



Full wwPDB EM Validation Report ⓘ

Mar 12, 2026 – 10:40 PM UTC

PDB ID : 9MOF / pdb_00009mof
EMDB ID : EMD-48458
Title : Structure of the bacteriophage T4 portal-neck-tail connector complex
Authors : Fokine, A.; Zhu, J.; Klose, T.; Vago, F.; Arnaud, C.; Wang, Z.; Khare, B.;
Rossmann, M.G.; Chen, Z.; Sun, L.; Fang, Q.; Kuhn, R.; Rao, V.B.
Deposited on : 2024-12-26
Resolution : 3.80 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

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

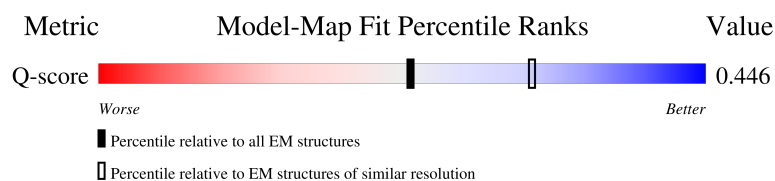
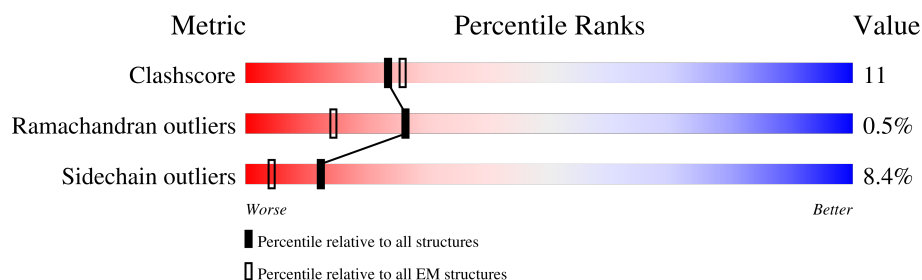
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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.



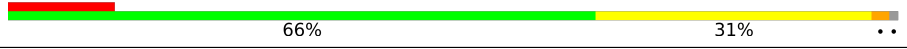
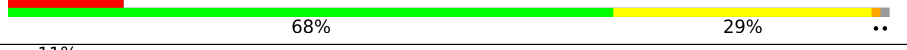
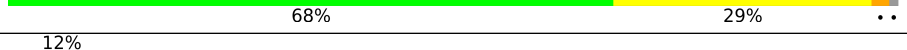
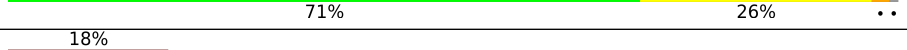
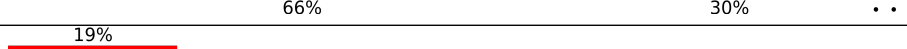
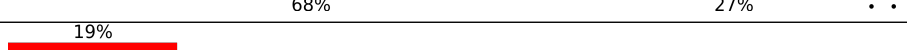
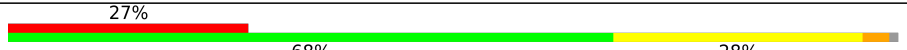
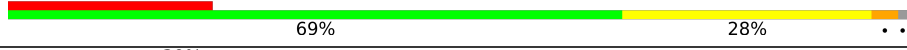
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

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	0	256	
1	k	256	
1	l	256	
1	m	256	

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Mol	Chain	Length	Quality of chain
1	n	256	
1	p	256	
2	1	659	
2	2	659	
2	3	659	
2	4	659	
2	5	659	
2	AD	659	
2	AK	659	
2	AL	659	
2	AM	659	
2	AN	659	
2	AO	659	
2	AP	659	
2	B1	659	
2	B2	659	
2	B3	659	
2	B4	659	
2	B5	659	
2	B6	659	
2	B7	659	
2	Bp	659	
2	Bq	659	
2	Br	659	
2	Bs	659	

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Mol	Chain	Length	Quality of chain
2	Bt	659	
2	Bu	659	
2	Bv	659	
2	Bw	659	
2	Bx	659	
2	By	659	
2	Bz	659	
3	6	163	
3	7	163	
3	8	163	
3	9	163	
3	AA	163	
3	AE	163	
3	AF	163	
3	AG	163	
3	AH	163	
3	AI	163	
3	AJ	163	
3	BX	163	
3	BY	163	
3	BZ	163	
3	Ba	163	
3	Bb	163	
3	Bc	163	
3	Bd	163	

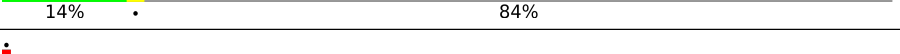
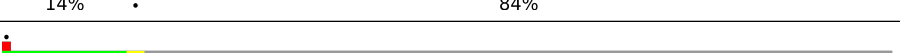
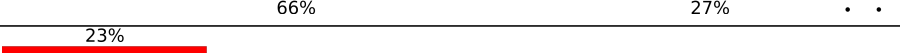
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Mol	Chain	Length	Quality of chain
3	Be	163	
3	Bf	163	
3	Bg	163	
3	Bh	163	
3	Bi	163	
3	Bj	163	
3	Bk	163	
3	Bl	163	
3	Bm	163	
3	Bn	163	
3	Bo	163	
3	o	163	
4	A	487	
4	B	487	
4	C	487	
4	D	487	
4	E	487	
4	F	487	
4	G	487	
4	H	487	
4	I	487	
4	J	487	
4	K	487	
4	L	487	
4	M	487	

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Mol	Chain	Length	Quality of chain
4	N	487	 15% 84%
4	O	487	 13% 84%
4	P	487	 14% 84%
4	Q	487	 14% 84%
4	R	487	 14% 84%
4	S	487	 14% 84%
4	T	487	 14% 84%
4	U	487	 13% 84%
4	V	487	 13% 84%
4	W	487	 13% 84%
4	X	487	 14% 84%
4	Y	487	 14% 84%
4	Z	487	 14% 84%
4	a	487	 14% 84%
4	b	487	 14% 84%
4	c	487	 14% 84%
4	d	487	 14% 84%
4	e	487	 14% 84%
4	f	487	 13% 84%
4	g	487	 13% 84%
4	h	487	 13% 84%
4	i	487	 13% 84%
4	j	487	 14% 84%
5	A0	524	 24% 66% 27%
5	A1	524	 23% 67% 26%

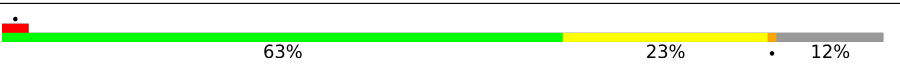
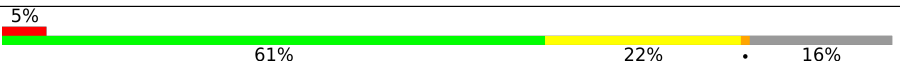
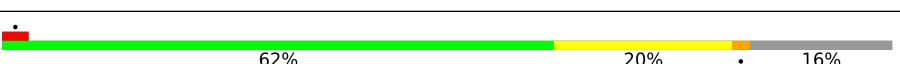
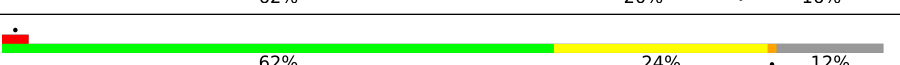
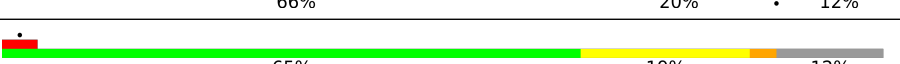
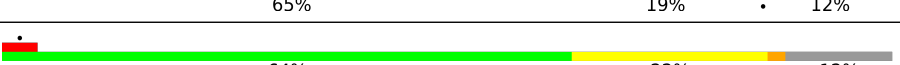
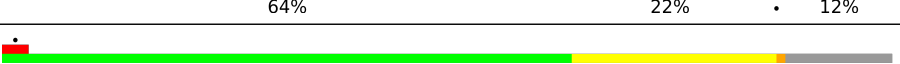
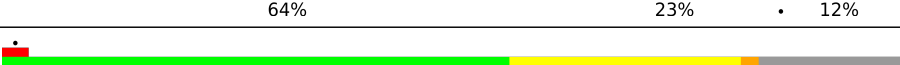
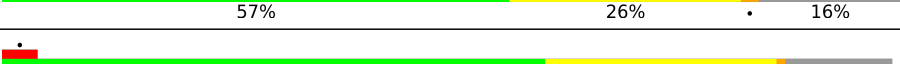
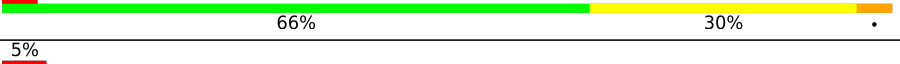
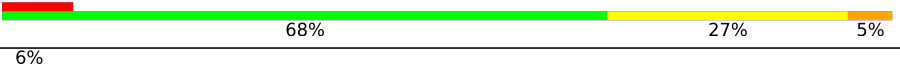
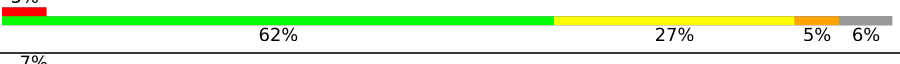
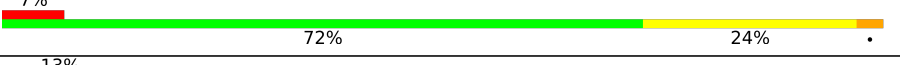
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Mol	Chain	Length	Quality of chain
5	A2	524	
5	A3	524	
5	Av	524	
5	Ax	524	
5	BA	524	
5	BB	524	
5	BD	524	
5	BF	524	
5	BG	524	
5	BH	524	
6	A4	521	
6	A5	521	
6	A7	521	
6	A8	521	
6	A9	521	
6	AV	521	
6	AW	521	
6	AX	521	
6	AZ	521	
6	Ac	521	
6	Ad	521	
6	Ae	521	
6	Af	521	
6	Ag	521	
6	Ah	521	

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Mol	Chain	Length	Quality of chain
6	Ai	521	
6	Aj	521	
6	Ak	521	
6	Am	521	
6	An	521	
6	Ao	521	
6	Ap	521	
6	Au	521	
6	Aw	521	
6	Ay	521	
6	Az	521	
6	BI	521	
6	BJ	521	
6	BK	521	
6	BM	521	
7	A6	309	
7	AY	309	
7	Aa	309	
7	Ab	309	
7	Al	309	
7	Aq	309	
7	Ar	309	
7	As	309	
7	At	309	
7	BC	309	

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Mol	Chain	Length	Quality of chain
7	BE	309	
7	BL	309	
8	AB	272	
8	q	272	
8	r	272	
8	s	272	
8	t	272	
8	u	272	
9	AC	176	
9	v	176	
9	w	176	
9	x	176	
9	y	176	
9	z	176	
10	AQ	376	
10	AR	376	
10	AS	376	
10	AT	376	
10	AU	376	
11	BN	80	
11	BO	80	
11	BP	80	
11	BQ	80	
11	BR	80	
11	BS	80	

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Mol	Chain	Length	Quality of chain
11	BT	80	71%25%..
11	BU	80	74%25%.
11	BV	80	79%19%..
11	BW	80	6%69%28%..

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 435087 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 gp14, neck protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	244	Total 1993	C 1279	N 323	O 387	S 4	0	0
1	k	244	Total 1993	C 1279	N 323	O 387	S 4	0	0
1	l	244	Total 1993	C 1279	N 323	O 387	S 4	0	0
1	m	244	Total 1993	C 1279	N 323	O 387	S 4	0	0
1	n	244	Total 1993	C 1279	N 323	O 387	S 4	0	0
1	p	244	Total 1993	C 1279	N 323	O 387	S 4	0	0

- Molecule 2 is a protein called gp18, tail sheath protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	2	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	3	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	4	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	5	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	AD	653	Total 4985	C 3142	N 839	O 993	S 11	0	0
2	AK	655	Total 5000	C 3152	N 841	O 996	S 11	0	0
2	AL	655	Total 5000	C 3152	N 841	O 996	S 11	0	0
2	AM	655	Total 5000	C 3152	N 841	O 996	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	AN	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	AO	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	AP	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B1	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B2	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B3	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B4	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B5	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B6	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	B7	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bp	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bq	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Br	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bs	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bt	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bu	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bv	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bw	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bx	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	By	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
2	Bz	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

There are 90 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1	109	ASN	SER	conflict	UNP A0A7S9SVW9
1	301	GLY	GLU	conflict	UNP A0A7S9SVW9
1	399	VAL	ALA	conflict	UNP A0A7S9SVW9
2	109	ASN	SER	conflict	UNP A0A7S9SVW9
2	301	GLY	GLU	conflict	UNP A0A7S9SVW9
2	399	VAL	ALA	conflict	UNP A0A7S9SVW9
3	109	ASN	SER	conflict	UNP A0A7S9SVW9
3	301	GLY	GLU	conflict	UNP A0A7S9SVW9
3	399	VAL	ALA	conflict	UNP A0A7S9SVW9
4	109	ASN	SER	conflict	UNP A0A7S9SVW9
4	301	GLY	GLU	conflict	UNP A0A7S9SVW9
4	399	VAL	ALA	conflict	UNP A0A7S9SVW9
5	109	ASN	SER	conflict	UNP A0A7S9SVW9
5	301	GLY	GLU	conflict	UNP A0A7S9SVW9
5	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AD	109	ASN	SER	conflict	UNP A0A7S9SVW9
AD	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AD	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AK	109	ASN	SER	conflict	UNP A0A7S9SVW9
AK	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AK	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AL	109	ASN	SER	conflict	UNP A0A7S9SVW9
AL	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AL	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AM	109	ASN	SER	conflict	UNP A0A7S9SVW9
AM	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AM	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AN	109	ASN	SER	conflict	UNP A0A7S9SVW9
AN	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AN	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AO	109	ASN	SER	conflict	UNP A0A7S9SVW9
AO	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AO	399	VAL	ALA	conflict	UNP A0A7S9SVW9
AP	109	ASN	SER	conflict	UNP A0A7S9SVW9
AP	301	GLY	GLU	conflict	UNP A0A7S9SVW9
AP	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B1	109	ASN	SER	conflict	UNP A0A7S9SVW9
B1	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B1	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B2	109	ASN	SER	conflict	UNP A0A7S9SVW9
B2	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B2	399	VAL	ALA	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
B3	109	ASN	SER	conflict	UNP A0A7S9SVW9
B3	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B3	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B4	109	ASN	SER	conflict	UNP A0A7S9SVW9
B4	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B4	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B5	109	ASN	SER	conflict	UNP A0A7S9SVW9
B5	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B5	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B6	109	ASN	SER	conflict	UNP A0A7S9SVW9
B6	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B6	399	VAL	ALA	conflict	UNP A0A7S9SVW9
B7	109	ASN	SER	conflict	UNP A0A7S9SVW9
B7	301	GLY	GLU	conflict	UNP A0A7S9SVW9
B7	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bp	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bp	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bp	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bq	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bq	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bq	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Br	109	ASN	SER	conflict	UNP A0A7S9SVW9
Br	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Br	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bs	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bs	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bs	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bt	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bt	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bt	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bu	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bu	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bu	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bv	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bv	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bv	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bw	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bw	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bw	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bx	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bx	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bx	399	VAL	ALA	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
By	109	ASN	SER	conflict	UNP A0A7S9SVW9
By	301	GLY	GLU	conflict	UNP A0A7S9SVW9
By	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Bz	109	ASN	SER	conflict	UNP A0A7S9SVW9
Bz	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Bz	399	VAL	ALA	conflict	UNP A0A7S9SVW9

- Molecule 3 is a protein called gp19, tail tube protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	6	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		
3	7	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		
3	8	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		
3	9	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		
3	AA	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		
3	AE	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	AF	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	AG	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	AH	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	AI	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	AJ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	BX	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	BY	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	BZ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Ba	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bb	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Bc	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bd	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Be	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bf	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bg	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bh	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bi	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bj	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bk	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bl	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bm	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bn	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	Bo	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
3	o	162	Total	C	N	O	S	0	0
			1296	823	218	252	3		

- Molecule 4 is a protein called gpwac, fibritin.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A	79	Total	C	N	O	S	0	0
			601	373	102	125	1		
4	B	79	Total	C	N	O	S	0	0
			601	373	102	125	1		
4	C	79	Total	C	N	O	S	0	0
			601	373	102	125	1		
4	D	79	Total	C	N	O	S	0	0
			601	373	102	125	1		
4	E	79	Total	C	N	O	S	0	0
			601	373	102	125	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	G	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	H	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	I	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	J	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	K	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	L	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	M	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	N	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	O	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	P	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	Q	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	R	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	S	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	T	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	U	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	V	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	W	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	X	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	Y	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	Z	79	Total 601	C 373	N 102	O 125	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	a	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	b	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	c	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	d	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	e	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	f	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	g	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	h	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	i	79	Total 601	C 373	N 102	O 125	S 1	0	0
4	j	79	Total 601	C 373	N 102	O 125	S 1	0	0

- Molecule 5 is a protein called gp20, portal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A0	507	Total 4140	C 2611	N 717	O 790	S 22	0	0
5	A1	507	Total 4140	C 2611	N 717	O 790	S 22	0	0
5	A2	506	Total 4132	C 2607	N 715	O 788	S 22	0	0
5	A3	506	Total 4132	C 2607	N 715	O 788	S 22	0	0
5	Av	506	Total 4132	C 2607	N 715	O 788	S 22	0	0
5	Ax	506	Total 4132	C 2607	N 715	O 788	S 22	0	0
5	BA	500	Total 4074	C 2571	N 707	O 776	S 20	0	0
5	BB	488	Total 3995	C 2517	N 695	O 761	S 22	0	0
5	BD	506	Total 4132	C 2607	N 715	O 788	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	BF	506	Total	C	N	O	S	0	0
			4132	2607	715	788	22		
5	BG	497	Total	C	N	O	S	0	0
			4039	2549	702	768	20		
5	BH	506	Total	C	N	O	S	0	0
			4091	2582	710	779	20		

- Molecule 6 is a protein called gp23, major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A4	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	A5	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	A7	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	A8	440	Total	C	N	O	S	0	0
			3311	2099	564	633	15		
6	A9	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	AV	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	AW	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	AX	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	AZ	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ac	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ad	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ae	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Af	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ag	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ah	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ai	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	Aj	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ak	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Am	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	An	440	Total	C	N	O	S	0	0
			3311	2099	564	633	15		
6	Ao	437	Total	C	N	O	S	0	0
			3291	2088	560	628	15		
6	Ap	440	Total	C	N	O	S	0	0
			3311	2099	564	633	15		
6	Au	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Aw	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Ay	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	Az	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	BI	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	BJ	437	Total	C	N	O	S	0	0
			3291	2088	560	628	15		
6	BK	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		
6	BM	456	Total	C	N	O	S	0	0
			3425	2167	584	659	15		

- Molecule 7 is a protein called gp13, neck protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A6	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	AY	308	Total	C	N	O	S	0	0
			2435	1550	412	460	13		
7	Aa	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	Ab	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	Al	308	Total	C	N	O	S	0	0
			2435	1550	412	460	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Aq	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	Ar	290	Total	C	N	O	S	0	0
			2310	1473	389	437	11		
7	As	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	At	298	Total	C	N	O	S	0	0
			2371	1512	402	445	12		
7	BC	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	BE	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		
7	BL	308	Total	C	N	O	S	0	0
			2438	1551	413	461	13		

- Molecule 8 is a protein called gp15, tail terminator protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AB	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		
8	q	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		
8	r	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		
8	s	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		
8	t	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		
8	u	272	Total	C	N	O	S	0	0
			2227	1424	369	425	9		

- Molecule 9 is a protein called gp3, tube terminator protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AC	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		
9	v	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		
9	w	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		
9	x	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	y	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		
9	z	175	Total	C	N	O	S	0	0
			1383	890	215	274	4		

- Molecule 10 is a protein called Hoc, highly immunogenic outer capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AQ	96	Total	C	N	O	S	0	0
			805	519	129	152	5		
10	AR	96	Total	C	N	O	S	0	0
			805	519	129	152	5		
10	AS	96	Total	C	N	O	S	0	0
			805	519	129	152	5		
10	AT	96	Total	C	N	O	S	0	0
			805	519	129	152	5		
10	AU	96	Total	C	N	O	S	0	0
			805	519	129	152	5		

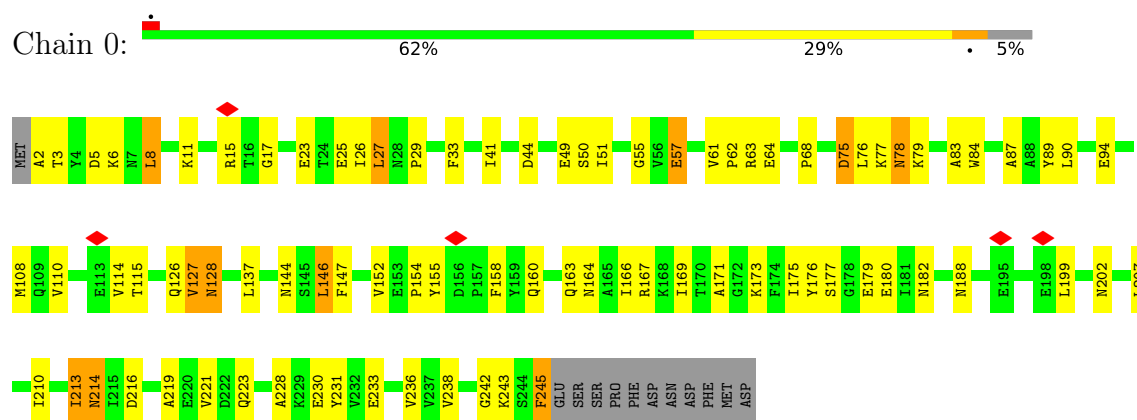
- Molecule 11 is a protein called Soc, small outer capsid protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	BN	79	Total	C	N	O	0	0
			636	405	106	125		
11	BO	79	Total	C	N	O	0	0
			636	405	106	125		
11	BP	79	Total	C	N	O	0	0
			636	405	106	125		
11	BQ	79	Total	C	N	O	0	0
			636	405	106	125		
11	BR	79	Total	C	N	O	0	0
			636	405	106	125		
11	BS	79	Total	C	N	O	0	0
			636	405	106	125		
11	BT	79	Total	C	N	O	0	0
			636	405	106	125		
11	BU	79	Total	C	N	O	0	0
			636	405	106	125		
11	BV	79	Total	C	N	O	0	0
			636	405	106	125		
11	BW	79	Total	C	N	O	0	0
			636	405	106	125		

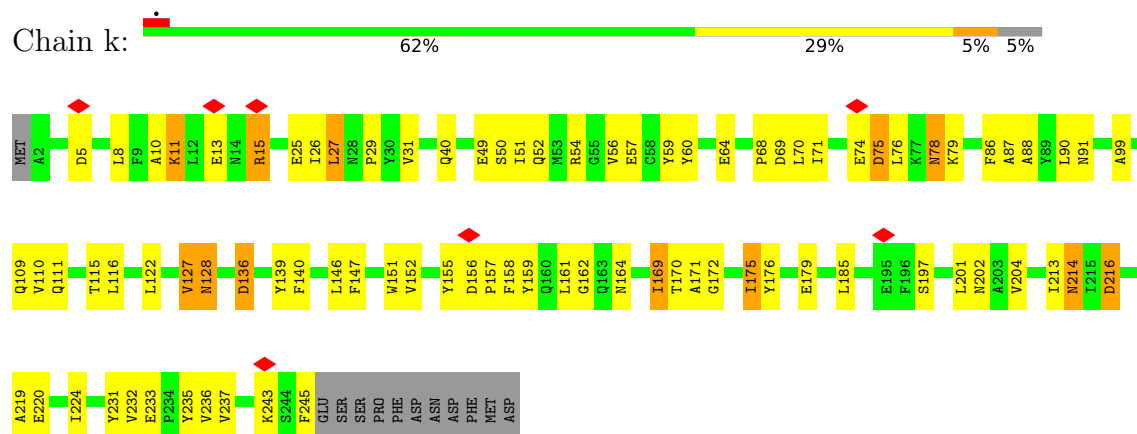
3 Residue-property plots

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.

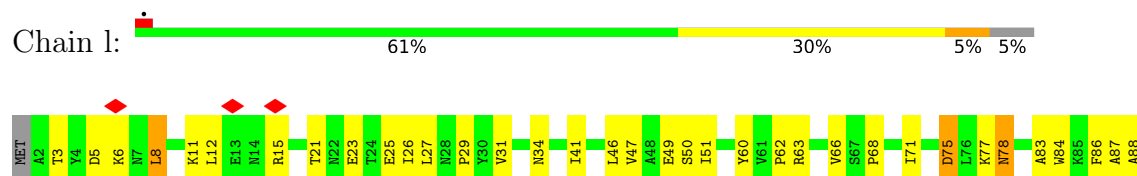
- Molecule 1: gp14, neck protein

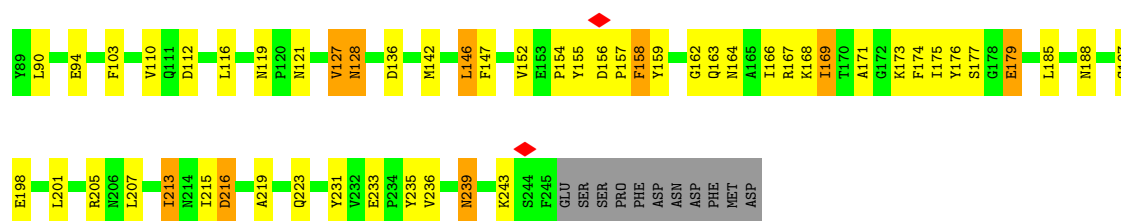


- Molecule 1: gp14, neck protein

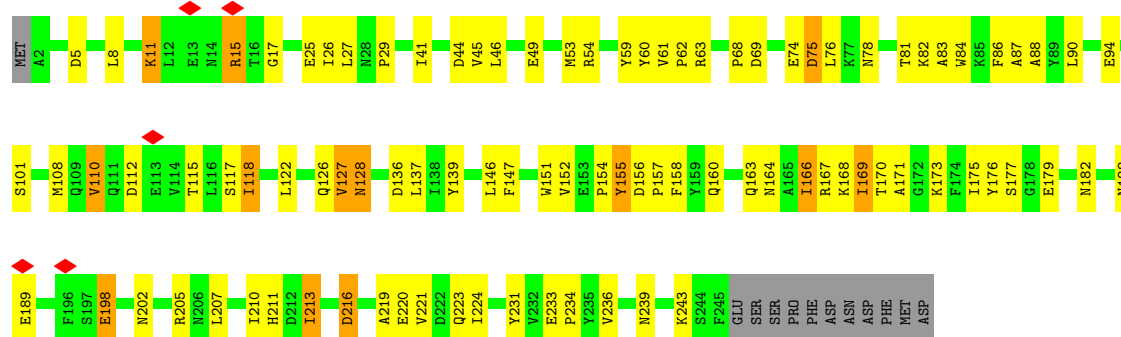


- Molecule 1: gp14, neck protein

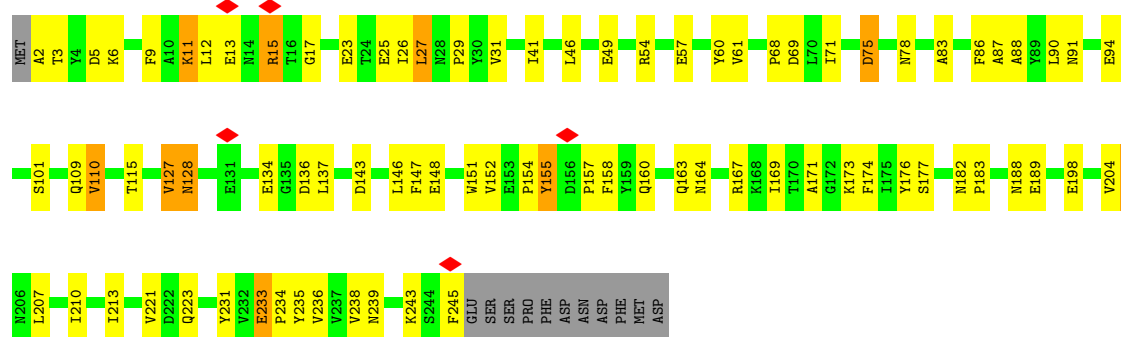




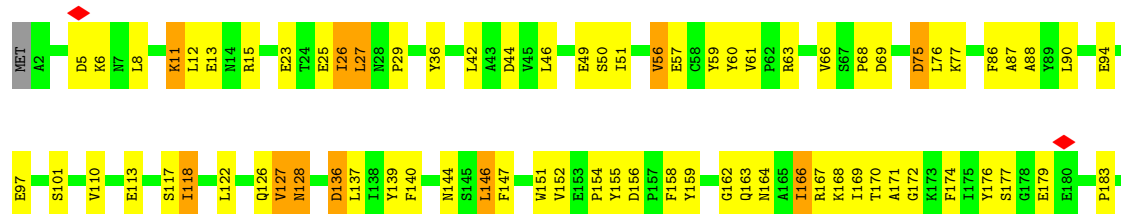
- Molecule 1: gp14, neck protein



- Molecule 1: gp14, neck protein

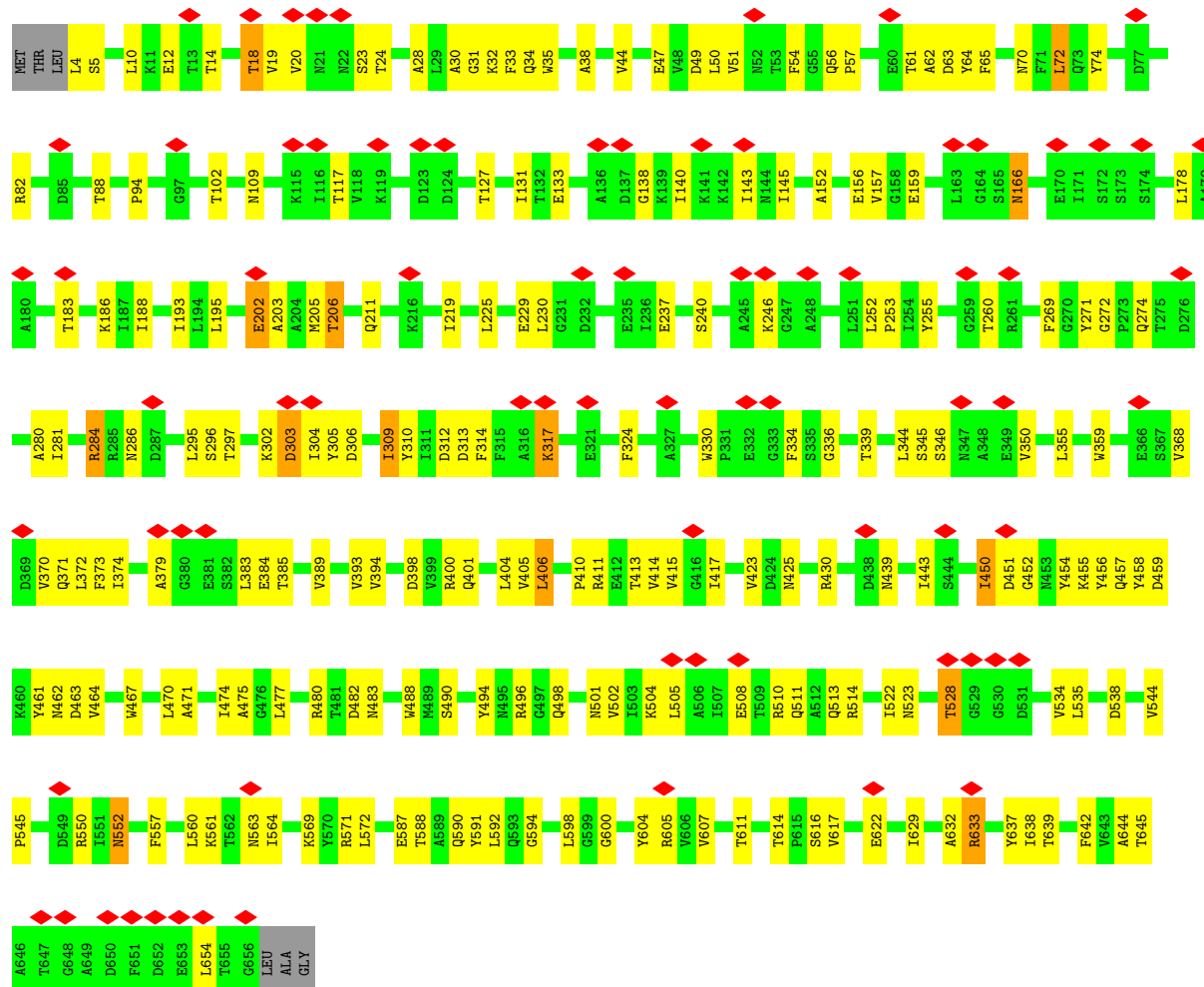


- Molecule 1: gp14, neck protein

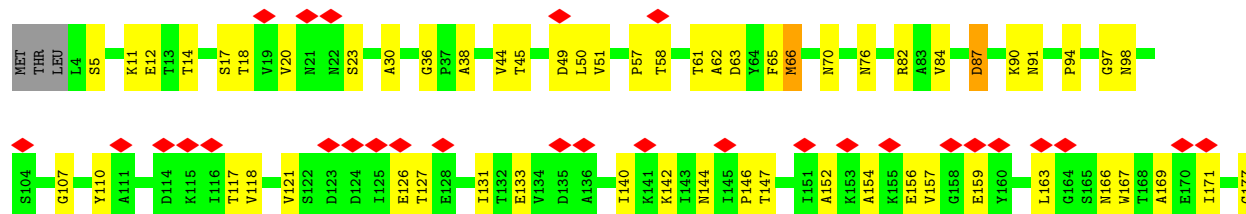


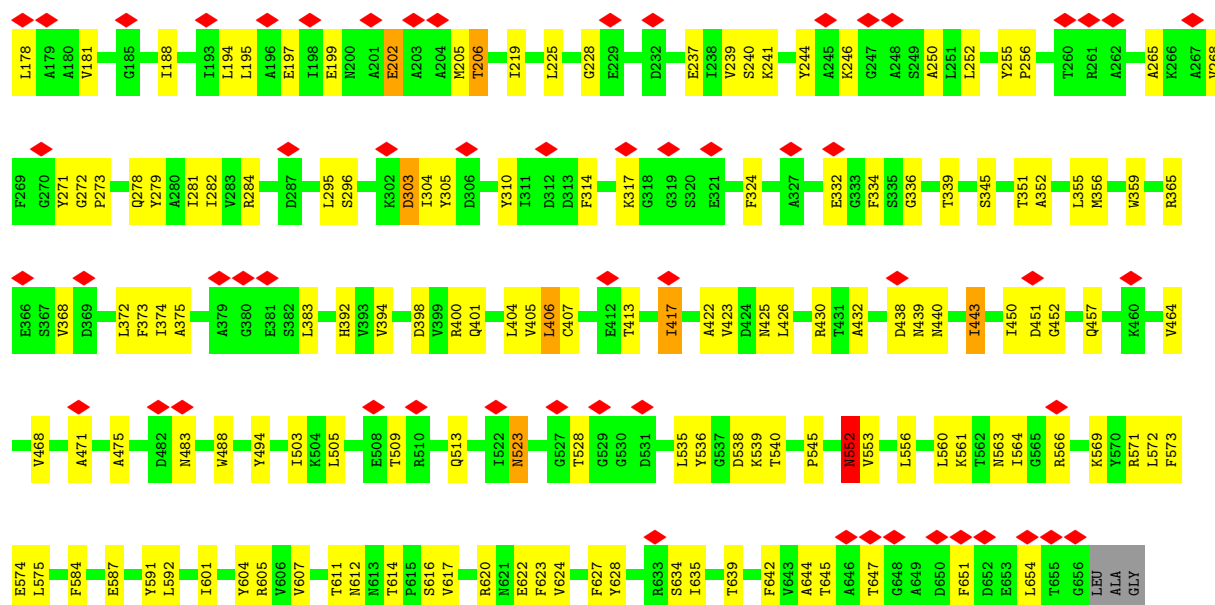


• Molecule 2: gp18, tail sheath protein

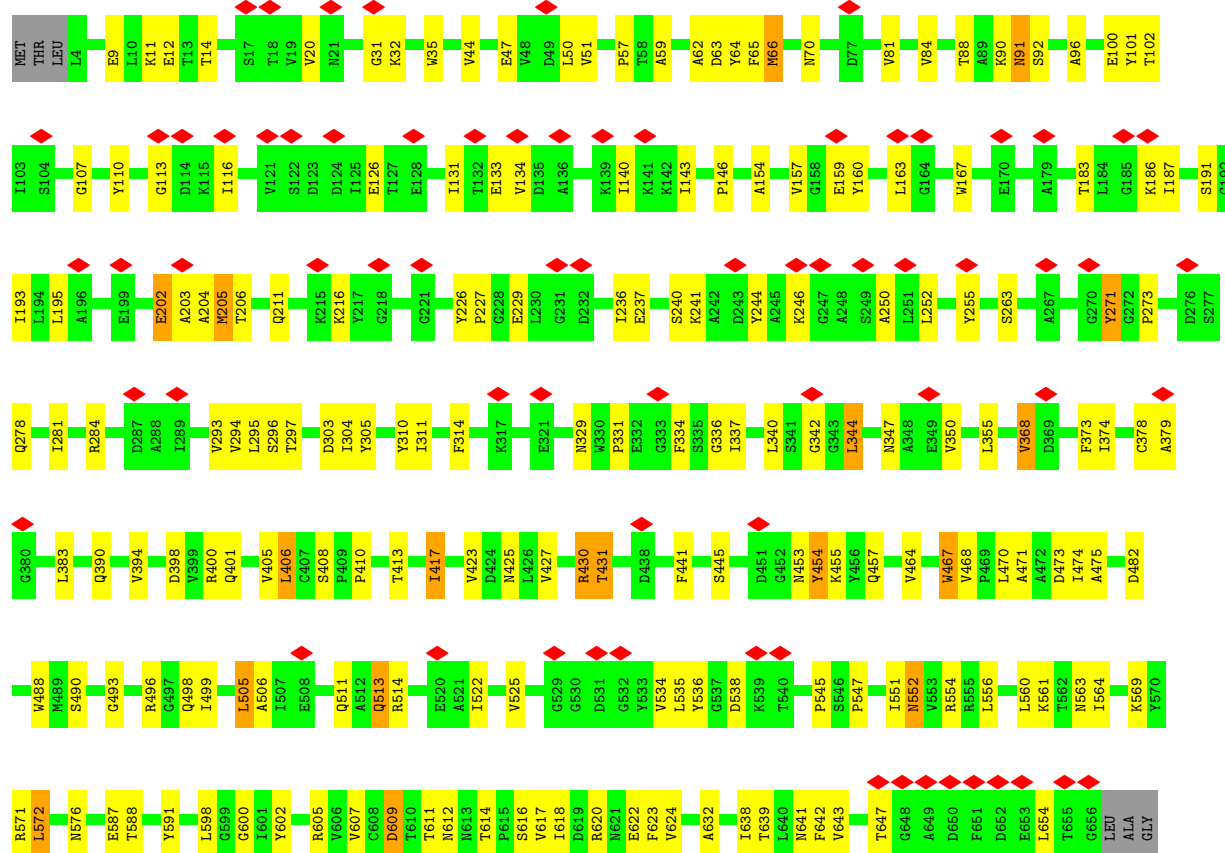


• Molecule 2: gp18, tail sheath protein

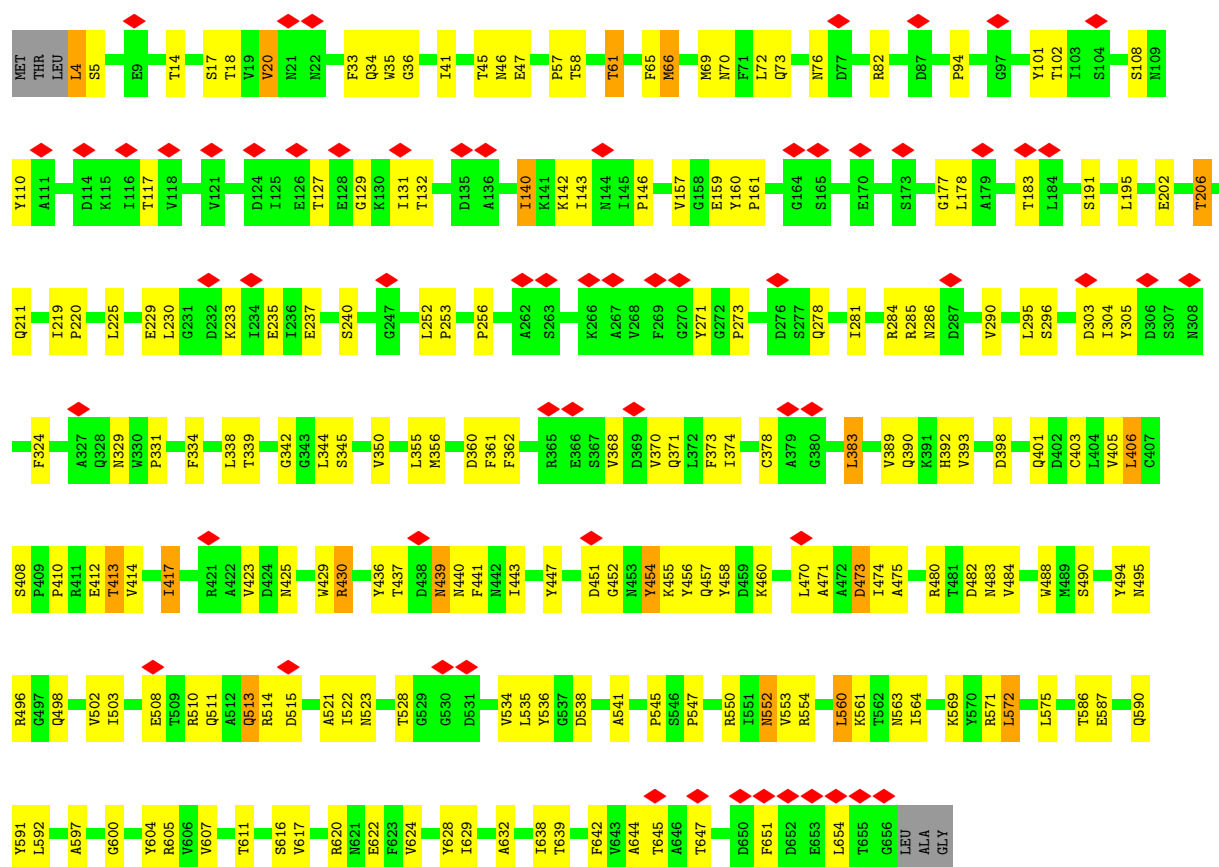




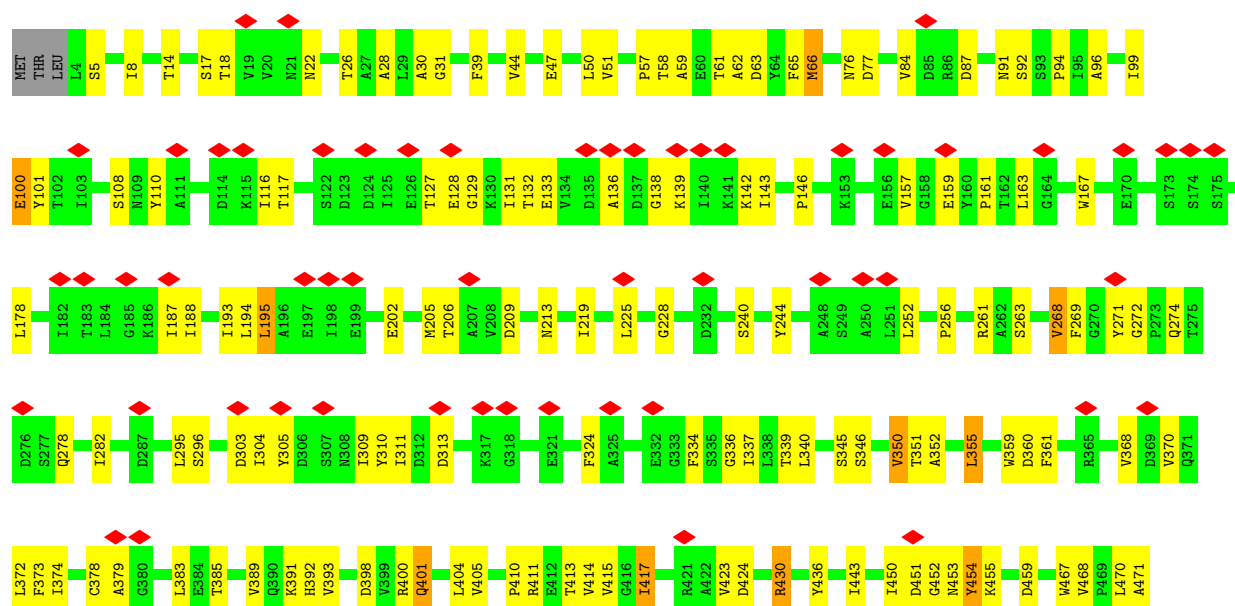
- Molecule 2: gp18, tail sheath protein

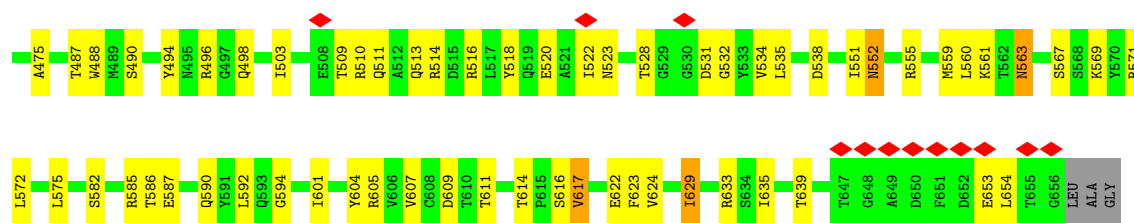


- Molecule 2: gp18, tail sheath protein

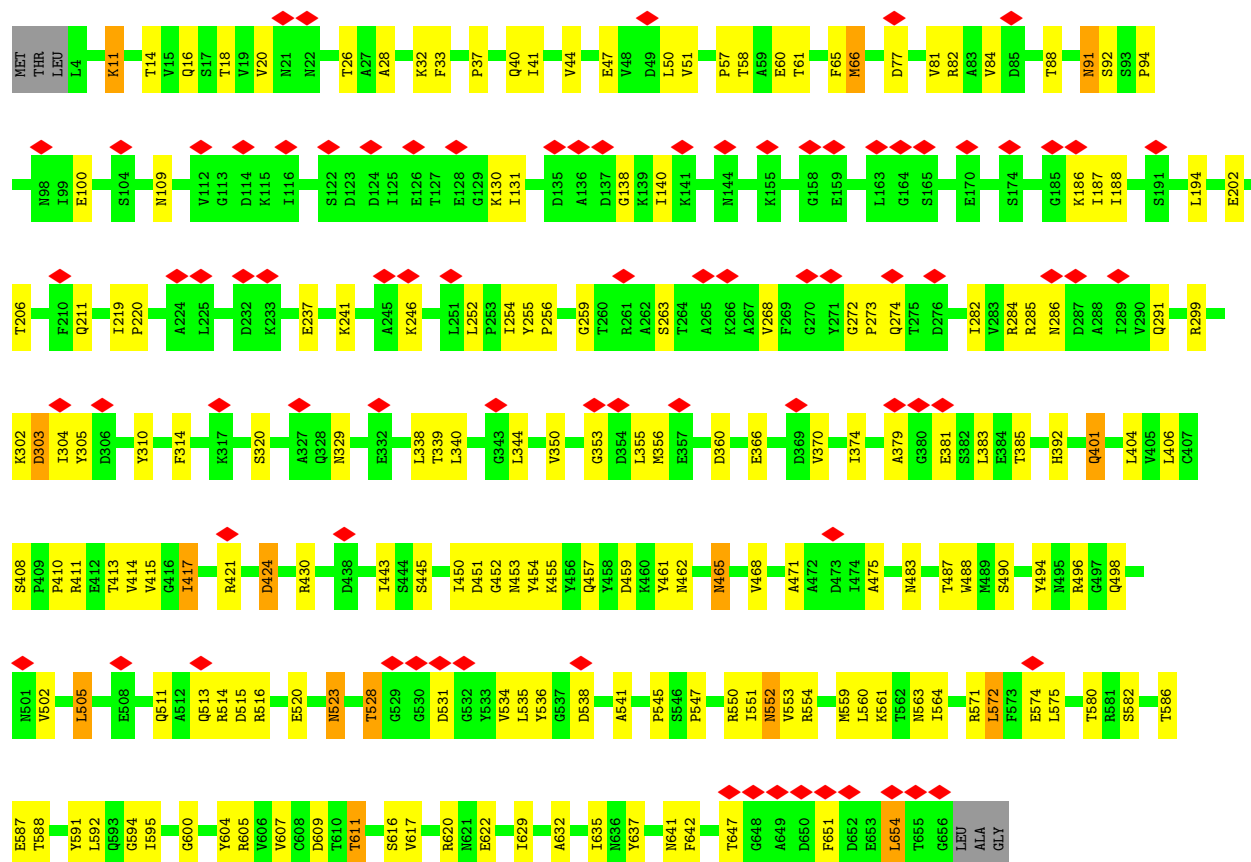
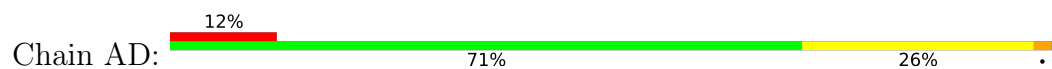


• Molecule 2: gp18, tail sheath protein

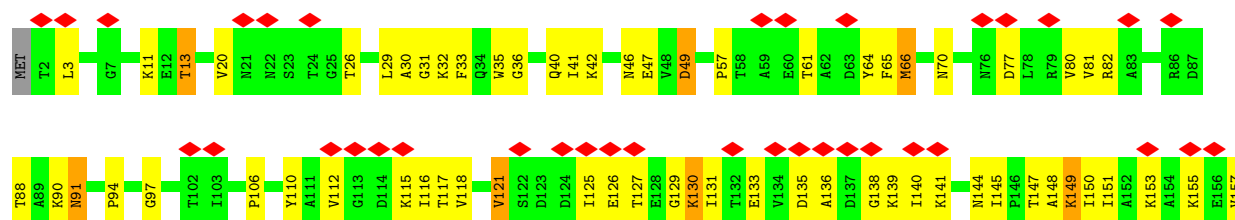


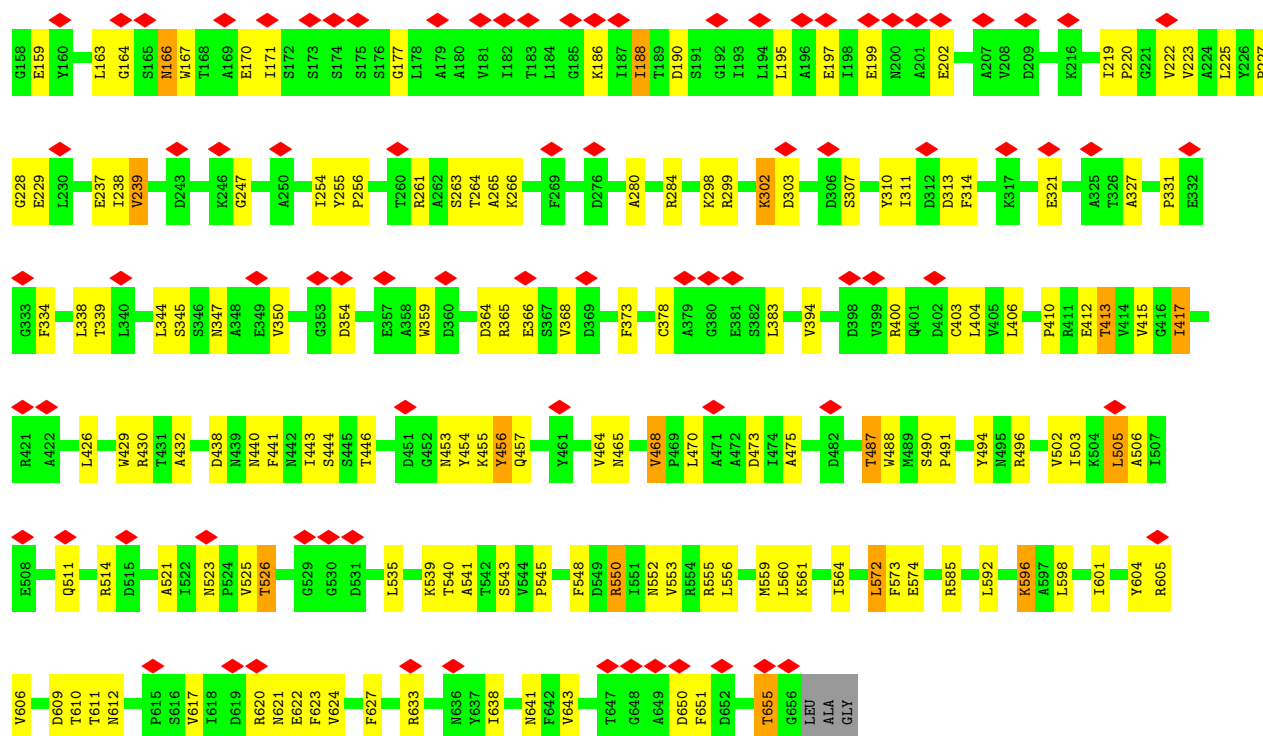


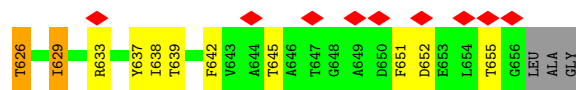
• Molecule 2: gp18, tail sheath protein



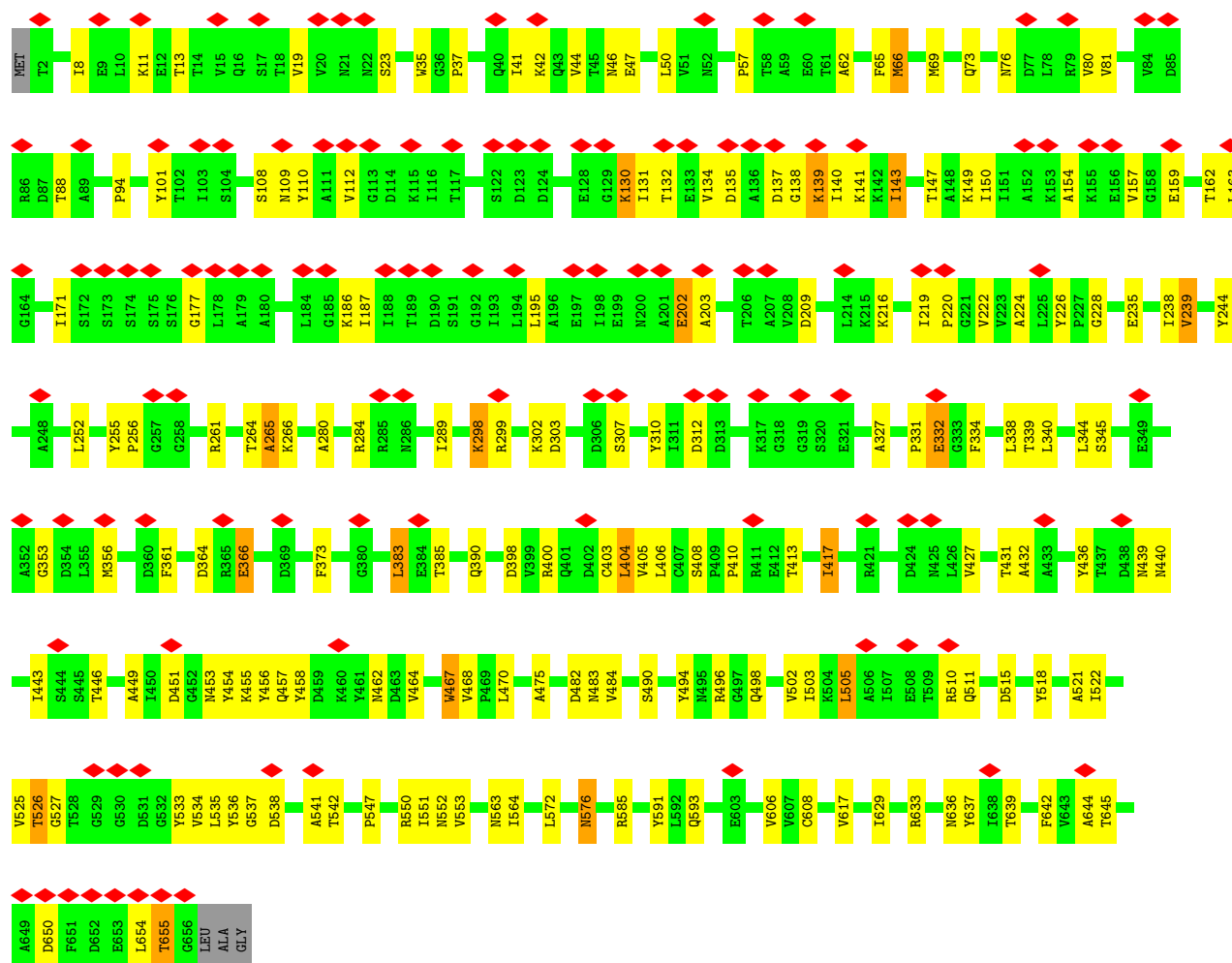
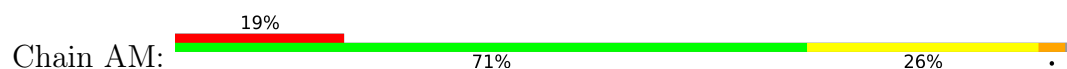
• Molecule 2: gp18, tail sheath protein



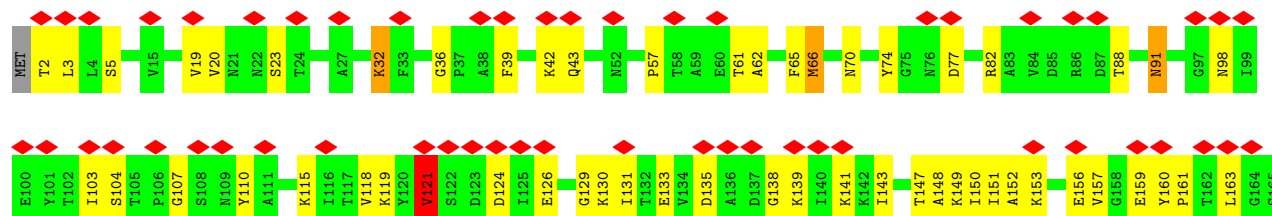


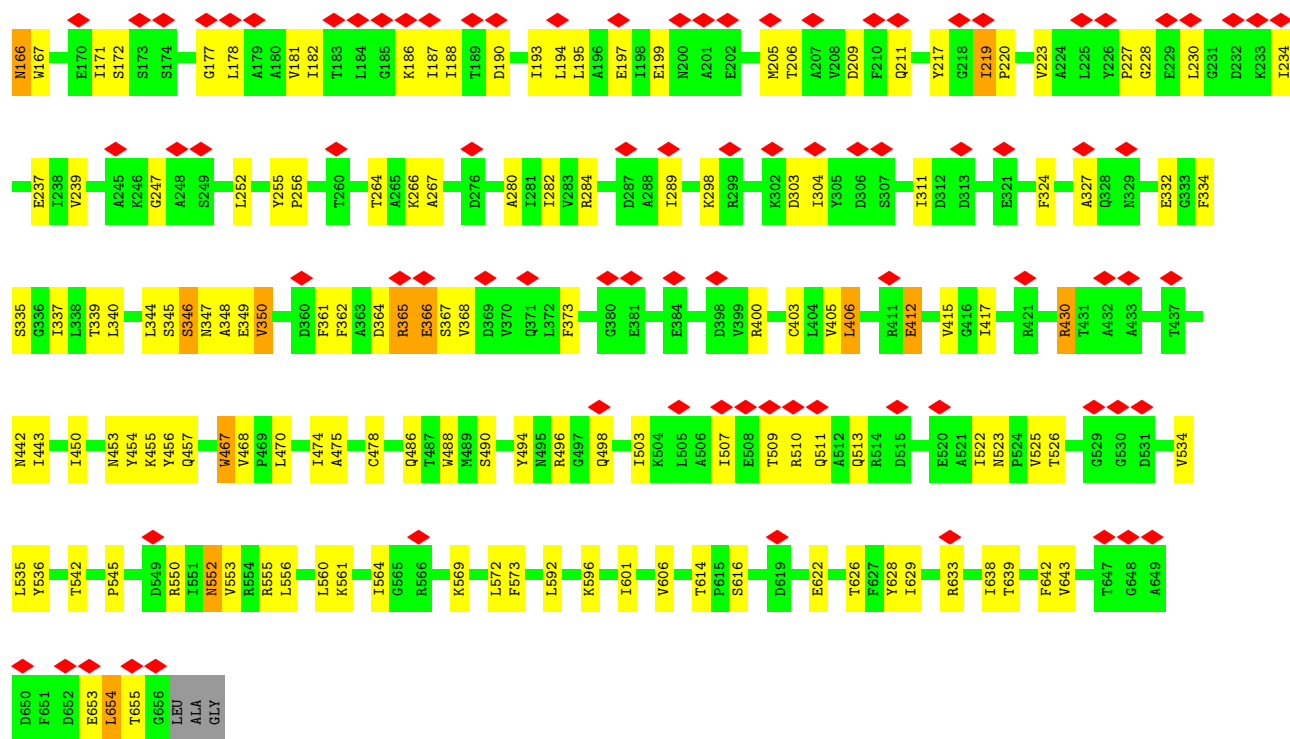


• Molecule 2: gp18, tail sheath protein

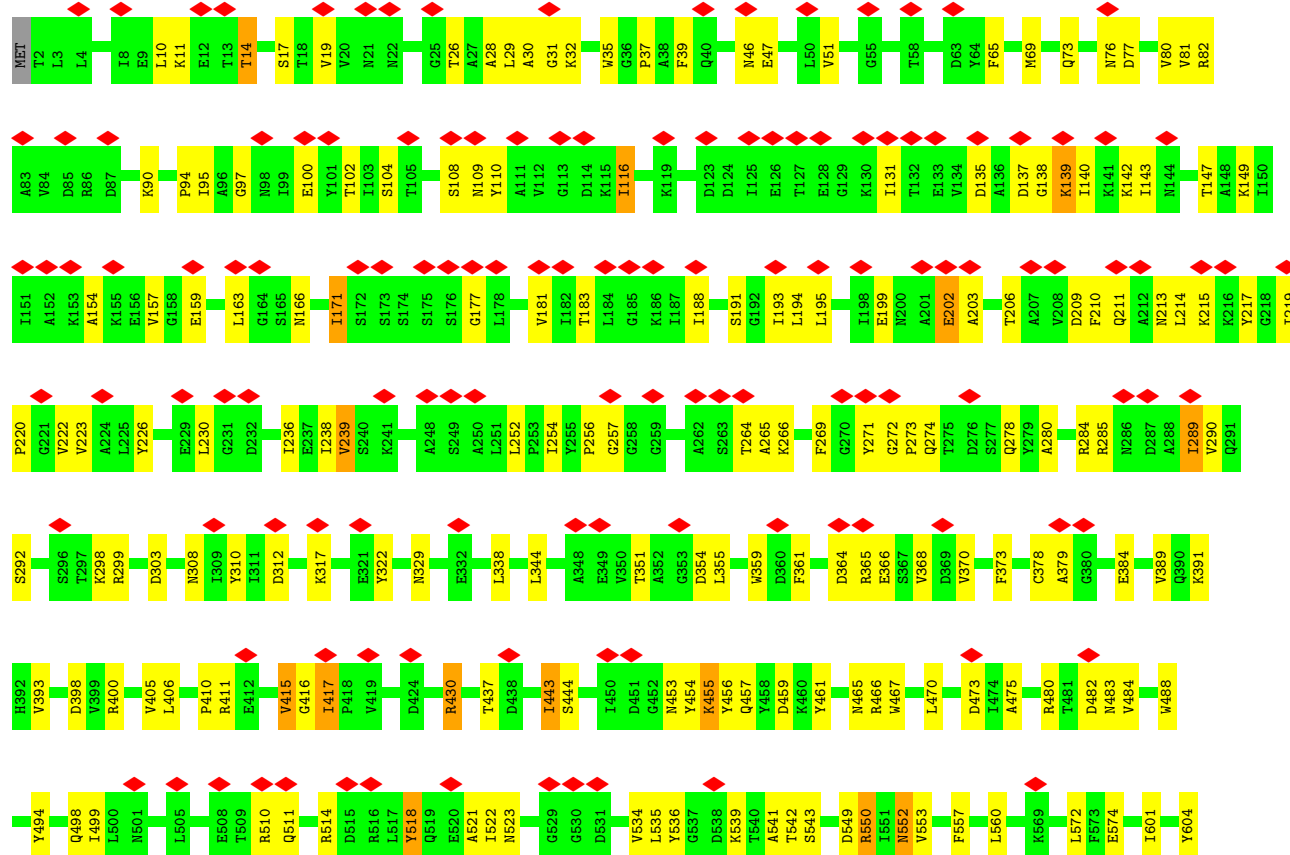


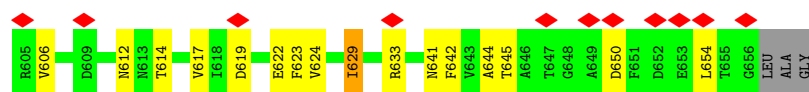
• Molecule 2: gp18, tail sheath protein





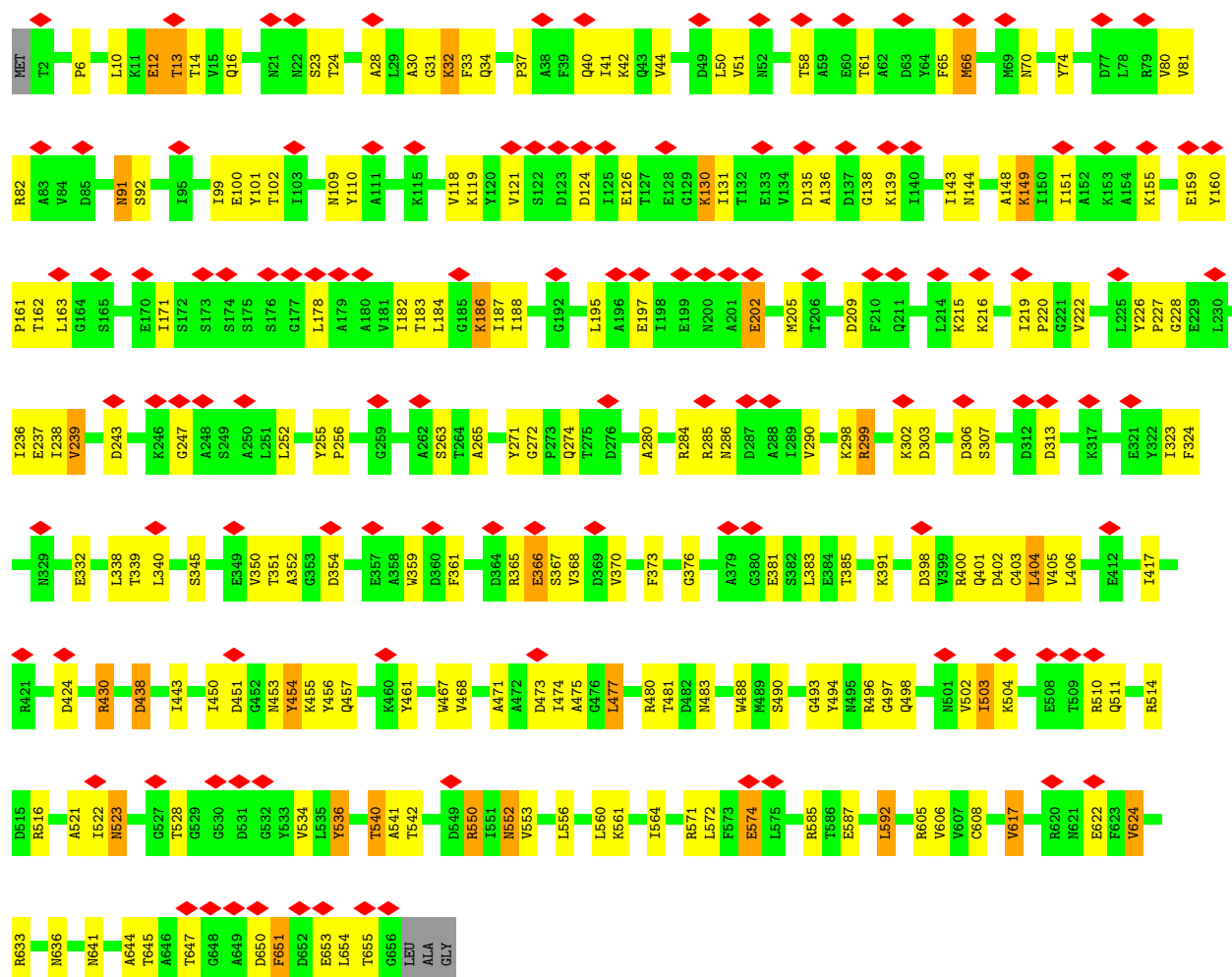
• Molecule 2: gp18, tail sheath protein





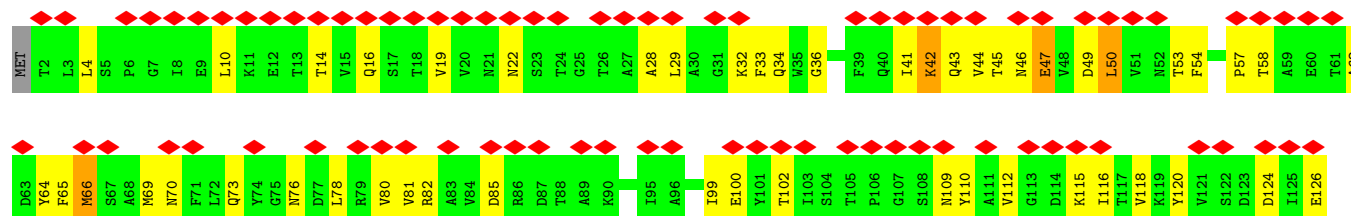
- Molecule 2: gp18, tail sheath protein

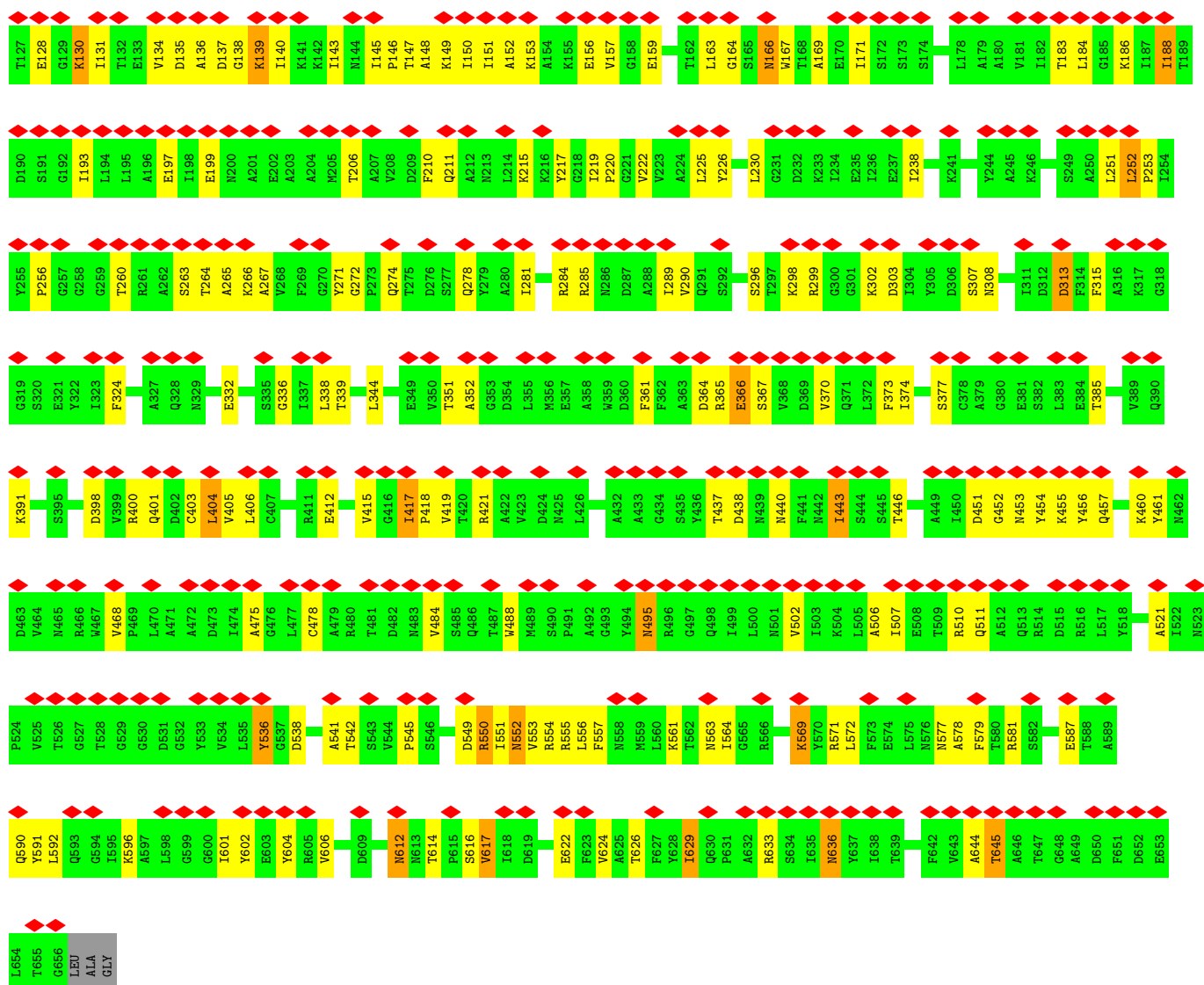
Chain AP: 19% 67% 28%



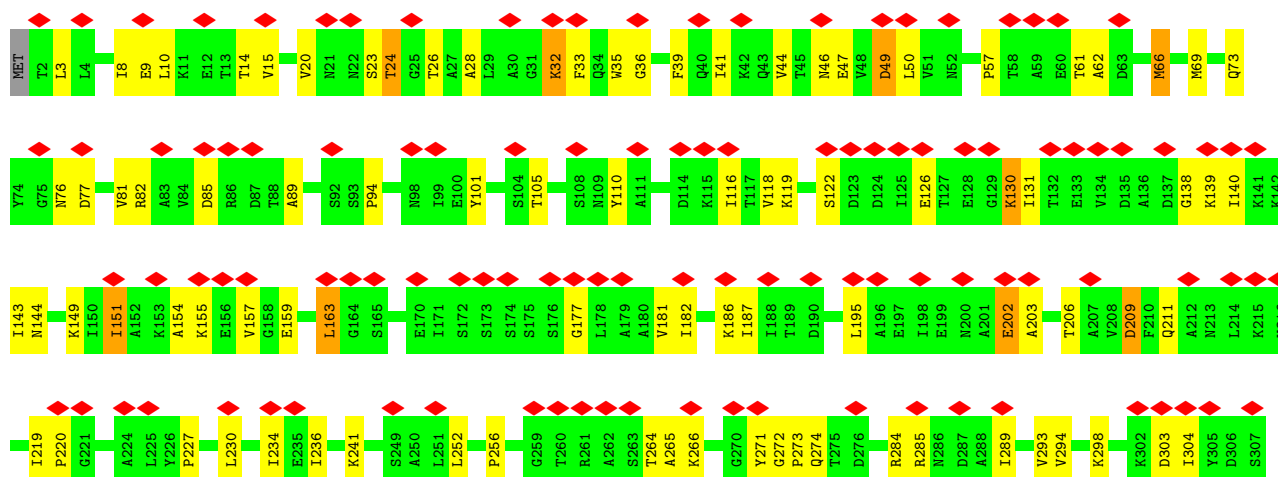
- Molecule 2: gp18, tail sheath protein

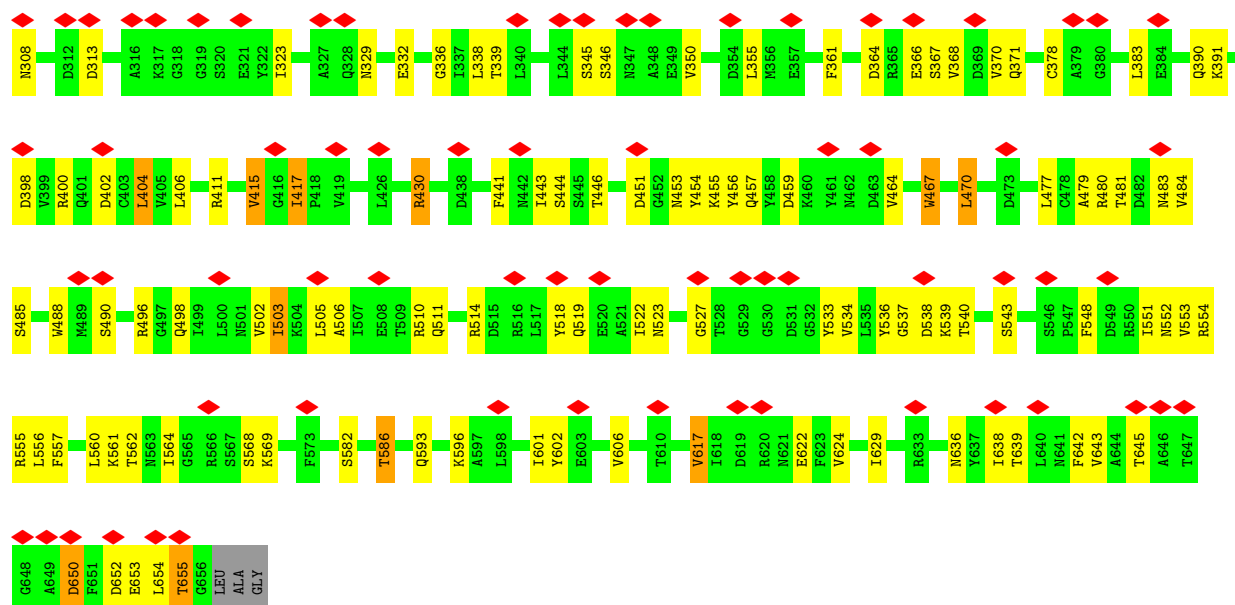
Chain B1: 60% 65% 31%



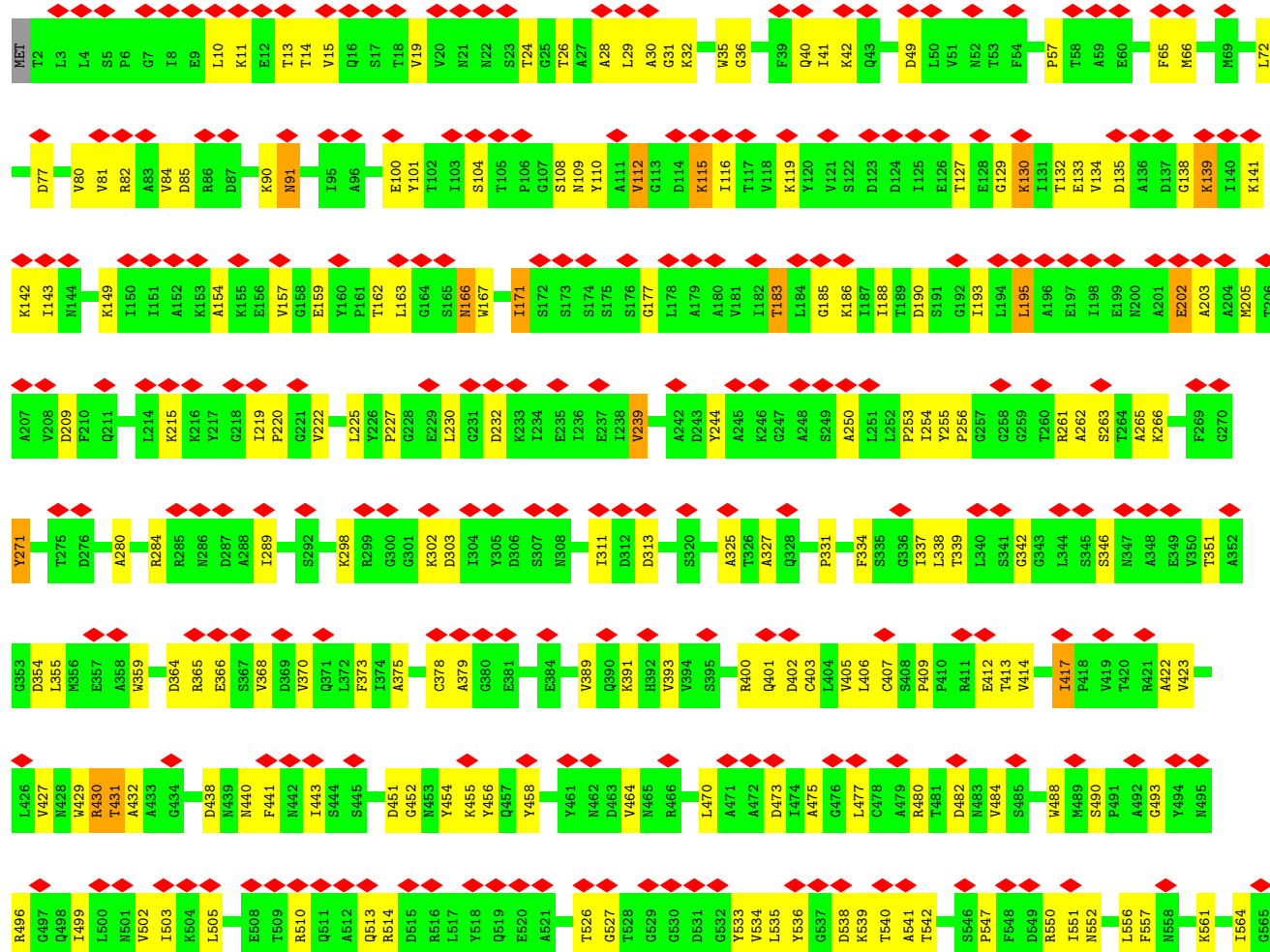


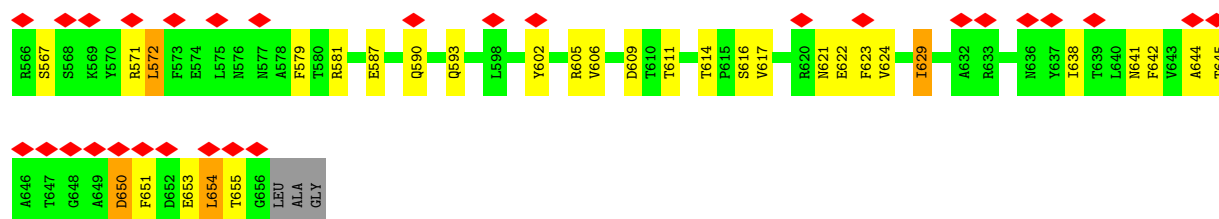
• Molecule 2: gp18, tail sheath protein



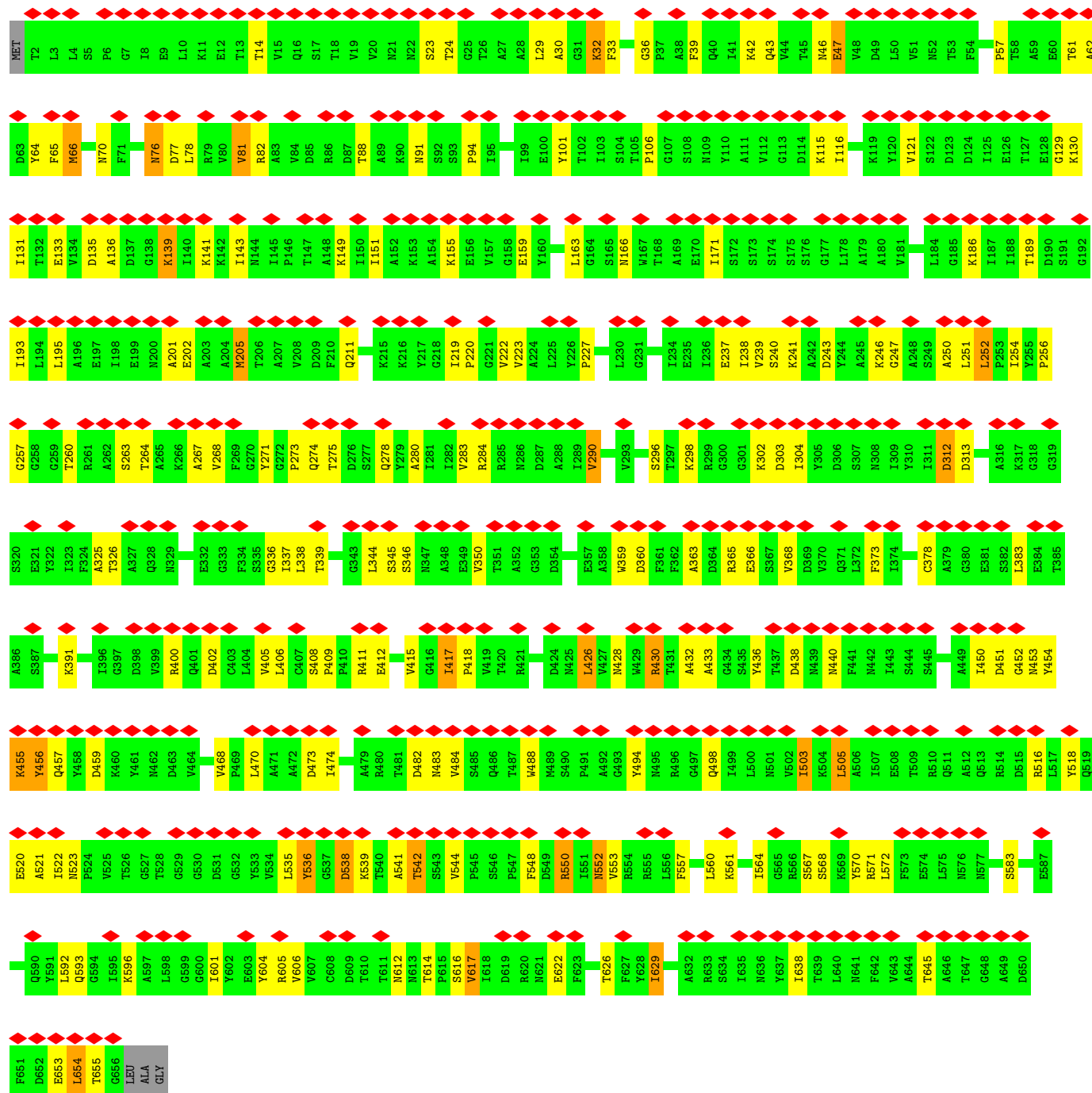


• Molecule 2: gp18, tail sheath protein



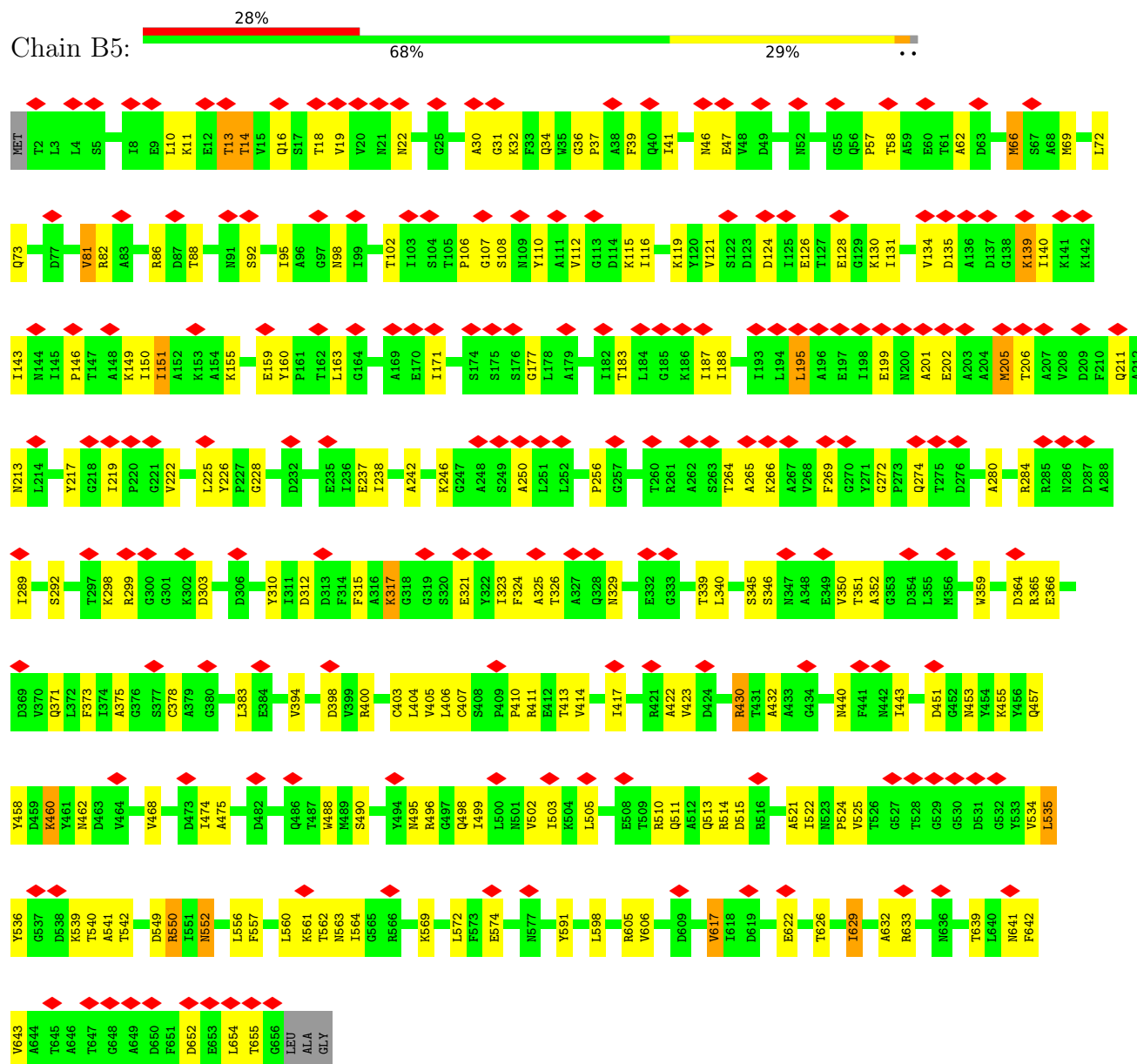


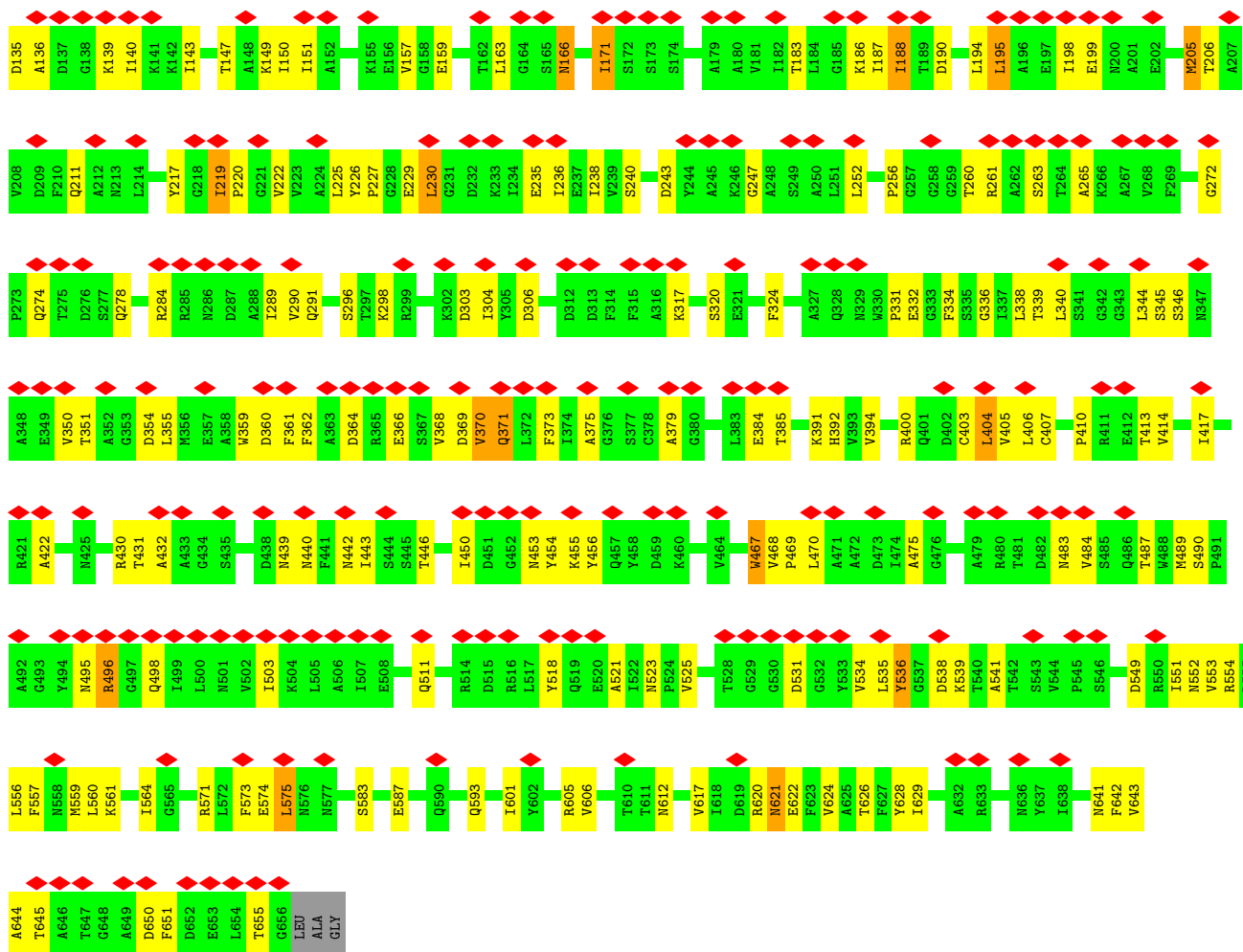
• Molecule 2: gp18, tail sheath protein

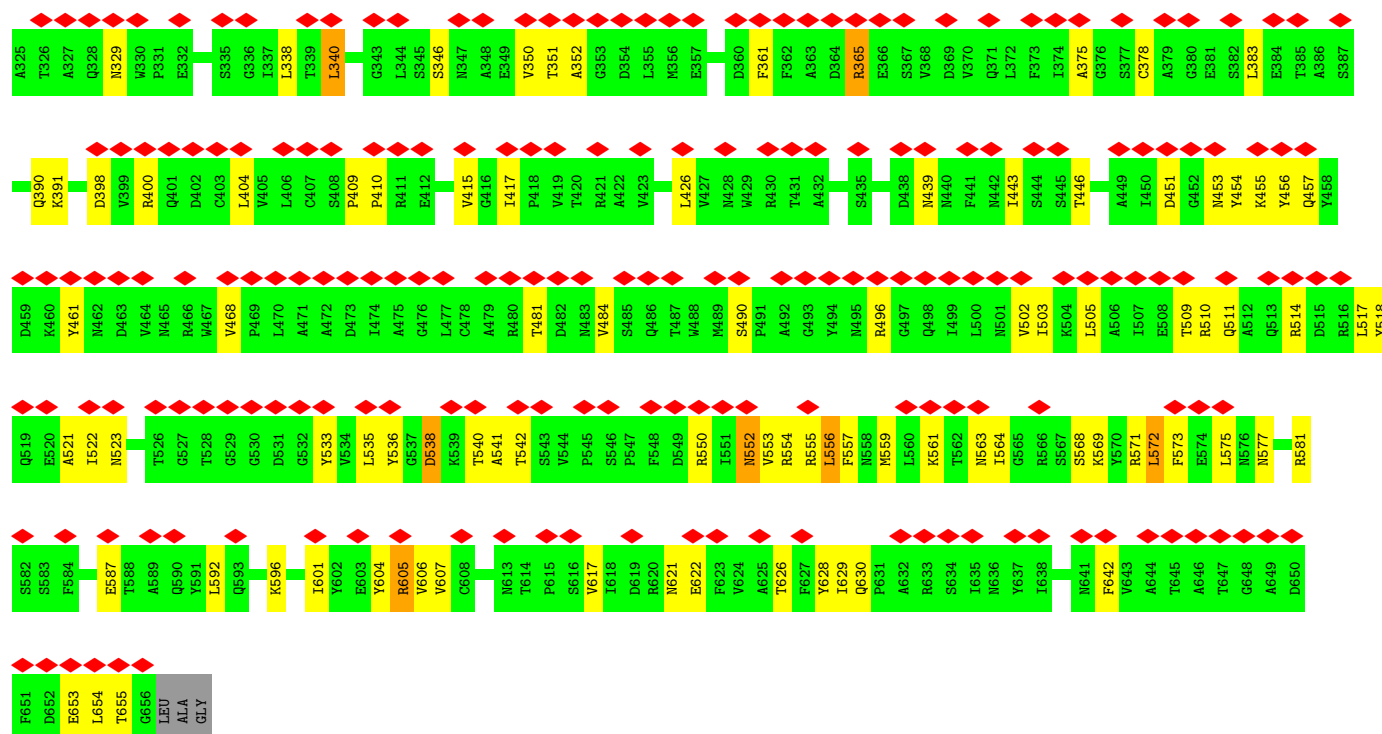


• Molecule 2: gp18, tail sheath protein

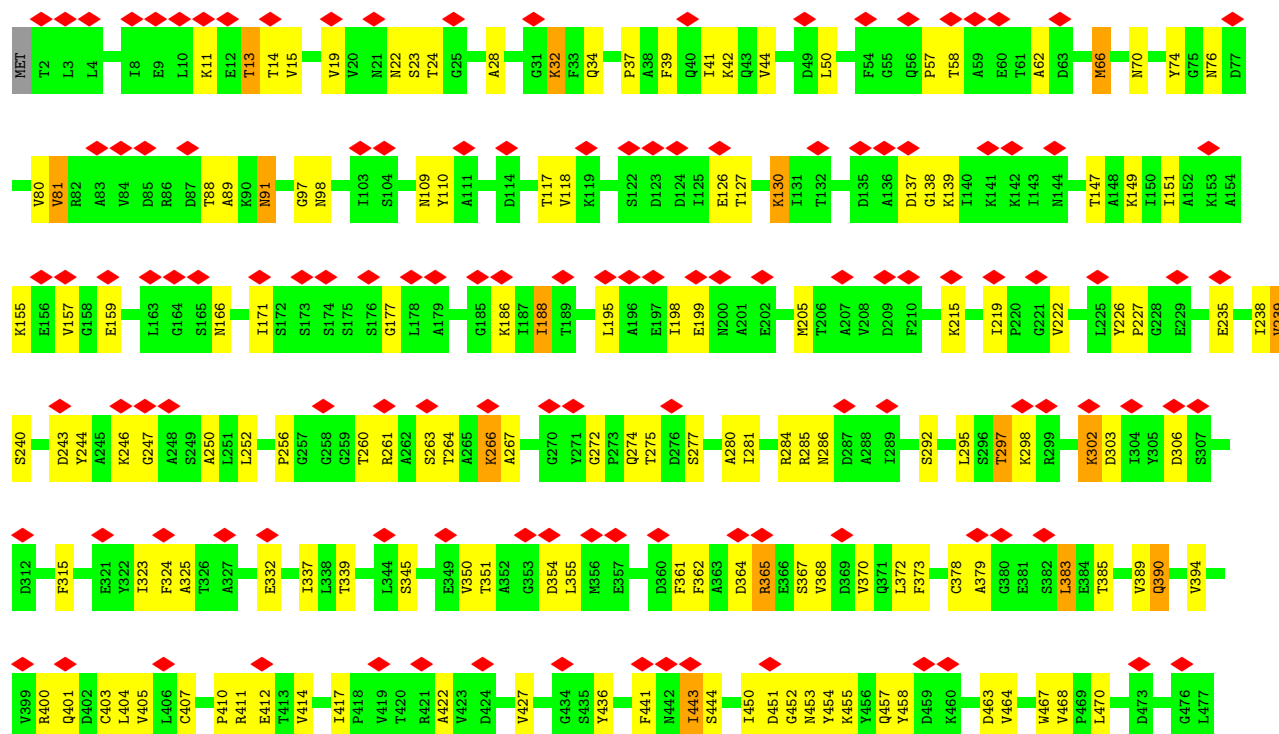
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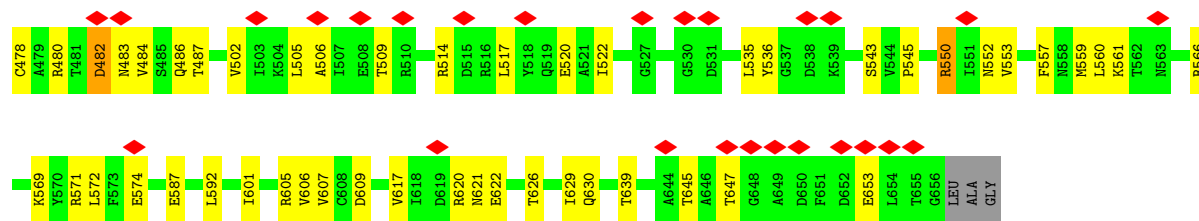




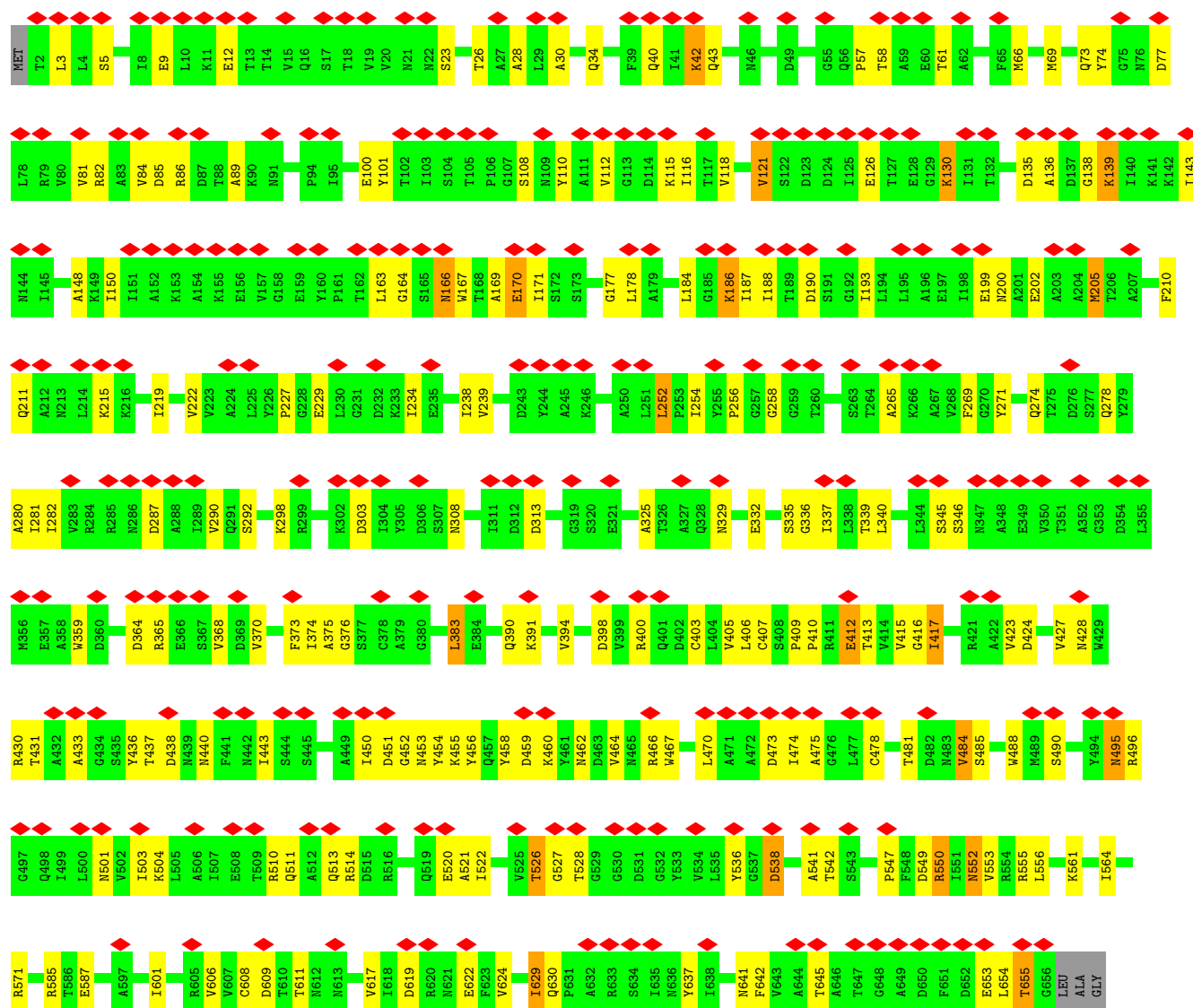


• Molecule 2: gp18, tail sheath protein



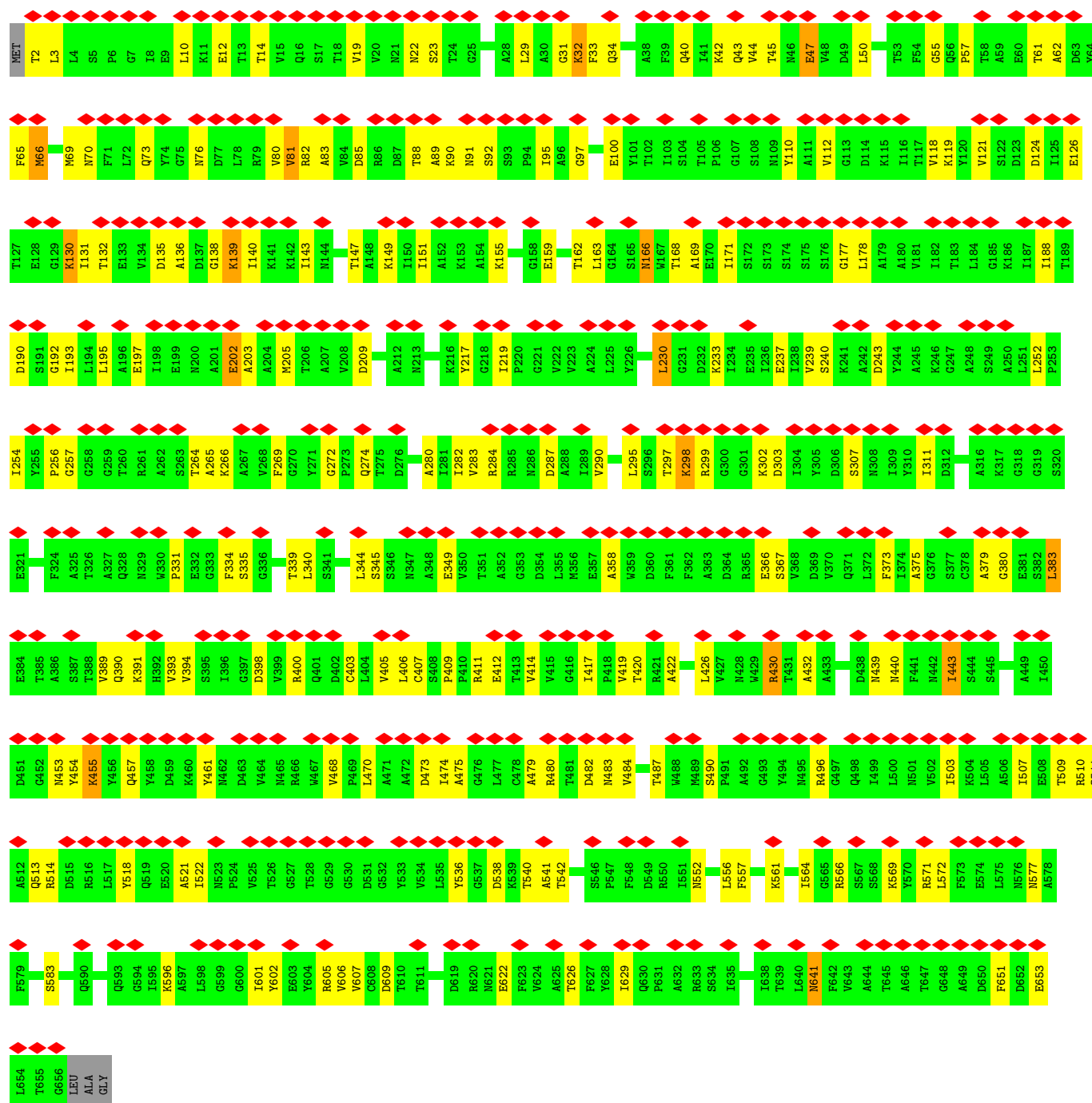


• Molecule 2: gp18, tail sheath protein

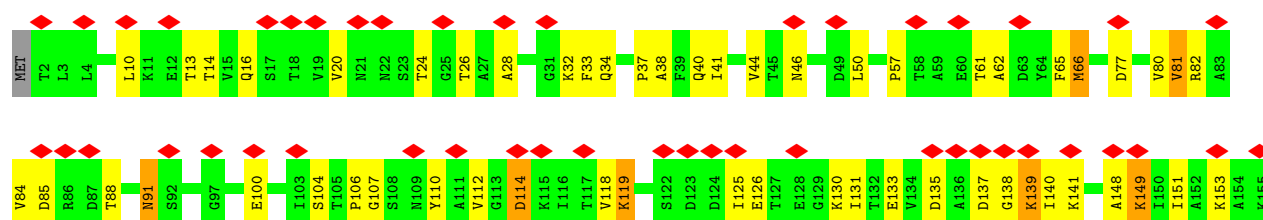


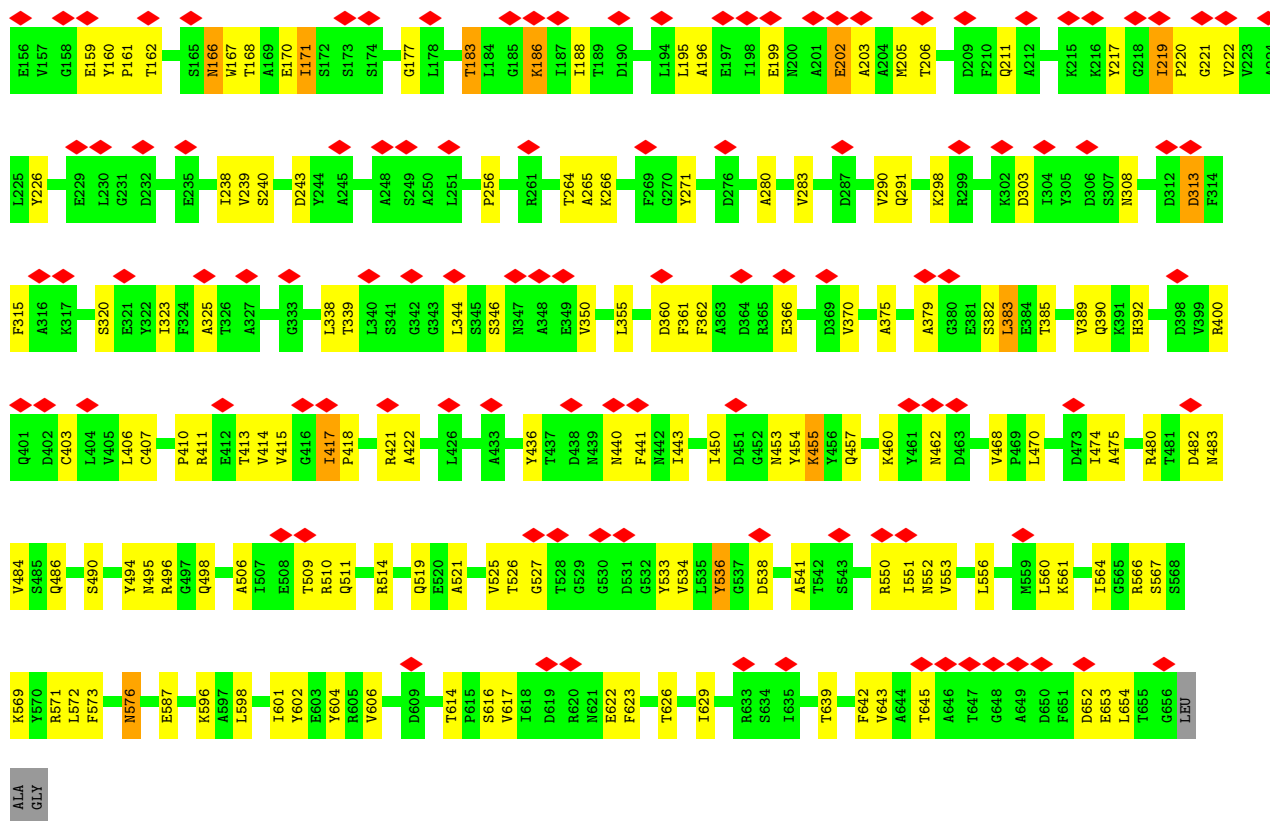
• Molecule 2: gp18, tail sheath protein



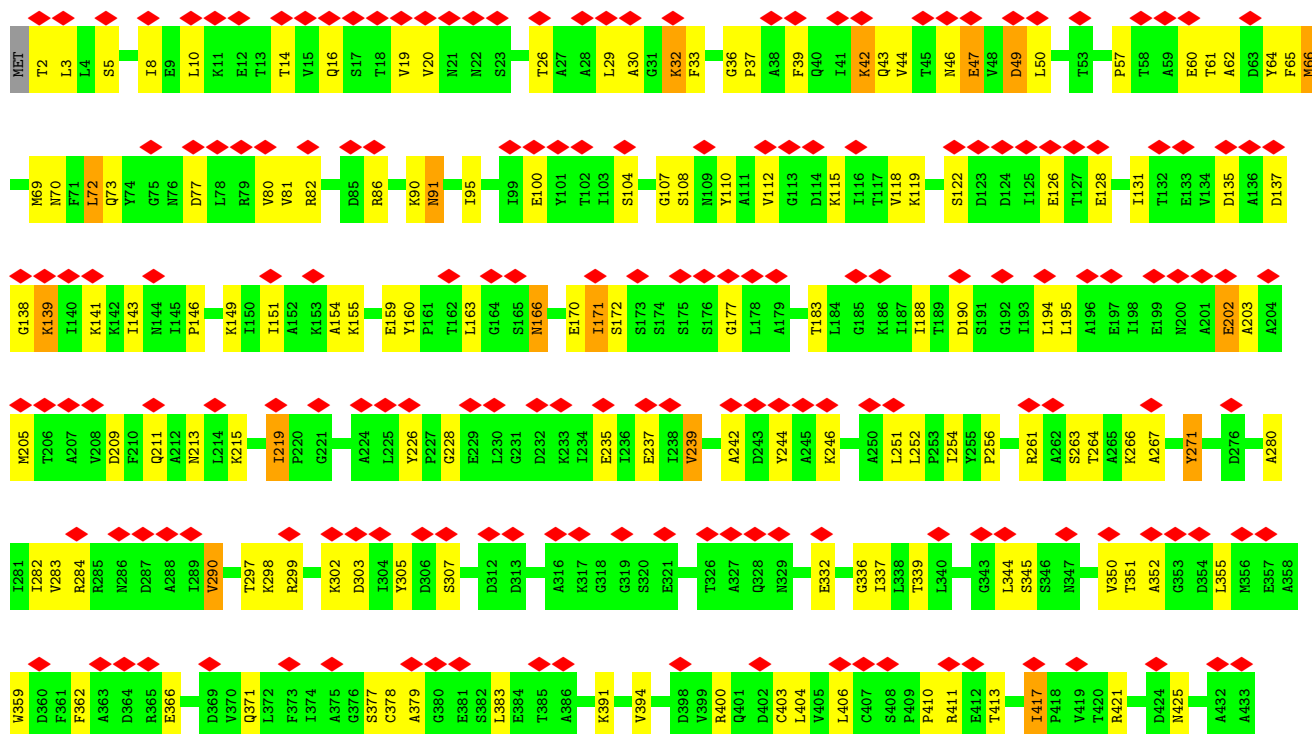


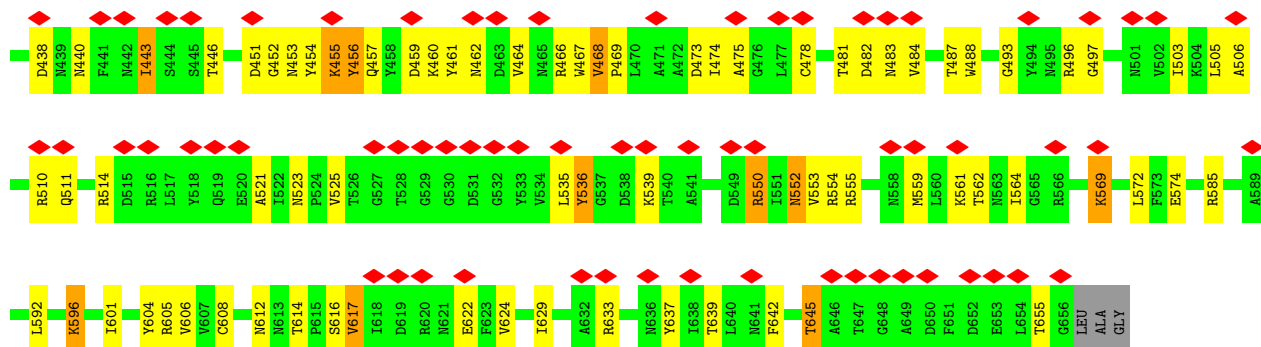
• Molecule 2: gp18, tail sheath protein



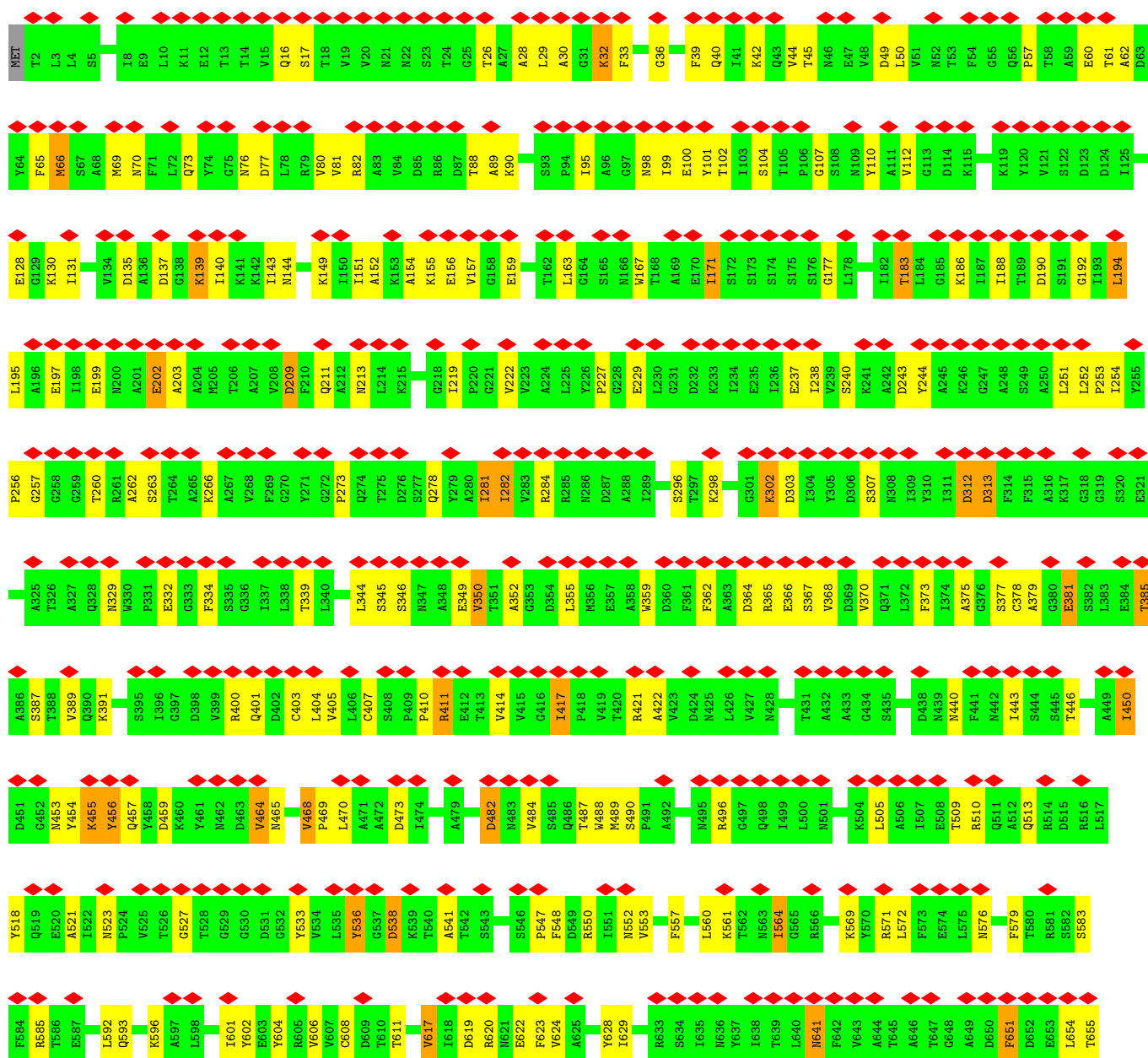


- Molecule 2: gp18, tail sheath protein



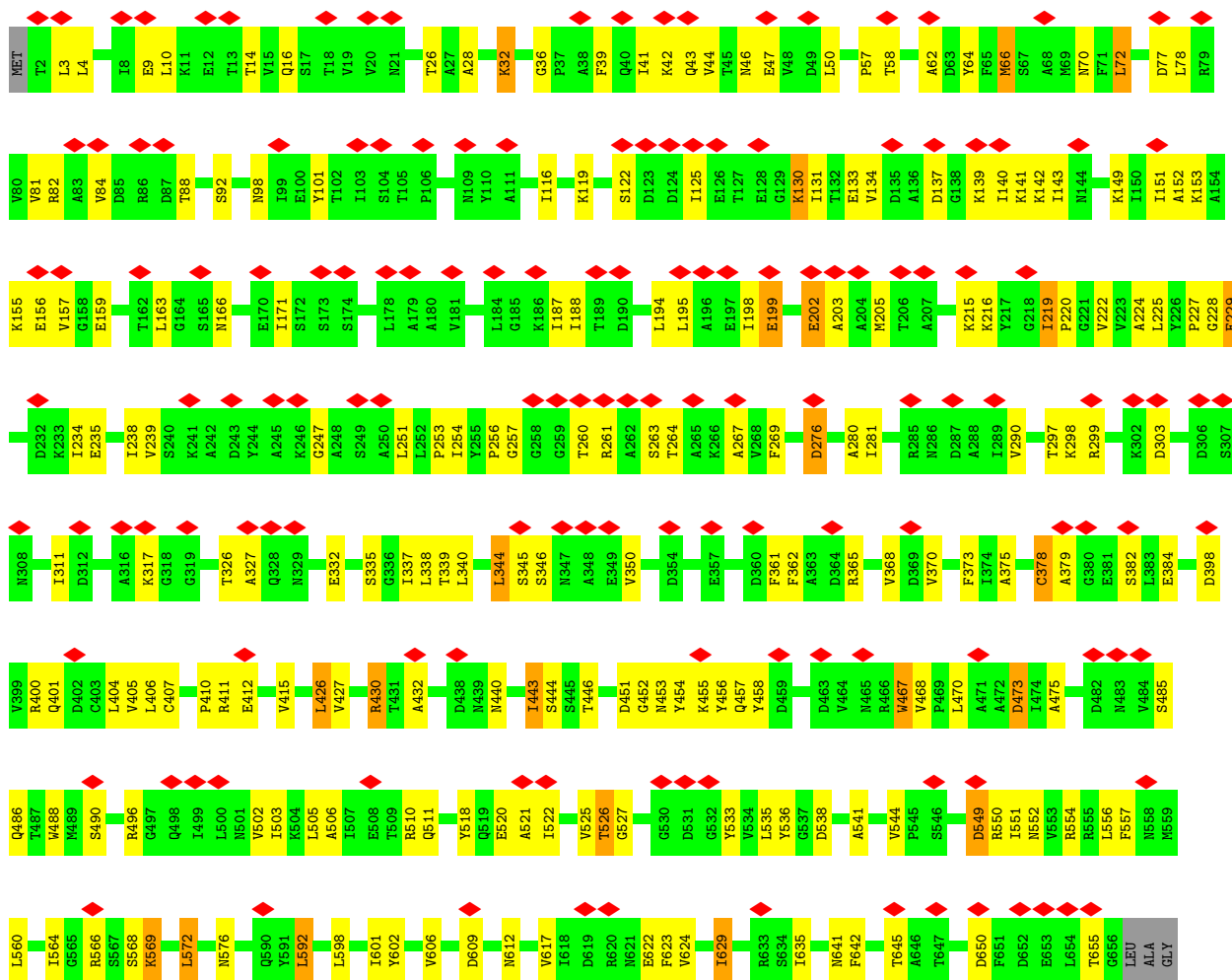


• Molecule 2: gp18, tail sheath protein

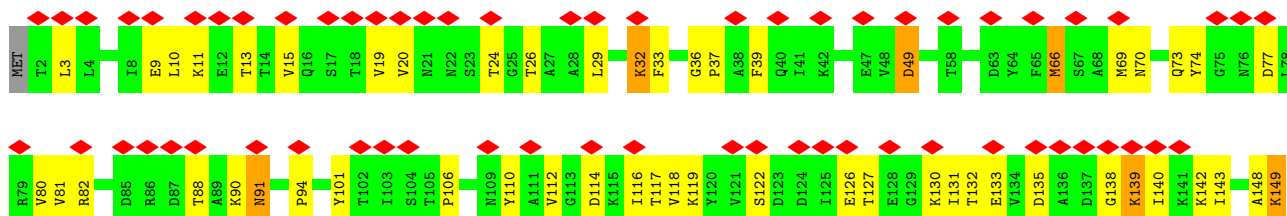


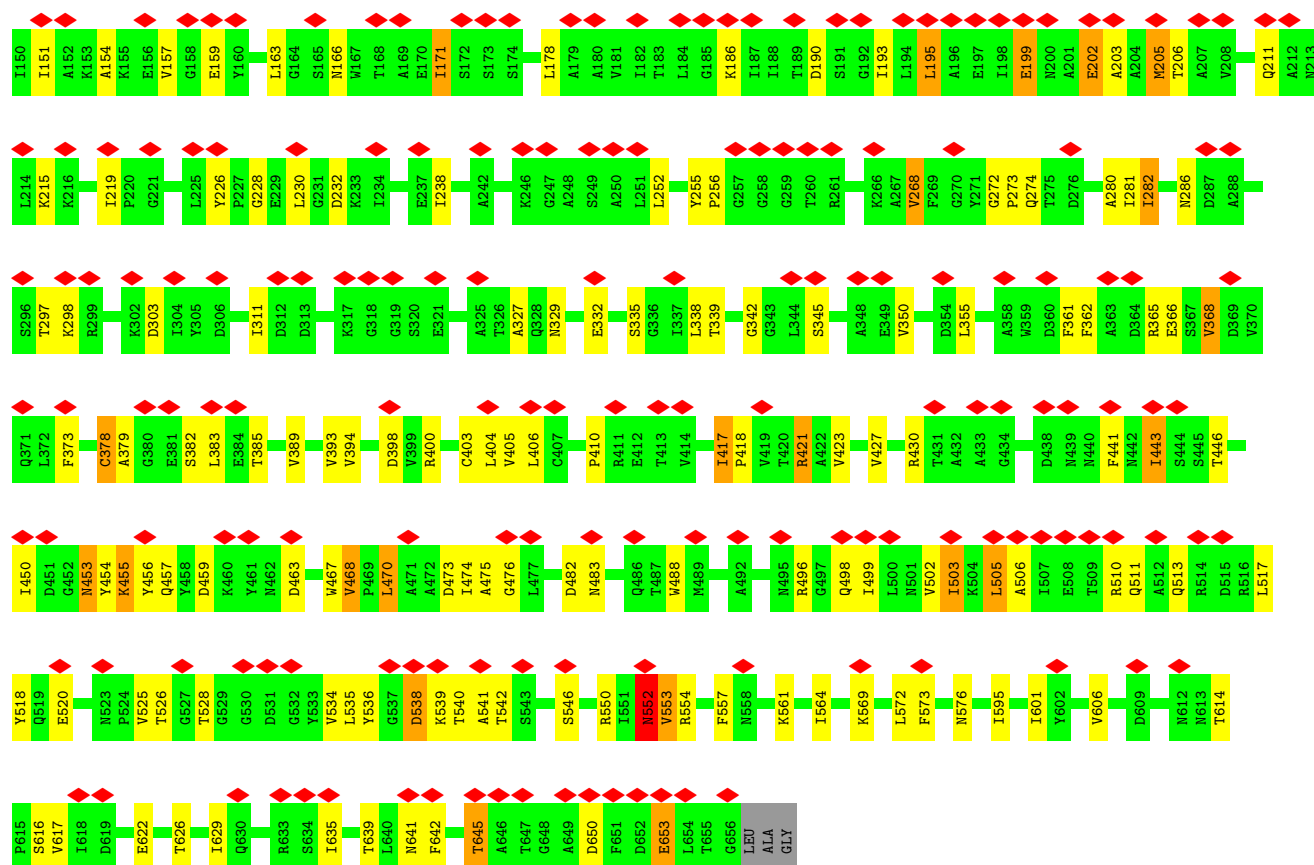


• Molecule 2: gp18, tail sheath protein

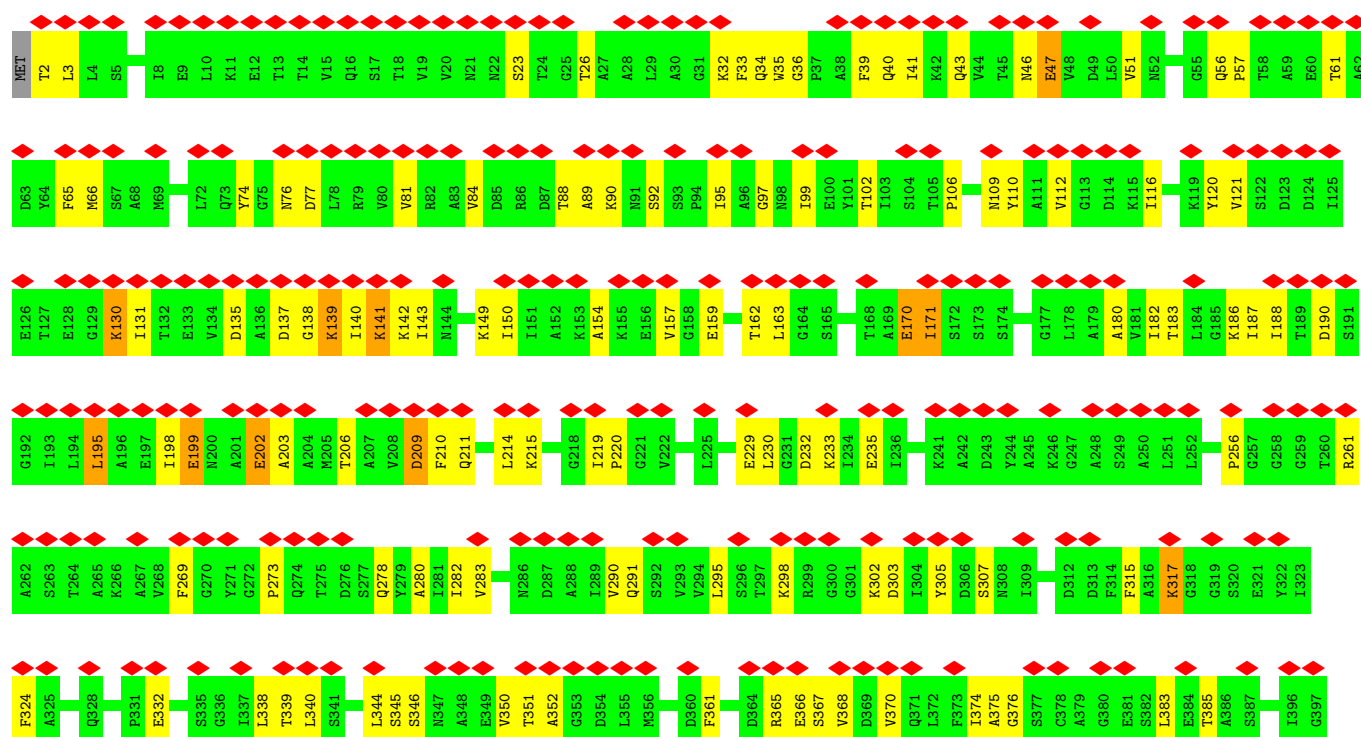


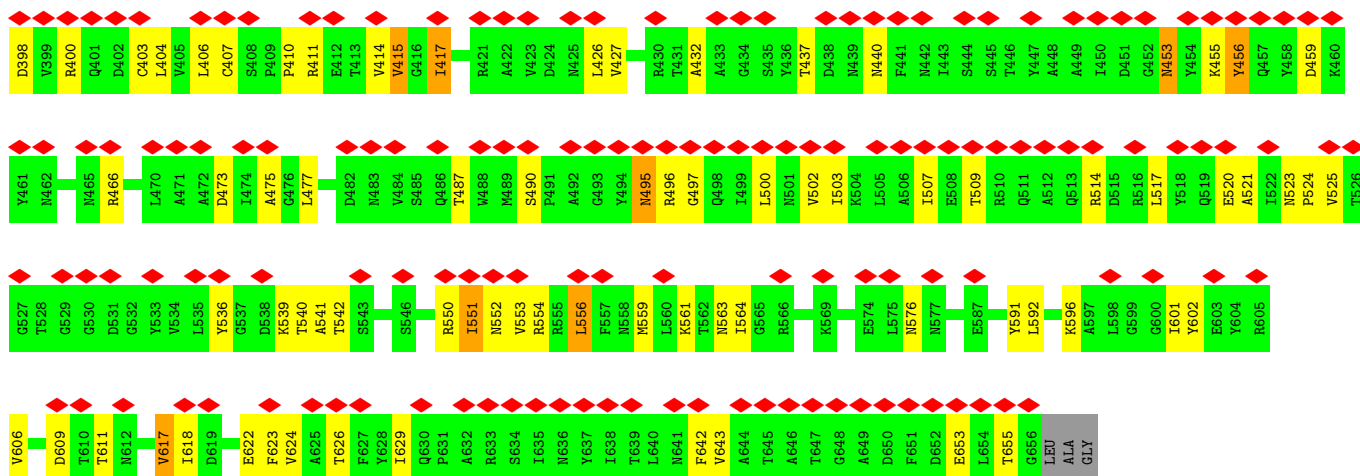
• Molecule 2: gp18, tail sheath protein



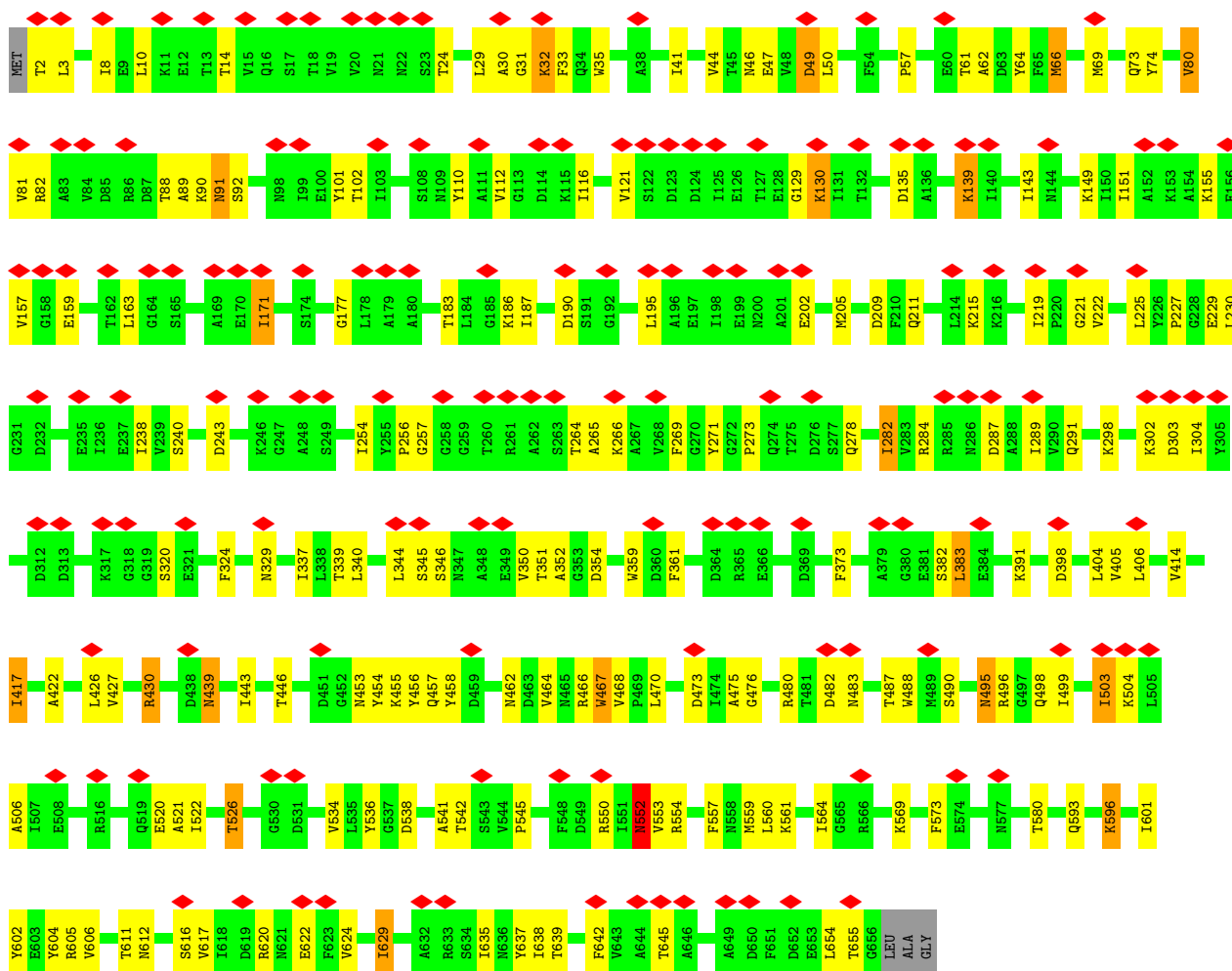


• Molecule 2: gp18, tail sheath protein

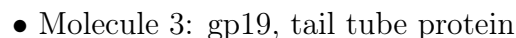
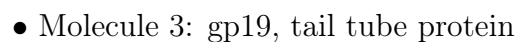


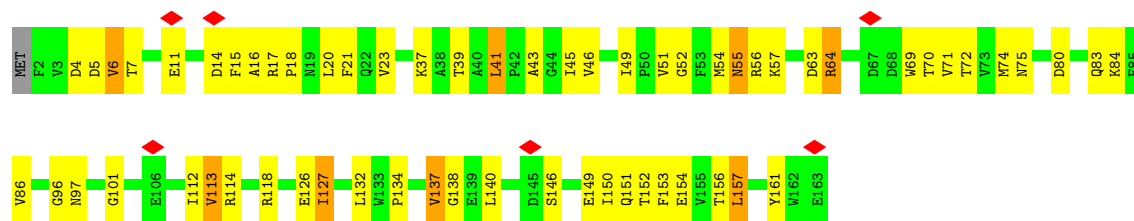


• Molecule 2: gp18, tail sheath protein

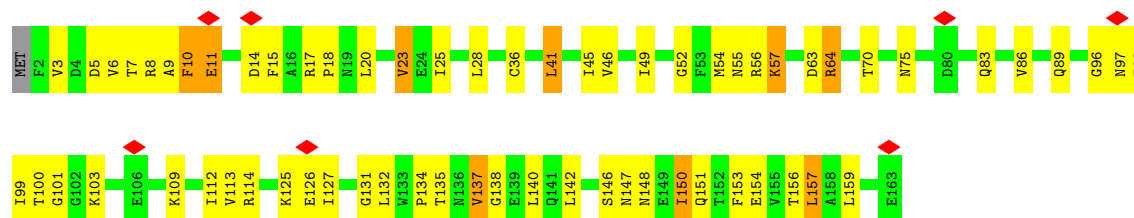


• Molecule 2: gp18, tail sheath protein

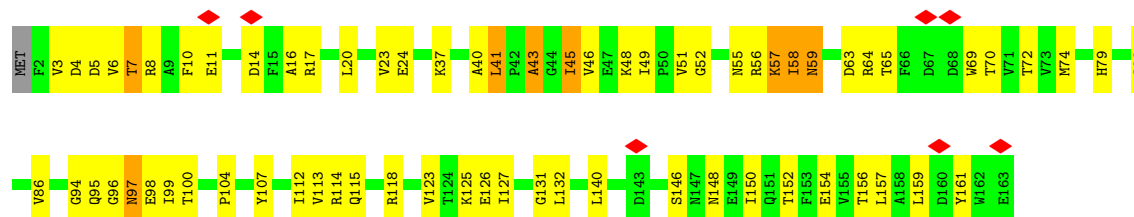




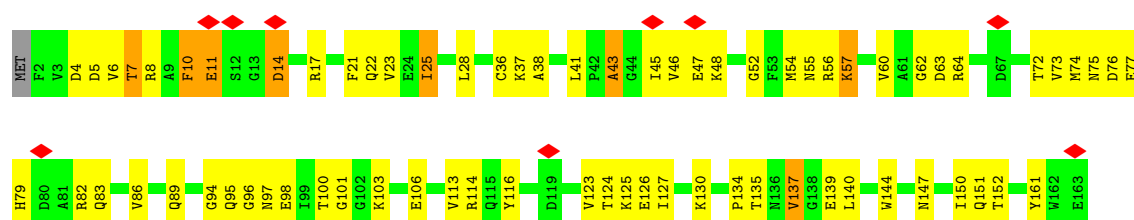
- Molecule 3: gp19, tail tube protein



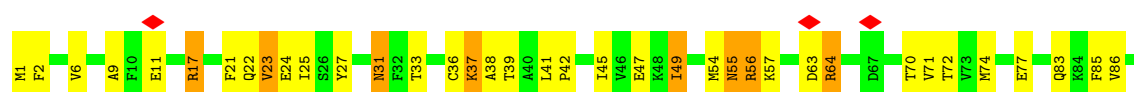
- Molecule 3: gp19, tail tube protein

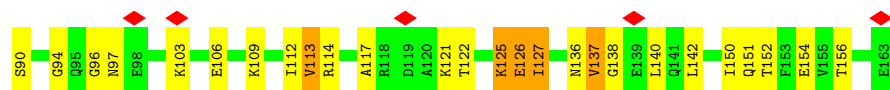


- Molecule 3: gp19, tail tube protein



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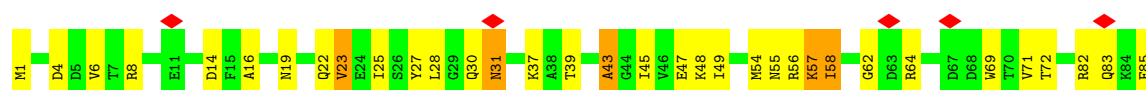




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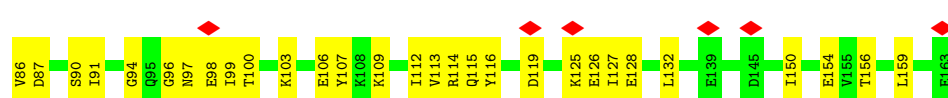
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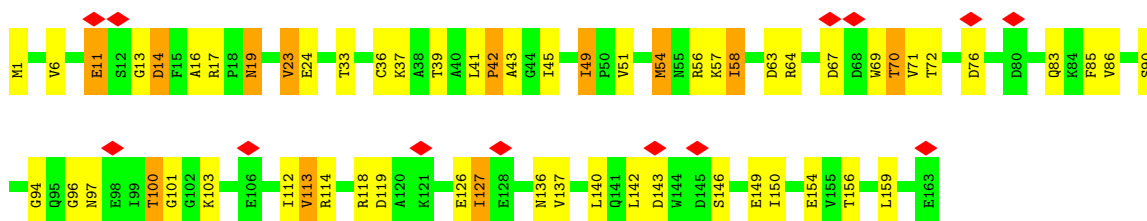
- Molecule 3: gp19, tail tube protein



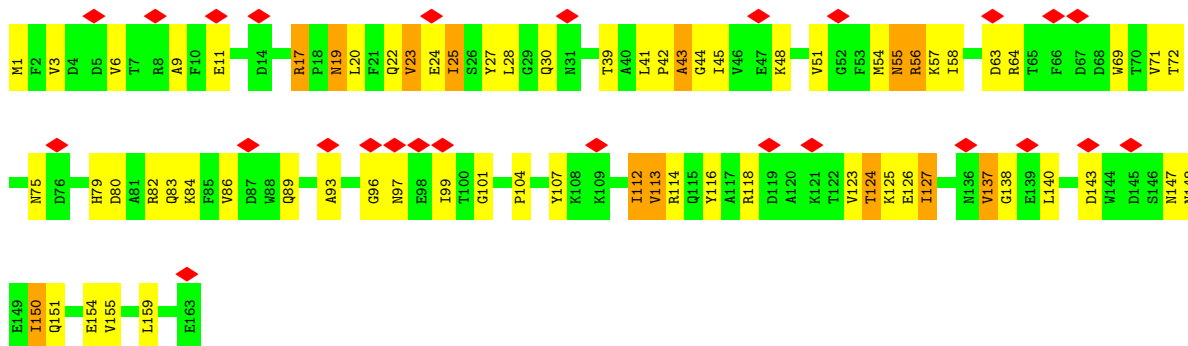
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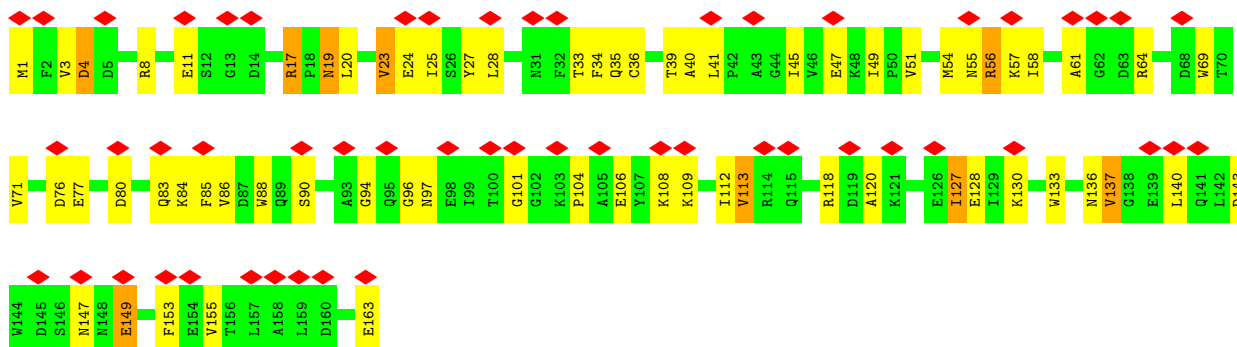
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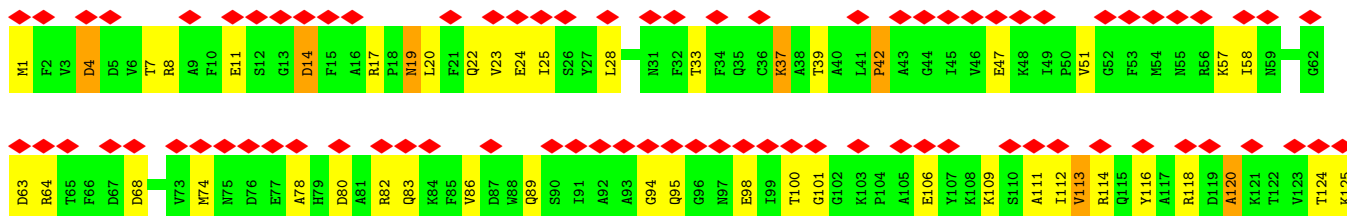
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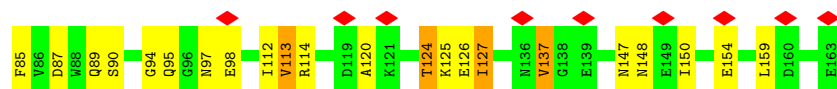
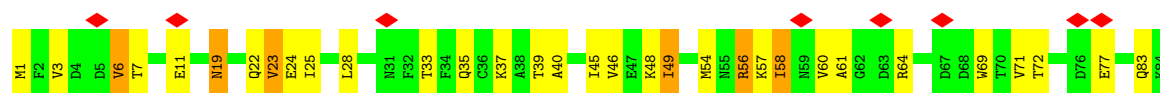


- Molecule 3: gp19, tail tube protein

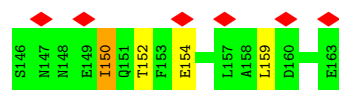
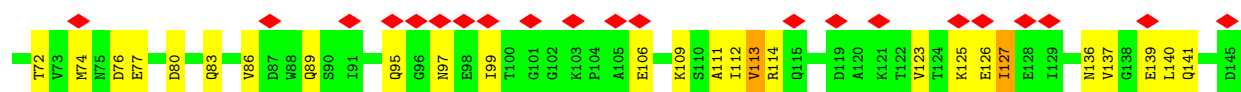
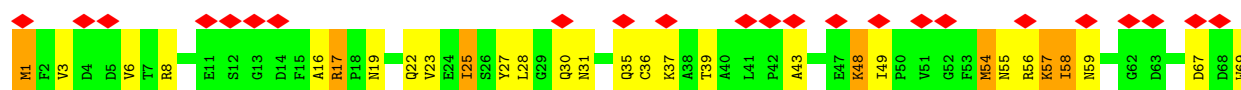




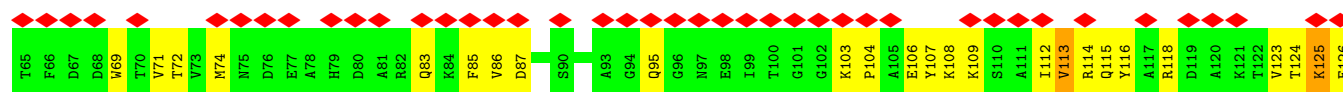
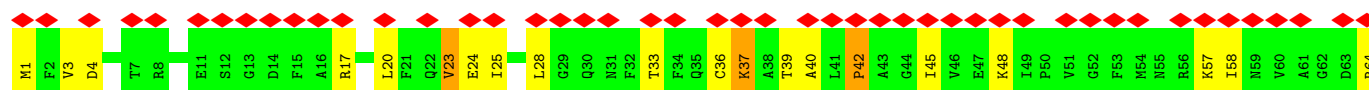
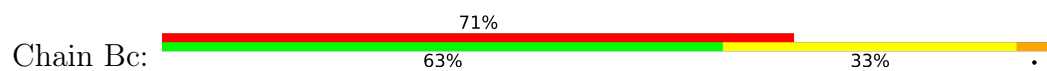
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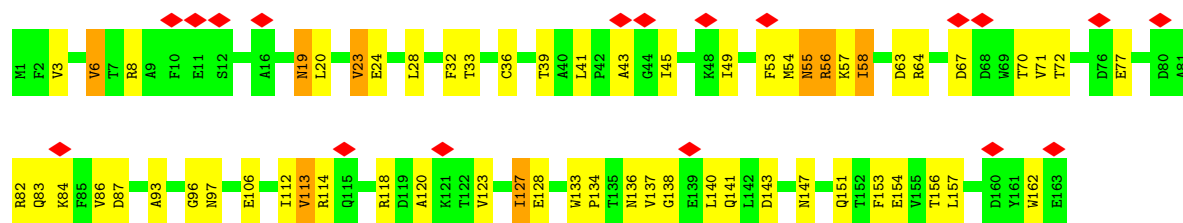


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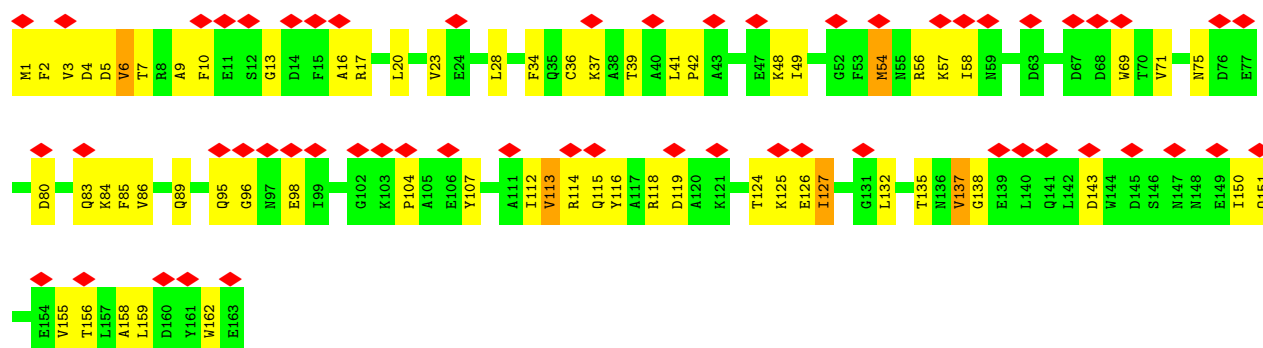


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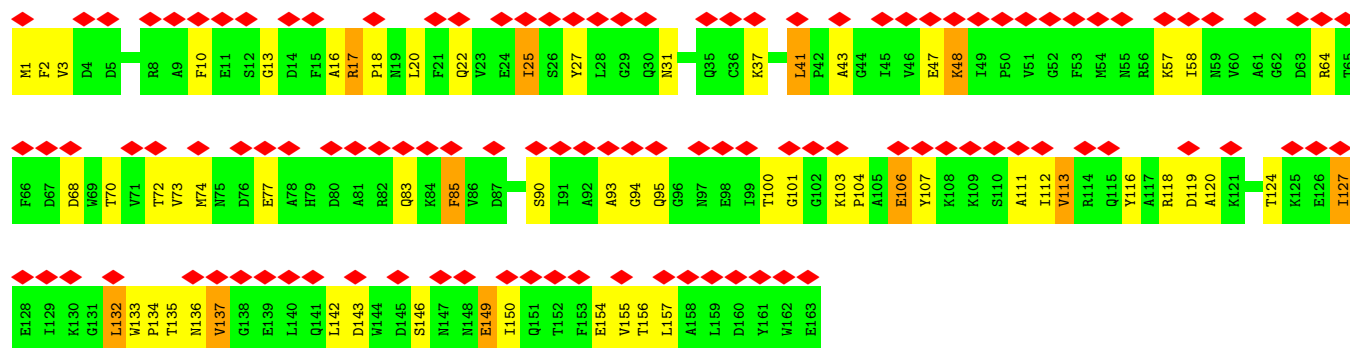




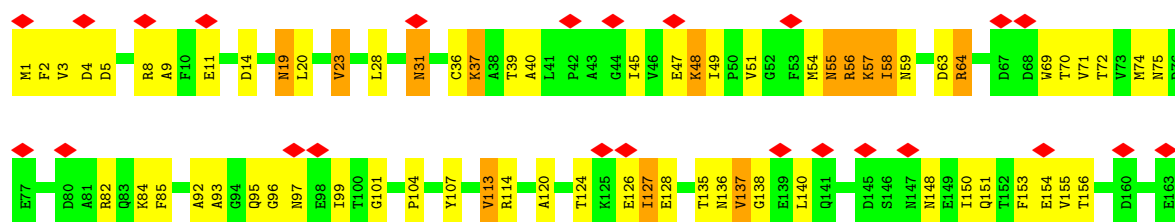
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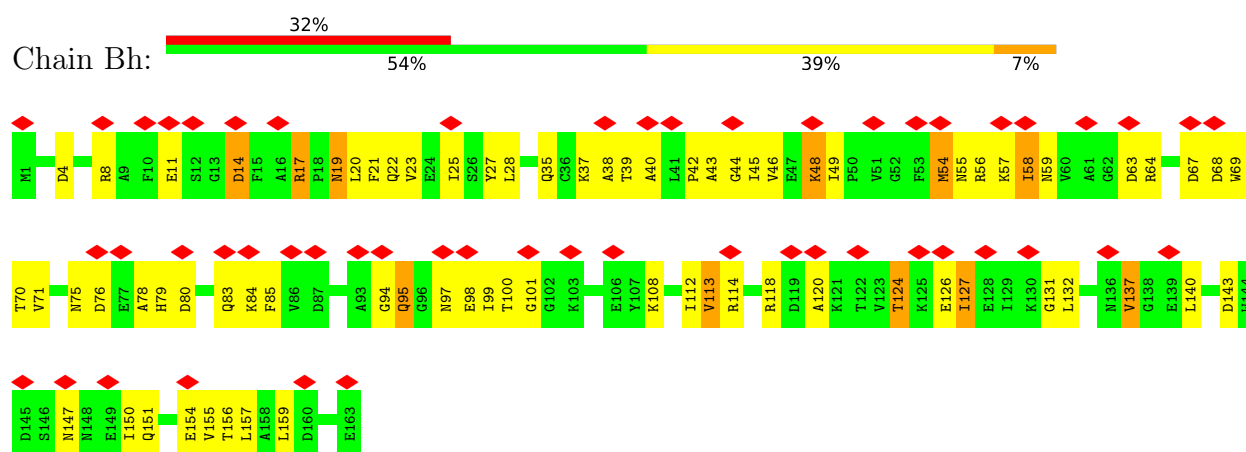
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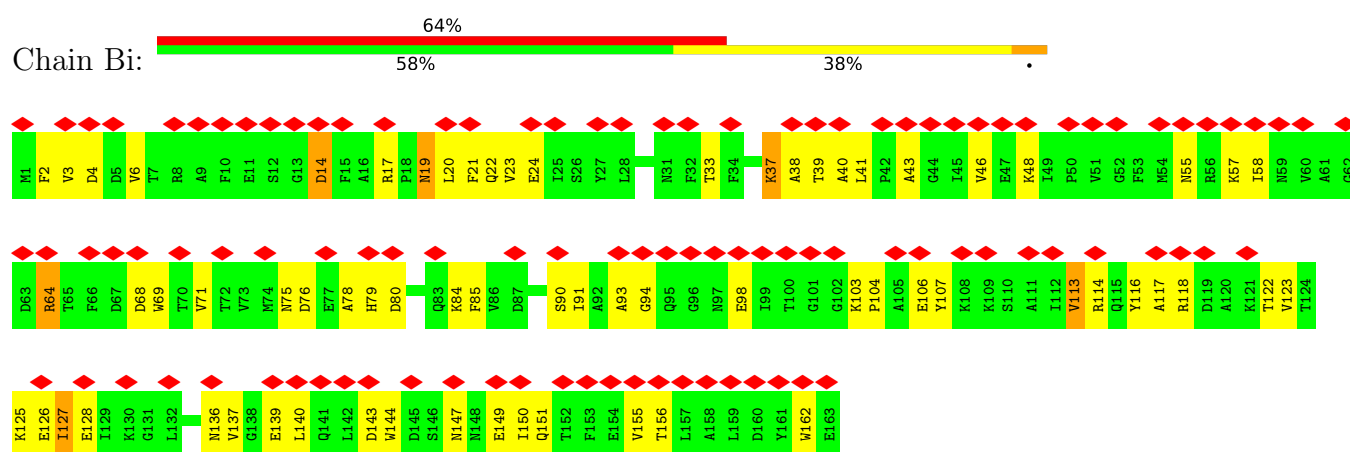
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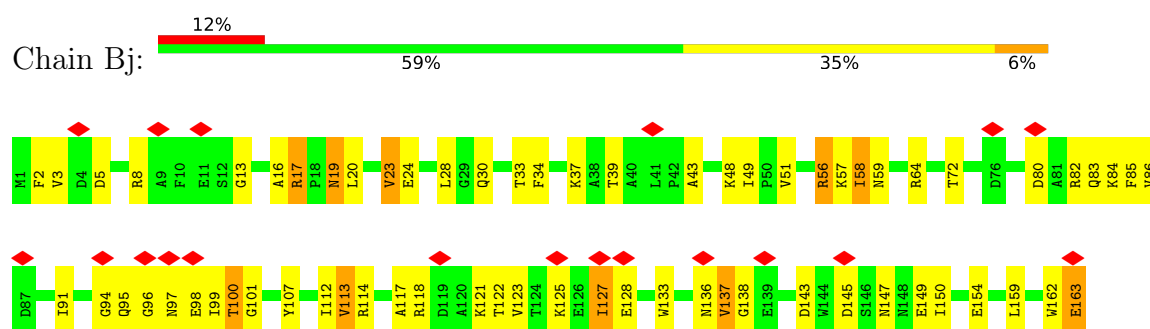
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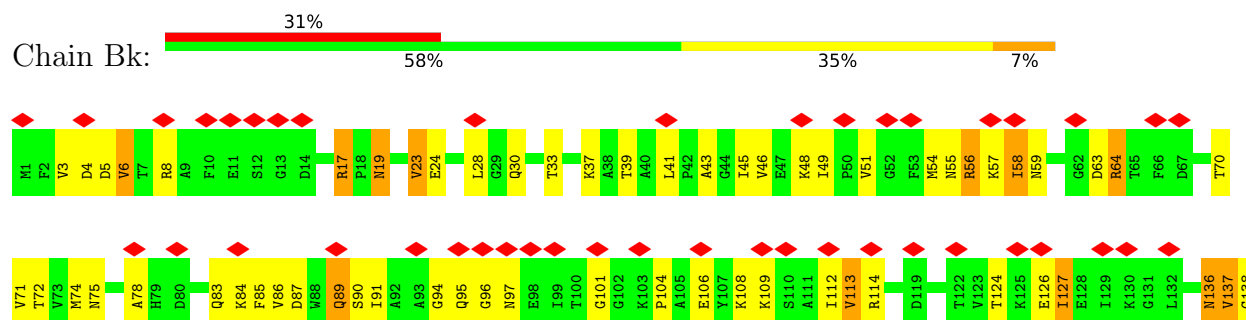
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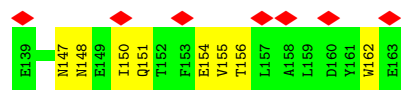


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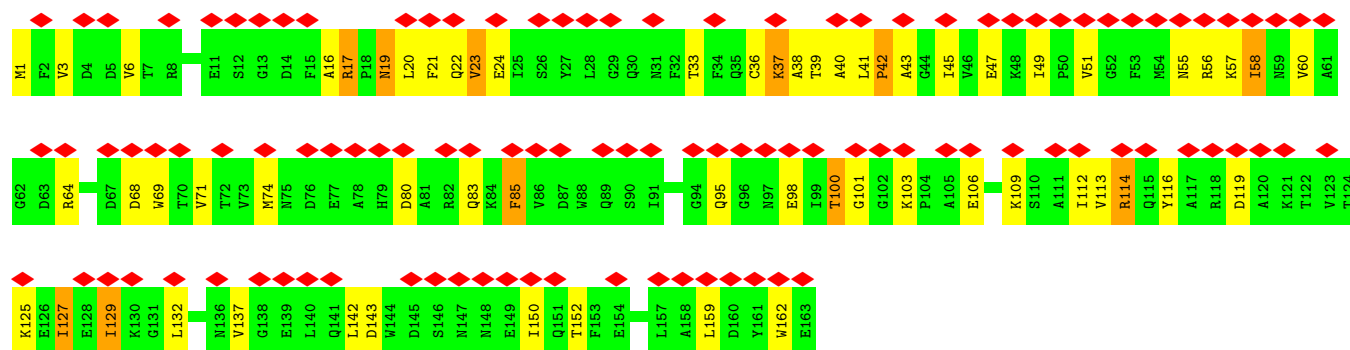


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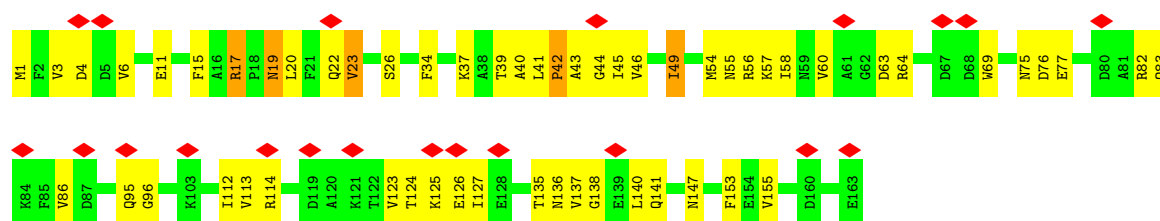




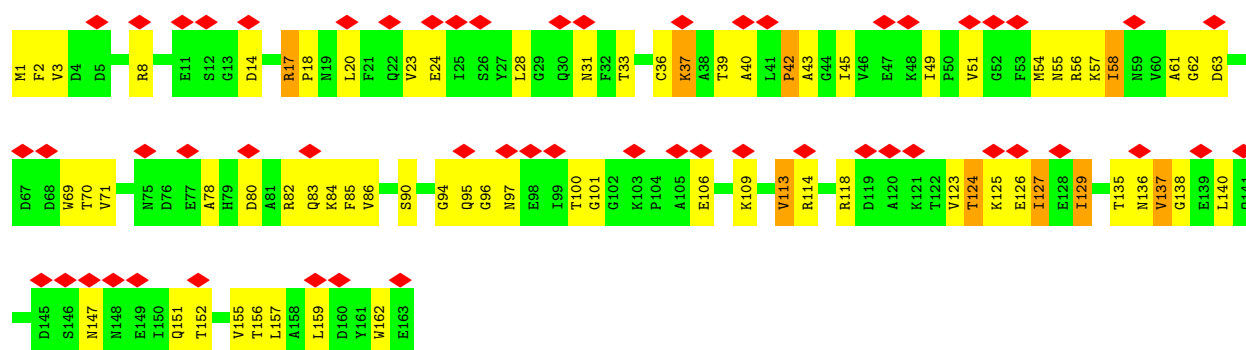
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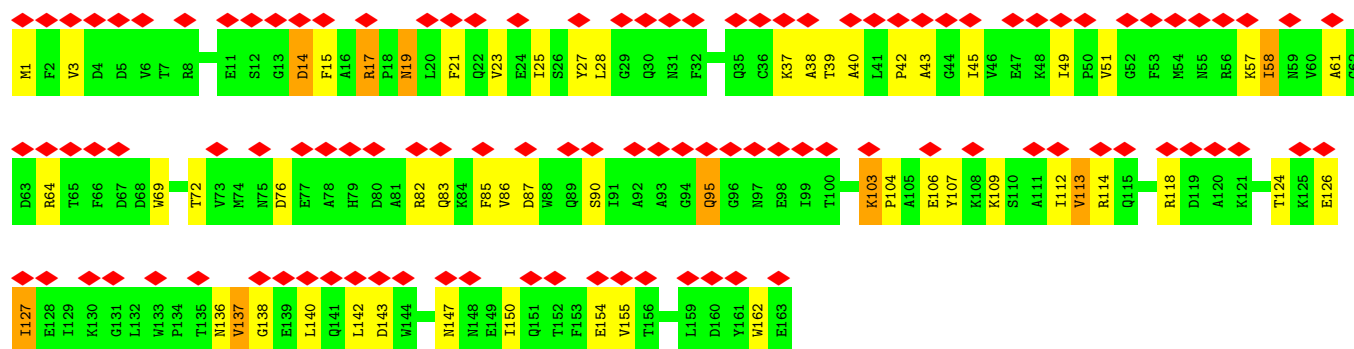


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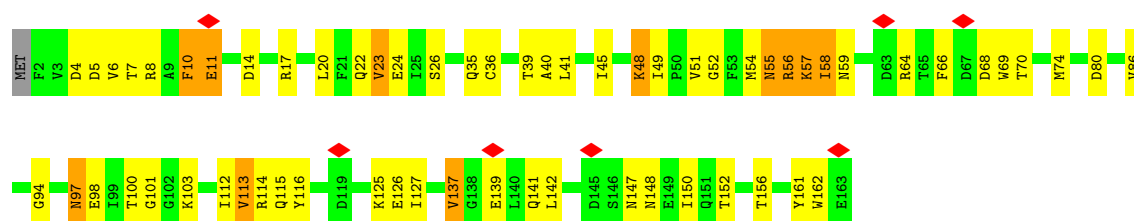


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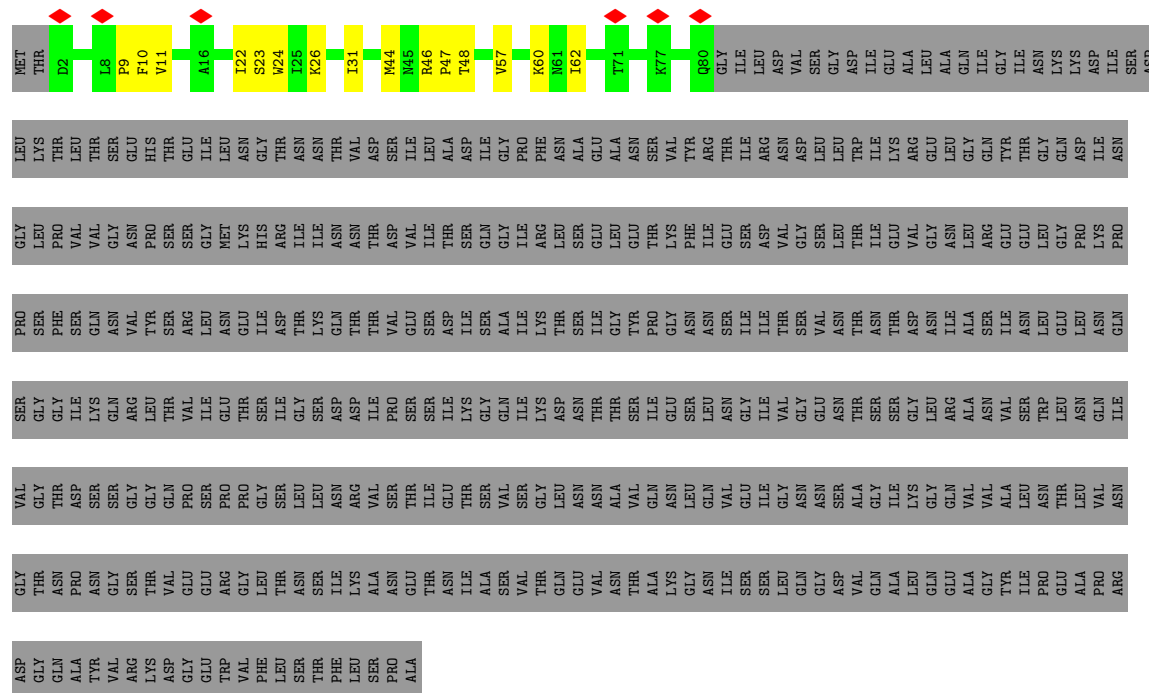




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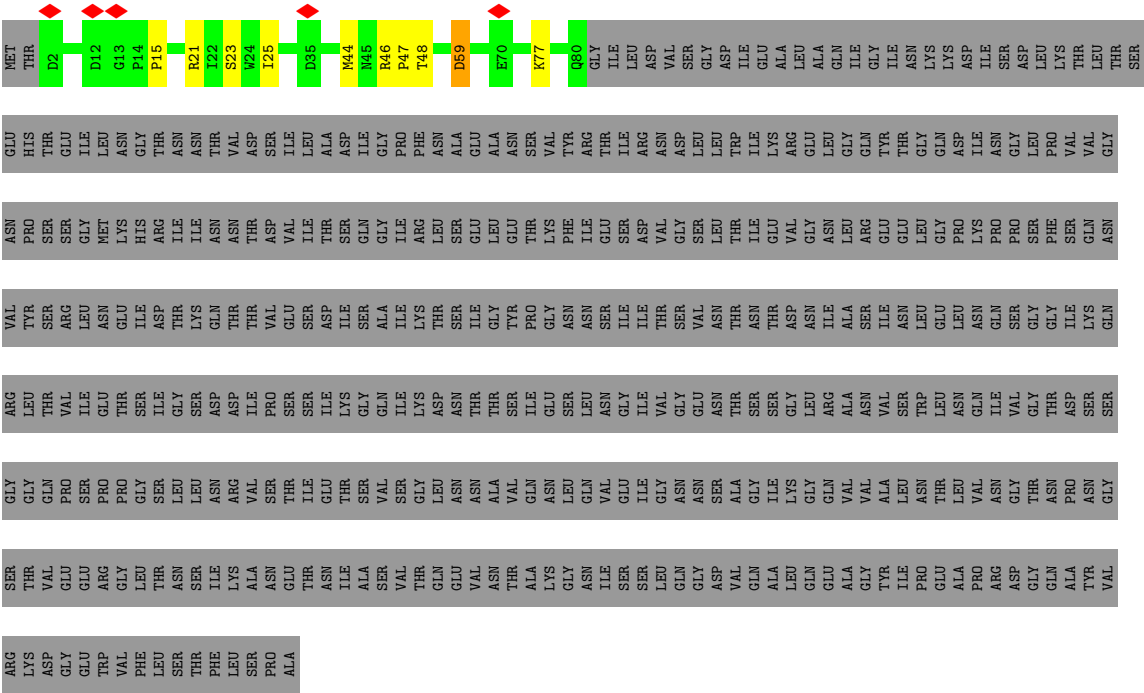
• Molecule 4: gpwac, fibrin



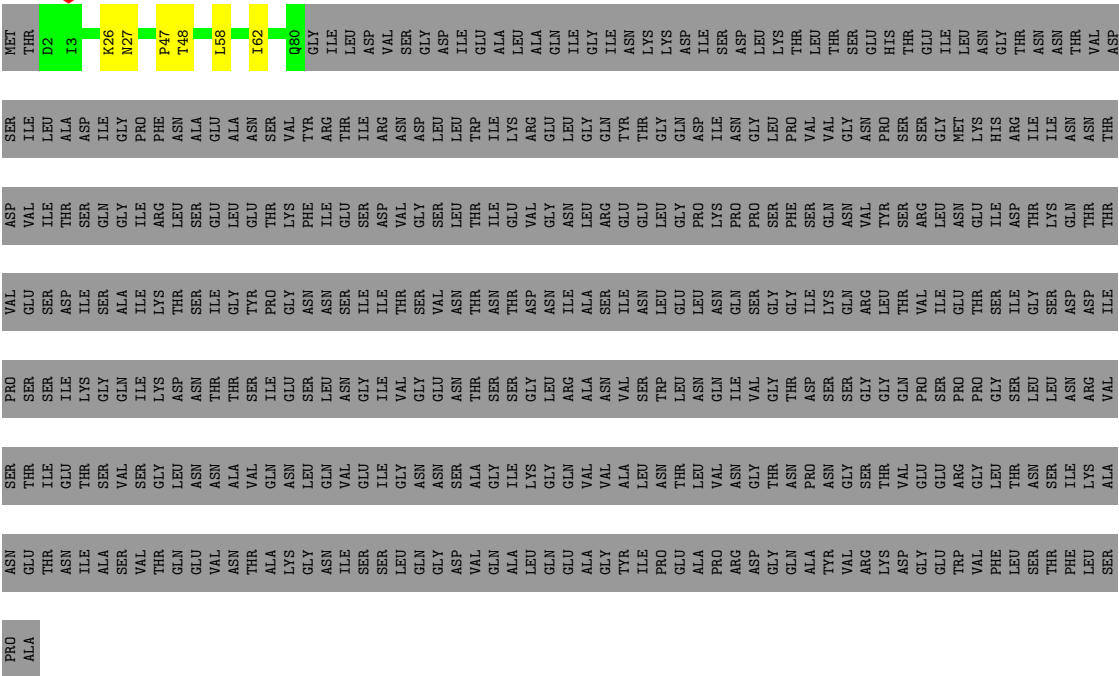
• Molecule 4: gpwac, fibrin





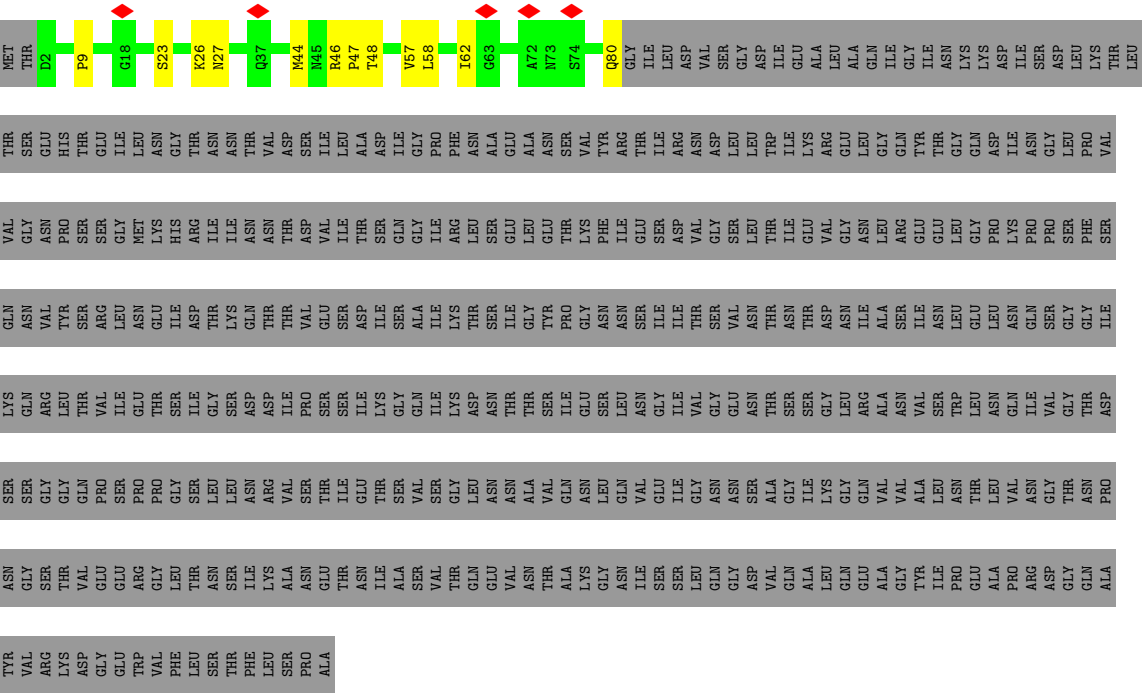


● Molecule 4: gpwac, fibritin

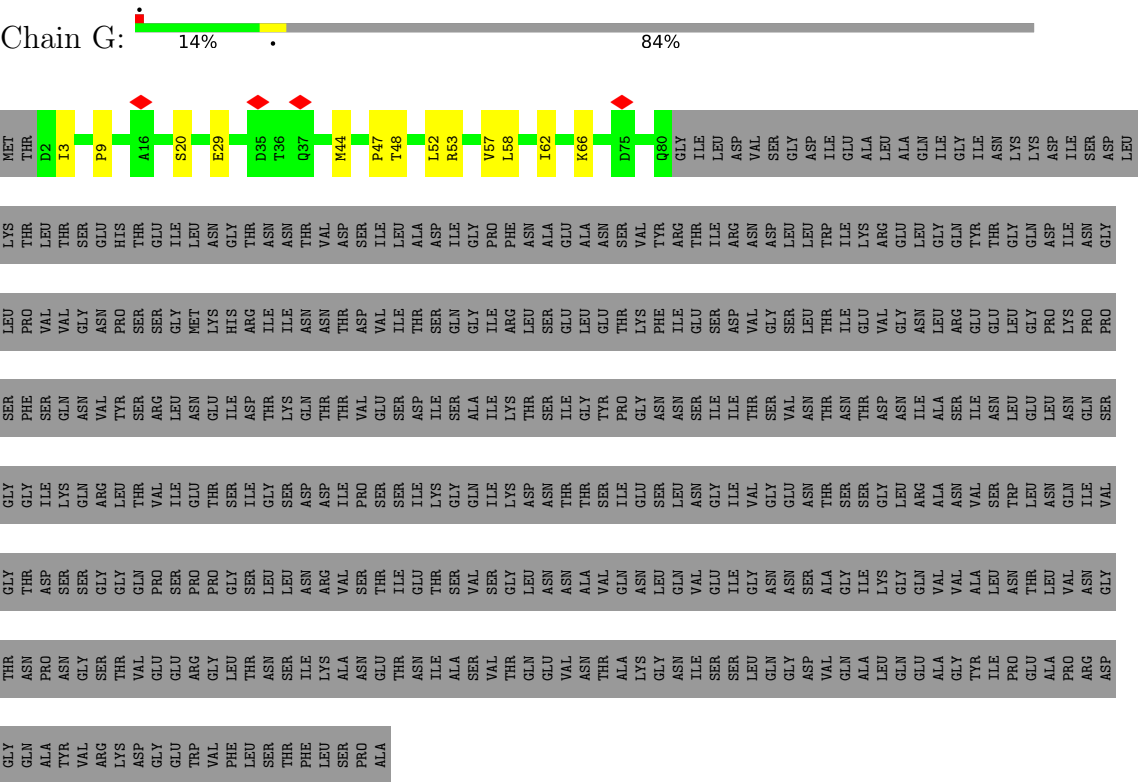


● Molecule 4: gpwac, fibritin



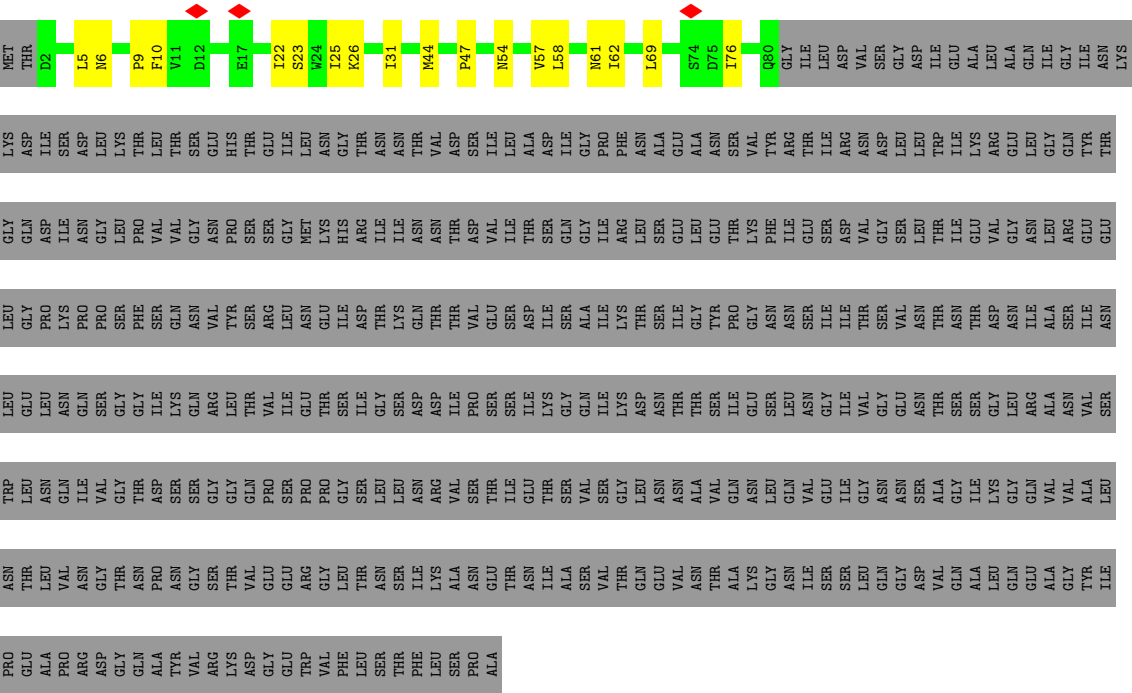


● Molecule 4: gpwac, fibritin

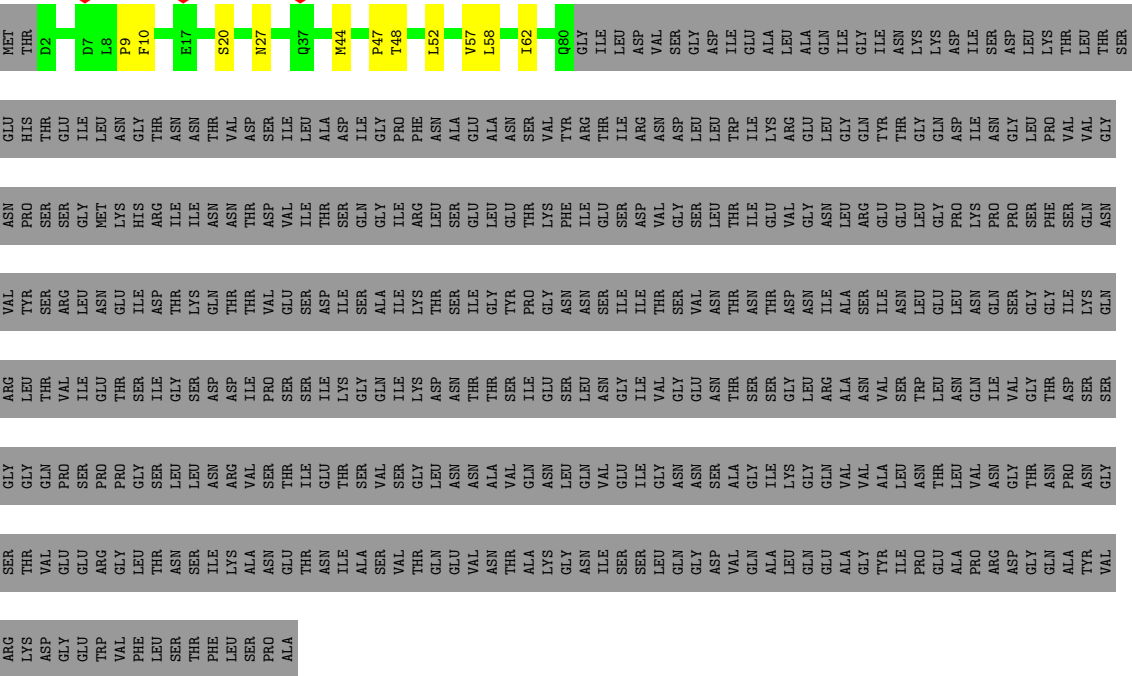


● Molecule 4: gpwac, fibritin



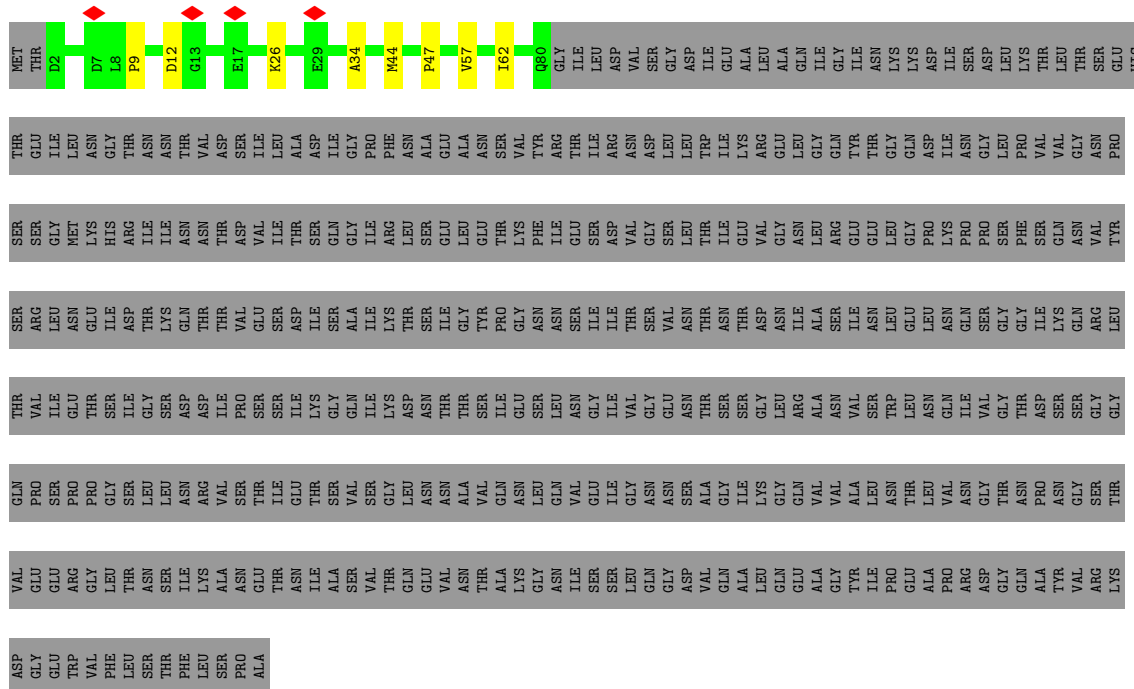


• Molecule 4: gpwac, fibrinin

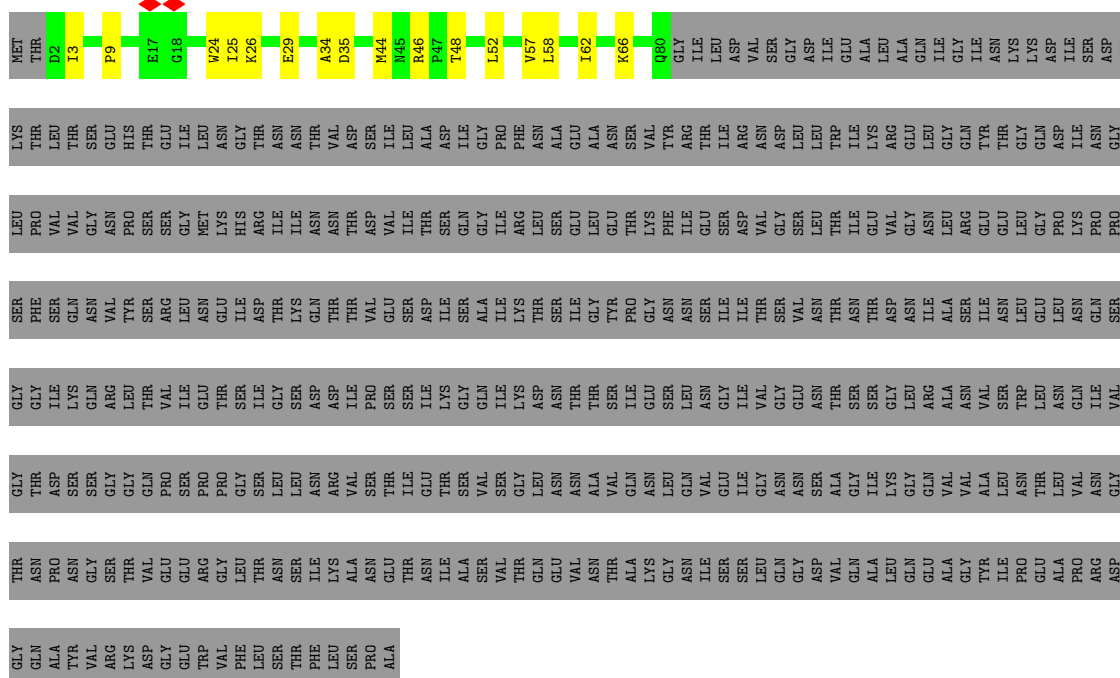


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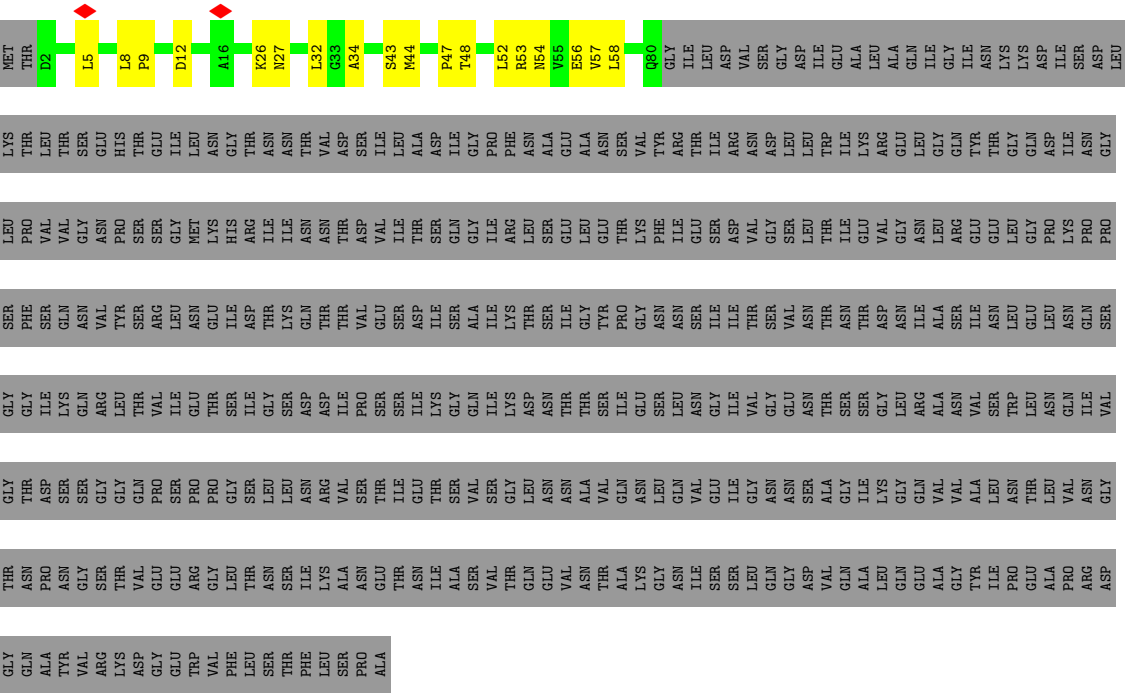


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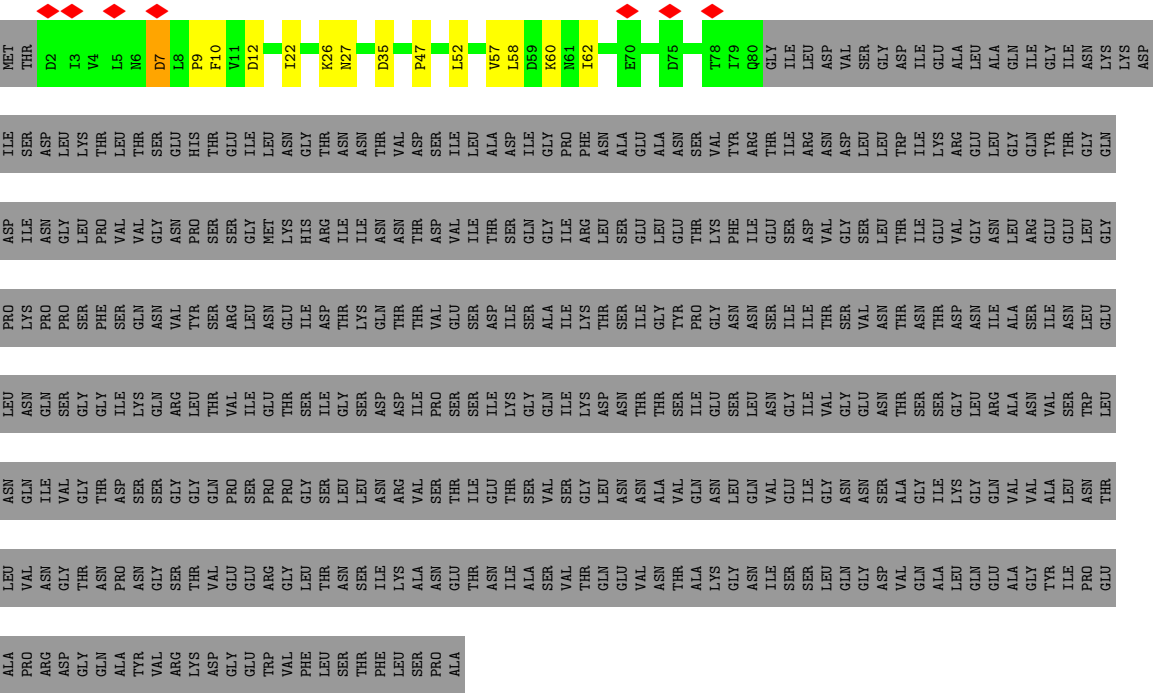




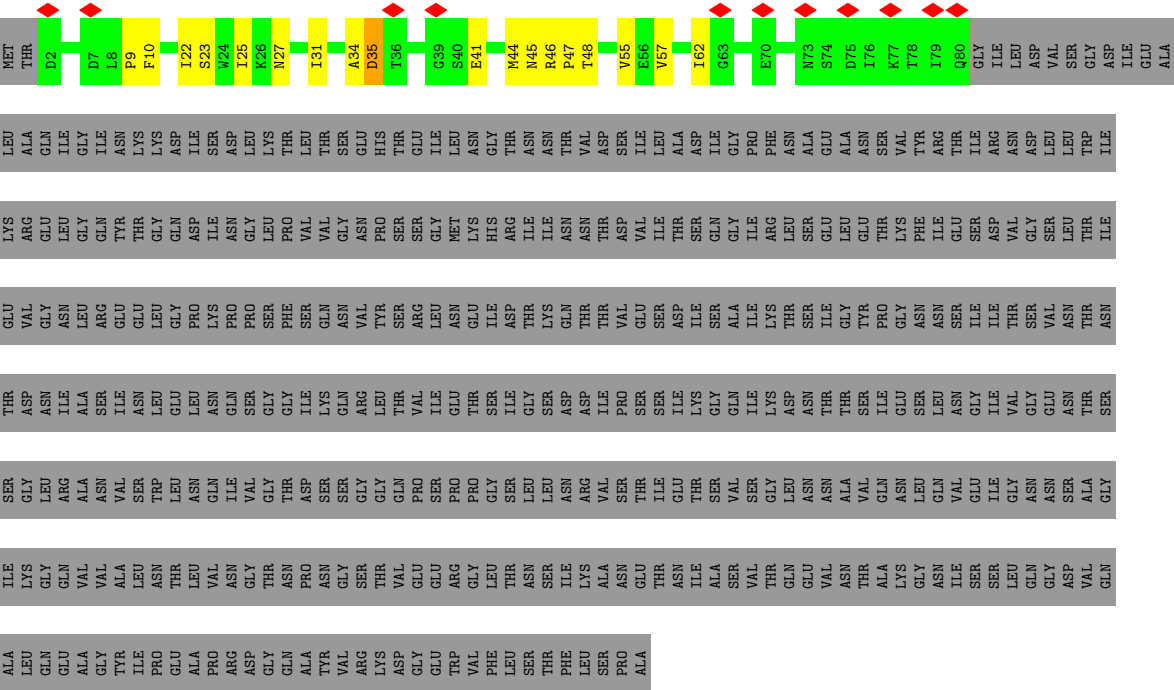








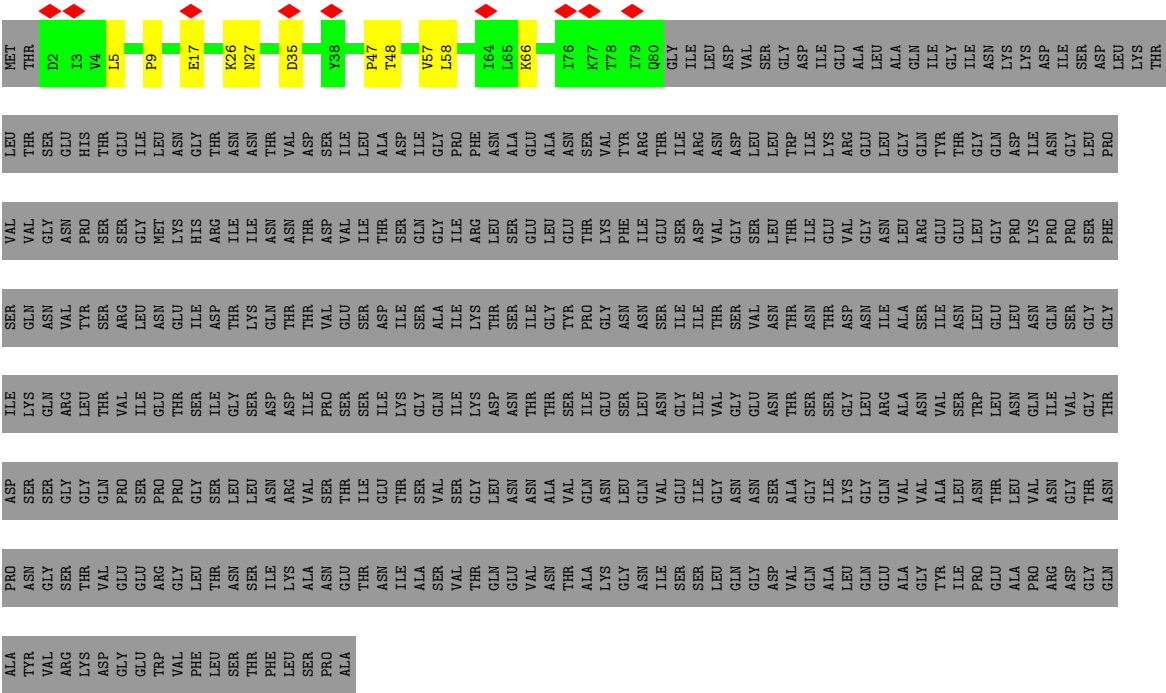
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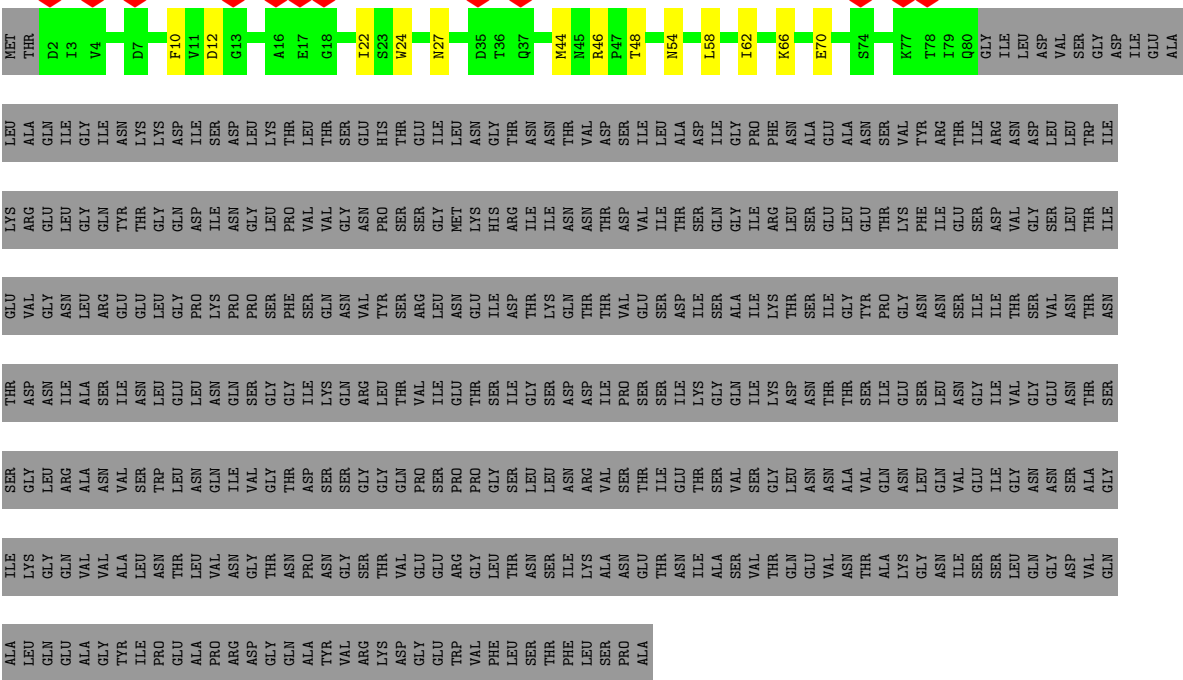
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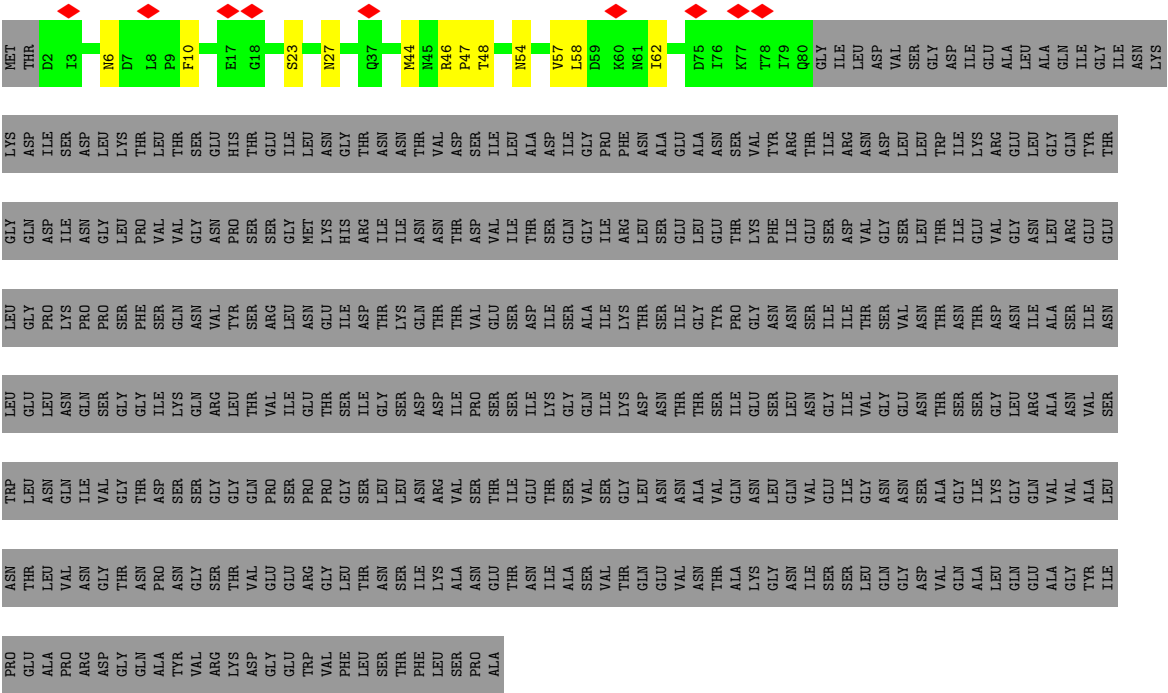


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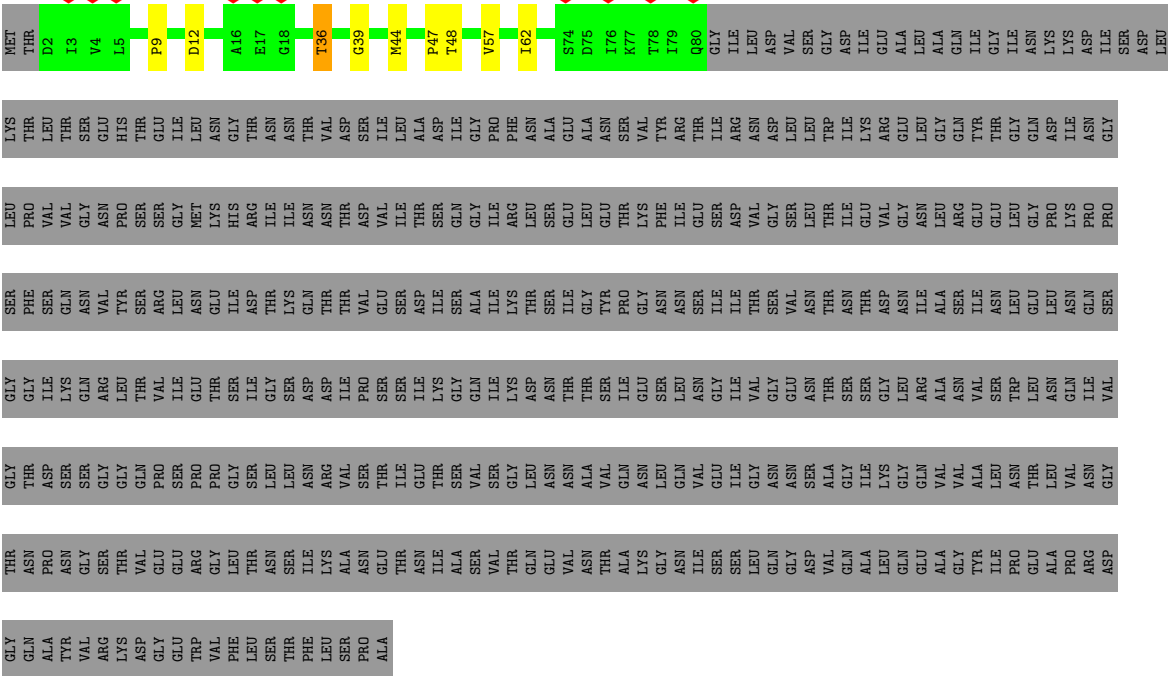


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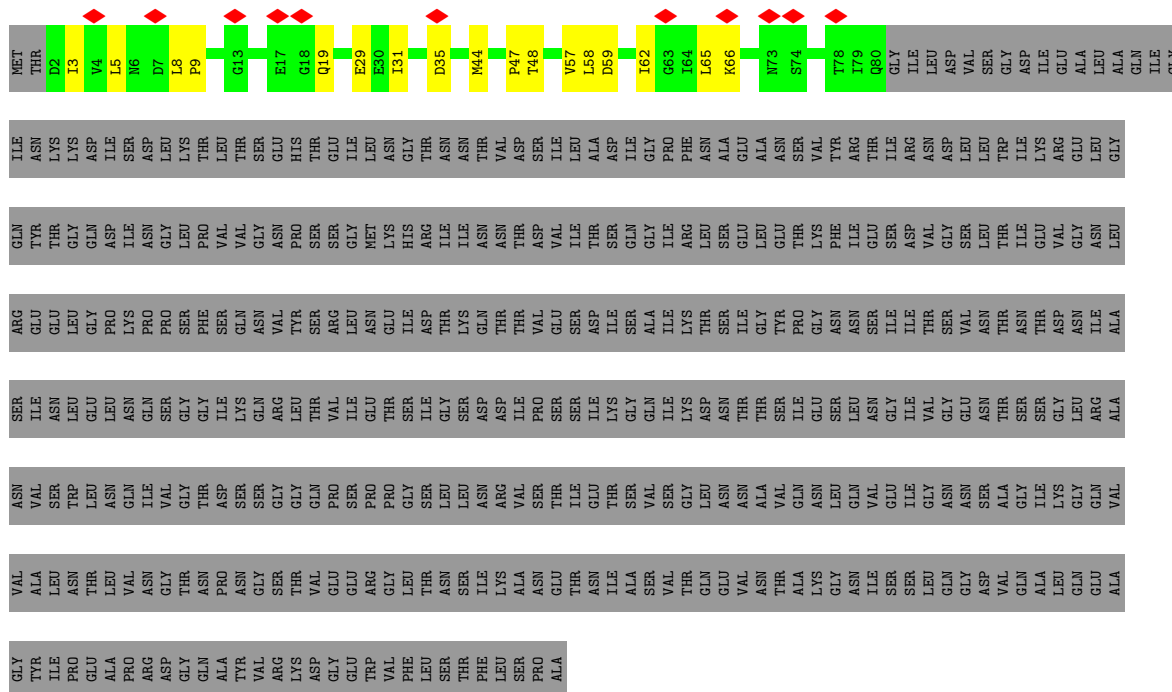


• Molecule 4: gpwac, fibrinin

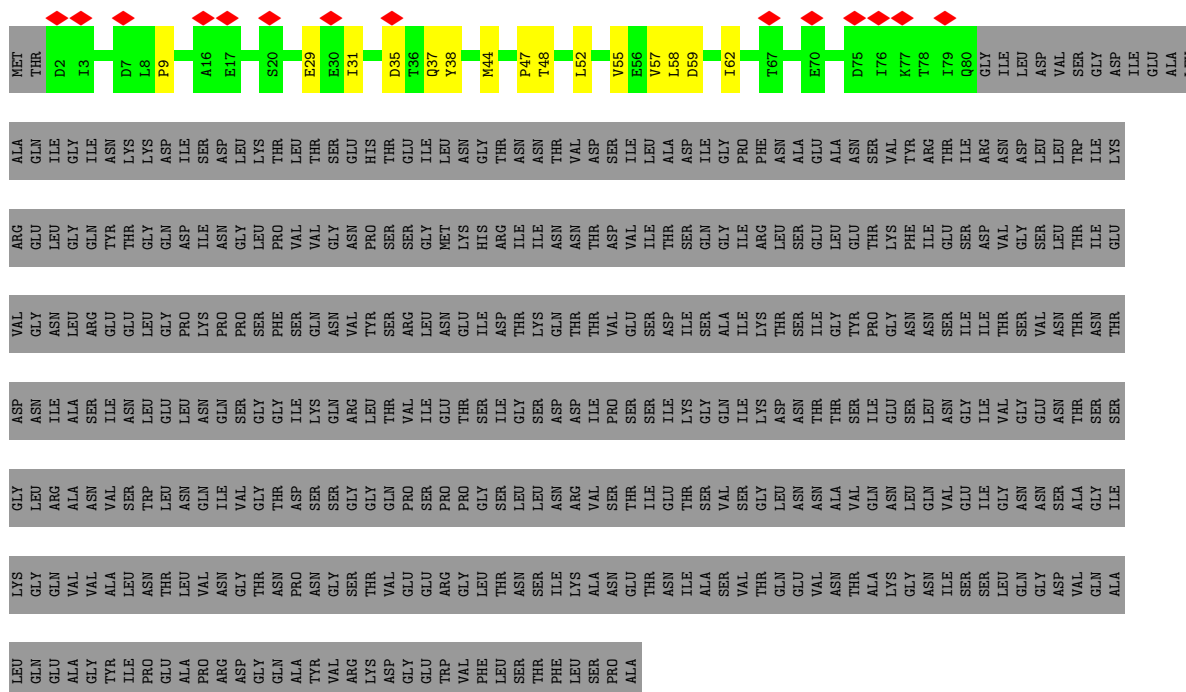






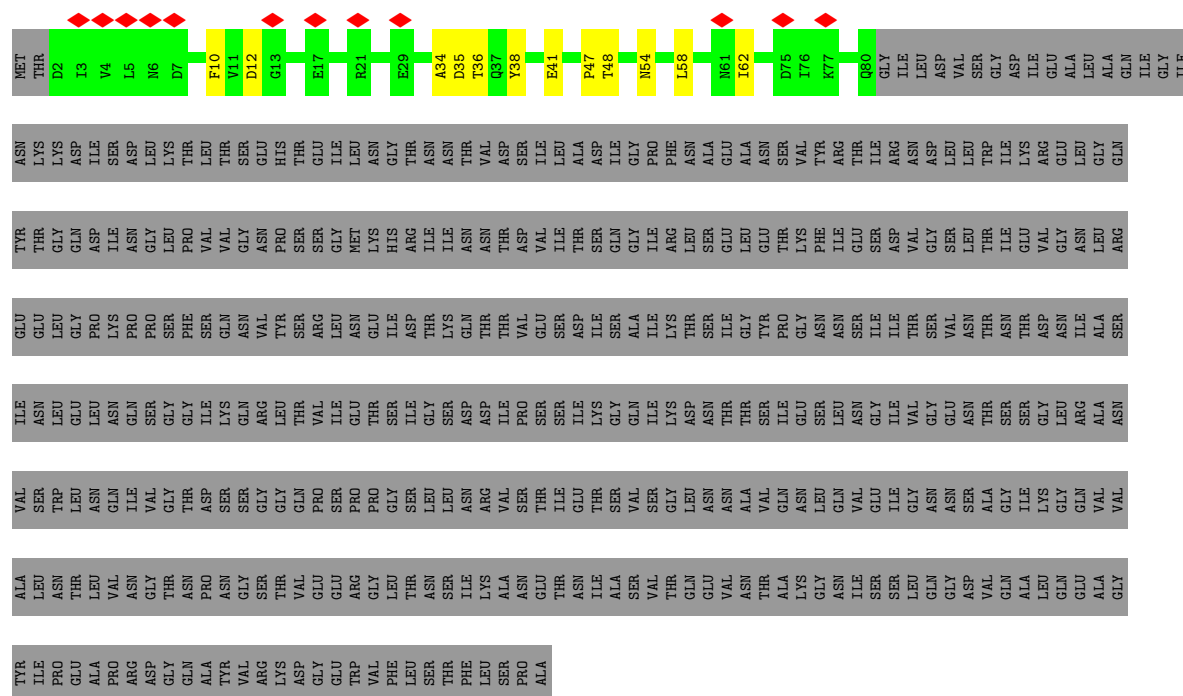


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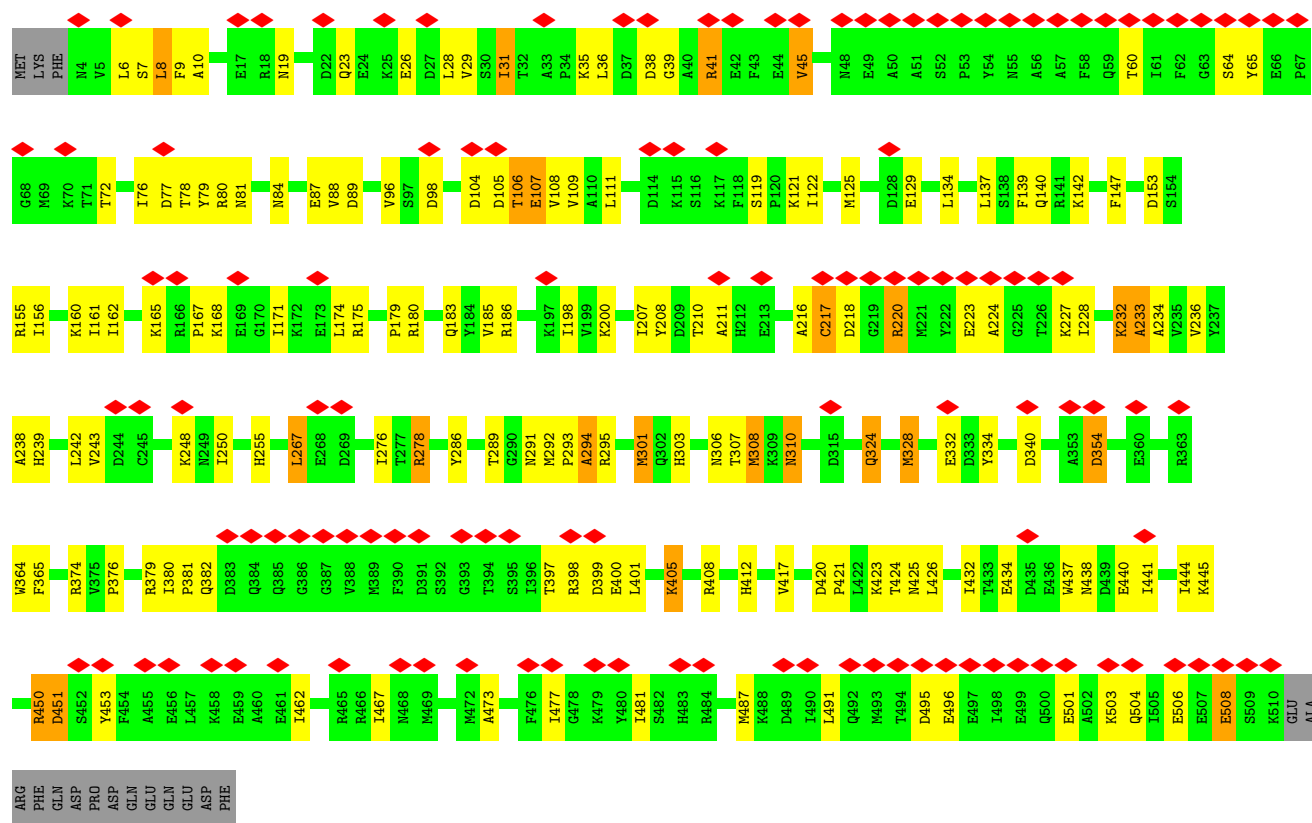


- Molecule 4: gpwac, fibrinin

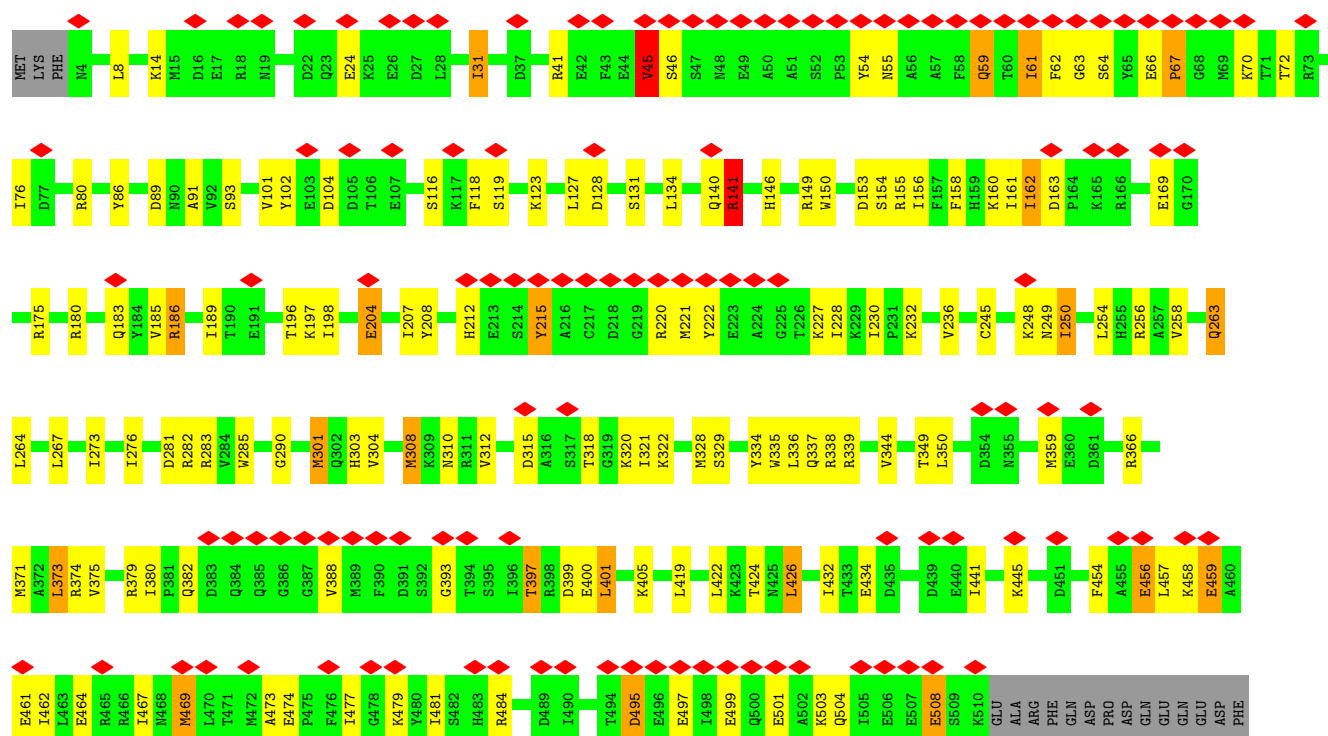




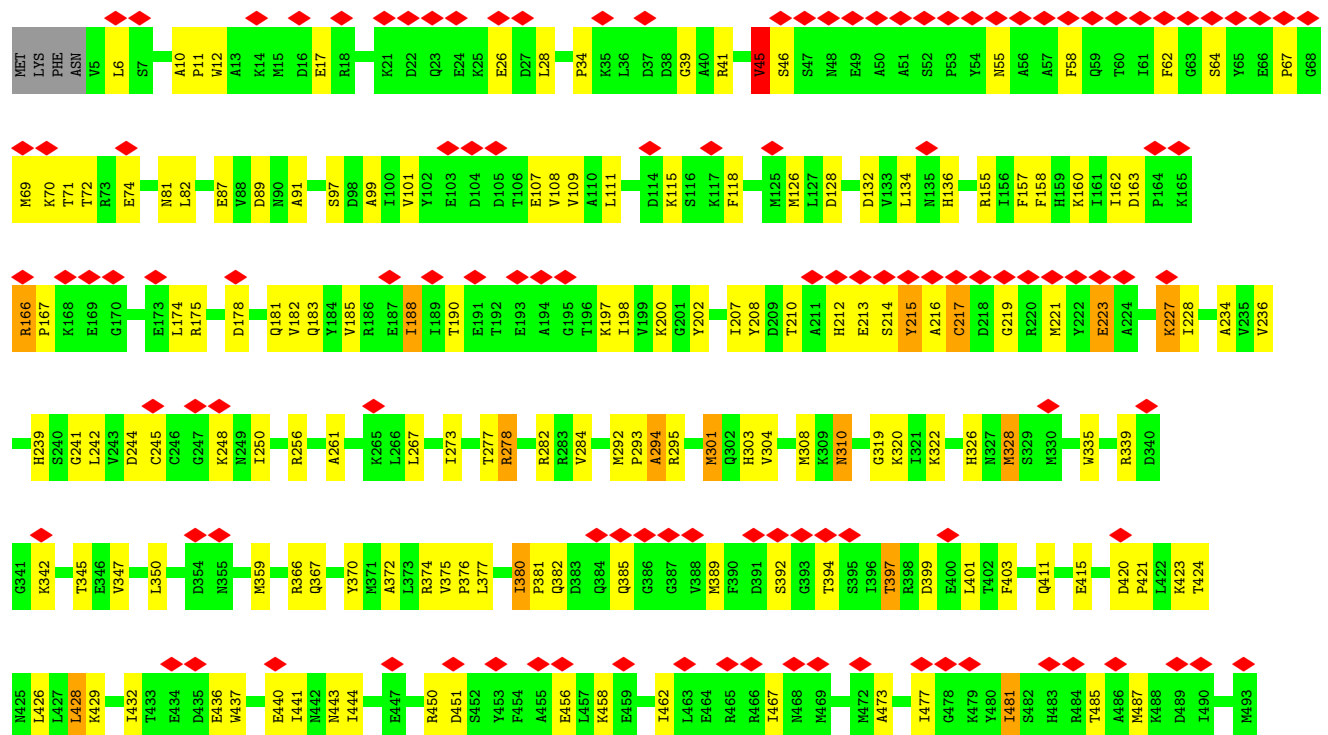
• Molecule 5: gp20, portal protein



• Molecule 5: gp20, portal protein

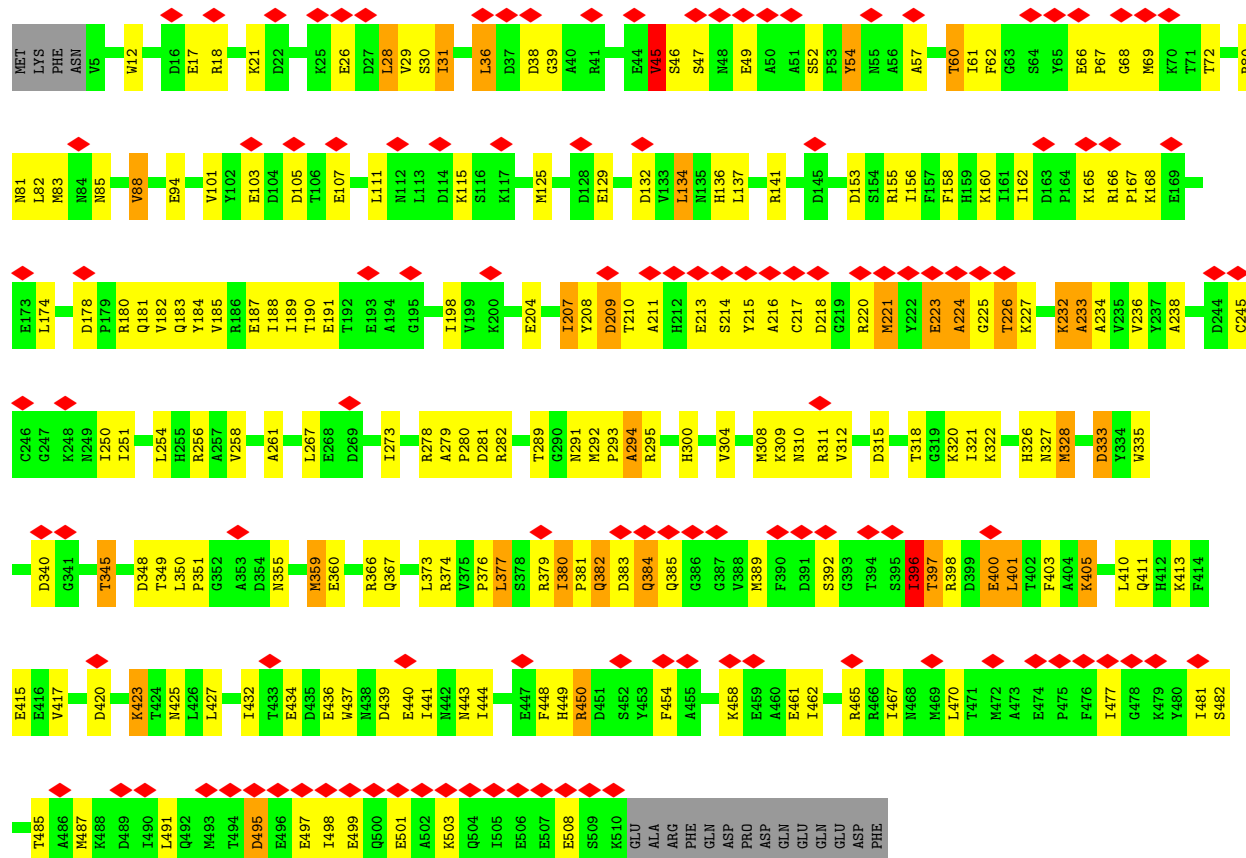


• Molecule 5: gp20, portal protein

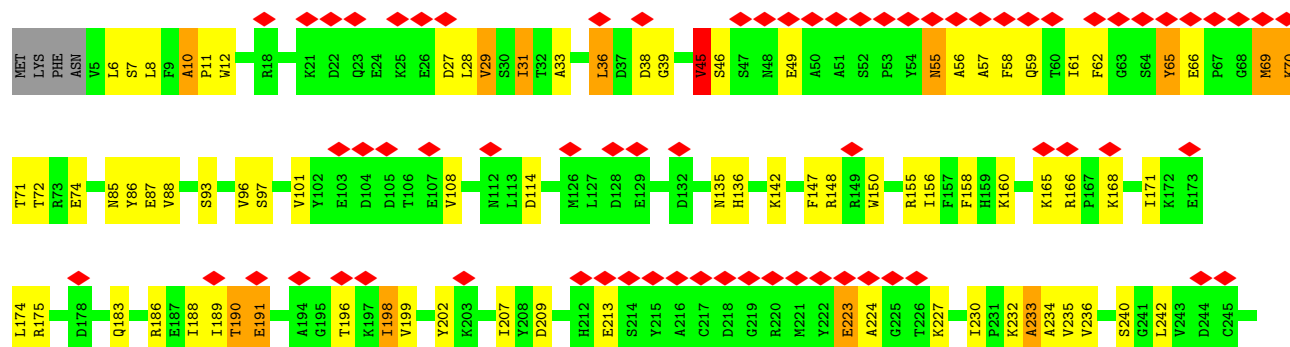


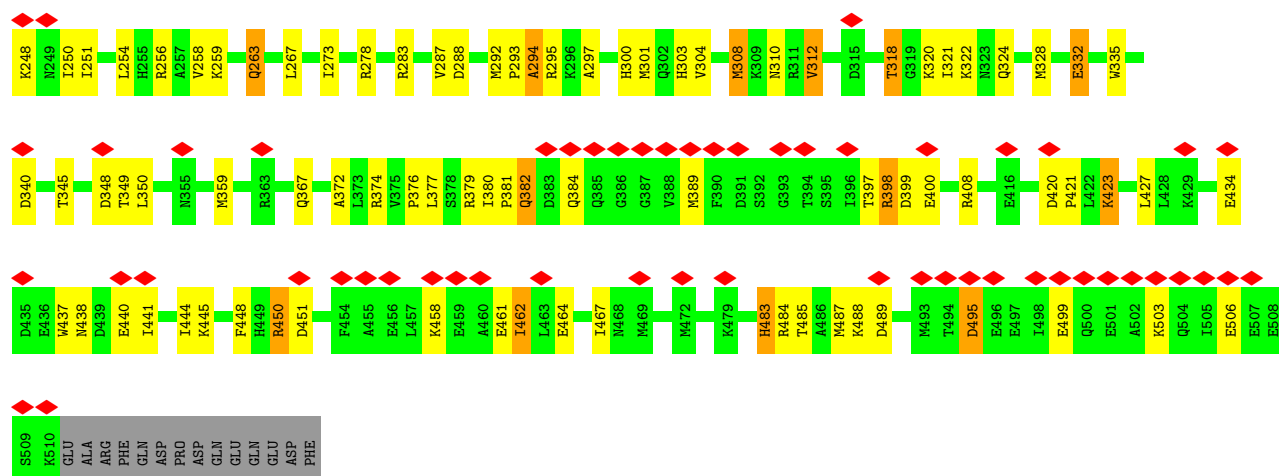


• Molecule 5: gp20, portal protein

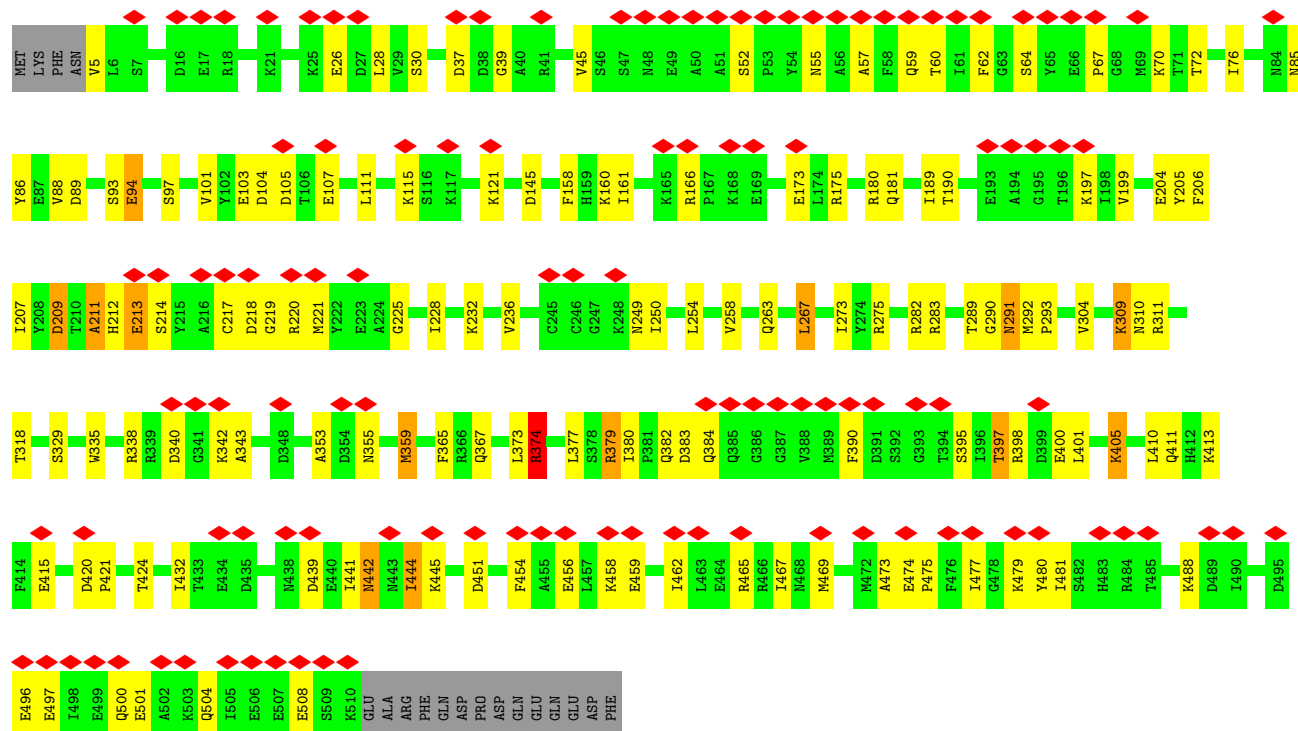
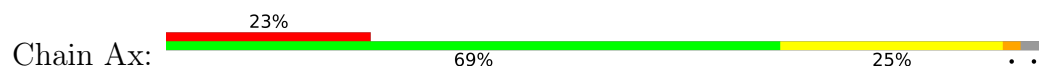


• Molecule 5: gp20, portal protein

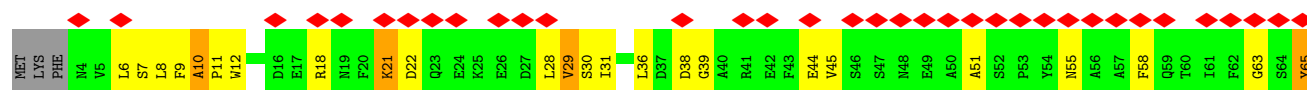


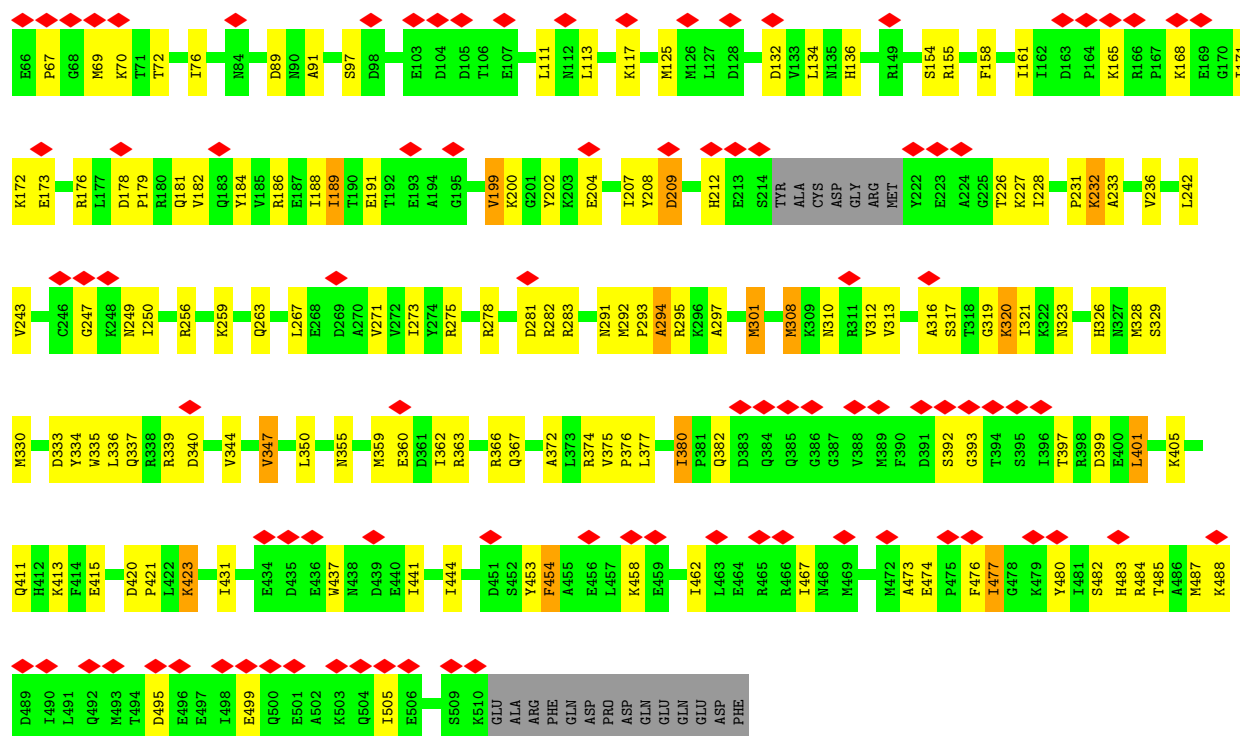


- Molecule 5: gp20, portal protein

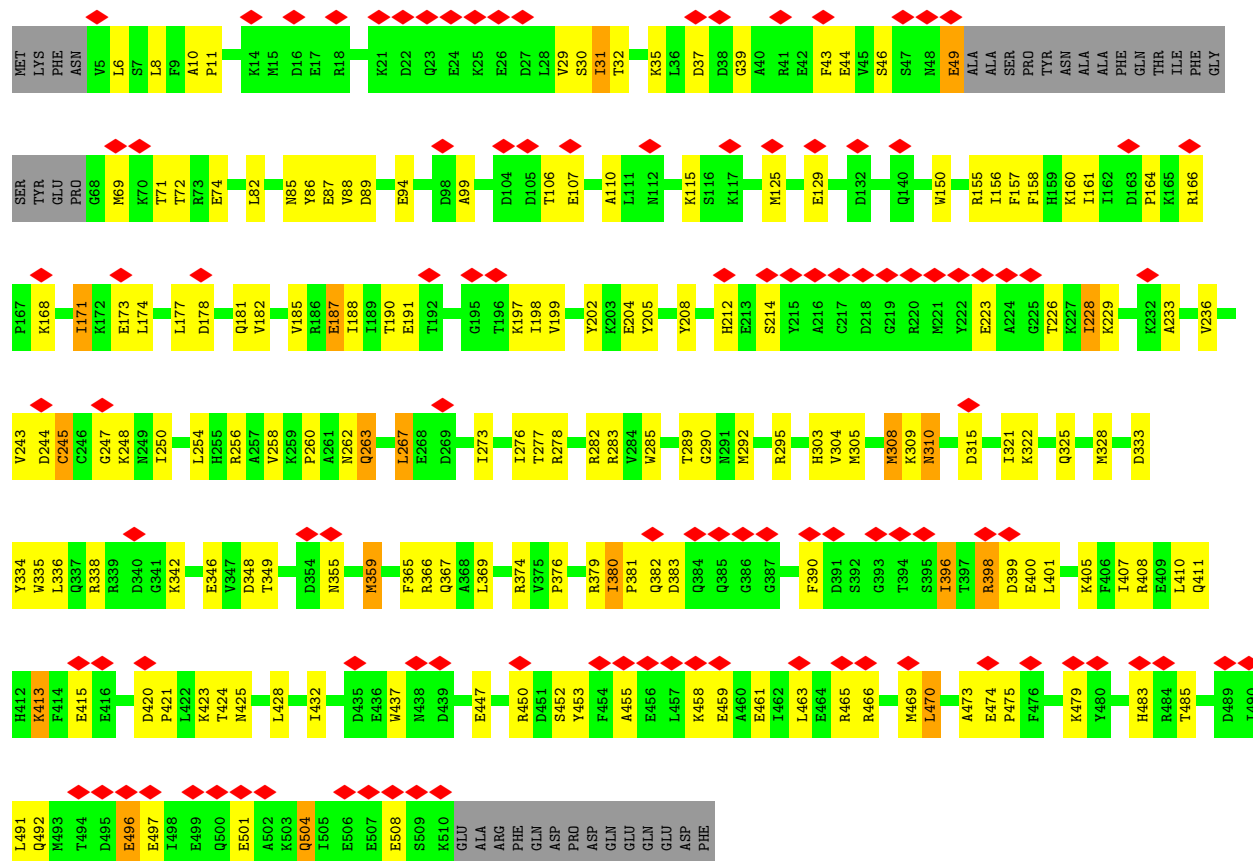


- Molecule 5: gp20, portal protein

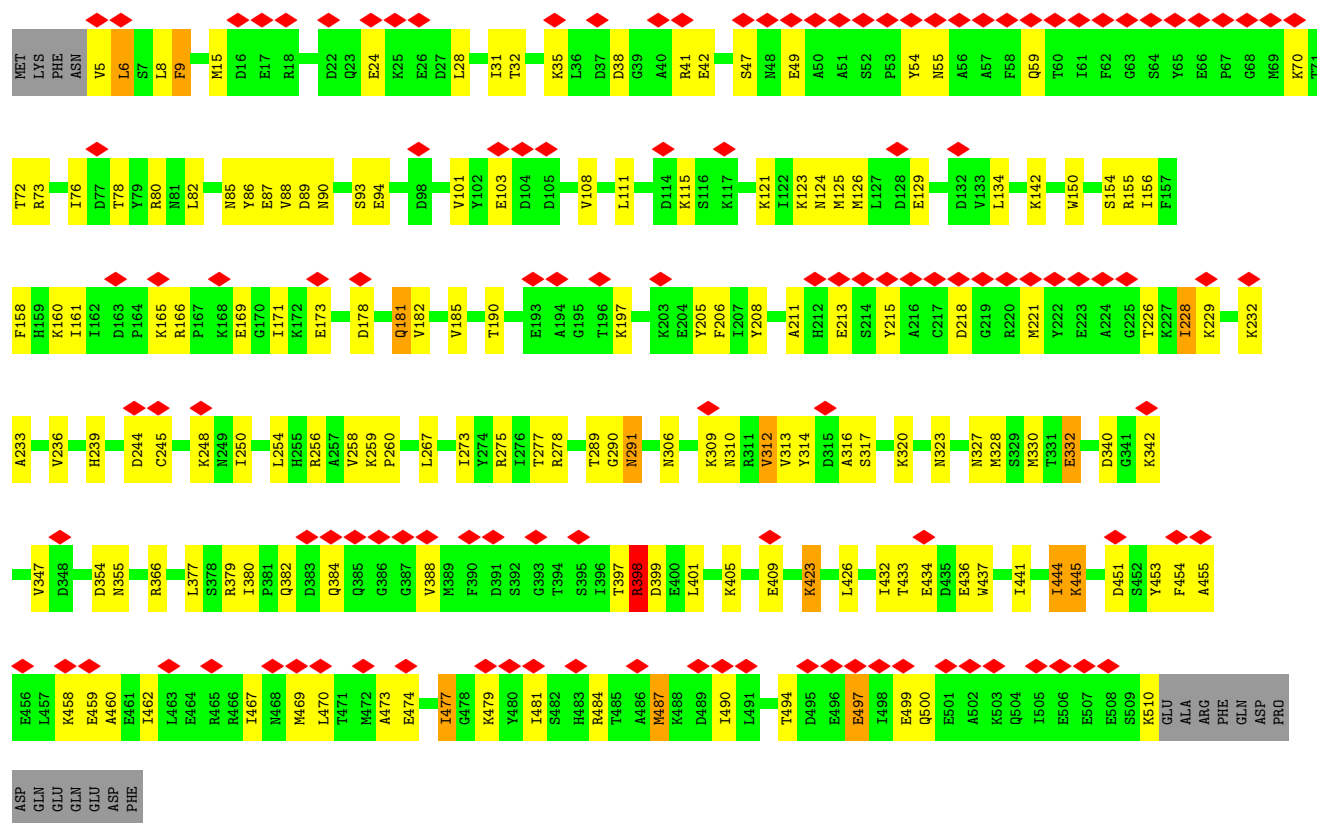




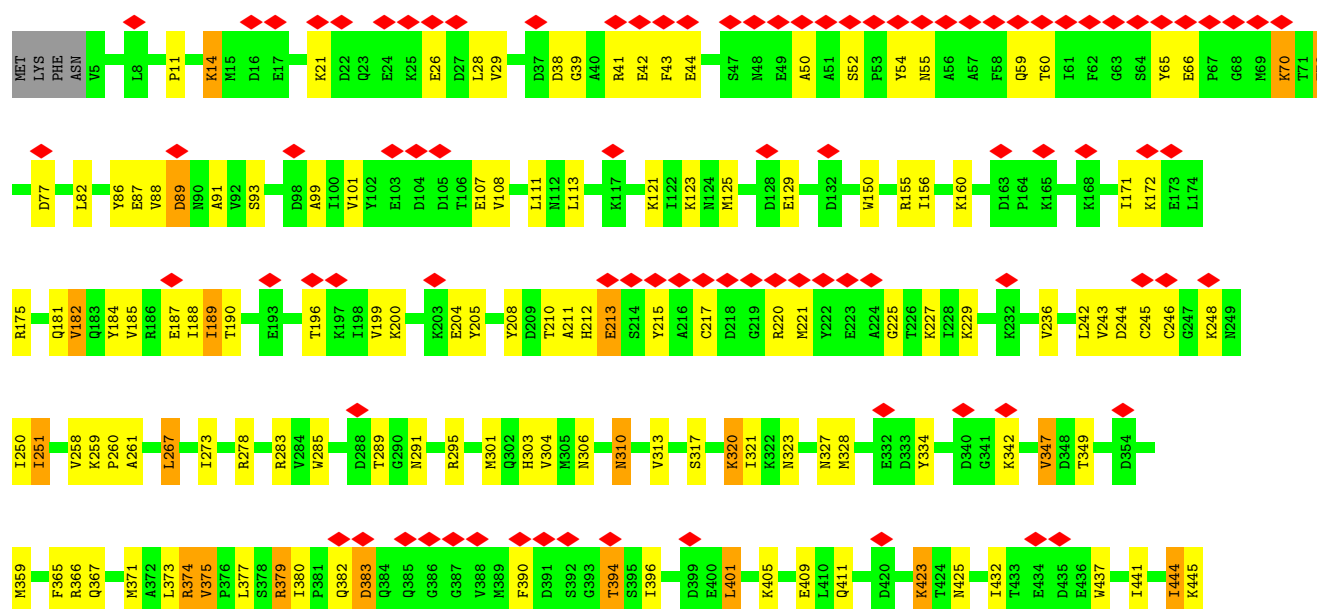
• Molecule 5: gp20, portal protein

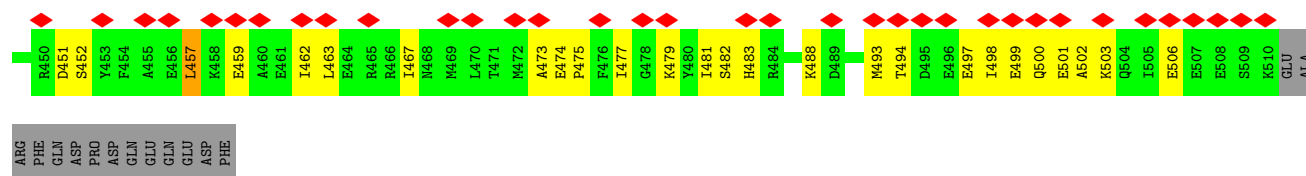


- Molecule 5: gp20, portal protein

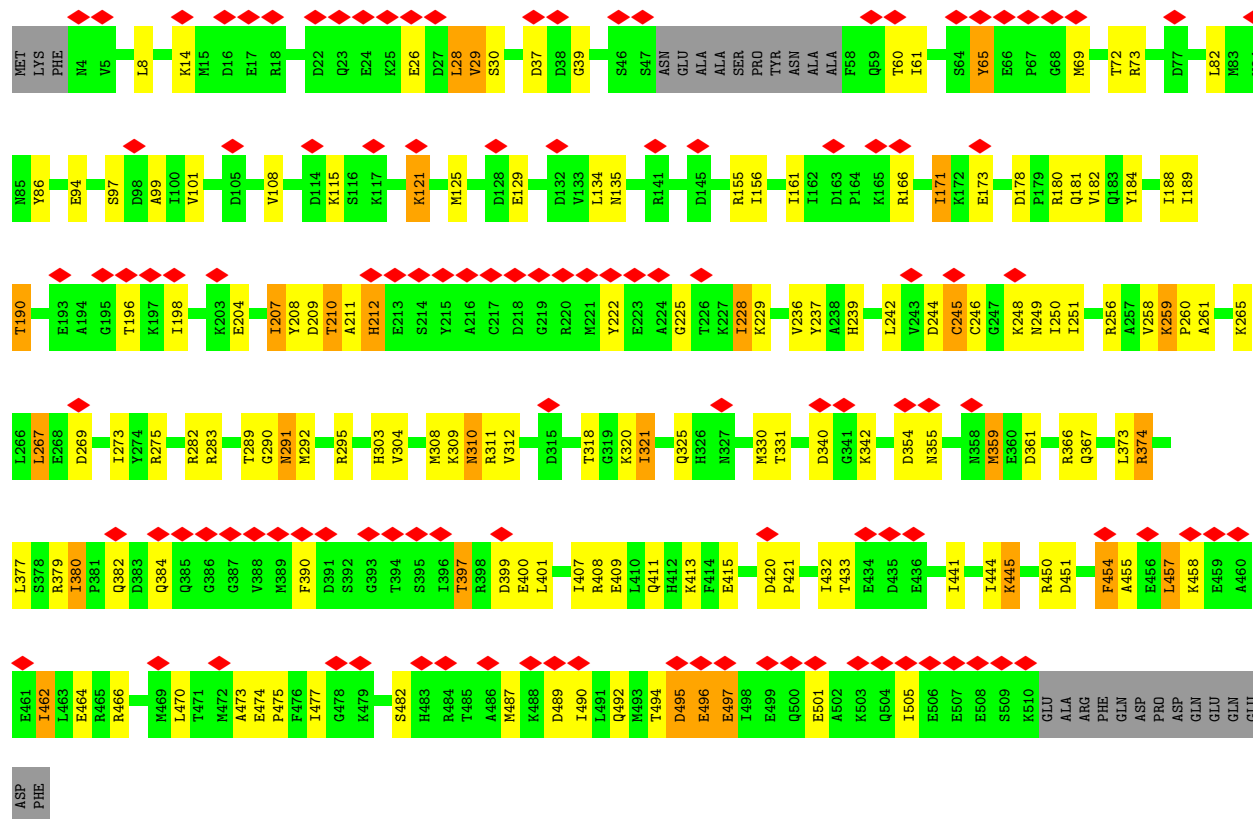


- Molecule 5: gp20, portal protein

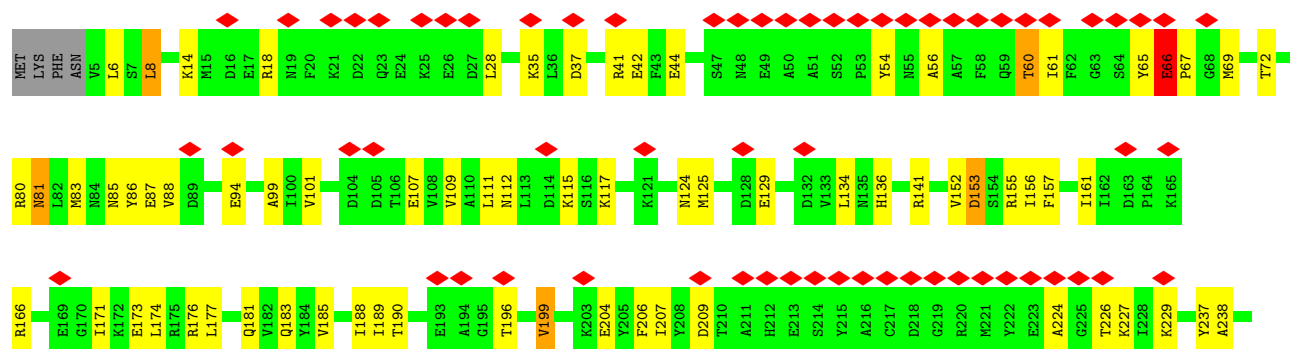


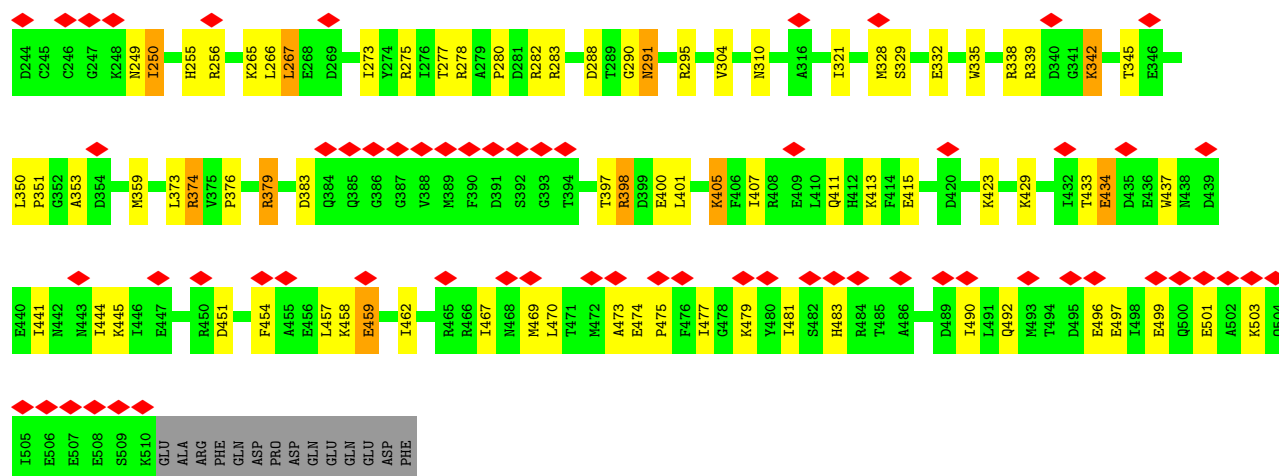


- Molecule 5: gp20, portal protein

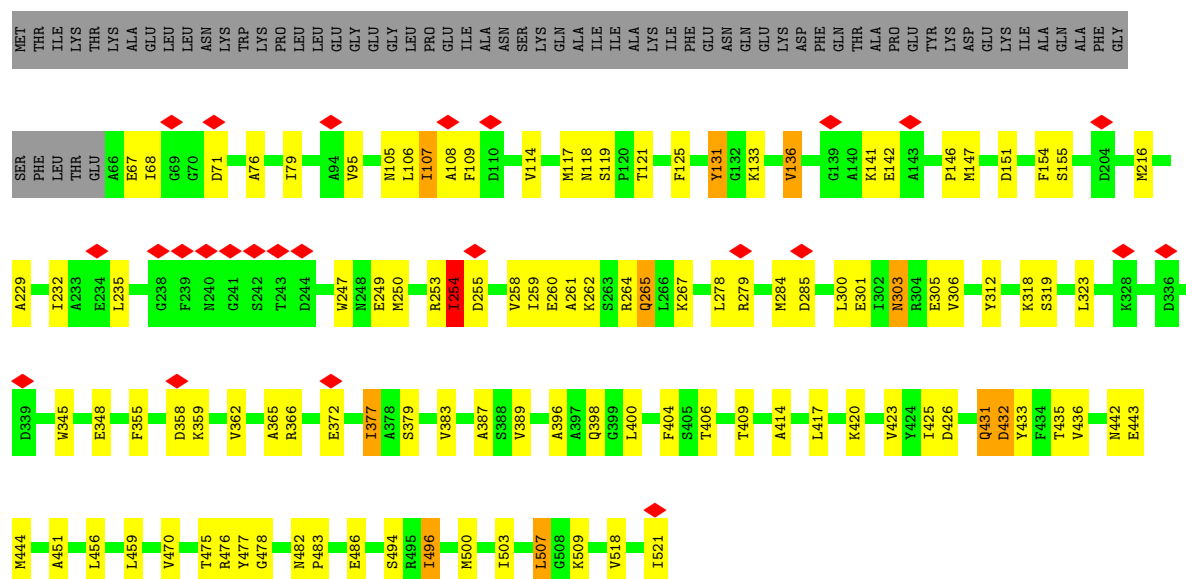


- Molecule 5: gp20, portal protein

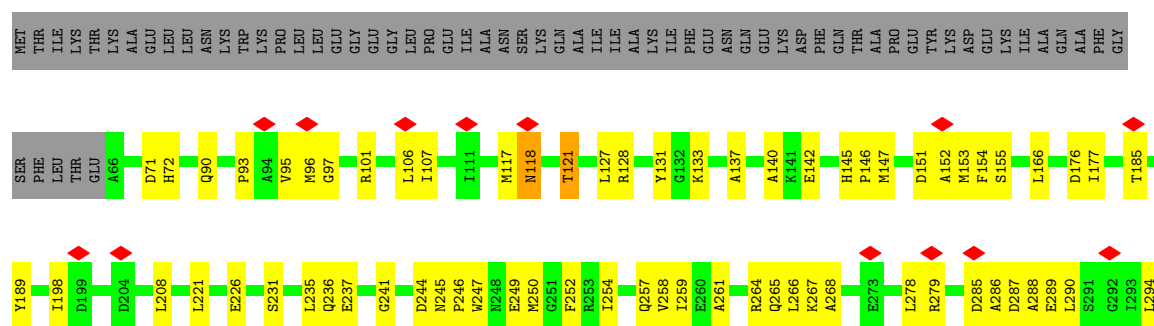


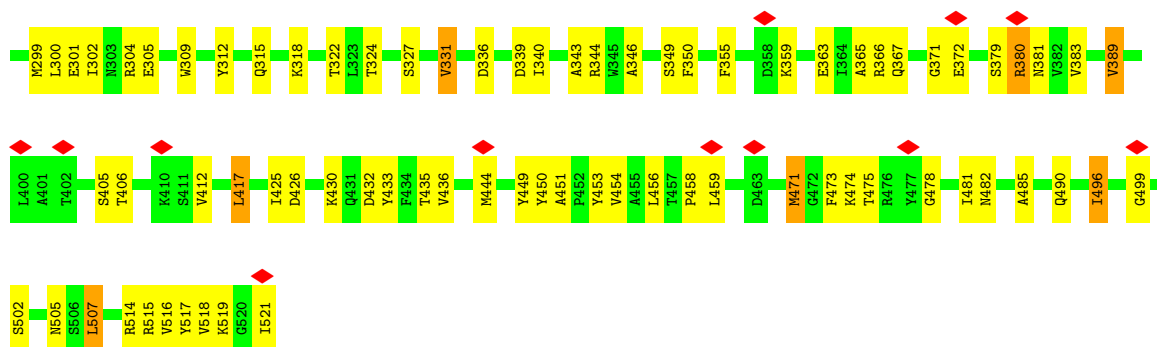


- Molecule 6: gp23, major capsid protein



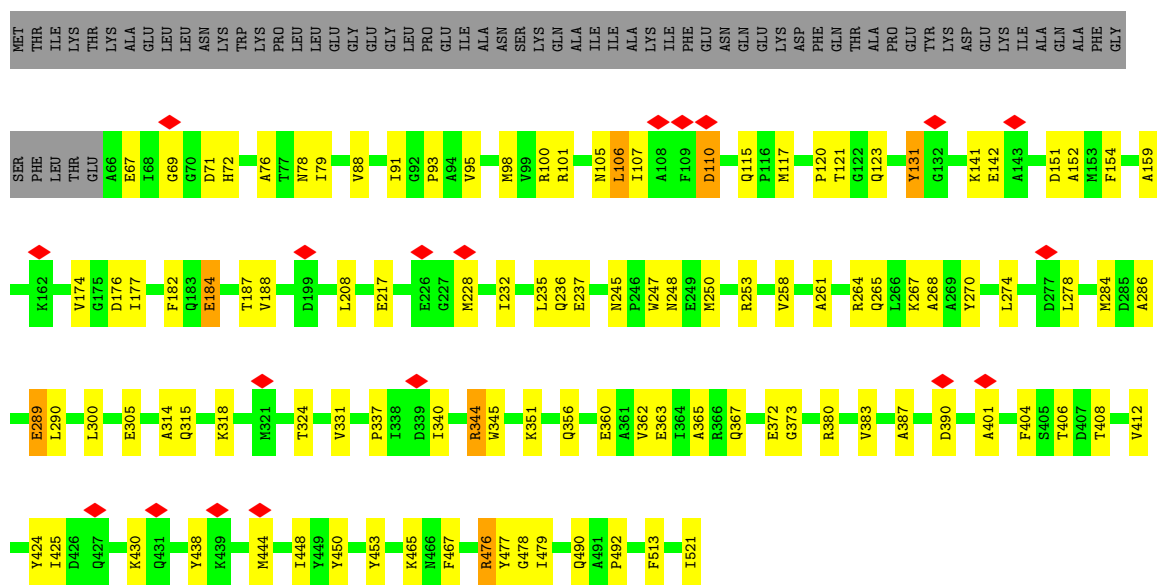
- Molecule 6: gp23, major capsid protein





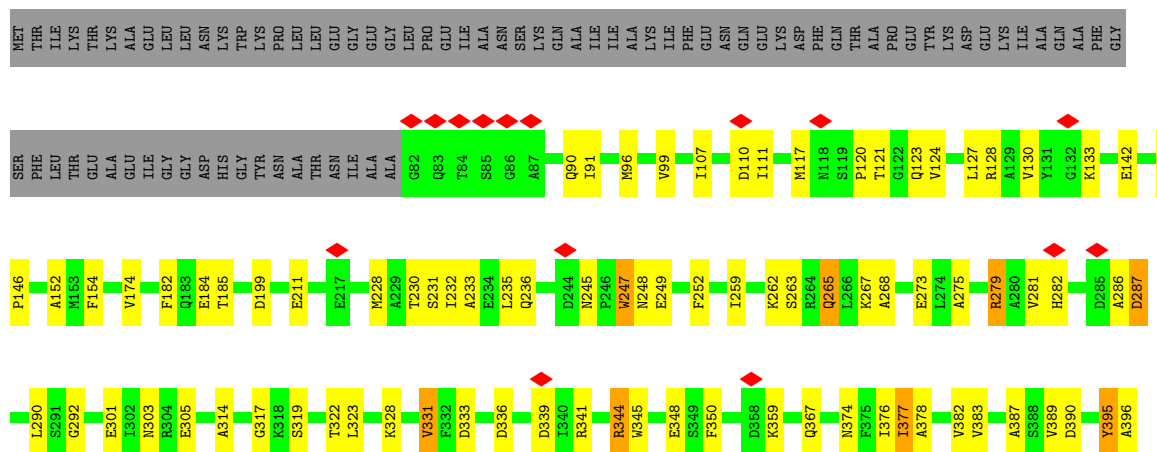
- Molecule 6: gp23, major capsid protein

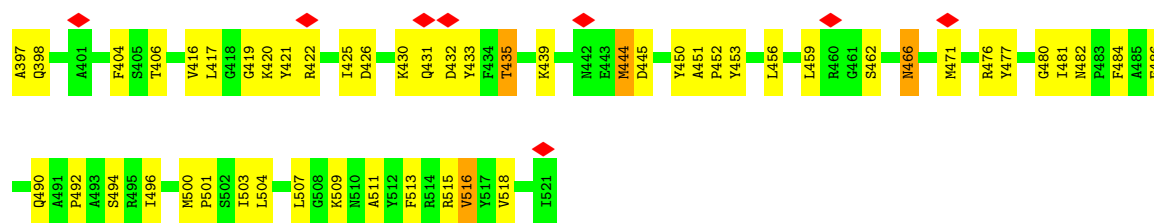
Chain A7: 67% 20% 12%



- Molecule 6: gp23, major capsid protein

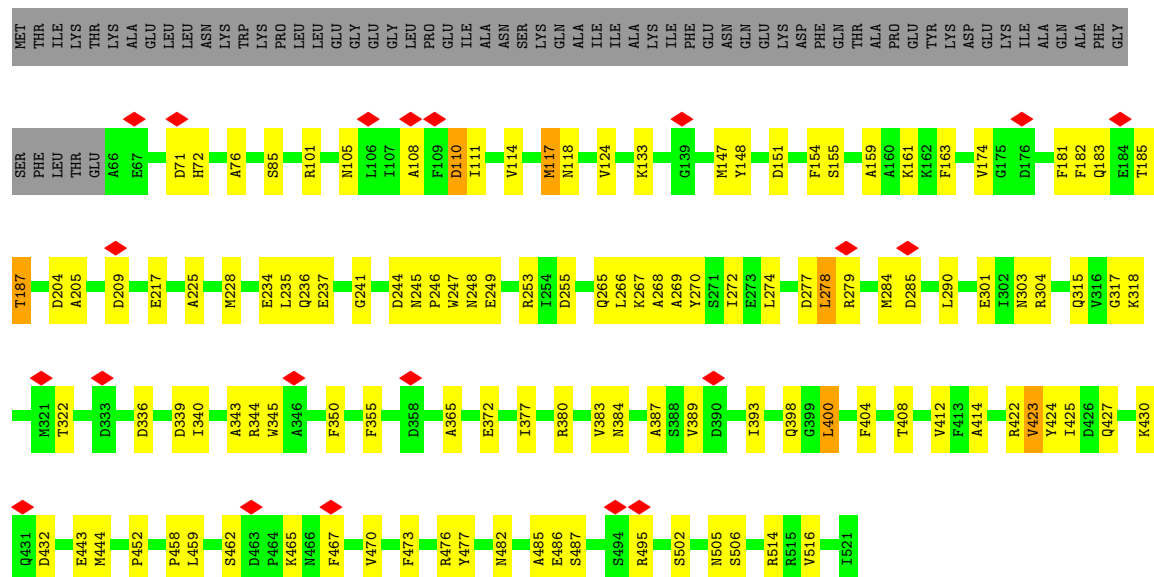
Chain A8: 58% 24% 16%





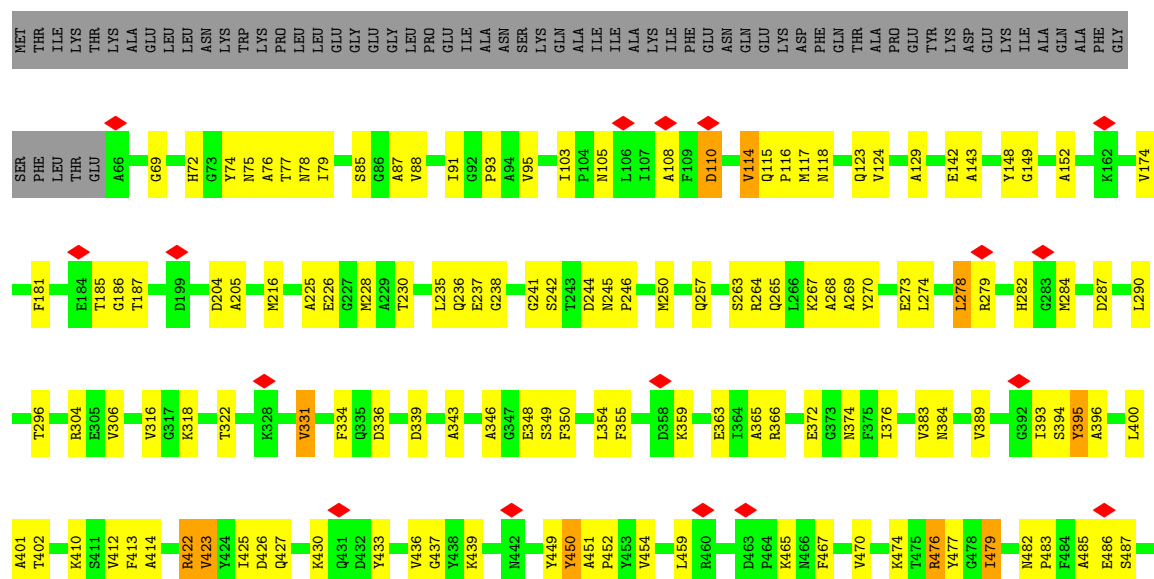
- Molecule 6: gp23, major capsid protein

Chain A9: 64% 22% 12%



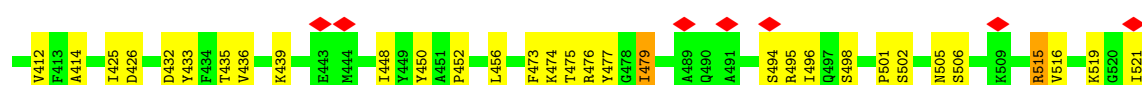
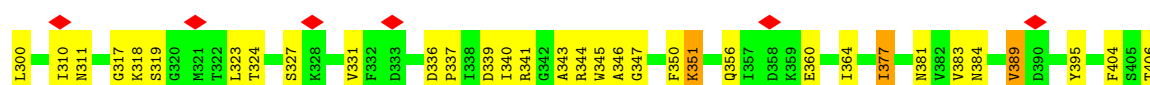
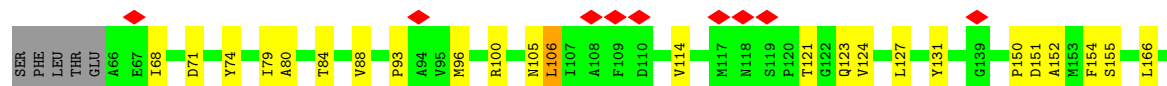
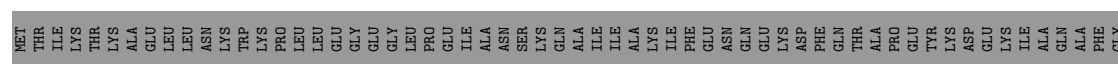
- Molecule 6: gp23, major capsid protein

Chain AV: 60% 26% 12%

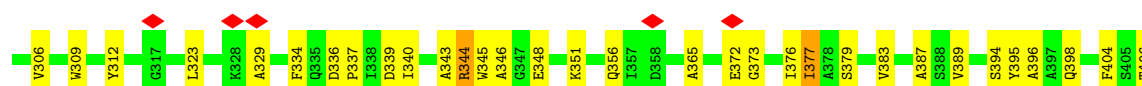
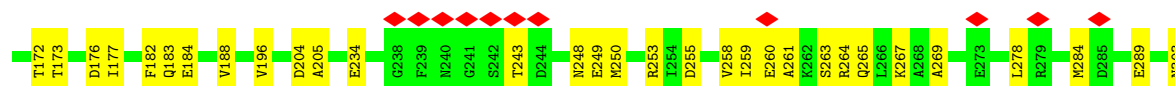
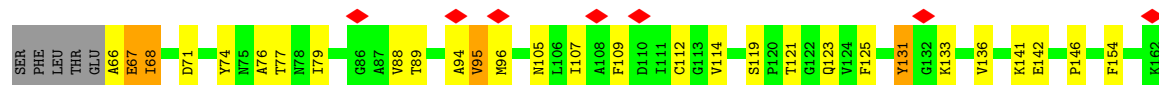
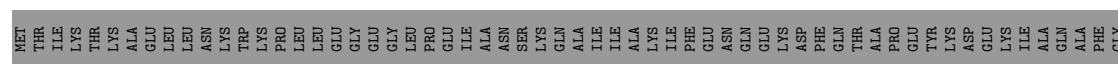




- Molecule 6: gp23, major capsid protein

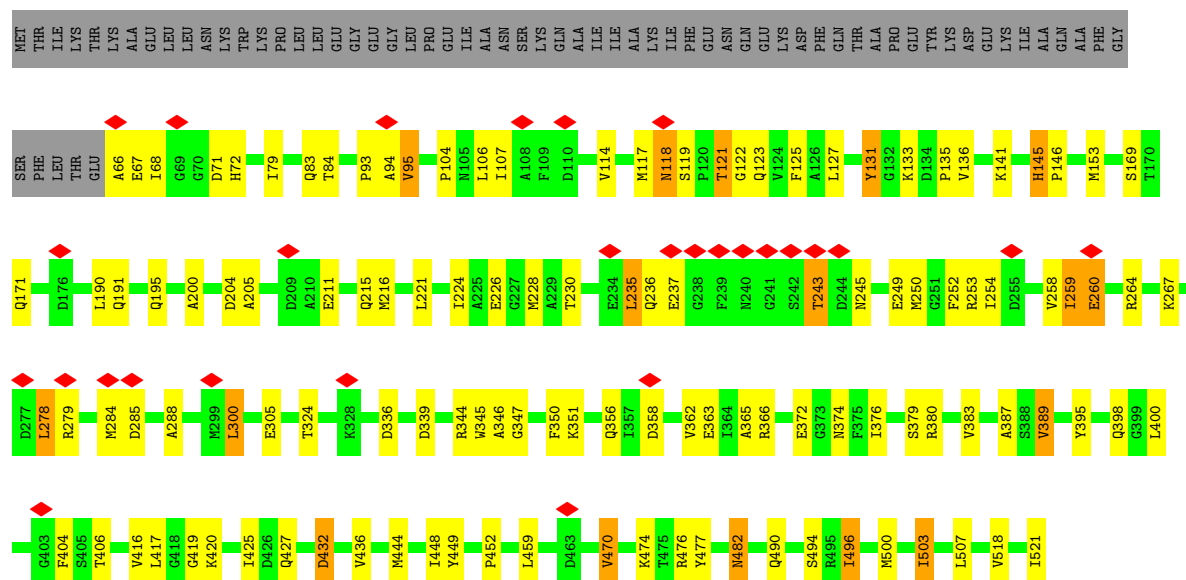


- Molecule 6: gp23, major capsid protein

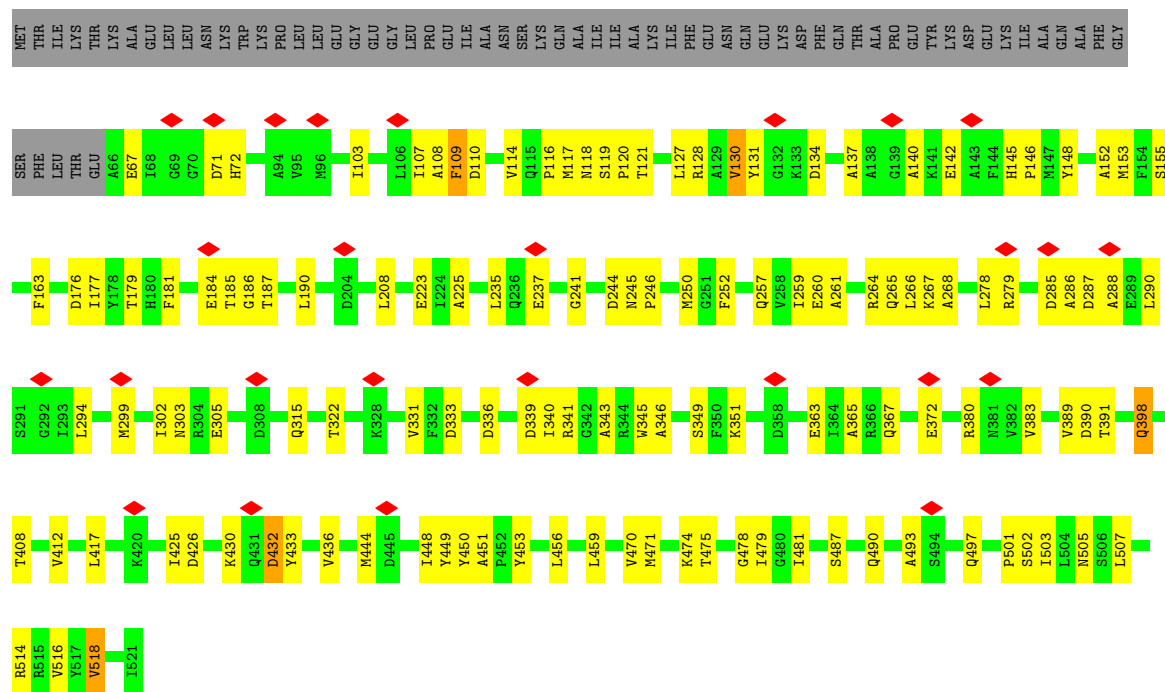


- Molecule 6: gp23, major capsid protein

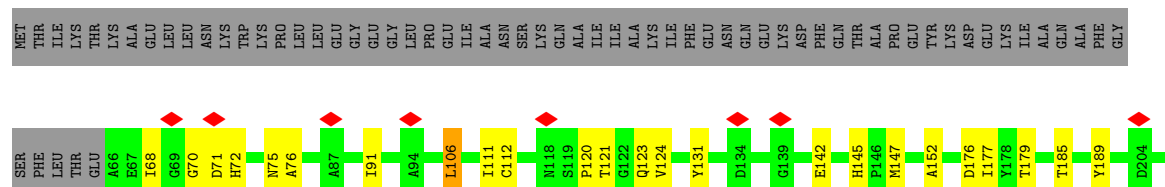


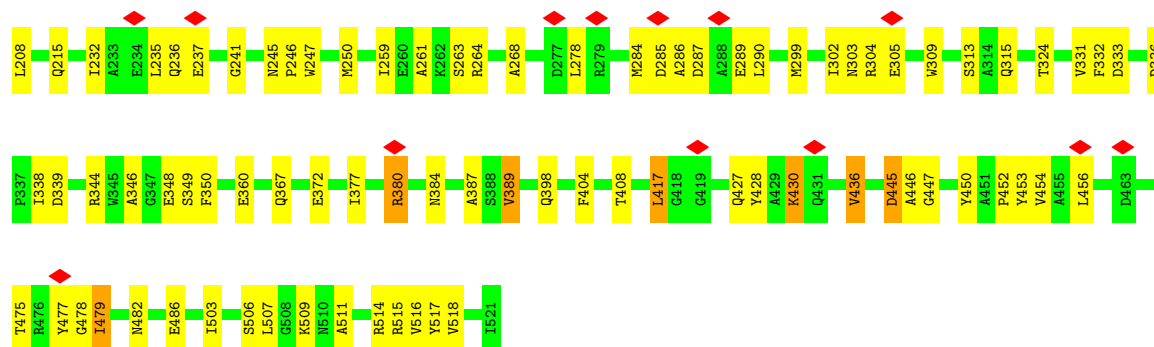


• Molecule 6: gp23, major capsid protein

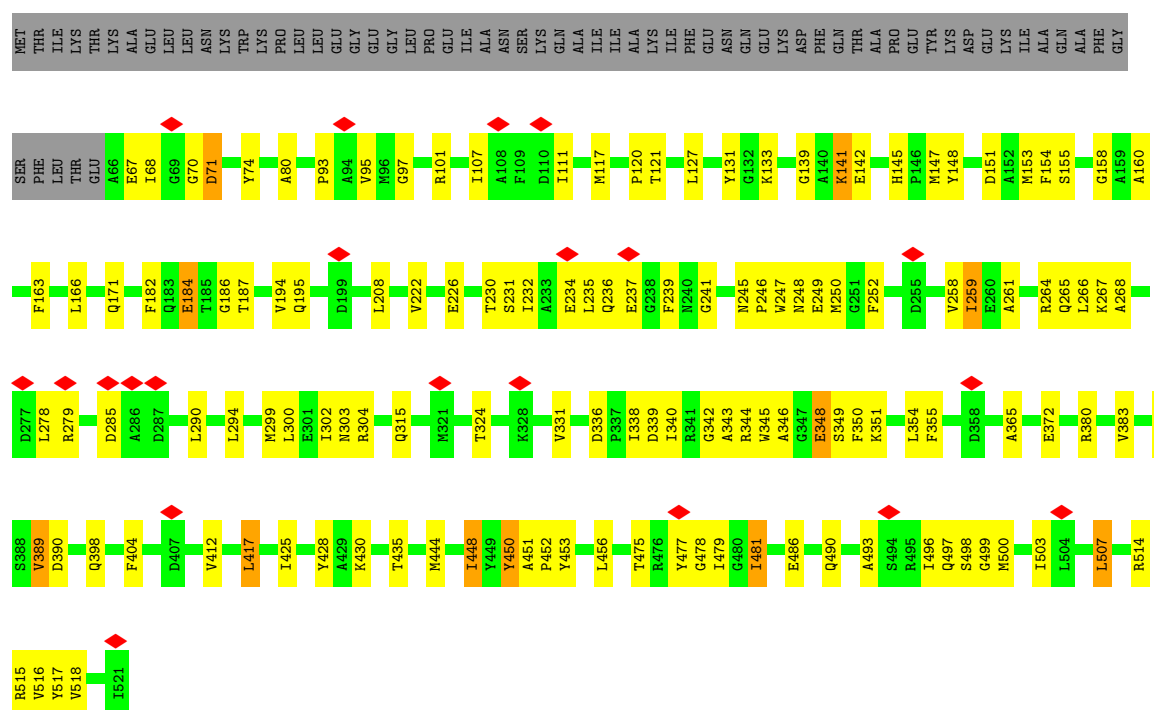


• Molecule 6: gp23, major capsid protein

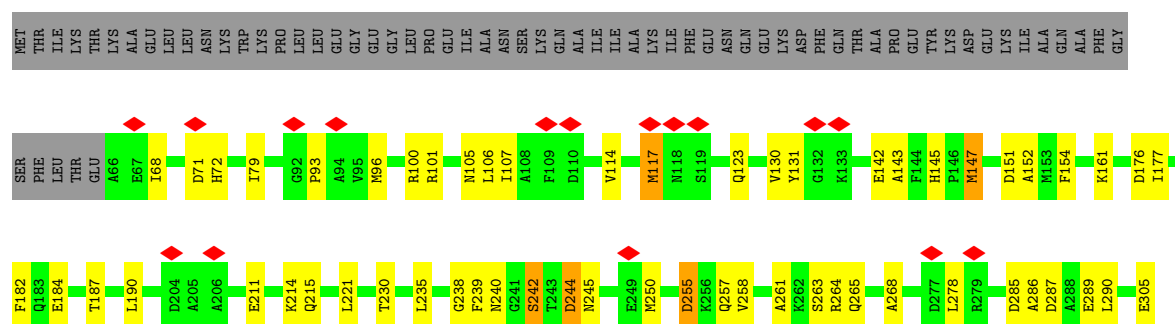


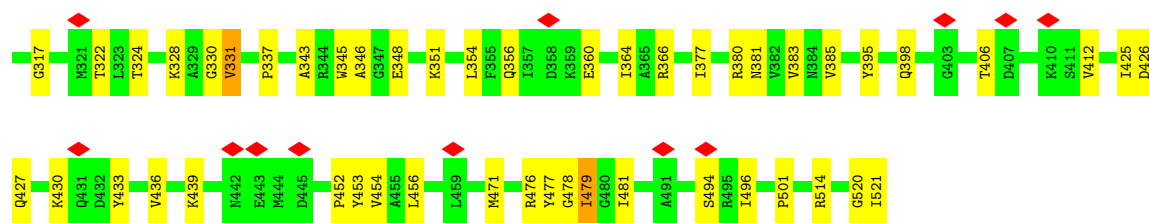


- Molecule 6: gp23, major capsid protein



- Molecule 6: gp23, major capsid protein

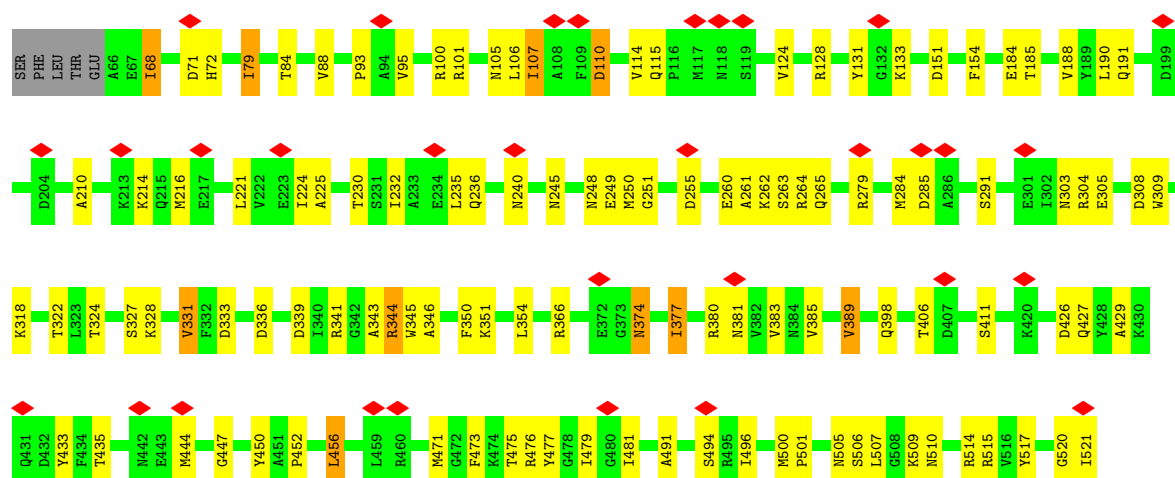




- Molecule 6: gp23, major capsid protein



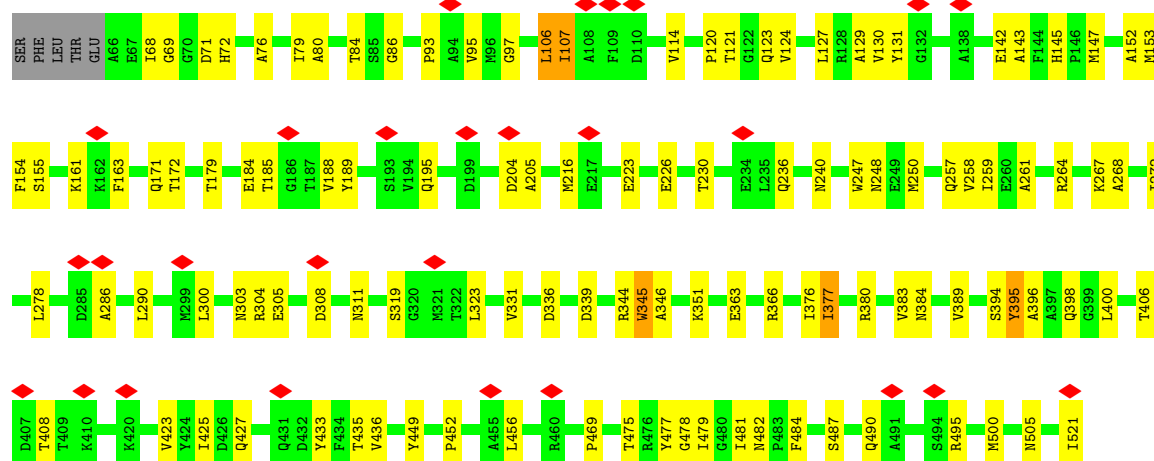
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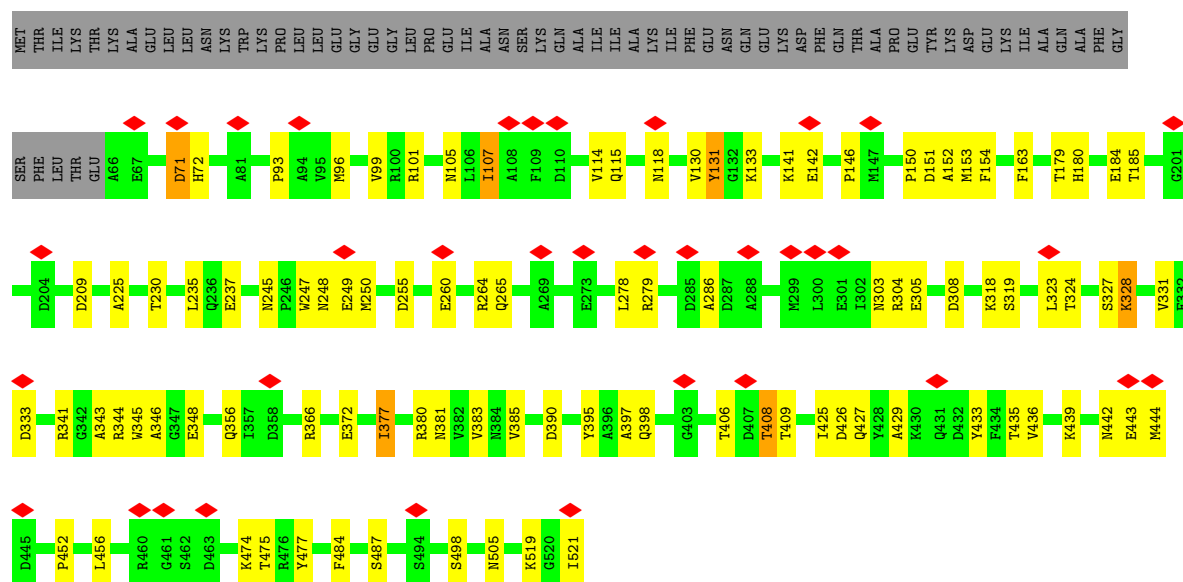
- Molecule 6: gp23, major capsid protein



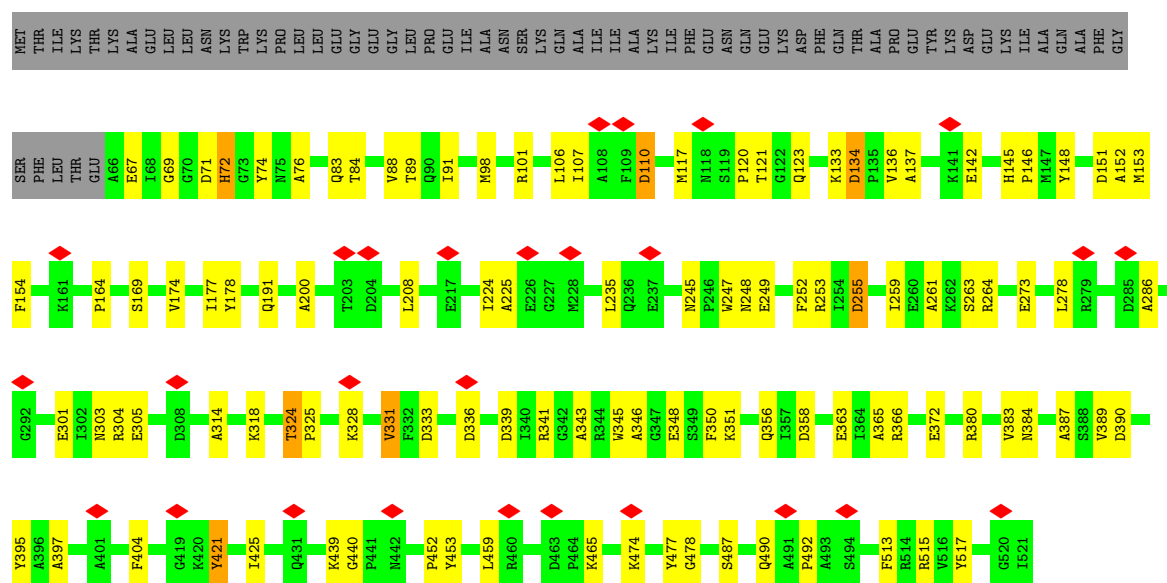
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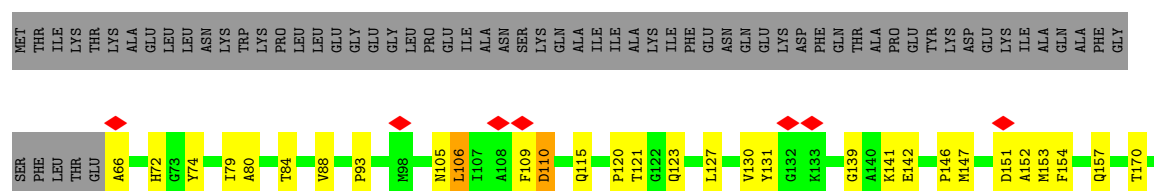
- Molecule 6: gp23, major capsid protein



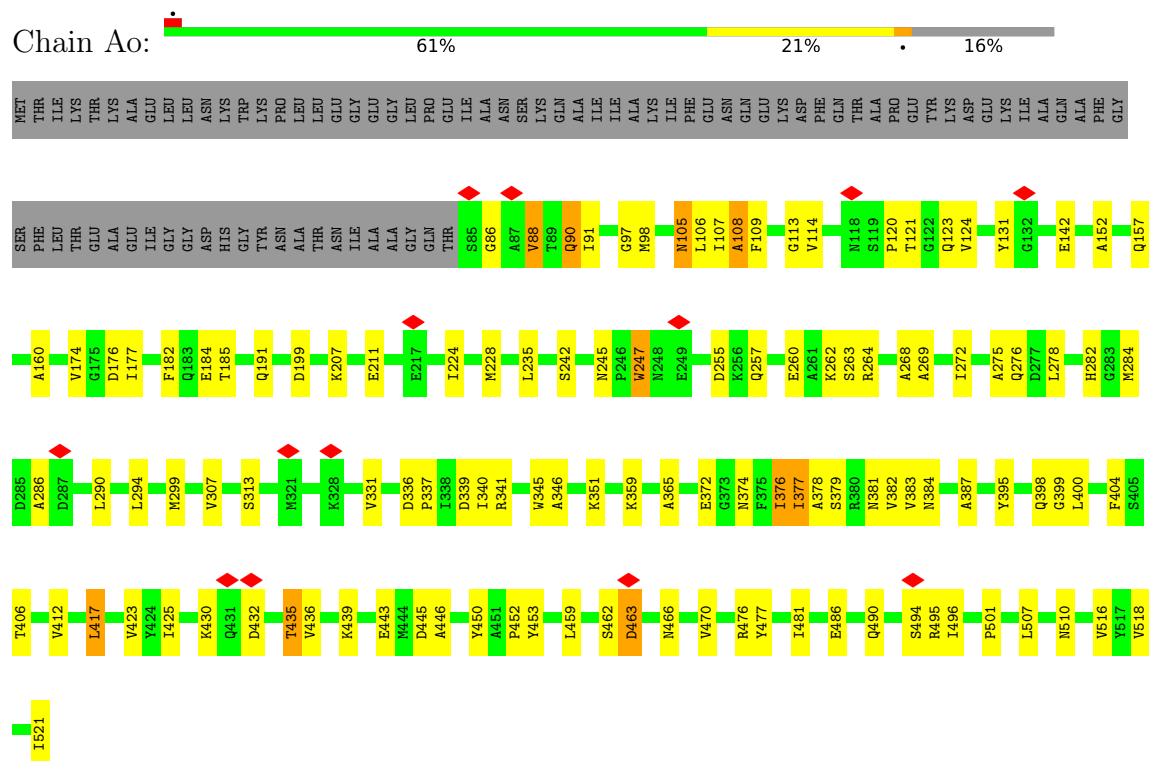
- Molecule 6: gp23, major capsid protein



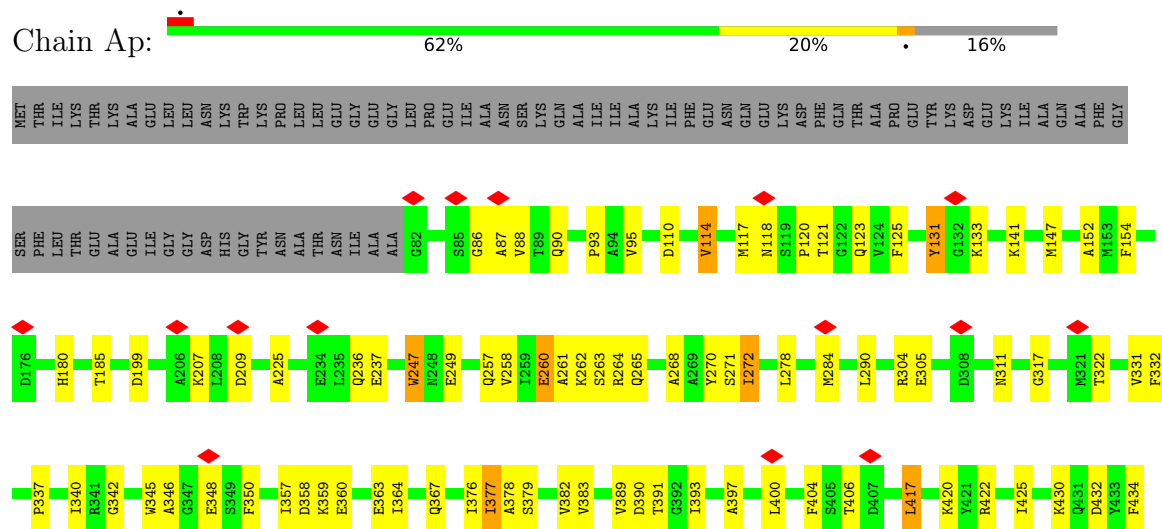
- Molecule 6: gp23, major capsid protein



- Molecule 6: gp23, major capsid protein

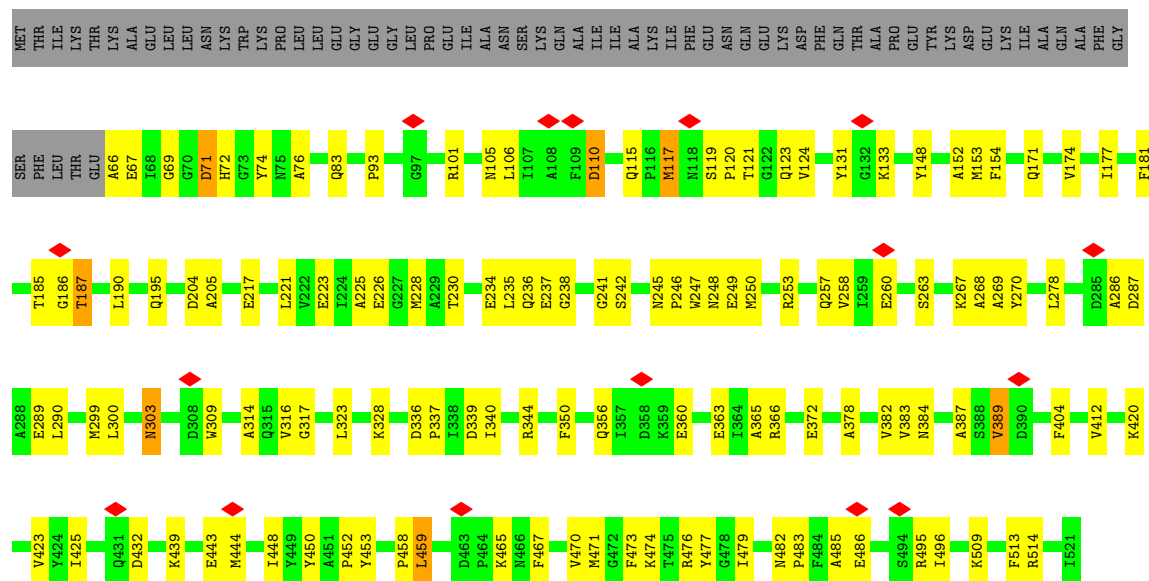


- Molecule 6: gp23, major capsid protein

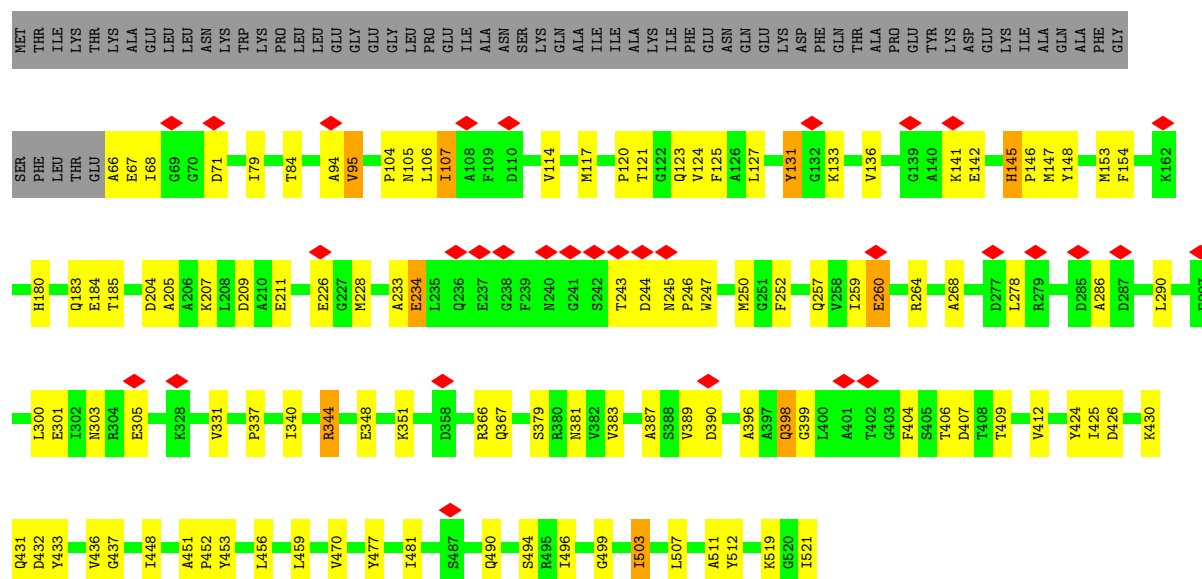




- Molecule 6: gp23, major capsid protein

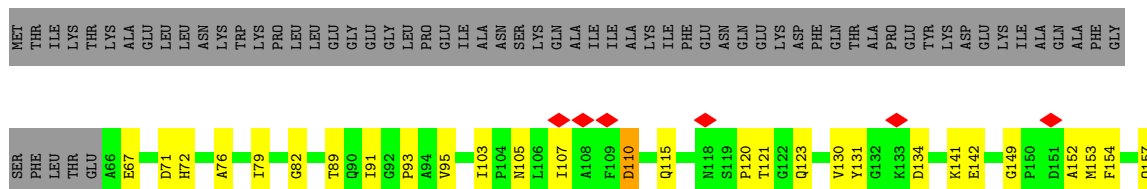


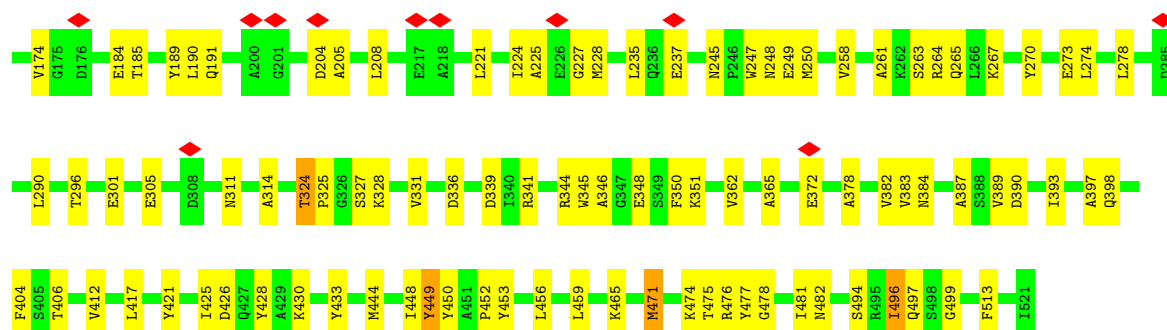
- Molecule 6: gp23, major capsid protein



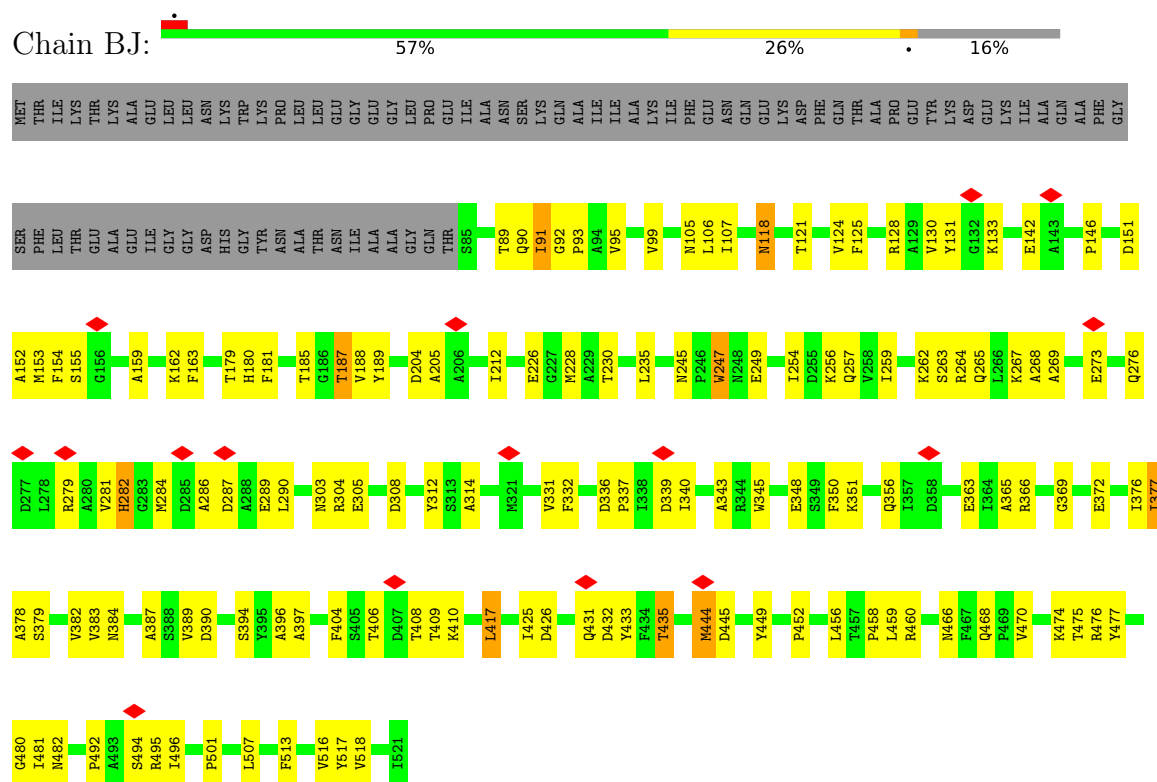
- Molecule 6: gp23, major capsid protein



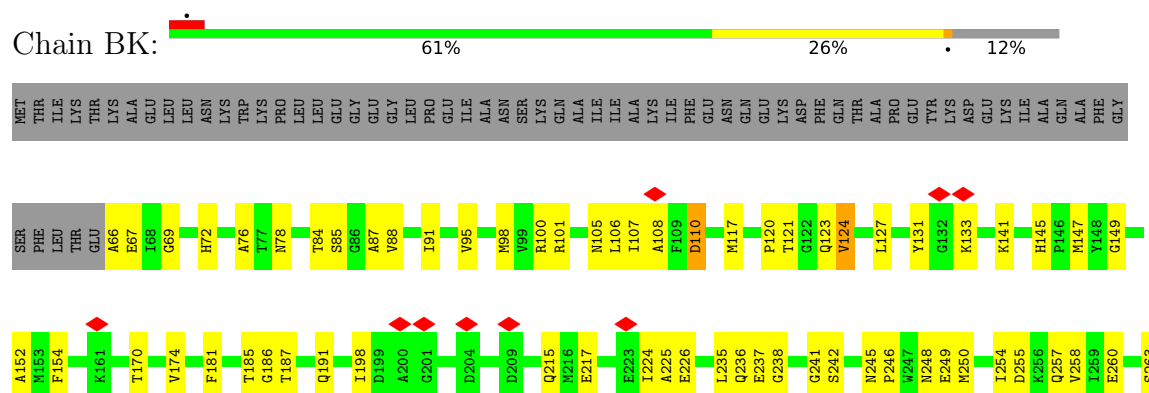


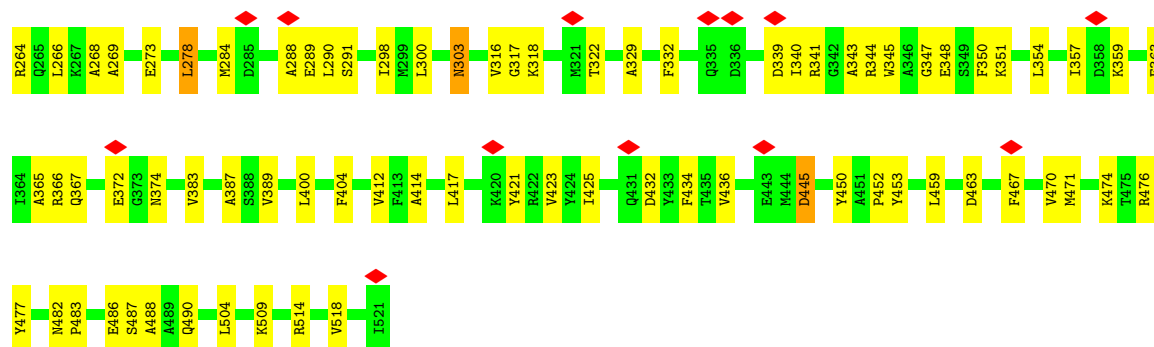


- Molecule 6: gp23, major capsid protein



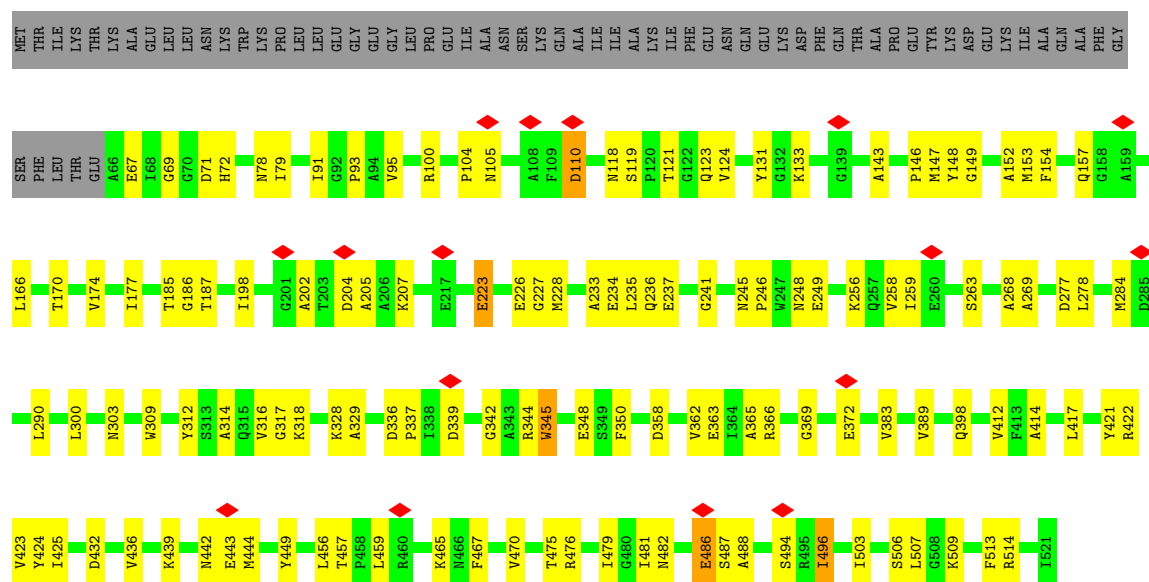
- Molecule 6: gp23, major capsid protein





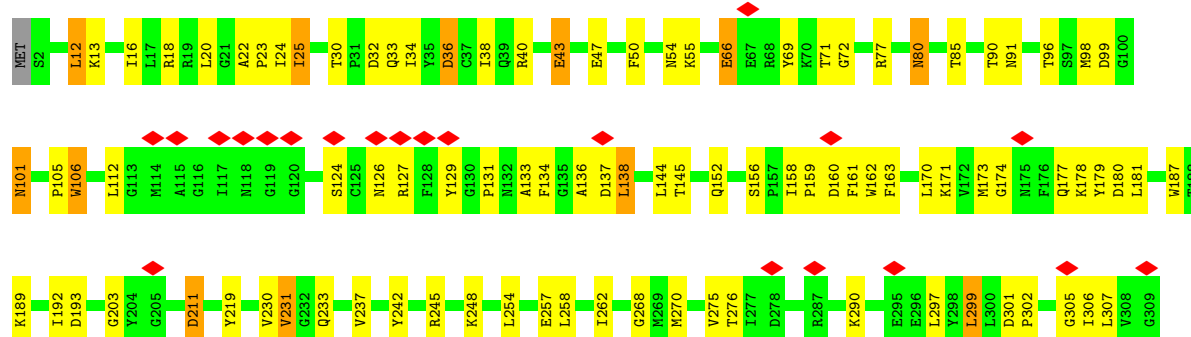
- Molecule 6: gp23, major capsid protein

Chain BM: 63% 24% 12%



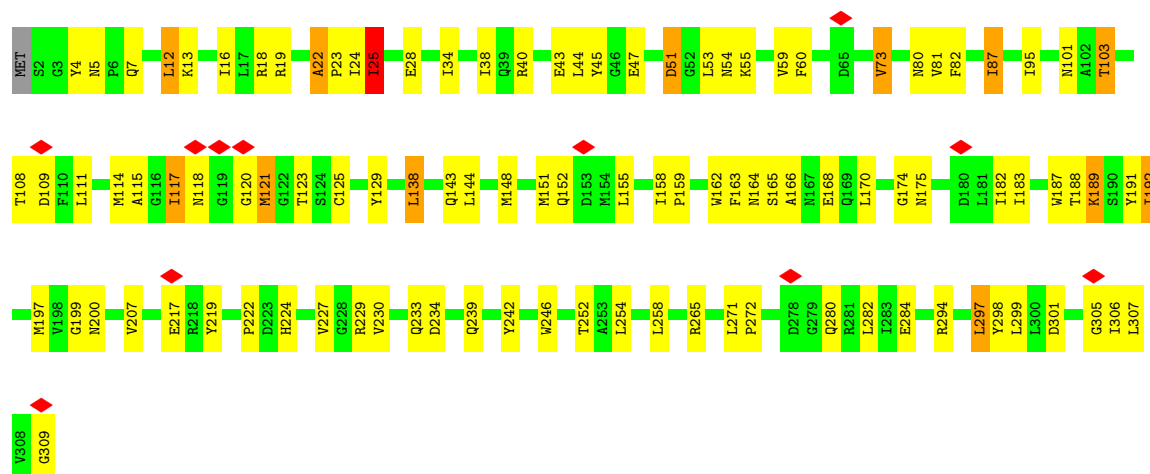
- Molecule 7: gp13, neck protein

Chain A6: 69% 27% 4%

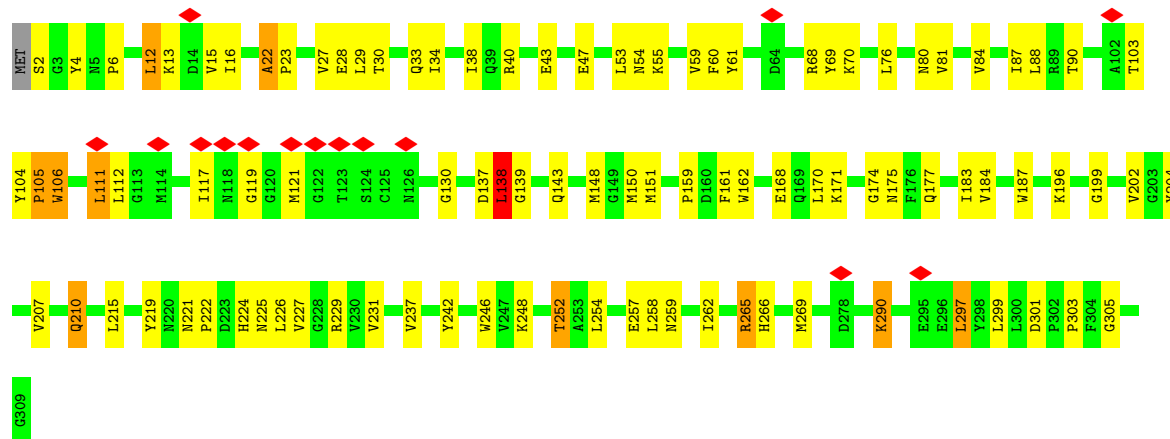


- Molecule 7: gp13, neck protein

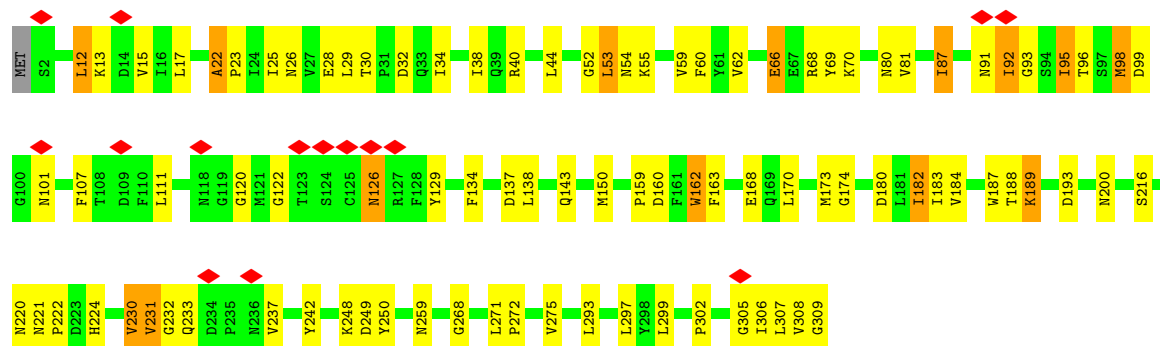
Chain AY: 66% 30% 4%



- Molecule 7: gp13, neck protein

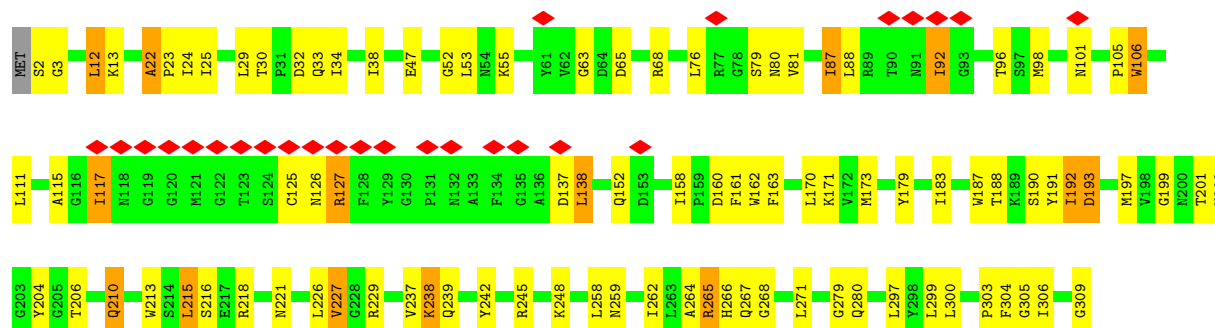


- Molecule 7: gp13, neck protein

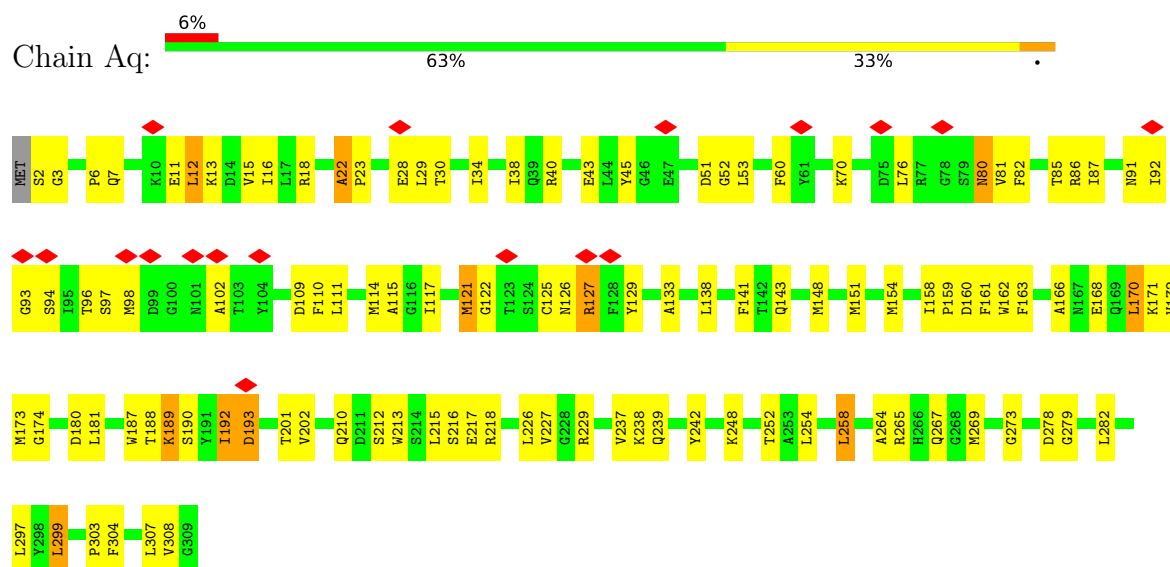


- Molecule 7: gp13, neck protein

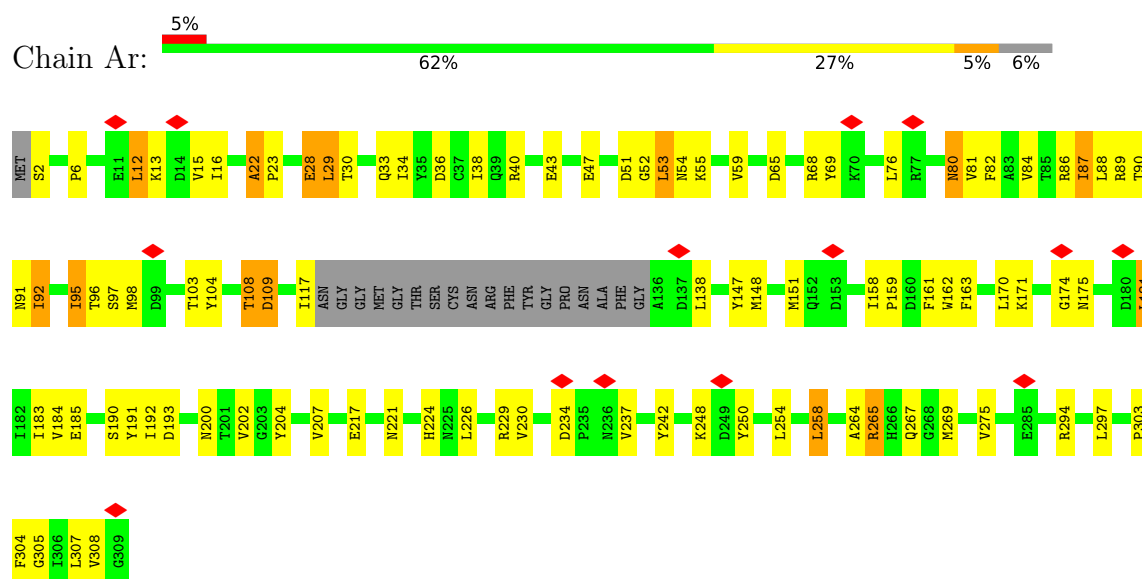




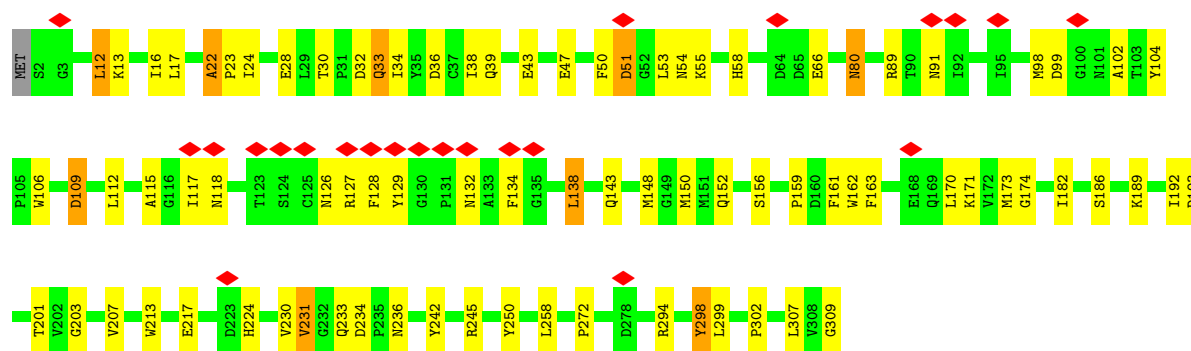
• Molecule 7: gp13, neck protein



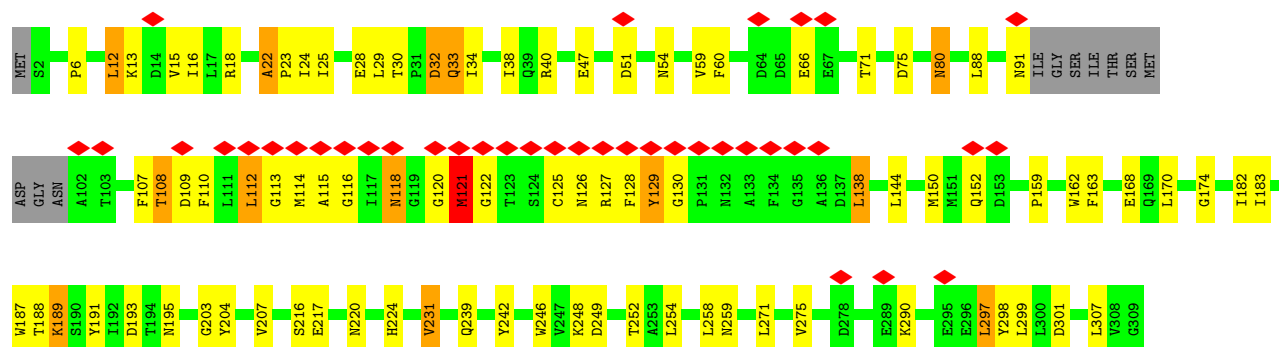
• Molecule 7: gp13, neck protein



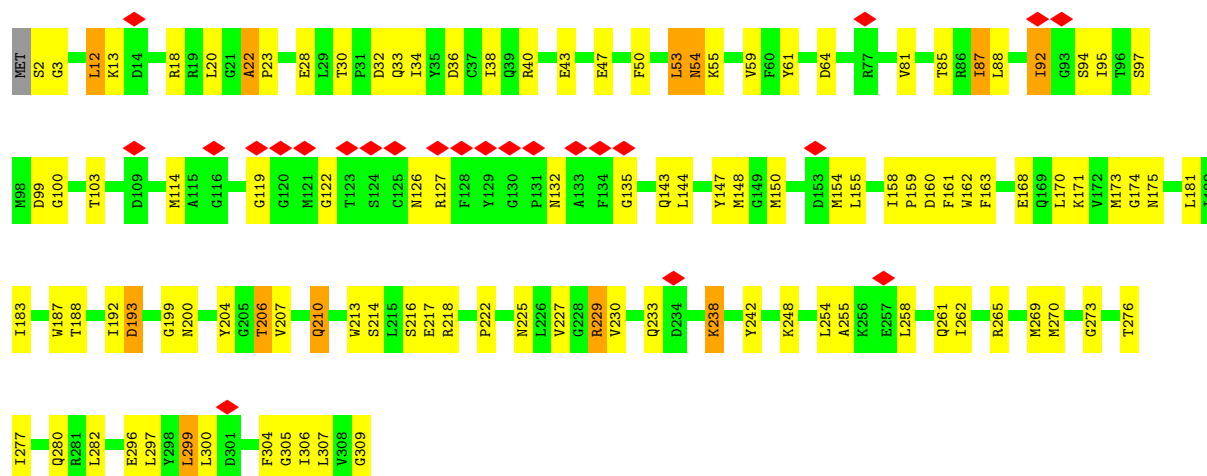
• Molecule 7: gp13, neck protein



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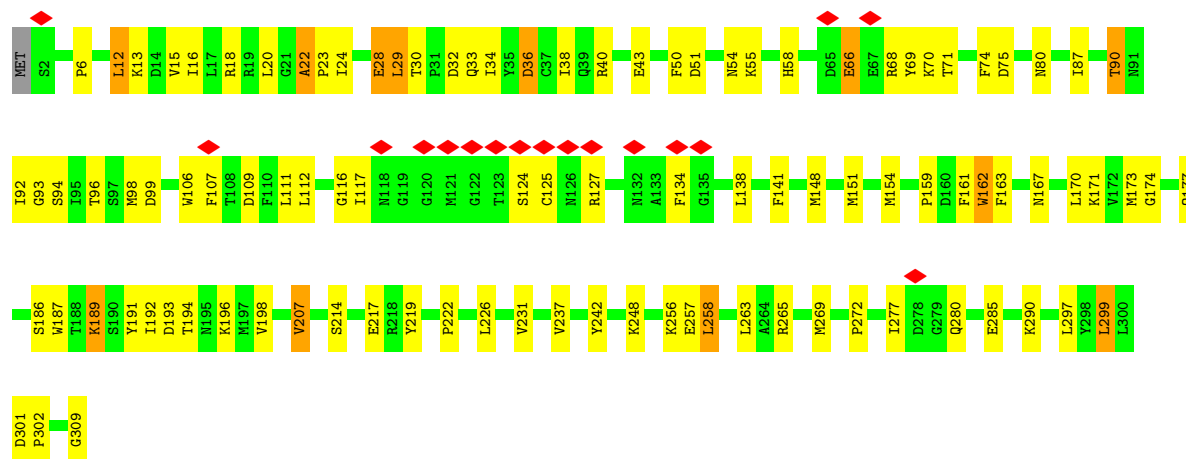


• Molecule 7: gp13, neck protein

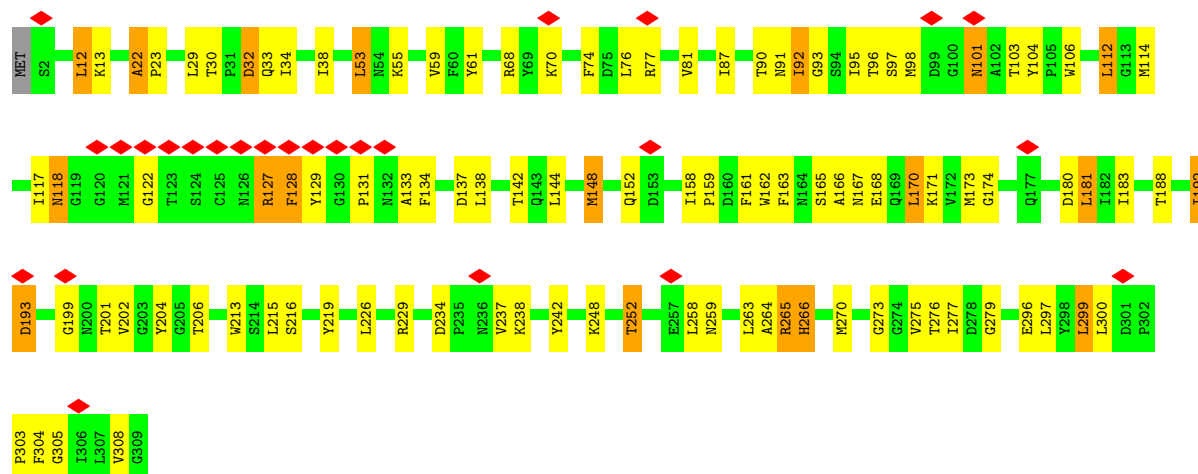


• Molecule 7: gp13, neck protein

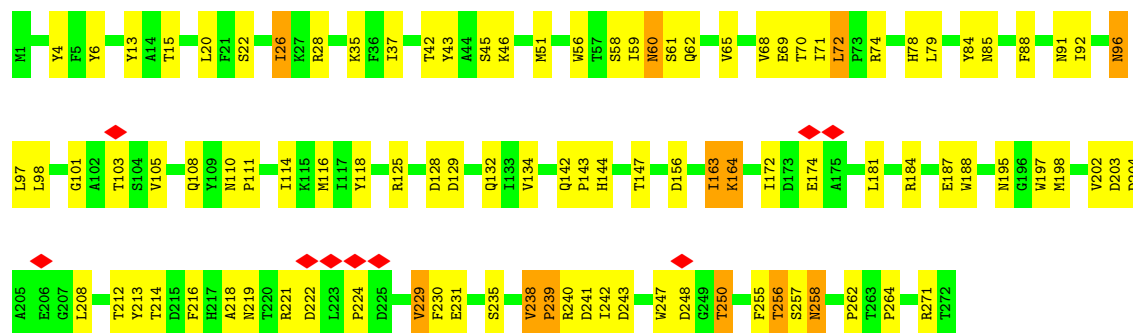




• Molecule 7: gp13, neck protein

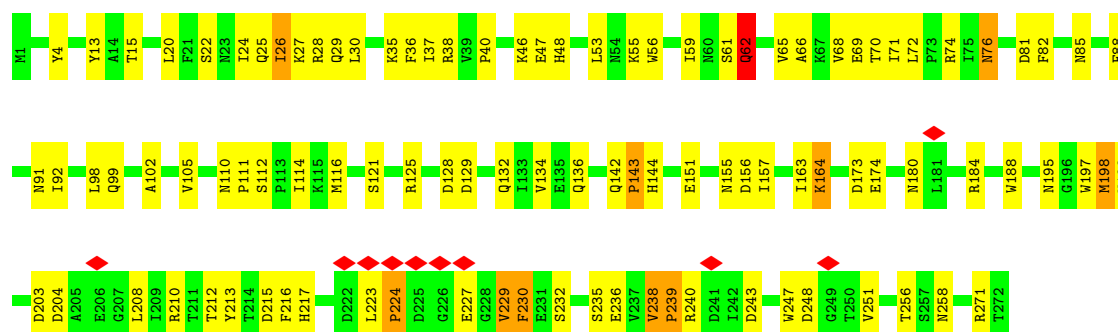


• Molecule 8: gp15, tail terminator protein

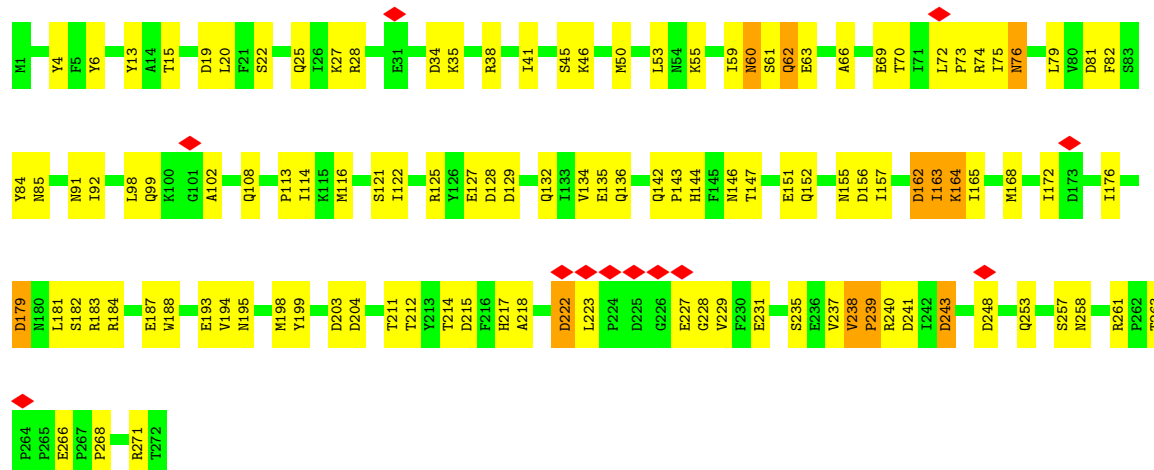


• Molecule 8: gp15, tail terminator protein

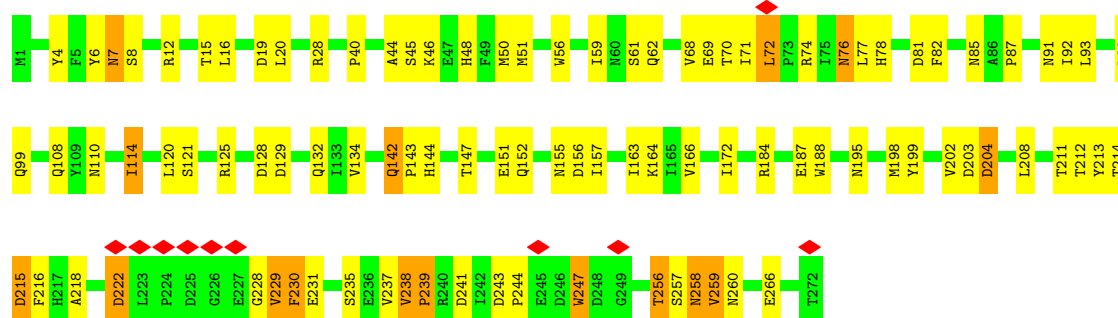




• Molecule 8: gp15, tail terminator protein

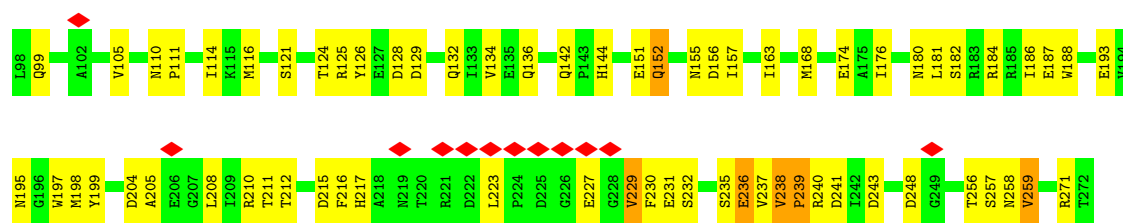


• Molecule 8: gp15, tail terminator protein

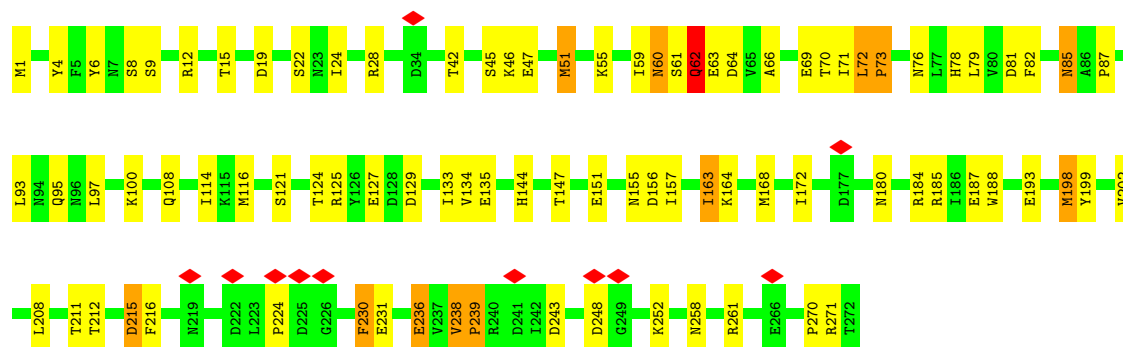


• Molecule 8: gp15, tail terminator protein

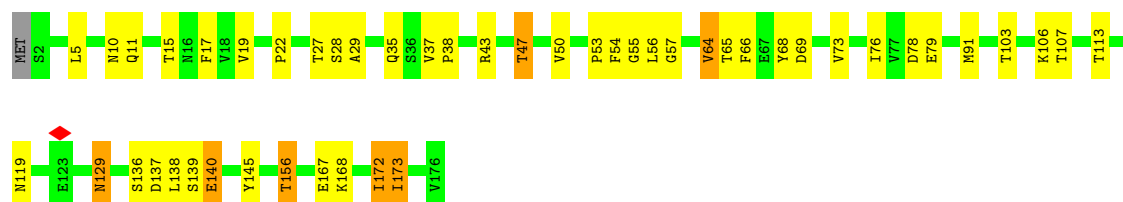
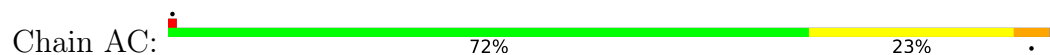




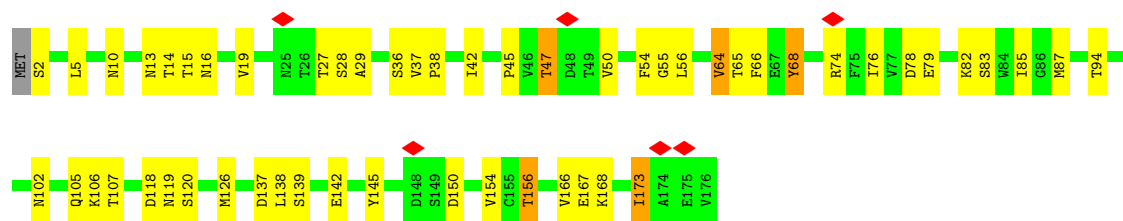
• Molecule 8: gp15, tail terminator protein



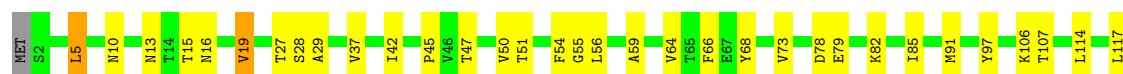
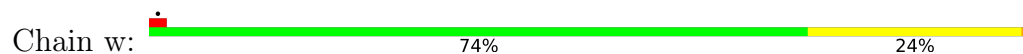
• Molecule 9: gp3, tube terminator protein



• Molecule 9: gp3, tube terminator protein

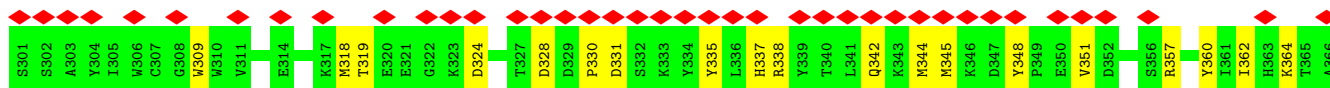
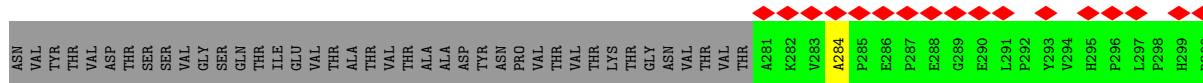
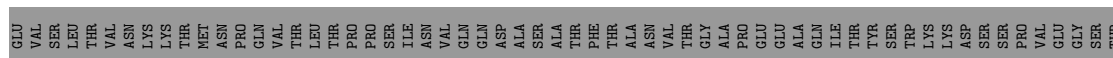
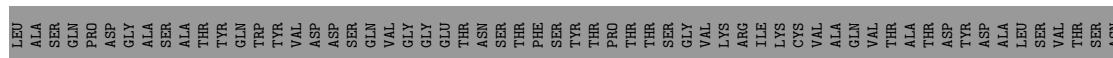
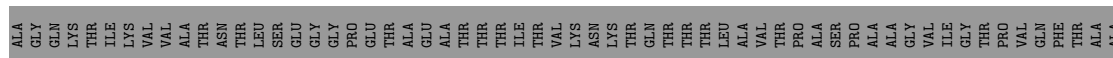
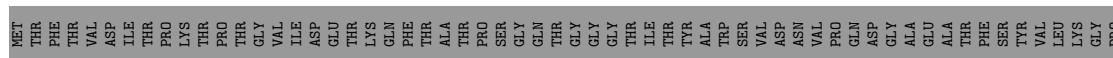


• Molecule 9: gp3, tube terminator protein

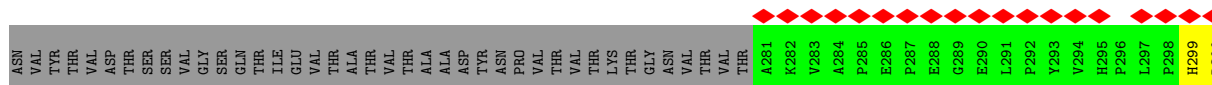
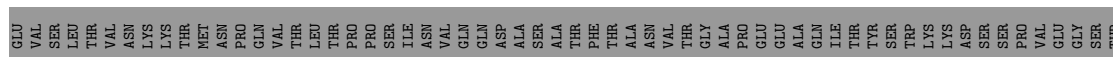
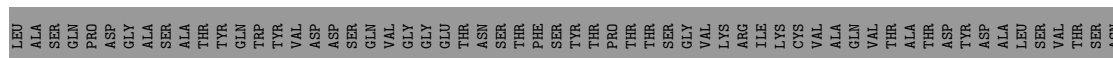
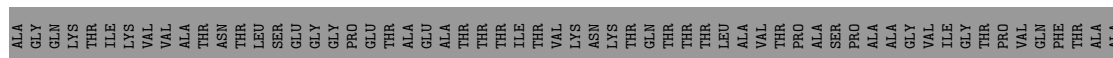
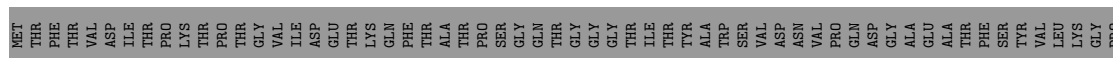


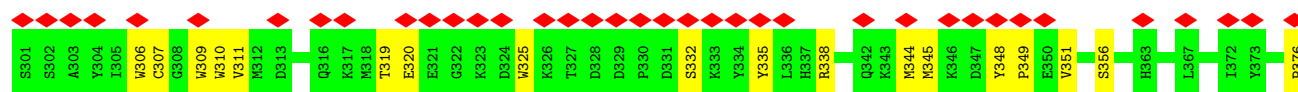


- Molecule 10: Hoc, highly immunogenic outer capsid protein.

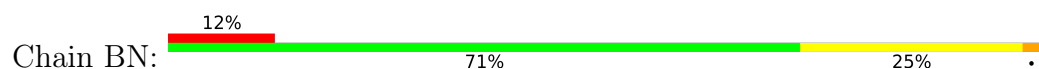


- Molecule 10: Hoc, highly immunogenic outer capsid protein.

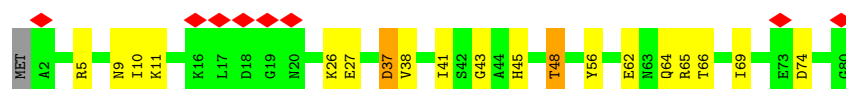




- Molecule 11: Soc, small outer capsid protein



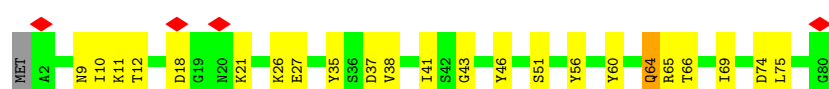
- Molecule 11: Soc, small outer capsid protein



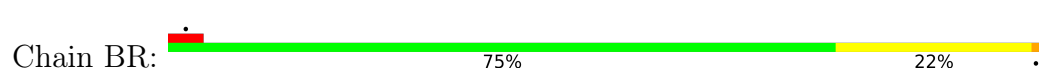
- Molecule 11: Soc, small outer capsid protein



- Molecule 11: Soc, small outer capsid protein



- Molecule 11: Soc, small outer capsid protein

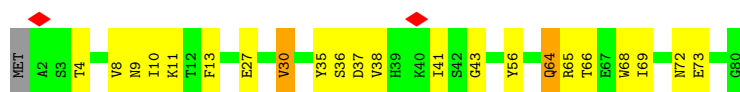


- Molecule 11: Soc, small outer capsid protein



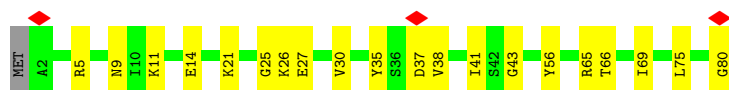
- Molecule 11: Soc, small outer capsid protein

Chain BT:  71% 25% ..



- Molecule 11: Soc, small outer capsid protein

Chain BU:  74% 25% .



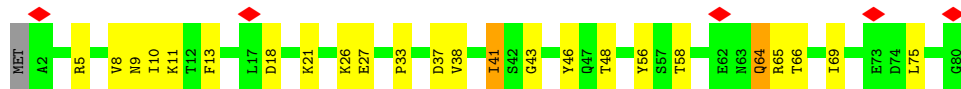
- Molecule 11: Soc, small outer capsid protein

Chain BV:  79% 19% ..



- Molecule 11: Soc, small outer capsid protein

Chain BW:  6% 69% 28% ..



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	69000	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 ($e^-/\text{\AA}^2$)	38	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.090	Depositor
Minimum map value	-0.059	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.015	Depositor
Map size ($\text{\AA}$)	646.4, 646.4, 646.4	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.616, 1.616, 1.616	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	0	0.12	0/2042	0.40	0/2768
1	k	0.13	0/2042	0.40	0/2768
1	l	0.13	0/2042	0.41	0/2768
1	m	0.12	0/2042	0.38	0/2768
1	n	0.13	0/2042	0.38	0/2768
1	p	0.13	0/2042	0.39	0/2768
2	1	0.11	0/5077	0.31	1/6907 (0.0%)
2	2	0.11	0/5077	0.31	0/6907
2	3	0.11	0/5077	0.32	1/6907 (0.0%)
2	4	0.11	0/5077	0.31	0/6907
2	5	0.11	0/5077	0.31	0/6907
2	AD	0.11	0/5077	0.30	0/6907
2	AK	0.10	0/5092	0.30	0/6928
2	AL	0.11	0/5092	0.31	0/6928
2	AM	0.10	0/5092	0.29	0/6928
2	AN	0.10	0/5092	0.31	0/6928
2	AO	0.11	0/5092	0.32	0/6928
2	AP	0.11	0/5092	0.30	0/6928
2	B1	0.10	0/5092	0.32	0/6928
2	B2	0.11	0/5092	0.30	0/6928
2	B3	0.10	0/5092	0.31	0/6928
2	B4	0.10	0/5092	0.32	1/6928 (0.0%)
2	B5	0.10	0/5092	0.30	0/6928
2	B6	0.10	0/5092	0.29	0/6928
2	B7	0.10	0/5092	0.30	0/6928
2	Bp	0.11	0/5092	0.31	0/6928
2	Bq	0.10	0/5092	0.30	0/6928
2	Br	0.10	0/5092	0.30	0/6928
2	Bs	0.10	0/5092	0.31	0/6928
2	Bt	0.10	0/5092	0.29	0/6928
2	Bu	0.10	0/5092	0.31	0/6928
2	Bv	0.10	0/5092	0.31	0/6928
2	Bw	0.10	0/5092	0.32	1/6928 (0.0%)
2	Bx	0.10	0/5092	0.32	0/6928

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	By	0.11	0/5092	0.32	0/6928
2	Bz	0.10	0/5092	0.32	1/6928 (0.0%)
3	6	0.12	0/1325	0.37	0/1797
3	7	0.12	0/1325	0.35	0/1797
3	8	0.12	0/1325	0.36	0/1797
3	9	0.13	0/1325	0.37	0/1797
3	AA	0.12	0/1325	0.38	1/1797 (0.1%)
3	AE	0.15	0/1333	0.39	0/1807
3	AF	0.12	0/1333	0.32	0/1807
3	AG	0.13	0/1333	0.31	0/1807
3	AH	0.12	0/1333	0.31	0/1807
3	AI	0.11	0/1333	0.34	0/1807
3	AJ	0.11	0/1333	0.33	0/1807
3	BX	0.11	0/1333	0.33	0/1807
3	BY	0.11	0/1333	0.32	0/1807
3	BZ	0.10	0/1333	0.32	0/1807
3	Ba	0.11	0/1333	0.34	0/1807
3	Bb	0.10	0/1333	0.33	0/1807
3	Bc	0.10	0/1333	0.32	0/1807
3	Bd	0.11	0/1333	0.32	0/1807
3	Be	0.11	0/1333	0.33	0/1807
3	Bf	0.10	0/1333	0.29	0/1807
3	Bg	0.11	0/1333	0.34	0/1807
3	Bh	0.11	0/1333	0.34	0/1807
3	Bi	0.11	0/1333	0.32	0/1807
3	Bj	0.11	0/1333	0.33	0/1807
3	Bk	0.11	0/1333	0.32	0/1807
3	Bl	0.12	0/1333	0.33	0/1807
3	Bm	0.15	0/1333	0.38	1/1807 (0.1%)
3	Bn	0.17	0/1333	0.38	0/1807
3	Bo	0.10	0/1333	0.31	0/1807
3	o	0.13	0/1325	0.36	0/1797
4	A	0.11	0/608	0.20	0/825
4	B	0.10	0/608	0.19	0/825
4	C	0.10	0/608	0.21	0/825
4	D	0.09	0/608	0.20	0/825
4	E	0.09	0/608	0.20	0/825
4	F	0.09	0/608	0.19	0/825
4	G	0.09	0/608	0.18	0/825
4	H	0.11	0/608	0.22	0/825
4	I	0.09	0/608	0.21	0/825
4	J	0.09	0/608	0.20	0/825
4	K	0.10	0/608	0.20	0/825

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	L	0.09	0/608	0.19	0/825
4	M	0.09	0/608	0.19	0/825
4	N	0.08	0/608	0.17	0/825
4	O	0.10	0/608	0.20	0/825
4	P	0.10	0/608	0.19	0/825
4	Q	0.09	0/608	0.18	0/825
4	R	0.10	0/608	0.22	0/825
4	S	0.09	0/608	0.20	0/825
4	T	0.10	0/608	0.20	0/825
4	U	0.10	0/608	0.19	0/825
4	V	0.09	0/608	0.20	0/825
4	W	0.09	0/608	0.20	0/825
4	X	0.09	0/608	0.21	0/825
4	Y	0.09	0/608	0.19	0/825
4	Z	0.09	0/608	0.20	0/825
4	a	0.09	0/608	0.18	0/825
4	b	0.09	0/608	0.19	0/825
4	c	0.10	0/608	0.21	0/825
4	d	0.09	0/608	0.18	0/825
4	e	0.09	0/608	0.19	0/825
4	f	0.10	0/608	0.20	0/825
4	g	0.10	0/608	0.20	0/825
4	h	0.09	0/608	0.19	0/825
4	i	0.09	0/608	0.20	0/825
4	j	0.10	0/608	0.21	0/825
5	A0	0.12	0/4222	0.33	0/5693
5	A1	0.12	0/4222	0.31	0/5693
5	A2	0.11	0/4214	0.33	0/5682
5	A3	0.12	0/4214	0.33	0/5682
5	Av	0.11	0/4214	0.31	0/5682
5	Ax	0.11	0/4214	0.29	0/5682
5	BA	0.11	0/4153	0.31	0/5600
5	BB	0.11	0/4070	0.30	0/5482
5	BD	0.13	0/4214	0.33	1/5682 (0.0%)
5	BF	0.11	0/4214	0.30	0/5682
5	BG	0.11	0/4116	0.32	0/5548
5	BH	0.11	0/4170	0.29	0/5626
6	A4	0.12	0/3493	0.34	0/4731
6	A5	0.10	0/3493	0.31	0/4731
6	A7	0.11	0/3493	0.31	0/4731
6	A8	0.11	0/3377	0.31	0/4573
6	A9	0.11	0/3493	0.32	0/4731
6	AV	0.12	0/3493	0.32	0/4731

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	AW	0.11	0/3493	0.31	0/4731
6	AX	0.11	0/3493	0.30	0/4731
6	AZ	0.12	0/3493	0.34	2/4731 (0.0%)
6	Ac	0.11	0/3493	0.32	0/4731
6	Ad	0.11	0/3493	0.31	0/4731
6	Ae	0.11	0/3493	0.31	0/4731
6	Af	0.11	0/3493	0.31	0/4731
6	Ag	0.12	0/3493	0.31	0/4731
6	Ah	0.11	0/3493	0.29	0/4731
6	Ai	0.10	0/3493	0.31	1/4731 (0.0%)
6	Aj	0.11	0/3493	0.32	0/4731
6	Ak	0.12	0/3493	0.29	0/4731
6	Am	0.12	0/3493	0.33	0/4731
6	An	0.12	0/3377	0.31	0/4573
6	Ao	0.11	0/3357	0.31	0/4546
6	Ap	0.12	0/3377	0.31	0/4573
6	Au	0.11	0/3493	0.31	0/4731
6	Aw	0.12	0/3493	0.32	0/4731
6	Ay	0.11	0/3493	0.30	0/4731
6	Az	0.11	0/3493	0.31	0/4731
6	BI	0.11	0/3493	0.29	0/4731
6	BJ	0.12	0/3357	0.32	0/4546
6	BK	0.11	0/3493	0.31	0/4731
6	BM	0.12	0/3493	0.34	0/4731
7	A6	0.11	0/2496	0.29	0/3383
7	AY	0.12	0/2493	0.32	0/3379
7	Aa	0.12	0/2496	0.33	0/3383
7	Ab	0.11	0/2496	0.31	0/3383
7	Al	0.13	0/2493	0.34	1/3379 (0.0%)
7	Aq	0.12	0/2496	0.32	0/3383
7	Ar	0.12	0/2363	0.30	0/3203
7	As	0.11	0/2496	0.31	0/3383
7	At	0.12	0/2428	0.31	0/3290
7	BC	0.12	0/2496	0.30	0/3383
7	BE	0.12	0/2496	0.31	0/3383
7	BL	0.12	0/2496	0.32	0/3383
8	AB	0.15	0/2287	0.37	0/3109
8	q	0.16	0/2287	0.38	0/3109
8	r	0.15	0/2287	0.37	0/3109
8	s	0.15	0/2287	0.37	0/3109
8	t	0.14	0/2287	0.37	0/3109
8	u	0.15	0/2287	0.38	0/3109
9	AC	0.13	0/1418	0.33	0/1939

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
9	v	0.13	0/1418	0.32	0/1939
9	w	0.13	0/1418	0.32	0/1939
9	x	0.13	0/1418	0.34	0/1939
9	y	0.12	0/1418	0.31	0/1939
9	z	0.12	0/1418	0.31	0/1939
10	AQ	0.09	0/833	0.27	0/1133
10	AR	0.10	0/833	0.29	0/1133
10	AS	0.09	0/833	0.27	0/1133
10	AT	0.10	0/833	0.31	0/1133
10	AU	0.10	0/833	0.28	0/1133
11	BN	0.10	0/651	0.28	0/880
11	BO	0.10	0/651	0.27	0/880
11	BP	0.11	0/651	0.32	0/880
11	BQ	0.10	0/651	0.31	0/880
11	BR	0.10	0/651	0.32	0/880
11	BS	0.10	0/651	0.29	0/880
11	BT	0.11	0/651	0.30	0/880
11	BU	0.11	0/651	0.30	0/880
11	BV	0.11	0/651	0.29	0/880
11	BW	0.10	0/651	0.30	0/880
All	All	0.11	0/443809	0.31	12/602060 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
6	A4	0	1
8	s	0	1
8	u	0	1
All	All	0	3

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AZ	118	ASN	CA-C-N	6.56	133.51	121.70
6	AZ	118	ASN	C-N-CA	6.56	133.51	121.70
2	Bw	482	ASP	N-CA-C	-6.35	107.39	114.62
2	3	482	ASP	N-CA-C	-5.92	107.05	114.56
3	Bm	125	LYS	N-CA-C	-5.51	103.63	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Al	227	VAL	N-CA-C	-5.36	108.28	113.53
2	1	309	ILE	N-CA-C	-5.30	107.55	112.43
6	Ai	118	ASN	N-CA-C	-5.28	106.78	113.43
2	Bz	482	ASP	N-CA-C	-5.27	108.10	114.75
3	AA	25	ILE	N-CA-C	-5.23	107.73	112.96
5	BD	317	SER	N-CA-C	-5.20	108.69	114.62
2	B4	136	ALA	CB-CA-C	-5.04	110.38	117.23

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	A4	254	ILE	Peptide
8	s	142	GLN	Peptide
8	u	72	LEU	Peptide

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	0	1993	0	1903	59	0
1	k	1993	0	1903	59	0
1	l	1993	0	1903	60	0
1	m	1993	0	1903	79	0
1	n	1993	0	1903	61	0
1	p	1993	0	1903	73	0
2	1	4985	0	4900	127	0
2	2	4985	0	4900	117	0
2	3	4985	0	4900	120	0
2	4	4985	0	4900	125	0
2	5	4985	0	4900	118	0
2	AD	4985	0	4900	117	0
2	AK	5000	0	4918	125	0
2	AL	5000	0	4918	126	0
2	AM	5000	0	4918	114	0
2	AN	5000	0	4918	118	0
2	AO	5000	0	4918	124	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	AP	5000	0	4918	129	0
2	B1	5000	0	4918	142	0
2	B2	5000	0	4918	128	0
2	B3	5000	0	4918	134	0
2	B4	5000	0	4918	131	0
2	B5	5000	0	4918	121	0
2	B6	5000	0	4918	143	0
2	B7	5000	0	4918	113	0
2	Bp	5000	0	4918	125	0
2	Bq	5000	0	4918	121	0
2	Br	5000	0	4918	117	0
2	Bs	5000	0	4918	126	0
2	Bt	5000	0	4918	136	0
2	Bu	5000	0	4918	136	0
2	Bv	5000	0	4918	133	0
2	Bw	5000	0	4918	119	0
2	Bx	5000	0	4918	115	0
2	By	5000	0	4918	114	0
2	Bz	5000	0	4918	142	0
3	6	1296	0	1243	42	0
3	7	1296	0	1243	41	0
3	8	1296	0	1243	51	0
3	9	1296	0	1243	48	0
3	AA	1296	0	1243	55	0
3	AE	1304	0	1255	44	0
3	AF	1304	0	1255	50	0
3	AG	1304	0	1255	49	0
3	AH	1304	0	1255	46	0
3	AI	1304	0	1255	45	0
3	AJ	1304	0	1255	45	0
3	BX	1304	0	1255	51	0
3	BY	1304	0	1255	46	0
3	BZ	1304	0	1255	39	0
3	Ba	1304	0	1255	40	0
3	Bb	1304	0	1255	47	0
3	Bc	1304	0	1255	39	0
3	Bd	1304	0	1255	50	0
3	Be	1304	0	1255	44	0
3	Bf	1304	0	1255	44	0
3	Bg	1304	0	1255	52	0
3	Bh	1304	0	1255	55	0
3	Bi	1304	0	1255	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Bj	1304	0	1255	48	0
3	Bk	1304	0	1255	51	0
3	Bl	1304	0	1255	40	0
3	Bm	1304	0	1255	37	0
3	Bn	1304	0	1255	55	0
3	Bo	1304	0	1255	44	0
3	o	1296	0	1243	50	0
4	A	601	0	600	14	0
4	B	601	0	600	7	0
4	C	601	0	600	8	0
4	D	601	0	600	7	0
4	E	601	0	600	5	0
4	F	601	0	600	10	0
4	G	601	0	600	12	0
4	H	601	0	600	15	0
4	I	601	0	600	9	0
4	J	601	0	600	8	0
4	K	601	0	600	15	0
4	L	601	0	600	16	0
4	M	601	0	600	16	0
4	N	601	0	600	7	0
4	O	601	0	600	12	0
4	P	601	0	600	10	0
4	Q	601	0	600	10	0
4	R	601	0	600	11	0
4	S	601	0	600	8	0
4	T	601	0	600	8	0
4	U	601	0	600	13	0
4	V	601	0	600	11	0
4	W	601	0	600	13	0
4	X	601	0	600	10	0
4	Y	601	0	600	8	0
4	Z	601	0	600	10	0
4	a	601	0	600	11	0
4	b	601	0	600	10	0
4	c	601	0	600	9	0
4	d	601	0	600	9	0
4	e	601	0	600	8	0
4	f	601	0	600	12	0
4	g	601	0	600	12	0
4	h	601	0	600	14	0
4	i	601	0	600	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	j	601	0	600	11	0
5	A0	4140	0	4075	101	0
5	A1	4140	0	4076	101	0
5	A2	4132	0	4070	92	0
5	A3	4132	0	4070	130	0
5	Av	4132	0	4070	106	0
5	Ax	4132	0	4070	91	0
5	BA	4074	0	4013	103	0
5	BB	3995	0	3948	119	0
5	BD	4132	0	4071	81	0
5	BF	4132	0	4070	110	0
5	BG	4039	0	3976	108	0
5	BH	4091	0	4018	91	0
6	A4	3425	0	3371	78	0
6	A5	3425	0	3371	93	0
6	A7	3425	0	3371	78	0
6	A8	3311	0	3271	94	0
6	A9	3425	0	3371	98	0
6	AV	3425	0	3371	105	0
6	AW	3425	0	3371	76	0
6	AX	3425	0	3371	80	0
6	AZ	3425	0	3371	87	0
6	Ac	3425	0	3371	79	0
6	Ad	3425	0	3371	68	0
6	Ae	3425	0	3371	87	0
6	Af	3425	0	3371	76	0
6	Ag	3425	0	3371	88	0
6	Ah	3425	0	3371	81	0
6	Ai	3425	0	3371	72	0
6	Aj	3425	0	3371	77	0
6	Ak	3425	0	3371	91	0
6	Am	3425	0	3371	93	0
6	An	3311	0	3271	85	0
6	Ao	3291	0	3253	90	0
6	Ap	3311	0	3271	84	0
6	Au	3425	0	3371	97	0
6	Aw	3425	0	3371	72	0
6	Ay	3425	0	3371	79	0
6	Az	3425	0	3371	79	0
6	BI	3425	0	3371	89	0
6	BJ	3291	0	3253	95	0
6	BK	3425	0	3371	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	BM	3425	0	3371	89	0
7	A6	2438	0	2356	79	0
7	AY	2435	0	2352	79	0
7	Aa	2438	0	2356	67	0
7	Ab	2438	0	2356	70	0
7	Al	2435	0	2352	85	0
7	Aq	2438	0	2356	89	0
7	Ar	2310	0	2245	78	0
7	As	2438	0	2356	65	0
7	At	2371	0	2291	65	0
7	BC	2438	0	2356	85	0
7	BE	2438	0	2356	85	0
7	BL	2438	0	2357	78	0
8	AB	2227	0	2152	70	0
8	q	2227	0	2152	75	0
8	r	2227	0	2152	86	0
8	s	2227	0	2152	75	0
8	t	2227	0	2152	76	0
8	u	2227	0	2152	62	0
9	AC	1383	0	1344	35	0
9	v	1383	0	1344	40	0
9	w	1383	0	1344	31	0
9	x	1383	0	1344	21	0
9	y	1383	0	1344	38	0
9	z	1383	0	1344	32	0
10	AQ	805	0	763	18	0
10	AR	805	0	763	14	0
10	AS	805	0	763	11	0
10	AT	805	0	763	15	0
10	AU	805	0	763	16	0
11	BN	636	0	612	14	0
11	BO	636	0	612	10	0
11	BP	636	0	612	19	0
11	BQ	636	0	612	12	0
11	BR	636	0	612	12	0
11	BS	636	0	612	14	0
11	BT	636	0	612	13	0
11	BU	636	0	612	13	0
11	BV	636	0	612	8	0
11	BW	636	0	612	16	0
All	All	435087	0	426149	9490	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 11.

All (9490) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:25:GLU:HG2	1:l:29:PRO:HD3	1.54	0.90
3:Bk:104:PRO:O	3:Bk:108:LYS:HB2	1.72	0.90
1:m:25:GLU:HG2	1:m:29:PRO:HD3	1.53	0.89
1:n:25:GLU:HG2	1:n:29:PRO:HD3	1.55	0.87
1:k:68:PRO:HA	1:k:75:ASP:HB2	1.57	0.86
1:m:68:PRO:HA	1:m:75:ASP:HB2	1.59	0.84
2:AM:400:ARG:NH1	2:AM:403:CYS:SG	2.50	0.84
2:3:252:LEU:HB3	2:3:336:GLY:HA2	1.58	0.83
2:B4:57:PRO:HB3	2:B4:62:ALA:HA	1.61	0.83
1:n:68:PRO:HA	1:n:75:ASP:HB2	1.58	0.82
6:Ag:101:ARG:HD3	6:Ak:146:PRO:HD3	1.61	0.82
7:Aa:87:ILE:HD13	7:Aa:159:PRO:HG2	1.61	0.82
3:o:5:ASP:O	3:o:7:THR:N	2.13	0.82
1:0:25:GLU:HG2	1:0:29:PRO:HD3	1.62	0.81
2:Bp:256:PRO:HG2	2:Bp:339:THR:H	1.46	0.81
1:k:25:GLU:HG2	1:k:29:PRO:HD3	1.62	0.81
2:AK:400:ARG:NH1	2:AK:403:CYS:SG	2.54	0.80
2:AN:228:GLY:HA2	2:AN:345:SER:HB3	1.62	0.80
3:9:5:ASP:O	3:9:7:THR:N	2.15	0.80
6:A7:110:ASP:OD1	6:A7:110:ASP:N	2.14	0.80
2:Bx:135:ASP:HB3	2:Bx:139:LYS:HB2	1.64	0.79
7:BC:95:ILE:HD11	7:BE:107:PHE:HB3	1.64	0.79
3:BY:64:ARG:HH12	3:Bb:95:GLN:HG2	1.48	0.79
2:Bw:400:ARG:NH1	2:Bw:403:CYS:SG	2.56	0.79
3:AA:5:ASP:O	3:AA:7:THR:N	2.15	0.79
2:AP:400:ARG:NH1	2:AP:403:CYS:SG	2.55	0.79
4:d:48:THR:HG21	4:i:47:PRO:HB2	1.64	0.79
7:AY:138:LEU:HB3	5:BD:273:ILE:HD11	1.65	0.79
6:A8:96:MET:HG2	6:A9:117:MET:HE3	1.64	0.79
2:Bx:400:ARG:NH1	2:Bx:403:CYS:SG	2.56	0.79
5:A1:102:TYR:O	5:BB:408:ARG:NH1	2.16	0.78
6:A9:237:GLU:HB3	6:Au:465:LYS:HB3	1.63	0.78
2:Bq:456:TYR:HB3	2:Bq:504:LYS:HB3	1.65	0.78
4:V:47:PRO:HB2	4:f:48:THR:HG21	1.66	0.78
3:8:5:ASP:O	3:8:7:THR:N	2.16	0.78
1:p:25:GLU:HG2	1:p:29:PRO:HD3	1.66	0.78
2:Bq:256:PRO:HG2	2:Bq:339:THR:H	1.49	0.77
2:Bx:256:PRO:HG2	2:Bx:339:THR:H	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q:210:ARG:HD3	8:q:240:ARG:HG2	1.65	0.77
2:B7:481:THR:HB	2:B7:555:ARG:HH12	1.49	0.77
6:BJ:383:VAL:HG21	6:BJ:425:ILE:HG12	1.66	0.77
6:Au:383:VAL:HG21	6:Au:425:ILE:HG12	1.66	0.77
2:Bp:400:ARG:NH1	2:Bp:403:CYS:SG	2.56	0.77
6:Ak:264:ARG:NH2	6:Ao:152:ALA:O	2.18	0.77
6:A9:241:GLY:HA3	11:BO:43:GLY:HA2	1.65	0.77
7:Al:12:LEU:HD13	7:Al:38:ILE:HD12	1.66	0.77
2:B2:57:PRO:HB3	2:B2:62:ALA:HA	1.66	0.77
6:BM:110:ASP:N	6:BM:110:ASP:OD1	2.17	0.77
3:6:5:ASP:O	3:6:7:THR:N	2.18	0.77
2:Bw:228:GLY:HA2	2:Bw:345:SER:HB3	1.66	0.77
3:AA:17:ARG:HH22	9:y:47:THR:HG21	1.50	0.77
3:Bk:37:LYS:HZ1	3:Bk:74:MET:HG2	1.49	0.77
2:Bq:400:ARG:NH1	2:Bq:403:CYS:SG	2.58	0.77
2:Bs:400:ARG:NH1	2:Bs:403:CYS:SG	2.59	0.77
2:AL:121:VAL:HG22	2:AL:166:ASN:HB3	1.67	0.76
2:B5:400:ARG:NH1	2:B5:403:CYS:SG	2.58	0.76
2:B6:400:ARG:NH1	2:B6:403:CYS:SG	2.56	0.76
3:8:114:ARG:HB3	3:8:126:GLU:HG3	1.67	0.76
5:A1:282:ARG:HA	5:BB:278:ARG:HH22	1.50	0.76
6:A4:131:TYR:HB3	6:A4:250:MET:HG2	1.67	0.76
6:AZ:383:VAL:HG21	6:AZ:425:ILE:HG12	1.67	0.76
2:B1:400:ARG:NH1	2:B1:403:CYS:SG	2.59	0.76
6:A9:114:VAL:HG11	5:Ax:67:PRO:HG3	1.68	0.76
2:B1:44:VAL:HG11	2:B1:50:LEU:HB3	1.66	0.76
1:p:68:PRO:HA	1:p:75:ASP:HB2	1.65	0.76
2:AO:560:LEU:HD21	2:AO:601:ILE:HD11	1.67	0.76
3:o:114:ARG:HG2	3:o:126:GLU:HG3	1.67	0.76
3:Bn:82:ARG:HH12	3:Bn:138:GLY:HA2	1.50	0.76
2:1:617:VAL:HG13	2:1:622:GLU:HB2	1.68	0.76
7:Al:55:LYS:HE3	7:BE:173:MET:HE1	1.68	0.76
5:A1:303:HIS:NE2	7:Aq:161:PHE:O	2.19	0.76
2:AK:228:GLY:HA2	2:AK:345:SER:HB3	1.68	0.76
6:Aj:264:ARG:NH2	6:An:152:ALA:O	2.18	0.76
2:Bp:560:LEU:HD21	2:Bp:601:ILE:HD11	1.67	0.76
6:AV:110:ASP:N	6:AV:110:ASP:OD1	2.19	0.75
6:A7:76:ALA:HB1	6:A8:496:ILE:HG22	1.68	0.75
6:Au:105:ASN:HB2	6:Au:412:VAL:HG23	1.68	0.75
2:Bq:135:ASP:HB3	2:Bq:139:LYS:HB2	1.67	0.75
6:A5:344:ARG:HD2	6:AW:344:ARG:HH21	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BD:158:PHE:HB2	5:BD:236:VAL:HB	1.67	0.75
6:AV:237:GLU:HG2	6:AV:246:PRO:HA	1.69	0.75
5:Av:72:THR:HG23	5:Av:155:ARG:HH21	1.51	0.75
2:AP:493:GLY:HA2	2:Bp:572:LEU:HD23	1.68	0.75
6:BK:322:THR:HG22	6:BK:359:LYS:HG2	1.67	0.75
2:Bx:209:ASP:N	2:Bx:209:ASP:OD1	2.19	0.75
2:AO:378:CYS:HB2	2:AO:410:PRO:HA	1.68	0.75
7:Al:201:THR:O	7:Al:229:ARG:NH2	2.19	0.75
6:Az:241:GLY:HA3	11:BU:43:GLY:HA2	1.68	0.75
1:k:216:ASP:HB3	1:k:219:ALA:HB2	1.69	0.74
2:B3:617:VAL:HG13	2:B3:622:GLU:HB2	1.70	0.74
4:Z:48:THR:HG21	4:e:47:PRO:HB2	1.69	0.74
3:6:114:ARG:HG2	3:6:126:GLU:HG3	1.69	0.74
5:A0:232:LYS:O	5:A0:234:ALA:N	2.20	0.74
5:Ax:214:SER:HB3	5:Ax:217:CYS:HB2	1.69	0.74
6:AX:383:VAL:HG21	6:AX:425:ILE:HG12	1.70	0.74
2:B1:57:PRO:HB3	2:B1:62:ALA:HA	1.69	0.74
2:B3:400:ARG:NH1	2:B3:403:CYS:SG	2.59	0.74
6:A7:131:TYR:HB3	6:A7:250:MET:HG2	1.70	0.74
2:AD:453:ASN:HD21	2:AD:505:LEU:HG	1.53	0.74
2:B2:256:PRO:HG2	2:B2:339:THR:H	1.53	0.74
5:A0:255:HIS:NE2	7:At:130:GLY:O	2.21	0.74
5:A3:232:LYS:O	5:A3:234:ALA:N	2.20	0.74
6:A9:383:VAL:HG21	6:A9:425:ILE:HG12	1.70	0.74
6:An:88:VAL:HG11	6:An:278:LEU:HD21	1.68	0.74
2:B2:32:LYS:HG2	2:B2:350:VAL:HG21	1.70	0.74
2:B7:559:MET:SD	2:B7:563:ASN:ND2	2.61	0.74
5:BA:72:THR:HG23	5:BA:155:ARG:HH21	1.52	0.74
6:BM:383:VAL:HG21	6:BM:425:ILE:HG12	1.69	0.74
5:A0:60:THR:HA	5:A0:64:SER:HB3	1.68	0.74
6:Ac:383:VAL:HG21	6:Ac:425:ILE:HG12	1.68	0.74
6:Ak:110:ASP:OD1	6:Ak:110:ASP:N	2.21	0.74
1:p:216:ASP:HB3	1:p:219:ALA:HB2	1.68	0.74
2:1:488:TRP:O	2:1:552:ASN:ND2	2.21	0.73
2:Br:110:TYR:H	2:Br:138:GLY:HA3	1.52	0.73
7:BL:12:LEU:HD13	7:BL:38:ILE:HD12	1.69	0.73
7:BL:201:THR:O	7:BL:229:ARG:NH2	2.21	0.73
6:Af:452:PRO:HA	6:Af:477:TYR:HA	1.68	0.73
6:AV:76:ALA:HB1	6:AZ:496:ILE:HG12	1.68	0.73
6:Ak:465:LYS:HB3	6:Az:237:GLU:HB3	1.69	0.73
6:Aw:121:THR:HG23	6:BM:79:ILE:HG23	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:92:SER:HB3	2:AP:340:LEU:HB3	1.69	0.73
6:Af:93:PRO:HB2	6:Aj:123:GLN:HB3	1.70	0.73
5:A1:204:GLU:HB2	5:A1:232:LYS:HB2	1.71	0.73
6:A9:237:GLU:HG2	6:A9:246:PRO:HA	1.71	0.73
6:Ak:115:GLN:NE2	6:Ak:444:MET:SD	2.62	0.73
5:BB:161:ILE:HB	5:BB:173:GLU:HB3	1.70	0.73
6:BI:383:VAL:HG21	6:BI:425:ILE:HG12	1.70	0.73
6:A9:154:PHE:O	6:A9:248:ASN:ND2	2.20	0.73
2:AL:453:ASN:HB2	2:AL:506:ALA:HB3	1.71	0.73
8:s:212:THR:HG1	8:s:235:SER:HG	1.32	0.73
7:Aa:117:ILE:HG23	7:Aa:119:GLY:H	1.54	0.73
6:Ac:237:GLU:HB3	6:BI:465:LYS:HB3	1.68	0.73
6:Ai:101:ARG:HD3	6:Am:146:PRO:HD3	1.71	0.73
2:B6:256:PRO:HG2	2:B6:339:THR:H	1.53	0.73
3:Be:28:LEU:HD22	3:Be:84:LYS:HB3	1.69	0.73
6:AX:146:PRO:HD3	6:BK:101:ARG:HD3	1.71	0.72
6:Af:255:ASP:N	6:Af:255:ASP:OD1	2.22	0.72
6:Aj:264:ARG:NH1	6:Aj:477:TYR:OH	2.21	0.72
2:B5:256:PRO:HG2	2:B5:339:THR:H	1.53	0.72
1:l:68:PRO:HA	1:l:75:ASP:HB2	1.70	0.72
2:AN:400:ARG:NH1	2:AN:403:CYS:SG	2.61	0.72
6:Ag:264:ARG:NH2	6:Ak:152:ALA:O	2.21	0.72
6:BM:422:ARG:NH1	6:BM:424:TYR:OH	2.23	0.72
1:p:155:TYR:HB2	1:p:158:PHE:HA	1.70	0.72
6:Ap:358:ASP:OD2	6:BI:384:ASN:ND2	2.22	0.72
3:Bi:19:ASN:OD1	3:Bi:19:ASN:N	2.22	0.72
2:Bt:228:GLY:HA2	2:Bt:345:SER:HB3	1.70	0.72
2:2:368:VAL:HG23	2:2:400:ARG:HH21	1.54	0.72
2:4:488:TRP:O	2:4:552:ASN:ND2	2.22	0.72
6:Ad:299:MET:HA	6:Ad:302:ILE:HD12	1.70	0.72
2:B6:32:LYS:HG2	2:B6:350:VAL:HG21	1.72	0.72
11:BW:5:ARG:HH21	11:BW:33:PRO:HB3	1.54	0.72
2:Bz:566:ARG:HA	2:Bz:569:LYS:HD2	1.71	0.72
6:Aj:383:VAL:HG21	6:Aj:425:ILE:HG12	1.71	0.72
6:An:163:PHE:HB2	6:An:179:THR:HG23	1.72	0.72
7:BL:81:VAL:HG12	7:BL:188:THR:HG22	1.70	0.72
6:BK:106:LEU:HD21	6:BK:300:LEU:HD23	1.69	0.72
6:A7:264:ARG:NH2	6:A8:152:ALA:O	2.23	0.72
5:BA:328:MET:SD	5:BH:282:ARG:NH1	2.62	0.72
3:6:54:MET:O	3:6:55:ASN:ND2	2.22	0.72
7:BE:117:ILE:HG21	7:BE:141:PHE:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A0:79:TYR:OH	5:A0:255:HIS:ND1	2.23	0.72
5:A2:458:LYS:NZ	5:BF:451:ASP:O	2.22	0.72
7:BC:127:ARG:HG2	6:BJ:458:PRO:HG2	1.70	0.72
2:Bt:256:PRO:HG2	2:Bt:339:THR:H	1.55	0.72
2:Bv:379:ALA:HA	2:Bv:411:ARG:HB2	1.72	0.72
6:AW:255:ASP:OD1	6:AW:255:ASP:N	2.20	0.72
2:B4:456:TYR:HB3	2:B4:503:ILE:HG23	1.71	0.72
5:BH:474:GLU:HG3	5:BH:475:PRO:HD3	1.72	0.72
2:Bt:493:GLY:HA2	2:Bu:572:LEU:HD23	1.71	0.72
2:Bz:560:LEU:HD21	2:Bz:601:ILE:HD11	1.72	0.72
6:AX:107:ILE:O	6:AX:303:ASN:ND2	2.22	0.71
7:Aa:104:TYR:O	7:Aa:106:TRP:N	2.22	0.71
6:Aw:383:VAL:HG21	6:Aw:425:ILE:HG12	1.71	0.71
2:AO:135:ASP:HB3	2:AO:139:LYS:HB2	1.72	0.71
2:B7:57:PRO:HB3	2:B7:62:ALA:HA	1.71	0.71
4:X:48:THR:HG21	4:c:47:PRO:HB2	1.71	0.71
4:Y:48:THR:HG21	4:d:47:PRO:HB2	1.73	0.71
6:AZ:79:ILE:HG23	6:Ad:121:THR:HG23	1.71	0.71
6:Au:152:ALA:O	6:BJ:264:ARG:NH2	2.23	0.71
6:BM:241:GLY:HA3	11:BQ:43:GLY:HA2	1.72	0.71
8:t:28:ARG:NH2	8:t:129:ASP:OD2	2.22	0.71
7:Ab:308:VAL:HG12	5:Av:332:GLU:HG2	1.72	0.71
6:Ap:377:ILE:HG23	6:Ap:435:THR:HG23	1.73	0.71
1:k:155:TYR:HB2	1:k:158:PHE:HA	1.73	0.71
8:u:46:LYS:HB3	8:u:51:MET:HG3	1.73	0.71
2:5:488:TRP:O	2:5:552:ASN:ND2	2.23	0.71
6:Ae:496:ILE:HG12	6:Ay:76:ALA:HB1	1.73	0.71
6:BK:237:GLU:HG2	6:BK:246:PRO:HA	1.71	0.71
2:3:471:ALA:HA	2:3:474:ILE:HG12	1.72	0.71
3:9:17:ARG:HH22	9:x:47:THR:HG21	1.56	0.71
2:AO:273:PRO:HB3	2:AO:278:GLN:HB3	1.73	0.71
6:Aj:110:ASP:N	6:Aj:110:ASP:OD1	2.24	0.71
7:BC:199:GLY:O	7:BC:204:TYR:OH	2.08	0.71
3:Bn:113:VAL:HG13	3:Bn:127:ILE:HG23	1.73	0.71
4:M:48:THR:HG21	4:N:47:PRO:HB2	1.71	0.71
6:A8:367:GLN:HB3	6:A8:511:ALA:HB1	1.73	0.71
6:A8:377:ILE:HG23	6:A8:435:THR:HG23	1.72	0.71
6:A9:340:ILE:HG13	6:A9:343:ALA:H	1.56	0.71
2:AM:383:LEU:HD11	2:AM:436:TYR:HD1	1.54	0.71
7:BE:12:LEU:HD13	7:BE:38:ILE:HD12	1.73	0.71
6:AX:79:ILE:HG23	6:Az:121:THR:HB	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ab:70:LYS:NZ	5:Ax:318:THR:O	2.21	0.70
6:AX:131:TYR:HB3	6:AX:250:MET:HG2	1.74	0.70
6:Ac:268:ALA:HB1	6:Ac:290:LEU:HD13	1.72	0.70
6:Au:268:ALA:HB1	6:Au:290:LEU:HD13	1.73	0.70
2:Bu:256:PRO:HG2	2:Bu:339:THR:H	1.56	0.70
1:0:199:LEU:O	1:0:202:ASN:ND2	2.23	0.70
2:Br:166:ASN:N	2:Br:166:ASN:OD1	2.24	0.70
4:E:47:PRO:HB2	4:U:48:THR:HG21	1.72	0.70
5:A0:267:LEU:HD12	5:A0:365:PHE:HD2	1.55	0.70
5:BB:277:THR:HG23	5:BB:278:ARG:HG3	1.73	0.70
3:Bh:113:VAL:HG13	3:Bh:127:ILE:HG23	1.74	0.70
6:Am:131:TYR:HB3	6:Am:250:MET:HG2	1.74	0.70
7:Aq:122:GLY:HA2	7:Aq:126:ASN:HB3	1.72	0.70
2:B3:104:SER:HG	2:B3:183:THR:HG1	1.34	0.70
2:B3:423:VAL:HG11	2:B3:513:GLN:HB3	1.72	0.70
3:Bi:113:VAL:HG13	3:Bi:127:ILE:HG23	1.72	0.70
5:A0:64:SER:HB2	6:BJ:410:LYS:HG2	1.74	0.70
6:A7:268:ALA:HB1	6:A7:290:LEU:HD23	1.72	0.70
2:AK:470:LEU:HD23	2:AK:525:VAL:HG21	1.74	0.70
7:Aq:201:THR:O	7:Aq:229:ARG:NH2	2.24	0.70
7:Aq:264:ALA:HA	7:Aq:267:GLN:HB2	1.73	0.70
5:BH:469:MET:HE3	5:BH:490:ILE:HG23	1.73	0.70
3:BZ:137:VAL:HB	3:BZ:155:VAL:HG13	1.73	0.70
2:Bw:66:MET:HB3	2:Bw:468:VAL:HG11	1.73	0.70
8:r:99:GLN:HE21	8:r:102:ALA:HA	1.57	0.70
6:A4:105:ASN:ND2	6:A4:409:THR:O	2.25	0.70
6:AW:278:LEU:HD12	6:AW:286:ALA:HB2	1.73	0.70
5:Av:6:LEU:O	5:Av:8:LEU:N	2.25	0.70
3:Bj:28:LEU:HD22	3:Bj:84:LYS:HB3	1.74	0.70
2:3:617:VAL:HG13	2:3:622:GLU:HB2	1.73	0.70
6:A9:235:LEU:O	6:A9:245:ASN:ND2	2.24	0.70
6:Af:345:TRP:CG	6:Af:346:ALA:H	2.09	0.70
6:Ao:377:ILE:HG23	6:Ao:435:THR:HG23	1.72	0.70
2:B4:116:ILE:HG12	2:B4:171:ILE:HG12	1.74	0.70
3:Bk:63:ASP:HB3	3:Bo:147:ASN:HB3	1.74	0.70
3:7:54:MET:O	3:7:55:ASN:ND2	2.23	0.70
2:AM:47:GLU:OE2	2:AM:73:GLN:NE2	2.25	0.70
6:Am:115:GLN:NE2	6:Am:444:MET:SD	2.65	0.70
2:B3:256:PRO:HG2	2:B3:339:THR:H	1.57	0.70
11:BW:11:LYS:HG3	11:BW:27:GLU:HG2	1.73	0.70
2:Bp:454:TYR:HB3	2:Bp:467:TRP:HD1	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:118:VAL:HB	2:Bw:126:GLU:HB3	1.74	0.70
1:m:216:ASP:HB3	1:m:219:ALA:HB2	1.72	0.70
6:A4:503:ILE:HG13	6:A4:507:LEU:HD12	1.73	0.70
7:At:88:LEU:HD23	7:At:183:ILE:HG22	1.73	0.70
2:Bw:193:ILE:HG12	2:Bw:205:MET:HE3	1.74	0.70
2:Bw:488:TRP:O	2:Bw:552:ASN:ND2	2.25	0.70
6:Af:479:ILE:HD11	6:Af:501:PRO:HG3	1.72	0.69
4:G:48:THR:HG21	4:R:47:PRO:HB2	1.74	0.69
3:7:5:ASP:O	3:7:7:THR:N	2.24	0.69
3:8:7:THR:HG23	3:8:14:ASP:H	1.57	0.69
2:B5:490:SER:O	2:B5:496:ARG:NH1	2.25	0.69
2:Bz:400:ARG:NH1	2:Bz:403:CYS:SG	2.63	0.69
2:AL:256:PRO:HG2	2:AL:339:THR:H	1.56	0.69
6:AV:482:ASN:ND2	6:AV:483:PRO:O	2.24	0.69
6:Ak:264:ARG:NH1	6:Ak:477:TYR:OH	2.25	0.69
2:B1:128:GLU:HB2	2:B1:146:PRO:HG2	1.75	0.69
2:B3:493:GLY:HA2	2:B4:572:LEU:HD23	1.73	0.69
2:Bt:400:ARG:NH1	2:Bt:403:CYS:SG	2.65	0.69
3:9:7:THR:HG23	3:9:14:ASP:H	1.57	0.69
2:AN:118:VAL:HB	2:AN:126:GLU:HB3	1.72	0.69
6:AZ:131:TYR:HB3	6:AZ:250:MET:HG2	1.73	0.69
7:Al:81:VAL:HG12	7:Al:188:THR:HG22	1.73	0.69
3:Bn:28:LEU:HD22	3:Bn:84:LYS:HB3	1.73	0.69
2:Bq:40:GLN:H	2:Bq:81:VAL:HG23	1.58	0.69
3:9:52:GLY:HA2	3:9:57:LYS:HA	1.75	0.69
3:AJ:113:VAL:HG13	3:AJ:127:ILE:HG23	1.73	0.69
7:AY:309:GLY:O	5:BD:309:LYS:NZ	2.25	0.69
6:Ag:79:ILE:HG23	6:Ak:121:THR:HG23	1.74	0.69
6:Ag:110:ASP:N	6:Ag:110:ASP:OD1	2.26	0.69
7:Ar:87:ILE:HG21	7:Ar:159:PRO:HG2	1.74	0.69
5:Av:66:GLU:O	5:Av:70:LYS:NZ	2.25	0.69
5:Ax:52:SER:HB3	5:Ax:55:ASN:HB3	1.72	0.69
7:BL:163:PHE:HB2	7:BL:170:LEU:HD12	1.74	0.69
2:Bp:57:PRO:HB3	2:Bp:62:ALA:HA	1.73	0.69
2:Bz:28:ALA:HB2	2:Bz:370:VAL:HG21	1.75	0.69
3:6:7:THR:HG23	3:6:14:ASP:H	1.58	0.69
5:A3:485:THR:OG1	5:BG:501:GLU:OE1	2.11	0.69
7:BC:12:LEU:HD13	7:BC:38:ILE:HD12	1.73	0.69
6:BK:263:SER:HB3	6:BK:476:ARG:HG2	1.74	0.69
3:Bf:113:VAL:HG13	3:Bf:127:ILE:HG23	1.74	0.69
8:s:230:PHE:HB3	8:s:258:ASN:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A8:417:LEU:HB2	6:A8:421:TYR:HB2	1.73	0.69
2:AO:455:LYS:HD2	2:AO:457:GLN:HB2	1.73	0.69
10:AT:348:TYR:HB2	10:AT:351:VAL:HG12	1.74	0.69
6:Ag:318:LYS:NZ	6:Ag:327:SER:OG	2.23	0.69
6:Ay:343:ALA:HB1	6:Ay:348:GLU:HG3	1.75	0.69
2:B2:582:SER:O	2:B2:586:THR:OG1	2.10	0.69
2:B6:57:PRO:HA	2:B6:61:THR:HB	1.75	0.69
3:Bd:113:VAL:HG13	3:Bd:127:ILE:HG23	1.75	0.69
3:Bk:113:VAL:HG13	3:Bk:127:ILE:HG23	1.74	0.69
2:Br:135:ASP:HB3	2:Br:139:LYS:HB2	1.75	0.69
2:Br:379:ALA:HA	2:Br:411:ARG:HB2	1.73	0.69
4:d:10:PHE:O	4:d:54:ASN:ND2	2.23	0.69
1:k:224:ILE:HG13	1:l:71:ILE:HD12	1.73	0.69
2:4:617:VAL:HG13	2:4:622:GLU:HB2	1.73	0.69
6:Ak:383:VAL:HG21	6:Ak:425:ILE:HG12	1.74	0.69
6:Ap:87:ALA:H	7:BE:93:GLY:HA2	1.58	0.69
2:Bv:125:ILE:HD12	2:Bv:153:LYS:HG2	1.74	0.69
8:u:211:THR:HG22	8:u:236:GLU:HB2	1.75	0.69
1:0:68:PRO:HA	1:0:75:ASP:HB2	1.75	0.69
6:Ac:340:ILE:HG13	6:Ac:343:ALA:H	1.57	0.69
6:Ad:336:ASP:HB3	6:Ad:339:ASP:HB2	1.73	0.69
2:B4:256:PRO:HG2	2:B4:339:THR:H	1.58	0.69
5:BG:290:GLY:O	5:BG:291:ASN:ND2	2.23	0.69
2:By:456:TYR:HB3	2:By:504:LYS:HB3	1.72	0.69
5:A3:137:LEU:HG	5:A3:174:LEU:HD12	1.75	0.68
2:AM:256:PRO:HG2	2:AM:339:THR:H	1.57	0.68
6:AX:109:PHE:HE1	6:AX:306:VAL:HG21	1.58	0.68
7:Aa:12:LEU:HD13	7:Aa:38:ILE:HD12	1.74	0.68
6:Af:383:VAL:HG21	6:Af:425:ILE:HG12	1.73	0.68
7:Ar:12:LEU:HD13	7:Ar:38:ILE:HD12	1.73	0.68
3:BX:55:ASN:OD1	3:Bb:19:ASN:ND2	2.26	0.68
2:Bt:617:VAL:HG22	2:Bt:622:GLU:HB2	1.74	0.68
8:s:28:ARG:NH2	8:s:129:ASP:OD2	2.26	0.68
2:5:538:ASP:HB2	2:5:551:ILE:HB	1.75	0.68
6:Af:278:LEU:HD12	6:Af:286:ALA:HB2	1.75	0.68
5:BA:392:SER:OG	5:BH:458:LYS:NZ	2.26	0.68
5:BF:72:THR:OG1	5:BF:155:ARG:NH2	2.26	0.68
1:l:63:ARG:H	1:l:136:ASP:HB3	1.58	0.68
2:AM:331:PRO:HB2	2:AM:334:PHE:HB2	1.74	0.68
6:Ag:381:ASN:HB3	6:Ag:521:ILE:HG21	1.74	0.68
2:B4:220:PRO:HG2	2:B4:338:LEU:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BJ:387:ALA:HB2	6:BJ:404:PHE:HB2	1.76	0.68
3:Bk:54:MET:HE2	3:Bl:1:MET:HE1	1.74	0.68
1:m:243:LYS:HB3	8:s:4:TYR:HB3	1.74	0.68
6:AV:452:PRO:HA	6:AV:477:TYR:HA	1.75	0.68
5:Ax:379:ARG:NH1	5:Ax:400:GLU:OE2	2.27	0.68
6:BJ:481:ILE:HD11	6:BJ:501:PRO:HB3	1.74	0.68
6:BK:149:GLY:H	6:BK:186:GLY:HA2	1.57	0.68
6:Ai:452:PRO:HA	6:Ai:477:TYR:HA	1.74	0.68
3:BY:113:VAL:HG13	3:BY:127:ILE:HG23	1.75	0.68
2:Bz:455:LYS:HE3	2:Bz:502:VAL:HG22	1.75	0.68
4:P:48:THR:HG21	4:U:47:PRO:HB2	1.74	0.68
6:A4:260:GLU:OE2	6:A9:72:HIS:ND1	2.27	0.68
6:Ap:383:VAL:HG21	6:Ap:425:ILE:HG12	1.76	0.68
5:Av:232:LYS:O	5:Av:234:ALA:N	2.26	0.68
6:Az:237:GLU:HG2	6:Az:246:PRO:HA	1.74	0.68
2:B7:211:GLN:O	2:B7:329:ASN:ND2	2.27	0.68
2:B7:239:VAL:HG23	2:B7:280:ALA:HB3	1.76	0.68
2:Bw:645:THR:OG1	2:Bx:629:ILE:O	2.12	0.68
4:X:27:ASN:ND2	4:h:35:ASP:OD1	2.27	0.68
2:2:647:THR:OG1	2:AP:633:ARG:NH1	2.26	0.68
6:A4:254:ILE:HG12	6:Aj:89:THR:H	1.58	0.68
6:Ay:383:VAL:HG21	6:Ay:425:ILE:HG12	1.74	0.68
2:B6:206:THR:HA	2:B6:211:GLN:HE21	1.59	0.68
2:Bt:254:ILE:HD11	2:Bt:261:ARG:HB2	1.76	0.68
5:A3:183:GLN:HB3	5:A3:207:ILE:HG23	1.76	0.68
5:A3:232:LYS:HE2	5:A3:233:ALA:H	1.59	0.68
6:A7:152:ALA:O	6:AW:264:ARG:NH2	2.27	0.68
7:Al:2:SER:N	4:R:30:GLU:OE2	2.26	0.68
7:Ar:69:TYR:O	5:BA:320:LYS:NZ	2.26	0.68
2:Br:455:LYS:NZ	2:Br:473:ASP:OD2	2.27	0.68
8:t:230:PHE:HB3	8:t:258:ASN:HA	1.76	0.68
6:AV:336:ASP:HB3	6:AV:339:ASP:HB2	1.75	0.68
2:B1:118:VAL:HB	2:B1:126:GLU:HB3	1.76	0.68
7:BC:269:MET:SD	1:p:50:SER:OG	2.51	0.68
6:BI:336:ASP:HB3	6:BI:339:ASP:HB2	1.76	0.68
2:Bw:256:PRO:HG2	2:Bw:339:THR:H	1.59	0.68
2:Bx:490:SER:O	2:Bx:496:ARG:NH1	2.26	0.68
2:3:310:TYR:O	2:3:314:PHE:HB2	1.93	0.68
2:3:488:TRP:O	2:3:552:ASN:ND2	2.26	0.68
6:A7:79:ILE:HG23	6:A8:121:THR:HB	1.76	0.68
8:AB:212:THR:HG1	8:AB:235:SER:HG	1.36	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AW:381:ASN:HB3	6:AW:521:ILE:HG21	1.74	0.68
7:Ab:12:LEU:HD21	7:Ab:248:LYS:HG2	1.75	0.68
6:Ak:452:PRO:HA	6:Ak:477:TYR:HA	1.75	0.68
2:B7:110:TYR:HE2	2:B7:171:ILE:HG21	1.59	0.68
5:BA:158:PHE:HB2	5:BA:236:VAL:HB	1.76	0.68
3:Bo:72:THR:HG22	3:Bo:154:GLU:HG3	1.75	0.68
2:3:490:SER:O	2:3:496:ARG:NH1	2.26	0.67
2:4:490:SER:O	2:4:496:ARG:NH1	2.27	0.67
6:AV:268:ALA:HB1	6:AV:290:LEU:HD13	1.74	0.67
6:An:91:ILE:HG22	6:An:92:GLY:H	1.58	0.67
6:An:264:ARG:NH2	6:BK:152:ALA:O	2.28	0.67
6:An:383:VAL:HG21	6:An:425:ILE:HG12	1.76	0.67
3:Bh:40:ALA:H	3:Bh:69:TRP:HE1	1.41	0.67
2:Bs:490:SER:O	2:Bs:496:ARG:NH1	2.26	0.67
2:Bw:135:ASP:HB3	2:Bw:139:LYS:HB2	1.76	0.67
4:e:48:THR:HG21	4:j:47:PRO:HB2	1.74	0.67
2:1:639:THR:HB	2:AO:624:VAL:HG12	1.75	0.67
6:A5:279:ARG:NH2	6:A5:285:ASP:OD1	2.27	0.67
2:AL:559:MET:SD	2:AL:563:ASN:ND2	2.66	0.67
2:AN:488:TRP:O	2:AN:552:ASN:ND2	2.28	0.67
6:AX:66:ALA:N	6:Af:240:ASN:OD1	2.28	0.67
5:Av:376:PRO:HB3	5:Av:399:ASP:HB2	1.75	0.67
2:B3:220:PRO:HG2	2:B3:338:LEU:HD11	1.75	0.67
2:Bu:312:ASP:OD1	2:Bu:312:ASP:N	2.26	0.67
2:Bx:521:ALA:HA	2:Bx:539:LYS:HE3	1.75	0.67
2:Bx:617:VAL:HG22	2:Bx:622:GLU:HB2	1.76	0.67
2:AN:135:ASP:HB3	2:AN:139:LYS:HB2	1.76	0.67
6:AZ:131:TYR:HE1	6:AZ:141:LYS:HB2	1.57	0.67
6:Ai:383:VAL:HG21	6:Ai:425:ILE:HG12	1.76	0.67
6:Aj:151:ASP:HB3	6:Aj:154:PHE:HB2	1.77	0.67
6:Au:235:LEU:O	6:Au:245:ASN:ND2	2.27	0.67
11:BO:64:GLN:O	11:BO:66:THR:N	2.27	0.67
2:Bu:40:GLN:H	2:Bu:81:VAL:HG23	1.58	0.67
1:m:155:TYR:HB2	1:m:158:PHE:HA	1.75	0.67
5:A2:64:SER:HB3	5:A2:67:PRO:HG2	1.77	0.67
6:A7:264:ARG:NH1	6:A7:477:TYR:OH	2.28	0.67
2:AP:490:SER:O	2:AP:496:ARG:NH1	2.25	0.67
7:AY:18:ARG:HA	7:AY:22:ALA:HA	1.75	0.67
6:Af:101:ARG:HD3	6:Aj:146:PRO:HD3	1.75	0.67
6:BK:198:ILE:HA	6:BK:215:GLN:HE22	1.59	0.67
2:Bt:57:PRO:HB2	2:Bt:62:ALA:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s:215:ASP:N	8:s:215:ASP:OD1	2.28	0.67
6:Ap:432:ASP:HB3	6:Ap:518:VAL:HG23	1.76	0.67
2:B6:51:VAL:HG22	2:B6:65:PHE:HZ	1.57	0.67
2:B6:642:PHE:HB2	2:Bq:12:GLU:HA	1.75	0.67
1:l:155:TYR:HB2	1:l:158:PHE:HA	1.76	0.67
2:2:563:ASN:ND2	2:2:591:TYR:OH	2.27	0.67
5:A1:315:ASP:OD1	7:As:91:ASN:ND2	2.26	0.67
6:A5:278:LEU:HD12	6:A5:286:ALA:HB2	1.76	0.67
6:A5:432:ASP:HB3	6:A5:518:VAL:HG23	1.76	0.67
2:AK:110:TYR:H	2:AK:138:GLY:HA3	1.59	0.67
6:AV:459:LEU:HD11	6:AV:474:LYS:HG2	1.76	0.67
7:Ab:120:GLY:HA3	5:BA:259:LYS:HB2	1.76	0.67
5:BA:283:ARG:NH1	5:BA:334:TYR:OH	2.28	0.67
3:Bn:114:ARG:HG2	3:Bn:126:GLU:HG3	1.76	0.67
3:7:96:GLY:O	3:o:56:ARG:NH2	2.27	0.67
5:A1:458:LYS:NZ	5:BD:451:ASP:O	2.25	0.67
2:AN:66:MET:HG2	2:AN:468:VAL:HG21	1.76	0.67
6:AV:235:LEU:O	6:AV:245:ASN:ND2	2.28	0.67
6:Ai:131:TYR:HD2	6:Ai:250:MET:HE3	1.60	0.67
3:o:17:ARG:HH22	9:z:47:THR:HG21	1.58	0.67
2:AK:331:PRO:HB2	2:AK:334:PHE:HB2	1.77	0.67
6:Ae:346:ALA:HB2	6:Ai:341:ARG:HD3	1.77	0.67
5:BB:129:GLU:OE1	5:BB:425:ASN:ND2	2.28	0.67
2:Bs:455:LYS:HD2	2:Bs:457:GLN:HB2	1.77	0.67
3:9:16:ALA:HB2	3:AA:77:GLU:HA	1.77	0.67
5:A3:216:ALA:O	5:BF:248:LYS:NZ	2.28	0.67
6:Ae:380:ARG:HH21	6:Ai:366:ARG:HD2	1.60	0.67
6:Ao:383:VAL:HG21	6:Ao:425:ILE:HG12	1.76	0.67
2:B2:645:THR:OG1	2:B3:629:ILE:O	2.13	0.67
5:BF:184:TYR:OH	5:BF:204:GLU:OE1	2.13	0.67
5:BF:366:ARG:HE	5:BF:380:ILE:HD11	1.58	0.67
11:BW:38:VAL:HG11	11:BW:69:ILE:HG12	1.76	0.67
3:Ba:54:MET:HE3	3:Be:20:LEU:HA	1.76	0.67
3:Bn:137:VAL:HB	3:Bn:155:VAL:HG13	1.77	0.67
2:Bx:140:ILE:O	2:Bx:141:LYS:NZ	2.27	0.67
4:F:23:SER:HB3	4:F:46:ARG:HE	1.60	0.67
3:AG:64:ARG:HH12	3:AH:95:GLN:HG2	1.60	0.67
6:Ac:278:LEU:HD12	6:Ac:286:ALA:HB2	1.76	0.67
6:Af:264:ARG:NH2	6:Aj:152:ALA:O	2.28	0.67
6:Am:383:VAL:HG21	6:Am:425:ILE:HG12	1.77	0.67
6:Am:515:ARG:NH2	6:Am:517:TYR:OH	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:96:ALA:HB2	2:B7:191:SER:HA	1.77	0.67
7:BE:90:THR:O	7:BE:94:SER:OG	2.11	0.67
5:A3:309:LYS:NZ	7:Al:309:GLY:O	2.27	0.66
5:A3:397:THR:HG23	5:A3:400:GLU:HB2	1.76	0.66
2:AD:413:THR:HG23	2:AD:414:VAL:HG23	1.77	0.66
3:AF:113:VAL:HG13	3:AF:127:ILE:HG23	1.76	0.66
5:Ax:94:GLU:HG3	5:Ax:379:ARG:HH21	1.60	0.66
3:Bd:82:ARG:HH12	3:Bd:138:GLY:HA2	1.60	0.66
2:Bv:235:GLU:OE2	2:Bv:261:ARG:NH2	2.27	0.66
4:W:27:ASN:ND2	4:g:35:ASP:OD1	2.29	0.66
2:3:605:ARG:HG2	2:3:607:VAL:HG23	1.78	0.66
2:AN:131:ILE:HG12	2:AN:143:ILE:HG22	1.76	0.66
6:Ao:90:GLN:OE1	6:BM:256:LYS:NZ	2.28	0.66
7:At:138:LEU:HB3	5:BH:273:ILE:HD11	1.77	0.66
5:BH:290:GLY:O	5:BH:291:ASN:ND2	2.28	0.66
2:2:237:GLU:OE1	2:2:284:ARG:NH1	2.28	0.66
2:AD:488:TRP:O	2:AD:552:ASN:ND2	2.28	0.66
2:AP:456:TYR:HB3	2:AP:504:LYS:HB3	1.77	0.66
7:Aq:91:ASN:HB2	7:Aq:94:SER:HB3	1.77	0.66
7:At:12:LEU:HD13	7:At:38:ILE:HD12	1.78	0.66
5:Av:483:HIS:HB3	5:BB:508:GLU:HG2	1.77	0.66
2:Bu:560:LEU:HD21	2:Bu:601:ILE:HD11	1.78	0.66
8:r:212:THR:OG1	8:r:235:SER:OG	2.13	0.66
2:3:66:MET:HG2	2:3:468:VAL:HG21	1.76	0.66
5:A0:376:PRO:HB3	5:A0:399:ASP:HB2	1.77	0.66
7:AY:111:LEU:HB2	6:Ao:272:ILE:HD11	1.77	0.66
6:Af:100:ARG:NH1	6:Af:289:GLU:OE2	2.28	0.66
2:B6:32:LYS:HD2	2:B6:355:LEU:HD21	1.77	0.66
5:A0:72:THR:HG23	5:A0:155:ARG:HH21	1.60	0.66
2:AL:116:ILE:HD11	2:AL:131:ILE:HG13	1.77	0.66
6:Ad:380:ARG:NH2	6:Ah:363:GLU:OE1	2.28	0.66
5:BG:72:THR:OG1	5:BG:155:ARG:NH2	2.28	0.66
3:BX:41:LEU:HG	3:BX:127:ILE:HD13	1.78	0.66
3:BZ:113:VAL:HG13	3:BZ:127:ILE:HG23	1.77	0.66
2:Bq:488:TRP:O	2:Bq:552:ASN:ND2	2.29	0.66
9:y:19:VAL:HG21	9:y:37:VAL:HG21	1.75	0.66
5:A0:35:LYS:O	5:BH:176:ARG:NH2	2.29	0.66
2:AO:35:TRP:HB2	2:AO:230:LEU:HD12	1.75	0.66
7:Aa:143:GLN:OE1	5:Ax:263:GLN:NE2	2.29	0.66
5:Av:377:LEU:HD23	5:BB:381:PRO:HB2	1.76	0.66
6:BK:154:PHE:O	6:BK:248:ASN:ND2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:166:ASN:OD1	2:Bt:166:ASN:N	2.22	0.66
2:By:490:SER:O	2:By:496:ARG:NH1	2.27	0.66
5:A0:160:LYS:NZ	5:A0:233:ALA:O	2.28	0.66
8:AB:238:VAL:HG22	8:AB:239:PRO:HD2	1.76	0.66
8:AB:240:ARG:NH2	2:AD:620:ARG:O	2.29	0.66
2:AP:126:GLU:HA	2:AP:149:LYS:HD2	1.77	0.66
7:Aa:265:ARG:NH1	1:k:49:GLU:OE2	2.29	0.66
6:An:90:GLN:HG2	6:An:281:VAL:HG21	1.78	0.66
6:Au:110:ASP:N	6:Au:110:ASP:OD1	2.29	0.66
6:BI:387:ALA:HB2	6:BI:404:PHE:HB2	1.76	0.66
3:Bm:40:ALA:O	3:Bm:69:TRP:NE1	2.28	0.66
2:Bq:34:GLN:NE2	2:Bq:58:THR:OG1	2.29	0.66
8:u:28:ARG:NH2	8:u:129:ASP:OD2	2.28	0.66
8:AB:46:LYS:HB3	8:AB:51:MET:HG3	1.75	0.66
3:AE:22:GLN:NE2	3:AJ:1:MET:SD	2.68	0.66
2:AM:135:ASP:HB3	2:AM:139:LYS:HB2	1.77	0.66
6:Ah:131:TYR:HD2	6:Ah:250:MET:HE3	1.61	0.66
6:Au:117:MET:HB2	6:Au:453:TYR:HB2	1.77	0.66
6:Au:237:GLU:HG2	6:Au:246:PRO:HA	1.78	0.66
3:Bc:113:VAL:HG13	3:Bc:127:ILE:HG23	1.77	0.66
2:Br:90:LYS:NZ	2:Br:190:ASP:OD1	2.29	0.66
2:Bu:518:TYR:OH	2:Bu:550:ARG:NH1	2.29	0.66
4:T:7:ASP:N	4:T:7:ASP:OD1	2.29	0.66
1:l:231:TYR:OH	8:s:15:THR:OG1	2.14	0.66
1:0:155:TYR:HB2	1:0:158:PHE:HA	1.77	0.66
6:A5:456:LEU:H	6:A5:475:THR:HG22	1.61	0.66
6:AV:152:ALA:O	6:Ap:264:ARG:NH2	2.29	0.66
6:Ac:279:ARG:NH2	6:Ac:285:ASP:OD1	2.26	0.66
6:Af:235:LEU:O	6:Af:245:ASN:ND2	2.29	0.66
6:Ag:115:GLN:NE2	6:Ag:444:MET:SD	2.69	0.66
6:Ap:264:ARG:NH1	6:Ap:477:TYR:OH	2.29	0.66
3:Bo:137:VAL:HB	3:Bo:155:VAL:HG13	1.77	0.66
5:A3:448:PHE:O	5:A3:450:ARG:NH1	2.29	0.66
6:A9:465:LYS:HB3	6:BK:237:GLU:HB3	1.78	0.66
8:AB:144:HIS:HB2	8:AB:164:LYS:HB3	1.78	0.66
7:AY:175:ASN:ND2	5:BD:323:ASN:O	2.29	0.66
7:Aa:161:PHE:HA	7:Aa:171:LYS:O	1.96	0.66
7:Aq:303:PRO:HG3	5:BD:289:THR:HG22	1.78	0.66
6:BM:237:GLU:HG2	6:BM:246:PRO:HA	1.78	0.66
2:Bt:66:MET:O	2:Bt:70:ASN:ND2	2.28	0.66
4:Y:27:ASN:ND2	4:i:35:ASP:OD1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:216:ASP:HB3	1:l:219:ALA:HB2	1.78	0.66
8:r:155:ASN:O	8:r:157:ILE:N	2.28	0.66
2:5:498:GLN:HG2	2:5:534:VAL:HG12	1.78	0.65
5:A3:281:ASP:O	5:BF:278:ARG:NH2	2.28	0.65
6:A9:270:TYR:HA	6:Aj:67:GLU:HB2	1.78	0.65
2:AK:117:THR:HG23	2:AK:127:THR:HG22	1.76	0.65
2:AL:237:GLU:OE1	2:AL:284:ARG:NH1	2.30	0.65
2:AN:57:PRO:HB3	2:AN:62:ALA:HA	1.78	0.65
6:Ag:452:PRO:HA	6:Ag:477:TYR:HA	1.76	0.65
2:B7:117:THR:HG23	2:B7:127:THR:HG22	1.78	0.65
2:B7:129:GLY:HA3	2:B7:145:ILE:HD13	1.77	0.65
4:Y:47:PRO:HB2	4:i:48:THR:HG21	1.77	0.65
2:3:191:SER:HB3	2:3:342:GLY:HA3	1.78	0.65
2:4:571:ARG:NH2	2:4:587:GLU:OE1	2.29	0.65
2:B1:592:LEU:HD23	2:B1:604:TYR:HB2	1.77	0.65
2:B2:453:ASN:HB2	2:B2:506:ALA:HB3	1.77	0.65
2:Bt:481:THR:HG23	2:Bt:496:ARG:HD2	1.78	0.65
2:Bt:488:TRP:O	2:Bt:552:ASN:ND2	2.29	0.65
2:Bv:566:ARG:HA	2:Bv:569:LYS:HD2	1.77	0.65
4:K:9:PRO:HD3	4:K:57:VAL:HG21	1.78	0.65
3:o:54:MET:O	3:o:55:ASN:ND2	2.29	0.65
1:0:127:VAL:O	1:0:128:ASN:ND2	2.29	0.65
2:3:455:LYS:NZ	2:3:473:ASP:OD2	2.29	0.65
7:A6:138:LEU:HB3	5:BF:273:ILE:HD11	1.78	0.65
3:AE:72:THR:HG22	3:AE:154:GLU:HG3	1.78	0.65
6:Af:264:ARG:NH1	6:Af:305:GLU:OE1	2.29	0.65
6:Ah:264:ARG:NH2	6:BI:152:ALA:O	2.29	0.65
7:At:125:CYS:SG	7:At:126:ASN:N	2.69	0.65
6:Ay:131:TYR:HB3	6:Ay:250:MET:HG2	1.78	0.65
2:B7:642:PHE:HB2	2:Br:12:GLU:HG2	1.77	0.65
8:s:108:GLN:HB2	8:s:202:VAL:HG12	1.78	0.65
6:A7:71:ASP:OD1	6:A7:72:HIS:N	2.30	0.65
6:Am:235:LEU:O	6:Am:245:ASN:ND2	2.30	0.65
6:Ap:268:ALA:HB1	6:Ap:290:LEU:HD13	1.77	0.65
2:B1:220:PRO:HG2	2:B1:338:LEU:HD11	1.77	0.65
5:BD:290:GLY:O	5:BD:291:ASN:ND2	2.28	0.65
11:BQ:11:LYS:HG3	11:BQ:27:GLU:HG2	1.77	0.65
2:Bv:375:ALA:HB3	2:Bv:407:CYS:HA	1.79	0.65
4:H:10:PHE:HB3	4:H:22:ILE:HG12	1.78	0.65
1:m:231:TYR:HH	8:t:15:THR:HG1	1.42	0.65
3:o:52:GLY:HA2	3:o:57:LYS:HA	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q:85:ASN:ND2	8:q:195:ASN:OD1	2.29	0.65
9:v:19:VAL:HG21	9:v:37:VAL:HG21	1.78	0.65
2:3:252:LEU:HG	2:3:263:SER:HB2	1.78	0.65
5:A1:263:GLN:NE2	7:AY:143:GLN:OE1	2.29	0.65
3:AE:31:ASN:OD1	3:AE:31:ASN:N	2.29	0.65
2:Bz:521:ALA:HB1	2:Bz:541:ALA:HA	1.78	0.65
8:q:212:THR:HG1	8:q:235:SER:HG	1.40	0.65
2:2:228:GLY:HA2	2:2:345:SER:HB3	1.79	0.65
2:3:430:ARG:HG3	2:3:522:ILE:HD11	1.78	0.65
6:A9:181:PHE:HD1	6:A9:187:THR:HB	1.62	0.65
10:AS:345:MET:HE3	10:AS:364:LYS:HG3	1.79	0.65
6:AX:493:ALA:O	6:AX:497:GLN:NE2	2.30	0.65
6:Ag:264:ARG:NH1	6:Ag:477:TYR:OH	2.30	0.65
6:Ak:449:TYR:OH	6:Ak:482:ASN:ND2	2.25	0.65
7:As:12:LEU:HD13	7:As:38:ILE:HD12	1.77	0.65
4:B:47:PRO:HB2	4:R:48:THR:HG21	1.76	0.65
7:BE:309:GLY:O	5:BG:309:LYS:NZ	2.29	0.65
3:Bj:19:ASN:OD1	3:Bj:19:ASN:N	2.27	0.65
2:Bt:110:TYR:H	2:Bt:138:GLY:HA3	1.61	0.65
2:Bv:645:THR:OG1	2:Bw:629:ILE:O	2.14	0.65
9:x:15:THR:OG1	9:x:16:ASN:N	2.29	0.65
2:4:563:ASN:ND2	2:4:591:TYR:OH	2.30	0.65
7:AY:192:ILE:HG12	7:AY:222:PRO:HB2	1.79	0.65
6:Ah:264:ARG:NH1	6:Ah:477:TYR:OH	2.30	0.65
5:BD:455:ALA:HA	5:BD:458:LYS:HD3	1.77	0.65
6:BK:452:PRO:HA	6:BK:477:TYR:HA	1.79	0.65
2:Br:264:THR:O	2:Br:266:LYS:N	2.30	0.65
8:q:142:GLN:O	8:q:144:HIS:N	2.30	0.65
2:5:202:GLU:HA	2:5:205:MET:HG2	1.79	0.65
5:A2:158:PHE:HB2	5:A2:236:VAL:HB	1.79	0.65
2:AL:135:ASP:HB3	2:AL:139:LYS:HB2	1.79	0.65
6:AV:226:GLU:OE2	6:Ap:262:LYS:NZ	2.29	0.65
7:Ab:200:ASN:ND2	7:Ab:231:VAL:O	2.28	0.65
6:Ad:456:LEU:H	6:Ad:475:THR:HG22	1.62	0.65
7:BC:261:GLN:NE2	7:BE:285:GLU:OE1	2.30	0.65
3:BX:25:ILE:HG22	3:BX:27:TYR:H	1.61	0.65
1:n:243:LYS:H	8:t:4:TYR:H	1.45	0.65
8:s:7:ASN:OD1	8:s:7:ASN:N	2.29	0.65
3:7:52:GLY:HA2	3:7:57:LYS:HA	1.79	0.65
3:AI:106:GLU:O	3:AI:109:LYS:NZ	2.30	0.65
7:AY:12:LEU:HD13	7:AY:38:ILE:HD12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AY:123:THR:HG22	7:AY:125:CYS:H	1.60	0.65
7:Al:199:GLY:O	7:Al:204:TYR:OH	2.15	0.65
3:Bh:17:ARG:HG3	3:Bh:20:LEU:HD12	1.78	0.65
5:A2:440:GLU:HA	5:A2:443:ASN:HD22	1.61	0.65
2:AO:488:TRP:O	2:AO:552:ASN:ND2	2.29	0.65
6:AZ:118:ASN:HB2	6:AZ:119:SER:HB2	1.77	0.65
6:AZ:235:LEU:HD23	7:BC:92:ILE:HG22	1.78	0.65
6:Ag:336:ASP:HB3	6:Ag:339:ASP:HB2	1.78	0.65
6:Ai:230:THR:HB	6:Ay:71:ASP:HB3	1.79	0.65
2:B2:488:TRP:HB3	2:B2:556:LEU:HD12	1.79	0.65
2:B6:560:LEU:HD21	2:B6:601:ILE:HD11	1.78	0.65
2:Bt:453:ASN:HB2	2:Bt:506:ALA:HB3	1.77	0.65
8:r:25:GLN:O	8:r:136:GLN:NE2	2.30	0.65
2:3:211:GLN:NE2	2:3:329:ASN:OD1	2.29	0.64
2:3:571:ARG:NH2	2:3:587:GLU:OE1	2.30	0.64
6:AX:249:GLU:OE2	6:Ak:66:ALA:N	2.29	0.64
7:Aq:269:MET:SD	1:l:50:SER:OG	2.54	0.64
7:Ar:264:ALA:HA	7:Ar:267:GLN:HB2	1.78	0.64
6:Au:115:GLN:NE2	6:Au:444:MET:SD	2.70	0.64
5:Av:33:ALA:HB2	5:Av:188:ILE:HD13	1.79	0.64
2:B4:368:VAL:O	2:B4:400:ARG:NH2	2.30	0.64
2:Bs:264:THR:O	2:Bs:266:LYS:N	2.30	0.64
2:Bu:490:SER:O	2:Bu:496:ARG:NH1	2.30	0.64
2:Bv:635:ILE:HD11	2:Bw:576:ASN:HD22	1.60	0.64
1:k:185:LEU:HD22	1:k:197:SER:HB2	1.79	0.64
2:1:32:LYS:HE2	2:1:350:VAL:HB	1.79	0.64
5:A0:504:GLN:NE2	5:A0:508:GLU:OE2	2.30	0.64
6:Af:190:LEU:HB3	6:Af:221:LEU:HB3	1.80	0.64
7:Aq:143:GLN:OE1	5:BB:263:GLN:NE2	2.29	0.64
2:Bq:654:LEU:HD13	2:Br:605:ARG:HD3	1.78	0.64
2:1:423:VAL:HG21	2:1:513:GLN:HB3	1.80	0.64
6:Af:264:ARG:NH1	6:Af:477:TYR:OH	2.30	0.64
6:Ah:521:ILE:HA	6:BI:341:ARG:HH22	1.62	0.64
6:Au:154:PHE:O	6:Au:248:ASN:ND2	2.30	0.64
5:Ax:290:GLY:O	5:Ax:291:ASN:ND2	2.26	0.64
2:B2:638:ILE:HG12	2:B3:623:PHE:HB3	1.80	0.64
2:B3:100:GLU:HB3	2:B3:188:ILE:HD11	1.79	0.64
6:BK:383:VAL:HG21	6:BK:425:ILE:HG12	1.78	0.64
2:Bt:239:VAL:HG22	2:Bt:280:ALA:HB3	1.79	0.64
4:b:44:MET:HE1	4:g:44:MET:HG2	1.78	0.64
2:1:455:LYS:HB2	2:1:470:LEU:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:125:LYS:HG2	3:AF:79:HIS:HB2	1.79	0.64
3:AH:114:ARG:HG2	3:AH:126:GLU:HG3	1.78	0.64
2:AM:654:LEU:HD13	2:By:605:ARG:HD3	1.80	0.64
7:Al:65:ASP:HB3	7:Al:68:ARG:HB2	1.77	0.64
7:As:22:ALA:HB1	7:As:23:PRO:HD2	1.80	0.64
6:Au:153:MET:HE1	6:Au:177:ILE:HD13	1.79	0.64
6:BK:123:GLN:HG2	6:BK:258:VAL:HG12	1.80	0.64
4:K:48:THR:HG21	4:L:47:PRO:HB2	1.78	0.64
5:A0:451:ASP:O	5:BG:458:LYS:NZ	2.26	0.64
7:A6:230:VAL:HG21	7:A6:233:GLN:HE21	1.62	0.64
6:A7:98:MET:HE2	6:A8:127:LEU:HB2	1.79	0.64
2:AD:563:ASN:ND2	2:AD:591:TYR:OH	2.31	0.64
7:As:12:LEU:HD12	7:As:242:TYR:HD2	1.62	0.64
2:B3:166:ASN:OD1	2:B3:166:ASN:N	2.27	0.64
5:BG:178:ASP:HB3	5:BG:181:GLN:HB2	1.78	0.64
6:BK:235:LEU:O	6:BK:245:ASN:ND2	2.30	0.64
6:BK:318:LYS:NZ	6:BK:339:ASP:OD1	2.30	0.64
3:Bc:40:ALA:O	3:Bc:69:TRP:NE1	2.27	0.64
3:Bh:114:ARG:HG2	3:Bh:126:GLU:HG3	1.80	0.64
3:Bo:43:ALA:O	3:Bo:162:TRP:NE1	2.31	0.64
2:Bs:375:ALA:HB3	2:Bs:407:CYS:HA	1.80	0.64
2:3:538:ASP:HB2	2:3:551:ILE:HB	1.79	0.64
5:A1:198:ILE:HG21	5:BD:8:LEU:HD21	1.80	0.64
7:Aa:40:ARG:HH21	7:Aa:254:LEU:HD22	1.63	0.64
6:Az:131:TYR:HB3	6:Az:250:MET:HG2	1.79	0.64
2:B4:139:LYS:HB3	2:B4:141:LYS:HZ3	1.62	0.64
6:BI:428:TYR:O	6:BI:430:LYS:NZ	2.31	0.64
6:BK:268:ALA:HB1	6:BK:290:LEU:HD13	1.79	0.64
2:By:35:TRP:HB2	2:By:230:LEU:HD12	1.78	0.64
4:W:35:ASP:OD1	4:b:27:ASN:ND2	2.31	0.64
4:a:48:THR:HG21	4:f:47:PRO:HB2	1.79	0.64
1:0:216:ASP:HB3	1:0:219:ALA:HB2	1.80	0.64
2:3:545:PRO:HG3	2:4:271:TYR:HB3	1.78	0.64
3:7:56:ARG:HG3	3:9:99:ILE:HG22	1.78	0.64
6:A7:151:ASP:HB3	6:A7:154:PHE:HB2	1.79	0.64
9:AC:19:VAL:HG21	9:AC:37:VAL:HG21	1.78	0.64
2:AK:490:SER:O	2:AK:496:ARG:NH1	2.31	0.64
6:Ah:79:ILE:HG23	6:BI:121:THR:HG23	1.80	0.64
6:Ah:131:TYR:HB3	6:Ah:250:MET:HG2	1.80	0.64
6:An:131:TYR:HE1	6:An:141:LYS:HB2	1.62	0.64
5:Ax:467:ILE:HD13	5:BA:473:ALA:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Az:147:MET:HG3	6:Az:367:GLN:HA	1.80	0.64
7:BE:193:ASP:O	7:BE:242:TYR:OH	2.16	0.64
5:BF:278:ARG:NH1	5:BG:330:MET:O	2.30	0.64
5:BF:289:THR:HG22	7:BL:303:PRO:HG3	1.78	0.64
3:BX:113:VAL:HG13	3:BX:127:ILE:HG23	1.79	0.64
3:Bb:106:GLU:O	3:Bb:109:LYS:NZ	2.29	0.64
3:Bi:117:ALA:HB3	3:Bi:122:THR:HB	1.79	0.64
3:Bk:63:ASP:OD2	3:Bo:147:ASN:ND2	2.31	0.64
2:Bs:135:ASP:HB3	2:Bs:139:LYS:HB2	1.78	0.64
1:0:173:LYS:HB3	8:q:69:GLU:HB2	1.79	0.64
3:6:52:GLY:HA2	3:6:57:LYS:HA	1.80	0.64
5:A2:214:SER:HB3	5:A2:221:MET:HB2	1.80	0.64
6:A5:459:LEU:HD21	6:A5:474:LYS:HE2	1.80	0.64
6:A7:383:VAL:HG21	6:A7:425:ILE:HG12	1.80	0.64
6:A9:279:ARG:NH1	5:Av:62:PHE:O	2.31	0.64
8:AB:256:THR:OG1	8:AB:257:SER:N	2.29	0.64
6:AW:263:SER:HB3	6:AW:476:ARG:HG2	1.78	0.64
6:AW:268:ALA:HB1	6:AW:290:LEU:HD13	1.79	0.64
6:Ae:456:LEU:H	6:Ae:475:THR:HG22	1.63	0.64
6:Ag:481:ILE:HD11	6:Ag:501:PRO:HA	1.80	0.64
6:Ai:93:PRO:O	6:Am:123:GLN:NE2	2.31	0.64
6:Am:76:ALA:HB1	6:BJ:496:ILE:HG22	1.80	0.64
6:Aw:131:TYR:HD2	6:Aw:250:MET:HE3	1.63	0.64
3:BY:85:PHE:HB3	3:BY:137:VAL:HG21	1.80	0.64
3:Be:162:TRP:O	3:Bh:95:GLN:NE2	2.30	0.64
2:1:38:ALA:HA	2:1:82:ARG:HB3	1.78	0.64
2:5:490:SER:O	2:5:496:ARG:NH1	2.31	0.64
6:A8:383:VAL:HG21	6:A8:425:ILE:HG12	1.79	0.64
8:AB:125:ARG:NH1	8:u:47:GLU:OE2	2.31	0.64
3:AG:8:ARG:O	3:AH:31:ASN:ND2	2.30	0.64
10:AU:325:TRP:HA	10:AU:338:ARG:HH21	1.62	0.64
6:Au:121:THR:OG1	6:BJ:90:GLN:O	2.14	0.64
2:B5:521:ALA:HA	2:B5:539:LYS:HE3	1.80	0.64
2:B6:645:THR:OG1	2:B7:629:ILE:O	2.15	0.64
6:BK:105:ASN:HB2	6:BK:412:VAL:HG23	1.79	0.64
2:Bp:239:VAL:HG22	2:Bp:280:ALA:HB3	1.80	0.64
2:2:620:ARG:NH1	2:2:622:GLU:OE2	2.31	0.64
5:A0:473:ALA:HB2	5:BH:467:ILE:HD13	1.80	0.64
2:AM:154:ALA:HA	2:AM:157:VAL:HG22	1.80	0.64
6:Ac:152:ALA:O	6:Aw:264:ARG:NH2	2.31	0.64
6:Ac:456:LEU:H	6:Ac:475:THR:HG22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:278:LEU:HD12	6:Ah:286:ALA:HB2	1.79	0.64
2:B1:617:VAL:HG13	2:B1:622:GLU:HB2	1.80	0.64
6:BM:417:LEU:HB3	6:BM:421:TYR:HB2	1.79	0.64
3:BY:104:PRO:O	3:BY:108:LYS:HB2	1.97	0.64
8:u:155:ASN:O	8:u:157:ILE:N	2.31	0.64
3:8:54:MET:O	3:8:55:ASN:ND2	2.31	0.63
3:AF:19:ASN:OD1	3:AF:19:ASN:N	2.26	0.63
3:AH:17:ARG:HG3	3:AH:20:LEU:HD12	1.80	0.63
2:AK:237:GLU:OE1	2:AK:284:ARG:NH2	2.28	0.63
7:Ar:151:MET:HE2	7:At:110:PHE:HB2	1.81	0.63
7:At:121:MET:SD	7:At:122:GLY:N	2.68	0.63
5:BA:282:ARG:HA	5:BH:278:ARG:HH22	1.63	0.63
5:BH:379:ARG:NH1	5:BH:400:GLU:OE2	2.30	0.63
2:Bt:459:ASP:OD2	2:Bt:466:ARG:NH1	2.31	0.63
2:Bu:110:TYR:HE1	2:Bu:171:ILE:HG21	1.63	0.63
2:Bx:477:LEU:HD21	2:Bx:497:GLY:HA2	1.81	0.63
4:b:48:THR:HG21	4:g:47:PRO:HB2	1.80	0.63
1:n:41:ILE:HD13	1:p:5:ASP:HB2	1.80	0.63
6:A5:241:GLY:HA3	11:BT:43:GLY:HA2	1.80	0.63
3:AF:1:MET:SD	3:AG:22:GLN:NE2	2.72	0.63
6:AV:142:GLU:H	6:AV:490:GLN:HG2	1.63	0.63
7:Ab:62:VAL:HG13	7:Ab:68:ARG:HB2	1.78	0.63
6:Ae:383:VAL:HG21	6:Ae:425:ILE:HG12	1.79	0.63
6:Au:299:MET:HE1	5:BH:65:TYR:HB2	1.80	0.63
2:B4:91:ASN:ND2	2:B4:195:LEU:O	2.30	0.63
2:Bu:561:LYS:HD2	2:Bw:10:LEU:HD13	1.80	0.63
4:f:36:THR:OG1	4:f:37:GLN:N	2.32	0.63
1:l:213:ILE:HG21	8:s:70:THR:HA	1.79	0.63
8:q:28:ARG:NH2	8:q:129:ASP:OD2	2.32	0.63
2:2:110:TYR:HE1	2:2:171:ILE:HG21	1.64	0.63
5:A1:89:ASP:OD2	5:BB:256:ARG:NH1	2.32	0.63
10:AQ:374:THR:HG21	6:AX:337:PRO:HG2	1.79	0.63
6:An:262:LYS:NZ	6:BK:226:GLU:OE2	2.31	0.63
6:Au:363:GLU:OE2	6:Au:366:ARG:NH1	2.30	0.63
2:B1:364:ASP:OD1	2:Bz:514:ARG:NH1	2.29	0.63
5:BB:72:THR:OG1	5:BB:155:ARG:NH2	2.30	0.63
2:4:94:PRO:HB2	2:4:219:ILE:HD12	1.80	0.63
2:AO:645:THR:OG1	2:B5:629:ILE:O	2.15	0.63
7:Aa:269:MET:SD	1:k:50:SER:OG	2.57	0.63
6:Ac:459:LEU:HD21	6:Ac:474:LYS:HE2	1.80	0.63
7:Aq:192:ILE:HD11	7:Aq:226:LEU:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:378:CYS:HB2	2:B7:410:PRO:HA	1.79	0.63
2:B7:538:ASP:N	2:B7:538:ASP:OD1	2.29	0.63
5:BG:379:ARG:NH1	5:BG:400:GLU:OE2	2.31	0.63
2:Bp:550:ARG:HB3	2:Bp:553:VAL:HG12	1.79	0.63
2:Bs:560:LEU:HD21	2:Bs:601:ILE:HD11	1.80	0.63
2:Bu:70:ASN:OD1	2:Bu:457:GLN:NE2	2.28	0.63
4:g:10:PHE:HB3	4:g:22:ILE:HG12	1.81	0.63
1:n:154:PRO:HA	1:n:167:ARG:HD3	1.80	0.63
2:2:654:LEU:HD13	2:AP:605:ARG:HH11	1.62	0.63
5:A3:495:ASP:HA	5:A3:498:ILE:HB	1.81	0.63
8:AB:128:ASP:HB3	1:p:76:LEU:HD21	1.80	0.63
2:AO:206:THR:HA	2:AO:211:GLN:HE21	1.64	0.63
6:Ae:279:ARG:NH2	6:Ae:285:ASP:OD1	2.31	0.63
6:Af:268:ALA:HB1	6:Af:290:LEU:HD13	1.80	0.63
6:Ag:154:PHE:O	6:Ag:248:ASN:ND2	2.31	0.63
6:Ag:380:ARG:NH1	6:Ag:427:GLN:O	2.32	0.63
6:Ap:271:SER:HA	6:Ap:468:GLN:HB3	1.81	0.63
7:Aq:161:PHE:HA	7:Aq:171:LYS:O	1.98	0.63
2:B5:510:ARG:H	2:B5:513:GLN:HE21	1.46	0.63
5:BB:310:ASN:HB3	5:BB:325:GLN:HA	1.80	0.63
5:BD:397:THR:O	5:BD:399:ASP:N	2.31	0.63
5:BG:245:CYS:SG	5:BG:246:CYS:N	2.71	0.63
3:Bo:113:VAL:HG13	3:Bo:127:ILE:HG23	1.80	0.63
2:Bt:391:LYS:NZ	2:Bt:440:ASN:O	2.32	0.63
4:W:10:PHE:HB3	4:W:22:ILE:HG12	1.80	0.63
2:2:252:LEU:HB3	2:2:336:GLY:HA2	1.79	0.63
2:4:605:ARG:HB3	2:4:628:TYR:HD1	1.63	0.63
6:A5:237:GLU:HB3	6:Aj:465:LYS:HB3	1.79	0.63
6:A5:266:LEU:HB3	6:A5:294:LEU:HD22	1.81	0.63
3:AA:114:ARG:HG2	3:AA:126:GLU:HG3	1.80	0.63
7:Aa:61:TYR:O	7:Aa:68:ARG:NH1	2.31	0.63
5:BA:7:SER:O	5:BA:9:PHE:N	2.31	0.63
3:Bm:17:ARG:HG3	3:Bm:20:LEU:HD12	1.81	0.63
4:W:48:THR:HG21	4:b:47:PRO:HB2	1.80	0.63
2:2:38:ALA:HA	2:2:82:ARG:HB3	1.79	0.63
2:5:161:PRO:HB2	2:5:187:ILE:HB	1.79	0.63
5:A1:281:ASP:O	5:BB:278:ARG:NH2	2.32	0.63
5:A2:432:ILE:HG23	5:A2:436:GLU:HB2	1.80	0.63
6:A4:107:ILE:O	6:A4:303:ASN:ND2	2.31	0.63
6:A5:430:LYS:HG2	6:AW:216:MET:HE1	1.81	0.63
3:AE:11:GLU:OE2	3:AF:31:ASN:ND2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:455:LYS:NZ	2:AK:473:ASP:OD2	2.30	0.63
6:Ag:350:PHE:HB2	6:Ag:389:VAL:HG11	1.80	0.63
6:Ah:344:ARG:HH21	6:BI:344:ARG:HH12	1.46	0.63
2:B1:488:TRP:HB3	2:B1:556:LEU:HD12	1.81	0.63
5:BD:73:ARG:NH2	5:BD:181:GLN:OE1	2.31	0.63
11:BP:11:LYS:HG3	11:BP:27:GLU:HG2	1.81	0.63
3:Bk:41:LEU:HD12	3:Bk:127:ILE:HD13	1.79	0.63
2:Bs:202:GLU:OE1	2:Bs:203:ALA:N	2.32	0.63
2:Bw:453:ASN:HB2	2:Bw:506:ALA:HB3	1.81	0.63
2:Bw:538:ASP:N	2:Bw:538:ASP:OD1	2.31	0.63
8:u:85:ASN:HD22	8:u:87:PRO:HD2	1.63	0.63
8:u:215:ASP:OD1	8:u:215:ASP:N	2.32	0.63
6:A4:136:VAL:HG13	6:A4:253:ARG:HD2	1.81	0.63
3:AE:47:GLU:OE1	3:Ba:148:ASN:ND2	2.32	0.63
3:AI:28:LEU:HB3	3:AI:84:LYS:HE3	1.79	0.63
6:AZ:279:ARG:NH2	6:AZ:285:ASP:OD1	2.31	0.63
2:B3:561:LYS:HD2	2:B5:10:LEU:HD13	1.80	0.63
6:BK:363:GLU:OE2	6:BK:366:ARG:NH1	2.32	0.63
2:Bw:561:LYS:HD2	2:By:10:LEU:HD13	1.79	0.63
3:o:39:THR:OG1	3:o:69:TRP:NE1	2.32	0.63
8:q:230:PHE:HB3	8:q:258:ASN:HA	1.81	0.63
2:1:637:TYR:HB2	2:AO:622:GLU:HG2	1.80	0.63
3:7:74:MET:HA	3:7:152:THR:HG22	1.81	0.63
3:8:56:ARG:NH2	3:AA:96:GLY:O	2.32	0.63
5:A3:72:THR:HG23	5:A3:155:ARG:HH21	1.64	0.63
8:AB:28:ARG:NH2	8:AB:129:ASP:OD2	2.32	0.63
2:AM:490:SER:O	2:AM:496:ARG:NH1	2.29	0.63
7:Aq:12:LEU:HD13	7:Aq:38:ILE:HD12	1.81	0.63
6:Aw:398:GLN:OE1	6:Aw:399:GLY:N	2.32	0.63
5:Ax:283:ARG:HH21	5:BA:278:ARG:HD2	1.62	0.63
2:B5:228:GLY:HA2	2:B5:345:SER:HB3	1.80	0.63
2:Bu:538:ASP:OD1	2:Bu:538:ASP:N	2.31	0.63
2:Bz:20:VAL:HG21	2:Bz:46:ASN:HD21	1.64	0.63
4:K:34:ALA:H	4:L:26:LYS:HA	1.62	0.63
1:n:155:TYR:HB2	1:n:158:PHE:HA	1.80	0.63
2:3:368:VAL:HG23	2:3:400:ARG:HH21	1.63	0.62
6:A5:261:ALA:HA	6:A5:478:GLY:HA3	1.80	0.62
6:A5:515:ARG:NH2	6:A5:517:TYR:OH	2.32	0.62
2:AD:605:ARG:HG2	2:AD:607:VAL:HG23	1.80	0.62
2:AL:28:ALA:HB2	2:AL:370:VAL:HG21	1.80	0.62
2:AP:645:THR:OG1	2:Bp:629:ILE:O	2.16	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aa:210:GLN:HG2	7:Aa:227:VAL:HG13	1.81	0.62
6:Ac:257:GLN:NE2	6:Ac:481:ILE:O	2.32	0.62
2:B6:220:PRO:HD2	2:B6:338:LEU:HD11	1.80	0.62
5:BA:310:ASN:HA	5:BA:326:HIS:H	1.62	0.62
3:Bo:85:PHE:HB3	3:Bo:137:VAL:HG21	1.81	0.62
2:Bx:34:GLN:NE2	2:Bx:56:GLN:O	2.32	0.62
2:By:24:THR:O	2:By:483:ASN:ND2	2.32	0.62
2:Bz:550:ARG:HB3	2:Bz:553:VAL:HG12	1.81	0.62
1:l:78:ASN:ND2	1:l:179:GLU:OE1	2.32	0.62
1:m:177:SER:HB2	1:m:207:LEU:HB3	1.78	0.62
8:t:155:ASN:O	8:t:157:ILE:N	2.32	0.62
2:AL:131:ILE:HG12	2:AL:143:ILE:HG22	1.80	0.62
7:Ab:173:MET:HE1	7:Ar:55:LYS:HD3	1.82	0.62
7:Ab:193:ASP:O	7:Ab:242:TYR:OH	2.18	0.62
6:Ad:452:PRO:HB3	6:Ad:477:TYR:HD1	1.64	0.62
6:Af:152:ALA:O	6:Az:264:ARG:NH2	2.32	0.62
6:An:377:ILE:HG23	6:An:435:THR:HG23	1.81	0.62
5:BF:245:CYS:SG	5:BF:246:CYS:N	2.72	0.62
3:Bl:85:PHE:HB3	3:Bl:137:VAL:HG21	1.79	0.62
2:Bp:645:THR:OG1	2:Bq:629:ILE:O	2.16	0.62
2:Bx:559:MET:SD	2:Bx:563:ASN:ND2	2.71	0.62
1:k:204:VAL:HA	8:r:66:ALA:HB2	1.79	0.62
2:4:34:GLN:HE21	2:4:230:LEU:HD11	1.63	0.62
2:4:36:GLY:O	2:4:82:ARG:NH1	2.31	0.62
2:4:547:PRO:HG2	8:t:229:VAL:HG13	1.81	0.62
6:A5:299:MET:HA	6:A5:302:ILE:HD12	1.80	0.62
10:AS:344:MET:HE2	10:AS:351:VAL:HB	1.80	0.62
7:Ab:143:GLN:NE2	5:BA:263:GLN:OE1	2.32	0.62
6:Af:79:ILE:HG23	6:Aj:121:THR:HG23	1.81	0.62
2:B4:239:VAL:HG22	2:B4:280:ALA:HB3	1.81	0.62
2:B5:98:ASN:HB2	2:B5:188:ILE:HD12	1.82	0.62
3:Bg:23:VAL:HG11	3:Bg:39:THR:HG21	1.81	0.62
3:Bg:113:VAL:HG13	3:Bg:127:ILE:HG23	1.80	0.62
2:Br:375:ALA:HB3	2:Br:407:CYS:HA	1.82	0.62
2:Bx:414:VAL:HB	2:Bx:426:LEU:HD21	1.80	0.62
4:E:48:THR:HG21	4:P:47:PRO:HB2	1.80	0.62
4:H:5:LEU:HD13	4:H:61:ASN:HB3	1.81	0.62
8:q:238:VAL:HG22	8:q:239:PRO:HD2	1.80	0.62
2:1:271:TYR:HB3	2:AD:545:PRO:HG3	1.79	0.62
2:3:511:GLN:OE1	2:3:514:ARG:NH2	2.31	0.62
6:A9:147:MET:HB3	6:A9:185:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:220:PRO:HG2	2:AK:338:LEU:HD11	1.81	0.62
2:AN:121:VAL:HG13	2:AN:166:ASN:HA	1.81	0.62
6:Ad:268:ALA:HB1	6:Ad:290:LEU:HD13	1.80	0.62
6:Ae:450:TYR:HB2	6:Ae:479:ILE:HG22	1.80	0.62
6:Ap:131:TYR:HE1	6:Ap:141:LYS:HB2	1.64	0.62
2:B4:450:ILE:O	2:B4:523:ASN:ND2	2.32	0.62
5:BB:355:ASN:ND2	5:BB:359:MET:SD	2.72	0.62
6:BJ:377:ILE:HG12	6:BJ:435:THR:HG23	1.81	0.62
3:BX:19:ASN:OD1	3:BX:19:ASN:N	2.32	0.62
3:Bd:72:THR:HG22	3:Bd:154:GLU:HG3	1.80	0.62
2:Bx:517:LEU:HD23	2:Bx:524:PRO:HB3	1.80	0.62
1:0:176:TYR:HD1	8:q:71:ILE:HG23	1.64	0.62
6:A4:76:ALA:HB1	6:A5:496:ILE:HG12	1.82	0.62
6:A8:249:GLU:OE1	6:Au:66:ALA:N	2.32	0.62
3:AF:31:ASN:OD1	3:AF:31:ASN:N	2.30	0.62
2:AO:379:ALA:HB2	2:AO:454:TYR:HE2	1.65	0.62
6:AX:131:TYR:HD2	6:AX:250:MET:HE3	1.64	0.62
6:Ac:235:LEU:O	6:Ac:245:ASN:ND2	2.33	0.62
6:Ai:381:ASN:HB3	6:Ai:521:ILE:HG21	1.79	0.62
4:B:66:LYS:NZ	4:G:3:ILE:O	2.31	0.62
2:B2:110:TYR:H	2:B2:138:GLY:HA3	1.64	0.62
6:BJ:257:GLN:NE2	6:BJ:481:ILE:O	2.31	0.62
3:BZ:4:ASP:OD2	2:Bu:593:GLN:NE2	2.32	0.62
3:Bd:43:ALA:O	3:Bd:162:TRP:NE1	2.32	0.62
2:Bu:455:LYS:NZ	2:Bu:473:ASP:OD1	2.32	0.62
2:By:269:PHE:HE2	2:By:282:ILE:HG12	1.63	0.62
4:b:62:ILE:HD12	4:g:58:LEU:HD22	1.81	0.62
2:2:66:MET:HG2	2:2:468:VAL:HG21	1.81	0.62
2:2:90:LYS:HD3	2:2:194:LEU:HB2	1.81	0.62
7:A6:161:PHE:O	5:BF:303:HIS:NE2	2.32	0.62
2:AL:225:LEU:HD12	2:AL:324:PHE:HB2	1.81	0.62
6:Ac:432:ASP:HB3	6:Ac:518:VAL:HG22	1.81	0.62
6:Ao:262:LYS:NZ	6:BM:226:GLU:OE2	2.33	0.62
5:BF:474:GLU:HG3	5:BF:475:PRO:HD3	1.82	0.62
3:BZ:23:VAL:HG12	3:BZ:113:VAL:HB	1.81	0.62
3:Bf:1:MET:SD	3:Bi:22:GLN:NE2	2.72	0.62
3:Bg:28:LEU:HD22	3:Bg:84:LYS:HB3	1.79	0.62
2:Bp:379:ALA:HA	2:Bp:411:ARG:HB2	1.81	0.62
2:Bs:453:ASN:HB2	2:Bs:506:ALA:HB3	1.82	0.62
2:Bu:400:ARG:NH1	2:Bu:403:CYS:SG	2.73	0.62
2:Bv:119:LYS:HE3	2:Bv:122:SER:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:127:VAL:O	1:l:128:ASN:ND2	2.27	0.62
2:1:240:SER:OG	2:1:334:PHE:O	2.17	0.62
2:AD:32:LYS:HE2	2:AD:350:VAL:HB	1.82	0.62
2:AD:51:VAL:HG22	2:AD:65:PHE:HZ	1.63	0.62
2:AN:430:ARG:HG3	2:AN:522:ILE:HD11	1.79	0.62
7:Aa:28:GLU:HG2	1:l:31:VAL:HG12	1.80	0.62
6:Ap:322:THR:HG22	6:Ap:359:LYS:HG2	1.80	0.62
5:Ax:373:LEU:O	5:Ax:374:ARG:HB2	1.97	0.62
3:Bm:82:ARG:HH12	3:Bm:138:GLY:HA2	1.64	0.62
2:Bp:227:PRO:HB2	2:Bp:345:SER:HB3	1.82	0.62
2:Br:92:SER:HB3	2:Br:340:LEU:HB3	1.81	0.62
2:Bv:98:ASN:HB2	2:Bv:188:ILE:HD12	1.82	0.62
4:E:27:ASN:ND2	4:U:35:ASP:OD1	2.33	0.62
1:n:87:ALA:HB2	1:p:26:ILE:HG23	1.80	0.62
6:A7:465:LYS:HB3	6:Ae:237:GLU:HB3	1.80	0.62
6:A8:462:SER:HB2	7:Ab:111:LEU:HD21	1.80	0.62
3:AF:104:PRO:O	3:AF:108:LYS:HB2	1.99	0.62
3:AI:72:THR:HG22	3:AI:154:GLU:HG3	1.81	0.62
2:AL:488:TRP:O	2:AL:552:ASN:ND2	2.32	0.62
7:AY:163:PHE:HB2	7:AY:170:LEU:HD13	1.80	0.62
6:Aj:76:ALA:HB1	6:An:496:ILE:HG22	1.80	0.62
6:Ao:157:GLN:HA	6:Ao:228:MET:HE2	1.81	0.62
5:Av:166:ARG:NH2	5:Ax:26:GLU:OE1	2.33	0.62
2:B5:16:GLN:NE2	2:B5:460:LYS:O	2.31	0.62
3:Bk:8:ARG:O	3:Bn:31:ASN:ND2	2.33	0.62
2:Bw:378:CYS:HB2	2:Bw:410:PRO:HA	1.80	0.62
9:x:168:LYS:HD2	9:y:85:ILE:HG21	1.81	0.62
2:2:620:ARG:O	8:r:240:ARG:NH2	2.32	0.62
3:6:96:GLY:O	3:AA:56:ARG:NH2	2.33	0.62
5:A2:374:ARG:NH2	5:BF:93:SER:OG	2.32	0.62
5:A3:355:ASN:ND2	5:A3:359:MET:SD	2.73	0.62
2:AK:11:LYS:HG2	2:AK:13:THR:HG23	1.81	0.62
2:AP:102:THR:HB	2:AP:183:THR:HB	1.82	0.62
6:Ae:237:GLU:HG2	6:Ae:246:PRO:HA	1.81	0.62
7:At:108:THR:HB	6:BJ:281:VAL:HG13	1.82	0.62
7:At:193:ASP:O	7:At:242:TYR:OH	2.18	0.62
5:Ax:397:THR:HG23	5:Ax:400:GLU:HB2	1.82	0.62
6:Ay:268:ALA:HB1	6:Ay:290:LEU:HD13	1.82	0.62
2:B7:264:THR:O	2:B7:266:LYS:N	2.33	0.62
11:BR:64:GLN:O	11:BR:66:THR:N	2.33	0.62
3:BY:137:VAL:HB	3:BY:155:VAL:HG13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A9:422:ARG:NH2	6:A9:424:TYR:OH	2.33	0.62
2:AL:378:CYS:HB2	2:AL:410:PRO:HA	1.82	0.62
6:Ad:131:TYR:HB3	6:Ad:250:MET:HG2	1.82	0.62
6:Aj:255:ASP:OD1	6:Aj:255:ASP:N	2.33	0.62
6:Ap:332:PHE:HB3	6:Ap:518:VAL:HG12	1.81	0.62
5:Ax:89:ASP:OD2	5:BA:256:ARG:NH1	2.33	0.62
2:B3:401:GLN:O	2:B3:561:LYS:NZ	2.33	0.62
4:P:23:SER:OG	4:P:26:LYS:NZ	2.31	0.62
1:k:243:LYS:H	8:q:4:TYR:H	1.48	0.62
5:A1:72:THR:HG23	5:A1:155:ARG:HH21	1.65	0.61
6:A4:482:ASN:ND2	6:A4:483:PRO:O	2.33	0.61
6:AW:383:VAL:HG21	6:AW:425:ILE:HG12	1.82	0.61
7:Ar:76:LEU:HD13	7:Ar:81:VAL:HG21	1.82	0.61
5:Ax:497:GLU:OE1	5:Ax:500:GLN:NE2	2.27	0.61
2:B1:100:GLU:HB3	2:B1:188:ILE:HD11	1.80	0.61
2:B2:36:GLY:O	2:B2:82:ARG:NH1	2.32	0.61
5:BF:390:PHE:HZ	5:BF:452:SER:HB2	1.65	0.61
6:BK:387:ALA:HB2	6:BK:404:PHE:HB2	1.82	0.61
11:BO:26:LYS:NZ	11:BO:74:ASP:OD2	2.32	0.61
2:Bt:202:GLU:OE1	2:Bt:203:ALA:N	2.31	0.61
2:Bz:470:LEU:HD11	2:Bz:499:ILE:HG21	1.80	0.61
4:X:9:PRO:HD3	4:X:57:VAL:HG21	1.81	0.61
8:q:213:TYR:HB3	8:q:271:ARG:HH21	1.65	0.61
8:t:25:GLN:O	8:t:136:GLN:NE2	2.33	0.61
5:A2:72:THR:HG23	5:A2:155:ARG:HH21	1.64	0.61
2:AL:550:ARG:HB3	2:AL:553:VAL:HG12	1.82	0.61
2:AM:235:GLU:OE2	2:AM:261:ARG:NH2	2.33	0.61
2:AP:438:ASP:OD1	2:AP:438:ASP:N	2.30	0.61
10:AR:316:GLN:NE2	10:AR:374:THR:O	2.33	0.61
6:AX:105:ASN:ND2	6:AX:409:THR:O	2.33	0.61
6:Ag:230:THR:HB	6:Aw:71:ASP:HB3	1.80	0.61
6:Ak:106:LEU:HB3	6:Ak:303:ASN:HD22	1.64	0.61
6:An:417:LEU:HB2	6:An:421:TYR:HB2	1.83	0.61
5:Av:434:GLU:O	5:Av:438:ASN:ND2	2.33	0.61
6:BK:278:LEU:HD22	6:BK:284:MET:HB2	1.81	0.61
3:Bi:90:SER:HA	3:Bi:94:GLY:H	1.65	0.61
3:Bn:40:ALA:O	3:Bn:69:TRP:NE1	2.33	0.61
3:Bn:80:ASP:OD2	3:Bn:84:LYS:NZ	2.33	0.61
2:Bq:110:TYR:H	2:Bq:138:GLY:HA3	1.65	0.61
2:Bt:521:ALA:HA	2:Bt:539:LYS:HD3	1.81	0.61
2:Bv:133:GLU:HB3	2:Bv:142:LYS:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bz:511:GLN:OE1	2:Bz:514:ARG:NH2	2.33	0.61
8:r:72:LEU:O	8:r:74:ARG:N	2.33	0.61
2:3:639:THR:HB	2:AK:624:VAL:HG12	1.83	0.61
7:A6:36:ASP:OD1	7:A6:40:ARG:NH1	2.33	0.61
3:AA:22:GLN:OE1	3:AA:114:ARG:NH2	2.33	0.61
8:AB:70:THR:HG22	1:p:213:ILE:HD13	1.82	0.61
8:AB:184:ARG:NH1	8:u:45:SER:OG	2.33	0.61
3:AE:63:ASP:HB3	3:Ba:147:ASN:HB3	1.83	0.61
2:AO:264:THR:O	2:AO:266:LYS:N	2.33	0.61
7:Al:76:LEU:HB3	7:Al:79:SER:HB3	1.81	0.61
5:Ax:275:ARG:NH1	5:Ax:353:ALA:O	2.31	0.61
2:B1:120:TYR:HE1	2:B1:166:ASN:HD22	1.47	0.61
2:B2:49:ASP:OD1	2:B2:49:ASP:N	2.33	0.61
2:Bu:135:ASP:HB3	2:Bu:139:LYS:HB2	1.81	0.61
2:Bx:383:LEU:HD23	2:Bx:410:PRO:HG2	1.81	0.61
2:Bz:93:SER:HB3	2:Bz:191:SER:HB2	1.82	0.61
4:F:9:PRO:HD3	4:F:57:VAL:HG21	1.82	0.61
3:o:7:THR:HG23	3:o:14:ASP:H	1.65	0.61
6:A5:324:THR:HB	6:A5:327:SER:HB2	1.83	0.61
6:Ai:385:VAL:HG21	6:Ai:521:ILE:HD12	1.81	0.61
6:Ao:235:LEU:O	6:Ao:245:ASN:ND2	2.33	0.61
2:B4:24:THR:O	2:B4:483:ASN:ND2	2.29	0.61
2:B5:135:ASP:HB3	2:B5:139:LYS:HB2	1.81	0.61
2:B7:49:ASP:OD1	2:B7:49:ASP:N	2.33	0.61
6:BJ:282:HIS:HB3	6:BJ:284:MET:HG2	1.80	0.61
6:BK:340:ILE:HG13	6:BK:343:ALA:H	1.65	0.61
3:Bc:85:PHE:HB3	3:Bc:137:VAL:HG21	1.83	0.61
3:Bj:113:VAL:HG13	3:Bj:127:ILE:HG23	1.82	0.61
2:Bs:596:LYS:NZ	2:Bs:602:TYR:O	2.33	0.61
2:Bu:238:ILE:HG12	2:Bu:281:ILE:HG23	1.81	0.61
3:7:39:THR:OG1	3:7:69:TRP:NE1	2.30	0.61
5:A0:38:ASP:OD2	5:A0:186:ARG:NH2	2.33	0.61
5:A3:66:GLU:H	5:A3:69:MET:HE3	1.65	0.61
3:AF:80:ASP:OD1	3:AF:84:LYS:NZ	2.34	0.61
2:AK:129:GLY:HA3	2:AK:145:ILE:HD13	1.81	0.61
2:AK:239:VAL:HG22	2:AK:280:ALA:HB3	1.83	0.61
2:AO:28:ALA:HB2	2:AO:370:VAL:HG21	1.82	0.61
2:AP:41:ILE:HD11	2:AP:361:PHE:HB3	1.81	0.61
6:Ag:235:LEU:O	6:Ag:245:ASN:ND2	2.33	0.61
6:Ao:406:THR:OG1	6:BM:372:GLU:OE2	2.18	0.61
2:B3:571:ARG:NH2	2:B3:587:GLU:OE1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:66:MET:HG2	2:Bp:468:VAL:HG21	1.82	0.61
4:A:62:ILE:HD12	4:F:58:LEU:HD22	1.81	0.61
5:A1:467:ILE:HD13	5:BB:473:ALA:HB2	1.82	0.61
2:AD:94:PRO:HB2	2:AD:219:ILE:HD12	1.83	0.61
2:AL:57:PRO:HB3	2:AL:62:ALA:HA	1.82	0.61
6:Ae:171:GLN:OE1	6:Ae:195:GLN:NE2	2.33	0.61
6:Ao:264:ARG:NH2	6:BM:152:ALA:O	2.32	0.61
7:As:250:TYR:OH	7:As:294:ARG:NH2	2.33	0.61
6:Ay:253:ARG:HH22	6:Ay:491:ALA:HB1	1.65	0.61
6:Ay:278:LEU:HD12	6:Ay:284:MET:HB2	1.83	0.61
7:BC:150:MET:HE3	5:BH:329:SER:HB2	1.82	0.61
6:BI:235:LEU:O	6:BI:245:ASN:ND2	2.32	0.61
6:BJ:449:TYR:OH	6:BJ:482:ASN:ND2	2.34	0.61
3:Be:137:VAL:HB	3:Be:155:VAL:HG13	1.83	0.61
2:Bv:198:ILE:HD11	2:Bv:225:LEU:HD11	1.83	0.61
2:Bw:446:THR:OG1	2:Bw:554:ARG:NH2	2.30	0.61
2:Bw:473:ASP:HB3	2:Bw:499:ILE:HD12	1.83	0.61
2:Bx:455:LYS:NZ	2:Bx:473:ASP:OD2	2.33	0.61
2:By:90:LYS:NZ	2:By:190:ASP:OD1	2.32	0.61
2:4:383:LEU:HD22	2:4:439:ASN:HB2	1.83	0.61
2:4:590:GLN:HE22	3:9:8:ARG:HH12	1.48	0.61
2:5:413:THR:HG23	2:5:414:VAL:HG23	1.82	0.61
3:AE:63:ASP:OD2	3:Ba:147:ASN:ND2	2.34	0.61
3:AG:128:GLU:H	3:AG:163:GLU:HB2	1.65	0.61
2:AP:239:VAL:HG22	2:AP:280:ALA:HB3	1.82	0.61
10:AQ:357:ARG:HA	6:An:344:ARG:HD2	1.81	0.61
10:AS:313:ASP:OD2	10:AS:357:ARG:NH2	2.34	0.61
5:Av:379:ARG:NH2	5:Av:400:GLU:OE1	2.32	0.61
2:B6:521:ALA:HB1	2:B6:541:ALA:HA	1.83	0.61
5:BB:379:ARG:NH1	5:BB:400:GLU:OE2	2.31	0.61
4:N:48:THR:HG21	4:O:47:PRO:HB2	1.82	0.61
8:u:69:GLU:HG2	8:u:70:THR:H	1.66	0.61
2:1:34:GLN:NE2	2:1:56:GLN:O	2.33	0.61
2:1:563:ASN:ND2	2:1:591:TYR:OH	2.34	0.61
3:AH:25:ILE:HG23	3:AH:111:ALA:HB2	1.81	0.61
2:AL:264:THR:O	2:AL:266:LYS:N	2.34	0.61
2:AP:647:THR:O	2:Bp:630:GLN:NE2	2.34	0.61
6:Ad:503:ILE:HG23	6:Ad:507:LEU:HD13	1.82	0.61
6:An:90:GLN:OE1	7:Aq:94:SER:OG	2.19	0.61
2:B1:308:ASN:ND2	2:B1:313:ASP:OD2	2.33	0.61
6:BM:363:GLU:OE2	6:BM:366:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Be:85:PHE:HB3	3:Be:137:VAL:HG21	1.81	0.61
3:Bh:46:VAL:HG22	3:Bh:64:ARG:HE	1.65	0.61
2:Bs:104:SER:OG	2:Bs:183:THR:OG1	2.19	0.61
4:W:47:PRO:HB2	4:g:48:THR:HG21	1.82	0.61
1:k:213:ILE:HD13	8:r:70:THR:HG22	1.82	0.61
2:3:390:GLN:NE2	2:3:408:SER:O	2.28	0.61
3:7:72:THR:HG22	3:7:154:GLU:HG2	1.83	0.61
5:A0:487:MET:HG3	5:A0:491:LEU:HD12	1.82	0.61
6:A5:264:ARG:NH1	6:A5:305:GLU:OE1	2.32	0.61
8:AB:45:SER:OG	8:q:184:ARG:NH1	2.33	0.61
2:AD:246:LYS:H	2:AD:246:LYS:HD3	1.66	0.61
3:AI:114:ARG:HG2	3:AI:126:GLU:HG3	1.82	0.61
3:AJ:23:VAL:HG11	3:AJ:39:THR:HG21	1.83	0.61
2:AK:368:VAL:HG23	2:AK:400:ARG:HH21	1.65	0.61
10:AR:319:THR:HG21	10:AR:370:GLY:HA3	1.82	0.61
6:Ah:95:VAL:HG22	6:Ah:97:GLY:H	1.65	0.61
2:B4:453:ASN:HD21	2:B4:505:LEU:HG	1.66	0.61
3:Bh:85:PHE:HB3	3:Bh:137:VAL:HG21	1.83	0.61
2:Bq:556:LEU:HD21	2:Bq:601:ILE:HG12	1.82	0.61
2:Br:237:GLU:OE1	2:Br:284:ARG:NH1	2.34	0.61
2:Bz:159:GLU:OE1	2:Bz:167:TRP:NE1	2.34	0.61
4:c:9:PRO:HD3	4:c:57:VAL:HG21	1.81	0.61
1:k:78:ASN:ND2	1:k:179:GLU:OE1	2.34	0.61
8:r:45:SER:OG	8:s:184:ARG:NH1	2.33	0.61
2:1:33:PHE:O	2:1:82:ARG:NH2	2.34	0.61
2:1:590:GLN:HE22	3:6:8:ARG:HH22	1.49	0.61
3:AF:114:ARG:HG2	3:AF:126:GLU:HG2	1.81	0.61
2:AM:239:VAL:HG22	2:AM:280:ALA:HB3	1.83	0.61
2:AP:481:THR:HG23	2:AP:496:ARG:HD2	1.82	0.61
7:Ab:22:ALA:HB1	7:Ab:23:PRO:HD2	1.83	0.61
7:Al:111:LEU:HD12	6:Ap:462:SER:HB2	1.83	0.61
2:B1:366:GLU:OE2	2:Bz:514:ARG:NH1	2.34	0.61
2:B6:131:ILE:HA	2:B6:143:ILE:HG22	1.83	0.61
7:BE:22:ALA:HB1	7:BE:23:PRO:HD2	1.82	0.61
5:BF:291:ASN:HD21	7:BL:299:LEU:HD13	1.66	0.61
5:BG:373:LEU:O	5:BG:374:ARG:HB2	2.00	0.61
3:BX:101:GLY:HA3	3:Bn:118:ARG:HG3	1.83	0.61
3:Bh:54:MET:HB2	3:Bl:20:LEU:HD23	1.83	0.61
2:Bq:538:ASP:N	2:Bq:538:ASP:OD1	2.32	0.61
4:a:44:MET:HE2	4:f:25:ILE:HD13	1.83	0.61
1:m:53:MET:HE3	1:n:31:VAL:HG11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:177:SER:OG	1:n:210:ILE:O	2.19	0.61
2:1:598:LEU:HD21	3:6:8:ARG:HG2	1.83	0.60
5:A2:485:THR:OG1	5:BF:501:GLU:OE1	2.17	0.60
5:A3:18:ARG:HD2	5:A3:21:LYS:HE3	1.83	0.60
5:A3:495:ASP:N	5:A3:495:ASP:OD1	2.30	0.60
8:AB:213:TYR:HB3	8:AB:271:ARG:HH21	1.65	0.60
2:AP:450:ILE:O	2:AP:523:ASN:ND2	2.34	0.60
7:AY:22:ALA:HB1	7:AY:23:PRO:HD2	1.81	0.60
6:Ae:241:GLY:HA3	11:BS:43:GLY:HA2	1.82	0.60
6:Ae:261:ALA:HA	6:Ae:478:GLY:HA3	1.82	0.60
7:Al:29:LEU:HD21	7:Al:259:ASN:HB2	1.83	0.60
5:Av:467:ILE:HD13	5:Ax:473:ALA:HB2	1.82	0.60
2:B1:110:TYR:HE1	2:B1:171:ILE:HG21	1.66	0.60
2:B2:560:LEU:HD21	2:B2:601:ILE:HD11	1.83	0.60
3:BX:11:GLU:OE1	2:Bs:486:GLN:NE2	2.34	0.60
2:Bp:517:LEU:HG	2:Bp:522:ILE:HB	1.81	0.60
1:k:175:ILE:HG22	8:r:125:ARG:HD2	1.82	0.60
8:r:218:ALA:H	8:r:229:VAL:HB	1.66	0.60
1:0:64:GLU:HB2	1:0:79:LYS:HG2	1.83	0.60
2:1:511:GLN:NE2	2:2:5:SER:OG	2.34	0.60
5:A1:55:ASN:O	5:A1:59:GLN:NE2	2.34	0.60
2:AK:125:ILE:HG22	2:AK:149:LYS:HB2	1.83	0.60
2:AK:378:CYS:HB2	2:AK:410:PRO:HA	1.82	0.60
2:AM:220:PRO:HG2	2:AM:338:LEU:HD11	1.83	0.60
2:AO:239:VAL:HG22	2:AO:280:ALA:HB3	1.82	0.60
6:Aw:264:ARG:NH1	6:Aw:305:GLU:OE1	2.34	0.60
6:Az:360:GLU:HB3	6:Az:436:VAL:HG11	1.83	0.60
5:BA:178:ASP:HB3	5:BA:181:GLN:HG2	1.83	0.60
7:BC:127:ARG:NH2	5:BG:246:CYS:SG	2.74	0.60
5:BF:160:LYS:HE3	5:BF:236:VAL:HG22	1.83	0.60
6:BJ:345:TRP:HB2	6:BJ:348:GLU:HG2	1.82	0.60
11:BO:10:ILE:HG12	11:BO:48:THR:HB	1.83	0.60
3:Be:132:LEU:HD13	3:Be:159:LEU:HB3	1.83	0.60
2:Bq:118:VAL:HB	2:Bq:126:GLU:HB3	1.83	0.60
2:Bv:276:ASP:N	2:Bv:276:ASP:OD1	2.34	0.60
2:Bz:455:LYS:NZ	2:Bz:473:ASP:OD1	2.35	0.60
8:q:25:GLN:O	8:q:136:GLN:NE2	2.26	0.60
8:s:85:ASN:ND2	8:s:195:ASN:OD1	2.34	0.60
9:x:47:THR:HG23	9:x:61:ARG:HB2	1.83	0.60
2:1:571:ARG:NH2	2:1:587:GLU:OE1	2.34	0.60
2:2:423:VAL:HG21	2:2:513:GLN:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A3:458:LYS:NZ	5:BG:451:ASP:O	2.24	0.60
3:AF:56:ARG:NH2	3:AH:96:GLY:O	2.34	0.60
3:AG:47:GLU:OE1	3:Bg:148:ASN:ND2	2.34	0.60
6:AX:123:GLN:HE21	6:BK:95:VAL:HB	1.66	0.60
6:Af:184:GLU:HB2	6:Af:366:ARG:HH22	1.65	0.60
6:Ak:235:LEU:O	6:Ak:245:ASN:ND2	2.34	0.60
6:Ay:107:ILE:O	6:Ay:303:ASN:ND2	2.26	0.60
6:Ay:263:SER:HB3	6:Ay:476:ARG:HG2	1.83	0.60
6:Az:367:GLN:O	6:Az:487:SER:OG	2.18	0.60
2:B2:24:THR:O	2:B2:483:ASN:ND2	2.32	0.60
2:B6:90:LYS:NZ	2:B6:190:ASP:OD1	2.34	0.60
7:BE:109:ASP:HA	7:BE:112:LEU:HD12	1.84	0.60
11:BW:26:LYS:HD2	11:BW:75:LEU:HD23	1.82	0.60
3:BZ:106:GLU:O	3:BZ:109:LYS:NZ	2.33	0.60
2:Bp:455:LYS:HB2	2:Bp:470:LEU:HD13	1.84	0.60
2:Bu:209:ASP:N	2:Bu:209:ASP:OD1	2.34	0.60
2:By:264:THR:O	2:By:266:LYS:N	2.34	0.60
2:Bz:490:SER:O	2:Bz:496:ARG:NH1	2.26	0.60
4:G:62:ILE:HD12	4:R:58:LEU:HD22	1.83	0.60
1:n:231:TYR:OH	8:u:15:THR:OG1	2.18	0.60
1:0:87:ALA:HB1	1:k:27:LEU:HD23	1.82	0.60
5:A3:335:TRP:HB2	7:A6:307:LEU:HB2	1.82	0.60
6:AV:395:TYR:HD1	6:AV:396:ALA:H	1.50	0.60
7:AY:95:ILE:HD13	7:Aq:111:LEU:HD13	1.83	0.60
7:AY:121:MET:SD	7:AY:121:MET:N	2.74	0.60
5:Ax:93:SER:OG	5:BA:374:ARG:NH2	2.34	0.60
2:B3:455:LYS:HD2	2:B3:502:VAL:HG22	1.81	0.60
2:Bt:525:VAL:HG22	2:Bt:535:LEU:HD23	1.83	0.60
2:Bw:526:THR:OG1	2:Bx:366:GLU:OE2	2.16	0.60
2:By:29:LEU:O	2:By:80:VAL:HA	2.01	0.60
4:J:62:ILE:HD12	4:K:58:LEU:HD22	1.84	0.60
1:k:127:VAL:O	1:k:128:ASN:ND2	2.26	0.60
8:t:45:SER:OG	8:u:184:ARG:NH1	2.34	0.60
4:A:31:ILE:HG22	7:A6:231:VAL:HG23	1.83	0.60
5:A1:41:ARG:HH12	5:A1:64:SER:HA	1.67	0.60
6:A4:216:MET:HE1	6:A9:430:LYS:HG3	1.82	0.60
6:A9:365:ALA:HB2	6:A9:372:GLU:HA	1.83	0.60
2:AL:391:LYS:HG2	2:AL:443:ILE:HD13	1.83	0.60
6:AX:234:GLU:OE2	6:BK:476:ARG:NH2	2.34	0.60
6:Ah:268:ALA:HB1	6:Ah:290:LEU:HD13	1.84	0.60
6:Ak:131:TYR:HB3	6:Ak:250:MET:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Al:239:GLN:O	7:BE:167:ASN:ND2	2.35	0.60
6:Am:400:LEU:HD11	6:BJ:417:LEU:HD22	1.84	0.60
7:At:32:ASP:OD1	7:At:204:TYR:OH	2.20	0.60
7:At:216:SER:O	7:At:220:ASN:ND2	2.31	0.60
2:B2:596:LYS:NZ	2:B2:602:TYR:O	2.32	0.60
2:B5:18:THR:HG22	2:B5:460:LYS:HZ2	1.66	0.60
5:BA:55:ASN:H	5:BA:58:PHE:HB3	1.66	0.60
6:BK:181:PHE:HD1	6:BK:187:THR:HB	1.66	0.60
11:BS:64:GLN:O	11:BS:66:THR:N	2.35	0.60
2:Bt:42:LYS:NZ	2:Bt:43:GLN:O	2.34	0.60
2:Bu:131:ILE:HG12	2:Bu:143:ILE:HG22	1.83	0.60
2:By:256:PRO:HG2	2:By:339:THR:H	1.65	0.60
8:r:222:ASP:N	8:r:222:ASP:OD1	2.33	0.60
8:t:93:LEU:HD21	9:y:121:LYS:HB3	1.83	0.60
2:4:331:PRO:HB2	2:4:334:PHE:HB2	1.82	0.60
5:A0:354:ASP:OD1	5:A0:354:ASP:N	2.32	0.60
7:A6:163:PHE:HB2	7:A6:170:LEU:HD13	1.83	0.60
9:AC:66:PHE:H	9:z:57:GLY:HA2	1.67	0.60
2:AL:22:ASN:ND2	2:AL:76:ASN:OD1	2.34	0.60
6:Ae:299:MET:HA	6:Ae:302:ILE:HD12	1.83	0.60
6:Ai:107:ILE:O	6:Ai:303:ASN:ND2	2.28	0.60
6:Am:417:LEU:HB3	6:Am:421:TYR:HB2	1.82	0.60
7:Ar:163:PHE:HB2	7:Ar:170:LEU:HD13	1.83	0.60
2:B3:427:VAL:O	2:B3:431:THR:OG1	2.19	0.60
2:B5:206:THR:HA	2:B5:211:GLN:HE21	1.66	0.60
6:BJ:350:PHE:HB2	6:BJ:389:VAL:HG11	1.84	0.60
3:Bi:40:ALA:O	3:Bi:69:TRP:NE1	2.35	0.60
2:Bs:571:ARG:NH2	2:Bs:587:GLU:OE1	2.35	0.60
1:m:147:PHE:HB3	1:m:171:ALA:HB1	1.83	0.60
8:r:179:ASP:N	8:r:179:ASP:OD1	2.35	0.60
9:w:27:THR:O	9:w:29:ALA:N	2.34	0.60
2:1:528:THR:HB	2:AO:366:GLU:HB2	1.84	0.60
2:3:241:LYS:HB2	2:3:273:PRO:HB2	1.84	0.60
2:5:391:LYS:HG2	2:5:443:ILE:HD11	1.84	0.60
3:6:141:GLN:HG3	3:o:40:ALA:HB2	1.84	0.60
6:A4:146:PRO:HD3	6:A9:101:ARG:HD3	1.84	0.60
6:A5:287:ASP:OD1	6:A5:288:ALA:N	2.34	0.60
3:AA:54:MET:O	3:AA:55:ASN:ND2	2.34	0.60
2:AD:490:SER:O	2:AD:496:ARG:NH1	2.34	0.60
7:Ab:98:MET:HG3	6:Au:459:LEU:HD13	1.83	0.60
7:Al:12:LEU:HD12	7:Al:242:TYR:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Al:303:PRO:HG3	5:BG:289:THR:HG22	1.83	0.60
6:Am:459:LEU:HD11	6:Am:474:LYS:HE2	1.84	0.60
6:Ao:105:ASN:N	6:Ao:105:ASN:OD1	2.34	0.60
6:Ap:110:ASP:OD2	6:Ap:422:ARG:NH1	2.34	0.60
7:As:143:GLN:OE1	5:Av:263:GLN:NE2	2.35	0.60
5:Av:175:ARG:NH1	5:Ax:30:SER:OG	2.34	0.60
6:Az:279:ARG:NH2	6:Az:285:ASP:OD1	2.33	0.60
2:B5:272:GLY:O	2:B5:274:GLN:NE2	2.35	0.60
2:B7:134:VAL:HG12	2:B7:140:ILE:HG22	1.83	0.60
7:BE:214:SER:OG	7:BE:217:GLU:OE1	2.18	0.60
5:BF:373:LEU:O	5:BF:374:ARG:HB2	2.02	0.60
1:k:147:PHE:HB3	1:k:171:ALA:HB1	1.84	0.60
3:o:148:ASN:HB3	9:y:45:PRO:HB2	1.83	0.60
4:A:9:PRO:HD3	4:A:57:VAL:HG21	1.83	0.60
5:A3:67:PRO:HA	6:AV:114:VAL:HB	1.83	0.60
6:A5:131:TYR:HB3	6:A5:250:MET:HG2	1.84	0.60
3:AF:85:PHE:HB3	3:AF:137:VAL:HG21	1.83	0.60
7:AY:54:ASN:HA	7:BL:162:TRP:HE1	1.67	0.60
6:Ad:264:ARG:NH1	6:Ad:305:GLU:OE1	2.35	0.60
6:Ad:452:PRO:HA	6:Ad:477:TYR:HA	1.83	0.60
7:As:126:ASN:HD22	7:As:128:PHE:H	1.50	0.60
2:B1:272:GLY:O	2:B1:274:GLN:NE2	2.35	0.60
2:B6:57:PRO:HB3	2:B6:62:ALA:HA	1.84	0.60
6:BJ:365:ALA:HB2	6:BJ:372:GLU:HA	1.84	0.60
2:Bs:41:ILE:HD11	2:Bs:361:PHE:HB3	1.83	0.60
2:Bw:430:ARG:HH21	2:Bw:541:ALA:HB1	1.65	0.60
8:r:243:ASP:N	8:r:243:ASP:OD1	2.32	0.60
2:2:202:GLU:O	2:2:206:THR:OG1	2.19	0.60
2:3:496:ARG:NH2	2:AK:573:PHE:O	2.34	0.60
5:A1:59:GLN:OE1	6:BK:100:ARG:NH2	2.35	0.60
6:A5:309:TRP:NE1	6:AW:225:ALA:O	2.35	0.60
6:A9:110:ASP:OD1	6:A9:110:ASP:N	2.27	0.60
2:AK:40:GLN:H	2:AK:81:VAL:HG23	1.66	0.60
2:AL:617:VAL:HG22	2:AL:622:GLU:HB2	1.83	0.60
2:AM:498:GLN:HA	2:AM:534:VAL:HG12	1.84	0.60
2:AN:23:SER:OG	2:AN:74:TYR:O	2.20	0.60
6:AX:482:ASN:OD1	6:AX:483:PRO:O	2.19	0.60
6:Ac:479:ILE:HD11	6:Ac:501:PRO:HG3	1.83	0.60
6:Ah:336:ASP:HB3	6:Ah:339:ASP:HB2	1.84	0.60
6:BJ:263:SER:HB3	6:BJ:476:ARG:HG2	1.82	0.60
2:Bq:254:ILE:HG13	2:Bq:337:ILE:HB	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:58:LEU:HD22	4:h:62:ILE:HD12	1.84	0.60
1:0:61:VAL:HB	1:0:137:LEU:HB2	1.83	0.60
7:A6:25:ILE:HD12	7:A1:265:ARG:HG3	1.83	0.60
6:AV:278:LEU:HD22	6:AV:284:MET:HB2	1.83	0.60
7:Aa:222:PRO:O	7:Aa:225:ASN:ND2	2.34	0.60
7:At:112:LEU:HD21	7:At:129:TYR:HE2	1.66	0.60
2:B1:230:LEU:HD21	2:B1:285:ARG:HD2	1.84	0.60
5:BD:366:ARG:NH1	5:BD:382:GLN:OE1	2.34	0.60
11:BP:64:GLN:O	11:BP:66:THR:N	2.34	0.60
2:Bx:220:PRO:HG2	2:Bx:338:LEU:HD11	1.83	0.60
2:Bz:394:VAL:HG11	2:Bz:443:ILE:HD12	1.84	0.60
1:n:182:ASN:HA	1:n:205:ARG:HG3	1.83	0.60
5:A2:467:ILE:HD13	5:BD:473:ALA:HB2	1.84	0.59
6:A8:383:VAL:HG12	6:A8:406:THR:HG22	1.84	0.59
8:AB:71:ILE:HA	1:p:176:TYR:HA	1.83	0.59
2:AL:478:CYS:O	2:AL:555:ARG:NH1	2.35	0.59
10:AQ:344:MET:HE2	10:AQ:351:VAL:HB	1.82	0.59
10:AQ:348:TYR:HB2	10:AQ:351:VAL:HG12	1.82	0.59
6:AV:181:PHE:HD1	6:AV:187:THR:HB	1.67	0.59
6:Ai:115:GLN:NE2	6:Ai:444:MET:SD	2.74	0.59
6:Aj:459:LEU:HD11	6:Aj:474:LYS:HE2	1.84	0.59
2:B3:57:PRO:HG3	2:B3:65:PHE:HB3	1.84	0.59
2:B5:639:THR:HB	2:B6:624:VAL:HG12	1.84	0.59
6:BI:131:TYR:HB3	6:BI:250:MET:HG2	1.83	0.59
11:BS:69:ILE:O	11:BS:72:ASN:ND2	2.35	0.59
11:BV:11:LYS:HG3	11:BV:27:GLU:HG2	1.83	0.59
3:BZ:42:PRO:HG2	3:BZ:127:ILE:HD11	1.83	0.59
3:Bc:24:GLU:OE1	3:Bc:33:THR:OG1	2.18	0.59
3:Bj:24:GLU:OE1	3:Bj:33:THR:OG1	2.20	0.59
2:Bu:33:PHE:HA	2:Bu:61:THR:HG23	1.84	0.59
4:M:62:ILE:HD12	4:N:58:LEU:HD22	1.84	0.59
4:Z:47:PRO:HB2	4:j:48:THR:HG21	1.83	0.59
1:k:231:TYR:OH	8:r:15:THR:OG1	2.15	0.59
8:s:72:LEU:O	8:s:74:ARG:N	2.35	0.59
5:A1:76:ILE:HD12	5:A1:180:ARG:HB3	1.84	0.59
7:A6:193:ASP:O	7:A6:242:TYR:OH	2.19	0.59
2:AN:36:GLY:O	2:AN:82:ARG:NH1	2.35	0.59
2:AO:465:ASN:HB2	2:B5:317:LYS:HZ2	1.66	0.59
2:AP:585:ARG:NH2	2:AP:608:CYS:O	2.35	0.59
6:Ai:519:LYS:NZ	6:Am:217:GLU:OE1	2.30	0.59
6:Ak:400:LEU:HD11	6:Ao:417:LEU:HD22	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:An:100:ARG:HH21	6:An:284:MET:HE1	1.66	0.59
6:An:452:PRO:HA	6:An:477:TYR:HA	1.85	0.59
2:B2:538:ASP:O	2:B2:551:ILE:N	2.27	0.59
2:B5:394:VAL:HG11	2:B5:443:ILE:HD12	1.84	0.59
2:B5:563:ASN:ND2	2:B5:591:TYR:OH	2.33	0.59
5:BA:281:ASP:O	5:BH:278:ARG:NH2	2.35	0.59
7:BC:30:THR:HG23	7:BE:24:ILE:HD11	1.84	0.59
7:BL:159:PRO:HB3	7:BL:174:GLY:O	2.02	0.59
6:BM:235:LEU:O	6:BM:245:ASN:ND2	2.36	0.59
2:Bp:98:ASN:HB2	2:Bp:188:ILE:HD11	1.82	0.59
2:Bu:450:ILE:O	2:Bu:523:ASN:ND2	2.35	0.59
2:Bx:375:ALA:HB3	2:Bx:407:CYS:HA	1.84	0.59
4:a:62:ILE:HD12	4:f:58:LEU:HD22	1.84	0.59
8:u:230:PHE:HB3	8:u:258:ASN:HA	1.83	0.59
9:w:51:THR:HG22	9:w:59:ALA:HB2	1.83	0.59
2:3:514:ARG:NH1	2:AK:366:GLU:OE2	2.35	0.59
2:5:623:PHE:HB3	8:u:212:THR:HG22	1.84	0.59
9:AC:168:LYS:HB3	9:AC:173:ILE:HD11	1.83	0.59
3:AF:106:GLU:O	3:AF:109:LYS:NZ	2.36	0.59
3:AH:23:VAL:HG11	3:AH:39:THR:HG21	1.84	0.59
10:AT:360:TYR:OH	6:Ae:342:GLY:O	2.18	0.59
6:AZ:72:HIS:ND1	6:AZ:83:GLN:O	2.33	0.59
6:Ac:121:THR:HG22	6:Ac:260:GLU:HG3	1.84	0.59
6:Ae:268:ALA:HB1	6:Ae:290:LEU:HD13	1.83	0.59
6:Af:71:ASP:OD1	6:Af:72:HIS:ND1	2.35	0.59
6:Ai:264:ARG:NH2	6:Am:152:ALA:O	2.34	0.59
6:Aj:153:MET:HE1	6:Aj:177:ILE:HD13	1.84	0.59
6:Am:121:THR:HA	6:Am:259:ILE:O	2.03	0.59
6:An:328:LYS:NZ	6:An:333:ASP:OD2	2.33	0.59
2:B6:617:VAL:HG22	2:B6:622:GLU:HB2	1.84	0.59
5:BD:70:LYS:NZ	5:BD:215:TYR:OH	2.35	0.59
5:BG:37:ASP:N	5:BG:37:ASP:OD1	2.35	0.59
11:BV:64:GLN:O	11:BV:66:THR:N	2.35	0.59
3:Bi:85:PHE:HB3	3:Bi:137:VAL:HG21	1.84	0.59
3:Bj:72:THR:HG22	3:Bj:154:GLU:HG3	1.83	0.59
2:Bs:308:ASN:ND2	2:Bs:313:ASP:OD2	2.36	0.59
2:Bz:453:ASN:HB2	2:Bz:506:ALA:HB3	1.83	0.59
1:0:137:LEU:HB3	1:0:146:LEU:HD21	1.84	0.59
2:3:620:ARG:NH1	2:3:622:GLU:OE2	2.35	0.59
5:A0:467:ILE:HD13	5:BG:473:ALA:HB2	1.82	0.59
8:AB:15:THR:OG1	1:p:231:TYR:OH	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:18:THR:HG21	2:AD:47:GLU:HB3	1.84	0.59
2:AK:57:PRO:HA	2:AK:61:THR:HB	1.85	0.59
2:AN:98:ASN:HA	2:AN:147:THR:HG21	1.84	0.59
2:AN:545:PRO:HD3	2:AO:271:TYR:HB3	1.84	0.59
6:AW:452:PRO:HA	6:AW:477:TYR:HA	1.84	0.59
6:Ai:93:PRO:HB2	6:Am:123:GLN:HB3	1.84	0.59
6:Aj:154:PHE:O	6:Aj:248:ASN:ND2	2.35	0.59
6:Au:253:ARG:HH21	6:Au:495:ARG:HG2	1.67	0.59
5:Ax:111:LEU:HD11	5:Ax:444:ILE:HD11	1.85	0.59
2:B6:375:ALA:HB3	2:B6:407:CYS:HA	1.83	0.59
2:B6:593:GLN:NE2	3:Bk:4:ASP:OD2	2.35	0.59
2:B7:556:LEU:HD11	2:B7:601:ILE:HG23	1.83	0.59
5:BB:244:ASP:O	5:BB:247:GLY:N	2.35	0.59
3:BX:114:ARG:HG2	3:BX:126:GLU:HG3	1.85	0.59
3:Bb:43:ALA:HA	3:Be:138:GLY:HA3	1.85	0.59
3:Bb:125:LYS:NZ	3:Be:83:GLN:OE1	2.35	0.59
2:Bq:375:ALA:HB3	2:Bq:407:CYS:HA	1.84	0.59
2:Bq:514:ARG:NH1	2:Br:366:GLU:OE2	2.35	0.59
2:Bw:36:GLY:O	2:Bw:82:ARG:NH1	2.33	0.59
4:M:58:LEU:HD22	4:O:62:ILE:HD12	1.85	0.59
8:r:76:ASN:HD21	8:r:121:SER:HB2	1.66	0.59
6:A4:383:VAL:HG12	6:A4:406:THR:HG22	1.84	0.59
6:A9:268:ALA:HB1	6:A9:290:LEU:HD13	1.83	0.59
2:AD:285:ARG:HG2	2:AD:286:ASN:HD22	1.66	0.59
3:AE:56:ARG:NH2	3:AG:96:GLY:O	2.35	0.59
2:AM:163:LEU:HD11	2:AM:187:ILE:HG12	1.84	0.59
7:AY:25:ILE:HD12	7:BL:265:ARG:HG3	1.83	0.59
6:AZ:503:ILE:HG13	6:AZ:507:LEU:HD13	1.84	0.59
6:Ah:172:THR:O	6:Ah:195:GLN:NE2	2.36	0.59
2:B7:550:ARG:HB3	2:B7:553:VAL:HG12	1.83	0.59
5:BG:495:ASP:OD1	5:BG:495:ASP:N	2.34	0.59
2:Bs:33:PHE:HB2	2:Bs:82:ARG:HG3	1.84	0.59
2:Bw:617:VAL:HG22	2:Bw:622:GLU:HB2	1.84	0.59
2:By:211:GLN:OE1	2:By:329:ASN:ND2	2.36	0.59
2:Bz:109:ASN:HB2	2:Bz:177:GLY:HA2	1.84	0.59
2:4:18:THR:HG21	2:4:47:GLU:HB3	1.85	0.59
2:4:645:THR:OG1	2:AL:629:ILE:O	2.20	0.59
2:5:571:ARG:NH2	2:5:587:GLU:OE1	2.34	0.59
3:9:40:ALA:O	3:9:69:TRP:NE1	2.35	0.59
6:A4:254:ILE:HB	6:Aj:88:VAL:HA	1.84	0.59
3:AJ:114:ARG:HG2	3:AJ:126:GLU:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:197:GLU:HG3	2:AN:199:GLU:HG2	1.85	0.59
2:AO:104:SER:OG	2:AO:183:THR:OG1	2.20	0.59
6:AX:459:LEU:HD11	6:AX:474:LYS:HE2	1.84	0.59
2:B2:26:THR:HA	2:B2:77:ASP:O	2.01	0.59
2:B3:135:ASP:HB3	2:B3:139:LYS:HB2	1.85	0.59
2:B6:394:VAL:HG11	2:B6:443:ILE:HD12	1.84	0.59
5:A2:41:ARG:HG3	5:A2:183:GLN:HE21	1.68	0.59
2:AK:225:LEU:HD22	2:AK:321:GLU:HA	1.85	0.59
2:AL:455:LYS:HG3	2:AL:502:VAL:HG13	1.85	0.59
2:AN:205:MET:O	2:AN:211:GLN:NE2	2.35	0.59
6:Ac:267:LYS:HE2	6:Ac:470:VAL:HG11	1.84	0.59
6:Aj:145:HIS:HB3	6:Aj:148:TYR:HB2	1.84	0.59
6:Ak:390:ASP:HB2	6:Ak:397:ALA:HB3	1.84	0.59
2:B4:33:PHE:HB2	2:B4:82:ARG:HG3	1.84	0.59
5:BB:178:ASP:HB3	5:BB:181:GLN:HB2	1.84	0.59
6:BI:265:GLN:HB3	6:BI:474:LYS:HB3	1.84	0.59
6:BJ:133:LYS:HG2	6:BJ:249:GLU:HB2	1.83	0.59
11:BQ:60:TYR:HD1	11:BQ:64:GLN:HG2	1.68	0.59
3:Ba:39:THR:HG22	3:Ba:71:VAL:HG22	1.84	0.59
2:Bp:368:VAL:O	2:Bp:400:ARG:NH2	2.36	0.59
2:Bp:378:CYS:HB2	2:Bp:410:PRO:HA	1.83	0.59
2:Bq:571:ARG:NH2	2:Bq:587:GLU:OE1	2.35	0.59
2:Bt:645:THR:OG1	2:Bu:629:ILE:O	2.21	0.59
2:By:430:ARG:HG3	2:By:522:ILE:HD11	1.85	0.59
3:9:72:THR:HG22	3:9:154:GLU:HG2	1.84	0.59
3:AH:24:GLU:OE1	3:AH:33:THR:OG1	2.21	0.59
6:Ae:107:ILE:HA	6:Ae:412:VAL:HG21	1.83	0.59
7:As:109:ASP:OD1	7:As:132:ASN:ND2	2.31	0.59
7:As:193:ASP:O	7:As:242:TYR:OH	2.21	0.59
6:Au:121:THR:HG22	6:Au:260:GLU:HA	1.85	0.59
2:B2:308:ASN:ND2	2:B2:313:ASP:OD2	2.36	0.59
6:BM:78:ASN:ND2	11:BW:5:ARG:O	2.33	0.59
3:BY:56:ARG:NH2	3:Be:96:GLY:O	2.35	0.59
8:s:256:THR:OG1	8:s:257:SER:N	2.36	0.59
2:4:256:PRO:HG2	2:4:339:THR:H	1.68	0.59
5:A1:80:ARG:NH2	5:A1:153:ASP:OD2	2.35	0.59
3:AA:101:GLY:N	3:AF:119:ASP:O	2.36	0.59
2:AD:237:GLU:HB3	2:AD:282:ILE:HG13	1.85	0.59
2:AN:20:VAL:HG21	2:By:611:THR:HG21	1.85	0.59
2:AO:222:VAL:HG11	2:AO:236:ILE:HG21	1.85	0.59
2:AP:350:VAL:HG13	2:AP:354:ASP:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AY:87:ILE:HD13	7:AY:158:ILE:HB	1.83	0.59
6:Ae:417:LEU:HD22	6:Ay:400:LEU:HD11	1.83	0.59
2:B3:526:THR:OG1	2:B4:366:GLU:OE1	2.19	0.59
2:B6:39:PHE:HE1	2:B6:83:ALA:HA	1.67	0.59
5:BA:366:ARG:HE	5:BA:380:ILE:HD11	1.68	0.59
5:BA:467:ILE:HD13	5:BH:473:ALA:HB2	1.84	0.59
6:BJ:268:ALA:HB1	6:BJ:290:LEU:HD13	1.84	0.59
3:BY:106:GLU:O	3:BY:109:LYS:NZ	2.36	0.59
3:Bk:114:ARG:HG2	3:Bk:126:GLU:HG3	1.84	0.59
2:Bq:459:ASP:OD2	2:Bq:466:ARG:NH1	2.34	0.59
2:Br:159:GLU:O	2:Br:162:THR:N	2.36	0.59
2:Br:521:ALA:HB1	2:Br:541:ALA:HA	1.83	0.59
2:Bz:230:LEU:HD21	2:Bz:285:ARG:HD2	1.85	0.59
4:X:53:ARG:NH2	4:c:12:ASP:OD2	2.36	0.59
1:k:87:ALA:HB2	1:l:26:ILE:HG23	1.84	0.59
9:x:119:ASN:HD22	9:y:79:GLU:HB2	1.66	0.59
2:2:605:ARG:HB3	2:2:628:TYR:HD1	1.67	0.59
6:A5:117:MET:HG3	6:A5:451:ALA:HB1	1.85	0.59
8:AB:72:LEU:O	8:AB:74:ARG:N	2.36	0.59
3:AG:25:ILE:HD12	3:AG:28:LEU:HD12	1.85	0.59
2:AO:511:GLN:OE1	2:AO:514:ARG:NH2	2.36	0.59
10:AR:344:MET:HE2	10:AR:351:VAL:HB	1.85	0.59
6:Ao:481:ILE:HD11	6:Ao:501:PRO:HB3	1.83	0.59
5:Av:46:SER:HB3	5:Av:49:GLU:HB2	1.85	0.59
5:Av:97:SER:HB2	5:Ax:405:LYS:HD2	1.84	0.59
6:Az:365:ALA:HB2	6:Az:372:GLU:HA	1.84	0.59
2:B4:29:LEU:HB2	2:B4:78:LEU:HD11	1.85	0.59
6:BI:263:SER:HB3	6:BI:476:ARG:HG2	1.83	0.59
6:BJ:269:ALA:HA	6:BJ:470:VAL:HA	1.84	0.59
3:Bj:85:PHE:HB3	3:Bj:137:VAL:HG21	1.84	0.59
2:Bu:66:MET:HB3	2:Bu:468:VAL:HG11	1.85	0.59
4:c:44:MET:HE1	4:h:44:MET:HG2	1.83	0.59
2:1:368:VAL:HG23	2:1:400:ARG:HH21	1.67	0.58
5:A0:77:ASP:O	5:A0:81:ASN:ND2	2.36	0.58
6:A9:151:ASP:HB3	6:A9:154:PHE:HB2	1.85	0.58
3:AE:37:LYS:HZ1	3:AE:74:MET:HG2	1.67	0.58
3:AG:114:ARG:HG2	3:AG:126:GLU:HG3	1.84	0.58
2:AN:119:LYS:O	2:AN:167:TRP:HA	2.03	0.58
2:AO:368:VAL:O	2:AO:400:ARG:NH2	2.36	0.58
6:Au:115:GLN:NE2	6:Au:443:GLU:O	2.36	0.58
6:Aw:125:PHE:HZ	6:BI:91:ILE:HA	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:246:LYS:HB2	2:B5:250:ALA:HB2	1.84	0.58
5:BB:390:PHE:HZ	5:BB:452:SER:HB2	1.68	0.58
3:Bl:114:ARG:NH2	3:Bl:116:TYR:OH	2.30	0.58
2:Bt:235:GLU:OE2	2:Bt:261:ARG:NH2	2.36	0.58
2:Bx:202:GLU:OE1	2:Bx:203:ALA:N	2.31	0.58
4:W:9:PRO:HD3	4:W:57:VAL:HG21	1.83	0.58
3:7:140:LEU:HD11	3:7:151:GLN:HB2	1.85	0.58
5:A1:127:LEU:HD11	5:BB:496:GLU:HG3	1.85	0.58
6:A5:315:GLN:OE1	6:A5:514:ARG:NH1	2.36	0.58
2:AD:617:VAL:HG13	2:AD:622:GLU:HB2	1.84	0.58
2:AK:159:GLU:HB3	2:AK:163:LEU:HA	1.85	0.58
6:AV:95:VAL:HA	6:AZ:123:GLN:HG2	1.85	0.58
6:Ah:264:ARG:NH1	6:Ah:305:GLU:OE1	2.36	0.58
6:Ap:114:VAL:HG21	5:BF:59:GLN:HG3	1.85	0.58
7:Aq:91:ASN:O	7:Aq:93:GLY:N	2.37	0.58
7:At:29:LEU:HD21	7:At:259:ASN:HB2	1.83	0.58
2:B4:538:ASP:N	2:B4:538:ASP:OD1	2.34	0.58
2:B6:498:GLN:NE2	2:B6:531:ASP:OD1	2.36	0.58
2:Bs:576:ASN:O	2:Bs:576:ASN:ND2	2.35	0.58
4:M:10:PHE:HB3	4:M:22:ILE:HG12	1.84	0.58
4:R:9:PRO:HD3	4:R:57:VAL:HG21	1.85	0.58
8:t:99:GLN:OE1	8:t:210:ARG:NH2	2.36	0.58
2:5:617:VAL:HG13	2:5:622:GLU:HB2	1.85	0.58
3:6:86:VAL:HG12	3:6:137:VAL:HG21	1.84	0.58
3:8:89:GLN:NE2	3:8:135:THR:O	2.36	0.58
6:A5:235:LEU:O	6:A5:245:ASN:ND2	2.37	0.58
6:A5:346:ALA:HA	6:A5:349:SER:HB3	1.86	0.58
6:A9:272:ILE:HG12	5:Av:66:GLU:HG3	1.85	0.58
8:AB:91:ASN:OD1	8:AB:92:ILE:N	2.37	0.58
2:AL:134:VAL:HG12	2:AL:140:ILE:HG22	1.85	0.58
2:AM:134:VAL:HG12	2:AM:140:ILE:HG22	1.84	0.58
2:AP:256:PRO:HG2	2:AP:339:THR:H	1.68	0.58
6:AZ:345:TRP:CD1	6:AZ:346:ALA:H	2.21	0.58
6:Af:182:PHE:HB2	6:Af:184:GLU:O	2.04	0.58
7:Aq:114:MET:HE1	6:BK:474:LYS:HE3	1.84	0.58
6:Au:106:LEU:HD12	5:BH:224:ALA:HB3	1.85	0.58
6:Aw:426:ASP:OD2	6:Aw:433:TYR:OH	2.19	0.58
2:B1:22:ASN:ND2	2:B1:76:ASN:OD1	2.36	0.58
2:B4:430:ARG:HG3	2:B4:522:ILE:HD11	1.85	0.58
2:Bp:414:VAL:HG23	2:Bp:422:ALA:HB1	1.85	0.58
2:Bq:163:LEU:HD11	2:Bq:187:ILE:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bu:378:CYS:HB2	2:Bu:410:PRO:HA	1.85	0.58
2:Bx:57:PRO:HA	2:Bx:61:THR:HB	1.85	0.58
4:i:9:PRO:HD3	4:i:57:VAL:HG21	1.85	0.58
1:m:175:ILE:HG13	8:t:125:ARG:HD2	1.85	0.58
8:s:72:LEU:HD12	8:s:125:ARG:HB2	1.86	0.58
9:v:118:ASP:O	9:v:120:SER:N	2.35	0.58
2:5:18:THR:HG21	2:5:47:GLU:HB3	1.85	0.58
5:A0:208:TYR:HB3	5:A0:228:ILE:HB	1.86	0.58
5:A2:256:ARG:HH21	5:A2:372:ALA:HA	1.67	0.58
6:A4:278:LEU:HD12	6:A4:284:MET:HB2	1.85	0.58
7:A6:180:ASP:OD1	7:A6:181:LEU:N	2.35	0.58
3:AH:56:ARG:NH2	3:AJ:96:GLY:O	2.34	0.58
2:AL:118:VAL:HB	2:AL:126:GLU:HB3	1.84	0.58
2:AL:482:ASP:OD2	2:AL:483:ASN:ND2	2.36	0.58
2:AM:521:ALA:HB1	2:AM:541:ALA:HA	1.83	0.58
6:AW:190:LEU:HB3	6:AW:221:LEU:HB3	1.86	0.58
6:Aj:328:LYS:HB3	6:Aj:331:VAL:HG13	1.84	0.58
6:Ak:131:TYR:HD2	6:Ak:250:MET:HE3	1.67	0.58
6:Am:374:ASN:ND2	6:Am:439:LYS:O	2.34	0.58
5:Ax:158:PHE:HB2	5:Ax:236:VAL:HB	1.85	0.58
2:B3:414:VAL:HG23	2:B3:422:ALA:HB1	1.84	0.58
2:B6:498:GLN:HA	2:B6:534:VAL:HG12	1.84	0.58
5:BA:209:ASP:N	5:BA:209:ASP:OD1	2.36	0.58
11:BV:18:ASP:HB3	11:BV:21:LYS:HD3	1.86	0.58
2:Bt:378:CYS:HG	2:Bt:454:TYR:HH	1.46	0.58
2:Bt:417:ILE:HB	2:Bt:421:ARG:HB3	1.86	0.58
2:Bu:104:SER:OG	2:Bu:183:THR:OG1	2.21	0.58
2:Bw:653:GLU:HB2	2:Bz:16:GLN:HG3	1.84	0.58
2:4:281:ILE:HD12	2:4:295:LEU:HD12	1.86	0.58
2:5:585:ARG:NH1	9:z:167:GLU:OE2	2.36	0.58
7:A6:203:GLY:H	4:Q:31:ILE:HG22	1.67	0.58
6:A8:235:LEU:O	6:A8:245:ASN:ND2	2.35	0.58
6:Ac:131:TYR:HB3	6:Ac:250:MET:HG2	1.86	0.58
6:Ac:241:GLY:HA3	11:BW:43:GLY:HA2	1.85	0.58
2:B3:19:VAL:HG21	2:Bz:655:THR:HB	1.84	0.58
2:B3:653:GLU:HB2	2:B6:16:GLN:HG3	1.86	0.58
5:BB:160:LYS:HB3	5:BB:171:ILE:HG13	1.84	0.58
7:BC:12:LEU:HD21	7:BC:248:LYS:HG2	1.84	0.58
5:BG:61:ILE:HG12	5:BG:207:ILE:HD13	1.84	0.58
3:BZ:78:ALA:HA	3:Bo:124:THR:HB	1.84	0.58
3:Bd:19:ASN:OD1	3:Bd:19:ASN:N	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bi:125:LYS:NZ	3:Bl:83:GLN:OE1	2.36	0.58
2:By:135:ASP:HB3	2:By:139:LYS:HB2	1.85	0.58
1:l:154:PRO:HA	1:l:167:ARG:HD3	1.84	0.58
2:2:528:THR:HA	2:AP:367:SER:HA	1.86	0.58
2:3:563:ASN:ND2	2:3:591:TYR:OH	2.37	0.58
2:AO:379:ALA:HA	2:AO:411:ARG:HB2	1.86	0.58
6:Af:130:VAL:HG12	6:Af:142:GLU:HA	1.84	0.58
6:Ah:106:LEU:HD23	6:Ah:300:LEU:HD23	1.85	0.58
5:Av:278:ARG:HD2	5:BB:283:ARG:HH21	1.69	0.58
6:Az:142:GLU:HG3	6:Az:145:HIS:HB2	1.86	0.58
2:B5:455:LYS:HD3	2:B5:502:VAL:HG22	1.86	0.58
2:B6:454:TYR:HB3	2:B6:467:TRP:HD1	1.69	0.58
6:BM:202:ALA:HB1	6:BM:207:LYS:HB3	1.86	0.58
2:Bw:362:PHE:HA	2:Bw:368:VAL:HG21	1.84	0.58
2:Bx:455:LYS:HD2	2:Bx:502:VAL:HG22	1.85	0.58
4:N:9:PRO:HD3	4:N:57:VAL:HG21	1.84	0.58
8:t:26:ILE:HG13	8:t:37:ILE:HG13	1.85	0.58
7:A6:55:LYS:HD2	7:Al:173:MET:HE1	1.84	0.58
7:A6:112:LEU:HD22	6:BM:457:THR:HG21	1.85	0.58
2:AD:33:PHE:HA	2:AD:61:THR:HG23	1.84	0.58
3:AF:24:GLU:OE1	3:AF:33:THR:OG1	2.20	0.58
3:AH:17:ARG:HH21	3:Al:150:ILE:HG22	1.68	0.58
10:AU:344:MET:HE2	10:AU:351:VAL:HB	1.85	0.58
2:B5:95:ILE:HG22	2:B5:188:ILE:HG21	1.85	0.58
2:B6:470:LEU:HD23	2:B6:525:VAL:HG21	1.84	0.58
7:BE:207:VAL:HG22	4:R:31:ILE:HG12	1.86	0.58
5:BH:99:ALA:O	5:BH:411:GLN:NE2	2.36	0.58
11:BU:38:VAL:HG11	11:BU:69:ILE:HG12	1.85	0.58
2:Bq:585:ARG:NH2	2:Bq:608:CYS:O	2.36	0.58
2:Bv:82:ARG:NH2	2:Bv:227:PRO:O	2.35	0.58
2:Bz:135:ASP:HB3	2:Bz:139:LYS:HB2	1.85	0.58
4:G:9:PRO:HD3	4:G:57:VAL:HG21	1.85	0.58
4:H:23:SER:OG	4:H:26:LYS:NZ	2.33	0.58
4:M:12:ASP:HB2	4:O:52:LEU:HD21	1.86	0.58
1:l:239:ASN:OD1	1:l:239:ASN:N	2.36	0.58
3:o:22:GLN:HB2	3:o:116:TYR:HE1	1.68	0.58
8:u:8:SER:OG	8:u:12:ARG:NH1	2.36	0.58
2:1:229:GLU:N	2:1:345:SER:OG	2.35	0.58
2:2:605:ARG:HG2	2:2:607:VAL:HG23	1.85	0.58
5:A1:154:SER:OG	5:A1:155:ARG:NH1	2.37	0.58
5:A2:367:GLN:HA	5:A2:377:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:235:LEU:O	6:A7:245:ASN:ND2	2.37	0.58
6:Au:482:ASN:ND2	6:Au:483:PRO:O	2.36	0.58
6:Az:235:LEU:O	6:Az:245:ASN:ND2	2.37	0.58
2:B1:19:VAL:HG21	2:Bx:655:THR:HB	1.86	0.58
2:B4:571:ARG:NH1	2:B4:583:SER:OG	2.36	0.58
2:Bv:518:TYR:OH	2:Bv:550:ARG:NH1	2.36	0.58
2:Bz:571:ARG:NH2	2:Bz:587:GLU:OE1	2.36	0.58
5:A2:277:THR:O	5:A2:282:ARG:NH1	2.37	0.58
2:AL:470:LEU:HD23	2:AL:525:VAL:HG21	1.84	0.58
2:AO:90:LYS:HB3	2:AO:191:SER:HB3	1.85	0.58
10:AT:344:MET:HE2	10:AT:351:VAL:HB	1.84	0.58
10:AT:345:MET:HE3	10:AT:364:LYS:HG3	1.86	0.58
7:Aq:12:LEU:HD21	7:Aq:248:LYS:HG2	1.86	0.58
2:B1:264:THR:O	2:B1:266:LYS:N	2.37	0.58
2:B2:41:ILE:HD11	2:B2:361:PHE:HB3	1.86	0.58
7:BC:206:THR:HB	7:BC:227:VAL:HG23	1.86	0.58
3:Ba:64:ARG:HB2	3:Bd:93:ALA:HB1	1.86	0.58
3:Bk:46:VAL:HG22	3:Bk:64:ARG:HB3	1.84	0.58
2:Bq:89:ALA:HA	2:Bq:345:SER:HA	1.84	0.58
2:Bq:550:ARG:HB3	2:Bq:553:VAL:HG12	1.86	0.58
2:Bx:455:LYS:HG3	2:Bx:502:VAL:HG13	1.85	0.58
2:Bz:365:ARG:HA	2:Bz:400:ARG:HE	1.68	0.58
2:Bz:596:LYS:NZ	2:Bz:602:TYR:O	2.37	0.58
8:r:27:LYS:NZ	8:r:34:ASP:OD2	2.36	0.58
8:r:152:GLN:HE21	8:r:199:TYR:HB2	1.67	0.58
8:u:261:ARG:HA	8:u:271:ARG:HD3	1.86	0.58
2:1:61:THR:O	2:1:63:ASP:N	2.37	0.58
6:A4:387:ALA:HB2	6:A4:404:PHE:HB2	1.86	0.58
6:A5:265:GLN:HG2	6:A5:474:LYS:HB3	1.85	0.58
6:A5:268:ALA:HB1	6:A5:290:LEU:HD13	1.86	0.58
2:AD:92:SER:HB3	2:AD:340:LEU:HB3	1.86	0.58
2:AD:571:ARG:NH2	2:AD:587:GLU:OE1	2.34	0.58
3:AE:25:ILE:O	3:AE:27:TYR:N	2.37	0.58
3:AH:69:TRP:HB2	3:AH:159:LEU:HD23	1.86	0.58
2:AM:202:GLU:OE1	2:AM:203:ALA:N	2.36	0.58
6:Aj:106:LEU:HB3	6:Aj:303:ASN:HD22	1.68	0.58
6:Am:328:LYS:HB3	6:Am:331:VAL:HG13	1.86	0.58
6:Au:269:ALA:HA	6:Au:470:VAL:HA	1.86	0.58
2:B3:638:ILE:HD13	2:B4:568:SER:HB2	1.86	0.58
2:B7:509:THR:O	2:B7:514:ARG:NH1	2.37	0.58
5:BF:54:TYR:O	5:BF:59:GLN:NE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:190:THR:HG22	5:BF:199:VAL:HG12	1.84	0.58
2:Bt:550:ARG:HB3	2:Bt:553:VAL:HG12	1.86	0.58
2:Bu:98:ASN:HB2	2:Bu:188:ILE:HD12	1.85	0.58
2:Bv:36:GLY:O	2:Bv:82:ARG:NH1	2.37	0.58
4:V:26:LYS:HA	4:f:34:ALA:H	1.69	0.58
5:A3:80:ARG:NH2	5:A3:153:ASP:OD2	2.37	0.57
6:A9:336:ASP:HB3	6:A9:339:ASP:HB2	1.85	0.57
8:AB:181:LEU:HD22	1:p:170:THR:HG21	1.86	0.57
2:AD:451:ASP:OD1	2:AD:452:GLY:N	2.37	0.57
3:AE:125:LYS:NZ	3:AF:83:GLN:OE1	2.28	0.57
3:AF:23:VAL:HG11	3:AF:39:THR:HG21	1.86	0.57
2:AL:639:THR:HB	2:Bv:624:VAL:HG12	1.85	0.57
6:Ad:264:ARG:NH2	6:Ah:152:ALA:O	2.36	0.57
6:Ae:95:VAL:HG22	6:Ae:97:GLY:H	1.69	0.57
7:At:59:VAL:HG12	7:At:183:ILE:HG13	1.86	0.57
2:B2:378:CYS:HG	2:B2:454:TYR:HH	1.36	0.57
2:B3:490:SER:O	2:B3:496:ARG:NH1	2.35	0.57
3:Bb:72:THR:HG22	3:Bb:154:GLU:HG3	1.85	0.57
2:Br:272:GLY:O	2:Br:274:GLN:NE2	2.34	0.57
2:Bu:254:ILE:HG22	2:Bu:257:GLY:H	1.68	0.57
2:Bw:211:GLN:OE1	2:Bw:329:ASN:ND2	2.36	0.57
2:Bx:97:GLY:N	2:Bx:188:ILE:O	2.37	0.57
8:r:151:GLU:OE1	8:r:199:TYR:OH	2.21	0.57
8:r:238:VAL:HG22	8:r:239:PRO:HD2	1.86	0.57
2:1:456:TYR:HD2	2:1:504:LYS:HB3	1.67	0.57
3:6:39:THR:OG1	3:6:69:TRP:NE1	2.36	0.57
5:A0:477:ILE:HA	5:A0:481:ILE:HG23	1.84	0.57
5:A2:426:LEU:HD13	5:A2:432:ILE:HD12	1.86	0.57
2:AD:220:PRO:HG2	2:AD:338:LEU:HD11	1.85	0.57
3:AH:55:ASN:OD1	3:Bj:19:ASN:ND2	2.38	0.57
2:AK:521:ALA:HA	2:AK:539:LYS:HG2	1.86	0.57
2:AP:366:GLU:OE1	2:AP:367:SER:N	2.37	0.57
2:AP:654:LEU:HD22	2:Bp:605:ARG:HD3	1.86	0.57
6:AW:377:ILE:HG23	6:AW:435:THR:HB	1.85	0.57
6:AZ:278:LEU:HD12	6:AZ:284:MET:HB2	1.85	0.57
7:Aa:210:GLN:O	7:Aa:210:GLN:NE2	2.32	0.57
6:Ad:408:THR:HG21	6:Ad:427:GLN:HB3	1.86	0.57
6:Ae:131:TYR:HB3	6:Ae:250:MET:HG2	1.85	0.57
6:Ag:263:SER:HB3	6:Ag:476:ARG:HG3	1.85	0.57
6:Ai:131:TYR:HB3	6:Ai:250:MET:HG2	1.85	0.57
6:Ak:385:VAL:O	6:Ak:389:VAL:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aq:6:PRO:HG3	7:Aq:15:VAL:HG21	1.86	0.57
7:Ar:12:LEU:HD12	7:Ar:242:TYR:HD2	1.68	0.57
7:Ar:162:TRP:NE1	7:At:54:ASN:HA	2.19	0.57
6:Az:105:ASN:ND2	6:Az:409:THR:O	2.37	0.57
6:Az:340:ILE:HG13	6:Az:343:ALA:H	1.67	0.57
2:B1:365:ARG:NH2	2:B1:400:ARG:O	2.33	0.57
2:B3:378:CYS:SG	2:B3:454:TYR:OH	2.59	0.57
2:B4:43:GLN:NE2	2:B4:77:ASP:OD2	2.36	0.57
7:BC:87:ILE:HD13	7:BC:158:ILE:HB	1.85	0.57
6:BI:417:LEU:HB3	6:BI:421:TYR:HB2	1.85	0.57
6:BM:337:PRO:O	6:BM:342:GLY:N	2.25	0.57
3:Bb:113:VAL:HG13	3:Bb:127:ILE:HG23	1.85	0.57
3:Bd:140:LEU:HD13	3:Bd:153:PHE:HB3	1.85	0.57
3:Bh:132:LEU:HD21	3:Bh:157:LEU:HD13	1.86	0.57
3:Bo:19:ASN:OD1	3:Bo:19:ASN:N	2.28	0.57
2:Bp:235:GLU:HB3	2:Bp:284:ARG:HB2	1.85	0.57
2:Bs:521:ALA:HB1	2:Bs:541:ALA:HA	1.86	0.57
2:Bw:159:GLU:HB3	2:Bw:163:LEU:HA	1.85	0.57
2:By:645:THR:HG21	2:Bz:628:TYR:HD2	1.69	0.57
8:t:237:VAL:HG13	8:t:240:ARG:HA	1.87	0.57
2:2:394:VAL:HG11	2:2:443:ILE:HD12	1.86	0.57
2:5:654:LEU:HD23	2:AD:16:GLN:HG3	1.86	0.57
3:6:95:GLN:NE2	3:o:162:TRP:O	2.36	0.57
7:A6:245:ARG:NH2	7:Al:47:GLU:OE1	2.37	0.57
6:A7:351:LYS:NZ	6:A7:390:ASP:O	2.37	0.57
3:AJ:94:GLY:HA3	3:AJ:100:THR:HG23	1.85	0.57
7:Aa:2:SER:N	4:U:30:GLU:OE2	2.37	0.57
6:Ac:137:ALA:HB3	6:Ac:140:ALA:HB2	1.87	0.57
6:Ac:148:TYR:HD1	6:Ac:186:GLY:HA2	1.69	0.57
7:As:112:LEU:HD12	7:As:117:ILE:HG13	1.85	0.57
5:Ax:161:ILE:HD11	5:BA:30:SER:HB2	1.86	0.57
2:B6:414:VAL:HG23	2:B6:422:ALA:HB1	1.85	0.57
11:BR:39:HIS:ND1	11:BR:39:HIS:O	2.37	0.57
3:Ba:56:ARG:NH2	3:Bg:96:GLY:O	2.37	0.57
3:Bl:37:LYS:HZ1	3:Bl:74:MET:HG2	1.69	0.57
3:Bm:114:ARG:HG2	3:Bm:126:GLU:HG3	1.87	0.57
4:e:62:ILE:HD12	4:j:58:LEU:HD22	1.85	0.57
8:t:61:SER:OG	8:t:62:GLN:N	2.37	0.57
9:v:27:THR:O	9:v:29:ALA:N	2.37	0.57
2:1:454:TYR:HD2	2:1:467:TRP:HD1	1.51	0.57
6:A8:431:GLN:NE2	6:A9:217:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:254:ILE:N	2:AD:259:GLY:O	2.36	0.57
2:AD:383:LEU:HD23	2:AD:410:PRO:HG2	1.86	0.57
2:AD:450:ILE:O	2:AD:523:ASN:ND2	2.38	0.57
2:B6:41:ILE:HD11	2:B6:361:PHE:HB3	1.86	0.57
2:B6:521:ALA:HA	2:B6:539:LYS:HE3	1.84	0.57
3:Bd:24:GLU:OE1	3:Bd:33:THR:OG1	2.19	0.57
2:Bu:159:GLU:OE1	2:Bu:167:TRP:NE1	2.37	0.57
2:Bx:596:LYS:NZ	2:Bx:602:TYR:O	2.37	0.57
2:By:57:PRO:HB2	2:By:62:ALA:HA	1.87	0.57
2:By:57:PRO:HA	2:By:61:THR:HB	1.86	0.57
4:j:10:PHE:O	4:j:54:ASN:ND2	2.33	0.57
8:u:24:ILE:HG21	8:u:133:ILE:HG23	1.86	0.57
2:3:92:SER:HB3	2:3:340:LEU:HB3	1.87	0.57
3:6:56:ARG:HG3	3:8:99:ILE:HG22	1.85	0.57
5:A2:132:ASP:O	5:A2:136:HIS:ND1	2.37	0.57
5:A3:115:LYS:NZ	5:A3:443:ASN:OD1	2.36	0.57
6:A8:231:SER:HB3	6:AW:71:ASP:HB3	1.86	0.57
3:AE:55:ASN:OD1	3:Ba:19:ASN:ND2	2.37	0.57
3:AG:25:ILE:O	3:AG:27:TYR:N	2.37	0.57
2:AK:655:THR:HB	2:AL:19:VAL:HG21	1.86	0.57
2:AN:470:LEU:HD23	2:AN:525:VAL:HG21	1.86	0.57
6:AX:260:GLU:OE1	6:AX:261:ALA:N	2.36	0.57
7:Ab:12:LEU:HD12	7:Ab:242:TYR:HD2	1.70	0.57
7:Aq:308:VAL:HG12	5:BD:332:GLU:HG2	1.86	0.57
6:Az:336:ASP:HB3	6:Az:339:ASP:HB2	1.85	0.57
2:B1:16:GLN:HE22	2:B1:460:LYS:HB2	1.69	0.57
2:B3:331:PRO:HB2	2:B3:334:PHE:HB2	1.85	0.57
5:BB:376:PRO:HG2	5:BB:379:ARG:HG3	1.85	0.57
5:BD:111:LEU:HD11	5:BD:444:ILE:HD11	1.87	0.57
7:BE:12:LEU:HD12	7:BE:242:TYR:HD2	1.69	0.57
6:BM:318:LYS:NZ	6:BM:339:ASP:OD1	2.37	0.57
11:BP:72:ASN:HA	11:BP:75:LEU:HG	1.85	0.57
3:Bf:72:THR:HG22	3:Bf:154:GLU:HG3	1.87	0.57
3:Bh:56:ARG:NH2	3:Bn:96:GLY:O	2.36	0.57
2:Bv:378:CYS:HB2	2:Bv:410:PRO:HA	1.86	0.57
1:m:223:GLN:NE2	1:n:69:ASP:OD1	2.38	0.57
9:z:117:LEU:HD12	9:z:121:LYS:HD2	1.85	0.57
1:0:26:ILE:HG23	1:p:87:ALA:HB2	1.86	0.57
5:A0:7:SER:O	5:A0:9:PHE:N	2.37	0.57
6:Ag:131:TYR:HD2	6:Ag:250:MET:HE3	1.69	0.57
6:Ak:304:ARG:NH2	6:Ak:308:ASP:OD1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ak:346:ALA:HA	6:Ak:349:SER:HB3	1.87	0.57
7:BC:210:GLN:HA	7:BC:227:VAL:HG13	1.86	0.57
6:BJ:235:LEU:O	6:BJ:245:ASN:ND2	2.37	0.57
3:BY:96:GLY:O	3:Bk:56:ARG:NH2	2.37	0.57
3:Bb:25:ILE:HD12	3:Bb:28:LEU:HD12	1.86	0.57
2:Bq:526:THR:OG1	2:Bq:527:GLY:N	2.36	0.57
2:Bt:118:VAL:HB	2:Bt:126:GLU:HB3	1.86	0.57
2:Bu:373:PHE:HB2	2:Bu:405:VAL:HG22	1.86	0.57
2:Bx:406:LEU:HD13	2:Bx:475:ALA:HB2	1.87	0.57
2:By:417:ILE:HD13	2:By:417:ILE:H	1.69	0.57
4:K:62:ILE:HD12	4:L:58:LEU:HD22	1.86	0.57
1:p:101:SER:O	8:q:180:ASN:ND2	2.37	0.57
3:8:70:THR:HG22	3:8:156:THR:HG22	1.86	0.57
4:A:48:THR:HG21	4:F:47:PRO:HB2	1.86	0.57
5:A2:34:PRO:HG3	5:BF:175:ARG:HE	1.69	0.57
5:A3:111:LEU:HD11	5:A3:444:ILE:HD11	1.87	0.57
9:AC:91:MET:HE1	9:AC:138:LEU:HB2	1.87	0.57
2:AD:272:GLY:O	2:AD:274:GLN:NE2	2.38	0.57
2:AD:511:GLN:OE1	2:AD:514:ARG:NH2	2.38	0.57
3:AJ:14:ASP:OD1	3:AJ:17:ARG:NH2	2.38	0.57
6:AW:356:GLN:NE2	6:AW:360:GLU:OE2	2.38	0.57
7:Aa:22:ALA:HB1	7:Aa:23:PRO:HD2	1.86	0.57
7:Ab:99:ASP:OD2	6:Au:267:LYS:NZ	2.38	0.57
6:Ad:333:ASP:HB3	6:Ad:336:ASP:HB2	1.87	0.57
6:Ai:318:LYS:NZ	6:Ai:356:GLN:OE1	2.37	0.57
6:Ak:265:GLN:HG3	6:Ao:247:TRP:HE1	1.69	0.57
7:At:60:PHE:HB2	7:At:182:ILE:HG13	1.86	0.57
2:B1:629:ILE:O	2:Bz:645:THR:OG1	2.22	0.57
2:B3:154:ALA:HA	2:B3:157:VAL:HG22	1.86	0.57
6:BM:153:MET:HE1	6:BM:177:ILE:HD13	1.87	0.57
2:Bq:166:ASN:OD1	2:Bq:166:ASN:N	2.37	0.57
2:Bt:135:ASP:HB3	2:Bt:139:LYS:HB2	1.86	0.57
2:Bw:154:ALA:HA	2:Bw:157:VAL:HG22	1.86	0.57
1:m:233:GLU:HG3	1:m:234:PRO:HD2	1.85	0.57
8:s:48:HIS:ND1	8:t:182:SER:O	2.37	0.57
1:0:77:LYS:HE2	8:q:29:GLN:HB3	1.85	0.57
2:4:102:THR:HB	2:4:183:THR:HB	1.86	0.57
5:A0:211:ALA:HA	5:A0:224:ALA:H	1.70	0.57
2:AD:32:LYS:NZ	2:AD:60:GLU:OE2	2.34	0.57
2:AD:595:ILE:HG22	2:AD:600:GLY:HA3	1.86	0.57
2:AL:607:VAL:HB	2:AL:626:THR:HG23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AU:332:SER:OG	10:AU:338:ARG:NH1	2.37	0.57
6:AV:465:LYS:HB3	6:Au:237:GLU:HB3	1.87	0.57
6:Am:117:MET:HE1	6:Am:261:ALA:HB2	1.85	0.57
2:B3:232:ASP:OD2	2:B3:342:GLY:N	2.36	0.57
2:B6:102:THR:HB	2:B6:183:THR:HB	1.86	0.57
5:BB:497:GLU:O	5:BB:501:GLU:HG2	2.04	0.57
11:BW:64:GLN:O	11:BW:66:THR:N	2.37	0.57
3:Ba:85:PHE:HB3	3:Ba:137:VAL:HG21	1.86	0.57
3:Ba:114:ARG:HG2	3:Ba:126:GLU:HG3	1.86	0.57
2:Bs:33:PHE:HA	2:Bs:61:THR:HG23	1.85	0.57
2:Bt:378:CYS:SG	2:Bt:454:TYR:OH	2.58	0.57
2:Bv:454:TYR:HB3	2:Bv:467:TRP:HD1	1.68	0.57
2:Bx:33:PHE:HA	2:Bx:61:THR:HG23	1.86	0.57
8:t:91:ASN:OD1	8:t:92:ILE:N	2.37	0.57
9:x:25:ASN:OD1	9:x:25:ASN:N	2.37	0.57
9:z:50:VAL:HG13	9:z:55:GLY:HA2	1.87	0.57
2:3:59:ALA:HB2	2:AK:299:ARG:HH22	1.70	0.57
3:7:138:GLY:HA3	3:7:153:PHE:HB2	1.87	0.57
5:A0:496:GLU:OE1	5:BH:124:ASN:ND2	2.38	0.57
2:AD:459:ASP:OD2	2:AD:462:ASN:N	2.36	0.57
2:AO:612:ASN:HB3	2:AO:624:VAL:HG23	1.87	0.57
2:AP:454:TYR:HB3	2:AP:467:TRP:HD1	1.69	0.57
7:AY:4:TYR:HE2	7:AY:19:ARG:HD2	1.70	0.57
7:AY:51:ASP:OD2	7:BL:166:ALA:N	2.38	0.57
6:Ae:230:THR:HB	6:Au:71:ASP:HB2	1.86	0.57
7:Al:265:ARG:NH1	1:n:49:GLU:OE2	2.37	0.57
6:An:481:ILE:HD11	6:An:501:PRO:HB3	1.86	0.57
6:Ap:247:TRP:HE3	6:BI:267:LYS:HD3	1.70	0.57
6:Ap:383:VAL:HG12	6:Ap:406:THR:HG22	1.86	0.57
7:Ar:22:ALA:HB1	7:Ar:23:PRO:HD2	1.87	0.57
5:Av:256:ARG:NH1	5:BB:89:ASP:OD2	2.36	0.57
5:Av:495:ASP:OD1	5:Av:495:ASP:N	2.23	0.57
6:Aw:245:ASN:O	6:Aw:247:TRP:N	2.38	0.57
2:B1:34:GLN:OE1	2:B1:58:THR:OG1	2.23	0.57
2:B4:254:ILE:HG22	2:B4:257:GLY:H	1.68	0.57
2:B4:593:GLN:NE2	3:Bi:4:ASP:OD2	2.37	0.57
6:BI:459:LEU:HD11	6:BI:474:LYS:HE2	1.86	0.57
6:BJ:181:PHE:HD1	6:BJ:187:THR:HG23	1.69	0.57
6:BK:459:LEU:HD11	6:BK:474:LYS:HE2	1.86	0.57
3:BX:28:LEU:HD22	3:BX:84:LYS:HB3	1.86	0.57
2:Bu:596:LYS:NZ	2:Bu:602:TYR:O	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:27:ASN:ND2	4:j:35:ASP:OD1	2.37	0.57
9:w:42:ILE:HB	9:w:66:PHE:HE1	1.68	0.57
2:1:131:ILE:HD13	2:1:140:ILE:HG21	1.87	0.57
6:A8:252:PHE:N	6:Au:67:GLU:OE2	2.29	0.57
3:AF:39:THR:HG22	3:AF:71:VAL:HG22	1.86	0.57
3:AH:113:VAL:HG13	3:AH:127:ILE:HG23	1.87	0.57
2:AL:490:SER:O	2:AL:496:ARG:NH1	2.38	0.57
2:AM:109:ASN:H	2:AM:137:ASP:HB2	1.68	0.57
2:AM:264:THR:O	2:AM:266:LYS:N	2.38	0.57
2:AM:494:TYR:CZ	2:By:569:LYS:HD3	2.40	0.57
2:AN:478:CYS:O	2:AN:555:ARG:NH1	2.38	0.57
2:AP:119:LYS:HG2	2:AP:124:ASP:HA	1.85	0.57
2:AP:571:ARG:NH2	2:AP:587:GLU:OE1	2.37	0.57
6:AV:105:ASN:HB2	6:AV:412:VAL:HG23	1.86	0.57
7:Aa:13:LYS:HG3	7:Aa:34:ILE:HG21	1.86	0.57
6:Af:381:ASN:HB3	6:Af:521:ILE:HG21	1.87	0.57
6:Aj:452:PRO:HA	6:Aj:477:TYR:HA	1.86	0.57
6:Am:79:ILE:HG23	6:BJ:121:THR:HB	1.87	0.57
6:Ao:107:ILE:O	6:Ao:109:PHE:N	2.38	0.57
6:Au:171:GLN:OE1	6:Au:195:GLN:NE2	2.38	0.57
5:Av:293:PRO:O	5:Av:295:ARG:N	2.37	0.57
6:Az:351:LYS:NZ	6:Az:390:ASP:O	2.37	0.57
2:B2:131:ILE:HG12	2:B2:143:ILE:HG22	1.86	0.57
2:B4:121:VAL:HG22	2:B4:166:ASN:HB3	1.86	0.57
2:B4:378:CYS:SG	2:B4:454:TYR:OH	2.62	0.57
2:B6:217:TYR:HB2	2:B6:219:ILE:HD12	1.87	0.57
7:BC:132:ASN:ND2	5:BG:245:CYS:SG	2.70	0.57
7:BE:163:PHE:HB2	7:BE:170:LEU:HD13	1.87	0.57
5:BG:181:GLN:HG3	5:BG:209:ASP:HB2	1.87	0.57
5:BG:244:ASP:HB2	5:BG:251:ILE:HD13	1.87	0.57
3:Bf:25:ILE:HG23	3:Bf:111:ALA:HB2	1.86	0.57
2:Bp:244:TYR:O	2:Bp:266:LYS:NZ	2.28	0.57
2:Bx:90:LYS:NZ	2:Bx:190:ASP:OD1	2.32	0.57
1:m:176:TYR:HE2	1:m:179:GLU:HG3	1.70	0.57
1:m:198:GLU:O	1:m:205:ARG:NH2	2.38	0.57
8:s:45:SER:OG	8:t:184:ARG:NH1	2.37	0.57
1:0:57:GLU:HA	1:0:87:ALA:HA	1.87	0.56
5:A1:175:ARG:NH1	5:BB:32:THR:O	2.37	0.56
6:A5:95:VAL:HG22	6:A5:97:GLY:H	1.70	0.56
6:A9:278:LEU:HD22	6:A9:284:MET:HB2	1.87	0.56
3:AF:72:THR:HG22	3:AF:154:GLU:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:72:THR:HG22	3:AJ:154:GLU:HG3	1.86	0.56
6:Ae:142:GLU:HG3	6:Ae:145:HIS:HB2	1.86	0.56
3:BX:56:ARG:NH2	3:Bd:96:GLY:O	2.38	0.56
3:BY:23:VAL:HG11	3:BY:39:THR:HG21	1.87	0.56
3:BZ:22:GLN:NE2	3:Bo:1:MET:SD	2.77	0.56
3:Ba:19:ASN:OD1	3:Ba:19:ASN:N	2.36	0.56
3:Bb:57:LYS:HE2	3:Bi:147:ASN:HD21	1.70	0.56
3:Bb:114:ARG:HG2	3:Bb:126:GLU:HG3	1.87	0.56
3:Bl:113:VAL:HG13	3:Bl:127:ILE:HG23	1.87	0.56
2:Br:557:PHE:HB3	2:Br:561:LYS:HZ3	1.70	0.56
2:Bx:417:ILE:H	2:Bx:417:ILE:HD13	1.70	0.56
4:J:9:PRO:HD3	4:J:57:VAL:HG21	1.86	0.56
4:V:12:ASP:OD2	4:f:53:ARG:NH2	2.38	0.56
1:n:87:ALA:HB1	1:p:27:LEU:HD23	1.86	0.56
2:2:133:GLU:HB2	2:2:142:LYS:HB2	1.87	0.56
2:4:455:LYS:NZ	2:4:473:ASP:OD2	2.30	0.56
6:A5:127:LEU:HD11	6:A5:252:PHE:HB2	1.87	0.56
6:A9:147:MET:SD	6:A9:487:SER:OG	2.60	0.56
2:AK:643:VAL:HG13	2:AL:14:THR:HG22	1.86	0.56
2:AO:202:GLU:OE1	2:AO:203:ALA:N	2.37	0.56
2:AP:163:LEU:HD11	2:AP:187:ILE:HG12	1.87	0.56
6:AX:68:ILE:HD12	6:Af:235:LEU:HD21	1.87	0.56
6:AX:154:PHE:O	6:AX:248:ASN:ND2	2.28	0.56
7:AY:13:LYS:HG3	7:AY:34:ILE:HG21	1.86	0.56
7:Ab:91:ASN:ND2	7:Ab:180:ASP:OD2	2.39	0.56
7:Ab:163:PHE:HB2	7:Ab:170:LEU:HD13	1.87	0.56
6:Ac:340:ILE:HB	6:Ac:343:ALA:HB3	1.87	0.56
6:Ap:459:LEU:HB3	6:BM:467:PHE:CG	2.40	0.56
6:Au:372:GLU:OE1	6:Au:420:LYS:NZ	2.38	0.56
2:B2:206:THR:HA	2:B2:211:GLN:HE21	1.70	0.56
2:B4:159:GLU:HB3	2:B4:163:LEU:HA	1.87	0.56
2:B5:514:ARG:NH1	2:B6:366:GLU:OE2	2.38	0.56
2:B7:23:SER:OG	2:B7:74:TYR:O	2.22	0.56
5:BA:97:SER:HB2	5:BH:405:LYS:HD2	1.86	0.56
3:BX:140:LEU:HD23	3:Bm:41:LEU:HD23	1.87	0.56
3:BY:61:ALA:HB3	3:BZ:118:ARG:HH12	1.70	0.56
3:Bg:8:ARG:HD2	3:Bj:34:PHE:HE2	1.70	0.56
3:Bh:58:ILE:HD11	3:Bi:6:VAL:HG21	1.87	0.56
2:Bu:571:ARG:NH1	2:Bu:583:SER:OG	2.34	0.56
2:Bz:494:TYR:HH	2:Bz:536:TYR:HH	1.40	0.56
1:k:11:LYS:HG3	1:k:15:ARG:HH12	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:164:ASN:ND2	1:l:164:ASN:O	2.35	0.56
1:m:87:ALA:HB1	1:n:27:LEU:HD23	1.88	0.56
8:t:238:VAL:HG22	8:t:239:PRO:HD2	1.87	0.56
2:3:44:VAL:HG11	2:3:50:LEU:HB2	1.86	0.56
2:3:498:GLN:HB3	2:3:534:VAL:HG12	1.86	0.56
2:5:567:SER:O	2:5:571:ARG:HG2	2.05	0.56
3:9:148:ASN:HB3	9:w:45:PRO:HB2	1.87	0.56
5:A0:236:VAL:HG21	5:A0:421:PRO:HG3	1.87	0.56
5:A2:282:ARG:NH2	5:BF:328:MET:O	2.38	0.56
5:A2:451:ASP:O	5:BD:458:LYS:NZ	2.26	0.56
5:A3:198:ILE:HG21	5:BG:8:LEU:HD11	1.85	0.56
5:A3:432:ILE:HG23	5:A3:436:GLU:HB2	1.87	0.56
6:A4:247:TRP:HH2	7:As:98:MET:HG2	1.70	0.56
6:A4:442:ASN:OD1	6:A4:443:GLU:N	2.39	0.56
6:A9:105:ASN:HB2	6:A9:412:VAL:HG23	1.87	0.56
6:A9:279:ARG:HH21	5:Av:227:LYS:HG3	1.70	0.56
3:AA:21:PHE:HZ	3:AA:38:ALA:HA	1.69	0.56
3:AF:54:MET:HE3	3:Bd:20:LEU:HA	1.87	0.56
2:AN:498:GLN:HA	2:AN:534:VAL:HG12	1.87	0.56
10:AR:329:ASP:O	10:AR:338:ARG:NH2	2.39	0.56
6:AW:131:TYR:HB3	6:AW:250:MET:HG2	1.88	0.56
6:AX:119:SER:OG	6:AX:121:THR:O	2.24	0.56
7:AY:111:LEU:HD21	6:Ao:462:SER:HB2	1.87	0.56
7:Aa:111:LEU:HD22	7:Aa:137:ASP:HB3	1.88	0.56
7:Aa:248:LYS:O	7:Aa:252:THR:OG1	2.23	0.56
7:Ab:13:LYS:HG3	7:Ab:34:ILE:HG21	1.87	0.56
6:Ac:145:HIS:ND1	6:Ac:146:PRO:O	2.34	0.56
6:Ad:430:LYS:HE2	6:Ah:188:VAL:HG22	1.87	0.56
6:Aj:235:LEU:O	6:Aj:245:ASN:ND2	2.39	0.56
6:Ak:350:PHE:HB3	6:Ak:389:VAL:HG12	1.87	0.56
6:An:83:GLN:NE2	6:An:84:THR:O	2.37	0.56
6:Ao:387:ALA:HB2	6:Ao:404:PHE:HB2	1.87	0.56
6:Au:356:GLN:NE2	6:Au:360:GLU:OE2	2.38	0.56
5:Ax:267:LEU:HD12	5:Ax:365:PHE:HD2	1.71	0.56
2:B2:20:VAL:HG21	2:B2:46:ASN:HD21	1.70	0.56
2:B4:312:ASP:N	2:B4:312:ASP:OD1	2.37	0.56
2:B6:117:THR:HG23	2:B6:127:THR:HG22	1.87	0.56
2:B6:147:THR:HG22	2:B6:150:ILE:HD12	1.86	0.56
7:BC:33:GLN:HE22	7:BC:262:ILE:HD11	1.70	0.56
7:BC:163:PHE:HA	7:BC:170:LEU:HA	1.88	0.56
5:BF:150:TRP:HD1	5:BF:156:ILE:HG22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BK:482:ASN:ND2	6:BK:483:PRO:O	2.38	0.56
11:BO:38:VAL:HG11	11:BO:69:ILE:HG12	1.86	0.56
3:BZ:147:ASN:ND2	3:Bn:63:ASP:OD2	2.38	0.56
3:Bg:40:ALA:O	3:Bg:69:TRP:NE1	2.33	0.56
2:Br:118:VAL:HB	2:Br:126:GLU:HB3	1.86	0.56
2:Bt:592:LEU:HD23	2:Bt:604:TYR:HB2	1.86	0.56
2:Bu:33:PHE:HB2	2:Bu:82:ARG:HG3	1.87	0.56
2:Bv:92:SER:HB3	2:Bv:340:LEU:HB3	1.88	0.56
2:Bv:609:ASP:OD1	2:Bv:609:ASP:N	2.38	0.56
2:Bw:90:LYS:NZ	2:Bw:190:ASP:OD1	2.38	0.56
2:By:383:LEU:HD22	2:By:439:ASN:HD22	1.71	0.56
4:I:52:LEU:HD21	4:T:12:ASP:HB2	1.86	0.56
1:l:63:ARG:HH22	8:s:125:ARG:HH22	1.53	0.56
1:p:151:TRP:HZ2	8:u:59:ILE:HD12	1.70	0.56
8:q:216:PHE:O	8:q:217:HIS:ND1	2.38	0.56
8:u:238:VAL:HG22	8:u:239:PRO:HD2	1.86	0.56
8:u:248:ASP:N	8:u:248:ASP:OD1	2.38	0.56
2:5:531:ASP:OD1	2:5:532:GLY:N	2.39	0.56
2:AD:241:LYS:HB2	2:AD:273:PRO:HB2	1.86	0.56
2:AD:453:ASN:ND2	2:AD:454:TYR:O	2.38	0.56
2:AL:638:ILE:HG12	2:Bv:623:PHE:HB3	1.86	0.56
2:AP:368:VAL:O	2:AP:400:ARG:NH2	2.39	0.56
6:AX:343:ALA:HB1	6:AX:348:GLU:HG3	1.88	0.56
6:Ao:257:GLN:NE2	6:Ao:481:ILE:O	2.38	0.56
6:Ap:260:GLU:OE1	6:Ap:261:ALA:N	2.38	0.56
7:Aq:162:TRP:HE1	7:As:54:ASN:HA	1.71	0.56
6:Au:452:PRO:HA	6:Au:477:TYR:HA	1.88	0.56
6:Aw:351:LYS:NZ	6:Aw:390:ASP:O	2.38	0.56
6:Ay:131:TYR:HD2	6:Ay:250:MET:HE3	1.71	0.56
2:B1:28:ALA:HB2	2:B1:370:VAL:HG21	1.85	0.56
2:B2:454:TYR:HB3	2:B2:467:TRP:HD1	1.70	0.56
2:B5:119:LYS:NZ	2:B5:124:ASP:OD1	2.36	0.56
2:B5:159:GLU:HB3	2:B5:163:LEU:HA	1.87	0.56
2:B6:351:THR:HG23	2:B6:354:ASP:H	1.70	0.56
6:BM:154:PHE:O	6:BM:248:ASN:ND2	2.37	0.56
3:Bd:41:LEU:H	3:Bd:41:LEU:HD12	1.70	0.56
3:Bf:37:LYS:HZ2	3:Bf:74:MET:HG2	1.70	0.56
3:Bg:59:ASN:ND2	3:Bj:159:LEU:O	2.38	0.56
2:Br:42:LYS:NZ	2:Br:43:GLN:O	2.32	0.56
2:Bt:637:TYR:HB2	2:Bu:622:GLU:HG2	1.88	0.56
1:m:62:PRO:HG3	1:m:84:TRP:HZ3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:383:LEU:HD13	2:2:439:ASN:HB2	1.86	0.56
5:A0:129:GLU:OE1	5:A0:425:ASN:ND2	2.38	0.56
5:A2:473:ALA:HB2	5:BF:467:ILE:HD13	1.88	0.56
6:A8:267:LYS:HD3	6:A9:247:TRP:CD2	2.40	0.56
2:AD:455:LYS:HE3	2:AD:457:GLN:HB2	1.88	0.56
2:AK:585:ARG:HH21	2:AK:609:ASP:HB3	1.70	0.56
6:Ac:336:ASP:HB3	6:Ac:339:ASP:HB2	1.87	0.56
7:Ar:304:PHE:HZ	5:BA:301:MET:HE2	1.70	0.56
7:At:12:LEU:HD21	7:At:248:LYS:HG2	1.86	0.56
6:Au:123:GLN:HG3	6:BJ:93:PRO:HB2	1.86	0.56
2:B1:571:ARG:NH2	2:B1:587:GLU:OE1	2.39	0.56
2:B3:130:LYS:HZ3	2:B3:132:THR:HG22	1.70	0.56
7:BE:138:LEU:HB3	5:BG:273:ILE:HD11	1.87	0.56
2:Bt:514:ARG:NH1	2:Bu:366:GLU:OE2	2.39	0.56
5:A1:464:GLU:HG3	5:BB:469:MET:HE2	1.87	0.56
5:A2:45:VAL:HG12	5:A2:46:SER:H	1.71	0.56
6:A8:130:VAL:HG12	6:A8:142:GLU:HA	1.88	0.56
3:AG:4:ASP:OD2	2:AM:593:GLN:NE2	2.38	0.56
3:AH:137:VAL:HB	3:AH:155:VAL:HG13	1.88	0.56
2:AP:236:ILE:HD11	2:AP:323:ILE:HG21	1.86	0.56
7:AY:114:MET:HB3	7:BL:148:MET:HE1	1.88	0.56
6:Ag:322:THR:OG1	6:Ag:514:ARG:NH2	2.38	0.56
6:Ah:71:ASP:OD1	6:Ah:72:HIS:N	2.39	0.56
7:At:13:LYS:HG3	7:At:34:ILE:HG21	1.86	0.56
6:Az:268:ALA:HB1	6:Az:290:LEU:HD13	1.87	0.56
2:B1:455:LYS:NZ	2:B1:457:GLN:OE1	2.38	0.56
2:B1:455:LYS:HG3	2:B1:502:VAL:HG13	1.88	0.56
2:B2:639:THR:HB	2:B3:624:VAL:HG12	1.87	0.56
5:BA:176:ARG:O	5:BH:35:LYS:NZ	2.37	0.56
7:BE:20:LEU:HD21	7:BE:256:LYS:HB2	1.88	0.56
5:BF:111:LEU:HD11	5:BF:444:ILE:HD11	1.87	0.56
5:BG:466:ARG:HD2	5:BG:490:ILE:O	2.06	0.56
6:BI:456:LEU:H	6:BI:475:THR:HB	1.69	0.56
3:Bc:72:THR:HG22	3:Bc:154:GLU:HG3	1.87	0.56
3:Bj:125:LYS:NZ	3:Bm:83:GLN:OE1	2.39	0.56
2:Bp:198:ILE:HG23	2:Bp:324:PHE:HE2	1.70	0.56
2:Br:22:ASN:ND2	2:Br:76:ASN:OD1	2.38	0.56
2:Bw:463:ASP:OD1	2:Bx:317:LYS:NZ	2.39	0.56
2:1:296:SER:N	2:1:309:ILE:O	2.35	0.56
2:4:510:ARG:HG2	2:4:511:GLN:H	1.70	0.56
6:A4:279:ARG:NH2	6:A4:285:ASP:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:383:VAL:HG21	6:A5:425:ILE:HG12	1.86	0.56
6:A9:204:ASP:OD1	6:A9:205:ALA:N	2.39	0.56
3:AA:74:MET:HA	3:AA:152:THR:HG22	1.88	0.56
2:AD:211:GLN:OE1	2:AD:329:ASN:ND2	2.39	0.56
2:AK:526:THR:OG1	2:Bs:366:GLU:OE2	2.24	0.56
6:AV:414:ALA:HB3	6:AV:423:VAL:HG13	1.87	0.56
6:Ak:454:VAL:HG22	6:Ak:476:ARG:HB3	1.86	0.56
6:Ak:484:PHE:O	6:Ak:487:SER:OG	2.24	0.56
2:B6:102:THR:N	2:B6:183:THR:O	2.38	0.56
2:B6:135:ASP:HB3	2:B6:139:LYS:HB2	1.88	0.56
11:BN:60:TYR:HD1	11:BN:64:GLN:HG2	1.70	0.56
3:Bi:114:ARG:HG2	3:Bi:126:GLU:HG3	1.88	0.56
2:Bs:617:VAL:HG22	2:Bs:622:GLU:HB2	1.87	0.56
9:y:27:THR:O	9:y:29:ALA:N	2.38	0.56
6:A4:125:PHE:HZ	6:Aj:91:ILE:HA	1.70	0.56
6:A8:110:ASP:OD2	6:A8:422:ARG:NH1	2.39	0.56
3:AG:1:MET:SD	3:AH:22:GLN:NE2	2.78	0.56
7:AY:54:ASN:HA	7:BL:162:TRP:NE1	2.21	0.56
7:Aa:6:PRO:HG3	7:Aa:15:VAL:HG21	1.87	0.56
6:Am:345:TRP:HH2	6:BJ:351:LYS:HD2	1.69	0.56
6:An:343:ALA:HB1	6:An:348:GLU:HG3	1.87	0.56
7:Aq:210:GLN:OE1	7:Aq:218:ARG:NH2	2.35	0.56
2:B2:32:LYS:HD2	2:B2:355:LEU:HD21	1.88	0.56
2:B4:247:GLY:O	2:B4:263:SER:OG	2.24	0.56
2:B4:417:ILE:HG22	2:B4:418:PRO:HD2	1.87	0.56
2:B6:11:LYS:HG2	2:B6:13:THR:HG23	1.88	0.56
3:Bg:56:ARG:NH2	3:Bm:96:GLY:O	2.39	0.56
3:Bh:19:ASN:OD1	3:Bh:19:ASN:N	2.35	0.56
3:Bi:39:THR:HG22	3:Bi:71:VAL:HG13	1.88	0.56
3:Bj:83:GLN:HA	3:Bj:86:VAL:HG22	1.87	0.56
3:Bo:90:SER:OG	3:Bo:95:GLN:NE2	2.27	0.56
2:Bv:560:LEU:HD21	2:Bv:601:ILE:HD11	1.88	0.56
2:Bw:467:TRP:HH2	2:Bx:199:GLU:HB2	1.70	0.56
4:N:62:ILE:HD12	4:O:58:LEU:HD22	1.88	0.56
1:p:177:SER:OG	1:p:210:ILE:O	2.24	0.56
2:2:87:ASP:N	2:2:87:ASP:OD1	2.38	0.56
2:3:91:ASN:N	2:3:91:ASN:OD1	2.39	0.56
2:3:417:ILE:H	2:3:417:ILE:HD13	1.70	0.56
2:4:473:ASP:OD1	2:4:473:ASP:N	2.39	0.56
5:A0:434:GLU:O	5:A0:438:ASN:ND2	2.30	0.56
5:A1:422:LEU:O	5:A1:426:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:273:ILE:HD11	7:BL:138:LEU:HB3	1.87	0.56
2:AL:2:THR:OG1	2:AL:3:LEU:N	2.31	0.56
2:AO:209:ASP:O	2:AO:213:ASN:ND2	2.34	0.56
10:AR:294:VAL:HG12	10:AR:305:ILE:HB	1.88	0.56
10:AT:319:THR:HG21	10:AT:370:GLY:HA3	1.87	0.56
6:AV:103:ILE:HD12	6:AV:296:THR:HG21	1.86	0.56
6:AX:172:THR:HG1	6:AX:196:VAL:H	1.53	0.56
6:Ai:319:SER:HA	6:Ai:323:LEU:HB2	1.88	0.56
6:Am:84:THR:OG1	6:Am:88:VAL:O	2.23	0.56
6:An:495:ARG:NH1	11:BT:36:SER:O	2.38	0.56
7:As:13:LYS:HG3	7:As:34:ILE:HG21	1.87	0.56
6:Ay:444:MET:O	6:Ay:449:TYR:OH	2.24	0.56
2:B2:118:VAL:HB	2:B2:126:GLU:HB3	1.88	0.56
5:BA:161:ILE:HB	5:BA:173:GLU:HB3	1.87	0.56
3:BX:39:THR:HG22	3:BX:71:VAL:HG22	1.87	0.56
3:Bf:64:ARG:HG2	3:Bi:93:ALA:HB1	1.86	0.56
3:Bk:137:VAL:HB	3:Bk:155:VAL:HG13	1.88	0.56
2:Bp:487:THR:HG21	2:Bp:559:MET:HE3	1.88	0.56
2:Bu:379:ALA:HA	2:Bu:411:ARG:HB2	1.87	0.56
2:Bv:521:ALA:HB1	2:Bv:541:ALA:HA	1.87	0.56
2:Bw:11:LYS:HG2	2:Bw:13:THR:HG23	1.87	0.56
5:A2:97:SER:HB2	5:BD:405:LYS:HD2	1.87	0.56
2:AP:617:VAL:HG22	2:AP:622:GLU:HB2	1.87	0.56
6:Ah:130:VAL:HG12	6:Ah:142:GLU:HA	1.88	0.56
6:Am:264:ARG:NH2	6:BJ:152:ALA:O	2.37	0.56
6:Ay:365:ALA:HB2	6:Ay:372:GLU:HA	1.87	0.56
2:B1:70:ASN:ND2	2:B1:457:GLN:OE1	2.38	0.56
2:B5:514:ARG:NH1	2:B6:364:ASP:OD1	2.31	0.56
6:BJ:456:LEU:H	6:BJ:475:THR:HB	1.70	0.56
11:BS:38:VAL:HG11	11:BS:69:ILE:HG12	1.87	0.56
3:Be:4:ASP:OD2	2:Bz:593:GLN:NE2	2.39	0.56
3:Bl:125:LYS:NZ	3:Bo:83:GLN:OE1	2.28	0.56
2:Bp:117:THR:HG23	2:Bp:127:THR:HG22	1.87	0.56
2:Bp:653:GLU:HB2	2:Bs:16:GLN:HG3	1.86	0.56
2:Bt:536:TYR:HE1	2:Bu:572:LEU:HD21	1.71	0.56
2:Bv:430:ARG:NH2	2:Bv:443:ILE:O	2.38	0.56
2:By:635:ILE:HD11	2:Bz:576:ASN:HD22	1.71	0.56
2:Bz:26:THR:HA	2:Bz:77:ASP:O	2.06	0.56
4:K:34:ALA:HB3	4:L:26:LYS:HG2	1.87	0.56
2:3:101:TYR:CZ	2:3:143:ILE:HG12	2.40	0.55
5:A0:98:ASP:OD2	5:A0:379:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:237:GLU:HG2	6:A5:246:PRO:HA	1.89	0.55
2:AD:28:ALA:HB2	2:AD:370:VAL:HG21	1.87	0.55
6:AV:79:ILE:HG23	6:AZ:121:THR:HG22	1.88	0.55
6:AW:345:TRP:CD1	6:AW:347:GLY:H	2.24	0.55
6:AX:398:GLN:HE22	6:Az:355:PHE:HB2	1.71	0.55
6:Ao:345:TRP:CD1	6:Ao:346:ALA:H	2.24	0.55
6:Ap:257:GLN:NE2	6:Ap:481:ILE:O	2.39	0.55
5:Ax:97:SER:HB2	5:BA:405:LYS:HD2	1.89	0.55
2:B2:209:ASP:OD1	2:B2:209:ASP:N	2.32	0.55
2:B2:498:GLN:HA	2:B2:534:VAL:HG12	1.88	0.55
2:B7:61:THR:HG22	2:B7:65:PHE:HB2	1.88	0.55
3:Bc:39:THR:HG22	3:Bc:71:VAL:HG13	1.88	0.55
3:Bn:62:GLY:O	3:Bo:118:ARG:NH2	2.40	0.55
2:Bs:40:GLN:H	2:Bs:81:VAL:HG23	1.70	0.55
2:Bu:401:GLN:O	2:Bu:561:LYS:NZ	2.38	0.55
2:Bx:563:ASN:ND2	2:Bx:591:TYR:OH	2.31	0.55
4:P:44:MET:HE1	4:U:44:MET:HG2	1.87	0.55
1:k:64:GLU:HB2	1:k:79:LYS:HG3	1.88	0.55
8:q:256:THR:HG21	8:q:271:ARG:HB3	1.88	0.55
9:y:80:GLU:OE1	9:y:82:LYS:NZ	2.39	0.55
1:0:154:PRO:HA	1:0:167:ARG:HD3	1.87	0.55
2:5:398:ASP:O	2:5:401:GLN:NE2	2.36	0.55
2:5:424:ASP:OD1	2:5:516:ARG:NH2	2.39	0.55
2:5:605:ARG:HG2	2:5:607:VAL:HG23	1.86	0.55
5:A0:405:LYS:NZ	5:BH:451:ASP:OD2	2.38	0.55
6:A7:372:GLU:OE2	6:AW:406:THR:OG1	2.22	0.55
6:A9:380:ARG:HH21	6:A9:408:THR:HG21	1.71	0.55
9:AC:79:GLU:OE1	9:z:119:ASN:ND2	2.39	0.55
3:AF:41:LEU:HD23	3:AG:82:ARG:HH21	1.71	0.55
2:AK:350:VAL:HG13	2:AK:354:ASP:HB2	1.87	0.55
2:AL:220:PRO:HG2	2:AL:338:LEU:HD11	1.88	0.55
6:Ak:347:GLY:HA2	6:Ak:398:GLN:HB2	1.88	0.55
6:An:279:ARG:NH1	7:As:115:ALA:O	2.39	0.55
5:Ax:211:ALA:H	5:Ax:225:GLY:HA3	1.71	0.55
2:B1:70:ASN:OD1	2:B1:457:GLN:NE2	2.32	0.55
2:B1:391:LYS:HG3	2:B1:443:ILE:HD13	1.88	0.55
2:B5:128:GLU:HB2	2:B5:146:PRO:HG2	1.88	0.55
2:B5:237:GLU:OE1	2:B5:284:ARG:NH1	2.32	0.55
5:BH:112:ASN:HB3	5:BH:445:LYS:HB2	1.88	0.55
6:BM:148:TYR:HA	6:BM:186:GLY:H	1.70	0.55
3:BX:96:GLY:O	3:Bj:56:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bn:83:GLN:HA	3:Bn:86:VAL:HG22	1.88	0.55
2:Bt:131:ILE:HG23	2:Bt:143:ILE:HG22	1.88	0.55
2:Bw:131:ILE:HG23	2:Bw:143:ILE:HG22	1.88	0.55
1:l:83:ALA:HB3	1:l:201:LEU:HD21	1.88	0.55
1:p:176:TYR:HE2	1:p:179:GLU:HG3	1.70	0.55
9:v:139:SER:HB3	9:v:156:THR:H	1.71	0.55
9:z:27:THR:O	9:z:29:ALA:N	2.38	0.55
2:1:310:TYR:O	2:1:314:PHE:HB2	2.06	0.55
2:1:490:SER:O	2:1:496:ARG:NH1	2.38	0.55
2:AD:379:ALA:HB2	2:AD:411:ARG:HB2	1.88	0.55
3:AG:56:ARG:NH2	3:AI:96:GLY:O	2.38	0.55
3:AI:59:ASN:ND2	3:AJ:159:LEU:O	2.39	0.55
7:Aa:162:TRP:HE1	7:Ab:54:ASN:HA	1.71	0.55
6:Af:145:HIS:CE1	6:Af:147:MET:HB2	2.41	0.55
6:An:147:MET:HE2	6:An:367:GLN:HG2	1.89	0.55
7:Ar:36:ASP:OD2	7:At:18:ARG:NH1	2.39	0.55
2:B2:211:GLN:OE1	2:B2:329:ASN:ND2	2.40	0.55
2:B4:409:PRO:O	2:B4:454:TYR:OH	2.24	0.55
2:B6:235:GLU:OE2	2:B6:261:ARG:NH1	2.39	0.55
5:BG:310:ASN:HB3	5:BG:325:GLN:HA	1.88	0.55
7:BL:22:ALA:HB1	7:BL:23:PRO:HD2	1.89	0.55
11:BR:14:GLU:HB3	11:BR:25:GLY:H	1.72	0.55
3:BZ:24:GLU:OE1	3:BZ:33:THR:OG1	2.24	0.55
3:Bk:5:ASP:OD2	3:Bk:8:ARG:NH2	2.40	0.55
2:Br:240:SER:OG	2:Br:243:ASP:OD1	2.24	0.55
2:Bv:412:GLU:HA	2:Bv:415:VAL:HG12	1.88	0.55
4:G:53:ARG:NH2	4:R:12:ASP:OD2	2.39	0.55
8:t:85:ASN:ND2	8:t:195:ASN:OD1	2.39	0.55
2:1:406:LEU:HD11	2:1:475:ALA:HB2	1.87	0.55
2:3:561:LYS:NZ	8:s:231:GLU:OE2	2.34	0.55
5:A1:8:LEU:HD21	5:BB:29:VAL:HG22	1.88	0.55
5:A1:66:GLU:HA	5:A1:70:LYS:HD3	1.88	0.55
5:A1:140:GLN:O	5:A1:141:ARG:NE	2.39	0.55
8:AB:85:ASN:ND2	8:AB:195:ASN:OD1	2.38	0.55
3:AE:17:ARG:HH21	3:AF:150:ILE:HG22	1.70	0.55
6:Ah:449:TYR:OH	6:Ah:482:ASN:OD1	2.23	0.55
6:Aj:324:THR:HG22	6:Aj:325:PRO:HD2	1.89	0.55
6:Ao:463:ASP:OD1	6:Ao:463:ASP:N	2.39	0.55
7:At:80:ASN:OD1	7:At:80:ASN:N	2.38	0.55
5:Av:190:THR:OG1	5:Av:191:GLU:N	2.38	0.55
2:B2:202:GLU:OE1	2:B2:203:ALA:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BE:159:PRO:HB3	7:BE:174:GLY:O	2.07	0.55
11:BP:10:ILE:HD11	11:BP:35:TYR:HE1	1.72	0.55
1:m:177:SER:OG	1:m:210:ILE:O	2.21	0.55
2:1:47:GLU:OE2	2:1:461:TYR:OH	2.24	0.55
3:8:17:ARG:HH22	9:w:47:THR:HG21	1.71	0.55
6:A8:268:ALA:HB1	6:A8:290:LEU:HD22	1.89	0.55
2:AD:647:THR:OG1	2:AN:633:ARG:NH1	2.39	0.55
2:AK:135:ASP:HB3	2:AK:139:LYS:HB2	1.87	0.55
2:AK:264:THR:O	2:AK:266:LYS:N	2.40	0.55
2:AK:453:ASN:HB2	2:AK:506:ALA:HB3	1.89	0.55
7:Ab:60:PHE:HB2	7:Ab:182:ILE:HG13	1.88	0.55
5:Av:223:GLU:OE1	5:Av:224:ALA:N	2.37	0.55
5:Ax:474:GLU:HG3	5:Ax:475:PRO:HD3	1.89	0.55
2:B4:135:ASP:HB3	2:B4:139:LYS:HB2	1.89	0.55
2:B5:373:PHE:HB2	2:B5:405:VAL:HG22	1.88	0.55
2:B7:40:GLN:H	2:B7:81:VAL:HG23	1.71	0.55
5:BD:454:PHE:CZ	5:BD:458:LYS:HD2	2.41	0.55
5:BH:275:ARG:NH1	5:BH:353:ALA:O	2.38	0.55
6:BI:264:ARG:NH1	6:BI:477:TYR:OH	2.40	0.55
11:BN:77:LYS:NZ	11:BN:78:VAL:O	2.39	0.55
3:BY:4:ASP:OD1	3:BY:4:ASP:N	2.38	0.55
3:Ba:97:ASN:O	3:Bn:3:VAL:N	2.34	0.55
3:Bc:106:GLU:O	3:Bc:109:LYS:NZ	2.33	0.55
3:Bg:47:GLU:OE1	3:Bk:148:ASN:ND2	2.39	0.55
2:Br:202:GLU:OE1	2:Br:203:ALA:N	2.35	0.55
2:Bv:576:ASN:ND2	2:Bv:622:GLU:O	2.40	0.55
2:Bx:206:THR:HA	2:Bx:211:GLN:HE21	1.71	0.55
4:H:9:PRO:HD3	4:H:57:VAL:HG21	1.87	0.55
1:n:127:VAL:O	1:n:128:ASN:ND2	2.31	0.55
8:t:27:LYS:NZ	8:t:34:ASP:OD2	2.32	0.55
2:2:98:ASN:HB2	2:2:188:ILE:HD12	1.89	0.55
2:3:193:ILE:HD11	2:3:204:ALA:HB1	1.87	0.55
3:7:132:LEU:HD21	3:7:157:LEU:HD13	1.87	0.55
5:A2:109:VAL:HG23	5:A2:134:LEU:HD21	1.89	0.55
5:A3:156:ILE:HG22	5:A3:238:ALA:HB3	1.87	0.55
7:A6:12:LEU:HD13	7:A6:38:ILE:HD12	1.89	0.55
3:AG:58:ILE:HD12	3:Bd:6:VAL:HG21	1.89	0.55
6:Am:452:PRO:HA	6:Am:477:TYR:HA	1.87	0.55
6:An:431:GLN:NE2	6:BK:217:GLU:OE2	2.40	0.55
2:B6:391:LYS:NZ	2:B6:440:ASN:O	2.40	0.55
5:BG:39:GLY:H	5:BG:250:ILE:HD11	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BH:477:ILE:HA	5:BH:481:ILE:HG23	1.88	0.55
6:BM:105:ASN:HB2	6:BM:412:VAL:HG23	1.87	0.55
3:BX:1:MET:SD	3:Ba:22:GLN:NE2	2.80	0.55
3:Be:56:ARG:NH2	3:Bk:96:GLY:O	2.40	0.55
2:Bq:428:ASN:HA	2:Bq:433:ALA:HB3	1.89	0.55
2:Bq:478:CYS:O	2:Bq:555:ARG:NH1	2.37	0.55
2:Bu:365:ARG:NH2	2:Bu:400:ARG:O	2.37	0.55
2:Bu:592:LEU:HD23	2:Bu:604:TYR:HB2	1.88	0.55
2:Bx:521:ALA:HB1	2:Bx:541:ALA:HA	1.88	0.55
4:C:10:PHE:O	4:C:54:ASN:ND2	2.33	0.55
4:W:62:ILE:HD12	4:b:58:LEU:HD22	1.88	0.55
4:d:9:PRO:O	4:d:20:SER:N	2.33	0.55
5:A1:41:ARG:HH11	5:A1:67:PRO:HG2	1.71	0.55
5:A2:115:LYS:NZ	5:A2:443:ASN:OD1	2.39	0.55
5:A2:183:GLN:HB3	5:A2:207:ILE:HG13	1.87	0.55
6:A7:120:PRO:HD3	6:A7:453:TYR:CZ	2.42	0.55
3:AH:120:ALA:HB3	3:AH:121:LYS:HE2	1.89	0.55
2:AM:41:ILE:HD11	2:AM:361:PHE:HB3	1.89	0.55
2:AM:645:THR:OG1	2:By:629:ILE:O	2.24	0.55
7:Aa:76:LEU:HD13	7:Aa:81:VAL:HG21	1.88	0.55
7:Ab:12:LEU:HD13	7:Ab:38:ILE:HD12	1.88	0.55
6:Ac:260:GLU:HG2	6:Ac:261:ALA:H	1.72	0.55
6:Ae:131:TYR:HD2	6:Ae:250:MET:HE3	1.72	0.55
6:Ai:96:MET:N	6:Am:123:GLN:O	2.40	0.55
7:Ar:12:LEU:HD21	7:Ar:248:LYS:HG2	1.88	0.55
7:Ar:59:VAL:HG12	7:Ar:183:ILE:HG13	1.87	0.55
7:Ar:162:TRP:HE1	7:At:54:ASN:HA	1.72	0.55
7:At:12:LEU:HD12	7:At:242:TYR:HD2	1.72	0.55
6:Aw:387:ALA:HB2	6:Aw:404:PHE:HB2	1.89	0.55
2:B2:364:ASP:O	2:B2:367:SER:N	2.40	0.55
5:BD:178:ASP:HB3	5:BD:181:GLN:HB2	1.88	0.55
6:BK:350:PHE:HB2	6:BK:389:VAL:HG11	1.88	0.55
11:BT:64:GLN:O	11:BT:66:THR:N	2.39	0.55
3:Bh:63:ASP:OD1	3:Bh:64:ARG:N	2.39	0.55
2:Bw:311:ILE:HB	2:Bw:327:ALA:HB2	1.89	0.55
4:V:58:LEU:HD22	4:f:62:ILE:HD12	1.88	0.55
8:q:203:ASP:OD1	8:q:204:ASP:N	2.39	0.55
2:2:70:ASN:OD1	2:2:457:GLN:NE2	2.38	0.55
3:8:20:LEU:HD23	9:v:54:PHE:HB3	1.89	0.55
5:A1:374:ARG:NH2	5:BD:93:SER:OG	2.39	0.55
7:A6:90:THR:OG1	7:A6:91:ASN:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:121:THR:HG23	6:AW:79:ILE:HG23	1.87	0.55
6:A9:269:ALA:HA	6:A9:470:VAL:HA	1.88	0.55
2:AD:528:THR:HG21	2:AN:569:LYS:HZ1	1.72	0.55
3:AH:25:ILE:O	3:AH:27:TYR:N	2.35	0.55
2:AM:57:PRO:HB2	2:AM:62:ALA:HA	1.87	0.55
2:AO:430:ARG:HG3	2:AO:522:ILE:HD11	1.88	0.55
6:AW:479:ILE:HD11	6:AW:501:PRO:HG3	1.88	0.55
7:AY:192:ILE:HB	7:AY:197:MET:HE2	1.88	0.55
6:Ao:379:SER:OG	6:Ao:432:ASP:OD1	2.25	0.55
5:Av:367:GLN:OE1	5:BB:382:GLN:NE2	2.40	0.55
4:B:44:MET:HG2	4:R:44:MET:HE1	1.89	0.55
2:B5:432:ALA:HB2	2:B5:440:ASN:HD22	1.71	0.55
2:B7:655:THR:HB	2:Br:19:VAL:HG21	1.89	0.55
5:BD:6:LEU:HD22	5:BD:6:LEU:H	1.70	0.55
6:BI:274:LEU:HD13	6:BM:69:GLY:HA2	1.88	0.55
3:Bb:25:ILE:O	3:Bb:27:TYR:N	2.39	0.55
3:Bk:43:ALA:O	3:Bk:162:TRP:NE1	2.40	0.55
2:Bs:16:GLN:NE2	2:Bs:460:LYS:O	2.39	0.55
2:Bu:368:VAL:HB	2:Bu:400:ARG:HH21	1.70	0.55
2:Bw:116:ILE:HD11	2:Bw:131:ILE:HD11	1.88	0.55
2:Bz:33:PHE:HA	2:Bz:61:THR:HG23	1.89	0.55
2:Bz:70:ASN:OD1	2:Bz:457:GLN:NE2	2.29	0.55
1:l:6:LYS:NZ	1:l:23:GLU:OE2	2.40	0.55
1:l:213:ILE:HD13	8:s:70:THR:HG22	1.88	0.55
8:q:134:VAL:HG21	8:q:188:TRP:CE3	2.42	0.55
8:s:155:ASN:O	8:s:157:ILE:N	2.40	0.55
9:w:50:VAL:HG13	9:w:55:GLY:HA2	1.88	0.55
5:A1:220:ARG:HD2	5:A1:222:TYR:H	1.72	0.55
6:A7:278:LEU:HD23	6:A7:286:ALA:HB2	1.89	0.55
6:A9:118:ASN:HB3	7:Aa:130:GLY:HA3	1.88	0.55
6:A9:317:GLY:HA2	6:A9:514:ARG:HE	1.70	0.55
3:AE:23:VAL:HG11	3:AE:39:THR:HG21	1.89	0.55
2:AO:51:VAL:HG22	2:AO:65:PHE:HZ	1.70	0.55
6:Ac:380:ARG:HE	6:Ag:366:ARG:HB2	1.72	0.55
6:BK:133:LYS:HG2	6:BK:249:GLU:HB3	1.89	0.55
11:BR:38:VAL:HG11	11:BR:69:ILE:HG12	1.89	0.55
3:BX:23:VAL:HG11	3:BX:39:THR:HG21	1.88	0.55
3:Be:54:MET:HB2	3:Bi:20:LEU:HD23	1.89	0.55
3:Bo:114:ARG:HG2	3:Bo:126:GLU:HG3	1.88	0.55
2:Bs:526:THR:OG1	2:Bt:366:GLU:OE1	2.24	0.55
2:Bt:459:ASP:OD2	2:Bt:462:ASN:ND2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:By:157:VAL:HG23	2:By:159:GLU:H	1.71	0.55
2:Bz:455:LYS:HD2	2:Bz:468:VAL:HB	1.88	0.55
1:n:57:GLU:HA	1:n:87:ALA:HA	1.89	0.55
1:n:177:SER:HB2	1:n:207:LEU:HB3	1.88	0.55
8:r:146:ASN:ND2	9:v:119:ASN:OD1	2.40	0.55
8:t:174:GLU:HG2	8:t:186:ILE:HG23	1.89	0.55
2:1:18:THR:OG1	2:1:19:VAL:N	2.39	0.55
2:1:654:LEU:HD22	2:2:17:SER:HB3	1.89	0.55
2:3:70:ASN:OD1	2:3:457:GLN:NE2	2.40	0.55
5:A1:215:TYR:HA	5:BB:248:LYS:HE2	1.89	0.55
6:A8:397:ALA:HB1	6:A9:393:ILE:HG22	1.88	0.55
6:A9:452:PRO:HA	6:A9:477:TYR:HA	1.89	0.55
9:AC:106:LYS:HG3	9:AC:107:THR:HG23	1.88	0.55
3:AF:58:ILE:HD12	3:Ba:6:VAL:HG21	1.89	0.55
3:AG:72:THR:HG22	3:AG:154:GLU:HG3	1.89	0.55
3:AI:41:LEU:HB3	3:AJ:140:LEU:HB3	1.88	0.55
6:AW:456:LEU:H	6:AW:475:THR:HG22	1.70	0.55
7:Ab:305:GLY:HA2	5:Av:304:VAL:HG13	1.87	0.55
7:At:15:VAL:HG11	7:At:248:LYS:HD2	1.89	0.55
6:Aw:278:LEU:HD23	6:Aw:286:ALA:HB2	1.89	0.55
2:B4:254:ILE:HG13	2:B4:337:ILE:HB	1.89	0.55
5:BF:306:ASN:O	5:BF:310:ASN:ND2	2.40	0.55
5:BF:394:THR:HG23	5:BF:457:LEU:HB3	1.89	0.55
5:BH:161:ILE:HD12	5:BH:173:GLU:HB3	1.88	0.55
3:Bc:4:ASP:OD1	3:Bc:4:ASP:N	2.38	0.55
3:Bf:73:VAL:HG21	3:Bf:85:PHE:HE2	1.71	0.55
3:Bf:85:PHE:HB3	3:Bf:137:VAL:HG21	1.87	0.55
2:Bp:89:ALA:HA	2:Bp:345:SER:HA	1.88	0.55
2:Bw:24:THR:O	2:Bw:483:ASN:ND2	2.31	0.55
2:Bx:51:VAL:HG22	2:Bx:65:PHE:HZ	1.71	0.55
4:H:10:PHE:O	4:H:54:ASN:ND2	2.35	0.55
2:2:94:PRO:HB2	2:2:219:ILE:HD12	1.88	0.54
2:3:281:ILE:HD12	2:3:295:LEU:HD12	1.89	0.54
2:4:451:ASP:OD1	2:4:452:GLY:N	2.40	0.54
5:A0:111:LEU:HD11	5:A0:444:ILE:HD11	1.89	0.54
6:A5:300:LEU:HG	6:AW:150:PRO:HG3	1.88	0.54
7:A6:144:LEU:HB3	7:BL:117:ILE:HG22	1.90	0.54
6:A7:100:ARG:NH2	6:A7:289:GLU:OE2	2.40	0.54
2:AK:46:ASN:OD1	2:AK:47:GLU:N	2.40	0.54
6:AZ:66:ALA:N	6:Ah:240:ASN:OD1	2.39	0.54
6:Ah:484:PHE:O	6:Ah:487:SER:OG	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Aj:84:THR:OG1	6:Aj:88:VAL:O	2.24	0.54
6:Ak:154:PHE:O	6:Ak:248:ASN:ND2	2.38	0.54
6:Am:117:MET:HG3	6:Am:451:ALA:HB1	1.89	0.54
6:Au:336:ASP:HB3	6:Au:339:ASP:HB2	1.89	0.54
6:Az:154:PHE:O	6:Az:248:ASN:ND2	2.40	0.54
2:B2:33:PHE:HA	2:B2:61:THR:HG23	1.88	0.54
2:B2:411:ARG:O	2:B2:415:VAL:HB	2.07	0.54
2:B7:119:LYS:HE3	2:B7:122:SER:HA	1.89	0.54
5:BG:489:ASP:O	5:BG:492:GLN:NE2	2.40	0.54
7:BL:59:VAL:HG12	7:BL:183:ILE:HG13	1.89	0.54
3:Bl:100:THR:OG1	3:Bl:101:GLY:N	2.39	0.54
3:Bn:28:LEU:HB3	3:Bn:84:LYS:HD3	1.89	0.54
2:Bt:264:THR:HB	2:Bt:267:ALA:HB3	1.89	0.54
8:u:185:ARG:NH1	8:u:187:GLU:OE1	2.38	0.54
2:3:423:VAL:HG21	2:3:513:GLN:HB3	1.89	0.54
5:A2:477:ILE:HG22	5:A2:481:ILE:HB	1.90	0.54
5:A3:256:ARG:HH11	5:BG:86:TYR:HB2	1.71	0.54
8:AB:218:ALA:HB3	8:AB:229:VAL:HG11	1.89	0.54
3:AH:97:ASN:HA	3:Ba:3:VAL:HG12	1.89	0.54
3:Al:23:VAL:HG11	3:Al:39:THR:HG21	1.88	0.54
2:AK:256:PRO:HG2	2:AK:339:THR:H	1.71	0.54
7:AY:294:ARG:NH1	7:AY:298:TYR:OH	2.39	0.54
6:Af:117:MET:HB2	6:Af:453:TYR:HD1	1.72	0.54
6:Aj:264:ARG:NH1	6:Aj:305:GLU:OE1	2.40	0.54
7:Al:238:LYS:H	7:Al:238:LYS:HD3	1.72	0.54
6:An:383:VAL:HG12	6:An:406:THR:HG22	1.88	0.54
6:Ao:160:ALA:HB3	6:Ao:228:MET:HE3	1.89	0.54
2:B1:166:ASN:OD1	2:B1:166:ASN:N	2.32	0.54
2:B2:57:PRO:HA	2:B2:61:THR:HB	1.90	0.54
2:B3:455:LYS:HG3	2:B3:502:VAL:HG13	1.89	0.54
3:Be:113:VAL:HG13	3:Be:127:ILE:HG12	1.90	0.54
2:Bp:453:ASN:HB2	2:Bp:506:ALA:HB3	1.90	0.54
2:Bq:521:ALA:HB1	2:Bq:541:ALA:HA	1.89	0.54
2:Bs:239:VAL:HG22	2:Bs:280:ALA:HB3	1.89	0.54
2:Bt:159:GLU:HB3	2:Bt:163:LEU:HA	1.89	0.54
2:Bx:95:ILE:HD11	2:Bx:214:LEU:HG	1.90	0.54
2:Bz:256:PRO:HG2	2:Bz:339:THR:H	1.72	0.54
4:K:35:ASP:OD1	4:L:27:ASN:ND2	2.39	0.54
4:P:52:LEU:HD21	4:U:12:ASP:HB2	1.89	0.54
2:1:12:GLU:HG2	2:AD:642:PHE:HB2	1.90	0.54
2:1:225:LEU:HB3	2:1:324:PHE:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:401:GLN:O	2:2:561:LYS:NZ	2.39	0.54
2:4:455:LYS:HE3	2:4:502:VAL:HG22	1.89	0.54
5:A2:381:PRO:HB3	5:BD:377:LEU:HD23	1.90	0.54
5:A3:180:ARG:NH2	5:BF:246:CYS:SG	2.77	0.54
6:A5:264:ARG:NH2	6:AW:152:ALA:O	2.38	0.54
2:AP:488:TRP:HB3	2:AP:556:LEU:HD13	1.88	0.54
6:Ad:360:GLU:HB3	6:Ad:436:VAL:HG11	1.89	0.54
6:Aj:387:ALA:HB2	6:Aj:404:PHE:HB2	1.89	0.54
7:Al:206:THR:HG21	7:Al:213:TRP:HE1	1.72	0.54
6:Am:486:GLU:HG3	6:Am:509:LYS:HB3	1.88	0.54
2:B1:16:GLN:HG3	2:Bx:653:GLU:HA	1.89	0.54
2:B1:284:ARG:HG2	2:B1:289:ILE:HD13	1.89	0.54
2:B5:299:ARG:H	2:B5:299:ARG:HD2	1.72	0.54
2:B6:227:PRO:HB2	2:B6:345:SER:HB3	1.90	0.54
5:BB:396:ILE:HG23	5:BB:400:GLU:HB3	1.89	0.54
7:BC:95:ILE:HG23	7:BE:111:LEU:HD11	1.90	0.54
6:BJ:390:ASP:HB2	6:BJ:397:ALA:HB3	1.90	0.54
7:BL:273:GLY:O	1:n:160:GLN:NE2	2.40	0.54
3:Bf:100:THR:OG1	3:Bf:101:GLY:N	2.40	0.54
3:Bg:55:ASN:HA	3:Bk:19:ASN:HD22	1.73	0.54
1:p:127:VAL:O	1:p:128:ASN:ND2	2.33	0.54
2:4:57:PRO:HG3	2:4:65:PHE:CD1	2.42	0.54
2:4:360:ASP:OD1	2:4:392:HIS:NE2	2.28	0.54
2:5:586:THR:HG21	9:z:129:ASN:HD22	1.72	0.54
5:A3:273:ILE:HD11	7:Al:138:LEU:HB3	1.88	0.54
2:AD:592:LEU:HD23	2:AD:604:TYR:HB2	1.89	0.54
3:AI:17:ARG:HG3	3:AI:20:LEU:HD12	1.90	0.54
2:AO:473:ASP:HB3	2:AO:499:ILE:HD12	1.88	0.54
7:AY:101:ASN:ND2	6:BK:463:ASP:OD2	2.40	0.54
7:Aa:27:VAL:HG12	7:Aa:29:LEU:HD23	1.90	0.54
7:Aa:43:GLU:O	7:Aa:47:GLU:HG2	2.08	0.54
6:Ag:190:LEU:HB3	6:Ag:221:LEU:HB3	1.90	0.54
6:Ai:264:ARG:NH1	6:Ai:477:TYR:HH	2.05	0.54
6:Ai:426:ASP:OD2	6:Ai:433:TYR:OH	2.25	0.54
6:Ap:93:PRO:HD3	7:BE:98:MET:HG2	1.90	0.54
6:Ap:502:SER:OG	6:Ap:505:ASN:OD1	2.22	0.54
5:Av:423:LYS:HG3	5:Av:437:TRP:CD1	2.42	0.54
2:B1:36:GLY:O	2:B1:82:ARG:NH1	2.38	0.54
2:B1:66:MET:HG2	2:B1:468:VAL:HG21	1.90	0.54
2:B1:417:ILE:HB	2:B1:421:ARG:HH11	1.73	0.54
2:B6:360:ASP:OD1	2:B6:392:HIS:NE2	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BE:106:TRP:HE1	7:BE:116:GLY:HA3	1.73	0.54
5:BG:188:ILE:HG22	5:BG:190:THR:HG22	1.89	0.54
3:Bg:19:ASN:OD1	3:Bg:19:ASN:N	2.29	0.54
2:Bv:163:LEU:HD11	2:Bv:187:ILE:HG12	1.88	0.54
2:Bx:41:ILE:HD11	2:Bx:361:PHE:HB3	1.88	0.54
4:F:80:GLN:HB2	4:Q:79:ILE:HD11	1.90	0.54
1:l:41:ILE:HD13	1:m:5:ASP:HB2	1.88	0.54
1:l:112:ASP:HB2	1:l:173:LYS:HD3	1.89	0.54
8:q:112:SER:HB2	8:r:142:GLN:HE22	1.73	0.54
9:z:19:VAL:HG21	9:z:37:VAL:HG21	1.88	0.54
5:A3:88:VAL:HG23	5:A3:373:LEU:HD11	1.89	0.54
5:A3:304:VAL:HG13	7:A6:305:GLY:HA2	1.89	0.54
6:A5:365:ALA:HB2	6:A5:372:GLU:HA	1.88	0.54
3:AA:114:ARG:NH2	3:AA:116:TYR:OH	2.27	0.54
9:AC:50:VAL:HG13	9:AC:55:GLY:HA2	1.90	0.54
2:AP:302:LYS:HB3	2:AP:306:ASP:HA	1.89	0.54
2:AP:641:ASN:HB2	2:Bp:626:THR:HG22	1.90	0.54
6:Ad:241:GLY:HA3	11:BR:43:GLY:HA2	1.88	0.54
6:Af:239:PHE:O	6:Af:242:SER:OG	2.25	0.54
6:Ah:171:GLN:HE21	6:Ah:195:GLN:HE21	1.55	0.54
6:Ap:448:ILE:HG22	6:Ap:481:ILE:HD13	1.89	0.54
2:B2:479:ALA:O	2:B2:483:ASN:ND2	2.36	0.54
5:BA:453:TYR:OH	5:BH:459:GLU:OE2	2.23	0.54
7:BL:265:ARG:NH1	1:m:49:GLU:OE2	2.39	0.54
3:BX:9:ALA:O	3:Ba:35:GLN:NE2	2.36	0.54
3:BY:54:MET:O	3:BY:56:ARG:N	2.41	0.54
3:Ba:11:GLU:OE1	2:Bv:486:GLN:NE2	2.39	0.54
3:Bl:64:ARG:NH2	3:Bo:95:GLN:OE1	2.40	0.54
2:Bq:23:SER:OG	2:Bq:74:TYR:O	2.26	0.54
2:Br:490:SER:O	2:Br:496:ARG:NH1	2.33	0.54
2:Bv:612:ASN:HB3	2:Bv:624:VAL:HG23	1.90	0.54
2:Bx:23:SER:OG	2:Bx:74:TYR:O	2.26	0.54
2:Bx:84:VAL:HG13	2:Bx:346:SER:HB3	1.90	0.54
1:l:25:GLU:HG3	1:l:26:ILE:H	1.73	0.54
1:n:151:TRP:HZ2	8:t:59:ILE:HD12	1.73	0.54
5:A0:381:PRO:HB2	5:BG:377:LEU:HD23	1.90	0.54
5:A2:303:HIS:NE2	7:BL:161:PHE:O	2.41	0.54
5:A3:57:ALA:O	5:A3:60:THR:OG1	2.22	0.54
6:A7:217:GLU:OE1	6:AW:519:LYS:NZ	2.36	0.54
2:AP:654:LEU:HD22	2:Bp:605:ARG:HH11	1.72	0.54
10:AT:328:ASP:O	10:AT:338:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AV:430:LYS:HG3	6:AZ:216:MET:HE1	1.88	0.54
7:Ab:87:ILE:HG23	7:Ab:184:VAL:HG12	1.90	0.54
6:Ai:345:TRP:HB2	6:Am:344:ARG:HH21	1.72	0.54
6:Ak:270:TYR:HA	6:BK:67:GLU:HB2	1.89	0.54
2:B1:495:ASN:OD1	2:B1:495:ASN:N	2.35	0.54
2:B4:378:CYS:HG	2:B4:454:TYR:HH	1.55	0.54
2:B5:351:THR:OG1	2:B5:352:ALA:N	2.41	0.54
2:B6:33:PHE:O	2:B6:82:ARG:NH2	2.41	0.54
2:B6:368:VAL:O	2:B6:400:ARG:NH2	2.41	0.54
5:BB:37:ASP:OD2	5:BB:413:LYS:NZ	2.39	0.54
7:BE:163:PHE:HD1	7:BE:170:LEU:HB2	1.72	0.54
6:BJ:130:VAL:HG12	6:BJ:142:GLU:HA	1.90	0.54
7:BL:98:MET:N	7:BL:152:GLN:OE1	2.40	0.54
11:BQ:64:GLN:O	11:BQ:66:THR:N	2.40	0.54
3:BX:138:GLY:HA3	3:Bm:43:ALA:HA	1.90	0.54
3:BY:1:MET:SD	3:Bb:22:GLN:NE2	2.81	0.54
2:Bv:426:LEU:HD22	2:Bv:522:ILE:HD13	1.89	0.54
2:Bw:110:TYR:HB2	2:Bw:138:GLY:HA2	1.88	0.54
4:E:58:LEU:HD22	4:U:62:ILE:HD12	1.89	0.54
9:x:36:SER:OG	9:x:74:ARG:NH2	2.41	0.54
9:x:74:ARG:HH11	9:x:154:VAL:HG11	1.72	0.54
5:A0:180:ARG:NH1	7:BC:122:GLY:O	2.41	0.54
6:A7:344:ARG:HH11	6:A7:344:ARG:H	1.54	0.54
9:AC:137:ASP:OD1	9:AC:138:LEU:N	2.41	0.54
3:AF:63:ASP:OD2	3:Bd:147:ASN:ND2	2.40	0.54
3:AI:39:THR:HG22	3:AI:71:VAL:HG13	1.89	0.54
2:AM:639:THR:HB	2:By:624:VAL:HG12	1.90	0.54
6:AX:387:ALA:HB2	6:AX:404:PHE:HB2	1.89	0.54
6:Af:105:ASN:HB2	6:Af:412:VAL:HG13	1.89	0.54
6:Ag:304:ARG:NH2	6:Ag:308:ASP:OD1	2.41	0.54
6:Ak:264:ARG:NH1	6:Ak:305:GLU:OE1	2.41	0.54
6:Az:356:GLN:NE2	6:Az:360:GLU:OE1	2.33	0.54
2:B2:154:ALA:HA	2:B2:157:VAL:HG22	1.90	0.54
3:BX:114:ARG:HB3	3:BX:123:VAL:HG13	1.89	0.54
3:Bo:83:GLN:NE2	3:Bo:87:ASP:OD1	2.41	0.54
1:l:147:PHE:HB3	1:l:171:ALA:HB1	1.88	0.54
2:1:413:THR:HG23	2:1:414:VAL:HG23	1.89	0.54
2:1:463:ASP:HB3	2:AO:308:ASN:HB2	1.89	0.54
5:A2:335:TRP:HB2	7:AY:307:LEU:HB2	1.90	0.54
7:A6:152:GLN:NE2	7:A6:156:SER:OG	2.41	0.54
9:AC:27:THR:O	9:AC:29:ALA:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:37:PRO:HB2	2:AD:40:GLN:HB3	1.90	0.54
2:AK:617:VAL:HA	2:AK:620:ARG:HG2	1.90	0.54
2:AK:638:ILE:HG12	2:Bs:623:PHE:HB3	1.89	0.54
2:AN:126:GLU:OE2	2:AN:129:GLY:N	2.41	0.54
6:AV:118:ASN:OD1	6:AV:118:ASN:N	2.41	0.54
7:Aa:162:TRP:NE1	7:Ab:54:ASN:HA	2.23	0.54
7:Ab:15:VAL:HG11	7:Ab:248:LYS:HD2	1.88	0.54
6:Ai:105:ASN:ND2	6:Ai:409:THR:O	2.40	0.54
7:As:30:THR:HA	1:m:8:LEU:O	2.08	0.54
5:Av:461:GLU:HG2	5:Ax:465:ARG:HH22	1.72	0.54
6:Aw:127:LEU:HD23	6:BM:100:ARG:HG2	1.90	0.54
2:B3:373:PHE:HB2	2:B3:405:VAL:HG22	1.89	0.54
2:B5:195:LEU:HD22	2:B5:201:ALA:HB1	1.88	0.54
5:BD:160:LYS:NZ	5:BD:233:ALA:O	2.39	0.54
5:BF:99:ALA:O	5:BF:411:GLN:NE2	2.41	0.54
3:Bb:56:ARG:HG3	3:Bc:3:VAL:HG23	1.90	0.54
3:Bk:55:ASN:OD1	3:Bo:19:ASN:ND2	2.40	0.54
2:Br:83:ALA:HB2	2:Br:358:ALA:HB2	1.89	0.54
2:Bu:89:ALA:HA	2:Bu:345:SER:HA	1.89	0.54
2:Bv:28:ALA:HB2	2:Bv:370:VAL:HG21	1.90	0.54
2:Bv:455:LYS:NZ	2:Bv:473:ASP:OD1	2.37	0.54
2:Bx:509:THR:O	2:Bx:514:ARG:NH1	2.41	0.54
2:By:33:PHE:HA	2:By:61:THR:HG23	1.88	0.54
8:s:40:PRO:HG2	8:s:74:ARG:HG2	1.89	0.54
2:1:202:GLU:O	2:1:206:THR:OG1	2.20	0.54
6:A5:133:LYS:HG2	6:A5:249:GLU:HB2	1.88	0.54
2:AM:511:GLN:NE2	2:AN:5:SER:OG	2.41	0.54
2:AO:131:ILE:HD13	2:AO:140:ILE:HG21	1.88	0.54
7:AY:80:ASN:HB2	7:AY:189:LYS:HD3	1.89	0.54
6:AZ:264:ARG:NH2	6:Ad:152:ALA:O	2.40	0.54
6:AZ:406:THR:OG1	6:Ad:372:GLU:OE2	2.23	0.54
6:Ad:506:SER:HA	6:Ad:509:LYS:HB2	1.90	0.54
6:Ae:493:ALA:O	6:Ae:497:GLN:NE2	2.40	0.54
6:Ae:515:ARG:NH2	6:Ae:517:TYR:OH	2.39	0.54
6:Ai:345:TRP:CG	6:Ai:346:ALA:H	2.25	0.54
6:Aj:249:GLU:OE1	6:Aj:249:GLU:N	2.41	0.54
7:Al:192:ILE:HD11	7:Al:226:LEU:HD11	1.90	0.54
6:Am:345:TRP:CG	6:Am:346:ALA:H	2.26	0.54
6:Ay:260:GLU:H	6:Ay:500:MET:HE3	1.73	0.54
2:B2:119:LYS:HE3	2:B2:122:SER:HA	1.90	0.54
2:B5:643:VAL:HG13	2:Bp:14:THR:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:291:GLN:HE22	2:B6:320:SER:HB2	1.72	0.54
2:B7:571:ARG:NH2	2:B7:587:GLU:OE1	2.39	0.54
7:BE:80:ASN:HD21	7:BE:222:PRO:HG2	1.72	0.54
7:BL:77:ARG:NH1	7:BL:167:ASN:O	2.41	0.54
3:Bc:1:MET:HE3	3:Bh:99:ILE:HD12	1.90	0.54
3:Bj:114:ARG:HB3	3:Bj:123:VAL:HG13	1.90	0.54
2:Bq:100:GLU:HB3	2:Bq:188:ILE:HD11	1.89	0.54
3:o:148:ASN:HA	9:y:47:THR:HG22	1.88	0.54
8:q:48:HIS:ND1	8:r:182:SER:O	2.41	0.54
2:2:566:ARG:HA	2:2:569:LYS:HE2	1.88	0.54
2:3:331:PRO:HB2	2:3:334:PHE:HB2	1.90	0.54
5:A3:383:ASP:O	5:A3:385:GLN:N	2.41	0.54
3:AA:161:TYR:CZ	3:o:97:ASN:HB2	2.43	0.54
9:AC:168:LYS:HD2	9:v:85:ILE:HG21	1.90	0.54
3:AE:96:GLY:O	3:AI:56:ARG:NH2	2.34	0.54
6:AW:166:LEU:HD11	6:AW:198:ILE:HG13	1.90	0.54
6:Ak:190:LEU:HD21	6:Ak:216:MET:HE2	1.89	0.54
6:Ao:199:ASP:OD2	6:Ao:207:LYS:NZ	2.33	0.54
7:As:163:PHE:HB2	7:As:170:LEU:HD13	1.89	0.54
6:Au:101:ARG:NE	6:Ay:142:GLU:OE2	2.41	0.54
6:Au:344:ARG:HE	6:BJ:345:TRP:HE1	1.55	0.54
6:Aw:268:ALA:HB1	6:Aw:290:LEU:HD13	1.89	0.54
5:Ax:173:GLU:HG2	5:Ax:175:ARG:HE	1.71	0.54
7:BC:154:MET:HE1	5:BG:273:ILE:HD13	1.90	0.54
5:BH:373:LEU:O	5:BH:374:ARG:HB2	2.08	0.54
6:BI:110:ASP:N	6:BI:110:ASP:OD1	2.41	0.54
6:BI:228:MET:HE1	6:BI:247:TRP:HZ3	1.72	0.54
2:Bu:628:TYR:OH	2:Bw:15:VAL:O	2.24	0.54
2:Bx:550:ARG:HB3	2:Bx:553:VAL:HG12	1.89	0.54
4:Q:6:ASN:ND2	4:Q:61:ASN:OD1	2.38	0.54
2:3:51:VAL:HG22	2:3:65:PHE:HZ	1.73	0.53
2:4:108:SER:HB3	2:4:178:LEU:HD11	1.89	0.53
6:A7:453:TYR:HD2	6:A7:476:ARG:HD2	1.73	0.53
6:A8:305:GLU:HA	6:A9:225:ALA:HB3	1.89	0.53
3:AG:64:ARG:NH1	3:AH:95:GLN:HG2	2.22	0.53
2:AM:302:LYS:O	2:AM:307:SER:N	2.39	0.53
2:AM:455:LYS:HE2	2:AM:502:VAL:HG22	1.90	0.53
2:AO:26:THR:HA	2:AO:77:ASP:O	2.08	0.53
6:AV:123:GLN:HE21	6:Ap:93:PRO:HB2	1.72	0.53
6:Ad:380:ARG:HH21	6:Ah:363:GLU:HA	1.73	0.53
6:Af:238:GLY:HA2	6:Af:242:SER:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ai:484:PHE:O	6:Ai:487:SER:OG	2.24	0.53
6:Ak:157:GLN:NE2	6:Ak:227:GLY:O	2.41	0.53
6:Am:444:MET:O	6:Am:449:TYR:OH	2.26	0.53
7:Ar:305:GLY:HA2	5:Ax:304:VAL:HG22	1.89	0.53
6:Au:486:GLU:HB2	6:Au:509:LYS:HB3	1.88	0.53
5:Ax:190:THR:HG22	5:Ax:199:VAL:HG12	1.90	0.53
2:B1:41:ILE:HD11	2:B1:361:PHE:HB3	1.90	0.53
2:B2:617:VAL:HG13	2:B2:622:GLU:HB2	1.91	0.53
2:B6:384:GLU:HG2	2:B6:439:ASN:HD21	1.72	0.53
2:B7:100:GLU:HB3	2:B7:188:ILE:HD11	1.90	0.53
7:BL:192:ILE:HD11	7:BL:226:LEU:HD11	1.89	0.53
11:BP:38:VAL:HG11	11:BP:69:ILE:HG12	1.89	0.53
3:Bh:64:ARG:HH12	3:Bk:95:GLN:HG2	1.74	0.53
2:Bs:100:GLU:OE2	2:Bs:186:LYS:NZ	2.36	0.53
2:Bu:509:THR:HB	2:Bu:513:GLN:HB2	1.90	0.53
2:Bv:368:VAL:HG12	2:Bv:370:VAL:HG22	1.90	0.53
2:Bv:373:PHE:HB2	2:Bv:405:VAL:HG22	1.89	0.53
2:Bz:90:LYS:NZ	2:Bz:190:ASP:OD1	2.41	0.53
9:v:36:SER:OG	9:v:74:ARG:NH2	2.41	0.53
2:1:166:ASN:N	2:1:166:ASN:OD1	2.41	0.53
2:1:281:ILE:HD12	2:1:295:LEU:HD12	1.90	0.53
2:1:511:GLN:OE1	2:1:514:ARG:NH2	2.39	0.53
2:4:508:GLU:N	2:4:508:GLU:OE1	2.41	0.53
2:4:550:ARG:HB3	2:4:553:VAL:HG12	1.89	0.53
3:6:17:ARG:HH22	9:AC:47:THR:HG21	1.73	0.53
5:A3:382:GLN:NE2	5:BF:371:MET:SD	2.71	0.53
6:A7:365:ALA:HB2	6:A7:372:GLU:HA	1.90	0.53
6:A8:154:PHE:O	6:A8:248:ASN:ND2	2.40	0.53
6:AV:318:LYS:NZ	6:AV:339:ASP:OD1	2.40	0.53
6:AX:265:GLN:HB3	6:AX:474:LYS:HB3	1.90	0.53
7:Ab:307:LEU:HB2	5:Av:335:TRP:HB2	1.90	0.53
6:Ad:237:GLU:HG2	6:Ad:246:PRO:HA	1.89	0.53
6:Ae:346:ALA:HA	6:Ae:349:SER:HB3	1.90	0.53
6:Ai:105:ASN:O	6:Ai:427:GLN:NE2	2.40	0.53
5:Av:398:ARG:HE	5:BB:379:ARG:NH1	2.06	0.53
2:B1:596:LYS:NZ	2:B1:602:TYR:O	2.42	0.53
2:B3:222:VAL:HG13	2:B3:325:ALA:HB2	1.89	0.53
2:B7:592:LEU:HD23	2:B7:604:TYR:HB2	1.89	0.53
5:BB:44:GLU:OE2	5:BB:197:LYS:NZ	2.40	0.53
7:BE:257:GLU:OE1	7:BE:290:LYS:NZ	2.30	0.53
6:BM:268:ALA:HB1	6:BM:290:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bk:46:VAL:N	3:Bn:135:THR:O	2.33	0.53
2:Bp:37:PRO:HG2	2:Bp:42:LYS:HD2	1.90	0.53
2:Br:380:GLY:H	2:Br:411:ARG:HD2	1.72	0.53
2:Br:400:ARG:NH1	2:Br:403:CYS:SG	2.82	0.53
2:Bs:291:GLN:HE22	2:Bs:320:SER:HB2	1.72	0.53
2:Bu:368:VAL:O	2:Bu:400:ARG:NH2	2.36	0.53
2:By:33:PHE:O	2:By:82:ARG:NH2	2.42	0.53
2:By:41:ILE:HD11	2:By:361:PHE:HB3	1.90	0.53
2:By:453:ASN:HB2	2:By:506:ALA:HB3	1.89	0.53
8:q:155:ASN:O	8:q:157:ILE:N	2.39	0.53
8:s:78:HIS:NE2	8:t:174:GLU:OE1	2.41	0.53
2:1:514:ARG:NH1	2:AO:366:GLU:OE2	2.42	0.53
2:4:647:THR:OG1	2:AL:633:ARG:NH1	2.42	0.53
2:5:209:ASP:O	2:5:213:ASN:ND2	2.29	0.53
2:5:261:ARG:HH21	2:5:337:ILE:HD13	1.72	0.53
5:A2:366:ARG:NH1	5:A2:382:GLN:OE1	2.41	0.53
5:A3:405:LYS:HD2	5:BG:97:SER:HB2	1.90	0.53
3:AI:28:LEU:HD22	3:AI:84:LYS:HB3	1.90	0.53
2:AM:585:ARG:NH2	2:AM:608:CYS:O	2.41	0.53
2:AN:509:THR:HB	2:AN:513:GLN:HB2	1.91	0.53
10:AS:335:TYR:HA	10:AS:338:ARG:HD3	1.90	0.53
6:AZ:252:PHE:N	6:Am:67:GLU:OE2	2.29	0.53
6:AZ:400:LEU:HD11	6:Ad:417:LEU:HD22	1.90	0.53
6:Ad:447:GLY:HA2	6:Ad:482:ASN:HB2	1.91	0.53
6:Ag:131:TYR:HB3	6:Ag:250:MET:HG2	1.90	0.53
6:Ag:374:ASN:N	6:Ag:374:ASN:OD1	2.40	0.53
6:Au:181:PHE:HD1	6:Au:187:THR:HB	1.73	0.53
4:B:62:ILE:HD12	4:G:58:LEU:HD22	1.91	0.53
2:B3:375:ALA:HB3	2:B3:407:CYS:HA	1.90	0.53
2:B3:547:PRO:HD3	2:B6:304:ILE:HB	1.90	0.53
2:B3:654:LEU:HD13	2:B4:605:ARG:HD3	1.89	0.53
2:B5:116:ILE:HD12	2:B5:171:ILE:HG12	1.90	0.53
2:B6:79:ARG:HE	2:B6:370:VAL:HG13	1.73	0.53
2:B7:41:ILE:HD11	2:B7:361:PHE:HB3	1.91	0.53
7:BE:161:PHE:O	5:BG:303:HIS:NE2	2.41	0.53
5:BG:236:VAL:HG13	5:BG:420:ASP:HB3	1.91	0.53
3:Bb:37:LYS:NZ	3:Bb:152:THR:OG1	2.41	0.53
3:Be:114:ARG:HG2	3:Be:126:GLU:HG3	1.89	0.53
3:Bh:44:GLY:O	3:Bk:89:GLN:NE2	2.40	0.53
3:Bl:43:ALA:O	3:Bl:162:TRP:NE1	2.39	0.53
2:Bp:118:VAL:HB	2:Bp:126:GLU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bx:170:GLU:HA	2:Bx:182:ILE:HD11	1.90	0.53
2:Bx:411:ARG:O	2:Bx:415:VAL:HB	2.08	0.53
1:m:76:LEU:HD21	8:t:128:ASP:HB3	1.89	0.53
1:m:101:SER:O	8:u:180:ASN:ND2	2.41	0.53
8:r:85:ASN:HB3	8:r:113:PRO:HB2	1.90	0.53
8:r:164:LYS:NZ	9:v:119:ASN:OD1	2.41	0.53
8:r:240:ARG:HH12	8:r:268:PRO:HG2	1.72	0.53
2:2:110:TYR:CZ	2:2:177:GLY:HA3	2.43	0.53
2:3:304:ILE:HG13	2:3:305:TYR:H	1.74	0.53
3:Al:70:THR:HG22	3:Al:156:THR:HG22	1.89	0.53
2:AM:130:LYS:HZ3	2:AM:132:THR:HA	1.73	0.53
2:AM:470:LEU:HD23	2:AM:525:VAL:HG21	1.90	0.53
2:AN:639:THR:HB	2:B2:624:VAL:HG12	1.90	0.53
2:AN:643:VAL:HG13	2:AO:14:THR:HG22	1.90	0.53
2:AO:135:ASP:N	2:AO:139:LYS:O	2.34	0.53
6:AV:495:ARG:NH1	6:Ap:86:GLY:H	2.05	0.53
6:Ae:131:TYR:HA	6:Ae:250:MET:HA	1.91	0.53
6:Ae:304:ARG:HD3	6:Ae:428:TYR:HD2	1.73	0.53
6:Aj:351:LYS:NZ	6:Aj:390:ASP:O	2.42	0.53
6:Aw:245:ASN:C	6:Aw:247:TRP:H	2.17	0.53
2:B1:538:ASP:HB2	2:B1:551:ILE:HB	1.90	0.53
2:B3:379:ALA:HB2	2:B3:454:TYR:HE2	1.73	0.53
5:BH:209:ASP:HB3	5:BH:227:LYS:HE3	1.90	0.53
6:BI:452:PRO:HA	6:BI:477:TYR:HA	1.91	0.53
3:Ba:23:VAL:HG11	3:Ba:39:THR:HG21	1.91	0.53
3:Ba:58:ILE:HD12	3:Bb:6:VAL:HG21	1.89	0.53
3:Bf:104:PRO:HA	3:Bf:107:TYR:CZ	2.43	0.53
3:Bk:70:THR:HG22	3:Bk:156:THR:HG22	1.91	0.53
3:Bl:39:THR:HG22	3:Bl:71:VAL:HG13	1.90	0.53
2:Bw:423:VAL:HG21	2:Bw:513:GLN:HB3	1.90	0.53
2:Bz:488:TRP:HB3	2:Bz:556:LEU:HD12	1.91	0.53
3:o:74:MET:HA	3:o:152:THR:HG22	1.91	0.53
1:0:245:PHE:HE1	8:q:38:ARG:HD3	1.74	0.53
2:1:642:PHE:HB2	2:2:12:GLU:HG3	1.90	0.53
2:2:573:PHE:HE2	8:r:237:VAL:HG21	1.72	0.53
2:4:401:GLN:NE2	8:t:257:SER:OG	2.41	0.53
2:5:59:ALA:HB2	2:AM:299:ARG:HH22	1.72	0.53
2:5:116:ILE:N	2:5:129:GLY:O	2.42	0.53
3:9:64:ARG:NH2	3:AA:95:GLN:OE1	2.42	0.53
5:A1:379:ARG:NH2	5:A1:400:GLU:OE1	2.42	0.53
3:AA:98:GLU:HA	3:AE:2:PHE:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AG:119:ASP:HA	3:o:101:GLY:HA3	1.90	0.53
2:AO:147:THR:OG1	2:AO:256:PRO:O	2.25	0.53
6:Am:268:ALA:HB3	6:Am:471:MET:HG2	1.89	0.53
7:At:195:ASN:HA	7:At:204:TYR:HD2	1.73	0.53
2:B7:3:LEU:HD11	2:B7:9:GLU:HB2	1.90	0.53
5:BD:38:ASP:HA	5:BD:250:ILE:HD11	1.90	0.53
5:BD:290:GLY:C	5:BD:291:ASN:HD22	2.17	0.53
3:BX:97:ASN:HA	3:Bk:3:VAL:HG12	1.91	0.53
3:Bb:76:ASP:OD1	3:Bb:80:ASP:N	2.37	0.53
3:Bm:23:VAL:HG11	3:Bm:39:THR:HG21	1.91	0.53
3:Bn:129:ILE:HG21	3:Bn:159:LEU:HD22	1.91	0.53
3:Bo:82:ARG:HH12	3:Bo:138:GLY:HA2	1.74	0.53
2:Bq:110:TYR:N	2:Bq:138:GLY:HA3	2.24	0.53
2:Bq:526:THR:OG1	2:Br:366:GLU:OE1	2.25	0.53
2:Br:538:ASP:N	2:Br:538:ASP:OD1	2.40	0.53
2:Bt:2:THR:OG1	2:Bt:3:LEU:N	2.42	0.53
2:Bu:29:LEU:HB3	2:Bu:80:VAL:HG23	1.90	0.53
2:Bw:126:GLU:HA	2:Bw:149:LYS:HD2	1.90	0.53
2:By:391:LYS:HG2	2:By:443:ILE:HD13	1.90	0.53
2:Bz:414:VAL:HG23	2:Bz:422:ALA:HB1	1.89	0.53
2:4:46:ASN:OD1	2:4:46:ASN:N	2.41	0.53
2:5:295:LEU:HA	2:5:309:ILE:HB	1.91	0.53
3:6:56:ARG:NH2	3:8:96:GLY:O	2.37	0.53
5:A1:116:SER:HB3	5:A1:123:LYS:HE2	1.90	0.53
6:A8:182:PHE:HB2	6:A8:184:GLU:O	2.09	0.53
3:AH:19:ASN:OD1	3:AH:19:ASN:N	2.33	0.53
6:AV:148:TYR:HD1	6:AV:186:GLY:H	1.56	0.53
6:AV:384:ASN:HD21	6:AZ:362:VAL:HG21	1.73	0.53
6:AW:336:ASP:HB3	6:AW:339:ASP:HB2	1.90	0.53
7:AY:12:LEU:HD12	7:AY:242:TYR:HD2	1.73	0.53
6:AZ:153:MET:HE1	6:AZ:226:GLU:HB2	1.90	0.53
6:Ad:450:TYR:HA	6:Ad:479:ILE:HG22	1.90	0.53
6:Af:426:ASP:OD2	6:Af:433:TYR:OH	2.27	0.53
6:Ao:278:LEU:HD23	6:Ao:286:ALA:HB2	1.90	0.53
7:Ar:90:THR:OG1	7:Ar:91:ASN:N	2.42	0.53
7:As:161:PHE:HA	7:As:171:LYS:O	2.08	0.53
5:Av:55:ASN:OD1	5:Av:55:ASN:N	2.39	0.53
2:B7:70:ASN:OD1	2:B7:457:GLN:NE2	2.37	0.53
2:B7:151:ILE:O	2:B7:155:LYS:HG2	2.09	0.53
7:BC:13:LYS:HG3	7:BC:34:ILE:HG21	1.91	0.53
3:Bf:3:VAL:HG12	3:Bk:97:ASN:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bn:85:PHE:HB3	3:Bn:137:VAL:HG21	1.91	0.53
2:Br:298:LYS:NZ	2:Br:299:ARG:O	2.40	0.53
4:X:47:PRO:HB2	4:h:48:THR:HG21	1.91	0.53
1:m:175:ILE:HB	8:t:72:LEU:HD23	1.89	0.53
2:5:417:ILE:H	2:5:417:ILE:HD13	1.73	0.53
5:A1:45:VAL:HG12	5:A1:46:SER:H	1.73	0.53
5:A3:312:VAL:HG13	5:A3:321:ILE:HG23	1.90	0.53
5:A3:423:LYS:HG3	5:A3:437:TRP:CD1	2.44	0.53
6:A7:247:TRP:CH2	6:AW:265:GLN:HB3	2.44	0.53
3:AH:11:GLU:OE1	2:AN:486:GLN:NE2	2.41	0.53
3:AJ:97:ASN:HA	3:Bg:3:VAL:HG12	1.90	0.53
2:AM:101:TYR:O	2:AM:216:LYS:NZ	2.38	0.53
2:AO:159:GLU:HB3	2:AO:163:LEU:HA	1.89	0.53
2:AP:23:SER:OG	2:AP:74:TYR:O	2.27	0.53
6:AZ:459:LEU:HD11	6:AZ:474:LYS:HG2	1.91	0.53
6:Af:356:GLN:NE2	6:Af:360:GLU:OE2	2.41	0.53
6:Ai:264:ARG:NH1	6:Ai:477:TYR:OH	2.42	0.53
6:Au:270:TYR:HB3	6:Au:290:LEU:HD12	1.90	0.53
2:B1:45:THR:OG1	2:B1:49:ASP:OD2	2.25	0.53
2:B4:246:LYS:HB2	2:B4:250:ALA:HB2	1.91	0.53
2:B5:163:LEU:HG	2:B5:187:ILE:HG12	1.90	0.53
2:B5:375:ALA:HB3	2:B5:407:CYS:HA	1.91	0.53
2:B6:205:MET:O	2:B6:211:GLN:NE2	2.42	0.53
2:B7:490:SER:O	2:B7:496:ARG:NH1	2.41	0.53
5:BA:454:PHE:CE2	5:BA:458:LYS:HD2	2.44	0.53
7:BC:40:ARG:HH21	7:BC:254:LEU:HD22	1.73	0.53
7:BC:88:LEU:HD13	7:BC:183:ILE:HG22	1.90	0.53
5:BF:210:THR:O	5:BF:213:GLU:HB2	2.08	0.53
5:BH:249:ASN:OD1	5:BH:250:ILE:N	2.42	0.53
6:BI:365:ALA:HB2	6:BI:372:GLU:HA	1.91	0.53
3:BY:97:ASN:O	3:BI:3:VAL:N	2.37	0.53
3:Bd:55:ASN:HB2	3:Bh:20:LEU:HD21	1.90	0.53
3:Bg:85:PHE:HB3	3:Bg:137:VAL:HG21	1.89	0.53
3:Bl:24:GLU:OE1	3:Bl:33:THR:OG1	2.26	0.53
2:Br:70:ASN:ND2	2:Br:457:GLN:OE1	2.41	0.53
2:Bt:474:ILE:HG22	2:Bt:535:LEU:HD11	1.90	0.53
2:Bu:273:PRO:HB3	2:Bu:278:GLN:HB2	1.89	0.53
2:Bx:99:ILE:HD12	2:Bx:150:ILE:HD13	1.90	0.53
2:Bz:198:ILE:HD11	2:Bz:225:LEU:HD11	1.91	0.53
4:c:48:THR:HG21	4:h:47:PRO:HB2	1.90	0.53
1:m:11:LYS:HG3	1:m:15:ARG:HH21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:6:LYS:NZ	1:p:23:GLU:OE2	2.41	0.53
2:3:514:ARG:NH1	2:AK:364:ASP:OD1	2.27	0.53
6:AW:498:SER:O	6:AW:505:ASN:ND2	2.42	0.53
7:AY:163:PHE:HA	7:AY:170:LEU:HA	1.90	0.53
6:Ac:341:ARG:NH1	6:Aw:521:ILE:O	2.41	0.53
6:Ae:139:GLY:O	6:Ae:141:LYS:NZ	2.40	0.53
6:Af:322:THR:OG1	6:Af:514:ARG:NH2	2.41	0.53
6:Ag:93:PRO:O	6:Ak:123:GLN:NE2	2.42	0.53
6:Ag:260:GLU:OE1	6:Ag:261:ALA:N	2.42	0.53
6:Ai:343:ALA:HB1	6:Ai:348:GLU:HB2	1.90	0.53
2:B1:590:GLN:NE2	3:Bh:108:LYS:O	2.40	0.53
2:B2:82:ARG:NH1	2:B2:227:PRO:O	2.40	0.53
5:BF:401:LEU:HD22	5:BF:405:LYS:HE3	1.91	0.53
5:BH:376:PRO:HG2	5:BH:379:ARG:HG3	1.90	0.53
6:BK:351:LYS:HA	6:BK:354:LEU:HD12	1.91	0.53
3:Bb:54:MET:HE1	3:Bf:22:GLN:HG3	1.90	0.53
2:Bs:20:VAL:HG21	2:Bs:46:ASN:HD21	1.74	0.53
2:Bs:26:THR:HA	2:Bs:77:ASP:O	2.08	0.53
2:By:116:ILE:N	2:By:129:GLY:O	2.42	0.53
2:By:521:ALA:HB1	2:By:541:ALA:HA	1.90	0.53
2:Bz:117:THR:HG23	2:Bz:127:THR:HG22	1.91	0.53
4:J:44:MET:HG2	4:L:44:MET:HE1	1.91	0.53
1:k:172:GLY:HA3	8:r:183:ARG:HH12	1.72	0.53
1:n:11:LYS:HG3	1:n:15:ARG:HH21	1.73	0.53
9:y:129:ASN:OD1	9:y:129:ASN:N	2.41	0.53
2:1:592:LEU:HD23	2:1:604:TYR:HB2	1.89	0.53
2:2:23:SER:OG	2:2:483:ASN:OD1	2.27	0.53
5:A1:158:PHE:HB2	5:A1:236:VAL:HB	1.91	0.53
5:A1:459:GLU:OE2	5:BD:453:TYR:OH	2.20	0.53
5:A2:319:GLY:O	7:BL:70:LYS:NZ	2.42	0.53
6:A4:301:GLU:OE1	6:A5:155:SER:OG	2.25	0.53
3:AE:114:ARG:HG2	3:AE:126:GLU:HG3	1.90	0.53
2:AN:490:SER:O	2:AN:496:ARG:NH1	2.41	0.53
6:AV:74:TYR:HD2	6:AZ:500:MET:HE1	1.73	0.53
6:AZ:452:PRO:HA	6:AZ:477:TYR:HA	1.89	0.53
7:Aa:29:LEU:HD21	7:Aa:259:ASN:HB2	1.90	0.53
6:Ac:290:LEU:HD21	6:Ag:251:GLY:HA2	1.91	0.53
6:Ac:315:GLN:OE1	6:Ac:514:ARG:NH1	2.41	0.53
6:Ai:442:ASN:OD1	6:Ai:443:GLU:N	2.42	0.53
7:Ar:303:PRO:HG3	5:Ax:289:THR:HG22	1.91	0.53
7:As:152:GLN:NE2	7:As:156:SER:OG	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Av:183:GLN:HE21	5:Av:207:ILE:HD11	1.74	0.53
6:Az:148:TYR:HD1	6:Az:186:GLY:HA2	1.73	0.53
2:B2:455:LYS:NZ	2:B2:457:GLN:OE1	2.42	0.53
2:B3:510:ARG:HE	2:B4:363:ALA:HB3	1.74	0.53
2:B5:36:GLY:O	2:B5:82:ARG:NH1	2.42	0.53
5:BG:355:ASN:ND2	5:BG:359:MET:SD	2.82	0.53
5:BH:8:LEU:H	5:BH:8:LEU:HD12	1.73	0.53
3:BZ:82:ARG:HH12	3:BZ:138:GLY:HA2	1.74	0.53
3:Be:115:GLN:OE1	3:Bh:79:HIS:NE2	2.42	0.53
3:Bf:25:ILE:O	3:Bf:27:TYR:N	2.42	0.53
3:Bh:54:MET:HE1	3:Bl:22:GLN:HG3	1.90	0.53
2:Br:391:LYS:HG2	2:Br:443:ILE:HD13	1.90	0.53
2:Bs:205:MET:HE1	2:Bs:221:GLY:HA3	1.91	0.53
2:Bs:440:ASN:OD1	2:Bs:440:ASN:N	2.41	0.53
2:Bt:119:LYS:HE3	2:Bt:122:SER:HA	1.91	0.53
2:Bt:487:THR:HG21	2:Bt:559:MET:HE3	1.91	0.53
4:C:76:ILE:HB	4:S:76:ILE:HD11	1.91	0.53
9:y:118:ASP:HB3	9:y:123:GLU:HG3	1.91	0.53
2:2:620:ARG:NH2	8:r:266:GLU:O	2.42	0.53
3:6:72:THR:HG22	3:6:154:GLU:HG2	1.89	0.53
5:A3:367:GLN:OE1	5:BG:382:GLN:NE2	2.41	0.53
6:A5:318:LYS:HG3	6:A5:516:VAL:HG11	1.91	0.53
6:A8:228:MET:HE3	6:A8:233:ALA:HB2	1.90	0.53
3:AI:83:GLN:HA	3:AI:86:VAL:HG22	1.91	0.53
2:AM:454:TYR:HB3	2:AM:467:TRP:HD1	1.74	0.53
2:AM:550:ARG:HB3	2:AM:553:VAL:HG12	1.91	0.53
2:AN:412:GLU:HA	2:AN:415:VAL:HG12	1.90	0.53
2:AO:459:ASP:OD2	2:AO:466:ARG:NH1	2.42	0.53
10:AQ:345:MET:HE3	10:AQ:364:LYS:HG3	1.90	0.53
6:Ad:278:LEU:HD12	6:Ad:286:ALA:HB2	1.90	0.53
6:Ah:257:GLN:NE2	6:Ah:481:ILE:O	2.42	0.53
6:Ak:120:PRO:HD3	6:Ak:453:TYR:CZ	2.44	0.53
6:An:182:PHE:HB2	6:An:184:GLU:O	2.09	0.53
6:Ao:113:GLY:H	6:Ao:446:ALA:HB3	1.73	0.53
6:Ao:365:ALA:HB2	6:Ao:372:GLU:HA	1.91	0.53
6:Ao:495:ARG:NH2	6:BK:87:ALA:O	2.43	0.53
5:Av:188:ILE:HG22	5:Av:202:TYR:HB3	1.90	0.53
6:Aw:117:MET:HG3	6:Aw:451:ALA:HB1	1.91	0.53
6:Aw:379:SER:OG	6:Aw:432:ASP:OD1	2.25	0.53
5:Ax:454:PHE:CZ	5:Ax:458:LYS:HD2	2.44	0.53
6:Ay:190:LEU:HB3	6:Ay:221:LEU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Az:269:ALA:HA	6:Az:470:VAL:HA	1.91	0.53
2:B2:490:SER:O	2:B2:496:ARG:NH1	2.35	0.53
2:B6:642:PHE:CZ	2:B7:561:LYS:HG2	2.43	0.53
2:B7:378:CYS:SG	2:B7:454:TYR:OH	2.56	0.53
2:B7:568:SER:HA	2:B7:571:ARG:HG2	1.89	0.53
6:BK:344:ARG:NH2	6:BK:348:GLU:OE2	2.42	0.53
7:BL:12:LEU:HD12	7:BL:242:TYR:HD2	1.74	0.53
3:Bd:54:MET:HB2	3:Bh:20:LEU:HD23	1.91	0.53
3:Be:39:THR:HG22	3:Be:71:VAL:HG13	1.91	0.53
2:Bp:272:GLY:O	2:Bp:274:GLN:NE2	2.42	0.53
2:Bq:234:ILE:HB	2:Bq:340:LEU:HD12	1.89	0.53
2:By:446:THR:OG1	2:By:554:ARG:NH2	2.41	0.53
1:n:61:VAL:HB	1:n:137:LEU:HB2	1.91	0.53
1:p:154:PRO:HA	1:p:167:ARG:HD3	1.91	0.53
2:2:240:SER:OG	2:2:334:PHE:O	2.27	0.52
2:5:22:ASN:ND2	2:5:76:ASN:OD1	2.42	0.52
5:A0:236:VAL:HG13	5:A0:420:ASP:HB3	1.89	0.52
5:A3:282:ARG:HA	5:BF:278:ARG:HH22	1.74	0.52
7:A6:268:GLY:HA3	7:BL:275:VAL:HA	1.90	0.52
7:A6:270:MET:HE2	1:n:157:PRO:HB3	1.90	0.52
6:A7:314:ALA:HA	6:A7:513:PHE:HB2	1.92	0.52
2:AM:655:THR:HB	2:AN:19:VAL:HG21	1.91	0.52
7:AY:159:PRO:HB3	7:AY:174:GLY:O	2.08	0.52
6:AZ:125:PHE:HZ	6:Am:91:ILE:HA	1.74	0.52
6:Ak:521:ILE:O	6:Ao:359:LYS:NZ	2.32	0.52
6:An:263:SER:HB3	6:An:476:ARG:HG2	1.91	0.52
7:Aq:162:TRP:NE1	7:As:54:ASN:HA	2.23	0.52
2:B1:54:PHE:HE2	2:B1:82:ARG:HB2	1.74	0.52
2:B1:102:THR:HB	2:B1:183:THR:HB	1.91	0.52
2:B3:417:ILE:HD13	2:B3:417:ILE:H	1.72	0.52
2:B4:70:ASN:ND2	2:B4:457:GLN:OE1	2.39	0.52
2:B7:284:ARG:HG2	2:B7:289:ILE:HD13	1.90	0.52
7:BE:12:LEU:O	7:BE:16:ILE:HG12	2.08	0.52
6:BJ:452:PRO:HA	6:BJ:477:TYR:HA	1.90	0.52
3:Bh:55:ASN:OD1	3:Bl:19:ASN:ND2	2.42	0.52
2:Bs:639:THR:HB	2:Bt:624:VAL:HG12	1.90	0.52
2:Bt:261:ARG:HH12	2:Bt:337:ILE:HG21	1.72	0.52
2:Bu:32:LYS:HD2	2:Bu:350:VAL:HG11	1.92	0.52
2:Bu:110:TYR:CE1	2:Bu:171:ILE:HG21	2.44	0.52
2:By:273:PRO:HB3	2:By:278:GLN:HB2	1.90	0.52
1:k:152:VAL:HG22	1:k:169:ILE:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:467:TRP:CZ3	2:AO:199:GLU:HB2	2.45	0.52
2:4:496:ARG:NH2	2:AL:573:PHE:O	2.35	0.52
3:6:97:ASN:HB2	3:o:161:TYR:CZ	2.44	0.52
3:7:14:ASP:OD1	3:7:15:PHE:N	2.42	0.52
5:A0:289:THR:HB	5:A0:292:MET:HE3	1.91	0.52
5:A3:289:THR:HB	5:A3:292:MET:HE3	1.91	0.52
6:A4:142:GLU:OE2	6:A9:101:ARG:NE	2.38	0.52
2:AL:117:THR:HG23	2:AL:127:THR:HG22	1.91	0.52
2:AM:432:ALA:HB2	2:AM:440:ASN:HD22	1.75	0.52
2:AO:550:ARG:HB3	2:AO:553:VAL:HG12	1.91	0.52
2:AP:209:ASP:OD1	2:AP:209:ASP:N	2.37	0.52
6:Ae:120:PRO:HD3	6:Ae:453:TYR:CZ	2.44	0.52
6:Ae:344:ARG:HH21	6:Ay:344:ARG:HD3	1.74	0.52
6:Ae:351:LYS:NZ	6:Ae:390:ASP:O	2.42	0.52
6:Ae:435:THR:HG23	6:Ae:515:ARG:HB3	1.91	0.52
6:Ai:130:VAL:HG12	6:Ai:142:GLU:HA	1.91	0.52
6:Au:384:ASN:HD21	6:Ay:362:VAL:HG21	1.74	0.52
5:Av:69:MET:N	5:Av:69:MET:SD	2.81	0.52
6:Az:131:TYR:HE1	6:Az:141:LYS:HG3	1.74	0.52
6:Az:270:TYR:HB3	6:Az:290:LEU:HD12	1.91	0.52
2:B1:373:PHE:HB2	2:B1:405:VAL:HG22	1.91	0.52
2:B6:240:SER:OG	2:B6:243:ASP:OD1	2.27	0.52
6:BJ:107:ILE:O	6:BJ:303:ASN:ND2	2.40	0.52
6:BJ:343:ALA:HB1	6:BJ:348:GLU:HG3	1.91	0.52
7:BL:76:LEU:HB2	7:BL:168:GLU:HG3	1.91	0.52
6:BM:336:ASP:HB3	6:BM:339:ASP:HB2	1.90	0.52
6:BM:449:TYR:OH	6:BM:482:ASN:OD1	2.24	0.52
2:Bw:456:TYR:HB3	2:Bw:503:ILE:HG12	1.91	0.52
2:Bw:505:LEU:HD21	2:Bw:525:VAL:HG12	1.92	0.52
2:By:462:ASN:HB2	2:By:464:VAL:HG22	1.90	0.52
4:c:62:ILE:HD12	4:h:58:LEU:HD22	1.90	0.52
8:s:228:GLY:O	8:s:258:ASN:ND2	2.42	0.52
1:0:78:ASN:ND2	1:0:179:GLU:OE1	2.42	0.52
1:0:243:LYS:H	8:AB:4:TYR:H	1.57	0.52
2:2:57:PRO:HG3	2:2:65:PHE:CD1	2.44	0.52
2:2:97:GLY:O	2:2:147:THR:OG1	2.25	0.52
2:3:126:GLU:HG2	2:3:146:PRO:HD2	1.91	0.52
2:5:278:GLN:HG2	2:5:296:SER:HB3	1.92	0.52
2:5:430:ARG:HG3	2:5:522:ILE:HD11	1.90	0.52
5:A3:82:LEU:HD23	5:A3:254:LEU:HD22	1.90	0.52
6:A9:322:THR:OG1	6:A9:514:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A9:443:GLU:HG3	5:Ax:70:LYS:HD3	1.90	0.52
6:AW:105:ASN:HB2	6:AW:412:VAL:HG13	1.91	0.52
7:Ab:160:ASP:OD1	7:Ab:160:ASP:N	2.36	0.52
6:Ac:299:MET:HA	6:Ac:302:ILE:HD12	1.89	0.52
6:Ae:226:GLU:O	6:Ay:264:ARG:NH1	2.42	0.52
6:Ag:500:MET:O	6:Ag:505:ASN:ND2	2.41	0.52
6:Ai:474:LYS:NZ	6:Am:234:GLU:OE2	2.42	0.52
6:Aj:318:LYS:NZ	6:Aj:356:GLN:OE1	2.36	0.52
7:Aq:159:PRO:HB3	7:Aq:174:GLY:O	2.09	0.52
6:Au:350:PHE:HB2	6:Au:389:VAL:HG11	1.91	0.52
2:B1:152:ALA:O	2:B1:156:GLU:HG2	2.10	0.52
2:B3:162:THR:HA	2:B3:186:LYS:HB2	1.91	0.52
2:B3:261:ARG:HH12	2:B3:337:ILE:HG13	1.74	0.52
5:BA:136:HIS:NE2	5:BA:171:ILE:O	2.42	0.52
5:BA:209:ASP:HB3	5:BA:227:LYS:HE2	1.90	0.52
7:BC:159:PRO:HB3	7:BC:174:GLY:O	2.10	0.52
7:BC:270:MET:HA	7:BC:276:THR:HG22	1.92	0.52
6:BM:233:ALA:HA	6:BM:236:GLN:HG3	1.92	0.52
3:Bf:90:SER:HA	3:Bf:94:GLY:H	1.74	0.52
3:Bo:25:ILE:O	3:Bo:27:TYR:N	2.42	0.52
2:Bq:269:PHE:HE1	2:Bq:282:ILE:HG12	1.73	0.52
2:Bv:152:ALA:O	2:Bv:156:GLU:HG2	2.10	0.52
2:Bw:110:TYR:HE1	2:Bw:171:ILE:HG21	1.73	0.52
2:Bw:232:ASP:OD2	2:Bw:342:GLY:N	2.43	0.52
1:k:52:GLN:NE2	1:l:21:THR:O	2.43	0.52
1:n:152:VAL:HG22	1:n:169:ILE:HG23	1.91	0.52
9:z:91:MET:HG3	9:z:135:VAL:HB	1.90	0.52
2:1:253:PRO:HA	2:1:260:THR:HG22	1.90	0.52
5:A2:244:ASP:OD1	5:A2:245:CYS:N	2.37	0.52
6:A8:466:ASN:OD1	6:A8:466:ASN:N	2.39	0.52
6:A9:290:LEU:HD11	6:Aj:67:GLU:HG3	1.91	0.52
2:AD:424:ASP:OD1	2:AD:516:ARG:NH2	2.42	0.52
3:AE:37:LYS:NZ	3:AE:152:THR:OG1	2.41	0.52
2:AL:43:GLN:NE2	2:AL:77:ASP:OD2	2.43	0.52
2:AN:66:MET:O	2:AN:70:ASN:ND2	2.29	0.52
2:AO:378:CYS:SG	2:AO:454:TYR:OH	2.65	0.52
2:AO:498:GLN:HA	2:AO:534:VAL:HG12	1.92	0.52
2:AP:302:LYS:O	2:AP:307:SER:N	2.43	0.52
6:AW:404:PHE:HB3	6:AW:414:ALA:HB1	1.92	0.52
6:AX:336:ASP:HB3	6:AX:339:ASP:HB2	1.91	0.52
6:Aj:145:HIS:CD2	6:Aj:146:PRO:HD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Al:22:ALA:HB1	7:Al:23:PRO:HD2	1.91	0.52
6:Au:226:GLU:OE2	6:BJ:262:LYS:NZ	2.43	0.52
2:B1:42:LYS:NZ	2:B1:43:GLN:O	2.33	0.52
5:BD:126:MET:HG2	5:BD:426:LEU:HD11	1.91	0.52
6:BJ:466:ASN:ND2	6:BJ:468:GLN:OE1	2.42	0.52
6:BM:365:ALA:HB2	6:BM:372:GLU:HA	1.90	0.52
3:Bb:25:ILE:HG23	3:Bb:111:ALA:HB2	1.91	0.52
2:Bq:451:ASP:OD1	2:Bq:452:GLY:N	2.38	0.52
1:n:25:GLU:HG3	1:n:26:ILE:H	1.74	0.52
8:q:105:VAL:HG21	8:q:208:LEU:HD12	1.91	0.52
9:v:15:THR:OG1	9:v:16:ASN:N	2.42	0.52
9:z:118:ASP:O	9:z:120:SER:N	2.39	0.52
2:1:450:ILE:HD13	2:1:522:ILE:HG12	1.92	0.52
2:2:642:PHE:HB2	2:3:12:GLU:HG3	1.91	0.52
2:5:195:LEU:HD23	2:5:225:LEU:HA	1.91	0.52
5:A2:210:THR:HA	5:A2:213:GLU:HB2	1.91	0.52
6:A5:145:HIS:ND1	6:A5:146:PRO:O	2.43	0.52
2:AD:57:PRO:HG3	2:AD:65:PHE:CD1	2.44	0.52
2:AN:346:SER:O	2:AN:348:ALA:N	2.43	0.52
6:Ac:264:ARG:NH1	6:Ac:305:GLU:OE1	2.38	0.52
6:Ay:379:SER:OG	6:Ay:432:ASP:OD1	2.23	0.52
2:B2:10:LEU:HD13	2:Bz:561:LYS:HD2	1.92	0.52
2:B3:84:VAL:HG13	2:B3:346:SER:HB3	1.92	0.52
2:B7:285:ARG:HG2	2:B7:286:ASN:HD22	1.75	0.52
6:BK:317:GLY:HA2	6:BK:514:ARG:HE	1.74	0.52
11:BW:10:ILE:HG12	11:BW:48:THR:HB	1.92	0.52
3:Bj:94:GLY:HA3	3:Bj:100:THR:HG23	1.92	0.52
2:Bp:401:GLN:O	2:Bp:561:LYS:NZ	2.42	0.52
2:Bw:373:PHE:HB2	2:Bw:405:VAL:HG22	1.92	0.52
4:O:23:SER:OG	4:O:26:LYS:NZ	2.42	0.52
1:k:57:GLU:HG3	1:l:27:LEU:HD12	1.91	0.52
1:l:152:VAL:HG22	1:l:169:ILE:HG23	1.90	0.52
1:m:154:PRO:HG3	8:s:59:ILE:HG22	1.91	0.52
1:m:188:ASN:OD1	1:m:189:GLU:N	2.39	0.52
8:q:72:LEU:O	8:q:74:ARG:N	2.42	0.52
8:q:76:ASN:ND2	8:q:121:SER:HB2	2.25	0.52
2:1:35:TRP:HB2	2:1:230:LEU:HD12	1.92	0.52
3:7:56:ARG:NH2	3:9:96:GLY:O	2.36	0.52
5:A0:293:PRO:O	5:A0:295:ARG:N	2.42	0.52
5:A1:256:ARG:NH1	5:BD:89:ASP:OD2	2.43	0.52
5:A2:39:GLY:HA3	5:A2:250:ILE:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A4:456:LEU:HA	6:A4:475:THR:HG22	1.90	0.52
7:A6:12:LEU:HD12	7:A6:242:TYR:HD2	1.75	0.52
7:A6:54:ASN:HA	7:A1:162:TRP:NE1	2.25	0.52
3:A1:97:ASN:HA	3:Bd:3:VAL:HG12	1.91	0.52
2:AM:494:TYR:O	2:AM:498:GLN:NE2	2.42	0.52
10:AS:344:MET:HG2	10:AS:351:VAL:HG11	1.91	0.52
7:A1:34:ILE:O	7:A1:38:ILE:HG12	2.09	0.52
6:An:305:GLU:HA	6:BK:225:ALA:HB3	1.91	0.52
7:Ar:202:VAL:HG13	4:h:31:ILE:HG22	1.92	0.52
7:As:104:TYR:HB2	7:As:106:TRP:HD1	1.74	0.52
6:Au:217:GLU:OE2	6:BJ:431:GLN:NE2	2.43	0.52
5:Av:348:ASP:OD1	5:Av:349:THR:N	2.40	0.52
2:B3:391:LYS:NZ	2:B3:440:ASN:O	2.42	0.52
5:BA:63:GLY:HA2	5:BA:65:TYR:CZ	2.44	0.52
5:BB:455:ALA:O	5:BB:459:GLU:HG2	2.09	0.52
5:BD:244:ASP:OD1	5:BD:245:CYS:N	2.42	0.52
5:BF:39:GLY:H	5:BF:250:ILE:HD11	1.74	0.52
5:BF:113:LEU:O	5:BF:123:LYS:NZ	2.37	0.52
6:BI:264:ARG:NH1	6:BI:477:TYR:HH	2.07	0.52
6:BI:426:ASP:OD2	6:BI:433:TYR:OH	2.24	0.52
6:BK:266:LEU:HD12	6:BK:298:ILE:HG13	1.90	0.52
2:Br:66:MET:HG2	2:Br:468:VAL:HG21	1.92	0.52
2:Br:383:LEU:HD22	2:Br:439:ASN:HB3	1.92	0.52
2:Bs:131:ILE:HD11	2:Bs:171:ILE:HD13	1.89	0.52
2:Bv:254:ILE:HG22	2:Bv:257:GLY:H	1.74	0.52
2:Bw:332:GLU:OE1	2:Bw:332:GLU:N	2.42	0.52
2:Bz:118:VAL:HB	2:Bz:126:GLU:HB3	1.91	0.52
2:Bz:451:ASP:OD2	2:Bz:470:LEU:HB3	2.10	0.52
4:K:52:LEU:HD21	4:L:12:ASP:HB2	1.90	0.52
3:o:23:VAL:HG13	3:o:36:CYS:SG	2.49	0.52
9:z:129:ASN:OD1	9:z:129:ASN:N	2.42	0.52
2:2:273:PRO:HB3	2:2:278:GLN:HB2	1.91	0.52
2:3:116:ILE:HG21	2:3:143:ILE:HD12	1.91	0.52
2:3:278:GLN:HG2	2:3:296:SER:HB3	1.92	0.52
2:3:310:TYR:O	2:3:314:PHE:CB	2.57	0.52
3:6:14:ASP:OD1	3:6:15:PHE:N	2.42	0.52
5:A2:91:ALA:HB1	5:A2:375:VAL:HG21	1.92	0.52
5:A2:423:LYS:HG3	5:A2:437:TRP:CD1	2.45	0.52
5:A3:62:PHE:HB2	6:AV:422:ARG:HH11	1.75	0.52
8:AB:22:SER:HB2	1:p:221:VAL:HG13	1.92	0.52
3:AF:4:ASP:OD2	2:AL:593:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:97:GLY:O	2:AK:147:THR:OG1	2.23	0.52
2:AK:118:VAL:HB	2:AK:126:GLU:HB3	1.91	0.52
2:AL:154:ALA:HA	2:AL:157:VAL:HG22	1.92	0.52
7:Ab:81:VAL:HG22	7:Ab:188:THR:HG22	1.91	0.52
6:Ac:351:LYS:NZ	6:Ac:390:ASP:O	2.41	0.52
6:Af:520:GLY:O	6:Aj:341:ARG:NH2	2.39	0.52
6:Ah:383:VAL:HG21	6:Ah:425:ILE:HG12	1.91	0.52
6:Ai:154:PHE:O	6:Ai:248:ASN:ND2	2.35	0.52
6:Ak:344:ARG:H	6:Ak:344:ARG:HE	1.56	0.52
7:Al:125:CYS:SG	7:Al:126:ASN:N	2.82	0.52
6:Am:268:ALA:HB1	6:Am:290:LEU:HD22	1.91	0.52
7:As:104:TYR:HB2	7:As:106:TRP:CD1	2.43	0.52
7:At:163:PHE:HA	7:At:170:LEU:HA	1.91	0.52
6:Aw:127:LEU:HD11	6:Aw:252:PHE:HB2	1.92	0.52
2:B2:527:GLY:HA2	2:B2:533:TYR:HD2	1.73	0.52
2:B4:91:ASN:N	2:B4:193:ILE:O	2.42	0.52
7:BC:213:TRP:O	7:BC:218:ARG:NH2	2.42	0.52
6:BJ:494:SER:C	6:BJ:496:ILE:H	2.18	0.52
3:Bd:8:ARG:HG2	3:Bg:31:ASN:HB3	1.91	0.52
3:Bh:39:THR:HG22	3:Bh:71:VAL:HG13	1.92	0.52
3:Bl:129:ILE:HG23	3:Bl:162:TRP:HB3	1.90	0.52
3:Bo:25:ILE:HD12	3:Bo:28:LEU:HD12	1.92	0.52
2:Bp:454:TYR:HB3	2:Bp:467:TRP:CD1	2.41	0.52
2:Bx:453:ASN:HD21	2:Bx:525:VAL:H	1.57	0.52
4:g:9:PRO:HD3	4:g:57:VAL:HG21	1.90	0.52
1:n:164:ASN:ND2	1:n:164:ASN:O	2.42	0.52
1:p:25:GLU:HG3	1:p:26:ILE:H	1.74	0.52
2:4:408:SER:HB2	2:4:471:ALA:HB3	1.92	0.52
5:A0:31:ILE:H	5:A0:31:ILE:HD13	1.74	0.52
5:A1:454:PHE:CZ	5:A1:458:LYS:HD2	2.45	0.52
5:A3:209:ASP:N	5:A3:209:ASP:OD1	2.40	0.52
7:A6:66:GLU:HA	7:A6:69:TYR:HB3	1.91	0.52
8:AB:203:ASP:OD1	8:AB:204:ASP:N	2.43	0.52
3:AJ:19:ASN:OD1	3:AJ:19:ASN:N	2.31	0.52
2:AL:51:VAL:HG22	2:AL:65:PHE:HZ	1.75	0.52
6:Am:345:TRP:CE3	6:BJ:348:GLU:HB2	2.44	0.52
6:Am:365:ALA:HB2	6:Am:372:GLU:HA	1.92	0.52
6:An:350:PHE:HB2	6:An:389:VAL:HG11	1.92	0.52
6:An:426:ASP:OD2	6:An:433:TYR:OH	2.23	0.52
6:Aw:120:PRO:HD3	6:Aw:453:TYR:CZ	2.45	0.52
2:B3:284:ARG:HG2	2:B3:289:ILE:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:455:LYS:HB2	2:B3:470:LEU:HD13	1.92	0.52
2:B4:36:GLY:O	2:B4:82:ARG:NH1	2.43	0.52
5:BB:463:LEU:HD13	5:BB:466:ARG:HH21	1.74	0.52
5:BD:423:LYS:HG3	5:BD:437:TRP:CD1	2.45	0.52
7:BE:13:LYS:HG3	7:BE:34:ILE:HG21	1.91	0.52
6:BM:71:ASP:OD1	6:BM:72:HIS:N	2.42	0.52
3:Be:80:ASP:OD1	3:Be:84:LYS:NZ	2.42	0.52
3:Bg:72:THR:HG22	3:Bg:154:GLU:HG3	1.92	0.52
3:Bj:17:ARG:HG3	3:Bj:20:LEU:HD12	1.91	0.52
2:Bq:391:LYS:NZ	2:Bq:440:ASN:O	2.43	0.52
2:Bs:28:ALA:HB2	2:Bs:370:VAL:HG21	1.90	0.52
2:Bv:70:ASN:OD1	2:Bv:457:GLN:NE2	2.43	0.52
1:p:97:GLU:OE1	1:p:97:GLU:N	2.43	0.52
9:w:56:LEU:O	9:y:97:TYR:HB3	2.10	0.52
3:7:114:ARG:HG2	3:7:126:GLU:HG3	1.91	0.52
3:9:83:GLN:HA	3:9:86:VAL:HG22	1.92	0.52
3:9:94:GLY:HA3	3:9:100:THR:HB	1.91	0.52
6:A5:107:ILE:HA	6:A5:412:VAL:HG21	1.91	0.52
7:A6:124:SER:HA	5:BF:77:ASP:HB3	1.92	0.52
6:A8:387:ALA:HB2	6:A8:404:PHE:HB2	1.92	0.52
8:AB:248:ASP:OD1	8:AB:248:ASP:N	2.42	0.52
2:AD:353:GLY:HA2	2:AD:356:MET:HG2	1.92	0.52
2:AM:35:TRP:HH2	2:AM:224:ALA:HB1	1.75	0.52
2:AP:44:VAL:HG11	2:AP:50:LEU:HB2	1.92	0.52
2:AP:455:LYS:HD3	2:AP:502:VAL:HG13	1.92	0.52
10:AT:309:TRP:HB2	10:AT:357:ARG:HG3	1.91	0.52
7:Ab:138:LEU:HB3	5:Ax:273:ILE:HD11	1.91	0.52
6:Ac:261:ALA:HA	6:Ac:478:GLY:HA3	1.92	0.52
6:Ag:264:ARG:NH1	6:Ag:477:TYR:HH	2.08	0.52
6:Ag:351:LYS:HG3	6:Ag:354:LEU:HD12	1.91	0.52
6:Ao:269:ALA:HA	6:Ao:470:VAL:HA	1.91	0.52
7:Ar:90:THR:HB	7:Ar:183:ILE:HD13	1.91	0.52
5:Ax:206:PHE:HE2	5:Ax:232:LYS:HG2	1.75	0.52
2:B5:34:GLN:NE2	2:B5:58:THR:OG1	2.43	0.52
5:BA:292:MET:HE3	5:BA:297:ALA:HA	1.91	0.52
5:BA:474:GLU:O	5:BA:477:ILE:HG13	2.09	0.52
5:BB:258:VAL:O	5:BB:262:ASN:ND2	2.43	0.52
7:BL:248:LYS:O	7:BL:252:THR:OG1	2.26	0.52
3:BY:97:ASN:HA	3:Bl:3:VAL:HG12	1.92	0.52
2:Bq:455:LYS:NZ	2:Bq:473:ASP:OD2	2.43	0.52
2:Bu:159:GLU:HB3	2:Bu:163:LEU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bv:451:ASP:OD1	2:Bv:452:GLY:N	2.37	0.52
2:Bx:163:LEU:HD11	2:Bx:187:ILE:HG12	1.92	0.52
2:By:454:TYR:HB3	2:By:467:TRP:HD1	1.74	0.52
2:Bz:365:ARG:HB2	2:Bz:400:ARG:HG3	1.90	0.52
4:W:34:ALA:HA	4:W:41:GLU:HG2	1.91	0.52
4:Z:35:ASP:OD1	4:e:27:ASN:ND2	2.43	0.52
1:m:166:ILE:O	1:m:167:ARG:NH1	2.42	0.52
8:r:168:MET:HG3	8:r:193:GLU:HB2	1.91	0.52
2:1:394:VAL:HG11	2:1:443:ILE:HG21	1.91	0.52
2:3:63:ASP:OD2	2:3:379:ALA:HB3	2.10	0.52
2:4:17:SER:O	2:4:460:LYS:NZ	2.43	0.52
5:A0:156:ILE:HG22	5:A0:238:ALA:HB3	1.92	0.52
5:A0:364:TRP:HD1	5:BH:359:MET:HE1	1.75	0.52
6:A8:344:ARG:NH1	6:A8:348:GLU:OE2	2.42	0.52
3:AH:28:LEU:HD22	3:AH:84:LYS:HB3	1.92	0.52
2:AK:444:SER:OG	2:AK:543:SER:OG	2.27	0.52
2:AO:617:VAL:HG22	2:AO:622:GLU:HB2	1.90	0.52
2:AO:654:LEU:HD13	2:B5:605:ARG:HD3	1.91	0.52
10:AU:345:MET:HG2	10:AU:351:VAL:HG21	1.92	0.52
7:Aa:202:VAL:HG23	4:Y:31:ILE:HG12	1.92	0.52
6:Ac:502:SER:OG	6:Ac:505:ASN:OD1	2.25	0.52
7:Al:115:ALA:HB2	6:Ap:272:ILE:HG12	1.91	0.52
6:Ao:120:PRO:HD3	6:Ao:453:TYR:CZ	2.45	0.52
6:Ao:182:PHE:HB2	6:Ao:184:GLU:O	2.10	0.52
2:B1:251:LEU:HB3	2:B1:260:THR:HB	1.91	0.52
2:B1:545:PRO:HB2	2:B4:304:ILE:HD13	1.92	0.52
2:B1:549:ASP:OD2	2:B4:271:TYR:OH	2.20	0.52
2:B2:444:SER:OG	2:B2:543:SER:OG	2.22	0.52
2:B6:20:VAL:HG21	2:B6:46:ASN:HD21	1.75	0.52
2:B6:431:THR:HA	2:B6:442:ASN:HD21	1.75	0.52
7:BC:161:PHE:HA	7:BC:171:LYS:O	2.10	0.52
3:BY:101:GLY:HA3	3:Bo:118:ARG:HG3	1.91	0.52
3:BZ:4:ASP:OD1	3:BZ:4:ASP:N	2.39	0.52
3:Ba:25:ILE:HD12	3:Ba:28:LEU:HD12	1.92	0.52
2:Bq:373:PHE:HB2	2:Bq:405:VAL:HG22	1.91	0.52
2:Br:561:LYS:HD2	2:Bt:10:LEU:HD13	1.90	0.52
2:Bs:91:ASN:OD1	2:Bs:91:ASN:N	2.42	0.52
2:Bs:222:VAL:HG21	2:Bs:238:ILE:HD11	1.91	0.52
2:Bt:379:ALA:HA	2:Bt:411:ARG:HB2	1.91	0.52
2:Bv:444:SER:HB3	2:Bv:544:VAL:HG22	1.92	0.52
2:Bv:454:TYR:HB3	2:Bv:467:TRP:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:44:MET:HE3	4:I:44:MET:HE3	1.92	0.52
1:m:176:TYR:HA	8:t:71:ILE:HA	1.91	0.52
1:p:118:ILE:HD12	1:p:167:ARG:HB3	1.91	0.52
8:u:95:GLN:N	9:y:7:GLN:OE1	2.43	0.52
2:3:427:VAL:O	2:3:431:THR:OG1	2.24	0.51
2:5:31:GLY:HA2	2:5:355:LEU:HD21	1.92	0.51
2:5:451:ASP:OD1	2:5:452:GLY:N	2.42	0.51
2:5:455:LYS:HB2	2:5:470:LEU:HD13	1.92	0.51
5:A1:150:TRP:HD1	5:A1:156:ILE:HG22	1.74	0.51
5:A3:103:GLU:OE1	5:A3:449:HIS:NE2	2.42	0.51
6:A4:261:ALA:HA	6:A4:478:GLY:HA3	1.93	0.51
6:A4:264:ARG:NH2	6:A5:152:ALA:O	2.43	0.51
7:A6:179:TYR:HB3	6:Ao:86:GLY:HA3	1.91	0.51
6:A7:123:GLN:NE2	6:AW:93:PRO:O	2.43	0.51
6:A9:387:ALA:HB2	6:A9:404:PHE:HB2	1.92	0.51
9:AC:38:PRO:HB3	9:v:142:GLU:HA	1.92	0.51
2:AM:209:ASP:OD1	2:AM:209:ASP:N	2.43	0.51
6:Ag:68:ILE:HD12	6:Ao:235:LEU:HD21	1.92	0.51
6:Ah:398:GLN:HB3	6:BI:351:LYS:HD3	1.92	0.51
6:Ak:391:THR:OG1	6:Ak:392:GLY:N	2.41	0.51
6:Ao:106:LEU:HD11	6:Ao:299:MET:HE3	1.92	0.51
6:Ap:494:SER:C	6:Ap:496:ILE:H	2.18	0.51
7:Aq:166:ALA:N	7:As:51:ASP:OD2	2.38	0.51
7:Ar:40:ARG:HH21	7:Ar:254:LEU:HD22	1.76	0.51
7:Ar:89:ARG:HG2	7:Ar:95:ILE:HG22	1.91	0.51
6:Ay:117:MET:HG3	6:Ay:451:ALA:HB1	1.92	0.51
6:Ay:267:LYS:HE3	6:Ay:470:VAL:HG21	1.92	0.51
4:B:10:PHE:O	4:B:54:ASN:ND2	2.39	0.51
2:B1:366:GLU:OE1	2:Bz:526:THR:OG1	2.28	0.51
2:B3:133:GLU:HB3	2:B3:142:LYS:HB3	1.92	0.51
2:B4:408:SER:HB3	2:B4:454:TYR:HE1	1.75	0.51
6:BJ:153:MET:HB2	6:BJ:189:TYR:CZ	2.45	0.51
6:BK:417:LEU:HB3	6:BK:421:TYR:HB2	1.92	0.51
7:BL:104:TYR:O	7:BL:106:TRP:N	2.39	0.51
6:BM:100:ARG:HH21	6:BM:284:MET:HE3	1.74	0.51
6:BM:185:THR:HG23	6:BM:366:ARG:HH21	1.75	0.51
3:Bb:19:ASN:OD1	3:Bb:19:ASN:N	2.42	0.51
3:Bd:56:ARG:NH2	3:Bj:96:GLY:O	2.42	0.51
3:Bk:24:GLU:OE1	3:Bk:33:THR:OG1	2.26	0.51
2:Bs:470:LEU:HD23	2:Bs:525:VAL:HG21	1.92	0.51
2:Bx:269:PHE:CZ	2:Bx:282:ILE:HG13	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:b:10:PHE:O	4:b:54:ASN:ND2	2.35	0.51
9:w:5:LEU:H	9:w:5:LEU:HD12	1.75	0.51
1:0:213:ILE:HD13	8:q:70:THR:HG22	1.92	0.51
1:0:231:TYR:OH	8:q:15:THR:OG1	2.18	0.51
8:AB:69:GLU:HG2	8:AB:70:THR:H	1.75	0.51
3:AE:97:ASN:HB3	3:Bj:2:PHE:HB3	1.91	0.51
2:AP:34:GLN:OE1	2:AP:58:THR:OG1	2.28	0.51
2:AP:135:ASP:OD1	2:AP:136:ALA:N	2.42	0.51
6:AV:413:PHE:HE1	6:AV:422:ARG:HB3	1.75	0.51
6:Ae:231:SER:HB3	6:Au:71:ASP:HB3	1.92	0.51
6:Ag:305:GLU:HG3	6:Ag:309:TRP:CD1	2.45	0.51
6:Ai:328:LYS:HE3	6:Ai:333:ASP:HB3	1.92	0.51
6:Aj:358:ASP:OD1	6:Aj:421:TYR:OH	2.28	0.51
7:Al:193:ASP:O	7:Al:242:TYR:OH	2.29	0.51
7:Ar:12:LEU:O	7:Ar:16:ILE:HG12	2.09	0.51
7:As:203:GLY:HA2	4:U:32:LEU:HD23	1.91	0.51
6:Aw:337:PRO:HA	6:Aw:340:ILE:HG12	1.92	0.51
2:B3:30:ALA:HB3	2:B3:359:TRP:CE2	2.45	0.51
2:B5:632:ALA:HB1	2:B6:575:LEU:HD11	1.91	0.51
2:B6:571:ARG:NH2	2:B6:587:GLU:OE1	2.43	0.51
5:BB:470:LEU:HD12	5:BB:491:LEU:HD21	1.92	0.51
3:BY:35:GLN:NE2	3:BY:76:ASP:OD2	2.43	0.51
3:BZ:37:LYS:HZ1	3:BZ:74:MET:HG2	1.75	0.51
2:Bu:362:PHE:HA	2:Bu:368:VAL:HG21	1.92	0.51
2:Bu:617:VAL:HG22	2:Bu:622:GLU:HB2	1.91	0.51
2:Bv:311:ILE:HB	2:Bv:327:ALA:HB2	1.92	0.51
2:By:526:THR:OG1	2:Bz:366:GLU:OE1	2.27	0.51
2:4:378:CYS:SG	2:4:454:TYR:OH	2.55	0.51
2:4:592:LEU:HD23	2:4:604:TYR:HB2	1.91	0.51
5:A3:94:GLU:OE2	5:A3:379:ARG:NH1	2.35	0.51
5:A3:162:ILE:HD11	5:A3:167:PRO:HA	1.93	0.51
7:A6:161:PHE:HA	7:A6:171:LYS:O	2.11	0.51
7:A6:173:MET:HE3	7:BL:55:LYS:HE2	1.91	0.51
6:A8:395:TYR:HD1	6:A8:396:ALA:H	1.58	0.51
6:A9:269:ALA:HB2	6:A9:470:VAL:HG13	1.93	0.51
2:AD:494:TYR:OH	2:AD:531:ASP:OD1	2.28	0.51
10:AQ:335:TYR:HA	10:AQ:338:ARG:HD3	1.91	0.51
6:AV:78:ASN:ND2	11:BR:5:ARG:O	2.43	0.51
6:Aj:363:GLU:OE2	6:Aj:366:ARG:NH2	2.38	0.51
6:Ak:273:GLU:HB2	6:Az:234:GLU:HG2	1.93	0.51
6:Am:69:GLY:N	6:Au:234:GLU:OE2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ar:92:ILE:HD11	7:Ar:181:LEU:HD13	1.92	0.51
6:Au:263:SER:HB3	6:Au:476:ARG:HG2	1.92	0.51
5:Ax:355:ASN:ND2	5:Ax:359:MET:SD	2.84	0.51
6:Az:486:GLU:N	6:Az:486:GLU:OE1	2.39	0.51
2:B3:473:ASP:HB3	2:B3:499:ILE:HD12	1.90	0.51
2:B5:11:LYS:HG2	2:B5:13:THR:HG23	1.93	0.51
6:BM:119:SER:OG	6:BM:121:THR:O	2.29	0.51
3:Bc:69:TRP:HB2	3:Bc:159:LEU:HD23	1.91	0.51
3:Bk:106:GLU:O	3:Bk:109:LYS:NZ	2.43	0.51
2:Br:100:GLU:HB3	2:Br:188:ILE:HD11	1.92	0.51
4:F:23:SER:OG	4:F:26:LYS:NZ	2.44	0.51
4:Z:26:LYS:HA	4:j:34:ALA:H	1.75	0.51
1:m:164:ASN:O	1:m:164:ASN:ND2	2.43	0.51
2:1:5:SER:OG	2:AD:515:ASP:OD1	2.28	0.51
2:2:450:ILE:O	2:2:523:ASN:ND2	2.44	0.51
5:A2:182:VAL:HG22	5:A2:208:TYR:HD1	1.75	0.51
6:A5:336:ASP:HB3	6:A5:339:ASP:HB2	1.92	0.51
3:AA:76:ASP:OD1	3:AA:77:GLU:N	2.43	0.51
3:AH:41:LEU:H	3:AH:41:LEU:HD12	1.76	0.51
3:AJ:24:GLU:OE1	3:AJ:33:THR:OG1	2.27	0.51
6:Ad:120:PRO:HD3	6:Ad:453:TYR:CZ	2.46	0.51
6:Aj:83:GLN:OE1	11:BP:36:SER:OG	2.21	0.51
6:Ap:152:ALA:O	6:BI:264:ARG:NH2	2.44	0.51
7:Ar:151:MET:HE1	7:At:113:GLY:HA2	1.92	0.51
7:At:54:ASN:OD1	7:At:188:THR:OG1	2.22	0.51
6:Aw:131:TYR:HB3	6:Aw:250:MET:HG2	1.91	0.51
2:B3:82:ARG:NH2	2:B3:227:PRO:O	2.42	0.51
2:B4:601:ILE:HG23	2:B4:629:ILE:HG13	1.93	0.51
5:BB:188:ILE:HG22	5:BB:202:TYR:HB3	1.91	0.51
5:BF:208:TYR:OH	5:BF:213:GLU:OE2	2.24	0.51
11:BV:18:ASP:OD1	11:BV:19:GLY:N	2.36	0.51
3:BX:124:THR:OG1	3:Ba:77:GLU:O	2.24	0.51
3:Bh:40:ALA:O	3:Bh:69:TRP:NE1	2.43	0.51
2:Br:119:LYS:NZ	2:Br:124:ASP:OD1	2.44	0.51
2:Bv:101:TYR:OH	2:Bv:216:LYS:O	2.25	0.51
2:By:616:SER:O	2:By:620:ARG:NE	2.40	0.51
2:Bz:617:VAL:HG23	2:Bz:620:ARG:HE	1.76	0.51
4:H:44:MET:HE1	4:S:44:MET:HG2	1.91	0.51
4:W:27:ASN:HD22	4:g:35:ASP:HA	1.75	0.51
1:p:159:TYR:HB3	1:p:162:GLY:HA2	1.92	0.51
8:r:22:SER:O	8:r:38:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:r:69:GLU:HG2	8:r:70:THR:H	1.75	0.51
2:1:498:GLN:HB3	2:1:534:VAL:HG12	1.93	0.51
2:5:30:ALA:HB3	2:5:359:TRP:CE2	2.46	0.51
6:A4:383:VAL:HG21	6:A4:425:ILE:HG12	1.90	0.51
6:A9:285:ASP:HA	5:Av:65:TYR:HE2	1.74	0.51
3:AH:63:ASP:OD2	3:Bj:147:ASN:ND2	2.38	0.51
6:Ac:493:ALA:O	6:Ac:497:GLN:NE2	2.35	0.51
6:An:287:ASP:OD2	6:An:460:ARG:NH2	2.44	0.51
6:Aw:481:ILE:N	6:Aw:499:GLY:O	2.38	0.51
4:B:58:LEU:HD22	4:R:62:ILE:HD12	1.91	0.51
2:B2:378:CYS:SG	2:B2:454:TYR:OH	2.55	0.51
2:B7:575:LEU:HB3	2:B7:577:ASN:HD22	1.76	0.51
5:BA:39:GLY:HA3	5:BA:250:ILE:HG12	1.93	0.51
7:BC:265:ARG:NH1	1:p:49:GLU:OE2	2.43	0.51
6:BJ:332:PHE:HB3	6:BJ:518:VAL:HG12	1.92	0.51
3:Bc:125:LYS:NZ	3:Bf:83:GLN:OE1	2.37	0.51
3:Bg:82:ARG:HH12	3:Bg:138:GLY:HA2	1.74	0.51
3:Bn:39:THR:HG22	3:Bn:71:VAL:HG13	1.93	0.51
2:Br:641:ASN:N	2:Br:641:ASN:OD1	2.43	0.51
4:E:62:ILE:HD12	4:P:58:LEU:HD22	1.92	0.51
1:m:170:THR:HG21	8:t:181:LEU:HD22	1.93	0.51
1:n:198:GLU:OE1	1:n:198:GLU:N	2.42	0.51
8:s:238:VAL:HG22	8:s:239:PRO:HD2	1.91	0.51
2:2:152:ALA:O	2:2:156:GLU:HG2	2.10	0.51
2:2:406:LEU:HD11	2:2:475:ALA:HB2	1.92	0.51
7:A6:54:ASN:HA	7:Al:162:TRP:CD1	2.46	0.51
2:AN:98:ASN:HB2	2:AN:188:ILE:HD11	1.91	0.51
2:AN:653:GLU:O	2:AO:17:SER:OG	2.19	0.51
6:AV:77:THR:OG1	11:BN:5:ARG:NH2	2.44	0.51
6:AW:351:LYS:NZ	6:AW:395:TYR:O	2.43	0.51
6:Ad:380:ARG:CZ	6:Ah:366:ARG:HD2	2.41	0.51
6:Af:257:GLN:NE2	6:Af:481:ILE:O	2.43	0.51
6:Ah:264:ARG:NH1	6:Ah:477:TYR:HH	2.07	0.51
6:Ai:71:ASP:HB2	6:BJ:230:THR:HB	1.91	0.51
6:Am:83:GLN:OE1	11:BN:5:ARG:NH1	2.43	0.51
5:Av:398:ARG:NH2	5:BB:400:GLU:OE2	2.43	0.51
2:B3:11:LYS:HG2	2:B3:13:THR:HG23	1.92	0.51
2:B3:36:GLY:O	2:B3:82:ARG:NH1	2.42	0.51
2:B5:455:LYS:HZ2	2:B5:457:GLN:HB2	1.75	0.51
2:B6:225:LEU:HD13	2:B6:324:PHE:HB2	1.93	0.51
7:BC:214:SER:OG	7:BC:217:GLU:OE1	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BD:94:GLU:OE2	5:BD:379:ARG:NE	2.41	0.51
5:BD:477:ILE:HA	5:BD:481:ILE:HG23	1.92	0.51
7:BE:15:VAL:HG11	7:BE:248:LYS:HD2	1.92	0.51
5:BF:328:MET:HE3	7:BL:308:VAL:HG13	1.92	0.51
2:Bq:528:THR:HA	2:Br:367:SER:HA	1.93	0.51
2:Br:97:GLY:O	2:Br:147:THR:OG1	2.27	0.51
2:By:46:ASN:OD1	2:By:47:GLU:N	2.43	0.51
2:By:457:GLN:HA	2:By:503:ILE:HG23	1.92	0.51
2:Bz:112:VAL:HG13	2:Bz:134:VAL:HG13	1.92	0.51
2:Bz:480:ARG:O	2:Bz:484:VAL:HG12	2.10	0.51
4:V:52:LEU:HD21	4:a:12:ASP:HB2	1.92	0.51
4:Z:58:LEU:HD22	4:j:62:ILE:HD12	1.93	0.51
8:u:61:SER:OG	8:u:62:GLN:N	2.37	0.51
9:v:137:ASP:OD1	9:v:138:LEU:N	2.43	0.51
1:0:41:ILE:HD13	1:k:5:ASP:HB2	1.93	0.51
2:4:455:LYS:HB2	2:4:470:LEU:HD13	1.92	0.51
3:8:86:VAL:HG12	3:8:137:VAL:HG21	1.92	0.51
3:9:132:LEU:HD21	3:9:157:LEU:HD13	1.92	0.51
7:A6:211:ASP:OD1	7:A6:211:ASP:N	2.43	0.51
3:AA:52:GLY:HA2	3:AA:57:LYS:HA	1.91	0.51
9:AC:43:ARG:NH1	9:AC:69:ASP:OD1	2.43	0.51
2:AD:202:GLU:O	2:AD:206:THR:OG1	2.16	0.51
3:AE:85:PHE:HB3	3:AE:137:VAL:HG21	1.92	0.51
2:AL:240:SER:OG	2:AL:243:ASP:OD1	2.29	0.51
2:AO:310:TYR:HE2	2:AO:312:ASP:HB2	1.76	0.51
6:AX:131:TYR:HA	6:AX:250:MET:HA	1.93	0.51
6:AX:496:ILE:HG12	6:BK:76:ALA:HB1	1.92	0.51
6:AZ:237:GLU:OE1	6:AZ:243:THR:OG1	2.29	0.51
6:Ad:235:LEU:O	6:Ad:245:ASN:ND2	2.44	0.51
7:Aq:40:ARG:HE	7:Aq:254:LEU:HD13	1.76	0.51
7:Ar:30:THR:HG23	7:Ar:33:GLN:HE22	1.75	0.51
7:At:112:LEU:HD13	7:At:115:ALA:H	1.75	0.51
5:Av:230:ILE:HG21	5:Av:235:VAL:HG23	1.93	0.51
6:Aw:207:LYS:O	6:Aw:211:GLU:HG2	2.11	0.51
5:BA:360:GLU:OE1	5:BA:363:ARG:NH1	2.44	0.51
6:BI:130:VAL:HG12	6:BI:142:GLU:HA	1.93	0.51
3:Bb:8:ARG:HD2	3:Be:34:PHE:HE2	1.76	0.51
3:Bb:56:ARG:HD3	3:Bh:99:ILE:HG12	1.92	0.51
3:Be:4:ASP:OD1	3:Be:4:ASP:N	2.40	0.51
3:Bi:40:ALA:H	3:Bi:69:TRP:HE1	1.57	0.51
2:Bs:498:GLN:HA	2:Bs:534:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:9:PRO:HD3	4:I:57:VAL:HG21	1.92	0.51
1:m:118:ILE:HD11	1:m:169:ILE:HD11	1.93	0.51
9:w:137:ASP:OD1	9:w:138:LEU:N	2.43	0.51
2:2:279:TYR:OH	2:2:332:GLU:O	2.29	0.51
2:4:605:ARG:HG2	2:4:607:VAL:HG23	1.93	0.51
3:7:70:THR:HG22	3:7:156:THR:HG22	1.92	0.51
5:A1:276:ILE:HD13	7:Aq:143:GLN:HB2	1.93	0.51
6:A9:71:ASP:OD1	6:A9:72:HIS:N	2.44	0.51
2:AL:205:MET:O	2:AL:211:GLN:NE2	2.39	0.51
2:AL:454:TYR:HB3	2:AL:467:TRP:HD1	1.76	0.51
2:AO:47:GLU:OE1	2:AO:461:TYR:OH	2.28	0.51
2:AP:110:TYR:HE1	2:AP:171:ILE:HG21	1.76	0.51
6:AV:241:GLY:HA3	11:BV:43:GLY:HA2	1.93	0.51
6:AV:350:PHE:HB2	6:AV:389:VAL:HG11	1.93	0.51
6:AW:350:PHE:HB2	6:AW:389:VAL:HG11	1.93	0.51
6:AX:142:GLU:OE2	6:BK:101:ARG:NE	2.38	0.51
7:AY:34:ILE:O	7:AY:38:ILE:HG12	2.10	0.51
6:Ak:93:PRO:HB2	6:Ao:123:GLN:HB3	1.93	0.51
7:Aq:265:ARG:NH1	1:l:49:GLU:OE2	2.44	0.51
7:Ar:30:THR:OG1	7:Ar:33:GLN:OE1	2.28	0.51
6:Au:185:THR:HG23	6:Au:366:ARG:HH21	1.76	0.51
5:Ax:442:ASN:O	5:Ax:442:ASN:ND2	2.43	0.51
4:B:48:THR:HG21	4:G:47:PRO:HB2	1.91	0.51
2:B3:159:GLU:HG3	2:B3:167:TRP:HE1	1.76	0.51
5:BB:110:ALA:HB3	5:BB:447:GLU:HG3	1.92	0.51
5:BB:348:ASP:OD1	5:BB:349:THR:N	2.42	0.51
2:Bs:24:THR:O	2:Bs:483:ASN:ND2	2.35	0.51
2:Bt:209:ASP:O	2:Bt:213:ASN:ND2	2.32	0.51
2:Bu:252:LEU:HG	2:Bu:263:SER:HB3	1.92	0.51
2:Bv:66:MET:HG2	2:Bv:468:VAL:HG21	1.92	0.51
2:Bz:480:ARG:C	2:Bz:482:ASP:H	2.18	0.51
4:K:29:GLU:OE2	4:K:46:ARG:NH1	2.43	0.51
1:m:127:VAL:O	1:m:128:ASN:ND2	2.30	0.51
1:n:143:ASP:OD1	1:p:159:TYR:OH	2.27	0.51
8:r:85:ASN:ND2	8:r:195:ASN:OD1	2.43	0.51
5:A0:31:ILE:HG22	5:A0:198:ILE:HG22	1.93	0.51
2:AD:252:LEU:HG	2:AD:263:SER:HB2	1.93	0.51
3:AJ:58:ILE:HD11	3:Bm:6:VAL:HG21	1.93	0.51
2:AM:526:THR:OG1	2:AM:527:GLY:N	2.44	0.51
2:AM:642:PHE:HB3	2:By:557:PHE:HE1	1.76	0.51
2:AN:655:THR:HB	2:AO:19:VAL:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:33:PHE:HA	2:AP:61:THR:HG23	1.93	0.51
2:AP:228:GLY:HA2	2:AP:345:SER:HB2	1.92	0.51
10:AU:345:MET:HA	10:AU:351:VAL:HG11	1.93	0.51
6:AZ:171:GLN:NE2	6:AZ:195:GLN:OE1	2.43	0.51
6:Ac:153:MET:HE2	6:Ac:225:ALA:HA	1.93	0.51
6:Ac:287:ASP:OD1	6:Ac:288:ALA:N	2.43	0.51
6:Ac:346:ALA:HA	6:Ac:349:SER:HB3	1.93	0.51
6:Ah:406:THR:OG1	6:BI:372:GLU:OE2	2.29	0.51
6:Ai:264:ARG:NH1	6:AI:305:GLU:OE1	2.44	0.51
6:An:268:ALA:HB1	6:An:290:LEU:HD13	1.93	0.51
6:Ao:263:SER:HB3	6:Ao:476:ARG:HG2	1.92	0.51
7:Aq:22:ALA:HB1	7:Aq:23:PRO:HD2	1.91	0.51
7:At:307:LEU:HB2	5:BA:335:TRP:HB2	1.91	0.51
6:Au:76:ALA:HB1	6:Ay:496:ILE:HG12	1.92	0.51
6:Aw:123:GLN:HG2	6:BM:95:VAL:HA	1.93	0.51
2:B1:148:ALA:O	2:B1:151:ILE:HG13	2.11	0.51
7:BC:238:LYS:HD3	7:BC:238:LYS:H	1.76	0.51
7:BE:34:ILE:O	7:BE:38:ILE:HG12	2.11	0.51
3:Bc:108:LYS:HB3	3:Bc:131:GLY:HA2	1.92	0.51
3:Bk:124:THR:HB	3:Bn:78:ALA:HA	1.93	0.51
2:Bp:617:VAL:HG22	2:Bp:622:GLU:HB2	1.92	0.51
2:Br:511:GLN:OE1	2:Br:514:ARG:NH2	2.44	0.51
2:Bt:66:MET:HB3	2:Bt:468:VAL:HG11	1.93	0.51
2:Bv:446:THR:OG1	2:Bv:554:ARG:NH2	2.43	0.51
1:n:204:VAL:HA	8:u:66:ALA:HB2	1.91	0.51
2:2:488:TRP:O	2:2:552:ASN:ND2	2.41	0.51
2:4:515:ASP:OD1	2:5:5:SER:OG	2.23	0.51
5:A1:249:ASN:OD1	5:A1:250:ILE:N	2.43	0.51
5:A2:284:VAL:HG22	5:BF:334:TYR:HB2	1.93	0.51
5:A3:211:ALA:HB2	5:A3:225:GLY:HA2	1.92	0.51
6:A8:490:GLN:N	6:A8:490:GLN:OE1	2.44	0.51
8:AB:91:ASN:O	8:AB:110:ASN:ND2	2.39	0.51
9:AC:56:LEU:O	9:w:97:TYR:HB3	2.11	0.51
3:AF:75:ASN:HD21	3:AF:79:HIS:CG	2.28	0.51
3:AG:57:LYS:HE2	3:Bj:147:ASN:HD21	1.74	0.51
2:AO:510:ARG:HA	2:B5:364:ASP:HB2	1.93	0.51
2:AP:91:ASN:OD1	2:AP:91:ASN:N	2.42	0.51
7:Aa:12:LEU:O	7:Aa:16:ILE:HG12	2.11	0.51
6:Ac:130:VAL:HA	6:Ac:142:GLU:HA	1.93	0.51
7:BC:175:ASN:HD21	7:BE:99:ASP:HB2	1.76	0.51
5:BD:432:ILE:HG13	5:BD:436:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BP:5:ARG:HH21	11:BP:33:PRO:HB3	1.75	0.51
11:BU:26:LYS:HD2	11:BU:75:LEU:HD23	1.93	0.51
3:Bd:63:ASP:OD2	3:Bh:147:ASN:ND2	2.44	0.51
3:Bj:8:ARG:HD2	3:Bm:34:PHE:HE2	1.75	0.51
2:Bw:635:ILE:HD13	2:Bx:623:PHE:HB2	1.93	0.51
2:Bx:432:ALA:HB2	2:Bx:440:ASN:HD22	1.74	0.51
1:k:86:PHE:CE2	1:k:88:ALA:HB2	2.46	0.51
1:0:164:ASN:O	1:0:164:ASN:ND2	2.44	0.50
1:0:214:ASN:OD1	8:q:55:LYS:NZ	2.34	0.50
2:3:102:THR:HB	2:3:183:THR:HB	1.93	0.50
2:5:240:SER:OG	2:5:334:PHE:O	2.28	0.50
5:A0:106:THR:OG1	5:A0:107:GLU:N	2.43	0.50
5:A1:282:ARG:NH2	5:BD:328:MET:O	2.44	0.50
6:A4:109:PHE:HE1	6:A4:306:VAL:HG21	1.75	0.50
3:AG:90:SER:HA	3:AG:94:GLY:HA2	1.93	0.50
6:AW:100:ARG:NH1	6:AW:289:GLU:OE2	2.40	0.50
7:Aa:4:TYR:HB3	7:As:39:GLN:HG2	1.92	0.50
6:Ad:68:ILE:HG22	6:Ad:70:GLY:H	1.75	0.50
6:Ag:265:GLN:HB3	6:Ak:247:TRP:CH2	2.47	0.50
7:Ar:308:VAL:HB	5:Ax:311:ARG:HH22	1.76	0.50
7:At:120:GLY:O	7:At:122:GLY:N	2.44	0.50
2:B3:254:ILE:HG13	2:B3:337:ILE:HB	1.92	0.50
2:B4:521:ALA:HB1	2:B4:541:ALA:HA	1.93	0.50
2:B6:135:ASP:OD1	2:B6:136:ALA:N	2.45	0.50
5:BA:293:PRO:O	5:BA:295:ARG:N	2.43	0.50
7:BC:12:LEU:HD12	7:BC:242:TYR:HD2	1.76	0.50
6:BM:123:GLN:HG2	6:BM:258:VAL:HG12	1.93	0.50
3:Bk:23:VAL:HG11	3:Bk:39:THR:HG21	1.93	0.50
2:Bp:427:VAL:HG22	2:Bp:520:GLU:HG3	1.92	0.50
2:Bq:394:VAL:HG11	2:Bq:443:ILE:HD12	1.92	0.50
2:Bw:26:THR:HA	2:Bw:77:ASP:O	2.11	0.50
2:Bz:239:VAL:HG22	2:Bz:280:ALA:HB3	1.92	0.50
1:l:176:TYR:HA	8:s:71:ILE:HA	1.93	0.50
1:n:6:LYS:NZ	1:n:23:GLU:OE2	2.43	0.50
1:n:173:LYS:HB3	8:u:69:GLU:HB2	1.93	0.50
8:q:243:ASP:OD1	8:q:243:ASP:N	2.42	0.50
8:s:222:ASP:OD1	8:s:222:ASP:N	2.43	0.50
2:3:505:LEU:HD21	2:3:525:VAL:HG12	1.92	0.50
2:4:20:VAL:HG21	2:AK:611:THR:HG21	1.92	0.50
3:6:76:ASP:OD1	3:6:80:ASP:N	2.35	0.50
5:A3:190:THR:OG1	5:A3:191:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A6:96:THR:O	7:A6:152:GLN:NE2	2.45	0.50
6:A7:476:ARG:HH21	6:A8:230:THR:HG21	1.77	0.50
6:A9:350:PHE:HB2	6:A9:389:VAL:HG11	1.94	0.50
2:AK:254:ILE:HD11	2:AK:261:ARG:HB2	1.93	0.50
2:AN:159:GLU:OE2	2:AN:166:ASN:ND2	2.44	0.50
2:AN:217:TYR:HB2	2:AN:219:ILE:HD12	1.93	0.50
2:AN:362:PHE:O	2:AN:400:ARG:NE	2.44	0.50
2:AP:272:GLY:O	2:AP:274:GLN:NE2	2.44	0.50
10:AS:310:TRP:CD1	10:AS:311:VAL:HG23	2.45	0.50
6:AX:173:THR:HB	6:AX:176:ASP:HB2	1.94	0.50
6:Af:263:SER:HB3	6:Af:476:ARG:HG2	1.92	0.50
7:Al:55:LYS:HE2	7:BE:162:TRP:HD1	1.76	0.50
7:Al:163:PHE:HA	7:Al:170:LEU:HA	1.92	0.50
7:Al:210:GLN:HA	7:Al:227:VAL:HG13	1.94	0.50
6:Am:350:PHE:HB2	6:Am:389:VAL:HG11	1.93	0.50
6:An:90:GLN:NE2	6:An:277:ASP:OD2	2.45	0.50
6:Ao:107:ILE:HG12	6:Ao:412:VAL:HG21	1.93	0.50
6:Au:106:LEU:HD21	6:Au:300:LEU:HD23	1.93	0.50
5:BH:66:GLU:H	5:BH:67:PRO:HD2	1.76	0.50
6:BJ:379:SER:OG	6:BJ:432:ASP:OD1	2.26	0.50
3:BX:63:ASP:OD1	3:BX:64:ARG:N	2.42	0.50
3:BZ:23:VAL:HG11	3:BZ:39:THR:HG21	1.93	0.50
3:Bb:3:VAL:HG12	3:Bg:97:ASN:HA	1.92	0.50
3:Bc:17:ARG:HG3	3:Bc:20:LEU:HD12	1.92	0.50
3:Bl:21:PHE:HZ	3:Bl:38:ALA:HA	1.76	0.50
2:Bq:84:VAL:HG13	2:Bq:346:SER:HB3	1.93	0.50
2:Bq:308:ASN:ND2	2:Bq:313:ASP:OD2	2.43	0.50
2:Bw:206:THR:HA	2:Bw:211:GLN:HE21	1.76	0.50
8:s:143:PRO:O	8:s:166:VAL:HA	2.11	0.50
8:u:81:ASP:OD1	8:u:82:PHE:N	2.43	0.50
1:0:62:PRO:HG3	1:0:84:TRP:HZ3	1.74	0.50
2:3:470:LEU:HD11	2:3:499:ILE:HG21	1.93	0.50
2:4:237:GLU:OE1	2:4:284:ARG:NH1	2.44	0.50
5:A0:303:HIS:NE2	7:BC:161:PHE:O	2.44	0.50
5:A3:381:PRO:HB2	5:BF:377:LEU:HD23	1.93	0.50
3:AJ:63:ASP:HB3	3:BX:147:ASN:HB3	1.93	0.50
2:AL:137:ASP:OD1	2:AL:137:ASP:N	2.37	0.50
2:AM:298:LYS:NZ	2:AM:299:ARG:O	2.41	0.50
2:AN:550:ARG:HB3	2:AN:553:VAL:HG12	1.91	0.50
2:AO:30:ALA:HB3	2:AO:359:TRP:CE2	2.47	0.50
10:AU:310:TRP:CD1	10:AU:311:VAL:HG23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AV:237:GLU:HB3	6:BM:465:LYS:HB3	1.92	0.50
6:AZ:93:PRO:HA	6:Ad:121:THR:O	2.12	0.50
6:Af:211:GLU:HA	6:Af:214:LYS:HD2	1.92	0.50
6:Ai:163:PHE:HB2	6:Ai:179:THR:HG23	1.92	0.50
7:Al:202:VAL:HG13	4:f:31:ILE:HG22	1.92	0.50
6:An:395:TYR:HD1	6:An:396:ALA:H	1.59	0.50
6:Ao:268:ALA:HB1	6:Ao:290:LEU:HD13	1.92	0.50
6:Ao:376:ILE:HG23	6:Ao:423:VAL:HG22	1.93	0.50
7:Aq:170:LEU:HD11	7:Aq:172:VAL:HG23	1.93	0.50
5:Av:382:GLN:NE2	5:Ax:367:GLN:OE1	2.45	0.50
6:Ay:264:ARG:HH21	6:Ay:301:GLU:HB3	1.76	0.50
2:B1:135:ASP:OD1	2:B1:136:ALA:N	2.44	0.50
2:B1:578:ALA:HA	2:B1:581:ARG:HE	1.75	0.50
2:B3:239:VAL:HG13	2:B3:280:ALA:HB3	1.92	0.50
2:B4:494:TYR:O	2:B4:498:GLN:NE2	2.43	0.50
2:B4:521:ALA:HA	2:B4:539:LYS:HG2	1.93	0.50
2:B5:151:ILE:O	2:B5:155:LYS:HG3	2.11	0.50
5:BA:228:ILE:HG12	5:BH:196:THR:HG21	1.93	0.50
7:BE:191:TYR:HD1	7:BE:193:ASP:H	1.58	0.50
5:BH:72:THR:OG1	5:BH:155:ARG:NH2	2.32	0.50
5:BH:209:ASP:HA	5:BH:227:LYS:HA	1.93	0.50
6:BI:290:LEU:HD21	6:BM:67:GLU:HG3	1.92	0.50
6:BI:449:TYR:OH	6:BI:482:ASN:OD1	2.28	0.50
6:BK:110:ASP:OD1	6:BK:110:ASP:N	2.36	0.50
6:BK:365:ALA:HB2	6:BK:372:GLU:HA	1.93	0.50
3:BX:22:GLN:OE1	3:BX:114:ARG:NH2	2.38	0.50
3:BY:3:VAL:HG12	3:Bd:97:ASN:HA	1.93	0.50
3:Bc:42:PRO:HD3	3:Bc:69:TRP:CD1	2.47	0.50
3:Bl:37:LYS:HB2	3:Bl:74:MET:HG3	1.94	0.50
2:Bq:510:ARG:HH12	2:Bq:513:GLN:HE22	1.60	0.50
2:Br:556:LEU:HD11	2:Br:601:ILE:HG23	1.94	0.50
2:Bt:585:ARG:NH2	2:Bt:608:CYS:O	2.44	0.50
2:Bu:57:PRO:HA	2:Bu:61:THR:HB	1.93	0.50
2:Bv:453:ASN:HB2	2:Bv:506:ALA:HB3	1.93	0.50
1:l:86:PHE:CE2	1:l:88:ALA:HB2	2.46	0.50
1:p:86:PHE:CE2	1:p:88:ALA:HB2	2.47	0.50
8:t:215:ASP:OD1	8:t:215:ASP:N	2.44	0.50
1:0:177:SER:HB2	1:0:207:LEU:HB3	1.94	0.50
2:3:113:GLY:HA3	2:3:131:ILE:HB	1.92	0.50
2:3:241:LYS:O	2:3:244:TYR:HB2	2.10	0.50
2:3:406:LEU:HD11	2:3:475:ALA:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5:44:VAL:HG11	2:5:50:LEU:HB2	1.92	0.50
3:7:83:GLN:HA	3:7:86:VAL:HG22	1.93	0.50
7:A6:12:LEU:O	7:A6:16:ILE:HG12	2.12	0.50
3:AA:147:ASN:OD1	9:x:65:THR:OG1	2.28	0.50
3:AG:31:ASN:OD1	3:AG:31:ASN:N	2.40	0.50
6:AW:345:TRP:HD1	6:AW:346:ALA:N	2.09	0.50
6:Ae:71:ASP:HB3	6:Am:231:SER:HB3	1.93	0.50
6:Ai:304:ARG:NH2	6:Ai:308:ASP:OD1	2.45	0.50
6:Aj:136:VAL:HG22	6:Aj:253:ARG:HH11	1.77	0.50
7:Al:191:TYR:HA	7:Al:239:GLN:HE21	1.76	0.50
6:An:288:ALA:HB2	7:As:126:ASN:HB3	1.94	0.50
7:Aq:267:GLN:HG3	7:Aq:279:GLY:H	1.76	0.50
7:Aq:299:LEU:HD12	5:BD:291:ASN:ND2	2.27	0.50
7:At:108:THR:OG1	7:At:109:ASP:N	2.40	0.50
7:At:163:PHE:HB2	7:At:170:LEU:HD13	1.93	0.50
2:B4:538:ASP:O	2:B4:550:ARG:NE	2.45	0.50
2:B5:39:PHE:HE2	2:B5:86:ARG:HD2	1.76	0.50
5:BB:94:GLU:HG3	5:BB:379:ARG:HH21	1.76	0.50
5:BD:208:TYR:HB3	5:BD:228:ILE:HG23	1.94	0.50
5:BG:399:ASP:OD1	5:BG:399:ASP:N	2.44	0.50
6:BI:351:LYS:NZ	6:BI:390:ASP:O	2.44	0.50
11:BS:10:ILE:HD13	11:BS:41:ILE:HG21	1.91	0.50
3:BX:51:VAL:HG12	3:Bb:150:ILE:HD12	1.93	0.50
3:Bd:58:ILE:HD12	3:Be:6:VAL:HG21	1.92	0.50
3:Be:114:ARG:NH2	3:Be:116:TYR:OH	2.41	0.50
3:Bf:119:ASP:OD1	3:Bh:101:GLY:N	2.44	0.50
3:Bj:58:ILE:HD12	3:Bk:6:VAL:HG21	1.93	0.50
3:Bk:72:THR:HG22	3:Bk:154:GLU:HG3	1.92	0.50
2:Bq:170:GLU:OE1	2:Bq:171:ILE:N	2.43	0.50
2:Bq:490:SER:O	2:Bq:496:ARG:NH1	2.44	0.50
2:Bs:114:ASP:OD1	2:Bs:114:ASP:N	2.43	0.50
2:Bv:525:VAL:HG22	2:Bv:535:LEU:HD23	1.94	0.50
2:By:457:GLN:HG2	2:By:458:TYR:H	1.76	0.50
2:Bz:601:ILE:HD13	2:Bz:629:ILE:HB	1.93	0.50
1:n:101:SER:HA	1:n:110:VAL:HA	1.93	0.50
8:s:142:GLN:O	8:s:144:HIS:N	2.44	0.50
9:x:13:ASN:H	9:x:16:ASN:ND2	2.09	0.50
2:5:559:MET:SD	2:5:563:ASN:ND2	2.84	0.50
6:A4:258:VAL:HG21	6:A9:76:ALA:HA	1.94	0.50
6:A7:373:GLY:HA2	6:A7:438:TYR:HB2	1.92	0.50
6:A9:279:ARG:CZ	5:Av:62:PHE:HA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AB:108:GLN:HE21	8:AB:202:VAL:HG12	1.76	0.50
8:AB:163:ILE:HD13	8:AB:163:ILE:H	1.75	0.50
2:AM:417:ILE:HD13	2:AM:417:ILE:H	1.75	0.50
7:AY:24:ILE:O	7:AY:25:ILE:HG12	2.11	0.50
6:Ae:266:LEU:HB3	6:Ae:294:LEU:HD22	1.94	0.50
6:Ah:145:HIS:CE1	6:Ah:147:MET:HB2	2.47	0.50
6:Aj:350:PHE:HB2	6:Aj:389:VAL:HG11	1.93	0.50
5:Ax:497:GLU:O	5:Ax:501:GLU:HG2	2.12	0.50
2:B3:90:LYS:NZ	2:B3:190:ASP:OD1	2.44	0.50
2:B3:202:GLU:OE1	2:B3:203:ALA:N	2.45	0.50
2:B4:32:LYS:HG3	2:B4:350:VAL:HG21	1.92	0.50
2:B4:542:THR:OG1	2:B4:544:VAL:O	2.29	0.50
7:BC:22:ALA:HB1	7:BC:23:PRO:HD2	1.93	0.50
6:BI:115:GLN:NE2	6:BI:444:MET:SD	2.85	0.50
6:BJ:118:ASN:OD1	6:BJ:118:ASN:N	2.35	0.50
6:BK:85:SER:HB2	11:BU:35:TYR:HE2	1.77	0.50
3:BZ:120:ALA:HB1	3:Bo:1:MET:HE2	1.92	0.50
2:Bp:44:VAL:HG11	2:Bp:50:LEU:HB2	1.92	0.50
2:Bp:264:THR:HB	2:Bp:267:ALA:HB3	1.92	0.50
2:Bt:633:ARG:NH1	2:Bu:619:ASP:O	2.45	0.50
2:By:163:LEU:HD12	2:By:187:ILE:H	1.77	0.50
2:Bz:473:ASP:HB3	2:Bz:499:ILE:HD12	1.94	0.50
4:J:47:PRO:HB2	4:L:48:THR:HG21	1.93	0.50
3:o:86:VAL:HG12	3:o:137:VAL:HG21	1.93	0.50
1:p:5:ASP:OD2	1:p:8:LEU:N	2.45	0.50
8:q:81:ASP:OD1	8:q:82:PHE:N	2.45	0.50
9:y:137:ASP:OD1	9:y:138:LEU:N	2.45	0.50
2:1:645:THR:OG1	2:AO:629:ILE:O	2.29	0.50
2:2:545:PRO:HG3	2:3:271:TYR:HB2	1.94	0.50
2:4:538:ASP:OD1	2:4:538:ASP:N	2.45	0.50
2:4:645:THR:HG21	2:4:651:PHE:HB3	1.92	0.50
5:A2:111:LEU:HD11	5:A2:444:ILE:HD11	1.93	0.50
5:A3:132:ASP:O	5:A3:136:HIS:ND1	2.45	0.50
6:A4:398:GLN:HE22	6:A5:355:PHE:HB2	1.76	0.50
6:A7:387:ALA:HB2	6:A7:404:PHE:HB2	1.93	0.50
3:AA:114:ARG:HH21	3:AA:116:TYR:HH	1.54	0.50
2:AD:44:VAL:HG11	2:AD:50:LEU:HB2	1.93	0.50
10:AU:348:TYR:HB2	10:AU:351:VAL:HG12	1.93	0.50
6:AW:494:SER:C	6:AW:496:ILE:H	2.20	0.50
6:Ae:154:PHE:O	6:Ae:248:ASN:ND2	2.39	0.50
6:Aj:261:ALA:HA	6:Aj:478:GLY:HA3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Al:245:ARG:HB2	7:BE:43:GLU:HG2	1.94	0.50
7:Aq:94:SER:HB2	7:Aq:96:THR:HG23	1.94	0.50
7:At:150:MET:HE3	5:BA:329:SER:HB2	1.93	0.50
2:B1:99:ILE:HD12	2:B1:150:ILE:HD13	1.92	0.50
2:B1:401:GLN:NE2	2:B3:10:LEU:O	2.37	0.50
2:B2:417:ILE:H	2:B2:417:ILE:HD13	1.76	0.50
2:B2:453:ASN:HD21	2:B2:505:LEU:HG	1.75	0.50
7:BC:18:ARG:HA	7:BC:22:ALA:HA	1.93	0.50
6:BI:324:THR:HG22	6:BI:325:PRO:HD2	1.93	0.50
6:BK:273:GLU:OE1	6:BK:273:GLU:N	2.44	0.50
11:BN:26:LYS:NZ	11:BN:74:ASP:O	2.44	0.50
11:BW:9:ASN:HB3	11:BW:56:TYR:HE2	1.75	0.50
2:Bv:527:GLY:HA2	2:Bv:533:TYR:HD1	1.76	0.50
4:D:25:ILE:H	4:T:45:ASN:HD21	1.60	0.50
4:O:9:PRO:O	4:O:20:SER:N	2.44	0.50
4:X:52:LEU:HD21	4:c:12:ASP:HB2	1.94	0.50
1:n:148:GLU:HB2	1:n:174:PHE:HD1	1.77	0.50
3:o:147:ASN:OD1	9:y:65:THR:OG1	2.27	0.50
1:p:201:LEU:HB3	1:p:205:ARG:HH21	1.77	0.50
8:r:248:ASP:OD1	8:r:248:ASP:N	2.42	0.50
1:0:147:PHE:HB3	1:0:171:ALA:HB1	1.94	0.50
2:3:163:LEU:HD22	2:3:167:TRP:CE2	2.47	0.50
2:4:406:LEU:HD11	2:4:475:ALA:HB2	1.94	0.50
2:4:586:THR:HG21	9:y:129:ASN:HD22	1.77	0.50
5:A2:256:ARG:NH1	5:BF:89:ASP:OD2	2.45	0.50
6:A4:365:ALA:HB2	6:A4:372:GLU:HA	1.92	0.50
6:A5:287:ASP:HB2	6:A5:471:MET:HE1	1.93	0.50
2:AN:43:GLN:NE2	2:AN:77:ASP:OD2	2.45	0.50
2:AP:220:PRO:HG2	2:AP:338:LEU:HD11	1.94	0.50
10:AQ:309:TRP:HB3	10:AQ:356:SER:HB3	1.92	0.50
6:AW:345:TRP:HD1	6:AW:347:GLY:H	1.59	0.50
6:AX:264:ARG:NH2	6:Az:152:ALA:O	2.44	0.50
7:AY:60:PHE:HB2	7:AY:182:ILE:HG13	1.94	0.50
7:AY:230:VAL:HB	7:AY:233:GLN:HG2	1.93	0.50
7:Aa:199:GLY:O	7:Aa:204:TYR:OH	2.29	0.50
6:Ac:266:LEU:HB3	6:Ac:294:LEU:HD22	1.92	0.50
5:Av:487:MET:HG3	5:Ax:480:TYR:HD1	1.76	0.50
2:B1:564:ILE:HD11	2:Bz:642:PHE:CZ	2.47	0.50
2:B1:614:THR:O	2:B1:616:SER:N	2.39	0.50
2:B5:22:ASN:OD1	2:B5:22:ASN:N	2.45	0.50
2:B7:116:ILE:HD11	2:B7:131:ILE:HG12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:264:THR:OG1	2:B7:284:ARG:NH2	2.44	0.50
5:BH:156:ILE:HG22	5:BH:238:ALA:HB3	1.94	0.50
6:BI:82:GLY:O	6:BI:89:THR:OG1	2.22	0.50
7:BL:131:PRO:O	7:BL:133:ALA:N	2.45	0.50
7:BL:266:HIS:O	1:m:54:ARG:NH2	2.39	0.50
11:BP:16:LYS:HD3	11:BP:22:LYS:HG2	1.93	0.50
3:Ba:49:ILE:HG12	3:Ba:60:VAL:HG12	1.94	0.50
3:Bj:43:ALA:HA	3:Bm:138:GLY:HA3	1.93	0.50
2:Bt:455:LYS:HD2	2:Bt:457:GLN:HB2	1.93	0.50
1:p:183:PRO:HD2	1:p:205:ARG:HG3	1.92	0.50
9:z:43:ARG:NH1	9:z:69:ASP:OD1	2.38	0.50
2:2:304:ILE:HG13	2:2:305:TYR:H	1.76	0.50
2:4:304:ILE:HG13	2:4:305:TYR:H	1.76	0.50
2:5:108:SER:HB3	2:5:178:LEU:HD11	1.93	0.50
3:7:101:GLY:HA3	3:AI:119:ASP:HA	1.93	0.50
5:A3:45:VAL:HG12	5:A3:46:SER:H	1.76	0.50
5:A3:182:VAL:HG22	5:A3:208:TYR:HD1	1.77	0.50
6:A8:292:GLY:HA2	5:BA:67:PRO:HD3	1.92	0.50
6:A8:459:LEU:HB3	6:Au:467:PHE:CD2	2.46	0.50
2:AM:550:ARG:NH1	2:AM:636:ASN:OD1	2.45	0.50
2:AN:453:ASN:HB3	2:AN:507:ILE:HG12	1.94	0.50
2:AN:455:LYS:NZ	2:AN:457:GLN:OE1	2.41	0.50
2:AO:131:ILE:HG12	2:AO:143:ILE:HG22	1.94	0.50
2:AO:214:LEU:HB2	2:AO:329:ASN:HD22	1.77	0.50
6:AV:278:LEU:HD23	6:AV:282:HIS:HB2	1.94	0.50
7:AY:151:MET:HG3	7:Aq:138:LEU:HD11	1.94	0.50
7:Al:161:PHE:HA	7:Al:171:LYS:O	2.12	0.50
7:Ar:265:ARG:HG3	7:At:25:ILE:HD12	1.93	0.50
7:As:30:THR:OG1	7:As:33:GLN:OE1	2.19	0.50
7:As:80:ASN:N	7:As:80:ASN:OD1	2.44	0.50
7:At:34:ILE:O	7:At:38:ILE:HG12	2.12	0.50
6:Au:101:ARG:HD3	6:Ay:146:PRO:HD3	1.94	0.50
2:B1:302:LYS:O	2:B1:307:SER:N	2.41	0.50
2:B4:411:ARG:HG2	2:B4:415:VAL:HB	1.94	0.50
2:B5:211:GLN:OE1	2:B5:329:ASN:ND2	2.40	0.50
5:BA:495:ASP:OD1	5:BA:495:ASP:N	2.44	0.50
5:BG:99:ALA:O	5:BG:411:GLN:NE2	2.45	0.50
11:BP:9:ASN:HB3	11:BP:56:TYR:HE2	1.76	0.50
3:BY:17:ARG:HG3	3:BY:20:LEU:HD12	1.94	0.50
3:Bg:5:ASP:OD2	3:Bg:8:ARG:NH2	2.45	0.50
3:Bj:16:ALA:HB3	3:Bm:75:ASN:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:601:ILE:HG23	2:Bp:630:GLN:H	1.76	0.50
2:Br:653:GLU:O	2:Bu:17:SER:OG	2.26	0.50
2:Bv:134:VAL:HG12	2:Bv:140:ILE:HA	1.94	0.50
2:Bw:379:ALA:HB2	2:Bw:454:TYR:HE2	1.77	0.50
2:By:638:ILE:HG23	2:Bz:623:PHE:HD2	1.77	0.50
2:Bz:41:ILE:HD11	2:Bz:361:PHE:HB3	1.94	0.50
4:C:9:PRO:HD3	4:C:57:VAL:HG21	1.94	0.50
4:C:44:MET:HE2	4:H:25:ILE:HD13	1.93	0.50
1:k:60:TYR:OH	1:k:136:ASP:OD2	2.28	0.50
8:r:102:ALA:HB1	8:r:241:ASP:HB3	1.94	0.50
8:s:6:TYR:CD1	8:t:132:GLN:HG2	2.47	0.50
8:s:134:VAL:HG21	8:s:188:TRP:CE3	2.47	0.50
8:s:238:VAL:HG13	8:s:239:PRO:HD2	1.94	0.50
9:v:78:ASP:OD2	9:v:82:LYS:NZ	2.41	0.50
9:w:168:LYS:HB3	9:w:173:ILE:HD11	1.94	0.50
2:2:310:TYR:O	2:2:314:PHE:CB	2.60	0.50
2:3:157:VAL:HG23	2:3:159:GLU:H	1.76	0.50
2:5:582:SER:OG	9:z:167:GLU:OE1	2.29	0.50
5:A0:171:ILE:HD11	5:A0:424:THR:HG22	1.94	0.50
5:A2:217:CYS:HA	6:BM:442:ASN:HA	1.94	0.50
6:A5:340:ILE:HG13	6:A5:343:ALA:H	1.77	0.50
6:A7:72:HIS:CE1	6:A8:121:THR:HG21	2.46	0.50
2:AK:222:VAL:HG21	2:AK:238:ILE:HD11	1.94	0.50
2:AK:394:VAL:HG11	2:AK:443:ILE:HD12	1.93	0.50
2:AK:505:LEU:HD21	2:AK:525:VAL:HG12	1.93	0.50
2:AL:457:GLN:HA	2:AL:503:ILE:HG23	1.94	0.50
2:AM:455:LYS:HD3	2:AM:457:GLN:HB2	1.94	0.50
10:AU:332:SER:HB2	10:AU:335:TYR:HB2	1.94	0.50
6:Ac:176:ASP:OD1	6:Ac:177:ILE:N	2.45	0.50
6:Ag:450:TYR:HA	6:Ag:479:ILE:HG22	1.92	0.50
7:Al:127:ARG:NH1	6:Ap:284:MET:SD	2.85	0.50
2:B5:31:GLY:O	2:B5:82:ARG:HA	2.12	0.50
2:B6:159:GLU:HB3	2:B6:163:LEU:HA	1.92	0.50
6:BJ:494:SER:HA	11:BR:37:ASP:CG	2.37	0.50
3:BY:24:GLU:OE1	3:BY:33:THR:OG1	2.27	0.50
3:Bb:31:ASN:OD1	3:Bb:35:GLN:NE2	2.44	0.50
3:Bc:114:ARG:HG2	3:Bc:126:GLU:HG3	1.94	0.50
3:Bh:76:ASP:OD1	3:Bh:80:ASP:N	2.42	0.50
2:Bq:239:VAL:HA	2:Bq:335:SER:HA	1.94	0.50
2:Bq:561:LYS:HG2	2:Bs:10:LEU:HD22	1.94	0.50
2:Bt:20:VAL:HG21	2:Bt:46:ASN:HD21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:107:GLY:HA3	2:Bt:110:TYR:HE1	1.77	0.50
2:Bv:379:ALA:HB2	2:Bv:454:TYR:HE2	1.76	0.50
2:By:222:VAL:HG21	2:By:238:ILE:HD11	1.93	0.50
8:q:91:ASN:OD1	8:q:92:ILE:N	2.45	0.50
9:y:118:ASP:O	9:y:120:SER:N	2.45	0.50
2:1:295:LEU:HA	2:1:309:ILE:HB	1.95	0.49
3:8:75:ASN:HB3	3:8:151:GLN:HG3	1.94	0.49
8:AB:97:LEU:HB2	9:z:5:LEU:HD23	1.94	0.49
2:AM:244:TYR:HD1	2:AM:265:ALA:HB1	1.77	0.49
2:AM:510:ARG:HG2	2:AM:511:GLN:H	1.77	0.49
6:An:521:ILE:HA	6:BK:341:ARG:HH22	1.77	0.49
7:At:30:THR:C	7:At:32:ASP:H	2.20	0.49
6:Au:268:ALA:HB3	6:Au:471:MET:HG2	1.94	0.49
5:Av:31:ILE:H	5:Av:31:ILE:HD13	1.76	0.49
6:Aw:104:PRO:HD2	6:Aw:300:LEU:HD21	1.93	0.49
2:B1:157:VAL:HG23	2:B1:159:GLU:H	1.77	0.49
2:B3:15:VAL:H	2:Bz:643:VAL:HG22	1.77	0.49
2:B4:66:MET:HG2	2:B4:468:VAL:HG21	1.94	0.49
2:B4:561:LYS:HD2	2:B6:10:LEU:HD13	1.92	0.49
2:B5:134:VAL:HG12	2:B5:140:ILE:HG22	1.94	0.49
2:B5:205:MET:O	2:B5:211:GLN:NE2	2.45	0.49
2:B6:37:PRO:HG3	2:B6:226:TYR:CZ	2.45	0.49
5:BA:188:ILE:HG22	5:BA:202:TYR:HB3	1.94	0.49
6:BK:124:VAL:HG13	6:BK:257:GLN:HB2	1.94	0.49
3:BX:24:GLU:HB3	3:BX:112:ILE:HG23	1.93	0.49
3:BY:47:GLU:OE1	3:Bc:148:ASN:ND2	2.44	0.49
2:Bs:494:TYR:CZ	2:Bt:569:LYS:HD3	2.47	0.49
2:Bu:585:ARG:NH2	2:Bu:608:CYS:O	2.40	0.49
4:a:66:LYS:NZ	4:a:70:GLU:OE2	2.44	0.49
1:n:207:LEU:HD11	8:u:66:ALA:HB3	1.94	0.49
1:n:235:TYR:OH	8:u:19:ASP:OD2	2.27	0.49
2:2:365:ARG:NH1	8:r:253:GLN:OE1	2.45	0.49
2:2:398:ASP:O	2:2:401:GLN:HG2	2.13	0.49
2:2:634:SER:HB2	2:AP:574:GLU:H	1.76	0.49
2:3:107:GLY:HA3	2:3:110:TYR:HE2	1.76	0.49
2:3:240:SER:OG	2:3:334:PHE:O	2.23	0.49
2:4:117:THR:HA	2:4:127:THR:HA	1.94	0.49
2:5:61:THR:O	2:5:63:ASP:N	2.44	0.49
2:5:268:VAL:HG21	2:5:282:ILE:HD11	1.94	0.49
5:A0:495:ASP:OD1	5:A0:495:ASP:N	2.38	0.49
5:A2:223:GLU:HG3	5:BD:197:LYS:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A8:317:GLY:HA3	6:A8:516:VAL:HG12	1.94	0.49
8:AB:255:PHE:O	2:AD:401:GLN:NE2	2.45	0.49
2:AD:637:TYR:HB2	2:AN:622:GLU:HG2	1.94	0.49
3:AH:39:THR:HG22	3:AH:71:VAL:HG22	1.93	0.49
3:AH:54:MET:HE3	3:Bj:20:LEU:HA	1.93	0.49
10:AQ:360:TYR:OH	6:Az:342:GLY:O	2.30	0.49
6:AV:88:VAL:HG12	6:BJ:254:ILE:HD12	1.93	0.49
6:AW:344:ARG:O	6:AW:345:TRP:HB3	2.13	0.49
7:Ab:216:SER:O	7:Ab:220:ASN:ND2	2.34	0.49
6:Ak:267:LYS:HD3	6:Ao:247:TRP:HE3	1.77	0.49
6:Am:264:ARG:NE	6:BJ:155:SER:OG	2.43	0.49
6:Ap:121:THR:HB	6:BI:79:ILE:HG23	1.93	0.49
7:Aq:34:ILE:O	7:Aq:38:ILE:HG12	2.11	0.49
7:Aq:76:LEU:HD13	7:Aq:81:VAL:HG21	1.94	0.49
6:Au:83:GLN:NE2	11:BS:36:SER:OG	2.38	0.49
6:Au:119:SER:OG	6:BJ:92:GLY:O	2.20	0.49
2:B2:264:THR:O	2:B2:266:LYS:N	2.46	0.49
2:B3:40:GLN:H	2:B3:81:VAL:HG23	1.77	0.49
2:B6:641:ASN:HB2	2:B7:626:THR:HG22	1.94	0.49
5:BA:423:LYS:HG3	5:BA:437:TRP:CD1	2.47	0.49
7:BC:162:TRP:CD1	7:BE:55:LYS:H	2.29	0.49
6:BI:103:ILE:HD12	6:BI:296:THR:HG21	1.94	0.49
6:BM:344:ARG:NH2	6:BM:348:GLU:OE2	2.45	0.49
3:Bj:100:THR:OG1	3:Bj:101:GLY:N	2.46	0.49
3:Bo:23:VAL:HG11	3:Bo:39:THR:HG21	1.95	0.49
3:Bo:136:ASN:O	3:Bo:136:ASN:ND2	2.43	0.49
2:Bs:125:ILE:HG22	2:Bs:149:LYS:HD3	1.94	0.49
2:Bu:576:ASN:HD21	2:Bu:623:PHE:HD1	1.59	0.49
2:Bv:116:ILE:HD12	2:Bv:171:ILE:HG12	1.94	0.49
2:Bx:26:THR:HB	2:Bx:77:ASP:HB3	1.95	0.49
2:By:101:TYR:CZ	2:By:143:ILE:HG12	2.47	0.49
2:Bz:57:PRO:HB3	2:Bz:62:ALA:HA	1.93	0.49
2:Bz:236:ILE:HD11	2:Bz:323:ILE:HG21	1.94	0.49
1:n:109:GLN:HG2	8:u:70:THR:HG21	1.94	0.49
8:s:44:ALA:HB3	8:s:78:HIS:HB2	1.94	0.49
8:s:91:ASN:OD1	8:s:92:ILE:N	2.44	0.49
2:1:23:SER:HB3	2:1:74:TYR:O	2.12	0.49
2:4:220:PRO:HG2	2:4:338:LEU:HD11	1.93	0.49
5:A1:473:ALA:HB2	5:BD:467:ILE:HD13	1.95	0.49
5:A3:178:ASP:HB3	5:A3:181:GLN:HG2	1.94	0.49
6:A5:331:VAL:HG21	6:A5:519:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:350:PHE:HB2	6:A5:389:VAL:HG11	1.94	0.49
3:AI:17:ARG:HH21	3:AJ:150:ILE:HG22	1.77	0.49
3:AJ:100:THR:OG1	3:AJ:101:GLY:N	2.45	0.49
2:AK:91:ASN:HA	2:AK:227:PRO:HA	1.94	0.49
2:AM:453:ASN:HD21	2:AM:525:VAL:HB	1.76	0.49
2:AN:209:ASP:OD1	2:AN:209:ASP:N	2.45	0.49
2:AN:332:GLU:N	2:AN:332:GLU:OE1	2.43	0.49
2:AP:406:LEU:HD13	2:AP:475:ALA:HB2	1.94	0.49
2:AP:521:ALA:HB1	2:AP:541:ALA:HA	1.94	0.49
6:Ac:237:GLU:HG2	6:Ac:246:PRO:HA	1.94	0.49
6:Ac:380:ARG:NH2	6:Ag:366:ARG:HH11	2.10	0.49
6:Ad:142:GLU:HG3	6:Ad:145:HIS:HB2	1.94	0.49
6:Ae:503:ILE:HG23	6:Ae:507:LEU:HD12	1.93	0.49
6:Ah:305:GLU:HA	6:BI:225:ALA:HB3	1.93	0.49
6:Ah:400:LEU:HD11	6:BI:417:LEU:HG	1.93	0.49
6:Ai:264:ARG:NE	6:Am:155:SER:OG	2.37	0.49
6:Ao:255:ASP:OD1	6:Ao:495:ARG:NE	2.43	0.49
7:Aq:2:SER:OG	7:Aq:3:GLY:N	2.44	0.49
6:Aw:131:TYR:HE1	6:Aw:141:LYS:HB2	1.77	0.49
2:B2:101:TYR:CZ	2:B2:143:ILE:HG12	2.47	0.49
6:BM:149:GLY:H	6:BM:186:GLY:HA2	1.77	0.49
11:BP:29:SER:HB2	11:BP:59:VAL:HG22	1.94	0.49
11:BP:62:GLU:HG2	11:BT:4:THR:HG21	1.92	0.49
3:Bh:28:LEU:HD22	3:Bh:84:LYS:HB3	1.93	0.49
3:Bm:140:LEU:HD13	3:Bm:153:PHE:HB3	1.93	0.49
2:Bp:157:VAL:HG23	2:Bp:159:GLU:H	1.77	0.49
2:Bp:246:LYS:HB2	2:Bp:250:ALA:HB2	1.94	0.49
2:Bq:222:VAL:HG21	2:Bq:238:ILE:HD11	1.93	0.49
2:Bs:550:ARG:HB3	2:Bs:553:VAL:HG12	1.94	0.49
2:Bs:653:GLU:HB2	2:Bv:16:GLN:HA	1.94	0.49
2:Bv:470:LEU:HD23	2:Bv:525:VAL:HG21	1.93	0.49
2:Bw:202:GLU:OE1	2:Bw:203:ALA:N	2.46	0.49
4:M:44:MET:HE2	4:N:25:ILE:HD13	1.93	0.49
1:n:147:PHE:HB3	1:n:171:ALA:HB1	1.93	0.49
2:1:411:ARG:HG3	2:1:415:VAL:HG21	1.94	0.49
2:4:235:GLU:HG3	2:4:284:ARG:HB2	1.93	0.49
6:A4:229:ALA:HB3	6:A4:232:ILE:HG12	1.94	0.49
6:A7:67:GLU:OE2	6:Ay:252:PHE:N	2.42	0.49
2:AN:91:ASN:N	2:AN:91:ASN:OD1	2.45	0.49
2:AP:148:ALA:O	2:AP:151:ILE:HG13	2.12	0.49
7:Aa:265:ARG:HG3	7:Ab:25:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:80:ALA:HA	6:Ae:93:PRO:HG3	1.95	0.49
6:Af:328:LYS:HB3	6:Af:331:VAL:HG13	1.95	0.49
6:Ai:151:ASP:HB3	6:Ai:154:PHE:HB2	1.94	0.49
6:Ap:360:GLU:OE1	6:Ap:514:ARG:NH1	2.45	0.49
7:Aq:30:THR:HG22	7:As:24:ILE:HD11	1.94	0.49
5:Ax:115:LYS:HD3	5:Ax:445:LYS:HE3	1.92	0.49
6:Az:240:ASN:HD22	6:BK:66:ALA:HB3	1.77	0.49
6:Az:493:ALA:O	6:Az:497:GLN:NE2	2.45	0.49
2:B1:29:LEU:HB2	2:B1:78:LEU:HD11	1.94	0.49
2:B1:225:LEU:HD23	2:B1:226:TYR:CZ	2.47	0.49
2:B2:446:THR:OG1	2:B2:554:ARG:NH2	2.45	0.49
5:BF:477:ILE:HA	5:BF:481:ILE:HG23	1.92	0.49
5:BG:244:ASP:O	5:BG:246:CYS:N	2.45	0.49
3:BY:28:LEU:HD22	3:BY:84:LYS:HB3	1.95	0.49
3:Bf:134:PRO:HA	3:Bf:157:LEU:HA	1.94	0.49
2:Bp:351:THR:HG23	2:Bp:354:ASP:H	1.77	0.49
2:Bp:455:LYS:HD2	2:Bp:502:VAL:HG22	1.94	0.49
2:Bt:91:ASN:N	2:Bt:91:ASN:OD1	2.45	0.49
2:Bu:611:THR:HG21	2:Bw:20:VAL:HG21	1.94	0.49
2:Bv:455:LYS:HD3	2:Bv:502:VAL:HG22	1.94	0.49
2:Bw:498:GLN:HA	2:Bw:534:VAL:HG12	1.93	0.49
8:q:26:ILE:HG12	8:q:37:ILE:HG12	1.94	0.49
8:r:228:GLY:O	8:r:258:ASN:ND2	2.40	0.49
8:u:108:GLN:HB2	8:u:202:VAL:HG12	1.92	0.49
2:2:561:LYS:HD3	8:r:231:GLU:HG2	1.93	0.49
2:4:157:VAL:HG23	2:4:159:GLU:H	1.76	0.49
2:5:57:PRO:HG3	2:5:65:PHE:CD1	2.48	0.49
2:5:132:THR:HB	2:5:142:LYS:HB2	1.93	0.49
2:5:609:ASP:HB2	2:5:611:THR:HG22	1.94	0.49
3:7:134:PRO:HA	3:7:157:LEU:HA	1.95	0.49
6:A5:142:GLU:H	6:A5:490:GLN:HG2	1.76	0.49
7:A6:50:PHE:HB3	7:A6:302:PRO:HD3	1.94	0.49
8:AB:243:ASP:OD1	8:AB:243:ASP:N	2.43	0.49
9:AC:103:THR:O	9:AC:107:THR:OG1	2.30	0.49
2:AD:37:PRO:O	2:AD:82:ARG:HB3	2.12	0.49
2:AD:401:GLN:O	2:AD:561:LYS:NZ	2.45	0.49
2:AK:70:ASN:ND2	2:AK:457:GLN:OE1	2.41	0.49
2:AN:311:ILE:HB	2:AN:327:ALA:HB2	1.95	0.49
2:AO:222:VAL:HG21	2:AO:238:ILE:HD11	1.95	0.49
2:AP:455:LYS:HG2	2:AP:457:GLN:HB2	1.93	0.49
6:AW:171:GLN:NE2	6:AW:172:THR:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AZ:121:THR:HG23	6:AZ:260:GLU:HG2	1.94	0.49
6:Ap:345:TRP:O	6:Ap:348:GLU:N	2.31	0.49
5:Av:259:LYS:NZ	5:Av:263:GLN:OE1	2.41	0.49
5:Ax:55:ASN:O	5:Ax:59:GLN:HG2	2.13	0.49
6:Ay:184:GLU:O	6:Ay:185:THR:OG1	2.29	0.49
2:B1:440:ASN:N	2:B1:440:ASN:OD1	2.44	0.49
2:B4:451:ASP:OD1	2:B4:452:GLY:N	2.45	0.49
2:B6:247:GLY:O	2:B6:263:SER:OG	2.31	0.49
2:B7:35:TRP:HH2	2:B7:224:ALA:HB1	1.77	0.49
5:BF:39:GLY:HA3	5:BF:250:ILE:HG12	1.95	0.49
5:BF:91:ALA:HB1	5:BF:375:VAL:HG21	1.93	0.49
7:BL:137:ASP:OD1	7:BL:137:ASP:N	2.46	0.49
11:BN:18:ASP:HB3	11:BN:21:LYS:HD3	1.93	0.49
11:BU:21:LYS:HA	11:BU:80:GLY:HA2	1.95	0.49
3:BX:54:MET:O	3:BX:56:ARG:N	2.46	0.49
3:Bb:58:ILE:H	3:Bb:58:ILE:HD13	1.76	0.49
3:Bc:37:LYS:HB2	3:Bc:74:MET:HE3	1.94	0.49
3:Bk:83:GLN:HA	3:Bk:86:VAL:HG22	1.93	0.49
2:Bq:423:VAL:HG21	2:Bq:513:GLN:HB3	1.94	0.49
2:Bs:538:ASP:HB2	2:Bs:551:ILE:HB	1.95	0.49
2:Bu:30:ALA:HB3	2:Bu:359:TRP:CE2	2.48	0.49
2:Bu:95:ILE:HD13	2:Bu:213:ASN:HB2	1.93	0.49
2:Bv:202:GLU:OE1	2:Bv:203:ALA:N	2.36	0.49
2:Bx:116:ILE:HD13	2:Bx:171:ILE:HG23	1.94	0.49
8:t:256:THR:HG21	8:t:271:ARG:HB2	1.94	0.49
8:u:9:SER:HB3	8:u:198:MET:HE2	1.95	0.49
1:0:180:GLU:HB2	8:q:30:LEU:HD21	1.94	0.49
1:0:223:GLN:NE2	1:k:69:ASP:OD1	2.45	0.49
2:1:102:THR:HB	2:1:183:THR:HB	1.94	0.49
2:1:205:MET:O	2:1:211:GLN:NE2	2.45	0.49
2:3:467:TRP:HH2	2:AK:199:GLU:HB2	1.78	0.49
2:4:278:GLN:HG2	2:4:296:SER:HB3	1.94	0.49
2:4:514:ARG:NH1	2:AL:366:GLU:OE2	2.46	0.49
3:8:18:PRO:HB2	3:9:146:SER:HB2	1.94	0.49
3:9:46:VAL:HG22	3:9:64:ARG:HD2	1.94	0.49
3:9:114:ARG:HG2	3:9:126:GLU:HG2	1.95	0.49
5:A2:81:ASN:HD22	7:BL:122:GLY:HA2	1.77	0.49
6:A4:117:MET:HG2	6:A4:118:ASN:H	1.78	0.49
7:A6:13:LYS:HG3	7:A6:34:ILE:HG21	1.95	0.49
3:AG:54:MET:HE3	3:Bg:20:LEU:HA	1.94	0.49
2:AK:106:PRO:HB2	2:AK:139:LYS:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:488:TRP:HB3	2:AL:556:LEU:HD13	1.93	0.49
2:AM:518:TYR:HE1	2:AM:537:GLY:HA3	1.78	0.49
2:AO:514:ARG:NH1	2:B5:364:ASP:OD1	2.45	0.49
2:AP:454:TYR:HB3	2:AP:467:TRP:CD1	2.47	0.49
6:AV:85:SER:HB2	11:BR:35:TYR:HE2	1.78	0.49
6:AW:340:ILE:HG13	6:AW:343:ALA:H	1.77	0.49
6:AZ:254:ILE:HD12	6:Am:88:VAL:HB	1.95	0.49
6:Af:151:ASP:HB3	6:Af:154:PHE:HB2	1.94	0.49
6:Ag:240:ASN:OD1	6:Aw:66:ALA:N	2.45	0.49
6:Ak:151:ASP:HB3	6:Ak:154:PHE:HB2	1.93	0.49
6:Am:404:PHE:HB3	6:Am:414:ALA:HB1	1.93	0.49
7:As:159:PRO:HB3	7:As:174:GLY:O	2.12	0.49
5:Av:45:VAL:HG22	5:Av:57:ALA:HB2	1.93	0.49
2:B1:225:LEU:HD12	2:B1:324:PHE:HB2	1.95	0.49
2:B1:364:ASP:O	2:B1:367:SER:N	2.44	0.49
2:B2:346:SER:O	2:B2:350:VAL:HG23	2.12	0.49
2:B3:593:GLN:NE2	3:Bh:4:ASP:OD2	2.42	0.49
5:BD:469:MET:HG2	5:BD:490:ILE:HG23	1.94	0.49
7:BL:180:ASP:OD1	7:BL:181:LEU:N	2.42	0.49
3:Bb:69:TRP:HB2	3:Bb:159:LEU:HD23	1.93	0.49
2:Bq:239:VAL:HG22	2:Bq:280:ALA:HB3	1.95	0.49
2:Br:91:ASN:HB2	2:Br:193:ILE:HG23	1.95	0.49
2:Br:331:PRO:HB2	2:Br:334:PHE:HB2	1.94	0.49
2:Br:430:ARG:HG3	2:Br:522:ILE:HD11	1.95	0.49
2:Bs:133:GLU:HB3	2:Bs:141:LYS:HB2	1.94	0.49
2:Bu:251:LEU:HD22	2:Bu:262:ALA:HA	1.94	0.49
2:Bv:46:ASN:OD1	2:Bv:47:GLU:N	2.46	0.49
2:Bv:488:TRP:HB3	2:Bv:556:LEU:HD12	1.95	0.49
2:Bw:455:LYS:HD3	2:Bw:502:VAL:HG13	1.94	0.49
1:k:76:LEU:HD21	8:r:128:ASP:HB3	1.94	0.49
1:m:176:TYR:CE2	1:m:179:GLU:HG3	2.47	0.49
8:r:261:ARG:HA	8:r:271:ARG:HD3	1.95	0.49
2:1:510:ARG:HG3	2:AO:364:ASP:HB2	1.94	0.49
2:1:569:LYS:HD2	8:q:251:VAL:HG11	1.94	0.49
2:2:351:THR:OG1	2:2:352:ALA:N	2.46	0.49
2:4:597:ALA:HB1	3:9:3:VAL:HA	1.94	0.49
2:5:575:LEU:HD11	8:u:97:LEU:HD21	1.93	0.49
3:8:98:GLU:HA	3:AI:2:PHE:HA	1.93	0.49
3:8:103:LYS:NZ	3:AJ:13:GLY:O	2.40	0.49
2:AK:26:THR:HA	2:AK:77:ASP:O	2.13	0.49
2:AK:41:ILE:HD13	2:AK:81:VAL:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AO:10:LEU:HD13	2:B2:561:LYS:HD2	1.94	0.49
2:AO:417:ILE:H	2:AO:417:ILE:HD13	1.76	0.49
2:AO:521:ALA:HB1	2:AO:541:ALA:HA	1.95	0.49
10:AR:303:ALA:HB3	10:AR:344:MET:HE3	1.95	0.49
6:AV:467:PHE:CD2	6:BJ:459:LEU:HB3	2.47	0.49
7:AY:18:ARG:HD3	7:BL:32:ASP:HB3	1.95	0.49
6:AZ:432:ASP:HB3	6:AZ:518:VAL:HG22	1.94	0.49
6:Ac:120:PRO:HD3	6:Ac:453:TYR:CZ	2.48	0.49
6:Ad:515:ARG:NH1	6:Ad:517:TYR:OH	2.46	0.49
6:Ae:145:HIS:HB3	6:Ae:148:TYR:HB2	1.93	0.49
6:Ae:336:ASP:HB3	6:Ae:339:ASP:HB2	1.94	0.49
6:Af:123:GLN:HB3	6:Az:93:PRO:HB2	1.93	0.49
6:Ai:131:TYR:CD2	6:Ai:250:MET:HE3	2.45	0.49
6:Am:184:GLU:O	6:Am:185:THR:OG1	2.28	0.49
6:An:190:LEU:HB3	6:An:221:LEU:HB3	1.95	0.49
6:Ap:199:ASP:OD2	6:Ap:207:LYS:NZ	2.32	0.49
6:Au:241:GLY:HA3	11:BN:43:GLY:HA2	1.95	0.49
6:Aw:107:ILE:HD13	6:Aw:424:TYR:CD1	2.48	0.49
2:B4:488:TRP:O	2:B4:552:ASN:ND2	2.42	0.49
2:B6:28:ALA:HB2	2:B6:370:VAL:HG11	1.95	0.49
2:B6:99:ILE:O	2:B6:100:GLU:HG3	2.13	0.49
2:B6:446:THR:OG1	2:B6:554:ARG:NH2	2.46	0.49
5:BA:38:ASP:OD2	5:BA:186:ARG:NH2	2.45	0.49
5:BA:184:TYR:OH	5:BA:204:GLU:OE1	2.31	0.49
5:BG:455:ALA:HA	5:BG:458:LYS:HD3	1.94	0.49
3:Bm:42:PRO:HG3	3:Bm:69:TRP:CD1	2.48	0.49
3:Bn:51:VAL:N	3:Bn:58:ILE:O	2.42	0.49
2:Br:571:ARG:NH1	2:Br:583:SER:OG	2.46	0.49
2:Bs:379:ALA:HB2	2:Bs:454:TYR:HE2	1.78	0.49
2:Bu:36:GLY:O	2:Bu:82:ARG:NH1	2.41	0.49
2:Bv:642:PHE:CZ	2:Bw:561:LYS:HG2	2.47	0.49
2:Bw:159:GLU:OE2	2:Bw:166:ASN:ND2	2.46	0.49
4:F:44:MET:HE2	4:Q:25:ILE:HD13	1.95	0.49
4:V:62:ILE:HD12	4:a:58:LEU:HD22	1.94	0.49
1:m:175:ILE:HD11	8:t:125:ARG:HH11	1.78	0.49
2:5:351:THR:OG1	2:5:352:ALA:N	2.46	0.49
5:A0:162:ILE:HD11	5:A0:167:PRO:HA	1.93	0.49
5:A3:348:ASP:OD1	5:A3:349:THR:N	2.46	0.49
7:A6:40:ARG:HH21	7:A6:254:LEU:HD22	1.77	0.49
6:A8:287:ASP:HA	6:A8:290:LEU:HD12	1.95	0.49
3:AJ:70:THR:HG23	3:AJ:156:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:119:LYS:HE3	2:AL:122:SER:HA	1.95	0.49
2:AM:110:TYR:CE1	2:AM:177:GLY:HA3	2.48	0.49
2:AN:82:ARG:NH2	2:AN:227:PRO:O	2.42	0.49
10:AT:331:ASP:OD1	10:AT:331:ASP:N	2.46	0.49
6:AW:426:ASP:OD2	6:AW:433:TYR:OH	2.30	0.49
6:AX:76:ALA:HB1	6:AZ:496:ILE:HG12	1.95	0.49
6:AZ:131:TYR:CD2	6:AZ:250:MET:HE3	2.48	0.49
7:Aa:34:ILE:O	7:Aa:38:ILE:HG12	2.12	0.49
7:Aa:159:PRO:HB3	7:Aa:174:GLY:O	2.13	0.49
6:Ai:408:THR:HG21	6:Ai:427:GLN:HB3	1.95	0.49
6:Ak:390:ASP:OD2	6:Ak:394:SER:OG	2.30	0.49
6:Ap:496:ILE:HG22	6:BI:76:ALA:HB1	1.95	0.49
7:Ar:13:LYS:HG3	7:Ar:34:ILE:HG21	1.94	0.49
7:Ar:191:TYR:HD2	7:Ar:193:ASP:H	1.60	0.49
7:As:43:GLU:O	7:As:47:GLU:HG2	2.12	0.49
6:Ay:124:VAL:HG21	6:Ay:444:MET:HE1	1.95	0.49
6:Az:111:ILE:H	6:Az:111:ILE:HD13	1.77	0.49
2:B1:42:LYS:HE2	2:B1:53:THR:HG21	1.93	0.49
2:B1:206:THR:HA	2:B1:211:GLN:HE21	1.78	0.49
2:B5:264:THR:O	2:B5:266:LYS:N	2.46	0.49
2:B6:61:THR:HG22	2:B6:65:PHE:HB2	1.94	0.49
2:B7:29:LEU:O	2:B7:80:VAL:HA	2.13	0.49
5:BA:476:PHE:HB3	5:BA:480:TYR:HB2	1.95	0.49
6:BK:414:ALA:HB3	6:BK:423:VAL:HG13	1.95	0.49
7:BL:81:VAL:HA	7:BL:188:THR:HA	1.94	0.49
11:BP:9:ASN:HB3	11:BP:56:TYR:CE2	2.47	0.49
3:Bj:48:LYS:HG3	3:Bj:59:ASN:HB3	1.94	0.49
3:Bn:23:VAL:HG11	3:Bn:39:THR:HG21	1.94	0.49
3:Bn:51:VAL:HB	3:Bn:58:ILE:HG12	1.95	0.49
2:Bp:545:PRO:HD3	2:Bs:271:TYR:HB3	1.93	0.49
2:Bu:302:LYS:O	2:Bu:307:SER:N	2.46	0.49
4:G:44:MET:HE2	4:R:25:ILE:HD13	1.94	0.49
4:M:47:PRO:HB2	4:O:48:THR:HG21	1.93	0.49
9:v:50:VAL:HG13	9:v:55:GLY:HA2	1.95	0.49
2:2:256:PRO:HG2	2:2:339:THR:H	1.78	0.49
2:4:374:ILE:HG12	2:4:406:LEU:HD11	1.93	0.49
3:7:113:VAL:HG13	3:7:127:ILE:HG23	1.93	0.49
5:A0:276:ILE:HD13	7:BC:143:GLN:HB2	1.95	0.49
7:A6:134:PHE:HB2	7:Al:106:TRP:CD1	2.48	0.49
2:AD:600:GLY:O	2:AD:632:ALA:HB2	2.13	0.49
2:AP:100:GLU:OE2	2:AP:186:LYS:NZ	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AW:151:ASP:HB3	6:AW:154:PHE:HB2	1.95	0.49
6:AW:311:ASN:OD1	6:AW:515:ARG:NE	2.46	0.49
6:AZ:267:LYS:HG3	6:Ad:247:TRP:CE3	2.48	0.49
6:AZ:416:VAL:HG12	6:AZ:419:GLY:H	1.78	0.49
6:Aj:333:ASP:HB3	6:Aj:336:ASP:HB2	1.95	0.49
6:An:494:SER:C	6:An:496:ILE:H	2.20	0.49
6:Ap:337:PRO:O	6:Ap:342:GLY:N	2.43	0.49
6:Ap:458:PRO:HG2	5:BF:70:LYS:HD2	1.94	0.49
5:Av:27:ASP:HB2	5:BB:164:PRO:HG2	1.95	0.49
6:Ay:120:PRO:O	6:Ay:121:THR:OG1	2.25	0.49
6:Ay:452:PRO:HA	6:Ay:477:TYR:HA	1.94	0.49
2:B2:272:GLY:O	2:B2:274:GLN:NE2	2.46	0.49
2:B2:510:ARG:HG2	2:B2:511:GLN:H	1.78	0.49
2:B3:581:ARG:HG2	2:B3:623:PHE:HE1	1.78	0.49
2:B6:79:ARG:NH2	2:B6:369:ASP:OD1	2.46	0.49
2:B6:511:GLN:OE1	2:Bq:5:SER:OG	2.31	0.49
2:B7:26:THR:HA	2:B7:77:ASP:O	2.12	0.49
2:B7:409:PRO:HD3	2:B7:451:ASP:HB3	1.94	0.49
5:BB:82:LEU:HD22	5:BB:258:VAL:HG22	1.93	0.49
7:BC:97:SER:HB3	7:BC:103:THR:HA	1.95	0.49
7:BC:135:GLY:O	5:BG:259:LYS:NZ	2.33	0.49
6:BI:71:ASP:OD1	6:BI:72:HIS:N	2.45	0.49
7:BL:30:THR:OG1	7:BL:33:GLN:OE1	2.17	0.49
6:BM:350:PHE:HB2	6:BM:389:VAL:HG11	1.93	0.49
11:BN:11:LYS:HG3	11:BN:27:GLU:HG2	1.94	0.49
3:BY:25:ILE:HD13	3:BY:88:TRP:HZ3	1.78	0.49
3:BY:128:GLU:HB3	3:BY:130:LYS:HE2	1.95	0.49
3:BI:41:LEU:HD12	3:BI:42:PRO:HD2	1.93	0.49
2:Bp:23:SER:OG	2:Bp:74:TYR:O	2.29	0.49
2:Bt:362:PHE:O	2:Bt:400:ARG:NE	2.46	0.49
2:Bx:556:LEU:HD11	2:Bx:601:ILE:HG12	1.95	0.49
2:By:110:TYR:CE1	2:By:177:GLY:HA3	2.48	0.49
1:k:214:ASN:OD1	8:r:55:LYS:NZ	2.37	0.49
8:t:151:GLU:OE1	8:t:199:TYR:OH	2.27	0.49
9:w:91:MET:HE1	9:w:138:LEU:HB2	1.94	0.49
2:1:304:ILE:HG13	2:1:305:TYR:H	1.78	0.49
2:2:278:GLN:HG2	2:2:296:SER:HB3	1.94	0.49
5:A0:39:GLY:H	5:A0:250:ILE:HD11	1.78	0.49
5:A1:245:CYS:HB2	7:AY:125:CYS:HA	1.95	0.49
6:A8:275:ALA:HA	6:A8:286:ALA:HB1	1.95	0.49
6:A8:336:ASP:HB3	6:A8:339:ASP:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A9:317:GLY:HA3	6:A9:516:VAL:HG22	1.94	0.49
3:AE:24:GLU:OE1	3:AE:33:THR:OG1	2.27	0.49
3:AE:49:ILE:HD11	3:Ba:150:ILE:HB	1.94	0.49
3:AG:137:VAL:HB	3:AG:155:VAL:HG13	1.95	0.49
3:AG:140:LEU:HD13	3:AG:153:PHE:HB3	1.95	0.49
2:AO:521:ALA:HA	2:AO:539:LYS:HE3	1.95	0.49
6:Ac:367:GLN:O	6:Ac:487:SER:OG	2.30	0.49
6:Ad:315:GLN:HB2	6:Ad:514:ARG:HG2	1.95	0.49
6:Am:236:GLN:HB2	6:Am:247:TRP:CZ2	2.48	0.49
7:Aq:13:LYS:HG3	7:Aq:34:ILE:HG21	1.94	0.49
2:B3:642:PHE:CE2	2:B4:564:ILE:HD11	2.48	0.49
2:B5:378:CYS:HB2	2:B5:410:PRO:HA	1.95	0.49
5:BA:271:VAL:HG21	5:BA:362:ILE:HD11	1.95	0.49
5:BB:157:PHE:HB2	5:BB:177:LEU:HB2	1.94	0.49
7:BC:307:LEU:HB2	5:BH:335:TRP:HB2	1.95	0.49
5:BF:497:GLU:HA	5:BF:500:GLN:HG2	1.95	0.49
6:BI:350:PHE:HB3	6:BI:389:VAL:HG11	1.95	0.49
3:BY:39:THR:HG22	3:BY:71:VAL:HG22	1.94	0.49
3:Bc:64:ARG:NH1	3:Bf:95:GLN:HG3	2.28	0.49
3:Bd:64:ARG:HB2	3:Bg:93:ALA:HB1	1.95	0.49
3:Bl:23:VAL:HG11	3:Bl:39:THR:HG21	1.95	0.49
2:Bu:151:ILE:O	2:Bu:155:LYS:HG2	2.12	0.49
2:Bu:202:GLU:OE1	2:Bu:203:ALA:N	2.45	0.49
2:Bw:641:ASN:HB2	2:Bx:626:THR:HA	1.95	0.49
2:Bz:444:SER:HG	2:Bz:543:SER:HG	1.58	0.49
4:L:9:PRO:HD3	4:L:57:VAL:HG21	1.94	0.49
4:L:32:LEU:HB2	4:L:43:SER:H	1.78	0.49
1:p:152:VAL:HG22	1:p:169:ILE:HG23	1.94	0.49
2:1:413:THR:OG1	2:1:425:ASN:HB3	2.13	0.48
2:3:554:ARG:NH1	8:s:231:GLU:OE2	2.40	0.48
3:6:79:HIS:CD2	3:o:125:LYS:HG2	2.48	0.48
5:A0:84:ASN:ND2	7:BC:119:GLY:O	2.42	0.48
7:A6:80:ASN:N	7:A6:80:ASN:OD1	2.45	0.48
7:A6:159:PRO:HB3	7:A6:174:GLY:O	2.13	0.48
7:A6:171:LYS:HD2	7:BL:219:TYR:CE2	2.47	0.48
9:AC:22:PRO:HB2	2:AD:571:ARG:HH12	1.78	0.48
2:AD:33:PHE:HB2	2:AD:82:ARG:HG3	1.95	0.48
2:AD:616:SER:O	2:AD:620:ARG:HG2	2.13	0.48
3:AE:142:LEU:HD22	3:AJ:41:LEU:HD13	1.95	0.48
2:AL:116:ILE:HB	2:AL:129:GLY:HA3	1.95	0.48
2:AN:119:LYS:HA	2:AN:124:ASP:HA	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:159:GLU:O	2:AP:162:THR:N	2.46	0.48
2:AP:430:ARG:HG3	2:AP:522:ILE:HD11	1.95	0.48
6:AV:79:ILE:HG21	6:AZ:258:VAL:HB	1.94	0.48
6:AW:265:GLN:HB2	6:AW:474:LYS:HG3	1.95	0.48
6:AX:123:GLN:HG2	6:BK:95:VAL:HA	1.95	0.48
6:AX:344:ARG:NE	6:AX:348:GLU:OE2	2.46	0.48
7:AY:5:ASN:OD1	7:AY:7:GLN:NE2	2.46	0.48
7:AY:12:LEU:O	7:AY:16:ILE:HG12	2.13	0.48
7:AY:219:TYR:CE1	7:BL:171:LYS:HD2	2.48	0.48
6:AZ:264:ARG:NH1	6:AZ:305:GLU:OE1	2.46	0.48
6:Ae:365:ALA:HB2	6:Ae:372:GLU:HA	1.95	0.48
6:Ai:237:GLU:HB2	6:Ai:247:TRP:HE1	1.77	0.48
7:As:34:ILE:O	7:As:38:ILE:HG12	2.13	0.48
6:Ay:494:SER:C	6:Ay:496:ILE:H	2.21	0.48
2:B4:70:ASN:ND2	2:B4:473:ASP:OD2	2.46	0.48
2:B4:264:THR:HB	2:B4:267:ALA:HB3	1.94	0.48
5:BA:91:ALA:HB1	5:BA:375:VAL:HG21	1.93	0.48
5:BD:277:THR:HG23	5:BD:278:ARG:HG3	1.94	0.48
5:BF:488:LYS:HD2	5:BF:493:MET:O	2.12	0.48
2:Bq:514:ARG:HH22	2:Br:366:GLU:HG2	1.78	0.48
2:Bs:418:PRO:HG2	2:Bs:421:ARG:HB2	1.95	0.48
2:Bt:252:LEU:HG	2:Bt:263:SER:HB3	1.94	0.48
2:Bu:446:THR:HG21	2:Bu:548:PHE:HB2	1.95	0.48
2:Bu:521:ALA:HB1	2:Bu:541:ALA:HA	1.94	0.48
2:Bv:137:ASP:OD1	2:Bv:137:ASP:N	2.44	0.48
1:k:127:VAL:C	1:k:128:ASN:HD22	2.19	0.48
2:l:44:VAL:HG13	2:l:49:ASP:HB2	1.95	0.48
5:A1:54:TYR:OH	6:BK:100:ARG:NH1	2.45	0.48
6:A5:96:MET:N	6:AW:123:GLN:O	2.46	0.48
2:AD:256:PRO:HG2	2:AD:339:THR:H	1.77	0.48
2:AL:652:ASP:HB3	2:AM:458:TYR:CE2	2.48	0.48
2:AM:312:ASP:OD1	2:AM:327:ALA:N	2.36	0.48
2:AP:70:ASN:OD1	2:AP:457:GLN:NE2	2.44	0.48
7:AY:109:ASP:OD2	7:AY:129:TYR:OH	2.27	0.48
6:Ac:268:ALA:HB3	6:Ac:471:MET:HG2	1.93	0.48
6:Ag:133:LYS:HG2	6:Ag:249:GLU:HB2	1.96	0.48
6:Ag:520:GLY:O	6:Ak:341:ARG:NH2	2.41	0.48
6:Ak:252:PHE:HD1	6:Ak:252:PHE:H	1.59	0.48
5:Av:29:VAL:HG21	5:Av:198:ILE:HD13	1.94	0.48
5:Av:56:ALA:HA	5:Av:59:GLN:HE21	1.78	0.48
6:Ay:312:TYR:CZ	6:Ay:507:LEU:HG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:32:LYS:HD2	2:B4:350:VAL:HG11	1.94	0.48
2:B4:373:PHE:HB2	2:B4:405:VAL:HG22	1.95	0.48
2:B5:116:ILE:HD11	2:B5:131:ILE:HG13	1.96	0.48
2:B5:126:GLU:HB2	2:B5:150:ILE:HD11	1.95	0.48
2:B7:42:LYS:NZ	2:B7:43:GLN:O	2.36	0.48
5:BD:494:THR:HG23	5:BD:497:GLU:H	1.78	0.48
5:BH:125:MET:O	5:BH:129:GLU:HG2	2.13	0.48
6:BK:78:ASN:ND2	11:BU:5:ARG:O	2.44	0.48
11:BT:10:ILE:HD11	11:BT:35:TYR:CE1	2.48	0.48
11:BT:11:LYS:HG3	11:BT:27:GLU:HG2	1.94	0.48
3:BX:83:GLN:HA	3:BX:86:VAL:HG22	1.95	0.48
3:Bb:74:MET:HE3	3:Bb:150:ILE:HD11	1.95	0.48
2:Bs:560:LEU:O	2:Bs:564:ILE:HG12	2.14	0.48
2:Bt:110:TYR:N	2:Bt:138:GLY:HA3	2.27	0.48
2:Bt:406:LEU:HD13	2:Bt:475:ALA:HB2	1.95	0.48
2:Bu:352:ALA:HB2	2:Bu:385:THR:HA	1.95	0.48
2:Bw:418:PRO:HG2	2:Bw:421:ARG:HE	1.78	0.48
1:k:56:VAL:HG11	1:k:140:PHE:HE1	1.78	0.48
1:p:137:LEU:HB3	1:p:146:LEU:HD21	1.95	0.48
8:t:204:ASP:OD1	8:t:205:ALA:N	2.46	0.48
9:w:139:SER:HB3	9:w:156:THR:H	1.77	0.48
1:0:76:LEU:HD21	8:q:128:ASP:HB3	1.93	0.48
2:2:571:ARG:NH2	2:2:587:GLU:OE1	2.38	0.48
2:3:464:VAL:HG12	2:AK:313:ASP:HB3	1.95	0.48
3:6:97:ASN:O	3:6:97:ASN:ND2	2.41	0.48
3:8:148:ASN:HA	9:v:47:THR:HG22	1.96	0.48
3:9:58:ILE:HG12	3:AF:6:VAL:HG21	1.96	0.48
4:A:44:MET:HE1	4:F:44:MET:HG2	1.94	0.48
5:A2:175:ARG:NH1	5:BD:32:THR:O	2.46	0.48
6:A7:284:MET:HE1	6:A8:127:LEU:HD13	1.95	0.48
6:A8:345:TRP:O	6:A8:348:GLU:HG2	2.13	0.48
6:A9:108:ALA:HB2	6:A9:303:ASN:HB2	1.95	0.48
6:A9:315:GLN:HE21	6:A9:514:ARG:HD3	1.78	0.48
8:AB:71:ILE:HG21	1:p:211:HIS:HA	1.94	0.48
3:AH:22:GLN:HB2	3:AH:116:TYR:HE1	1.78	0.48
3:AH:58:ILE:HD13	3:AH:58:ILE:H	1.78	0.48
2:AL:247:GLY:O	2:AL:263:SER:OG	2.31	0.48
2:AL:526:THR:OG1	2:AL:527:GLY:N	2.44	0.48
7:Aa:301:ASP:N	7:Aa:301:ASP:OD1	2.45	0.48
6:Ad:332:PHE:HB3	6:Ad:518:VAL:HG12	1.95	0.48
6:Ae:300:LEU:HG	6:Ai:150:PRO:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ai:235:LEU:O	6:Ai:245:ASN:ND2	2.46	0.48
6:Ai:265:GLN:HB3	6:Am:247:TRP:CZ3	2.47	0.48
6:Ai:278:LEU:HD12	6:Ai:286:ALA:HB2	1.94	0.48
6:Ao:494:SER:C	6:Ao:496:ILE:H	2.20	0.48
6:Ao:494:SER:HA	11:BU:37:ASP:CG	2.37	0.48
7:Aq:212:SER:HB2	7:Aq:227:VAL:HG21	1.95	0.48
7:At:118:ASN:OD1	7:At:118:ASN:N	2.44	0.48
2:B2:110:TYR:CE1	2:B2:177:GLY:HA3	2.49	0.48
2:B3:488:TRP:HB3	2:B3:556:LEU:HD12	1.96	0.48
2:B4:66:MET:HE1	2:B4:459:ASP:HB2	1.95	0.48
2:B4:106:PRO:HB3	2:B4:139:LYS:HA	1.95	0.48
2:B4:518:TYR:OH	2:B4:538:ASP:OD1	2.32	0.48
2:B6:34:GLN:NE2	2:B6:56:GLN:O	2.46	0.48
2:B6:272:GLY:O	2:B6:274:GLN:NE2	2.47	0.48
7:BE:70:LYS:NZ	5:BG:318:THR:O	2.46	0.48
5:BF:44:GLU:HB3	5:BF:188:ILE:HB	1.95	0.48
5:BG:94:GLU:HG3	5:BG:379:ARG:HH21	1.78	0.48
5:BG:209:ASP:O	5:BG:211:ALA:N	2.46	0.48
5:BG:474:GLU:HG3	5:BG:475:PRO:HD3	1.95	0.48
3:BX:82:ARG:HH12	3:BX:138:GLY:HA2	1.78	0.48
3:Bk:75:ASN:ND2	3:Bk:151:GLN:OE1	2.42	0.48
2:Bp:378:CYS:SG	2:Bp:454:TYR:OH	2.61	0.48
2:Br:230:LEU:HD23	2:Br:233:LYS:HB2	1.95	0.48
2:Br:302:LYS:O	2:Br:307:SER:N	2.45	0.48
2:Bt:90:LYS:NZ	2:Bt:190:ASP:OD1	2.33	0.48
2:Bt:455:LYS:HG3	2:Bt:468:VAL:HG23	1.94	0.48
2:Bt:455:LYS:NZ	2:Bt:473:ASP:OD1	2.45	0.48
2:Bw:133:GLU:HB3	2:Bw:142:LYS:HB3	1.95	0.48
2:Bw:427:VAL:HG22	2:Bw:520:GLU:HG3	1.96	0.48
2:Bx:195:LEU:HD12	2:Bx:198:ILE:HD12	1.95	0.48
8:s:241:ASP:OD1	8:s:241:ASP:N	2.46	0.48
8:s:258:ASN:OD1	8:s:258:ASN:N	2.45	0.48
9:y:91:MET:HE1	9:y:138:LEU:HB2	1.95	0.48
2:1:457:GLN:HG2	2:1:458:TYR:H	1.78	0.48
2:4:521:ALA:HB1	2:4:541:ALA:HA	1.94	0.48
2:5:128:GLU:HB2	2:5:146:PRO:HG2	1.94	0.48
3:8:97:ASN:O	3:8:97:ASN:ND2	2.46	0.48
5:A1:397:THR:OG1	5:A1:399:ASP:OD1	2.24	0.48
5:A2:293:PRO:O	5:A2:295:ARG:N	2.46	0.48
5:A3:381:PRO:HA	5:A3:384:GLN:HG2	1.94	0.48
6:A7:131:TYR:HA	6:A7:250:MET:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AB:61:SER:OG	8:AB:62:GLN:N	2.43	0.48
2:AK:131:ILE:HD13	2:AK:140:ILE:HG21	1.94	0.48
2:AK:464:VAL:HG12	2:Bs:313:ASP:HB3	1.95	0.48
2:AL:455:LYS:HD2	2:AL:502:VAL:HG22	1.96	0.48
2:AM:157:VAL:HG23	2:AM:159:GLU:H	1.78	0.48
2:AN:107:GLY:HA3	2:AN:110:TYR:HE1	1.79	0.48
2:AN:115:LYS:HB3	2:AN:172:SER:HB3	1.96	0.48
2:AN:148:ALA:O	2:AN:151:ILE:HG13	2.14	0.48
2:AP:135:ASP:N	2:AP:139:LYS:O	2.40	0.48
6:AV:365:ALA:HB2	6:AV:372:GLU:HG2	1.96	0.48
6:AZ:374:ASN:OD1	6:AZ:374:ASN:N	2.45	0.48
6:An:460:ARG:HH21	7:As:112:LEU:HD11	1.77	0.48
2:B1:4:LEU:HD11	2:B1:267:ALA:HA	1.95	0.48
2:B1:417:ILE:HD13	2:B1:417:ILE:H	1.79	0.48
2:B2:3:LEU:HD11	2:B2:9:GLU:HB2	1.96	0.48
2:B2:66:MET:HE1	2:B2:459:ASP:HB2	1.94	0.48
5:BH:190:THR:HG22	5:BH:199:VAL:HG12	1.94	0.48
3:Bj:43:ALA:O	3:Bj:162:TRP:NE1	2.46	0.48
2:Bp:455:LYS:HG3	2:Bp:502:VAL:HG13	1.94	0.48
2:Bq:645:THR:OG1	2:Br:629:ILE:O	2.30	0.48
2:Br:596:LYS:NZ	2:Br:602:TYR:O	2.41	0.48
2:Bt:451:ASP:OD1	2:Bt:452:GLY:N	2.40	0.48
2:Bu:364:ASP:O	2:Bu:367:SER:N	2.43	0.48
2:Bu:617:VAL:HA	2:Bu:620:ARG:HD2	1.95	0.48
2:Bx:235:GLU:OE2	2:Bx:261:ARG:NH1	2.46	0.48
2:Bx:427:VAL:HG13	2:Bx:520:GLU:HG3	1.95	0.48
2:By:240:SER:OG	2:By:243:ASP:OD1	2.31	0.48
2:Bz:163:LEU:HD11	2:Bz:187:ILE:HG12	1.94	0.48
2:Bz:527:GLY:HA2	2:Bz:533:TYR:CD2	2.48	0.48
4:H:62:ILE:HD12	4:S:58:LEU:HD22	1.95	0.48
4:M:36:THR:OG1	4:M:37:GLN:N	2.45	0.48
1:k:74:GLU:OE1	8:r:127:GLU:N	2.46	0.48
9:w:168:LYS:HD2	9:x:85:ILE:HG21	1.94	0.48
2:3:467:TRP:CH2	2:AK:199:GLU:HB2	2.48	0.48
2:3:569:LYS:O	2:3:572:LEU:HB2	2.13	0.48
2:5:569:LYS:O	2:5:572:LEU:HB2	2.13	0.48
5:A0:216:ALA:O	5:A0:218:ASP:N	2.46	0.48
5:A3:184:TYR:OH	5:A3:204:GLU:OE1	2.31	0.48
2:AK:148:ALA:O	2:AK:151:ILE:HG13	2.13	0.48
2:AO:193:ILE:HG21	2:AO:223:VAL:HG11	1.94	0.48
6:AV:426:ASP:OD2	6:AV:433:TYR:OH	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Av:190:THR:HA	5:Av:199:VAL:HA	1.95	0.48
6:Az:304:ARG:NH2	6:Az:308:ASP:OD1	2.46	0.48
2:B1:69:MET:O	2:B1:73:GLN:HG2	2.14	0.48
2:B5:225:LEU:HD22	2:B5:321:GLU:HA	1.94	0.48
7:BL:264:ALA:HB2	7:BL:279:GLY:HA3	1.94	0.48
3:BZ:95:GLN:HG2	3:Bo:64:ARG:NH1	2.28	0.48
3:Bd:114:ARG:HB3	3:Bd:123:VAL:HG13	1.95	0.48
3:Bi:2:PHE:HD2	3:Bn:97:ASN:HB3	1.79	0.48
3:Bl:103:LYS:O	3:Bl:106:GLU:HG2	2.13	0.48
2:Bp:368:VAL:HG12	2:Bp:370:VAL:HG22	1.94	0.48
2:Bs:360:ASP:OD1	2:Bs:392:HIS:NE2	2.39	0.48
2:Bs:495:ASN:OD1	2:Bs:495:ASN:N	2.44	0.48
2:Bv:247:GLY:O	2:Bv:263:SER:OG	2.32	0.48
2:Bx:43:GLN:NE2	2:Bx:77:ASP:OD2	2.46	0.48
4:X:44:MET:HE3	4:h:44:MET:HE3	1.95	0.48
9:v:106:LYS:HG3	9:v:107:THR:HG23	1.94	0.48
2:5:94:PRO:HB2	2:5:219:ILE:HD12	1.95	0.48
2:5:590:GLN:OE1	3:AA:8:ARG:NH2	2.47	0.48
5:A1:64:SER:O	5:A1:183:GLN:NE2	2.31	0.48
5:A3:392:SER:HB2	5:BF:394:THR:HB	1.94	0.48
6:A4:151:ASP:HB3	6:A4:154:PHE:HB2	1.94	0.48
2:AD:514:ARG:NH1	2:AN:366:GLU:OE2	2.46	0.48
2:AD:609:ASP:HB2	2:AD:611:THR:HG22	1.94	0.48
2:AN:642:PHE:CE2	2:B2:564:ILE:HD11	2.48	0.48
2:AO:100:GLU:HB3	2:AO:188:ILE:HD11	1.96	0.48
2:AO:285:ARG:HE	2:AO:322:TYR:HE2	1.61	0.48
2:AO:351:THR:HG23	2:AO:354:ASP:H	1.79	0.48
2:AO:549:ASP:OD2	2:AP:271:TYR:OH	2.26	0.48
10:AU:309:TRP:HB3	10:AU:356:SER:HB3	1.96	0.48
6:Ae:235:LEU:O	6:Ae:245:ASN:ND2	2.46	0.48
6:Ae:340:ILE:HG13	6:Ae:343:ALA:H	1.78	0.48
6:Aj:305:GLU:OE1	6:Aj:477:TYR:OH	2.17	0.48
6:Ap:452:PRO:HA	6:Ap:477:TYR:HA	1.95	0.48
7:Aq:12:LEU:O	7:Aq:16:ILE:HG12	2.13	0.48
7:Aq:180:ASP:OD1	7:Aq:181:LEU:N	2.46	0.48
6:Aw:503:ILE:HA	6:Aw:507:LEU:HB2	1.96	0.48
2:B1:57:PRO:HG3	2:B1:65:PHE:HB3	1.95	0.48
2:B1:135:ASP:HB3	2:B1:139:LYS:HB2	1.94	0.48
2:B2:368:VAL:HG12	2:B2:370:VAL:HG22	1.96	0.48
2:B6:120:TYR:HE1	2:B6:166:ASN:HD22	1.60	0.48
2:B6:157:VAL:HG23	2:B6:159:GLU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:222:VAL:HG11	2:B6:236:ILE:HG21	1.95	0.48
2:B6:549:ASP:OD2	2:Bq:271:TYR:OH	2.27	0.48
5:BB:99:ALA:HB2	5:BB:407:ILE:HD12	1.96	0.48
7:BC:162:TRP:CD1	7:BE:54:ASN:HA	2.49	0.48
5:BF:304:VAL:HG13	7:BL:305:GLY:HA2	1.95	0.48
5:BF:383:ASP:OD1	5:BF:383:ASP:N	2.46	0.48
5:BG:73:ARG:HG3	5:BG:180:ARG:HD2	1.94	0.48
5:BH:129:GLU:OE1	5:BH:429:LYS:NZ	2.37	0.48
7:BL:202:VAL:HG22	4:M:31:ILE:HG12	1.96	0.48
7:BL:204:TYR:CD1	7:BL:226:LEU:HD13	2.48	0.48
3:BY:64:ARG:NH1	3:Bb:95:GLN:HG2	2.24	0.48
3:Be:3:VAL:N	3:Bj:97:ASN:O	2.44	0.48
3:Bf:137:VAL:HB	3:Bf:155:VAL:HG13	1.95	0.48
3:Bh:8:ARG:HA	3:Bh:11:GLU:HG2	1.95	0.48
3:Bh:137:VAL:HB	3:Bh:155:VAL:HG13	1.96	0.48
3:Bm:54:MET:HE2	3:Bn:1:MET:HE2	1.95	0.48
2:Bz:188:ILE:HG22	2:Bz:190:ASP:H	1.78	0.48
4:V:9:PRO:HD3	4:V:57:VAL:HG21	1.96	0.48
4:e:23:SER:OG	4:e:26:LYS:NZ	2.37	0.48
3:o:20:LEU:HA	9:y:54:PHE:HD1	1.77	0.48
8:r:61:SER:OG	8:r:62:GLN:N	2.44	0.48
8:t:62:GLN:HB3	8:t:63:GLU:H	1.48	0.48
9:v:10:ASN:O	9:w:79:GLU:N	2.47	0.48
3:6:161:TYR:CZ	3:7:97:ASN:HB2	2.49	0.48
5:A1:339:ARG:O	5:BB:290:GLY:HA2	2.14	0.48
6:A4:119:SER:O	6:A4:121:THR:N	2.47	0.48
6:A4:400:LEU:HD11	6:A5:417:LEU:HD22	1.95	0.48
7:A6:219:TYR:CE2	7:A1:171:LYS:HD2	2.49	0.48
6:A8:263:SER:HB3	6:A8:476:ARG:HG2	1.95	0.48
6:A8:282:HIS:O	6:A8:282:HIS:ND1	2.45	0.48
8:AB:238:VAL:HB	8:AB:250:THR:HB	1.95	0.48
3:AG:23:VAL:HG11	3:AG:39:THR:HG21	1.95	0.48
2:AK:49:ASP:N	2:AK:49:ASP:OD1	2.47	0.48
6:AX:182:PHE:HB2	6:AX:184:GLU:O	2.14	0.48
6:AX:263:SER:HB3	6:AX:476:ARG:HG2	1.95	0.48
7:AY:59:VAL:HG12	7:AY:183:ILE:HG13	1.96	0.48
6:Af:364:ILE:HD11	6:Af:436:VAL:HG13	1.95	0.48
6:Ah:319:SER:HA	6:Ah:323:LEU:HB2	1.95	0.48
6:Aj:397:ALA:HB1	6:An:393:ILE:HB	1.96	0.48
7:Al:87:ILE:HD13	7:Al:158:ILE:HB	1.94	0.48
6:An:211:GLU:OE2	6:An:215:GLN:NE2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:An:386:LEU:HD13	6:An:417:LEU:HD11	1.95	0.48
6:Ao:242:SER:OG	6:Ao:245:ASN:ND2	2.42	0.48
7:Ar:28:GLU:HB3	1:k:31:VAL:HG12	1.96	0.48
5:Av:389:MET:HE3	5:Ax:395:SER:HB2	1.95	0.48
2:B1:99:ILE:HD13	2:B1:184:LEU:HD22	1.96	0.48
2:B6:166:ASN:OD1	2:B6:166:ASN:N	2.31	0.48
2:B6:278:GLN:HG2	2:B6:296:SER:HB3	1.95	0.48
2:B7:116:ILE:HG21	2:B7:143:ILE:HD12	1.96	0.48
5:BA:317:SER:O	5:BA:319:GLY:N	2.46	0.48
5:BF:220:ARG:HG2	5:BF:221:MET:H	1.78	0.48
5:BF:301:MET:HE2	5:BF:301:MET:HB3	1.81	0.48
5:BF:499:GLU:HG3	5:BF:503:LYS:HE2	1.94	0.48
11:BP:72:ASN:OD1	11:BP:73:GLU:N	2.46	0.48
3:BZ:19:ASN:OD1	3:BZ:19:ASN:N	2.38	0.48
3:Bl:37:LYS:NZ	3:Bl:152:THR:OG1	2.38	0.48
3:Bo:51:VAL:HG23	3:Bo:58:ILE:HG12	1.95	0.48
2:Bp:364:ASP:O	2:Bp:367:SER:N	2.44	0.48
2:Br:31:GLY:O	2:Br:82:ARG:HA	2.14	0.48
2:Bu:453:ASN:HD21	2:Bu:470:LEU:HD22	1.78	0.48
2:Bu:572:LEU:HD12	2:Bu:572:LEU:HA	1.75	0.48
2:Bv:346:SER:O	2:Bv:350:VAL:HG23	2.14	0.48
2:Bw:355:LEU:HD12	2:Bw:389:VAL:HG21	1.96	0.48
1:k:164:ASN:O	1:k:164:ASN:ND2	2.47	0.48
1:m:243:LYS:H	8:s:4:TYR:H	1.60	0.48
1:p:66:VAL:HB	1:p:77:LYS:HB3	1.95	0.48
8:s:203:ASP:OD1	8:s:204:ASP:N	2.47	0.48
9:y:5:LEU:HD23	9:y:5:LEU:H	1.79	0.48
9:z:15:THR:OG1	9:z:16:ASN:N	2.47	0.48
2:1:50:LEU:O	2:1:54:PHE:HB2	2.14	0.48
2:3:638:ILE:HG23	2:AK:623:PHE:HD2	1.78	0.48
5:A1:63:GLY:HA2	6:BK:288:ALA:HB3	1.96	0.48
6:A4:362:VAL:HG21	6:A9:384:ASN:HD21	1.78	0.48
6:A4:494:SER:C	6:A4:496:ILE:H	2.21	0.48
6:A4:521:ILE:O	6:A5:359:LYS:NZ	2.46	0.48
6:A5:137:ALA:HB3	6:A5:140:ALA:HB2	1.95	0.48
3:AA:83:GLN:HA	3:AA:86:VAL:HG22	1.95	0.48
2:AK:33:PHE:O	2:AK:82:ARG:NH2	2.47	0.48
2:AL:211:GLN:O	2:AL:329:ASN:ND2	2.47	0.48
2:AN:247:GLY:HA2	2:AN:266:LYS:HE2	1.94	0.48
2:AN:601:ILE:HG21	2:AN:629:ILE:HB	1.96	0.48
2:AP:424:ASP:OD1	2:AP:516:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AT:362:ILE:HD12	10:AT:367:LEU:HD13	1.94	0.48
6:AX:494:SER:C	6:AX:496:ILE:H	2.22	0.48
6:Ae:148:TYR:HD1	6:Ae:186:GLY:HA2	1.78	0.48
6:Ah:120:PRO:O	6:Ah:121:THR:OG1	2.28	0.48
6:Ah:452:PRO:HA	6:Ah:477:TYR:HA	1.96	0.48
6:Ao:336:ASP:HB3	6:Ao:339:ASP:HB2	1.95	0.48
7:Aq:159:PRO:HB2	7:Aq:172:VAL:HG13	1.96	0.48
7:Aq:267:GLN:NE2	7:Aq:278:ASP:OD1	2.45	0.48
7:Ar:6:PRO:HG3	7:Ar:15:VAL:HG21	1.96	0.48
6:Au:225:ALA:HB3	6:BJ:305:GLU:HA	1.94	0.48
6:Aw:252:PHE:N	6:BI:67:GLU:OE2	2.47	0.48
2:B4:23:SER:O	2:B4:76:ASN:HB2	2.14	0.48
2:B7:273:PRO:HD3	2:B7:280:ALA:HB2	1.95	0.48
5:BA:320:LYS:HD3	5:BA:321:ILE:H	1.79	0.48
7:BC:173:MET:HE1	7:BE:55:LYS:HD2	1.94	0.48
7:BC:305:GLY:HA2	5:BH:304:VAL:HG13	1.96	0.48
5:BF:459:GLU:OE1	5:BF:459:GLU:N	2.44	0.48
6:BM:263:SER:HB3	6:BM:476:ARG:HB3	1.95	0.48
3:Ba:40:ALA:H	3:Ba:69:TRP:HE1	1.60	0.48
3:Bf:146:SER:HB2	3:Bf:149:GLU:HB2	1.96	0.48
3:Bn:90:SER:OG	3:Bn:95:GLN:OE1	2.28	0.48
2:Bp:240:SER:OG	2:Bp:243:ASP:OD1	2.32	0.48
2:Bp:464:VAL:HG12	2:Bq:313:ASP:HB3	1.95	0.48
2:Bq:653:GLU:HB2	2:Bt:16:GLN:HG3	1.95	0.48
2:Br:566:ARG:HA	2:Br:569:LYS:HE2	1.96	0.48
2:Bt:252:LEU:HB3	2:Bt:336:GLY:HA2	1.96	0.48
2:Bu:102:THR:N	2:Bu:183:THR:O	2.47	0.48
2:Bu:195:LEU:H	2:Bu:195:LEU:HD23	1.78	0.48
2:Bw:33:PHE:O	2:Bw:82:ARG:NE	2.47	0.48
2:Bx:106:PRO:HB2	2:Bx:139:LYS:HZ2	1.78	0.48
2:Bz:39:PHE:HE1	2:Bz:84:VAL:H	1.62	0.48
2:1:455:LYS:HE3	2:1:502:VAL:HG22	1.96	0.48
2:1:633:ARG:HD3	2:AO:619:ASP:HA	1.95	0.48
2:3:398:ASP:O	2:3:401:GLN:HG3	2.14	0.48
2:4:41:ILE:HD11	2:4:361:PHE:HB3	1.96	0.48
2:4:117:THR:HG23	2:4:127:THR:HG22	1.94	0.48
2:5:92:SER:HB3	2:5:340:LEU:HB3	1.96	0.48
3:7:17:ARG:HH22	9:v:47:THR:HG21	1.78	0.48
5:A1:469:MET:HE1	5:BD:460:ALA:HB1	1.95	0.48
5:A2:82:LEU:HD11	5:A2:261:ALA:HB3	1.96	0.48
3:AJ:54:MET:H	3:AJ:54:MET:HG2	1.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:40:GLN:H	2:AP:81:VAL:HG23	1.79	0.48
7:AY:43:GLU:O	7:AY:47:GLU:HG2	2.13	0.48
7:AY:144:LEU:O	7:AY:148:MET:HG2	2.14	0.48
6:Ad:264:ARG:NE	6:Ah:155:SER:OG	2.45	0.48
6:Ae:265:GLN:HB3	6:Ai:247:TRP:CZ3	2.49	0.48
6:Af:343:ALA:HB1	6:Af:348:GLU:HB2	1.95	0.48
6:Ak:184:GLU:O	6:Ak:185:THR:OG1	2.28	0.48
6:Au:72:HIS:C	6:Au:74:TYR:H	2.22	0.48
6:Aw:204:ASP:OD1	6:Aw:205:ALA:N	2.47	0.48
2:B1:29:LEU:O	2:B1:80:VAL:HA	2.13	0.48
2:B2:163:LEU:HD11	2:B2:187:ILE:HG12	1.95	0.48
2:B4:33:PHE:HA	2:B4:61:THR:HG23	1.96	0.48
2:B4:46:ASN:OD1	2:B4:47:GLU:N	2.47	0.48
2:B5:495:ASN:OD1	2:B5:495:ASN:N	2.46	0.48
5:BB:190:THR:HG22	5:BB:199:VAL:HG12	1.95	0.48
7:BC:94:SER:OG	7:BC:97:SER:O	2.24	0.48
7:BC:148:MET:HB3	7:BE:107:PHE:CE1	2.49	0.48
5:BF:82:LEU:HD11	5:BF:261:ALA:HB3	1.96	0.48
5:BF:129:GLU:OE1	5:BF:425:ASN:ND2	2.47	0.48
2:Br:159:GLU:HB3	2:Br:163:LEU:HA	1.96	0.48
2:Br:419:VAL:HG13	2:Br:507:ILE:HB	1.96	0.48
2:Bt:32:LYS:NZ	2:Bt:60:GLU:OE2	2.35	0.48
2:Bu:99:ILE:O	2:Bu:100:GLU:HG3	2.13	0.48
2:Bv:641:ASN:HB2	2:Bw:626:THR:HG22	1.95	0.48
2:By:645:THR:OG1	2:Bz:629:ILE:O	2.23	0.48
4:L:53:ARG:NH2	4:L:56:GLU:OE1	2.44	0.48
4:d:41:GLU:N	4:d:41:GLU:OE1	2.47	0.48
1:l:156:ASP:HB3	1:l:157:PRO:HD3	1.96	0.48
8:r:203:ASP:OD1	8:r:204:ASP:N	2.45	0.48
2:5:514:ARG:NH1	2:AM:366:GLU:OE2	2.46	0.48
2:5:592:LEU:HD23	2:5:604:TYR:HB2	1.95	0.48
3:7:75:ASN:HB3	3:7:151:GLN:HG3	1.95	0.48
4:A:44:MET:HE3	4:Q:44:MET:HE3	1.96	0.48
6:A4:108:ALA:HB1	6:A4:109:PHE:CD2	2.49	0.48
6:A5:127:LEU:HD13	6:A5:254:ILE:HG12	1.96	0.48
9:AC:57:GLY:HA2	9:v:66:PHE:H	1.79	0.48
3:AF:75:ASN:OD1	3:AF:79:HIS:HA	2.14	0.48
3:AI:58:ILE:HD13	3:AI:58:ILE:H	1.79	0.48
3:AI:132:LEU:HD12	3:AI:159:LEU:HB3	1.96	0.48
2:AK:29:LEU:O	2:AK:80:VAL:HA	2.14	0.48
2:AK:153:LYS:O	2:AK:157:VAL:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:299:ARG:H	2:AL:299:ARG:HD2	1.78	0.48
2:AO:406:LEU:HD13	2:AO:475:ALA:HB2	1.94	0.48
6:AZ:136:VAL:HG13	6:AZ:253:ARG:HH11	1.78	0.48
7:Ab:232:GLY:O	4:i:37:GLN:NE2	2.46	0.48
6:Ac:128:ARG:NH1	6:Ac:490:GLN:O	2.47	0.48
6:Af:383:VAL:HG12	6:Af:406:THR:HG22	1.96	0.48
6:Ag:345:TRP:NE1	6:Ak:348:GLU:HB2	2.29	0.48
6:Ao:345:TRP:NE1	6:BM:348:GLU:HB3	2.29	0.48
6:Ap:490:GLN:OE1	6:Ap:490:GLN:N	2.47	0.48
7:Aq:86:ARG:HH22	5:BD:312:VAL:HG23	1.79	0.48
7:At:18:ARG:HA	7:At:22:ALA:HA	1.95	0.48
6:Au:278:LEU:HD12	6:Au:286:ALA:HB2	1.96	0.48
6:Aw:367:GLN:HB3	6:Aw:511:ALA:HB1	1.96	0.48
6:Az:285:ASP:HB3	6:Az:287:ASP:OD1	2.14	0.48
6:BI:105:ASN:HB2	6:BI:412:VAL:HG13	1.95	0.48
3:Be:89:GLN:NE2	3:Be:135:THR:O	2.47	0.48
3:Bf:48:LYS:NZ	3:Bi:68:ASP:OD1	2.45	0.48
3:Bo:106:GLU:O	3:Bo:109:LYS:NZ	2.47	0.48
2:Bp:110:TYR:CD1	2:Bp:177:GLY:HA3	2.49	0.48
2:Bq:655:THR:HB	2:Bt:19:VAL:HG21	1.96	0.48
2:Bs:206:THR:HA	2:Bs:211:GLN:HE21	1.79	0.48
2:Bx:332:GLU:OE1	2:Bx:332:GLU:N	2.35	0.48
9:y:11:GLN:HA	9:z:78:ASP:HA	1.96	0.48
2:1:590:GLN:NE2	3:6:8:ARG:HH22	2.12	0.47
5:A1:41:ARG:NH1	5:A1:67:PRO:HG2	2.28	0.47
5:A3:291:ASN:OD1	7:A6:299:LEU:HD13	2.14	0.47
6:A4:131:TYR:HD2	6:A4:250:MET:HE3	1.79	0.47
7:A6:30:THR:C	7:A6:32:ASP:H	2.22	0.47
6:A7:131:TYR:HE1	6:A7:141:LYS:HB2	1.78	0.47
6:A7:232:ILE:O	6:A7:236:GLN:HG2	2.14	0.47
8:AB:6:TYR:CD1	8:q:132:GLN:HG2	2.48	0.47
8:AB:13:TYR:CG	8:AB:116:MET:HE1	2.48	0.47
8:AB:78:HIS:NE2	8:q:174:GLU:OE1	2.38	0.47
3:AJ:54:MET:HE3	3:BX:20:LEU:HA	1.96	0.47
3:AJ:97:ASN:HB3	3:Bg:2:PHE:HB3	1.96	0.47
2:AP:101:TYR:O	2:AP:216:LYS:NZ	2.40	0.47
2:AP:514:ARG:NH2	2:Bp:364:ASP:OD1	2.41	0.47
10:AT:374:THR:OG1	10:AT:375:TYR:N	2.47	0.47
6:AX:176:ASP:OD1	6:AX:177:ILE:N	2.45	0.47
6:Ag:385:VAL:O	6:Ag:389:VAL:HG22	2.14	0.47
6:Ap:390:ASP:H	6:Ap:397:ALA:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Au:270:TYR:CZ	6:Au:287:ASP:HB3	2.49	0.47
5:Av:312:VAL:HG13	5:Av:321:ILE:HG23	1.96	0.47
6:Aw:180:HIS:NE2	6:Aw:209:ASP:OD1	2.41	0.47
6:Az:254:ILE:O	6:Az:495:ARG:NH2	2.47	0.47
2:B1:41:ILE:HD13	2:B1:81:VAL:HB	1.96	0.47
2:B5:242:ALA:O	2:B5:246:LYS:NZ	2.46	0.47
2:B5:642:PHE:CZ	2:B6:564:ILE:HD11	2.49	0.47
2:B6:430:ARG:HH21	2:B6:541:ALA:HB1	1.78	0.47
5:BA:132:ASP:O	5:BA:136:HIS:ND1	2.43	0.47
7:BE:12:LEU:HD21	7:BE:248:LYS:HG2	1.96	0.47
5:BH:350:LEU:HD12	5:BH:351:PRO:HD2	1.96	0.47
7:BL:161:PHE:HA	7:BL:171:LYS:O	2.14	0.47
3:BZ:47:GLU:N	3:BZ:63:ASP:O	2.45	0.47
3:Bl:41:LEU:HD11	3:Bl:127:ILE:HG21	1.96	0.47
2:Bq:252:LEU:HB3	2:Bq:335:SER:O	2.14	0.47
2:Bq:409:PRO:O	2:Bq:454:TYR:OH	2.25	0.47
2:Br:118:VAL:HG22	2:Br:169:ALA:HB2	1.95	0.47
2:Br:135:ASP:OD1	2:Br:136:ALA:N	2.47	0.47
2:Bu:355:LEU:HD12	2:Bu:389:VAL:HG21	1.95	0.47
2:Bu:488:TRP:HE1	2:Bu:489:MET:HE2	1.78	0.47
2:Bv:224:ALA:HB2	2:Bv:340:LEU:HD13	1.95	0.47
2:By:66:MET:HG2	2:By:468:VAL:HG21	1.96	0.47
4:V:10:PHE:HB3	4:V:22:ILE:HG12	1.95	0.47
1:n:86:PHE:CE2	1:n:88:ALA:HB2	2.49	0.47
1:p:164:ASN:O	1:p:164:ASN:ND2	2.47	0.47
8:r:134:VAL:HG21	8:r:188:TRP:CE3	2.49	0.47
2:2:432:ALA:HB2	2:2:440:ASN:ND2	2.28	0.47
2:5:272:GLY:O	2:5:274:GLN:NE2	2.45	0.47
5:A0:291:ASN:OD1	7:BE:299:LEU:HD13	2.14	0.47
5:A0:423:LYS:HG3	5:A0:437:TRP:CD1	2.49	0.47
5:A2:12:TRP:CG	5:A2:234:ALA:HB2	2.49	0.47
6:A4:147:MET:HE3	6:A4:366:ARG:HH12	1.79	0.47
7:A6:18:ARG:HA	7:A6:22:ALA:HA	1.97	0.47
6:A9:414:ALA:HB3	6:A9:423:VAL:HG13	1.96	0.47
8:AB:216:PHE:CE1	2:AD:561:LYS:HG2	2.49	0.47
2:AD:455:LYS:HD2	2:AD:502:VAL:HG22	1.96	0.47
3:AF:97:ASN:HA	3:Bm:3:VAL:HG12	1.97	0.47
3:AJ:23:VAL:HG22	3:AJ:36:CYS:SG	2.54	0.47
2:AL:456:TYR:HB3	2:AL:504:LYS:HB3	1.95	0.47
2:AN:264:THR:HB	2:AN:267:ALA:HB3	1.96	0.47
2:AO:116:ILE:HD11	2:AO:131:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:37:PRO:HG2	2:AP:42:LYS:HD3	1.96	0.47
6:AX:278:LEU:HD12	6:AX:284:MET:HB2	1.95	0.47
7:Aa:305:GLY:HA2	5:BB:304:VAL:HG13	1.95	0.47
7:Ab:159:PRO:HB3	7:Ab:174:GLY:O	2.14	0.47
6:Ae:355:PHE:HB2	6:Ay:398:GLN:HE22	1.79	0.47
6:An:93:PRO:HG3	7:Aq:98:MET:HE2	1.96	0.47
6:Ap:278:LEU:HD12	6:Ap:284:MET:HB2	1.96	0.47
7:Ar:88:LEU:HD11	7:Ar:185:GLU:HB2	1.95	0.47
5:Av:38:ASP:OD2	5:Av:186:ARG:NH2	2.47	0.47
6:Aw:142:GLU:H	6:Aw:490:GLN:HG2	1.79	0.47
2:B4:654:LEU:HD22	2:B4:655:THR:H	1.78	0.47
2:B6:33:PHE:HA	2:B6:61:THR:HG23	1.96	0.47
2:B7:101:TYR:CE2	2:B7:143:ILE:HG12	2.49	0.47
2:B7:308:ASN:ND2	2:B7:313:ASP:OD2	2.48	0.47
2:B7:455:LYS:HD3	2:B7:502:VAL:HG13	1.95	0.47
5:BA:182:VAL:HG22	5:BA:208:TYR:HD1	1.78	0.47
5:BD:213:GLU:HA	5:BD:221:MET:HE1	1.96	0.47
6:BI:120:PRO:HD3	6:BI:453:TYR:CZ	2.49	0.47
6:BJ:180:HIS:CE1	6:BJ:212:ILE:HD12	2.49	0.47
3:BZ:114:ARG:HG2	3:BZ:126:GLU:HG2	1.96	0.47
3:Ba:83:GLN:NE2	3:Ba:87:ASP:OD1	2.47	0.47
3:Bf:103:LYS:N	3:Bf:106:GLU:OE2	2.46	0.47
2:Bp:332:GLU:H	2:Bp:332:GLU:CD	2.22	0.47
2:Bq:42:LYS:NZ	2:Bq:43:GLN:O	2.47	0.47
2:Bv:3:LEU:HG	2:Bv:9:GLU:HB2	1.97	0.47
2:Bv:256:PRO:HG2	2:Bv:339:THR:H	1.79	0.47
2:Bz:89:ALA:HA	2:Bz:345:SER:HA	1.95	0.47
8:t:61:SER:O	8:t:62:GLN:HB2	2.13	0.47
9:v:168:LYS:HB3	9:v:173:ILE:HD11	1.95	0.47
1:0:63:ARG:HH12	8:q:125:ARG:HH22	1.62	0.47
2:4:451:ASP:HB2	2:4:471:ALA:HB2	1.96	0.47
2:5:28:ALA:HB2	2:5:370:VAL:HG21	1.95	0.47
3:6:83:GLN:HA	3:6:86:VAL:HG22	1.95	0.47
5:A2:370:TYR:HD2	5:A2:375:VAL:HB	1.78	0.47
6:A5:131:TYR:HD2	6:A5:250:MET:HE3	1.79	0.47
6:A9:345:TRP:CD1	6:A9:345:TRP:H	2.32	0.47
3:AA:86:VAL:HG12	3:AA:137:VAL:HG21	1.96	0.47
8:AB:84:TYR:CZ	8:q:143:PRO:HD3	2.49	0.47
2:AD:559:MET:O	2:AD:563:ASN:ND2	2.47	0.47
3:AI:54:MET:HE1	3:Bm:22:GLN:HG3	1.96	0.47
3:AI:94:GLY:HA3	3:AI:100:THR:OG1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:110:TYR:CD1	2:AK:177:GLY:HA3	2.50	0.47
2:AM:353:GLY:HA2	2:AM:356:MET:HE2	1.96	0.47
2:AO:109:ASN:N	2:AO:138:GLY:HA3	2.30	0.47
6:AW:317:GLY:HA3	6:AW:516:VAL:HG22	1.95	0.47
6:AW:502:SER:O	6:AW:506:SER:OG	2.32	0.47
6:Ae:247:TRP:CG	6:Ay:267:LYS:HD3	2.50	0.47
7:Ar:193:ASP:O	7:Ar:242:TYR:OH	2.33	0.47
7:Ar:307:LEU:HB2	5:Ax:335:TRP:HB2	1.95	0.47
7:At:159:PRO:HB3	7:At:174:GLY:O	2.15	0.47
6:Aw:260:GLU:OE2	6:BM:72:HIS:ND1	2.46	0.47
6:Aw:344:ARG:HH21	6:BM:345:TRP:CD1	2.32	0.47
2:B5:57:PRO:O	2:B5:462:ASN:ND2	2.43	0.47
2:B6:2:THR:OG1	2:B6:3:LEU:N	2.47	0.47
2:B6:651:PHE:HE2	2:B7:630:GLN:HB2	1.80	0.47
7:BC:85:THR:HG21	7:BC:187:TRP:HE1	1.78	0.47
7:BC:147:TYR:OH	5:BG:269:ASP:OD2	2.32	0.47
7:BC:200:ASN:OD1	7:BC:229:ARG:NH2	2.46	0.47
5:BF:310:ASN:ND2	5:BF:323:ASN:HD21	2.12	0.47
3:BX:64:ARG:NH1	3:Ba:95:GLN:HB3	2.30	0.47
3:Bc:95:GLN:OE1	3:Bc:95:GLN:N	2.47	0.47
3:Be:125:LYS:NZ	3:Bh:83:GLN:OE1	2.45	0.47
3:Bl:119:ASP:OD1	3:Bn:101:GLY:N	2.47	0.47
3:Bo:14:ASP:OD1	3:Bo:14:ASP:N	2.46	0.47
2:By:470:LEU:HD11	2:By:499:ILE:HG21	1.96	0.47
2:Bz:24:THR:O	2:Bz:483:ASN:ND2	2.42	0.47
8:t:99:GLN:HB3	8:t:243:ASP:HB3	1.95	0.47
2:1:398:ASP:O	2:1:401:GLN:HG2	2.14	0.47
2:4:569:LYS:O	2:4:572:LEU:HB2	2.15	0.47
5:A0:426:LEU:HD13	5:A0:432:ILE:HD12	1.96	0.47
5:A2:99:ALA:O	5:A2:411:GLN:NE2	2.48	0.47
5:A2:221:MET:HE1	5:BD:190:THR:HG21	1.96	0.47
5:A3:105:ASP:N	5:A3:105:ASP:OD1	2.47	0.47
6:A8:452:PRO:HA	6:A8:477:TYR:HA	1.95	0.47
6:A9:467:PHE:CD2	6:An:459:LEU:HB3	2.50	0.47
8:AB:264:PRO:O	2:AD:620:ARG:NH2	2.47	0.47
3:AE:70:THR:HG22	3:AE:156:THR:HG22	1.94	0.47
2:AL:414:VAL:HG23	2:AL:422:ALA:HB1	1.96	0.47
2:AN:430:ARG:HH21	2:AN:442:ASN:HA	1.78	0.47
6:AZ:131:TYR:HA	6:AZ:250:MET:HA	1.96	0.47
7:Aa:55:LYS:HE2	7:As:173:MET:HE1	1.96	0.47
6:Ac:322:THR:HG21	6:Ac:363:GLU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:107:ILE:C	6:Ah:303:ASN:HD21	2.22	0.47
6:Ah:383:VAL:HG12	6:Ah:406:THR:HG22	1.96	0.47
7:Al:13:LYS:HG3	7:Al:34:ILE:HG21	1.95	0.47
6:An:344:ARG:HE	6:BK:344:ARG:NH1	2.12	0.47
6:Ao:490:GLN:OE1	6:Ao:490:GLN:N	2.47	0.47
7:Aq:173:MET:HE1	7:As:55:LYS:HE2	1.96	0.47
7:At:75:ASP:OD1	7:At:75:ASP:N	2.45	0.47
7:At:91:ASN:H	5:BA:316:ALA:HB2	1.79	0.47
2:B2:89:ALA:HA	2:B2:345:SER:HA	1.96	0.47
2:B2:518:TYR:HE1	2:B2:537:GLY:HA3	1.79	0.47
2:B2:523:ASN:OD1	2:B2:539:LYS:N	2.40	0.47
2:B3:244:TYR:CZ	2:B3:266:LYS:HG2	2.49	0.47
2:B3:271:TYR:OH	2:Bz:549:ASP:OD2	2.21	0.47
2:B5:57:PRO:HB3	2:B5:62:ALA:HA	1.95	0.47
2:B7:69:MET:O	2:B7:73:GLN:HG2	2.14	0.47
5:BD:72:THR:OG1	5:BD:155:ARG:NH2	2.42	0.47
7:BE:173:MET:HB3	5:BG:321:ILE:HD13	1.97	0.47
5:BF:182:VAL:HG22	5:BF:208:TYR:HD1	1.78	0.47
5:BG:94:GLU:OE2	5:BG:379:ARG:NE	2.46	0.47
6:BI:157:GLN:N	6:BI:227:GLY:O	2.47	0.47
3:BY:19:ASN:OD1	3:BY:19:ASN:N	2.37	0.47
3:BZ:100:THR:OG1	3:BZ:101:GLY:N	2.47	0.47
3:Bc:64:ARG:NH2	3:Bf:93:ALA:HB3	2.29	0.47
3:Bd:70:THR:HG22	3:Bd:156:THR:HG22	1.95	0.47
2:Bp:37:PRO:HG3	2:Bp:226:TYR:CZ	2.49	0.47
2:Bq:549:ASP:OD2	2:Bt:271:TYR:OH	2.21	0.47
2:Bz:131:ILE:HG12	2:Bz:143:ILE:HG22	1.96	0.47
1:k:40:GLN:NE2	1:k:161:LEU:O	2.47	0.47
8:s:92:ILE:HD12	8:t:142:GLN:HG3	1.95	0.47
2:1:252:LEU:HB3	2:1:336:GLY:HA2	1.96	0.47
2:2:36:GLY:O	2:2:82:ARG:NH1	2.38	0.47
2:4:639:THR:HB	2:AL:624:VAL:HG12	1.95	0.47
2:5:561:LYS:HG2	8:u:216:PHE:CE1	2.50	0.47
3:8:148:ASN:OD1	3:8:148:ASN:N	2.47	0.47
3:9:115:GLN:HG2	3:AA:79:HIS:CE1	2.50	0.47
5:A1:419:LEU:HD13	5:A1:441:ILE:HD11	1.96	0.47
5:A3:26:GLU:HG2	5:A3:28:LEU:HG	1.97	0.47
6:A5:286:ALA:N	6:A5:289:GLU:OE1	2.47	0.47
6:A7:264:ARG:NH1	6:A7:477:TYR:HH	2.12	0.47
6:A7:344:ARG:HG3	10:AU:306:TRP:HZ2	1.78	0.47
6:A8:374:ASN:ND2	6:A8:439:LYS:O	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:572:LEU:HD12	2:AD:572:LEU:HA	1.75	0.47
2:AL:406:LEU:HD13	2:AL:475:ALA:HB2	1.96	0.47
2:AP:457:GLN:HA	2:AP:503:ILE:HG23	1.96	0.47
6:AV:225:ALA:HB3	6:Ap:305:GLU:HA	1.95	0.47
6:AV:402:THR:HG22	6:AZ:420:LYS:HD2	1.96	0.47
6:AZ:449:TYR:CZ	6:AZ:482:ASN:HB2	2.49	0.47
6:Af:93:PRO:HA	6:Aj:121:THR:O	2.15	0.47
6:Ah:377:ILE:HG23	6:Ah:435:THR:HB	1.97	0.47
6:Aj:273:GLU:OE1	6:Aj:273:GLU:N	2.48	0.47
6:Ak:319:SER:HA	6:Ak:323:LEU:HB2	1.96	0.47
7:Aq:12:LEU:HD12	7:Aq:242:TYR:HD2	1.79	0.47
5:Av:86:TYR:C	5:Av:88:VAL:H	2.23	0.47
5:Ax:145:ASP:OD2	5:BA:413:LYS:NZ	2.36	0.47
2:B1:153:LYS:HB3	2:B1:167:TRP:HH2	1.80	0.47
2:B2:642:PHE:CZ	2:B3:561:LYS:HG2	2.49	0.47
2:B3:193:ILE:HD11	2:B3:205:MET:HG2	1.97	0.47
2:B3:438:ASP:OD1	2:B3:438:ASP:N	2.45	0.47
2:B4:346:SER:O	2:B4:350:VAL:HG23	2.15	0.47
5:BB:254:LEU:O	5:BB:258:VAL:HG23	2.14	0.47
5:BG:494:THR:OG1	5:BG:495:ASP:N	2.48	0.47
6:BI:345:TRP:CD1	6:BI:346:ALA:H	2.31	0.47
6:BK:241:GLY:HA3	11:BP:43:GLY:HA2	1.96	0.47
3:Bc:103:LYS:O	3:Bc:106:GLU:HG2	2.14	0.47
3:Bg:39:THR:HG22	3:Bg:71:VAL:HG22	1.97	0.47
3:Bl:41:LEU:HB3	3:Bo:140:LEU:HB3	1.95	0.47
2:Bs:107:GLY:H	2:Bs:140:ILE:HG12	1.79	0.47
2:Bw:91:ASN:N	2:Bw:91:ASN:OD1	2.47	0.47
2:Bw:539:LYS:HG3	2:Bw:541:ALA:H	1.78	0.47
1:l:201:LEU:HB3	1:l:205:ARG:HH21	1.79	0.47
8:t:152:GLN:HE21	8:t:152:GLN:HB3	1.56	0.47
2:1:57:PRO:HG3	2:1:65:PHE:CD1	2.50	0.47
2:3:57:PRO:HG3	2:3:65:PHE:CD2	2.50	0.47
3:9:74:MET:HA	3:9:152:THR:HG22	1.96	0.47
5:A1:91:ALA:HB1	5:A1:375:VAL:HG21	1.96	0.47
5:A1:215:TYR:HD2	5:A1:221:MET:HE1	1.78	0.47
5:A2:69:MET:C	5:A2:71:THR:H	2.23	0.47
7:A6:129:TYR:HD1	7:Al:105:PRO:HG2	1.79	0.47
3:AA:75:ASN:ND2	3:AA:151:GLN:OE1	2.48	0.47
2:AD:417:ILE:HB	2:AD:421:ARG:HB3	1.97	0.47
2:AN:364:ASP:O	2:AN:367:SER:N	2.48	0.47
10:AQ:314:GLU:O	10:AQ:318:MET:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AW:319:SER:HA	6:AW:323:LEU:HB2	1.96	0.47
6:AX:377:ILE:HG23	6:AX:435:THR:HB	1.96	0.47
6:Ad:131:TYR:HD2	6:Ad:250:MET:HE3	1.80	0.47
6:Ag:456:LEU:HA	6:Ag:475:THR:HG22	1.97	0.47
6:Ak:327:SER:OG	6:Ak:328:LYS:N	2.47	0.47
7:Al:25:ILE:HD12	7:BE:265:ARG:HG2	1.96	0.47
6:An:264:ARG:NH1	6:An:477:TYR:OH	2.48	0.47
6:Ao:176:ASP:OD1	6:Ao:177:ILE:N	2.47	0.47
6:Ap:120:PRO:HD3	6:Ap:453:TYR:CZ	2.50	0.47
7:As:30:THR:C	7:As:32:ASP:H	2.22	0.47
6:Aw:105:ASN:HB2	6:Aw:412:VAL:HG13	1.96	0.47
6:Aw:490:GLN:OE1	6:Aw:490:GLN:N	2.47	0.47
2:B1:252:LEU:HD21	2:B1:263:SER:HB3	1.97	0.47
2:B1:550:ARG:HB3	2:B1:553:VAL:HG12	1.97	0.47
2:B1:624:VAL:HG12	2:Bz:639:THR:HB	1.97	0.47
6:BJ:153:MET:HE1	6:BJ:226:GLU:HG2	1.97	0.47
6:BK:84:THR:OG1	6:BK:88:VAL:O	2.32	0.47
6:BM:481:ILE:HD13	6:BM:506:SER:HB3	1.95	0.47
11:BT:38:VAL:HG11	11:BT:69:ILE:HG12	1.96	0.47
3:Ba:7:THR:HG22	2:Bv:598:LEU:HD21	1.95	0.47
3:Bi:136:ASN:O	3:Bi:136:ASN:ND2	2.46	0.47
3:Bl:129:ILE:HG21	3:Bl:159:LEU:HD22	1.95	0.47
3:Bm:4:ASP:OD1	3:Bm:4:ASP:N	2.42	0.47
2:Br:110:TYR:CD1	2:Br:177:GLY:HA3	2.50	0.47
2:Br:609:ASP:N	2:Br:609:ASP:OD1	2.48	0.47
2:Bt:32:LYS:HD2	2:Bt:355:LEU:HD21	1.96	0.47
2:Bt:44:VAL:HG11	2:Bt:50:LEU:HB2	1.96	0.47
2:Bz:116:ILE:HD13	2:Bz:171:ILE:HA	1.96	0.47
4:I:62:ILE:HD12	4:T:58:LEU:HD22	1.96	0.47
4:a:44:MET:HE3	4:f:44:MET:HE3	1.97	0.47
1:0:3:THR:HG21	1:p:122:LEU:HA	1.96	0.47
1:0:27:LEU:HG	1:p:57:GLU:HG3	1.96	0.47
1:0:50:SER:OG	7:Ar:269:MET:SD	2.72	0.47
2:1:63:ASP:OD2	2:1:379:ALA:HB3	2.14	0.47
2:2:61:THR:O	2:2:63:ASP:N	2.48	0.47
2:2:634:SER:HB2	2:AP:574:GLU:N	2.30	0.47
2:3:561:LYS:HD3	8:s:231:GLU:HG2	1.96	0.47
2:3:623:PHE:HB3	8:s:212:THR:HG22	1.97	0.47
2:4:398:ASP:O	2:4:401:GLN:HG2	2.14	0.47
2:4:447:TYR:OH	8:t:231:GLU:OE2	2.32	0.47
2:5:228:GLY:HA2	2:5:345:SER:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5:256:PRO:HG2	2:5:339:THR:H	1.79	0.47
2:5:389:VAL:O	2:5:393:VAL:HG23	2.13	0.47
3:6:54:MET:C	3:6:56:ARG:H	2.22	0.47
3:9:70:THR:HG22	3:9:156:THR:HG22	1.97	0.47
4:A:23:SER:HB3	4:A:46:ARG:HD2	1.95	0.47
5:A1:456:GLU:OE2	5:BB:492:GLN:NE2	2.48	0.47
5:A2:166:ARG:H	5:A2:166:ARG:HG3	1.35	0.47
5:A3:134:LEU:O	5:A3:137:LEU:C	2.57	0.47
5:A3:321:ILE:HG22	7:A1:173:MET:HB3	1.97	0.47
6:A4:254:ILE:HD12	6:A4:254:ILE:HA	1.76	0.47
6:A5:258:VAL:O	6:A5:499:GLY:N	2.41	0.47
6:A7:363:GLU:OE2	6:A7:367:GLN:NE2	2.45	0.47
3:AA:48:LYS:NZ	3:o:68:ASP:OD1	2.45	0.47
2:AD:641:ASN:HB2	2:AN:626:THR:HG22	1.95	0.47
3:AE:23:VAL:HG22	3:AE:36:CYS:SG	2.54	0.47
3:AF:37:LYS:HE3	3:AF:74:MET:HE2	1.97	0.47
3:AG:30:GLN:O	3:AG:30:GLN:NE2	2.46	0.47
2:AL:35:TRP:HH2	2:AL:224:ALA:HB1	1.78	0.47
2:AM:131:ILE:HD13	2:AM:140:ILE:HG21	1.97	0.47
2:AM:644:ALA:HA	2:By:557:PHE:CZ	2.50	0.47
2:AO:641:ASN:HB2	2:B5:626:THR:HG22	1.96	0.47
2:AP:37:PRO:HG3	2:AP:226:TYR:CZ	2.49	0.47
6:AV:76:ALA:HA	6:AZ:258:VAL:HG21	1.95	0.47
7:Aa:30:THR:HG22	7:Aa:33:GLN:NE2	2.29	0.47
7:Ab:95:ILE:HD12	7:Ab:96:THR:HG23	1.97	0.47
6:Ac:237:GLU:N	6:Ac:245:ASN:O	2.40	0.47
6:Ag:184:GLU:HB2	6:Ag:366:ARG:HH22	1.80	0.47
6:Ah:351:LYS:NZ	6:Ah:394:SER:O	2.48	0.47
6:Aj:120:PRO:HD3	6:Aj:453:TYR:CZ	2.50	0.47
7:Al:81:VAL:HA	7:Al:188:THR:HA	1.97	0.47
7:Ar:34:ILE:O	7:Ar:38:ILE:HG12	2.14	0.47
7:Ar:109:ASP:HB2	6:Au:476:ARG:HH12	1.80	0.47
7:At:231:VAL:HB	4:H:31:ILE:HD11	1.97	0.47
6:Au:228:MET:HG2	6:BJ:263:SER:O	2.14	0.47
2:B2:131:ILE:HD13	2:B2:140:ILE:HG21	1.96	0.47
2:B2:484:VAL:HG13	2:B2:485:SER:H	1.80	0.47
2:B3:115:LYS:NZ	2:B3:127:THR:O	2.47	0.47
2:B3:391:LYS:HG2	2:B3:443:ILE:HD13	1.96	0.47
2:B5:41:ILE:HD13	2:B5:81:VAL:HB	1.96	0.47
2:B5:505:LEU:HD21	2:B5:525:VAL:HB	1.96	0.47
2:B6:284:ARG:HG2	2:B6:289:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:642:PHE:HE1	2:Br:10:LEU:HD22	1.80	0.47
5:BG:125:MET:O	5:BG:129:GLU:HG2	2.15	0.47
5:BH:115:LYS:HD3	5:BH:445:LYS:HE2	1.96	0.47
3:BY:147:ASN:ND2	3:Bm:63:ASP:OD2	2.41	0.47
3:Bb:97:ASN:HA	3:Bo:3:VAL:HG12	1.95	0.47
3:Bc:83:GLN:NE2	3:Bc:87:ASP:OD1	2.47	0.47
3:Bg:75:ASN:ND2	3:Bg:151:GLN:OE1	2.41	0.47
3:Bg:82:ARG:NH1	3:Bg:138:GLY:HA2	2.29	0.47
3:Bh:94:GLY:HA3	3:Bh:100:THR:OG1	2.15	0.47
3:Bi:23:VAL:HG12	3:Bi:113:VAL:HB	1.97	0.47
3:Bk:136:ASN:O	3:Bk:136:ASN:ND2	2.45	0.47
3:Bo:38:ALA:N	3:Bo:72:THR:OG1	2.47	0.47
2:Bp:639:THR:HB	2:Bq:624:VAL:HG12	1.96	0.47
2:Bq:163:LEU:HD12	2:Bq:186:LYS:HA	1.95	0.47
2:Br:45:THR:HA	2:Br:76:ASN:O	2.14	0.47
2:Br:47:GLU:OE2	2:Br:461:TYR:OH	2.25	0.47
2:Br:57:PRO:HA	2:Br:61:THR:HB	1.97	0.47
2:Br:151:ILE:O	2:Br:155:LYS:HG2	2.15	0.47
2:Bt:95:ILE:HG12	2:Bt:219:ILE:HD11	1.97	0.47
2:Bt:209:ASP:OD1	2:Bt:209:ASP:N	2.46	0.47
2:Bt:299:ARG:HD2	2:Bt:299:ARG:H	1.79	0.47
2:Bw:252:LEU:HD22	2:Bw:335:SER:HB3	1.95	0.47
2:Bw:546:SER:HA	2:Bz:304:ILE:HG21	1.97	0.47
2:Bz:57:PRO:HG3	2:Bz:65:PHE:CD1	2.50	0.47
4:e:52:LEU:HD21	4:j:12:ASP:HB2	1.95	0.47
4:h:5:LEU:HD11	4:h:65:LEU:HD21	1.96	0.47
1:l:146:LEU:HD13	1:l:174:PHE:HD2	1.79	0.47
1:l:198:GLU:O	1:l:205:ARG:NH2	2.48	0.47
8:r:28:ARG:NH2	8:r:129:ASP:OD2	2.48	0.47
8:t:91:ASN:O	8:t:110:ASN:ND2	2.46	0.47
9:v:97:TYR:HB3	9:z:56:LEU:O	2.14	0.47
9:z:37:VAL:HG22	9:z:73:VAL:HG13	1.97	0.47
1:0:2:ALA:N	1:0:23:GLU:OE2	2.48	0.47
2:1:31:GLY:HA3	2:1:64:TYR:CD1	2.49	0.47
2:2:373:PHE:HB2	2:2:405:VAL:HG22	1.96	0.47
2:3:642:PHE:CE2	2:AK:561:LYS:HG2	2.50	0.47
2:4:410:PRO:O	2:4:413:THR:HG22	2.15	0.47
5:A1:61:ILE:HG23	5:A1:227:LYS:HG3	1.96	0.47
5:A3:141:ARG:NH2	5:BF:444:ILE:O	2.48	0.47
5:A3:311:ARG:HG3	5:A3:312:VAL:H	1.80	0.47
6:A4:262:LYS:HE3	6:A4:500:MET:HE1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A4:265:GLN:HB2	6:A5:247:TRP:CZ3	2.50	0.47
6:A4:267:LYS:HE3	6:A4:470:VAL:HG21	1.96	0.47
6:A8:494:SER:C	6:A8:496:ILE:H	2.23	0.47
8:AB:134:VAL:HG21	8:AB:188:TRP:CE3	2.50	0.47
3:AE:117:ALA:HB3	3:AE:122:THR:HB	1.96	0.47
3:AH:118:ARG:N	3:AI:77:GLU:OE2	2.43	0.47
2:AK:3:LEU:HD22	2:AP:511:GLN:HE21	1.79	0.47
2:AL:655:THR:HA	2:AM:19:VAL:HG21	1.96	0.47
2:AM:110:TYR:H	2:AM:138:GLY:HA3	1.79	0.47
2:AO:39:PHE:HB3	2:AO:361:PHE:CE1	2.49	0.47
2:AP:10:LEU:HD22	2:B5:561:LYS:HG2	1.97	0.47
2:AP:195:LEU:HD23	2:AP:195:LEU:H	1.79	0.47
2:AP:368:VAL:HG12	2:AP:370:VAL:HG22	1.96	0.47
2:AP:560:LEU:HD21	2:AP:592:LEU:HD11	1.96	0.47
10:AQ:300:ARG:NH2	10:AQ:352:ASP:OD2	2.47	0.47
6:AZ:494:SER:C	6:AZ:496:ILE:H	2.22	0.47
6:Ag:184:GLU:O	6:Ag:185:THR:OG1	2.29	0.47
6:Ak:105:ASN:O	6:Ak:427:GLN:NE2	2.48	0.47
6:An:465:LYS:HD2	6:An:465:LYS:H	1.79	0.47
7:As:236:ASN:HB3	4:j:36:THR:HG23	1.97	0.47
5:Av:39:GLY:HA3	5:Av:250:ILE:HG12	1.97	0.47
5:Av:398:ARG:HH12	5:BB:390:PHE:HB2	1.79	0.47
5:Ax:209:ASP:OD1	5:Ax:209:ASP:N	2.46	0.47
2:B5:458:TYR:HD1	2:B6:317:LYS:HZ1	1.61	0.47
2:B6:40:GLN:H	2:B6:81:VAL:HG23	1.79	0.47
2:B7:302:LYS:HA	2:B7:308:ASN:HA	1.97	0.47
7:BC:160:ASP:OD1	7:BC:160:ASP:N	2.43	0.47
3:Bd:23:VAL:HG22	3:Bd:36:CYS:SG	2.55	0.47
3:Bi:22:GLN:HB2	3:Bi:116:TYR:HE1	1.80	0.47
2:Bp:451:ASP:OD1	2:Bp:452:GLY:N	2.40	0.47
2:Bp:514:ARG:NH1	2:Bq:364:ASP:OD1	2.41	0.47
2:Bq:427:VAL:HG22	2:Bq:520:GLU:HG3	1.96	0.47
2:Br:406:LEU:HD22	2:Br:474:ILE:HG13	1.97	0.47
2:Bu:90:LYS:HD2	2:Bu:192:GLY:H	1.79	0.47
2:Bx:102:THR:HB	2:Bx:183:THR:HB	1.97	0.47
2:Bz:36:GLY:O	2:Bz:82:ARG:NH1	2.42	0.47
2:Bz:46:ASN:OD1	2:Bz:47:GLU:N	2.48	0.47
2:Bz:166:ASN:N	2:Bz:166:ASN:OD1	2.45	0.47
4:J:34:ALA:N	4:K:25:ILE:O	2.42	0.47
1:l:5:ASP:OD2	1:l:8:LEU:N	2.48	0.47
1:m:117:SER:HA	1:m:168:LYS:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:122:LEU:HA	1:n:3:THR:HG21	1.97	0.47
8:t:168:MET:HG3	8:t:193:GLU:HB2	1.96	0.47
2:4:383:LEU:HD11	2:4:436:TYR:CD2	2.49	0.47
3:8:83:GLN:HA	3:8:86:VAL:HG22	1.96	0.47
5:A0:398:ARG:HG2	5:BH:379:ARG:HD2	1.97	0.47
6:A5:267:LYS:HB2	6:AW:247:TRP:CE3	2.50	0.47
6:A8:319:SER:HA	6:A8:323:LEU:HB2	1.97	0.47
2:AO:272:GLY:O	2:AO:274:GLN:NE2	2.48	0.47
6:AV:396:ALA:O	6:AZ:395:TYR:HA	2.15	0.47
7:AY:191:TYR:HA	7:AY:239:GLN:HE21	1.79	0.47
6:AZ:249:GLU:OE1	6:Am:66:ALA:N	2.48	0.47
7:Aa:303:PRO:HG3	5:BB:289:THR:HG22	1.96	0.47
6:Ae:117:MET:HG3	6:Ae:451:ALA:HB1	1.97	0.47
6:Ae:133:LYS:HG2	6:Ae:249:GLU:HB2	1.97	0.47
6:Ae:155:SER:OG	6:Ay:301:GLU:OE1	2.27	0.47
6:Ae:258:VAL:O	6:Ae:499:GLY:N	2.29	0.47
6:Ag:232:ILE:O	6:Ag:236:GLN:HG2	2.15	0.47
6:Ah:163:PHE:HB2	6:Ah:179:THR:HG23	1.97	0.47
6:Ah:236:GLN:HB3	6:Ah:247:TRP:NE1	2.30	0.47
6:Ai:456:LEU:HD23	6:Ai:475:THR:HB	1.97	0.47
6:An:232:ILE:O	6:An:236:GLN:HG2	2.15	0.47
6:Ao:199:ASP:HB2	6:Ao:211:GLU:HG2	1.97	0.47
6:Ao:450:TYR:CE1	6:Ao:477:TYR:HB2	2.50	0.47
2:B1:147:THR:HG22	2:B1:150:ILE:HD12	1.96	0.47
2:B2:252:LEU:HB3	2:B2:336:GLY:HA2	1.97	0.47
2:B4:278:GLN:HG2	2:B4:296:SER:HB3	1.96	0.47
2:B6:130:LYS:HZ3	2:B6:132:THR:HA	1.79	0.47
2:B7:44:VAL:HG11	2:B7:50:LEU:HB2	1.96	0.47
5:BD:497:GLU:OE1	5:BD:500:GLN:NE2	2.48	0.47
5:BF:457:LEU:HD13	5:BF:457:LEU:HA	1.82	0.47
6:BI:404:PHE:HZ	6:BI:417:LEU:HA	1.79	0.47
6:BM:486:GLU:HB2	6:BM:509:LYS:HB3	1.97	0.47
11:BO:11:LYS:HG3	11:BO:27:GLU:HG2	1.97	0.47
3:BY:90:SER:HA	3:BY:94:GLY:HA2	1.96	0.47
3:Bg:23:VAL:HG22	3:Bg:36:CYS:SG	2.54	0.47
3:Bm:49:ILE:HG23	3:Bm:60:VAL:HG13	1.95	0.47
2:Bu:440:ASN:OD1	2:Bu:440:ASN:N	2.48	0.47
2:Bu:482:ASP:HB2	2:Bu:487:THR:HG22	1.96	0.47
2:Bw:157:VAL:HG23	2:Bw:159:GLU:H	1.80	0.47
4:P:9:PRO:HD3	4:P:57:VAL:HG21	1.95	0.47
4:P:62:ILE:HD12	4:U:58:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:170:THR:HG21	8:r:181:LEU:HD22	1.96	0.47
1:m:44:ASP:HB2	1:m:163:GLN:NE2	2.29	0.47
1:m:213:ILE:HD13	8:t:70:THR:HG22	1.96	0.47
2:1:306:ASP:O	8:AB:221:ARG:NE	2.42	0.47
2:5:163:LEU:HD22	2:5:167:TRP:CE2	2.49	0.47
3:7:20:LEU:HA	9:AC:54:PHE:CD2	2.50	0.47
5:A2:181:GLN:HE22	5:A2:213:GLU:HA	1.80	0.47
5:A3:81:ASN:HD21	7:Al:127:ARG:HB3	1.80	0.47
6:A4:406:THR:OG1	6:A5:372:GLU:OE2	2.30	0.47
6:A9:502:SER:O	6:A9:506:SER:OG	2.27	0.47
8:AB:26:ILE:HG12	8:AB:37:ILE:HG13	1.97	0.47
3:AF:96:GLY:O	3:AJ:56:ARG:NH2	2.40	0.47
3:AG:97:ASN:HA	3:BX:3:VAL:HG12	1.97	0.47
2:AK:151:ILE:O	2:AK:155:LYS:HG2	2.15	0.47
2:AL:645:THR:OG1	2:Bv:629:ILE:O	2.32	0.47
2:AM:228:GLY:HA2	2:AM:345:SER:HB3	1.95	0.47
2:AN:560:LEU:O	2:AN:564:ILE:HG12	2.14	0.47
10:AQ:319:THR:HG23	10:AQ:325:TRP:HB3	1.97	0.47
6:AV:304:ARG:NH1	6:AV:426:ASP:OD1	2.47	0.47
7:AY:40:ARG:HH21	7:AY:254:LEU:HD22	1.81	0.47
6:Ae:235:LEU:HA	6:Ae:239:PHE:HB3	1.97	0.47
6:Af:71:ASP:OD1	6:Af:72:HIS:N	2.45	0.47
6:Am:267:LYS:HD3	6:BJ:247:TRP:HE3	1.80	0.47
6:An:381:ASN:HB3	6:An:521:ILE:HG21	1.96	0.47
5:Ax:105:ASP:OD1	5:BH:492:GLN:NE2	2.48	0.47
6:Ay:136:VAL:HG22	6:Ay:253:ARG:HD3	1.97	0.47
2:B2:527:GLY:HA2	2:B2:533:TYR:CD2	2.50	0.47
2:B6:346:SER:O	2:B6:350:VAL:HG23	2.15	0.47
5:BA:189:ILE:O	5:BA:189:ILE:HG13	2.15	0.47
5:BA:393:GLY:O	5:BA:454:PHE:HB2	2.13	0.47
5:BB:87:GLU:OE2	5:BB:366:ARG:NH1	2.43	0.47
5:BB:411:GLN:O	5:BB:415:GLU:HG3	2.15	0.47
7:BE:124:SER:HB3	7:BE:127:ARG:HH12	1.80	0.47
7:BL:193:ASP:O	7:BL:242:TYR:OH	2.31	0.47
3:BZ:142:LEU:HB3	3:Bo:21:PHE:CD1	2.50	0.47
3:Bi:4:ASP:OD1	3:Bi:4:ASP:N	2.42	0.47
2:Bw:470:LEU:O	2:Bw:474:ILE:HG12	2.15	0.47
2:Bw:569:LYS:HB2	2:By:8:ILE:HD11	1.97	0.47
2:By:373:PHE:HB2	2:By:405:VAL:HG22	1.97	0.47
1:m:45:VAL:HG11	1:n:9:PHE:CE2	2.50	0.47
1:m:101:SER:HA	1:m:110:VAL:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:176:TYR:HD1	8:t:71:ILE:HG23	1.79	0.47
8:u:151:GLU:OE1	8:u:199:TYR:OH	2.27	0.47
9:w:37:VAL:HG22	9:w:73:VAL:HG13	1.97	0.47
2:5:244:TYR:HE2	2:5:272:GLY:H	1.62	0.46
3:7:86:VAL:HG12	3:7:137:VAL:HG21	1.97	0.46
3:7:97:ASN:ND2	3:7:97:ASN:O	2.47	0.46
5:A0:41:ARG:HD3	5:A0:65:TYR:CZ	2.50	0.46
5:A1:220:ARG:HH11	5:A1:221:MET:H	1.63	0.46
5:A3:482:SER:HA	5:BG:505:ILE:HD11	1.96	0.46
6:A7:261:ALA:HA	6:A7:478:GLY:HA3	1.97	0.46
6:A8:328:LYS:NZ	6:A8:333:ASP:OD2	2.39	0.46
3:AE:1:MET:SD	3:AF:22:GLN:NE2	2.88	0.46
2:AL:209:ASP:O	2:AL:213:ASN:ND2	2.29	0.46
7:Aa:202:VAL:HG13	4:i:31:ILE:HG22	1.96	0.46
6:Aj:336:ASP:HB3	6:Aj:339:ASP:HB2	1.97	0.46
6:Ak:383:VAL:HG12	6:Ak:406:THR:HG22	1.97	0.46
6:An:176:ASP:OD1	6:An:177:ILE:N	2.47	0.46
6:Ao:400:LEU:HD11	6:BM:417:LEU:HG	1.96	0.46
7:Aq:80:ASN:OD1	7:Aq:80:ASN:N	2.47	0.46
7:Ar:234:ASP:N	7:Ar:234:ASP:OD1	2.47	0.46
5:Ax:213:GLU:H	5:Ax:213:GLU:HG3	1.57	0.46
6:Ay:121:THR:HA	6:Ay:259:ILE:O	2.14	0.46
6:Ay:481:ILE:N	6:Ay:499:GLY:O	2.44	0.46
2:B3:609:ASP:OD1	2:B3:611:THR:OG1	2.31	0.46
2:B4:252:LEU:HB3	2:B4:336:GLY:HA2	1.96	0.46
2:B7:101:TYR:O	2:B7:216:LYS:NZ	2.37	0.46
7:BC:55:LYS:HB3	7:BC:187:TRP:CE3	2.50	0.46
7:BE:231:VAL:HG12	4:G:29:GLU:O	2.15	0.46
5:BG:184:TYR:OH	5:BG:204:GLU:OE1	2.32	0.46
5:BG:462:ILE:O	5:BG:466:ARG:HG3	2.15	0.46
7:BL:128:PHE:H	7:BL:128:PHE:HD1	1.63	0.46
7:BL:199:GLY:O	7:BL:204:TYR:OH	2.33	0.46
3:BZ:25:ILE:HD12	3:BZ:28:LEU:HD12	1.96	0.46
2:Bp:390:GLN:HB3	2:Bp:441:PHE:HE1	1.80	0.46
2:Bs:470:LEU:O	2:Bs:474:ILE:HG12	2.15	0.46
2:Bu:456:TYR:CE1	2:Bu:465:ASN:HB3	2.50	0.46
2:Bw:272:GLY:O	2:Bw:274:GLN:NE2	2.47	0.46
2:Bw:417:ILE:H	2:Bw:417:ILE:HD13	1.80	0.46
2:By:617:VAL:HG22	2:By:622:GLU:HB2	1.97	0.46
2:Bz:455:LYS:HD3	2:Bz:457:GLN:HB2	1.97	0.46
4:D:47:PRO:HB2	4:T:48:THR:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:69:LEU:HD21	4:S:68:SER:HB3	1.97	0.46
4:I:48:THR:HG21	4:T:47:PRO:HB2	1.97	0.46
8:r:76:ASN:ND2	8:r:121:SER:HB2	2.30	0.46
9:v:74:ARG:HH11	9:v:154:VAL:HG11	1.79	0.46
2:1:23:SER:OG	2:1:483:ASN:OD1	2.33	0.46
2:1:302:LYS:NZ	2:1:306:ASP:OD1	2.49	0.46
3:6:23:VAL:HG13	3:6:36:CYS:SG	2.55	0.46
4:A:10:PHE:HB3	4:A:22:ILE:HG12	1.98	0.46
5:A3:367:GLN:HA	5:A3:377:LEU:HD11	1.97	0.46
6:A5:231:SER:HB3	6:A9:71:ASP:HB3	1.97	0.46
6:A7:274:LEU:HD13	6:Au:69:GLY:HA2	1.97	0.46
6:A7:380:ARG:NH2	6:A7:408:THR:OG1	2.40	0.46
6:A7:467:PHE:HB3	6:Ay:459:LEU:HD22	1.97	0.46
8:AB:231:GLU:OE2	2:AD:561:LYS:NZ	2.32	0.46
2:AD:304:ILE:HG13	2:AD:305:TYR:H	1.79	0.46
2:AD:498:GLN:HG2	2:AD:534:VAL:HG12	1.97	0.46
2:AD:594:GLY:HA2	3:o:8:ARG:HH11	1.80	0.46
3:AF:98:GLU:OE1	3:AF:98:GLU:N	2.47	0.46
2:AP:299:ARG:H	2:AP:299:ARG:HD2	1.80	0.46
10:AR:306:TRP:HB3	6:Ak:337:PRO:HB3	1.97	0.46
10:AS:299:HIS:H	10:AS:299:HIS:CD2	2.32	0.46
6:AV:244:ASP:HB2	11:BV:13:PHE:HE2	1.80	0.46
6:AW:383:VAL:HG12	6:AW:406:THR:HG22	1.97	0.46
7:Aa:246:TRP:CE2	7:Aa:297:LEU:HB2	2.50	0.46
6:Ac:117:MET:HG3	6:Ac:451:ALA:HB1	1.97	0.46
6:Ag:71:ASP:OD1	6:Ag:72:HIS:N	2.48	0.46
6:Ag:507:LEU:O	6:Ag:509:LYS:NZ	2.33	0.46
6:Aj:390:ASP:H	6:Aj:397:ALA:HB3	1.80	0.46
6:Ak:79:ILE:HG23	6:Ao:121:THR:HB	1.97	0.46
6:An:364:ILE:HD12	6:An:436:VAL:HG23	1.97	0.46
6:Ap:358:ASP:OD1	6:Ap:420:LYS:NZ	2.48	0.46
7:Aq:40:ARG:HH21	7:Aq:254:LEU:HD22	1.80	0.46
7:Aq:213:TRP:HE3	7:Aq:217:GLU:HG2	1.80	0.46
7:Ar:161:PHE:HA	7:Ar:171:LYS:O	2.15	0.46
5:Av:408:ARG:HE	5:Av:450:ARG:HH21	1.64	0.46
6:Aw:147:MET:HE3	6:Aw:366:ARG:HH12	1.80	0.46
5:Ax:39:GLY:HA3	5:Ax:250:ILE:HG13	1.97	0.46
2:B4:406:LEU:HD22	2:B4:474:ILE:HG13	1.95	0.46
2:B4:453:ASN:ND2	2:B4:505:LEU:HG	2.28	0.46
2:B5:37:PRO:HG3	2:B5:226:TYR:CZ	2.50	0.46
2:B5:315:PHE:HE1	2:B5:323:ILE:HG13	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:456:TYR:O	2:B7:503:ILE:HG12	2.14	0.46
7:BC:193:ASP:OD1	7:BC:193:ASP:N	2.49	0.46
5:BD:275:ARG:NH1	5:BD:355:ASN:HB2	2.30	0.46
5:BG:454:PHE:HA	5:BG:457:LEU:HB2	1.96	0.46
7:BL:91:ASN:ND2	7:BL:101:ASN:OD1	2.48	0.46
3:Bc:115:GLN:NE2	3:Bc:116:TYR:O	2.48	0.46
3:Bj:117:ALA:HB3	3:Bj:122:THR:HB	1.96	0.46
2:Bp:509:THR:O	2:Bp:514:ARG:NH1	2.47	0.46
2:Br:479:ALA:O	2:Br:483:ASN:ND2	2.48	0.46
2:Bs:240:SER:OG	2:Bs:243:ASP:OD1	2.33	0.46
2:Bt:29:LEU:O	2:Bt:80:VAL:HA	2.15	0.46
2:Bw:268:VAL:HG21	2:Bw:282:ILE:HD13	1.97	0.46
2:Bx:283:VAL:HB	2:Bx:291:GLN:HB3	1.97	0.46
2:By:480:ARG:C	2:By:482:ASP:H	2.23	0.46
2:Bz:332:GLU:N	2:Bz:332:GLU:OE1	2.44	0.46
1:k:136:ASP:N	1:k:136:ASP:OD1	2.48	0.46
1:k:151:TRP:HZ2	8:q:59:ILE:HD12	1.80	0.46
1:m:112:ASP:HB2	1:m:173:LYS:HD3	1.97	0.46
1:p:140:PHE:HB2	1:p:147:PHE:HE1	1.80	0.46
8:q:151:GLU:OE1	8:q:199:TYR:OH	2.24	0.46
9:v:168:LYS:HD2	9:w:85:ILE:HG21	1.97	0.46
2:2:375:ALA:HB3	2:2:407:CYS:HA	1.97	0.46
2:2:417:ILE:HD13	2:2:417:ILE:H	1.79	0.46
2:2:642:PHE:CZ	2:AP:561:LYS:HG2	2.51	0.46
2:3:413:THR:OG1	2:3:425:ASN:HB3	2.16	0.46
2:4:35:TRP:HB2	2:4:230:LEU:HD12	1.97	0.46
2:5:494:TYR:OH	2:5:528:THR:OG1	2.31	0.46
4:A:24:TRP:HB3	4:Q:45:ASN:ND2	2.29	0.46
5:A0:29:VAL:HG13	5:BH:8:LEU:HD23	1.97	0.46
5:A1:72:THR:HG23	5:A1:155:ARG:NH2	2.30	0.46
5:A1:477:ILE:HA	5:A1:481:ILE:HG22	1.97	0.46
6:A4:420:LYS:HD3	6:A9:400:LEU:HD23	1.96	0.46
8:AB:42:THR:HB	8:AB:46:LYS:NZ	2.31	0.46
8:AB:68:VAL:HG11	1:p:207:LEU:HD11	1.97	0.46
3:AI:18:PRO:HG3	3:AJ:149:GLU:HB2	1.98	0.46
2:AK:491:PRO:HG3	2:AK:555:ARG:HH11	1.81	0.46
2:AM:642:PHE:CZ	2:By:561:LYS:HG2	2.50	0.46
2:AN:193:ILE:HD12	2:AN:193:ILE:HA	1.83	0.46
2:AO:29:LEU:O	2:AO:80:VAL:HA	2.16	0.46
6:AX:454:VAL:O	6:AX:475:THR:OG1	2.25	0.46
7:Aa:138:LEU:HB3	5:Av:273:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ac:121:THR:HB	6:Aw:79:ILE:HG23	1.95	0.46
7:Al:12:LEU:HD21	7:Al:248:LYS:HG2	1.96	0.46
6:Am:265:GLN:HG3	6:BJ:247:TRP:NE1	2.31	0.46
6:Ao:114:VAL:N	6:Ao:443:GLU:OE2	2.42	0.46
7:At:71:THR:HG21	7:BC:216:SER:HB3	1.97	0.46
5:Av:379:ARG:NE	5:Av:400:GLU:OE2	2.48	0.46
2:B2:480:ARG:O	2:B2:484:VAL:HG12	2.15	0.46
2:B2:636:ASN:H	2:B3:621:ASN:HB3	1.81	0.46
2:B5:655:THR:HB	2:Bp:19:VAL:HB	1.97	0.46
2:B7:46:ASN:OD1	2:B7:47:GLU:N	2.48	0.46
7:BC:162:TRP:NE1	7:BE:54:ASN:HA	2.30	0.46
6:BI:190:LEU:HB3	6:BI:221:LEU:HB3	1.96	0.46
6:BI:261:ALA:HA	6:BI:478:GLY:HA3	1.96	0.46
7:BL:34:ILE:O	7:BL:38:ILE:HG12	2.15	0.46
7:BL:201:THR:HA	4:M:30:GLU:HA	1.96	0.46
6:BM:147:MET:SD	6:BM:487:SER:OG	2.65	0.46
11:BQ:38:VAL:HG11	11:BQ:69:ILE:HG12	1.97	0.46
3:BX:140:LEU:HD21	3:BX:151:GLN:OE1	2.15	0.46
3:Bb:114:ARG:HD2	3:Bb:123:VAL:HG11	1.97	0.46
3:Bg:9:ALA:HB2	3:Bj:34:PHE:HB2	1.96	0.46
3:Bl:98:GLU:OE1	3:Bl:98:GLU:N	2.47	0.46
2:Bq:28:ALA:HB2	2:Bq:370:VAL:HG21	1.96	0.46
2:Br:34:GLN:HB3	2:Br:55:GLY:HA3	1.97	0.46
2:Br:373:PHE:HB2	2:Br:405:VAL:HG22	1.97	0.46
2:Bs:217:TYR:HB2	2:Bs:219:ILE:HD12	1.96	0.46
4:g:10:PHE:O	4:g:54:ASN:ND2	2.36	0.46
1:l:185:LEU:HD22	1:l:197:SER:HB2	1.96	0.46
8:t:72:LEU:O	8:t:74:ARG:N	2.48	0.46
9:y:51:THR:HG22	9:y:59:ALA:HB2	1.98	0.46
2:1:600:GLY:O	2:1:632:ALA:HB2	2.15	0.46
2:2:107:GLY:HA3	2:2:110:TYR:HE2	1.79	0.46
2:2:605:ARG:HB3	2:2:628:TYR:CD1	2.50	0.46
2:3:202:GLU:OE1	2:3:203:ALA:N	2.48	0.46
2:3:246:LYS:HG3	2:3:250:ALA:HB2	1.98	0.46
2:4:373:PHE:HB2	2:4:405:VAL:HG22	1.97	0.46
3:7:138:GLY:HA2	3:7:154:GLU:O	2.15	0.46
6:A4:426:ASP:OD2	6:A4:433:TYR:OH	2.24	0.46
6:A9:245:ASN:N	6:A9:245:ASN:OD1	2.47	0.46
8:AB:71:ILE:HG23	1:p:176:TYR:CD1	2.50	0.46
2:AD:443:ILE:HG22	2:AD:445:SER:H	1.81	0.46
3:AF:28:LEU:HD22	3:AF:84:LYS:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AO:69:MET:O	2:AO:73:GLN:HG2	2.15	0.46
2:AO:157:VAL:HG23	2:AO:159:GLU:H	1.80	0.46
2:AO:601:ILE:HG21	2:AO:604:TYR:HB3	1.98	0.46
2:AP:644:ALA:HA	2:Bp:557:PHE:HZ	1.79	0.46
6:AV:279:ARG:HH22	5:BG:65:TYR:HA	1.80	0.46
6:Af:244:ASP:N	6:Af:244:ASP:OD1	2.48	0.46
6:Ak:261:ALA:HA	6:Ak:478:GLY:HA3	1.98	0.46
6:Ao:88:VAL:HG13	6:BM:258:VAL:HG21	1.96	0.46
6:Ao:384:ASN:HD21	6:BM:362:VAL:HG11	1.79	0.46
6:Ap:152:ALA:HA	6:BI:301:GLU:HG2	1.96	0.46
7:Aq:162:TRP:CD1	7:As:54:ASN:HA	2.50	0.46
7:As:213:TRP:CE3	7:As:217:GLU:HG2	2.51	0.46
7:As:272:PRO:HD3	1:l:47:VAL:HG13	1.98	0.46
7:At:191:TYR:HA	7:At:239:GLN:HE21	1.80	0.46
5:Av:287:VAL:HG22	5:Av:345:THR:HG23	1.97	0.46
6:Az:336:ASP:O	6:Az:340:ILE:HG12	2.16	0.46
2:B1:137:ASP:OD1	2:B1:137:ASP:N	2.47	0.46
2:B3:430:ARG:HH21	2:B3:541:ALA:HB1	1.80	0.46
2:B3:480:ARG:C	2:B3:482:ASP:H	2.22	0.46
2:B6:47:GLU:HG3	2:B6:69:MET:HG3	1.97	0.46
2:B6:644:ALA:HA	2:B7:557:PHE:HZ	1.81	0.46
5:BB:396:ILE:HG22	5:BB:401:LEU:HG	1.97	0.46
5:BG:454:PHE:CE2	5:BG:458:LYS:HD2	2.51	0.46
3:BY:25:ILE:HG22	3:BY:27:TYR:H	1.81	0.46
3:Ba:124:THR:OG1	3:Bd:77:GLU:O	2.24	0.46
3:Bc:118:ARG:N	3:Bf:77:GLU:OE2	2.49	0.46
3:Be:118:ARG:NH2	3:Bg:92:ALA:O	2.48	0.46
2:Bs:118:VAL:HB	2:Bs:126:GLU:HB3	1.98	0.46
2:Bs:556:LEU:HD23	2:Bs:560:LEU:HD13	1.96	0.46
2:Bs:604:TYR:HB2	2:Bs:629:ILE:HG22	1.96	0.46
2:Bt:561:LYS:HD3	2:Bv:10:LEU:HD13	1.97	0.46
2:Bu:414:VAL:HG23	2:Bu:422:ALA:HB1	1.98	0.46
2:Bz:147:THR:HG22	2:Bz:150:ILE:HD12	1.96	0.46
1:l:51:ILE:HD12	1:l:119:ASN:HB2	1.97	0.46
9:v:102:ASN:O	9:v:105:GLN:NE2	2.37	0.46
2:2:163:LEU:HD22	2:2:167:TRP:CE2	2.51	0.46
2:2:225:LEU:HB3	2:2:324:PHE:HB2	1.97	0.46
2:2:538:ASP:N	2:2:538:ASP:OD1	2.48	0.46
2:3:624:VAL:HG12	8:s:213:TYR:HB2	1.97	0.46
2:5:373:PHE:HB2	2:5:405:VAL:HG22	1.97	0.46
3:8:134:PRO:HA	3:8:157:LEU:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A9:380:ARG:HE	6:A9:408:THR:HG21	1.81	0.46
2:AD:487:THR:HG21	2:AD:559:MET:HE3	1.97	0.46
3:AG:69:TRP:HB2	3:AG:159:LEU:HD23	1.98	0.46
3:AH:43:ALA:O	3:AH:162:TRP:NE1	2.43	0.46
2:AK:116:ILE:HG12	2:AK:130:LYS:HA	1.96	0.46
2:AK:310:TYR:O	2:AK:314:PHE:HB3	2.15	0.46
2:AL:32:LYS:HD2	2:AL:355:LEU:HD21	1.97	0.46
2:AM:66:MET:HG2	2:AM:468:VAL:HG21	1.98	0.46
2:AN:406:LEU:HD13	2:AN:475:ALA:HB2	1.96	0.46
6:AW:236:GLN:HB3	6:AW:247:TRP:NE1	2.30	0.46
7:AY:55:LYS:HD3	7:BL:173:MET:HE3	1.97	0.46
7:Aa:196:LYS:HB3	7:Aa:226:LEU:HD11	1.96	0.46
7:Ab:66:GLU:HA	7:Ab:69:TYR:HB3	1.97	0.46
6:Ad:387:ALA:HB2	6:Ad:404:PHE:HB2	1.97	0.46
6:Ad:445:ASP:N	6:Ad:445:ASP:OD1	2.48	0.46
6:Ae:127:LEU:HD11	6:Ae:252:PHE:HB2	1.96	0.46
6:Ae:350:PHE:HB2	6:Ae:389:VAL:HG11	1.97	0.46
7:Al:210:GLN:OE1	7:Al:218:ARG:NH2	2.45	0.46
7:Aq:210:GLN:HA	7:Aq:227:VAL:HG13	1.97	0.46
6:Au:458:PRO:HB3	6:Au:473:PHE:CE2	2.51	0.46
6:Au:459:LEU:HD21	6:Au:474:LYS:HD2	1.97	0.46
6:Az:266:LEU:HB3	6:Az:294:LEU:HD22	1.98	0.46
2:B3:159:GLU:HB3	2:B3:163:LEU:HD23	1.98	0.46
2:B4:617:VAL:HG23	2:B4:622:GLU:HB2	1.96	0.46
5:BH:80:ARG:NH2	5:BH:153:ASP:OD2	2.39	0.46
7:BL:206:THR:HG21	7:BL:213:TRP:HE1	1.79	0.46
6:BM:317:GLY:HA2	6:BM:514:ARG:HE	1.80	0.46
6:BM:414:ALA:HB3	6:BM:423:VAL:HG13	1.98	0.46
11:BR:9:ASN:HB3	11:BR:56:TYR:CE2	2.50	0.46
3:Bk:58:ILE:HD13	3:Bk:58:ILE:H	1.79	0.46
3:Bn:40:ALA:H	3:Bn:69:TRP:HE1	1.63	0.46
3:Bn:136:ASN:ND2	3:Bn:136:ASN:O	2.49	0.46
2:Bp:41:ILE:HD13	2:Bp:81:VAL:HB	1.98	0.46
2:Bp:281:ILE:O	2:Bp:292:SER:HA	2.15	0.46
2:Br:32:LYS:HD2	2:Br:32:LYS:H	1.81	0.46
2:Br:557:PHE:HB3	2:Br:561:LYS:NZ	2.29	0.46
2:Bs:119:LYS:HE3	2:Bs:119:LYS:HB2	1.84	0.46
2:Bt:100:GLU:HB3	2:Bt:188:ILE:HD11	1.98	0.46
2:Bt:128:GLU:HB2	2:Bt:146:PRO:HG2	1.97	0.46
2:Bu:417:ILE:HB	2:Bu:421:ARG:HB3	1.98	0.46
2:Bv:427:VAL:HG13	2:Bv:520:GLU:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:By:102:THR:N	2:By:183:THR:O	2.45	0.46
3:o:54:MET:C	3:o:56:ARG:H	2.22	0.46
8:q:13:TYR:CD2	8:q:116:MET:HE1	2.49	0.46
2:1:10:LEU:HD13	2:AN:561:LYS:HB3	1.96	0.46
2:1:117:THR:HG23	2:1:127:THR:HG22	1.98	0.46
2:2:131:ILE:HD13	2:2:140:ILE:HG21	1.97	0.46
2:2:310:TYR:O	2:2:314:PHE:HB2	2.15	0.46
2:3:241:LYS:O	2:3:244:TYR:CB	2.63	0.46
2:3:453:ASN:HB2	2:3:506:ALA:HB3	1.98	0.46
2:4:240:SER:OG	2:4:334:PHE:O	2.24	0.46
2:4:430:ARG:HG3	2:4:522:ILE:HD11	1.97	0.46
2:5:66:MET:HG2	2:5:468:VAL:HG21	1.97	0.46
4:A:26:LYS:NZ	4:Q:37:GLN:O	2.49	0.46
5:A0:125:MET:O	5:A0:129:GLU:HG2	2.16	0.46
5:A1:366:ARG:NH1	5:A1:382:GLN:OE1	2.48	0.46
5:A2:213:GLU:CD	5:A2:214:SER:H	2.24	0.46
5:A2:339:ARG:HB3	5:A2:342:LYS:HZ3	1.80	0.46
6:A4:79:ILE:HG23	6:A5:121:THR:HG22	1.98	0.46
6:A5:96:MET:HB2	6:AW:124:VAL:HB	1.96	0.46
6:A8:107:ILE:O	6:A8:303:ASN:ND2	2.45	0.46
3:AG:39:THR:HG22	3:AG:71:VAL:HG22	1.97	0.46
2:AK:57:PRO:HG3	2:AK:65:PHE:CD1	2.51	0.46
2:AO:644:ALA:HA	2:B5:557:PHE:CZ	2.51	0.46
7:Ab:17:LEU:HD23	1:l:12:LEU:HD12	1.98	0.46
7:Ab:122:GLY:N	7:Ab:137:ASP:OD2	2.39	0.46
7:Ab:271:LEU:HB3	7:Ab:272:PRO:HD2	1.96	0.46
6:Ac:71:ASP:OD1	6:Ac:72:HIS:N	2.48	0.46
6:Ad:232:ILE:O	6:Ad:236:GLN:HG2	2.16	0.46
6:Af:123:GLN:HB3	6:Af:258:VAL:HG12	1.98	0.46
6:Ak:274:LEU:HD13	6:BK:69:GLY:HA2	1.98	0.46
7:Al:138:LEU:HD21	7:BE:151:MET:HB2	1.98	0.46
7:Al:216:SER:HB3	7:BE:71:THR:HG21	1.98	0.46
6:Am:204:ASP:OD1	6:Am:205:ALA:N	2.48	0.46
6:Ao:263:SER:O	6:BM:228:MET:HG2	2.16	0.46
6:Ap:311:ASN:O	6:Ap:515:ARG:NH1	2.49	0.46
7:As:23:PRO:HB3	1:m:17:GLY:HA2	1.96	0.46
6:Au:314:ALA:HA	6:Au:513:PHE:HB2	1.98	0.46
5:Ax:45:VAL:HG11	5:Ax:57:ALA:HB2	1.97	0.46
5:Ax:373:LEU:HD23	5:Ax:373:LEU:HA	1.84	0.46
6:Az:379:SER:OG	6:Az:432:ASP:OD1	2.29	0.46
2:B1:569:LYS:HG3	2:Bz:494:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:44:VAL:HG11	2:B2:50:LEU:HB2	1.98	0.46
2:B6:36:GLY:O	2:B6:82:ARG:NH1	2.48	0.46
5:BA:18:ARG:O	5:BA:21:LYS:HG3	2.16	0.46
5:BD:125:MET:O	5:BD:129:GLU:HG2	2.15	0.46
7:BE:66:GLU:HA	7:BE:69:TYR:HB3	1.98	0.46
5:BF:82:LEU:HD22	5:BF:258:VAL:HG22	1.97	0.46
5:BF:86:TYR:C	5:BF:88:VAL:H	2.24	0.46
5:BF:366:ARG:NH2	5:BF:383:ASP:OD1	2.45	0.46
5:BG:69:MET:O	5:BG:72:THR:HG22	2.16	0.46
6:BJ:383:VAL:HG12	6:BJ:406:THR:HG22	1.97	0.46
3:Bf:70:THR:HG22	3:Bf:156:THR:HG22	1.98	0.46
3:Bh:70:THR:HG22	3:Bh:156:THR:HG22	1.98	0.46
2:Bq:511:GLN:OE1	2:Bt:5:SER:OG	2.33	0.46
2:Br:135:ASP:N	2:Br:139:LYS:O	2.47	0.46
2:Br:480:ARG:O	2:Br:484:VAL:HG12	2.15	0.46
2:Bt:69:MET:O	2:Bt:73:GLN:HG2	2.15	0.46
2:Bt:131:ILE:HD11	2:Bt:171:ILE:HD13	1.97	0.46
2:Bv:44:VAL:HG11	2:Bv:50:LEU:HB2	1.97	0.46
2:Bv:432:ALA:HB2	2:Bv:440:ASN:HD22	1.80	0.46
2:Bx:26:THR:HA	2:Bx:77:ASP:O	2.15	0.46
4:J:12:ASP:HB2	4:L:52:LEU:HD21	1.97	0.46
4:i:59:ASP:O	4:i:62:ILE:HG22	2.16	0.46
1:n:188:ASN:OD1	1:n:189:GLU:N	2.42	0.46
1:p:63:ARG:H	1:p:136:ASP:HB3	1.81	0.46
2:1:605:ARG:HG2	2:1:607:VAL:HG23	1.97	0.46
2:2:639:THR:HG23	2:3:11:LYS:HD3	1.97	0.46
3:7:80:ASP:OD1	3:7:84:LYS:NZ	2.49	0.46
3:9:148:ASN:HA	9:w:47:THR:HG22	1.97	0.46
5:A0:137:LEU:HG	5:A0:174:LEU:HD12	1.98	0.46
5:A1:290:GLY:HA2	5:BD:340:ASP:H	1.81	0.46
5:A2:304:VAL:HG13	7:AY:305:GLY:HA2	1.97	0.46
6:A4:136:VAL:HG22	6:A4:253:ARG:HG3	1.97	0.46
6:A8:120:PRO:HD3	6:A8:453:TYR:CZ	2.50	0.46
6:A8:133:LYS:HA	6:A8:249:GLU:HB2	1.98	0.46
6:A8:322:THR:HG22	6:A8:359:LYS:HG2	1.97	0.46
3:AA:7:THR:HG23	3:AA:14:ASP:H	1.80	0.46
3:AH:87:ASP:O	3:AH:91:ILE:HG13	2.15	0.46
2:AK:417:ILE:HD13	2:AK:417:ILE:H	1.81	0.46
2:AK:521:ALA:HB1	2:AK:541:ALA:HA	1.98	0.46
2:AK:612:ASN:HB3	2:AK:624:VAL:HG23	1.97	0.46
2:AL:134:VAL:HA	2:AL:140:ILE:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:411:ARG:O	2:AL:415:VAL:HB	2.16	0.46
2:AL:477:LEU:HD11	2:AL:497:GLY:HA2	1.97	0.46
2:AN:57:PRO:HG3	2:AN:65:PHE:HB3	1.98	0.46
2:AP:28:ALA:HB2	2:AP:370:VAL:HG21	1.98	0.46
2:AP:247:GLY:O	2:AP:263:SER:OG	2.34	0.46
2:AP:494:TYR:OH	2:AP:528:THR:OG1	2.27	0.46
7:Aa:88:LEU:HD13	7:Aa:183:ILE:HG22	1.98	0.46
6:Ac:163:PHE:HB2	6:Ac:179:THR:HG23	1.97	0.46
6:Ae:380:ARG:H	6:Ae:380:ARG:HG2	1.60	0.46
6:Ah:154:PHE:CE2	6:Ah:248:ASN:HB3	2.51	0.46
6:Am:154:PHE:O	6:Am:248:ASN:ND2	2.46	0.46
6:Am:484:PHE:O	6:Am:487:SER:OG	2.32	0.46
7:As:23:PRO:HA	1:m:17:GLY:HA2	1.98	0.46
7:At:114:MET:HG2	5:BH:266:LEU:HG	1.97	0.46
7:At:203:GLY:HA2	4:S:32:LEU:HD23	1.98	0.46
5:Av:350:LEU:HD21	5:BB:283:ARG:NH1	2.30	0.46
2:B2:453:ASN:ND2	2:B2:505:LEU:HG	2.30	0.46
2:B2:654:LEU:HD22	2:B3:605:ARG:HD3	1.97	0.46
2:B3:195:LEU:HD11	2:B3:225:LEU:HA	1.97	0.46
2:B5:222:VAL:HG22	2:B5:325:ALA:HB2	1.98	0.46
7:BE:99:ASP:N	7:BE:99:ASP:OD1	2.48	0.46
5:BG:497:GLU:O	5:BG:501:GLU:HG2	2.16	0.46
5:BH:454:PHE:CE2	5:BH:458:LYS:HD2	2.50	0.46
11:BO:9:ASN:HB3	11:BO:56:TYR:CE2	2.51	0.46
3:Bh:43:ALA:HA	3:Bk:138:GLY:HA3	1.98	0.46
3:Bl:23:VAL:HG22	3:Bl:36:CYS:SG	2.56	0.46
2:Bq:26:THR:HA	2:Bq:77:ASP:O	2.16	0.46
2:Bt:244:TYR:CZ	2:Bt:266:LYS:HD2	2.50	0.46
2:Bv:131:ILE:HA	2:Bv:143:ILE:HG22	1.98	0.46
2:Bv:238:ILE:HG12	2:Bv:281:ILE:HG12	1.97	0.46
2:Bv:526:THR:OG1	2:Bw:366:GLU:OE1	2.32	0.46
2:Bw:69:MET:O	2:Bw:73:GLN:HG2	2.16	0.46
4:F:48:THR:HG21	4:Q:47:PRO:HB2	1.98	0.46
1:l:215:ILE:HG23	8:s:56:TRP:CH2	2.51	0.46
1:m:213:ILE:O	8:t:55:LYS:HD2	2.16	0.46
1:n:83:ALA:HB2	1:n:183:PRO:HB3	1.98	0.46
1:p:146:LEU:HD13	1:p:174:PHE:HD2	1.80	0.46
8:u:62:GLN:HB3	8:u:63:GLU:H	1.49	0.46
2:5:490:SER:OG	2:5:538:ASP:OD2	2.28	0.46
2:5:514:ARG:NH2	2:AM:364:ASP:OD1	2.42	0.46
3:6:140:LEU:HD11	3:6:151:GLN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:132:LEU:HD21	3:8:157:LEU:HD13	1.97	0.46
5:A1:318:THR:O	7:Aq:70:LYS:NZ	2.43	0.46
5:A1:393:GLY:HA2	5:A1:457:LEU:HD12	1.98	0.46
5:A2:239:HIS:CD2	5:A2:241:GLY:H	2.34	0.46
5:A3:12:TRP:CD1	5:A3:234:ALA:HB2	2.51	0.46
5:A3:160:LYS:HE3	5:A3:236:VAL:HG22	1.97	0.46
6:A7:69:GLY:N	6:A9:234:GLU:OE2	2.48	0.46
3:AF:143:ASP:OD1	3:AF:144:TRP:N	2.49	0.46
3:AH:6:VAL:HG21	3:o:58:ILE:HG12	1.96	0.46
2:AL:99:ILE:HD13	2:AL:184:LEU:HD22	1.97	0.46
2:AP:12:GLU:H	2:AP:12:GLU:HG2	1.58	0.46
10:AQ:297:LEU:HB3	6:Af:328:LYS:NZ	2.29	0.46
6:AV:401:ALA:O	6:AZ:420:LYS:NZ	2.41	0.46
7:AY:200:ASN:ND2	7:AY:233:GLN:O	2.49	0.46
6:AZ:204:ASP:OD1	6:AZ:205:ALA:N	2.48	0.46
6:Ak:139:GLY:O	6:Ak:141:LYS:NZ	2.37	0.46
7:Al:98:MET:HB3	6:BM:459:LEU:HD23	1.98	0.46
6:An:276:GLN:HG2	7:Aq:151:MET:SD	2.56	0.46
6:An:337:PRO:HA	6:An:340:ILE:HG12	1.98	0.46
6:Ao:278:LEU:HG	6:Ao:284:MET:HB2	1.98	0.46
6:Ap:131:TYR:CE1	6:Ap:141:LYS:HB2	2.49	0.46
7:As:230:VAL:HB	7:As:233:GLN:HG2	1.97	0.46
7:At:30:THR:OG1	7:At:33:GLN:OE1	2.17	0.46
6:Au:267:LYS:O	6:Ay:249:GLU:HA	2.16	0.46
5:Av:158:PHE:HB2	5:Av:236:VAL:HB	1.98	0.46
6:Ay:262:LYS:HE3	6:Ay:500:MET:HE2	1.96	0.46
6:Ay:404:PHE:HB3	6:Ay:414:ALA:HB1	1.97	0.46
2:B2:514:ARG:NH1	2:B3:366:GLU:OE2	2.49	0.46
2:B2:642:PHE:HB3	2:B3:557:PHE:HE2	1.81	0.46
2:B3:116:ILE:HB	2:B3:129:GLY:HA3	1.98	0.46
2:B4:550:ARG:HB3	2:B4:553:VAL:HG12	1.97	0.46
5:BA:111:LEU:HD11	5:BA:444:ILE:HD11	1.98	0.46
7:BC:261:GLN:OE1	7:BE:256:LYS:NZ	2.49	0.46
7:BE:161:PHE:HA	7:BE:171:LYS:O	2.16	0.46
6:BJ:363:GLU:HA	6:BJ:366:ARG:HG2	1.97	0.46
7:BL:296:GLU:O	7:BL:299:LEU:HD12	2.16	0.46
11:BU:14:GLU:HB3	11:BU:25:GLY:H	1.80	0.46
3:BY:8:ARG:HA	3:BY:11:GLU:HG2	1.97	0.46
3:BY:83:GLN:HA	3:BY:86:VAL:HG22	1.98	0.46
3:Be:69:TRP:CZ3	3:Be:132:LEU:HD21	2.50	0.46
2:Bs:148:ALA:O	2:Bs:151:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bs:153:LYS:HB3	2:Bs:167:TRP:HH2	1.81	0.46
2:Bx:40:GLN:H	2:Bx:81:VAL:HG23	1.81	0.46
2:By:49:ASP:N	2:By:49:ASP:OD1	2.46	0.46
2:By:617:VAL:HG23	2:By:620:ARG:HD2	1.98	0.46
2:Bz:57:PRO:O	2:Bz:462:ASN:ND2	2.47	0.46
2:Bz:427:VAL:HG13	2:Bz:520:GLU:HG3	1.97	0.46
4:C:48:THR:HG21	4:H:47:PRO:HB2	1.98	0.46
4:H:6:ASN:HB2	4:H:57:VAL:HG13	1.98	0.46
4:a:10:PHE:O	4:a:54:ASN:ND2	2.49	0.46
8:t:105:VAL:HG23	8:t:205:ALA:HB3	1.98	0.46
8:u:8:SER:O	8:u:12:ARG:HG2	2.15	0.46
9:x:137:ASP:OD1	9:x:138:LEU:N	2.49	0.46
2:1:152:ALA:O	2:1:156:GLU:HG2	2.16	0.46
2:2:154:ALA:HB2	2:2:163:LEU:HD11	1.98	0.46
2:2:623:PHE:HB3	8:r:212:THR:HG22	1.97	0.46
2:4:600:GLY:O	2:4:632:ALA:HB2	2.16	0.46
2:5:379:ALA:HB2	2:5:411:ARG:HB2	1.97	0.46
3:8:41:LEU:N	3:9:140:LEU:O	2.41	0.46
3:9:131:GLY:O	3:9:159:LEU:HA	2.15	0.46
5:A0:207:ILE:HD11	5:A0:227:LYS:HB3	1.98	0.46
5:A1:175:ARG:NH1	5:BB:30:SER:OG	2.48	0.46
5:A1:304:VAL:O	5:A1:308:MET:HB3	2.15	0.46
5:A2:6:LEU:HD11	5:A2:228:ILE:HD13	1.98	0.46
5:A2:160:LYS:NZ	5:A2:424:THR:OG1	2.35	0.46
5:A3:345:THR:HG21	7:A6:306:ILE:HD11	1.98	0.46
7:A6:163:PHE:HA	7:A6:170:LEU:HA	1.97	0.46
8:AB:43:TYR:HD1	8:AB:45:SER:H	1.64	0.46
3:AG:103:LYS:H	3:AG:103:LYS:HD2	1.81	0.46
3:AI:97:ASN:O	3:Bd:3:VAL:N	2.44	0.46
2:AM:547:PRO:HD3	2:AN:304:ILE:HB	1.98	0.46
2:AN:239:VAL:HG22	2:AN:280:ALA:HB3	1.98	0.46
2:AP:24:THR:HB	2:AP:483:ASN:OD1	2.16	0.46
2:AP:82:ARG:NH1	2:AP:227:PRO:O	2.47	0.46
6:AV:454:VAL:HG21	7:BE:112:LEU:HD13	1.97	0.46
6:AW:318:LYS:NZ	6:AW:356:GLN:OE1	2.37	0.46
7:Ab:54:ASN:OD1	7:Ab:188:THR:OG1	2.33	0.46
6:Ag:426:ASP:OD2	6:Ag:433:TYR:OH	2.19	0.46
6:Ao:398:GLN:HG2	6:Ao:399:GLY:H	1.81	0.46
6:Ap:337:PRO:HA	6:Ap:340:ILE:HG12	1.98	0.46
7:Ar:159:PRO:HB3	7:Ar:174:GLY:O	2.16	0.46
7:At:12:LEU:O	7:At:16:ILE:HG12	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:At:112:LEU:HD21	7:At:129:TYR:CE2	2.49	0.46
6:Au:236:GLN:HG3	6:BJ:265:GLN:NE2	2.31	0.46
6:Aw:145:HIS:HD2	6:Aw:148:TYR:CD2	2.34	0.46
5:Ax:212:HIS:O	5:Ax:214:SER:N	2.47	0.46
2:B1:557:PHE:HE1	2:Bz:642:PHE:HB3	1.80	0.46
2:B2:105:THR:HB	2:B2:181:VAL:HB	1.98	0.46
2:B5:102:THR:HB	2:B5:183:THR:HB	1.97	0.46
2:B7:351:THR:OG1	2:B7:352:ALA:N	2.48	0.46
5:BG:295:ARG:HA	5:BG:295:ARG:HD3	1.82	0.46
3:Bd:64:ARG:NH2	3:Bg:93:ALA:HB3	2.31	0.46
3:Bl:51:VAL:HG23	3:Bl:58:ILE:HG12	1.98	0.46
2:Bs:514:ARG:NH1	2:Bt:366:GLU:OE2	2.49	0.46
2:Bs:642:PHE:CZ	2:Bt:564:ILE:HD11	2.50	0.46
2:Bu:26:THR:HA	2:Bu:77:ASP:O	2.15	0.46
1:m:147:PHE:HE1	1:m:173:LYS:HD2	1.80	0.46
1:n:176:TYR:HA	8:u:71:ILE:HA	1.98	0.46
8:s:259:VAL:HG12	8:s:260:ASN:H	1.81	0.46
9:v:56:LEU:O	9:x:97:TYR:HB3	2.16	0.46
9:w:15:THR:OG1	9:w:16:ASN:N	2.46	0.46
2:3:498:GLN:HA	2:3:534:VAL:HA	1.98	0.46
3:7:6:VAL:HG13	3:7:7:THR:H	1.80	0.46
3:9:37:LYS:O	3:AA:144:TRP:N	2.46	0.46
5:A0:183:GLN:HB3	5:A0:207:ILE:HG23	1.98	0.46
5:A1:426:LEU:HD13	5:A1:432:ILE:HG21	1.97	0.46
5:A2:278:ARG:HD2	5:BF:283:ARG:HE	1.81	0.46
6:A4:255:ASP:N	6:A4:255:ASP:OD1	2.49	0.46
6:A5:153:MET:HE2	6:A5:189:TYR:CG	2.51	0.46
6:A7:131:TYR:HD2	6:A7:250:MET:HE3	1.80	0.46
6:A8:450:TYR:CE1	6:A8:477:TYR:HB2	2.51	0.46
8:AB:13:TYR:CD2	8:AB:116:MET:HE1	2.51	0.46
2:AK:487:THR:HG21	2:AK:559:MET:HE3	1.98	0.46
2:AM:140:ILE:O	2:AM:141:LYS:NZ	2.47	0.46
2:AO:154:ALA:HA	2:AO:157:VAL:HG22	1.98	0.46
6:AV:216:MET:HE1	6:Ap:430:LYS:HG3	1.98	0.46
6:AX:74:TYR:HA	6:AX:79:ILE:HD11	1.98	0.46
6:AX:344:ARG:HG2	6:AX:345:TRP:H	1.81	0.46
6:AZ:131:TYR:HD2	6:AZ:250:MET:HE3	1.81	0.46
6:AZ:379:SER:OG	6:AZ:432:ASP:OD1	2.30	0.46
6:Ac:107:ILE:HA	6:Ac:412:VAL:HG21	1.98	0.46
6:Ad:367:GLN:HB3	6:Ad:511:ALA:HB1	1.96	0.46
6:Aj:98:MET:HE2	6:An:127:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Al:210:GLN:O	7:Al:210:GLN:NE2	2.49	0.46
6:An:91:ILE:HG13	6:BK:123:GLN:HE22	1.81	0.46
6:Ap:345:TRP:CD1	6:Ap:348:GLU:HG3	2.51	0.46
7:Ar:43:GLU:O	7:Ar:47:GLU:HG2	2.16	0.46
5:Ax:329:SER:O	5:BA:282:ARG:NH2	2.35	0.46
2:B1:131:ILE:HA	2:B1:143:ILE:HG22	1.98	0.46
2:B4:538:ASP:O	2:B4:550:ARG:HA	2.15	0.46
2:B5:30:ALA:HB3	2:B5:359:TRP:CE2	2.51	0.46
2:B6:89:ALA:HA	2:B6:345:SER:HA	1.98	0.46
2:B7:118:VAL:HB	2:B7:126:GLU:HB3	1.98	0.46
2:B7:375:ALA:HB1	2:B7:390:GLN:HG2	1.97	0.46
2:B7:521:ALA:HB1	2:B7:541:ALA:HA	1.97	0.46
5:BF:278:ARG:HH11	5:BG:331:THR:HA	1.80	0.46
5:BG:121:LYS:HB3	5:BG:121:LYS:HE2	1.77	0.46
5:BH:328:MET:HE2	5:BH:328:MET:HB3	1.81	0.46
6:BK:332:PHE:HB3	6:BK:518:VAL:HG12	1.97	0.46
6:BM:314:ALA:HA	6:BM:513:PHE:HB2	1.97	0.46
3:Bf:17:ARG:HH11	3:Bf:118:ARG:HH11	1.63	0.46
3:Bg:37:LYS:HZ2	3:Bg:74:MET:HG2	1.81	0.46
3:Bg:64:ARG:NH1	3:Bj:95:GLN:HG2	2.31	0.46
3:Bn:114:ARG:HB3	3:Bn:123:VAL:HG13	1.96	0.46
2:Bp:379:ALA:HB2	2:Bp:454:TYR:HE2	1.81	0.46
2:Br:130:LYS:HZ3	2:Br:132:THR:HA	1.81	0.46
2:Br:239:VAL:HG22	2:Br:280:ALA:HB3	1.98	0.46
2:Br:420:THR:HG22	2:Br:513:GLN:HE22	1.81	0.46
2:Bs:37:PRO:HG3	2:Bs:226:TYR:CZ	2.51	0.46
2:Bs:414:VAL:HG23	2:Bs:422:ALA:HB1	1.97	0.46
2:Bs:480:ARG:C	2:Bs:482:ASP:H	2.23	0.46
2:Bu:641:ASN:OD1	2:Bu:641:ASN:N	2.49	0.46
2:Bv:41:ILE:HD11	2:Bv:361:PHE:HB3	1.97	0.46
4:f:10:PHE:HB3	4:f:22:ILE:HG12	1.98	0.46
1:m:220:GLU:CD	8:t:46:LYS:HZ1	2.24	0.46
1:n:233:GLU:HG3	1:n:234:PRO:HD2	1.97	0.46
8:q:128:ASP:O	8:q:132:GLN:HG3	2.16	0.46
8:r:142:GLN:O	8:r:143:PRO:C	2.59	0.46
2:1:538:ASP:OD1	2:1:538:ASP:N	2.48	0.45
2:2:413:THR:OG1	2:2:425:ASN:HB3	2.16	0.45
2:3:131:ILE:HD13	2:3:140:ILE:HG21	1.98	0.45
2:4:560:LEU:HD22	2:4:629:ILE:HD13	1.98	0.45
2:4:616:SER:O	2:4:620:ARG:HG2	2.16	0.45
5:A1:461:GLU:HG3	5:BB:465:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A3:45:VAL:HG21	5:A3:187:GLU:HB2	1.98	0.45
6:A7:107:ILE:HD13	6:A7:424:TYR:HB3	1.98	0.45
2:AD:374:ILE:HG23	2:AD:471:ALA:O	2.16	0.45
2:AD:528:THR:HA	2:AN:367:SER:HA	1.97	0.45
2:AK:91:ASN:OD1	2:AK:91:ASN:N	2.49	0.45
2:AL:44:VAL:HG11	2:AL:50:LEU:HB2	1.98	0.45
2:AP:131:ILE:HG12	2:AP:143:ILE:HG22	1.97	0.45
7:Aa:12:LEU:HD12	7:Aa:242:TYR:HD2	1.81	0.45
6:Ac:333:ASP:HB3	6:Ac:336:ASP:HB2	1.97	0.45
6:Ac:345:TRP:HB3	6:Ag:343:ALA:HA	1.97	0.45
6:Ad:350:PHE:HB2	6:Ad:389:VAL:HG11	1.97	0.45
6:Af:261:ALA:HA	6:Af:478:GLY:HA3	1.98	0.45
6:Ai:255:ASP:OD1	6:Ai:255:ASP:N	2.48	0.45
6:Aj:263:SER:O	6:An:228:MET:N	2.43	0.45
6:Ak:515:ARG:NH2	6:Ak:517:TYR:OH	2.37	0.45
6:Am:133:LYS:HB2	6:Am:249:GLU:HG3	1.96	0.45
6:An:378:ALA:HB1	6:An:382:VAL:HB	1.99	0.45
7:Aq:85:THR:HG21	7:Aq:187:TRP:HE1	1.81	0.45
7:Aq:91:ASN:O	7:Aq:94:SER:N	2.48	0.45
7:Ar:104:TYR:CZ	6:Au:120:PRO:HB3	2.51	0.45
7:As:50:PHE:HB3	7:As:302:PRO:HD3	1.97	0.45
6:Au:148:TYR:HA	6:Au:186:GLY:H	1.80	0.45
5:Av:10:ALA:HB3	5:Av:11:PRO:HD3	1.98	0.45
5:Ax:60:THR:O	5:Ax:64:SER:OG	2.29	0.45
2:B1:454:TYR:H	2:B1:506:ALA:HB2	1.79	0.45
2:B1:569:LYS:HG3	2:Bz:494:TYR:CE1	2.51	0.45
2:B4:205:MET:O	2:B4:211:GLN:NE2	2.49	0.45
2:B5:617:VAL:HG22	2:B5:622:GLU:HB2	1.98	0.45
2:B6:222:VAL:HG21	2:B6:238:ILE:HD11	1.99	0.45
2:B7:159:GLU:OE2	2:B7:166:ASN:ND2	2.45	0.45
2:B7:642:PHE:H	2:Br:12:GLU:HA	1.81	0.45
5:BB:458:LYS:O	5:BB:461:GLU:HG3	2.16	0.45
5:BD:70:LYS:HA	5:BD:70:LYS:HD2	1.71	0.45
7:BE:20:LEU:HD23	7:BE:20:LEU:HA	1.80	0.45
5:BH:37:ASP:OD1	5:BH:37:ASP:N	2.48	0.45
6:BI:131:TYR:HA	6:BI:250:MET:HA	1.98	0.45
6:BJ:466:ASN:OD1	6:BJ:466:ASN:N	2.47	0.45
3:BZ:63:ASP:OD1	3:BZ:64:ARG:N	2.44	0.45
3:Ba:61:ALA:HA	3:Bd:133:TRP:CH2	2.51	0.45
2:Bp:315:PHE:HE1	2:Bp:323:ILE:HG13	1.80	0.45
2:Bs:106:PRO:HB3	2:Bs:139:LYS:HZ3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:332:GLU:OE1	2:Bt:332:GLU:N	2.44	0.45
2:Bu:237:GLU:HB3	2:Bu:282:ILE:HG13	1.98	0.45
2:Bv:151:ILE:O	2:Bv:155:LYS:HG2	2.15	0.45
2:By:346:SER:O	2:By:350:VAL:HG23	2.16	0.45
2:By:639:THR:HB	2:Bz:624:VAL:HG12	1.98	0.45
2:Bz:2:THR:OG1	2:Bz:3:LEU:N	2.49	0.45
2:Bz:477:LEU:HD21	2:Bz:497:GLY:HA2	1.97	0.45
1:k:220:GLU:OE2	8:r:46:LYS:NZ	2.41	0.45
1:l:169:ILE:H	1:l:169:ILE:HG12	1.61	0.45
8:q:91:ASN:O	8:q:110:ASN:ND2	2.48	0.45
2:2:317:LYS:HE3	2:2:317:LYS:HB2	1.82	0.45
2:2:372:LEU:HA	2:2:372:LEU:HD12	1.80	0.45
5:A3:210:THR:O	5:A3:224:ALA:HB1	2.16	0.45
7:A6:24:ILE:HG13	7:A1:262:ILE:HD13	1.99	0.45
6:A8:236:GLN:HE21	6:A8:247:TRP:HD1	1.63	0.45
6:A9:279:ARG:NH2	5:Av:227:LYS:HG3	2.31	0.45
8:AB:174:GLU:OE1	8:u:78:HIS:NE2	2.35	0.45
2:AD:91:ASN:N	2:AD:91:ASN:OD1	2.49	0.45
3:AI:94:GLY:HA3	3:AI:100:THR:HG1	1.81	0.45
3:AJ:83:GLN:HA	3:AJ:86:VAL:HG22	1.98	0.45
2:AK:164:GLY:H	2:AK:167:TRP:CD1	2.34	0.45
10:AR:331:ASP:OD1	10:AR:331:ASP:N	2.40	0.45
6:Ae:182:PHE:HB2	6:Ae:184:GLU:O	2.17	0.45
6:Ae:315:GLN:OE1	6:Ae:514:ARG:NH1	2.49	0.45
6:Ag:279:ARG:HD3	6:Ag:285:ASP:HA	1.98	0.45
6:Ah:76:ALA:HB1	6:BI:497:GLN:HA	1.98	0.45
7:As:309:GLY:HA3	5:BB:305:MET:HE3	1.98	0.45
2:B1:57:PRO:HD2	2:B1:461:TYR:HD2	1.81	0.45
2:B2:642:PHE:CZ	2:B3:564:ILE:HD11	2.51	0.45
2:B3:26:THR:HA	2:B3:77:ASP:O	2.16	0.45
2:B3:650:ASP:O	2:B3:653:GLU:HG2	2.16	0.45
2:B4:227:PRO:HB2	2:B4:345:SER:HB3	1.98	0.45
2:B4:237:GLU:OE1	2:B4:284:ARG:NH1	2.42	0.45
2:B4:592:LEU:HD23	2:B4:604:TYR:HB2	1.98	0.45
2:B6:487:THR:HG21	2:B6:559:MET:HE3	1.99	0.45
2:B7:223:VAL:HA	2:B7:340:LEU:HD11	1.98	0.45
2:B7:365:ARG:HB2	2:B7:400:ARG:HG2	1.97	0.45
2:B7:572:LEU:HB3	2:B7:573:PHE:H	1.68	0.45
5:BB:125:MET:O	5:BB:129:GLU:HG2	2.16	0.45
5:BB:366:ARG:HG2	5:BB:380:ILE:HD12	1.99	0.45
5:BB:399:ASP:OD1	5:BB:399:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BE:50:PHE:HB3	7:BE:302:PRO:HD3	1.97	0.45
6:BJ:426:ASP:OD2	6:BJ:433:TYR:OH	2.19	0.45
11:BS:26:LYS:NZ	11:BS:74:ASP:OD1	2.42	0.45
3:BY:118:ARG:N	3:Bb:77:GLU:OE2	2.48	0.45
3:Bd:32:PHE:HZ	3:Bd:71:VAL:HG11	1.80	0.45
3:Bf:16:ALA:HB2	3:Bi:76:ASP:O	2.17	0.45
3:Bf:16:ALA:HB3	3:Bi:151:GLN:HB2	1.98	0.45
3:Bk:59:ASN:ND2	3:Bn:159:LEU:O	2.49	0.45
2:Br:406:LEU:HD13	2:Br:475:ALA:HB2	1.98	0.45
2:Bt:351:THR:OG1	2:Bt:352:ALA:N	2.49	0.45
2:Bu:244:TYR:CZ	2:Bu:266:LYS:HD2	2.51	0.45
2:Bv:526:THR:OG1	2:Bv:527:GLY:N	2.48	0.45
1:m:60:TYR:OH	1:m:136:ASP:OD2	2.30	0.45
1:m:202:ASN:HA	1:m:205:ARG:HE	1.81	0.45
1:p:147:PHE:HD2	1:p:172:GLY:O	2.00	0.45
2:1:94:PRO:HB2	2:1:219:ILE:HD12	1.97	0.45
2:3:373:PHE:HB2	2:3:405:VAL:HG22	1.99	0.45
3:7:54:MET:C	3:7:56:ARG:H	2.22	0.45
4:A:26:LYS:HA	4:Q:34:ALA:HB3	1.98	0.45
5:A0:278:ARG:HD2	5:BH:283:ARG:HH21	1.81	0.45
5:A2:292:MET:O	5:A2:294:ALA:N	2.45	0.45
6:A7:107:ILE:HG21	6:A7:424:TYR:HB3	1.98	0.45
6:A7:362:VAL:HG21	6:AW:384:ASN:HD21	1.81	0.45
6:A7:521:ILE:O	6:A8:341:ARG:NH2	2.49	0.45
6:A8:426:ASP:OD2	6:A8:433:TYR:OH	2.29	0.45
2:AK:550:ARG:HB3	2:AK:553:VAL:HG12	1.97	0.45
2:AN:642:PHE:CZ	2:B2:564:ILE:HD11	2.50	0.45
2:AP:455:LYS:NZ	2:AP:457:GLN:OE1	2.49	0.45
6:AV:263:SER:HA	6:AV:476:ARG:HA	1.98	0.45
6:AV:274:LEU:HD13	6:Am:69:GLY:HA2	1.98	0.45
6:AZ:350:PHE:HB3	6:AZ:389:VAL:HG21	1.98	0.45
6:Ad:309:TRP:HZ2	6:Ah:226:GLU:HB3	1.82	0.45
6:Ae:481:ILE:HG13	6:Ae:499:GLY:O	2.16	0.45
6:Aj:134:ASP:HB3	6:Aj:137:ALA:HB2	1.98	0.45
6:Ak:344:ARG:H	6:Ak:344:ARG:NE	2.15	0.45
6:Ao:450:TYR:HE1	6:Ao:477:TYR:HB2	1.81	0.45
6:Ap:390:ASP:OD1	6:Ap:391:THR:N	2.49	0.45
6:Au:317:GLY:HA2	6:Au:514:ARG:HE	1.81	0.45
2:B1:332:GLU:H	2:B1:332:GLU:CD	2.24	0.45
2:B1:455:LYS:HD2	2:B1:502:VAL:HG22	1.98	0.45
2:B1:510:ARG:HG2	2:B1:511:GLN:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:250:ALA:HB3	2:B3:263:SER:OG	2.17	0.45
2:B5:430:ARG:HG3	2:B5:522:ILE:HD11	1.98	0.45
5:BA:125:MET:HB3	5:BA:431:ILE:HD13	1.99	0.45
7:BE:58:HIS:ND1	7:BE:186:SER:OG	2.49	0.45
5:BF:494:THR:O	5:BF:498:ILE:HG12	2.16	0.45
6:BJ:204:ASP:OD1	6:BJ:205:ALA:N	2.50	0.45
11:BN:64:GLN:O	11:BN:66:THR:N	2.50	0.45
3:BY:41:LEU:HD13	3:Bb:140:LEU:HD23	1.97	0.45
3:Be:1:MET:SD	3:Bh:22:GLN:NE2	2.89	0.45
3:Bf:124:THR:HB	3:Bi:78:ALA:HA	1.97	0.45
3:Bm:1:MET:HE2	3:Bm:1:MET:HB3	1.81	0.45
2:Bp:22:ASN:HB2	2:Bp:76:ASN:HD21	1.80	0.45
2:Bp:97:GLY:O	2:Bp:147:THR:OG1	2.24	0.45
2:Bq:365:ARG:HA	2:Bq:400:ARG:NH2	2.31	0.45
2:Bv:157:VAL:HG23	2:Bv:159:GLU:H	1.81	0.45
2:Bw:394:VAL:HG11	2:Bw:443:ILE:HD12	1.99	0.45
2:Bz:134:VAL:HG12	2:Bz:140:ILE:HG22	1.98	0.45
2:Bz:539:LYS:HD3	2:Bz:550:ARG:HH21	1.81	0.45
1:l:152:VAL:HG13	1:l:169:ILE:HD13	1.98	0.45
1:l:177:SER:HB2	1:l:207:LEU:HB3	1.96	0.45
1:m:239:ASN:N	1:m:239:ASN:OD1	2.49	0.45
8:r:162:ASP:OD1	8:r:162:ASP:N	2.49	0.45
8:r:165:ILE:HG23	8:r:194:VAL:HG22	1.99	0.45
2:1:51:VAL:HG22	2:1:65:PHE:HZ	1.82	0.45
2:4:132:THR:HB	2:4:142:LYS:HB3	1.98	0.45
2:4:554:ARG:NH1	8:t:231:GLU:OE2	2.47	0.45
3:6:79:HIS:CE1	3:o:115:GLN:HG2	2.52	0.45
5:A0:41:ARG:HG3	5:A0:183:GLN:NE2	2.31	0.45
5:A0:80:ARG:NH2	5:A0:153:ASP:OD2	2.50	0.45
5:A1:338:ARG:NH2	5:BB:346:GLU:OE1	2.49	0.45
5:A3:282:ARG:HA	5:BF:278:ARG:NH2	2.31	0.45
7:A6:112:LEU:HD21	7:A6:131:PRO:HG3	1.98	0.45
6:A9:133:LYS:HG2	6:A9:249:GLU:HB3	1.99	0.45
9:AC:64:VAL:O	9:AC:65:THR:OG1	2.34	0.45
2:AP:498:GLN:HA	2:AP:534:VAL:HG12	1.98	0.45
10:AT:318:MET:HE1	10:AT:328:ASP:HB3	1.98	0.45
6:AV:149:GLY:H	6:AV:186:GLY:HA2	1.81	0.45
7:Ab:59:VAL:HG12	7:Ab:183:ILE:HG12	1.97	0.45
6:Ac:448:ILE:HD11	6:Ac:479:ILE:HD12	1.99	0.45
6:Ae:74:TYR:CE2	6:Ai:260:GLU:HG2	2.52	0.45
6:Aj:164:PRO:HG2	6:Aj:178:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ak:72:HIS:ND1	6:Ao:260:GLU:OE2	2.48	0.45
6:Am:305:GLU:OE1	6:Am:477:TYR:OH	2.23	0.45
6:Ao:374:ASN:ND2	6:Ao:439:LYS:O	2.34	0.45
6:Ao:382:VAL:HG22	6:Ao:518:VAL:HG21	1.99	0.45
6:Au:238:GLY:HA2	6:Au:242:SER:O	2.17	0.45
6:Ay:448:ILE:HD11	6:Ay:479:ILE:HD11	1.98	0.45
2:B3:91:ASN:OD1	2:B3:91:ASN:N	2.50	0.45
2:B3:209:ASP:OD1	2:B3:209:ASP:N	2.49	0.45
2:B6:456:TYR:O	2:B6:503:ILE:HG12	2.17	0.45
2:B7:104:SER:HB2	2:B7:181:VAL:HB	1.98	0.45
5:BA:76:ILE:HD13	5:BA:179:PRO:HB2	1.98	0.45
5:BH:153:ASP:OD1	5:BH:153:ASP:N	2.50	0.45
5:BH:157:PHE:HB2	5:BH:177:LEU:HB2	1.99	0.45
6:BJ:336:ASP:HB3	6:BJ:339:ASP:HB2	1.98	0.45
11:BU:11:LYS:HG3	11:BU:27:GLU:HG2	1.99	0.45
3:Bi:143:ASP:OD1	3:Bi:144:TRP:N	2.50	0.45
3:Bm:11:GLU:OE1	2:Bp:486:GLN:NE2	2.46	0.45
2:Bq:69:MET:O	2:Bq:73:GLN:HG2	2.15	0.45
2:Br:412:GLU:N	2:Br:412:GLU:OE1	2.48	0.45
2:Bs:355:LEU:HD12	2:Bs:389:VAL:HG21	1.97	0.45
2:Bt:72:LEU:HD12	2:Bt:72:LEU:HA	1.82	0.45
2:By:89:ALA:HA	2:By:345:SER:HA	1.97	0.45
2:By:462:ASN:OD1	2:By:466:ARG:NH1	2.44	0.45
2:By:487:THR:HG21	2:By:559:MET:HE3	1.98	0.45
2:By:635:ILE:HD11	2:Bz:576:ASN:ND2	2.30	0.45
2:By:637:TYR:HB2	2:Bz:622:GLU:HG2	1.99	0.45
1:k:235:TYR:OH	8:r:19:ASP:OD2	2.28	0.45
1:l:235:TYR:OH	8:s:19:ASP:OD2	2.31	0.45
1:m:44:ASP:HB2	1:m:163:GLN:HE22	1.81	0.45
3:o:39:THR:HG1	3:o:69:TRP:NE1	2.15	0.45
8:t:257:SER:O	8:t:259:VAL:N	2.46	0.45
9:z:5:LEU:H	9:z:5:LEU:HD12	1.80	0.45
2:1:467:TRP:HZ3	2:AO:199:GLU:HB2	1.82	0.45
2:3:576:ASN:HB3	2:3:618:ILE:HG13	1.98	0.45
2:4:69:MET:O	2:4:73:GLN:HG2	2.17	0.45
3:7:161:TYR:CZ	3:8:97:ASN:HB2	2.52	0.45
5:A0:501:GLU:OE2	5:BG:482:SER:N	2.30	0.45
5:A2:399:ASP:OD1	5:A2:399:ASP:N	2.48	0.45
5:A3:223:GLU:CD	5:A3:224:ALA:H	2.22	0.45
5:A3:377:LEU:HD13	5:A3:377:LEU:HA	1.78	0.45
6:A4:247:TRP:CD1	6:A9:265:GLN:HG2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:435:THR:HG23	6:A5:515:ARG:HB3	1.97	0.45
6:A8:494:SER:HA	11:BS:37:ASP:CG	2.42	0.45
8:AB:262:PRO:HD3	8:AB:271:ARG:HG2	1.99	0.45
2:AD:51:VAL:HG21	2:AD:461:TYR:CZ	2.51	0.45
2:AK:302:LYS:O	2:AK:307:SER:N	2.50	0.45
2:AM:406:LEU:HD13	2:AM:475:ALA:HB2	1.98	0.45
6:AX:96:MET:HB2	6:Az:123:GLN:O	2.15	0.45
6:Ac:108:ALA:O	6:Ac:110:ASP:N	2.47	0.45
6:Ad:430:LYS:HG2	6:Ah:216:MET:HE1	1.98	0.45
6:Ai:380:ARG:HB3	6:Am:362:VAL:HG11	1.99	0.45
6:Ak:304:ARG:HD3	6:Ak:428:TYR:HD2	1.81	0.45
7:Al:55:LYS:HE2	7:BE:162:TRP:CD1	2.52	0.45
6:An:430:LYS:HD3	6:An:430:LYS:HA	1.81	0.45
7:As:163:PHE:HA	7:As:170:LEU:HA	1.98	0.45
6:Au:133:LYS:HA	6:Au:249:GLU:HB2	1.97	0.45
2:B1:33:PHE:HB2	2:B1:82:ARG:HG3	1.99	0.45
2:B1:100:GLU:HA	2:B1:217:TYR:HE1	1.80	0.45
2:B4:383:LEU:HD11	2:B4:436:TYR:HE2	1.81	0.45
2:B5:92:SER:HB3	2:B5:340:LEU:HB3	1.98	0.45
11:BU:9:ASN:HB3	11:BU:56:TYR:CE2	2.51	0.45
3:Bh:67:ASP:OD1	3:Bh:67:ASP:N	2.47	0.45
3:Bi:114:ARG:HB3	3:Bi:123:VAL:HG13	1.97	0.45
3:Bn:24:GLU:OE2	3:Bn:33:THR:OG1	2.34	0.45
2:Bp:247:GLY:HA2	2:Bp:266:LYS:HD3	1.98	0.45
2:Bs:566:ARG:HA	2:Bs:569:LYS:HB3	1.98	0.45
2:Bu:375:ALA:HB3	2:Bu:407:CYS:HB3	1.97	0.45
2:Bv:254:ILE:HG13	2:Bv:337:ILE:HB	1.99	0.45
2:Bw:32:LYS:HE2	2:Bw:350:VAL:HG11	1.97	0.45
2:By:254:ILE:HG13	2:By:337:ILE:HB	1.98	0.45
2:Bz:110:TYR:CE1	2:Bz:171:ILE:HD12	2.52	0.45
4:C:2:ASP:OD1	4:C:3:ILE:N	2.50	0.45
1:0:126:GLN:O	1:0:188:ASN:ND2	2.49	0.45
2:4:417:ILE:HD13	2:4:417:ILE:H	1.81	0.45
2:4:575:LEU:HD11	8:t:97:LEU:HD21	1.99	0.45
2:5:304:ILE:HG13	2:5:305:TYR:H	1.81	0.45
3:8:147:ASN:HB3	9:v:45:PRO:HG3	1.99	0.45
5:A2:397:THR:OG1	5:A2:399:ASP:OD1	2.27	0.45
6:A5:128:ARG:NH1	6:A5:490:GLN:O	2.50	0.45
6:A5:244:ASP:HB2	11:BT:13:PHE:HE2	1.81	0.45
6:A8:301:GLU:OE1	6:A9:155:SER:OG	2.33	0.45
8:AB:71:ILE:HG23	1:p:176:TYR:HD1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:291:GLN:HE22	2:AD:320:SER:HB2	1.81	0.45
3:AE:125:LYS:HD3	3:AE:125:LYS:HA	1.46	0.45
2:AK:560:LEU:O	2:AK:564:ILE:HG12	2.15	0.45
2:AM:159:GLU:O	2:AM:162:THR:N	2.50	0.45
6:AV:69:GLY:HA2	6:Am:274:LEU:HD13	1.99	0.45
6:AW:123:GLN:HB3	6:AW:258:VAL:HG12	1.99	0.45
6:AX:484:PHE:O	6:AX:487:SER:OG	2.32	0.45
7:AY:53:LEU:HD11	7:AY:82:PHE:HB3	1.99	0.45
6:Ac:184:GLU:O	6:Ac:185:THR:OG1	2.29	0.45
6:Ae:101:ARG:HD2	6:Ai:146:PRO:HD3	1.97	0.45
6:Ae:259:ILE:HA	6:Ae:500:MET:HE2	1.99	0.45
6:Af:176:ASP:OD1	6:Af:177:ILE:N	2.46	0.45
6:Ai:345:TRP:CD1	6:Ai:346:ALA:H	2.34	0.45
6:Ai:426:ASP:HB3	6:Ai:429:ALA:HB2	1.97	0.45
6:Aj:154:PHE:CE2	6:Aj:248:ASN:HB3	2.52	0.45
6:Am:250:MET:HE2	6:Am:250:MET:HB3	1.87	0.45
6:Ao:452:PRO:HA	6:Ao:477:TYR:HA	1.97	0.45
7:Ar:87:ILE:HD13	7:Ar:158:ILE:HB	1.98	0.45
7:At:301:ASP:OD2	5:BA:339:ARG:NH1	2.50	0.45
6:Au:344:ARG:HE	6:BJ:345:TRP:NE1	2.13	0.45
5:Av:136:HIS:NE2	5:Av:171:ILE:O	2.49	0.45
6:Aw:494:SER:C	6:Aw:496:ILE:H	2.24	0.45
5:Ax:86:TYR:C	5:Ax:88:VAL:H	2.24	0.45
2:B1:419:VAL:HG22	2:B1:507:ILE:HB	1.99	0.45
2:B3:112:VAL:HG13	2:B3:134:VAL:HG22	1.99	0.45
2:B3:311:ILE:HB	2:B3:327:ALA:HB2	1.99	0.45
2:B3:409:PRO:O	2:B3:454:TYR:OH	2.33	0.45
2:B4:251:LEU:HB3	2:B4:260:THR:HB	1.99	0.45
2:B5:496:ARG:NH2	2:B6:573:PHE:O	2.49	0.45
2:B5:521:ALA:HB1	2:B5:541:ALA:HA	1.99	0.45
2:B6:628:TYR:OH	2:Bp:15:VAL:O	2.34	0.45
2:B7:66:MET:HG2	2:B7:468:VAL:HG11	1.98	0.45
7:BC:30:THR:C	7:BC:32:ASP:H	2.25	0.45
5:BD:254:LEU:O	5:BD:258:VAL:HG23	2.16	0.45
5:BF:211:ALA:HB2	5:BF:225:GLY:HA3	1.98	0.45
5:BG:161:ILE:HB	5:BG:173:GLU:HB3	1.98	0.45
5:BG:207:ILE:HD12	5:BG:228:ILE:O	2.17	0.45
5:BG:457:LEU:HD12	5:BG:457:LEU:HA	1.86	0.45
5:BH:44:GLU:HA	5:BH:188:ILE:O	2.16	0.45
6:BJ:378:ALA:HB1	6:BJ:382:VAL:HB	1.98	0.45
3:Ba:98:GLU:HA	3:Bn:2:PHE:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bg:114:ARG:HG2	3:Bg:126:GLU:HG2	1.97	0.45
3:Bi:24:GLU:OE1	3:Bi:33:THR:OG1	2.35	0.45
3:Bk:28:LEU:HD22	3:Bk:84:LYS:HB3	1.99	0.45
3:Bk:90:SER:HA	3:Bk:94:GLY:H	1.81	0.45
3:Bl:41:LEU:N	3:Bo:140:LEU:O	2.40	0.45
2:Bq:110:TYR:CD1	2:Bq:177:GLY:HA3	2.52	0.45
2:Bq:510:ARG:HG2	2:Bq:511:GLN:H	1.82	0.45
2:Bs:57:PRO:HG3	2:Bs:65:PHE:CD1	2.52	0.45
2:Bt:195:LEU:HD23	2:Bt:195:LEU:H	1.82	0.45
2:Bu:152:ALA:O	2:Bu:156:GLU:HG2	2.17	0.45
2:Bv:57:PRO:HB2	2:Bv:62:ALA:HA	1.99	0.45
2:Bw:101:TYR:CZ	2:Bw:143:ILE:HG12	2.52	0.45
2:By:406:LEU:HD13	2:By:475:ALA:HB2	1.99	0.45
1:k:70:LEU:O	8:q:46:LYS:NZ	2.40	0.45
1:l:27:LEU:HD23	1:l:27:LEU:HA	1.80	0.45
1:m:86:PHE:CE2	1:m:88:ALA:HB2	2.51	0.45
8:u:72:LEU:HD12	8:u:125:ARG:HB2	1.98	0.45
9:x:139:SER:HB3	9:x:156:THR:H	1.82	0.45
2:2:451:ASP:OD1	2:2:452:GLY:N	2.39	0.45
2:3:538:ASP:OD1	2:3:538:ASP:N	2.48	0.45
3:7:37:LYS:NZ	3:7:152:THR:HG21	2.31	0.45
3:9:104:PRO:HA	3:9:107:TYR:CE2	2.52	0.45
6:A4:133:LYS:HG2	6:A4:249:GLU:HB2	1.98	0.45
6:A4:496:ILE:HG12	6:A9:76:ALA:HB1	1.97	0.45
6:A5:71:ASP:OD1	6:A5:72:HIS:N	2.50	0.45
7:A6:69:TYR:CD1	7:A6:177:GLN:HA	2.51	0.45
7:A6:85:THR:OG1	7:A6:187:TRP:NE1	2.49	0.45
7:A6:187:TRP:CE2	5:BF:295:ARG:HD2	2.52	0.45
6:A7:344:ARG:H	6:A7:344:ARG:HD3	1.81	0.45
6:A8:503:ILE:HG13	6:A8:507:LEU:HD13	1.98	0.45
3:AG:113:VAL:HG13	3:AG:127:ILE:HG12	1.99	0.45
3:AJ:103:LYS:NZ	3:Bm:77:GLU:OE1	2.43	0.45
2:AK:429:TRP:CZ2	2:AK:441:PHE:HB2	2.52	0.45
2:AK:432:ALA:HB2	2:AK:440:ASN:HD22	1.82	0.45
2:AN:373:PHE:HB2	2:AN:405:VAL:HG22	1.97	0.45
6:AW:74:TYR:HA	6:AW:79:ILE:HD11	1.99	0.45
6:AZ:117:MET:HB3	6:AZ:119:SER:O	2.16	0.45
7:Ab:230:VAL:HB	7:Ab:233:GLN:HG2	1.97	0.45
6:Ac:380:ARG:HH21	6:Ag:366:ARG:HH11	1.64	0.45
6:Af:131:TYR:HB2	6:Af:154:PHE:CZ	2.52	0.45
6:Ag:151:ASP:HB3	6:Ag:154:PHE:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Aj:365:ALA:HB2	6:Aj:372:GLU:HA	1.98	0.45
6:An:123:GLN:HB3	6:An:258:VAL:HG12	1.99	0.45
6:Aw:145:HIS:ND1	6:Aw:146:PRO:HD2	2.32	0.45
6:Az:106:LEU:HB3	6:Az:303:ASN:ND2	2.32	0.45
2:B1:278:GLN:HG2	2:B1:296:SER:HB3	1.98	0.45
2:B1:636:ASN:OD1	2:B1:636:ASN:N	2.49	0.45
2:B2:593:GLN:NE2	3:Bg:4:ASP:OD2	2.43	0.45
2:B3:644:ALA:O	2:B3:645:THR:OG1	2.34	0.45
2:B5:498:GLN:HG2	2:B5:534:VAL:HG12	1.99	0.45
7:BC:36:ASP:OD2	7:BE:18:ARG:NH1	2.48	0.45
5:BH:157:PHE:HB3	5:BH:177:LEU:HD12	1.99	0.45
5:BH:383:ASP:N	5:BH:383:ASP:OD1	2.50	0.45
6:BK:121:THR:HG22	6:BK:260:GLU:HG3	1.99	0.45
3:BZ:17:ARG:O	3:Bc:151:GLN:NE2	2.50	0.45
3:Bf:10:PHE:HD2	3:Bf:13:GLY:HA2	1.82	0.45
3:Bh:120:ALA:HB2	3:Bj:99:ILE:O	2.16	0.45
3:Bi:3:VAL:HG12	3:Bn:97:ASN:HA	1.98	0.45
3:Bn:37:LYS:NZ	3:Bn:152:THR:OG1	2.46	0.45
2:Bp:302:LYS:HD2	2:Bp:306:ASP:HA	1.98	0.45
2:Bx:46:ASN:OD1	2:Bx:47:GLU:N	2.50	0.45
2:Bx:110:TYR:H	2:Bx:138:GLY:HA3	1.82	0.45
2:Bx:456:TYR:HB3	2:Bx:503:ILE:HG23	1.99	0.45
4:D:48:THR:HG21	4:I:47:PRO:HB2	1.99	0.45
4:M:44:MET:HG2	4:O:44:MET:HE1	1.97	0.45
1:n:223:GLN:NE2	1:p:69:ASP:OD1	2.48	0.45
1:p:198:GLU:O	1:p:205:ARG:NH2	2.50	0.45
8:r:60:ASN:OD1	8:r:60:ASN:N	2.50	0.45
1:0:144:ASN:O	1:0:144:ASN:ND2	2.50	0.45
1:0:245:PHE:CE1	8:q:38:ARG:HD3	2.51	0.45
2:4:413:THR:OG1	2:4:425:ASN:HB3	2.17	0.45
3:8:125:LYS:HG2	3:9:79:HIS:CG	2.52	0.45
5:A1:335:TRP:HB2	7:As:307:LEU:HB2	1.98	0.45
5:A3:30:SER:HB2	5:BG:161:ILE:HD11	1.99	0.45
5:A3:440:GLU:OE1	5:A3:443:ASN:ND2	2.34	0.45
6:A4:249:GLU:HG2	6:A9:267:LYS:HG3	1.99	0.45
6:A7:91:ILE:HA	6:Ay:125:PHE:HZ	1.81	0.45
6:A9:183:GLN:N	6:A9:209:ASP:OD2	2.40	0.45
6:A9:476:ARG:NH1	7:Aa:105:PRO:HD3	2.32	0.45
9:AC:15:THR:O	9:AC:17:PHE:HD1	2.00	0.45
2:AD:237:GLU:OE1	2:AD:284:ARG:NH1	2.48	0.45
2:AD:550:ARG:HB3	2:AD:553:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:90:SER:HA	3:AE:94:GLY:H	1.82	0.45
3:AG:55:ASN:HA	3:Bg:19:ASN:HD22	1.82	0.45
2:AN:234:ILE:HB	2:AN:340:LEU:HD12	1.99	0.45
2:AN:556:LEU:HD23	2:AN:560:LEU:HD13	1.98	0.45
2:AO:368:VAL:HG12	2:AO:370:VAL:HG22	1.99	0.45
10:AR:307:CYS:HB2	10:AR:312:MET:HE2	1.99	0.45
6:AW:127:LEU:HD12	6:AW:254:ILE:HD11	1.99	0.45
6:AX:312:TYR:CE2	6:AX:507:LEU:HD12	2.52	0.45
6:Af:211:GLU:OE2	6:Af:215:GLN:NE2	2.38	0.45
6:Ag:284:MET:HE1	6:Ak:127:LEU:HD13	1.97	0.45
6:Aj:301:GLU:HG2	6:An:152:ALA:HA	1.99	0.45
6:Ak:72:HIS:C	6:Ak:74:TYR:H	2.25	0.45
6:Ak:376:ILE:HG12	6:Ak:436:VAL:HG22	1.99	0.45
7:Aq:43:GLU:HG2	7:As:245:ARG:HB2	1.98	0.45
7:Aq:154:MET:HE3	7:Aq:154:MET:HB3	1.76	0.45
7:Aq:160:ASP:OD1	7:Aq:160:ASP:N	2.38	0.45
7:Aq:163:PHE:HA	7:Aq:170:LEU:HA	1.98	0.45
7:Aq:189:LYS:H	7:Aq:189:LYS:HG2	1.54	0.45
6:Au:387:ALA:HB2	6:Au:404:PHE:HB2	1.97	0.45
6:Aw:244:ASP:O	6:Aw:245:ASN:C	2.59	0.45
6:Az:452:PRO:HA	6:Az:477:TYR:HA	1.99	0.45
2:B4:222:VAL:HG21	2:B4:238:ILE:HD11	1.99	0.45
2:B5:652:ASP:HB3	2:Bp:458:TYR:CE2	2.52	0.45
2:B7:391:LYS:HG2	2:B7:443:ILE:HD13	1.99	0.45
6:BI:153:MET:HB2	6:BI:189:TYR:CE2	2.52	0.45
6:BJ:105:ASN:ND2	6:BJ:409:THR:O	2.46	0.45
6:BJ:404:PHE:HZ	6:BJ:417:LEU:HA	1.81	0.45
7:BL:128:PHE:N	7:BL:128:PHE:CD1	2.85	0.45
11:BP:12:THR:HG22	11:BP:46:TYR:HB3	1.99	0.45
3:BX:30:GLN:O	3:BX:30:GLN:NE2	2.48	0.45
3:Be:16:ALA:HB1	3:Be:115:GLN:HE22	1.82	0.45
3:Bf:43:ALA:HB2	3:Bi:139:GLU:H	1.82	0.45
3:Bh:14:ASP:N	3:Bh:14:ASP:OD1	2.48	0.45
3:Bj:82:ARG:O	3:Bj:86:VAL:HG13	2.17	0.45
2:Bp:28:ALA:HB1	2:Bp:362:PHE:CE2	2.52	0.45
2:Bp:70:ASN:OD1	2:Bp:457:GLN:NE2	2.47	0.45
2:Bq:82:ARG:NH1	2:Bq:227:PRO:O	2.45	0.45
2:Bq:148:ALA:HB2	2:Bq:258:GLY:HA3	1.99	0.45
2:Br:653:GLU:HB2	2:Bu:16:GLN:HA	1.98	0.45
2:Bt:104:SER:OG	2:Bt:183:THR:OG1	2.32	0.45
2:By:92:SER:HB3	2:By:340:LEU:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bz:234:ILE:HB	2:Bz:340:LEU:HD12	1.99	0.45
2:Bz:478:CYS:O	2:Bz:555:ARG:NH1	2.47	0.45
4:W:23:SER:HB3	4:W:46:ARG:HE	1.82	0.45
4:Y:54:ASN:HB3	4:i:55:VAL:HG11	1.99	0.45
1:n:152:VAL:HG13	1:n:169:ILE:HD13	1.98	0.45
8:q:27:LYS:HG3	8:q:36:PHE:HE1	1.82	0.45
8:t:236:GLU:HG3	8:t:237:VAL:N	2.32	0.45
8:t:238:VAL:HG13	8:t:239:PRO:HD2	1.99	0.45
9:w:106:LYS:HG3	9:w:107:THR:HG23	1.98	0.45
2:4:413:THR:HG23	2:4:414:VAL:HG23	1.97	0.45
2:5:538:ASP:N	2:5:538:ASP:OD1	2.49	0.45
5:A0:7:SER:OG	5:A0:8:LEU:N	2.49	0.45
5:A2:215:TYR:CD2	5:A2:219:GLY:HA2	2.52	0.45
6:A7:88:VAL:HG11	6:Au:278:LEU:HD21	1.99	0.45
6:A7:176:ASP:OD1	6:A7:177:ILE:N	2.50	0.45
3:AA:114:ARG:HB3	3:AA:123:VAL:HG13	1.99	0.45
2:AK:90:LYS:NZ	2:AK:190:ASP:OD1	2.48	0.45
2:AK:438:ASP:OD1	2:AK:438:ASP:N	2.48	0.45
10:AQ:313:ASP:OD2	10:AQ:357:ARG:NH2	2.50	0.45
10:AR:299:HIS:CE1	6:Ag:328:LYS:HE2	2.51	0.45
6:AV:354:LEU:HD22	6:Ap:400:LEU:HD21	1.99	0.45
6:AW:324:THR:OG1	6:AW:327:SER:HB2	2.16	0.45
6:AZ:380:ARG:NH2	6:AZ:427:GLN:HB2	2.32	0.45
6:Ae:236:GLN:HG3	6:Ay:265:GLN:NE2	2.31	0.45
6:Af:131:TYR:HB3	6:Af:250:MET:HG2	1.98	0.45
6:Am:265:GLN:HG3	6:BJ:247:TRP:HE1	1.81	0.45
6:An:133:LYS:HG2	6:An:249:GLU:HB2	1.98	0.45
6:An:367:GLN:HB3	6:An:511:ALA:HB1	1.98	0.45
6:Au:365:ALA:HB2	6:Au:372:GLU:HA	1.99	0.45
5:Av:114:ASP:N	5:Av:114:ASP:OD1	2.49	0.45
5:Av:462:ILE:HG13	5:BB:453:TYR:CG	2.52	0.45
2:B1:418:PRO:HD2	2:B1:421:ARG:NH1	2.32	0.45
2:B3:406:LEU:HD13	2:B3:475:ALA:HB2	1.99	0.45
2:B4:151:ILE:O	2:B4:155:LYS:HG2	2.17	0.45
2:B5:410:PRO:O	2:B5:413:THR:HG22	2.16	0.45
5:BB:401:LEU:O	5:BB:405:LYS:HG2	2.16	0.45
7:BC:2:SER:OG	7:BC:3:GLY:N	2.48	0.45
5:BF:125:MET:O	5:BF:129:GLU:HG2	2.17	0.45
5:BF:259:LYS:HB3	5:BF:260:PRO:HD3	1.99	0.45
5:BG:171:ILE:HD13	5:BG:171:ILE:H	1.82	0.45
6:BI:430:LYS:HA	6:BI:430:LYS:HD3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BM:131:TYR:CZ	6:BM:143:ALA:HA	2.52	0.45
11:BR:29:SER:HB2	11:BR:59:VAL:HG22	1.98	0.45
11:BS:9:ASN:HB3	11:BS:56:TYR:CE2	2.52	0.45
3:BX:17:ARG:HG3	3:BX:20:LEU:HD12	1.99	0.45
3:BX:72:THR:HG22	3:BX:154:GLU:HG3	1.98	0.45
3:BY:80:ASP:O	3:BY:84:LYS:HG3	2.17	0.45
3:Bd:64:ARG:NH1	3:Bg:95:GLN:OE1	2.50	0.45
3:Bg:104:PRO:HA	3:Bg:107:TYR:CZ	2.52	0.45
3:Bj:82:ARG:HH12	3:Bj:138:GLY:HA2	1.82	0.45
2:Bp:373:PHE:HB2	2:Bp:405:VAL:HG22	1.99	0.45
2:Br:509:THR:HB	2:Br:513:GLN:HB2	1.99	0.45
2:Bs:84:VAL:HG13	2:Bs:346:SER:HB3	1.98	0.45
2:Bt:446:THR:OG1	2:Bt:554:ARG:NH2	2.50	0.45
2:Bu:332:GLU:CD	2:Bu:332:GLU:H	2.25	0.45
2:Bv:72:LEU:HD13	2:Bv:72:LEU:HA	1.85	0.45
2:By:351:THR:OG1	2:By:352:ALA:N	2.50	0.45
2:Bz:334:PHE:HZ	2:Bz:338:LEU:HD21	1.81	0.45
4:X:62:ILE:HD11	4:c:62:ILE:HG13	1.98	0.45
1:p:60:TYR:HB2	1:p:86:PHE:CD1	2.52	0.45
8:q:56:TRP:HB3	8:q:65:VAL:HG21	1.99	0.45
8:r:147:THR:HG23	8:r:163:ILE:HG12	1.98	0.45
8:t:198:MET:SD	8:u:135:GLU:HG2	2.57	0.45
9:x:42:ILE:HD11	9:y:138:LEU:HD23	1.99	0.45
2:1:33:PHE:HD2	2:1:82:ARG:HG3	1.81	0.45
2:1:157:VAL:HG23	2:1:159:GLU:H	1.82	0.45
2:1:374:ILE:HG23	2:1:471:ALA:O	2.17	0.45
2:1:644:ALA:HA	2:AO:557:PHE:HZ	1.81	0.45
2:2:374:ILE:HG23	2:2:471:ALA:O	2.17	0.45
2:5:39:PHE:HD2	2:5:361:PHE:HE1	1.65	0.45
2:5:411:ARG:HG3	2:5:415:VAL:HG21	1.98	0.45
3:8:23:VAL:HG13	3:8:36:CYS:SG	2.57	0.45
5:A2:160:LYS:HA	5:A2:174:LEU:HD23	1.99	0.45
6:A4:432:ASP:HB3	6:A4:518:VAL:HG23	1.99	0.45
7:A6:257:GLU:OE1	7:A6:290:LYS:NZ	2.46	0.45
6:A7:115:GLN:NE2	6:A7:444:MET:SD	2.90	0.45
9:AC:119:ASN:HB2	9:v:79:GLU:HG3	1.98	0.45
2:AD:100:GLU:HB3	2:AD:188:ILE:HD11	1.99	0.45
3:AH:136:ASN:ND2	3:AH:136:ASN:O	2.49	0.45
3:AJ:90:SER:HA	3:AJ:94:GLY:H	1.82	0.45
2:AK:596:LYS:HG2	2:AK:601:ILE:O	2.17	0.45
2:AL:378:CYS:SG	2:AL:454:TYR:OH	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:410:PRO:O	2:AM:413:THR:HG22	2.17	0.45
2:AN:57:PRO:HA	2:AN:61:THR:HB	1.99	0.45
2:AN:110:TYR:H	2:AN:138:GLY:HA3	1.81	0.45
2:AO:455:LYS:HB3	2:AO:470:LEU:HD11	1.98	0.45
2:AP:99:ILE:HD13	2:AP:184:LEU:HD22	1.99	0.45
2:AP:118:VAL:H	2:AP:126:GLU:HB3	1.81	0.45
2:AP:332:GLU:OE1	2:AP:332:GLU:N	2.37	0.45
2:AP:391:LYS:HG2	2:AP:443:ILE:HD13	1.98	0.45
6:AV:437:GLY:HA2	6:AV:512:TYR:O	2.17	0.45
6:AX:348:GLU:HB3	6:AX:396:ALA:HB2	1.99	0.45
7:AY:217:GLU:HB3	7:AY:224:HIS:HD2	1.80	0.45
6:AZ:363:GLU:OE2	6:AZ:366:ARG:NH1	2.50	0.45
7:Ab:34:ILE:O	7:Ab:38:ILE:HG12	2.17	0.45
6:Ae:68:ILE:HG22	6:Ae:70:GLY:H	1.81	0.45
6:Ah:456:LEU:H	6:Ah:475:THR:HG22	1.82	0.45
6:Ak:314:ALA:HA	6:Ak:513:PHE:HB2	1.98	0.45
6:An:460:ARG:HH22	6:An:471:MET:HE2	1.82	0.45
7:As:89:ARG:NH1	7:As:156:SER:O	2.50	0.45
6:Au:245:ASN:OD1	6:Au:245:ASN:N	2.49	0.45
2:B1:34:GLN:O	2:B1:82:ARG:NH2	2.50	0.45
2:B1:451:ASP:OD1	2:B1:452:GLY:N	2.40	0.45
2:B7:35:TRP:CE2	2:B7:226:TYR:HB2	2.52	0.45
5:BA:411:GLN:O	5:BA:415:GLU:HG3	2.16	0.45
5:BD:150:TRP:HD1	5:BD:156:ILE:HG22	1.82	0.45
5:BF:52:SER:HB3	5:BF:55:ASN:HB3	1.97	0.45
5:BF:184:TYR:HE1	5:BF:204:GLU:HB3	1.82	0.45
6:BK:117:MET:HG3	6:BK:453:TYR:HB2	1.98	0.45
7:BL:61:TYR:O	7:BL:68:ARG:NH1	2.50	0.45
3:BY:136:ASN:O	3:BY:136:ASN:ND2	2.50	0.45
3:Bi:104:PRO:HA	3:Bi:107:TYR:CZ	2.52	0.45
2:Bq:547:PRO:HB3	2:Bt:305:TYR:CZ	2.52	0.45
2:Br:269:PHE:CZ	2:Br:280:ALA:HB1	2.52	0.45
2:Bs:480:ARG:O	2:Bs:484:VAL:HG12	2.17	0.45
2:Bu:468:VAL:HG12	2:Bu:469:PRO:HD2	1.99	0.45
2:Bx:368:VAL:HG12	2:Bx:370:VAL:HG22	1.98	0.45
2:Bx:576:ASN:HB3	2:Bx:618:ILE:HG23	1.99	0.45
4:W:25:ILE:HD13	4:g:44:MET:HE2	1.98	0.45
4:Y:44:MET:HE3	4:i:44:MET:HE3	1.99	0.45
1:m:152:VAL:HG22	1:m:169:ILE:HG23	1.97	0.45
1:n:238:VAL:HG11	9:y:121:LYS:HB2	1.99	0.45
8:q:48:HIS:NE2	8:r:176:ILE:O	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:y:15:THR:OG1	9:y:16:ASN:N	2.49	0.45
1:0:160:GLN:HA	7:BC:273:GLY:HA3	1.99	0.44
2:1:614:THR:O	2:1:616:SER:N	2.46	0.44
2:2:592:LEU:HD23	2:2:604:TYR:HB2	1.99	0.44
2:3:107:GLY:HA3	2:3:110:TYR:CE2	2.50	0.44
2:3:647:THR:OG1	2:AK:633:ARG:NH1	2.45	0.44
2:5:63:ASP:OD2	2:5:379:ALA:HB3	2.16	0.44
2:5:101:TYR:CZ	2:5:143:ILE:HG12	2.52	0.44
3:8:101:GLY:N	3:AJ:119:ASP:OD1	2.50	0.44
5:A1:495:ASP:OD1	5:A1:495:ASP:N	2.49	0.44
6:A4:409:THR:HG21	6:A5:371:GLY:N	2.32	0.44
6:A8:445:ASP:OD1	6:A8:445:ASP:N	2.50	0.44
6:A9:318:LYS:NZ	6:A9:339:ASP:OD1	2.50	0.44
2:AK:488:TRP:HB3	2:AK:556:LEU:HD12	1.98	0.44
2:AK:496:ARG:NH2	2:Bs:573:PHE:O	2.39	0.44
2:AL:29:LEU:O	2:AL:80:VAL:HA	2.16	0.44
2:AL:424:ASP:OD1	2:AL:516:ARG:NH2	2.50	0.44
2:AN:163:LEU:HD11	2:AN:187:ILE:HG12	1.99	0.44
2:AP:237:GLU:OE1	2:AP:284:ARG:NH2	2.36	0.44
2:AP:467:TRP:CH2	2:Bp:199:GLU:HB2	2.53	0.44
6:AV:117:MET:HG2	6:AV:451:ALA:HB1	1.99	0.44
6:AX:204:ASP:OD1	6:AX:205:ALA:N	2.50	0.44
7:AY:53:LEU:HG	7:AY:187:TRP:HB3	2.00	0.44
6:AZ:190:LEU:HB3	6:AZ:221:LEU:HB3	1.99	0.44
6:Ae:153:MET:HB3	6:Ae:158:GLY:H	1.81	0.44
6:Af:494:SER:C	6:Af:496:ILE:H	2.25	0.44
6:Am:84:THR:HG21	6:Am:90:GLN:HE21	1.82	0.44
6:Am:345:TRP:CG	6:Am:346:ALA:N	2.85	0.44
6:Ap:444:MET:O	6:Ap:449:TYR:OH	2.25	0.44
7:Aq:127:ARG:HH21	5:BB:71:THR:HB	1.82	0.44
2:B2:538:ASP:HB2	2:B2:551:ILE:HB	1.98	0.44
2:B4:252:LEU:HD21	2:B4:263:SER:HB3	1.98	0.44
2:B5:222:VAL:HG21	2:B5:238:ILE:HD11	1.98	0.44
2:B7:162:THR:O	2:B7:186:LYS:HB3	2.16	0.44
2:B7:220:PRO:HG2	2:B7:338:LEU:HD11	1.99	0.44
5:BB:10:ALA:HB3	5:BB:11:PRO:HD3	1.99	0.44
6:BI:327:SER:OG	6:BI:328:LYS:N	2.48	0.44
6:BK:147:MET:SD	6:BK:487:SER:OG	2.69	0.44
6:BM:487:SER:OG	6:BM:488:ALA:N	2.49	0.44
11:BV:10:ILE:HG12	11:BV:48:THR:HB	1.99	0.44
3:BX:104:PRO:HA	3:BX:107:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:48:LYS:HE2	3:Be:158:ALA:HB2	1.99	0.44
3:Bi:80:ASP:O	3:Bi:84:LYS:HG3	2.17	0.44
2:Bp:109:ASN:N	2:Bp:138:GLY:HA3	2.32	0.44
2:Br:432:ALA:HB2	2:Br:440:ASN:HD22	1.82	0.44
2:Bt:37:PRO:HG3	2:Bt:226:TYR:CZ	2.52	0.44
2:Bt:64:TYR:HE1	2:Bt:377:SER:HA	1.81	0.44
2:Bu:377:SER:O	2:Bu:381:GLU:HG3	2.16	0.44
2:Bw:550:ARG:HB3	2:Bw:553:VAL:HG12	1.97	0.44
2:Bx:159:GLU:O	2:Bx:162:THR:N	2.49	0.44
4:D:59:ASP:HB2	4:I:58:LEU:HD21	1.99	0.44
4:a:10:PHE:HB3	4:a:22:ILE:HG12	1.99	0.44
4:d:9:PRO:HA	4:d:19:GLN:HA	1.99	0.44
1:l:243:LYS:H	8:r:4:TYR:H	1.65	0.44
1:m:118:ILE:HD12	1:m:167:ARG:HB3	1.98	0.44
8:t:243:ASP:OD1	8:t:243:ASP:N	2.51	0.44
2:1:303:ASP:OD1	2:1:304:ILE:N	2.50	0.44
2:1:557:PHE:CZ	2:1:629:ILE:HD11	2.52	0.44
2:2:244:TYR:CZ	2:2:272:GLY:HA3	2.52	0.44
2:5:110:TYR:HB2	2:5:138:GLY:O	2.18	0.44
3:8:25:ILE:HD12	3:8:28:LEU:HD13	1.99	0.44
7:A6:275:VAL:HG11	7:A1:268:GLY:O	2.17	0.44
6:A8:398:GLN:NE2	6:A9:355:PHE:HB2	2.33	0.44
9:AC:37:VAL:HG22	9:AC:73:VAL:HG13	1.99	0.44
3:AG:62:GLY:O	3:Bd:118:ARG:NH2	2.50	0.44
3:AJ:85:PHE:HB3	3:AJ:137:VAL:HG21	1.99	0.44
3:AJ:118:ARG:HA	3:AJ:118:ARG:HD2	1.90	0.44
2:AM:8:ILE:HD11	2:Bv:569:LYS:HB2	1.97	0.44
2:AM:373:PHE:HB2	2:AM:405:VAL:HG22	1.99	0.44
2:AN:121:VAL:HG22	2:AN:166:ASN:HB3	1.99	0.44
2:AN:406:LEU:HD22	2:AN:474:ILE:HG13	1.99	0.44
2:AO:104:SER:HB2	2:AO:181:VAL:HB	1.98	0.44
2:AP:222:VAL:HG21	2:AP:238:ILE:HD11	1.99	0.44
7:AY:265:ARG:HA	7:AY:265:ARG:HD3	1.88	0.44
6:Ac:365:ALA:HB2	6:Ac:372:GLU:HG2	1.99	0.44
6:Af:264:ARG:HG3	6:Af:477:TYR:HE1	1.82	0.44
6:Ag:447:GLY:O	6:Ag:510:ASN:ND2	2.43	0.44
6:Ap:147:MET:HE2	6:Ap:367:GLN:HG2	1.99	0.44
6:Ap:481:ILE:N	6:Ap:499:GLY:O	2.46	0.44
6:Aw:228:MET:HG2	6:Aw:233:ALA:HB2	1.98	0.44
5:Ax:254:LEU:O	5:Ax:258:VAL:HG23	2.17	0.44
5:Ax:413:LYS:HA	5:Ax:413:LYS:HD3	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:220:PRO:HD2	2:B1:338:LEU:HD21	2.00	0.44
2:B2:23:SER:O	2:B2:76:ASN:HB2	2.18	0.44
2:B2:371:GLN:OE1	2:B2:562:THR:OG1	2.28	0.44
2:B3:355:LEU:HD12	2:B3:389:VAL:HG21	1.98	0.44
2:B3:368:VAL:HG12	2:B3:370:VAL:HG22	2.00	0.44
2:B6:92:SER:HB3	2:B6:340:LEU:HB3	1.99	0.44
5:BB:408:ARG:HH21	5:BB:450:ARG:CZ	2.30	0.44
7:BC:230:VAL:HG21	7:BC:233:GLN:HB2	1.99	0.44
6:BK:490:GLN:OE1	6:BK:490:GLN:N	2.49	0.44
11:BW:18:ASP:HB3	11:BW:21:LYS:HD3	1.98	0.44
3:Bc:48:LYS:HE3	3:Bc:48:LYS:HB3	1.80	0.44
2:Bp:246:LYS:HD2	2:Bp:250:ALA:HB2	1.98	0.44
2:Bt:237:GLU:OE1	2:Bt:284:ARG:NH1	2.37	0.44
2:Bu:238:ILE:HB	2:Bu:334:PHE:HE2	1.81	0.44
2:Bx:453:ASN:HB3	2:Bx:507:ILE:HG12	1.99	0.44
2:By:69:MET:O	2:By:73:GLN:HG2	2.17	0.44
2:By:225:LEU:HD13	2:By:324:PHE:HB2	1.98	0.44
1:l:60:TYR:OH	1:l:136:ASP:OD2	2.23	0.44
1:n:60:TYR:OH	1:n:136:ASP:OD2	2.26	0.44
3:o:20:LEU:HA	9:y:54:PHE:CD1	2.52	0.44
1:p:202:ASN:HA	1:p:205:ARG:HB2	1.99	0.44
9:v:38:PRO:HB3	9:w:142:GLU:HA	1.98	0.44
9:w:13:ASN:H	9:w:16:ASN:ND2	2.15	0.44
1:0:146:LEU:HB3	8:q:68:VAL:HG12	1.99	0.44
2:1:384:GLU:HA	2:1:439:ASN:CG	2.42	0.44
2:2:356:MET:HB2	2:2:392:HIS:CD2	2.52	0.44
2:4:45:THR:OG1	2:4:46:ASN:OD1	2.30	0.44
2:5:193:ILE:HD12	2:5:193:ILE:HA	1.85	0.44
2:5:225:LEU:H	2:5:225:LEU:HD23	1.82	0.44
2:5:252:LEU:HG	2:5:263:SER:HB2	1.99	0.44
6:A7:253:ARG:HH21	6:A7:492:PRO:HG2	1.82	0.44
6:A8:279:ARG:NH2	7:Ab:122:GLY:O	2.50	0.44
6:A9:159:ALA:HB3	6:A9:228:MET:HE2	1.99	0.44
9:AC:139:SER:HB3	9:AC:156:THR:H	1.81	0.44
3:AH:57:LYS:HE2	3:Bm:147:ASN:HD21	1.83	0.44
2:AL:477:LEU:HD21	2:AL:497:GLY:HA2	1.99	0.44
2:AL:612:ASN:HB3	2:AL:624:VAL:HG23	1.99	0.44
10:AT:284:ALA:HB2	10:AT:342:GLN:HE22	1.82	0.44
6:AV:270:TYR:HB3	6:AV:290:LEU:HD12	1.99	0.44
7:AY:103:THR:HG21	6:Ao:462:SER:O	2.18	0.44
7:AY:217:GLU:HB3	7:AY:224:HIS:CD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AY:246:TRP:NE1	7:AY:297:LEU:HB2	2.32	0.44
6:Af:123:GLN:O	6:Az:96:MET:N	2.50	0.44
6:Ah:204:ASP:OD1	6:Ah:205:ALA:N	2.46	0.44
6:Ai:131:TYR:HA	6:Ai:250:MET:HA	1.98	0.44
6:Ai:324:THR:OG1	6:Ai:327:SER:HB2	2.16	0.44
6:Aj:71:ASP:OD1	6:Aj:72:HIS:N	2.50	0.44
6:Am:148:TYR:HA	6:Am:185:THR:HA	1.99	0.44
6:Ao:381:ASN:HB3	6:Ao:521:ILE:HG21	1.99	0.44
6:Ap:455:ALA:HB1	5:BF:65:TYR:H	1.82	0.44
7:Ar:200:ASN:HB3	4:X:31:ILE:HB	1.99	0.44
5:Ax:335:TRP:HH2	5:BA:308:MET:HG2	1.83	0.44
2:B1:521:ALA:HB1	2:B1:541:ALA:HA	1.99	0.44
2:B2:514:ARG:HH12	2:B3:364:ASP:CG	2.25	0.44
2:B2:548:PHE:HE2	2:B2:557:PHE:CG	2.35	0.44
2:B6:432:ALA:HB2	2:B6:440:ASN:HD22	1.83	0.44
2:B7:76:ASN:O	2:B7:76:ASN:ND2	2.46	0.44
5:BB:46:SER:OG	5:BB:49:GLU:OE1	2.32	0.44
7:BE:29:LEU:HD11	7:BE:258:LEU:HB3	1.98	0.44
5:BF:189:ILE:HG12	5:BF:200:LYS:HB2	2.00	0.44
5:BG:477:ILE:H	5:BG:477:ILE:HG13	1.63	0.44
6:BJ:151:ASP:HB3	6:BJ:154:PHE:HB2	1.98	0.44
6:BM:456:LEU:H	6:BM:475:THR:HB	1.82	0.44
3:BX:82:ARG:NH1	3:BX:138:GLY:HA2	2.32	0.44
3:BZ:138:GLY:HA3	3:Bo:43:ALA:HA	1.99	0.44
3:Bd:58:ILE:HD13	3:Bd:58:ILE:H	1.82	0.44
3:Bi:37:LYS:HB2	3:Bi:37:LYS:HZ2	1.82	0.44
3:Bk:39:THR:HG22	3:Bk:71:VAL:HA	1.99	0.44
2:Bq:222:VAL:HG22	2:Bq:325:ALA:HB2	1.98	0.44
2:Br:40:GLN:H	2:Br:81:VAL:HG23	1.82	0.44
2:Bs:346:SER:O	2:Bs:350:VAL:HG23	2.17	0.44
2:Bt:30:ALA:HB3	2:Bt:359:TRP:CE2	2.52	0.44
2:Bu:44:VAL:HG11	2:Bu:50:LEU:HD13	1.99	0.44
2:Bu:45:THR:OG1	2:Bu:49:ASP:OD2	2.31	0.44
2:Bu:90:LYS:NZ	2:Bu:190:ASP:OD1	2.36	0.44
2:Bu:222:VAL:HG21	2:Bu:238:ILE:HD11	1.99	0.44
2:Bw:66:MET:SD	2:Bw:459:ASP:HB2	2.57	0.44
2:Bw:639:THR:HB	2:Bx:624:VAL:HG12	1.98	0.44
2:Bz:159:GLU:OE2	2:Bz:166:ASN:ND2	2.50	0.44
2:Bz:225:LEU:HD13	2:Bz:324:PHE:HB2	1.99	0.44
1:k:176:TYR:HD2	8:r:73:PRO:HD3	1.82	0.44
1:l:62:PRO:HG3	1:l:84:TRP:HZ3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s:69:GLU:HG2	8:s:70:THR:H	1.82	0.44
1:0:221:VAL:HG13	8:q:22:SER:HB2	2.00	0.44
2:1:389:VAL:O	2:1:393:VAL:HG23	2.18	0.44
2:2:268:VAL:HG21	2:2:282:ILE:HD11	1.99	0.44
2:2:368:VAL:O	2:2:400:ARG:NH2	2.50	0.44
2:4:389:VAL:O	2:4:393:VAL:HG23	2.17	0.44
2:4:590:GLN:NE2	9:y:163:TYR:OH	2.50	0.44
3:7:18:PRO:HB2	3:8:146:SER:HB2	2.00	0.44
5:A1:93:SER:OG	5:BB:374:ARG:NH2	2.50	0.44
5:A3:300:HIS:HE1	7:A6:50:PHE:HB2	1.82	0.44
6:A4:444:MET:HE2	6:A4:444:MET:HB3	1.89	0.44
6:A5:430:LYS:HE2	6:AW:188:VAL:HG13	2.00	0.44
3:AA:10:PHE:CE1	3:o:35:GLN:HG2	2.52	0.44
8:AB:56:TRP:HB3	8:AB:65:VAL:HG21	1.98	0.44
2:AD:66:MET:HG2	2:AD:468:VAL:HG21	1.98	0.44
2:AD:538:ASP:HB2	2:AD:551:ILE:HB	1.98	0.44
3:AI:99:ILE:O	3:Bg:120:ALA:HB2	2.18	0.44
2:AK:247:GLY:O	2:AK:263:SER:OG	2.34	0.44
2:AL:116:ILE:HD13	2:AL:171:ILE:HG23	1.98	0.44
2:AM:101:TYR:CE1	2:AM:143:ILE:HG12	2.52	0.44
2:AM:202:GLU:H	2:AM:202:GLU:HG3	1.59	0.44
2:AM:644:ALA:O	2:AM:645:THR:OG1	2.36	0.44
2:AN:110:TYR:CE2	2:AN:177:GLY:HA3	2.52	0.44
2:AN:206:THR:HA	2:AN:211:GLN:HE21	1.83	0.44
2:AN:252:LEU:HB2	2:AN:337:ILE:HG12	1.99	0.44
2:AO:97:GLY:N	2:AO:188:ILE:O	2.50	0.44
2:AO:378:CYS:HG	2:AO:454:TYR:HH	1.59	0.44
2:AO:480:ARG:O	2:AO:484:VAL:HG12	2.18	0.44
6:AV:238:GLY:HA2	6:AV:242:SER:O	2.17	0.44
6:AX:142:GLU:HB2	6:AX:490:GLN:HB3	2.00	0.44
6:Ae:344:ARG:HB2	6:Ae:348:GLU:CD	2.43	0.44
6:Ak:84:THR:OG1	6:Ak:88:VAL:O	2.35	0.44
6:Am:263:SER:HA	6:Am:476:ARG:HA	1.98	0.44
6:Ap:494:SER:HA	11:BW:37:ASP:CG	2.42	0.44
7:As:231:VAL:HG12	4:P:29:GLU:O	2.17	0.44
6:Au:378:ALA:HB1	6:Au:382:VAL:HB	2.00	0.44
6:Aw:125:PHE:CZ	6:BI:91:ILE:HA	2.50	0.44
6:Ay:486:GLU:HA	6:Ay:509:LYS:O	2.17	0.44
6:Az:131:TYR:HD2	6:Az:250:MET:HE3	1.81	0.44
6:Az:147:MET:SD	6:Az:366:ARG:NH1	2.90	0.44
2:B2:28:ALA:HB2	2:B2:370:VAL:HG21	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:516:ARG:O	2:B4:520:GLU:HG2	2.18	0.44
2:B6:188:ILE:H	2:B6:188:ILE:HG13	1.28	0.44
2:B6:368:VAL:HG12	2:B6:370:VAL:HG22	1.99	0.44
2:B7:110:TYR:CE2	2:B7:171:ILE:HG21	2.45	0.44
5:BB:408:ARG:HE	5:BB:450:ARG:NH2	2.14	0.44
7:BC:20:LEU:HD11	7:BC:255:ALA:HB1	2.00	0.44
7:BC:54:ASN:HD22	7:BC:54:ASN:C	2.24	0.44
7:BC:309:GLY:HA2	5:BH:332:GLU:HG2	1.99	0.44
5:BD:354:ASP:N	5:BD:354:ASP:OD1	2.46	0.44
7:BE:187:TRP:CE2	5:BG:295:ARG:HD2	2.53	0.44
5:BG:82:LEU:HD22	5:BG:258:VAL:HG22	1.99	0.44
7:BL:112:LEU:HD22	7:BL:114:MET:HE2	2.00	0.44
3:Ba:113:VAL:HG13	3:Ba:127:ILE:HG23	1.98	0.44
3:Bf:1:MET:HE3	3:Bf:1:MET:HB2	1.91	0.44
2:Bp:39:PHE:HB3	2:Bp:361:PHE:CE2	2.53	0.44
2:Bs:315:PHE:HE2	2:Bs:323:ILE:HG13	1.82	0.44
2:Bv:219:ILE:HB	2:Bv:338:LEU:HD21	1.99	0.44
2:Bv:220:PRO:HG2	2:Bv:338:LEU:HD11	1.97	0.44
2:Bv:538:ASP:O	2:Bv:551:ILE:N	2.30	0.44
2:Bx:487:THR:HG21	2:Bx:559:MET:HE3	1.99	0.44
4:Y:12:ASP:HB2	4:i:52:LEU:HD21	1.99	0.44
4:j:35:ASP:N	4:j:41:GLU:OE2	2.45	0.44
3:o:23:VAL:HB	3:o:113:VAL:HB	2.00	0.44
8:q:248:ASP:OD1	8:q:248:ASP:N	2.50	0.44
9:x:51:THR:OG1	9:x:56:LEU:O	2.36	0.44
9:y:168:LYS:HB3	9:y:173:ILE:HD11	1.98	0.44
2:1:406:LEU:HD22	2:1:474:ILE:HG13	1.98	0.44
2:2:438:ASP:N	2:2:438:ASP:OD1	2.51	0.44
2:4:129:GLY:HA2	2:4:146:PRO:HD3	1.98	0.44
2:4:429:TRP:CD1	2:4:440:ASN:HA	2.53	0.44
5:A0:301:MET:HE2	7:BC:304:PHE:HZ	1.82	0.44
5:A0:332:GLU:HG2	7:BE:309:GLY:HA2	1.99	0.44
5:A1:162:ILE:HD13	5:A1:163:ASP:N	2.33	0.44
5:A1:329:SER:HB2	7:As:150:MET:HE2	1.99	0.44
5:A2:188:ILE:HG22	5:A2:202:TYR:HB3	1.98	0.44
5:A2:376:PRO:HG3	5:A2:403:PHE:HB2	1.99	0.44
6:A4:348:GLU:HB3	6:A4:396:ALA:HB2	1.99	0.44
6:A5:363:GLU:OE2	6:A5:366:ARG:NH1	2.51	0.44
6:A7:345:TRP:NE1	6:A8:348:GLU:HB2	2.32	0.44
6:A9:277:ASP:OD1	6:An:476:ARG:NH2	2.46	0.44
3:AA:25:ILE:HD12	3:AA:28:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AB:72:LEU:HD23	8:AB:72:LEU:HA	1.66	0.44
2:AD:417:ILE:HD13	2:AD:417:ILE:H	1.82	0.44
2:AK:511:GLN:OE1	2:AK:514:ARG:NH2	2.50	0.44
2:AL:100:GLU:HG3	2:AL:185:GLY:HA3	1.99	0.44
2:AL:234:ILE:HB	2:AL:340:LEU:HD12	2.00	0.44
2:AL:494:TYR:CE1	2:Bv:569:LYS:HG3	2.51	0.44
2:AM:11:LYS:HG2	2:AM:13:THR:HG23	1.99	0.44
2:AP:471:ALA:HA	2:AP:474:ILE:HG12	2.00	0.44
2:AP:494:TYR:CZ	2:Bp:569:LYS:HD3	2.53	0.44
7:Ab:30:THR:C	7:Ab:32:ASP:H	2.25	0.44
6:Ac:109:PHE:CZ	6:Ac:303:ASN:HA	2.53	0.44
6:Ad:106:LEU:HB2	6:Ad:303:ASN:ND2	2.32	0.44
6:Af:354:LEU:HD22	6:Az:400:LEU:HD21	1.99	0.44
6:Ak:346:ALA:HB2	6:Ao:341:ARG:HB3	2.00	0.44
6:Ao:466:ASN:HB3	7:BL:93:GLY:HA2	1.99	0.44
6:Ap:236:GLN:HG3	6:BI:265:GLN:HE21	1.83	0.44
7:Aq:202:VAL:O	4:Z:27:ASN:HA	2.17	0.44
7:Ar:175:ASN:OD1	5:BA:323:ASN:N	2.47	0.44
6:Au:131:TYR:HB3	6:Au:250:MET:HE2	1.98	0.44
5:Av:308:MET:HG2	5:BB:335:TRP:HH2	1.83	0.44
5:Ax:76:ILE:HD12	5:Ax:180:ARG:HB3	2.00	0.44
2:B3:28:ALA:HB2	2:B3:370:VAL:HG21	1.99	0.44
5:BD:398:ARG:HD2	5:BD:398:ARG:HA	1.70	0.44
7:BE:30:THR:C	7:BE:32:ASP:H	2.25	0.44
7:BE:68:ARG:HD2	7:BE:74:PHE:CE2	2.53	0.44
5:BF:379:ARG:H	5:BF:379:ARG:HG2	1.46	0.44
5:BG:311:ARG:HG3	5:BG:312:VAL:H	1.82	0.44
11:BP:10:ILE:HD11	11:BP:35:TYR:CE1	2.53	0.44
11:BQ:26:LYS:HD2	11:BQ:75:LEU:HD23	1.98	0.44
3:BZ:37:LYS:NZ	3:BZ:74:MET:HG2	2.32	0.44
3:Bc:143:ASP:OD1	3:Bc:144:TRP:N	2.51	0.44
3:Bd:23:VAL:HG11	3:Bd:39:THR:HG21	1.99	0.44
3:Be:83:GLN:HA	3:Be:86:VAL:HG22	1.99	0.44
2:Bp:444:SER:HB3	2:Bp:543:SER:H	1.82	0.44
2:Bt:394:VAL:HG11	2:Bt:443:ILE:HD12	1.99	0.44
2:Bu:154:ALA:HA	2:Bu:157:VAL:HG22	1.99	0.44
2:Bv:572:LEU:HD12	2:Bv:572:LEU:HA	1.77	0.44
2:Bw:119:LYS:HE3	2:Bw:122:SER:HA	2.00	0.44
2:Bw:365:ARG:HA	2:Bw:400:ARG:NH2	2.32	0.44
2:Bx:495:ASN:OD1	2:Bx:495:ASN:N	2.50	0.44
2:By:488:TRP:O	2:By:552:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:173:LYS:HB3	8:t:69:GLU:HB2	1.98	0.44
1:p:11:LYS:H	1:p:11:LYS:HD2	1.83	0.44
8:q:217:HIS:HA	8:q:229:VAL:HB	2.00	0.44
9:x:168:LYS:HD3	9:x:173:ILE:HD11	2.00	0.44
2:2:51:VAL:HG22	2:2:65:PHE:HZ	1.83	0.44
2:2:202:GLU:HA	2:2:205:MET:HG2	1.98	0.44
2:3:525:VAL:HG22	2:3:535:LEU:HD23	1.98	0.44
2:4:545:PRO:HG3	2:5:271:TYR:HB2	1.99	0.44
5:A0:420:ASP:HB3	5:A0:421:PRO:HD3	2.00	0.44
5:A1:66:GLU:HB2	6:BK:288:ALA:HB2	1.99	0.44
5:A2:28:LEU:HD11	5:BF:172:LYS:HG2	1.99	0.44
8:AB:60:ASN:N	8:AB:60:ASN:OD1	2.50	0.44
2:AD:130:LYS:HE3	2:AD:130:LYS:HB2	1.85	0.44
2:AO:355:LEU:HD12	2:AO:389:VAL:HG21	2.00	0.44
2:AP:151:ILE:O	2:AP:155:LYS:HG2	2.17	0.44
7:Aa:16:ILE:HD12	7:Aa:252:THR:HG23	1.99	0.44
7:Ab:53:LEU:HD12	7:Ab:53:LEU:HA	1.75	0.44
6:Ad:503:ILE:HA	6:Ad:507:LEU:HB2	1.98	0.44
6:Au:269:ALA:HB2	6:Au:470:VAL:HG13	1.99	0.44
6:Ay:322:THR:O	6:Ay:322:THR:OG1	2.29	0.44
6:Az:417:LEU:HB3	6:Az:421:TYR:HB2	2.00	0.44
2:B1:222:VAL:HG21	2:B1:238:ILE:HD11	1.99	0.44
2:B1:313:ASP:N	2:B1:313:ASP:OD1	2.50	0.44
2:B2:560:LEU:O	2:B2:564:ILE:HG12	2.18	0.44
2:B3:510:ARG:O	2:B3:514:ARG:HB2	2.17	0.44
2:B4:116:ILE:N	2:B4:129:GLY:O	2.50	0.44
2:B4:560:LEU:O	2:B4:564:ILE:HG12	2.18	0.44
5:BA:337:GLN:HB3	5:BA:344:VAL:HB	2.00	0.44
5:BB:86:TYR:O	5:BB:87:GLU:HB2	2.16	0.44
5:BB:423:LYS:HG3	5:BB:437:TRP:CD1	2.52	0.44
7:BC:99:ASP:OD1	7:BC:100:GLY:N	2.51	0.44
5:BD:218:ASP:OD1	5:BD:218:ASP:N	2.51	0.44
5:BF:327:ASN:ND2	7:BL:142:THR:O	2.51	0.44
5:BF:366:ARG:NH1	5:BF:382:GLN:OE1	2.51	0.44
7:BL:53:LEU:HD12	7:BL:53:LEU:HA	1.87	0.44
7:BL:97:SER:OG	7:BL:101:ASN:OD1	2.34	0.44
6:BM:146:PRO:HB3	6:BM:369:GLY:HA3	2.00	0.44
6:BM:309:TRP:CD1	6:BM:479:ILE:HD13	2.53	0.44
11:BQ:9:ASN:HB3	11:BQ:56:TYR:CE2	2.52	0.44
3:BY:77:GLU:HG2	3:Bn:124:THR:HG21	2.00	0.44
3:Bb:99:ILE:HG12	3:Bn:56:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bi:103:LYS:O	3:Bi:106:GLU:HG2	2.17	0.44
2:Bs:28:ALA:HB1	2:Bs:362:PHE:CE2	2.53	0.44
2:Bs:411:ARG:O	2:Bs:415:VAL:HB	2.18	0.44
2:By:495:ASN:OD1	2:By:495:ASN:N	2.49	0.44
4:g:8:LEU:O	4:g:19:GLN:NE2	2.50	0.44
1:m:59:TYR:HB2	1:m:139:TYR:HB3	1.99	0.44
8:q:22:SER:O	8:q:38:ARG:NH1	2.51	0.44
8:q:215:ASP:N	8:q:215:ASP:OD1	2.51	0.44
8:r:91:ASN:OD1	8:r:92:ILE:N	2.50	0.44
1:0:33:PHE:HE1	7:BC:277:ILE:HD12	1.83	0.44
3:8:5:ASP:HB3	3:8:8:ARG:HB2	1.99	0.44
5:A3:39:GLY:H	5:A3:250:ILE:HD11	1.83	0.44
6:A4:414:ALA:HB3	6:A4:423:VAL:HB	1.99	0.44
6:A7:337:PRO:HA	6:A7:340:ILE:HG12	2.00	0.44
6:A9:85:SER:HB2	11:BT:35:TYR:HE2	1.82	0.44
9:AC:78:ASP:HA	9:z:11:GLN:HA	2.00	0.44
3:AF:64:ARG:NH1	3:AG:95:GLN:HB3	2.32	0.44
3:AH:83:GLN:HA	3:AH:86:VAL:HG22	2.00	0.44
2:AK:32:LYS:HD2	2:AK:64:TYR:HE2	1.82	0.44
2:AM:131:ILE:HA	2:AM:143:ILE:HA	1.99	0.44
2:AM:406:LEU:HA	2:AM:449:ALA:O	2.18	0.44
2:AN:104:SER:HB2	2:AN:181:VAL:HB	2.00	0.44
6:Ae:448:ILE:HD11	6:Ae:479:ILE:HD12	2.00	0.44
6:Af:305:GLU:HA	6:Aj:225:ALA:HB3	1.99	0.44
6:Ag:100:ARG:HD3	6:Ak:127:LEU:HD22	2.00	0.44
6:Ag:262:LYS:NZ	6:Ak:226:GLU:OE1	2.50	0.44
6:Ai:406:THR:OG1	6:Am:372:GLU:OE2	2.23	0.44
7:Al:30:THR:O	7:Al:32:ASP:N	2.48	0.44
7:Al:117:ILE:HD13	7:Al:117:ILE:H	1.82	0.44
6:Ao:90:GLN:HE21	6:Ao:90:GLN:HB2	1.59	0.44
6:Ao:445:ASP:OD1	6:Ao:445:ASP:N	2.49	0.44
7:Aq:40:ARG:HH21	7:Aq:254:LEU:HB3	1.81	0.44
7:As:98:MET:H	7:As:102:ALA:HB3	1.81	0.44
7:At:29:LEU:O	1:k:10:ALA:N	2.49	0.44
6:Az:145:HIS:ND1	6:Az:146:PRO:O	2.50	0.44
2:B5:213:ASN:O	2:B5:217:TYR:HD1	1.99	0.44
2:B7:18:THR:HG21	2:B7:48:VAL:HG22	1.99	0.44
2:B7:57:PRO:HG3	2:B7:65:PHE:HB3	1.99	0.44
2:B7:153:LYS:O	2:B7:157:VAL:HG22	2.18	0.44
2:B7:209:ASP:OD1	2:B7:210:PHE:N	2.51	0.44
5:BA:29:VAL:HG23	5:BA:199:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BD:76:ILE:O	5:BD:80:ARG:HG2	2.18	0.44
5:BD:454:PHE:CE2	5:BD:458:LYS:HD2	2.52	0.44
7:BE:194:THR:O	7:BE:198:VAL:HG23	2.18	0.44
3:Bn:42:PRO:HG2	3:Bn:127:ILE:HD11	1.99	0.44
2:Bp:32:LYS:HG3	2:Bp:350:VAL:HG21	2.00	0.44
2:Bp:285:ARG:NH1	2:Bp:286:ASN:OD1	2.51	0.44
2:Bs:455:LYS:HB3	2:Bs:470:LEU:HD13	1.98	0.44
2:Bs:509:THR:O	2:Bs:514:ARG:NH1	2.50	0.44
2:Bt:379:ALA:HB2	2:Bt:469:PRO:HD3	2.00	0.44
2:Bw:273:PRO:HD3	2:Bw:280:ALA:HB2	1.99	0.44
2:Bx:351:THR:OG1	2:Bx:352:ALA:N	2.50	0.44
2:By:151:ILE:O	2:By:155:LYS:HG2	2.17	0.44
2:By:254:ILE:HG22	2:By:257:GLY:H	1.83	0.44
2:By:454:TYR:HB3	2:By:467:TRP:CD1	2.53	0.44
4:L:8:LEU:HD22	4:L:54:ASN:HB3	1.99	0.44
4:Z:9:PRO:HD3	4:Z:57:VAL:HG21	1.98	0.44
4:a:24:TRP:O	4:a:46:ARG:NH2	2.49	0.44
1:m:61:VAL:HB	1:m:137:LEU:HB2	1.99	0.44
3:o:94:GLY:HA3	3:o:100:THR:HB	2.00	0.44
8:r:72:LEU:HD12	8:r:125:ARG:HB2	2.00	0.44
8:r:99:GLN:HB3	8:r:243:ASP:HB3	1.98	0.44
8:s:237:VAL:HG13	8:s:247:TRP:CZ3	2.52	0.44
2:1:373:PHE:HB2	2:1:405:VAL:HG22	2.00	0.44
2:2:44:VAL:HG11	2:2:50:LEU:HB2	1.99	0.44
2:4:406:LEU:HD22	2:4:474:ILE:HG13	1.99	0.44
2:5:510:ARG:HG2	2:5:511:GLN:H	1.83	0.44
3:6:18:PRO:HB2	3:7:146:SER:HB2	2.00	0.44
3:8:64:ARG:HH21	3:9:95:GLN:HB2	1.83	0.44
5:A0:76:ILE:HD13	5:A0:179:PRO:HB2	1.99	0.44
5:A1:301:MET:HE2	7:Aq:304:PHE:HZ	1.83	0.44
5:A1:321:ILE:O	7:Aq:174:GLY:HA2	2.17	0.44
5:A1:328:MET:HB3	5:BB:282:ARG:HH12	1.82	0.44
5:A3:311:ARG:HH21	5:A3:326:HIS:CD2	2.36	0.44
6:A7:270:TYR:HB3	6:A7:290:LEU:HD22	2.00	0.44
2:AD:299:ARG:HG2	2:AD:310:TYR:CZ	2.52	0.44
3:AG:43:ALA:HA	3:AH:139:GLU:H	1.83	0.44
3:AI:42:PRO:HB2	3:AI:43:ALA:H	1.55	0.44
3:AJ:11:GLU:H	3:AJ:11:GLU:HG2	1.56	0.44
3:AJ:97:ASN:O	3:Bg:3:VAL:N	2.46	0.44
3:AJ:103:LYS:HG3	3:Bj:13:GLY:HA3	2.00	0.44
2:AK:139:LYS:HB3	2:AK:141:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:284:ARG:HG2	2:AM:289:ILE:HD13	2.00	0.44
2:AN:510:ARG:HG2	2:AN:511:GLN:H	1.83	0.44
2:AO:572:LEU:HD12	2:AO:572:LEU:HA	1.84	0.44
6:AX:267:LYS:HE2	6:AZ:247:TRP:HB2	1.98	0.44
6:AX:351:LYS:NZ	6:AX:394:SER:O	2.51	0.44
6:AC:155:SER:OG	6:AW:301:GLU:OE1	2.33	0.44
6:AF:131:TYR:HE2	6:AF:143:ALA:HA	1.83	0.44
6:AF:366:ARG:HD2	6:AZ:380:ARG:HH21	1.82	0.44
6:AI:184:GLU:O	6:AI:185:THR:OG1	2.30	0.44
6:AI:345:TRP:HZ2	6:AM:351:LYS:HD2	1.83	0.44
6:AK:267:LYS:HD3	6:AO:247:TRP:CE3	2.53	0.44
6:AK:278:LEU:HD23	6:AK:286:ALA:HB2	2.00	0.44
7:AL:271:LEU:HD21	1:n:54:ARG:HD3	2.00	0.44
5:AX:289:THR:HB	5:AX:292:MET:HE3	1.99	0.44
2:B1:612:ASN:OD1	2:B1:612:ASN:N	2.50	0.44
2:B3:351:THR:HG23	2:B3:354:ASP:H	1.82	0.44
2:B4:283:VAL:O	2:B4:290:VAL:HG12	2.18	0.44
2:B4:453:ASN:ND2	2:B4:454:TYR:O	2.49	0.44
5:BF:11:PRO:HA	5:BF:14:LYS:HE3	2.00	0.44
6:BK:141:LYS:HA	6:BK:490:GLN:HG2	2.00	0.44
7:BL:128:PHE:CD2	7:BL:129:TYR:HD2	2.36	0.44
3:BX:69:TRP:HB2	3:BX:159:LEU:HD23	1.99	0.44
3:BZ:8:ARG:HA	3:BZ:11:GLU:HG2	2.00	0.44
3:Be:124:THR:HB	3:Bh:78:ALA:HA	2.00	0.44
3:Bi:21:PHE:HZ	3:Bi:38:ALA:HA	1.82	0.44
2:Bp:647:THR:O	2:Bq:630:GLN:NE2	2.51	0.44
2:Bt:33:PHE:HA	2:Bt:61:THR:HG23	1.99	0.44
2:Bt:302:LYS:O	2:Bt:307:SER:N	2.50	0.44
2:Bv:269:PHE:CZ	2:Bv:280:ALA:HB1	2.52	0.44
2:By:498:GLN:HA	2:By:534:VAL:HG12	1.99	0.44
2:Bz:351:THR:OG1	2:Bz:352:ALA:N	2.49	0.44
4:K:24:TRP:O	4:K:26:LYS:NZ	2.51	0.44
4:b:44:MET:HE2	4:b:44:MET:HB3	1.89	0.44
8:s:218:ALA:H	8:s:229:VAL:HG21	1.83	0.44
8:t:13:TYR:CD2	8:t:116:MET:HE1	2.53	0.44
8:t:81:ASP:OD1	8:t:82:PHE:N	2.50	0.44
9:w:19:VAL:HG11	9:w:37:VAL:HG21	1.99	0.44
9:y:168:LYS:HD2	9:z:85:ILE:HG21	1.99	0.44
9:z:83:SER:O	9:z:87:MET:HG2	2.18	0.44
1:O:176:TYR:HA	8:q:71:ILE:HA	2.00	0.44
2:1:406:LEU:H	2:1:406:LEU:HG	1.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:246:LYS:HG3	2:2:250:ALA:HB2	1.98	0.44
2:5:374:ILE:HG23	2:5:471:ALA:O	2.18	0.44
3:9:118:ARG:NH2	9:y:94:THR:O	2.51	0.44
5:A1:41:ARG:NH2	5:A1:64:SER:OG	2.51	0.44
5:A3:236:VAL:HG13	5:A3:420:ASP:HB3	2.00	0.44
6:A9:462:SER:N	7:As:102:ALA:O	2.35	0.44
3:AE:39:THR:HG22	3:AE:71:VAL:HG22	1.99	0.44
3:AF:56:ARG:HB3	3:AF:56:ARG:HH11	1.82	0.44
2:AL:527:GLY:HA2	2:AL:533:TYR:CD2	2.53	0.44
2:AM:462:ASN:HB2	2:AM:464:VAL:HG22	1.99	0.44
7:Al:53:LEU:HD12	7:Al:53:LEU:HA	1.87	0.44
6:Am:387:ALA:HB2	6:Am:404:PHE:HB2	1.99	0.44
6:Ap:476:ARG:NH2	6:BM:277:ASP:OD1	2.49	0.44
7:Aq:163:PHE:HB2	7:Aq:170:LEU:HB2	2.00	0.44
5:Av:93:SER:HA	5:Av:148:ARG:HH21	1.82	0.44
6:Aw:184:GLU:O	6:Aw:185:THR:OG1	2.29	0.44
5:Ax:283:ARG:HD3	5:BA:350:LEU:HD21	1.99	0.44
2:B1:404:LEU:HD22	2:B1:404:LEU:HA	1.83	0.44
2:B2:456:TYR:O	2:B2:503:ILE:HG12	2.17	0.44
5:BB:376:PRO:HB3	5:BB:399:ASP:HB2	2.00	0.44
5:BB:383:ASP:N	5:BB:383:ASP:OD1	2.51	0.44
5:BB:474:GLU:HG3	5:BB:475:PRO:HD3	2.00	0.44
7:BC:269:MET:HE1	7:BE:272:PRO:HG2	2.00	0.44
5:BD:5:VAL:N	5:BD:9:PHE:HD1	2.15	0.44
3:Bb:23:VAL:HG11	3:Bb:39:THR:HG21	2.00	0.44
3:Bo:103:LYS:O	3:Bo:106:GLU:HG2	2.18	0.44
2:Bp:34:GLN:OE1	2:Bp:58:THR:OG1	2.35	0.44
2:Bp:450:ILE:HD13	2:Bp:522:ILE:HG12	2.00	0.44
2:Bq:481:THR:HG23	2:Bq:496:ARG:HD3	1.99	0.44
2:Br:470:LEU:O	2:Br:474:ILE:HG12	2.18	0.44
2:Bs:110:TYR:CD1	2:Bs:177:GLY:HA3	2.53	0.44
2:Bw:148:ALA:O	2:Bw:151:ILE:HG13	2.18	0.44
2:Bx:346:SER:O	2:Bx:350:VAL:HG23	2.18	0.44
2:Bz:130:LYS:HE2	2:Bz:130:LYS:HB2	1.78	0.44
2:Bz:454:TYR:HB3	2:Bz:467:TRP:HD1	1.83	0.44
4:H:76:ILE:HD11	4:S:76:ILE:HG13	1.99	0.44
4:I:27:ASN:HB3	4:i:38:TYR:CE2	2.53	0.44
8:s:85:ASN:H	8:s:114:ILE:HA	1.83	0.44
8:u:144:HIS:HB2	8:u:164:LYS:HB3	2.00	0.44
2:3:297:THR:HG22	2:3:311:ILE:HD12	1.99	0.43
2:3:410:PRO:O	2:3:413:THR:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4:285:ARG:HG2	2:4:286:ASN:ND2	2.33	0.43
2:4:371:GLN:HB2	2:4:403:CYS:HA	1.99	0.43
2:4:654:LEU:HD22	2:5:17:SER:H	1.82	0.43
3:8:99:ILE:HD11	3:AI:1:MET:HE3	1.99	0.43
4:A:57:VAL:HA	4:A:60:LYS:HE2	2.00	0.43
5:A0:227:LYS:HA	5:A0:227:LYS:HD3	1.91	0.43
5:A1:401:LEU:HD22	5:A1:405:LYS:HE2	2.00	0.43
5:A3:461:GLU:O	5:A3:465:ARG:HG2	2.17	0.43
6:A5:301:GLU:OE1	6:AW:155:SER:OG	2.29	0.43
7:A6:90:THR:O	7:A6:96:THR:HA	2.18	0.43
7:A6:133:ALA:HA	7:A6:136:ALA:HB2	1.99	0.43
6:A7:154:PHE:CE2	6:A7:248:ASN:HB3	2.53	0.43
2:AD:310:TYR:O	2:AD:314:PHE:CB	2.66	0.43
2:AK:66:MET:HB3	2:AK:468:VAL:HG11	1.99	0.43
2:AK:359:TRP:HZ3	2:AK:373:PHE:HD2	1.66	0.43
2:AL:93:SER:HB3	2:AL:191:SER:HB2	1.99	0.43
2:AM:404:LEU:HD22	2:AM:404:LEU:HA	1.87	0.43
2:AM:633:ARG:HD2	2:AM:633:ARG:HA	1.88	0.43
2:AM:644:ALA:HA	2:By:557:PHE:HZ	1.83	0.43
2:AP:51:VAL:HG22	2:AP:65:PHE:CZ	2.53	0.43
6:AX:452:PRO:HA	6:AX:477:TYR:HA	2.00	0.43
7:AY:117:ILE:HD12	7:AY:118:ASN:H	1.83	0.43
7:Ab:80:ASN:HB2	7:Ab:189:LYS:HD3	1.99	0.43
6:Ac:380:ARG:HH21	6:Ag:366:ARG:HD2	1.83	0.43
6:Ah:345:TRP:CD1	6:BI:348:GLU:HB3	2.53	0.43
6:Aj:380:ARG:CZ	6:An:366:ARG:HB3	2.48	0.43
6:Ak:190:LEU:HD13	6:Ak:221:LEU:HD13	1.98	0.43
6:An:153:MET:HE1	6:An:226:GLU:HG2	2.00	0.43
6:Ap:393:ILE:HG22	6:BI:397:ALA:HB1	2.00	0.43
7:Aq:258:LEU:HD22	7:Aq:258:LEU:HA	1.89	0.43
7:As:161:PHE:O	5:BB:303:HIS:NE2	2.51	0.43
5:Ax:508:GLU:OE1	5:BA:482:SER:OG	2.35	0.43
6:Az:128:ARG:NH1	6:Az:490:GLN:O	2.51	0.43
6:Az:363:GLU:OE2	6:Az:366:ARG:NH1	2.50	0.43
2:B1:46:ASN:O	2:B1:50:LEU:HD23	2.18	0.43
2:B3:480:ARG:O	2:B3:484:VAL:HG12	2.18	0.43
2:B6:371:GLN:HE21	2:B6:371:GLN:HB3	1.58	0.43
5:BA:336:LEU:HD11	5:BA:347:VAL:HG12	2.00	0.43
5:BD:115:LYS:HD3	5:BD:445:LYS:HE3	2.00	0.43
5:BG:210:THR:O	5:BG:225:GLY:HA2	2.18	0.43
5:BH:56:ALA:O	5:BH:60:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BH:111:LEU:HD11	5:BH:444:ILE:HD11	2.00	0.43
6:BI:131:TYR:HD2	6:BI:250:MET:HE3	1.83	0.43
7:BL:29:LEU:HD21	7:BL:259:ASN:HB2	2.00	0.43
11:BP:14:GLU:HB3	11:BP:25:GLY:N	2.33	0.43
11:BT:9:ASN:HB3	11:BT:56:TYR:CE2	2.52	0.43
11:BW:10:ILE:HD13	11:BW:41:ILE:HG21	2.00	0.43
3:Bg:137:VAL:HB	3:Bg:155:VAL:HG13	2.00	0.43
3:Bm:19:ASN:OD1	3:Bm:19:ASN:N	2.46	0.43
3:Bn:14:ASP:N	3:Bn:14:ASP:OD1	2.51	0.43
2:Bp:151:ILE:O	2:Bp:155:LYS:HG2	2.17	0.43
2:Bu:527:GLY:HA2	2:Bu:533:TYR:HD1	1.83	0.43
2:Bw:74:TYR:CD2	2:Bw:476:GLY:HA3	2.52	0.43
2:Bx:2:THR:OG1	2:Bx:3:LEU:N	2.51	0.43
2:Bx:39:PHE:HE1	2:Bx:84:VAL:H	1.66	0.43
4:M:75:ASP:OD2	4:O:80:GLN:NE2	2.51	0.43
4:V:7:ASP:OD1	4:V:7:ASP:N	2.51	0.43
1:p:59:TYR:HB2	1:p:139:TYR:HB3	1.98	0.43
2:1:410:PRO:O	2:1:413:THR:HG22	2.17	0.43
2:3:100:GLU:HG2	2:3:186:LYS:O	2.18	0.43
2:5:99:ILE:O	2:5:100:GLU:HG3	2.18	0.43
2:5:225:LEU:HB3	2:5:324:PHE:HB2	2.00	0.43
3:8:41:LEU:HD22	3:9:140:LEU:HD23	2.00	0.43
3:9:97:ASN:O	3:9:97:ASN:ND2	2.44	0.43
5:A1:208:TYR:HB2	5:A1:230:ILE:HD11	2.00	0.43
5:A3:427:LEU:HD21	5:A3:434:GLU:HG3	1.98	0.43
6:A4:264:ARG:NH1	6:A4:477:TYR:OH	2.47	0.43
3:AA:89:GLN:NE2	3:AA:135:THR:O	2.51	0.43
8:AB:132:GLN:HG2	8:u:6:TYR:CD1	2.54	0.43
2:AD:41:ILE:HA	2:AD:81:VAL:HG22	2.00	0.43
2:AD:654:LEU:HD21	2:AN:628:TYR:CZ	2.53	0.43
3:AH:137:VAL:HG23	3:AH:155:VAL:HG22	2.00	0.43
2:AM:108:SER:O	2:AM:177:GLY:HA2	2.18	0.43
2:AM:332:GLU:CD	2:AM:332:GLU:H	2.26	0.43
2:AM:563:ASN:OD1	2:AM:591:TYR:OH	2.24	0.43
2:AO:94:PRO:HD3	2:AO:222:VAL:O	2.18	0.43
2:AP:31:GLY:O	2:AP:82:ARG:HA	2.18	0.43
2:AP:365:ARG:HG3	2:AP:402:ASP:CG	2.43	0.43
6:AV:264:ARG:NE	6:AV:477:TYR:OH	2.43	0.43
7:AY:115:ALA:HB2	6:Ao:272:ILE:HG12	2.00	0.43
7:Ab:309:GLY:O	5:Ax:309:LYS:NZ	2.38	0.43
6:Ah:184:GLU:O	6:Ah:185:THR:OG1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:267:LYS:HE2	6:Bi:247:TRP:HB2	2.01	0.43
6:Ah:395:TYR:HD1	6:Ah:396:ALA:H	1.66	0.43
7:Al:215:LEU:HD11	7:BE:75:ASP:HB3	1.99	0.43
6:Am:261:ALA:HA	6:Am:478:GLY:HA3	2.00	0.43
6:An:365:ALA:HB2	6:An:372:GLU:HA	2.00	0.43
6:Ao:345:TRP:CD1	6:Ao:346:ALA:N	2.85	0.43
7:Ar:192:ILE:HD11	7:Ar:226:LEU:HG	1.99	0.43
7:As:12:LEU:HD12	7:As:242:TYR:CD2	2.47	0.43
7:At:187:TRP:CE2	5:BH:295:ARG:HD2	2.52	0.43
6:Au:190:LEU:HB3	6:Au:221:LEU:HB3	1.99	0.43
6:Aw:264:ARG:NH1	6:Aw:477:TYR:OH	2.49	0.43
6:Az:202:ALA:HA	6:Az:207:LYS:HE2	2.00	0.43
2:B1:256:PRO:HG2	2:B1:339:THR:HB	2.00	0.43
2:B2:15:VAL:HG11	2:Bz:626:THR:HG21	2.00	0.43
2:B2:35:TRP:CE3	2:B2:230:LEU:HB3	2.53	0.43
2:B3:108:SER:O	2:B3:177:GLY:HA2	2.18	0.43
2:B3:458:TYR:CE2	2:Bz:652:ASP:HB3	2.53	0.43
2:B5:284:ARG:HG2	2:B5:289:ILE:HD13	2.00	0.43
2:B6:406:LEU:HD13	2:B6:475:ALA:HB2	1.99	0.43
2:B6:643:VAL:HG21	2:B7:628:TYR:CZ	2.53	0.43
2:B7:101:TYR:CZ	2:B7:143:ILE:HG12	2.53	0.43
5:BF:502:ALA:O	5:BF:506:GLU:HG2	2.18	0.43
11:BQ:18:ASP:HB3	11:BQ:21:LYS:HD3	1.99	0.43
3:BZ:14:ASP:N	3:BZ:14:ASP:OD1	2.50	0.43
3:Bd:28:LEU:HD22	3:Bd:84:LYS:HB3	2.00	0.43
3:Bf:64:ARG:NH1	3:Bi:94:GLY:O	2.50	0.43
2:Bp:355:LEU:HD12	2:Bp:389:VAL:HG21	2.00	0.43
2:Bs:283:VAL:HB	2:Bs:291:GLN:HB3	2.00	0.43
2:Bu:137:ASP:OD1	2:Bu:137:ASP:N	2.49	0.43
2:Bv:485:SER:OG	2:Bv:486:GLN:N	2.50	0.43
2:Bv:490:SER:O	2:Bv:496:ARG:NH1	2.34	0.43
2:Bw:467:TRP:CH2	2:Bx:199:GLU:HB2	2.52	0.43
2:By:550:ARG:HB3	2:By:553:VAL:HG12	1.99	0.43
1:p:151:TRP:CZ2	8:u:59:ILE:HD12	2.51	0.43
8:u:72:LEU:HB3	8:u:73:PRO:CD	2.48	0.43
8:u:163:ILE:HD13	8:u:163:ILE:H	1.83	0.43
2:1:109:ASN:N	2:1:138:GLY:HA3	2.33	0.43
2:2:126:GLU:HG2	2:2:146:PRO:HD2	1.99	0.43
2:4:211:GLN:OE1	2:4:329:ASN:ND2	2.39	0.43
2:5:454:TYR:CD2	2:5:467:TRP:HB3	2.53	0.43
5:A3:83:MET:HE3	5:A3:83:MET:HB3	1.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A5:72:HIS:CE1	6:A5:90:GLN:HG3	2.53	0.43
6:A5:176:ASP:OD1	6:A5:177:ILE:N	2.44	0.43
6:A5:383:VAL:HG12	6:A5:406:THR:HG22	2.00	0.43
7:A6:55:LYS:HE2	7:A6:187:TRP:CH2	2.53	0.43
8:AB:242:ILE:HD12	8:AB:247:TRP:HB3	2.00	0.43
2:AD:411:ARG:HG3	2:AD:415:VAL:HG21	1.99	0.43
3:AJ:42:PRO:HD3	3:AJ:69:TRP:CD1	2.53	0.43
2:AK:365:ARG:HA	2:AK:400:ARG:NH2	2.33	0.43
2:AL:637:TYR:HB2	2:Bv:622:GLU:HG2	2.00	0.43
2:AN:368:VAL:O	2:AN:400:ARG:NH2	2.51	0.43
2:AO:46:ASN:OD1	2:AO:47:GLU:N	2.51	0.43
2:AO:220:PRO:HG2	2:AO:338:LEU:HD11	2.00	0.43
2:AP:480:ARG:NH2	2:AP:498:GLN:O	2.52	0.43
10:AT:330:PRO:HA	10:AT:335:TYR:CE1	2.54	0.43
6:AV:346:ALA:HB1	6:AV:350:PHE:CE2	2.54	0.43
6:AV:476:ARG:NH2	6:AZ:230:THR:HG23	2.33	0.43
7:Aa:161:PHE:O	5:Av:303:HIS:NE2	2.51	0.43
7:Aa:231:VAL:HG11	4:d:25:ILE:HG22	2.01	0.43
7:Ab:150:MET:SD	5:BA:273:ILE:HD12	2.58	0.43
6:Ac:365:ALA:HB2	6:Ac:372:GLU:HA	1.99	0.43
6:Aj:253:ARG:HH21	6:Aj:492:PRO:HG2	1.83	0.43
7:Ar:117:ILE:HG13	5:BH:255:HIS:CE1	2.54	0.43
7:Ar:217:GLU:HG3	7:Ar:224:HIS:CD2	2.53	0.43
5:Av:464:GLU:HB2	5:Ax:469:MET:HE1	2.00	0.43
5:Ax:501:GLU:OE1	5:BA:485:THR:OG1	2.22	0.43
6:Ay:449:TYR:CZ	6:Ay:482:ASN:HB2	2.53	0.43
2:B3:538:ASP:HA	2:B3:551:ILE:HD12	2.00	0.43
2:B4:211:GLN:HE22	2:B4:326:THR:HG21	1.83	0.43
2:B4:426:LEU:HD22	2:B4:522:ILE:HD13	2.00	0.43
2:B5:115:LYS:HD2	2:B5:115:LYS:HA	1.82	0.43
2:B5:641:ASN:HB2	2:B6:626:THR:HA	2.00	0.43
2:B6:47:GLU:O	2:B6:51:VAL:HG23	2.18	0.43
2:B6:620:ARG:HB2	2:B6:622:GLU:HG3	2.00	0.43
2:B7:250:ALA:HB3	2:B7:263:SER:OG	2.18	0.43
5:BA:256:ARG:O	5:BA:372:ALA:HB1	2.18	0.43
7:BC:200:ASN:HA	7:BC:229:ARG:HH22	1.82	0.43
7:BE:196:LYS:HD3	7:BE:226:LEU:HD11	2.00	0.43
5:BG:29:VAL:HG21	5:BG:198:ILE:HD12	2.01	0.43
5:BG:82:LEU:HD11	5:BG:261:ALA:HB3	2.00	0.43
6:BI:184:GLU:O	6:BI:185:THR:OG1	2.29	0.43
3:BZ:128:GLU:HB3	3:BZ:130:LYS:HE2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bg:63:ASP:CG	3:Bk:147:ASN:HB3	2.43	0.43
3:Bh:25:ILE:C	3:Bh:27:TYR:H	2.25	0.43
3:Bi:118:ARG:HG3	3:Bk:101:GLY:HA3	2.00	0.43
3:Bj:58:ILE:H	3:Bj:58:ILE:HD13	1.83	0.43
3:Bj:136:ASN:O	3:Bj:136:ASN:ND2	2.51	0.43
3:Bl:40:ALA:O	3:Bl:69:TRP:NE1	2.45	0.43
2:Bp:222:VAL:HG21	2:Bp:238:ILE:HD11	1.99	0.43
2:Bp:277:SER:O	2:Bp:297:THR:OG1	2.35	0.43
2:Bp:480:ARG:O	2:Bp:482:ASP:N	2.50	0.43
2:Bp:480:ARG:O	2:Bp:484:VAL:HG12	2.19	0.43
2:Bt:137:ASP:OD1	2:Bt:137:ASP:N	2.52	0.43
2:Bt:637:TYR:HB3	2:Bw:3:LEU:HB2	1.99	0.43
2:Bu:100:GLU:HB3	2:Bu:188:ILE:HD11	2.01	0.43
2:Bu:346:SER:O	2:Bu:350:VAL:HG23	2.19	0.43
2:Bu:378:CYS:SG	2:Bu:454:TYR:OH	2.58	0.43
2:Bv:43:GLN:NE2	2:Bv:77:ASP:OD2	2.51	0.43
2:Bz:413:THR:OG1	2:Bz:425:ASN:HB3	2.18	0.43
1:k:147:PHE:HD1	1:k:172:GLY:O	2.01	0.43
1:p:44:ASP:HB2	1:p:163:GLN:NE2	2.34	0.43
1:p:97:GLU:O	1:p:113:GLU:HB3	2.18	0.43
9:z:87:MET:HB2	9:z:138:LEU:HD21	2.00	0.43
2:1:102:THR:N	2:1:183:THR:O	2.51	0.43
2:2:239:VAL:HG21	2:2:265:ALA:HB2	2.00	0.43
2:4:498:GLN:HB3	2:4:534:VAL:HG12	1.99	0.43
2:4:564:ILE:HD11	8:t:216:PHE:CZ	2.53	0.43
3:6:118:ARG:NH1	9:AC:64:VAL:HG13	2.33	0.43
3:8:46:VAL:HG22	3:8:64:ARG:HD2	2.01	0.43
5:A0:328:MET:SD	5:BG:282:ARG:NH1	2.91	0.43
5:A0:379:ARG:NH2	5:A0:400:GLU:OE1	2.51	0.43
5:A1:254:LEU:O	5:A1:258:VAL:HG23	2.18	0.43
5:A3:166:ARG:NH2	5:BF:26:GLU:OE1	2.51	0.43
6:A5:93:PRO:HB3	6:AW:121:THR:O	2.19	0.43
6:A7:237:GLU:N	6:A7:245:ASN:O	2.50	0.43
6:A8:273:GLU:OE2	5:Av:324:GLN:NE2	2.51	0.43
6:A9:253:ARG:NH2	6:A9:495:ARG:HG2	2.33	0.43
3:AE:103:LYS:O	3:AE:106:GLU:HG2	2.18	0.43
3:AF:4:ASP:OD1	3:o:97:ASN:ND2	2.46	0.43
3:AG:117:ALA:HB3	3:AG:122:THR:HB	2.00	0.43
2:AL:89:ALA:HA	2:AL:344:LEU:HB3	2.00	0.43
2:AM:455:LYS:HB3	2:AM:470:LEU:HD13	2.00	0.43
2:AN:494:TYR:CE1	2:B2:569:LYS:HG3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:639:THR:HG23	2:AO:11:LYS:HD3	2.00	0.43
2:AO:310:TYR:CE2	2:AO:312:ASP:HB2	2.52	0.43
2:AP:160:TYR:HA	2:AP:161:PRO:HA	1.86	0.43
6:AV:79:ILE:HD11	6:AZ:260:GLU:HG3	2.01	0.43
6:AV:485:ALA:C	6:AV:487:SER:H	2.27	0.43
7:AY:12:LEU:HD12	7:AY:242:TYR:CD2	2.52	0.43
6:AZ:135:PRO:HG3	6:Am:67:GLU:HG2	2.01	0.43
7:Ab:80:ASN:HD21	7:Ab:222:PRO:HG2	1.83	0.43
7:Al:92:ILE:H	7:Al:92:ILE:HD12	1.84	0.43
7:Al:264:ALA:HA	7:Al:267:GLN:HB2	1.99	0.43
6:Am:71:ASP:HB2	6:Au:230:THR:HB	2.00	0.43
7:Ar:80:ASN:OD1	7:Ar:80:ASN:N	2.51	0.43
7:Ar:98:MET:HE2	7:Ar:148:MET:HG3	2.00	0.43
7:As:53:LEU:HD12	7:As:53:LEU:HA	1.88	0.43
5:Av:292:MET:O	5:Av:294:ALA:N	2.44	0.43
6:Ay:257:GLN:HG2	6:Ay:499:GLY:HA2	1.99	0.43
6:Az:346:ALA:HA	6:Az:349:SER:HB3	2.01	0.43
2:B1:29:LEU:HD13	2:B1:374:ILE:HB	2.01	0.43
2:B2:220:PRO:HG2	2:B2:338:LEU:HD11	1.99	0.43
2:B3:101:TYR:CE2	2:B3:143:ILE:HG12	2.53	0.43
2:B4:195:LEU:HD12	2:B4:201:ALA:HB1	1.99	0.43
2:B4:614:THR:O	2:B4:616:SER:N	2.47	0.43
2:B7:481:THR:HG23	2:B7:496:ARG:HD3	2.00	0.43
2:B7:596:LYS:HG2	2:B7:601:ILE:O	2.18	0.43
5:BA:21:LYS:NZ	5:BA:22:ASP:OD1	2.36	0.43
7:BC:306:ILE:HD11	5:BH:345:THR:HG21	2.00	0.43
6:BK:318:LYS:O	6:BK:329:ALA:HA	2.19	0.43
3:BX:80:ASP:O	3:BX:84:LYS:HG3	2.18	0.43
3:Bb:1:MET:HE3	3:Bb:1:MET:HB2	1.82	0.43
3:Bi:137:VAL:HG23	3:Bi:155:VAL:HG22	2.00	0.43
2:Bp:24:THR:O	2:Bp:483:ASN:ND2	2.40	0.43
2:Bq:164:GLY:H	2:Bq:167:TRP:CD1	2.36	0.43
2:Bq:571:ARG:HA	2:Bq:571:ARG:HD3	1.88	0.43
2:Bq:637:TYR:HB2	2:Br:622:GLU:HG2	1.99	0.43
2:Bs:110:TYR:H	2:Bs:138:GLY:HA3	1.83	0.43
2:Bs:383:LEU:HD11	2:Bs:436:TYR:CE2	2.53	0.43
2:Bt:39:PHE:HE1	2:Bt:86:ARG:HD2	1.84	0.43
2:Bt:464:VAL:HG12	2:Bu:313:ASP:HB3	2.00	0.43
2:Bt:510:ARG:HG2	2:Bt:511:GLN:H	1.83	0.43
2:Bu:57:PRO:HB3	2:Bu:62:ALA:HA	2.01	0.43
2:Bv:32:LYS:HG2	2:Bv:350:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:29:LEU:O	2:Bw:80:VAL:HA	2.18	0.43
2:Bw:49:ASP:OD1	2:Bw:49:ASP:N	2.50	0.43
2:Bx:540:THR:HG22	2:Bx:551:ILE:HG23	2.00	0.43
2:By:205:MET:HE1	2:By:221:GLY:O	2.17	0.43
2:By:455:LYS:HB2	2:By:470:LEU:HD13	1.99	0.43
4:O:9:PRO:HD3	4:O:57:VAL:HG21	1.99	0.43
1:l:87:ALA:HB2	1:m:26:ILE:HG23	1.99	0.43
1:n:231:TYR:CZ	8:u:12:ARG:HD2	2.53	0.43
8:r:75:ILE:HG12	8:r:122:ILE:HG12	2.00	0.43
2:2:117:THR:HG23	2:2:127:THR:HG22	2.00	0.43
3:7:41:LEU:HD12	3:7:41:LEU:HA	1.81	0.43
5:A0:306:ASN:CG	5:A0:310:ASN:HD21	2.26	0.43
5:A1:371:MET:HG2	5:BD:90:ASN:ND2	2.33	0.43
5:A2:26:GLU:HG3	5:A2:28:LEU:HD13	2.00	0.43
5:A2:411:GLN:O	5:A2:415:GLU:HG3	2.18	0.43
5:A3:396:ILE:HG21	5:A3:401:LEU:HG	1.99	0.43
7:A6:30:THR:HA	1:p:8:LEU:O	2.19	0.43
3:AA:47:GLU:HG2	3:AH:148:ASN:ND2	2.34	0.43
8:AB:229:VAL:HG13	2:AD:547:PRO:HG2	2.00	0.43
2:AK:164:GLY:H	2:AK:167:TRP:HD1	1.66	0.43
2:AN:103:ILE:HD13	2:AN:182:ILE:HG22	1.99	0.43
6:AV:149:GLY:H	6:AV:186:GLY:CA	2.31	0.43
6:AX:365:ALA:HB2	6:AX:372:GLU:HA	2.00	0.43
7:Aa:137:ASP:O	7:Aa:139:GLY:N	2.52	0.43
7:Aa:262:ILE:HA	7:Ab:25:ILE:HD13	2.00	0.43
6:Ac:426:ASP:OD2	6:Ac:433:TYR:OH	2.30	0.43
6:Ag:100:ARG:HB3	6:Ak:127:LEU:HB3	2.01	0.43
6:Ag:265:GLN:HA	6:Ag:473:PHE:O	2.19	0.43
6:Aj:304:ARG:HD2	6:Aj:304:ARG:HA	1.92	0.43
6:Ao:466:ASN:OD1	6:Ao:466:ASN:N	2.51	0.43
6:Ap:180:HIS:NE2	6:Ap:209:ASP:OD1	2.41	0.43
7:Aq:121:MET:HE1	7:Aq:129:TYR:CE1	2.52	0.43
6:Aw:259:ILE:HG12	6:Aw:260:GLU:H	1.82	0.43
6:Az:120:PRO:HD3	6:Az:453:TYR:CZ	2.53	0.43
2:B1:478:CYS:O	2:B1:555:ARG:NH1	2.51	0.43
2:B2:391:LYS:HG2	2:B2:443:ILE:HD13	2.00	0.43
2:B3:412:GLU:OE1	2:B3:412:GLU:N	2.49	0.43
2:B4:536:TYR:HD1	2:B4:536:TYR:HA	1.76	0.43
2:B5:108:SER:O	2:B5:177:GLY:HA2	2.18	0.43
2:B6:57:PRO:HG3	2:B6:65:PHE:HB3	2.00	0.43
2:B6:163:LEU:HD11	2:B6:187:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:346:SER:O	2:B7:350:VAL:HG23	2.19	0.43
5:BB:289:THR:HB	5:BB:292:MET:HE2	2.00	0.43
5:BG:121:LYS:O	5:BG:125:MET:HG3	2.19	0.43
5:BG:275:ARG:CZ	5:BG:355:ASN:HB2	2.48	0.43
5:BH:411:GLN:O	5:BH:415:GLU:HG3	2.18	0.43
5:BH:423:LYS:HB2	5:BH:437:TRP:CE2	2.53	0.43
6:BK:181:PHE:CD1	6:BK:187:THR:HB	2.50	0.43
6:BK:374:ASN:OD1	6:BK:374:ASN:N	2.47	0.43
11:BR:10:ILE:HD11	11:BR:35:TYR:HE1	1.84	0.43
3:Ba:60:VAL:HG22	3:Ba:61:ALA:H	1.84	0.43
3:Bd:83:GLN:HA	3:Bd:86:VAL:HG22	2.00	0.43
3:Bk:4:ASP:OD1	3:Bk:4:ASP:N	2.48	0.43
3:Bn:17:ARG:HG3	3:Bn:20:LEU:HD12	2.00	0.43
2:Bp:463:ASP:HB3	2:Bq:308:ASN:HB2	1.99	0.43
2:Bs:567:SER:O	2:Bs:571:ARG:HG2	2.18	0.43
2:Bt:242:ALA:O	2:Bt:246:LYS:HG3	2.18	0.43
2:Bt:478:CYS:O	2:Bt:555:ARG:NH1	2.44	0.43
2:Bw:37:PRO:HG3	2:Bw:226:TYR:CZ	2.54	0.43
2:Bw:550:ARG:HA	2:Bw:550:ARG:HE	1.83	0.43
2:By:202:GLU:H	2:By:202:GLU:HG3	1.69	0.43
2:Bz:195:LEU:HD23	2:Bz:195:LEU:H	1.83	0.43
1:k:156:ASP:HB3	1:k:157:PRO:HD3	2.00	0.43
1:p:239:ASN:OD1	1:p:239:ASN:N	2.51	0.43
8:r:62:GLN:HB3	8:r:63:GLU:H	1.55	0.43
8:r:116:MET:HG2	8:r:194:VAL:O	2.19	0.43
8:s:99:GLN:HB3	8:s:243:ASP:HB3	1.99	0.43
9:x:46:VAL:HG13	9:y:134:TRP:HZ2	1.84	0.43
2:2:556:LEU:HD23	2:2:560:LEU:HD13	2.01	0.43
2:4:229:GLU:N	2:4:345:SER:OG	2.52	0.43
2:5:635:ILE:HG22	2:AM:572:LEU:HA	2.01	0.43
5:A2:197:LYS:NZ	5:BF:215:TYR:OH	2.41	0.43
5:A3:376:PRO:HD3	5:A3:403:PHE:CD1	2.53	0.43
5:A3:398:ARG:HA	5:A3:398:ARG:HD2	1.71	0.43
5:A3:470:LEU:HD22	5:A3:491:LEU:HD21	2.01	0.43
5:A3:503:LYS:HD2	5:A3:503:LYS:HA	1.77	0.43
6:A4:486:GLU:HA	6:A4:509:LYS:O	2.18	0.43
7:A6:101:ASN:OD1	7:A6:106:TRP:N	2.50	0.43
6:A8:99:VAL:HG22	6:A9:444:MET:HB3	2.01	0.43
6:A8:328:LYS:HB2	6:A8:331:VAL:HG13	2.00	0.43
3:AA:21:PHE:CD1	3:o:142:LEU:HB3	2.54	0.43
9:AC:22:PRO:HB2	2:AD:571:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:594:GLY:HA2	3:o:8:ARG:HD3	2.00	0.43
2:AK:641:ASN:HB2	2:Bs:626:THR:HG22	2.00	0.43
2:AL:46:ASN:OD1	2:AL:47:GLU:N	2.51	0.43
2:AM:515:ASP:OD1	2:AN:5:SER:N	2.51	0.43
2:AN:223:VAL:O	2:AN:324:PHE:N	2.48	0.43
2:AN:654:LEU:HD23	2:AN:655:THR:H	1.84	0.43
2:AO:480:ARG:C	2:AO:482:ASP:H	2.27	0.43
6:AV:108:ALA:HB1	6:AV:306:VAL:HB	2.00	0.43
6:AV:263:SER:O	6:AZ:228:MET:N	2.52	0.43
6:AV:502:SER:O	6:AV:506:SER:OG	2.34	0.43
6:AZ:191:GLN:HB2	6:AZ:224:ILE:HG21	2.00	0.43
6:AZ:358:ASP:O	6:AZ:362:VAL:HG23	2.19	0.43
6:Af:385:VAL:HG21	6:Af:521:ILE:HD12	1.99	0.43
6:Aj:343:ALA:HB1	6:Aj:348:GLU:HG3	2.01	0.43
7:Al:55:LYS:HD3	7:Al:187:TRP:CZ2	2.54	0.43
6:An:131:TYR:CE1	6:An:141:LYS:HB2	2.48	0.43
7:Aq:162:TRP:CD1	7:As:55:LYS:H	2.36	0.43
2:B1:47:GLU:OE1	2:B1:461:TYR:OH	2.36	0.43
2:B2:241:LYS:HD3	2:B2:273:PRO:HB2	2.00	0.43
2:B3:100:GLU:HG3	2:B3:185:GLY:HA3	2.00	0.43
2:B6:46:ASN:OD1	2:B6:47:GLU:N	2.51	0.43
2:B6:373:PHE:HB2	2:B6:405:VAL:HG22	2.00	0.43
2:B7:557:PHE:CZ	2:B7:629:ILE:HD11	2.54	0.43
7:BE:134:PHE:O	5:BG:265:LYS:NZ	2.41	0.43
7:BE:189:LYS:O	7:BE:222:PRO:HG3	2.18	0.43
5:BF:423:LYS:HB2	5:BF:437:TRP:CE2	2.54	0.43
6:BJ:286:ALA:N	6:BJ:289:GLU:OE1	2.52	0.43
6:BM:223:GLU:CD	6:BM:223:GLU:H	2.26	0.43
11:BW:9:ASN:HB3	11:BW:56:TYR:CE2	2.52	0.43
3:BX:24:GLU:HB2	3:BX:114:ARG:HH12	1.83	0.43
3:BX:93:ALA:HB3	3:Bm:64:ARG:NH2	2.33	0.43
3:Bb:17:ARG:C	3:Be:151:GLN:HG3	2.44	0.43
3:Bc:23:VAL:HG22	3:Bc:36:CYS:SG	2.58	0.43
3:Bj:23:VAL:HG11	3:Bj:39:THR:HG21	2.00	0.43
2:Bq:57:PRO:HA	2:Bq:61:THR:HB	2.00	0.43
2:Bq:332:GLU:OE1	2:Bq:332:GLU:N	2.50	0.43
2:Br:195:LEU:H	2:Br:195:LEU:HD23	1.84	0.43
2:Br:295:LEU:HB3	2:Br:311:ILE:HG12	2.01	0.43
2:Bs:57:PRO:HB3	2:Bs:62:ALA:HA	2.01	0.43
2:Bt:49:ASP:OD1	2:Bt:49:ASP:N	2.50	0.43
2:Bv:77:ASP:OD1	2:Bv:78:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bv:264:THR:HG22	2:Bv:267:ALA:HB3	2.01	0.43
2:Bw:642:PHE:CE1	2:Bx:561:LYS:HG2	2.54	0.43
1:k:159:TYR:HD2	1:k:162:GLY:HA2	1.83	0.43
1:n:221:VAL:HG13	8:u:22:SER:HB2	2.01	0.43
2:2:281:ILE:HD12	2:2:295:LEU:HD12	2.01	0.43
2:3:556:LEU:HD23	2:3:560:LEU:HD13	2.00	0.43
2:4:101:TYR:CG	2:4:143:ILE:HD11	2.54	0.43
2:4:362:PHE:HD1	2:4:368:VAL:HG21	1.83	0.43
3:7:17:ARG:O	3:8:151:GLN:NE2	2.50	0.43
5:A2:10:ALA:HB3	5:A2:11:PRO:HD3	2.00	0.43
5:A2:167:PRO:HB2	5:A2:428:LEU:HD12	2.01	0.43
6:A5:379:SER:HB2	6:A5:380:ARG:NH1	2.34	0.43
6:A5:502:SER:H	6:A5:505:ASN:HB2	1.84	0.43
7:A6:23:PRO:HD2	7:A1:33:GLN:NE2	2.34	0.43
7:A6:301:ASP:OD1	7:A6:301:ASP:N	2.46	0.43
6:A7:258:VAL:HG11	6:AW:80:ALA:HB2	2.01	0.43
3:AA:62:GLY:O	3:AG:118:ARG:NH2	2.52	0.43
2:AD:413:THR:C	2:AD:417:ILE:HD11	2.44	0.43
3:AG:69:TRP:CE3	3:AG:132:LEU:HD21	2.54	0.43
3:AG:136:ASN:O	3:AG:136:ASN:ND2	2.52	0.43
3:AI:82:ARG:O	3:AI:86:VAL:HG13	2.18	0.43
2:AK:412:GLU:HA	2:AK:415:VAL:HG12	2.00	0.43
2:AL:162:THR:O	2:AL:186:LYS:HB3	2.19	0.43
2:AN:653:GLU:H	2:AN:653:GLU:HG2	1.68	0.43
2:AP:514:ARG:NH1	2:Bp:364:ASP:OD2	2.46	0.43
10:AU:320:GLU:HG3	10:AU:376:PRO:O	2.19	0.43
6:Ae:145:HIS:HD2	6:Ae:490:GLN:HG3	1.83	0.43
6:Af:96:MET:HB2	6:Aj:123:GLN:O	2.19	0.43
6:Af:264:ARG:NH1	6:Af:477:TYR:HH	2.16	0.43
6:Ai:377:ILE:HG23	6:Ai:435:THR:HB	2.01	0.43
6:Ak:318:LYS:HE3	6:Ak:327:SER:OG	2.19	0.43
6:An:107:ILE:O	6:An:303:ASN:ND2	2.44	0.43
6:An:265:GLN:NE2	6:BK:236:GLN:HG3	2.34	0.43
6:Ap:133:LYS:NZ	6:Ap:249:GLU:OE2	2.51	0.43
7:Ar:250:TYR:OH	7:Ar:294:ARG:NH2	2.49	0.43
7:At:271:LEU:N	7:At:275:VAL:O	2.50	0.43
6:Au:290:LEU:HG	6:Ay:252:PHE:HE1	1.83	0.43
6:Ay:494:SER:HA	11:BO:37:ASP:CG	2.44	0.43
2:B2:236:ILE:HD11	2:B2:323:ILE:HG21	2.00	0.43
2:B2:455:LYS:HD3	2:B2:502:VAL:HG13	2.01	0.43
2:B3:432:ALA:HB1	2:B3:440:ASN:HD22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:171:ILE:H	2:B6:171:ILE:HG12	1.56	0.43
2:B7:110:TYR:CE2	2:B7:177:GLY:HA3	2.53	0.43
2:B7:237:GLU:OE1	2:B7:284:ARG:NH2	2.41	0.43
5:BB:182:VAL:HG22	5:BB:208:TYR:HD1	1.82	0.43
5:BB:212:HIS:ND1	5:BB:212:HIS:O	2.51	0.43
5:BH:398:ARG:HD2	5:BH:398:ARG:HA	1.78	0.43
6:BJ:287:ASP:OD2	6:BJ:460:ARG:NH2	2.52	0.43
6:BJ:348:GLU:HB3	6:BJ:396:ALA:HB1	2.01	0.43
6:BK:487:SER:OG	6:BK:488:ALA:N	2.49	0.43
7:BL:127:ARG:HD3	6:BM:444:MET:HG2	2.00	0.43
11:BP:8:VAL:HG11	11:BP:35:TYR:CE2	2.53	0.43
11:BW:27:GLU:O	11:BW:58:THR:OG1	2.36	0.43
3:Be:41:LEU:HB3	3:Bh:140:LEU:HB3	2.00	0.43
3:Bi:41:LEU:H	3:Bi:41:LEU:HD12	1.84	0.43
3:Bi:46:VAL:HG22	3:Bi:64:ARG:HB2	2.00	0.43
2:Bs:44:VAL:HG11	2:Bs:50:LEU:HB2	2.00	0.43
2:Bu:130:LYS:HG3	2:Bu:144:ASN:HB3	1.99	0.43
2:Bu:387:SER:HB3	2:Bu:391:LYS:NZ	2.34	0.43
2:Bv:159:GLU:HB3	2:Bv:163:LEU:HA	2.00	0.43
2:Bv:406:LEU:HD13	2:Bv:475:ALA:HB2	1.99	0.43
2:Bx:315:PHE:HB3	2:Bx:324:PHE:CD1	2.54	0.43
4:J:44:MET:HE1	4:K:44:MET:HG2	1.99	0.43
4:S:8:LEU:O	4:S:19:GLN:NE2	2.52	0.43
1:l:176:TYR:CD1	8:s:71:ILE:HG23	2.53	0.43
1:m:224:ILE:HG13	1:n:71:ILE:HD12	2.00	0.43
1:m:243:LYS:N	8:s:4:TYR:H	2.16	0.43
3:o:24:GLU:CD	3:o:114:ARG:HH12	2.27	0.43
1:p:11:LYS:HE2	1:p:11:LYS:HB3	1.92	0.43
8:q:232:SER:OG	8:q:271:ARG:NH1	2.52	0.43
2:4:33:PHE:HA	2:4:61:THR:HG21	2.01	0.43
2:4:110:TYR:CZ	2:4:177:GLY:HA2	2.54	0.43
2:4:233:LYS:HE2	2:4:233:LYS:HB3	1.90	0.43
2:4:654:LEU:HD22	2:5:17:SER:HB3	2.01	0.43
2:5:96:ALA:HA	2:5:188:ILE:HB	2.00	0.43
2:5:614:THR:C	2:5:616:SER:H	2.26	0.43
3:6:10:PHE:O	3:6:11:GLU:HB2	2.18	0.43
3:8:20:LEU:HD21	9:v:56:LEU:HD21	2.01	0.43
5:A0:19:ASN:O	5:A0:23:GLN:HG2	2.18	0.43
5:A0:134:LEU:O	5:A0:137:LEU:C	2.61	0.43
5:A0:228:ILE:HG12	5:BG:196:THR:HG21	2.00	0.43
5:A1:186:ARG:HB2	5:A1:204:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:227:LYS:H	5:A2:227:LYS:HG2	1.56	0.43
5:A3:49:GLU:O	5:A3:52:SER:OG	2.33	0.43
5:A3:501:GLU:O	5:BF:482:SER:OG	2.37	0.43
6:A7:93:PRO:HB2	6:A8:123:GLN:HB3	2.00	0.43
6:A8:344:ARG:HD2	6:A9:344:ARG:NH1	2.34	0.43
6:A9:350:PHE:HD2	6:A9:389:VAL:HG13	1.83	0.43
3:AG:25:ILE:HG23	3:AG:111:ALA:HB2	1.99	0.43
2:AK:31:GLY:O	2:AK:82:ARG:HA	2.18	0.43
2:AL:400:ARG:HD3	2:AL:403:CYS:SG	2.59	0.43
2:AM:94:PRO:HD3	2:AM:340:LEU:HD22	2.01	0.43
2:AM:101:TYR:CZ	2:AM:143:ILE:HG12	2.54	0.43
2:AO:284:ARG:HE	2:AO:289:ILE:HD13	1.82	0.43
2:AO:510:ARG:HG2	2:AO:511:GLN:H	1.83	0.43
2:AP:51:VAL:HG22	2:AP:65:PHE:HZ	1.83	0.43
2:AP:536:TYR:HD1	2:AP:536:TYR:HA	1.69	0.43
10:AT:324:ASP:OD1	10:AT:324:ASP:N	2.51	0.43
6:AV:343:ALA:HB1	6:AV:348:GLU:HB2	2.01	0.43
6:AV:486:GLU:HG3	6:AV:509:LYS:HB3	2.00	0.43
7:AY:120:GLY:HA3	5:BD:78:THR:HG23	2.01	0.43
6:Ad:250:MET:HE2	6:Ad:250:MET:HB3	1.91	0.43
6:Ad:261:ALA:HA	6:Ad:478:GLY:HA3	2.00	0.43
6:Ad:346:ALA:HA	6:Ad:349:SER:HB3	2.00	0.43
6:Ae:151:ASP:HB3	6:Ae:154:PHE:HB2	2.01	0.43
6:Aj:278:LEU:HD23	6:Aj:286:ALA:HB2	2.00	0.43
7:Al:92:ILE:HD11	6:Ap:465:LYS:HA	1.99	0.43
7:Al:96:THR:HA	7:Al:106:TRP:CZ3	2.53	0.43
7:Al:306:ILE:HB	5:BG:308:MET:HG3	2.00	0.43
6:An:332:PHE:HB3	6:An:518:VAL:HG12	2.00	0.43
6:An:356:GLN:O	6:An:360:GLU:HG2	2.19	0.43
6:Ao:459:LEU:HB3	6:BK:467:PHE:CD2	2.53	0.43
6:Aw:381:ASN:HB3	6:Aw:521:ILE:HD13	2.01	0.43
6:Aw:383:VAL:HG12	6:Aw:406:THR:HG22	1.99	0.43
5:Ax:338:ARG:HG2	5:Ax:343:ALA:HA	2.00	0.43
6:Ay:261:ALA:HA	6:Ay:478:GLY:HA3	2.00	0.43
6:Ay:310:ILE:HG12	6:Ay:448:ILE:HG21	2.01	0.43
2:B3:31:GLY:O	2:B3:82:ARG:HA	2.19	0.43
2:B3:109:ASN:N	2:B3:138:GLY:HA3	2.34	0.43
2:B3:429:TRP:CZ2	2:B3:441:PHE:HB2	2.54	0.43
2:B4:240:SER:OG	2:B4:243:ASP:OD1	2.37	0.43
2:B6:3:LEU:HD11	2:B6:9:GLU:HB2	2.00	0.43
2:B7:2:THR:OG1	2:B7:3:LEU:N	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BF:367:GLN:HA	5:BF:377:LEU:HD11	2.01	0.43
6:BJ:445:ASP:N	6:BJ:445:ASP:OD1	2.49	0.43
7:BL:263:LEU:HD13	7:BL:277:ILE:HG21	1.99	0.43
3:Ba:24:GLU:OE1	3:Ba:33:THR:OG1	2.36	0.43
3:Bb:23:VAL:HG22	3:Bb:36:CYS:SG	2.58	0.43
3:Bf:2:PHE:HB3	3:Bk:97:ASN:HB3	2.01	0.43
3:Bj:143:ASP:OD2	3:Bj:145:ASP:HB2	2.19	0.43
2:Bq:108:SER:O	2:Bq:177:GLY:HA2	2.18	0.43
2:Bq:458:TYR:HE1	2:Bq:460:LYS:HA	1.83	0.43
2:Bs:256:PRO:HG2	2:Bs:339:THR:H	1.82	0.43
2:Bt:47:GLU:OE1	2:Bt:461:TYR:OH	2.34	0.43
2:Bt:171:ILE:HG22	2:Bt:172:SER:H	1.84	0.43
2:Bt:596:LYS:HG2	2:Bt:601:ILE:O	2.19	0.43
2:Bw:389:VAL:O	2:Bw:393:VAL:HG23	2.18	0.43
2:Bw:406:LEU:HD13	2:Bw:475:ALA:HB2	2.01	0.43
2:Bz:57:PRO:CB	2:Bz:62:ALA:HA	2.49	0.43
2:Bz:121:VAL:HG13	2:Bz:166:ASN:HB3	2.01	0.43
4:P:27:ASN:HB3	4:j:38:TYR:CE2	2.53	0.43
4:c:36:THR:OG1	4:c:39:GLY:N	2.45	0.43
1:n:95:GLY:HA2	1:p:158:PHE:CD1	2.54	0.43
8:q:47:GLU:HB2	8:r:184:ARG:CZ	2.49	0.43
9:y:37:VAL:HG22	9:y:73:VAL:HG13	2.01	0.43
2:1:143:ILE:HD12	2:1:145:ILE:HD11	2.00	0.43
2:1:297:THR:HG21	2:1:330:TRP:CG	2.54	0.43
2:1:317:LYS:HE3	2:1:317:LYS:HB2	1.80	0.43
2:1:538:ASP:O	2:1:550:ARG:HD3	2.18	0.43
2:3:31:GLY:HA3	2:3:64:TYR:CD1	2.54	0.43
2:5:372:LEU:HD21	2:5:475:ALA:O	2.18	0.43
5:A3:125:MET:O	5:A3:129:GLU:HG2	2.18	0.43
5:A3:293:PRO:O	5:A3:295:ARG:N	2.51	0.43
7:A6:43:GLU:O	7:A6:47:GLU:HG2	2.19	0.43
6:A7:318:LYS:NZ	6:A7:356:GLN:OE1	2.36	0.43
6:A8:432:ASP:HB3	6:A8:518:VAL:HG23	2.00	0.43
2:AD:574:GLU:HB3	2:AD:580:THR:HG21	2.01	0.43
3:AE:9:ALA:HB2	3:AF:34:PHE:HB2	2.01	0.43
3:AE:83:GLN:HA	3:AE:86:VAL:HG22	2.00	0.43
3:AF:43:ALA:O	3:AF:162:TRP:NE1	2.51	0.43
3:AG:85:PHE:HB3	3:AG:137:VAL:HG21	2.00	0.43
3:AJ:143:ASP:OD2	3:AJ:146:SER:N	2.52	0.43
2:AK:121:VAL:HG22	2:AK:166:ASN:HB3	2.01	0.43
2:AK:456:TYR:CE1	2:AK:465:ASN:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:410:PRO:O	2:AL:413:THR:HG22	2.19	0.43
2:AM:137:ASP:OD1	2:AM:137:ASP:N	2.47	0.43
2:AM:147:THR:HG22	2:AM:150:ILE:HD12	2.01	0.43
2:AM:505:LEU:HD21	2:AM:525:VAL:HG12	2.00	0.43
2:AP:51:VAL:HG21	2:AP:461:TYR:OH	2.19	0.43
2:AP:430:ARG:NH2	2:AP:443:ILE:O	2.52	0.43
10:AS:309:TRP:HB3	10:AS:356:SER:HB3	2.01	0.43
6:AV:376:ILE:HG12	6:AV:436:VAL:HG22	1.99	0.43
6:AX:379:SER:OG	6:AX:432:ASP:OD1	2.32	0.43
6:AZ:71:ASP:HB3	6:Ah:230:THR:HB	2.01	0.43
6:Ag:131:TYR:HA	6:Ag:250:MET:HA	2.01	0.43
7:Al:88:LEU:HD13	7:Al:183:ILE:HG22	2.00	0.43
7:Al:305:GLY:HA2	5:BG:304:VAL:HG13	2.01	0.43
6:Am:356:GLN:O	6:Am:360:GLU:HG2	2.18	0.43
7:Aq:18:ARG:HA	7:Aq:22:ALA:HA	2.00	0.43
7:Aq:110:PHE:HA	7:Aq:115:ALA:HB3	2.01	0.43
5:Ax:160:LYS:HE2	5:Ax:424:THR:OG1	2.19	0.43
5:Ax:504:GLN:OE1	5:BA:484:ARG:NH2	2.39	0.43
2:B1:644:ALA:O	2:B1:645:THR:OG1	2.29	0.43
2:B6:332:GLU:OE1	2:B6:332:GLU:N	2.34	0.43
2:B7:246:LYS:HB2	2:B7:250:ALA:HB2	2.01	0.43
2:B7:254:ILE:HG22	2:B7:257:GLY:H	1.83	0.43
2:B7:268:VAL:HG21	2:B7:282:ILE:HD13	2.01	0.43
2:B7:446:THR:OG1	2:B7:554:ARG:NH2	2.49	0.43
2:B7:607:VAL:HB	2:B7:626:THR:OG1	2.18	0.43
5:BA:10:ALA:HB3	5:BA:11:PRO:HD3	2.01	0.43
5:BB:32:THR:OG1	5:BB:35:LYS:NZ	2.52	0.43
5:BB:260:PRO:O	5:BB:369:LEU:HB2	2.18	0.43
5:BD:470:LEU:HD23	5:BD:470:LEU:HA	1.86	0.43
6:BM:442:ASN:OD1	6:BM:443:GLU:N	2.52	0.43
11:BQ:12:THR:HG22	11:BQ:46:TYR:HB3	2.01	0.43
3:BX:44:GLY:HA3	3:Ba:89:GLN:HE22	1.84	0.43
3:Bc:132:LEU:HD13	3:Bc:159:LEU:HB3	2.01	0.43
3:Bf:22:GLN:HB2	3:Bf:116:TYR:HE1	1.84	0.43
3:Bh:23:VAL:HG12	3:Bh:113:VAL:HB	2.01	0.43
3:Bi:43:ALA:O	3:Bi:162:TRP:NE1	2.51	0.43
3:Bl:17:ARG:HG3	3:Bl:20:LEU:HD12	2.01	0.43
2:Br:90:LYS:HD2	2:Br:192:GLY:H	1.84	0.43
2:Bu:57:PRO:HG3	2:Bu:65:PHE:HB3	1.99	0.43
2:Bv:451:ASP:OD2	2:Bv:470:LEU:HB3	2.19	0.43
2:By:601:ILE:H	2:By:601:ILE:HG13	1.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:h:8:LEU:O	4:h:19:GLN:NE2	2.51	0.43
4:h:9:PRO:HD3	4:h:57:VAL:HG21	2.01	0.43
1:l:154:PRO:HG2	1:l:155:TYR:CD2	2.54	0.43
1:l:159:TYR:HB3	1:l:162:GLY:HA2	2.00	0.43
1:p:147:PHE:HB3	1:p:171:ALA:HB1	2.01	0.43
2:1:28:ALA:HB2	2:1:370:VAL:HG21	2.01	0.43
2:3:401:GLN:OE1	8:s:257:SER:OG	2.31	0.43
2:3:600:GLY:O	2:3:632:ALA:HB2	2.19	0.43
2:3:620:ARG:NH2	8:s:266:GLU:O	2.51	0.43
2:4:225:LEU:HB3	2:4:324:PHE:HB2	2.01	0.43
2:4:480:ARG:C	2:4:482:ASP:H	2.27	0.43
2:5:368:VAL:O	2:5:400:ARG:NH2	2.51	0.43
3:6:97:ASN:HD21	3:AG:4:ASP:CG	2.27	0.43
3:7:46:VAL:HG22	3:7:64:ARG:HD2	2.00	0.43
5:A2:62:PHE:CE1	5:A2:227:LYS:HG3	2.54	0.43
5:A3:158:PHE:HB2	5:A3:236:VAL:HB	1.99	0.43
7:A6:12:LEU:HD21	7:A6:248:LYS:HG2	2.01	0.43
6:A8:267:LYS:HD3	6:A9:247:TRP:CG	2.54	0.43
6:A8:430:LYS:HD2	6:A9:182:PHE:HE2	1.82	0.43
3:AE:21:PHE:HZ	3:AE:38:ALA:HA	1.84	0.43
3:AG:16:ALA:HB2	3:AH:76:ASP:O	2.18	0.43
3:AG:83:GLN:HA	3:AG:86:VAL:HG22	2.01	0.43
2:AL:33:PHE:HA	2:AL:61:THR:HG23	2.01	0.43
2:AL:332:GLU:OE1	2:AL:332:GLU:N	2.50	0.43
2:AL:642:PHE:CZ	2:Bv:564:ILE:HD11	2.54	0.43
2:AM:637:TYR:HD2	2:By:622:GLU:HG2	1.83	0.43
2:AO:137:ASP:OD1	2:AO:137:ASP:N	2.47	0.43
2:AO:209:ASP:OD1	2:AO:210:PHE:N	2.52	0.43
2:AP:130:LYS:HD3	2:AP:144:ASN:HB3	2.00	0.43
6:AX:133:LYS:HG2	6:AX:249:GLU:HB3	2.00	0.43
7:Aa:257:GLU:OE1	7:Aa:290:LYS:NZ	2.40	0.43
6:Ad:147:MET:O	6:Ad:185:THR:N	2.52	0.43
6:Ad:179:THR:HG22	6:Ad:189:TYR:CD2	2.54	0.43
6:Ae:158:GLY:HA2	6:Ae:163:PHE:HE2	1.84	0.43
6:Ae:247:TRP:CZ3	6:Ay:265:GLN:HB2	2.54	0.43
6:Ag:128:ARG:CZ	6:Ag:491:ALA:H	2.32	0.43
6:Aj:191:GLN:HB2	6:Aj:224:ILE:HG21	2.00	0.43
6:Ak:130:VAL:HG12	6:Ak:142:GLU:HA	2.01	0.43
6:An:265:GLN:NE2	6:BK:236:GLN:HE21	2.17	0.43
6:Ao:337:PRO:HA	6:Ao:340:ILE:HG12	2.00	0.43
6:Ap:90:GLN:HG3	7:BE:96:THR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:At:254:LEU:HD23	7:At:290:LYS:NZ	2.34	0.43
5:Ax:292:MET:HG2	5:Ax:293:PRO:HD2	2.01	0.43
5:Ax:411:GLN:O	5:Ax:415:GLU:HG3	2.19	0.43
2:B4:391:LYS:NZ	2:B4:440:ASN:O	2.47	0.43
2:B5:66:MET:HG2	2:B5:468:VAL:HG21	2.00	0.43
2:B5:510:ARG:HG2	2:B5:511:GLN:H	1.83	0.43
2:B6:131:ILE:HD13	2:B6:140:ILE:HG21	2.01	0.43
2:B6:495:ASN:HB2	2:B6:496:ARG:HE	1.83	0.43
2:B6:538:ASP:HA	2:B6:551:ILE:HD12	2.00	0.43
2:B7:517:LEU:HG	2:B7:522:ILE:HB	2.01	0.43
7:BC:222:PRO:O	7:BC:225:ASN:ND2	2.40	0.43
5:BG:366:ARG:NH2	5:BG:382:GLN:HG2	2.34	0.43
6:BJ:259:ILE:HG21	6:BJ:480:GLY:HA3	2.00	0.43
7:BL:163:PHE:HA	7:BL:170:LEU:HA	2.00	0.43
3:Bd:56:ARG:HG3	3:Bj:99:ILE:HG12	2.00	0.43
2:Bp:130:LYS:HE2	2:Bp:130:LYS:HB2	1.84	0.43
2:Bq:135:ASP:OD1	2:Bq:136:ALA:N	2.52	0.43
2:Bq:252:LEU:HB3	2:Bq:336:GLY:HA2	2.01	0.43
2:Bq:416:GLY:H	2:Bq:417:ILE:HD13	1.83	0.43
2:Bq:617:VAL:HG22	2:Bq:622:GLU:HB2	2.01	0.43
2:Bs:527:GLY:HA2	2:Bs:533:TYR:CD1	2.54	0.43
2:Bt:237:GLU:HB3	2:Bt:282:ILE:HB	2.01	0.43
2:Bt:413:THR:C	2:Bt:417:ILE:HD11	2.44	0.43
2:Bt:637:TYR:HB3	2:Bw:3:LEU:HD12	2.00	0.43
2:Bx:157:VAL:HG23	2:Bx:159:GLU:H	1.84	0.43
2:By:102:THR:HB	2:By:183:THR:HB	2.01	0.43
4:M:9:PRO:HD3	4:M:57:VAL:HG21	1.99	0.43
4:U:47:PRO:O	4:U:51:VAL:HG23	2.19	0.43
4:d:62:ILE:HD12	4:i:58:LEU:HD22	1.99	0.43
1:k:49:GLU:HG3	1:k:50:SER:N	2.34	0.43
8:q:26:ILE:HD12	8:q:129:ASP:HB3	2.00	0.43
8:q:217:HIS:CD2	8:q:229:VAL:HG23	2.54	0.43
8:s:46:LYS:HB3	8:s:51:MET:CG	2.49	0.43
8:s:91:ASN:O	8:s:110:ASN:ND2	2.51	0.43
1:0:242:GLY:HA3	8:AB:4:TYR:H	1.83	0.42
2:3:293:VAL:HG22	2:3:294:VAL:H	1.84	0.42
2:4:191:SER:HB3	2:4:342:GLY:HA3	2.01	0.42
2:4:498:GLN:HA	2:4:534:VAL:HA	1.99	0.42
2:4:528:THR:HA	2:AL:367:SER:HA	2.01	0.42
2:4:628:TYR:HD2	8:t:217:HIS:HB2	1.84	0.42
2:5:117:THR:HG23	2:5:127:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:3:VAL:HG11	3:8:9:ALA:HB2	2.02	0.42
3:9:20:LEU:HD23	9:w:54:PHE:HB3	2.01	0.42
4:A:47:PRO:HB2	4:Q:48:THR:HG21	2.00	0.42
5:A3:465:ARG:NH2	5:BG:464:GLU:OE1	2.49	0.42
5:A3:508:GLU:HG2	5:BF:483:HIS:HB3	2.01	0.42
6:A8:435:THR:HB	6:A8:515:ARG:HB2	2.01	0.42
2:AD:303:ASP:OD1	2:AD:304:ILE:N	2.51	0.42
3:AH:54:MET:SD	3:Bg:1:MET:HE1	2.59	0.42
2:AM:37:PRO:HG3	2:AM:226:TYR:CZ	2.54	0.42
2:AO:142:LYS:HE2	2:AO:142:LYS:HB2	1.83	0.42
2:AP:205:MET:HE3	2:AP:324:PHE:HD1	1.83	0.42
10:AU:309:TRP:H	10:AU:356:SER:HB3	1.83	0.42
6:AW:265:GLN:HA	6:AW:473:PHE:O	2.19	0.42
6:AX:258:VAL:HG21	6:BK:76:ALA:HA	2.00	0.42
6:AX:260:GLU:OE2	6:BK:72:HIS:ND1	2.48	0.42
6:AX:337:PRO:HA	6:AX:340:ILE:HG12	2.01	0.42
6:AX:346:ALA:HB2	6:Az:341:ARG:HB2	2.01	0.42
6:AX:383:VAL:HG12	6:AX:406:THR:HG22	2.01	0.42
6:Ac:265:GLN:HG2	6:Ac:474:LYS:HB3	2.00	0.42
6:Ae:267:LYS:HE3	6:Ai:247:TRP:CD2	2.54	0.42
6:Ae:452:PRO:HB3	6:Ae:477:TYR:HD1	1.83	0.42
6:Ah:345:TRP:CE2	6:BI:348:GLU:HG2	2.54	0.42
6:Ai:154:PHE:CE2	6:Ai:248:ASN:HB3	2.54	0.42
6:Am:151:ASP:HB3	6:Am:154:PHE:HB2	2.00	0.42
6:Am:430:LYS:HA	6:Am:430:LYS:HD3	1.84	0.42
6:Ap:363:GLU:OE2	6:Ap:367:GLN:NE2	2.52	0.42
5:Av:287:VAL:HB	5:Av:301:MET:SD	2.59	0.42
5:Av:484:ARG:HE	5:BB:504:GLN:NE2	2.17	0.42
6:Aw:123:GLN:CD	6:BM:93:PRO:HG2	2.44	0.42
6:Aw:133:LYS:HB2	6:Aw:133:LYS:HE3	1.83	0.42
6:Aw:344:ARG:NE	6:Aw:348:GLU:OE2	2.52	0.42
2:B1:64:TYR:CE1	2:B1:377:SER:HA	2.54	0.42
2:B1:238:ILE:HG12	2:B1:281:ILE:HG23	2.00	0.42
2:B2:110:TYR:H	2:B2:138:GLY:CA	2.31	0.42
2:B2:116:ILE:HD11	2:B2:131:ILE:HG13	2.01	0.42
2:B3:614:THR:O	2:B3:616:SER:N	2.46	0.42
2:B5:371:GLN:OE1	2:B5:562:THR:OG1	2.23	0.42
2:B5:488:TRP:O	2:B5:552:ASN:OD1	2.36	0.42
2:B5:549:ASP:O	2:B5:550:ARG:NE	2.50	0.42
2:B7:100:GLU:HG3	2:B7:185:GLY:HA3	2.00	0.42
5:BA:117:LYS:HD3	5:BA:117:LYS:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BA:292:MET:O	5:BA:294:ALA:N	2.46	0.42
5:BB:160:LYS:NZ	5:BB:233:ALA:O	2.52	0.42
5:BB:191:GLU:N	5:BB:198:ILE:O	2.52	0.42
7:BC:59:VAL:HG12	7:BC:183:ILE:HG13	2.01	0.42
5:BD:259:LYS:HB3	5:BD:260:PRO:HD3	2.01	0.42
5:BF:244:ASP:HB2	5:BF:251:ILE:HD12	2.02	0.42
6:BM:234:GLU:HB3	6:BM:235:LEU:HD12	2.01	0.42
3:BZ:114:ARG:HH21	3:BZ:116:TYR:HH	1.64	0.42
2:Bs:410:PRO:O	2:Bs:413:THR:HG22	2.18	0.42
2:By:654:LEU:HD13	2:Bz:605:ARG:HD3	2.01	0.42
2:Bz:103:ILE:HD13	2:Bz:182:ILE:HG22	2.00	0.42
1:p:61:VAL:HB	1:p:137:LEU:HB2	2.01	0.42
8:u:238:VAL:HG13	8:u:239:PRO:HD2	2.01	0.42
9:v:13:ASN:HD22	9:v:15:THR:H	1.67	0.42
2:1:202:GLU:OE1	2:1:203:ALA:N	2.53	0.42
2:3:32:LYS:HD2	2:3:347:ASN:HB3	2.01	0.42
2:3:96:ALA:HB2	2:3:191:SER:HA	2.01	0.42
2:5:22:ASN:N	2:5:22:ASN:OD1	2.52	0.42
2:5:601:ILE:HD13	2:5:629:ILE:HB	2.00	0.42
5:A0:243:VAL:HG12	5:A0:250:ILE:HG12	2.01	0.42
5:A2:301:MET:HE2	7:BL:304:PHE:HZ	1.84	0.42
5:A3:226:THR:HG21	5:BF:196:THR:HG22	2.01	0.42
6:A4:355:PHE:CE2	6:A4:359:LYS:HD2	2.54	0.42
6:A5:346:ALA:HB2	6:AW:341:ARG:HD3	2.01	0.42
6:A7:236:GLN:HB2	6:A7:247:TRP:CZ2	2.54	0.42
8:AB:79:LEU:HD12	8:AB:118:TYR:CZ	2.54	0.42
2:AD:381:GLU:HB3	2:AD:385:THR:HG23	2.01	0.42
3:AE:106:GLU:O	3:AE:109:LYS:NZ	2.52	0.42
3:AI:23:VAL:HG22	3:AI:36:CYS:SG	2.59	0.42
2:AK:545:PRO:HB2	2:AL:304:ILE:HD13	2.00	0.42
2:AM:427:VAL:O	2:AM:431:THR:OG1	2.35	0.42
2:AO:373:PHE:HB2	2:AO:405:VAL:HG22	2.00	0.42
2:AP:510:ARG:HG2	2:AP:511:GLN:H	1.84	0.42
6:AV:87:ALA:O	6:BJ:495:ARG:NH2	2.51	0.42
6:AX:253:ARG:NH2	6:AX:255:ASP:OD2	2.53	0.42
7:Ab:95:ILE:HG22	7:Ar:108:THR:HG23	2.00	0.42
6:Ae:230:THR:O	6:Ae:234:GLU:HG2	2.18	0.42
6:Ag:494:SER:C	6:Ag:496:ILE:H	2.27	0.42
6:Ah:223:GLU:CD	6:Ah:223:GLU:H	2.28	0.42
6:Aj:145:HIS:NE2	6:Aj:487:SER:O	2.52	0.42
6:Ak:80:ALA:HA	6:Ak:93:PRO:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Am:112:CYS:SG	6:Am:310:ILE:HD11	2.59	0.42
6:Am:279:ARG:NH2	6:Am:285:ASP:OD1	2.52	0.42
6:An:387:ALA:HB2	6:An:404:PHE:HB2	2.00	0.42
6:Ap:118:ASN:OD1	6:Ap:118:ASN:N	2.48	0.42
7:Ar:221:ASN:HB3	7:Ar:224:HIS:CD2	2.54	0.42
5:Ax:218:ASP:OD1	5:Ax:219:GLY:N	2.52	0.42
6:Ay:141:LYS:HA	6:Ay:490:GLN:HG2	2.01	0.42
2:B1:438:ASP:OD1	2:B1:438:ASP:N	2.39	0.42
2:B4:455:LYS:HB3	2:B4:470:LEU:HD13	2.01	0.42
2:B7:31:GLY:O	2:B7:82:ARG:HA	2.19	0.42
5:BB:366:ARG:NH2	5:BB:382:GLN:HG2	2.34	0.42
7:BC:171:LYS:HD2	7:BE:219:TYR:CE2	2.54	0.42
5:BF:50:ALA:HA	5:BF:55:ASN:ND2	2.34	0.42
5:BG:212:HIS:HD1	5:BG:222:TYR:HA	1.84	0.42
5:BH:94:GLU:HG3	5:BH:379:ARG:HH21	1.83	0.42
7:BL:234:ASP:N	7:BL:234:ASP:OD1	2.52	0.42
3:Bd:140:LEU:HD21	3:Bd:151:GLN:NE2	2.33	0.42
3:Bl:16:ALA:HB2	3:Bo:76:ASP:O	2.20	0.42
3:Bl:42:PRO:HG2	3:Bl:127:ILE:HD11	2.02	0.42
3:Bl:60:VAL:HG21	3:Bo:104:PRO:HG3	2.01	0.42
3:Bl:109:LYS:O	3:Bl:132:LEU:N	2.47	0.42
3:Bn:70:THR:HG22	3:Bn:156:THR:HG22	2.00	0.42
3:Bn:94:GLY:HA3	3:Bn:100:THR:OG1	2.20	0.42
2:Bq:495:ASN:HD22	2:Bq:495:ASN:H	1.66	0.42
2:Br:131:ILE:HD13	2:Br:140:ILE:HG21	2.00	0.42
2:Bu:547:PRO:HG3	2:Bx:305:TYR:CE1	2.54	0.42
2:Bw:131:ILE:HD13	2:Bw:140:ILE:HG21	2.01	0.42
2:Bx:109:ASN:HA	2:Bx:137:ASP:HB2	2.00	0.42
4:I:10:PHE:HA	4:I:20:SER:O	2.20	0.42
4:U:9:PRO:O	4:U:20:SER:N	2.52	0.42
1:k:220:GLU:CD	8:r:46:LYS:HZ1	2.26	0.42
1:l:103:PHE:CD1	8:s:51:MET:HE3	2.53	0.42
1:l:223:GLN:NE2	1:m:69:ASP:OD1	2.51	0.42
1:m:45:VAL:HG11	1:n:9:PHE:HE2	1.83	0.42
1:n:213:ILE:O	8:u:55:LYS:HD2	2.19	0.42
3:o:10:PHE:O	3:o:11:GLU:HB2	2.20	0.42
1:p:26:ILE:HG22	1:p:27:LEU:HB2	2.00	0.42
1:p:27:LEU:HD22	1:p:27:LEU:HA	1.88	0.42
1:p:56:VAL:N	1:p:88:ALA:O	2.42	0.42
8:q:232:SER:HB2	8:q:256:THR:OG1	2.19	0.42
8:s:61:SER:OG	8:s:62:GLN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u:134:VAL:HG21	8:u:188:TRP:CE3	2.54	0.42
1:0:44:ASP:HB2	1:0:163:GLN:NE2	2.33	0.42
2:1:451:ASP:OD1	2:1:452:GLY:N	2.45	0.42
2:1:594:GLY:HA2	3:6:8:ARG:HD3	2.01	0.42
2:3:226:TYR:HA	2:3:227:PRO:HD3	1.90	0.42
2:3:598:LEU:HD23	2:3:598:LEU:HA	1.92	0.42
2:3:614:THR:C	2:3:616:SER:H	2.28	0.42
2:4:4:LEU:HG	2:4:5:SER:H	1.85	0.42
2:4:638:ILE:HB	2:5:8:ILE:HG22	2.00	0.42
3:8:138:GLY:HA3	3:8:153:PHE:HB2	2.01	0.42
3:9:125:LYS:HG2	3:AA:79:HIS:CD2	2.55	0.42
5:A2:248:LYS:HD3	5:BF:217:CYS:H	1.83	0.42
5:A3:320:LYS:HE3	5:A3:322:LYS:HG2	2.00	0.42
7:A6:161:PHE:HB2	7:A6:170:LEU:HD11	2.00	0.42
6:A7:430:LYS:HA	6:A7:430:LYS:HD3	1.91	0.42
6:A8:128:ARG:NE	6:A8:492:PRO:HD3	2.35	0.42
3:AE:138:GLY:HA3	3:AJ:43:ALA:HA	2.01	0.42
3:AF:94:GLY:HA3	3:AF:100:THR:OG1	2.19	0.42
2:AK:455:LYS:HD2	2:AK:502:VAL:HG22	2.02	0.42
2:AL:254:ILE:HG22	2:AL:257:GLY:H	1.84	0.42
2:AL:289:ILE:H	2:AL:289:ILE:HG12	1.65	0.42
6:AV:245:ASN:OD1	6:AV:245:ASN:N	2.52	0.42
6:AV:269:ALA:HA	6:AV:470:VAL:HA	2.00	0.42
6:AX:269:ALA:HA	6:AX:470:VAL:HA	2.01	0.42
7:Aa:55:LYS:HB3	7:Aa:187:TRP:CE3	2.54	0.42
7:Ab:126:ASN:OD1	7:Ab:126:ASN:N	2.52	0.42
7:Ab:189:LYS:HE2	7:Ab:189:LYS:HB3	1.77	0.42
7:Ab:221:ASN:HB3	7:Ab:224:HIS:CE1	2.54	0.42
6:Ac:244:ASP:HB2	11:BW:13:PHE:HE2	1.84	0.42
6:Ag:398:GLN:HG3	6:Ak:351:LYS:HD3	2.01	0.42
6:Ag:515:ARG:NH2	6:Ag:517:TYR:OH	2.44	0.42
6:Ah:380:ARG:HB3	6:BI:362:VAL:HG11	2.01	0.42
6:Ah:384:ASN:HD21	6:BI:362:VAL:HG21	1.85	0.42
6:Am:344:ARG:NH2	6:Am:348:GLU:OE1	2.52	0.42
6:Am:355:PHE:CE2	6:Am:359:LYS:HD2	2.55	0.42
6:Am:379:SER:OG	6:Am:432:ASP:OD1	2.34	0.42
6:Am:397:ALA:HA	6:BJ:394:SER:O	2.18	0.42
6:Ao:313:SER:HB2	6:Ao:510:ASN:HB2	2.00	0.42
6:Ao:378:ALA:HB1	6:Ao:382:VAL:HB	2.00	0.42
5:Av:292:MET:HE3	5:Av:297:ALA:HA	2.01	0.42
6:Az:181:PHE:HD1	6:Az:187:THR:HB	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:153:LYS:HB3	2:B1:167:TRP:CH2	2.54	0.42
2:B3:567:SER:O	2:B3:571:ARG:HG2	2.19	0.42
2:B6:410:PRO:O	2:B6:413:THR:HG22	2.19	0.42
2:B7:101:TYR:OH	2:B7:143:ILE:O	2.26	0.42
7:BC:61:TYR:CZ	7:BC:181:LEU:HD21	2.54	0.42
7:BE:154:MET:HE3	7:BE:154:MET:HB3	1.92	0.42
5:BG:496:GLU:CD	5:BG:496:GLU:H	2.28	0.42
5:BH:277:THR:HG23	5:BH:278:ARG:HG3	2.01	0.42
6:BI:311:ASN:ND2	6:BI:433:TYR:OH	2.52	0.42
6:BM:503:ILE:HA	6:BM:507:LEU:HB2	2.02	0.42
2:Bq:450:ILE:HG21	2:Bq:522:ILE:HG12	2.01	0.42
2:Br:89:ALA:HA	2:Br:345:SER:O	2.19	0.42
2:Bs:160:TYR:HA	2:Bs:161:PRO:HA	1.87	0.42
2:Bt:410:PRO:O	2:Bt:413:THR:HG22	2.19	0.42
2:Bu:101:TYR:CG	2:Bu:143:ILE:HD11	2.54	0.42
2:Bv:39:PHE:HB3	2:Bv:361:PHE:CE2	2.54	0.42
2:Bv:234:ILE:HB	2:Bv:340:LEU:HD12	2.00	0.42
2:Bw:70:ASN:OD1	2:Bw:457:GLN:NE2	2.52	0.42
2:Bx:374:ILE:HG22	2:Bx:376:GLY:H	1.83	0.42
2:Bz:26:THR:HB	2:Bz:77:ASP:HB3	2.01	0.42
1:l:66:VAL:O	1:l:77:LYS:HB2	2.18	0.42
1:p:122:LEU:HD11	1:p:126:GLN:HE21	1.84	0.42
8:t:128:ASP:O	8:t:132:GLN:HG3	2.18	0.42
2:5:261:ARG:NH2	2:5:337:ILE:HD13	2.34	0.42
2:5:295:LEU:HB3	2:5:311:ILE:HG12	2.01	0.42
5:A0:105:ASP:N	5:A0:105:ASP:OD1	2.51	0.42
5:A1:196:THR:OG1	5:A1:197:LYS:N	2.52	0.42
5:A3:68:GLY:HA2	6:AV:116:PRO:HG3	2.01	0.42
5:A3:467:ILE:HD13	5:BF:473:ALA:HB2	2.02	0.42
6:A4:247:TRP:CH2	7:As:98:MET:HG2	2.51	0.42
6:A4:247:TRP:CZ3	7:As:99:ASP:HB2	2.55	0.42
6:A5:482:ASN:HB3	6:A5:485:ALA:HB2	2.01	0.42
6:A8:265:GLN:NE2	6:A9:236:GLN:HG3	2.35	0.42
3:AA:10:PHE:HE1	3:o:35:GLN:HG2	1.84	0.42
3:AE:136:ASN:ND2	3:AE:136:ASN:O	2.52	0.42
3:AF:2:PHE:HA	3:o:98:GLU:HA	2.01	0.42
2:AK:311:ILE:HB	2:AK:327:ALA:HB2	2.01	0.42
2:AL:463:ASP:OD1	2:Bv:317:LYS:NZ	2.46	0.42
2:AM:222:VAL:HG21	2:AM:238:ILE:HD11	2.00	0.42
2:AN:220:PRO:HD3	2:AN:334:PHE:CE2	2.54	0.42
2:AN:642:PHE:CZ	2:B2:561:LYS:HG2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AO:642:PHE:CZ	2:B5:564:ILE:HD11	2.54	0.42
6:AW:84:THR:OG1	6:AW:88:VAL:O	2.37	0.42
6:AZ:344:ARG:HG3	6:Ad:344:ARG:NH1	2.34	0.42
6:AZ:365:ALA:HB2	6:AZ:372:GLU:HA	2.00	0.42
6:Ac:190:LEU:HD23	6:Ac:223:GLU:HA	2.00	0.42
6:Ad:111:ILE:HD12	6:Ad:377:ILE:HD11	2.01	0.42
6:Ae:121:THR:HB	6:Ay:79:ILE:HG23	2.01	0.42
6:Ag:324:THR:OG1	6:Ag:327:SER:HB2	2.19	0.42
6:Ai:93:PRO:HA	6:Am:121:THR:O	2.20	0.42
6:Am:71:ASP:OD1	6:Am:72:HIS:N	2.52	0.42
6:Am:374:ASN:HD21	6:Am:439:LYS:C	2.26	0.42
6:Au:309:TRP:CD1	6:Au:479:ILE:HD13	2.55	0.42
6:Aw:245:ASN:C	6:Aw:247:TRP:N	2.77	0.42
6:Ay:345:TRP:CD1	6:Ay:346:ALA:N	2.88	0.42
2:B1:577:ASN:ND2	2:B1:579:PHE:H	2.17	0.42
2:B1:591:TYR:HD2	2:B1:592:LEU:HD12	1.83	0.42
2:B3:400:ARG:NH1	2:B3:402:ASP:OD1	2.52	0.42
2:B5:14:THR:HG21	2:B6:306:ASP:HB2	2.00	0.42
2:B6:35:TRP:HB2	2:B6:230:LEU:HD12	2.01	0.42
2:B6:642:PHE:CZ	2:B7:564:ILE:HD11	2.55	0.42
5:BF:38:ASP:N	5:BF:38:ASP:OD1	2.52	0.42
5:BF:267:LEU:HD12	5:BF:365:PHE:HD2	1.83	0.42
5:BF:375:VAL:HG12	5:BF:379:ARG:HG3	2.01	0.42
5:BG:397:THR:HG23	5:BG:400:GLU:HB2	2.02	0.42
5:BH:282:ARG:HA	5:BH:282:ARG:HD3	1.90	0.42
6:BI:314:ALA:HA	6:BI:513:PHE:HB2	2.01	0.42
6:BJ:444:MET:O	6:BJ:449:TYR:OH	2.26	0.42
6:BK:366:ARG:NH1	6:BK:367:GLN:HG3	2.35	0.42
6:BM:269:ALA:HA	6:BM:470:VAL:HA	2.01	0.42
6:BM:494:SER:C	6:BM:496:ILE:H	2.27	0.42
11:BS:11:LYS:NZ	11:BS:27:GLU:OE2	2.44	0.42
11:BT:30:VAL:HG11	11:BT:68:TRP:CD2	2.55	0.42
3:BY:23:VAL:HG22	3:BY:36:CYS:SG	2.60	0.42
3:BZ:143:ASP:OD2	3:BZ:145:ASP:HB2	2.20	0.42
3:Bk:19:ASN:OD1	3:Bk:19:ASN:N	2.36	0.42
3:Bn:137:VAL:HG23	3:Bn:155:VAL:HG22	2.02	0.42
2:Bp:188:ILE:H	2:Bp:188:ILE:HG12	1.59	0.42
2:Bq:269:PHE:CZ	2:Bq:292:SER:HB2	2.53	0.42
2:Bq:642:PHE:CZ	2:Br:561:LYS:HG2	2.54	0.42
2:Br:254:ILE:HG22	2:Br:257:GLY:H	1.84	0.42
2:Bs:66:MET:HG2	2:Bs:468:VAL:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bs:536:TYR:HD1	2:Bs:536:TYR:HA	1.72	0.42
2:Bt:154:ALA:HB1	2:Bt:160:TYR:HB2	2.02	0.42
2:Bt:254:ILE:HG13	2:Bt:337:ILE:HB	2.02	0.42
2:Bw:3:LEU:HD21	2:Bw:9:GLU:HB2	2.02	0.42
2:Bw:441:PHE:CZ	2:Bw:443:ILE:HD11	2.54	0.42
2:Bx:576:ASN:ND2	2:Bx:622:GLU:O	2.52	0.42
2:Bz:49:ASP:OD1	2:Bz:49:ASP:N	2.48	0.42
2:Bz:110:TYR:CG	2:Bz:177:GLY:HA3	2.55	0.42
4:h:66:LYS:HE3	4:h:66:LYS:HB3	1.93	0.42
1:k:59:TYR:HD2	1:k:139:TYR:HD2	1.68	0.42
8:q:212:THR:OG1	8:q:235:SER:OG	2.19	0.42
8:s:151:GLU:OE1	8:s:199:TYR:OH	2.35	0.42
9:x:163:TYR:HE1	9:x:165:GLN:HE21	1.67	0.42
2:2:118:VAL:HG22	2:2:169:ALA:HB2	2.02	0.42
2:2:241:LYS:HB2	2:2:273:PRO:HB2	2.02	0.42
2:3:9:GLU:HG2	2:3:11:LYS:HG3	2.00	0.42
2:3:454:TYR:HB3	2:3:467:TRP:CD1	2.55	0.42
2:4:356:MET:HG3	2:4:392:HIS:CD2	2.54	0.42
2:5:136:ALA:HB3	2:5:139:LYS:HE2	2.01	0.42
3:8:97:ASN:HD21	3:AI:4:ASP:CG	2.27	0.42
5:A0:96:VAL:HG22	5:A0:147:PHE:HD2	1.84	0.42
5:A0:292:MET:O	5:A0:294:ALA:N	2.48	0.42
5:A1:31:ILE:HG22	5:A1:198:ILE:HG22	2.02	0.42
6:A4:379:SER:OG	6:A4:432:ASP:OD1	2.32	0.42
7:A6:54:ASN:HA	7:Al:162:TRP:HE1	1.82	0.42
7:A6:71:THR:HG21	7:BL:216:SER:HB3	2.02	0.42
9:AC:172:ILE:HD13	9:AC:172:ILE:HA	1.79	0.42
2:AD:356:MET:SD	2:AD:392:HIS:ND1	2.92	0.42
2:AL:26:THR:HA	2:AL:77:ASP:O	2.20	0.42
2:AL:361:PHE:HD1	2:AL:361:PHE:HA	1.71	0.42
2:AN:32:LYS:HG2	2:AN:350:VAL:HG21	2.00	0.42
2:AO:37:PRO:HG3	2:AO:226:TYR:CZ	2.54	0.42
6:AV:230:THR:HB	6:BI:71:ASP:CG	2.44	0.42
6:AV:374:ASN:O	6:AV:422:ARG:HD3	2.19	0.42
7:AY:117:ILE:H	7:AY:117:ILE:HG13	1.47	0.42
7:AY:164:ASN:ND2	7:Aq:51:ASP:OD1	2.52	0.42
6:AZ:145:HIS:ND1	6:AZ:146:PRO:HD2	2.34	0.42
6:Ak:252:PHE:N	6:Ak:252:PHE:CD1	2.87	0.42
6:An:466:ASN:OD1	6:An:466:ASN:N	2.52	0.42
6:Ap:125:PHE:HZ	6:BM:91:ILE:HA	1.83	0.42
6:Ap:357:ILE:HG12	6:Ap:434:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ar:86:ARG:NH1	5:Ax:311:ARG:HD2	2.34	0.42
5:Av:236:VAL:HG21	5:Av:421:PRO:HG3	2.02	0.42
5:Av:400:GLU:OE1	5:Ax:398:ARG:NH2	2.52	0.42
5:Ax:249:ASN:OD1	5:Ax:250:ILE:N	2.52	0.42
6:Ay:331:VAL:HA	6:Ay:517:TYR:O	2.19	0.42
2:B2:234:ILE:HG12	2:B2:285:ARG:HD3	2.02	0.42
2:B4:57:PRO:HG3	2:B4:65:PHE:CG	2.53	0.42
2:B4:94:PRO:HD2	2:B4:223:VAL:HG12	2.02	0.42
2:B6:91:ASN:ND2	2:B6:225:LEU:O	2.52	0.42
2:B6:331:PRO:HB2	2:B6:334:PHE:HB2	2.02	0.42
7:BC:280:GLN:OE1	7:BC:280:GLN:N	2.52	0.42
5:BD:161:ILE:HB	5:BD:173:GLU:HB3	2.01	0.42
5:BG:290:GLY:C	5:BG:291:ASN:HD22	2.22	0.42
5:BH:94:GLU:CG	5:BH:379:ARG:HH21	2.33	0.42
6:BK:269:ALA:HA	6:BK:470:VAL:HA	2.00	0.42
6:BK:291:SER:HB2	6:BK:471:MET:SD	2.59	0.42
6:BM:269:ALA:HB2	6:BM:470:VAL:HG13	2.02	0.42
11:BQ:9:ASN:ND2	11:BQ:51:SER:OG	2.52	0.42
11:BW:41:ILE:HD13	11:BW:46:TYR:CE2	2.55	0.42
3:Ba:90:SER:HA	3:Ba:94:GLY:H	1.85	0.42
3:Bc:25:ILE:HD12	3:Bc:28:LEU:HD12	2.01	0.42
2:Bp:281:ILE:HG13	2:Bp:295:LEU:HD12	2.02	0.42
2:Bp:571:ARG:NH2	2:Bp:587:GLU:OE1	2.41	0.42
2:Bq:410:PRO:O	2:Bq:413:THR:HG22	2.19	0.42
2:Bq:609:ASP:OD1	2:Bq:611:THR:OG1	2.28	0.42
2:Br:23:SER:O	2:Br:76:ASN:HB2	2.20	0.42
2:Br:202:GLU:H	2:Br:202:GLU:HG3	1.60	0.42
2:Br:394:VAL:HG21	2:Br:443:ILE:HD12	2.02	0.42
2:Bt:57:PRO:HB3	2:Bt:65:PHE:HB3	2.02	0.42
2:Bu:278:GLN:HG2	2:Bu:296:SER:HB3	2.01	0.42
2:Bu:510:ARG:HB2	2:Bu:513:GLN:HE21	1.83	0.42
2:Bv:398:ASP:O	2:Bv:401:GLN:HG3	2.19	0.42
2:Bv:490:SER:OG	2:Bv:538:ASP:OD2	2.31	0.42
2:Bx:34:GLN:NE2	2:Bx:56:GLN:H	2.18	0.42
2:Bz:264:THR:HG21	2:Bz:284:ARG:HH22	1.84	0.42
3:o:70:THR:HG22	3:o:156:THR:HG22	2.00	0.42
8:r:41:ILE:HA	8:r:75:ILE:O	2.18	0.42
8:r:142:GLN:O	8:r:144:HIS:N	2.53	0.42
9:v:14:THR:HB	9:w:151:PRO:HD2	2.01	0.42
2:1:30:ALA:HB3	2:1:359:TRP:CE2	2.54	0.42
2:1:313:ASP:OD1	2:1:313:ASP:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:197:GLU:HB3	2:2:199:GLU:HG2	2.01	0.42
2:4:423:VAL:HG21	2:4:513:GLN:HB3	2.02	0.42
3:8:10:PHE:O	3:8:11:GLU:HB2	2.20	0.42
3:9:161:TYR:CZ	3:AA:97:ASN:HB2	2.55	0.42
5:A0:175:ARG:NH1	5:BG:30:SER:OG	2.52	0.42
5:A0:286:TYR:HB3	5:BH:338:ARG:HD2	2.01	0.42
5:A0:408:ARG:CZ	5:A0:450:ARG:HH21	2.33	0.42
5:A2:182:VAL:HG22	5:A2:208:TYR:CD1	2.52	0.42
6:A4:265:GLN:OE1	6:A5:236:GLN:HG3	2.19	0.42
6:A5:381:ASN:HB3	6:A5:521:ILE:HG21	2.00	0.42
7:A6:72:GLY:O	7:A6:171:LYS:HA	2.20	0.42
6:A8:117:MET:HE3	6:A8:451:ALA:HB3	2.01	0.42
6:A9:458:PRO:HB3	6:A9:473:PHE:CE2	2.54	0.42
2:AD:11:LYS:HE2	2:AD:11:LYS:HB2	1.89	0.42
2:AD:654:LEU:H	2:AD:654:LEU:HD12	1.84	0.42
3:AE:64:ARG:HG2	3:AF:93:ALA:HB1	2.02	0.42
3:AG:114:ARG:NH2	3:AG:116:TYR:OH	2.36	0.42
3:AH:124:THR:HB	3:AI:78:ALA:HA	2.02	0.42
2:AK:94:PRO:HD2	2:AK:223:VAL:HG12	2.01	0.42
2:AO:171:ILE:H	2:AO:171:ILE:HG12	1.65	0.42
2:AO:514:ARG:NH1	2:B5:366:GLU:OE2	2.52	0.42
2:AP:109:ASN:N	2:AP:138:GLY:HA3	2.34	0.42
6:AX:94:ALA:O	6:AX:95:VAL:HG13	2.20	0.42
6:AX:426:ASP:OD2	6:AX:433:TYR:OH	2.24	0.42
6:AZ:122:GLY:N	6:AZ:259:ILE:HG22	2.35	0.42
6:AZ:127:LEU:HD12	6:AZ:253:ARG:O	2.20	0.42
6:AZ:285:ASP:OD2	6:AZ:288:ALA:N	2.42	0.42
6:AZ:387:ALA:HB2	6:AZ:404:PHE:HB2	2.01	0.42
6:Ac:503:ILE:HG23	6:Ac:507:LEU:HD12	2.02	0.42
6:Ah:264:ARG:HD2	6:Ah:477:TYR:HE1	1.84	0.42
6:Ai:498:SER:O	6:Ai:505:ASN:ND2	2.52	0.42
6:Aj:142:GLU:HB2	6:Aj:490:GLN:HB2	2.02	0.42
6:Aj:384:ASN:HD21	6:An:362:VAL:HG21	1.85	0.42
6:Ak:66:ALA:N	6:BK:269:ALA:O	2.51	0.42
6:Ak:252:PHE:HD1	6:Ak:252:PHE:N	2.17	0.42
6:Am:120:PRO:HD3	6:Am:453:TYR:CE1	2.53	0.42
6:Am:345:TRP:HD1	6:Am:348:GLU:HG3	1.85	0.42
6:Ao:107:ILE:HD12	6:Ao:307:VAL:HG21	2.02	0.42
7:As:298:TYR:HD1	7:As:298:TYR:HA	1.74	0.42
6:Au:247:TRP:HB2	6:BJ:267:LYS:HE2	2.01	0.42
5:Av:29:VAL:HG22	5:BB:8:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Av:254:LEU:O	5:Av:258:VAL:HG23	2.20	0.42
5:Av:448:PHE:O	5:Av:450:ARG:NH1	2.52	0.42
6:Aw:131:TYR:HA	6:Aw:250:MET:HA	2.01	0.42
5:Ax:282:ARG:HD3	5:Ax:282:ARG:HA	1.87	0.42
5:Ax:451:ASP:OD2	5:BA:405:LYS:NZ	2.52	0.42
6:Ay:128:ARG:NH1	6:Ay:490:GLN:O	2.53	0.42
6:Az:268:ALA:HB2	6:Az:294:LEU:HD11	2.01	0.42
2:B1:556:LEU:HD11	2:B1:601:ILE:HG12	2.02	0.42
2:B3:365:ARG:HA	2:B3:400:ARG:NH2	2.34	0.42
2:B3:379:ALA:HB2	2:B3:454:TYR:CE2	2.53	0.42
2:B3:641:ASN:HB2	2:B4:626:THR:HG22	2.01	0.42
2:B4:222:VAL:HA	2:B4:325:ALA:HB2	2.00	0.42
2:B4:365:ARG:HG3	2:B4:402:ASP:CG	2.44	0.42
2:B4:653:GLU:O	2:B7:17:SER:OG	2.26	0.42
5:BA:275:ARG:HD3	5:BA:355:ASN:CG	2.44	0.42
5:BB:398:ARG:HB2	5:BB:398:ARG:HH11	1.85	0.42
5:BD:78:THR:HG21	7:BL:134:PHE:CZ	2.53	0.42
5:BF:43:PHE:O	5:BF:187:GLU:HA	2.19	0.42
5:BF:86:TYR:O	5:BF:87:GLU:HB2	2.19	0.42
6:BJ:146:PRO:HB3	6:BJ:369:GLY:HA3	2.02	0.42
6:BK:131:TYR:CE1	6:BK:141:LYS:HB2	2.54	0.42
3:Bb:55:ASN:HD21	3:Bf:20:LEU:HD11	1.84	0.42
3:Bg:82:ARG:HG3	3:Bg:153:PHE:CE1	2.54	0.42
3:Bn:106:GLU:O	3:Bn:109:LYS:NZ	2.41	0.42
2:Bp:609:ASP:N	2:Bp:609:ASP:OD1	2.53	0.42
2:Br:131:ILE:HG12	2:Br:143:ILE:HG22	2.01	0.42
2:Bs:159:GLU:OE1	2:Bs:162:THR:OG1	2.36	0.42
2:Bt:438:ASP:OD1	2:Bt:438:ASP:N	2.51	0.42
4:M:5:LEU:HB3	4:M:61:ASN:HD21	1.85	0.42
1:m:101:SER:HB2	8:u:180:ASN:OD1	2.20	0.42
8:r:217:HIS:ND1	8:r:229:VAL:O	2.53	0.42
9:w:78:ASP:OD2	9:w:82:LYS:NZ	2.42	0.42
1:0:146:LEU:HB2	8:q:66:ALA:HB1	2.00	0.42
2:1:454:TYR:HD2	2:1:467:TRP:CD1	2.34	0.42
2:1:459:ASP:OD2	2:1:462:ASN:N	2.45	0.42
2:3:654:LEU:HD13	2:AK:605:ARG:NH1	2.35	0.42
2:4:510:ARG:HB3	2:4:513:GLN:HG2	2.01	0.42
2:5:346:SER:O	2:5:350:VAL:HG23	2.19	0.42
2:5:633:ARG:H	2:5:633:ARG:HG2	1.67	0.42
5:A0:78:THR:HA	5:A0:81:ASN:HD21	1.85	0.42
5:A1:469:MET:HE3	5:A1:469:MET:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:58:PHE:CZ	5:A2:62:PHE:HE2	2.37	0.42
5:A2:310:ASN:HA	5:A2:326:HIS:H	1.85	0.42
5:A3:292:MET:O	5:A3:294:ALA:N	2.45	0.42
7:A6:34:ILE:O	7:A6:38:ILE:HG12	2.19	0.42
6:A9:274:LEU:HD13	6:Aj:69:GLY:HA2	2.01	0.42
2:AD:109:ASN:N	2:AD:138:GLY:HA3	2.34	0.42
3:AG:82:ARG:NH1	3:AG:138:GLY:HA2	2.35	0.42
3:AJ:39:THR:HG22	3:AJ:71:VAL:HG22	2.01	0.42
2:AK:135:ASP:OD1	2:AK:136:ALA:N	2.51	0.42
2:AL:32:LYS:NZ	2:AL:60:GLU:OE2	2.52	0.42
2:AN:454:TYR:HB3	2:AN:467:TRP:HD1	1.84	0.42
2:AO:444:SER:OG	2:AO:543:SER:OG	2.25	0.42
10:AU:299:HIS:ND1	10:AU:300:ARG:HG3	2.35	0.42
6:AX:154:PHE:CE2	6:AX:248:ASN:HB3	2.55	0.42
6:AX:323:LEU:HD13	6:AX:329:ALA:HA	2.01	0.42
7:AY:115:ALA:HB1	6:Ao:275:ALA:HB3	2.00	0.42
7:AY:155:LEU:HD21	7:Aq:133:ALA:HB1	2.01	0.42
6:AZ:490:GLN:OE1	6:AZ:490:GLN:N	2.51	0.42
7:Ab:107:PHE:O	7:Ab:111:LEU:HG	2.19	0.42
6:Ad:176:ASP:OD1	6:Ad:177:ILE:N	2.46	0.42
6:Af:454:VAL:HB	6:Af:476:ARG:H	1.83	0.42
6:Ag:84:THR:OG1	6:Ag:88:VAL:O	2.30	0.42
6:Ag:128:ARG:NH1	6:Ag:491:ALA:H	2.17	0.42
7:Al:300:LEU:HD23	5:BG:292:MET:HG2	2.02	0.42
6:Am:199:ASP:HB2	6:Am:211:GLU:HG2	2.00	0.42
6:Ao:98:MET:HB2	6:Ao:282:HIS:CE1	2.55	0.42
6:Ao:383:VAL:HG12	6:Ao:406:THR:HG22	2.00	0.42
5:Av:183:GLN:HB3	5:Av:207:ILE:HD11	2.02	0.42
5:Av:458:LYS:HB3	5:Av:458:LYS:HE2	1.83	0.42
5:Ax:219:GLY:O	5:Ax:221:MET:N	2.53	0.42
6:Ay:381:ASN:HB3	6:Ay:521:ILE:HD13	2.01	0.42
2:B1:253:PRO:HD2	2:B1:336:GLY:HA2	2.01	0.42
2:B2:130:LYS:HE2	2:B2:130:LYS:HB2	1.88	0.42
2:B2:131:ILE:HA	2:B2:143:ILE:HA	2.01	0.42
2:B4:30:ALA:HB3	2:B4:359:TRP:NE1	2.34	0.42
2:B5:346:SER:O	2:B5:350:VAL:HG23	2.19	0.42
2:B6:77:ASP:OD2	2:B6:79:ARG:NH1	2.52	0.42
5:BA:310:ASN:OD1	5:BA:323:ASN:ND2	2.37	0.42
5:BG:237:TYR:CZ	5:BG:239:HIS:HB3	2.54	0.42
5:BH:267:LEU:HD22	5:BH:267:LEU:HA	1.92	0.42
6:BI:154:PHE:CE2	6:BI:248:ASN:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BK:145:HIS:CE1	6:BK:147:MET:HB2	2.55	0.42
6:BM:278:LEU:HD23	6:BM:278:LEU:HA	1.93	0.42
6:BM:318:LYS:O	6:BM:329:ALA:HA	2.20	0.42
3:BX:137:VAL:O	3:Bm:44:GLY:N	2.43	0.42
3:Bb:30:GLN:HB2	2:Bu:579:PHE:CE2	2.55	0.42
3:Bd:39:THR:HG22	3:Bd:71:VAL:HG22	2.00	0.42
2:Bp:171:ILE:H	2:Bp:171:ILE:HG12	1.71	0.42
2:Bs:379:ALA:HB2	2:Bs:454:TYR:CE2	2.55	0.42
2:Bs:382:SER:OG	2:Bs:385:THR:HG22	2.20	0.42
2:Bs:406:LEU:HD13	2:Bs:475:ALA:HB2	2.01	0.42
2:Bu:45:THR:HA	2:Bu:76:ASN:O	2.19	0.42
2:Bu:651:PHE:HD1	2:Bu:651:PHE:HA	1.69	0.42
2:Bv:538:ASP:OD1	2:Bv:538:ASP:N	2.53	0.42
2:Bx:74:TYR:OH	2:Bx:500:LEU:N	2.52	0.42
2:Bx:95:ILE:HD12	2:Bx:210:PHE:CE1	2.55	0.42
2:By:2:THR:OG1	2:By:3:LEU:N	2.51	0.42
2:By:116:ILE:HD13	2:By:171:ILE:HG23	2.02	0.42
2:Bz:308:ASN:ND2	2:Bz:313:ASP:OD2	2.52	0.42
2:Bz:454:TYR:HB3	2:Bz:467:TRP:CD1	2.54	0.42
4:J:26:LYS:HA	4:L:34:ALA:HB3	2.01	0.42
1:n:239:ASN:OD1	1:n:239:ASN:N	2.52	0.42
8:r:72:LEU:HA	8:r:72:LEU:HD23	1.65	0.42
8:t:111:PRO:HG2	8:t:197:TRP:CE3	2.55	0.42
9:z:118:ASP:HB2	9:z:125:VAL:HG13	2.01	0.42
1:0:5:ASP:OD2	1:0:8:LEU:N	2.52	0.42
1:0:87:ALA:HB2	1:k:26:ILE:HG23	2.01	0.42
2:1:561:LYS:HG2	8:q:216:PHE:CE1	2.55	0.42
2:2:505:LEU:HD12	2:2:505:LEU:HA	1.88	0.42
2:4:457:GLN:HG2	2:4:458:TYR:H	1.85	0.42
2:4:644:ALA:HA	2:AL:557:PHE:HZ	1.84	0.42
2:5:383:LEU:HD23	2:5:410:PRO:HG2	2.02	0.42
2:5:594:GLY:HA2	3:AA:8:ARG:HD3	2.02	0.42
3:8:140:LEU:HD11	3:8:151:GLN:HB2	2.01	0.42
5:A0:382:GLN:NE2	5:BG:367:GLN:OE1	2.53	0.42
5:A0:453:TYR:HD2	5:BG:458:LYS:HZ1	1.66	0.42
5:A2:155:ARG:HH12	5:A2:250:ILE:HB	1.85	0.42
5:A2:155:ARG:HD2	5:A2:157:PHE:HE1	1.85	0.42
6:A5:147:MET:SD	6:A5:367:GLN:HG2	2.60	0.42
7:A6:129:TYR:CD1	7:Al:105:PRO:HG2	2.55	0.42
6:A7:264:ARG:NH1	6:A7:305:GLU:OE1	2.52	0.42
6:A8:262:LYS:HE3	6:A8:500:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A8:504:LEU:O	6:A8:509:LYS:NZ	2.48	0.42
3:AA:21:PHE:CE1	3:o:142:LEU:HB3	2.55	0.42
3:AA:48:LYS:HE2	3:AA:48:LYS:HB3	1.90	0.42
9:AC:138:LEU:HD12	9:AC:138:LEU:HA	1.84	0.42
9:AC:145:TYR:OH	9:z:17:PHE:O	2.32	0.42
9:AC:167:GLU:OE2	2:AD:586:THR:HB	2.19	0.42
2:AL:455:LYS:HB2	2:AL:470:LEU:HD13	2.01	0.42
2:AM:69:MET:O	2:AM:73:GLN:HG2	2.20	0.42
2:AM:456:TYR:O	2:AM:503:ILE:HG12	2.19	0.42
2:AM:527:GLY:HA2	2:AM:533:TYR:HD1	1.84	0.42
2:AO:389:VAL:O	2:AO:393:VAL:HG23	2.20	0.42
2:AP:373:PHE:HB2	2:AP:405:VAL:HG22	2.01	0.42
2:AP:400:ARG:HB2	2:AP:403:CYS:SG	2.60	0.42
2:AP:540:THR:OG1	2:AP:550:ARG:N	2.53	0.42
10:AR:317:LYS:HG3	10:AR:321:GLU:CD	2.44	0.42
7:Ab:268:GLY:HA3	7:Ar:275:VAL:HA	2.00	0.42
6:Ae:354:LEU:HD22	6:Ay:400:LEU:HD21	2.01	0.42
6:Ap:350:PHE:HB2	6:Ap:389:VAL:HG11	2.02	0.42
7:As:309:GLY:O	5:BB:309:LYS:HE3	2.20	0.42
7:At:22:ALA:HB1	7:At:23:PRO:HD2	2.01	0.42
7:At:298:TYR:HD1	7:At:298:TYR:HA	1.74	0.42
5:Av:283:ARG:O	5:BB:333:ASP:HB3	2.20	0.42
6:Aw:452:PRO:HA	6:Aw:477:TYR:HA	2.01	0.42
6:Ay:151:ASP:HB3	6:Ay:154:PHE:HB2	2.02	0.42
6:Az:380:ARG:HD3	6:Az:380:ARG:H	1.84	0.42
2:B1:116:ILE:HD11	2:B1:131:ILE:HG13	2.02	0.42
2:B1:406:LEU:HD13	2:B1:475:ALA:HB2	2.02	0.42
2:B1:536:TYR:HD1	2:B1:536:TYR:HA	1.74	0.42
2:B3:261:ARG:HG2	2:B3:262:ALA:H	1.84	0.42
2:B4:653:GLU:HB2	2:B7:16:GLN:HA	2.01	0.42
2:B5:365:ARG:HA	2:B5:400:ARG:NH2	2.34	0.42
2:B5:510:ARG:H	2:B5:513:GLN:NE2	2.14	0.42
2:B6:69:MET:O	2:B6:73:GLN:HG2	2.19	0.42
5:BA:243:VAL:HB	5:BA:247:GLY:HA2	2.02	0.42
5:BB:398:ARG:HA	5:BB:398:ARG:HD3	1.78	0.42
5:BD:314:TYR:CD1	5:BD:316:ALA:HB2	2.55	0.42
5:BF:285:TRP:CZ3	5:BF:347:VAL:HB	2.55	0.42
5:BF:295:ARG:HA	5:BF:295:ARG:HD3	1.88	0.42
5:BG:354:ASP:OD1	5:BG:354:ASP:N	2.52	0.42
5:BH:496:GLU:H	5:BH:496:GLU:CD	2.28	0.42
7:BL:90:THR:O	7:BL:96:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BP:2:ALA:N	11:BP:61:GLU:OE2	2.52	0.42
11:BS:22:LYS:NZ	11:BS:80:GLY:O	2.53	0.42
3:BY:40:ALA:H	3:BY:69:TRP:HE1	1.68	0.42
3:Bc:23:VAL:HG11	3:Bc:39:THR:HG21	2.01	0.42
3:Bg:136:ASN:O	3:Bg:136:ASN:ND2	2.53	0.42
3:Bk:41:LEU:HD23	3:Bn:140:LEU:HB3	2.02	0.42
3:Bm:82:ARG:NH1	3:Bm:138:GLY:HA2	2.31	0.42
3:Bm:83:GLN:HA	3:Bm:86:VAL:HG22	2.02	0.42
2:Bq:116:ILE:HG12	2:Bq:171:ILE:HG12	2.00	0.42
2:Bq:383:LEU:HD11	2:Bq:436:TYR:HE1	1.84	0.42
2:Bq:406:LEU:HD13	2:Bq:475:ALA:HB2	2.02	0.42
2:Br:299:ARG:H	2:Br:299:ARG:HD2	1.84	0.42
2:Br:409:PRO:HB3	2:Br:426:LEU:HD21	2.01	0.42
2:Bs:538:ASP:OD1	2:Bs:538:ASP:N	2.51	0.42
2:Bs:614:THR:C	2:Bs:616:SER:H	2.27	0.42
2:Bw:39:PHE:HB3	2:Bw:361:PHE:CE1	2.55	0.42
2:Bw:528:THR:HA	2:Bx:367:SER:HA	2.01	0.42
2:Bx:89:ALA:HA	2:Bx:345:SER:HA	2.01	0.42
2:Bx:120:TYR:CD2	2:Bx:121:VAL:HG22	2.54	0.42
2:Bz:152:ALA:O	2:Bz:156:GLU:HG2	2.19	0.42
2:Bz:510:ARG:HG2	2:Bz:511:GLN:H	1.85	0.42
4:D:23:SER:HB3	4:D:46:ARG:HE	1.85	0.42
3:o:48:LYS:HG3	3:o:59:ASN:HB3	2.01	0.42
1:p:166:ILE:HD13	1:p:166:ILE:HA	1.91	0.42
8:r:6:TYR:CD1	8:s:132:GLN:HG2	2.55	0.42
8:u:252:LYS:NZ	8:u:270:PRO:HG2	2.35	0.42
2:1:480:ARG:C	2:1:482:ASP:H	2.27	0.42
2:2:30:ALA:HB3	2:2:359:TRP:CE2	2.55	0.42
2:2:121:VAL:HG22	2:2:166:ASN:HB3	2.02	0.42
3:9:125:LYS:HG2	3:AA:79:HIS:CG	2.54	0.42
5:A0:412:HIS:HB3	5:BH:141:ARG:HG3	2.02	0.42
5:A1:282:ARG:O	5:A1:350:LEU:HB3	2.20	0.42
5:A1:373:LEU:HD23	5:A1:373:LEU:HA	1.89	0.42
5:A3:134:LEU:O	5:A3:137:LEU:O	2.37	0.42
5:A3:220:ARG:HG3	5:A3:221:MET:H	1.84	0.42
5:A3:350:LEU:HD12	5:A3:351:PRO:HD2	2.01	0.42
6:A5:257:GLN:NE2	6:A5:481:ILE:O	2.52	0.42
7:A6:33:GLN:HE22	7:A6:262:ILE:HD11	1.85	0.42
6:A8:91:ILE:HD13	6:A8:281:VAL:HG13	2.02	0.42
6:A9:147:MET:O	6:A9:185:THR:HB	2.20	0.42
3:AA:43:ALA:HB2	3:o:139:GLU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AC:167:GLU:OE1	2:AD:582:SER:OG	2.37	0.42
3:AI:25:ILE:HD12	3:AI:28:LEU:HD12	2.02	0.42
2:AL:10:LEU:HD13	2:Bs:561:LYS:HD2	2.01	0.42
2:AL:467:TRP:HH2	2:Bv:199:GLU:HB2	1.85	0.42
2:AL:510:ARG:HG2	2:AL:511:GLN:H	1.84	0.42
2:AM:383:LEU:HD22	2:AM:439:ASN:HB2	2.01	0.42
2:AP:285:ARG:NH1	2:AP:286:ASN:OD1	2.53	0.42
10:AS:328:ASP:OD1	10:AS:329:ASP:N	2.53	0.42
6:AV:91:ILE:HA	6:BJ:125:PHE:HZ	1.84	0.42
6:AV:129:ALA:HB3	6:AV:143:ALA:HB3	2.02	0.42
6:AV:290:LEU:HD23	6:AV:290:LEU:HA	1.85	0.42
7:AY:301:ASP:N	7:AY:301:ASP:OD1	2.50	0.42
6:AZ:93:PRO:O	6:Ad:123:GLN:NE2	2.53	0.42
6:AZ:104:PRO:HD2	6:AZ:300:LEU:HD21	2.02	0.42
6:AZ:494:SER:HA	11:BN:37:ASP:CG	2.45	0.42
7:Aa:69:TYR:HE1	7:Aa:177:GLN:HA	1.85	0.42
7:Ab:306:ILE:HD11	5:Av:345:THR:HG21	2.01	0.42
6:Ad:304:ARG:HD3	6:Ad:428:TYR:HD2	1.84	0.42
6:Af:317:GLY:O	6:Af:330:GLY:HA2	2.20	0.42
6:Ah:261:ALA:HA	6:Ah:478:GLY:HA3	2.02	0.42
6:Ak:355:PHE:CE2	6:Ak:359:LYS:HD2	2.55	0.42
6:An:494:SER:HA	11:BT:37:ASP:CG	2.45	0.42
7:Aq:7:GLN:HB3	7:Aq:239:GLN:H	1.85	0.42
7:As:138:LEU:HD12	5:BB:273:ILE:HD11	2.02	0.42
5:Av:36:LEU:HB3	5:Av:38:ASP:OD2	2.20	0.42
5:Av:398:ARG:HG2	5:BB:379:ARG:HD2	2.02	0.42
5:Av:485:THR:O	5:Av:489:ASP:HB3	2.20	0.42
6:Ay:383:VAL:HG12	6:Ay:406:THR:HG22	2.01	0.42
6:Az:127:LEU:HD11	6:Az:252:PHE:HB2	2.01	0.42
6:Az:437:GLY:HA3	6:Az:513:PHE:HD1	1.85	0.42
2:B1:169:ALA:HB2	2:B1:184:LEU:HD11	2.02	0.42
2:B1:563:ASN:OD1	2:B1:591:TYR:OH	2.38	0.42
2:B2:304:ILE:HG21	2:By:545:PRO:O	2.19	0.42
2:B2:430:ARG:HG3	2:B2:522:ILE:HD11	2.01	0.42
2:B2:481:THR:HB	2:B2:555:ARG:HH12	1.84	0.42
2:B4:241:LYS:NZ	2:B4:274:GLN:O	2.50	0.42
2:B4:455:LYS:HE3	2:B4:455:LYS:HB2	1.89	0.42
2:B5:414:VAL:HG23	2:B5:422:ALA:HB1	2.02	0.42
5:BA:154:SER:OG	5:BA:155:ARG:NH1	2.53	0.42
5:BB:285:TRP:HZ3	5:BB:336:LEU:HD21	1.84	0.42
5:BD:86:TYR:C	5:BD:88:VAL:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BH:434:GLU:CD	5:BH:434:GLU:H	2.28	0.42
6:BI:471:MET:HE3	6:BI:471:MET:HB3	1.93	0.42
6:BI:494:SER:C	6:BI:496:ILE:H	2.28	0.42
6:BJ:128:ARG:NE	6:BJ:492:PRO:HD3	2.35	0.42
6:BJ:314:ALA:HA	6:BJ:513:PHE:HB2	2.00	0.42
6:BJ:433:TYR:HA	6:BJ:517:TYR:HA	2.01	0.42
7:BL:13:LYS:HG3	7:BL:34:ILE:HG21	2.02	0.42
11:BR:10:ILE:HD11	11:BR:35:TYR:CE1	2.54	0.42
3:BX:89:GLN:NE2	3:Bm:46:VAL:HG23	2.34	0.42
3:BX:137:VAL:HB	3:BX:155:VAL:HG13	2.02	0.42
3:Bd:41:LEU:HD13	3:Bg:140:LEU:HD23	2.01	0.42
3:Bf:120:ALA:HB2	3:Bh:99:ILE:O	2.20	0.42
3:Bf:133:TRP:CZ3	3:Bf:135:THR:HG22	2.54	0.42
2:Bp:315:PHE:CE2	2:Bp:325:ALA:HB3	2.55	0.42
2:Bp:557:PHE:CZ	2:Bp:629:ILE:HD11	2.55	0.42
2:Br:29:LEU:O	2:Br:80:VAL:HA	2.19	0.42
2:Br:130:LYS:HE2	2:Br:130:LYS:HB2	1.89	0.42
2:Bt:456:TYR:HB3	2:Bt:503:ILE:HG23	2.02	0.42
2:Bt:655:THR:HB	2:Bw:19:VAL:HG21	2.02	0.42
2:Bu:253:PRO:HB3	2:Bu:260:THR:HG22	2.02	0.42
2:Bv:222:VAL:HG21	2:Bv:238:ILE:HD11	2.01	0.42
2:Bz:163:LEU:HD12	2:Bz:186:LYS:HA	2.02	0.42
2:Bz:209:ASP:OD1	2:Bz:209:ASP:N	2.52	0.42
4:C:62:ILE:HD12	4:H:58:LEU:HD22	2.01	0.42
4:U:29:GLU:HG2	4:U:30:GLU:H	1.83	0.42
1:l:168:LYS:HE3	1:l:168:LYS:HB2	1.77	0.42
1:m:41:ILE:HD13	1:n:5:ASP:HB2	2.01	0.42
8:q:61:SER:OG	8:q:62:GLN:N	2.41	0.42
8:s:8:SER:O	8:s:12:ARG:HG3	2.20	0.42
8:t:212:THR:OG1	8:t:235:SER:OG	2.14	0.42
8:u:60:ASN:OD1	8:u:60:ASN:N	2.51	0.42
1:0:26:ILE:HG22	1:0:27:LEU:HB2	2.02	0.42
2:1:269:PHE:CE2	2:1:280:ALA:HB1	2.55	0.42
2:2:584:PHE:CE2	2:2:627:PHE:HZ	2.38	0.42
2:3:90:LYS:H	2:3:344:LEU:HB3	1.85	0.42
2:3:216:LYS:HB3	2:3:216:LYS:HE2	1.85	0.42
3:7:16:ALA:O	3:8:151:GLN:HG2	2.19	0.42
3:9:56:ARG:NH2	3:o:94:GLY:O	2.52	0.42
3:9:59:ASN:OD1	3:9:59:ASN:N	2.53	0.42
5:A1:160:LYS:NZ	5:A1:424:THR:OG1	2.38	0.42
5:A2:380:ILE:HD12	5:A2:381:PRO:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A2:440:GLU:O	5:A2:444:ILE:HG22	2.19	0.42
5:A3:214:SER:HB3	5:A3:215:TYR:CE2	2.55	0.42
5:A3:333:ASP:OD1	5:A3:333:ASP:N	2.51	0.42
6:A4:253:ARG:O	6:A4:254:ILE:HB	2.19	0.42
6:A8:378:ALA:HB1	6:A8:382:VAL:HB	2.01	0.42
8:AB:111:PRO:HB2	8:AB:197:TRP:HB3	2.01	0.42
2:AD:538:ASP:OD1	2:AD:538:ASP:N	2.52	0.42
3:AG:97:ASN:O	3:BX:3:VAL:N	2.49	0.42
3:AI:37:LYS:HB2	3:AI:37:LYS:HZ2	1.85	0.42
2:AK:455:LYS:HG3	2:AK:502:VAL:HG13	2.02	0.42
2:AK:617:VAL:CG2	2:AK:622:GLU:HB2	2.49	0.42
2:AN:284:ARG:HG2	2:AN:289:ILE:HD13	2.02	0.42
2:AN:365:ARG:HA	2:AN:400:ARG:NH2	2.35	0.42
6:AV:363:GLU:HA	6:AV:366:ARG:HG2	2.02	0.42
6:AW:154:PHE:CZ	6:AW:248:ASN:HB3	2.55	0.42
6:AX:258:VAL:O	6:AX:499:GLY:N	2.40	0.42
7:AY:271:LEU:HB3	7:AY:272:PRO:HD2	2.02	0.42
7:Aa:221:ASN:HB3	7:Aa:224:HIS:CE1	2.54	0.42
7:Ab:52:GLY:O	7:Ab:189:LYS:HA	2.20	0.42
7:Ab:232:GLY:HA3	4:i:38:TYR:HE2	1.84	0.42
6:Ad:313:SER:HA	6:Ad:506:SER:O	2.19	0.42
6:Af:278:LEU:HD11	6:Aj:252:PHE:HE2	1.85	0.42
6:Af:345:TRP:CE2	6:Aj:348:GLU:HB2	2.55	0.42
6:Ag:350:PHE:HD2	6:Ag:389:VAL:HG13	1.84	0.42
6:Ah:264:ARG:HD2	6:Ah:477:TYR:CE1	2.55	0.42
6:Ah:344:ARG:HE	6:BI:344:ARG:NH1	2.17	0.42
6:Ah:500:MET:O	6:Ah:505:ASN:ND2	2.48	0.42
6:Ai:153:MET:HG3	6:Ai:225:ALA:HA	2.01	0.42
6:Ao:123:GLN:NE2	6:BK:91:ILE:HG23	2.35	0.42
7:Ar:29:LEU:HD11	7:Ar:258:LEU:HD12	2.02	0.42
6:Au:290:LEU:HD21	6:Ay:251:GLY:HA2	2.00	0.42
6:Au:290:LEU:HD23	6:Au:290:LEU:HA	1.83	0.42
6:Au:485:ALA:O	6:Au:486:GLU:HB3	2.20	0.42
2:B1:626:THR:HG22	2:Bz:641:ASN:HB2	2.00	0.42
2:B2:400:ARG:NH1	2:B2:402:ASP:OD1	2.53	0.42
2:B2:653:GLU:HB2	2:B5:16:GLN:HA	2.02	0.42
2:B3:29:LEU:O	2:B3:80:VAL:HA	2.20	0.42
2:B6:557:PHE:HB3	2:B6:561:LYS:HZ1	1.85	0.42
2:B7:505:LEU:HB2	2:B7:533:TYR:CE2	2.54	0.42
5:BA:333:ASP:CG	5:BH:283:ARG:HB3	2.45	0.42
7:BC:95:ILE:HG13	7:BC:148:MET:HE1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BC:207:VAL:HG23	4:g:29:GLU:O	2.20	0.42
5:BD:82:LEU:HD22	5:BD:258:VAL:HG22	2.02	0.42
5:BG:242:LEU:HB3	5:BG:251:ILE:HG13	2.02	0.42
5:BH:329:SER:N	5:BH:332:GLU:OE1	2.52	0.42
6:BI:149:GLY:H	6:BI:185:THR:C	2.28	0.42
11:BN:38:VAL:HG21	11:BN:65:ARG:HH12	1.83	0.42
3:BX:99:ILE:HG12	3:Bj:56:ARG:HG3	2.02	0.42
3:Be:48:LYS:HB3	3:Be:48:LYS:HE3	1.82	0.42
3:Bf:41:LEU:HD22	3:Bi:140:LEU:HD23	2.02	0.42
2:Bp:11:LYS:HG2	2:Bp:13:THR:HG23	2.01	0.42
2:Bp:566:ARG:HA	2:Bp:569:LYS:HE2	2.01	0.42
2:Bq:121:VAL:HG13	2:Bq:166:ASN:HB3	2.02	0.42
2:Bq:412:GLU:HA	2:Bq:415:VAL:HG12	2.01	0.42
2:Bq:413:THR:C	2:Bq:417:ILE:HD11	2.45	0.42
2:Br:57:PRO:HB3	2:Br:65:PHE:HB3	2.02	0.42
2:Br:256:PRO:HG2	2:Br:339:THR:H	1.85	0.42
2:Br:414:VAL:HG23	2:Br:422:ALA:HB1	2.01	0.42
2:Bs:166:ASN:OD1	2:Bs:166:ASN:N	2.53	0.42
2:Bt:639:THR:HB	2:Bu:624:VAL:HG12	2.01	0.42
2:Bu:33:PHE:O	2:Bu:82:ARG:NE	2.53	0.42
2:Bu:82:ARG:NH1	2:Bu:227:PRO:O	2.51	0.42
2:Bu:237:GLU:OE1	2:Bu:284:ARG:NH1	2.53	0.42
2:Bv:239:VAL:HG22	2:Bv:280:ALA:HB3	2.01	0.42
2:Bw:94:PRO:HG3	2:Bw:338:LEU:HD13	2.01	0.42
2:By:130:LYS:HE2	2:By:130:LYS:HB2	1.73	0.42
2:Bz:481:THR:HG23	2:Bz:496:ARG:HD2	2.01	0.42
4:U:10:PHE:HB3	4:U:22:ILE:HG13	2.02	0.42
1:l:146:LEU:HB3	8:s:68:VAL:HG12	2.01	0.42
8:r:13:TYR:CG	8:r:116:MET:HE1	2.55	0.42
8:r:237:VAL:HG13	8:r:240:ARG:HA	2.00	0.42
8:s:164:LYS:HD3	9:w:13:ASN:OD1	2.19	0.42
9:w:117:LEU:HD13	9:w:121:LYS:HA	2.02	0.42
9:z:127:SER:OG	9:z:167:GLU:HB3	2.19	0.42
2:3:237:GLU:OE1	2:3:284:ARG:NH1	2.53	0.41
2:4:140:ILE:H	2:4:140:ILE:HG13	1.72	0.41
2:5:561:LYS:NZ	8:u:231:GLU:OE2	2.39	0.41
3:6:79:HIS:CG	3:o:125:LYS:HG2	2.55	0.41
3:6:82:ARG:O	3:6:86:VAL:HG13	2.19	0.41
5:A1:66:GLU:HB3	5:A1:67:PRO:HD3	2.00	0.41
5:A1:161:ILE:HD11	5:BB:30:SER:HB3	2.02	0.41
5:A3:278:ARG:HD2	5:BG:283:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A4:377:ILE:HG23	6:A4:435:THR:HB	2.01	0.41
6:A5:147:MET:O	6:A5:185:THR:N	2.52	0.41
6:A5:304:ARG:HD2	6:A5:304:ARG:HA	1.93	0.41
6:A8:390:ASP:HB2	6:A8:397:ALA:HB3	2.01	0.41
6:A8:482:ASN:HD22	6:A8:484:PHE:H	1.67	0.41
3:AA:10:PHE:O	3:AA:11:GLU:HB2	2.20	0.41
3:AA:140:LEU:HD11	3:AA:151:GLN:HB2	2.01	0.41
3:AF:58:ILE:HD13	3:AF:58:ILE:H	1.84	0.41
2:AK:406:LEU:HD13	2:AK:475:ALA:HB2	2.00	0.41
2:AM:310:TYR:CE2	2:AM:312:ASP:HB2	2.55	0.41
2:AN:2:THR:OG1	2:AN:3:LEU:N	2.53	0.41
2:AP:365:ARG:HH21	2:AP:401:GLN:HB2	1.85	0.41
10:AR:310:TRP:CD1	10:AR:311:VAL:HG23	2.55	0.41
6:AV:267:LYS:HE3	6:AV:470:VAL:HG11	2.01	0.41
6:AX:449:TYR:OH	6:AX:482:ASN:ND2	2.38	0.41
7:AY:45:TYR:OH	7:AY:51:ASP:O	2.23	0.41
7:Ab:162:TRP:CZ3	7:Ar:54:ASN:HA	2.55	0.41
6:Ae:166:LEU:HA	6:Ae:166:LEU:HD23	1.82	0.41
6:Ag:107:ILE:N	6:Ag:303:ASN:OD1	2.53	0.41
6:Ah:304:ARG:HD2	6:Ah:304:ARG:HA	1.95	0.41
6:Ah:345:TRP:NE1	6:Ah:346:ALA:O	2.53	0.41
6:Am:454:VAL:O	6:Am:475:THR:OG1	2.35	0.41
6:Ap:304:ARG:HD2	6:Ap:304:ARG:HA	1.94	0.41
7:Aq:102:ALA:HB1	6:BK:120:PRO:HG2	2.02	0.41
7:Ar:162:TRP:CD1	7:At:54:ASN:HA	2.54	0.41
7:Ar:207:VAL:HG23	4:h:29:GLU:O	2.20	0.41
7:At:249:ASP:O	7:At:252:THR:OG1	2.33	0.41
6:Au:337:PRO:HA	6:Au:340:ILE:HG12	2.02	0.41
5:Av:135:ASN:ND2	5:Ax:439:ASP:O	2.53	0.41
5:Av:190:THR:HB	5:Av:199:VAL:HG12	2.01	0.41
5:Av:288:ASP:HA	5:BB:338:ARG:O	2.20	0.41
5:Av:381:PRO:HB2	5:Ax:377:LEU:HD23	2.02	0.41
6:Aw:94:ALA:O	6:Aw:95:VAL:HG13	2.20	0.41
6:Aw:123:GLN:HB3	6:BM:93:PRO:HB2	2.02	0.41
2:B1:110:TYR:H	2:B1:138:GLY:CA	2.32	0.41
2:B1:561:LYS:HG2	2:Bz:642:PHE:CZ	2.54	0.41
2:B2:10:LEU:HD22	2:By:642:PHE:HE1	1.85	0.41
2:B2:69:MET:O	2:B2:73:GLN:HG2	2.20	0.41
2:B3:527:GLY:HA2	2:B3:533:TYR:CD2	2.55	0.41
2:B3:572:LEU:HD12	2:B3:572:LEU:HA	1.72	0.41
2:B4:548:PHE:HE1	2:B4:557:PHE:CG	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:315:PHE:CE1	2:B5:323:ILE:HG13	2.55	0.41
2:B6:536:TYR:HD1	2:B6:536:TYR:HA	1.70	0.41
5:BA:231:PRO:O	5:BA:233:ALA:N	2.53	0.41
7:BE:263:LEU:HD22	7:BE:277:ILE:HG12	2.02	0.41
5:BF:55:ASN:O	5:BF:59:GLN:HG2	2.20	0.41
5:BG:115:LYS:HD3	5:BG:445:LYS:HE3	2.02	0.41
6:BI:204:ASP:OD1	6:BI:205:ALA:N	2.53	0.41
6:BK:264:ARG:O	6:BK:474:LYS:HA	2.20	0.41
11:BU:65:ARG:HB3	11:BU:66:THR:H	1.70	0.41
3:Bd:82:ARG:HH22	3:Bd:138:GLY:HA2	1.85	0.41
3:Bg:51:VAL:HG23	3:Bg:58:ILE:HG12	2.02	0.41
3:Bh:48:LYS:HB3	3:Bh:48:LYS:HE3	1.82	0.41
3:Bj:128:GLU:HB2	3:Bj:163:GLU:HB2	2.00	0.41
2:Bp:91:ASN:OD1	2:Bp:91:ASN:N	2.53	0.41
2:Bp:372:LEU:HD21	2:Bp:478:CYS:HB2	2.02	0.41
2:Bp:412:GLU:CD	2:Bp:412:GLU:H	2.28	0.41
2:Bq:200:ASN:OD1	2:Bq:200:ASN:N	2.51	0.41
2:Br:33:PHE:HA	2:Br:61:THR:HG23	2.02	0.41
2:Br:379:ALA:HB2	2:Br:454:TYR:HE2	1.85	0.41
2:Bt:493:GLY:O	2:Bt:497:GLY:N	2.50	0.41
2:Bu:550:ARG:HD3	2:Bu:550:ARG:HA	1.94	0.41
2:Bw:455:LYS:HE2	2:Bw:502:VAL:HG22	2.01	0.41
2:Bx:116:ILE:HD11	2:Bx:131:ILE:HG13	2.02	0.41
2:Bx:131:ILE:HG12	2:Bx:143:ILE:HG22	2.01	0.41
2:Bx:315:PHE:CD1	2:Bx:324:PHE:HA	2.55	0.41
2:By:227:PRO:HB2	2:By:345:SER:HB3	2.01	0.41
2:Bz:202:GLU:H	2:Bz:202:GLU:HG3	1.59	0.41
2:Bz:269:PHE:CE1	2:Bz:280:ALA:HB1	2.54	0.41
2:Bz:446:THR:OG1	2:Bz:554:ARG:NH2	2.53	0.41
1:n:2:ALA:HB3	1:n:6:LYS:HB2	2.02	0.41
1:p:201:LEU:O	1:p:204:VAL:HG12	2.20	0.41
8:r:215:ASP:OD1	8:r:215:ASP:N	2.53	0.41
8:s:46:LYS:HD3	8:s:46:LYS:HA	1.84	0.41
8:s:76:ASN:ND2	8:s:121:SER:HB2	2.35	0.41
9:v:168:LYS:HD3	9:v:173:ILE:HD11	2.01	0.41
1:0:49:GLU:OE2	7:Ar:265:ARG:NH1	2.53	0.41
2:1:545:PRO:HG3	2:2:271:TYR:HB3	2.01	0.41
3:7:21:PHE:CD1	3:8:142:LEU:HB3	2.55	0.41
3:8:125:LYS:HD2	3:8:125:LYS:HA	1.80	0.41
5:A0:119:SER:HB2	5:A0:122:ILE:HD13	2.02	0.41
5:A0:324:GLN:HB3	7:BE:99:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A1:273:ILE:HD11	7:Aq:138:LEU:HB3	2.02	0.41
5:A1:495:ASP:OD2	5:BD:123:LYS:NZ	2.49	0.41
5:A2:429:LYS:HE3	5:A2:429:LYS:HB2	1.92	0.41
5:A3:54:TYR:CZ	6:AV:410:LYS:HD3	2.54	0.41
5:A3:376:PRO:HG3	5:A3:403:PHE:HB2	2.02	0.41
6:A4:319:SER:HA	6:A4:323:LEU:HB2	2.02	0.41
2:AD:465:ASN:OD1	2:AD:465:ASN:N	2.53	0.41
3:AI:103:LYS:O	3:AI:106:GLU:HG2	2.20	0.41
2:AK:30:ALA:HB3	2:AK:359:TRP:NE1	2.35	0.41
2:AL:366:GLU:OE1	2:AL:367:SER:N	2.52	0.41
2:AN:153:LYS:O	2:AN:157:VAL:HG22	2.21	0.41
2:AO:95:ILE:HG22	2:AO:188:ILE:HG21	2.02	0.41
2:AP:202:GLU:H	2:AP:202:GLU:HG3	1.62	0.41
10:AQ:328:ASP:O	10:AQ:338:ARG:NH1	2.53	0.41
6:AX:497:GLN:HE21	6:AX:497:GLN:HB3	1.65	0.41
7:Aa:59:VAL:HG12	7:Aa:183:ILE:HG13	2.00	0.41
7:Aa:80:ASN:OD1	7:Aa:80:ASN:N	2.53	0.41
6:Ad:453:TYR:CD2	6:Ad:454:VAL:HG23	2.55	0.41
6:Ae:278:LEU:HD23	6:Ae:278:LEU:HA	1.89	0.41
6:Ag:154:PHE:CE2	6:Ag:248:ASN:HB3	2.54	0.41
6:Ag:264:ARG:NH1	6:Ag:305:GLU:OE1	2.52	0.41
6:Aj:164:PRO:HG2	6:Aj:178:TYR:HD1	1.84	0.41
6:Ao:430:LYS:HD3	6:Ao:430:LYS:HA	1.81	0.41
6:Ap:123:GLN:HB3	6:BI:93:PRO:HB2	2.01	0.41
6:Ap:225:ALA:HB3	6:BI:305:GLU:HA	2.00	0.41
7:As:217:GLU:HG3	7:As:224:HIS:HD1	1.85	0.41
6:Az:398:GLN:HG2	6:Az:399:GLY:H	1.84	0.41
2:B1:351:THR:OG1	2:B1:352:ALA:N	2.54	0.41
2:B1:557:PHE:HZ	2:Bz:644:ALA:HA	1.85	0.41
2:B4:411:ARG:HB2	2:B4:454:TYR:HE2	1.85	0.41
2:B5:107:GLY:HA3	2:B5:110:TYR:CE2	2.55	0.41
2:B5:160:TYR:CE1	2:B5:187:ILE:HG21	2.54	0.41
2:B7:617:VAL:HG22	2:B7:622:GLU:HB2	2.02	0.41
5:BB:187:GLU:OE1	5:BB:205:TYR:OH	2.32	0.41
5:BG:99:ALA:HB2	5:BG:407:ILE:HD12	2.02	0.41
6:BI:191:GLN:HB2	6:BI:224:ILE:HG21	2.02	0.41
6:BK:85:SER:HB2	11:BU:35:TYR:CE2	2.55	0.41
6:BK:238:GLY:HA2	6:BK:242:SER:O	2.20	0.41
6:BM:157:GLN:NE2	6:BM:227:GLY:O	2.51	0.41
11:BN:38:VAL:HG11	11:BN:69:ILE:HG12	2.01	0.41
3:BZ:133:TRP:CH2	3:Bo:61:ALA:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bb:139:GLU:OE2	3:Bb:141:GLN:NE2	2.52	0.41
3:Be:119:ASP:OD1	3:Bg:101:GLY:N	2.53	0.41
3:Bi:75:ASN:HD21	3:Bi:79:HIS:CG	2.38	0.41
2:Bq:274:GLN:N	2:Bq:278:GLN:OE1	2.37	0.41
2:Bs:57:PRO:O	2:Bs:462:ASN:ND2	2.36	0.41
2:Bu:69:MET:O	2:Bu:73:GLN:HG2	2.20	0.41
2:Bu:654:LEU:HD23	2:Bu:654:LEU:HA	1.96	0.41
2:Bv:455:LYS:HG3	2:Bv:502:VAL:HG13	2.02	0.41
2:Bv:467:TRP:CZ3	2:Bw:199:GLU:HB2	2.56	0.41
2:Bv:505:LEU:HD21	2:Bv:525:VAL:HG12	2.03	0.41
2:Bw:614:THR:C	2:Bw:616:SER:H	2.29	0.41
2:Bx:92:SER:HB3	2:Bx:340:LEU:HB3	2.02	0.41
2:Bz:32:LYS:HD3	2:Bz:64:TYR:HE2	1.85	0.41
2:Bz:572:LEU:HD12	2:Bz:572:LEU:HA	1.85	0.41
4:S:9:PRO:HD3	4:S:57:VAL:HG21	2.02	0.41
1:k:152:VAL:HG13	1:k:169:ILE:HD13	2.02	0.41
1:l:90:LEU:HA	1:l:90:LEU:HD23	1.80	0.41
1:m:61:VAL:HG22	1:m:83:ALA:HB2	2.02	0.41
1:m:74:GLU:HB2	8:t:126:TYR:HD1	1.85	0.41
1:m:81:THR:HG23	1:m:82:LYS:HG3	2.01	0.41
3:o:52:GLY:HA3	3:o:57:LYS:HZ3	1.85	0.41
8:q:99:GLN:NE2	8:q:102:ALA:HA	2.35	0.41
8:r:81:ASP:OD1	8:r:82:PHE:N	2.53	0.41
8:t:76:ASN:HD22	8:t:121:SER:HB2	1.85	0.41
9:v:119:ASN:HB2	9:w:79:GLU:HG3	2.02	0.41
1:0:152:VAL:HG13	1:0:169:ILE:HD13	2.02	0.41
2:2:614:THR:C	2:2:616:SER:H	2.27	0.41
2:3:378:CYS:HB2	2:3:454:TYR:OH	2.20	0.41
2:5:51:VAL:HG22	2:5:65:PHE:HZ	1.84	0.41
2:5:116:ILE:HD11	2:5:131:ILE:HG12	2.01	0.41
2:5:157:VAL:HG23	2:5:159:GLU:H	1.85	0.41
5:A2:420:ASP:HB3	5:A2:421:PRO:HD3	2.02	0.41
5:A3:279:ALA:N	5:A3:280:PRO:HD2	2.35	0.41
6:A4:155:SER:OG	6:A9:301:GLU:OE1	2.26	0.41
6:A9:304:ARG:HD2	6:A9:304:ARG:HA	1.79	0.41
6:A9:502:SER:HB3	6:A9:505:ASN:ND2	2.35	0.41
3:AA:37:LYS:HB3	3:AA:74:MET:HE3	2.01	0.41
9:AC:113:THR:HG22	9:AC:129:ASN:HD22	1.84	0.41
2:AK:61:THR:HG22	2:AK:65:PHE:HB2	2.02	0.41
2:AL:430:ARG:NH2	2:AL:541:ALA:HB1	2.35	0.41
2:AM:23:SER:O	2:AM:76:ASN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:383:LEU:HD11	2:AM:436:TYR:CD1	2.45	0.41
2:AN:39:PHE:HB3	2:AN:361:PHE:CE1	2.55	0.41
2:AN:152:ALA:O	2:AN:156:GLU:HG2	2.19	0.41
2:AP:376:GLY:HA3	2:AP:471:ALA:HB3	2.03	0.41
6:AW:450:TYR:CE1	6:AW:477:TYR:HB2	2.54	0.41
6:AX:67:GLU:H	6:AX:67:GLU:HG3	1.58	0.41
7:AY:166:ALA:N	7:Aq:51:ASP:OD2	2.54	0.41
7:AY:191:TYR:HA	7:AY:239:GLN:NE2	2.36	0.41
7:Ab:92:ILE:HD12	7:Ab:93:GLY:H	1.85	0.41
7:Ab:138:LEU:HD23	7:Ab:138:LEU:HA	1.91	0.41
6:Ac:127:LEU:HD11	6:Ac:252:PHE:HB2	2.01	0.41
6:Ad:75:ASN:OD1	6:Ad:76:ALA:N	2.53	0.41
6:Ae:345:TRP:HD1	6:Ai:344:ARG:HH12	1.66	0.41
6:Af:117:MET:HB2	6:Af:453:TYR:CD1	2.54	0.41
6:Af:351:LYS:NZ	6:Af:395:TYR:O	2.53	0.41
6:Ak:105:ASN:ND2	6:Ak:409:THR:O	2.47	0.41
6:Ak:318:LYS:N	6:Ak:360:GLU:OE2	2.41	0.41
7:Aq:60:PHE:HZ	7:Aq:76:LEU:HD21	1.85	0.41
7:Ar:89:ARG:HB3	7:Ar:97:SER:HB3	2.01	0.41
7:Ar:147:TYR:HE2	7:Ar:151:MET:HE3	1.84	0.41
5:Av:69:MET:C	5:Av:71:THR:H	2.28	0.41
5:Av:86:TYR:O	5:Av:87:GLU:HB2	2.19	0.41
5:Ax:383:ASP:OD1	5:Ax:383:ASP:N	2.49	0.41
6:Ay:454:VAL:O	6:Ay:475:THR:OG1	2.31	0.41
6:Az:137:ALA:HB3	6:Az:140:ALA:HB2	2.02	0.41
2:B1:163:LEU:HB3	2:B1:164:GLY:H	1.74	0.41
2:B1:315:PHE:CD1	2:B1:324:PHE:HA	2.56	0.41
2:B2:94:PRO:HB3	2:B2:338:LEU:HB3	2.01	0.41
2:B2:159:GLU:HB3	2:B2:163:LEU:HD23	2.03	0.41
2:B2:650:ASP:C	2:B2:652:ASP:H	2.28	0.41
2:B4:116:ILE:HA	2:B4:171:ILE:HA	2.01	0.41
2:B6:489:MET:HE1	2:B7:575:LEU:HD13	2.02	0.41
5:BA:399:ASP:OD1	5:BA:399:ASP:N	2.52	0.41
5:BB:315:ASP:HB2	5:BB:322:LYS:HG3	2.02	0.41
5:BD:55:ASN:O	5:BD:59:GLN:HG2	2.20	0.41
5:BD:474:GLU:HA	5:BD:477:ILE:HG23	2.02	0.41
7:BE:6:PRO:HG3	7:BE:15:VAL:HG21	2.02	0.41
5:BH:454:PHE:O	5:BH:458:LYS:HG3	2.20	0.41
6:BJ:125:PHE:CD2	6:BJ:256:LYS:HB3	2.55	0.41
6:BJ:337:PRO:HA	6:BJ:340:ILE:HG12	2.02	0.41
6:BK:340:ILE:HD12	6:BK:343:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BX:75:ASN:OD1	3:BX:79:HIS:HA	2.21	0.41
3:Be:10:PHE:HD2	3:Be:13:GLY:HA2	1.84	0.41
3:Bh:21:PHE:HZ	3:Bh:38:ALA:HA	1.85	0.41
3:Bi:14:ASP:OD1	3:Bi:14:ASP:N	2.51	0.41
3:Bi:64:ARG:NH1	3:Bl:95:GLN:HG3	2.35	0.41
2:Bp:32:LYS:HE2	2:Bp:350:VAL:HB	2.02	0.41
2:Bq:115:LYS:HD2	2:Bq:115:LYS:HA	1.83	0.41
2:Bq:374:ILE:HG22	2:Bq:376:GLY:H	1.86	0.41
2:Br:69:MET:O	2:Br:73:GLN:HG2	2.21	0.41
2:Bt:36:GLY:O	2:Bt:82:ARG:NH1	2.46	0.41
2:Bu:593:GLN:OE1	2:Bu:604:TYR:OH	2.29	0.41
2:Bw:117:THR:HG23	2:Bw:127:THR:HG22	2.01	0.41
2:Bx:154:ALA:HA	2:Bx:157:VAL:HG22	2.02	0.41
2:Bx:273:PRO:HB3	2:Bx:278:GLN:HB2	2.02	0.41
2:Bx:609:ASP:OD1	2:Bx:611:THR:OG1	2.30	0.41
2:By:31:GLY:HA3	2:By:64:TYR:CE2	2.55	0.41
1:m:211:HIS:HA	8:t:71:ILE:HG21	2.02	0.41
8:t:248:ASP:OD1	8:t:248:ASP:N	2.53	0.41
9:x:11:GLN:HA	9:y:78:ASP:HA	2.01	0.41
2:2:574:GLU:OE2	9:v:2:SER:N	2.53	0.41
2:2:642:PHE:CZ	2:AP:564:ILE:HD11	2.55	0.41
2:3:643:VAL:N	2:AK:627:PHE:O	2.53	0.41
2:4:390:GLN:HB3	2:4:441:PHE:HE2	1.84	0.41
2:4:456:TYR:O	2:4:503:ILE:HG12	2.20	0.41
5:A0:239:HIS:HB2	5:A0:250:ILE:HD13	2.03	0.41
5:A1:162:ILE:HD13	5:A1:163:ASP:H	1.85	0.41
5:A3:82:LEU:HD22	5:A3:258:VAL:HG22	2.02	0.41
5:A3:411:GLN:O	5:A3:415:GLU:HG3	2.19	0.41
5:A3:454:PHE:CZ	5:A3:458:LYS:HD2	2.55	0.41
6:A4:264:ARG:NH1	6:A4:305:GLU:OE1	2.53	0.41
6:A5:453:TYR:CD2	6:A5:454:VAL:HG23	2.55	0.41
6:A7:159:ALA:HB3	6:A7:228:MET:HE2	2.02	0.41
6:A8:128:ARG:NH1	6:A8:490:GLN:O	2.53	0.41
6:A8:456:LEU:HD12	5:BA:65:TYR:HD2	1.84	0.41
8:AB:230:PHE:HB3	8:AB:258:ASN:HA	2.03	0.41
3:AE:41:LEU:HD13	3:AF:142:LEU:HD22	2.01	0.41
3:AF:120:ALA:HB3	3:AF:121:LYS:HD2	2.02	0.41
3:AG:14:ASP:OD1	3:o:103:LYS:HA	2.21	0.41
3:AJ:67:ASP:OD1	3:AJ:67:ASP:N	2.53	0.41
2:AK:455:LYS:HB2	2:AK:470:LEU:HD13	2.02	0.41
2:AL:130:LYS:HD3	2:AL:132:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:503:ILE:HG13	2:AL:504:LYS:N	2.32	0.41
2:AN:160:TYR:HA	2:AN:161:PRO:HA	1.90	0.41
2:AN:450:ILE:O	2:AN:523:ASN:ND2	2.52	0.41
2:AN:494:TYR:CZ	2:B2:569:LYS:HG3	2.56	0.41
2:AP:636:ASN:HD22	2:Bp:621:ASN:HB3	1.85	0.41
6:AV:204:ASP:OD1	6:AV:205:ALA:N	2.54	0.41
6:AV:250:MET:HE3	6:AV:250:MET:HB2	1.91	0.41
6:AV:331:VAL:HG11	6:AV:519:LYS:HE2	2.01	0.41
6:AW:237:GLU:HB2	6:AW:247:TRP:HE1	1.86	0.41
6:AX:131:TYR:CE1	6:AX:141:LYS:HB2	2.56	0.41
6:AX:431:GLN:HG3	6:AX:432:ASP:H	1.84	0.41
7:AY:73:VAL:HG11	7:Aq:216:SER:HA	2.01	0.41
7:AY:81:VAL:HG22	7:AY:188:THR:HG22	2.03	0.41
7:Ab:308:VAL:HG11	5:Av:328:MET:HG2	2.01	0.41
6:Ac:456:LEU:N	6:Ac:475:THR:HG22	2.32	0.41
6:Ae:498:SER:HB3	6:Ae:500:MET:HE3	2.02	0.41
6:Af:456:LEU:HD23	6:Af:456:LEU:HA	1.89	0.41
6:An:143:ALA:HB2	6:An:250:MET:HE1	2.03	0.41
7:Ar:2:SER:N	4:T:30:GLU:OE2	2.54	0.41
6:Au:328:LYS:HD2	6:Au:328:LYS:HA	1.87	0.41
5:Av:96:VAL:HG22	5:Av:147:PHE:HD2	1.85	0.41
5:Av:160:LYS:NZ	5:Av:233:ALA:O	2.31	0.41
6:Aw:431:GLN:HG3	6:Aw:432:ASP:H	1.85	0.41
6:Ay:431:GLN:HG3	6:Ay:432:ASP:H	1.85	0.41
2:B2:332:GLU:CD	2:B2:332:GLU:H	2.27	0.41
2:B3:110:TYR:H	2:B3:138:GLY:HA3	1.84	0.41
2:B3:451:ASP:OD1	2:B3:452:GLY:N	2.41	0.41
2:B3:464:VAL:HG12	2:B4:313:ASP:HB3	2.02	0.41
2:B4:438:ASP:OD1	2:B4:438:ASP:N	2.53	0.41
2:B4:451:ASP:OD2	2:B4:470:LEU:HB3	2.20	0.41
2:B4:550:ARG:HA	2:B4:550:ARG:HE	1.85	0.41
2:B5:451:ASP:HB2	2:B5:474:ILE:HD13	2.02	0.41
2:B6:379:ALA:HB2	2:B6:469:PRO:HD3	2.03	0.41
2:B7:104:SER:HG	2:B7:183:THR:HG1	1.61	0.41
5:BB:158:PHE:HB2	5:BB:236:VAL:HB	2.01	0.41
5:BB:248:LYS:HA	5:BB:248:LYS:HD3	1.85	0.41
5:BG:259:LYS:HB3	5:BG:260:PRO:HD3	2.02	0.41
5:BH:85:ASN:CG	5:BH:265:LYS:HE2	2.45	0.41
5:BH:86:TYR:C	5:BH:88:VAL:H	2.28	0.41
6:BI:131:TYR:CE1	6:BI:141:LYS:HB2	2.56	0.41
6:BI:274:LEU:HD23	6:BM:67:GLU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BI:481:ILE:HG12	6:BI:499:GLY:O	2.20	0.41
6:BJ:312:TYR:CE2	6:BJ:507:LEU:HD13	2.55	0.41
3:BY:77:GLU:OE2	3:Bn:118:ARG:N	2.54	0.41
3:Bf:17:ARG:O	3:Bi:151:GLN:NE2	2.53	0.41
3:Bo:104:PRO:HA	3:Bo:107:TYR:CZ	2.55	0.41
2:Bp:159:GLU:OE2	2:Bp:166:ASN:ND2	2.53	0.41
2:Bv:510:ARG:HG2	2:Bv:511:GLN:H	1.84	0.41
2:Bv:549:ASP:OD1	2:By:271:TYR:OH	2.32	0.41
2:Bw:379:ALA:HB2	2:Bw:454:TYR:CE2	2.55	0.41
2:By:30:ALA:HB3	2:By:359:TRP:CD1	2.56	0.41
2:By:32:LYS:HZ3	2:By:350:VAL:HB	1.84	0.41
2:By:44:VAL:HG11	2:By:50:LEU:HB2	2.02	0.41
1:p:36:TYR:HD1	1:p:36:TYR:HA	1.75	0.41
8:t:142:GLN:O	8:t:144:HIS:N	2.54	0.41
1:0:61:VAL:HG22	1:0:83:ALA:HB2	2.03	0.41
2:1:272:GLY:O	2:1:274:GLN:NE2	2.42	0.41
2:2:303:ASP:OD1	2:2:304:ILE:N	2.53	0.41
2:2:612:ASN:HB3	2:2:624:VAL:HG23	2.03	0.41
2:4:131:ILE:HD13	2:4:140:ILE:HG21	2.03	0.41
3:8:99:ILE:HD11	3:AI:1:MET:HB2	2.03	0.41
4:A:44:MET:HE2	4:A:44:MET:HB3	1.92	0.41
5:A0:121:LYS:O	5:A0:125:MET:HG2	2.21	0.41
5:A3:82:LEU:HD11	5:A3:261:ALA:HB3	2.02	0.41
5:A3:481:ILE:HG13	5:A3:485:THR:HB	2.01	0.41
7:A6:127:ARG:HA	7:A6:127:ARG:NH1	2.36	0.41
6:A8:124:VAL:HG21	6:A8:444:MET:HE1	2.03	0.41
3:AA:36:CYS:HA	3:AA:73:VAL:HA	2.03	0.41
3:AA:89:GLN:HG3	3:AA:134:PRO:HG2	2.01	0.41
3:AF:140:LEU:HD21	3:AF:151:GLN:OE1	2.19	0.41
3:AI:87:ASP:O	3:AI:91:ILE:HG13	2.20	0.41
2:AL:430:ARG:NH2	2:AL:443:ILE:O	2.52	0.41
2:AL:494:TYR:O	2:AL:498:GLN:NE2	2.52	0.41
2:AL:642:PHE:HB3	2:Bv:557:PHE:HE2	1.84	0.41
2:AN:256:PRO:HG2	2:AN:339:THR:H	1.85	0.41
2:AO:254:ILE:HG22	2:AO:257:GLY:H	1.85	0.41
2:AO:373:PHE:HZ	2:AO:400:ARG:HH11	1.67	0.41
2:AP:381:GLU:HB3	2:AP:385:THR:HG23	2.01	0.41
6:AV:400:LEU:HD12	6:AV:400:LEU:HA	1.94	0.41
6:AX:421:TYR:HE2	6:BK:400:LEU:HD11	1.85	0.41
7:Aa:70:LYS:NZ	5:Av:318:THR:O	2.50	0.41
6:Ag:291:SER:HB2	6:Ag:471:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:328:LYS:HB2	6:Ag:331:VAL:HG13	2.02	0.41
6:Ag:426:ASP:HB3	6:Ag:429:ALA:HB2	2.02	0.41
6:Ai:133:LYS:NZ	6:Ai:249:GLU:OE2	2.53	0.41
6:Aj:515:ARG:NH1	6:Aj:517:TYR:OH	2.54	0.41
6:Ak:426:ASP:OD2	6:Ak:433:TYR:OH	2.31	0.41
6:Am:449:TYR:OH	6:Am:482:ASN:OD1	2.33	0.41
6:An:278:LEU:HD12	6:An:284:MET:HB2	2.03	0.41
6:An:318:LYS:HD3	6:An:356:GLN:CD	2.45	0.41
6:Ao:97:GLY:HA3	6:BM:444:MET:HE2	2.03	0.41
6:Ap:270:TYR:HB3	6:Ap:290:LEU:CD1	2.50	0.41
7:Ar:53:LEU:HD21	7:Ar:82:PHE:CD2	2.55	0.41
6:Au:350:PHE:HD2	6:Au:389:VAL:HG13	1.86	0.41
5:Av:440:GLU:O	5:Av:444:ILE:HG22	2.21	0.41
6:Aw:348:GLU:HB3	6:Aw:396:ALA:HB2	2.03	0.41
5:Ax:420:ASP:HB3	5:Ax:421:PRO:HD3	2.03	0.41
6:Az:121:THR:HG22	6:Az:260:GLU:HG3	2.01	0.41
2:B1:572:LEU:HA	2:B1:572:LEU:HD12	1.76	0.41
2:B4:32:LYS:HZ2	2:B4:64:TYR:HE2	1.67	0.41
2:B4:412:GLU:H	2:B4:412:GLU:CD	2.29	0.41
2:B4:567:SER:O	2:B4:571:ARG:HG2	2.20	0.41
2:B7:510:ARG:HG2	2:B7:511:GLN:H	1.85	0.41
5:BB:295:ARG:HA	5:BB:295:ARG:HD3	1.86	0.41
5:BB:304:VAL:O	5:BB:308:MET:HB3	2.20	0.41
5:BB:420:ASP:HB3	5:BB:421:PRO:HD3	2.03	0.41
7:BE:301:ASP:OD1	7:BE:301:ASP:N	2.53	0.41
5:BG:420:ASP:HB3	5:BG:421:PRO:HD3	2.03	0.41
6:BJ:408:THR:HG22	6:BJ:425:ILE:HG21	2.03	0.41
3:BY:47:GLU:HB2	3:Bc:148:ASN:OD1	2.20	0.41
3:Bd:83:GLN:NE2	3:Bd:87:ASP:OD1	2.53	0.41
3:Be:98:GLU:OE1	3:Be:98:GLU:N	2.44	0.41
3:Bg:54:MET:O	3:Bg:56:ARG:N	2.53	0.41
3:Bg:70:THR:HG22	3:Bg:156:THR:HG22	2.02	0.41
2:Bp:137:ASP:OD1	2:Bp:137:ASP:N	2.54	0.41
2:Br:95:ILE:HG23	2:Br:217:TYR:HE2	1.85	0.41
2:Br:389:VAL:O	2:Br:393:VAL:HG23	2.21	0.41
2:Bs:220:PRO:HG2	2:Bs:338:LEU:HD11	2.01	0.41
2:Bt:115:LYS:HD2	2:Bt:115:LYS:HA	1.86	0.41
2:Bt:283:VAL:O	2:Bt:290:VAL:HG12	2.18	0.41
2:Bw:106:PRO:HB3	2:Bw:139:LYS:HD2	2.02	0.41
2:By:205:MET:HE2	2:By:205:MET:HB3	1.93	0.41
2:By:560:LEU:HD21	2:By:601:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bz:57:PRO:HG3	2:Bz:65:PHE:CG	2.55	0.41
2:Bz:633:ARG:HD2	2:Bz:633:ARG:HA	1.97	0.41
4:T:10:PHE:HB3	4:T:22:ILE:HG12	2.02	0.41
1:m:152:VAL:HG13	1:m:169:ILE:HD13	2.03	0.41
8:r:84:TYR:OH	8:s:143:PRO:HD3	2.20	0.41
1:0:176:TYR:HA	8:q:71:ILE:HG13	2.02	0.41
2:2:45:THR:HA	2:2:76:ASN:O	2.19	0.41
2:3:612:ASN:HB3	2:3:624:VAL:HG23	2.01	0.41
2:4:430:ARG:NH2	2:4:443:ILE:H	2.19	0.41
2:4:561:LYS:HG2	8:t:216:PHE:CE1	2.56	0.41
2:5:310:TYR:HD2	2:5:313:ASP:HB2	1.84	0.41
3:6:95:GLN:OE1	3:o:64:ARG:NH2	2.54	0.41
3:8:125:LYS:HG2	3:9:79:HIS:CD2	2.55	0.41
3:9:125:LYS:HG2	3:AA:79:HIS:HB2	2.02	0.41
5:A0:160:LYS:HA	5:A0:174:LEU:HD23	2.01	0.41
5:A0:308:MET:HE1	5:A0:334:TYR:HE1	1.85	0.41
5:A3:36:LEU:HB3	5:A3:38:ASP:OD2	2.21	0.41
5:A3:481:ILE:HD12	5:A3:481:ILE:HA	1.95	0.41
6:A5:426:ASP:OD2	6:A5:433:TYR:OH	2.32	0.41
6:A5:444:MET:HE2	6:A5:444:MET:HB3	1.82	0.41
7:A6:23:PRO:HD3	1:p:12:LEU:HD21	2.03	0.41
9:AC:140:GLU:H	9:AC:140:GLU:HG3	1.55	0.41
2:AD:131:ILE:HD13	2:AD:140:ILE:HG21	2.00	0.41
2:AD:310:TYR:O	2:AD:314:PHE:HB2	2.20	0.41
2:AD:635:ILE:O	2:AN:573:PHE:HA	2.20	0.41
3:AE:77:GLU:HA	3:AJ:16:ALA:HB2	2.02	0.41
3:AF:83:GLN:HA	3:AF:86:VAL:HG22	2.03	0.41
3:AH:56:ARG:HB3	3:AH:56:ARG:NH1	2.35	0.41
3:AI:91:ILE:HG22	3:AI:107:TYR:HB3	2.03	0.41
2:AL:66:MET:HG2	2:AL:468:VAL:HG21	2.01	0.41
2:AL:494:TYR:CZ	2:Bv:569:LYS:HG3	2.56	0.41
2:AN:195:LEU:HD22	2:AN:205:MET:HE3	2.03	0.41
2:AO:108:SER:O	2:AO:177:GLY:HA2	2.20	0.41
10:AS:325:TRP:HA	10:AS:338:ARG:HH21	1.85	0.41
10:AT:372:ILE:HG22	10:AT:373:TYR:HD1	1.84	0.41
6:AV:228:MET:HG2	6:Ap:263:SER:O	2.21	0.41
6:AV:322:THR:OG1	6:AV:514:ARG:NH2	2.54	0.41
7:AY:280:GLN:O	7:AY:284:GLU:HG2	2.20	0.41
6:AZ:133:LYS:HG2	6:AZ:249:GLU:HB2	2.02	0.41
7:Aa:266:HIS:O	1:k:54:ARG:NH2	2.36	0.41
6:Ac:346:ALA:HB2	6:Ag:341:ARG:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:344:ARG:HH21	6:Ak:344:ARG:HH12	1.68	0.41
6:Ak:131:TYR:HA	6:Ak:250:MET:HA	2.02	0.41
6:Ap:404:PHE:HZ	6:Ap:417:LEU:HG	1.85	0.41
7:Aq:273:GLY:O	1:m:160:GLN:NE2	2.51	0.41
7:Ar:52:GLY:HA2	7:Ar:190:SER:OG	2.20	0.41
7:At:6:PRO:HG3	7:At:15:VAL:HG21	2.01	0.41
6:Aw:407:ASP:OD1	6:Aw:409:THR:N	2.53	0.41
6:Ay:345:TRP:HB3	6:Ay:348:GLU:HG2	2.01	0.41
2:B1:134:VAL:HG12	2:B1:140:ILE:HA	2.03	0.41
2:B1:193:ILE:HB	2:B1:210:PHE:CD1	2.56	0.41
2:B2:163:LEU:HD12	2:B2:186:LYS:HA	2.02	0.41
2:B2:404:LEU:HD12	2:B2:406:LEU:HG	2.02	0.41
2:B2:655:THR:HB	2:B5:19:VAL:HG21	2.01	0.41
2:B4:241:LYS:HB2	2:B4:273:PRO:HB2	2.02	0.41
2:B4:428:ASN:HA	2:B4:433:ALA:HB3	2.02	0.41
2:B5:406:LEU:HD13	2:B5:475:ALA:HB2	2.01	0.41
2:B6:134:VAL:HG12	2:B6:140:ILE:HG22	2.02	0.41
2:B6:404:LEU:HD22	2:B6:404:LEU:HA	1.93	0.41
5:BB:160:LYS:HE2	5:BB:424:THR:OG1	2.21	0.41
7:BE:28:GLU:OE1	1:p:42:LEU:HD11	2.21	0.41
7:BE:36:ASP:OD1	7:BE:40:ARG:NH1	2.53	0.41
7:BE:124:SER:HB3	7:BE:127:ARG:NH1	2.36	0.41
6:BJ:384:ASN:C	6:BJ:384:ASN:HD22	2.28	0.41
6:BK:345:TRP:O	6:BK:347:GLY:N	2.53	0.41
6:BK:486:GLU:HA	6:BK:509:LYS:O	2.20	0.41
6:BM:133:LYS:HG3	6:BM:249:GLU:CD	2.45	0.41
6:BM:170:THR:HG22	6:BM:198:ILE:HG21	2.02	0.41
3:BZ:20:LEU:HA	3:Bn:54:MET:HE3	2.01	0.41
3:BZ:94:GLY:O	3:Bo:64:ARG:NH1	2.54	0.41
3:Bd:20:LEU:HD11	3:Bd:118:ARG:HD2	2.01	0.41
2:Bp:607:VAL:HB	2:Bp:626:THR:OG1	2.20	0.41
2:Bq:101:TYR:CE2	2:Bq:143:ILE:HG12	2.55	0.41
2:Bs:266:LYS:HE3	2:Bs:266:LYS:HB3	1.93	0.41
2:Bt:46:ASN:OD1	2:Bt:47:GLU:N	2.53	0.41
2:Bt:151:ILE:O	2:Bt:155:LYS:HG2	2.20	0.41
2:Bw:114:ASP:OD2	2:Bw:131:ILE:HD12	2.21	0.41
2:Bw:255:TYR:HB2	2:Bw:256:PRO:HD3	2.03	0.41
2:Bx:269:PHE:CZ	2:Bx:280:ALA:HB1	2.56	0.41
2:By:284:ARG:HG2	2:By:289:ILE:HG12	2.02	0.41
2:Bz:518:TYR:CZ	2:Bz:539:LYS:HE2	2.56	0.41
4:G:52:LEU:HD21	4:R:12:ASP:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:44:MET:HE2	4:K:44:MET:HB3	1.87	0.41
1:m:74:GLU:HB2	8:t:126:TYR:CD1	2.56	0.41
1:m:156:ASP:HB3	1:m:157:PRO:HD3	2.03	0.41
1:n:207:LEU:O	1:n:210:ILE:HG13	2.21	0.41
8:u:72:LEU:HD23	8:u:72:LEU:HA	1.68	0.41
9:x:46:VAL:HG22	9:y:134:TRP:CH2	2.55	0.41
9:z:37:VAL:HG13	9:z:73:VAL:HG22	2.03	0.41
1:0:243:LYS:N	8:AB:4:TYR:H	2.17	0.41
2:1:638:ILE:HG23	2:AO:623:PHE:HD2	1.86	0.41
2:2:157:VAL:HG23	2:2:159:GLU:H	1.86	0.41
2:2:569:LYS:O	2:2:572:LEU:HB2	2.21	0.41
2:3:394:VAL:HG21	2:3:441:PHE:HZ	1.86	0.41
2:5:423:VAL:HG21	2:5:513:GLN:HB3	2.02	0.41
5:A0:220:ARG:HB2	6:BJ:452:PRO:HG2	2.03	0.41
5:A1:285:TRP:HZ3	5:A1:336:LEU:HD21	1.84	0.41
5:A3:61:ILE:HG23	5:A3:227:LYS:HB2	2.03	0.41
5:A3:216:ALA:O	5:A3:218:ASP:N	2.53	0.41
5:A3:477:ILE:HA	5:A3:481:ILE:HG22	2.01	0.41
6:A4:312:TYR:CZ	6:A4:507:LEU:HG	2.56	0.41
6:A7:182:PHE:HB2	6:A7:184:GLU:O	2.20	0.41
6:A8:481:ILE:HD11	6:A8:501:PRO:HB3	2.03	0.41
6:A9:161:LYS:HE3	6:A9:163:PHE:CE1	2.56	0.41
8:AB:97:LEU:HD21	2:AD:575:LEU:HD11	2.03	0.41
3:AI:22:GLN:HB2	3:AI:116:TYR:HE1	1.85	0.41
3:AJ:54:MET:SD	3:Bm:1:MET:HE1	2.60	0.41
2:AK:410:PRO:O	2:AK:413:THR:HG22	2.20	0.41
2:AL:413:THR:C	2:AL:417:ILE:HD11	2.45	0.41
2:AL:535:LEU:HD23	2:AL:536:TYR:H	1.85	0.41
2:AM:454:TYR:HB3	2:AM:467:TRP:CD1	2.54	0.41
2:AN:252:LEU:HD22	2:AN:335:SER:O	2.21	0.41
2:AO:110:TYR:CD1	2:AO:177:GLY:HA3	2.55	0.41
2:AP:430:ARG:O	2:AP:430:ARG:HD3	2.21	0.41
10:AR:295:HIS:NE2	6:Ag:333:ASP:OD2	2.53	0.41
6:AW:232:ILE:O	6:AW:236:GLN:HG2	2.20	0.41
6:AW:310:ILE:HG12	6:AW:448:ILE:HG21	2.02	0.41
7:AY:23:PRO:HA	1:n:17:GLY:HA2	2.03	0.41
6:Ac:181:PHE:HD1	6:Ac:187:THR:HB	1.85	0.41
6:Ae:486:GLU:CD	6:Ae:486:GLU:H	2.28	0.41
6:Af:285:ASP:OD1	6:Af:285:ASP:N	2.37	0.41
6:Ag:255:ASP:OD1	6:Ag:255:ASP:N	2.52	0.41
6:Ah:123:GLN:HB3	6:Ah:258:VAL:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:272:ILE:HG13	6:Ah:469:PRO:HD3	2.03	0.41
6:Ah:376:ILE:HB	6:Ah:423:VAL:HG22	2.01	0.41
6:Ak:237:GLU:N	6:Ak:245:ASN:O	2.48	0.41
6:Ak:374:ASN:ND2	6:Ak:439:LYS:O	2.48	0.41
6:Am:304:ARG:NH2	6:Am:308:ASP:OD1	2.54	0.41
6:Ao:191:GLN:HB2	6:Ao:224:ILE:HG21	2.02	0.41
6:Ap:131:TYR:HB2	6:Ap:154:PHE:CZ	2.55	0.41
6:Ap:378:ALA:HB1	6:Ap:382:VAL:HB	2.02	0.41
6:Au:249:GLU:HA	6:BJ:267:LYS:O	2.21	0.41
5:Av:420:ASP:HB3	5:Av:421:PRO:HD3	2.02	0.41
5:Av:427:LEU:HD21	5:Av:434:GLU:HG3	2.03	0.41
6:Aw:107:ILE:C	6:Aw:303:ASN:HD21	2.28	0.41
5:Ax:283:ARG:HH11	5:BA:350:LEU:HD21	1.86	0.41
5:Ax:451:ASP:O	5:BA:458:LYS:NZ	2.30	0.41
6:Az:183:GLN:HG2	6:Az:209:ASP:OD2	2.21	0.41
2:B1:110:TYR:CE1	2:B1:171:ILE:HG21	2.52	0.41
2:B2:151:ILE:O	2:B2:155:LYS:HG2	2.21	0.41
2:B3:112:VAL:HG13	2:B3:134:VAL:HG13	2.03	0.41
2:B3:389:VAL:O	2:B3:393:VAL:HG23	2.21	0.41
2:B5:269:PHE:CE1	2:B5:280:ALA:HB1	2.55	0.41
2:B5:423:VAL:HG21	2:B5:513:GLN:HB3	2.03	0.41
2:B5:511:GLN:NE2	2:B5:515:ASP:OD1	2.53	0.41
2:B6:252:LEU:HB3	2:B6:336:GLY:HA2	2.03	0.41
5:BA:413:LYS:HA	5:BA:413:LYS:HD2	1.89	0.41
5:BB:71:THR:O	5:BB:74:GLU:HG3	2.20	0.41
5:BD:206:PHE:HE2	5:BD:232:LYS:HG2	1.86	0.41
5:BD:484:ARG:HA	5:BD:487:MET:HE2	2.02	0.41
5:BD:497:GLU:HA	5:BD:500:GLN:HG2	2.03	0.41
7:BE:28:GLU:H	7:BE:28:GLU:HG2	1.59	0.41
7:BE:269:MET:HE3	7:BE:277:ILE:HG21	2.03	0.41
5:BF:396:ILE:HD12	5:BF:396:ILE:HA	1.91	0.41
5:BG:26:GLU:O	5:BG:28:LEU:HG	2.21	0.41
5:BG:366:ARG:HG2	5:BG:380:ILE:HD12	2.03	0.41
5:BH:206:PHE:HZ	5:BH:237:TYR:HB2	1.86	0.41
6:BK:108:ALA:HB2	6:BK:303:ASN:HB2	2.03	0.41
3:Ba:154:GLU:N	3:Ba:154:GLU:OE1	2.53	0.41
3:Bb:67:ASP:N	3:Bb:67:ASP:OD1	2.53	0.41
3:Bb:114:ARG:HB3	3:Bb:123:VAL:HG13	2.02	0.41
3:Bc:83:GLN:HA	3:Bc:86:VAL:HG22	2.02	0.41
3:Bh:140:LEU:HD21	3:Bh:151:GLN:OE1	2.20	0.41
3:Bj:64:ARG:HH12	3:Bm:95:GLN:NE2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bm:123:VAL:HG12	3:Bm:126:GLU:HB2	2.03	0.41
3:Bn:90:SER:HA	3:Bn:94:GLY:H	1.84	0.41
2:Bp:365:ARG:HA	2:Bp:400:ARG:CZ	2.51	0.41
2:Bp:394:VAL:HG11	2:Bp:443:ILE:HD12	2.03	0.41
2:Bq:126:GLU:HB2	2:Bq:150:ILE:HD11	2.03	0.41
2:Bq:238:ILE:HG12	2:Bq:281:ILE:HG23	2.02	0.41
2:Bq:470:LEU:O	2:Bq:474:ILE:HG12	2.20	0.41
2:Bs:38:ALA:HB3	2:Bs:196:ALA:HB1	2.02	0.41
2:Bs:222:VAL:HA	2:Bs:325:ALA:HB2	2.03	0.41
2:Bs:519:GLN:HE21	2:Bv:4:LEU:HD13	1.85	0.41
2:Bv:229:GLU:OE1	2:Bv:344:LEU:HD22	2.20	0.41
2:Bv:251:LEU:HB3	2:Bv:260:THR:HB	2.02	0.41
2:Bx:92:SER:OG	2:Bx:232:ASP:OD1	2.29	0.41
2:By:414:VAL:HG23	2:By:422:ALA:HB1	2.02	0.41
2:By:473:ASP:HB3	2:By:499:ILE:HG23	2.03	0.41
4:G:9:PRO:O	4:G:20:SER:N	2.54	0.41
4:K:44:MET:HE1	4:L:44:MET:HG2	2.02	0.41
4:Z:66:LYS:HE3	4:Z:66:LYS:HB3	1.91	0.41
4:b:6:ASN:HB2	4:b:57:VAL:HG13	2.01	0.41
4:b:23:SER:HB3	4:b:46:ARG:HD2	2.01	0.41
1:k:109:GLN:HA	8:r:70:THR:HG23	2.03	0.41
1:m:154:PRO:HA	1:m:167:ARG:HD3	2.01	0.41
8:s:87:PRO:HA	9:y:146:THR:HB	2.01	0.41
8:t:88:PHE:CE1	9:y:152:ALA:HB2	2.55	0.41
1:0:17:GLY:HA2	7:BE:23:PRO:HA	2.03	0.41
1:0:55:GLY:HA2	1:0:89:TYR:HA	2.01	0.41
2:1:346:SER:O	2:1:350:VAL:HG23	2.21	0.41
2:1:505:LEU:HA	2:1:505:LEU:HD12	1.80	0.41
2:2:639:THR:HB	2:AP:624:VAL:HG12	2.02	0.41
3:6:18:PRO:HG2	3:7:149:GLU:HB3	2.02	0.41
3:8:109:LYS:O	3:8:132:LEU:N	2.39	0.41
5:A0:161:ILE:HD11	5:A0:175:ARG:HG3	2.02	0.41
5:A2:428:LEU:HD13	5:A2:428:LEU:HA	1.90	0.41
5:A3:66:GLU:N	5:A3:69:MET:HE3	2.34	0.41
5:A3:379:ARG:NE	5:A3:400:GLU:OE2	2.54	0.41
6:A5:118:ASN:OD1	6:A5:118:ASN:N	2.44	0.41
7:A6:99:ASP:O	7:A6:145:THR:HG23	2.20	0.41
6:A7:142:GLU:HB2	6:A7:490:GLN:HB2	2.03	0.41
6:A8:259:ILE:HG21	6:A8:480:GLY:HA3	2.03	0.41
6:A8:314:ALA:HA	6:A8:513:PHE:HB2	2.02	0.41
6:A9:485:ALA:C	6:A9:487:SER:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:66:MET:HE1	2:AD:459:ASP:OD1	2.21	0.41
3:AI:16:ALA:HB2	3:AJ:76:ASP:O	2.21	0.41
3:AI:17:ARG:O	3:AI:115:GLN:NE2	2.54	0.41
2:AK:147:THR:HG22	2:AK:150:ILE:HD12	2.03	0.41
2:AK:188:ILE:H	2:AK:188:ILE:HG13	1.66	0.41
2:AK:494:TYR:OH	2:Bs:569:LYS:NZ	2.50	0.41
2:AM:42:LYS:HE3	2:AM:42:LYS:HB3	1.92	0.41
2:AM:44:VAL:HG11	2:AM:50:LEU:HB2	2.03	0.41
2:AN:526:THR:OG1	2:B2:366:GLU:OE1	2.39	0.41
2:AO:269:PHE:CZ	2:AO:292:SER:HB2	2.56	0.41
10:AQ:292:PRO:HD2	10:AQ:340:THR:OG1	2.20	0.41
10:AS:320:GLU:HG3	10:AS:376:PRO:O	2.20	0.41
6:AV:236:GLN:HG3	6:Ap:265:GLN:HE21	1.84	0.41
6:AV:383:VAL:HG21	6:AV:425:ILE:HG12	2.03	0.41
7:AY:117:ILE:HA	7:AY:121:MET:HE3	2.02	0.41
6:AZ:211:GLU:O	6:AZ:215:GLN:HG2	2.21	0.41
6:AZ:267:LYS:HE3	6:AZ:470:VAL:HG21	2.02	0.41
7:Aa:104:TYR:O	7:Aa:104:TYR:CG	2.71	0.41
6:Ad:71:ASP:OD1	6:Ad:72:HIS:N	2.54	0.41
6:Ad:285:ASP:HB3	6:Ad:287:ASP:OD1	2.20	0.41
6:Ae:264:ARG:NH2	6:Ai:152:ALA:O	2.47	0.41
6:Ag:481:ILE:HD13	6:Ag:506:SER:HB3	2.01	0.41
6:Ah:106:LEU:HB2	6:Ah:303:ASN:CG	2.45	0.41
6:Ah:384:ASN:ND2	6:Ah:406:THR:HG21	2.35	0.41
6:Aj:72:HIS:C	6:Aj:74:TYR:H	2.29	0.41
6:Aj:314:ALA:HA	6:Aj:513:PHE:HB2	2.01	0.41
6:Ak:153:MET:HE2	6:Ak:226:GLU:HG2	2.03	0.41
6:Ak:336:ASP:O	6:Ak:340:ILE:HG12	2.21	0.41
7:Al:63:GLY:O	7:Al:179:TYR:N	2.41	0.41
6:Am:363:GLU:OE2	6:Am:366:ARG:NH2	2.34	0.41
6:An:454:VAL:HG22	6:An:476:ARG:HB2	2.02	0.41
6:Ap:317:GLY:HA2	6:Ap:514:ARG:NH1	2.36	0.41
7:Aq:6:PRO:HB3	7:Aq:11:GLU:HB3	2.03	0.41
7:Aq:109:ASP:OD2	6:BK:453:TYR:OH	2.30	0.41
7:Ar:84:VAL:HG13	7:Ar:184:VAL:HB	2.02	0.41
7:As:12:LEU:O	7:As:16:ILE:HG12	2.21	0.41
5:Av:256:ARG:NH2	5:Av:372:ALA:O	2.48	0.41
2:B1:130:LYS:HE2	2:B1:130:LYS:HB2	1.93	0.41
2:B1:564:ILE:HD11	2:Bz:642:PHE:CE2	2.56	0.41
2:B3:510:ARG:NH2	2:B4:360:ASP:HB3	2.35	0.41
2:B3:645:THR:OG1	2:B4:629:ILE:O	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:39:PHE:HA	2:B4:81:VAL:HG23	2.03	0.41
2:B4:638:ILE:HD12	2:B7:8:ILE:HD11	2.02	0.41
2:B5:106:PRO:HB3	2:B5:139:LYS:HA	2.02	0.41
2:B5:524:PRO:O	2:B5:535:LEU:HD23	2.20	0.41
2:B5:598:LEU:HD23	2:B5:598:LEU:HA	1.88	0.41
5:BA:9:PHE:HB3	5:BA:12:TRP:HD1	1.86	0.41
5:BA:330:MET:HG2	5:BH:280:PRO:HG2	2.03	0.41
5:BB:31:ILE:H	5:BB:31:ILE:HG12	1.61	0.41
7:BC:34:ILE:O	7:BC:38:ILE:HG12	2.20	0.41
7:BC:50:PHE:HE2	7:BC:300:LEU:HD22	1.85	0.41
5:BG:212:HIS:ND1	5:BG:222:TYR:HA	2.35	0.41
6:BJ:163:PHE:HB2	6:BJ:179:THR:HG23	2.01	0.41
6:BK:170:THR:H	6:BK:198:ILE:HG22	1.85	0.41
6:BM:104:PRO:HG2	6:BM:300:LEU:HD21	2.02	0.41
6:BM:202:ALA:HA	6:BM:207:LYS:HD3	2.02	0.41
3:BX:22:GLN:HB2	3:BX:116:TYR:HE1	1.86	0.41
3:BX:42:PRO:O	3:BX:43:ALA:HB2	2.20	0.41
3:Bd:67:ASP:OD1	3:Bd:67:ASP:N	2.54	0.41
3:Bg:56:ARG:HB3	3:Bg:56:ARG:HH11	1.86	0.41
3:Bk:87:ASP:O	3:Bk:91:ILE:HG13	2.21	0.41
3:Bm:137:VAL:HG23	3:Bm:155:VAL:HG22	2.03	0.41
3:Bo:83:GLN:HA	3:Bo:86:VAL:HG22	2.01	0.41
2:Bq:641:ASN:HB2	2:Br:626:THR:HG23	2.03	0.41
2:Bt:26:THR:HA	2:Bt:77:ASP:O	2.20	0.41
2:Bu:33:PHE:HD2	2:Bu:82:ARG:HA	1.86	0.41
2:Bu:110:TYR:CE1	2:Bu:177:GLY:HA3	2.56	0.41
2:Bu:557:PHE:CZ	2:Bu:629:ILE:HD11	2.56	0.41
2:Bv:228:GLY:HA2	2:Bv:345:SER:HB3	2.03	0.41
2:Bv:253:PRO:HD2	2:Bv:335:SER:O	2.21	0.41
2:Bw:382:SER:HB3	2:Bw:385:THR:HG22	2.03	0.41
2:Bx:130:LYS:HB2	2:Bx:130:LYS:HE2	1.85	0.41
2:Bx:229:GLU:H	2:Bx:229:GLU:CD	2.28	0.41
2:By:427:VAL:HG13	2:By:520:GLU:HG3	2.02	0.41
2:By:538:ASP:OD1	2:By:538:ASP:N	2.52	0.41
2:Bz:193:ILE:HG12	2:Bz:223:VAL:HG21	2.03	0.41
4:e:10:PHE:HB3	4:e:22:ILE:HG12	2.02	0.41
8:r:238:VAL:HG13	8:r:239:PRO:HD2	2.03	0.41
8:s:243:ASP:OD1	8:s:243:ASP:N	2.54	0.41
8:s:244:PRO:HB2	9:w:5:LEU:HD11	2.03	0.41
8:t:134:VAL:HG21	8:t:188:TRP:CE3	2.56	0.41
8:u:187:GLU:C	8:u:188:TRP:HD1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:y:149:SER:O	9:y:151:PRO:HD3	2.20	0.41
2:1:237:GLU:OE1	2:1:284:ARG:NH1	2.54	0.41
2:1:374:ILE:HA	2:1:406:LEU:HD12	2.02	0.41
2:2:422:ALA:O	2:2:426:LEU:HG	2.21	0.41
2:3:193:ILE:HG12	2:3:205:MET:HA	2.03	0.41
2:3:564:ILE:HD11	8:s:216:PHE:CZ	2.56	0.41
2:4:160:TYR:HA	2:4:161:PRO:HA	1.89	0.41
2:5:240:SER:O	2:5:244:TYR:HB2	2.21	0.41
2:5:360:ASP:OD1	2:5:392:HIS:NE2	2.46	0.41
3:6:21:PHE:HZ	3:6:38:ALA:HA	1.85	0.41
3:6:95:GLN:HG3	3:o:66:PHE:HZ	1.86	0.41
3:7:118:ARG:HA	3:7:118:ARG:HD2	1.91	0.41
3:9:41:LEU:HD23	3:AA:82:ARG:NH2	2.36	0.41
5:A0:104:ASP:OD2	5:BG:450:ARG:NH1	2.35	0.41
5:A0:232:LYS:HE2	5:A0:233:ALA:H	1.85	0.41
5:A0:295:ARG:HD2	7:BC:187:TRP:CE2	2.55	0.41
5:A0:440:GLU:O	5:A0:444:ILE:HG22	2.21	0.41
5:A1:55:ASN:O	5:A1:59:GLN:HB2	2.20	0.41
5:A1:128:ASP:O	5:A1:131:SER:OG	2.32	0.41
5:A1:382:GLN:NE2	5:BB:367:GLN:OE1	2.54	0.41
5:A2:89:ASP:OD2	5:BD:256:ARG:NH1	2.54	0.41
5:A2:345:THR:HG21	7:AY:306:ILE:HD11	2.02	0.41
5:A3:160:LYS:NZ	5:A3:233:ALA:O	2.49	0.41
5:A3:439:ASP:O	5:BG:135:ASN:ND2	2.54	0.41
6:A4:262:LYS:NZ	6:A5:226:GLU:OE2	2.41	0.41
6:A5:166:LEU:HD22	6:A5:198:ILE:HD12	2.02	0.41
6:A5:312:TYR:CZ	6:A5:507:LEU:HG	2.55	0.41
7:A6:126:ASN:HB2	7:A6:129:TYR:HE2	1.86	0.41
7:A6:160:ASP:HB3	5:BF:306:ASN:OD1	2.21	0.41
6:A7:78:ASN:ND2	11:BO:5:ARG:O	2.53	0.41
6:A7:105:ASN:ND2	6:A7:408:THR:O	2.53	0.41
6:A7:356:GLN:O	6:A7:360:GLU:HG2	2.21	0.41
6:A8:350:PHE:HB3	6:A8:389:VAL:HG11	2.02	0.41
6:A9:285:ASP:HA	5:Av:65:TYR:CE2	2.53	0.41
3:AA:94:GLY:HA3	3:AA:100:THR:HB	2.03	0.41
8:AB:96:ASN:N	8:AB:96:ASN:OD1	2.53	0.41
9:AC:35:GLN:HA	9:v:145:TYR:HD2	1.86	0.41
2:AD:26:THR:HA	2:AD:77:ASP:O	2.21	0.41
2:AD:406:LEU:HD13	2:AD:475:ALA:HB2	2.03	0.41
2:AD:554:ARG:O	2:AD:554:ARG:HD3	2.20	0.41
3:AH:94:GLY:HA3	3:AH:100:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:98:GLU:HG2	3:AI:100:THR:HG23	2.03	0.41
2:AK:35:TRP:CG	2:AK:36:GLY:H	2.38	0.41
2:AK:592:LEU:HD23	2:AK:604:TYR:HB2	2.03	0.41
2:AK:643:VAL:HG22	2:AL:15:VAL:H	1.86	0.41
2:AL:153:LYS:HD3	2:AL:153:LYS:HA	1.88	0.41
2:AL:228:GLY:HA2	2:AL:345:SER:HB3	2.02	0.41
2:AL:592:LEU:HD13	2:AL:592:LEU:HA	1.89	0.41
2:AL:638:ILE:HG21	2:Bv:568:SER:HB2	2.02	0.41
2:AM:413:THR:C	2:AM:417:ILE:HD11	2.46	0.41
2:AM:470:LEU:HD12	2:AM:470:LEU:HA	1.93	0.41
2:AM:538:ASP:HA	2:AM:551:ILE:HD12	2.03	0.41
2:AM:576:ASN:O	2:AM:576:ASN:ND2	2.45	0.41
2:AN:166:ASN:OD1	2:AN:166:ASN:N	2.54	0.41
2:AN:349:GLU:O	2:AN:350:VAL:C	2.64	0.41
2:AO:31:GLY:O	2:AO:82:ARG:HA	2.21	0.41
2:AO:518:TYR:CE2	2:AP:6:PRO:HD3	2.55	0.41
2:AP:188:ILE:H	2:AP:188:ILE:HG13	1.69	0.41
2:AP:351:THR:OG1	2:AP:352:ALA:N	2.53	0.41
2:AP:477:LEU:HD21	2:AP:497:GLY:HA2	2.02	0.41
2:AP:651:PHE:HD1	2:AP:651:PHE:HA	1.70	0.41
6:AV:334:PHE:HD2	6:AV:349:SER:HB3	1.86	0.41
6:AX:71:ASP:HB3	6:Af:230:THR:HB	2.02	0.41
6:AX:131:TYR:HE1	6:AX:141:LYS:HB2	1.86	0.41
6:AX:373:GLY:HA2	6:AX:438:TYR:HB2	2.03	0.41
7:AY:175:ASN:H	5:BD:320:LYS:HZ1	1.69	0.41
7:AY:199:GLY:HA2	7:AY:229:ARG:HH21	1.86	0.41
6:AZ:94:ALA:O	6:AZ:95:VAL:HG13	2.21	0.41
6:AZ:254:ILE:HG22	6:Am:89:THR:HG22	2.02	0.41
6:AZ:336:ASP:HB3	6:AZ:339:ASP:HB2	2.01	0.41
6:AZ:344:ARG:HG3	6:Ad:344:ARG:HH11	1.85	0.41
6:AZ:345:TRP:CD1	6:Ad:348:GLU:HB3	2.56	0.41
7:Aa:104:TYR:O	7:Aa:105:PRO:C	2.64	0.41
7:Aa:204:TYR:O	4:i:31:ILE:HB	2.19	0.41
7:Ab:55:LYS:HB2	7:Ab:187:TRP:CZ3	2.56	0.41
6:Ac:114:VAL:HG12	6:Ac:116:PRO:HD3	2.03	0.41
6:Ac:290:LEU:HD23	6:Ac:290:LEU:HA	1.91	0.41
6:Ac:305:GLU:HA	6:Ag:225:ALA:HB3	2.03	0.41
6:Ad:106:LEU:HB2	6:Ad:303:ASN:HD22	1.86	0.41
6:Ae:147:MET:HE3	6:Ae:147:MET:HB2	1.88	0.41
6:Af:161:LYS:HE3	6:Af:161:LYS:HB2	1.94	0.41
6:Ag:210:ALA:O	6:Ag:214:LYS:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:80:ALA:HB2	6:Bi:258:VAL:HG11	2.03	0.41
6:Ah:490:GLN:CD	6:Ah:490:GLN:H	2.28	0.41
7:Al:52:GLY:HA2	7:Al:190:SER:OG	2.21	0.41
7:Al:55:LYS:HB3	7:Al:187:TRP:CE3	2.56	0.41
7:Al:171:LYS:HD3	7:Al:173:MET:HE2	2.03	0.41
6:An:414:ALA:HB2	6:An:425:ILE:HG13	2.03	0.41
6:An:466:ASN:HB2	6:An:468:GLN:HG2	2.02	0.41
6:Ao:123:GLN:HE22	6:BK:91:ILE:HG23	1.86	0.41
6:Ap:379:SER:OG	6:Ap:432:ASP:OD1	2.34	0.41
7:Aq:52:GLY:HA2	7:Aq:190:SER:OG	2.21	0.41
7:Aq:193:ASP:O	7:Aq:242:TYR:OH	2.35	0.41
7:Ar:96:THR:HB	6:BJ:91:ILE:HA	2.03	0.41
7:Ar:138:LEU:HG	5:BA:273:ILE:HD11	2.03	0.41
7:Ar:221:ASN:HD22	7:Ar:224:HIS:CE1	2.39	0.41
7:As:58:HIS:ND1	7:As:186:SER:OG	2.50	0.41
7:At:189:LYS:H	7:At:189:LYS:HG2	1.70	0.41
7:At:217:GLU:HG3	7:At:224:HIS:ND1	2.36	0.41
6:Au:204:ASP:OD1	6:Au:205:ALA:N	2.53	0.41
6:Au:223:GLU:H	6:Au:223:GLU:CD	2.28	0.41
6:Au:303:ASN:HD22	6:Au:303:ASN:C	2.29	0.41
5:Av:12:TRP:CD1	5:Av:234:ALA:HB2	2.56	0.41
5:Av:150:TRP:HD1	5:Av:156:ILE:HG22	1.86	0.41
6:Aw:153:MET:HE1	6:Aw:226:GLU:HB2	2.03	0.41
6:Ay:133:LYS:HA	6:Ay:249:GLU:HB2	2.02	0.41
6:Ay:182:PHE:HE1	6:Ay:188:VAL:HG11	1.84	0.41
6:Ay:279:ARG:HA	6:Ay:279:ARG:HD3	1.91	0.41
6:Az:116:PRO:HA	6:Az:452:PRO:HD2	2.02	0.41
6:Az:145:HIS:HD2	6:Az:490:GLN:HG3	1.86	0.41
6:Az:264:ARG:NH1	6:Az:305:GLU:OE1	2.53	0.41
6:Az:344:ARG:NH2	6:Az:348:GLU:OE2	2.53	0.41
2:B2:538:ASP:OD1	2:B2:538:ASP:N	2.54	0.41
2:B4:654:LEU:HD23	2:B4:654:LEU:HA	1.92	0.41
2:B6:30:ALA:HB3	2:B6:359:TRP:CE2	2.56	0.41
2:B6:612:ASN:OD1	2:B6:612:ASN:N	2.53	0.41
2:B7:283:VAL:HG21	2:B7:323:ILE:HD13	2.03	0.41
5:BA:44:GLU:H	5:BA:44:GLU:HG2	1.66	0.41
5:BA:477:ILE:HD13	5:BA:483:HIS:NE2	2.36	0.41
5:BB:150:TRP:HD1	5:BB:156:ILE:HG22	1.84	0.41
5:BD:47:SER:O	5:BD:49:GLU:N	2.54	0.41
5:BD:432:ILE:HD12	5:BD:432:ILE:HA	1.94	0.41
5:BF:21:LYS:HE3	5:BF:21:LYS:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BG:182:VAL:HG22	5:BG:208:TYR:CD1	2.56	0.41
5:BG:267:LEU:HD11	5:BG:361:ASP:OD1	2.21	0.41
5:BG:408:ARG:HE	5:BG:450:ARG:HH21	1.69	0.41
5:BH:83:MET:HG3	5:BH:152:VAL:HG22	2.03	0.41
5:BH:136:HIS:HB3	5:BH:174:LEU:HD13	2.03	0.41
6:BI:154:PHE:O	6:BI:248:ASN:ND2	2.39	0.41
6:BI:278:LEU:HD12	6:BI:278:LEU:HA	1.90	0.41
6:BI:378:ALA:HB1	6:BI:382:VAL:HB	2.03	0.41
6:BK:191:GLN:HB2	6:BK:224:ILE:HG21	2.03	0.41
6:BK:445:ASP:OD1	6:BK:445:ASP:N	2.53	0.41
7:BL:68:ARG:HD2	7:BL:74:PHE:CE2	2.56	0.41
7:BL:270:MET:HA	7:BL:276:THR:HG23	2.02	0.41
11:BQ:10:ILE:HD11	11:BQ:35:TYR:HE1	1.86	0.41
11:BS:27:GLU:HB3	11:BS:56:TYR:CG	2.55	0.41
11:BU:27:GLU:HB3	11:BU:56:TYR:CG	2.56	0.41
3:Bc:3:VAL:N	3:Bh:97:ASN:O	2.52	0.41
3:Bc:129:ILE:HG21	3:Bc:132:LEU:HD13	2.02	0.41
3:Bd:140:LEU:HD12	3:Bd:140:LEU:HA	1.91	0.41
3:Be:104:PRO:HA	3:Be:107:TYR:CE2	2.55	0.41
3:Bf:136:ASN:O	3:Bf:136:ASN:ND2	2.54	0.41
3:Bh:98:GLU:OE1	3:Bh:98:GLU:N	2.40	0.41
3:Bi:48:LYS:HE3	3:Bi:48:LYS:HB3	1.87	0.41
3:Bo:15:PHE:HB2	3:Bo:17:ARG:NH2	2.35	0.41
2:Bp:390:GLN:OE1	2:Bp:407:CYS:HB3	2.20	0.41
2:Bp:505:LEU:HD12	2:Bp:505:LEU:HA	1.88	0.41
2:Bp:620:ARG:HB2	2:Bp:622:GLU:HG3	2.03	0.41
2:Br:2:THR:OG1	2:Br:3:LEU:N	2.53	0.41
2:Bs:441:PHE:CZ	2:Bs:443:ILE:HD11	2.56	0.41
2:Bs:652:ASP:OD2	2:Bv:458:TYR:OH	2.31	0.41
2:Bs:653:GLU:HA	2:Bv:16:GLN:HG3	2.03	0.41
2:Bs:654:LEU:HD22	2:Bt:605:ARG:HD3	2.01	0.41
2:Bt:614:THR:O	2:Bt:616:SER:N	2.52	0.41
2:Bv:365:ARG:HA	2:Bv:400:ARG:CZ	2.51	0.41
2:Bx:110:TYR:CZ	2:Bx:180:ALA:HB2	2.56	0.41
2:Bx:142:LYS:HE2	2:Bx:142:LYS:HB2	1.95	0.41
2:Bx:233:LYS:HE2	2:Bx:233:LYS:HB3	1.94	0.41
2:Bx:459:ASP:OD2	2:Bx:466:ARG:NH1	2.53	0.41
2:By:291:GLN:HE22	2:By:320:SER:HB2	1.84	0.41
2:By:593:GLN:HB2	2:By:604:TYR:OH	2.21	0.41
2:Bz:221:GLY:O	2:Bz:325:ALA:HA	2.21	0.41
2:Bz:450:ILE:HD13	2:Bz:522:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:12:LEU:H	1:n:12:LEU:HD12	1.86	0.41
3:o:57:LYS:HZ3	3:o:57:LYS:HB3	1.85	0.41
1:p:117:SER:HA	1:p:168:LYS:HA	2.02	0.41
1:p:144:ASN:O	1:p:144:ASN:ND2	2.54	0.41
8:q:111:PRO:HB2	8:q:197:TRP:HB3	2.02	0.41
8:q:144:HIS:ND1	9:v:150:ASP:OD2	2.54	0.41
8:q:198:MET:SD	8:r:135:GLU:HG2	2.60	0.41
8:q:223:LEU:O	8:q:224:PRO:C	2.64	0.41
8:t:232:SER:HB2	8:t:256:THR:OG1	2.20	0.41
8:u:63:GLU:HB3	8:u:64:ASP:H	1.69	0.41
8:u:168:MET:HG3	8:u:193:GLU:HB2	2.02	0.41
9:z:2:SER:OG	9:z:3:GLN:N	2.50	0.41
1:0:6:LYS:NZ	1:0:23:GLU:OE2	2.54	0.41
2:1:72:LEU:HD13	2:1:72:LEU:HA	1.94	0.41
2:1:310:TYR:CE2	2:1:312:ASP:HB3	2.56	0.41
2:2:523:ASN:OD1	2:2:539:LYS:N	2.51	0.41
2:2:573:PHE:CE2	8:r:237:VAL:HG21	2.54	0.41
2:3:493:GLY:HA2	2:AK:572:LEU:HD23	2.02	0.41
2:3:547:PRO:HD3	2:4:304:ILE:HB	2.03	0.41
2:3:602:TYR:CD1	2:3:632:ALA:HA	2.56	0.41
2:5:487:THR:O	2:5:555:ARG:NH1	2.54	0.41
3:9:24:GLU:CD	3:9:114:ARG:HH12	2.29	0.41
5:A1:118:PHE:CZ	5:A1:432:ILE:HD11	2.56	0.41
5:A1:508:GLU:HG2	5:BB:483:HIS:HB3	2.03	0.41
5:A3:47:SER:OG	5:A3:190:THR:O	2.30	0.41
5:A3:413:LYS:HD2	5:A3:413:LYS:HA	1.77	0.41
6:A4:106:LEU:HB3	6:A4:300:LEU:HD12	2.02	0.41
6:A5:309:TRP:HZ2	6:AW:226:GLU:HB3	1.85	0.41
6:A5:458:PRO:HB3	6:A5:473:PHE:CE2	2.56	0.41
7:A6:55:LYS:H	7:A1:162:TRP:CD1	2.39	0.41
7:A6:160:ASP:OD1	7:A6:160:ASP:N	2.43	0.41
6:A8:145:HIS:CG	6:A8:146:PRO:HD2	2.56	0.41
2:AD:100:GLU:HG2	2:AD:186:LYS:O	2.20	0.41
3:AE:97:ASN:HA	3:Bj:3:VAL:HG12	2.03	0.41
3:AF:51:VAL:N	3:AF:58:ILE:O	2.54	0.41
3:AF:132:LEU:HD13	3:AF:159:LEU:HB3	2.03	0.41
3:AJ:49:ILE:HD11	3:BX:150:ILE:HG22	2.03	0.41
3:AJ:51:VAL:HG11	3:Bm:15:PHE:CE1	2.56	0.41
2:AM:46:ASN:OD1	2:AM:47:GLU:N	2.54	0.41
2:AM:57:PRO:HB3	2:AM:65:PHE:HB3	2.02	0.41
2:AO:494:TYR:CZ	2:B5:569:LYS:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AP:66:MET:HG2	2:AP:468:VAL:HG21	2.03	0.41
10:AU:335:TYR:HA	10:AU:338:ARG:HD3	2.03	0.41
6:AV:75:ASN:OD1	6:AV:76:ALA:N	2.54	0.41
6:AV:93:PRO:HG2	6:AZ:123:GLN:CD	2.45	0.41
6:AV:394:SER:O	6:Ap:397:ALA:HA	2.20	0.41
6:AX:125:PHE:HB2	6:BK:98:MET:HA	2.03	0.41
6:AX:269:ALA:HB2	6:AX:470:VAL:HG23	2.03	0.41
6:AZ:93:PRO:HB2	6:Ad:123:GLN:HB3	2.03	0.41
7:Aa:54:ASN:HB2	7:Aa:219:TYR:CZ	2.56	0.41
7:Ab:302:PRO:HB3	5:Av:300:HIS:CE1	2.56	0.41
6:Ah:93:PRO:O	6:BI:123:GLN:NE2	2.54	0.41
6:Ah:129:ALA:O	6:Ah:143:ALA:N	2.42	0.41
6:Ah:153:MET:HB2	6:Ah:189:TYR:CE2	2.56	0.41
6:Ah:408:THR:HG21	6:Ah:427:GLN:HB3	2.03	0.41
6:Ai:372:GLU:OE1	6:Ai:372:GLU:N	2.41	0.41
7:Al:2:SER:OG	7:Al:3:GLY:N	2.51	0.41
6:Am:72:HIS:C	6:Am:74:TYR:H	2.28	0.41
6:Am:314:ALA:HA	6:Am:513:PHE:HB2	2.03	0.41
6:An:100:ARG:HG3	6:BK:127:LEU:HD22	2.03	0.41
6:Ao:108:ALA:O	6:Ao:109:PHE:HB2	2.21	0.41
7:Aq:45:TYR:OH	7:Aq:51:ASP:O	2.22	0.41
6:Aw:131:TYR:HB2	6:Aw:154:PHE:CZ	2.56	0.41
6:Aw:437:GLY:HA2	6:Aw:512:TYR:O	2.21	0.41
6:Ay:304:ARG:HA	6:Ay:304:ARG:HD2	1.90	0.41
6:Az:238:GLY:HA2	6:Az:242:SER:O	2.21	0.41
6:Az:364:ILE:HD11	6:Az:514:ARG:HG3	2.03	0.41
2:B2:85:ASP:H	2:B2:346:SER:HB3	1.86	0.41
2:B2:130:LYS:HG3	2:B2:144:ASN:HB3	2.03	0.41
2:B3:35:TRP:HB2	2:B3:230:LEU:HD12	2.02	0.41
2:B3:116:ILE:HD13	2:B3:171:ILE:HG23	2.03	0.41
2:B5:13:THR:HB	2:B5:14:THR:H	1.72	0.41
2:B6:44:VAL:HG11	2:B6:50:LEU:HB2	2.02	0.41
2:B6:195:LEU:HD12	2:B6:198:ILE:HD11	2.02	0.41
5:BA:236:VAL:HG13	5:BA:420:ASP:HB3	2.03	0.41
5:BA:367:GLN:HA	5:BA:377:LEU:HD11	2.03	0.41
5:BB:39:GLY:HA3	5:BB:250:ILE:HG12	2.02	0.41
7:BC:155:LEU:HD21	7:BE:117:ILE:HG12	2.01	0.41
5:BG:411:GLN:O	5:BG:415:GLU:HG3	2.21	0.41
5:BH:183:GLN:HB3	5:BH:207:ILE:HG23	2.03	0.41
5:BH:339:ARG:O	5:BH:342:LYS:HG3	2.21	0.41
6:BK:357:ILE:HG12	6:BK:434:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BL:92:ILE:HG13	7:BL:181:LEU:HB2	2.02	0.41
11:BV:40:LYS:HB3	11:BV:72:ASN:OD1	2.20	0.41
3:Ba:56:ARG:HG3	3:Bg:99:ILE:HG12	2.02	0.41
3:Bb:16:ALA:HB3	3:Be:75:ASN:HB3	2.03	0.41
3:Be:16:ALA:HB3	3:Bh:75:ASN:HB3	2.02	0.41
3:Be:23:VAL:HG22	3:Be:36:CYS:SG	2.61	0.41
3:Bf:16:ALA:HB3	3:Bi:75:ASN:HB3	2.03	0.41
3:Bg:57:LYS:HE2	3:Bn:147:ASN:HD21	1.85	0.41
2:Bq:169:ALA:HB2	2:Bq:184:LEU:HD11	2.03	0.41
2:Bq:211:GLN:NE2	2:Bq:329:ASN:OD1	2.51	0.41
2:Bq:484:VAL:HG13	2:Bq:485:SER:H	1.85	0.41
2:Br:375:ALA:HB1	2:Br:390:GLN:HG2	2.03	0.41
2:Bt:371:GLN:OE1	2:Bt:562:THR:OG1	2.38	0.41
2:Bu:89:ALA:HB3	2:Bu:194:LEU:HG	2.02	0.41
2:Bv:26:THR:HA	2:Bv:77:ASP:O	2.20	0.41
2:Bv:130:LYS:HE2	2:Bv:130:LYS:HB2	1.84	0.41
2:Bv:455:LYS:HB2	2:Bv:470:LEU:HD13	2.03	0.41
2:Bw:238:ILE:HG12	2:Bw:281:ILE:HD12	2.01	0.41
2:Bz:202:GLU:OE1	2:Bz:203:ALA:N	2.54	0.41
4:D:15:PRO:HG3	4:D:21:ARG:HB2	2.02	0.41
4:M:26:LYS:HG2	4:O:34:ALA:HB3	2.03	0.41
1:m:122:LEU:HD11	1:m:126:GLN:HE21	1.86	0.41
8:q:40:PRO:HG2	8:q:74:ARG:HG2	2.03	0.41
8:r:187:GLU:C	8:r:188:TRP:HD1	2.29	0.41
8:s:108:GLN:OE1	8:s:152:GLN:NE2	2.54	0.41
9:v:64:VAL:O	9:v:65:THR:OG1	2.32	0.41
9:y:42:ILE:HG22	9:y:68:TYR:HB3	2.03	0.41
9:z:118:ASP:HB3	9:z:123:GLU:HG3	2.02	0.41
1:0:207:LEU:O	1:0:210:ILE:HG13	2.22	0.40
2:1:23:SER:OG	2:1:24:THR:N	2.54	0.40
2:1:195:LEU:HD12	2:1:225:LEU:HA	2.02	0.40
2:2:464:VAL:HG12	2:AP:313:ASP:HB3	2.03	0.40
2:3:154:ALA:HB1	2:3:160:TYR:HB2	2.02	0.40
2:3:187:ILE:HD13	2:3:187:ILE:HA	1.93	0.40
2:5:252:LEU:HB3	2:5:336:GLY:HA2	2.02	0.40
3:9:43:ALA:HB2	3:AA:139:GLU:HA	2.03	0.40
5:A0:36:LEU:HB2	5:A0:38:ASP:OD2	2.21	0.40
5:A0:293:PRO:HB3	7:BC:47:GLU:O	2.21	0.40
5:A0:423:LYS:HB2	5:A0:437:TRP:CZ2	2.55	0.40
7:A6:105:PRO:HG3	6:Aw:234:GLU:HG3	2.02	0.40
6:A7:267:LYS:HB2	6:A8:247:TRP:CE3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A7:401:ALA:O	6:A8:420:LYS:NZ	2.33	0.40
6:A9:148:TYR:HA	6:A9:186:GLY:H	1.86	0.40
3:AH:99:ILE:O	3:Bd:120:ALA:HB2	2.22	0.40
2:AL:252:LEU:HB3	2:AL:336:GLY:HA2	2.03	0.40
2:AM:390:GLN:NE2	2:AM:408:SER:O	2.30	0.40
2:AO:213:ASN:O	2:AO:217:TYR:HD2	2.04	0.40
6:AV:267:LYS:O	6:AZ:249:GLU:HA	2.21	0.40
6:AV:270:TYR:HB3	6:AV:290:LEU:CD1	2.51	0.40
6:AV:450:TYR:HB2	6:AV:479:ILE:HB	2.02	0.40
6:AW:337:PRO:HA	6:AW:340:ILE:HG12	2.02	0.40
7:Ab:250:TYR:HA	7:Ab:293:LEU:HD13	2.03	0.40
6:Ah:121:THR:HA	6:Ah:259:ILE:O	2.21	0.40
6:Ah:311:ASN:ND2	6:Ah:433:TYR:OH	2.47	0.40
6:Ak:147:MET:O	6:Ak:185:THR:HA	2.21	0.40
7:Al:192:ILE:HG23	7:Al:197:MET:HE2	2.02	0.40
7:Al:202:VAL:O	4:V:27:ASN:HA	2.21	0.40
6:Ap:430:LYS:HD3	6:Ap:430:LYS:HA	1.84	0.40
7:Ar:53:LEU:HA	7:Ar:53:LEU:HD12	1.82	0.40
7:At:115:ALA:HB1	5:BH:81:ASN:OD1	2.21	0.40
7:At:246:TRP:NE1	7:At:297:LEU:HB2	2.36	0.40
5:Ax:37:ASP:OD1	5:Ax:37:ASP:N	2.53	0.40
5:Ax:161:ILE:HD12	5:Ax:173:GLU:HB3	2.03	0.40
6:Az:298:ILE:HG21	6:Az:456:LEU:HD21	2.02	0.40
6:Az:323:LEU:HD13	6:Az:329:ALA:HA	2.02	0.40
2:B2:451:ASP:OD2	2:B2:470:LEU:HB3	2.21	0.40
2:B4:101:TYR:CE1	2:B4:143:ILE:HG12	2.57	0.40
2:B4:131:ILE:HG23	2:B4:143:ILE:HG22	2.03	0.40
2:B5:654:LEU:HD13	2:B6:605:ARG:HD3	2.03	0.40
2:B6:490:SER:O	2:B6:496:ARG:NH1	2.40	0.40
2:B7:605:ARG:NH2	2:B7:606:VAL:O	2.54	0.40
5:BA:376:PRO:HB3	5:BA:399:ASP:HB2	2.03	0.40
5:BA:488:LYS:HE3	5:BA:488:LYS:HB2	1.87	0.40
7:BC:162:TRP:HE1	7:BE:54:ASN:HA	1.85	0.40
7:BC:296:GLU:O	7:BC:299:LEU:HD12	2.22	0.40
5:BH:429:LYS:HE3	5:BH:429:LYS:HB2	1.94	0.40
6:BI:270:TYR:HA	6:BM:67:GLU:HB2	2.03	0.40
6:BJ:276:GLN:HG3	6:BJ:279:ARG:HH22	1.85	0.40
7:BL:127:ARG:HG2	6:BM:442:ASN:HD21	1.85	0.40
11:BN:64:GLN:HG3	11:BN:67:GLU:HB2	2.03	0.40
11:BS:34:LEU:HD11	11:BS:65:ARG:HA	2.03	0.40
3:BY:3:VAL:N	3:Bd:97:ASN:O	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bc:104:PRO:HA	3:Bc:107:TYR:CZ	2.56	0.40
3:Bd:53:PHE:HE2	3:Be:5:ASP:HB2	1.85	0.40
3:Bg:48:LYS:HB2	3:Bj:133:TRP:CZ2	2.56	0.40
3:Bo:137:VAL:HG23	3:Bo:155:VAL:HG22	2.03	0.40
2:Bp:252:LEU:HG	2:Bp:263:SER:HB3	2.03	0.40
2:Bp:261:ARG:CZ	2:Bp:337:ILE:HD13	2.51	0.40
2:Bq:3:LEU:HD11	2:Bq:9:GLU:HB2	2.03	0.40
2:Bq:462:ASN:HB2	2:Bq:464:VAL:HG22	2.03	0.40
2:Br:44:VAL:HG11	2:Br:50:LEU:HB2	2.03	0.40
2:Bs:572:LEU:HD12	2:Bs:572:LEU:HA	1.78	0.40
2:Bt:474:ILE:H	2:Bt:474:ILE:HG12	1.68	0.40
2:Bu:536:TYR:HD1	2:Bu:536:TYR:HA	1.77	0.40
2:Bv:456:TYR:O	2:Bv:503:ILE:HG22	2.21	0.40
2:Bw:510:ARG:HG2	2:Bw:511:GLN:H	1.86	0.40
2:Bw:557:PHE:CE1	2:Bw:629:ILE:HD11	2.56	0.40
2:By:596:LYS:HG2	2:By:601:ILE:O	2.21	0.40
2:Bz:215:LYS:HB2	2:Bz:329:ASN:HD22	1.86	0.40
4:M:44:MET:HE3	4:N:44:MET:HE3	2.02	0.40
4:V:35:ASP:OD1	4:a:27:ASN:ND2	2.54	0.40
1:k:11:LYS:HB3	1:k:11:LYS:HE2	1.91	0.40
1:k:122:LEU:HA	1:l:3:THR:HG21	2.03	0.40
1:l:142:MET:HE3	1:l:142:MET:HB3	1.98	0.40
8:q:47:GLU:OE1	8:r:184:ARG:NH2	2.53	0.40
8:s:128:ASP:O	8:s:132:GLN:HG3	2.21	0.40
9:v:42:ILE:HG22	9:v:68:TYR:HB3	2.02	0.40
2:1:310:TYR:HD2	2:1:313:ASP:H	1.69	0.40
2:1:383:LEU:HD13	2:1:439:ASN:HB2	2.02	0.40
2:2:644:ALA:O	2:2:645:THR:OG1	2.38	0.40
2:3:193:ILE:HD12	2:3:193:ILE:HA	1.91	0.40
2:4:252:LEU:HA	2:4:253:PRO:HD3	1.96	0.40
2:5:91:ASN:ND2	2:5:225:LEU:O	2.53	0.40
2:5:430:ARG:HD3	2:5:520:GLU:O	2.20	0.40
2:5:450:ILE:HD13	2:5:522:ILE:HG12	2.03	0.40
3:9:45:ILE:HG23	3:9:65:THR:O	2.21	0.40
5:A2:282:ARG:O	5:A2:350:LEU:HB3	2.20	0.40
5:A3:31:ILE:H	5:A3:31:ILE:HD13	1.86	0.40
5:A3:477:ILE:H	5:A3:477:ILE:HG13	1.71	0.40
6:A7:450:TYR:HA	6:A7:479:ILE:HG12	2.02	0.40
6:A8:232:ILE:O	6:A8:236:GLN:HG2	2.21	0.40
6:A8:406:THR:OG1	6:A9:372:GLU:OE2	2.27	0.40
6:A8:416:VAL:HG12	6:A8:419:GLY:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A9:111:ILE:HD12	6:A9:377:ILE:HD11	2.03	0.40
3:AA:46:VAL:HG22	3:AA:64:ARG:HD2	2.02	0.40
8:AB:58:SER:O	8:AB:61:SER:HB2	2.20	0.40
8:AB:101:GLY:C	8:AB:103:THR:H	2.29	0.40
2:AK:33:PHE:HA	2:AK:61:THR:HG23	2.02	0.40
2:AK:57:PRO:HG3	2:AK:65:PHE:CG	2.56	0.40
2:AL:253:PRO:HA	2:AL:260:THR:HG22	2.03	0.40
2:AL:576:ASN:ND2	2:AL:576:ASN:O	2.54	0.40
2:AO:415:VAL:HG13	2:AO:416:GLY:H	1.85	0.40
2:AP:30:ALA:HB3	2:AP:359:TRP:CE2	2.56	0.40
10:AQ:304:TYR:CD1	6:Af:337:PRO:HD3	2.57	0.40
10:AR:332:SER:HB2	10:AR:338:ARG:HH22	1.87	0.40
6:AV:273:GLU:OE2	6:BJ:474:LYS:HD3	2.20	0.40
6:AV:355:PHE:CE2	6:AV:359:LYS:HD2	2.56	0.40
6:AW:106:LEU:HD23	6:AW:300:LEU:HD23	2.02	0.40
6:AX:494:SER:HA	11:BQ:37:ASP:CG	2.45	0.40
7:AY:165:SER:O	7:AY:168:GLU:HG3	2.21	0.40
7:Aa:60:PHE:CE2	7:Aa:170:LEU:HD21	2.56	0.40
7:Ab:95:ILE:H	7:Ab:95:ILE:HG13	1.50	0.40
7:Ab:162:TRP:CD1	7:Ar:55:LYS:HD2	2.56	0.40
6:Ad:112:CYS:HA	6:Ad:446:ALA:HB1	2.03	0.40
6:Ae:160:ALA:HB2	6:Ae:232:ILE:HG21	2.04	0.40
6:Ae:351:LYS:HB3	6:Ay:398:GLN:OE1	2.22	0.40
6:Ae:387:ALA:HB2	6:Ae:404:PHE:HB2	2.03	0.40
6:Af:265:GLN:HB3	6:Aj:247:TRP:CZ3	2.56	0.40
6:Ak:318:LYS:NZ	6:Ak:356:GLN:OE1	2.34	0.40
7:Al:12:LEU:HD12	7:Al:242:TYR:CD2	2.51	0.40
7:Al:80:ASN:H	7:Al:221:ASN:HD21	1.70	0.40
7:Aq:53:LEU:HD21	7:Aq:82:PHE:CD2	2.56	0.40
7:Aq:307:LEU:HD23	7:Aq:307:LEU:HA	1.88	0.40
6:Au:74:TYR:HD1	6:Ay:500:MET:HE1	1.87	0.40
6:Au:131:TYR:HB2	6:Au:154:PHE:CZ	2.56	0.40
5:Ax:115:LYS:HE2	5:Ax:115:LYS:HB3	1.82	0.40
5:Ax:477:ILE:HA	5:Ax:481:ILE:HG23	2.02	0.40
6:Ay:207:LYS:O	6:Ay:211:GLU:HG2	2.21	0.40
6:Az:495:ARG:HE	6:Az:495:ARG:HB3	1.77	0.40
2:B1:313:ASP:HB3	2:Bz:464:VAL:HG12	2.03	0.40
2:B2:464:VAL:HG12	2:B3:313:ASP:HB3	2.04	0.40
2:B3:10:LEU:HD23	2:Bz:640:LEU:HB2	2.03	0.40
2:B3:110:TYR:CG	2:B3:177:GLY:HA3	2.56	0.40
2:B3:253:PRO:HG2	2:B3:255:TYR:HE1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:413:THR:C	2:B3:417:ILE:HD11	2.46	0.40
2:B3:477:LEU:HD13	2:B3:499:ILE:HD13	2.03	0.40
2:B4:596:LYS:HG3	2:B4:601:ILE:O	2.21	0.40
2:B5:69:MET:O	2:B5:73:GLN:HG2	2.21	0.40
5:BA:401:LEU:HD23	5:BA:401:LEU:HA	1.83	0.40
5:BB:86:TYR:C	5:BB:88:VAL:H	2.29	0.40
5:BB:267:LEU:HD12	5:BB:365:PHE:CD2	2.57	0.40
5:BB:328:MET:HE1	5:BB:334:TYR:CZ	2.55	0.40
5:BF:41:ARG:HE	5:BF:66:GLU:CD	2.30	0.40
5:BF:423:LYS:HG3	5:BF:437:TRP:CD1	2.56	0.40
6:BJ:304:ARG:NH2	6:BJ:308:ASP:OD1	2.54	0.40
6:BK:242:SER:HB2	6:BK:245:ASN:HD21	1.86	0.40
11:BO:62:GLU:HG2	11:BS:4:THR:HG21	2.03	0.40
11:BT:72:ASN:OD1	11:BT:73:GLU:N	2.54	0.40
3:BZ:25:ILE:HG23	3:BZ:111:ALA:HB2	2.02	0.40
3:BZ:83:GLN:HA	3:BZ:86:VAL:HG22	2.02	0.40
3:Ba:46:VAL:HG22	3:Ba:64:ARG:HA	2.04	0.40
3:Bb:48:LYS:HE3	3:Bb:48:LYS:HB3	1.84	0.40
3:Bc:128:GLU:HB3	3:Bc:130:LYS:HE2	2.04	0.40
3:Be:2:PHE:HA	3:Bj:98:GLU:HA	2.02	0.40
3:Bh:17:ARG:HD2	3:Bh:118:ARG:HD3	2.03	0.40
3:Bh:131:GLY:O	3:Bh:159:LEU:HA	2.21	0.40
3:Bn:43:ALA:O	3:Bn:162:TRP:NE1	2.52	0.40
2:Bq:30:ALA:HB3	2:Bq:359:TRP:CE2	2.56	0.40
2:Br:57:PRO:HB2	2:Br:62:ALA:HA	2.02	0.40
2:Br:252:LEU:HD22	2:Br:335:SER:O	2.21	0.40
2:Br:269:PHE:CE2	2:Br:282:ILE:HG13	2.56	0.40
2:Bt:205:MET:O	2:Bt:211:GLN:NE2	2.34	0.40
2:Bt:413:THR:OG1	2:Bt:425:ASN:HB3	2.21	0.40
2:Bt:642:PHE:CZ	2:Bu:561:LYS:HG2	2.57	0.40
2:Bu:28:ALA:HB2	2:Bu:370:VAL:HG11	2.02	0.40
2:Bu:459:ASP:HB3	2:Bu:464:VAL:HG23	2.03	0.40
4:G:66:LYS:HE3	4:G:66:LYS:HB3	1.91	0.40
4:K:66:LYS:HD3	4:L:5:LEU:HD12	2.03	0.40
4:Z:5:LEU:HD23	4:Z:5:LEU:HA	1.94	0.40
4:e:16:ALA:H	4:e:19:GLN:HB2	1.86	0.40
1:k:176:TYR:CE1	1:k:179:GLU:HG3	2.56	0.40
1:m:151:TRP:CG	8:t:180:ASN:HB3	2.57	0.40
8:q:144:HIS:HB2	8:q:164:LYS:HB3	2.03	0.40
8:r:128:ASP:O	8:r:132:GLN:HG3	2.22	0.40
8:u:42:THR:O	8:u:76:ASN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:228:ALA:HA	1:0:231:TYR:CE2	2.57	0.40
2:2:91:ASN:HD21	2:2:195:LEU:HG	1.87	0.40
2:3:35:TRP:NE1	2:3:226:TYR:HD2	2.20	0.40
2:4:273:PRO:HB3	2:4:278:GLN:HB2	2.02	0.40
2:5:26:THR:HA	2:5:77:ASP:O	2.22	0.40
2:5:401:GLN:O	2:5:561:LYS:NZ	2.54	0.40
3:6:104:PRO:O	3:6:108:LYS:HB2	2.21	0.40
3:8:52:GLY:HA2	3:8:57:LYS:HA	2.02	0.40
3:8:131:GLY:O	3:8:159:LEU:HA	2.21	0.40
3:9:20:LEU:HD21	9:w:56:LEU:HD21	2.03	0.40
3:9:55:ASN:ND2	3:9:55:ASN:O	2.55	0.40
5:A1:328:MET:SD	5:A1:334:TYR:OH	2.67	0.40
5:A1:337:GLN:HE21	5:A1:344:VAL:HG11	1.87	0.40
5:A3:315:ASP:OD2	5:A3:318:THR:OG1	2.28	0.40
6:A4:117:MET:HB2	6:A4:451:ALA:HB1	2.04	0.40
6:A5:290:LEU:HD23	6:A5:290:LEU:HA	1.92	0.40
6:A7:123:GLN:O	6:AW:96:MET:HB2	2.22	0.40
6:A8:199:ASP:HB2	6:A8:211:GLU:HG2	2.02	0.40
6:A9:265:GLN:HG3	6:A9:266:LEU:N	2.36	0.40
8:AB:222:ASP:HA	2:AD:605:ARG:NH2	2.36	0.40
3:AE:113:VAL:HG13	3:AE:127:ILE:HG12	2.04	0.40
3:AE:140:LEU:HD11	3:AE:151:GLN:HB3	2.03	0.40
3:AI:90:SER:HA	3:AI:94:GLY:H	1.86	0.40
2:AK:378:CYS:SG	2:AK:454:TYR:OH	2.60	0.40
2:AL:384:GLU:HG2	2:AL:439:ASN:OD1	2.22	0.40
2:AN:237:GLU:HB3	2:AN:282:ILE:HB	2.04	0.40
2:AN:638:ILE:HD13	2:B2:568:SER:HB2	2.03	0.40
2:AO:355:LEU:HD23	2:AO:355:LEU:HA	1.92	0.40
2:AP:32:LYS:HD3	2:AP:32:LYS:H	1.87	0.40
10:AU:319:THR:HG23	10:AU:325:TRP:HB3	2.03	0.40
7:Aa:265:ARG:NH2	7:Ab:26:ASN:O	2.55	0.40
7:Ab:29:LEU:HD21	7:Ab:259:ASN:HB2	2.04	0.40
7:Ab:189:LYS:O	7:Ab:222:PRO:HG3	2.22	0.40
6:Ac:444:MET:HE2	6:Ac:444:MET:HB3	1.92	0.40
6:Ag:191:GLN:HB2	6:Ag:224:ILE:HG21	2.02	0.40
6:Ai:390:ASP:HB2	6:Ai:397:ALA:HB3	2.03	0.40
6:Aj:439:LYS:NZ	6:Aj:440:GLY:O	2.49	0.40
7:Al:24:ILE:HG22	7:Al:25:ILE:HG23	2.04	0.40
7:Al:160:ASP:OD1	7:Al:173:MET:HB2	2.21	0.40
6:Ao:376:ILE:O	6:Ao:423:VAL:HA	2.22	0.40
6:Ao:404:PHE:HZ	6:Ao:417:LEU:HG	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aq:6:PRO:HG2	7:Aq:248:LYS:HD3	2.04	0.40
7:Ar:65:ASP:HB3	7:Ar:68:ARG:HB2	2.03	0.40
7:At:112:LEU:HB2	7:At:116:GLY:H	1.87	0.40
6:Au:93:PRO:HG2	6:Ay:123:GLN:CD	2.45	0.40
6:Ay:114:VAL:HG23	6:Ay:115:GLN:H	1.86	0.40
6:Ay:449:TYR:OH	6:Ay:482:ASN:HB2	2.21	0.40
2:B1:10:LEU:HD22	2:Bx:642:PHE:HE1	1.86	0.40
2:B1:115:LYS:HD2	2:B1:115:LYS:HA	1.94	0.40
2:B2:57:PRO:HB3	2:B2:62:ALA:CA	2.46	0.40
2:B2:293:VAL:HG22	2:B2:294:VAL:H	1.85	0.40
2:B3:579:PHE:CE2	3:Bj:30:GLN:HB2	2.57	0.40
2:B4:612:ASN:OD1	2:B4:612:ASN:N	2.54	0.40
2:B4:614:THR:C	2:B4:616:SER:H	2.29	0.40
2:B4:654:LEU:HD13	2:B4:655:THR:HG22	2.03	0.40
2:B5:46:ASN:OD1	2:B5:47:GLU:N	2.51	0.40
2:B5:225:LEU:HD12	2:B5:324:PHE:HB2	2.03	0.40
2:B5:310:TYR:CE2	2:B5:312:ASP:HB2	2.56	0.40
2:B6:28:ALA:HB1	2:B6:362:PHE:CZ	2.57	0.40
2:B6:583:SER:HB3	3:Bm:26:SER:HB2	2.03	0.40
5:BA:113:LEU:HD21	5:BA:444:ILE:HG13	2.03	0.40
5:BB:208:TYR:HB3	5:BB:228:ILE:HG22	2.02	0.40
5:BH:413:LYS:HA	5:BH:413:LYS:HD2	1.82	0.40
5:BH:477:ILE:HD12	5:BH:483:HIS:CE1	2.56	0.40
7:BL:118:ASN:ND2	6:BM:118:ASN:O	2.50	0.40
6:BM:204:ASP:OD1	6:BM:205:ALA:N	2.53	0.40
3:Bb:48:LYS:HG3	3:Bb:59:ASN:HB3	2.03	0.40
3:Bj:91:ILE:HG22	3:Bj:107:TYR:HB3	2.04	0.40
3:Bk:30:GLN:O	3:Bk:30:GLN:NE2	2.41	0.40
2:Bq:193:ILE:HB	2:Bq:210:PHE:CZ	2.56	0.40
2:Br:90:LYS:HA	2:Br:90:LYS:HD3	1.87	0.40
2:Bs:137:ASP:OD1	2:Bs:137:ASP:N	2.55	0.40
2:Bs:413:THR:C	2:Bs:417:ILE:HD11	2.46	0.40
2:Bs:510:ARG:HG2	2:Bs:511:GLN:H	1.87	0.40
2:Bs:643:VAL:HG12	2:Bs:645:THR:HG23	2.03	0.40
2:Bt:108:SER:O	2:Bt:177:GLY:HA2	2.20	0.40
2:Bt:642:PHE:CZ	2:Bu:564:ILE:HD11	2.55	0.40
2:Bu:107:GLY:H	2:Bu:140:ILE:HG12	1.86	0.40
2:Bv:299:ARG:H	2:Bv:299:ARG:HD2	1.87	0.40
2:Bw:110:TYR:CE1	2:Bw:171:ILE:HG21	2.54	0.40
2:Bw:195:LEU:HD23	2:Bw:195:LEU:H	1.85	0.40
2:Bw:572:LEU:O	2:Bw:573:PHE:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:595:ILE:HG22	2:Bw:601:ILE:HG12	2.03	0.40
2:Bx:295:LEU:HD11	2:Bx:315:PHE:HE2	1.87	0.40
2:Bx:477:LEU:HD11	2:Bx:497:GLY:HA2	2.03	0.40
2:By:91:ASN:OD1	2:By:91:ASN:N	2.53	0.40
2:Bz:291:GLN:HE22	2:Bz:320:SER:HB2	1.85	0.40
4:F:27:ASN:HB3	4:f:38:TYR:CE2	2.57	0.40
4:W:41:GLU:O	4:W:45:ASN:ND2	2.54	0.40
1:m:221:VAL:HG13	8:t:22:SER:HB2	2.03	0.40
8:t:124:THR:HG22	8:t:126:TYR:H	1.85	0.40
9:v:83:SER:O	9:v:87:MET:HG2	2.21	0.40
2:1:306:ASP:HB3	8:AB:219:ASN:ND2	2.37	0.40
2:2:401:GLN:NE2	8:r:257:SER:OG	2.54	0.40
2:4:202:GLU:O	2:4:206:THR:OG1	2.36	0.40
2:4:642:PHE:CZ	2:AL:564:ILE:HD11	2.56	0.40
2:5:509:THR:O	2:5:514:ARG:NH1	2.54	0.40
3:6:2:PHE:HA	9:AC:53:PRO:HG3	2.04	0.40
3:6:16:ALA:O	3:7:151:GLN:HG2	2.21	0.40
5:A1:283:ARG:NH1	5:A1:334:TYR:OH	2.54	0.40
5:A2:126:MET:HG2	5:A2:426:LEU:HD11	2.03	0.40
5:A3:366:ARG:HG2	5:A3:380:ILE:HD12	2.03	0.40
7:A6:127:ARG:HA	7:A6:127:ARG:CZ	2.51	0.40
6:A7:106:LEU:HD21	6:A7:300:LEU:HG	2.03	0.40
6:A7:245:ASN:N	6:A7:245:ASN:OD1	2.54	0.40
6:A9:317:GLY:HA2	6:A9:514:ARG:NE	2.36	0.40
6:A9:459:LEU:HD22	7:As:98:MET:HG3	2.02	0.40
3:AA:103:LYS:O	3:AA:106:GLU:HG2	2.22	0.40
3:AA:130:LYS:HE2	3:AA:130:LYS:HB3	1.95	0.40
2:AD:450:ILE:HG22	2:AD:541:ALA:HB2	2.03	0.40
2:AD:528:THR:HB	2:AN:366:GLU:HB2	2.03	0.40
3:AH:98:GLU:H	3:AH:98:GLU:CD	2.30	0.40
2:AK:32:LYS:NZ	2:AK:347:ASN:O	2.54	0.40
2:AN:614:THR:C	2:AN:616:SER:H	2.30	0.40
2:AO:391:LYS:HZ3	2:AO:443:ILE:HD13	1.86	0.40
2:AP:404:LEU:HD22	2:AP:404:LEU:HA	1.91	0.40
10:AQ:351:VAL:O	10:AQ:363:HIS:HA	2.21	0.40
10:AU:348:TYR:HA	10:AU:349:PRO:HD3	1.89	0.40
6:AZ:131:TYR:CE1	6:AZ:141:LYS:HB2	2.45	0.40
6:AZ:169:SER:HB3	6:AZ:200:ALA:HB2	2.04	0.40
6:Ac:131:TYR:HA	6:Ac:250:MET:HA	2.03	0.40
6:Af:380:ARG:NH1	6:Af:427:GLN:O	2.51	0.40
6:Ag:377:ILE:HG23	6:Ag:435:THR:HB	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:385:VAL:HG21	6:Ag:521:ILE:HD12	2.02	0.40
6:Ah:304:ARG:NH2	6:Ah:308:ASP:OD1	2.55	0.40
6:Ai:131:TYR:HE1	6:Ai:141:LYS:HB2	1.86	0.40
6:Ai:180:HIS:NE2	6:Ai:209:ASP:OD1	2.46	0.40
6:Aj:169:SER:HB3	6:Aj:200:ALA:HB2	2.02	0.40
6:Ao:351:LYS:NZ	6:Ao:395:TYR:O	2.48	0.40
6:Ap:123:GLN:HB3	6:Ap:258:VAL:HG12	2.02	0.40
7:Ar:204:TYR:CD1	7:Ar:226:LEU:HD13	2.57	0.40
7:Ar:204:TYR:O	4:h:31:ILE:HB	2.20	0.40
7:At:125:CYS:O	7:At:127:ARG:N	2.54	0.40
5:Ax:111:LEU:HD12	5:Ax:111:LEU:HA	1.92	0.40
6:Ay:453:TYR:CD2	6:Ay:454:VAL:HG23	2.55	0.40
6:Az:163:PHE:HB2	6:Az:179:THR:HG23	2.03	0.40
6:Az:304:ARG:HA	6:Az:304:ARG:HD2	1.87	0.40
2:B1:143:ILE:HD12	2:B1:145:ILE:HD11	2.02	0.40
2:B1:446:THR:OG1	2:B1:554:ARG:NH2	2.53	0.40
2:B4:275:THR:OG1	2:B4:278:GLN:HG3	2.22	0.40
2:B6:621:ASN:OD1	2:B6:621:ASN:N	2.55	0.40
2:B7:577:ASN:HA	2:B7:581:ARG:HH21	1.87	0.40
5:BA:420:ASP:HB3	5:BA:421:PRO:HD3	2.03	0.40
5:BB:244:ASP:O	5:BB:245:CYS:C	2.64	0.40
7:BC:269:MET:HE2	7:BC:269:MET:HB3	1.82	0.40
5:BF:463:LEU:HD12	5:BF:463:LEU:HA	1.85	0.40
5:BH:99:ALA:HB2	5:BH:407:ILE:HD12	2.03	0.40
7:BL:204:TYR:O	4:O:31:ILE:HB	2.21	0.40
6:BM:263:SER:HA	6:BM:476:ARG:HA	2.02	0.40
6:BM:312:TYR:CZ	6:BM:507:LEU:HD13	2.56	0.40
11:BN:10:ILE:HD11	11:BN:35:TYR:CE1	2.57	0.40
3:BY:133:TRP:CH2	3:Bn:61:ALA:HA	2.57	0.40
3:BY:140:LEU:HD13	3:BY:153:PHE:HB3	2.03	0.40
3:BZ:144:TRP:CE2	3:Bk:54:MET:HG2	2.57	0.40
3:Bd:56:ARG:HB3	3:Bd:56:ARG:HH11	1.87	0.40
3:Bd:134:PRO:HA	3:Bd:157:LEU:HA	2.03	0.40
3:Bf:132:LEU:HD13	3:Bf:132:LEU:HA	1.88	0.40
3:Bh:124:THR:OG1	3:Bk:78:ALA:HA	2.21	0.40
3:Bk:17:ARG:C	3:Bn:151:GLN:HG3	2.47	0.40
3:Bn:23:VAL:HG22	3:Bn:36:CYS:SG	2.61	0.40
2:Bp:383:LEU:HD11	2:Bp:436:TYR:CD1	2.57	0.40
2:Bq:130:LYS:HE2	2:Bq:130:LYS:HB2	1.87	0.40
2:Bq:193:ILE:HD13	2:Bq:205:MET:HE3	2.02	0.40
2:Bu:240:SER:OG	2:Bu:243:ASP:OD1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bv:32:LYS:HD2	2:Bv:64:TYR:CE2	2.57	0.40
2:Bv:332:GLU:H	2:Bv:332:GLU:CD	2.28	0.40
2:Bv:592:LEU:HD12	2:Bv:592:LEU:HA	1.96	0.40
2:Bx:35:TRP:CG	2:Bx:36:GLY:H	2.38	0.40
2:Bx:302:LYS:O	2:Bx:307:SER:N	2.55	0.40
2:By:642:PHE:CZ	2:Bz:561:LYS:HG2	2.56	0.40
4:W:31:ILE:HG23	4:W:44:MET:SD	2.61	0.40
1:m:63:ARG:HD3	1:m:78:ASN:HD22	1.87	0.40
1:p:243:LYS:H	8:u:4:TYR:H	1.70	0.40
8:s:81:ASP:OD1	8:s:82:PHE:N	2.53	0.40
8:s:187:GLU:C	8:s:188:TRP:HD1	2.29	0.40
8:u:73:PRO:HD3	8:u:124:THR:HG23	2.03	0.40
9:z:10:ASN:OD1	9:z:10:ASN:N	2.50	0.40
2:1:614:THR:C	2:1:616:SER:H	2.30	0.40
2:3:374:ILE:HG23	2:3:471:ALA:O	2.21	0.40
2:3:609:ASP:HB2	2:3:611:THR:HG22	2.03	0.40
2:4:66:MET:HB2	2:4:66:MET:HE3	1.81	0.40
3:8:150:ILE:H	3:8:150:ILE:HD13	1.86	0.40
3:9:125:LYS:HD2	3:9:125:LYS:HA	1.89	0.40
5:A0:200:LYS:HB3	5:A0:200:LYS:HE2	1.87	0.40
5:A0:423:LYS:HB2	5:A0:437:TRP:CE2	2.57	0.40
6:A4:71:ASP:HB3	6:AW:230:THR:HB	2.04	0.40
6:A4:131:TYR:CE1	6:A4:141:LYS:HB2	2.57	0.40
6:A4:431:GLN:HG3	6:A4:432:ASP:H	1.87	0.40
6:A5:151:ASP:HB3	6:A5:154:PHE:HB2	2.02	0.40
3:AA:5:ASP:HB3	3:AA:8:ARG:HB2	2.03	0.40
8:AB:46:LYS:O	8:AB:51:MET:HE2	2.22	0.40
3:AF:131:GLY:O	3:AF:159:LEU:HA	2.22	0.40
3:AG:8:ARG:HD2	3:AH:34:PHE:CE1	2.57	0.40
3:AG:99:ILE:O	3:Ba:120:ALA:HB2	2.22	0.40
2:AL:346:SER:O	2:AL:350:VAL:HG23	2.21	0.40
2:AL:364:ASP:O	2:AL:367:SER:N	2.50	0.40
2:AL:422:ALA:O	2:AL:426:LEU:HG	2.21	0.40
2:AN:126:GLU:HB2	2:AN:150:ILE:HD11	2.03	0.40
2:AO:102:THR:HB	2:AO:183:THR:HB	2.02	0.40
2:AO:110:TYR:CG	2:AO:177:GLY:HA3	2.57	0.40
2:AO:299:ARG:H	2:AO:299:ARG:HD2	1.87	0.40
10:AQ:299:HIS:NE2	6:Af:328:LYS:O	2.54	0.40
6:AV:486:GLU:HA	6:AV:509:LYS:O	2.22	0.40
6:AW:131:TYR:HD2	6:AW:250:MET:HE3	1.87	0.40
6:AX:309:TRP:CZ3	6:Az:224:ILE:HD11	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AY:155:LEU:O	7:Aq:97:SER:HB2	2.21	0.40
6:AZ:347:GLY:O	6:AZ:351:LYS:HG2	2.20	0.40
7:Aa:84:VAL:HG13	7:Aa:184:VAL:HB	2.04	0.40
7:Aa:207:VAL:HG23	4:i:29:GLU:O	2.22	0.40
6:Ac:398:GLN:O	6:Ag:351:LYS:HD3	2.21	0.40
6:Ac:430:LYS:HG2	6:Ag:216:MET:HE1	2.02	0.40
6:Ad:284:MET:HE1	6:Ah:127:LEU:HD13	2.04	0.40
6:Ag:105:ASN:ND2	6:Ag:411:SER:HA	2.37	0.40
6:Ag:383:VAL:HG12	6:Ag:406:THR:HG22	2.04	0.40
6:Ah:69:GLY:O	6:Ah:86:GLY:HA3	2.21	0.40
6:Ak:176:ASP:OD1	6:Ak:177:ILE:N	2.51	0.40
7:Al:267:GLN:HG3	7:Al:279:GLY:H	1.87	0.40
6:Am:304:ARG:HD2	6:Am:304:ARG:HA	1.83	0.40
6:An:117:MET:HG3	6:An:451:ALA:HB1	2.02	0.40
6:Ap:117:MET:HE3	6:Ap:451:ALA:HB3	2.03	0.40
7:Ar:12:LEU:HD12	7:Ar:242:TYR:CD2	2.52	0.40
6:Aw:331:VAL:HG11	6:Aw:519:LYS:HD2	2.03	0.40
6:Aw:456:LEU:HD23	6:Aw:456:LEU:HA	1.88	0.40
5:Ax:197:LYS:HE2	5:Ax:197:LYS:HB3	1.98	0.40
6:Az:131:TYR:HB2	6:Az:154:PHE:CZ	2.57	0.40
2:B2:284:ARG:HG3	2:B2:289:ILE:HD13	2.03	0.40
2:B4:432:ALA:HB2	2:B4:440:ASN:HD22	1.87	0.40
2:B5:187:ILE:HD13	2:B5:187:ILE:HA	1.97	0.40
2:B5:269:PHE:CZ	2:B5:292:SER:HB2	2.56	0.40
2:B6:23:SER:O	2:B6:76:ASN:HB2	2.22	0.40
2:B6:66:MET:HG2	2:B6:468:VAL:HG11	2.04	0.40
2:B6:557:PHE:HB3	2:B6:561:LYS:NZ	2.37	0.40
2:B7:153:LYS:HB3	2:B7:167:TRP:HH2	1.87	0.40
7:BC:53:LEU:HD12	7:BC:53:LEU:HA	1.90	0.40
5:BF:182:VAL:HG22	5:BF:208:TYR:CD1	2.57	0.40
5:BF:320:LYS:HE3	5:BF:320:LYS:HB2	1.82	0.40
6:BJ:159:ALA:HB3	6:BJ:228:MET:HE1	2.03	0.40
6:BK:131:TYR:HB3	6:BK:250:MET:HE2	2.03	0.40
3:BY:34:PHE:CE2	3:Bn:8:ARG:HD2	2.57	0.40
3:BY:149:GLU:HB3	3:Bn:18:PRO:HG3	2.02	0.40
3:BZ:89:GLN:HE21	3:BZ:89:GLN:HB2	1.74	0.40
3:Ba:1:MET:HE2	3:Ba:1:MET:HB3	1.85	0.40
3:Bb:83:GLN:HA	3:Bb:86:VAL:HG22	2.03	0.40
3:Bc:114:ARG:HB3	3:Bc:123:VAL:HG13	2.03	0.40
3:Be:9:ALA:O	3:Bh:35:GLN:NE2	2.55	0.40
3:Bf:18:PRO:HA	3:Bi:151:GLN:HE21	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bl:55:ASN:HB3	3:Bl:56:ARG:H	1.76	0.40
3:Bo:40:ALA:H	3:Bo:69:TRP:HE1	1.69	0.40
2:Bq:456:TYR:O	2:Bq:503:ILE:HG12	2.22	0.40
2:Bs:34:GLN:O	2:Bs:82:ARG:NH2	2.55	0.40
2:Bs:100:GLU:HG2	2:Bs:186:LYS:O	2.22	0.40
2:Bs:159:GLU:O	2:Bs:162:THR:N	2.36	0.40
2:Bt:482:ASP:HB2	2:Bt:487:THR:HG22	2.03	0.40
2:Bu:211:GLN:HB3	2:Bu:329:ASN:ND2	2.37	0.40
2:Bv:28:ALA:HB1	2:Bv:362:PHE:CE2	2.56	0.40
2:Bv:642:PHE:HE1	2:By:10:LEU:HD22	1.87	0.40
2:Bx:554:ARG:HD3	2:Bx:554:ARG:HA	1.78	0.40
2:By:74:TYR:CD1	2:By:476:GLY:HA3	2.57	0.40
2:By:209:ASP:OD1	2:By:209:ASP:N	2.48	0.40
2:Bz:526:THR:HG22	2:Bz:534:VAL:O	2.22	0.40
4:C:44:MET:HE3	4:H:44:MET:HE3	2.03	0.40
4:Y:44:MET:HE1	4:d:44:MET:HG2	2.03	0.40
1:k:15:ARG:HD2	1:k:15:ARG:N	2.37	0.40
1:k:99:ALA:HB3	1:k:111:GLN:HG3	2.04	0.40
8:r:108:GLN:HE22	8:r:199:TYR:HB3	1.86	0.40
8:u:243:ASP:OD1	8:u:243:ASP:N	2.51	0.40
9:v:126:MET:HE3	9:v:166:VAL:HG13	2.04	0.40
9:z:40:PRO:HG3	9:z:130:PHE:HE2	1.87	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	0	242/256 (94%)	210 (87%)	31 (13%)	1 (0%)	30	62
1	k	242/256 (94%)	206 (85%)	35 (14%)	1 (0%)	30	62
1	l	242/256 (94%)	205 (85%)	35 (14%)	2 (1%)	16	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	m	242/256 (94%)	213 (88%)	28 (12%)	1 (0%)	30	62
1	n	242/256 (94%)	210 (87%)	31 (13%)	1 (0%)	30	62
1	p	242/256 (94%)	211 (87%)	30 (12%)	1 (0%)	30	62
2	1	651/659 (99%)	586 (90%)	62 (10%)	3 (0%)	24	57
2	2	651/659 (99%)	590 (91%)	58 (9%)	3 (0%)	24	57
2	3	651/659 (99%)	584 (90%)	64 (10%)	3 (0%)	24	57
2	4	651/659 (99%)	584 (90%)	65 (10%)	2 (0%)	36	67
2	5	651/659 (99%)	588 (90%)	61 (9%)	2 (0%)	36	67
2	AD	651/659 (99%)	589 (90%)	60 (9%)	2 (0%)	36	67
2	AK	653/659 (99%)	586 (90%)	63 (10%)	4 (1%)	21	54
2	AL	653/659 (99%)	592 (91%)	58 (9%)	3 (0%)	24	57
2	AM	653/659 (99%)	584 (89%)	67 (10%)	2 (0%)	36	67
2	AN	653/659 (99%)	586 (90%)	62 (10%)	5 (1%)	16	48
2	AO	653/659 (99%)	596 (91%)	55 (8%)	2 (0%)	36	67
2	AP	653/659 (99%)	585 (90%)	64 (10%)	4 (1%)	21	54
2	B1	653/659 (99%)	590 (90%)	60 (9%)	3 (0%)	24	57
2	B2	653/659 (99%)	594 (91%)	55 (8%)	4 (1%)	21	54
2	B3	653/659 (99%)	592 (91%)	58 (9%)	3 (0%)	24	57
2	B4	653/659 (99%)	586 (90%)	65 (10%)	2 (0%)	36	67
2	B5	653/659 (99%)	595 (91%)	54 (8%)	4 (1%)	21	54
2	B6	653/659 (99%)	579 (89%)	72 (11%)	2 (0%)	36	67
2	B7	653/659 (99%)	583 (89%)	67 (10%)	3 (0%)	24	57
2	Bp	653/659 (99%)	587 (90%)	63 (10%)	3 (0%)	24	57
2	Bq	653/659 (99%)	591 (90%)	59 (9%)	3 (0%)	24	57
2	Br	653/659 (99%)	588 (90%)	61 (9%)	4 (1%)	21	54
2	Bs	653/659 (99%)	585 (90%)	66 (10%)	2 (0%)	36	67
2	Bt	653/659 (99%)	585 (90%)	65 (10%)	3 (0%)	24	57
2	Bu	653/659 (99%)	592 (91%)	59 (9%)	2 (0%)	36	67
2	Bv	653/659 (99%)	589 (90%)	63 (10%)	1 (0%)	43	73
2	Bw	653/659 (99%)	585 (90%)	66 (10%)	2 (0%)	36	67
2	Bx	653/659 (99%)	591 (90%)	61 (9%)	1 (0%)	43	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	By	653/659 (99%)	587 (90%)	63 (10%)	3 (0%)	24	57
2	Bz	653/659 (99%)	581 (89%)	70 (11%)	2 (0%)	36	67
3	6	160/163 (98%)	138 (86%)	18 (11%)	4 (2%)	4	28
3	7	160/163 (98%)	141 (88%)	16 (10%)	3 (2%)	6	32
3	8	160/163 (98%)	139 (87%)	19 (12%)	2 (1%)	9	38
3	9	160/163 (98%)	140 (88%)	17 (11%)	3 (2%)	6	32
3	AA	160/163 (98%)	142 (89%)	13 (8%)	5 (3%)	3	25
3	AE	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10	40
3	AF	161/163 (99%)	142 (88%)	18 (11%)	1 (1%)	21	54
3	AG	161/163 (99%)	140 (87%)	20 (12%)	1 (1%)	21	54
3	AH	161/163 (99%)	141 (88%)	19 (12%)	1 (1%)	21	54
3	AI	161/163 (99%)	141 (88%)	18 (11%)	2 (1%)	10	40
3	AJ	161/163 (99%)	141 (88%)	19 (12%)	1 (1%)	21	54
3	BX	161/163 (99%)	141 (88%)	17 (11%)	3 (2%)	6	32
3	BY	161/163 (99%)	141 (88%)	18 (11%)	2 (1%)	10	40
3	BZ	161/163 (99%)	141 (88%)	18 (11%)	2 (1%)	10	40
3	Ba	161/163 (99%)	140 (87%)	20 (12%)	1 (1%)	21	54
3	Bb	161/163 (99%)	141 (88%)	20 (12%)	0	100	100
3	Bc	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10	40
3	Bd	161/163 (99%)	143 (89%)	17 (11%)	1 (1%)	21	54
3	Be	161/163 (99%)	142 (88%)	18 (11%)	1 (1%)	21	54
3	Bf	161/163 (99%)	143 (89%)	18 (11%)	0	100	100
3	Bg	161/163 (99%)	138 (86%)	22 (14%)	1 (1%)	21	54
3	Bh	161/163 (99%)	137 (85%)	23 (14%)	1 (1%)	21	54
3	Bi	161/163 (99%)	141 (88%)	19 (12%)	1 (1%)	21	54
3	Bj	161/163 (99%)	142 (88%)	19 (12%)	0	100	100
3	Bk	161/163 (99%)	137 (85%)	24 (15%)	0	100	100
3	Bl	161/163 (99%)	133 (83%)	27 (17%)	1 (1%)	21	54
3	Bm	161/163 (99%)	142 (88%)	17 (11%)	2 (1%)	10	40
3	Bn	161/163 (99%)	140 (87%)	18 (11%)	3 (2%)	6	32
3	Bo	161/163 (99%)	135 (84%)	25 (16%)	1 (1%)	21	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	o	160/163 (98%)	143 (89%)	15 (9%)	2 (1%)	9	38
4	A	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	B	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	C	77/487 (16%)	77 (100%)	0	0	100	100
4	D	77/487 (16%)	77 (100%)	0	0	100	100
4	E	77/487 (16%)	77 (100%)	0	0	100	100
4	F	77/487 (16%)	77 (100%)	0	0	100	100
4	G	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	H	77/487 (16%)	77 (100%)	0	0	100	100
4	I	77/487 (16%)	77 (100%)	0	0	100	100
4	J	77/487 (16%)	77 (100%)	0	0	100	100
4	K	77/487 (16%)	77 (100%)	0	0	100	100
4	L	77/487 (16%)	77 (100%)	0	0	100	100
4	M	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	N	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	O	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	P	77/487 (16%)	77 (100%)	0	0	100	100
4	Q	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	R	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	S	77/487 (16%)	74 (96%)	3 (4%)	0	100	100
4	T	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	U	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	V	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	W	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	X	77/487 (16%)	77 (100%)	0	0	100	100
4	Y	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	Z	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	a	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	b	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	c	77/487 (16%)	77 (100%)	0	0	100	100
4	d	77/487 (16%)	76 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	e	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	f	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	g	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
4	h	77/487 (16%)	75 (97%)	2 (3%)	0	100	100
4	i	77/487 (16%)	77 (100%)	0	0	100	100
4	j	77/487 (16%)	76 (99%)	1 (1%)	0	100	100
5	A0	505/524 (96%)	444 (88%)	54 (11%)	7 (1%)	9	37
5	A1	505/524 (96%)	459 (91%)	40 (8%)	6 (1%)	10	40
5	A2	504/524 (96%)	454 (90%)	43 (8%)	7 (1%)	9	37
5	A3	504/524 (96%)	440 (87%)	56 (11%)	8 (2%)	7	35
5	Av	504/524 (96%)	455 (90%)	44 (9%)	5 (1%)	12	43
5	Ax	504/524 (96%)	461 (92%)	40 (8%)	3 (1%)	21	54
5	BA	496/524 (95%)	445 (90%)	45 (9%)	6 (1%)	10	40
5	BB	484/524 (92%)	445 (92%)	38 (8%)	1 (0%)	43	73
5	BD	504/524 (96%)	459 (91%)	42 (8%)	3 (1%)	21	54
5	BF	504/524 (96%)	463 (92%)	39 (8%)	2 (0%)	30	62
5	BG	493/524 (94%)	447 (91%)	44 (9%)	2 (0%)	30	62
5	BH	504/524 (96%)	467 (93%)	34 (7%)	3 (1%)	21	54
6	A4	454/521 (87%)	413 (91%)	40 (9%)	1 (0%)	43	73
6	A5	454/521 (87%)	423 (93%)	31 (7%)	0	100	100
6	A7	454/521 (87%)	420 (92%)	34 (8%)	0	100	100
6	A8	438/521 (84%)	396 (90%)	41 (9%)	1 (0%)	43	73
6	A9	454/521 (87%)	413 (91%)	41 (9%)	0	100	100
6	AV	454/521 (87%)	413 (91%)	41 (9%)	0	100	100
6	AW	454/521 (87%)	419 (92%)	35 (8%)	0	100	100
6	AX	454/521 (87%)	419 (92%)	35 (8%)	0	100	100
6	AZ	454/521 (87%)	423 (93%)	30 (7%)	1 (0%)	43	73
6	Ac	454/521 (87%)	415 (91%)	39 (9%)	0	100	100
6	Ad	454/521 (87%)	424 (93%)	30 (7%)	0	100	100
6	Ae	454/521 (87%)	422 (93%)	32 (7%)	0	100	100
6	Af	454/521 (87%)	414 (91%)	40 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Ag	454/521 (87%)	419 (92%)	34 (8%)	1 (0%)	43	73
6	Ah	454/521 (87%)	420 (92%)	34 (8%)	0	100	100
6	Ai	454/521 (87%)	417 (92%)	37 (8%)	0	100	100
6	Aj	454/521 (87%)	415 (91%)	38 (8%)	1 (0%)	43	73
6	Ak	454/521 (87%)	413 (91%)	40 (9%)	1 (0%)	43	73
6	Am	454/521 (87%)	420 (92%)	33 (7%)	1 (0%)	43	73
6	An	438/521 (84%)	404 (92%)	34 (8%)	0	100	100
6	Ao	435/521 (84%)	397 (91%)	36 (8%)	2 (0%)	24	57
6	Ap	438/521 (84%)	406 (93%)	31 (7%)	1 (0%)	43	73
6	Au	454/521 (87%)	419 (92%)	35 (8%)	0	100	100
6	Aw	454/521 (87%)	424 (93%)	29 (6%)	1 (0%)	43	73
6	Ay	454/521 (87%)	421 (93%)	32 (7%)	1 (0%)	43	73
6	Az	454/521 (87%)	422 (93%)	32 (7%)	0	100	100
6	BI	454/521 (87%)	420 (92%)	34 (8%)	0	100	100
6	BJ	435/521 (84%)	398 (92%)	36 (8%)	1 (0%)	43	73
6	BK	454/521 (87%)	415 (91%)	39 (9%)	0	100	100
6	BM	454/521 (87%)	422 (93%)	31 (7%)	1 (0%)	43	73
7	A6	306/309 (99%)	286 (94%)	20 (6%)	0	100	100
7	AY	306/309 (99%)	276 (90%)	28 (9%)	2 (1%)	18	51
7	Aa	306/309 (99%)	269 (88%)	34 (11%)	3 (1%)	12	43
7	Ab	306/309 (99%)	284 (93%)	21 (7%)	1 (0%)	36	67
7	Al	306/309 (99%)	268 (88%)	36 (12%)	2 (1%)	18	51
7	Aq	306/309 (99%)	266 (87%)	37 (12%)	3 (1%)	12	43
7	Ar	286/309 (93%)	254 (89%)	31 (11%)	1 (0%)	36	67
7	As	306/309 (99%)	276 (90%)	29 (10%)	1 (0%)	36	67
7	At	294/309 (95%)	264 (90%)	27 (9%)	3 (1%)	12	43
7	BC	306/309 (99%)	273 (89%)	32 (10%)	1 (0%)	36	67
7	BE	306/309 (99%)	284 (93%)	20 (6%)	2 (1%)	18	51
7	BL	306/309 (99%)	267 (87%)	37 (12%)	2 (1%)	18	51
8	AB	270/272 (99%)	235 (87%)	31 (12%)	4 (2%)	8	36
8	q	270/272 (99%)	237 (88%)	28 (10%)	5 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	r	270/272 (99%)	236 (87%)	31 (12%)	3 (1%)	11	41
8	s	270/272 (99%)	240 (89%)	28 (10%)	2 (1%)	18	51
8	t	270/272 (99%)	238 (88%)	29 (11%)	3 (1%)	11	41
8	u	270/272 (99%)	237 (88%)	28 (10%)	5 (2%)	6	32
9	AC	173/176 (98%)	152 (88%)	19 (11%)	2 (1%)	10	40
9	v	173/176 (98%)	156 (90%)	15 (9%)	2 (1%)	10	40
9	w	173/176 (98%)	157 (91%)	15 (9%)	1 (1%)	21	54
9	x	173/176 (98%)	158 (91%)	14 (8%)	1 (1%)	21	54
9	y	173/176 (98%)	155 (90%)	16 (9%)	2 (1%)	10	40
9	z	173/176 (98%)	157 (91%)	14 (8%)	2 (1%)	10	40
10	AQ	94/376 (25%)	86 (92%)	8 (8%)	0	100	100
10	AR	94/376 (25%)	88 (94%)	5 (5%)	1 (1%)	11	41
10	AS	94/376 (25%)	85 (90%)	9 (10%)	0	100	100
10	AT	94/376 (25%)	81 (86%)	12 (13%)	1 (1%)	11	41
10	AU	94/376 (25%)	83 (88%)	11 (12%)	0	100	100
11	BN	77/80 (96%)	71 (92%)	5 (6%)	1 (1%)	9	38
11	BO	77/80 (96%)	72 (94%)	4 (5%)	1 (1%)	9	38
11	BP	77/80 (96%)	69 (90%)	7 (9%)	1 (1%)	9	38
11	BQ	77/80 (96%)	70 (91%)	6 (8%)	1 (1%)	9	38
11	BR	77/80 (96%)	69 (90%)	7 (9%)	1 (1%)	9	38
11	BS	77/80 (96%)	73 (95%)	3 (4%)	1 (1%)	9	38
11	BT	77/80 (96%)	67 (87%)	9 (12%)	1 (1%)	9	38
11	BU	77/80 (96%)	68 (88%)	9 (12%)	0	100	100
11	BV	77/80 (96%)	69 (90%)	7 (9%)	1 (1%)	9	38
11	BW	77/80 (96%)	69 (90%)	7 (9%)	1 (1%)	9	38
All	All	55709/74722 (75%)	50476 (91%)	4964 (9%)	269 (0%)	26	57

All (269) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	1	62	ALA
2	1	552	ASN
2	2	62	ALA

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Mol	Chain	Res	Type
2	4	552	ASN
2	5	62	ALA
2	5	552	ASN
3	6	6	VAL
3	6	11	GLU
3	7	6	VAL
3	7	11	GLU
3	8	6	VAL
3	8	11	GLU
3	9	6	VAL
3	9	11	GLU
5	A0	10	ALA
5	A0	217	CYS
5	A0	233	ALA
5	A2	45	VAL
5	A2	392	SER
5	A2	481	ILE
5	A3	224	ALA
5	A3	233	ALA
5	A3	384	GLN
5	A3	396	ILE
6	A8	90	GLN
3	AA	6	VAL
3	AA	11	GLU
8	AB	143	PRO
8	AB	224	PRO
8	AB	239	PRO
9	AC	28	SER
2	AD	552	ASN
3	AE	42	PRO
3	AG	43	ALA
3	AI	42	PRO
3	AJ	42	PRO
2	AK	121	VAL
2	AK	265	ALA
2	AK	552	ASN
2	AL	265	ALA
2	AM	265	ALA
2	AM	552	ASN
2	AN	121	VAL
2	AN	346	SER
2	AN	350	VAL

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Mol	Chain	Res	Type
2	AN	552	ASN
2	AO	265	ALA
2	AO	552	ASN
2	AP	121	VAL
7	AY	25	ILE
7	Aa	105	PRO
6	Aj	346	ALA
7	Al	193	ASP
6	Am	108	ALA
7	Aq	92	ILE
7	At	121	MET
5	Av	7	SER
5	Av	233	ALA
5	Av	294	ALA
5	Ax	374	ARG
2	B1	265	ALA
2	B1	552	ASN
2	B2	265	ALA
2	B3	552	ASN
2	B7	265	ALA
2	B7	552	ASN
5	BA	10	ALA
5	BF	317	SER
5	BF	374	ARG
5	BG	245	CYS
5	BG	374	ARG
5	BH	374	ARG
7	BL	193	ASP
11	BO	65	ARG
11	BP	65	ARG
11	BQ	65	ARG
11	BR	65	ARG
11	BS	65	ARG
11	BT	65	ARG
11	BV	65	ARG
3	BY	120	ALA
3	BZ	42	PRO
3	BZ	120	ALA
3	Bc	42	PRO
3	Be	42	PRO
3	Bh	42	PRO
3	Bl	42	PRO

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Mol	Chain	Res	Type
3	Bn	42	PRO
3	Bo	42	PRO
2	Bp	13	THR
2	Bp	552	ASN
2	Bq	552	ASN
2	Br	265	ALA
2	Br	552	ASN
2	Bs	265	ALA
2	Bs	552	ASN
2	Bt	552	ASN
2	Bu	552	ASN
2	Bx	552	ASN
2	By	265	ALA
2	By	552	ASN
3	o	6	VAL
3	o	11	GLU
8	q	62	GLN
8	q	143	PRO
8	q	224	PRO
8	q	239	PRO
8	r	62	GLN
8	r	156	ASP
8	r	239	PRO
8	s	239	PRO
8	t	62	GLN
8	t	156	ASP
8	t	239	PRO
8	u	62	GLN
8	u	73	PRO
8	u	156	ASP
8	u	224	PRO
8	u	239	PRO
9	v	28	SER
9	w	28	SER
9	y	28	SER
9	z	28	SER
2	2	552	ASN
2	3	552	ASN
5	A0	8	LEU
5	A0	294	ALA
5	A1	45	VAL
5	A1	141	ARG

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Mol	Chain	Res	Type
5	A1	228	ILE
5	A2	294	ALA
5	A2	394	THR
5	A3	45	VAL
2	AL	552	ASN
2	AP	552	ASN
7	Aa	138	LEU
7	Ab	22	ALA
6	Ag	346	ALA
6	Ak	391	THR
6	Ao	108	ALA
7	Aq	193	ASP
7	As	22	ALA
5	Av	10	ALA
5	Av	45	VAL
5	Ax	211	ALA
5	Ax	220	ARG
2	B2	552	ASN
2	B3	265	ALA
2	B4	552	ASN
2	B5	265	ALA
2	B5	552	ASN
2	B6	552	ASN
5	BA	8	LEU
5	BA	45	VAL
5	BA	232	LYS
5	BD	154	SER
5	BD	211	ALA
5	BD	398	ARG
7	BE	125	CYS
5	BH	66	GLU
11	BN	65	ARG
11	BW	65	ARG
3	BX	55	ASN
3	BY	55	ASN
2	Bp	482	ASP
2	Br	121	VAL
2	Br	482	ASP
2	Bv	552	ASN
2	Bw	552	ASN
2	Bw	645	THR
2	By	121	VAL

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Mol	Chain	Res	Type
2	Bz	552	ASN
5	A3	217	CYS
6	A4	254	ILE
3	AE	55	ASN
3	AH	125	LYS
2	AL	13	THR
2	AN	347	ASN
2	AP	265	ALA
7	AY	22	ALA
7	Aa	22	ALA
2	B2	163	LEU
2	B3	654	LEU
2	B6	265	ALA
5	BA	51	ALA
5	BB	214	SER
7	BE	22	ALA
3	BX	43	ALA
3	BX	125	LYS
3	Bc	125	LYS
3	Bd	55	ASN
3	Bg	55	ASN
3	Bn	55	ASN
2	Bt	645	THR
1	l	188	ASN
8	s	156	ASP
3	6	43	ALA
3	6	125	LYS
3	9	43	ALA
5	A0	45	VAL
5	A1	104	ASP
3	AA	14	ASP
3	AA	125	LYS
8	AB	156	ASP
3	AI	125	LYS
6	Ao	91	ILE
7	Ar	22	ALA
7	At	129	TYR
6	Ay	121	THR
2	B4	645	THR
2	B7	572	LEU
5	BA	294	ALA
7	BC	22	ALA

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Mol	Chain	Res	Type
5	BH	61	ILE
7	BL	22	ALA
3	Ba	125	LYS
8	q	156	ASP
5	A0	328	MET
5	A1	67	PRO
5	A1	207	ILE
5	A2	216	ALA
5	A3	294	ALA
3	AA	43	ALA
2	AK	13	THR
6	AZ	245	ASN
7	At	22	ALA
2	B1	645	THR
3	Bm	55	ASN
2	Bq	121	VAL
2	Bq	265	ALA
1	n	236	VAL
1	p	236	VAL
2	3	62	ALA
3	7	43	ALA
5	A2	328	MET
5	A3	328	MET
3	AF	55	ASN
2	AP	13	THR
7	Al	22	ALA
6	Ap	346	ALA
7	Aq	22	ALA
6	Aw	246	PRO
2	B2	39	PHE
2	B5	13	THR
6	BJ	91	ILE
6	BM	345	TRP
3	Bi	55	ASN
3	Bn	125	LYS
2	Bt	350	VAL
2	Bu	39	PHE
2	Bz	163	LEU
1	l	236	VAL
2	3	20	VAL
10	AT	375	TYR
1	m	236	VAL

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Mol	Chain	Res	Type
10	AR	375	TYR
1	k	236	VAL
9	x	173	ILE
1	0	236	VAL
2	4	20	VAL
9	AC	173	ILE
2	1	20	VAL
2	2	20	VAL
2	AD	20	VAL
9	v	173	ILE
2	B5	121	VAL
3	Bm	42	PRO
9	y	173	ILE
9	z	173	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	0	217/229 (95%)	191 (88%)	26 (12%)	5	21
1	k	217/229 (95%)	189 (87%)	28 (13%)	4	20
1	l	217/229 (95%)	193 (89%)	24 (11%)	6	24
1	m	217/229 (95%)	196 (90%)	21 (10%)	8	29
1	n	217/229 (95%)	196 (90%)	21 (10%)	8	29
1	p	217/229 (95%)	195 (90%)	22 (10%)	7	27
2	1	532/536 (99%)	486 (91%)	46 (9%)	10	33
2	2	532/536 (99%)	495 (93%)	37 (7%)	14	40
2	3	532/536 (99%)	494 (93%)	38 (7%)	13	39
2	4	532/536 (99%)	493 (93%)	39 (7%)	13	39
2	5	532/536 (99%)	496 (93%)	36 (7%)	14	40
2	AD	532/536 (99%)	492 (92%)	40 (8%)	12	38
2	AK	534/536 (100%)	478 (90%)	56 (10%)	6	26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AL	534/536 (100%)	489 (92%)	45 (8%)	10	34
2	AM	534/536 (100%)	487 (91%)	47 (9%)	9	33
2	AN	534/536 (100%)	494 (92%)	40 (8%)	12	38
2	AO	534/536 (100%)	487 (91%)	47 (9%)	9	33
2	AP	534/536 (100%)	479 (90%)	55 (10%)	7	27
2	B1	534/536 (100%)	482 (90%)	52 (10%)	8	29
2	B2	534/536 (100%)	491 (92%)	43 (8%)	11	35
2	B3	534/536 (100%)	484 (91%)	50 (9%)	8	30
2	B4	534/536 (100%)	489 (92%)	45 (8%)	10	34
2	B5	534/536 (100%)	490 (92%)	44 (8%)	10	35
2	B6	534/536 (100%)	486 (91%)	48 (9%)	9	32
2	B7	534/536 (100%)	487 (91%)	47 (9%)	9	33
2	Bp	534/536 (100%)	498 (93%)	36 (7%)	15	41
2	Bq	534/536 (100%)	485 (91%)	49 (9%)	8	31
2	Br	534/536 (100%)	484 (91%)	50 (9%)	8	30
2	Bs	534/536 (100%)	494 (92%)	40 (8%)	12	38
2	Bt	534/536 (100%)	482 (90%)	52 (10%)	8	29
2	Bu	534/536 (100%)	481 (90%)	53 (10%)	7	28
2	Bv	534/536 (100%)	484 (91%)	50 (9%)	8	30
2	Bw	534/536 (100%)	478 (90%)	56 (10%)	6	26
2	Bx	534/536 (100%)	489 (92%)	45 (8%)	10	34
2	By	534/536 (100%)	484 (91%)	50 (9%)	8	30
2	Bz	534/536 (100%)	493 (92%)	41 (8%)	12	37
3	6	136/137 (99%)	120 (88%)	16 (12%)	5	22
3	7	136/137 (99%)	120 (88%)	16 (12%)	5	22
3	8	136/137 (99%)	119 (88%)	17 (12%)	4	21
3	9	136/137 (99%)	116 (85%)	20 (15%)	3	17
3	AA	136/137 (99%)	121 (89%)	15 (11%)	6	24
3	AE	137/137 (100%)	118 (86%)	19 (14%)	3	18
3	AF	137/137 (100%)	116 (85%)	21 (15%)	3	16
3	AG	137/137 (100%)	119 (87%)	18 (13%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AH	137/137 (100%)	118 (86%)	19 (14%)	3	18
3	AI	137/137 (100%)	123 (90%)	14 (10%)	7	27
3	AJ	137/137 (100%)	118 (86%)	19 (14%)	3	18
3	BX	137/137 (100%)	118 (86%)	19 (14%)	3	18
3	BY	137/137 (100%)	120 (88%)	17 (12%)	4	21
3	BZ	137/137 (100%)	117 (85%)	20 (15%)	3	17
3	Ba	137/137 (100%)	120 (88%)	17 (12%)	4	21
3	Bb	137/137 (100%)	122 (89%)	15 (11%)	6	25
3	Bc	137/137 (100%)	125 (91%)	12 (9%)	9	33
3	Bd	137/137 (100%)	120 (88%)	17 (12%)	4	21
3	Be	137/137 (100%)	121 (88%)	16 (12%)	5	22
3	Bf	137/137 (100%)	117 (85%)	20 (15%)	3	17
3	Bg	137/137 (100%)	117 (85%)	20 (15%)	3	17
3	Bh	137/137 (100%)	116 (85%)	21 (15%)	3	16
3	Bi	137/137 (100%)	122 (89%)	15 (11%)	6	25
3	Bj	137/137 (100%)	116 (85%)	21 (15%)	3	16
3	Bk	137/137 (100%)	117 (85%)	20 (15%)	3	17
3	Bl	137/137 (100%)	116 (85%)	21 (15%)	3	16
3	Bm	137/137 (100%)	120 (88%)	17 (12%)	4	21
3	Bn	137/137 (100%)	125 (91%)	12 (9%)	9	33
3	Bo	137/137 (100%)	120 (88%)	17 (12%)	4	21
3	o	136/137 (99%)	115 (85%)	21 (15%)	2	15
4	A	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	B	69/419 (16%)	69 (100%)	0	100	100
4	C	69/419 (16%)	69 (100%)	0	100	100
4	D	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	E	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	F	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	G	69/419 (16%)	69 (100%)	0	100	100
4	H	69/419 (16%)	69 (100%)	0	100	100
4	I	69/419 (16%)	69 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	J	69/419 (16%)	69 (100%)	0	100	100
4	K	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	L	69/419 (16%)	69 (100%)	0	100	100
4	M	69/419 (16%)	69 (100%)	0	100	100
4	N	69/419 (16%)	69 (100%)	0	100	100
4	O	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	P	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	Q	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	R	69/419 (16%)	69 (100%)	0	100	100
4	S	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	T	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	U	69/419 (16%)	69 (100%)	0	100	100
4	V	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	W	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	X	69/419 (16%)	66 (96%)	3 (4%)	26	50
4	Y	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	Z	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	a	69/419 (16%)	69 (100%)	0	100	100
4	b	69/419 (16%)	69 (100%)	0	100	100
4	c	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	d	69/419 (16%)	69 (100%)	0	100	100
4	e	69/419 (16%)	69 (100%)	0	100	100
4	f	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	g	69/419 (16%)	68 (99%)	1 (1%)	59	70
4	h	69/419 (16%)	67 (97%)	2 (3%)	37	58
4	i	69/419 (16%)	69 (100%)	0	100	100
4	j	69/419 (16%)	69 (100%)	0	100	100
5	A0	449/465 (97%)	400 (89%)	49 (11%)	6	25
5	A1	449/465 (97%)	392 (87%)	57 (13%)	4	21
5	A2	448/465 (96%)	398 (89%)	50 (11%)	6	24
5	A3	448/465 (96%)	390 (87%)	58 (13%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	Av	448/465 (96%)	388 (87%)	60 (13%)	4	19
5	Ax	448/465 (96%)	401 (90%)	47 (10%)	6	26
5	BA	441/465 (95%)	394 (89%)	47 (11%)	6	25
5	BB	435/465 (94%)	393 (90%)	42 (10%)	8	29
5	BD	448/465 (96%)	385 (86%)	63 (14%)	3	18
5	BF	448/465 (96%)	400 (89%)	48 (11%)	6	25
5	BG	436/465 (94%)	385 (88%)	51 (12%)	5	22
5	BH	438/465 (94%)	385 (88%)	53 (12%)	5	21
6	A4	345/400 (86%)	320 (93%)	25 (7%)	13	39
6	A5	345/400 (86%)	326 (94%)	19 (6%)	19	45
6	A7	345/400 (86%)	324 (94%)	21 (6%)	17	43
6	A8	335/400 (84%)	317 (95%)	18 (5%)	20	45
6	A9	345/400 (86%)	330 (96%)	15 (4%)	26	50
6	AV	345/400 (86%)	321 (93%)	24 (7%)	14	40
6	AW	345/400 (86%)	328 (95%)	17 (5%)	22	47
6	AX	345/400 (86%)	314 (91%)	31 (9%)	9	32
6	AZ	345/400 (86%)	312 (90%)	33 (10%)	8	29
6	Ac	345/400 (86%)	324 (94%)	21 (6%)	17	43
6	Ad	345/400 (86%)	323 (94%)	22 (6%)	16	42
6	Ae	345/400 (86%)	319 (92%)	26 (8%)	12	38
6	Af	345/400 (86%)	326 (94%)	19 (6%)	19	45
6	Ag	345/400 (86%)	330 (96%)	15 (4%)	26	50
6	Ah	345/400 (86%)	330 (96%)	15 (4%)	26	50
6	Ai	345/400 (86%)	330 (96%)	15 (4%)	26	50
6	Aj	345/400 (86%)	329 (95%)	16 (5%)	24	48
6	Ak	345/400 (86%)	331 (96%)	14 (4%)	27	51
6	Am	345/400 (86%)	327 (95%)	18 (5%)	21	46
6	An	335/400 (84%)	317 (95%)	18 (5%)	20	45
6	Ao	333/400 (83%)	312 (94%)	21 (6%)	16	42
6	Ap	335/400 (84%)	314 (94%)	21 (6%)	16	42
6	Au	345/400 (86%)	325 (94%)	20 (6%)	18	44

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Aw	345/400 (86%)	320 (93%)	25 (7%)	13	39
6	Ay	345/400 (86%)	316 (92%)	29 (8%)	10	34
6	Az	345/400 (86%)	322 (93%)	23 (7%)	15	41
6	BI	345/400 (86%)	326 (94%)	19 (6%)	19	45
6	BJ	333/400 (83%)	311 (93%)	22 (7%)	15	41
6	BK	345/400 (86%)	329 (95%)	16 (5%)	24	48
6	BM	345/400 (86%)	328 (95%)	17 (5%)	22	47
7	A6	259/260 (100%)	234 (90%)	25 (10%)	8	29
7	AY	258/260 (99%)	234 (91%)	24 (9%)	8	30
7	Aa	259/260 (100%)	235 (91%)	24 (9%)	8	30
7	Ab	259/260 (100%)	234 (90%)	25 (10%)	8	29
7	Al	258/260 (99%)	236 (92%)	22 (8%)	10	33
7	Aq	259/260 (100%)	234 (90%)	25 (10%)	8	29
7	Ar	247/260 (95%)	228 (92%)	19 (8%)	12	37
7	As	259/260 (100%)	233 (90%)	26 (10%)	7	28
7	At	251/260 (96%)	224 (89%)	27 (11%)	6	25
7	BC	259/260 (100%)	235 (91%)	24 (9%)	8	30
7	BE	259/260 (100%)	238 (92%)	21 (8%)	11	35
7	BL	259/260 (100%)	230 (89%)	29 (11%)	6	24
8	AB	250/250 (100%)	224 (90%)	26 (10%)	7	26
8	q	250/250 (100%)	230 (92%)	20 (8%)	11	36
8	r	250/250 (100%)	226 (90%)	24 (10%)	8	29
8	s	250/250 (100%)	222 (89%)	28 (11%)	6	24
8	t	250/250 (100%)	227 (91%)	23 (9%)	8	31
8	u	250/250 (100%)	229 (92%)	21 (8%)	10	34
9	AC	156/157 (99%)	144 (92%)	12 (8%)	12	37
9	v	156/157 (99%)	148 (95%)	8 (5%)	21	46
9	w	156/157 (99%)	147 (94%)	9 (6%)	18	44
9	x	156/157 (99%)	145 (93%)	11 (7%)	13	39
9	y	156/157 (99%)	144 (92%)	12 (8%)	12	37
9	z	156/157 (99%)	145 (93%)	11 (7%)	13	39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	AQ	87/319 (27%)	85 (98%)	2 (2%)	44	63
10	AR	87/319 (27%)	85 (98%)	2 (2%)	44	63
10	AS	87/319 (27%)	84 (97%)	3 (3%)	32	55
10	AT	87/319 (27%)	86 (99%)	1 (1%)	65	73
10	AU	87/319 (27%)	86 (99%)	1 (1%)	65	73
11	BN	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BO	67/68 (98%)	63 (94%)	4 (6%)	17	43
11	BP	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BQ	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BR	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BS	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BT	67/68 (98%)	63 (94%)	4 (6%)	17	43
11	BU	67/68 (98%)	65 (97%)	2 (3%)	36	57
11	BV	67/68 (98%)	64 (96%)	3 (4%)	24	48
11	BW	67/68 (98%)	64 (96%)	3 (4%)	24	48
All	All	46157/62065 (74%)	42302 (92%)	3855 (8%)	12	34

All (3855) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	8	LEU
1	0	11	LYS
1	0	15	ARG
1	0	27	LEU
1	0	51	ILE
1	0	57	GLU
1	0	75	ASP
1	0	78	ASN
1	0	90	LEU
1	0	94	GLU
1	0	108	MET
1	0	110	VAL
1	0	114	VAL
1	0	115	THR
1	0	127	VAL
1	0	128	ASN
1	0	146	LEU

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Mol	Chain	Res	Type
1	0	166	ILE
1	0	175	ILE
1	0	182	ASN
1	0	213	ILE
1	0	214	ASN
1	0	230	GLU
1	0	233	GLU
1	0	238	VAL
1	0	245	PHE
2	1	4	LEU
2	1	14	THR
2	1	18	THR
2	1	70	ASN
2	1	72	LEU
2	1	88	THR
2	1	133	GLU
2	1	166	ASN
2	1	178	LEU
2	1	186	LYS
2	1	188	ILE
2	1	193	ILE
2	1	202	GLU
2	1	206	THR
2	1	246	LYS
2	1	255	TYR
2	1	284	ARG
2	1	286	ASN
2	1	303	ASP
2	1	317	LYS
2	1	339	THR
2	1	344	LEU
2	1	355	LEU
2	1	371	GLN
2	1	372	LEU
2	1	385	THR
2	1	404	LEU
2	1	406	LEU
2	1	417	ILE
2	1	430	ARG
2	1	450	ILE
2	1	464	VAL
2	1	477	LEU

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Mol	Chain	Res	Type
2	1	494	TYR
2	1	501	ASN
2	1	508	GLU
2	1	523	ASN
2	1	528	THR
2	1	535	LEU
2	1	544	VAL
2	1	560	LEU
2	1	564	ILE
2	1	572	LEU
2	1	588	THR
2	1	611	THR
2	1	633	ARG
2	2	11	LYS
2	2	14	THR
2	2	18	THR
2	2	49	ASP
2	2	58	THR
2	2	66	MET
2	2	84	VAL
2	2	87	ASP
2	2	144	ASN
2	2	178	LEU
2	2	181	VAL
2	2	202	GLU
2	2	206	THR
2	2	255	TYR
2	2	303	ASP
2	2	355	LEU
2	2	404	LEU
2	2	406	LEU
2	2	417	ILE
2	2	430	ARG
2	2	443	ILE
2	2	494	TYR
2	2	503	ILE
2	2	509	THR
2	2	523	ASN
2	2	535	LEU
2	2	536	TYR
2	2	540	THR
2	2	552	ASN

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Mol	Chain	Res	Type
2	2	553	VAL
2	2	564	ILE
2	2	575	LEU
2	2	601	ILE
2	2	611	THR
2	2	617	VAL
2	2	635	ILE
2	2	651	PHE
2	3	14	THR
2	3	47	GLU
2	3	66	MET
2	3	81	VAL
2	3	84	VAL
2	3	88	THR
2	3	91	ASN
2	3	133	GLU
2	3	134	VAL
2	3	195	LEU
2	3	202	GLU
2	3	205	MET
2	3	206	THR
2	3	229	GLU
2	3	236	ILE
2	3	255	TYR
2	3	271	TYR
2	3	303	ASP
2	3	337	ILE
2	3	344	LEU
2	3	350	VAL
2	3	355	LEU
2	3	368	VAL
2	3	383	LEU
2	3	406	LEU
2	3	417	ILE
2	3	430	ARG
2	3	431	THR
2	3	445	SER
2	3	454	TYR
2	3	467	TRP
2	3	505	LEU
2	3	513	GLN
2	3	536	TYR

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Mol	Chain	Res	Type
2	3	572	LEU
2	3	588	THR
2	3	609	ASP
2	3	641	ASN
2	4	4	LEU
2	4	14	THR
2	4	58	THR
2	4	61	THR
2	4	66	MET
2	4	70	ASN
2	4	72	LEU
2	4	76	ASN
2	4	140	ILE
2	4	195	LEU
2	4	206	THR
2	4	290	VAL
2	4	303	ASP
2	4	344	LEU
2	4	350	VAL
2	4	355	LEU
2	4	370	VAL
2	4	383	LEU
2	4	406	LEU
2	4	412	GLU
2	4	413	THR
2	4	417	ILE
2	4	430	ARG
2	4	437	THR
2	4	439	ASN
2	4	454	TYR
2	4	473	ASP
2	4	483	ASN
2	4	484	VAL
2	4	494	TYR
2	4	495	ASN
2	4	513	GLN
2	4	523	ASN
2	4	535	LEU
2	4	536	TYR
2	4	560	LEU
2	4	572	LEU
2	4	611	THR

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Mol	Chain	Res	Type
2	4	624	VAL
2	5	14	THR
2	5	58	THR
2	5	66	MET
2	5	84	VAL
2	5	87	ASP
2	5	100	GLU
2	5	133	GLU
2	5	194	LEU
2	5	195	LEU
2	5	206	THR
2	5	268	VAL
2	5	269	PHE
2	5	303	ASP
2	5	350	VAL
2	5	355	LEU
2	5	378	CYS
2	5	385	THR
2	5	401	GLN
2	5	404	LEU
2	5	417	ILE
2	5	430	ARG
2	5	436	TYR
2	5	453	ASN
2	5	454	TYR
2	5	459	ASP
2	5	503	ILE
2	5	518	TYR
2	5	523	ASN
2	5	535	LEU
2	5	560	LEU
2	5	563	ASN
2	5	617	VAL
2	5	624	VAL
2	5	629	ILE
2	5	639	THR
2	5	653	GLU
3	6	7	THR
3	6	10	PHE
3	6	23	VAL
3	6	41	LEU
3	6	45	ILE

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Mol	Chain	Res	Type
3	6	49	ILE
3	6	51	VAL
3	6	55	ASN
3	6	57	LYS
3	6	113	VAL
3	6	124	THR
3	6	127	ILE
3	6	137	VAL
3	6	150	ILE
3	6	159	LEU
3	6	160	ASP
3	7	4	ASP
3	7	23	VAL
3	7	41	LEU
3	7	45	ILE
3	7	49	ILE
3	7	51	VAL
3	7	55	ASN
3	7	63	ASP
3	7	64	ARG
3	7	71	VAL
3	7	112	ILE
3	7	113	VAL
3	7	127	ILE
3	7	137	VAL
3	7	150	ILE
3	7	157	LEU
3	8	10	PHE
3	8	15	PHE
3	8	23	VAL
3	8	41	LEU
3	8	45	ILE
3	8	49	ILE
3	8	57	LYS
3	8	63	ASP
3	8	64	ARG
3	8	100	THR
3	8	112	ILE
3	8	113	VAL
3	8	127	ILE
3	8	137	VAL
3	8	150	ILE

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Mol	Chain	Res	Type
3	8	154	GLU
3	8	157	LEU
3	9	4	ASP
3	9	7	THR
3	9	10	PHE
3	9	23	VAL
3	9	41	LEU
3	9	45	ILE
3	9	48	LYS
3	9	49	ILE
3	9	51	VAL
3	9	57	LYS
3	9	58	ILE
3	9	59	ASN
3	9	63	ASP
3	9	97	ASN
3	9	98	GLU
3	9	112	ILE
3	9	113	VAL
3	9	123	VAL
3	9	127	ILE
3	9	150	ILE
4	A	11	VAL
5	A0	6	LEU
5	A0	26	GLU
5	A0	28	LEU
5	A0	31	ILE
5	A0	41	ARG
5	A0	45	VAL
5	A0	87	GLU
5	A0	88	VAL
5	A0	89	ASP
5	A0	106	THR
5	A0	107	GLU
5	A0	108	VAL
5	A0	109	VAL
5	A0	139	PHE
5	A0	140	GLN
5	A0	142	LYS
5	A0	165	LYS
5	A0	168	LYS
5	A0	185	VAL

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Mol	Chain	Res	Type
5	A0	210	THR
5	A0	217	CYS
5	A0	220	ARG
5	A0	223	GLU
5	A0	232	LYS
5	A0	242	LEU
5	A0	248	LYS
5	A0	267	LEU
5	A0	278	ARG
5	A0	301	MET
5	A0	307	THR
5	A0	308	MET
5	A0	310	ASN
5	A0	324	GLN
5	A0	340	ASP
5	A0	354	ASP
5	A0	374	ARG
5	A0	380	ILE
5	A0	397	THR
5	A0	401	LEU
5	A0	405	LYS
5	A0	417	VAL
5	A0	441	ILE
5	A0	445	LYS
5	A0	450	ARG
5	A0	451	ASP
5	A0	462	ILE
5	A0	503	LYS
5	A0	506	GLU
5	A0	508	GLU
5	A1	14	LYS
5	A1	24	GLU
5	A1	31	ILE
5	A1	45	VAL
5	A1	59	GLN
5	A1	61	ILE
5	A1	62	PHE
5	A1	86	TYR
5	A1	101	VAL
5	A1	119	SER
5	A1	134	LEU
5	A1	141	ARG

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Mol	Chain	Res	Type
5	A1	146	HIS
5	A1	149	ARG
5	A1	162	ILE
5	A1	169	GLU
5	A1	185	VAL
5	A1	186	ARG
5	A1	189	ILE
5	A1	204	GLU
5	A1	212	HIS
5	A1	215	TYR
5	A1	248	LYS
5	A1	250	ILE
5	A1	263	GLN
5	A1	264	LEU
5	A1	267	LEU
5	A1	301	MET
5	A1	308	MET
5	A1	310	ASN
5	A1	312	VAL
5	A1	320	LYS
5	A1	322	LYS
5	A1	349	THR
5	A1	359	MET
5	A1	373	LEU
5	A1	380	ILE
5	A1	388	VAL
5	A1	397	THR
5	A1	401	LEU
5	A1	426	LEU
5	A1	434	GLU
5	A1	445	LYS
5	A1	456	GLU
5	A1	459	GLU
5	A1	462	ILE
5	A1	469	MET
5	A1	474	GLU
5	A1	479	LYS
5	A1	484	ARG
5	A1	495	ASP
5	A1	497	GLU
5	A1	499	GLU
5	A1	501	GLU

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Mol	Chain	Res	Type
5	A1	503	LYS
5	A1	504	GLN
5	A1	508	GLU
5	A2	17	GLU
5	A2	45	VAL
5	A2	55	ASN
5	A2	70	LYS
5	A2	74	GLU
5	A2	87	GLU
5	A2	101	VAL
5	A2	107	GLU
5	A2	108	VAL
5	A2	118	PHE
5	A2	128	ASP
5	A2	162	ILE
5	A2	163	ASP
5	A2	166	ARG
5	A2	178	ASP
5	A2	185	VAL
5	A2	188	ILE
5	A2	190	THR
5	A2	198	ILE
5	A2	200	LYS
5	A2	212	HIS
5	A2	215	TYR
5	A2	217	CYS
5	A2	223	GLU
5	A2	227	LYS
5	A2	242	LEU
5	A2	267	LEU
5	A2	278	ARG
5	A2	301	MET
5	A2	308	MET
5	A2	310	ASN
5	A2	320	LYS
5	A2	322	LYS
5	A2	328	MET
5	A2	347	VAL
5	A2	359	MET
5	A2	380	ILE
5	A2	385	GLN
5	A2	389	MET

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Mol	Chain	Res	Type
5	A2	397	THR
5	A2	401	LEU
5	A2	428	LEU
5	A2	441	ILE
5	A2	450	ARG
5	A2	456	GLU
5	A2	462	ILE
5	A2	487	MET
5	A2	495	ASP
5	A2	499	GLU
5	A2	510	LYS
5	A3	17	GLU
5	A3	28	LEU
5	A3	29	VAL
5	A3	31	ILE
5	A3	36	LEU
5	A3	45	VAL
5	A3	54	TYR
5	A3	60	THR
5	A3	85	ASN
5	A3	88	VAL
5	A3	101	VAL
5	A3	107	GLU
5	A3	134	LEU
5	A3	165	LYS
5	A3	168	LYS
5	A3	185	VAL
5	A3	188	ILE
5	A3	189	ILE
5	A3	207	ILE
5	A3	209	ASP
5	A3	213	GLU
5	A3	221	MET
5	A3	223	GLU
5	A3	226	THR
5	A3	232	LYS
5	A3	245	CYS
5	A3	251	ILE
5	A3	267	LEU
5	A3	308	MET
5	A3	310	ASN
5	A3	327	ASN

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Mol	Chain	Res	Type
5	A3	328	MET
5	A3	333	ASP
5	A3	340	ASP
5	A3	345	THR
5	A3	359	MET
5	A3	360	GLU
5	A3	374	ARG
5	A3	377	LEU
5	A3	380	ILE
5	A3	382	GLN
5	A3	389	MET
5	A3	396	ILE
5	A3	397	THR
5	A3	400	GLU
5	A3	401	LEU
5	A3	405	LYS
5	A3	410	LEU
5	A3	417	VAL
5	A3	423	LYS
5	A3	425	ASN
5	A3	441	ILE
5	A3	450	ARG
5	A3	462	ILE
5	A3	487	MET
5	A3	495	ASP
5	A3	497	GLU
5	A3	499	GLU
6	A4	67	GLU
6	A4	68	ILE
6	A4	95	VAL
6	A4	107	ILE
6	A4	114	VAL
6	A4	131	TYR
6	A4	136	VAL
6	A4	235	LEU
6	A4	254	ILE
6	A4	259	ILE
6	A4	265	GLN
6	A4	303	ASN
6	A4	318	LYS
6	A4	345	TRP
6	A4	358	ASP

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Mol	Chain	Res	Type
6	A4	377	ILE
6	A4	389	VAL
6	A4	417	LEU
6	A4	431	GLN
6	A4	432	ASP
6	A4	436	VAL
6	A4	459	LEU
6	A4	476	ARG
6	A4	496	ILE
6	A4	507	LEU
6	A5	101	ARG
6	A5	106	LEU
6	A5	118	ASN
6	A5	121	THR
6	A5	208	LEU
6	A5	221	LEU
6	A5	259	ILE
6	A5	322	THR
6	A5	331	VAL
6	A5	380	ARG
6	A5	389	VAL
6	A5	405	SER
6	A5	417	LEU
6	A5	436	VAL
6	A5	449	TYR
6	A5	450	TYR
6	A5	471	MET
6	A5	496	ILE
6	A5	507	LEU
7	A6	12	LEU
7	A6	20	LEU
7	A6	25	ILE
7	A6	36	ASP
7	A6	43	GLU
7	A6	66	GLU
7	A6	77	ARG
7	A6	80	ASN
7	A6	98	MET
7	A6	101	ASN
7	A6	106	TRP
7	A6	137	ASP
7	A6	138	LEU

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Mol	Chain	Res	Type
7	A6	158	ILE
7	A6	162	TRP
7	A6	178	LYS
7	A6	189	LYS
7	A6	192	ILE
7	A6	211	ASP
7	A6	231	VAL
7	A6	237	VAL
7	A6	258	LEU
7	A6	276	THR
7	A6	297	LEU
7	A6	299	LEU
6	A7	95	VAL
6	A7	101	ARG
6	A7	106	LEU
6	A7	110	ASP
6	A7	117	MET
6	A7	131	TYR
6	A7	174	VAL
6	A7	184	GLU
6	A7	187	THR
6	A7	188	VAL
6	A7	208	LEU
6	A7	265	GLN
6	A7	289	GLU
6	A7	315	GLN
6	A7	324	THR
6	A7	331	VAL
6	A7	344	ARG
6	A7	406	THR
6	A7	412	VAL
6	A7	448	ILE
6	A7	476	ARG
6	A8	111	ILE
6	A8	174	VAL
6	A8	185	THR
6	A8	247	TRP
6	A8	265	GLN
6	A8	279	ARG
6	A8	287	ASP
6	A8	331	VAL
6	A8	344	ARG

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Mol	Chain	Res	Type
6	A8	376	ILE
6	A8	377	ILE
6	A8	395	TYR
6	A8	435	THR
6	A8	444	MET
6	A8	466	ASN
6	A8	471	MET
6	A8	486	GLU
6	A8	516	VAL
6	A9	110	ASP
6	A9	117	MET
6	A9	124	VAL
6	A9	174	VAL
6	A9	187	THR
6	A9	244	ASP
6	A9	255	ASP
6	A9	278	LEU
6	A9	398	GLN
6	A9	400	LEU
6	A9	423	VAL
6	A9	427	GLN
6	A9	432	ASP
6	A9	482	ASN
6	A9	486	GLU
3	AA	4	ASP
3	AA	7	THR
3	AA	10	PHE
3	AA	23	VAL
3	AA	41	LEU
3	AA	45	ILE
3	AA	57	LYS
3	AA	60	VAL
3	AA	63	ASP
3	AA	72	THR
3	AA	113	VAL
3	AA	124	THR
3	AA	127	ILE
3	AA	137	VAL
3	AA	150	ILE
8	AB	20	LEU
8	AB	26	ILE
8	AB	35	LYS

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Mol	Chain	Res	Type
8	AB	59	ILE
8	AB	60	ASN
8	AB	72	LEU
8	AB	88	PHE
8	AB	96	ASN
8	AB	98	LEU
8	AB	105	VAL
8	AB	114	ILE
8	AB	142	GLN
8	AB	147	THR
8	AB	163	ILE
8	AB	164	LYS
8	AB	172	ILE
8	AB	187	GLU
8	AB	198	MET
8	AB	208	LEU
8	AB	214	THR
8	AB	229	VAL
8	AB	238	VAL
8	AB	241	ASP
8	AB	250	THR
8	AB	256	THR
8	AB	258	ASN
9	AC	5	LEU
9	AC	10	ASN
9	AC	11	GLN
9	AC	47	THR
9	AC	64	VAL
9	AC	68	TYR
9	AC	76	ILE
9	AC	129	ASN
9	AC	136	SER
9	AC	140	GLU
9	AC	156	THR
9	AC	172	ILE
2	AD	11	LYS
2	AD	14	THR
2	AD	58	THR
2	AD	66	MET
2	AD	84	VAL
2	AD	88	THR
2	AD	91	ASN

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Mol	Chain	Res	Type
2	AD	187	ILE
2	AD	194	LEU
2	AD	255	TYR
2	AD	268	VAL
2	AD	302	LYS
2	AD	303	ASP
2	AD	344	LEU
2	AD	355	LEU
2	AD	360	ASP
2	AD	366	GLU
2	AD	401	GLN
2	AD	404	LEU
2	AD	408	SER
2	AD	417	ILE
2	AD	424	ASP
2	AD	430	ARG
2	AD	465	ASN
2	AD	483	ASN
2	AD	505	LEU
2	AD	513	GLN
2	AD	520	GLU
2	AD	523	ASN
2	AD	528	THR
2	AD	535	LEU
2	AD	536	TYR
2	AD	560	LEU
2	AD	564	ILE
2	AD	572	LEU
2	AD	588	THR
2	AD	611	THR
2	AD	629	ILE
2	AD	651	PHE
2	AD	654	LEU
3	AE	6	VAL
3	AE	17	ARG
3	AE	23	VAL
3	AE	31	ASN
3	AE	37	LYS
3	AE	45	ILE
3	AE	49	ILE
3	AE	54	MET
3	AE	56	ARG

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Mol	Chain	Res	Type
3	AE	57	LYS
3	AE	64	ARG
3	AE	112	ILE
3	AE	113	VAL
3	AE	121	LYS
3	AE	125	LYS
3	AE	126	GLU
3	AE	127	ILE
3	AE	137	VAL
3	AE	150	ILE
3	AF	6	VAL
3	AF	17	ARG
3	AF	19	ASN
3	AF	23	VAL
3	AF	31	ASN
3	AF	48	LYS
3	AF	49	ILE
3	AF	56	ARG
3	AF	57	LYS
3	AF	58	ILE
3	AF	72	THR
3	AF	112	ILE
3	AF	113	VAL
3	AF	115	GLN
3	AF	121	LYS
3	AF	122	THR
3	AF	127	ILE
3	AF	128	GLU
3	AF	136	ASN
3	AF	137	VAL
3	AF	142	LEU
3	AG	6	VAL
3	AG	19	ASN
3	AG	23	VAL
3	AG	31	ASN
3	AG	37	LYS
3	AG	45	ILE
3	AG	48	LYS
3	AG	49	ILE
3	AG	57	LYS
3	AG	58	ILE
3	AG	98	GLU

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Mol	Chain	Res	Type
3	AG	112	ILE
3	AG	113	VAL
3	AG	121	LYS
3	AG	127	ILE
3	AG	137	VAL
3	AG	143	ASP
3	AG	163	GLU
3	AH	5	ASP
3	AH	6	VAL
3	AH	17	ARG
3	AH	19	ASN
3	AH	23	VAL
3	AH	37	LYS
3	AH	45	ILE
3	AH	48	LYS
3	AH	49	ILE
3	AH	57	LYS
3	AH	58	ILE
3	AH	72	THR
3	AH	80	ASP
3	AH	112	ILE
3	AH	121	LYS
3	AH	127	ILE
3	AH	137	VAL
3	AH	142	LEU
3	AH	150	ILE
3	AI	6	VAL
3	AI	17	ARG
3	AI	37	LYS
3	AI	45	ILE
3	AI	48	LYS
3	AI	49	ILE
3	AI	54	MET
3	AI	57	LYS
3	AI	58	ILE
3	AI	63	ASP
3	AI	112	ILE
3	AI	113	VAL
3	AI	127	ILE
3	AI	128	GLU
3	AJ	6	VAL
3	AJ	11	GLU

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Mol	Chain	Res	Type
3	AJ	14	ASP
3	AJ	19	ASN
3	AJ	23	VAL
3	AJ	37	LYS
3	AJ	45	ILE
3	AJ	49	ILE
3	AJ	54	MET
3	AJ	57	LYS
3	AJ	58	ILE
3	AJ	64	ARG
3	AJ	70	THR
3	AJ	100	THR
3	AJ	112	ILE
3	AJ	113	VAL
3	AJ	127	ILE
3	AJ	136	ASN
3	AJ	142	LEU
2	AK	20	VAL
2	AK	42	LYS
2	AK	49	ASP
2	AK	66	MET
2	AK	88	THR
2	AK	91	ASN
2	AK	112	VAL
2	AK	115	LYS
2	AK	130	LYS
2	AK	133	GLU
2	AK	144	ASN
2	AK	149	LYS
2	AK	166	ASN
2	AK	170	GLU
2	AK	171	ILE
2	AK	186	LYS
2	AK	188	ILE
2	AK	195	LEU
2	AK	197	GLU
2	AK	202	GLU
2	AK	219	ILE
2	AK	229	GLU
2	AK	239	VAL
2	AK	255	TYR
2	AK	298	LYS

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Mol	Chain	Res	Type
2	AK	302	LYS
2	AK	303	ASP
2	AK	344	LEU
2	AK	383	LEU
2	AK	404	LEU
2	AK	413	THR
2	AK	417	ILE
2	AK	426	LEU
2	AK	430	ARG
2	AK	446	THR
2	AK	456	TYR
2	AK	468	VAL
2	AK	487	THR
2	AK	503	ILE
2	AK	505	LEU
2	AK	523	ASN
2	AK	526	THR
2	AK	535	LEU
2	AK	540	THR
2	AK	548	PHE
2	AK	550	ARG
2	AK	572	LEU
2	AK	574	GLU
2	AK	596	LYS
2	AK	598	LEU
2	AK	606	VAL
2	AK	610	THR
2	AK	621	ASN
2	AK	650	ASP
2	AK	651	PHE
2	AK	655	THR
2	AL	14	THR
2	AL	32	LYS
2	AL	66	MET
2	AL	76	ASN
2	AL	80	VAL
2	AL	81	VAL
2	AL	112	VAL
2	AL	121	VAL
2	AL	130	LYS
2	AL	139	LYS
2	AL	149	LYS

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Mol	Chain	Res	Type
2	AL	153	LYS
2	AL	170	GLU
2	AL	182	ILE
2	AL	183	THR
2	AL	186	LYS
2	AL	195	LEU
2	AL	199	GLU
2	AL	219	ILE
2	AL	230	LEU
2	AL	266	LYS
2	AL	290	VAL
2	AL	298	LYS
2	AL	303	ASP
2	AL	344	LEU
2	AL	361	PHE
2	AL	366	GLU
2	AL	384	GLU
2	AL	398	ASP
2	AL	404	LEU
2	AL	417	ILE
2	AL	430	ARG
2	AL	437	THR
2	AL	482	ASP
2	AL	503	ILE
2	AL	526	THR
2	AL	535	LEU
2	AL	536	TYR
2	AL	550	ARG
2	AL	572	LEU
2	AL	592	LEU
2	AL	606	VAL
2	AL	626	THR
2	AL	629	ILE
2	AL	651	PHE
2	AM	66	MET
2	AM	80	VAL
2	AM	81	VAL
2	AM	88	THR
2	AM	112	VAL
2	AM	130	LYS
2	AM	139	LYS
2	AM	143	ILE

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Mol	Chain	Res	Type
2	AM	149	LYS
2	AM	171	ILE
2	AM	186	LYS
2	AM	195	LEU
2	AM	202	GLU
2	AM	219	ILE
2	AM	239	VAL
2	AM	252	LEU
2	AM	255	TYR
2	AM	298	LYS
2	AM	303	ASP
2	AM	332	GLU
2	AM	344	LEU
2	AM	366	GLU
2	AM	383	LEU
2	AM	385	THR
2	AM	398	ASP
2	AM	404	LEU
2	AM	417	ILE
2	AM	443	ILE
2	AM	446	THR
2	AM	451	ASP
2	AM	467	TRP
2	AM	482	ASP
2	AM	483	ASN
2	AM	484	VAL
2	AM	505	LEU
2	AM	522	ILE
2	AM	526	THR
2	AM	535	LEU
2	AM	536	TYR
2	AM	542	THR
2	AM	564	ILE
2	AM	576	ASN
2	AM	606	VAL
2	AM	617	VAL
2	AM	629	ILE
2	AM	650	ASP
2	AM	655	THR
2	AN	32	LYS
2	AN	42	LYS
2	AN	66	MET

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Mol	Chain	Res	Type
2	AN	88	THR
2	AN	91	ASN
2	AN	121	VAL
2	AN	130	LYS
2	AN	133	GLU
2	AN	141	LYS
2	AN	149	LYS
2	AN	166	ASN
2	AN	171	ILE
2	AN	178	LEU
2	AN	186	LYS
2	AN	190	ASP
2	AN	194	LEU
2	AN	219	ILE
2	AN	230	LEU
2	AN	255	TYR
2	AN	298	LYS
2	AN	303	ASP
2	AN	344	LEU
2	AN	365	ARG
2	AN	366	GLU
2	AN	406	LEU
2	AN	412	GLU
2	AN	417	ILE
2	AN	430	ARG
2	AN	443	ILE
2	AN	456	TYR
2	AN	467	TRP
2	AN	503	ILE
2	AN	535	LEU
2	AN	536	TYR
2	AN	542	THR
2	AN	572	LEU
2	AN	592	LEU
2	AN	596	LYS
2	AN	606	VAL
2	AN	654	LEU
2	AO	14	THR
2	AO	32	LYS
2	AO	76	ASN
2	AO	81	VAL
2	AO	116	ILE

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Mol	Chain	Res	Type
2	AO	139	LYS
2	AO	149	LYS
2	AO	166	ASN
2	AO	171	ILE
2	AO	194	LEU
2	AO	195	LEU
2	AO	202	GLU
2	AO	215	LYS
2	AO	219	ILE
2	AO	239	VAL
2	AO	252	LEU
2	AO	289	ILE
2	AO	290	VAL
2	AO	298	LYS
2	AO	303	ASP
2	AO	317	LYS
2	AO	344	LEU
2	AO	365	ARG
2	AO	384	GLU
2	AO	398	ASP
2	AO	415	VAL
2	AO	417	ILE
2	AO	430	ARG
2	AO	437	THR
2	AO	443	ILE
2	AO	453	ASN
2	AO	455	LYS
2	AO	456	TYR
2	AO	467	TRP
2	AO	483	ASN
2	AO	518	TYR
2	AO	523	ASN
2	AO	535	LEU
2	AO	536	TYR
2	AO	542	THR
2	AO	550	ARG
2	AO	574	GLU
2	AO	606	VAL
2	AO	614	THR
2	AO	629	ILE
2	AO	633	ARG
2	AO	650	ASP

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Mol	Chain	Res	Type
2	AP	12	GLU
2	AP	13	THR
2	AP	14	THR
2	AP	16	GLN
2	AP	32	LYS
2	AP	66	MET
2	AP	80	VAL
2	AP	91	ASN
2	AP	130	LYS
2	AP	149	LYS
2	AP	178	LEU
2	AP	182	ILE
2	AP	186	LYS
2	AP	197	GLU
2	AP	202	GLU
2	AP	215	LYS
2	AP	219	ILE
2	AP	239	VAL
2	AP	243	ASP
2	AP	252	LEU
2	AP	255	TYR
2	AP	290	VAL
2	AP	298	LYS
2	AP	299	ARG
2	AP	303	ASP
2	AP	366	GLU
2	AP	383	LEU
2	AP	398	ASP
2	AP	404	LEU
2	AP	417	ILE
2	AP	430	ARG
2	AP	438	ASP
2	AP	451	ASP
2	AP	453	ASN
2	AP	454	TYR
2	AP	473	ASP
2	AP	477	LEU
2	AP	503	ILE
2	AP	523	ASN
2	AP	536	TYR
2	AP	540	THR
2	AP	542	THR

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Mol	Chain	Res	Type
2	AP	550	ARG
2	AP	552	ASN
2	AP	553	VAL
2	AP	572	LEU
2	AP	574	GLU
2	AP	592	LEU
2	AP	606	VAL
2	AP	617	VAL
2	AP	624	VAL
2	AP	650	ASP
2	AP	651	PHE
2	AP	653	GLU
2	AP	655	THR
10	AQ	351	VAL
10	AQ	374	THR
10	AR	353	VAL
10	AR	374	THR
10	AS	314	GLU
10	AS	361	ILE
10	AS	362	ILE
10	AT	337	HIS
10	AU	307	CYS
6	AV	72	HIS
6	AV	110	ASP
6	AV	114	VAL
6	AV	115	GLN
6	AV	124	VAL
6	AV	174	VAL
6	AV	185	THR
6	AV	257	GLN
6	AV	265	GLN
6	AV	278	LEU
6	AV	287	ASP
6	AV	316	VAL
6	AV	331	VAL
6	AV	393	ILE
6	AV	395	TYR
6	AV	422	ARG
6	AV	423	VAL
6	AV	427	GLN
6	AV	439	LYS
6	AV	449	TYR

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Mol	Chain	Res	Type
6	AV	450	TYR
6	AV	476	ARG
6	AV	479	ILE
6	AV	521	ILE
6	AW	68	ILE
6	AW	106	LEU
6	AW	114	VAL
6	AW	188	VAL
6	AW	232	ILE
6	AW	255	ASP
6	AW	331	VAL
6	AW	351	LYS
6	AW	364	ILE
6	AW	377	ILE
6	AW	389	VAL
6	AW	432	ASP
6	AW	436	VAL
6	AW	439	LYS
6	AW	479	ILE
6	AW	495	ARG
6	AW	515	ARG
6	AX	67	GLU
6	AX	68	ILE
6	AX	77	THR
6	AX	88	VAL
6	AX	89	THR
6	AX	95	VAL
6	AX	112	CYS
6	AX	114	VAL
6	AX	131	TYR
6	AX	136	VAL
6	AX	183	GLN
6	AX	188	VAL
6	AX	243	THR
6	AX	259	ILE
6	AX	289	GLU
6	AX	334	PHE
6	AX	344	ARG
6	AX	356	GLN
6	AX	376	ILE
6	AX	377	ILE
6	AX	389	VAL

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Mol	Chain	Res	Type
6	AX	395	TYR
6	AX	430	LYS
6	AX	432	ASP
6	AX	436	VAL
6	AX	444	MET
6	AX	481	ILE
6	AX	486	GLU
6	AX	497	GLN
6	AX	503	ILE
6	AX	513	PHE
7	AY	12	LEU
7	AY	25	ILE
7	AY	28	GLU
7	AY	44	LEU
7	AY	51	ASP
7	AY	73	VAL
7	AY	87	ILE
7	AY	103	THR
7	AY	108	THR
7	AY	117	ILE
7	AY	121	MET
7	AY	138	LEU
7	AY	152	GLN
7	AY	162	TRP
7	AY	189	LYS
7	AY	192	ILE
7	AY	207	VAL
7	AY	227	VAL
7	AY	234	ASP
7	AY	252	THR
7	AY	258	LEU
7	AY	282	LEU
7	AY	297	LEU
7	AY	299	LEU
6	AZ	67	GLU
6	AZ	68	ILE
6	AZ	84	THR
6	AZ	95	VAL
6	AZ	106	LEU
6	AZ	107	ILE
6	AZ	114	VAL
6	AZ	121	THR

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Mol	Chain	Res	Type
6	AZ	131	TYR
6	AZ	145	HIS
6	AZ	235	LEU
6	AZ	236	GLN
6	AZ	243	THR
6	AZ	259	ILE
6	AZ	260	GLU
6	AZ	278	LEU
6	AZ	300	LEU
6	AZ	324	THR
6	AZ	356	GLN
6	AZ	376	ILE
6	AZ	389	VAL
6	AZ	398	GLN
6	AZ	417	LEU
6	AZ	432	ASP
6	AZ	436	VAL
6	AZ	444	MET
6	AZ	448	ILE
6	AZ	470	VAL
6	AZ	476	ARG
6	AZ	482	ASN
6	AZ	496	ILE
6	AZ	503	ILE
6	AZ	521	ILE
7	Aa	12	LEU
7	Aa	53	LEU
7	Aa	90	THR
7	Aa	103	THR
7	Aa	106	TRP
7	Aa	111	LEU
7	Aa	112	LEU
7	Aa	121	MET
7	Aa	138	LEU
7	Aa	148	MET
7	Aa	150	MET
7	Aa	151	MET
7	Aa	168	GLU
7	Aa	175	ASN
7	Aa	210	GLN
7	Aa	215	LEU
7	Aa	229	ARG

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Mol	Chain	Res	Type
7	Aa	237	VAL
7	Aa	252	THR
7	Aa	258	LEU
7	Aa	265	ARG
7	Aa	290	LYS
7	Aa	297	LEU
7	Aa	299	LEU
7	Ab	12	LEU
7	Ab	28	GLU
7	Ab	40	ARG
7	Ab	44	LEU
7	Ab	53	LEU
7	Ab	66	GLU
7	Ab	87	ILE
7	Ab	92	ILE
7	Ab	95	ILE
7	Ab	98	MET
7	Ab	101	ASN
7	Ab	126	ASN
7	Ab	129	TYR
7	Ab	134	PHE
7	Ab	162	TRP
7	Ab	168	GLU
7	Ab	182	ILE
7	Ab	189	LYS
7	Ab	230	VAL
7	Ab	231	VAL
7	Ab	237	VAL
7	Ab	249	ASP
7	Ab	275	VAL
7	Ab	297	LEU
7	Ab	299	LEU
6	Ac	67	GLU
6	Ac	103	ILE
6	Ac	109	PHE
6	Ac	118	ASN
6	Ac	119	SER
6	Ac	130	VAL
6	Ac	134	ASP
6	Ac	208	LEU
6	Ac	259	ILE
6	Ac	331	VAL

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Mol	Chain	Res	Type
6	Ac	389	VAL
6	Ac	391	THR
6	Ac	398	GLN
6	Ac	408	THR
6	Ac	417	LEU
6	Ac	432	ASP
6	Ac	436	VAL
6	Ac	449	TYR
6	Ac	450	TYR
6	Ac	516	VAL
6	Ac	518	VAL
6	Ad	91	ILE
6	Ad	106	LEU
6	Ad	124	VAL
6	Ad	208	LEU
6	Ad	215	GLN
6	Ad	259	ILE
6	Ad	263	SER
6	Ad	289	GLU
6	Ad	324	THR
6	Ad	331	VAL
6	Ad	338	ILE
6	Ad	380	ARG
6	Ad	384	ASN
6	Ad	389	VAL
6	Ad	398	GLN
6	Ad	417	LEU
6	Ad	430	LYS
6	Ad	436	VAL
6	Ad	445	ASP
6	Ad	479	ILE
6	Ad	486	GLU
6	Ad	516	VAL
6	Ae	67	GLU
6	Ae	71	ASP
6	Ae	111	ILE
6	Ae	141	LYS
6	Ae	184	GLU
6	Ae	187	THR
6	Ae	194	VAL
6	Ae	208	LEU
6	Ae	222	VAL

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Mol	Chain	Res	Type
6	Ae	259	ILE
6	Ae	303	ASN
6	Ae	324	THR
6	Ae	331	VAL
6	Ae	338	ILE
6	Ae	348	GLU
6	Ae	389	VAL
6	Ae	398	GLN
6	Ae	417	LEU
6	Ae	430	LYS
6	Ae	444	MET
6	Ae	448	ILE
6	Ae	450	TYR
6	Ae	481	ILE
6	Ae	507	LEU
6	Ae	516	VAL
6	Ae	518	VAL
6	Af	68	ILE
6	Af	106	LEU
6	Af	107	ILE
6	Af	114	VAL
6	Af	117	MET
6	Af	147	MET
6	Af	187	THR
6	Af	242	SER
6	Af	244	ASP
6	Af	255	ASP
6	Af	287	ASP
6	Af	324	THR
6	Af	331	VAL
6	Af	377	ILE
6	Af	398	GLN
6	Af	430	LYS
6	Af	439	LYS
6	Af	471	MET
6	Af	479	ILE
6	Ag	68	ILE
6	Ag	79	ILE
6	Ag	95	VAL
6	Ag	106	LEU
6	Ag	107	ILE
6	Ag	110	ASP

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Mol	Chain	Res	Type
6	Ag	114	VAL
6	Ag	124	VAL
6	Ag	188	VAL
6	Ag	331	VAL
6	Ag	344	ARG
6	Ag	374	ASN
6	Ag	377	ILE
6	Ag	389	VAL
6	Ag	456	LEU
6	Ah	68	ILE
6	Ah	84	THR
6	Ah	106	LEU
6	Ah	107	ILE
6	Ah	114	VAL
6	Ah	124	VAL
6	Ah	161	LYS
6	Ah	331	VAL
6	Ah	345	TRP
6	Ah	377	ILE
6	Ah	389	VAL
6	Ah	395	TYR
6	Ah	436	VAL
6	Ah	479	ILE
6	Ah	495	ARG
6	Ai	71	ASP
6	Ai	72	HIS
6	Ai	99	VAL
6	Ai	107	ILE
6	Ai	114	VAL
6	Ai	131	TYR
6	Ai	279	ARG
6	Ai	328	LYS
6	Ai	331	VAL
6	Ai	377	ILE
6	Ai	395	TYR
6	Ai	398	GLN
6	Ai	408	THR
6	Ai	436	VAL
6	Ai	439	LYS
6	Aj	72	HIS
6	Aj	101	ARG
6	Aj	107	ILE

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Mol	Chain	Res	Type
6	Aj	110	ASP
6	Aj	117	MET
6	Aj	133	LYS
6	Aj	134	ASP
6	Aj	174	VAL
6	Aj	208	LEU
6	Aj	255	ASP
6	Aj	259	ILE
6	Aj	324	THR
6	Aj	331	VAL
6	Aj	345	TRP
6	Aj	395	TYR
6	Aj	421	TYR
6	Ak	106	LEU
6	Ak	109	PHE
6	Ak	110	ASP
6	Ak	170	THR
6	Ak	174	VAL
6	Ak	223	GLU
6	Ak	252	PHE
6	Ak	255	ASP
6	Ak	260	GLU
6	Ak	300	LEU
6	Ak	328	LYS
6	Ak	331	VAL
6	Ak	344	ARG
6	Ak	448	ILE
7	Al	12	LEU
7	Al	87	ILE
7	Al	92	ILE
7	Al	101	ASN
7	Al	106	TRP
7	Al	117	ILE
7	Al	127	ARG
7	Al	137	ASP
7	Al	138	LEU
7	Al	152	GLN
7	Al	192	ILE
7	Al	210	GLN
7	Al	215	LEU
7	Al	237	VAL
7	Al	238	LYS

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Mol	Chain	Res	Type
7	Al	258	LEU
7	Al	265	ARG
7	Al	266	HIS
7	Al	280	GLN
7	Al	297	LEU
7	Al	299	LEU
7	Al	304	PHE
6	Am	88	VAL
6	Am	95	VAL
6	Am	101	ARG
6	Am	106	LEU
6	Am	109	PHE
6	Am	131	TYR
6	Am	174	VAL
6	Am	249	GLU
6	Am	255	ASP
6	Am	265	GLN
6	Am	297	GLU
6	Am	331	VAL
6	Am	344	ARG
6	Am	406	THR
6	Am	448	ILE
6	Am	450	TYR
6	Am	490	GLN
6	Am	521	ILE
6	An	89	THR
6	An	106	LEU
6	An	131	TYR
6	An	136	VAL
6	An	185	THR
6	An	188	VAL
6	An	243	THR
6	An	279	ARG
6	An	331	VAL
6	An	376	ILE
6	An	377	ILE
6	An	395	TYR
6	An	432	ASP
6	An	435	THR
6	An	465	LYS
6	An	466	ASN
6	An	490	GLN

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Mol	Chain	Res	Type
6	An	516	VAL
6	Ao	88	VAL
6	Ao	90	GLN
6	Ao	105	ASN
6	Ao	124	VAL
6	Ao	131	TYR
6	Ao	142	GLU
6	Ao	174	VAL
6	Ao	185	THR
6	Ao	247	TRP
6	Ao	276	GLN
6	Ao	294	LEU
6	Ao	331	VAL
6	Ao	376	ILE
6	Ao	377	ILE
6	Ao	417	LEU
6	Ao	435	THR
6	Ao	436	VAL
6	Ao	463	ASP
6	Ao	486	GLU
6	Ao	507	LEU
6	Ao	516	VAL
6	Ap	88	VAL
6	Ap	95	VAL
6	Ap	114	VAL
6	Ap	131	TYR
6	Ap	185	THR
6	Ap	237	GLU
6	Ap	247	TRP
6	Ap	260	GLU
6	Ap	272	ILE
6	Ap	331	VAL
6	Ap	364	ILE
6	Ap	376	ILE
6	Ap	377	ILE
6	Ap	417	LEU
6	Ap	435	THR
6	Ap	443	GLU
6	Ap	444	MET
6	Ap	459	LEU
6	Ap	507	LEU
6	Ap	513	PHE

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Mol	Chain	Res	Type
6	Ap	516	VAL
7	Aq	12	LEU
7	Aq	28	GLU
7	Aq	29	LEU
7	Aq	80	ASN
7	Aq	87	ILE
7	Aq	117	ILE
7	Aq	121	MET
7	Aq	125	CYS
7	Aq	127	ARG
7	Aq	141	PHE
7	Aq	148	MET
7	Aq	158	ILE
7	Aq	168	GLU
7	Aq	170	LEU
7	Aq	188	THR
7	Aq	189	LYS
7	Aq	192	ILE
7	Aq	215	LEU
7	Aq	237	VAL
7	Aq	238	LYS
7	Aq	252	THR
7	Aq	258	LEU
7	Aq	282	LEU
7	Aq	297	LEU
7	Aq	299	LEU
7	Ar	12	LEU
7	Ar	28	GLU
7	Ar	29	LEU
7	Ar	51	ASP
7	Ar	53	LEU
7	Ar	80	ASN
7	Ar	87	ILE
7	Ar	92	ILE
7	Ar	95	ILE
7	Ar	103	THR
7	Ar	108	THR
7	Ar	109	ASP
7	Ar	181	LEU
7	Ar	229	ARG
7	Ar	230	VAL
7	Ar	237	VAL

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Mol	Chain	Res	Type
7	Ar	258	LEU
7	Ar	265	ARG
7	Ar	297	LEU
7	As	12	LEU
7	As	17	LEU
7	As	28	GLU
7	As	33	GLN
7	As	36	ASP
7	As	51	ASP
7	As	66	GLU
7	As	80	ASN
7	As	109	ASP
7	As	118	ASN
7	As	127	ARG
7	As	129	TYR
7	As	134	PHE
7	As	138	LEU
7	As	148	MET
7	As	162	TRP
7	As	182	ILE
7	As	189	LYS
7	As	192	ILE
7	As	201	THR
7	As	207	VAL
7	As	231	VAL
7	As	234	ASP
7	As	258	LEU
7	As	298	TYR
7	As	299	LEU
7	At	12	LEU
7	At	24	ILE
7	At	28	GLU
7	At	32	ASP
7	At	33	GLN
7	At	40	ARG
7	At	47	GLU
7	At	51	ASP
7	At	66	GLU
7	At	80	ASN
7	At	107	PHE
7	At	108	THR
7	At	112	LEU

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Mol	Chain	Res	Type
7	At	118	ASN
7	At	121	MET
7	At	128	PHE
7	At	138	LEU
7	At	144	LEU
7	At	152	GLN
7	At	162	TRP
7	At	168	GLU
7	At	189	LYS
7	At	207	VAL
7	At	231	VAL
7	At	258	LEU
7	At	297	LEU
7	At	299	LEU
6	Au	71	ASP
6	Au	110	ASP
6	Au	117	MET
6	Au	124	VAL
6	Au	174	VAL
6	Au	187	THR
6	Au	257	GLN
6	Au	258	VAL
6	Au	289	GLU
6	Au	303	ASN
6	Au	316	VAL
6	Au	323	LEU
6	Au	389	VAL
6	Au	423	VAL
6	Au	432	ASP
6	Au	439	LYS
6	Au	448	ILE
6	Au	450	TYR
6	Au	459	LEU
6	Au	496	ILE
5	Av	28	LEU
5	Av	29	VAL
5	Av	31	ILE
5	Av	36	LEU
5	Av	45	VAL
5	Av	55	ASN
5	Av	58	PHE
5	Av	61	ILE

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Mol	Chain	Res	Type
5	Av	65	TYR
5	Av	69	MET
5	Av	70	LYS
5	Av	74	GLU
5	Av	85	ASN
5	Av	101	VAL
5	Av	108	VAL
5	Av	142	LYS
5	Av	165	LYS
5	Av	168	LYS
5	Av	174	LEU
5	Av	189	ILE
5	Av	190	THR
5	Av	191	GLU
5	Av	196	THR
5	Av	198	ILE
5	Av	209	ASP
5	Av	213	GLU
5	Av	223	GLU
5	Av	240	SER
5	Av	242	LEU
5	Av	248	LYS
5	Av	251	ILE
5	Av	263	GLN
5	Av	267	LEU
5	Av	308	MET
5	Av	310	ASN
5	Av	312	VAL
5	Av	318	THR
5	Av	320	LYS
5	Av	322	LYS
5	Av	332	GLU
5	Av	340	ASP
5	Av	359	MET
5	Av	374	ARG
5	Av	380	ILE
5	Av	382	GLN
5	Av	384	GLN
5	Av	397	THR
5	Av	398	ARG
5	Av	423	LYS
5	Av	441	ILE

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Mol	Chain	Res	Type
5	Av	445	LYS
5	Av	450	ARG
5	Av	451	ASP
5	Av	462	ILE
5	Av	483	HIS
5	Av	488	LYS
5	Av	495	ASP
5	Av	499	GLU
5	Av	503	LYS
5	Av	506	GLU
6	Aw	67	GLU
6	Aw	68	ILE
6	Aw	84	THR
6	Aw	95	VAL
6	Aw	106	LEU
6	Aw	107	ILE
6	Aw	114	VAL
6	Aw	124	VAL
6	Aw	131	TYR
6	Aw	136	VAL
6	Aw	145	HIS
6	Aw	183	GLN
6	Aw	234	GLU
6	Aw	243	THR
6	Aw	257	GLN
6	Aw	260	GLU
6	Aw	344	ARG
6	Aw	389	VAL
6	Aw	398	GLN
6	Aw	430	LYS
6	Aw	436	VAL
6	Aw	448	ILE
6	Aw	459	LEU
6	Aw	470	VAL
6	Aw	503	ILE
5	Ax	5	VAL
5	Ax	28	LEU
5	Ax	62	PHE
5	Ax	72	THR
5	Ax	85	ASN
5	Ax	94	GLU
5	Ax	101	VAL

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Mol	Chain	Res	Type
5	Ax	103	GLU
5	Ax	104	ASP
5	Ax	107	GLU
5	Ax	121	LYS
5	Ax	166	ARG
5	Ax	181	GLN
5	Ax	189	ILE
5	Ax	204	GLU
5	Ax	205	TYR
5	Ax	207	ILE
5	Ax	209	ASP
5	Ax	213	GLU
5	Ax	228	ILE
5	Ax	267	LEU
5	Ax	291	ASN
5	Ax	309	LYS
5	Ax	310	ASN
5	Ax	340	ASP
5	Ax	342	LYS
5	Ax	359	MET
5	Ax	374	ARG
5	Ax	379	ARG
5	Ax	380	ILE
5	Ax	382	GLN
5	Ax	384	GLN
5	Ax	390	PHE
5	Ax	397	THR
5	Ax	401	LEU
5	Ax	405	LYS
5	Ax	410	LEU
5	Ax	432	ILE
5	Ax	441	ILE
5	Ax	442	ASN
5	Ax	444	ILE
5	Ax	456	GLU
5	Ax	459	GLU
5	Ax	462	ILE
5	Ax	479	LYS
5	Ax	488	LYS
5	Ax	496	GLU
6	Ay	67	GLU
6	Ay	84	THR

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Mol	Chain	Res	Type
6	Ay	88	VAL
6	Ay	95	VAL
6	Ay	107	ILE
6	Ay	112	CYS
6	Ay	114	VAL
6	Ay	136	VAL
6	Ay	187	THR
6	Ay	235	LEU
6	Ay	237	GLU
6	Ay	243	THR
6	Ay	257	GLN
6	Ay	264	ARG
6	Ay	278	LEU
6	Ay	322	THR
6	Ay	376	ILE
6	Ay	377	ILE
6	Ay	389	VAL
6	Ay	432	ASP
6	Ay	436	VAL
6	Ay	444	MET
6	Ay	448	ILE
6	Ay	482	ASN
6	Ay	486	GLU
6	Ay	496	ILE
6	Ay	500	MET
6	Ay	503	ILE
6	Ay	518	VAL
6	Az	95	VAL
6	Az	111	ILE
6	Az	130	VAL
6	Az	131	TYR
6	Az	147	MET
6	Az	208	LEU
6	Az	234	GLU
6	Az	259	ILE
6	Az	278	LEU
6	Az	289	GLU
6	Az	324	THR
6	Az	331	VAL
6	Az	360	GLU
6	Az	380	ARG
6	Az	395	TYR

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Mol	Chain	Res	Type
6	Az	416	VAL
6	Az	430	LYS
6	Az	432	ASP
6	Az	436	VAL
6	Az	450	TYR
6	Az	479	ILE
6	Az	516	VAL
6	Az	518	VAL
2	B1	14	THR
2	B1	32	LYS
2	B1	42	LYS
2	B1	47	GLU
2	B1	50	LEU
2	B1	66	MET
2	B1	85	ASP
2	B1	109	ASN
2	B1	112	VAL
2	B1	124	ASP
2	B1	130	LYS
2	B1	139	LYS
2	B1	149	LYS
2	B1	166	ASN
2	B1	186	LYS
2	B1	188	ILE
2	B1	197	GLU
2	B1	199	GLU
2	B1	215	LYS
2	B1	219	ILE
2	B1	252	LEU
2	B1	271	TYR
2	B1	290	VAL
2	B1	298	LYS
2	B1	299	ARG
2	B1	303	ASP
2	B1	313	ASP
2	B1	344	LEU
2	B1	366	GLU
2	B1	385	THR
2	B1	398	ASP
2	B1	404	LEU
2	B1	412	GLU
2	B1	415	VAL

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Mol	Chain	Res	Type
2	B1	417	ILE
2	B1	437	THR
2	B1	443	ILE
2	B1	453	ASN
2	B1	456	TYR
2	B1	484	VAL
2	B1	495	ASN
2	B1	536	TYR
2	B1	542	THR
2	B1	550	ARG
2	B1	552	ASN
2	B1	569	LYS
2	B1	606	VAL
2	B1	612	ASN
2	B1	617	VAL
2	B1	629	ILE
2	B1	633	ARG
2	B1	636	ASN
2	B2	8	ILE
2	B2	14	THR
2	B2	24	THR
2	B2	32	LYS
2	B2	47	GLU
2	B2	49	ASP
2	B2	66	MET
2	B2	81	VAL
2	B2	130	LYS
2	B2	139	LYS
2	B2	149	LYS
2	B2	151	ILE
2	B2	182	ILE
2	B2	195	LEU
2	B2	202	GLU
2	B2	209	ASP
2	B2	219	ILE
2	B2	271	TYR
2	B2	298	LYS
2	B2	303	ASP
2	B2	383	LEU
2	B2	390	GLN
2	B2	398	ASP
2	B2	404	LEU

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Mol	Chain	Res	Type
2	B2	415	VAL
2	B2	417	ILE
2	B2	430	ARG
2	B2	441	PHE
2	B2	467	TRP
2	B2	470	LEU
2	B2	477	LEU
2	B2	503	ILE
2	B2	519	GLN
2	B2	536	TYR
2	B2	540	THR
2	B2	553	VAL
2	B2	586	THR
2	B2	606	VAL
2	B2	617	VAL
2	B2	629	ILE
2	B2	643	VAL
2	B2	650	ASP
2	B2	655	THR
2	B3	14	THR
2	B3	24	THR
2	B3	32	LYS
2	B3	41	ILE
2	B3	42	LYS
2	B3	49	ASP
2	B3	66	MET
2	B3	72	LEU
2	B3	85	ASP
2	B3	91	ASN
2	B3	112	VAL
2	B3	115	LYS
2	B3	119	LYS
2	B3	130	LYS
2	B3	139	LYS
2	B3	141	LYS
2	B3	149	LYS
2	B3	166	ASN
2	B3	171	ILE
2	B3	183	THR
2	B3	195	LEU
2	B3	202	GLU
2	B3	215	LYS

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Mol	Chain	Res	Type
2	B3	219	ILE
2	B3	239	VAL
2	B3	271	TYR
2	B3	298	LYS
2	B3	302	LYS
2	B3	303	ASP
2	B3	417	ILE
2	B3	430	ARG
2	B3	431	THR
2	B3	456	TYR
2	B3	503	ILE
2	B3	505	LEU
2	B3	534	VAL
2	B3	535	LEU
2	B3	536	TYR
2	B3	539	LYS
2	B3	540	THR
2	B3	542	THR
2	B3	550	ARG
2	B3	572	LEU
2	B3	590	GLN
2	B3	602	TYR
2	B3	606	VAL
2	B3	629	ILE
2	B3	650	ASP
2	B3	651	PHE
2	B3	655	THR
2	B4	14	THR
2	B4	32	LYS
2	B4	42	LYS
2	B4	47	GLU
2	B4	66	MET
2	B4	76	ASN
2	B4	81	VAL
2	B4	88	THR
2	B4	115	LYS
2	B4	130	LYS
2	B4	133	GLU
2	B4	139	LYS
2	B4	149	LYS
2	B4	186	LYS
2	B4	189	THR

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Mol	Chain	Res	Type
2	B4	202	GLU
2	B4	205	MET
2	B4	219	ILE
2	B4	252	LEU
2	B4	268	VAL
2	B4	290	VAL
2	B4	298	LYS
2	B4	302	LYS
2	B4	303	ASP
2	B4	312	ASP
2	B4	344	LEU
2	B4	417	ILE
2	B4	426	LEU
2	B4	430	ARG
2	B4	455	LYS
2	B4	456	TYR
2	B4	482	ASP
2	B4	484	VAL
2	B4	503	ILE
2	B4	505	LEU
2	B4	535	LEU
2	B4	536	TYR
2	B4	538	ASP
2	B4	542	THR
2	B4	550	ARG
2	B4	570	TYR
2	B4	606	VAL
2	B4	617	VAL
2	B4	629	ILE
2	B4	654	LEU
2	B5	14	THR
2	B5	32	LYS
2	B5	66	MET
2	B5	72	LEU
2	B5	81	VAL
2	B5	88	THR
2	B5	112	VAL
2	B5	130	LYS
2	B5	139	LYS
2	B5	143	ILE
2	B5	149	LYS
2	B5	151	ILE

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Mol	Chain	Res	Type
2	B5	195	LEU
2	B5	199	GLU
2	B5	202	GLU
2	B5	205	MET
2	B5	219	ILE
2	B5	298	LYS
2	B5	303	ASP
2	B5	317	LYS
2	B5	326	THR
2	B5	383	LEU
2	B5	398	ASP
2	B5	404	LEU
2	B5	411	ARG
2	B5	417	ILE
2	B5	430	ARG
2	B5	453	ASN
2	B5	460	LYS
2	B5	499	ILE
2	B5	503	ILE
2	B5	535	LEU
2	B5	536	TYR
2	B5	540	THR
2	B5	542	THR
2	B5	550	ARG
2	B5	556	LEU
2	B5	560	LEU
2	B5	572	LEU
2	B5	574	GLU
2	B5	606	VAL
2	B5	617	VAL
2	B5	629	ILE
2	B5	633	ARG
2	B6	14	THR
2	B6	32	LYS
2	B6	66	MET
2	B6	76	ASN
2	B6	130	LYS
2	B6	149	LYS
2	B6	151	ILE
2	B6	166	ASN
2	B6	171	ILE
2	B6	186	LYS

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Mol	Chain	Res	Type
2	B6	188	ILE
2	B6	194	LEU
2	B6	195	LEU
2	B6	199	GLU
2	B6	205	MET
2	B6	219	ILE
2	B6	229	GLU
2	B6	230	LEU
2	B6	260	THR
2	B6	290	VAL
2	B6	298	LYS
2	B6	303	ASP
2	B6	344	LEU
2	B6	370	VAL
2	B6	371	GLN
2	B6	385	THR
2	B6	404	LEU
2	B6	417	ILE
2	B6	450	ILE
2	B6	453	ASN
2	B6	455	LYS
2	B6	467	TRP
2	B6	483	ASN
2	B6	484	VAL
2	B6	496	ARG
2	B6	518	TYR
2	B6	523	ASN
2	B6	535	LEU
2	B6	536	TYR
2	B6	553	VAL
2	B6	556	LEU
2	B6	574	GLU
2	B6	575	LEU
2	B6	606	VAL
2	B6	621	ASN
2	B6	629	ILE
2	B6	650	ASP
2	B6	655	THR
2	B7	10	LEU
2	B7	32	LYS
2	B7	49	ASP
2	B7	60	GLU

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Mol	Chain	Res	Type
2	B7	66	MET
2	B7	130	LYS
2	B7	131	ILE
2	B7	139	LYS
2	B7	149	LYS
2	B7	170	GLU
2	B7	178	LEU
2	B7	186	LYS
2	B7	202	GLU
2	B7	219	ILE
2	B7	239	VAL
2	B7	271	TYR
2	B7	290	VAL
2	B7	297	THR
2	B7	298	LYS
2	B7	302	LYS
2	B7	303	ASP
2	B7	340	LEU
2	B7	365	ARG
2	B7	383	LEU
2	B7	398	ASP
2	B7	404	LEU
2	B7	415	VAL
2	B7	417	ILE
2	B7	426	LEU
2	B7	439	ASN
2	B7	453	ASN
2	B7	461	TYR
2	B7	484	VAL
2	B7	518	TYR
2	B7	523	ASN
2	B7	535	LEU
2	B7	536	TYR
2	B7	538	ASP
2	B7	540	THR
2	B7	542	THR
2	B7	552	ASN
2	B7	556	LEU
2	B7	569	LYS
2	B7	605	ARG
2	B7	621	ASN
2	B7	653	GLU

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Mol	Chain	Res	Type
2	B7	654	LEU
5	BA	6	LEU
5	BA	21	LYS
5	BA	28	LEU
5	BA	29	VAL
5	BA	31	ILE
5	BA	36	LEU
5	BA	65	TYR
5	BA	69	MET
5	BA	70	LYS
5	BA	89	ASP
5	BA	134	LEU
5	BA	165	LYS
5	BA	168	LYS
5	BA	172	LYS
5	BA	189	ILE
5	BA	191	GLU
5	BA	199	VAL
5	BA	200	LYS
5	BA	207	ILE
5	BA	209	ASP
5	BA	212	HIS
5	BA	226	THR
5	BA	232	LYS
5	BA	242	LEU
5	BA	249	ASN
5	BA	267	LEU
5	BA	291	ASN
5	BA	301	MET
5	BA	308	MET
5	BA	312	VAL
5	BA	313	VAL
5	BA	320	LYS
5	BA	340	ASP
5	BA	347	VAL
5	BA	359	MET
5	BA	380	ILE
5	BA	382	GLN
5	BA	397	THR
5	BA	401	LEU
5	BA	423	LYS
5	BA	441	ILE

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Mol	Chain	Res	Type
5	BA	454	PHE
5	BA	462	ILE
5	BA	477	ILE
5	BA	487	MET
5	BA	499	GLU
5	BA	505	ILE
5	BB	6	LEU
5	BB	31	ILE
5	BB	43	PHE
5	BB	49	GLU
5	BB	69	MET
5	BB	85	ASN
5	BB	106	THR
5	BB	107	GLU
5	BB	115	LYS
5	BB	166	ARG
5	BB	168	LYS
5	BB	171	ILE
5	BB	174	LEU
5	BB	185	VAL
5	BB	187	GLU
5	BB	204	GLU
5	BB	223	GLU
5	BB	226	THR
5	BB	228	ILE
5	BB	229	LYS
5	BB	243	VAL
5	BB	245	CYS
5	BB	263	GLN
5	BB	267	LEU
5	BB	276	ILE
5	BB	308	MET
5	BB	310	ASN
5	BB	321	ILE
5	BB	342	LYS
5	BB	359	MET
5	BB	380	ILE
5	BB	396	ILE
5	BB	398	ARG
5	BB	410	LEU
5	BB	413	LYS
5	BB	428	LEU

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Mol	Chain	Res	Type
5	BB	432	ILE
5	BB	470	LEU
5	BB	479	LYS
5	BB	485	THR
5	BB	496	GLU
5	BB	504	GLN
7	BC	12	LEU
7	BC	28	GLU
7	BC	43	GLU
7	BC	53	LEU
7	BC	54	ASN
7	BC	64	ASP
7	BC	81	VAL
7	BC	87	ILE
7	BC	92	ILE
7	BC	114	MET
7	BC	126	ASN
7	BC	144	LEU
7	BC	168	GLU
7	BC	188	THR
7	BC	192	ILE
7	BC	193	ASP
7	BC	206	THR
7	BC	210	GLN
7	BC	229	ARG
7	BC	238	LYS
7	BC	258	LEU
7	BC	282	LEU
7	BC	297	LEU
7	BC	299	LEU
5	BD	6	LEU
5	BD	9	PHE
5	BD	15	MET
5	BD	24	GLU
5	BD	28	LEU
5	BD	31	ILE
5	BD	35	LYS
5	BD	41	ARG
5	BD	42	GLU
5	BD	54	TYR
5	BD	85	ASN
5	BD	87	GLU

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Mol	Chain	Res	Type
5	BD	101	VAL
5	BD	103	GLU
5	BD	108	VAL
5	BD	121	LYS
5	BD	124	ASN
5	BD	134	LEU
5	BD	142	LYS
5	BD	165	LYS
5	BD	166	ARG
5	BD	169	GLU
5	BD	171	ILE
5	BD	181	GLN
5	BD	182	VAL
5	BD	185	VAL
5	BD	205	TYR
5	BD	226	THR
5	BD	228	ILE
5	BD	229	LYS
5	BD	239	HIS
5	BD	248	LYS
5	BD	267	LEU
5	BD	291	ASN
5	BD	306	ASN
5	BD	310	ASN
5	BD	312	VAL
5	BD	313	VAL
5	BD	327	ASN
5	BD	330	MET
5	BD	332	GLU
5	BD	342	LYS
5	BD	347	VAL
5	BD	380	ILE
5	BD	384	GLN
5	BD	388	VAL
5	BD	398	ARG
5	BD	401	LEU
5	BD	409	GLU
5	BD	423	LYS
5	BD	433	THR
5	BD	434	GLU
5	BD	441	ILE
5	BD	444	ILE

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Mol	Chain	Res	Type
5	BD	445	LYS
5	BD	459	GLU
5	BD	462	ILE
5	BD	477	ILE
5	BD	479	LYS
5	BD	487	MET
5	BD	497	GLU
5	BD	499	GLU
5	BD	510	LYS
7	BE	12	LEU
7	BE	28	GLU
7	BE	29	LEU
7	BE	33	GLN
7	BE	36	ASP
7	BE	51	ASP
7	BE	66	GLU
7	BE	87	ILE
7	BE	90	THR
7	BE	92	ILE
7	BE	148	MET
7	BE	162	TRP
7	BE	177	GLN
7	BE	189	LYS
7	BE	192	ILE
7	BE	207	VAL
7	BE	237	VAL
7	BE	258	LEU
7	BE	280	GLN
7	BE	297	LEU
7	BE	299	LEU
5	BF	14	LYS
5	BF	28	LEU
5	BF	29	VAL
5	BF	42	GLU
5	BF	60	THR
5	BF	70	LYS
5	BF	72	THR
5	BF	89	ASP
5	BF	101	VAL
5	BF	107	GLU
5	BF	108	VAL
5	BF	121	LYS

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Mol	Chain	Res	Type
5	BF	171	ILE
5	BF	181	GLN
5	BF	182	VAL
5	BF	185	VAL
5	BF	189	ILE
5	BF	205	TYR
5	BF	212	HIS
5	BF	213	GLU
5	BF	227	LYS
5	BF	229	LYS
5	BF	242	LEU
5	BF	243	VAL
5	BF	251	ILE
5	BF	267	LEU
5	BF	310	ASN
5	BF	313	VAL
5	BF	320	LYS
5	BF	321	ILE
5	BF	342	LYS
5	BF	347	VAL
5	BF	349	THR
5	BF	359	MET
5	BF	375	VAL
5	BF	379	ARG
5	BF	383	ASP
5	BF	394	THR
5	BF	401	LEU
5	BF	409	GLU
5	BF	423	LYS
5	BF	432	ILE
5	BF	441	ILE
5	BF	444	ILE
5	BF	445	LYS
5	BF	457	LEU
5	BF	462	ILE
5	BF	479	LYS
5	BG	14	LYS
5	BG	28	LEU
5	BG	29	VAL
5	BG	60	THR
5	BG	65	TYR
5	BG	101	VAL

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Mol	Chain	Res	Type
5	BG	108	VAL
5	BG	121	LYS
5	BG	134	LEU
5	BG	156	ILE
5	BG	166	ARG
5	BG	171	ILE
5	BG	189	ILE
5	BG	190	THR
5	BG	207	ILE
5	BG	210	THR
5	BG	212	HIS
5	BG	228	ILE
5	BG	229	LYS
5	BG	248	LYS
5	BG	249	ASN
5	BG	256	ARG
5	BG	259	LYS
5	BG	267	LEU
5	BG	291	ASN
5	BG	310	ASN
5	BG	320	LYS
5	BG	321	ILE
5	BG	340	ASP
5	BG	342	LYS
5	BG	359	MET
5	BG	380	ILE
5	BG	384	GLN
5	BG	390	PHE
5	BG	397	THR
5	BG	401	LEU
5	BG	409	GLU
5	BG	413	LYS
5	BG	432	ILE
5	BG	433	THR
5	BG	441	ILE
5	BG	444	ILE
5	BG	445	LYS
5	BG	454	PHE
5	BG	457	LEU
5	BG	462	ILE
5	BG	470	LEU
5	BG	487	MET

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Mol	Chain	Res	Type
5	BG	495	ASP
5	BG	496	GLU
5	BG	497	GLU
5	BH	6	LEU
5	BH	8	LEU
5	BH	14	LYS
5	BH	18	ARG
5	BH	28	LEU
5	BH	41	ARG
5	BH	42	GLU
5	BH	54	TYR
5	BH	60	THR
5	BH	66	GLU
5	BH	69	MET
5	BH	81	ASN
5	BH	87	GLU
5	BH	101	VAL
5	BH	107	GLU
5	BH	109	VAL
5	BH	117	LYS
5	BH	134	LEU
5	BH	153	ASP
5	BH	166	ARG
5	BH	171	ILE
5	BH	181	GLN
5	BH	185	VAL
5	BH	189	ILE
5	BH	199	VAL
5	BH	204	GLU
5	BH	226	THR
5	BH	229	LYS
5	BH	250	ILE
5	BH	256	ARG
5	BH	267	LEU
5	BH	288	ASP
5	BH	291	ASN
5	BH	310	ASN
5	BH	321	ILE
5	BH	342	LYS
5	BH	379	ARG
5	BH	397	THR
5	BH	398	ARG

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Mol	Chain	Res	Type
5	BH	401	LEU
5	BH	405	LYS
5	BH	433	THR
5	BH	434	GLU
5	BH	441	ILE
5	BH	457	LEU
5	BH	459	GLU
5	BH	462	ILE
5	BH	470	LEU
5	BH	479	LYS
5	BH	497	GLU
5	BH	499	GLU
5	BH	501	GLU
5	BH	503	LYS
6	BI	95	VAL
6	BI	107	ILE
6	BI	110	ASP
6	BI	134	ASP
6	BI	174	VAL
6	BI	208	LEU
6	BI	237	GLU
6	BI	249	GLU
6	BI	273	GLU
6	BI	324	THR
6	BI	331	VAL
6	BI	393	ILE
6	BI	398	GLN
6	BI	406	THR
6	BI	448	ILE
6	BI	449	TYR
6	BI	450	TYR
6	BI	471	MET
6	BI	496	ILE
6	BJ	89	THR
6	BJ	95	VAL
6	BJ	99	VAL
6	BJ	106	LEU
6	BJ	118	ASN
6	BJ	124	VAL
6	BJ	131	TYR
6	BJ	162	LYS
6	BJ	185	THR

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Mol	Chain	Res	Type
6	BJ	187	THR
6	BJ	188	VAL
6	BJ	247	TRP
6	BJ	273	GLU
6	BJ	282	HIS
6	BJ	331	VAL
6	BJ	356	GLN
6	BJ	376	ILE
6	BJ	377	ILE
6	BJ	417	LEU
6	BJ	435	THR
6	BJ	444	MET
6	BJ	516	VAL
6	BK	107	ILE
6	BK	110	ASP
6	BK	124	VAL
6	BK	174	VAL
6	BK	185	THR
6	BK	254	ILE
6	BK	255	ASP
6	BK	278	LEU
6	BK	289	GLU
6	BK	303	ASN
6	BK	316	VAL
6	BK	432	ASP
6	BK	436	VAL
6	BK	445	ASP
6	BK	450	TYR
6	BK	504	LEU
7	BL	12	LEU
7	BL	32	ASP
7	BL	53	LEU
7	BL	87	ILE
7	BL	92	ILE
7	BL	95	ILE
7	BL	101	ASN
7	BL	103	THR
7	BL	112	LEU
7	BL	118	ASN
7	BL	127	ARG
7	BL	128	PHE
7	BL	144	LEU

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Mol	Chain	Res	Type
7	BL	148	MET
7	BL	158	ILE
7	BL	165	SER
7	BL	170	LEU
7	BL	181	LEU
7	BL	192	ILE
7	BL	215	LEU
7	BL	237	VAL
7	BL	238	LYS
7	BL	252	THR
7	BL	258	LEU
7	BL	265	ARG
7	BL	266	HIS
7	BL	297	LEU
7	BL	299	LEU
7	BL	300	LEU
6	BM	110	ASP
6	BM	124	VAL
6	BM	166	LEU
6	BM	174	VAL
6	BM	187	THR
6	BM	223	GLU
6	BM	259	ILE
6	BM	303	ASN
6	BM	316	VAL
6	BM	328	LYS
6	BM	358	ASP
6	BM	398	GLN
6	BM	432	ASP
6	BM	436	VAL
6	BM	439	LYS
6	BM	486	GLU
6	BM	496	ILE
11	BN	4	THR
11	BN	41	ILE
11	BN	64	GLN
11	BO	37	ASP
11	BO	41	ILE
11	BO	45	HIS
11	BO	48	THR
11	BP	41	ILE
11	BP	45	HIS

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Mol	Chain	Res	Type
11	BP	64	GLN
11	BQ	41	ILE
11	BQ	64	GLN
11	BQ	74	ASP
11	BR	41	ILE
11	BR	65	ARG
11	BR	72	ASN
11	BS	41	ILE
11	BS	72	ASN
11	BS	77	LYS
11	BT	8	VAL
11	BT	30	VAL
11	BT	41	ILE
11	BT	64	GLN
11	BU	30	VAL
11	BU	41	ILE
11	BV	41	ILE
11	BV	45	HIS
11	BV	72	ASN
11	BW	8	VAL
11	BW	41	ILE
11	BW	64	GLN
3	BX	6	VAL
3	BX	17	ARG
3	BX	19	ASN
3	BX	23	VAL
3	BX	25	ILE
3	BX	45	ILE
3	BX	48	LYS
3	BX	56	ARG
3	BX	57	LYS
3	BX	58	ILE
3	BX	112	ILE
3	BX	113	VAL
3	BX	118	ARG
3	BX	124	THR
3	BX	127	ILE
3	BX	137	VAL
3	BX	143	ASP
3	BX	148	ASN
3	BX	150	ILE
3	BY	4	ASP

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Mol	Chain	Res	Type
3	BY	17	ARG
3	BY	19	ASN
3	BY	23	VAL
3	BY	45	ILE
3	BY	49	ILE
3	BY	51	VAL
3	BY	56	ARG
3	BY	57	LYS
3	BY	58	ILE
3	BY	112	ILE
3	BY	113	VAL
3	BY	127	ILE
3	BY	137	VAL
3	BY	143	ASP
3	BY	149	GLU
3	BY	163	GLU
3	BZ	1	MET
3	BZ	4	ASP
3	BZ	7	THR
3	BZ	14	ASP
3	BZ	19	ASN
3	BZ	37	LYS
3	BZ	51	VAL
3	BZ	57	LYS
3	BZ	58	ILE
3	BZ	68	ASP
3	BZ	80	ASP
3	BZ	98	GLU
3	BZ	112	ILE
3	BZ	113	VAL
3	BZ	124	THR
3	BZ	125	LYS
3	BZ	127	ILE
3	BZ	137	VAL
3	BZ	156	THR
3	BZ	163	GLU
3	Ba	6	VAL
3	Ba	19	ASN
3	Ba	23	VAL
3	Ba	37	LYS
3	Ba	45	ILE
3	Ba	48	LYS

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Mol	Chain	Res	Type
3	Ba	49	ILE
3	Ba	56	ARG
3	Ba	57	LYS
3	Ba	58	ILE
3	Ba	72	THR
3	Ba	112	ILE
3	Ba	113	VAL
3	Ba	124	THR
3	Ba	127	ILE
3	Ba	137	VAL
3	Ba	159	LEU
3	Bb	1	MET
3	Bb	17	ARG
3	Bb	25	ILE
3	Bb	48	LYS
3	Bb	49	ILE
3	Bb	54	MET
3	Bb	57	LYS
3	Bb	58	ILE
3	Bb	89	GLN
3	Bb	112	ILE
3	Bb	113	VAL
3	Bb	127	ILE
3	Bb	136	ASN
3	Bb	137	VAL
3	Bb	150	ILE
3	Bc	23	VAL
3	Bc	37	LYS
3	Bc	45	ILE
3	Bc	57	LYS
3	Bc	58	ILE
3	Bc	112	ILE
3	Bc	113	VAL
3	Bc	124	THR
3	Bc	127	ILE
3	Bc	137	VAL
3	Bc	145	ASP
3	Bc	150	ILE
3	Bd	6	VAL
3	Bd	19	ASN
3	Bd	23	VAL
3	Bd	45	ILE

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Mol	Chain	Res	Type
3	Bd	49	ILE
3	Bd	56	ARG
3	Bd	57	LYS
3	Bd	58	ILE
3	Bd	106	GLU
3	Bd	112	ILE
3	Bd	113	VAL
3	Bd	127	ILE
3	Bd	128	GLU
3	Bd	136	ASN
3	Bd	137	VAL
3	Bd	141	GLN
3	Bd	143	ASP
3	Be	6	VAL
3	Be	7	THR
3	Be	17	ARG
3	Be	37	LYS
3	Be	49	ILE
3	Be	54	MET
3	Be	57	LYS
3	Be	58	ILE
3	Be	95	GLN
3	Be	112	ILE
3	Be	113	VAL
3	Be	127	ILE
3	Be	137	VAL
3	Be	143	ASP
3	Be	150	ILE
3	Be	156	THR
3	Bf	17	ARG
3	Bf	25	ILE
3	Bf	31	ASN
3	Bf	41	LEU
3	Bf	47	GLU
3	Bf	48	LYS
3	Bf	57	LYS
3	Bf	58	ILE
3	Bf	68	ASP
3	Bf	85	PHE
3	Bf	106	GLU
3	Bf	112	ILE
3	Bf	113	VAL

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Mol	Chain	Res	Type
3	Bf	127	ILE
3	Bf	132	LEU
3	Bf	137	VAL
3	Bf	142	LEU
3	Bf	143	ASP
3	Bf	149	GLU
3	Bf	150	ILE
3	Bg	11	GLU
3	Bg	14	ASP
3	Bg	19	ASN
3	Bg	23	VAL
3	Bg	31	ASN
3	Bg	37	LYS
3	Bg	45	ILE
3	Bg	48	LYS
3	Bg	49	ILE
3	Bg	56	ARG
3	Bg	57	LYS
3	Bg	58	ILE
3	Bg	64	ARG
3	Bg	113	VAL
3	Bg	124	THR
3	Bg	127	ILE
3	Bg	128	GLU
3	Bg	135	THR
3	Bg	137	VAL
3	Bg	150	ILE
3	Bh	14	ASP
3	Bh	17	ARG
3	Bh	19	ASN
3	Bh	37	LYS
3	Bh	45	ILE
3	Bh	48	LYS
3	Bh	49	ILE
3	Bh	54	MET
3	Bh	57	LYS
3	Bh	58	ILE
3	Bh	59	ASN
3	Bh	68	ASP
3	Bh	95	GLN
3	Bh	112	ILE
3	Bh	113	VAL

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Mol	Chain	Res	Type
3	Bh	124	THR
3	Bh	127	ILE
3	Bh	137	VAL
3	Bh	143	ASP
3	Bh	150	ILE
3	Bh	154	GLU
3	Bi	14	ASP
3	Bi	17	ARG
3	Bi	19	ASN
3	Bi	37	LYS
3	Bi	57	LYS
3	Bi	58	ILE
3	Bi	64	ARG
3	Bi	91	ILE
3	Bi	98	GLU
3	Bi	113	VAL
3	Bi	127	ILE
3	Bi	128	GLU
3	Bi	149	GLU
3	Bi	150	ILE
3	Bi	156	THR
3	Bj	5	ASP
3	Bj	17	ARG
3	Bj	19	ASN
3	Bj	23	VAL
3	Bj	37	LYS
3	Bj	49	ILE
3	Bj	51	VAL
3	Bj	56	ARG
3	Bj	57	LYS
3	Bj	58	ILE
3	Bj	80	ASP
3	Bj	100	THR
3	Bj	112	ILE
3	Bj	113	VAL
3	Bj	118	ARG
3	Bj	121	LYS
3	Bj	127	ILE
3	Bj	137	VAL
3	Bj	149	GLU
3	Bj	150	ILE
3	Bj	163	GLU

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Mol	Chain	Res	Type
3	Bk	6	VAL
3	Bk	17	ARG
3	Bk	19	ASN
3	Bk	23	VAL
3	Bk	45	ILE
3	Bk	48	LYS
3	Bk	49	ILE
3	Bk	51	VAL
3	Bk	56	ARG
3	Bk	57	LYS
3	Bk	58	ILE
3	Bk	64	ARG
3	Bk	85	PHE
3	Bk	89	GLN
3	Bk	112	ILE
3	Bk	113	VAL
3	Bk	127	ILE
3	Bk	136	ASN
3	Bk	137	VAL
3	Bk	150	ILE
3	Bl	6	VAL
3	Bl	17	ARG
3	Bl	19	ASN
3	Bl	23	VAL
3	Bl	37	LYS
3	Bl	45	ILE
3	Bl	47	GLU
3	Bl	49	ILE
3	Bl	57	LYS
3	Bl	58	ILE
3	Bl	68	ASP
3	Bl	80	ASP
3	Bl	85	PHE
3	Bl	100	THR
3	Bl	112	ILE
3	Bl	114	ARG
3	Bl	127	ILE
3	Bl	129	ILE
3	Bl	142	LEU
3	Bl	143	ASP
3	Bl	150	ILE
3	Bm	17	ARG

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Mol	Chain	Res	Type
3	Bm	19	ASN
3	Bm	23	VAL
3	Bm	37	LYS
3	Bm	45	ILE
3	Bm	49	ILE
3	Bm	56	ARG
3	Bm	57	LYS
3	Bm	58	ILE
3	Bm	76	ASP
3	Bm	112	ILE
3	Bm	113	VAL
3	Bm	124	THR
3	Bm	127	ILE
3	Bm	135	THR
3	Bm	136	ASN
3	Bm	141	GLN
3	Bn	17	ARG
3	Bn	37	LYS
3	Bn	45	ILE
3	Bn	49	ILE
3	Bn	57	LYS
3	Bn	58	ILE
3	Bn	113	VAL
3	Bn	124	THR
3	Bn	127	ILE
3	Bn	129	ILE
3	Bn	137	VAL
3	Bn	157	LEU
3	Bo	14	ASP
3	Bo	17	ARG
3	Bo	19	ASN
3	Bo	37	LYS
3	Bo	45	ILE
3	Bo	49	ILE
3	Bo	57	LYS
3	Bo	58	ILE
3	Bo	95	GLN
3	Bo	103	LYS
3	Bo	112	ILE
3	Bo	113	VAL
3	Bo	127	ILE
3	Bo	137	VAL

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Mol	Chain	Res	Type
3	Bo	142	LEU
3	Bo	143	ASP
3	Bo	150	ILE
2	Bp	32	LYS
2	Bp	66	MET
2	Bp	80	VAL
2	Bp	81	VAL
2	Bp	88	THR
2	Bp	91	ASN
2	Bp	130	LYS
2	Bp	139	LYS
2	Bp	149	LYS
2	Bp	186	LYS
2	Bp	188	ILE
2	Bp	195	LEU
2	Bp	205	MET
2	Bp	215	LYS
2	Bp	219	ILE
2	Bp	239	VAL
2	Bp	260	THR
2	Bp	266	LYS
2	Bp	275	THR
2	Bp	297	THR
2	Bp	298	LYS
2	Bp	302	LYS
2	Bp	303	ASP
2	Bp	365	ARG
2	Bp	383	LEU
2	Bp	385	THR
2	Bp	390	GLN
2	Bp	404	LEU
2	Bp	417	ILE
2	Bp	443	ILE
2	Bp	535	LEU
2	Bp	536	TYR
2	Bp	550	ARG
2	Bp	574	GLU
2	Bp	592	LEU
2	Bp	606	VAL
2	Bq	42	LYS
2	Bq	66	MET
2	Bq	85	ASP

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Mol	Chain	Res	Type
2	Bq	86	ARG
2	Bq	112	VAL
2	Bq	130	LYS
2	Bq	139	LYS
2	Bq	166	ASN
2	Bq	170	GLU
2	Bq	178	LEU
2	Bq	186	LYS
2	Bq	190	ASP
2	Bq	199	GLU
2	Bq	202	GLU
2	Bq	205	MET
2	Bq	215	LYS
2	Bq	219	ILE
2	Bq	229	GLU
2	Bq	252	LEU
2	Bq	287	ASP
2	Bq	290	VAL
2	Bq	298	LYS
2	Bq	303	ASP
2	Bq	368	VAL
2	Bq	383	LEU
2	Bq	390	GLN
2	Bq	398	ASP
2	Bq	412	GLU
2	Bq	417	ILE
2	Bq	424	ASP
2	Bq	430	ARG
2	Bq	431	THR
2	Bq	437	THR
2	Bq	438	ASP
2	Bq	453	ASN
2	Bq	467	TRP
2	Bq	484	VAL
2	Bq	495	ASN
2	Bq	501	ASN
2	Bq	526	THR
2	Bq	536	TYR
2	Bq	538	ASP
2	Bq	542	THR
2	Bq	550	ARG
2	Bq	564	ILE

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Mol	Chain	Res	Type
2	Bq	606	VAL
2	Bq	619	ASP
2	Bq	629	ILE
2	Bq	655	THR
2	Br	14	THR
2	Br	32	LYS
2	Br	47	GLU
2	Br	66	MET
2	Br	81	VAL
2	Br	85	ASP
2	Br	88	THR
2	Br	112	VAL
2	Br	130	LYS
2	Br	139	LYS
2	Br	149	LYS
2	Br	166	ASN
2	Br	168	THR
2	Br	171	ILE
2	Br	178	LEU
2	Br	197	GLU
2	Br	202	GLU
2	Br	205	MET
2	Br	209	ASP
2	Br	219	ILE
2	Br	230	LEU
2	Br	283	VAL
2	Br	287	ASP
2	Br	290	VAL
2	Br	297	THR
2	Br	298	LYS
2	Br	303	ASP
2	Br	344	LEU
2	Br	349	GLU
2	Br	383	LEU
2	Br	398	ASP
2	Br	417	ILE
2	Br	430	ARG
2	Br	443	ILE
2	Br	453	ASN
2	Br	455	LYS
2	Br	487	THR
2	Br	503	ILE

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Mol	Chain	Res	Type
2	Br	510	ARG
2	Br	518	TYR
2	Br	536	TYR
2	Br	540	THR
2	Br	542	THR
2	Br	564	ILE
2	Br	572	LEU
2	Br	577	ASN
2	Br	606	VAL
2	Br	607	VAL
2	Br	641	ASN
2	Br	651	PHE
2	Bs	13	THR
2	Bs	14	THR
2	Bs	32	LYS
2	Bs	66	MET
2	Bs	80	VAL
2	Bs	81	VAL
2	Bs	85	ASP
2	Bs	88	THR
2	Bs	91	ASN
2	Bs	112	VAL
2	Bs	114	ASP
2	Bs	119	LYS
2	Bs	130	LYS
2	Bs	139	LYS
2	Bs	149	LYS
2	Bs	166	ASN
2	Bs	168	THR
2	Bs	170	GLU
2	Bs	171	ILE
2	Bs	183	THR
2	Bs	186	LYS
2	Bs	188	ILE
2	Bs	195	LEU
2	Bs	199	GLU
2	Bs	202	GLU
2	Bs	219	ILE
2	Bs	290	VAL
2	Bs	298	LYS
2	Bs	303	ASP
2	Bs	313	ASP

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Mol	Chain	Res	Type
2	Bs	344	LEU
2	Bs	383	LEU
2	Bs	390	GLN
2	Bs	417	ILE
2	Bs	450	ILE
2	Bs	455	LYS
2	Bs	536	TYR
2	Bs	576	ASN
2	Bs	598	LEU
2	Bs	606	VAL
2	Bt	8	ILE
2	Bt	14	THR
2	Bt	32	LYS
2	Bt	42	LYS
2	Bt	47	GLU
2	Bt	49	ASP
2	Bt	66	MET
2	Bt	72	LEU
2	Bt	81	VAL
2	Bt	91	ASN
2	Bt	112	VAL
2	Bt	139	LYS
2	Bt	141	LYS
2	Bt	149	LYS
2	Bt	166	ASN
2	Bt	170	GLU
2	Bt	171	ILE
2	Bt	194	LEU
2	Bt	202	GLU
2	Bt	215	LYS
2	Bt	219	ILE
2	Bt	239	VAL
2	Bt	251	LEU
2	Bt	271	TYR
2	Bt	290	VAL
2	Bt	297	THR
2	Bt	298	LYS
2	Bt	303	ASP
2	Bt	344	LEU
2	Bt	383	LEU
2	Bt	404	LEU
2	Bt	417	ILE

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Mol	Chain	Res	Type
2	Bt	443	ILE
2	Bt	455	LYS
2	Bt	456	TYR
2	Bt	460	LYS
2	Bt	467	TRP
2	Bt	468	VAL
2	Bt	483	ASN
2	Bt	484	VAL
2	Bt	505	LEU
2	Bt	523	ASN
2	Bt	536	TYR
2	Bt	550	ARG
2	Bt	569	LYS
2	Bt	572	LEU
2	Bt	574	GLU
2	Bt	596	LYS
2	Bt	606	VAL
2	Bt	612	ASN
2	Bt	617	VAL
2	Bt	629	ILE
2	Bu	32	LYS
2	Bu	42	LYS
2	Bu	60	GLU
2	Bu	66	MET
2	Bu	88	THR
2	Bu	112	VAL
2	Bu	128	GLU
2	Bu	139	LYS
2	Bu	149	LYS
2	Bu	171	ILE
2	Bu	183	THR
2	Bu	186	LYS
2	Bu	194	LEU
2	Bu	197	GLU
2	Bu	199	GLU
2	Bu	202	GLU
2	Bu	209	ASP
2	Bu	219	ILE
2	Bu	229	GLU
2	Bu	281	ILE
2	Bu	282	ILE
2	Bu	298	LYS

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Mol	Chain	Res	Type
2	Bu	302	LYS
2	Bu	303	ASP
2	Bu	312	ASP
2	Bu	313	ASP
2	Bu	344	LEU
2	Bu	349	GLU
2	Bu	350	VAL
2	Bu	381	GLU
2	Bu	385	THR
2	Bu	404	LEU
2	Bu	411	ARG
2	Bu	417	ILE
2	Bu	443	ILE
2	Bu	450	ILE
2	Bu	455	LYS
2	Bu	456	TYR
2	Bu	464	VAL
2	Bu	468	VAL
2	Bu	482	ASP
2	Bu	484	VAL
2	Bu	505	LEU
2	Bu	536	TYR
2	Bu	538	ASP
2	Bu	553	VAL
2	Bu	564	ILE
2	Bu	569	LYS
2	Bu	606	VAL
2	Bu	617	VAL
2	Bu	641	ASN
2	Bu	651	PHE
2	Bu	655	THR
2	Bv	14	THR
2	Bv	32	LYS
2	Bv	42	LYS
2	Bv	58	THR
2	Bv	66	MET
2	Bv	72	LEU
2	Bv	81	VAL
2	Bv	84	VAL
2	Bv	88	THR
2	Bv	130	LYS
2	Bv	139	LYS

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Mol	Chain	Res	Type
2	Bv	141	LYS
2	Bv	149	LYS
2	Bv	166	ASN
2	Bv	194	LEU
2	Bv	195	LEU
2	Bv	199	GLU
2	Bv	202	GLU
2	Bv	205	MET
2	Bv	215	LYS
2	Bv	219	ILE
2	Bv	229	GLU
2	Bv	276	ASP
2	Bv	290	VAL
2	Bv	297	THR
2	Bv	298	LYS
2	Bv	303	ASP
2	Bv	326	THR
2	Bv	344	LEU
2	Bv	378	CYS
2	Bv	382	SER
2	Bv	384	GLU
2	Bv	404	LEU
2	Bv	426	LEU
2	Bv	430	ARG
2	Bv	443	ILE
2	Bv	467	TRP
2	Bv	473	ASP
2	Bv	526	THR
2	Bv	536	TYR
2	Bv	549	ASP
2	Bv	569	LYS
2	Bv	572	LEU
2	Bv	592	LEU
2	Bv	602	TYR
2	Bv	606	VAL
2	Bv	617	VAL
2	Bv	629	ILE
2	Bv	650	ASP
2	Bv	655	THR
2	Bw	32	LYS
2	Bw	49	ASP
2	Bw	66	MET

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Mol	Chain	Res	Type
2	Bw	81	VAL
2	Bw	88	THR
2	Bw	91	ASN
2	Bw	112	VAL
2	Bw	130	LYS
2	Bw	132	THR
2	Bw	139	LYS
2	Bw	149	LYS
2	Bw	171	ILE
2	Bw	178	LEU
2	Bw	186	LYS
2	Bw	195	LEU
2	Bw	199	GLU
2	Bw	202	GLU
2	Bw	205	MET
2	Bw	215	LYS
2	Bw	219	ILE
2	Bw	230	LEU
2	Bw	268	VAL
2	Bw	282	ILE
2	Bw	286	ASN
2	Bw	297	THR
2	Bw	298	LYS
2	Bw	303	ASP
2	Bw	368	VAL
2	Bw	378	CYS
2	Bw	383	LEU
2	Bw	398	ASP
2	Bw	404	LEU
2	Bw	417	ILE
2	Bw	421	ARG
2	Bw	443	ILE
2	Bw	450	ILE
2	Bw	453	ASN
2	Bw	455	LYS
2	Bw	468	VAL
2	Bw	470	LEU
2	Bw	496	ARG
2	Bw	503	ILE
2	Bw	505	LEU
2	Bw	517	LEU
2	Bw	518	TYR

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Mol	Chain	Res	Type
2	Bw	535	LEU
2	Bw	536	TYR
2	Bw	538	ASP
2	Bw	540	THR
2	Bw	542	THR
2	Bw	552	ASN
2	Bw	553	VAL
2	Bw	564	ILE
2	Bw	606	VAL
2	Bw	650	ASP
2	Bw	653	GLU
2	Bx	32	LYS
2	Bx	47	GLU
2	Bx	66	MET
2	Bx	76	ASN
2	Bx	88	THR
2	Bx	112	VAL
2	Bx	130	LYS
2	Bx	139	LYS
2	Bx	141	LYS
2	Bx	149	LYS
2	Bx	170	GLU
2	Bx	171	ILE
2	Bx	186	LYS
2	Bx	195	LEU
2	Bx	199	GLU
2	Bx	202	GLU
2	Bx	209	ASP
2	Bx	215	LYS
2	Bx	219	ILE
2	Bx	230	LEU
2	Bx	290	VAL
2	Bx	298	LYS
2	Bx	303	ASP
2	Bx	317	LYS
2	Bx	344	LEU
2	Bx	365	ARG
2	Bx	385	THR
2	Bx	398	ASP
2	Bx	404	LEU
2	Bx	415	VAL
2	Bx	417	ILE

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Mol	Chain	Res	Type
2	Bx	437	THR
2	Bx	453	ASN
2	Bx	456	TYR
2	Bx	495	ASN
2	Bx	523	ASN
2	Bx	536	TYR
2	Bx	542	THR
2	Bx	551	ILE
2	Bx	556	LEU
2	Bx	564	ILE
2	Bx	592	LEU
2	Bx	606	VAL
2	Bx	617	VAL
2	Bx	643	VAL
2	By	14	THR
2	By	32	LYS
2	By	49	ASP
2	By	66	MET
2	By	80	VAL
2	By	81	VAL
2	By	88	THR
2	By	91	ASN
2	By	112	VAL
2	By	130	LYS
2	By	139	LYS
2	By	149	LYS
2	By	171	ILE
2	By	186	LYS
2	By	195	LEU
2	By	215	LYS
2	By	219	ILE
2	By	229	GLU
2	By	282	ILE
2	By	287	ASP
2	By	298	LYS
2	By	302	LYS
2	By	303	ASP
2	By	304	ILE
2	By	344	LEU
2	By	354	ASP
2	By	382	SER
2	By	383	LEU

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Mol	Chain	Res	Type
2	By	398	ASP
2	By	404	LEU
2	By	417	ILE
2	By	426	LEU
2	By	430	ARG
2	By	439	ASN
2	By	467	TRP
2	By	495	ASN
2	By	503	ILE
2	By	526	THR
2	By	536	TYR
2	By	542	THR
2	By	552	ASN
2	By	564	ILE
2	By	573	PHE
2	By	580	THR
2	By	596	LYS
2	By	602	TYR
2	By	606	VAL
2	By	612	ASN
2	By	629	ILE
2	By	655	THR
2	Bz	14	THR
2	Bz	32	LYS
2	Bz	49	ASP
2	Bz	81	VAL
2	Bz	88	THR
2	Bz	112	VAL
2	Bz	128	GLU
2	Bz	130	LYS
2	Bz	139	LYS
2	Bz	149	LYS
2	Bz	166	ASN
2	Bz	171	ILE
2	Bz	178	LEU
2	Bz	186	LYS
2	Bz	202	GLU
2	Bz	219	ILE
2	Bz	298	LYS
2	Bz	303	ASP
2	Bz	344	LEU
2	Bz	368	VAL

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Mol	Chain	Res	Type
2	Bz	383	LEU
2	Bz	404	LEU
2	Bz	413	THR
2	Bz	417	ILE
2	Bz	443	ILE
2	Bz	453	ASN
2	Bz	455	LYS
2	Bz	467	TRP
2	Bz	473	ASP
2	Bz	477	LEU
2	Bz	487	THR
2	Bz	523	ASN
2	Bz	535	LEU
2	Bz	536	TYR
2	Bz	550	ARG
2	Bz	564	ILE
2	Bz	569	LYS
2	Bz	592	LEU
2	Bz	606	VAL
2	Bz	629	ILE
2	Bz	655	THR
4	D	59	ASP
4	D	77	LYS
4	E	26	LYS
4	F	62	ILE
4	K	3	ILE
4	O	62	ILE
4	P	36	THR
4	Q	2	ASP
4	Q	62	ILE
4	S	76	ILE
4	T	7	ASP
4	V	7	ASP
4	V	60	LYS
4	W	35	ASP
4	W	55	VAL
4	X	59	ASP
4	X	62	ILE
4	X	65	LEU
4	Y	59	ASP
4	Y	65	LEU
4	Z	17	GLU

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Mol	Chain	Res	Type
4	c	36	THR
4	f	36	THR
4	f	65	LEU
4	g	62	ILE
4	h	3	ILE
4	h	59	ASP
1	k	8	LEU
1	k	11	LYS
1	k	13	GLU
1	k	15	ARG
1	k	27	LEU
1	k	51	ILE
1	k	71	ILE
1	k	75	ASP
1	k	78	ASN
1	k	90	LEU
1	k	91	ASN
1	k	110	VAL
1	k	115	THR
1	k	116	LEU
1	k	127	VAL
1	k	128	ASN
1	k	136	ASP
1	k	146	LEU
1	k	169	ILE
1	k	175	ILE
1	k	201	LEU
1	k	202	ASN
1	k	214	ASN
1	k	216	ASP
1	k	232	VAL
1	k	233	GLU
1	k	237	VAL
1	k	245	PHE
1	l	8	LEU
1	l	11	LYS
1	l	15	ARG
1	l	34	ASN
1	l	46	LEU
1	l	75	ASP
1	l	78	ASN
1	l	94	GLU

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Mol	Chain	Res	Type
1	l	110	VAL
1	l	116	LEU
1	l	121	ASN
1	l	127	VAL
1	l	128	ASN
1	l	146	LEU
1	l	158	PHE
1	l	163	GLN
1	l	166	ILE
1	l	169	ILE
1	l	175	ILE
1	l	179	GLU
1	l	213	ILE
1	l	216	ASP
1	l	233	GLU
1	l	239	ASN
1	m	11	LYS
1	m	15	ARG
1	m	27	LEU
1	m	46	LEU
1	m	75	ASP
1	m	90	LEU
1	m	94	GLU
1	m	108	MET
1	m	110	VAL
1	m	115	THR
1	m	118	ILE
1	m	127	VAL
1	m	128	ASN
1	m	146	LEU
1	m	155	TYR
1	m	166	ILE
1	m	169	ILE
1	m	182	ASN
1	m	198	GLU
1	m	213	ILE
1	m	216	ASP
1	n	11	LYS
1	n	13	GLU
1	n	15	ARG
1	n	27	LEU
1	n	46	LEU

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Mol	Chain	Res	Type
1	n	75	ASP
1	n	78	ASN
1	n	90	LEU
1	n	91	ASN
1	n	94	GLU
1	n	110	VAL
1	n	115	THR
1	n	127	VAL
1	n	128	ASN
1	n	134	GLU
1	n	146	LEU
1	n	155	TYR
1	n	163	GLN
1	n	205	ARG
1	n	233	GLU
1	n	245	PHE
3	o	4	ASP
3	o	10	PHE
3	o	23	VAL
3	o	26	SER
3	o	41	LEU
3	o	45	ILE
3	o	48	LYS
3	o	49	ILE
3	o	51	VAL
3	o	55	ASN
3	o	56	ARG
3	o	57	LYS
3	o	58	ILE
3	o	80	ASP
3	o	97	ASN
3	o	112	ILE
3	o	113	VAL
3	o	127	ILE
3	o	137	VAL
3	o	141	GLN
3	o	150	ILE
1	p	11	LYS
1	p	13	GLU
1	p	15	ARG
1	p	26	ILE
1	p	27	LEU

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Mol	Chain	Res	Type
1	p	46	LEU
1	p	51	ILE
1	p	56	VAL
1	p	75	ASP
1	p	90	LEU
1	p	94	GLU
1	p	110	VAL
1	p	118	ILE
1	p	127	VAL
1	p	128	ASN
1	p	136	ASP
1	p	146	LEU
1	p	156	ASP
1	p	166	ILE
1	p	202	ASN
1	p	216	ASP
1	p	245	PHE
8	q	20	LEU
8	q	24	ILE
8	q	26	ILE
8	q	35	LYS
8	q	53	LEU
8	q	62	GLN
8	q	76	ASN
8	q	88	PHE
8	q	98	LEU
8	q	114	ILE
8	q	163	ILE
8	q	164	LYS
8	q	173	ASP
8	q	198	MET
8	q	227	GLU
8	q	229	VAL
8	q	230	PHE
8	q	236	GLU
8	q	238	VAL
8	q	247	TRP
8	r	20	LEU
8	r	35	LYS
8	r	50	MET
8	r	53	LEU
8	r	59	ILE

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Mol	Chain	Res	Type
8	r	60	ASN
8	r	76	ASN
8	r	79	LEU
8	r	98	LEU
8	r	114	ILE
8	r	162	ASP
8	r	163	ILE
8	r	164	LYS
8	r	172	ILE
8	r	179	ASP
8	r	198	MET
8	r	211	THR
8	r	214	THR
8	r	222	ASP
8	r	223	LEU
8	r	227	GLU
8	r	238	VAL
8	r	243	ASP
8	r	263	THR
8	s	7	ASN
8	s	16	LEU
8	s	20	LEU
8	s	50	MET
8	s	72	LEU
8	s	76	ASN
8	s	77	LEU
8	s	93	LEU
8	s	98	LEU
8	s	114	ILE
8	s	120	LEU
8	s	147	THR
8	s	163	ILE
8	s	172	ILE
8	s	198	MET
8	s	204	ASP
8	s	208	LEU
8	s	211	THR
8	s	214	THR
8	s	215	ASP
8	s	222	ASP
8	s	229	VAL
8	s	230	PHE

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Mol	Chain	Res	Type
8	s	238	VAL
8	s	247	TRP
8	s	256	THR
8	s	258	ASN
8	s	259	VAL
8	t	20	LEU
8	t	30	LEU
8	t	31	GLU
8	t	35	LYS
8	t	50	MET
8	t	62	GLN
8	t	72	LEU
8	t	76	ASN
8	t	93	LEU
8	t	114	ILE
8	t	152	GLN
8	t	163	ILE
8	t	176	ILE
8	t	187	GLU
8	t	208	LEU
8	t	211	THR
8	t	223	LEU
8	t	227	GLU
8	t	229	VAL
8	t	236	GLU
8	t	238	VAL
8	t	241	ASP
8	t	259	VAL
8	u	1	MET
8	u	51	MET
8	u	60	ASN
8	u	62	GLN
8	u	79	LEU
8	u	85	ASN
8	u	93	LEU
8	u	100	LYS
8	u	114	ILE
8	u	116	MET
8	u	121	SER
8	u	127	GLU
8	u	147	THR
8	u	163	ILE

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Mol	Chain	Res	Type
8	u	172	ILE
8	u	198	MET
8	u	208	LEU
8	u	215	ASP
8	u	230	PHE
8	u	236	GLU
8	u	238	VAL
9	v	5	LEU
9	v	47	THR
9	v	64	VAL
9	v	68	TYR
9	v	76	ILE
9	v	94	THR
9	v	156	THR
9	v	167	GLU
9	w	5	LEU
9	w	10	ASN
9	w	19	VAL
9	w	64	VAL
9	w	68	TYR
9	w	114	LEU
9	w	129	ASN
9	w	140	GLU
9	w	175	GLU
9	x	5	LEU
9	x	11	GLN
9	x	19	VAL
9	x	25	ASN
9	x	47	THR
9	x	64	VAL
9	x	68	TYR
9	x	129	ASN
9	x	138	LEU
9	x	156	THR
9	x	172	ILE
9	y	5	LEU
9	y	47	THR
9	y	64	VAL
9	y	65	THR
9	y	66	PHE
9	y	68	TYR
9	y	76	ILE

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Mol	Chain	Res	Type
9	y	79	GLU
9	y	129	ASN
9	y	140	GLU
9	y	156	THR
9	y	167	GLU
9	z	5	LEU
9	z	10	ASN
9	z	23	HIS
9	z	64	VAL
9	z	68	TYR
9	z	77	VAL
9	z	81	LEU
9	z	102	ASN
9	z	129	ASN
9	z	138	LEU
9	z	172	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (468) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	91	ASN
1	0	192	ASN
1	0	206	ASN
2	1	200	ASN
2	1	308	ASN
2	1	523	ASN
2	1	641	ASN
2	2	73	GLN
2	2	211	GLN
2	2	329	ASN
2	2	392	HIS
2	2	501	ASN
2	2	552	ASN
2	2	613	ASN
2	3	52	ASN
2	3	308	ASN
2	3	328	GLN
2	3	439	ASN
2	3	523	ASN
2	3	612	ASN
2	4	34	GLN
2	4	440	ASN

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Mol	Chain	Res	Type
2	4	511	GLN
2	4	523	ASN
2	4	590	GLN
2	4	641	ASN
2	5	16	GLN
2	5	22	ASN
2	5	56	GLN
2	5	76	ASN
2	5	286	ASN
2	5	453	ASN
2	5	486	GLN
2	5	523	ASN
3	6	31	ASN
3	8	59	ASN
3	8	75	ASN
3	8	151	GLN
4	A	19	GLN
4	A	61	ASN
5	A0	81	ASN
5	A0	310	ASN
5	A0	504	GLN
5	A1	327	ASN
5	A1	367	GLN
5	A2	85	ASN
5	A2	112	ASN
5	A2	124	ASN
5	A2	181	GLN
5	A2	183	GLN
5	A2	212	HIS
5	A2	323	ASN
5	A2	358	ASN
5	A2	411	GLN
5	A2	483	HIS
5	A2	500	GLN
5	A3	48	ASN
5	A3	159	HIS
5	A3	181	GLN
5	A3	263	GLN
5	A3	300	HIS
6	A4	75	ASN
6	A4	191	GLN
6	A4	265	GLN

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Mol	Chain	Res	Type
6	A4	303	ASN
6	A5	303	ASN
7	A6	39	GLN
7	A6	152	GLN
7	A6	175	ASN
6	A7	83	GLN
6	A8	398	GLN
6	A9	115	GLN
6	A9	236	GLN
6	A9	315	GLN
6	A9	505	ASN
3	AA	55	ASN
8	AB	95	GLN
2	AD	21	ASN
2	AD	40	GLN
2	AD	453	ASN
2	AD	563	ASN
2	AD	590	GLN
2	AD	613	ASN
3	AE	83	GLN
3	AF	75	ASN
3	AG	22	GLN
3	AG	95	GLN
3	AG	115	GLN
3	AH	89	GLN
3	AH	148	ASN
3	AI	147	ASN
2	AK	98	ASN
2	AK	144	ASN
2	AK	213	ASN
2	AK	274	GLN
2	AK	552	ASN
2	AK	613	ASN
2	AL	274	GLN
2	AM	213	ASN
2	AM	439	ASN
2	AM	552	ASN
2	AN	286	ASN
2	AN	519	GLN
2	AN	523	ASN
2	AN	612	ASN
2	AO	211	GLN

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Mol	Chain	Res	Type
2	AO	329	ASN
2	AO	465	ASN
2	AO	495	ASN
2	AO	621	ASN
2	AP	486	GLN
2	AP	519	GLN
2	AP	523	ASN
2	AP	552	ASN
10	AS	337	HIS
10	AT	299	HIS
10	AT	316	GLN
10	AT	358	ASN
10	AU	342	GLN
10	AU	354	GLN
6	AV	123	GLN
6	AV	157	GLN
6	AW	282	HIS
6	AX	183	GLN
6	AX	257	GLN
6	AX	356	GLN
6	AX	466	ASN
6	AX	497	GLN
6	AX	505	ASN
7	AY	7	GLN
7	AY	200	ASN
7	AY	239	GLN
6	AZ	105	ASN
6	AZ	115	GLN
6	AZ	171	GLN
7	Aa	49	HIS
7	Aa	91	ASN
7	Aa	167	ASN
7	Aa	175	ASN
7	Ab	91	ASN
7	Ab	143	GLN
7	Ab	167	ASN
7	Ab	177	GLN
6	Ac	282	HIS
6	Ac	356	GLN
6	Ad	171	GLN
6	Ad	195	GLN
6	Ad	356	GLN

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Mol	Chain	Res	Type
6	Ad	381	ASN
6	Ae	105	ASN
6	Ae	497	GLN
6	Af	115	GLN
6	Af	240	ASN
6	Af	315	GLN
6	Af	367	GLN
6	Ag	335	GLN
6	Ag	367	GLN
6	Ag	431	GLN
6	Ah	157	GLN
6	Ah	195	GLN
6	Ah	303	ASN
6	Ah	384	ASN
6	Ai	115	GLN
6	Ai	398	GLN
6	Ak	257	GLN
6	Ak	303	ASN
7	Al	221	ASN
7	Al	239	GLN
6	Am	115	GLN
6	Am	398	GLN
6	An	105	ASN
6	An	123	GLN
6	An	265	GLN
6	An	315	GLN
6	An	367	GLN
6	Ao	115	GLN
6	Ao	265	GLN
6	Ao	384	ASN
6	Ap	171	GLN
6	Ap	183	GLN
6	Ap	236	GLN
6	Ap	311	ASN
6	Ap	315	GLN
6	Ap	398	GLN
7	Aq	7	GLN
7	Aq	101	ASN
7	Aq	167	ASN
7	Ar	101	ASN
7	Ar	164	ASN
7	Ar	224	HIS

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Mol	Chain	Res	Type
7	Ar	239	GLN
7	As	175	ASN
7	As	200	ASN
7	As	220	ASN
7	At	39	GLN
7	At	91	ASN
6	Au	265	GLN
6	Au	356	GLN
6	Au	482	ASN
6	Au	497	GLN
5	Av	112	ASN
5	Av	124	ASN
5	Av	183	GLN
5	Av	382	GLN
5	Av	483	HIS
6	Aw	105	ASN
6	Aw	157	GLN
6	Aw	245	ASN
6	Aw	356	GLN
6	Aw	482	ASN
5	Ax	124	ASN
5	Ax	263	GLN
5	Ax	306	ASN
5	Ax	367	GLN
5	Ax	438	ASN
5	Ax	492	GLN
6	Ay	171	GLN
6	Ay	245	ASN
6	Ay	265	GLN
6	Ay	356	GLN
6	Ay	384	ASN
6	Az	72	HIS
6	Az	171	GLN
6	Az	191	GLN
6	Az	195	GLN
6	Az	240	ASN
6	Az	265	GLN
6	Az	398	GLN
2	B1	16	GLN
2	B1	274	GLN
2	B1	439	ASN
2	B1	462	ASN

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Mol	Chain	Res	Type
2	B1	511	GLN
2	B1	513	GLN
2	B1	576	ASN
2	B2	52	ASN
2	B2	98	ASN
2	B2	211	GLN
2	B2	329	ASN
2	B2	453	ASN
2	B2	498	GLN
2	B2	511	GLN
2	B3	286	ASN
2	B3	347	ASN
2	B3	453	ASN
2	B3	462	ASN
2	B3	511	GLN
2	B3	621	ASN
2	B3	636	ASN
2	B4	328	GLN
2	B4	576	ASN
2	B5	34	GLN
2	B5	70	ASN
2	B5	211	GLN
2	B5	213	ASN
2	B5	286	ASN
2	B5	329	ASN
2	B5	486	GLN
2	B5	513	GLN
2	B5	552	ASN
2	B5	576	ASN
2	B5	612	ASN
2	B6	21	ASN
2	B6	465	ASN
2	B6	486	GLN
2	B6	519	GLN
2	B6	593	GLN
2	B6	641	ASN
2	B7	98	ASN
2	B7	144	ASN
2	B7	213	ASN
2	B7	523	ASN
5	BA	23	GLN
5	BA	59	GLN

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Mol	Chain	Res	Type
5	BA	438	ASN
5	BA	492	GLN
5	BB	249	ASN
5	BB	263	GLN
5	BB	324	GLN
5	BB	326	HIS
5	BB	382	GLN
5	BB	384	GLN
5	BB	438	ASN
5	BB	442	ASN
7	BC	132	ASN
7	BC	177	GLN
7	BC	239	GLN
5	BD	249	ASN
5	BD	291	ASN
5	BD	326	HIS
5	BD	384	GLN
7	BE	7	GLN
7	BE	167	ASN
7	BE	243	ASN
5	BF	85	ASN
5	BF	310	ASN
5	BG	19	ASN
5	BG	249	ASN
5	BG	382	GLN
5	BG	492	GLN
5	BH	124	ASN
5	BH	135	ASN
5	BH	136	HIS
5	BH	183	GLN
6	BI	115	GLN
6	BJ	90	GLN
6	BJ	236	GLN
6	BK	215	GLN
6	BK	315	GLN
6	BK	482	ASN
7	BL	91	ASN
7	BL	118	ASN
7	BL	167	ASN
6	BM	115	GLN
6	BM	123	GLN
6	BM	356	GLN

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Mol	Chain	Res	Type
6	BM	398	GLN
11	BP	39	HIS
11	BP	47	GLN
11	BQ	15	GLN
11	BU	63	ASN
11	BV	64	GLN
3	BY	22	GLN
3	BZ	55	ASN
3	Ba	22	GLN
3	Ba	83	GLN
3	Bb	22	GLN
3	Bb	35	GLN
3	Bb	147	ASN
3	Bc	31	ASN
3	Bc	83	GLN
3	Bf	136	ASN
3	Bf	147	ASN
3	Bg	59	ASN
3	Bg	136	ASN
3	Bh	95	GLN
3	Bh	141	GLN
3	Bi	147	ASN
3	Bo	148	ASN
2	Bp	166	ASN
2	Bp	211	GLN
2	Bp	347	ASN
2	Bp	371	GLN
2	Bp	523	ASN
2	Bp	630	GLN
2	Bq	34	GLN
2	Bq	98	ASN
2	Bq	144	ASN
2	Bq	211	GLN
2	Bq	286	ASN
2	Bq	329	ASN
2	Bq	390	GLN
2	Bq	593	GLN
2	Bq	630	GLN
2	Br	519	GLN
2	Br	523	ASN
2	Bs	286	ASN
2	Bs	519	GLN

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Mol	Chain	Res	Type
2	Bs	552	ASN
2	Bs	593	GLN
2	Bt	286	ASN
2	Bt	428	ASN
2	Bt	523	ASN
2	Bt	621	ASN
2	Bu	428	ASN
2	Bu	513	GLN
2	Bu	523	ASN
2	Bv	76	ASN
2	Bv	274	GLN
2	Bv	511	GLN
2	Bv	519	GLN
2	Bw	98	ASN
2	Bw	211	GLN
2	Bw	329	ASN
2	Bw	425	ASN
2	Bw	439	ASN
2	Bw	495	ASN
2	Bw	576	ASN
2	Bx	70	ASN
2	Bx	200	ASN
2	Bx	211	GLN
2	Bx	523	ASN
2	Bx	552	ASN
2	Bx	563	ASN
2	By	70	ASN
2	By	278	GLN
2	By	291	GLN
2	By	347	ASN
2	By	439	ASN
2	By	457	GLN
2	Bz	52	ASN
2	Bz	98	ASN
2	Bz	144	ASN
2	Bz	211	GLN
2	Bz	390	GLN
2	Bz	401	GLN
2	Bz	576	ASN
2	Bz	641	ASN
4	C	27	ASN
4	I	73	ASN

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Mol	Chain	Res	Type
4	J	19	GLN
4	K	19	GLN
4	M	73	ASN
4	P	45	ASN
4	R	19	GLN
4	S	6	ASN
4	S	61	ASN
4	T	27	ASN
4	V	61	ASN
4	V	73	ASN
4	W	27	ASN
4	X	37	GLN
4	X	73	ASN
4	Y	19	GLN
4	a	45	ASN
4	b	45	ASN
4	f	73	ASN
4	h	6	ASN
4	i	6	ASN
4	i	37	GLN
4	j	45	ASN
4	j	73	ASN
1	k	109	GLN
1	k	188	ASN
1	l	52	GLN
1	l	78	ASN
1	l	109	GLN
1	l	126	GLN
1	l	192	ASN
1	l	206	ASN
1	m	91	ASN
1	m	182	ASN
1	m	211	HIS
1	n	34	ASN
1	n	78	ASN
1	n	91	ASN
1	n	121	ASN
1	n	163	GLN
1	n	182	ASN
1	n	192	ASN
3	o	31	ASN
3	o	95	GLN

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Mol	Chain	Res	Type
3	o	97	ASN
1	p	121	ASN
1	p	160	GLN
1	p	164	ASN
1	p	192	ASN
1	p	202	ASN
1	p	206	ASN
8	q	258	ASN
8	r	144	HIS
8	r	152	GLN
8	r	155	ASN
8	s	152	GLN
8	s	155	ASN
8	s	180	ASN
8	s	219	ASN
8	t	132	GLN
8	t	146	ASN
8	t	152	GLN
8	t	155	ASN
8	t	180	ASN
8	u	76	ASN
8	u	142	GLN
8	u	155	ASN
9	w	35	GLN
9	y	16	ASN
9	z	13	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

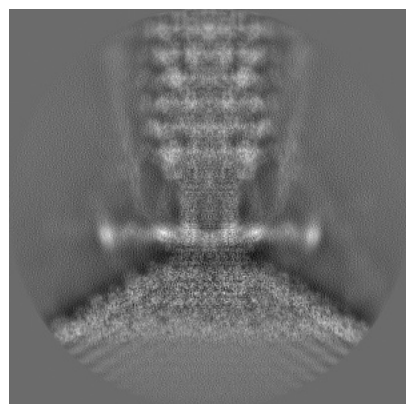
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-48458. These allow visual inspection of the internal detail of the map and identification of artifacts.

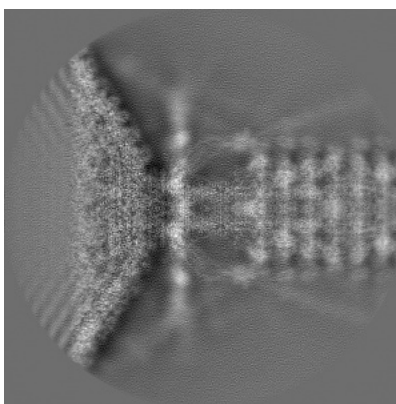
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

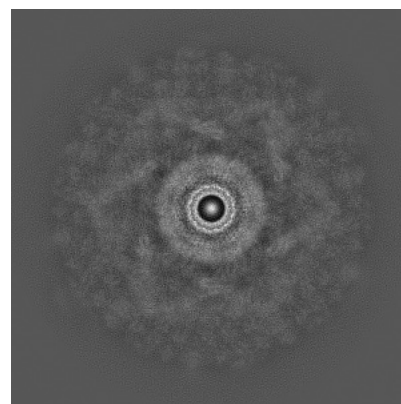
6.1.1 Primary map



X

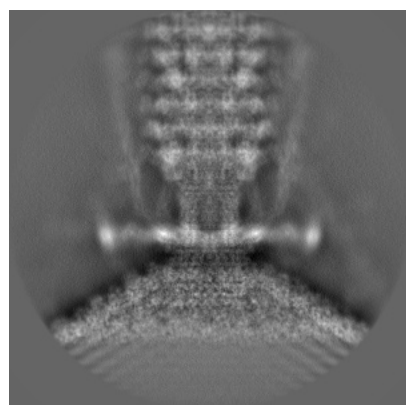


Y

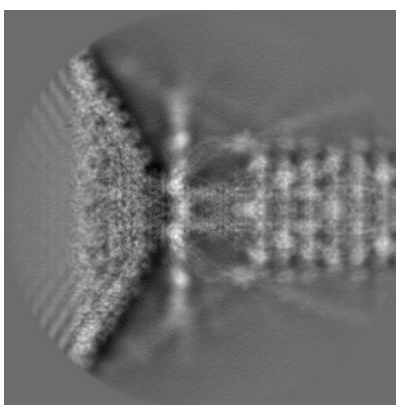


Z

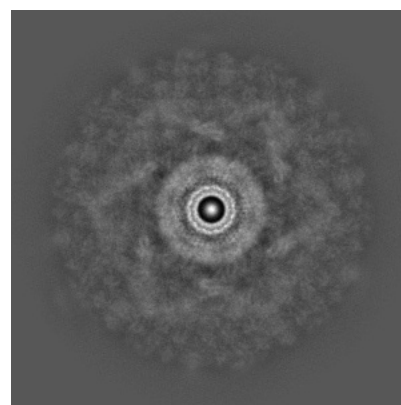
6.1.2 Raw map



X



Y

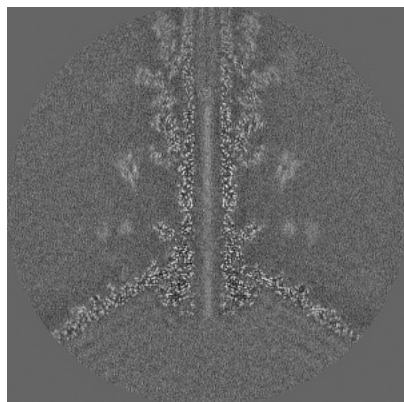


Z

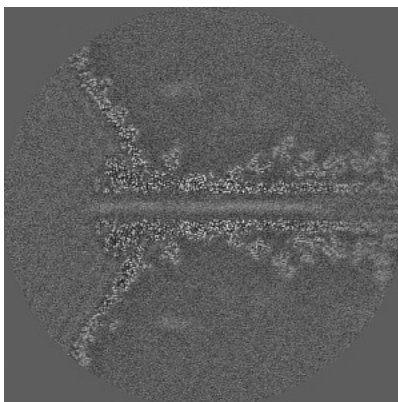
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

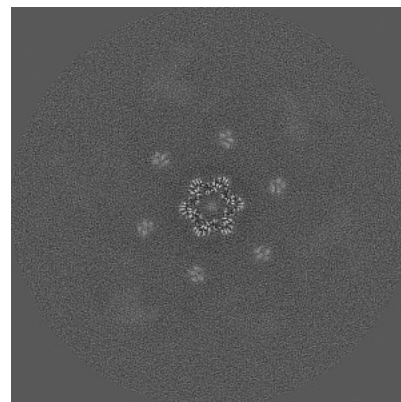
6.2.1 Primary map



X Index: 200

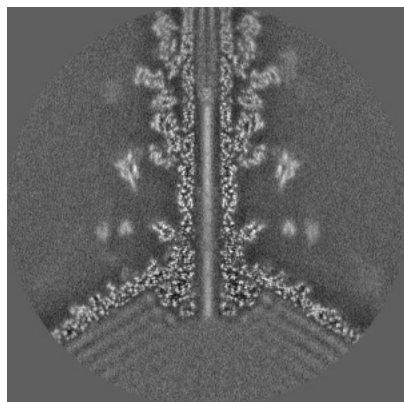


Y Index: 200

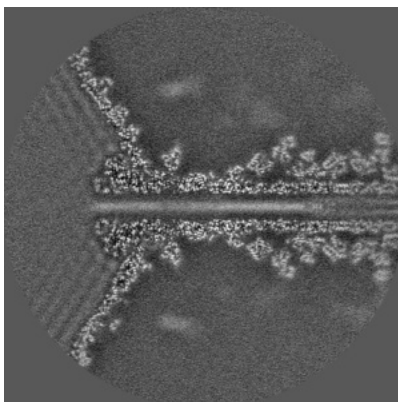


Z Index: 200

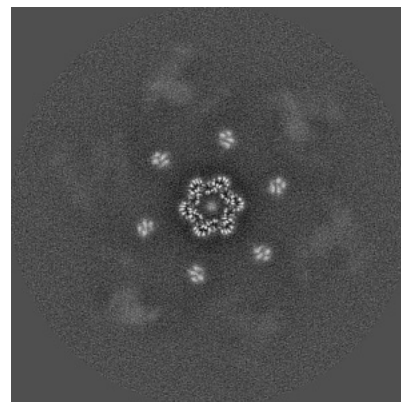
6.2.2 Raw map



X Index: 200



Y Index: 200

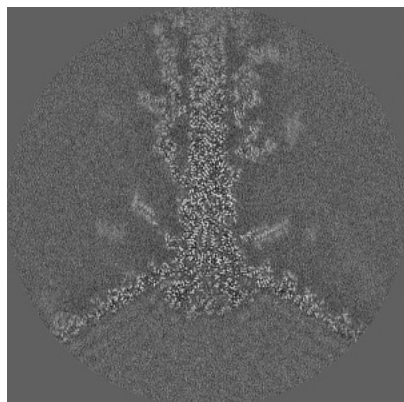


Z Index: 200

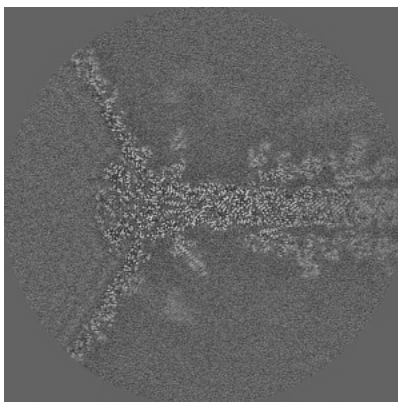
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

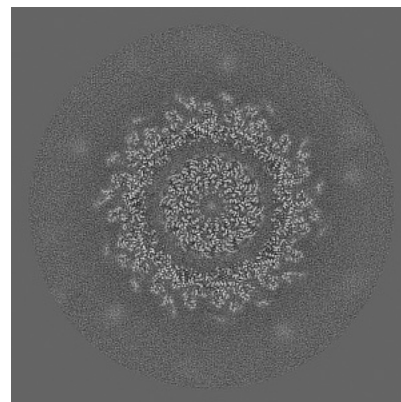
6.3.1 Primary map



X Index: 184

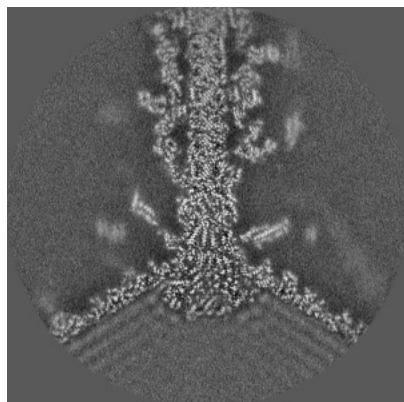


Y Index: 184

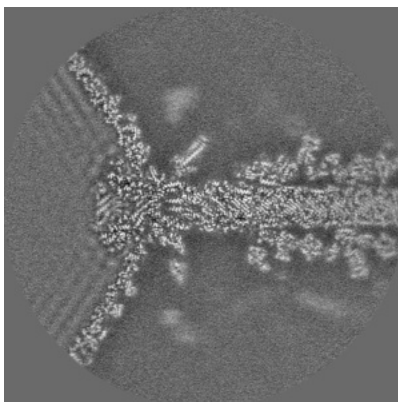


Z Index: 115

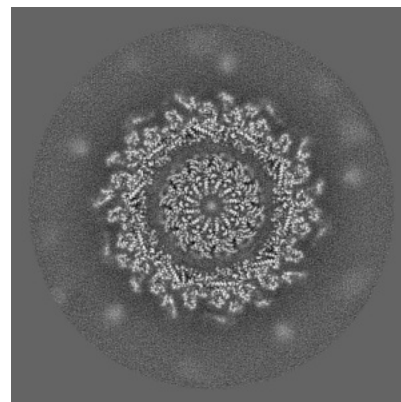
6.3.2 Raw map



X Index: 184



Y Index: 215

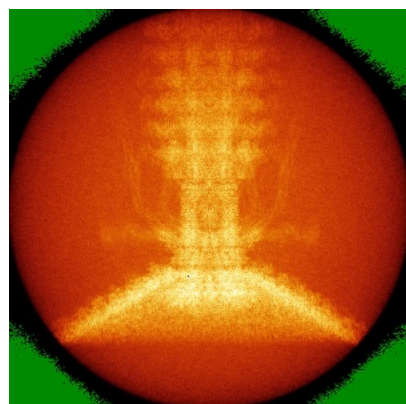


Z Index: 115

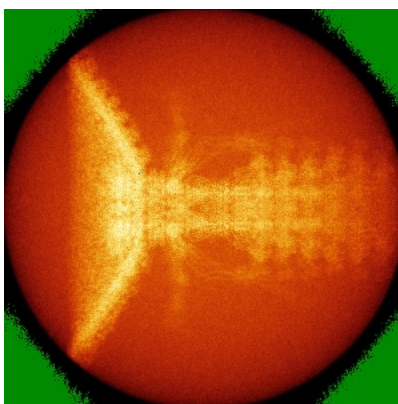
The images above show the largest variance slices of the map in three orthogonal directions.

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

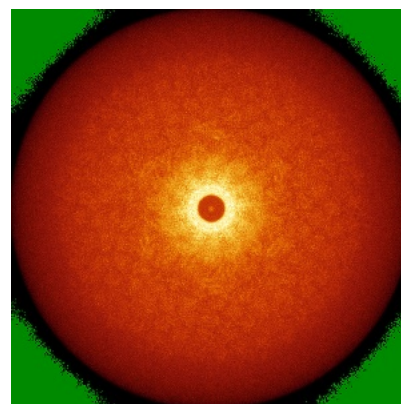
6.4.1 Primary map



X

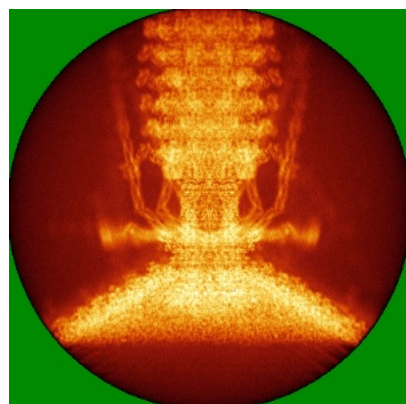


Y

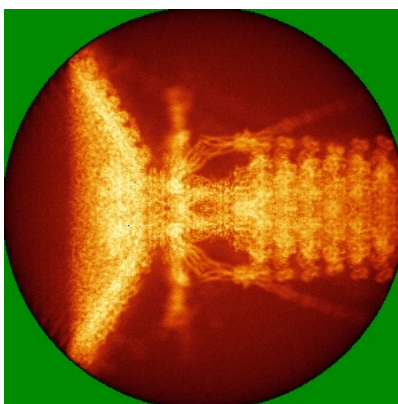


Z

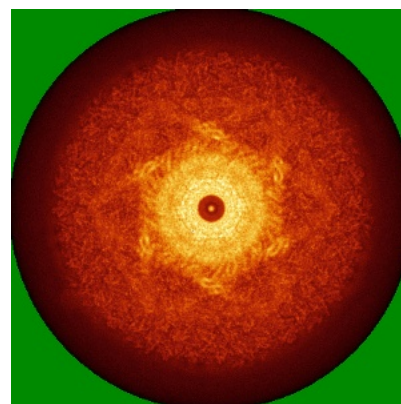
6.4.2 Raw map



X



Y



Z

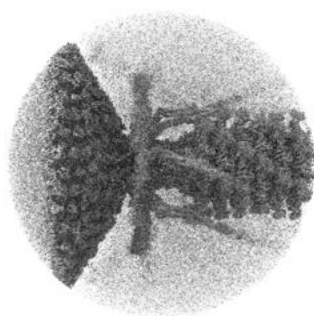
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

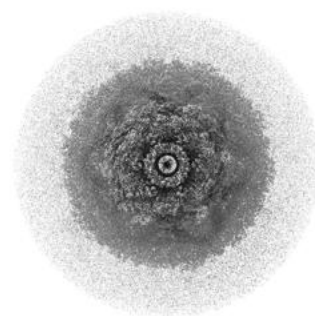
6.5.1 Primary map



X



Y



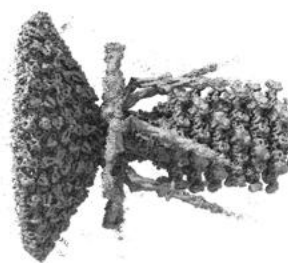
Z

The images above show the 3D surface view of the map at the recommended contour level 0.015. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

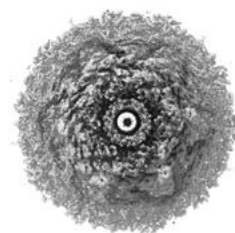
6.5.2 Raw map



X



Y



Z

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

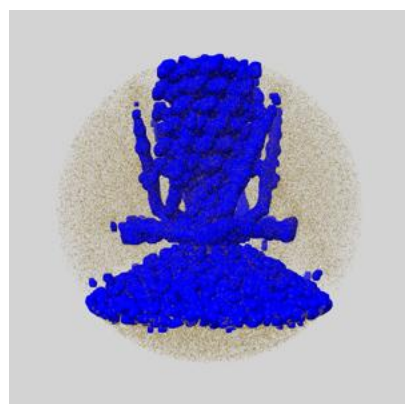
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

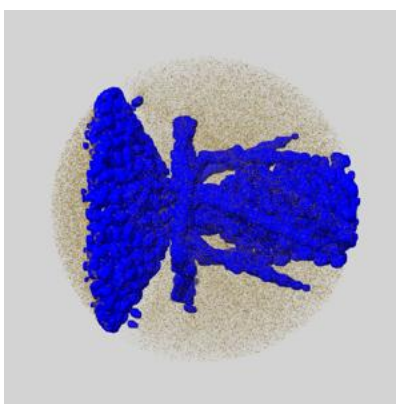
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

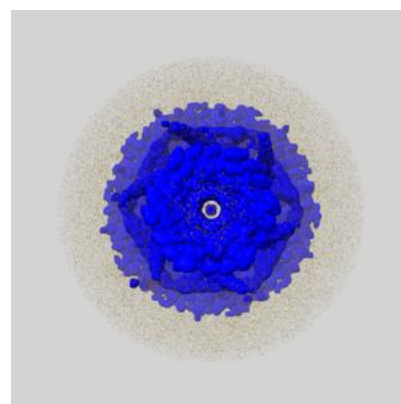
6.6.1 emd_48458_msk_1.map [i](#)



X



Y

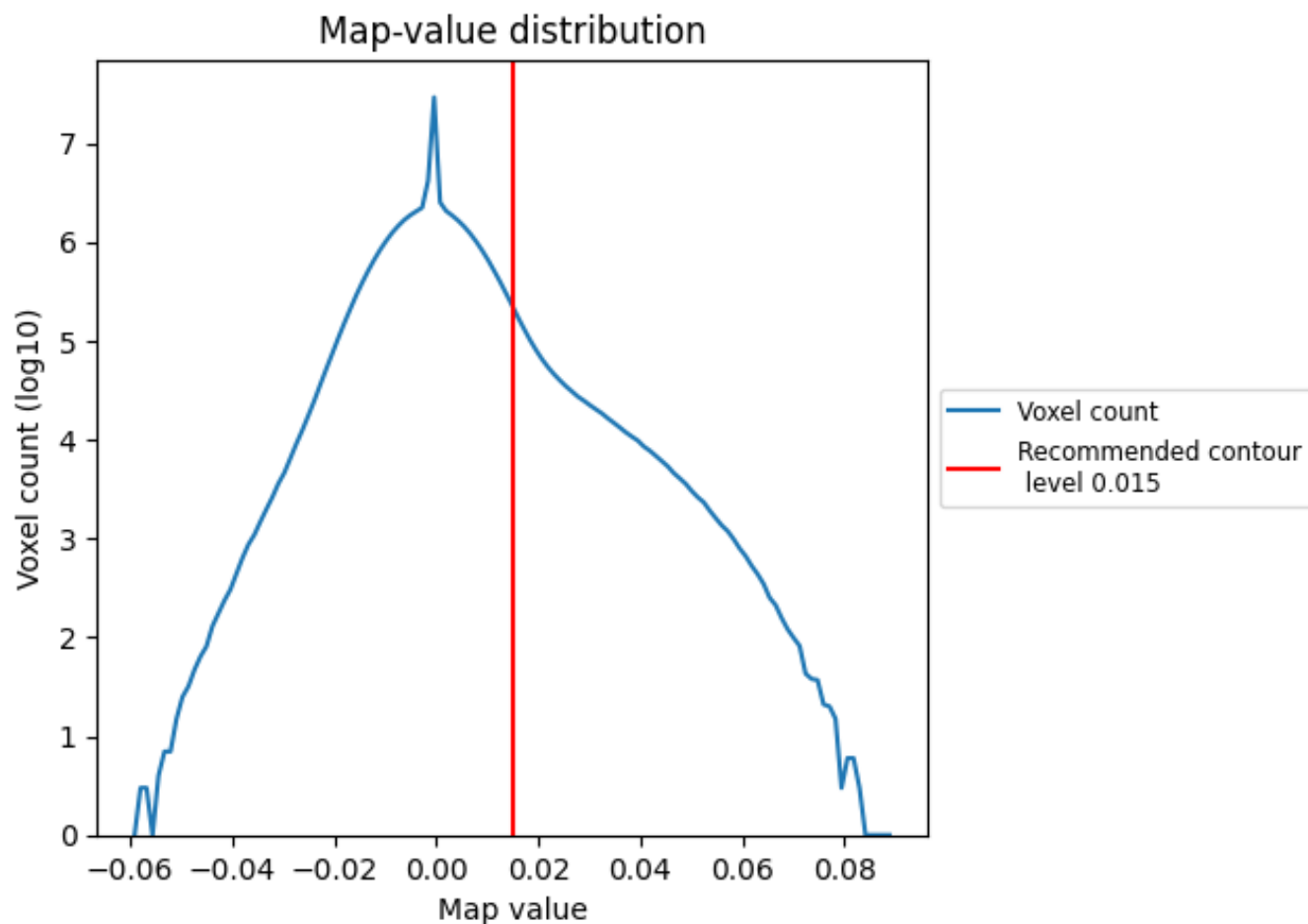


Z

7 Map analysis [i](#)

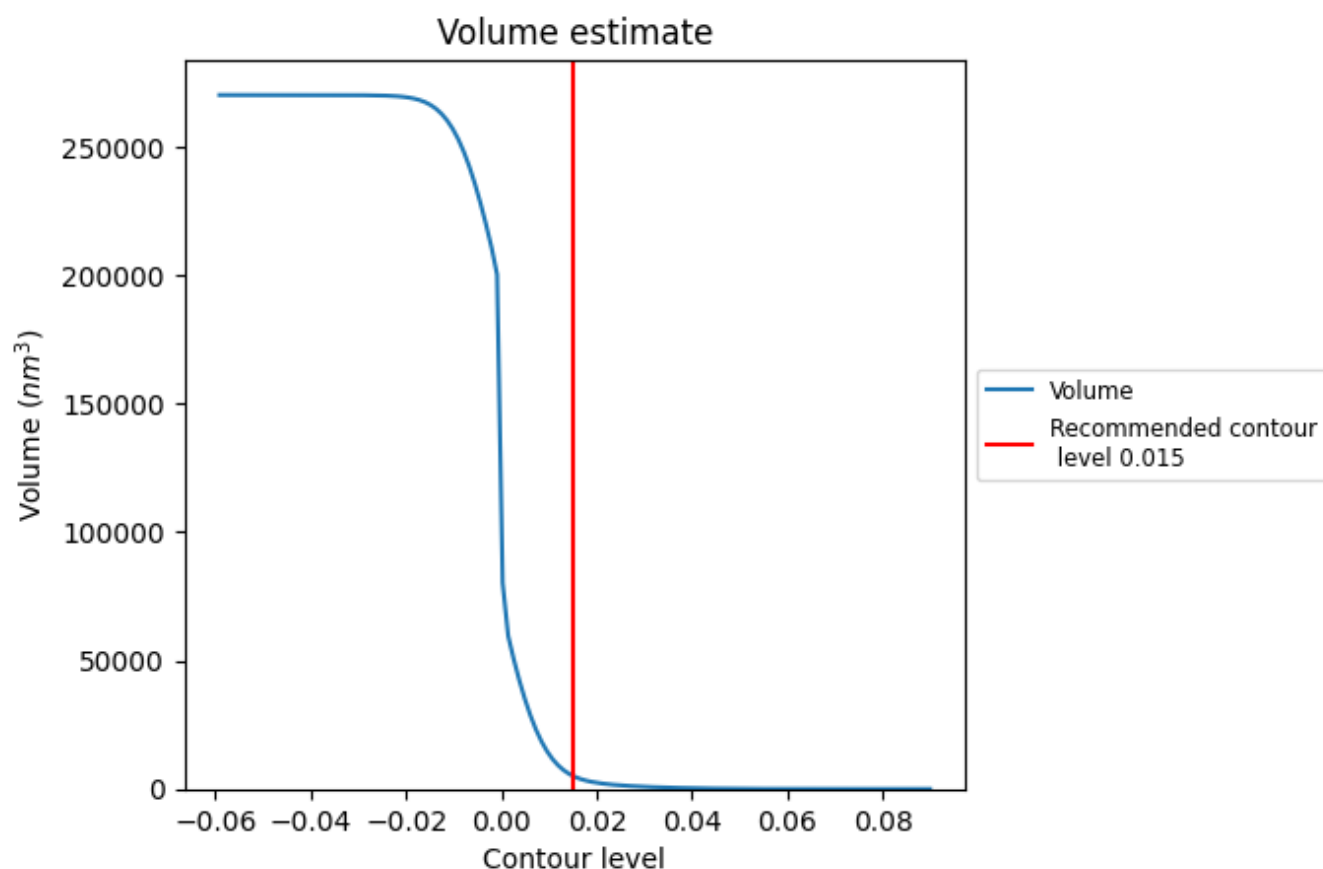
This section contains the results of statistical analysis of the map.

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.

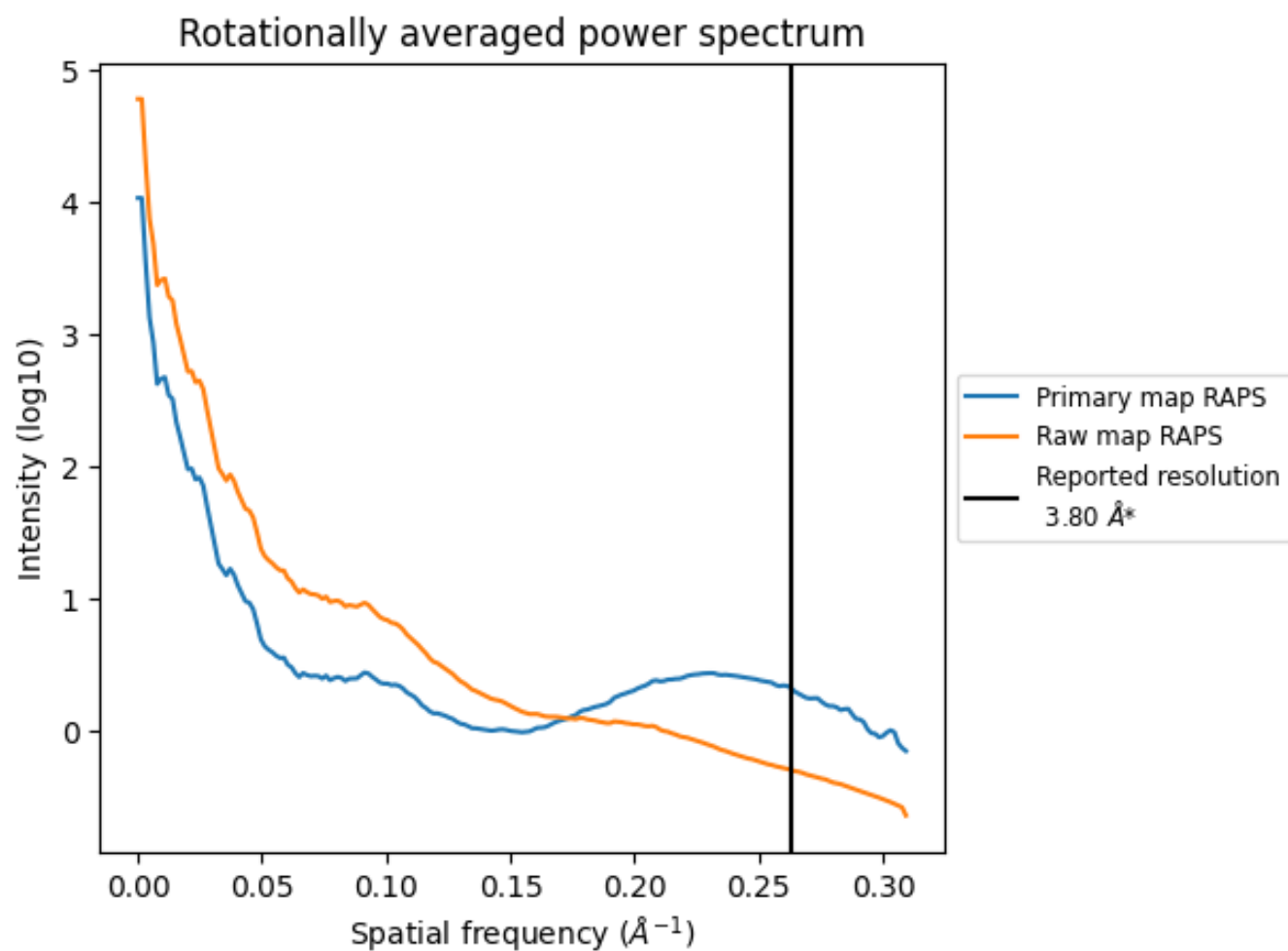
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 51411 nm^3 ; this corresponds to an approximate mass of 4644 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 ⓘ

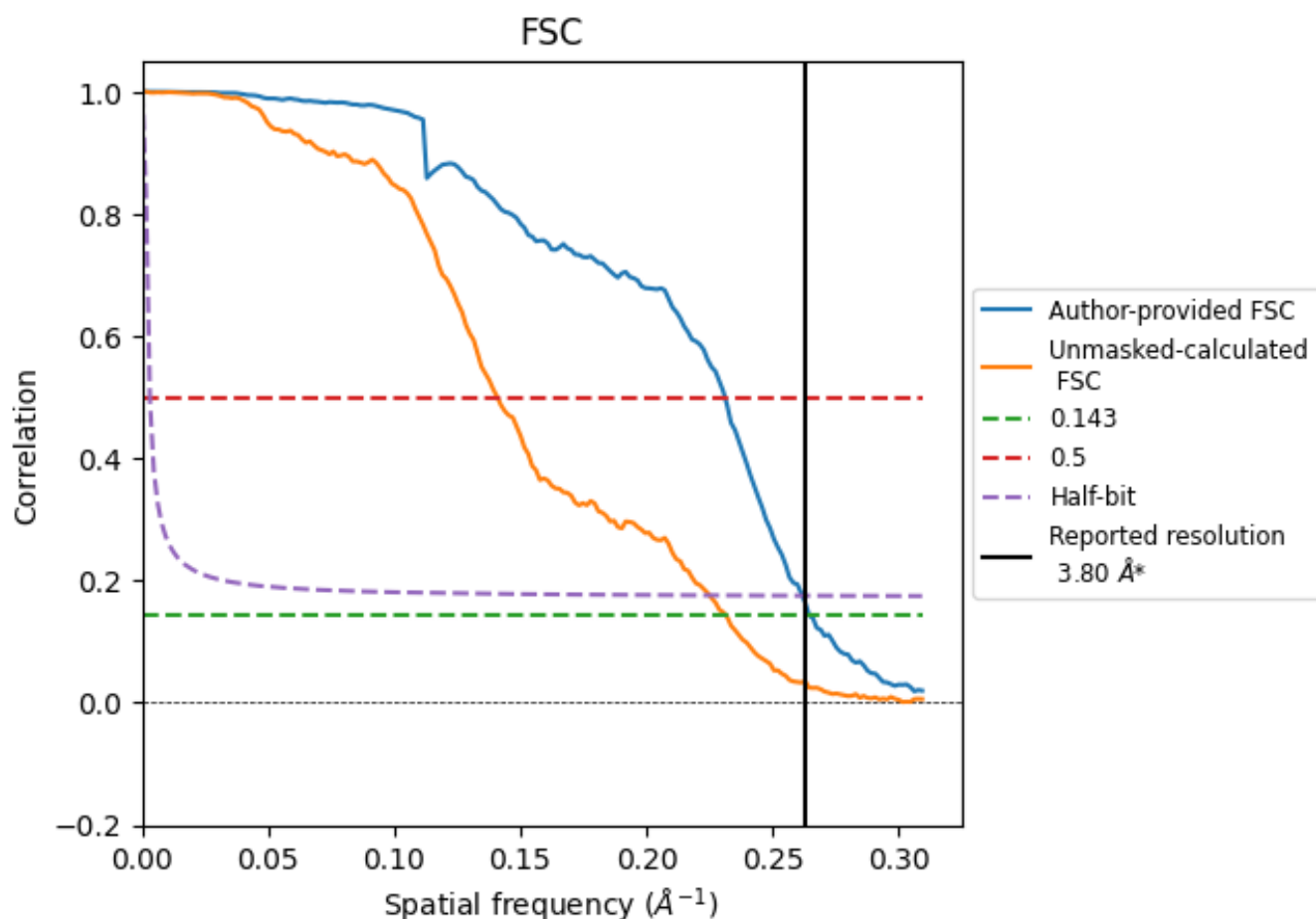


*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

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 0.263 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.80	-	-
Author-provided FSC curve	3.78	4.33	3.82
Unmasked-calculated*	4.32	7.10	4.44

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.32 differs from the reported value 3.8 by more than 10 %

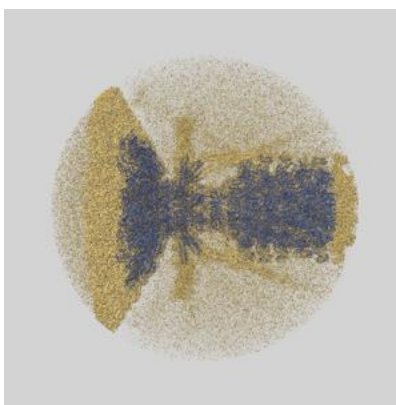
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-48458 and PDB model 9MOF. Per-residue inclusion information can be found in section [3](#) on page [23](#).

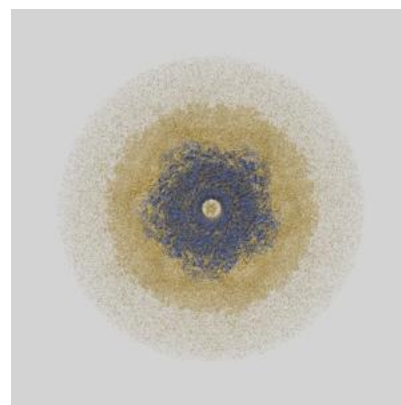
9.1 Map-model overlay [i](#)



X



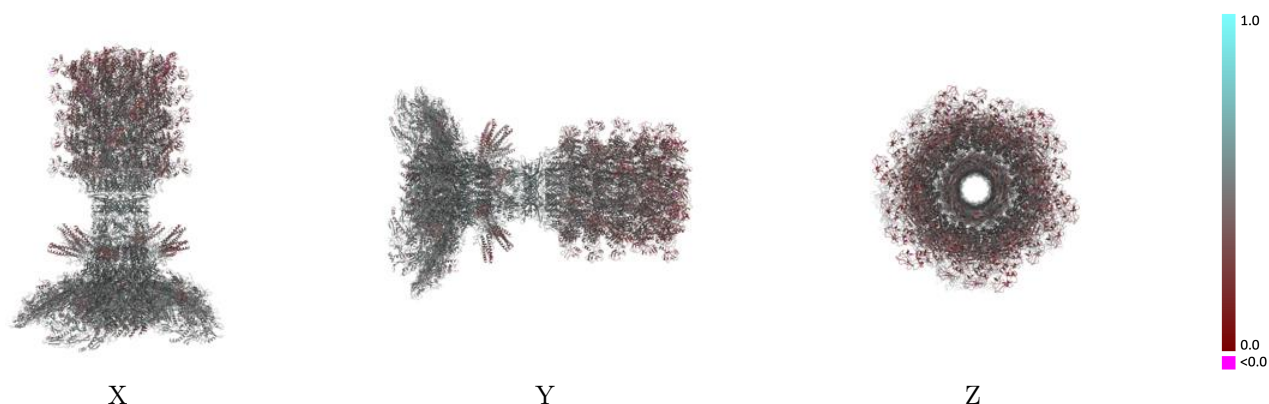
Y



Z

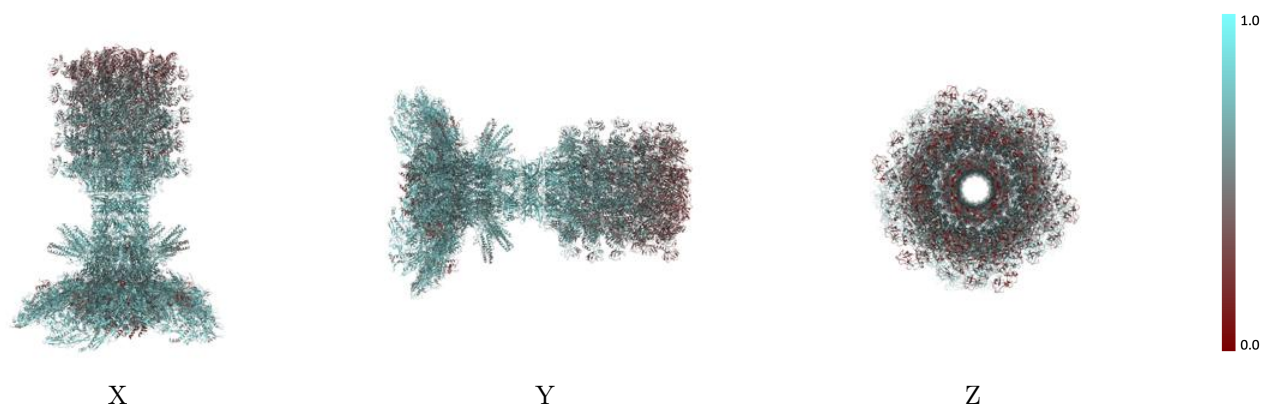
The images above show the 3D surface view of the map at the recommended contour level 0.015 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



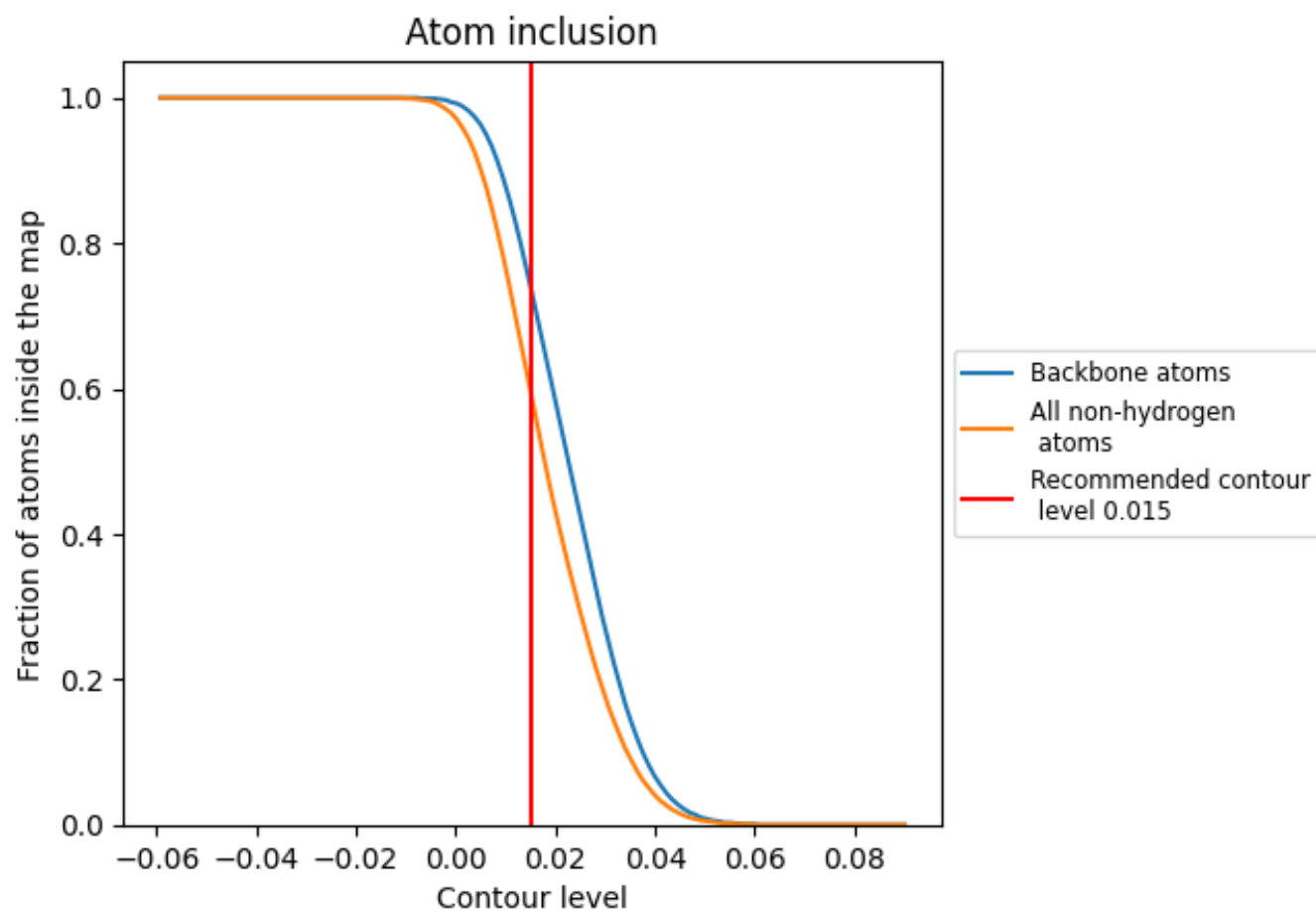
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.015).

9.4 Atom inclusion [i](#)



At the recommended contour level, 74% of all backbone atoms, 60% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.015) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5960	0.4460
0	0.7510	0.5060
1	0.6370	0.4330
2	0.6330	0.4280
3	0.6410	0.4320
4	0.6490	0.4340
5	0.6450	0.4300
6	0.6820	0.4960
7	0.6860	0.4970
8	0.7000	0.4940
9	0.6980	0.5070
A	0.6740	0.4400
A0	0.5520	0.4700
A1	0.5420	0.4710
A2	0.5400	0.4600
A3	0.5550	0.4680
A4	0.6720	0.4820
A5	0.6670	0.4790
A6	0.6800	0.4920
A7	0.6820	0.4840
A8	0.6870	0.4890
A9	0.6890	0.4910
AA	0.6970	0.5060
AB	0.7490	0.4970
AC	0.7210	0.5090
AD	0.6360	0.4300
AE	0.6730	0.4890
AF	0.6650	0.4960
AG	0.6550	0.4890
AH	0.6640	0.4860
AI	0.6560	0.4900
AJ	0.6460	0.4830
AK	0.5860	0.4210
AL	0.5830	0.4180
AM	0.5760	0.4170



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Chain	Atom inclusion	Q-score
AN	 0.5570	 0.4110
AO	 0.5570	 0.4090
AP	 0.5690	 0.4120
AQ	 0.2760	 0.3540
AR	 0.3000	 0.3680
AS	 0.3120	 0.3770
AT	 0.3180	 0.3670
AU	 0.3330	 0.3880
AV	 0.6960	 0.4960
AW	 0.6550	 0.4700
AX	 0.6850	 0.4880
AY	 0.6960	 0.5000
AZ	 0.6840	 0.4940
Aa	 0.6870	 0.5030
Ab	 0.6910	 0.4970
Ac	 0.6690	 0.4750
Ad	 0.6790	 0.4800
Ae	 0.6730	 0.4820
Af	 0.6520	 0.4660
Ag	 0.6540	 0.4700
Ah	 0.6700	 0.4800
Ai	 0.6530	 0.4710
Aj	 0.6610	 0.4760
Ak	 0.6730	 0.4800
Al	 0.6760	 0.4900
Am	 0.6820	 0.4880
An	 0.6790	 0.4850
Ao	 0.6910	 0.4910
Ap	 0.6900	 0.4880
Aq	 0.6780	 0.4940
Ar	 0.7000	 0.4960
As	 0.6730	 0.4950
At	 0.6500	 0.4800
Au	 0.6970	 0.4940
Av	 0.5470	 0.4710
Aw	 0.6750	 0.4860
Ax	 0.5600	 0.4760
Ay	 0.6840	 0.4930
Az	 0.6690	 0.4790
B	 0.6850	 0.4550
B1	 0.3570	 0.3380
B2	 0.5220	 0.3920

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Chain	Atom inclusion	Q-score
B3	 0.4490	 0.3750
B4	 0.3390	 0.3300
B5	 0.5150	 0.3970
B6	 0.4460	 0.3710
B7	 0.3490	 0.3440
BA	 0.5610	 0.4710
BB	 0.5610	 0.4750
BC	 0.6750	 0.4940
BD	 0.5440	 0.4680
BE	 0.6880	 0.4960
BF	 0.5440	 0.4640
BG	 0.5640	 0.4710
BH	 0.5550	 0.4700
BI	 0.6780	 0.4860
BJ	 0.6950	 0.4890
BK	 0.7000	 0.4920
BL	 0.6830	 0.4930
BM	 0.6950	 0.4920
BN	 0.6780	 0.4890
BO	 0.6850	 0.4830
BP	 0.6750	 0.4740
BQ	 0.6720	 0.4710
BR	 0.6850	 0.4870
BS	 0.6740	 0.4720
BT	 0.6830	 0.4730
BU	 0.6590	 0.4660
BV	 0.6990	 0.4950
BW	 0.6820	 0.4820
BX	 0.5800	 0.4750
BY	 0.4890	 0.4440
BZ	 0.3490	 0.4000
Ba	 0.5980	 0.4740
Bb	 0.4960	 0.4430
Bc	 0.3290	 0.3990
Bd	 0.5960	 0.4700
Be	 0.4800	 0.4330
Bf	 0.3290	 0.4020
Bg	 0.5970	 0.4800
Bh	 0.4750	 0.4350
Bi	 0.3450	 0.3830
Bj	 0.5920	 0.4690
Bk	 0.4800	 0.4460

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Chain	Atom inclusion	Q-score
Bl	 0.3250	 0.3940
Bm	 0.5930	 0.4790
Bn	 0.4710	 0.4370
Bo	 0.3320	 0.3980
Bp	 0.5430	 0.4020
Bq	 0.4620	 0.3810
Br	 0.3510	 0.3370
Bs	 0.5480	 0.4050
Bt	 0.4750	 0.3800
Bu	 0.3620	 0.3440
Bv	 0.5520	 0.4100
Bw	 0.4800	 0.3830
Bx	 0.3650	 0.3360
By	 0.5350	 0.3980
Bz	 0.4580	 0.3770
C	 0.6730	 0.4530
D	 0.6800	 0.4410
E	 0.6800	 0.4370
F	 0.6850	 0.4320
G	 0.7270	 0.4400
H	 0.7020	 0.4370
I	 0.6970	 0.4280
J	 0.6880	 0.4450
K	 0.6980	 0.4290
L	 0.6710	 0.4370
M	 0.6320	 0.3820
N	 0.6190	 0.3890
O	 0.6390	 0.4300
P	 0.6530	 0.4100
Q	 0.6780	 0.4350
R	 0.6810	 0.4310
S	 0.6610	 0.4310
T	 0.6800	 0.4340
U	 0.6510	 0.4330
V	 0.6730	 0.4140
W	 0.6440	 0.4090
X	 0.6420	 0.3940
Y	 0.6510	 0.4250
Z	 0.6590	 0.4080
a	 0.6220	 0.3840
b	 0.6290	 0.4020
c	 0.6120	 0.3760

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Chain	Atom inclusion	Q-score
d	 0.6260	 0.3850
e	 0.6140	 0.3820
f	 0.6370	 0.4130
g	 0.6360	 0.4150
h	 0.6190	 0.4280
i	 0.6000	 0.4120
j	 0.5970	 0.4130
k	 0.7490	 0.4990
l	 0.7400	 0.5020
m	 0.7480	 0.5010
n	 0.7550	 0.5020
o	 0.6970	 0.5070
p	 0.7510	 0.4980
q	 0.7380	 0.4950
r	 0.7460	 0.4980
s	 0.7390	 0.4910
t	 0.7340	 0.4960
u	 0.7410	 0.4940
v	 0.7210	 0.5080
w	 0.7140	 0.5030
x	 0.7200	 0.5080
y	 0.7340	 0.5070
z	 0.7160	 0.5050