



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 06:52 AM UTC

PDB ID : 8FXR / pdb_00008fxr
EMDB ID : EMD-29541
Title : Structure of neck with portal vertex of capsid of Agrobacterium phage Milano
Authors : Sonani, R.R.; Wang, F.; Esteves, N.C.; Kelly, R.J.; Sebastian, A.; Kreutzberger, M.A.B.; Leiman, P.G.; Scharf, B.E.; Egelman, E.H.
Deposited on : 2023-01-25
Resolution : 4.50 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

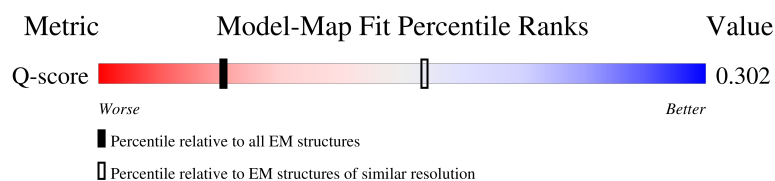
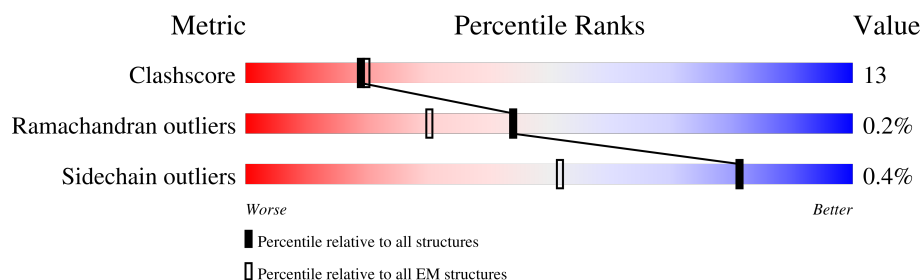
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2937 (4.00 - 5.00)

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 $\leq 5\%$. 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	a1	38	
1	a2	38	
1	a5	38	
1	a6	38	

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Mol	Chain	Length	Quality of chain
1	a7	38	
1	b1	38	
1	b2	38	
1	b5	38	
1	b6	38	
1	b7	38	
1	c	38	
1	d	38	
1	d1	38	
1	d2	38	
1	d5	38	
1	d6	38	
1	d7	38	
1	e	38	
1	e1	38	
1	e2	38	
1	e5	38	
1	e6	38	
1	e7	38	
1	f	38	
1	g	38	
2	a	202	
2	b	202	
2	h	202	
2	i	202	

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Mol	Chain	Length	Quality of chain
2	j	202	
2	k	202	
2	l	202	
2	m	202	
2	n	202	
2	o	202	
2	p	202	
2	q	202	
3	AM	141	
3	AN	141	
3	AO	141	
3	AP	141	
3	H	141	
3	I	141	
4	f1	217	
4	f2	217	
4	f5	217	
4	f6	217	
4	f7	217	
5	g1	465	
5	g2	465	
5	g5	465	
5	g6	465	
5	g7	465	
5	h1	465	

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Mol	Chain	Length	Quality of chain
5	h2	465	
5	h5	465	
5	h6	465	
5	h7	465	
5	k1	465	
5	k2	465	
5	k5	465	
5	k6	465	
5	k7	465	
5	n1	465	
5	n2	465	
5	n5	465	
5	n6	465	
5	n7	465	
5	o1	465	
5	o2	465	
5	o5	465	
5	o6	465	
5	o7	465	
5	r1	465	
5	r2	465	
5	r5	465	
5	r6	465	
5	r7	465	
6	l1	137	

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Mol	Chain	Length	Quality of chain
6	l2	137	
6	l5	137	
6	l6	137	
6	l7	137	
6	m1	137	
6	m2	137	
6	m5	137	
6	m6	137	
6	m7	137	
6	p1	137	
6	p2	137	
6	p5	137	
6	p6	137	
6	p7	137	
6	q1	137	
6	q2	137	
6	q5	137	
6	q6	137	
6	q7	137	
6	s1	137	
6	s2	137	
6	s5	137	
6	s6	137	
6	s7	137	
6	t1	137	

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Mol	Chain	Length	Quality of chain
6	t2	137	
6	t5	137	
6	t6	137	
6	t7	137	
6	u1	137	
6	u2	137	
6	u5	137	
6	u6	137	
6	u7	137	
6	v1	137	
6	v2	137	
6	v5	137	
6	v6	137	
6	v7	137	
7	03	230	
7	13	230	
7	23	230	
7	33	230	
7	43	230	
7	53	230	
7	63	230	
7	73	230	
7	83	230	
7	93	230	
7	A3	230	

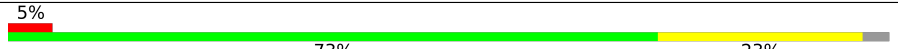
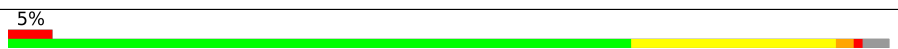
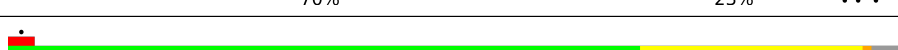
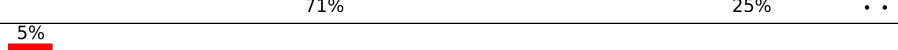
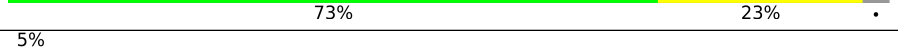
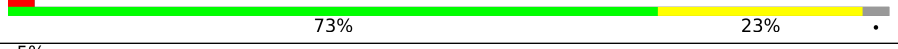
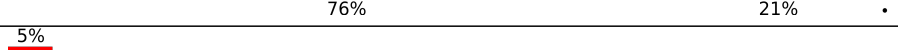
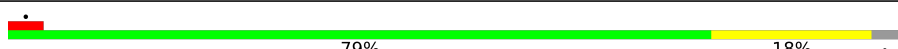
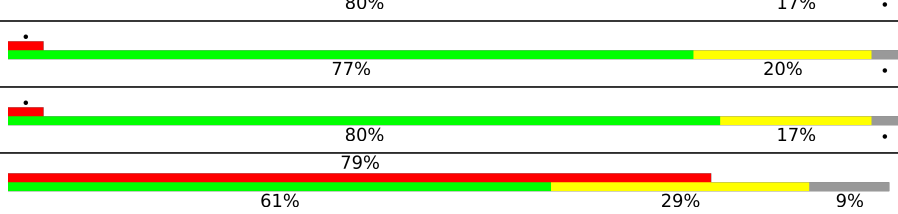
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Mol	Chain	Length	Quality of chain
7	B3	230	
7	C3	230	
7	D3	230	
7	E3	230	
7	F3	230	
7	G3	230	
7	J3	230	
7	K3	230	
7	L3	230	
7	M3	230	
7	N3	230	
7	O3	230	
7	P3	230	
7	Q3	230	
7	R3	230	
7	S3	230	
7	T3	230	
7	U3	230	
7	V3	230	
7	W3	230	
7	X3	230	
7	Y3	230	
7	Z3	230	
7	a3	230	
7	b3	230	

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Mol	Chain	Length	Quality of chain
7	c3	230	
7	d3	230	
7	e3	230	
7	f3	230	
7	g3	230	
7	h3	230	
7	i3	230	
7	j3	230	
7	k3	230	
7	l3	230	
7	m3	230	
7	n3	230	
7	o3	230	
7	p3	230	
7	q3	230	
7	r3	230	
7	s3	230	
7	t3	230	
7	u3	230	
7	v3	230	
7	w3	230	
7	x3	230	
7	y3	230	
7	z3	230	
8	AA	420	

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Mol	Chain	Length	Quality of chain
8	AB	420	
8	AC	420	
8	AD	420	
8	AE	420	
8	AF	420	
8	AG	420	
8	AH	420	
8	AI	420	
8	AJ	420	
8	AK	420	
8	AL	420	
9	AQ	178	
9	AR	178	
9	AS	178	
9	AT	178	
9	AW	178	
9	AX	178	
10	AU	136	
10	AV	136	
10	AY	136	
10	AZ	136	
10	Aa	136	
10	Ab	136	

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 287884 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Linking protein 2, gp128.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	c	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	d	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	f	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	g	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	a1	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	b1	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	d1	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e1	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	a2	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	b2	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	d2	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e2	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	a5	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	b5	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	d5	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e5	28	Total	C	N	O	S	0	0
			209	131	40	33	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	a6	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	b6	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	d6	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e6	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	a7	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	b7	28	Total	C	N	O	S	0	0
			209	131	40	33	5		
1	d7	34	Total	C	N	O	S	0	0
			246	155	46	40	5		
1	e7	28	Total	C	N	O	S	0	0
			209	131	40	33	5		

- Molecule 2 is a protein called Neck 1 protein, gp14.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	a	176	Total	C	N	O	S	0	0
			1357	862	243	248	4		
2	b	195	Total	C	N	O	S	0	0
			1509	955	269	279	6		
2	l	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		
2	n	195	Total	C	N	O	S	0	0
			1509	955	269	279	6		
2	o	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		
2	p	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		
2	q	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		
2	h	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		
2	i	193	Total	C	N	O	S	0	0
			1487	943	261	277	6		
2	j	195	Total	C	N	O	S	0	0
			1509	955	269	279	6		
2	k	173	Total	C	N	O	S	0	0
			1333	848	239	242	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	m	192	Total	C	N	O	S	0	0
			1486	939	266	275	6		

- Molecule 3 is a protein called Neck 2 protein, gp15.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	H	125	Total	C	N	O	S	0	0
			997	621	183	185	8		
3	I	125	Total	C	N	O	S	0	0
			997	621	183	185	8		
3	AM	125	Total	C	N	O	S	0	0
			997	621	183	185	8		
3	AP	125	Total	C	N	O	S	0	0
			997	621	183	185	8		
3	AN	125	Total	C	N	O	S	0	0
			997	621	183	185	8		
3	AO	125	Total	C	N	O	S	0	0
			997	621	183	185	8		

- Molecule 4 is a protein called Linking protein 1, gp16.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	f1	20	Total	C	N	O	S	0	0
			140	88	27	23	2		
4	f2	20	Total	C	N	O	S	0	0
			140	88	27	23	2		
4	f5	20	Total	C	N	O	S	0	0
			140	88	27	23	2		
4	f6	20	Total	C	N	O	S	0	0
			140	88	27	23	2		
4	f7	20	Total	C	N	O	S	0	0
			140	88	27	23	2		

- Molecule 5 is a protein called Major capsid protein, gp9.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	g1	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	h1	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	k1	288	Total	C	N	O	S	0	0
			2257	1430	386	425	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	n1	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	o1	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	r1	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	g2	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	h2	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	k2	288	Total	C	N	O	S	0	0
			2257	1430	386	425	16		
5	n2	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	o2	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	r2	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	g5	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	h5	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	k5	288	Total	C	N	O	S	0	0
			2257	1430	386	425	16		
5	n5	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	o5	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	r5	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	g6	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	h6	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	k6	288	Total	C	N	O	S	0	0
			2257	1430	386	425	16		
5	n6	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	o6	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	r6	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	g7	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	h7	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	k7	288	Total	C	N	O	S	0	0
			2257	1430	386	425	16		
5	n7	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	o7	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		
5	r7	291	Total	C	N	O	S	0	0
			2286	1452	389	429	16		

- Molecule 6 is a protein called Minor capsid protein, gp10.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	l1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	m1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	p1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	q1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	s1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	t1	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	u1	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	v1	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	l2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	m2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	p2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	q2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	s2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	t2	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	u2	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	v2	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	l5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	m5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	p5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	q5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	s5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	t5	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	u5	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	v5	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	l6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	m6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	p6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	q6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	s6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	t6	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	u6	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	v6	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	l7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	m7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	p7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	q7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	s7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	t7	137	Total	C	N	O	S	0	0
			1023	655	160	201	7		
6	u7	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		
6	v7	136	Total	C	N	O	S	0	0
			1011	649	156	199	7		

- Molecule 7 is a protein called Collar sheath protein, gp13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	J3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	K3	230	Total	C	N	O	S	0	0
			1723	1090	287	337	9		
7	L3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	M3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	N3	230	Total	C	N	O	S	0	0
			1723	1090	287	337	9		
7	O3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	P3	222	Total	C	N	O	S	0	0
			1673	1062	278	325	8		
7	Q3	230	Total	C	N	O	S	0	0
			1723	1090	287	337	9		
7	R3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	S3	222	Total	C	N	O	S	0	0
			1673	1062	278	325	8		
7	T3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	U3	221	Total	C	N	O	S	0	0
			1668	1059	277	324	8		
7	V3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	W3	230	Total	C	N	O	S	0	0
			1723	1090	287	337	9		
7	X3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	Y3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	Z3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	a3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	b3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	c3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	d3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	e3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	f3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	g3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	h3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	i3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	j3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	k3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	l3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	m3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	n3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	o3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	p3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	q3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	r3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	s3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	t3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	u3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	v3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	w3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	x3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	y3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	z3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	13	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	23	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	33	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	43	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	53	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	63	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	73	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	83	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	93	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	03	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	A3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0
7	B3	223	Total 1679	C 1065	N 279	O 327	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	C3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	D3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	E3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	F3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		
7	G3	223	Total	C	N	O	S	0	0
			1679	1065	279	327	8		

- Molecule 8 is a protein called Portal protein, gp7.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AA	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AB	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AC	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AD	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AE	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AF	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AG	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AH	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AI	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AJ	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AK	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		
8	AL	381	Total	C	N	O	S	0	0
			2938	1860	504	560	14		

- Molecule 9 is a protein called Tail-terminator protein, gp18.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AQ	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		
9	AR	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		
9	AS	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		
9	AT	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		
9	AW	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		
9	AX	155	Total	C	N	O	S	0	0
			1251	798	207	243	3		

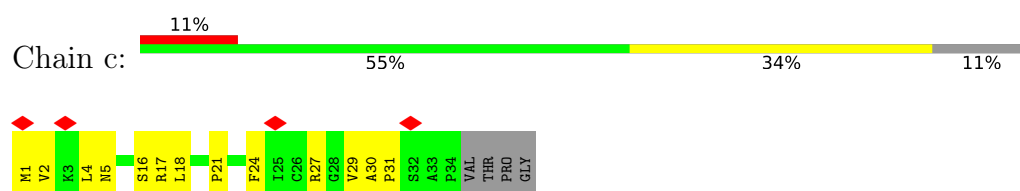
- Molecule 10 is a protein called Tail-tube, gp21.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AU	128	Total	C	N	O	S	0	0
			977	606	162	202	7		
10	AZ	128	Total	C	N	O	S	0	0
			977	606	162	202	7		
10	AV	128	Total	C	N	O	S	0	0
			977	606	162	202	7		
10	Aa	128	Total	C	N	O	S	0	0
			977	606	162	202	7		
10	AY	128	Total	C	N	O	S	0	0
			977	606	162	202	7		
10	Ab	128	Total	C	N	O	S	0	0
			977	606	162	202	7		

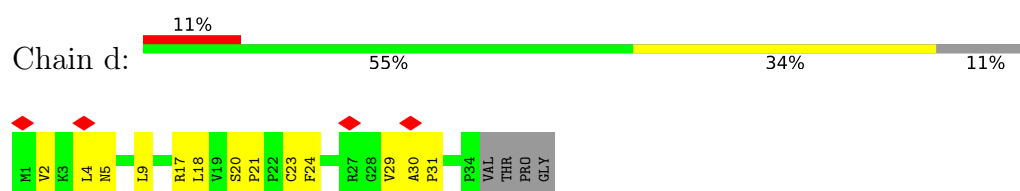
3 Residue-property plots [i](#)

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.

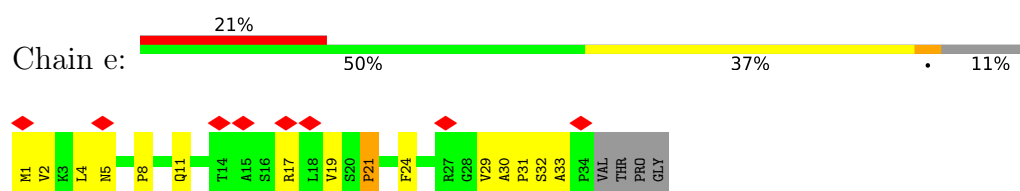
- Molecule 1: Linking protein 2, gp128



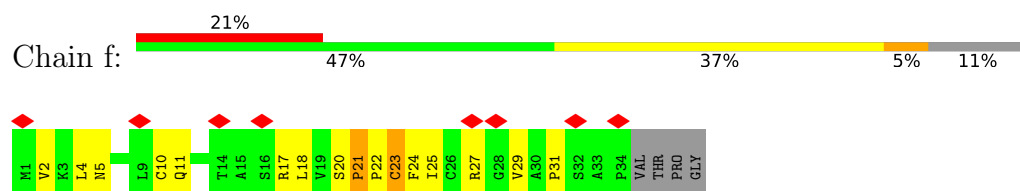
- Molecule 1: Linking protein 2, gp128



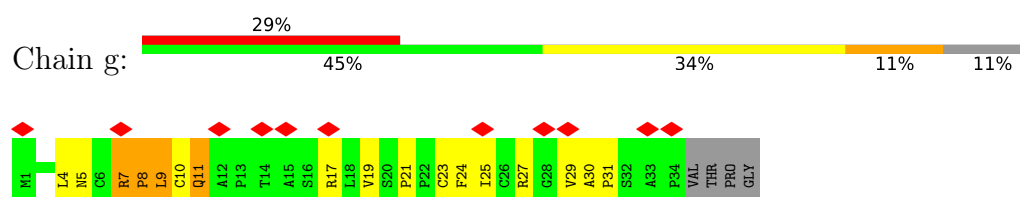
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128



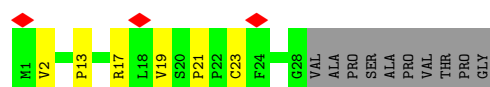
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128



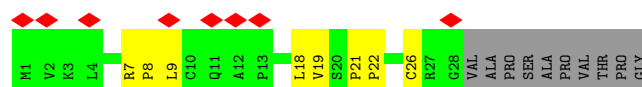
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128



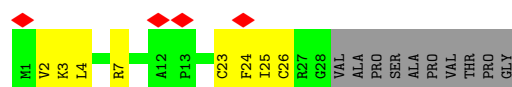
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128

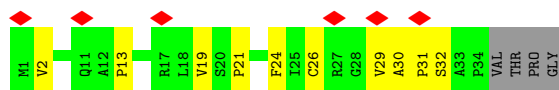


- Molecule 1: Linking protein 2, gp128

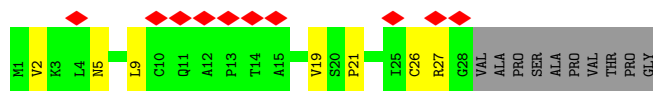


- Molecule 1: Linking protein 2, gp128

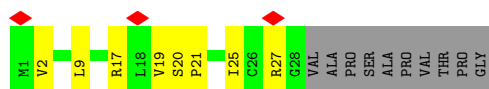




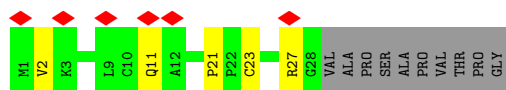
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128



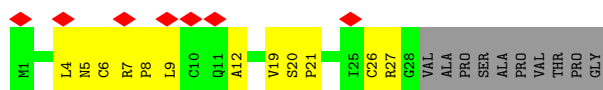
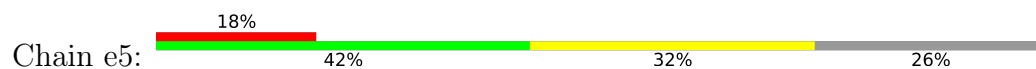
- Molecule 1: Linking protein 2, gp128



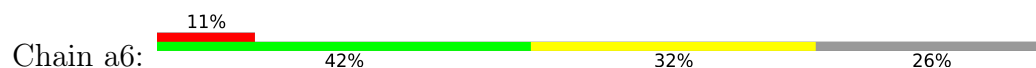
- Molecule 1: Linking protein 2, gp128



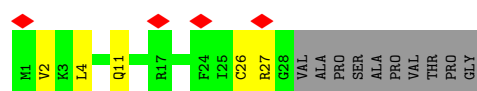
- Molecule 1: Linking protein 2, gp128



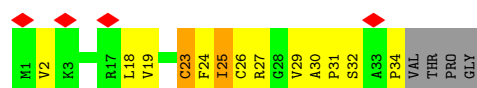
- Molecule 1: Linking protein 2, gp128



- Molecule 1: Linking protein 2, gp128



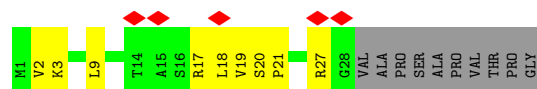
- Molecule 1: Linking protein 2, gp128



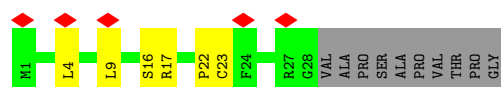
- Molecule 1: Linking protein 2, gp128



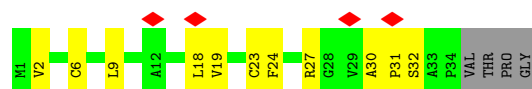
- Molecule 1: Linking protein 2, gp128



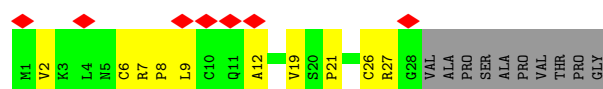
- Molecule 1: Linking protein 2, gp128



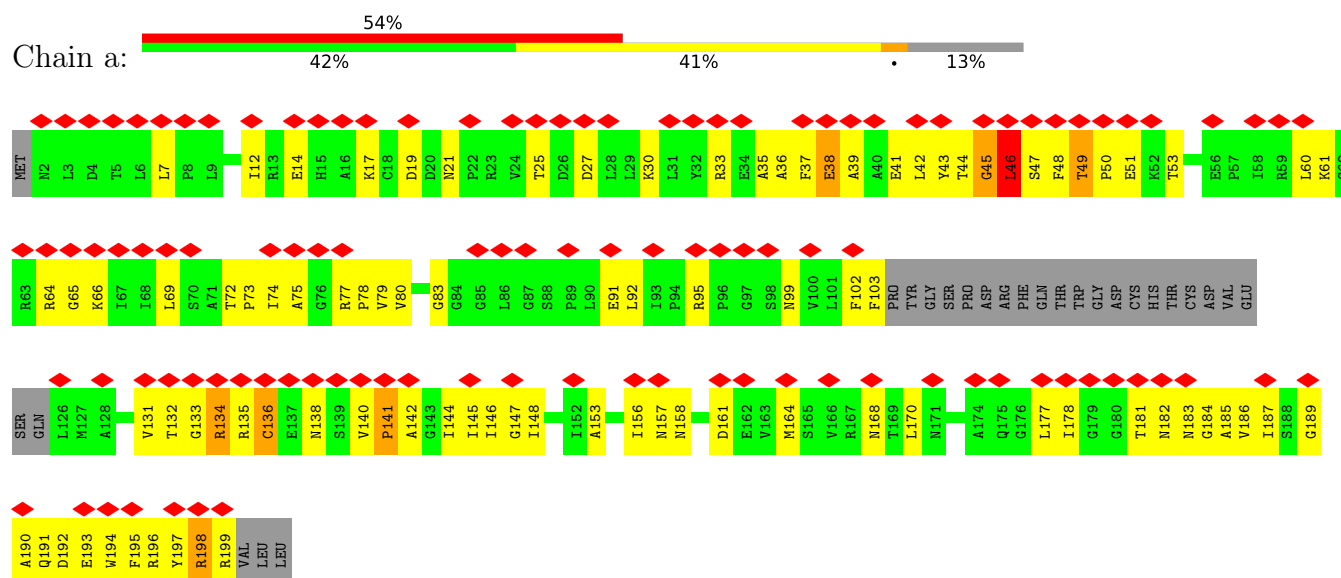
- Molecule 1: Linking protein 2, gp128



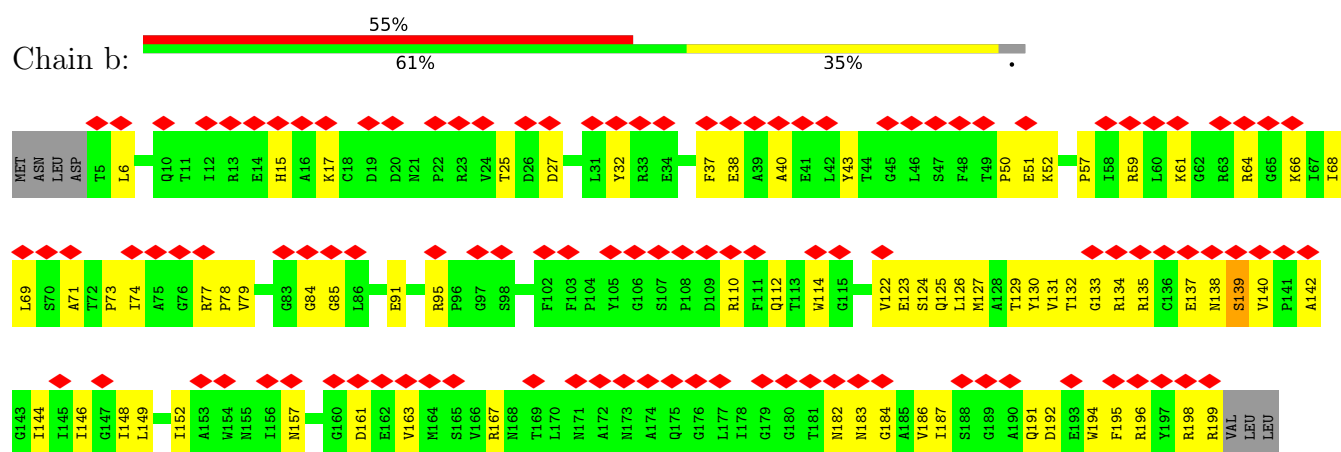
- Molecule 1: Linking protein 2, gp128



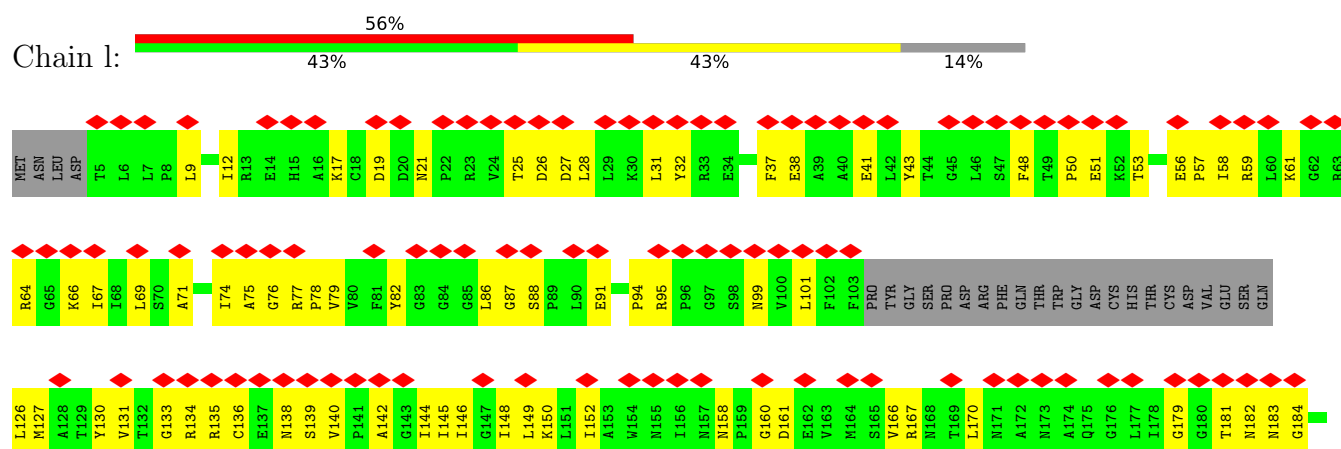
- Molecule 2: Neck 1 protein, gp14



- Molecule 2: Neck 1 protein, gp14

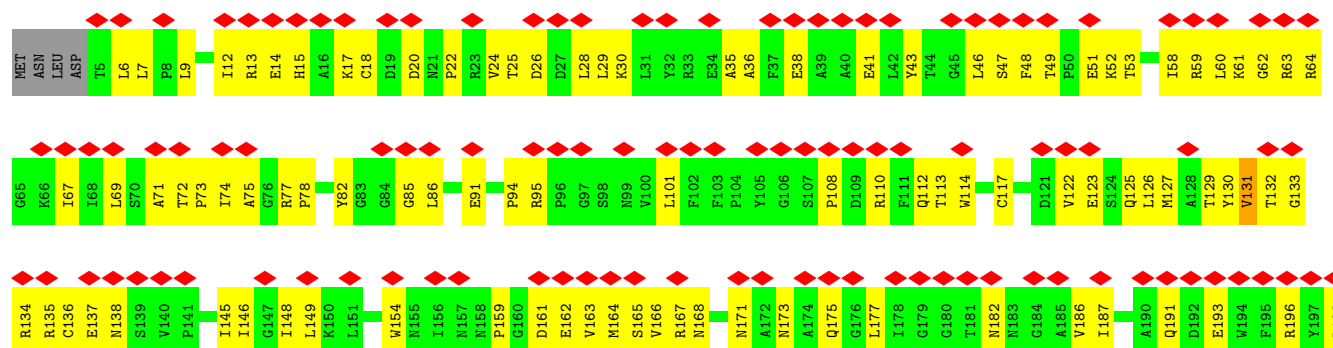


- Molecule 2: Neck 1 protein, gp14

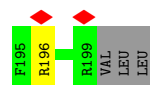
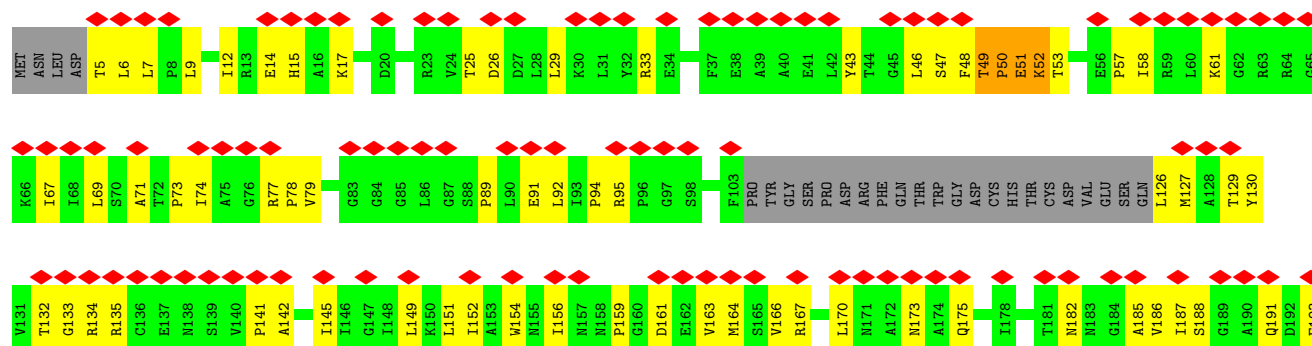




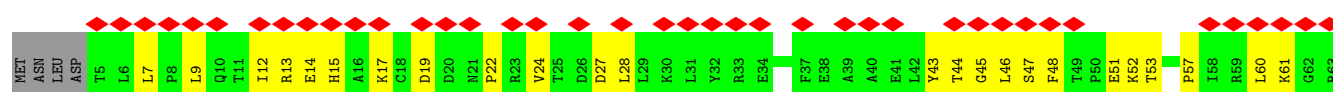
• Molecule 2: Neck 1 protein, gp14

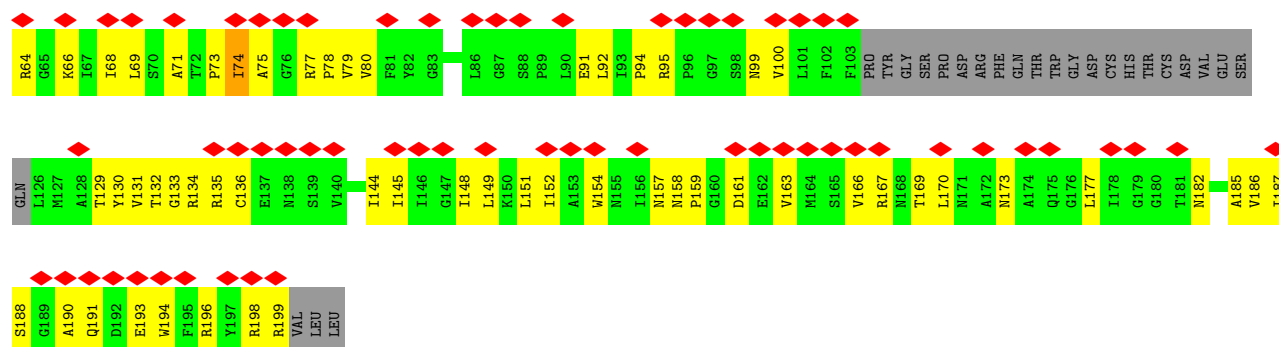


• Molecule 2: Neck 1 protein, gp14

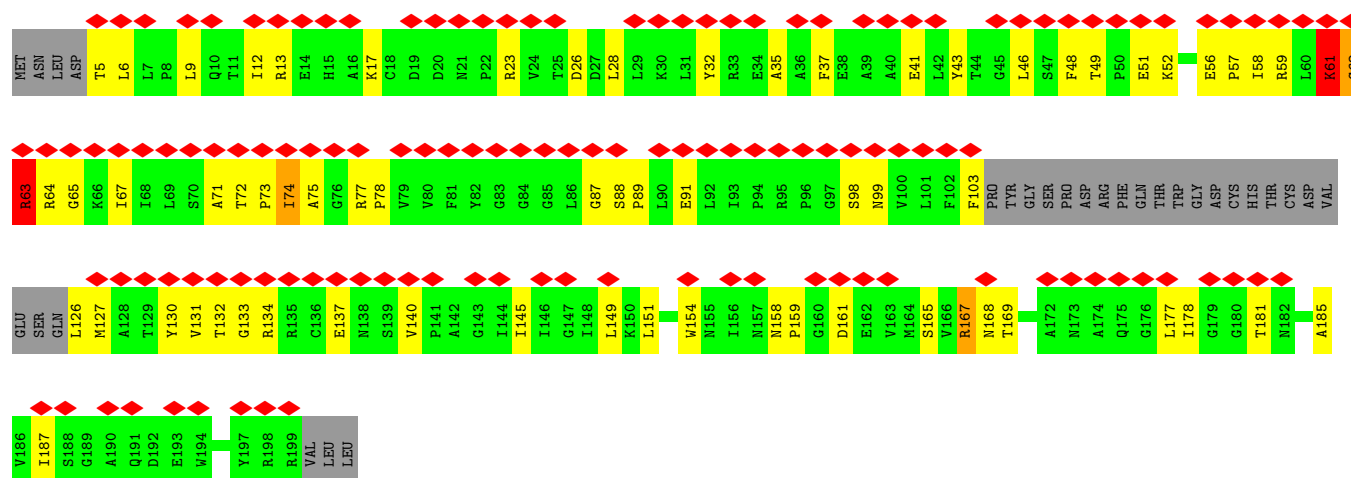


• Molecule 2: Neck 1 protein, gp14

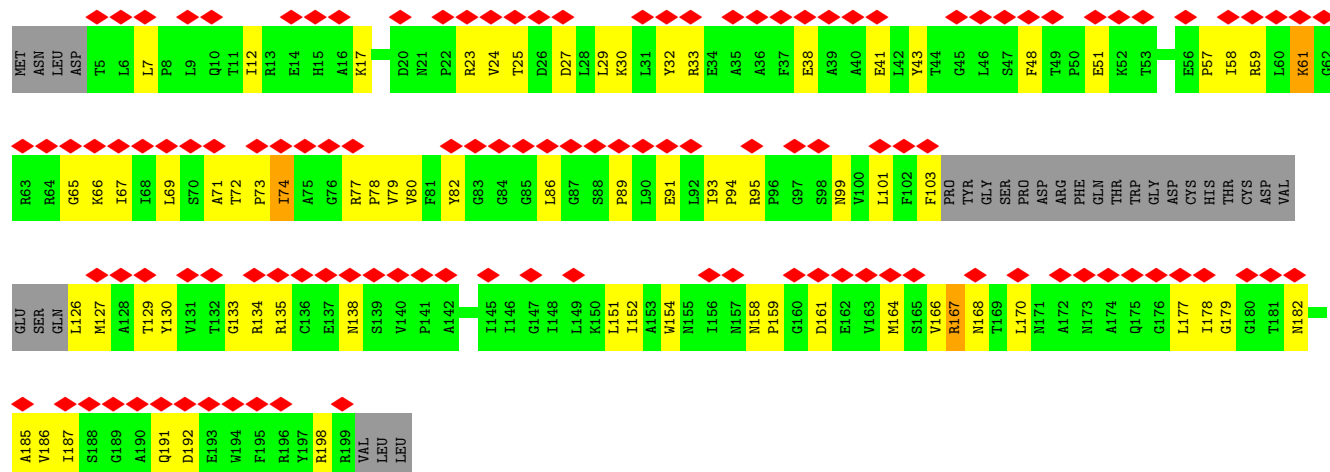




• Molecule 2: Neck 1 protein, gp14



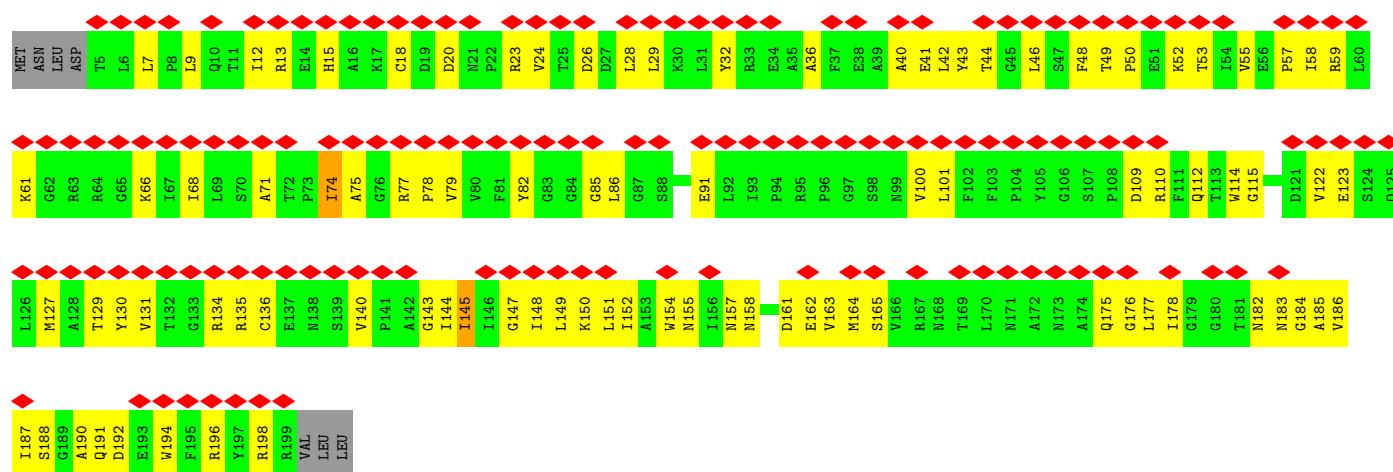
• Molecule 2: Neck 1 protein, gp14



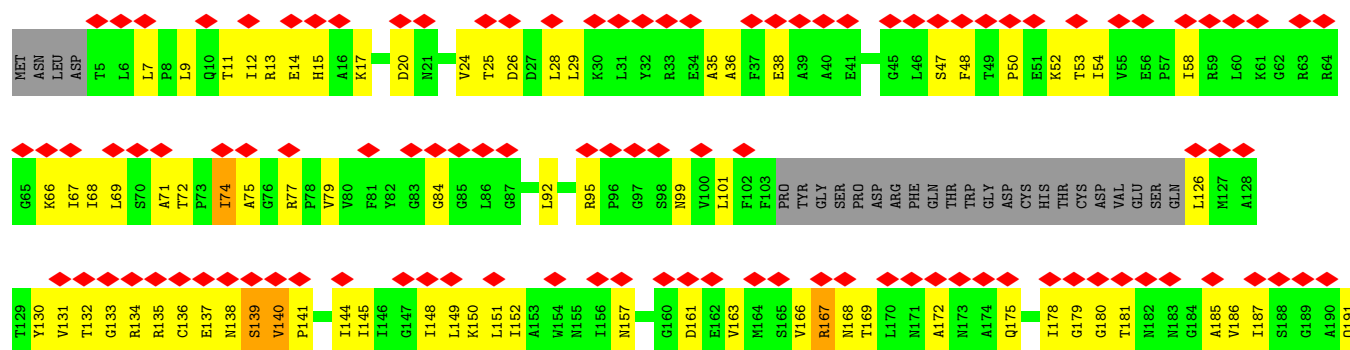
• Molecule 2: Neck 1 protein, gp14



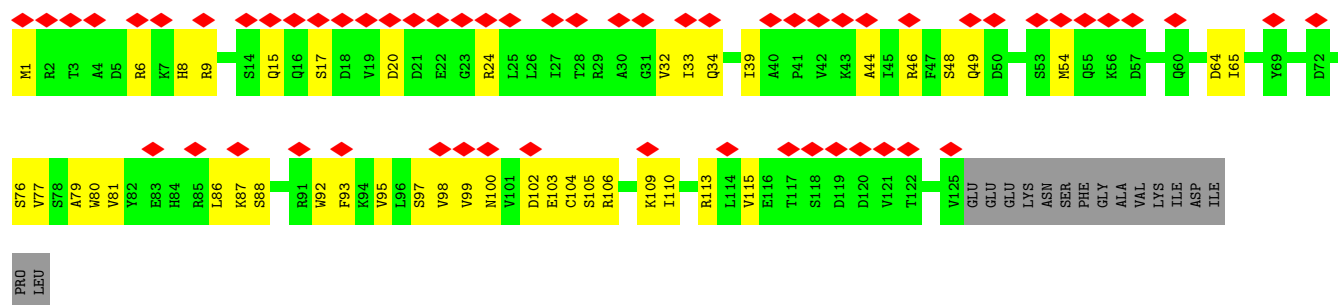
• Molecule 2: Neck 1 protein, gp14



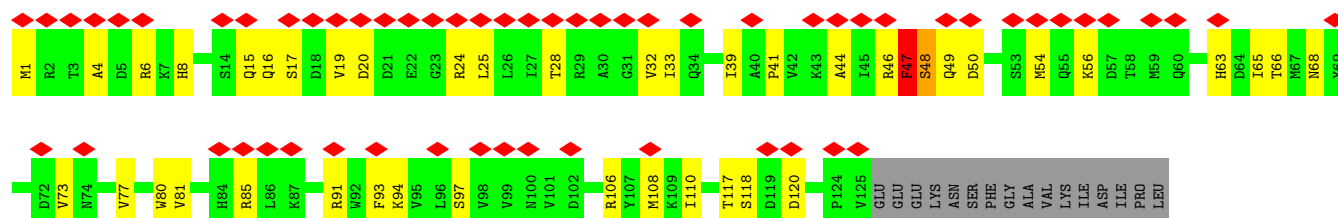
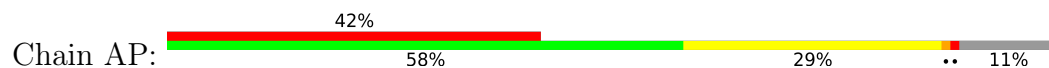
• Molecule 2: Neck 1 protein, gp14



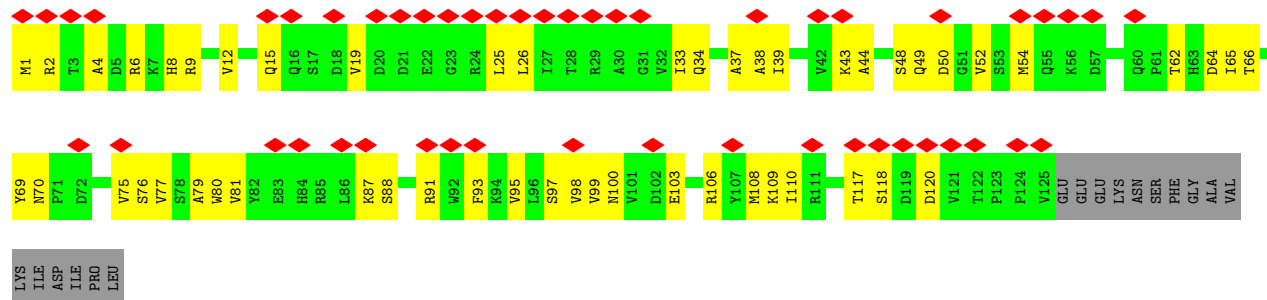




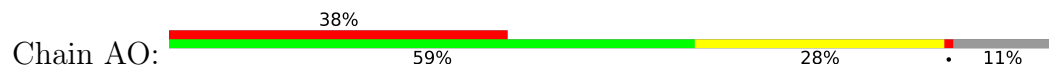
- Molecule 3: Neck 2 protein, gp15



- Molecule 3: Neck 2 protein, gp15



- Molecule 3: Neck 2 protein, gp15



- Molecule 4: Linking protein 1, gp16

[illegible]

Chain f2: 6% 6% 91%

[illegible]

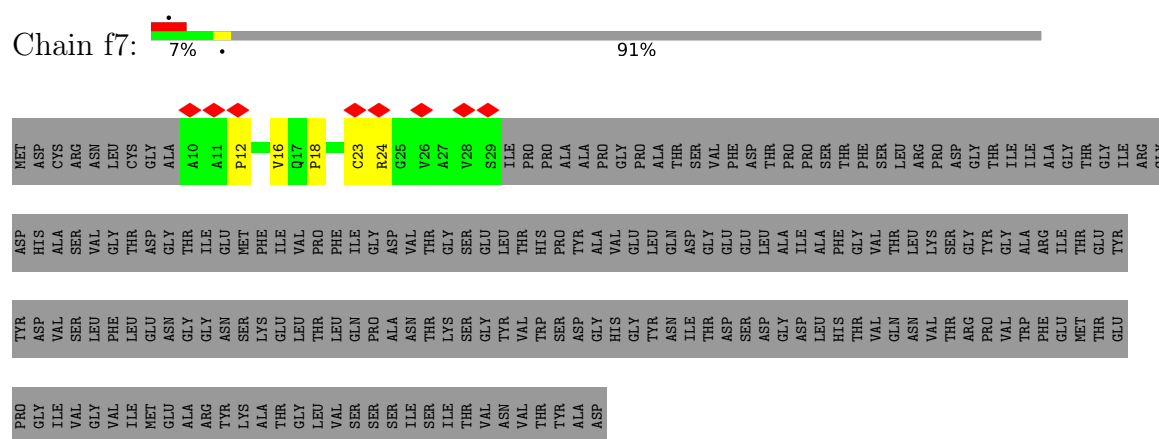
Chain f5: 5%
6% 91%

[illegible]

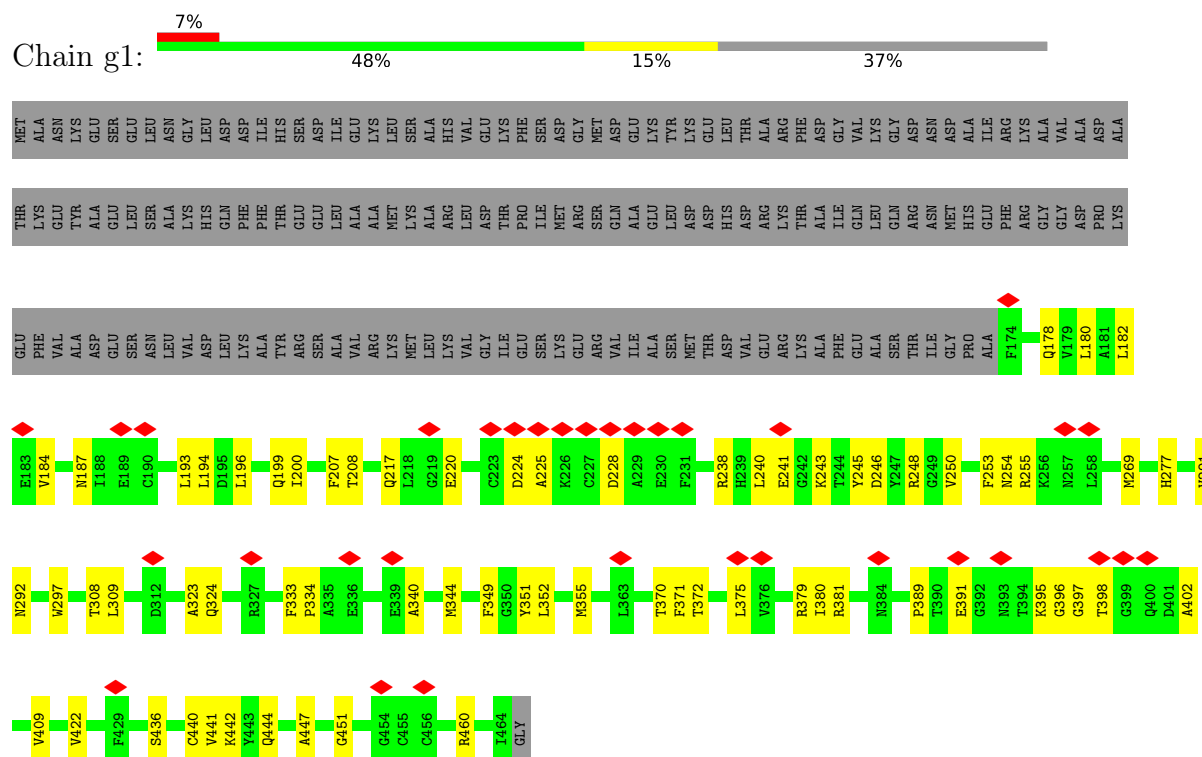
Chain f6:

[illegible]

- Molecule 4: Linking protein 1, gp16

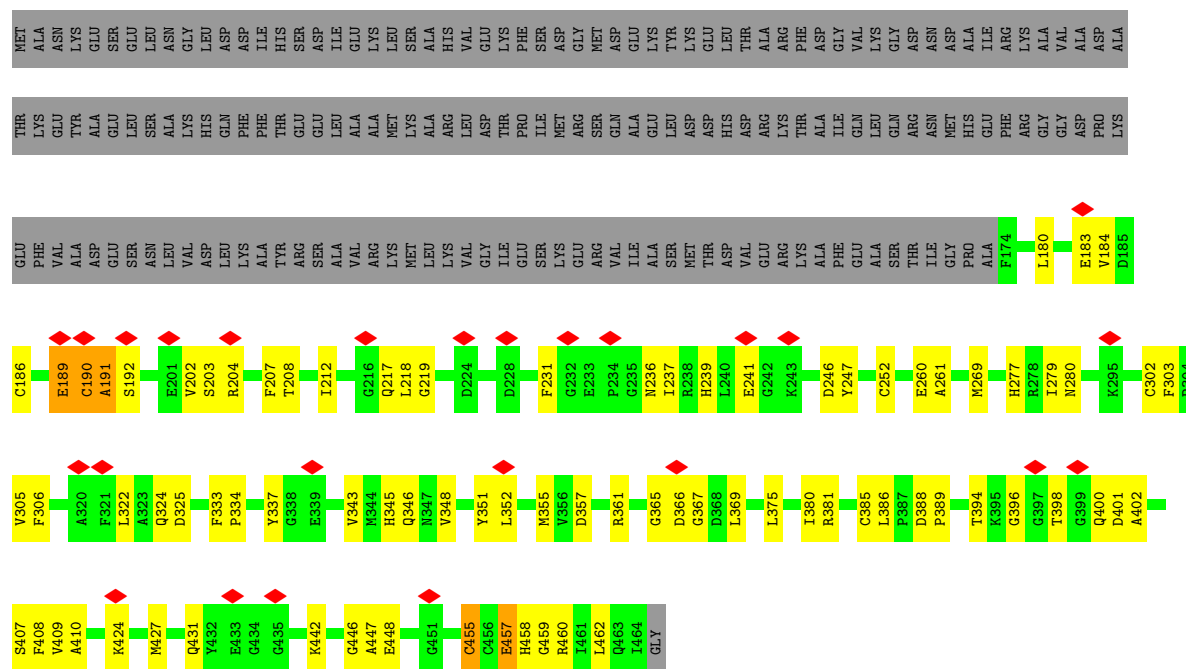


- Molecule 5: Major capsid protein, gp9

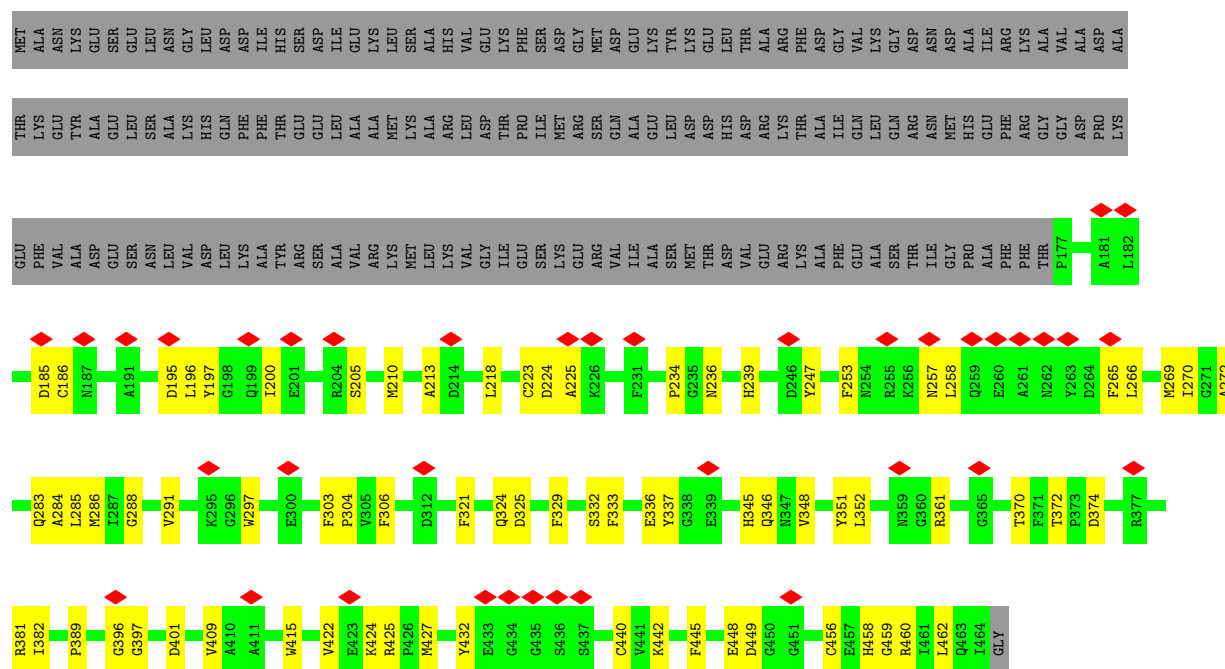


- Molecule 5: Major capsid protein, gp9

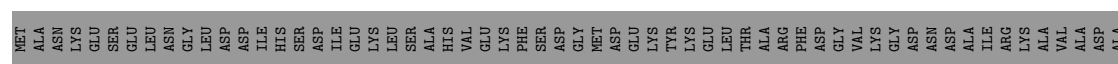


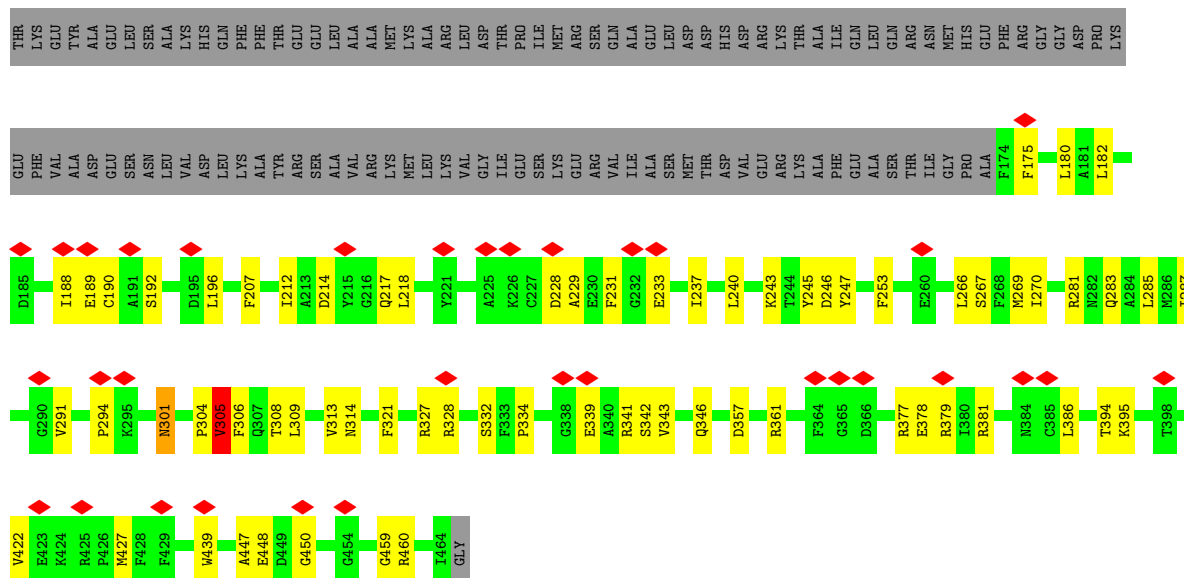


• Molecule 5: Major capsid protein, gp9

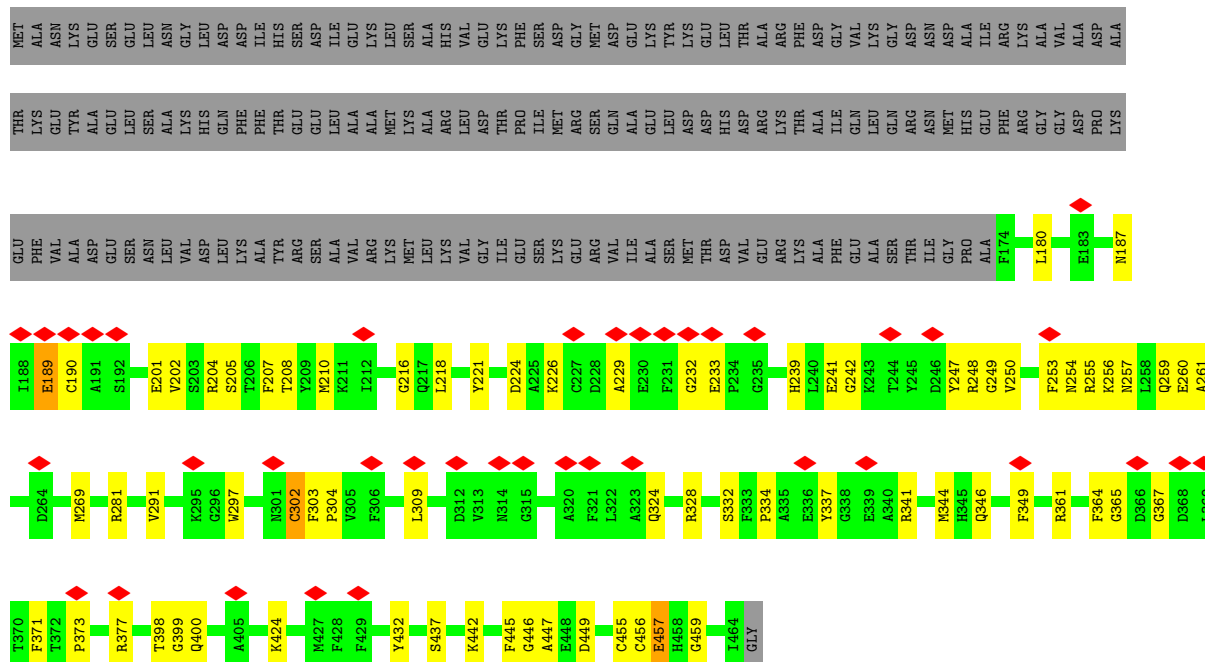


• Molecule 5: Major capsid protein, gp9

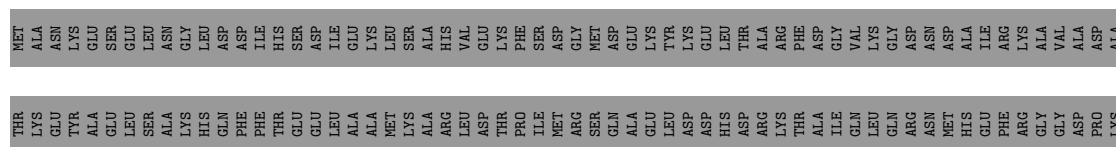


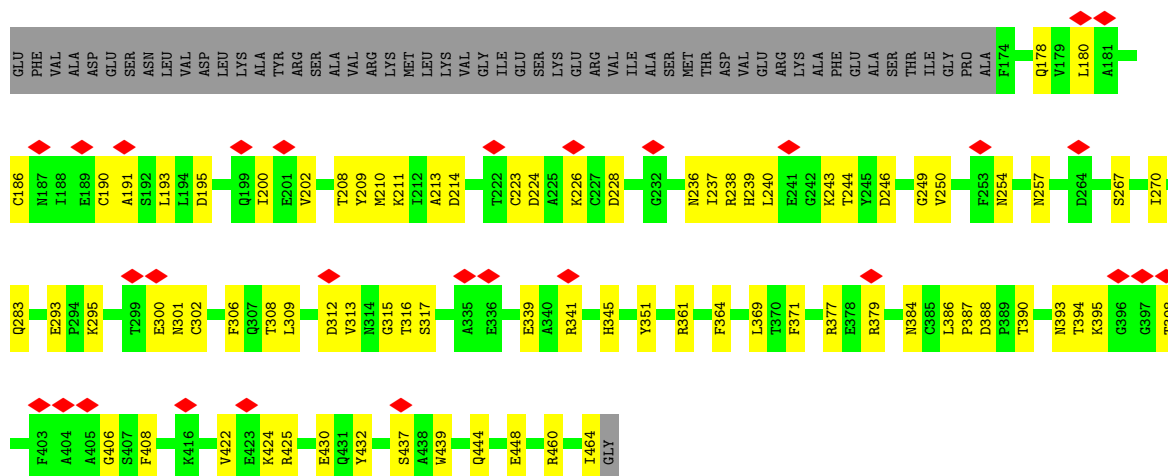


• Molecule 5: Major capsid protein, gp9

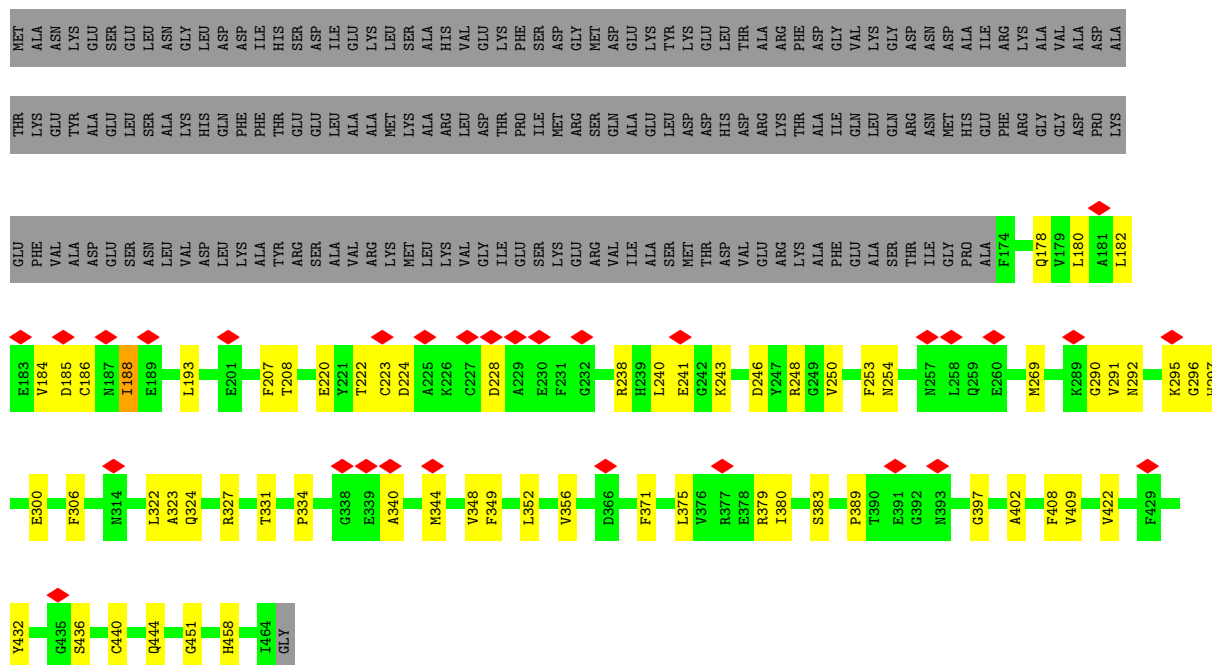


• Molecule 5: Major capsid protein, gp9

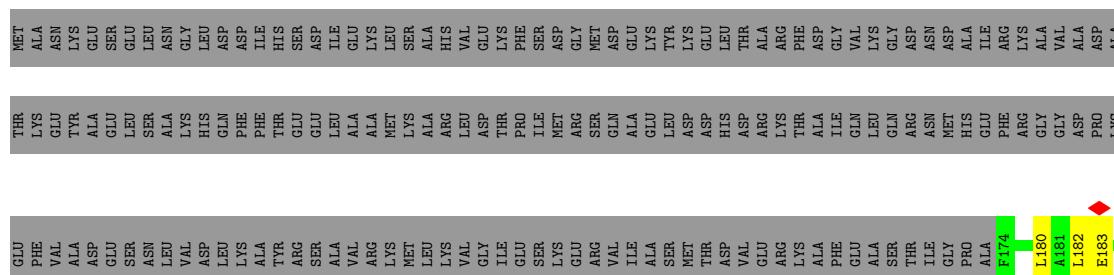


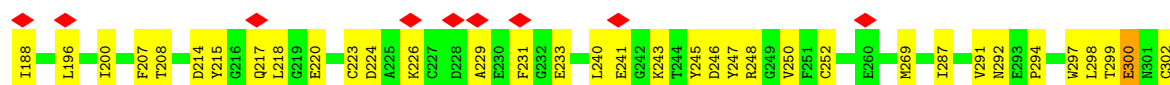


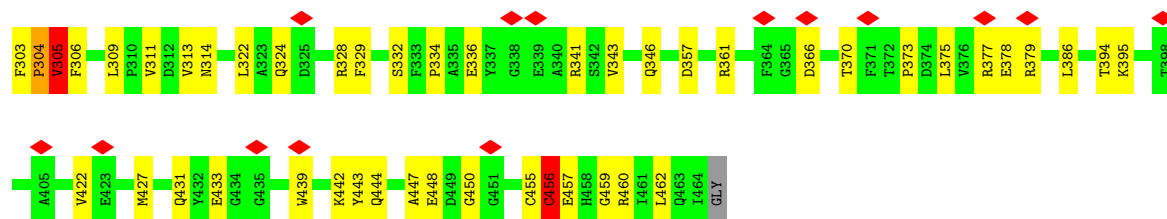
• Molecule 5: Major capsid protein, gp9



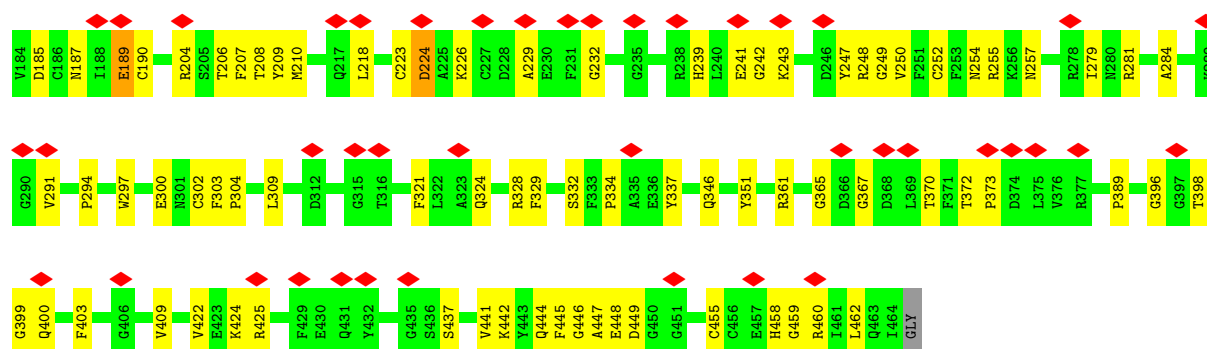
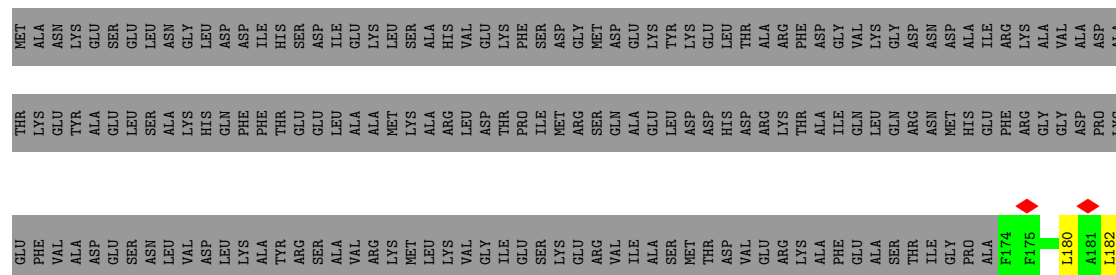
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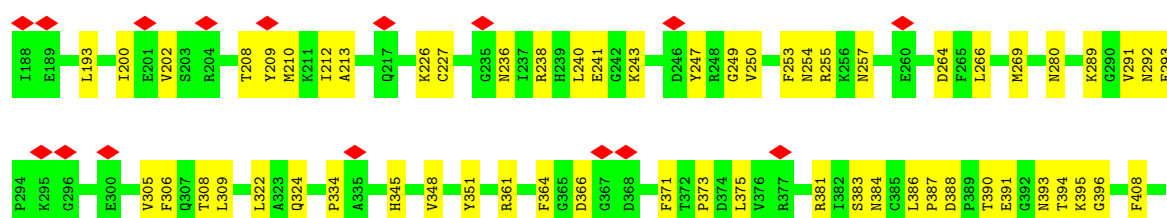
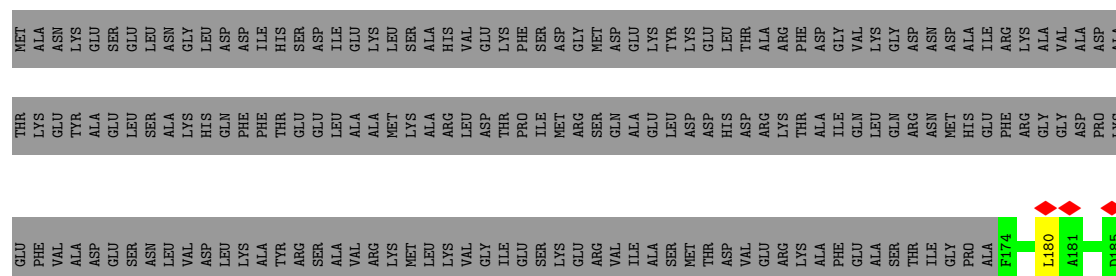




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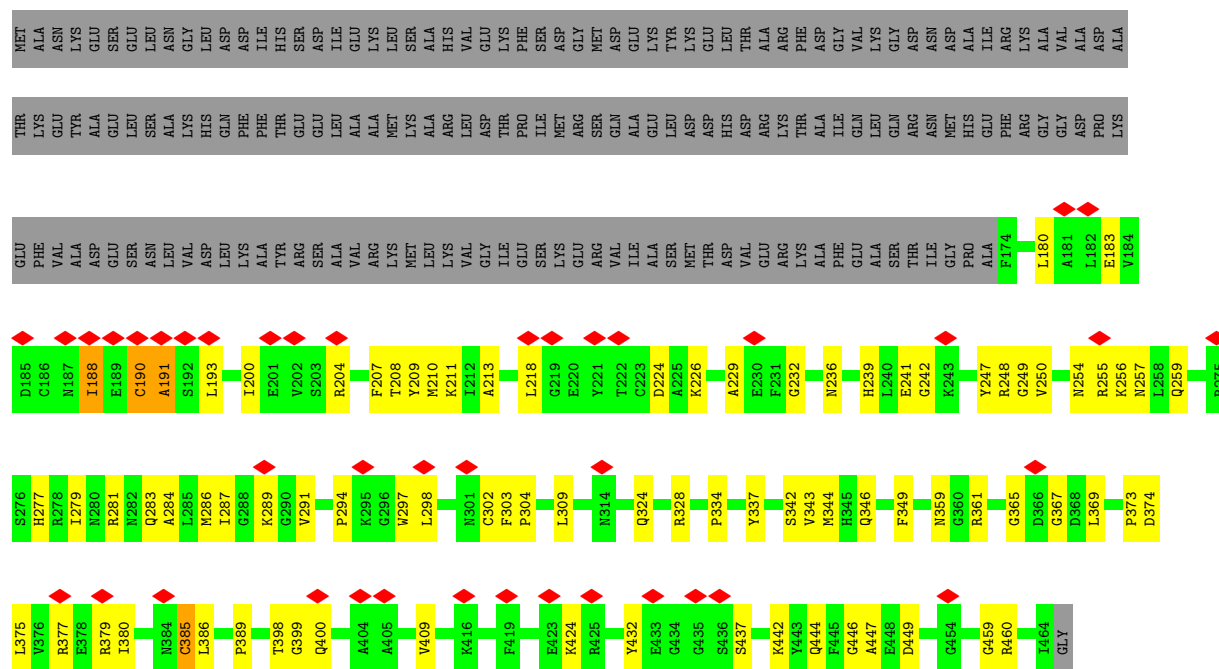


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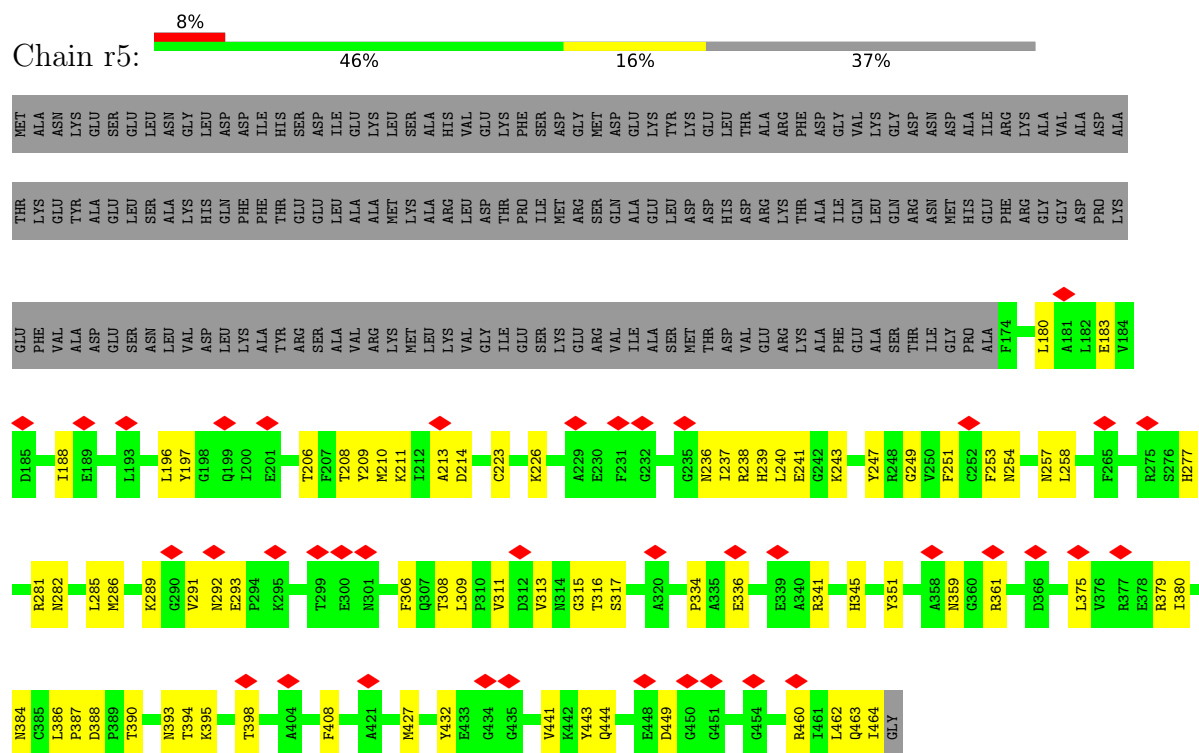


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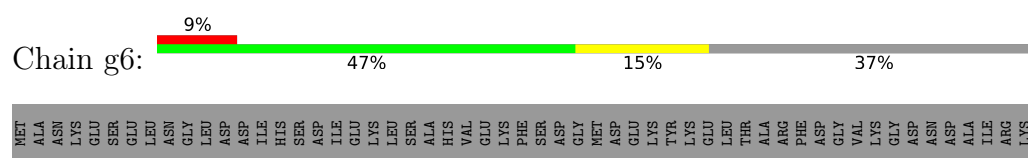


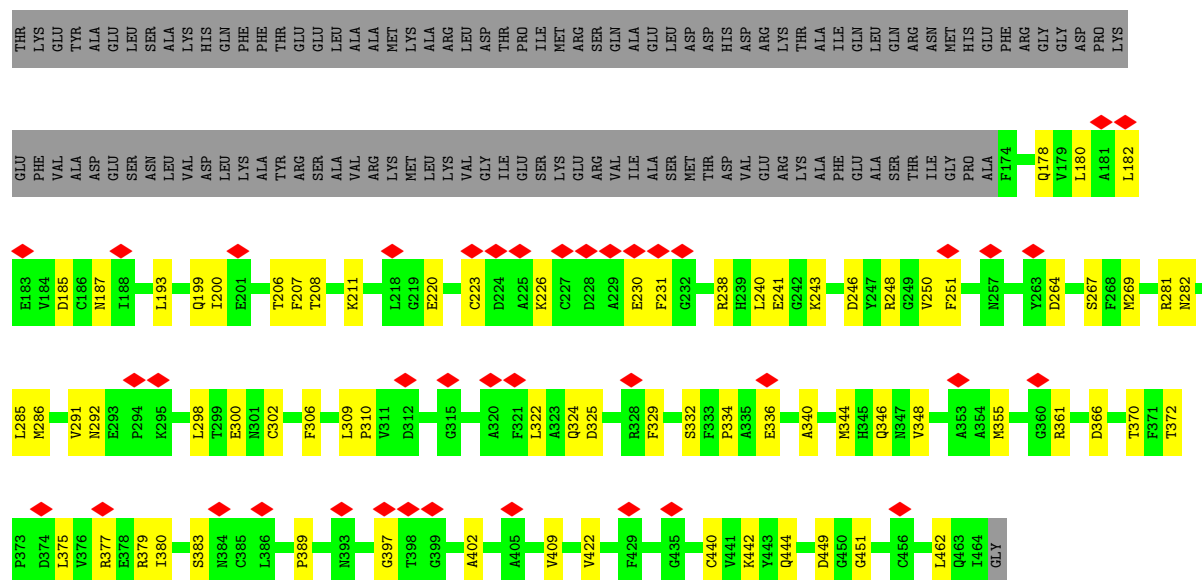


• Molecule 5: Major capsid protein, gp9

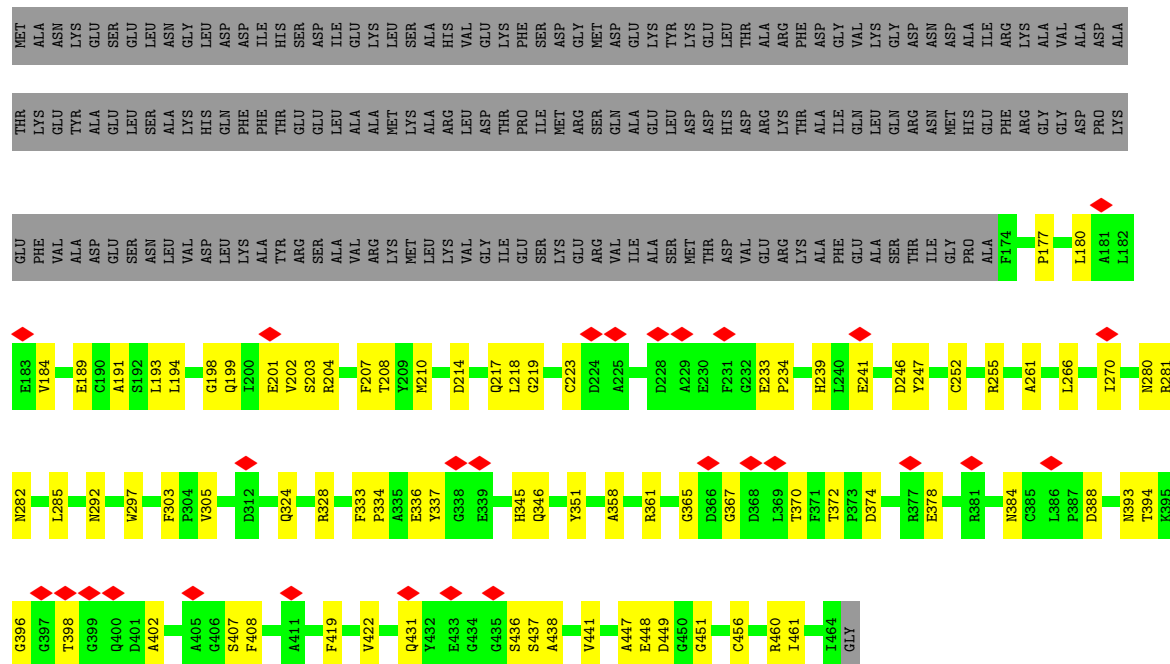


• Molecule 5: Major capsid protein, gp9

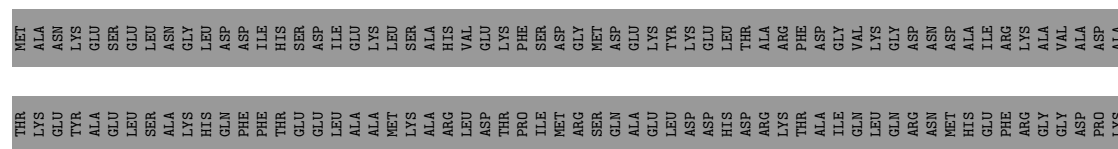


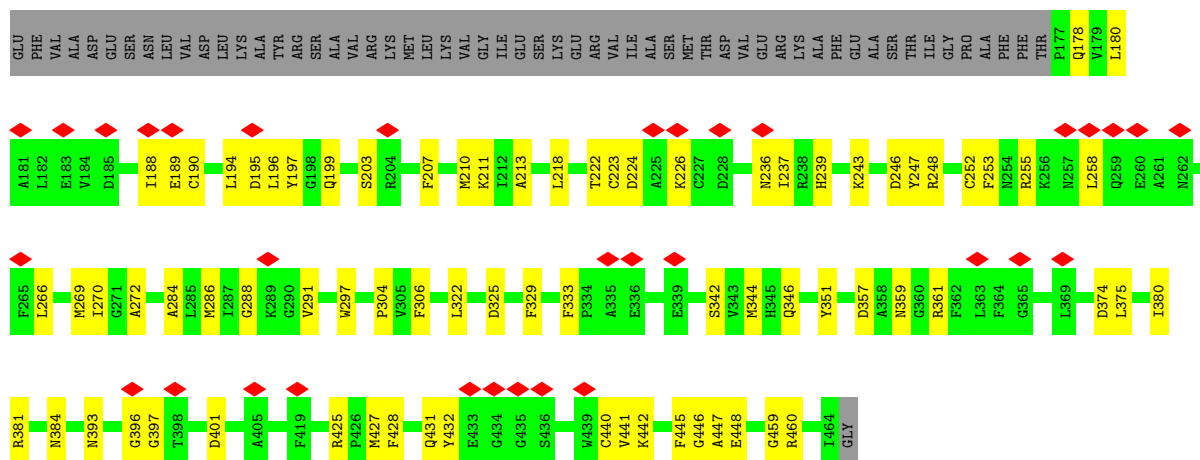


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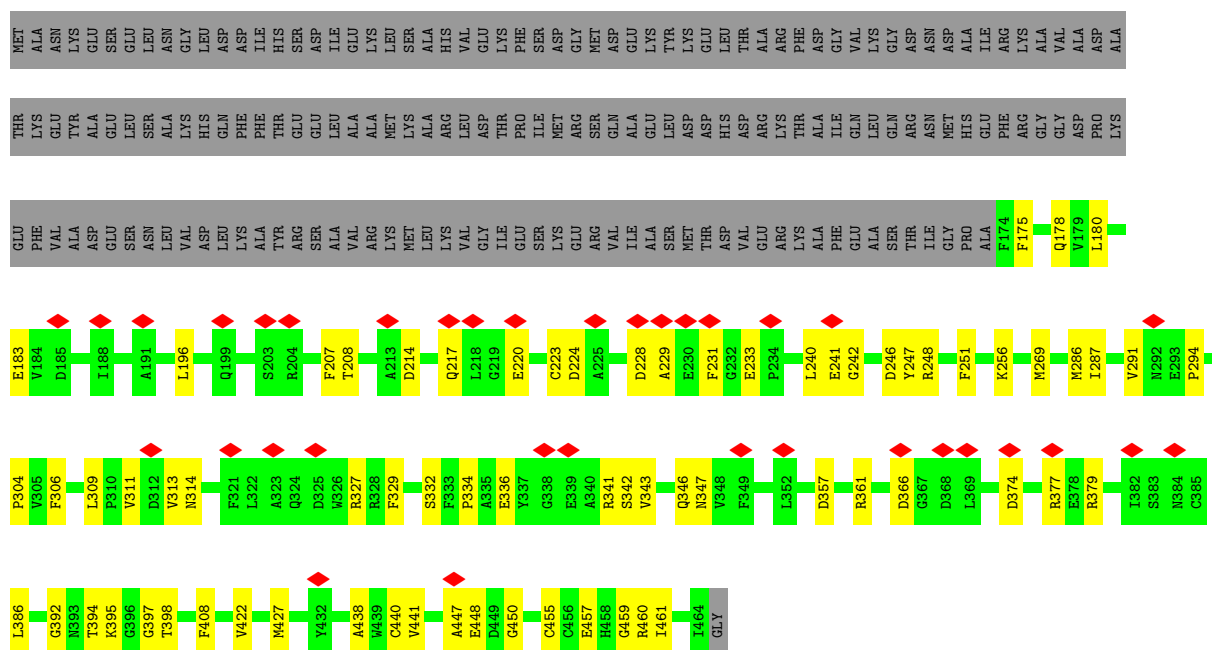


• Molecule 5: Major capsid protein, gp9

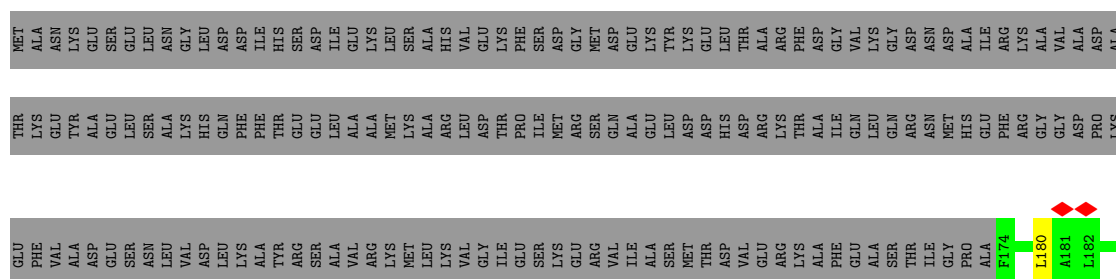


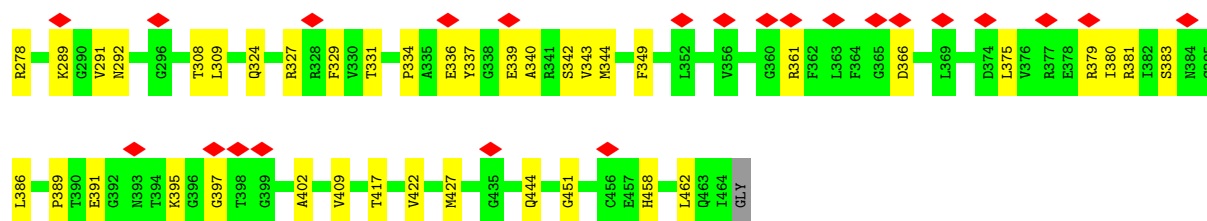


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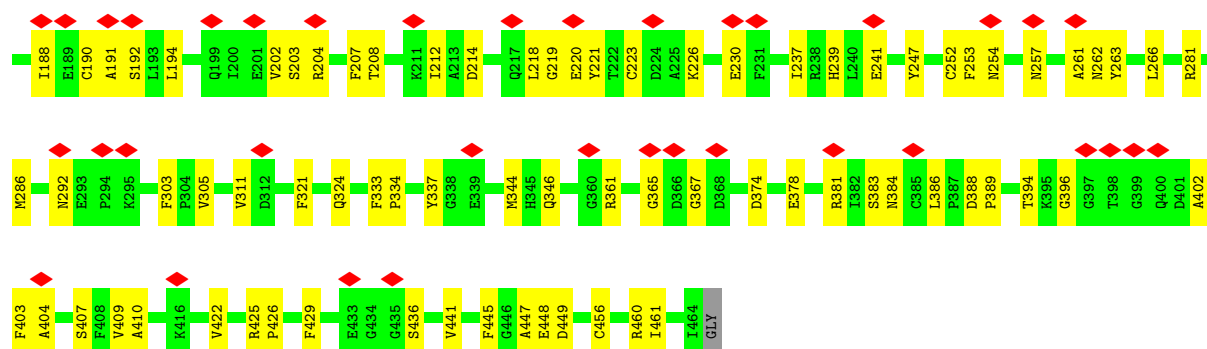
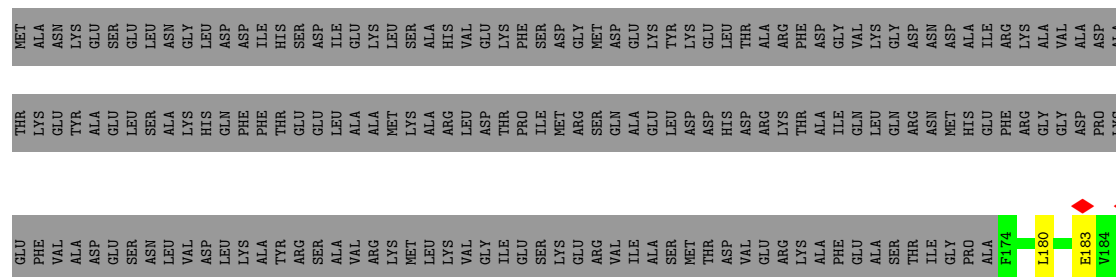


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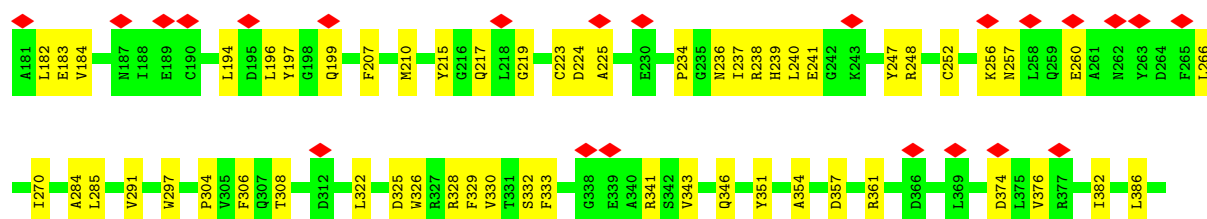
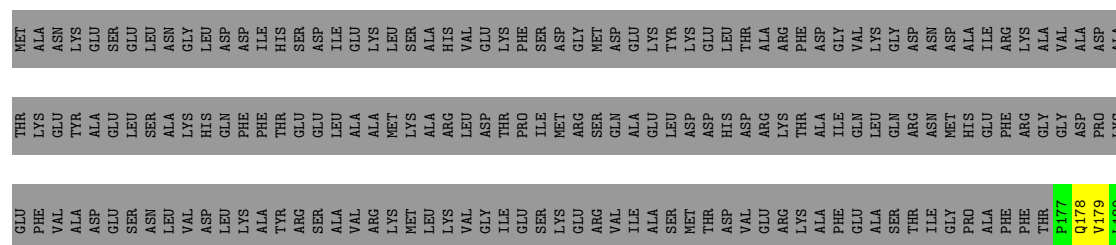




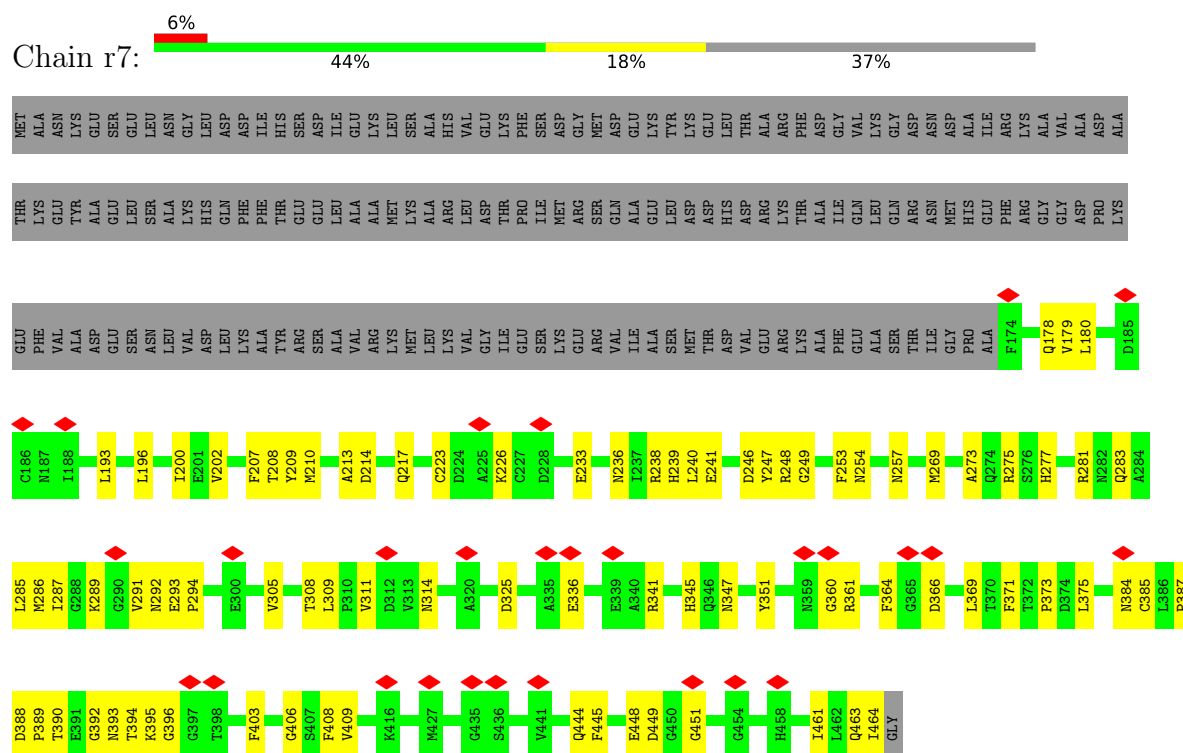
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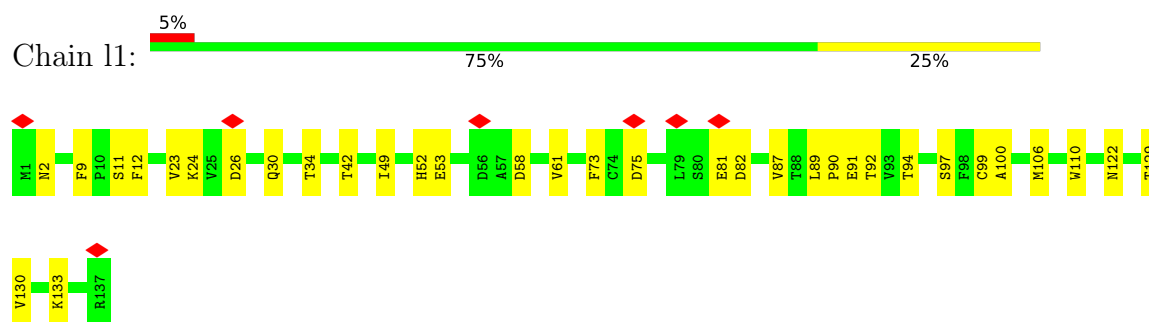
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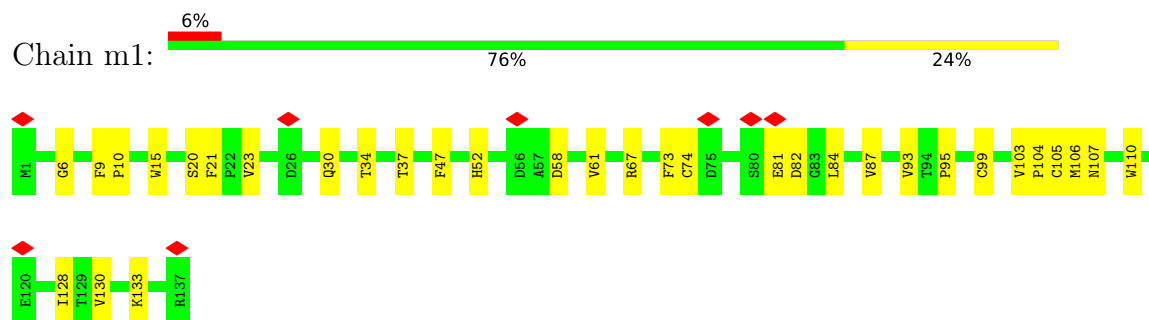
- Molecule 5: Major capsid protein, gp9



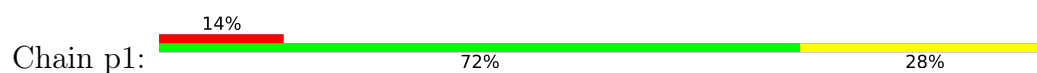
- Molecule 6: Minor capsid protein, gp10

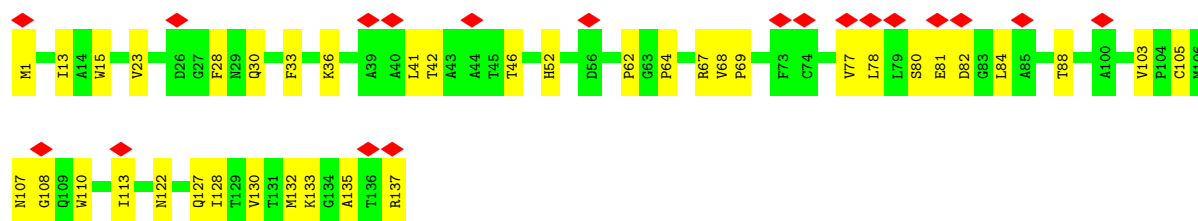


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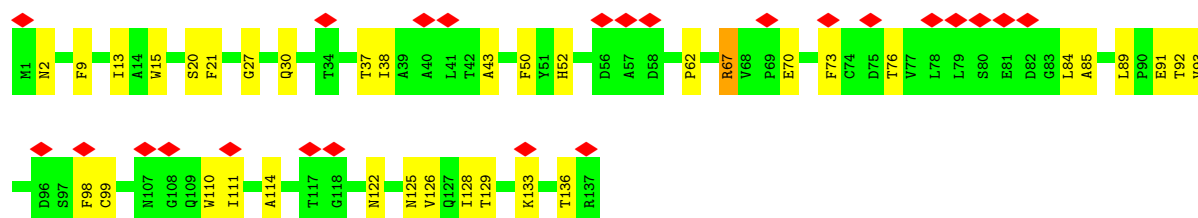
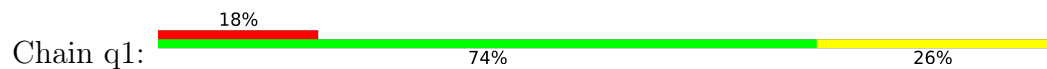


- Molecule 6: Minor capsid protein, gp10

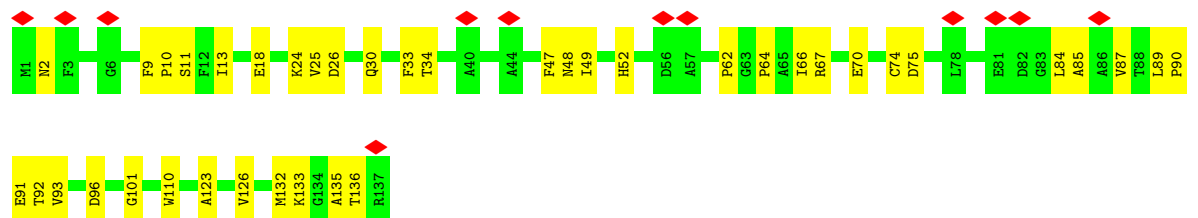
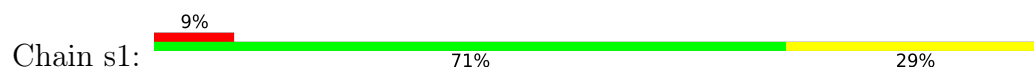




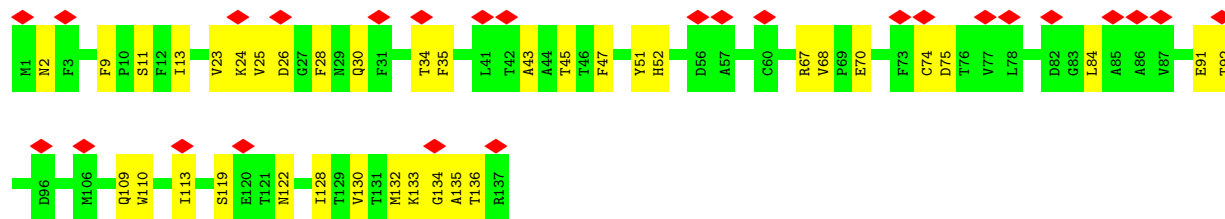
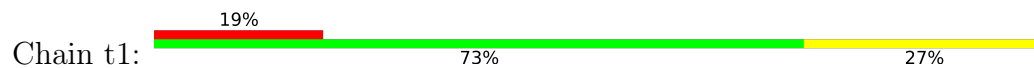
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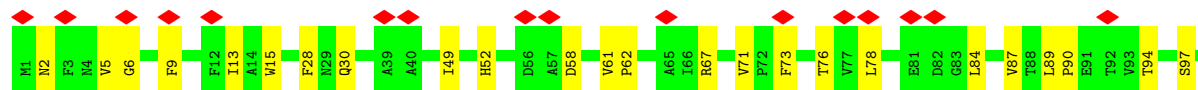
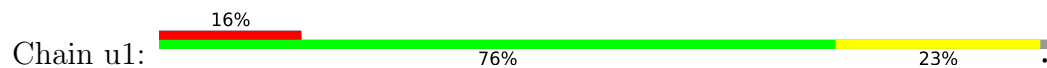
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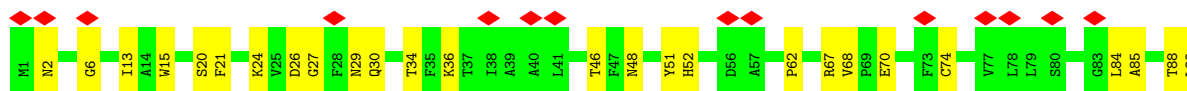


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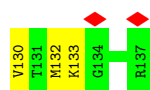
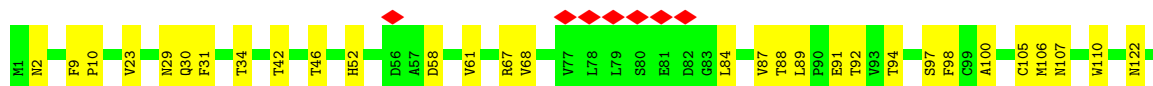
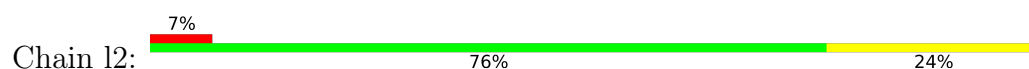




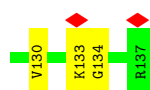
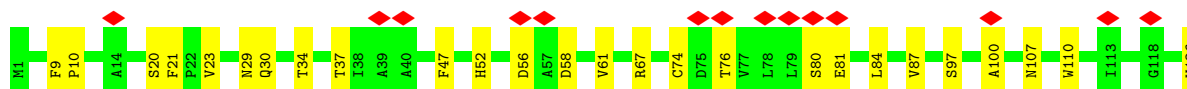
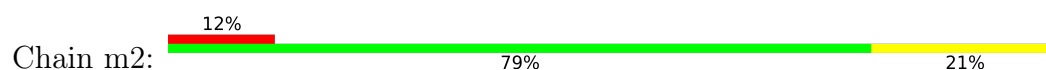
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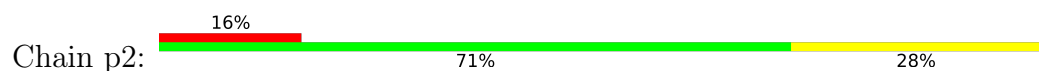
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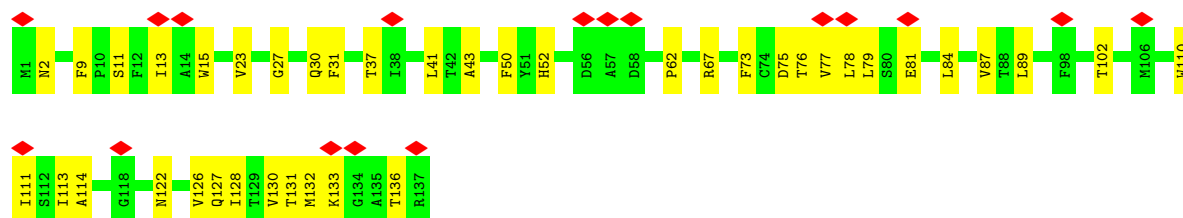
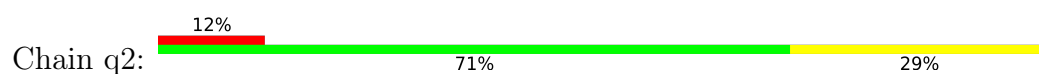
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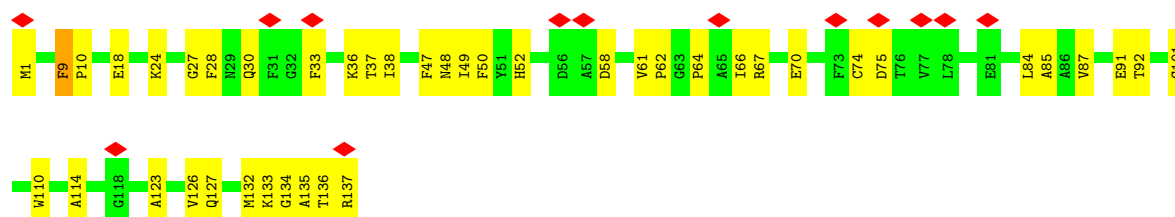
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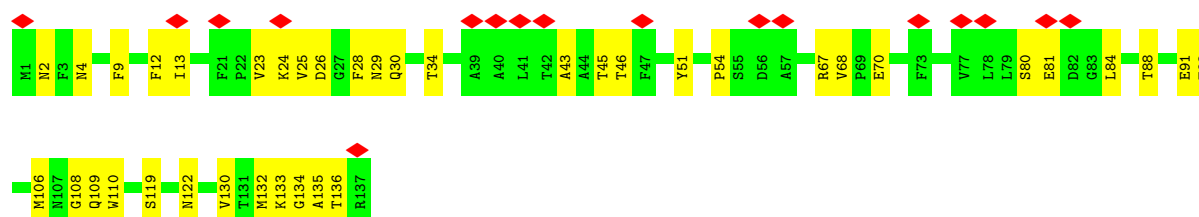
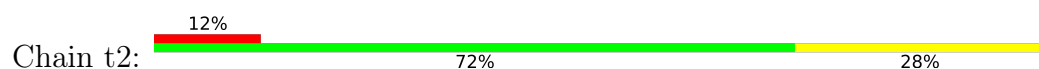
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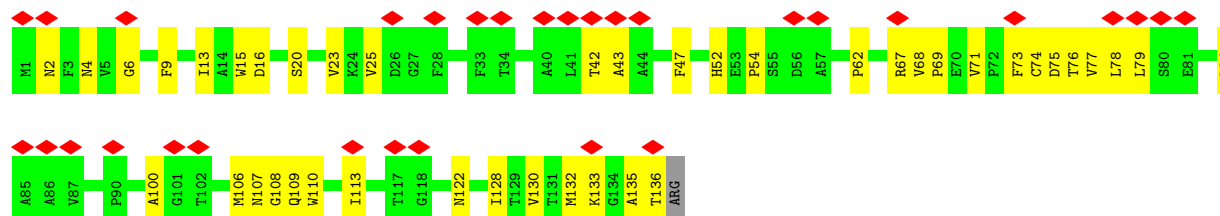
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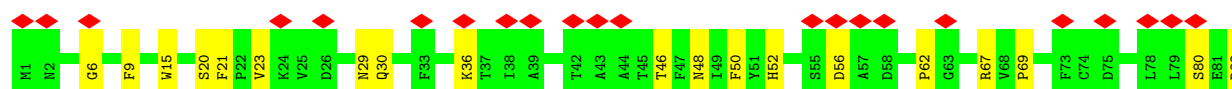
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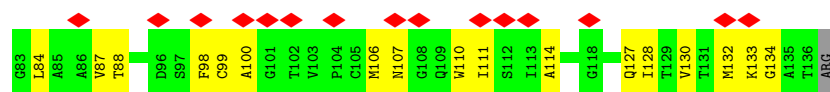


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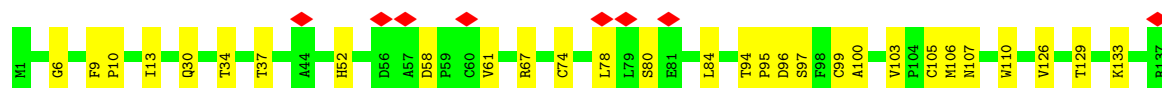
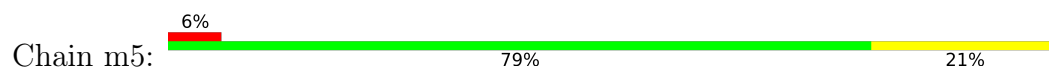




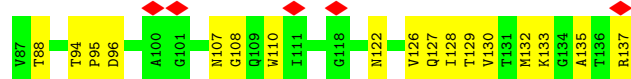
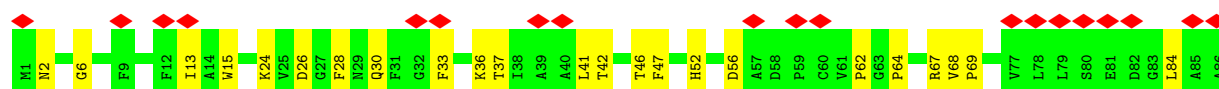
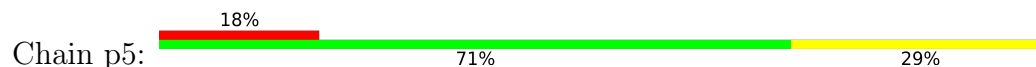
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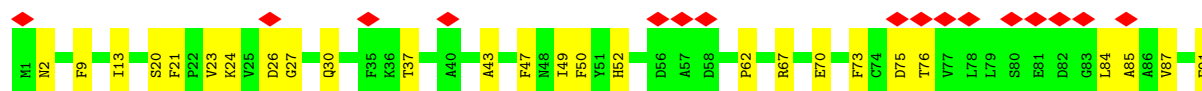
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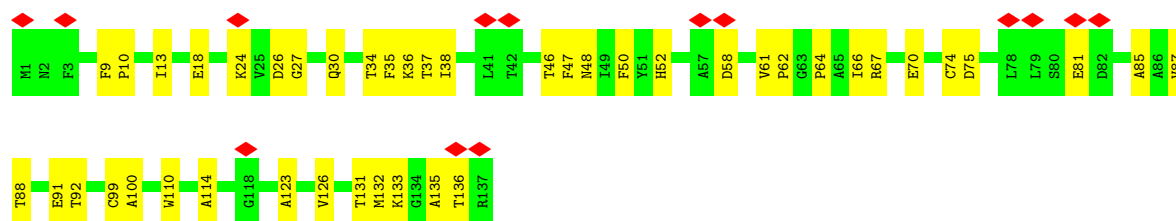


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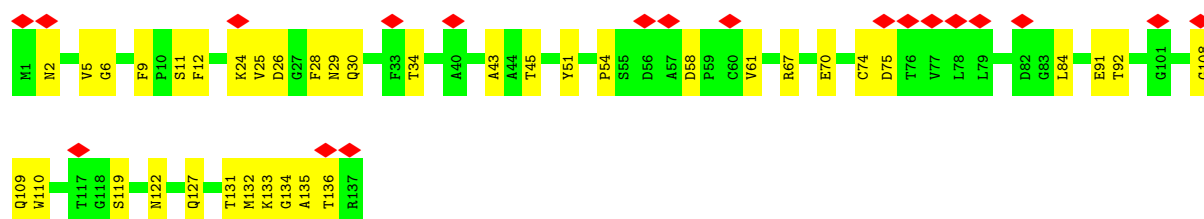
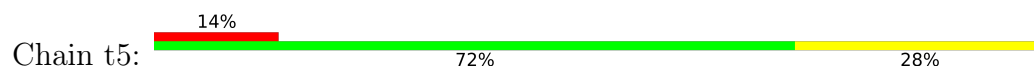


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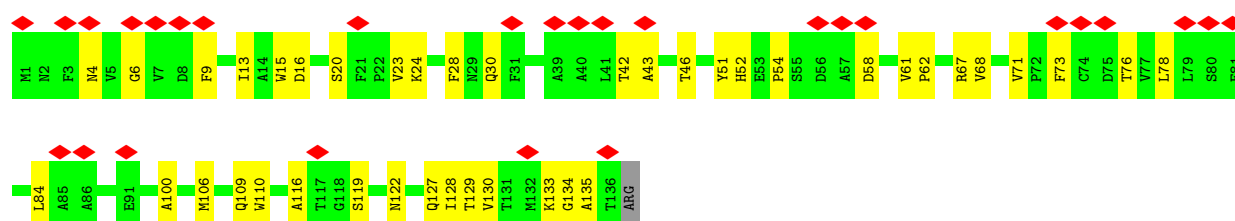




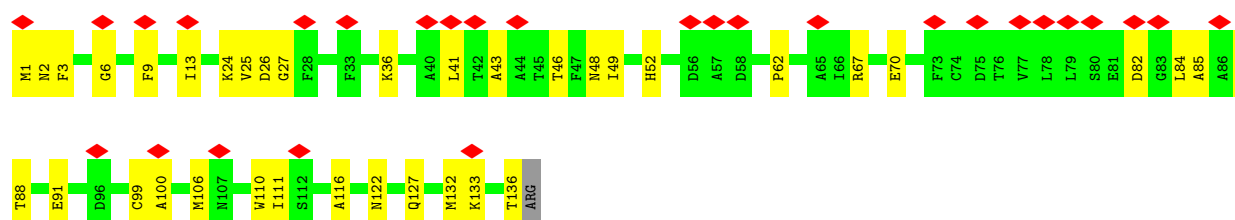
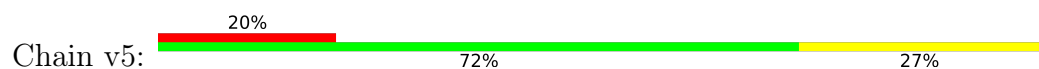
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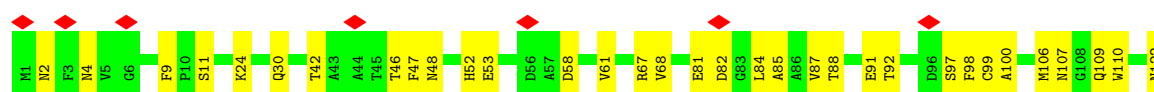
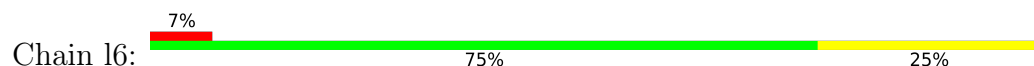
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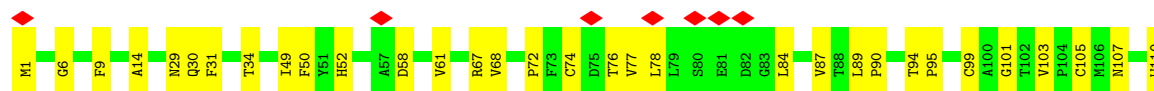
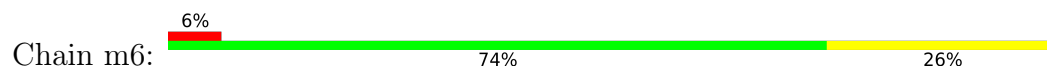


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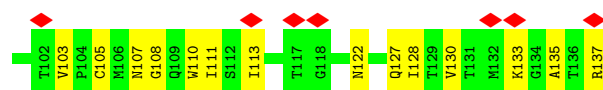
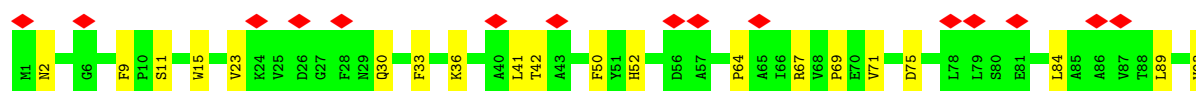
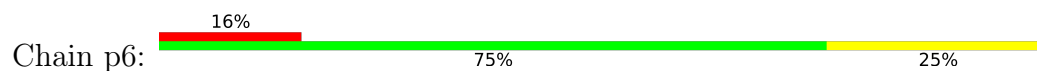




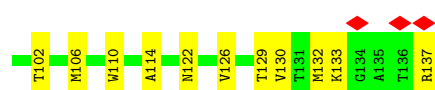
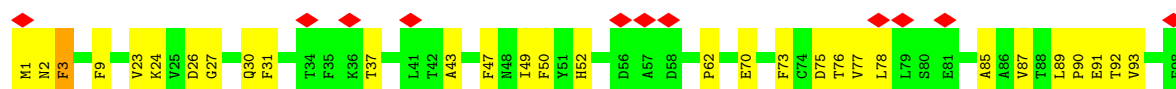
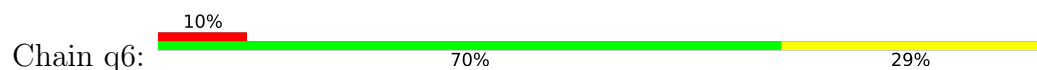
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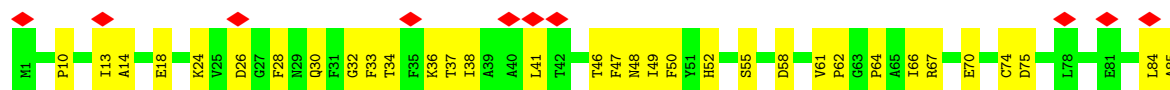
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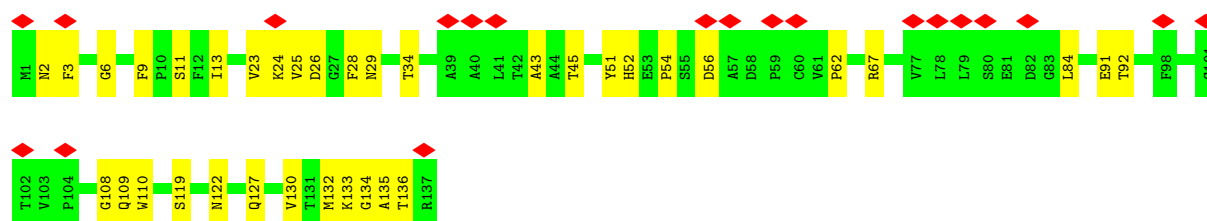
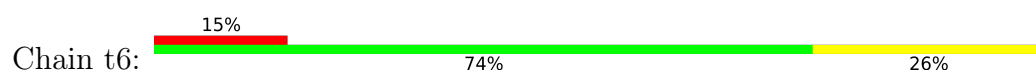
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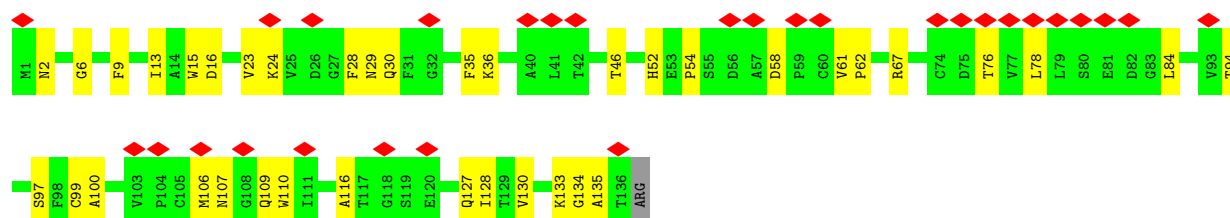
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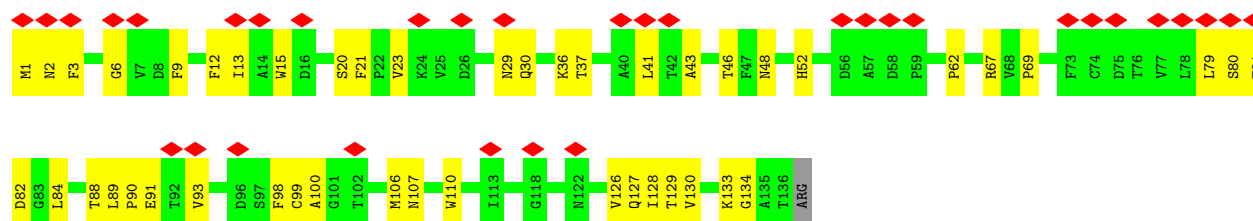
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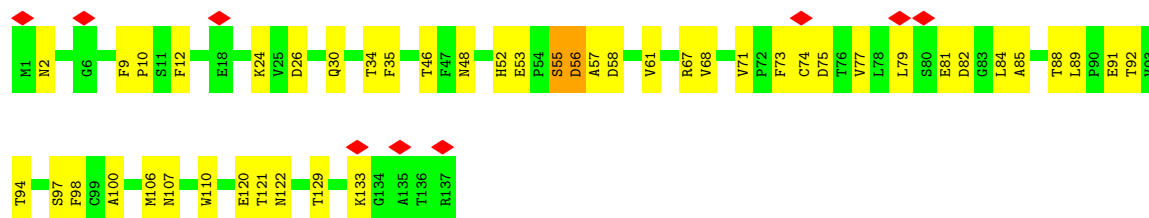
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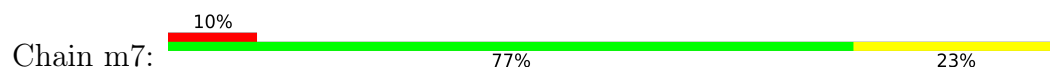
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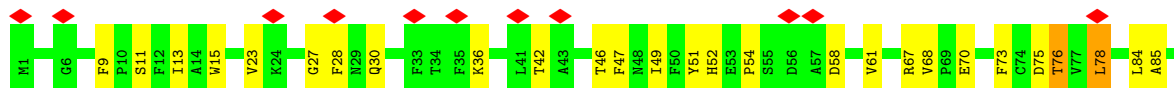


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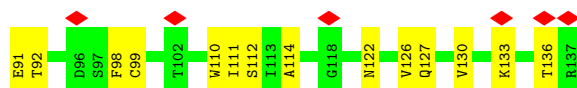
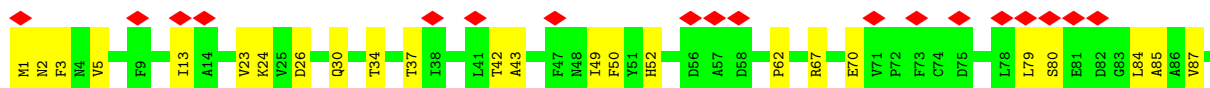
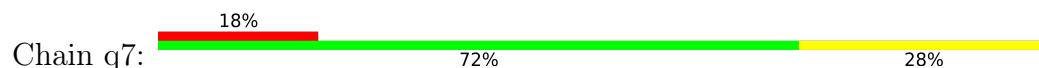




- Molecule 6: Minor capsid protein, gp10



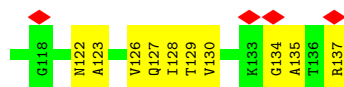
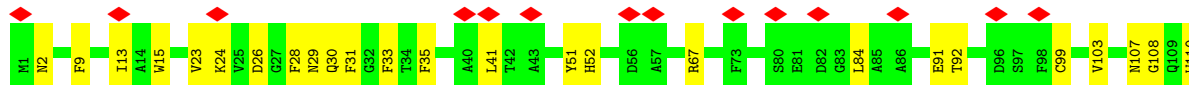
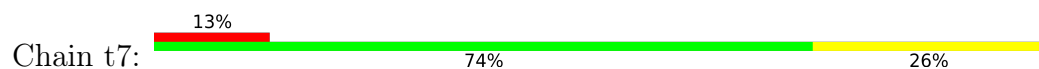
- Molecule 6: Minor capsid protein, gp10



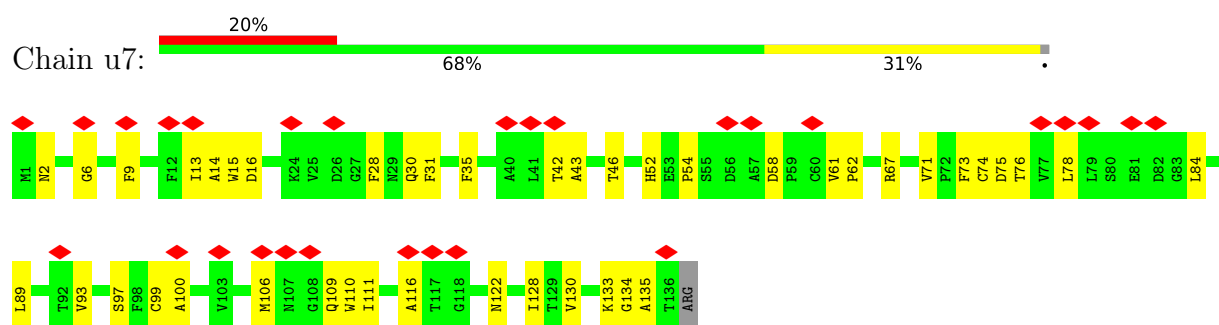
- Molecule 6: Minor capsid protein, gp10



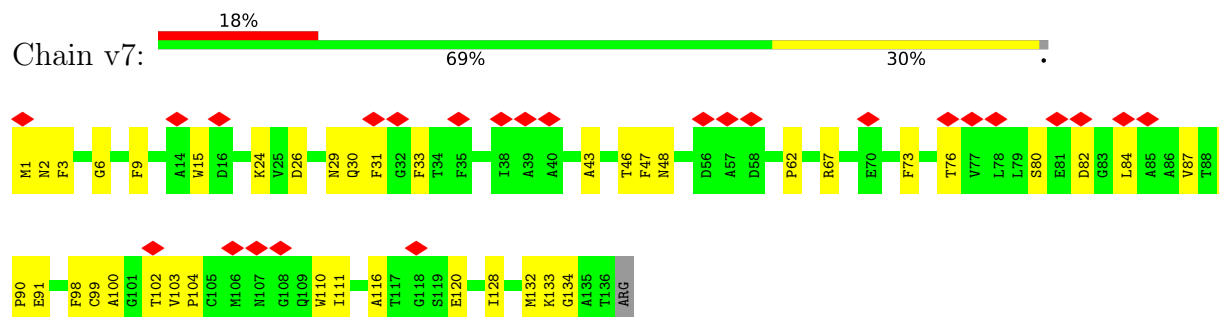
- Molecule 6: Minor capsid protein, gp10



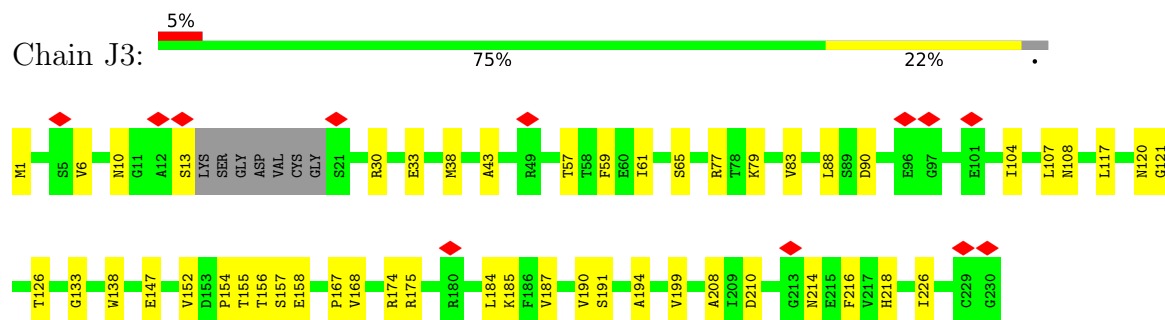
- Molecule 6: Minor capsid protein, gp10



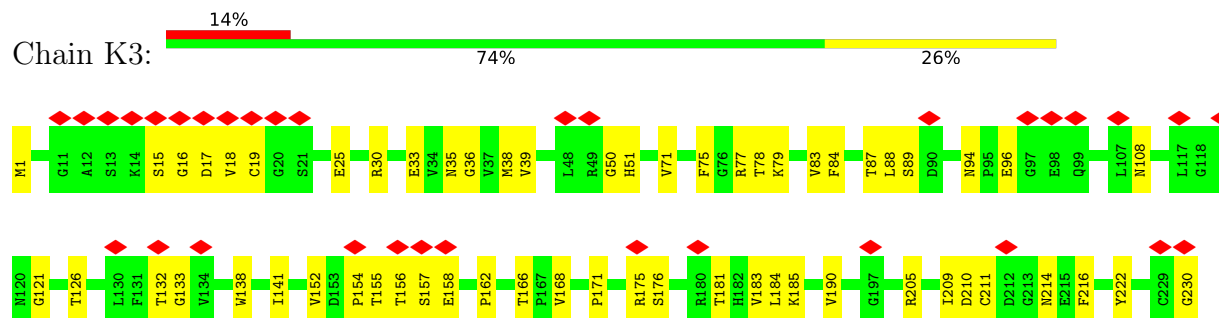
- Molecule 6: Minor capsid protein, gp10



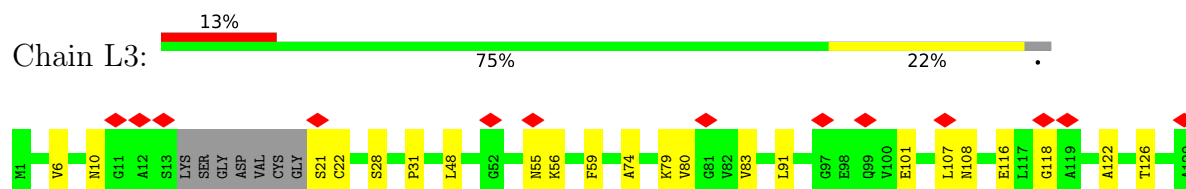
- Molecule 7: Collar sheath protein, gp13

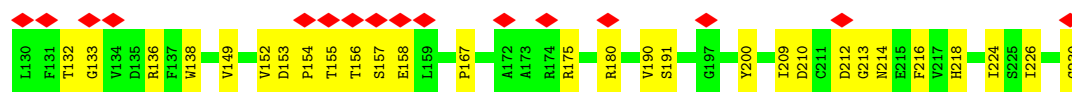


- Molecule 7: Collar sheath protein, gp13

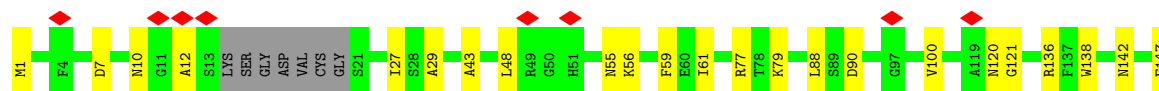
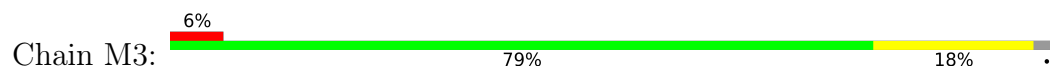


- Molecule 7: Collar sheath protein, gp13

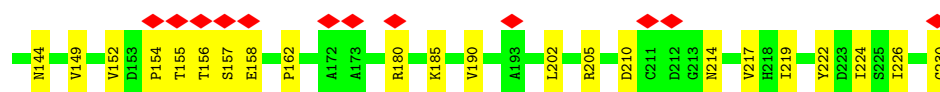
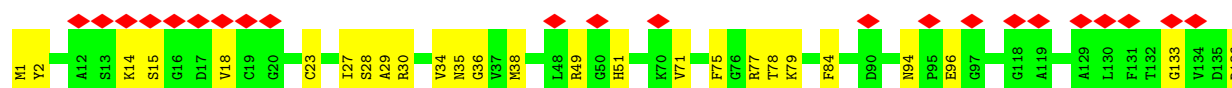
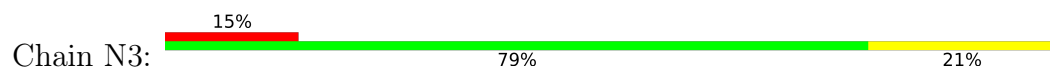




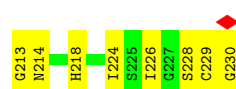
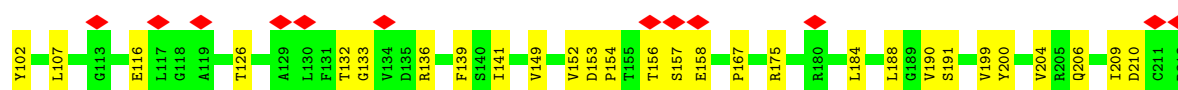
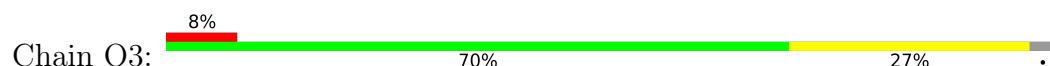
- Molecule 7: Collar sheath protein, gp13



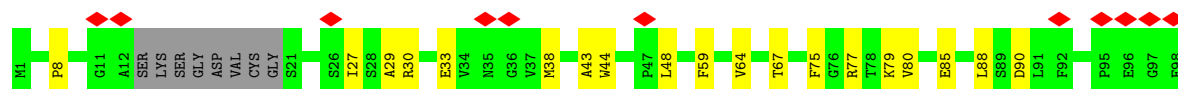
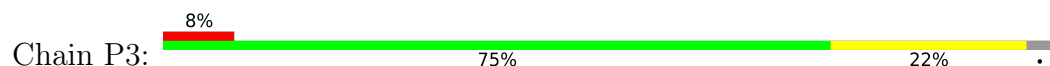
- Molecule 7: Collar sheath protein, gp13

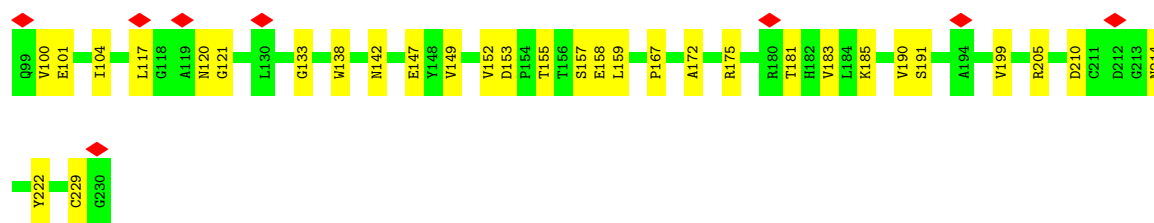


- Molecule 7: Collar sheath protein, gp13

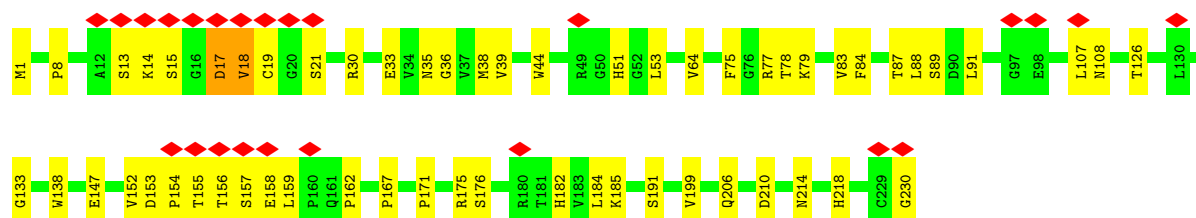
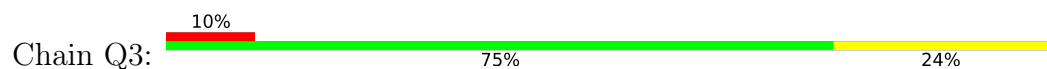


- Molecule 7: Collar sheath protein, gp13

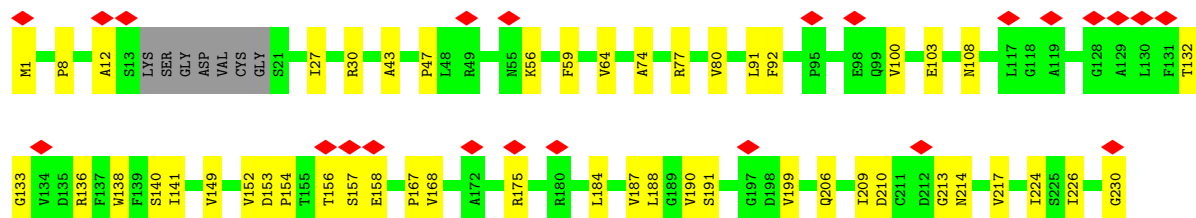
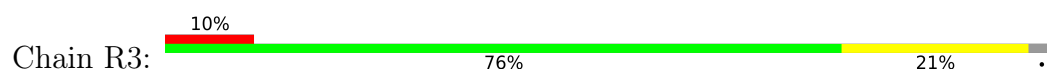




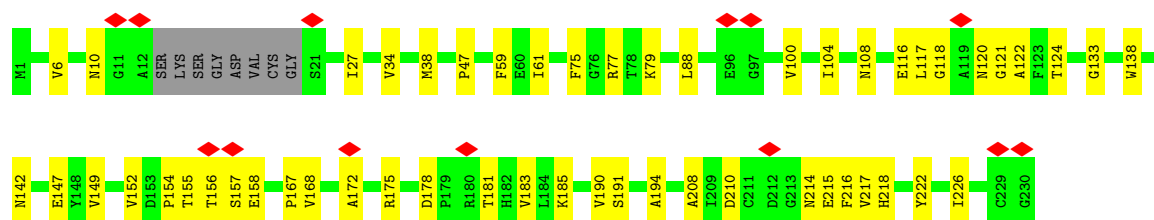
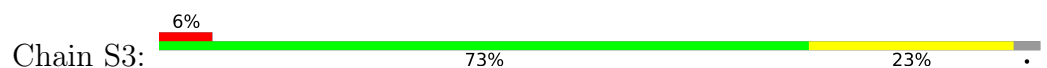
- Molecule 7: Collar sheath protein, gp13



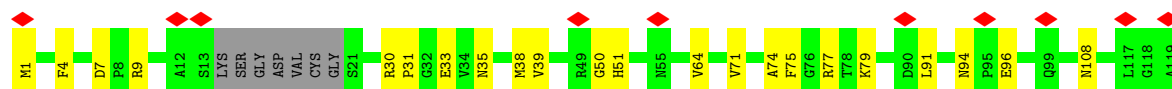
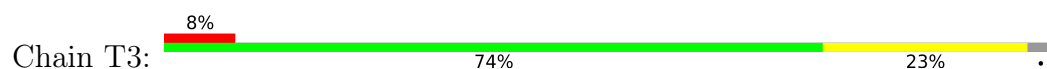
- Molecule 7: Collar sheath protein, gp13

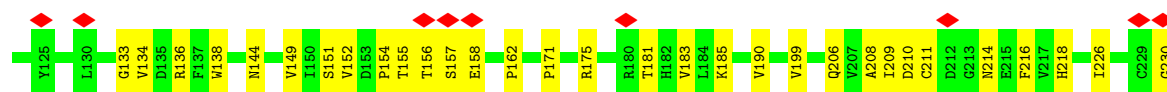


- Molecule 7: Collar sheath protein, gp13

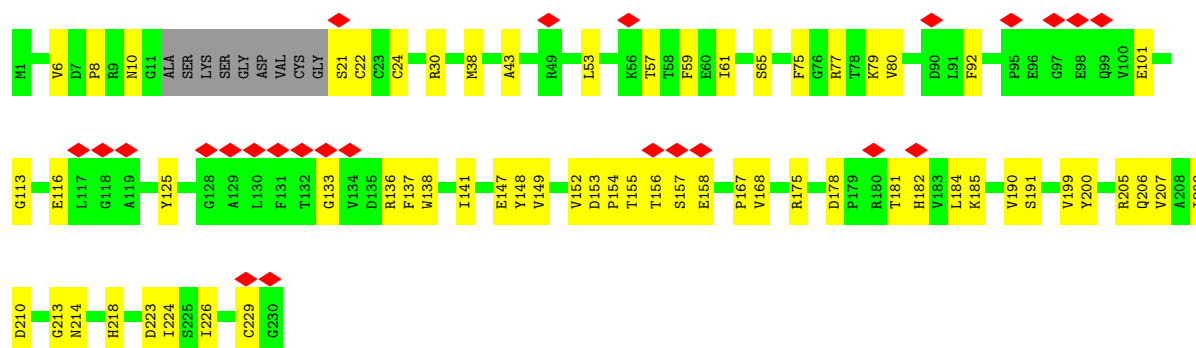


- Molecule 7: Collar sheath protein, gp13

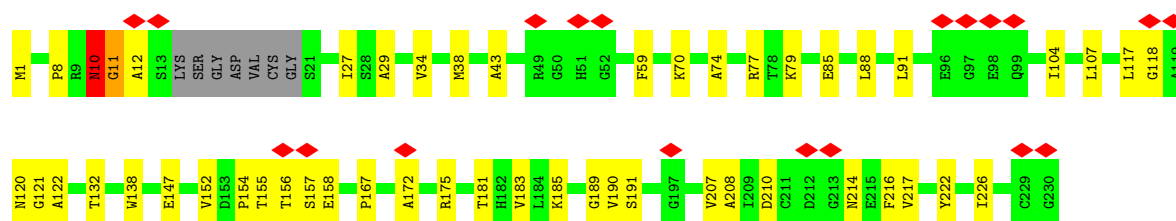
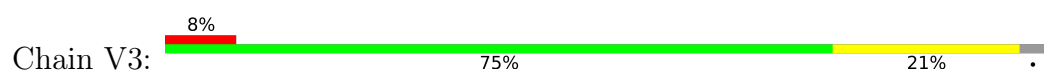




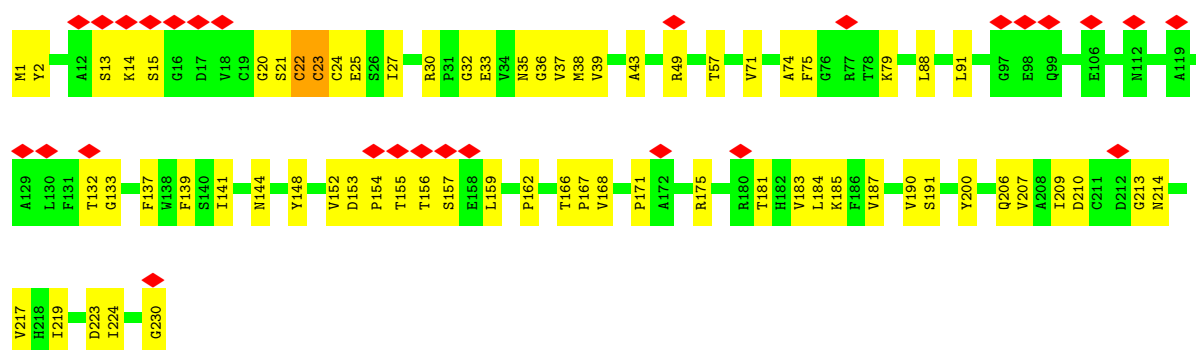
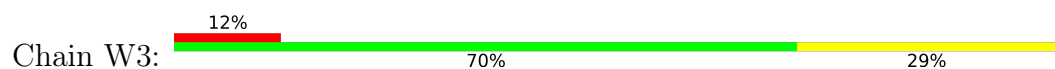
• Molecule 7: Collar sheath protein, gp13



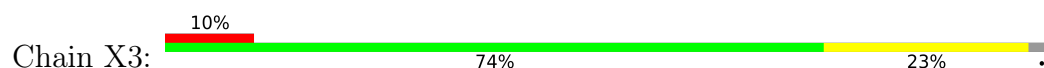
• Molecule 7: Collar sheath protein, gp13

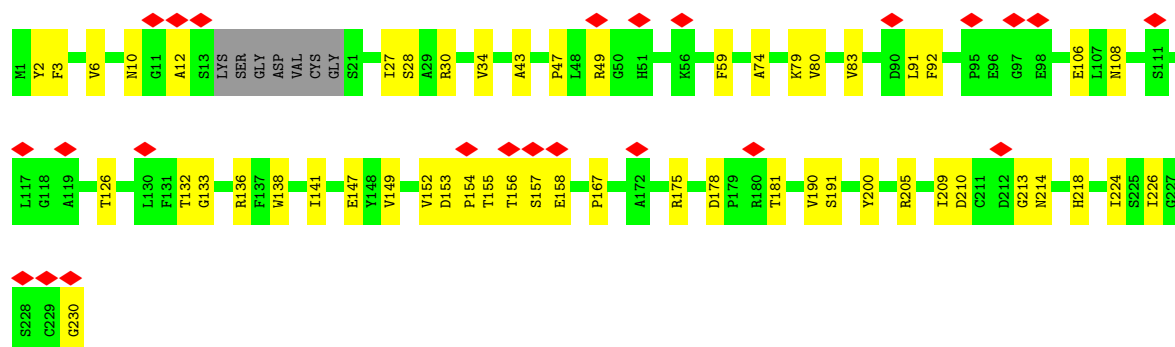


• Molecule 7: Collar sheath protein, gp13

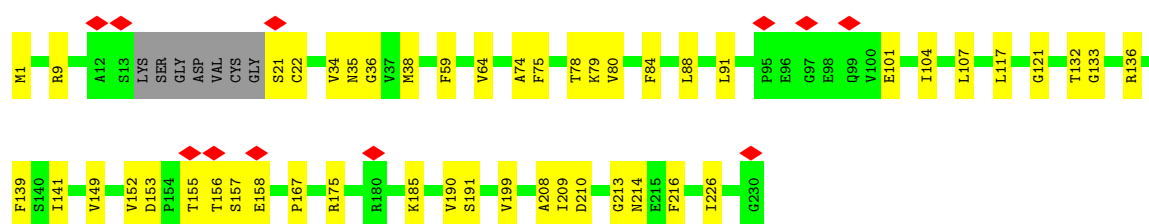
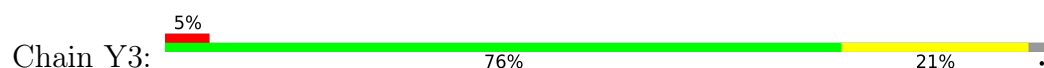


• Molecule 7: Collar sheath protein, gp13

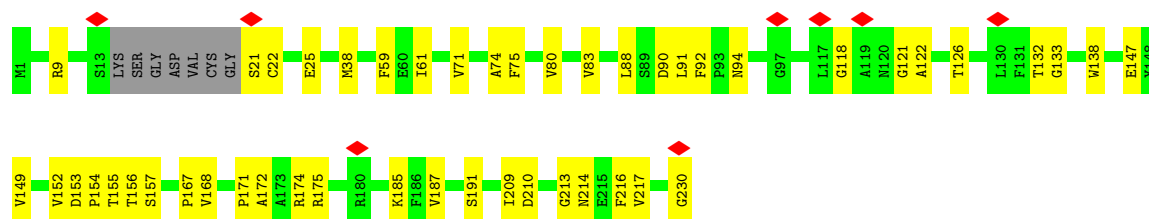
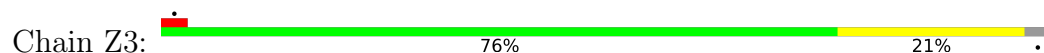




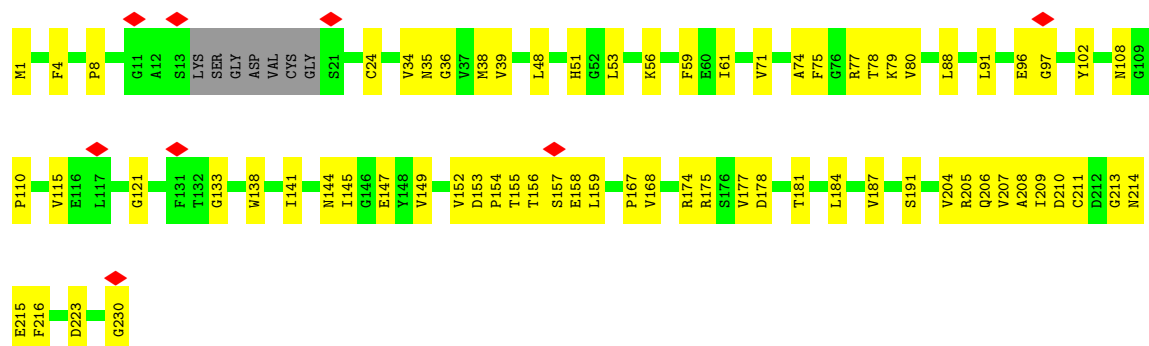
- Molecule 7: Collar sheath protein, gp13



- Molecule 7: Collar sheath protein, gp13

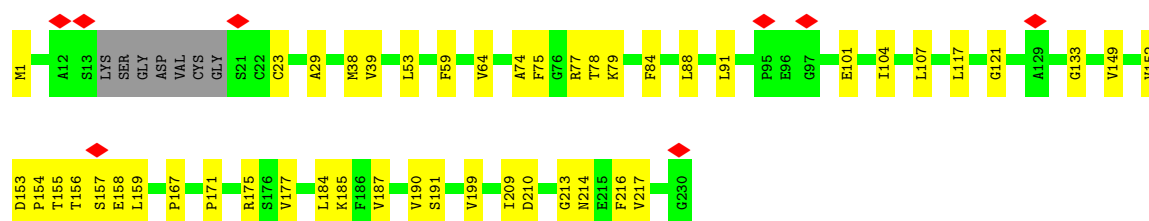


- Molecule 7: Collar sheath protein, gp13



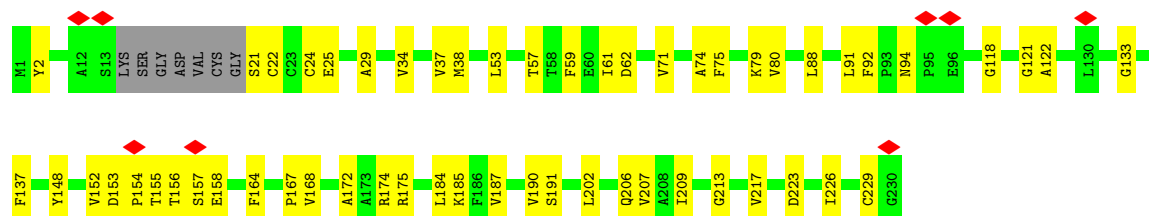
- Molecule 7: Collar sheath protein, gp13

Chain b3:  77% 20%



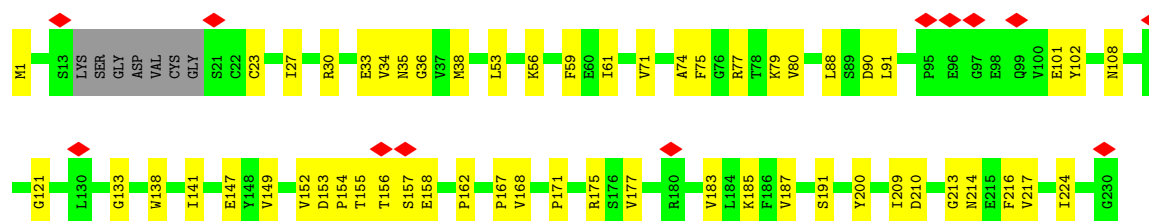
- Molecule 7: Collar sheath protein, gp13

Chain c3:  73% 24%



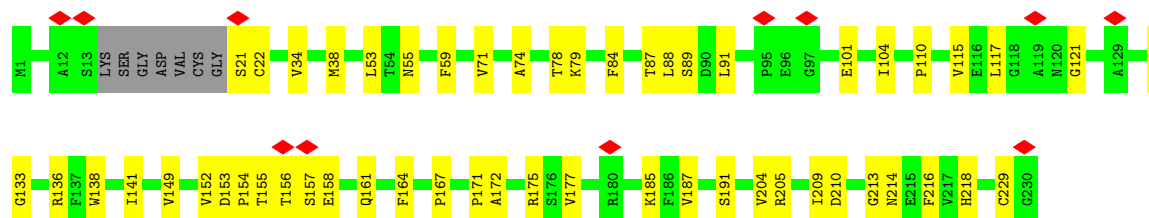
- Molecule 7: Collar sheath protein, gp13

Chain d3:  5% 73% 24%



- Molecule 7: Collar sheath protein, gp13

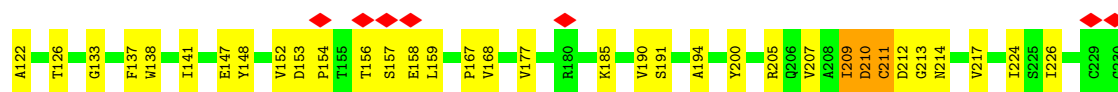
Chain e3:  5% 73% 23%



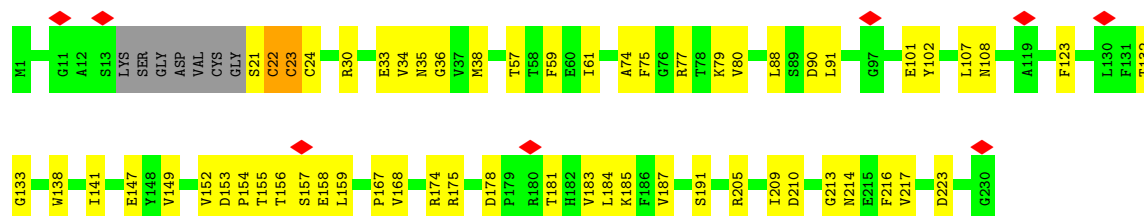
- Molecule 7: Collar sheath protein, gp13

Chain f3:  5% 70% 23%

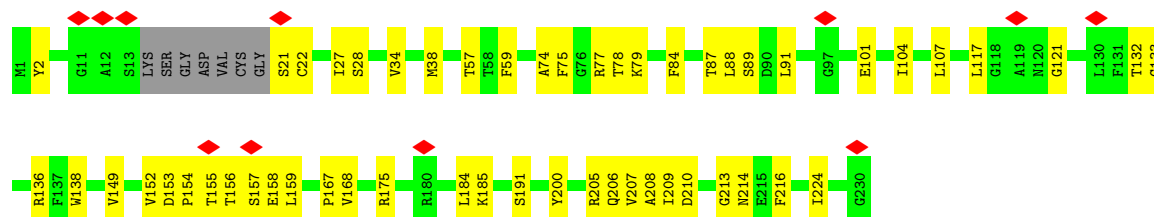
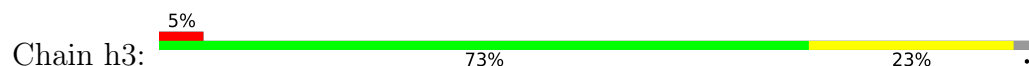




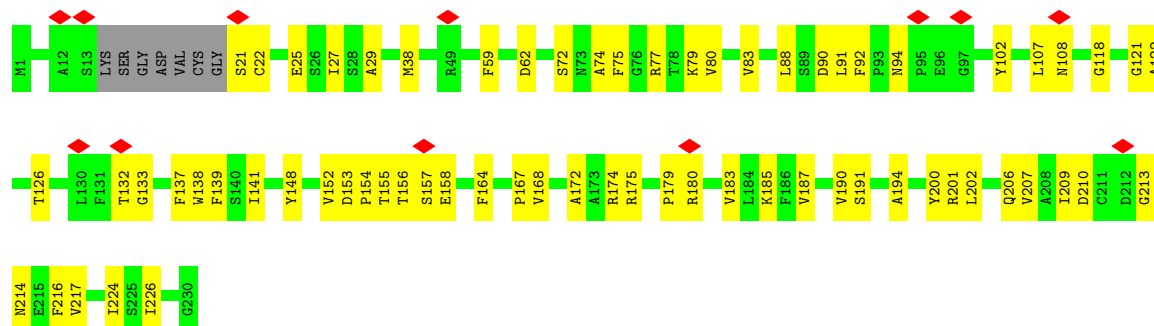
- Molecule 7: Collar sheath protein, gp13



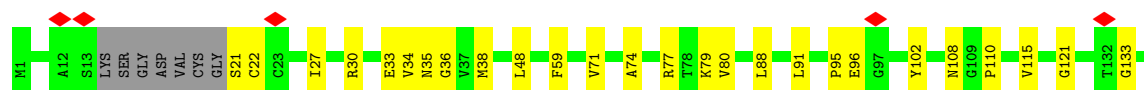
- Molecule 7: Collar sheath protein, gp13

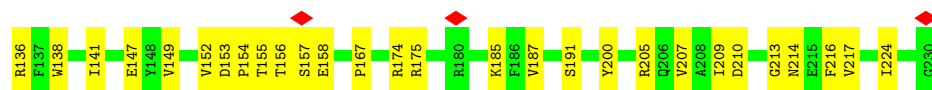


- Molecule 7: Collar sheath protein, gp13

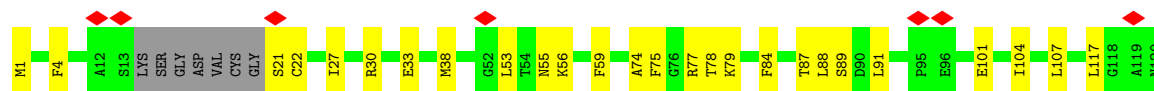
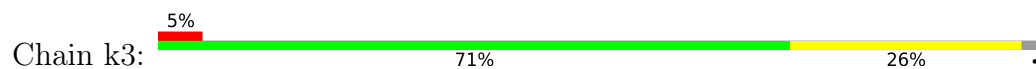


- Molecule 7: Collar sheath protein, gp13





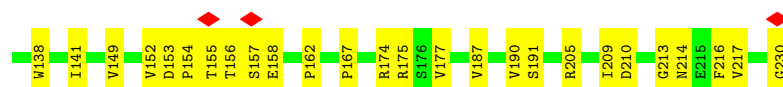
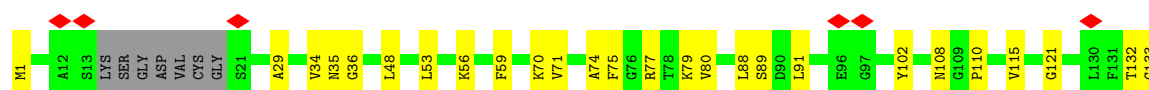
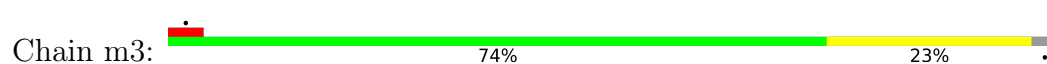
- Molecule 7: Collar sheath protein, gp13



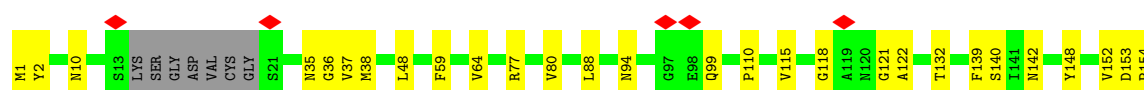
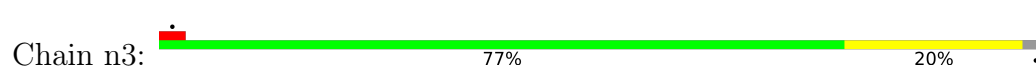
- Molecule 7: Collar sheath protein, gp13



- Molecule 7: Collar sheath protein, gp13

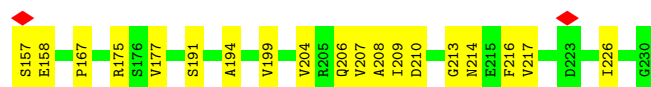
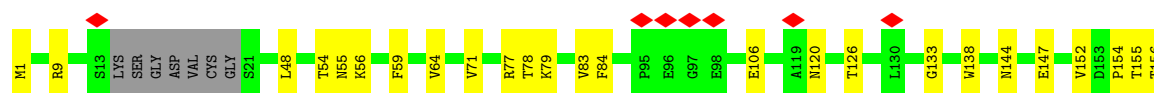
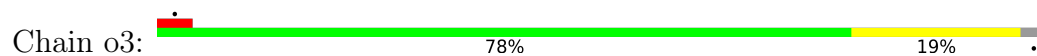


- Molecule 7: Collar sheath protein, gp13

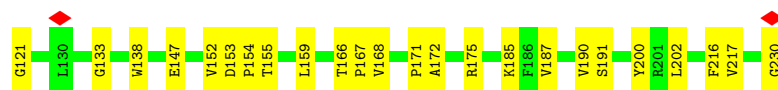
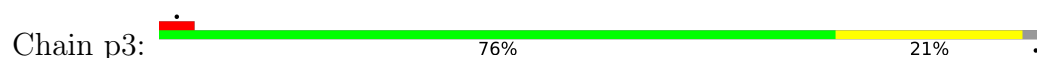




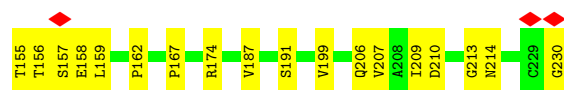
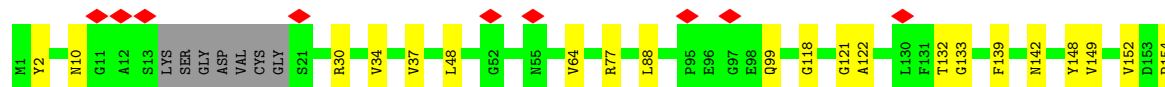
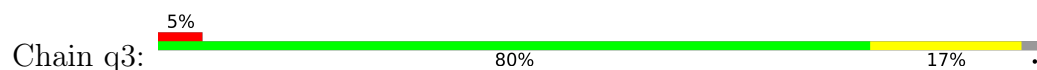
- Molecule 7: Collar sheath protein, gp13



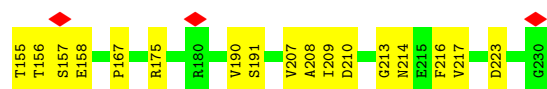
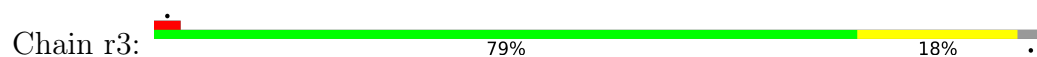
- Molecule 7: Collar sheath protein, gp13



- Molecule 7: Collar sheath protein, gp13

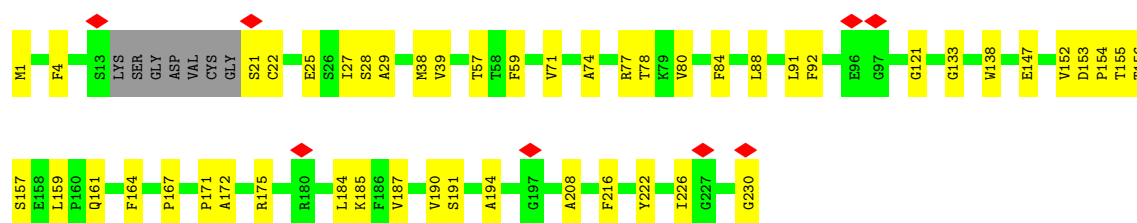


- Molecule 7: Collar sheath protein, gp13



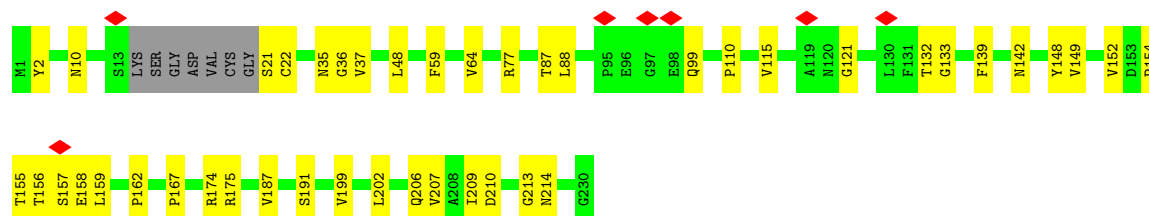
- Molecule 7: Collar sheath protein, gp13

Chain s3:  76% 21%



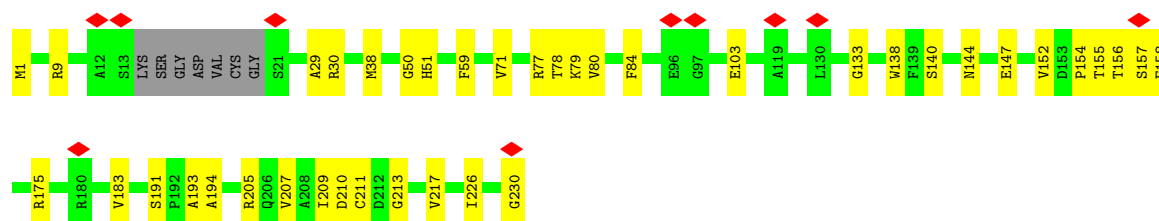
• Molecule 7: Collar sheath protein, gp13

Chain t3:  78% 19%



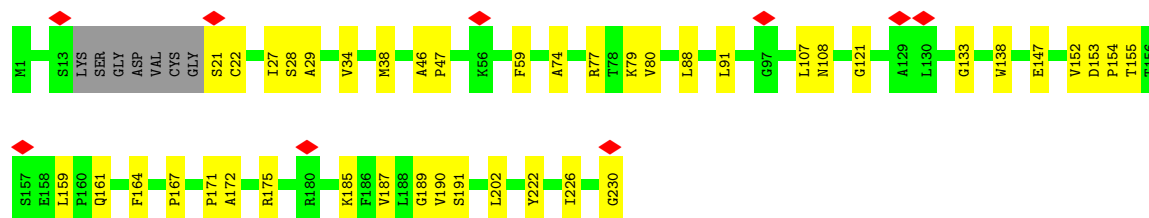
• Molecule 7: Collar sheath protein, gp13

Chain u3:  80% 17%



• Molecule 7: Collar sheath protein, gp13

Chain v3:  79% 18%



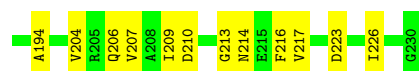
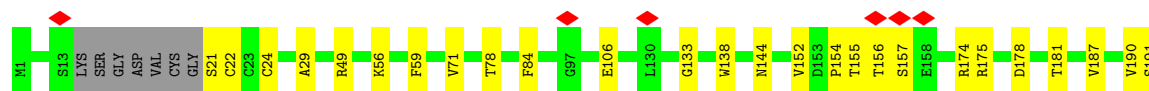
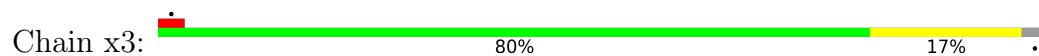
• Molecule 7: Collar sheath protein, gp13

Chain w3:  73% 24%

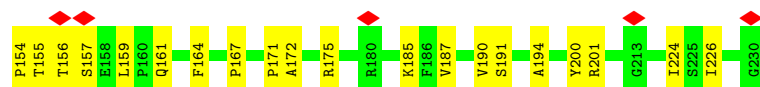
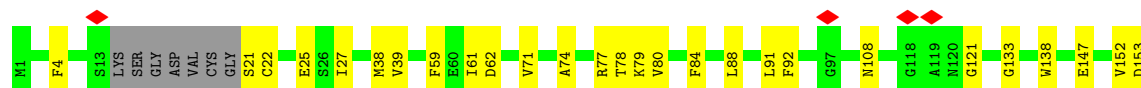
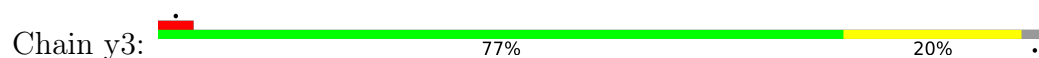




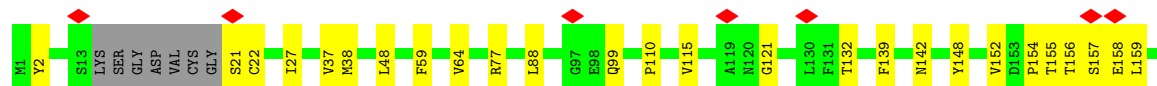
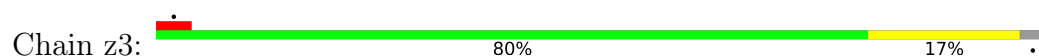
- Molecule 7: Collar sheath protein, gp13



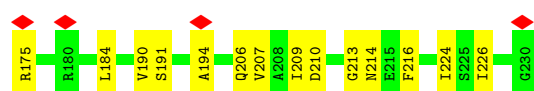
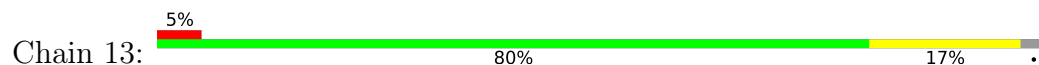
- Molecule 7: Collar sheath protein, gp13



- Molecule 7: Collar sheath protein, gp13

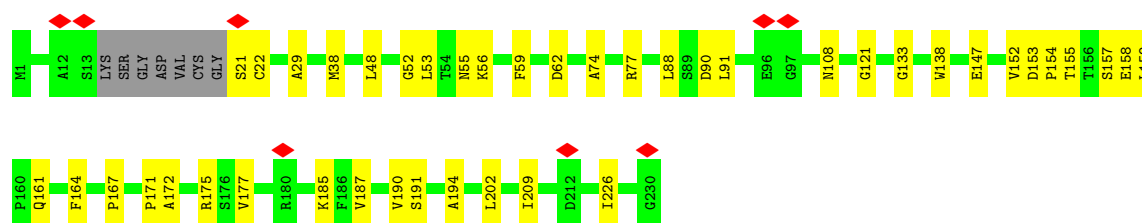


- Molecule 7: Collar sheath protein, gp13



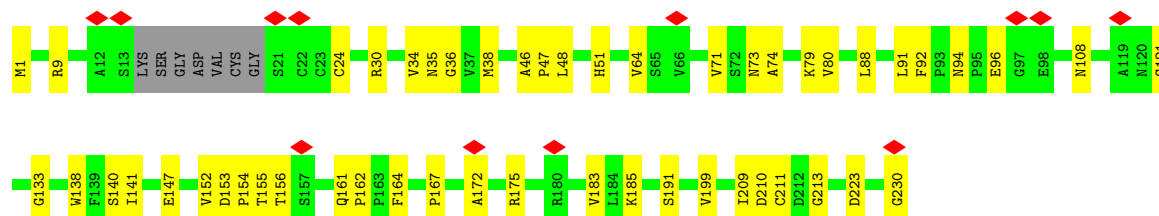
- Molecule 7: Collar sheath protein, gp13

Chain 23:  78% 19%



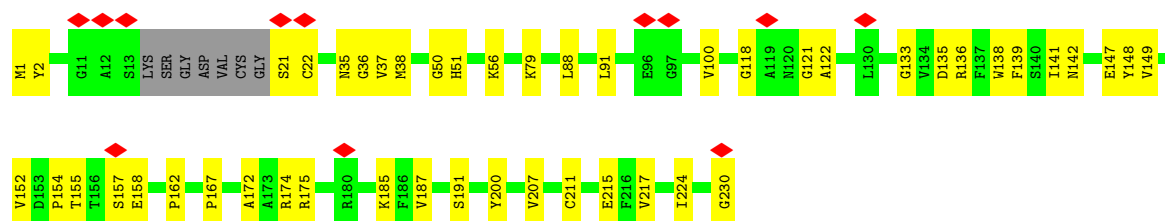
- Molecule 7: Collar sheath protein, gp13

Chain 33:  5% 75% 22%



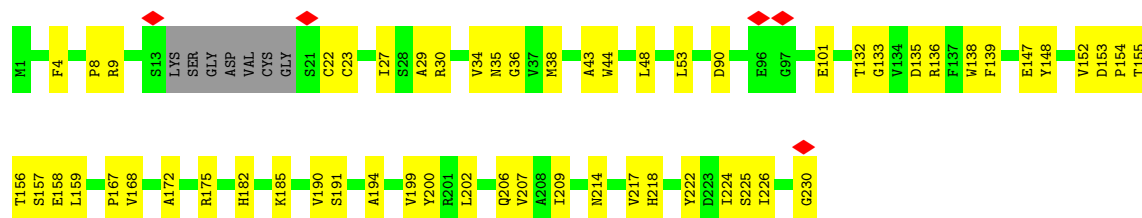
- Molecule 7: Collar sheath protein, gp13

Chain 43:  5% 76% 21%



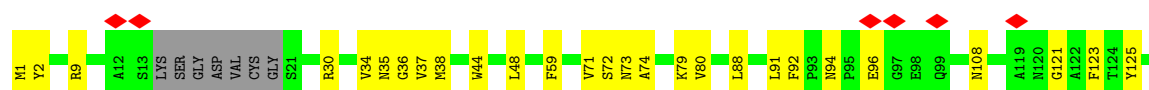
- Molecule 7: Collar sheath protein, gp13

Chain 53:  72% 25%



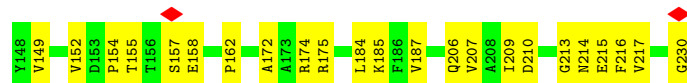
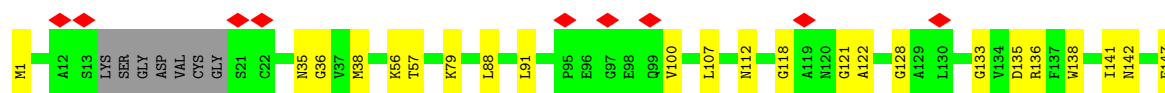
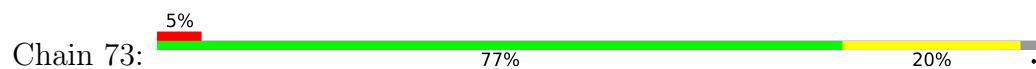
- Molecule 7: Collar sheath protein, gp13

Chain 63:  5% 73% 24%

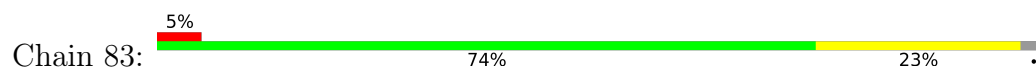




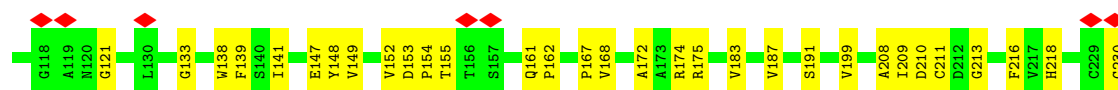
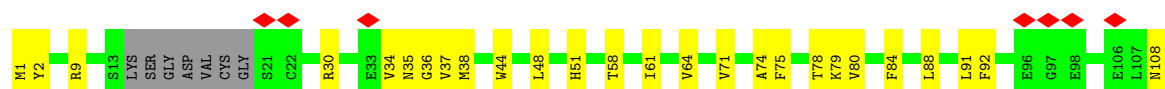
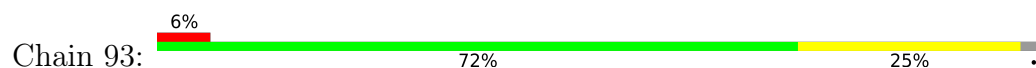
- Molecule 7: Collar sheath protein, gp13



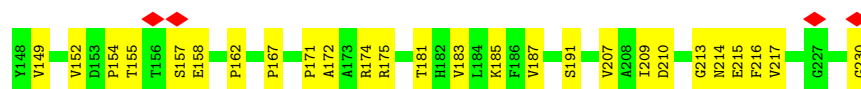
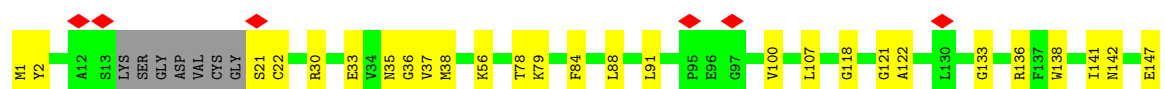
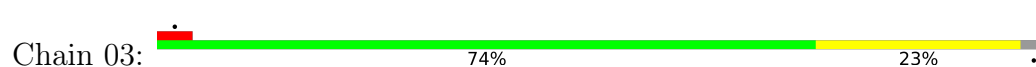
- Molecule 7: Collar sheath protein, gp13



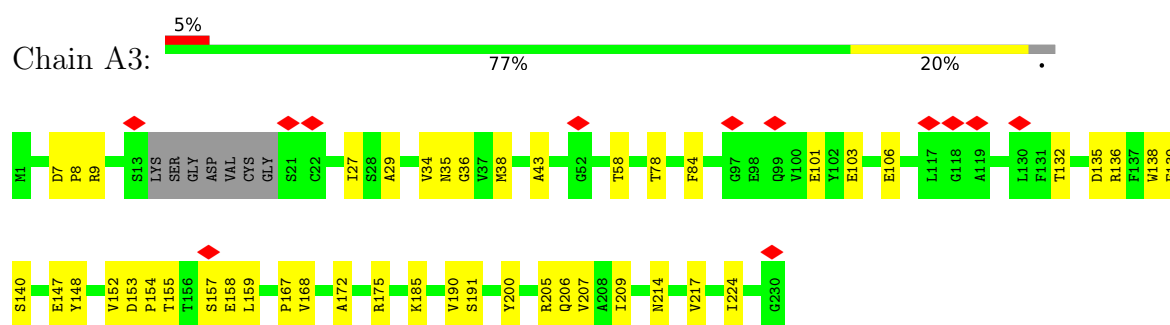
- Molecule 7: Collar sheath protein, gp13



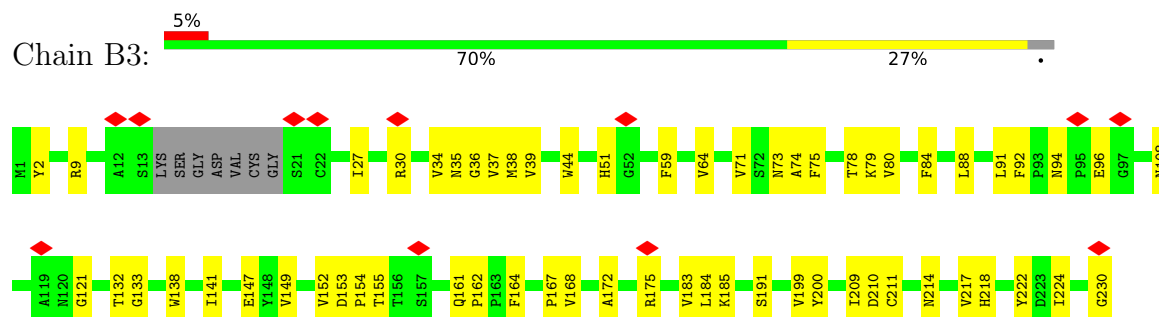
- Molecule 7: Collar sheath protein, gp13



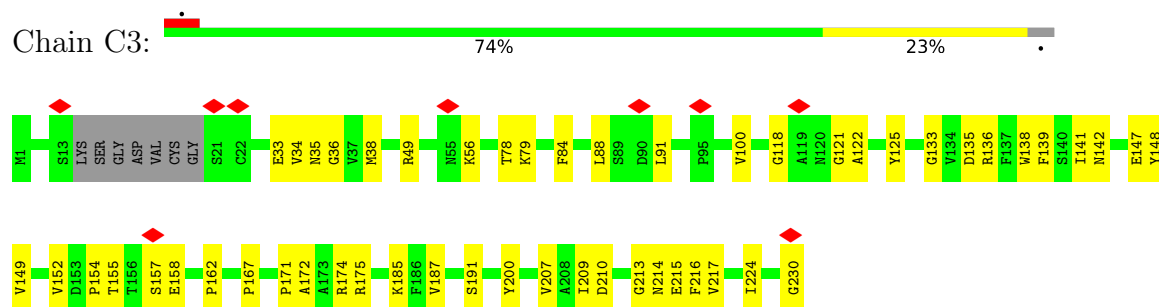
- Molecule 7: Collar sheath protein, gp13



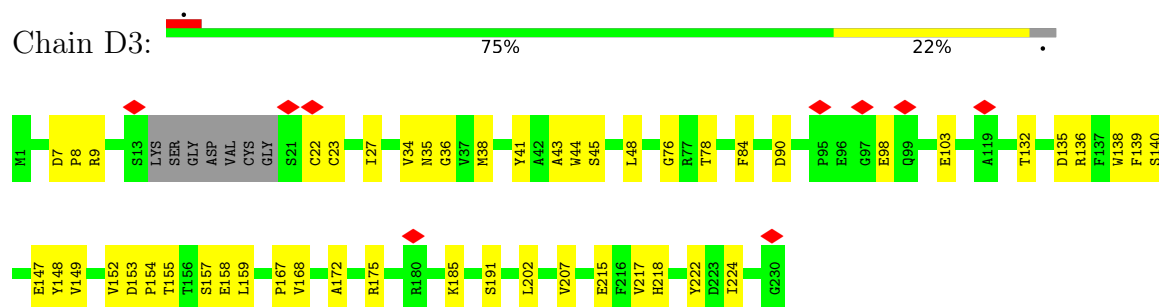
- Molecule 7: Collar sheath protein, gp13



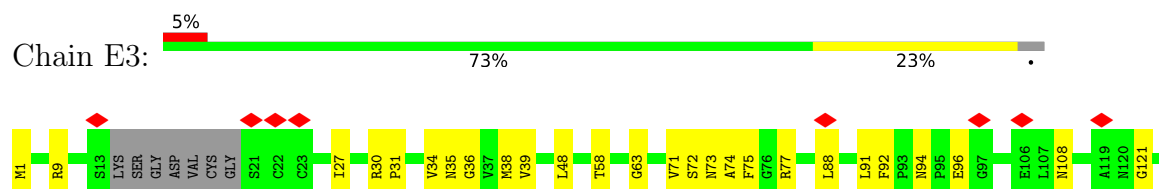
- Molecule 7: Collar sheath protein, gp13

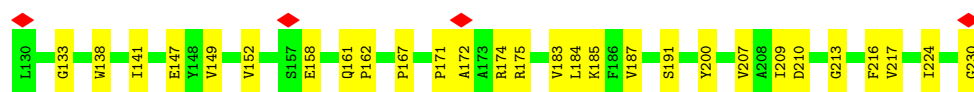


- Molecule 7: Collar sheath protein, gp13

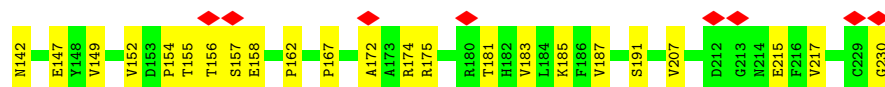
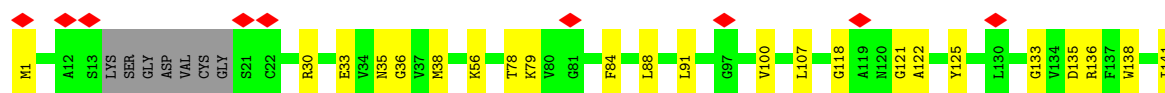
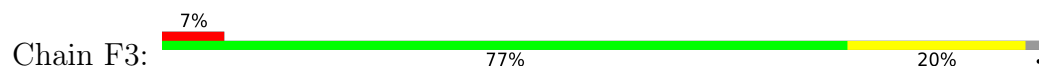


- Molecule 7: Collar sheath protein, gp13

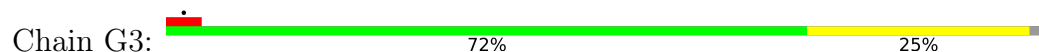




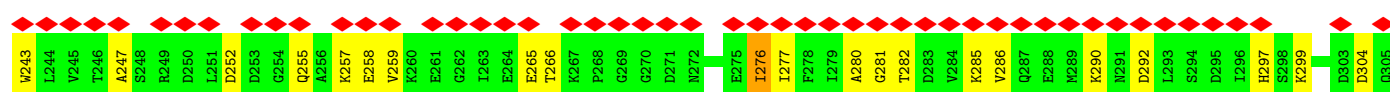
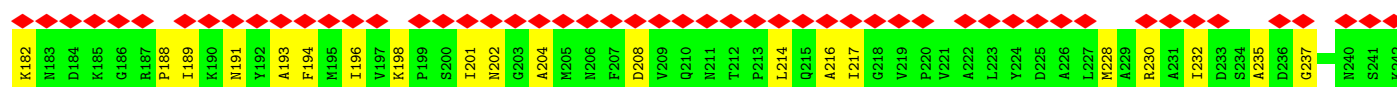
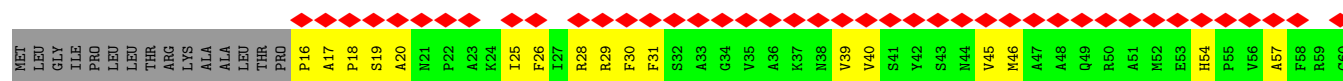
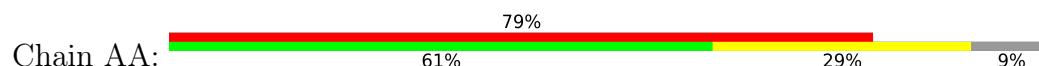
- Molecule 7: Collar sheath protein, gp13

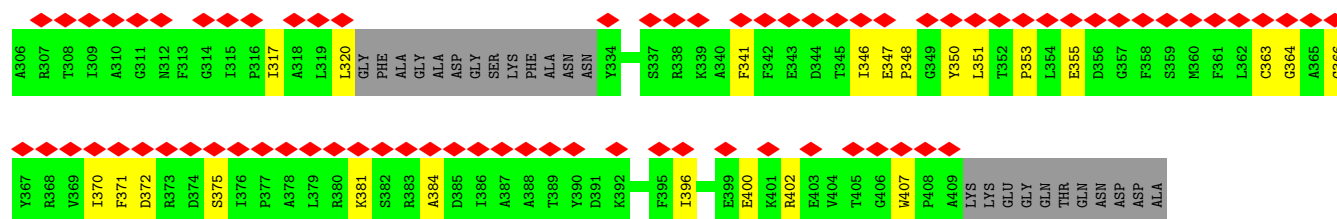


- Molecule 7: Collar sheath protein, gp13

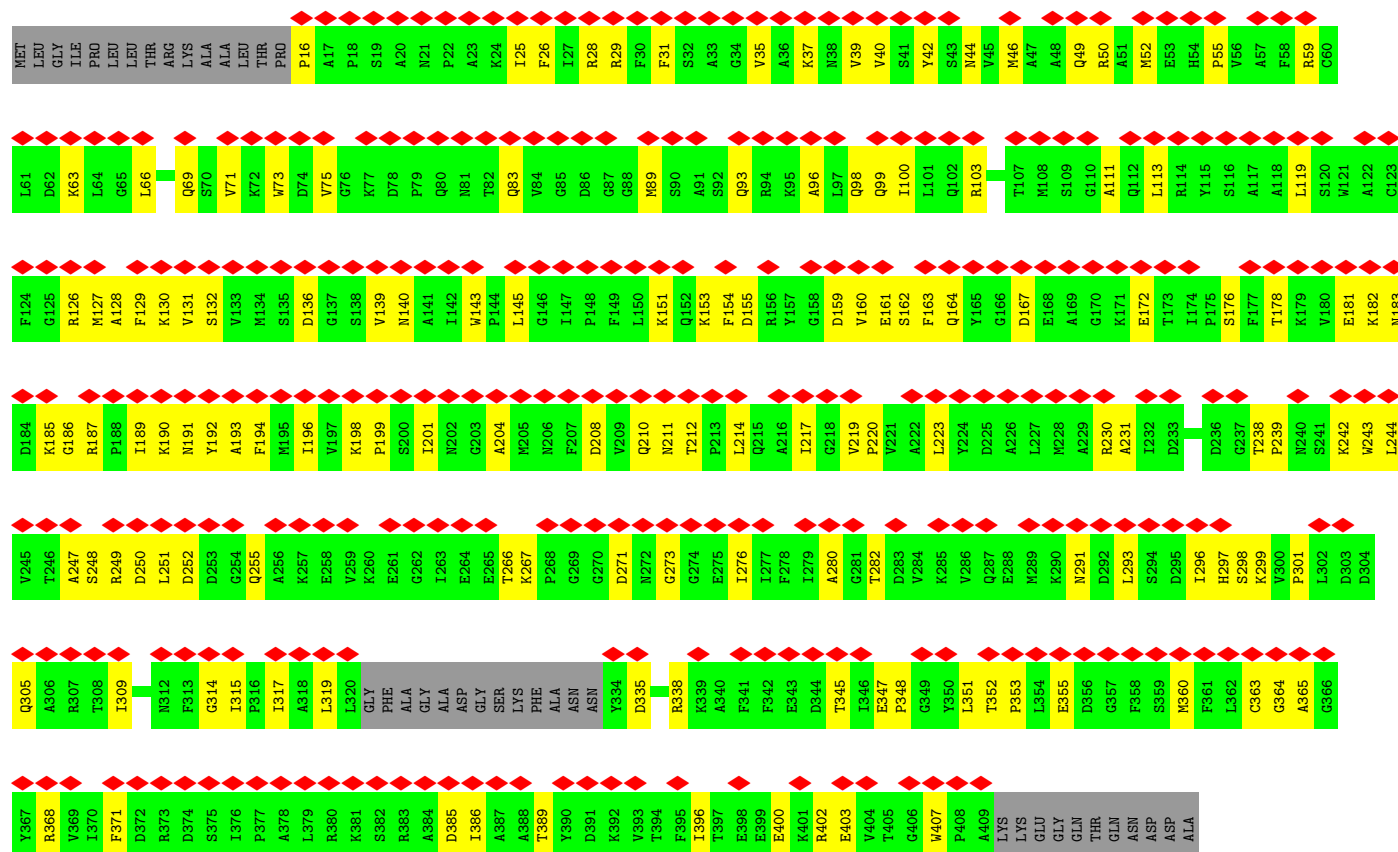
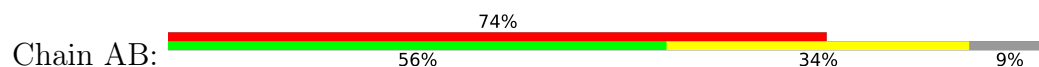


- Molecule 8: Portal protein, gp7

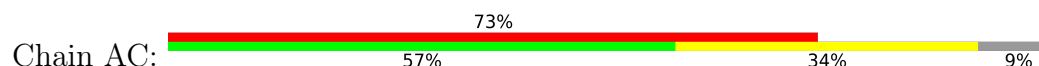


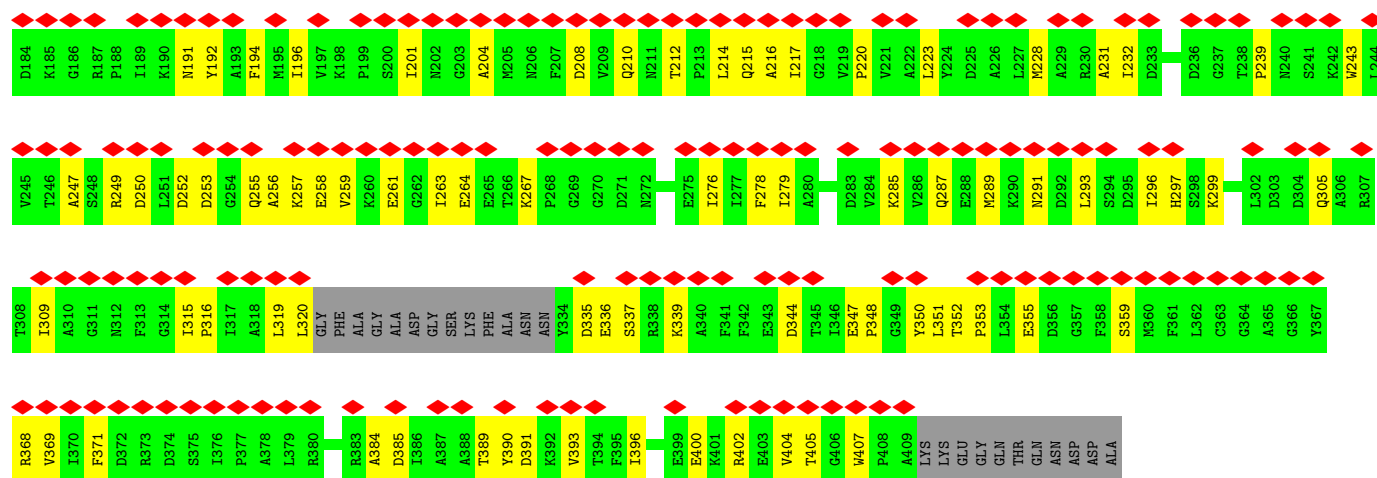


• Molecule 8: Portal protein, gp7

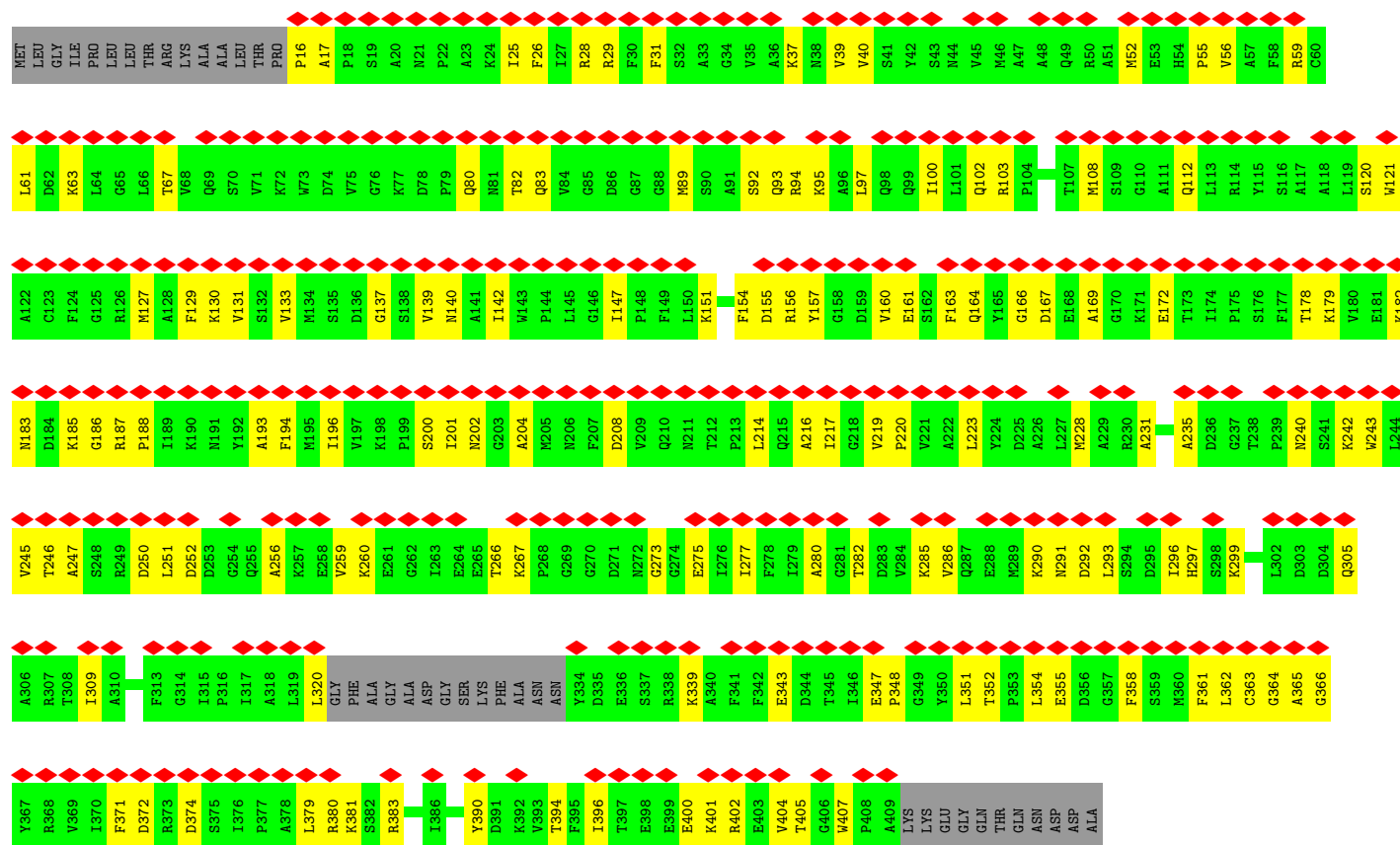
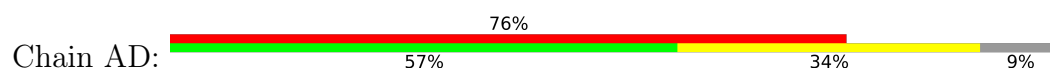


• Molecule 8: Portal protein, gp7

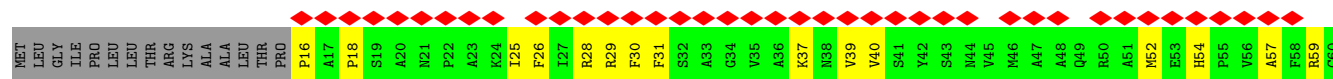
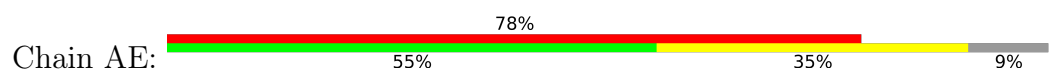




• Molecule 8: Portal protein, gp7

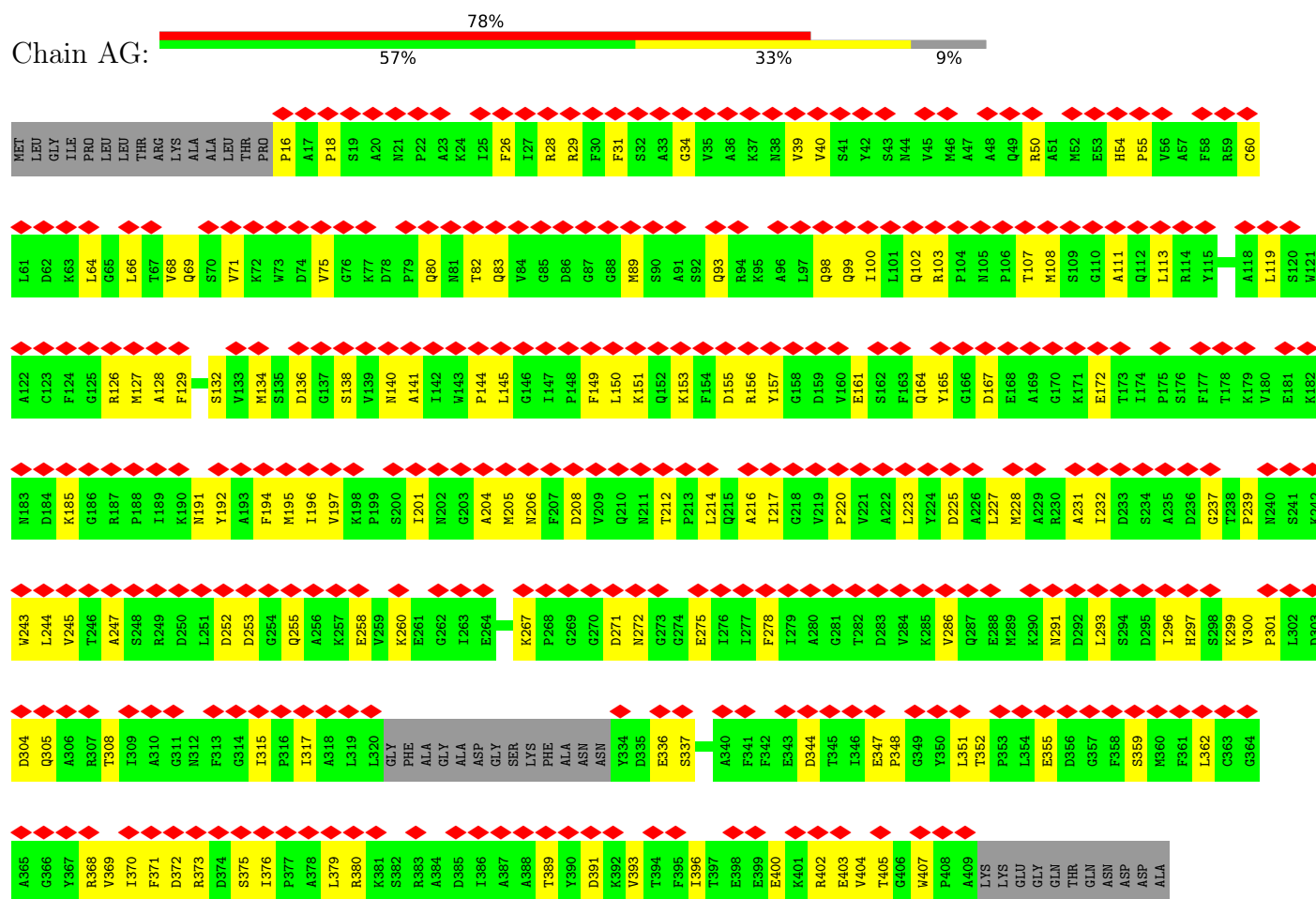


• Molecule 8: Portal protein, gp7



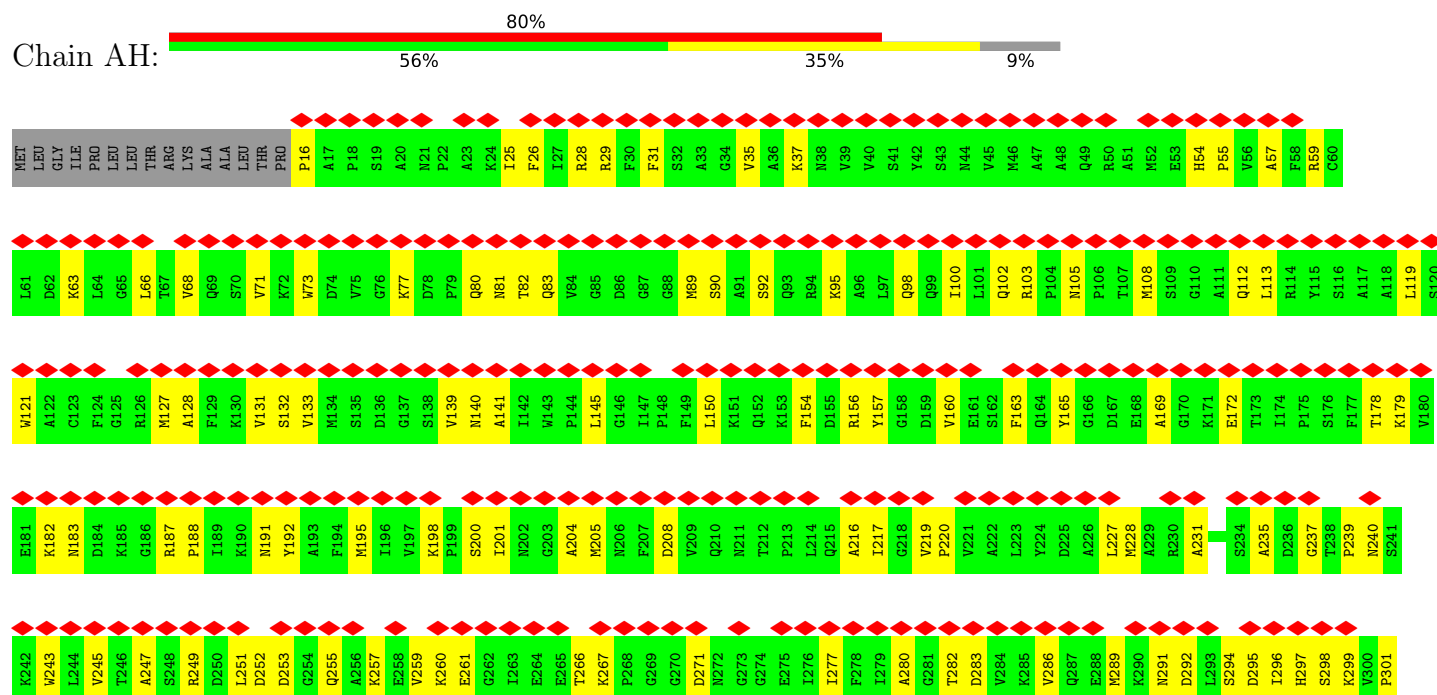
- Molecule 8: Portal protein, gp7

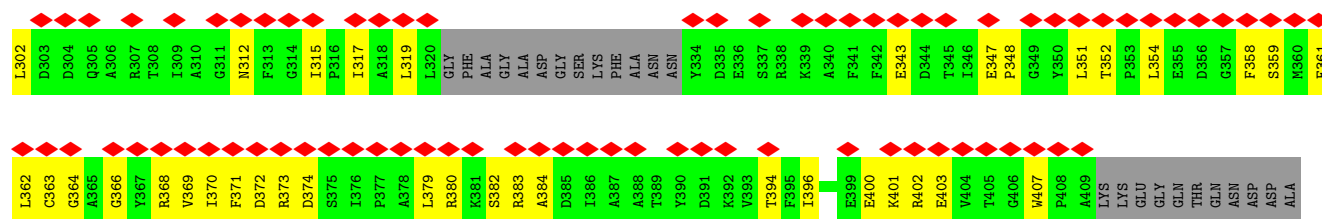
Chain AG:



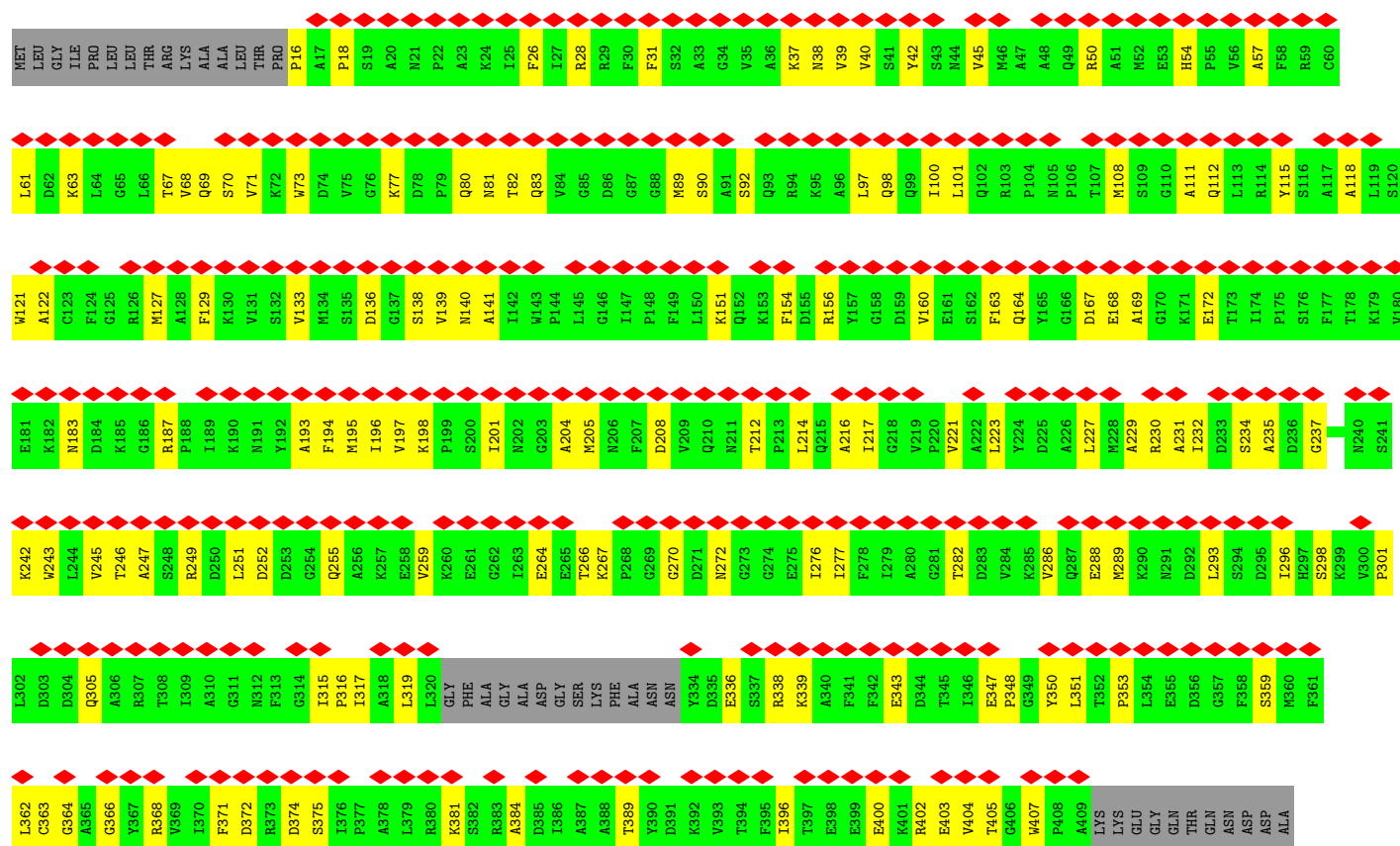
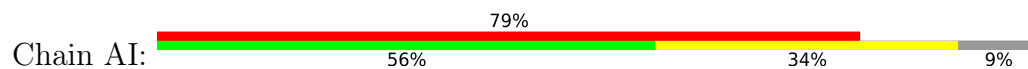
- Molecule 8: Portal protein, gp7

Chain AH:

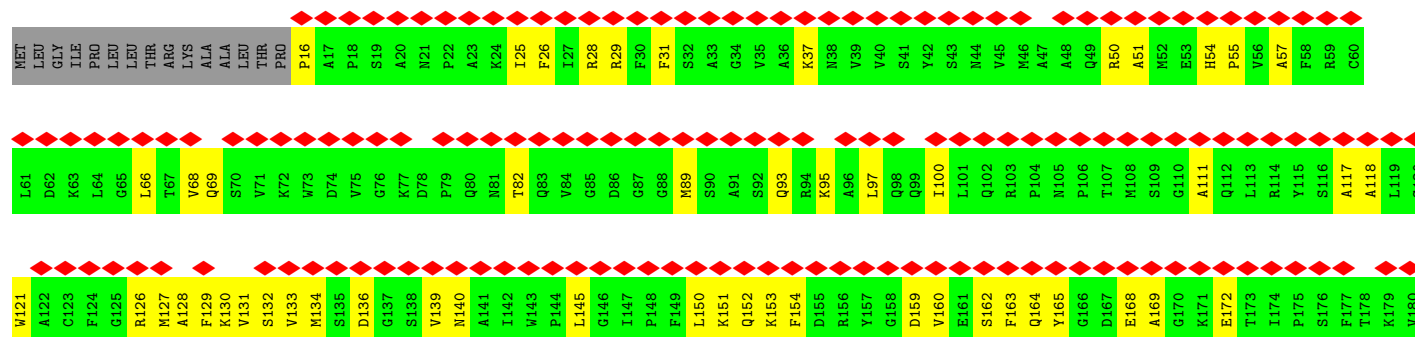
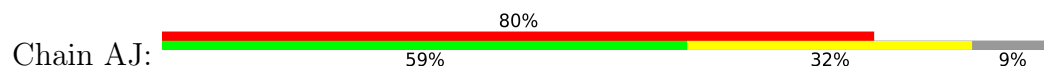


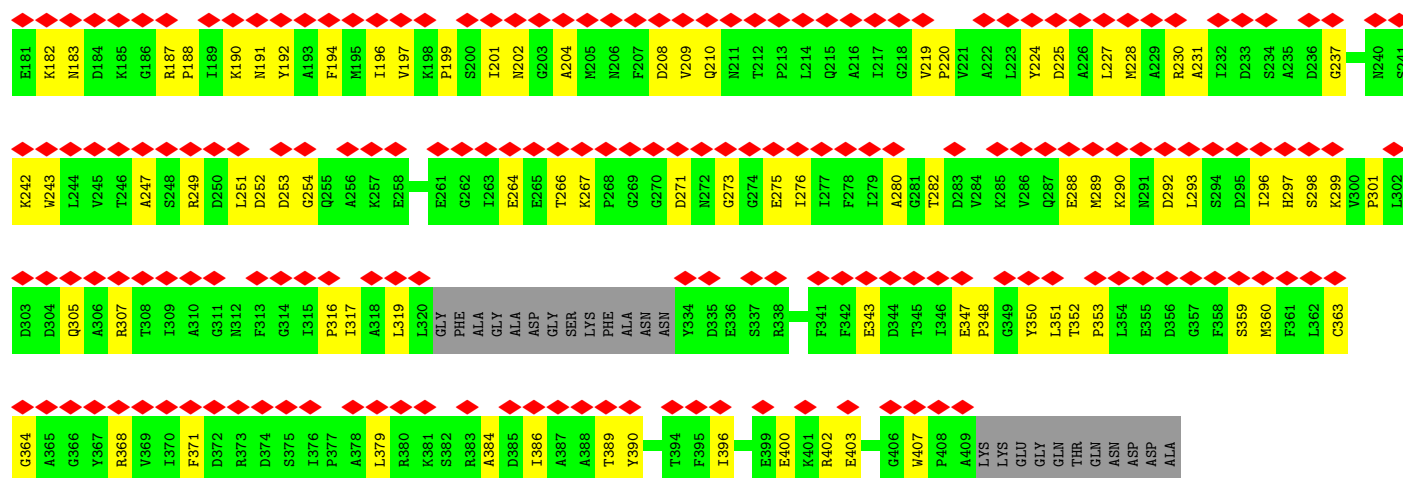


• Molecule 8: Portal protein, gp7

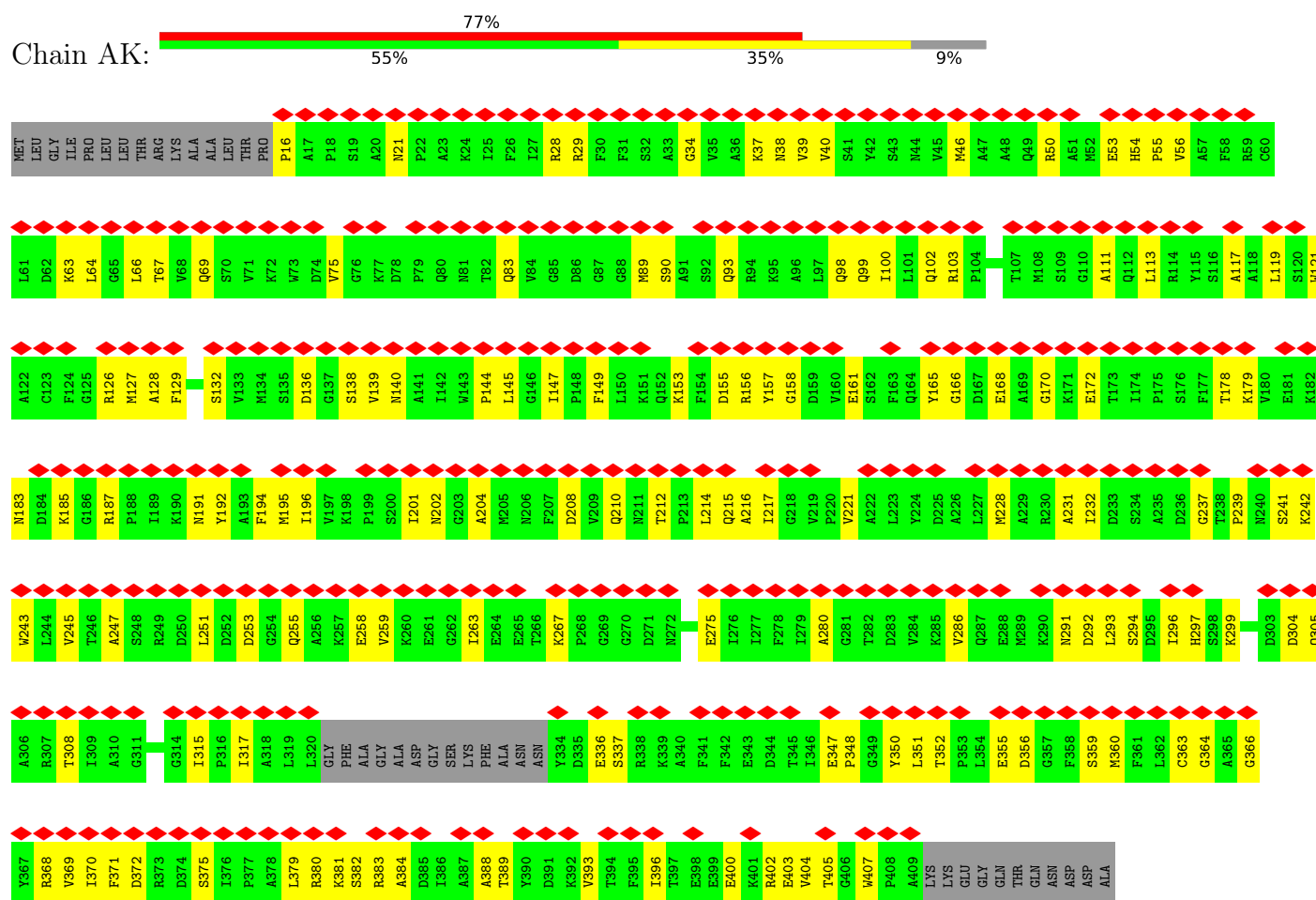


• Molecule 8: Portal protein, gp7

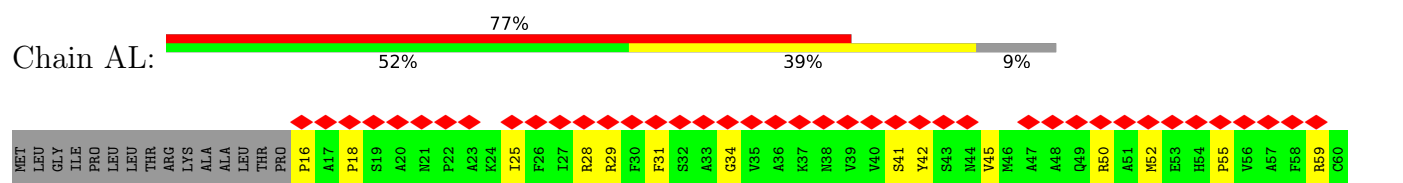


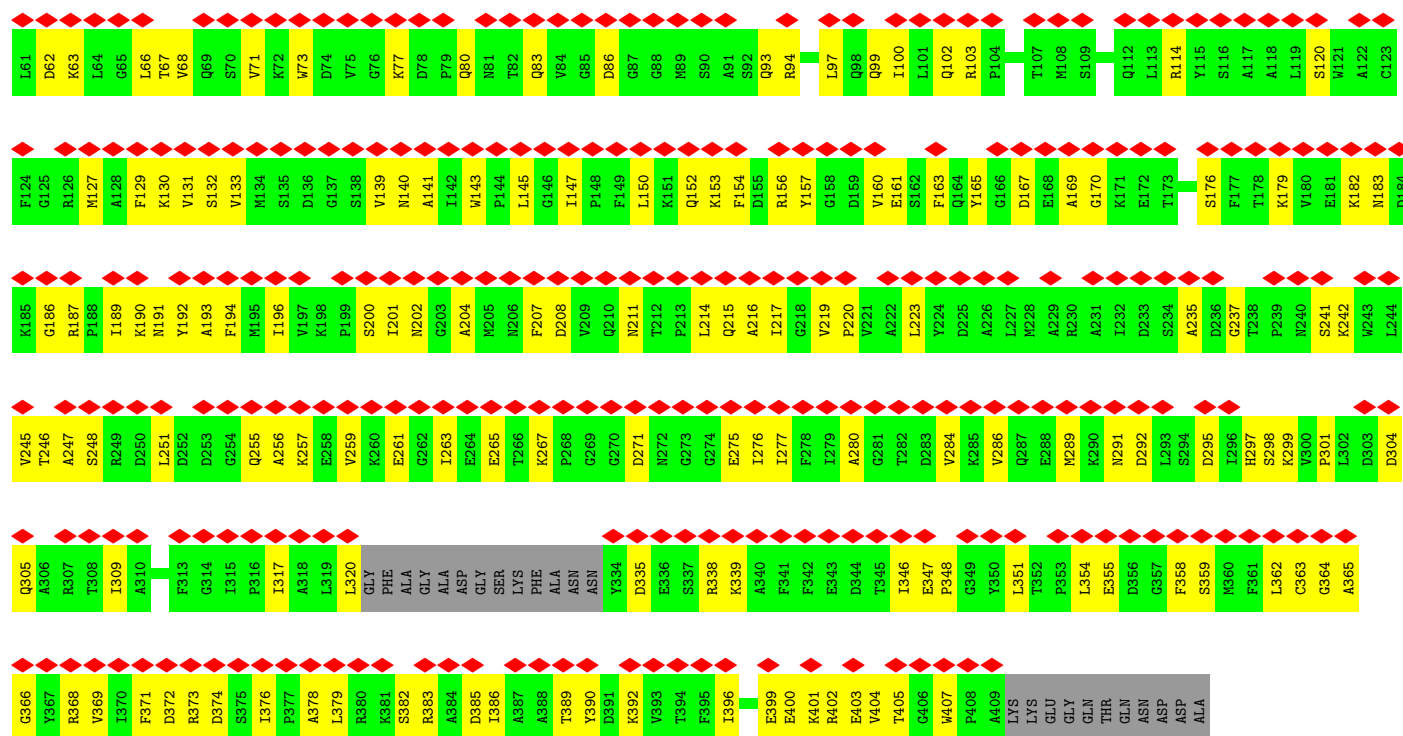


• Molecule 8: Portal protein, gp7

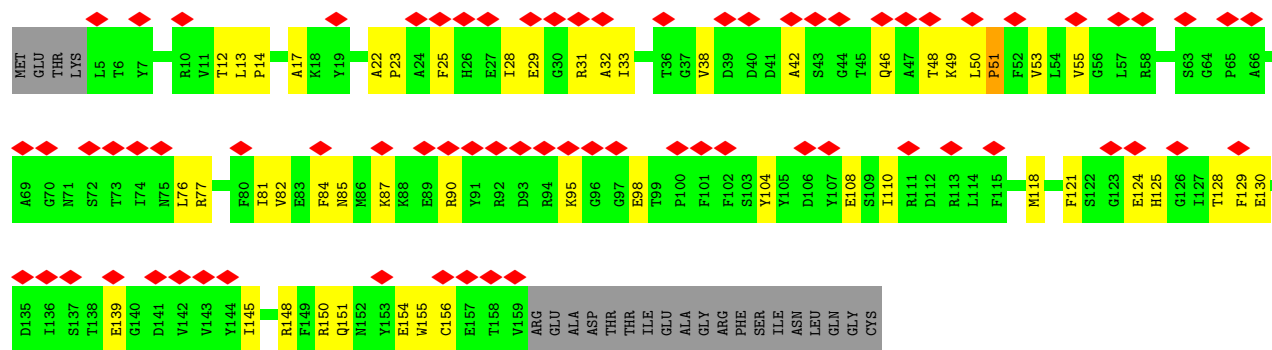
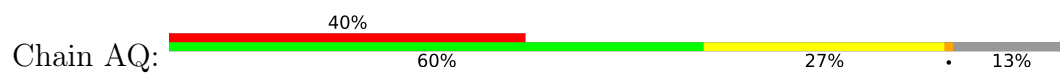


• Molecule 8: Portal protein, gp7

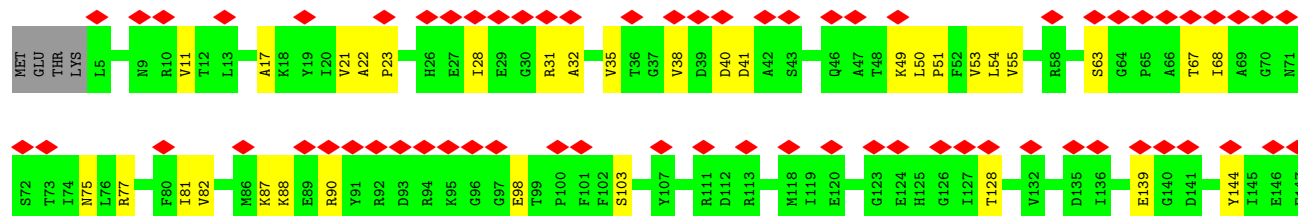
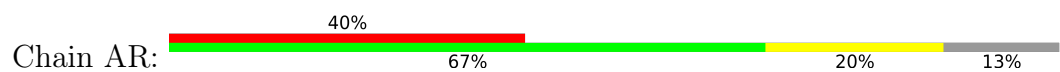


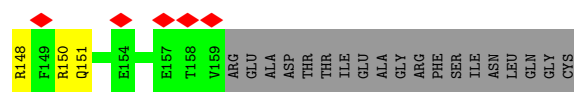


• Molecule 9: Tail-terminator protein, gp18

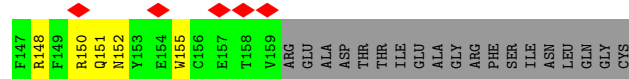
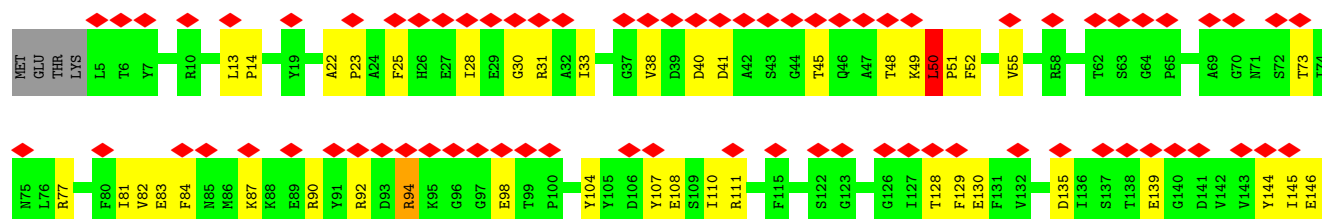


• Molecule 9: Tail-terminator protein, gp18

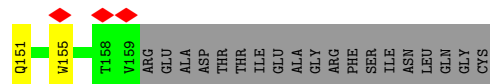
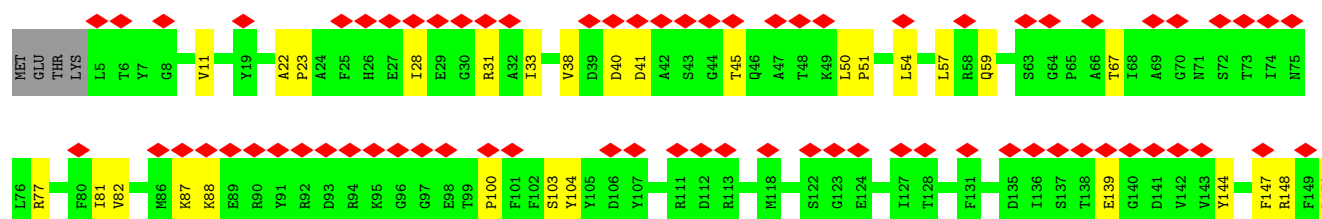
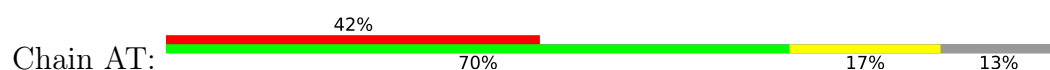




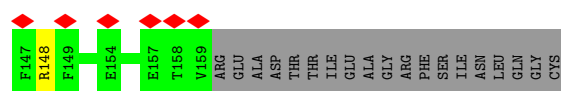
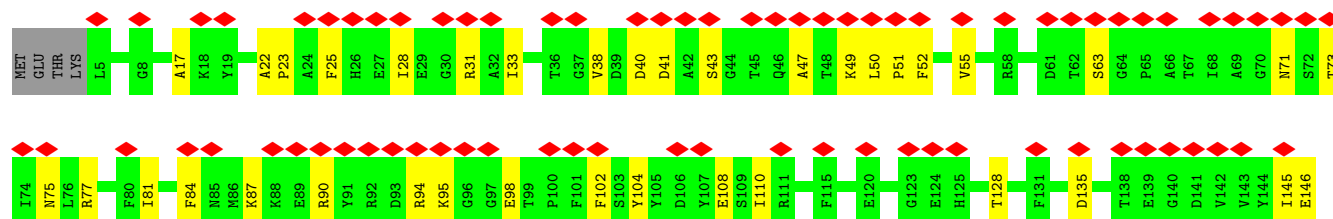
- Molecule 9: Tail-terminator protein, gp18



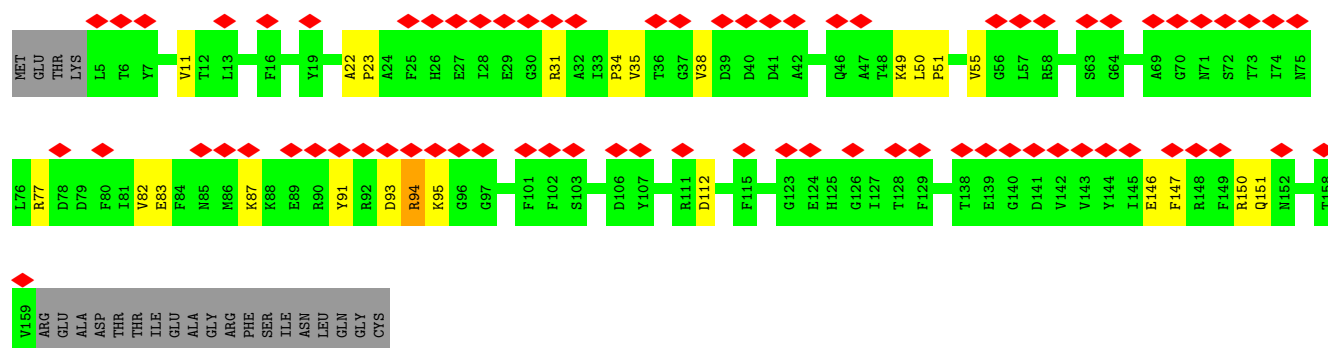
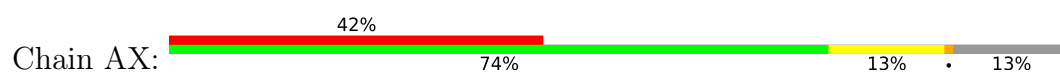
- Molecule 9: Tail-terminator protein, gp18



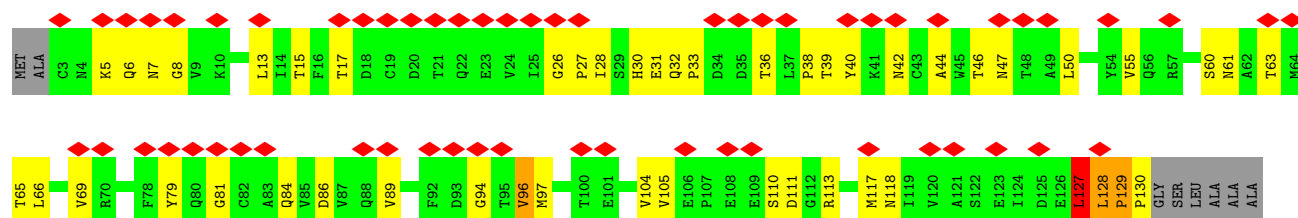
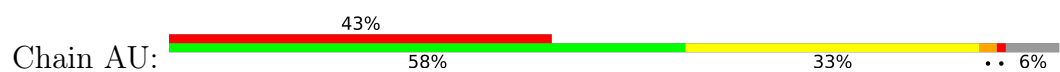
- Molecule 9: Tail-terminator protein, gp18



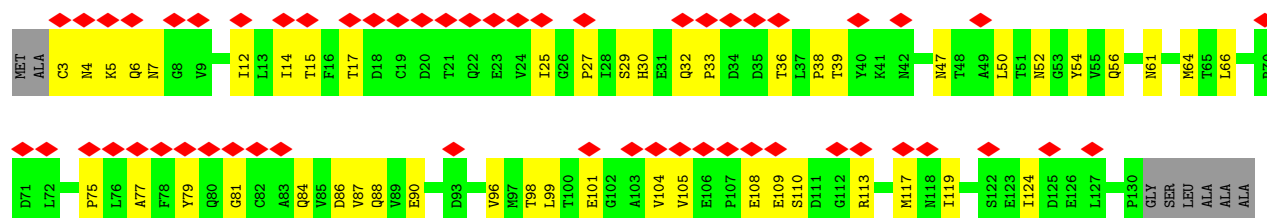
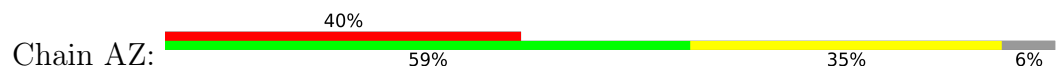
- Molecule 9: Tail-terminator protein, gp18



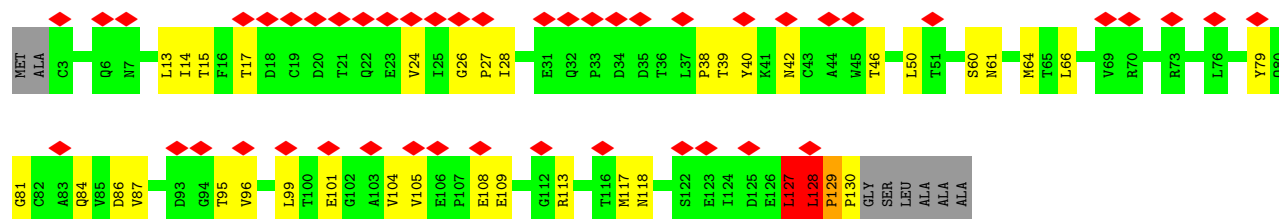
- Molecule 10: Tail-tube, gp21



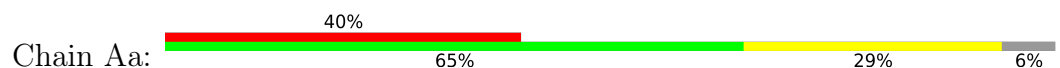
- Molecule 10: Tail-tube, gp21

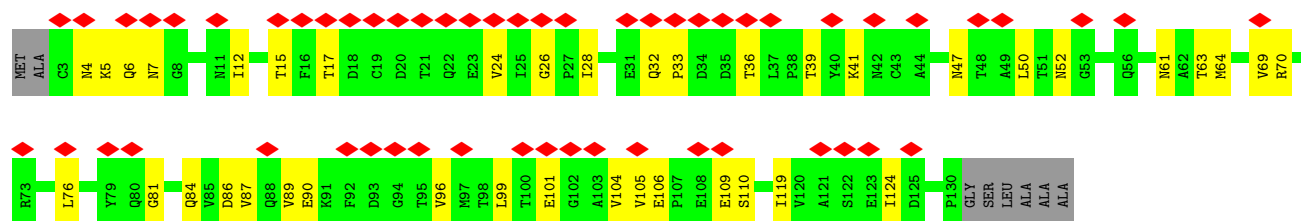


- Molecule 10: Tail-tube, gp21



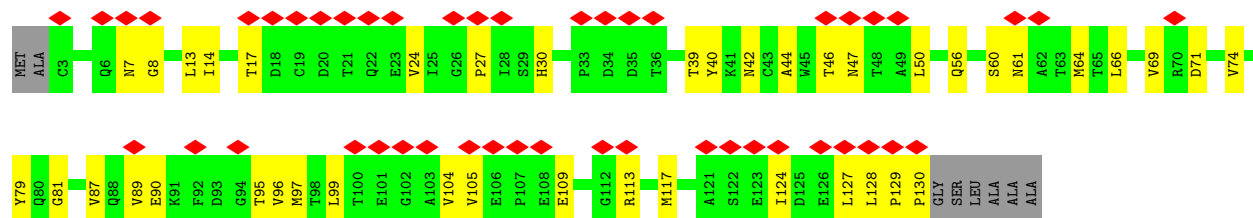
- Molecule 10: Tail-tube, gp21





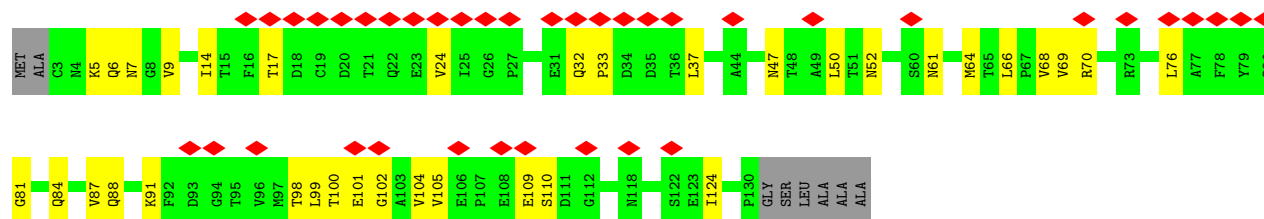
- Molecule 10: Tail-tube, gp21

Chain AY:



- Molecule 10: Tail-tube, gp21

Chain Ab:



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	10083	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 ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.483	Depositor
Minimum map value	-0.270	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.034	Depositor
Recommended contour level	0.125	Depositor
Map size ($\text{\AA}$)	648.0, 648.0, 648.0	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.08, 1.08, 1.08	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	a1	0.16	0/213	0.41	0/288
1	a2	0.18	0/213	0.45	0/288
1	a5	0.22	0/213	0.48	0/288
1	a6	0.28	0/213	0.54	0/288
1	a7	0.22	0/213	0.45	0/288
1	b1	0.14	0/213	0.41	0/288
1	b2	0.22	0/213	0.45	0/288
1	b5	0.12	0/213	0.37	0/288
1	b6	0.15	0/213	0.39	0/288
1	b7	0.17	0/213	0.48	0/288
1	c	0.26	0/252	0.48	0/344
1	d	0.40	0/252	0.54	0/344
1	d1	0.19	0/252	0.55	0/344
1	d2	0.20	0/252	0.56	0/344
1	d5	0.21	0/252	0.63	0/344
1	d6	0.29	0/252	0.64	0/344
1	d7	0.25	0/252	0.71	0/344
1	e	0.52	1/252 (0.4%)	0.61	1/344 (0.3%)
1	e1	0.17	0/213	0.53	0/288
1	e2	0.16	0/213	0.47	0/288
1	e5	0.16	0/213	0.48	0/288
1	e6	0.17	0/213	0.45	0/288
1	e7	0.18	0/213	0.56	0/288
1	f	0.32	0/252	0.81	2/344 (0.6%)
1	g	0.35	0/252	0.61	0/344
2	a	0.50	1/1382 (0.1%)	0.62	3/1875 (0.2%)
2	b	0.19	0/1542	0.47	0/2096
2	h	0.19	0/1358	0.56	0/1842
2	i	0.19	0/1520	0.57	0/2068
2	j	0.21	0/1542	0.60	2/2096 (0.1%)
2	k	0.22	0/1358	0.62	0/1842
2	l	0.18	0/1358	0.48	2/1842 (0.1%)
2	m	0.22	0/1519	0.56	0/2063
2	n	0.19	0/1542	0.51	0/2096

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	o	0.15	0/1358	0.47	0/1842
2	p	0.17	0/1358	0.46	0/1842
2	q	0.17	0/1358	0.47	0/1842
3	AM	0.17	0/1017	0.42	0/1381
3	AN	0.16	0/1017	0.41	0/1381
3	AO	0.22	0/1017	0.48	1/1381 (0.1%)
3	AP	0.15	0/1017	0.42	1/1381 (0.1%)
3	H	0.16	0/1017	0.40	0/1381
3	I	0.13	0/1017	0.39	0/1381
4	f1	0.13	0/142	0.52	0/192
4	f2	0.18	0/142	0.51	0/192
4	f5	0.19	0/142	0.52	0/192
4	f6	0.11	0/142	0.43	0/192
4	f7	0.18	0/142	0.53	0/192
5	g1	0.13	0/2344	0.39	0/3171
5	g2	0.14	0/2344	0.43	0/3171
5	g5	0.16	0/2344	0.43	1/3171 (0.0%)
5	g6	0.13	0/2344	0.39	0/3171
5	g7	0.13	0/2344	0.38	0/3171
5	h1	0.19	0/2344	0.46	1/3171 (0.0%)
5	h2	0.18	0/2344	0.45	0/3171
5	h5	0.17	0/2344	0.41	0/3171
5	h6	0.14	0/2344	0.44	2/3171 (0.1%)
5	h7	0.14	0/2344	0.41	0/3171
5	k1	0.12	0/2313	0.37	0/3128
5	k2	0.12	0/2313	0.39	0/3128
5	k5	0.13	0/2313	0.38	0/3128
5	k6	0.12	0/2313	0.39	0/3128
5	k7	0.14	0/2313	0.42	0/3128
5	n1	0.15	0/2344	0.42	1/3171 (0.0%)
5	n2	0.17	0/2344	0.45	1/3171 (0.0%)
5	n5	0.16	0/2344	0.42	1/3171 (0.0%)
5	n6	0.12	0/2344	0.41	0/3171
5	n7	0.12	0/2344	0.39	0/3171
5	o1	0.14	0/2344	0.40	0/3171
5	o2	0.13	0/2344	0.40	0/3171
5	o5	0.15	0/2344	0.41	0/3171
5	o6	0.13	0/2344	0.40	0/3171
5	o7	0.15	0/2344	0.42	0/3171
5	r1	0.13	0/2344	0.42	0/3171
5	r2	0.14	0/2344	0.40	0/3171
5	r5	0.13	0/2344	0.40	0/3171
5	r6	0.13	0/2344	0.38	0/3171

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	r7	0.16	0/2344	0.48	0/3171
6	l1	0.15	0/1052	0.42	0/1443
6	l2	0.18	0/1052	0.49	2/1443 (0.1%)
6	l5	0.22	0/1052	0.43	0/1443
6	l6	0.15	0/1052	0.43	0/1443
6	l7	0.19	0/1052	0.50	2/1443 (0.1%)
6	m1	0.12	0/1052	0.38	0/1443
6	m2	0.13	0/1052	0.37	0/1443
6	m5	0.14	0/1052	0.42	0/1443
6	m6	0.13	0/1052	0.37	0/1443
6	m7	0.13	0/1052	0.37	0/1443
6	p1	0.14	0/1052	0.42	0/1443
6	p2	0.16	0/1052	0.41	0/1443
6	p5	0.13	0/1052	0.40	0/1443
6	p6	0.13	0/1052	0.41	0/1443
6	p7	0.15	0/1052	0.41	0/1443
6	q1	0.12	0/1052	0.38	0/1443
6	q2	0.12	0/1052	0.38	0/1443
6	q5	0.13	0/1052	0.37	0/1443
6	q6	0.17	0/1052	0.41	0/1443
6	q7	0.16	0/1052	0.40	0/1443
6	s1	0.13	0/1052	0.39	1/1443 (0.1%)
6	s2	0.24	1/1052 (0.1%)	0.40	0/1443
6	s5	0.16	0/1052	0.38	0/1443
6	s6	0.13	0/1052	0.37	0/1443
6	s7	0.22	1/1052 (0.1%)	0.38	1/1443 (0.1%)
6	t1	0.14	0/1052	0.42	1/1443 (0.1%)
6	t2	0.14	0/1052	0.42	1/1443 (0.1%)
6	t5	0.14	0/1052	0.43	1/1443 (0.1%)
6	t6	0.14	0/1052	0.41	0/1443
6	t7	0.16	0/1052	0.45	0/1443
6	u1	0.11	0/1040	0.37	0/1429
6	u2	0.13	0/1040	0.45	0/1429
6	u5	0.11	0/1040	0.37	0/1429
6	u6	0.13	0/1040	0.39	0/1429
6	u7	0.12	0/1040	0.39	0/1429
6	v1	0.15	0/1040	0.42	0/1429
6	v2	0.14	0/1040	0.40	0/1429
6	v5	0.14	0/1040	0.38	0/1429
6	v6	0.14	0/1040	0.41	0/1429
6	v7	0.17	0/1040	0.43	0/1429
7	03	0.11	0/1723	0.33	0/2353
7	13	0.12	0/1723	0.34	0/2353

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	23	0.13	0/1723	0.34	0/2353
7	33	0.12	0/1723	0.31	0/2353
7	43	0.12	0/1723	0.34	0/2353
7	53	0.16	0/1723	0.36	0/2353
7	63	0.12	0/1723	0.32	0/2353
7	73	0.12	0/1723	0.34	0/2353
7	83	0.13	0/1723	0.34	0/2353
7	93	0.11	0/1723	0.33	0/2353
7	A3	0.16	0/1723	0.35	0/2353
7	B3	0.12	0/1723	0.32	0/2353
7	C3	0.11	0/1723	0.32	0/2353
7	D3	0.12	0/1723	0.34	0/2353
7	E3	0.11	0/1723	0.31	0/2353
7	F3	0.11	0/1723	0.32	0/2353
7	G3	0.18	0/1723	0.43	0/2353
7	J3	0.13	0/1723	0.36	0/2353
7	K3	0.15	0/1768	0.37	0/2414
7	L3	0.12	0/1723	0.34	0/2353
7	M3	0.15	0/1723	0.37	0/2353
7	N3	0.14	0/1768	0.38	0/2414
7	O3	0.12	0/1723	0.34	0/2353
7	P3	0.15	0/1717	0.37	0/2345
7	Q3	0.17	0/1768	0.40	0/2414
7	R3	0.16	0/1723	0.38	0/2353
7	S3	0.14	0/1717	0.36	0/2345
7	T3	0.14	0/1723	0.36	0/2353
7	U3	0.14	0/1712	0.39	0/2338
7	V3	0.17	0/1723	0.42	2/2353 (0.1%)
7	W3	0.17	0/1768	0.43	0/2414
7	X3	0.12	0/1723	0.35	0/2353
7	Y3	0.13	0/1723	0.36	0/2353
7	Z3	0.12	0/1723	0.34	0/2353
7	a3	0.14	0/1723	0.36	0/2353
7	b3	0.13	0/1723	0.36	0/2353
7	c3	0.12	0/1723	0.33	0/2353
7	d3	0.12	0/1723	0.35	0/2353
7	e3	0.13	0/1723	0.37	0/2353
7	f3	0.18	0/1723	0.43	1/2353 (0.0%)
7	g3	0.13	0/1723	0.35	0/2353
7	h3	0.12	0/1723	0.33	0/2353
7	i3	0.12	0/1723	0.35	0/2353
7	j3	0.17	0/1723	0.37	0/2353
7	k3	0.13	0/1723	0.37	0/2353

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	l3	0.13	0/1723	0.35	0/2353
7	m3	0.12	0/1723	0.32	0/2353
7	n3	0.13	0/1723	0.34	0/2353
7	o3	0.13	0/1723	0.35	0/2353
7	p3	0.13	0/1723	0.35	0/2353
7	q3	0.12	0/1723	0.33	0/2353
7	r3	0.12	0/1723	0.34	0/2353
7	s3	0.13	0/1723	0.35	0/2353
7	t3	0.13	0/1723	0.34	0/2353
7	u3	0.11	0/1723	0.33	0/2353
7	v3	0.12	0/1723	0.36	0/2353
7	w3	0.12	0/1723	0.34	0/2353
7	x3	0.12	0/1723	0.33	0/2353
7	y3	0.12	0/1723	0.34	0/2353
7	z3	0.12	0/1723	0.33	0/2353
8	AA	0.16	0/3000	0.43	0/4056
8	AB	0.16	0/3000	0.43	0/4056
8	AC	0.14	0/3000	0.41	0/4056
8	AD	0.14	0/3000	0.42	0/4056
8	AE	0.19	0/3000	0.47	2/4056 (0.0%)
8	AF	0.15	0/3000	0.44	0/4056
8	AG	0.15	0/3000	0.41	0/4056
8	AH	0.14	0/3000	0.42	0/4056
8	AI	0.15	0/3000	0.42	0/4056
8	AJ	0.16	0/3000	0.45	1/4056 (0.0%)
8	AK	0.14	0/3000	0.40	0/4056
8	AL	0.19	0/3000	0.50	0/4056
9	AQ	0.13	0/1281	0.37	0/1734
9	AR	0.13	0/1281	0.36	0/1734
9	AS	0.16	0/1281	0.40	0/1734
9	AT	0.12	0/1281	0.38	0/1734
9	AW	0.13	0/1281	0.38	1/1734 (0.1%)
9	AX	0.16	0/1281	0.46	0/1734
10	AU	0.15	0/993	0.41	1/1358 (0.1%)
10	AV	0.16	0/993	0.40	1/1358 (0.1%)
10	AY	0.16	0/993	0.38	0/1358
10	AZ	0.14	0/993	0.41	0/1358
10	Aa	0.13	0/993	0.34	0/1358
10	Ab	0.14	0/993	0.37	0/1358
All	All	0.15	4/295028 (0.0%)	0.41	37/401464 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	a	49	THR	C-O	13.37	1.30	1.23
1	e	21	PRO	CA-C	-7.23	1.48	1.51
6	s2	9	PHE	C-O	6.31	1.26	1.23
6	s7	9	PHE	C-O	-5.55	1.21	1.23

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	j	145	ILE	N-CA-C	-8.66	105.48	113.71
8	AE	272	ASN	N-CA-C	-8.37	97.07	109.62
5	g5	300	GLU	N-CA-C	-8.25	102.22	111.71
7	V3	10	ASN	N-CA-C	-7.14	105.40	112.97
10	AV	127	LEU	N-CA-C	-6.99	103.89	113.18
2	a	49	THR	CA-C-N	6.65	126.10	118.85
2	a	49	THR	C-N-CA	6.65	126.10	118.85
7	V3	11	GLY	N-CA-C	-6.63	104.09	114.10
3	AP	47	PHE	N-CA-C	6.54	118.20	111.14
2	j	42	LEU	N-CA-C	-6.23	106.31	114.04
3	AO	50	ASP	N-CA-C	-6.17	97.66	110.80
8	AE	271	ASP	N-CA-C	-6.13	97.75	110.80
2	l	76	GLY	CA-C-N	-6.08	109.39	120.94
2	l	76	GLY	C-N-CA	-6.08	109.39	120.94
8	AJ	254	GLY	N-CA-C	-6.04	107.12	113.58
6	s1	96	ASP	N-CA-C	-6.01	103.32	110.41
5	h6	189	GLU	CA-C-N	-5.96	115.34	122.44
5	h6	189	GLU	C-N-CA	-5.96	115.34	122.44
6	l7	53	GLU	CA-C-N	-5.92	113.43	119.83
6	l7	53	GLU	C-N-CA	-5.92	113.43	119.83
5	n2	305	VAL	N-CA-C	5.80	116.29	108.17
1	f	21	PRO	CA-C-N	-5.73	114.69	120.31
1	f	21	PRO	C-N-CA	-5.73	114.69	120.31
5	h1	189	GLU	N-CA-C	-5.54	99.00	110.80
1	e	21	PRO	O-C-N	-5.50	118.78	121.31
10	AU	127	LEU	N-CA-C	-5.43	105.96	113.18
7	f3	54	THR	N-CA-C	5.40	122.31	110.80
5	n1	305	VAL	N-CA-C	5.36	116.20	108.48
5	n5	397	GLY	N-CA-C	5.34	117.32	110.96
6	t2	134	GLY	N-CA-C	5.29	125.71	113.18
6	l2	100	ALA	CA-C-N	-5.23	117.81	122.47
6	l2	100	ALA	C-N-CA	-5.23	117.81	122.47
6	t5	134	GLY	N-CA-C	5.22	125.56	113.18
6	s7	7	VAL	N-CA-C	-5.16	106.87	112.80
9	AW	95	LYS	N-CA-C	-5.08	106.09	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	a	178	ILE	N-CA-C	-5.08	107.52	112.29
6	t1	134	GLY	N-CA-C	5.06	125.18	113.18

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	a1	209	0	222	6	0
1	a2	209	0	222	9	0
1	a5	209	0	222	9	0
1	a6	209	0	223	15	0
1	a7	209	0	223	10	0
1	b1	209	0	222	8	0
1	b2	209	0	222	7	0
1	b5	209	0	222	6	0
1	b6	209	0	222	6	0
1	b7	209	0	222	7	0
1	c	246	0	260	19	0
1	d	246	0	260	15	0
1	d1	246	0	260	10	0
1	d2	246	0	260	8	0
1	d5	246	0	260	9	0
1	d6	246	0	261	15	0
1	d7	246	0	261	9	0
1	e	246	0	260	18	0
1	e1	209	0	222	9	0
1	e2	209	0	222	10	0
1	e5	209	0	222	16	0
1	e6	209	0	222	10	0
1	e7	209	0	222	12	0
1	f	246	0	260	23	0
1	g	246	0	260	16	0
2	a	1357	0	1384	97	0
2	b	1509	0	1508	75	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	h	1333	0	1363	63	0
2	i	1487	0	1481	77	0
2	j	1509	0	1507	88	0
2	k	1333	0	1363	75	0
2	l	1333	0	1363	92	0
2	m	1486	0	1479	80	0
2	n	1509	0	1507	90	0
2	o	1333	0	1363	60	0
2	p	1333	0	1363	72	0
2	q	1333	0	1363	58	0
3	AM	997	0	999	38	0
3	AN	997	0	999	48	0
3	AO	997	0	999	45	0
3	AP	997	0	999	37	0
3	H	997	0	999	42	0
3	I	997	0	999	43	0
4	f1	140	0	144	10	0
4	f2	140	0	144	12	0
4	f5	140	0	144	7	0
4	f6	140	0	144	9	0
4	f7	140	0	144	6	0
5	g1	2286	0	2154	60	0
5	g2	2286	0	2155	51	0
5	g5	2286	0	2156	58	0
5	g6	2286	0	2154	58	0
5	g7	2286	0	2154	59	0
5	h1	2286	0	2153	68	0
5	h2	2286	0	2153	75	0
5	h5	2286	0	2152	58	0
5	h6	2286	0	2152	70	0
5	h7	2286	0	2152	65	0
5	k1	2257	0	2129	58	0
5	k2	2257	0	2128	68	0
5	k5	2257	0	2129	57	0
5	k6	2257	0	2128	62	0
5	k7	2257	0	2128	57	0
5	n1	2286	0	2153	58	0
5	n2	2286	0	2153	67	0
5	n5	2286	0	2153	60	0
5	n6	2286	0	2153	59	0
5	n7	2286	0	2153	65	0
5	o1	2286	0	2154	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	o2	2286	0	2154	63	0
5	o5	2286	0	2154	67	0
5	o6	2286	0	2154	73	0
5	o7	2286	0	2154	54	0
5	r1	2286	0	2155	69	0
5	r2	2286	0	2155	57	0
5	r5	2286	0	2155	64	0
5	r6	2286	0	2155	59	0
5	r7	2286	0	2155	69	0
6	l1	1023	0	972	27	0
6	l2	1023	0	972	23	0
6	l5	1023	0	972	36	0
6	l6	1023	0	972	32	0
6	l7	1023	0	972	34	0
6	m1	1023	0	973	25	0
6	m2	1023	0	973	24	0
6	m5	1023	0	973	24	0
6	m6	1023	0	973	30	0
6	m7	1023	0	973	25	0
6	p1	1023	0	974	27	0
6	p2	1023	0	974	32	0
6	p5	1023	0	974	31	0
6	p6	1023	0	974	27	0
6	p7	1023	0	974	40	0
6	q1	1023	0	974	22	0
6	q2	1023	0	974	30	0
6	q5	1023	0	974	33	0
6	q6	1023	0	974	30	0
6	q7	1023	0	974	33	0
6	s1	1023	0	974	33	0
6	s2	1023	0	974	37	0
6	s5	1023	0	974	38	0
6	s6	1023	0	974	48	0
6	s7	1023	0	974	37	0
6	t1	1023	0	975	26	0
6	t2	1023	0	975	29	0
6	t5	1023	0	975	27	0
6	t6	1023	0	975	26	0
6	t7	1023	0	975	27	0
6	u1	1011	0	961	24	0
6	u2	1011	0	961	30	0
6	u5	1011	0	961	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	u6	1011	0	961	31	0
6	u7	1011	0	961	34	0
6	v1	1011	0	961	32	0
6	v2	1011	0	961	30	0
6	v5	1011	0	961	28	0
6	v6	1011	0	961	37	0
6	v7	1011	0	961	34	0
7	03	1679	0	1610	34	0
7	13	1679	0	1610	27	0
7	23	1679	0	1610	27	0
7	33	1679	0	1610	36	0
7	43	1679	0	1610	33	0
7	53	1679	0	1610	34	0
7	63	1679	0	1610	36	0
7	73	1679	0	1610	35	0
7	83	1679	0	1610	35	0
7	93	1679	0	1610	35	0
7	A3	1679	0	1610	28	0
7	B3	1679	0	1610	43	0
7	C3	1679	0	1610	37	0
7	D3	1679	0	1610	30	0
7	E3	1679	0	1610	37	0
7	F3	1679	0	1610	32	0
7	G3	1679	0	1612	36	0
7	J3	1679	0	1610	34	0
7	K3	1723	0	1653	43	0
7	L3	1679	0	1610	32	0
7	M3	1679	0	1610	31	0
7	N3	1723	0	1654	35	0
7	O3	1679	0	1611	44	0
7	P3	1673	0	1605	32	0
7	Q3	1723	0	1653	46	0
7	R3	1679	0	1610	33	0
7	S3	1673	0	1605	36	0
7	T3	1679	0	1610	35	0
7	U3	1668	0	1600	37	0
7	V3	1679	0	1610	37	0
7	W3	1723	0	1655	46	0
7	X3	1679	0	1611	36	0
7	Y3	1679	0	1609	30	0
7	Z3	1679	0	1609	30	0
7	a3	1679	0	1609	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	b3	1679	0	1609	30	0
7	c3	1679	0	1609	35	0
7	d3	1679	0	1609	39	0
7	e3	1679	0	1609	37	0
7	f3	1679	0	1609	44	0
7	g3	1679	0	1609	39	0
7	h3	1679	0	1609	36	0
7	i3	1679	0	1609	43	0
7	j3	1679	0	1609	36	0
7	k3	1679	0	1609	39	0
7	l3	1679	0	1610	37	0
7	m3	1679	0	1609	34	0
7	n3	1679	0	1609	30	0
7	o3	1679	0	1609	30	0
7	p3	1679	0	1609	31	0
7	q3	1679	0	1609	23	0
7	r3	1679	0	1609	30	0
7	s3	1679	0	1609	31	0
7	t3	1679	0	1609	27	0
7	u3	1679	0	1609	28	0
7	v3	1679	0	1609	27	0
7	w3	1679	0	1609	34	0
7	x3	1679	0	1610	24	0
7	y3	1679	0	1610	29	0
7	z3	1679	0	1609	25	0
8	AA	2938	0	2906	118	0
8	AB	2938	0	2906	136	0
8	AC	2938	0	2906	127	0
8	AD	2938	0	2906	131	0
8	AE	2938	0	2906	155	0
8	AF	2938	0	2906	151	0
8	AG	2938	0	2906	121	0
8	AH	2938	0	2906	125	0
8	AI	2938	0	2906	122	0
8	AJ	2938	0	2906	117	0
8	AK	2938	0	2906	123	0
8	AL	2938	0	2906	146	0
9	AQ	1251	0	1189	40	0
9	AR	1251	0	1189	26	0
9	AS	1251	0	1189	42	0
9	AT	1251	0	1189	24	0
9	AW	1251	0	1189	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	AX	1251	0	1189	21	0
10	AU	977	0	949	40	0
10	AV	977	0	949	33	0
10	AY	977	0	949	33	0
10	AZ	977	0	949	43	0
10	Aa	977	0	949	32	0
10	Ab	977	0	949	31	0
All	All	287884	0	277433	7210	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 13.

All (7210) 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)
2:o:51:GLU:HA	2:o:133:GLY:HA3	1.43	0.99
8:AL:28:ARG:HG3	8:AL:29:ARG:H	1.36	0.90
5:g1:333:PHE:HA	5:g1:460:ARG:HH12	1.36	0.90
5:n6:291:VAL:HG11	6:p6:108:GLY:H	1.38	0.89
2:p:69:LEU:HD22	2:p:73:PRO:HD3	1.55	0.89
5:h6:201:GLU:HG3	8:AI:167:ASP:HB3	1.56	0.88
5:n7:291:VAL:HG11	6:p7:108:GLY:H	1.38	0.87
8:AC:69:GLN:HE21	8:AC:111:ALA:HB1	1.39	0.86
6:p2:127:GLN:HE21	6:q2:13:ILE:HB	1.42	0.84
8:AC:220:PRO:HB2	8:AC:309:ILE:HD11	1.59	0.84
8:AJ:168:GLU:HG2	8:AJ:169:ALA:H	1.43	0.84
5:h6:199:GLN:HB2	8:AI:168:GLU:HB2	1.60	0.84
2:j:158:ASN:HD22	2:j:164:MET:HE3	1.42	0.83
6:s2:127:GLN:HG2	6:t2:13:ILE:HD13	1.60	0.83
5:o7:218:LEU:HA	5:o7:232:GLY:HA3	1.59	0.83
8:AG:28:ARG:HG3	8:AG:29:ARG:H	1.42	0.83
8:AF:69:GLN:HE21	8:AF:111:ALA:HB1	1.44	0.83
2:n:46:LEU:HD11	2:n:135:ARG:HD3	1.60	0.82
6:u5:54:PRO:HD3	6:u5:109:GLN:HG3	1.59	0.82
7:V3:10:ASN:HD22	7:V3:12:ALA:HB3	1.42	0.82
2:l:166:VAL:HG21	2:i:177:LEU:HD21	1.61	0.82
5:g1:389:PRO:HG3	5:g1:409:VAL:HA	1.61	0.81
2:q:51:GLU:HA	2:q:133:GLY:HA3	1.60	0.81
6:s7:23:VAL:HG11	6:s7:130:VAL:HG21	1.62	0.81
5:h7:190:CYS:SG	5:h7:191:ALA:N	2.52	0.81
2:a:50:PRO:HD2	2:a:135:ARG:HE	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l6:52:HIS:HB2	6:l6:110:TRP:HB2	1.61	0.81
8:AB:220:PRO:HB2	8:AB:309:ILE:HD11	1.63	0.81
5:g6:375:LEU:HD12	5:g6:380:ILE:HB	1.62	0.81
5:g1:375:LEU:HD12	5:g1:380:ILE:HB	1.62	0.80
5:g5:389:PRO:HG3	5:g5:409:VAL:HA	1.63	0.80
6:u6:127:GLN:HE21	6:v6:13:ILE:HB	1.45	0.80
8:AG:212:THR:HG22	8:AG:214:LEU:H	1.46	0.80
2:j:110:ARG:HB2	5:h6:239:HIS:HB2	1.63	0.80
8:AD:28:ARG:HG3	8:AD:29:ARG:H	1.46	0.80
5:h7:212:ILE:HA	5:h7:237:ILE:HA	1.64	0.80
2:l:57:PRO:HA	2:l:127:MET:HA	1.64	0.80
5:n1:291:VAL:HG11	6:p1:108:GLY:H	1.47	0.80
7:Q3:21:SER:HA	7:f3:49:ARG:HE	1.45	0.79
5:n1:341:ARG:HA	5:n1:379:ARG:HB3	1.64	0.79
8:AJ:69:GLN:HE21	8:AJ:111:ALA:HB1	1.47	0.79
2:m:135:ARG:HB2	7:Q3:17:ASP:HB2	1.62	0.79
6:s6:49:ILE:HD11	6:s6:87:VAL:HG13	1.65	0.79
5:o2:208:THR:HA	5:o2:241:GLU:HA	1.63	0.79
5:r7:390:THR:HA	5:r7:395:LYS:HB3	1.65	0.79
2:a:41:GLU:HA	2:a:45:GLY:HA3	1.63	0.78
2:k:151:LEU:HD12	2:k:185:ALA:HB2	1.64	0.78
2:l:82:TYR:HA	2:l:86:LEU:HD22	1.64	0.78
5:o2:291:VAL:HG12	6:u2:106:MET:HG2	1.66	0.78
5:g6:389:PRO:HG3	5:g6:409:VAL:HA	1.65	0.78
5:g7:375:LEU:HD12	5:g7:380:ILE:HB	1.64	0.78
8:AH:28:ARG:HG3	8:AH:29:ARG:H	1.48	0.78
8:AJ:127:MET:HB2	8:AJ:196:ILE:HB	1.65	0.78
9:AW:50:LEU:HG	9:AW:87:LYS:HE3	1.66	0.78
8:AF:119:LEU:HD21	8:AG:201:ILE:HG13	1.65	0.78
2:j:82:TYR:HA	2:j:86:LEU:HD22	1.65	0.78
5:n7:341:ARG:HA	5:n7:379:ARG:HB3	1.64	0.78
9:AS:38:VAL:HG21	9:AS:81:ILE:HD11	1.66	0.78
5:n1:196:LEU:HD11	5:n1:381:ARG:HE	1.46	0.78
5:o6:218:LEU:HA	5:o6:232:GLY:HA3	1.65	0.78
5:o7:291:VAL:HG12	6:u7:106:MET:HG2	1.66	0.78
8:AA:282:THR:HG23	8:AB:249:ARG:HH11	1.47	0.78
8:AG:69:GLN:HE21	8:AG:111:ALA:HB1	1.47	0.78
2:i:69:LEU:HD22	2:i:73:PRO:HD3	1.64	0.78
1:e2:9:LEU:HD11	6:v2:98:PHE:HD1	1.49	0.78
5:r5:390:THR:HA	5:r5:395:LYS:HB3	1.63	0.78
9:AW:25:PHE:HZ	9:AW:110:ILE:HA	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:69:LEU:HD23	2:i:71:ALA:H	1.49	0.78
8:AF:167:ASP:H	8:AG:28:ARG:HH12	1.30	0.78
5:n2:217:GLN:HB2	5:n2:233:GLU:HB3	1.65	0.77
7:33:48:LEU:HD23	7:43:1:MET:HE3	1.64	0.77
8:AK:28:ARG:HG3	8:AK:29:ARG:H	1.49	0.77
8:AH:217:ILE:HG23	8:AH:312:ASN:HD22	1.50	0.77
8:AJ:247:ALA:HB1	8:AJ:251:LEU:HD12	1.65	0.77
8:AF:127:MET:HB2	8:AF:196:ILE:HB	1.67	0.77
2:b:57:PRO:O	2:k:95:ARG:NH2	2.16	0.77
6:t1:47:PHE:HB3	6:t1:113:ILE:HD11	1.64	0.77
6:l6:2:ASN:HA	6:m6:30:GLN:HG2	1.66	0.77
2:i:53:THR:HG22	2:i:131:VAL:HG12	1.65	0.77
5:n2:341:ARG:HA	5:n2:379:ARG:HB3	1.67	0.77
6:t2:45:THR:HG23	6:t2:119:SER:HB2	1.67	0.77
6:v7:29:ASN:H	6:v7:134:GLY:HA3	1.50	0.77
8:AJ:280:ALA:HA	8:AK:247:ALA:HB3	1.67	0.77
2:q:74:ILE:HG13	2:q:75:ALA:H	1.50	0.76
8:AB:28:ARG:HG3	8:AB:29:ARG:H	1.50	0.76
8:AB:39:VAL:HG13	8:AB:40:VAL:HG23	1.67	0.76
8:AE:238:THR:HG21	8:AE:293:LEU:HD11	1.66	0.76
2:j:162:GLU:HB3	2:j:164:MET:HE1	1.68	0.76
6:p7:127:GLN:HE21	6:q7:13:ILE:HB	1.48	0.76
8:AF:161:GLU:HB3	8:AF:179:LYS:HE3	1.68	0.76
5:g2:389:PRO:HG3	5:g2:409:VAL:HA	1.68	0.76
6:p5:127:GLN:HE21	6:q5:13:ILE:HB	1.50	0.76
6:u5:28:PHE:HD1	6:u5:134:GLY:HA3	1.50	0.76
8:AD:166:GLY:HA2	8:AE:28:ARG:HH22	1.51	0.76
6:t1:45:THR:HG23	6:t1:119:SER:HB2	1.67	0.76
8:AF:46:MET:HB3	8:AF:50:ARG:HH21	1.50	0.76
9:AS:25:PHE:HZ	9:AS:110:ILE:HA	1.50	0.76
7:V3:8:PRO:HG2	7:V3:10:ASN:HD21	1.51	0.76
8:AC:28:ARG:HG3	8:AC:29:ARG:H	1.51	0.76
8:AK:212:THR:HG22	8:AK:214:LEU:H	1.51	0.76
2:m:135:ARG:HD2	7:Q3:18:VAL:C	2.11	0.76
5:k1:197:TYR:HE2	5:k1:285:LEU:HD13	1.49	0.76
7:D3:27:ILE:HB	7:D3:224:ILE:HG22	1.67	0.76
8:AC:212:THR:HG22	8:AC:214:LEU:H	1.50	0.76
8:AD:127:MET:HB2	8:AD:196:ILE:HB	1.67	0.76
5:g6:322:LEU:HA	5:g6:355:MET:HE1	1.69	0.75
8:AE:247:ALA:HB1	8:AE:251:LEU:HD12	1.69	0.75
8:AF:28:ARG:HG3	8:AF:29:ARG:H	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:110:ARG:HB2	5:h1:239:HIS:HB2	1.69	0.75
5:o1:208:THR:HA	5:o1:241:GLU:HA	1.68	0.75
5:g2:397:GLY:H	5:g2:402:ALA:HB1	1.49	0.75
6:u2:47:PHE:HB3	6:u2:113:ILE:HD11	1.67	0.75
2:a:50:PRO:HG2	2:a:135:ARG:HB2	1.67	0.75
9:AR:50:LEU:HG	9:AR:87:LYS:HE3	1.69	0.75
3:AN:99:VAL:HB	3:AN:109:LYS:HB3	1.68	0.75
5:g6:397:GLY:H	5:g6:402:ALA:HB1	1.51	0.75
5:k7:194:LEU:O	5:k7:199:GLN:NE2	2.20	0.75
5:o2:224:ASP:HB3	6:s2:1:MET:HE3	1.69	0.75
6:p2:23:VAL:HG21	6:p2:130:VAL:HG21	1.69	0.75
8:AF:140:ASN:ND2	8:AG:16:PRO:O	2.20	0.75
2:h:95:ARG:HH22	2:j:57:PRO:HB2	1.52	0.75
8:AJ:231:ALA:HA	8:AJ:296:ILE:HG22	1.69	0.75
1:f:29:VAL:HG22	1:f:31:PRO:HD2	1.67	0.74
1:e2:2:VAL:HG21	6:v2:87:VAL:HG22	1.69	0.74
5:o2:218:LEU:HA	5:o2:232:GLY:HA3	1.68	0.74
5:n5:341:ARG:HA	5:n5:379:ARG:HB3	1.69	0.74
8:AI:231:ALA:HA	8:AI:296:ILE:HG22	1.68	0.74
1:b2:2:VAL:HG21	6:s2:87:VAL:HG12	1.68	0.74
7:P3:64:VAL:HG23	7:P3:199:VAL:HG13	1.67	0.74
5:n5:291:VAL:HG11	6:p5:108:GLY:H	1.52	0.74
9:AQ:33:ILE:HG12	3:AP:25:LEU:HD13	1.67	0.74
2:b:161:ASP:HB2	2:k:157:ASN:HD21	1.51	0.74
3:H:10:VAL:HG12	3:H:83:GLU:HG2	1.68	0.74
6:l7:2:ASN:HA	6:m7:30:GLN:HG2	1.69	0.74
8:AI:69:GLN:HE21	8:AI:111:ALA:HB1	1.51	0.74
1:c:27:ARG:HH12	5:h5:322:LEU:HD21	1.52	0.74
2:b:132:THR:HG22	2:b:133:GLY:H	1.53	0.74
2:n:64:ARG:NH2	8:AD:275:GLU:OE2	2.21	0.74
7:43:100:VAL:HG12	7:43:142:ASN:HD21	1.51	0.74
8:AF:231:ALA:HA	8:AF:296:ILE:HG22	1.69	0.74
5:r2:334:PRO:HD3	5:r2:460:ARG:HH21	1.52	0.74
1:d7:2:VAL:HG21	6:q7:87:VAL:HG23	1.70	0.74
8:AC:140:ASN:ND2	8:AD:16:PRO:O	2.21	0.74
6:l1:2:ASN:HA	6:m1:30:GLN:HG2	1.67	0.74
5:o5:218:LEU:HA	5:o5:232:GLY:HA3	1.68	0.74
6:s5:24:LYS:HA	6:s5:110:TRP:HB3	1.68	0.74
5:g5:375:LEU:HD12	5:g5:380:ILE:HB	1.69	0.74
5:o6:217:GLN:HG3	5:r6:276:SER:HB2	1.69	0.74
2:h:78:PRO:HB2	2:h:91:GLU:HB2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g1:397:GLY:H	5:g1:402:ALA:HB1	1.52	0.73
1:b7:4:LEU:HD11	6:s7:99:CYS:HB3	1.69	0.73
8:AF:39:VAL:HG23	8:AF:40:VAL:HG23	1.68	0.73
1:c:2:VAL:HG11	6:m6:87:VAL:HG12	1.70	0.73
3:AM:99:VAL:HB	3:AM:109:LYS:HB3	1.71	0.73
2:q:58:ILE:HB	2:q:126:LEU:HD22	1.70	0.73
2:m:13:ARG:HE	2:m:29:LEU:HD22	1.53	0.73
6:m1:23:VAL:HG11	6:m1:130:VAL:HG21	1.71	0.73
5:g7:397:GLY:H	5:g7:402:ALA:HB1	1.52	0.73
8:AA:69:GLN:HE21	8:AA:111:ALA:HB1	1.52	0.73
8:AB:127:MET:HB2	8:AB:196:ILE:HB	1.69	0.73
8:AD:151:LYS:HG3	8:AD:164:GLN:HB3	1.70	0.73
2:b:110:ARG:HB2	5:h5:239:HIS:HB2	1.70	0.73
8:AD:169:ALA:HB3	8:AE:28:ARG:HD2	1.71	0.73
10:AZ:14:ILE:HG12	10:AZ:87:VAL:HG12	1.70	0.73
7:63:79:LYS:HD2	7:63:155:THR:HA	1.70	0.73
6:u7:13:ILE:HD11	6:u7:16:ASP:HB3	1.70	0.73
8:AG:293:LEU:HA	8:AG:296:ILE:HD11	1.70	0.73
6:l1:52:HIS:HB2	6:l1:110:TRP:HB2	1.69	0.73
7:W3:38:MET:HG2	7:W3:185:LYS:HG2	1.70	0.73
8:AE:167:ASP:OD1	8:AF:28:ARG:NH1	2.22	0.73
8:AI:247:ALA:HB1	8:AI:251:LEU:HD12	1.70	0.73
2:l:95:ARG:NH2	2:p:57:PRO:O	2.21	0.72
5:r7:305:VAL:HG12	5:r7:461:ILE:HB	1.69	0.72
6:u7:89:LEU:HD21	6:u7:93:VAL:HG11	1.70	0.72
2:a:74:ILE:HG13	2:a:75:ALA:H	1.54	0.72
2:o:142:ALA:HB3	2:h:38:GLU:HG2	1.70	0.72
7:83:27:ILE:HB	7:83:224:ILE:HG22	1.71	0.72
1:e7:9:LEU:HD11	6:v7:98:PHE:HD1	1.53	0.72
2:b:167:ARG:HH12	2:h:170:LEU:HD22	1.55	0.72
6:l2:67:ARG:HD3	6:l2:84:LEU:HD13	1.70	0.72
7:K3:75:PHE:HE1	7:K3:162:PRO:HD2	1.55	0.72
2:p:69:LEU:HD23	2:p:71:ALA:H	1.53	0.72
2:h:7:LEU:HD22	2:h:33:ARG:HG3	1.71	0.72
7:x3:207:VAL:HG12	7:x3:217:VAL:HG12	1.70	0.72
2:a:77:ARG:HD2	2:a:78:PRO:HD2	1.72	0.72
2:a:195:PHE:CZ	8:AF:249:ARG:HG3	2.25	0.72
2:o:57:PRO:HA	2:o:127:MET:HA	1.70	0.72
3:H:33:ILE:HD11	3:H:73:VAL:HG21	1.72	0.72
5:n2:291:VAL:HG21	6:p2:107:ASN:HA	1.70	0.72
1:d6:2:VAL:HG21	6:q6:87:VAL:HG12	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l7:52:HIS:HB2	6:l7:110:TRP:HB2	1.71	0.72
6:l7:55:SER:HB3	6:l7:61:VAL:HG23	1.72	0.72
1:f18:LEU:HD11	5:g2:306:PHE:HB3	1.71	0.72
6:s1:49:ILE:HD11	6:s1:87:VAL:HG13	1.72	0.72
6:t6:45:THR:HG23	6:t6:119:SER:HB2	1.71	0.72
8:AC:293:LEU:HA	8:AC:296:ILE:HD11	1.71	0.72
8:AA:237:GLY:HA2	8:AL:267:LYS:HD3	1.72	0.72
7:Z3:74:ALA:HB2	7:Z3:91:LEU:HD11	1.72	0.72
2:a:145:ILE:H	2:a:145:ILE:HD12	1.55	0.72
5:n2:207:PHE:HB2	5:o2:180:LEU:HD22	1.72	0.72
5:g6:208:THR:HG22	5:g6:241:GLU:HG3	1.71	0.72
5:h6:217:GLN:NE2	5:h6:219:GLY:O	2.23	0.72
5:n6:366:ASP:OD1	5:o6:361:ARG:NH2	2.23	0.72
1:e7:2:VAL:HG21	6:v7:87:VAL:HG12	1.71	0.72
6:q7:23:VAL:HG11	6:q7:130:VAL:HG11	1.72	0.72
5:k5:403:PHE:HB3	5:k5:464:ILE:HD13	1.72	0.72
6:t7:23:VAL:HG21	6:t7:130:VAL:HG21	1.72	0.72
9:AQ:25:PHE:HZ	9:AQ:110:ILE:HA	1.52	0.72
1:d5:2:VAL:HG21	6:q5:87:VAL:HG12	1.72	0.71
6:v6:52:HIS:HB2	6:v6:110:TRP:HB2	1.72	0.71
6:u7:46:THR:HG23	6:u7:116:ALA:HB3	1.72	0.71
8:AB:69:GLN:HE21	8:AB:111:ALA:HB1	1.55	0.71
8:AF:247:ALA:HB1	8:AF:251:LEU:HD12	1.71	0.71
8:AJ:396:ILE:HG23	8:AJ:400:GLU:HG3	1.72	0.71
6:s2:24:LYS:HA	6:s2:110:TRP:HB3	1.71	0.71
7:B3:79:LYS:HD2	7:B3:155:THR:HA	1.70	0.71
5:k7:197:TYR:HE2	5:k7:285:LEU:HD13	1.54	0.71
8:AK:380:ARG:HA	8:AK:383:ARG:HE	1.55	0.71
7:u3:207:VAL:HG22	7:u3:217:VAL:HG12	1.71	0.71
3:AN:48:SER:O	3:AN:50:ASP:N	2.23	0.71
9:AT:38:VAL:HG13	9:AT:54:LEU:HD22	1.72	0.71
2:n:132:THR:HG22	2:n:133:GLY:H	1.55	0.71
2:q:57:PRO:HA	2:q:127:MET:HA	1.73	0.71
2:m:129:THR:HG21	7:P3:43:ALA:HA	1.70	0.71
5:h2:199:GLN:HA	8:AE:29:ARG:NH2	2.04	0.71
5:h5:217:GLN:NE2	5:h5:219:GLY:O	2.24	0.71
6:l5:52:HIS:HB2	6:l5:110:TRP:HB2	1.73	0.71
8:AD:56:VAL:HG22	8:AD:59:ARG:HH22	1.54	0.71
2:n:72:THR:HG22	2:n:134:ARG:HH22	1.54	0.71
2:h:95:ARG:NH2	2:j:57:PRO:O	2.23	0.71
7:a3:184:LEU:HD12	7:a3:206:GLN:HE21	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l5:2:ASN:HA	6:m5:30:GLN:HG2	1.73	0.71
7:N3:75:PHE:HE1	7:N3:162:PRO:HD2	1.54	0.71
7:T3:75:PHE:HE1	7:T3:162:PRO:HD2	1.55	0.71
6:s6:10:PRO:HD2	6:s6:132:MET:HB2	1.72	0.71
8:AL:358:PHE:O	8:AL:362:LEU:HB2	1.89	0.71
1:g:29:VAL:HG22	1:g:31:PRO:HD2	1.72	0.71
7:B3:168:VAL:HG21	7:B3:224:ILE:HD12	1.70	0.71
5:n5:334:PRO:HA	5:o5:346:GLN:HE22	1.55	0.71
6:v5:52:HIS:HB2	6:v5:110:TRP:HB2	1.71	0.71
8:AJ:28:ARG:HG3	8:AJ:29:ARG:H	1.56	0.71
2:l:198:ARG:HH22	8:AB:249:ARG:HH22	1.39	0.71
2:n:52:LYS:HB2	2:n:132:THR:HB	1.73	0.71
3:H:69:TYR:HA	3:H:108:MET:HE3	1.73	0.71
7:r3:207:VAL:HG12	7:r3:217:VAL:HG12	1.73	0.71
6:p2:81:GLU:HG2	6:p2:82:ASP:H	1.56	0.71
1:b6:27:ARG:HD3	5:g6:309:LEU:HD22	1.72	0.71
2:l:183:ASN:ND2	2:m:186:VAL:O	2.24	0.70
5:h1:212:ILE:HA	5:h1:237:ILE:HA	1.73	0.70
5:n1:207:PHE:HB2	5:o1:180:LEU:HD22	1.73	0.70
6:s2:30:GLN:HG2	6:t2:2:ASN:HA	1.72	0.70
5:h6:396:GLY:H	5:h6:402:ALA:HB1	1.57	0.70
6:s7:24:LYS:HA	6:s7:110:TRP:HB3	1.73	0.70
2:a:192:ASP:HA	2:a:195:PHE:HD1	1.56	0.70
2:j:158:ASN:ND2	2:j:164:MET:HE3	2.05	0.70
7:M3:1:MET:HE2	7:M3:185:LYS:HZ3	1.54	0.70
8:AA:140:ASN:ND2	8:AB:16:PRO:O	2.23	0.70
2:i:122:VAL:HG23	2:i:123:GLU:H	1.56	0.70
5:h2:396:GLY:H	5:h2:402:ALA:HB1	1.55	0.70
7:U3:59:PHE:HE2	7:U3:175:ARG:HE	1.39	0.70
5:o5:208:THR:HA	5:o5:241:GLU:HA	1.73	0.70
8:AF:52:MET:HE3	8:AG:201:ILE:HD11	1.72	0.70
2:m:110:ARG:HB2	5:h2:239:HIS:HB2	1.72	0.70
6:v1:52:HIS:HB2	6:v1:110:TRP:HB2	1.73	0.70
5:g2:375:LEU:HD12	5:g2:380:ILE:HB	1.73	0.70
5:h2:253:PHE:HB2	5:h2:441:VAL:HG22	1.73	0.70
5:g5:187:ASN:HD21	5:r5:214:ASP:HA	1.56	0.70
5:h6:202:VAL:HG22	5:h6:203:SER:H	1.56	0.70
1:e7:27:ARG:HG2	5:r7:311:VAL:HG22	1.72	0.70
2:p:46:LEU:HD21	2:p:144:ILE:HG12	1.72	0.70
5:h7:389:PRO:HG3	5:h7:409:VAL:HG12	1.74	0.70
1:d:2:VAL:HG21	6:m1:87:VAL:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n1:334:PRO:HA	5:o1:346:GLN:HE22	1.57	0.70
1:e5:9:LEU:HG	6:u5:24:LYS:HD3	1.74	0.70
5:r6:243:LYS:HD3	6:t6:29:ASN:HB2	1.72	0.70
6:t6:24:LYS:HA	6:t6:110:TRP:HB3	1.74	0.70
8:AE:161:GLU:HB3	8:AE:179:LYS:HE2	1.73	0.70
8:AG:151:LYS:HG3	8:AG:164:GLN:HB3	1.73	0.70
8:AI:167:ASP:H	8:AJ:28:ARG:HH12	1.37	0.70
10:AY:50:LEU:O	10:Ab:61:ASN:ND2	2.22	0.70
6:s1:24:LYS:HA	6:s1:110:TRP:HB3	1.73	0.70
6:p7:52:HIS:HB2	6:p7:110:TRP:HB2	1.73	0.70
8:AE:140:ASN:ND2	8:AF:16:PRO:O	2.24	0.70
2:l:48:PHE:HZ	2:l:194:TRP:HH2	1.39	0.70
5:h5:210:MET:HE1	5:k5:263:TYR:HB2	1.74	0.70
6:p5:52:HIS:HB2	6:p5:110:TRP:HB2	1.71	0.70
8:AK:140:ASN:ND2	8:AL:16:PRO:O	2.21	0.70
5:n1:361:ARG:HB3	5:o1:361:ARG:HH21	1.57	0.70
5:o1:218:LEU:HA	5:o1:232:GLY:HA3	1.74	0.70
5:g2:208:THR:HG22	5:g2:241:GLU:HG3	1.73	0.70
7:e3:161:GLN:HE22	7:e3:164:PHE:HE2	1.40	0.70
5:r5:432:TYR:HB2	5:r5:444:GLN:HG3	1.72	0.70
6:u6:30:GLN:HB2	6:u6:133:LYS:HB3	1.74	0.70
9:AQ:50:LEU:HD22	9:AQ:87:LYS:HE3	1.72	0.70
7:f3:74:ALA:HB2	7:f3:91:LEU:HD11	1.74	0.70
5:n7:334:PRO:HA	5:o7:346:GLN:HE22	1.55	0.70
5:h1:389:PRO:HG3	5:h1:409:VAL:HG12	1.74	0.69
5:n6:207:PHE:HB2	5:o6:180:LEU:HD22	1.73	0.69
2:p:95:ARG:NH2	2:i:57:PRO:O	2.25	0.69
6:l2:52:HIS:HB2	6:l2:110:TRP:HB2	1.73	0.69
5:k5:344:MET:HE1	5:k5:349:PHE:HB2	1.72	0.69
2:b:122:VAL:HG13	2:b:123:GLU:H	1.56	0.69
2:h:168:ASN:H	2:j:163:VAL:CG1	2.05	0.69
2:m:151:LEU:HD12	2:m:185:ALA:HB2	1.74	0.69
7:O3:59:PHE:HE2	7:O3:175:ARG:HE	1.40	0.69
5:g7:336:GLU:HB2	5:h7:188:ILE:HD12	1.73	0.69
10:AU:61:ASN:ND2	10:Ab:50:LEU:O	2.21	0.69
10:AZ:99:LEU:HD12	10:AZ:124:ILE:HD11	1.74	0.69
1:g:21:PRO:O	5:g7:324:GLN:NE2	2.23	0.69
5:k5:274:GLN:HG3	8:AA:29:ARG:CZ	2.22	0.69
6:u5:52:HIS:HB2	6:u5:110:TRP:HB2	1.74	0.69
6:s7:13:ILE:HD13	6:t7:127:GLN:HB3	1.74	0.69
2:a:66:LYS:H	2:a:66:LYS:HD2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:m2:23:VAL:HG11	6:m2:130:VAL:HG11	1.74	0.69
6:q2:67:ARG:HD3	6:q2:84:LEU:HD13	1.74	0.69
7:53:27:ILE:HB	7:53:224:ILE:HG22	1.74	0.69
5:r5:341:ARG:HA	5:r5:379:ARG:HB3	1.74	0.69
6:u5:42:THR:H	6:u5:122:ASN:HD21	1.40	0.69
8:AK:293:LEU:HA	8:AK:296:ILE:HD11	1.73	0.69
2:q:58:ILE:HG22	2:q:59:ARG:H	1.58	0.69
2:j:20:ASP:OD2	3:AN:87:LYS:N	2.25	0.69
2:k:168:ASN:HD22	2:k:181:THR:HG22	1.55	0.69
5:n2:334:PRO:HA	5:o2:346:GLN:HE22	1.57	0.69
9:AQ:77:ARG:HD2	9:AQ:150:ARG:HD3	1.73	0.69
9:AS:84:PHE:HB2	9:AS:145:ILE:HB	1.74	0.69
5:o1:297:TRP:HB2	5:o1:303:PHE:HE2	1.58	0.69
7:P3:104:ILE:HG12	7:P3:117:LEU:HD22	1.75	0.69
5:g6:187:ASN:HD21	5:r6:214:ASP:HA	1.58	0.69
2:a:161:ASP:HB2	2:j:157:ASN:HD21	1.58	0.69
2:j:164:MET:O	2:j:182:ASN:ND2	2.24	0.69
5:k1:205:SER:HB2	5:k1:424:LYS:HZ3	1.57	0.69
5:g2:290:GLY:HA2	5:g2:295:LYS:HG2	1.75	0.69
5:n2:252:CYS:HB3	5:n2:442:LYS:HD3	1.75	0.69
7:Q3:75:PHE:HE1	7:Q3:162:PRO:HD2	1.57	0.69
7:23:167:PRO:HA	7:23:191:SER:HB3	1.75	0.69
7:A3:38:MET:HG2	7:A3:185:LYS:HG3	1.74	0.69
1:e5:27:ARG:HG2	5:r5:311:VAL:HG12	1.75	0.69
5:n5:207:PHE:HB2	5:o5:180:LEU:HD22	1.73	0.69
8:AD:140:ASN:ND2	8:AE:16:PRO:O	2.24	0.69
9:AQ:55:VAL:HG12	9:AQ:82:VAL:HG12	1.75	0.69
2:j:68:ILE:HD12	2:j:100:VAL:HG12	1.73	0.69
5:n7:374:ASP:HB3	5:n7:377:ARG:HG2	1.75	0.69
8:AC:98:GLN:HG2	8:AD:82:THR:HG21	1.75	0.69
8:AF:98:GLN:HG3	8:AG:80:GLN:HE21	1.56	0.69
1:f:21:PRO:O	5:g2:324:GLN:NE2	2.24	0.69
2:m:131:VAL:HG22	2:m:133:GLY:H	1.57	0.69
7:03:100:VAL:HG12	7:03:142:ASN:HD21	1.57	0.69
5:r6:223:CYS:SG	5:r6:226:LYS:NZ	2.66	0.69
1:a1:4:LEU:HD23	6:l1:99:CYS:HB2	1.73	0.68
5:h2:422:VAL:N	5:h2:450:GLY:O	2.26	0.68
7:R3:59:PHE:HE2	7:R3:175:ARG:HE	1.40	0.68
7:S3:59:PHE:HE2	7:S3:175:ARG:HE	1.40	0.68
6:t5:24:LYS:HA	6:t5:110:TRP:HB3	1.75	0.68
8:AC:147:ILE:HG23	8:AC:148:PRO:HD3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h2:436:SER:HB3	5:h2:442:LYS:HG2	1.75	0.68
8:AE:402:ARG:HH21	8:AE:407:TRP:HB3	1.58	0.68
2:n:51:GLU:OE2	7:M3:10:ASN:HB2	1.93	0.68
7:S3:208:ALA:HB3	7:S3:216:PHE:HB2	1.75	0.68
7:y3:167:PRO:HA	7:y3:191:SER:HB3	1.75	0.68
10:AZ:81:GLY:HA2	10:AZ:104:VAL:HB	1.75	0.68
6:u1:28:PHE:HD1	6:u1:134:GLY:HA3	1.57	0.68
7:i3:77:ARG:NH2	7:i3:158:GLU:OE2	2.27	0.68
5:o5:211:LYS:HA	5:r5:183:GLU:HG3	1.74	0.68
5:g7:182:LEU:HD22	5:r7:209:TYR:HA	1.74	0.68
5:k7:207:PHE:HB2	5:n7:180:LEU:HD22	1.75	0.68
10:Ab:99:LEU:HD12	10:Ab:124:ILE:HD11	1.75	0.68
2:p:74:ILE:HG13	2:p:75:ALA:H	1.58	0.68
7:P3:79:LYS:HE3	7:P3:155:THR:HA	1.76	0.68
7:g3:167:PRO:HA	7:g3:191:SER:HB3	1.74	0.68
6:p6:52:HIS:HB2	6:p6:110:TRP:HB2	1.75	0.68
5:r7:213:ALA:HB2	5:r7:238:ARG:HD3	1.76	0.68
8:AJ:168:GLU:HG2	8:AJ:169:ALA:N	2.08	0.68
2:q:9:LEU:HA	2:q:12:ILE:HD12	1.75	0.68
6:p1:52:HIS:HB2	6:p1:110:TRP:HB2	1.75	0.68
7:s3:167:PRO:HA	7:s3:191:SER:HB3	1.74	0.68
8:AB:212:THR:HG22	8:AB:214:LEU:H	1.58	0.68
8:AF:293:LEU:HA	8:AF:296:ILE:HD11	1.76	0.68
1:f:29:VAL:HA	4:f2:20:CYS:HB3	1.74	0.68
5:g7:208:THR:HG22	5:g7:241:GLU:HG3	1.76	0.68
8:AA:216:ALA:HB1	8:AL:55:PRO:HA	1.74	0.68
8:AC:127:MET:HB2	8:AC:196:ILE:HB	1.74	0.68
8:AK:381:LYS:HZ3	8:AL:382:SER:HB2	1.56	0.68
2:l:193:GLU:OE1	2:l:196:ARG:NH2	2.27	0.68
2:j:151:LEU:HD12	2:j:185:ALA:HB2	1.76	0.68
5:h1:202:VAL:HG22	5:h1:203:SER:H	1.59	0.68
5:n2:394:THR:HG23	5:n2:395:LYS:HG2	1.76	0.68
6:p2:69:PRO:HD2	6:p2:107:ASN:HD21	1.59	0.68
7:Y3:59:PHE:HE2	7:Y3:175:ARG:HE	1.42	0.68
6:m6:49:ILE:HD11	6:m6:87:VAL:HG13	1.75	0.68
6:s6:24:LYS:HA	6:s6:110:TRP:HB3	1.75	0.68
5:g7:389:PRO:HG3	5:g7:409:VAL:HA	1.75	0.68
8:AH:282:THR:HG23	8:AI:249:ARG:HD3	1.76	0.68
1:c:24:PHE:HE2	5:h5:363:LEU:HD11	1.58	0.68
7:t3:2:TYR:HB2	7:t3:37:VAL:HG22	1.76	0.68
5:g6:207:PHE:HB2	5:h6:180:LEU:HD22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n6:334:PRO:HA	5:o6:346:GLN:HE22	1.58	0.68
8:AA:252:ASP:HB2	8:AA:255:GLN:NE2	2.09	0.68
2:j:79:VAL:HG13	2:j:130:TYR:HB3	1.76	0.68
7:d3:79:LYS:HD2	7:d3:155:THR:HA	1.75	0.68
5:g5:182:LEU:HD22	5:r5:209:TYR:HA	1.76	0.68
5:n7:208:THR:HG22	5:n7:241:GLU:HG3	1.76	0.68
8:AB:247:ALA:HB1	8:AB:251:LEU:HD12	1.75	0.68
5:r5:223:CYS:SG	5:r5:226:LYS:NZ	2.67	0.67
8:AB:396:ILE:HG23	8:AB:400:GLU:HG3	1.76	0.67
8:AK:243:TRP:HH2	8:AL:289:MET:HE3	1.59	0.67
2:i:41:GLU:HG2	2:i:48:PHE:HB2	1.75	0.67
7:t3:10:ASN:ND2	7:u3:1:MET:O	2.27	0.67
7:93:79:LYS:HE3	7:93:155:THR:HA	1.77	0.67
5:o6:208:THR:HA	5:o6:241:GLU:HA	1.75	0.67
2:j:13:ARG:HE	2:j:29:LEU:HD22	1.60	0.67
2:j:140:VAL:HG22	2:j:145:ILE:HG12	1.75	0.67
7:D3:48:LEU:HD23	7:E3:1:MET:HE3	1.76	0.67
5:n6:341:ARG:HA	5:n6:379:ARG:HB3	1.76	0.67
6:u7:106:MET:HE3	6:v7:2:ASN:HD22	1.60	0.67
8:AG:98:GLN:HG2	8:AH:82:THR:HG21	1.75	0.67
1:d:29:VAL:HG22	1:d:31:PRO:HD2	1.76	0.67
2:l:51:GLU:OE2	7:Q3:13:SER:N	2.21	0.67
2:i:168:ASN:H	2:k:163:VAL:CG1	2.06	0.67
6:u1:30:GLN:HB2	6:u1:133:LYS:HB3	1.77	0.67
7:M3:171:PRO:HD2	7:M3:187:VAL:HG23	1.75	0.67
7:f3:209:ILE:HD11	7:f3:213:GLY:HA2	1.76	0.67
5:n5:304:PRO:HG2	5:n5:460:ARG:HG2	1.74	0.67
5:g7:182:LEU:HD13	5:r7:210:MET:H	1.58	0.67
8:AI:242:LYS:HE2	8:AI:288:GLU:HB3	1.76	0.67
10:AV:17:THR:HG22	10:AV:24:VAL:HG12	1.75	0.67
2:p:17:LYS:HE3	3:AM:106:ARG:HD2	1.76	0.67
7:93:167:PRO:HA	7:93:191:SER:HB3	1.76	0.67
6:m5:67:ARG:HG2	6:m5:84:LEU:HD22	1.76	0.67
6:p6:23:VAL:HG11	6:p6:130:VAL:HG21	1.77	0.67
6:u6:35:PHE:HB2	6:u6:99:CYS:HB2	1.76	0.67
7:l3:48:LEU:HD22	7:m3:1:MET:HE3	1.77	0.67
7:33:79:LYS:HD2	7:33:155:THR:HA	1.76	0.67
8:AD:228:MET:HE1	8:AE:223:LEU:HD22	1.77	0.67
8:AJ:293:LEU:HA	8:AJ:296:ILE:HD11	1.76	0.67
9:AR:21:VAL:HG11	9:AR:53:VAL:HG21	1.76	0.67
3:AN:37:ALA:HB1	3:AN:65:ILE:HD11	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:129:THR:HG21	7:V3:43:ALA:HA	1.76	0.67
2:o:48:PHE:O	2:o:49:THR:C	2.36	0.67
7:n3:10:ASN:ND2	7:o3:1:MET:O	2.27	0.67
2:m:135:ARG:HD3	7:Q3:17:ASP:HB2	1.76	0.67
7:p3:167:PRO:HA	7:p3:191:SER:HB3	1.75	0.67
1:g:9:LEU:HB2	6:m5:96:ASP:O	1.94	0.67
2:o:78:PRO:HB2	2:o:91:GLU:HB2	1.76	0.67
6:s1:30:GLN:HG2	6:t1:2:ASN:HA	1.76	0.67
7:h3:74:ALA:HB2	7:h3:91:LEU:HD21	1.75	0.67
5:n7:217:GLN:HB2	5:n7:233:GLU:HB2	1.77	0.67
5:k1:424:LYS:HB3	5:k1:448:GLU:HG3	1.78	0.67
5:r1:339:GLU:HB2	5:r1:379:ARG:HH22	1.60	0.67
6:l2:23:VAL:HG11	6:l2:130:VAL:HG11	1.75	0.67
5:r5:243:LYS:HD3	6:t5:29:ASN:HB2	1.75	0.67
8:AD:89:MET:SD	8:AD:185:LYS:NZ	2.66	0.67
2:l:179:GLY:HA2	2:l:182:ASN:HD21	1.60	0.66
2:n:17:LYS:HE3	3:AO:106:ARG:HD2	1.77	0.66
5:h1:396:GLY:H	5:h1:402:ALA:HB1	1.60	0.66
6:s2:10:PRO:HD2	6:s2:132:MET:HB2	1.76	0.66
7:s3:74:ALA:HB2	7:s3:91:LEU:HD11	1.76	0.66
8:AH:247:ALA:HB1	8:AH:251:LEU:HD12	1.76	0.66
7:b3:64:VAL:HG23	7:b3:199:VAL:HG13	1.77	0.66
7:53:48:LEU:HD23	7:63:1:MET:HE3	1.75	0.66
5:g5:366:ASP:OD1	5:h5:361:ARG:NH2	2.28	0.66
5:h7:226:LYS:HD3	6:m7:71:VAL:HG13	1.77	0.66
9:AR:77:ARG:HD2	9:AR:150:ARG:HD3	1.77	0.66
10:AZ:15:THR:HB	10:AZ:86:ASP:HB3	1.76	0.66
1:e:2:VAL:HG11	6:m2:87:VAL:HG12	1.76	0.66
6:p7:23:VAL:HG11	6:p7:130:VAL:HG11	1.75	0.66
9:AS:50:LEU:HD13	9:AS:51:PRO:HD2	1.78	0.66
2:p:9:LEU:HA	2:p:12:ILE:HD12	1.77	0.66
2:j:74:ILE:HG13	2:j:75:ALA:H	1.60	0.66
7:L3:59:PHE:HE2	7:L3:175:ARG:HE	1.43	0.66
7:S3:38:MET:HG2	7:S3:185:LYS:HD2	1.76	0.66
7:i3:168:VAL:HG21	7:i3:224:ILE:HD12	1.76	0.66
6:u6:15:TRP:HB3	6:u6:128:ILE:HB	1.77	0.66
8:AD:137:GLY:HA3	8:AD:187:ARG:HH21	1.61	0.66
10:Aa:50:LEU:O	10:AY:61:ASN:ND2	2.24	0.66
2:k:77:ARG:HD3	2:k:131:VAL:HG11	1.76	0.66
6:t2:26:ASP:OD1	6:t2:109:GLN:NE2	2.25	0.66
7:J3:10:ASN:ND2	7:K3:1:MET:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m3:167:PRO:HA	7:m3:191:SER:HB3	1.76	0.66
7:23:74:ALA:HB2	7:23:91:LEU:HD11	1.75	0.66
6:u7:30:GLN:HB2	6:u7:133:LYS:HB3	1.78	0.66
8:AF:396:ILE:HG23	8:AF:400:GLU:HG3	1.77	0.66
8:AI:404:VAL:HG23	8:AI:405:THR:HG23	1.78	0.66
2:a:164:MET:O	2:a:182:ASN:ND2	2.29	0.66
5:n6:208:THR:HG22	5:n6:241:GLU:HG3	1.77	0.66
8:AE:70:SER:HB3	8:AF:348:PRO:HB3	1.77	0.66
3:I:33:ILE:HD11	3:I:73:VAL:HG21	1.78	0.66
5:g1:182:LEU:HD22	5:r1:209:TYR:HA	1.77	0.66
5:n1:394:THR:HG23	5:n1:395:LYS:HG2	1.76	0.66
6:l2:9:PHE:CE1	6:l2:133:LYS:HG2	2.31	0.66
6:u2:54:PRO:HD3	6:u2:109:GLN:HG3	1.78	0.66
7:K3:168:VAL:HG12	7:K3:190:VAL:HG12	1.76	0.66
7:y3:74:ALA:HB2	7:y3:91:LEU:HD11	1.78	0.66
7:A3:27:ILE:HB	7:A3:224:ILE:HG22	1.77	0.66
8:AB:167:ASP:H	8:AC:28:ARG:HH12	1.43	0.66
2:a:184:GLY:O	2:j:150:LYS:NZ	2.28	0.66
2:p:66:LYS:NZ	8:AL:275:GLU:OE1	2.29	0.66
2:h:71:ALA:HB3	2:h:130:TYR:HE2	1.60	0.66
2:m:162:GLU:HG3	2:m:164:MET:HE3	1.77	0.66
6:s1:89:LEU:HD12	6:s1:90:PRO:HD2	1.78	0.66
6:u2:13:ILE:HD11	6:u2:16:ASP:HB3	1.78	0.66
7:v3:74:ALA:HB2	7:v3:91:LEU:HD11	1.77	0.66
5:h5:333:PHE:HD2	5:h5:460:ARG:HE	1.43	0.66
8:AH:280:ALA:HA	8:AI:247:ALA:HB3	1.78	0.66
9:AQ:84:PHE:HB2	9:AQ:145:ILE:HB	1.77	0.66
2:h:73:PRO:HB3	2:h:130:TYR:HB2	1.77	0.66
7:z3:156:THR:HG23	7:z3:157:SER:H	1.61	0.66
5:h6:204:ARG:NH1	8:AI:42:TYR:OH	2.29	0.66
8:AI:402:ARG:HH21	8:AI:407:TRP:HB3	1.61	0.66
7:c3:172:ALA:O	7:c3:175:ARG:NH1	2.29	0.65
7:i3:74:ALA:HB2	7:i3:91:LEU:HD11	1.78	0.65
7:l3:59:PHE:HE2	7:l3:175:ARG:HE	1.42	0.65
7:43:38:MET:HG2	7:43:185:LYS:HG2	1.78	0.65
6:l6:2:ASN:ND2	6:m6:103:VAL:O	2.27	0.65
5:r7:223:CYS:SG	5:r7:226:LYS:NZ	2.68	0.65
6:u7:52:HIS:HB2	6:u7:110:TRP:HB2	1.77	0.65
6:t2:23:VAL:HG21	6:t2:130:VAL:HG11	1.78	0.65
7:j3:79:LYS:HD2	7:j3:155:THR:HA	1.77	0.65
7:o3:207:VAL:HG22	7:o3:217:VAL:HG12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h7:396:GLY:H	5:h7:402:ALA:HB1	1.60	0.65
8:AG:55:PRO:HA	8:AH:216:ALA:HB1	1.78	0.65
8:AJ:267:LYS:HD2	8:AK:237:GLY:HA2	1.78	0.65
3:AP:19:VAL:HA	3:AP:25:LEU:HA	1.77	0.65
2:p:199:ARG:HA	8:AL:255:GLN:HE22	1.62	0.65
5:o2:255:ARG:NH2	5:o2:437:SER:O	2.30	0.65
7:F3:100:VAL:HG12	7:F3:142:ASN:HD21	1.60	0.65
6:u7:28:PHE:HD1	6:u7:134:GLY:HA3	1.62	0.65
8:AA:402:ARG:HH21	8:AA:407:TRP:HB3	1.61	0.65
9:AQ:28:ILE:HG22	9:AQ:51:PRO:HB3	1.78	0.65
3:H:77:VAL:HG13	3:AN:48:SER:H	1.61	0.65
7:T3:136:ARG:HG2	7:T3:149:VAL:HG12	1.77	0.65
7:p3:74:ALA:HB2	7:p3:91:LEU:HD11	1.78	0.65
6:q5:49:ILE:HD11	6:q5:87:VAL:HG13	1.78	0.65
8:AB:140:ASN:HD21	8:AC:16:PRO:C	2.03	0.65
8:AK:132:SER:HA	8:AK:191:ASN:HD22	1.61	0.65
2:j:122:VAL:HG23	2:j:123:GLU:H	1.60	0.65
7:F3:217:VAL:H	7:G3:34:VAL:HB	1.62	0.65
5:h6:281:ARG:HH21	5:h6:449:ASP:HB2	1.61	0.65
6:v6:67:ARG:HD3	6:v6:84:LEU:HB2	1.79	0.65
5:g7:187:ASN:HD21	5:r7:214:ASP:HA	1.60	0.65
6:m7:46:THR:HG23	6:m7:116:ALA:HB3	1.79	0.65
10:Aa:15:THR:HB	10:Aa:86:ASP:HB2	1.78	0.65
2:a:83:GLY:HA2	7:L3:180:ARG:HH12	1.60	0.65
2:h:57:PRO:HA	2:h:127:MET:HA	1.77	0.65
6:v2:15:TRP:HB3	6:v2:128:ILE:HB	1.78	0.65
7:Y3:74:ALA:HB2	7:Y3:91:LEU:HD11	1.77	0.65
7:l3:74:ALA:HB2	7:l3:91:LEU:HD11	1.78	0.65
7:w3:156:THR:HG23	7:w3:157:SER:H	1.62	0.65
5:g5:397:GLY:H	5:g5:402:ALA:HB1	1.60	0.65
5:h5:396:GLY:H	5:h5:402:ALA:HB1	1.60	0.65
6:q5:91:GLU:HG3	6:q5:92:THR:HG23	1.77	0.65
5:n7:207:PHE:HB2	5:o7:180:LEU:HD22	1.78	0.65
8:AE:190:LYS:HG2	8:AE:191:ASN:H	1.61	0.65
10:AU:50:LEU:O	10:AZ:61:ASN:ND2	2.23	0.65
2:p:186:VAL:HA	2:p:191:GLN:HG2	1.79	0.65
6:t2:30:GLN:HB2	6:t2:133:LYS:HB3	1.79	0.65
6:u2:52:HIS:HB2	6:u2:110:TRP:HB2	1.77	0.65
7:Q3:167:PRO:HA	7:Q3:191:SER:HB3	1.78	0.65
7:o3:64:VAL:HB	7:o3:199:VAL:HG13	1.77	0.65
7:v3:167:PRO:HA	7:v3:191:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:03:167:PRO:HA	7:03:191:SER:HB3	1.79	0.65
6:u6:13:ILE:HD11	6:u6:16:ASP:HB3	1.78	0.65
8:AE:231:ALA:HA	8:AE:296:ILE:HG22	1.79	0.65
5:o2:254:ASN:HB3	5:o2:257:ASN:HB2	1.79	0.65
7:Z3:59:PHE:HE2	7:Z3:175:ARG:HE	1.45	0.65
7:d3:59:PHE:HE2	7:d3:175:ARG:HE	1.45	0.65
5:g6:366:ASP:OD1	5:h6:361:ARG:NH2	2.30	0.65
6:l6:68:VAL:HG23	6:l6:107:ASN:HD21	1.62	0.65
8:AH:235:ALA:O	8:AI:230:ARG:NH1	2.30	0.65
3:I:39:ILE:HG22	3:I:65:ILE:HG12	1.78	0.65
7:t3:156:THR:HG23	7:t3:157:SER:H	1.62	0.65
5:h5:334:PRO:HA	5:k5:346:GLN:HE22	1.60	0.65
5:o6:255:ARG:NH2	5:o6:437:SER:O	2.30	0.65
2:o:51:GLU:CA	2:o:133:GLY:HA3	2.25	0.65
3:H:41:PRO:HD3	3:AO:103:GLU:HG2	1.79	0.65
6:l1:89:LEU:HD12	6:l1:90:PRO:HD2	1.78	0.65
6:v2:52:HIS:HB2	6:v2:110:TRP:HB2	1.79	0.65
6:t5:28:PHE:HA	6:t5:135:ALA:HB3	1.78	0.65
6:u5:127:GLN:HE21	6:v5:13:ILE:HB	1.61	0.65
5:k6:253:PHE:HB3	5:k6:258:LEU:HD11	1.78	0.65
5:n7:306:PHE:HE1	5:n7:460:ARG:HD2	1.62	0.65
10:AZ:117:MET:HB3	10:AZ:119:ILE:HD11	1.78	0.65
2:l:148:ILE:HG13	2:l:194:TRP:HZ2	1.62	0.64
5:h1:333:PHE:HD2	5:h1:460:ARG:HE	1.44	0.64
5:h2:334:PRO:HA	5:k2:346:GLN:HE22	1.61	0.64
7:n3:110:PRO:HG3	7:n3:115:VAL:HG23	1.78	0.64
7:n3:156:THR:HG23	7:n3:157:SER:H	1.62	0.64
5:n5:208:THR:HG22	5:n5:241:GLU:HG2	1.78	0.64
6:s2:49:ILE:HD11	6:s2:87:VAL:HG13	1.80	0.64
6:q6:89:LEU:HD12	6:q6:90:PRO:HD2	1.80	0.64
10:AZ:50:LEU:O	10:AV:61:ASN:ND2	2.24	0.64
2:a:64:ARG:NH2	2:n:59:ARG:HE	1.95	0.64
6:p1:81:GLU:HG2	6:p1:82:ASP:H	1.62	0.64
5:g2:182:LEU:HD22	5:r2:209:TYR:HA	1.79	0.64
7:U3:136:ARG:HG2	7:U3:149:VAL:HG23	1.78	0.64
7:a3:167:PRO:HA	7:a3:191:SER:HB3	1.78	0.64
1:d6:24:PHE:CE2	1:d6:26:CYS:HB3	2.32	0.64
5:k6:428:PHE:HA	8:AJ:168:GLU:HG3	1.78	0.64
2:m:71:ALA:HB3	2:m:130:TYR:HE2	1.61	0.64
3:I:43:LYS:HZ1	3:I:60:GLN:HB2	1.62	0.64
5:h2:441:VAL:HG12	8:AD:29:ARG:NH1	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n2:377:ARG:HH11	5:n2:378:GLU:HG2	1.63	0.64
7:w3:210:ASP:OD1	7:w3:214:ASN:N	2.28	0.64
7:93:30:ARG:HD2	7:93:230:GLY:H	1.63	0.64
5:o7:208:THR:HA	5:o7:241:GLU:HA	1.79	0.64
6:t2:9:PHE:CE1	6:t2:133:LYS:HG2	2.33	0.64
7:a3:79:LYS:HD2	7:a3:155:THR:HA	1.78	0.64
7:h3:168:VAL:HG11	7:h3:224:ILE:HD12	1.79	0.64
5:k5:369:LEU:HD23	5:k5:370:THR:HG23	1.79	0.64
5:n5:199:GLN:HE22	5:n5:423:GLU:HG3	1.62	0.64
6:v6:29:ASN:H	6:v6:134:GLY:HA3	1.62	0.64
8:AF:267:LYS:HD2	8:AG:237:GLY:HA2	1.79	0.64
2:b:163:VAL:HG22	2:i:167:ARG:HH22	1.62	0.64
2:j:53:THR:HG22	2:j:131:VAL:HG12	1.79	0.64
7:Q3:53:LEU:HD11	7:Q3:182:HIS:HA	1.79	0.64
7:Y3:64:VAL:HG23	7:Y3:199:VAL:HG23	1.80	0.64
7:q3:2:TYR:HB2	7:q3:37:VAL:HG22	1.79	0.64
7:s3:133:GLY:H	7:s3:152:VAL:HG23	1.63	0.64
8:AG:64:LEU:HD11	8:AG:315:ILE:HD11	1.78	0.64
10:Ab:81:GLY:HA2	10:Ab:104:VAL:HB	1.79	0.64
5:o1:189:GLU:HG2	5:o1:190:CYS:H	1.62	0.64
6:t1:28:PHE:HA	6:t1:135:ALA:HB3	1.78	0.64
6:u1:2:ASN:HA	6:v1:30:GLN:HG2	1.79	0.64
7:t3:64:VAL:HG23	7:t3:199:VAL:HG23	1.79	0.64
5:h6:333:PHE:HD2	5:h6:460:ARG:HE	1.42	0.64
5:k7:196:LEU:HD21	5:k7:341:ARG:HD2	1.78	0.64
5:o7:255:ARG:NH2	5:o7:437:SER:O	2.30	0.64
8:AK:245:VAL:HG22	8:AK:286:VAL:HG12	1.80	0.64
10:AV:13:LEU:HD12	10:AV:27:PRO:HB2	1.79	0.64
2:h:187:ILE:O	2:j:182:ASN:ND2	2.31	0.64
3:I:81:VAL:HB	3:I:93:PHE:HB2	1.80	0.64
6:v1:29:ASN:H	6:v1:134:GLY:HA3	1.63	0.64
7:Y3:156:THR:HG23	7:Y3:157:SER:H	1.63	0.64
1:a5:2:VAL:HG21	6:l5:87:VAL:HG22	1.80	0.64
6:u5:23:VAL:HG21	6:u5:130:VAL:HG21	1.80	0.64
5:o6:297:TRP:HA	5:o6:300:GLU:HG2	1.80	0.64
8:AI:214:LEU:HA	8:AI:217:ILE:HG12	1.79	0.64
5:r1:223:CYS:O	5:r1:226:LYS:NZ	2.31	0.64
7:j3:167:PRO:HA	7:j3:191:SER:HB3	1.78	0.64
7:l3:156:THR:HG23	7:l3:157:SER:H	1.63	0.64
5:r6:316:THR:HG22	5:r6:317:SER:H	1.63	0.64
8:AG:132:SER:HA	8:AG:191:ASN:HD22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AS:92:ARG:HB3	9:AS:94:ARG:HH12	1.62	0.64
5:h1:334:PRO:HA	5:k1:346:GLN:HE22	1.63	0.64
5:n1:377:ARG:HH11	5:n1:378:GLU:HG3	1.62	0.64
6:s1:91:GLU:HG3	6:s1:92:THR:HG23	1.80	0.64
7:R3:64:VAL:HG23	7:R3:199:VAL:HG13	1.80	0.64
7:W3:210:ASP:OD1	7:W3:214:ASN:N	2.31	0.64
7:n3:210:ASP:OD1	7:n3:214:ASN:N	2.28	0.64
1:a6:6:CYS:HB3	6:l6:99:CYS:HA	1.79	0.64
5:k6:425:ARG:NH1	5:k6:448:GLU:OE2	2.31	0.64
8:AA:119:LEU:HD21	8:AB:201:ILE:HG12	1.80	0.64
8:AH:396:ILE:HG23	8:AH:400:GLU:HG3	1.80	0.64
8:AJ:140:ASN:ND2	8:AK:16:PRO:O	2.31	0.64
9:AS:92:ARG:HB3	9:AS:94:ARG:HH22	1.63	0.64
1:c:4:LEU:O	1:c:5:ASN:OD1	2.15	0.63
2:p:52:LYS:N	2:p:132:THR:O	2.29	0.63
2:j:112:GLN:OE1	2:j:114:TRP:NE1	2.27	0.63
5:o1:221:TYR:HD1	5:r1:293:GLU:HG3	1.63	0.63
5:r1:243:LYS:HG2	5:r1:244:THR:H	1.63	0.63
7:c3:74:ALA:HB2	7:c3:91:LEU:HD11	1.79	0.63
7:q3:156:THR:HG23	7:q3:157:SER:H	1.62	0.63
7:t3:210:ASP:OD1	7:t3:214:ASN:N	2.30	0.63
1:a7:17:ARG:NH2	5:n7:401:ASP:OD2	2.32	0.63
8:AA:108:MET:H	8:AB:360:MET:HE1	1.62	0.63
8:AE:30:PHE:HE1	8:AE:207:PHE:HB3	1.61	0.63
10:AV:38:PRO:HG3	10:AV:66:LEU:HD13	1.80	0.63
5:g1:187:ASN:HD21	5:r1:214:ASP:HA	1.64	0.63
5:k2:243:LYS:HZ2	6:m2:29:ASN:HB2	1.63	0.63
7:V3:10:ASN:HB3	7:W3:1:MET:O	1.98	0.63
7:e3:74:ALA:HB2	7:e3:91:LEU:HD21	1.80	0.63
7:g3:22:CYS:O	7:g3:23:CYS:C	2.42	0.63
7:33:167:PRO:HA	7:33:191:SER:HB3	1.80	0.63
5:n5:240:LEU:HD12	6:p5:137:ARG:H	1.63	0.63
6:l6:46:THR:HG22	6:l6:88:THR:HG22	1.81	0.63
6:s6:30:GLN:HG2	6:t6:2:ASN:HA	1.80	0.63
5:n7:313:VAL:HG12	5:n7:314:ASN:H	1.64	0.63
8:AC:18:PRO:C	8:AC:20:ALA:H	2.06	0.63
8:AJ:55:PRO:HA	8:AK:216:ALA:HB1	1.80	0.63
8:AK:228:MET:HE1	8:AL:223:LEU:HD22	1.80	0.63
2:b:71:ALA:HB1	2:b:132:THR:HG21	1.79	0.63
2:n:198:ARG:HD2	8:AE:253:ASP:HB2	1.79	0.63
5:o1:255:ARG:NH2	5:o1:437:SER:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:u2:25:VAL:HG12	6:u2:132:MET:HE1	1.80	0.63
7:V3:59:PHE:HE2	7:V3:175:ARG:HE	1.46	0.63
7:k3:156:THR:HG23	7:k3:157:SER:H	1.64	0.63
6:s5:10:PRO:HD2	6:s5:132:MET:HB2	1.80	0.63
8:AA:156:ARG:HG3	8:AA:157:TYR:HD1	1.64	0.63
8:AF:130:LYS:HB2	8:AF:145:LEU:HD21	1.80	0.63
9:AS:48:THR:HG22	9:AS:49:LYS:O	1.98	0.63
2:n:168:ASN:HA	2:m:175:GLN:HE21	1.62	0.63
2:p:15:HIS:ND1	2:i:32:TYR:OH	2.31	0.63
2:j:71:ALA:HB3	2:j:130:TYR:HE2	1.61	0.63
5:h2:343:VAL:HG22	5:h2:386:LEU:HD11	1.80	0.63
7:V3:208:ALA:HB3	7:V3:216:PHE:HB2	1.80	0.63
7:C3:210:ASP:OD1	7:C3:214:ASN:N	2.27	0.63
6:s5:13:ILE:HD13	6:t5:127:GLN:HB3	1.80	0.63
6:s5:30:GLN:HB2	6:s5:133:LYS:HB3	1.80	0.63
8:AB:280:ALA:HA	8:AC:247:ALA:HB3	1.80	0.63
8:AG:359:SER:HB2	8:AG:368:ARG:HB2	1.80	0.63
8:AH:73:TRP:HH2	8:AH:113:LEU:HD22	1.63	0.63
2:o:186:VAL:HA	2:o:191:GLN:HG2	1.80	0.63
5:o1:291:VAL:HA	6:u1:106:MET:HE3	1.81	0.63
7:e3:104:ILE:HG12	7:e3:117:LEU:HD12	1.80	0.63
7:f3:77:ARG:NH2	7:f3:158:GLU:OE1	2.31	0.63
1:b5:27:ARG:HD3	5:g5:309:LEU:HD22	1.81	0.63
6:l6:24:LYS:HE3	6:l6:109:GLN:HB3	1.80	0.63
8:AD:404:VAL:HG13	8:AD:405:THR:HG23	1.79	0.63
8:AH:100:ILE:HD11	8:AH:141:ALA:HA	1.80	0.63
8:AK:64:LEU:HD11	8:AK:315:ILE:HD11	1.80	0.63
3:AP:33:ILE:HD11	3:AP:73:VAL:HG21	1.81	0.63
2:q:73:PRO:HA	2:q:132:THR:HG22	1.79	0.63
2:q:168:ASN:H	2:m:163:VAL:CG2	2.11	0.63
2:h:43:TYR:HA	8:AH:252:ASP:HA	1.80	0.63
2:i:142:ALA:HA	2:i:145:ILE:HD12	1.80	0.63
3:H:49:GLN:C	3:H:51:GLY:H	2.06	0.63
7:r3:156:THR:HG23	7:r3:157:SER:H	1.64	0.63
6:q5:67:ARG:HD3	6:q5:84:LEU:HD13	1.79	0.63
5:g6:211:LYS:HE3	5:g6:240:LEU:HD11	1.81	0.63
8:AC:210:GLN:O	8:AC:215:GLN:NE2	2.30	0.63
8:AE:396:ILE:HG23	8:AE:400:GLU:HG3	1.80	0.63
7:Z3:167:PRO:HA	7:Z3:191:SER:HB3	1.80	0.63
6:u5:30:GLN:HG3	6:v5:2:ASN:HA	1.81	0.63
5:k7:257:ASN:HA	5:k7:260:GLU:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:q:46:LEU:HD21	2:q:140:VAL:HG22	1.79	0.63
5:r1:432:TYR:HB2	5:r1:444:GLN:HG3	1.81	0.63
6:p2:52:HIS:HB2	6:p2:110:TRP:HB2	1.79	0.63
6:u7:6:GLY:HA3	6:v7:100:ALA:HB1	1.80	0.63
8:AD:352:THR:HA	8:AD:355:GLU:HG2	1.79	0.63
2:h:151:LEU:HD13	2:h:185:ALA:HB2	1.81	0.63
5:h2:199:GLN:HB3	8:AE:29:ARG:HA	1.80	0.63
5:h2:200:ILE:H	8:AE:29:ARG:CZ	2.12	0.63
7:K3:156:THR:HG23	7:K3:157:SER:H	1.64	0.63
7:Q3:156:THR:HG23	7:Q3:157:SER:H	1.63	0.63
7:p3:133:GLY:H	7:p3:152:VAL:HG23	1.64	0.63
5:o5:255:ARG:NH2	5:o5:437:SER:O	2.30	0.63
8:AC:132:SER:HA	8:AC:191:ASN:HD22	1.63	0.63
8:AC:231:ALA:HA	8:AC:296:ILE:HG22	1.79	0.63
2:k:132:THR:HG22	2:k:133:GLY:H	1.64	0.62
1:a1:2:VAL:HG21	6:l1:87:VAL:HG22	1.80	0.62
1:b1:2:VAL:HG21	6:s1:87:VAL:HG12	1.80	0.62
7:T3:38:MET:HG2	7:T3:185:LYS:HG2	1.81	0.62
5:r5:254:ASN:ND2	5:r5:257:ASN:OD1	2.32	0.62
6:u6:2:ASN:HA	6:v6:30:GLN:HG2	1.81	0.62
6:u6:46:THR:HG23	6:u6:116:ALA:HB3	1.81	0.62
2:m:68:ILE:HG22	2:m:100:VAL:HG12	1.81	0.62
3:H:19:VAL:HA	3:H:25:LEU:HA	1.80	0.62
3:H:37:ALA:HB2	3:H:67:MET:HE3	1.81	0.62
6:s1:89:LEU:HD11	6:s1:93:VAL:HG11	1.81	0.62
6:t1:30:GLN:HB2	6:t1:133:LYS:HB3	1.81	0.62
6:q2:11:SER:HB3	6:q2:131:THR:HG22	1.80	0.62
7:b3:59:PHE:HE2	7:b3:175:ARG:HE	1.46	0.62
7:d3:156:THR:HG23	7:d3:157:SER:H	1.64	0.62
7:d3:167:PRO:HA	7:d3:191:SER:HB3	1.80	0.62
5:g6:182:LEU:HD22	5:r6:209:TYR:HA	1.80	0.62
6:p6:133:LYS:HZ2	6:q6:3:PHE:HB2	1.63	0.62
5:g7:223:CYS:HB3	5:h7:292:ASN:HA	1.80	0.62
8:AA:214:LEU:HA	8:AA:217:ILE:HG12	1.80	0.62
8:AE:156:ARG:HG3	8:AE:157:TYR:HD1	1.64	0.62
8:AG:239:PRO:O	8:AG:291:ASN:ND2	2.32	0.62
8:AG:396:ILE:HG23	8:AG:400:GLU:HG3	1.81	0.62
8:AL:25:ILE:HA	8:AL:28:ARG:HH21	1.62	0.62
1:c:21:PRO:O	5:g5:324:GLN:NE2	2.26	0.62
7:b3:74:ALA:HB2	7:b3:91:LEU:HD21	1.80	0.62
6:l7:46:THR:HG22	6:l7:88:THR:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:297:HIS:HE1	8:AH:299:LYS:HB3	1.64	0.62
8:AL:154:PHE:HA	8:AL:160:VAL:HA	1.80	0.62
10:AZ:64:MET:HE3	10:AZ:119:ILE:HD13	1.80	0.62
2:a:157:ASN:OD1	2:a:158:ASN:ND2	2.31	0.62
7:X3:59:PHE:HE2	7:X3:175:ARG:HE	1.44	0.62
7:w3:2:TYR:HB2	7:w3:37:VAL:HG22	1.81	0.62
7:73:210:ASP:OD1	7:73:214:ASN:N	2.29	0.62
6:v5:48:ASN:HB3	6:v5:67:ARG:HH12	1.64	0.62
5:h7:333:PHE:HD2	5:h7:460:ARG:HE	1.45	0.62
6:s7:30:GLN:HB2	6:s7:133:LYS:HB3	1.82	0.62
8:AF:404:VAL:HG13	8:AF:405:THR:HG23	1.82	0.62
8:AG:231:ALA:HA	8:AG:296:ILE:HG22	1.81	0.62
3:AP:41:PRO:HD3	3:AN:103:GLU:HG2	1.81	0.62
2:j:198:ARG:HH11	8:AG:253:ASP:H	1.47	0.62
5:k1:389:PRO:HG3	5:k1:409:VAL:HG12	1.82	0.62
5:g2:185:ASP:HA	5:r2:212:ILE:HG23	1.81	0.62
7:T3:156:THR:HG23	7:T3:157:SER:H	1.64	0.62
1:e5:4:LEU:HD21	6:v5:87:VAL:HG23	1.82	0.62
5:r5:254:ASN:HB3	5:r5:257:ASN:HB2	1.81	0.62
6:t6:28:PHE:HA	6:t6:135:ALA:HB3	1.81	0.62
10:Ab:14:ILE:HG12	10:Ab:87:VAL:HG12	1.81	0.62
2:a:44:THR:O	2:a:46:LEU:N	2.32	0.62
2:i:17:LYS:O	3:AM:6:ARG:NH2	2.32	0.62
5:g1:344:MET:HE2	5:g1:380:ILE:HG21	1.81	0.62
5:h1:217:GLN:NE2	5:h1:219:GLY:O	2.32	0.62
6:t1:9:PHE:CE1	6:t1:133:LYS:HG2	2.35	0.62
6:l2:46:THR:HG22	6:l2:88:THR:HG22	1.81	0.62
7:g3:156:THR:HG23	7:g3:157:SER:H	1.64	0.62
7:j3:156:THR:HG23	7:j3:157:SER:H	1.65	0.62
7:s3:57:THR:HG21	7:s3:184:LEU:HD11	1.82	0.62
7:y3:133:GLY:H	7:y3:152:VAL:HG23	1.63	0.62
7:43:167:PRO:HA	7:43:191:SER:HB3	1.80	0.62
5:g5:211:LYS:HG2	5:h5:184:VAL:HG23	1.82	0.62
5:k5:429:PHE:HZ	8:AA:29:ARG:HH12	1.48	0.62
6:l6:30:GLN:HB2	6:l6:133:LYS:HB3	1.82	0.62
6:u6:62:PRO:HG3	6:u6:110:TRP:CD2	2.34	0.62
8:AA:282:THR:HG23	8:AB:249:ARG:NH1	2.13	0.62
8:AF:153:LYS:HE3	8:AF:162:SER:HB2	1.81	0.62
10:AU:38:PRO:HG3	10:AU:66:LEU:HD13	1.82	0.62
1:c:24:PHE:HD2	5:h5:357:ASP:HA	1.64	0.62
1:e:21:PRO:O	5:g1:324:GLN:NE2	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:19:VAL:HG12	5:g7:309:LEU:HD11	1.81	0.62
7:a3:110:PRO:HG3	7:a3:115:VAL:HG23	1.81	0.62
7:j3:110:PRO:HG3	7:j3:115:VAL:HG23	1.80	0.62
7:33:9:ARG:HH22	7:43:230:GLY:HA2	1.65	0.62
7:63:30:ARG:HD2	7:63:230:GLY:H	1.65	0.62
7:93:74:ALA:HB2	7:93:91:LEU:HD11	1.82	0.62
7:C3:100:VAL:HG12	7:C3:142:ASN:HD21	1.63	0.62
6:t5:30:GLN:HB2	6:t5:133:LYS:HB3	1.81	0.62
6:u5:28:PHE:CD1	6:u5:134:GLY:HA3	2.32	0.62
5:g6:340:ALA:O	5:g6:379:ARG:NH1	2.32	0.62
6:u6:52:HIS:HB2	6:u6:110:TRP:HB2	1.80	0.62
9:AT:50:LEU:HB3	9:AT:51:PRO:HD3	1.81	0.62
2:l:150:LYS:HB2	2:l:190:ALA:HB2	1.82	0.62
2:n:73:PRO:O	2:n:134:ARG:NH2	2.32	0.62
2:q:17:LYS:O	3:AO:6:ARG:NH2	2.32	0.62
2:j:57:PRO:HA	2:j:127:MET:HA	1.82	0.62
3:I:41:PRO:HD3	3:AM:103:GLU:HG2	1.82	0.62
7:S3:27:ILE:HD13	7:S3:222:TYR:HB3	1.82	0.62
7:F3:167:PRO:HA	7:F3:191:SER:HB3	1.81	0.62
7:G3:8:PRO:HB3	7:G3:43:ALA:HB1	1.81	0.62
6:u5:46:THR:HG23	6:u5:116:ALA:HB3	1.80	0.62
8:AD:156:ARG:HG3	8:AD:157:TYR:HD1	1.65	0.62
8:AJ:153:LYS:HE3	8:AJ:162:SER:HB3	1.81	0.62
2:m:167:ARG:HE	2:m:168:ASN:H	1.48	0.62
6:t1:24:LYS:HA	6:t1:110:TRP:HB3	1.80	0.62
7:N3:210:ASP:OD1	7:N3:214:ASN:N	2.32	0.62
7:o3:156:THR:HG23	7:o3:157:SER:H	1.65	0.62
6:l5:42:THR:OG1	6:l5:122:ASN:ND2	2.33	0.62
5:h7:281:ARG:HH21	5:h7:449:ASP:HB2	1.64	0.62
8:AA:28:ARG:HH11	8:AL:170:GLY:H	1.46	0.62
8:AE:217:ILE:HB	8:AE:309:ILE:HG22	1.81	0.62
8:AG:297:HIS:HE1	8:AG:299:LYS:HB2	1.65	0.62
8:AH:379:LEU:HG	8:AH:383:ARG:HG3	1.82	0.62
8:AL:77:LYS:NZ	8:AL:86:ASP:OD2	2.33	0.62
8:AL:396:ILE:HG23	8:AL:400:GLU:HG3	1.82	0.62
2:o:132:THR:HG22	2:o:133:GLY:H	1.64	0.62
7:m3:156:THR:HG23	7:m3:157:SER:H	1.63	0.62
7:93:161:GLN:NE2	7:93:162:PRO:O	2.33	0.62
10:AV:50:LEU:O	10:Aa:61:ASN:ND2	2.25	0.62
10:AV:128:LEU:O	10:AV:129:PRO:C	2.43	0.62
2:n:53:THR:HA	2:n:131:VAL:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t2:24:LYS:HA	6:t2:110:TRP:HB3	1.81	0.61
7:P3:210:ASP:OD1	7:P3:214:ASN:N	2.26	0.61
7:T3:51:HIS:NE2	5:g7:228:ASP:OD2	2.32	0.61
7:U3:168:VAL:HG21	7:U3:224:ILE:HD12	1.82	0.61
7:Z3:210:ASP:HB3	7:Z3:216:PHE:HE2	1.64	0.61
7:h3:75:PHE:HD1	7:h3:149:VAL:HG13	1.64	0.61
7:G3:38:MET:HG2	7:G3:185:LYS:HG2	1.81	0.61
5:g6:182:LEU:HD13	5:r6:210:MET:H	1.64	0.61
8:AK:46:MET:SD	8:AK:50:ARG:NH1	2.73	0.61
2:h:61:LYS:HB3	2:h:66:LYS:HB2	1.81	0.61
5:k1:210:MET:SD	5:k1:239:HIS:ND1	2.65	0.61
7:e3:136:ARG:HG2	7:e3:149:VAL:HG13	1.82	0.61
6:l6:58:ASP:HB3	6:l6:61:VAL:HG22	1.81	0.61
6:p6:41:LEU:HG	6:p6:42:THR:H	1.65	0.61
6:t7:24:LYS:HA	6:t7:110:TRP:HB3	1.83	0.61
8:AJ:182:LYS:HE3	8:AJ:188:PRO:HG3	1.82	0.61
10:Aa:41:LYS:HD3	10:Aa:63:THR:HG22	1.82	0.61
3:AO:17:SER:H	9:AX:49:LYS:HZ2	1.48	0.61
2:j:136:CYS:O	7:K3:18:VAL:N	2.33	0.61
6:s1:11:SER:H	6:t1:34:THR:HG21	1.66	0.61
5:n2:306:PHE:HE1	5:n2:460:ARG:HD2	1.64	0.61
7:V3:207:VAL:HG12	7:V3:217:VAL:HG23	1.82	0.61
5:g5:182:LEU:HD13	5:r5:210:MET:H	1.65	0.61
6:m6:68:VAL:HG23	6:m6:107:ASN:HD21	1.66	0.61
5:g7:207:PHE:HB2	5:h7:180:LEU:HD22	1.82	0.61
8:AE:108:MET:H	8:AF:360:MET:HE1	1.64	0.61
5:h1:212:ILE:HG22	5:h1:237:ILE:HG23	1.82	0.61
5:r1:306:PHE:HE2	5:r1:460:ARG:HD3	1.66	0.61
7:E3:27:ILE:HB	7:E3:224:ILE:HG22	1.81	0.61
8:AD:246:THR:OG1	8:AD:285:LYS:NZ	2.33	0.61
8:AF:129:PHE:HB3	8:AF:142:ILE:HD11	1.82	0.61
8:AJ:201:ILE:HG23	8:AJ:202:ASN:HD22	1.66	0.61
1:d:21:PRO:O	5:g6:324:GLN:NE2	2.26	0.61
2:i:110:ARG:HB2	5:h7:239:HIS:HB2	1.80	0.61
7:f3:168:VAL:HG12	7:f3:190:VAL:HG12	1.82	0.61
7:z3:2:TYR:HB2	7:z3:37:VAL:HG22	1.83	0.61
5:k6:197:TYR:OH	5:k6:297:TRP:NE1	2.34	0.61
8:AE:298:SER:HB3	8:AE:301:PRO:HG2	1.81	0.61
8:AK:396:ILE:HG23	8:AK:400:GLU:HG3	1.81	0.61
8:AL:28:ARG:HG3	8:AL:29:ARG:N	2.11	0.61
9:AW:84:PHE:HB2	9:AW:145:ILE:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:146:ILE:HD13	2:q:35:ALA:HB1	1.83	0.61
6:l1:49:ILE:HD11	6:l1:87:VAL:HG23	1.83	0.61
5:o2:189:GLU:HG2	5:o2:190:CYS:H	1.65	0.61
7:J3:104:ILE:HG12	7:J3:117:LEU:HD22	1.81	0.61
7:Q3:210:ASP:OD1	7:Q3:214:ASN:N	2.30	0.61
7:73:79:LYS:HE3	7:73:155:THR:HA	1.81	0.61
6:u6:54:PRO:HD3	6:u6:109:GLN:HG3	1.81	0.61
2:n:112:GLN:OE1	2:n:114:TRP:NE1	2.24	0.61
2:i:57:PRO:HA	2:i:127:MET:HA	1.82	0.61
2:i:80:VAL:HG11	7:S3:47:PRO:HA	1.83	0.61
5:h1:455:CYS:HB2	5:k1:186:CYS:SG	2.41	0.61
7:a3:156:THR:HG23	7:a3:157:SER:H	1.65	0.61
5:g5:248:ARG:HH22	5:n6:438:ALA:HB3	1.66	0.61
5:n6:361:ARG:HB3	5:o6:361:ARG:HH21	1.65	0.61
5:h7:219:GLY:HA3	5:k7:247:TYR:CZ	2.35	0.61
8:AA:396:ILE:HG23	8:AA:400:GLU:HG3	1.81	0.61
8:AC:404:VAL:HG13	8:AC:405:THR:HG23	1.82	0.61
2:n:173:ASN:HD21	2:n:177:LEU:HB2	1.66	0.61
2:h:168:ASN:H	2:j:163:VAL:HG12	1.66	0.61
5:n1:217:GLN:HB2	5:n1:233:GLU:HB3	1.83	0.61
5:k2:424:LYS:HD3	5:k2:448:GLU:HG2	1.83	0.61
5:o2:247:TYR:O	5:o2:447:ALA:N	2.32	0.61
7:K3:210:ASP:OD1	7:K3:214:ASN:N	2.33	0.61
7:13:156:THR:HG23	7:13:157:SER:H	1.64	0.61
5:o6:217:GLN:HE22	5:r6:280:ASN:HB2	1.65	0.61
5:n7:425:ARG:NH2	5:n7:448:GLU:OE2	2.33	0.61
8:AA:281:GLY:HA3	8:AB:249:ARG:CZ	2.31	0.61
8:AF:55:PRO:HA	8:AG:216:ALA:HB1	1.83	0.61
8:AI:396:ILE:HG23	8:AI:400:GLU:HG3	1.83	0.61
8:AL:200:SER:HB2	8:AL:211:ASN:HD21	1.66	0.61
2:l:138:ASN:HB3	2:l:140:VAL:HG22	1.83	0.61
4:f1:24:ARG:NH1	5:k1:325:ASP:OD2	2.30	0.61
6:u1:52:HIS:HB2	6:u1:110:TRP:HB2	1.82	0.61
7:33:30:ARG:HD2	7:33:230:GLY:H	1.65	0.61
7:C3:38:MET:HG2	7:C3:185:LYS:HG2	1.82	0.61
8:AK:239:PRO:O	8:AK:291:ASN:ND2	2.34	0.61
1:e:19:VAL:HG12	5:g1:309:LEU:HD11	1.82	0.61
6:u1:28:PHE:CD1	6:u1:134:GLY:HA3	2.35	0.61
5:h2:285:LEU:HD12	5:h2:419:PHE:HE2	1.66	0.61
5:r2:243:LYS:HD3	6:t2:29:ASN:HB2	1.81	0.61
7:J3:59:PHE:HE2	7:J3:175:ARG:HE	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O3:184:LEU:HD12	7:O3:206:GLN:HE21	1.66	0.61
7:S3:10:ASN:ND2	7:T3:1:MET:O	2.33	0.61
7:g3:21:SER:O	7:g3:22:CYS:C	2.44	0.61
7:k3:210:ASP:OD1	7:k3:214:ASN:N	2.33	0.61
7:B3:167:PRO:HA	7:B3:191:SER:HB3	1.81	0.61
5:o6:291:VAL:HG12	6:u6:106:MET:HG3	1.82	0.61
8:AD:183:ASN:N	8:AD:187:ARG:O	2.34	0.61
8:AI:381:LYS:HD2	8:AJ:386:ILE:HD11	1.83	0.61
7:z3:210:ASP:OD1	7:z3:214:ASN:N	2.28	0.60
7:63:2:TYR:HB2	7:63:37:VAL:HG22	1.82	0.60
7:63:167:PRO:HA	7:63:191:SER:HB3	1.82	0.60
6:u5:13:ILE:HD11	6:u5:16:ASP:HB3	1.81	0.60
8:AF:99:GLN:HE22	8:AG:83:GLN:HG3	1.66	0.60
8:AH:55:PRO:HA	8:AI:216:ALA:HB1	1.82	0.60
8:AI:293:LEU:HA	8:AI:296:ILE:HD11	1.83	0.60
9:AQ:48:THR:HG23	3:AP:17:SER:HB3	1.82	0.60
10:AU:40:TYR:N	10:AZ:110:SER:O	2.32	0.60
3:AN:15:GLN:OE1	3:AN:80:TRP:NE1	2.34	0.60
2:b:78:PRO:HB2	2:b:91:GLU:HB2	1.81	0.60
2:n:15:HIS:ND1	2:q:32:TYR:OH	2.34	0.60
6:s1:10:PRO:HD2	6:s1:132:MET:HB2	1.83	0.60
5:n2:250:VAL:HG12	5:n2:444:GLN:HG2	1.83	0.60
7:P3:80:VAL:HG12	7:P3:155:THR:HG23	1.83	0.60
7:73:38:MET:HG2	7:73:185:LYS:HG2	1.83	0.60
6:p5:47:PHE:HZ	6:p5:126:VAL:HG11	1.66	0.60
5:g7:344:MET:HE1	5:g7:349:PHE:HB2	1.83	0.60
8:AA:381:LYS:HD3	8:AB:386:ILE:HD11	1.83	0.60
8:AK:231:ALA:HA	8:AK:296:ILE:HG22	1.82	0.60
1:g:4:LEU:O	1:g:5:ASN:OD1	2.17	0.60
7:b3:210:ASP:OD1	7:b3:214:ASN:N	2.34	0.60
7:m3:210:ASP:OD1	7:m3:214:ASN:N	2.35	0.60
5:g5:220:GLU:HA	5:h5:247:TYR:HE1	1.66	0.60
5:r5:316:THR:HG22	5:r5:317:SER:H	1.66	0.60
6:v6:89:LEU:HD12	6:v6:90:PRO:HD2	1.83	0.60
6:u7:2:ASN:ND2	6:v7:102:THR:OG1	2.34	0.60
8:AC:167:ASP:HB2	8:AD:28:ARG:HH12	1.66	0.60
9:AQ:156:CYS:HG	10:AZ:3:CYS:N	1.99	0.60
2:j:55:VAL:HG23	2:j:129:THR:HG22	1.84	0.60
5:r2:386:LEU:HD23	5:r2:408:PHE:HE1	1.65	0.60
7:73:100:VAL:HG12	7:73:142:ASN:HD21	1.66	0.60
5:r5:306:PHE:HE2	5:r5:460:ARG:HD3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s5:30:GLN:HG2	6:t5:2:ASN:HA	1.82	0.60
5:o6:189:GLU:HG2	5:o6:190:CYS:H	1.65	0.60
6:p6:30:GLN:HB2	6:p6:133:LYS:HB3	1.84	0.60
6:q6:23:VAL:HG11	6:q6:130:VAL:HG11	1.83	0.60
1:b7:9:LEU:O	6:t7:137:ARG:NH2	2.34	0.60
1:e7:21:PRO:HB3	5:r7:351:TYR:CZ	2.37	0.60
8:AF:89:MET:HE3	8:AF:187:ARG:HH11	1.66	0.60
8:AF:199:PRO:O	8:AF:211:ASN:ND2	2.35	0.60
8:AF:280:ALA:HA	8:AG:247:ALA:HB3	1.82	0.60
10:AU:6:GLN:NE2	9:AR:128:THR:OG1	2.33	0.60
9:AX:83:GLU:HG3	9:AX:146:GLU:HB3	1.83	0.60
2:a:45:GLY:O	2:a:46:LEU:C	2.44	0.60
2:n:122:VAL:HG23	2:n:123:GLU:H	1.66	0.60
2:k:50:PRO:O	2:k:52:LYS:HG2	2.02	0.60
7:h3:59:PHE:HE2	7:h3:175:ARG:HE	1.47	0.60
1:a5:17:ARG:NH2	5:n5:401:ASP:OD2	2.35	0.60
5:r5:375:LEU:HB3	5:r5:380:ILE:HB	1.82	0.60
6:u5:30:GLN:HB2	6:u5:133:LYS:HB3	1.83	0.60
8:AA:232:ILE:HD13	8:AB:223:LEU:HD13	1.83	0.60
2:k:167:ARG:NH2	2:k:169:THR:HG22	2.17	0.60
7:V3:104:ILE:HG12	7:V3:117:LEU:HD22	1.83	0.60
7:e3:21:SER:OG	7:e3:22:CYS:N	2.34	0.60
7:g3:59:PHE:HE2	7:g3:175:ARG:HE	1.48	0.60
7:i3:59:PHE:HE2	7:i3:175:ARG:HE	1.50	0.60
7:D3:167:PRO:HA	7:D3:191:SER:HB3	1.84	0.60
5:h7:429:PHE:O	8:AB:29:ARG:HD3	2.00	0.60
3:AP:81:VAL:HB	3:AP:93:PHE:HB2	1.83	0.60
2:l:43:TYR:HE2	2:l:194:TRP:HB3	1.66	0.60
2:l:66:LYS:H	2:l:66:LYS:HD2	1.66	0.60
2:k:17:LYS:HE3	3:AP:106:ARG:HD2	1.81	0.60
3:H:81:VAL:HB	3:H:93:PHE:HB2	1.82	0.60
1:e1:21:PRO:HB3	5:r1:351:TYR:CZ	2.36	0.60
5:n1:189:GLU:HG2	5:n1:190:CYS:H	1.67	0.60
6:p1:41:LEU:HG	6:p1:42:THR:H	1.67	0.60
6:s2:47:PHE:HZ	6:s2:126:VAL:HG11	1.67	0.60
7:R3:184:LEU:HD12	7:R3:206:GLN:HE21	1.67	0.60
7:a3:51:HIS:CD2	7:a3:211:CYS:HA	2.36	0.60
7:u3:205:ARG:HB3	7:v3:107:LEU:HD12	1.82	0.60
5:n5:306:PHE:HE1	5:n5:460:ARG:HD2	1.66	0.60
6:l7:68:VAL:HG23	6:l7:107:ASN:HD21	1.66	0.60
8:AJ:25:ILE:O	8:AJ:28:ARG:NE	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:82:TYR:HA	2:m:86:LEU:HD22	1.82	0.60
5:o1:247:TYR:O	5:o1:447:ALA:N	2.31	0.60
5:r2:351:TYR:HE2	5:r2:396:GLY:HA3	1.67	0.60
6:v2:48:ASN:HB3	6:v2:67:ARG:HH12	1.67	0.60
7:k3:59:PHE:HE2	7:k3:175:ARG:HE	1.50	0.60
7:63:133:GLY:H	7:63:152:VAL:HG23	1.67	0.60
6:l5:46:THR:HG22	6:l5:88:THR:HG22	1.82	0.60
6:q5:52:HIS:HB2	6:q5:110:TRP:HB2	1.83	0.60
4:f6:16:VAL:HG23	5:k6:396:GLY:H	1.67	0.60
6:q6:49:ILE:HD11	6:q6:87:VAL:HG13	1.83	0.60
5:g7:193:LEU:HD11	5:g7:383:SER:HB2	1.82	0.60
8:AH:156:ARG:HG3	8:AH:157:TYR:HD1	1.67	0.60
8:AH:294:SER:O	8:AH:299:LYS:NZ	2.35	0.60
2:n:186:VAL:HA	2:n:191:GLN:HG2	1.82	0.60
2:p:44:THR:HG22	2:p:198:ARG:HB2	1.84	0.60
2:i:112:GLN:OE1	2:i:114:TRP:NE1	2.31	0.60
6:u1:89:LEU:HD12	6:u1:90:PRO:HD2	1.83	0.60
7:T3:210:ASP:OD1	7:T3:214:ASN:N	2.34	0.60
7:n3:64:VAL:HG23	7:n3:199:VAL:HG23	1.84	0.60
7:53:167:PRO:HA	7:53:191:SER:HB3	1.83	0.60
7:A3:167:PRO:HA	7:A3:191:SER:HB3	1.83	0.60
5:o6:375:LEU:HD23	5:o6:377:ARG:H	1.67	0.60
5:r7:254:ASN:HB3	5:r7:257:ASN:HB2	1.83	0.60
8:AB:214:LEU:HA	8:AB:217:ILE:HG12	1.83	0.60
8:AF:167:ASP:N	8:AG:28:ARG:HH12	1.99	0.60
8:AF:168:GLU:HG2	8:AF:169:ALA:N	2.17	0.60
8:AF:317:ILE:H	8:AF:317:ILE:HD12	1.67	0.60
9:AQ:31:ARG:O	9:AQ:33:ILE:HD12	2.02	0.60
3:AN:43:LYS:HD2	3:AN:62:THR:HG22	1.84	0.60
2:m:112:GLN:OE1	2:m:114:TRP:NE1	2.27	0.60
6:t2:28:PHE:HA	6:t2:135:ALA:HB3	1.83	0.60
7:M3:208:ALA:HB3	7:M3:216:PHE:HB2	1.84	0.60
7:O3:37:VAL:HG23	7:O3:188:LEU:HD22	1.84	0.60
7:W3:39:VAL:HG23	7:W3:184:LEU:HB3	1.83	0.60
7:B3:200:TYR:HB2	7:B3:224:ILE:HG13	1.83	0.60
1:b6:2:VAL:HG21	6:s6:87:VAL:HG12	1.82	0.60
5:n7:440:CYS:SG	5:n7:441:VAL:N	2.75	0.60
8:AC:39:VAL:HG13	8:AC:40:VAL:HG23	1.83	0.60
8:AE:83:GLN:HE21	8:AE:366:GLY:H	1.50	0.60
8:AH:374:ASP:HA	8:AH:383:ARG:CZ	2.32	0.60
9:AS:55:VAL:HG22	9:AS:82:VAL:HG22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:94:PRO:HA	2:n:101:LEU:HD11	1.83	0.59
2:q:89:PRO:O	7:N3:49:ARG:NH1	2.26	0.59
2:h:51:GLU:HA	2:h:133:GLY:HA3	1.82	0.59
6:s2:30:GLN:HB2	6:s2:133:LYS:HB3	1.84	0.59
7:P3:29:ALA:HB1	7:P3:190:VAL:HG21	1.84	0.59
7:U3:53:LEU:HD11	7:U3:182:HIS:HA	1.84	0.59
7:d3:210:ASP:OD1	7:d3:214:ASN:N	2.34	0.59
5:h6:191:ALA:O	5:h6:282:ASN:ND2	2.35	0.59
8:AD:280:ALA:HA	8:AE:247:ALA:HB3	1.84	0.59
8:AL:156:ARG:HG3	8:AL:157:TYR:HD1	1.66	0.59
8:AL:257:LYS:O	8:AL:261:GLU:HG2	2.02	0.59
10:AZ:7:ASN:HB2	10:AV:113:ARG:HD2	1.84	0.59
3:AO:39:ILE:HG22	3:AO:65:ILE:HG23	1.84	0.59
2:n:71:ALA:HB3	2:n:130:TYR:HE2	1.67	0.59
2:q:43:TYR:HA	8:AD:252:ASP:HA	1.84	0.59
6:m2:52:HIS:HB2	6:m2:110:TRP:HB2	1.82	0.59
7:g3:24:CYS:HB2	7:g3:223:ASP:OD1	2.02	0.59
7:z3:210:ASP:OD2	7:z3:214:ASN:ND2	2.34	0.59
7:B3:161:GLN:NE2	7:B3:162:PRO:O	2.35	0.59
5:h5:336:GLU:HG3	5:k5:188:ILE:HG21	1.83	0.59
5:r6:432:TYR:HB2	5:r6:444:GLN:HG3	1.83	0.59
5:h7:212:ILE:HG22	5:h7:237:ILE:HG23	1.84	0.59
8:AE:317:ILE:H	8:AE:317:ILE:HD12	1.67	0.59
8:AK:69:GLN:HE21	8:AK:111:ALA:HB1	1.66	0.59
2:a:42:LEU:HD11	2:j:196:ARG:HB3	1.83	0.59
2:o:5:THR:HG23	2:o:6:LEU:HD12	1.84	0.59
2:i:71:ALA:HB3	2:i:130:TYR:HE2	1.67	0.59
2:k:71:ALA:HB3	2:k:130:TYR:HE2	1.68	0.59
4:f2:18:PRO:HB3	5:k2:351:TYR:CZ	2.37	0.59
7:L3:28:SER:OG	7:L3:230:GLY:OXT	2.20	0.59
4:f5:24:ARG:NH1	5:k5:325:ASP:OD2	2.25	0.59
5:k6:223:CYS:SG	5:k6:224:ASP:N	2.75	0.59
5:n6:306:PHE:HE1	5:n6:460:ARG:HD2	1.68	0.59
5:o7:247:TYR:O	5:o7:447:ALA:N	2.33	0.59
5:r7:283:GLN:HA	5:r7:286:MET:HE3	1.84	0.59
8:AA:151:LYS:O	8:AA:164:GLN:N	2.35	0.59
8:AL:34:GLY:HA2	8:AL:153:LYS:HE3	1.84	0.59
10:AU:105:VAL:HG12	10:Ab:47:ASN:HB3	1.83	0.59
2:a:64:ARG:HH11	8:AE:271:ASP:CG	2.10	0.59
2:l:187:ILE:O	2:p:182:ASN:ND2	2.35	0.59
2:k:84:GLY:HA3	2:k:126:LEU:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p1:23:VAL:HG21	6:p1:130:VAL:HG21	1.83	0.59
6:p1:30:GLN:HG2	6:q1:2:ASN:HA	1.84	0.59
5:h2:253:PHE:HZ	5:h2:269:MET:HG3	1.66	0.59
5:h2:333:PHE:HD2	5:h2:460:ARG:HE	1.50	0.59
7:a3:77:ARG:NH1	7:a3:159:LEU:O	2.36	0.59
7:g3:210:ASP:OD1	7:g3:214:ASN:N	2.35	0.59
7:j3:210:ASP:OD1	7:j3:214:ASN:N	2.35	0.59
6:q6:52:HIS:HB2	6:q6:110:TRP:HB2	1.84	0.59
8:AE:293:LEU:HA	8:AE:296:ILE:HD11	1.84	0.59
8:AG:404:VAL:HG13	8:AG:405:THR:HG23	1.84	0.59
8:AI:108:MET:H	8:AJ:360:MET:HE1	1.66	0.59
10:AY:89:VAL:HG12	10:AY:97:MET:HB2	1.84	0.59
2:h:164:MET:SD	2:h:168:ASN:HA	2.43	0.59
5:g1:193:LEU:HD13	5:g1:196:LEU:HD13	1.83	0.59
5:r1:316:THR:HG22	5:r1:317:SER:H	1.66	0.59
6:u1:6:GLY:HA3	6:v1:100:ALA:HB1	1.83	0.59
5:k2:333:PHE:O	5:n2:346:GLN:NE2	2.31	0.59
7:M3:79:LYS:HE3	7:M3:155:THR:HA	1.82	0.59
7:V3:79:LYS:HE3	7:V3:155:THR:HA	1.84	0.59
7:i3:209:ILE:HD11	7:i3:213:GLY:HA2	1.84	0.59
7:k3:75:PHE:HD1	7:k3:149:VAL:HG13	1.67	0.59
7:93:51:HIS:HD2	7:93:211:CYS:HA	1.67	0.59
7:03:38:MET:HG2	7:03:185:LYS:HG2	1.83	0.59
6:u6:6:GLY:HA3	6:v6:100:ALA:HB1	1.84	0.59
6:q7:52:HIS:HB2	6:q7:110:TRP:HB2	1.83	0.59
8:AD:396:ILE:HG23	8:AD:400:GLU:HG3	1.85	0.59
8:AE:267:LYS:O	8:AE:270:GLY:N	2.35	0.59
8:AG:127:MET:HB2	8:AG:196:ILE:HB	1.84	0.59
3:H:46:ARG:HB3	3:H:54:MET:HB2	1.83	0.59
3:I:25:LEU:HD13	9:AW:33:ILE:HG12	1.84	0.59
5:g2:182:LEU:HD13	5:r2:210:MET:H	1.68	0.59
5:h2:226:LYS:O	5:k2:248:ARG:NH1	2.35	0.59
7:U3:75:PHE:HD1	7:U3:149:VAL:HG13	1.67	0.59
7:d3:133:GLY:H	7:d3:152:VAL:HG23	1.67	0.59
7:v3:133:GLY:H	7:v3:152:VAL:HG23	1.68	0.59
7:y3:59:PHE:HE2	7:y3:175:ARG:HE	1.50	0.59
5:k6:255:ARG:H	5:k6:258:LEU:HD13	1.68	0.59
6:m6:89:LEU:HD12	6:m6:90:PRO:HD2	1.85	0.59
6:s7:30:GLN:HG2	6:t7:2:ASN:HA	1.83	0.59
8:AK:242:LYS:NZ	8:AK:291:ASN:HB2	2.18	0.59
9:AS:77:ARG:HD2	9:AS:150:ARG:HD3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:64:ARG:NH2	8:AI:270:GLY:O	2.35	0.59
5:n1:343:VAL:HG12	5:n1:386:LEU:HD11	1.84	0.59
6:q1:67:ARG:HD3	6:q1:84:LEU:HD23	1.85	0.59
5:h2:344:MET:HE3	5:h2:380:ILE:HG23	1.84	0.59
7:w3:64:VAL:HG23	7:w3:199:VAL:HG23	1.84	0.59
5:o5:291:VAL:HG12	6:u5:106:MET:HG3	1.84	0.59
6:l6:100:ALA:HB1	6:m6:6:GLY:HA3	1.84	0.59
6:u6:127:GLN:NE2	6:v6:13:ILE:HB	2.14	0.59
5:o7:425:ARG:NH2	5:o7:448:GLU:OE2	2.36	0.59
5:r7:345:HIS:CD2	5:r7:384:ASN:HA	2.38	0.59
6:u7:2:ASN:HA	6:v7:30:GLN:HG2	1.85	0.59
8:AK:128:ALA:HB1	8:AK:145:LEU:HD12	1.85	0.59
2:l:199:ARG:HD3	8:AA:255:GLN:HE22	1.68	0.59
2:m:15:HIS:CD2	2:m:149:LEU:HB3	2.38	0.59
7:a3:210:ASP:OD1	7:a3:214:ASN:N	2.36	0.59
7:u3:51:HIS:CD2	7:u3:211:CYS:HA	2.37	0.59
6:q7:79:LEU:HG	6:q7:80:SER:H	1.67	0.59
8:AA:181:GLU:HG3	8:AA:189:ILE:HD12	1.85	0.59
2:p:53:THR:HG21	7:R3:8:PRO:HG3	1.85	0.59
3:H:77:VAL:O	3:H:94:LYS:NZ	2.32	0.59
5:n2:218:LEU:HD12	5:o2:445:PHE:CZ	2.38	0.59
5:o6:247:TYR:O	5:o6:447:ALA:N	2.35	0.59
5:r6:334:PRO:HD3	5:r6:460:ARG:HH21	1.68	0.59
5:k7:266:LEU:O	5:k7:270:ILE:HG12	2.02	0.59
8:AE:154:PHE:HA	8:AE:160:VAL:HA	1.85	0.59
3:AO:39:ILE:HG22	3:AO:65:ILE:HD12	1.85	0.59
1:g:17:ARG:HB2	5:h7:394:THR:HG23	1.85	0.59
2:a:17:LYS:O	3:H:6:ARG:NH2	2.36	0.59
2:a:61:LYS:HB2	2:a:66:LYS:HB2	1.85	0.59
5:n1:306:PHE:HE1	5:n1:460:ARG:HD2	1.67	0.59
6:q2:30:GLN:HB2	6:q2:133:LYS:HG2	1.84	0.59
6:l5:30:GLN:HB2	6:l5:133:LYS:HB3	1.85	0.59
5:n6:394:THR:HG23	5:n6:395:LYS:HG2	1.85	0.59
5:k7:197:TYR:OH	5:k7:297:TRP:NE1	2.36	0.59
8:AA:39:VAL:HG23	8:AA:40:VAL:HG13	1.84	0.59
8:AH:267:LYS:HD3	8:AI:237:GLY:HA2	1.83	0.59
8:AK:156:ARG:HG3	8:AK:157:TYR:HD1	1.68	0.59
2:n:51:GLU:HB3	7:M3:12:ALA:HB3	1.85	0.58
7:N3:190:VAL:HG21	7:N3:226:ILE:HD13	1.85	0.58
7:S3:156:THR:HG23	7:S3:157:SER:H	1.67	0.58
7:q3:48:LEU:HG	7:r3:1:MET:HE3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G3:136:ARG:HG2	7:G3:149:VAL:HG12	1.85	0.58
5:g5:334:PRO:HA	5:h5:346:GLN:HE22	1.67	0.58
8:AK:232:ILE:HA	8:AL:223:LEU:HD13	1.85	0.58
3:AM:81:VAL:HB	3:AM:93:PHE:HB2	1.85	0.58
10:AY:30:HIS:HE2	10:AY:79:TYR:HH	1.51	0.58
2:b:138:ASN:O	2:b:140:VAL:N	2.36	0.58
3:H:25:LEU:HD13	9:AS:33:ILE:HG12	1.85	0.58
5:g1:422:VAL:HG23	5:g1:451:GLY:HA2	1.85	0.58
5:n2:208:THR:HG22	5:n2:241:GLU:HG3	1.84	0.58
5:r2:236:ASN:HD21	5:r2:238:ARG:HG3	1.68	0.58
7:Y3:75:PHE:HD1	7:Y3:149:VAL:HG13	1.68	0.58
7:e3:59:PHE:HE2	7:e3:175:ARG:HE	1.49	0.58
7:63:161:GLN:NE2	7:63:162:PRO:O	2.36	0.58
7:F3:38:MET:HG2	7:F3:185:LYS:HG2	1.83	0.58
1:d5:28:GLY:HA3	5:r5:398:THR:HG21	1.84	0.58
5:k5:197:TYR:OH	5:k5:297:TRP:NE1	2.36	0.58
6:m5:52:HIS:HB2	6:m5:110:TRP:HB2	1.85	0.58
6:t5:45:THR:HG23	6:t5:119:SER:HB2	1.85	0.58
1:a6:26:CYS:CB	1:d6:23:CYS:SG	2.90	0.58
6:u7:35:PHE:HB2	6:u7:99:CYS:HB2	1.85	0.58
8:AD:247:ALA:HB1	8:AD:251:LEU:HD12	1.84	0.58
8:AL:133:VAL:HA	8:AL:139:VAL:HA	1.85	0.58
9:AT:38:VAL:HG21	9:AT:81:ILE:HG13	1.85	0.58
2:l:179:GLY:HA2	2:l:182:ASN:ND2	2.18	0.58
2:n:20:ASP:N	2:n:20:ASP:OD1	2.35	0.58
2:o:7:LEU:HD12	2:o:145:ILE:HG23	1.84	0.58
2:m:74:ILE:HD11	2:m:131:VAL:HG13	1.84	0.58
5:o1:455:CYS:SG	5:r1:186:CYS:CB	2.91	0.58
7:V3:29:ALA:HB1	7:V3:190:VAL:HG21	1.85	0.58
7:v3:59:PHE:HE2	7:v3:175:ARG:HE	1.50	0.58
7:13:133:GLY:H	7:13:152:VAL:HG23	1.67	0.58
5:n5:336:GLU:HG2	5:o5:188:ILE:HD12	1.85	0.58
5:n5:366:ASP:OD2	5:o5:361:ARG:NH2	2.36	0.58
5:k6:210:MET:SD	5:k6:239:HIS:ND1	2.71	0.58
6:l6:67:ARG:NH1	6:l6:85:ALA:O	2.26	0.58
6:v6:89:LEU:HD21	6:v6:93:VAL:HG21	1.85	0.58
5:n7:192:SER:O	5:n7:381:ARG:NH2	2.36	0.58
8:AB:25:ILE:O	8:AB:28:ARG:NE	2.34	0.58
8:AC:16:PRO:O	8:AC:17:ALA:C	2.46	0.58
8:AD:112:GLN:NE2	8:AE:197:VAL:O	2.37	0.58
8:AH:379:LEU:HB3	8:AH:383:ARG:NH2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:98:GLN:HG2	8:AJ:82:THR:HG21	1.84	0.58
2:i:175:GLN:HG2	2:i:176:GLY:H	1.68	0.58
3:H:91:ARG:HH22	3:H:114:LEU:HD22	1.69	0.58
1:a1:23:CYS:SG	4:f1:24:ARG:N	2.75	0.58
5:n2:240:LEU:HD12	6:p2:137:ARG:H	1.67	0.58
7:m3:79:LYS:HD2	7:m3:155:THR:HA	1.84	0.58
7:F3:133:GLY:H	7:F3:152:VAL:HG23	1.69	0.58
6:p5:36:LYS:O	6:p5:127:GLN:N	2.35	0.58
1:a6:23:CYS:SG	4:f6:24:ARG:N	2.75	0.58
5:o6:217:GLN:NE2	5:r6:280:ASN:HB2	2.19	0.58
8:AB:231:ALA:HA	8:AB:296:ILE:HG22	1.85	0.58
8:AD:182:LYS:HA	8:AD:188:PRO:HA	1.84	0.58
8:AJ:93:GLN:NE2	8:AJ:136:ASP:O	2.22	0.58
8:AK:400:GLU:HA	8:AK:403:GLU:HG3	1.85	0.58
9:AX:31:ARG:HH12	9:AX:51:PRO:HD2	1.68	0.58
2:a:186:VAL:HG21	2:a:191:GLN:HG3	1.84	0.58
5:k1:223:CYS:SG	5:k1:224:ASP:N	2.77	0.58
7:N3:38:MET:HG2	7:N3:185:LYS:HG2	1.86	0.58
7:a3:133:GLY:H	7:a3:152:VAL:HG23	1.68	0.58
7:b3:156:THR:HG23	7:b3:157:SER:H	1.68	0.58
7:g3:38:MET:HG2	7:g3:185:LYS:HG2	1.86	0.58
7:l3:118:GLY:HA3	7:l3:122:ALA:HB3	1.86	0.58
7:93:133:GLY:H	7:93:152:VAL:HG23	1.68	0.58
7:B3:30:ARG:HD2	7:B3:230:GLY:H	1.68	0.58
5:r6:348:VAL:HG11	5:r6:389:PRO:HD2	1.85	0.58
5:h7:221:TYR:CE1	5:k7:247:TYR:HB2	2.38	0.58
8:AG:128:ALA:HB1	8:AG:145:LEU:HD12	1.84	0.58
10:AZ:5:LYS:O	10:AV:113:ARG:NH2	2.36	0.58
5:k1:432:TYR:HD2	5:k1:442:LYS:HD2	1.69	0.58
6:q1:30:GLN:HB2	6:q1:133:LYS:HG2	1.85	0.58
5:r2:200:ILE:HG13	5:r2:422:VAL:HG12	1.86	0.58
7:O3:30:ARG:HD2	7:O3:230:GLY:H	1.68	0.58
7:s3:156:THR:HG23	7:s3:157:SER:H	1.68	0.58
7:v3:38:MET:HE3	7:v3:185:LYS:HE2	1.85	0.58
7:E3:161:GLN:NE2	7:E3:162:PRO:O	2.36	0.58
5:n5:218:LEU:HD12	5:n5:219:GLY:H	1.68	0.58
5:o5:375:LEU:HD23	5:o5:377:ARG:H	1.67	0.58
5:k6:427:MET:O	8:AJ:168:GLU:HB2	2.03	0.58
6:s7:10:PRO:HD2	6:s7:132:MET:HB2	1.84	0.58
6:s7:89:LEU:HD12	6:s7:90:PRO:HD2	1.84	0.58
8:AI:140:ASN:HD21	8:AJ:16:PRO:HA	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:166:GLY:HA3	8:AL:28:ARG:HH22	1.69	0.58
8:AK:317:ILE:H	8:AK:317:ILE:HD12	1.68	0.58
10:AV:108:GLU:OE1	10:AV:118:ASN:ND2	2.36	0.58
10:Aa:7:ASN:HB2	10:AY:113:ARG:HD2	1.85	0.58
2:k:74:ILE:HG13	2:k:75:ALA:H	1.66	0.58
7:N3:133:GLY:H	7:N3:152:VAL:HG23	1.68	0.58
7:w3:210:ASP:OD2	7:w3:214:ASN:ND2	2.35	0.58
7:E3:30:ARG:HD2	7:E3:230:GLY:H	1.68	0.58
5:o5:254:ASN:HB3	5:o5:257:ASN:HB2	1.85	0.58
5:o6:244:THR:HG21	5:o6:424:LYS:HD2	1.85	0.58
8:AI:204:ALA:HB3	8:AI:208:ASP:HB3	1.84	0.58
1:e2:21:PRO:HB3	5:r2:351:TYR:CZ	2.39	0.58
6:q2:37:THR:HA	6:q2:126:VAL:HA	1.86	0.58
7:b3:88:LEU:N	7:b3:121:GLY:O	2.30	0.58
7:k3:133:GLY:H	7:k3:152:VAL:HG23	1.69	0.58
7:43:79:LYS:HE3	7:43:155:THR:HA	1.85	0.58
7:D3:217:VAL:H	7:E3:34:VAL:HB	1.68	0.58
1:a5:9:LEU:HD23	6:l5:97:SER:HA	1.86	0.58
6:t5:43:ALA:H	6:t5:122:ASN:HD21	1.51	0.58
5:h6:193:LEU:HD12	5:h6:282:ASN:HD21	1.69	0.58
6:q7:30:GLN:HB2	6:q7:133:LYS:HG2	1.85	0.58
8:AA:29:ARG:HH21	8:AA:29:ARG:HA	1.68	0.58
8:AI:183:ASN:N	8:AI:187:ARG:O	2.30	0.58
8:AK:297:HIS:HE1	8:AK:299:LYS:HB2	1.69	0.58
10:Aa:5:LYS:O	10:AY:113:ARG:NH2	2.36	0.58
1:g:8:PRO:HA	6:m5:97:SER:HB2	1.86	0.58
2:q:65:GLY:HA3	2:q:103:PHE:HB3	1.86	0.58
5:n2:336:GLU:OE1	5:n2:336:GLU:N	2.33	0.58
6:q2:52:HIS:HB2	6:q2:110:TRP:HB2	1.86	0.58
7:J3:168:VAL:HG12	7:J3:190:VAL:HG12	1.86	0.58
7:V3:74:ALA:HB2	7:V3:91:LEU:HD11	1.85	0.58
7:a3:59:PHE:HE2	7:a3:175:ARG:HE	1.50	0.58
7:A3:217:VAL:H	7:B3:34:VAL:HB	1.69	0.58
7:E3:133:GLY:H	7:E3:152:VAL:HG23	1.69	0.58
6:u5:62:PRO:HG3	6:u5:110:TRP:CD2	2.38	0.58
1:d6:24:PHE:CZ	1:d6:26:CYS:HB3	2.39	0.58
5:r6:240:LEU:HD22	6:t6:136:THR:HA	1.85	0.58
6:s6:47:PHE:HB3	6:s6:113:ILE:HD11	1.84	0.58
6:v6:48:ASN:HB3	6:v6:67:ARG:HH12	1.68	0.58
5:r7:389:PRO:HG2	5:r7:409:VAL:HG12	1.85	0.58
8:AF:27:ILE:HD12	8:AF:27:ILE:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:28:ARG:HG3	8:AG:29:ARG:N	2.16	0.58
8:AL:150:LEU:HD21	8:AL:163:PHE:HB3	1.84	0.58
3:AM:64:ASP:HB3	3:AM:109:LYS:HD2	1.86	0.58
10:AU:113:ARG:NH2	10:Ab:5:LYS:O	2.37	0.58
9:AS:135:ASP:HB3	9:AT:59:GLN:HE22	1.68	0.58
2:l:74:ILE:HG13	2:l:75:ALA:H	1.69	0.58
5:g1:182:LEU:HD13	5:r1:210:MET:H	1.69	0.58
5:g2:228:ASP:OD2	7:Q3:51:HIS:NE2	2.36	0.58
7:t3:210:ASP:OD2	7:t3:214:ASN:ND2	2.35	0.58
6:t5:9:PHE:CE1	6:t5:133:LYS:HG2	2.39	0.58
5:n6:240:LEU:HD12	6:p6:137:ARG:H	1.69	0.58
5:o6:221:TYR:HD1	5:r6:293:GLU:HG2	1.69	0.58
6:l7:67:ARG:NH1	6:l7:85:ALA:O	2.25	0.58
5:n7:240:LEU:HD12	6:p7:137:ARG:H	1.69	0.58
5:o7:343:VAL:HG22	5:o7:386:LEU:HD11	1.86	0.58
8:AI:77:LYS:HG2	8:AI:81:ASN:HD22	1.69	0.58
1:e:4:LEU:O	1:e:5:ASN:OD1	2.20	0.57
1:f:17:ARG:HB2	5:h2:394:THR:HG23	1.85	0.57
2:a:193:GLU:OE1	2:a:196:ARG:NH2	2.37	0.57
6:u2:6:GLY:HA3	6:v2:100:ALA:HB1	1.85	0.57
7:S3:167:PRO:HA	7:S3:191:SER:HB3	1.85	0.57
7:m3:59:PHE:HE2	7:m3:175:ARG:HE	1.50	0.57
5:g6:344:MET:HE3	5:g6:348:VAL:HB	1.85	0.57
6:q6:37:THR:HA	6:q6:126:VAL:HA	1.86	0.57
6:u7:30:GLN:HG3	6:v7:2:ASN:HA	1.85	0.57
8:AG:352:THR:HA	8:AG:355:GLU:HG2	1.85	0.57
8:AL:127:MET:HE1	8:AL:354:LEU:HB2	1.86	0.57
1:c:17:ARG:HB2	5:h5:394:THR:HG23	1.86	0.57
2:h:134:ARG:HG2	2:h:135:ARG:H	1.69	0.57
2:j:145:ILE:O	2:j:149:LEU:HG	2.04	0.57
5:k1:333:PHE:O	5:n1:346:GLN:NE2	2.29	0.57
5:n1:180:LEU:HD12	5:n1:182:LEU:H	1.69	0.57
6:s1:30:GLN:HB2	6:s1:133:LYS:HB3	1.86	0.57
6:t1:23:VAL:HG11	6:t1:130:VAL:HG11	1.85	0.57
6:l2:58:ASP:HB3	6:l2:61:VAL:HG22	1.84	0.57
7:m3:110:PRO:HG3	7:m3:115:VAL:HG23	1.85	0.57
7:n3:77:ARG:NH1	7:n3:159:LEU:O	2.37	0.57
7:z3:77:ARG:NH1	7:z3:159:LEU:O	2.38	0.57
7:23:161:GLN:HE22	7:23:164:PHE:HE2	1.52	0.57
7:33:161:GLN:NE2	7:33:162:PRO:O	2.37	0.57
7:B3:9:ARG:NH2	7:C3:33:GLU:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:79:LYS:HE3	7:C3:155:THR:HA	1.85	0.57
7:E3:77:ARG:NH2	7:E3:158:GLU:OE2	2.37	0.57
7:F3:79:LYS:HE3	7:F3:155:THR:HA	1.85	0.57
5:o5:281:ARG:HH21	5:o5:449:ASP:HB2	1.68	0.57
5:h7:218:LEU:HB3	5:k7:445:PHE:HZ	1.69	0.57
6:u7:54:PRO:HD3	6:u7:109:GLN:HG3	1.85	0.57
6:u7:62:PRO:HG3	6:u7:110:TRP:CD2	2.39	0.57
8:AF:336:GLU:HA	8:AF:339:LYS:HE2	1.86	0.57
8:AK:127:MET:HB2	8:AK:196:ILE:HB	1.86	0.57
2:q:151:LEU:HD13	2:q:185:ALA:HB2	1.85	0.57
5:g2:340:ALA:O	5:g2:379:ARG:NH1	2.37	0.57
7:J3:79:LYS:HE3	7:J3:155:THR:HA	1.86	0.57
7:O3:74:ALA:HB2	7:O3:91:LEU:HD11	1.85	0.57
7:V3:8:PRO:HG2	7:V3:10:ASN:ND2	2.17	0.57
7:03:79:LYS:HE3	7:03:155:THR:HA	1.85	0.57
7:B3:2:TYR:HB2	7:B3:37:VAL:HG22	1.86	0.57
5:r5:247:TYR:CD2	5:r5:277:HIS:HD2	2.22	0.57
6:v6:36:LYS:O	6:v6:127:GLN:N	2.31	0.57
6:q7:91:GLU:HG3	6:q7:92:THR:HG23	1.86	0.57
8:AA:204:ALA:HB3	8:AA:208:ASP:HB3	1.85	0.57
8:AD:235:ALA:O	8:AE:230:ARG:NH1	2.37	0.57
8:AG:26:PHE:O	8:AG:31:PHE:N	2.35	0.57
8:AH:204:ALA:HB3	8:AH:208:ASP:HB3	1.86	0.57
8:AL:214:LEU:HA	8:AL:217:ILE:HG12	1.86	0.57
3:AN:64:ASP:HB3	3:AN:109:LYS:HE3	1.85	0.57
10:Aa:81:GLY:HA2	10:Aa:104:VAL:HB	1.86	0.57
3:AO:83:GLU:OE2	3:AO:91:ARG:NH1	2.35	0.57
2:a:49:THR:C	2:a:135:ARG:HH21	2.12	0.57
2:n:77:ARG:HD3	2:n:131:VAL:HG11	1.86	0.57
5:g1:334:PRO:HA	5:h1:346:GLN:HE22	1.70	0.57
6:m1:52:HIS:HB2	6:m1:110:TRP:HB2	1.85	0.57
7:T3:4:PHE:HB2	7:T3:39:VAL:HG12	1.86	0.57
7:h3:104:ILE:HG12	7:h3:117:LEU:HD12	1.86	0.57
7:j3:205:ARG:HB3	7:k3:107:LEU:HD12	1.86	0.57
7:03:210:ASP:OD1	7:03:214:ASN:N	2.28	0.57
6:t7:33:PHE:HD1	6:t7:130:VAL:HG12	1.70	0.57
8:AA:26:PHE:O	8:AA:31:PHE:N	2.37	0.57
9:AR:55:VAL:HG22	9:AR:82:VAL:HG22	1.86	0.57
10:AY:50:LEU:HD11	10:AY:56:GLN:HG2	1.87	0.57
1:d2:2:VAL:HG21	6:q2:87:VAL:HG23	1.87	0.57
5:k2:252:CYS:HB3	5:k2:442:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:u2:15:TRP:HB3	6:u2:128:ILE:HB	1.85	0.57
7:q3:210:ASP:OD1	7:q3:214:ASN:N	2.27	0.57
7:q3:210:ASP:OD2	7:q3:214:ASN:ND2	2.36	0.57
7:33:74:ALA:HB2	7:33:91:LEU:HD11	1.87	0.57
6:u5:6:GLY:HA3	6:v5:100:ALA:HB1	1.87	0.57
1:e6:21:PRO:HB3	5:r6:351:TYR:CZ	2.39	0.57
5:g6:193:LEU:HD11	5:g6:383:SER:HB2	1.86	0.57
5:g7:366:ASP:OD1	5:h7:361:ARG:NH2	2.34	0.57
6:t7:35:PHE:HB2	6:t7:99:CYS:SG	2.44	0.57
8:AA:230:ARG:NH1	8:AL:235:ALA:O	2.37	0.57
8:AA:297:HIS:HE1	8:AA:299:LYS:HB2	1.70	0.57
8:AC:156:ARG:HG3	8:AC:157:TYR:HD1	1.68	0.57
8:AG:100:ILE:HD11	8:AG:141:ALA:HA	1.85	0.57
8:AH:400:GLU:HA	8:AH:403:GLU:HG3	1.86	0.57
8:AH:402:ARG:HE	8:AH:407:TRP:HB3	1.68	0.57
2:b:186:VAL:HG21	2:b:191:GLN:HG3	1.85	0.57
2:n:135:ARG:HB3	2:n:135:ARG:CZ	2.35	0.57
6:v1:34:THR:OG1	6:v1:129:THR:OG1	2.23	0.57
6:v1:51:TYR:HD1	6:v1:68:VAL:HG22	1.70	0.57
5:h2:229:ALA:HB3	5:k2:250:VAL:HG13	1.84	0.57
7:U3:75:PHE:HZ	7:U3:77:ARG:HE	1.51	0.57
7:g3:79:LYS:HD2	7:g3:155:THR:HA	1.85	0.57
5:k5:389:PRO:HG3	5:k5:409:VAL:HG12	1.86	0.57
6:s7:52:HIS:ND1	6:s7:64:PRO:O	2.29	0.57
6:s7:91:GLU:HG3	6:s7:92:THR:HG23	1.87	0.57
8:AB:282:THR:HG23	8:AC:249:ARG:HD3	1.87	0.57
8:AC:37:LYS:HE3	8:AC:152:GLN:HE22	1.69	0.57
8:AE:316:PRO:HB2	8:AE:319:LEU:HD23	1.86	0.57
8:AE:381:LYS:HD3	8:AF:386:ILE:HD11	1.87	0.57
8:AL:402:ARG:HH21	8:AL:407:TRP:HB3	1.69	0.57
9:AR:28:ILE:HG13	9:AR:51:PRO:O	2.04	0.57
1:f:2:VAL:HG21	6:m7:87:VAL:HG12	1.87	0.57
2:j:148:ILE:O	2:j:152:ILE:HG12	2.05	0.57
5:g1:228:ASP:OD2	7:N3:51:HIS:NE2	2.38	0.57
7:K3:79:LYS:HE3	7:K3:155:THR:HA	1.86	0.57
7:Q3:38:MET:HG2	7:Q3:185:LYS:HG2	1.85	0.57
7:p3:38:MET:HE3	7:p3:185:LYS:HE2	1.85	0.57
7:G3:168:VAL:HG11	7:G3:224:ILE:HD12	1.86	0.57
6:q5:94:THR:O	6:q5:97:SER:OG	2.22	0.57
6:s5:52:HIS:ND1	6:s5:64:PRO:O	2.32	0.57
6:u5:127:GLN:HG2	6:v5:13:ILE:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t6:26:ASP:OD2	6:t6:109:GLN:NE2	2.33	0.57
5:n7:337:TYR:CE1	5:o7:188:ILE:HD13	2.40	0.57
6:s7:11:SER:HB3	6:t7:129:THR:HG21	1.85	0.57
1:d:4:LEU:O	1:d:5:ASN:OD1	2.21	0.57
2:n:95:ARG:H	2:n:101:LEU:HD21	1.70	0.57
2:p:69:LEU:O	2:p:99:ASN:ND2	2.37	0.57
2:p:193:GLU:O	2:p:196:ARG:NH1	2.37	0.57
2:q:5:THR:HG23	2:q:6:LEU:HD12	1.87	0.57
2:k:139:SER:C	2:k:141:PRO:HD3	2.30	0.57
6:l1:30:GLN:HB2	6:l1:133:LYS:HB3	1.87	0.57
5:o1:229:ALA:HB3	5:r1:250:VAL:HG23	1.87	0.57
6:q1:37:THR:HA	6:q1:126:VAL:HA	1.87	0.57
7:M3:29:ALA:HB1	7:M3:190:VAL:HG21	1.85	0.57
7:O3:167:PRO:HA	7:O3:191:SER:HB3	1.87	0.57
7:X3:156:THR:HG23	7:X3:157:SER:H	1.70	0.57
7:E3:210:ASP:HB3	7:E3:216:PHE:HE2	1.69	0.57
5:n5:226:LYS:HD2	6:u5:71:VAL:HG13	1.86	0.57
1:e6:12:ALA:HB3	5:o6:302:CYS:HA	1.86	0.57
5:o6:209:TYR:HB3	5:r6:180:LEU:HD12	1.87	0.57
8:AK:381:LYS:NZ	8:AL:382:SER:HB2	2.19	0.57
8:AL:248:SER:H	8:AL:251:LEU:HD12	1.68	0.57
2:b:112:GLN:OE1	2:b:114:TRP:NE1	2.25	0.57
2:p:154:TRP:O	2:p:158:ASN:ND2	2.36	0.57
1:e1:21:PRO:O	5:o1:324:GLN:NE2	2.33	0.57
5:n2:287:ILE:HG22	5:n2:298:LEU:HD22	1.87	0.57
7:g3:132:THR:HA	7:g3:152:VAL:HG23	1.85	0.57
7:i3:190:VAL:HG11	7:i3:226:ILE:HD13	1.86	0.57
7:n3:210:ASP:OD2	7:n3:214:ASN:ND2	2.33	0.57
5:r5:345:HIS:CG	5:r5:388:ASP:HB3	2.40	0.57
5:h7:203:SER:OG	5:h7:204:ARG:N	2.38	0.57
8:AF:278:PHE:HB2	8:AG:260:LYS:HD3	1.86	0.57
2:o:89:PRO:O	7:W3:49:ARG:NH1	2.30	0.57
6:s1:62:PRO:HA	6:s1:110:TRP:HZ2	1.69	0.57
4:f2:24:ARG:HD3	5:k2:309:LEU:HD23	1.86	0.57
5:k2:234:PRO:HB3	5:n2:269:MET:HE1	1.87	0.57
5:o2:241:GLU:HB2	6:u2:135:ALA:HB2	1.87	0.57
5:r2:240:LEU:HD22	6:t2:136:THR:HA	1.87	0.57
7:K3:133:GLY:H	7:K3:152:VAL:HG23	1.69	0.57
7:R3:100:VAL:HG23	7:R3:141:ILE:HG23	1.87	0.57
7:h3:210:ASP:OD1	7:h3:214:ASN:N	2.37	0.57
7:s3:161:GLN:HE22	7:s3:164:PHE:HE2	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g5:243:LYS:NZ	6:l6:106:MET:SD	2.77	0.57
5:o5:247:TYR:O	5:o5:447:ALA:N	2.34	0.57
6:m7:67:ARG:HD3	6:m7:84:LEU:HD13	1.87	0.57
8:AG:400:GLU:HA	8:AG:403:GLU:HG3	1.86	0.57
3:AM:9:ARG:HH21	3:AM:34:GLN:HG2	1.70	0.57
9:AQ:49:LYS:HG2	9:AQ:51:PRO:HD2	1.86	0.57
2:b:69:LEU:HD22	2:b:73:PRO:HG3	1.87	0.56
2:o:193:GLU:O	2:o:196:ARG:NH1	2.37	0.56
6:m1:37:THR:HG23	6:m1:95:PRO:HA	1.85	0.56
5:r1:267:SER:HA	5:r1:270:ILE:HD12	1.85	0.56
7:j3:136:ARG:HG2	7:j3:149:VAL:HG13	1.87	0.56
7:o3:59:PHE:HE2	7:o3:175:ARG:HE	1.52	0.56
7:r3:133:GLY:H	7:r3:152:VAL:HG23	1.70	0.56
5:r5:387:PRO:HD2	5:r5:408:PHE:HD1	1.70	0.56
8:AH:347:GLU:HA	8:AH:351:LEU:HD12	1.87	0.56
2:a:37:PHE:O	2:a:41:GLU:HB2	2.05	0.56
5:k2:224:ASP:OD1	5:k2:225:ALA:N	2.38	0.56
6:q2:27:GLY:O	6:q2:136:THR:OG1	2.22	0.56
5:r2:390:THR:HA	5:r2:395:LYS:HB3	1.86	0.56
7:Y3:210:ASP:OD1	7:Y3:214:ASN:N	2.38	0.56
7:y3:21:SER:OG	7:y3:22:CYS:N	2.38	0.56
5:h6:334:PRO:HA	5:k6:346:GLN:HE22	1.70	0.56
6:s7:27:GLY:O	6:s7:136:THR:OG1	2.23	0.56
9:AT:28:ILE:HA	9:AT:51:PRO:HB2	1.87	0.56
3:AO:8:HIS:CD2	3:AO:39:ILE:HG12	2.40	0.56
2:h:41:GLU:HG2	2:h:48:PHE:HB2	1.86	0.56
2:i:154:TRP:O	2:i:158:ASN:HB2	2.04	0.56
2:k:138:ASN:O	2:k:139:SER:HB2	2.05	0.56
5:h2:202:VAL:HG22	5:h2:203:SER:H	1.70	0.56
5:h2:255:ARG:CZ	8:AD:29:ARG:HE	2.18	0.56
7:Z3:118:GLY:HA3	7:Z3:122:ALA:HB3	1.87	0.56
7:d3:210:ASP:HB3	7:d3:216:PHE:HE2	1.70	0.56
7:o3:133:GLY:H	7:o3:152:VAL:HG23	1.71	0.56
7:63:74:ALA:HB2	7:63:91:LEU:HD11	1.87	0.56
7:73:184:LEU:HD12	7:73:206:GLN:HE21	1.70	0.56
7:83:156:THR:HG23	7:83:157:SER:H	1.70	0.56
7:83:167:PRO:HA	7:83:191:SER:HB3	1.88	0.56
7:B3:9:ARG:HH22	7:C3:230:GLY:HA2	1.69	0.56
5:n5:313:VAL:HG22	5:n5:314:ASN:H	1.69	0.56
6:q5:27:GLY:O	6:q5:136:THR:OG1	2.22	0.56
5:o6:291:VAL:O	5:o6:293:GLU:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a7:27:ARG:HD3	5:n7:311:VAL:HG22	1.87	0.56
5:k7:223:CYS:SG	5:k7:224:ASP:N	2.78	0.56
5:r7:281:ARG:O	5:r7:285:LEU:HG	2.04	0.56
6:u7:58:ASP:HB3	6:u7:61:VAL:HG12	1.86	0.56
8:AD:140:ASN:HD21	8:AE:16:PRO:C	2.13	0.56
8:AE:297:HIS:HE1	8:AE:299:LYS:HB2	1.70	0.56
8:AH:379:LEU:HD12	8:AH:382:SER:HB3	1.88	0.56
8:AI:336:GLU:HA	8:AI:339:LYS:HE2	1.85	0.56
8:AL:242:LYS:HE3	8:AL:291:ASN:HB2	1.87	0.56
10:AU:113:ARG:HD2	10:Ab:7:ASN:HB2	1.87	0.56
3:AP:32:VAL:HG12	3:AP:33:ILE:HG13	1.86	0.56
9:AS:90:ARG:NH1	9:AS:98:GLU:OE2	2.39	0.56
2:i:74:ILE:HD12	2:i:74:ILE:H	1.70	0.56
2:k:145:ILE:O	2:k:149:LEU:HG	2.05	0.56
5:n1:308:THR:HG21	5:n1:321:PHE:HD1	1.70	0.56
5:o1:260:GLU:CD	5:o1:261:ALA:H	2.13	0.56
6:p1:15:TRP:HB3	6:p1:128:ILE:HB	1.88	0.56
5:n2:442:LYS:NZ	5:n2:443:TYR:O	2.39	0.56
7:W3:75:PHE:HE1	7:W3:162:PRO:HD2	1.70	0.56
7:Y3:88:LEU:N	7:Y3:121:GLY:O	2.31	0.56
7:b3:75:PHE:HD1	7:b3:149:VAL:HG13	1.71	0.56
7:h3:88:LEU:N	7:h3:121:GLY:O	2.30	0.56
7:i3:210:ASP:HB3	7:i3:216:PHE:HE2	1.69	0.56
7:s3:28:SER:OG	7:s3:230:GLY:OXT	2.21	0.56
7:E3:9:ARG:NH2	7:F3:33:GLU:OE1	2.38	0.56
1:a7:9:LEU:HD13	6:l7:97:SER:HA	1.88	0.56
8:AB:119:LEU:HD21	8:AC:201:ILE:HG12	1.86	0.56
8:AC:130:LYS:HZ3	8:AC:174:ILE:HD12	1.70	0.56
8:AE:201:ILE:H	8:AE:201:ILE:HD12	1.70	0.56
8:AE:338:ARG:NE	8:AF:344:ASP:OD1	2.38	0.56
3:AP:63:HIS:NE2	3:AN:103:GLU:OE2	2.39	0.56
2:i:58:ILE:HG23	2:i:126:LEU:HG	1.86	0.56
3:I:77:VAL:O	3:I:94:LYS:NZ	2.36	0.56
5:g1:340:ALA:O	5:g1:379:ARG:NH1	2.38	0.56
6:p2:42:THR:H	6:p2:122:ASN:HD21	1.53	0.56
7:Q3:133:GLY:H	7:Q3:152:VAL:HG23	1.71	0.56
7:33:133:GLY:H	7:33:152:VAL:HG23	1.70	0.56
5:o5:254:ASN:OD1	5:o5:255:ARG:N	2.39	0.56
5:o5:344:MET:HE3	5:o5:349:PHE:HB2	1.88	0.56
5:g6:334:PRO:HA	5:h6:346:GLN:HE22	1.69	0.56
8:AF:127:MET:HE1	8:AF:354:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:73:TRP:HB3	8:AI:101:LEU:HD13	1.87	0.56
8:AJ:252:ASP:O	8:AJ:253:ASP:C	2.48	0.56
3:AM:32:VAL:HG23	3:AM:33:ILE:HG13	1.86	0.56
9:AQ:130:GLU:HG2	9:AR:67:THR:HG22	1.88	0.56
2:b:17:LYS:O	3:AP:6:ARG:NH2	2.38	0.56
2:k:7:LEU:HD13	2:k:145:ILE:HD11	1.86	0.56
5:g1:220:GLU:HA	5:h1:247:TYR:HE1	1.71	0.56
5:k2:190:CYS:HA	5:k2:384:ASN:HD21	1.71	0.56
7:i3:118:GLY:HA3	7:i3:122:ALA:HB3	1.88	0.56
7:63:9:ARG:HH22	7:73:230:GLY:HA2	1.69	0.56
4:f7:24:ARG:NH1	5:k7:325:ASP:OD2	2.34	0.56
6:l7:30:GLN:HB2	6:l7:133:LYS:HB3	1.86	0.56
5:r7:291:VAL:HG22	5:r7:292:ASN:HD22	1.70	0.56
8:AE:305:GLN:O	8:AE:309:ILE:HG12	2.06	0.56
3:AP:77:VAL:O	3:AP:94:LYS:NZ	2.35	0.56
2:a:199:ARG:HG2	8:AE:255:GLN:HE22	1.71	0.56
2:b:52:LYS:O	2:b:132:THR:N	2.26	0.56
2:p:173:ASN:HD21	2:p:177:LEU:HB2	1.69	0.56
5:k1:425:ARG:NH1	5:k1:448:GLU:OE1	2.38	0.56
5:k2:432:TYR:HD2	5:k2:442:LYS:HD2	1.71	0.56
7:P3:133:GLY:H	7:P3:152:VAL:HG23	1.71	0.56
7:S3:79:LYS:HE3	7:S3:155:THR:HA	1.86	0.56
7:U3:209:ILE:HD11	7:U3:213:GLY:HA2	1.88	0.56
7:j3:207:VAL:HG12	7:j3:217:VAL:HG22	1.87	0.56
7:p3:61:ILE:HD11	7:p3:200:TYR:HB3	1.87	0.56
7:G3:203:THR:HG22	7:G3:221:CYS:HB3	1.88	0.56
6:p5:30:GLN:HG2	6:q5:2:ASN:HA	1.88	0.56
5:g6:336:GLU:OE1	5:h6:384:ASN:ND2	2.31	0.56
6:p6:15:TRP:HB3	6:p6:128:ILE:HB	1.88	0.56
6:t6:23:VAL:HG11	6:t6:130:VAL:HG11	1.88	0.56
8:AA:73:TRP:HB3	8:AA:101:LEU:HD13	1.87	0.56
8:AC:347:GLU:HB3	8:AC:348:PRO:HD3	1.87	0.56
8:AF:117:ALA:HB1	8:AF:127:MET:HE2	1.88	0.56
8:AJ:227:LEU:HD21	8:AJ:298:SER:HB2	1.86	0.56
8:AJ:243:TRP:NE1	8:AK:291:ASN:OD1	2.34	0.56
8:AL:259:VAL:O	8:AL:263:ILE:HG12	2.05	0.56
10:Ab:33:PRO:HB3	10:Ab:69:VAL:HG23	1.88	0.56
1:e:24:PHE:HE1	5:h1:322:LEU:HB2	1.70	0.56
2:n:85:GLY:N	2:n:123:GLU:OE1	2.39	0.56
2:o:50:PRO:HD3	2:o:135:ARG:NH1	2.21	0.56
5:k1:283:GLN:HA	5:k1:286:MET:HE2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r1:254:ASN:HB3	5:r1:257:ASN:HB2	1.86	0.56
5:n2:431:GLN:HE22	5:n2:433:GLU:HG2	1.70	0.56
7:K3:38:MET:HG2	7:K3:185:LYS:HG2	1.87	0.56
7:U3:61:ILE:HD11	7:U3:200:TYR:HB3	1.86	0.56
7:a3:4:PHE:HB2	7:a3:39:VAL:HG12	1.88	0.56
7:l3:167:PRO:HA	7:l3:191:SER:HB3	1.87	0.56
7:q3:30:ARG:HB2	7:q3:230:GLY:H	1.71	0.56
7:G3:167:PRO:HA	7:G3:191:SER:HB3	1.87	0.56
6:l5:100:ALA:HB1	6:m5:6:GLY:HA3	1.87	0.56
6:q5:23:VAL:HG11	6:q5:130:VAL:HG11	1.87	0.56
8:AA:121:TRP:CZ2	8:AA:198:LYS:HD3	2.41	0.56
8:AL:41:SER:O	8:AL:45:VAL:HG23	2.06	0.56
2:b:199:ARG:HG2	8:AI:255:GLN:HE22	1.71	0.56
2:o:46:LEU:HB3	2:o:134:ARG:HE	1.71	0.56
5:g1:220:GLU:HB2	5:h1:280:ASN:HD21	1.71	0.56
5:r2:208:THR:OG1	5:r2:240:LEU:O	2.23	0.56
7:T3:190:VAL:HG21	7:T3:226:ILE:HD13	1.88	0.56
7:X3:28:SER:OG	7:X3:230:GLY:OXT	2.22	0.56
7:j3:133:GLY:H	7:j3:152:VAL:HG23	1.71	0.56
7:p3:171:PRO:HD2	7:p3:187:VAL:HG23	1.88	0.56
7:s3:88:LEU:N	7:s3:121:GLY:O	2.38	0.56
6:t6:43:ALA:H	6:t6:122:ASN:HD21	1.53	0.56
6:m7:52:HIS:HB2	6:m7:110:TRP:HB2	1.88	0.56
5:o7:281:ARG:HH21	5:o7:449:ASP:HB2	1.71	0.56
6:v7:43:ALA:HA	6:v7:91:GLU:HG2	1.88	0.56
8:AD:240:ASN:ND2	8:AE:234:SER:OG	2.39	0.56
2:a:74:ILE:HG13	2:a:75:ALA:N	2.21	0.56
3:I:77:VAL:HG13	3:AO:48:SER:H	1.71	0.56
6:l2:94:THR:O	6:l2:97:SER:OG	2.23	0.56
6:s2:47:PHE:CZ	6:s2:126:VAL:HG11	2.41	0.56
6:t2:43:ALA:H	6:t2:122:ASN:HD21	1.55	0.56
7:K3:83:VAL:HG13	7:K3:126:THR:HG22	1.88	0.56
7:Z3:209:ILE:HD11	7:Z3:213:GLY:HA2	1.88	0.56
7:f3:167:PRO:HA	7:f3:191:SER:HB3	1.87	0.56
7:j3:59:PHE:HE2	7:j3:175:ARG:HE	1.52	0.56
7:23:88:LEU:N	7:23:121:GLY:O	2.38	0.56
7:G3:53:LEU:HB2	7:G3:177:VAL:HG11	1.87	0.56
5:k5:223:CYS:SG	5:k5:224:ASP:N	2.79	0.56
5:r5:208:THR:OG1	5:r5:239:HIS:NE2	2.39	0.56
5:k6:333:PHE:O	5:n6:346:GLN:NE2	2.32	0.56
6:p6:36:LYS:O	6:p6:127:GLN:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p7:15:TRP:HB3	6:p7:128:ILE:HB	1.88	0.56
6:u7:14:ALA:HB2	6:u7:130:VAL:HG13	1.87	0.56
8:AD:402:ARG:HH21	8:AD:407:TRP:HB3	1.71	0.56
2:m:85:GLY:N	2:m:123:GLU:OE1	2.38	0.55
6:l1:12:PHE:O	6:l1:129:THR:OG1	2.23	0.55
5:r1:339:GLU:HB2	5:r1:379:ARG:NH2	2.20	0.55
6:t1:67:ARG:HE	6:t1:84:LEU:HD13	1.70	0.55
5:h2:408:PHE:HA	5:h2:463:GLN:OE1	2.07	0.55
6:m2:9:PHE:CE1	6:m2:133:LYS:HG3	2.41	0.55
6:q2:73:PHE:HB2	6:q2:76:THR:HG23	1.88	0.55
7:Q3:30:ARG:HD2	7:Q3:230:GLY:H	1.71	0.55
7:V3:11:GLY:HA3	7:W3:2:TYR:CE1	2.41	0.55
7:c3:156:THR:HG23	7:c3:157:SER:H	1.71	0.55
6:t6:67:ARG:HE	6:t6:84:LEU:HD13	1.71	0.55
6:q7:37:THR:HA	6:q7:126:VAL:HA	1.88	0.55
8:AC:55:PRO:HA	8:AD:216:ALA:HB1	1.87	0.55
8:AF:100:ILE:HD11	8:AF:141:ALA:HA	1.87	0.55
8:AF:182:LYS:HE3	8:AF:186:GLY:HA2	1.87	0.55
8:AG:39:VAL:HG23	8:AG:40:VAL:HG13	1.87	0.55
8:AH:239:PRO:O	8:AH:291:ASN:ND2	2.39	0.55
8:AL:132:SER:HA	8:AL:191:ASN:ND2	2.20	0.55
9:AX:50:LEU:HB2	9:AX:51:PRO:HD3	1.87	0.55
2:b:184:GLY:O	2:k:150:LYS:NZ	2.37	0.55
2:n:193:GLU:O	2:n:196:ARG:NH1	2.39	0.55
5:r2:208:THR:HA	5:r2:241:GLU:HA	1.89	0.55
7:Q3:79:LYS:HE3	7:Q3:155:THR:HA	1.87	0.55
7:c3:59:PHE:HE2	7:c3:175:ARG:HE	1.53	0.55
5:k5:194:LEU:O	5:k5:199:GLN:NE2	2.39	0.55
6:l5:106:MET:SD	5:g7:243:LYS:NZ	2.79	0.55
6:p6:52:HIS:ND1	6:p6:64:PRO:O	2.38	0.55
8:AD:59:ARG:HH21	8:AD:320:LEU:HD21	1.71	0.55
8:AG:204:ALA:HB3	8:AG:208:ASP:HB3	1.89	0.55
8:AH:140:ASN:HD22	8:AI:18:PRO:HG3	1.71	0.55
8:AJ:298:SER:HB3	8:AJ:301:PRO:HG2	1.87	0.55
3:AM:46:ARG:HE	3:AP:77:VAL:HG23	1.71	0.55
2:j:20:ASP:OD1	3:AN:87:LYS:HG3	2.06	0.55
7:U3:156:THR:HG23	7:U3:157:SER:H	1.71	0.55
7:a3:24:CYS:HB2	7:a3:223:ASP:OD2	2.06	0.55
7:e3:210:ASP:OD1	7:e3:214:ASN:N	2.38	0.55
7:g3:210:ASP:HB3	7:g3:216:PHE:HE2	1.72	0.55
7:k3:88:LEU:N	7:k3:121:GLY:O	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:167:PRO:HA	7:o3:191:SER:HB3	1.87	0.55
5:n7:437:SER:OG	5:n7:438:ALA:N	2.39	0.55
8:AA:80:GLN:HG3	8:AL:102:GLN:HG2	1.88	0.55
8:AG:297:HIS:CE1	8:AG:299:LYS:HB2	2.41	0.55
9:AQ:38:VAL:HG11	9:AQ:81:ILE:HD11	1.89	0.55
9:AT:31:ARG:NH1	9:AT:51:PRO:O	2.39	0.55
2:q:71:ALA:HB3	2:q:130:TYR:HE2	1.72	0.55
3:H:63:HIS:NE2	3:AO:103:GLU:OE2	2.39	0.55
6:q2:23:VAL:HG21	6:q2:130:VAL:HG11	1.89	0.55
6:v2:46:THR:HA	6:v2:88:THR:HA	1.88	0.55
7:p3:59:PHE:HE2	7:p3:175:ARG:HE	1.53	0.55
7:s3:153:ASP:HA	7:s3:159:LEU:HD23	1.86	0.55
7:23:77:ARG:NH1	7:23:159:LEU:O	2.39	0.55
7:43:51:HIS:CD2	7:43:211:CYS:HA	2.41	0.55
7:B3:74:ALA:HB2	7:B3:91:LEU:HD11	1.89	0.55
7:F3:136:ARG:HG2	7:F3:149:VAL:HG22	1.89	0.55
5:n5:431:GLN:HG2	5:n5:432:TYR:H	1.71	0.55
6:p5:127:GLN:NE2	6:q5:13:ILE:HB	2.21	0.55
6:u5:58:ASP:HB3	6:u5:61:VAL:HG12	1.87	0.55
5:r7:289:LYS:O	5:r7:293:GLU:HG3	2.07	0.55
8:AD:140:ASN:HD22	8:AE:18:PRO:HG3	1.71	0.55
8:AE:101:LEU:HD21	8:AE:369:VAL:HG12	1.88	0.55
10:AU:13:LEU:HD12	10:AU:27:PRO:HB2	1.87	0.55
1:d:4:LEU:HD12	6:m1:99:CYS:HB3	1.88	0.55
5:h1:365:GLY:O	5:h1:367:GLY:N	2.39	0.55
6:l2:2:ASN:HA	6:m2:30:GLN:HG2	1.88	0.55
5:n2:302:CYS:O	5:n2:456:CYS:HB2	2.06	0.55
7:93:51:HIS:CD2	7:93:211:CYS:HA	2.41	0.55
7:D3:132:THR:HA	7:D3:152:VAL:HG23	1.88	0.55
5:o5:343:VAL:HG22	5:o5:386:LEU:HD11	1.89	0.55
6:q5:73:PHE:HB2	6:q5:76:THR:HG23	1.88	0.55
5:h6:255:ARG:NH2	5:h6:437:SER:O	2.40	0.55
5:g7:422:VAL:HG23	5:g7:451:GLY:HA2	1.87	0.55
8:AE:30:PHE:CE1	8:AE:207:PHE:HB3	2.42	0.55
8:AI:245:VAL:HG12	8:AI:286:VAL:HG22	1.87	0.55
1:e:24:PHE:HD2	5:h1:357:ASP:HA	1.70	0.55
2:a:41:GLU:HG2	2:a:48:PHE:HB3	1.87	0.55
2:m:158:ASN:ND2	2:m:164:MET:SD	2.76	0.55
5:h1:352:LEU:HA	5:h1:355:MET:HE2	1.88	0.55
5:h1:361:ARG:HH21	5:h1:366:ASP:HB3	1.72	0.55
6:q1:91:GLU:HG3	6:q1:92:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r1:190:CYS:SG	5:r1:191:ALA:N	2.78	0.55
7:c3:209:ILE:HD11	7:c3:213:GLY:HA2	1.89	0.55
7:s3:154:PRO:HG2	7:s3:156:THR:HG22	1.88	0.55
7:y3:172:ALA:O	7:y3:175:ARG:NH1	2.38	0.55
7:03:118:GLY:N	7:03:122:ALA:O	2.31	0.55
5:g5:205:SER:OG	5:g5:424:LYS:NZ	2.39	0.55
6:l5:91:GLU:HG3	6:l5:92:THR:HG23	1.89	0.55
6:v5:67:ARG:HD3	6:v5:84:LEU:HB2	1.89	0.55
5:k6:207:PHE:HB2	5:n6:180:LEU:HD22	1.88	0.55
5:g7:334:PRO:HA	5:h7:346:GLN:HE22	1.71	0.55
5:h7:191:ALA:HB3	5:h7:383:SER:HA	1.89	0.55
5:o7:215:TYR:OH	5:r7:275:ARG:NE	2.33	0.55
5:r7:364:PHE:HB3	5:r7:371:PHE:CE1	2.42	0.55
8:AD:297:HIS:HE1	8:AD:299:LYS:HB2	1.70	0.55
8:AG:150:LEU:HD13	8:AG:165:TYR:CD2	2.42	0.55
8:AI:70:SER:HB3	8:AJ:348:PRO:HB3	1.89	0.55
10:AU:42:ASN:HD22	10:AZ:77:ALA:HB2	1.71	0.55
9:AS:31:ARG:NH1	9:AS:51:PRO:O	2.40	0.55
9:AS:111:ARG:HH12	9:AT:155:TRP:CD1	2.24	0.55
2:b:191:GLN:HA	2:b:194:TRP:HD1	1.71	0.55
2:j:135:ARG:NH2	7:K3:25:GLU:OE2	2.39	0.55
6:p1:41:LEU:HG	6:p1:122:ASN:HD21	1.72	0.55
1:e2:19:VAL:HG23	5:o2:309:LEU:HD11	1.88	0.55
6:l2:68:VAL:HG23	6:l2:107:ASN:HD21	1.70	0.55
5:r2:432:TYR:HB2	5:r2:444:GLN:HG3	1.87	0.55
7:Y3:104:ILE:HG12	7:Y3:117:LEU:HD12	1.87	0.55
7:k3:74:ALA:HB2	7:k3:91:LEU:HD11	1.89	0.55
7:q3:77:ARG:NH1	7:q3:159:LEU:O	2.39	0.55
7:s3:4:PHE:HB2	7:s3:39:VAL:HG12	1.88	0.55
7:t3:77:ARG:NH1	7:t3:159:LEU:O	2.39	0.55
7:v3:88:LEU:N	7:v3:121:GLY:O	2.39	0.55
6:p5:69:PRO:HD2	6:p5:107:ASN:HD21	1.72	0.55
6:m6:52:HIS:HB2	6:m6:110:TRP:HB2	1.88	0.55
5:r6:351:TYR:HE2	5:r6:396:GLY:HA3	1.72	0.55
6:t6:25:VAL:HG12	6:t6:110:TRP:HA	1.88	0.55
8:AB:49:GLN:HB3	8:AB:50:ARG:HH21	1.72	0.55
9:AQ:124:GLU:HG3	9:AQ:125:HIS:CD2	2.41	0.55
9:AW:90:ARG:NH1	9:AW:98:GLU:OE2	2.40	0.55
2:n:24:VAL:HB	2:n:28:LEU:HD11	1.89	0.55
4:f1:16:VAL:HG13	5:k1:396:GLY:H	1.70	0.55
5:k1:224:ASP:OD1	5:k1:225:ALA:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n1:313:VAL:HG22	5:n1:314:ASN:H	1.72	0.55
6:u1:13:ILE:HD13	6:v1:13:ILE:HD12	1.89	0.55
7:P3:27:ILE:HD13	7:P3:222:TYR:HB3	1.88	0.55
7:T3:79:LYS:HE3	7:T3:155:THR:HA	1.89	0.55
7:r3:59:PHE:HE2	7:r3:175:ARG:HE	1.55	0.55
7:s3:208:ALA:HB3	7:s3:216:PHE:HB2	1.89	0.55
7:y3:153:ASP:HA	7:y3:159:LEU:HD23	1.89	0.55
6:u5:100:ALA:HB1	6:v5:6:GLY:HA3	1.89	0.55
5:h6:328:ARG:NH2	5:k6:393:ASN:OD1	2.40	0.55
6:q6:30:GLN:HB2	6:q6:133:LYS:HG2	1.87	0.55
6:v7:82:ASP:OD1	6:v7:84:LEU:HD22	2.07	0.55
8:AF:248:SER:HB3	8:AF:283:ASP:HB2	1.87	0.55
8:AK:210:GLN:O	8:AK:215:GLN:NE2	2.40	0.55
3:AP:65:ILE:HB	3:AP:110:ILE:HB	1.88	0.55
2:m:86:LEU:HD21	2:m:89:PRO:HA	1.89	0.55
5:n1:192:SER:O	5:n1:381:ARG:NH2	2.40	0.55
5:r1:430:GLU:HG2	5:r1:444:GLN:HB2	1.89	0.55
7:i3:210:ASP:OD1	7:i3:214:ASN:N	2.39	0.55
7:13:59:PHE:HE2	7:13:175:ARG:HE	1.52	0.55
1:e5:21:PRO:HB3	5:r5:351:TYR:CZ	2.42	0.55
5:g5:463:GLN:HG2	5:g5:464:ILE:H	1.72	0.55
5:k6:213:ALA:HB3	5:k6:236:ASN:HB3	1.88	0.55
8:AA:235:ALA:O	8:AB:230:ARG:NH1	2.39	0.55
8:AE:26:PHE:O	8:AE:31:PHE:N	2.40	0.55
8:AG:69:GLN:HE22	8:AH:352:THR:HG23	1.72	0.55
1:d1:19:VAL:O	5:n1:328:ARG:NH1	2.40	0.55
5:n2:313:VAL:HG22	5:n2:314:ASN:H	1.72	0.55
7:N3:79:LYS:HE3	7:N3:155:THR:HA	1.88	0.55
7:X3:80:VAL:HG12	7:X3:155:THR:HG23	1.88	0.55
7:s3:59:PHE:HE2	7:s3:175:ARG:HE	1.54	0.55
5:k6:291:VAL:HG21	6:m6:107:ASN:HA	1.89	0.55
5:n6:313:VAL:HG22	5:n6:314:ASN:H	1.72	0.55
5:h7:192:SER:O	5:h7:381:ARG:NH1	2.39	0.55
8:AC:297:HIS:HE1	8:AC:299:LYS:HB2	1.71	0.55
8:AD:100:ILE:HD11	8:AD:142:ILE:HG13	1.89	0.55
10:AV:96:VAL:HG12	10:AV:127:LEU:CB	2.38	0.55
1:c:29:VAL:HG12	1:c:31:PRO:HD2	1.90	0.54
2:l:198:ARG:NH2	8:AB:249:ARG:HH22	2.05	0.54
2:i:148:ILE:O	2:i:152:ILE:HG12	2.07	0.54
3:H:12:VAL:HG22	3:H:33:ILE:HB	1.88	0.54
1:a2:21:PRO:O	5:k2:324:GLN:NE2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q3:14:LYS:HA	7:Q3:18:VAL:HG21	1.89	0.54
7:U3:57:THR:HG21	7:U3:184:LEU:HD11	1.89	0.54
7:b3:171:PRO:HD2	7:b3:187:VAL:HG23	1.90	0.54
7:k3:79:LYS:HD2	7:k3:153:ASP:HB2	1.88	0.54
7:m3:102:TYR:HD1	7:m3:141:ILE:HD12	1.73	0.54
7:p3:172:ALA:O	7:p3:175:ARG:NH1	2.41	0.54
7:23:171:PRO:HD2	7:23:187:VAL:HG13	1.87	0.54
7:C3:167:PRO:HA	7:C3:191:SER:HB3	1.89	0.54
5:o5:334:PRO:HD2	5:o5:460:ARG:HH12	1.72	0.54
5:g6:377:ARG:NH1	5:g6:377:ARG:HA	2.22	0.54
6:l7:58:ASP:HB3	6:l7:61:VAL:HG22	1.88	0.54
8:AB:100:ILE:HG13	8:AB:139:VAL:HG13	1.89	0.54
2:b:138:ASN:C	2:b:140:VAL:H	2.15	0.54
2:o:151:LEU:HD13	2:o:185:ALA:HB2	1.89	0.54
2:m:198:ARG:HH11	8:AC:253:ASP:H	1.54	0.54
6:l1:106:MET:SD	5:g6:243:LYS:NZ	2.80	0.54
6:p1:42:THR:H	6:p1:122:ASN:HD21	1.54	0.54
6:p1:67:ARG:HB3	6:p1:84:LEU:HD22	1.89	0.54
5:n2:366:ASP:OD1	5:o2:361:ARG:NH2	2.39	0.54
5:r2:243:LYS:HE3	6:t2:106:MET:HE1	1.89	0.54
7:s3:38:MET:HG2	7:s3:185:LYS:HG2	1.89	0.54
7:23:59:PHE:HE2	7:23:175:ARG:HE	1.53	0.54
7:A3:132:THR:HA	7:A3:152:VAL:HG23	1.88	0.54
1:e5:19:VAL:HG22	5:r5:394:THR:HA	1.89	0.54
5:h5:219:GLY:HA3	5:k5:247:TYR:CZ	2.41	0.54
6:q5:37:THR:HA	6:q5:126:VAL:HA	1.89	0.54
6:s6:127:GLN:HB3	6:t6:13:ILE:HD12	1.89	0.54
5:h7:425:ARG:NH2	5:h7:448:GLU:HB2	2.22	0.54
6:s7:46:THR:HA	6:s7:88:THR:HA	1.89	0.54
6:v7:67:ARG:HD3	6:v7:84:LEU:HB2	1.89	0.54
8:AB:26:PHE:O	8:AB:31:PHE:N	2.40	0.54
8:AD:348:PRO:HA	8:AD:352:THR:HG22	1.89	0.54
3:AO:20:ASP:OD2	3:AO:24:ARG:NH1	2.39	0.54
10:AY:40:TYR:N	10:Ab:110:SER:O	2.40	0.54
2:l:198:ARG:HH22	8:AB:249:ARG:NH2	2.06	0.54
3:I:8:HIS:CD2	3:I:39:ILE:HG12	2.43	0.54
5:r1:240:LEU:HD22	6:t1:136:THR:HA	1.89	0.54
5:r2:254:ASN:HB3	5:r2:257:ASN:HB2	1.89	0.54
6:t2:67:ARG:HE	6:t2:84:LEU:HD13	1.71	0.54
7:N3:205:ARG:HB2	7:O3:107:LEU:HD23	1.88	0.54
7:a3:51:HIS:HD2	7:a3:211:CYS:HA	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F3:118:GLY:N	7:F3:122:ALA:O	2.32	0.54
5:o5:359:ASN:HB2	5:r5:359:ASN:HD21	1.73	0.54
5:r5:285:LEU:HB2	5:r5:286:MET:HE2	1.89	0.54
5:h6:207:PHE:O	5:h6:241:GLU:HB2	2.07	0.54
5:n6:246:ASP:HA	5:n6:448:GLU:HA	1.90	0.54
6:u6:28:PHE:HD1	6:u6:134:GLY:HA3	1.72	0.54
5:h7:218:LEU:HB3	5:k7:445:PHE:CZ	2.41	0.54
5:k7:343:VAL:HG22	5:k7:386:LEU:HD11	1.90	0.54
6:l7:67:ARG:NH1	6:l7:84:LEU:HB3	2.23	0.54
8:AD:92:SER:HA	8:AD:95:LYS:HE2	1.89	0.54
8:AF:130:LYS:HE2	8:AF:191:ASN:HB3	1.88	0.54
8:AK:404:VAL:HG13	8:AK:405:THR:HG23	1.90	0.54
9:AR:139:GLU:HB3	9:AR:144:TYR:HE2	1.71	0.54
10:AV:81:GLY:HA2	10:AV:104:VAL:HB	1.88	0.54
9:AW:81:ILE:HG22	9:AW:148:ARG:HA	1.89	0.54
2:n:7:LEU:HD11	2:n:145:ILE:HG23	1.89	0.54
2:n:36:ALA:HB1	2:n:148:ILE:HG23	1.88	0.54
2:p:15:HIS:CD2	2:p:149:LEU:HB3	2.42	0.54
2:p:78:PRO:HB2	2:p:91:GLU:HB2	1.87	0.54
2:h:12:ILE:HD11	2:h:152:ILE:HG21	1.89	0.54
2:k:36:ALA:HB2	2:k:151:LEU:HD22	1.89	0.54
6:l1:100:ALA:HB1	6:m1:6:GLY:HA3	1.89	0.54
5:o1:254:ASN:OD1	5:o1:255:ARG:N	2.40	0.54
6:v1:36:LYS:O	6:v1:127:GLN:N	2.36	0.54
5:o2:425:ARG:NH2	5:o2:448:GLU:OE1	2.40	0.54
7:L3:83:VAL:HG23	7:L3:126:THR:HG22	1.88	0.54
7:S3:77:ARG:NE	7:S3:158:GLU:OE2	2.40	0.54
7:j3:48:LEU:HD23	7:k3:1:MET:HE3	1.90	0.54
7:13:27:ILE:HB	7:13:224:ILE:HG22	1.90	0.54
7:23:153:ASP:HA	7:23:159:LEU:HD23	1.90	0.54
1:e5:12:ALA:HB3	5:o5:302:CYS:HA	1.90	0.54
5:k5:182:LEU:HD23	5:k5:184:VAL:H	1.73	0.54
5:k5:224:ASP:OD1	5:k5:225:ALA:N	2.40	0.54
6:q6:73:PHE:HB2	6:q6:76:THR:HG23	1.89	0.54
6:v7:15:TRP:HB3	6:v7:128:ILE:HB	1.90	0.54
8:AB:93:GLN:NE2	8:AB:136:ASP:O	2.26	0.54
8:AE:204:ALA:HB3	8:AE:208:ASP:HB2	1.89	0.54
8:AI:187:ARG:NH1	8:AI:363:CYS:HA	2.22	0.54
8:AI:347:GLU:HB3	8:AI:348:PRO:HD3	1.89	0.54
8:AK:359:SER:HB2	8:AK:368:ARG:HB2	1.90	0.54
3:AN:65:ILE:HG23	3:AN:110:ILE:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:66:LYS:HA	2:a:102:PHE:HD1	1.73	0.54
2:q:13:ARG:NH2	2:q:26:ASP:OD1	2.37	0.54
2:h:178:ILE:HG21	2:j:178:ILE:HD12	1.90	0.54
5:g1:180:LEU:HD12	5:r1:200:ILE:HG12	1.89	0.54
5:k1:345:HIS:O	5:k1:348:VAL:HG12	2.07	0.54
6:u2:62:PRO:HG3	6:u2:110:TRP:CD2	2.42	0.54
7:M3:210:ASP:OD1	7:M3:214:ASN:N	2.33	0.54
7:n3:38:MET:HE3	7:n3:183:VAL:HG21	1.90	0.54
7:o3:210:ASP:HB3	7:o3:216:PHE:HE2	1.72	0.54
7:C3:118:GLY:N	7:C3:122:ALA:O	2.32	0.54
6:l5:49:ILE:HD11	6:l5:87:VAL:HG23	1.90	0.54
5:k7:241:GLU:CD	6:m7:134:GLY:HA3	2.32	0.54
8:AC:28:ARG:HG3	8:AC:29:ARG:N	2.22	0.54
8:AL:297:HIS:HE1	8:AL:299:LYS:HB2	1.73	0.54
9:AR:31:ARG:NH1	9:AR:51:PRO:O	2.40	0.54
3:AN:2:ARG:HH11	3:AN:4:ALA:HB3	1.73	0.54
2:p:73:PRO:HG2	2:p:94:PRO:HG3	1.89	0.54
2:p:151:LEU:HD13	2:p:185:ALA:HB2	1.89	0.54
2:m:167:ARG:HE	2:m:168:ASN:N	2.05	0.54
3:I:32:VAL:HG13	3:I:33:ILE:HG13	1.90	0.54
6:m1:67:ARG:HD3	6:m1:84:LEU:HD13	1.89	0.54
6:q1:52:HIS:HB2	6:q1:110:TRP:HB2	1.90	0.54
6:v1:46:THR:HA	6:v1:88:THR:HA	1.90	0.54
5:k2:243:LYS:NZ	6:m2:29:ASN:HB2	2.22	0.54
5:o2:254:ASN:OD1	5:o2:255:ARG:N	2.41	0.54
6:p2:30:GLN:HG2	6:q2:2:ASN:HA	1.88	0.54
7:J3:210:ASP:OD1	7:J3:214:ASN:N	2.31	0.54
7:Q3:21:SER:HA	7:f3:49:ARG:NE	2.20	0.54
7:Q3:108:ASN:HB3	7:Q3:138:TRP:CD1	2.42	0.54
7:W3:132:THR:HG21	7:W3:154:PRO:HB3	1.88	0.54
7:h3:79:LYS:HD2	7:h3:153:ASP:HB2	1.90	0.54
7:u3:38:MET:HE3	7:u3:183:VAL:HG11	1.89	0.54
7:v3:27:ILE:HD13	7:v3:222:TYR:HB3	1.90	0.54
7:v3:153:ASP:HA	7:v3:159:LEU:HD23	1.89	0.54
7:33:38:MET:HE3	7:33:183:VAL:HG21	1.89	0.54
7:73:133:GLY:H	7:73:152:VAL:HG23	1.73	0.54
6:l7:12:PHE:O	6:l7:129:THR:OG1	2.23	0.54
6:p7:47:PHE:HZ	6:p7:126:VAL:HG11	1.72	0.54
8:AB:130:LYS:HB2	8:AB:145:LEU:HD21	1.90	0.54
8:AE:121:TRP:HE3	8:AE:127:MET:HG3	1.71	0.54
8:AH:245:VAL:HG22	8:AH:286:VAL:HG23	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:97:LEU:HD12	8:AI:139:VAL:HG22	1.89	0.54
8:AI:316:PRO:HB2	8:AI:319:LEU:HD23	1.88	0.54
8:AL:261:GLU:O	8:AL:265:GLU:HG2	2.08	0.54
2:l:43:TYR:HD1	8:AB:252:ASP:HA	1.73	0.54
2:l:195:PHE:HZ	8:AB:250:ASP:HA	1.73	0.54
2:i:79:VAL:HG12	2:i:130:TYR:HB3	1.90	0.54
2:m:79:VAL:HG12	2:m:130:TYR:HB3	1.89	0.54
5:h1:348:VAL:O	5:h1:352:LEU:HD12	2.08	0.54
1:e2:21:PRO:O	5:o2:324:GLN:NE2	2.41	0.54
5:h2:285:LEU:HD12	5:h2:419:PHE:CE2	2.43	0.54
6:u2:68:VAL:HG13	6:u2:107:ASN:HD21	1.73	0.54
7:A3:168:VAL:HG11	7:A3:224:ILE:HD12	1.89	0.54
7:E3:74:ALA:HB2	7:E3:91:LEU:HD11	1.89	0.54
5:n5:336:GLU:OE1	5:n5:336:GLU:N	2.32	0.54
6:p7:89:LEU:HD12	6:p7:90:PRO:HD2	1.89	0.54
6:s7:8:ASP:OD1	6:s7:9:PHE:N	2.40	0.54
8:AE:168:GLU:H	8:AF:28:ARG:HH12	1.55	0.54
8:AJ:276:ILE:HG22	8:AK:243:TRP:HB2	1.89	0.54
2:b:38:GLU:CD	2:k:140:VAL:HG21	2.32	0.54
2:p:74:ILE:HD11	2:p:77:ARG:HB2	1.90	0.54
2:q:52:LYS:HE2	7:N3:15:SER:HA	1.89	0.54
2:j:20:ASP:OD1	3:AN:88:SER:OG	2.26	0.54
5:o1:254:ASN:HB3	5:o1:257:ASN:HB2	1.88	0.54
6:u1:62:PRO:HG3	6:u1:110:TRP:CD2	2.42	0.54
1:d2:19:VAL:O	5:n2:328:ARG:NH1	2.41	0.54
4:f2:12:PRO:HA	5:h2:305:VAL:HG13	1.90	0.54
7:M3:59:PHE:HE2	7:M3:175:ARG:HE	1.55	0.54
7:U3:10:ASN:ND2	7:V3:1:MET:O	2.41	0.54
7:V3:38:MET:HG2	7:V3:185:LYS:HG2	1.90	0.54
7:W3:30:ARG:HD2	7:W3:230:GLY:H	1.73	0.54
7:D3:172:ALA:O	7:D3:175:ARG:NH1	2.40	0.54
5:g5:207:PHE:HB2	5:h5:180:LEU:HD22	1.89	0.54
6:s6:62:PRO:HA	6:s6:110:TRP:HZ2	1.73	0.54
5:n7:366:ASP:OD1	5:o7:361:ARG:NH2	2.41	0.54
8:AA:18:PRO:C	8:AA:20:ALA:H	2.16	0.54
8:AA:92:SER:HA	8:AA:95:LYS:HE2	1.88	0.54
9:AT:77:ARG:HD2	9:AT:150:ARG:HD3	1.90	0.54
2:b:84:GLY:HA2	2:b:124:SER:O	2.08	0.54
2:b:95:ARG:NH2	2:o:57:PRO:O	2.41	0.54
2:n:9:LEU:HD21	2:n:30:LYS:HD3	1.90	0.54
5:n1:283:GLN:HE21	5:n1:287:ILE:HD11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s1:25:VAL:HG22	6:s1:110:TRP:HA	1.89	0.54
5:k2:210:MET:SD	5:k2:239:HIS:ND1	2.67	0.54
5:k2:245:TYR:CD1	5:k2:292:ASN:HA	2.43	0.54
7:K3:132:THR:HG21	7:K3:154:PRO:HB3	1.89	0.54
7:M3:48:LEU:HD12	7:N3:1:MET:HE3	1.89	0.54
7:O3:83:VAL:HG23	7:O3:126:THR:HG22	1.90	0.54
7:a3:208:ALA:HB3	7:a3:216:PHE:HB2	1.90	0.54
7:f3:38:MET:HG2	7:f3:185:LYS:HG2	1.89	0.54
7:f3:118:GLY:HA3	7:f3:122:ALA:HB3	1.90	0.54
7:g3:102:TYR:HD1	7:g3:141:ILE:HD12	1.73	0.54
7:x3:21:SER:OG	7:x3:22:CYS:N	2.40	0.54
7:43:118:GLY:N	7:43:122:ALA:O	2.33	0.54
7:B3:38:MET:HE3	7:B3:183:VAL:HG21	1.90	0.54
6:q5:47:PHE:HB2	6:q5:87:VAL:HG23	1.89	0.54
5:r5:240:LEU:HD22	6:t5:136:THR:HA	1.88	0.54
6:s6:30:GLN:HB2	6:s6:133:LYS:HB2	1.90	0.54
8:AA:83:GLN:HE21	8:AA:366:GLY:H	1.55	0.54
8:AC:391:ASP:OD1	8:AD:394:THR:HG22	2.08	0.54
9:AQ:129:PHE:HD1	9:AQ:151:GLN:HB2	1.73	0.54
10:AU:96:VAL:HG12	10:AU:127:LEU:HB2	1.90	0.54
2:b:66:LYS:HE3	8:AI:272:ASN:HB3	1.90	0.54
2:b:79:VAL:HG23	2:b:130:TYR:HB3	1.88	0.54
5:g1:207:PHE:HB2	5:h1:180:LEU:HD22	1.89	0.54
6:l1:94:THR:O	6:l1:97:SER:OG	2.26	0.54
6:p2:36:LYS:O	6:p2:127:GLN:N	2.38	0.54
7:N3:30:ARG:HD2	7:N3:230:GLY:H	1.73	0.54
7:93:138:TRP:CE3	7:93:147:GLU:HB3	2.43	0.54
7:E3:167:PRO:HA	7:E3:191:SER:HB3	1.88	0.54
5:h5:217:GLN:H	5:h5:233:GLU:HG2	1.73	0.54
6:q5:24:LYS:HG2	6:q5:26:ASP:H	1.73	0.54
8:AA:243:TRP:HE1	8:AB:291:ASN:HD21	1.56	0.54
8:AB:217:ILE:HB	8:AB:309:ILE:HD12	1.89	0.54
8:AE:132:SER:HA	8:AE:191:ASN:OD1	2.08	0.54
8:AG:255:GLN:O	8:AG:258:GLU:HG3	2.08	0.54
8:AI:127:MET:HG2	8:AI:129:PHE:CE2	2.43	0.54
3:AN:25:LEU:HG	9:AT:33:ILE:HG12	1.88	0.54
3:AN:48:SER:OG	3:AN:52:VAL:O	2.26	0.54
2:l:94:PRO:HA	2:l:101:LEU:HD11	1.89	0.53
2:o:95:ARG:NH2	2:h:57:PRO:O	2.35	0.53
2:i:197:TYR:OH	2:k:38:GLU:OE2	2.20	0.53
2:j:9:LEU:HA	2:j:12:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:p3:88:LEU:N	7:p3:121:GLY:O	2.39	0.53
7:s3:27:ILE:HD13	7:s3:222:TYR:HB3	1.90	0.53
7:z3:64:VAL:HG23	7:z3:199:VAL:HG23	1.90	0.53
7:63:38:MET:HE3	7:63:183:VAL:HG21	1.90	0.53
7:C3:125:TYR:OH	7:C3:135:ASP:OD2	2.21	0.53
7:D3:8:PRO:HB3	7:D3:43:ALA:HB1	1.89	0.53
1:d5:1:MET:HE3	1:d5:2:VAL:H	1.73	0.53
5:h5:281:ARG:HH21	5:h5:449:ASP:HB2	1.74	0.53
5:n5:229:ALA:HB3	5:o5:250:VAL:HG13	1.90	0.53
6:u5:129:THR:HB	6:v5:13:ILE:HD11	1.90	0.53
6:p7:13:ILE:HG13	6:q7:13:ILE:HD12	1.90	0.53
8:AD:163:PHE:CE2	8:AD:193:ALA:HB3	2.43	0.53
8:AD:374:ASP:HA	8:AD:383:ARG:NH1	2.23	0.53
8:AE:39:VAL:HG13	8:AE:40:VAL:HG13	1.90	0.53
8:AE:59:ARG:HH11	8:AE:320:LEU:HD22	1.73	0.53
8:AF:276:ILE:HG22	8:AG:243:TRP:HB2	1.90	0.53
8:AG:34:GLY:HA2	8:AG:153:LYS:HE3	1.89	0.53
8:AH:98:GLN:HG2	8:AI:82:THR:HG21	1.90	0.53
10:AZ:88:GLN:HG3	10:AZ:98:THR:HG23	1.90	0.53
1:d:9:LEU:HD21	6:l1:24:LYS:HB3	1.90	0.53
2:l:160:GLY:H	2:m:150:LYS:HG2	1.73	0.53
2:o:49:THR:O	2:o:50:PRO:C	2.49	0.53
2:k:15:HIS:CD2	2:k:149:LEU:HB3	2.43	0.53
6:m1:9:PHE:CE1	6:m1:133:LYS:HG3	2.43	0.53
5:n2:215:TYR:OH	5:o2:185:ASP:OD1	2.25	0.53
7:W3:171:PRO:HD2	7:W3:187:VAL:HG13	1.90	0.53
7:d3:200:TYR:HB2	7:d3:224:ILE:HD11	1.90	0.53
7:t3:48:LEU:HD23	7:u3:1:MET:HE3	1.90	0.53
7:83:48:LEU:HD23	7:93:1:MET:HE3	1.89	0.53
5:r5:213:ALA:HB3	5:r5:236:ASN:HB2	1.90	0.53
6:s6:91:GLU:HG3	6:s6:92:THR:HG23	1.90	0.53
5:h7:365:GLY:O	5:h7:367:GLY:N	2.39	0.53
5:k7:224:ASP:OD1	5:k7:225:ALA:N	2.41	0.53
5:o7:254:ASN:OD1	5:o7:255:ARG:N	2.41	0.53
6:p7:42:THR:H	6:p7:122:ASN:HD21	1.56	0.53
8:AA:132:SER:HA	8:AA:191:ASN:HD22	1.72	0.53
8:AB:298:SER:HB3	8:AB:301:PRO:HG2	1.90	0.53
8:AC:384:ALA:HA	8:AD:390:TYR:HE2	1.72	0.53
8:AD:83:GLN:HE21	8:AD:366:GLY:H	1.57	0.53
8:AJ:275:GLU:O	8:AK:241:SER:OG	2.20	0.53
2:p:45:GLY:O	2:p:46:LEU:HD12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:q:88:SER:OG	5:g1:225:ALA:O	2.20	0.53
2:k:144:ILE:HG13	2:k:194:TRP:CD1	2.44	0.53
3:H:15:GLN:OE1	3:H:80:TRP:NE1	2.40	0.53
5:r1:200:ILE:HG23	5:r1:422:VAL:HG12	1.90	0.53
7:d3:171:PRO:HD2	7:d3:187:VAL:HG23	1.90	0.53
7:v3:161:GLN:HE22	7:v3:164:PHE:HE2	1.55	0.53
6:t5:67:ARG:HE	6:t5:84:LEU:HD13	1.73	0.53
5:h6:305:VAL:HG23	5:h6:461:ILE:HB	1.90	0.53
6:u7:28:PHE:CD1	6:u7:134:GLY:HA3	2.43	0.53
8:AD:26:PHE:O	8:AD:31:PHE:N	2.40	0.53
8:AD:347:GLU:HA	8:AD:351:LEU:HD12	1.89	0.53
8:AF:131:VAL:O	8:AF:191:ASN:ND2	2.31	0.53
8:AH:108:MET:HB2	8:AI:205:MET:HE2	1.90	0.53
8:AJ:126:ARG:HH12	8:AJ:210:GLN:HA	1.73	0.53
2:q:181:THR:HA	2:q:187:ILE:HG13	1.90	0.53
6:p1:77:VAL:O	6:p1:78:LEU:HD22	2.08	0.53
7:K3:181:THR:HG23	7:K3:183:VAL:HG22	1.90	0.53
7:O3:75:PHE:HZ	7:O3:77:ARG:HE	1.57	0.53
7:63:48:LEU:HG	7:73:1:MET:HE3	1.89	0.53
5:g5:220:GLU:HA	5:h5:247:TYR:CE1	2.43	0.53
8:AB:132:SER:HA	8:AB:191:ASN:ND2	2.23	0.53
8:AE:67:THR:O	8:AE:70:SER:OG	2.27	0.53
8:AJ:266:THR:OG1	8:AJ:273:GLY:HA2	2.09	0.53
8:AK:280:ALA:HA	8:AL:247:ALA:HB3	1.89	0.53
8:AL:335:ASP:O	8:AL:339:LYS:HG2	2.08	0.53
10:AZ:32:GLN:NE2	10:AZ:36:THR:O	2.41	0.53
10:AV:129:PRO:O	10:AV:130:PRO:C	2.52	0.53
1:f:4:LEU:O	1:f:5:ASN:OD1	2.27	0.53
2:a:144:ILE:HG12	2:a:148:ILE:HD12	1.90	0.53
2:l:161:ASP:HB2	2:m:157:ASN:ND2	2.24	0.53
2:n:15:HIS:CD2	2:n:149:LEU:HB3	2.43	0.53
3:I:69:TYR:HA	3:I:108:MET:HG3	1.89	0.53
7:W3:79:LYS:HE3	7:W3:155:THR:HA	1.90	0.53
7:f3:48:LEU:O	7:f3:50:GLY:N	2.40	0.53
7:m3:210:ASP:OD2	7:m3:214:ASN:ND2	2.35	0.53
7:v3:171:PRO:HD2	7:v3:187:VAL:HG13	1.91	0.53
7:w3:77:ARG:NH1	7:w3:159:LEU:O	2.41	0.53
7:53:8:PRO:HB3	7:53:43:ALA:HB1	1.90	0.53
7:E3:209:ILE:HD11	7:E3:213:GLY:HA2	1.91	0.53
5:n5:337:TYR:CE1	5:o5:188:ILE:HD13	2.43	0.53
5:o7:334:PRO:HD2	5:o7:460:ARG:HH12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:126:ARG:HH21	8:AA:198:LYS:H	1.55	0.53
8:AA:280:ALA:HA	8:AB:247:ALA:HB3	1.90	0.53
8:AD:55:PRO:HA	8:AE:216:ALA:HB1	1.89	0.53
8:AF:297:HIS:HE1	8:AF:299:LYS:HB2	1.72	0.53
8:AL:373:ARG:O	8:AL:376:ILE:HG22	2.09	0.53
9:AQ:118:MET:HE2	9:AR:68:ILE:HB	1.90	0.53
1:f:18:LEU:HD11	5:g2:306:PHE:CB	2.38	0.53
1:f:22:PRO:HD3	5:h2:397:GLY:C	2.34	0.53
6:p1:52:HIS:ND1	6:p1:64:PRO:O	2.38	0.53
5:g2:193:LEU:HD21	5:g2:383:SER:HB2	1.91	0.53
5:g2:238:ARG:HH21	5:g2:240:LEU:HD21	1.73	0.53
5:h2:204:ARG:HA	5:h2:424:LYS:HE2	1.90	0.53
7:m3:210:ASP:HB3	7:m3:216:PHE:HE2	1.73	0.53
7:n3:1:MET:HE3	7:23:48:LEU:HD23	1.91	0.53
7:A3:35:ASN:OD1	7:A3:36:GLY:N	2.41	0.53
7:G3:35:ASN:OD1	7:G3:36:GLY:N	2.40	0.53
1:e7:19:VAL:HG12	5:r7:394:THR:HA	1.90	0.53
8:AH:26:PHE:O	8:AH:31:PHE:N	2.42	0.53
8:AH:112:GLN:NE2	8:AI:197:VAL:O	2.42	0.53
9:AQ:90:ARG:NH1	9:AQ:98:GLU:OE2	2.41	0.53
3:AP:44:ALA:HB1	3:AN:97:SER:OG	2.09	0.53
1:e:17:ARG:HB2	5:h1:394:THR:HG23	1.91	0.53
2:n:58:ILE:HD13	2:n:69:LEU:HD23	1.91	0.53
2:q:77:ARG:HD3	2:q:131:VAL:HG11	1.91	0.53
2:m:77:ARG:NH1	7:Q3:1:MET:O	2.41	0.53
1:d1:19:VAL:HG12	5:n1:309:LEU:HD11	1.90	0.53
5:k2:345:HIS:O	5:k2:348:VAL:HG12	2.08	0.53
7:R3:210:ASP:OD1	7:R3:214:ASN:N	2.41	0.53
7:Z3:38:MET:HG2	7:Z3:185:LYS:HG2	1.90	0.53
7:f3:108:ASN:HB3	7:f3:138:TRP:CD1	2.44	0.53
7:g3:77:ARG:NH1	7:g3:159:LEU:O	2.38	0.53
7:k3:21:SER:OG	7:k3:22:CYS:N	2.41	0.53
7:E3:38:MET:HE3	7:E3:183:VAL:HG21	1.89	0.53
1:d5:19:VAL:O	5:n5:328:ARG:NH1	2.42	0.53
5:g5:458:HIS:HE2	5:h5:186:CYS:HA	1.73	0.53
5:o5:241:GLU:HB2	6:u5:135:ALA:HB2	1.90	0.53
6:s5:62:PRO:HA	6:s5:110:TRP:HZ2	1.73	0.53
6:v5:46:THR:HA	6:v5:88:THR:HA	1.90	0.53
5:k7:234:PRO:HB3	5:n7:269:MET:HE1	1.91	0.53
6:q7:50:PHE:HE2	6:q7:114:ALA:HB3	1.74	0.53
8:AB:181:GLU:HG3	8:AB:189:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:242:LYS:HG2	8:AI:243:TRP:H	1.73	0.53
3:AM:20:ASP:OD2	3:AM:24:ARG:NH1	2.42	0.53
9:AX:77:ARG:HD2	9:AX:150:ARG:HD3	1.91	0.53
2:o:7:LEU:O	2:o:33:ARG:NH1	2.40	0.53
2:o:129:THR:HG21	7:W3:43:ALA:HA	1.91	0.53
3:H:44:ALA:HB1	3:AO:97:SER:OG	2.08	0.53
3:I:63:HIS:NE2	3:AM:103:GLU:OE2	2.42	0.53
6:s1:47:PHE:CZ	6:s1:126:VAL:HG11	2.44	0.53
1:d2:29:VAL:HG23	1:d2:32:SER:HB3	1.91	0.53
5:g2:291:VAL:HG12	5:g2:292:ASN:ND2	2.24	0.53
7:c3:118:GLY:HA3	7:c3:122:ALA:HB3	1.91	0.53
7:w3:110:PRO:HG3	7:w3:115:VAL:HG13	1.91	0.53
7:73:88:LEU:HG	7:73:141:ILE:HD11	1.90	0.53
1:e5:21:PRO:O	5:o5:324:GLN:NE2	2.40	0.53
8:AB:248:SER:H	8:AB:251:LEU:HD12	1.73	0.53
8:AE:93:GLN:OE1	8:AE:187:ARG:NH1	2.41	0.53
8:AF:151:LYS:HG3	8:AF:164:GLN:HB2	1.90	0.53
3:AP:8:HIS:CD2	3:AP:39:ILE:HG12	2.44	0.53
1:e:29:VAL:HG12	1:e:31:PRO:HD2	1.91	0.53
2:a:50:PRO:HB2	2:a:133:GLY:HA2	1.90	0.53
2:h:198:ARG:CZ	8:AH:253:ASP:HB2	2.39	0.53
2:m:153:ALA:HA	2:m:156:ILE:HD12	1.91	0.53
5:r1:295:LYS:HE3	5:r1:300:GLU:HG3	1.91	0.53
5:o2:334:PRO:HD2	5:o2:460:ARG:HH12	1.72	0.53
7:S3:104:ILE:HG12	7:S3:117:LEU:HD22	1.91	0.53
7:d3:77:ARG:NE	7:d3:158:GLU:OE2	2.42	0.53
7:43:2:TYR:HB2	7:43:37:VAL:HG22	1.90	0.53
7:63:172:ALA:O	7:63:175:ARG:NH1	2.42	0.53
7:83:217:VAL:H	7:93:34:VAL:HB	1.72	0.53
7:D3:207:VAL:HB	7:D3:215:GLU:OE2	2.09	0.53
7:F3:56:LYS:NZ	7:F3:215:GLU:OE1	2.33	0.53
5:g5:422:VAL:HG23	5:g5:451:GLY:HA2	1.89	0.53
1:d7:9:LEU:HD11	6:q7:98:PHE:HD1	1.74	0.53
8:AE:339:LYS:NZ	8:AE:343:GLU:OE1	2.42	0.53
8:AK:347:GLU:HA	8:AK:351:LEU:HB2	1.90	0.53
9:AS:129:PHE:HD1	9:AS:151:GLN:HB2	1.74	0.53
2:j:144:ILE:HG13	2:j:194:TRP:CD1	2.44	0.53
3:H:8:HIS:CD2	3:H:39:ILE:HG12	2.44	0.53
6:t1:43:ALA:H	6:t1:122:ASN:HD21	1.56	0.53
7:K3:25:GLU:HB2	7:K3:222:TYR:HD1	1.74	0.53
7:p3:153:ASP:HA	7:p3:159:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:z3:110:PRO:HG3	7:z3:115:VAL:HG13	1.90	0.53
7:83:7:ASP:OD2	7:83:9:ARG:NH1	2.41	0.53
7:83:139:PHE:HE1	7:83:148:TYR:HB2	1.72	0.53
7:A3:8:PRO:HB3	7:A3:43:ALA:HB1	1.91	0.53
5:g5:424:LYS:HD3	5:g5:448:GLU:HG2	1.91	0.53
5:k6:218:LEU:O	5:n6:247:TYR:OH	2.21	0.53
6:p6:41:LEU:HG	6:p6:122:ASN:HD21	1.74	0.53
5:k7:346:GLN:HA	5:k7:382:ILE:HD11	1.91	0.53
5:n7:220:GLU:OE1	5:n7:220:GLU:N	2.42	0.53
6:p7:133:LYS:NZ	6:q7:3:PHE:HB2	2.23	0.53
8:AA:164:GLN:NE2	8:AA:171:LYS:HE2	2.24	0.53
8:AC:396:ILE:HG23	8:AC:400:GLU:HG3	1.89	0.53
3:AO:1:MET:HE1	3:AO:6:ARG:HG2	1.90	0.53
2:a:37:PHE:HA	2:a:148:ILE:HD11	1.91	0.52
2:a:134:ARG:HH11	2:a:134:ARG:HA	1.74	0.52
2:l:95:ARG:H	2:l:101:LEU:HD21	1.74	0.52
2:i:86:LEU:HD11	2:i:90:LEU:HD22	1.90	0.52
2:m:144:ILE:HG13	2:m:194:TRP:CD1	2.43	0.52
5:k1:197:TYR:OH	5:k1:297:TRP:NE1	2.42	0.52
4:f2:24:ARG:NH1	5:k2:325:ASP:OD2	2.30	0.52
6:s2:33:PHE:N	6:s2:101:GLY:O	2.40	0.52
7:R3:77:ARG:NH2	7:R3:158:GLU:OE1	2.42	0.52
7:W3:24:CYS:HB2	7:W3:223:ASP:OD1	2.08	0.52
7:d3:102:TYR:HD1	7:d3:141:ILE:HD12	1.74	0.52
7:k3:210:ASP:HB3	7:k3:216:PHE:HE2	1.74	0.52
7:y3:154:PRO:O	7:y3:155:THR:HG22	2.08	0.52
5:k5:234:PRO:HB3	5:n5:269:MET:HE1	1.91	0.52
6:q6:47:PHE:HB2	6:q6:87:VAL:HG23	1.90	0.52
5:g7:343:VAL:HG22	5:g7:386:LEU:HD11	1.90	0.52
6:p7:67:ARG:HD3	6:p7:84:LEU:HD13	1.91	0.52
6:v7:67:ARG:NH1	6:v7:84:LEU:HD12	2.24	0.52
8:AA:243:TRP:HB2	8:AL:276:ILE:HG22	1.91	0.52
8:AB:151:LYS:O	8:AB:164:GLN:N	2.39	0.52
8:AF:132:SER:HA	8:AF:191:ASN:ND2	2.25	0.52
2:k:20:ASP:HB2	3:AM:87:LYS:HG3	1.90	0.52
5:h1:207:PHE:O	5:h1:241:GLU:HB2	2.09	0.52
5:r1:387:PRO:HD2	5:r1:408:PHE:HD1	1.74	0.52
6:u1:67:ARG:HD3	6:u1:84:LEU:HD23	1.91	0.52
6:t2:130:VAL:HG13	6:t2:132:MET:HE1	1.91	0.52
7:o3:48:LEU:HD23	7:p3:1:MET:HE3	1.91	0.52
7:r3:209:ILE:HD11	7:r3:213:GLY:HA2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:23:133:GLY:H	7:23:152:VAL:HG23	1.74	0.52
7:83:149:VAL:HG21	7:83:162:PRO:HG3	1.91	0.52
7:B3:51:HIS:HD2	7:B3:211:CYS:HA	1.74	0.52
1:e5:7:ARG:HD2	1:e5:8:PRO:O	2.09	0.52
5:k5:270:ILE:O	8:AA:29:ARG:NH1	2.42	0.52
5:n5:294:PRO:HG3	5:n5:450:GLY:HA2	1.91	0.52
5:r5:251:PHE:HE1	5:r5:443:TYR:HB2	1.74	0.52
1:a6:6:CYS:HB3	6:l6:99:CYS:CA	2.40	0.52
6:l6:9:PHE:CD1	6:l6:133:LYS:HA	2.44	0.52
6:m6:67:ARG:HD3	6:m6:84:LEU:HD13	1.91	0.52
8:AA:350:TYR:C	8:AA:353:PRO:HD2	2.34	0.52
8:AD:351:LEU:HB3	8:AD:371:PHE:CZ	2.45	0.52
8:AI:133:VAL:HA	8:AI:139:VAL:HA	1.91	0.52
10:AV:39:THR:HB	10:Aa:109:GLU:HB3	1.92	0.52
10:Aa:26:GLY:HA2	10:Aa:28:ILE:HG13	1.90	0.52
2:k:47:SER:OG	2:k:48:PHE:N	2.43	0.52
6:t1:51:TYR:HB3	6:t1:68:VAL:HG22	1.92	0.52
1:a2:9:LEU:HD21	6:l2:98:PHE:HD1	1.74	0.52
5:h2:375:LEU:HD12	5:h2:380:ILE:HB	1.91	0.52
7:N3:23:CYS:SG	7:O3:229:CYS:HB3	2.49	0.52
7:O3:75:PHE:HD1	7:O3:149:VAL:HG13	1.75	0.52
7:Z3:217:VAL:H	7:a3:34:VAL:HB	1.72	0.52
7:E3:138:TRP:CE3	7:E3:147:GLU:HB3	2.45	0.52
6:u5:76:THR:HG23	6:u5:78:LEU:H	1.75	0.52
1:e6:9:LEU:HD21	6:v6:98:PHE:CD1	2.45	0.52
5:h6:365:GLY:O	5:h6:367:GLY:N	2.43	0.52
5:o6:254:ASN:HB3	5:o6:257:ASN:HB2	1.91	0.52
5:k7:308:THR:OG1	5:k7:325:ASP:OD2	2.25	0.52
6:m7:80:SER:O	6:m7:81:GLU:HG3	2.09	0.52
6:u7:76:THR:HG23	6:u7:78:LEU:H	1.74	0.52
6:v7:73:PHE:H	6:v7:76:THR:HG23	1.73	0.52
8:AA:127:MET:HB2	8:AA:196:ILE:HB	1.90	0.52
8:AB:143:TRP:HH2	8:AC:18:PRO:HG2	1.75	0.52
8:AD:250:ASP:N	8:AD:250:ASP:OD1	2.42	0.52
8:AJ:266:THR:HG23	8:AK:239:PRO:HB3	1.91	0.52
8:AK:242:LYS:HZ3	8:AK:291:ASN:HB2	1.73	0.52
9:AQ:110:ILE:HD12	9:AQ:145:ILE:HD12	1.92	0.52
10:Aa:90:GLU:HG3	10:Aa:96:VAL:HG12	1.89	0.52
2:n:137:GLU:HG3	7:N3:18:VAL:O	2.10	0.52
5:h2:199:GLN:HB3	8:AE:29:ARG:HD2	1.92	0.52
5:h2:285:LEU:HD11	5:h2:451:GLY:HA3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T3:94:ASN:ND2	7:T3:96:GLU:O	2.42	0.52
7:b3:104:ILE:HG12	7:b3:117:LEU:HD12	1.91	0.52
7:h3:184:LEU:HD12	7:h3:206:GLN:HE21	1.74	0.52
7:y3:4:PHE:HB2	7:y3:39:VAL:HG12	1.91	0.52
7:63:210:ASP:OD1	7:63:214:ASN:N	2.42	0.52
7:B3:79:LYS:HD3	7:B3:153:ASP:HB2	1.92	0.52
6:p5:24:LYS:HE2	6:p5:26:ASP:HB2	1.91	0.52
5:o6:202:VAL:HG13	5:o6:424:LYS:HG3	1.91	0.52
6:s6:74:CYS:SG	6:s6:75:ASP:N	2.82	0.52
8:AC:255:GLN:O	8:AC:258:GLU:HG3	2.08	0.52
8:AH:227:LEU:HD21	8:AH:298:SER:HB2	1.89	0.52
8:AI:83:GLN:HE21	8:AI:366:GLY:H	1.58	0.52
8:AK:21:ASN:HD21	8:AK:158:GLY:HA3	1.75	0.52
8:AK:259:VAL:O	8:AK:263:ILE:HG22	2.09	0.52
8:AL:190:LYS:HG2	8:AL:191:ASN:H	1.74	0.52
3:AN:37:ALA:CB	3:AN:65:ILE:HD11	2.39	0.52
3:AN:43:LYS:HD3	3:AN:44:ALA:O	2.09	0.52
2:h:95:ARG:NH2	2:j:57:PRO:HB2	2.24	0.52
5:g1:291:VAL:HG12	5:g1:292:ASN:ND2	2.25	0.52
6:t1:91:GLU:HG3	6:t1:92:THR:H	1.75	0.52
1:d2:19:VAL:HG12	5:n2:309:LEU:HD11	1.91	0.52
5:g2:220:GLU:HA	5:h2:247:TYR:HE1	1.74	0.52
5:o2:229:ALA:HB1	5:r2:249:GLY:HA2	1.90	0.52
7:Y3:1:MET:HE3	7:m3:48:LEU:HD22	1.90	0.52
7:c3:184:LEU:HD12	7:c3:206:GLN:HE21	1.75	0.52
7:e3:38:MET:HG2	7:e3:185:LYS:HG2	1.91	0.52
7:g3:108:ASN:HB3	7:g3:138:TRP:CD1	2.44	0.52
7:m3:133:GLY:H	7:m3:152:VAL:HG23	1.74	0.52
7:m3:154:PRO:HG2	7:m3:156:THR:HG22	1.92	0.52
7:u3:194:ALA:HB1	7:u3:226:ILE:HG12	1.91	0.52
7:v3:108:ASN:HB3	7:v3:138:TRP:CD1	2.45	0.52
7:83:8:PRO:HB3	7:83:43:ALA:HB1	1.92	0.52
7:F3:35:ASN:OD1	7:F3:36:GLY:N	2.42	0.52
1:b5:2:VAL:HG11	6:s5:87:VAL:HG22	1.92	0.52
6:p5:15:TRP:HB3	6:p5:128:ILE:HB	1.91	0.52
5:o6:243:LYS:HD2	6:u6:29:ASN:HB2	1.91	0.52
6:v6:30:GLN:HB2	6:v6:133:LYS:HB3	1.90	0.52
6:p7:28:PHE:CD2	6:p7:132:MET:HG3	2.45	0.52
6:p7:36:LYS:O	6:p7:127:GLN:N	2.39	0.52
6:v7:48:ASN:HB3	6:v7:67:ARG:HH12	1.75	0.52
8:AC:390:TYR:O	8:AC:393:VAL:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AD:39:VAL:HG23	8:AD:40:VAL:HG23	1.90	0.52
8:AE:228:MET:O	8:AE:232:ILE:HG12	2.10	0.52
8:AG:156:ARG:HG3	8:AG:157:TYR:HD1	1.74	0.52
8:AJ:150:LEU:HD13	8:AJ:165:TYR:CD2	2.45	0.52
8:AK:393:VAL:HG11	8:AK:396:ILE:HD12	1.91	0.52
8:AL:245:VAL:HG23	8:AL:286:VAL:HG12	1.91	0.52
10:AZ:30:HIS:HE2	10:AZ:79:TYR:HH	1.58	0.52
9:AT:41:ASP:O	9:AT:45:THR:OG1	2.24	0.52
1:g:4:LEU:HD11	6:m5:99:CYS:HB3	1.92	0.52
2:b:61:LYS:HZ2	2:b:68:ILE:HG22	1.73	0.52
2:l:79:VAL:HG23	2:l:130:TYR:HB3	1.92	0.52
2:j:58:ILE:HD11	2:j:61:LYS:HZ1	1.75	0.52
3:H:20:ASP:N	3:H:24:ARG:O	2.43	0.52
5:r2:345:HIS:HB3	5:r2:348:VAL:HG23	1.91	0.52
7:a3:102:TYR:HD1	7:a3:141:ILE:HD12	1.74	0.52
7:b3:79:LYS:HD2	7:b3:153:ASP:HB2	1.92	0.52
5:g5:255:ARG:NH2	5:g5:437:SER:O	2.42	0.52
5:k6:297:TRP:CD1	5:k6:297:TRP:H	2.26	0.52
5:o6:254:ASN:OD1	5:o6:255:ARG:N	2.42	0.52
6:v6:23:VAL:HG11	6:v6:130:VAL:HG11	1.90	0.52
5:k7:333:PHE:O	5:n7:346:GLN:NE2	2.34	0.52
8:AK:37:LYS:NZ	8:AK:38:ASN:O	2.43	0.52
8:AK:89:MET:HE2	8:AK:185:LYS:HB2	1.90	0.52
8:AK:102:GLN:HE21	8:AL:80:GLN:HG3	1.75	0.52
3:AN:12:VAL:HB	3:AN:33:ILE:HB	1.91	0.52
9:AS:83:GLU:HG3	9:AS:146:GLU:OE2	2.10	0.52
2:l:43:TYR:CE2	2:l:194:TRP:HB3	2.45	0.52
2:l:69:LEU:O	2:l:99:ASN:ND2	2.43	0.52
2:h:71:ALA:HB3	2:h:130:TYR:CE2	2.44	0.52
2:k:53:THR:HB	7:U3:8:PRO:HG3	1.91	0.52
2:m:20:ASP:OD1	3:AO:88:SER:N	2.43	0.52
5:h1:189:GLU:HG3	5:h1:279:ILE:HG22	1.91	0.52
5:k1:297:TRP:CD1	5:k1:297:TRP:H	2.27	0.52
5:o1:365:GLY:O	5:o1:367:GLY:N	2.42	0.52
5:h2:365:GLY:O	5:h2:367:GLY:N	2.41	0.52
7:O3:190:VAL:HG21	7:O3:226:ILE:HD13	1.92	0.52
7:P3:181:THR:HG23	7:P3:183:VAL:HG12	1.92	0.52
7:S3:215:GLU:OE2	7:S3:217:VAL:HG23	2.10	0.52
7:X3:167:PRO:HA	7:X3:191:SER:HB3	1.92	0.52
7:e3:88:LEU:N	7:e3:121:GLY:O	2.31	0.52
7:g3:57:THR:HG21	7:g3:184:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n3:48:LEU:HD23	7:o3:1:MET:HE3	1.91	0.52
7:u3:9:ARG:HH22	7:v3:230:GLY:HA2	1.74	0.52
7:33:71:VAL:HG11	7:33:141:ILE:HB	1.90	0.52
7:E3:71:VAL:HG11	7:E3:141:ILE:HB	1.91	0.52
7:G3:154:PRO:O	7:G3:155:THR:HG22	2.09	0.52
6:l5:58:ASP:HB2	6:l5:61:VAL:HG22	1.92	0.52
6:m5:67:ARG:HD3	6:m5:84:LEU:HD13	1.92	0.52
6:p5:47:PHE:CZ	6:p5:126:VAL:HG11	2.44	0.52
6:s5:24:LYS:HG2	6:s5:26:ASP:H	1.75	0.52
5:g6:291:VAL:HG22	5:g6:292:ASN:ND2	2.24	0.52
8:AJ:297:HIS:HE1	8:AJ:299:LYS:HB2	1.74	0.52
10:AU:89:VAL:HG12	10:AU:97:MET:HB2	1.91	0.52
10:Aa:99:LEU:HD12	10:Aa:124:ILE:HD11	1.91	0.52
3:AO:15:GLN:HG2	3:AO:78:SER:OG	2.10	0.52
2:l:17:LYS:O	3:I:6:ARG:NH2	2.42	0.52
2:m:20:ASP:H	3:AO:86:LEU:HD12	1.73	0.52
4:f1:24:ARG:NH2	5:k1:325:ASP:OD1	2.42	0.52
5:k2:223:CYS:SG	5:k2:224:ASP:N	2.82	0.52
6:m2:67:ARG:HD3	6:m2:84:LEU:HD13	1.91	0.52
7:K3:94:ASN:ND2	7:K3:96:GLU:O	2.43	0.52
7:P3:85:GLU:OE1	7:P3:85:GLU:N	2.43	0.52
7:P3:167:PRO:HA	7:P3:191:SER:HB3	1.92	0.52
7:i3:154:PRO:O	7:i3:156:THR:HG23	2.10	0.52
7:23:172:ALA:O	7:23:175:ARG:NH1	2.42	0.52
7:83:35:ASN:OD1	7:83:36:GLY:N	2.41	0.52
7:93:108:ASN:HB3	7:93:138:TRP:CD1	2.45	0.52
7:E3:9:ARG:HH22	7:F3:230:GLY:HA2	1.74	0.52
6:s5:74:CYS:SG	6:s5:75:ASP:N	2.83	0.52
5:o6:334:PRO:HD2	5:o6:460:ARG:HH12	1.75	0.52
1:d7:27:ARG:HH22	5:o7:322:LEU:HD13	1.74	0.52
5:o7:221:TYR:CE2	5:r7:247:TYR:HB2	2.44	0.52
8:AL:404:VAL:HG13	8:AL:405:THR:HG23	1.92	0.52
1:f:23:CYS:CB	1:b2:26:CYS:SG	2.98	0.52
2:a:146:ILE:HD11	2:n:35:ALA:HB1	1.91	0.52
2:b:32:TYR:OH	2:k:15:HIS:ND1	2.28	0.52
2:h:17:LYS:O	3:AN:6:ARG:NH2	2.43	0.52
2:k:58:ILE:HG12	2:k:67:ILE:HG23	1.92	0.52
2:m:85:GLY:O	2:m:110:ARG:HA	2.10	0.52
5:r2:226:LYS:HB3	6:l7:71:VAL:HG21	1.92	0.52
7:O3:210:ASP:OD1	7:O3:214:ASN:N	2.42	0.52
7:j3:154:PRO:HG2	7:j3:156:THR:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:83:VAL:HG13	7:o3:126:THR:HG22	1.91	0.52
7:r3:167:PRO:HA	7:r3:191:SER:HB3	1.92	0.52
7:v3:154:PRO:O	7:v3:155:THR:HG22	2.10	0.52
7:v3:172:ALA:O	7:v3:175:ARG:NH1	2.43	0.52
7:B3:138:TRP:CE3	7:B3:147:GLU:HB3	2.45	0.52
5:o5:361:ARG:HB3	5:r5:361:ARG:HH21	1.73	0.52
4:f6:24:ARG:NH1	5:k6:325:ASP:OD2	2.28	0.52
4:f6:25:GLY:O	5:n6:398:THR:OG1	2.27	0.52
6:l6:4:ASN:HD21	6:m6:101:GLY:HA2	1.75	0.52
5:r6:208:THR:OG1	5:r6:240:LEU:O	2.26	0.52
5:r6:306:PHE:HE2	5:r6:460:ARG:HD3	1.75	0.52
6:t7:24:LYS:HE3	6:t7:26:ASP:HB3	1.92	0.52
6:v7:46:THR:HG23	6:v7:116:ALA:HB3	1.92	0.52
8:AG:393:VAL:HG11	8:AG:396:ILE:HD12	1.92	0.52
8:AH:133:VAL:HA	8:AH:139:VAL:HA	1.92	0.52
2:a:44:THR:HG23	8:AF:253:ASP:HB2	1.92	0.52
2:l:57:PRO:HB2	2:m:95:ARG:HH22	1.75	0.52
3:I:70:ASN:H	3:I:108:MET:HE2	1.74	0.52
5:o1:457:GLU:HB3	5:r1:186:CYS:SG	2.50	0.52
6:s1:47:PHE:HZ	6:s1:126:VAL:HG11	1.74	0.52
5:o2:209:TYR:HB3	5:r2:180:LEU:HD12	1.92	0.52
5:r2:289:LYS:O	5:r2:293:GLU:HB3	2.10	0.52
7:W3:181:THR:HG23	7:W3:183:VAL:HG12	1.91	0.52
7:X3:80:VAL:N	7:X3:153:ASP:O	2.42	0.52
7:t3:110:PRO:HG3	7:t3:115:VAL:HG13	1.92	0.52
7:z3:99:GLN:O	7:z3:142:ASN:ND2	2.43	0.52
7:73:35:ASN:OD1	7:73:36:GLY:N	2.42	0.52
5:k5:210:MET:SD	5:k5:239:HIS:ND1	2.76	0.52
6:l5:56:ASP:O	6:l5:57:ALA:C	2.53	0.52
5:n5:247:TYR:N	5:n5:447:ALA:O	2.34	0.52
5:o5:190:CYS:SG	5:o5:385:CYS:N	2.83	0.52
1:a6:27:ARG:HG2	5:n6:311:VAL:HG13	1.92	0.52
1:d6:24:PHE:HB2	5:o6:357:ASP:HA	1.92	0.52
5:g6:220:GLU:HB3	5:h6:280:ASN:HD21	1.74	0.52
5:g6:223:CYS:HB3	5:h6:292:ASN:HA	1.91	0.52
5:h6:218:LEU:HB3	5:k6:445:PHE:HZ	1.75	0.52
5:n6:241:GLU:HG2	5:n6:242:GLY:H	1.75	0.52
5:g7:329:PHE:CG	5:g7:462:LEU:HD13	2.45	0.52
5:n7:286:MET:HB2	5:n7:287:ILE:HD12	1.90	0.52
5:r7:396:GLY:HA2	5:r7:403:PHE:HD1	1.75	0.52
6:v7:62:PRO:HB3	6:v7:110:TRP:CG	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AD:214:LEU:HA	8:AD:217:ILE:HG12	1.92	0.52
8:AH:154:PHE:HA	8:AH:160:VAL:HA	1.93	0.52
10:AZ:47:ASN:HB2	10:AV:105:VAL:HA	1.92	0.52
2:a:50:PRO:HB2	2:a:133:GLY:CA	2.40	0.51
2:a:51:GLU:HB3	2:a:135:ARG:CZ	2.40	0.51
2:a:73:PRO:HB3	2:a:77:ARG:HB3	1.92	0.51
2:k:167:ARG:HH21	2:k:169:THR:HG22	1.73	0.51
2:m:71:ALA:HB3	2:m:130:TYR:CE2	2.44	0.51
3:H:17:SER:OG	9:AS:48:THR:HG23	2.10	0.51
1:e1:19:VAL:HG12	5:r1:394:THR:HA	1.92	0.51
5:g1:196:LEU:HD21	5:g1:381:ARG:HD3	1.92	0.51
7:V3:154:PRO:O	7:V3:155:THR:HG22	2.10	0.51
7:x3:21:SER:HB2	7:C3:49:ARG:HB3	1.92	0.51
7:13:210:ASP:OD1	7:13:214:ASN:N	2.42	0.51
5:g5:291:VAL:HG22	5:g5:292:ASN:ND2	2.25	0.51
5:g5:340:ALA:O	5:g5:379:ARG:NH1	2.43	0.51
6:l5:5:VAL:HG11	6:m5:133:LYS:HD2	1.92	0.51
5:n5:218:LEU:HD11	5:o5:249:GLY:HA3	1.92	0.51
8:AD:242:LYS:HE2	8:AD:291:ASN:HB2	1.92	0.51
8:AF:252:ASP:HB2	8:AF:255:GLN:HG2	1.92	0.51
8:AH:348:PRO:HA	8:AH:352:THR:HG22	1.92	0.51
3:AP:49:GLN:O	3:AP:50:ASP:HB2	2.09	0.51
3:AN:19:VAL:HA	3:AN:25:LEU:HD13	1.91	0.51
10:Aa:39:THR:CG2	10:AY:109:GLU:HG3	2.40	0.51
3:AO:17:SER:H	9:AX:49:LYS:NZ	2.07	0.51
2:a:50:PRO:HG2	2:a:135:ARG:CB	2.39	0.51
2:l:58:ILE:HG23	2:l:126:LEU:HG	1.91	0.51
2:i:59:ARG:NH1	2:i:60:LEU:O	2.43	0.51
2:i:116:ASP:HB3	2:i:121:ASP:HB3	1.92	0.51
2:i:134:ARG:HG3	2:i:135:ARG:H	1.75	0.51
2:j:59:ARG:O	2:j:61:LYS:NZ	2.41	0.51
3:H:97:SER:OG	3:AN:44:ALA:HB1	2.10	0.51
5:g1:224:ASP:OD2	7:N3:180:ARG:NH1	2.43	0.51
5:n1:218:LEU:HD12	5:o1:445:PHE:CZ	2.45	0.51
5:o2:297:TRP:HB2	5:o2:303:PHE:HE2	1.75	0.51
7:Y3:38:MET:HG2	7:Y3:185:LYS:HG2	1.91	0.51
7:Y3:79:LYS:HD2	7:Y3:153:ASP:HB2	1.92	0.51
7:h3:209:ILE:HD11	7:h3:213:GLY:HA2	1.92	0.51
7:23:62:ASP:N	7:23:62:ASP:OD1	2.43	0.51
7:A3:7:ASP:OD2	7:A3:9:ARG:NH1	2.44	0.51
1:d7:30:ALA:HB3	1:d7:31:PRO:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t7:33:PHE:CD1	6:t7:130:VAL:HG12	2.45	0.51
8:AB:251:LEU:HD21	8:AB:282:THR:HB	1.91	0.51
8:AB:351:LEU:HB3	8:AB:371:PHE:CZ	2.45	0.51
8:AC:18:PRO:C	8:AC:20:ALA:N	2.67	0.51
8:AE:359:SER:HB2	8:AE:368:ARG:HB2	1.91	0.51
8:AL:363:CYS:SG	8:AL:364:GLY:N	2.83	0.51
2:n:17:LYS:HE3	3:AO:106:ARG:CD	2.40	0.51
5:o1:229:ALA:HB1	5:r1:249:GLY:HA2	1.92	0.51
6:v1:15:TRP:HB3	6:v1:128:ILE:HB	1.93	0.51
5:g2:334:PRO:HA	5:h2:346:GLN:HE22	1.74	0.51
5:r2:364:PHE:HB3	5:r2:371:PHE:CE1	2.45	0.51
7:M3:217:VAL:HG12	7:N3:34:VAL:HG23	1.92	0.51
7:Q3:87:THR:HG22	7:Q3:89:SER:H	1.75	0.51
7:U3:167:PRO:HA	7:U3:191:SER:HB3	1.92	0.51
7:Z3:61:ILE:HG21	7:Z3:168:VAL:HG23	1.93	0.51
7:i3:167:PRO:HA	7:i3:191:SER:HB3	1.92	0.51
7:l3:172:ALA:O	7:l3:175:ARG:NH1	2.44	0.51
7:o3:79:LYS:HE3	7:o3:155:THR:HA	1.92	0.51
7:43:133:GLY:H	7:43:152:VAL:HG23	1.74	0.51
7:A3:139:PHE:HE1	7:A3:148:TYR:HB2	1.76	0.51
7:F3:172:ALA:O	7:F3:175:ARG:NH1	2.43	0.51
1:e5:19:VAL:HG12	5:o5:309:LEU:HD11	1.92	0.51
5:h5:212:ILE:HG22	5:h5:237:ILE:HG23	1.93	0.51
6:p5:41:LEU:HG	6:p5:42:THR:H	1.75	0.51
5:r5:308:THR:HG22	5:r5:464:ILE:HA	1.92	0.51
6:s5:64:PRO:HG2	6:s5:66:ILE:HD11	1.92	0.51
6:v6:46:THR:HA	6:v6:88:THR:HA	1.93	0.51
8:AG:108:MET:SD	8:AH:205:MET:HG3	2.51	0.51
8:AH:35:VAL:HG23	8:AH:37:LYS:HG3	1.91	0.51
8:AJ:400:GLU:HA	8:AJ:403:GLU:HG3	1.92	0.51
9:AS:130:GLU:HG3	9:AT:67:THR:HG22	1.90	0.51
2:p:154:TRP:CZ2	2:p:187:ILE:HD11	2.46	0.51
2:q:77:ARG:HG3	2:q:78:PRO:HD2	1.92	0.51
2:h:80:VAL:HG11	7:X3:47:PRO:HA	1.93	0.51
2:j:7:LEU:HD11	2:j:149:LEU:HD21	1.93	0.51
2:m:13:ARG:NH2	2:m:26:ASP:OD2	2.43	0.51
2:m:58:ILE:HG21	2:m:81:PHE:HE2	1.76	0.51
5:g1:217:GLN:NE2	5:g1:220:GLU:OE2	2.44	0.51
5:n1:342:SER:N	5:n1:379:ARG:O	2.43	0.51
6:u1:58:ASP:HB3	6:u1:61:VAL:HG12	1.92	0.51
5:g2:207:PHE:HB2	5:h2:180:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k2:297:TRP:CD1	5:k2:297:TRP:H	2.27	0.51
7:y3:38:MET:HG2	7:y3:185:LYS:HG2	1.91	0.51
7:53:154:PRO:O	7:53:155:THR:HG22	2.10	0.51
6:t5:25:VAL:HG12	6:t5:110:TRP:HA	1.92	0.51
6:l6:24:LYS:HD3	6:l6:110:TRP:CE2	2.44	0.51
6:l6:67:ARG:NH1	6:l6:84:LEU:HB3	2.25	0.51
6:s6:10:PRO:HA	6:t6:34:THR:HG21	1.93	0.51
5:n7:223:CYS:SG	5:n7:224:ASP:N	2.83	0.51
8:AK:292:ASP:OD1	8:AK:292:ASP:N	2.44	0.51
2:p:69:LEU:HD21	2:p:130:TYR:CE2	2.46	0.51
5:k1:351:TYR:HE2	5:k1:396:GLY:HA2	1.76	0.51
6:s1:74:CYS:SG	6:s1:75:ASP:N	2.84	0.51
5:k2:329:PHE:O	5:k2:460:ARG:NH2	2.43	0.51
5:n2:294:PRO:HG3	5:n2:450:GLY:HA2	1.92	0.51
7:k3:205:ARG:HD2	7:l3:107:LEU:HG	1.92	0.51
7:v3:28:SER:OG	7:v3:230:GLY:OXT	2.20	0.51
7:O3:172:ALA:O	7:O3:175:ARG:NH1	2.44	0.51
7:A3:154:PRO:O	7:A3:155:THR:HG22	2.11	0.51
7:D3:35:ASN:OD1	7:D3:36:GLY:N	2.42	0.51
8:AE:69:GLN:HE21	8:AE:111:ALA:HB1	1.76	0.51
10:AZ:39:THR:CG2	10:AV:109:GLU:HG3	2.40	0.51
9:AS:13:LEU:H	9:AS:13:LEU:HD12	1.75	0.51
2:a:35:ALA:O	2:a:39:ALA:HB2	2.11	0.51
2:p:43:TYR:CD2	2:p:44:THR:HG23	2.46	0.51
2:i:136:CYS:O	2:i:138:ASN:ND2	2.44	0.51
2:j:71:ALA:HB3	2:j:130:TYR:CE2	2.45	0.51
6:v1:89:LEU:HD12	6:v1:90:PRO:HD2	1.93	0.51
5:o2:208:THR:HB	5:o2:241:GLU:HG2	1.92	0.51
6:p2:2:ASN:ND2	6:q2:102:THR:OG1	2.43	0.51
5:r2:306:PHE:HE2	5:r2:460:ARG:HD3	1.75	0.51
7:L3:167:PRO:HA	7:L3:191:SER:HB3	1.93	0.51
7:O3:209:ILE:HD11	7:O3:213:GLY:HA2	1.93	0.51
7:X3:83:VAL:HG23	7:X3:126:THR:HG22	1.93	0.51
7:s3:25:GLU:OE1	7:s3:25:GLU:N	2.44	0.51
7:v3:190:VAL:HG11	7:v3:226:ILE:HD13	1.93	0.51
5:h5:212:ILE:HA	5:h5:237:ILE:HA	1.91	0.51
6:l5:62:PRO:HB3	6:l5:110:TRP:CD2	2.45	0.51
5:h6:204:ARG:HH11	8:AI:42:TYR:HE2	1.58	0.51
5:n6:332:SER:O	5:n6:460:ARG:NH1	2.43	0.51
5:n6:440:CYS:SG	5:n6:441:VAL:N	2.83	0.51
5:o6:281:ARG:HH21	5:o6:449:ASP:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r6:193:LEU:HD13	5:r6:381:ARG:HD3	1.92	0.51
5:k7:210:MET:SD	5:k7:239:HIS:ND1	2.73	0.51
6:p7:127:GLN:NE2	6:q7:13:ILE:HB	2.22	0.51
6:v7:89:LEU:HD12	6:v7:90:PRO:HD2	1.91	0.51
8:AB:153:LYS:HE3	8:AB:162:SER:OG	2.10	0.51
8:AB:347:GLU:HB3	8:AB:348:PRO:HD3	1.92	0.51
8:AD:59:ARG:HH11	8:AE:312:ASN:ND2	2.08	0.51
8:AD:266:THR:HG21	8:AE:241:SER:HB3	1.93	0.51
8:AK:28:ARG:HG3	8:AK:29:ARG:N	2.22	0.51
8:AK:55:PRO:HA	8:AL:216:ALA:HB1	1.93	0.51
8:AK:347:GLU:HB2	8:AK:348:PRO:HD3	1.93	0.51
9:AS:130:GLU:OE1	9:AS:152:ASN:ND2	2.43	0.51
2:l:77:ARG:HD3	2:l:131:VAL:HG11	1.92	0.51
5:g1:220:GLU:HA	5:h1:247:TYR:CE1	2.45	0.51
5:n1:240:LEU:HD12	6:p1:137:ARG:H	1.74	0.51
6:q1:73:PHE:HB2	6:q1:76:THR:HG23	1.92	0.51
6:v2:30:GLN:HB2	6:v2:133:LYS:HB3	1.92	0.51
7:L3:190:VAL:HG21	7:L3:226:ILE:HD13	1.92	0.51
7:M3:154:PRO:O	7:M3:155:THR:HG22	2.11	0.51
7:N3:35:ASN:OD1	7:N3:36:GLY:N	2.40	0.51
7:N3:94:ASN:ND2	7:N3:96:GLU:O	2.44	0.51
7:R3:167:PRO:HA	7:R3:191:SER:HB3	1.92	0.51
7:h3:38:MET:HG2	7:h3:185:LYS:HG2	1.91	0.51
7:r3:210:ASP:HB3	7:r3:216:PHE:HE2	1.75	0.51
5:r5:281:ARG:HE	5:r5:449:ASP:CG	2.19	0.51
5:n6:286:MET:HB2	5:n6:287:ILE:HD12	1.92	0.51
1:d7:18:LEU:HD11	5:n7:328:ARG:HG3	1.93	0.51
5:h7:207:PHE:O	5:h7:241:GLU:HB2	2.11	0.51
5:n7:193:LEU:HD11	5:n7:343:VAL:HG11	1.92	0.51
8:AD:293:LEU:HD12	8:AD:296:ILE:HG21	1.92	0.51
8:AF:168:GLU:HG2	8:AF:169:ALA:H	1.75	0.51
8:AI:122:ALA:O	8:AI:212:THR:OG1	2.27	0.51
8:AJ:131:VAL:O	8:AJ:191:ASN:ND2	2.29	0.51
9:AS:41:ASP:O	9:AS:45:THR:OG1	2.20	0.51
2:q:59:ARG:NH2	2:q:61:LYS:O	2.44	0.51
2:h:186:VAL:HG12	2:h:191:GLN:HG3	1.93	0.51
2:k:77:ARG:HD3	2:k:131:VAL:CG1	2.41	0.51
2:m:66:LYS:HB2	8:AB:271:ASP:CG	2.35	0.51
3:I:70:ASN:N	3:I:108:MET:HE2	2.26	0.51
1:d1:9:LEU:HD21	6:q1:98:PHE:HD1	1.76	0.51
5:h1:203:SER:OG	5:h1:204:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k2:205:SER:OG	5:k2:424:LYS:NZ	2.35	0.51
7:L3:74:ALA:HB2	7:L3:91:LEU:HD11	1.92	0.51
7:P3:100:VAL:HG12	7:P3:142:ASN:HD21	1.75	0.51
7:R3:56:LYS:NZ	6:m7:81:GLU:O	2.43	0.51
7:a3:48:LEU:HD23	7:b3:1:MET:HE3	1.92	0.51
7:q3:10:ASN:ND2	7:r3:1:MET:O	2.44	0.51
7:z3:27:ILE:HB	7:z3:224:ILE:HD13	1.92	0.51
7:33:88:LEU:N	7:33:121:GLY:O	2.41	0.51
7:43:35:ASN:OD1	7:43:36:GLY:N	2.42	0.51
7:C3:35:ASN:OD1	7:C3:36:GLY:N	2.43	0.51
7:F3:88:LEU:N	7:F3:121:GLY:O	2.44	0.51
7:G3:137:PHE:CE1	7:G3:148:TYR:HB3	2.46	0.51
5:g5:336:GLU:OE2	5:h5:188:ILE:HB	2.11	0.51
5:k5:274:GLN:HG2	5:k5:427:MET:SD	2.51	0.51
5:r5:291:VAL:HG22	5:r5:292:ASN:HD22	1.75	0.51
1:d6:19:VAL:HG12	5:n6:309:LEU:HD11	1.92	0.51
5:k6:431:GLN:HE22	5:k6:441:VAL:HG23	1.76	0.51
1:d7:32:SER:HG	5:r7:314:ASN:H	1.58	0.51
6:t7:41:LEU:HD11	6:t7:122:ASN:HB3	1.92	0.51
8:AB:55:PRO:HA	8:AC:216:ALA:HB1	1.93	0.51
8:AE:243:TRP:HE3	8:AE:263:ILE:HD11	1.76	0.51
8:AJ:204:ALA:HB3	8:AJ:208:ASP:HB2	1.92	0.51
8:AL:31:PHE:CE2	8:AL:207:PHE:HB3	2.45	0.51
10:AZ:25:ILE:C	10:AZ:27:PRO:HD3	2.36	0.51
1:g:24:PHE:O	1:g:25:ILE:HD13	2.11	0.51
2:a:38:GLU:O	2:a:39:ALA:C	2.54	0.51
2:p:99:ASN:HD21	8:AA:257:LYS:HE3	1.74	0.51
2:p:148:ILE:O	2:p:152:ILE:HG12	2.10	0.51
2:q:87:GLY:HA2	5:g1:224:ASP:HB3	1.93	0.51
2:j:82:TYR:HE2	2:j:127:MET:HE3	1.76	0.51
5:o2:365:GLY:O	5:o2:367:GLY:N	2.40	0.51
6:s2:62:PRO:HA	6:s2:110:TRP:HZ2	1.76	0.51
7:J3:154:PRO:O	7:J3:155:THR:HG22	2.11	0.51
7:N3:219:ILE:HD11	7:O3:30:ARG:HG2	1.91	0.51
7:R3:74:ALA:HB2	7:R3:91:LEU:HD11	1.91	0.51
7:g3:154:PRO:HG2	7:g3:156:THR:HG22	1.93	0.51
7:l3:59:PHE:HD1	7:l3:202:LEU:HD11	1.75	0.51
7:13:79:LYS:HE3	7:13:155:THR:HA	1.93	0.51
7:33:51:HIS:CD2	7:33:211:CYS:HA	2.46	0.51
7:53:35:ASN:OD1	7:53:36:GLY:N	2.40	0.51
5:o5:297:TRP:HB2	5:o5:303:PHE:HE2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p5:129:THR:HB	6:q5:13:ILE:HD11	1.93	0.51
5:r7:361:ARG:NH1	5:r7:366:ASP:OD2	2.43	0.51
8:AA:140:ASN:HD21	8:AB:16:PRO:C	2.19	0.51
8:AF:89:MET:HE3	8:AF:187:ARG:NH1	2.26	0.51
8:AI:229:ALA:HA	8:AI:232:ILE:HD12	1.93	0.51
8:AJ:37:LYS:HE2	8:AJ:152:GLN:HE22	1.76	0.51
8:AK:356:ASP:O	8:AK:360:MET:HG2	2.11	0.51
3:AM:1:MET:HE1	3:AM:6:ARG:HG2	1.92	0.51
10:AU:128:LEU:O	10:AU:129:PRO:C	2.51	0.51
3:AN:9:ARG:HH21	3:AN:34:GLN:HG2	1.75	0.51
1:e:8:PRO:HG2	1:e:11:GLN:HE21	1.76	0.51
2:k:9:LEU:HA	2:k:12:ILE:HD12	1.92	0.51
6:p1:80:SER:OG	6:p1:82:ASP:O	2.29	0.51
5:h2:199:GLN:HA	8:AE:29:ARG:HH21	1.75	0.51
6:v2:29:ASN:H	6:v2:134:GLY:HA3	1.75	0.51
7:L3:10:ASN:ND2	7:M3:1:MET:O	2.43	0.51
7:O3:200:TYR:HB2	7:O3:224:ILE:HG23	1.93	0.51
7:W3:166:THR:OG1	7:W3:168:VAL:O	2.25	0.51
7:r3:24:CYS:HB2	7:r3:223:ASP:OD2	2.11	0.51
7:t3:59:PHE:HD1	7:t3:202:LEU:HD11	1.75	0.51
7:w3:88:LEU:N	7:w3:121:GLY:O	2.44	0.51
7:83:206:GLN:OE1	7:83:207:VAL:N	2.44	0.51
7:93:38:MET:HE3	7:93:183:VAL:HG21	1.92	0.51
7:D3:139:PHE:HE1	7:D3:148:TYR:HB2	1.75	0.51
5:k5:347:ASN:OD1	5:k5:393:ASN:ND2	2.37	0.51
6:l5:71:VAL:HG21	5:r7:226:LYS:HB3	1.92	0.51
6:m5:58:ASP:HB3	6:m5:61:VAL:HG12	1.92	0.51
5:r6:334:PRO:HD3	5:r6:460:ARG:NH2	2.26	0.51
1:a7:19:VAL:HG12	5:n7:394:THR:HA	1.93	0.51
4:f7:24:ARG:HH11	5:k7:322:LEU:HD13	1.75	0.51
8:AE:93:GLN:HE22	8:AE:185:LYS:HE3	1.76	0.51
8:AI:235:ALA:O	8:AJ:230:ARG:NH1	2.44	0.51
9:AS:51:PRO:HG3	9:AS:87:LYS:HG2	1.92	0.51
2:a:80:VAL:HA	2:a:91:GLU:HA	1.93	0.50
2:b:59:ARG:O	2:b:61:LYS:HE2	2.11	0.50
2:l:184:GLY:O	2:m:150:LYS:NZ	2.43	0.50
2:i:16:ALA:HB1	2:i:156:ILE:HD13	1.94	0.50
3:H:1:MET:SD	3:H:1:MET:N	2.84	0.50
5:g1:250:VAL:HG12	5:g1:444:GLN:HA	1.93	0.50
6:u2:76:THR:HG23	6:u2:78:LEU:H	1.75	0.50
7:J3:167:PRO:HA	7:J3:191:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z3:210:ASP:OD1	7:Z3:214:ASN:N	2.44	0.50
7:g3:30:ARG:O	7:g3:33:GLU:HG3	2.11	0.50
7:g3:35:ASN:OD1	7:g3:36:GLY:N	2.42	0.50
7:13:210:ASP:HB3	7:13:216:PHE:HE2	1.75	0.50
7:93:71:VAL:HG11	7:93:141:ILE:HB	1.92	0.50
7:B3:71:VAL:HG11	7:B3:141:ILE:HB	1.93	0.50
5:g6:211:LYS:HG3	5:h6:184:VAL:HG23	1.92	0.50
5:h6:194:LEU:HD21	5:h6:281:ARG:HD3	1.91	0.50
6:q6:27:GLY:HA2	6:q6:137:ARG:HE	1.76	0.50
6:m7:78:LEU:HD12	6:m7:80:SER:H	1.75	0.50
8:AA:347:GLU:HB3	8:AA:348:PRO:HD3	1.92	0.50
8:AD:93:GLN:NE2	8:AD:94:ARG:HG3	2.26	0.50
8:AJ:225:ASP:HA	8:AJ:228:MET:HG2	1.93	0.50
8:AK:255:GLN:O	8:AK:258:GLU:HG3	2.12	0.50
2:b:198:ARG:HG3	8:AJ:253:ASP:OD2	2.11	0.50
2:j:18:CYS:HG	2:j:23:ARG:H	1.59	0.50
5:r2:345:HIS:CD2	5:r2:384:ASN:HA	2.46	0.50
6:s2:27:GLY:O	6:s2:136:THR:OG1	2.28	0.50
6:t2:25:VAL:HG12	6:t2:110:TRP:HA	1.92	0.50
7:V3:85:GLU:OE1	7:V3:85:GLU:N	2.44	0.50
7:s3:172:ALA:O	7:s3:175:ARG:NH1	2.44	0.50
7:y3:161:GLN:HE22	7:y3:164:PHE:HE2	1.59	0.50
7:B3:88:LEU:N	7:B3:121:GLY:O	2.43	0.50
5:n5:439:TRP:CH2	5:g7:248:ARG:HB2	2.46	0.50
6:q5:110:TRP:O	6:q5:111:ILE:HD13	2.11	0.50
5:r6:341:ARG:HA	5:r6:379:ARG:HB3	1.94	0.50
8:AB:167:ASP:N	8:AC:28:ARG:HH12	2.08	0.50
8:AC:217:ILE:HB	8:AC:309:ILE:HD12	1.92	0.50
8:AD:28:ARG:HG3	8:AD:29:ARG:N	2.22	0.50
8:AD:131:VAL:HG12	8:AD:142:ILE:HG12	1.94	0.50
8:AD:374:ASP:HA	8:AD:383:ARG:CZ	2.42	0.50
8:AF:282:THR:HG22	8:AF:284:VAL:HG13	1.93	0.50
10:Aa:105:VAL:HG22	10:Aa:106:GLU:HG2	1.94	0.50
9:AW:17:ALA:HB2	9:AW:55:VAL:HG11	1.92	0.50
2:a:135:ARG:O	2:a:136:CYS:C	2.53	0.50
2:b:61:LYS:O	2:b:66:LYS:N	2.44	0.50
2:l:57:PRO:O	2:m:95:ARG:NH1	2.37	0.50
2:q:78:PRO:HB2	2:q:91:GLU:HB2	1.94	0.50
2:j:85:GLY:O	2:j:110:ARG:HA	2.11	0.50
2:m:53:THR:HA	2:m:131:VAL:HA	1.92	0.50
5:h2:207:PHE:O	5:h2:241:GLU:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h2:431:GLN:NE2	8:AD:29:ARG:HH12	2.09	0.50
5:r2:391:GLU:H	5:r2:395:LYS:HB2	1.76	0.50
6:u2:15:TRP:HE3	6:u2:20:SER:HB2	1.76	0.50
7:X3:132:THR:HA	7:X3:152:VAL:HG23	1.92	0.50
7:s3:154:PRO:O	7:s3:155:THR:HG22	2.11	0.50
7:33:51:HIS:HD2	7:33:211:CYS:HA	1.76	0.50
7:53:153:ASP:HA	7:53:159:LEU:HD23	1.93	0.50
7:73:88:LEU:N	7:73:121:GLY:O	2.44	0.50
7:73:118:GLY:N	7:73:122:ALA:O	2.34	0.50
7:83:154:PRO:O	7:83:155:THR:HG22	2.12	0.50
7:E3:88:LEU:N	7:E3:121:GLY:O	2.40	0.50
6:t6:91:GLU:HG3	6:t6:92:THR:H	1.75	0.50
5:g7:361:ARG:HB3	5:h7:361:ARG:HH21	1.75	0.50
5:h7:207:PHE:HA	5:k7:178:GLN:HB3	1.94	0.50
6:t7:28:PHE:HA	6:t7:135:ALA:H	1.77	0.50
6:v7:47:PHE:HB2	6:v7:87:VAL:HG23	1.93	0.50
8:AE:240:ASN:ND2	8:AF:234:SER:OG	2.44	0.50
8:AF:126:ARG:HG3	8:AF:195:MET:HE1	1.93	0.50
8:AH:372:ASP:HB3	8:AH:374:ASP:OD1	2.11	0.50
8:AH:373:ARG:O	8:AH:383:ARG:NH2	2.45	0.50
8:AL:359:SER:OG	8:AL:368:ARG:HB2	2.11	0.50
10:AZ:50:LEU:HD12	10:AZ:54:TYR:HB3	1.94	0.50
2:a:142:ALA:O	2:a:146:ILE:HD12	2.11	0.50
2:b:149:LEU:HA	2:b:152:ILE:HG22	1.92	0.50
2:n:161:ASP:OD1	2:n:162:GLU:N	2.44	0.50
2:i:77:ARG:HG3	2:i:78:PRO:HD2	1.93	0.50
2:j:41:GLU:HA	2:j:44:THR:HG22	1.93	0.50
3:H:118:SER:OG	3:H:120:ASP:OD2	2.24	0.50
3:I:44:ALA:HB1	3:AM:97:SER:OG	2.11	0.50
5:k1:332:SER:OG	5:k1:460:ARG:NH2	2.44	0.50
6:v1:132:MET:N	6:v1:132:MET:SD	2.85	0.50
5:h2:287:ILE:HA	5:h2:299:THR:HG23	1.93	0.50
5:k2:197:TYR:OH	5:k2:297:TRP:NE1	2.42	0.50
5:n2:196:LEU:HD22	5:n2:341:ARG:HD2	1.93	0.50
7:J3:208:ALA:HB3	7:J3:216:PHE:HB2	1.93	0.50
7:U3:210:ASP:OD1	7:U3:214:ASN:N	2.42	0.50
7:k3:154:PRO:HG2	7:k3:156:THR:HG22	1.94	0.50
7:x3:59:PHE:HE2	7:x3:175:ARG:HE	1.60	0.50
7:53:139:PHE:HE1	7:53:148:TYR:HB2	1.76	0.50
7:D3:154:PRO:O	7:D3:155:THR:HG22	2.10	0.50
7:G3:83:VAL:HG12	7:G3:126:THR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l5:107:ASN:HA	5:g7:291:VAL:HG21	1.93	0.50
5:o5:200:ILE:HG21	5:r5:180:LEU:HD11	1.94	0.50
6:p5:46:THR:HA	6:p5:88:THR:HA	1.93	0.50
6:p5:52:HIS:ND1	6:p5:64:PRO:O	2.42	0.50
5:k6:226:LYS:HD2	6:p6:71:VAL:HG21	1.93	0.50
5:r6:208:THR:HA	5:r6:241:GLU:HA	1.93	0.50
6:s6:36:LYS:NZ	6:s6:37:THR:O	2.41	0.50
6:s6:50:PHE:HE2	6:s6:114:ALA:HB3	1.76	0.50
5:k7:217:GLN:NE2	5:k7:219:GLY:O	2.42	0.50
5:r7:253:PHE:HZ	5:r7:269:MET:HG3	1.76	0.50
8:AB:52:MET:HE2	8:AC:201:ILE:HG13	1.93	0.50
8:AE:151:LYS:O	8:AE:164:GLN:N	2.36	0.50
8:AG:140:ASN:HD21	8:AH:16:PRO:HA	1.76	0.50
8:AG:201:ILE:H	8:AG:201:ILE:HD12	1.76	0.50
8:AG:225:ASP:HA	8:AG:228:MET:HE2	1.93	0.50
8:AJ:347:GLU:HA	8:AJ:351:LEU:HB2	1.93	0.50
3:AO:95:VAL:HG23	3:AO:110:ILE:HG23	1.93	0.50
10:Ab:37:LEU:HB3	10:Ab:91:LYS:HZ1	1.77	0.50
2:h:187:ILE:HD11	2:j:163:VAL:HG23	1.94	0.50
2:i:84:GLY:HA2	2:i:124:SER:O	2.11	0.50
2:j:13:ARG:NE	2:j:29:LEU:HD22	2.25	0.50
2:k:167:ARG:HH11	2:k:179:GLY:C	2.20	0.50
5:g1:248:ARG:HB2	5:n2:439:TRP:CH2	2.47	0.50
6:u1:15:TRP:HB3	6:u1:128:ILE:HB	1.93	0.50
6:u1:30:GLN:HG3	6:v1:2:ASN:HA	1.94	0.50
5:r2:361:ARG:NH1	5:r2:366:ASP:OD2	2.45	0.50
6:s2:10:PRO:HA	6:t2:34:THR:HG21	1.94	0.50
6:t2:91:GLU:HG3	6:t2:92:THR:H	1.77	0.50
7:X3:190:VAL:HG21	7:X3:226:ILE:HD13	1.94	0.50
7:a3:108:ASN:HB2	7:a3:138:TRP:CD1	2.47	0.50
7:c3:29:ALA:HB1	7:c3:190:VAL:HG21	1.94	0.50
7:i3:133:GLY:H	7:i3:152:VAL:HG23	1.77	0.50
7:k3:209:ILE:HD11	7:k3:213:GLY:HA2	1.93	0.50
7:r3:29:ALA:HB1	7:r3:190:VAL:HG21	1.93	0.50
7:t3:21:SER:OG	7:t3:22:CYS:N	2.44	0.50
7:u3:138:TRP:CH2	7:u3:191:SER:HB2	2.47	0.50
7:y3:171:PRO:HD2	7:y3:187:VAL:HG13	1.91	0.50
1:a5:19:VAL:HG12	5:n5:394:THR:HA	1.92	0.50
6:l5:57:ALA:O	6:l5:59:PRO:HD3	2.11	0.50
5:o5:297:TRP:CD1	5:o5:297:TRP:H	2.29	0.50
6:u5:15:TRP:HE3	6:u5:20:SER:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b6:11:GLN:OE1	1:b6:11:GLN:N	2.43	0.50
5:g6:329:PHE:CD1	5:g6:462:LEU:HD12	2.47	0.50
5:k6:195:ASP:OD2	5:k6:381:ARG:NH2	2.45	0.50
5:g7:336:GLU:CD	5:h7:384:ASN:HD21	2.19	0.50
5:k7:297:TRP:CD1	5:k7:297:TRP:H	2.29	0.50
6:p7:30:GLN:HG2	6:q7:2:ASN:HA	1.94	0.50
6:p7:123:ALA:O	6:p7:126:VAL:HG12	2.11	0.50
8:AC:101:LEU:HD11	8:AC:369:VAL:HG12	1.93	0.50
8:AD:245:VAL:HG22	8:AD:286:VAL:HG23	1.93	0.50
8:AF:140:ASN:HD21	8:AG:16:PRO:C	2.18	0.50
8:AI:154:PHE:HA	8:AI:160:VAL:HA	1.92	0.50
8:AJ:131:VAL:HG21	8:AJ:192:TYR:CZ	2.47	0.50
3:AM:15:GLN:OE1	3:AM:80:TRP:NE1	2.43	0.50
2:a:134:ARG:HA	2:a:134:ARG:NH1	2.26	0.50
2:l:38:GLU:HA	2:l:41:GLU:HB3	1.93	0.50
2:l:191:GLN:HG3	2:l:195:PHE:CE1	2.46	0.50
2:l:192:ASP:HA	2:l:195:PHE:HD1	1.76	0.50
2:o:152:ILE:O	2:o:156:ILE:HG13	2.11	0.50
2:j:187:ILE:HD12	2:j:187:ILE:H	1.76	0.50
2:m:69:LEU:O	2:m:99:ASN:ND2	2.44	0.50
5:k2:205:SER:HG	5:k2:424:LYS:HZ2	1.57	0.50
7:S3:154:PRO:O	7:S3:155:THR:HG22	2.11	0.50
7:Z3:172:ALA:O	7:Z3:175:ARG:NH1	2.39	0.50
7:b3:38:MET:HG2	7:b3:185:LYS:HG2	1.94	0.50
7:i3:172:ALA:O	7:i3:175:ARG:NH1	2.43	0.50
7:k3:190:VAL:HG11	7:k3:226:ILE:HD13	1.94	0.50
1:a6:4:LEU:O	1:a6:5:ASN:OD1	2.30	0.50
1:d6:27:ARG:HH11	5:o6:322:LEU:HD21	1.75	0.50
6:s6:46:THR:HG23	6:s6:116:ALA:HB3	1.93	0.50
1:e7:21:PRO:O	5:o7:324:GLN:NE2	2.45	0.50
5:g7:238:ARG:HH21	5:g7:240:LEU:HD21	1.75	0.50
6:q7:67:ARG:HD3	6:q7:84:LEU:HD13	1.93	0.50
6:s7:113:ILE:HD12	6:s7:128:ILE:HG21	1.94	0.50
8:AG:214:LEU:HA	8:AG:217:ILE:HG12	1.94	0.50
8:AI:39:VAL:HG23	8:AI:40:VAL:HG13	1.94	0.50
8:AK:90:SER:HG	8:AK:93:GLN:H	1.60	0.50
8:AL:339:LYS:HZ3	8:AL:378:ALA:HB1	1.76	0.50
9:AR:11:VAL:HG22	9:AR:151:GLN:HE22	1.77	0.50
9:AT:28:ILE:HG22	9:AT:51:PRO:HB2	1.93	0.50
2:a:191:GLN:HA	2:a:194:TRP:HD1	1.77	0.50
2:n:129:THR:HG21	7:M3:43:ALA:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:p:95:ARG:NH1	2:i:56:GLU:OE2	2.45	0.50
2:q:41:GLU:CD	2:q:48:PHE:HB2	2.36	0.50
2:j:61:LYS:HB3	8:AG:271:ASP:HB3	1.93	0.50
2:j:82:TYR:CE2	2:j:127:MET:HE3	2.46	0.50
3:I:97:SER:O	3:I:111:ARG:N	2.41	0.50
1:b1:19:VAL:HG23	5:g1:398:THR:HB	1.93	0.50
5:o1:344:MET:HE3	5:o1:349:PHE:HB2	1.94	0.50
5:g2:348:VAL:O	5:g2:352:LEU:HD12	2.12	0.50
5:h2:253:PHE:O	5:h2:440:CYS:HB2	2.11	0.50
7:M3:27:ILE:HD13	7:M3:222:TYR:HB3	1.93	0.50
7:W3:75:PHE:CE1	7:W3:162:PRO:HD2	2.47	0.50
7:c3:38:MET:HG2	7:c3:185:LYS:HG2	1.93	0.50
7:q3:88:LEU:N	7:q3:121:GLY:O	2.45	0.50
7:s3:71:VAL:HG12	7:s3:92:PHE:HB2	1.94	0.50
7:83:110:PRO:HG3	7:83:115:VAL:HG23	1.94	0.50
7:83:154:PRO:HG2	7:83:156:THR:HG22	1.94	0.50
7:03:88:LEU:HA	7:03:91:LEU:HD13	1.93	0.50
5:k5:432:TYR:HD2	5:k5:442:LYS:HD2	1.75	0.50
5:g6:422:VAL:HG23	5:g6:451:GLY:HA2	1.93	0.50
5:r6:254:ASN:HD21	5:r6:256:LYS:HE2	1.76	0.50
6:l7:34:THR:HG21	6:m7:11:SER:H	1.75	0.50
6:q7:70:GLU:HB3	6:q7:85:ALA:HB2	1.93	0.50
6:t7:35:PHE:HD1	6:t7:128:ILE:HG12	1.77	0.50
8:AC:223:LEU:HD22	8:AC:305:GLN:HE21	1.74	0.50
8:AJ:242:LYS:HE3	8:AJ:288:GLU:HB3	1.94	0.50
8:AK:149:PHE:HE2	8:AL:25:ILE:HD12	1.77	0.50
2:l:91:GLU:OE2	2:l:91:GLU:N	2.42	0.50
2:l:167:ARG:NH1	2:i:170:LEU:HG	2.26	0.50
5:h1:208:THR:HA	5:h1:241:GLU:HA	1.94	0.50
5:k1:329:PHE:O	5:k1:460:ARG:NH2	2.44	0.50
6:v1:62:PRO:HB3	6:v1:110:TRP:CG	2.46	0.50
5:g2:220:GLU:HA	5:h2:247:TYR:CE1	2.47	0.50
6:m2:80:SER:O	6:m2:81:GLU:HG3	2.11	0.50
7:N3:136:ARG:HG2	7:N3:149:VAL:HG12	1.93	0.50
7:h3:21:SER:OG	7:h3:22:CYS:N	2.45	0.50
7:m3:88:LEU:N	7:m3:121:GLY:O	2.44	0.50
7:t3:88:LEU:N	7:t3:121:GLY:O	2.45	0.50
7:v3:59:PHE:HB3	7:v3:202:LEU:HD11	1.94	0.50
7:F3:88:LEU:HA	7:F3:91:LEU:HD13	1.94	0.50
7:G3:138:TRP:CE3	7:G3:147:GLU:HB3	2.47	0.50
5:h5:365:GLY:O	5:h5:367:GLY:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n5:397:GLY:O	5:n5:398:THR:HG22	2.12	0.50
6:p5:67:ARG:HG2	6:p5:84:LEU:HB3	1.94	0.50
5:r5:386:LEU:HG	5:r5:408:PHE:HE1	1.77	0.50
6:u5:71:VAL:HG12	6:u5:73:PHE:H	1.77	0.50
5:r6:308:THR:HG22	5:r6:464:ILE:HA	1.93	0.50
10:AZ:25:ILE:HG22	10:AZ:27:PRO:HD3	1.94	0.50
10:AV:117:MET:HA	10:AV:117:MET:HE3	1.94	0.50
2:l:57:PRO:HG3	2:l:127:MET:HG3	1.93	0.50
2:l:199:ARG:HH22	8:AB:249:ARG:HD3	1.75	0.50
2:j:13:ARG:NH2	2:j:26:ASP:OD1	2.45	0.50
2:j:15:HIS:CD2	2:j:149:LEU:HB3	2.47	0.50
2:j:36:ALA:HB2	2:j:151:LEU:HD22	1.93	0.50
3:I:106:ARG:HG3	3:I:107:TYR:CE2	2.47	0.50
6:u1:9:PHE:CE1	6:u1:133:LYS:HA	2.47	0.50
5:g2:220:GLU:HB3	5:h2:280:ASN:HD21	1.75	0.50
5:o2:297:TRP:CD1	5:o2:297:TRP:H	2.30	0.50
7:K3:35:ASN:OD1	7:K3:36:GLY:N	2.41	0.50
7:M3:136:ARG:HG2	7:M3:149:VAL:HG22	1.94	0.50
7:c3:61:ILE:HG21	7:c3:168:VAL:HG13	1.94	0.50
7:i3:154:PRO:O	7:i3:155:THR:HG22	2.11	0.50
7:83:78:THR:HG21	7:83:84:PHE:HB2	1.93	0.50
5:o5:328:ARG:NH1	5:r5:393:ASN:OD1	2.45	0.50
6:s5:46:THR:HA	6:s5:88:THR:HA	1.93	0.50
6:u5:67:ARG:HD3	6:u5:84:LEU:HD12	1.94	0.50
5:k6:329:PHE:O	5:k6:460:ARG:NH2	2.42	0.50
5:r6:289:LYS:HD3	5:r6:290:GLY:H	1.77	0.50
5:o7:218:LEU:HD21	5:r7:273:ALA:HA	1.93	0.50
5:o7:342:SER:OG	5:o7:379:ARG:O	2.28	0.50
8:AE:92:SER:HA	8:AE:95:LYS:HE2	1.93	0.50
9:AW:63:SER:HB2	9:AW:75:ASN:ND2	2.27	0.50
10:AY:81:GLY:HA2	10:AY:104:VAL:HB	1.93	0.50
2:b:6:LEU:HB2	2:b:140:VAL:HG11	1.93	0.49
2:l:77:ARG:HG3	2:l:78:PRO:HD2	1.93	0.49
2:o:58:ILE:HG23	2:o:126:LEU:HG	1.94	0.49
5:g1:253:PHE:HZ	5:g1:269:MET:HE3	1.76	0.49
6:s1:48:ASN:CG	6:s1:67:ARG:HH12	2.20	0.49
5:g2:185:ASP:HA	5:r2:212:ILE:CG2	2.42	0.49
5:g2:248:ARG:HB2	5:n7:439:TRP:CH2	2.47	0.49
6:u2:100:ALA:HB1	6:v2:6:GLY:HA3	1.94	0.49
7:L3:48:LEU:HD22	7:M3:1:MET:HE3	1.94	0.49
7:Y3:208:ALA:HB3	7:Y3:216:PHE:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:153:ASP:HA	7:D3:159:LEU:HD23	1.93	0.49
1:a6:26:CYS:SG	1:a6:27:ARG:N	2.83	0.49
5:h6:431:GLN:HE22	5:h6:441:VAL:HB	1.77	0.49
5:o6:189:GLU:HG2	5:o6:190:CYS:N	2.27	0.49
8:AA:201:ILE:HD11	8:AL:52:MET:HE3	1.93	0.49
8:AD:290:LYS:HG3	8:AD:291:ASN:N	2.27	0.49
8:AF:90:SER:H	8:AF:93:GLN:HE21	1.59	0.49
8:AF:147:ILE:H	8:AF:147:ILE:HD12	1.77	0.49
8:AF:194:PHE:CZ	8:AF:362:LEU:HD21	2.47	0.49
10:AU:39:THR:OG1	10:AZ:109:GLU:HB3	2.11	0.49
10:AU:46:THR:HG23	10:AU:60:SER:OG	2.11	0.49
3:AO:79:ALA:O	3:AO:95:VAL:HG12	2.11	0.49
2:b:43:TYR:CD1	8:AJ:252:ASP:HA	2.48	0.49
2:l:21:ASN:OD1	3:I:106:ARG:NH1	2.44	0.49
2:m:198:ARG:HG2	8:AC:253:ASP:OD2	2.12	0.49
5:g1:245:TYR:CE1	5:g1:292:ASN:HA	2.47	0.49
5:k1:234:PRO:HB3	5:n1:269:MET:HE1	1.94	0.49
6:l2:91:GLU:HG3	6:l2:92:THR:HG23	1.93	0.49
7:T3:77:ARG:HD3	7:T3:158:GLU:OE2	2.12	0.49
7:U3:38:MET:HG2	7:U3:185:LYS:HG2	1.94	0.49
7:i3:132:THR:HG21	7:i3:154:PRO:HB3	1.93	0.49
7:p3:59:PHE:HB3	7:p3:202:LEU:HD11	1.94	0.49
7:v3:138:TRP:CE3	7:v3:147:GLU:HB3	2.48	0.49
7:w3:21:SER:OG	7:w3:22:CYS:N	2.44	0.49
5:h5:221:TYR:CE1	5:k5:247:TYR:HB2	2.47	0.49
5:o5:365:GLY:O	5:o5:367:GLY:N	2.42	0.49
6:l6:30:GLN:CB	6:l6:133:LYS:HB3	2.41	0.49
5:n6:397:GLY:O	5:n6:398:THR:HG22	2.11	0.49
6:p6:42:THR:H	6:p6:122:ASN:HD21	1.60	0.49
6:s6:13:ILE:HD12	6:t6:127:GLN:HB3	1.94	0.49
5:o7:297:TRP:CD1	5:o7:297:TRP:H	2.29	0.49
6:u7:71:VAL:HG12	6:u7:73:PHE:H	1.77	0.49
8:AB:154:PHE:HA	8:AB:160:VAL:HA	1.93	0.49
8:AC:127:MET:O	8:AC:196:ILE:N	2.42	0.49
8:AD:200:SER:OG	8:AD:201:ILE:N	2.45	0.49
8:AF:201:ILE:HG23	8:AF:202:ASN:HD22	1.77	0.49
8:AG:50:ARG:HH12	8:AG:54:HIS:HB2	1.77	0.49
8:AG:348:PRO:HA	8:AG:352:THR:HG22	1.93	0.49
8:AI:227:LEU:HD11	8:AI:298:SER:HB2	1.93	0.49
8:AI:315:ILE:HD12	8:AI:316:PRO:HD2	1.94	0.49
8:AK:39:VAL:HG23	8:AK:40:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:117:ALA:HB1	8:AK:127:MET:HE2	1.94	0.49
10:AZ:12:ILE:HD13	10:AZ:66:LEU:HD11	1.94	0.49
10:AZ:50:LEU:HD11	10:AZ:56:GLN:HG3	1.93	0.49
2:o:71:ALA:HB3	2:o:130:TYR:HE2	1.77	0.49
2:h:32:TYR:HB3	2:h:152:ILE:HD12	1.94	0.49
2:i:165:SER:N	2:i:169:THR:O	2.44	0.49
2:k:198:ARG:HG2	8:AK:253:ASP:OD2	2.12	0.49
3:I:15:GLN:NE2	9:AW:47:ALA:O	2.46	0.49
6:l1:9:PHE:CD1	6:l1:133:LYS:HA	2.47	0.49
6:u1:76:THR:HG23	6:u1:78:LEU:H	1.77	0.49
5:g2:243:LYS:NZ	6:l7:106:MET:SD	2.85	0.49
5:g2:432:TYR:O	5:g2:436:SER:OG	2.29	0.49
5:n2:373:PRO:HG2	5:n2:375:LEU:HD23	1.94	0.49
7:P3:77:ARG:NE	7:P3:158:GLU:OE2	2.45	0.49
7:l3:209:ILE:HG12	7:l3:210:ASP:O	2.13	0.49
7:z3:209:ILE:HD11	7:z3:213:GLY:HA2	1.94	0.49
7:53:138:TRP:CE3	7:53:147:GLU:HB3	2.47	0.49
7:C3:88:LEU:HA	7:C3:91:LEU:HD13	1.94	0.49
5:o5:229:ALA:HB1	5:r5:249:GLY:HA2	1.95	0.49
5:o5:287:ILE:O	5:o5:289:LYS:NZ	2.45	0.49
6:t5:91:GLU:HG3	6:t5:92:THR:H	1.77	0.49
1:a7:9:LEU:HD11	6:l7:98:PHE:HD1	1.78	0.49
8:AG:380:ARG:HH22	8:AH:373:ARG:HH12	1.60	0.49
8:AH:363:CYS:SG	8:AH:364:GLY:N	2.85	0.49
8:AI:26:PHE:O	8:AI:31:PHE:N	2.45	0.49
3:AN:98:VAL:HG12	3:AN:110:ILE:HD12	1.94	0.49
9:AS:155:TRP:NE1	9:AX:112:ASP:OD1	2.30	0.49
2:a:25:THR:OG1	2:a:27:ASP:OD1	2.28	0.49
2:l:135:ARG:HH21	2:l:139:SER:HB2	1.77	0.49
2:n:9:LEU:HD23	2:n:29:LEU:HD23	1.94	0.49
2:o:51:GLU:HG3	2:o:132:THR:O	2.12	0.49
2:j:135:ARG:NH1	7:K3:25:GLU:OE1	2.40	0.49
2:k:185:ALA:O	2:k:191:GLN:HG2	2.12	0.49
2:m:79:VAL:HG22	2:m:92:LEU:O	2.13	0.49
5:g1:208:THR:HG22	5:g1:241:GLU:HG3	1.94	0.49
5:o1:221:TYR:CD1	5:r1:293:GLU:HG3	2.45	0.49
5:r1:300:GLU:OE1	5:r1:302:CYS:HB3	2.12	0.49
5:r2:345:HIS:CG	5:r2:388:ASP:HB3	2.48	0.49
5:r2:387:PRO:HD2	5:r2:408:PHE:HD1	1.77	0.49
7:K3:30:ARG:HD2	7:K3:230:GLY:H	1.77	0.49
7:O3:2:TYR:HB2	7:O3:37:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R3:190:VAL:HG21	7:R3:226:ILE:HD13	1.94	0.49
7:a3:56:LYS:HB3	7:a3:207:VAL:HG21	1.92	0.49
7:d3:108:ASN:HB3	7:d3:138:TRP:CD1	2.48	0.49
7:f3:21:SER:OG	7:f3:22:CYS:N	2.46	0.49
7:p3:138:TRP:CE3	7:p3:147:GLU:HB3	2.47	0.49
7:r3:79:LYS:HE3	7:r3:155:THR:HA	1.94	0.49
7:w3:133:GLY:H	7:w3:152:VAL:HG23	1.77	0.49
7:z3:139:PHE:HE1	7:z3:148:TYR:HB2	1.77	0.49
7:23:154:PRO:O	7:23:155:THR:HG22	2.11	0.49
6:m6:30:GLN:OE1	6:m6:133:LYS:HD3	2.13	0.49
6:p6:11:SER:OG	6:q6:129:THR:OG1	2.29	0.49
6:v6:67:ARG:NH1	6:v6:84:LEU:HD12	2.28	0.49
5:g7:391:GLU:O	5:g7:395:LYS:HB2	2.12	0.49
8:AA:54:HIS:HB3	8:AA:57:ALA:HB3	1.93	0.49
8:AF:29:ARG:HD2	8:AF:30:PHE:N	2.26	0.49
8:AF:259:VAL:O	8:AF:263:ILE:HG22	2.13	0.49
8:AG:347:GLU:HA	8:AG:351:LEU:HB2	1.93	0.49
8:AI:68:VAL:O	8:AI:71:VAL:HG12	2.13	0.49
8:AI:136:ASP:OD1	8:AI:138:SER:OG	2.23	0.49
9:AQ:42:ALA:O	9:AQ:46:GLN:NE2	2.46	0.49
3:AN:48:SER:HB3	3:AN:54:MET:HG2	1.95	0.49
2:l:43:TYR:CD1	8:AB:252:ASP:HA	2.46	0.49
2:o:17:LYS:HD3	3:AN:106:ARG:HD2	1.94	0.49
2:q:187:ILE:HA	2:m:182:ASN:ND2	2.28	0.49
2:j:78:PRO:HB2	2:j:91:GLU:HB2	1.94	0.49
5:h1:218:LEU:HB3	5:k1:445:PHE:HZ	1.76	0.49
6:t1:35:PHE:HD1	6:t1:128:ILE:HG12	1.78	0.49
6:s:52:HIS:HB2	6:s:110:TRP:NE1	2.27	0.49
7:L3:209:ILE:HD11	7:L3:213:GLY:HA2	1.95	0.49
7:T3:133:GLY:H	7:T3:152:VAL:HG23	1.78	0.49
7:b3:210:ASP:HB3	7:b3:216:PHE:HE2	1.77	0.49
5:n6:220:GLU:OE1	5:n6:220:GLU:N	2.43	0.49
5:n6:343:VAL:HG22	5:n6:386:LEU:HD11	1.95	0.49
6:m7:78:LEU:HD12	6:m7:80:SER:N	2.27	0.49
6:p7:30:GLN:HB2	6:p7:133:LYS:HB2	1.95	0.49
5:r7:208:THR:HB	5:r7:239:HIS:NE2	2.28	0.49
5:r7:345:HIS:CG	5:r7:388:ASP:HB3	2.47	0.49
8:AC:103:ARG:HH22	8:AD:365:ALA:HA	1.78	0.49
8:AD:166:GLY:HA3	8:AE:28:ARG:HH12	1.78	0.49
8:AI:71:VAL:HG11	8:AI:351:LEU:HD11	1.94	0.49
8:AL:59:ARG:HH11	8:AL:320:LEU:HD22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:46:ARG:HE	3:AN:77:VAL:HG23	1.78	0.49
10:AV:87:VAL:HG12	10:AV:99:LEU:HB3	1.94	0.49
2:o:15:HIS:ND1	2:h:32:TYR:OH	2.39	0.49
1:e1:22:PRO:HG3	5:r1:398:THR:HG23	1.94	0.49
5:o1:253:PHE:HZ	5:o1:269:MET:HG3	1.78	0.49
6:p1:46:THR:HA	6:p1:88:THR:HA	1.93	0.49
1:d2:30:ALA:HB3	1:d2:31:PRO:HD3	1.95	0.49
7:N3:154:PRO:O	7:N3:155:THR:HG22	2.12	0.49
7:V3:8:PRO:HB2	7:V3:10:ASN:OD1	2.13	0.49
7:i3:29:ALA:HB1	7:i3:190:VAL:HG21	1.95	0.49
7:j3:77:ARG:NE	7:j3:158:GLU:OE2	2.46	0.49
7:53:202:LEU:O	7:53:222:TYR:N	2.44	0.49
7:83:133:GLY:H	7:83:152:VAL:HG23	1.77	0.49
7:E3:172:ALA:O	7:E3:175:ARG:NH1	2.45	0.49
6:s5:81:GLU:OE1	6:s5:81:GLU:N	2.44	0.49
5:o6:229:ALA:HB1	5:r6:249:GLY:HA2	1.95	0.49
6:p6:67:ARG:HG2	6:p6:84:LEU:HB3	1.94	0.49
6:v6:62:PRO:HB3	6:v6:110:TRP:CG	2.47	0.49
5:o7:254:ASN:HB3	5:o7:257:ASN:HB2	1.94	0.49
6:u7:100:ALA:HB1	6:v7:6:GLY:HA3	1.95	0.49
8:AC:59:ARG:HH11	8:AC:320:LEU:HD22	1.78	0.49
8:AC:128:ALA:HB1	8:AC:145:LEU:HD12	1.94	0.49
8:AC:259:VAL:O	8:AC:263:ILE:HG22	2.12	0.49
8:AF:279:ILE:O	8:AG:247:ALA:N	2.31	0.49
8:AH:140:ASN:HD21	8:AI:16:PRO:HA	1.77	0.49
9:AW:110:ILE:HD12	9:AW:145:ILE:HD12	1.95	0.49
10:AY:13:LEU:HD12	10:AY:27:PRO:HB2	1.94	0.49
2:a:158:ASN:HD21	2:n:161:ASP:HA	1.77	0.49
2:j:24:VAL:HB	2:j:28:LEU:HD12	1.93	0.49
3:H:120:ASP:OD2	3:H:120:ASP:N	2.45	0.49
1:d1:30:ALA:HB3	1:d1:31:PRO:HD3	1.95	0.49
5:n1:427:MET:HG3	5:n1:447:ALA:HB2	1.94	0.49
5:o1:256:LYS:O	5:o1:259:GLN:HG2	2.11	0.49
6:p1:1:MET:N	6:p1:1:MET:SD	2.86	0.49
5:r1:345:HIS:CD2	5:r1:384:ASN:HA	2.48	0.49
1:d2:24:PHE:CE2	1:d2:26:CYS:HB3	2.48	0.49
5:h2:196:LEU:HD21	5:h2:381:ARG:HD2	1.94	0.49
5:k2:389:PRO:HG3	5:k2:409:VAL:HG12	1.94	0.49
7:S3:133:GLY:H	7:S3:152:VAL:HG13	1.78	0.49
7:X3:2:TYR:CZ	7:X3:27:ILE:HG13	2.47	0.49
7:d3:30:ARG:O	7:d3:33:GLU:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u3:79:LYS:HE3	7:u3:155:THR:HA	1.94	0.49
7:z3:88:LEU:N	7:z3:121:GLY:O	2.45	0.49
7:23:138:TRP:CE3	7:23:147:GLU:HB3	2.47	0.49
7:43:88:LEU:HA	7:43:91:LEU:HD13	1.95	0.49
7:63:71:VAL:HG11	7:63:141:ILE:HB	1.93	0.49
7:73:206:GLN:OE1	7:73:207:VAL:N	2.44	0.49
5:n5:281:ARG:O	5:n5:285:LEU:N	2.45	0.49
6:v5:36:LYS:O	6:v5:127:GLN:N	2.39	0.49
5:g6:220:GLU:HA	5:h6:247:TYR:CE1	2.48	0.49
1:a7:9:LEU:HD11	6:l7:98:PHE:CD1	2.47	0.49
6:s7:52:HIS:HB2	6:s7:110:TRP:NE1	2.27	0.49
8:AA:167:ASP:H	8:AB:28:ARG:HH12	1.59	0.49
8:AI:255:GLN:O	8:AI:259:VAL:HG23	2.13	0.49
9:AR:63:SER:HB2	9:AR:75:ASN:ND2	2.26	0.49
3:AN:8:HIS:CD2	3:AN:39:ILE:HG12	2.48	0.49
10:AV:15:THR:OG1	10:AV:86:ASP:HB2	2.11	0.49
10:Ab:9:VAL:HA	10:Ab:91:LYS:HD2	1.94	0.49
5:k1:409:VAL:HG21	5:k1:462:LEU:HD22	1.95	0.49
6:u1:100:ALA:HB1	6:v1:6:GLY:HA3	1.95	0.49
5:o2:189:GLU:HG2	5:o2:190:CYS:N	2.27	0.49
7:J3:1:MET:O	7:X3:10:ASN:ND2	2.45	0.49
7:V3:210:ASP:OD1	7:V3:214:ASN:N	2.32	0.49
7:Y3:9:ARG:HH12	7:Z3:230:GLY:HA2	1.77	0.49
7:i3:59:PHE:HD1	7:i3:202:LEU:HD11	1.78	0.49
7:j3:210:ASP:OD2	7:j3:214:ASN:ND2	2.34	0.49
7:k3:104:ILE:HG12	7:k3:117:LEU:HD22	1.95	0.49
7:m3:74:ALA:HB2	7:m3:91:LEU:HD11	1.94	0.49
7:q3:174:ARG:NE	7:q3:187:VAL:HG21	2.28	0.49
7:r3:74:ALA:HB2	7:r3:91:LEU:HD21	1.94	0.49
7:s3:138:TRP:CE3	7:s3:147:GLU:HB3	2.48	0.49
7:y3:138:TRP:CE3	7:y3:147:GLU:HB3	2.48	0.49
7:13:168:VAL:HG21	7:13:224:ILE:HD12	1.94	0.49
7:63:138:TRP:CE3	7:63:147:GLU:HB3	2.47	0.49
7:63:209:ILE:HD11	7:63:213:GLY:HA2	1.93	0.49
5:g6:309:LEU:HG	5:g6:310:PRO:HD2	1.95	0.49
5:h6:437:SER:OG	5:h6:438:ALA:N	2.46	0.49
5:o7:328:ARG:NH2	5:r7:393:ASN:OD1	2.45	0.49
6:u7:15:TRP:HB3	6:u7:128:ILE:HB	1.94	0.49
8:AD:121:TRP:HE3	8:AD:127:MET:HG3	1.78	0.49
8:AE:132:SER:OG	8:AE:140:ASN:HB3	2.13	0.49
8:AF:121:TRP:HE3	8:AF:127:MET:HG3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:132:SER:HA	8:AH:191:ASN:ND2	2.28	0.49
8:AJ:183:ASN:N	8:AJ:187:ARG:O	2.36	0.49
3:AM:44:ALA:HB1	3:AP:97:SER:OG	2.13	0.49
9:AT:31:ARG:HH22	9:AT:51:PRO:HG2	1.77	0.49
2:l:32:TYR:OH	2:m:15:HIS:ND1	2.33	0.49
2:i:71:ALA:HB3	2:i:130:TYR:CE2	2.46	0.49
5:g1:248:ARG:NH1	5:g1:444:GLN:HG2	2.28	0.49
6:q1:43:ALA:H	6:q1:122:ASN:ND2	2.09	0.49
5:h2:203:SER:HB3	5:k2:178:GLN:CD	2.38	0.49
5:k2:429:PHE:HD2	8:AF:29:ARG:HB2	1.78	0.49
7:J3:57:THR:HG21	7:J3:184:LEU:HD11	1.94	0.49
7:R3:132:THR:HA	7:R3:152:VAL:HG23	1.94	0.49
7:Y3:210:ASP:HB3	7:Y3:216:PHE:HE2	1.77	0.49
7:Z3:154:PRO:O	7:Z3:156:THR:HG23	2.13	0.49
7:a3:61:ILE:HG21	7:a3:168:VAL:HG23	1.93	0.49
7:j3:35:ASN:OD1	7:j3:36:GLY:N	2.44	0.49
7:k3:179:PRO:HB2	7:k3:180:ARG:HH21	1.76	0.49
7:r3:210:ASP:OD1	7:r3:214:ASN:N	2.45	0.49
7:t3:59:PHE:HE2	7:t3:175:ARG:HE	1.61	0.49
7:u3:59:PHE:HE2	7:u3:175:ARG:HE	1.58	0.49
7:13:29:ALA:HB1	7:13:190:VAL:HG21	1.93	0.49
7:23:38:MET:HG2	7:23:185:LYS:HG2	1.95	0.49
7:33:138:TRP:CE3	7:33:147:GLU:HB3	2.47	0.49
7:83:138:TRP:CE3	7:83:147:GLU:HB3	2.47	0.49
7:93:108:ASN:HB3	7:93:138:TRP:HD1	1.77	0.49
5:g5:250:VAL:HG12	5:g5:444:GLN:HA	1.95	0.49
5:k5:308:THR:HG22	5:k5:464:ILE:HA	1.95	0.49
5:h6:198:GLY:HA3	8:AJ:29:ARG:HH22	1.78	0.49
6:q6:43:ALA:H	6:q6:122:ASN:ND2	2.11	0.49
6:q6:91:GLU:HG3	6:q6:92:THR:HG23	1.95	0.49
6:s6:70:GLU:HB3	6:s6:85:ALA:HA	1.94	0.49
5:o7:241:GLU:HB2	6:u7:135:ALA:HB2	1.95	0.49
8:AA:228:MET:HE1	8:AB:219:VAL:HG21	1.94	0.49
8:AA:247:ALA:HB3	8:AL:280:ALA:HA	1.94	0.49
8:AE:112:GLN:NE2	8:AF:197:VAL:O	2.46	0.49
8:AG:66:LEU:HD21	8:AH:348:PRO:HG2	1.95	0.49
8:AG:245:VAL:HG22	8:AG:286:VAL:HG23	1.95	0.49
8:AG:391:ASP:OD1	8:AH:394:THR:OG1	2.28	0.49
8:AJ:190:LYS:HD3	8:AJ:191:ASN:H	1.77	0.49
8:AK:75:VAL:H	8:AK:98:GLN:NE2	2.10	0.49
9:AT:40:ASP:OD2	9:AT:41:ASP:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:36:ALA:O	2:a:37:PHE:C	2.54	0.49
2:b:196:ARG:HA	2:b:199:ARG:HD2	1.95	0.49
2:o:154:TRP:CZ2	2:o:187:ILE:HD11	2.48	0.49
2:q:63:ARG:HH12	8:AD:267:LYS:HB2	1.78	0.49
2:k:24:VAL:HB	2:k:28:LEU:HD12	1.94	0.49
6:s1:2:ASN:HA	6:t1:30:GLN:HG2	1.95	0.49
7:W3:154:PRO:O	7:W3:155:THR:HG22	2.12	0.49
7:X3:74:ALA:HB2	7:X3:91:LEU:HD11	1.95	0.49
7:c3:25:GLU:OE2	7:c3:25:GLU:N	2.45	0.49
7:i3:25:GLU:N	7:i3:25:GLU:OE2	2.46	0.49
7:w3:101:GLU:N	7:w3:101:GLU:OE1	2.46	0.49
7:53:53:LEU:HD13	7:53:182:HIS:HA	1.93	0.49
7:63:205:ARG:HB2	7:73:107:LEU:HD12	1.94	0.49
7:73:172:ALA:O	7:73:175:ARG:NH1	2.46	0.49
7:83:78:THR:HG23	7:83:152:VAL:HG12	1.95	0.49
6:s5:10:PRO:HA	6:t5:34:THR:HG21	1.95	0.49
6:s5:52:HIS:HB2	6:s5:110:TRP:NE1	2.28	0.49
5:g6:238:ARG:HH21	5:g6:240:LEU:HD21	1.78	0.49
5:k6:223:CYS:HB3	5:k6:226:LYS:HD3	1.95	0.49
6:m6:9:PHE:CE1	6:m6:133:LYS:HG3	2.48	0.49
5:n7:200:ILE:HG23	5:n7:422:VAL:HG12	1.95	0.49
6:q7:110:TRP:O	6:q7:111:ILE:HD13	2.13	0.49
6:u7:97:SER:OG	6:u7:99:CYS:SG	2.69	0.49
8:AF:243:TRP:NE1	8:AG:291:ASN:OD1	2.37	0.49
8:AH:119:LEU:HD21	8:AI:201:ILE:HG12	1.95	0.49
8:AI:298:SER:HB3	8:AI:301:PRO:HG2	1.94	0.49
8:AJ:132:SER:HA	8:AJ:191:ASN:ND2	2.28	0.49
8:AL:93:GLN:NE2	8:AL:94:ARG:HG3	2.27	0.49
8:AL:200:SER:OG	8:AL:201:ILE:N	2.46	0.49
8:AL:305:GLN:O	8:AL:309:ILE:HG13	2.13	0.49
3:AP:46:ARG:HB3	3:AP:54:MET:HB2	1.94	0.49
2:a:64:ARG:HH22	2:n:59:ARG:HE	1.61	0.48
2:p:186:VAL:HA	2:p:191:GLN:CG	2.43	0.48
5:h1:343:VAL:HG12	5:h1:386:LEU:HD11	1.93	0.48
6:s2:52:HIS:ND1	6:s2:64:PRO:O	2.33	0.48
7:R3:217:VAL:H	7:S3:34:VAL:HB	1.79	0.48
7:f3:200:TYR:HB2	7:f3:224:ILE:HG23	1.95	0.48
7:t3:99:GLN:O	7:t3:142:ASN:ND2	2.45	0.48
7:t3:139:PHE:HE1	7:t3:148:TYR:HB2	1.78	0.48
7:v3:77:ARG:NH1	7:v3:159:LEU:O	2.45	0.48
7:23:59:PHE:HB3	7:23:202:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:03:88:LEU:N	7:03:121:GLY:O	2.46	0.48
7:G3:6:VAL:HG12	7:G3:41:TYR:HA	1.94	0.48
1:d6:23:CYS:HA	5:o6:356:VAL:HG13	1.95	0.48
5:h6:214:ASP:N	5:h6:214:ASP:OD1	2.46	0.48
5:h6:297:TRP:HB3	5:h6:419:PHE:CD1	2.48	0.48
5:o6:297:TRP:HB2	5:o6:303:PHE:HE2	1.77	0.48
5:r6:345:HIS:CD2	5:r6:384:ASN:HA	2.48	0.48
6:l7:55:SER:CB	6:l7:61:VAL:HG23	2.42	0.48
5:r7:406:GLY:H	5:r7:464:ILE:HB	1.78	0.48
8:AA:172:GLU:HG2	8:AA:172:GLU:O	2.13	0.48
8:AB:131:VAL:HG21	8:AB:192:TYR:CZ	2.48	0.48
8:AD:372:ASP:HB3	8:AD:374:ASP:OD1	2.13	0.48
8:AL:120:SER:HB2	8:AL:147:ILE:HD12	1.95	0.48
1:f21:PRO:HB3	5:h2:351:TYR:CE2	2.49	0.48
1:g7:ARG:O	1:g8:PRO:C	2.55	0.48
2:l78:PRO:HB2	2:l91:GLU:HB2	1.95	0.48
2:n95:ARG:NE	2:q56:GLU:OE1	2.42	0.48
2:j52:LYS:HD2	7:J3:13:SER:OG	2.12	0.48
2:k95:ARG:H	2:k101:LEU:HD21	1.78	0.48
6:v1:132:MET:O	6:v1:133:LYS:HD2	2.13	0.48
5:h2:203:SER:OG	5:h2:204:ARG:N	2.46	0.48
6:v2:62:PRO:HB3	6:v2:110:TRP:CG	2.48	0.48
7:b3:209:ILE:HD11	7:b3:213:GLY:HA2	1.94	0.48
7:w3:59:PHE:HE2	7:w3:175:ARG:HE	1.61	0.48
7:z3:59:PHE:HE2	7:z3:175:ARG:HE	1.61	0.48
7:z3:174:ARG:NE	7:z3:187:VAL:HG21	2.28	0.48
7:43:200:TYR:HB2	7:43:224:ILE:HB	1.94	0.48
7:E3:35:ASN:OD1	7:E3:36:GLY:N	2.41	0.48
1:a5:9:LEU:HD21	6:l5:98:PHE:CD1	2.48	0.48
1:e5:27:ARG:HD3	5:r5:309:LEU:HG	1.94	0.48
5:g5:238:ARG:HH21	5:g5:240:LEU:HD21	1.78	0.48
5:r5:334:PRO:HD3	5:r5:460:ARG:HH21	1.78	0.48
5:g6:282:ASN:HA	5:g6:285:LEU:HD12	1.95	0.48
6:p6:30:GLN:HG2	6:q6:2:ASN:HA	1.94	0.48
5:g7:340:ALA:O	5:g7:379:ARG:NH1	2.46	0.48
5:k7:215:TYR:HD2	5:n7:187:ASN:HD22	1.61	0.48
5:o7:344:MET:HG2	5:o7:380:ILE:HD11	1.95	0.48
6:s7:70:GLU:HB3	6:s7:85:ALA:HA	1.94	0.48
8:AB:35:VAL:HG23	8:AB:37:LYS:HG2	1.95	0.48
8:AH:102:GLN:HG2	8:AI:80:GLN:HG3	1.95	0.48
3:AP:47:PHE:HE1	3:AP:117:THR:CG2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:145:ILE:O	2:l:149:LEU:HG	2.13	0.48
2:n:159:PRO:HD3	3:H:4:ALA:HB2	1.96	0.48
2:p:64:ARG:HH12	5:k7:256:LYS:HE2	1.78	0.48
2:i:85:GLY:O	2:i:110:ARG:HA	2.12	0.48
2:i:175:GLN:HG2	2:i:176:GLY:N	2.28	0.48
2:k:54:ILE:H	2:k:54:ILE:HD12	1.78	0.48
2:m:135:ARG:HB2	7:Q3:17:ASP:CB	2.38	0.48
5:o2:207:PHE:N	5:o2:242:GLY:O	2.46	0.48
6:q2:50:PHE:HE2	6:q2:114:ALA:HB3	1.77	0.48
6:s2:74:CYS:SG	6:s2:75:ASP:N	2.86	0.48
6:u2:42:THR:H	6:u2:122:ASN:HD21	1.60	0.48
7:Q3:39:VAL:HG13	7:Q3:184:LEU:HB3	1.95	0.48
7:U3:190:VAL:HG21	7:U3:226:ILE:HD13	1.95	0.48
7:Z3:25:GLU:N	7:Z3:25:GLU:OE2	2.45	0.48
7:n3:88:LEU:N	7:n3:121:GLY:O	2.46	0.48
7:53:217:VAL:H	7:63:34:VAL:HB	1.77	0.48
7:03:33:GLU:OE2	7:03:35:ASN:HB2	2.13	0.48
6:m5:74:CYS:HB2	5:h7:252:CYS:SG	2.53	0.48
5:r5:291:VAL:HG22	5:r5:292:ASN:ND2	2.28	0.48
6:s5:70:GLU:HB3	6:s5:85:ALA:HA	1.94	0.48
6:s5:100:ALA:HB1	6:t5:6:GLY:HA3	1.94	0.48
5:n6:408:PHE:HD1	5:n6:461:ILE:HD11	1.78	0.48
8:AA:228:MET:O	8:AA:232:ILE:HG12	2.13	0.48
8:AB:190:LYS:HD3	8:AB:191:ASN:H	1.78	0.48
8:AC:21:ASN:HD21	8:AC:158:GLY:HA3	1.77	0.48
8:AE:121:TRP:CZ2	8:AE:198:LYS:HD3	2.47	0.48
8:AE:187:ARG:NH2	8:AE:364:GLY:H	2.11	0.48
8:AF:28:ARG:HG3	8:AF:29:ARG:N	2.24	0.48
8:AF:204:ALA:HB3	8:AF:208:ASP:HB2	1.96	0.48
8:AJ:117:ALA:HB1	8:AJ:127:MET:HE2	1.95	0.48
3:AO:48:SER:O	3:AO:49:GLN:C	2.57	0.48
2:b:195:PHE:HD2	2:b:199:ARG:HH12	1.61	0.48
1:b1:2:VAL:HG11	6:s1:87:VAL:HG12	1.95	0.48
5:r1:208:THR:OG1	5:r1:239:HIS:NE2	2.44	0.48
7:P3:59:PHE:HE2	7:P3:175:ARG:HE	1.61	0.48
7:U3:200:TYR:HB2	7:U3:224:ILE:HG13	1.94	0.48
7:V3:34:VAL:HA	7:V3:189:GLY:HA2	1.94	0.48
7:V3:190:VAL:HG11	7:V3:226:ILE:HD13	1.95	0.48
7:W3:200:TYR:HB2	7:W3:224:ILE:HD11	1.95	0.48
7:Z3:154:PRO:O	7:Z3:155:THR:HG22	2.12	0.48
7:e3:138:TRP:CH2	7:e3:191:SER:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o3:138:TRP:CZ3	7:o3:147:GLU:HB3	2.48	0.48
7:x3:210:ASP:OD1	7:x3:214:ASN:N	2.46	0.48
7:53:38:MET:HG2	7:53:185:LYS:HG2	1.96	0.48
7:53:206:GLN:OE1	7:53:207:VAL:N	2.46	0.48
7:63:79:LYS:HD3	7:63:153:ASP:HB2	1.96	0.48
7:73:88:LEU:HA	7:73:91:LEU:HD13	1.95	0.48
7:83:153:ASP:HA	7:83:159:LEU:HD23	1.96	0.48
7:93:48:LEU:HD23	7:03:1:MET:HE3	1.96	0.48
7:03:2:TYR:HB2	7:03:37:VAL:HG22	1.93	0.48
6:m5:9:PHE:CD1	6:m5:133:LYS:HA	2.48	0.48
1:e6:7:ARG:HD2	1:e6:8:PRO:O	2.14	0.48
1:e6:21:PRO:O	5:o6:324:GLN:NE2	2.45	0.48
6:q6:50:PHE:HE2	6:q6:114:ALA:HB3	1.78	0.48
5:n7:322:LEU:HD12	5:n7:323:ALA:H	1.79	0.48
5:n7:336:GLU:HG2	5:o7:188:ILE:HD12	1.94	0.48
6:q7:49:ILE:HD11	6:q7:111:ILE:HG23	1.94	0.48
8:AA:68:VAL:O	8:AA:71:VAL:HG22	2.13	0.48
8:AC:151:LYS:HB2	8:AC:164:GLN:HB2	1.94	0.48
8:AH:402:ARG:HH21	8:AH:407:TRP:HB3	1.78	0.48
8:AJ:130:LYS:HB2	8:AJ:145:LEU:HD21	1.96	0.48
8:AJ:264:GLU:O	8:AJ:267:LYS:NZ	2.46	0.48
8:AJ:290:LYS:HE3	8:AJ:292:ASP:H	1.78	0.48
8:AL:256:ALA:O	8:AL:259:VAL:HG12	2.14	0.48
3:AM:48:SER:O	3:AM:48:SER:OG	2.31	0.48
9:AQ:17:ALA:HB2	9:AQ:55:VAL:HG21	1.94	0.48
9:AQ:95:LYS:HD3	9:AQ:95:LYS:HA	1.66	0.48
9:AT:139:GLU:HB2	9:AT:144:TYR:HE2	1.79	0.48
10:AY:128:LEU:O	10:AY:129:PRO:C	2.56	0.48
2:a:147:GLY:HA2	2:a:190:ALA:HA	1.94	0.48
2:a:183:ASN:ND2	2:j:186:VAL:O	2.47	0.48
2:n:14:GLU:O	2:q:23:ARG:NH2	2.45	0.48
2:q:51:GLU:H	2:q:51:GLU:CD	2.22	0.48
2:h:177:LEU:HD23	2:h:179:GLY:H	1.78	0.48
5:g1:243:LYS:HE2	6:l2:29:ASN:HB2	1.96	0.48
5:k1:265:PHE:O	5:k1:269:MET:HG2	2.13	0.48
5:n1:439:TRP:CH2	5:g6:248:ARG:HB2	2.49	0.48
5:o2:281:ARG:HH21	5:o2:449:ASP:HB2	1.78	0.48
6:p2:77:VAL:C	6:p2:79:LEU:H	2.21	0.48
7:Q3:17:ASP:CG	7:Q3:18:VAL:H	2.22	0.48
7:T3:33:GLU:OE1	7:T3:35:ASN:HB2	2.13	0.48
7:n3:99:GLN:O	7:n3:142:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:n3:208:ALA:HB3	7:n3:216:PHE:HB2	1.94	0.48
7:u3:154:PRO:O	7:u3:156:THR:HG23	2.14	0.48
7:73:136:ARG:HG2	7:73:149:VAL:HG22	1.95	0.48
5:h5:214:ASP:OD1	5:h5:214:ASP:N	2.45	0.48
5:h5:400:GLN:OE1	5:h5:401:ASP:HB2	2.14	0.48
6:q5:50:PHE:HE2	6:q5:114:ALA:HB3	1.79	0.48
6:s5:47:PHE:N	6:s5:87:VAL:O	2.46	0.48
5:n7:211:LYS:HG2	5:o7:184:VAL:HG23	1.94	0.48
5:r7:309:LEU:HD23	5:r7:309:LEU:H	1.78	0.48
8:AC:75:VAL:H	8:AC:98:GLN:NE2	2.11	0.48
8:AC:75:VAL:H	8:AC:98:GLN:HE22	1.60	0.48
8:AD:204:ALA:HB3	8:AD:208:ASP:HB3	1.95	0.48
8:AE:351:LEU:HB3	8:AE:371:PHE:CZ	2.49	0.48
8:AG:93:GLN:NE2	8:AG:136:ASP:O	2.29	0.48
8:AH:266:THR:HG21	8:AH:277:ILE:HD11	1.95	0.48
8:AH:298:SER:HB3	8:AH:301:PRO:HG2	1.94	0.48
8:AI:167:ASP:N	8:AJ:28:ARG:HH12	2.08	0.48
3:AO:48:SER:O	3:AO:48:SER:OG	2.31	0.48
10:AY:44:ALA:HB1	10:AY:60:SER:O	2.12	0.48
2:p:154:TRP:HE3	2:i:161:ASP:HA	1.78	0.48
3:I:59:MET:SD	9:AW:43:SER:OG	2.70	0.48
5:n1:229:ALA:HB3	5:o1:250:VAL:HG13	1.95	0.48
6:q1:13:ILE:HA	6:q1:129:THR:HG22	1.96	0.48
4:f2:16:VAL:HG13	5:k2:396:GLY:H	1.79	0.48
5:k2:303:PHE:HD1	5:k2:461:ILE:HD11	1.78	0.48
5:o2:300:GLU:HG3	5:o2:302:CYS:SG	2.53	0.48
6:v2:23:VAL:HG21	6:v2:130:VAL:HG11	1.96	0.48
7:L3:132:THR:HA	7:L3:152:VAL:HG23	1.95	0.48
7:L3:136:ARG:HD3	7:L3:149:VAL:HG22	1.94	0.48
7:T3:75:PHE:CE1	7:T3:162:PRO:HD2	2.42	0.48
7:X3:154:PRO:HG2	7:X3:156:THR:HG22	1.96	0.48
7:Z3:171:PRO:HG2	7:Z3:187:VAL:HB	1.95	0.48
7:h3:154:PRO:O	7:h3:156:THR:HG23	2.13	0.48
7:93:209:ILE:HG12	7:93:210:ASP:O	2.14	0.48
7:D3:7:ASP:OD2	7:D3:9:ARG:NH1	2.47	0.48
6:p5:42:THR:H	6:p5:122:ASN:HD21	1.62	0.48
5:h6:198:GLY:HA2	8:AJ:29:ARG:HH12	1.77	0.48
5:h6:218:LEU:HB3	5:k6:445:PHE:CZ	2.49	0.48
5:h6:285:LEU:HD12	5:h6:419:PHE:HE2	1.78	0.48
5:k6:375:LEU:HD12	5:k6:380:ILE:HB	1.96	0.48
6:m6:103:VAL:HG22	6:m6:105:CYS:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p6:133:LYS:HE3	6:q6:3:PHE:HD2	1.79	0.48
8:AA:127:MET:O	8:AA:196:ILE:N	2.46	0.48
8:AB:363:CYS:SG	8:AB:364:GLY:N	2.87	0.48
8:AE:140:ASN:HD21	8:AF:16:PRO:C	2.21	0.48
8:AH:128:ALA:HB1	8:AH:145:LEU:HD12	1.94	0.48
8:AH:163:PHE:CE1	8:AH:195:MET:HE2	2.49	0.48
8:AI:67:THR:O	8:AI:70:SER:OG	2.32	0.48
8:AI:266:THR:HG21	8:AI:277:ILE:HD11	1.96	0.48
8:AK:46:MET:O	8:AK:50:ARG:HD3	2.14	0.48
3:AO:9:ARG:HH21	3:AO:34:GLN:HG2	1.77	0.48
10:AY:39:THR:HB	10:Ab:109:GLU:HB3	1.96	0.48
6:s1:52:HIS:HB2	6:s1:110:TRP:NE1	2.28	0.48
5:g2:296:GLY:O	5:g2:300:GLU:HG2	2.13	0.48
5:n2:455:CYS:O	5:n2:457:GLU:N	2.45	0.48
7:J3:77:ARG:NE	7:J3:158:GLU:OE2	2.47	0.48
7:b3:53:LEU:HB2	7:b3:177:VAL:HG21	1.96	0.48
7:j3:209:ILE:HD11	7:j3:213:GLY:HA2	1.94	0.48
7:l3:77:ARG:NH2	7:l3:158:GLU:OE1	2.46	0.48
7:x3:209:ILE:HD11	7:x3:213:GLY:HA2	1.96	0.48
7:y3:61:ILE:HD11	7:y3:200:TYR:HB3	1.94	0.48
7:83:53:LEU:HD13	7:83:182:HIS:HA	1.96	0.48
5:g5:309:LEU:HG	5:g5:310:PRO:HD2	1.96	0.48
6:m6:1:MET:HE1	5:n6:256:LYS:HZ3	1.79	0.48
6:u6:76:THR:HG23	6:u6:78:LEU:H	1.78	0.48
5:n7:240:LEU:HA	6:p7:135:ALA:HB3	1.96	0.48
5:n7:336:GLU:OE1	5:n7:336:GLU:N	2.34	0.48
6:q7:43:ALA:H	6:q7:122:ASN:ND2	2.10	0.48
8:AC:119:LEU:HD21	8:AD:201:ILE:HG12	1.95	0.48
8:AF:98:GLN:HG3	8:AG:80:GLN:NE2	2.27	0.48
8:AK:136:ASP:OD1	8:AK:138:SER:OG	2.21	0.48
9:AX:82:VAL:HG13	9:AX:147:PHE:HB2	1.96	0.48
1:f:21:PRO:HB3	5:h2:351:TYR:CZ	2.49	0.48
2:a:43:TYR:OH	2:a:198:ARG:NH2	2.47	0.48
2:h:65:GLY:O	2:h:103:PHE:N	2.38	0.48
5:g1:184:VAL:HG13	5:r1:211:LYS:HG2	1.94	0.48
5:n1:196:LEU:HD23	5:n1:341:ARG:HD2	1.96	0.48
5:o1:204:ARG:O	5:r1:178:GLN:NE2	2.45	0.48
6:l2:31:PHE:HB3	6:l2:132:MET:HG3	1.94	0.48
5:r2:213:ALA:HB3	5:r2:236:ASN:HB3	1.94	0.48
7:J3:38:MET:HG2	7:J3:185:LYS:HG2	1.94	0.48
7:K3:25:GLU:HB2	7:K3:222:TYR:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:87:THR:HG22	7:K3:89:SER:H	1.78	0.48
7:K3:210:ASP:HB3	7:K3:216:PHE:HE2	1.77	0.48
7:O3:132:THR:HA	7:O3:152:VAL:HG23	1.96	0.48
7:U3:137:PHE:CE1	7:U3:148:TYR:HB3	2.49	0.48
7:W3:137:PHE:CE1	7:W3:148:TYR:HB3	2.48	0.48
7:c3:57:THR:HG21	7:c3:184:LEU:HD11	1.96	0.48
7:e3:171:PRO:HD2	7:e3:187:VAL:HG23	1.96	0.48
7:j3:102:TYR:HD1	7:j3:141:ILE:HD12	1.78	0.48
7:33:108:ASN:HB3	7:33:138:TRP:CD1	2.49	0.48
7:83:209:ILE:HD11	7:83:213:GLY:HA2	1.94	0.48
7:A3:9:ARG:NH2	7:B3:230:GLY:OXT	2.45	0.48
6:l5:12:PHE:O	6:l5:129:THR:OG1	2.25	0.48
5:n5:357:ASP:OD1	5:n5:361:ARG:N	2.46	0.48
6:q6:89:LEU:HD11	6:q6:93:VAL:HG11	1.95	0.48
6:v6:15:TRP:HB3	6:v6:128:ILE:HB	1.95	0.48
6:v6:82:ASP:OD1	6:v6:82:ASP:N	2.46	0.48
5:g7:214:ASP:N	5:g7:214:ASP:OD1	2.45	0.48
5:n7:397:GLY:O	5:n7:398:THR:HG22	2.13	0.48
6:u7:2:ASN:OD1	6:v7:104:PRO:HA	2.14	0.48
6:v7:47:PHE:HB2	6:v7:87:VAL:CG2	2.43	0.48
8:AB:176:SER:HG	8:AB:178:THR:HG1	1.61	0.48
8:AC:77:LYS:H	8:AC:77:LYS:HD2	1.79	0.48
8:AF:402:ARG:HH21	8:AF:407:TRP:HB3	1.79	0.48
8:AH:292:ASP:OD2	8:AH:292:ASP:N	2.47	0.48
8:AK:168:GLU:H	8:AL:28:ARG:NH1	2.12	0.48
3:AM:8:HIS:NE2	3:AM:39:ILE:HG12	2.29	0.48
9:AQ:28:ILE:O	9:AQ:31:ARG:HG3	2.14	0.48
2:a:66:LYS:HG3	2:a:102:PHE:CE1	2.49	0.48
2:l:43:TYR:HB2	8:AB:252:ASP:OD1	2.13	0.48
2:l:56:GLU:OE2	2:m:95:ARG:NH1	2.46	0.48
2:n:63:ARG:NH1	2:n:64:ARG:HB3	2.28	0.48
2:o:15:HIS:CD2	2:o:149:LEU:HB3	2.49	0.48
2:j:129:THR:HG21	7:J3:43:ALA:HA	1.96	0.48
3:H:49:GLN:C	3:H:51:GLY:N	2.65	0.48
5:h2:214:ASP:OD1	5:h2:214:ASP:N	2.46	0.48
5:n2:297:TRP:HA	5:n2:300:GLU:HB2	1.96	0.48
7:O3:67:THR:HG22	7:d3:56:LYS:HD3	1.95	0.48
7:Q3:75:PHE:CE1	7:Q3:162:PRO:HD2	2.44	0.48
7:R3:27:ILE:HB	7:R3:224:ILE:HG22	1.95	0.48
7:V3:38:MET:HE3	7:V3:185:LYS:HE2	1.96	0.48
7:V3:181:THR:HG23	7:V3:183:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:1:MET:HE2	7:d3:38:MET:HG3	1.95	0.48
7:d3:74:ALA:HB2	7:d3:91:LEU:HD11	1.94	0.48
7:e3:78:THR:HB	7:e3:84:PHE:HD2	1.79	0.48
7:g3:205:ARG:HB3	7:h3:107:LEU:HD12	1.94	0.48
7:n3:132:THR:HA	7:n3:152:VAL:HG23	1.95	0.48
7:v3:34:VAL:HA	7:v3:189:GLY:HA2	1.95	0.48
7:z3:132:THR:HG21	7:z3:154:PRO:HB3	1.96	0.48
7:13:57:THR:HG21	7:13:184:LEU:HD11	1.96	0.48
7:43:172:ALA:O	7:43:175:ARG:NH1	2.47	0.48
7:B3:9:ARG:NH2	7:C3:230:GLY:HA2	2.29	0.48
7:C3:118:GLY:HA3	7:C3:122:ALA:HB3	1.96	0.48
5:g5:214:ASP:N	5:g5:214:ASP:OD1	2.45	0.48
5:g5:303:PHE:CE1	5:g5:456:CYS:HA	2.49	0.48
5:k5:297:TRP:CD1	5:k5:297:TRP:H	2.30	0.48
5:k5:351:TYR:HE2	5:k5:396:GLY:HA2	1.79	0.48
6:q5:30:GLN:HB2	6:q5:133:LYS:HG2	1.95	0.48
1:a6:9:LEU:HD21	6:l6:98:PHE:HD1	1.78	0.48
5:r7:240:LEU:HB3	6:t7:135:ALA:O	2.13	0.48
5:r7:248:ARG:HB2	5:r7:444:GLN:HE22	1.79	0.48
8:AE:112:GLN:HE22	8:AF:197:VAL:HG13	1.79	0.48
8:AE:314:GLY:O	8:AE:345:THR:HG21	2.14	0.48
8:AI:54:HIS:HB3	8:AI:57:ALA:HB3	1.94	0.48
8:AL:28:ARG:HD3	8:AL:29:ARG:NH2	2.29	0.48
3:AM:100:ASN:ND2	3:AM:103:GLU:OE1	2.45	0.48
10:Aa:12:ILE:HG22	10:Aa:89:VAL:HG23	1.95	0.48
3:AO:8:HIS:NE2	3:AO:39:ILE:HG12	2.28	0.48
2:a:38:GLU:OE2	2:j:143:GLY:HA3	2.13	0.48
2:h:67:ILE:HG13	2:h:67:ILE:O	2.14	0.48
2:i:69:LEU:HD21	2:i:130:TYR:CE2	2.48	0.48
3:H:65:ILE:HD11	3:H:93:PHE:HD2	1.79	0.48
3:I:19:VAL:HA	3:I:25:LEU:HA	1.94	0.48
5:k1:200:ILE:HG13	5:k1:422:VAL:HG12	1.95	0.48
5:n1:229:ALA:HB1	5:o1:249:GLY:HA2	1.95	0.48
5:g2:248:ARG:NH1	5:g2:444:GLN:HG2	2.28	0.48
7:M3:172:ALA:O	7:M3:175:ARG:NH1	2.42	0.48
7:c3:21:SER:OG	7:c3:22:CYS:N	2.46	0.48
7:h3:132:THR:HG21	7:h3:154:PRO:HB3	1.96	0.48
7:o3:9:ARG:HH12	7:p3:230:GLY:HA2	1.79	0.48
7:13:138:TRP:CZ3	7:13:147:GLU:HB3	2.49	0.48
7:43:51:HIS:HD2	7:43:211:CYS:HA	1.79	0.48
7:43:88:LEU:N	7:43:121:GLY:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o5:342:SER:OG	5:o5:379:ARG:O	2.27	0.48
6:q5:43:ALA:H	6:q5:122:ASN:ND2	2.10	0.48
5:r5:251:PHE:CE1	5:r5:443:TYR:HB2	2.48	0.48
5:k6:248:ARG:HA	5:k6:446:GLY:HA2	1.95	0.48
6:s6:46:THR:HA	6:s6:88:THR:HA	1.94	0.48
5:g7:188:ILE:HD11	5:r7:336:GLU:HG3	1.95	0.48
6:m7:70:GLU:OE1	6:m7:80:SER:OG	2.32	0.48
5:o7:365:GLY:O	5:o7:367:GLY:N	2.43	0.48
6:p7:116:ALA:O	6:p7:119:SER:OG	2.30	0.48
5:r7:387:PRO:HD2	5:r7:408:PHE:HD1	1.78	0.48
6:s7:74:CYS:SG	6:s7:75:ASP:N	2.87	0.48
8:AA:228:MET:HE2	8:AB:219:VAL:HG11	1.95	0.48
8:AB:198:LYS:HD3	8:AB:211:ASN:HB3	1.96	0.48
8:AB:355:GLU:HG2	8:AB:368:ARG:HH21	1.78	0.48
8:AF:384:ALA:HB1	8:AG:389:THR:HG21	1.95	0.48
8:AJ:26:PHE:O	8:AJ:31:PHE:N	2.47	0.48
1:e:32:SER:OG	1:e:33:ALA:N	2.46	0.47
2:a:199:ARG:HH21	8:AE:282:THR:HG23	1.79	0.47
2:b:32:TYR:HB3	2:b:152:ILE:HD13	1.96	0.47
2:h:58:ILE:HG23	2:h:126:LEU:HG	1.95	0.47
5:g2:344:MET:HE3	5:g2:349:PHE:HB2	1.96	0.47
5:n2:303:PHE:O	5:n2:304:PRO:C	2.57	0.47
7:X3:27:ILE:HG23	7:X3:224:ILE:HA	1.95	0.47
7:X3:209:ILE:HD11	7:X3:213:GLY:HA2	1.96	0.47
7:X3:210:ASP:OD1	7:X3:214:ASN:N	2.47	0.47
7:f3:83:VAL:HG23	7:f3:126:THR:HG22	1.96	0.47
7:o3:209:ILE:HD11	7:o3:213:GLY:HA2	1.96	0.47
7:o3:210:ASP:OD1	7:o3:214:ASN:N	2.46	0.47
7:x3:210:ASP:HB3	7:x3:216:PHE:HE2	1.77	0.47
7:y3:62:ASP:O	7:y3:201:ARG:N	2.41	0.47
7:33:1:MET:HE3	7:G3:48:LEU:HD13	1.95	0.47
6:v5:62:PRO:HB3	6:v5:110:TRP:CG	2.49	0.47
1:a6:9:LEU:HD21	6:l6:98:PHE:CD1	2.49	0.47
1:a6:26:CYS:HB2	1:d6:23:CYS:SG	2.54	0.47
5:h6:210:MET:HE2	5:h6:239:HIS:CE1	2.49	0.47
5:k6:222:THR:HG21	5:n6:248:ARG:HB2	1.95	0.47
5:k6:252:CYS:HB3	5:k6:442:LYS:HA	1.96	0.47
8:AE:172:GLU:O	8:AE:172:GLU:HG2	2.14	0.47
8:AH:71:VAL:HG11	8:AH:351:LEU:HD21	1.96	0.47
8:AH:227:LEU:HD23	8:AH:302:LEU:HD13	1.96	0.47
8:AL:396:ILE:HG22	8:AL:401:LYS:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AU:63:THR:OG1	10:AZ:109:GLU:OE1	2.26	0.47
1:c:4:LEU:HD11	6:m6:99:CYS:HB3	1.95	0.47
2:b:15:HIS:CD2	2:b:149:LEU:HB3	2.49	0.47
2:n:49:THR:H	2:n:135:ARG:NH2	2.12	0.47
2:i:146:ILE:O	2:i:150:LYS:HG2	2.14	0.47
2:m:69:LEU:HB2	2:m:99:ASN:HB2	1.95	0.47
1:d1:27:ARG:O	5:r1:398:THR:HG21	2.13	0.47
1:e1:19:VAL:HG23	5:o1:309:LEU:HD11	1.96	0.47
5:o1:304:PRO:HD2	5:o1:459:GLY:O	2.14	0.47
7:N3:14:LYS:HA	7:N3:14:LYS:HE3	1.95	0.47
7:O3:2:TYR:OH	7:O3:28:SER:O	2.26	0.47
7:R3:30:ARG:HD2	7:R3:230:GLY:H	1.79	0.47
7:S3:75:PHE:HD1	7:S3:149:VAL:HG13	1.80	0.47
7:S3:172:ALA:O	7:S3:175:ARG:NH1	2.42	0.47
7:d3:35:ASN:OD1	7:d3:36:GLY:N	2.44	0.47
7:i3:179:PRO:HB2	7:i3:180:ARG:HH21	1.78	0.47
7:i3:200:TYR:HB2	7:i3:224:ILE:HG13	1.96	0.47
7:j3:30:ARG:O	7:j3:33:GLU:HG3	2.14	0.47
7:j3:210:ASP:HB3	7:j3:216:PHE:HE2	1.78	0.47
7:x3:194:ALA:HB1	7:x3:226:ILE:HG21	1.96	0.47
7:33:94:ASN:ND2	7:33:96:GLU:O	2.48	0.47
7:63:92:PHE:HB2	7:63:141:ILE:HG21	1.96	0.47
7:D3:38:MET:HG2	7:D3:185:LYS:HG2	1.95	0.47
5:h5:182:LEU:HD21	5:h5:184:VAL:HG13	1.96	0.47
6:u5:15:TRP:HB3	6:u5:128:ILE:HB	1.96	0.47
5:r6:195:ASP:OD1	5:r6:195:ASP:N	2.45	0.47
5:g7:337:TYR:CD1	5:h7:188:ILE:HD11	2.48	0.47
8:AC:239:PRO:O	8:AC:291:ASN:ND2	2.47	0.47
8:AE:75:VAL:H	8:AE:98:GLN:HE22	1.62	0.47
8:AE:245:VAL:HG23	8:AE:286:VAL:HG22	1.95	0.47
8:AE:363:CYS:SG	8:AE:364:GLY:N	2.87	0.47
8:AJ:224:TYR:HB2	8:AJ:305:GLN:CD	2.39	0.47
8:AL:190:LYS:HZ1	8:AL:191:ASN:HB2	1.79	0.47
9:AQ:104:TYR:OH	9:AQ:108:GLU:OE1	2.32	0.47
10:AZ:17:THR:HG23	10:AZ:84:GLN:HB3	1.95	0.47
3:AN:48:SER:O	3:AN:48:SER:OG	2.32	0.47
3:AO:79:ALA:HB3	3:AO:95:VAL:HG11	1.96	0.47
9:AW:40:ASP:OD2	9:AW:41:ASP:N	2.47	0.47
2:p:43:TYR:HA	8:AA:252:ASP:HA	1.97	0.47
2:q:49:THR:HG23	2:q:133:GLY:HA2	1.96	0.47
2:i:185:ALA:O	2:i:191:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e1:7:ARG:HD2	1:e1:8:PRO:O	2.14	0.47
5:r1:386:LEU:HG	5:r1:408:PHE:HE1	1.79	0.47
5:g2:250:VAL:HG12	5:g2:444:GLN:HA	1.96	0.47
5:k2:217:GLN:O	5:k2:218:LEU:HD23	2.15	0.47
6:q2:9:PHE:HA	6:q2:132:MET:O	2.14	0.47
7:K3:33:GLU:OE1	7:K3:35:ASN:HB2	2.14	0.47
7:U3:154:PRO:HG2	7:U3:156:THR:HG22	1.96	0.47
7:U3:206:GLN:OE1	7:U3:207:VAL:N	2.47	0.47
7:W3:21:SER:O	7:W3:22:CYS:C	2.57	0.47
7:b3:154:PRO:HG2	7:b3:156:THR:HG22	1.95	0.47
7:c3:133:GLY:H	7:c3:152:VAL:HG23	1.79	0.47
7:l3:25:GLU:OE2	7:l3:25:GLU:N	2.48	0.47
7:s3:190:VAL:HG11	7:s3:226:ILE:HD13	1.96	0.47
7:w3:136:ARG:HG2	7:w3:149:VAL:HG12	1.96	0.47
7:z3:21:SER:OG	7:z3:22:CYS:N	2.46	0.47
5:n5:246:ASP:HA	5:n5:448:GLU:HA	1.96	0.47
5:r5:306:PHE:CE2	5:r5:460:ARG:HD3	2.48	0.47
1:b6:27:ARG:NH1	5:g6:325:ASP:OD2	2.33	0.47
5:g6:370:THR:HG22	5:g6:372:THR:HG23	1.95	0.47
5:h6:219:GLY:HA3	5:k6:247:TYR:CZ	2.49	0.47
5:g7:336:GLU:CD	5:g7:336:GLU:H	2.22	0.47
5:h7:426:PRO:HD3	8:AB:37:LYS:HE3	1.97	0.47
5:k7:291:VAL:HG21	6:m7:107:ASN:HA	1.96	0.47
6:u7:67:ARG:HE	6:u7:84:LEU:HB3	1.79	0.47
8:AA:243:TRP:HE1	8:AB:291:ASN:ND2	2.13	0.47
8:AD:305:GLN:O	8:AD:309:ILE:HG12	2.14	0.47
8:AG:351:LEU:HB3	8:AG:371:PHE:CZ	2.49	0.47
8:AK:66:LEU:HD21	8:AL:348:PRO:HG2	1.96	0.47
8:AL:402:ARG:HE	8:AL:407:TRP:HB3	1.78	0.47
10:Aa:17:THR:HG22	10:Aa:24:VAL:HG22	1.96	0.47
2:n:78:PRO:HB2	2:n:91:GLU:HB2	1.95	0.47
2:k:53:THR:OG1	7:U3:43:ALA:HB1	2.13	0.47
3:I:20:ASP:N	3:I:24:ARG:O	2.47	0.47
5:g1:248:ARG:HH21	5:n2:439:TRP:NE1	2.13	0.47
5:g1:255:ARG:HE	5:g1:441:VAL:HB	1.78	0.47
5:k1:195:ASP:OD2	5:k1:381:ARG:NH2	2.48	0.47
6:v1:89:LEU:HD21	6:v1:93:VAL:HG21	1.95	0.47
5:g2:458:HIS:HE2	5:h2:186:CYS:HA	1.79	0.47
5:k2:207:PHE:HB2	5:n2:180:LEU:HD22	1.96	0.47
7:O3:64:VAL:HG23	7:O3:199:VAL:HG13	1.95	0.47
7:W3:32:GLY:H	7:W3:190:VAL:HG13	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z3:80:VAL:HG23	7:Z3:153:ASP:O	2.15	0.47
7:b3:157:SER:OG	7:b3:158:GLU:N	2.47	0.47
7:e3:209:ILE:HD11	7:e3:213:GLY:HA2	1.96	0.47
7:h3:154:PRO:O	7:h3:155:THR:HG22	2.15	0.47
7:m3:77:ARG:NE	7:m3:158:GLU:OE2	2.47	0.47
7:q3:139:PHE:HE1	7:q3:148:TYR:HB2	1.78	0.47
7:r3:138:TRP:CZ3	7:r3:147:GLU:HB3	2.49	0.47
7:v3:202:LEU:O	7:v3:222:TYR:N	2.45	0.47
7:C3:88:LEU:N	7:C3:121:GLY:O	2.47	0.47
7:F3:30:ARG:HD2	7:F3:230:GLY:H	1.80	0.47
5:h5:196:LEU:HD11	5:h5:341:ARG:HD2	1.97	0.47
5:k5:409:VAL:HG21	5:k5:462:LEU:HD22	1.95	0.47
5:r5:345:HIS:CD2	5:r5:384:ASN:HA	2.50	0.47
6:v5:1:MET:HE2	6:v5:3:PHE:CE1	2.49	0.47
6:v5:132:MET:N	6:v5:132:MET:SD	2.87	0.47
1:e6:8:PRO:O	1:e6:9:LEU:HD23	2.14	0.47
5:o6:291:VAL:HG21	6:u6:107:ASN:HA	1.96	0.47
5:r6:332:SER:O	5:r6:460:ARG:NE	2.48	0.47
5:h7:214:ASP:N	5:h7:214:ASP:OD1	2.46	0.47
5:h7:324:GLN:NE2	5:k7:354:ALA:O	2.41	0.47
5:n7:221:TYR:HE2	5:o7:284:ALA:HB2	1.78	0.47
5:r7:241:GLU:HG2	6:t7:134:GLY:HA2	1.96	0.47
6:u7:28:PHE:HA	6:u7:134:GLY:HA2	1.94	0.47
8:AB:297:HIS:HE1	8:AB:299:LYS:HB2	1.79	0.47
8:AC:100:ILE:HD11	8:AC:141:ALA:HA	1.97	0.47
8:AC:102:GLN:HE21	8:AD:80:GLN:HG3	1.79	0.47
8:AD:358:PHE:HA	8:AD:362:LEU:HD13	1.97	0.47
8:AE:28:ARG:HG2	8:AE:29:ARG:H	1.80	0.47
8:AH:343:GLU:OE1	8:AH:379:LEU:HD22	2.14	0.47
8:AH:358:PHE:HA	8:AH:362:LEU:HD13	1.96	0.47
8:AI:223:LEU:HD23	8:AI:305:GLN:HE21	1.79	0.47
10:AZ:84:GLN:NE2	10:AZ:101:GLU:HB2	2.29	0.47
10:AV:14:ILE:HG12	10:AV:87:VAL:HG23	1.95	0.47
2:a:37:PHE:HA	2:a:148:ILE:CD1	2.44	0.47
2:n:17:LYS:HG2	2:n:17:LYS:O	2.14	0.47
2:o:67:ILE:HG13	2:o:67:ILE:O	2.14	0.47
2:p:13:ARG:HH12	2:p:22:PRO:HA	1.79	0.47
2:p:51:GLU:CD	7:R3:12:ALA:HB1	2.39	0.47
2:i:61:LYS:HG3	8:AL:271:ASP:HB2	1.96	0.47
2:i:78:PRO:HB2	2:i:91:GLU:HB2	1.96	0.47
2:j:77:ARG:HD3	2:j:131:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o1:248:ARG:HA	5:o1:446:GLY:HA2	1.97	0.47
6:s1:123:ALA:O	6:s1:126:VAL:HG12	2.13	0.47
6:v1:67:ARG:HD3	6:v1:84:LEU:HB2	1.97	0.47
6:m2:133:LYS:HG2	6:m2:134:GLY:H	1.79	0.47
5:n2:291:VAL:HG22	5:n2:292:ASN:ND2	2.29	0.47
6:p2:67:ARG:HB3	6:p2:84:LEU:HD23	1.96	0.47
5:r2:351:TYR:CE2	5:r2:396:GLY:HA3	2.48	0.47
6:u2:79:LEU:HD23	6:u2:79:LEU:H	1.79	0.47
7:O3:31:PRO:HG3	7:O3:226:ILE:HD11	1.95	0.47
7:P3:8:PRO:HA	7:P3:44:TRP:HB2	1.96	0.47
7:Q3:83:VAL:HG23	7:Q3:126:THR:HG22	1.97	0.47
7:S3:210:ASP:OD1	7:S3:214:ASN:N	2.31	0.47
7:Y3:209:ILE:HD11	7:Y3:213:GLY:HA2	1.95	0.47
7:f3:210:ASP:OD1	7:f3:214:ASN:ND2	2.48	0.47
7:33:172:ALA:O	7:33:175:ARG:NH1	2.47	0.47
7:C3:172:ALA:O	7:C3:175:ARG:NH1	2.47	0.47
5:r5:253:PHE:N	5:r5:441:VAL:O	2.41	0.47
6:s5:47:PHE:CZ	6:s5:126:VAL:HG21	2.48	0.47
5:g6:248:ARG:NH1	5:g6:444:GLN:HG2	2.30	0.47
6:t7:67:ARG:HE	6:t7:84:LEU:HD13	1.79	0.47
6:u7:2:ASN:ND2	6:v7:31:PHE:O	2.46	0.47
8:AB:183:ASN:N	8:AB:187:ARG:O	2.36	0.47
8:AF:69:GLN:HE22	8:AG:352:THR:HG23	1.79	0.47
9:AQ:81:ILE:HG22	9:AQ:148:ARG:HA	1.96	0.47
10:AU:105:VAL:HA	10:Ab:47:ASN:HB2	1.95	0.47
2:l:21:ASN:HD21	3:I:106:ARG:HH22	1.60	0.47
2:n:154:TRP:CZ2	2:n:187:ILE:HD11	2.49	0.47
2:q:74:ILE:HG13	2:q:75:ALA:N	2.24	0.47
6:l1:58:ASP:HB3	6:l1:61:VAL:HG22	1.97	0.47
6:p1:30:GLN:HB2	6:p1:133:LYS:HB3	1.97	0.47
5:h2:334:PRO:HG2	5:h2:337:TYR:CD2	2.49	0.47
6:p2:13:ILE:HG12	6:q2:13:ILE:HG12	1.95	0.47
6:t2:51:TYR:HD2	6:t2:108:GLY:HA3	1.80	0.47
7:O3:228:SER:HG	7:O3:229:CYS:HG	1.61	0.47
7:d3:90:ASP:OD1	7:d3:90:ASP:N	2.48	0.47
7:e3:157:SER:OG	7:e3:158:GLU:N	2.47	0.47
7:B3:94:ASN:ND2	7:B3:96:GLU:O	2.47	0.47
7:F3:154:PRO:O	7:F3:155:THR:HG22	2.15	0.47
1:b5:23:CYS:HB3	1:e5:26:CYS:HB3	1.51	0.47
6:u6:100:ALA:HB1	6:v6:6:GLY:HA3	1.96	0.47
5:k7:357:ASP:OD1	5:k7:361:ARG:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t7:51:TYR:HD2	6:t7:108:GLY:HA3	1.79	0.47
8:AA:159:ASP:OD1	8:AA:159:ASP:N	2.46	0.47
8:AA:163:PHE:CE1	8:AA:193:ALA:HB3	2.50	0.47
8:AB:127:MET:O	8:AB:196:ILE:N	2.46	0.47
8:AB:400:GLU:HA	8:AB:403:GLU:HG3	1.97	0.47
8:AE:276:ILE:HG22	8:AF:243:TRP:HB2	1.96	0.47
8:AH:169:ALA:HB3	8:AI:28:ARG:HG3	1.95	0.47
8:AH:347:GLU:HB3	8:AH:348:PRO:HD3	1.97	0.47
8:AJ:133:VAL:HA	8:AJ:139:VAL:HA	1.95	0.47
8:AK:402:ARG:HH21	8:AK:407:TRP:HB3	1.79	0.47
8:AL:223:LEU:HB3	8:AL:305:GLN:OE1	2.14	0.47
9:AR:63:SER:OG	9:AR:77:ARG:HB2	2.15	0.47
3:AO:91:ARG:HH21	3:AO:93:PHE:HE2	1.62	0.47
1:c:18:LEU:HD21	5:g5:306:PHE:CD1	2.50	0.47
1:f:27:ARG:NH2	5:h2:309:LEU:HB2	2.30	0.47
2:n:167:ARG:HD2	2:n:168:ASN:H	1.79	0.47
2:o:14:GLU:O	2:h:23:ARG:NH2	2.46	0.47
2:i:136:CYS:O	2:i:138:ASN:N	2.48	0.47
2:m:131:VAL:HG22	2:m:133:GLY:N	2.29	0.47
2:m:171:ASN:OD1	2:m:172:ALA:N	2.42	0.47
3:H:79:ALA:O	3:H:95:VAL:HG12	2.14	0.47
3:I:49:GLN:HG2	3:AM:76:SER:CB	2.45	0.47
5:h1:190:CYS:SG	5:h1:191:ALA:N	2.88	0.47
6:l1:11:SER:H	6:m1:34:THR:HG21	1.79	0.47
6:m1:82:ASP:HA	7:L3:56:LYS:NZ	2.30	0.47
6:m1:106:MET:HE3	6:m1:106:MET:HB3	1.76	0.47
5:r1:308:THR:HG22	5:r1:464:ILE:HA	1.96	0.47
5:g2:248:ARG:HH21	5:n7:439:TRP:NE1	2.13	0.47
5:n2:223:CYS:SG	5:n2:224:ASP:N	2.87	0.47
5:o2:455:CYS:HB3	5:o2:458:HIS:HD2	1.80	0.47
6:s2:48:ASN:CG	6:s2:67:ARG:HH12	2.22	0.47
6:u2:67:ARG:HE	6:u2:84:LEU:HB3	1.79	0.47
6:v2:48:ASN:HD22	6:v2:67:ARG:HH12	1.61	0.47
7:K3:154:PRO:O	7:K3:155:THR:HG22	2.14	0.47
7:R3:209:ILE:HD11	7:R3:213:GLY:HA2	1.97	0.47
7:U3:80:VAL:HG23	7:U3:153:ASP:O	2.15	0.47
7:W3:2:TYR:HB2	7:W3:37:VAL:HG22	1.97	0.47
7:W3:154:PRO:O	7:W3:156:THR:HG23	2.14	0.47
7:X3:108:ASN:HB3	7:X3:138:TRP:CD1	2.49	0.47
7:d3:168:VAL:HG21	7:d3:224:ILE:CD1	2.44	0.47
7:j3:108:ASN:HB3	7:j3:138:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l3:80:VAL:HG23	7:l3:153:ASP:O	2.15	0.47
7:u3:133:GLY:H	7:u3:152:VAL:HG23	1.79	0.47
7:w3:209:ILE:HD11	7:w3:213:GLY:HA2	1.96	0.47
7:x3:154:PRO:O	7:x3:156:THR:HG23	2.13	0.47
7:y3:88:LEU:N	7:y3:121:GLY:O	2.42	0.47
7:73:56:LYS:NZ	7:73:215:GLU:OE1	2.34	0.47
7:73:157:SER:O	7:73:158:GLU:HG2	2.15	0.47
7:93:208:ALA:HB3	7:93:216:PHE:HB2	1.95	0.47
7:A3:138:TRP:CE3	7:A3:147:GLU:HB3	2.50	0.47
7:C3:157:SER:O	7:C3:158:GLU:HG2	2.15	0.47
7:D3:138:TRP:CE3	7:D3:147:GLU:HB3	2.50	0.47
1:a5:9:LEU:HD21	6:l5:98:PHE:HD1	1.80	0.47
1:d5:6:CYS:HB3	6:q5:98:PHE:O	2.14	0.47
5:g5:300:GLU:O	5:g5:301:ASN:C	2.57	0.47
5:g5:302:CYS:O	5:g5:303:PHE:C	2.57	0.47
5:h5:303:PHE:HD2	5:h5:456:CYS:HB2	1.78	0.47
5:h5:341:ARG:HA	5:h5:379:ARG:HB3	1.96	0.47
5:k5:270:ILE:HG22	8:AA:29:ARG:HB3	1.96	0.47
6:p5:37:THR:HG23	6:p5:95:PRO:HG3	1.97	0.47
5:k6:427:MET:HA	5:k6:447:ALA:HB2	1.97	0.47
5:o6:207:PHE:N	5:o6:242:GLY:O	2.48	0.47
5:o6:247:TYR:N	5:o6:447:ALA:O	2.48	0.47
6:s6:52:HIS:HB2	6:s6:110:TRP:NE1	2.30	0.47
6:v6:12:PHE:O	6:v6:129:THR:OG1	2.22	0.47
1:b7:16:SER:HB2	5:g7:395:LYS:HD3	1.96	0.47
5:o7:334:PRO:HD3	5:o7:460:ARG:HH22	1.79	0.47
6:q7:62:PRO:HB3	6:q7:110:TRP:CD2	2.50	0.47
5:r7:387:PRO:HD2	5:r7:408:PHE:CD1	2.50	0.47
6:v7:24:LYS:HE2	6:v7:26:ASP:HB3	1.97	0.47
8:AB:276:ILE:HG22	8:AC:243:TRP:HB2	1.96	0.47
8:AC:359:SER:OG	8:AC:368:ARG:HB2	2.15	0.47
8:AE:228:MET:HE1	8:AE:297:HIS:HB2	1.96	0.47
8:AF:130:LYS:HB3	8:AF:143:TRP:HB2	1.96	0.47
8:AG:68:VAL:O	8:AG:71:VAL:HG12	2.15	0.47
8:AG:192:TYR:HE2	8:AG:194:PHE:HE1	1.62	0.47
8:AI:163:PHE:CE2	8:AI:193:ALA:HB3	2.50	0.47
8:AK:140:ASN:HD22	8:AL:18:PRO:HG3	1.78	0.47
8:AK:247:ALA:HB1	8:AK:251:LEU:HD12	1.95	0.47
10:AU:65:THR:OG1	10:AU:118:ASN:OD1	2.32	0.47
9:AR:54:LEU:HD23	9:AR:55:VAL:N	2.29	0.47
3:AN:6:ARG:HA	3:AN:38:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AS:128:THR:H	10:Aa:6:GLN:NE2	2.12	0.47
10:AV:96:VAL:HG12	10:AV:127:LEU:HB3	1.96	0.47
10:Ab:87:VAL:HG23	10:Ab:99:LEU:HB3	1.96	0.47
2:b:50:PRO:HB3	2:b:138:ASN:N	2.30	0.47
2:b:57:PRO:HA	2:b:127:MET:HA	1.97	0.47
2:b:61:LYS:NZ	2:b:68:ILE:HG22	2.30	0.47
2:b:199:ARG:HG2	8:AI:255:GLN:NE2	2.30	0.47
2:i:82:TYR:CE2	2:i:127:MET:HE3	2.49	0.47
2:k:7:LEU:HD11	2:k:149:LEU:HD21	1.96	0.47
2:k:134:ARG:HG2	2:k:135:ARG:H	1.80	0.47
1:b1:19:VAL:HG11	5:g1:396:GLY:N	2.30	0.47
5:o1:398:THR:OG1	5:o1:399:GLY:N	2.48	0.47
5:r1:213:ALA:HB3	5:r1:236:ASN:HB2	1.95	0.47
6:t1:74:CYS:SG	6:t1:75:ASP:N	2.87	0.47
1:a2:4:LEU:O	1:a2:5:ASN:OD1	2.32	0.47
7:J3:133:GLY:H	7:J3:152:VAL:HG23	1.80	0.47
7:P3:88:LEU:N	7:P3:121:GLY:O	2.48	0.47
7:W3:88:LEU:HD12	7:W3:91:LEU:HD12	1.96	0.47
7:a3:59:PHE:CD1	7:a3:204:VAL:HG12	2.50	0.47
7:o3:77:ARG:NH2	7:o3:158:GLU:OE1	2.48	0.47
7:v3:21:SER:OG	7:v3:22:CYS:N	2.46	0.47
7:93:92:PHE:HB2	7:93:141:ILE:HG21	1.96	0.47
7:03:136:ARG:HG2	7:03:149:VAL:HG22	1.96	0.47
7:03:210:ASP:OD2	7:03:214:ASN:ND2	2.35	0.47
7:B3:133:GLY:H	7:B3:152:VAL:HG23	1.79	0.47
1:d5:29:VAL:HG23	1:d5:32:SER:HB3	1.97	0.47
6:t5:74:CYS:SG	6:t5:75:ASP:N	2.87	0.47
5:h6:303:PHE:HD2	5:h6:456:CYS:HB2	1.79	0.47
8:AD:363:CYS:SG	8:AD:364:GLY:N	2.88	0.47
8:AG:149:PHE:HE2	8:AH:25:ILE:HD12	1.78	0.47
8:AJ:363:CYS:SG	8:AJ:364:GLY:N	2.88	0.47
8:AK:127:MET:HB2	8:AK:196:ILE:HD13	1.97	0.47
10:AY:90:GLU:HG3	10:AY:96:VAL:HG22	1.97	0.47
9:AX:94:ARG:HG3	9:AX:94:ARG:HH21	1.80	0.47
1:f:17:ARG:C	1:f:18:LEU:HD12	2.40	0.47
1:f:24:PHE:CZ	5:k2:360:GLY:HA2	2.50	0.47
2:a:199:ARG:HG2	8:AE:255:GLN:NE2	2.29	0.47
2:l:67:ILE:O	2:l:67:ILE:HG13	2.15	0.47
2:j:135:ARG:HD3	7:K3:17:ASP:O	2.15	0.47
2:k:25:THR:OG1	2:k:26:ASP:N	2.48	0.47
2:m:185:ALA:O	2:m:191:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g1:238:ARG:HH21	5:g1:240:LEU:HD21	1.80	0.47
5:g1:436:SER:OG	5:g1:442:LYS:N	2.47	0.47
5:h2:407:SER:OG	5:h2:408:PHE:N	2.47	0.47
5:k2:309:LEU:HD12	5:k2:310:PRO:HD2	1.96	0.47
5:n2:247:TYR:N	5:n2:447:ALA:O	2.35	0.47
5:r2:193:LEU:HD21	5:r2:383:SER:HB2	1.95	0.47
7:U3:24:CYS:HB2	7:U3:223:ASP:OD1	2.14	0.47
7:c3:206:GLN:OE1	7:c3:207:VAL:N	2.47	0.47
7:e3:79:LYS:HD2	7:e3:153:ASP:HB2	1.96	0.47
7:f3:71:VAL:HG12	7:f3:92:PHE:HD1	1.79	0.47
7:g3:209:ILE:HD11	7:g3:213:GLY:HA2	1.97	0.47
7:x3:24:CYS:HB2	7:x3:223:ASP:OD1	2.15	0.47
7:y3:154:PRO:O	7:y3:156:THR:HG23	2.15	0.47
7:23:108:ASN:HB3	7:23:138:TRP:CD1	2.50	0.47
7:33:79:LYS:HD3	7:33:153:ASP:HB2	1.97	0.47
7:53:30:ARG:HD2	7:53:230:GLY:H	1.80	0.47
6:s5:50:PHE:HE2	6:s5:114:ALA:HB3	1.80	0.47
5:g6:361:ARG:HD3	5:h6:361:ARG:HH21	1.80	0.47
1:d7:6:CYS:HA	6:q7:99:CYS:HA	1.96	0.47
5:k7:196:LEU:HD13	5:k7:415:TRP:CD1	2.50	0.47
5:r7:241:GLU:CG	6:t7:134:GLY:HA2	2.44	0.47
8:AC:279:ILE:HB	8:AD:246:THR:HG22	1.97	0.47
8:AJ:242:LYS:HG2	8:AJ:243:TRP:HD1	1.80	0.47
8:AK:170:GLY:H	8:AL:28:ARG:CZ	2.28	0.47
9:AR:90:ARG:NH1	9:AR:98:GLU:OE2	2.48	0.47
9:AT:11:VAL:HG22	9:AT:151:GLN:HE22	1.80	0.47
9:AT:82:VAL:HG13	9:AT:147:PHE:HB2	1.96	0.47
2:l:71:ALA:HB3	2:l:130:TYR:HE2	1.80	0.47
2:n:61:LYS:HD2	2:n:62:GLY:H	1.80	0.47
6:l1:73:PHE:O	6:l1:75:ASP:N	2.47	0.47
5:o1:189:GLU:HG2	5:o1:190:CYS:N	2.28	0.47
6:p1:103:VAL:HG12	6:p1:105:CYS:H	1.80	0.47
6:s1:52:HIS:ND1	6:s1:64:PRO:O	2.36	0.47
1:a2:27:ARG:HD3	5:n2:311:VAL:HG22	1.97	0.47
5:g2:295:LYS:HB3	5:g2:300:GLU:OE2	2.15	0.47
5:o2:328:ARG:NH2	5:r2:393:ASN:OD1	2.48	0.47
6:s2:123:ALA:O	6:s2:126:VAL:HG12	2.15	0.47
7:K3:71:VAL:HG11	7:K3:141:ILE:HB	1.97	0.47
7:K3:154:PRO:HG2	7:K3:156:THR:HG22	1.96	0.47
7:O3:184:LEU:HD12	7:O3:206:GLN:NE2	2.30	0.47
7:Q3:64:VAL:HG23	7:Q3:199:VAL:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T3:154:PRO:O	7:T3:155:THR:HG22	2.15	0.47
7:a3:157:SER:O	7:a3:158:GLU:HG2	2.14	0.47
7:j3:154:PRO:O	7:j3:155:THR:HG22	2.15	0.47
7:u3:50:GLY:HA2	7:u3:211:CYS:SG	2.55	0.47
7:y3:71:VAL:HG12	7:y3:92:PHE:HB2	1.97	0.47
7:13:209:ILE:HD11	7:13:213:GLY:HA2	1.97	0.47
7:63:88:LEU:N	7:63:121:GLY:O	2.42	0.47
7:A3:153:ASP:HA	7:A3:159:LEU:HD23	1.96	0.47
7:E3:207:VAL:HA	7:E3:217:VAL:HA	1.96	0.47
6:v5:24:LYS:HE2	6:v5:26:ASP:HB3	1.96	0.47
5:g6:185:ASP:HA	5:r6:212:ILE:HG23	1.97	0.47
5:h7:253:PHE:CE2	5:h7:266:LEU:HD13	2.50	0.47
6:p7:75:ASP:O	6:p7:76:THR:C	2.56	0.47
8:AD:282:THR:HG23	8:AE:249:ARG:HD3	1.96	0.47
8:AF:26:PHE:O	8:AF:31:PHE:N	2.47	0.47
8:AF:282:THR:O	8:AF:284:VAL:N	2.45	0.47
8:AF:343:GLU:OE2	8:AF:347:GLU:HG3	2.15	0.47
8:AG:223:LEU:O	8:AG:227:LEU:HG	2.14	0.47
8:AI:172:GLU:HG2	8:AI:172:GLU:O	2.14	0.47
3:AO:15:GLN:OE1	3:AO:80:TRP:NE1	2.39	0.47
2:n:38:GLU:HA	2:n:41:GLU:HG2	1.96	0.46
2:n:60:LEU:HA	2:n:67:ILE:HG22	1.97	0.46
2:j:115:GLY:HA2	5:k6:252:CYS:O	2.15	0.46
5:o1:297:TRP:H	5:o1:297:TRP:CD1	2.32	0.46
5:r1:237:ILE:HG13	5:r1:238:ARG:H	1.80	0.46
6:s1:70:GLU:HB3	6:s1:85:ALA:HA	1.97	0.46
6:v1:48:ASN:HD22	6:v1:67:ARG:HH12	1.62	0.46
5:n2:329:PHE:CD2	5:n2:462:LEU:HD22	2.50	0.46
7:T3:108:ASN:HB3	7:T3:138:TRP:CD1	2.50	0.46
7:U3:205:ARG:HB3	7:V3:107:LEU:HD12	1.97	0.46
7:V3:154:PRO:O	7:V3:156:THR:HG23	2.16	0.46
7:X3:6:VAL:HG21	7:X3:218:HIS:CE1	2.50	0.46
7:b3:133:GLY:H	7:b3:152:VAL:HG23	1.79	0.46
7:k3:78:THR:HB	7:k3:84:PHE:HD2	1.80	0.46
7:w3:139:PHE:HE1	7:w3:148:TYR:HB2	1.80	0.46
7:y3:77:ARG:NH1	7:y3:159:LEU:O	2.47	0.46
7:z3:38:MET:HE3	7:z3:183:VAL:HG11	1.97	0.46
7:33:209:ILE:HG12	7:33:210:ASP:O	2.16	0.46
7:53:132:THR:HA	7:53:152:VAL:HG13	1.96	0.46
7:83:2:TYR:HB2	7:83:37:VAL:HG22	1.96	0.46
7:93:172:ALA:O	7:93:175:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:209:ILE:HD11	7:C3:213:GLY:HA2	1.96	0.46
7:D3:78:THR:HG23	7:D3:152:VAL:HG12	1.96	0.46
7:G3:60:GLU:HB3	7:G3:203:THR:OG1	2.14	0.46
5:k5:213:ALA:HB3	5:k5:236:ASN:HB3	1.97	0.46
6:s5:34:THR:HG21	6:t5:11:SER:H	1.80	0.46
6:s5:135:ALA:O	6:s5:136:THR:OG1	2.33	0.46
5:n6:196:LEU:HD23	5:n6:341:ARG:HD2	1.96	0.46
5:o6:297:TRP:CD1	5:o6:297:TRP:H	2.32	0.46
5:o6:432:TYR:HB2	5:o6:444:GLN:HB2	1.97	0.46
6:t6:54:PRO:HD3	6:t6:109:GLN:HG3	1.97	0.46
6:u6:30:GLN:HG3	6:v6:2:ASN:HA	1.97	0.46
5:o7:344:MET:HE3	5:o7:349:PHE:HB2	1.97	0.46
5:r7:217:GLN:NE2	5:r7:233:GLU:OE1	2.48	0.46
8:AD:347:GLU:HB3	8:AD:348:PRO:HD3	1.95	0.46
8:AE:187:ARG:HH21	8:AE:364:GLY:H	1.63	0.46
8:AE:347:GLU:HA	8:AE:351:LEU:HD12	1.97	0.46
8:AF:128:ALA:HB1	8:AF:145:LEU:HD12	1.98	0.46
8:AF:129:PHE:HB2	8:AF:194:PHE:CD2	2.50	0.46
8:AH:359:SER:OG	8:AH:368:ARG:HB2	2.15	0.46
8:AJ:97:LEU:HA	8:AJ:100:ILE:HG22	1.96	0.46
9:AQ:51:PRO:HA	9:AQ:85:ASN:O	2.15	0.46
9:AR:38:VAL:HG11	9:AR:81:ILE:HG13	1.97	0.46
9:AW:31:ARG:NH1	9:AW:51:PRO:O	2.48	0.46
2:a:65:GLY:HA3	2:a:103:PHE:CE1	2.51	0.46
2:p:68:ILE:HG22	2:p:100:VAL:HG12	1.97	0.46
2:h:154:TRP:HZ2	2:h:182:ASN:HA	1.80	0.46
2:h:159:PRO:HG2	2:h:161:ASP:OD1	2.15	0.46
2:k:11:THR:HA	2:k:14:GLU:HG2	1.96	0.46
5:h1:212:ILE:HD11	5:k1:185:ASP:HB3	1.98	0.46
5:k1:213:ALA:HB3	5:k1:236:ASN:HB3	1.98	0.46
5:o1:241:GLU:HB2	6:u1:135:ALA:HB2	1.97	0.46
5:o1:281:ARG:HH21	5:o1:449:ASP:HB2	1.80	0.46
6:v1:27:GLY:O	6:v1:136:THR:OG1	2.31	0.46
5:g2:344:MET:HE2	5:g2:380:ILE:HG21	1.96	0.46
5:h2:200:ILE:O	8:AE:29:ARG:NH1	2.48	0.46
5:r2:308:THR:HG22	5:r2:464:ILE:HA	1.97	0.46
6:s2:18:GLU:OE1	6:s2:18:GLU:N	2.49	0.46
7:T3:31:PRO:HG3	7:T3:226:ILE:HD11	1.97	0.46
7:V3:138:TRP:CZ3	7:V3:147:GLU:HB3	2.50	0.46
7:a3:207:VAL:HB	7:a3:215:GLU:OE1	2.15	0.46
7:c3:71:VAL:HG12	7:c3:92:PHE:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:209:ILE:HD11	7:d3:213:GLY:HA2	1.97	0.46
7:e3:154:PRO:O	7:e3:155:THR:HG22	2.14	0.46
7:i3:38:MET:HG2	7:i3:185:LYS:HG2	1.97	0.46
7:m3:209:ILE:HD11	7:m3:213:GLY:HA2	1.96	0.46
7:p3:154:PRO:O	7:p3:155:THR:HG22	2.15	0.46
7:83:53:LEU:HD23	7:83:206:GLN:NE2	2.30	0.46
7:03:157:SER:O	7:03:158:GLU:HG2	2.15	0.46
7:C3:171:PRO:HG2	7:C3:174:ARG:HD3	1.98	0.46
7:E3:108:ASN:HB3	7:E3:138:TRP:CD1	2.50	0.46
7:G3:132:THR:HA	7:G3:152:VAL:HG23	1.97	0.46
5:k5:188:ILE:HG22	5:k5:189:GLU:O	2.15	0.46
5:k5:193:LEU:HD13	5:k5:196:LEU:HD13	1.97	0.46
1:a6:19:VAL:HG12	5:n6:394:THR:HA	1.96	0.46
5:g6:220:GLU:HA	5:h6:247:TYR:HE1	1.80	0.46
5:h6:247:TYR:O	5:h6:447:ALA:N	2.45	0.46
5:n6:336:GLU:OE1	5:n6:336:GLU:N	2.32	0.46
5:o6:267:SER:HA	5:o6:270:ILE:HD11	1.96	0.46
5:g7:274:GLN:NE2	5:g7:427:MET:SD	2.88	0.46
5:h7:436:SER:OG	5:h7:441:VAL:HA	2.15	0.46
5:o7:398:THR:OG1	5:o7:399:GLY:N	2.48	0.46
6:u7:9:PHE:CE1	6:u7:133:LYS:HA	2.50	0.46
8:AF:68:VAL:HG11	8:AF:118:ALA:HB2	1.97	0.46
8:AF:290:LYS:HE3	8:AF:292:ASP:H	1.79	0.46
8:AH:37:LYS:H	8:AH:37:LYS:HZ3	1.63	0.46
8:AH:251:LEU:HD23	8:AH:251:LEU:HA	1.74	0.46
8:AH:361:PHE:O	8:AH:362:LEU:HD12	2.15	0.46
8:AL:71:VAL:HG11	8:AL:351:LEU:HD11	1.97	0.46
8:AL:263:ILE:CD1	8:AL:277:ILE:HG21	2.45	0.46
3:AM:39:ILE:HG22	3:AM:65:ILE:HD12	1.97	0.46
3:AP:15:GLN:OE1	3:AP:80:TRP:NE1	2.45	0.46
3:AO:101:VAL:HG21	3:AO:107:TYR:HB2	1.96	0.46
2:l:9:LEU:HD23	2:l:12:ILE:HD12	1.97	0.46
2:p:47:SER:OG	2:p:134:ARG:HG3	2.15	0.46
2:h:69:LEU:O	2:h:99:ASN:ND2	2.48	0.46
2:j:175:GLN:HG3	2:j:176:GLY:H	1.79	0.46
3:H:32:VAL:HG12	3:H:33:ILE:HG13	1.96	0.46
3:H:46:ARG:NE	3:AO:77:VAL:HG23	2.30	0.46
6:m1:74:CYS:HB2	5:h6:252:CYS:SG	2.55	0.46
5:n1:294:PRO:HG3	5:n1:450:GLY:HA2	1.98	0.46
5:r1:195:ASP:OD1	5:r1:195:ASP:N	2.41	0.46
5:r1:316:THR:HG22	5:r1:317:SER:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s1:91:GLU:OE2	6:s1:92:THR:N	2.40	0.46
7:P3:38:MET:HG2	7:P3:185:LYS:HG2	1.98	0.46
7:T3:134:VAL:HA	7:T3:151:SER:HA	1.97	0.46
7:V3:167:PRO:HA	7:V3:191:SER:HB3	1.97	0.46
7:X3:30:ARG:HD2	7:X3:230:GLY:H	1.79	0.46
7:a3:209:ILE:HD11	7:a3:213:GLY:HA2	1.97	0.46
7:q3:132:THR:HA	7:q3:152:VAL:HG23	1.97	0.46
7:s3:171:PRO:HD2	7:s3:187:VAL:HG23	1.97	0.46
7:53:168:VAL:HG11	7:53:224:ILE:HD12	1.96	0.46
5:k5:207:PHE:HB2	5:n5:180:LEU:HD22	1.95	0.46
5:n5:212:ILE:HG13	5:o5:183:GLU:OE1	2.15	0.46
5:o5:193:LEU:HD22	5:o5:343:VAL:HG21	1.96	0.46
4:f6:17:GLN:HG3	5:h6:324:GLN:CD	2.41	0.46
5:o6:370:THR:OG1	5:o6:372:THR:HG23	2.15	0.46
5:k7:197:TYR:O	5:k7:199:GLN:NE2	2.41	0.46
8:AA:363:CYS:SG	8:AA:364:GLY:N	2.88	0.46
8:AD:127:MET:HE1	8:AD:354:LEU:HD12	1.97	0.46
8:AE:121:TRP:CE3	8:AE:127:MET:HG3	2.50	0.46
8:AH:54:HIS:HB3	8:AH:57:ALA:HB3	1.97	0.46
8:AI:363:CYS:SG	8:AI:364:GLY:N	2.89	0.46
8:AL:355:GLU:OE1	8:AL:369:VAL:HG22	2.16	0.46
10:AU:40:TYR:OH	10:AU:89:VAL:HG11	2.15	0.46
10:AU:81:GLY:HA2	10:AU:104:VAL:HB	1.97	0.46
9:AR:35:VAL:CG2	9:AR:54:LEU:HD21	2.45	0.46
9:AX:11:VAL:HG22	9:AX:151:GLN:HE22	1.80	0.46
1:g:10:CYS:SG	1:g:11:GLN:N	2.88	0.46
2:a:7:LEU:CD2	2:a:12:ILE:HD11	2.45	0.46
2:q:65:GLY:O	2:q:103:PHE:N	2.46	0.46
2:m:34:GLU:O	2:m:38:GLU:HG2	2.16	0.46
1:a1:19:VAL:HG12	5:n1:394:THR:HA	1.97	0.46
5:k1:321:PHE:HE2	5:k1:352:LEU:HD21	1.81	0.46
6:l1:30:GLN:CB	6:l1:133:LYS:HB3	2.45	0.46
5:n1:240:LEU:HA	6:p1:135:ALA:HB3	1.97	0.46
5:r1:364:PHE:HB3	5:r1:371:PHE:CE1	2.51	0.46
5:g2:322:LEU:HD23	5:g2:323:ALA:N	2.30	0.46
5:h2:246:ASP:HB3	5:h2:448:GLU:HG2	1.97	0.46
6:p2:46:THR:HA	6:p2:88:THR:HA	1.97	0.46
6:s2:28:PHE:HB2	6:s2:132:MET:HE2	1.96	0.46
7:N3:154:PRO:O	7:N3:156:THR:HG23	2.16	0.46
7:R3:136:ARG:HG2	7:R3:149:VAL:HG23	1.97	0.46
7:S3:138:TRP:CZ3	7:S3:147:GLU:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T3:7:ASP:OD2	7:T3:9:ARG:NH1	2.40	0.46
7:f3:54:THR:OG1	7:f3:207:VAL:HG13	2.15	0.46
7:l3:90:ASP:OD1	7:l3:90:ASP:N	2.48	0.46
7:u3:29:ALA:O	7:u3:226:ILE:HD12	2.15	0.46
7:73:210:ASP:OD2	7:73:214:ASN:ND2	2.39	0.46
7:E3:92:PHE:HB2	7:E3:141:ILE:HG21	1.98	0.46
1:d6:27:ARG:NH1	5:o6:322:LEU:HD21	2.30	0.46
5:r6:387:PRO:HD2	5:r6:408:PHE:HD1	1.80	0.46
6:s6:64:PRO:HG2	6:s6:66:ILE:HD11	1.96	0.46
6:l7:100:ALA:HB1	6:m7:6:GLY:HA3	1.98	0.46
5:o7:210:MET:SD	5:o7:239:HIS:ND1	2.89	0.46
6:p7:129:THR:HB	6:q7:13:ILE:HD11	1.97	0.46
8:AA:29:ARG:HA	8:AA:29:ARG:NH2	2.29	0.46
8:AH:28:ARG:HG3	8:AH:29:ARG:N	2.24	0.46
8:AJ:152:GLN:HB3	8:AJ:163:PHE:CD1	2.51	0.46
8:AK:251:LEU:O	8:AK:255:GLN:HG3	2.15	0.46
8:AL:100:ILE:HD12	8:AL:103:ARG:O	2.15	0.46
2:b:191:GLN:HA	2:b:194:TRP:CD1	2.50	0.46
2:n:163:VAL:HG23	2:n:164:MET:H	1.81	0.46
2:n:166:VAL:HG23	2:q:177:LEU:HB3	1.98	0.46
2:k:79:VAL:HG23	2:k:130:TYR:HB3	1.97	0.46
2:k:167:ARG:HD2	2:k:167:ARG:HA	1.48	0.46
2:m:94:PRO:HB3	2:m:101:LEU:HD11	1.96	0.46
3:I:66:THR:HA	3:I:108:MET:O	2.16	0.46
5:g1:334:PRO:HD3	5:g1:460:ARG:HH12	1.80	0.46
5:h1:247:TYR:HE2	5:h1:277:HIS:HB2	1.81	0.46
5:h1:361:ARG:HE	5:k1:361:ARG:HH22	1.63	0.46
5:o1:207:PHE:N	5:o1:242:GLY:O	2.48	0.46
6:q1:50:PHE:HE2	6:q1:114:ALA:HB3	1.79	0.46
5:r1:390:THR:HA	5:r1:395:LYS:HB3	1.96	0.46
6:t1:35:PHE:CD1	6:t1:128:ILE:HG12	2.50	0.46
5:k2:428:PHE:HD2	5:k2:430:GLU:HG2	1.80	0.46
7:O3:35:ASN:HB3	7:O3:188:LEU:HD21	1.97	0.46
7:Q3:88:LEU:HD12	7:Q3:91:LEU:HD12	1.98	0.46
7:W3:20:GLY:O	7:W3:21:SER:C	2.56	0.46
7:W3:219:ILE:HD11	7:X3:30:ARG:HG2	1.98	0.46
7:Y3:21:SER:OG	7:Y3:22:CYS:N	2.45	0.46
7:e3:210:ASP:HB3	7:e3:216:PHE:HE2	1.80	0.46
7:k3:161:GLN:HE22	7:k3:164:PHE:HE2	1.63	0.46
7:l3:133:GLY:H	7:l3:152:VAL:HG23	1.80	0.46
7:s3:21:SER:OG	7:s3:22:CYS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:u3:154:PRO:O	7:u3:155:THR:HG22	2.16	0.46
7:63:35:ASN:OD1	7:63:36:GLY:N	2.44	0.46
5:n5:223:CYS:SG	5:n5:224:ASP:N	2.89	0.46
5:n5:439:TRP:NE1	5:g7:248:ARG:HH21	2.13	0.46
6:p5:56:ASP:N	6:p5:56:ASP:OD1	2.48	0.46
6:u5:9:PHE:CE1	6:u5:133:LYS:HG3	2.50	0.46
6:v5:67:ARG:NH1	6:v5:84:LEU:HD12	2.30	0.46
1:d7:19:VAL:O	5:n7:328:ARG:NH1	2.48	0.46
5:r7:178:GLN:NE2	5:r7:179:VAL:O	2.49	0.46
8:AB:172:GLU:O	8:AB:172:GLU:HG2	2.16	0.46
8:AB:402:ARG:HH21	8:AB:407:TRP:HB3	1.80	0.46
8:AC:393:VAL:HG21	8:AC:396:ILE:HD12	1.97	0.46
8:AG:75:VAL:H	8:AG:98:GLN:NE2	2.13	0.46
8:AG:107:THR:O	8:AG:108:MET:HG3	2.16	0.46
8:AH:182:LYS:HA	8:AH:188:PRO:HA	1.97	0.46
8:AI:289:MET:HE2	8:AI:289:MET:HA	1.97	0.46
8:AK:83:GLN:HE21	8:AK:366:GLY:H	1.64	0.46
8:AK:363:CYS:SG	8:AK:364:GLY:N	2.89	0.46
3:AM:54:MET:HG2	9:AQ:139:GLU:HG2	1.97	0.46
10:AU:32:GLN:HG3	10:AU:33:PRO:HD2	1.98	0.46
10:AU:96:VAL:HG12	10:AU:127:LEU:CB	2.45	0.46
9:AR:35:VAL:HG22	9:AR:54:LEU:HD21	1.96	0.46
10:AY:99:LEU:HD12	10:AY:124:ILE:HG12	1.97	0.46
10:Ab:17:THR:HG22	10:Ab:24:VAL:HG12	1.97	0.46
2:l:148:ILE:O	2:l:152:ILE:HG12	2.16	0.46
2:j:185:ALA:O	2:j:191:GLN:HG2	2.15	0.46
1:d1:13:PRO:HD3	5:n1:301:ASN:HD21	1.80	0.46
5:k1:284:ALA:O	5:k1:288:GLY:N	2.49	0.46
5:n1:246:ASP:HA	5:n1:448:GLU:HA	1.96	0.46
5:n1:439:TRP:NE1	5:g6:248:ARG:HH21	2.13	0.46
5:g2:188:ILE:HD12	5:g2:188:ILE:HA	1.74	0.46
6:q2:43:ALA:H	6:q2:122:ASN:ND2	2.14	0.46
5:r2:253:PHE:HB2	5:r2:441:VAL:HG13	1.97	0.46
6:u2:43:ALA:H	6:u2:122:ASN:ND2	2.13	0.46
7:O3:133:GLY:H	7:O3:152:VAL:HG23	1.81	0.46
7:Y3:35:ASN:OD1	7:Y3:36:GLY:N	2.43	0.46
7:b3:39:VAL:HG13	7:b3:184:LEU:HB3	1.98	0.46
7:e3:218:HIS:HA	7:f3:33:GLU:OE1	2.15	0.46
7:g3:157:SER:O	7:g3:158:GLU:HG2	2.15	0.46
7:h3:136:ARG:HG2	7:h3:149:VAL:HG23	1.98	0.46
7:i3:62:ASP:O	7:i3:201:ARG:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:i3:217:VAL:H	7:j3:34:VAL:HB	1.80	0.46
7:k3:27:ILE:HD13	7:k3:222:TYR:HB3	1.97	0.46
7:l3:9:ARG:HH22	7:m3:230:GLY:HA2	1.81	0.46
7:63:210:ASP:HB3	7:63:216:PHE:HE2	1.80	0.46
7:73:118:GLY:HA3	7:73:122:ALA:HB3	1.98	0.46
7:03:209:ILE:HD11	7:03:213:GLY:HA2	1.97	0.46
7:03:210:ASP:HB3	7:03:216:PHE:HE2	1.81	0.46
7:C3:133:GLY:H	7:C3:152:VAL:HG23	1.81	0.46
7:E3:9:ARG:NH2	7:F3:230:GLY:HA2	2.31	0.46
5:h5:256:LYS:NZ	5:k6:246:ASP:HB3	2.31	0.46
6:m5:103:VAL:HG22	6:m5:105:CYS:H	1.80	0.46
5:r5:316:THR:HG22	5:r5:317:SER:N	2.30	0.46
6:s5:35:PHE:N	6:s5:99:CYS:O	2.46	0.46
6:s5:47:PHE:HZ	6:s5:126:VAL:HG21	1.79	0.46
6:l6:47:PHE:HB2	6:l6:87:VAL:HG13	1.97	0.46
6:q6:70:GLU:HB3	6:q6:85:ALA:HB2	1.96	0.46
5:g7:308:THR:OG1	5:g7:309:LEU:N	2.49	0.46
5:n7:247:TYR:N	5:n7:447:ALA:O	2.42	0.46
8:AB:71:VAL:HG22	8:AB:371:PHE:HB2	1.97	0.46
8:AK:103:ARG:HH22	8:AL:365:ALA:HA	1.81	0.46
8:AL:292:ASP:N	8:AL:292:ASP:OD2	2.48	0.46
9:AS:13:LEU:HB2	9:AS:14:PRO:HD3	1.97	0.46
10:Aa:47:ASN:HB2	10:AY:105:VAL:HA	1.98	0.46
2:a:92:LEU:HG	2:n:125:GLN:HE22	1.79	0.46
2:l:187:ILE:HG21	2:p:163:VAL:HB	1.97	0.46
2:p:170:LEU:HD21	2:k:172:ALA:HB2	1.98	0.46
2:q:178:ILE:HG22	2:m:178:ILE:HB	1.96	0.46
6:l1:91:GLU:HG3	6:l1:92:THR:HG23	1.96	0.46
6:s1:34:THR:HG21	6:t1:11:SER:H	1.81	0.46
5:h2:253:PHE:HB2	5:h2:441:VAL:CG2	2.45	0.46
5:k2:339:GLU:OE2	5:k2:379:ARG:NH2	2.49	0.46
5:k2:386:LEU:HD23	5:k2:408:PHE:HE1	1.81	0.46
6:u2:23:VAL:HG21	6:u2:130:VAL:HG11	1.98	0.46
7:L3:6:VAL:HG21	7:L3:218:HIS:CE1	2.51	0.46
7:L3:200:TYR:HB2	7:L3:224:ILE:HG23	1.98	0.46
7:R3:184:LEU:HD12	7:R3:206:GLN:NE2	2.31	0.46
7:S3:181:THR:HG23	7:S3:183:VAL:HG22	1.98	0.46
7:W3:39:VAL:CG2	7:W3:184:LEU:HB3	2.46	0.46
7:W3:71:VAL:HG13	7:W3:144:ASN:HB2	1.98	0.46
7:Z3:9:ARG:HH22	7:a3:230:GLY:HA2	1.79	0.46
7:a3:154:PRO:O	7:a3:155:THR:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b3:157:SER:O	7:b3:158:GLU:HG2	2.16	0.46
7:c3:157:SER:OG	7:c3:158:GLU:N	2.49	0.46
7:63:38:MET:HG2	7:63:185:LYS:HG2	1.97	0.46
7:93:35:ASN:OD1	7:93:36:GLY:N	2.44	0.46
7:G3:172:ALA:O	7:G3:175:ARG:NH1	2.46	0.46
5:h5:195:ASP:OD1	5:h5:195:ASP:N	2.38	0.46
6:t5:11:SER:OG	6:t5:131:THR:HG22	2.16	0.46
6:u5:127:GLN:NE2	6:v5:13:ILE:HB	2.28	0.46
5:k6:269:MET:HA	5:k6:272:ALA:HB3	1.97	0.46
1:e7:8:PRO:C	1:e7:9:LEU:HD12	2.41	0.46
5:g7:180:LEU:HD22	5:r7:207:PHE:HB2	1.97	0.46
5:k7:182:LEU:HG	5:k7:184:VAL:HG13	1.97	0.46
8:AC:130:LYS:O	8:AC:142:ILE:HA	2.15	0.46
8:AC:228:MET:O	8:AC:232:ILE:HG12	2.16	0.46
8:AE:99:GLN:NE2	8:AF:83:GLN:HB3	2.30	0.46
8:AG:172:GLU:O	8:AG:172:GLU:HG2	2.16	0.46
8:AK:100:ILE:HD12	8:AK:139:VAL:HG23	1.98	0.46
8:AL:73:TRP:CZ2	8:AL:114:ARG:HG2	2.51	0.46
8:AL:217:ILE:C	8:AL:220:PRO:HD2	2.41	0.46
10:AU:44:ALA:HB1	10:AU:60:SER:O	2.15	0.46
3:AP:118:SER:OG	3:AP:120:ASP:OD1	2.28	0.46
10:Aa:87:VAL:HG12	10:Aa:99:LEU:HD22	1.97	0.46
2:o:61:LYS:HZ1	8:AI:264:GLU:HG2	1.80	0.46
2:q:134:ARG:NH1	2:q:137:GLU:OE1	2.49	0.46
5:g1:370:THR:HG22	5:g1:372:THR:HG23	1.97	0.46
6:s1:135:ALA:O	6:s1:136:THR:OG1	2.34	0.46
6:s2:30:GLN:OE1	6:s2:133:LYS:HG2	2.16	0.46
6:s2:37:THR:HG22	6:s2:38:ILE:H	1.80	0.46
7:P3:90:ASP:OD1	7:P3:90:ASP:N	2.49	0.46
7:U3:157:SER:O	7:U3:158:GLU:HG2	2.16	0.46
7:e3:53:LEU:HB2	7:e3:177:VAL:HG21	1.97	0.46
7:e3:154:PRO:O	7:e3:156:THR:HG23	2.16	0.46
7:y3:194:ALA:HB1	7:y3:226:ILE:HG12	1.97	0.46
7:43:88:LEU:HG	7:43:141:ILE:HD11	1.97	0.46
7:63:108:ASN:HB3	7:63:138:TRP:CD1	2.51	0.46
7:E3:75:PHE:HD1	7:E3:149:VAL:HG13	1.81	0.46
6:l5:53:GLU:O	6:l5:63:GLY:N	2.47	0.46
5:o5:344:MET:HG2	5:o5:380:ILE:HD11	1.97	0.46
5:n6:455:CYS:HB2	5:n6:457:GLU:CD	2.41	0.46
4:f7:12:PRO:HA	5:h7:305:VAL:HG13	1.97	0.46
5:g7:250:VAL:HG12	5:g7:444:GLN:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p7:54:PRO:HD3	6:p7:109:GLN:HE21	1.81	0.46
8:AA:25:ILE:HD11	8:AL:165:TYR:CG	2.51	0.46
8:AB:128:ALA:HB1	8:AB:145:LEU:HD12	1.97	0.46
8:AB:338:ARG:NE	8:AC:344:ASP:OD2	2.49	0.46
8:AC:385:ASP:O	8:AC:389:THR:HG22	2.16	0.46
8:AD:277:ILE:HB	8:AE:244:LEU:HD13	1.98	0.46
8:AD:361:PHE:O	8:AD:362:LEU:HD12	2.15	0.46
8:AE:166:GLY:HA3	8:AF:28:ARG:NH2	2.30	0.46
8:AG:113:LEU:HD21	8:AG:144:PRO:HD3	1.98	0.46
8:AG:136:ASP:OD1	8:AG:138:SER:OG	2.22	0.46
8:AH:219:VAL:HB	8:AH:220:PRO:HD3	1.96	0.46
8:AH:315:ILE:HG13	8:AH:319:LEU:HD12	1.98	0.46
8:AJ:347:GLU:HB3	8:AJ:348:PRO:HD3	1.97	0.46
8:AK:348:PRO:HA	8:AK:352:THR:HG22	1.97	0.46
8:AL:97:LEU:HA	8:AL:100:ILE:HG22	1.97	0.46
3:AO:20:ASP:N	3:AO:24:ARG:O	2.45	0.46
2:a:74:ILE:HB	2:a:134:ARG:CD	2.46	0.46
2:a:177:LEU:N	2:j:165:SER:O	2.33	0.46
2:n:136:CYS:O	2:n:137:GLU:HB3	2.16	0.46
2:o:186:VAL:HA	2:o:191:GLN:CG	2.45	0.46
2:h:25:THR:OG1	2:h:27:ASP:OD1	2.28	0.46
3:H:43:LYS:HE3	3:H:60:GLN:HG2	1.96	0.46
3:H:67:MET:HG2	3:H:68:ASN:H	1.81	0.46
5:k2:182:LEU:HD23	5:k2:184:VAL:H	1.81	0.46
6:p2:127:GLN:NE2	6:q2:13:ILE:HB	2.22	0.46
7:L3:31:PRO:HG3	7:L3:226:ILE:HD11	1.97	0.46
7:Z3:90:ASP:OD1	7:Z3:90:ASP:N	2.49	0.46
7:a3:53:LEU:HB2	7:a3:177:VAL:HG21	1.97	0.46
7:d3:157:SER:OG	7:d3:158:GLU:N	2.46	0.46
7:h3:57:THR:HG21	7:h3:184:LEU:HD11	1.96	0.46
7:j3:38:MET:HG2	7:j3:185:LYS:HG2	1.98	0.46
7:w3:200:TYR:HB2	7:w3:224:ILE:HG23	1.98	0.46
7:93:88:LEU:N	7:93:121:GLY:O	2.41	0.46
7:E3:63:GLY:HA2	7:E3:200:TYR:HA	1.98	0.46
7:F3:157:SER:O	7:F3:158:GLU:HG2	2.16	0.46
4:f5:12:PRO:HA	5:h5:305:VAL:HG13	1.97	0.46
5:r5:196:LEU:HD11	5:r5:341:ARG:HD2	1.97	0.46
5:h6:285:LEU:HD12	5:h6:419:PHE:CE2	2.50	0.46
5:h6:336:GLU:HG3	5:k6:188:ILE:HG21	1.97	0.46
5:k6:243:LYS:HE3	6:m6:29:ASN:HB2	1.97	0.46
5:o6:328:ARG:NH1	5:r6:393:ASN:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a7:18:LEU:HG	5:k7:306:PHE:HB3	1.98	0.46
1:e7:27:ARG:NH1	5:r7:325:ASP:OD2	2.49	0.46
5:h7:223:CYS:O	5:k7:248:ARG:NH1	2.43	0.46
6:l7:9:PHE:CD1	6:l7:133:LYS:HA	2.51	0.46
6:m7:30:GLN:OE1	6:m7:133:LYS:HD3	2.16	0.46
5:o7:252:CYS:HB3	5:o7:442:LYS:HD3	1.98	0.46
5:r7:193:LEU:HD23	5:r7:193:LEU:H	1.80	0.46
8:AC:257:LYS:O	8:AC:261:GLU:HG2	2.16	0.46
8:AI:151:LYS:O	8:AI:164:GLN:N	2.38	0.46
8:AI:351:LEU:HB3	8:AI:371:PHE:CZ	2.51	0.46
9:AS:31:ARG:HH22	9:AS:50:LEU:HD12	1.81	0.46
1:f:27:ARG:HE	4:f2:17:GLN:NE2	2.14	0.46
2:l:53:THR:N	7:Q3:15:SER:OG	2.47	0.46
2:n:20:ASP:OD2	3:AO:105:SER:HB2	2.16	0.46
2:o:12:ILE:HG21	2:o:29:LEU:HD11	1.98	0.46
2:i:5:THR:HG23	2:i:6:LEU:HD12	1.98	0.46
2:k:139:SER:O	2:k:141:PRO:HD3	2.16	0.46
5:g1:323:ALA:HB2	5:g1:355:MET:SD	2.56	0.46
5:k1:374:ASP:N	5:k1:374:ASP:OD1	2.49	0.46
7:m3:132:THR:HA	7:m3:152:VAL:HG23	1.97	0.46
7:t3:133:GLY:H	7:t3:152:VAL:HG23	1.80	0.46
7:y3:108:ASN:HB3	7:y3:138:TRP:CD1	2.51	0.46
7:33:34:VAL:HB	7:G3:217:VAL:H	1.81	0.46
7:C3:88:LEU:HG	7:C3:141:ILE:HD11	1.98	0.46
7:C3:207:VAL:HB	7:C3:215:GLU:OE2	2.16	0.46
6:l5:48:ASN:OD1	6:l5:67:ARG:NH2	2.49	0.46
6:l5:55:SER:O	6:l5:56:ASP:C	2.59	0.46
5:n5:440:CYS:SG	5:n5:441:VAL:N	2.89	0.46
4:f6:24:ARG:HH11	5:k6:322:LEU:HD13	1.79	0.46
5:g6:286:MET:HB3	5:g6:298:LEU:HD13	1.98	0.46
5:g7:289:LYS:HB3	5:g7:289:LYS:HE2	1.70	0.46
5:k7:183:GLU:OE2	8:AC:29:ARG:NE	2.48	0.46
5:k7:332:SER:O	5:k7:332:SER:OG	2.33	0.46
8:AE:54:HIS:HB3	8:AE:57:ALA:HB3	1.97	0.46
8:AG:228:MET:O	8:AG:232:ILE:HG12	2.15	0.46
8:AJ:172:GLU:O	8:AJ:172:GLU:HG2	2.16	0.46
8:AK:63:LYS:O	8:AK:67:THR:HG23	2.16	0.46
9:AR:81:ILE:HG22	9:AR:148:ARG:HG3	1.98	0.46
9:AW:22:ALA:HB3	9:AW:23:PRO:HD3	1.98	0.46
10:AY:117:MET:HA	10:AY:117:MET:HE3	1.98	0.46
2:a:30:LYS:HD3	2:a:33:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:66:LYS:HD2	2:l:66:LYS:N	2.31	0.45
2:n:175:GLN:HE21	8:AF:283:ASP:CG	2.21	0.45
2:q:159:PRO:HG2	2:q:161:ASP:OD1	2.15	0.45
2:h:82:TYR:HA	2:h:86:LEU:HD23	1.97	0.45
2:m:73:PRO:O	2:m:74:ILE:C	2.59	0.45
5:g1:352:LEU:HA	5:g1:355:MET:HE3	1.97	0.45
5:n1:266:LEU:O	5:n1:270:ILE:HG12	2.16	0.45
6:s1:62:PRO:HA	6:s1:110:TRP:CZ2	2.51	0.45
6:t1:132:MET:N	6:t1:132:MET:SD	2.89	0.45
1:a2:2:VAL:HG21	6:l2:87:VAL:HB	1.98	0.45
5:k2:270:ILE:HD13	8:AF:29:ARG:NH1	2.30	0.45
6:p2:14:ALA:HB2	6:p2:130:VAL:HG13	1.98	0.45
5:r2:306:PHE:CE2	5:r2:460:ARG:HD3	2.50	0.45
5:r2:386:LEU:HD23	5:r2:408:PHE:CE1	2.50	0.45
7:J3:138:TRP:CZ3	7:J3:147:GLU:HB3	2.51	0.45
7:L3:108:ASN:HB3	7:L3:138:TRP:CD1	2.51	0.45
7:M3:61:ILE:HG21	7:M3:168:VAL:HG13	1.99	0.45
7:N3:29:ALA:HB2	7:N3:224:ILE:HD11	1.98	0.45
7:g3:133:GLY:H	7:g3:152:VAL:HG23	1.82	0.45
7:q3:64:VAL:HG23	7:q3:199:VAL:HG13	1.97	0.45
7:G3:153:ASP:HA	7:G3:159:LEU:HD23	1.98	0.45
6:l5:81:GLU:HG2	6:l5:82:ASP:N	2.31	0.45
5:r5:309:LEU:HD23	5:r5:309:LEU:H	1.80	0.45
6:m6:77:VAL:HG23	6:m6:78:LEU:HD22	1.98	0.45
6:u6:29:ASN:OD1	6:u6:29:ASN:N	2.49	0.45
6:v6:79:LEU:HD12	6:v6:81:GLU:N	2.31	0.45
5:g7:342:SER:OG	5:g7:380:ILE:HG12	2.16	0.45
5:h7:286:MET:HE3	5:h7:386:LEU:HD13	1.98	0.45
6:m7:58:ASP:HB3	6:m7:61:VAL:HG12	1.97	0.45
8:AD:219:VAL:HB	8:AD:220:PRO:HD3	1.98	0.45
8:AF:107:THR:O	8:AF:108:MET:HG2	2.15	0.45
8:AF:200:SER:HB2	8:AF:208:ASP:OD2	2.16	0.45
8:AG:165:TYR:CG	8:AH:25:ILE:HD11	2.52	0.45
8:AH:183:ASN:N	8:AH:187:ARG:O	2.43	0.45
8:AJ:128:ALA:HB1	8:AJ:145:LEU:HD12	1.99	0.45
8:AK:183:ASN:HD22	8:AK:187:ARG:HB2	1.80	0.45
2:q:67:ILE:O	2:q:67:ILE:HG13	2.16	0.45
2:j:190:ALA:HB1	2:j:194:TRP:CZ2	2.51	0.45
2:m:66:LYS:HE3	2:m:100:VAL:HB	1.96	0.45
5:o2:284:ALA:HB1	5:o2:294:PRO:HD2	1.98	0.45
5:o2:389:PRO:HG3	5:o2:409:VAL:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p2:47:PHE:HZ	6:p2:126:VAL:HG11	1.81	0.45
7:L3:118:GLY:HA3	7:L3:122:ALA:HB3	1.98	0.45
7:R3:168:VAL:HG11	7:R3:224:ILE:HD12	1.97	0.45
7:U3:79:LYS:HE3	7:U3:155:THR:HA	1.98	0.45
7:Y3:133:GLY:H	7:Y3:152:VAL:HG23	1.80	0.45
7:f3:88:LEU:N	7:f3:121:GLY:O	2.49	0.45
7:f3:154:PRO:O	7:f3:156:THR:HG23	2.16	0.45
7:p3:71:VAL:HG12	7:p3:92:PHE:HB2	1.99	0.45
7:43:118:GLY:HA3	7:43:122:ALA:HB3	1.98	0.45
7:C3:200:TYR:HB2	7:C3:224:ILE:HB	1.96	0.45
7:D3:22:CYS:SG	7:D3:23:CYS:N	2.85	0.45
1:d5:24:PHE:CE2	1:d5:26:CYS:HB3	2.52	0.45
6:q5:9:PHE:HA	6:q5:132:MET:O	2.16	0.45
5:n6:217:GLN:HB2	5:n6:233:GLU:HB2	1.97	0.45
5:r6:281:ARG:HE	5:r6:449:ASP:CG	2.25	0.45
6:s6:135:ALA:O	6:s6:136:THR:OG1	2.35	0.45
5:o7:207:PHE:N	5:o7:242:GLY:O	2.49	0.45
6:v7:9:PHE:CE1	6:v7:133:LYS:HG3	2.50	0.45
8:AE:131:VAL:HG21	8:AE:192:TYR:CZ	2.51	0.45
8:AE:384:ALA:HB1	8:AF:389:THR:HG21	1.97	0.45
8:AH:66:LEU:HD21	8:AI:348:PRO:HG2	1.98	0.45
2:b:77:ARG:HD3	2:b:131:VAL:CG1	2.46	0.45
2:l:142:ALA:O	2:l:146:ILE:HG13	2.16	0.45
1:d1:6:CYS:HA	6:q1:99:CYS:HA	1.98	0.45
5:h1:192:SER:O	5:h1:381:ARG:NH1	2.47	0.45
5:h1:375:LEU:HD12	5:h1:380:ILE:HB	1.98	0.45
5:o1:302:CYS:HB3	5:o1:456:CYS:HB3	1.63	0.45
6:v1:48:ASN:HB3	6:v1:67:ARG:HH12	1.80	0.45
6:q2:15:TRP:HB3	6:q2:128:ILE:HB	1.98	0.45
7:O3:32:GLY:H	7:O3:190:VAL:HG13	1.82	0.45
7:T3:206:GLN:O	7:T3:218:HIS:N	2.48	0.45
7:g3:38:MET:HE3	7:g3:183:VAL:HG11	1.99	0.45
7:h3:138:TRP:CH2	7:h3:191:SER:HB2	2.51	0.45
7:t3:149:VAL:HG11	7:t3:162:PRO:HG3	1.99	0.45
7:z3:132:THR:HA	7:z3:152:VAL:HG23	1.98	0.45
7:93:2:TYR:HB2	7:93:37:VAL:HG22	1.99	0.45
7:03:35:ASN:OD1	7:03:36:GLY:N	2.44	0.45
7:B3:108:ASN:HB3	7:B3:138:TRP:CD1	2.51	0.45
7:B3:132:THR:HG21	7:B3:154:PRO:HB3	1.98	0.45
7:F3:125:TYR:OH	7:F3:135:ASP:OD2	2.23	0.45
5:n5:240:LEU:HA	6:p5:135:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s5:48:ASN:CG	6:s5:67:ARG:HH12	2.24	0.45
6:l6:30:GLN:O	6:l6:133:LYS:N	2.50	0.45
5:o6:361:ARG:HB3	5:r6:361:ARG:HH21	1.81	0.45
6:s6:24:LYS:HG2	6:s6:26:ASP:H	1.82	0.45
6:s6:34:THR:HG21	6:t6:11:SER:H	1.81	0.45
1:e7:7:ARG:HD2	1:e7:8:PRO:O	2.17	0.45
5:n7:196:LEU:HD11	5:n7:381:ARG:HD3	1.98	0.45
5:n7:246:ASP:OD1	5:n7:246:ASP:N	2.49	0.45
6:q7:1:MET:HE2	6:q7:3:PHE:CZ	2.51	0.45
8:AA:154:PHE:HA	8:AA:160:VAL:HA	1.98	0.45
8:AA:255:GLN:O	8:AA:259:VAL:HG23	2.16	0.45
8:AA:355:GLU:OE1	8:AA:370:ILE:HD12	2.16	0.45
8:AB:163:PHE:CE2	8:AB:193:ALA:HB3	2.52	0.45
8:AB:176:SER:OG	8:AB:178:THR:OG1	2.28	0.45
8:AB:314:GLY:O	8:AB:345:THR:HG21	2.16	0.45
8:AC:34:GLY:HA2	8:AC:153:LYS:HE3	1.98	0.45
8:AD:182:LYS:HD3	8:AD:186:GLY:HA2	1.99	0.45
8:AE:187:ARG:HH21	8:AE:363:CYS:HA	1.80	0.45
8:AH:127:MET:HE1	8:AH:354:LEU:HB2	1.97	0.45
9:AS:28:ILE:HG23	9:AS:30:GLY:H	1.81	0.45
9:AS:139:GLU:HB3	9:AS:144:TYR:HE2	1.82	0.45
1:c:31:PRO:HB3	4:f5:23:CYS:HB2	1.97	0.45
2:l:69:LEU:H	2:l:99:ASN:HB2	1.82	0.45
3:I:97:SER:OG	3:AO:44:ALA:HB1	2.17	0.45
6:l1:23:VAL:HG11	6:l1:130:VAL:HG21	1.98	0.45
1:a2:9:LEU:HD23	6:l2:97:SER:HA	1.98	0.45
4:f2:17:GLN:HB2	4:f2:18:PRO:HD2	1.97	0.45
4:f2:24:ARG:HG2	5:k2:311:VAL:HG12	1.97	0.45
5:k2:241:GLU:CD	6:m2:29:ASN:HD21	2.24	0.45
5:k2:337:TYR:CE1	5:n2:188:ILE:HD12	2.51	0.45
5:n2:332:SER:O	5:n2:460:ARG:NH1	2.49	0.45
7:X3:136:ARG:HG2	7:X3:149:VAL:HG23	1.98	0.45
7:b3:209:ILE:HG12	7:b3:210:ASP:O	2.17	0.45
7:d3:75:PHE:HD1	7:d3:149:VAL:HG13	1.82	0.45
7:f3:156:THR:OG1	7:f3:157:SER:N	2.50	0.45
7:i3:79:LYS:HE3	7:i3:155:THR:HA	1.98	0.45
7:m3:75:PHE:HD1	7:m3:149:VAL:HG13	1.82	0.45
7:43:157:SER:O	7:43:158:GLU:HG2	2.16	0.45
7:73:217:VAL:H	7:83:34:VAL:HB	1.80	0.45
5:g5:436:SER:OG	5:g5:442:LYS:N	2.48	0.45
6:l5:51:TYR:HB3	6:l5:68:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n5:229:ALA:HB1	5:o5:249:GLY:HA2	1.98	0.45
5:g6:281:ARG:HH21	5:g6:449:ASP:HB2	1.80	0.45
5:n6:342:SER:N	5:n6:379:ARG:O	2.48	0.45
6:s6:47:PHE:HZ	6:s6:126:VAL:HG11	1.80	0.45
4:f7:16:VAL:HG13	5:k7:396:GLY:H	1.82	0.45
6:p7:47:PHE:CZ	6:p7:126:VAL:HG11	2.50	0.45
8:AA:45:VAL:HG12	8:AA:46:MET:HE2	1.97	0.45
8:AA:255:GLN:O	8:AA:258:GLU:HB3	2.17	0.45
8:AB:140:ASN:HD22	8:AC:18:PRO:HG3	1.80	0.45
8:AE:159:ASP:N	8:AE:159:ASP:OD1	2.48	0.45
8:AG:75:VAL:H	8:AG:98:GLN:HE22	1.64	0.45
8:AG:278:PHE:CD2	8:AH:260:LYS:HB2	2.52	0.45
8:AH:295:ASP:OD2	8:AH:299:LYS:HE3	2.17	0.45
8:AJ:384:ALA:HB1	8:AK:389:THR:HG21	1.99	0.45
8:AK:192:TYR:HE2	8:AK:194:PHE:HE1	1.64	0.45
8:AK:351:LEU:HB3	8:AK:371:PHE:CZ	2.51	0.45
8:AL:145:LEU:HB3	8:AL:150:LEU:HD12	1.98	0.45
9:AS:22:ALA:HB3	9:AS:23:PRO:HD3	1.98	0.45
2:h:177:LEU:HD23	2:h:178:ILE:N	2.31	0.45
3:I:1:MET:HE1	3:I:66:THR:HG21	1.98	0.45
6:m1:15:TRP:HB3	6:m1:128:ILE:HB	1.99	0.45
6:m1:30:GLN:OE1	6:m1:133:LYS:HD3	2.16	0.45
6:m2:58:ASP:HB3	6:m2:61:VAL:HG12	1.99	0.45
5:n2:243:LYS:HE3	5:n2:245:TYR:HE1	1.81	0.45
5:o2:304:PRO:HD2	5:o2:459:GLY:O	2.17	0.45
6:v2:106:MET:N	6:v2:106:MET:SD	2.89	0.45
6:v2:132:MET:N	6:v2:132:MET:SD	2.89	0.45
7:J3:154:PRO:O	7:J3:156:THR:HG23	2.16	0.45
7:Y3:78:THR:HB	7:Y3:84:PHE:HD2	1.81	0.45
7:a3:35:ASN:OD1	7:a3:36:GLY:N	2.44	0.45
7:d3:154:PRO:O	7:d3:155:THR:HG22	2.16	0.45
7:d3:210:ASP:OD2	7:d3:214:ASN:ND2	2.35	0.45
7:i3:80:VAL:HG23	7:i3:153:ASP:O	2.16	0.45
7:i3:88:LEU:N	7:i3:121:GLY:O	2.50	0.45
7:i3:108:ASN:HB3	7:i3:138:TRP:CD1	2.51	0.45
7:i3:139:PHE:HE1	7:i3:148:TYR:HB2	1.82	0.45
7:j3:200:TYR:HB2	7:j3:224:ILE:HD11	1.98	0.45
7:w3:38:MET:HE3	7:w3:183:VAL:HG11	1.97	0.45
7:x3:154:PRO:O	7:x3:155:THR:HG22	2.16	0.45
7:z3:157:SER:O	7:z3:158:GLU:HG2	2.17	0.45
7:23:29:ALA:HB1	7:23:190:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:53:172:ALA:O	7:53:175:ARG:NH1	2.49	0.45
7:D3:90:ASP:OD1	7:D3:90:ASP:N	2.49	0.45
5:h5:252:CYS:SG	6:m6:74:CYS:HB2	2.57	0.45
5:k6:190:CYS:HA	5:k6:384:ASN:OD1	2.17	0.45
6:s6:67:ARG:HE	6:s6:84:LEU:HG	1.80	0.45
6:v6:9:PHE:CD1	6:v6:133:LYS:HA	2.51	0.45
1:d7:24:PHE:CE2	5:r7:360:GLY:HA2	2.51	0.45
5:g7:395:LYS:HE2	5:g7:395:LYS:HB3	1.77	0.45
5:k7:427:MET:HE2	5:k7:427:MET:HB3	1.84	0.45
8:AA:182:LYS:HE2	8:AA:188:PRO:HG3	1.99	0.45
8:AC:69:GLN:NE2	8:AC:111:ALA:HB1	2.20	0.45
8:AC:149:PHE:HE2	8:AD:25:ILE:HD12	1.81	0.45
8:AD:108:MET:HE3	8:AE:205:MET:HE3	1.99	0.45
8:AD:154:PHE:HA	8:AD:160:VAL:HA	1.97	0.45
8:AD:167:ASP:H	8:AE:28:ARG:NH2	2.14	0.45
8:AF:293:LEU:HD12	8:AF:296:ILE:HG13	1.99	0.45
8:AJ:267:LYS:HD2	8:AK:237:GLY:CA	2.45	0.45
8:AK:34:GLY:HA2	8:AK:153:LYS:HE3	1.98	0.45
8:AL:100:ILE:HD11	8:AL:141:ALA:HA	1.98	0.45
9:AQ:13:LEU:HD13	9:AT:104:TYR:CE1	2.52	0.45
9:AQ:22:ALA:HB3	9:AQ:23:PRO:HD3	1.98	0.45
3:AN:1:MET:HE2	3:AN:66:THR:HG21	1.98	0.45
2:l:170:LEU:HD11	2:q:167:ARG:HH21	1.82	0.45
6:s1:9:PHE:CE1	6:s1:133:LYS:HD3	2.51	0.45
7:Y3:107:LEU:HD12	7:m3:205:ARG:HB3	1.97	0.45
7:c3:92:PHE:CE2	7:c3:94:ASN:HB3	2.51	0.45
7:k3:157:SER:O	7:k3:158:GLU:HG2	2.16	0.45
7:l3:71:VAL:HG12	7:l3:92:PHE:HD1	1.80	0.45
7:l3:217:VAL:H	7:m3:34:VAL:HB	1.81	0.45
7:r3:78:THR:HB	7:r3:84:PHE:HD2	1.80	0.45
7:43:207:VAL:HB	7:43:215:GLU:OE2	2.17	0.45
7:83:139:PHE:CE1	7:83:148:TYR:HB2	2.51	0.45
7:83:168:VAL:HG11	7:83:224:ILE:CD1	2.46	0.45
7:93:75:PHE:HD1	7:93:149:VAL:HG13	1.81	0.45
7:A3:78:THR:HG21	7:A3:84:PHE:HB2	1.99	0.45
7:C3:154:PRO:O	7:C3:155:THR:HG22	2.16	0.45
7:E3:210:ASP:HB3	7:E3:216:PHE:CE2	2.50	0.45
5:h5:218:LEU:HB3	5:k5:445:PHE:HZ	1.82	0.45
6:s6:133:LYS:NZ	6:t6:3:PHE:HB2	2.31	0.45
5:k7:252:CYS:HB3	5:k7:442:LYS:HB2	1.98	0.45
5:n7:377:ARG:HG3	5:n7:378:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t7:52:HIS:HB2	6:t7:110:TRP:CD1	2.52	0.45
8:AA:63:LYS:HE3	8:AA:320:LEU:HD21	1.99	0.45
8:AB:75:VAL:H	8:AB:98:GLN:HE22	1.63	0.45
8:AB:242:LYS:HD3	8:AB:242:LYS:HA	1.75	0.45
8:AC:402:ARG:HE	8:AC:407:TRP:HB3	1.82	0.45
8:AD:172:GLU:O	8:AD:172:GLU:HG2	2.16	0.45
8:AD:251:LEU:HD23	8:AD:251:LEU:HA	1.82	0.45
8:AE:270:GLY:O	8:AE:271:ASP:HB2	2.16	0.45
8:AE:348:PRO:HA	8:AE:352:THR:HG22	1.99	0.45
8:AH:228:MET:HE3	8:AH:231:ALA:HB3	1.99	0.45
8:AH:249:ARG:HG2	8:AH:249:ARG:HH11	1.81	0.45
8:AI:69:GLN:HE22	8:AJ:352:THR:HG23	1.81	0.45
8:AL:204:ALA:O	8:AL:208:ASP:HB2	2.16	0.45
10:AZ:14:ILE:O	10:AZ:27:PRO:HD2	2.16	0.45
10:AZ:39:THR:HG22	10:AV:109:GLU:HG3	1.97	0.45
10:AV:40:TYR:N	10:Aa:110:SER:O	2.47	0.45
9:AW:104:TYR:OH	9:AW:108:GLU:OE1	2.35	0.45
2:a:66:LYS:HD2	2:a:66:LYS:N	2.27	0.45
2:b:71:ALA:HB3	2:b:130:TYR:HE2	1.81	0.45
2:o:25:THR:OG1	2:o:26:ASP:N	2.50	0.45
2:o:52:LYS:HB3	2:o:132:THR:HB	1.99	0.45
5:r1:193:LEU:HD23	5:r1:193:LEU:H	1.80	0.45
5:k2:357:ASP:OD1	5:k2:361:ARG:HB2	2.15	0.45
5:o2:334:PRO:HD3	5:o2:460:ARG:HH22	1.82	0.45
6:t2:54:PRO:HD3	6:t2:109:GLN:HG3	1.98	0.45
6:v2:67:ARG:HD3	6:v2:84:LEU:HB3	1.97	0.45
7:S3:183:VAL:HB	7:S3:185:LYS:NZ	2.32	0.45
7:W3:38:MET:HE3	7:W3:183:VAL:HG21	1.98	0.45
7:Z3:75:PHE:HD1	7:Z3:149:VAL:HG13	1.82	0.45
7:f3:80:VAL:HG23	7:f3:153:ASP:O	2.16	0.45
7:n3:139:PHE:HE1	7:n3:148:TYR:HB2	1.81	0.45
7:o3:194:ALA:HB1	7:o3:226:ILE:HG21	1.98	0.45
7:w3:94:ASN:OD1	7:w3:94:ASN:N	2.50	0.45
7:33:108:ASN:HB3	7:33:138:TRP:HD1	1.81	0.45
6:s5:91:GLU:HG3	6:s5:92:THR:HG23	1.99	0.45
5:r6:214:ASP:OD2	5:r6:214:ASP:N	2.48	0.45
1:b7:22:PRO:HD3	5:g7:397:GLY:O	2.16	0.45
5:g7:178:GLN:NE2	5:r7:202:VAL:HG23	2.32	0.45
6:s7:89:LEU:HD11	6:s7:93:VAL:HG11	1.99	0.45
8:AD:166:GLY:CA	8:AE:28:ARG:HH22	2.26	0.45
8:AE:26:PHE:CE2	8:AE:204:ALA:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AF:400:GLU:HA	8:AF:403:GLU:HG3	1.98	0.45
8:AG:369:VAL:O	8:AG:370:ILE:HD13	2.17	0.45
8:AJ:50:ARG:HD2	8:AJ:51:ALA:N	2.32	0.45
8:AK:305:GLN:O	8:AK:308:THR:OG1	2.27	0.45
9:AQ:32:ALA:HA	9:AQ:53:VAL:O	2.16	0.45
10:AV:26:GLY:HA2	10:AV:28:ILE:HG13	1.99	0.45
9:AW:128:THR:H	10:Ab:6:GLN:NE2	2.14	0.45
1:d:17:ARG:O	1:d:18:LEU:HD23	2.17	0.45
2:l:53:THR:HG21	7:Q3:8:PRO:HG3	1.99	0.45
2:j:177:LEU:HD12	2:j:178:ILE:H	1.82	0.45
2:k:13:ARG:HE	2:k:29:LEU:HG	1.82	0.45
2:k:136:CYS:O	2:k:137:GLU:HG2	2.17	0.45
5:g1:254:ASN:HA	5:g1:440:CYS:HA	1.98	0.45
5:g1:395:LYS:HE3	5:g1:395:LYS:HB3	1.80	0.45
5:k1:253:PHE:HB3	5:k1:258:LEU:CD1	2.46	0.45
6:l1:81:GLU:HG2	6:l1:82:ASP:N	2.32	0.45
5:n1:247:TYR:N	5:n1:447:ALA:O	2.33	0.45
6:s1:18:GLU:OE1	6:s1:18:GLU:N	2.49	0.45
5:k2:291:VAL:HG21	6:m2:107:ASN:HA	1.99	0.45
5:n2:246:ASP:HA	5:n2:448:GLU:HA	1.97	0.45
5:o2:204:ARG:HA	5:o2:424:LYS:HE2	1.99	0.45
7:K3:51:HIS:ND1	5:g6:226:LYS:HD2	2.32	0.45
7:W3:74:ALA:HB3	7:W3:148:TYR:CD1	2.52	0.45
7:f3:133:GLY:H	7:f3:152:VAL:HG23	1.82	0.45
7:l3:154:PRO:O	7:l3:155:THR:HG22	2.16	0.45
7:m3:108:ASN:HB3	7:m3:138:TRP:CD1	2.52	0.45
7:p3:48:LEU:HD11	7:p3:216:PHE:CG	2.52	0.45
7:p3:77:ARG:NH1	7:p3:159:LEU:O	2.49	0.45
7:q3:99:GLN:O	7:q3:142:ASN:ND2	2.49	0.45
7:x3:59:PHE:HD1	7:x3:204:VAL:HG12	1.82	0.45
7:33:92:PHE:HB2	7:33:141:ILE:HG21	1.99	0.45
7:33:209:ILE:HD11	7:33:213:GLY:HA2	1.99	0.45
7:B3:172:ALA:O	7:B3:175:ARG:NH1	2.49	0.45
7:C3:210:ASP:HB3	7:C3:216:PHE:HE2	1.80	0.45
7:F3:174:ARG:NE	7:F3:187:VAL:HG21	2.32	0.45
7:G3:30:ARG:HB2	7:G3:230:GLY:HA2	1.98	0.45
5:o5:284:ALA:HB1	5:o5:294:PRO:HD2	1.99	0.45
5:h6:422:VAL:HG23	5:h6:451:GLY:HA2	1.98	0.45
5:r6:375:LEU:HB3	5:r6:380:ILE:HB	1.99	0.45
6:u6:67:ARG:HE	6:u6:84:LEU:HB3	1.81	0.45
5:h7:303:PHE:HD2	5:h7:456:CYS:HB2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h7:334:PRO:HG2	5:h7:337:TYR:CD2	2.52	0.45
5:o7:284:ALA:HB1	5:o7:294:PRO:HD2	1.99	0.45
6:u7:43:ALA:H	6:u7:122:ASN:ND2	2.15	0.45
8:AB:183:ASN:ND2	8:AB:187:ARG:O	2.50	0.45
8:AE:400:GLU:HA	8:AE:403:GLU:HG3	1.98	0.45
8:AF:179:LYS:HG3	8:AF:179:LYS:O	2.16	0.45
8:AI:89:MET:HG2	8:AI:187:ARG:HE	1.82	0.45
8:AI:305:GLN:OE1	8:AI:305:GLN:HA	2.17	0.45
8:AJ:31:PHE:CE1	8:AJ:37:LYS:HD3	2.51	0.45
8:AJ:54:HIS:HB3	8:AJ:57:ALA:HB3	1.98	0.45
8:AJ:121:TRP:HE3	8:AJ:127:MET:HG3	1.80	0.45
3:AP:6:ARG:NH2	3:AP:68:ASN:HD21	2.14	0.45
3:AN:48:SER:HB3	3:AN:54:MET:CG	2.46	0.45
9:AT:22:ALA:HB3	9:AT:23:PRO:HD3	1.98	0.45
9:AW:128:THR:H	10:Ab:6:GLN:HE22	1.65	0.45
10:AY:17:THR:HG22	10:AY:24:VAL:HG12	1.99	0.45
1:c:16:SER:OG	5:h5:394:THR:OG1	2.30	0.45
2:a:7:LEU:HD21	2:a:12:ILE:HD11	1.98	0.45
2:a:181:THR:O	2:a:187:ILE:HD11	2.17	0.45
2:l:37:PHE:CE1	2:l:148:ILE:HD13	2.52	0.45
2:q:167:ARG:HD3	2:q:167:ARG:HA	1.54	0.45
5:o2:334:PRO:HG2	5:o2:337:TYR:CD2	2.51	0.45
6:p2:68:VAL:O	6:p2:84:LEU:HA	2.17	0.45
7:M3:7:ASP:OD1	7:M3:7:ASP:N	2.50	0.45
7:M3:88:LEU:N	7:M3:121:GLY:O	2.48	0.45
7:a3:74:ALA:HB2	7:a3:91:LEU:HD11	1.98	0.45
7:c3:80:VAL:HG23	7:c3:153:ASP:O	2.17	0.45
7:h3:206:GLN:OE1	7:h3:207:VAL:N	2.50	0.45
7:i3:27:ILE:HB	7:i3:224:ILE:HG22	1.98	0.45
7:s3:29:ALA:HB1	7:s3:190:VAL:HG21	1.97	0.45
7:s3:77:ARG:NH1	7:s3:159:LEU:O	2.50	0.45
7:u3:77:ARG:NH2	7:u3:158:GLU:OE1	2.50	0.45
7:C3:138:TRP:CZ3	7:C3:147:GLU:HB3	2.52	0.45
7:D3:168:VAL:HG11	7:D3:224:ILE:CD1	2.47	0.45
7:E3:94:ASN:ND2	7:E3:96:GLU:O	2.49	0.45
7:F3:149:VAL:HG11	7:F3:162:PRO:HG3	1.99	0.45
5:g5:370:THR:HG22	5:g5:372:THR:HG23	1.99	0.45
5:k5:329:PHE:O	5:k5:460:ARG:NH2	2.46	0.45
6:l5:73:PHE:O	6:l5:75:ASP:N	2.50	0.45
6:l6:11:SER:H	6:m6:34:THR:HG21	1.82	0.45
6:v6:41:LEU:HD12	6:v6:93:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l7:91:GLU:HG3	6:l7:92:THR:HG23	1.97	0.45
5:r7:291:VAL:HG22	5:r7:292:ASN:ND2	2.31	0.45
6:s7:33:PHE:N	6:s7:101:GLY:O	2.49	0.45
6:s7:62:PRO:HA	6:s7:110:TRP:HZ2	1.82	0.45
8:AB:293:LEU:HA	8:AB:296:ILE:HD11	1.99	0.45
8:AC:261:GLU:HA	8:AC:264:GLU:HG3	1.98	0.45
8:AC:351:LEU:HD23	8:AC:371:PHE:CE2	2.51	0.45
8:AG:127:MET:O	8:AG:196:ILE:N	2.45	0.45
8:AG:197:VAL:HG11	8:AG:206:ASN:ND2	2.32	0.45
8:AK:172:GLU:O	8:AK:172:GLU:HG2	2.16	0.45
8:AL:83:GLN:HE21	8:AL:366:GLY:H	1.65	0.45
9:AR:38:VAL:HG12	9:AR:54:LEU:HD22	1.98	0.45
1:c:1:MET:HG2	6:m6:76:THR:HG22	1.99	0.45
2:l:61:LYS:O	2:l:66:LYS:N	2.47	0.45
2:o:77:ARG:HG3	2:o:78:PRO:HD2	1.98	0.45
2:p:19:ASP:HB2	3:l:87:LYS:NZ	2.31	0.45
2:q:71:ALA:HB3	2:q:130:TYR:CE2	2.50	0.45
2:m:43:TYR:CD1	8:AC:252:ASP:HA	2.52	0.45
5:k1:336:GLU:OE2	5:n1:188:ILE:HD11	2.17	0.45
6:m1:58:ASP:HB3	6:m1:61:VAL:HG12	1.99	0.45
1:b2:3:LYS:HZ1	6:t2:4:ASN:HB2	1.82	0.45
4:f2:17:GLN:HA	5:h2:328:ARG:HH12	1.82	0.45
5:h2:304:PRO:HD3	5:h2:456:CYS:O	2.16	0.45
5:k2:386:LEU:HD23	5:k2:408:PHE:CE1	2.52	0.45
5:n2:229:ALA:HB1	5:o2:249:GLY:HA2	1.97	0.45
5:o2:182:LEU:HD12	5:o2:183:GLU:H	1.82	0.45
6:p2:81:GLU:HG2	6:p2:82:ASP:N	2.28	0.45
6:q2:67:ARG:HG2	6:q2:84:LEU:HD22	1.99	0.45
6:s2:91:GLU:HG3	6:s2:92:THR:HG23	1.98	0.45
7:J3:6:VAL:HG21	7:J3:218:HIS:CE1	2.52	0.45
7:L3:157:SER:O	7:L3:158:GLU:HG2	2.16	0.45
7:O3:6:VAL:HG21	7:O3:218:HIS:CE1	2.52	0.45
7:R3:157:SER:O	7:R3:158:GLU:HG2	2.17	0.45
7:d3:38:MET:HG2	7:d3:185:LYS:HG2	1.98	0.45
7:e3:133:GLY:H	7:e3:152:VAL:HG23	1.81	0.45
7:l3:88:LEU:N	7:l3:121:GLY:O	2.49	0.45
7:l3:102:TYR:HD1	7:l3:141:ILE:HD12	1.82	0.45
7:13:78:THR:HB	7:13:84:PHE:HD2	1.82	0.45
7:23:38:MET:HE3	7:23:185:LYS:HE2	1.98	0.45
7:33:64:VAL:HB	7:33:199:VAL:HG23	1.98	0.45
7:63:94:ASN:ND2	7:63:96:GLU:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o5:389:PRO:HG3	5:o5:409:VAL:HA	1.98	0.45
6:p5:13:ILE:HG13	6:q5:13:ILE:HD12	1.98	0.45
5:k6:196:LEU:HD11	5:k6:381:ARG:HD2	1.99	0.45
6:m6:14:ALA:HB2	6:m6:130:VAL:HG23	1.99	0.45
5:r6:345:HIS:CG	5:r6:388:ASP:HB3	2.52	0.45
6:u6:58:ASP:HB3	6:u6:61:VAL:HG12	1.98	0.45
5:n7:374:ASP:O	5:n7:375:LEU:HB2	2.17	0.45
5:r7:291:VAL:HG21	6:t7:107:ASN:HA	1.98	0.45
6:s7:58:ASP:O	6:s7:61:VAL:HG12	2.17	0.45
8:AB:75:VAL:HG12	8:AB:98:GLN:NE2	2.31	0.45
8:AB:89:MET:SD	8:AB:185:LYS:HG3	2.56	0.45
8:AD:380:ARG:HG3	8:AD:383:ARG:HH12	1.81	0.45
8:AG:89:MET:SD	8:AG:185:LYS:HE2	2.57	0.45
8:AK:379:LEU:HD12	8:AK:382:SER:HB3	1.99	0.45
8:AL:131:VAL:HG21	8:AL:192:TYR:CZ	2.52	0.45
9:AW:38:VAL:HG21	9:AW:81:ILE:HG13	1.97	0.45
10:AY:129:PRO:O	10:AY:130:PRO:C	2.60	0.45
1:e:1:MET:HG2	6:m2:76:THR:HG22	1.99	0.44
2:b:43:TYR:HD1	8:AJ:252:ASP:HA	1.82	0.44
2:b:85:GLY:O	2:b:110:ARG:HA	2.18	0.44
2:b:144:ILE:HG23	2:b:194:TRP:CH2	2.52	0.44
2:q:145:ILE:O	2:q:149:LEU:HG	2.18	0.44
2:q:154:TRP:O	2:q:158:ASN:HB2	2.18	0.44
2:q:165:SER:N	2:q:169:THR:O	2.45	0.44
2:i:54:ILE:HB	2:i:130:TYR:CE2	2.52	0.44
2:k:66:LYS:HB2	8:AJ:271:ASP:CG	2.41	0.44
2:m:134:ARG:HB2	2:m:138:ASN:O	2.17	0.44
5:h1:219:GLY:HA3	5:k1:247:TYR:CZ	2.52	0.44
6:q1:70:GLU:HB3	6:q1:85:ALA:HB2	1.99	0.44
5:r1:430:GLU:N	5:r1:430:GLU:OE2	2.50	0.44
6:v1:30:GLN:HB2	6:v1:133:LYS:HB2	1.98	0.44
7:L3:210:ASP:HB3	7:L3:216:PHE:HE2	1.81	0.44
7:O3:157:SER:O	7:O3:158:GLU:HG2	2.17	0.44
7:P3:101:GLU:HG2	7:P3:101:GLU:O	2.17	0.44
7:X3:157:SER:O	7:X3:158:GLU:HG2	2.17	0.44
7:f3:90:ASP:OD1	7:f3:90:ASP:N	2.41	0.44
7:h3:210:ASP:HB3	7:h3:216:PHE:HE2	1.81	0.44
7:k3:88:LEU:HD11	7:k3:139:PHE:CG	2.52	0.44
7:w3:101:GLU:OE1	7:w3:142:ASN:ND2	2.50	0.44
7:y3:190:VAL:HG21	7:y3:226:ILE:HD13	2.00	0.44
7:93:61:ILE:HG21	7:93:168:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h5:223:CYS:HB3	5:h5:226:LYS:NZ	2.32	0.44
5:n5:255:ARG:HD2	5:n5:438:ALA:O	2.17	0.44
6:s5:58:ASP:O	6:s5:61:VAL:HG12	2.17	0.44
6:v5:82:ASP:CG	6:v5:84:LEU:HD22	2.42	0.44
5:o6:365:GLY:O	5:o6:367:GLY:N	2.46	0.44
6:p6:9:PHE:CD1	6:p6:133:LYS:HA	2.52	0.44
5:r6:289:LYS:O	5:r6:293:GLU:HB2	2.17	0.44
1:a7:19:VAL:O	5:k7:328:ARG:NH1	2.50	0.44
5:g7:339:GLU:OE1	5:g7:379:ARG:HD2	2.17	0.44
5:r7:213:ALA:HB3	5:r7:236:ASN:HB2	1.98	0.44
6:s7:135:ALA:O	6:s7:136:THR:OG1	2.34	0.44
8:AA:90:SER:C	8:AA:92:SER:H	2.24	0.44
8:AA:133:VAL:HA	8:AA:139:VAL:HA	2.00	0.44
8:AB:28:ARG:HG3	8:AB:29:ARG:N	2.25	0.44
8:AC:130:LYS:HG2	8:AC:145:LEU:HD21	1.98	0.44
8:AC:204:ALA:O	8:AC:208:ASP:HB2	2.17	0.44
8:AC:278:PHE:CD1	8:AD:260:LYS:HB2	2.52	0.44
8:AE:292:ASP:OD1	8:AE:292:ASP:N	2.51	0.44
8:AF:315:ILE:HG22	8:AF:341:PHE:CE1	2.51	0.44
8:AI:90:SER:C	8:AI:92:SER:H	2.25	0.44
8:AJ:159:ASP:OD1	8:AJ:159:ASP:N	2.51	0.44
8:AK:126:ARG:HG2	8:AK:195:MET:HE1	2.00	0.44
8:AK:243:TRP:CE3	8:AK:263:ILE:HD11	2.52	0.44
8:AK:275:GLU:O	8:AL:241:SER:OG	2.33	0.44
8:AL:194:PHE:HZ	8:AL:362:LEU:HD21	1.81	0.44
9:AS:92:ARG:HB3	9:AS:94:ARG:NH1	2.31	0.44
1:c:30:ALA:HB3	1:c:31:PRO:HD3	1.99	0.44
1:g:4:LEU:HD12	6:m5:100:ALA:O	2.17	0.44
2:l:167:ARG:HH12	2:i:170:LEU:HG	1.82	0.44
2:n:9:LEU:HA	2:n:12:ILE:HD12	1.98	0.44
2:o:53:THR:OG1	7:W3:15:SER:HB3	2.17	0.44
2:j:50:PRO:HA	2:j:134:ARG:H	1.82	0.44
2:k:20:ASP:HB2	3:AM:87:LYS:CG	2.47	0.44
3:H:95:VAL:HG23	3:H:110:ILE:HG23	1.99	0.44
6:m1:81:GLU:HG3	7:L3:55:ASN:HB3	1.99	0.44
5:o1:361:ARG:HB3	5:r1:361:ARG:HH21	1.83	0.44
1:e2:19:VAL:HG12	5:r2:394:THR:HA	1.98	0.44
5:k2:222:THR:HG21	5:n2:248:ARG:HB2	1.98	0.44
7:L3:133:GLY:H	7:L3:152:VAL:HG23	1.82	0.44
7:N3:156:THR:OG1	7:N3:157:SER:N	2.50	0.44
7:O3:25:GLU:N	7:O3:25:GLU:OE2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R3:154:PRO:O	7:R3:156:THR:HG23	2.18	0.44
7:S3:190:VAL:HG21	7:S3:226:ILE:HD13	1.99	0.44
7:T3:30:ARG:HD2	7:T3:230:GLY:H	1.83	0.44
7:W3:171:PRO:O	7:W3:175:ARG:NH2	2.50	0.44
7:c3:59:PHE:HD1	7:c3:202:LEU:HD11	1.81	0.44
7:13:184:LEU:HD12	7:13:206:GLN:HE21	1.82	0.44
7:73:207:VAL:HG12	7:73:217:VAL:HG22	1.99	0.44
7:A3:206:GLN:OE1	7:A3:207:VAL:N	2.49	0.44
7:B3:75:PHE:HD1	7:B3:149:VAL:HG13	1.82	0.44
7:E3:30:ARG:HG3	7:E3:31:PRO:HD2	1.98	0.44
5:n5:373:PRO:HG2	5:n5:375:LEU:HD23	1.98	0.44
5:n5:401:ASP:N	5:n5:401:ASP:OD1	2.49	0.44
6:p5:30:GLN:HB2	6:p5:133:LYS:HB3	2.00	0.44
6:t5:51:TYR:HD2	6:t5:108:GLY:HA3	1.83	0.44
5:k6:188:ILE:HG22	5:k6:189:GLU:O	2.17	0.44
6:l6:42:THR:OG1	6:l6:122:ASN:ND2	2.50	0.44
5:o6:344:MET:HG2	5:o6:380:ILE:HD11	2.00	0.44
6:s6:58:ASP:O	6:s6:61:VAL:HG12	2.17	0.44
8:AC:192:TYR:HE2	8:AC:194:PHE:HE1	1.65	0.44
8:AD:402:ARG:HE	8:AD:407:TRP:HB3	1.82	0.44
8:AE:362:LEU:HD23	8:AE:362:LEU:HA	1.86	0.44
8:AJ:68:VAL:HG11	8:AJ:118:ALA:HB2	1.99	0.44
8:AJ:316:PRO:HB2	8:AJ:319:LEU:HD23	1.99	0.44
8:AK:113:LEU:HD21	8:AK:144:PRO:HD3	1.99	0.44
9:AQ:154:GLU:OE1	10:AZ:4:ASN:HB3	2.18	0.44
9:AR:22:ALA:HB3	9:AR:23:PRO:HD3	1.99	0.44
2:a:146:ILE:HD11	2:n:35:ALA:CB	2.46	0.44
2:n:22:PRO:C	2:n:24:VAL:H	2.24	0.44
2:n:46:LEU:HD12	2:n:135:ARG:HH11	1.82	0.44
2:n:117:CYS:HB2	5:h1:231:PHE:CD1	2.53	0.44
2:o:159:PRO:HD3	3:AP:4:ALA:HB2	2.00	0.44
2:i:77:ARG:HH21	2:i:131:VAL:HG22	1.82	0.44
1:b1:13:PRO:HB3	5:r1:301:ASN:ND2	2.31	0.44
5:g1:297:TRP:H	5:g1:297:TRP:CD1	2.36	0.44
5:g1:344:MET:HE3	5:g1:349:PHE:HB2	1.99	0.44
5:k1:337:TYR:CE1	5:n1:188:ILE:HD12	2.51	0.44
5:n1:228:ASP:N	5:n1:228:ASP:OD1	2.50	0.44
5:n1:243:LYS:HE3	5:n1:245:TYR:HE1	1.82	0.44
6:p1:68:VAL:HG23	6:p1:107:ASN:HD21	1.82	0.44
6:q1:9:PHE:HD1	6:q1:133:LYS:HA	1.81	0.44
5:r1:306:PHE:CE2	5:r1:460:ARG:HD3	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a2:19:VAL:HG12	5:n2:394:THR:HA	1.99	0.44
1:e2:27:ARG:CZ	5:r2:322:LEU:HD12	2.47	0.44
5:k2:306:PHE:CE2	5:k2:460:ARG:HD2	2.53	0.44
6:m2:56:ASP:OD1	6:m2:56:ASP:N	2.51	0.44
5:r2:305:VAL:HG23	5:r2:461:ILE:HG22	1.99	0.44
7:P3:75:PHE:HD1	7:P3:149:VAL:HG13	1.82	0.44
7:T3:64:VAL:HG23	7:T3:199:VAL:HG23	1.99	0.44
7:V3:70:LYS:HA	7:V3:70:LYS:HD2	1.83	0.44
7:Y3:136:ARG:HG2	7:Y3:149:VAL:HG23	2.00	0.44
7:b3:167:PRO:HA	7:b3:191:SER:OG	2.17	0.44
7:h3:157:SER:O	7:h3:158:GLU:HG2	2.17	0.44
7:k3:53:LEU:HB2	7:k3:177:VAL:HG21	1.99	0.44
7:o3:120:ASN:OD1	7:o3:120:ASN:N	2.51	0.44
7:p3:29:ALA:HB1	7:p3:190:VAL:HG21	2.00	0.44
7:t3:174:ARG:CZ	7:t3:187:VAL:HG21	2.47	0.44
7:x3:71:VAL:HG13	7:x3:144:ASN:HB2	1.99	0.44
7:13:120:ASN:OD1	7:13:120:ASN:N	2.50	0.44
7:43:149:VAL:HG11	7:43:162:PRO:HG3	1.99	0.44
5:g5:246:ASP:OD1	5:g5:246:ASP:N	2.50	0.44
5:g5:254:ASN:HA	5:g5:440:CYS:HA	2.00	0.44
6:t5:70:GLU:HB2	6:t5:84:LEU:C	2.43	0.44
1:d6:29:VAL:HG23	1:d6:32:SER:HB3	1.99	0.44
6:m6:50:PHE:HE1	6:m6:67:ARG:HD2	1.81	0.44
6:m6:58:ASP:HB3	6:m6:61:VAL:HG12	1.99	0.44
6:s6:36:LYS:HA	6:s6:36:LYS:HD2	1.87	0.44
5:g7:220:GLU:HA	5:h7:247:TYR:CE1	2.53	0.44
6:l7:30:GLN:CB	6:l7:133:LYS:HB3	2.47	0.44
5:r7:253:PHE:CZ	5:r7:269:MET:HG3	2.52	0.44
5:r7:286:MET:HE1	5:r7:385:CYS:HB3	2.00	0.44
8:AA:167:ASP:OD1	8:AB:28:ARG:NH1	2.50	0.44
8:AB:42:TYR:CE1	8:AB:46:MET:HE3	2.53	0.44
8:AC:67:THR:O	8:AC:70:SER:OG	2.33	0.44
8:AC:100:ILE:CD1	8:AC:141:ALA:HA	2.47	0.44
8:AF:95:LYS:O	8:AF:99:GLN:HG2	2.17	0.44
8:AI:227:LEU:HD21	8:AI:298:SER:HB2	1.98	0.44
8:AJ:154:PHE:HA	8:AJ:160:VAL:HA	2.00	0.44
9:AR:17:ALA:HB1	9:AR:32:ALA:HB1	1.99	0.44
3:AP:1:MET:SD	3:AP:1:MET:N	2.85	0.44
9:AW:102:PHE:O	9:AX:35:VAL:HG23	2.17	0.44
2:a:21:ASN:OD1	3:H:68:ASN:HB3	2.17	0.44
2:a:45:GLY:O	2:a:47:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:122:VAL:HG23	2:i:123:GLU:N	2.29	0.44
1:a1:21:PRO:O	5:k1:324:GLN:NE2	2.50	0.44
1:e1:9:LEU:HB2	6:v1:96:ASP:O	2.17	0.44
5:k1:266:LEU:O	5:k1:270:ILE:HG12	2.17	0.44
5:h2:261:ALA:HB2	5:n7:175:PHE:CE1	2.52	0.44
6:l2:34:THR:HG21	6:m2:10:PRO:HA	1.98	0.44
6:m2:9:PHE:CZ	6:m2:133:LYS:HG3	2.52	0.44
5:o2:398:THR:OG1	5:o2:399:GLY:N	2.50	0.44
5:r2:309:LEU:HD23	5:r2:309:LEU:H	1.81	0.44
7:M3:154:PRO:O	7:M3:156:THR:HG23	2.17	0.44
7:V3:77:ARG:NE	7:V3:158:GLU:OE1	2.51	0.44
7:Z3:92:PHE:CE2	7:Z3:94:ASN:HB3	2.51	0.44
7:b3:29:ALA:HB1	7:b3:190:VAL:HG21	2.00	0.44
7:m3:71:VAL:HG11	7:m3:141:ILE:HB	1.98	0.44
7:p3:7:ASP:OD1	7:p3:7:ASP:N	2.51	0.44
7:q3:209:ILE:HD11	7:q3:213:GLY:HA2	1.99	0.44
7:13:206:GLN:OE1	7:13:207:VAL:N	2.48	0.44
7:B3:38:MET:HG2	7:B3:185:LYS:HG2	1.99	0.44
7:G3:90:ASP:OD1	7:G3:90:ASP:N	2.50	0.44
5:k5:196:LEU:HD21	5:k5:381:ARG:HD2	1.99	0.44
6:l6:9:PHE:CE1	6:l6:133:LYS:HG2	2.52	0.44
6:l6:81:GLU:HG2	6:l6:82:ASP:N	2.32	0.44
5:o6:334:PRO:HG2	5:o6:337:TYR:CD2	2.52	0.44
5:r6:261:ALA:HB1	5:r6:265:PHE:HE2	1.81	0.44
5:r6:305:VAL:HG23	5:r6:461:ILE:HG22	1.99	0.44
6:l7:81:GLU:HG2	6:l7:82:ASP:N	2.32	0.44
5:o7:279:ILE:HD13	5:o7:279:ILE:HA	1.87	0.44
5:r7:238:ARG:NH2	5:r7:240:LEU:HD11	2.32	0.44
5:r7:444:GLN:NE2	5:r7:445:PHE:O	2.50	0.44
8:AC:123:CYS:O	8:AC:212:THR:HG21	2.18	0.44
8:AC:172:GLU:HG2	8:AC:172:GLU:O	2.17	0.44
8:AD:396:ILE:HG22	8:AD:401:LYS:HG3	2.00	0.44
8:AE:97:LEU:HA	8:AE:100:ILE:HG22	1.99	0.44
8:AF:97:LEU:HA	8:AF:100:ILE:HG22	2.00	0.44
8:AG:69:GLN:NE2	8:AG:111:ALA:HB1	2.23	0.44
8:AG:119:LEU:HD21	8:AH:201:ILE:HG12	2.00	0.44
8:AG:223:LEU:HD22	8:AG:305:GLN:HE21	1.81	0.44
8:AH:100:ILE:HD12	8:AH:103:ARG:O	2.17	0.44
8:AH:172:GLU:O	8:AH:172:GLU:HG2	2.17	0.44
8:AH:296:ILE:HG13	8:AH:297:HIS:N	2.33	0.44
8:AI:384:ALA:HB1	8:AJ:389:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:54:HIS:HE1	8:AK:56:VAL:HB	1.82	0.44
8:AK:75:VAL:H	8:AK:98:GLN:HE22	1.65	0.44
8:AK:297:HIS:CE1	8:AK:299:LYS:HB2	2.51	0.44
8:AL:247:ALA:HB1	8:AL:251:LEU:HD13	1.99	0.44
3:AM:8:HIS:CD2	3:AM:39:ILE:HG12	2.52	0.44
9:AQ:13:LEU:HD12	9:AQ:13:LEU:H	1.82	0.44
9:AS:104:TYR:OH	9:AS:108:GLU:OE1	2.35	0.44
9:AX:91:TYR:CZ	9:AX:93:ASP:HB3	2.52	0.44
10:Ab:32:GLN:HG3	10:Ab:33:PRO:HD2	2.00	0.44
1:f:27:ARG:HH22	5:h2:309:LEU:HB2	1.83	0.44
2:b:125:GLN:HE22	2:k:92:LEU:HD12	1.81	0.44
2:b:135:ARG:C	2:b:137:GLU:H	2.25	0.44
2:l:57:PRO:HG2	2:m:93:ILE:HG13	1.98	0.44
2:p:80:VAL:HG11	7:R3:47:PRO:HG3	2.00	0.44
2:p:169:THR:HA	2:k:175:GLN:HA	1.99	0.44
2:q:98:SER:OG	2:q:99:ASN:N	2.51	0.44
2:k:134:ARG:O	2:k:138:ASN:HA	2.16	0.44
5:g1:308:THR:OG1	5:g1:309:LEU:N	2.51	0.44
5:h1:431:GLN:HE22	5:h1:442:LYS:H	1.65	0.44
6:l1:9:PHE:CE1	6:l1:133:LYS:HG2	2.52	0.44
5:n1:247:TYR:O	5:n1:447:ALA:N	2.50	0.44
5:o1:224:ASP:O	5:o1:226:LYS:N	2.49	0.44
5:h2:422:VAL:HA	8:AE:29:ARG:NH1	2.33	0.44
6:l2:30:GLN:HB2	6:l2:133:LYS:HB3	1.98	0.44
7:a3:71:VAL:HG11	7:a3:141:ILE:HB	1.99	0.44
7:d3:71:VAL:HG11	7:d3:141:ILE:HB	1.99	0.44
7:f3:50:GLY:O	7:f3:51:HIS:C	2.59	0.44
7:o3:106:GLU:OE1	7:o3:106:GLU:N	2.46	0.44
7:t3:209:ILE:HD11	7:t3:213:GLY:HA2	1.99	0.44
7:u3:71:VAL:HG13	7:u3:144:ASN:HB2	1.99	0.44
7:w3:75:PHE:HD1	7:w3:149:VAL:HG23	1.83	0.44
7:23:21:SER:OG	7:23:22:CYS:N	2.51	0.44
7:73:184:LEU:HD12	7:73:206:GLN:NE2	2.31	0.44
7:B3:73:ASN:HB3	7:B3:164:PHE:CE1	2.53	0.44
7:G3:108:ASN:HB3	7:G3:138:TRP:CD1	2.52	0.44
6:m5:37:THR:HG23	6:m5:95:PRO:HA	1.99	0.44
5:h6:374:ASP:O	5:h6:378:GLU:HG2	2.18	0.44
6:m6:31:PHE:HB3	6:m6:132:MET:HG3	1.98	0.44
5:o6:344:MET:HE3	5:o6:349:PHE:HB2	1.98	0.44
6:s6:32:GLY:HA2	6:s6:102:THR:HB	2.00	0.44
6:l7:73:PHE:O	6:l7:75:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AA:16:PRO:O	8:AA:17:ALA:C	2.60	0.44
8:AA:121:TRP:HE3	8:AA:127:MET:HG3	1.82	0.44
8:AA:126:ARG:HH21	8:AA:198:LYS:HB3	1.82	0.44
8:AE:31:PHE:HE1	8:AE:37:LYS:HG2	1.83	0.44
8:AF:121:TRP:CZ2	8:AF:198:LYS:HG3	2.53	0.44
8:AF:154:PHE:HA	8:AF:160:VAL:HA	2.00	0.44
8:AL:298:SER:HB3	8:AL:301:PRO:HG2	2.00	0.44
10:AU:31:GLU:HG3	9:AW:71:ASN:HB2	1.98	0.44
10:AZ:108:GLU:OE1	10:AZ:108:GLU:N	2.51	0.44
10:AY:14:ILE:HG12	10:AY:87:VAL:HG12	1.99	0.44
1:c:24:PHE:CD2	5:h5:357:ASP:HA	2.49	0.44
1:e:4:LEU:HA	6:m2:100:ALA:O	2.18	0.44
2:b:25:THR:OG1	2:b:27:ASP:OD1	2.35	0.44
2:b:187:ILE:O	2:o:182:ASN:ND2	2.51	0.44
2:l:181:THR:O	2:l:187:ILE:HD11	2.17	0.44
2:o:173:ASN:HB2	2:o:175:GLN:OE1	2.17	0.44
2:i:87:GLY:HA3	2:i:111:PHE:CD1	2.53	0.44
2:i:136:CYS:SG	2:i:137:GLU:N	2.88	0.44
6:l1:42:THR:OG1	6:l1:122:ASN:ND2	2.51	0.44
5:n1:339:GLU:OE2	5:n1:379:ARG:NE	2.51	0.44
6:v1:106:MET:N	6:v1:106:MET:SD	2.87	0.44
5:h2:210:MET:HE1	5:k2:263:TYR:HB2	2.00	0.44
5:h2:219:GLY:HA3	5:k2:247:TYR:CZ	2.52	0.44
5:h2:400:GLN:OE1	5:h2:401:ASP:HB2	2.18	0.44
5:r2:193:LEU:HD22	5:r2:381:ARG:HD3	1.99	0.44
7:J3:107:LEU:HD12	7:X3:205:ARG:HB3	1.99	0.44
7:P3:138:TRP:CE3	7:P3:147:GLU:HB3	2.52	0.44
7:U3:178:ASP:OD2	7:U3:181:THR:HG22	2.17	0.44
7:V3:157:SER:OG	7:V3:158:GLU:N	2.50	0.44
7:X3:200:TYR:HB2	7:X3:224:ILE:HG23	1.99	0.44
7:n3:35:ASN:OD1	7:n3:36:GLY:N	2.46	0.44
7:n3:209:ILE:HD11	7:n3:213:GLY:HA2	1.99	0.44
7:q3:133:GLY:H	7:q3:152:VAL:HG23	1.82	0.44
7:y3:78:THR:HG21	7:y3:84:PHE:HB2	2.00	0.44
5:n5:303:PHE:HA	5:n5:304:PRO:HD2	1.87	0.44
5:o5:211:LYS:HB2	5:o5:211:LYS:HE3	1.78	0.44
5:o5:334:PRO:HG2	5:o5:337:TYR:CD2	2.53	0.44
6:p5:28:PHE:CD2	6:p5:132:MET:HG3	2.52	0.44
6:t5:54:PRO:HD3	6:t5:109:GLN:HG3	1.98	0.44
5:h6:223:CYS:O	5:k6:248:ARG:NH1	2.47	0.44
5:h6:345:HIS:CG	5:h6:388:ASP:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l6:53:GLU:OE1	6:l6:53:GLU:N	2.51	0.44
5:n6:228:ASP:N	5:n6:228:ASP:OD1	2.51	0.44
5:n6:374:ASP:OD2	5:n6:377:ARG:N	2.47	0.44
5:o6:224:ASP:O	5:o6:226:LYS:N	2.49	0.44
5:r6:193:LEU:HB3	5:r6:196:LEU:HD22	2.00	0.44
5:r6:306:PHE:CE2	5:r6:460:ARG:HD3	2.52	0.44
6:s6:55:SER:HB3	6:s6:61:VAL:HG13	1.99	0.44
8:AC:89:MET:HE3	8:AC:90:SER:HB3	1.99	0.44
8:AD:163:PHE:CD2	8:AD:193:ALA:HB3	2.53	0.44
8:AE:266:THR:HG22	8:AE:272:ASN:O	2.16	0.44
8:AI:196:ILE:H	8:AI:196:ILE:HD12	1.82	0.44
8:AK:304:ASP:O	8:AK:308:THR:HG23	2.17	0.44
3:AM:17:SER:OG	9:AR:49:LYS:NZ	2.50	0.44
3:AP:25:LEU:HD23	3:AP:25:LEU:H	1.82	0.44
3:AN:70:ASN:N	3:AN:108:MET:HE2	2.32	0.44
3:AO:49:GLN:O	3:AO:50:ASP:HB2	2.16	0.44
9:AX:22:ALA:HB3	9:AX:23:PRO:HD3	1.99	0.44
2:l:189:GLY:O	2:l:193:GLU:HG2	2.18	0.44
2:l:192:ASP:HA	2:l:195:PHE:HB2	2.00	0.44
2:o:71:ALA:HB3	2:o:130:TYR:CE2	2.52	0.44
2:p:14:GLU:O	2:i:23:ARG:NH2	2.47	0.44
2:p:17:LYS:HE3	3:AM:106:ARG:CD	2.45	0.44
2:k:148:ILE:O	2:k:152:ILE:HG12	2.17	0.44
5:h1:427:MET:HA	5:h1:447:ALA:HB2	1.99	0.44
5:k1:218:LEU:O	5:n1:247:TYR:OH	2.33	0.44
5:k1:427:MET:HE2	5:k1:427:MET:HB3	1.89	0.44
5:r1:283:GLN:HE21	5:r1:283:GLN:HB2	1.62	0.44
5:r1:345:HIS:CG	5:r1:388:ASP:HB3	2.53	0.44
6:s1:64:PRO:HG2	6:s1:66:ILE:HD11	2.00	0.44
5:g2:222:THR:OG1	5:g2:224:ASP:O	2.36	0.44
5:k2:374:ASP:N	5:k2:374:ASP:OD2	2.51	0.44
5:o2:223:CYS:SG	5:r2:292:ASN:ND2	2.90	0.44
5:o2:281:ARG:NH2	5:o2:422:VAL:O	2.50	0.44
6:q2:77:VAL:HG23	6:q2:78:LEU:H	1.83	0.44
7:J3:61:ILE:HG21	7:J3:168:VAL:HG23	1.99	0.44
7:L3:116:GLU:OE1	7:L3:116:GLU:N	2.50	0.44
7:N3:217:VAL:H	7:O3:34:VAL:HB	1.81	0.44
7:Q3:138:TRP:CZ3	7:Q3:147:GLU:HB3	2.53	0.44
7:U3:6:VAL:HG21	7:U3:218:HIS:CE1	2.52	0.44
7:U3:92:PHE:HB2	7:U3:141:ILE:HG21	2.00	0.44
7:d3:80:VAL:HG23	7:d3:153:ASP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e3:205:ARG:HB3	7:f3:107:LEU:HD12	1.99	0.44
7:f3:209:ILE:HG12	7:f3:210:ASP:N	2.32	0.44
7:f3:210:ASP:OD1	7:f3:213:GLY:N	2.51	0.44
7:h3:78:THR:HB	7:h3:84:PHE:HD2	1.83	0.44
7:h3:132:THR:HA	7:h3:152:VAL:HG23	1.99	0.44
7:l3:29:ALA:HB2	7:l3:224:ILE:HD11	1.99	0.44
7:l3:200:TYR:HB2	7:l3:224:ILE:HG23	1.99	0.44
7:43:135:ASP:OD1	7:43:136:ARG:N	2.50	0.44
7:03:133:GLY:H	7:03:152:VAL:HG23	1.82	0.44
7:F3:88:LEU:HG	7:F3:141:ILE:HD11	2.00	0.44
7:G3:200:TYR:HB2	7:G3:224:ILE:HD11	1.99	0.44
5:n5:342:SER:N	5:n5:379:ARG:O	2.50	0.44
5:n5:378:GLU:OE1	5:o5:369:LEU:HD22	2.17	0.44
6:s5:35:PHE:HB2	6:s5:99:CYS:HB2	2.00	0.44
6:s5:37:THR:HG22	6:s5:38:ILE:H	1.82	0.44
5:n6:214:ASP:N	5:n6:214:ASP:OD1	2.50	0.44
5:o6:329:PHE:CD2	5:o6:462:LEU:HD13	2.53	0.44
1:e7:12:ALA:HB3	5:o7:302:CYS:HA	1.98	0.44
5:g7:210:MET:HB2	5:h7:183:GLU:OE1	2.18	0.44
5:k7:304:PRO:HD2	5:k7:459:GLY:O	2.18	0.44
8:AB:73:TRP:HH2	8:AB:113:LEU:HD22	1.83	0.44
8:AC:305:GLN:O	8:AC:309:ILE:HG12	2.17	0.44
8:AG:100:ILE:CD1	8:AG:141:ALA:HA	2.48	0.44
8:AJ:127:MET:O	8:AJ:196:ILE:N	2.49	0.44
8:AJ:359:SER:OG	8:AJ:368:ARG:HB2	2.16	0.44
8:AJ:402:ARG:HH21	8:AJ:407:TRP:HB3	1.82	0.44
9:AQ:76:LEU:HD12	9:AQ:155:TRP:HB2	1.98	0.44
3:AP:85:ARG:HH22	3:AP:91:ARG:HH11	1.64	0.44
10:AZ:52:ASN:N	10:AV:61:ASN:OD1	2.51	0.44
10:Aa:17:THR:OG1	10:Aa:84:GLN:HB3	2.18	0.44
10:Aa:32:GLN:HG3	10:Aa:33:PRO:HD2	1.99	0.44
1:e:21:PRO:HB3	5:h1:351:TYR:CE2	2.53	0.44
2:n:53:THR:HG22	2:n:131:VAL:HB	1.99	0.44
2:p:46:LEU:HD23	2:p:48:PHE:CZ	2.51	0.44
2:q:62:GLY:O	2:q:64:ARG:N	2.51	0.44
5:h1:218:LEU:HB3	5:k1:445:PHE:CZ	2.52	0.44
6:v1:70:GLU:HB2	6:v1:85:ALA:HB2	2.00	0.44
5:h2:218:LEU:HD12	5:k2:273:ALA:HA	2.00	0.44
6:l2:42:THR:OG1	6:l2:122:ASN:ND2	2.50	0.44
6:q2:62:PRO:HB3	6:q2:110:TRP:CD2	2.53	0.44
6:s2:62:PRO:HA	6:s2:110:TRP:CZ2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:u2:9:PHE:HA	6:u2:132:MET:O	2.18	0.44
7:K3:77:ARG:HD3	7:K3:158:GLU:OE2	2.18	0.44
7:K3:171:PRO:O	7:K3:175:ARG:NH2	2.51	0.44
7:P3:30:ARG:O	7:P3:33:GLU:HG2	2.18	0.44
7:W3:13:SER:O	7:W3:14:LYS:HB2	2.18	0.44
7:W3:35:ASN:OD1	7:W3:36:GLY:N	2.42	0.44
7:W3:156:THR:OG1	7:W3:157:SER:N	2.50	0.44
7:b3:78:THR:HB	7:b3:84:PHE:HD2	1.83	0.44
7:c3:53:LEU:HD12	7:c3:206:GLN:CD	2.43	0.44
7:k3:77:ARG:NH1	7:k3:159:LEU:O	2.51	0.44
7:l3:24:CYS:HB2	7:l3:223:ASP:OD2	2.18	0.44
7:13:167:PRO:HA	7:13:191:SER:HB3	2.00	0.44
7:13:194:ALA:HB1	7:13:226:ILE:HG21	1.99	0.44
7:33:35:ASN:OD1	7:33:36:GLY:N	2.42	0.44
7:03:154:PRO:O	7:03:155:THR:HG22	2.18	0.44
7:03:174:ARG:NE	7:03:187:VAL:HG21	2.33	0.44
7:B3:108:ASN:HB3	7:B3:138:TRP:HD1	1.82	0.44
4:f5:16:VAL:HG13	5:k5:396:GLY:H	1.82	0.44
6:s5:18:GLU:OE1	6:s5:18:GLU:N	2.51	0.44
5:h6:436:SER:OG	5:h6:441:VAL:HA	2.18	0.44
6:l6:91:GLU:HG3	6:l6:92:THR:HG23	1.99	0.44
6:v6:20:SER:OG	6:v6:21:PHE:N	2.51	0.44
5:g7:223:CYS:SG	5:g7:224:ASP:N	2.91	0.44
6:m7:103:VAL:HG22	6:m7:105:CYS:H	1.83	0.44
6:t7:123:ALA:O	6:t7:126:VAL:HG12	2.18	0.44
8:AC:276:ILE:HG22	8:AD:243:TRP:HB2	1.99	0.44
8:AD:292:ASP:OD2	8:AD:292:ASP:N	2.51	0.44
8:AJ:251:LEU:HD23	8:AJ:251:LEU:HA	1.59	0.44
8:AK:355:GLU:HG3	8:AK:369:VAL:HG13	1.99	0.44
8:AL:299:LYS:HA	8:AL:299:LYS:HD2	1.72	0.44
9:AR:40:ASP:OD2	9:AR:41:ASP:N	2.50	0.44
3:AN:69:TYR:HD2	3:AN:108:MET:HG2	1.83	0.44
10:AV:96:VAL:HG12	10:AV:127:LEU:HB2	2.00	0.44
2:a:138:ASN:O	2:a:140:VAL:HG22	2.18	0.44
2:k:66:LYS:HZ1	2:k:68:ILE:HG22	1.82	0.44
2:m:20:ASP:HB2	3:AO:87:LYS:HG3	1.99	0.44
3:I:49:GLN:HG2	3:AM:76:SER:HB2	1.99	0.44
6:l1:30:GLN:O	6:l1:133:LYS:N	2.51	0.44
6:v1:94:THR:O	6:v1:97:SER:OG	2.36	0.44
1:e2:9:LEU:HD11	6:v2:98:PHE:CD1	2.40	0.44
5:g2:422:VAL:HG23	5:g2:451:GLY:HA2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o2:370:THR:OG1	5:o2:372:THR:HG23	2.18	0.44
6:s2:58:ASP:O	6:s2:61:VAL:HG12	2.17	0.44
6:s2:70:GLU:HB3	6:s2:85:ALA:HA	1.99	0.44
6:t2:46:THR:HG22	6:t2:88:THR:HG23	1.99	0.44
7:P3:48:LEU:HD12	7:Q3:1:MET:HE3	1.99	0.44
7:X3:138:TRP:CE3	7:X3:147:GLU:HB3	2.52	0.44
7:Z3:156:THR:OG1	7:Z3:157:SER:N	2.51	0.44
7:g3:74:ALA:HB2	7:g3:91:LEU:HD11	2.00	0.44
7:h3:200:TYR:HB2	7:h3:224:ILE:HG13	2.00	0.44
7:i3:92:PHE:CE2	7:i3:94:ASN:HB3	2.53	0.44
7:l3:83:VAL:HG23	7:l3:126:THR:HG22	1.98	0.44
7:53:194:ALA:HB1	7:53:226:ILE:HG21	2.00	0.44
7:63:80:VAL:HG23	7:63:153:ASP:O	2.18	0.44
7:73:154:PRO:O	7:73:155:THR:HG22	2.17	0.44
7:93:209:ILE:HD11	7:93:213:GLY:HA2	2.00	0.44
7:03:21:SER:OG	7:03:22:CYS:N	2.51	0.44
7:03:88:LEU:HG	7:03:141:ILE:HD11	2.00	0.44
5:n5:316:THR:OG1	5:n5:317:SER:N	2.48	0.44
5:o5:207:PHE:N	5:o5:242:GLY:O	2.50	0.44
6:s5:27:GLY:O	6:s5:136:THR:OG1	2.33	0.44
1:a6:9:LEU:HD23	6:l6:97:SER:HA	1.99	0.44
5:n6:327:ARG:HG3	5:o6:370:THR:HA	1.99	0.44
5:o6:248:ARG:HA	5:o6:446:GLY:HA2	2.00	0.44
6:t6:56:ASP:OD2	6:t6:56:ASP:N	2.50	0.44
5:g7:196:LEU:HD21	5:g7:381:ARG:HD3	2.00	0.44
5:k7:196:LEU:HD23	5:k7:196:LEU:HA	1.90	0.44
6:l7:35:PHE:CD1	6:l7:89:LEU:HD21	2.53	0.44
6:l7:120:GLU:OE1	6:l7:120:GLU:N	2.45	0.44
6:p7:58:ASP:O	6:p7:61:VAL:HG22	2.18	0.44
6:s7:47:PHE:N	6:s7:87:VAL:O	2.51	0.44
6:v7:73:PHE:CZ	6:v7:104:PRO:HG2	2.53	0.44
8:AA:355:GLU:OE1	8:AA:370:ILE:HA	2.18	0.44
8:AB:335:ASP:N	8:AB:335:ASP:OD1	2.50	0.44
8:AC:285:LYS:NZ	8:AC:287:GLN:HB3	2.33	0.44
8:AD:93:GLN:HG2	8:AD:187:ARG:NH2	2.33	0.44
8:AF:131:VAL:HG21	8:AF:192:TYR:CZ	2.53	0.44
8:AF:190:LYS:HD3	8:AF:191:ASN:H	1.83	0.44
8:AG:60:CYS:SG	8:AG:315:ILE:HG13	2.58	0.44
8:AI:319:LEU:HD11	8:AI:338:ARG:HG2	1.99	0.44
8:AK:178:THR:O	8:AK:179:LYS:HE2	2.18	0.44
8:AK:388:ALA:HB1	8:AL:392:LYS:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AL:379:LEU:O	8:AL:383:ARG:HG2	2.18	0.44
9:AQ:31:ARG:NH1	9:AQ:49:LYS:HD2	2.33	0.44
3:AP:46:ARG:NE	3:AN:77:VAL:HG23	2.33	0.44
9:AX:50:LEU:HG	9:AX:87:LYS:HE3	2.00	0.44
2:a:14:GLU:OE1	3:H:36:TRP:NE1	2.47	0.43
2:b:43:TYR:CE2	2:b:194:TRP:HB3	2.53	0.43
2:b:77:ARG:HD3	2:b:131:VAL:HG11	1.98	0.43
2:l:25:THR:OG1	2:l:26:ASP:N	2.50	0.43
2:n:77:ARG:HH21	2:n:131:VAL:HG12	1.83	0.43
2:n:95:ARG:HH21	2:q:57:PRO:HD2	1.83	0.43
2:j:154:TRP:CG	2:j:188:SER:HG	2.36	0.43
2:k:168:ASN:OD1	2:k:169:THR:N	2.51	0.43
2:m:66:LYS:HD3	8:AB:271:ASP:HB3	2.00	0.43
6:p1:36:LYS:O	6:p1:127:GLN:N	2.42	0.43
6:q1:15:TRP:HB3	6:q1:128:ILE:HB	2.00	0.43
6:q1:89:LEU:HD21	6:q1:93:VAL:HG11	1.99	0.43
5:h2:294:PRO:HG3	5:h2:450:GLY:HA2	1.99	0.43
6:p2:13:ILE:HD12	6:q2:127:GLN:HB3	2.00	0.43
6:s2:9:PHE:CE1	6:s2:133:LYS:HD2	2.53	0.43
6:t2:80:SER:OG	6:t2:81:GLU:N	2.51	0.43
7:M3:120:ASN:OD1	7:M3:120:ASN:N	2.51	0.43
7:N3:71:VAL:HG13	7:N3:144:ASN:HB2	2.00	0.43
7:O3:136:ARG:HG2	7:O3:149:VAL:HG23	1.99	0.43
7:W3:153:ASP:OD1	7:W3:159:LEU:HB2	2.18	0.43
7:Y3:157:SER:O	7:Y3:158:GLU:HG2	2.18	0.43
7:a3:178:ASP:OD2	7:a3:181:THR:HG22	2.18	0.43
7:d3:27:ILE:HB	7:d3:224:ILE:HG22	2.00	0.43
7:h3:101:GLU:OE1	7:h3:101:GLU:N	2.51	0.43
7:p3:166:THR:OG1	7:p3:168:VAL:O	2.35	0.43
7:x3:78:THR:HB	7:x3:84:PHE:HD2	1.81	0.43
7:23:90:ASP:OD1	7:23:90:ASP:N	2.50	0.43
7:53:9:ARG:NH2	7:63:230:GLY:OXT	2.47	0.43
7:A3:200:TYR:HB2	7:A3:224:ILE:HG13	1.98	0.43
7:C3:78:THR:HB	7:C3:84:PHE:HD2	1.83	0.43
5:k5:193:LEU:HD11	5:k5:343:VAL:HG11	2.00	0.43
6:p5:68:VAL:O	6:p5:84:LEU:HA	2.17	0.43
6:m6:9:PHE:CD1	6:m6:133:LYS:HA	2.53	0.43
5:h7:220:GLU:OE1	5:h7:230:GLU:N	2.46	0.43
5:n7:228:ASP:N	5:n7:228:ASP:OD1	2.51	0.43
5:o7:193:LEU:HD22	5:o7:343:VAL:HG21	1.99	0.43
8:AB:251:LEU:HD21	8:AB:282:THR:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AC:352:THR:HA	8:AC:355:GLU:HG2	2.01	0.43
8:AF:25:ILE:HG23	8:AF:28:ARG:NH2	2.33	0.43
8:AF:104:PRO:HB3	8:AF:142:ILE:HG23	1.99	0.43
8:AG:100:ILE:HD12	8:AG:103:ARG:O	2.18	0.43
8:AH:68:VAL:O	8:AH:71:VAL:HG12	2.18	0.43
8:AI:63:LYS:NZ	8:AI:319:LEU:HB3	2.33	0.43
8:AK:267:LYS:HD2	8:AL:237:GLY:HA2	2.00	0.43
8:AL:183:ASN:HB2	8:AL:189:ILE:HD11	1.99	0.43
10:AU:17:THR:HG23	10:AU:84:GLN:HB3	1.99	0.43
10:AU:32:GLN:NE2	10:AU:36:THR:O	2.40	0.43
10:AU:117:MET:HE3	10:AU:117:MET:HA	2.00	0.43
9:AW:28:ILE:HG23	9:AW:52:PHE:HA	2.00	0.43
1:f:24:PHE:HZ	5:k2:360:GLY:HA2	1.84	0.43
1:g:30:ALA:HB3	1:g:31:PRO:HD3	1.99	0.43
2:b:157:ASN:HD21	2:o:161:ASP:CG	2.26	0.43
2:l:59:ARG:HH12	2:l:61:LYS:NZ	2.17	0.43
2:l:145:ILE:HD12	2:l:148:ILE:HD12	2.00	0.43
2:p:135:ARG:HE	2:p:136:CYS:H	1.66	0.43
2:j:74:ILE:HG13	2:j:75:ALA:N	2.29	0.43
2:m:115:GLY:O	5:h2:234:PRO:HB3	2.17	0.43
5:h1:322:LEU:HD23	5:h1:325:ASP:OD1	2.18	0.43
5:n1:214:ASP:HA	5:o1:187:ASN:HD21	1.83	0.43
6:s1:67:ARG:HE	6:s1:84:LEU:HG	1.84	0.43
5:o2:252:CYS:HB3	5:o2:442:LYS:HD3	2.00	0.43
7:J3:83:VAL:HG23	7:J3:126:THR:HG22	2.00	0.43
7:J3:108:ASN:HB3	7:J3:138:TRP:CD1	2.53	0.43
7:N3:2:TYR:HH	7:N3:28:SER:HG	1.63	0.43
7:O3:8:PRO:HG2	7:O3:10:ASN:OD1	2.18	0.43
7:Q3:78:THR:HB	7:Q3:84:PHE:HD2	1.83	0.43
7:Q3:206:GLN:O	7:Q3:218:HIS:N	2.46	0.43
7:T3:134:VAL:HG21	7:T3:162:PRO:HG3	2.00	0.43
7:U3:21:SER:OG	7:U3:22:CYS:N	2.51	0.43
7:U3:133:GLY:H	7:U3:152:VAL:HG13	1.83	0.43
7:X3:79:LYS:HE3	7:X3:155:THR:HA	2.00	0.43
7:f3:27:ILE:O	7:f3:224:ILE:HD12	2.18	0.43
7:g3:178:ASP:OD2	7:g3:181:THR:HG22	2.18	0.43
7:g3:210:ASP:OD2	7:g3:214:ASN:ND2	2.37	0.43
7:i3:38:MET:HE3	7:i3:183:VAL:HG21	2.00	0.43
7:q3:157:SER:O	7:q3:158:GLU:HG2	2.18	0.43
7:s3:80:VAL:HG12	7:s3:155:THR:HB	2.01	0.43
7:x3:106:GLU:OE1	7:x3:106:GLU:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:13:71:VAL:HG13	7:13:144:ASN:HB2	1.99	0.43
7:93:64:VAL:HB	7:93:199:VAL:HG23	2.00	0.43
7:D3:202:LEU:O	7:D3:222:TYR:N	2.43	0.43
5:g5:339:GLU:OE2	5:g5:379:ARG:HD2	2.18	0.43
5:k5:185:ASP:OD1	5:k5:186:CYS:N	2.46	0.43
6:l5:94:THR:O	6:l5:97:SER:OG	2.36	0.43
5:r5:282:ASN:O	5:r5:286:MET:HG2	2.18	0.43
1:e6:11:GLN:HB3	5:o6:302:CYS:HB3	2.00	0.43
5:o6:238:ARG:HE	5:o6:238:ARG:HB3	1.62	0.43
5:r6:233:GLU:HA	5:r6:234:PRO:HD3	1.89	0.43
5:r6:391:GLU:H	5:r6:395:LYS:HB2	1.82	0.43
6:v6:62:PRO:HB3	6:v6:110:TRP:CD1	2.53	0.43
5:h7:247:TYR:O	5:h7:447:ALA:N	2.47	0.43
5:h7:429:PHE:CD1	5:h7:445:PHE:HB3	2.53	0.43
6:s7:2:ASN:HA	6:t7:30:GLN:HG2	2.00	0.43
8:AC:351:LEU:HB3	8:AC:371:PHE:CZ	2.53	0.43
8:AF:54:HIS:HB3	8:AF:57:ALA:HB3	2.00	0.43
8:AG:50:ARG:HH22	8:AG:54:HIS:HB2	1.83	0.43
8:AG:304:ASP:O	8:AG:308:THR:HG23	2.17	0.43
8:AH:163:PHE:CZ	8:AH:195:MET:HB2	2.53	0.43
8:AI:169:ALA:HB3	8:AJ:28:ARG:HD3	2.00	0.43
8:AI:242:LYS:HD3	8:AI:243:TRP:CD1	2.53	0.43
9:AQ:25:PHE:O	9:AQ:28:ILE:HG12	2.18	0.43
10:AY:46:THR:HG22	10:AY:60:SER:HB3	1.99	0.43
2:a:43:TYR:HD1	8:AF:252:ASP:OD2	2.01	0.43
2:a:140:VAL:O	2:a:145:ILE:HD11	2.18	0.43
2:b:95:ARG:HH22	2:o:57:PRO:HB2	1.84	0.43
2:h:89:PRO:HB2	7:X3:49:ARG:HG2	2.00	0.43
2:h:154:TRP:HE3	2:j:161:ASP:HA	1.84	0.43
2:h:192:ASP:HB2	2:j:183:ASN:HA	1.99	0.43
2:i:167:ARG:HA	2:i:167:ARG:HD2	1.80	0.43
2:j:40:ALA:HB2	2:j:194:TRP:CZ2	2.54	0.43
2:j:109:ASP:HA	5:h6:239:HIS:O	2.18	0.43
2:k:20:ASP:HA	3:AM:86:LEU:HB2	2.00	0.43
2:k:72:THR:HA	2:k:99:ASN:HB3	2.00	0.43
2:m:173:ASN:HD21	2:m:177:LEU:HB3	1.82	0.43
5:h1:400:GLN:OE1	5:h1:401:ASP:HB2	2.18	0.43
5:n1:422:VAL:HG22	5:n1:450:GLY:C	2.42	0.43
5:g2:254:ASN:HA	5:g2:440:CYS:HA	2.00	0.43
5:k2:196:LEU:HD11	5:k2:381:ARG:CD	2.47	0.43
5:k2:397:GLY:HA2	5:k2:401:ASP:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l2:106:MET:HE3	6:l2:106:MET:HB3	1.86	0.43
7:M3:90:ASP:OD1	7:M3:90:ASP:N	2.50	0.43
7:N3:94:ASN:OD1	7:N3:94:ASN:N	2.50	0.43
7:O3:154:PRO:O	7:O3:156:THR:HG23	2.18	0.43
7:R3:92:PHE:HB2	7:R3:141:ILE:HG21	1.99	0.43
7:S3:120:ASN:OD1	7:S3:120:ASN:N	2.51	0.43
7:U3:138:TRP:CE3	7:U3:147:GLU:HB3	2.53	0.43
7:V3:118:GLY:N	7:V3:122:ALA:O	2.42	0.43
7:Z3:83:VAL:HG23	7:Z3:126:THR:HG22	1.99	0.43
7:Z3:88:LEU:N	7:Z3:121:GLY:O	2.50	0.43
7:b3:77:ARG:NH1	7:b3:159:LEU:O	2.50	0.43
7:f3:61:ILE:HG21	7:f3:168:VAL:HG23	2.00	0.43
7:k3:154:PRO:O	7:k3:155:THR:HG22	2.18	0.43
7:l3:28:SER:OG	7:l3:230:GLY:OXT	2.36	0.43
7:n3:94:ASN:OD1	7:n3:94:ASN:N	2.50	0.43
7:u3:78:THR:HB	7:u3:84:PHE:HD2	1.83	0.43
7:x3:133:GLY:H	7:x3:152:VAL:HG23	1.83	0.43
7:13:77:ARG:NH2	7:13:158:GLU:OE1	2.51	0.43
7:83:157:SER:O	7:83:158:GLU:HG2	2.18	0.43
7:03:217:VAL:H	7:A3:34:VAL:HB	1.82	0.43
7:D3:157:SER:O	7:D3:158:GLU:HG2	2.18	0.43
7:E3:58:THR:HG22	7:F3:107:LEU:HD23	2.00	0.43
1:a5:20:SER:OG	1:a5:21:PRO:HD2	2.18	0.43
5:k5:263:TYR:O	8:AL:42:TYR:OH	2.29	0.43
5:n5:214:ASP:OD1	5:n5:214:ASP:N	2.51	0.43
6:u5:67:ARG:HE	6:u5:84:LEU:HB3	1.82	0.43
6:v5:43:ALA:HA	6:v5:91:GLU:HG2	2.00	0.43
6:v5:106:MET:N	6:v5:106:MET:SD	2.92	0.43
5:g6:199:GLN:O	5:g6:200:ILE:HD13	2.19	0.43
5:h6:393:ASN:O	5:h6:394:THR:HG22	2.18	0.43
6:l6:48:ASN:OD1	6:l6:67:ARG:NH2	2.51	0.43
6:v6:69:PRO:HD2	6:v6:107:ASN:ND2	2.33	0.43
5:h7:208:THR:HA	5:h7:241:GLU:HA	2.00	0.43
5:h7:429:PHE:HB2	8:AB:29:ARG:HB2	2.00	0.43
6:l7:55:SER:HB3	6:l7:61:VAL:O	2.18	0.43
5:r7:247:TYR:CD2	5:r7:277:HIS:HD2	2.36	0.43
8:AA:276:ILE:HB	8:AB:243:TRP:O	2.19	0.43
8:AA:351:LEU:HB3	8:AA:371:PHE:CZ	2.53	0.43
8:AC:54:HIS:HE1	8:AC:56:VAL:HB	1.82	0.43
8:AC:339:LYS:HB3	8:AC:339:LYS:HE2	1.75	0.43
8:AD:339:LYS:O	8:AD:343:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AF:98:GLN:HG2	8:AG:82:THR:HG21	2.00	0.43
8:AF:305:GLN:O	8:AF:309:ILE:HG13	2.18	0.43
8:AG:293:LEU:HG	8:AG:293:LEU:O	2.19	0.43
8:AJ:150:LEU:HD13	8:AJ:165:TYR:HD2	1.82	0.43
10:AU:7:ASN:OD1	10:AU:8:GLY:N	2.51	0.43
10:AU:15:THR:OG1	10:AU:86:ASP:HB2	2.17	0.43
9:AS:92:ARG:HB3	9:AS:94:ARG:NH2	2.32	0.43
9:AT:88:LYS:NZ	9:AT:103:SER:HB2	2.33	0.43
10:Aa:64:MET:HB3	10:Aa:119:ILE:HG23	2.00	0.43
9:AX:94:ARG:HG3	9:AX:94:ARG:NH2	2.32	0.43
2:l:64:ARG:H	2:l:66:LYS:NZ	2.15	0.43
2:l:196:ARG:HG2	8:AA:252:ASP:OD2	2.19	0.43
2:n:165:SER:HA	2:n:182:ASN:HB3	2.00	0.43
2:o:79:VAL:HG22	2:o:92:LEU:O	2.17	0.43
2:p:51:GLU:OE2	7:R3:12:ALA:HB1	2.19	0.43
2:h:30:LYS:HE3	2:h:30:LYS:HB3	1.85	0.43
5:g1:371:PHE:CE2	5:h1:369:LEU:HD11	2.53	0.43
5:k1:196:LEU:HD13	5:k1:415:TRP:CD1	2.53	0.43
5:n1:246:ASP:OD1	5:n1:246:ASP:N	2.51	0.43
5:n1:281:ARG:O	5:n1:285:LEU:N	2.51	0.43
5:g2:253:PHE:HZ	5:g2:269:MET:HE3	1.84	0.43
5:k2:196:LEU:HD11	5:k2:381:ARG:HD2	1.99	0.43
5:k2:256:LYS:HA	5:k2:259:GLN:HE21	1.83	0.43
6:p2:47:PHE:CZ	6:p2:126:VAL:HG11	2.53	0.43
6:q2:41:LEU:HD11	6:q2:89:LEU:HD22	2.00	0.43
6:s2:64:PRO:HG2	6:s2:66:ILE:HD11	1.99	0.43
6:u2:2:ASN:HA	6:v2:30:GLN:HG2	2.00	0.43
7:O3:92:PHE:HB2	7:O3:141:ILE:HG21	2.00	0.43
7:W3:217:VAL:H	7:X3:34:VAL:HB	1.82	0.43
7:Z3:71:VAL:HG12	7:Z3:92:PHE:HD1	1.83	0.43
7:a3:174:ARG:CZ	7:a3:187:VAL:HG21	2.49	0.43
7:m3:80:VAL:HG23	7:m3:153:ASP:O	2.18	0.43
7:n3:118:GLY:HA3	7:n3:122:ALA:HB3	2.01	0.43
7:n3:157:SER:O	7:n3:158:GLU:HG2	2.18	0.43
7:p3:56:LYS:HB2	7:p3:56:LYS:HE3	1.80	0.43
7:23:55:ASN:ND2	7:23:177:VAL:HG12	2.34	0.43
7:33:73:ASN:HB3	7:33:164:PHE:CE1	2.54	0.43
7:33:80:VAL:HG23	7:33:153:ASP:O	2.19	0.43
7:43:50:GLY:HA2	7:43:211:CYS:SG	2.59	0.43
7:83:29:ALA:HB1	7:83:190:VAL:HG21	1.99	0.43
7:B3:64:VAL:HB	7:B3:199:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F3:135:ASP:OD1	7:F3:136:ARG:N	2.50	0.43
7:F3:154:PRO:O	7:F3:156:THR:HG23	2.18	0.43
5:k5:291:VAL:HG21	6:m5:107:ASN:HA	2.00	0.43
5:k5:364:PHE:CE1	5:n5:369:LEU:HD23	2.53	0.43
5:o5:432:TYR:HB3	5:o5:442:LYS:O	2.18	0.43
5:r5:197:TYR:HE2	5:r5:286:MET:HE1	1.83	0.43
6:u6:24:LYS:HD2	6:u6:110:TRP:CH2	2.54	0.43
5:n7:332:SER:O	5:n7:460:ARG:NH1	2.49	0.43
5:o7:229:ALA:HB1	5:r7:249:GLY:HA2	2.01	0.43
6:p7:133:LYS:HZ3	6:q7:3:PHE:HB2	1.83	0.43
5:r7:394:THR:O	5:r7:395:LYS:HE2	2.19	0.43
6:s7:50:PHE:CE1	6:s7:67:ARG:HG2	2.53	0.43
6:s7:50:PHE:HE2	6:s7:114:ALA:HB3	1.83	0.43
6:v7:120:GLU:OE2	6:v7:120:GLU:N	2.50	0.43
8:AA:80:GLN:H	8:AA:80:GLN:CD	2.27	0.43
8:AE:166:GLY:HA3	8:AF:28:ARG:HH22	1.82	0.43
8:AF:21:ASN:HD21	8:AF:158:GLY:HA3	1.83	0.43
8:AF:266:THR:HA	8:AF:273:GLY:HA2	2.00	0.43
8:AG:317:ILE:HD12	8:AG:317:ILE:H	1.83	0.43
8:AH:121:TRP:CZ2	8:AH:198:LYS:HE2	2.53	0.43
8:AH:396:ILE:HG22	8:AH:401:LYS:HG3	1.99	0.43
8:AI:194:PHE:CZ	8:AI:362:LEU:HD21	2.54	0.43
8:AK:243:TRP:CH2	8:AL:289:MET:HE3	2.47	0.43
10:AU:26:GLY:HA2	10:AU:28:ILE:HG13	2.00	0.43
10:AU:47:ASN:HD22	10:AU:55:VAL:HG21	1.84	0.43
3:AP:25:LEU:HD11	9:AT:100:PRO:HG2	2.00	0.43
10:AZ:90:GLU:HG3	10:AZ:96:VAL:HG22	1.98	0.43
10:AV:95:THR:OG1	10:AV:129:PRO:HD3	2.18	0.43
3:AO:11:ILE:HG13	3:AO:34:GLN:HG3	1.99	0.43
3:AO:101:VAL:HG22	3:AO:107:TYR:O	2.18	0.43
2:b:199:ARG:HH21	8:AI:282:THR:HG23	1.82	0.43
2:l:158:ASN:HD21	2:p:161:ASP:HA	1.84	0.43
2:p:77:ARG:HD3	2:p:131:VAL:CG1	2.47	0.43
2:k:69:LEU:HD23	2:k:69:LEU:HA	1.86	0.43
2:m:133:GLY:O	2:m:134:ARG:HG3	2.18	0.43
1:b1:23:CYS:HB3	1:e1:26:CYS:HB3	1.49	0.43
6:t1:70:GLU:HB3	6:t1:84:LEU:N	2.34	0.43
5:n2:220:GLU:OE1	5:n2:220:GLU:N	2.41	0.43
5:n2:427:MET:HG2	5:n2:447:ALA:HB2	2.00	0.43
5:o2:224:ASP:O	5:o2:226:LYS:N	2.51	0.43
6:t2:28:PHE:CG	6:t2:132:MET:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:t2:51:TYR:HB3	6:t2:68:VAL:HG22	1.99	0.43
6:v2:56:ASP:OD1	6:v2:56:ASP:N	2.52	0.43
6:v2:82:ASP:CG	6:v2:84:LEU:HG	2.44	0.43
7:J3:88:LEU:N	7:J3:121:GLY:O	2.49	0.43
7:K3:88:LEU:N	7:K3:121:GLY:O	2.49	0.43
7:L3:210:ASP:OD1	7:L3:214:ASN:N	2.50	0.43
7:S3:138:TRP:CE3	7:S3:147:GLU:HB3	2.54	0.43
7:m3:89:SER:OG	7:m3:121:GLY:HA3	2.19	0.43
7:o3:78:THR:HB	7:o3:84:PHE:HD2	1.83	0.43
7:r3:120:ASN:OD1	7:r3:120:ASN:N	2.52	0.43
7:u3:156:THR:OG1	7:u3:157:SER:N	2.51	0.43
7:B3:217:VAL:H	7:C3:34:VAL:HB	1.83	0.43
7:E3:108:ASN:HB3	7:E3:138:TRP:HD1	1.82	0.43
5:h5:336:GLU:HG3	5:k5:188:ILE:CG2	2.47	0.43
5:n5:326:TRP:HE1	5:o5:369:LEU:HD21	1.83	0.43
5:r5:208:THR:HA	5:r5:241:GLU:HA	1.99	0.43
6:v5:9:PHE:CE1	6:v5:133:LYS:HG3	2.53	0.43
6:m6:72:PRO:HA	6:m6:76:THR:HG21	1.98	0.43
5:n6:229:ALA:HB1	5:o6:249:GLY:HA2	1.99	0.43
6:p6:69:PRO:HD2	6:p6:107:ASN:HD21	1.84	0.43
6:l7:121:THR:HG23	6:l7:122:ASN:H	1.82	0.43
5:n7:373:PRO:HG2	5:n7:375:LEU:HD22	2.00	0.43
5:n7:427:MET:HG2	5:n7:447:ALA:HB2	2.00	0.43
5:o7:377:ARG:HA	5:o7:377:ARG:NE	2.33	0.43
6:q7:24:LYS:HG2	6:q7:26:ASP:H	1.83	0.43
6:s7:9:PHE:CE1	6:s7:133:LYS:HD2	2.54	0.43
8:AA:28:ARG:HH22	8:AL:167:ASP:H	1.66	0.43
8:AA:170:GLY:HA3	8:AB:25:ILE:HD12	2.01	0.43
8:AD:129:PHE:HB2	8:AD:194:PHE:CD2	2.54	0.43
8:AE:343:GLU:HG2	8:AE:347:GLU:OE2	2.18	0.43
8:AE:355:GLU:HB2	8:AE:371:PHE:HE1	1.82	0.43
8:AH:150:LEU:HD13	8:AH:165:TYR:CD2	2.54	0.43
8:AJ:348:PRO:HA	8:AJ:352:THR:HG22	2.01	0.43
8:AL:25:ILE:O	8:AL:28:ARG:NE	2.51	0.43
8:AL:196:ILE:H	8:AL:196:ILE:HD12	1.82	0.43
8:AL:220:PRO:HA	8:AL:305:GLN:OE1	2.18	0.43
9:AQ:118:MET:HE3	9:AQ:129:PHE:HD2	1.82	0.43
10:AZ:38:PRO:HB3	10:AZ:66:LEU:HD13	1.99	0.43
10:Ab:66:LEU:HG	10:Ab:68:VAL:HG23	2.00	0.43
2:l:28:LEU:HD22	2:m:14:GLU:HG3	1.99	0.43
2:p:61:LYS:HD2	8:AA:265:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:p:159:PRO:HD3	3:I:4:ALA:HB2	2.00	0.43
2:i:30:LYS:O	2:i:34:GLU:HG3	2.19	0.43
2:j:32:TYR:CE1	2:j:155:ASN:HB3	2.53	0.43
5:k1:196:LEU:HD11	5:k1:381:ARG:HD2	2.00	0.43
6:l1:24:LYS:HE2	6:l1:26:ASP:HB3	2.01	0.43
5:n1:267:SER:HA	5:n1:270:ILE:HD11	2.00	0.43
5:n2:303:PHE:HA	5:n2:304:PRO:HD2	1.89	0.43
7:K3:108:ASN:HB3	7:K3:138:TRP:CD1	2.53	0.43
7:L3:156:THR:OG1	7:L3:157:SER:N	2.52	0.43
7:S3:157:SER:OG	7:S3:158:GLU:N	2.51	0.43
7:b3:154:PRO:O	7:b3:155:THR:HG22	2.18	0.43
7:d3:154:PRO:HG2	7:d3:156:THR:HG22	2.01	0.43
7:e3:132:THR:HA	7:e3:152:VAL:HG23	2.00	0.43
7:h3:27:ILE:HB	7:h3:224:ILE:HG22	2.01	0.43
7:h3:87:THR:HG22	7:h3:89:SER:H	1.82	0.43
7:i3:156:THR:OG1	7:i3:157:SER:N	2.51	0.43
7:y3:25:GLU:N	7:y3:25:GLU:OE1	2.52	0.43
7:93:44:TRP:CH2	7:93:218:HIS:HB2	2.54	0.43
7:G3:157:SER:O	7:G3:158:GLU:HG2	2.18	0.43
6:s6:48:ASN:HB3	6:s6:67:ARG:HH12	1.83	0.43
6:v6:1:MET:HE2	6:v6:3:PHE:CE1	2.54	0.43
6:v7:33:PHE:HZ	6:v7:111:ILE:HG21	1.82	0.43
8:AB:305:GLN:O	8:AB:309:ILE:HG12	2.18	0.43
8:AC:70:SER:HB3	8:AD:348:PRO:HB3	2.00	0.43
8:AD:217:ILE:HB	8:AD:309:ILE:HG22	2.01	0.43
8:AD:243:TRP:O	8:AD:245:VAL:HG23	2.17	0.43
8:AF:194:PHE:HZ	8:AF:362:LEU:HD21	1.84	0.43
8:AG:167:ASP:H	8:AH:28:ARG:HH12	1.66	0.43
8:AH:187:ARG:NH2	8:AH:363:CYS:HA	2.33	0.43
8:AH:317:ILE:H	8:AH:317:ILE:HD12	1.83	0.43
8:AI:400:GLU:HA	8:AI:403:GLU:HG3	2.01	0.43
8:AL:161:GLU:HB2	8:AL:179:LYS:HE2	2.01	0.43
9:AS:81:ILE:HG22	9:AS:148:ARG:HA	2.00	0.43
3:AO:97:SER:OG	3:AO:98:VAL:N	2.52	0.43
1:d:31:PRO:HB3	4:f6:23:CYS:HB3	2.00	0.43
2:a:19:ASP:OD1	2:a:19:ASP:N	2.51	0.43
2:a:134:ARG:HA	2:a:134:ARG:HD2	1.54	0.43
2:b:61:LYS:HE3	2:b:61:LYS:HB2	1.75	0.43
2:j:41:GLU:O	2:j:46:LEU:HB3	2.19	0.43
5:k1:397:GLY:HA2	5:k1:401:ASP:HB2	2.00	0.43
5:n1:304:PRO:HD2	5:n1:459:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o1:400:GLN:OE1	5:o1:400:GLN:N	2.52	0.43
6:t1:28:PHE:CG	6:t1:132:MET:HB3	2.53	0.43
5:k2:245:TYR:CE1	5:k2:292:ASN:HA	2.53	0.43
6:l2:89:LEU:HD23	6:l2:89:LEU:HA	1.91	0.43
5:n2:246:ASP:N	5:n2:246:ASP:OD1	2.52	0.43
5:n2:304:PRO:HD2	5:n2:459:GLY:O	2.19	0.43
6:p2:50:PHE:HB2	6:p2:112:SER:HB2	1.99	0.43
6:p2:58:ASP:HB3	6:p2:61:VAL:HG12	2.01	0.43
5:r2:291:VAL:HG21	6:t2:108:GLY:H	1.83	0.43
7:O3:116:GLU:OE1	7:O3:116:GLU:N	2.52	0.43
7:Q3:153:ASP:HA	7:Q3:159:LEU:HD12	2.00	0.43
7:T3:171:PRO:O	7:T3:175:ARG:NH2	2.50	0.43
7:V3:120:ASN:OD1	7:V3:120:ASN:N	2.51	0.43
7:Z3:21:SER:OG	7:Z3:22:CYS:N	2.51	0.43
7:a3:88:LEU:N	7:a3:121:GLY:O	2.50	0.43
7:e3:157:SER:O	7:e3:158:GLU:HG2	2.19	0.43
7:g3:90:ASP:N	7:g3:90:ASP:OD1	2.51	0.43
7:k3:55:ASN:ND2	7:k3:177:VAL:HG12	2.32	0.43
7:l3:209:ILE:HG13	7:l3:214:ASN:O	2.18	0.43
7:z3:167:PRO:HA	7:z3:191:SER:OG	2.19	0.43
7:33:38:MET:HG2	7:33:185:LYS:HG2	2.00	0.43
7:83:194:ALA:HB1	7:83:226:ILE:HG21	1.99	0.43
7:B3:27:ILE:HD13	7:B3:222:TYR:HB3	2.00	0.43
7:B3:80:VAL:HG23	7:B3:153:ASP:O	2.18	0.43
7:B3:209:ILE:HG13	7:B3:214:ASN:O	2.19	0.43
7:C3:135:ASP:OD1	7:C3:136:ARG:N	2.51	0.43
7:E3:174:ARG:CZ	7:E3:187:VAL:HG21	2.49	0.43
6:p5:2:ASN:ND2	6:q5:102:THR:OG1	2.51	0.43
5:r5:427:MET:HE3	5:r5:427:MET:HB3	1.83	0.43
6:t5:24:LYS:HE3	6:t5:26:ASP:HB3	2.01	0.43
5:k6:374:ASP:OD2	5:k6:374:ASP:N	2.51	0.43
5:g7:188:ILE:HD12	5:g7:188:ILE:HA	1.91	0.43
5:h7:208:THR:HG22	5:k7:179:VAL:HA	2.00	0.43
6:l7:56:ASP:O	6:l7:57:ALA:C	2.60	0.43
6:p7:11:SER:H	6:q7:34:THR:HG21	1.83	0.43
6:v7:76:THR:O	6:v7:76:THR:OG1	2.34	0.43
8:AD:290:LYS:HG3	8:AD:291:ASN:H	1.83	0.43
8:AE:190:LYS:HG2	8:AE:191:ASN:N	2.32	0.43
8:AF:89:MET:HE2	8:AF:364:GLY:HA3	1.99	0.43
8:AF:252:ASP:HB2	8:AF:255:GLN:CG	2.49	0.43
8:AI:100:ILE:HD11	8:AI:141:ALA:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AL:399:GLU:HG3	8:AL:403:GLU:OE1	2.19	0.43
9:AQ:128:THR:H	10:AZ:6:GLN:NE2	2.16	0.43
9:AS:28:ILE:HD11	9:AS:52:PHE:HA	2.01	0.43
2:n:13:ARG:HA	2:n:18:CYS:SG	2.59	0.43
2:n:47:SER:OG	2:n:48:PHE:N	2.51	0.43
2:n:53:THR:HG21	7:M3:10:ASN:HD22	1.83	0.43
2:p:27:ASP:N	2:p:27:ASP:OD1	2.50	0.43
2:p:71:ALA:HB1	2:p:132:THR:HG21	2.01	0.43
2:k:66:LYS:O	2:k:67:ILE:HD13	2.18	0.43
2:m:135:ARG:HG2	2:m:136:CYS:N	2.33	0.43
3:I:6:ARG:NH2	3:I:68:ASN:HD21	2.17	0.43
3:I:49:GLN:O	3:I:50:ASP:HB3	2.19	0.43
5:g1:277:HIS:CE1	5:g1:447:ALA:HB3	2.53	0.43
5:n1:175:PHE:CE1	5:h6:261:ALA:HB2	2.54	0.43
5:o1:334:PRO:HG2	5:o1:337:TYR:CD2	2.54	0.43
5:n2:462:LEU:HD12	5:n2:462:LEU:HA	1.94	0.43
5:o2:396:GLY:HA2	5:o2:403:PHE:CE1	2.54	0.43
6:v2:67:ARG:HD3	6:v2:84:LEU:HD13	2.00	0.43
7:M3:100:VAL:HA	7:M3:142:ASN:HD21	1.84	0.43
7:T3:157:SER:O	7:T3:158:GLU:HG2	2.19	0.43
7:Z3:133:GLY:H	7:Z3:152:VAL:HG23	1.84	0.43
7:a3:1:MET:HE2	7:a3:38:MET:HG3	2.00	0.43
7:e3:110:PRO:HG3	7:e3:115:VAL:HG13	2.01	0.43
7:f3:194:ALA:HB1	7:f3:226:ILE:HG12	2.01	0.43
7:k3:217:VAL:H	7:l3:34:VAL:HB	1.83	0.43
7:n3:167:PRO:HA	7:n3:191:SER:OG	2.19	0.43
7:y3:78:THR:HB	7:y3:84:PHE:HD2	1.83	0.43
7:83:101:GLU:OE1	7:83:101:GLU:N	2.51	0.43
7:83:172:ALA:O	7:83:175:ARG:NH1	2.51	0.43
7:A3:101:GLU:N	7:A3:101:GLU:OE1	2.52	0.43
7:B3:92:PHE:HB2	7:B3:141:ILE:HG21	2.00	0.43
7:C3:139:PHE:HE1	7:C3:148:TYR:HB2	1.84	0.43
7:G3:7:ASP:OD2	7:G3:9:ARG:NH1	2.52	0.43
5:g5:180:LEU:O	5:g5:182:LEU:HD23	2.19	0.43
5:r5:336:GLU:OE1	5:r5:336:GLU:N	2.52	0.43
5:r5:462:LEU:HD12	5:r5:463:GLN:H	1.84	0.43
1:a6:20:SER:OG	1:a6:21:PRO:HD2	2.18	0.43
5:g6:206:THR:HG22	5:h6:177:PRO:HB3	1.99	0.43
5:g6:346:GLN:HE22	5:r6:334:PRO:HA	1.82	0.43
5:n6:422:VAL:HG22	5:n6:450:GLY:C	2.44	0.43
5:o6:432:TYR:HB3	5:o6:442:LYS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s6:38:ILE:HG12	6:s6:125:ASN:O	2.19	0.43
6:s6:49:ILE:HD12	6:s6:49:ILE:H	1.83	0.43
6:t6:28:PHE:CD2	6:t6:132:MET:HG3	2.54	0.43
5:h7:202:VAL:HG11	5:h7:422:VAL:HG13	1.99	0.43
5:o7:297:TRP:HB2	5:o7:303:PHE:HE2	1.84	0.43
5:o7:377:ARG:HA	5:o7:377:ARG:CZ	2.48	0.43
8:AB:317:ILE:H	8:AB:317:ILE:HD12	1.84	0.43
8:AF:223:LEU:O	8:AF:227:LEU:HG	2.19	0.43
8:AH:369:VAL:O	8:AH:370:ILE:HD13	2.18	0.43
8:AI:129:PHE:HB2	8:AI:194:PHE:CD2	2.53	0.43
8:AK:204:ALA:O	8:AK:208:ASP:HB2	2.17	0.43
8:AK:294:SER:OG	8:AL:295:ASP:OD2	2.37	0.43
9:AS:128:THR:H	10:Aa:6:GLN:HE22	1.66	0.43
10:AV:79:TYR:O	10:AV:117:MET:HE2	2.18	0.43
2:a:141:PRO:HG2	2:a:197:TYR:OH	2.18	0.43
2:b:192:ASP:HA	2:b:195:PHE:HD1	1.83	0.43
2:b:196:ARG:HG2	8:AI:252:ASP:OD2	2.19	0.43
2:l:199:ARG:HG3	2:l:199:ARG:HH11	1.83	0.43
2:p:24:VAL:HG23	2:p:28:LEU:HD23	2.00	0.43
2:p:52:LYS:HE3	2:p:53:THR:H	1.84	0.43
2:j:147:GLY:HA3	2:j:194:TRP:NE1	2.34	0.43
2:k:167:ARG:HH11	2:k:180:GLY:N	2.17	0.43
2:k:198:ARG:HH11	8:AK:253:ASP:H	1.66	0.43
4:f1:12:PRO:HA	5:h1:305:VAL:HG13	2.01	0.43
5:h1:260:GLU:HB3	5:n2:175:PHE:HD1	1.84	0.43
5:n1:357:ASP:OD1	5:n1:361:ARG:N	2.49	0.43
6:p2:49:ILE:O	6:p2:67:ARG:HG3	2.18	0.43
5:r2:255:ARG:HE	5:r2:441:VAL:HB	1.84	0.43
6:v2:110:TRP:O	6:v2:111:ILE:HD13	2.19	0.43
7:K3:51:HIS:HB2	7:K3:209:ILE:HG23	2.00	0.43
7:L3:21:SER:OG	7:L3:22:CYS:N	2.50	0.43
7:P3:120:ASN:OD1	7:P3:120:ASN:N	2.51	0.43
7:Y3:101:GLU:OE1	7:Y3:101:GLU:N	2.52	0.43
7:e3:101:GLU:OE1	7:e3:101:GLU:N	2.52	0.43
7:t3:156:THR:HG23	7:t3:157:SER:N	2.33	0.43
7:43:138:TRP:CZ3	7:43:147:GLU:HB3	2.54	0.43
7:73:149:VAL:HG11	7:73:162:PRO:HG3	2.01	0.43
7:F3:181:THR:HG23	7:F3:183:VAL:HG12	2.01	0.43
5:n5:303:PHE:O	5:n5:304:PRO:C	2.62	0.43
5:o5:248:ARG:HA	5:o5:446:GLY:HA2	2.01	0.43
6:q5:20:SER:OG	6:q5:21:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s5:9:PHE:CE1	6:s5:133:LYS:HD2	2.54	0.43
5:g6:180:LEU:O	5:g6:182:LEU:HD23	2.19	0.43
5:n6:357:ASP:OD1	5:n6:361:ARG:N	2.50	0.43
5:o6:221:TYR:CD1	5:r6:293:GLU:HG2	2.52	0.43
5:r6:316:THR:HG22	5:r6:317:SER:N	2.30	0.43
6:u6:28:PHE:CD1	6:u6:134:GLY:HA3	2.53	0.43
5:g7:189:GLU:OE2	5:g7:278:ARG:NH2	2.52	0.43
5:g7:291:VAL:HG22	5:g7:292:ASN:ND2	2.33	0.43
5:n7:218:LEU:HD12	5:o7:445:PHE:CE1	2.54	0.43
5:o7:224:ASP:O	5:o7:226:LYS:N	2.52	0.43
6:p7:49:ILE:HG21	6:p7:103:VAL:HG21	2.01	0.43
6:p7:76:THR:O	6:p7:78:LEU:N	2.48	0.43
6:s7:30:GLN:OE1	6:s7:133:LYS:HG2	2.18	0.43
8:AA:201:ILE:HG22	8:AA:202:ASN:N	2.34	0.43
8:AB:252:ASP:HB2	8:AB:255:GLN:HE21	1.83	0.43
8:AD:63:LYS:O	8:AD:67:THR:HG23	2.19	0.43
8:AE:196:ILE:HD12	8:AE:196:ILE:H	1.84	0.43
8:AE:266:THR:OG1	8:AF:239:PRO:HB3	2.18	0.43
8:AE:267:LYS:O	8:AE:268:PRO:C	2.59	0.43
8:AF:219:VAL:HB	8:AF:220:PRO:HD3	2.01	0.43
8:AG:347:GLU:HB2	8:AG:348:PRO:HD3	2.01	0.43
9:AS:28:ILE:HG23	9:AS:30:GLY:N	2.33	0.43
9:AS:94:ARG:NE	9:AS:94:ARG:HA	2.34	0.43
10:AV:46:THR:HG23	10:AV:60:SER:OG	2.19	0.43
9:AX:91:TYR:CE1	9:AX:93:ASP:HB3	2.54	0.43
10:Ab:99:LEU:HD21	10:Ab:102:GLY:HA3	2.00	0.43
10:Ab:100:THR:C	10:Ab:101:GLU:HG3	2.44	0.43
1:f:10:CYS:HB2	6:l7:24:LYS:NZ	2.34	0.43
2:i:120:CYS:HB3	5:k7:440:CYS:HB3	1.83	0.43
2:i:178:ILE:HG13	2:k:178:ILE:HB	2.00	0.43
4:f1:17:GLN:HG3	5:h1:324:GLN:CD	2.44	0.43
5:g1:199:GLN:O	5:g1:200:ILE:HD13	2.19	0.43
5:h1:455:CYS:HG	5:h1:458:HIS:CE1	2.37	0.43
6:l1:34:THR:HG21	6:m1:10:PRO:HA	2.01	0.43
5:o1:216:GLY:HA3	5:o1:233:GLU:HG2	2.01	0.43
5:r1:224:ASP:O	5:r1:226:LYS:N	2.49	0.43
5:r1:406:GLY:H	5:r1:464:ILE:HB	1.83	0.43
1:b2:23:CYS:HB3	1:e2:26:CYS:HB3	1.46	0.43
1:e2:5:ASN:ND2	6:u2:4:ASN:HD22	2.17	0.43
5:n2:226:LYS:HG2	6:u2:71:VAL:HG23	2.00	0.43
6:q2:84:LEU:HD23	6:q2:84:LEU:HA	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s2:28:PHE:HD1	6:s2:134:GLY:O	2.00	0.43
7:K3:39:VAL:HG13	7:K3:184:LEU:HB3	2.01	0.43
7:L3:80:VAL:HG23	7:L3:153:ASP:O	2.19	0.43
7:U3:101:GLU:OE1	7:U3:101:GLU:N	2.52	0.43
7:k3:30:ARG:CZ	7:k3:229:CYS:HA	2.49	0.43
7:m3:35:ASN:OD1	7:m3:36:GLY:N	2.48	0.43
7:n3:118:GLY:N	7:n3:122:ALA:O	2.33	0.43
7:p3:25:GLU:OE1	7:p3:25:GLU:N	2.51	0.43
7:t3:154:PRO:O	7:t3:155:THR:HG22	2.19	0.43
7:53:133:GLY:H	7:53:152:VAL:HG13	1.83	0.43
7:53:157:SER:O	7:53:158:GLU:HG2	2.19	0.43
7:03:30:ARG:HD2	7:03:230:GLY:H	1.84	0.43
7:A3:172:ALA:O	7:A3:175:ARG:NH1	2.49	0.43
7:D3:9:ARG:NH2	7:E3:230:GLY:OXT	2.47	0.43
7:D3:44:TRP:CZ2	7:D3:218:HIS:HB2	2.53	0.43
7:G3:113:GLY:HA3	7:G3:125:TYR:CE2	2.53	0.43
5:g5:371:PHE:CE2	5:h5:369:LEU:HD11	2.53	0.43
5:g6:440:CYS:HB2	5:g6:442:LYS:NZ	2.33	0.43
5:h6:285:LEU:HD11	5:h6:451:GLY:HA3	2.00	0.43
6:m6:50:PHE:CE1	6:m6:67:ARG:HD2	2.54	0.43
5:n6:231:PHE:CZ	6:q6:75:ASP:HB2	2.54	0.43
5:o6:189:GLU:HB2	5:o6:279:ILE:CG2	2.48	0.43
6:q6:62:PRO:HD3	6:q6:110:TRP:CH2	2.54	0.43
5:r6:390:THR:HA	5:r6:395:LYS:HB3	2.01	0.43
6:s6:18:GLU:OE1	6:s6:18:GLU:N	2.52	0.43
6:s6:47:PHE:N	6:s6:87:VAL:O	2.51	0.43
6:v6:37:THR:HA	6:v6:126:VAL:HA	2.01	0.43
5:g7:248:ARG:HH12	5:g7:444:GLN:HG2	1.83	0.43
6:l7:24:LYS:HE2	6:l7:26:ASP:HB3	2.00	0.43
5:n7:342:SER:N	5:n7:379:ARG:O	2.51	0.43
5:r7:208:THR:HG22	5:r7:241:GLU:HB3	2.01	0.43
6:t7:91:GLU:HG3	6:t7:92:THR:H	1.84	0.43
8:AA:372:ASP:O	8:AA:375:SER:OG	2.28	0.43
8:AB:159:ASP:OD1	8:AB:159:ASP:N	2.52	0.43
8:AC:151:LYS:O	8:AC:164:GLN:N	2.49	0.43
8:AE:133:VAL:HA	8:AE:139:VAL:HA	2.01	0.43
8:AE:293:LEU:HD13	8:AE:296:ILE:HD11	2.00	0.43
8:AF:159:ASP:N	8:AF:159:ASP:OD1	2.52	0.43
8:AG:102:GLN:HE21	8:AH:80:GLN:HG3	1.83	0.43
8:AG:134:MET:HE2	8:AG:140:ASN:HD22	1.84	0.43
8:AI:108:MET:HE2	8:AI:112:GLN:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AJ:343:GLU:CD	8:AJ:379:LEU:HD11	2.43	0.43
8:AK:217:ILE:O	8:AK:221:VAL:HG22	2.19	0.43
3:AM:98:VAL:HG12	3:AM:110:ILE:HD12	2.00	0.43
2:a:47:SER:O	2:a:48:PHE:C	2.61	0.42
2:a:69:LEU:HB3	2:a:99:ASN:HB2	2.01	0.42
2:a:132:THR:HG22	2:a:133:GLY:N	2.33	0.42
2:b:148:ILE:HG13	2:b:194:TRP:HZ2	1.83	0.42
2:o:46:LEU:HB3	2:o:134:ARG:HH21	1.84	0.42
2:o:47:SER:O	2:o:134:ARG:NH2	2.52	0.42
2:k:66:LYS:HB2	8:AJ:271:ASP:OD2	2.19	0.42
5:h1:252:CYS:SG	6:m2:74:CYS:HB3	2.59	0.42
5:h1:334:PRO:HG2	5:h1:337:TYR:CD2	2.54	0.42
5:o1:204:ARG:HA	5:o1:424:LYS:HE2	2.01	0.42
5:r1:223:CYS:HB2	6:l2:105:CYS:HB2	1.43	0.42
5:h2:260:GLU:HB3	5:n7:175:PHE:HD1	1.84	0.42
5:k2:190:CYS:HA	5:k2:384:ASN:ND2	2.34	0.42
5:o2:206:THR:HA	5:o2:243:LYS:HA	2.01	0.42
5:o2:229:ALA:HB3	5:r2:250:VAL:HG22	2.00	0.42
5:o2:241:GLU:OE2	6:u2:133:LYS:NZ	2.50	0.42
5:o2:248:ARG:HA	5:o2:446:GLY:HA2	2.01	0.42
5:o2:329:PHE:O	5:o2:332:SER:OG	2.37	0.42
7:K3:38:MET:SD	7:K3:185:LYS:HE2	2.59	0.42
7:T3:209:ILE:HG13	7:T3:214:ASN:O	2.19	0.42
7:a3:96:GLU:CD	7:a3:97:GLY:H	2.27	0.42
7:a3:154:PRO:HG2	7:a3:156:THR:HG22	2.01	0.42
7:c3:137:PHE:CE1	7:c3:148:TYR:HB3	2.54	0.42
7:f3:158:GLU:O	7:f3:159:LEU:HD23	2.18	0.42
7:g3:80:VAL:HG23	7:g3:153:ASP:O	2.19	0.42
7:i3:206:GLN:OE1	7:i3:207:VAL:N	2.52	0.42
7:n3:174:ARG:CZ	7:n3:187:VAL:HG21	2.49	0.42
7:w3:78:THR:HB	7:w3:84:PHE:HD2	1.84	0.42
7:33:24:CYS:HB2	7:33:223:ASP:CG	2.44	0.42
5:h6:334:PRO:HG2	5:h6:337:TYR:CD2	2.54	0.42
5:k6:211:LYS:O	5:k6:237:ILE:HD12	2.19	0.42
5:o6:241:GLU:H	6:u6:135:ALA:HB1	1.84	0.42
6:p6:33:PHE:CD1	6:p6:130:VAL:HG12	2.54	0.42
6:v6:80:SER:C	6:v6:82:ASP:H	2.26	0.42
1:b7:17:ARG:H	5:g7:395:LYS:HE3	1.84	0.42
5:g7:199:GLN:O	5:g7:200:ILE:HD13	2.19	0.42
5:h7:460:ARG:O	5:h7:461:ILE:HD13	2.19	0.42
5:o7:190:CYS:O	5:o7:191:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o7:364:PHE:CE1	5:r7:369:LEU:HG	2.54	0.42
5:r7:294:PRO:HB3	5:r7:451:GLY:H	1.84	0.42
8:AB:96:ALA:O	8:AB:100:ILE:HG12	2.19	0.42
8:AC:130:LYS:CG	8:AC:145:LEU:HD21	2.49	0.42
8:AG:373:ARG:O	8:AG:379:LEU:HD11	2.18	0.42
8:AH:240:ASN:ND2	8:AI:234:SER:OG	2.52	0.42
8:AL:50:ARG:HD2	8:AL:50:ARG:N	2.33	0.42
8:AL:182:LYS:HD2	8:AL:186:GLY:O	2.19	0.42
9:AQ:12:THR:HB	9:AQ:14:PRO:HD2	2.01	0.42
3:AP:66:THR:HA	3:AP:108:MET:O	2.19	0.42
3:AO:91:ARG:HG3	3:AO:91:ARG:HH11	1.83	0.42
2:b:32:TYR:HB3	2:b:152:ILE:CD1	2.49	0.42
2:b:84:GLY:HA3	2:b:126:LEU:HD12	2.00	0.42
2:b:183:ASN:ND2	2:k:186:VAL:O	2.52	0.42
2:n:25:THR:OG1	2:n:26:ASP:N	2.52	0.42
2:n:58:ILE:HG23	2:n:126:LEU:HG	2.01	0.42
2:p:190:ALA:HB1	2:p:194:TRP:CH2	2.54	0.42
2:i:187:ILE:HD11	2:k:163:VAL:HB	2.01	0.42
3:H:12:VAL:CG2	3:H:33:ILE:HB	2.48	0.42
5:k1:337:TYR:CG	5:k1:458:HIS:HD2	2.37	0.42
5:g2:327:ARG:O	5:g2:331:THR:HG22	2.18	0.42
5:n2:231:PHE:CZ	6:q2:75:ASP:HB2	2.54	0.42
6:s2:127:GLN:NE2	6:t2:13:ILE:HB	2.33	0.42
6:v2:20:SER:OG	6:v2:21:PHE:N	2.51	0.42
6:v2:36:LYS:O	6:v2:127:GLN:N	2.42	0.42
7:K3:78:THR:HB	7:K3:84:PHE:HD2	1.84	0.42
7:P3:205:ARG:HB3	7:Q3:107:LEU:HD22	2.01	0.42
7:Q3:35:ASN:OD1	7:Q3:36:GLY:N	2.45	0.42
7:S3:183:VAL:HB	7:S3:185:LYS:HZ3	1.84	0.42
7:W3:133:GLY:H	7:W3:152:VAL:HG23	1.84	0.42
7:e3:209:ILE:HG12	7:e3:210:ASP:O	2.19	0.42
7:f3:92:PHE:CE2	7:f3:94:ASN:HB3	2.54	0.42
7:p3:21:SER:OG	7:p3:22:CYS:N	2.52	0.42
7:w3:55:ASN:C	7:w3:56:LYS:HD3	2.43	0.42
7:w3:88:LEU:HD23	7:w3:102:TYR:CD1	2.55	0.42
7:03:138:TRP:CZ3	7:03:147:GLU:HB3	2.54	0.42
7:A3:157:SER:O	7:A3:158:GLU:HG2	2.19	0.42
7:E3:72:SER:OG	7:E3:73:ASN:N	2.51	0.42
5:h5:202:VAL:HG11	5:h5:422:VAL:HG13	2.00	0.42
6:l5:34:THR:HG21	6:m5:10:PRO:HA	2.00	0.42
5:o5:204:ARG:HA	5:o5:424:LYS:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s5:131:THR:HG23	6:t5:5:VAL:HG13	1.99	0.42
5:n6:217:GLN:OE1	5:n6:233:GLU:HB2	2.19	0.42
5:o6:208:THR:OG1	5:o6:240:LEU:O	2.31	0.42
5:o6:300:GLU:HG3	5:o6:301:ASN:N	2.34	0.42
5:o6:304:PRO:HD2	5:o6:459:GLY:O	2.19	0.42
5:h7:409:VAL:HG23	5:h7:410:ALA:N	2.35	0.42
6:l7:77:VAL:C	6:l7:79:LEU:HD12	2.43	0.42
5:n7:196:LEU:HD22	5:n7:341:ARG:HD2	2.00	0.42
6:p7:78:LEU:HD22	6:p7:78:LEU:HA	1.77	0.42
6:v7:62:PRO:HB3	6:v7:110:TRP:CD1	2.54	0.42
8:AA:28:ARG:HG3	8:AA:29:ARG:H	1.84	0.42
8:AB:129:PHE:HB2	8:AB:194:PHE:CD2	2.54	0.42
8:AC:336:GLU:HG2	8:AC:337:SER:N	2.34	0.42
8:AD:52:MET:HE1	8:AD:61:LEU:HB2	2.00	0.42
8:AD:120:SER:HB2	8:AD:147:ILE:HD12	2.01	0.42
8:AD:131:VAL:HB	8:AD:139:VAL:HG23	2.00	0.42
8:AE:26:PHE:HB3	8:AE:30:PHE:HD1	1.85	0.42
8:AI:50:ARG:HH22	8:AI:221:VAL:HG21	1.85	0.42
8:AI:57:ALA:O	8:AI:61:LEU:HG	2.19	0.42
8:AI:251:LEU:HD23	8:AI:251:LEU:HA	1.69	0.42
8:AK:155:ASP:HB3	8:AK:161:GLU:OE2	2.19	0.42
10:AU:47:ASN:HB2	10:AZ:105:VAL:HA	2.01	0.42
9:AS:77:ARG:CD	9:AS:150:ARG:HD3	2.49	0.42
10:Aa:39:THR:HG22	10:AY:109:GLU:HG3	2.00	0.42
10:AY:79:TYR:O	10:AY:117:MET:HE2	2.20	0.42
2:a:95:ARG:HH22	2:n:59:ARG:HG2	1.84	0.42
2:b:37:PHE:CE1	2:b:148:ILE:HD13	2.54	0.42
2:l:182:ASN:HA	2:l:187:ILE:HG12	2.01	0.42
2:p:7:LEU:HD21	2:p:145:ILE:HG23	2.01	0.42
2:h:12:ILE:HD13	2:h:29:LEU:HD21	2.00	0.42
2:h:79:VAL:HG23	2:h:130:TYR:HB3	2.00	0.42
2:h:154:TRP:O	2:h:158:ASN:HB2	2.19	0.42
2:i:52:LYS:HA	2:i:52:LYS:NZ	2.33	0.42
2:i:140:VAL:HG13	2:i:141:PRO:HD2	2.00	0.42
2:i:168:ASN:N	2:k:163:VAL:CG1	2.77	0.42
3:I:25:LEU:HD23	3:I:25:LEU:H	1.84	0.42
1:d1:34:PRO:HG3	5:r1:315:GLY:HA3	2.02	0.42
5:k1:269:MET:HA	5:k1:272:ALA:HB3	2.01	0.42
5:o1:432:TYR:HB3	5:o1:442:LYS:O	2.18	0.42
1:b2:24:PHE:CD2	5:g2:322:LEU:HD11	2.54	0.42
5:n2:361:ARG:HB3	5:o2:361:ARG:HH21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o2:189:GLU:HB2	5:o2:279:ILE:CG2	2.49	0.42
6:s2:36:LYS:HD2	6:t2:12:PHE:CE1	2.53	0.42
6:v2:9:PHE:CD1	6:v2:133:LYS:HA	2.54	0.42
6:v2:69:PRO:HD2	6:v2:107:ASN:ND2	2.34	0.42
7:P3:153:ASP:OD2	7:P3:159:LEU:N	2.52	0.42
7:S3:6:VAL:HG21	7:S3:218:HIS:CE1	2.55	0.42
7:S3:88:LEU:N	7:S3:121:GLY:O	2.52	0.42
7:T3:71:VAL:HG13	7:T3:144:ASN:HB2	2.01	0.42
7:X3:178:ASP:OD2	7:X3:181:THR:HG22	2.20	0.42
7:Y3:156:THR:HG23	7:Y3:157:SER:N	2.32	0.42
7:e3:55:ASN:ND2	7:e3:177:VAL:HG12	2.35	0.42
7:e3:156:THR:OG1	7:e3:157:SER:N	2.52	0.42
7:j3:80:VAL:HG23	7:j3:153:ASP:O	2.19	0.42
7:j3:95:PRO:HG2	7:j3:96:GLU:OE1	2.19	0.42
7:j3:138:TRP:CZ3	7:j3:147:GLU:HB3	2.54	0.42
7:q3:154:PRO:O	7:q3:155:THR:HG22	2.20	0.42
7:q3:206:GLN:OE1	7:q3:207:VAL:N	2.52	0.42
7:s3:78:THR:HG21	7:s3:84:PHE:HB2	2.00	0.42
7:w3:44:TRP:CD2	7:w3:218:HIS:HD2	2.37	0.42
7:z3:48:LEU:HD22	7:13:1:MET:HE3	2.01	0.42
7:43:174:ARG:NE	7:43:187:VAL:HG21	2.34	0.42
7:83:132:THR:HA	7:83:152:VAL:HG23	2.02	0.42
1:d5:34:PRO:HG3	5:r5:315:GLY:HA3	2.02	0.42
5:k5:306:PHE:CE2	5:k5:460:ARG:HD2	2.54	0.42
6:l5:62:PRO:HD3	6:l5:110:TRP:CE2	2.55	0.42
6:q5:62:PRO:HD3	6:q5:110:TRP:CH2	2.54	0.42
6:s5:30:GLN:OE1	6:s5:133:LYS:HG2	2.19	0.42
6:s5:123:ALA:O	6:s5:126:VAL:HG22	2.19	0.42
5:n6:223:CYS:SG	5:n6:224:ASP:N	2.89	0.42
5:r6:379:ARG:HA	5:r6:379:ARG:HD2	1.84	0.42
6:s6:48:ASN:CG	6:s6:67:ARG:HH12	2.27	0.42
1:e7:27:ARG:HD3	5:r7:309:LEU:HG	2.01	0.42
5:k7:374:ASP:OD1	5:k7:376:VAL:HG12	2.18	0.42
6:m7:73:PHE:HZ	6:m7:104:PRO:HB3	1.84	0.42
5:o7:329:PHE:CD2	5:o7:462:LEU:HD13	2.54	0.42
6:s7:18:GLU:N	6:s7:18:GLU:OE1	2.52	0.42
8:AA:304:ASP:OD2	8:AL:299:LYS:HD3	2.18	0.42
8:AC:66:LEU:HD21	8:AD:348:PRO:HG2	2.02	0.42
8:AC:264:GLU:O	8:AC:267:LYS:HG3	2.18	0.42
8:AD:52:MET:SD	8:AE:201:ILE:HD11	2.59	0.42
8:AD:59:ARG:NH2	8:AD:320:LEU:HD21	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AD:130:LYS:O	8:AD:142:ILE:HA	2.20	0.42
8:AD:137:GLY:HA3	8:AD:187:ARG:NH2	2.31	0.42
8:AD:178:THR:C	8:AD:179:LYS:HD2	2.44	0.42
8:AD:228:MET:HE3	8:AD:231:ALA:HB3	2.01	0.42
8:AE:99:GLN:HE22	8:AF:83:GLN:HB3	1.85	0.42
8:AE:304:ASP:OD2	8:AE:304:ASP:N	2.51	0.42
8:AF:208:ASP:OD1	8:AF:209:VAL:N	2.47	0.42
8:AF:264:GLU:O	8:AF:267:LYS:HG3	2.19	0.42
8:AH:255:GLN:O	8:AH:259:VAL:HG23	2.19	0.42
8:AJ:69:GLN:HE22	8:AK:352:THR:HG23	1.84	0.42
8:AJ:168:GLU:OE2	8:AJ:168:GLU:N	2.51	0.42
10:Aa:84:GLN:NE2	10:Aa:101:GLU:HB2	2.35	0.42
9:AX:31:ARG:NH1	9:AX:51:PRO:HD2	2.33	0.42
1:c:21:PRO:HB3	5:h5:351:TYR:CE2	2.55	0.42
1:c:27:ARG:HD2	5:h5:311:VAL:HA	2.00	0.42
1:g:9:LEU:HD13	1:g:9:LEU:HA	1.80	0.42
2:a:91:GLU:HG3	2:a:91:GLU:O	2.19	0.42
2:l:27:ASP:O	2:l:31:LEU:HG	2.20	0.42
2:l:195:PHE:O	2:l:199:ARG:NH1	2.53	0.42
2:n:167:ARG:NH1	2:n:171:ASN:O	2.52	0.42
2:h:94:PRO:HA	2:h:101:LEU:HD11	2.02	0.42
3:I:67:MET:HE3	3:I:67:MET:HB2	1.88	0.42
5:g1:248:ARG:HH12	5:g1:444:GLN:HG2	1.84	0.42
5:k1:306:PHE:CE2	5:k1:460:ARG:HD2	2.55	0.42
6:u1:5:VAL:HG11	6:v1:133:LYS:HG3	2.01	0.42
5:g2:356:VAL:HG21	5:r2:324:GLN:HE21	1.84	0.42
5:k2:303:PHE:CD2	5:k2:456:CYS:HB2	2.55	0.42
5:n2:343:VAL:HG12	5:n2:386:LEU:HD11	2.00	0.42
7:X3:92:PHE:HB2	7:X3:141:ILE:HG21	2.02	0.42
7:c3:88:LEU:N	7:c3:121:GLY:O	2.53	0.42
7:r3:25:GLU:OE1	7:r3:25:GLU:N	2.50	0.42
7:v3:29:ALA:HB1	7:v3:190:VAL:HG21	2.01	0.42
7:w3:208:ALA:HB3	7:w3:216:PHE:HB2	2.01	0.42
7:x3:156:THR:OG1	7:x3:157:SER:N	2.52	0.42
7:13:157:SER:O	7:13:158:GLU:HG2	2.19	0.42
7:73:135:ASP:OD1	7:73:136:ARG:N	2.52	0.42
7:F3:138:TRP:CZ3	7:F3:147:GLU:HB3	2.54	0.42
5:g5:295:LYS:HG2	5:g5:300:GLU:HG2	2.01	0.42
5:k5:303:PHE:CD2	5:k5:456:CYS:HB2	2.55	0.42
5:k5:374:ASP:OD1	5:k5:374:ASP:N	2.52	0.42
6:l5:2:ASN:HB3	6:m5:106:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s5:50:PHE:CE1	6:s5:67:ARG:HG2	2.55	0.42
6:t5:43:ALA:H	6:t5:122:ASN:ND2	2.16	0.42
5:k6:286:MET:HE3	5:k6:286:MET:HB3	1.81	0.42
5:k6:344:MET:HE3	5:k6:380:ILE:HG21	2.02	0.42
5:n6:294:PRO:HG3	5:n6:450:GLY:HA2	2.02	0.42
6:s6:37:THR:HG22	6:s6:38:ILE:H	1.84	0.42
6:s6:47:PHE:CZ	6:s6:126:VAL:HG11	2.53	0.42
6:s6:100:ALA:HB1	6:t6:6:GLY:HA3	2.01	0.42
6:u6:23:VAL:HG21	6:u6:130:VAL:HG11	2.02	0.42
1:a7:20:SER:OG	1:a7:21:PRO:HD2	2.20	0.42
5:k7:308:THR:HG22	5:k7:464:ILE:HA	2.00	0.42
5:o7:248:ARG:HA	5:o7:446:GLY:HA2	2.01	0.42
6:p7:46:THR:HA	6:p7:88:THR:HA	2.00	0.42
5:r7:210:MET:HA	5:r7:239:HIS:HA	2.01	0.42
6:s7:47:PHE:HZ	6:s7:126:VAL:HG11	1.84	0.42
6:s7:64:PRO:HG2	6:s7:66:ILE:HD11	2.02	0.42
8:AA:281:GLY:HA3	8:AB:249:ARG:NH1	2.34	0.42
8:AB:37:LYS:HA	8:AB:37:LYS:HD3	1.80	0.42
8:AB:315:ILE:HD11	8:AB:319:LEU:HD23	2.02	0.42
8:AG:336:GLU:HG2	8:AG:337:SER:N	2.34	0.42
8:AI:28:ARG:HH11	8:AI:156:ARG:HH21	1.66	0.42
8:AI:242:LYS:HD3	8:AI:243:TRP:HD1	1.83	0.42
8:AI:317:ILE:H	8:AI:317:ILE:HD12	1.84	0.42
8:AJ:151:LYS:O	8:AJ:164:GLN:N	2.46	0.42
8:AK:93:GLN:NE2	8:AK:136:ASP:O	2.32	0.42
8:AK:121:TRP:HD1	8:AK:350:TYR:CE1	2.37	0.42
8:AK:183:ASN:N	8:AK:187:ARG:O	2.43	0.42
9:AX:34:PRO:HA	9:AX:55:VAL:HG23	2.02	0.42
9:AX:93:ASP:O	9:AX:94:ARG:C	2.62	0.42
2:a:60:LEU:O	2:a:61:LYS:HD2	2.20	0.42
2:b:122:VAL:HG22	2:b:123:GLU:OE1	2.19	0.42
2:b:137:GLU:C	2:b:139:SER:H	2.28	0.42
2:p:60:LEU:O	2:p:61:LYS:HD3	2.20	0.42
2:h:24:VAL:HG23	2:h:24:VAL:O	2.20	0.42
2:i:26:ASP:OD1	2:i:27:ASP:N	2.53	0.42
2:k:69:LEU:O	2:k:99:ASN:ND2	2.52	0.42
5:g1:246:ASP:OD1	5:g1:246:ASP:N	2.50	0.42
5:h1:246:ASP:HB3	5:h1:448:GLU:HG2	2.01	0.42
5:k1:370:THR:HG22	5:k1:372:THR:HG23	2.00	0.42
6:q1:27:GLY:O	6:q1:136:THR:OG1	2.36	0.42
5:r1:312:ASP:OD1	5:r1:313:VAL:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:v2:62:PRO:HB3	6:v2:110:TRP:CD1	2.54	0.42
7:J3:120:ASN:OD1	7:J3:120:ASN:N	2.50	0.42
7:K3:75:PHE:CE1	7:K3:162:PRO:HD2	2.44	0.42
7:O3:88:LEU:HD23	7:O3:102:TYR:HD1	1.84	0.42
7:O3:156:THR:OG1	7:O3:157:SER:N	2.52	0.42
7:Q3:138:TRP:CE3	7:Q3:147:GLU:HB3	2.55	0.42
7:W3:23:CYS:O	7:W3:24:CYS:C	2.63	0.42
7:a3:75:PHE:HD1	7:a3:149:VAL:HG13	1.85	0.42
7:c3:75:PHE:HB2	7:c3:164:PHE:CZ	2.54	0.42
7:h3:77:ARG:NH1	7:h3:159:LEU:O	2.52	0.42
7:l3:62:ASP:O	7:l3:201:ARG:N	2.45	0.42
7:l3:194:ALA:HB1	7:l3:226:ILE:HG12	2.02	0.42
7:n3:156:THR:HG23	7:n3:157:SER:N	2.33	0.42
7:o3:59:PHE:HD1	7:o3:204:VAL:HG12	1.85	0.42
7:t3:132:THR:HA	7:t3:152:VAL:HG23	2.02	0.42
7:u3:209:ILE:HG12	7:u3:210:ASP:O	2.19	0.42
7:43:217:VAL:H	7:53:34:VAL:HB	1.84	0.42
5:g5:197:TYR:OH	5:g5:297:TRP:NE1	2.47	0.42
5:h5:303:PHE:CD2	5:h5:456:CYS:HB2	2.54	0.42
5:h5:460:ARG:O	5:h5:461:ILE:HD13	2.20	0.42
5:o5:304:PRO:HD2	5:o5:459:GLY:O	2.19	0.42
5:r5:237:ILE:HD13	5:r5:237:ILE:HA	1.92	0.42
5:k6:428:PHE:HA	8:AJ:168:GLU:CG	2.47	0.42
6:q6:9:PHE:HD1	6:q6:133:LYS:HA	1.84	0.42
6:q6:77:VAL:HG23	6:q6:78:LEU:H	1.84	0.42
6:u6:94:THR:O	6:u6:97:SER:OG	2.34	0.42
6:l7:94:THR:O	6:l7:97:SER:OG	2.35	0.42
5:o7:208:THR:O	5:r7:180:LEU:HG	2.19	0.42
5:r7:406:GLY:C	5:r7:463:GLN:HE21	2.26	0.42
6:v7:80:SER:C	6:v7:82:ASP:H	2.28	0.42
8:AC:69:GLN:HE22	8:AD:352:THR:HG23	1.83	0.42
8:AC:335:ASP:N	8:AC:335:ASP:OD1	2.53	0.42
8:AD:155:ASP:HB3	8:AD:161:GLU:CD	2.44	0.42
8:AE:151:LYS:HB2	8:AE:164:GLN:HB3	2.01	0.42
8:AE:297:HIS:CE1	8:AE:299:LYS:HB2	2.52	0.42
8:AH:257:LYS:O	8:AH:261:GLU:HG2	2.20	0.42
8:AH:283:ASP:OD2	8:AI:246:THR:HG21	2.20	0.42
8:AI:384:ALA:HA	8:AJ:390:TYR:HE1	1.84	0.42
8:AK:293:LEU:HG	8:AK:293:LEU:O	2.20	0.42
8:AL:263:ILE:HD13	8:AL:277:ILE:HG21	2.02	0.42
10:AU:61:ASN:OD1	10:Ab:52:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AN:1:MET:SD	3:AN:1:MET:N	2.79	0.42
3:AN:100:ASN:ND2	3:AN:103:GLU:OE1	2.48	0.42
1:d:18:LEU:HD21	5:g6:306:PHE:CG	2.55	0.42
2:a:77:ARG:O	2:a:79:VAL:N	2.52	0.42
2:b:182:ASN:ND2	2:o:163:VAL:HG11	2.34	0.42
2:l:19:ASP:OD1	2:l:19:ASP:N	2.53	0.42
2:n:25:THR:HG22	2:n:28:LEU:HD23	2.01	0.42
2:o:9:LEU:HA	2:o:12:ILE:HD12	2.01	0.42
2:q:57:PRO:HG3	2:q:127:MET:HG3	2.01	0.42
2:i:144:ILE:HA	2:i:194:TRP:NE1	2.35	0.42
2:j:43:TYR:CD1	8:AG:252:ASP:HA	2.54	0.42
2:j:100:VAL:O	2:j:101:LEU:HD22	2.19	0.42
3:I:58:THR:O	9:AW:43:SER:OG	2.37	0.42
5:n1:231:PHE:HB3	5:o1:250:VAL:O	2.19	0.42
5:h2:313:VAL:HG23	5:h2:313:VAL:O	2.20	0.42
6:p2:15:TRP:HB3	6:p2:128:ILE:HB	2.01	0.42
5:r2:238:ARG:NH2	5:r2:240:LEU:HD21	2.35	0.42
6:v2:80:SER:C	6:v2:82:ASP:H	2.27	0.42
7:L3:212:ASP:OD2	7:L3:212:ASP:N	2.42	0.42
7:M3:55:ASN:O	7:M3:56:LYS:HD2	2.19	0.42
7:M3:156:THR:OG1	7:M3:157:SER:N	2.53	0.42
7:N3:157:SER:O	7:N3:158:GLU:HG2	2.20	0.42
7:P3:157:SER:OG	7:P3:158:GLU:N	2.52	0.42
7:Q3:77:ARG:HD3	7:Q3:158:GLU:OE2	2.20	0.42
7:Q3:154:PRO:O	7:Q3:155:THR:HG22	2.20	0.42
7:T3:38:MET:SD	7:T3:185:LYS:HE2	2.59	0.42
7:U3:113:GLY:HA3	7:U3:125:TYR:CE2	2.55	0.42
7:V3:88:LEU:N	7:V3:121:GLY:O	2.47	0.42
7:W3:167:PRO:HA	7:W3:191:SER:OG	2.19	0.42
7:f3:53:LEU:HB3	7:f3:177:VAL:HG21	2.02	0.42
7:h3:167:PRO:HA	7:h3:191:SER:OG	2.19	0.42
7:j3:88:LEU:N	7:j3:121:GLY:O	2.46	0.42
7:k3:55:ASN:O	7:k3:56:LYS:HD3	2.19	0.42
7:k3:101:GLU:OE1	7:k3:101:GLU:N	2.52	0.42
7:l3:108:ASN:HB3	7:l3:138:TRP:CD1	2.55	0.42
7:n3:140:SER:O	7:n3:140:SER:OG	2.36	0.42
7:q3:167:PRO:HA	7:q3:191:SER:OG	2.20	0.42
7:t3:206:GLN:OE1	7:t3:207:VAL:N	2.52	0.42
7:z3:156:THR:HG23	7:z3:157:SER:N	2.33	0.42
7:53:29:ALA:HB1	7:53:190:VAL:HG21	2.02	0.42
7:63:208:ALA:HB3	7:63:216:PHE:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D3:78:THR:HG21	7:D3:84:PHE:HB2	2.02	0.42
7:E3:171:PRO:HG2	7:E3:187:VAL:HB	2.02	0.42
7:G3:135:ASP:OD1	7:G3:136:ARG:N	2.53	0.42
5:h5:261:ALA:HB2	5:n6:175:PHE:CE1	2.54	0.42
5:k5:378:GLU:O	5:k5:380:ILE:HG13	2.20	0.42
6:m5:78:LEU:HD12	6:m5:80:SER:N	2.34	0.42
5:g6:251:PHE:CD1	5:g6:269:MET:HG2	2.54	0.42
5:h6:370:THR:HG22	5:h6:372:THR:HG23	2.01	0.42
5:o6:400:GLN:OE1	5:o6:400:GLN:N	2.53	0.42
5:h7:404:ALA:O	5:h7:407:SER:OG	2.32	0.42
8:AA:178:THR:OG1	8:AA:179:LYS:N	2.52	0.42
8:AB:83:GLN:HE21	8:AB:365:ALA:HB1	1.84	0.42
8:AC:305:GLN:OE1	8:AC:305:GLN:HA	2.19	0.42
8:AD:339:LYS:HE2	8:AD:339:LYS:HB3	1.68	0.42
8:AE:70:SER:HB3	8:AF:348:PRO:CB	2.48	0.42
8:AF:108:MET:HG3	8:AG:205:MET:SD	2.59	0.42
8:AF:385:ASP:O	8:AF:389:THR:HG22	2.20	0.42
8:AH:243:TRP:O	8:AH:245:VAL:HG23	2.20	0.42
8:AI:195:MET:HA	8:AI:195:MET:HE3	2.02	0.42
8:AJ:126:ARG:NE	8:AJ:197:VAL:HG23	2.35	0.42
8:AL:129:PHE:HB2	8:AL:194:PHE:CD2	2.55	0.42
8:AL:132:SER:HA	8:AL:191:ASN:HD22	1.83	0.42
8:AL:317:ILE:H	8:AL:317:ILE:HD12	1.85	0.42
8:AL:351:LEU:HB3	8:AL:371:PHE:CZ	2.55	0.42
10:AU:128:LEU:HD21	10:AZ:75:PRO:HA	2.01	0.42
3:AP:20:ASP:N	3:AP:24:ARG:O	2.50	0.42
9:AW:25:PHE:HB2	9:AW:28:ILE:HD13	2.01	0.42
10:AY:64:MET:SD	10:AY:66:LEU:HB2	2.60	0.42
1:d:24:PHE:CE1	5:h6:358:ALA:HB2	2.55	0.42
2:a:185:ALA:HB2	2:j:192:ASP:OD2	2.19	0.42
2:p:157:ASN:HB2	3:I:4:ALA:HB1	2.02	0.42
2:i:134:ARG:O	2:i:135:ARG:HB2	2.20	0.42
2:j:48:PHE:O	2:j:49:THR:OG1	2.37	0.42
3:H:91:ARG:HH11	3:H:91:ARG:HG2	1.85	0.42
3:I:65:ILE:HD11	3:I:93:PHE:CD2	2.55	0.42
5:k1:304:PRO:HD2	5:k1:459:GLY:O	2.20	0.42
5:g2:371:PHE:CE2	5:h2:369:LEU:HD11	2.54	0.42
6:u2:68:VAL:HG13	6:u2:107:ASN:ND2	2.33	0.42
7:J3:138:TRP:CE3	7:J3:147:GLU:HB3	2.54	0.42
7:K3:50:GLY:HA2	7:K3:211:CYS:SG	2.59	0.42
7:K3:157:SER:O	7:K3:158:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:R3:168:VAL:HG11	7:R3:224:ILE:CD1	2.49	0.42
7:Y3:139:PHE:HD2	7:Y3:141:ILE:HG13	1.84	0.42
7:i3:83:VAL:HG23	7:i3:126:THR:HG22	2.01	0.42
7:j3:27:ILE:HB	7:j3:224:ILE:HG22	2.02	0.42
7:13:53:LEU:HD12	7:13:206:GLN:CD	2.45	0.42
7:93:58:THR:HG22	7:03:107:LEU:HD23	2.02	0.42
7:B3:154:PRO:O	7:B3:155:THR:HG22	2.20	0.42
7:C3:217:VAL:H	7:D3:34:VAL:HB	1.84	0.42
1:a5:25:ILE:HG21	4:f5:26:VAL:HG11	2.01	0.42
5:g5:327:ARG:O	5:g5:331:THR:HG22	2.19	0.42
5:k5:267:SER:HB2	8:AA:30:PHE:CE1	2.55	0.42
5:n5:295:LYS:HZ2	5:n5:300:GLU:HA	1.85	0.42
5:n5:306:PHE:CE1	5:n5:460:ARG:HD2	2.51	0.42
5:o5:211:LYS:HG3	5:o5:211:LYS:O	2.20	0.42
5:o5:283:GLN:HA	5:o5:286:MET:HE2	2.02	0.42
1:a6:26:CYS:SG	1:a6:28:GLY:N	2.93	0.42
5:k6:210:MET:HB2	5:n6:183:GLU:OE1	2.20	0.42
5:k6:306:PHE:CE2	5:k6:460:ARG:HD2	2.54	0.42
8:AA:68:VAL:HG11	8:AA:118:ALA:HB2	2.01	0.42
8:AA:247:ALA:O	8:AA:285:LYS:NZ	2.53	0.42
8:AB:267:LYS:HD3	8:AB:267:LYS:HA	1.76	0.42
8:AC:37:LYS:HE3	8:AC:152:GLN:NE2	2.34	0.42
8:AC:130:LYS:HB3	8:AC:130:LYS:HE3	1.76	0.42
8:AE:170:GLY:H	8:AF:28:ARG:NH2	2.17	0.42
8:AE:270:GLY:O	8:AE:271:ASP:CB	2.66	0.42
8:AE:319:LEU:HD11	8:AE:338:ARG:HG2	2.01	0.42
8:AI:276:ILE:HG22	8:AJ:243:TRP:HB2	2.02	0.42
8:AJ:350:TYR:C	8:AJ:353:PRO:HD2	2.45	0.42
8:AL:59:ARG:O	8:AL:63:LYS:HG3	2.20	0.42
8:AL:362:LEU:HD23	8:AL:362:LEU:HA	1.75	0.42
3:AP:56:LYS:H	3:AP:56:LYS:HD2	1.84	0.42
10:Ab:87:VAL:CG2	10:Ab:99:LEU:HB3	2.49	0.42
2:b:6:LEU:HD23	2:b:6:LEU:H	1.84	0.42
2:h:178:ILE:HG22	2:j:178:ILE:HB	2.02	0.42
3:H:6:ARG:CZ	3:H:68:ASN:HD21	2.32	0.42
3:I:77:VAL:HG13	3:AO:48:SER:N	2.35	0.42
1:a2:4:LEU:HD11	6:l2:87:VAL:HG23	2.01	0.42
6:s2:50:PHE:HE2	6:s2:114:ALA:HB3	1.85	0.42
7:N3:75:PHE:CE1	7:N3:162:PRO:HD2	2.43	0.42
7:N3:78:THR:HB	7:N3:84:PHE:HD2	1.84	0.42
7:O3:33:GLU:OE1	7:O3:35:ASN:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S3:100:VAL:HA	7:S3:142:ASN:HD21	1.85	0.42
7:S3:116:GLU:HB2	7:S3:124:THR:HG22	2.02	0.42
7:W3:27:ILE:HB	7:W3:224:ILE:HG22	2.02	0.42
7:Y3:80:VAL:HG12	7:Y3:155:THR:HB	2.01	0.42
7:c3:167:PRO:HA	7:c3:191:SER:OG	2.19	0.42
7:o3:55:ASN:ND2	7:o3:177:VAL:HG22	2.35	0.42
7:o3:71:VAL:HG13	7:o3:144:ASN:HB2	2.01	0.42
7:o3:206:GLN:OE1	7:o3:207:VAL:N	2.52	0.42
7:p3:46:ALA:HB3	7:p3:47:PRO:HD3	2.02	0.42
7:p3:80:VAL:HG12	7:p3:155:THR:HB	2.02	0.42
7:13:88:LEU:N	7:13:121:GLY:O	2.52	0.42
7:23:157:SER:O	7:23:158:GLU:HG2	2.19	0.42
7:43:154:PRO:O	7:43:155:THR:HG22	2.18	0.42
7:53:101:GLU:OE1	7:53:101:GLU:N	2.53	0.42
7:53:139:PHE:CE1	7:53:148:TYR:HB2	2.55	0.42
7:63:123:PHE:HE2	7:63:125:TYR:HB2	1.85	0.42
7:73:112:ASN:O	7:73:128:GLY:N	2.37	0.42
7:83:4:PHE:CZ	7:83:27:ILE:HG12	2.55	0.42
7:93:154:PRO:O	7:93:155:THR:HG22	2.18	0.42
7:03:149:VAL:HG11	7:03:162:PRO:HG3	2.01	0.42
5:h5:254:ASN:HB3	5:h5:257:ASN:HB3	2.01	0.42
5:o5:398:THR:OG1	5:o5:399:GLY:N	2.50	0.42
6:s5:36:LYS:HG3	6:t5:12:PHE:HE1	1.85	0.42
6:v5:46:THR:HG23	6:v5:116:ALA:HB3	2.01	0.42
5:h6:460:ARG:O	5:h6:461:ILE:HD13	2.20	0.42
5:o6:266:LEU:O	5:o6:270:ILE:HG12	2.20	0.42
6:p6:133:LYS:NZ	6:q6:3:PHE:HB2	2.33	0.42
6:q6:24:LYS:HG2	6:q6:26:ASP:H	1.85	0.42
5:r6:309:LEU:HD23	5:r6:309:LEU:H	1.84	0.42
5:r6:424:LYS:HD3	5:r6:425:ARG:HB2	2.02	0.42
5:g7:248:ARG:NH1	5:g7:444:GLN:HG2	2.35	0.42
5:n7:243:LYS:HE3	5:n7:245:TYR:HE1	1.84	0.42
6:p7:9:PHE:CD1	6:p7:133:LYS:HA	2.55	0.42
8:AA:28:ARG:HG3	8:AA:29:ARG:N	2.35	0.42
8:AB:59:ARG:O	8:AB:63:LYS:HG2	2.20	0.42
8:AG:243:TRP:CZ2	8:AH:289:MET:HG3	2.55	0.42
8:AG:376:ILE:HB	8:AG:379:LEU:HG	2.02	0.42
8:AJ:208:ASP:OD1	8:AJ:209:VAL:N	2.48	0.42
8:AK:165:TYR:CD1	8:AL:25:ILE:HD11	2.54	0.42
8:AL:68:VAL:O	8:AL:71:VAL:HG12	2.19	0.42
10:Ab:64:MET:HE1	10:Ab:66:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:69:LEU:HD23	2:a:72:THR:HA	2.02	0.42
2:n:72:THR:HG22	2:n:134:ARG:NH2	2.28	0.42
2:o:52:LYS:HD3	2:o:52:LYS:HA	1.68	0.42
2:q:168:ASN:N	2:m:163:VAL:CG2	2.82	0.42
2:k:166:VAL:O	2:k:181:THR:HG23	2.19	0.42
5:h1:409:VAL:HG23	5:h1:410:ALA:N	2.34	0.42
6:p1:13:ILE:HG12	6:q1:13:ILE:HG12	2.01	0.42
5:r1:377:ARG:HD2	5:r1:377:ARG:O	2.20	0.42
5:r1:387:PRO:HD2	5:r1:408:PHE:CD1	2.55	0.42
6:t1:25:VAL:HG12	6:t1:110:TRP:HA	2.01	0.42
5:g2:297:TRP:CD1	5:g2:297:TRP:H	2.38	0.42
5:h2:182:LEU:HD12	5:h2:183:GLU:H	1.85	0.42
6:v2:48:ASN:HB3	6:v2:67:ARG:NH1	2.32	0.42
7:P3:67:THR:O	7:P3:67:THR:OG1	2.38	0.42
7:V3:156:THR:OG1	7:V3:157:SER:N	2.53	0.42
7:W3:209:ILE:HD11	7:W3:213:GLY:HA2	2.02	0.42
7:b3:23:CYS:HB3	7:c3:229:CYS:HB3	1.57	0.42
7:c3:174:ARG:NE	7:c3:187:VAL:HG21	2.35	0.42
7:f3:217:VAL:H	7:g3:34:VAL:HB	1.85	0.42
7:g3:101:GLU:N	7:g3:101:GLU:OE1	2.53	0.42
7:j3:88:LEU:HG	7:j3:88:LEU:O	2.20	0.42
7:j3:174:ARG:CZ	7:j3:187:VAL:HG21	2.49	0.42
7:k3:167:PRO:HA	7:k3:191:SER:OG	2.20	0.42
7:l3:24:CYS:HB3	7:l3:221:CYS:C	2.45	0.42
7:m3:53:LEU:HB2	7:m3:177:VAL:HG21	2.02	0.42
7:n3:154:PRO:O	7:n3:155:THR:HG22	2.20	0.42
7:o3:78:THR:HG23	7:o3:152:VAL:HG12	2.02	0.42
7:s3:78:THR:HB	7:s3:84:PHE:HD2	1.84	0.42
7:s3:194:ALA:HB1	7:s3:226:ILE:HG12	2.00	0.42
7:y3:156:THR:OG1	7:y3:157:SER:N	2.53	0.42
7:z3:154:PRO:O	7:z3:155:THR:HG22	2.20	0.42
7:63:154:PRO:O	7:63:155:THR:HG22	2.20	0.42
7:G3:132:THR:HG21	7:G3:154:PRO:HB3	2.01	0.42
5:g5:193:LEU:HD11	5:g5:343:VAL:HG11	2.02	0.42
5:h5:269:MET:HE2	5:h5:269:MET:HB2	1.93	0.42
6:m5:37:THR:HA	6:m5:126:VAL:HA	2.01	0.42
5:n5:394:THR:OG1	5:n5:395:LYS:N	2.53	0.42
5:o5:210:MET:SD	5:o5:239:HIS:ND1	2.91	0.42
5:o5:279:ILE:O	5:o5:283:GLN:HG2	2.19	0.42
5:k6:266:LEU:O	5:k6:270:ILE:HG12	2.20	0.42
6:u6:67:ARG:HD3	6:u6:84:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a7:2:VAL:O	1:a7:3:LYS:HD2	2.20	0.42
1:b7:23:CYS:HB3	1:e7:26:CYS:HB3	1.63	0.42
6:p7:27:GLY:O	6:p7:136:THR:OG1	2.37	0.42
6:s7:47:PHE:HB2	6:s7:87:VAL:HG13	2.01	0.42
8:AA:28:ARG:HD2	8:AL:169:ALA:HB3	2.02	0.42
8:AB:132:SER:OG	8:AB:140:ASN:HB3	2.20	0.42
8:AB:204:ALA:O	8:AB:208:ASP:HB2	2.20	0.42
8:AF:66:LEU:HD21	8:AG:344:ASP:O	2.20	0.42
8:AF:83:GLN:HE21	8:AF:365:ALA:HB1	1.82	0.42
8:AF:216:ALA:HB3	8:AF:312:ASN:HD21	1.85	0.42
8:AG:402:ARG:HH21	8:AG:407:TRP:HB3	1.85	0.42
8:AH:59:ARG:O	8:AH:63:LYS:HG2	2.20	0.42
8:AI:163:PHE:CD2	8:AI:193:ALA:HB3	2.55	0.42
8:AI:267:LYS:HD2	8:AJ:237:GLY:C	2.45	0.42
8:AJ:196:ILE:HD12	8:AJ:196:ILE:H	1.84	0.42
8:AL:187:ARG:NH2	8:AL:364:GLY:H	2.18	0.42
8:AL:335:ASP:OD1	8:AL:338:ARG:NH1	2.53	0.42
1:c:29:VAL:HG22	4:f5:20:CYS:HB2	2.02	0.42
1:d:20:SER:OG	5:g6:324:GLN:NE2	2.53	0.42
2:l:50:PRO:HB3	2:l:135:ARG:HG3	2.01	0.42
2:n:82:TYR:HA	2:n:86:LEU:HD23	2.02	0.42
2:n:82:TYR:CE2	2:n:127:MET:HE3	2.55	0.42
2:q:37:PHE:HD1	2:q:48:PHE:CE2	2.37	0.42
2:h:59:ARG:NH1	8:AH:271:ASP:OD1	2.53	0.42
1:d1:15:ALA:HA	5:n1:305:VAL:HG13	2.02	0.42
5:h1:398:THR:CG2	5:h1:402:ALA:HB3	2.49	0.42
5:k1:346:GLN:HA	5:k1:382:ILE:HD11	2.01	0.42
5:n1:332:SER:O	5:n1:460:ARG:NH1	2.53	0.42
5:o1:202:VAL:HG11	5:r1:178:GLN:HE21	1.84	0.42
5:o1:341:ARG:HH12	5:o1:377:ARG:HH21	1.68	0.42
6:p1:69:PRO:HD2	6:p1:107:ASN:HD21	1.85	0.42
6:p1:81:GLU:HG2	6:p1:82:ASP:N	2.32	0.42
5:r1:437:SER:O	5:r1:439:TRP:HD1	2.02	0.42
6:s1:13:ILE:HG23	6:t1:13:ILE:HD11	2.02	0.42
6:t1:52:HIS:HB2	6:t1:110:TRP:CD1	2.55	0.42
5:o2:291:VAL:HG11	6:u2:108:GLY:N	2.34	0.42
5:r2:264:ASP:OD1	5:r2:266:LEU:HG	2.20	0.42
6:v2:50:PHE:HE2	6:v2:114:ALA:HB3	1.85	0.42
7:M3:1:MET:HE2	7:M3:185:LYS:NZ	2.30	0.42
7:T3:74:ALA:HB2	7:T3:91:LEU:HD21	2.02	0.42
7:T3:181:THR:HG23	7:T3:183:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U3:65:SER:OG	7:U3:199:VAL:N	2.52	0.42
7:d3:75:PHE:CE1	7:d3:162:PRO:HD2	2.55	0.42
7:f3:137:PHE:CE1	7:f3:148:TYR:HB3	2.55	0.42
7:h3:2:TYR:OH	7:h3:28:SER:OG	2.38	0.42
7:i3:174:ARG:NE	7:i3:187:VAL:HG21	2.35	0.42
7:j3:21:SER:HB2	7:x3:49:ARG:HB3	2.02	0.42
7:q3:149:VAL:HG11	7:q3:162:PRO:HG3	2.02	0.42
7:r3:71:VAL:HG13	7:r3:144:ASN:HB2	2.01	0.42
7:t3:167:PRO:HA	7:t3:191:SER:OG	2.20	0.42
7:w3:154:PRO:O	7:w3:155:THR:HG22	2.20	0.42
7:53:90:ASP:OD1	7:53:90:ASP:N	2.52	0.42
7:63:9:ARG:NH2	7:73:230:GLY:HA2	2.34	0.42
7:63:171:PRO:HD2	7:63:187:VAL:HG13	2.01	0.42
7:73:174:ARG:NE	7:73:187:VAL:HG21	2.35	0.42
7:A3:29:ALA:HB1	7:A3:190:VAL:HG21	2.02	0.42
7:A3:103:GLU:HB3	7:A3:140:SER:OG	2.20	0.42
7:B3:35:ASN:OD1	7:B3:36:GLY:N	2.44	0.42
7:C3:56:LYS:HB3	7:C3:207:VAL:HG21	2.02	0.42
7:C3:136:ARG:HG2	7:C3:149:VAL:HG22	2.01	0.42
7:D3:76:GLY:N	7:D3:149:VAL:O	2.52	0.42
7:F3:156:THR:OG1	7:F3:157:SER:N	2.53	0.42
7:G3:79:LYS:HE3	7:G3:155:THR:HA	2.01	0.42
1:b5:27:ARG:NH1	5:g5:325:ASP:OD2	2.38	0.42
6:p5:13:ILE:HD13	6:q5:127:GLN:HB3	2.02	0.42
5:r5:188:ILE:HG13	5:r5:188:ILE:O	2.19	0.42
6:v5:27:GLY:O	6:v5:136:THR:OG1	2.35	0.42
5:g6:178:GLN:NE2	5:r6:202:VAL:HG23	2.35	0.42
5:h6:208:THR:HA	5:h6:241:GLU:HA	2.02	0.42
5:h6:246:ASP:HB3	5:h6:448:GLU:HG2	2.02	0.42
5:h6:407:SER:OG	5:h6:408:PHE:N	2.52	0.42
5:r6:188:ILE:O	5:r6:188:ILE:HG13	2.20	0.42
6:s6:41:LEU:HD23	6:s6:91:GLU:HA	2.01	0.42
4:f7:18:PRO:HB3	5:k7:351:TYR:CZ	2.55	0.42
5:h7:194:LEU:HD21	5:h7:281:ARG:HD3	2.02	0.42
6:m7:80:SER:OG	6:m7:82:ASP:OD2	2.38	0.42
5:n7:294:PRO:HG3	5:n7:450:GLY:HA2	2.01	0.42
8:AB:71:VAL:HG11	8:AB:351:LEU:HD11	2.02	0.42
8:AC:130:LYS:NZ	8:AC:191:ASN:HB3	2.35	0.42
8:AG:126:ARG:HG2	8:AG:195:MET:HE3	2.02	0.42
8:AG:217:ILE:C	8:AG:220:PRO:HD2	2.45	0.42
8:AH:200:SER:OG	8:AH:201:ILE:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:297:HIS:CE1	8:AH:299:LYS:HB3	2.50	0.42
8:AI:339:LYS:O	8:AI:343:GLU:HG2	2.20	0.42
8:AJ:129:PHE:HB2	8:AJ:194:PHE:CD2	2.55	0.42
8:AJ:273:GLY:C	8:AJ:275:GLU:H	2.28	0.42
8:AK:372:ASP:OD2	8:AK:375:SER:HB3	2.19	0.42
8:AL:163:PHE:CE2	8:AL:193:ALA:HB3	2.55	0.42
8:AL:396:ILE:CG2	8:AL:401:LYS:HG3	2.50	0.42
3:AN:26:LEU:HA	9:AS:98:GLU:O	2.20	0.42
10:Aa:70:ARG:NH1	10:Aa:76:LEU:HB2	2.35	0.42
1:e:30:ALA:HB2	4:f1:21:PHE:HA	2.02	0.41
1:g:27:ARG:HD2	5:h7:311:VAL:HA	2.02	0.41
2:l:199:ARG:HB3	8:AA:255:GLN:CD	2.45	0.41
2:p:15:HIS:HB2	2:i:28:LEU:HD11	2.01	0.41
2:p:129:THR:HG21	7:R3:43:ALA:HA	2.02	0.41
2:p:167:ARG:HH12	2:i:178:ILE:HD12	1.85	0.41
2:q:58:ILE:HG22	2:q:59:ARG:N	2.31	0.41
2:q:77:ARG:HE	7:O3:3:PHE:HB3	1.84	0.41
2:i:117:CYS:SG	5:k7:252:CYS:N	2.93	0.41
2:k:50:PRO:HA	2:k:138:ASN:HD21	1.85	0.41
1:b1:17:ARG:H	5:g1:395:LYS:HD3	1.85	0.41
5:h1:261:ALA:HB2	5:n2:175:PHE:CE1	2.55	0.41
5:h1:269:MET:HE3	5:h1:269:MET:HA	2.02	0.41
5:k1:253:PHE:O	5:k1:440:CYS:HA	2.20	0.41
6:u1:71:VAL:HG12	6:u1:73:PHE:H	1.85	0.41
1:b2:7:ARG:HD3	5:r2:238:ARG:HD2	2.02	0.41
5:g2:246:ASP:OD1	5:g2:246:ASP:N	2.51	0.41
6:m2:47:PHE:HB2	6:m2:87:VAL:HG22	2.01	0.41
7:J3:194:ALA:HB1	7:J3:226:ILE:HG12	2.02	0.41
7:b3:217:VAL:H	7:c3:34:VAL:HB	1.85	0.41
7:g3:174:ARG:CZ	7:g3:187:VAL:HG21	2.49	0.41
7:i3:21:SER:OG	7:i3:22:CYS:N	2.50	0.41
7:l3:27:ILE:O	7:l3:224:ILE:HD12	2.20	0.41
7:l3:137:PHE:CE1	7:l3:148:TYR:HB3	2.55	0.41
7:m3:29:ALA:HB1	7:m3:190:VAL:HG21	2.02	0.41
7:p3:78:THR:HB	7:p3:84:PHE:HD2	1.85	0.41
7:r3:88:LEU:HD12	7:r3:91:LEU:HD12	2.02	0.41
7:u3:103:GLU:HB3	7:u3:140:SER:OG	2.20	0.41
7:u3:209:ILE:HD11	7:u3:213:GLY:HA2	2.02	0.41
7:x3:178:ASP:OD2	7:x3:181:THR:HG22	2.20	0.41
7:23:194:ALA:HB1	7:23:226:ILE:HG21	2.01	0.41
7:53:4:PHE:CZ	7:53:27:ILE:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B3:27:ILE:CD1	7:B3:222:TYR:HB3	2.49	0.41
7:F3:207:VAL:HG12	7:F3:217:VAL:HG22	2.02	0.41
5:g5:398:THR:OG1	5:g5:399:GLY:N	2.52	0.41
5:k5:284:ALA:O	5:k5:288:GLY:N	2.53	0.41
5:r5:289:LYS:O	5:r5:293:GLU:HB3	2.19	0.41
5:k6:178:GLN:O	5:k6:180:LEU:HD12	2.20	0.41
6:p6:50:PHE:O	6:p6:111:ILE:HD12	2.20	0.41
6:q6:9:PHE:HA	6:q6:132:MET:O	2.20	0.41
6:q6:31:PHE:HB3	6:q6:132:MET:HG3	2.02	0.41
6:q6:106:MET:SD	6:q6:106:MET:N	2.88	0.41
6:s6:28:PHE:HD1	6:s6:134:GLY:O	2.03	0.41
6:t6:9:PHE:CE1	6:t6:133:LYS:HG3	2.55	0.41
6:t6:51:TYR:HD2	6:t6:108:GLY:HA3	1.85	0.41
5:h7:221:TYR:HE2	5:k7:284:ALA:HB2	1.84	0.41
5:h7:388:ASP:OD1	5:h7:388:ASP:N	2.51	0.41
5:k7:391:GLU:OE1	5:k7:395:LYS:HG3	2.20	0.41
5:n7:306:PHE:CE1	5:n7:460:ARG:HD2	2.49	0.41
6:p7:51:TYR:HD1	6:p7:68:VAL:HG22	1.85	0.41
6:u7:42:THR:H	6:u7:122:ASN:ND2	2.18	0.41
8:AC:136:ASP:OD1	8:AC:138:SER:OG	2.21	0.41
8:AC:165:TYR:CD1	8:AD:25:ILE:HD11	2.55	0.41
8:AC:232:ILE:HD13	8:AD:223:LEU:HD13	2.01	0.41
8:AF:121:TRP:CE2	8:AF:198:LYS:HE2	2.54	0.41
8:AG:165:TYR:CD1	8:AH:25:ILE:HD11	2.55	0.41
8:AH:216:ALA:HB3	8:AH:312:ASN:HD21	1.86	0.41
8:AH:374:ASP:HA	8:AH:383:ARG:NH1	2.35	0.41
8:AJ:251:LEU:HD21	8:AJ:282:THR:CB	2.50	0.41
8:AJ:351:LEU:HB3	8:AJ:371:PHE:CZ	2.54	0.41
8:AK:53:GLU:HG3	8:AL:215:GLN:OE1	2.20	0.41
8:AK:126:ARG:HB2	8:AK:147:ILE:HD13	2.02	0.41
3:AN:118:SER:OG	3:AN:120:ASP:OD1	2.31	0.41
9:AW:49:LYS:HG2	9:AW:51:PRO:HD2	2.02	0.41
10:Ab:70:ARG:NH1	10:Ab:76:LEU:HB2	2.35	0.41
1:e:29:VAL:HA	4:f1:20:CYS:HB2	2.02	0.41
1:f:20:SER:OG	1:f:21:PRO:HD2	2.19	0.41
2:i:62:GLY:HA3	2:i:66:LYS:NZ	2.36	0.41
2:i:145:ILE:O	2:i:149:LEU:HD23	2.20	0.41
2:i:153:ALA:O	2:k:161:ASP:HB3	2.20	0.41
5:o1:332:SER:HB2	5:r1:393:ASN:ND2	2.36	0.41
6:u1:129:THR:HB	6:v1:13:ILE:HD11	2.03	0.41
5:h2:322:LEU:HD23	5:h2:325:ASP:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k2:217:GLN:CD	5:k2:217:GLN:H	2.28	0.41
5:n2:357:ASP:OD1	5:n2:361:ARG:N	2.46	0.41
6:q2:81:GLU:OE1	6:q2:81:GLU:N	2.51	0.41
5:r2:227:CYS:SG	5:n7:440:CYS:HB2	2.60	0.41
5:r2:291:VAL:HG12	5:r2:292:ASN:ND2	2.35	0.41
6:s2:135:ALA:O	6:s2:136:THR:OG1	2.37	0.41
7:P3:27:ILE:CD1	7:P3:222:TYR:HB3	2.49	0.41
7:T3:208:ALA:HB3	7:T3:216:PHE:HB2	2.02	0.41
7:U3:116:GLU:N	7:U3:116:GLU:OE1	2.52	0.41
7:Y3:132:THR:HA	7:Y3:152:VAL:HG23	2.02	0.41
7:a3:80:VAL:HG23	7:a3:153:ASP:O	2.20	0.41
7:d3:23:CYS:HB2	7:e3:229:CYS:HB3	1.78	0.41
7:d3:38:MET:HE3	7:d3:183:VAL:HG11	2.02	0.41
7:d3:101:GLU:N	7:d3:101:GLU:OE1	2.52	0.41
7:e3:71:VAL:HG11	7:e3:141:ILE:HB	2.02	0.41
7:g3:75:PHE:HD1	7:g3:149:VAL:HG13	1.85	0.41
7:l3:94:ASN:OD1	7:l3:94:ASN:N	2.52	0.41
7:p3:90:ASP:OD1	7:p3:90:ASP:N	2.52	0.41
7:r3:70:LYS:H	7:r3:70:LYS:HG2	1.68	0.41
7:r3:77:ARG:NH2	7:r3:158:GLU:OE1	2.53	0.41
7:t3:35:ASN:OD1	7:t3:36:GLY:N	2.46	0.41
7:23:53:LEU:HB2	7:23:177:VAL:HG21	2.02	0.41
7:43:21:SER:OG	7:43:22:CYS:N	2.53	0.41
7:73:57:THR:HG21	7:73:184:LEU:HD11	2.01	0.41
7:F3:78:THR:HB	7:F3:84:PHE:HD2	1.84	0.41
5:g5:194:LEU:HD11	5:g5:281:ARG:NH1	2.35	0.41
5:h5:221:TYR:HE1	5:k5:247:TYR:HB2	1.85	0.41
5:k5:427:MET:HG2	5:k5:447:ALA:HB2	2.02	0.41
6:t5:28:PHE:CG	6:t5:132:MET:HB3	2.55	0.41
5:g6:246:ASP:OD1	5:g6:246:ASP:N	2.51	0.41
5:k6:194:LEU:O	5:k6:199:GLN:NE2	2.52	0.41
5:n6:240:LEU:HA	6:p6:135:ALA:HB3	2.02	0.41
5:o6:204:ARG:HA	5:o6:424:LYS:HE3	2.02	0.41
6:p7:13:ILE:HD13	6:q7:127:GLN:HB3	2.02	0.41
6:v7:103:VAL:HA	6:v7:104:PRO:HD3	1.94	0.41
8:AB:251:LEU:HA	8:AB:251:LEU:HD23	1.66	0.41
8:AC:66:LEU:HG	8:AD:348:PRO:O	2.21	0.41
8:AE:75:VAL:HG12	8:AE:98:GLN:NE2	2.34	0.41
8:AE:392:LYS:HA	8:AE:392:LYS:HD2	1.86	0.41
8:AF:152:GLN:HB3	8:AF:163:PHE:CD1	2.55	0.41
8:AF:201:ILE:O	8:AF:202:ASN:ND2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:272:ASN:ND2	8:AG:275:GLU:OE2	2.53	0.41
8:AH:380:ARG:HG3	8:AH:383:ARG:HH12	1.86	0.41
8:AI:115:TYR:HD1	8:AJ:199:PRO:HB2	1.85	0.41
8:AL:163:PHE:HE2	8:AL:176:SER:HA	1.85	0.41
8:AL:257:LYS:N	8:AL:257:LYS:HD2	2.36	0.41
10:AU:30:HIS:NE2	10:AU:79:TYR:OH	2.41	0.41
3:AN:81:VAL:HB	3:AN:93:PHE:HB2	2.01	0.41
3:AN:91:ARG:HG3	3:AN:117:THR:HB	2.03	0.41
10:Aa:86:ASP:OD1	10:Aa:101:GLU:N	2.45	0.41
3:H:25:LEU:HD23	3:H:25:LEU:H	1.84	0.41
5:h1:455:CYS:C	5:h1:457:GLU:N	2.78	0.41
5:k1:195:ASP:OD1	5:k1:195:ASP:N	2.53	0.41
5:o1:205:SER:C	5:r1:178:GLN:HE22	2.29	0.41
5:r1:246:ASP:HA	5:r1:448:GLU:HB3	2.02	0.41
6:u1:49:ILE:HD11	6:u1:87:VAL:HG23	2.02	0.41
6:v1:62:PRO:HB3	6:v1:110:TRP:CD1	2.55	0.41
5:g2:180:LEU:H	5:g2:180:LEU:HD23	1.85	0.41
5:k2:337:TYR:CG	5:k2:458:HIS:HD2	2.38	0.41
5:n2:218:LEU:HD12	5:o2:445:PHE:HZ	1.85	0.41
5:o2:210:MET:SD	5:o2:239:HIS:ND1	2.89	0.41
5:r2:253:PHE:HZ	5:r2:269:MET:HG3	1.85	0.41
7:J3:65:SER:HG	7:J3:199:VAL:H	1.67	0.41
7:M3:138:TRP:CZ3	7:M3:147:GLU:HB3	2.56	0.41
7:N3:77:ARG:HD3	7:N3:158:GLU:OE2	2.20	0.41
7:O3:59:PHE:CD1	7:O3:204:VAL:HG12	2.55	0.41
7:R3:108:ASN:HB3	7:R3:138:TRP:CD1	2.56	0.41
7:V3:27:ILE:HD13	7:V3:222:TYR:HB3	2.01	0.41
7:W3:139:PHE:HD2	7:W3:141:ILE:HG13	1.85	0.41
7:e3:167:PRO:HA	7:e3:191:SER:OG	2.19	0.41
7:i3:194:ALA:HB1	7:i3:226:ILE:HG12	2.02	0.41
7:j3:21:SER:OG	7:j3:22:CYS:N	2.48	0.41
7:k3:30:ARG:O	7:k3:33:GLU:HG2	2.20	0.41
7:n3:2:TYR:HB2	7:n3:37:VAL:HG22	2.02	0.41
7:w3:167:PRO:HA	7:w3:191:SER:OG	2.20	0.41
7:z3:199:VAL:HG12	7:z3:225:SER:HA	2.03	0.41
7:43:56:LYS:HB3	7:43:207:VAL:HG21	2.03	0.41
7:A3:58:THR:OG1	7:A3:205:ARG:HB3	2.20	0.41
1:e5:5:ASN:HD22	6:u5:4:ASN:HD22	1.68	0.41
5:h5:375:LEU:HD12	5:h5:380:ILE:HB	2.01	0.41
5:h5:423:GLU:HG2	8:AL:29:ARG:HB3	2.03	0.41
5:k5:306:PHE:O	5:k5:463:GLN:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l5:47:PHE:CZ	6:l5:126:VAL:HG21	2.55	0.41
5:o5:190:CYS:O	5:o5:191:ALA:HB2	2.20	0.41
6:q5:70:GLU:HB3	6:q5:85:ALA:HB2	2.02	0.41
6:u5:58:ASP:HB3	6:u5:61:VAL:CG1	2.50	0.41
5:g6:329:PHE:O	5:g6:332:SER:OG	2.36	0.41
5:g6:397:GLY:N	5:g6:402:ALA:HB1	2.28	0.41
6:m6:133:LYS:HG2	6:m6:134:GLY:H	1.85	0.41
5:g7:246:ASP:N	5:g7:246:ASP:OD1	2.51	0.41
6:m7:68:VAL:HG23	6:m7:107:ASN:HD21	1.85	0.41
6:p7:133:LYS:HD2	6:q7:5:VAL:HB	2.02	0.41
5:r7:246:ASP:HB3	5:r7:448:GLU:HG3	2.02	0.41
6:t7:31:PHE:HE2	6:t7:103:VAL:HG12	1.84	0.41
8:AA:66:LEU:HD22	8:AB:348:PRO:O	2.20	0.41
8:AA:132:SER:HA	8:AA:191:ASN:ND2	2.35	0.41
8:AC:18:PRO:O	8:AC:20:ALA:N	2.53	0.41
8:AC:92:SER:HA	8:AC:95:LYS:HG2	2.01	0.41
8:AD:266:THR:HA	8:AD:273:GLY:HA2	2.02	0.41
8:AD:381:LYS:HA	8:AD:381:LYS:HD3	1.84	0.41
8:AE:95:LYS:HE3	8:AE:95:LYS:HB2	1.73	0.41
8:AE:167:ASP:OD1	8:AE:167:ASP:N	2.46	0.41
8:AH:384:ALA:HB1	8:AI:389:THR:HG21	2.03	0.41
8:AI:68:VAL:HG11	8:AI:118:ALA:HB2	2.01	0.41
8:AI:98:GLN:O	8:AI:101:LEU:HG	2.20	0.41
9:AQ:29:GLU:HB2	9:AQ:31:ARG:NH1	2.35	0.41
9:AR:49:LYS:HE2	9:AR:49:LYS:HB2	1.81	0.41
1:d:30:ALA:HB3	1:d:31:PRO:HD3	2.03	0.41
1:f:22:PRO:O	1:f:23:CYS:C	2.63	0.41
2:b:142:ALA:O	2:b:146:ILE:HG12	2.20	0.41
2:b:195:PHE:CZ	8:AJ:249:ARG:HB3	2.55	0.41
2:o:43:TYR:HA	8:AI:252:ASP:HA	2.01	0.41
2:o:166:VAL:HA	2:h:177:LEU:HB3	2.02	0.41
2:o:170:LEU:H	2:o:170:LEU:HD12	1.85	0.41
6:l1:53:GLU:N	6:l1:53:GLU:OE2	2.53	0.41
5:n1:327:ARG:HH21	5:o1:371:PHE:HB2	1.85	0.41
6:q1:110:TRP:O	6:q1:111:ILE:HD13	2.20	0.41
4:f2:24:ARG:HH22	5:k2:325:ASP:CG	2.26	0.41
5:h2:212:ILE:HA	5:h2:237:ILE:HA	2.01	0.41
5:k2:194:LEU:HD23	5:k2:194:LEU:HA	1.83	0.41
5:k2:196:LEU:HD21	5:k2:381:ARG:HD2	2.01	0.41
5:o2:250:VAL:HG12	5:o2:444:GLN:HA	2.02	0.41
6:p2:9:PHE:CD1	6:p2:133:LYS:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:p2:103:VAL:HG22	6:p2:105:CYS:H	1.85	0.41
6:u2:71:VAL:HG22	6:u2:73:PHE:H	1.85	0.41
7:J3:38:MET:HE3	7:J3:185:LYS:HE2	2.03	0.41
7:L3:154:PRO:O	7:L3:156:THR:HG23	2.21	0.41
7:M3:77:ARG:NE	7:M3:158:GLU:OE1	2.53	0.41
7:P3:30:ARG:CZ	7:P3:229:CYS:HA	2.51	0.41
7:Q3:44:TRP:CD2	7:Q3:218:HIS:HD2	2.38	0.41
7:S3:194:ALA:HB1	7:S3:226:ILE:HG12	2.01	0.41
7:T3:94:ASN:OD1	7:T3:94:ASN:N	2.54	0.41
7:a3:78:THR:HG23	7:a3:152:VAL:HG12	2.01	0.41
7:r3:208:ALA:HB3	7:r3:216:PHE:HB2	2.02	0.41
7:y3:27:ILE:O	7:y3:224:ILE:HD12	2.20	0.41
7:z3:172:ALA:O	7:z3:175:ARG:NH1	2.53	0.41
7:13:184:LEU:HD12	7:13:206:GLN:NE2	2.36	0.41
7:33:24:CYS:HB2	7:33:223:ASP:OD2	2.20	0.41
7:93:80:VAL:HG23	7:93:153:ASP:O	2.21	0.41
7:93:174:ARG:NH2	7:93:187:VAL:HG11	2.35	0.41
5:g5:188:ILE:HD12	5:g5:188:ILE:HA	1.86	0.41
5:g5:243:LYS:HE3	5:g5:245:TYR:HE1	1.85	0.41
5:h5:345:HIS:CG	5:h5:388:ASP:HB3	2.56	0.41
5:o5:256:LYS:O	5:o5:259:GLN:NE2	2.52	0.41
5:o5:400:GLN:OE1	5:o5:400:GLN:N	2.53	0.41
6:p5:6:GLY:HA3	6:q5:100:ALA:HB1	2.02	0.41
6:p5:62:PRO:HG3	6:p5:110:TRP:NE1	2.34	0.41
5:r5:238:ARG:NH2	5:r5:240:LEU:HD21	2.35	0.41
5:h6:398:THR:CG2	5:h6:402:ALA:HB3	2.50	0.41
5:k6:203:SER:OG	5:n6:178:GLN:OE1	2.24	0.41
5:o6:253:PHE:HZ	5:o6:269:MET:HG3	1.85	0.41
6:v6:36:LYS:HD3	6:v6:37:THR:N	2.35	0.41
6:v6:43:ALA:HA	6:v6:91:GLU:HG2	2.02	0.41
1:b7:4:LEU:HD12	6:s7:100:ALA:O	2.19	0.41
5:h7:321:PHE:HB3	5:h7:403:PHE:HZ	1.85	0.41
5:h7:374:ASP:O	5:h7:378:GLU:HG2	2.21	0.41
5:k7:238:ARG:NH1	5:k7:240:LEU:HD11	2.36	0.41
5:k7:409:VAL:HG23	5:k7:463:GLN:HA	2.02	0.41
6:m7:14:ALA:HB2	6:m7:130:VAL:HG23	2.02	0.41
5:n7:240:LEU:HD13	6:p7:135:ALA:HB1	2.03	0.41
5:n7:304:PRO:HD2	5:n7:459:GLY:O	2.21	0.41
5:o7:389:PRO:HG3	5:o7:409:VAL:HA	2.01	0.41
5:r7:308:THR:HG22	5:r7:463:GLN:O	2.20	0.41
6:t7:13:ILE:O	6:t7:13:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:v7:132:MET:HE2	6:v7:132:MET:HB2	1.96	0.41
8:AB:143:TRP:CH2	8:AC:18:PRO:HG2	2.53	0.41
8:AB:238:THR:HG21	8:AB:293:LEU:HD11	2.01	0.41
8:AB:352:THR:OG1	8:AB:353:PRO:HD3	2.20	0.41
8:AC:97:LEU:HA	8:AC:100:ILE:HG22	2.01	0.41
8:AC:402:ARG:HH21	8:AC:407:TRP:HB3	1.86	0.41
8:AD:379:LEU:HB2	8:AD:383:ARG:HH21	1.85	0.41
8:AF:75:VAL:HG12	8:AF:98:GLN:NE2	2.35	0.41
8:AH:131:VAL:HG21	8:AH:192:TYR:CZ	2.55	0.41
8:AH:198:LYS:HE3	8:AH:198:LYS:HB2	1.85	0.41
8:AH:217:ILE:C	8:AH:220:PRO:HD2	2.45	0.41
8:AK:99:GLN:NE2	8:AL:83:GLN:HB3	2.36	0.41
8:AK:243:TRP:HE3	8:AK:263:ILE:HD11	1.86	0.41
8:AL:67:THR:HG21	8:AL:346:ILE:HG13	2.03	0.41
8:AL:152:GLN:HB2	8:AL:160:VAL:HG21	2.02	0.41
8:AL:385:ASP:O	8:AL:389:THR:HG22	2.21	0.41
3:AP:48:SER:O	3:AP:49:GLN:C	2.63	0.41
9:AT:81:ILE:HG22	9:AT:148:ARG:HG3	2.03	0.41
1:e:30:ALA:HB3	1:e:31:PRO:HD3	2.02	0.41
2:a:195:PHE:HE2	8:AF:249:ARG:O	2.02	0.41
2:l:134:ARG:NH2	2:l:136:CYS:SG	2.94	0.41
2:n:85:GLY:O	2:n:110:ARG:HA	2.19	0.41
2:n:135:ARG:O	2:n:135:ARG:HG2	2.21	0.41
2:o:77:ARG:HE	7:X3:3:PHE:HB3	1.85	0.41
2:p:74:ILE:HG22	2:p:133:GLY:O	2.20	0.41
2:h:51:GLU:HB3	7:X3:12:ALA:HB1	2.02	0.41
2:k:20:ASP:OD1	3:AM:88:SER:N	2.54	0.41
2:m:78:PRO:HB2	2:m:91:GLU:CD	2.45	0.41
3:I:101:VAL:HG12	3:I:107:TYR:O	2.21	0.41
1:e1:18:LEU:HD11	5:o1:328:ARG:HG2	2.02	0.41
7:Q3:176:SER:O	7:Q3:184:LEU:HD12	2.20	0.41
7:S3:61:ILE:HG21	7:S3:168:VAL:HG13	2.03	0.41
7:W3:57:THR:HG21	7:W3:184:LEU:HD11	2.03	0.41
7:Y3:190:VAL:HG21	7:Y3:226:ILE:HD13	2.03	0.41
7:Z3:138:TRP:CZ3	7:Z3:147:GLU:HB3	2.55	0.41
7:c3:217:VAL:H	7:d3:34:VAL:HB	1.86	0.41
7:d3:53:LEU:HB2	7:d3:177:VAL:HG21	2.01	0.41
7:e3:59:PHE:CD1	7:e3:204:VAL:HG12	2.56	0.41
7:g3:138:TRP:CZ3	7:g3:147:GLU:HB3	2.55	0.41
7:k3:79:LYS:HE3	7:k3:155:THR:HA	2.01	0.41
7:w3:99:GLN:O	7:w3:142:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:33:230:GLY:OXT	7:G3:9:ARG:NH2	2.51	0.41
7:B3:51:HIS:CD2	7:B3:211:CYS:HA	2.54	0.41
7:E3:38:MET:HG2	7:E3:185:LYS:HG2	2.02	0.41
1:e5:7:ARG:HG2	1:e5:8:PRO:HD2	2.02	0.41
5:g5:177:PRO:HA	5:r5:206:THR:HG23	2.03	0.41
5:k5:333:PHE:O	5:n5:346:GLN:NE2	2.36	0.41
6:l5:127:GLN:HB2	6:m5:13:ILE:HD12	2.03	0.41
1:d6:18:LEU:HD11	5:n6:329:PHE:HB2	2.02	0.41
5:k6:357:ASP:OD2	5:k6:361:ARG:HB2	2.20	0.41
5:k6:397:GLY:HA2	5:k6:401:ASP:HB2	2.02	0.41
5:k6:432:TYR:HD2	5:k6:442:LYS:HZ2	1.69	0.41
6:p6:2:ASN:ND2	6:q6:102:THR:OG1	2.53	0.41
6:s6:52:HIS:ND1	6:s6:64:PRO:O	2.36	0.41
6:u6:9:PHE:CE1	6:u6:133:LYS:HA	2.56	0.41
6:l7:48:ASN:OD1	6:l7:67:ARG:NH2	2.51	0.41
5:n7:329:PHE:CD1	5:n7:462:LEU:HD13	2.55	0.41
6:p7:91:GLU:CD	6:p7:92:THR:HG23	2.45	0.41
5:r7:347:ASN:ND2	5:r7:392:GLY:O	2.54	0.41
8:AA:317:ILE:H	8:AA:317:ILE:HD12	1.85	0.41
8:AB:182:LYS:HE2	8:AB:186:GLY:O	2.20	0.41
8:AE:310:ALA:O	8:AE:315:ILE:HG12	2.20	0.41
8:AG:267:LYS:HD2	8:AH:237:GLY:HA2	2.02	0.41
8:AH:71:VAL:HG22	8:AH:371:PHE:HB2	2.02	0.41
8:AI:121:TRP:CZ2	8:AI:198:LYS:HD3	2.54	0.41
8:AK:402:ARG:HE	8:AK:407:TRP:HB3	1.85	0.41
3:AM:92:TRP:O	3:AM:115:VAL:HB	2.20	0.41
3:AM:109:LYS:HA	3:AM:109:LYS:HD3	1.81	0.41
9:AR:88:LYS:NZ	9:AR:103:SER:HB3	2.36	0.41
9:AX:93:ASP:O	9:AX:95:LYS:N	2.54	0.41
2:a:189:GLY:O	2:a:193:GLU:HG2	2.21	0.41
2:l:74:ILE:HG21	2:l:134:ARG:H	1.85	0.41
2:o:167:ARG:H	2:h:177:LEU:H	1.68	0.41
2:h:23:ARG:HG3	2:h:24:VAL:HG13	2.03	0.41
2:h:67:ILE:HG13	2:h:101:LEU:HB2	2.03	0.41
2:i:61:LYS:HD3	8:AL:265:GLU:OE2	2.19	0.41
2:k:135:ARG:HD2	2:k:135:ARG:HA	1.86	0.41
5:h1:345:HIS:CG	5:h1:388:ASP:HB3	2.55	0.41
5:k1:257:ASN:OD1	5:k1:258:LEU:HD12	2.21	0.41
5:k1:303:PHE:CD2	5:k1:456:CYS:HB2	2.55	0.41
6:m1:47:PHE:HB2	6:m1:87:VAL:CG2	2.50	0.41
5:o1:201:GLU:CD	5:o1:201:GLU:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:q1:62:PRO:HD3	6:q1:110:TRP:CH2	2.55	0.41
6:m2:20:SER:OG	6:m2:21:PHE:N	2.54	0.41
5:n2:231:PHE:HB3	5:o2:250:VAL:O	2.20	0.41
5:n2:322:LEU:HD23	5:n2:324:GLN:HB3	2.01	0.41
7:Q3:171:PRO:O	7:Q3:175:ARG:NH2	2.53	0.41
7:R3:133:GLY:H	7:R3:152:VAL:HG23	1.85	0.41
7:b3:101:GLU:OE1	7:b3:101:GLU:N	2.54	0.41
7:c3:2:TYR:HB2	7:c3:37:VAL:HG22	2.03	0.41
7:k3:136:ARG:HG2	7:k3:149:VAL:HG23	2.03	0.41
7:r3:10:ASN:ND2	7:s3:1:MET:O	2.53	0.41
7:r3:154:PRO:O	7:r3:155:THR:HG22	2.21	0.41
7:r3:157:SER:O	7:r3:158:GLU:HG2	2.21	0.41
7:s3:38:MET:HE3	7:s3:185:LYS:HE2	2.02	0.41
7:t3:157:SER:O	7:t3:158:GLU:HG2	2.20	0.41
7:33:154:PRO:O	7:33:156:THR:HG23	2.20	0.41
7:73:210:ASP:HB3	7:73:216:PHE:HE2	1.86	0.41
7:03:78:THR:HB	7:03:84:PHE:HD2	1.86	0.41
7:B3:39:VAL:HG13	7:B3:184:LEU:HB3	2.03	0.41
1:a5:27:ARG:NH1	5:n5:325:ASP:OD1	2.44	0.41
1:e5:20:SER:OG	5:o5:324:GLN:NE2	2.50	0.41
5:g5:329:PHE:O	5:g5:332:SER:OG	2.37	0.41
6:l5:11:SER:H	6:m5:34:THR:HG21	1.86	0.41
5:n5:175:PHE:CE1	5:h7:261:ALA:HB2	2.56	0.41
5:o5:286:MET:O	5:o5:298:LEU:HB2	2.20	0.41
5:k6:197:TYR:O	5:k6:199:GLN:NE2	2.45	0.41
5:n6:247:TYR:N	5:n6:447:ALA:O	2.33	0.41
5:o6:284:ALA:HB1	5:o6:294:PRO:HD2	2.03	0.41
5:r7:373:PRO:HD2	5:r7:375:LEU:HD22	2.03	0.41
6:v7:1:MET:HE3	6:v7:3:PHE:CZ	2.55	0.41
8:AA:18:PRO:HD3	8:AL:140:ASN:ND2	2.36	0.41
8:AB:155:ASP:HB3	8:AB:161:GLU:OE1	2.20	0.41
8:AB:198:LYS:HA	8:AB:199:PRO:HD3	1.93	0.41
8:AD:256:ALA:HA	8:AD:259:VAL:HG12	2.02	0.41
8:AE:28:ARG:CG	8:AE:29:ARG:H	2.34	0.41
8:AE:150:LEU:HD11	8:AE:163:PHE:HB3	2.02	0.41
8:AE:223:LEU:HD12	8:AE:223:LEU:HA	1.96	0.41
8:AF:243:TRP:O	8:AF:245:VAL:HG23	2.21	0.41
8:AF:251:LEU:HD21	8:AF:282:THR:HA	2.01	0.41
8:AF:252:ASP:OD1	8:AF:255:GLN:NE2	2.54	0.41
8:AF:316:PRO:HD2	8:AF:341:PHE:HB2	2.01	0.41
8:AG:300:VAL:HB	8:AG:301:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:374:ASP:OD1	8:AI:374:ASP:N	2.53	0.41
8:AK:119:LEU:HD21	8:AL:201:ILE:HG12	2.02	0.41
8:AK:201:ILE:HG22	8:AK:202:ASN:N	2.36	0.41
10:AU:110:SER:OG	10:AU:111:ASP:N	2.53	0.41
10:Ab:17:THR:OG1	10:Ab:84:GLN:HB3	2.20	0.41
2:a:41:GLU:CG	2:a:48:PHE:HB3	2.51	0.41
2:b:134:ARG:O	2:b:134:ARG:HG3	2.20	0.41
2:n:74:ILE:HG22	2:n:75:ALA:H	1.86	0.41
2:o:17:LYS:HD3	3:AN:106:ARG:CD	2.50	0.41
2:q:72:THR:HG23	2:q:72:THR:O	2.21	0.41
2:h:167:ARG:HA	2:h:167:ARG:HD3	1.54	0.41
2:j:110:ARG:HE	5:h6:239:HIS:HB3	1.86	0.41
2:j:136:CYS:HB3	7:K3:19:CYS:N	2.36	0.41
2:m:186:VAL:HG13	2:m:187:ILE:HD12	2.03	0.41
5:g1:194:LEU:HD23	5:g1:194:LEU:HA	1.85	0.41
5:h1:407:SER:OG	5:h1:408:PHE:N	2.53	0.41
5:k1:449:ASP:OD1	5:k1:449:ASP:N	2.53	0.41
6:m1:20:SER:OG	6:m1:21:PHE:N	2.54	0.41
6:m1:93:VAL:HG23	6:m1:93:VAL:O	2.21	0.41
5:n1:212:ILE:HA	5:n1:237:ILE:HG13	2.03	0.41
5:n1:253:PHE:HZ	5:n1:269:MET:HG3	1.85	0.41
6:p1:33:PHE:CE1	6:p1:113:ILE:HD11	2.55	0.41
6:t1:26:ASP:OD2	6:t1:109:GLN:NE2	2.36	0.41
1:a2:25:ILE:HG21	4:f2:26:VAL:HG11	2.01	0.41
5:k2:218:LEU:O	5:n2:247:TYR:OH	2.30	0.41
6:p2:78:LEU:HD22	6:p2:78:LEU:H	1.86	0.41
5:r2:247:TYR:HE1	5:r2:280:ASN:HD22	1.69	0.41
7:Q3:157:SER:O	7:Q3:158:GLU:HG2	2.20	0.41
7:a3:138:TRP:CZ3	7:a3:147:GLU:HB3	2.55	0.41
7:k3:87:THR:HG22	7:k3:89:SER:H	1.84	0.41
7:m3:75:PHE:CE1	7:m3:162:PRO:HD2	2.55	0.41
7:o3:208:ALA:HB3	7:o3:216:PHE:HB2	2.02	0.41
7:53:154:PRO:O	7:53:156:THR:HG23	2.21	0.41
7:73:209:ILE:HD11	7:73:213:GLY:HA2	2.02	0.41
7:83:135:ASP:OD1	7:83:136:ARG:N	2.53	0.41
7:C3:174:ARG:NE	7:C3:187:VAL:HG21	2.35	0.41
7:D3:98:GLU:N	7:D3:98:GLU:OE1	2.54	0.41
7:D3:103:GLU:HB3	7:D3:140:SER:OG	2.21	0.41
7:E3:39:VAL:HG13	7:E3:184:LEU:HB3	2.03	0.41
1:b5:11:GLN:OE1	1:b5:11:GLN:N	2.48	0.41
5:o5:209:TYR:HB3	5:r5:180:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:o5:286:MET:HE3	5:o5:286:MET:HB2	1.94	0.41
6:p5:33:PHE:CD1	6:p5:130:VAL:HG22	2.55	0.41
1:d6:25:ILE:HB	5:o6:311:VAL:HG11	2.03	0.41
1:e6:9:LEU:HD21	6:v6:98:PHE:HD1	1.84	0.41
6:l6:24:LYS:HA	6:l6:24:LYS:HD2	1.67	0.41
5:o6:281:ARG:O	5:o6:285:LEU:HG	2.20	0.41
6:p6:33:PHE:CE1	6:p6:113:ILE:HD11	2.55	0.41
6:m7:50:PHE:HE1	6:m7:67:ARG:HD2	1.86	0.41
5:n7:229:ALA:HB1	5:o7:249:GLY:HA2	2.02	0.41
5:r7:241:GLU:CD	6:t7:29:ASN:HD21	2.28	0.41
6:s7:24:LYS:HG2	6:s7:26:ASP:H	1.85	0.41
8:AA:196:ILE:H	8:AA:196:ILE:HD12	1.86	0.41
8:AB:44:ASN:HB3	8:AB:210:GLN:HE22	1.85	0.41
8:AE:25:ILE:HG23	8:AE:28:ARG:CZ	2.51	0.41
8:AG:155:ASP:HB3	8:AG:161:GLU:OE2	2.21	0.41
8:AG:305:GLN:HA	8:AG:305:GLN:OE1	2.20	0.41
8:AH:83:GLN:HE21	8:AH:366:GLY:H	1.68	0.41
8:AJ:89:MET:HE2	8:AJ:364:GLY:HA3	2.03	0.41
8:AK:297:HIS:NE2	8:AL:304:ASP:OD2	2.54	0.41
8:AK:336:GLU:HG2	8:AK:337:SER:N	2.35	0.41
8:AL:347:GLU:HB3	8:AL:348:PRO:HD3	2.02	0.41
9:AQ:121:PHE:O	9:AQ:124:GLU:HG2	2.20	0.41
10:AZ:4:ASN:HD21	10:AV:113:ARG:HE	1.67	0.41
3:AN:79:ALA:HB3	3:AN:95:VAL:HG21	2.03	0.41
10:AV:42:ASN:ND2	10:Aa:76:LEU:HD22	2.35	0.41
1:d:9:LEU:HG	6:l1:24:LYS:HD3	2.02	0.41
2:a:153:ALA:HA	2:a:156:ILE:HG22	2.03	0.41
2:a:168:ASN:OD1	2:a:170:LEU:N	2.53	0.41
2:l:199:ARG:HD3	8:AA:255:GLN:NE2	2.32	0.41
2:n:15:HIS:HB2	2:q:28:LEU:HD11	2.03	0.41
2:p:188:SER:HA	2:i:182:ASN:ND2	2.35	0.41
2:h:166:VAL:O	2:h:167:ARG:C	2.62	0.41
5:o1:328:ARG:O	5:o1:332:SER:HB3	2.21	0.41
6:s1:24:LYS:HG2	6:s1:26:ASP:H	1.84	0.41
6:s1:33:PHE:N	6:s1:101:GLY:O	2.49	0.41
6:v1:46:THR:HG23	6:v1:116:ALA:HB3	2.02	0.41
5:o2:255:ARG:NE	5:o2:441:VAL:HG13	2.36	0.41
6:q2:31:PHE:CZ	6:q2:111:ILE:HG13	2.55	0.41
6:s2:67:ARG:HE	6:s2:84:LEU:HG	1.86	0.41
7:K3:176:SER:O	7:K3:184:LEU:HD12	2.20	0.41
7:O3:59:PHE:HD1	7:O3:204:VAL:HG12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q3:30:ARG:HB3	7:Q3:33:GLU:CD	2.45	0.41
7:T3:50:GLY:HA2	7:T3:211:CYS:SG	2.61	0.41
7:Y3:167:PRO:HA	7:Y3:191:SER:OG	2.21	0.41
7:d3:61:ILE:HG21	7:d3:168:VAL:HG13	2.03	0.41
7:e3:87:THR:HG22	7:e3:89:SER:H	1.85	0.41
7:f3:205:ARG:HB3	7:g3:107:LEU:HD12	2.01	0.41
7:k3:4:PHE:HZ	7:k3:27:ILE:HG13	1.85	0.41
7:p3:78:THR:HG21	7:p3:84:PHE:HB2	2.02	0.41
7:u3:138:TRP:CE3	7:u3:147:GLU:HB3	2.55	0.41
7:x3:56:LYS:HB3	7:x3:207:VAL:HG21	2.03	0.41
7:13:138:TRP:CE3	7:13:147:GLU:HB3	2.55	0.41
7:53:135:ASP:OD1	7:53:136:ARG:N	2.53	0.41
7:A3:106:GLU:H	7:A3:106:GLU:CD	2.29	0.41
7:E3:48:LEU:HG	7:F3:1:MET:HE3	2.02	0.41
1:e5:21:PRO:HB3	5:r5:351:TYR:CE1	2.56	0.41
6:l5:55:SER:O	6:l5:57:ALA:N	2.53	0.41
5:n5:329:PHE:CG	5:n5:462:LEU:HD12	2.56	0.41
5:o5:432:TYR:HB2	5:o5:444:GLN:HB2	2.02	0.41
1:d6:30:ALA:HB3	1:d6:31:PRO:HD3	2.03	0.41
1:d6:34:PRO:HG3	5:r6:315:GLY:HA3	2.03	0.41
1:e6:27:ARG:HG2	5:r6:311:VAL:HG12	2.02	0.41
5:n6:304:PRO:HD2	5:n6:459:GLY:O	2.21	0.41
5:o6:254:ASN:O	5:o6:258:LEU:HD13	2.21	0.41
5:r6:241:GLU:OE1	6:t6:134:GLY:HA3	2.20	0.41
6:s6:33:PHE:N	6:s6:101:GLY:O	2.52	0.41
5:h7:262:ASN:OD1	5:h7:263:TYR:N	2.53	0.41
5:n7:326:TRP:O	5:n7:330:VAL:HG23	2.21	0.41
8:AA:97:LEU:HA	8:AA:100:ILE:HG22	2.03	0.41
8:AA:341:PHE:CZ	8:AA:346:ILE:HD11	2.55	0.41
8:AD:102:GLN:OE1	8:AD:103:ARG:HG3	2.20	0.41
8:AE:115:TYR:O	8:AE:119:LEU:HD23	2.21	0.41
8:AE:155:ASP:HB3	8:AE:161:GLU:HG3	2.03	0.41
8:AG:372:ASP:OD1	8:AG:375:SER:HB2	2.21	0.41
8:AH:351:LEU:HB3	8:AH:371:PHE:CZ	2.55	0.41
8:AI:37:LYS:HD2	8:AI:38:ASN:O	2.21	0.41
8:AK:384:ALA:HB1	8:AL:389:THR:CG2	2.51	0.41
8:AL:386:ILE:HA	8:AL:389:THR:HG22	2.02	0.41
3:AM:104:CYS:O	3:AM:105:SER:OG	2.37	0.41
3:AP:16:GLN:HB3	3:AP:28:THR:HG23	2.02	0.41
3:AP:56:LYS:HD2	3:AP:56:LYS:N	2.35	0.41
10:AV:84:GLN:HE21	10:AV:101:GLU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Aa:33:PRO:HB3	10:Aa:69:VAL:HG22	2.03	0.41
9:AW:135:ASP:OD2	9:AW:146:GLU:HB3	2.21	0.41
10:AY:71:ASP:HB3	10:AY:74:VAL:HG12	2.03	0.41
1:c:17:ARG:O	1:c:18:LEU:HD23	2.20	0.41
1:d:21:PRO:HB3	5:h6:351:TYR:CE2	2.56	0.41
1:e:31:PRO:HB3	4:f1:23:CYS:HB3	2.02	0.41
1:f:11:GLN:H	1:f:11:GLN:HG3	1.75	0.41
2:a:48:PHE:O	2:a:49:THR:OG1	2.33	0.41
2:l:77:ARG:NH1	7:R3:1:MET:O	2.53	0.41
2:n:74:ILE:HD13	2:n:134:ARG:HB3	2.03	0.41
2:o:73:PRO:HG2	2:o:94:PRO:HG3	2.03	0.41
2:p:79:VAL:HG22	2:p:92:LEU:O	2.20	0.41
2:p:79:VAL:N	2:p:92:LEU:O	2.49	0.41
2:p:166:VAL:HA	2:i:177:LEU:HB2	2.02	0.41
2:i:79:VAL:HG12	2:i:130:TYR:CB	2.50	0.41
2:j:184:GLY:C	2:j:186:VAL:H	2.28	0.41
2:k:35:ALA:O	2:k:38:GLU:HG3	2.20	0.41
2:m:40:ALA:C	2:m:42:LEU:H	2.29	0.41
2:m:52:LYS:O	2:m:132:THR:HG22	2.20	0.41
3:H:67:MET:HG2	3:H:68:ASN:N	2.36	0.41
3:I:11:ILE:HG13	3:I:34:GLN:HG3	2.02	0.41
3:I:46:ARG:NE	3:AM:77:VAL:HG23	2.36	0.41
1:a1:26:CYS:HB3	1:d1:23:CYS:HB2	1.40	0.41
6:m1:73:PHE:HZ	6:m1:104:PRO:HB3	1.85	0.41
5:r1:254:ASN:HD22	5:r1:257:ASN:CG	2.28	0.41
5:g2:223:CYS:HB3	5:h2:292:ASN:HA	2.03	0.41
5:k2:375:LEU:HD12	5:k2:380:ILE:HB	2.01	0.41
5:n2:200:ILE:HG23	5:n2:422:VAL:HG12	2.03	0.41
5:n2:214:ASP:HA	5:o2:187:ASN:HD21	1.86	0.41
5:n2:287:ILE:HA	5:n2:299:THR:HG23	2.03	0.41
6:s2:136:THR:O	6:s2:137:ARG:HB3	2.21	0.41
6:t2:70:GLU:HB2	6:t2:84:LEU:C	2.45	0.41
6:u2:69:PRO:HD2	6:u2:107:ASN:ND2	2.36	0.41
7:L3:101:GLU:N	7:L3:101:GLU:OE1	2.54	0.41
7:N3:202:LEU:O	7:N3:222:TYR:N	2.54	0.41
7:S3:108:ASN:HB3	7:S3:138:TRP:CD1	2.56	0.41
7:X3:133:GLY:H	7:X3:152:VAL:HG23	1.85	0.41
7:a3:56:LYS:HB2	7:a3:56:LYS:HE3	1.82	0.41
7:a3:205:ARG:HB3	7:b3:107:LEU:HD12	2.02	0.41
7:c3:79:LYS:HE3	7:c3:155:THR:HA	2.03	0.41
7:c3:190:VAL:HG11	7:c3:226:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d3:217:VAL:H	7:e3:34:VAL:HB	1.86	0.41
7:e3:172:ALA:O	7:e3:175:ARG:NH1	2.54	0.41
7:f3:102:TYR:HD1	7:f3:141:ILE:HD12	1.85	0.41
7:f3:138:TRP:CZ3	7:f3:147:GLU:HB3	2.56	0.41
7:f3:217:VAL:HB	7:g3:34:VAL:HG23	2.03	0.41
7:h3:184:LEU:HD23	7:h3:185:LYS:N	2.36	0.41
7:i3:137:PHE:CE1	7:i3:148:TYR:HB3	2.56	0.41
7:j3:71:VAL:HG11	7:j3:141:ILE:HB	2.03	0.41
7:k3:38:MET:HG2	7:k3:185:LYS:HD3	2.03	0.41
7:o3:54:THR:HG23	7:o3:56:LYS:HD3	2.02	0.41
7:r3:35:ASN:OD1	7:r3:36:GLY:N	2.46	0.41
7:r3:88:LEU:N	7:r3:121:GLY:O	2.54	0.41
7:u3:138:TRP:HZ3	7:u3:193:ALA:HB2	1.86	0.41
7:v3:80:VAL:HG12	7:v3:155:THR:HB	2.02	0.41
7:w3:53:LEU:HD12	7:w3:206:GLN:CD	2.45	0.41
7:w3:157:SER:O	7:w3:158:GLU:HG2	2.21	0.41
7:w3:174:ARG:NE	7:w3:187:VAL:HG21	2.36	0.41
7:x3:29:ALA:HB1	7:x3:190:VAL:HG21	2.03	0.41
7:x3:138:TRP:CH2	7:x3:191:SER:HB2	2.56	0.41
7:x3:206:GLN:OE1	7:x3:207:VAL:N	2.52	0.41
7:y3:80:VAL:HG12	7:y3:155:THR:HB	2.03	0.41
7:23:52:GLY:O	7:23:209:ILE:HG22	2.21	0.41
7:53:200:TYR:HB2	7:53:224:ILE:HG13	2.02	0.41
7:83:98:GLU:OE1	7:83:98:GLU:N	2.54	0.41
7:A3:135:ASP:OD1	7:A3:136:ARG:N	2.54	0.41
7:B3:44:TRP:CH2	7:B3:218:HIS:HB2	2.55	0.41
7:B3:59:PHE:HE2	7:B3:175:ARG:HE	1.69	0.41
7:C3:38:MET:HE3	7:C3:185:LYS:HE2	2.03	0.41
7:G3:209:ILE:HD11	7:G3:213:GLY:HA2	2.03	0.41
1:b5:21:PRO:HG3	5:g5:351:TYR:CE2	2.56	0.41
5:g5:184:VAL:HG13	5:r5:211:LYS:HG2	2.02	0.41
6:l5:67:ARG:HG2	6:l5:84:LEU:HD23	2.03	0.41
6:m5:94:THR:HA	6:m5:95:PRO:HD3	1.90	0.41
5:o5:224:ASP:O	5:o5:226:LYS:N	2.52	0.41
6:q5:62:PRO:HB3	6:q5:110:TRP:CD2	2.55	0.41
5:r5:387:PRO:HD2	5:r5:408:PHE:CD1	2.54	0.41
6:t5:58:ASP:HB3	6:t5:61:VAL:HG22	2.02	0.41
6:u5:119:SER:O	6:u5:119:SER:OG	2.39	0.41
6:v5:70:GLU:HB2	6:v5:85:ALA:HB2	2.02	0.41
5:g6:230:GLU:HG2	5:g6:231:PHE:N	2.36	0.41
5:g6:300:GLU:HG3	5:g6:302:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:n6:180:LEU:HD23	5:n6:180:LEU:H	1.84	0.41
5:n6:427:MET:HG2	5:n6:447:ALA:HB2	2.02	0.41
6:p6:89:LEU:HD21	6:p6:93:VAL:HG21	2.03	0.41
6:s6:14:ALA:HB2	6:s6:130:VAL:HG23	2.03	0.41
6:s6:106:MET:SD	6:s6:106:MET:N	2.92	0.41
5:g7:236:ASN:O	5:g7:237:ILE:HD13	2.20	0.41
5:n7:204:ARG:HD2	5:o7:178:GLN:HB3	2.03	0.41
6:q7:34:THR:O	6:q7:34:THR:OG1	2.39	0.41
6:q7:49:ILE:HD12	6:q7:112:SER:O	2.21	0.41
5:r7:281:ARG:HE	5:r7:449:ASP:CG	2.29	0.41
6:s7:78:LEU:HD23	6:s7:79:LEU:N	2.36	0.41
6:u7:74:CYS:SG	6:u7:75:ASP:N	2.94	0.41
8:AA:266:THR:OG1	8:AB:239:PRO:HB3	2.20	0.41
8:AA:290:LYS:HD3	8:AA:292:ASP:HB2	2.03	0.41
8:AB:347:GLU:OE2	8:AB:352:THR:HG23	2.21	0.41
8:AD:137:GLY:HA3	8:AD:187:ARG:HE	1.85	0.41
8:AD:201:ILE:HG22	8:AD:202:ASN:N	2.36	0.41
8:AE:26:PHE:HA	8:AE:30:PHE:HB3	2.03	0.41
8:AE:52:MET:HE1	8:AE:61:LEU:HG	2.03	0.41
8:AE:97:LEU:O	8:AE:100:ILE:HG22	2.21	0.41
8:AE:164:GLN:HE21	8:AE:171:LYS:HA	1.86	0.41
8:AE:182:LYS:HA	8:AE:188:PRO:HA	2.02	0.41
8:AF:130:LYS:O	8:AF:142:ILE:HA	2.21	0.41
8:AF:290:LYS:HD2	8:AF:292:ASP:HB2	2.02	0.41
8:AG:129:PHE:HB2	8:AG:194:PHE:CD2	2.55	0.41
8:AH:178:THR:C	8:AH:179:LYS:HD2	2.46	0.41
8:AI:243:TRP:CH2	8:AJ:289:MET:HE3	2.56	0.41
8:AJ:95:LYS:HE3	8:AJ:95:LYS:HB3	1.88	0.41
8:AJ:220:PRO:HB3	8:AJ:305:GLN:HG2	2.03	0.41
8:AL:219:VAL:HB	8:AL:220:PRO:HD3	2.03	0.41
8:AL:246:THR:O	8:AL:284:VAL:HG13	2.21	0.41
10:AU:129:PRO:O	10:AU:130:PRO:C	2.63	0.41
3:AN:65:ILE:CG2	3:AN:110:ILE:HB	2.51	0.41
9:AS:107:TYR:CZ	9:AT:57:LEU:HD22	2.55	0.41
3:AO:26:LEU:HA	9:AW:98:GLU:O	2.21	0.41
3:AO:100:ASN:ND2	3:AO:103:GLU:OE1	2.52	0.41
10:AY:42:ASN:ND2	10:Ab:76:LEU:HD22	2.35	0.41
2:b:40:ALA:HB1	2:b:194:TRP:CE2	2.56	0.41
2:b:198:ARG:HH21	2:b:199:ARG:HH12	1.69	0.41
2:l:51:GLU:N	2:l:133:GLY:O	2.42	0.41
2:n:108:PRO:HA	5:h1:241:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:138:ASN:HB3	2:i:139:SER:H	1.71	0.41
2:m:43:TYR:HE2	2:m:194:TRP:HB2	1.86	0.41
2:m:148:ILE:O	2:m:152:ILE:HG12	2.21	0.41
5:h1:183:GLU:HG2	5:h1:183:GLU:O	2.21	0.41
6:m1:47:PHE:HB2	6:m1:87:VAL:HG22	2.02	0.41
6:q1:38:ILE:HG22	6:q1:125:ASN:HB3	2.03	0.41
6:v1:20:SER:OG	6:v1:21:PHE:N	2.53	0.41
6:v1:24:LYS:HE2	6:v1:26:ASP:HB3	2.03	0.41
5:h2:266:LEU:O	5:h2:270:ILE:HG12	2.21	0.41
6:p2:35:PHE:CD1	6:p2:128:ILE:HD12	2.56	0.41
7:J3:30:ARG:HB3	7:J3:33:GLU:HG2	2.04	0.41
7:S3:118:GLY:N	7:S3:122:ALA:O	2.45	0.41
7:U3:30:ARG:CZ	7:U3:229:CYS:HA	2.50	0.41
7:V3:132:THR:HA	7:V3:152:VAL:HG23	2.03	0.41
7:W3:30:ARG:HB3	7:W3:33:GLU:CD	2.46	0.41
7:c3:24:CYS:HB2	7:c3:223:ASP:OD1	2.20	0.41
7:g3:61:ILE:HG21	7:g3:168:VAL:HG23	2.03	0.41
7:i3:90:ASP:OD1	7:i3:90:ASP:N	2.46	0.41
7:m3:70:LYS:H	7:m3:70:LYS:HG2	1.76	0.41
7:m3:174:ARG:CZ	7:m3:187:VAL:HG21	2.50	0.41
7:n3:174:ARG:NE	7:n3:187:VAL:HG21	2.36	0.41
7:q3:118:GLY:N	7:q3:122:ALA:O	2.32	0.41
7:u3:80:VAL:HG12	7:u3:155:THR:HB	2.03	0.41
7:43:139:PHE:HE1	7:43:148:TYR:HB2	1.85	0.41
7:43:200:TYR:O	7:43:224:ILE:N	2.50	0.41
7:53:199:VAL:HG12	7:53:225:SER:HA	2.02	0.41
7:63:59:PHE:CD1	7:63:204:VAL:HG12	2.56	0.41
7:93:139:PHE:HE1	7:93:148:TYR:HB2	1.86	0.41
7:03:171:PRO:HG2	7:03:174:ARG:HD3	2.03	0.41
7:B3:209:ILE:HG12	7:B3:210:ASP:O	2.21	0.41
7:G3:154:PRO:O	7:G3:156:THR:HG23	2.21	0.41
5:g5:220:GLU:OE2	5:g5:221:TYR:HB2	2.21	0.41
5:h5:292:ASN:OD1	5:h5:293:GLU:HG2	2.21	0.41
5:k5:196:LEU:HD11	5:k5:381:ARG:CD	2.49	0.41
5:k5:257:ASN:HA	5:k5:260:GLU:HG3	2.03	0.41
5:k5:391:GLU:O	5:k5:394:THR:OG1	2.32	0.41
5:n5:391:GLU:OE2	5:n5:395:LYS:HD3	2.21	0.41
5:o5:213:ALA:HB3	5:o5:236:ASN:OD1	2.21	0.41
6:q5:113:ILE:HD13	6:q5:113:ILE:HA	1.96	0.41
6:q5:135:ALA:C	6:q5:137:ARG:H	2.29	0.41
5:r5:375:LEU:H	5:r5:375:LEU:HD12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:u5:9:PHE:CZ	6:u5:133:LYS:HG3	2.56	0.41
1:e6:16:SER:O	5:r6:394:THR:HG21	2.21	0.41
5:k6:304:PRO:HD2	5:k6:459:GLY:O	2.20	0.41
6:v6:48:ASN:HD22	6:v6:67:ARG:HH12	1.69	0.41
5:h7:254:ASN:HB3	5:h7:257:ASN:HB2	2.02	0.41
6:m7:56:ASP:OD2	6:m7:56:ASP:N	2.54	0.41
5:n7:212:ILE:HA	5:n7:237:ILE:HG22	2.03	0.41
5:o7:304:PRO:HD2	5:o7:459:GLY:O	2.21	0.41
6:p7:70:GLU:HA	6:p7:85:ALA:HB2	2.02	0.41
6:p7:73:PHE:H	6:p7:76:THR:CG2	2.34	0.41
6:q7:43:ALA:H	6:q7:122:ASN:HD21	1.68	0.41
8:AB:400:GLU:H	8:AB:400:GLU:HG2	1.72	0.41
8:AC:127:MET:HB3	8:AC:129:PHE:HE2	1.85	0.41
8:AC:214:LEU:HA	8:AC:217:ILE:HG12	2.02	0.41
8:AE:145:LEU:HD21	8:AE:150:LEU:HD13	2.03	0.41
8:AE:251:LEU:HD23	8:AE:251:LEU:HA	1.68	0.41
8:AF:251:LEU:HA	8:AF:251:LEU:HD23	1.81	0.41
8:AH:77:LYS:HD2	8:AH:81:ASN:ND2	2.36	0.41
8:AH:95:LYS:HE3	8:AH:95:LYS:HB3	1.87	0.41
8:AI:42:TYR:HA	8:AI:45:VAL:HG23	2.03	0.41
8:AJ:219:VAL:HB	8:AJ:220:PRO:HD3	2.02	0.41
8:AL:59:ARG:HG2	8:AL:63:LYS:HZ2	1.86	0.41
8:AL:130:LYS:HB2	8:AL:145:LEU:HD21	2.02	0.41
10:AU:94:GLY:O	10:AU:127:LEU:HD22	2.21	0.41
3:AO:6:ARG:CZ	3:AO:68:ASN:HD21	2.33	0.41
3:AO:59:MET:HE3	3:AO:59:MET:HB3	2.00	0.41
10:AY:7:ASN:OD1	10:AY:8:GLY:N	2.54	0.41
2:n:6:LEU:HD21	2:n:138:ASN:ND2	2.36	0.40
2:h:77:ARG:HG3	2:h:78:PRO:HD2	2.02	0.40
2:i:154:TRP:CH2	2:i:187:ILE:HD13	2.56	0.40
2:m:74:ILE:HB	2:m:75:ALA:H	1.53	0.40
2:m:79:VAL:HG12	2:m:130:TYR:CB	2.50	0.40
3:H:77:VAL:HG13	3:AN:48:SER:N	2.30	0.40
5:g1:178:GLN:NE2	5:r1:202:VAL:HG13	2.36	0.40
5:h1:303:PHE:CD1	5:h1:459:GLY:HA3	2.55	0.40
6:m1:103:VAL:HG22	6:m1:105:CYS:H	1.86	0.40
1:d2:21:PRO:HB3	5:o2:351:TYR:CZ	2.56	0.40
5:h2:208:THR:HA	5:h2:241:GLU:HA	2.01	0.40
5:o2:400:GLN:OE1	5:o2:400:GLN:N	2.54	0.40
6:p2:67:ARG:HG2	6:p2:84:LEU:HB3	2.03	0.40
7:J3:174:ARG:NE	7:J3:187:VAL:HG21	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K3:166:THR:OG1	7:K3:168:VAL:O	2.38	0.40
7:K3:205:ARG:HB3	7:L3:107:LEU:HD12	2.03	0.40
7:P3:172:ALA:O	7:P3:175:ARG:NH1	2.50	0.40
7:Q3:157:SER:OG	7:Q3:158:GLU:N	2.54	0.40
7:R3:103:GLU:HB3	7:R3:140:SER:OG	2.20	0.40
7:T3:51:HIS:HB2	7:T3:209:ILE:HG23	2.03	0.40
7:Z3:132:THR:HA	7:Z3:152:VAL:HG23	2.03	0.40
7:i3:75:PHE:HB2	7:i3:164:PHE:CZ	2.56	0.40
7:i3:102:TYR:HD1	7:i3:141:ILE:HD12	1.86	0.40
7:n3:80:VAL:HG23	7:n3:153:ASP:O	2.21	0.40
7:p3:108:ASN:HB3	7:p3:138:TRP:CD1	2.56	0.40
7:v3:79:LYS:HE3	7:v3:155:THR:HA	2.03	0.40
7:w3:38:MET:HG2	7:w3:185:LYS:HB3	2.03	0.40
7:13:154:PRO:O	7:13:155:THR:HG22	2.21	0.40
7:23:56:LYS:HB2	7:23:56:LYS:HE3	1.82	0.40
7:93:78:THR:HB	7:93:84:PHE:CD2	2.56	0.40
7:D3:41:TYR:O	7:D3:45:SER:OG	2.29	0.40
5:g5:344:MET:HE2	5:g5:380:ILE:HG21	2.03	0.40
5:k5:409:VAL:HG23	5:k5:410:ALA:N	2.36	0.40
6:m5:34:THR:OG1	6:m5:129:THR:OG1	2.38	0.40
5:n5:283:GLN:HE21	5:n5:287:ILE:HD11	1.86	0.40
5:r5:253:PHE:HD2	5:r5:258:LEU:HD22	1.86	0.40
5:g6:185:ASP:OD2	5:g6:187:ASN:HB2	2.22	0.40
5:h6:233:GLU:HA	5:h6:234:PRO:HD3	1.90	0.40
6:u6:36:LYS:O	6:u6:127:GLN:N	2.50	0.40
5:g7:327:ARG:O	5:g7:331:THR:HG22	2.20	0.40
5:h7:212:ILE:O	5:h7:212:ILE:HG13	2.21	0.40
6:u7:106:MET:SD	6:u7:106:MET:N	2.89	0.40
8:AA:18:PRO:C	8:AA:20:ALA:N	2.76	0.40
8:AA:98:GLN:O	8:AA:101:LEU:HG	2.21	0.40
8:AA:286:VAL:HG11	8:AB:244:LEU:HD13	2.02	0.40
8:AB:99:GLN:O	8:AB:103:ARG:N	2.48	0.40
8:AE:286:VAL:HG11	8:AF:289:MET:HE1	2.02	0.40
8:AF:172:GLU:HG2	8:AF:172:GLU:O	2.20	0.40
8:AI:350:TYR:C	8:AI:353:PRO:HD2	2.46	0.40
8:AI:359:SER:OG	8:AI:368:ARG:HB2	2.22	0.40
8:AJ:89:MET:HB2	8:AJ:93:GLN:OE1	2.21	0.40
8:AK:99:GLN:O	8:AK:103:ARG:N	2.51	0.40
8:AL:62:ASP:O	8:AL:66:LEU:HG	2.22	0.40
8:AL:390:TYR:O	8:AL:401:LYS:HD3	2.21	0.40
10:AZ:32:GLN:HG3	10:AZ:33:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AS:73:THR:HG21	10:AY:69:VAL:HG21	2.02	0.40
9:AT:50:LEU:HG	9:AT:87:LYS:HE3	2.03	0.40
9:AX:38:VAL:HG21	9:AX:83:GLU:OE1	2.21	0.40
10:Ab:88:GLN:HG3	10:Ab:98:THR:HG23	2.03	0.40
1:f:25:ILE:HD13	5:h2:313:VAL:HG12	2.03	0.40
1:g:31:PRO:HB3	4:f7:23:CYS:HB2	2.03	0.40
2:a:53:THR:HA	2:a:131:VAL:HA	2.03	0.40
2:a:66:LYS:HA	2:a:102:PHE:CD1	2.54	0.40
2:n:43:TYR:O	8:AE:253:ASP:N	2.54	0.40
2:o:69:LEU:HD23	2:o:69:LEU:HA	1.85	0.40
2:m:66:LYS:HA	2:m:101:LEU:O	2.22	0.40
3:I:46:ARG:HE	3:AM:77:VAL:HG23	1.86	0.40
1:b1:21:PRO:HG3	5:g1:351:TYR:CE2	2.56	0.40
5:k1:291:VAL:HG21	6:m1:107:ASN:HA	2.03	0.40
5:o1:208:THR:O	5:r1:180:LEU:HG	2.22	0.40
5:o1:210:MET:SD	5:o1:239:HIS:ND1	2.94	0.40
6:p1:28:PHE:CD2	6:p1:132:MET:HG3	2.57	0.40
5:r1:309:LEU:H	5:r1:309:LEU:HD23	1.86	0.40
6:u1:94:THR:O	6:u1:97:SER:OG	2.28	0.40
5:g2:178:GLN:HE21	5:r2:202:VAL:HG13	1.85	0.40
5:g2:248:ARG:HH12	5:g2:444:GLN:HG2	1.85	0.40
5:h2:398:THR:CG2	5:h2:402:ALA:HB3	2.51	0.40
6:p2:33:PHE:CD1	6:p2:130:VAL:HG12	2.56	0.40
6:q2:113:ILE:HG21	6:q2:128:ILE:HD12	2.02	0.40
5:r2:373:PRO:HD2	5:r2:375:LEU:HD22	2.03	0.40
6:u2:77:VAL:HG12	6:u2:77:VAL:O	2.21	0.40
7:J3:65:SER:OG	7:J3:199:VAL:N	2.51	0.40
7:N3:27:ILE:O	7:N3:224:ILE:HD12	2.21	0.40
7:O3:80:VAL:HG23	7:O3:153:ASP:O	2.21	0.40
7:S3:185:LYS:HA	7:S3:185:LYS:HD3	1.88	0.40
7:X3:106:GLU:N	7:X3:106:GLU:OE2	2.55	0.40
7:c3:62:ASP:OD1	7:c3:62:ASP:N	2.54	0.40
7:c3:154:PRO:HG2	7:c3:156:THR:HG22	2.02	0.40
7:g3:88:LEU:HG	7:g3:123:PHE:CD1	2.57	0.40
7:h3:205:ARG:CB	7:i3:107:LEU:HD12	2.51	0.40
7:j3:156:THR:HG23	7:j3:157:SER:N	2.35	0.40
7:l3:75:PHE:HB2	7:l3:164:PHE:CZ	2.56	0.40
7:m3:56:LYS:HE3	7:m3:56:LYS:HB2	1.89	0.40
7:n3:59:PHE:HD1	7:n3:202:LEU:HD11	1.86	0.40
7:o3:154:PRO:O	7:o3:155:THR:HG22	2.21	0.40
7:w3:156:THR:HG23	7:w3:157:SER:N	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:w3:206:GLN:OE1	7:w3:207:VAL:N	2.54	0.40
7:x3:174:ARG:CZ	7:x3:187:VAL:HG21	2.52	0.40
7:63:72:SER:OG	7:63:73:ASN:N	2.53	0.40
7:93:9:ARG:HH22	7:03:230:GLY:HA2	1.86	0.40
7:G3:75:PHE:CE2	7:G3:77:ARG:HG3	2.57	0.40
1:e5:5:ASN:ND2	6:u5:4:ASN:HD22	2.19	0.40
5:g5:334:PRO:HD3	5:g5:460:ARG:HH21	1.86	0.40
6:v5:41:LEU:HD12	6:v5:122:ASN:HB3	2.03	0.40
4:f6:23:CYS:SG	4:f6:24:ARG:N	2.95	0.40
5:g6:250:VAL:HG12	5:g6:444:GLN:HA	2.04	0.40
5:g6:264:ASP:OD2	5:g6:267:SER:OG	2.30	0.40
5:h6:266:LEU:O	5:h6:270:ILE:HG12	2.21	0.40
5:k6:342:SER:OG	5:k6:380:ILE:HG12	2.21	0.40
5:n6:251:PHE:CD1	5:n6:269:MET:HG2	2.56	0.40
5:n6:347:ASN:ND2	5:n6:392:GLY:O	2.55	0.40
6:s6:50:PHE:CE1	6:s6:67:ARG:HG2	2.57	0.40
6:t6:52:HIS:HB2	6:t6:110:TRP:CD1	2.57	0.40
6:v6:9:PHE:CE1	6:v6:133:LYS:HG3	2.56	0.40
5:g7:417:THR:HG23	5:g7:458:HIS:HD1	1.85	0.40
5:h7:344:MET:HB3	5:h7:410:ALA:HB2	2.04	0.40
6:l7:10:PRO:HA	6:m7:34:THR:HG21	2.02	0.40
8:AA:99:GLN:NE2	8:AB:83:GLN:HB3	2.36	0.40
8:AA:129:PHE:HB2	8:AA:194:PHE:CD2	2.56	0.40
8:AA:384:ALA:HB1	8:AB:389:THR:HG21	2.03	0.40
8:AB:385:ASP:O	8:AB:389:THR:HG22	2.21	0.40
8:AC:293:LEU:HG	8:AC:293:LEU:O	2.21	0.40
8:AC:297:HIS:CE1	8:AC:299:LYS:HB2	2.55	0.40
8:AD:97:LEU:HA	8:AD:100:ILE:HG22	2.02	0.40
8:AE:29:ARG:O	8:AE:31:PHE:N	2.54	0.40
8:AE:68:VAL:HG11	8:AE:118:ALA:CB	2.51	0.40
8:AE:285:LYS:HE3	8:AE:285:LYS:HB3	1.87	0.40
8:AF:98:GLN:CG	8:AG:80:GLN:HE21	2.28	0.40
8:AF:130:LYS:O	8:AF:142:ILE:HD12	2.21	0.40
8:AF:140:ASN:HD22	8:AG:18:PRO:HG3	1.86	0.40
8:AF:255:GLN:HA	8:AF:258:GLU:HG3	2.02	0.40
8:AK:28:ARG:O	8:AK:29:ARG:HD2	2.21	0.40
8:AL:339:LYS:NZ	8:AL:378:ALA:HB1	2.36	0.40
3:AP:49:GLN:HG3	3:AN:76:SER:HB2	2.03	0.40
9:AS:40:ASP:OD2	9:AS:41:ASP:N	2.55	0.40
10:AV:64:MET:HE3	10:AV:64:MET:HB3	1.97	0.40
3:AO:37:ALA:HB2	3:AO:67:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AO:81:VAL:HB	3:AO:93:PHE:HB2	2.03	0.40
10:AY:47:ASN:HB2	10:Ab:105:VAL:HA	2.03	0.40
1:e:8:PRO:HA	6:m2:97:SER:OG	2.21	0.40
2:a:43:TYR:CD2	2:a:44:THR:N	2.90	0.40
2:a:144:ILE:HG23	2:a:148:ILE:HD12	2.03	0.40
2:b:183:ASN:HD22	2:k:187:ILE:C	2.28	0.40
2:n:113:THR:HG22	5:h1:236:ASN:ND2	2.36	0.40
2:o:47:SER:OG	2:o:134:ARG:N	2.40	0.40
2:o:163:VAL:HG23	2:o:164:MET:H	1.85	0.40
4:f1:15:LEU:HG	5:h1:306:PHE:HB3	2.03	0.40
5:g1:334:PRO:HD3	5:g1:460:ARG:NH1	2.36	0.40
5:g1:391:GLU:H	5:g1:391:GLU:CD	2.29	0.40
5:h1:427:MET:HA	5:h1:446:GLY:O	2.22	0.40
6:p1:62:PRO:HG3	6:p1:110:TRP:CE2	2.56	0.40
6:q1:20:SER:OG	6:q1:21:PHE:N	2.54	0.40
5:r1:228:ASP:OD1	5:r1:228:ASP:N	2.54	0.40
5:r1:424:LYS:HE3	5:r1:425:ARG:HB2	2.04	0.40
1:b2:4:LEU:HD23	1:b2:4:LEU:HA	1.88	0.40
1:d2:13:PRO:HB2	5:n2:305:VAL:HG12	2.03	0.40
5:k2:346:GLN:HA	5:k2:382:ILE:HD11	2.03	0.40
6:m2:37:THR:HA	6:m2:126:VAL:HA	2.02	0.40
6:u2:74:CYS:SG	6:u2:75:ASP:N	2.94	0.40
7:J3:90:ASP:OD1	7:J3:90:ASP:N	2.53	0.40
7:J3:156:THR:OG1	7:J3:157:SER:N	2.54	0.40
7:L3:79:LYS:HE3	7:L3:155:THR:HA	2.03	0.40
7:O3:139:PHE:HD2	7:O3:141:ILE:HG13	1.87	0.40
7:Q3:38:MET:SD	7:Q3:185:LYS:HE2	2.61	0.40
7:S3:178:ASP:OD2	7:S3:181:THR:HG22	2.21	0.40
7:W3:206:GLN:OE1	7:W3:207:VAL:N	2.54	0.40
7:Y3:34:VAL:HB	7:m3:217:VAL:H	1.86	0.40
7:a3:144:ASN:O	7:a3:145:ILE:HD13	2.21	0.40
7:d3:88:LEU:N	7:d3:121:GLY:O	2.52	0.40
7:d3:138:TRP:CZ3	7:d3:147:GLU:HB3	2.55	0.40
7:f3:154:PRO:HD3	7:f3:159:LEU:HD21	2.02	0.40
7:f3:210:ASP:O	7:f3:211:CYS:C	2.64	0.40
7:g3:138:TRP:CE3	7:g3:147:GLU:HB3	2.56	0.40
7:h3:208:ALA:HB3	7:h3:216:PHE:HB2	2.02	0.40
7:r3:138:TRP:CE3	7:r3:147:GLU:HB3	2.56	0.40
7:r3:156:THR:HG23	7:r3:157:SER:N	2.34	0.40
7:t3:87:THR:O	7:t3:88:LEU:HD23	2.21	0.40
7:73:207:VAL:HB	7:73:215:GLU:OE2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:03:56:LYS:NZ	7:03:215:GLU:OE1	2.34	0.40
7:A3:209:ILE:HG13	7:A3:214:ASN:O	2.21	0.40
7:D3:135:ASP:OD1	7:D3:136:ARG:N	2.55	0.40
7:G3:98:GLU:OE1	7:G3:98:GLU:N	2.54	0.40
5:g5:352:LEU:HA	5:g5:355:MET:HE3	2.03	0.40
5:h5:334:PRO:HG2	5:h5:337:TYR:CD2	2.55	0.40
5:k5:204:ARG:HD2	5:n5:178:GLN:H	1.86	0.40
5:n5:231:PHE:CZ	6:q5:75:ASP:HB2	2.56	0.40
6:p5:94:THR:O	6:p5:96:ASP:N	2.47	0.40
5:r5:313:VAL:HG21	5:r5:398:THR:HB	2.03	0.40
6:u5:43:ALA:H	6:u5:122:ASN:ND2	2.19	0.40
1:a6:6:CYS:HB3	6:l6:98:PHE:O	2.21	0.40
4:f6:18:PRO:HB3	5:k6:351:TYR:CZ	2.56	0.40
5:h6:203:SER:HB3	5:k6:178:GLN:HG3	2.03	0.40
5:h6:281:ARG:O	5:h6:285:LEU:HD23	2.22	0.40
5:k6:432:TYR:HD2	5:k6:442:LYS:NZ	2.19	0.40
6:m6:94:THR:HA	6:m6:95:PRO:HD3	1.92	0.40
5:o6:404:ALA:HB3	5:o6:407:SER:OG	2.21	0.40
6:t6:62:PRO:HA	6:t6:110:TRP:HZ2	1.86	0.40
8:AA:83:GLN:HB3	8:AL:99:GLN:NE2	2.36	0.40
8:AC:46:MET:O	8:AC:50:ARG:HG3	2.21	0.40
8:AC:316:PRO:HB2	8:AC:319:LEU:HD13	2.04	0.40
8:AD:16:PRO:HB2	8:AD:17:ALA:H	1.75	0.40
8:AD:133:VAL:HA	8:AD:139:VAL:HA	2.03	0.40
8:AF:277:ILE:HB	8:AG:244:LEU:HD13	2.03	0.40
8:AG:194:PHE:HZ	8:AG:362:LEU:HD21	1.85	0.40
8:AH:105:ASN:HD21	8:AI:205:MET:HE1	1.86	0.40
8:AI:372:ASP:O	8:AI:375:SER:OG	2.32	0.40
8:AK:369:VAL:O	8:AK:370:ILE:HD13	2.21	0.40
8:AL:201:ILE:HG22	8:AL:202:ASN:N	2.36	0.40
3:AM:102:ASP:HB3	3:AM:104:CYS:SG	2.61	0.40
9:AQ:128:THR:H	10:AZ:6:GLN:HE22	1.69	0.40
10:AZ:25:ILE:O	10:AZ:27:PRO:HD3	2.22	0.40
10:AZ:64:MET:HE1	10:AZ:66:LEU:HB2	2.03	0.40
10:AV:129:PRO:HA	10:AV:130:PRO:HD2	1.92	0.40
1:d:23:CYS:HB3	1:b6:26:CYS:HB3	1.60	0.40
2:a:140:VAL:O	2:a:140:VAL:HG23	2.21	0.40
2:l:38:GLU:OE2	2:m:197:TYR:OH	2.39	0.40
2:l:144:ILE:HD11	2:l:197:TYR:HB3	2.04	0.40
2:o:188:SER:HA	2:h:182:ASN:HD21	1.85	0.40
2:p:198:ARG:O	8:AL:255:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:66:LYS:HB2	8:AG:271:ASP:OD2	2.21	0.40
2:m:185:ALA:O	2:m:191:GLN:N	2.54	0.40
5:h1:246:ASP:OD1	5:h1:246:ASP:N	2.55	0.40
5:h1:409:VAL:CG2	5:h1:462:LEU:HB3	2.52	0.40
5:o1:364:PHE:CE1	5:r1:369:LEU:HG	2.57	0.40
5:r1:341:ARG:HA	5:r1:379:ARG:HB3	2.03	0.40
5:h2:327:ARG:O	5:h2:331:THR:HG22	2.21	0.40
5:o2:321:PHE:CE1	5:o2:462:LEU:HD21	2.55	0.40
6:q2:79:LEU:H	6:q2:79:LEU:HD23	1.87	0.40
7:K3:15:SER:O	7:K3:18:VAL:HG12	2.22	0.40
7:R3:80:VAL:HG23	7:R3:153:ASP:O	2.20	0.40
7:R3:187:VAL:O	7:R3:188:LEU:HD23	2.21	0.40
7:V3:172:ALA:O	7:V3:175:ARG:NH1	2.41	0.40
7:g3:217:VAL:H	7:h3:34:VAL:HB	1.87	0.40
7:h3:133:GLY:H	7:h3:152:VAL:HG23	1.86	0.40
7:j3:74:ALA:HB2	7:j3:91:LEU:HD11	2.01	0.40
7:o3:55:ASN:C	7:o3:56:LYS:HD2	2.47	0.40
7:p3:217:VAL:H	7:q3:34:VAL:HB	1.87	0.40
7:u3:30:ARG:HD2	7:u3:230:GLY:H	1.86	0.40
7:u3:51:HIS:HD2	7:u3:211:CYS:HA	1.82	0.40
7:v3:46:ALA:HB3	7:v3:47:PRO:HD3	2.03	0.40
7:33:9:ARG:NH2	7:43:230:GLY:HA2	2.32	0.40
7:43:207:VAL:HG12	7:43:217:VAL:HG22	2.04	0.40
7:53:44:TRP:CZ2	7:53:218:HIS:HB2	2.56	0.40
7:53:209:ILE:HG13	7:53:214:ASN:O	2.22	0.40
7:03:181:THR:HG23	7:03:183:VAL:HG12	2.04	0.40
7:A3:78:THR:HB	7:A3:84:PHE:HD2	1.86	0.40
7:C3:149:VAL:HG11	7:C3:162:PRO:HG3	2.03	0.40
7:C3:210:ASP:OD2	7:C3:214:ASN:ND2	2.36	0.40
7:G3:2:TYR:CZ	7:G3:27:ILE:HG23	2.57	0.40
1:d5:30:ALA:HB3	1:d5:31:PRO:HD3	2.03	0.40
4:f5:15:LEU:O	4:f5:15:LEU:HD23	2.21	0.40
5:g5:361:ARG:HB3	5:h5:361:ARG:HH21	1.85	0.40
5:o5:247:TYR:CZ	5:o5:277:HIS:HB2	2.57	0.40
1:b6:4:LEU:HA	6:s6:100:ALA:O	2.21	0.40
5:o6:185:ASP:OD1	5:o6:185:ASP:N	2.52	0.40
6:p6:103:VAL:HG22	6:p6:105:CYS:H	1.86	0.40
6:q6:78:LEU:H	6:q6:78:LEU:HD23	1.87	0.40
5:r6:398:THR:OG1	5:r6:399:GLY:N	2.54	0.40
6:u6:9:PHE:CD1	6:u6:133:LYS:HA	2.56	0.40
6:v6:106:MET:N	6:v6:106:MET:SD	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h7:303:PHE:CD2	5:h7:456:CYS:HB2	2.55	0.40
5:k7:326:TRP:O	5:k7:330:VAL:HG13	2.22	0.40
5:k7:351:TYR:HE2	5:k7:396:GLY:HA2	1.86	0.40
5:n7:403:PHE:HB3	5:n7:464:ILE:HD13	2.04	0.40
6:q7:42:THR:OG1	6:q7:43:ALA:N	2.53	0.40
6:q7:62:PRO:HD3	6:q7:110:TRP:CH2	2.57	0.40
6:s7:33:PHE:CD1	6:s7:130:VAL:HG12	2.56	0.40
8:AA:18:PRO:O	8:AA:20:ALA:N	2.55	0.40
8:AA:297:HIS:CE1	8:AA:299:LYS:HB2	2.53	0.40
8:AB:39:VAL:HG22	8:AB:126:ARG:HE	1.86	0.40
8:AB:66:LEU:HD21	8:AC:344:ASP:O	2.22	0.40
8:AB:219:VAL:HB	8:AB:220:PRO:HD3	2.04	0.40
8:AC:64:LEU:HD21	8:AC:315:ILE:HD11	2.02	0.40
8:AC:289:MET:HE2	8:AC:289:MET:HA	2.04	0.40
8:AC:350:TYR:C	8:AC:353:PRO:HD2	2.46	0.40
8:AD:297:HIS:NE2	8:AE:304:ASP:OD1	2.54	0.40
8:AE:217:ILE:O	8:AE:221:VAL:HG22	2.21	0.40
8:AF:45:VAL:HG12	8:AF:46:MET:HE2	2.03	0.40
8:AG:99:GLN:NE2	8:AH:83:GLN:HB3	2.36	0.40
8:AH:25:ILE:O	8:AH:28:ARG:NE	2.54	0.40
8:AH:89:MET:HG2	8:AH:187:ARG:NH1	2.37	0.40
8:AJ:307:ARG:HG2	8:AJ:317:ILE:HD13	2.04	0.40
8:AK:113:LEU:HD22	8:AK:129:PHE:HE1	1.86	0.40
3:AM:79:ALA:HB3	3:AM:95:VAL:HG21	2.04	0.40
3:AM:104:CYS:HB2	3:AM:106:ARG:HG3	2.02	0.40
10:AU:5:LYS:O	10:AZ:113:ARG:NH2	2.55	0.40
10:AU:69:VAL:HG21	9:AW:73:THR:HG21	2.03	0.40
3:AP:47:PHE:HD2	3:AN:75:VAL:O	2.05	0.40
9:AW:63:SER:OG	9:AW:77:ARG:HB2	2.21	0.40
10:Ab:84:GLN:NE2	10:Ab:101:GLU:HB2	2.36	0.40
2:n:113:THR:HG22	5:h1:236:ASN:HD21	1.85	0.40
2:p:7:LEU:HD11	2:p:145:ILE:HG23	2.04	0.40
2:q:187:ILE:HA	2:m:182:ASN:HD21	1.86	0.40
2:h:129:THR:HG21	7:X3:43:ALA:HA	2.04	0.40
5:h1:204:ARG:HA	5:h1:424:LYS:HE2	2.03	0.40
5:h1:303:PHE:CE1	5:h1:459:GLY:HA3	2.57	0.40
5:o1:377:ARG:HA	5:o1:377:ARG:NE	2.37	0.40
6:u1:28:PHE:HA	6:u1:134:GLY:HA2	2.03	0.40
5:g2:389:PRO:HG3	5:g2:408:PHE:O	2.22	0.40
5:k2:304:PRO:HD2	5:k2:459:GLY:O	2.22	0.40
6:l2:10:PRO:HA	6:m2:34:THR:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:q2:110:TRP:O	6:q2:111:ILE:HD13	2.21	0.40
6:s2:47:PHE:HB2	6:s2:87:VAL:CG2	2.51	0.40
7:Z3:174:ARG:CZ	7:Z3:187:VAL:HG21	2.51	0.40
7:e3:205:ARG:CB	7:f3:107:LEU:HD12	2.52	0.40
7:f3:210:ASP:HB3	7:f3:214:ASN:HB2	2.03	0.40
7:i3:72:SER:O	7:i3:91:LEU:HD12	2.22	0.40
7:k3:202:LEU:O	7:k3:222:TYR:N	2.50	0.40
7:l3:138:TRP:CZ3	7:l3:147:GLU:HB3	2.57	0.40
7:y3:79:LYS:HE3	7:y3:155:THR:HA	2.04	0.40
7:33:46:ALA:HB3	7:33:47:PRO:HD3	2.04	0.40
7:33:140:SER:O	7:33:140:SER:OG	2.37	0.40
7:63:44:TRP:CH2	7:63:218:HIS:HB2	2.57	0.40
7:73:138:TRP:CZ3	7:73:147:GLU:HB3	2.57	0.40
7:03:207:VAL:HB	7:03:215:GLU:OE2	2.22	0.40
7:B3:78:THR:HB	7:B3:84:PHE:CD2	2.57	0.40
5:h5:262:ASN:OD1	5:h5:263:TYR:N	2.53	0.40
5:n5:332:SER:O	5:n5:460:ARG:NH1	2.50	0.40
5:o5:374:ASP:O	5:o5:375:LEU:C	2.64	0.40
6:s5:46:THR:HG22	6:s5:88:THR:HB	2.04	0.40
6:u5:51:TYR:HB3	6:u5:68:VAL:HG22	2.03	0.40
6:v5:25:VAL:O	6:v5:25:VAL:HG12	2.22	0.40
6:v5:49:ILE:HG23	6:v5:111:ILE:HD11	2.02	0.40
5:k6:284:ALA:O	5:k6:288:GLY:N	2.55	0.40
5:n6:231:PHE:HB3	5:o6:250:VAL:O	2.22	0.40
5:n6:246:ASP:N	5:n6:246:ASP:OD1	2.55	0.40
5:o6:398:THR:OG1	5:o6:399:GLY:N	2.50	0.40
6:s6:91:GLU:OE2	6:s6:92:THR:N	2.41	0.40
5:k7:236:ASN:O	5:k7:237:ILE:HD13	2.22	0.40
5:k7:329:PHE:O	5:k7:460:ARG:NH2	2.55	0.40
5:r7:196:LEU:HD11	5:r7:341:ARG:HD2	2.03	0.40
6:t7:15:TRP:HB3	6:t7:128:ILE:HD12	2.04	0.40
6:u7:31:PHE:CE2	6:u7:111:ILE:HG13	2.57	0.40
8:AA:151:LYS:HB2	8:AA:164:GLN:HB3	2.04	0.40
8:AB:266:THR:HA	8:AB:273:GLY:HA2	2.03	0.40
8:AC:50:ARG:HD2	8:AC:51:ALA:N	2.36	0.40
8:AC:243:TRP:HE3	8:AC:263:ILE:HD11	1.86	0.40
8:AC:250:ASP:N	8:AC:250:ASP:OD2	2.54	0.40
8:AC:256:ALA:HA	8:AC:259:VAL:HG12	2.04	0.40
8:AD:37:LYS:HA	8:AD:37:LYS:HD2	1.86	0.40
8:AF:75:VAL:H	8:AF:98:GLN:HE22	1.70	0.40
8:AF:282:THR:C	8:AF:284:VAL:H	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:90:SER:C	8:AH:92:SER:H	2.29	0.40
8:AJ:66:LEU:HD22	8:AK:348:PRO:O	2.22	0.40
8:AJ:134:MET:HG2	8:AJ:140:ASN:ND2	2.36	0.40
8:AL:132:SER:HB2	8:AL:143:TRP:HZ3	1.86	0.40
8:AL:372:ASP:HB3	8:AL:374:ASP:OD1	2.22	0.40
10:Aa:4:ASN:HD21	10:AY:113:ARG:HE	1.70	0.40
10:Aa:32:GLN:NE2	10:Aa:36:THR:O	2.55	0.40
10:Aa:52:ASN:N	10:AY:61:ASN:OD1	2.55	0.40
10:AY:95:THR:HA	10:AY:129:PRO:HD3	2.04	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	a1	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	a2	26/38 (68%)	24 (92%)	2 (8%)	0	100	100
1	a5	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	a6	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	a7	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	b1	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	b2	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	b5	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	b6	26/38 (68%)	26 (100%)	0	0	100	100
1	b7	26/38 (68%)	25 (96%)	1 (4%)	0	100	100
1	c	32/38 (84%)	31 (97%)	1 (3%)	0	100	100
1	d	32/38 (84%)	32 (100%)	0	0	100	100
1	d1	32/38 (84%)	26 (81%)	6 (19%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	d2	32/38 (84%)	27 (84%)	5 (16%)	0	100	100
1	d5	32/38 (84%)	29 (91%)	3 (9%)	0	100	100
1	d6	32/38 (84%)	27 (84%)	5 (16%)	0	100	100
1	d7	32/38 (84%)	25 (78%)	7 (22%)	0	100	100
1	e	32/38 (84%)	31 (97%)	1 (3%)	0	100	100
1	e1	26/38 (68%)	21 (81%)	5 (19%)	0	100	100
1	e2	26/38 (68%)	20 (77%)	6 (23%)	0	100	100
1	e5	26/38 (68%)	22 (85%)	4 (15%)	0	100	100
1	e6	26/38 (68%)	19 (73%)	7 (27%)	0	100	100
1	e7	26/38 (68%)	20 (77%)	6 (23%)	0	100	100
1	f	32/38 (84%)	31 (97%)	1 (3%)	0	100	100
1	g	32/38 (84%)	26 (81%)	5 (16%)	1 (3%)	3	22
2	a	172/202 (85%)	128 (74%)	40 (23%)	4 (2%)	5	28
2	b	193/202 (96%)	160 (83%)	30 (16%)	3 (2%)	7	37
2	h	169/202 (84%)	144 (85%)	23 (14%)	2 (1%)	10	43
2	i	191/202 (95%)	162 (85%)	26 (14%)	3 (2%)	7	37
2	j	193/202 (96%)	152 (79%)	40 (21%)	1 (0%)	24	63
2	k	169/202 (84%)	126 (75%)	41 (24%)	2 (1%)	10	43
2	l	169/202 (84%)	146 (86%)	22 (13%)	1 (1%)	21	58
2	m	190/202 (94%)	153 (80%)	35 (18%)	2 (1%)	11	45
2	n	193/202 (96%)	160 (83%)	33 (17%)	0	100	100
2	o	169/202 (84%)	140 (83%)	25 (15%)	4 (2%)	4	27
2	p	169/202 (84%)	143 (85%)	25 (15%)	1 (1%)	21	58
2	q	169/202 (84%)	141 (83%)	24 (14%)	4 (2%)	4	27
3	AM	123/141 (87%)	113 (92%)	9 (7%)	1 (1%)	16	53
3	AN	123/141 (87%)	115 (94%)	7 (6%)	1 (1%)	16	53
3	AO	123/141 (87%)	114 (93%)	7 (6%)	2 (2%)	7	37
3	AP	123/141 (87%)	114 (93%)	8 (6%)	1 (1%)	16	53
3	H	123/141 (87%)	115 (94%)	8 (6%)	0	100	100
3	I	123/141 (87%)	116 (94%)	6 (5%)	1 (1%)	16	53
4	f1	18/217 (8%)	16 (89%)	2 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	f2	18/217 (8%)	14 (78%)	4 (22%)	0	100	100
4	f5	18/217 (8%)	13 (72%)	5 (28%)	0	100	100
4	f6	18/217 (8%)	15 (83%)	3 (17%)	0	100	100
4	f7	18/217 (8%)	15 (83%)	3 (17%)	0	100	100
5	g1	289/465 (62%)	256 (89%)	33 (11%)	0	100	100
5	g2	289/465 (62%)	255 (88%)	34 (12%)	0	100	100
5	g5	289/465 (62%)	255 (88%)	34 (12%)	0	100	100
5	g6	289/465 (62%)	257 (89%)	32 (11%)	0	100	100
5	g7	289/465 (62%)	258 (89%)	31 (11%)	0	100	100
5	h1	289/465 (62%)	240 (83%)	48 (17%)	1 (0%)	36	71
5	h2	289/465 (62%)	248 (86%)	41 (14%)	0	100	100
5	h5	289/465 (62%)	246 (85%)	42 (14%)	1 (0%)	36	71
5	h6	289/465 (62%)	242 (84%)	47 (16%)	0	100	100
5	h7	289/465 (62%)	248 (86%)	41 (14%)	0	100	100
5	k1	286/465 (62%)	263 (92%)	23 (8%)	0	100	100
5	k2	286/465 (62%)	257 (90%)	29 (10%)	0	100	100
5	k5	286/465 (62%)	261 (91%)	25 (9%)	0	100	100
5	k6	286/465 (62%)	257 (90%)	28 (10%)	1 (0%)	36	71
5	k7	286/465 (62%)	258 (90%)	28 (10%)	0	100	100
5	n1	289/465 (62%)	254 (88%)	34 (12%)	1 (0%)	36	71
5	n2	289/465 (62%)	248 (86%)	39 (14%)	2 (1%)	18	55
5	n5	289/465 (62%)	248 (86%)	41 (14%)	0	100	100
5	n6	289/465 (62%)	254 (88%)	35 (12%)	0	100	100
5	n7	289/465 (62%)	255 (88%)	34 (12%)	0	100	100
5	o1	289/465 (62%)	249 (86%)	38 (13%)	2 (1%)	18	55
5	o2	289/465 (62%)	249 (86%)	37 (13%)	3 (1%)	12	47
5	o5	289/465 (62%)	250 (86%)	37 (13%)	2 (1%)	18	55
5	o6	289/465 (62%)	250 (86%)	37 (13%)	2 (1%)	18	55
5	o7	289/465 (62%)	248 (86%)	38 (13%)	3 (1%)	12	47
5	r1	289/465 (62%)	262 (91%)	27 (9%)	0	100	100
5	r2	289/465 (62%)	261 (90%)	28 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	r5	289/465 (62%)	259 (90%)	30 (10%)	0	100	100
5	r6	289/465 (62%)	261 (90%)	28 (10%)	0	100	100
5	r7	289/465 (62%)	262 (91%)	27 (9%)	0	100	100
6	l1	135/137 (98%)	123 (91%)	12 (9%)	0	100	100
6	l2	135/137 (98%)	118 (87%)	17 (13%)	0	100	100
6	l5	135/137 (98%)	118 (87%)	15 (11%)	2 (2%)	8	38
6	l6	135/137 (98%)	122 (90%)	13 (10%)	0	100	100
6	l7	135/137 (98%)	122 (90%)	12 (9%)	1 (1%)	18	55
6	m1	135/137 (98%)	122 (90%)	13 (10%)	0	100	100
6	m2	135/137 (98%)	121 (90%)	14 (10%)	0	100	100
6	m5	135/137 (98%)	122 (90%)	13 (10%)	0	100	100
6	m6	135/137 (98%)	123 (91%)	12 (9%)	0	100	100
6	m7	135/137 (98%)	124 (92%)	11 (8%)	0	100	100
6	p1	135/137 (98%)	119 (88%)	16 (12%)	0	100	100
6	p2	135/137 (98%)	114 (84%)	20 (15%)	1 (1%)	18	55
6	p5	135/137 (98%)	115 (85%)	20 (15%)	0	100	100
6	p6	135/137 (98%)	115 (85%)	20 (15%)	0	100	100
6	p7	135/137 (98%)	116 (86%)	19 (14%)	0	100	100
6	q1	135/137 (98%)	123 (91%)	12 (9%)	0	100	100
6	q2	135/137 (98%)	124 (92%)	11 (8%)	0	100	100
6	q5	135/137 (98%)	121 (90%)	14 (10%)	0	100	100
6	q6	135/137 (98%)	119 (88%)	16 (12%)	0	100	100
6	q7	135/137 (98%)	124 (92%)	11 (8%)	0	100	100
6	s1	135/137 (98%)	127 (94%)	8 (6%)	0	100	100
6	s2	135/137 (98%)	126 (93%)	9 (7%)	0	100	100
6	s5	135/137 (98%)	129 (96%)	6 (4%)	0	100	100
6	s6	135/137 (98%)	126 (93%)	9 (7%)	0	100	100
6	s7	135/137 (98%)	127 (94%)	8 (6%)	0	100	100
6	t1	135/137 (98%)	121 (90%)	14 (10%)	0	100	100
6	t2	135/137 (98%)	125 (93%)	10 (7%)	0	100	100
6	t5	135/137 (98%)	122 (90%)	13 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	t6	135/137 (98%)	124 (92%)	11 (8%)	0	100	100
6	t7	135/137 (98%)	123 (91%)	12 (9%)	0	100	100
6	u1	134/137 (98%)	116 (87%)	18 (13%)	0	100	100
6	u2	134/137 (98%)	121 (90%)	13 (10%)	0	100	100
6	u5	134/137 (98%)	121 (90%)	13 (10%)	0	100	100
6	u6	134/137 (98%)	121 (90%)	13 (10%)	0	100	100
6	u7	134/137 (98%)	121 (90%)	13 (10%)	0	100	100
6	v1	134/137 (98%)	117 (87%)	16 (12%)	1 (1%)	18	55
6	v2	134/137 (98%)	114 (85%)	20 (15%)	0	100	100
6	v5	134/137 (98%)	117 (87%)	17 (13%)	0	100	100
6	v6	134/137 (98%)	113 (84%)	21 (16%)	0	100	100
6	v7	134/137 (98%)	114 (85%)	20 (15%)	0	100	100
7	03	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	13	219/230 (95%)	201 (92%)	18 (8%)	0	100	100
7	23	219/230 (95%)	199 (91%)	20 (9%)	0	100	100
7	33	219/230 (95%)	207 (94%)	12 (6%)	0	100	100
7	43	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	53	219/230 (95%)	204 (93%)	14 (6%)	1 (0%)	24	63
7	63	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	73	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	83	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	93	219/230 (95%)	208 (95%)	11 (5%)	0	100	100
7	A3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	B3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	C3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	D3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	E3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	F3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	G3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	J3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	K3	228/230 (99%)	212 (93%)	15 (7%)	1 (0%)	30	67

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	L3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	M3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	N3	228/230 (99%)	210 (92%)	18 (8%)	0	100	100
7	O3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	P3	218/230 (95%)	207 (95%)	11 (5%)	0	100	100
7	Q3	228/230 (99%)	212 (93%)	14 (6%)	2 (1%)	14	49
7	R3	219/230 (95%)	201 (92%)	18 (8%)	0	100	100
7	S3	218/230 (95%)	205 (94%)	13 (6%)	0	100	100
7	T3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	U3	217/230 (94%)	200 (92%)	17 (8%)	0	100	100
7	V3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	W3	228/230 (99%)	205 (90%)	22 (10%)	1 (0%)	30	67
7	X3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	Y3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	Z3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	a3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	b3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	c3	219/230 (95%)	200 (91%)	19 (9%)	0	100	100
7	d3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	e3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	f3	219/230 (95%)	200 (91%)	16 (7%)	3 (1%)	9	39
7	g3	219/230 (95%)	205 (94%)	12 (6%)	2 (1%)	14	49
7	h3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	i3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	j3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	k3	219/230 (95%)	207 (94%)	12 (6%)	0	100	100
7	l3	219/230 (95%)	201 (92%)	18 (8%)	0	100	100
7	m3	219/230 (95%)	204 (93%)	15 (7%)	0	100	100
7	n3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	o3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	p3	219/230 (95%)	201 (92%)	18 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	q3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
7	r3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	s3	219/230 (95%)	203 (93%)	16 (7%)	0	100	100
7	t3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	u3	219/230 (95%)	207 (94%)	12 (6%)	0	100	100
7	v3	219/230 (95%)	201 (92%)	18 (8%)	0	100	100
7	w3	219/230 (95%)	202 (92%)	17 (8%)	0	100	100
7	x3	219/230 (95%)	205 (94%)	14 (6%)	0	100	100
7	y3	219/230 (95%)	199 (91%)	20 (9%)	0	100	100
7	z3	219/230 (95%)	206 (94%)	13 (6%)	0	100	100
8	AA	377/420 (90%)	326 (86%)	50 (13%)	1 (0%)	36	71
8	AB	377/420 (90%)	333 (88%)	44 (12%)	0	100	100
8	AC	377/420 (90%)	332 (88%)	43 (11%)	2 (0%)	24	63
8	AD	377/420 (90%)	334 (89%)	43 (11%)	0	100	100
8	AE	377/420 (90%)	322 (85%)	54 (14%)	1 (0%)	36	71
8	AF	377/420 (90%)	336 (89%)	40 (11%)	1 (0%)	36	71
8	AG	377/420 (90%)	335 (89%)	42 (11%)	0	100	100
8	AH	377/420 (90%)	334 (89%)	43 (11%)	0	100	100
8	AI	377/420 (90%)	330 (88%)	47 (12%)	0	100	100
8	AJ	377/420 (90%)	331 (88%)	46 (12%)	0	100	100
8	AK	377/420 (90%)	327 (87%)	50 (13%)	0	100	100
8	AL	377/420 (90%)	335 (89%)	42 (11%)	0	100	100
9	AQ	153/178 (86%)	139 (91%)	13 (8%)	1 (1%)	18	55
9	AR	153/178 (86%)	142 (93%)	11 (7%)	0	100	100
9	AS	153/178 (86%)	141 (92%)	10 (6%)	2 (1%)	9	41
9	AT	153/178 (86%)	141 (92%)	12 (8%)	0	100	100
9	AW	153/178 (86%)	143 (94%)	9 (6%)	1 (1%)	18	55
9	AX	153/178 (86%)	141 (92%)	11 (7%)	1 (1%)	18	55
10	AU	126/136 (93%)	115 (91%)	9 (7%)	2 (2%)	7	37
10	AV	126/136 (93%)	115 (91%)	9 (7%)	2 (2%)	7	37
10	AY	126/136 (93%)	114 (90%)	12 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	AZ	126/136 (93%)	115 (91%)	10 (8%)	1 (1%)	16	53
10	Aa	126/136 (93%)	121 (96%)	5 (4%)	0	100	100
10	Ab	126/136 (93%)	118 (94%)	8 (6%)	0	100	100
All	All	37099/45459 (82%)	33364 (90%)	3653 (10%)	82 (0%)	44	77

All (82) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	o	50	PRO
7	f3	54	THR
10	AZ	29	SER
3	AN	49	GLN
3	AO	50	ASP
2	a	45	GLY
2	a	46	LEU
2	h	74	ILE
2	k	139	SER
2	m	74	ILE
6	v1	74	CYS
7	W3	23	CYS
7	f3	49	ARG
7	f3	51	HIS
7	g3	23	CYS
5	h5	190	CYS
6	l5	56	ASP
6	l7	74	CYS
3	AO	49	GLN
9	AX	94	ARG
2	a	136	CYS
2	b	74	ILE
2	b	139	SER
2	q	63	ARG
2	i	137	GLU
2	i	138	ASN
3	I	49	GLN
5	n1	301	ASN
5	o1	189	GLU
5	o2	189	GLU
6	p2	78	LEU
5	o6	189	GLU
8	AE	271	ASP

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Mol	Chain	Res	Type
3	AP	48	SER
9	AS	94	ARG
10	AV	129	PRO
9	AW	94	ARG
2	a	141	PRO
2	b	51	GLU
2	q	61	LYS
2	q	62	GLY
2	m	73	PRO
5	o1	373	PRO
5	n2	304	PRO
5	o2	224	ASP
5	o2	373	PRO
7	Q3	18	VAL
7	g3	22	CYS
7	53	23	CYS
6	l5	59	PRO
5	o5	191	ALA
5	o7	191	ALA
5	o7	373	PRO
8	AC	17	ALA
8	AF	283	ASP
3	AM	49	GLN
2	l	87	GLY
2	o	49	THR
2	h	138	ASN
5	h1	191	ALA
5	n2	456	CYS
7	K3	16	GLY
5	o5	373	PRO
5	k6	359	ASN
5	o6	373	PRO
5	o7	224	ASP
8	AA	19	SER
8	AC	19	SER
10	AU	129	PRO
10	AV	128	LEU
2	o	141	PRO
2	p	74	ILE
7	Q3	17	ASP
10	AU	128	LEU
9	AS	50	LEU

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Mol	Chain	Res	Type
2	o	74	ILE
1	g	8	PRO
2	k	74	ILE
9	AQ	51	PRO
2	q	74	ILE
2	i	74	ILE
2	j	74	ILE

5.3.2 Protein sidechains ⓘ

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	a1	25/32 (78%)	25 (100%)	0	100	100
1	a2	25/32 (78%)	25 (100%)	0	100	100
1	a5	25/32 (78%)	25 (100%)	0	100	100
1	a6	25/32 (78%)	24 (96%)	1 (4%)	28	49
1	a7	25/32 (78%)	25 (100%)	0	100	100
1	b1	25/32 (78%)	25 (100%)	0	100	100
1	b2	25/32 (78%)	24 (96%)	1 (4%)	28	49
1	b5	25/32 (78%)	25 (100%)	0	100	100
1	b6	25/32 (78%)	25 (100%)	0	100	100
1	b7	25/32 (78%)	25 (100%)	0	100	100
1	c	29/32 (91%)	29 (100%)	0	100	100
1	d	29/32 (91%)	29 (100%)	0	100	100
1	d1	29/32 (91%)	29 (100%)	0	100	100
1	d2	29/32 (91%)	29 (100%)	0	100	100
1	d5	29/32 (91%)	28 (97%)	1 (3%)	32	54
1	d6	29/32 (91%)	27 (93%)	2 (7%)	14	36
1	d7	29/32 (91%)	28 (97%)	1 (3%)	32	54
1	e	29/32 (91%)	29 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	e1	25/32 (78%)	25 (100%)	0	100	100
1	e2	25/32 (78%)	25 (100%)	0	100	100
1	e5	25/32 (78%)	24 (96%)	1 (4%)	28	49
1	e6	25/32 (78%)	24 (96%)	1 (4%)	28	49
1	e7	25/32 (78%)	24 (96%)	1 (4%)	28	49
1	f	29/32 (91%)	28 (97%)	1 (3%)	32	54
1	g	29/32 (91%)	25 (86%)	4 (14%)	3	15
2	a	144/168 (86%)	140 (97%)	4 (3%)	38	59
2	b	161/168 (96%)	161 (100%)	0	100	100
2	h	141/168 (84%)	136 (96%)	5 (4%)	32	53
2	i	159/168 (95%)	158 (99%)	1 (1%)	78	80
2	j	161/168 (96%)	161 (100%)	0	100	100
2	k	141/168 (84%)	139 (99%)	2 (1%)	59	71
2	l	141/168 (84%)	140 (99%)	1 (1%)	76	79
2	m	158/168 (94%)	157 (99%)	1 (1%)	78	80
2	n	161/168 (96%)	160 (99%)	1 (1%)	78	80
2	o	141/168 (84%)	139 (99%)	2 (1%)	59	71
2	p	141/168 (84%)	141 (100%)	0	100	100
2	q	141/168 (84%)	138 (98%)	3 (2%)	47	65
3	AM	114/128 (89%)	113 (99%)	1 (1%)	70	76
3	AN	114/128 (89%)	114 (100%)	0	100	100
3	AO	114/128 (89%)	112 (98%)	2 (2%)	51	67
3	AP	114/128 (89%)	113 (99%)	1 (1%)	70	76
3	H	114/128 (89%)	113 (99%)	1 (1%)	70	76
3	I	114/128 (89%)	114 (100%)	0	100	100
4	f1	15/175 (9%)	15 (100%)	0	100	100
4	f2	15/175 (9%)	15 (100%)	0	100	100
4	f5	15/175 (9%)	15 (100%)	0	100	100
4	f6	15/175 (9%)	15 (100%)	0	100	100
4	f7	15/175 (9%)	15 (100%)	0	100	100
5	g1	235/379 (62%)	235 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	g2	235/379 (62%)	232 (99%)	3 (1%)	61	72
5	g5	235/379 (62%)	235 (100%)	0	100	100
5	g6	235/379 (62%)	235 (100%)	0	100	100
5	g7	235/379 (62%)	235 (100%)	0	100	100
5	h1	235/379 (62%)	228 (97%)	7 (3%)	36	57
5	h2	235/379 (62%)	235 (100%)	0	100	100
5	h5	235/379 (62%)	235 (100%)	0	100	100
5	h6	235/379 (62%)	235 (100%)	0	100	100
5	h7	235/379 (62%)	235 (100%)	0	100	100
5	k1	232/379 (61%)	232 (100%)	0	100	100
5	k2	232/379 (61%)	232 (100%)	0	100	100
5	k5	232/379 (61%)	232 (100%)	0	100	100
5	k6	232/379 (61%)	231 (100%)	1 (0%)	84	82
5	k7	232/379 (61%)	231 (100%)	1 (0%)	84	82
5	n1	235/379 (62%)	234 (100%)	1 (0%)	84	82
5	n2	235/379 (62%)	231 (98%)	4 (2%)	53	67
5	n5	235/379 (62%)	234 (100%)	1 (0%)	84	82
5	n6	235/379 (62%)	235 (100%)	0	100	100
5	n7	235/379 (62%)	235 (100%)	0	100	100
5	o1	235/379 (62%)	233 (99%)	2 (1%)	70	76
5	o2	235/379 (62%)	235 (100%)	0	100	100
5	o5	235/379 (62%)	232 (99%)	3 (1%)	61	72
5	o6	235/379 (62%)	235 (100%)	0	100	100
5	o7	235/379 (62%)	234 (100%)	1 (0%)	84	82
5	r1	235/379 (62%)	235 (100%)	0	100	100
5	r2	235/379 (62%)	234 (100%)	1 (0%)	84	82
5	r5	235/379 (62%)	235 (100%)	0	100	100
5	r6	235/379 (62%)	235 (100%)	0	100	100
5	r7	235/379 (62%)	233 (99%)	2 (1%)	70	76
6	l1	112/112 (100%)	112 (100%)	0	100	100
6	l2	112/112 (100%)	112 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	l5	112/112 (100%)	109 (97%)	3 (3%)	39	59
6	l6	112/112 (100%)	112 (100%)	0	100	100
6	l7	112/112 (100%)	110 (98%)	2 (2%)	51	67
6	m1	112/112 (100%)	112 (100%)	0	100	100
6	m2	112/112 (100%)	112 (100%)	0	100	100
6	m5	112/112 (100%)	112 (100%)	0	100	100
6	m6	112/112 (100%)	112 (100%)	0	100	100
6	m7	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	p1	112/112 (100%)	112 (100%)	0	100	100
6	p2	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	p5	112/112 (100%)	112 (100%)	0	100	100
6	p6	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	p7	112/112 (100%)	110 (98%)	2 (2%)	51	67
6	q1	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	q2	112/112 (100%)	112 (100%)	0	100	100
6	q5	112/112 (100%)	112 (100%)	0	100	100
6	q6	112/112 (100%)	110 (98%)	2 (2%)	51	67
6	q7	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	s1	112/112 (100%)	112 (100%)	0	100	100
6	s2	112/112 (100%)	112 (100%)	0	100	100
6	s5	112/112 (100%)	112 (100%)	0	100	100
6	s6	112/112 (100%)	112 (100%)	0	100	100
6	s7	112/112 (100%)	112 (100%)	0	100	100
6	t1	112/112 (100%)	112 (100%)	0	100	100
6	t2	112/112 (100%)	112 (100%)	0	100	100
6	t5	112/112 (100%)	112 (100%)	0	100	100
6	t6	112/112 (100%)	112 (100%)	0	100	100
6	t7	112/112 (100%)	111 (99%)	1 (1%)	70	76
6	u1	111/112 (99%)	111 (100%)	0	100	100
6	u2	111/112 (99%)	110 (99%)	1 (1%)	70	76
6	u5	111/112 (99%)	111 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	u6	111/112 (99%)	111 (100%)	0	100	100
6	u7	111/112 (99%)	111 (100%)	0	100	100
6	v1	111/112 (99%)	110 (99%)	1 (1%)	70	76
6	v2	111/112 (99%)	110 (99%)	1 (1%)	70	76
6	v5	111/112 (99%)	110 (99%)	1 (1%)	70	76
6	v6	111/112 (99%)	110 (99%)	1 (1%)	70	76
6	v7	111/112 (99%)	110 (99%)	1 (1%)	70	76
7	03	186/191 (97%)	186 (100%)	0	100	100
7	13	186/191 (97%)	186 (100%)	0	100	100
7	23	186/191 (97%)	186 (100%)	0	100	100
7	33	186/191 (97%)	186 (100%)	0	100	100
7	43	186/191 (97%)	186 (100%)	0	100	100
7	53	186/191 (97%)	185 (100%)	1 (0%)	81	81
7	63	186/191 (97%)	186 (100%)	0	100	100
7	73	186/191 (97%)	186 (100%)	0	100	100
7	83	186/191 (97%)	186 (100%)	0	100	100
7	93	186/191 (97%)	186 (100%)	0	100	100
7	A3	186/191 (97%)	186 (100%)	0	100	100
7	B3	186/191 (97%)	186 (100%)	0	100	100
7	C3	186/191 (97%)	186 (100%)	0	100	100
7	D3	186/191 (97%)	186 (100%)	0	100	100
7	E3	186/191 (97%)	186 (100%)	0	100	100
7	F3	186/191 (97%)	186 (100%)	0	100	100
7	G3	186/191 (97%)	184 (99%)	2 (1%)	65	74
7	J3	186/191 (97%)	186 (100%)	0	100	100
7	K3	191/191 (100%)	191 (100%)	0	100	100
7	L3	186/191 (97%)	186 (100%)	0	100	100
7	M3	186/191 (97%)	186 (100%)	0	100	100
7	N3	191/191 (100%)	191 (100%)	0	100	100
7	O3	186/191 (97%)	186 (100%)	0	100	100
7	P3	185/191 (97%)	185 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	Q3	191/191 (100%)	190 (100%)	1 (0%)	81	81
7	R3	186/191 (97%)	186 (100%)	0	100	100
7	S3	185/191 (97%)	185 (100%)	0	100	100
7	T3	186/191 (97%)	186 (100%)	0	100	100
7	U3	185/191 (97%)	185 (100%)	0	100	100
7	V3	186/191 (97%)	185 (100%)	1 (0%)	81	81
7	W3	191/191 (100%)	189 (99%)	2 (1%)	68	76
7	X3	186/191 (97%)	186 (100%)	0	100	100
7	Y3	186/191 (97%)	186 (100%)	0	100	100
7	Z3	186/191 (97%)	186 (100%)	0	100	100
7	a3	186/191 (97%)	185 (100%)	1 (0%)	81	81
7	b3	186/191 (97%)	186 (100%)	0	100	100
7	c3	186/191 (97%)	186 (100%)	0	100	100
7	d3	186/191 (97%)	186 (100%)	0	100	100
7	e3	186/191 (97%)	186 (100%)	0	100	100
7	f3	186/191 (97%)	179 (96%)	7 (4%)	29	51
7	g3	186/191 (97%)	186 (100%)	0	100	100
7	h3	186/191 (97%)	186 (100%)	0	100	100
7	i3	186/191 (97%)	186 (100%)	0	100	100
7	j3	186/191 (97%)	186 (100%)	0	100	100
7	k3	186/191 (97%)	186 (100%)	0	100	100
7	l3	186/191 (97%)	185 (100%)	1 (0%)	81	81
7	m3	186/191 (97%)	186 (100%)	0	100	100
7	n3	186/191 (97%)	186 (100%)	0	100	100
7	o3	186/191 (97%)	186 (100%)	0	100	100
7	p3	186/191 (97%)	186 (100%)	0	100	100
7	q3	186/191 (97%)	186 (100%)	0	100	100
7	r3	186/191 (97%)	186 (100%)	0	100	100
7	s3	186/191 (97%)	186 (100%)	0	100	100
7	t3	186/191 (97%)	186 (100%)	0	100	100
7	u3	186/191 (97%)	186 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	v3	186/191 (97%)	186 (100%)	0	100	100
7	w3	186/191 (97%)	186 (100%)	0	100	100
7	x3	186/191 (97%)	186 (100%)	0	100	100
7	y3	186/191 (97%)	186 (100%)	0	100	100
7	z3	186/191 (97%)	186 (100%)	0	100	100
8	AA	311/339 (92%)	309 (99%)	2 (1%)	78	80
8	AB	311/339 (92%)	311 (100%)	0	100	100
8	AC	311/339 (92%)	311 (100%)	0	100	100
8	AD	311/339 (92%)	311 (100%)	0	100	100
8	AE	311/339 (92%)	311 (100%)	0	100	100
8	AF	311/339 (92%)	311 (100%)	0	100	100
8	AG	311/339 (92%)	311 (100%)	0	100	100
8	AH	311/339 (92%)	311 (100%)	0	100	100
8	AI	311/339 (92%)	311 (100%)	0	100	100
8	AJ	311/339 (92%)	311 (100%)	0	100	100
8	AK	311/339 (92%)	311 (100%)	0	100	100
8	AL	311/339 (92%)	311 (100%)	0	100	100
9	AQ	134/153 (88%)	134 (100%)	0	100	100
9	AR	134/153 (88%)	134 (100%)	0	100	100
9	AS	134/153 (88%)	133 (99%)	1 (1%)	76	79
9	AT	134/153 (88%)	134 (100%)	0	100	100
9	AW	134/153 (88%)	134 (100%)	0	100	100
9	AX	134/153 (88%)	134 (100%)	0	100	100
10	AU	113/116 (97%)	111 (98%)	2 (2%)	51	67
10	AV	113/116 (97%)	111 (98%)	2 (2%)	51	67
10	AY	113/116 (97%)	112 (99%)	1 (1%)	70	76
10	AZ	113/116 (97%)	113 (100%)	0	100	100
10	Aa	113/116 (97%)	113 (100%)	0	100	100
10	Ab	113/116 (97%)	113 (100%)	0	100	100
All	All	31110/37451 (83%)	30999 (100%)	111 (0%)	81	82

All (111) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	f	23	CYS
1	g	7	ARG
1	g	9	LEU
1	g	11	GLN
1	g	23	CYS
2	a	38	GLU
2	a	46	LEU
2	a	134	ARG
2	a	198	ARG
2	l	88	SER
2	n	131	VAL
2	o	51	GLU
2	o	52	LYS
2	q	61	LYS
2	q	63	ARG
2	q	167	ARG
2	h	61	LYS
2	h	72	THR
2	h	74	ILE
2	h	93	ILE
2	h	167	ARG
2	i	52	LYS
2	k	140	VAL
2	k	167	ARG
2	m	74	ILE
3	H	49	GLN
5	h1	184	VAL
5	h1	186	CYS
5	h1	190	CYS
5	h1	302	CYS
5	h1	385	CYS
5	h1	455	CYS
5	h1	457	GLU
5	n1	305	VAL
5	o1	302	CYS
5	o1	457	GLU
6	q1	67	ARG
6	v1	99	CYS
1	b2	25	ILE
5	g2	184	VAL
5	g2	186	CYS
5	g2	188	ILE
5	n2	300	GLU

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Mol	Chain	Res	Type
5	n2	305	VAL
5	n2	370	THR
5	n2	456	CYS
6	p2	78	LEU
5	r2	455	CYS
6	u2	136	THR
6	v2	99	CYS
7	Q3	19	CYS
7	V3	10	ASN
7	W3	22	CYS
7	W3	25	GLU
7	a3	8	PRO
7	f3	51	HIS
7	f3	53	LEU
7	f3	54	THR
7	f3	209	ILE
7	f3	210	ASP
7	f3	211	CYS
7	f3	212	ASP
7	l3	211	CYS
7	53	22	CYS
7	G3	220	SER
7	G3	221	CYS
1	d5	6	CYS
1	e5	6	CYS
6	l5	56	ASP
6	l5	58	ASP
6	l5	61	VAL
5	n5	301	ASN
5	o5	188	ILE
5	o5	190	CYS
5	o5	385	CYS
6	v5	99	CYS
1	a6	25	ILE
1	d6	23	CYS
1	d6	25	ILE
1	e6	6	CYS
5	k6	440	CYS
6	p6	75	ASP
6	q6	1	MET
6	q6	3	PHE
6	v6	99	CYS

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Mol	Chain	Res	Type
1	d7	23	CYS
1	e7	6	CYS
5	k7	440	CYS
6	l7	55	SER
6	l7	56	ASP
6	m7	4	ASN
5	o7	190	CYS
6	p7	76	THR
6	p7	78	LEU
6	q7	136	THR
5	r7	200	ILE
5	r7	287	ILE
6	t7	9	PHE
6	v7	99	CYS
8	AA	276	ILE
8	AA	277	ILE
3	AM	113	ARG
10	AU	96	VAL
10	AU	127	LEU
3	AP	47	PHE
9	AS	50	LEU
10	AV	127	LEU
10	AV	128	LEU
3	AO	49	GLN
3	AO	50	ASP
10	AY	127	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (498) such sidechains are listed below:

Mol	Chain	Res	Type
2	a	15	HIS
2	a	99	ASN
2	a	158	ASN
2	a	191	GLN
2	b	10	GLN
2	b	15	HIS
2	b	155	ASN
2	b	191	GLN
2	l	138	ASN
2	l	158	ASN
2	n	171	ASN
2	o	155	ASN

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Mol	Chain	Res	Type
2	p	138	ASN
2	p	155	ASN
2	q	15	HIS
2	q	99	ASN
2	q	138	ASN
2	h	155	ASN
2	h	191	GLN
2	i	155	ASN
2	j	10	GLN
2	j	155	ASN
2	j	158	ASN
2	j	183	ASN
2	k	155	ASN
2	k	157	ASN
2	m	21	ASN
2	m	155	ASN
2	m	175	GLN
3	H	8	HIS
3	H	55	GLN
3	H	68	ASN
3	I	8	HIS
3	I	15	GLN
3	I	49	GLN
3	I	55	GLN
5	g1	187	ASN
5	g1	277	HIS
5	g1	292	ASN
5	g1	359	ASN
5	g1	463	GLN
5	h1	178	GLN
5	h1	236	ASN
5	h1	280	ASN
5	h1	314	ASN
5	h1	346	GLN
5	h1	347	ASN
5	h1	359	ASN
5	h1	431	GLN
5	k1	346	GLN
5	k1	431	GLN
5	k1	444	GLN
5	k1	458	HIS
6	l1	122	ASN

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Mol	Chain	Res	Type
6	m1	127	GLN
5	n1	283	GLN
5	n1	314	ASN
5	n1	359	ASN
5	o1	292	ASN
5	o1	301	ASN
5	o1	346	GLN
5	o1	384	ASN
5	o1	458	HIS
6	p1	122	ASN
6	p1	127	GLN
5	r1	199	GLN
5	r1	254	ASN
5	r1	282	ASN
5	r1	283	GLN
5	r1	292	ASN
5	r1	359	ASN
6	s1	122	ASN
6	t1	52	HIS
6	t1	127	GLN
6	u1	4	ASN
6	u1	109	GLN
6	u1	127	GLN
6	v1	30	GLN
6	v1	48	ASN
6	v1	127	GLN
1	e2	5	ASN
5	g2	274	GLN
5	g2	292	ASN
5	g2	359	ASN
5	g2	393	ASN
5	h2	280	ASN
5	h2	346	GLN
5	h2	359	ASN
5	k2	259	GLN
5	k2	324	GLN
5	k2	346	GLN
5	k2	431	GLN
5	k2	458	HIS
6	l2	4	ASN
6	m2	127	GLN
5	n2	292	ASN

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Mol	Chain	Res	Type
5	n2	314	ASN
5	n2	324	GLN
5	o2	217	GLN
5	o2	277	HIS
5	o2	307	GLN
5	o2	346	GLN
5	o2	384	ASN
5	o2	458	HIS
6	p2	2	ASN
6	p2	4	ASN
6	p2	107	ASN
6	p2	122	ASN
6	p2	127	GLN
5	r2	199	GLN
5	r2	254	ASN
5	r2	292	ASN
5	r2	301	ASN
5	r2	444	GLN
6	s2	109	GLN
6	s2	122	ASN
6	s2	127	GLN
6	t2	4	ASN
6	t2	52	HIS
6	t2	127	GLN
6	u2	107	ASN
6	u2	122	ASN
6	u2	127	GLN
6	v2	48	ASN
7	J3	99	GLN
7	J3	142	ASN
7	K3	55	ASN
7	K3	218	HIS
7	L3	10	ASN
7	M3	99	GLN
7	M3	142	ASN
7	M3	218	HIS
7	N3	108	ASN
7	N3	218	HIS
7	O3	55	ASN
7	O3	108	ASN
7	P3	99	GLN
7	P3	142	ASN

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Mol	Chain	Res	Type
7	P3	218	HIS
7	Q3	55	ASN
7	Q3	218	HIS
7	R3	55	ASN
7	R3	112	ASN
7	R3	120	ASN
7	S3	99	GLN
7	S3	142	ASN
7	S3	182	HIS
7	S3	218	HIS
7	T3	55	ASN
7	U3	108	ASN
7	U3	182	HIS
7	V3	10	ASN
7	V3	99	GLN
7	V3	142	ASN
7	V3	182	HIS
7	W3	51	HIS
7	W3	218	HIS
7	Y3	55	ASN
7	Z3	112	ASN
7	a3	51	HIS
7	a3	55	ASN
7	b3	55	ASN
7	c3	112	ASN
7	d3	51	HIS
7	d3	120	ASN
7	d3	182	HIS
7	e3	55	ASN
7	e3	161	GLN
7	f3	55	ASN
7	f3	112	ASN
7	g3	55	ASN
7	h3	55	ASN
7	i3	112	ASN
7	j3	55	ASN
7	j3	182	HIS
7	k3	51	HIS
7	k3	55	ASN
7	l3	55	ASN
7	l3	112	ASN
7	m3	55	ASN

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Mol	Chain	Res	Type
7	m3	108	ASN
7	m3	112	ASN
7	m3	182	HIS
7	n3	108	ASN
7	o3	51	HIS
7	o3	55	ASN
7	o3	108	ASN
7	p3	55	ASN
7	p3	73	ASN
7	p3	99	GLN
7	p3	120	ASN
7	p3	144	ASN
7	p3	182	HIS
7	p3	218	HIS
7	q3	10	ASN
7	s3	55	ASN
7	s3	73	ASN
7	s3	120	ASN
7	s3	144	ASN
7	u3	51	HIS
7	u3	108	ASN
7	v3	55	ASN
7	v3	73	ASN
7	w3	142	ASN
7	w3	218	HIS
7	x3	55	ASN
7	x3	108	ASN
7	y3	55	ASN
7	y3	73	ASN
7	y3	182	HIS
7	13	55	ASN
7	23	55	ASN
7	23	73	ASN
7	23	120	ASN
7	23	144	ASN
7	23	182	HIS
7	33	108	ASN
7	33	182	HIS
7	33	218	HIS
7	43	73	ASN
7	43	142	ASN
7	53	55	ASN

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Mol	Chain	Res	Type
7	53	73	ASN
7	53	108	ASN
7	53	120	ASN
7	63	218	HIS
7	73	73	ASN
7	83	108	ASN
7	83	120	ASN
7	83	182	HIS
7	83	218	HIS
7	93	218	HIS
7	03	55	ASN
7	03	142	ASN
7	A3	55	ASN
7	A3	73	ASN
7	A3	108	ASN
7	A3	182	HIS
7	A3	218	HIS
7	B3	182	HIS
7	C3	73	ASN
7	C3	218	HIS
7	D3	55	ASN
7	D3	73	ASN
7	D3	120	ASN
7	D3	218	HIS
7	E3	112	ASN
7	E3	182	HIS
7	F3	55	ASN
7	F3	73	ASN
7	F3	112	ASN
7	F3	120	ASN
7	G3	73	ASN
7	G3	108	ASN
7	G3	144	ASN
7	G3	182	HIS
7	G3	218	HIS
5	g5	187	ASN
5	g5	277	HIS
5	g5	280	ASN
5	g5	292	ASN
5	g5	359	ASN
5	g5	444	GLN
5	h5	178	GLN

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Mol	Chain	Res	Type
5	h5	199	GLN
5	h5	257	ASN
5	h5	274	GLN
5	h5	277	HIS
5	h5	314	ASN
5	h5	346	GLN
5	h5	347	ASN
5	h5	359	ASN
5	h5	431	GLN
5	h5	444	GLN
5	k5	178	GLN
5	k5	324	GLN
5	k5	346	GLN
5	k5	359	ASN
5	k5	431	GLN
5	k5	458	HIS
6	m5	127	GLN
5	n5	199	GLN
5	n5	280	ASN
5	n5	431	GLN
5	n5	458	HIS
5	o5	346	GLN
5	o5	359	ASN
5	o5	384	ASN
6	p5	122	ASN
6	p5	127	GLN
5	r5	259	GLN
5	r5	277	HIS
5	r5	292	ASN
5	r5	347	ASN
6	s5	30	GLN
6	s5	109	GLN
6	t5	127	GLN
6	u5	4	ASN
6	u5	122	ASN
6	u5	127	GLN
6	v5	48	ASN
6	v5	127	GLN
5	g6	187	ASN
5	g6	282	ASN
5	g6	292	ASN
5	g6	346	GLN

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Mol	Chain	Res	Type
5	h6	178	GLN
5	h6	257	ASN
5	h6	280	ASN
5	h6	282	ASN
5	h6	314	ASN
5	h6	346	GLN
5	h6	359	ASN
5	h6	431	GLN
5	k6	324	GLN
5	k6	346	GLN
5	k6	431	GLN
5	k6	458	HIS
6	l6	4	ASN
6	l6	109	GLN
6	l6	122	ASN
6	m6	4	ASN
6	m6	52	HIS
6	m6	107	ASN
6	m6	127	GLN
5	n6	280	ASN
5	n6	324	GLN
5	n6	359	ASN
5	n6	412	GLN
5	o6	259	GLN
5	o6	292	ASN
5	o6	324	GLN
5	o6	346	GLN
5	o6	359	ASN
5	o6	384	ASN
6	p6	122	ASN
5	r6	199	GLN
5	r6	254	ASN
5	r6	282	ASN
5	r6	292	ASN
5	r6	359	ASN
6	s6	109	GLN
6	t6	127	GLN
6	u6	4	ASN
6	u6	127	GLN
6	v6	48	ASN
6	v6	107	ASN
5	g7	187	ASN

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Mol	Chain	Res	Type
5	g7	292	ASN
5	g7	324	GLN
5	g7	359	ASN
5	h7	314	ASN
5	h7	346	GLN
5	h7	359	ASN
5	k7	324	GLN
5	k7	346	GLN
5	k7	458	HIS
6	l7	4	ASN
6	l7	122	ASN
6	m7	52	HIS
6	m7	107	ASN
6	m7	127	GLN
5	n7	280	ASN
5	n7	314	ASN
5	n7	324	GLN
5	o7	217	GLN
5	o7	280	ASN
5	o7	282	ASN
5	o7	324	GLN
5	o7	346	GLN
5	o7	384	ASN
6	p7	109	GLN
6	p7	122	ASN
6	p7	127	GLN
5	r7	254	ASN
5	r7	277	HIS
5	r7	292	ASN
5	r7	301	ASN
5	r7	384	ASN
6	s7	122	ASN
6	t7	48	ASN
6	t7	109	GLN
6	t7	127	GLN
6	u7	4	ASN
6	u7	122	ASN
6	u7	127	GLN
6	v7	48	ASN
8	AA	69	GLN
8	AA	140	ASN
8	AA	191	ASN

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Mol	Chain	Res	Type
8	AA	206	ASN
8	AA	215	GLN
8	AA	255	GLN
8	AA	291	ASN
8	AB	38	ASN
8	AB	69	GLN
8	AB	81	ASN
8	AB	112	GLN
8	AB	140	ASN
8	AB	183	ASN
8	AB	291	ASN
8	AC	69	GLN
8	AC	99	GLN
8	AC	191	ASN
8	AD	44	ASN
8	AD	69	GLN
8	AD	99	GLN
8	AD	112	GLN
8	AD	140	ASN
8	AD	183	ASN
8	AD	240	ASN
8	AD	291	ASN
8	AD	305	GLN
8	AE	44	ASN
8	AE	69	GLN
8	AE	112	GLN
8	AE	183	ASN
8	AE	215	GLN
8	AE	240	ASN
8	AE	255	GLN
8	AE	291	ASN
8	AE	312	ASN
8	AF	38	ASN
8	AF	44	ASN
8	AF	69	GLN
8	AF	81	ASN
8	AF	93	GLN
8	AF	202	ASN
8	AF	215	GLN
8	AF	312	ASN
8	AG	38	ASN
8	AG	69	GLN

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Mol	Chain	Res	Type
8	AG	81	ASN
8	AG	99	GLN
8	AG	112	GLN
8	AG	140	ASN
8	AG	164	GLN
8	AG	191	ASN
8	AG	202	ASN
8	AG	206	ASN
8	AG	210	GLN
8	AG	272	ASN
8	AH	105	ASN
8	AH	112	GLN
8	AH	140	ASN
8	AH	240	ASN
8	AH	255	GLN
8	AH	272	ASN
8	AH	297	HIS
8	AH	312	ASN
8	AI	69	GLN
8	AI	81	ASN
8	AI	140	ASN
8	AI	202	ASN
8	AJ	69	GLN
8	AJ	102	GLN
8	AJ	112	GLN
8	AJ	140	ASN
8	AJ	202	ASN
8	AJ	215	GLN
8	AK	69	GLN
8	AK	99	GLN
8	AK	152	GLN
8	AK	183	ASN
8	AK	191	ASN
8	AK	272	ASN
8	AL	69	GLN
8	AL	140	ASN
8	AL	164	GLN
8	AL	255	GLN
8	AL	272	ASN
8	AL	312	ASN
3	AM	68	ASN
3	AM	74	ASN

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Mol	Chain	Res	Type
9	AQ	125	HIS
10	AU	6	GLN
10	AU	42	ASN
10	AU	84	GLN
9	AR	151	GLN
3	AP	8	HIS
10	AZ	6	GLN
10	AZ	22	GLN
10	AZ	56	GLN
3	AN	8	HIS
3	AN	74	ASN
10	AV	6	GLN
10	AV	42	ASN
10	AV	84	GLN
9	AT	151	GLN
10	Aa	6	GLN
10	Aa	118	ASN
3	AO	49	GLN
3	AO	68	ASN
10	AY	6	GLN
10	AY	42	ASN
10	AY	84	GLN
9	AX	151	GLN
10	Ab	6	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

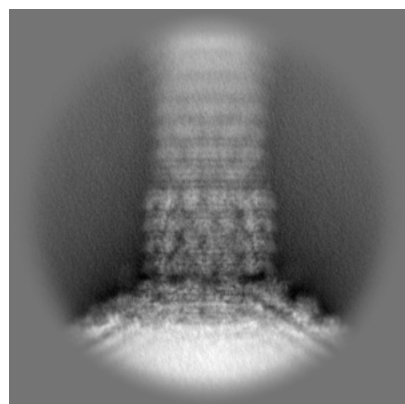
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29541. These allow visual inspection of the internal detail of the map and identification of artifacts.

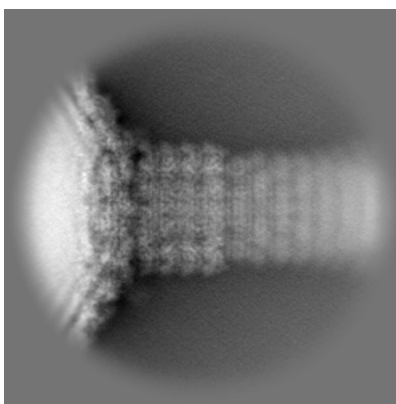
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

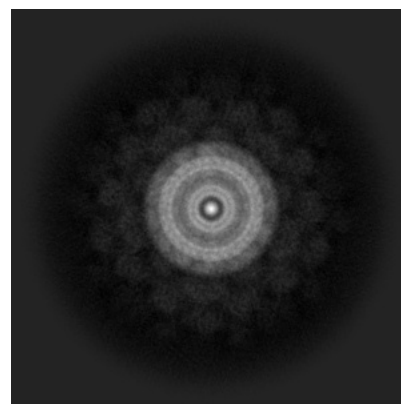
6.1.1 Primary map



X

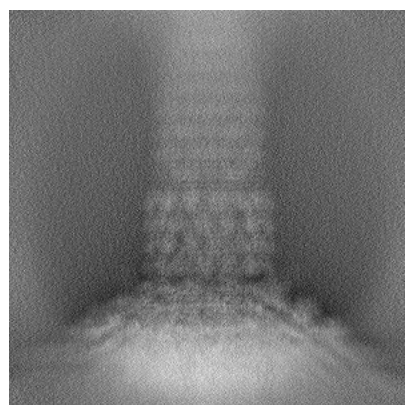


Y

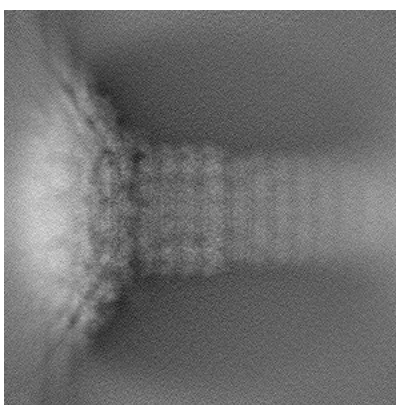


Z

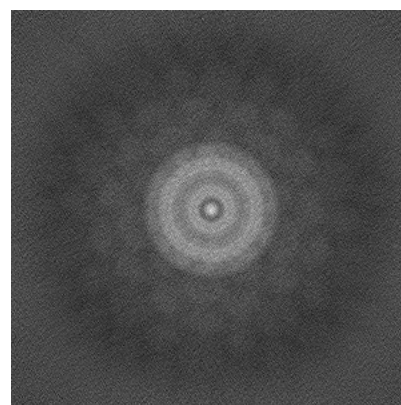
6.1.2 Raw map



X



Y

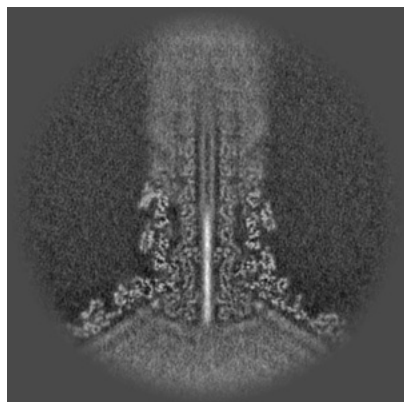


Z

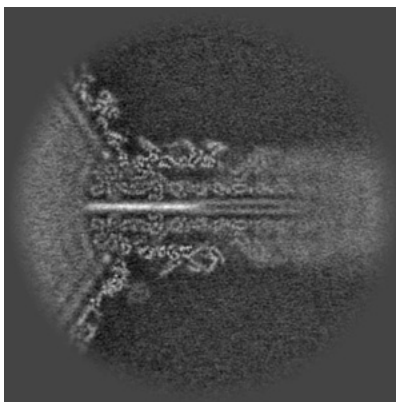
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

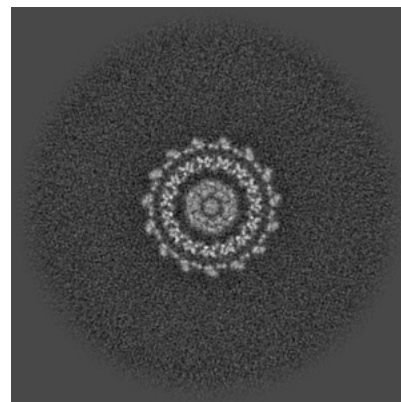
6.2.1 Primary map



X Index: 300

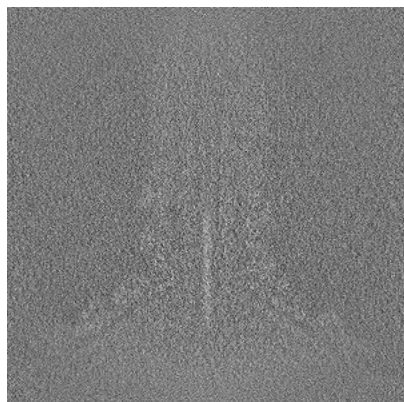


Y Index: 300

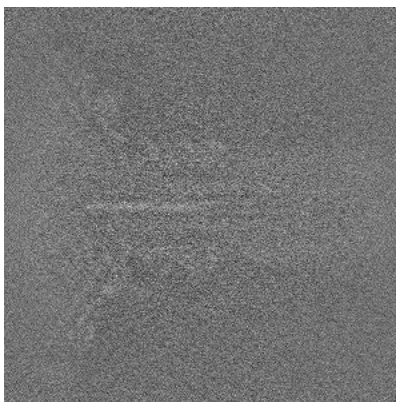


Z Index: 300

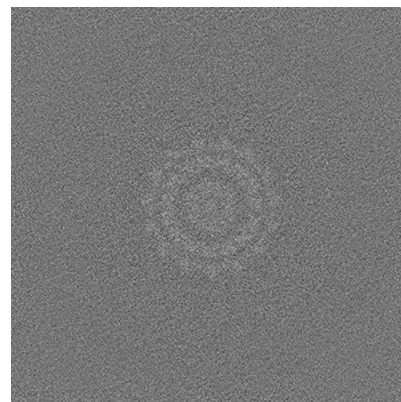
6.2.2 Raw map



X Index: 300



Y Index: 300

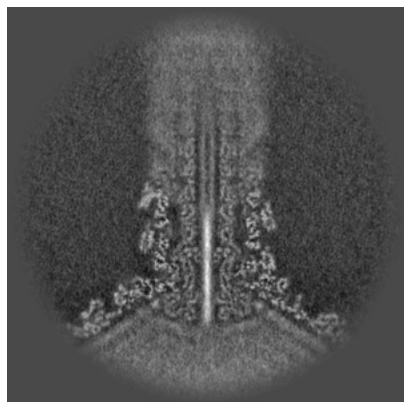


Z Index: 300

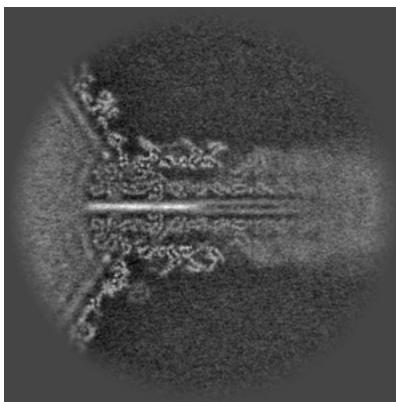
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

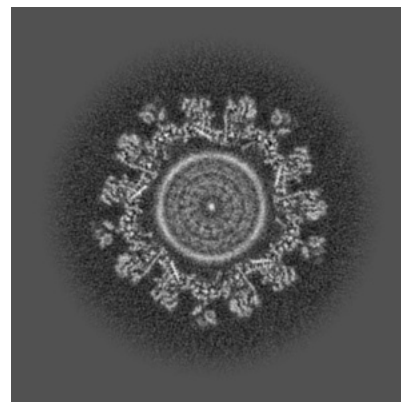
6.3.1 Primary map



X Index: 300

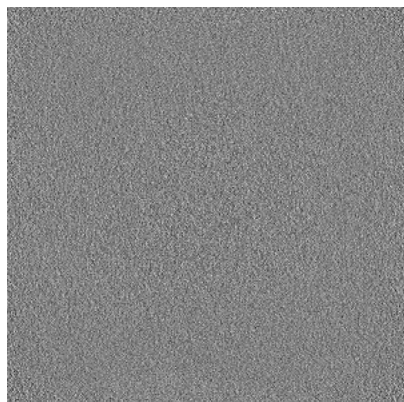


Y Index: 299

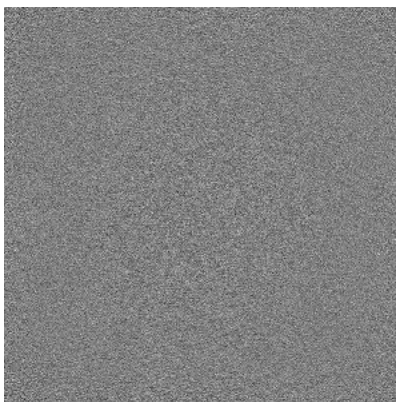


Z Index: 155

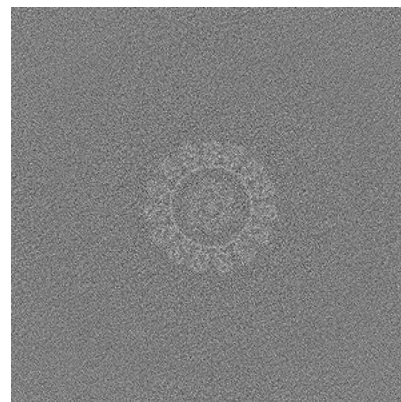
6.3.2 Raw map



X Index: 0



Y Index: 0

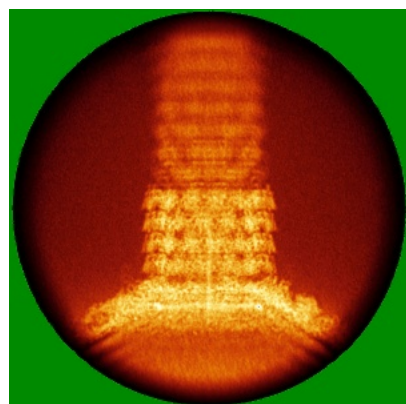


Z Index: 280

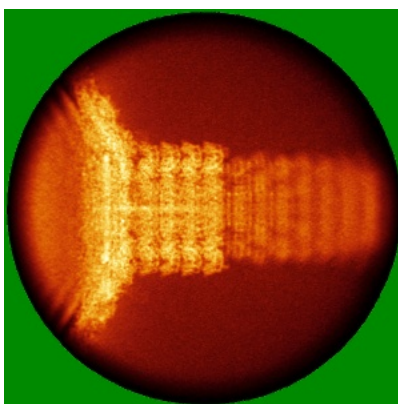
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

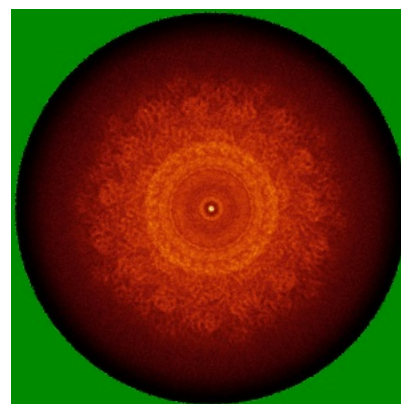
6.4.1 Primary map



X

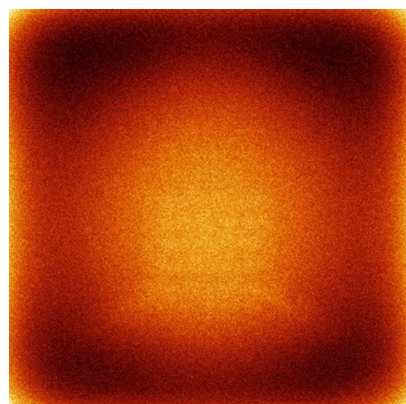


Y

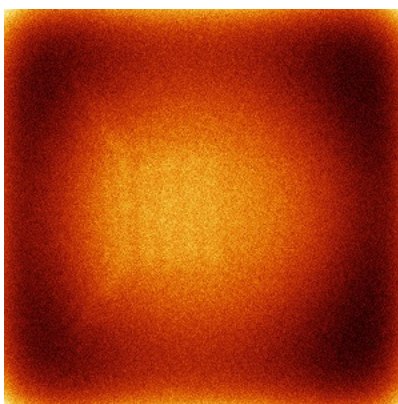


Z

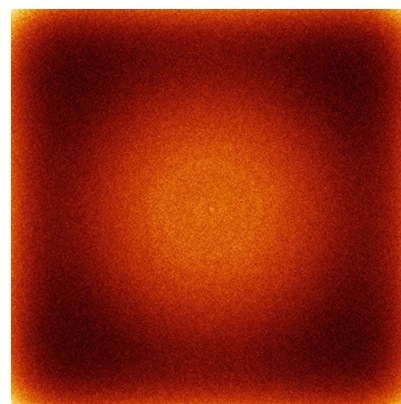
6.4.2 Raw map



X



Y

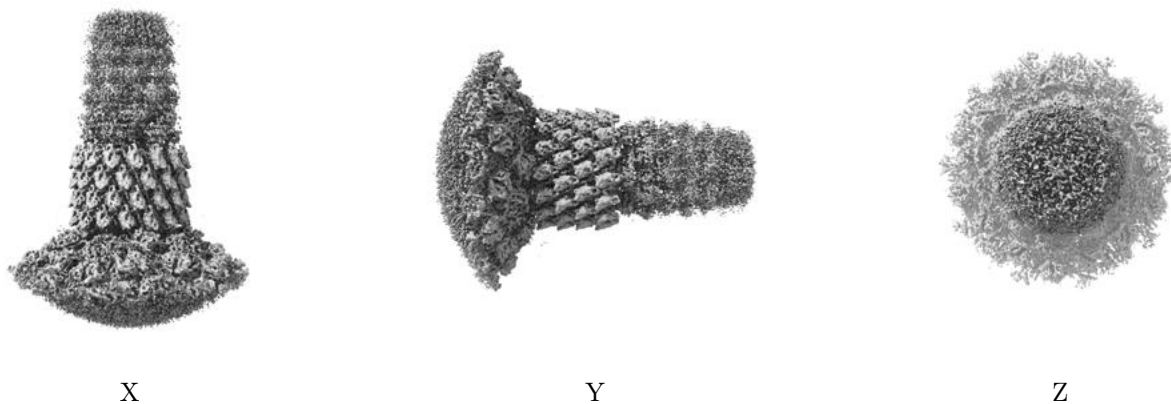


Z

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.

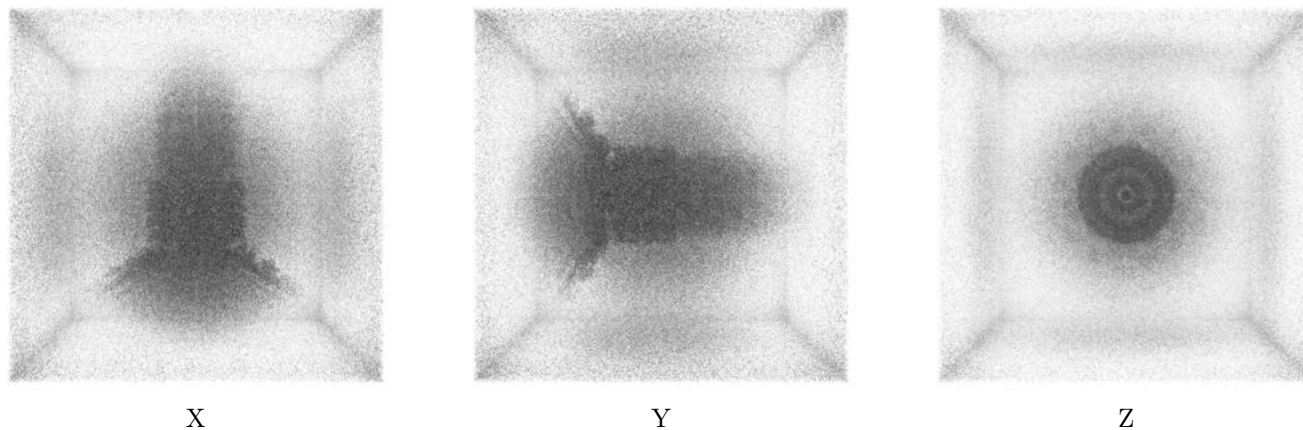
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.125. 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



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.

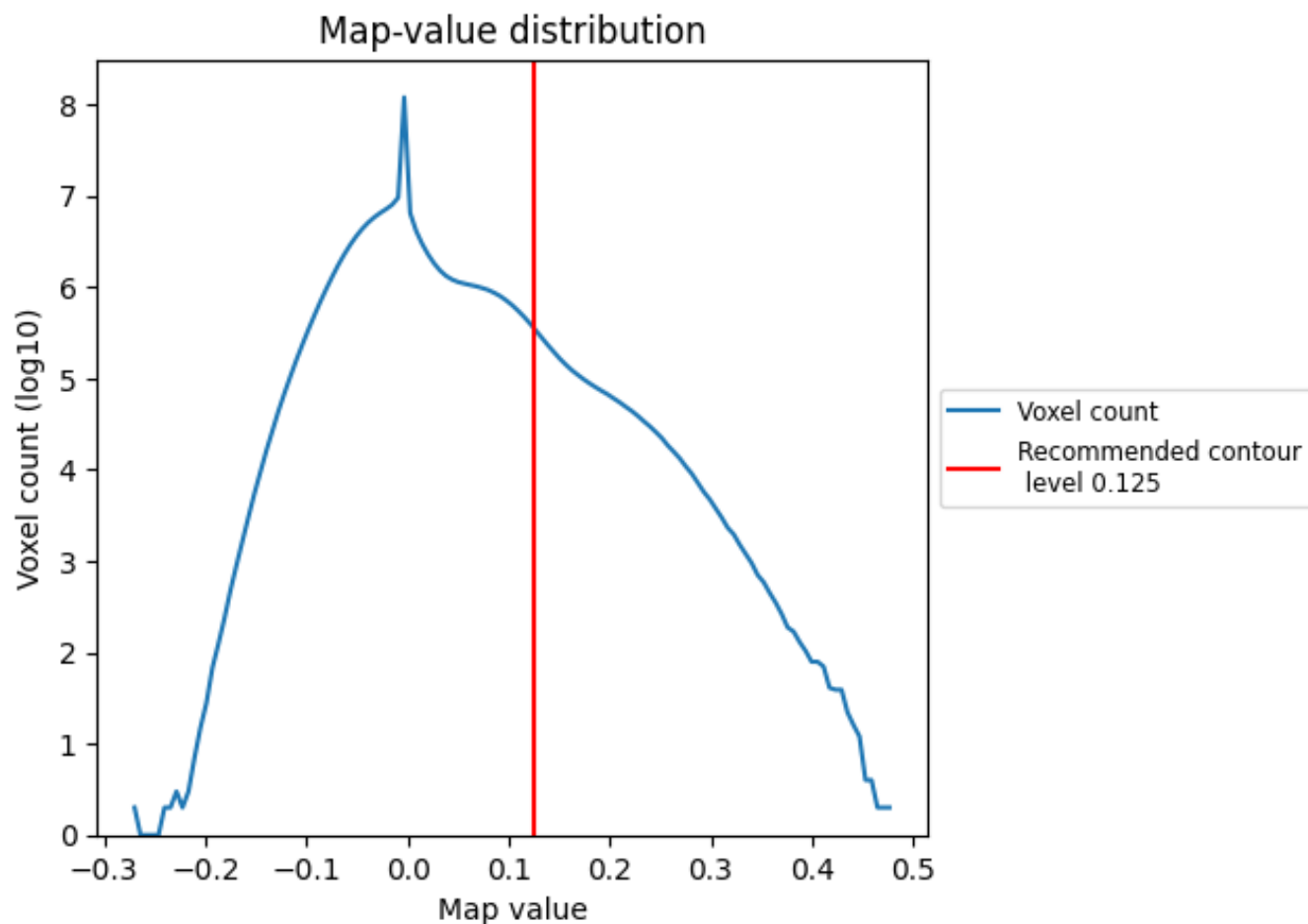
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

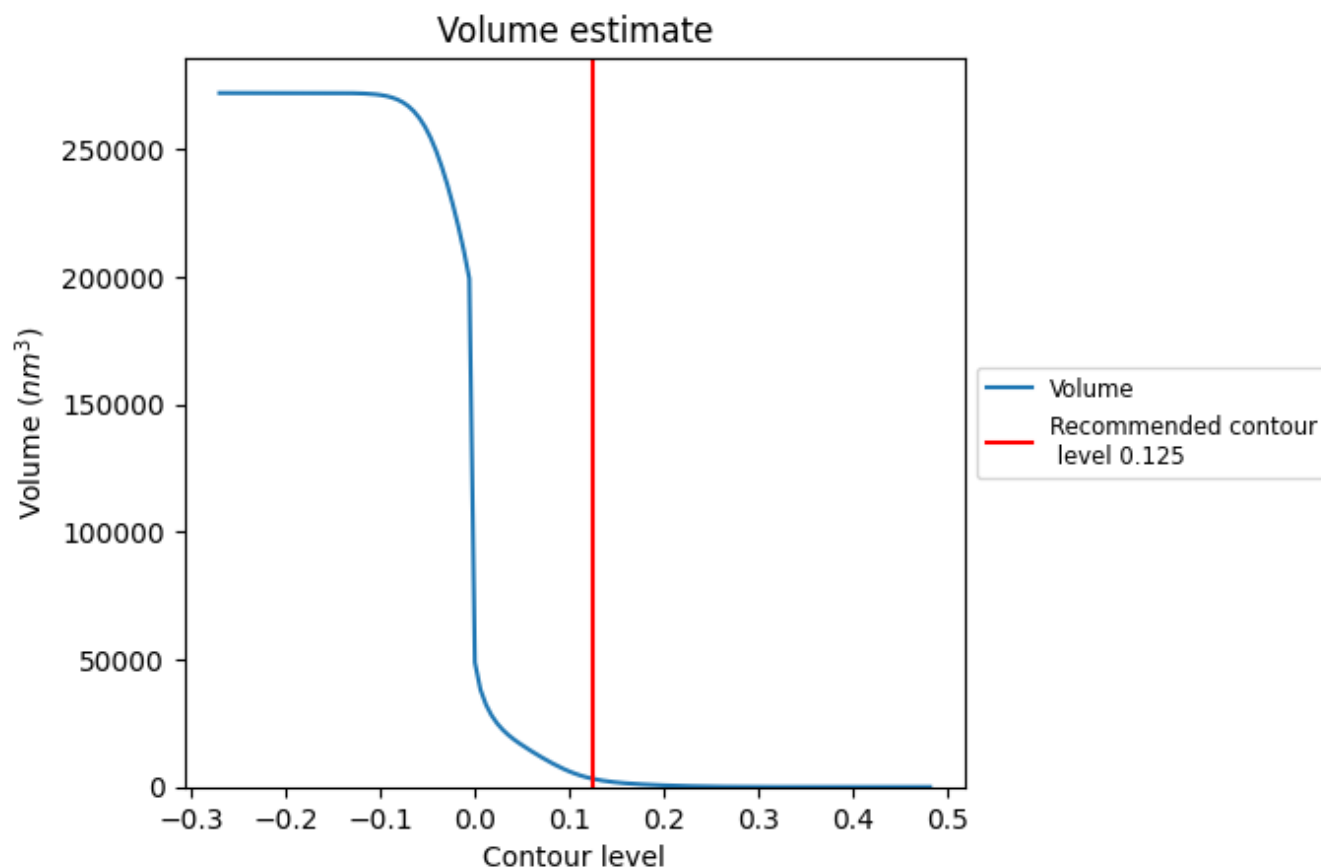
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

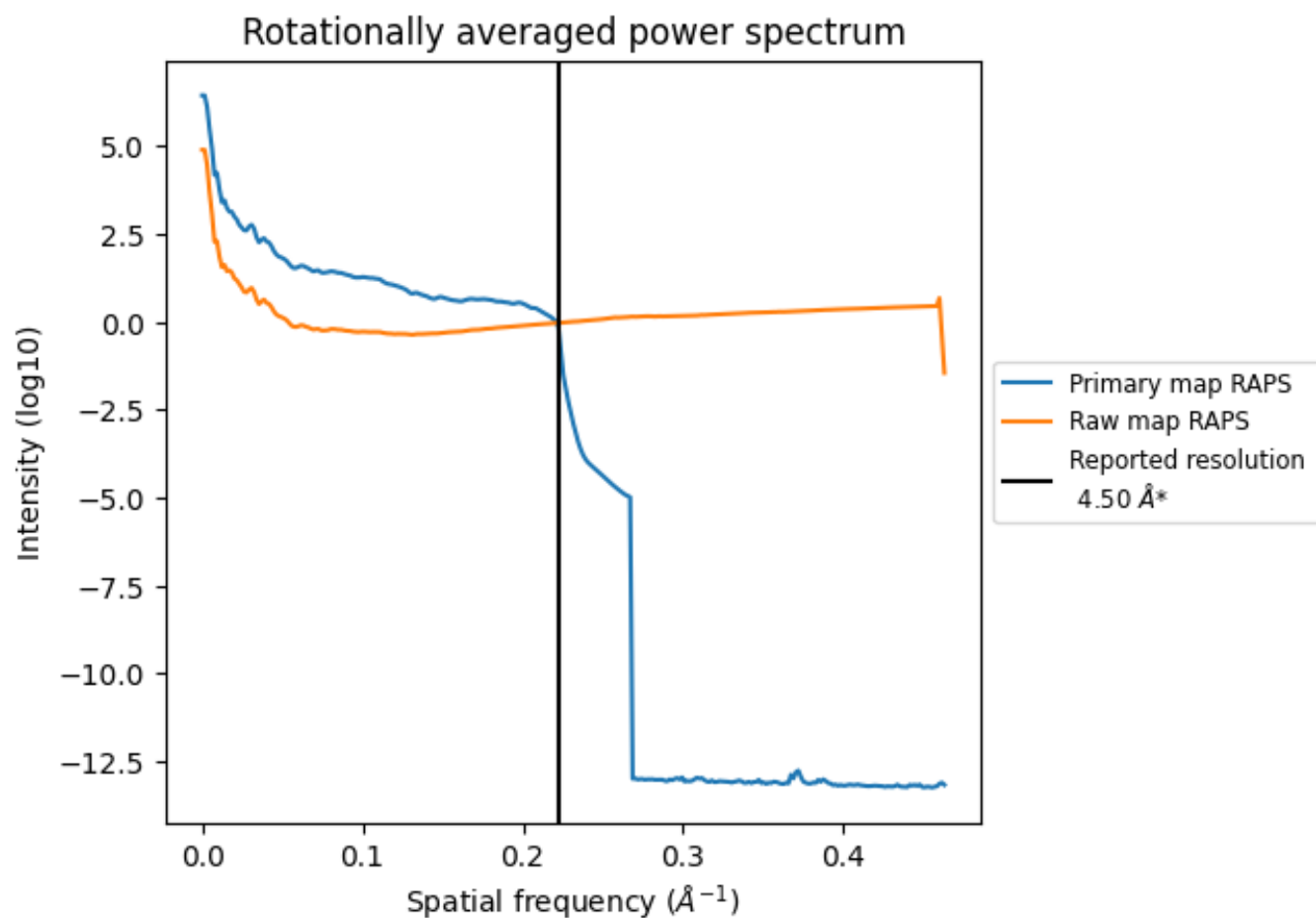
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3249 nm^3 ; this corresponds to an approximate mass of 2935 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 ⓘ

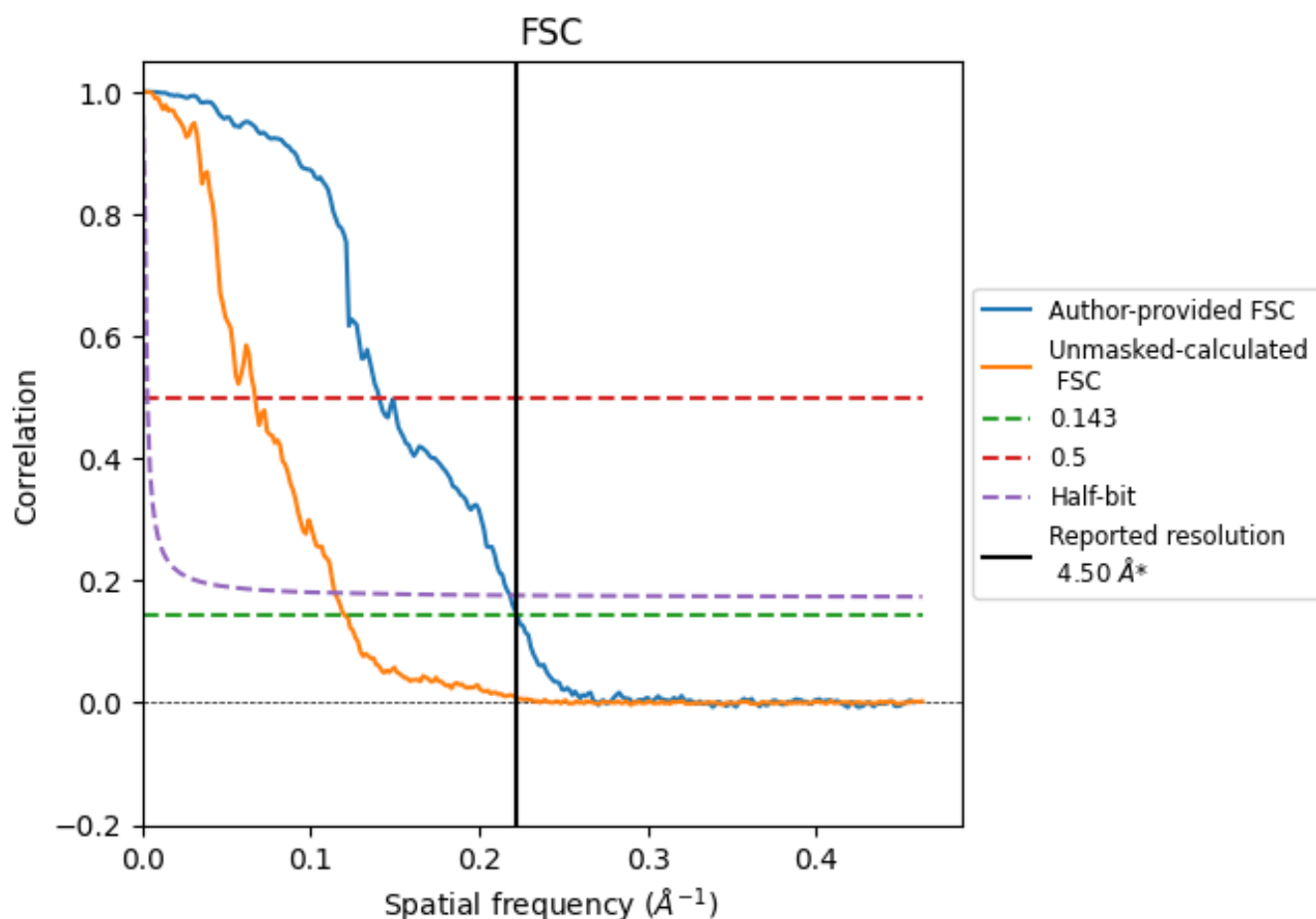


*Reported resolution corresponds to spatial frequency of 0.222 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.222 Å⁻¹

8.2 Resolution estimates [i](#)

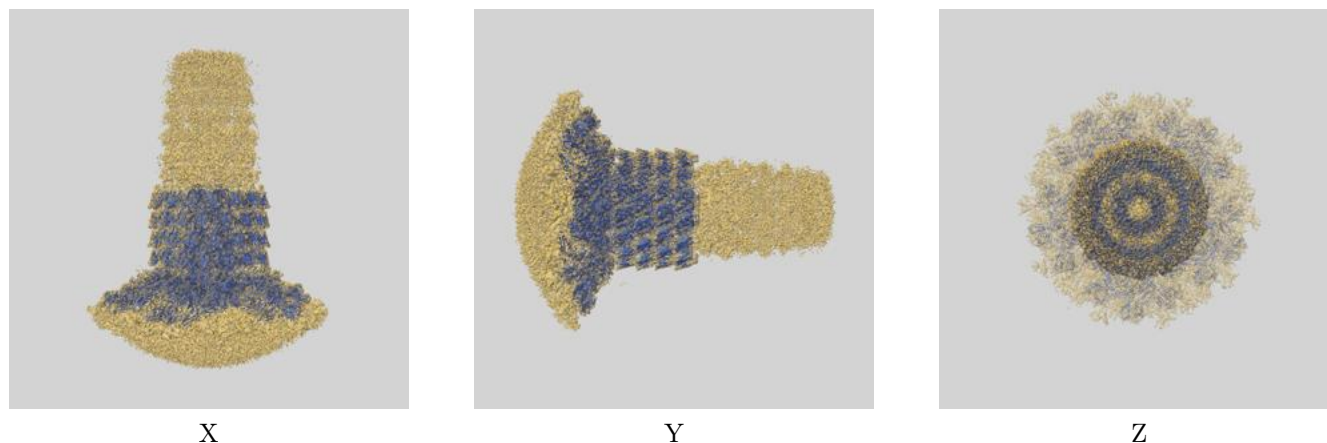
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.50	-	-
Author-provided FSC curve	4.49	7.11	4.58
Unmasked-calculated*	8.32	14.93	8.75

*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 8.32 differs from the reported value 4.5 by more than 10 %

9 Map-model fit [i](#)

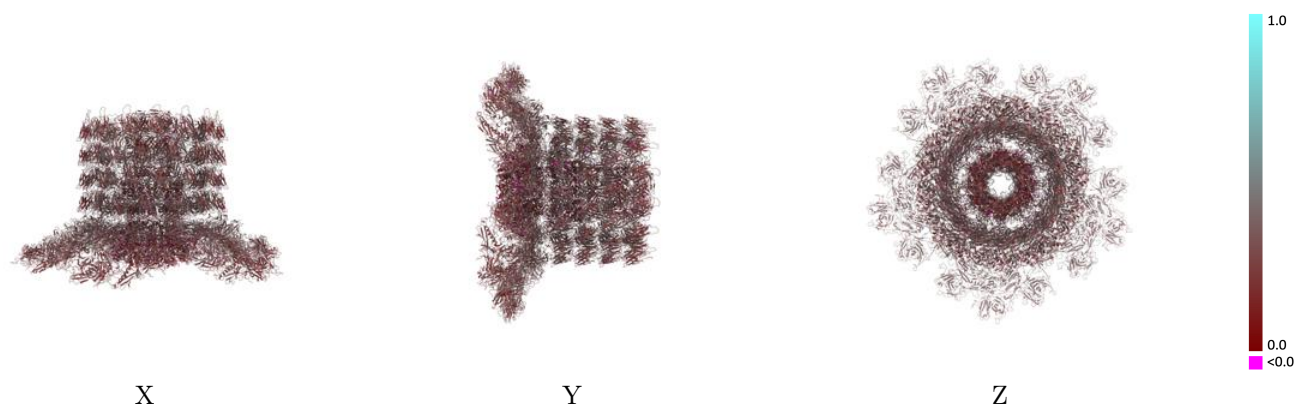
This section contains information regarding the fit between EMDB map EMD-29541 and PDB model 8FXR. Per-residue inclusion information can be found in section 3 on page 22.

9.1 Map-model overlay [i](#)



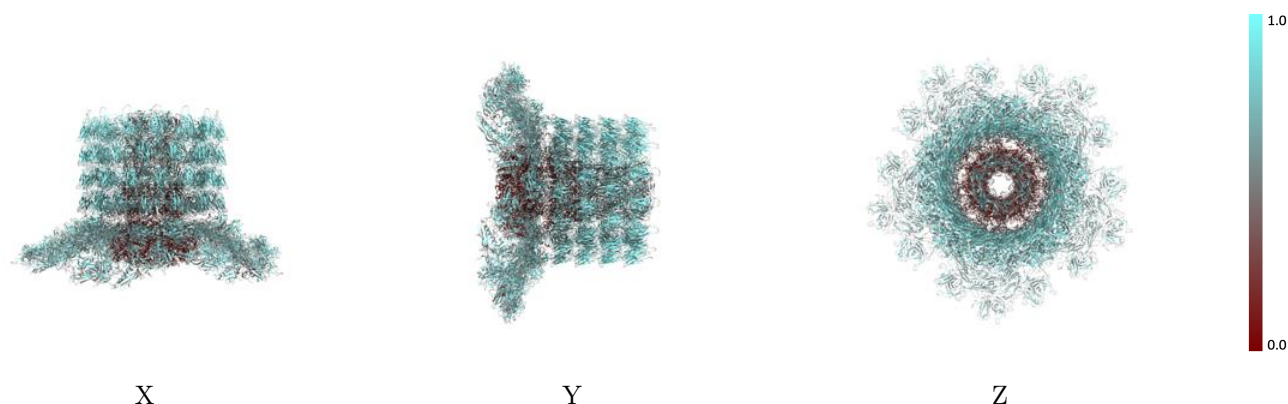
The images above show the 3D surface view of the map at the recommended contour level 0.125 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



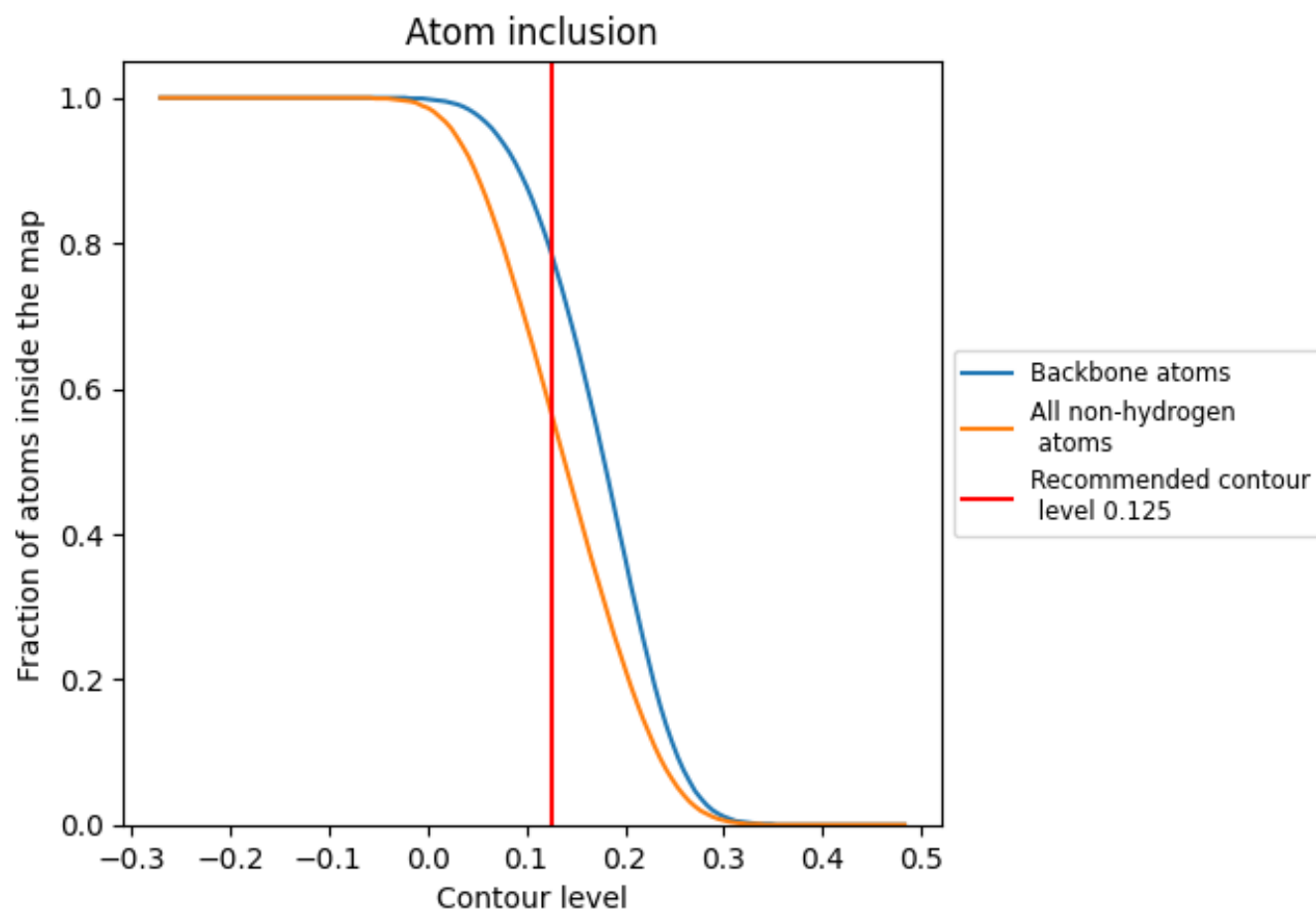
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



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 (0.125).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 57% 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 (0.125) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5690	 0.3020
03	 0.7500	 0.3050
13	 0.7310	 0.3340
23	 0.7580	 0.3370
33	 0.7540	 0.3070
43	 0.7590	 0.3150
53	 0.7710	 0.3000
63	 0.7590	 0.3060
73	 0.7580	 0.3110
83	 0.7510	 0.3070
93	 0.7500	 0.3100
A3	 0.7620	 0.3100
AA	 0.1490	 0.2130
AB	 0.1960	 0.2120
AC	 0.1960	 0.2240
AD	 0.1820	 0.1930
AE	 0.1580	 0.1970
AF	 0.1760	 0.2140
AG	 0.1660	 0.1990
AH	 0.1600	 0.1910
AI	 0.1590	 0.1980
AJ	 0.1660	 0.2030
AK	 0.1750	 0.2160
AL	 0.1650	 0.2030
AM	 0.4150	 0.2730
AN	 0.4440	 0.2640
AO	 0.4430	 0.2510
AP	 0.4190	 0.2670
AQ	 0.3860	 0.2610
AR	 0.4060	 0.2600
AS	 0.3980	 0.2450
AT	 0.3850	 0.2520
AU	 0.3990	 0.2560
AV	 0.4740	 0.2520
AW	 0.3870	 0.2580



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Chain	Atom inclusion	Q-score
AX	0.4070	0.2550
AY	0.4480	0.2550
AZ	0.4180	0.2550
Aa	0.4240	0.2490
Ab	0.4780	0.2590
B3	0.7530	0.3140
C3	0.7540	0.3150
D3	0.7580	0.3090
E3	0.7440	0.3050
F3	0.7570	0.3100
G3	0.7390	0.3090
H	0.4320	0.2750
I	0.4710	0.2750
J3	0.7010	0.3560
K3	0.6380	0.3280
L3	0.6450	0.3350
M3	0.6900	0.3510
N3	0.6250	0.3310
O3	0.6580	0.3380
P3	0.6760	0.3480
Q3	0.6630	0.3360
R3	0.6480	0.3410
S3	0.6980	0.3520
T3	0.6710	0.3390
U3	0.6530	0.3300
V3	0.6850	0.3500
W3	0.6500	0.3340
X3	0.6610	0.3360
Y3	0.7270	0.3360
Z3	0.7380	0.3440
a	0.3030	0.2270
a1	0.5960	0.3750
a2	0.6260	0.3770
a3	0.7350	0.3330
a5	0.6010	0.3900
a6	0.6260	0.3870
a7	0.5910	0.3600
b	0.3580	0.2620
b1	0.6210	0.3620
b2	0.5960	0.3680
b3	0.7200	0.3350
b5	0.5520	0.3740

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Chain	Atom inclusion	Q-score
b6	 0.5620	 0.3510
b7	 0.6010	 0.3530
c	 0.6000	 0.3710
c3	 0.7350	 0.3420
d	 0.6130	 0.3740
d1	 0.5830	 0.3600
d2	 0.5750	 0.3630
d3	 0.7300	 0.3350
d5	 0.5540	 0.3640
d6	 0.6130	 0.3610
d7	 0.5920	 0.3560
e	 0.5500	 0.3620
e1	 0.5270	 0.3420
e2	 0.5370	 0.3420
e3	 0.7240	 0.3370
e5	 0.5760	 0.3610
e6	 0.5320	 0.3440
e7	 0.5320	 0.3410
f	 0.5580	 0.3600
f1	 0.4190	 0.3410
f2	 0.3600	 0.3010
f3	 0.7340	 0.3430
f5	 0.3900	 0.3540
f6	 0.3820	 0.3630
f7	 0.4630	 0.3460
g	 0.5420	 0.3690
g1	 0.6110	 0.3210
g2	 0.6270	 0.3200
g3	 0.7210	 0.3400
g5	 0.6190	 0.3270
g6	 0.5950	 0.3200
g7	 0.5980	 0.3280
h	 0.2850	 0.2560
h1	 0.6290	 0.3350
h2	 0.6230	 0.3340
h3	 0.7470	 0.3470
h5	 0.6250	 0.3420
h6	 0.6180	 0.3360
h7	 0.6160	 0.3350
i	 0.3180	 0.2680
i3	 0.7240	 0.3390
j	 0.2500	 0.2440

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Chain	Atom inclusion	Q-score
j3	 0.7140	 0.3370
k	 0.3090	 0.2730
k1	 0.5980	 0.3310
k2	 0.5940	 0.3230
k3	 0.7190	 0.3420
k5	 0.6170	 0.3360
k6	 0.5970	 0.3300
k7	 0.6020	 0.3310
l	 0.3160	 0.2590
l1	 0.7120	 0.3360
l2	 0.6710	 0.3550
l3	 0.7340	 0.3460
l5	 0.6900	 0.3480
l6	 0.6840	 0.3390
l7	 0.6880	 0.3430
m	 0.3560	 0.2640
m1	 0.6630	 0.3480
m2	 0.6490	 0.3560
m3	 0.7170	 0.3300
m5	 0.6600	 0.3510
m6	 0.6650	 0.3480
m7	 0.6550	 0.3500
n	 0.3730	 0.2680
n1	 0.6180	 0.3160
n2	 0.6280	 0.3240
n3	 0.7620	 0.3390
n5	 0.6160	 0.3230
n6	 0.6140	 0.3240
n7	 0.6340	 0.3230
o	 0.3390	 0.2640
o1	 0.6110	 0.2990
o2	 0.5920	 0.2930
o3	 0.7560	 0.3340
o5	 0.6010	 0.2970
o6	 0.6110	 0.3050
o7	 0.6310	 0.3040
p	 0.3650	 0.2810
p1	 0.6160	 0.3140
p2	 0.6220	 0.3180
p3	 0.7480	 0.3340
p5	 0.6080	 0.3110
p6	 0.6180	 0.3200

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Chain	Atom inclusion	Q-score
p7	 0.6310	 0.3180
q	 0.2510	 0.2540
q1	 0.6030	 0.3030
q2	 0.6170	 0.3080
q3	 0.7340	 0.3320
q5	 0.5950	 0.3000
q6	 0.6400	 0.3060
q7	 0.6090	 0.3060
r1	 0.6190	 0.3080
r2	 0.6390	 0.3110
r3	 0.7570	 0.3410
r5	 0.6010	 0.3070
r6	 0.6030	 0.2980
r7	 0.6220	 0.3090
s1	 0.6480	 0.3190
s2	 0.6390	 0.3140
s3	 0.7500	 0.3330
s5	 0.6520	 0.3110
s6	 0.6450	 0.3130
s7	 0.6330	 0.3110
t1	 0.5880	 0.2920
t2	 0.6260	 0.2980
t3	 0.7580	 0.3310
t5	 0.6210	 0.3090
t6	 0.6220	 0.3000
t7	 0.6320	 0.3000
u1	 0.5920	 0.2890
u2	 0.5520	 0.2810
u3	 0.7510	 0.3350
u5	 0.5880	 0.2850
u6	 0.5560	 0.2870
u7	 0.5780	 0.2810
v1	 0.6090	 0.2830
v2	 0.5540	 0.2870
v3	 0.7460	 0.3300
v5	 0.5840	 0.2780
v6	 0.5620	 0.2740
v7	 0.5810	 0.2830
w3	 0.7620	 0.3330
x3	 0.7530	 0.3410
y3	 0.7500	 0.3350
z3	 0.7530	 0.3360