



Full wwPDB EM Validation Report ⓘ

Jan 21, 2026 – 01:37 AM EST

PDB ID : 9MOG / pdb_00009mog
EMDB ID : EMD-48459
Title : Structure of the distal part of the bacteriophage T4 tail
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 : 3.60 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev129
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.47

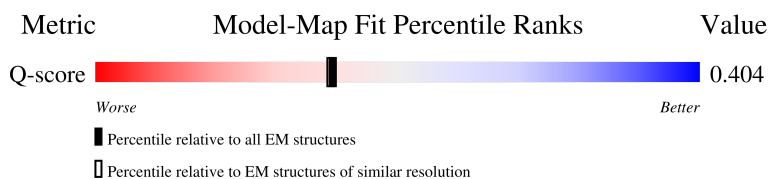
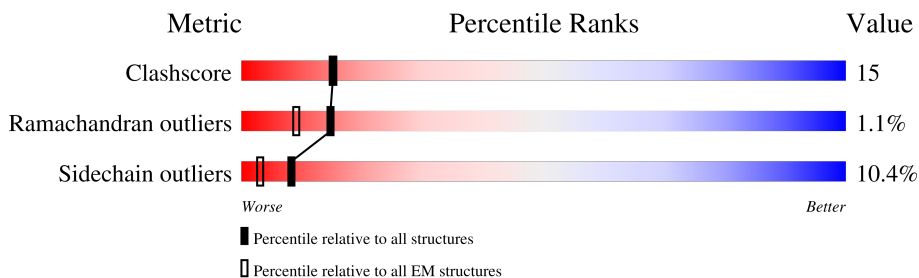
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	12797 (3.10 - 4.10)

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	S0	527	99% 57% 40%
1	S1	527	98% 58% 37%
1	S2	527	98% 59% 38%
1	S3	527	98% 61% 36%

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Mol	Chain	Length	Quality of chain	
1	S4	527	99%	60%
1	S5	527	97%	61%
1	S6	527	98%	61%
1	S7	527	97%	63%
1	S8	527	97%	60%
1	SA	527	99%	60%
1	SO	527	98%	59%
1	SP	527	97%	60%
1	SQ	527	99%	60%
1	Sv	527	98%	60%
1	Sw	527	98%	64%
1	Sx	527	99%	61%
1	Sy	527	97%	63%
1	Sz	527	98%	60%
2	T1	288	100%	65%
2	T2	288	100%	68%
2	T3	288	100%	65%
2	T4	288	100%	67%
2	T5	288	100%	73%
2	T6	288	100%	69%
2	T7	288	100%	66%
2	T8	288	100%	72%
2	T9	288	100%	67%
2	TF	288	100%	66%
2	TG	288	100%	69%

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Mol	Chain	Length	Quality of chain
2	TH	288	99% 69% 30%
2	Td	288	99% 62% 37%
2	Te	288	99% 68% 30%
2	Tf	288	100% 71% 27%
2	Tg	288	100% 68% 29%
2	Th	288	100% 72% 27%
2	Ti	288	100% 66% 33%
3	UL	219	99% 65% 33%
3	UM	219	100% 63% 35%
3	UN	219	99% 57% 42%
3	Up	219	100% 63% 35%
3	Uq	219	99% 63% 35%
3	Ur	219	99% 61% 36%
3	Us	219	100% 61% 37%
3	Ut	219	99% 68% 30%
3	Uu	219	100% 63% 37%
3	VL	219	99% 63% 36%
3	VM	219	100% 60% 39%
3	VN	219	99% 68% 31%
3	Vp	219	99% 64% 33%
3	Vq	219	99% 64% 34%
3	Vr	219	100% 60% 38%
3	Vs	219	100% 62% 35%
3	Vt	219	99% 64% 34%
3	Vu	219	99% 60% 39%

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Mol	Chain	Length	Quality of chain
4	WI	602	91% 56% 40% .
4	WJ	602	88% 58% 38% .
4	WK	602	88% 54% 41% 5% .
4	Wj	602	92% 54% 41% .
4	Wk	602	90% 57% 40% .
4	Wl	602	88% 56% 39% . .
4	Wm	602	88% 57% 37% 5%
4	Wn	602	89% 56% 39% 5%
4	Wo	602	89% 54% 41% . .
4	XI	602	91% 54% 41% 5%
4	XJ	602	88% 54% 40% 5% .
4	XK	602	90% 59% 36% 5%
4	Xj	602	92% 55% 40% .
4	Xk	602	90% 57% 39% .
4	Xl	602	88% 55% 40% .
4	Xm	602	86% 57% 38% 5%
4	Xn	602	89% 58% 37% 5%
4	Xo	602	90% 55% 39% 5% .
5	YC	1032	33% 50% 37% 9% .
5	YX	1032	30% 50% 38% 9% . .
5	YY	1032	32% 50% 39% 8% .
5	Yc	1032	31% 48% 41% 8% .
5	Yx	1032	32% 50% 38% 8% . .
5	Yy	1032	31% 49% 40% 7% .
6	ZD	334	29% 68% 29% . .

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Mol	Chain	Length	Quality of chain
6	ZE	334	
6	ZZ	334	
6	Za	334	
6	Zb	334	
6	Zc	334	
6	aD	334	
6	aE	334	
6	aZ	334	
6	aa	334	
6	ab	334	
6	ac	334	
7	b0	659	
7	b3	659	
7	b4	659	
7	b5	659	
7	b6	659	
7	b7	659	
7	b8	659	
7	b9	659	
7	bN	659	
7	bO	659	
7	bP	659	
7	bQ	659	
7	bR	659	
7	bY	659	

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Mol	Chain	Length	Quality of chain
7	cA	659	
7	cB	659	
7	cC	659	
7	cD	659	
7	cE	659	
7	cF	659	
7	cG	659	
7	cH	659	
7	cI	659	
7	cJ	659	
7	cK	659	
7	cL	659	
7	cM	659	
7	cN	659	
7	cO	659	
7	cP	659	
7	dS	659	
7	dT	659	
7	dU	659	
7	dV	659	
7	dW	659	
7	dZ	659	
8	eB	660	
8	eU	660	
8	eW	660	

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Mol	Chain	Length	Quality of chain
8	f9	660	
8	fA	660	
8	fB	660	
8	fR	660	
8	fS	660	
8	fU	660	
8	fW	660	
8	fr	660	
8	fs	660	
9	gE	575	
9	gG	575	
9	gH	575	
10	gd	97	
11	h1	163	
11	h2	163	
11	hI	163	
11	hJ	163	
11	hK	163	
11	hL	163	
11	hM	163	
11	hX	163	
11	he	163	
11	hf	163	
11	hg	163	
11	hh	163	

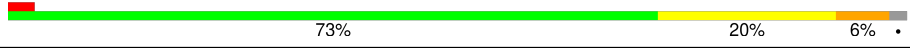
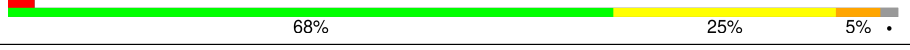
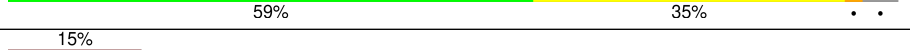
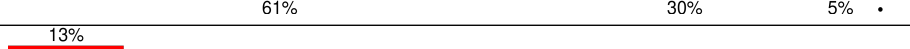
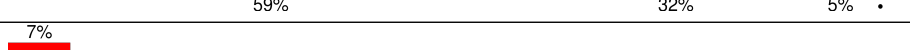
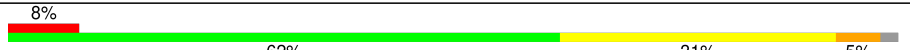
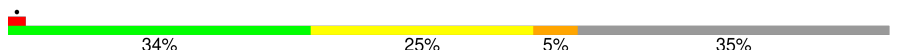
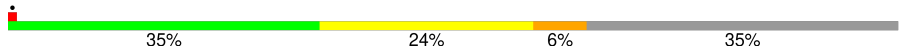
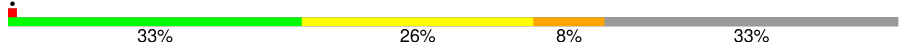
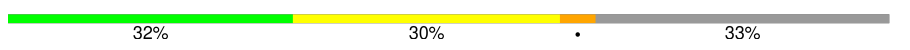
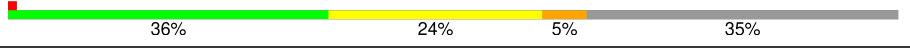
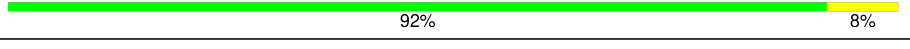
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Mol	Chain	Length	Quality of chain
11	hi	163	
11	hj	163	
11	hk	163	
11	hl	163	
11	hm	163	
11	hn	163	
11	ho	163	
11	hp	163	
11	hq	163	
11	hr	163	
11	hs	163	
11	ht	163	
11	hu	163	
11	hv	163	
11	hw	163	
11	hx	163	
11	hy	163	
11	hz	163	
12	iC	391	
12	iD	391	
12	iF	391	
13	ja	590	
13	jb	590	
13	jc	590	
14	k3	196	

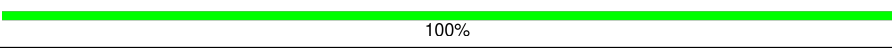
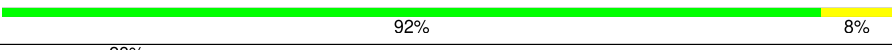
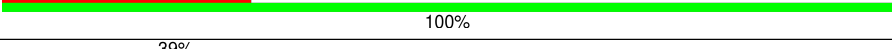
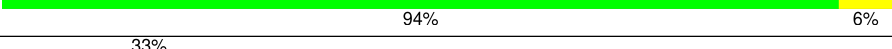
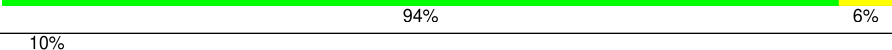
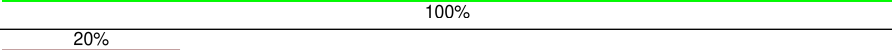
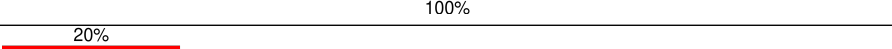
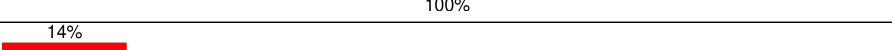
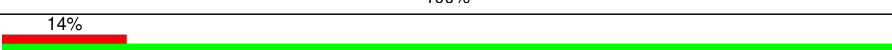
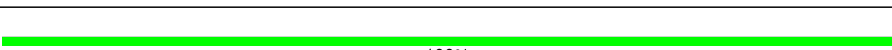
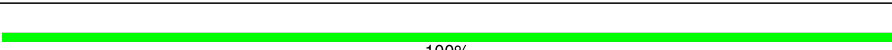
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Mol	Chain	Length	Quality of chain
14	k4	196	
14	k7	196	
14	k8	196	
14	kV	196	
14	lV	196	
15	m1	132	
15	m2	132	
15	m5	132	
15	m6	132	
15	mT	132	
15	nT	132	
16	o0	364	
16	o1	364	
16	o2	364	
16	o6	364	
16	pA	364	
16	pB	364	
17	q3	320	
17	q4	320	
17	q5	320	
17	q7	320	
17	q8	320	
17	q9	320	
18	rc	25	
18	rd	25	

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Mol	Chain	Length	Quality of chain
18	re	25	
18	rf	25	
18	rg	25	
18	rh	25	
19	sQ	18	
19	sT	18	
19	sU	18	
20	tS	10	
20	tX	10	
20	tY	10	
21	uR	7	
21	uV	7	
21	uW	7	
22	vZ	9	
22	va	9	
22	vb	9	

2 Entry composition [i](#)

There are 23 unique types of molecules in this entry. The entry contains 652117 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 gp12, short tail fiber protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	S0	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S1	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S2	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S3	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S4	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S5	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S6	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S7	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	S8	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	SA	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	SO	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	SP	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	SQ	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	Sv	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	Sw	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	Sx	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		
1	Sy	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Sz	526	Total	C	N	O	S	0	0
			3945	2429	702	803	11		

- Molecule 2 is a protein called gp9, baseplate wedge tail fiber connector.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	T1	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T2	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T3	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T4	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T5	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T6	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T7	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T8	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	T9	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	TF	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	TG	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	TH	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Td	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Te	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Tf	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Tg	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Th	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
2	Ti	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		

- Molecule 3 is a protein called gp11, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	UL	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	UM	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	UN	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Up	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Uq	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Ur	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Us	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Ut	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Uu	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	VL	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	VM	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	VN	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vp	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vq	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vr	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vs	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vt	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
3	Vu	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		

- Molecule 4 is a protein called gp10, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	WI	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	WJ	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	WK	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wj	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wk	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wl	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wm	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wn	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Wo	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	XI	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	XJ	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	XK	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xj	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xk	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xl	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xm	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xn	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
4	Xo	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		

- Molecule 5 is a protein called gp7, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	YC	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
5	YX	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	YY	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
5	Yc	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
5	Yx	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
5	Yy	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		

- Molecule 6 is a protein called gp8, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	ZD	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	ZE	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
6	ZZ	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	Za	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	Zb	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
6	Zc	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
6	aD	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	aE	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
6	aZ	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	aa	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
6	ab	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
6	ac	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		

- Molecule 7 is a protein called gp18, tail sheath protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	b0	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	b3	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b4	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b5	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b6	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b7	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b8	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	b9	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bN	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bO	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bP	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bQ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bR	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	bY	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cA	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cB	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cC	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cD	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cE	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cF	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cG	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cH	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	cI	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cJ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cK	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cL	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cM	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cN	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cO	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	cP	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
7	dS	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		
7	dT	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		
7	dU	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		
7	dV	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		
7	dW	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		
7	dZ	647	Total	C	N	O	S	0	0
			4941	3115	833	982	11		

There are 108 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
b0	109	ASN	SER	conflict	UNP A0A7S9SVW9
b0	301	GLY	GLU	conflict	UNP A0A7S9SVW9
b0	399	VAL	ALA	conflict	UNP A0A7S9SVW9
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

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Chain	Residue	Modelled	Actual	Comment	Reference
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
b8	109	ASN	SER	conflict	UNP A0A7S9SVW9
b8	301	GLY	GLU	conflict	UNP A0A7S9SVW9
b8	399	VAL	ALA	conflict	UNP A0A7S9SVW9
b9	109	ASN	SER	conflict	UNP A0A7S9SVW9
b9	301	GLY	GLU	conflict	UNP A0A7S9SVW9
b9	399	VAL	ALA	conflict	UNP A0A7S9SVW9
bN	109	ASN	SER	conflict	UNP A0A7S9SVW9
bN	301	GLY	GLU	conflict	UNP A0A7S9SVW9
bN	399	VAL	ALA	conflict	UNP A0A7S9SVW9
bO	109	ASN	SER	conflict	UNP A0A7S9SVW9
bO	301	GLY	GLU	conflict	UNP A0A7S9SVW9
bO	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
bY	109	ASN	SER	conflict	UNP A0A7S9SVW9
bY	301	GLY	GLU	conflict	UNP A0A7S9SVW9
bY	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cA	109	ASN	SER	conflict	UNP A0A7S9SVW9
cA	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cA	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cB	109	ASN	SER	conflict	UNP A0A7S9SVW9
cB	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cB	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cC	109	ASN	SER	conflict	UNP A0A7S9SVW9
cC	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cC	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cD	109	ASN	SER	conflict	UNP A0A7S9SVW9
cD	301	GLY	GLU	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
cD	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cE	109	ASN	SER	conflict	UNP A0A7S9SVW9
cE	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cE	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cF	109	ASN	SER	conflict	UNP A0A7S9SVW9
cF	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cF	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cG	109	ASN	SER	conflict	UNP A0A7S9SVW9
cG	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cG	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cH	109	ASN	SER	conflict	UNP A0A7S9SVW9
cH	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cH	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cI	109	ASN	SER	conflict	UNP A0A7S9SVW9
cI	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cI	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cJ	109	ASN	SER	conflict	UNP A0A7S9SVW9
cJ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cJ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cK	109	ASN	SER	conflict	UNP A0A7S9SVW9
cK	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cK	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cL	109	ASN	SER	conflict	UNP A0A7S9SVW9
cL	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cL	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cM	109	ASN	SER	conflict	UNP A0A7S9SVW9
cM	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cM	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cN	109	ASN	SER	conflict	UNP A0A7S9SVW9
cN	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cN	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cO	109	ASN	SER	conflict	UNP A0A7S9SVW9
cO	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cO	399	VAL	ALA	conflict	UNP A0A7S9SVW9
cP	109	ASN	SER	conflict	UNP A0A7S9SVW9
cP	301	GLY	GLU	conflict	UNP A0A7S9SVW9
cP	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dS	109	ASN	SER	conflict	UNP A0A7S9SVW9
dS	301	GLY	GLU	conflict	UNP A0A7S9SVW9
dS	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dT	109	ASN	SER	conflict	UNP A0A7S9SVW9
dT	301	GLY	GLU	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
dT	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dU	109	ASN	SER	conflict	UNP A0A7S9SVW9
dU	301	GLY	GLU	conflict	UNP A0A7S9SVW9
dU	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dV	109	ASN	SER	conflict	UNP A0A7S9SVW9
dV	301	GLY	GLU	conflict	UNP A0A7S9SVW9
dV	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dW	109	ASN	SER	conflict	UNP A0A7S9SVW9
dW	301	GLY	GLU	conflict	UNP A0A7S9SVW9
dW	399	VAL	ALA	conflict	UNP A0A7S9SVW9
dZ	109	ASN	SER	conflict	UNP A0A7S9SVW9
dZ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
dZ	399	VAL	ALA	conflict	UNP A0A7S9SVW9

- Molecule 8 is a protein called gp6, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	eB	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	eU	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	eW	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	f9	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
8	fA	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
8	fB	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	fR	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
8	fS	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
8	fU	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	fW	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
8	fr	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
8	fs	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		

- Molecule 9 is a protein called gp5, baseplate central spike protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	gE	559	Total	C	N	O	S	0	0
			4321	2681	761	856	23		
9	gG	559	Total	C	N	O	S	0	0
			4321	2681	761	856	23		
9	gH	559	Total	C	N	O	S	0	0
			4321	2681	761	856	23		

- Molecule 10 is a protein called gp5.4, tip of the central spike.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	gd	96	Total	C	N	O	S	0	0
			709	447	120	139	3		

- Molecule 11 is a protein called gp19, tail tube protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	h1	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	h2	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hI	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hJ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hK	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hL	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hM	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hX	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	he	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hf	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hg	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hh	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hi	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hj	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	hk	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hl	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hm	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hn	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	ho	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hp	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hq	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hr	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hs	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	ht	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hu	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hv	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hw	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hx	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hy	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
11	hz	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

- Molecule 12 is a protein called gp27, baseplate hub protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	iC	375	Total	C	N	O	S	0	0
			3000	1916	491	575	18		
12	iD	375	Total	C	N	O	S	0	0
			3000	1916	491	575	18		
12	iF	375	Total	C	N	O	S	0	0
			3000	1916	491	575	18		

- Molecule 13 is a protein called gp29, tape measure protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	ja	20	Total	C	N	O	S	0	0
			137	84	22	30	1		
13	jb	20	Total	C	N	O	S	0	0
			137	84	22	30	1		
13	jc	20	Total	C	N	O	S	0	0
			137	84	22	30	1		

- Molecule 14 is a protein called gp53, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	k3	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
14	k4	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
14	k7	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
14	k8	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
14	kV	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
14	IV	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		

- Molecule 15 is a protein called gp25, baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	m1	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		
15	m2	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		
15	m5	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		
15	m6	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		
15	mT	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		
15	nT	127	Total	C	N	O	S	0	0
			1019	640	171	204	4		

- Molecule 16 is a protein called gp48, baseplate protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	o0	358	Total	C	N	O	S	0	0
			2749	1714	467	559	9		
16	o1	314	Total	C	N	O	S	0	0
			2436	1523	414	491	8		
16	o2	314	Total	C	N	O	S	0	0
			2436	1523	414	491	8		
16	o6	314	Total	C	N	O	S	0	0
			2436	1523	414	491	8		
16	pA	358	Total	C	N	O	S	0	0
			2749	1714	467	559	9		
16	pB	358	Total	C	N	O	S	0	0
			2749	1714	467	559	9		

- Molecule 17 is a protein called gp54, baseplate protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	q3	207	Total	C	N	O	S	0	0
			1650	1037	280	321	12		
17	q4	207	Total	C	N	O	S	0	0
			1650	1037	280	321	12		
17	q5	213	Total	C	N	O	S	0	0
			1693	1064	287	330	12		
17	q7	213	Total	C	N	O	S	0	0
			1693	1064	287	330	12		
17	q8	207	Total	C	N	O	S	0	0
			1650	1037	280	321	12		
17	q9	213	Total	C	N	O	S	0	0
			1693	1064	287	330	12		

- Molecule 18 is a protein called unassigned peptide A.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	rc	25	Total	C	N	O	0	0
			125	75	25	25		
18	rd	25	Total	C	N	O	0	0
			125	75	25	25		
18	re	25	Total	C	N	O	0	0
			125	75	25	25		
18	rf	25	Total	C	N	O	0	0
			125	75	25	25		
18	rg	25	Total	C	N	O	0	0
			125	75	25	25		
18	rh	25	Total	C	N	O	0	0
			125	75	25	25		

- Molecule 19 is a protein called unassigned peptide B.

Mol	Chain	Residues	Atoms				AltConf	Trace
19	sQ	18	Total	C	N	O	0	0
			90	54	18	18		
19	sT	18	Total	C	N	O	0	0
			90	54	18	18		
19	sU	18	Total	C	N	O	0	0
			90	54	18	18		

- Molecule 20 is a protein called unassigned peptide C.

Mol	Chain	Residues	Atoms				AltConf	Trace
20	tS	10	Total	C	N	O	0	0
			50	30	10	10		
20	tX	10	Total	C	N	O	0	0
			50	30	10	10		
20	tY	10	Total	C	N	O	0	0
			50	30	10	10		

- Molecule 21 is a protein called unassigned peptide D.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	uR	7	Total	C	N	O	0	0
			35	21	7	7		
21	uV	7	Total	C	N	O	0	0
			35	21	7	7		
21	uW	7	Total	C	N	O	0	0
			35	21	7	7		

- Molecule 22 is a protein called unassigned peptide E.

Mol	Chain	Residues	Atoms				AltConf	Trace
22	vZ	9	Total	C	N	O	0	0
			45	27	9	9		
22	va	9	Total	C	N	O	0	0
			45	27	9	9		
22	vb	9	Total	C	N	O	0	0
			45	27	9	9		

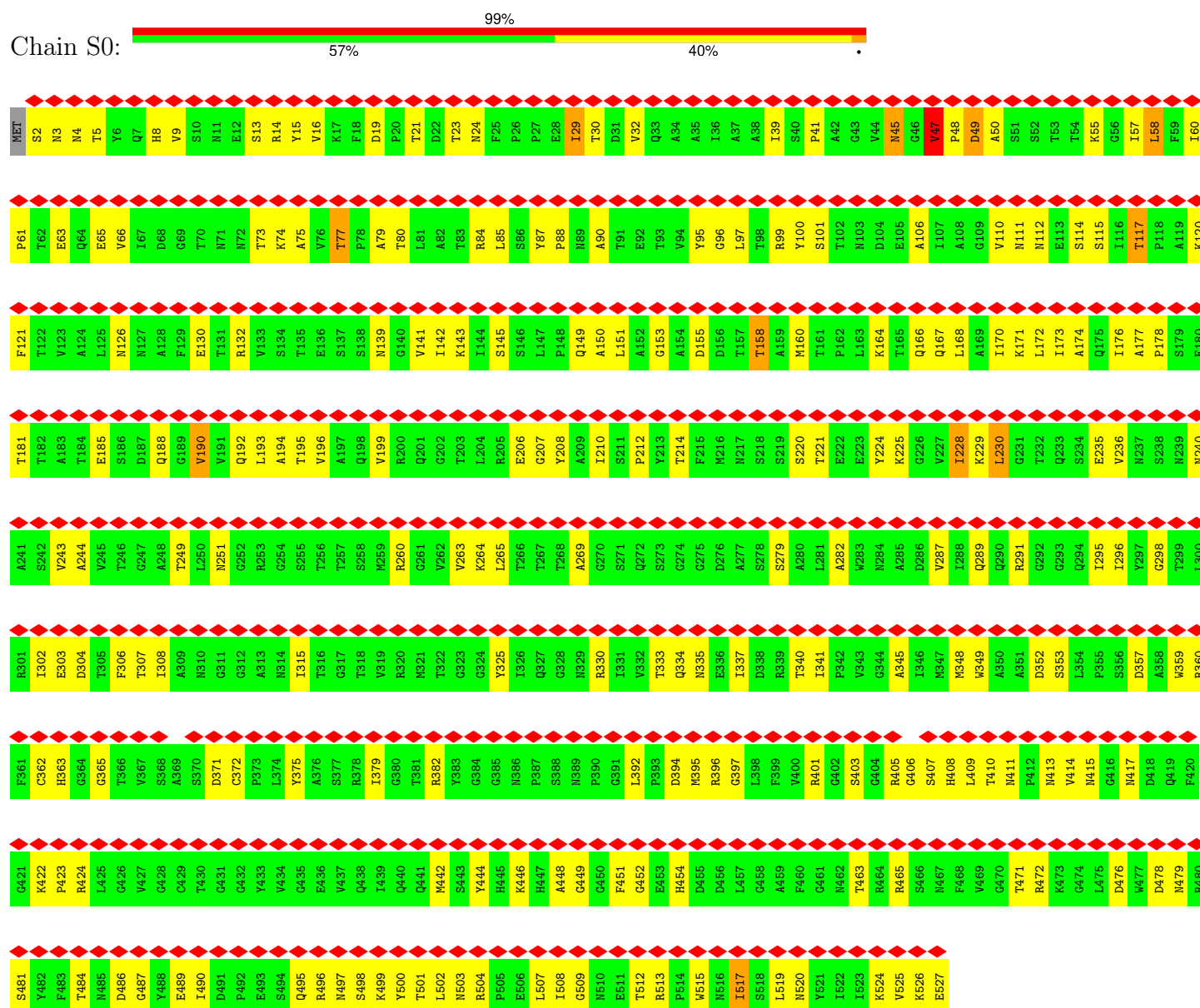
- Molecule 23 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
23	S0	1	Total 1	Zn 1	0
23	S1	1	Total 1	Zn 1	0
23	S4	1	Total 1	Zn 1	0
23	SA	1	Total 1	Zn 1	0
23	SQ	1	Total 1	Zn 1	0
23	Sv	1	Total 1	Zn 1	0

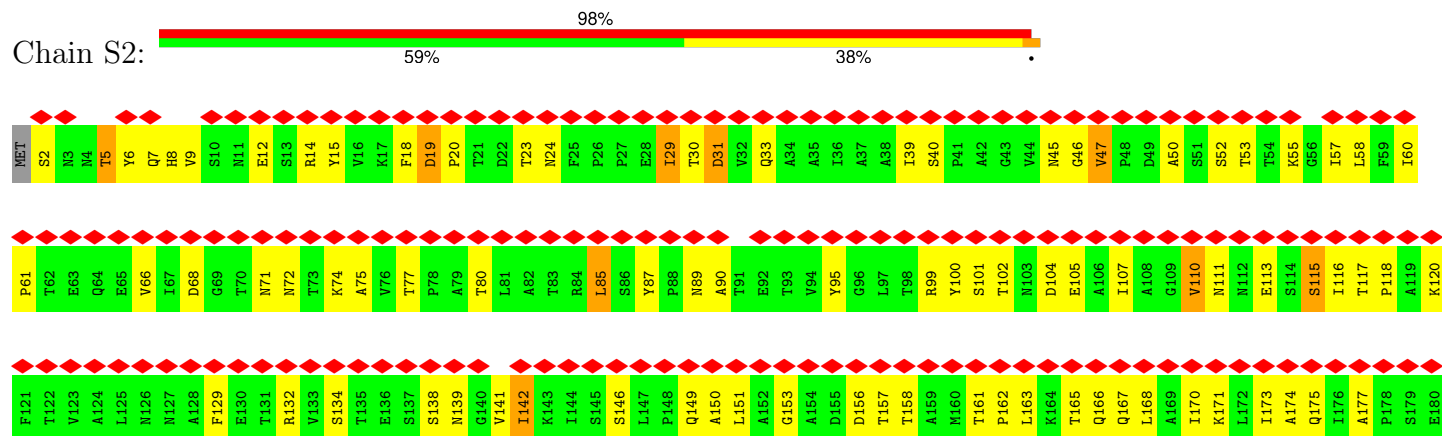
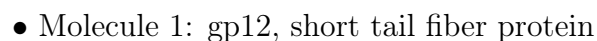
3 Residue-property plots

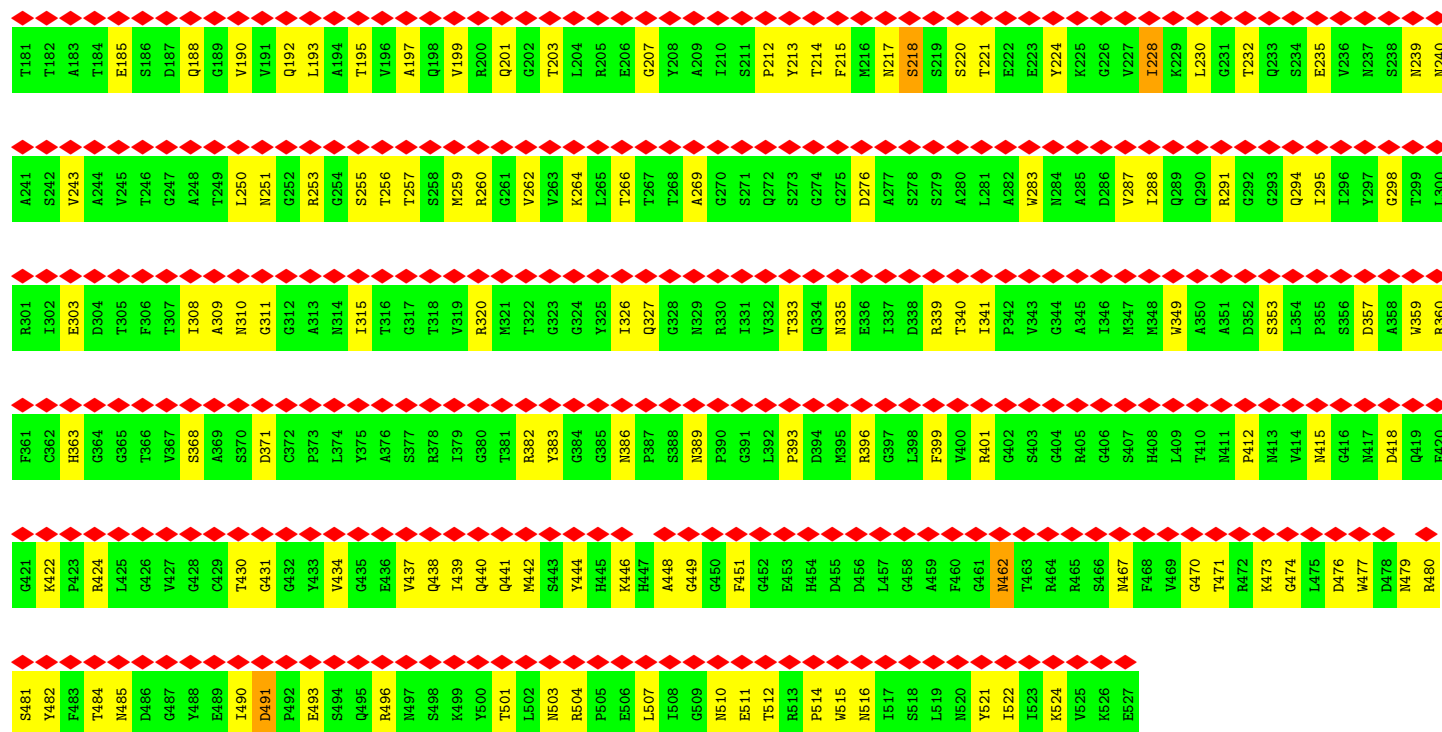
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: gp12, short tail fiber protein



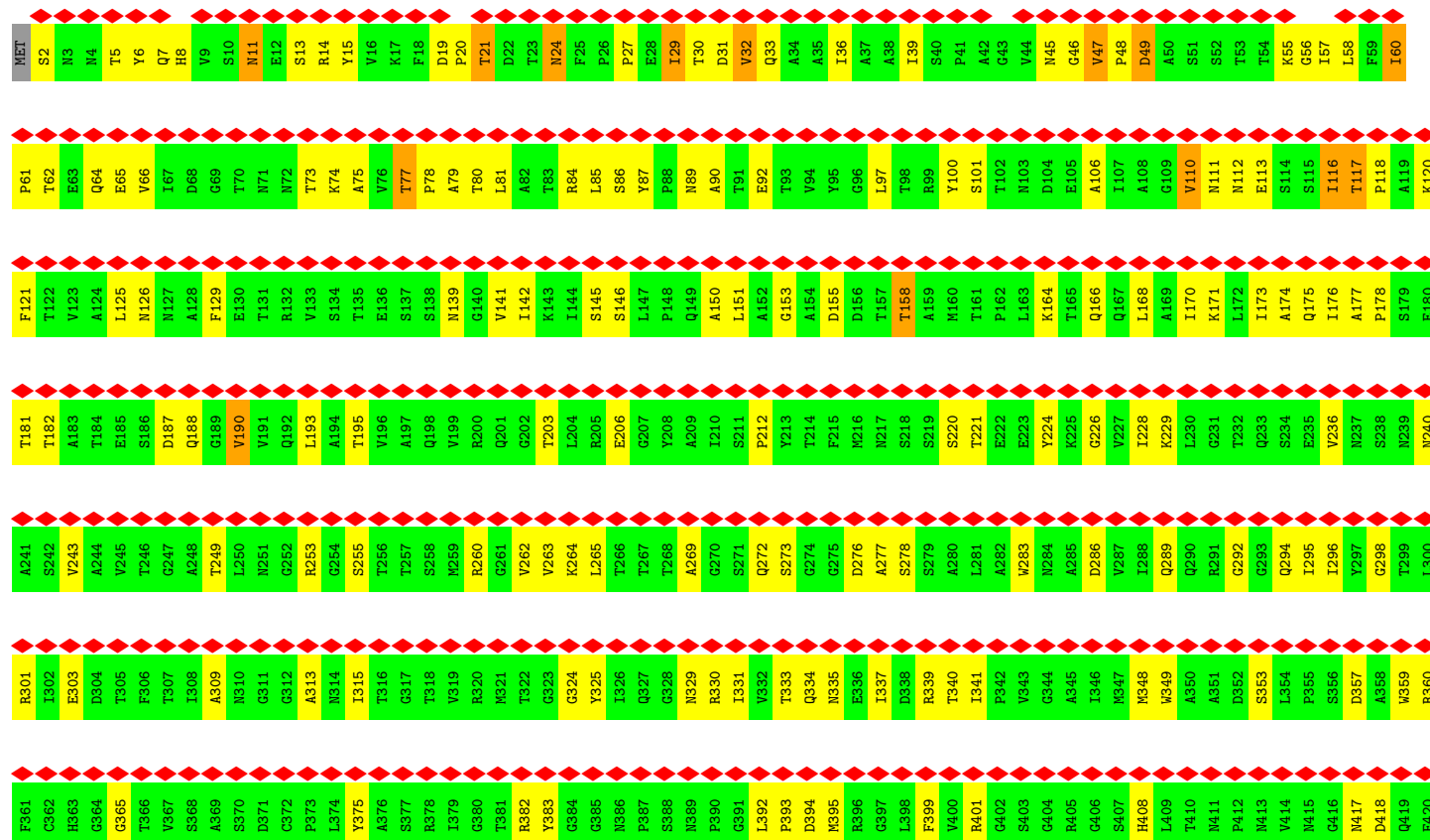
- Molecule 1: gp12, short tail fiber protein

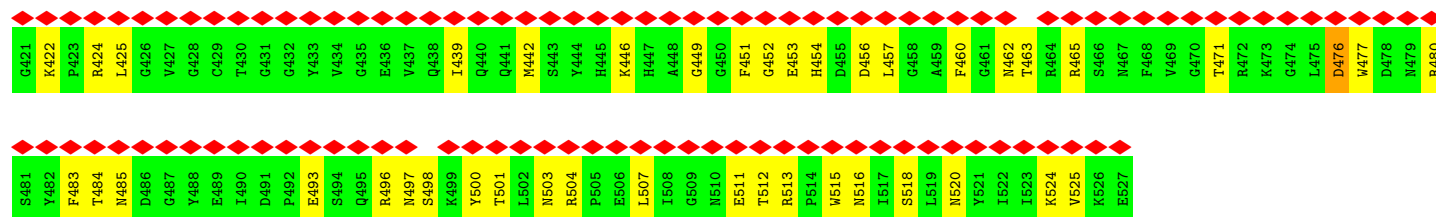




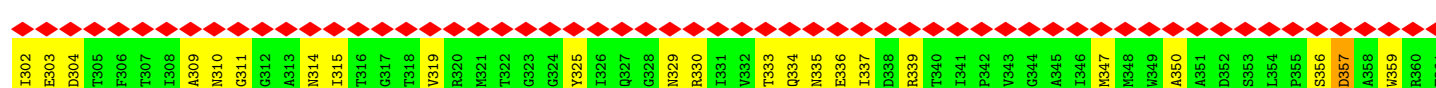
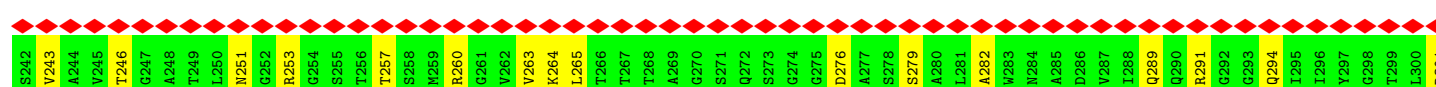
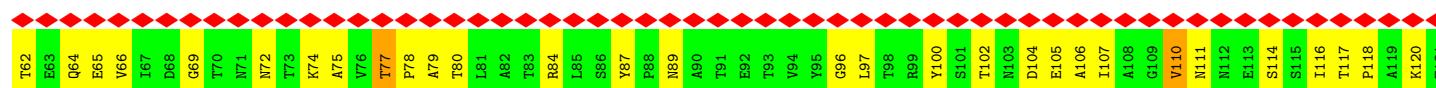
• Molecule 1: gp12, short tail fiber protein

Chain S3:





- Molecule 1: gp12, short tail fiber protein



- Molecule 1: gp12, short tail fiber protein

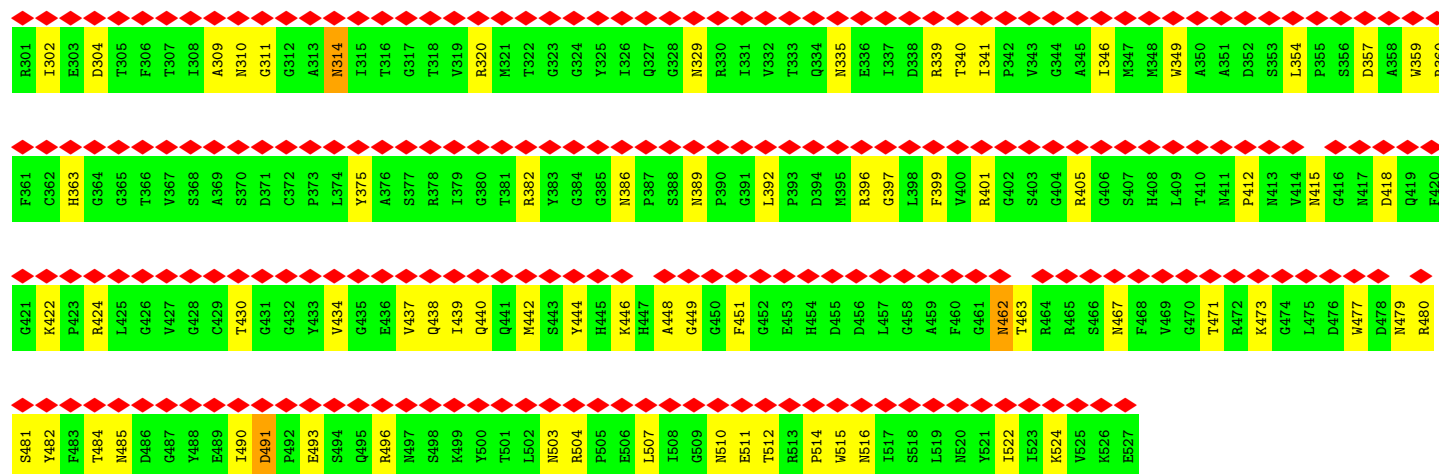


P61	T181	A241	R301	F361	G421	S481
T62	T182	S242	I302	G362	K422	Y482
E63	A183	V243	E303	H363	P423	F483
Q64	T184	A244	D304	G364	R424	T484
E65	L125	T245	T305	G365	L425	N485
V66	N126	T246	F306	T366	G426	D486
I67	N127	G247	T307	V367	V427	G487
D68	A128	A248	I308	S368	G428	Y488
G69	F129	T249	A309	A369	C429	E489
T70	T190	L250	N310	S370	T430	L490
N71	T131	N251	G311	D371	G431	D491
N72	R132	G252	G312	G372	G432	P492
T73	V133	R253	A313	P373	Y433	E493
K74	S134	G254	N314	L374	Y434	S494
A75	T135	S255	I315	V375	G435	Q495
V76	E136	T256	T316	A376	E436	R496
T77	E137	T257	G317	S377	V437	N497
P78	S138	Q198	T318	R378	V438	S498
A79	N139	V199	V319	I379	T439	K499
T80	G140	R200	R320	G380	Q440	Y500
L81	V141	Q201	M321	T381	Q441	T501
A82	I142	G202	T322	R382	N442	L502
T83	K143	T203	G323	V383	S443	N503
R84	I144	L204	G324	G384	Y444	R504
L85	S145	R205	Y325	G385	H445	P505
S86	S146	E206	T326	N386	K446	E506
Y87	L147	G207	Q327	P387	H447	L507
P88	P148	Y208	G328	S388	A448	T508
N89	Q149	A209	N329	N389	G449	G509
A90	A150	I210	R330	P390	G450	N510
T91	L151	S211	I331	G391	F451	E511
E92	A152	P212	V332	L392	G452	T512
T93	G153	Y213	T333	P393	E453	R513
V94	A154	T214	G334	D394	H454	P514
Y95	D155	F215	N335	K395	D455	W515
G96	D156	M216	E336	R396	D456	N516
L97	T157	N217	E337	G397	L457	T517
T98	T158	S218	D338	L398	G458	S518
R99	A159	S219	R339	F399	A459	L519
Y100	M160	S220	T340	V400	F460	N520
S101	T161	T221	I341	R401	G461	Y521
T102	P162	E222	P342	G402	N462	T522
N103	L163	E223	V343	S403	T463	I523
D104	K164	Y224	G344	G404	R464	K524
E105	T165	K225	A345	R405	R465	V525
A106	Q166	G226	I346	G406	S466	K526
I107	Q167	V227	M347	S407	N467	E527
A108	L168	I228	M348	H408	F468	
G109	A169	K229	W349	L409	V469	
V110	I170	T230	A350	T410	G470	
N111	K171	G231	R291	N411	T471	
N112	L172	T232	G292	P412	R472	
E113	I173	Q233	S353	N413	G473	
S114	A174	S234	G294	V414	L475	
S115	Q175	E235	I295	N415	D476	
I116	I176	V236	I296	G416	V477	
T117	A177	N237	D357	N417	D478	
P118	P178	S238	A358	D418	N479	
A119	S179	N239	W359	Q419	R480	
K120	E180	L300	R360	F420		

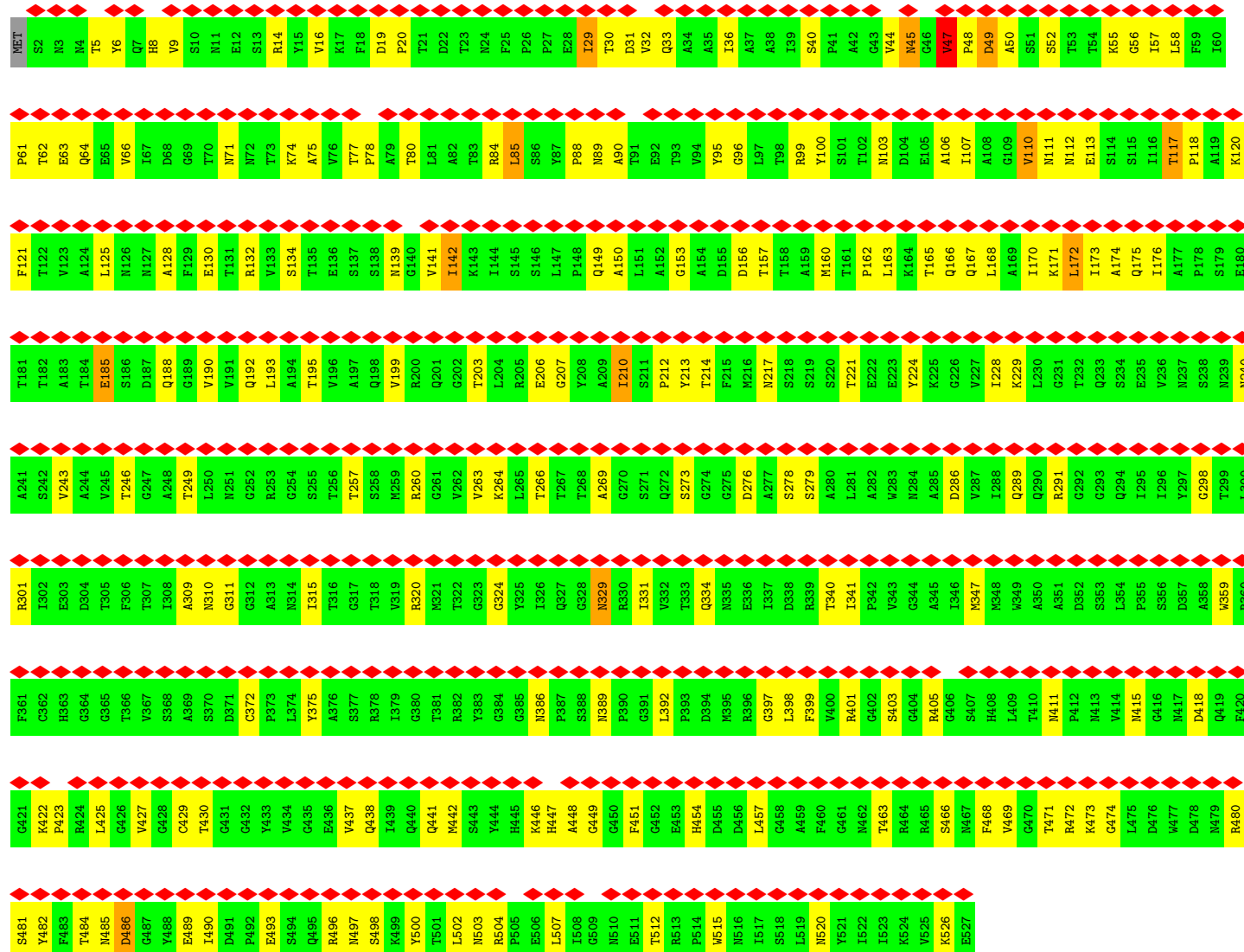
• Molecule 1: gp12, short tail fiber protein



MET	P61	F121	T181	A241
S2	T62	T122	T182	S242
N3	E63	V123	A183	V243
N4	Q64	A124	T184	A244
T5	E65	L125	E185	V245
Y6	V66	N126	S186	T246
Q7	I67	M127	D187	G247
H8	D68	A128	Q188	A248
V9	G69	F129	G189	T249
S10	T70	E130	V190	L250
M11	N71	T131	V191	N251
E12	N72	R132	Q192	G252
S13	T73	V133	L193	R253
R14	K74	S134	A194	E134
Y15	A75	T135	T195	S255
V16	V76	E136	V196	T256
K17	T77	S137	A197	T257
F18	P78	N138	Q198	S258
D19	A79	M139	V199	M259
P20	T80	G140	R200	R260
T21	L81	V141	Q201	G261
D22	A82	I142	G202	V262
T23	T83	K143	T203	V263
N24	R84	I144	L204	K264
F25	L85	S145	R205	L265
P26	S86	S146	E206	T266
P27	Y87	L147	G207	T267
E28	P88	P148	Y208	T268
I29	N89	Q149	A209	A269
T30	A90	A150	I210	G270
D31	T91	L151	S211	S271
V32	E92	A152	P212	Q272
Q33	T93	G153	Y213	Q273
A34	V94	A154	T214	G274
A35	Y95	D155	F215	G275
I36	G96	D156	M216	D276
A37	L97	T157	N217	A277
A38	T98	T158	S218	S278
I39	R99	A159	S219	S279
S40	Y100	M160	S220	A280
P41	S101	T161	T221	L281
A42	T102	P162	E222	T282
G43	N103	L163	E223	W283
V44	D104	K164	Y224	N284
N45	E105	T165	K225	A285
G46	A106	Q166	G226	D286
V47	I107	Q167	V227	T287
P48	A108	L168	I228	I288
D49	G109	A169	K229	K289
A50	V110	I170	L230	V289
S51	M111	K171	G231	R291
S52	N112	L172	T232	G292
T53	E113	I173	Q233	S293
T54	S114	A174	Q234	G294
K55	S115	Q175	E235	I295
I56	T116	I176	V236	I296
I57	T117	A177	N237	I297
L58	P118	P178	S238	Q298
F59	A119	S179	N239	T299
T60	K120	E180	L300	

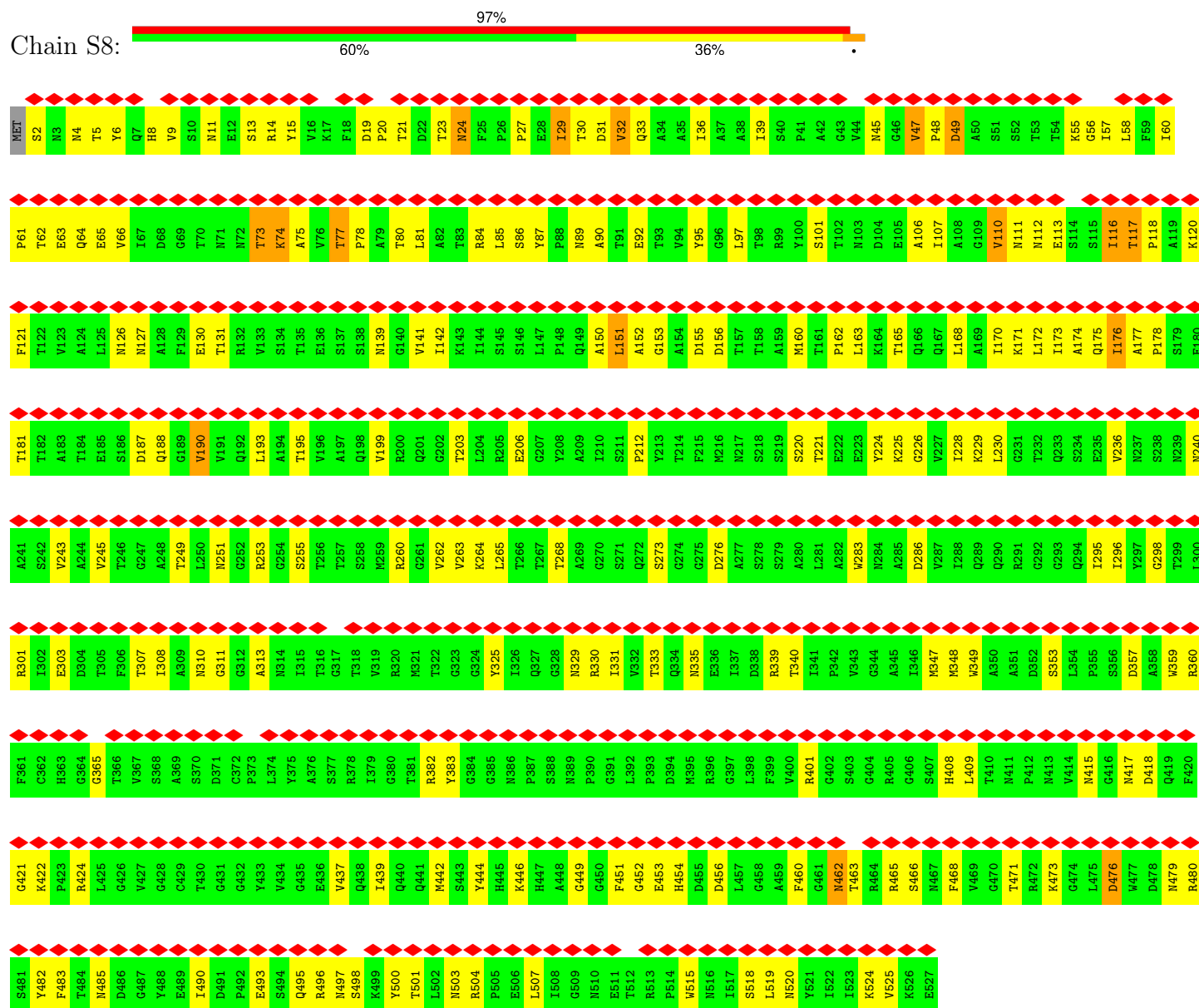


- Molecule 1: gp12, short tail fiber protein



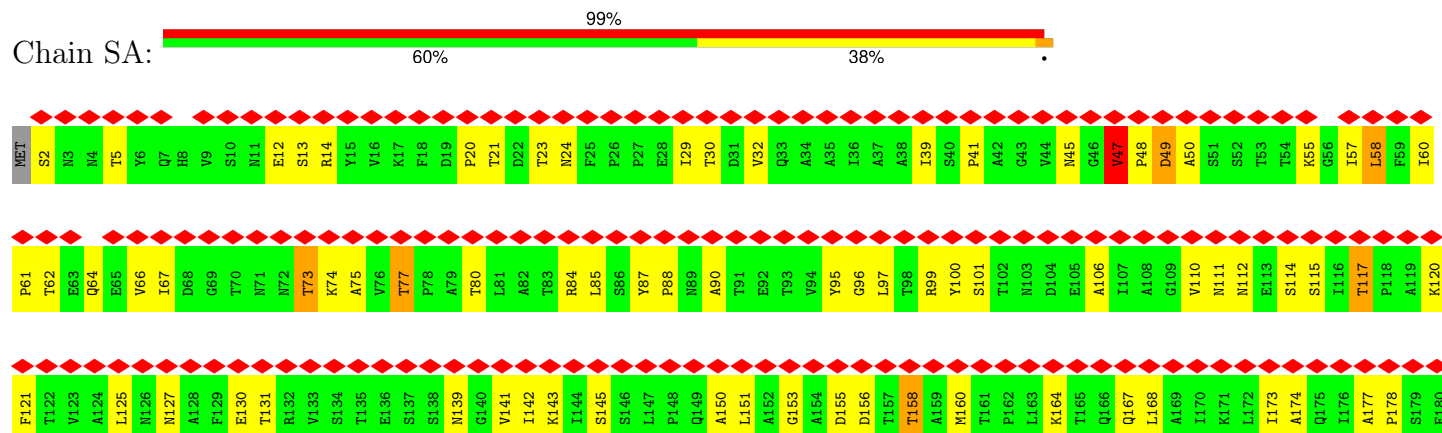
- Molecule 1: gp12, short tail fiber protein

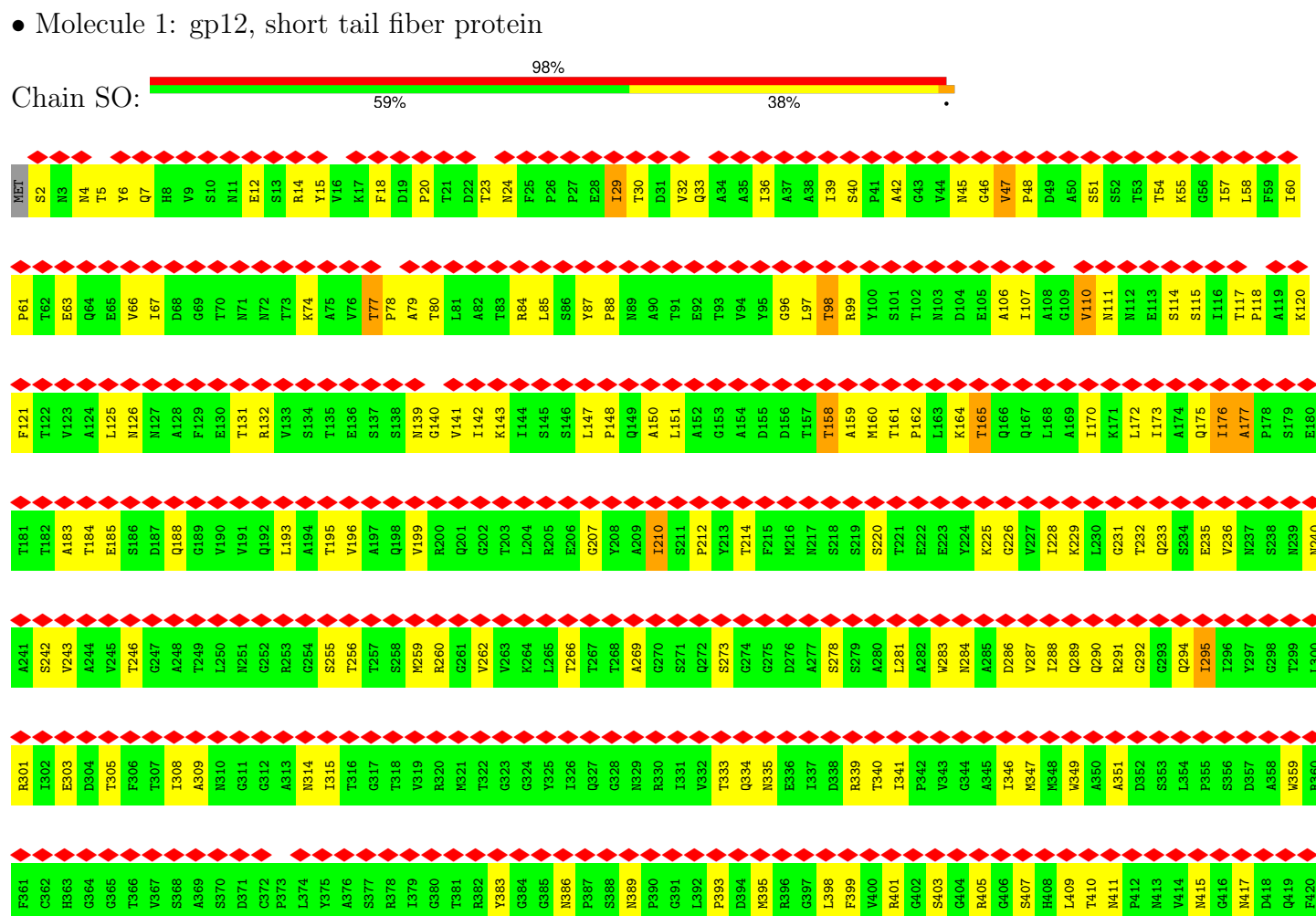
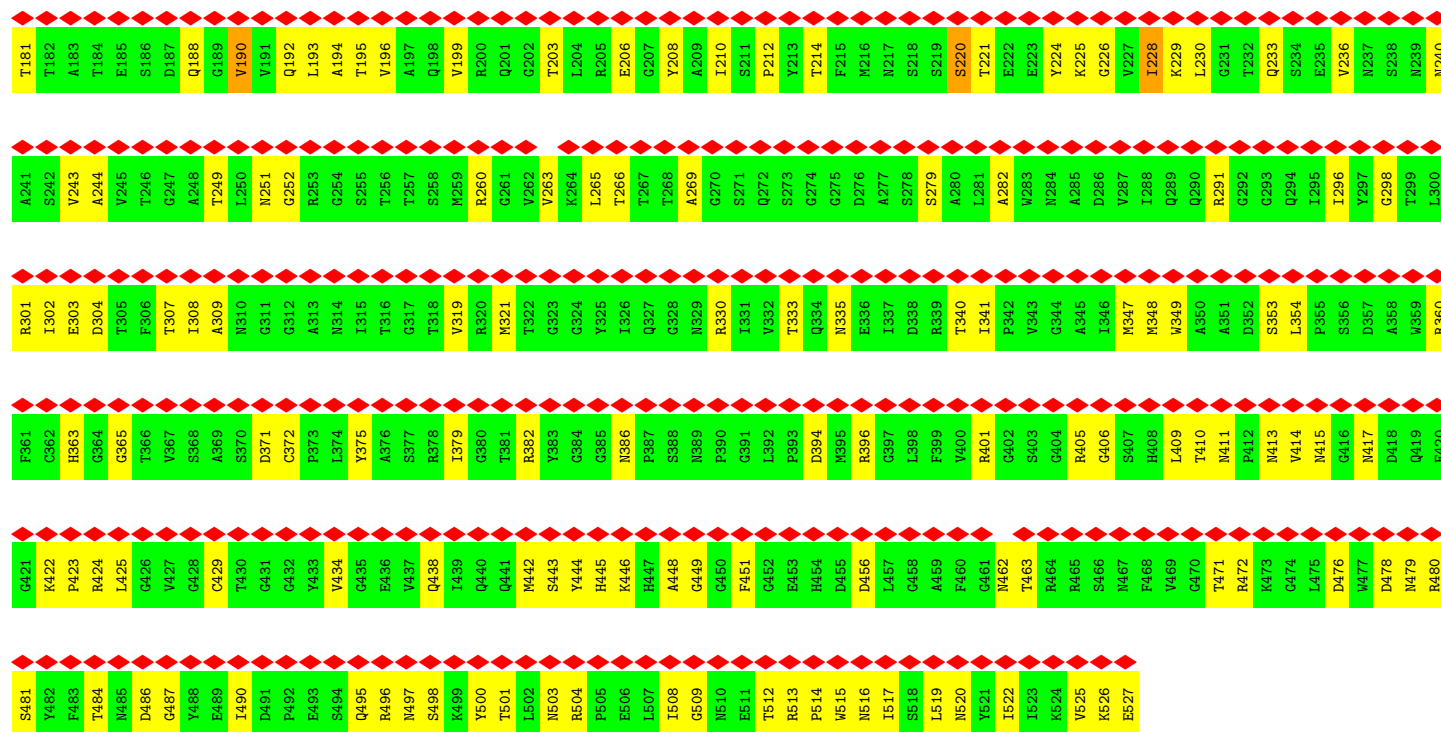
Chain S8:

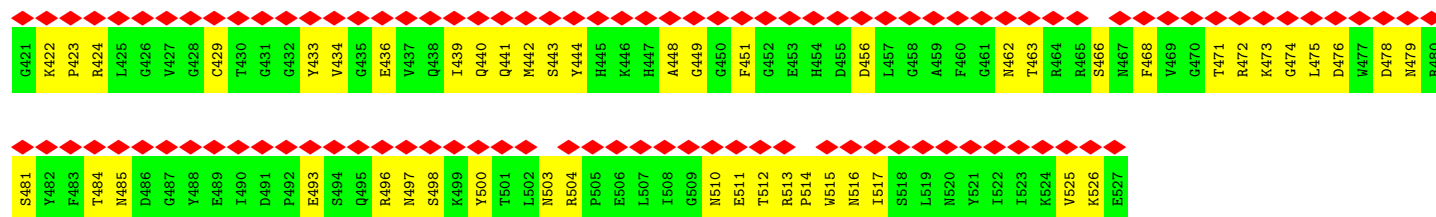


- Molecule 1: gp12, short tail fiber protein

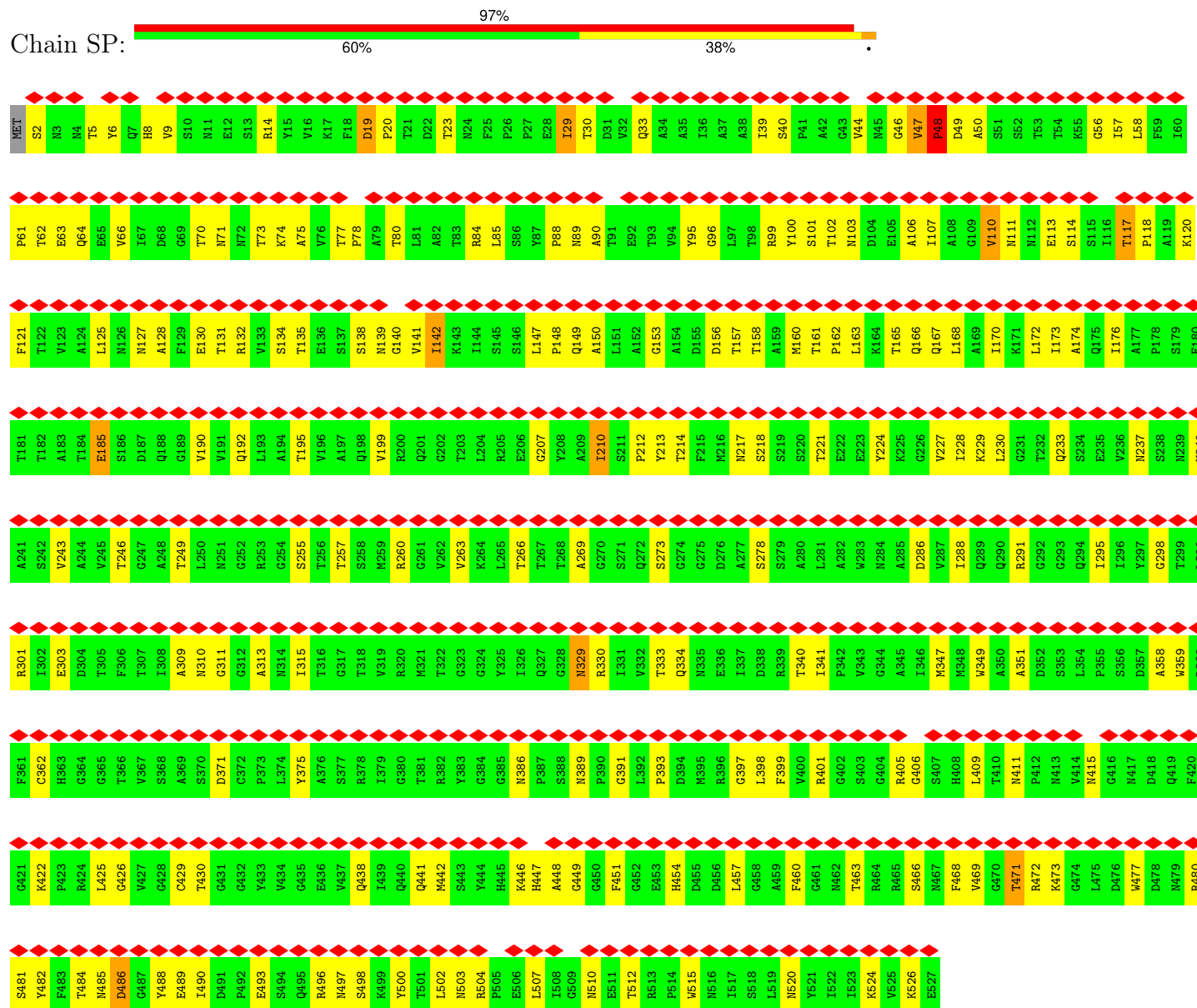
Chain SA:



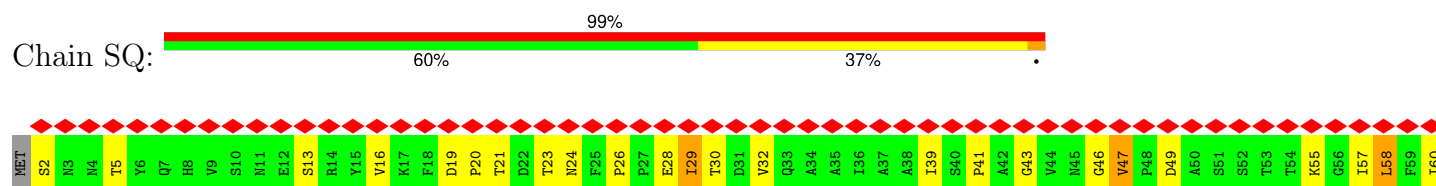


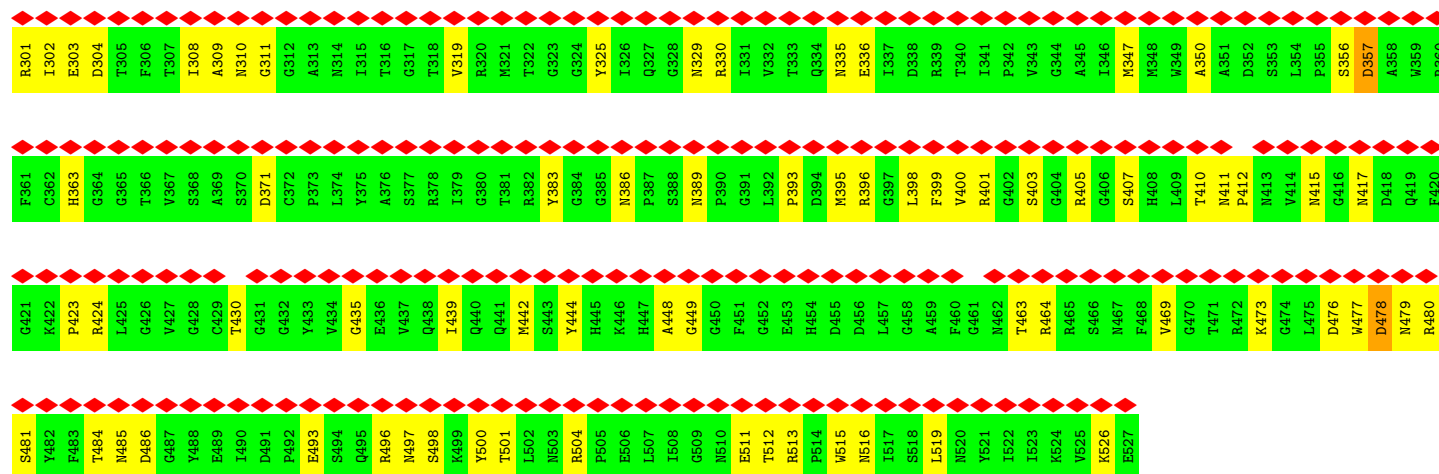


- Molecule 1: gp12, short tail fiber protein

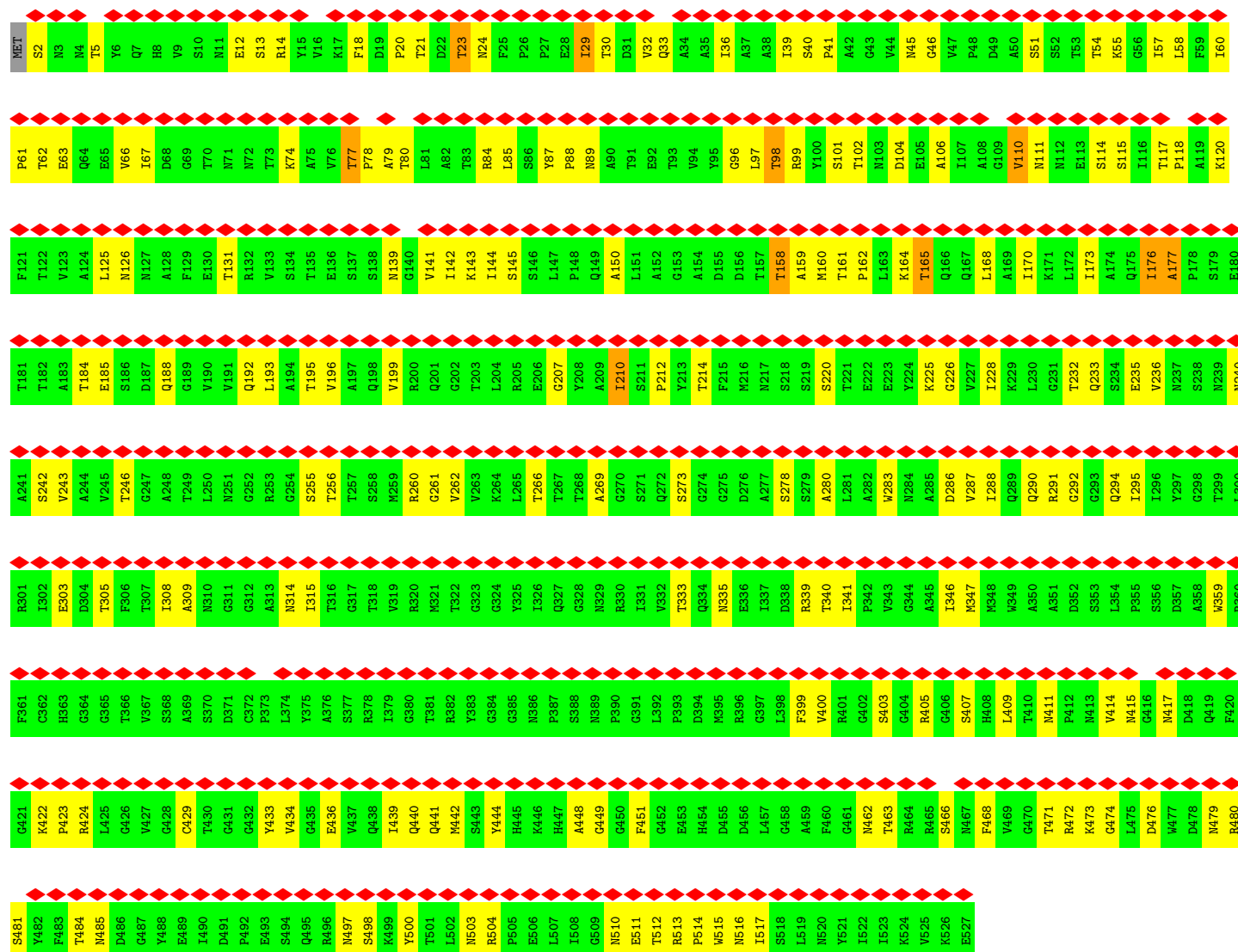


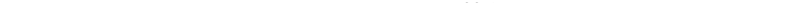
- Molecule 1: gp12, short tail fiber protein

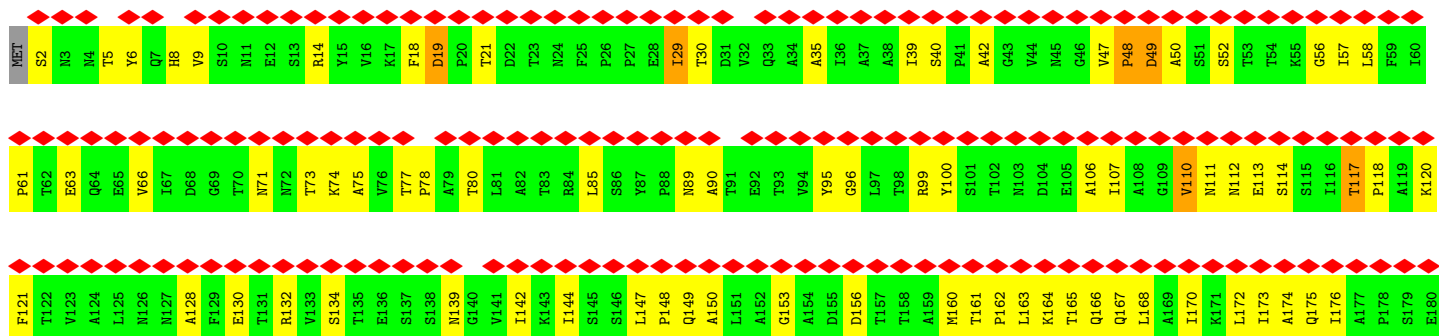


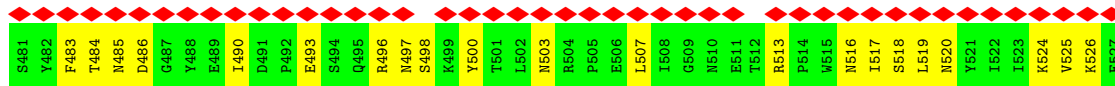


- Molecule 1: gp12, short tail fiber protein

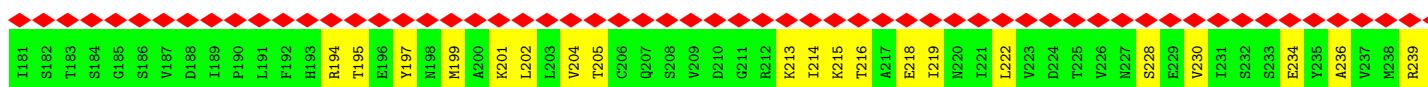
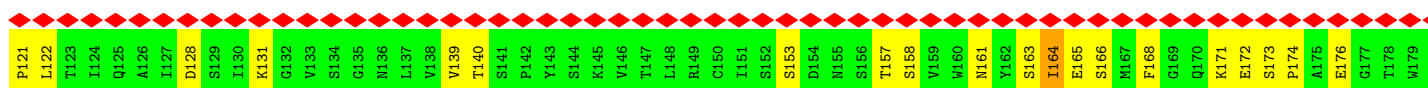
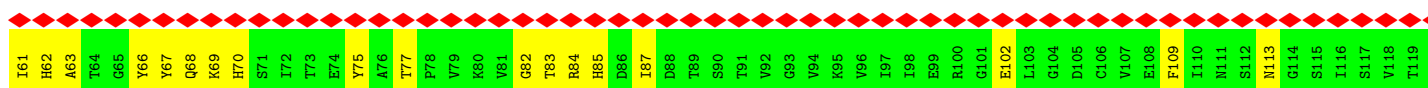


- Chain Sx: 

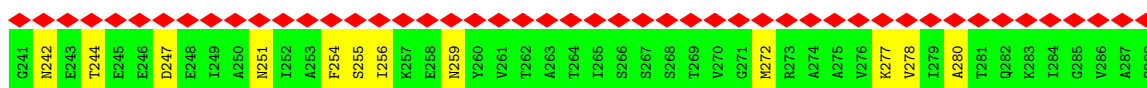
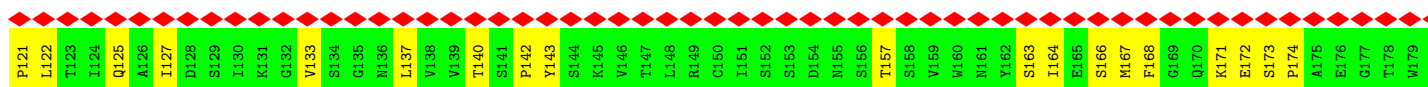
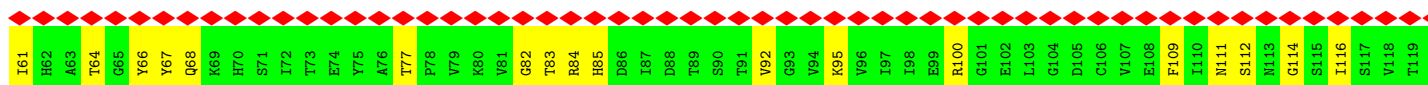




• Molecule 2: gp9, baseplate wedge tail fiber connector

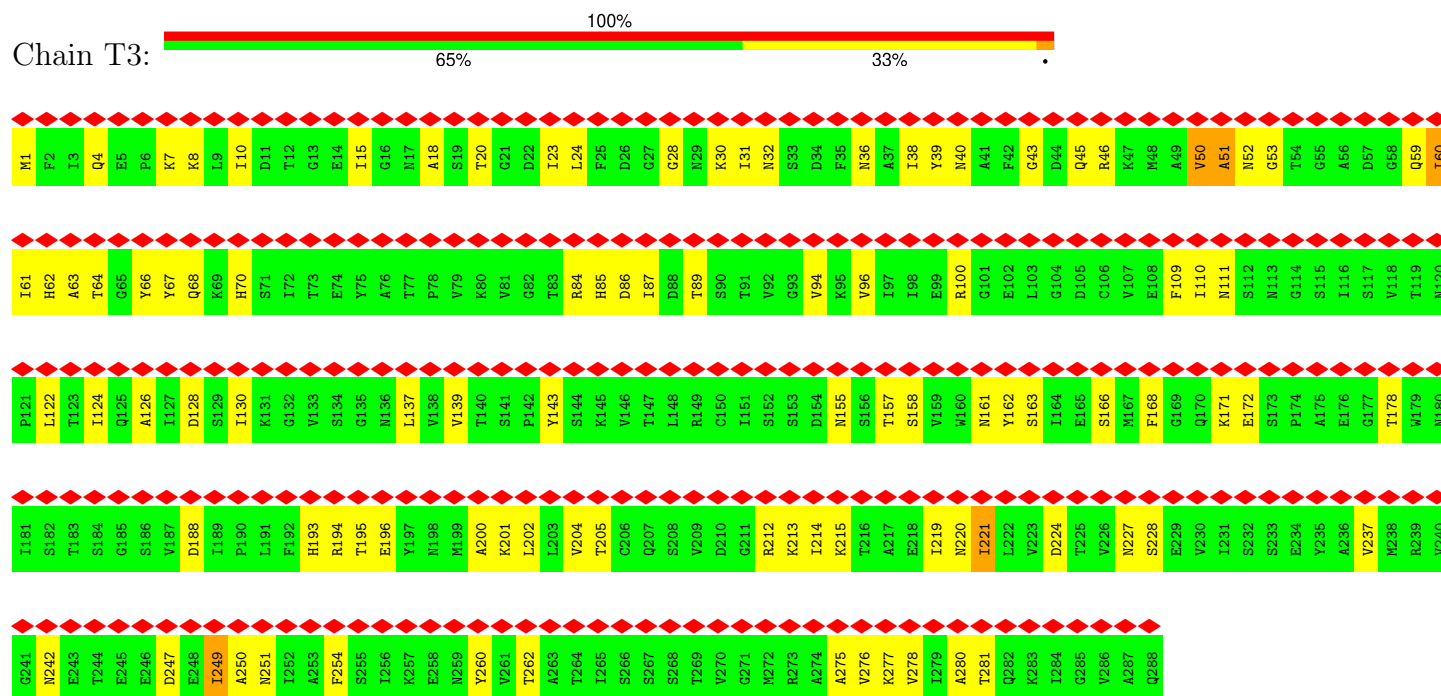


• Molecule 2: gp9, baseplate wedge tail fiber connector



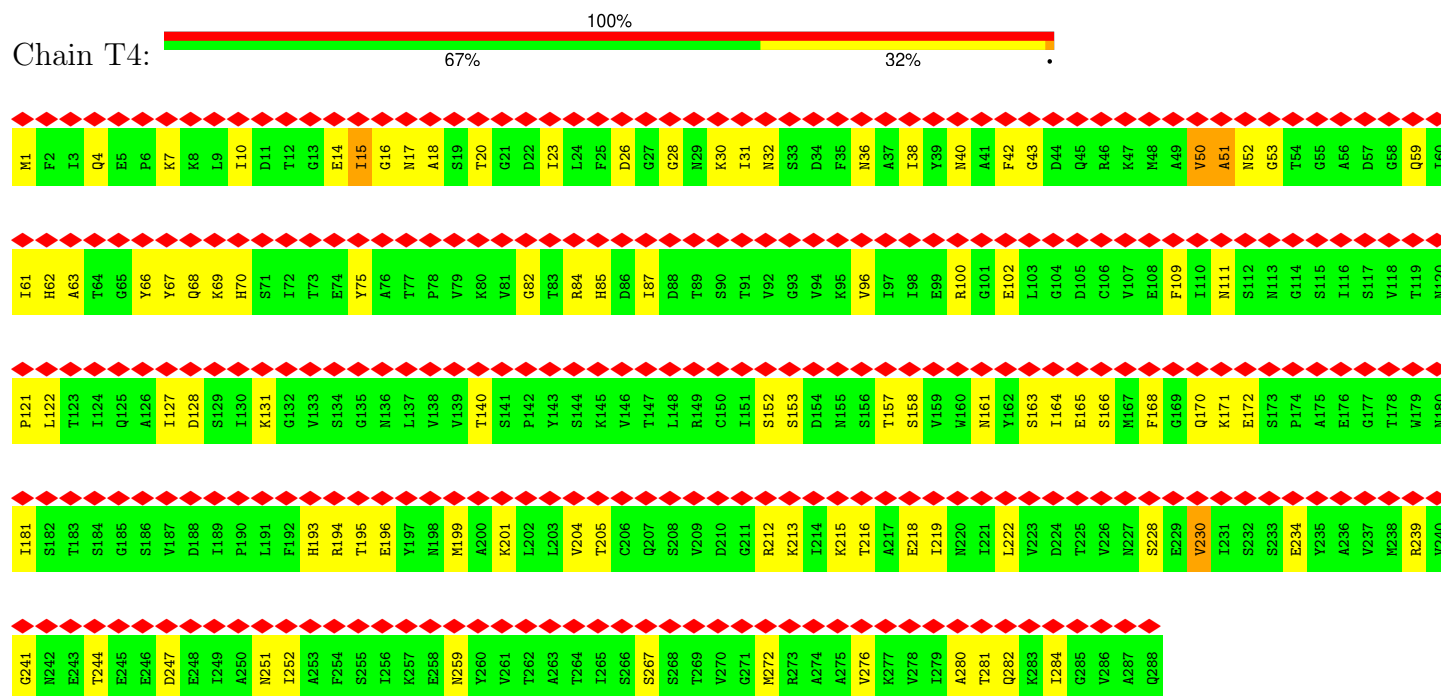
- Molecule 2: gp9, baseplate wedge tail fiber connector

Chain T3:



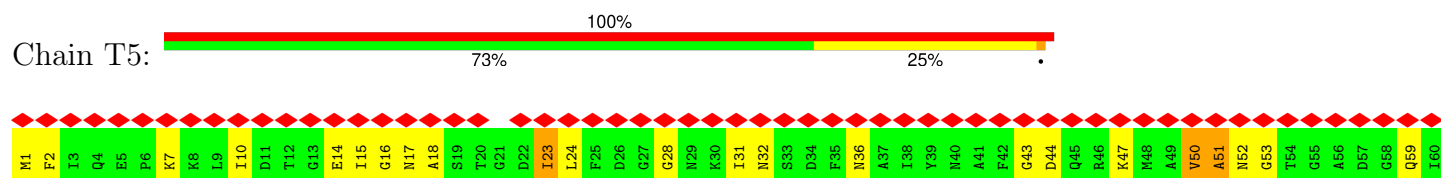
- Molecule 2: gp9, baseplate wedge tail fiber connector

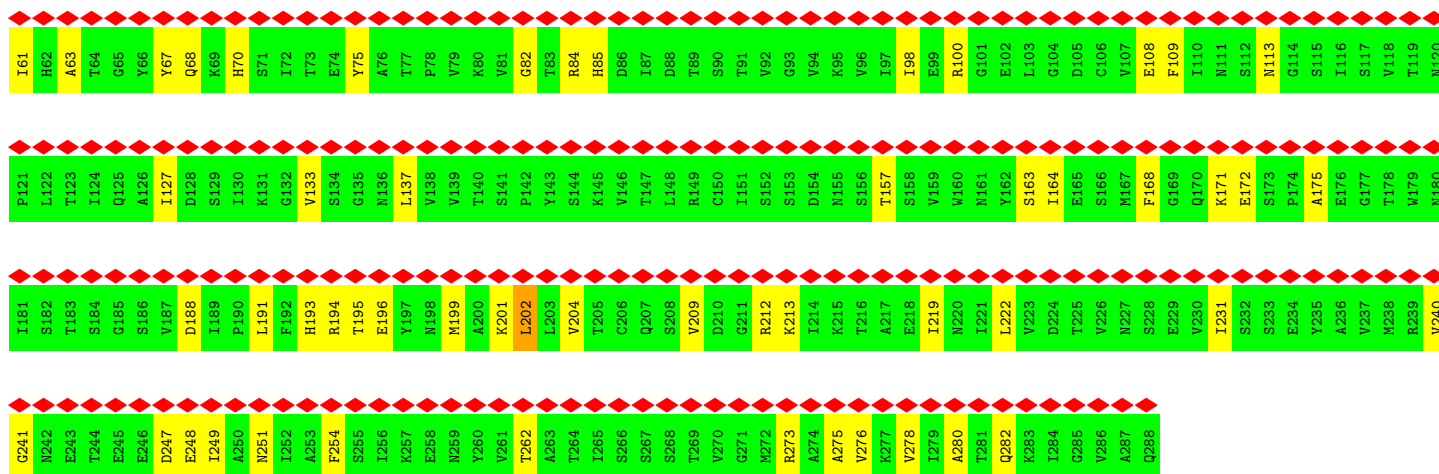
Chain T4:



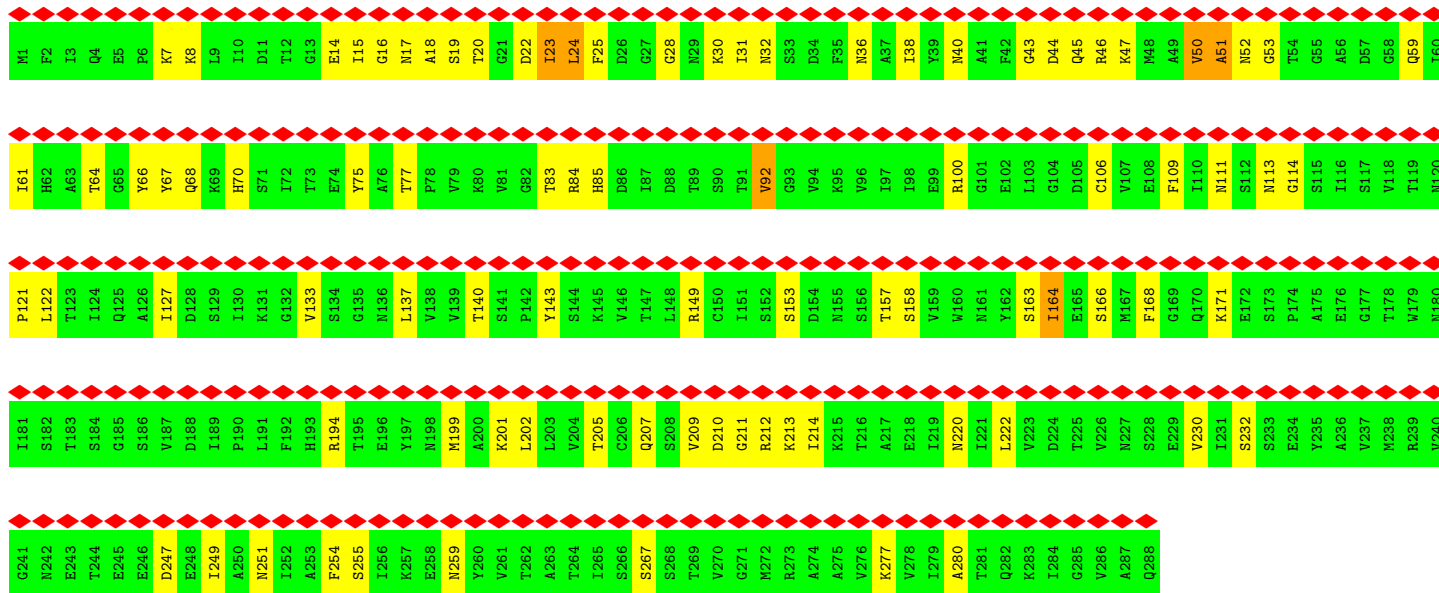
- Molecule 2: gp9, baseplate wedge tail fiber connector

Chain T5:

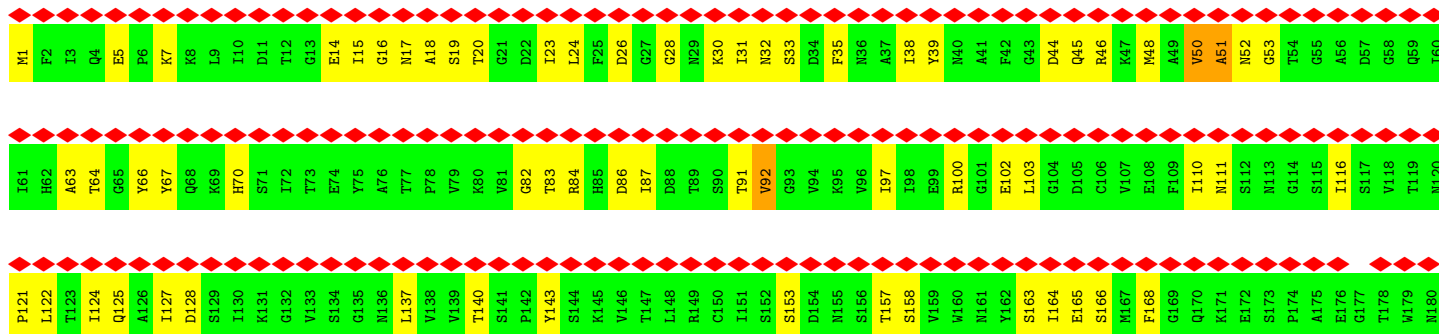


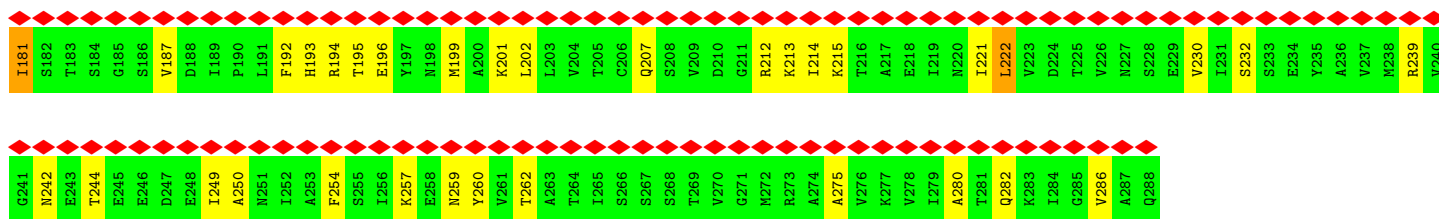


- Molecule 2: gp9, baseplate wedge tail fiber connector

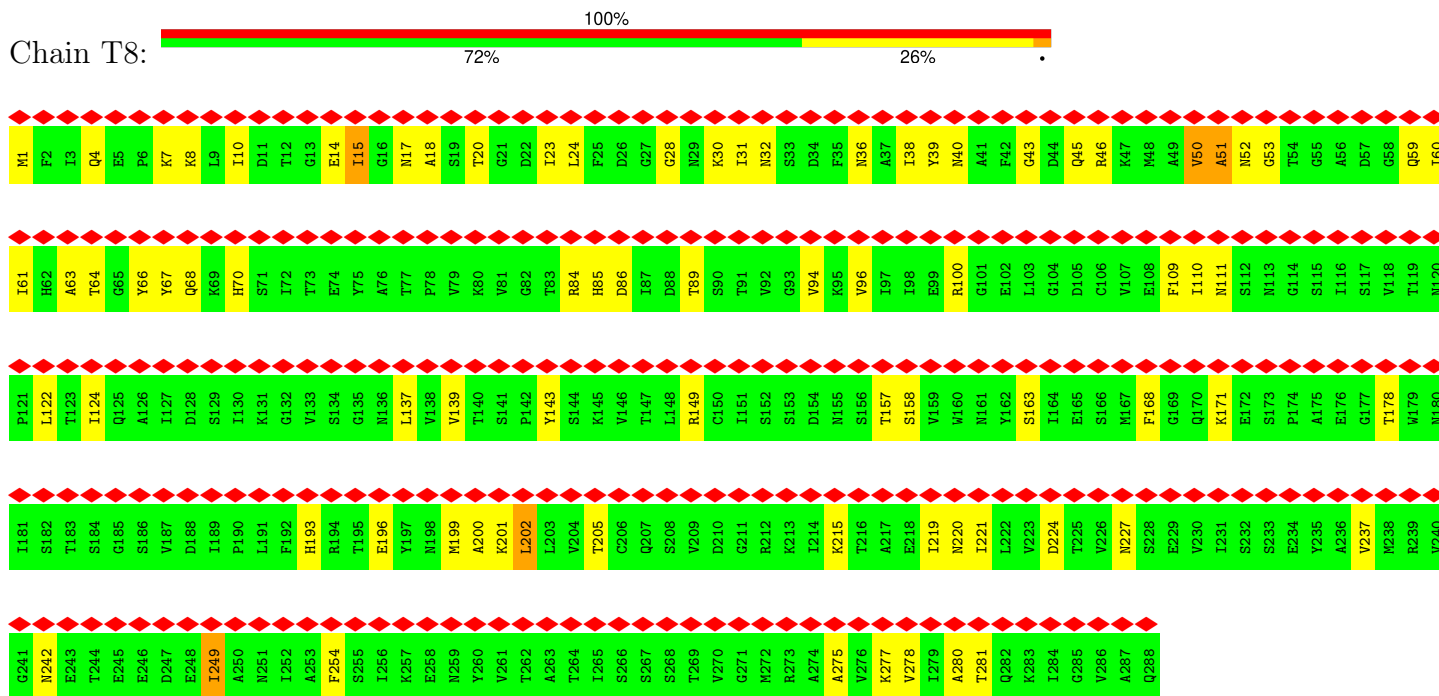


- Molecule 2: gp9, baseplate wedge tail fiber connector

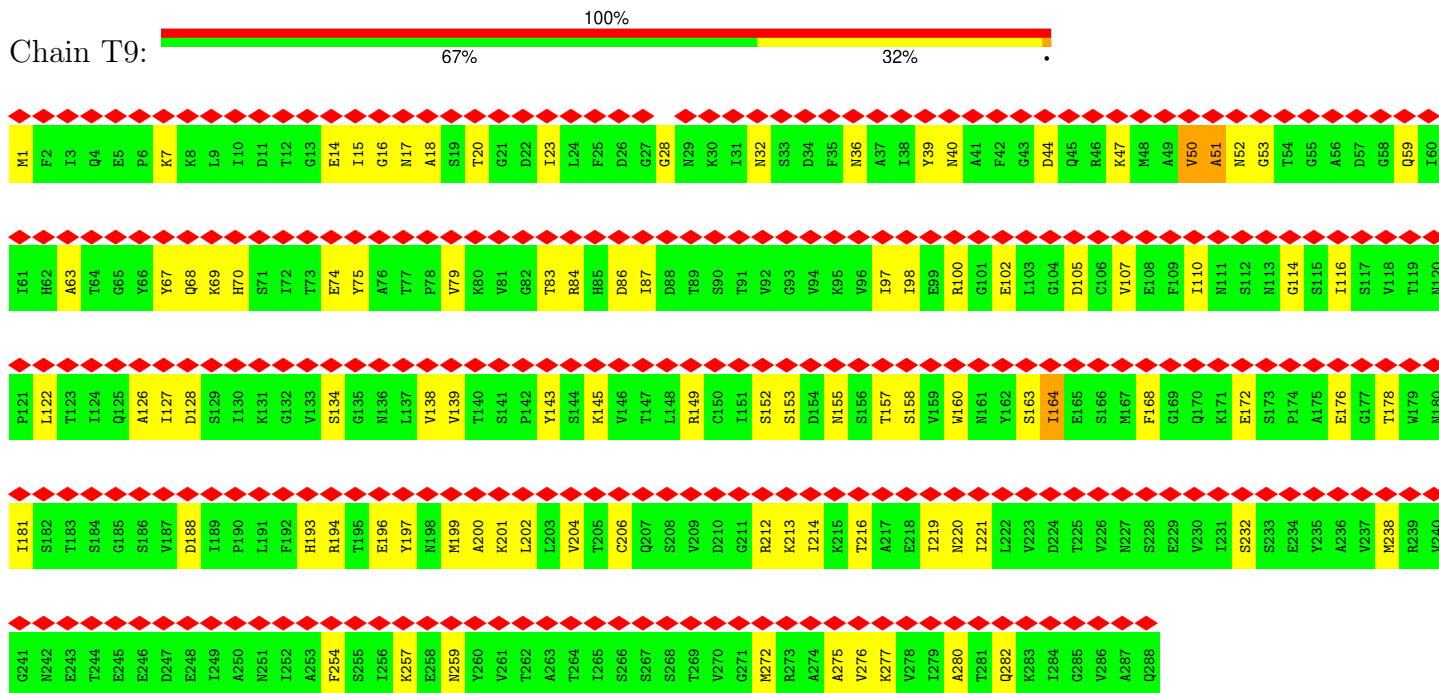




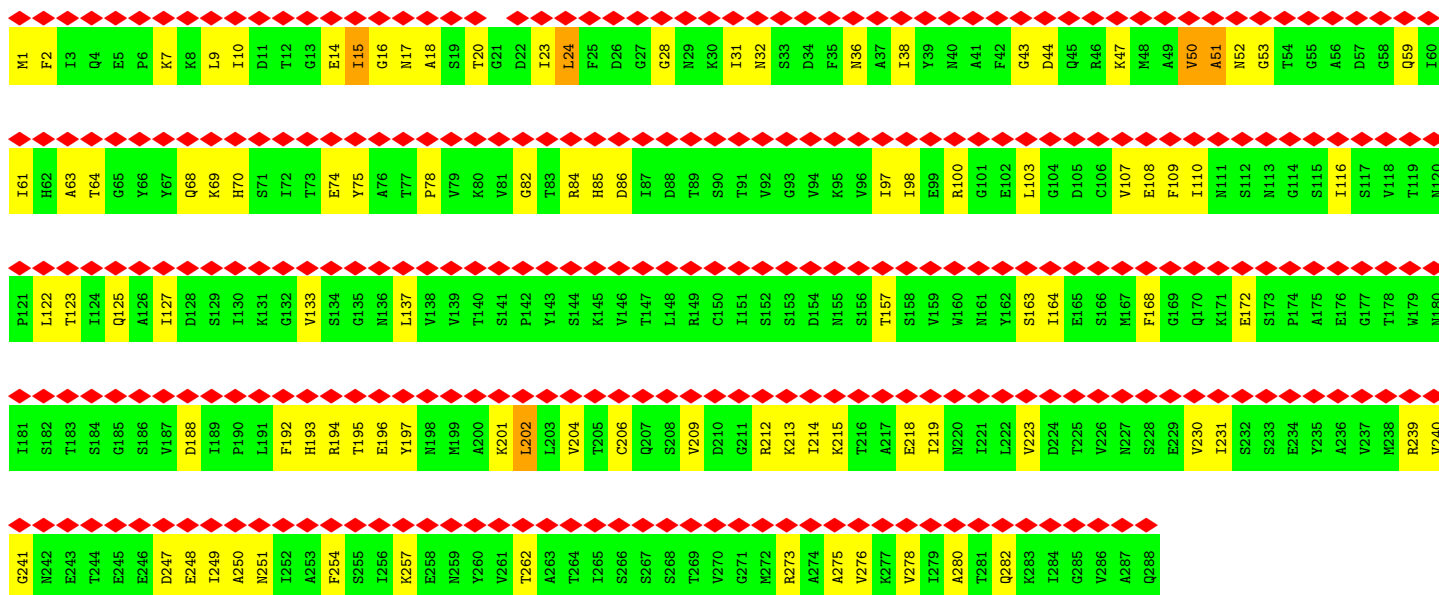
- Molecule 2: gp9, baseplate wedge tail fiber connector



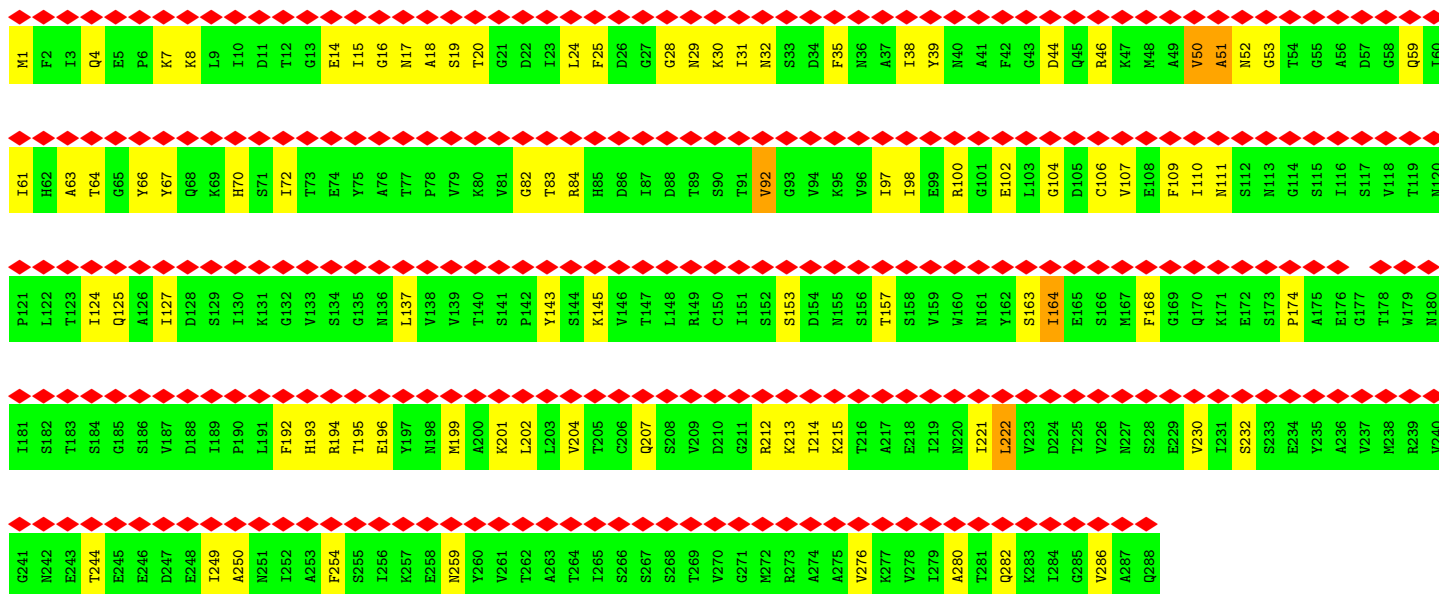
- Molecule 2: gp9, baseplate wedge tail fiber connector



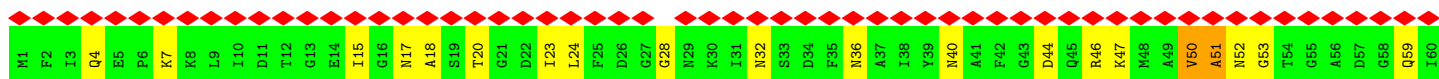
- Molecule 2: gp9, baseplate wedge tail fiber connector

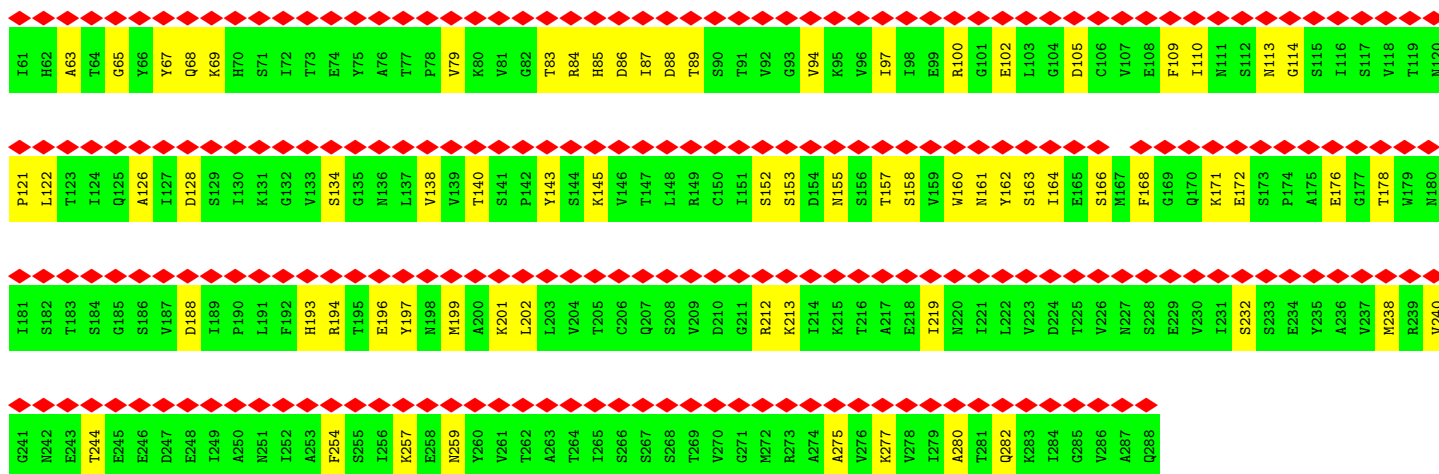


- Molecule 2: gp9, baseplate wedge tail fiber connector

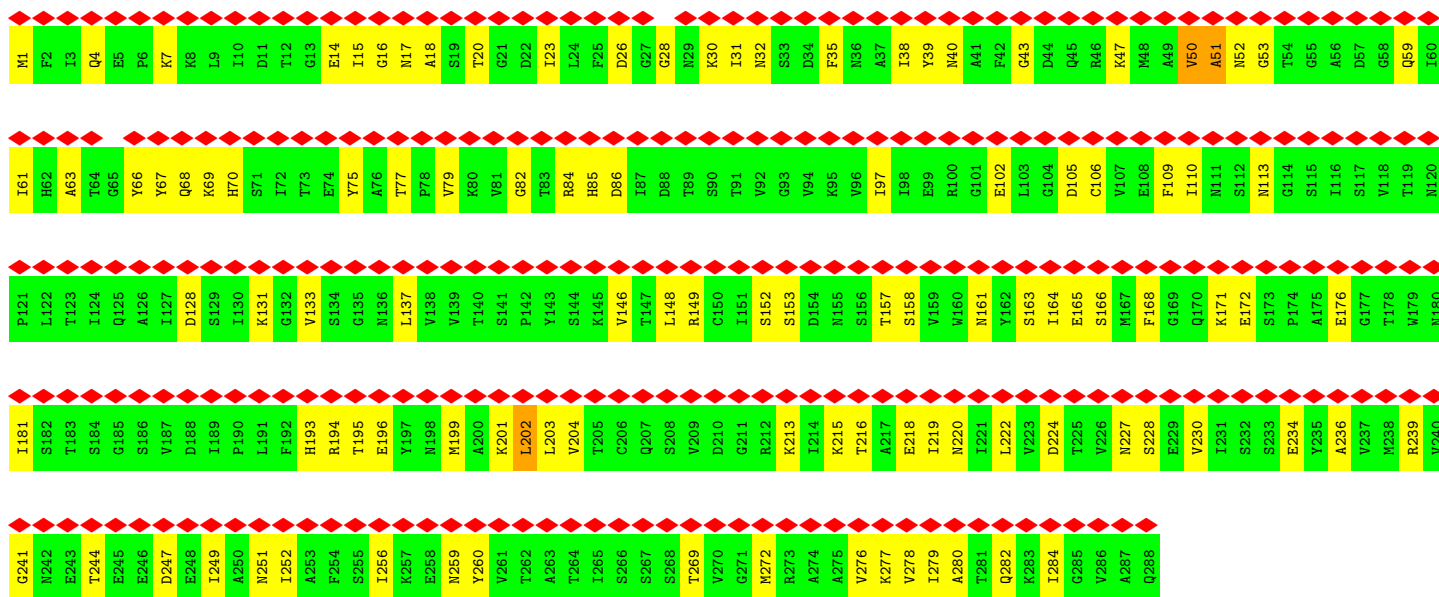


- Molecule 2: gp9, baseplate wedge tail fiber connector

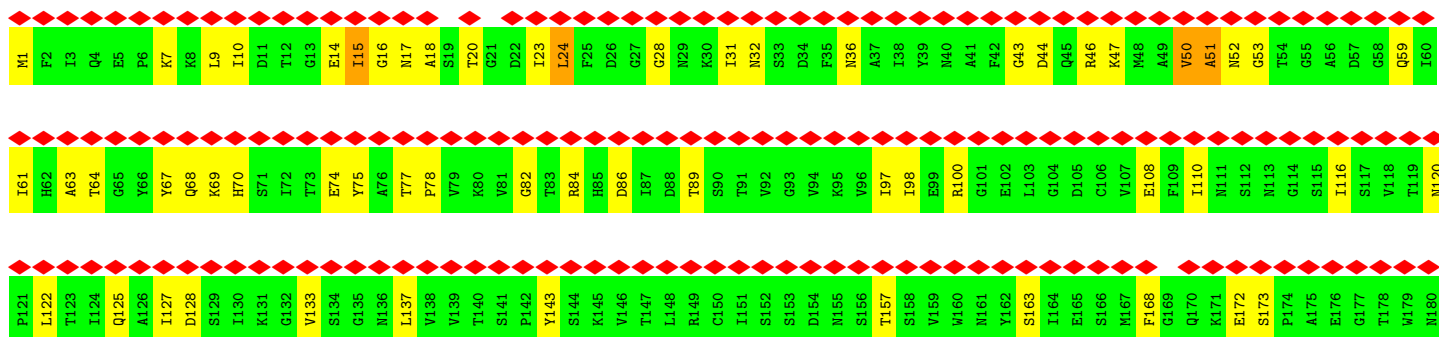


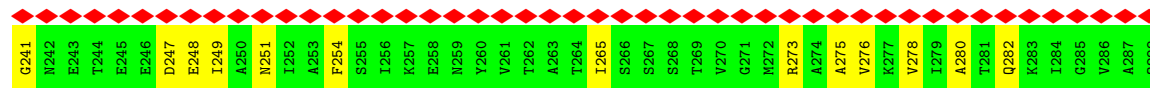
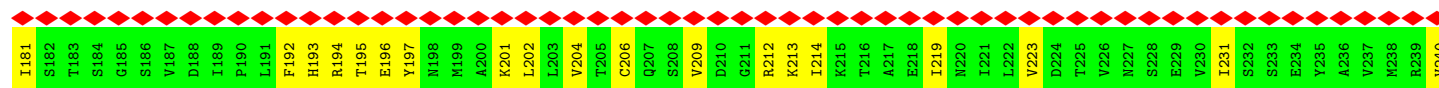


- Molecule 2: gp9, baseplate wedge tail fiber connector

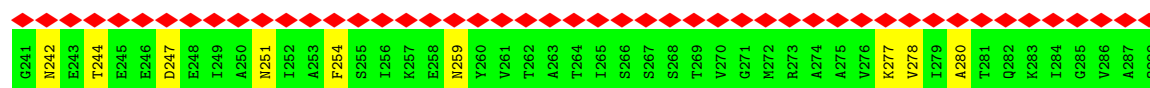
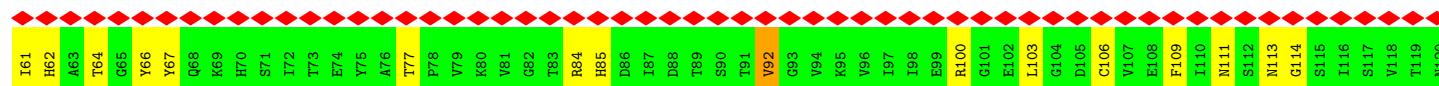
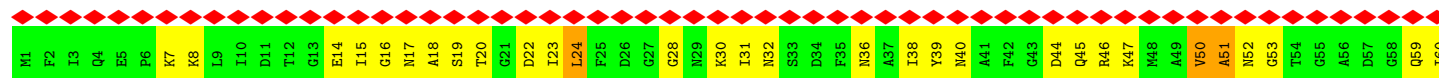
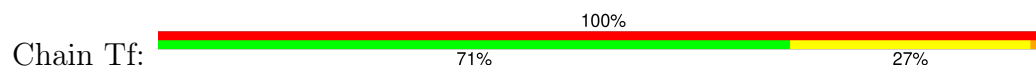


- Molecule 2: gp9, baseplate wedge tail fiber connector

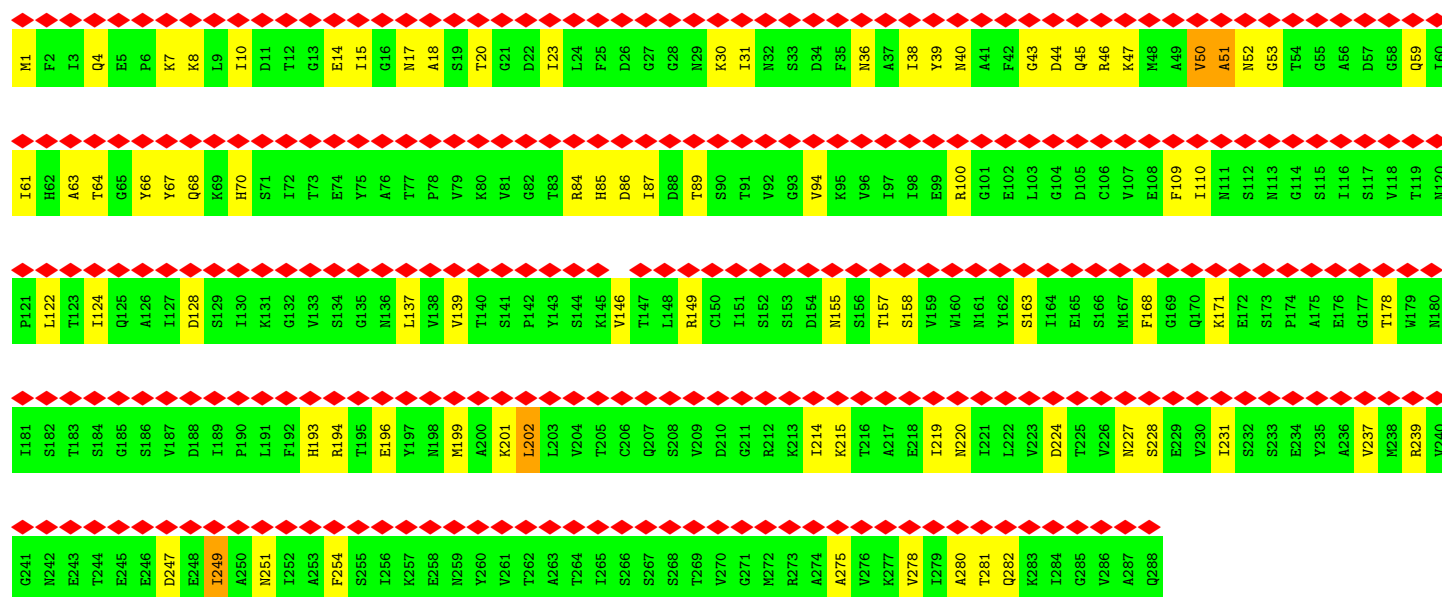
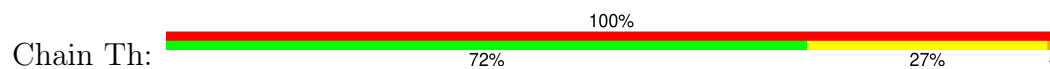




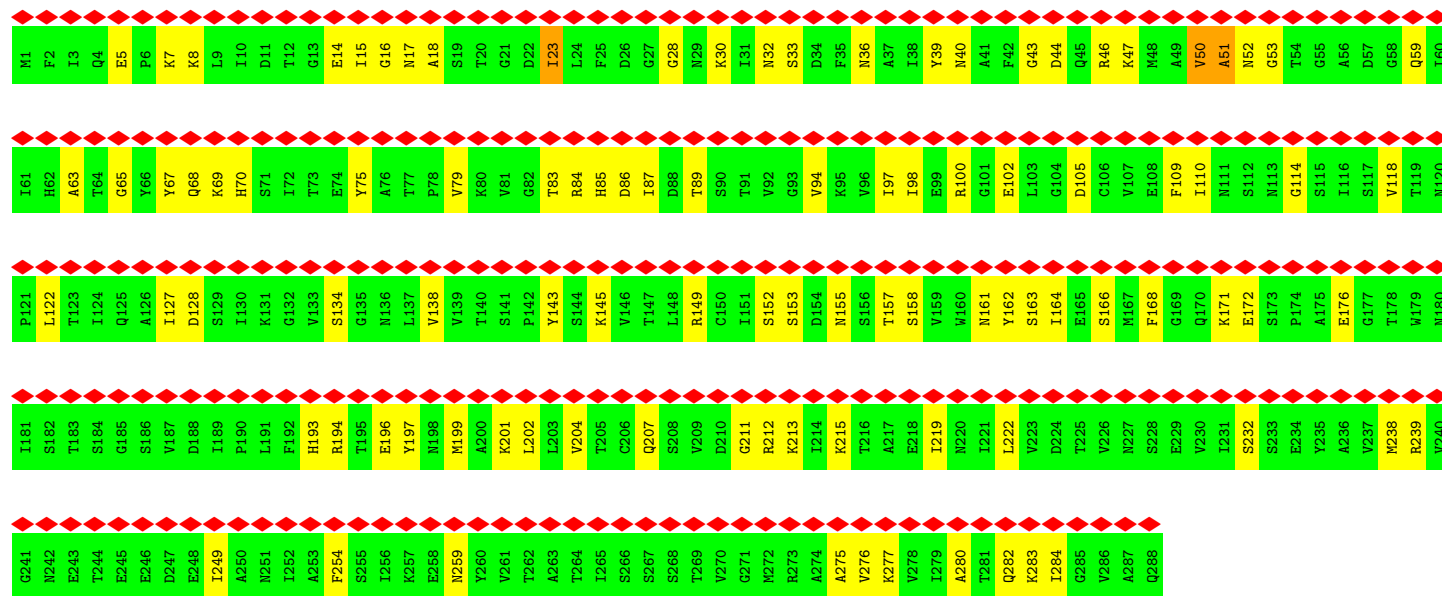
• Molecule 2: gp9, baseplate wedge tail fiber connector



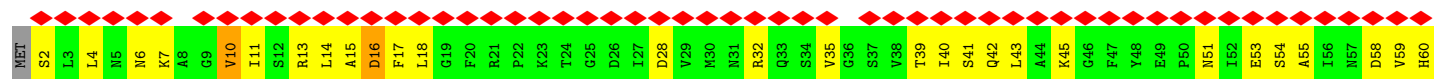
- Molecule 2: gp9, baseplate wedge tail fiber connector

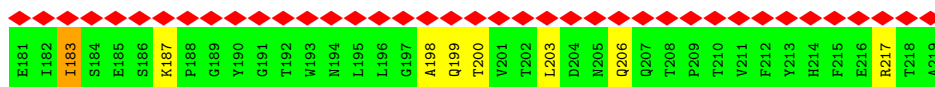
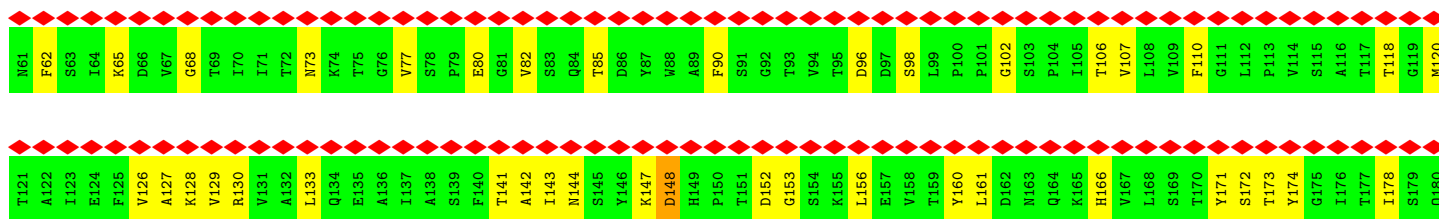


- Molecule 2: gp9, baseplate wedge tail fiber connector

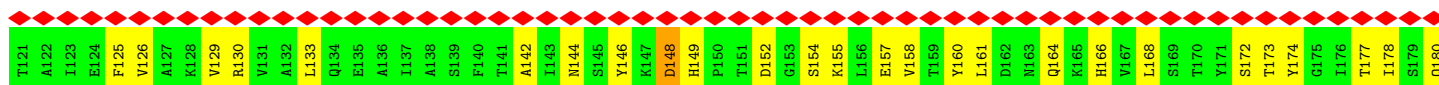
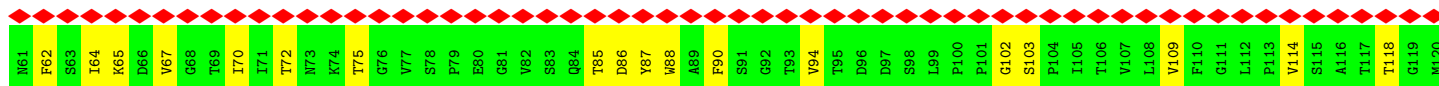
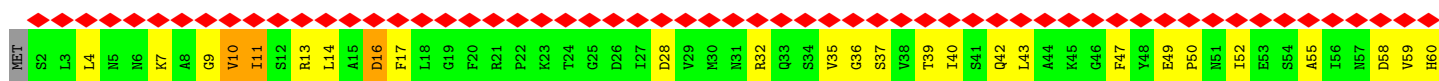


- Molecule 3: gp11, baseplate wedge protein

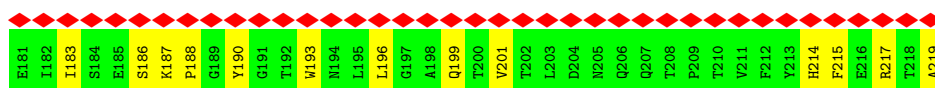




• Molecule 3: gp11, baseplate wedge protein

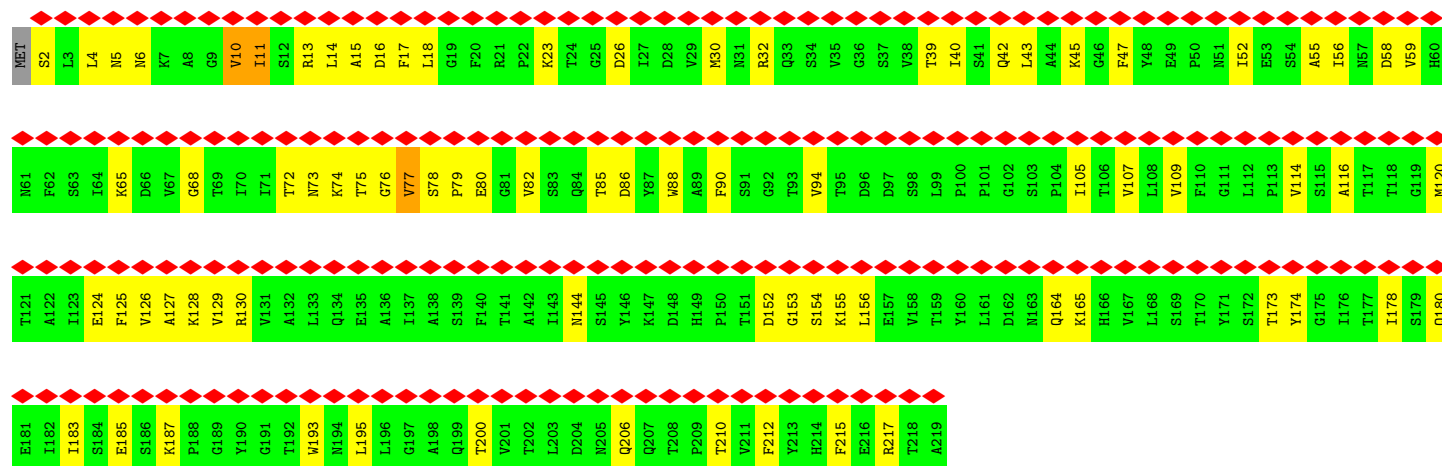


• Molecule 3: gp11, baseplate wedge protein

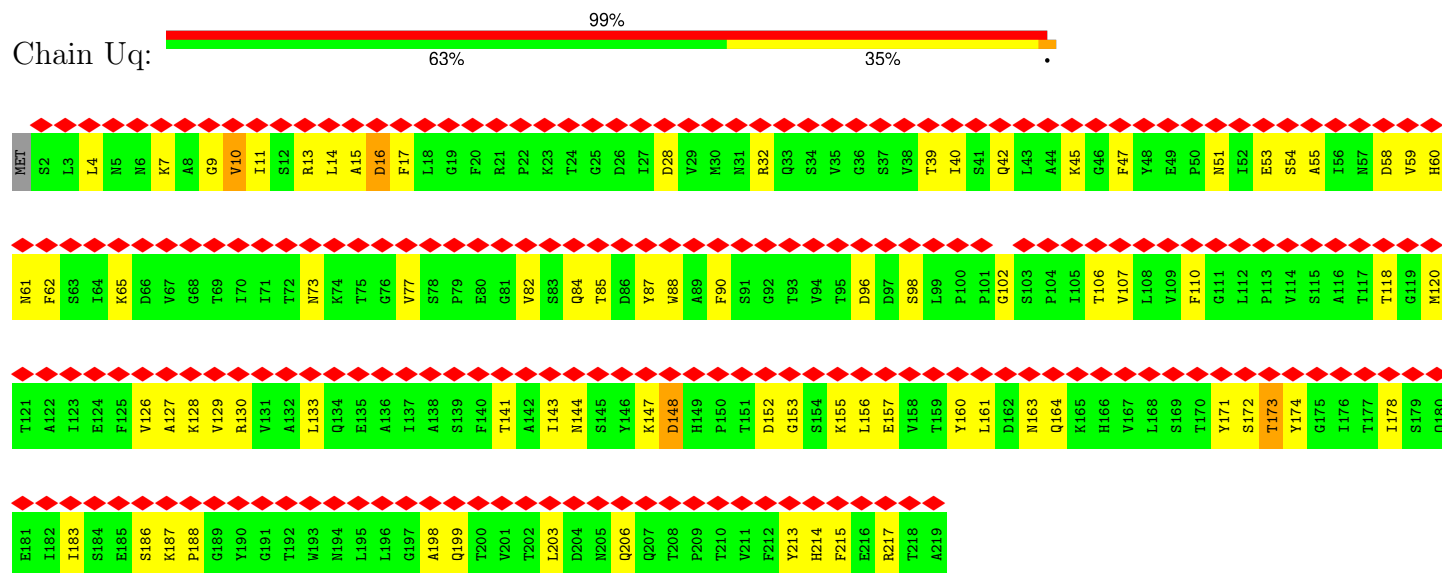


• Molecule 3: gp11, baseplate wedge protein





• Molecule 3: gp11, baseplate wedge protein



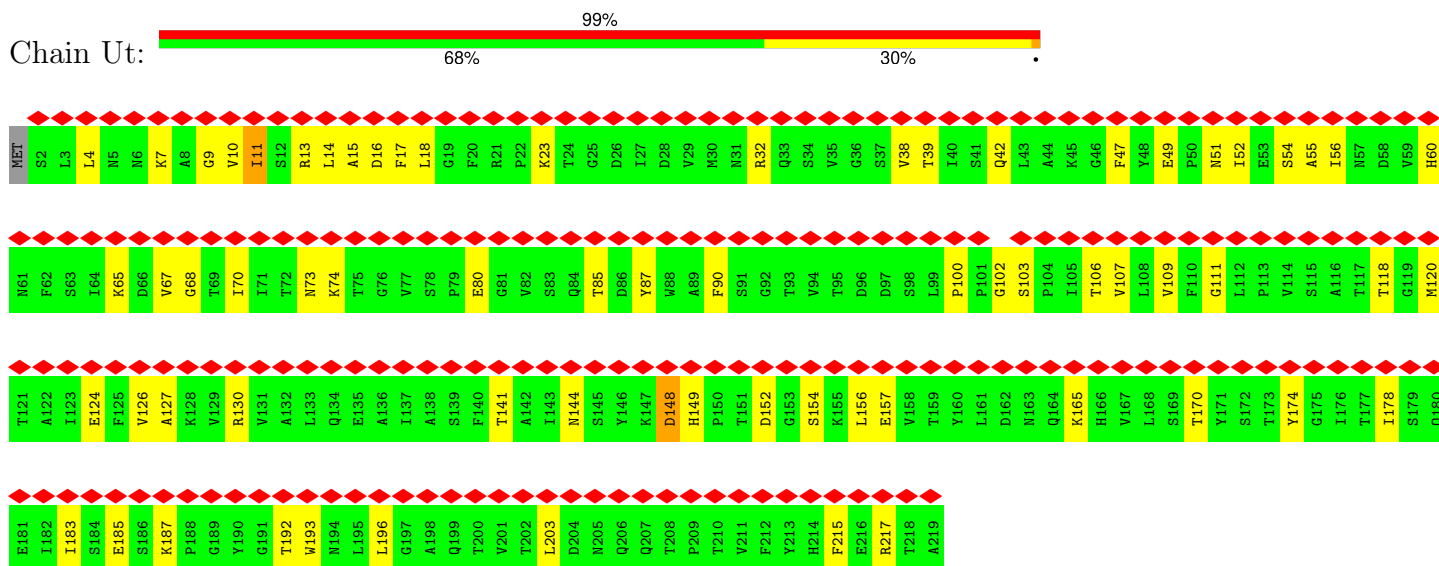
• Molecule 3: gp11, baseplate wedge protein



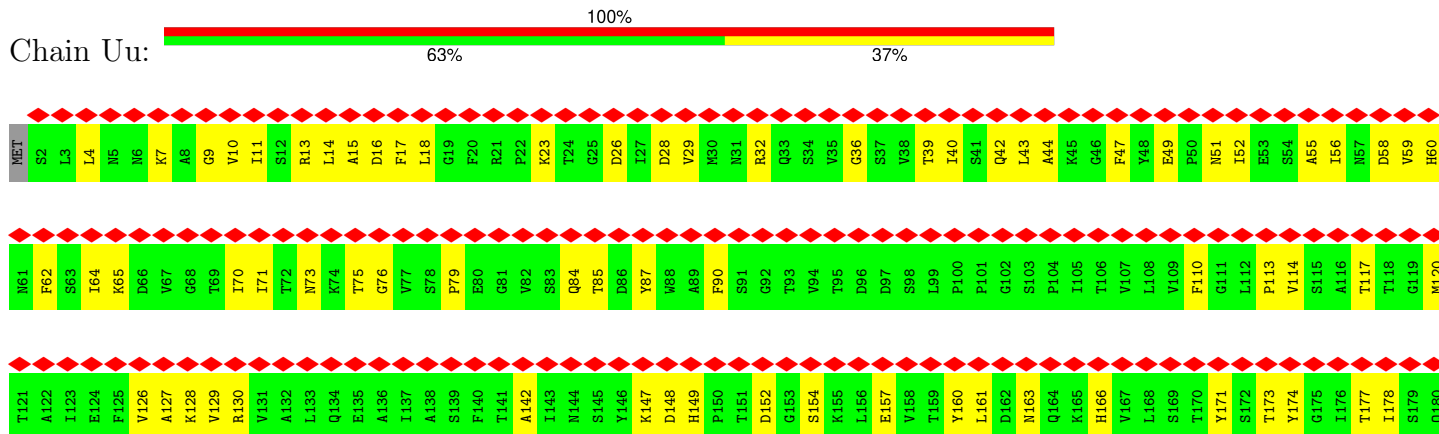
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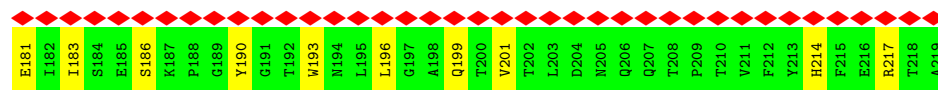


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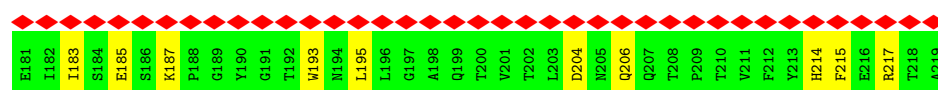


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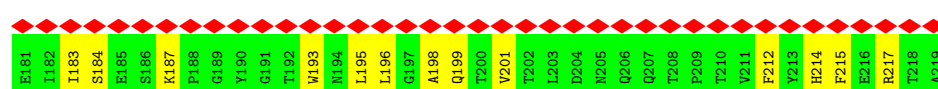
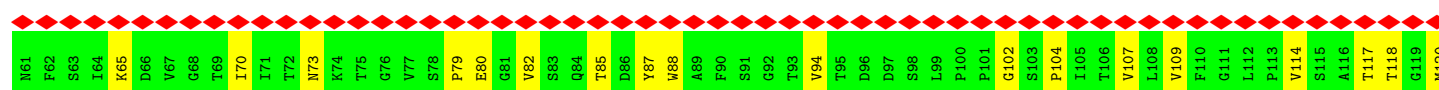




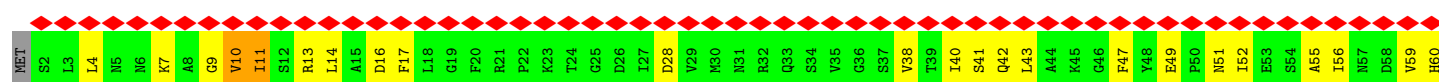
- Molecule 3: gp11, baseplate wedge protein

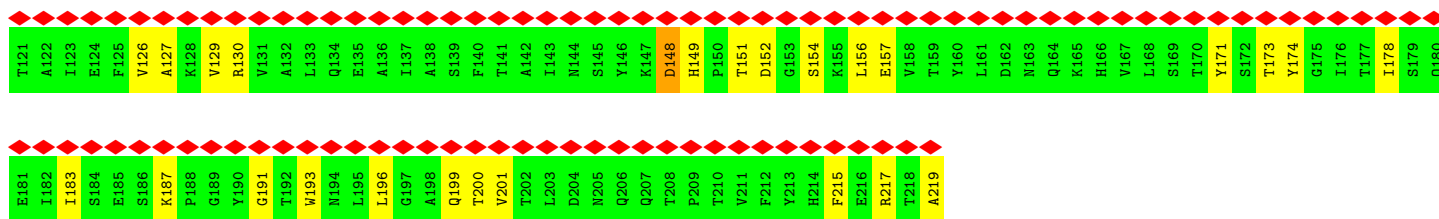


- Molecule 3: gp11, baseplate wedge protein

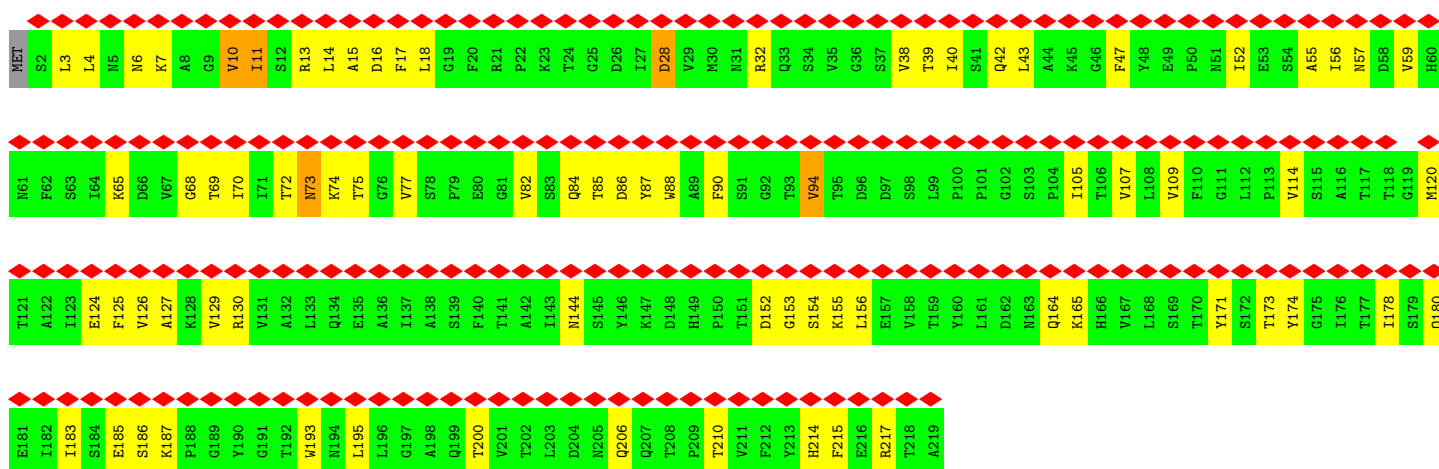


- Molecule 3: gp11, baseplate wedge protein

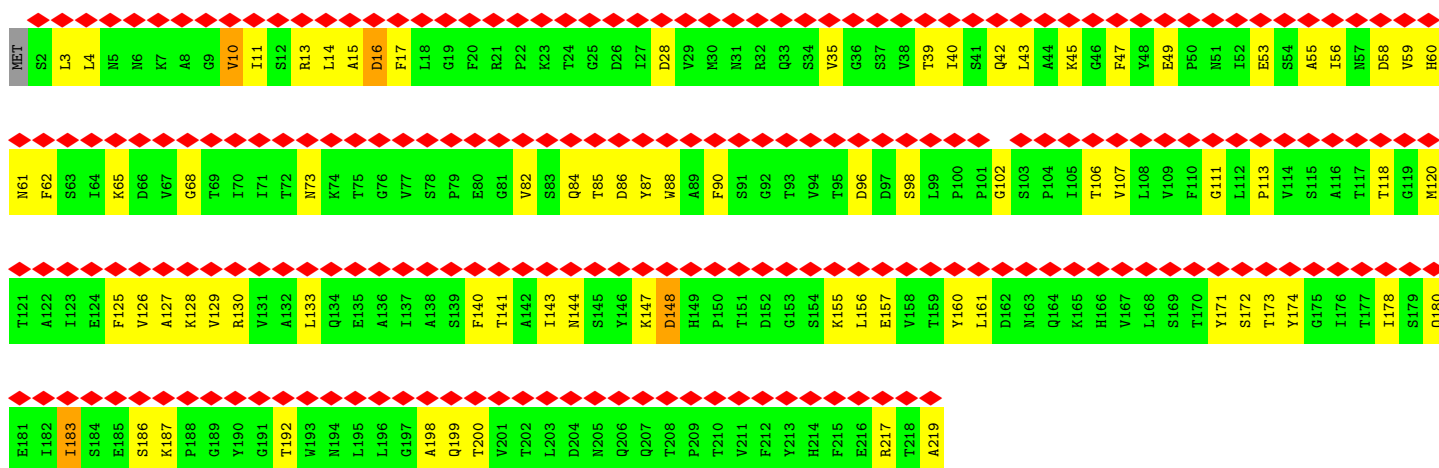




• Molecule 3: gp11, baseplate wedge protein

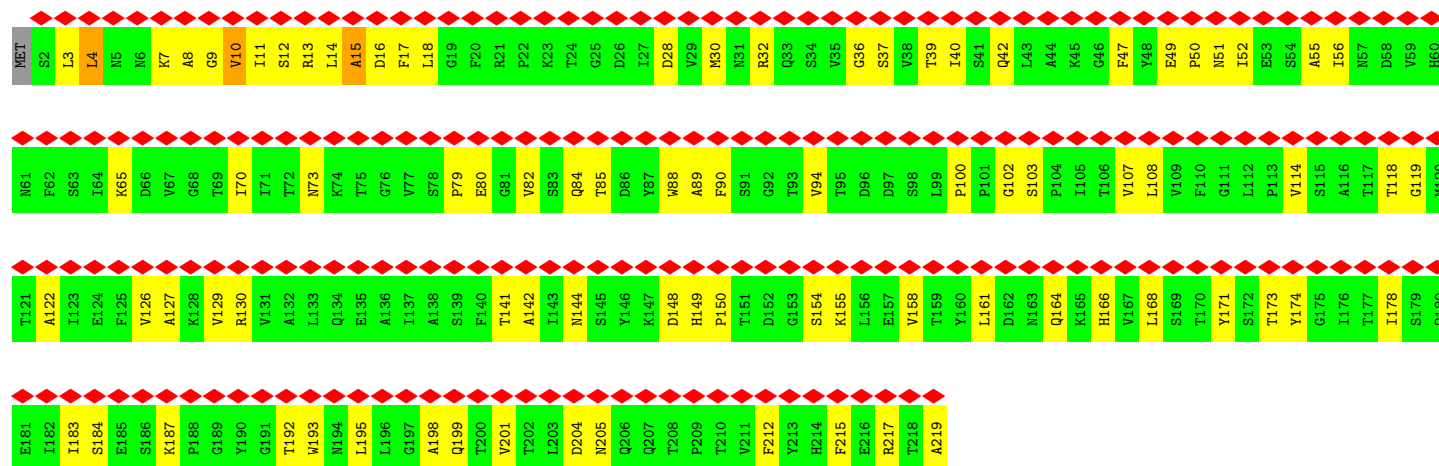


• Molecule 3: gp11, baseplate wedge protein

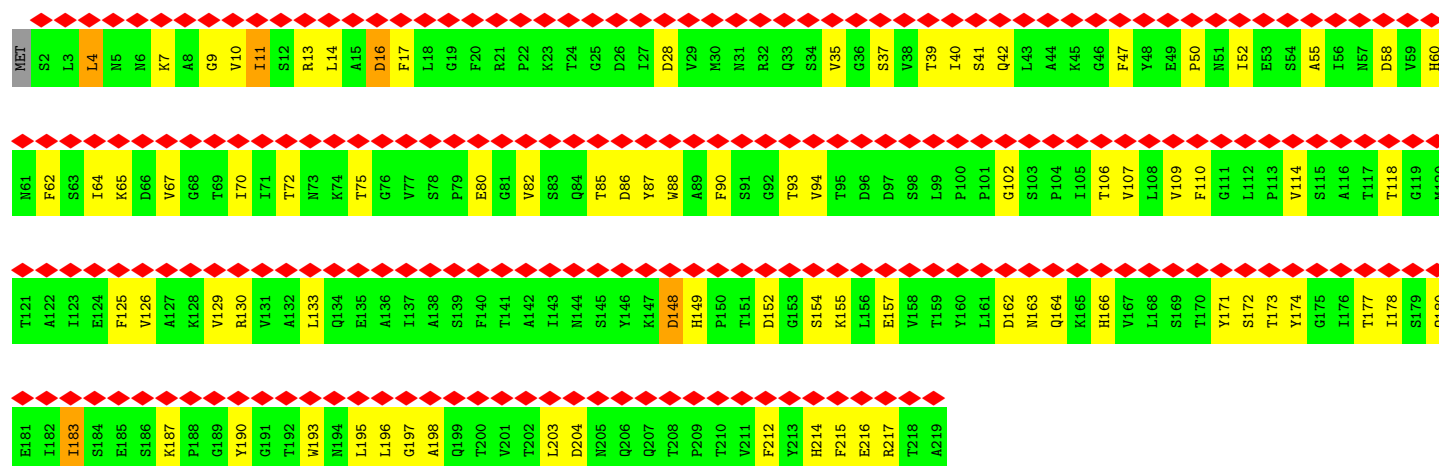


• Molecule 3: gp11, baseplate wedge protein

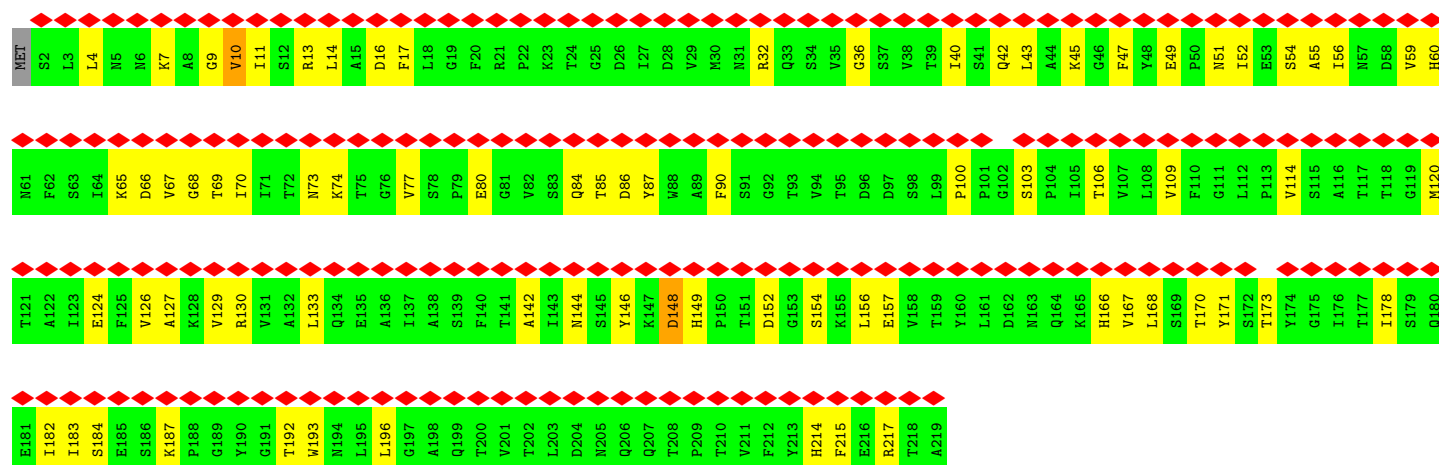


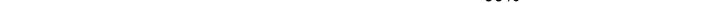


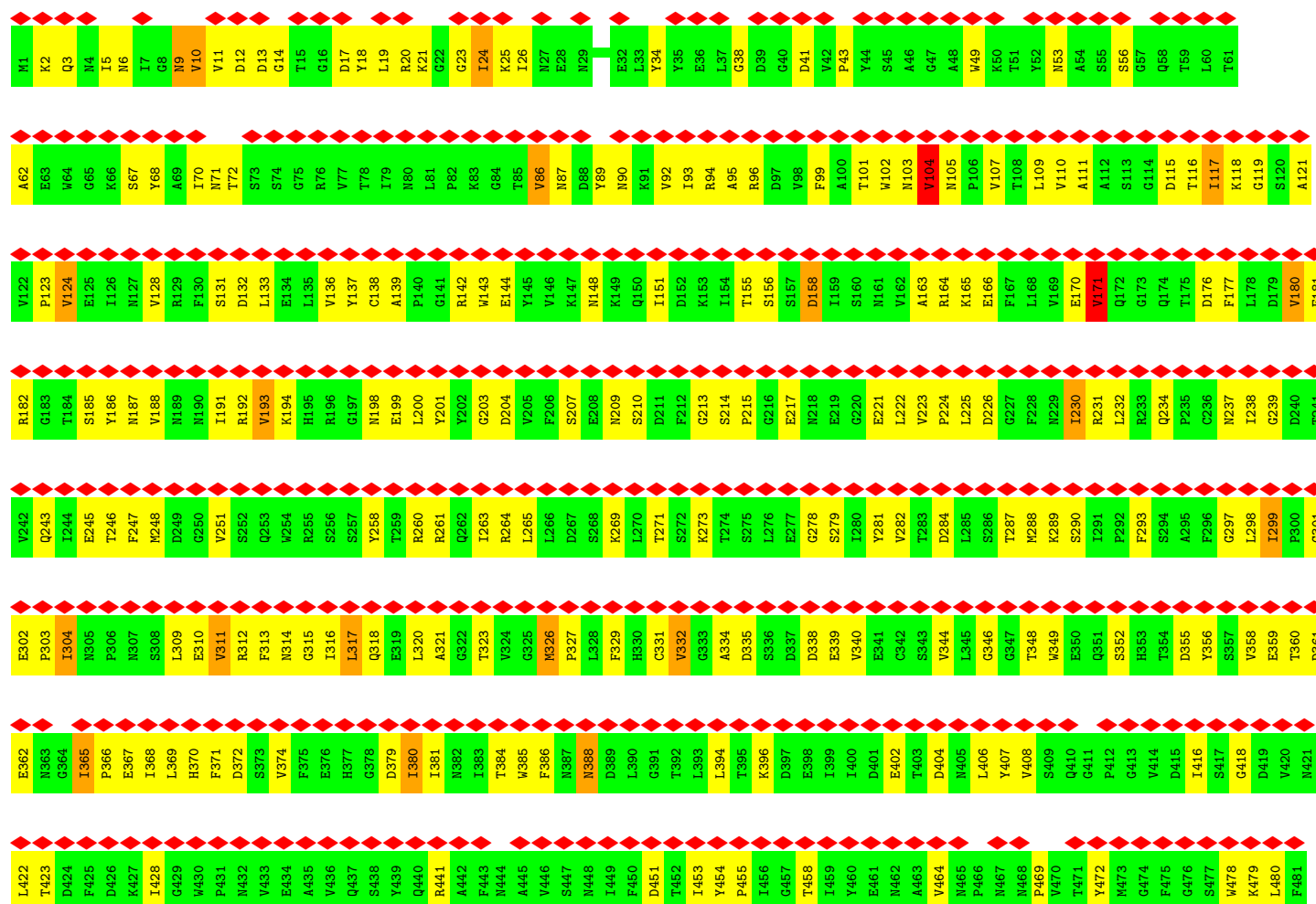
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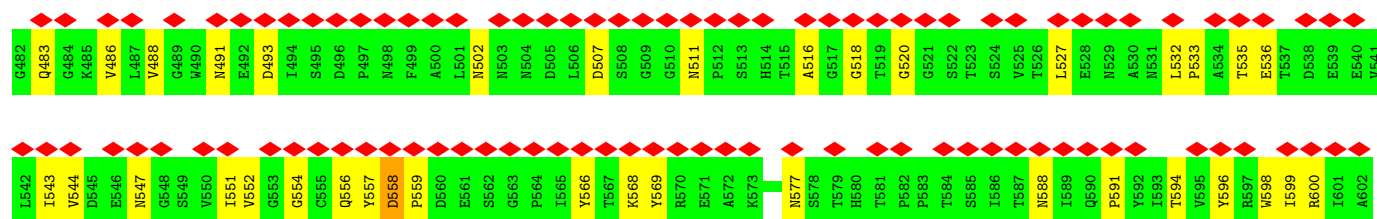


• Molecule 3: gp11, baseplate wedge protein

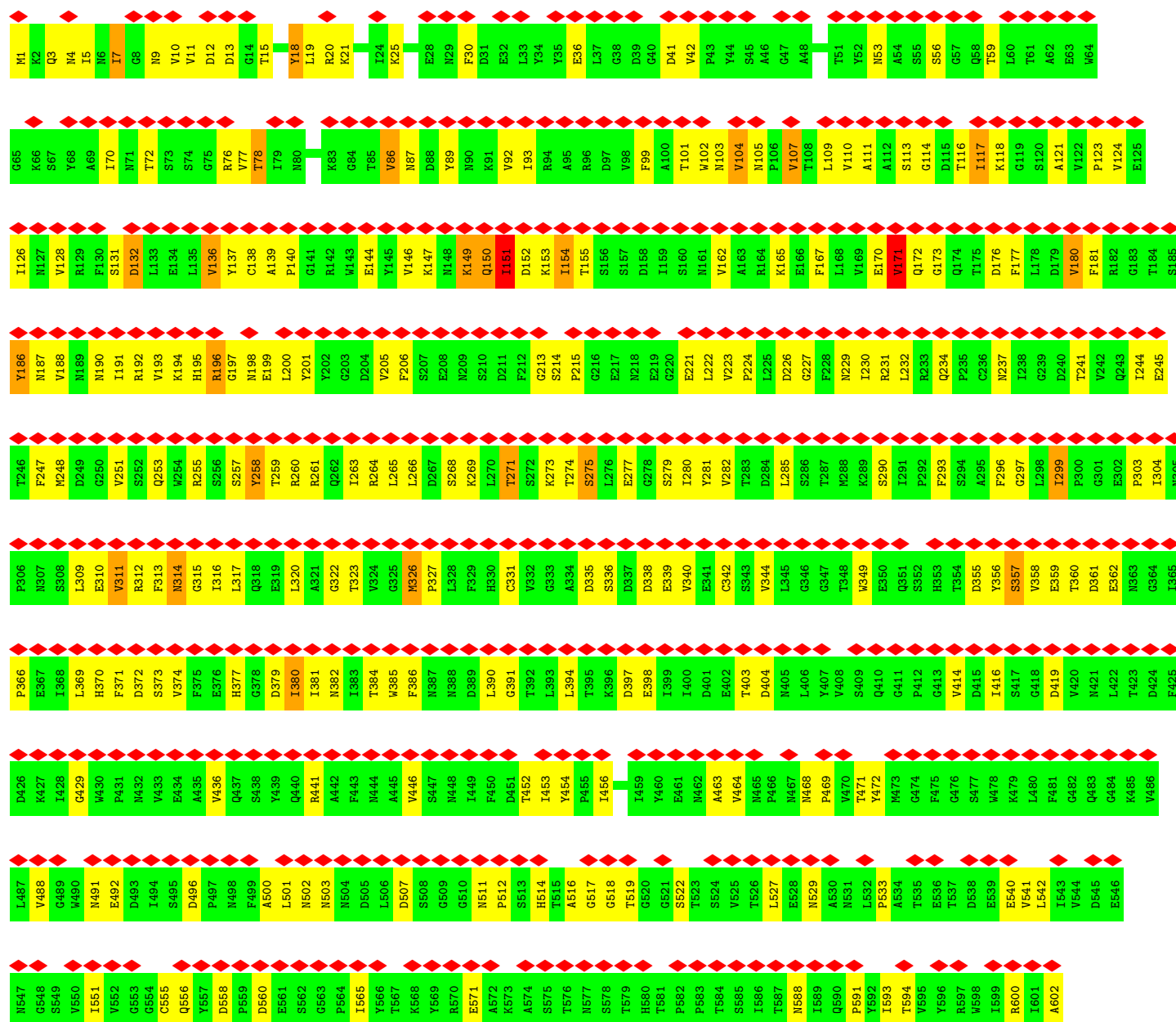
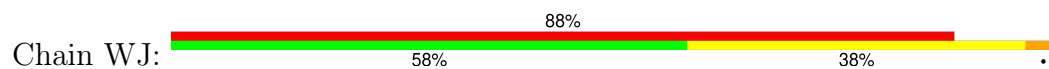


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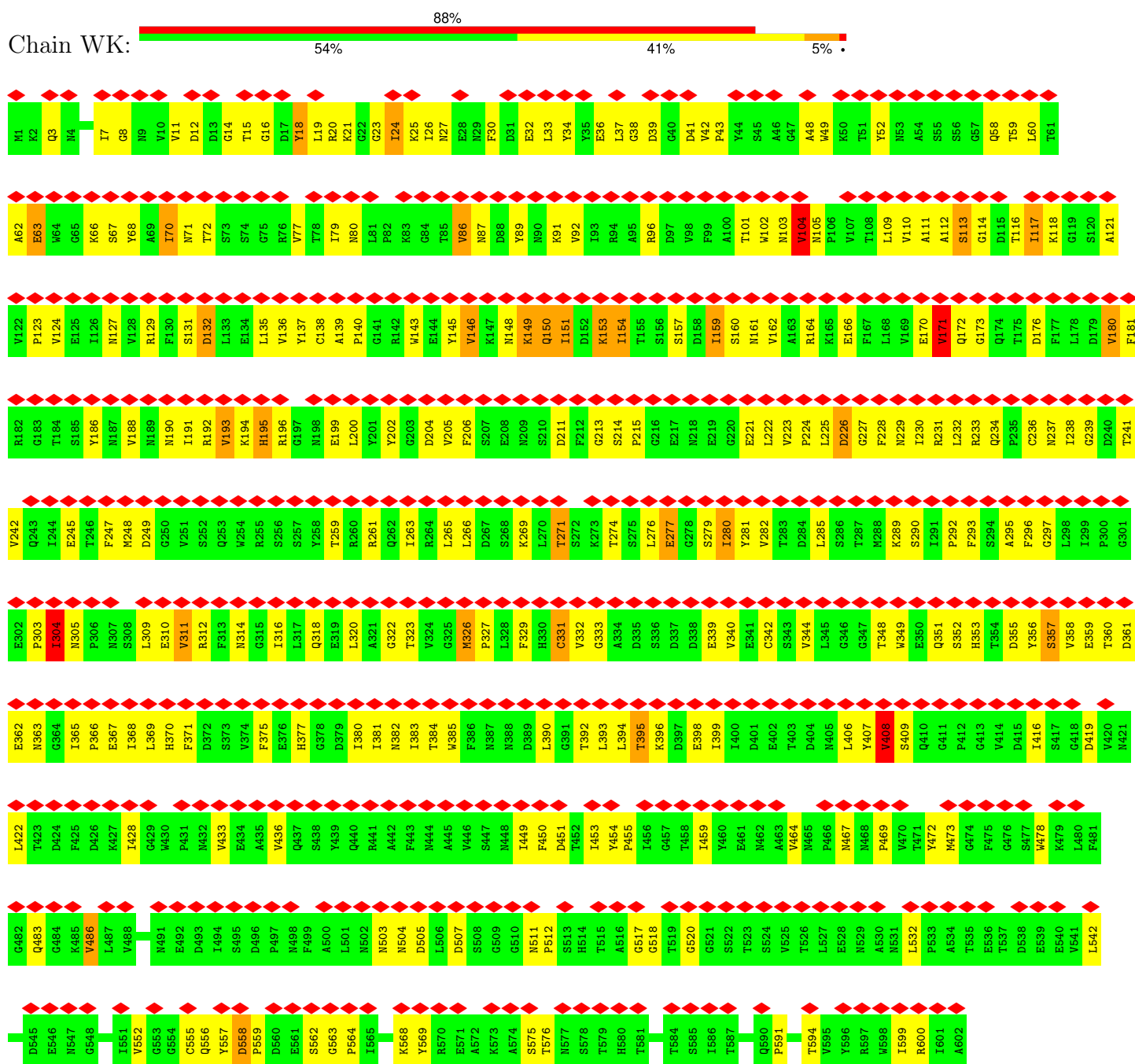




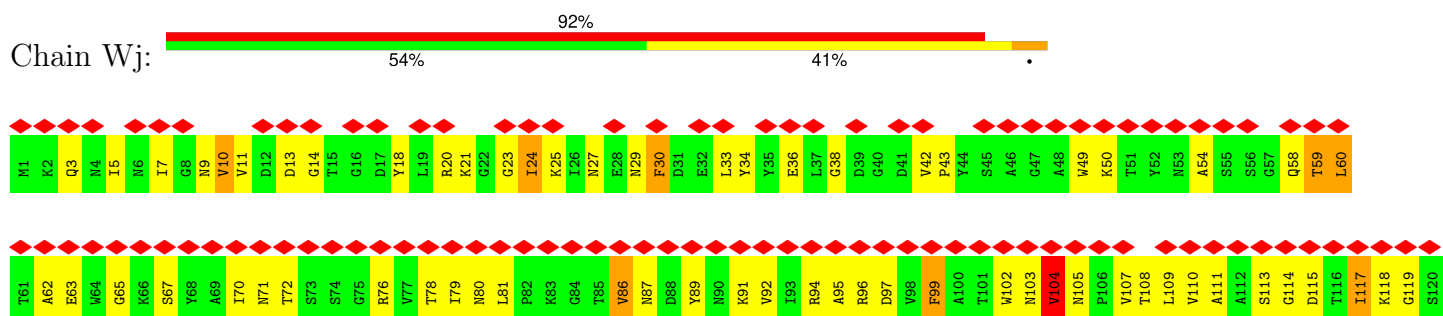
• Molecule 4: gp10, baseplate wedge protein

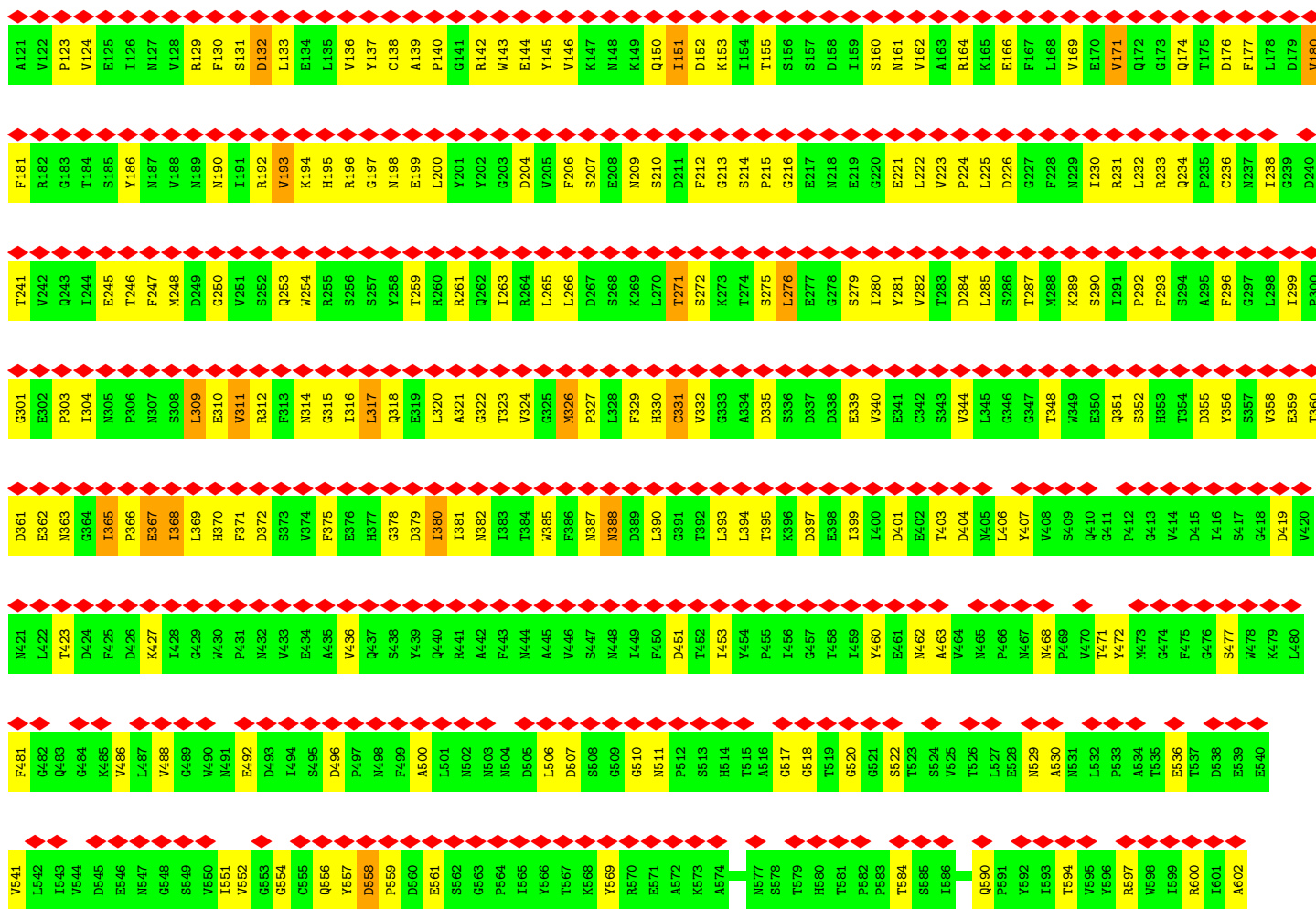


• Molecule 4: gp10, baseplate wedge protein

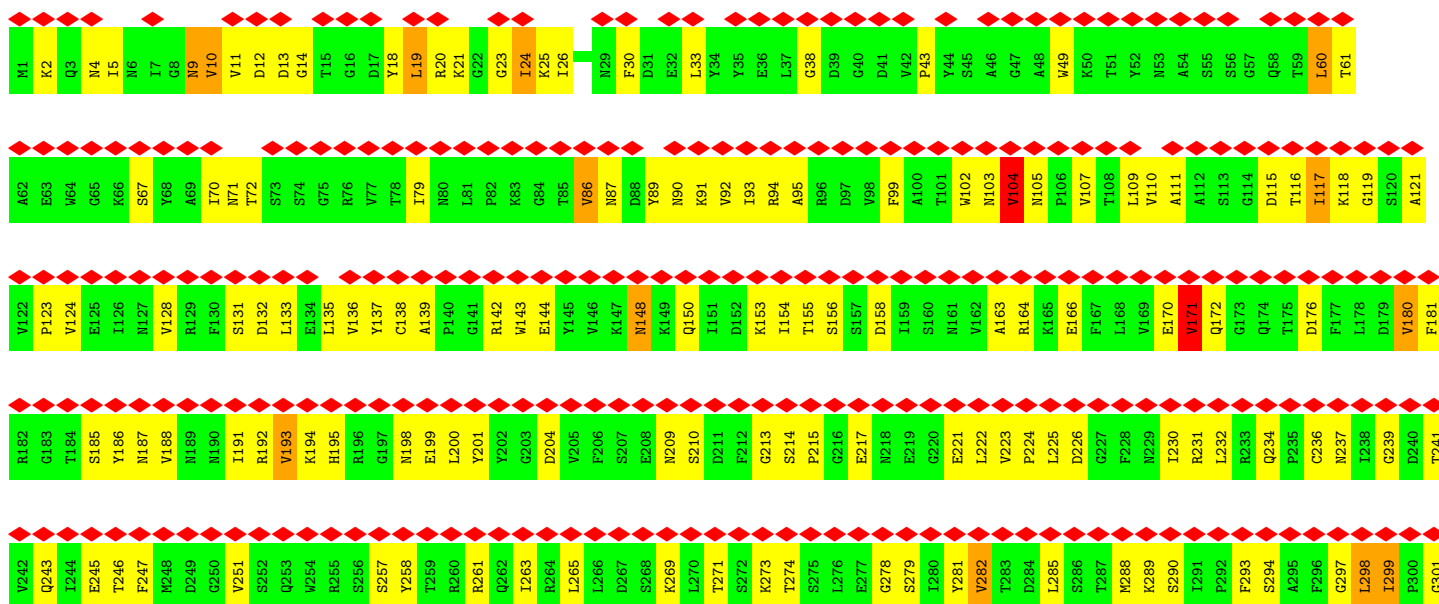


- Molecule 4: gp10, baseplate wedge protein

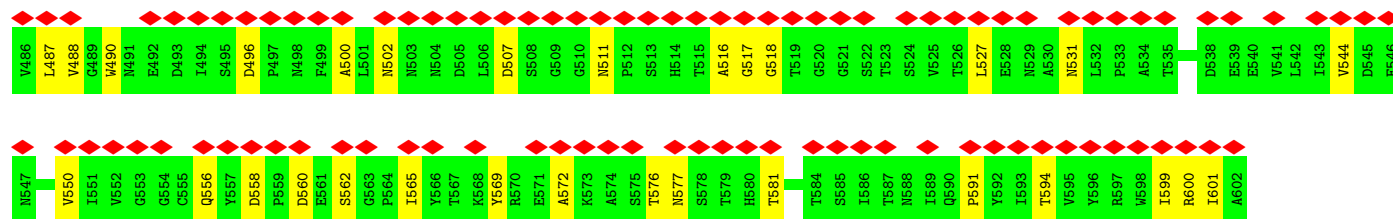




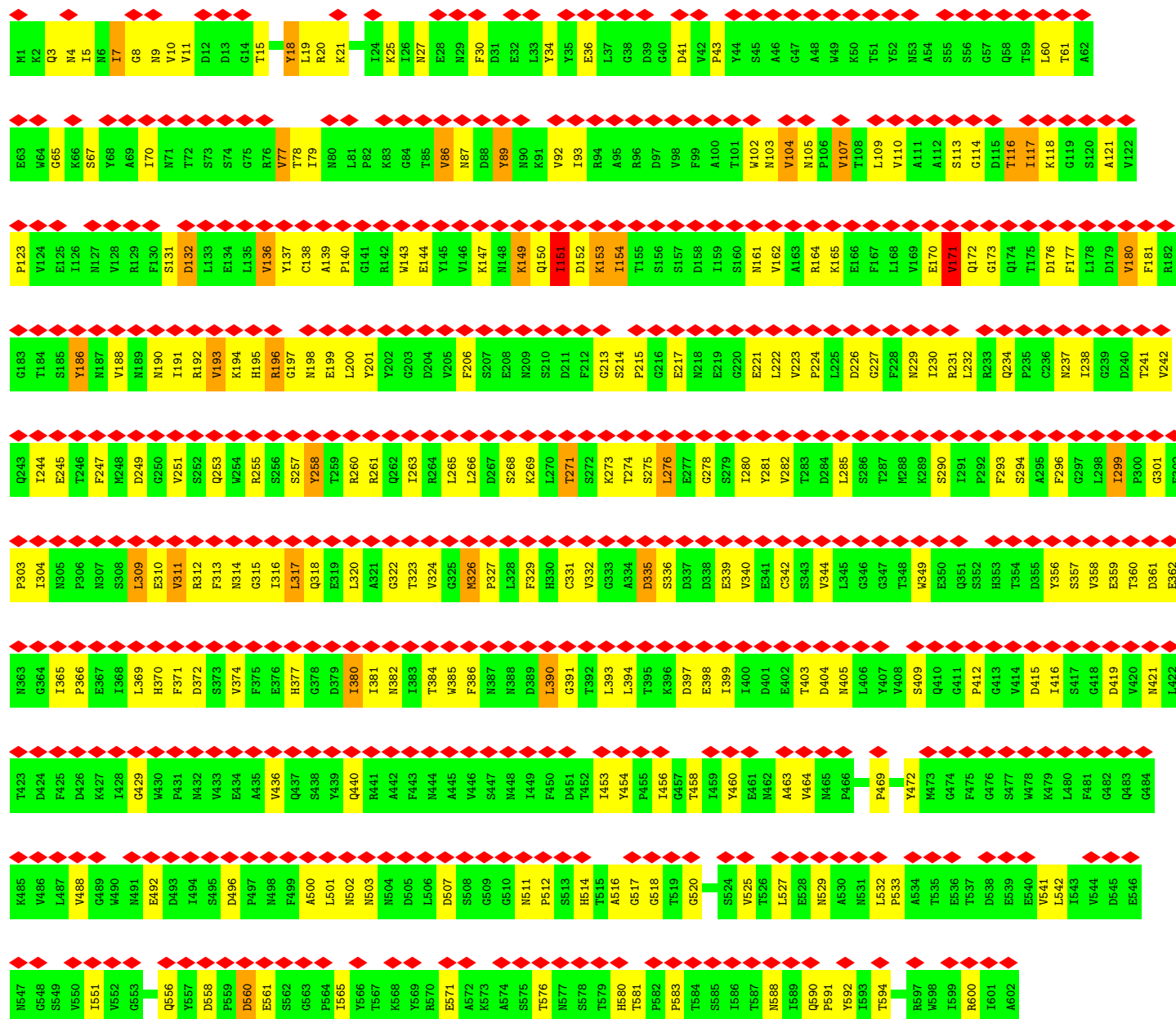
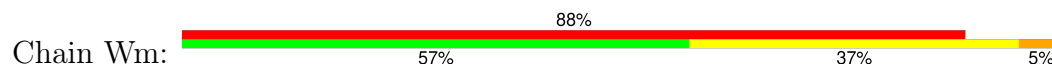
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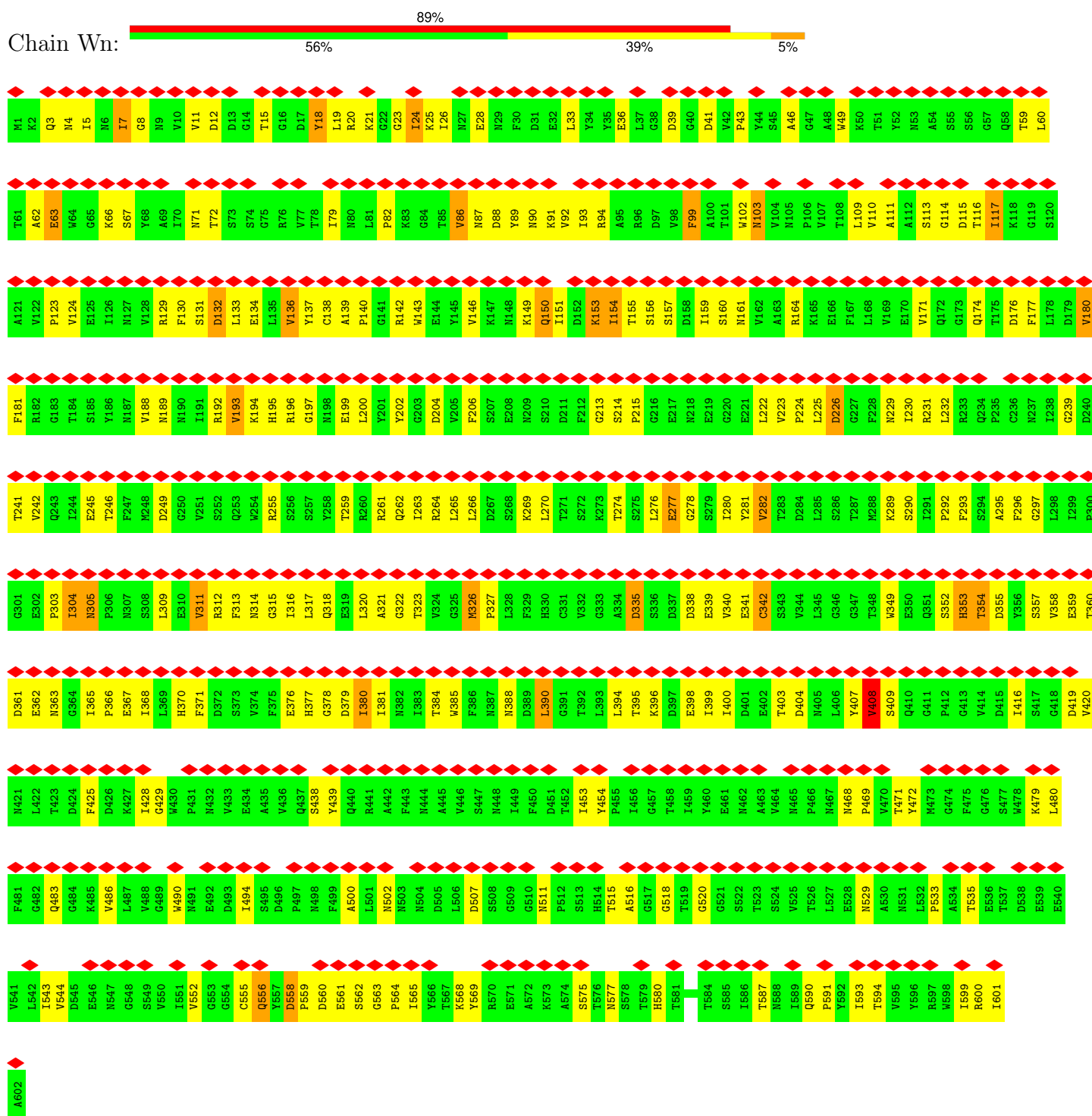




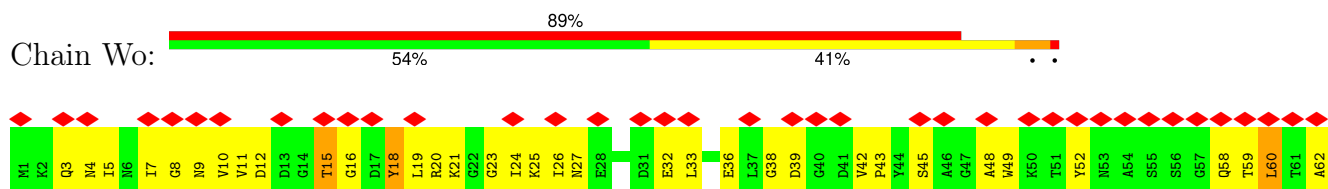
• Molecule 4: gp10, baseplate wedge protein

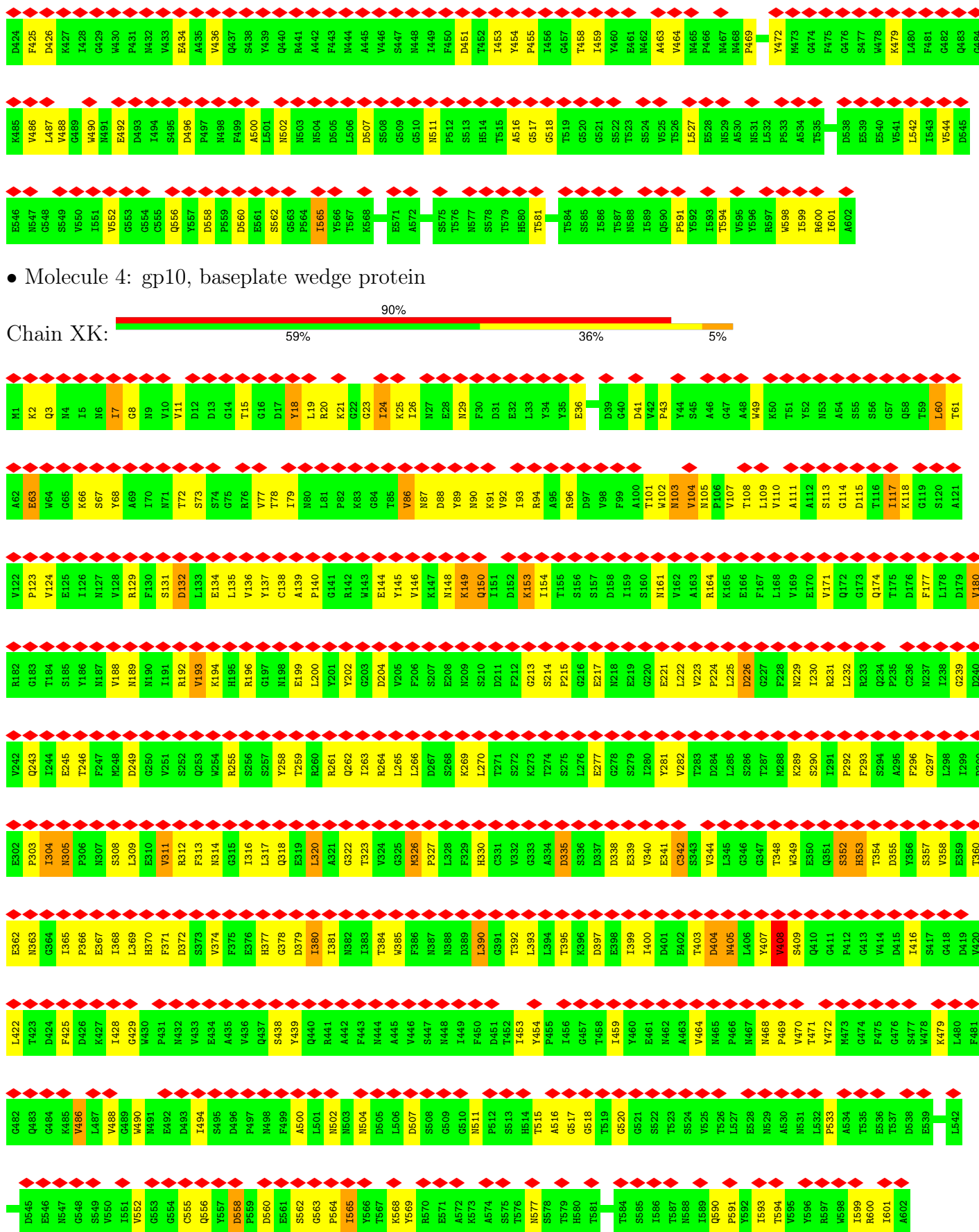


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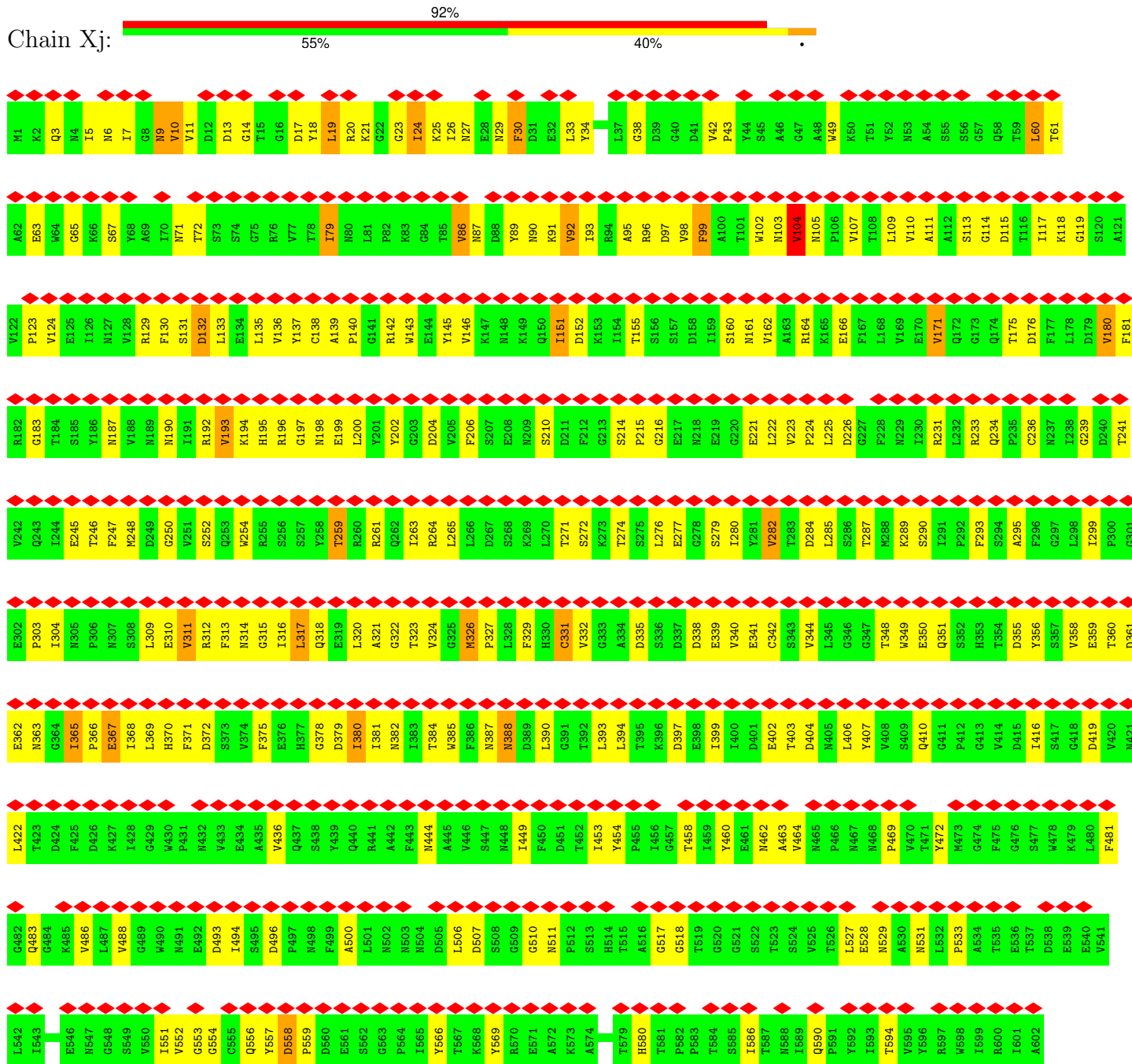


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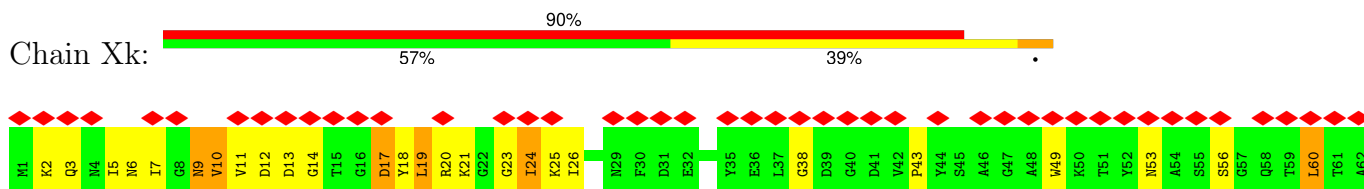


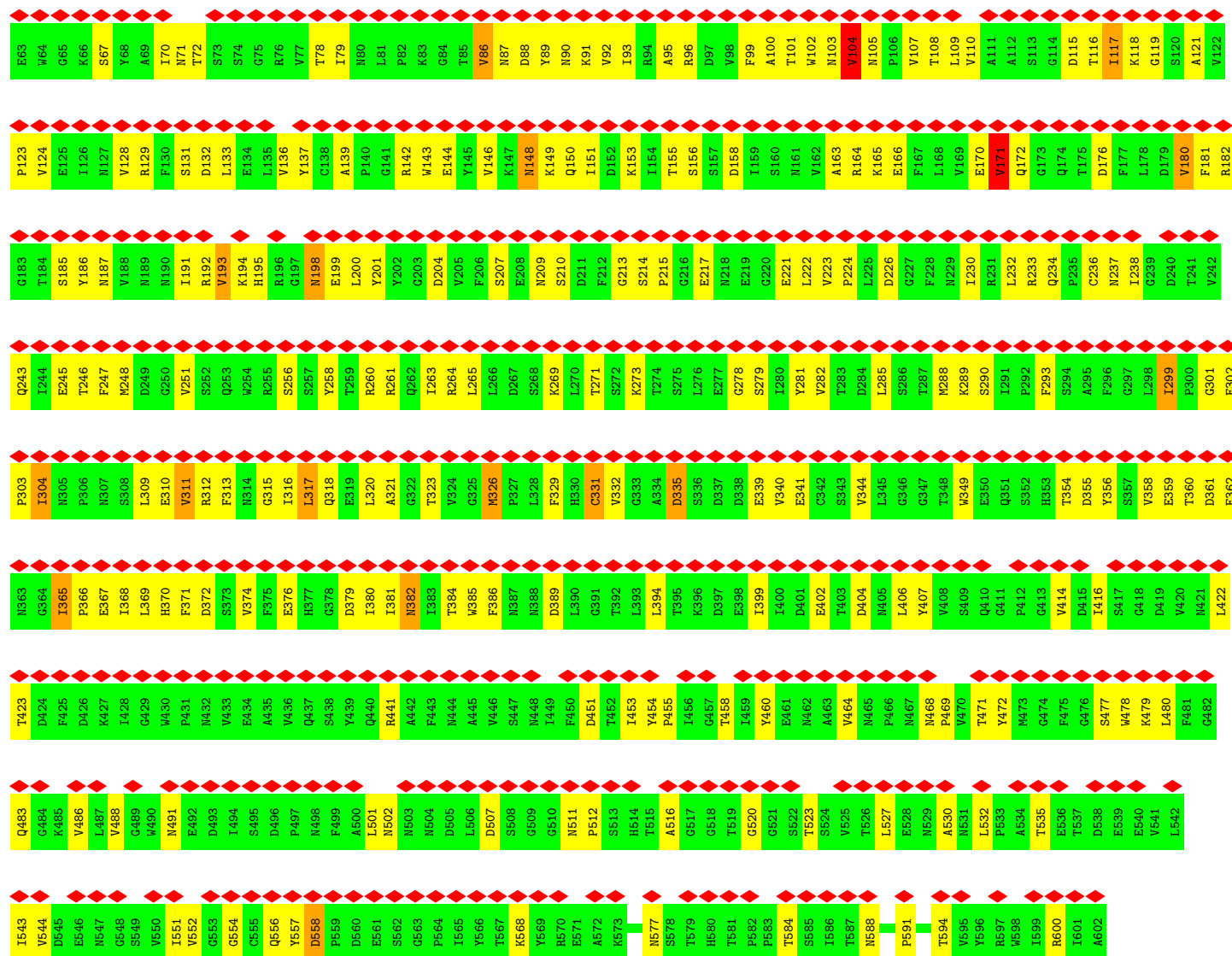


• Molecule 4: gp10, baseplate wedge protein

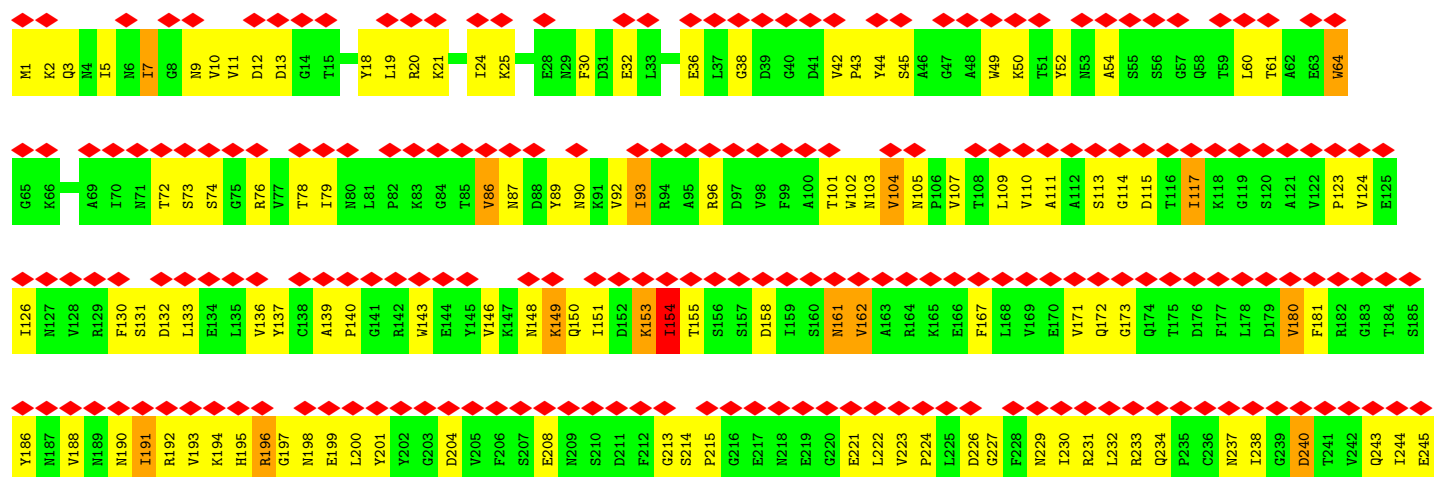
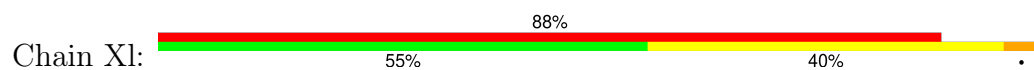


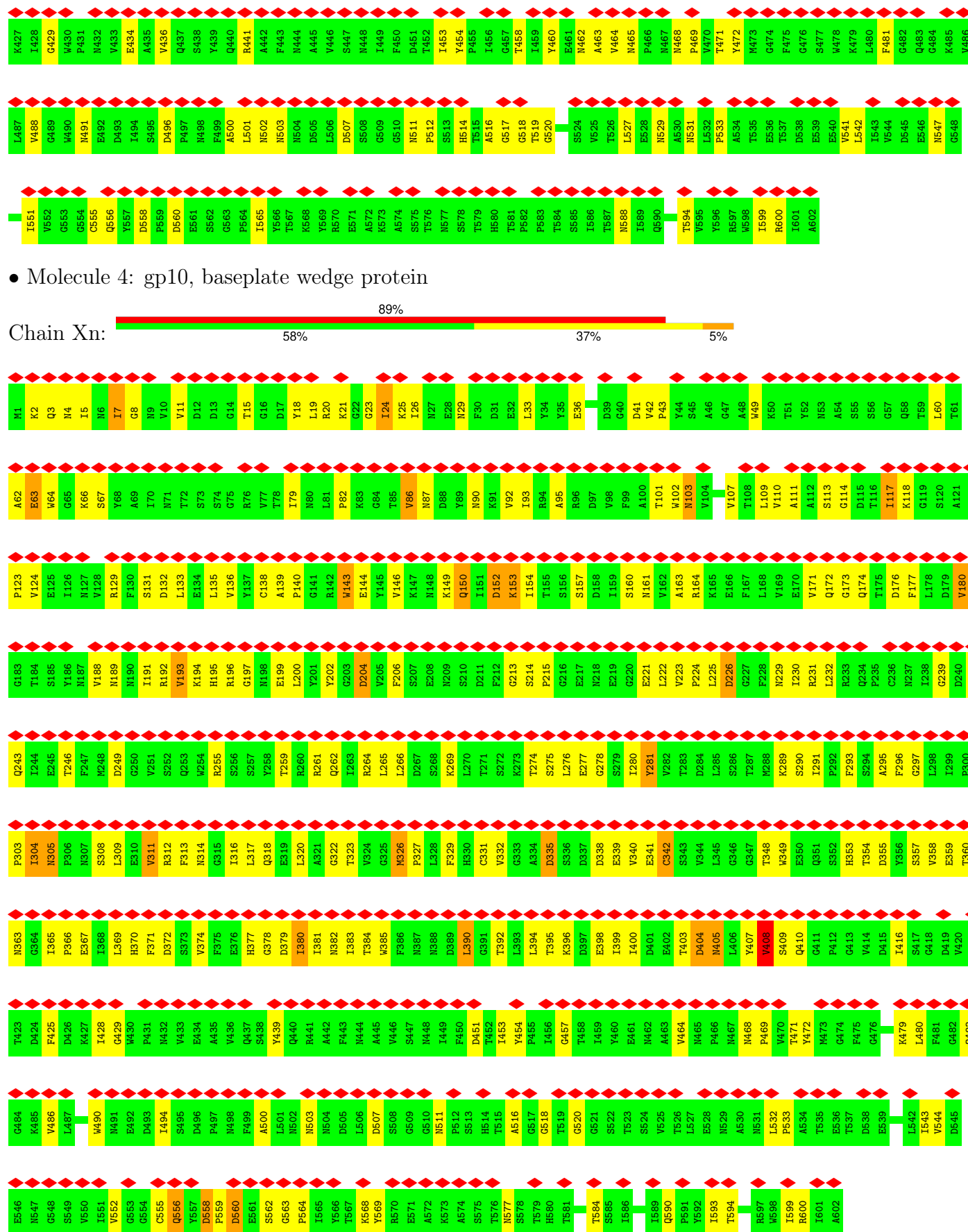
• Molecule 4: gp10, baseplate wedge protein



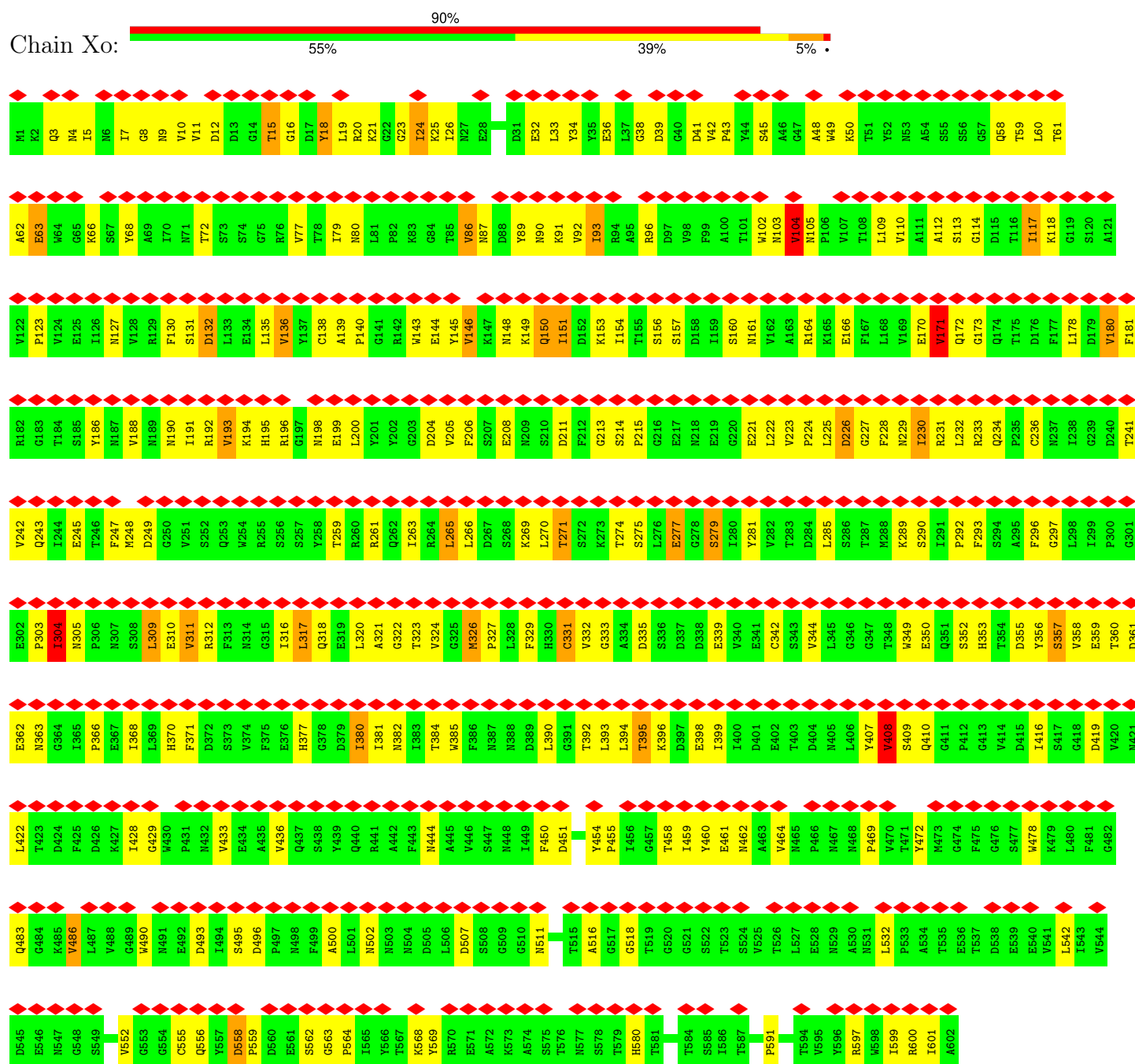


• Molecule 4: gp10, baseplate wedge protein

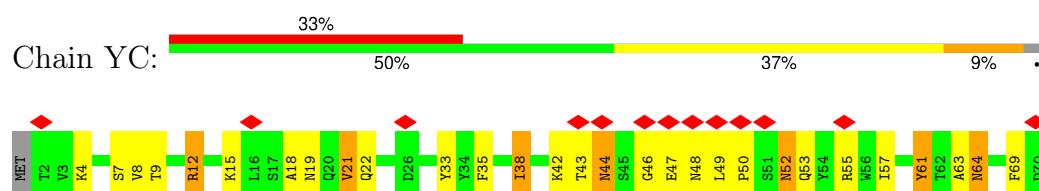




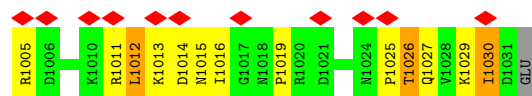
• Molecule 4: gp10, baseplate wedge protein



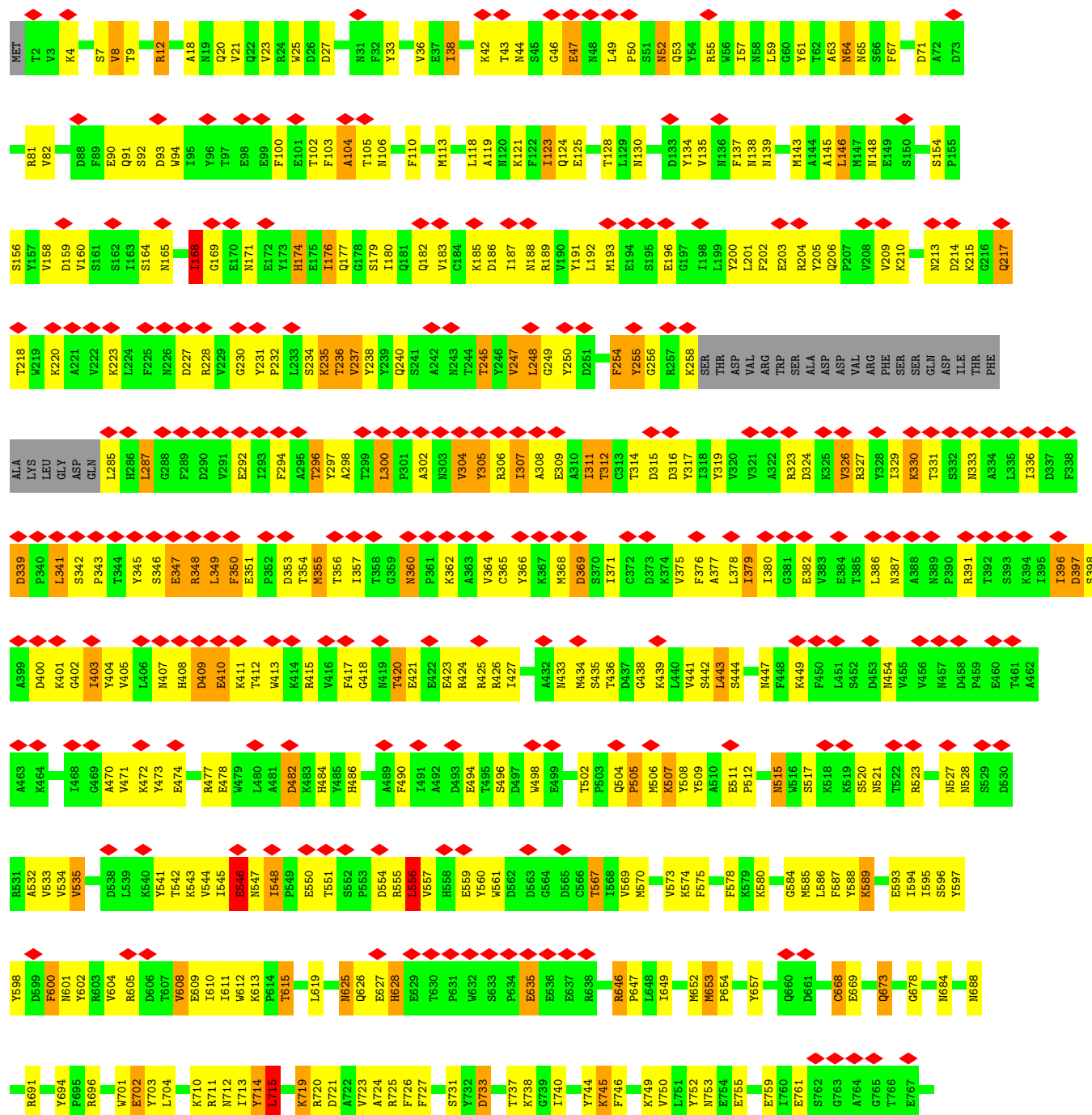
• Molecule 5: gp7, baseplate wedge protein

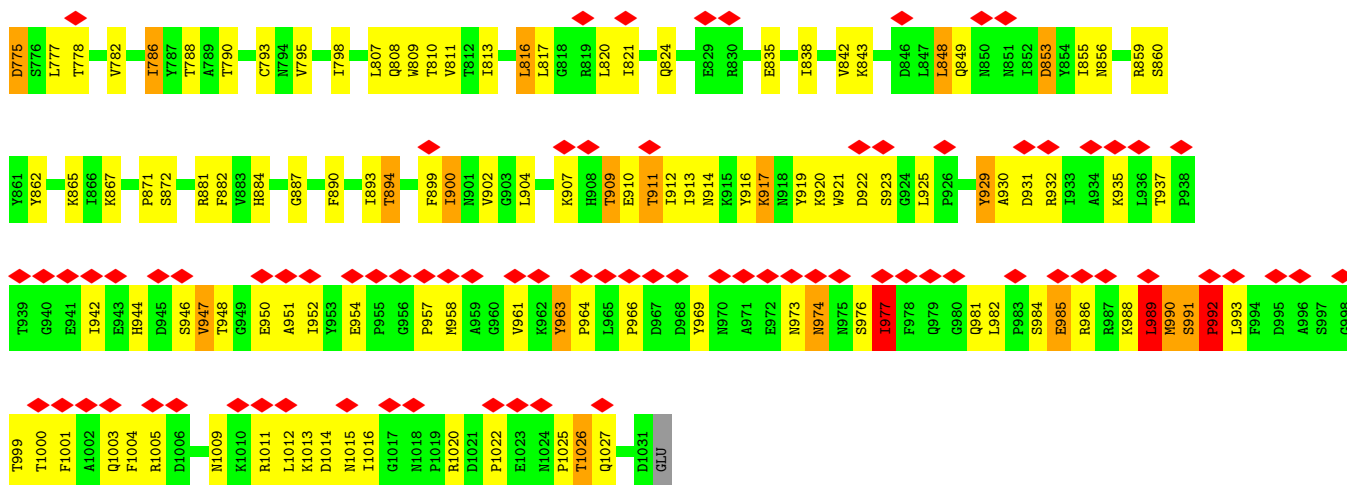




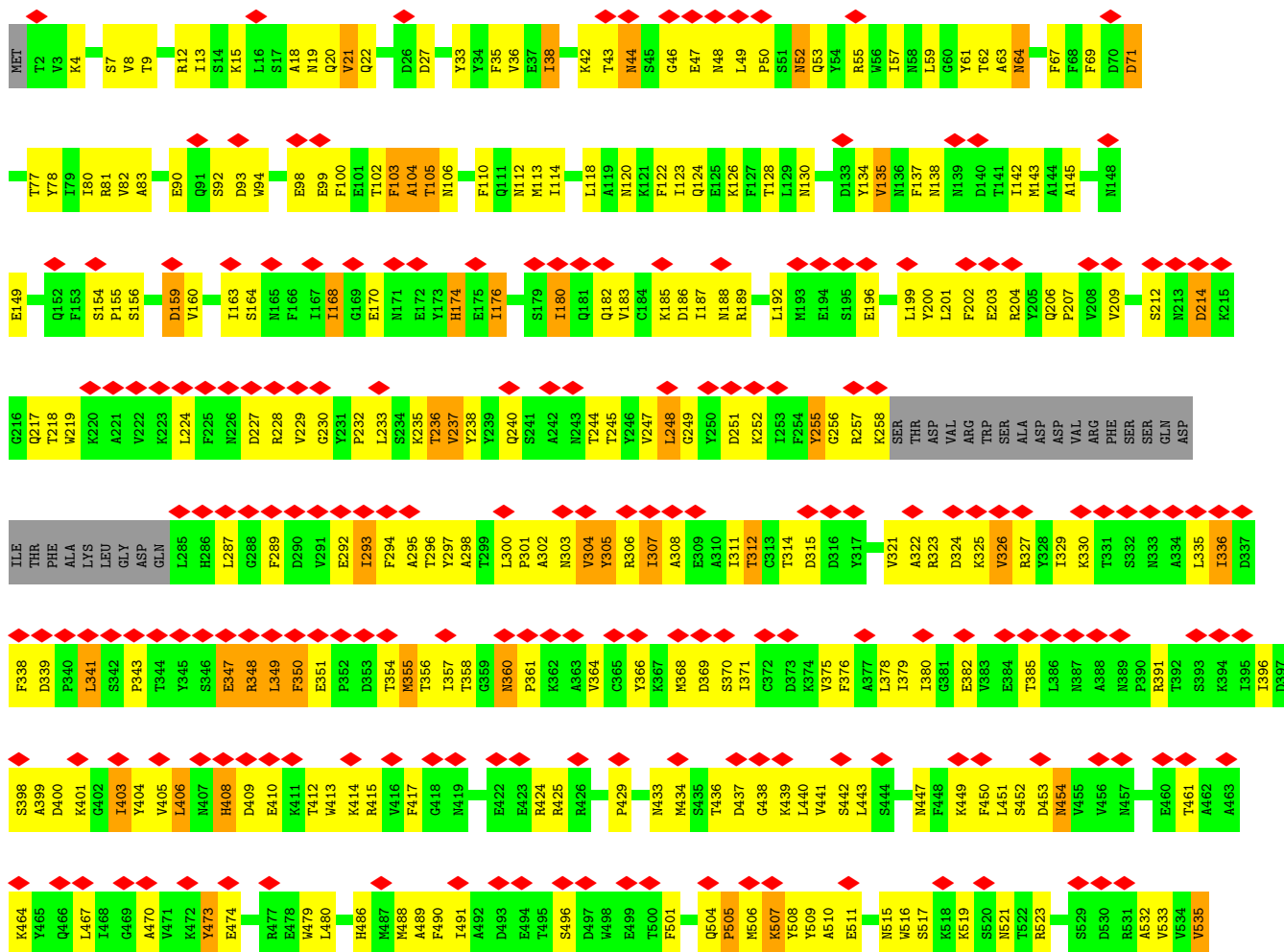


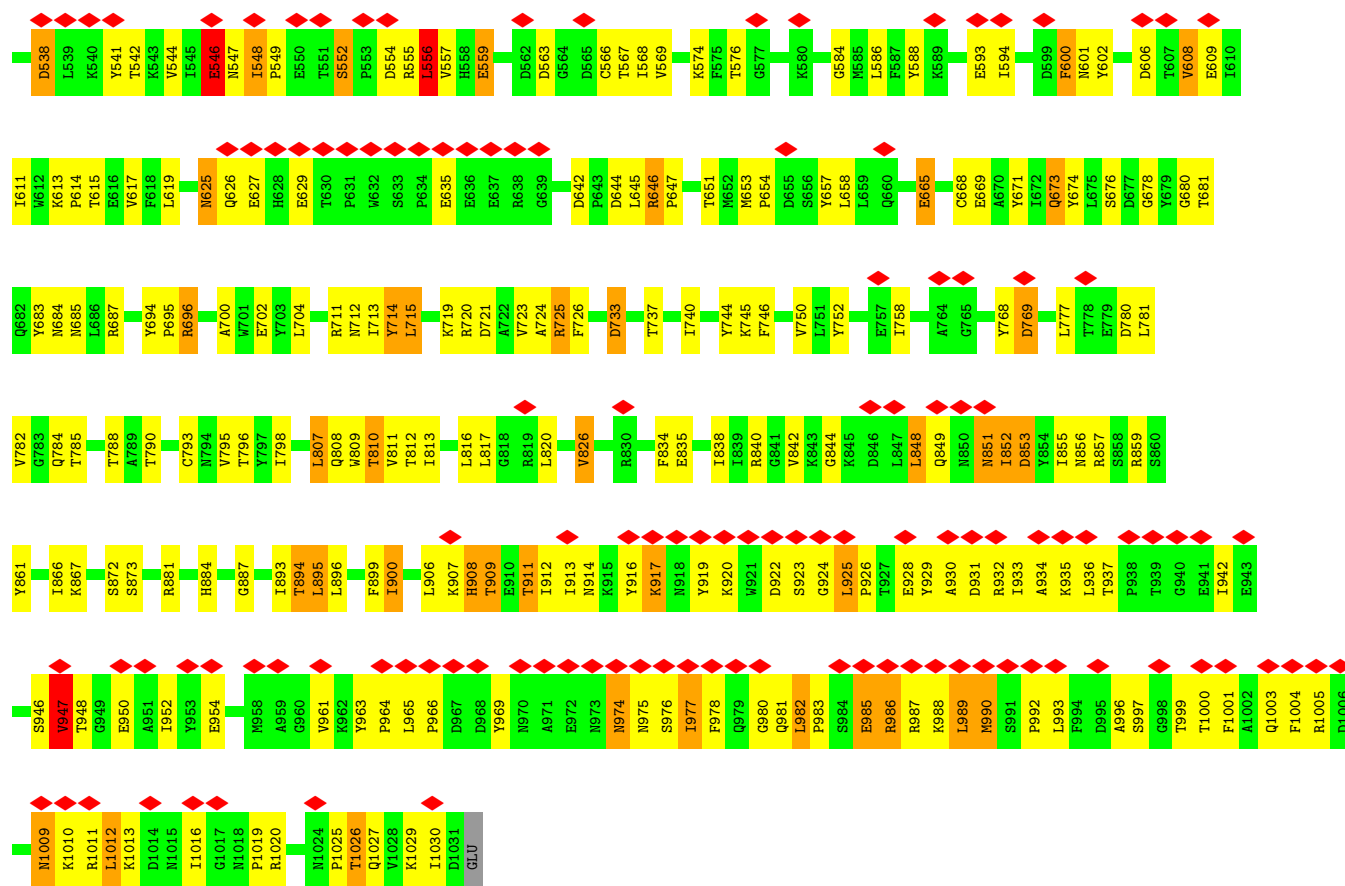
• Molecule 5: gp7, baseplate wedge protein



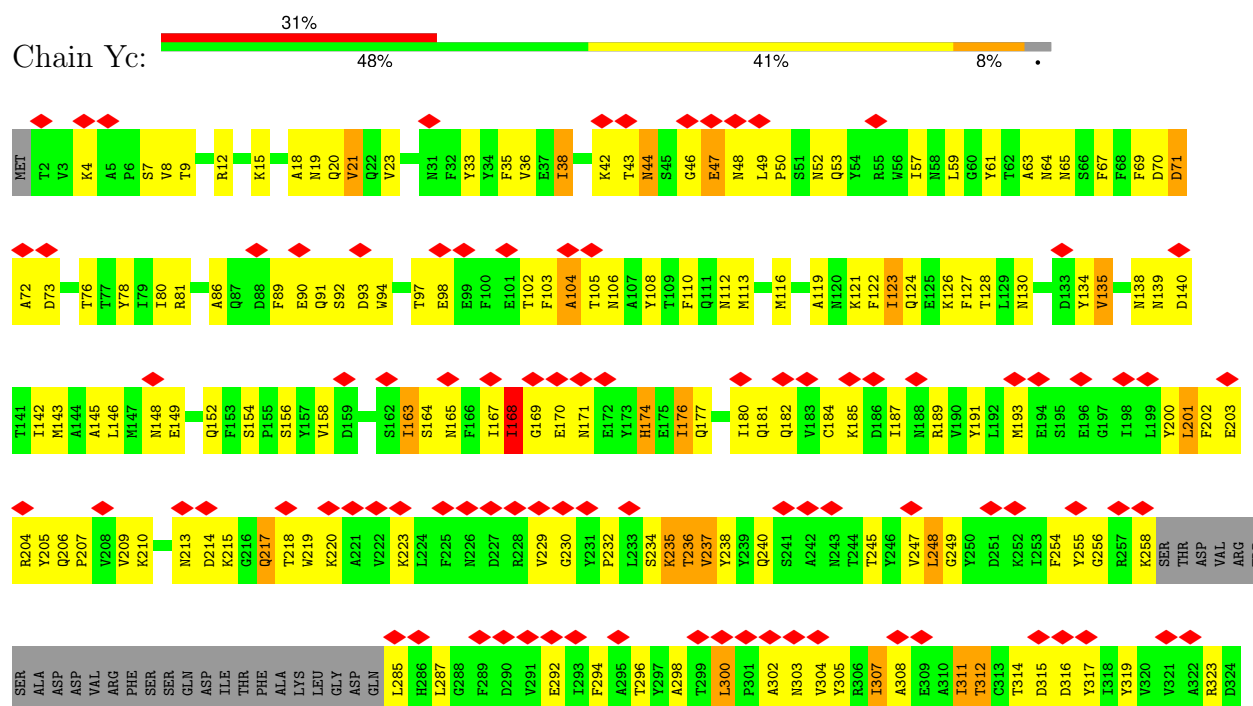


• Molecule 5: gp7, baseplate wedge protein

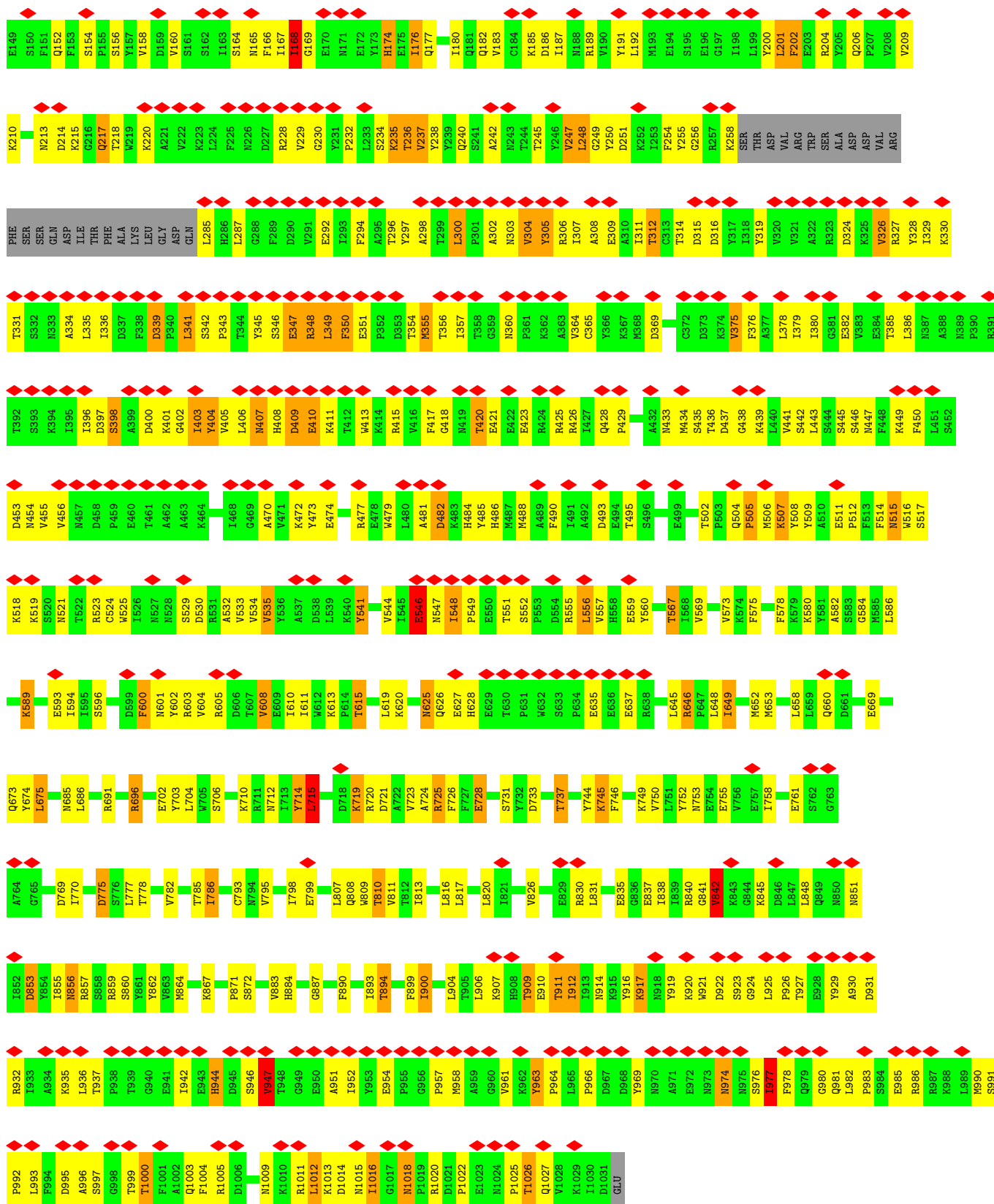




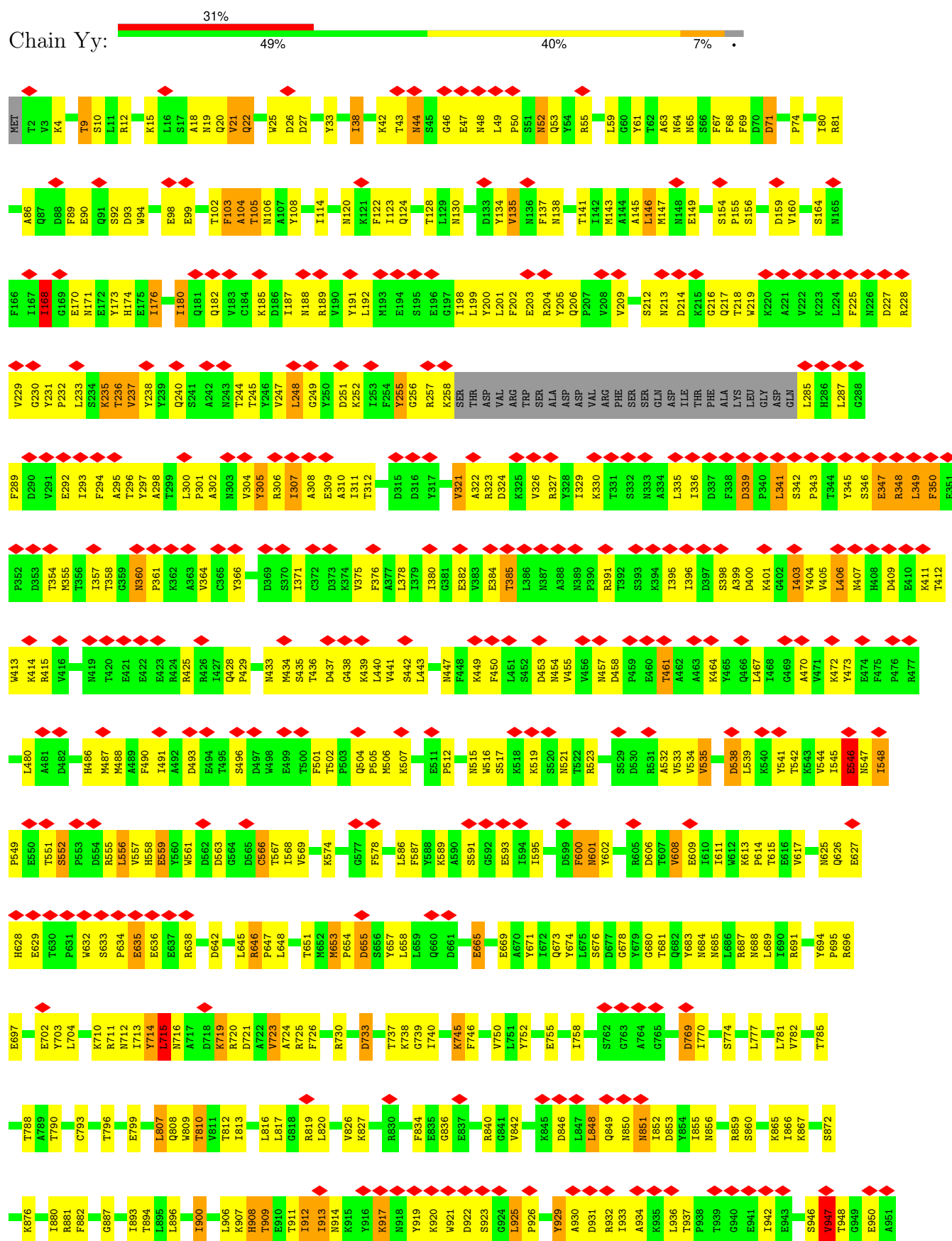
• Molecule 5: gp7, baseplate wedge protein

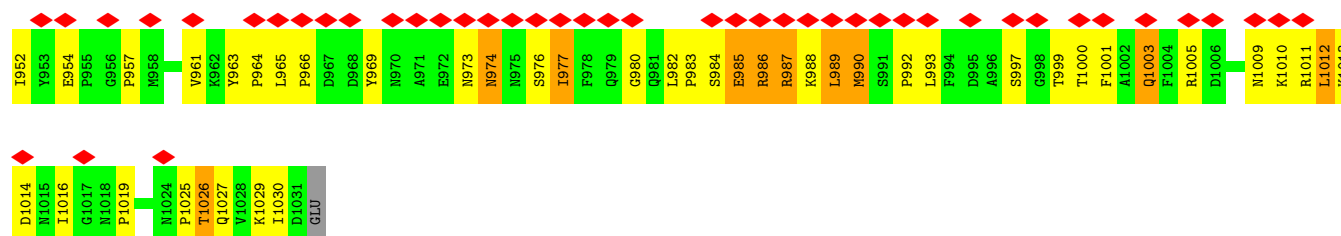




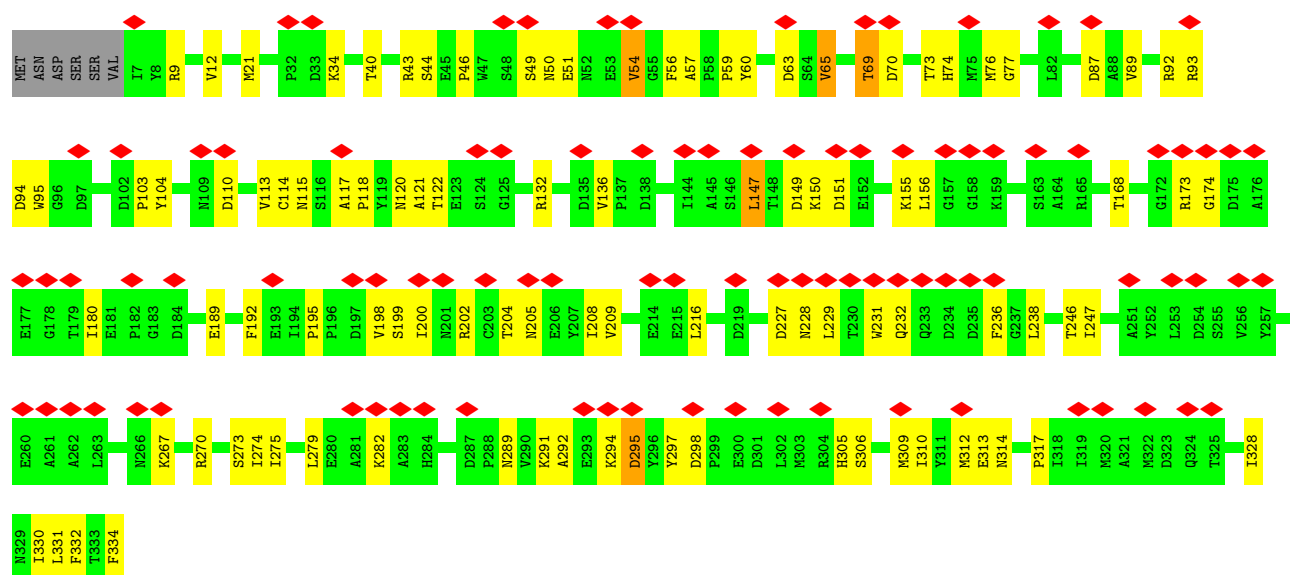


- Molecule 5: gp7, baseplate wedge protein

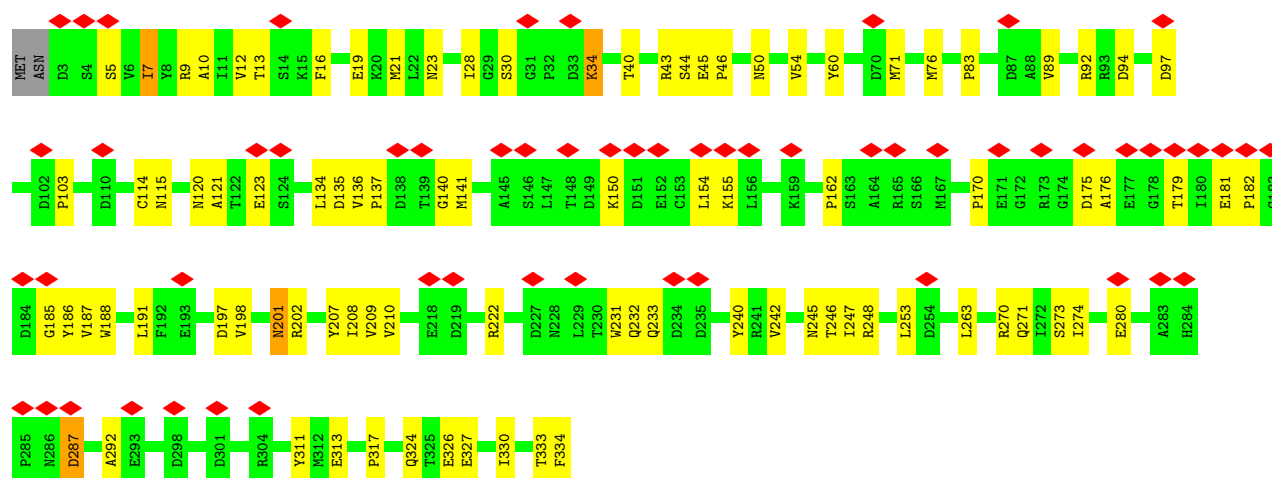
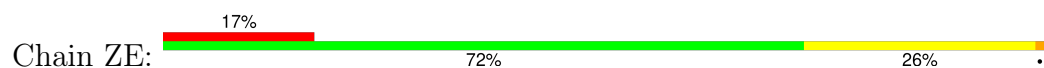




• Molecule 6: gp8, baseplate wedge protein

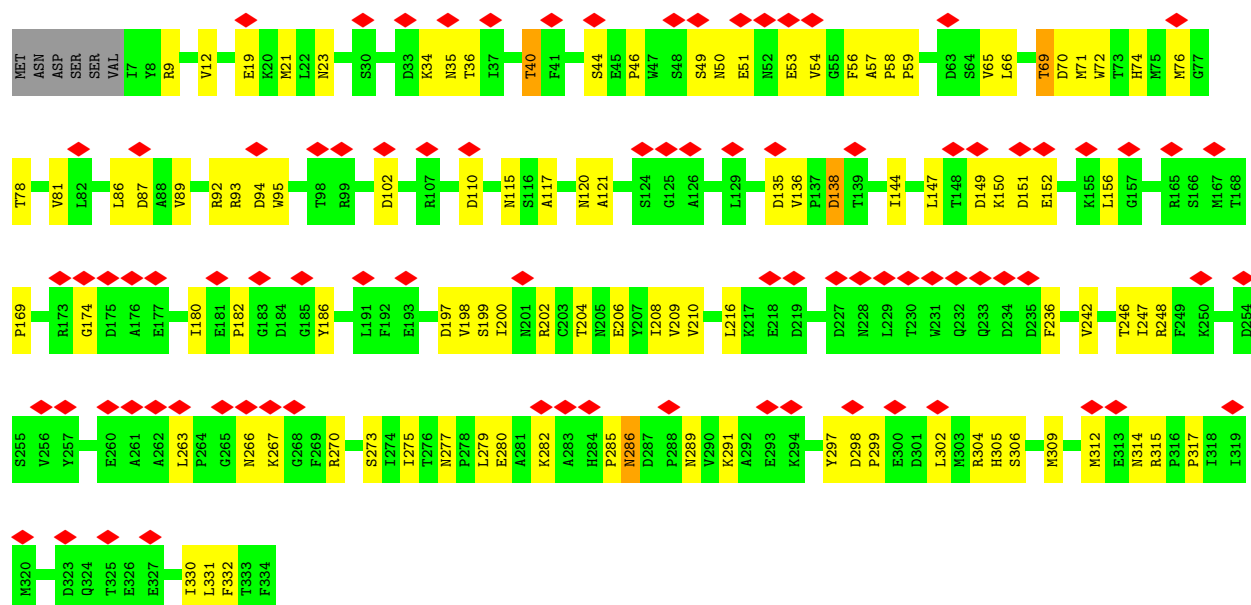


• Molecule 6: gp8, baseplate wedge protein

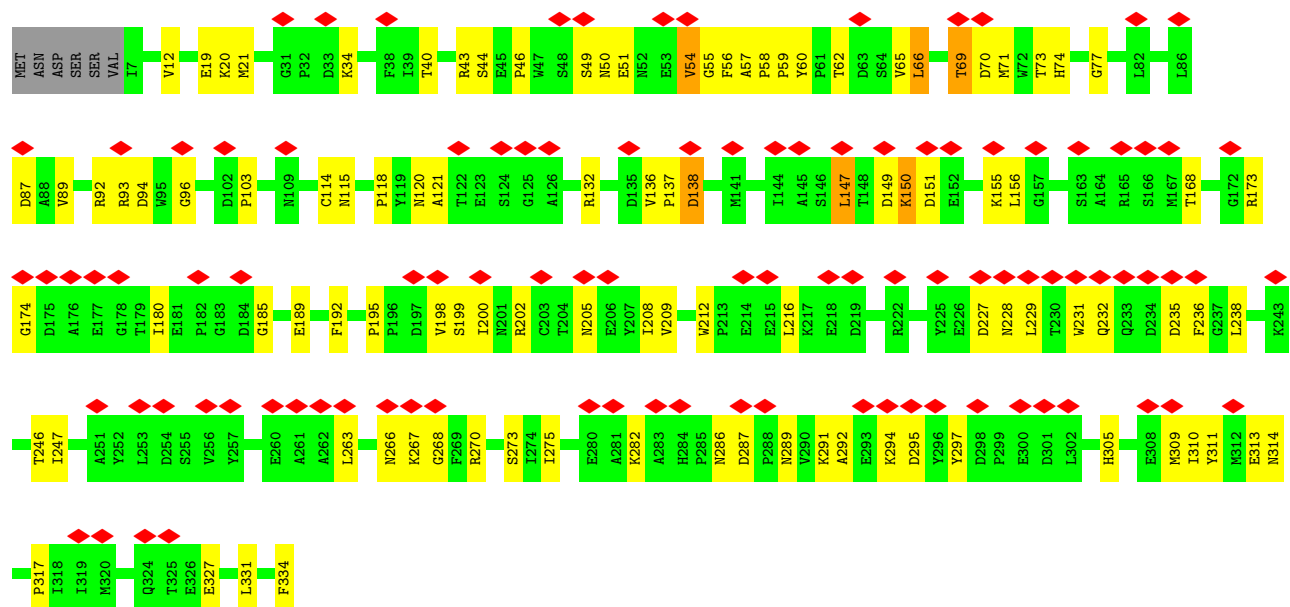


• Molecule 6: gp8, baseplate wedge protein

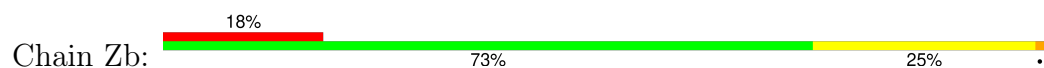




• Molecule 6: gp8, baseplate wedge protein



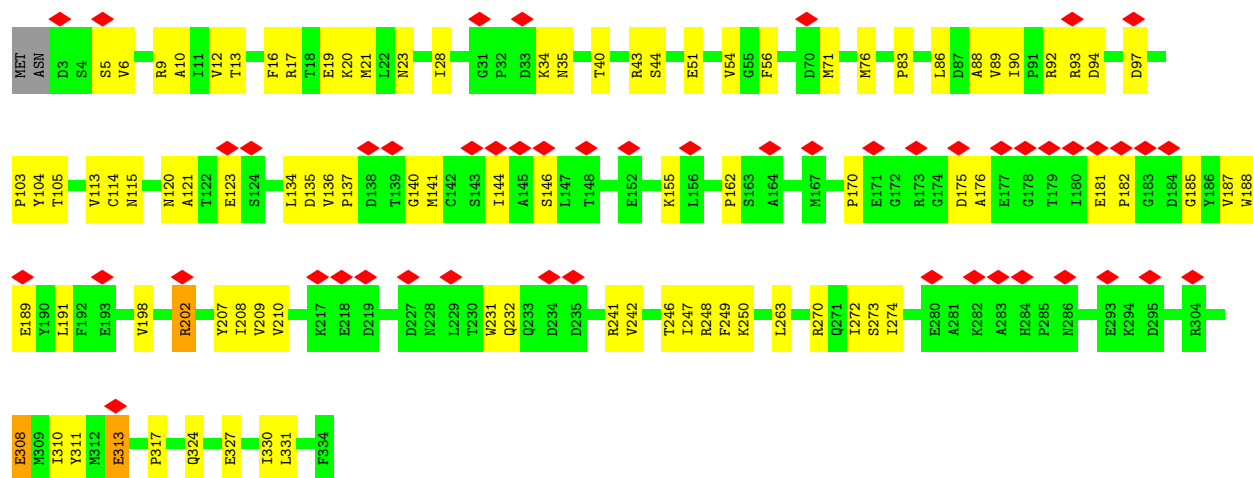
• Molecule 6: gp8, baseplate wedge protein





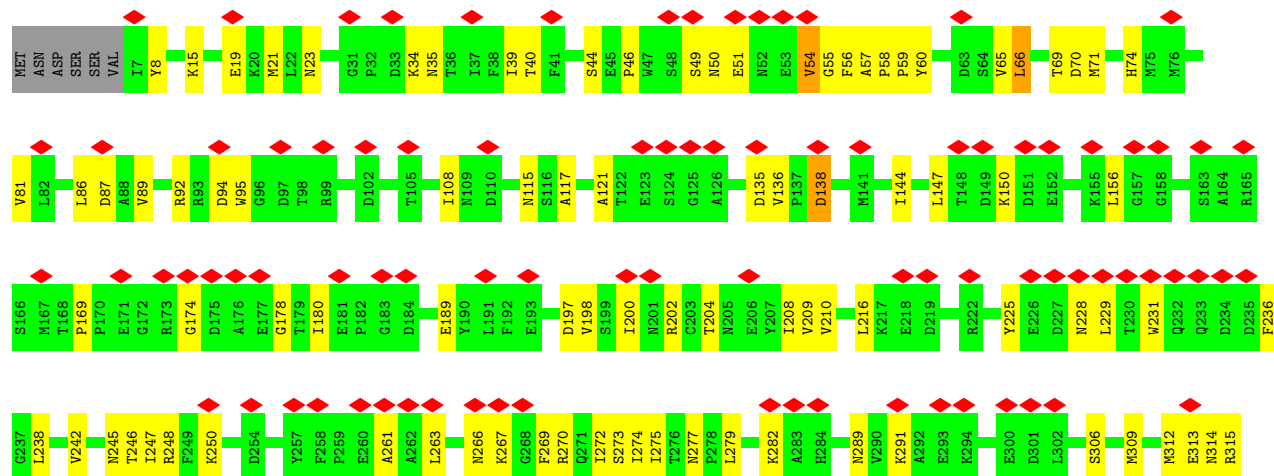
• Molecule 6: gp8, baseplate wedge protein

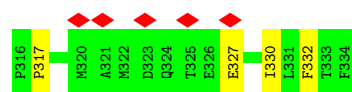
Chain Zc: 15% 72% 26% ..



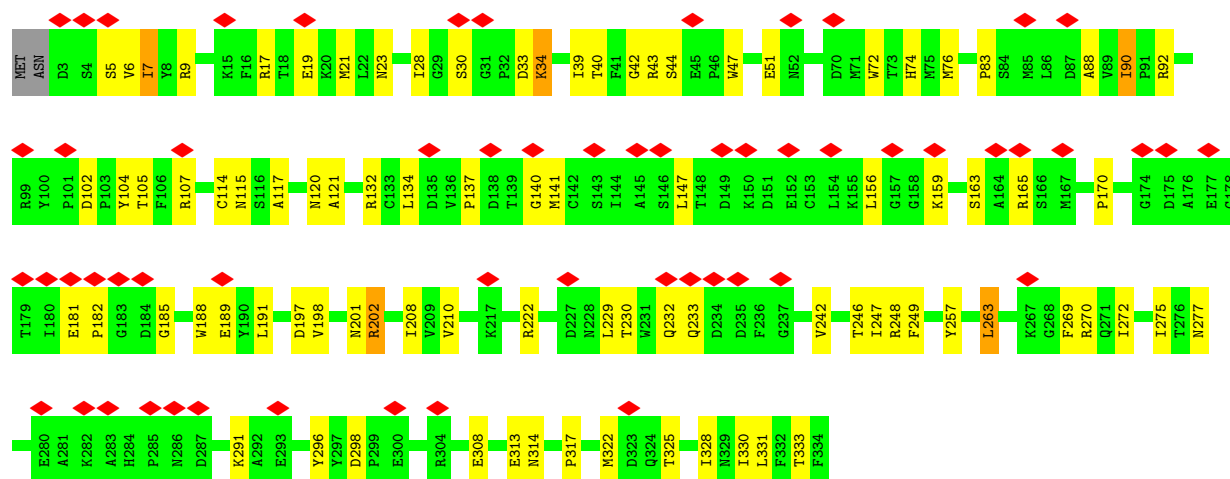
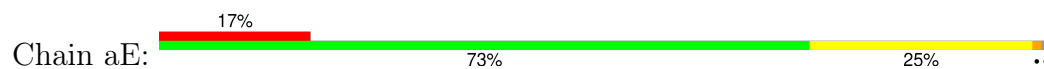
• Molecule 6: gp8, baseplate wedge protein

Chain aD: 28% 69% 28% ..

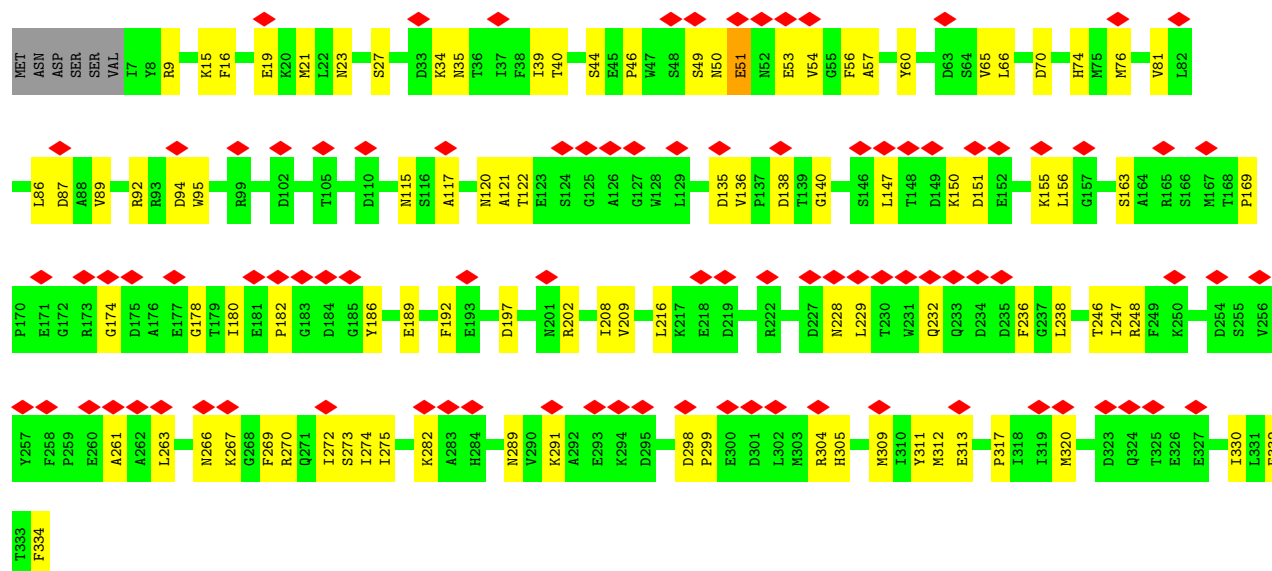




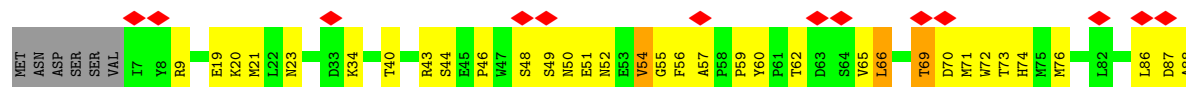
- Molecule 6: gp8, baseplate wedge protein

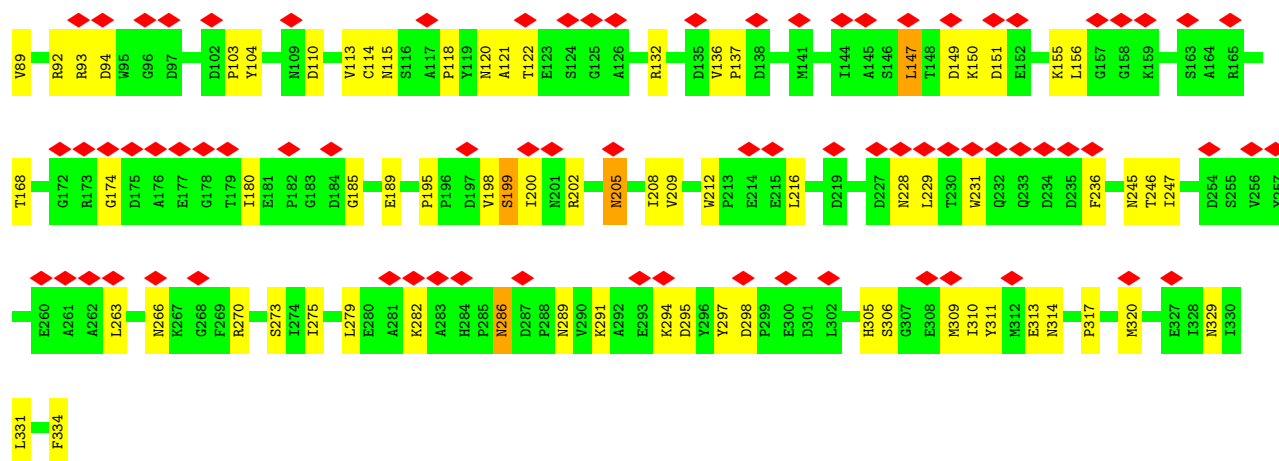


- Molecule 6: gp8, baseplate wedge protein

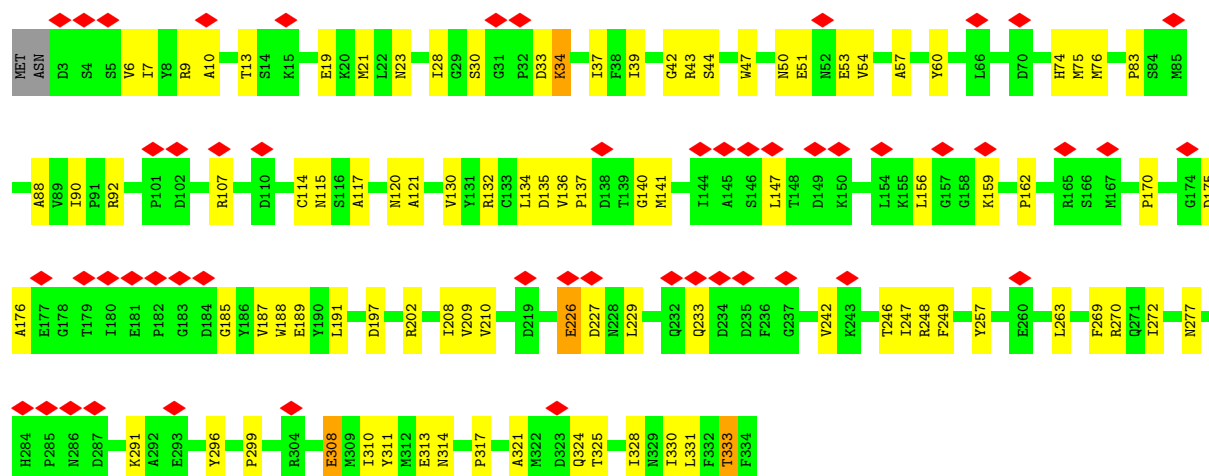


- Molecule 6: gp8, baseplate wedge protein

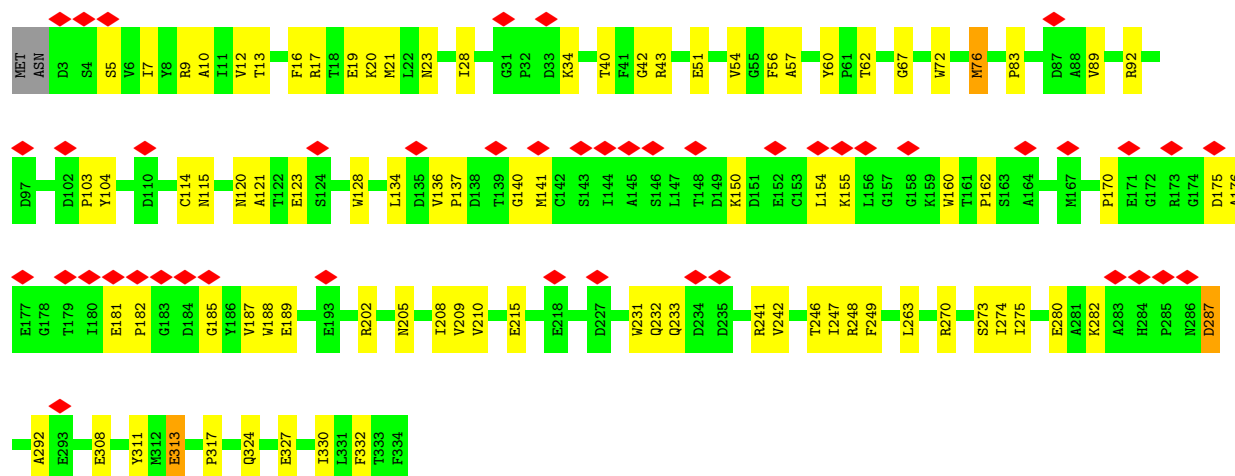


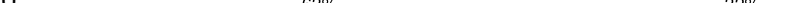


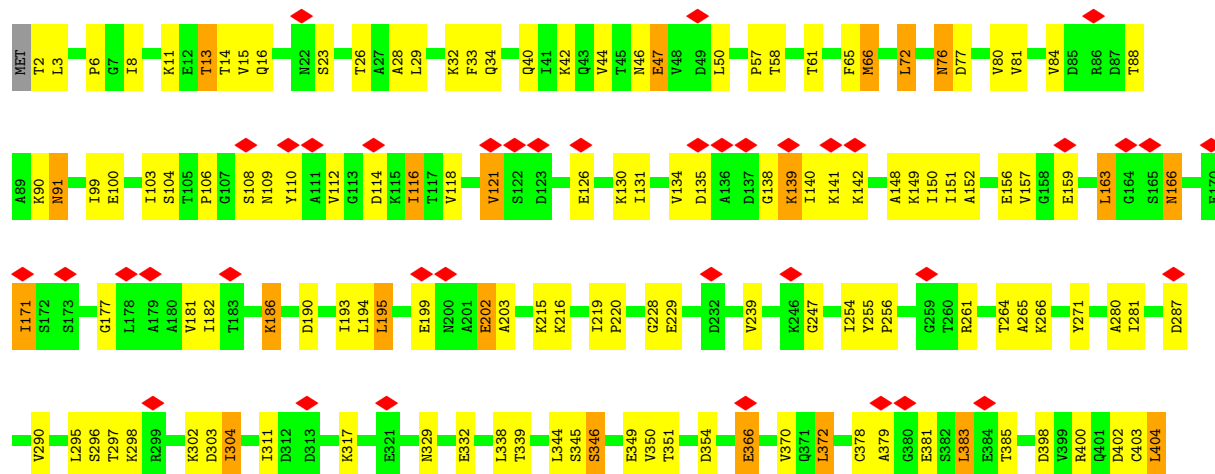
• Molecule 6: gp8, baseplate wedge protein

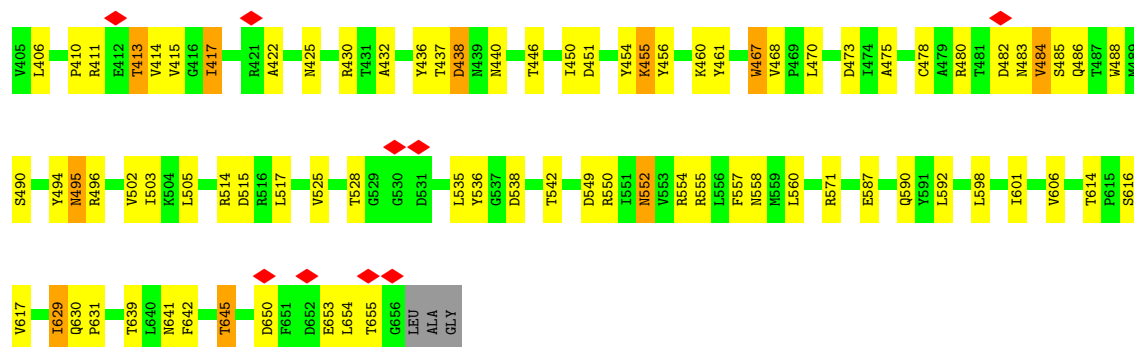


• Molecule 6: gp8, baseplate wedge protein

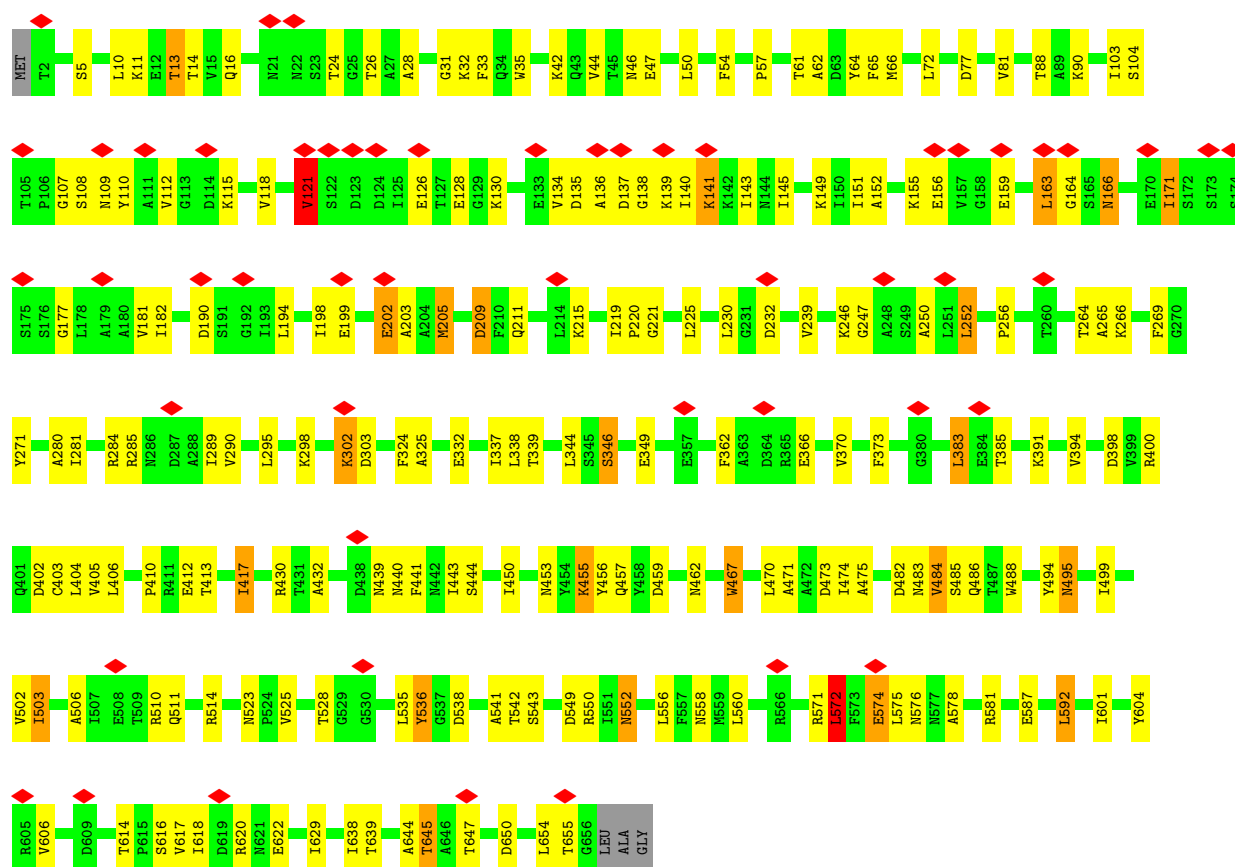


- Chain b0:  5% 63% 32% . .

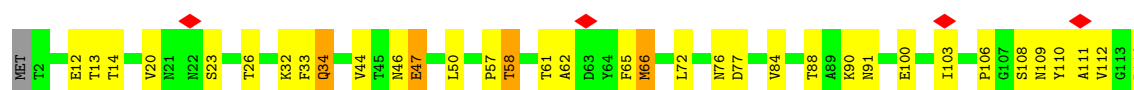


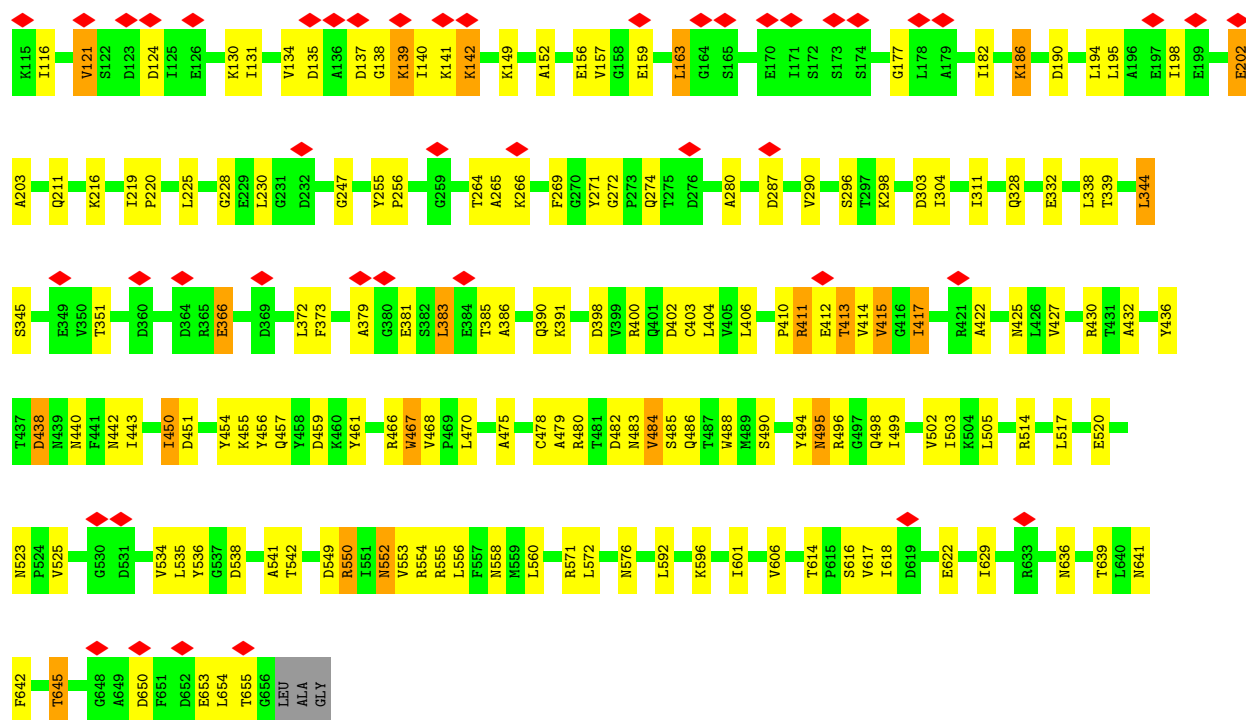


• Molecule 7: gp18, tail sheath protein

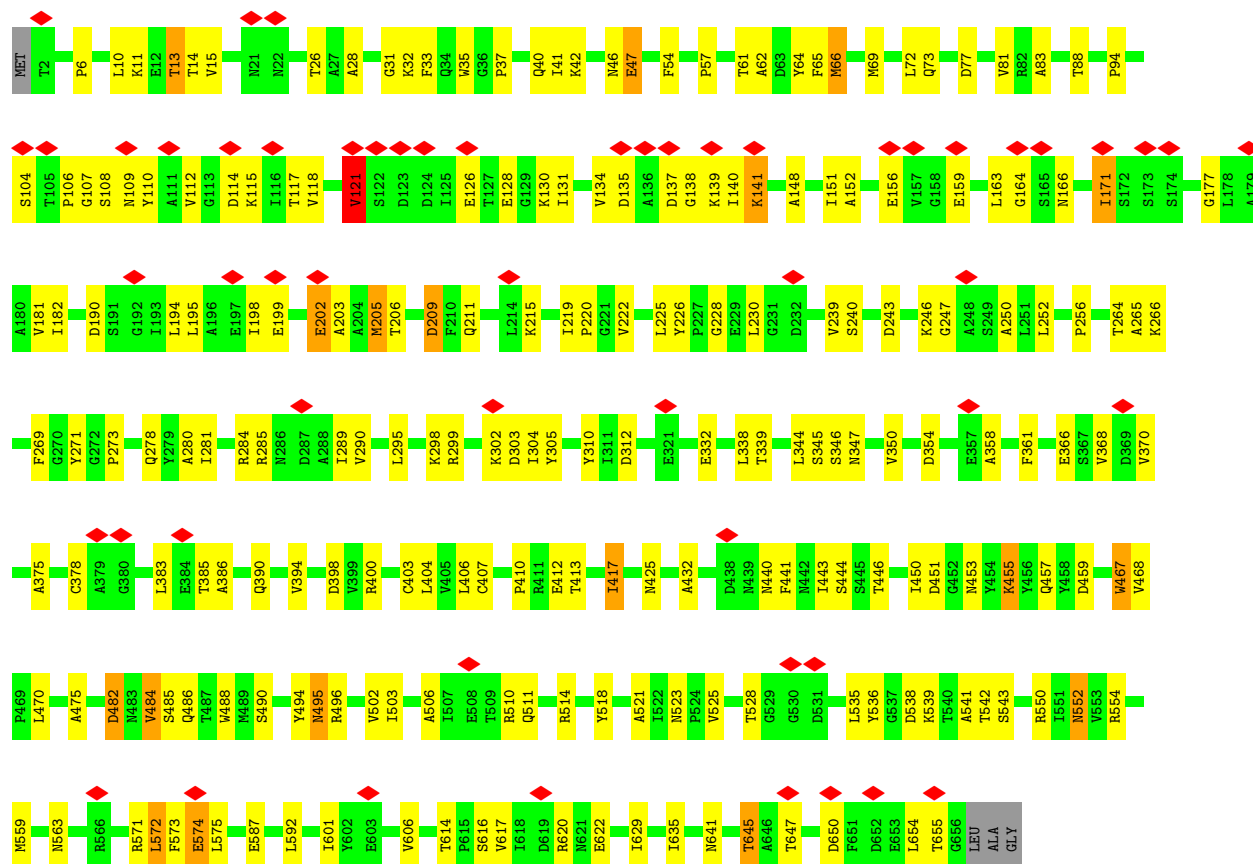


• Molecule 7: gp18, tail sheath protein

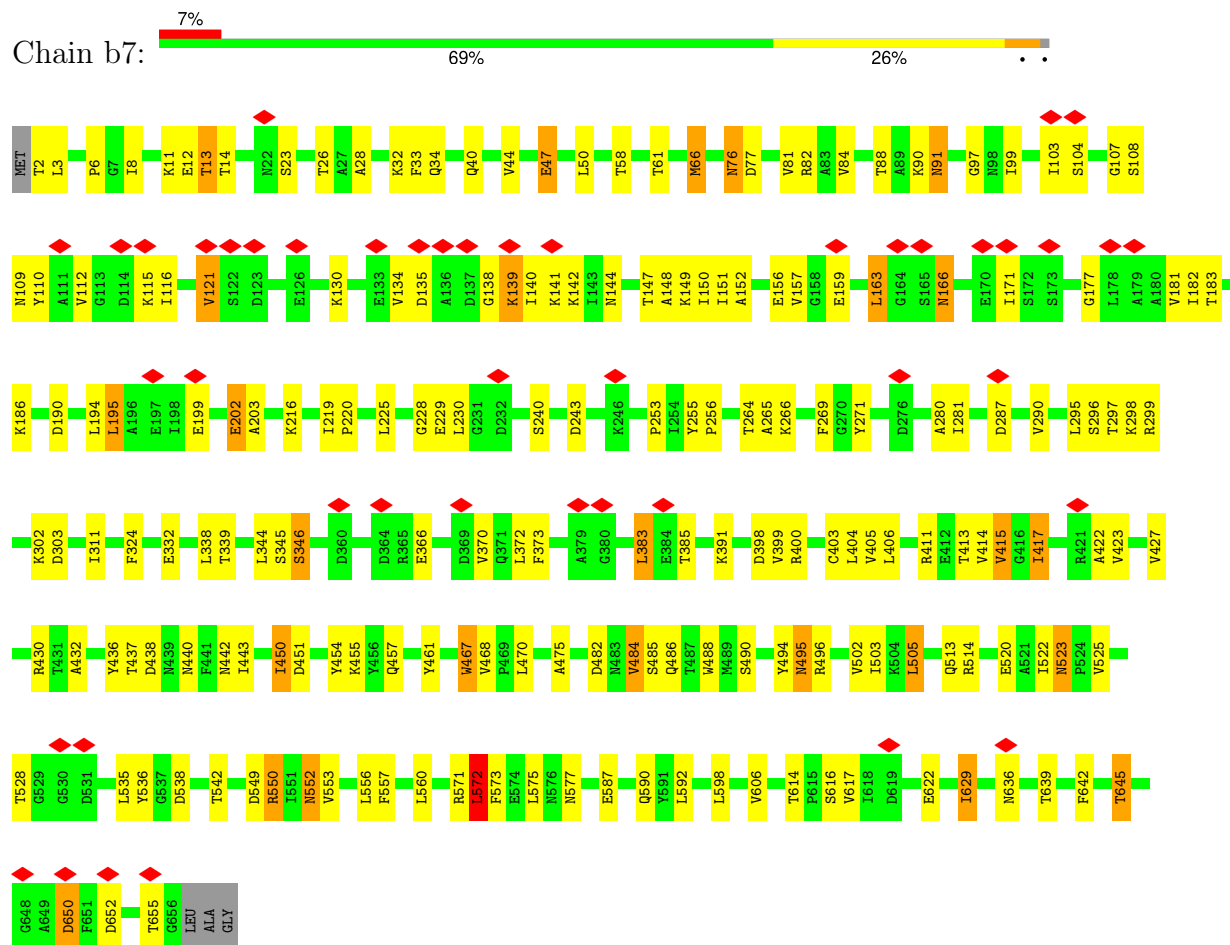




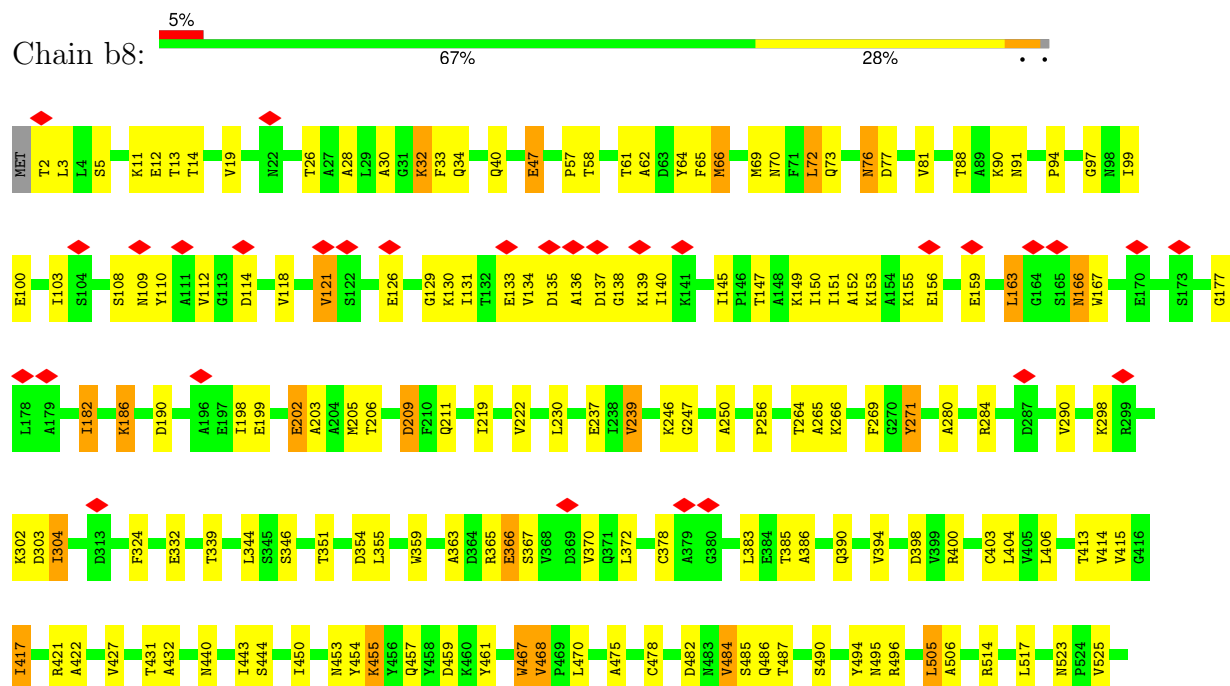
• Molecule 7: gp18, tail sheath protein



- Molecule 7: gp18, tail sheath protein



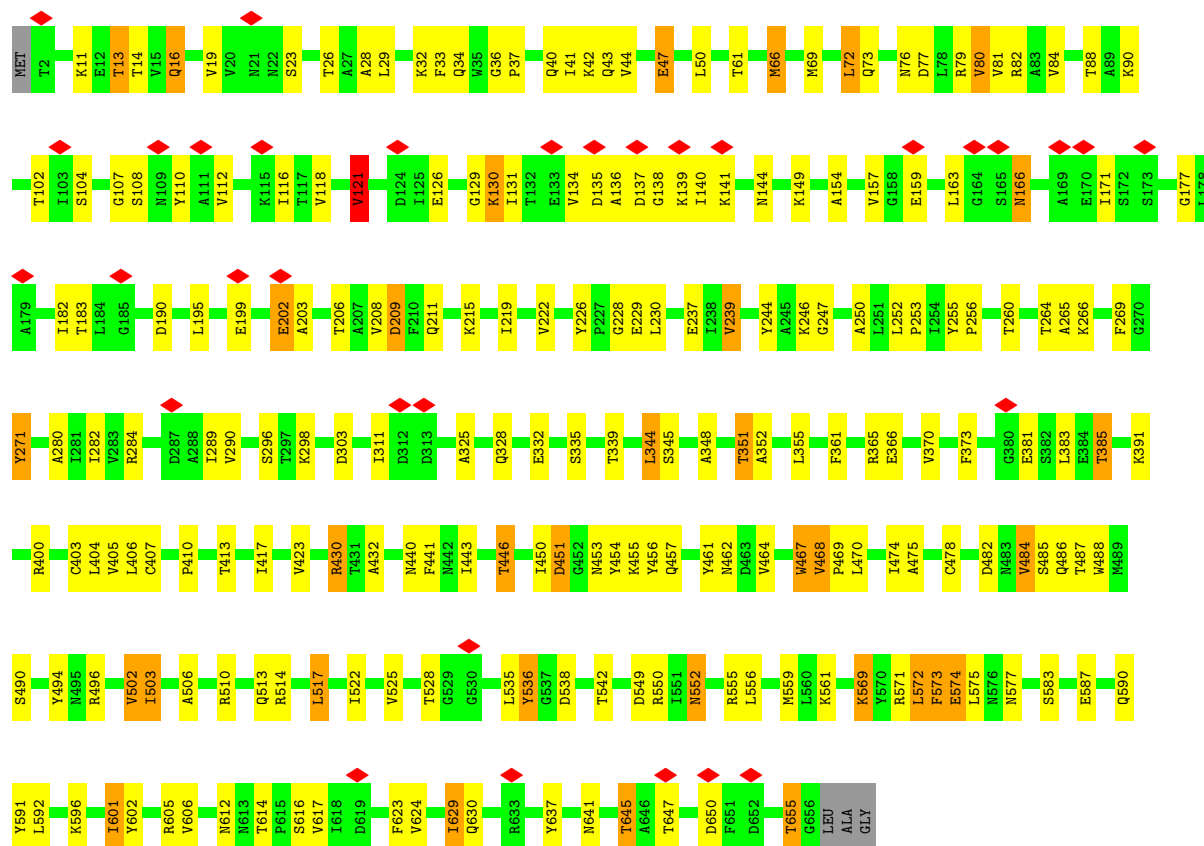
- Molecule 7: gp18, tail sheath protein





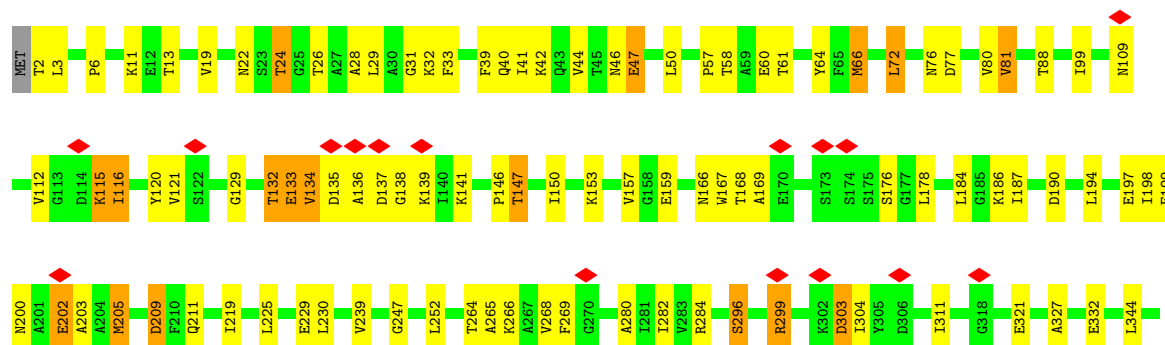
• Molecule 7: gp18, tail sheath protein

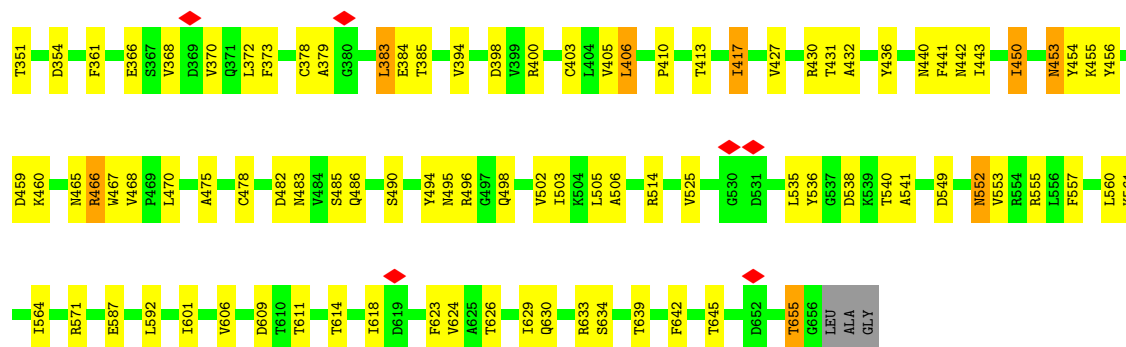
Chain b9: 5% 66% 28% 5% •



• Molecule 7: gp18, tail sheath protein

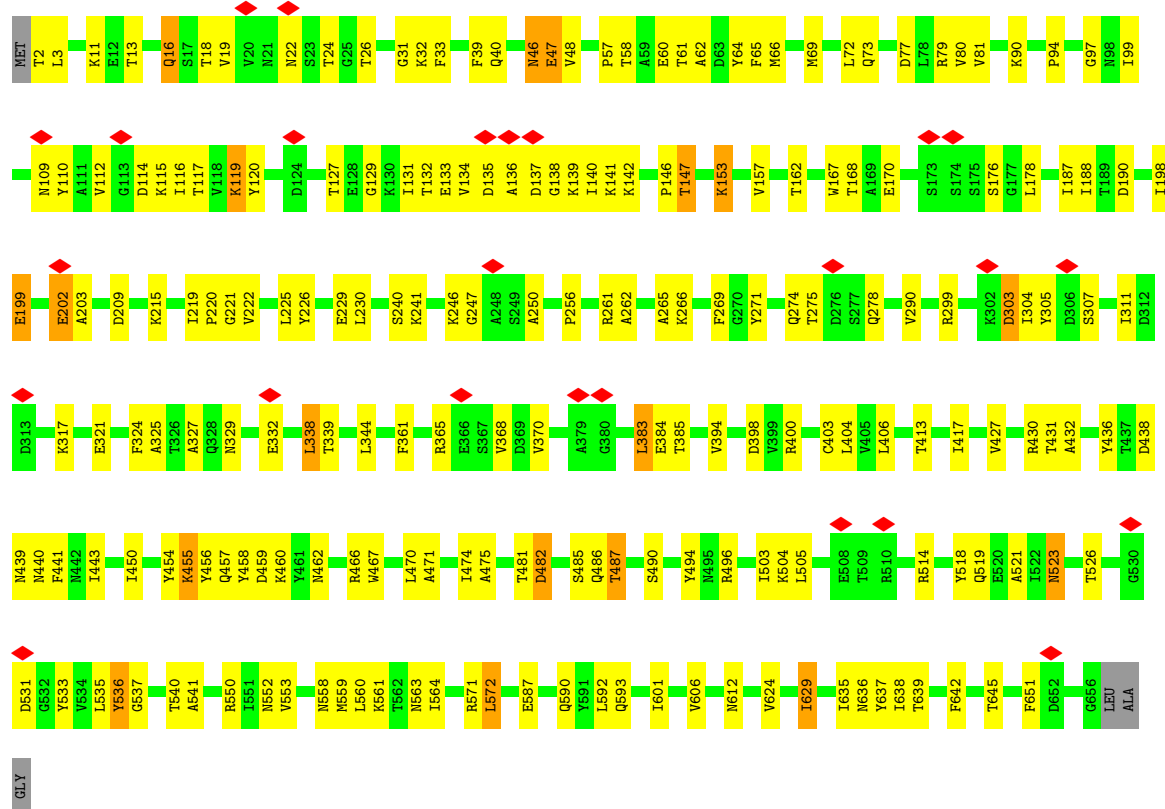
Chain bN: 70% 26% 2% 2% • •





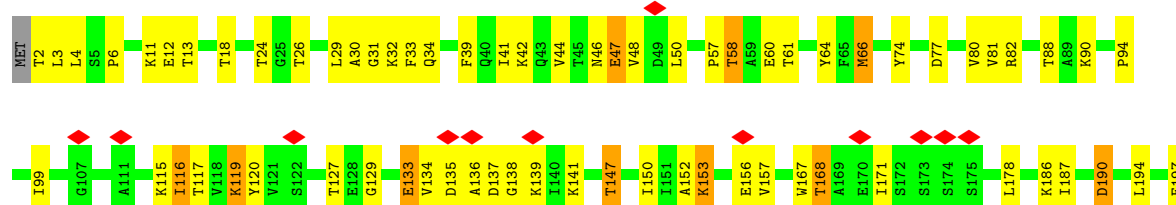
- Molecule 7: gp18, tail sheath protein

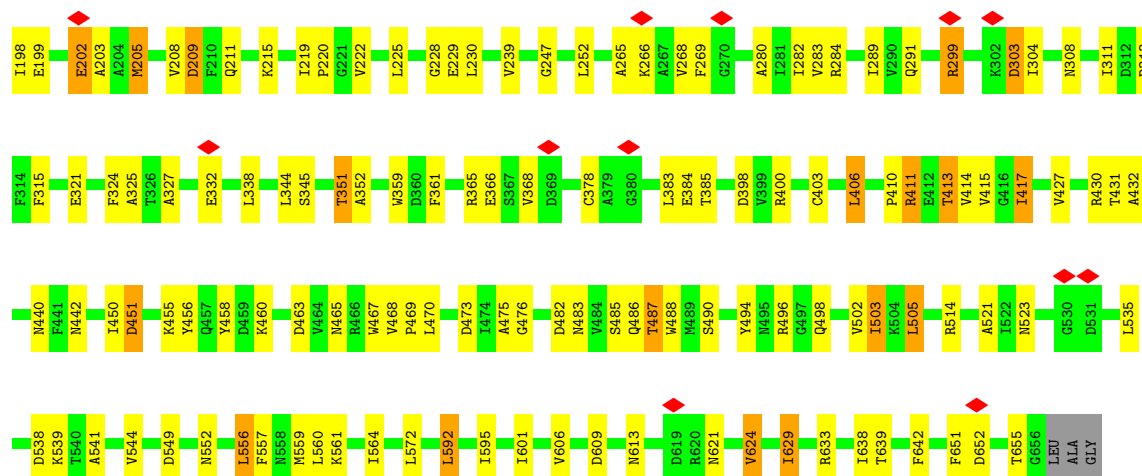
Chain bO: 67% 29%



- Molecule 7: gp18, tail sheath protein

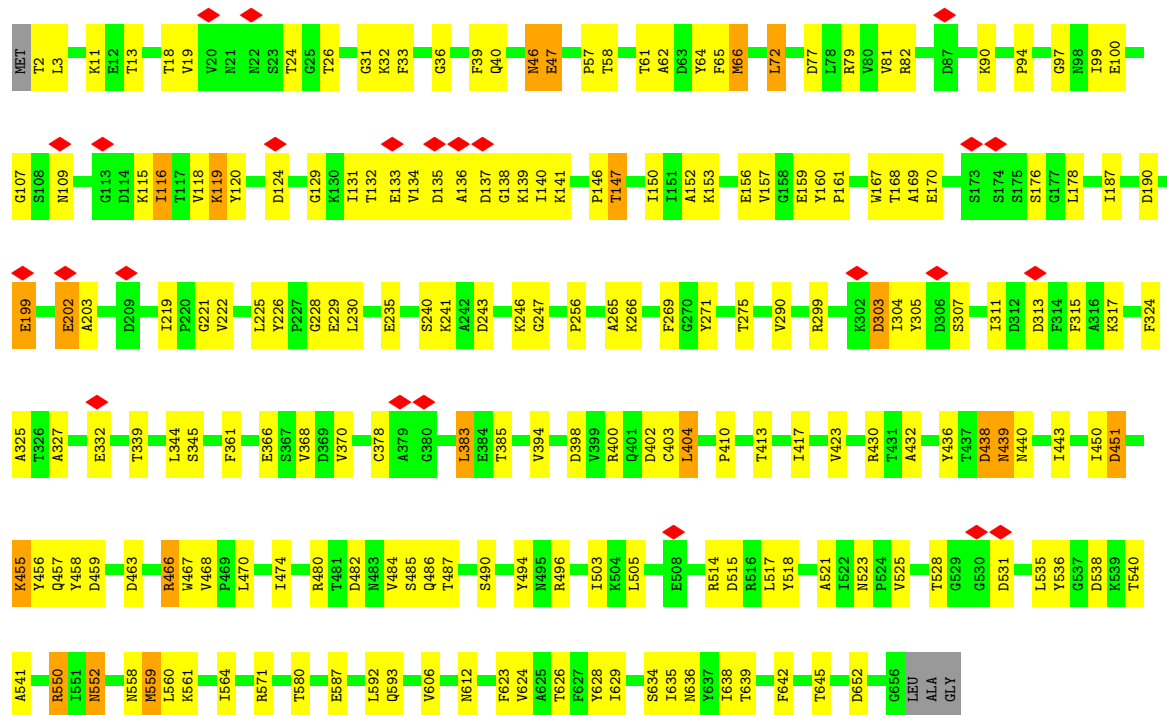
Chain bP: 69% 26%





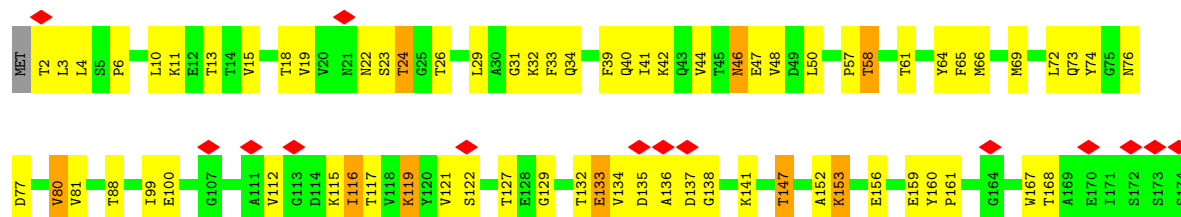
- Molecule 7: gp18, tail sheath protein

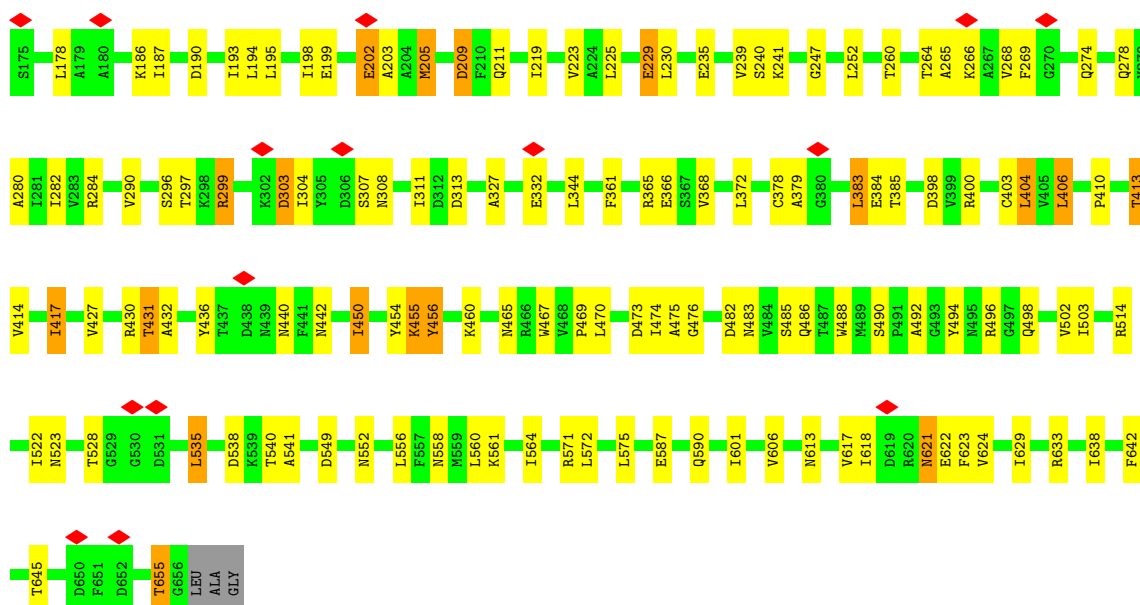
Chain bQ: 69% 27%



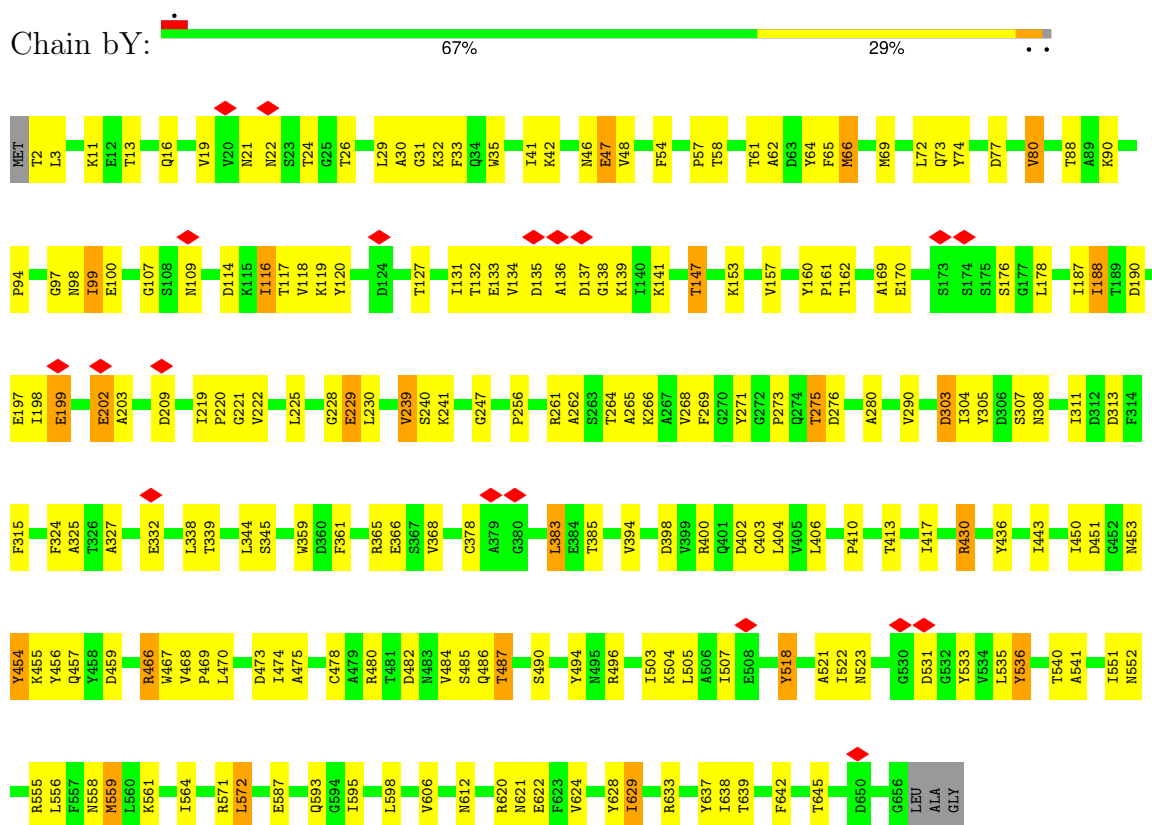
- Molecule 7: gp18, tail sheath protein

Chain bR: 68% 27%



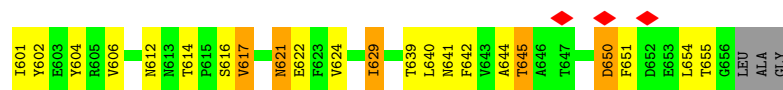


- Molecule 7: gp18, tail sheath protein

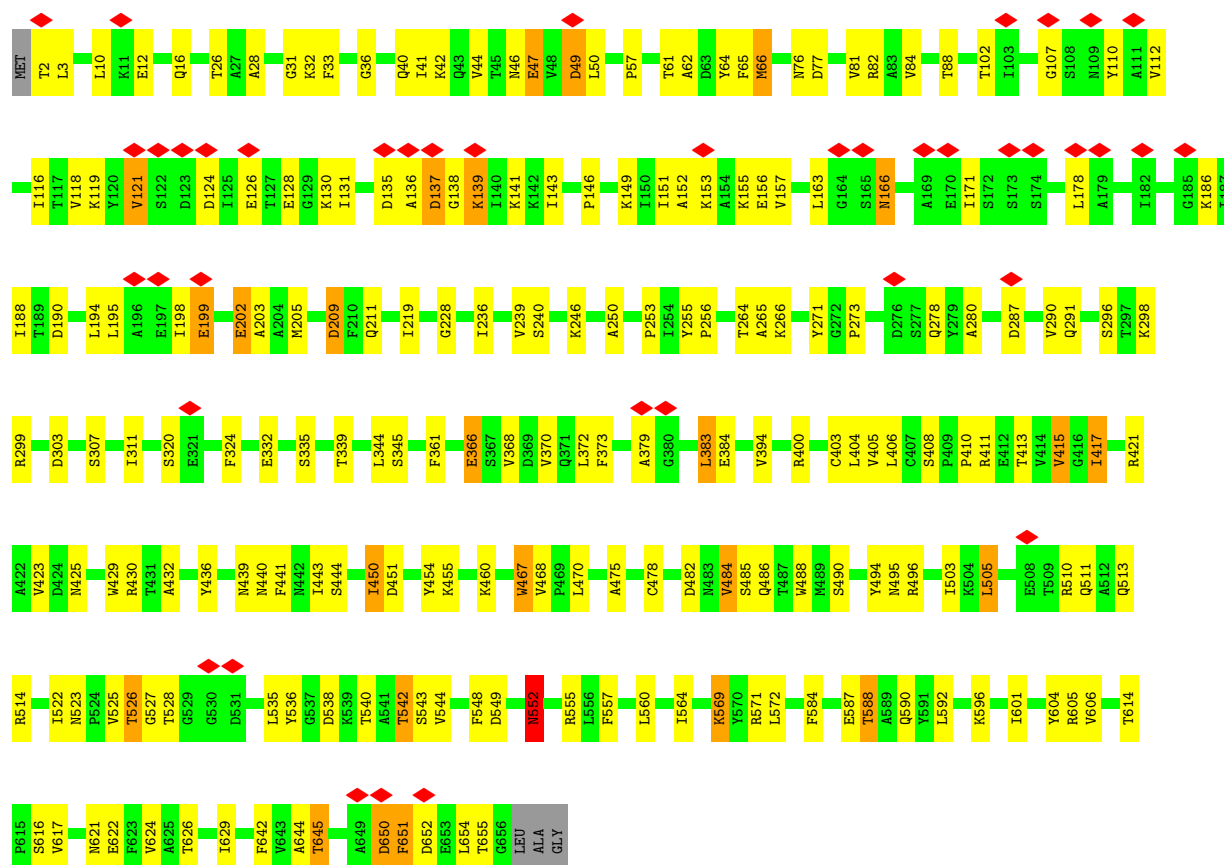


- Molecule 7: gp18, tail sheath protein

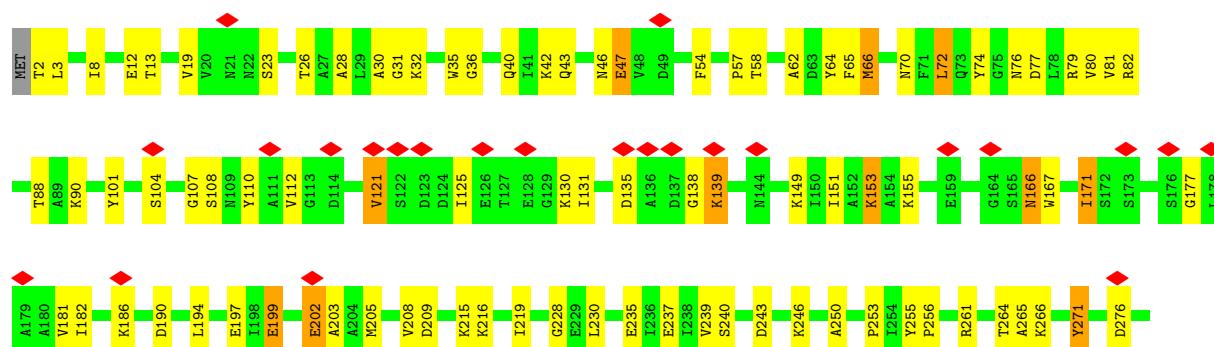




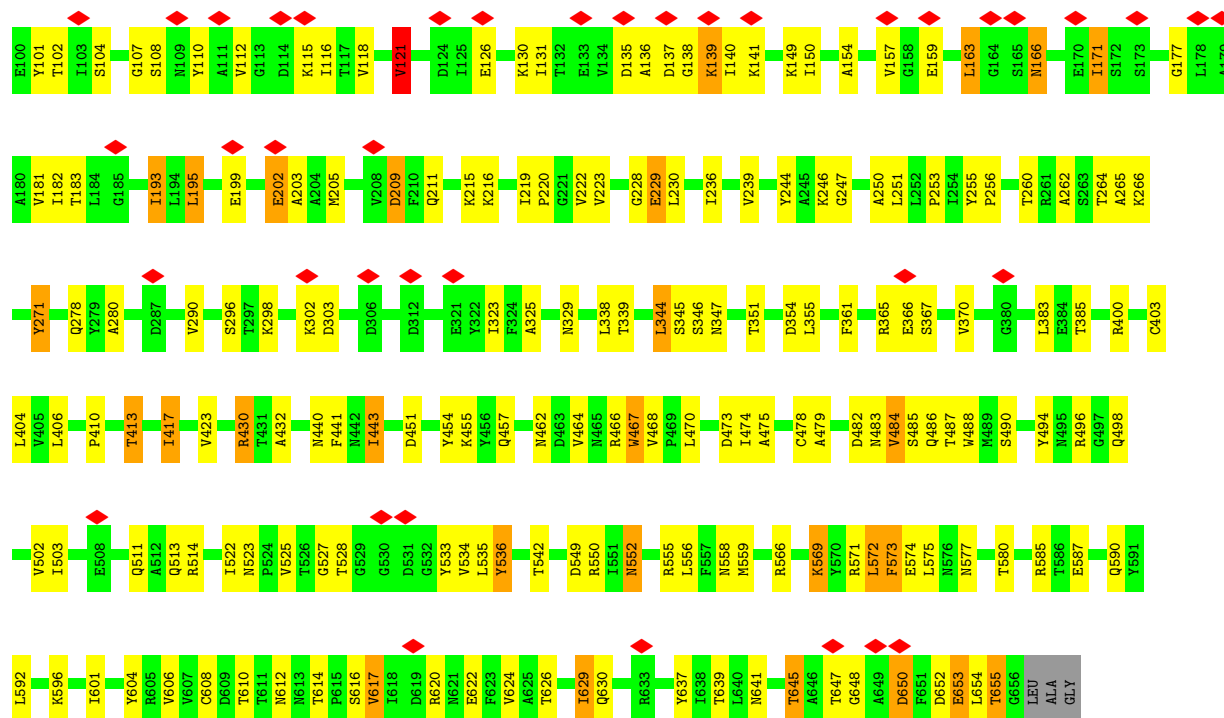
• Molecule 7: gp18, tail sheath protein



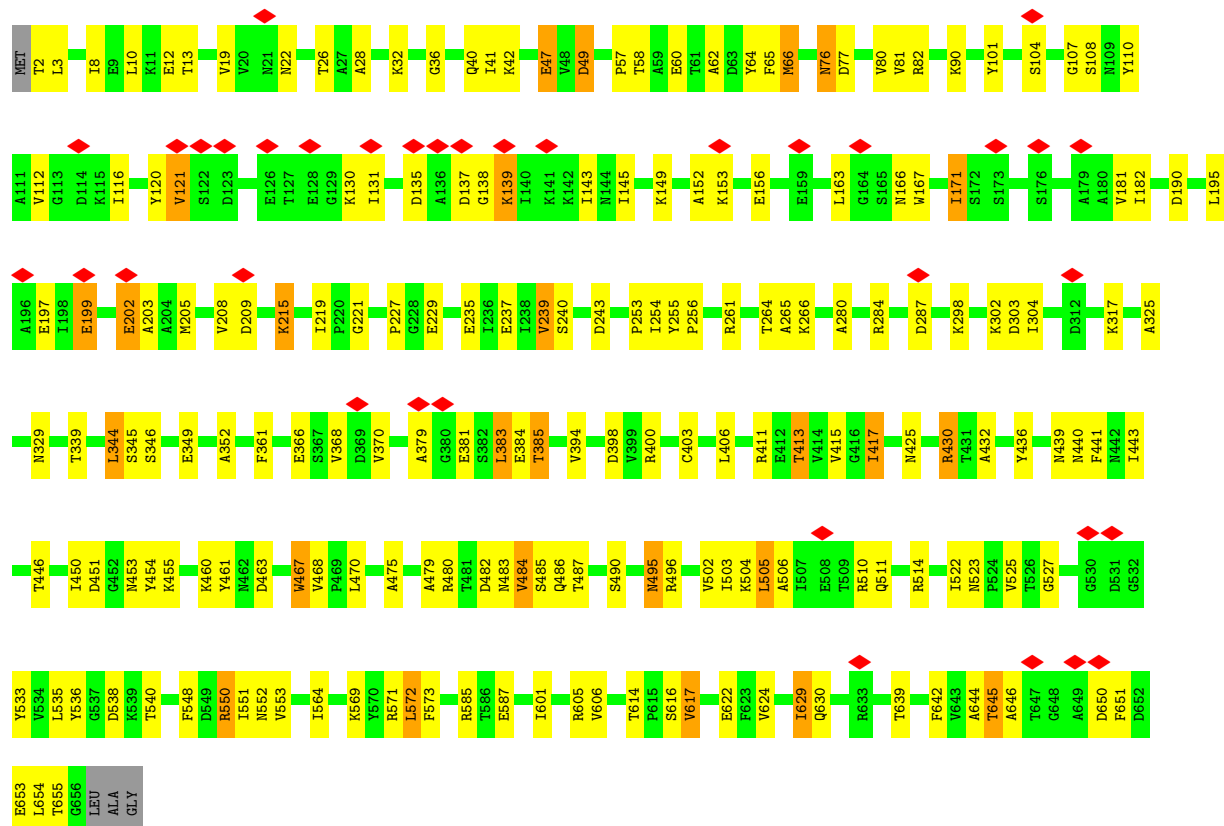
• Molecule 7: gp18, tail sheath protein



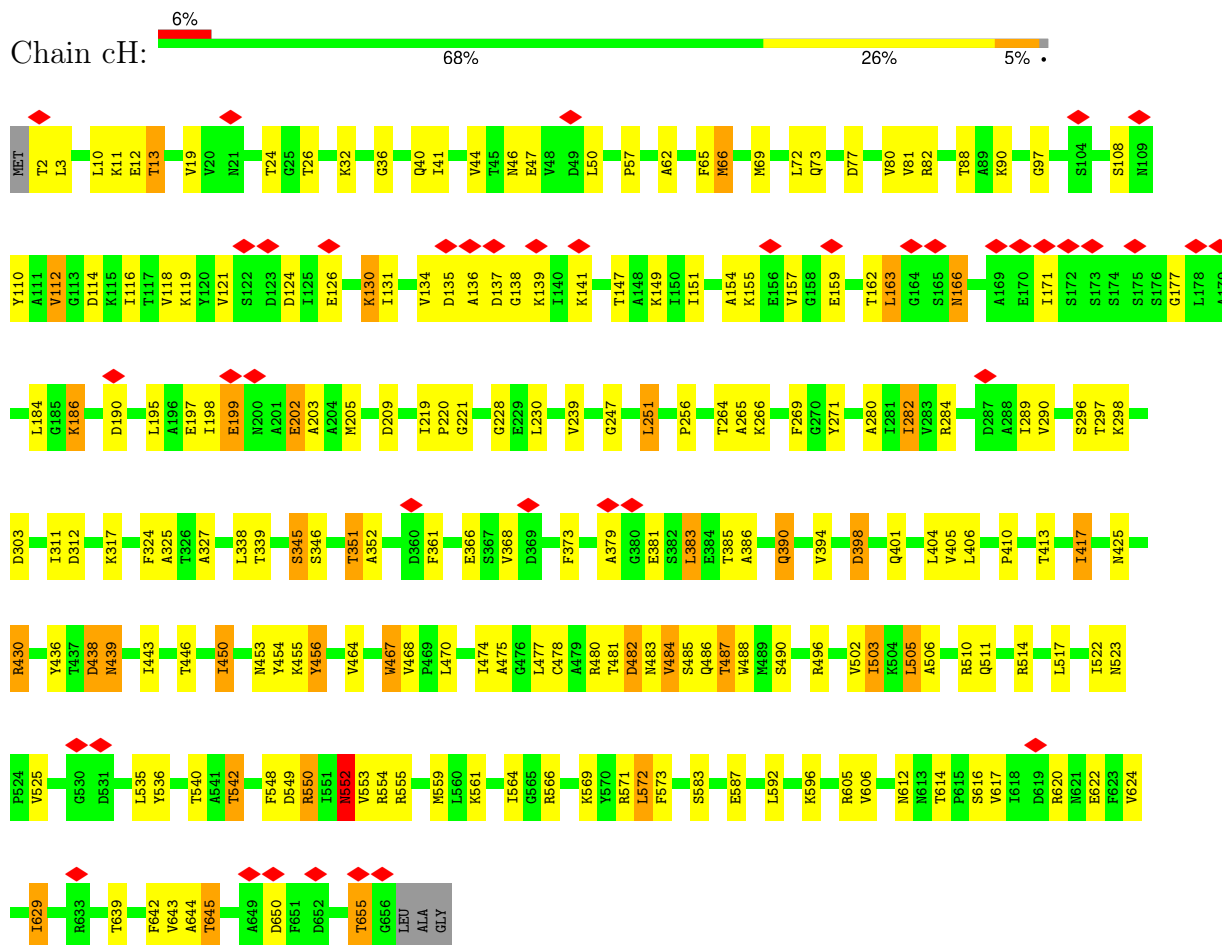




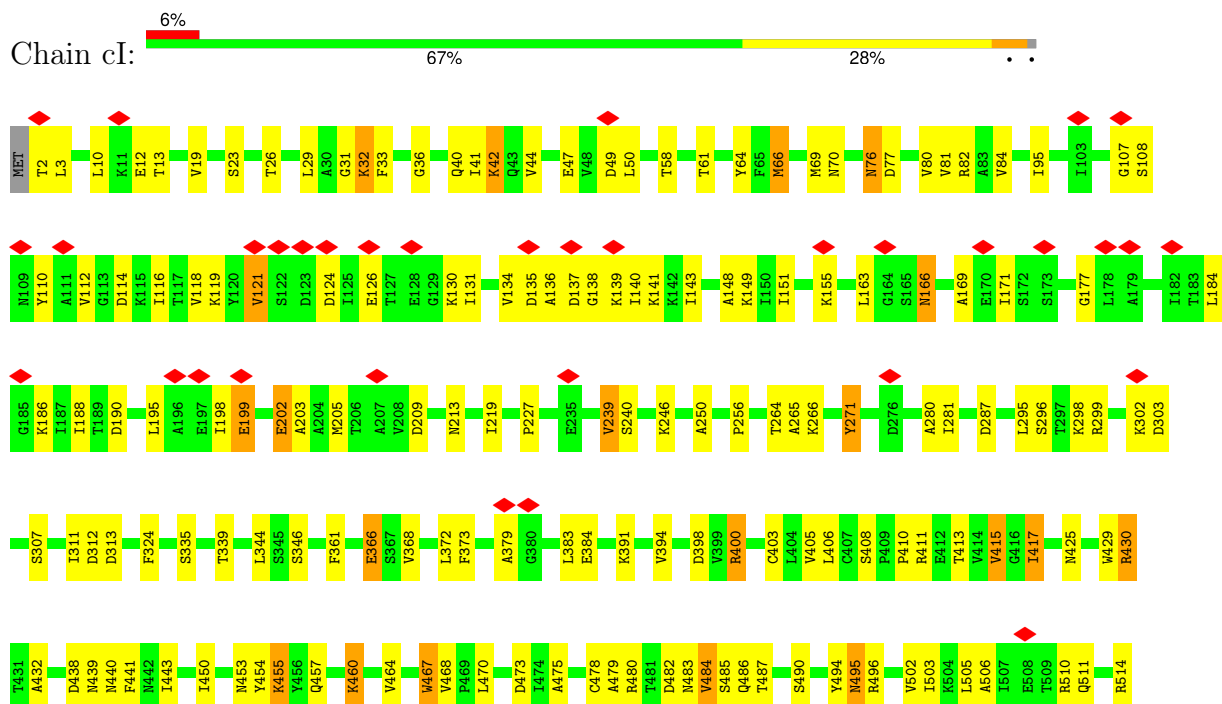
• Molecule 7: gp18, tail sheath protein

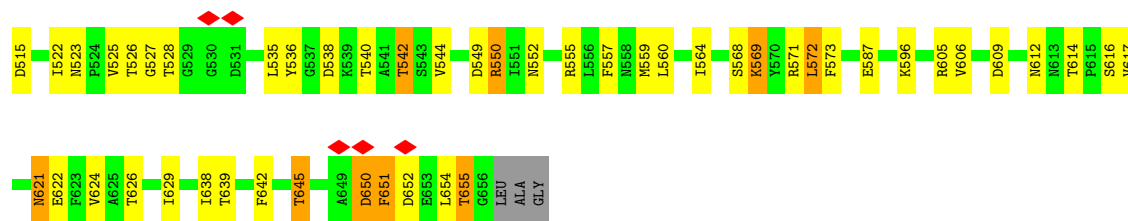


- Molecule 7: gp18, tail sheath protein

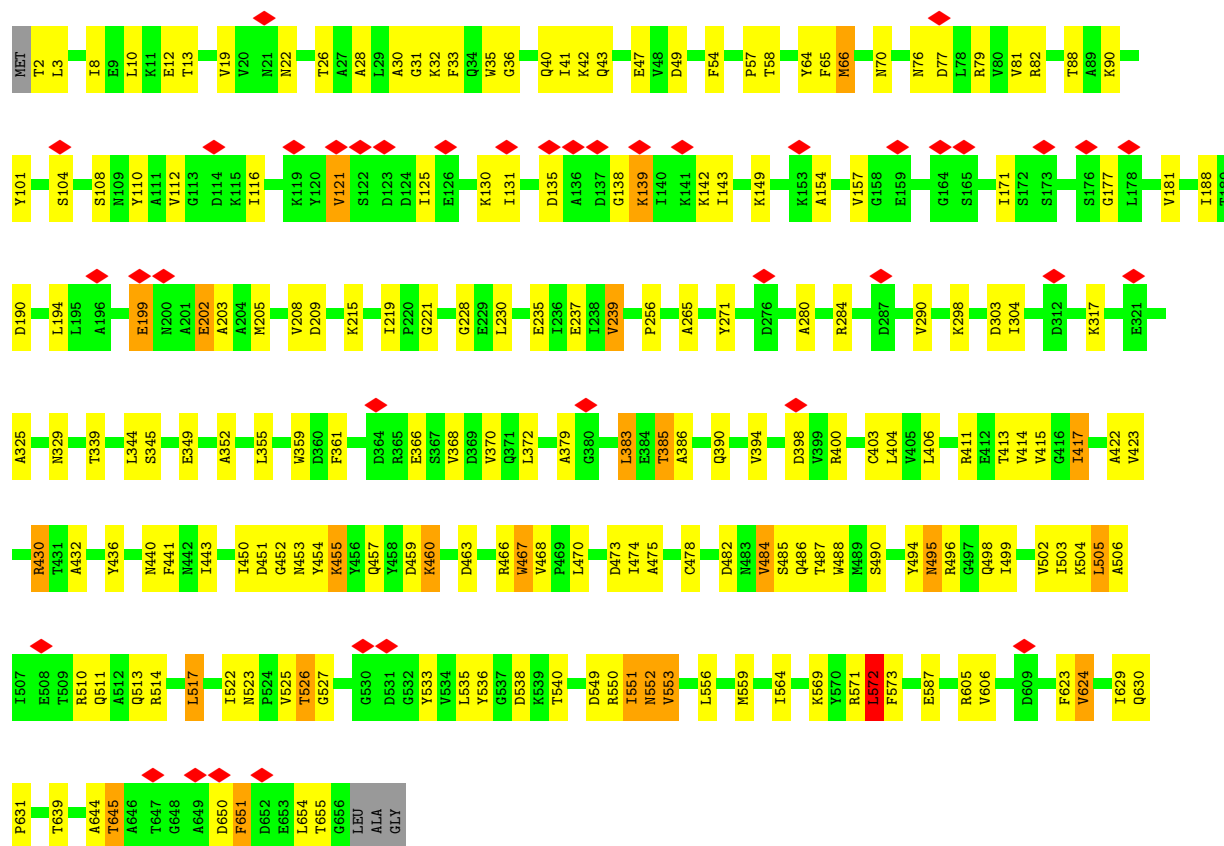


- Molecule 7: gp18, tail sheath protein

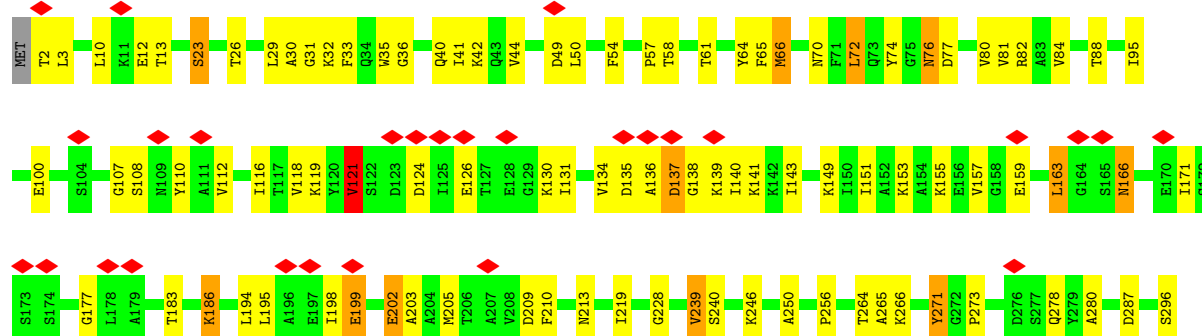


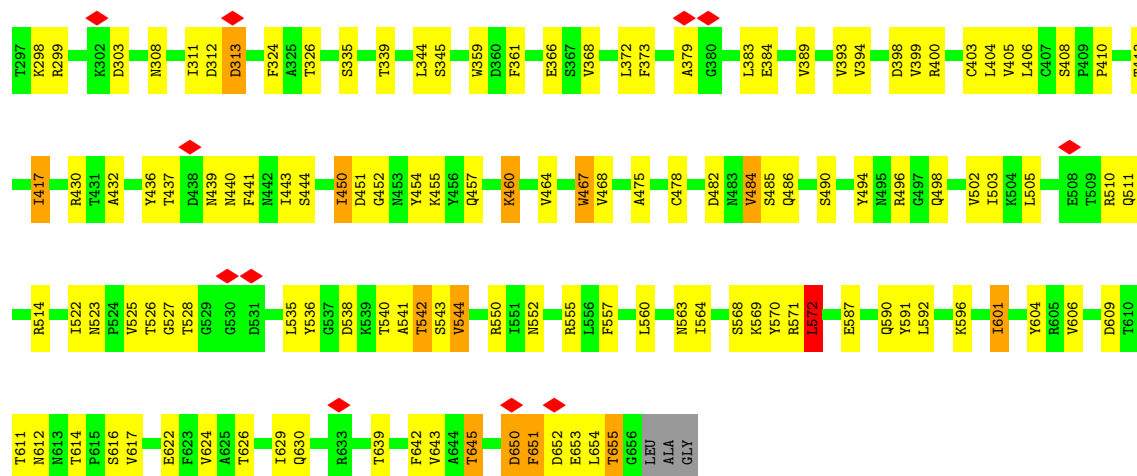


• Molecule 7: gp18, tail sheath protein

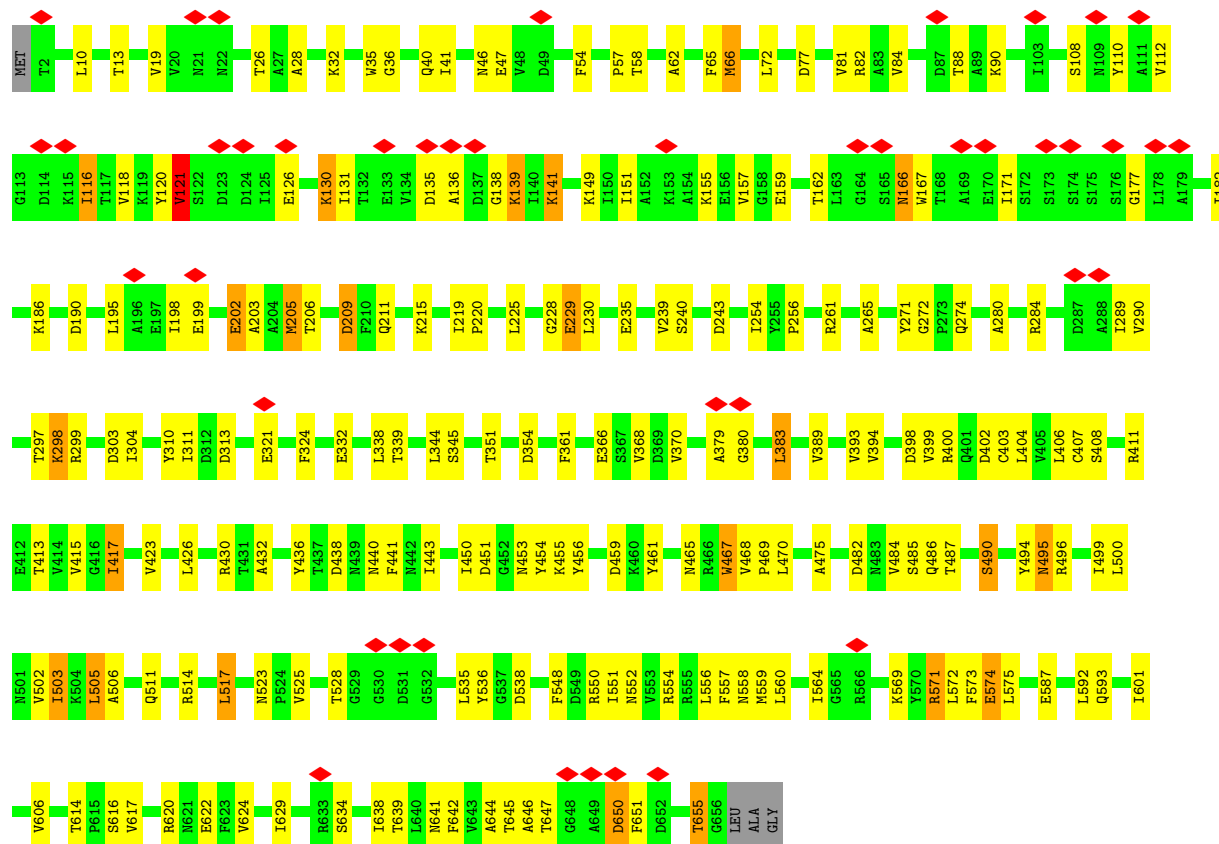


• Molecule 7: gp18, tail sheath protein



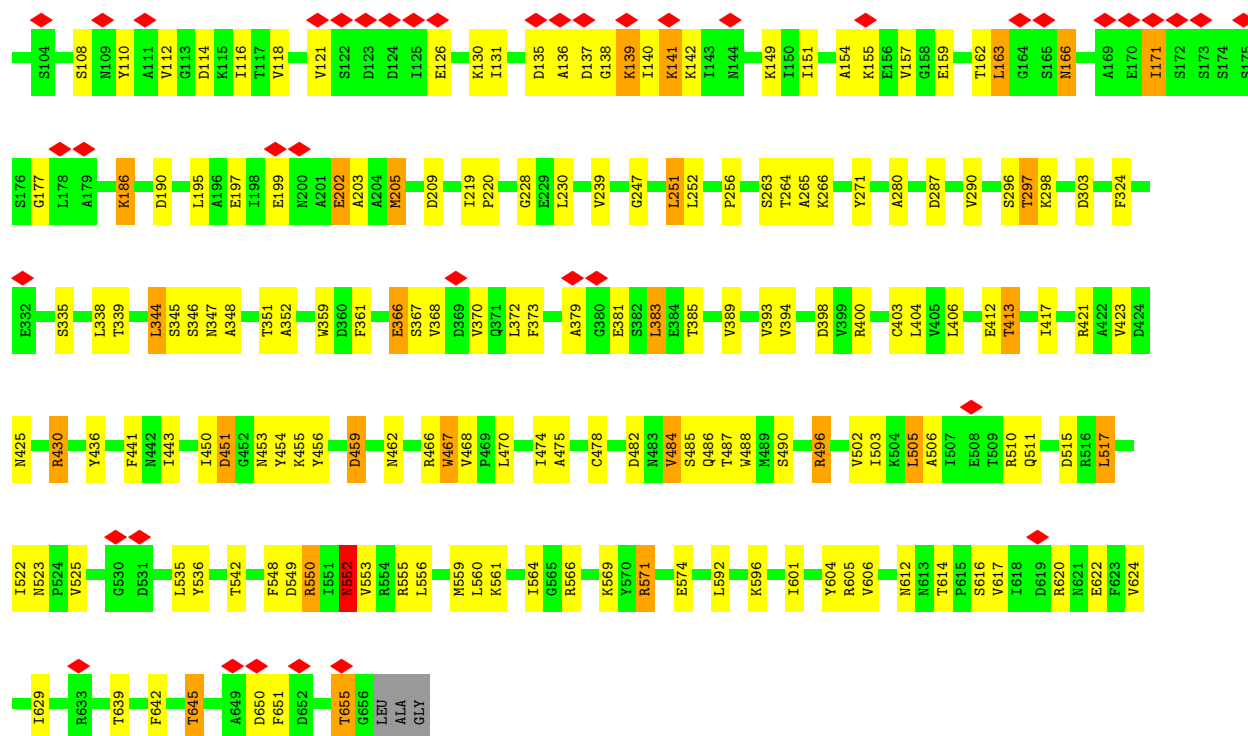


• Molecule 7: gp18, tail sheath protein

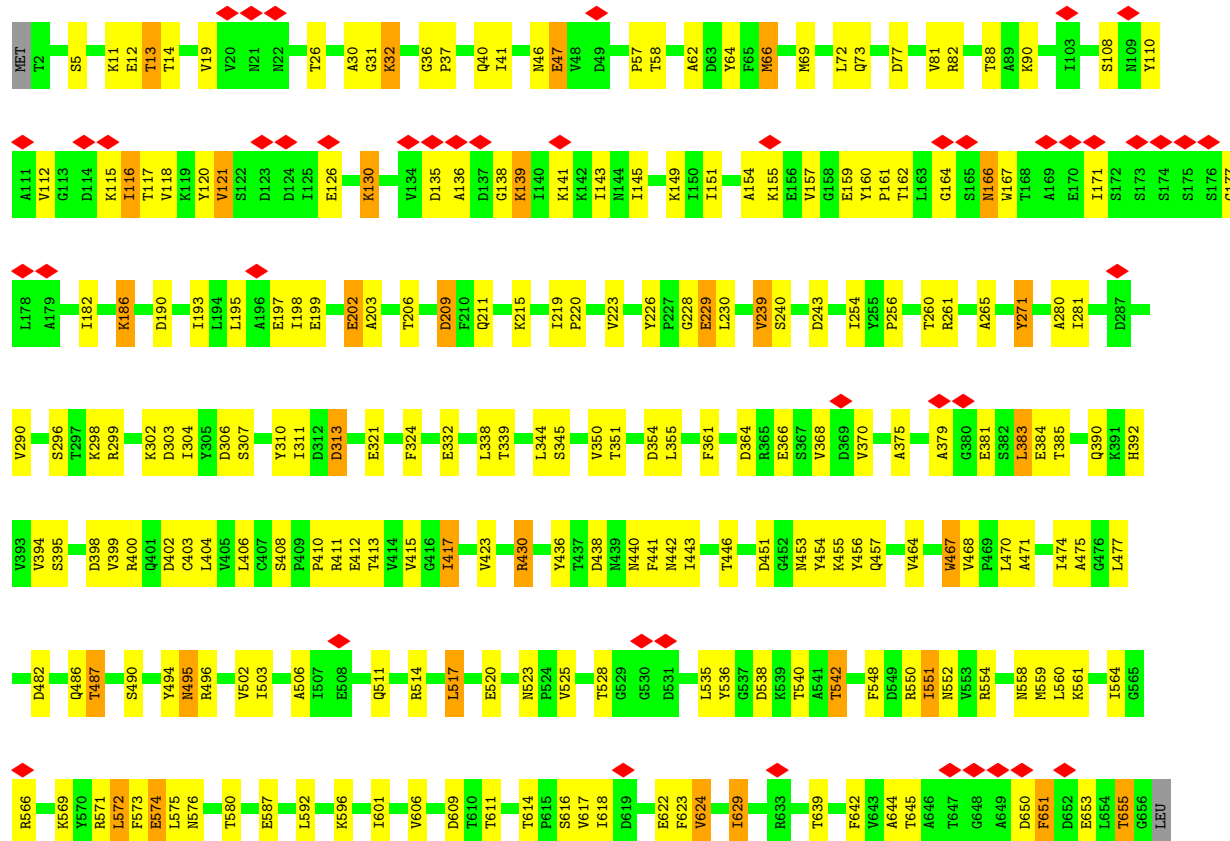


• Molecule 7: gp18, tail sheath protein



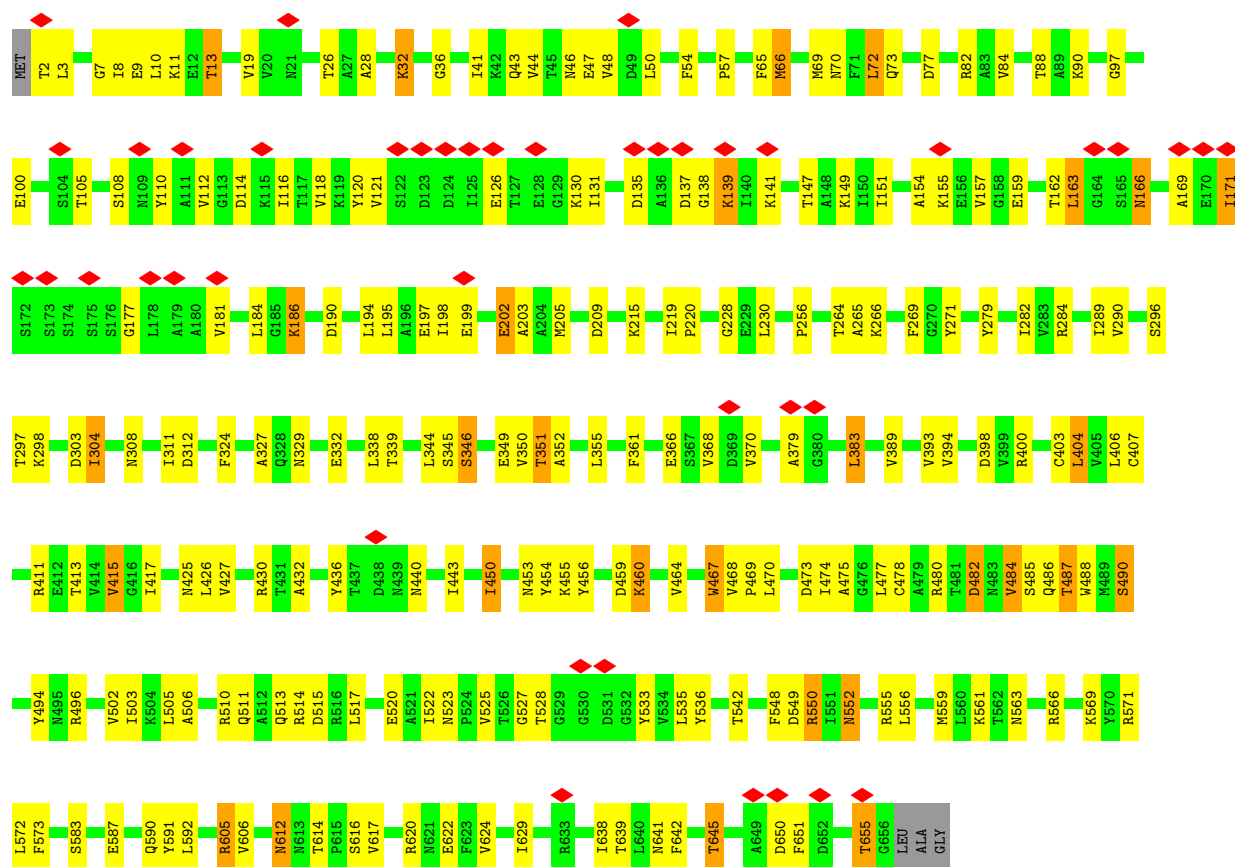


• Molecule 7: gp18, tail sheath protein

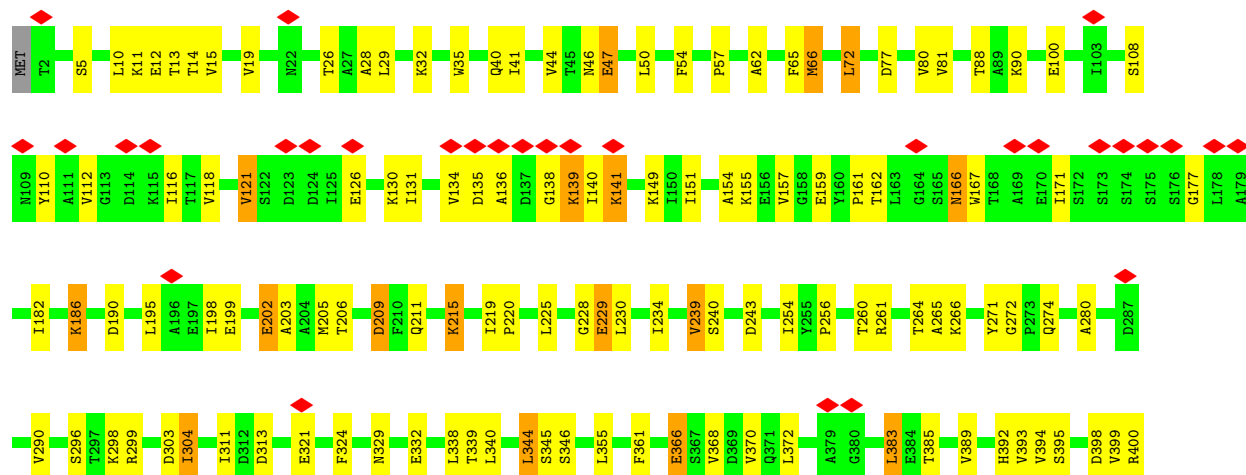


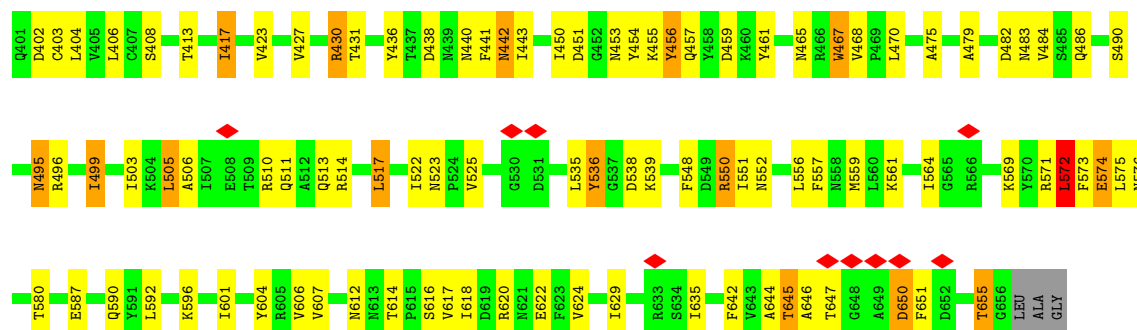
ALA
GLY

- Molecule 7: gp18, tail sheath protein

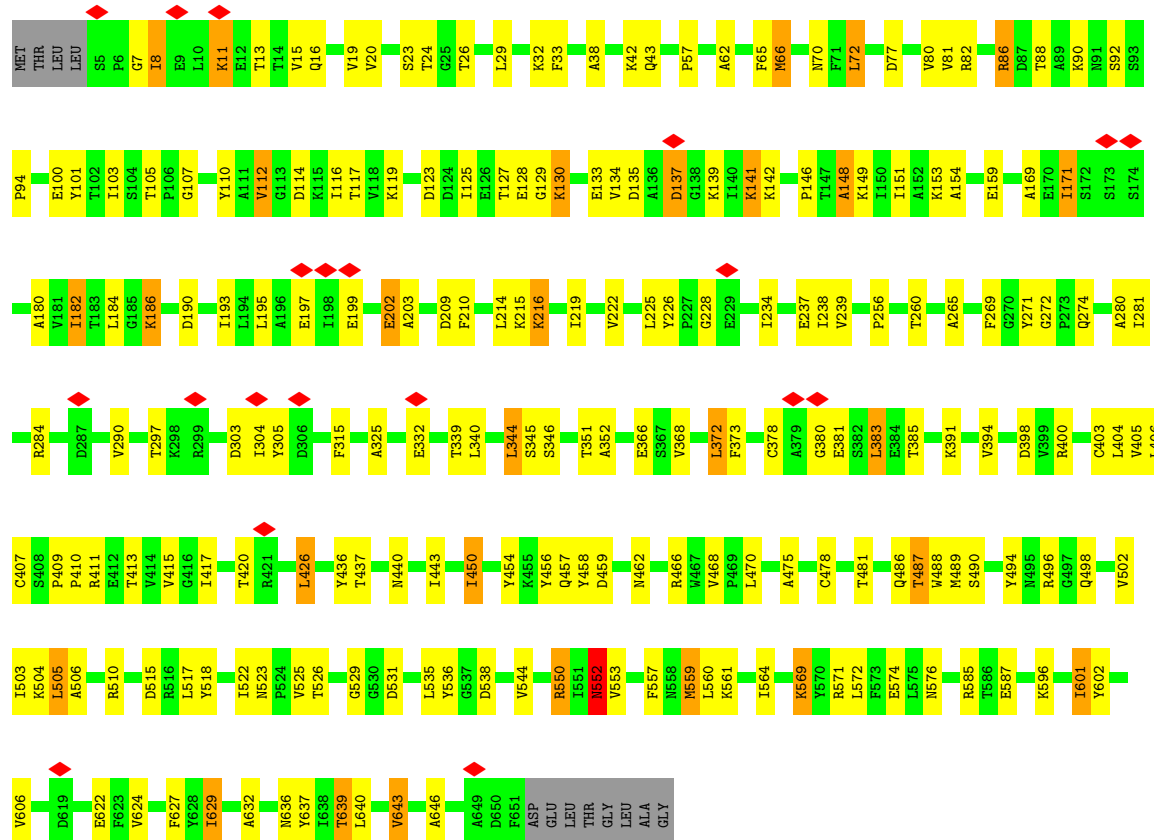


- Molecule 7: gp18, tail sheath protein

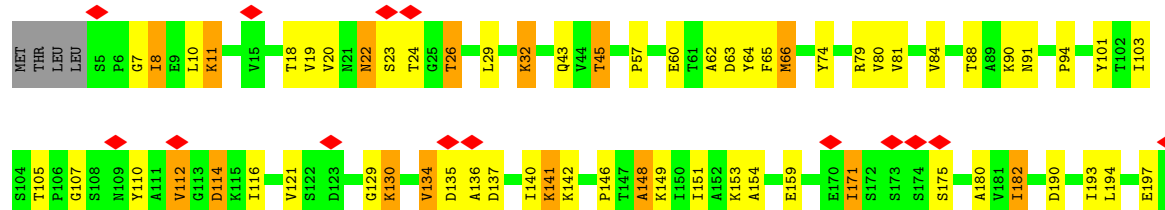


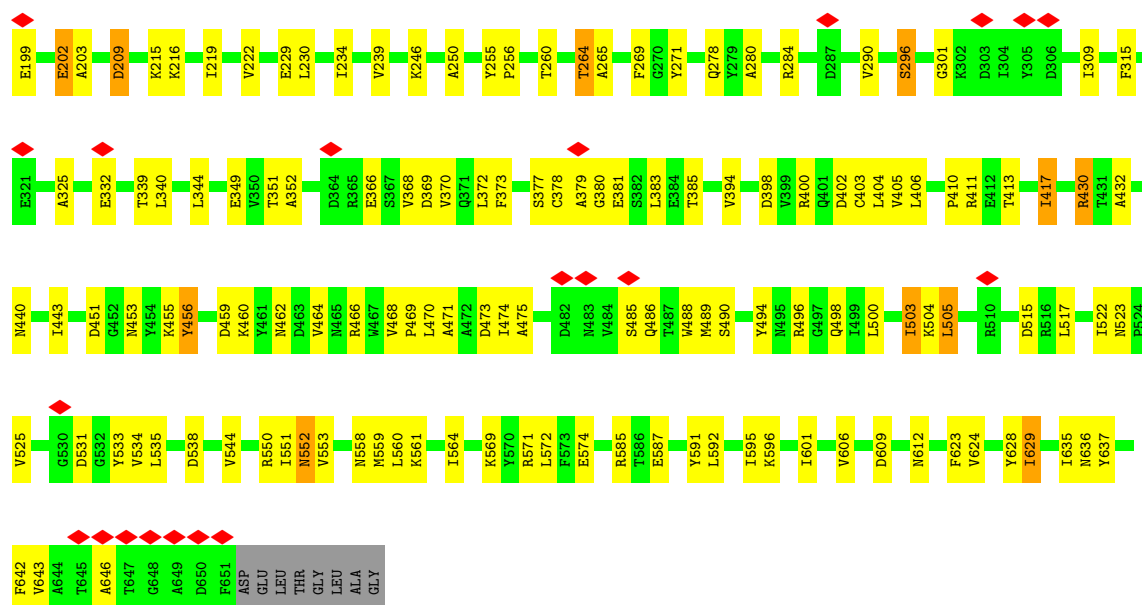


• Molecule 7: gp18, tail sheath protein

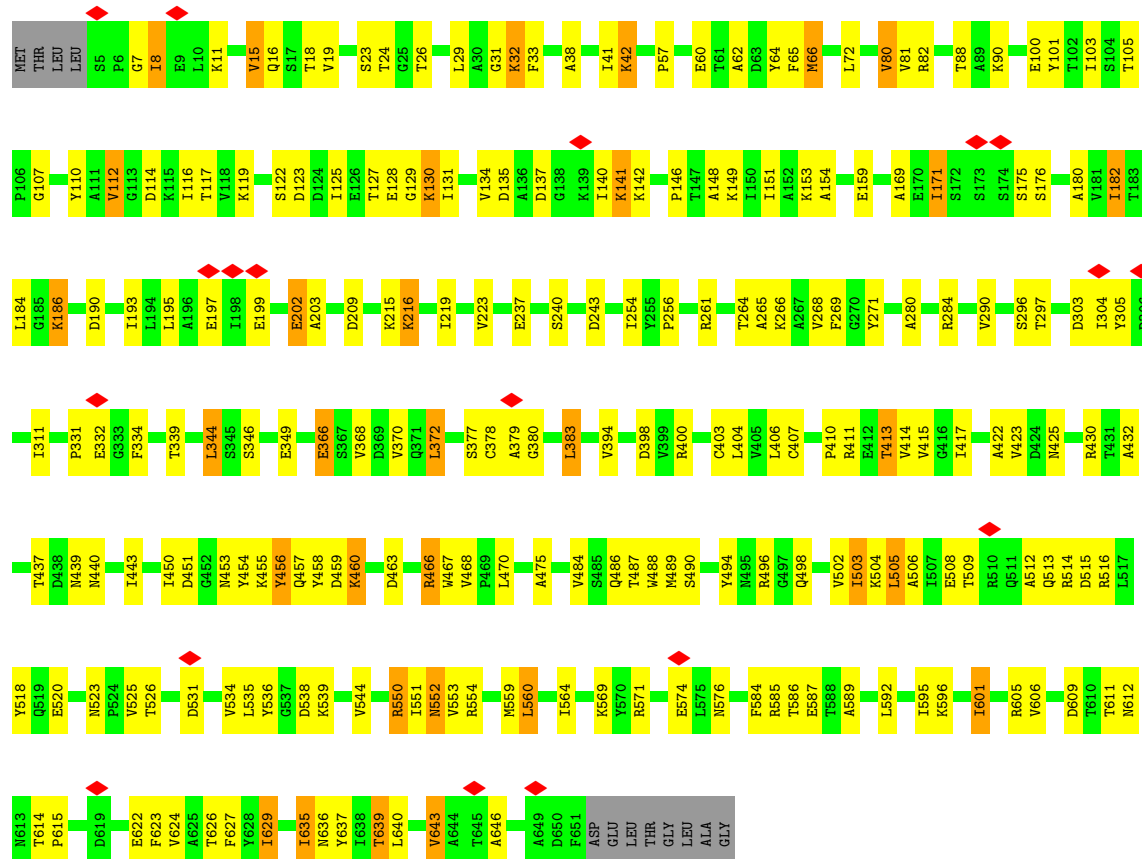


• Molecule 7: gp18, tail sheath protein





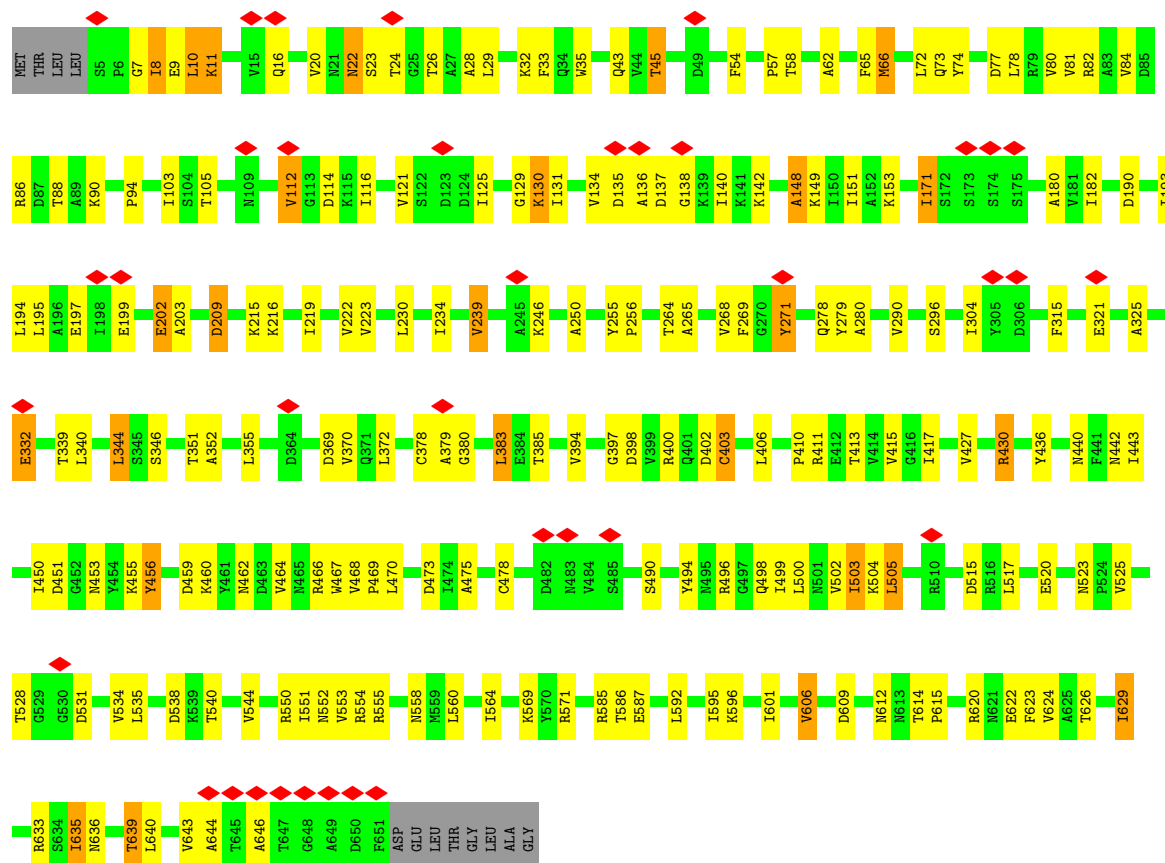
- Molecule 7: gp18, tail sheath protein



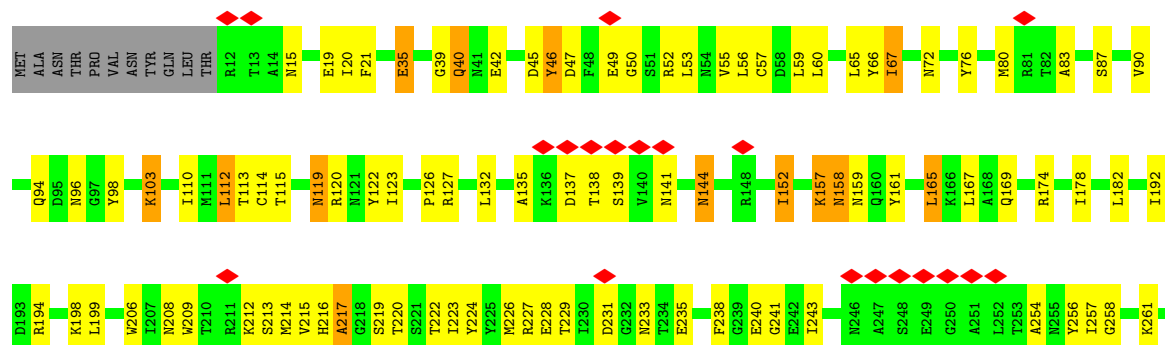
- Molecule 7: gp18, tail sheath protein

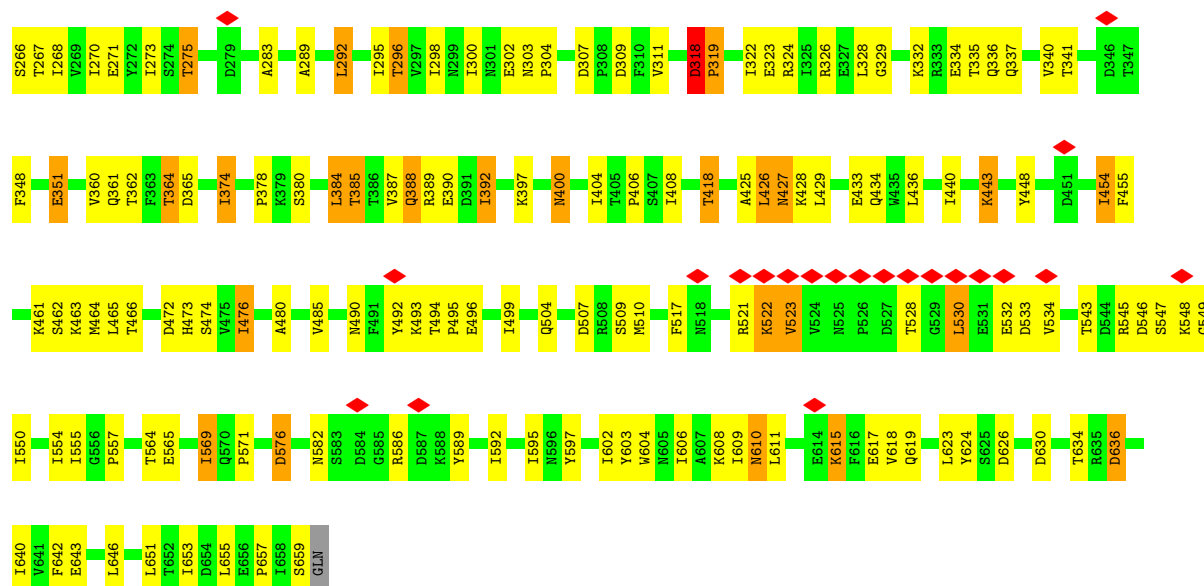


• Molecule 7: gp18, tail sheath protein

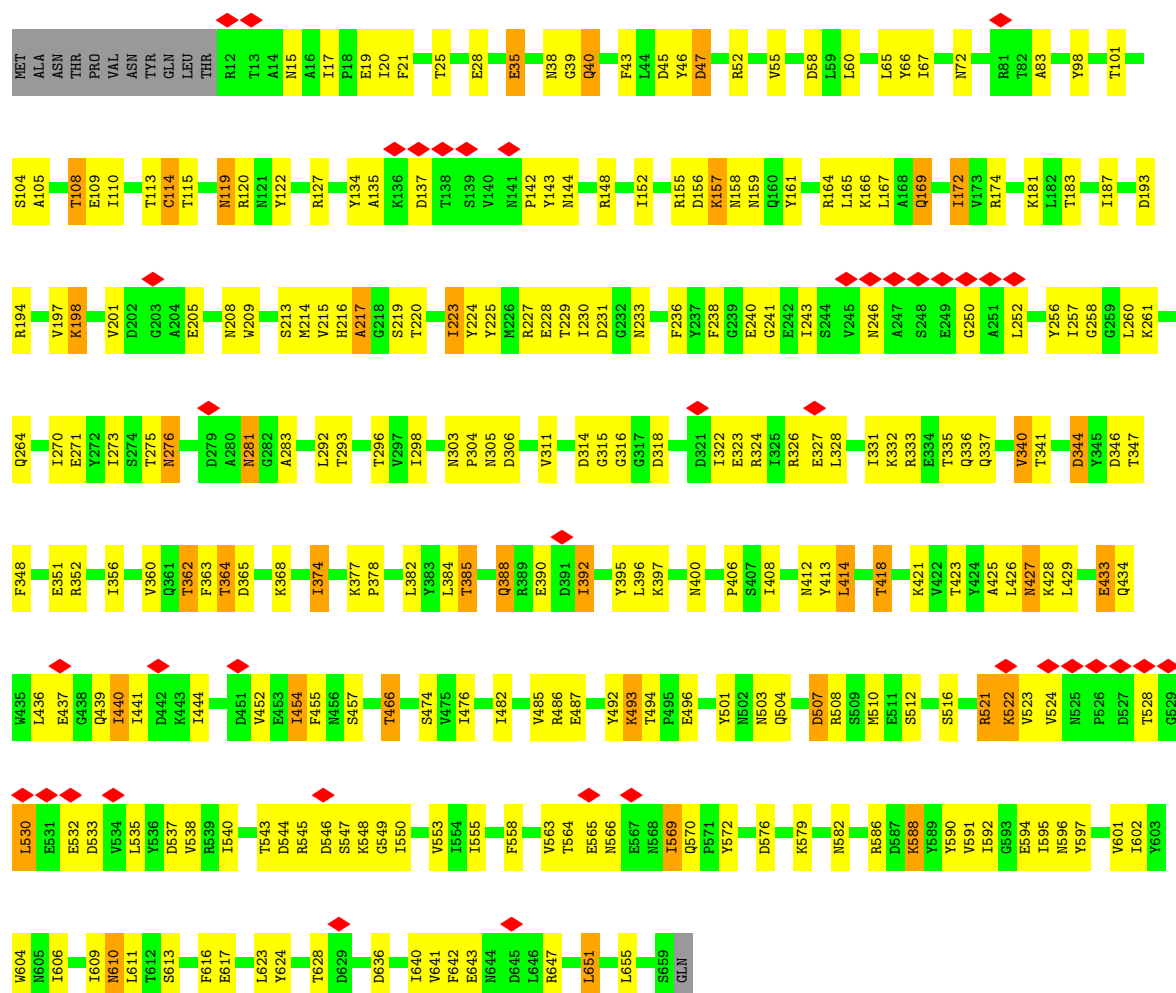


• Molecule 8: gp6, baseplate wedge protein

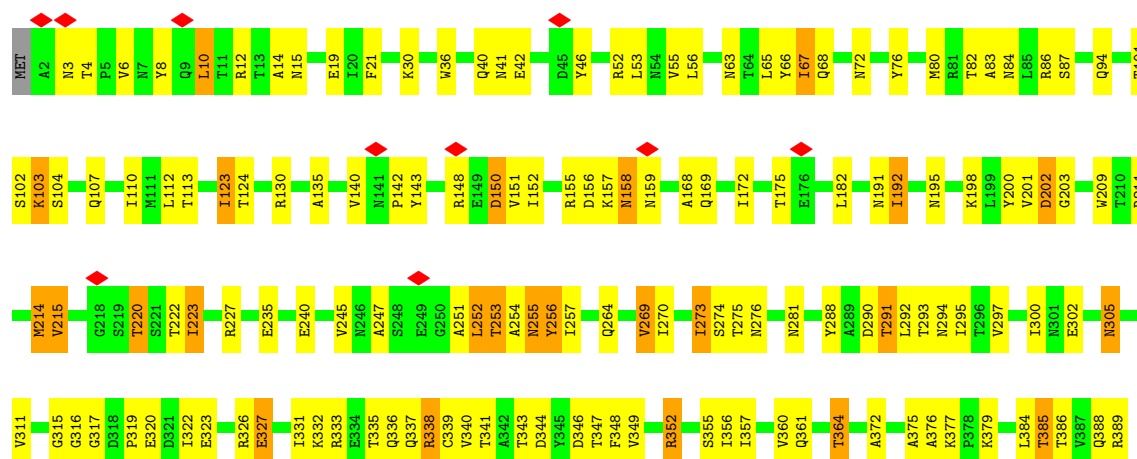


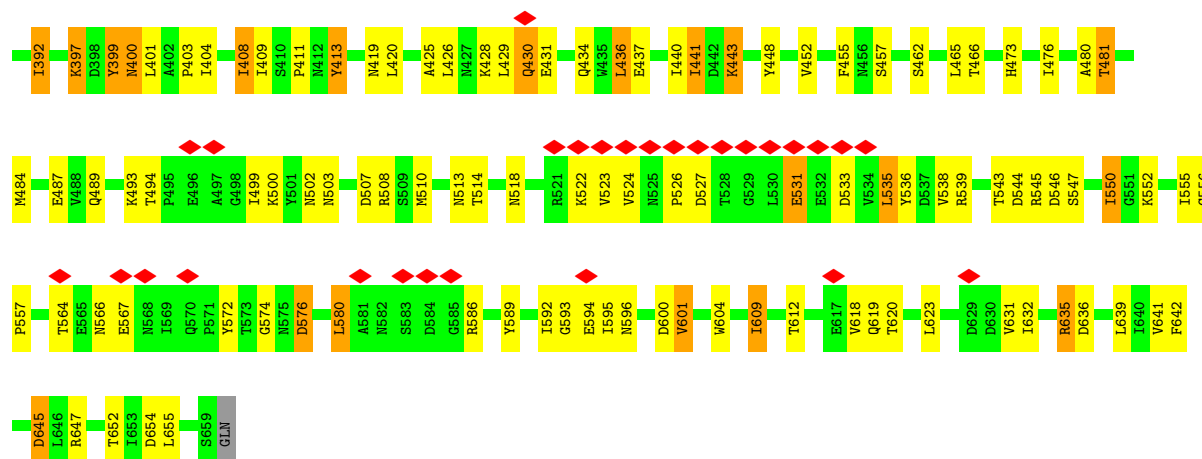


• Molecule 8: gp6, baseplate wedge protein

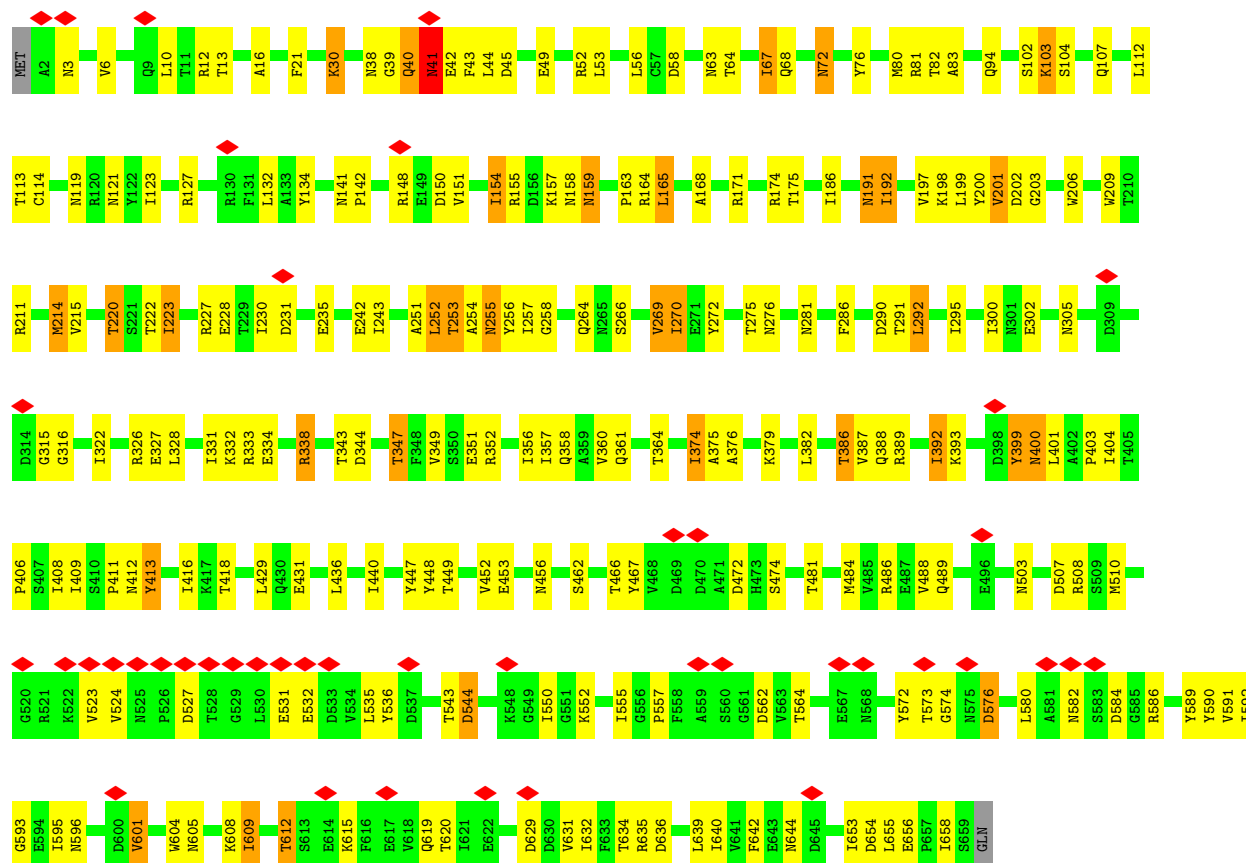


Chain eW:



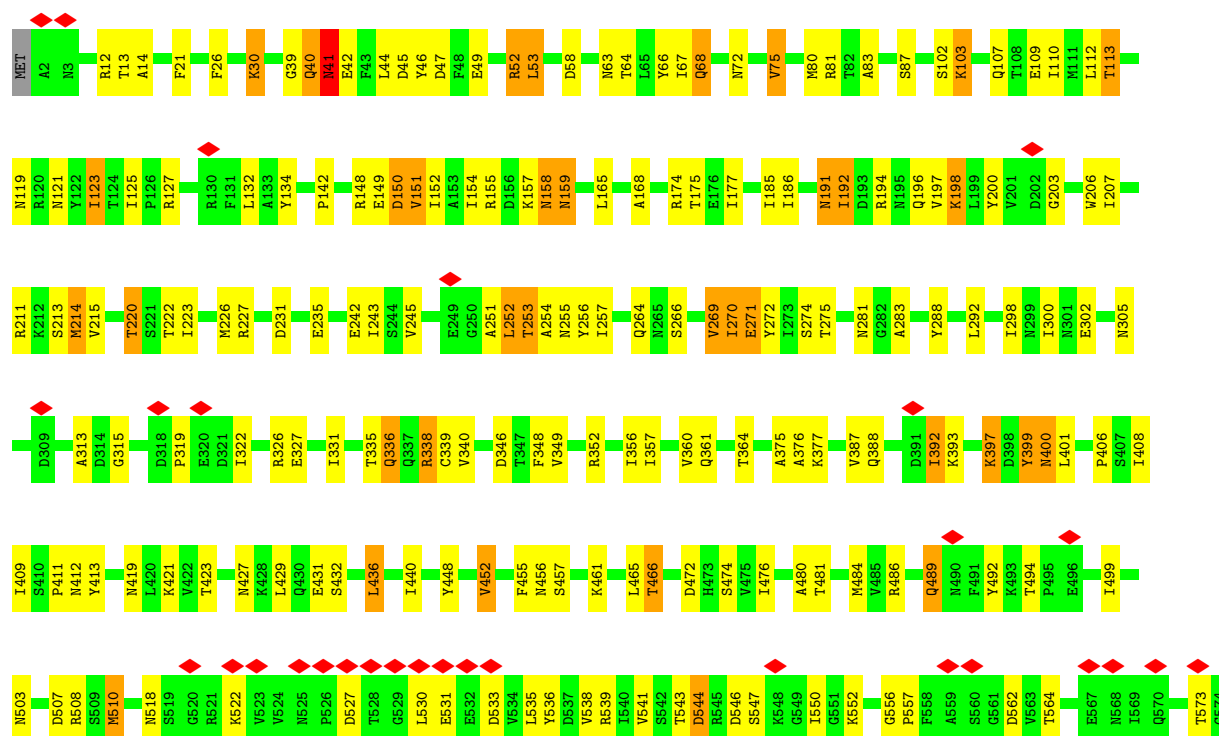


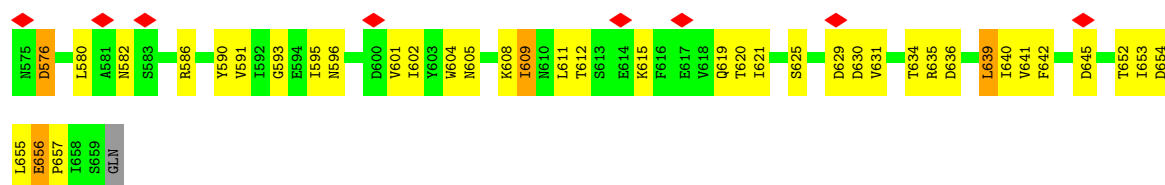
• Molecule 8: gp6, baseplate wedge protein



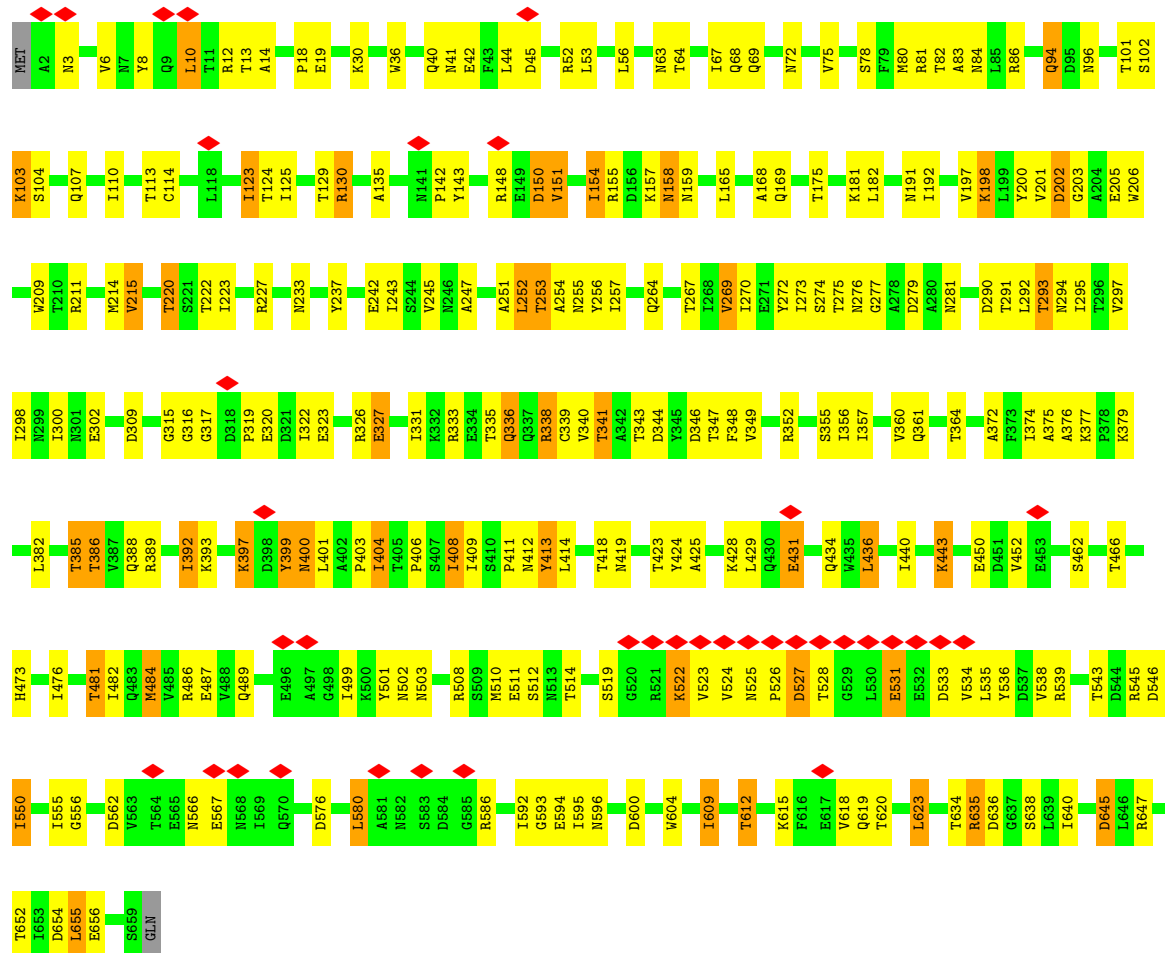
• Molecule 8: gp6, baseplate wedge protein



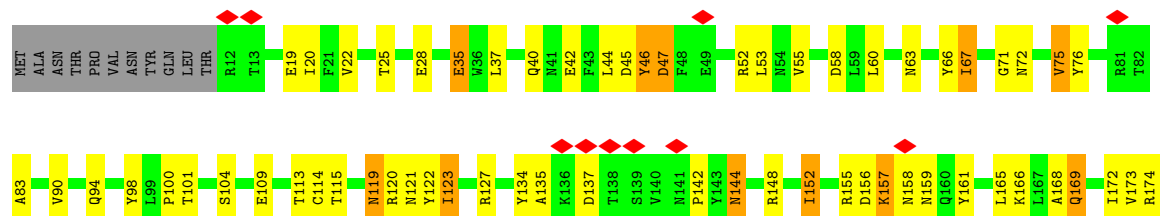


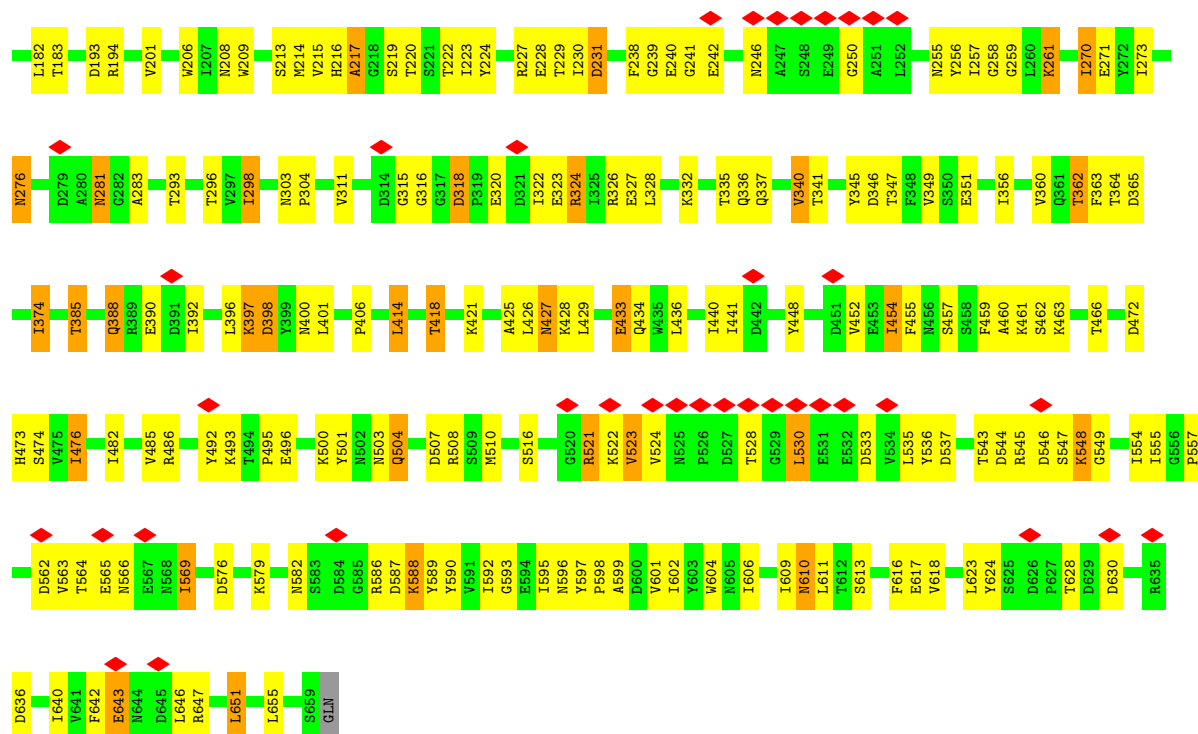


• Molecule 8: gp6, baseplate wedge protein

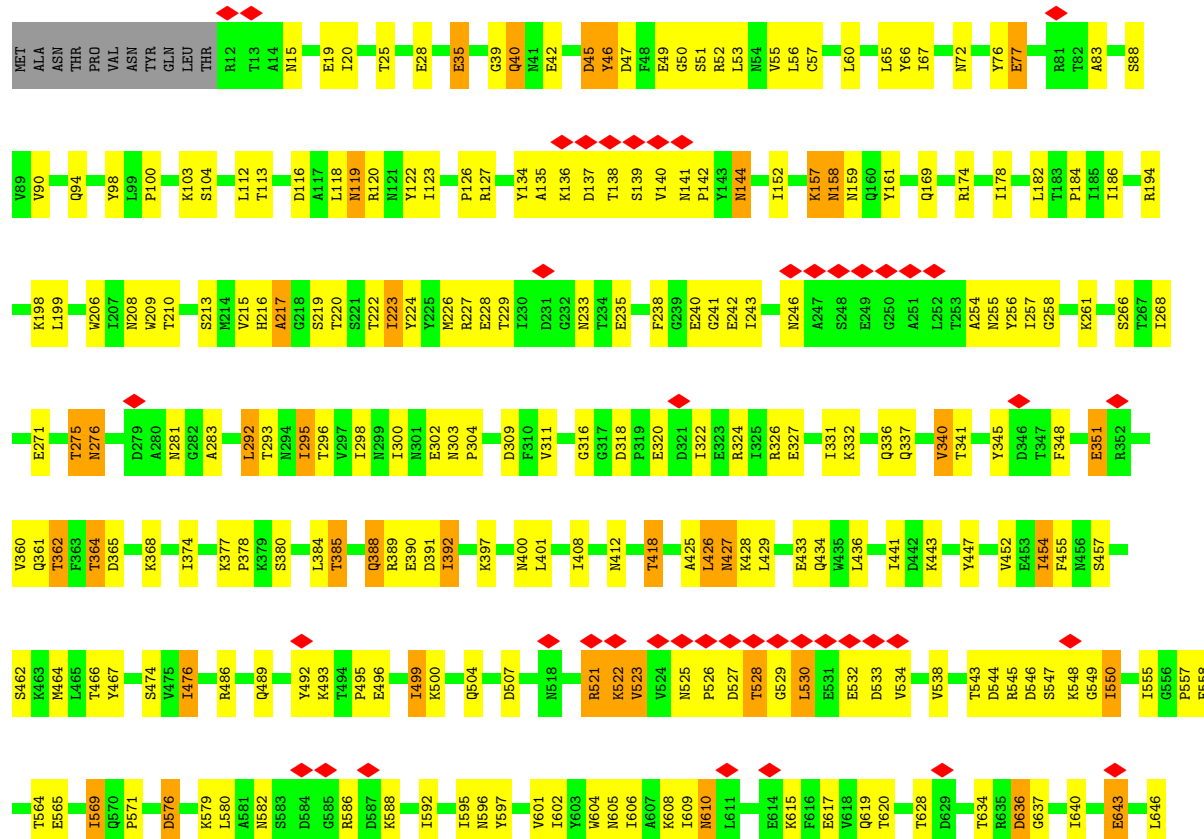


• Molecule 8: gp6, baseplate wedge protein



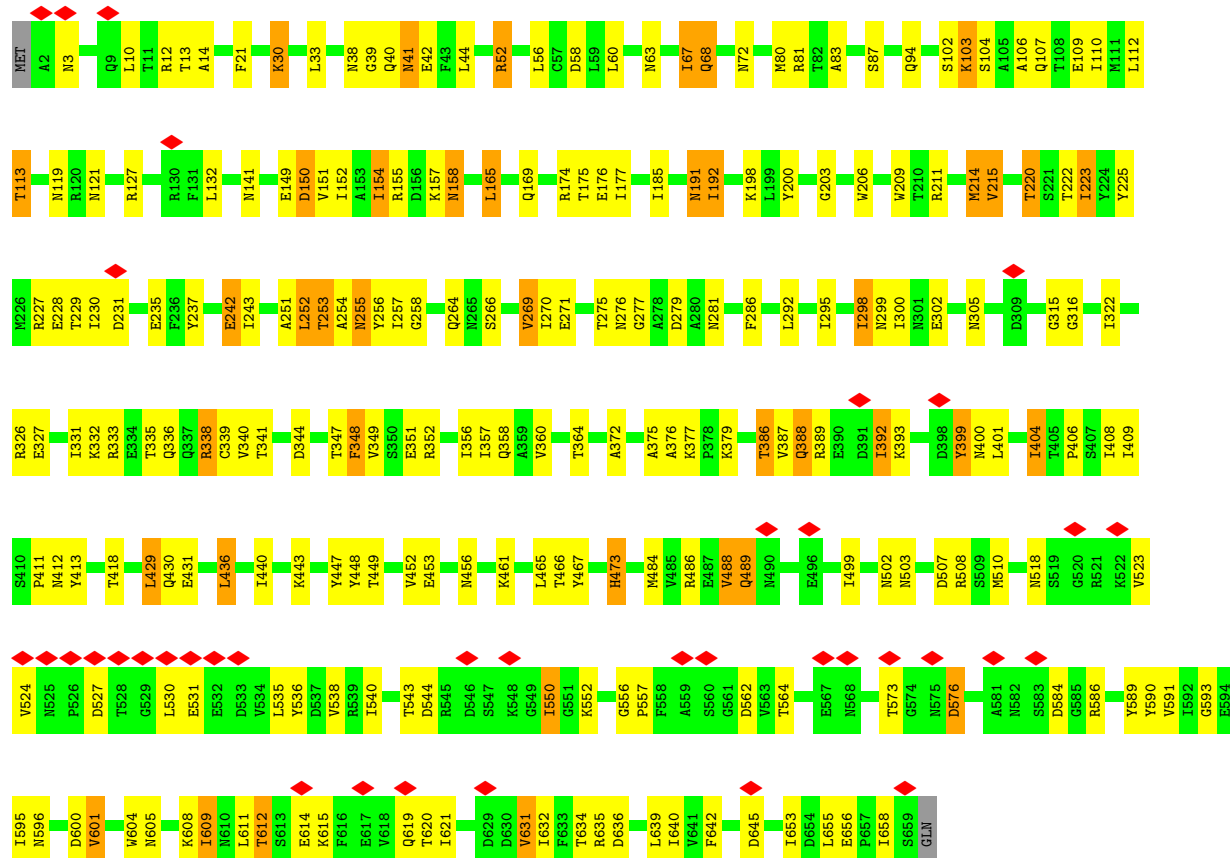


• Molecule 8: gp6, baseplate wedge protein

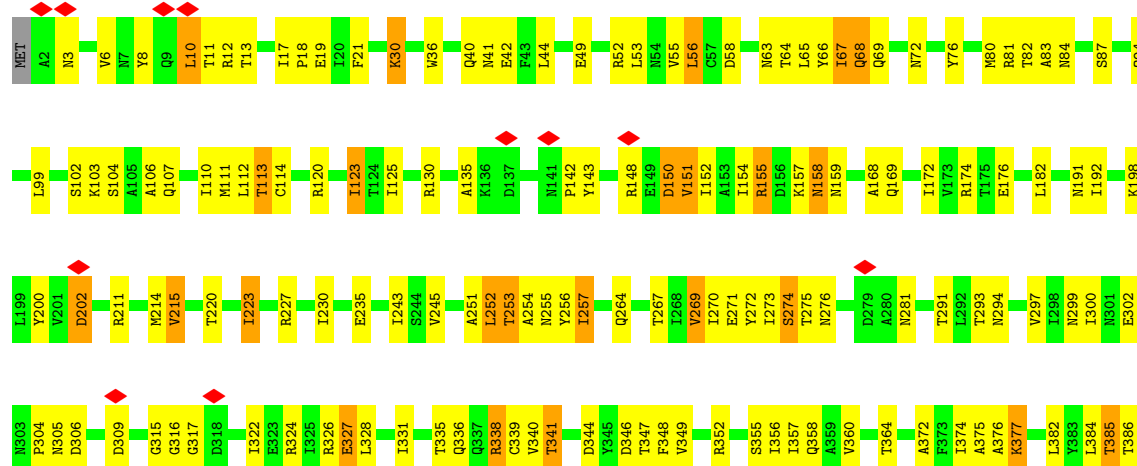


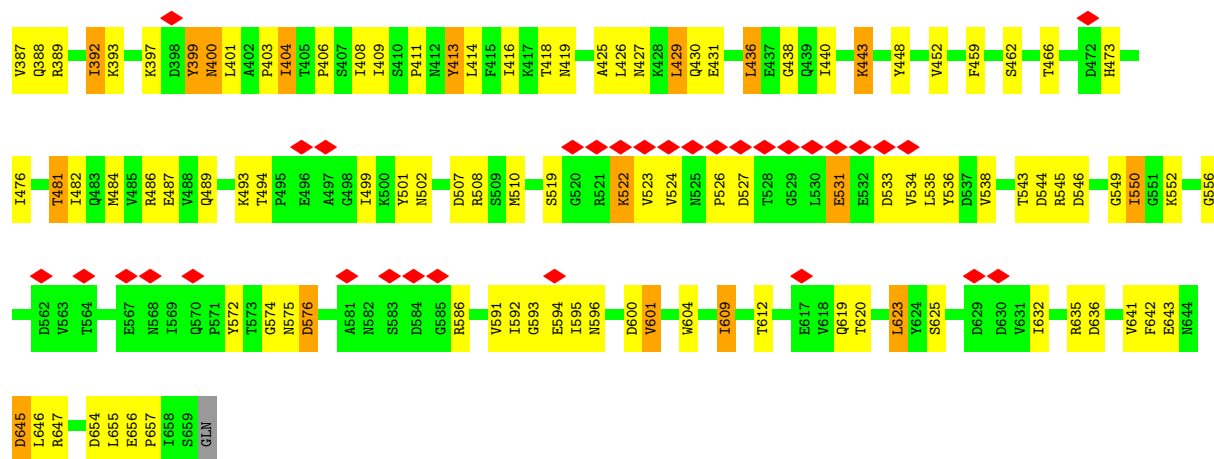


• Molecule 8: gp6, baseplate wedge protein

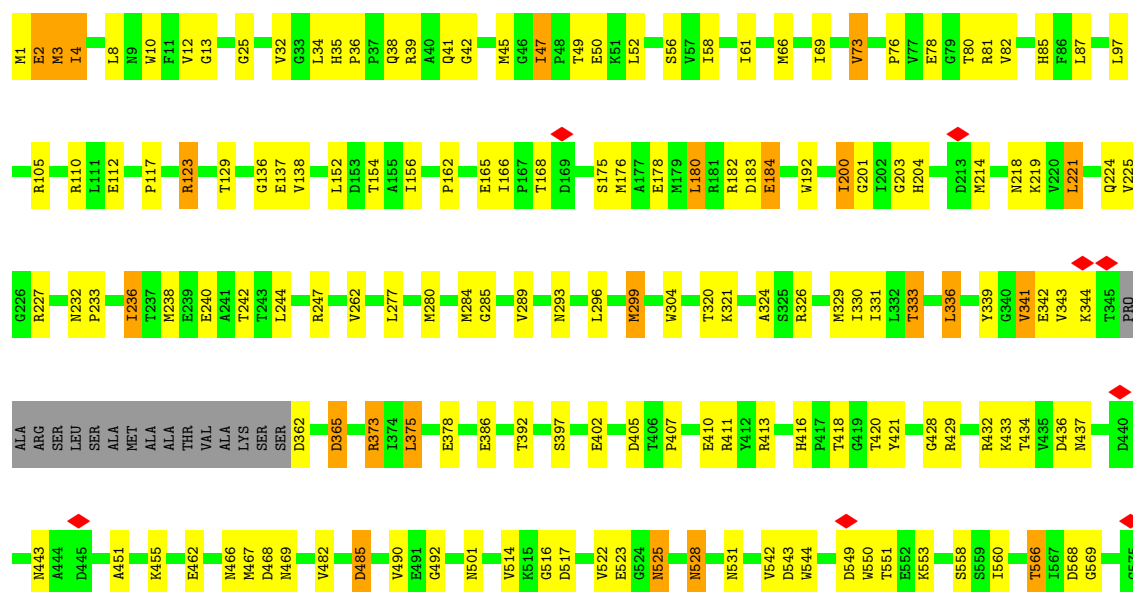


• Molecule 8: gp6, baseplate wedge protein

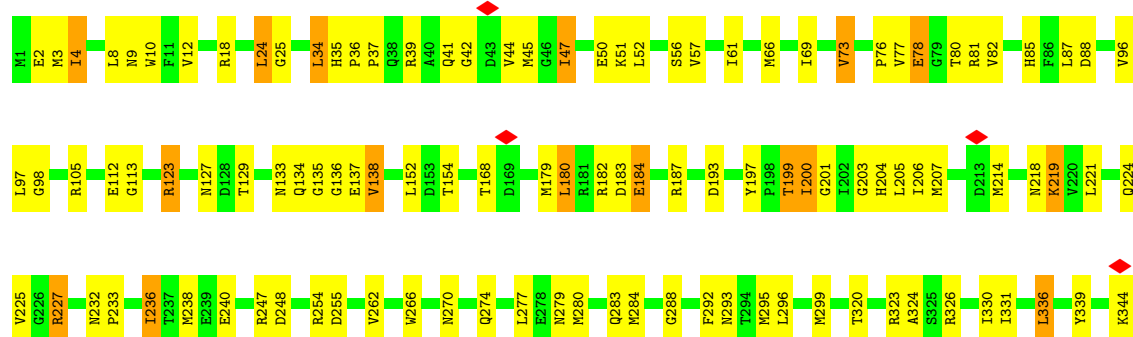


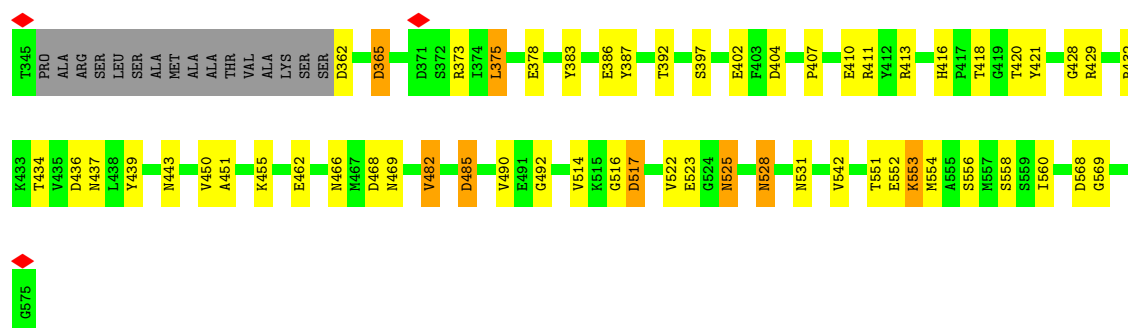


- Molecule 9: gp5, baseplate central spike protein

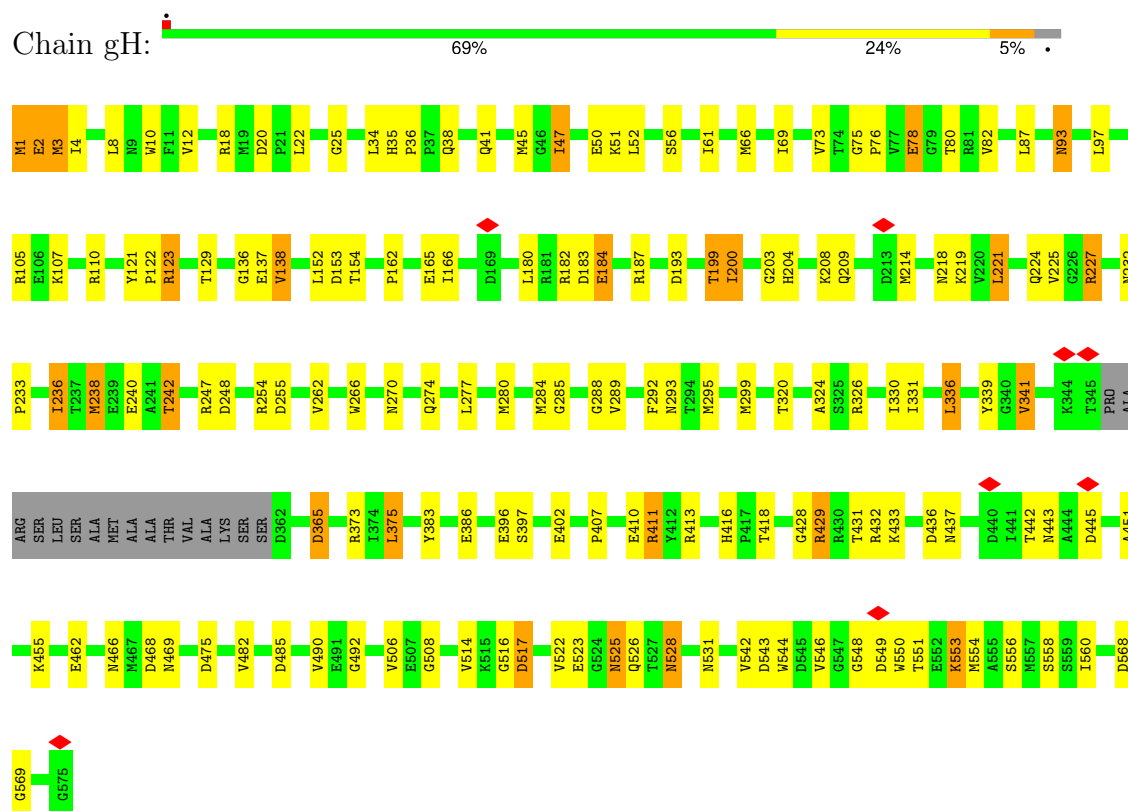


- Molecule 9: gp5, baseplate central spike protein

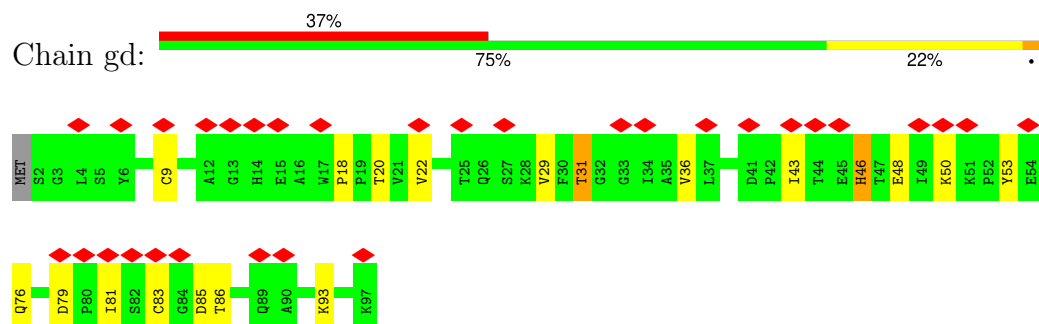




- Molecule 9: gp5, baseplate central spike protein

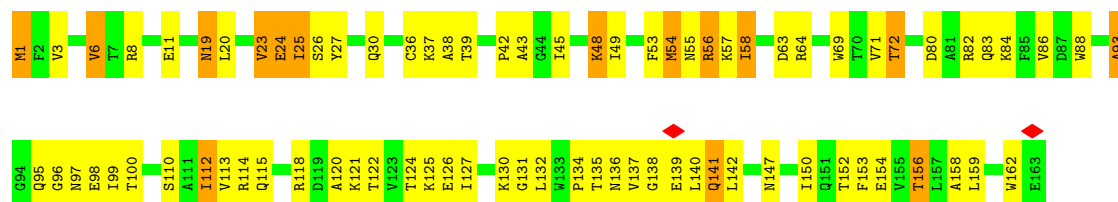


- Molecule 10: gp5.4, tip of the central spike

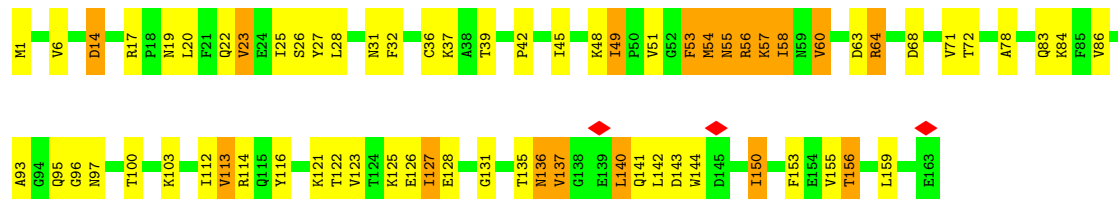


- Molecule 11: gp19, tail tube protein

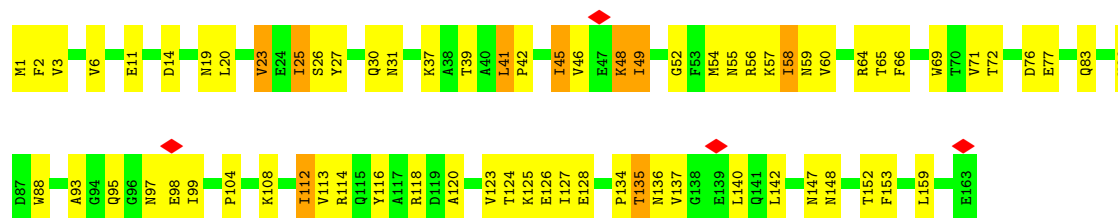




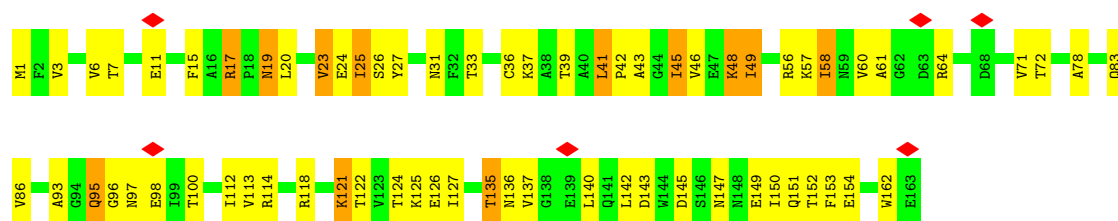
- Molecule 11: gp19, tail tube protein



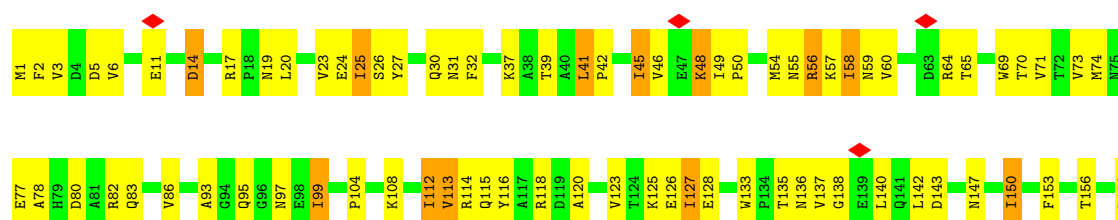
- Molecule 11: gp19, tail tube protein



- Molecule 11: gp19, tail tube protein



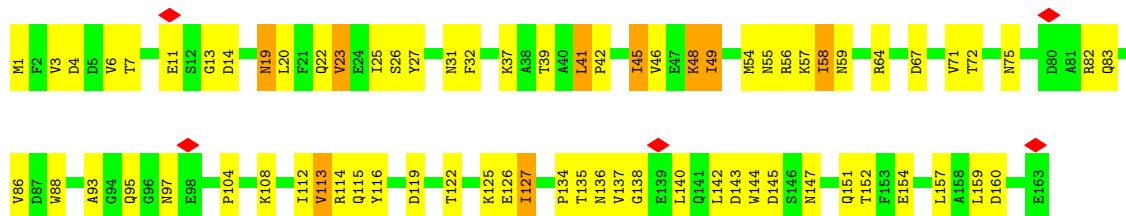
- Molecule 11: gp19, tail tube protein





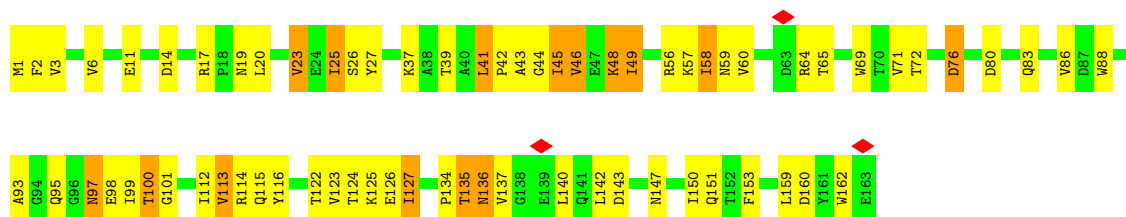
- Molecule 11: gp19, tail tube protein

Chain hL: 56% 39% 6%



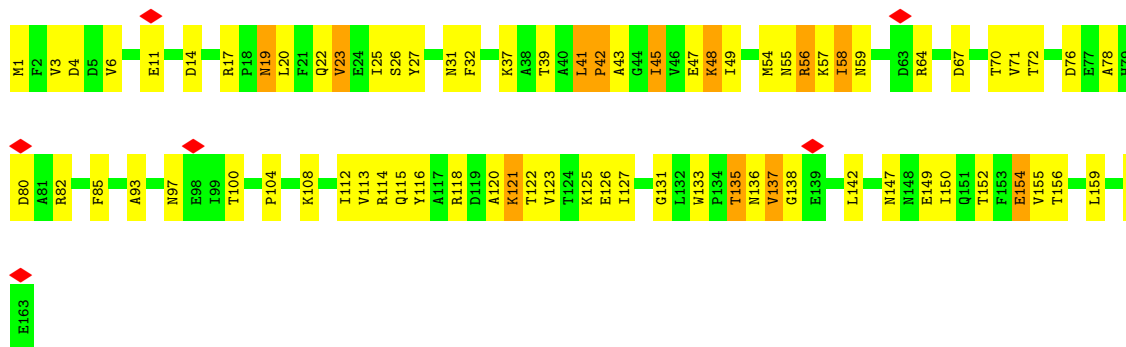
- Molecule 11: gp19, tail tube protein

Chain hM: 57% 34% 9%



- Molecule 11: gp19, tail tube protein

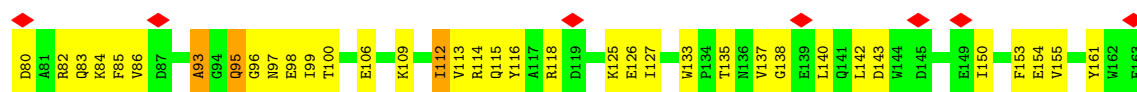
Chain hX: 54% 39% 7%



- Molecule 11: gp19, tail tube protein

Chain he: 7% 56% 38% 6%

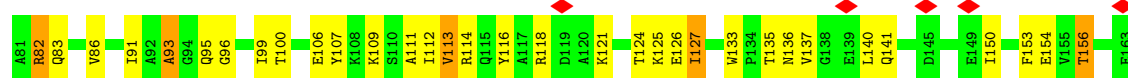
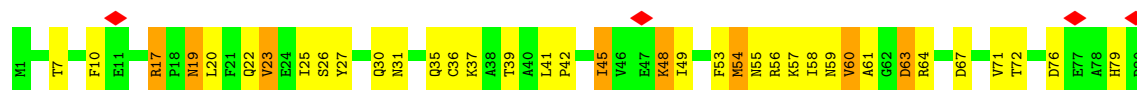




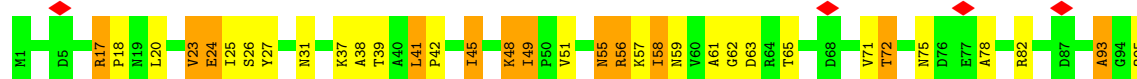
- Molecule 11: gp19, tail tube protein



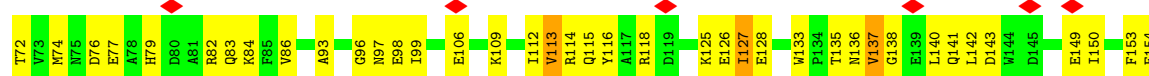
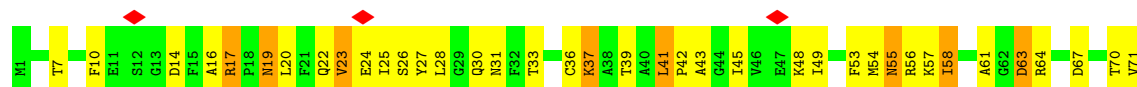
- Molecule 11: gp19, tail tube protein



- Molecule 11: gp19, tail tube protein

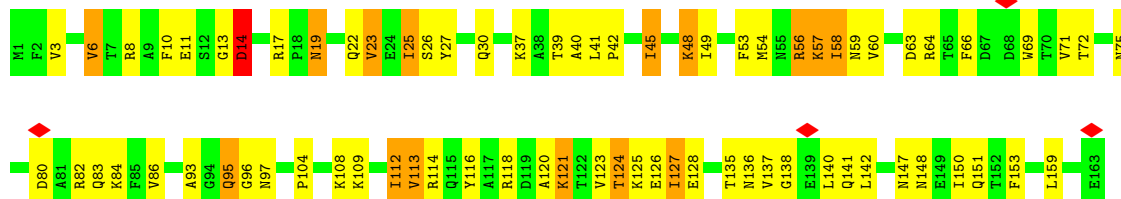


- Molecule 11: gp19, tail tube protein

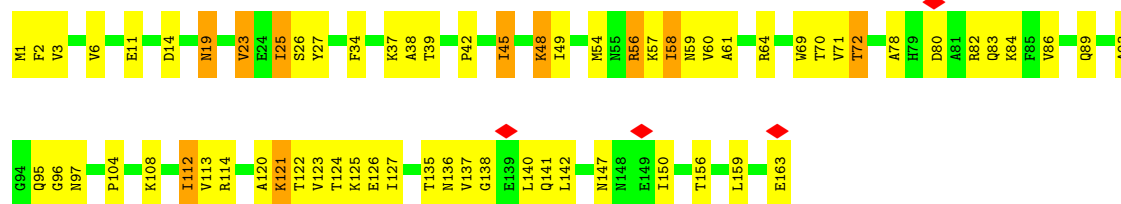




- Molecule 11: gp19, tail tube protein

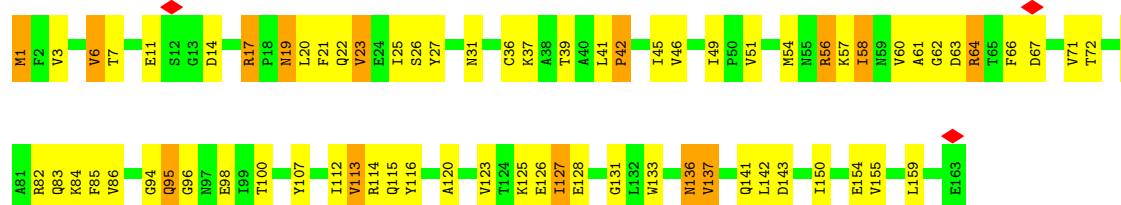


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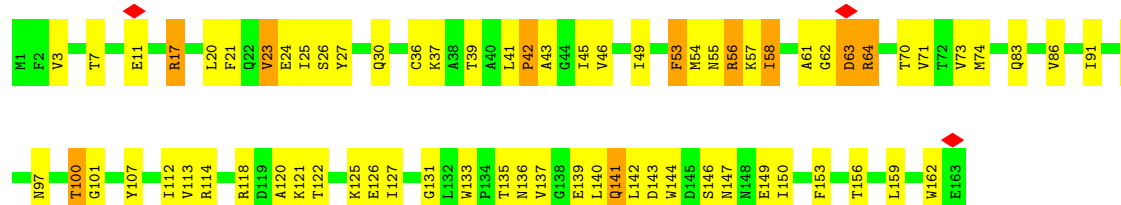
• Molecule 11: gp19, tail tube protein

Chain ho: 



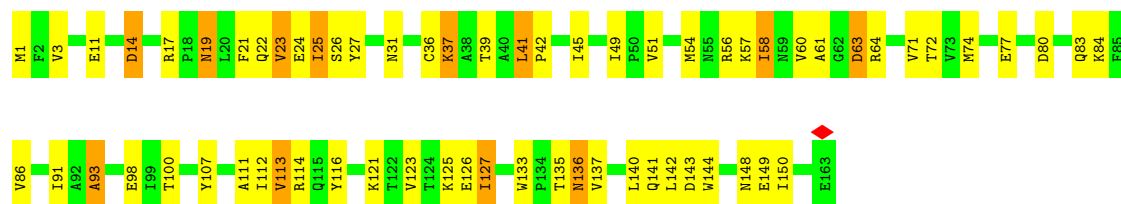
• Molecule 11: gp19, tail tube protein

Chain hp: 



• Molecule 11: gp19, tail tube protein

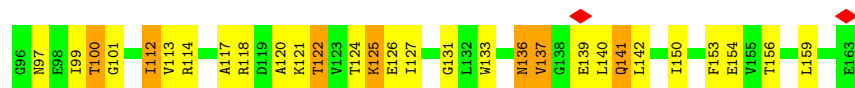
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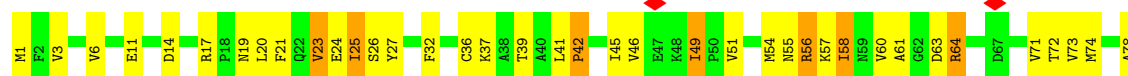
• Molecule 11: gp19, tail tube protein

Chain hr: 

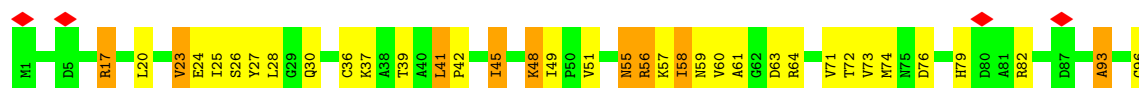




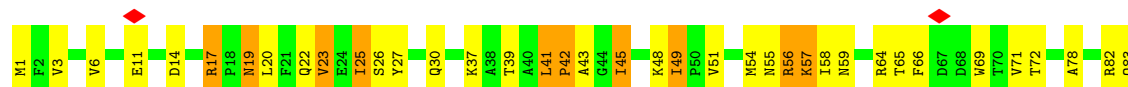
- Molecule 11: gp19, tail tube protein



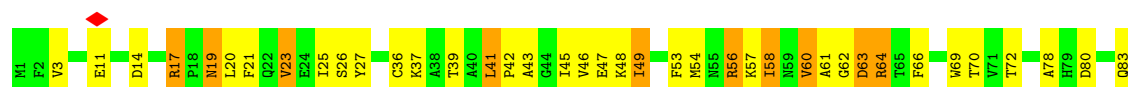
- Molecule 11: gp19, tail tube protein



- Molecule 11: gp19, tail tube protein

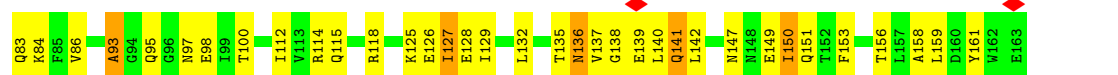
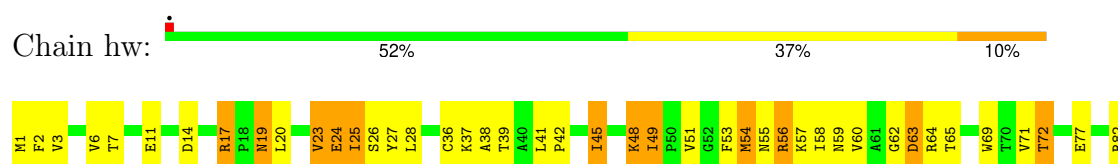


- Molecule 11: gp19, tail tube protein

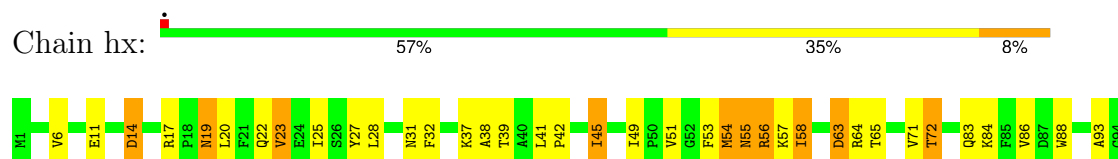


- Molecule 11: gp19, tail tube protein

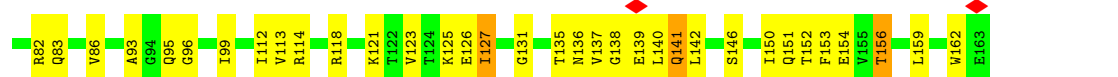
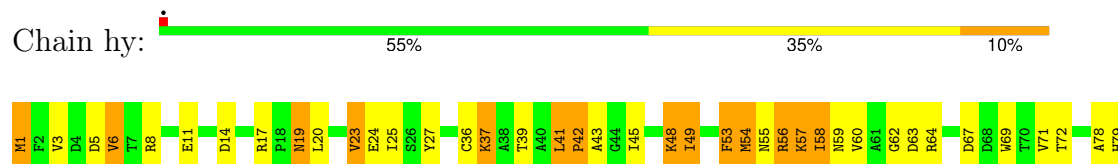




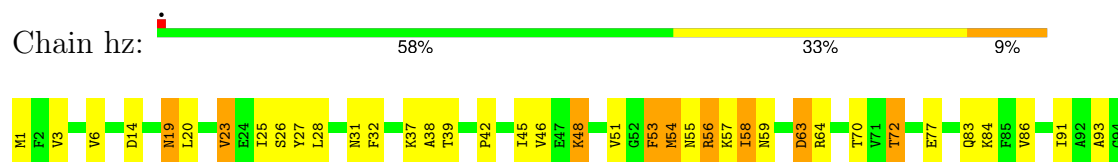
- Molecule 11: gp19, tail tube protein



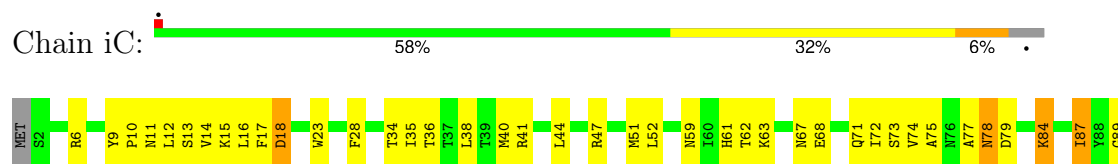
- Molecule 11: gp19, tail tube protein

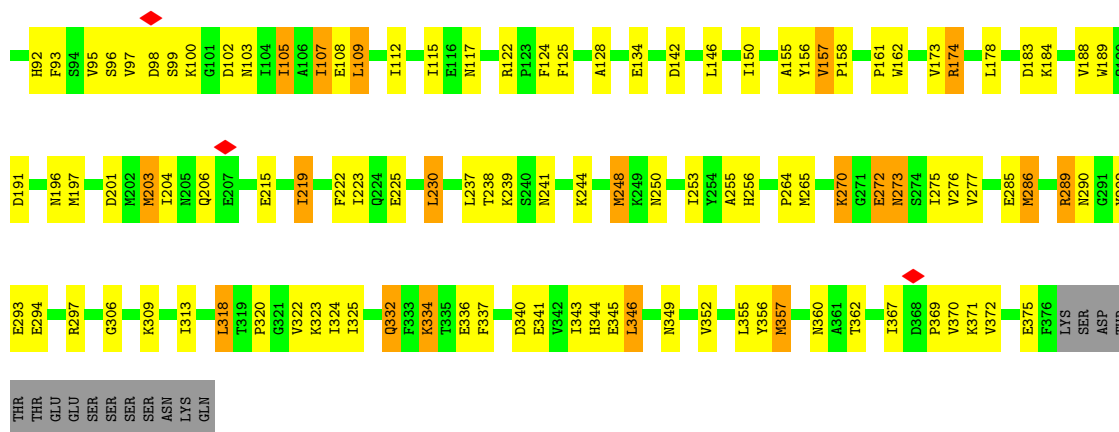


- Molecule 11: gp19, tail tube protein

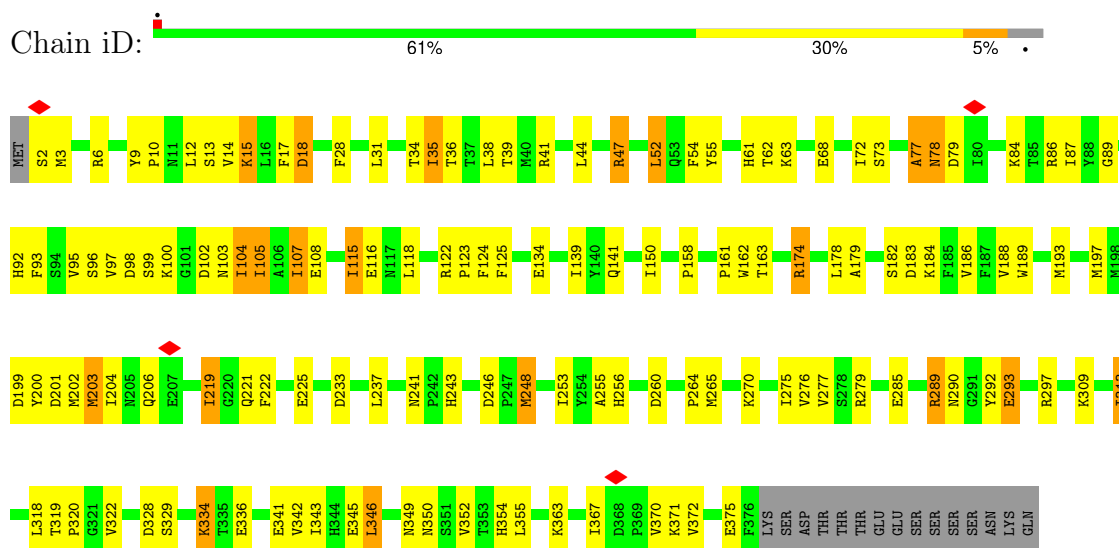


- Molecule 12: gp27, baseplate hub protein

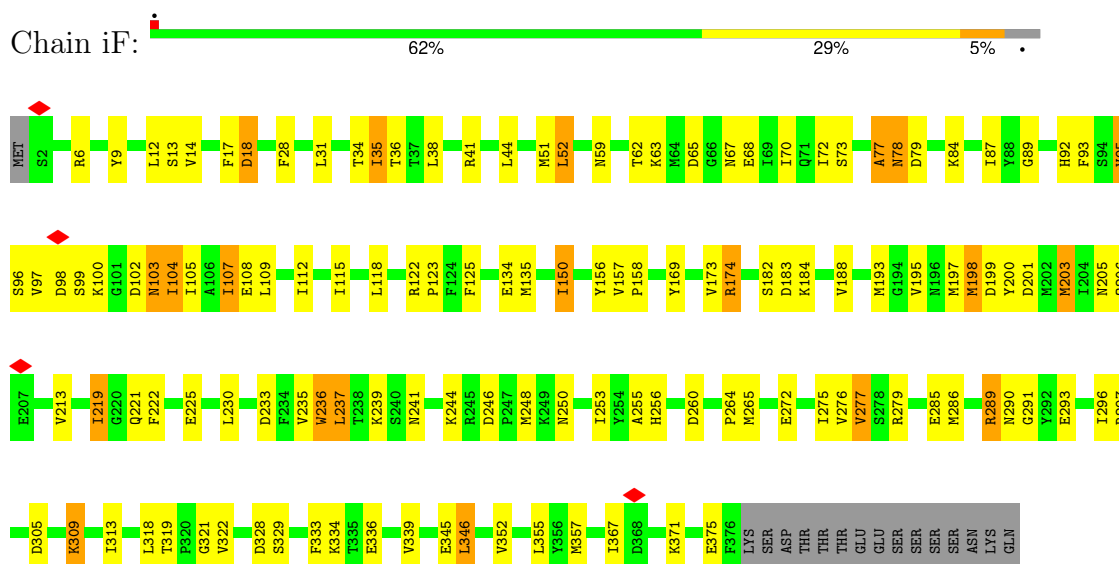




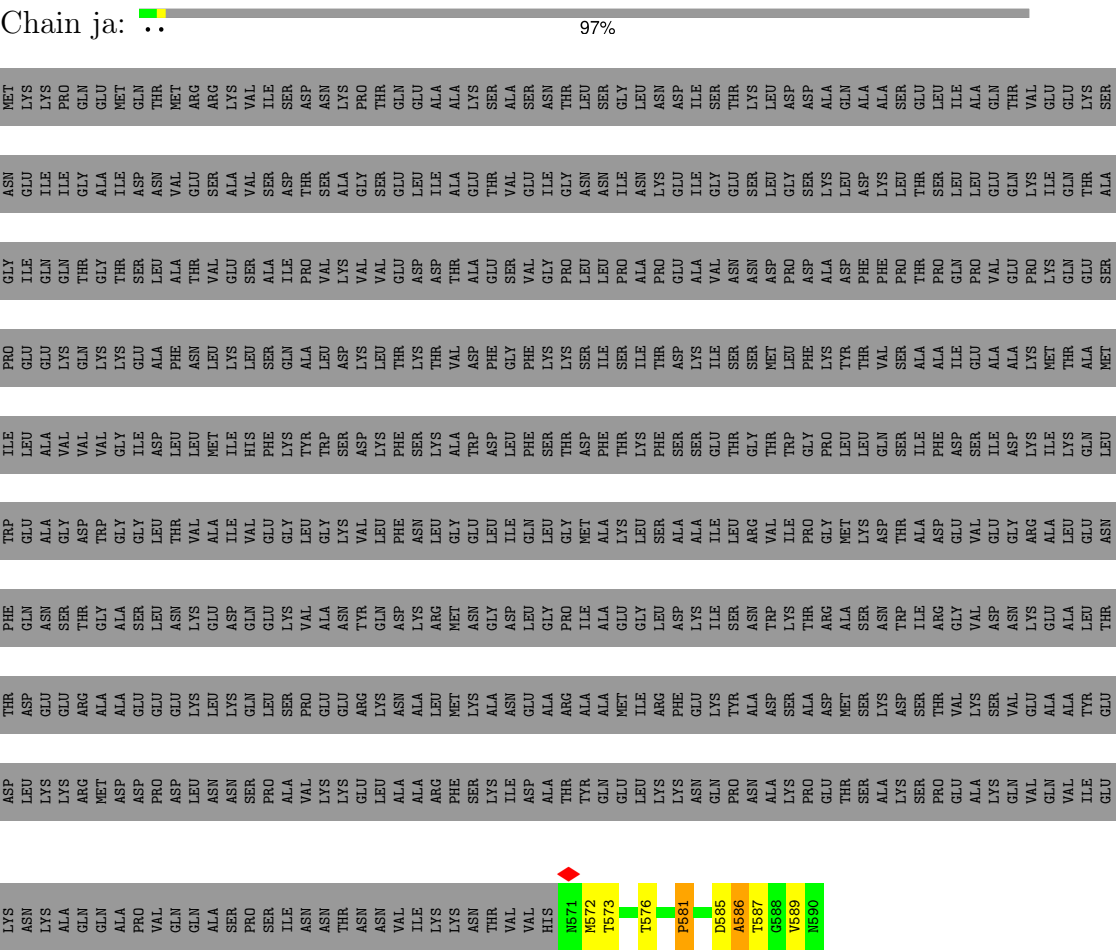
• Molecule 12: gp27, baseplate hub protein



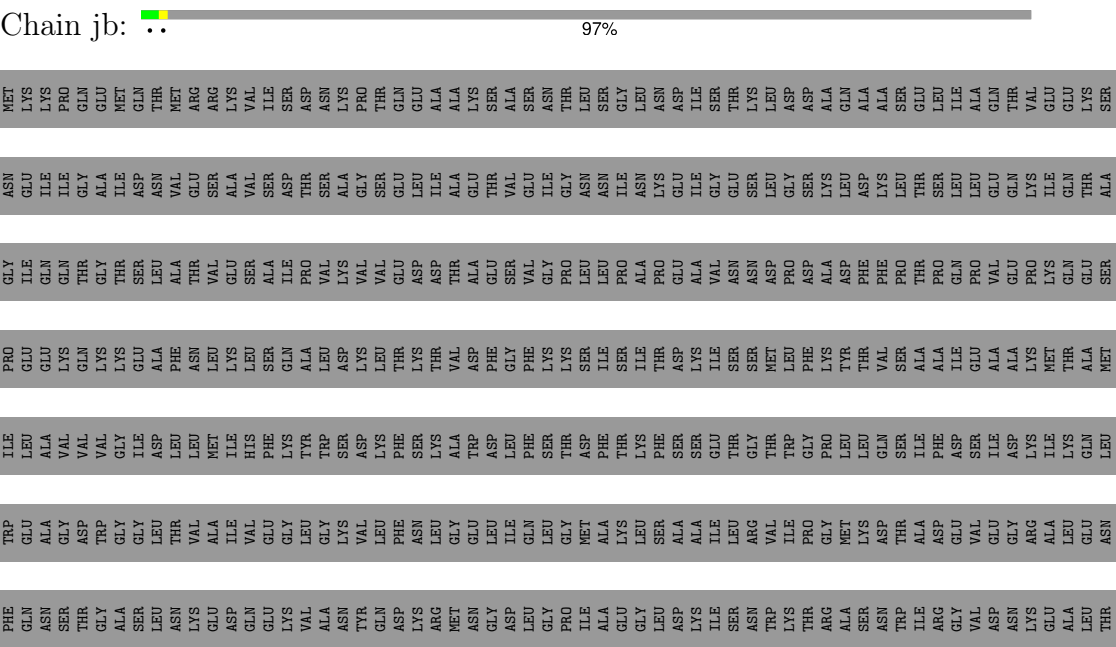
• Molecule 12: gp27, baseplate hub protein

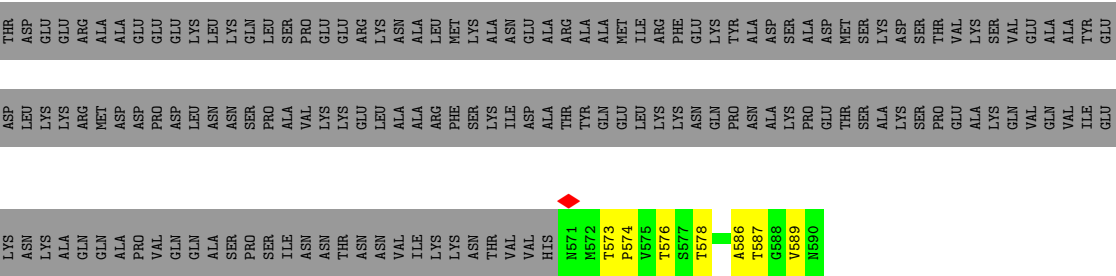


● Molecule 13: gp29, tape measure protein

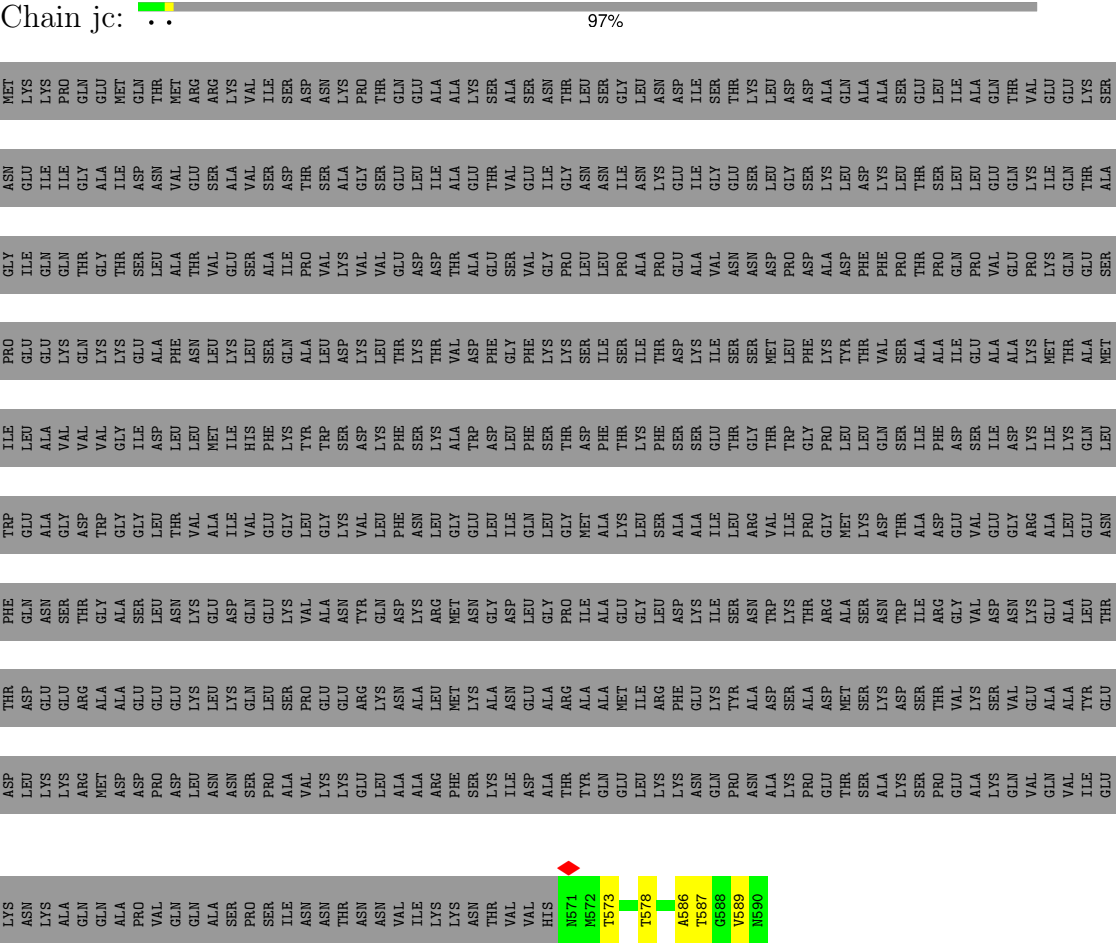


● Molecule 13: gp29, tape measure protein

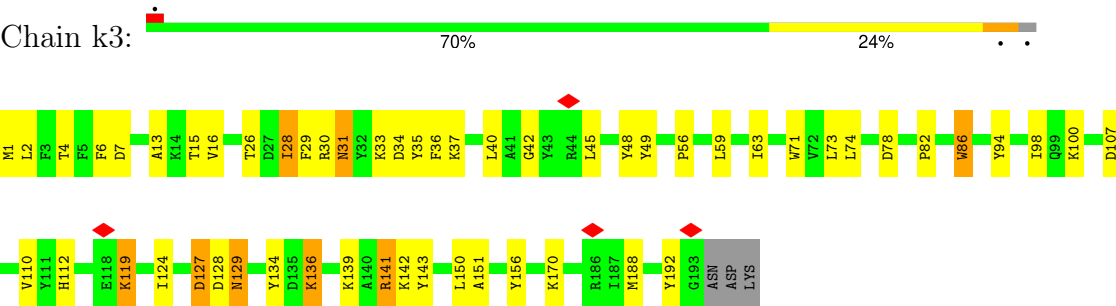




• Molecule 13: gp29, tape measure protein

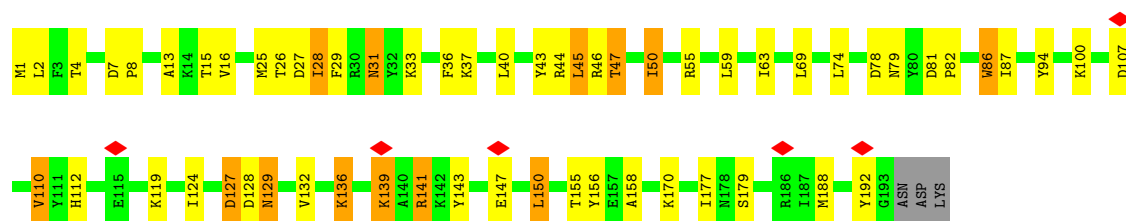


• Molecule 14: gp53, baseplate wedge protein



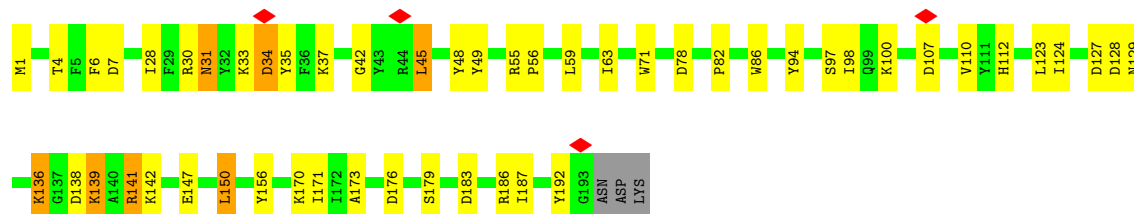
• Molecule 14: gp53, baseplate wedge protein

Chain k4:  68% 24% 7% .



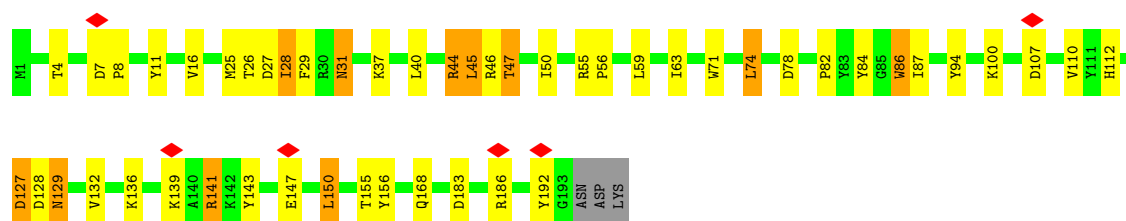
- Molecule 14: gp53, baseplate wedge protein

Chain k7:  72% 23% . .



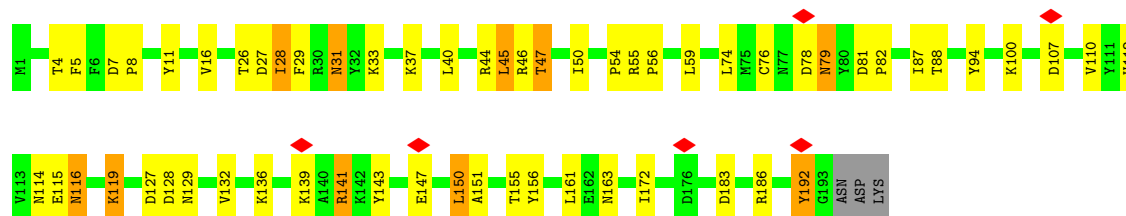
- Molecule 14: gp53, baseplate wedge protein

Chain k8:  73% 20% 6% .



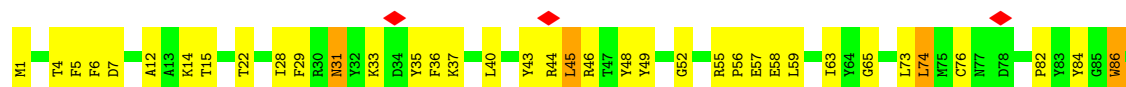
- Molecule 14: gp53, baseplate wedge protein

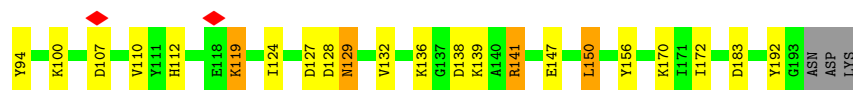
Chain kV:  68% 25% 5% .



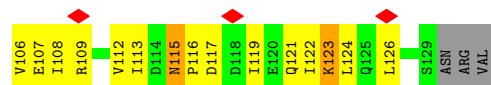
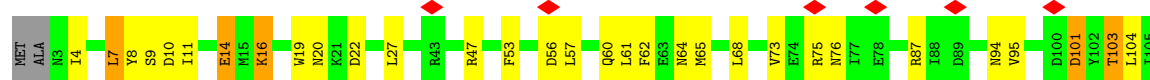
- Molecule 14: gp53, baseplate wedge protein

Chain IV:  68% 26% . .

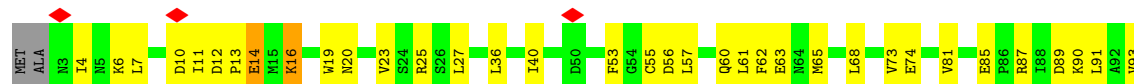




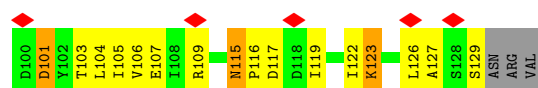
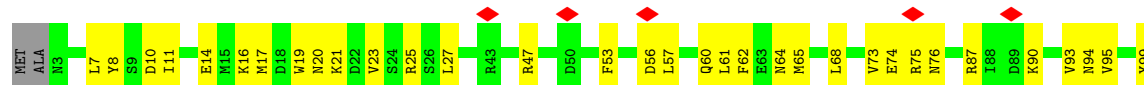
- Molecule 15: gp25, baseplate wedge protein



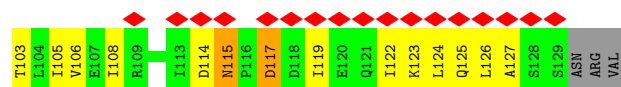
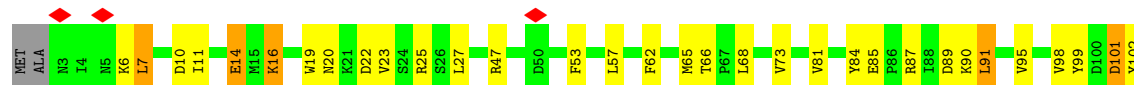
- Molecule 15: gp25, baseplate wedge protein



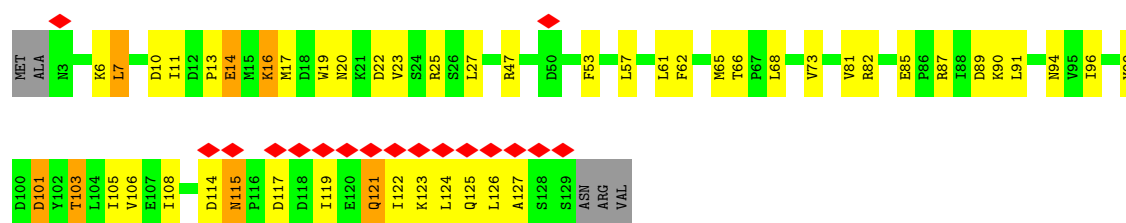
- Molecule 15: gp25, baseplate wedge protein



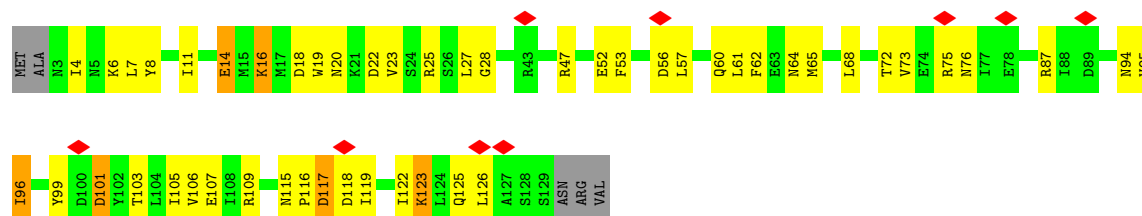
- Molecule 15: gp25, baseplate wedge protein



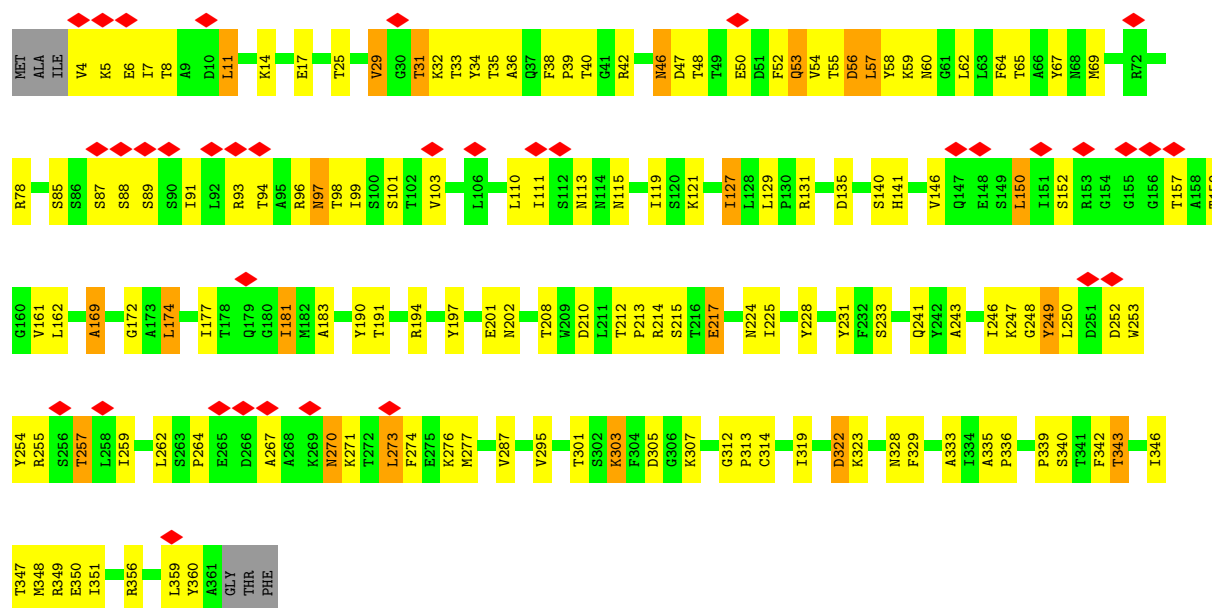
- Molecule 15: gp25, baseplate wedge protein



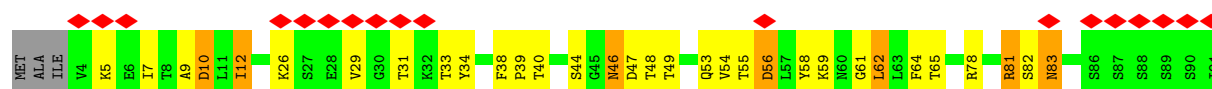
- Molecule 15: gp25, baseplate wedge protein

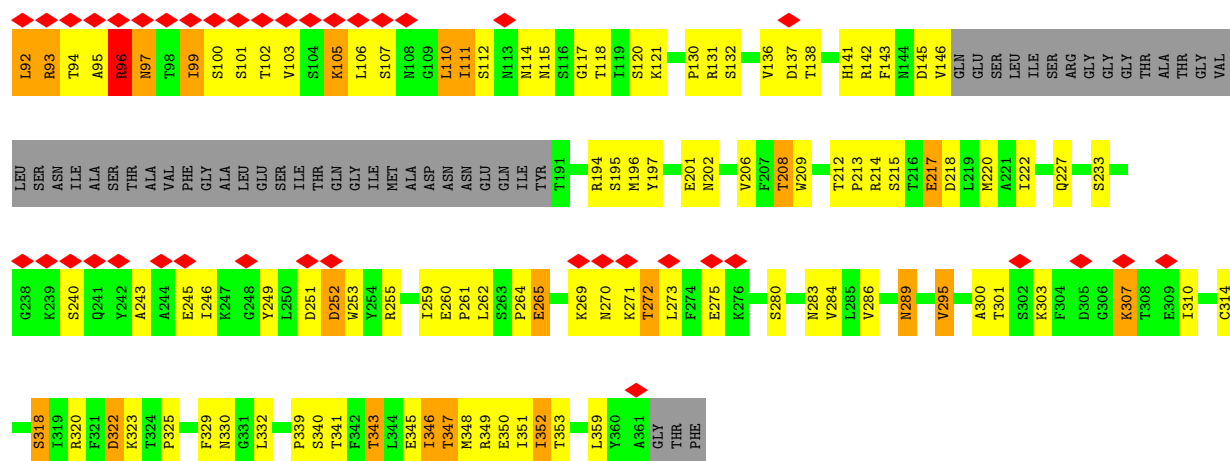


- Molecule 16: gp48, baseplate protein

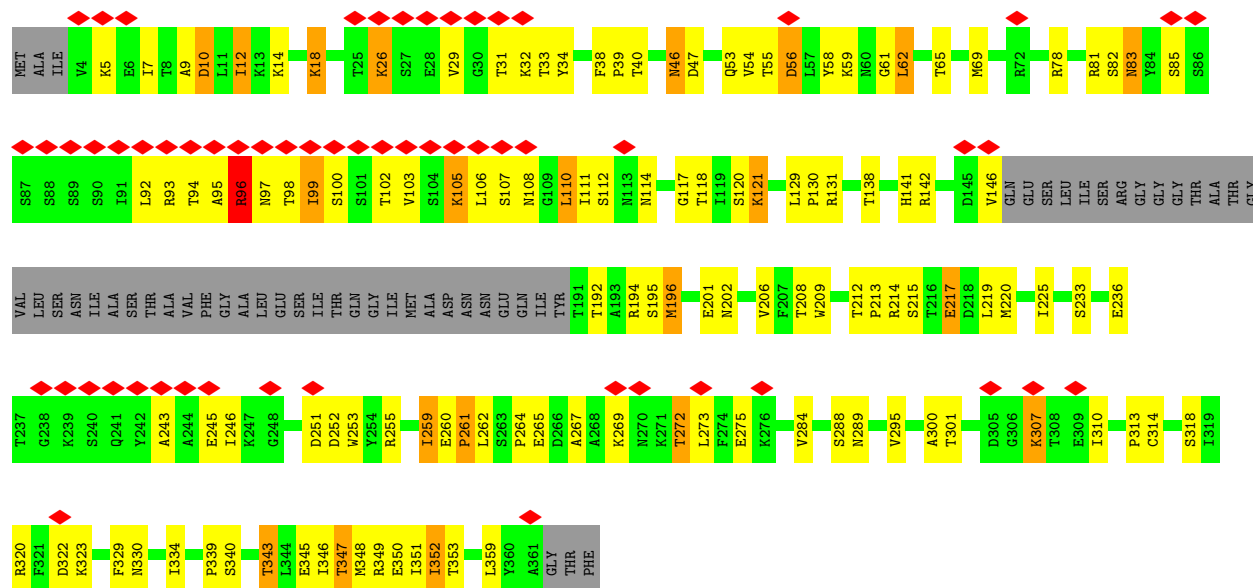


- Molecule 16: gp48, baseplate protein

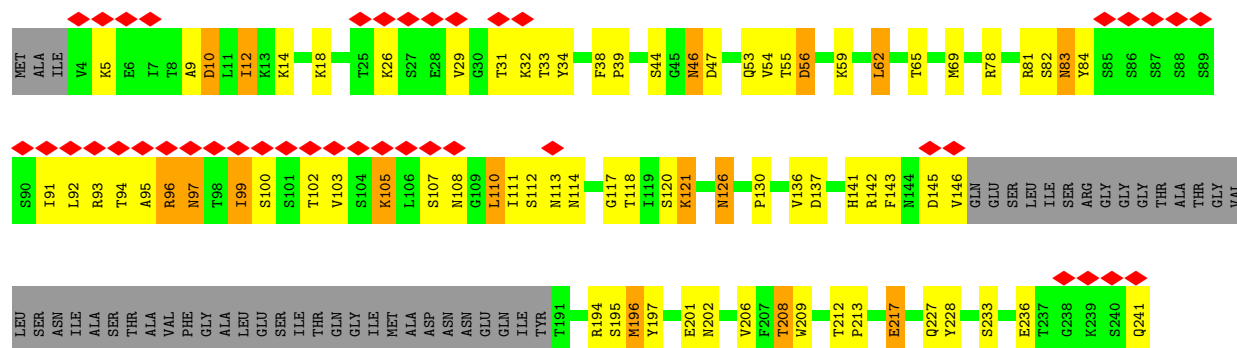


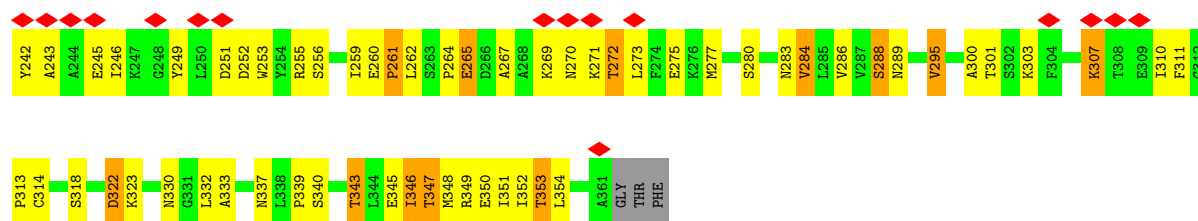


• Molecule 16: gp48, baseplate protein

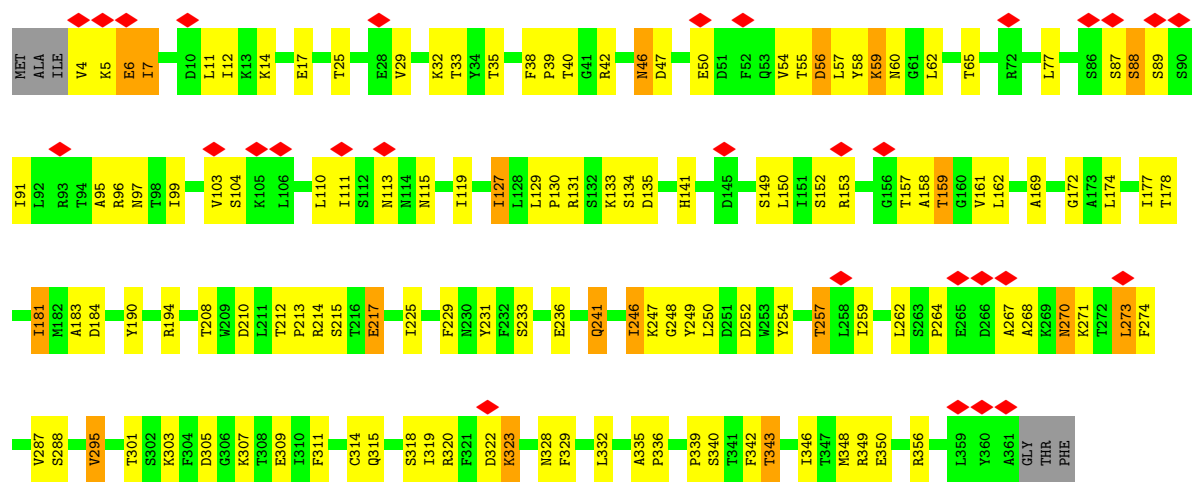


• Molecule 16: gp48, baseplate protein

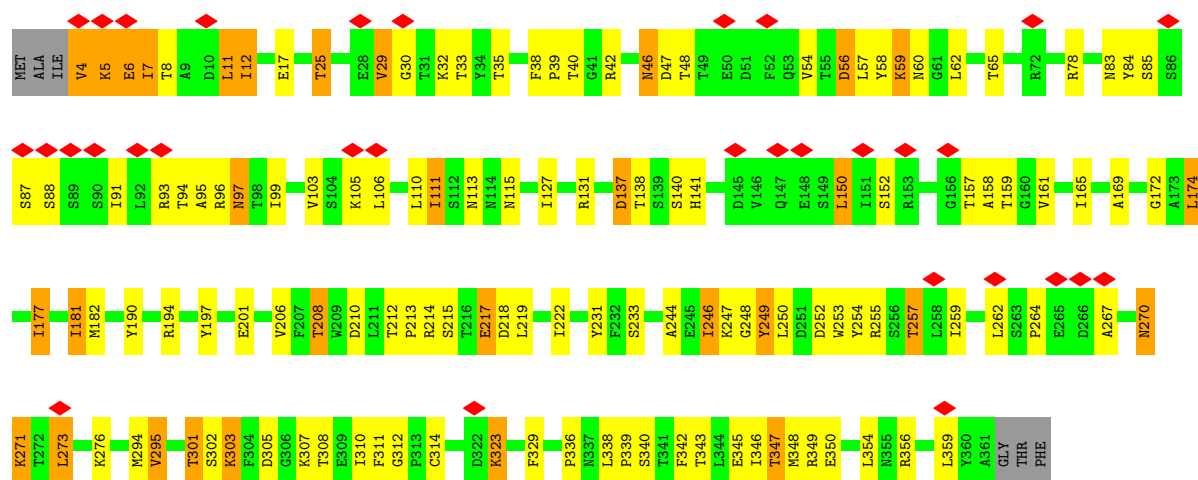




• Molecule 16: gp48, baseplate protein

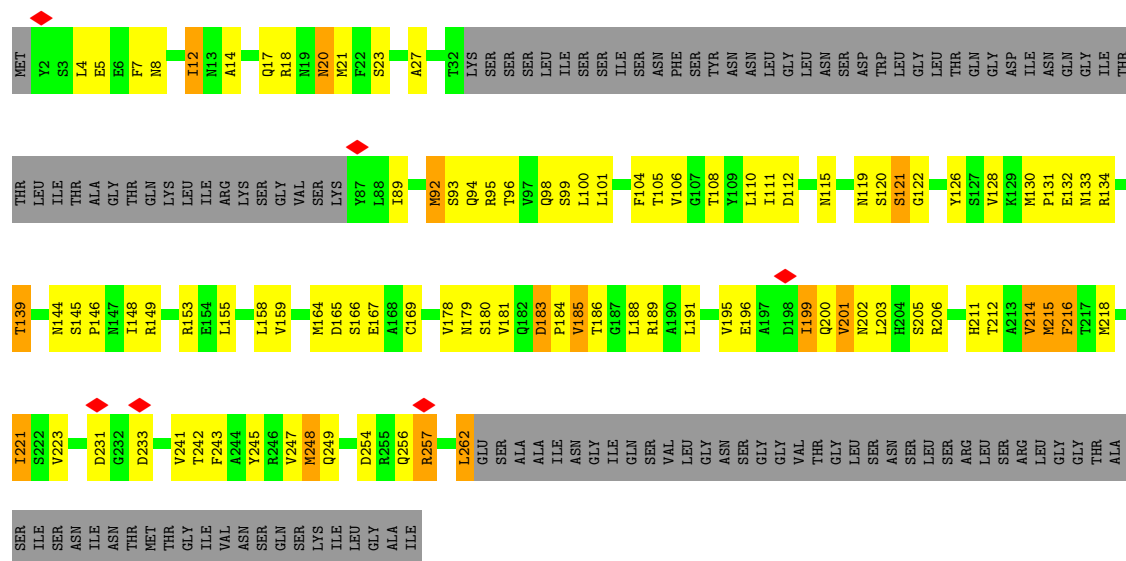


• Molecule 16: gp48, baseplate protein

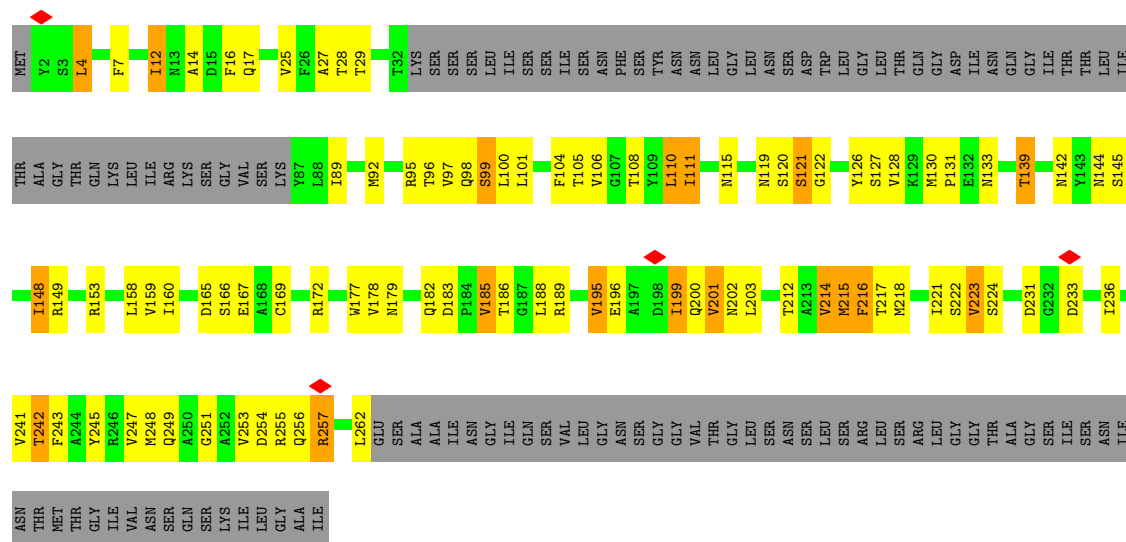


• Molecule 17: gp54, baseplate protein

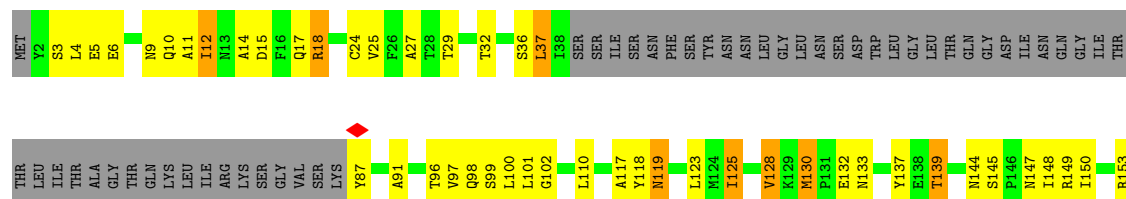


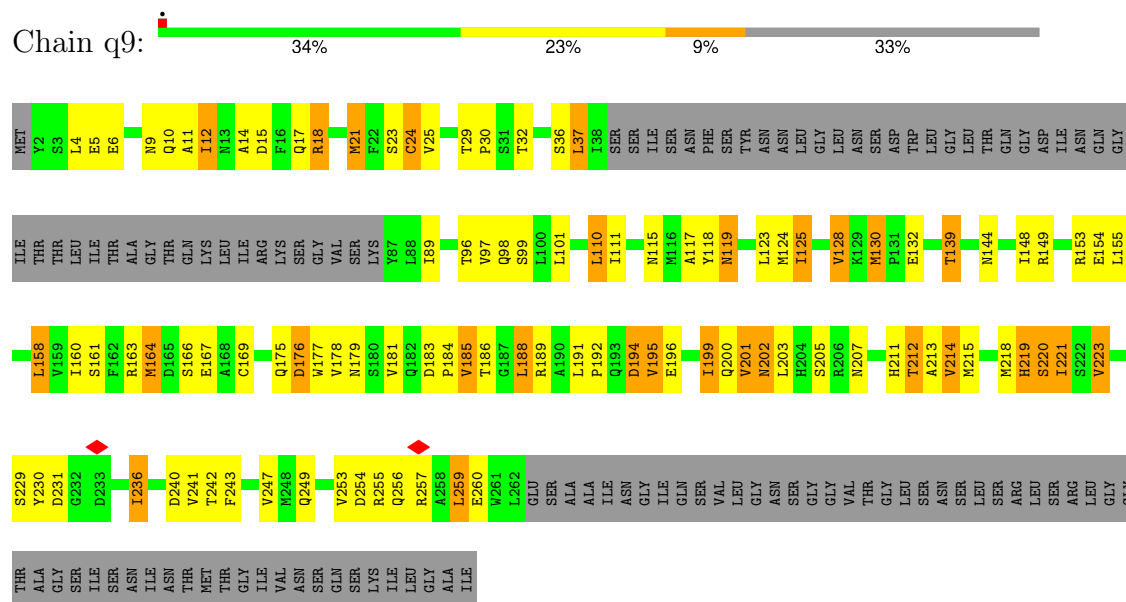


• Molecule 17: gp54, baseplate protein

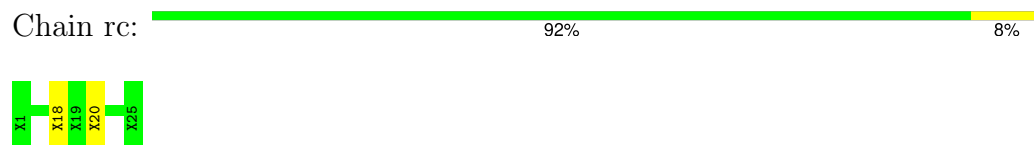


• Molecule 17: gp54, baseplate protein

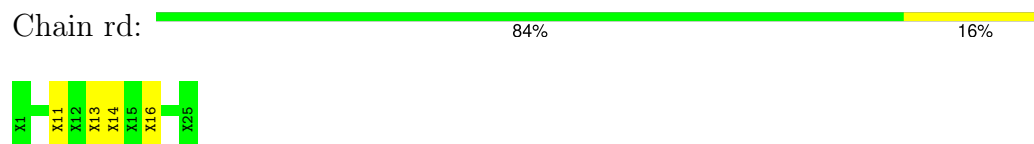




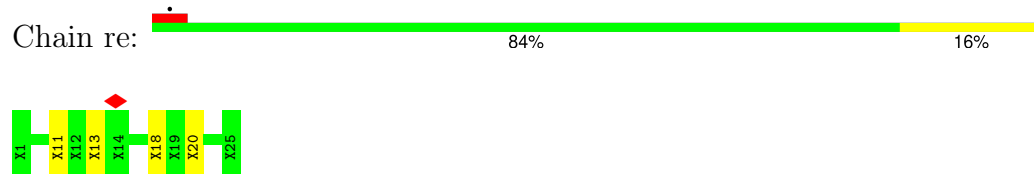
- Molecule 18: unassigned peptide A



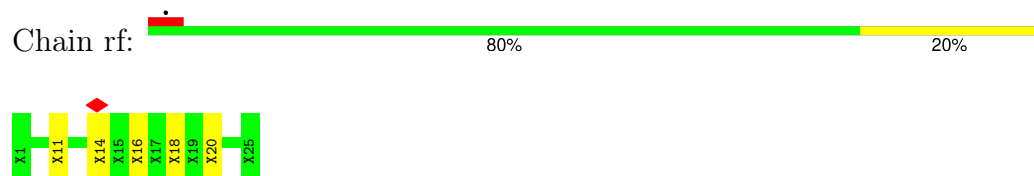
- Molecule 18: unassigned peptide A



- Molecule 18: unassigned peptide A



- Molecule 18: unassigned peptide A



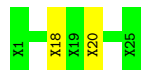
- Molecule 18: unassigned peptide A



There are no outlier residues recorded for this chain.

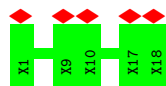
- Molecule 18: unassigned peptide A

Chain rh:  92% 8%



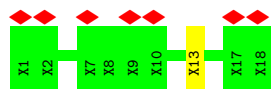
- Molecule 19: unassigned peptide B

Chain sQ:  28% 100%



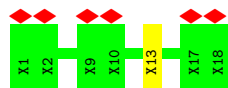
- Molecule 19: unassigned peptide B

Chain sT:  39% 94% 6%



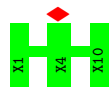
- Molecule 19: unassigned peptide B

Chain sU:  33% 94% 6%



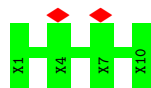
- Molecule 20: unassigned peptide C

Chain tS:  10% 100%



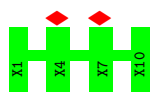
- Molecule 20: unassigned peptide C

Chain tX:  20% 100%

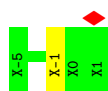
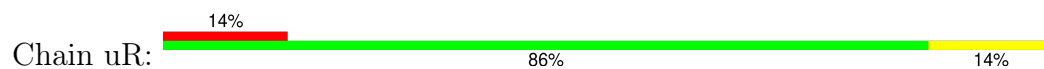


- Molecule 20: unassigned peptide C

Chain tY:  20% 100%



- Molecule 21: unassigned peptide D



- Molecule 21: unassigned peptide D



- Molecule 21: unassigned peptide D



- Molecule 22: unassigned peptide E



There are no outlier residues recorded for this chain.

- Molecule 22: unassigned peptide E



There are no outlier residues recorded for this chain.

- Molecule 22: unassigned peptide E



There are no outlier residues recorded for this chain.

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C3	Depositor
Number of particles used	113800	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	0.101	Depositor
Minimum map value	-0.072	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	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

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

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	S0	0.11	0/4016	0.31	0/5464
1	S1	0.12	0/4016	0.31	0/5464
1	S2	0.11	0/4016	0.32	0/5464
1	S3	0.12	0/4016	0.31	0/5464
1	S4	0.12	0/4016	0.32	0/5464
1	S5	0.11	0/4016	0.31	0/5464
1	S6	0.11	0/4016	0.29	0/5464
1	S7	0.11	0/4016	0.30	0/5464
1	S8	0.13	0/4016	0.32	0/5464
1	SA	0.11	0/4016	0.30	0/5464
1	SO	0.12	0/4016	0.35	2/5464 (0.0%)
1	SP	0.12	0/4016	0.32	0/5464
1	SQ	0.11	0/4016	0.32	0/5464
1	Sv	0.12	0/4016	0.31	0/5464
1	Sw	0.11	0/4016	0.30	0/5464
1	Sx	0.11	0/4016	0.30	0/5464
1	Sy	0.12	0/4016	0.31	0/5464
1	Sz	0.11	0/4016	0.31	0/5464
2	T1	0.11	0/2205	0.32	0/2988
2	T2	0.11	0/2205	0.30	0/2988
2	T3	0.11	0/2205	0.31	0/2988
2	T4	0.12	0/2205	0.32	0/2988
2	T5	0.12	0/2205	0.31	0/2988
2	T6	0.11	0/2205	0.30	0/2988
2	T7	0.11	0/2205	0.29	0/2988
2	T8	0.11	0/2205	0.29	0/2988
2	T9	0.12	0/2205	0.31	0/2988
2	TF	0.11	0/2205	0.29	0/2988
2	TG	0.11	0/2205	0.30	0/2988
2	TH	0.11	0/2205	0.30	0/2988
2	Td	0.11	0/2205	0.30	0/2988
2	Te	0.11	0/2205	0.31	0/2988

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Tf	0.11	0/2205	0.31	0/2988
2	Tg	0.12	0/2205	0.32	0/2988
2	Th	0.12	0/2205	0.32	1/2988 (0.0%)
2	Ti	0.12	0/2205	0.33	0/2988
3	UL	0.11	0/1700	0.28	0/2318
3	UM	0.11	0/1700	0.29	0/2318
3	UN	0.11	0/1700	0.29	0/2318
3	Up	0.12	0/1700	0.31	0/2318
3	Uq	0.11	0/1700	0.29	0/2318
3	Ur	0.11	0/1700	0.31	0/2318
3	Us	0.12	0/1700	0.31	0/2318
3	Ut	0.10	0/1700	0.29	0/2318
3	Uu	0.11	0/1700	0.28	0/2318
3	VL	0.12	0/1700	0.31	0/2318
3	VM	0.12	0/1700	0.31	0/2318
3	VN	0.10	0/1700	0.29	0/2318
3	Vp	0.11	0/1700	0.28	0/2318
3	Vq	0.11	0/1700	0.29	0/2318
3	Vr	0.11	0/1700	0.30	0/2318
3	Vs	0.11	0/1700	0.29	0/2318
3	Vt	0.11	0/1700	0.29	0/2318
3	Vu	0.11	0/1700	0.29	0/2318
4	WI	0.13	0/4778	0.38	0/6513
4	WJ	0.14	0/4778	0.39	1/6513 (0.0%)
4	WK	0.14	0/4778	0.39	1/6513 (0.0%)
4	Wj	0.13	0/4778	0.38	0/6513
4	Wk	0.13	0/4778	0.39	0/6513
4	Wl	0.13	0/4778	0.39	0/6513
4	Wm	0.13	0/4778	0.39	0/6513
4	Wn	0.13	0/4778	0.40	0/6513
4	Wo	0.14	0/4778	0.39	1/6513 (0.0%)
4	XI	0.13	0/4778	0.38	0/6513
4	XJ	0.13	0/4778	0.39	0/6513
4	XK	0.14	0/4778	0.39	0/6513
4	Xj	0.13	0/4778	0.36	0/6513
4	Xk	0.13	0/4778	0.38	0/6513
4	Xl	0.13	0/4778	0.40	0/6513
4	Xm	0.13	0/4778	0.39	0/6513
4	Xn	0.13	0/4778	0.39	0/6513
4	Xo	0.14	0/4778	0.41	1/6513 (0.0%)
5	YC	0.19	0/8405	0.46	1/11412 (0.0%)
5	YX	0.19	0/8405	0.46	0/11412
5	YY	0.18	0/8405	0.45	0/11412

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	Yc	0.19	0/8405	0.46	0/11412
5	Yx	0.19	0/8405	0.46	0/11412
5	Yy	0.19	0/8405	0.45	2/11412 (0.0%)
6	ZD	0.14	0/2709	0.30	0/3694
6	ZE	0.16	0/2736	0.32	0/3731
6	ZZ	0.14	0/2709	0.29	0/3694
6	Za	0.14	0/2709	0.29	0/3694
6	Zb	0.17	0/2736	0.31	0/3731
6	Zc	0.16	0/2736	0.32	0/3731
6	aD	0.14	0/2709	0.29	0/3694
6	aE	0.17	0/2736	0.31	0/3731
6	aZ	0.14	0/2709	0.29	0/3694
6	aa	0.14	0/2709	0.29	0/3694
6	ab	0.17	0/2736	0.31	0/3731
6	ac	0.17	0/2736	0.30	0/3731
7	b0	0.21	0/5092	0.38	0/6928
7	b3	0.19	0/5092	0.37	0/6928
7	b4	0.19	0/5092	0.36	0/6928
7	b5	0.20	0/5092	0.37	0/6928
7	b6	0.20	0/5092	0.37	0/6928
7	b7	0.20	0/5092	0.38	0/6928
7	b8	0.21	0/5092	0.38	0/6928
7	b9	0.21	0/5092	0.39	1/6928 (0.0%)
7	bN	0.22	0/5092	0.36	0/6928
7	bO	0.22	0/5092	0.37	0/6928
7	bP	0.22	0/5092	0.36	0/6928
7	bQ	0.22	0/5092	0.37	0/6928
7	bR	0.22	0/5092	0.37	0/6928
7	bY	0.22	0/5092	0.38	0/6928
7	cA	0.21	0/5092	0.38	0/6928
7	cB	0.21	0/5092	0.37	0/6928
7	cC	0.21	0/5092	0.37	0/6928
7	cD	0.22	0/5092	0.37	0/6928
7	cE	0.19	0/5092	0.36	0/6928
7	cF	0.21	0/5092	0.39	0/6928
7	cG	0.22	0/5092	0.38	0/6928
7	cH	0.22	0/5092	0.38	0/6928
7	cI	0.22	0/5092	0.38	0/6928
7	cJ	0.21	0/5092	0.38	0/6928
7	cK	0.22	0/5092	0.37	0/6928
7	cL	0.22	0/5092	0.38	0/6928
7	cM	0.22	0/5092	0.37	0/6928
7	cN	0.22	0/5092	0.38	0/6928

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	cO	0.22	0/5092	0.37	0/6928
7	cP	0.22	0/5092	0.38	0/6928
7	dS	0.23	0/5033	0.39	0/6847
7	dT	0.23	0/5033	0.38	0/6847
7	dU	0.23	0/5033	0.39	0/6847
7	dV	0.22	0/5033	0.38	0/6847
7	dW	0.23	0/5033	0.39	0/6847
7	dZ	0.22	0/5033	0.38	0/6847
8	eB	0.22	0/5257	0.39	0/7144
8	eU	0.23	0/5257	0.40	0/7144
8	eW	0.22	0/5257	0.38	0/7144
8	f9	0.23	0/5337	0.40	0/7256
8	fA	0.22	0/5337	0.39	1/7256 (0.0%)
8	fB	0.24	1/5257 (0.0%)	0.39	0/7144
8	fR	0.22	0/5337	0.39	1/7256 (0.0%)
8	fS	0.23	0/5337	0.41	1/7256 (0.0%)
8	fU	0.23	0/5257	0.38	0/7144
8	fW	0.22	0/5257	0.38	0/7144
8	fr	0.22	0/5337	0.38	0/7256
8	fs	0.23	0/5337	0.40	1/7256 (0.0%)
9	gE	0.21	0/4402	0.32	0/5966
9	gG	0.21	0/4402	0.33	0/5966
9	gH	0.21	0/4402	0.33	0/5966
10	gd	0.11	0/724	0.25	0/984
11	h1	0.28	0/1333	0.42	0/1807
11	h2	0.27	0/1333	0.41	0/1807
11	hI	0.27	0/1333	0.43	0/1807
11	hJ	0.27	0/1333	0.43	0/1807
11	hK	0.27	0/1333	0.41	0/1807
11	hL	0.28	0/1333	0.43	0/1807
11	hM	0.27	0/1333	0.42	0/1807
11	hX	0.27	0/1333	0.41	0/1807
11	he	0.22	0/1333	0.40	0/1807
11	hf	0.22	0/1333	0.40	0/1807
11	hg	0.22	0/1333	0.39	0/1807
11	hh	0.22	0/1333	0.40	0/1807
11	hi	0.22	0/1333	0.40	0/1807
11	hj	0.26	0/1333	0.42	0/1807
11	hk	0.27	0/1333	0.43	0/1807
11	hl	0.26	0/1333	0.43	0/1807
11	hm	0.26	0/1333	0.42	0/1807
11	hn	0.26	0/1333	0.42	0/1807
11	ho	0.27	0/1333	0.43	0/1807

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
11	hp	0.27	0/1333	0.42	0/1807
11	hq	0.27	0/1333	0.39	0/1807
11	hr	0.27	0/1333	0.44	0/1807
11	hs	0.27	0/1333	0.43	0/1807
11	ht	0.22	0/1333	0.39	0/1807
11	hu	0.26	0/1333	0.42	0/1807
11	hv	0.27	0/1333	0.41	0/1807
11	hw	0.28	0/1333	0.43	0/1807
11	hx	0.28	0/1333	0.41	0/1807
11	hy	0.28	0/1333	0.42	0/1807
11	hz	0.28	0/1333	0.43	0/1807
12	iC	0.27	0/3070	0.41	0/4164
12	iD	0.26	0/3070	0.40	0/4164
12	iF	0.27	0/3070	0.41	0/4164
13	ja	0.22	0/139	0.43	0/192
13	jb	0.23	0/139	0.57	0/192
13	jc	0.23	0/139	0.55	0/192
14	k3	0.24	0/1643	0.38	0/2228
14	k4	0.24	0/1643	0.36	0/2228
14	k7	0.25	0/1643	0.39	0/2228
14	k8	0.24	0/1643	0.35	0/2228
14	kV	0.24	0/1643	0.36	0/2228
14	lV	0.24	0/1643	0.38	0/2228
15	m1	0.24	0/1035	0.41	1/1403 (0.1%)
15	m2	0.24	0/1035	0.38	0/1403
15	m5	0.25	0/1035	0.39	0/1403
15	m6	0.23	0/1035	0.40	0/1403
15	mT	0.24	0/1035	0.40	0/1403
15	nT	0.25	0/1035	0.39	0/1403
16	o0	0.24	0/2795	0.45	0/3784
16	o1	0.24	0/2479	0.50	0/3354
16	o2	0.25	0/2479	0.50	0/3354
16	o6	0.24	0/2479	0.50	0/3354
16	pA	0.25	0/2795	0.46	0/3784
16	pB	0.25	0/2795	0.45	0/3784
17	q3	0.28	0/1686	0.44	0/2292
17	q4	0.28	0/1686	0.44	0/2292
17	q5	0.30	0/1729	0.50	0/2349
17	q7	0.29	0/1729	0.50	2/2349 (0.1%)
17	q8	0.28	0/1686	0.48	0/2292
17	q9	0.29	0/1729	0.50	0/2349
All	All	0.19	1/663886 (0.0%)	0.38	18/902721 (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
1	S2	0	1
1	Sx	0	1
5	Yc	0	1
5	Yx	0	1
7	b4	0	1
7	b7	0	1
7	cB	0	1
7	cJ	0	1
7	cK	0	1
7	cP	0	1
7	dV	0	1
16	o1	0	1
16	o2	0	1
All	All	0	13

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	fB	303	ASN	C-O	6.32	1.26	1.23

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	SO	46	GLY	CA-C-N	7.10	124.71	120.24
1	SO	46	GLY	C-N-CA	7.10	124.71	120.24
8	fS	64	THR	N-CA-C	-6.66	105.78	114.04
5	Yy	985	GLU	N-CA-CB	-6.19	107.11	114.17
8	fs	64	THR	N-CA-C	-5.83	106.81	114.04
8	fR	64	THR	N-CA-C	-5.78	106.77	113.88
17	q7	109	TYR	CA-C-N	-5.65	111.00	122.31
17	q7	109	TYR	C-N-CA	-5.65	111.00	122.31
5	YC	985	GLU	N-CA-CB	-5.63	107.75	114.17
4	Wo	156	SER	CB-CA-C	-5.61	110.12	116.63
2	Th	128	ASP	CB-CA-C	-5.55	110.19	116.63
4	Xo	156	SER	CB-CA-C	-5.54	110.20	116.63
15	m1	4	ILE	N-CA-C	-5.36	107.20	111.81
4	WK	113	SER	CB-CA-C	-5.16	110.61	116.54
8	fA	64	THR	N-CA-C	-5.16	106.93	113.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	b9	348	ALA	N-CA-C	-5.13	108.77	114.62
5	Yy	987	ARG	N-CA-C	5.04	116.44	110.19
4	WJ	314	ASN	CB-CA-C	-5.01	110.78	116.54

There are no chirality outliers.

All (13) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	S2	87	TYR	Peptide
1	Sx	87	TYR	Peptide
5	Yc	398	SER	Peptide
5	Yx	398	SER	Peptide
7	b4	572	LEU	Peptide
7	b7	572	LEU	Peptide
7	cB	572	LEU	Peptide
7	cJ	572	LEU	Peptide
7	cK	572	LEU	Peptide
7	cP	572	LEU	Peptide
7	dV	198	ILE	Peptide
16	o1	96	ARG	Peptide
16	o2	96	ARG	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	S0	3945	0	3828	211	0
1	S1	3945	0	3828	211	0
1	S2	3945	0	3828	206	0
1	S3	3945	0	3828	187	0
1	S4	3945	0	3828	209	0
1	S5	3945	0	3828	190	0
1	S6	3945	0	3828	211	0
1	S7	3945	0	3828	196	0
1	S8	3945	0	3828	198	0
1	SA	3945	0	3828	190	0
1	SO	3945	0	3828	191	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	SP	3945	0	3828	195	0
1	SQ	3945	0	3828	197	0
1	Sv	3945	0	3828	203	0
1	Sw	3945	0	3828	185	0
1	Sx	3945	0	3828	206	0
1	Sy	3945	0	3828	196	0
1	Sz	3945	0	3828	202	0
2	T1	2175	0	2157	77	0
2	T2	2175	0	2157	66	0
2	T3	2175	0	2157	74	0
2	T4	2175	0	2157	73	0
2	T5	2175	0	2157	54	0
2	T6	2175	0	2157	66	0
2	T7	2175	0	2157	65	0
2	T8	2175	0	2157	61	0
2	T9	2175	0	2157	61	0
2	TF	2175	0	2157	70	0
2	TG	2175	0	2157	62	0
2	TH	2175	0	2157	64	0
2	Td	2175	0	2157	77	0
2	Te	2175	0	2157	66	0
2	Tf	2175	0	2157	62	0
2	Tg	2175	0	2157	61	0
2	Th	2175	0	2157	65	0
2	Ti	2175	0	2157	68	0
3	UL	1665	0	1638	73	0
3	UM	1665	0	1638	78	0
3	UN	1665	0	1638	80	0
3	Up	1665	0	1638	64	0
3	Uq	1665	0	1638	77	0
3	Ur	1665	0	1638	71	0
3	Us	1665	0	1638	74	0
3	Ut	1665	0	1638	57	0
3	Uu	1665	0	1638	65	0
3	VL	1665	0	1638	75	0
3	VM	1665	0	1638	76	0
3	VN	1665	0	1638	63	0
3	Vp	1665	0	1638	69	0
3	Vq	1665	0	1638	72	0
3	Vr	1665	0	1638	74	0
3	Vs	1665	0	1638	79	0
3	Vt	1665	0	1638	70	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Vu	1665	0	1638	77	0
4	WI	4675	0	4446	222	0
4	WJ	4675	0	4447	222	0
4	WK	4675	0	4446	240	0
4	Wj	4675	0	4446	236	0
4	Wk	4675	0	4446	215	0
4	Wl	4675	0	4447	226	0
4	Wm	4675	0	4447	222	0
4	Wn	4675	0	4446	247	0
4	Wo	4675	0	4446	234	0
4	XI	4675	0	4446	239	0
4	XJ	4675	0	4447	244	0
4	XK	4675	0	4446	250	0
4	Xj	4675	0	4446	250	0
4	Xk	4675	0	4446	223	0
4	Xl	4675	0	4447	233	0
4	Xm	4675	0	4447	229	0
4	Xn	4675	0	4446	240	0
4	Xo	4675	0	4446	230	0
5	YC	8199	0	7914	358	0
5	YX	8199	0	7914	358	0
5	YY	8199	0	7914	340	0
5	Yc	8199	0	7914	376	0
5	Yx	8199	0	7914	343	0
5	Yy	8199	0	7914	347	0
6	ZD	2631	0	2509	82	0
6	ZE	2658	0	2532	64	0
6	ZZ	2631	0	2509	72	0
6	Za	2631	0	2509	80	0
6	Zb	2658	0	2532	60	0
6	Zc	2658	0	2532	59	0
6	aD	2631	0	2509	68	0
6	aE	2658	0	2532	59	0
6	aZ	2631	0	2509	66	0
6	aa	2631	0	2509	77	0
6	ab	2658	0	2532	59	0
6	ac	2658	0	2532	57	0
7	b0	5000	0	4918	149	0
7	b3	5000	0	4918	114	0
7	b4	5000	0	4918	121	0
7	b5	5000	0	4918	113	0
7	b6	5000	0	4918	119	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	b7	5000	0	4918	106	0
7	b8	5000	0	4918	123	0
7	b9	5000	0	4918	128	0
7	bN	5000	0	4918	111	0
7	bO	5000	0	4918	121	0
7	bP	5000	0	4918	118	0
7	bQ	5000	0	4918	120	0
7	bR	5000	0	4918	126	0
7	bY	5000	0	4918	118	0
7	cA	5000	0	4918	143	0
7	cB	5000	0	4918	143	0
7	cC	5000	0	4918	118	0
7	cD	5000	0	4918	126	0
7	cE	5000	0	4918	116	0
7	cF	5000	0	4918	138	0
7	cG	5000	0	4918	118	0
7	cH	5000	0	4918	127	0
7	cI	5000	0	4918	134	0
7	cJ	5000	0	4918	122	0
7	cK	5000	0	4918	123	0
7	cL	5000	0	4918	130	0
7	cM	5000	0	4918	122	0
7	cN	5000	0	4918	137	0
7	cO	5000	0	4918	135	0
7	cP	5000	0	4918	135	0
7	dS	4941	0	4858	118	0
7	dT	4941	0	4858	110	0
7	dU	4941	0	4858	138	0
7	dV	4941	0	4858	102	0
7	dW	4941	0	4858	107	0
7	dZ	4941	0	4858	116	0
8	eB	5157	0	5011	172	0
8	eU	5157	0	5011	172	0
8	eW	5157	0	5011	155	0
8	f9	5235	0	5086	151	0
8	fA	5235	0	5086	144	0
8	fB	5157	0	5011	158	0
8	fR	5235	0	5086	132	0
8	fS	5235	0	5086	148	0
8	fU	5157	0	5011	182	0
8	fW	5157	0	5011	154	0
8	fr	5235	0	5086	137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	fs	5235	0	5086	146	0
9	gE	4321	0	4227	107	0
9	gG	4321	0	4227	121	0
9	gH	4321	0	4227	115	0
10	gd	709	0	713	14	0
11	h1	1304	0	1255	50	0
11	h2	1304	0	1255	42	0
11	hI	1304	0	1255	41	0
11	hJ	1304	0	1255	45	0
11	hK	1304	0	1255	53	0
11	hL	1304	0	1255	49	0
11	hM	1304	0	1255	45	0
11	hX	1304	0	1255	51	0
11	he	1304	0	1255	43	0
11	hf	1304	0	1255	45	0
11	hg	1304	0	1255	42	0
11	hh	1304	0	1255	38	0
11	hi	1304	0	1255	45	0
11	hj	1304	0	1255	48	0
11	hk	1304	0	1255	55	0
11	hl	1304	0	1255	42	0
11	hm	1304	0	1255	49	0
11	hn	1304	0	1255	44	0
11	ho	1304	0	1255	42	0
11	hp	1304	0	1255	48	0
11	hq	1304	0	1255	40	0
11	hr	1304	0	1255	37	0
11	hs	1304	0	1255	55	0
11	ht	1304	0	1255	38	0
11	hu	1304	0	1255	46	0
11	hv	1304	0	1255	39	0
11	hw	1304	0	1255	50	0
11	hx	1304	0	1255	49	0
11	hy	1304	0	1255	49	0
11	hz	1304	0	1255	44	0
12	iC	3000	0	2928	100	0
12	iD	3000	0	2928	100	0
12	iF	3000	0	2928	79	0
13	ja	137	0	130	4	0
13	jb	137	0	130	4	0
13	jc	137	0	130	2	0
14	k3	1599	0	1544	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	k4	1599	0	1544	33	0
14	k7	1599	0	1544	31	0
14	k8	1599	0	1544	27	0
14	kV	1599	0	1544	27	0
14	lV	1599	0	1544	36	0
15	m1	1019	0	1015	36	0
15	m2	1019	0	1015	35	0
15	m5	1019	0	1015	38	0
15	m6	1019	0	1015	36	0
15	mT	1019	0	1015	37	0
15	nT	1019	0	1015	36	0
16	o0	2749	0	2715	105	0
16	o1	2436	0	2408	90	0
16	o2	2436	0	2408	85	0
16	o6	2436	0	2408	91	0
16	pA	2749	0	2715	96	0
16	pB	2749	0	2715	100	0
17	q3	1650	0	1569	77	0
17	q4	1650	0	1569	72	0
17	q5	1693	0	1619	82	0
17	q7	1693	0	1619	74	0
17	q8	1650	0	1569	71	0
17	q9	1693	0	1619	84	0
18	rc	125	0	27	1	0
18	rd	125	0	27	3	0
18	re	125	0	27	2	0
18	rf	125	0	27	3	0
18	rg	125	0	27	0	0
18	rh	125	0	27	1	0
19	sQ	90	0	22	0	0
19	sT	90	0	22	1	0
19	sU	90	0	22	1	0
20	tS	50	0	12	0	0
20	tX	50	0	12	0	0
20	tY	50	0	12	0	0
21	uR	35	0	10	1	0
21	uV	35	0	10	0	0
21	uW	35	0	10	0	0
22	vZ	45	0	11	0	0
22	va	45	0	11	0	0
22	vb	45	0	11	0	0
23	S0	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	S1	1	0	0	0	0
23	S4	1	0	0	0	0
23	SA	1	0	0	0	0
23	SQ	1	0	0	0	0
23	Sv	1	0	0	0	0
All	All	652117	0	633080	18930	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 15.

All (18930) 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)
11:hi:82:ARG:HH12	11:hi:138:GLY:HA2	1.34	0.91
1:Sz:2:SER:N	1:Sz:5:THR:HG1	1.70	0.90
1:Sv:173:ILE:HD11	1:Sz:174:ALA:HB2	1.54	0.89
1:S1:173:ILE:HD11	1:S3:174:ALA:HB2	1.55	0.88
2:Te:168:PHE:HA	2:Tg:163:SER:HB3	1.55	0.87
4:XK:290:SER:HA	4:XK:371:PHE:H	1.39	0.87
1:S8:2:SER:N	1:S8:5:THR:HG1	1.72	0.87
4:Xk:290:SER:HA	4:Xk:371:PHE:H	1.41	0.86
8:eU:122:TYR:HB3	8:eU:152:ILE:HD11	1.54	0.86
4:Xn:290:SER:HA	4:Xn:371:PHE:H	1.41	0.86
2:TF:168:PHE:HA	2:TG:163:SER:HB3	1.58	0.85
4:XJ:326:MET:HG3	4:XJ:327:PRO:HD3	1.59	0.85
11:hL:82:ARG:HH12	11:hL:138:GLY:HA2	1.42	0.85
7:bP:34:GLN:NE2	7:bP:58:THR:OG1	2.10	0.84
2:Te:201:LYS:HB3	2:Te:280:ALA:HB3	1.57	0.84
1:S3:5:THR:HG21	4:XI:200:LEU:HB2	1.60	0.84
2:T8:201:LYS:HB3	2:T8:280:ALA:HB3	1.60	0.84
7:b7:110:TYR:H	7:b7:138:GLY:HA3	1.39	0.84
4:WI:290:SER:HA	4:WI:371:PHE:H	1.43	0.83
4:WK:38:GLY:HA2	4:WK:43:PRO:HA	1.59	0.83
2:T5:201:LYS:HB3	2:T5:280:ALA:HB3	1.57	0.83
1:S5:160:MET:HG3	1:S5:164:LYS:HZ2	1.44	0.83
4:WK:20:ARG:HD3	5:YC:922:ASP:HA	1.60	0.83
4:Wk:290:SER:HA	4:Wk:371:PHE:H	1.42	0.83
7:b9:400:ARG:NH1	7:b9:403:CYS:SG	2.52	0.83
2:T5:168:PHE:HA	2:T7:163:SER:HB3	1.59	0.83
4:Wm:359:GLU:HB3	4:Wm:370:HIS:HB3	1.61	0.83
5:YX:143:MET:HG2	5:YX:544:VAL:HG12	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xn:146:VAL:HG21	4:Xn:149:LYS:HD3	1.61	0.82
2:TF:201:LYS:HB3	2:TF:280:ALA:HB3	1.61	0.82
1:S2:8:HIS:HB3	4:XK:196:ARG:HH11	1.43	0.82
8:f9:425:ALA:HB2	8:f9:476:ILE:HD11	1.61	0.82
1:SQ:194:ALA:HB2	1:SQ:208:TYR:HB3	1.61	0.82
8:fW:466:THR:HG22	8:fr:466:THR:HG22	1.61	0.82
4:WJ:147:LYS:HD3	4:WK:153:LYS:HB3	1.60	0.82
4:Wo:20:ARG:HD3	5:YY:922:ASP:HA	1.62	0.82
7:cF:400:ARG:NH1	7:cF:403:CYS:SG	2.53	0.82
1:SO:160:MET:HG3	1:SO:164:LYS:HZ2	1.45	0.82
5:Yx:504:GLN:HG2	5:Yx:505:PRO:HD2	1.60	0.82
8:fB:122:TYR:HB3	8:fB:152:ILE:HD11	1.60	0.81
1:Sz:5:THR:HG21	4:Wj:200:LEU:HB2	1.62	0.81
7:bO:265:ALA:O	7:bO:269:PHE:HB2	1.80	0.81
1:S6:8:HIS:HB3	4:Xn:196:ARG:HH11	1.46	0.81
1:S2:61:PRO:HB3	1:S2:74:LYS:HD3	1.61	0.81
4:Wk:24:ILE:HG13	4:Wo:7:ILE:HD11	1.60	0.81
5:YX:504:GLN:HG2	5:YX:505:PRO:HD2	1.63	0.81
8:fr:157:LYS:O	8:fr:158:ASN:ND2	2.13	0.81
4:WI:315:GLY:HA3	4:WK:316:ILE:HG23	1.62	0.81
11:hX:82:ARG:HH12	11:hX:138:GLY:HA2	1.44	0.81
5:Yx:782:VAL:HG21	5:Yx:859:ARG:HB3	1.62	0.81
1:S4:66:VAL:HA	1:S8:78:PRO:HB3	1.62	0.81
4:XI:18:TYR:HB2	4:XI:21:LYS:HB2	1.62	0.81
1:Sx:8:HIS:HB3	4:Wn:196:ARG:HH11	1.46	0.80
5:Yx:990:MET:HG3	5:Yx:992:PRO:HD2	1.61	0.80
7:cC:400:ARG:NH1	7:cC:403:CYS:SG	2.54	0.80
8:fA:281:ASN:ND2	8:fA:315:GLY:O	2.14	0.80
4:Xj:195:HIS:HE2	4:Xj:236:CYS:HG	1.29	0.80
4:Xk:315:GLY:HA3	4:Xo:316:ILE:HG23	1.63	0.80
8:eB:466:THR:HG22	8:fA:466:THR:HG22	1.63	0.80
8:fB:466:THR:HG22	8:fS:466:THR:HG22	1.63	0.80
8:fr:281:ASN:ND2	8:fr:315:GLY:O	2.13	0.80
16:o1:322:ASP:HB2	16:o1:343:THR:HG23	1.64	0.80
2:T1:201:LYS:HB3	2:T1:280:ALA:HB3	1.61	0.80
1:S2:5:THR:O	4:XK:196:ARG:NH1	2.14	0.80
2:Tf:201:LYS:HB3	2:Tf:280:ALA:HB3	1.62	0.80
1:S6:150:ALA:HB3	1:S6:168:LEU:HD13	1.64	0.80
2:T2:201:LYS:HB3	2:T2:280:ALA:HB3	1.61	0.80
4:WJ:359:GLU:HB3	4:WJ:370:HIS:HB3	1.63	0.80
4:Wj:323:THR:N	4:Wj:358:VAL:O	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:298:ALA:HA	5:Yx:347:GLU:HB3	1.64	0.80
1:S0:444:TYR:HB2	1:S7:486:ASP:HB2	1.63	0.80
8:fR:68:GLN:O	8:fR:72:ASN:ND2	2.14	0.80
16:o2:322:ASP:HB2	16:o2:343:THR:HG23	1.63	0.80
1:S6:5:THR:O	4:Xn:196:ARG:NH1	2.14	0.80
2:T3:201:LYS:HB3	2:T3:280:ALA:HB3	1.63	0.80
8:eB:83:ALA:O	8:eB:326:ARG:NH2	2.15	0.80
15:m2:19:TRP:O	15:m2:20:ASN:ND2	2.14	0.80
5:Yy:143:MET:HG2	5:Yy:544:VAL:HG12	1.64	0.80
2:T4:201:LYS:HB3	2:T4:280:ALA:HB3	1.63	0.79
4:Xj:304:ILE:HD12	4:Xj:385:TRP:HA	1.64	0.79
7:dW:400:ARG:NH1	7:dW:403:CYS:SG	2.54	0.79
12:iF:77:ALA:O	12:iF:79:ASP:N	2.15	0.79
5:Yc:21:VAL:HG23	5:Yc:69:PHE:HB3	1.63	0.79
7:dT:400:ARG:NH1	7:dT:403:CYS:SG	2.55	0.79
1:S1:126:ASN:OD1	1:S2:132:ARG:NH1	2.16	0.79
4:WK:290:SER:HA	4:WK:371:PHE:H	1.45	0.79
4:XI:304:ILE:HD12	4:XI:385:TRP:HA	1.65	0.79
4:XK:60:LEU:HD21	4:XK:79:ILE:HG22	1.62	0.79
8:eW:157:LYS:O	8:eW:158:ASN:ND2	2.16	0.79
4:Xm:276:LEU:HB2	4:Xm:280:ILE:HG12	1.64	0.79
7:cM:400:ARG:NH1	7:cM:403:CYS:SG	2.56	0.79
1:S1:66:VAL:HA	1:S3:78:PRO:HB3	1.65	0.79
4:Wl:186:TYR:HD1	4:Wl:227:GLY:HA2	1.48	0.79
2:T1:163:SER:HB3	2:T3:168:PHE:HA	1.65	0.79
4:Wo:290:SER:HA	4:Wo:371:PHE:H	1.46	0.79
4:XK:20:ARG:HD3	5:Yc:922:ASP:HA	1.65	0.79
4:XI:317:LEU:HD13	4:Xn:312:ARG:HH12	1.48	0.79
6:aa:147:LEU:HD23	6:aa:149:ASP:H	1.48	0.79
11:ht:82:ARG:HH12	11:ht:138:GLY:HA2	1.46	0.79
1:Sx:5:THR:O	4:Wn:196:ARG:NH1	2.16	0.79
4:XJ:18:TYR:HB2	4:XJ:21:LYS:HB2	1.64	0.79
5:YY:143:MET:HG2	5:YY:544:VAL:HG12	1.64	0.79
7:cN:256:PRO:HG2	7:cN:339:THR:H	1.48	0.79
7:dS:142:LYS:NZ	7:dS:215:LYS:O	2.16	0.79
1:S7:221:THR:HG23	1:S7:224:TYR:H	1.48	0.79
4:Wn:20:ARG:HD3	5:YX:922:ASP:HA	1.65	0.78
5:YC:298:ALA:HA	5:YC:347:GLU:HB3	1.65	0.78
5:Yc:782:VAL:HG21	5:Yc:859:ARG:HB3	1.65	0.78
7:bY:400:ARG:NH1	7:bY:403:CYS:SG	2.56	0.78
7:cP:256:PRO:HG2	7:cP:339:THR:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fB:385:THR:HG23	8:fB:388:GLN:HB2	1.64	0.78
12:iD:18:ASP:OD1	12:iD:18:ASP:N	2.14	0.78
4:Wm:360:THR:HA	4:Wm:366:PRO:HB3	1.65	0.78
12:iC:77:ALA:O	12:iC:79:ASP:N	2.17	0.78
4:Wl:24:ILE:HG13	4:Wk:7:ILE:HD11	1.64	0.78
15:m6:19:TRP:O	15:m6:20:ASN:ND2	2.16	0.78
1:SA:194:ALA:HB2	1:SA:208:TYR:HB3	1.65	0.78
4:Xl:186:TYR:HD2	4:Xl:227:GLY:HA2	1.48	0.78
7:cH:228:GLY:HA2	7:cH:345:SER:HB3	1.66	0.78
1:SA:5:THR:HG21	4:Wk:200:LEU:HB2	1.65	0.78
4:Wk:315:GLY:HA3	4:Wo:316:ILE:HG23	1.63	0.78
7:b5:110:TYR:H	7:b5:138:GLY:HA3	1.48	0.78
7:bY:133:GLU:HB3	7:bY:141:LYS:HB2	1.66	0.78
7:dZ:256:PRO:HG2	7:dZ:339:THR:H	1.48	0.78
8:fW:122:TYR:HB3	8:fW:152:ILE:HD11	1.65	0.78
4:Xo:290:SER:HA	4:Xo:371:PHE:H	1.47	0.78
12:iC:18:ASP:OD1	12:iC:18:ASP:N	2.17	0.78
4:Xo:20:ARG:HD3	5:Yy:922:ASP:HA	1.65	0.78
15:nT:47:ARG:HG3	15:nT:53:PHE:HB3	1.66	0.78
2:T6:201:LYS:HB3	2:T6:280:ALA:HB3	1.63	0.78
4:WJ:360:THR:HA	4:WJ:366:PRO:HB3	1.66	0.78
7:bQ:265:ALA:O	7:bQ:269:PHE:HB2	1.83	0.78
7:cE:57:PRO:HB3	7:cE:62:ALA:HA	1.65	0.78
4:Wo:322:GLY:HA2	4:Wo:360:THR:H	1.49	0.78
7:cA:400:ARG:NH1	7:cA:403:CYS:SG	2.58	0.77
3:Vq:199:GLN:HB2	3:Vs:203:LEU:HD22	1.66	0.77
4:Wj:304:ILE:HD12	4:Wj:385:TRP:HA	1.66	0.77
4:Wn:265:LEU:HB3	4:Wn:281:TYR:HB3	1.65	0.77
4:Xl:172:GLN:HG3	4:Xl:237:ASN:HA	1.65	0.77
5:Yy:404:TYR:HB2	5:Yy:413:TRP:HE3	1.47	0.77
15:m5:19:TRP:O	15:m5:20:ASN:ND2	2.17	0.77
5:YX:425:ARG:NH2	5:YX:447:ASN:OD1	2.18	0.77
7:dZ:142:LYS:NZ	7:dZ:215:LYS:O	2.17	0.77
8:fs:425:ALA:HB2	8:fs:476:ILE:HD11	1.64	0.77
6:ZD:275:ILE:HA	6:ZD:309:MET:HA	1.66	0.77
5:YC:404:TYR:HB2	5:YC:413:TRP:HE3	1.49	0.77
8:fs:385:THR:HG23	8:fs:388:GLN:HB2	1.66	0.77
1:SP:221:THR:HG23	1:SP:224:TYR:H	1.48	0.77
2:Td:201:LYS:HB3	2:Td:280:ALA:HB3	1.65	0.77
3:UL:14:LEU:O	3:UL:17:PHE:N	2.17	0.77
4:WJ:290:SER:HA	4:WJ:371:PHE:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xj:323:THR:N	4:Xj:358:VAL:O	2.17	0.77
8:fU:385:THR:HG23	8:fU:388:GLN:HB2	1.66	0.77
1:S8:497:ASN:H	1:S8:500:TYR:HB2	1.49	0.77
4:Wl:144:GLU:HB3	4:WJ:151:ILE:HG21	1.67	0.77
7:dT:142:LYS:NZ	7:dT:215:LYS:O	2.17	0.77
11:ht:114:ARG:HG2	11:ht:126:GLU:HG3	1.67	0.77
3:VL:68:GLY:H	3:VL:217:ARG:HB3	1.50	0.77
4:Wn:290:SER:HA	4:Wn:371:PHE:H	1.48	0.77
7:cE:641:ASN:HB2	7:cF:626:THR:HG23	1.67	0.77
7:dZ:153:LYS:NZ	8:fW:298:ILE:O	2.17	0.77
1:Sv:66:VAL:HA	1:Sz:78:PRO:HB3	1.65	0.77
4:Wj:279:SER:HB2	4:Wn:326:MET:HB2	1.67	0.77
8:eB:385:THR:HG23	8:eB:388:GLN:HB2	1.67	0.77
12:iF:18:ASP:OD1	12:iF:18:ASP:N	2.18	0.77
15:m5:47:ARG:HG3	15:m5:53:PHE:HB3	1.66	0.77
2:TG:201:LYS:HB3	2:TG:280:ALA:HB3	1.67	0.77
4:Xm:360:THR:HA	4:Xm:366:PRO:HB3	1.65	0.77
5:Yy:216:GLY:HA2	5:Yy:219:TRP:HE1	1.50	0.77
7:bP:400:ARG:NH1	7:bP:403:CYS:SG	2.58	0.77
9:gG:204:HIS:NE2	9:gG:224:GLN:OE1	2.17	0.77
4:Wk:200:LEU:HD23	4:Wk:210:SER:HA	1.67	0.76
4:Wl:10:VAL:HG21	5:YX:976:SER:HB2	1.67	0.76
1:S5:473:LYS:HZ3	4:Wo:362:GLU:HA	1.50	0.76
7:cD:455:LYS:HD2	7:cD:502:VAL:HG22	1.67	0.76
8:fs:40:GLN:O	8:fs:42:GLU:N	2.19	0.76
15:nT:19:TRP:O	15:nT:20:ASN:ND2	2.18	0.76
4:Xl:323:THR:N	4:Xl:358:VAL:O	2.18	0.76
4:Xm:290:SER:HA	4:Xm:371:PHE:H	1.50	0.76
7:cA:110:TYR:H	7:cA:138:GLY:HA3	1.49	0.76
2:Tg:201:LYS:HB3	2:Tg:280:ALA:HB3	1.66	0.76
4:Wm:18:TYR:HB2	4:Wm:21:LYS:HB2	1.67	0.76
8:fA:21:PHE:O	8:fA:72:ASN:ND2	2.19	0.76
4:Wl:265:LEU:HB3	4:Wl:281:TYR:HB3	1.67	0.76
4:Wj:552:VAL:HG23	4:Wn:552:VAL:HG11	1.68	0.76
4:Xj:24:ILE:HG13	4:Xn:7:ILE:HD11	1.67	0.76
5:YC:143:MET:HG2	5:YC:544:VAL:HG12	1.67	0.76
7:bR:400:ARG:NH1	7:bR:403:CYS:SG	2.59	0.76
12:iD:77:ALA:O	12:iD:79:ASP:N	2.18	0.76
4:Wo:193:VAL:HG13	4:Wo:199:GLU:HB3	1.67	0.76
4:XJ:10:VAL:HG21	5:Yc:976:SER:HB2	1.68	0.76
7:dS:400:ARG:NH1	7:dS:403:CYS:SG	2.59	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gG:277:LEU:HD21	9:gG:299:MET:HE1	1.68	0.76
4:Xj:552:VAL:HG23	4:Xn:552:VAL:HG11	1.65	0.76
4:Xn:20:ARG:HD3	5:Yx:922:ASP:HA	1.67	0.76
5:Yc:202:PHE:HB3	5:Yc:209:VAL:HG22	1.68	0.76
7:cJ:400:ARG:NH1	7:cJ:403:CYS:SG	2.57	0.76
7:dS:487:THR:HG21	7:dS:559:MET:HE3	1.68	0.76
7:dW:612:ASN:HD21	7:dW:626:THR:HG23	1.50	0.76
2:T4:163:SER:HB3	2:T8:168:PHE:HA	1.68	0.76
2:Te:53:GLY:HA2	2:Te:59:GLN:H	1.50	0.76
3:Uq:199:GLN:HB2	3:Us:203:LEU:HD22	1.68	0.76
8:f9:645:ASP:OD1	8:f9:645:ASP:N	2.19	0.76
8:fr:393:LYS:HG3	8:fr:406:PRO:HG2	1.66	0.76
1:S0:194:ALA:HB2	1:S0:208:TYR:HB3	1.66	0.75
1:S1:4:ASN:O	1:S1:15:TYR:OH	2.03	0.75
1:S8:5:THR:HG21	4:Xj:200:LEU:HB2	1.68	0.75
1:SO:188:GLN:HG3	1:SQ:192:GLN:HB2	1.68	0.75
1:SP:5:THR:O	4:WK:196:ARG:NH1	2.19	0.75
1:Sx:6:TYR:O	4:Wl:234:GLN:NE2	2.20	0.75
4:WJ:10:VAL:HG21	5:YC:976:SER:HB2	1.67	0.75
8:fS:40:GLN:O	8:fS:42:GLU:N	2.18	0.75
9:gE:416:HIS:HD2	9:gE:418:THR:HG22	1.51	0.75
1:S6:192:GLN:HB2	1:S8:188:GLN:HG3	1.67	0.75
2:TH:199:MET:HG2	2:TH:282:GLN:HB3	1.67	0.75
4:WK:3:GLN:HG3	4:WK:25:LYS:HG3	1.69	0.75
8:fr:40:GLN:O	8:fr:42:GLU:N	2.19	0.75
4:Wm:10:VAL:HG21	5:YY:976:SER:HB2	1.69	0.75
4:Xl:552:VAL:HG23	4:XK:552:VAL:HG11	1.68	0.75
4:Xk:552:VAL:HG23	4:Xo:552:VAL:HG11	1.68	0.75
8:fA:157:LYS:O	8:fA:158:ASN:ND2	2.19	0.75
8:fS:281:ASN:ND2	8:fS:315:GLY:O	2.20	0.75
9:gG:41:GLN:OE1	12:iD:122:ARG:NH1	2.18	0.75
4:WJ:275:SER:HB2	4:WJ:281:TYR:HA	1.67	0.75
5:Yc:298:ALA:HA	5:Yc:347:GLU:HB3	1.67	0.75
1:Sv:185:GLU:HA	1:Sz:193:LEU:HB2	1.69	0.75
6:ab:202:ARG:O	6:ab:248:ARG:NH1	2.17	0.75
7:cB:400:ARG:NH1	7:cB:403:CYS:SG	2.59	0.75
9:gE:204:HIS:NE2	9:gE:224:GLN:OE1	2.20	0.75
15:mT:19:TRP:O	15:mT:20:ASN:ND2	2.20	0.75
2:T4:213:LYS:HA	2:T4:241:GLY:HA3	1.69	0.75
3:Uq:73:ASN:HA	3:Uu:70:ILE:HG12	1.67	0.75
5:Yx:143:MET:HG2	5:Yx:544:VAL:HG12	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:185:GLU:HA	1:S3:193:LEU:HB2	1.68	0.75
2:Td:213:LYS:HA	2:Td:241:GLY:HA3	1.67	0.75
6:aE:202:ARG:O	6:aE:248:ARG:NH1	2.20	0.75
7:cP:571:ARG:NH2	7:cP:587:GLU:OE1	2.19	0.75
7:dW:455:LYS:NZ	7:dW:473:ASP:OD2	2.17	0.75
11:hh:114:ARG:HG2	11:hh:126:GLU:HG3	1.69	0.75
1:S4:147:LEU:HD23	1:S4:164:LYS:HG3	1.69	0.75
4:Xj:87:ASN:HD21	4:Xn:439:TYR:HB3	1.52	0.75
4:Xk:187:ASN:ND2	4:Xk:247:PHE:O	2.19	0.75
5:Yx:404:TYR:HB2	5:Yx:413:TRP:HE3	1.52	0.75
1:S1:18:PHE:HA	1:S3:13:SER:HB2	1.69	0.75
2:Th:201:LYS:HB3	2:Th:280:ALA:HB3	1.67	0.75
4:Xk:43:PRO:HG2	4:Xo:36:GLU:HG3	1.69	0.75
5:YX:298:ALA:HA	5:YX:347:GLU:HB3	1.69	0.75
6:aZ:275:ILE:HA	6:aZ:309:MET:HA	1.67	0.75
7:cO:549:ASP:OD2	7:cP:271:TYR:OH	2.04	0.75
7:cP:116:ILE:HG12	7:cP:171:ILE:HG12	1.68	0.75
7:b4:400:ARG:NH1	7:b4:403:CYS:SG	2.60	0.74
7:cA:365:ARG:HA	7:cA:400:ARG:HH21	1.51	0.74
8:fU:231:ASP:OD1	8:fU:231:ASP:N	2.18	0.74
1:Sv:18:PHE:HA	1:Sz:13:SER:HB2	1.68	0.74
4:XJ:186:TYR:HD2	4:XJ:227:GLY:HA2	1.51	0.74
4:Xm:304:ILE:HD12	4:Xm:385:TRP:HA	1.69	0.74
7:bQ:133:GLU:HB3	7:bQ:141:LYS:HB2	1.70	0.74
2:T2:168:PHE:HA	2:T3:163:SER:HB3	1.69	0.74
4:Wl:38:GLY:HA2	4:Wl:43:PRO:HA	1.70	0.74
4:XJ:172:GLN:HG3	4:XJ:237:ASN:HA	1.69	0.74
7:bP:133:GLU:HB3	7:bP:141:LYS:HB2	1.67	0.74
7:cF:209:ASP:N	7:cF:209:ASP:OD1	2.19	0.74
1:S0:192:GLN:HB2	1:S5:188:GLN:HG3	1.68	0.74
4:Wj:326:MET:HE1	4:Wl:264:ARG:HB3	1.68	0.74
4:Wl:18:TYR:HB2	4:Wl:21:LYS:HB2	1.67	0.74
4:Wl:326:MET:HG3	4:Wl:327:PRO:HD3	1.67	0.74
7:b0:247:GLY:HA2	7:b0:266:LYS:HG3	1.69	0.74
7:b5:400:ARG:NH1	7:b5:403:CYS:SG	2.60	0.74
8:fR:157:LYS:O	8:fR:158:ASN:ND2	2.20	0.74
15:nT:101:ASP:OD1	15:nT:101:ASP:N	2.18	0.74
7:bO:639:THR:HB	7:dT:624:VAL:HG12	1.68	0.74
7:cK:110:TYR:H	7:cK:138:GLY:HA3	1.51	0.74
7:dS:43:GLN:NE2	7:dS:77:ASP:OD1	2.20	0.74
8:fs:645:ASP:OD1	8:fs:645:ASP:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S0:13:SER:HB2	1:S5:18:PHE:HA	1.69	0.74
2:T4:28:GLY:O	2:T4:32:ASN:ND2	2.19	0.74
2:T6:168:PHE:HA	2:T8:163:SER:HB3	1.70	0.74
4:Wl:552:VAL:HG23	4:WK:552:VAL:HG11	1.68	0.74
4:WJ:11:VAL:HG13	4:WK:20:ARG:HG2	1.70	0.74
4:Wl:9:ASN:O	4:Wl:11:VAL:N	2.19	0.74
4:Xj:111:ALA:HB2	4:Xj:117:ILE:HG23	1.70	0.74
8:fB:83:ALA:O	8:fB:326:ARG:NH2	2.20	0.74
8:fr:40:GLN:O	8:fr:42:GLU:N	2.21	0.74
9:gH:277:LEU:HD21	9:gH:299:MET:HE1	1.69	0.74
4:Xj:193:VAL:HG13	4:Xj:199:GLU:HB3	1.69	0.74
8:eU:35:GLU:HG3	8:fs:264:GLN:HB3	1.68	0.74
17:q5:181:VAL:HG23	17:q5:195:VAL:HG21	1.70	0.74
1:S7:5:THR:O	4:Xo:196:ARG:NH1	2.21	0.74
1:Sx:40:SER:HB3	1:Sz:24:ASN:HB2	1.69	0.74
4:Wl:172:GLN:HG3	4:Wl:237:ASN:HA	1.70	0.74
4:XJ:317:LEU:HD13	4:XK:312:ARG:HH12	1.52	0.74
4:Xj:326:MET:HE1	4:Xl:264:ARG:HB3	1.69	0.74
7:b3:110:TYR:H	7:b3:138:GLY:HA3	1.51	0.74
7:b6:57:PRO:HB3	7:b6:62:ALA:HA	1.69	0.74
7:cK:432:ALA:HB2	7:cK:440:ASN:HD22	1.51	0.74
8:fs:157:LYS:O	8:fs:158:ASN:ND2	2.16	0.74
1:S6:6:TYR:O	4:Xl:234:GLN:NE2	2.21	0.74
2:T4:87:ILE:O	2:T4:111:ASN:ND2	2.21	0.74
3:UL:199:GLN:HB2	3:UM:203:LEU:HD22	1.69	0.74
4:Xm:18:TYR:HB2	4:Xm:21:LYS:HB2	1.69	0.74
4:Xo:322:GLY:HA2	4:Xo:360:THR:H	1.53	0.74
5:YC:42:LYS:HG2	5:YC:48:ASN:H	1.53	0.74
5:Yy:887:GLY:H	8:fs:364:THR:HB	1.53	0.74
7:bQ:639:THR:HB	7:dV:624:VAL:HG12	1.70	0.74
7:cI:514:ARG:NH1	7:cN:366:GLU:OE2	2.20	0.74
8:f9:40:GLN:O	8:f9:42:GLU:N	2.20	0.74
1:S6:359:TRP:NE1	1:S8:340:THR:O	2.20	0.73
4:Wk:316:ILE:HG23	4:Wm:315:GLY:HA3	1.69	0.73
11:hn:82:ARG:HH12	11:hn:138:GLY:HA2	1.52	0.73
14:k4:47:THR:OG1	15:m1:115:ASN:O	2.05	0.73
17:q8:167:GLU:HA	17:q9:211:HIS:HD2	1.51	0.73
2:T1:166:SER:O	2:T1:171:LYS:NZ	2.20	0.73
2:TF:64:THR:HA	2:TG:84:ARG:HE	1.51	0.73
3:UM:28:ASP:OD2	3:UN:60:HIS:NE2	2.22	0.73
3:Vu:196:LEU:HB2	3:Vu:214:HIS:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:304:ILE:HD12	4:WJ:385:TRP:HA	1.70	0.73
7:b7:400:ARG:NH1	7:b7:403:CYS:SG	2.61	0.73
7:bY:490:SER:O	7:bY:496:ARG:NH1	2.21	0.73
8:f9:385:THR:HG23	8:f9:388:GLN:HB2	1.70	0.73
8:fW:385:THR:HG23	8:fW:388:GLN:HB2	1.70	0.73
1:S0:340:THR:O	1:S7:359:TRP:NE1	2.22	0.73
4:Xl:190:ASN:HB2	4:Xl:247:PHE:HB3	1.70	0.73
4:Xn:3:GLN:HG3	4:Xn:25:LYS:HG3	1.69	0.73
5:Yc:733:ASP:N	5:Yc:733:ASP:OD1	2.22	0.73
7:b5:12:GLU:OE2	7:b9:561:LYS:NZ	2.20	0.73
7:dU:400:ARG:NH1	7:dU:403:CYS:SG	2.60	0.73
8:eB:157:LYS:O	8:eB:158:ASN:ND2	2.16	0.73
1:S4:18:PHE:HA	1:S8:13:SER:HB2	1.69	0.73
1:S4:212:PRO:HB3	1:S6:199:VAL:HA	1.70	0.73
1:SP:8:HIS:HB3	4:WK:196:ARG:HH11	1.52	0.73
4:WI:18:TYR:HA	5:YC:1000:THR:HA	1.70	0.73
4:Xo:193:VAL:HG13	4:Xo:199:GLU:HB3	1.70	0.73
5:YC:887:GLY:H	8:f9:364:THR:HB	1.52	0.73
7:bP:265:ALA:O	7:bP:269:PHE:HB2	1.88	0.73
7:bY:455:LYS:NZ	7:bY:457:GLN:OE1	2.21	0.73
7:cE:400:ARG:NH1	7:cE:403:CYS:SG	2.61	0.73
1:Sv:147:LEU:HD23	1:Sv:164:LYS:HG3	1.71	0.73
4:Wn:454:TYR:O	4:Wn:600:ARG:NH1	2.21	0.73
4:Xk:316:ILE:HG23	4:Xm:315:GLY:HA3	1.69	0.73
7:cB:247:GLY:HA2	7:cB:266:LYS:HG3	1.70	0.73
7:cD:228:GLY:HA2	7:cD:345:SER:HB3	1.70	0.73
7:cM:549:ASP:OD2	7:cN:271:TYR:OH	2.06	0.73
8:eB:72:ASN:HB2	14:kV:28:ILE:HG22	1.70	0.73
11:hm:17:ARG:HG3	11:hm:20:LEU:HD12	1.69	0.73
1:Sy:266:THR:HB	1:Sy:273:SER:HB2	1.69	0.73
4:Wm:304:ILE:HD12	4:Wm:385:TRP:HA	1.69	0.73
4:Xl:43:PRO:HG2	4:XK:36:GLU:HG3	1.70	0.73
5:YY:312:THR:HG23	5:YY:370:SER:HB2	1.70	0.73
7:bN:133:GLU:HB3	7:bN:141:LYS:HB2	1.69	0.73
9:gE:41:GLN:OE1	12:iC:122:ARG:NH1	2.22	0.73
1:S4:185:GLU:HA	1:S8:193:LEU:HB2	1.71	0.73
1:SP:170:ILE:O	1:SP:174:ALA:HB2	1.87	0.73
1:SQ:5:THR:HG21	4:WI:200:LEU:HB2	1.70	0.73
3:UM:17:PHE:O	3:UN:13:ARG:NH2	2.22	0.73
4:Xl:60:LEU:HD21	4:Xl:79:ILE:HG22	1.70	0.73
7:cA:490:SER:O	7:cA:496:ARG:NH1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fS:375:ALA:HB1	8:fS:411:PRO:HB3	1.71	0.73
8:fs:349:VAL:HG22	8:fs:392:ILE:HD11	1.70	0.73
9:gH:204:HIS:NE2	9:gH:224:GLN:OE1	2.21	0.73
1:Sz:497:ASN:H	1:Sz:500:TYR:HB2	1.52	0.73
5:Yc:182:GLN:HB3	5:Yc:187:ILE:HG13	1.70	0.73
5:Yx:202:PHE:HB3	5:Yx:209:VAL:HG22	1.71	0.73
7:b0:400:ARG:NH1	7:b0:403:CYS:SG	2.59	0.73
7:cA:228:GLY:HA2	7:cA:345:SER:HB3	1.70	0.73
1:S0:291:ARG:NH2	1:S5:269:ALA:O	2.22	0.73
4:Wl:20:ARG:HB3	5:YX:1003:GLN:HG3	1.71	0.73
4:Xl:326:MET:HG3	4:Xl:327:PRO:HD3	1.69	0.73
5:Yc:425:ARG:NH2	5:Yc:447:ASN:OD1	2.22	0.73
7:b8:57:PRO:HB3	7:b8:62:ALA:HA	1.69	0.73
7:cA:121:VAL:HG22	7:cA:166:ASN:HB3	1.71	0.73
7:cI:455:LYS:HD2	7:cI:457:GLN:HB2	1.71	0.73
1:S1:147:LEU:HD23	1:S1:164:LYS:HG3	1.69	0.73
1:SA:167:GLN:HG3	1:SA:168:LEU:HG	1.69	0.73
1:SQ:233:GLN:HE22	1:SQ:252:GLY:HA3	1.54	0.73
2:Td:163:SER:HB3	2:Th:168:PHE:HA	1.70	0.73
7:dW:601:ILE:HD12	7:dW:629:ILE:HD12	1.70	0.73
1:S1:512:THR:HA	1:S2:442:MET:HA	1.71	0.72
1:S2:192:GLN:HB2	1:S3:188:GLN:HG3	1.71	0.72
2:TF:53:GLY:HA2	2:TF:59:GLN:H	1.53	0.72
2:Td:247:ASP:OD2	2:Td:251:ASN:ND2	2.23	0.72
4:XI:326:MET:HE1	4:XJ:264:ARG:HB3	1.70	0.72
4:Xk:38:GLY:HA2	4:Xk:43:PRO:HA	1.69	0.72
4:Xl:496:ASP:HB3	4:Xl:500:ALA:HB2	1.71	0.72
5:Yx:712:ASN:HD21	5:Yx:720:ARG:HG3	1.54	0.72
7:cE:209:ASP:OD1	7:cE:209:ASP:N	2.22	0.72
7:cE:246:LYS:HB2	7:cE:250:ALA:HB2	1.71	0.72
11:hv:114:ARG:HG2	11:hv:126:GLU:HG3	1.70	0.72
12:iD:104:ILE:HD13	16:pB:150:LEU:HD11	1.71	0.72
2:T6:61:ILE:HG13	2:T8:38:ILE:HG12	1.69	0.72
4:Wk:551:ILE:HG13	4:Wo:568:LYS:HG2	1.71	0.72
4:Xm:10:VAL:HG21	5:Yy:976:SER:HB2	1.70	0.72
5:Yy:307:ILE:HA	5:Yy:391:ARG:HH12	1.53	0.72
5:Yy:1019:PRO:HG3	6:aa:93:ARG:HH11	1.54	0.72
1:S3:497:ASN:H	1:S3:500:TYR:HB2	1.54	0.72
5:Yx:105:THR:OG1	5:Yx:626:GLN:NE2	2.22	0.72
8:fA:67:ILE:HG13	8:fB:67:ILE:HG21	1.69	0.72
8:fA:393:LYS:HG3	8:fA:406:PRO:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sx:357:ASP:OD1	1:Sz:339:ARG:NH2	2.23	0.72
1:Sy:5:THR:O	4:Wo:196:ARG:NH1	2.23	0.72
2:Td:166:SER:O	2:Td:171:LYS:NZ	2.22	0.72
3:Vs:17:PHE:O	3:Vu:13:ARG:NH2	2.22	0.72
4:WJ:18:TYR:HB2	4:WJ:21:LYS:HB2	1.70	0.72
4:Wn:8:GLY:HA3	4:Wn:15:THR:HG23	1.71	0.72
4:Xn:454:TYR:O	4:Xn:600:ARG:NH1	2.22	0.72
5:YC:182:GLN:HB3	5:YC:187:ILE:HG13	1.71	0.72
5:YC:255:TYR:HB3	5:YC:297:TYR:HB2	1.71	0.72
5:YC:436:THR:HG22	5:YC:441:VAL:HA	1.70	0.72
5:Yc:38:ILE:HD11	5:Yc:59:LEU:HG	1.70	0.72
5:Yc:143:MET:HG2	5:Yc:544:VAL:HG12	1.70	0.72
7:dS:637:TYR:HB2	15:nT:103:THR:HG22	1.69	0.72
4:Wn:335:ASP:OD1	4:Wn:335:ASP:N	2.21	0.72
4:Xj:290:SER:HA	4:Xj:371:PHE:H	1.54	0.72
4:Xn:275:SER:HA	4:Xn:280:ILE:HB	1.72	0.72
11:hf:114:ARG:HG2	11:hf:126:GLU:HG3	1.70	0.72
1:SP:33:GLN:NE2	1:SQ:19:ASP:O	2.21	0.72
1:Sv:4:ASN:O	1:Sv:15:TYR:OH	2.07	0.72
4:Wm:215:PRO:HG3	4:Wm:226:ASP:HB2	1.72	0.72
4:XK:3:GLN:HG3	4:XK:25:LYS:HG3	1.71	0.72
4:XK:323:THR:N	4:XK:358:VAL:O	2.23	0.72
8:fS:645:ASP:OD1	8:fS:645:ASP:N	2.22	0.72
8:fW:157:LYS:O	8:fW:158:ASN:ND2	2.15	0.72
8:fr:200:TYR:HB2	8:fr:269:VAL:HG13	1.72	0.72
8:fs:418:THR:HG22	8:fs:482:ILE:HG22	1.71	0.72
15:m1:19:TRP:O	15:m1:20:ASN:ND2	2.23	0.72
1:S2:118:PRO:HB3	1:S3:106:ALA:HA	1.71	0.72
4:WK:193:VAL:HG13	4:WK:199:GLU:HB3	1.72	0.72
4:XK:326:MET:HG3	4:XK:327:PRO:HD3	1.70	0.72
5:YY:182:GLN:HB3	5:YY:187:ILE:HG13	1.71	0.72
7:cG:66:MET:HG2	7:cG:468:VAL:HG21	1.71	0.72
8:fS:385:THR:HG23	8:fS:388:GLN:HB2	1.72	0.72
11:hu:25:ILE:O	11:hu:27:TYR:N	2.23	0.72
1:S4:4:ASN:O	1:S4:15:TYR:OH	2.08	0.72
4:XI:276:LEU:HB2	4:XI:280:ILE:HB	1.72	0.72
5:YC:216:GLY:HA2	5:YC:219:TRP:HE1	1.55	0.72
8:fB:157:LYS:H	8:fB:157:LYS:HZ3	1.38	0.72
8:fU:466:THR:HG22	8:fs:466:THR:HG22	1.70	0.72
9:gE:214:MET:O	9:gE:218:ASN:ND2	2.22	0.72
11:hn:114:ARG:HG2	11:hn:126:GLU:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:pA:46:ASN:ND2	16:pA:54:VAL:O	2.20	0.72
1:Sy:8:HIS:HB3	4:Wo:196:ARG:HH11	1.53	0.72
3:UN:196:LEU:HB2	3:UN:214:HIS:HB2	1.72	0.72
3:VL:171:TYR:HB2	4:XK:339:GLU:HB2	1.72	0.72
5:YY:559:GLU:HG2	5:YY:568:ILE:HG12	1.70	0.72
5:Yc:589:LYS:NZ	5:Yc:593:GLU:OE1	2.22	0.72
7:cF:57:PRO:HB3	7:cF:62:ALA:HA	1.71	0.72
8:fR:200:TYR:HB2	8:fR:269:VAL:HG13	1.72	0.72
12:iC:158:PRO:HB3	12:iC:285:GLU:HB2	1.72	0.72
1:SA:173:ILE:HG12	1:Sy:173:ILE:HG23	1.72	0.72
1:Sv:61:PRO:HB3	1:Sv:74:LYS:HD3	1.72	0.72
1:Sw:117:THR:HG23	1:Sw:120:LYS:H	1.55	0.72
4:Xj:279:SER:HB2	4:Xn:326:MET:HB2	1.72	0.72
7:dW:456:TYR:HB2	7:dW:504:LYS:HG2	1.72	0.72
8:fA:543:THR:HG22	8:fA:552:LYS:H	1.55	0.72
9:gE:4:ILE:HG12	12:iC:276:VAL:HG22	1.71	0.72
9:gH:4:ILE:HG12	12:iF:276:VAL:HG22	1.72	0.72
11:hl:114:ARG:HG2	11:hl:126:GLU:HG3	1.71	0.72
15:m6:6:LYS:O	15:m6:125:GLN:NE2	2.23	0.72
17:q3:200:GLN:HB3	17:q3:215:MET:HE2	1.70	0.72
1:S6:57:ILE:HG22	1:S8:55:LYS:HB3	1.72	0.71
1:SP:486:ASP:HB2	1:SQ:444:TYR:HB2	1.71	0.71
4:Wl:496:ASP:HB3	4:Wl:500:ALA:HB2	1.71	0.71
4:XK:146:VAL:HG21	4:XK:149:LYS:HD3	1.71	0.71
5:YY:404:TYR:HB2	5:YY:413:TRP:HE3	1.54	0.71
7:cA:57:PRO:HB3	7:cA:62:ALA:HA	1.72	0.71
1:S2:57:ILE:HG22	1:S3:55:LYS:HB3	1.71	0.71
1:Sx:166:GLN:HE22	1:Sz:153:GLY:H	1.38	0.71
4:Wo:263:ILE:HG22	4:Wo:381:ILE:HB	1.71	0.71
4:Xl:10:VAL:HG21	5:Yx:976:SER:HB2	1.71	0.71
7:cK:400:ARG:NH1	7:cK:403:CYS:SG	2.64	0.71
8:fW:83:ALA:O	8:fW:326:ARG:NH2	2.23	0.71
11:hz:19:ASN:OD1	11:hz:19:ASN:N	2.23	0.71
15:m5:74:GLU:HG3	15:m5:93:VAL:HB	1.72	0.71
4:Wk:187:ASN:ND2	4:Wk:247:PHE:O	2.23	0.71
4:Xm:359:GLU:HB3	4:Xm:370:HIS:HB3	1.71	0.71
7:bO:133:GLU:HB3	7:bO:141:LYS:HB2	1.70	0.71
7:bY:265:ALA:O	7:bY:269:PHE:HB2	1.90	0.71
11:hi:113:VAL:HG13	11:hi:127:ILE:HG23	1.73	0.71
15:mT:6:LYS:O	15:mT:125:GLN:NE2	2.24	0.71
1:S4:199:VAL:HG21	1:S4:214:THR:HB	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:303:GLU:HA	1:Sw:309:ALA:HB3	1.73	0.71
1:Sx:57:ILE:HG22	1:Sz:55:LYS:HB3	1.71	0.71
2:T7:201:LYS:HB3	2:T7:280:ALA:HB3	1.71	0.71
2:TF:247:ASP:OD2	2:TF:251:ASN:ND2	2.23	0.71
4:Wj:193:VAL:HG13	4:Wj:199:GLU:HB3	1.72	0.71
4:XK:454:TYR:O	4:XK:600:ARG:NH1	2.22	0.71
7:b6:400:ARG:NH1	7:b6:403:CYS:SG	2.63	0.71
7:cO:563:ASN:ND2	7:cO:591:TYR:OH	2.21	0.71
11:hl:25:ILE:O	11:hl:27:TYR:N	2.23	0.71
11:ht:113:VAL:HG13	11:ht:127:ILE:HG23	1.71	0.71
16:o0:46:ASN:ND2	16:o0:54:VAL:O	2.23	0.71
1:S4:497:ASN:H	1:S4:500:TYR:HB2	1.56	0.71
1:SO:269:ALA:O	1:SQ:291:ARG:NH2	2.23	0.71
1:Sv:199:VAL:HA	1:Sz:212:PRO:HB3	1.71	0.71
2:Tf:18:ALA:HB3	2:Tf:23:ILE:HG23	1.73	0.71
3:Vr:17:PHE:O	3:Vt:13:ARG:NH2	2.23	0.71
4:Wm:265:LEU:HB3	4:Wm:281:TYR:HB3	1.72	0.71
4:XJ:454:TYR:O	4:XJ:600:ARG:NH1	2.22	0.71
5:Yy:308:ALA:HA	5:Yy:322:ALA:HB2	1.72	0.71
8:fW:72:ASN:HB2	14:k4:28:ILE:HG22	1.72	0.71
11:hr:114:ARG:HG2	11:hr:126:GLU:HG3	1.70	0.71
1:S6:117:THR:HG23	1:S6:120:LYS:H	1.54	0.71
1:SA:192:GLN:HB2	1:Sw:188:GLN:HG3	1.72	0.71
3:Ur:52:ILE:HG23	3:Ut:56:ILE:HD11	1.72	0.71
3:VL:42:GLN:HB3	3:VL:47:PHE:HB3	1.73	0.71
4:Wj:496:ASP:HB3	4:Wj:500:ALA:HB2	1.72	0.71
4:Wk:150:GLN:HE21	4:Wk:153:LYS:HB3	1.55	0.71
4:XJ:496:ASP:HB3	4:XJ:500:ALA:HB2	1.72	0.71
5:YX:733:ASP:OD1	5:YX:733:ASP:N	2.23	0.71
5:YY:507:LYS:HG3	5:YY:511:GLU:H	1.55	0.71
5:YY:887:GLY:H	8:fs:364:THR:HB	1.56	0.71
15:m5:75:ARG:HH12	16:o1:269:LYS:HE2	1.55	0.71
16:o2:112:SER:O	16:o2:114:ASN:ND2	2.23	0.71
1:S4:117:THR:HG23	1:S4:120:LYS:H	1.56	0.71
1:SO:451:PHE:HZ	1:SO:471:THR:HG22	1.55	0.71
1:Sy:221:THR:HG23	1:Sy:224:TYR:H	1.53	0.71
1:Sz:117:THR:HG23	1:Sz:120:LYS:H	1.55	0.71
3:Ur:17:PHE:O	3:Ut:13:ARG:NH2	2.23	0.71
4:WI:109:LEU:HB3	4:WI:124:VAL:HG23	1.71	0.71
4:Xm:11:VAL:HG13	4:Xo:20:ARG:HG2	1.70	0.71
5:YY:307:ILE:HA	5:YY:391:ARG:HH12	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b9:455:LYS:NZ	7:b9:457:GLN:OE1	2.24	0.71
7:cO:571:ARG:NH2	7:cO:587:GLU:OE1	2.23	0.71
8:fA:119:ASN:ND2	8:fA:159:ASN:OD1	2.23	0.71
8:fU:588:LYS:NZ	8:fU:590:TYR:OH	2.21	0.71
11:hv:23:VAL:HG11	11:hv:39:THR:HG21	1.72	0.71
2:T3:36:ASN:O	2:T3:40:ASN:ND2	2.23	0.71
4:WK:322:GLY:HA2	4:WK:360:THR:H	1.55	0.71
4:Wl:215:PRO:HG3	4:Wl:226:ASP:HB2	1.71	0.71
4:Xj:10:VAL:HG23	4:Xj:11:VAL:HG23	1.72	0.71
4:Xk:472:TYR:HA	4:Xm:416:ILE:HG23	1.71	0.71
4:Xl:215:PRO:HG3	4:Xl:226:ASP:HB2	1.71	0.71
4:Xl:454:TYR:O	4:Xl:600:ARG:NH1	2.21	0.71
4:Xm:109:LEU:HB3	4:Xm:124:VAL:HG23	1.73	0.71
5:YC:312:THR:HG23	5:YC:370:SER:HB2	1.72	0.71
7:bR:133:GLU:HB3	7:bR:141:LYS:HB2	1.72	0.71
17:q4:14:ALA:O	17:q9:166:SER:OG	2.06	0.71
2:T9:199:MET:HG2	2:T9:282:GLN:HB3	1.71	0.71
4:Wn:3:GLN:HG3	4:Wn:25:LYS:HG3	1.72	0.71
4:XK:335:ASP:OD1	4:XK:335:ASP:N	2.23	0.71
4:Xk:200:LEU:HD23	4:Xk:210:SER:HA	1.72	0.71
5:YX:42:LYS:NZ	5:YX:47:GLU:OE1	2.24	0.71
5:YX:646:ARG:NH1	5:YX:673:GLN:OE1	2.24	0.71
5:YX:917:LYS:HG3	5:YX:989:LEU:HD13	1.71	0.71
5:Yy:646:ARG:NH1	5:Yy:673:GLN:OE1	2.24	0.71
7:b5:495:ASN:N	7:b5:495:ASN:OD1	2.24	0.71
7:cO:400:ARG:NH1	7:cO:403:CYS:SG	2.62	0.71
8:fS:253:THR:OG1	8:fS:254:ALA:N	2.24	0.71
11:hu:17:ARG:HG3	11:hu:20:LEU:HD12	1.71	0.71
1:S1:212:PRO:HB3	1:S2:199:VAL:HA	1.73	0.71
1:S1:424:ARG:O	1:S2:504:ARG:NH2	2.24	0.71
4:Wl:200:LEU:HD23	4:Wl:210:SER:HA	1.71	0.71
4:WJ:304:ILE:HG13	4:WJ:386:PHE:H	1.56	0.71
7:b9:110:TYR:H	7:b9:138:GLY:HA3	1.55	0.71
7:dT:153:LYS:NZ	8:eB:298:ILE:O	2.24	0.71
15:m1:47:ARG:HG3	15:m1:53:PHE:HB3	1.73	0.71
1:S5:117:THR:HG23	1:S5:120:LYS:H	1.56	0.70
1:SA:444:TYR:HB2	1:Sy:486:ASP:HB2	1.72	0.70
1:Sv:194:ALA:HB2	1:Sv:208:TYR:HB3	1.72	0.70
4:Wl:310:GLU:HB2	4:Wl:384:THR:HB	1.73	0.70
4:XJ:215:PRO:HG3	4:XJ:226:ASP:HB2	1.72	0.70
4:Xj:9:ASN:O	4:Xj:11:VAL:N	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xn:8:GLY:HA3	4:Xn:15:THR:HG23	1.70	0.70
5:YX:105:THR:OG1	5:YX:626:GLN:NE2	2.18	0.70
5:Yc:182:GLN:NE2	5:Yc:185:LYS:O	2.24	0.70
7:b8:487:THR:HG21	7:b8:559:MET:HE3	1.72	0.70
7:cI:400:ARG:NH1	7:cI:403:CYS:SG	2.64	0.70
8:fU:157:LYS:O	8:fU:158:ASN:ND2	2.24	0.70
11:hw:25:ILE:O	11:hw:27:TYR:N	2.24	0.70
1:SP:405:ARG:HD2	1:SP:430:THR:HB	1.71	0.70
3:UL:65:LYS:O	3:UL:217:ARG:NH1	2.24	0.70
3:UN:174:TYR:H	4:WJ:340:VAL:HG21	1.54	0.70
3:Vu:174:TYR:H	4:Xm:340:VAL:HG21	1.55	0.70
5:YY:298:ALA:HA	5:YY:347:GLU:HB3	1.71	0.70
5:YY:782:VAL:HG21	5:YY:859:ARG:HB3	1.74	0.70
5:Yc:42:LYS:NZ	5:Yc:47:GLU:OE1	2.24	0.70
5:Yc:646:ARG:NH1	5:Yc:673:GLN:OE1	2.23	0.70
8:eB:582:ASN:OD1	8:eB:586:ARG:NH1	2.24	0.70
11:hl:82:ARG:HH12	11:hl:138:GLY:HA2	1.56	0.70
11:hp:114:ARG:HG2	11:hp:126:GLU:HG3	1.74	0.70
17:q4:200:GLN:HB3	17:q4:215:MET:HE2	1.73	0.70
1:Sx:117:THR:HG23	1:Sx:120:LYS:H	1.57	0.70
4:Xo:263:ILE:HG22	4:Xo:381:ILE:HB	1.72	0.70
5:Yy:4:LYS:HA	5:Yy:90:GLU:HB3	1.73	0.70
7:bO:400:ARG:NH1	7:bO:403:CYS:SG	2.64	0.70
7:cF:365:ARG:HA	7:cF:400:ARG:HH21	1.56	0.70
7:cI:490:SER:O	7:cI:496:ARG:NH1	2.24	0.70
7:dU:459:ASP:OD2	7:dU:466:ARG:NH1	2.24	0.70
8:eB:119:ASN:OD1	8:eB:159:ASN:ND2	2.23	0.70
8:fR:281:ASN:ND2	8:fR:315:GLY:O	2.23	0.70
8:fS:264:GLN:HB3	8:fU:35:GLU:HG3	1.73	0.70
1:S1:194:ALA:HB2	1:S1:208:TYR:HB3	1.73	0.70
3:Vp:13:ARG:NH2	3:Vt:17:PHE:O	2.24	0.70
4:Wm:11:VAL:HG13	4:Wo:20:ARG:HG2	1.72	0.70
4:XJ:9:ASN:O	4:XK:20:ARG:NH2	2.24	0.70
5:Yy:723:VAL:HG13	8:fW:257:ILE:HD11	1.73	0.70
7:b3:645:THR:OG1	7:b8:629:ILE:O	2.08	0.70
7:dU:153:LYS:NZ	8:eU:298:ILE:O	2.24	0.70
8:fA:40:GLN:O	8:fA:42:GLU:N	2.24	0.70
8:fU:169:GLN:HE21	8:fU:276:ASN:H	1.38	0.70
16:o2:130:PRO:O	16:o2:209:TRP:NE1	2.23	0.70
1:S1:117:THR:HG23	1:S1:120:LYS:H	1.55	0.70
4:Wm:192:ARG:O	4:Wm:244:ILE:HA	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:216:GLY:HA2	4:XI:231:ARG:HD2	1.73	0.70
5:Yc:798:ILE:HG12	5:Yc:811:VAL:HG12	1.73	0.70
5:Yx:182:GLN:HB3	5:Yx:187:ILE:HG13	1.74	0.70
8:fW:425:ALA:O	8:fW:427:ASN:N	2.25	0.70
12:iD:264:PRO:HB2	12:iD:290:ASN:HB3	1.73	0.70
15:m6:65:MET:HE3	15:m6:99:TYR:HA	1.72	0.70
1:S1:61:PRO:HB3	1:S1:74:LYS:HD3	1.74	0.70
1:S1:319:VAL:HG13	1:S3:313:ALA:HB3	1.73	0.70
1:Sv:504:ARG:NH2	1:Sz:424:ARG:O	2.25	0.70
2:TF:163:SER:HB3	2:TH:168:PHE:HA	1.72	0.70
4:Xo:558:ASP:N	4:Xo:558:ASP:OD1	2.25	0.70
5:YC:106:ASN:ND2	5:YC:130:ASN:OD1	2.25	0.70
7:b8:247:GLY:HA2	7:b8:266:LYS:HG3	1.73	0.70
7:cA:209:ASP:OD1	7:cA:209:ASP:N	2.23	0.70
7:cH:90:LYS:NZ	7:cH:190:ASP:OD1	2.24	0.70
7:dV:490:SER:O	7:dV:496:ARG:NH1	2.25	0.70
11:he:56:ARG:NH2	11:hg:96:GLY:O	2.24	0.70
11:hg:56:ARG:NH2	11:hi:96:GLY:O	2.24	0.70
11:ht:17:ARG:HG3	11:ht:20:LEU:HD12	1.72	0.70
12:iC:95:VAL:HG22	12:iC:105:ILE:HB	1.73	0.70
1:S2:47:VAL:HG22	1:S2:57:ILE:HD12	1.72	0.70
1:Sv:102:THR:HG22	1:Sv:105:GLU:HG3	1.74	0.70
1:Sv:212:PRO:HB3	1:Sx:199:VAL:HA	1.73	0.70
3:Uq:171:TYR:HB2	4:Wo:339:GLU:HB2	1.73	0.70
4:Wj:24:ILE:HG13	4:Wn:7:ILE:HD11	1.73	0.70
7:b4:647:THR:O	7:b9:630:GLN:NE2	2.24	0.70
7:bY:624:VAL:HG12	7:cH:639:THR:HB	1.74	0.70
7:cC:110:TYR:H	7:cC:138:GLY:HA3	1.55	0.70
7:dV:256:PRO:HG2	7:dV:339:THR:H	1.56	0.70
8:fB:143:TYR:HB3	8:fB:169:GLN:HE22	1.56	0.70
8:fS:211:ARG:O	8:fS:399:TYR:OH	2.09	0.70
9:gH:295:MET:HE3	9:gH:331:ILE:HD13	1.74	0.70
11:hp:70:THR:HG22	11:hp:156:THR:HG22	1.73	0.70
12:iF:102:ASP:OD1	16:pA:194:ARG:NH1	2.23	0.70
15:nT:95:VAL:HG22	15:nT:106:VAL:HG12	1.73	0.70
16:o6:46:ASN:ND2	16:o6:54:VAL:O	2.24	0.70
17:q7:200:GLN:NE2	17:q7:202:ASN:OD1	2.25	0.70
17:q9:179:ASN:HB3	17:q9:184:PRO:HD3	1.74	0.70
2:Th:36:ASN:O	2:Th:40:ASN:ND2	2.24	0.70
5:Yx:589:LYS:NZ	5:Yx:593:GLU:OE1	2.25	0.70
7:bP:490:SER:O	7:bP:496:ARG:NH1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cA:645:THR:OG1	7:cJ:629:ILE:O	2.10	0.70
7:cD:110:TYR:H	7:cD:138:GLY:HA3	1.57	0.70
7:cE:486:GLN:NE2	11:hn:11:GLU:OE1	2.25	0.70
8:f9:522:LYS:HA	8:f9:533:ASP:HA	1.71	0.70
11:h1:25:ILE:O	11:h1:27:TYR:N	2.24	0.70
11:hI:20:LEU:HA	11:hw:54:MET:HE3	1.74	0.70
12:iC:102:ASP:OD1	16:o0:194:ARG:NH1	2.23	0.70
14:k7:31:ASN:OD1	14:k7:31:ASN:N	2.25	0.70
1:S1:504:ARG:NH2	1:S3:424:ARG:O	2.24	0.70
2:T5:163:SER:HB3	2:T9:168:PHE:HA	1.73	0.70
4:Wl:317:LEU:HD13	4:Wn:312:ARG:HH12	1.55	0.70
4:Wm:304:ILE:HG13	4:Wm:386:PHE:H	1.54	0.70
5:YX:182:GLN:NE2	5:YX:185:LYS:O	2.25	0.70
5:Yc:105:THR:OG1	5:Yc:626:GLN:NE2	2.20	0.70
6:aE:92:ARG:HB2	6:aE:208:ILE:HG23	1.74	0.70
7:cC:490:SER:O	7:cC:496:ARG:NH1	2.24	0.70
8:eW:122:TYR:HB3	8:eW:152:ILE:HD11	1.73	0.70
16:o6:206:VAL:HG22	16:o6:347:THR:HB	1.73	0.70
1:S4:126:ASN:OD1	1:S6:132:ARG:NH1	2.25	0.70
1:SA:13:SER:HB2	1:Sw:18:PHE:HA	1.74	0.70
2:T6:247:ASP:OD2	2:T6:251:ASN:ND2	2.25	0.70
2:TH:201:LYS:HB3	2:TH:280:ALA:HB3	1.74	0.70
4:Wl:335:ASP:OD1	4:Wl:335:ASP:N	2.21	0.70
5:Yx:613:LYS:HG3	8:fW:619:GLN:HB2	1.73	0.70
7:cN:135:ASP:HB3	7:cN:139:LYS:HB2	1.74	0.70
7:dW:379:ALA:HA	7:dW:411:ARG:HB2	1.73	0.70
8:fr:375:ALA:HB1	8:fr:411:PRO:HB3	1.74	0.70
11:hL:25:ILE:O	11:hL:27:TYR:N	2.25	0.70
1:S0:167:GLN:HG3	1:S0:168:LEU:HG	1.74	0.69
1:S1:484:THR:HG22	1:S3:449:GLY:HA2	1.74	0.69
2:T8:36:ASN:O	2:T8:40:ASN:ND2	2.23	0.69
3:Up:14:LEU:O	3:Up:17:PHE:N	2.19	0.69
3:VM:4:LEU:HD12	4:XK:318:GLN:HB3	1.74	0.69
4:Wk:265:LEU:HB3	4:Wk:281:TYR:HB3	1.73	0.69
4:XK:8:GLY:HA3	4:XK:15:THR:HG23	1.72	0.69
4:Xk:264:ARG:HA	4:Xk:379:ASP:O	1.92	0.69
7:b7:495:ASN:OD1	7:b7:495:ASN:N	2.24	0.69
7:cH:490:SER:O	7:cH:496:ARG:NH1	2.24	0.69
7:dW:153:LYS:NZ	8:fU:298:ILE:O	2.23	0.69
1:S2:6:TYR:O	4:XJ:234:GLN:NE2	2.24	0.69
3:Up:17:PHE:O	3:Ur:13:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b6:488:TRP:O	7:b6:552:ASN:ND2	2.26	0.69
7:cE:490:SER:O	7:cE:496:ARG:NH1	2.25	0.69
8:fB:98:TYR:HB2	8:fB:332:LYS:HG3	1.74	0.69
8:fU:98:TYR:HB2	8:fU:332:LYS:HG3	1.74	0.69
11:hp:25:ILE:O	11:hp:27:TYR:N	2.25	0.69
1:S2:359:TRP:NE1	1:S3:340:THR:O	2.25	0.69
1:S7:6:TYR:O	4:Xm:234:GLN:NE2	2.25	0.69
2:Ti:199:MET:HG2	2:Ti:282:GLN:HB3	1.72	0.69
4:Wo:3:GLN:HG3	4:Wo:25:LYS:HG3	1.74	0.69
4:Xm:198:ASN:ND2	4:Xo:243:GLN:OE1	2.25	0.69
7:b8:400:ARG:NH1	7:b8:403:CYS:SG	2.65	0.69
11:hI:46:VAL:HG22	11:hI:64:ARG:HE	1.57	0.69
14:k8:47:THR:OG1	15:m5:115:ASN:O	2.09	0.69
17:q5:232:GLY:O	17:q8:20:ASN:ND2	2.25	0.69
1:S2:117:THR:HG23	1:S2:120:LYS:H	1.56	0.69
1:SQ:411:ASN:O	1:SQ:415:ASN:ND2	2.26	0.69
1:Sy:132:ARG:NH2	1:Sy:139:ASN:OD1	2.25	0.69
4:Wj:111:ALA:HB2	4:Wj:117:ILE:HG23	1.72	0.69
4:Wm:176:ASP:HB3	4:Wm:231:ARG:HG3	1.74	0.69
4:Wn:102:TRP:HZ3	4:Wn:131:SER:HB2	1.56	0.69
4:Xj:152:ASP:H	4:Xn:146:VAL:HG12	1.56	0.69
4:Xl:310:GLU:HB2	4:Xl:384:THR:HB	1.74	0.69
7:bR:265:ALA:O	7:bR:269:PHE:HB2	1.93	0.69
7:cL:400:ARG:NH1	7:cL:402:ASP:OD1	2.25	0.69
1:SO:18:PHE:HA	1:SQ:13:SER:HB2	1.75	0.69
1:SO:291:ARG:NH2	1:SP:269:ALA:O	2.26	0.69
4:Wk:9:ASN:O	4:Wk:11:VAL:N	2.21	0.69
4:Xn:326:MET:HG3	4:Xn:327:PRO:HD3	1.74	0.69
5:YC:154:SER:O	5:YC:156:SER:N	2.26	0.69
5:Yc:1020:ARG:NH2	6:aD:94:ASP:OD2	2.26	0.69
5:Yx:425:ARG:NH2	5:Yx:447:ASN:OD1	2.23	0.69
7:b3:400:ARG:NH1	7:b3:403:CYS:SG	2.65	0.69
7:b3:560:LEU:HD21	7:b3:601:ILE:HD11	1.72	0.69
7:b9:121:VAL:HG22	7:b9:166:ASN:HB3	1.74	0.69
7:dV:112:VAL:HG13	7:dV:134:VAL:HG22	1.74	0.69
17:q3:14:ALA:O	17:q7:166:SER:OG	2.08	0.69
17:q5:179:ASN:HB3	17:q5:184:PRO:HD3	1.74	0.69
17:q5:254:ASP:N	17:q5:254:ASP:OD1	2.25	0.69
1:SO:314:ASN:HB2	1:SQ:307:THR:HG23	1.75	0.69
3:VL:17:PHE:O	3:VM:13:ARG:NH2	2.25	0.69
4:WI:323:THR:N	4:WI:358:VAL:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wj:290:SER:HA	4:Wj:371:PHE:H	1.56	0.69
4:Wj:316:ILE:HG23	4:Wl:315:GLY:HA3	1.75	0.69
4:Wn:146:VAL:HG21	4:Wn:149:LYS:HD3	1.74	0.69
4:XK:63:GLU:HG2	4:XK:66:LYS:HD3	1.74	0.69
5:Yy:681:THR:O	5:Yy:685:ASN:HB2	1.92	0.69
7:b6:26:THR:HA	7:b6:77:ASP:O	1.93	0.69
7:b6:209:ASP:OD1	7:b6:209:ASP:N	2.26	0.69
7:b7:12:GLU:OE2	7:cA:561:LYS:NZ	2.24	0.69
7:bN:209:ASP:OD1	7:bN:209:ASP:N	2.25	0.69
7:bQ:256:PRO:HG2	7:bQ:339:THR:H	1.57	0.69
7:cI:166:ASN:OD1	7:cI:166:ASN:N	2.26	0.69
11:hK:25:ILE:O	11:hK:27:TYR:N	2.25	0.69
16:o2:46:ASN:ND2	16:o2:54:VAL:O	2.25	0.69
1:S7:8:HIS:HB3	4:Xo:196:ARG:HH11	1.57	0.69
1:S7:9:VAL:HG22	4:Xo:196:ARG:HH12	1.58	0.69
4:Wj:118:LYS:NZ	4:Wj:145:TYR:O	2.22	0.69
4:Wj:195:HIS:NE2	4:Wj:236:CYS:SG	2.66	0.69
5:Yc:714:TYR:HE2	5:Yc:723:VAL:HG21	1.57	0.69
5:Yc:737:THR:HG22	8:fB:337:GLN:HB2	1.75	0.69
6:ac:92:ARG:HB2	6:ac:208:ILE:HG23	1.75	0.69
7:cG:400:ARG:NH1	7:cG:403:CYS:SG	2.64	0.69
8:fs:522:LYS:HA	8:fs:533:ASP:HA	1.74	0.69
14:k4:59:LEU:HD22	14:k4:86:TRP:HH2	1.57	0.69
1:S4:424:ARG:O	1:S6:504:ARG:NH2	2.26	0.69
1:Sv:486:ASP:HB2	1:Sx:444:TYR:HB2	1.73	0.69
2:Tf:168:PHE:HA	2:Th:163:SER:HB3	1.73	0.69
3:Up:206:GLN:NE2	3:Ut:196:LEU:O	2.26	0.69
3:Ur:65:LYS:O	3:Ur:217:ARG:NH1	2.25	0.69
4:Wl:43:PRO:HG2	4:WK:36:GLU:HG3	1.74	0.69
4:WK:8:GLY:HA3	4:WK:15:THR:HG23	1.75	0.69
4:Wk:472:TYR:HA	4:Wm:416:ILE:HG23	1.74	0.69
4:Wm:290:SER:HA	4:Wm:371:PHE:H	1.56	0.69
4:Xk:10:VAL:HG23	4:Xk:11:VAL:HG23	1.75	0.69
5:YX:782:VAL:HG21	5:YX:859:ARG:HB3	1.75	0.69
5:Yc:331:THR:O	5:Yc:348:ARG:NH2	2.23	0.69
5:Yc:404:TYR:HB2	5:Yc:413:TRP:HE3	1.58	0.69
5:Yx:182:GLN:NE2	5:Yx:185:LYS:O	2.24	0.69
5:Yy:782:VAL:HG21	5:Yy:859:ARG:HB3	1.74	0.69
7:b3:495:ASN:OD1	7:b3:495:ASN:N	2.26	0.69
7:cD:23:SER:OG	7:cD:74:TYR:O	2.11	0.69
7:cF:202:GLU:OE1	7:cF:203:ALA:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:571:ARG:NH2	7:cH:587:GLU:OE1	2.25	0.69
7:cK:166:ASN:OD1	7:cK:166:ASN:N	2.24	0.69
7:cO:487:THR:HG21	7:cO:559:MET:HE3	1.75	0.69
8:fR:375:ALA:HB1	8:fR:411:PRO:HB3	1.74	0.69
8:fS:522:LYS:HA	8:fS:533:ASP:HA	1.73	0.69
8:fU:194:ARG:NH2	8:fU:228:GLU:OE1	2.25	0.69
8:fW:555:ILE:HB	8:fW:592:ILE:HD11	1.73	0.69
9:gG:375:LEU:HD22	9:gG:455:LYS:HD3	1.75	0.69
11:hm:25:ILE:O	11:hm:27:TYR:N	2.25	0.69
11:hn:25:ILE:O	11:hn:27:TYR:N	2.26	0.69
12:iC:14:VAL:HG22	12:iC:72:ILE:HG12	1.74	0.69
12:iD:41:ARG:HG3	13:jb:576:THR:HG21	1.75	0.69
17:q4:111:ILE:O	17:q4:115:ASN:ND2	2.26	0.69
1:S0:151:LEU:HB2	1:S0:168:LEU:HD13	1.74	0.69
1:S4:476:ASP:O	1:S4:479:ASN:ND2	2.26	0.69
1:SP:9:VAL:HG22	4:WK:196:ARG:HH12	1.57	0.69
1:Sv:424:ARG:O	1:Sx:504:ARG:NH2	2.25	0.69
1:Sx:192:GLN:HB2	1:Sz:188:GLN:HG3	1.75	0.69
1:Sy:411:ASN:O	1:Sy:415:ASN:ND2	2.26	0.69
2:T2:18:ALA:HB3	2:T2:23:ILE:HG23	1.73	0.69
2:TF:209:VAL:HA	2:TF:273:ARG:HH12	1.58	0.69
2:Te:64:THR:HA	2:Tg:84:ARG:HE	1.58	0.69
2:Te:247:ASP:OD2	2:Te:251:ASN:ND2	2.26	0.69
2:Tf:247:ASP:OD2	2:Tf:251:ASN:ND2	2.26	0.69
3:Vq:65:LYS:O	3:Vq:217:ARG:NH1	2.26	0.69
4:Wl:190:ASN:HB2	4:Wl:247:PHE:HB3	1.74	0.69
4:Xn:323:THR:N	4:Xn:358:VAL:O	2.25	0.69
5:YY:646:ARG:NH1	5:YY:673:GLN:OE1	2.26	0.69
7:bO:593:GLN:NE2	17:q9:5:GLU:OE2	2.26	0.69
14:k8:59:LEU:HD22	14:k8:86:TRP:HH2	1.58	0.69
2:T5:53:GLY:HA2	2:T5:59:GLN:H	1.58	0.69
4:Wm:186:TYR:HD1	4:Wm:227:GLY:HA2	1.58	0.69
4:Xk:18:TYR:HA	5:Yy:1000:THR:HA	1.72	0.69
5:YX:378:LEU:HB3	5:YX:403:ILE:HB	1.74	0.69
5:Yy:425:ARG:NH2	5:Yy:447:ASN:OD1	2.26	0.69
7:b5:486:GLN:NE2	11:hk:11:GLU:OE1	2.26	0.69
7:bR:366:GLU:OE2	7:cP:514:ARG:NH1	2.26	0.69
7:bY:487:THR:HG21	7:bY:559:MET:HE3	1.73	0.69
7:cK:228:GLY:HA2	7:cK:345:SER:HB3	1.74	0.69
7:dS:459:ASP:HB2	7:dS:466:ARG:HD2	1.74	0.69
8:eW:40:GLN:HG2	8:eW:42:GLU:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eW:119:ASN:OD1	8:eW:159:ASN:ND2	2.25	0.69
11:ho:114:ARG:HG2	11:ho:126:GLU:HG3	1.75	0.69
1:S6:480:ARG:NH1	1:S8:463:THR:O	2.25	0.68
1:Sv:117:THR:HG23	1:Sv:120:LYS:H	1.57	0.68
1:Sx:359:TRP:NE1	1:Sz:340:THR:O	2.25	0.68
1:Sy:50:ALA:HA	1:Sy:56:GLY:HA3	1.75	0.68
3:Uq:85:THR:HG22	3:Uq:183:ILE:HD12	1.75	0.68
3:Vp:17:PHE:O	3:Vr:13:ARG:NH2	2.26	0.68
4:Wk:344:VAL:HG12	4:Wk:349:TRP:H	1.58	0.68
4:Wo:60:LEU:HD21	4:Wo:79:ILE:HG22	1.75	0.68
4:Xl:9:ASN:O	4:Xl:11:VAL:N	2.22	0.68
4:XJ:290:SER:HA	4:XJ:371:PHE:H	1.57	0.68
4:Xk:323:THR:N	4:Xk:358:VAL:O	2.25	0.68
6:Zc:19:GLU:O	6:Zc:23:ASN:ND2	2.27	0.68
6:aZ:282:LYS:NZ	6:aZ:289:ASN:OD1	2.24	0.68
7:bQ:455:LYS:NZ	7:bQ:457:GLN:OE1	2.26	0.68
7:bQ:490:SER:O	7:bQ:496:ARG:NH1	2.25	0.68
7:cO:110:TYR:H	7:cO:138:GLY:HA3	1.57	0.68
8:eB:311:VAL:HG11	15:nT:20:ASN:HA	1.75	0.68
8:fR:393:LYS:HG3	8:fR:406:PRO:HG2	1.74	0.68
11:he:82:ARG:HH12	11:he:138:GLY:HA2	1.58	0.68
2:T8:28:GLY:O	2:T8:32:ASN:ND2	2.25	0.68
3:VL:13:ARG:NH2	3:VN:17:PHE:O	2.25	0.68
4:WI:10:VAL:HG23	4:WI:11:VAL:HG23	1.74	0.68
4:WJ:186:TYR:HD1	4:WJ:227:GLY:HA2	1.57	0.68
4:Wl:409:SER:HA	4:Wn:407:TYR:HA	1.74	0.68
4:XJ:409:SER:HA	4:XK:407:TYR:HA	1.76	0.68
4:Xl:335:ASP:OD1	4:Xl:335:ASP:N	2.23	0.68
5:YC:507:LYS:HG3	5:YC:511:GLU:H	1.56	0.68
5:YX:312:THR:HG22	5:YX:319:TYR:HB2	1.75	0.68
5:YX:703:TYR:OH	8:fR:12:ARG:NH1	2.25	0.68
7:dS:459:ASP:OD2	7:dS:466:ARG:NH1	2.25	0.68
8:fA:174:ARG:NH1	16:o2:94:THR:OG1	2.26	0.68
8:fR:30:LYS:NZ	8:fR:58:ASP:OD1	2.25	0.68
11:hg:25:ILE:O	11:hg:27:TYR:N	2.26	0.68
11:hk:25:ILE:O	11:hk:27:TYR:N	2.26	0.68
15:m2:6:LYS:O	15:m2:125:GLN:NE2	2.25	0.68
16:o6:112:SER:O	16:o6:114:ASN:ND2	2.26	0.68
1:Sv:126:ASN:OD1	1:Sx:132:ARG:NH1	2.25	0.68
4:Wj:9:ASN:O	4:Wj:11:VAL:N	2.22	0.68
4:Wj:314:ASN:HA	4:Wj:380:ILE:HG13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:43:PRO:HG2	4:Wo:36:GLU:HG3	1.73	0.68
4:Wk:144:GLU:HB3	4:Wm:151:ILE:HG21	1.74	0.68
4:Xo:146:VAL:HG21	4:Xo:149:LYS:HD3	1.75	0.68
5:YC:408:HIS:HD2	5:YC:410:GLU:HB3	1.58	0.68
6:ZZ:89:VAL:O	6:ZZ:246:THR:OG1	2.11	0.68
7:bN:2:THR:OG1	7:bN:3:LEU:N	2.26	0.68
7:dV:142:LYS:NZ	7:dV:215:LYS:O	2.20	0.68
7:dZ:57:PRO:HB3	7:dZ:62:ALA:HA	1.74	0.68
8:eW:425:ALA:O	8:eW:427:ASN:N	2.26	0.68
8:fB:169:GLN:OE1	8:fB:276:ASN:ND2	2.26	0.68
8:fs:211:ARG:O	8:fs:399:TYR:OH	2.11	0.68
11:he:96:GLY:O	11:hi:56:ARG:NH2	2.25	0.68
17:q4:95:ARG:NH2	17:q4:183:ASP:OD2	2.26	0.68
1:SP:89:ASN:HD21	1:SP:113:GLU:HB2	1.58	0.68
1:Sv:160:MET:HA	1:Sv:164:LYS:HZ1	1.58	0.68
4:XI:117:ILE:HA	4:XI:143:TRP:HB2	1.74	0.68
4:Xn:558:ASP:OD1	4:Xn:558:ASP:N	2.26	0.68
4:Xo:103:ASN:O	4:Xo:105:ASN:N	2.26	0.68
5:YC:600:PHE:HZ	5:YC:608:VAL:HB	1.58	0.68
7:cH:488:TRP:O	7:cH:552:ASN:ND2	2.26	0.68
7:cN:400:ARG:NH1	7:cN:403:CYS:SG	2.66	0.68
8:f9:142:PRO:HD2	12:iD:371:LYS:HG3	1.75	0.68
8:f9:211:ARG:O	8:f9:399:TYR:OH	2.10	0.68
8:fS:83:ALA:O	8:fS:326:ARG:NH2	2.27	0.68
11:hh:17:ARG:HG3	11:hh:20:LEU:HD12	1.76	0.68
11:hn:54:MET:HE3	11:hv:20:LEU:HA	1.74	0.68
16:o1:112:SER:O	16:o1:114:ASN:ND2	2.26	0.68
1:S2:480:ARG:NH1	1:S3:463:THR:O	2.26	0.68
1:SA:100:TYR:HH	1:Sw:115:SER:HG	1.39	0.68
1:Sw:106:ALA:HB2	1:Sw:120:LYS:HD2	1.76	0.68
1:Sw:473:LYS:HZ1	4:WK:362:GLU:HA	1.55	0.68
4:Wl:290:SER:HA	4:Wl:371:PHE:H	1.57	0.68
4:XI:529:ASN:OD1	4:XK:577:ASN:ND2	2.27	0.68
4:XI:191:ILE:O	4:Xn:164:ARG:NH2	2.26	0.68
5:Yx:1013:LYS:HE3	5:Yx:1022:PRO:HG3	1.75	0.68
7:b5:228:GLY:HA2	7:b5:345:SER:HB3	1.74	0.68
7:b8:645:THR:OG1	7:cC:629:ILE:O	2.11	0.68
7:dS:601:ILE:HD12	7:dS:629:ILE:HD12	1.75	0.68
8:eU:213:SER:HG	8:eU:216:HIS:HD1	1.42	0.68
11:hg:17:ARG:HG3	11:hg:20:LEU:HD12	1.75	0.68
17:q3:111:ILE:O	17:q3:115:ASN:ND2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SO:117:THR:HG23	1:SO:120:LYS:H	1.59	0.68
1:Sy:99:ARG:NH1	1:Sy:100:TYR:O	2.26	0.68
2:T1:28:GLY:O	2:T1:32:ASN:ND2	2.27	0.68
2:T2:247:ASP:OD2	2:T2:251:ASN:ND2	2.26	0.68
3:VL:173:THR:HB	4:XK:339:GLU:HG2	1.75	0.68
4:Wk:20:ARG:HG2	4:Wo:11:VAL:HG13	1.76	0.68
4:Wn:323:THR:N	4:Wn:358:VAL:O	2.26	0.68
4:XI:193:VAL:HG13	4:XI:199:GLU:HB3	1.76	0.68
4:XJ:3:GLN:OE1	4:XJ:25:LYS:NZ	2.27	0.68
4:Xl:266:LEU:HD22	4:Xl:271:THR:HG23	1.74	0.68
4:Xm:304:ILE:HG13	4:Xm:386:PHE:H	1.58	0.68
8:fs:253:THR:OG1	8:fs:254:ALA:N	2.27	0.68
11:hy:25:ILE:O	11:hy:27:TYR:N	2.25	0.68
15:nT:75:ARG:HH12	16:o6:269:LYS:HE2	1.58	0.68
1:S5:291:ARG:NH2	1:S7:269:ALA:O	2.27	0.68
1:SO:309:ALA:HB3	1:SQ:303:GLU:HA	1.75	0.68
4:Wn:558:ASP:OD1	4:Wn:558:ASP:N	2.26	0.68
4:XJ:266:LEU:HD22	4:XJ:271:THR:HG23	1.75	0.68
4:Xj:43:PRO:HG2	4:Xn:36:GLU:HG3	1.76	0.68
5:Yx:625:ASN:ND2	5:Yx:627:GLU:OE2	2.26	0.68
5:Yx:867:LYS:HG2	5:Yx:893:ILE:HB	1.76	0.68
5:Yy:360:ASN:HB3	5:Yy:361:PRO:HD2	1.73	0.68
6:Za:147:LEU:HD23	6:Za:149:ASP:H	1.59	0.68
6:ab:44:SER:HB3	6:ab:76:MET:HE3	1.76	0.68
7:cG:514:ARG:NH1	7:cH:366:GLU:OE2	2.27	0.68
7:cM:90:LYS:NZ	7:cM:190:ASP:OD1	2.25	0.68
7:dW:406:LEU:HD13	7:dW:475:ALA:HB2	1.75	0.68
8:f9:157:LYS:O	8:f9:158:ASN:ND2	2.16	0.68
11:hI:39:THR:HG22	11:hI:71:VAL:HG22	1.75	0.68
17:q4:120:SER:O	17:q4:122:GLY:N	2.26	0.68
17:q9:181:VAL:HG23	17:q9:195:VAL:HG21	1.74	0.68
3:VL:206:GLN:NE2	3:VN:196:LEU:O	2.27	0.68
4:WJ:215:PRO:HG3	4:WJ:226:ASP:HB2	1.74	0.68
4:Xk:49:TRP:CG	4:Xk:67:SER:HG	2.12	0.68
5:YX:38:ILE:HD11	5:YX:59:LEU:HG	1.76	0.68
5:YX:382:GLU:N	5:YX:382:GLU:OE1	2.27	0.68
5:YY:425:ARG:NH2	5:YY:447:ASN:OD1	2.26	0.68
7:b4:57:PRO:HB3	7:b4:62:ALA:HA	1.76	0.68
7:bN:205:MET:O	7:bN:211:GLN:NE2	2.23	0.68
7:bN:265:ALA:O	7:bN:269:PHE:HB2	1.94	0.68
7:dT:90:LYS:NZ	7:dT:190:ASP:OD1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fS:197:VAL:HG23	8:fS:272:TYR:HB3	1.76	0.68
11:hf:97:ASN:HA	11:hu:3:VAL:HG12	1.74	0.68
11:hj:25:ILE:O	11:hj:27:TYR:N	2.27	0.68
11:hu:82:ARG:HH12	11:hu:138:GLY:HA2	1.58	0.68
11:hy:136:ASN:HB3	11:hy:156:THR:HG23	1.76	0.68
17:q3:120:SER:O	17:q3:122:GLY:N	2.27	0.68
1:S0:451:PHE:HZ	1:S0:471:THR:HG22	1.58	0.68
1:S1:476:ASP:O	1:S1:479:ASN:ND2	2.27	0.68
1:Sv:329:ASN:HD21	1:Sz:335:ASN:HB3	1.59	0.68
1:Sz:20:PRO:HG3	1:Sz:29:ILE:HG13	1.76	0.68
3:Uq:39:THR:OG1	3:Uq:42:GLN:OE1	2.12	0.68
4:Wo:261:ARG:HD2	4:Wo:297:GLY:HA3	1.75	0.68
4:Xk:9:ASN:O	4:Xk:11:VAL:N	2.21	0.68
5:YC:360:ASN:HB3	5:YC:361:PRO:HD2	1.76	0.68
5:YC:364:VAL:HG21	5:YC:396:ILE:HG12	1.76	0.68
5:YX:202:PHE:HB3	5:YX:209:VAL:HG22	1.76	0.68
5:YY:436:THR:HG22	5:YY:441:VAL:HA	1.76	0.68
5:Yc:723:VAL:HG22	8:fB:257:ILE:HG12	1.74	0.68
7:b6:486:GLN:NE2	11:hl:11:GLU:OE1	2.27	0.68
7:b9:209:ASP:OD1	7:b9:209:ASP:N	2.16	0.68
7:cC:432:ALA:HB2	7:cC:440:ASN:HD22	1.59	0.68
7:cO:90:LYS:NZ	7:cO:190:ASP:OD1	2.26	0.68
11:hk:56:ARG:NH2	11:hm:96:GLY:O	2.26	0.68
11:ht:25:ILE:O	11:ht:27:TYR:N	2.26	0.68
1:S0:145:SER:O	1:S0:164:LYS:NZ	2.26	0.68
1:S1:497:ASN:H	1:S1:500:TYR:HB2	1.58	0.68
1:S3:20:PRO:HG3	1:S3:29:ILE:HG13	1.75	0.68
2:TF:15:ILE:HA	2:TF:23:ILE:HD13	1.75	0.68
2:Te:209:VAL:HA	2:Te:273:ARG:HH12	1.57	0.68
3:Up:174:TYR:H	4:Wn:340:VAL:HG21	1.59	0.68
3:Ur:70:ILE:HD11	3:Ut:74:LYS:HG3	1.75	0.68
3:Us:17:PHE:O	3:Uu:13:ARG:NH2	2.27	0.68
3:VN:42:GLN:HB3	3:VN:47:PHE:HB3	1.74	0.68
4:WI:20:ARG:HG2	4:WK:11:VAL:HG13	1.77	0.68
4:Wl:323:THR:N	4:Wl:358:VAL:O	2.27	0.68
4:Xj:79:ILE:HG13	4:Xj:109:LEU:HA	1.76	0.68
7:b8:159:GLU:OE2	7:b8:166:ASN:ND2	2.27	0.68
7:bQ:459:ASP:OD2	7:bQ:466:ARG:NH1	2.27	0.68
7:cD:256:PRO:HG2	7:cD:339:THR:H	1.59	0.68
8:fr:543:THR:HG22	8:fr:552:LYS:H	1.59	0.68
9:gG:416:HIS:HD2	9:gG:418:THR:HG22	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hJ:25:ILE:O	11:hJ:27:TYR:N	2.27	0.68
12:iC:189:TRP:NE1	12:iC:191:ASP:OD2	2.23	0.68
16:o2:206:VAL:HG22	16:o2:347:THR:HB	1.76	0.68
16:o2:252:ASP:OD1	16:o2:255:ARG:NH1	2.27	0.68
1:S4:484:THR:HG22	1:S8:449:GLY:HA2	1.75	0.67
1:S7:411:ASN:O	1:S7:415:ASN:ND2	2.27	0.67
1:SO:399:PHE:HE1	1:SP:401:ARG:HB3	1.60	0.67
4:Wk:111:ALA:HB2	4:Wk:117:ILE:HG23	1.75	0.67
4:Wk:323:THR:N	4:Wk:358:VAL:O	2.27	0.67
4:Wl:9:ASN:O	4:Wn:20:ARG:NH2	2.27	0.67
4:Wl:266:LEU:HD22	4:Wl:271:THR:HG23	1.75	0.67
4:Wm:266:LEU:HD22	4:Wm:271:THR:HG23	1.75	0.67
4:Xk:92:VAL:HG12	4:Xk:136:VAL:HG12	1.75	0.67
4:Xk:245:GLU:OE1	4:Xo:192:ARG:NH2	2.27	0.67
4:Xl:194:LYS:HG2	4:Xl:198:ASN:HA	1.76	0.67
5:Yy:298:ALA:HA	5:Yy:347:GLU:HB3	1.77	0.67
7:bN:368:VAL:O	7:bN:400:ARG:NH2	2.27	0.67
7:bY:19:VAL:O	7:bY:46:ASN:ND2	2.26	0.67
7:cA:617:VAL:HG22	7:cA:622:GLU:HB2	1.77	0.67
7:cK:23:SER:OG	7:cK:74:TYR:O	2.11	0.67
7:dW:635:ILE:HG21	15:m1:104:LEU:HG	1.75	0.67
8:fA:592:ILE:HG13	8:fA:604:TRP:HB2	1.74	0.67
8:fr:349:VAL:HG22	8:fr:392:ILE:HD11	1.75	0.67
11:hv:25:ILE:O	11:hv:27:TYR:N	2.26	0.67
1:S1:102:THR:HG22	1:S1:105:GLU:HG3	1.76	0.67
2:Tg:97:ILE:HG12	2:Tg:125:GLN:HB3	1.76	0.67
3:VL:107:VAL:HG22	3:VL:174:TYR:HD2	1.58	0.67
4:Xl:9:ASN:O	4:Xn:20:ARG:NH2	2.27	0.67
5:Yx:124:GLN:O	5:Yx:128:THR:OG1	2.12	0.67
7:b8:490:SER:O	7:b8:496:ARG:NH1	2.25	0.67
11:hi:17:ARG:HG3	11:hi:20:LEU:HD12	1.74	0.67
11:hr:100:THR:OG1	11:hr:101:GLY:N	2.28	0.67
14:IV:112:HIS:HB3	14:IV:150:LEU:HD13	1.75	0.67
17:q3:257:ARG:HD3	17:q7:102:GLY:HA3	1.76	0.67
17:q5:99:SER:HB3	17:q8:215:MET:HE1	1.75	0.67
1:S1:478:ASP:OD1	1:S1:478:ASP:N	2.26	0.67
1:S1:504:ARG:NH1	1:S2:510:ASN:O	2.27	0.67
4:XI:18:TYR:HA	5:Yc:1000:THR:HA	1.76	0.67
5:YX:341:LEU:HD13	5:YX:343:PRO:HD3	1.76	0.67
6:aZ:89:VAL:O	6:aZ:246:THR:OG1	2.12	0.67
7:bY:629:ILE:O	7:cH:645:THR:OG1	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eU:157:LYS:O	8:eU:158:ASN:ND2	2.28	0.67
8:fr:21:PHE:O	8:fr:72:ASN:ND2	2.27	0.67
8:fs:21:PHE:O	8:fs:72:ASN:ND2	2.27	0.67
11:hf:56:ARG:NH2	11:hh:96:GLY:O	2.28	0.67
14:k8:40:LEU:HD21	14:k8:45:LEU:HD21	1.75	0.67
1:S4:41:PRO:O	1:S4:45:ASN:ND2	2.27	0.67
1:S4:102:THR:HG22	1:S4:105:GLU:HG3	1.76	0.67
1:S5:424:ARG:O	1:S7:504:ARG:NH2	2.27	0.67
1:SO:359:TRP:NE1	1:SP:340:THR:O	2.22	0.67
2:T6:36:ASN:OD1	2:T8:7:LYS:NZ	2.26	0.67
4:XI:111:ALA:HB2	4:XI:117:ILE:HG23	1.76	0.67
4:XK:558:ASP:OD1	4:XK:558:ASP:N	2.26	0.67
4:Xk:24:ILE:HG13	4:Xo:7:ILE:HD11	1.75	0.67
6:Zc:92:ARG:HB2	6:Zc:208:ILE:HG23	1.75	0.67
7:cF:121:VAL:HG22	7:cF:166:ASN:HB3	1.76	0.67
7:cJ:645:THR:OG1	7:cO:629:ILE:O	2.12	0.67
16:pB:46:ASN:ND2	16:pB:54:VAL:O	2.20	0.67
1:S1:473:LYS:HB3	1:S2:473:LYS:HD2	1.75	0.67
1:S7:99:ARG:NH1	1:S7:100:TYR:O	2.28	0.67
1:SP:422:LYS:NZ	1:SQ:498:SER:O	2.28	0.67
2:T3:28:GLY:O	2:T3:32:ASN:ND2	2.28	0.67
4:Xj:118:LYS:NZ	4:Xj:145:TYR:O	2.26	0.67
4:Xm:266:LEU:HD22	4:Xm:271:THR:HG23	1.76	0.67
4:Xn:261:ARG:HD2	4:Xn:297:GLY:HA3	1.75	0.67
5:YY:404:TYR:HB2	5:YY:413:TRP:CE3	2.30	0.67
5:Yc:473:TYR:OH	6:ZD:70:ASP:OD2	2.12	0.67
7:b6:159:GLU:OE1	7:b6:164:GLY:N	2.28	0.67
7:cB:205:MET:O	7:cB:211:GLN:NE2	2.27	0.67
7:dW:116:ILE:N	7:dW:129:GLY:O	2.25	0.67
8:eB:425:ALA:O	8:eB:427:ASN:N	2.27	0.67
8:fW:127:ARG:NH1	8:fW:271:GLU:OE1	2.28	0.67
11:hy:23:VAL:HG11	11:hy:39:THR:HG21	1.76	0.67
15:m5:95:VAL:HG22	15:m5:106:VAL:HG12	1.77	0.67
16:o6:252:ASP:OD1	16:o6:255:ARG:NH1	2.28	0.67
1:SP:449:GLY:HA2	1:SQ:484:THR:HG22	1.76	0.67
3:Uu:196:LEU:HB2	3:Uu:214:HIS:HB2	1.75	0.67
3:Vp:171:TYR:HB2	4:Xn:339:GLU:HB2	1.77	0.67
4:XJ:190:ASN:HB2	4:XJ:247:PHE:HB3	1.76	0.67
4:Xo:3:GLN:HG3	4:Xo:25:LYS:HG3	1.75	0.67
4:Xo:213:GLY:HA2	4:Xo:221:GLU:HB2	1.74	0.67
7:bP:209:ASP:OD1	7:bP:209:ASP:N	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:432:ALA:HB2	7:bP:440:ASN:HD22	1.58	0.67
7:bP:629:ILE:O	7:cN:645:THR:OG1	2.13	0.67
7:dU:637:TYR:HB2	15:m5:103:THR:HG22	1.75	0.67
11:hz:114:ARG:HG2	11:hz:126:GLU:HG3	1.76	0.67
14:k7:112:HIS:HB3	14:k7:150:LEU:HD13	1.76	0.67
1:S0:497:ASN:H	1:S0:500:TYR:HB2	1.59	0.67
1:SA:47:VAL:HG23	1:SA:48:PRO:HD3	1.76	0.67
1:Sv:193:LEU:HB2	1:Sx:185:GLU:HA	1.76	0.67
1:Sx:162:PRO:O	1:Sx:166:GLN:N	2.26	0.67
2:Td:28:GLY:O	2:Td:32:ASN:ND2	2.26	0.67
3:Vp:68:GLY:H	3:Vp:217:ARG:HB3	1.60	0.67
4:WK:103:ASN:O	4:WK:105:ASN:N	2.27	0.67
4:Wj:10:VAL:HG23	4:Wj:11:VAL:HG23	1.77	0.67
4:Wo:103:ASN:O	4:Wo:105:ASN:N	2.27	0.67
4:XI:214:SER:HB2	4:XI:225:LEU:HA	1.77	0.67
4:Xj:18:TYR:HA	5:Yx:1000:THR:HA	1.75	0.67
5:Yc:703:TYR:OH	8:fA:12:ARG:NH1	2.28	0.67
5:Yx:484:HIS:ND1	6:ac:232:GLN:OE1	2.27	0.67
5:Yx:723:VAL:HG13	8:fU:257:ILE:HD11	1.76	0.67
7:b0:639:THR:HB	7:cI:624:VAL:HG12	1.75	0.67
7:b3:488:TRP:O	7:b3:552:ASN:ND2	2.28	0.67
7:cH:256:PRO:HG2	7:cH:339:THR:H	1.59	0.67
8:eB:139:SER:OG	8:eB:141:ASN:OD1	2.13	0.67
8:eW:385:THR:HG23	8:eW:388:GLN:HB2	1.77	0.67
11:hp:94:GLY:HA3	11:hp:100:THR:HG23	1.75	0.67
14:k3:31:ASN:OD1	14:k3:31:ASN:N	2.20	0.67
1:S8:20:PRO:HG3	1:S8:29:ILE:HG13	1.76	0.67
4:Xm:472:TYR:HA	4:Xo:416:ILE:HG23	1.77	0.67
5:Yy:154:SER:O	5:Yy:156:SER:N	2.28	0.67
6:Zb:44:SER:HB3	6:Zb:76:MET:HE3	1.76	0.67
7:bP:368:VAL:O	7:bP:400:ARG:NH2	2.27	0.67
7:bR:432:ALA:HB2	7:bR:440:ASN:HD22	1.60	0.67
8:eU:504:GLN:NE2	8:eU:597:TYR:O	2.27	0.67
8:fS:526:PRO:O	9:gG:247:ARG:NH1	2.28	0.67
8:fs:382:LEU:O	8:fs:413:TYR:OH	2.11	0.67
11:hi:25:ILE:O	11:hi:27:TYR:N	2.26	0.67
11:hz:28:LEU:HD22	11:hz:84:LYS:HB3	1.76	0.67
14:IV:31:ASN:N	14:IV:31:ASN:OD1	2.25	0.67
1:SA:451:PHE:HZ	1:SA:471:THR:HG22	1.59	0.67
2:T9:40:ASN:O	2:T9:68:GLN:NE2	2.28	0.67
3:Vp:206:GLN:NE2	3:Vt:196:LEU:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:187:ASN:ND2	4:WI:247:PHE:O	2.27	0.67
4:WI:472:TYR:HA	4:WJ:416:ILE:HG23	1.77	0.67
4:Wj:117:ILE:HA	4:Wj:143:TRP:HB2	1.77	0.67
4:Wl:251:VAL:O	4:Wn:161:ASN:ND2	2.27	0.67
4:Wn:277:GLU:HA	4:Wn:295:ALA:HA	1.76	0.67
4:Xl:3:GLN:HG3	4:Xl:25:LYS:HG3	1.76	0.67
4:Xm:200:LEU:HD11	4:Xo:241:THR:HG21	1.77	0.67
5:YC:202:PHE:HB3	5:YC:209:VAL:HG22	1.77	0.67
5:YY:437:ASP:HB3	5:YY:523:ARG:HD3	1.77	0.67
7:cD:8:ILE:HD11	7:cL:569:LYS:HB3	1.77	0.67
7:cJ:239:VAL:HG22	7:cJ:280:ALA:HB3	1.77	0.67
7:cL:368:VAL:O	7:cL:400:ARG:NH2	2.28	0.67
8:fB:504:GLN:NE2	8:fB:597:TYR:O	2.28	0.67
1:S0:236:VAL:HG21	1:S0:249:THR:HB	1.77	0.67
2:T5:275:ALA:O	2:T7:282:GLN:NE2	2.28	0.67
3:Up:85:THR:HG22	3:Up:183:ILE:HD12	1.76	0.67
3:Uu:73:ASN:ND2	3:Uu:75:THR:OG1	2.27	0.67
4:WK:292:PRO:HA	4:WK:368:ILE:HG13	1.76	0.67
4:Wk:193:VAL:HG13	4:Wk:199:GLU:HB3	1.77	0.67
6:aZ:35:ASN:ND2	6:ab:19:GLU:OE2	2.28	0.67
7:b4:514:ARG:NH1	7:b9:366:GLU:OE2	2.28	0.67
7:b7:432:ALA:HB2	7:b7:440:ASN:HD22	1.60	0.67
7:bN:490:SER:O	7:bN:496:ARG:NH1	2.28	0.67
7:bO:19:VAL:O	7:bO:46:ASN:ND2	2.22	0.67
7:bR:11:LYS:HE3	7:bR:13:THR:HG21	1.77	0.67
7:cP:490:SER:O	7:cP:496:ARG:NH1	2.28	0.67
8:f9:526:PRO:O	9:gH:247:ARG:NH1	2.28	0.67
15:m1:95:VAL:HG22	15:m1:106:VAL:HG12	1.75	0.67
15:mT:65:MET:HE3	15:mT:99:TYR:HA	1.75	0.67
1:SA:29:ILE:HG22	1:SA:30:THR:H	1.59	0.66
1:SA:519:LEU:HA	1:Sw:434:VAL:HG13	1.76	0.66
1:Sv:33:GLN:NE2	1:Sx:19:ASP:O	2.28	0.66
1:Sv:497:ASN:H	1:Sv:500:TYR:HB2	1.58	0.66
4:Wn:261:ARG:HD2	4:Wn:297:GLY:HA3	1.76	0.66
4:XI:590:GLN:HG2	4:XK:590:GLN:HE22	1.59	0.66
4:XK:102:TRP:HZ3	4:XK:131:SER:HB2	1.59	0.66
5:YC:793:CYS:HB3	5:YC:813:ILE:HG23	1.77	0.66
7:bR:633:ARG:NH2	7:bY:305:TYR:OH	2.27	0.66
7:dV:239:VAL:HG22	7:dV:280:ALA:HB3	1.77	0.66
8:eW:545:ARG:HG3	8:eW:549:GLY:HA2	1.78	0.66
8:fB:114:CYS:SG	8:fB:115:THR:N	2.68	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hL:3:VAL:HG12	11:hw:97:ASN:HA	1.77	0.66
3:Ut:65:LYS:O	3:Ut:217:ARG:NH1	2.29	0.66
3:Vp:42:GLN:HB3	3:Vp:47:PHE:HB3	1.78	0.66
4:Wo:146:VAL:HG21	4:Wo:149:LYS:HD3	1.76	0.66
4:Wo:558:ASP:OD1	4:Wo:558:ASP:N	2.28	0.66
4:Xm:186:TYR:HD1	4:Xm:227:GLY:HA2	1.59	0.66
4:Xn:335:ASP:OD1	4:Xn:335:ASP:N	2.28	0.66
5:YC:546:GLU:CD	5:YC:547:ASN:H	2.04	0.66
5:YC:681:THR:O	5:YC:685:ASN:HB2	1.95	0.66
5:YX:507:LYS:HB2	5:YX:511:GLU:HB2	1.77	0.66
5:Yc:43:THR:O	5:Yc:44:ASN:ND2	2.28	0.66
7:bN:432:ALA:HB2	7:bN:440:ASN:HD22	1.60	0.66
7:bO:638:ILE:HG12	7:dT:623:PHE:HB3	1.77	0.66
7:cC:571:ARG:NH2	7:cC:587:GLU:OE1	2.28	0.66
7:cL:66:MET:HG2	7:cL:468:VAL:HG21	1.75	0.66
7:cP:495:ASN:OD1	7:cP:495:ASN:N	2.29	0.66
8:eW:208:ASN:HB3	8:eW:224:TYR:CZ	2.30	0.66
11:hf:113:VAL:HG13	11:hf:127:ILE:HG23	1.78	0.66
11:hw:114:ARG:HG2	11:hw:126:GLU:HG3	1.77	0.66
17:q3:106:VAL:HG21	17:q5:249:GLN:HB3	1.77	0.66
17:q8:120:SER:O	17:q8:122:GLY:N	2.28	0.66
1:SA:472:ARG:NH2	4:WJ:404:ASP:OD2	2.26	0.66
1:SQ:495:GLN:NE2	4:Xk:423:THR:O	2.25	0.66
1:Sy:9:VAL:HG22	4:Wo:196:ARG:HH12	1.60	0.66
2:TH:40:ASN:O	2:TH:68:GLN:NE2	2.27	0.66
2:Td:168:PHE:HA	2:Tf:163:SER:HB3	1.78	0.66
4:Wk:10:VAL:HG23	4:Wk:11:VAL:HG23	1.75	0.66
4:Wm:18:TYR:HA	5:YY:920:LYS:HA	1.77	0.66
4:Wo:38:GLY:HA2	4:Wo:43:PRO:HA	1.78	0.66
4:XI:192:ARG:NH2	4:XJ:245:GLU:OE1	2.28	0.66
4:XI:290:SER:HA	4:XI:371:PHE:H	1.60	0.66
4:XI:316:ILE:HG23	4:XJ:315:GLY:HA3	1.76	0.66
5:YX:43:THR:O	5:YX:44:ASN:ND2	2.28	0.66
5:YX:977:ILE:HD12	5:YX:981:GLN:HA	1.78	0.66
5:Yc:1015:ASN:ND2	5:Yc:1022:PRO:O	2.28	0.66
5:Yx:43:THR:O	5:Yx:44:ASN:ND2	2.29	0.66
6:ZE:19:GLU:O	6:ZE:23:ASN:ND2	2.27	0.66
7:b6:106:PRO:HB2	7:b6:139:LYS:HD2	1.77	0.66
7:bQ:624:VAL:HG12	7:cO:639:THR:HB	1.75	0.66
7:cJ:12:GLU:HG3	7:cN:548:PHE:HE2	1.60	0.66
8:fB:45:ASP:OD2	15:nT:87:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gG:295:MET:HE3	9:gG:331:ILE:HD13	1.76	0.66
9:gH:416:HIS:HD2	9:gH:418:THR:HG22	1.60	0.66
11:hs:25:ILE:O	11:hs:27:TYR:N	2.28	0.66
1:S2:214:THR:O	1:S2:218:SER:OG	2.14	0.66
1:Sw:451:PHE:HZ	1:Sw:471:THR:HG22	1.60	0.66
2:T4:166:SER:O	2:T4:171:LYS:NZ	2.27	0.66
2:Tg:193:HIS:HB3	2:Tg:196:GLU:HG3	1.77	0.66
2:Ti:87:ILE:HG21	2:Ti:122:LEU:HG	1.77	0.66
3:Vp:174:TYR:H	4:Xn:340:VAL:HG21	1.60	0.66
4:Wm:502:ASN:ND2	4:Wm:516:ALA:O	2.29	0.66
4:Xj:314:ASN:N	4:Xj:380:ILE:O	2.25	0.66
5:YX:473:TYR:OH	6:Za:70:ASP:OD2	2.12	0.66
5:Yy:549:PRO:O	5:Yy:552:SER:OG	2.13	0.66
5:Yy:559:GLU:HG2	5:Yy:568:ILE:HG12	1.76	0.66
7:bY:256:PRO:HG2	7:bY:339:THR:H	1.59	0.66
7:bY:459:ASP:OD2	7:bY:466:ARG:NH1	2.27	0.66
7:cP:400:ARG:NH1	7:cP:403:CYS:SG	2.68	0.66
8:fW:139:SER:OG	8:fW:141:ASN:OD1	2.13	0.66
8:fs:148:ARG:HD2	8:fs:168:ALA:HB2	1.77	0.66
11:hK:147:ASN:ND2	11:hy:63:ASP:OD2	2.27	0.66
11:hu:19:ASN:OD1	11:hu:19:ASN:N	2.27	0.66
11:hx:39:THR:HG22	11:hx:71:VAL:HG13	1.78	0.66
16:o6:322:ASP:OD1	16:o6:322:ASP:N	2.28	0.66
1:S0:173:ILE:HG12	1:S7:173:ILE:HG23	1.77	0.66
1:S0:519:LEU:HA	1:S5:434:VAL:HG13	1.78	0.66
1:S6:2:SER:N	4:Xn:239:GLY:O	2.28	0.66
4:WK:261:ARG:HD2	4:WK:297:GLY:HA3	1.76	0.66
4:Xj:92:VAL:HG12	4:Xj:136:VAL:HG12	1.76	0.66
4:Xm:3:GLN:HG3	4:Xm:25:LYS:HG3	1.76	0.66
5:YC:437:ASP:HB3	5:YC:523:ARG:HD3	1.78	0.66
5:YX:182:GLN:HB3	5:YX:187:ILE:HG13	1.76	0.66
5:Yy:182:GLN:HB3	5:Yy:187:ILE:HG13	1.76	0.66
5:Yy:182:GLN:NE2	5:Yy:185:LYS:O	2.29	0.66
7:b8:478:CYS:O	7:b8:555:ARG:NH1	2.29	0.66
7:bN:629:ILE:O	7:cL:645:THR:OG1	2.12	0.66
7:cI:612:ASN:HB3	7:cI:624:VAL:HG23	1.78	0.66
7:dT:116:ILE:HG12	7:dT:171:ILE:HG22	1.77	0.66
8:eU:157:LYS:H	8:eU:157:LYS:HZ3	1.42	0.66
8:eU:194:ARG:NH2	8:eU:228:GLU:OE1	2.28	0.66
8:fR:203:GLY:N	16:o6:97:ASN:OD1	2.28	0.66
8:fS:317:GLY:HA3	8:fS:355:SER:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:h2:96:GLY:O	11:h2:56:ARG:NH2	2.28	0.66
11:hK:114:ARG:HG2	11:hK:126:GLU:HG3	1.78	0.66
1:SO:434:VAL:HG13	1:SQ:519:LEU:HA	1.78	0.66
2:T1:213:LYS:HA	2:T1:241:GLY:HA3	1.76	0.66
4:Wl:316:ILE:HG23	4:WJ:315:GLY:HA3	1.76	0.66
4:Wl:454:TYR:O	4:Wl:600:ARG:NH1	2.25	0.66
4:Wn:322:GLY:HA2	4:Wn:360:THR:H	1.61	0.66
4:Xl:409:SER:HA	4:Xn:407:TYR:HA	1.77	0.66
7:b8:654:LEU:HD13	7:cC:605:ARG:HD3	1.76	0.66
7:bQ:629:ILE:O	7:cO:645:THR:OG1	2.12	0.66
7:cO:566:ARG:HG3	7:cO:569:LYS:HE2	1.77	0.66
8:eB:555:ILE:HB	8:eB:592:ILE:HD11	1.78	0.66
8:fR:83:ALA:O	8:fR:326:ARG:NH2	2.28	0.66
8:fS:157:LYS:O	8:fS:158:ASN:ND2	2.19	0.66
8:fW:636:ASP:OD1	8:fW:636:ASP:N	2.27	0.66
11:h2:97:ASN:HB3	11:hK:2:PHE:HB3	1.76	0.66
1:S5:118:PRO:HB3	1:S7:106:ALA:HA	1.77	0.66
1:S8:117:THR:HG23	1:S8:120:LYS:H	1.61	0.66
1:SA:498:SER:O	1:Sy:422:LYS:NZ	2.28	0.66
4:Wl:43:PRO:HG3	4:WK:33:LEU:HA	1.76	0.66
4:WJ:18:TYR:HA	5:YC:920:LYS:HA	1.76	0.66
4:Wj:18:TYR:HA	5:YX:1000:THR:HA	1.76	0.66
4:Xl:323:THR:HB	4:Xl:355:ASP:HB3	1.78	0.66
4:Xj:314:ASN:HA	4:Xj:380:ILE:HG13	1.77	0.66
4:Xl:251:VAL:O	4:Xn:161:ASN:ND2	2.26	0.66
6:ZE:92:ARG:HB2	6:ZE:208:ILE:HG23	1.77	0.66
7:b0:166:ASN:OD1	7:b0:166:ASN:N	2.26	0.66
7:b9:490:SER:O	7:b9:496:ARG:NH1	2.28	0.66
7:bP:633:ARG:NH2	7:bQ:305:TYR:OH	2.29	0.66
7:cB:209:ASP:OD1	7:cB:209:ASP:N	2.28	0.66
7:dS:406:LEU:HD13	7:dS:475:ALA:HB2	1.77	0.66
8:eU:119:ASN:OD1	8:eU:159:ASN:ND2	2.28	0.66
8:fS:340:VAL:HG13	8:fS:401:LEU:HD11	1.78	0.66
11:hJ:46:VAL:HG22	11:hJ:64:ARG:HE	1.61	0.66
11:hX:22:GLN:HB2	11:hX:116:TYR:HE2	1.61	0.66
1:S5:440:GLN:NE2	1:S7:425:LEU:O	2.29	0.66
1:S6:166:GLN:NE2	1:S8:150:ALA:O	2.28	0.66
1:SQ:61:PRO:HB3	1:SQ:74:LYS:HD3	1.78	0.66
2:T3:43:GLY:O	2:T3:68:GLN:NE2	2.29	0.66
4:WJ:323:THR:N	4:WJ:358:VAL:O	2.28	0.66
5:YX:331:THR:O	5:YX:348:ARG:NH2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b6:495:ASN:OD1	7:b6:495:ASN:N	2.28	0.66
7:bO:459:ASP:OD2	7:bO:466:ARG:NH1	2.28	0.66
7:cB:645:THR:OG1	7:cK:629:ILE:O	2.14	0.66
7:cF:432:ALA:HB2	7:cF:440:ASN:HD22	1.61	0.66
7:cM:256:PRO:HG2	7:cM:339:THR:H	1.60	0.66
7:dU:116:ILE:N	7:dU:129:GLY:O	2.27	0.66
8:f9:375:ALA:HB1	8:f9:411:PRO:HB3	1.76	0.66
11:hI:25:ILE:O	11:hI:27:TYR:N	2.29	0.66
11:hl:19:ASN:N	11:hl:19:ASN:OD1	2.28	0.66
11:hx:22:GLN:HB2	11:hx:116:TYR:HE2	1.61	0.66
1:S2:99:ARG:NH1	1:S2:100:TYR:O	2.29	0.66
1:Sz:451:PHE:HZ	1:Sz:471:THR:HG22	1.60	0.66
2:T3:53:GLY:HA2	2:T3:59:GLN:H	1.61	0.66
2:T7:28:GLY:O	2:T7:32:ASN:ND2	2.28	0.66
4:Wo:344:VAL:HG12	4:Wo:349:TRP:H	1.61	0.66
4:XJ:335:ASP:OD1	4:XJ:335:ASP:N	2.28	0.66
4:Xk:344:VAL:HG12	4:Xk:349:TRP:H	1.61	0.66
5:YC:21:VAL:HG23	5:YC:69:PHE:HB3	1.77	0.66
5:YX:798:ILE:HG12	5:YX:811:VAL:HG12	1.78	0.66
7:cE:66:MET:HG2	7:cE:468:VAL:HG21	1.77	0.66
7:cK:198:ILE:HG23	7:cK:324:PHE:HE2	1.61	0.66
7:cN:571:ARG:NH2	7:cN:587:GLU:OE1	2.29	0.66
8:eB:557:PRO:HB2	8:eB:586:ARG:HG3	1.78	0.66
8:f9:339:CYS:HB3	8:f9:348:PHE:HD2	1.61	0.66
8:fW:582:ASN:OD1	8:fW:586:ARG:NH1	2.29	0.66
17:q3:247:VAL:HG11	17:q7:185:VAL:HG12	1.77	0.66
1:S0:498:SER:O	1:S7:422:LYS:NZ	2.29	0.66
1:S7:266:THR:HB	1:S7:273:SER:HB2	1.78	0.66
1:SA:265:LEU:HD11	1:Sw:278:SER:HA	1.78	0.66
1:Sv:473:LYS:HB3	1:Sx:473:LYS:HD2	1.77	0.66
3:Vr:73:ASN:HD21	3:Vr:215:PHE:HE2	1.44	0.66
3:Vs:39:THR:OG1	3:Vs:42:GLN:OE1	2.14	0.66
4:Wn:326:MET:HG3	4:Wn:327:PRO:HD3	1.77	0.66
4:XJ:251:VAL:O	4:XK:161:ASN:ND2	2.29	0.66
4:XJ:310:GLU:HB2	4:XJ:384:THR:HB	1.78	0.66
4:XK:23:GLY:HA2	4:XK:26:ILE:HG22	1.78	0.66
7:b7:220:PRO:HG2	7:b7:338:LEU:HD11	1.76	0.66
7:b8:571:ARG:NH2	7:b8:587:GLU:OE1	2.29	0.66
7:bN:560:LEU:HD21	7:bN:601:ILE:HD11	1.78	0.66
7:bR:455:LYS:HD3	7:bR:502:VAL:HG22	1.77	0.66
7:cC:560:LEU:HD21	7:cC:601:ILE:HD11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cL:135:ASP:HB3	7:cL:139:LYS:HB2	1.77	0.66
8:eW:42:GLU:O	15:m6:25:ARG:NH2	2.28	0.66
8:fS:425:ALA:HB2	8:fS:476:ILE:HD11	1.78	0.66
8:fr:332:LYS:NZ	8:fr:351:GLU:OE1	2.28	0.66
15:nT:60:GLN:OE1	15:nT:76:ASN:ND2	2.28	0.66
17:q4:199:ILE:HG12	17:q4:218:MET:SD	2.36	0.66
1:S1:199:VAL:HA	1:S3:212:PRO:HB3	1.78	0.65
1:S5:295:ILE:HG13	1:S7:301:ARG:HB3	1.77	0.65
1:SO:510:ASN:O	1:SQ:504:ARG:NH1	2.28	0.65
4:Wj:103:ASN:O	4:Wj:105:ASN:N	2.29	0.65
4:Wo:213:GLY:HA2	4:Wo:221:GLU:HB2	1.77	0.65
4:XI:195:HIS:NE2	4:XI:236:CYS:SG	2.63	0.65
4:Xn:202:TYR:OH	4:Xn:223:VAL:O	2.13	0.65
5:YX:298:ALA:HB3	5:YX:300:LEU:HD23	1.77	0.65
5:YY:408:HIS:HD2	5:YY:410:GLU:HB3	1.61	0.65
5:Yc:793:CYS:HB3	5:Yc:813:ILE:HG23	1.78	0.65
5:Yy:43:THR:O	5:Yy:44:ASN:ND2	2.29	0.65
6:ZD:136:VAL:O	6:ZD:150:LYS:NZ	2.30	0.65
6:Zb:30:SER:OG	6:Zb:34:LYS:NZ	2.29	0.65
7:b0:159:GLU:OE2	7:b0:166:ASN:ND2	2.29	0.65
7:b4:10:LEU:HD13	7:b8:561:LYS:HB3	1.77	0.65
7:bR:571:ARG:NH2	7:bR:587:GLU:OE1	2.29	0.65
7:cA:202:GLU:OE1	7:cA:203:ALA:N	2.26	0.65
7:cE:256:PRO:HG2	7:cE:339:THR:H	1.61	0.65
7:cG:239:VAL:HG22	7:cG:280:ALA:HB3	1.78	0.65
7:cL:209:ASP:OD1	7:cL:209:ASP:N	2.28	0.65
8:eU:385:THR:HG23	8:eU:388:GLN:HB2	1.78	0.65
8:eU:444:ILE:HD13	8:eU:651:LEU:HD11	1.77	0.65
8:eW:72:ASN:HB2	14:k8:28:ILE:HG22	1.77	0.65
8:eW:311:VAL:HG11	15:m5:20:ASN:HA	1.77	0.65
11:hf:25:ILE:O	11:hf:27:TYR:N	2.28	0.65
14:kV:114:ASN:ND2	14:kV:116:ASN:OD1	2.29	0.65
17:q3:218:MET:HE3	17:q3:243:PHE:CG	2.31	0.65
1:S4:160:MET:HA	1:S4:164:LYS:HZ1	1.61	0.65
1:S7:77:THR:HG23	1:S7:80:THR:H	1.60	0.65
1:S7:497:ASN:H	1:S7:500:TYR:HB2	1.60	0.65
1:SA:291:ARG:NH2	1:Sw:269:ALA:O	2.25	0.65
4:WI:263:ILE:HG22	4:WI:381:ILE:HB	1.78	0.65
4:WJ:176:ASP:HB3	4:WJ:231:ARG:HG3	1.76	0.65
4:XI:315:GLY:HA3	4:XK:316:ILE:HG23	1.77	0.65
4:Xk:3:GLN:HG2	4:Xk:25:LYS:HG3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:1020:ARG:NH2	6:ZZ:94:ASP:OD2	2.29	0.65
5:Yy:678:GLY:O	5:Yy:684:ASN:ND2	2.29	0.65
6:ZD:60:TYR:HB2	6:ZE:9:ARG:HH11	1.61	0.65
7:b8:209:ASP:OD1	7:b8:209:ASP:N	2.29	0.65
7:bR:202:GLU:OE1	7:bR:203:ALA:N	2.29	0.65
7:cD:455:LYS:HG3	7:cD:502:VAL:HG13	1.78	0.65
7:cG:22:ASN:ND2	7:cG:76:ASN:OD1	2.29	0.65
7:cI:432:ALA:HB2	7:cI:440:ASN:HD22	1.61	0.65
8:fR:546:ASP:OD1	8:fR:547:SER:N	2.29	0.65
8:fS:69:GLN:NE2	14:k4:25:MET:SD	2.69	0.65
8:fU:448:TYR:CD2	8:fU:642:PHE:HB2	2.32	0.65
11:hk:93:ALA:O	11:hk:100:THR:OG1	2.14	0.65
12:iF:250:ASN:ND2	12:iF:272:GLU:OE1	2.21	0.65
16:o0:273:LEU:HD23	16:o0:274:PHE:H	1.61	0.65
16:o6:333:ALA:HA	17:q8:188:LEU:HD23	1.78	0.65
17:q9:110:LEU:HD12	17:q9:176:ASP:HB3	1.77	0.65
1:S0:229:LYS:HG3	1:S0:243:VAL:HG12	1.78	0.65
1:S1:463:THR:HG21	1:S2:490:ILE:HD12	1.79	0.65
1:S2:239:ASN:OD1	1:S2:253:ARG:NH2	2.29	0.65
1:S4:504:ARG:NH2	1:S8:424:ARG:O	2.26	0.65
1:SA:484:THR:HG22	1:Sy:449:GLY:HA2	1.77	0.65
1:SO:444:TYR:HB2	1:SQ:486:ASP:HB2	1.77	0.65
1:SQ:229:LYS:HG3	1:SQ:243:VAL:HG12	1.79	0.65
2:T8:53:GLY:HA2	2:T8:59:GLN:H	1.61	0.65
2:Tg:232:SER:HB3	2:Tg:254:PHE:HD2	1.61	0.65
4:XK:109:LEU:HB3	4:XK:124:VAL:HG23	1.78	0.65
4:Xl:339:GLU:HG3	4:Xl:340:VAL:HG22	1.78	0.65
5:YY:63:ALA:O	5:YY:64:ASN:ND2	2.29	0.65
5:Yx:932:ARG:HG3	5:Yx:1005:ARG:HH22	1.62	0.65
6:Za:65:VAL:O	6:Za:69:THR:OG1	2.14	0.65
7:b0:645:THR:OG1	7:cI:629:ILE:O	2.14	0.65
7:bO:256:PRO:HG2	7:bO:339:THR:H	1.61	0.65
7:bR:564:ILE:HD11	7:cP:642:PHE:HE1	1.59	0.65
7:cB:57:PRO:HB3	7:cB:62:ALA:HA	1.77	0.65
8:fB:546:ASP:OD1	8:fB:547:SER:N	2.26	0.65
8:fU:83:ALA:O	8:fU:326:ARG:NH2	2.24	0.65
11:h1:114:ARG:HG2	11:h1:126:GLU:HG3	1.78	0.65
11:hg:72:THR:HG22	11:hg:154:GLU:HG3	1.77	0.65
11:hi:97:ASN:HB3	11:hl:2:PHE:HB3	1.78	0.65
11:hp:100:THR:OG1	11:hp:101:GLY:N	2.25	0.65
17:q3:132:GLU:HG2	17:q3:134:ARG:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:13:SER:HB2	1:S2:18:PHE:HA	1.78	0.65
1:S1:72:ASN:ND2	1:S3:61:PRO:O	2.29	0.65
1:S5:451:PHE:HZ	1:S5:471:THR:HG22	1.60	0.65
1:S7:170:ILE:O	1:S7:174:ALA:HB2	1.97	0.65
1:SQ:451:PHE:HZ	1:SQ:471:THR:HG22	1.61	0.65
1:Sx:480:ARG:NH1	1:Sz:463:THR:O	2.28	0.65
2:T5:193:HIS:HB3	2:T5:196:GLU:HG3	1.78	0.65
2:T6:46:ARG:NH2	2:T6:66:TYR:OH	2.29	0.65
2:Tg:53:GLY:HA3	2:Ti:7:LYS:HE2	1.78	0.65
3:Up:107:VAL:HG22	3:Up:174:TYR:HD2	1.60	0.65
3:Uu:174:TYR:H	4:Wm:340:VAL:HG21	1.62	0.65
4:WK:326:MET:HG3	4:WK:327:PRO:HD3	1.78	0.65
4:Wj:214:SER:OG	4:Wj:222:LEU:O	2.15	0.65
4:Xm:128:VAL:HG11	4:Xm:150:GLN:HG2	1.79	0.65
5:Yy:21:VAL:HG23	5:Yy:69:PHE:HB3	1.78	0.65
6:ac:19:GLU:O	6:ac:23:ASN:ND2	2.29	0.65
7:b3:467:TRP:HZ3	7:b8:199:GLU:HB2	1.62	0.65
7:cA:166:ASN:OD1	7:cA:166:ASN:N	2.29	0.65
7:cD:235:GLU:OE2	7:cD:261:ARG:NH2	2.29	0.65
7:dT:432:ALA:HB2	7:dT:440:ASN:HD22	1.61	0.65
8:f9:349:VAL:HG22	8:f9:392:ILE:HD11	1.77	0.65
9:gG:4:ILE:HG12	12:iD:276:VAL:HG22	1.76	0.65
11:hM:25:ILE:O	11:hM:27:TYR:N	2.29	0.65
11:hh:82:ARG:NH1	11:hh:138:GLY:HA2	2.11	0.65
1:S1:357:ASP:OD1	1:S1:357:ASP:N	2.24	0.65
1:S8:116:ILE:HG23	1:S8:120:LYS:HE2	1.78	0.65
5:YC:43:THR:O	5:YC:44:ASN:ND2	2.29	0.65
7:bO:135:ASP:OD2	7:bO:139:LYS:NZ	2.29	0.65
7:bQ:2:THR:OG1	7:bQ:3:LEU:N	2.30	0.65
7:cA:488:TRP:O	7:cA:552:ASN:ND2	2.28	0.65
7:cL:490:SER:O	7:cL:496:ARG:NH1	2.30	0.65
7:cO:166:ASN:OD1	7:cO:166:ASN:N	2.29	0.65
8:fU:582:ASN:OD1	8:fU:586:ARG:NH1	2.29	0.65
16:pA:157:THR:HG23	16:pA:159:THR:H	1.62	0.65
17:q7:179:ASN:HB3	17:q7:184:PRO:HD3	1.78	0.65
17:q7:181:VAL:HG23	17:q7:195:VAL:HG21	1.77	0.65
1:S4:329:ASN:HD21	1:S8:335:ASN:HB3	1.62	0.65
1:S5:359:TRP:NE1	1:S7:340:THR:O	2.26	0.65
1:S6:386:ASN:HD21	1:S6:389:ASN:HB2	1.61	0.65
1:S7:386:ASN:HD21	1:S7:389:ASN:HB2	1.61	0.65
2:T9:110:ILE:HG22	2:T9:145:LYS:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Tf:18:ALA:HB1	2:Tf:22:ASP:HB2	1.78	0.65
2:Tf:111:ASN:ND2	2:Tf:113:ASN:OD1	2.30	0.65
4:XJ:323:THR:N	4:XJ:358:VAL:O	2.29	0.65
5:YC:425:ARG:NH2	5:YC:447:ASN:OD1	2.29	0.65
5:Yc:341:LEU:HD13	5:Yc:343:PRO:HD3	1.78	0.65
7:cA:654:LEU:HD13	7:cJ:605:ARG:HD3	1.78	0.65
7:dU:432:ALA:HB2	7:dU:440:ASN:HD22	1.61	0.65
7:dZ:620:ARG:NH1	7:dZ:622:GLU:OE2	2.30	0.65
11:he:25:ILE:O	11:he:27:TYR:N	2.29	0.65
1:SQ:236:VAL:HG21	1:SQ:249:THR:HB	1.78	0.65
1:Sv:72:ASN:ND2	1:Sz:61:PRO:O	2.30	0.65
2:T8:224:ASP:OD2	2:T8:227:ASN:ND2	2.29	0.65
3:Vs:37:SER:HA	3:Vs:50:PRO:HB3	1.79	0.65
4:Wj:323:THR:HB	4:Wj:355:ASP:HB3	1.79	0.65
4:XJ:304:ILE:HD12	4:XJ:385:TRP:HA	1.77	0.65
4:Xo:289:LYS:HE2	4:Xo:370:HIS:HE1	1.61	0.65
7:b0:57:PRO:HB3	7:b0:62:ALA:HA	1.79	0.65
7:b0:571:ARG:HD2	7:b0:584:PHE:HB2	1.77	0.65
7:b6:647:THR:O	7:cA:630:GLN:NE2	2.30	0.65
7:bQ:26:THR:HA	7:bQ:77:ASP:O	1.97	0.65
7:cB:166:ASN:OD1	7:cB:166:ASN:N	2.26	0.65
7:cF:645:THR:OG1	7:cG:629:ILE:O	2.13	0.65
7:dZ:209:ASP:OD1	7:dZ:209:ASP:N	2.30	0.65
7:dZ:394:VAL:HG11	7:dZ:443:ILE:HD12	1.77	0.65
8:fR:543:THR:HG22	8:fR:552:LYS:H	1.62	0.65
11:hr:24:GLU:HB3	11:hr:112:ILE:HG23	1.78	0.65
12:iC:188:VAL:HG12	12:iC:197:MET:HG2	1.78	0.65
16:pA:273:LEU:HD23	16:pA:274:PHE:H	1.61	0.65
1:S1:55:LYS:HB3	1:S3:57:ILE:HG22	1.78	0.65
1:SA:497:ASN:H	1:SA:500:TYR:HB2	1.61	0.65
1:SQ:145:SER:O	1:SQ:164:LYS:NZ	2.29	0.65
2:T2:36:ASN:OD1	2:T3:7:LYS:NZ	2.27	0.65
2:T5:213:LYS:NZ	2:T5:241:GLY:O	2.30	0.65
2:Td:218:GLU:OE1	2:Tf:201:LYS:NZ	2.30	0.65
3:Vp:107:VAL:HG22	3:Vp:174:TYR:HD2	1.62	0.65
3:Vr:42:GLN:HB3	3:Vr:47:PHE:HB3	1.78	0.65
3:Vr:65:LYS:O	3:Vr:217:ARG:NH1	2.30	0.65
4:Wk:49:TRP:CG	4:Wk:67:SER:HG	2.15	0.65
4:Wk:552:VAL:HG23	4:Wo:552:VAL:HG11	1.77	0.65
5:YC:33:TYR:HB3	6:ZD:156:LEU:HD22	1.79	0.65
5:YC:182:GLN:NE2	5:YC:185:LYS:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aD:15:LYS:HD2	6:aE:308:GLU:HG3	1.78	0.65
7:cB:202:GLU:OE1	7:cB:203:ALA:N	2.28	0.65
7:cG:490:SER:O	7:cG:496:ARG:NH1	2.30	0.65
7:cJ:430:ARG:HG3	7:cJ:522:ILE:HD11	1.76	0.65
7:cL:571:ARG:NH2	7:cL:587:GLU:OE1	2.29	0.65
7:cM:159:GLU:HB3	7:cM:163:LEU:HA	1.78	0.65
7:dU:459:ASP:HB2	7:dU:466:ARG:HD2	1.79	0.65
8:f9:200:TYR:HB2	8:f9:269:VAL:HG13	1.78	0.65
8:fU:114:CYS:SG	8:fU:115:THR:N	2.70	0.65
11:h2:54:MET:HE3	11:hX:20:LEU:HA	1.78	0.65
11:hr:19:ASN:OD1	11:hr:19:ASN:N	2.29	0.65
12:iD:14:VAL:HG22	12:iD:72:ILE:HG12	1.78	0.65
16:o0:97:ASN:OD1	16:o0:97:ASN:N	2.28	0.65
1:S3:451:PHE:HZ	1:S3:471:THR:HG22	1.62	0.65
1:S4:117:THR:H	1:S4:120:LYS:HZ3	1.42	0.65
1:SA:130:GLU:HA	1:Sw:139:ASN:HD21	1.62	0.65
2:T7:53:GLY:HA3	2:T9:7:LYS:HE2	1.79	0.65
3:Ut:42:GLN:HB3	3:Ut:47:PHE:HB3	1.78	0.65
3:VL:165:LYS:NZ	3:VL:185:GLU:OE1	2.30	0.65
3:Vp:173:THR:HB	4:Xn:339:GLU:HG2	1.79	0.65
4:WJ:3:GLN:HG3	4:WJ:25:LYS:HG3	1.78	0.65
4:XI:263:ILE:HG22	4:XI:381:ILE:HB	1.77	0.65
4:XK:261:ARG:HD2	4:XK:297:GLY:HA3	1.78	0.65
4:Xm:147:LYS:HD3	4:Xo:153:LYS:HB3	1.77	0.65
4:Xm:502:ASN:ND2	4:Xm:516:ALA:O	2.29	0.65
5:YC:63:ALA:O	5:YC:64:ASN:ND2	2.30	0.65
5:Yy:400:ASP:OD1	5:Yy:404:TYR:OH	2.15	0.65
7:cA:47:GLU:OE1	7:cA:461:TYR:OH	2.14	0.65
7:cF:479:ALA:O	7:cF:483:ASN:ND2	2.30	0.65
7:cL:166:ASN:OD1	7:cL:166:ASN:N	2.30	0.65
7:cL:511:GLN:OE1	7:cL:514:ARG:NH2	2.29	0.65
7:dS:116:ILE:N	7:dS:129:GLY:O	2.25	0.65
8:eW:318:ASP:OD1	8:eW:318:ASP:N	2.29	0.65
8:fU:169:GLN:NE2	8:fU:276:ASN:OD1	2.26	0.65
8:fW:119:ASN:OD1	8:fW:159:ASN:ND2	2.28	0.65
8:fs:83:ALA:O	8:fs:326:ARG:NH2	2.29	0.65
8:fs:375:ALA:HB1	8:fs:411:PRO:HB3	1.78	0.65
12:iF:264:PRO:HB2	12:iF:290:ASN:HB3	1.79	0.65
15:m5:8:TYR:HE1	16:o0:110:LEU:HD11	1.61	0.65
1:SO:424:ARG:O	1:SP:504:ARG:NH2	2.27	0.65
1:Sy:117:THR:HG23	1:Sy:120:LYS:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T3:122:LEU:HB3	2:T3:139:VAL:HB	1.79	0.65
2:T4:213:LYS:NZ	2:T4:241:GLY:O	2.29	0.65
2:TF:36:ASN:OD1	2:TG:7:LYS:NZ	2.29	0.65
2:TG:213:LYS:HE3	2:TG:249:ILE:HG12	1.78	0.65
3:Up:173:THR:HB	4:Wn:339:GLU:HG2	1.78	0.65
3:Vq:58:ASP:OD1	3:Vs:164:GLN:NE2	2.29	0.65
4:WJ:132:ASP:HB2	4:WJ:149:LYS:HD3	1.78	0.65
4:XI:314:ASN:HA	4:XI:380:ILE:HG13	1.78	0.65
6:ZE:115:ASN:ND2	6:ZE:123:GLU:O	2.26	0.65
7:b0:478:CYS:O	7:b0:555:ARG:NH1	2.30	0.65
7:b9:612:ASN:HB3	7:b9:624:VAL:HG23	1.79	0.65
7:bR:241:LYS:NZ	7:bR:274:GLN:O	2.29	0.65
7:cD:237:GLU:OE1	7:cD:284:ARG:NH1	2.29	0.65
7:cK:33:PHE:HA	7:cK:61:THR:HG23	1.79	0.65
7:dU:57:PRO:HB3	7:dU:62:ALA:HA	1.79	0.65
7:dV:637:TYR:HB2	15:m6:103:THR:HG22	1.77	0.65
7:dZ:239:VAL:HG22	7:dZ:280:ALA:HB3	1.77	0.65
8:eW:83:ALA:O	8:eW:326:ARG:NH2	2.27	0.65
8:eW:139:SER:OG	8:eW:141:ASN:OD1	2.14	0.65
8:fr:209:TRP:HB2	8:fr:223:ILE:HB	1.79	0.65
12:iC:13:SER:HB3	12:iC:73:SER:HB3	1.78	0.65
16:o1:46:ASN:ND2	16:o1:54:VAL:O	2.26	0.65
17:q9:125:ILE:HD11	17:q9:128:VAL:HG12	1.78	0.65
1:S4:50:ALA:HA	1:S4:56:GLY:HA3	1.79	0.64
1:SA:2:SER:HA	4:Wk:200:LEU:HD22	1.79	0.64
2:T7:215:LYS:HD3	2:T7:250:ALA:HB3	1.77	0.64
3:Vu:84:GLN:HB2	3:Vu:186:SER:HB3	1.77	0.64
4:WI:110:VAL:HG22	4:WI:123:PRO:HB3	1.80	0.64
4:WI:193:VAL:HG13	4:WI:199:GLU:HB3	1.80	0.64
4:Wj:263:ILE:HG22	4:Wj:381:ILE:HB	1.77	0.64
4:Wj:339:GLU:HG3	4:Wj:340:VAL:HG13	1.78	0.64
4:Xj:496:ASP:HB3	4:Xj:500:ALA:HB2	1.79	0.64
4:Xo:8:GLY:HA3	4:Xo:15:THR:HG23	1.77	0.64
7:b8:202:GLU:OE1	7:b8:203:ALA:N	2.28	0.64
7:cI:239:VAL:HG22	7:cI:280:ALA:HB3	1.79	0.64
7:cL:455:LYS:HG3	7:cL:502:VAL:HG13	1.78	0.64
8:eW:126:PRO:HD2	8:eW:292:LEU:HD21	1.79	0.64
8:fS:142:PRO:HD2	12:iC:371:LYS:HG3	1.79	0.64
11:hL:113:VAL:HG13	11:hL:127:ILE:HG23	1.79	0.64
11:hr:25:ILE:O	11:hr:27:TYR:N	2.30	0.64
12:iC:225:GLU:OE1	16:pB:115:ASN:ND2	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q4:201:VAL:HG13	17:q4:214:VAL:HG13	1.77	0.64
17:q5:201:VAL:HG13	17:q5:214:VAL:HG13	1.80	0.64
17:q8:185:VAL:HG23	17:q8:186:THR:HG23	1.77	0.64
1:S4:96:GLY:HA2	1:S8:97:LEU:HD13	1.79	0.64
1:S8:150:ALA:HB3	1:S8:168:LEU:HD12	1.79	0.64
4:Xm:18:TYR:HA	5:Yy:920:LYS:HA	1.78	0.64
4:Xm:104:VAL:HG13	4:Xm:105:ASN:H	1.62	0.64
5:YC:115:GLU:OE2	5:YC:601:ASN:ND2	2.31	0.64
5:YY:38:ILE:HD12	5:YY:57:ILE:HB	1.78	0.64
5:YY:42:LYS:HG2	5:YY:48:ASN:H	1.61	0.64
5:Yx:546:GLU:CD	5:Yx:547:ASN:H	2.05	0.64
5:Yy:436:THR:HG22	5:Yy:441:VAL:HA	1.79	0.64
7:b9:202:GLU:OE1	7:b9:203:ALA:N	2.25	0.64
7:cK:494:TYR:O	7:cK:498:GLN:NE2	2.30	0.64
8:eB:609:ILE:O	8:eB:610:ASN:HB2	1.97	0.64
8:eW:244:SER:HG	8:eW:253:THR:HG1	1.45	0.64
8:fR:349:VAL:HG22	8:fR:392:ILE:HD11	1.79	0.64
11:h2:23:VAL:HG11	11:h2:39:THR:HG21	1.78	0.64
12:iD:225:GLU:OE1	16:pA:115:ASN:ND2	2.30	0.64
16:pB:295:VAL:HG13	16:pB:311:PHE:HB3	1.79	0.64
1:S8:255:SER:HB3	1:S8:263:VAL:HG13	1.79	0.64
1:SO:115:SER:HG	1:SQ:100:TYR:HH	1.39	0.64
1:Sv:476:ASP:O	1:Sv:479:ASN:ND2	2.30	0.64
2:T5:43:GLY:O	2:T5:68:GLN:NE2	2.29	0.64
3:Uq:14:LEU:O	3:Uq:17:PHE:N	2.23	0.64
3:Vq:82:VAL:HB	3:Vq:187:LYS:H	1.62	0.64
4:WJ:36:GLU:HG3	4:WK:43:PRO:HG2	1.78	0.64
4:XJ:191:ILE:O	4:XK:164:ARG:NH2	2.30	0.64
4:Xm:192:ARG:O	4:Xm:244:ILE:HA	1.97	0.64
5:YC:404:TYR:HB2	5:YC:413:TRP:CE3	2.32	0.64
5:YC:714:TYR:HE2	5:YC:723:VAL:HG21	1.60	0.64
5:YY:769:ASP:O	5:YY:840:ARG:NH2	2.31	0.64
6:ac:115:ASN:ND2	6:ac:123:GLU:O	2.26	0.64
7:b9:596:LYS:NZ	7:b9:602:TYR:O	2.30	0.64
7:cM:470:LEU:HD23	7:cM:525:VAL:HG21	1.79	0.64
7:dU:331:PRO:HB2	7:dU:334:PHE:HB2	1.79	0.64
7:dU:406:LEU:HD13	7:dU:475:ALA:HB2	1.77	0.64
8:eB:208:ASN:HB3	8:eB:224:TYR:CZ	2.32	0.64
8:fW:433:GLU:HG2	8:fW:655:LEU:HD22	1.79	0.64
17:q4:17:GLN:HG2	17:q9:164:MET:HE2	1.78	0.64
17:q4:218:MET:HA	17:q4:245:TYR:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:504:ARG:NH1	1:Sw:510:ASN:O	2.30	0.64
1:SO:287:VAL:O	1:SO:294:GLN:NE2	2.31	0.64
1:SP:50:ALA:HA	1:SP:56:GLY:HA3	1.78	0.64
1:Sv:39:ILE:HD13	1:Sz:39:ILE:HD13	1.79	0.64
1:Sy:170:ILE:O	1:Sy:174:ALA:HB2	1.97	0.64
2:TH:36:ASN:O	2:TH:40:ASN:ND2	2.29	0.64
3:UM:7:LYS:HB3	4:WK:318:GLN:HE21	1.63	0.64
3:UM:85:THR:HG22	3:UM:183:ILE:HD12	1.80	0.64
3:Vs:86:ASP:OD2	3:Vs:180:GLN:NE2	2.31	0.64
4:XI:26:ILE:HG13	4:XJ:30:PHE:HE2	1.63	0.64
4:Xj:315:GLY:HA3	4:Xn:316:ILE:HG23	1.77	0.64
4:Xm:190:ASN:HB2	4:Xm:247:PHE:HB3	1.78	0.64
4:Xn:3:GLN:OE1	4:Xn:25:LYS:NZ	2.31	0.64
5:YX:404:TYR:HB2	5:YX:413:TRP:HE3	1.62	0.64
5:Yx:63:ALA:O	5:Yx:64:ASN:ND2	2.30	0.64
5:Yx:106:ASN:ND2	5:Yx:130:ASN:OD1	2.30	0.64
5:Yy:404:TYR:HB2	5:Yy:413:TRP:CE3	2.31	0.64
6:Za:136:VAL:O	6:Za:150:LYS:NZ	2.31	0.64
6:ac:19:GLU:OE2	6:ac:23:ASN:ND2	2.30	0.64
7:bY:198:ILE:HG23	7:bY:324:PHE:HE2	1.60	0.64
7:cD:645:THR:OG1	7:cM:629:ILE:O	2.15	0.64
7:cG:110:TYR:H	7:cG:138:GLY:HA3	1.63	0.64
7:dT:209:ASP:OD1	7:dT:209:ASP:N	2.31	0.64
11:hk:113:VAL:HG13	11:hk:127:ILE:HG23	1.78	0.64
11:hx:114:ARG:HG2	11:hx:126:GLU:HG3	1.78	0.64
14:k4:43:TYR:OH	14:k4:179:SER:OG	2.15	0.64
17:q3:20:ASN:ND2	17:q7:232:GLY:O	2.30	0.64
1:S4:478:ASP:OD1	1:S4:478:ASP:N	2.29	0.64
3:UM:39:THR:OG1	3:UM:42:GLN:OE1	2.16	0.64
3:Up:52:ILE:HG23	3:Ur:56:ILE:HD11	1.78	0.64
4:Wn:23:GLY:HA2	4:Wn:26:ILE:HG22	1.78	0.64
4:XJ:455:PRO:O	4:XJ:458:THR:OG1	2.16	0.64
4:Xj:323:THR:HB	4:Xj:355:ASP:HB3	1.80	0.64
5:YX:1015:ASN:ND2	5:YX:1022:PRO:O	2.31	0.64
5:YY:154:SER:O	5:YY:156:SER:N	2.28	0.64
5:Yx:177:GLN:HB3	5:Yx:215:LYS:HB3	1.80	0.64
5:Yx:298:ALA:HB3	5:Yx:300:LEU:HD23	1.80	0.64
5:Yx:1015:ASN:ND2	5:Yx:1022:PRO:O	2.31	0.64
5:Yy:382:GLU:N	5:Yy:382:GLU:OE1	2.30	0.64
6:aD:35:ASN:ND2	6:aE:19:GLU:OE2	2.30	0.64
7:bP:455:LYS:HG3	7:bP:502:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cM:202:GLU:OE1	7:cM:203:ALA:N	2.30	0.64
7:dZ:459:ASP:OD2	7:dZ:466:ARG:NH1	2.30	0.64
8:fB:157:LYS:O	8:fB:158:ASN:ND2	2.31	0.64
8:fB:243:ILE:HD11	8:fB:252:LEU:HB3	1.79	0.64
8:fr:332:LYS:HE3	8:fr:348:PHE:HE1	1.63	0.64
9:gE:129:THR:HG22	9:gH:73:VAL:HG21	1.78	0.64
11:hX:118:ARG:NH2	11:hw:62:GLY:O	2.31	0.64
15:m5:60:GLN:OE1	15:m5:76:ASN:ND2	2.31	0.64
1:S0:193:LEU:HD11	1:S5:207:GLY:HA2	1.80	0.64
1:S1:449:GLY:HA2	1:S2:484:THR:HG22	1.80	0.64
1:SO:97:LEU:HB3	1:SP:95:TYR:HB3	1.79	0.64
1:SQ:151:LEU:HB2	1:SQ:168:LEU:HD13	1.78	0.64
1:Sv:484:THR:HG22	1:Sz:449:GLY:HA2	1.79	0.64
2:T6:18:ALA:HB3	2:T6:23:ILE:HG23	1.80	0.64
3:VL:16:ASP:HB3	3:VL:42:GLN:HG3	1.79	0.64
4:Wn:19:LEU:HB2	5:YX:992:PRO:HA	1.79	0.64
4:X1:406:LEU:HD13	4:XK:403:THR:HG21	1.79	0.64
5:Yy:18:ALA:HA	5:Yy:102:THR:HB	1.79	0.64
5:Yy:202:PHE:HB3	5:Yy:209:VAL:HG22	1.79	0.64
6:aD:282:LYS:NZ	6:aD:289:ASN:OD1	2.28	0.64
7:bO:559:MET:SD	7:bO:563:ASN:ND2	2.70	0.64
7:cJ:495:ASN:OD1	7:cJ:495:ASN:N	2.31	0.64
8:eB:433:GLU:HG2	8:eB:655:LEU:HD22	1.78	0.64
8:fU:208:ASN:HB3	8:fU:224:TYR:CZ	2.33	0.64
8:fW:311:VAL:HG11	15:m1:20:ASN:HA	1.79	0.64
11:hJ:114:ARG:HG2	11:hJ:126:GLU:HG3	1.78	0.64
11:hM:39:THR:HG22	11:hM:71:VAL:HG22	1.79	0.64
2:T5:209:VAL:HA	2:T5:273:ARG:HH12	1.62	0.64
2:T7:97:ILE:HG12	2:T7:125:GLN:HB3	1.79	0.64
2:T9:28:GLY:O	2:T9:32:ASN:ND2	2.31	0.64
3:UM:86:ASP:OD2	3:UM:180:GLN:NE2	2.29	0.64
3:Vq:144:ASN:OD1	3:Vu:32:ARG:NH1	2.31	0.64
4:WJ:110:VAL:HG22	4:WJ:123:PRO:HB3	1.80	0.64
4:WK:344:VAL:HG12	4:WK:349:TRP:H	1.60	0.64
4:Wk:488:VAL:HG22	4:Wo:486:VAL:HG12	1.79	0.64
4:X1:304:ILE:HD12	4:X1:385:TRP:HA	1.79	0.64
4:Xo:63:GLU:OE1	4:Xo:68:TYR:OH	2.16	0.64
5:YX:124:GLN:O	5:YX:128:THR:OG1	2.15	0.64
5:YX:546:GLU:CD	5:YX:547:ASN:H	2.06	0.64
5:YY:711:ARG:HH12	5:YY:881:ARG:HG2	1.62	0.64
5:Yc:523:ARG:HB2	5:Yc:535:VAL:HG13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:1020:ARG:NH2	6:aZ:94:ASP:OD2	2.30	0.64
7:b5:560:LEU:HD21	7:b5:601:ILE:HD11	1.78	0.64
7:b8:596:LYS:NZ	7:b8:602:TYR:O	2.30	0.64
7:cA:486:GLN:NE2	11:hq:11:GLU:OE1	2.31	0.64
7:cB:498:GLN:HG2	7:cB:534:VAL:HG12	1.80	0.64
7:cF:490:SER:O	7:cF:496:ARG:NH1	2.30	0.64
7:dT:112:VAL:HG13	7:dT:134:VAL:HG22	1.78	0.64
7:dU:571:ARG:NH2	7:dU:587:GLU:OE2	2.30	0.64
7:dV:116:ILE:HG12	7:dV:171:ILE:HG22	1.80	0.64
8:eB:98:TYR:HB2	8:eB:332:LYS:HG3	1.79	0.64
8:fA:508:ARG:NH1	8:fA:576:ASP:OD1	2.31	0.64
8:fU:311:VAL:HG11	15:m6:20:ASN:HA	1.80	0.64
17:q8:199:ILE:HG12	17:q8:218:MET:SD	2.37	0.64
1:SA:193:LEU:HB2	1:Sw:185:GLU:HA	1.79	0.64
1:Sw:291:ARG:NH2	1:Sy:269:ALA:O	2.30	0.64
2:TF:275:ALA:O	2:TG:282:GLN:NE2	2.31	0.64
2:Tg:168:PHE:HA	2:Ti:163:SER:HB3	1.80	0.64
3:Us:7:LYS:HB3	4:Wo:318:GLN:HE21	1.63	0.64
3:Vr:39:THR:OG1	3:Vr:42:GLN:OE1	2.15	0.64
3:Vu:73:ASN:ND2	3:Vu:75:THR:OG1	2.30	0.64
3:Vu:73:ASN:HD21	3:Vu:76:GLY:H	1.44	0.64
4:XK:265:LEU:HB3	4:XK:281:TYR:HB3	1.80	0.64
4:Xj:316:ILE:HG23	4:Xl:315:GLY:HA3	1.80	0.64
4:Xl:312:ARG:O	4:Xl:382:ASN:N	2.28	0.64
5:Yc:106:ASN:ND2	5:Yc:130:ASN:OD1	2.31	0.64
6:ab:30:SER:OG	6:ab:34:LYS:NZ	2.29	0.64
6:ab:92:ARG:HB2	6:ab:208:ILE:HG23	1.80	0.64
7:b4:432:ALA:HB2	7:b4:440:ASN:HD22	1.63	0.64
7:b7:90:LYS:NZ	7:b7:190:ASP:OD1	2.30	0.64
7:cJ:237:GLU:OE1	7:cJ:284:ARG:NH1	2.31	0.64
8:f9:281:ASN:ND2	8:f9:315:GLY:O	2.31	0.64
8:fR:148:ARG:HD2	8:fR:168:ALA:HB2	1.79	0.64
8:fW:174:ARG:HB3	8:fW:271:GLU:HG2	1.80	0.64
9:gE:375:LEU:HD22	9:gE:455:LYS:HD3	1.79	0.64
11:hf:17:ARG:HG3	11:hf:20:LEU:HD12	1.80	0.64
12:iD:41:ARG:NH2	12:iD:341:GLU:OE2	2.31	0.64
17:q4:106:VAL:HG21	17:q7:249:GLN:HB3	1.79	0.64
1:S0:484:THR:HG22	1:S7:449:GLY:HA2	1.80	0.64
1:S1:193:LEU:HB2	1:S2:185:GLU:HA	1.78	0.64
1:S1:291:ARG:NH2	1:S2:269:ALA:O	2.30	0.64
1:S1:356:SER:HB2	1:S2:339:ARG:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sy:493:GLU:HG3	1:Sy:496:ARG:HH21	1.63	0.64
3:UN:7:LYS:HG3	4:Wl:316:ILE:HD13	1.79	0.64
3:Vq:147:LYS:NZ	3:Vq:148:ASP:O	2.31	0.64
4:Wk:263:ILE:HG22	4:Wk:381:ILE:HB	1.80	0.64
4:Wj:488:VAL:HG22	4:Wn:486:VAL:HG12	1.79	0.64
4:Wk:304:ILE:HD12	4:Wk:385:TRP:HA	1.80	0.64
4:Wn:202:TYR:OH	4:Wn:223:VAL:O	2.15	0.64
4:Xo:292:PRO:HA	4:Xo:368:ILE:HG13	1.79	0.64
5:YY:507:LYS:HE2	5:YY:510:ALA:H	1.63	0.64
5:Yc:428:GLN:HG2	5:Yc:429:PRO:HD2	1.80	0.64
5:Yx:652:MET:SD	8:fU:63:ASN:ND2	2.69	0.64
6:ZZ:282:LYS:NZ	6:ZZ:289:ASN:OD1	2.24	0.64
7:b4:159:GLU:OE1	7:b4:164:GLY:N	2.31	0.64
7:bY:90:LYS:NZ	7:bY:190:ASP:OD1	2.31	0.64
7:dZ:29:LEU:O	7:dZ:80:VAL:HA	1.98	0.64
9:gE:39:ARG:HH12	9:gE:117:PRO:HA	1.63	0.64
9:gH:136:GLY:O	9:gH:138:VAL:N	2.31	0.64
14:k3:112:HIS:HB3	14:k3:150:LEU:HD13	1.80	0.64
1:S0:495:GLN:NE2	4:Wk:423:THR:O	2.30	0.64
1:S0:504:ARG:NH1	1:S5:510:ASN:O	2.31	0.64
1:S4:33:GLN:NE2	1:S6:19:ASP:O	2.31	0.64
1:S7:149:GLN:O	1:S7:153:GLY:HA2	1.97	0.64
1:Sx:9:VAL:HG22	4:Wn:196:ARG:HH12	1.61	0.64
2:TF:282:GLN:NE2	2:TH:275:ALA:O	2.31	0.64
3:Us:70:ILE:HG12	3:Uu:73:ASN:HA	1.79	0.64
4:Wj:92:VAL:HG12	4:Wj:136:VAL:HG12	1.78	0.64
4:Wk:95:ALA:HB3	4:Wk:133:LEU:HB2	1.80	0.64
4:Wl:304:ILE:HD12	4:Wl:385:TRP:HA	1.80	0.64
4:Xk:20:ARG:HG2	4:Xo:11:VAL:HG13	1.80	0.64
4:Xk:215:PRO:HG3	4:Xk:226:ASP:HB2	1.78	0.64
5:YC:712:ASN:HD21	5:YC:720:ARG:HG3	1.63	0.64
5:Yx:723:VAL:HG22	8:fU:257:ILE:HG12	1.80	0.64
6:aD:263:LEU:HB2	6:aD:266:ASN:HB2	1.80	0.64
7:cD:511:GLN:OE1	7:cD:514:ARG:NH2	2.31	0.64
7:cO:202:GLU:OE1	7:cO:203:ALA:N	2.30	0.64
7:dZ:116:ILE:N	7:dZ:129:GLY:O	2.22	0.64
11:h1:39:THR:HG22	11:h1:71:VAL:HG13	1.80	0.64
15:m1:101:ASP:OD1	15:m1:101:ASP:N	2.30	0.64
16:o0:303:LYS:NZ	16:o1:253:TRP:O	2.31	0.64
17:q8:167:GLU:HA	17:q9:211:HIS:CD2	2.33	0.64
1:S2:150:ALA:HB3	1:S2:168:LEU:HD13	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:357:ASP:O	1:S2:360:ARG:NH1	2.31	0.63
1:S4:172:LEU:O	1:S4:175:GLN:NE2	2.31	0.63
1:SA:478:ASP:HB3	4:WK:353:HIS:HB2	1.81	0.63
1:SA:490:ILE:HD12	1:Sy:463:THR:HG21	1.79	0.63
1:SO:440:GLN:NE2	1:SP:425:LEU:O	2.31	0.63
1:SQ:167:GLN:HG3	1:SQ:168:LEU:HG	1.80	0.63
1:Sv:401:ARG:NH1	1:Sv:430:THR:O	2.31	0.63
2:T5:212:ARG:HG3	2:T5:213:LYS:HG3	1.80	0.63
3:UL:13:ARG:NH2	3:UN:17:PHE:O	2.31	0.63
3:Uq:65:LYS:O	3:Uq:217:ARG:NH1	2.30	0.63
3:VL:39:THR:OG1	3:VL:42:GLN:OE1	2.16	0.63
3:VN:14:LEU:O	3:VN:17:PHE:N	2.26	0.63
3:Vs:28:ASP:OD2	3:Vu:60:HIS:NE2	2.32	0.63
4:Wn:193:VAL:HG13	4:Wn:199:GLU:HB3	1.79	0.63
4:Xk:507:ASP:OD1	4:Xk:511:ASN:N	2.31	0.63
5:YX:484:HIS:ND1	6:Zc:232:GLN:OE1	2.31	0.63
5:Yx:853:ASP:OD1	5:Yx:853:ASP:N	2.24	0.63
6:aE:114:CYS:HA	6:aE:120:ASN:HD21	1.62	0.63
6:aZ:263:LEU:HB2	6:aZ:266:ASN:HB2	1.80	0.63
6:aZ:274:ILE:HB	6:aZ:311:TYR:HB3	1.80	0.63
7:b7:645:THR:OG1	7:cB:629:ILE:O	2.15	0.63
7:bP:11:LYS:HG2	7:bP:13:THR:HG23	1.79	0.63
7:cC:33:PHE:HA	7:cC:61:THR:HG23	1.78	0.63
7:cI:110:TYR:H	7:cI:138:GLY:HA3	1.61	0.63
7:cJ:22:ASN:ND2	7:cJ:76:ASN:OD1	2.30	0.63
8:fW:126:PRO:HD2	8:fW:292:LEU:HD21	1.80	0.63
11:hK:39:THR:HG22	11:hK:71:VAL:HG22	1.80	0.63
16:o2:129:LEU:HD21	16:o2:225:ILE:HD13	1.80	0.63
1:S4:143:LYS:HG2	1:S6:139:ASN:HB3	1.78	0.63
3:Vp:52:ILE:HG23	3:Vr:56:ILE:HD11	1.80	0.63
3:Vq:73:ASN:HA	3:Vu:70:ILE:HG12	1.78	0.63
4:Wm:9:ASN:O	4:Wo:20:ARG:NH2	2.30	0.63
4:Xj:529:ASN:OD1	4:Xn:577:ASN:ND2	2.31	0.63
4:Xk:60:LEU:HD21	4:Xk:79:ILE:HG22	1.80	0.63
4:Xl:76:ARG:NH2	4:Xl:78:THR:OG1	2.32	0.63
5:YC:382:GLU:N	5:YC:382:GLU:OE1	2.30	0.63
5:YX:63:ALA:O	5:YX:64:ASN:ND2	2.31	0.63
5:YX:696:ARG:HA	5:YX:725:ARG:HD3	1.79	0.63
7:b0:76:ASN:ND2	7:b0:76:ASN:O	2.32	0.63
7:b3:486:GLN:NE2	11:hu:11:GLU:OE1	2.30	0.63
7:b8:514:ARG:NH1	7:cC:366:GLU:OE2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cA:154:ALA:HA	7:cA:157:VAL:HG22	1.79	0.63
7:cB:159:GLU:OE2	7:cB:166:ASN:ND2	2.31	0.63
7:cE:394:VAL:HG11	7:cE:443:ILE:HD12	1.80	0.63
7:cI:391:LYS:NZ	7:cI:440:ASN:O	2.32	0.63
7:cM:11:LYS:HG2	7:cM:13:THR:HG23	1.81	0.63
8:eB:318:ASP:OD1	8:eB:318:ASP:N	2.31	0.63
8:eW:582:ASN:OD1	8:eW:586:ARG:NH1	2.30	0.63
8:eW:636:ASP:N	8:eW:636:ASP:OD1	2.31	0.63
8:f9:487:GLU:OE2	8:f9:647:ARG:NH1	2.31	0.63
8:fU:546:ASP:OD1	8:fU:547:SER:N	2.27	0.63
11:h2:14:ASP:OD1	11:h2:17:ARG:NH2	2.30	0.63
11:hI:3:VAL:HG12	11:hZ:97:ASN:HA	1.80	0.63
11:hL:22:GLN:HB2	11:hL:116:TYR:HE1	1.63	0.63
11:he:58:ILE:HD12	11:hj:6:VAL:HG21	1.81	0.63
11:hj:96:GLY:O	11:hn:56:ARG:NH2	2.28	0.63
16:o6:95:ALA:HB3	16:o6:99:ILE:HA	1.79	0.63
17:q3:95:ARG:NH2	17:q3:183:ASP:OD2	2.27	0.63
1:S0:472:ARG:NH2	4:Wm:404:ASP:OD2	2.29	0.63
1:Sx:221:THR:HG23	1:Sx:224:TYR:H	1.64	0.63
3:Vr:70:ILE:HD11	3:Vt:74:LYS:HG3	1.80	0.63
4:WK:234:GLN:HG2	4:WK:236:CYS:H	1.62	0.63
4:Wo:229:ASN:OD1	4:Wo:230:ILE:N	2.31	0.63
4:XI:198:ASN:ND2	4:XJ:243:GLN:OE1	2.31	0.63
4:XI:304:ILE:HD13	4:XI:309:LEU:HG	1.80	0.63
4:XJ:54:ALA:HB3	4:XJ:74:SER:HB3	1.79	0.63
4:Xj:460:TYR:HE1	4:XI:458:THR:HG23	1.63	0.63
4:Xj:488:VAL:HG22	4:Xn:486:VAL:HG12	1.80	0.63
5:YC:750:VAL:HG12	8:eB:257:ILE:HD12	1.79	0.63
5:Yx:331:THR:O	5:Yx:348:ARG:NH2	2.30	0.63
7:b8:486:GLN:NE2	11:hv:11:GLU:OE1	2.31	0.63
7:bR:209:ASP:OD1	7:bR:209:ASP:N	2.24	0.63
7:cA:432:ALA:HB2	7:cA:440:ASN:HD22	1.63	0.63
7:cD:131:ILE:HD11	7:cD:171:ILE:HD13	1.79	0.63
7:cP:135:ASP:HB3	7:cP:139:LYS:HB2	1.79	0.63
7:dS:505:LEU:HD21	7:dS:525:VAL:HG12	1.80	0.63
7:dV:209:ASP:OD1	7:dV:209:ASP:N	2.27	0.63
7:dW:459:ASP:OD2	7:dW:466:ARG:NH1	2.30	0.63
8:eB:157:LYS:H	8:eB:157:LYS:HZ3	1.47	0.63
8:fR:174:ARG:NH1	16:o6:94:THR:OG1	2.31	0.63
1:S0:303:GLU:HA	1:S5:309:ALA:HB3	1.80	0.63
1:S7:167:GLN:HG3	3:Vp:77:VAL:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:151:LEU:HB2	1:SA:168:LEU:HD13	1.80	0.63
2:Ti:28:GLY:O	2:Ti:32:ASN:ND2	2.31	0.63
4:WJ:192:ARG:O	4:WJ:244:ILE:HA	1.98	0.63
4:Wk:577:ASN:ND2	4:Wm:529:ASN:OD1	2.31	0.63
4:Wm:110:VAL:HG22	4:Wm:123:PRO:HB3	1.81	0.63
4:XJ:180:VAL:HG13	4:XJ:181:PHE:H	1.63	0.63
4:Xj:215:PRO:HG3	4:Xj:226:ASP:HB2	1.80	0.63
5:YY:382:GLU:N	5:YY:382:GLU:OE1	2.31	0.63
7:b6:247:GLY:HA2	7:b6:266:LYS:HG3	1.80	0.63
7:b8:76:ASN:O	7:b8:76:ASN:ND2	2.32	0.63
7:b9:430:ARG:NH2	7:b9:443:ILE:O	2.31	0.63
7:b9:645:THR:OG1	7:cD:629:ILE:O	2.14	0.63
7:bP:494:TYR:O	7:bP:498:GLN:NE2	2.31	0.63
7:dT:490:SER:O	7:dT:496:ARG:NH1	2.31	0.63
7:dV:459:ASP:OD2	7:dV:466:ARG:NH1	2.30	0.63
7:dZ:112:VAL:HG13	7:dZ:134:VAL:HG22	1.79	0.63
8:f9:83:ALA:O	8:f9:326:ARG:NH2	2.31	0.63
11:hI:2:PHE:HB3	11:hZ:97:ASN:HB3	1.81	0.63
11:hj:114:ARG:HG2	11:hj:126:GLU:HG3	1.80	0.63
17:q4:165:ASP:OD1	17:q4:166:SER:N	2.31	0.63
17:q5:32:THR:O	17:q5:87:TYR:OH	2.16	0.63
1:S0:446:LYS:N	1:S5:503:ASN:OD1	2.23	0.63
1:S1:41:PRO:O	1:S1:45:ASN:ND2	2.32	0.63
1:S6:33:GLN:NE2	1:S8:19:ASP:O	2.30	0.63
1:S7:58:LEU:HD11	1:S7:75:ALA:HB2	1.81	0.63
1:Sw:51:SER:HB3	1:Sw:54:THR:HB	1.80	0.63
1:Sx:99:ARG:NH1	1:Sx:100:TYR:O	2.32	0.63
1:Sy:89:ASN:HD21	1:Sy:113:GLU:HB2	1.63	0.63
1:Sz:62:THR:N	1:Sz:65:GLU:OE1	2.31	0.63
1:Sz:152:ALA:HB2	3:UL:82:VAL:HG11	1.79	0.63
1:Sz:255:SER:HB3	1:Sz:263:VAL:HG13	1.79	0.63
2:T9:201:LYS:HB3	2:T9:280:ALA:HB3	1.79	0.63
3:Vq:14:LEU:O	3:Vq:17:PHE:N	2.26	0.63
4:Wk:215:PRO:HG3	4:Wk:226:ASP:HB2	1.81	0.63
4:Xl:455:PRO:O	4:Xl:458:THR:OG1	2.16	0.63
5:YY:43:THR:O	5:YY:44:ASN:ND2	2.30	0.63
5:Yc:378:LEU:HB3	5:Yc:403:ILE:HB	1.80	0.63
5:Yx:703:TYR:OH	8:fr:12:ARG:NH1	2.31	0.63
5:Yy:657:TYR:HD2	8:fW:52:ARG:HD3	1.63	0.63
7:cA:236:ILE:HD11	7:cA:323:ILE:HG21	1.79	0.63
7:cL:256:PRO:HG2	7:cL:339:THR:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cP:166:ASN:OD1	7:cP:166:ASN:N	2.29	0.63
7:dV:57:PRO:HB3	7:dV:62:ALA:HA	1.80	0.63
8:eB:144:ASN:OD1	8:eB:144:ASN:N	2.32	0.63
8:fA:30:LYS:NZ	8:fA:58:ASP:OD1	2.30	0.63
11:hq:25:ILE:O	11:hq:27:TYR:N	2.32	0.63
11:hz:23:VAL:HG11	11:hz:39:THR:HG21	1.80	0.63
17:q3:218:MET:HA	17:q3:245:TYR:HA	1.80	0.63
17:q5:125:ILE:HD11	17:q5:128:VAL:HG12	1.80	0.63
1:S0:411:ASN:O	1:S0:415:ASN:ND2	2.27	0.63
1:S1:207:GLY:HA2	1:S3:193:LEU:HD11	1.80	0.63
1:Sw:463:THR:HG21	1:Sy:490:ILE:HD12	1.81	0.63
1:Sx:166:GLN:NE2	1:Sz:150:ALA:O	2.30	0.63
3:Vp:14:LEU:O	3:Vp:17:PHE:N	2.20	0.63
4:Xj:117:ILE:HA	4:Xj:143:TRP:HB2	1.80	0.63
4:Xk:453:ILE:HG21	4:Xm:453:ILE:HD12	1.81	0.63
5:Yc:63:ALA:O	5:Yc:64:ASN:ND2	2.31	0.63
5:Yx:341:LEU:HD13	5:Yx:343:PRO:HD3	1.80	0.63
7:b5:47:GLU:OE1	7:b5:461:TYR:OH	2.15	0.63
7:bO:90:LYS:NZ	7:bO:190:ASP:OD1	2.32	0.63
7:cB:33:PHE:HA	7:cB:61:THR:HG23	1.79	0.63
7:cI:256:PRO:HG2	7:cI:339:THR:H	1.62	0.63
7:dS:494:TYR:O	7:dS:498:GLN:NE2	2.30	0.63
7:dT:601:ILE:HD12	7:dT:629:ILE:HD12	1.81	0.63
8:eB:35:GLU:HG3	8:fR:264:GLN:HB3	1.80	0.63
8:fA:200:TYR:HB2	8:fA:269:VAL:HG13	1.80	0.63
8:fs:142:PRO:HD2	12:iF:371:LYS:HG3	1.81	0.63
8:fs:340:VAL:HG13	8:fs:401:LEU:HD11	1.81	0.63
11:h1:63:ASP:OD2	11:hM:147:ASN:ND2	2.31	0.63
11:hq:98:GLU:OE1	11:hq:98:GLU:N	2.30	0.63
1:S7:89:ASN:HD21	1:S7:113:GLU:HB2	1.63	0.63
1:SP:132:ARG:NH2	1:SP:139:ASN:OD1	2.31	0.63
1:Sx:47:VAL:HA	1:Sx:57:ILE:HD12	1.81	0.63
1:Sx:491:ASP:OD1	1:Sx:491:ASP:N	2.30	0.63
2:T7:193:HIS:HB3	2:T7:196:GLU:HG3	1.81	0.63
2:Th:224:ASP:OD2	2:Th:227:ASN:ND2	2.29	0.63
4:Wl:215:PRO:HG3	4:Wl:226:ASP:HB2	1.79	0.63
4:Wl:64:TRP:CE3	4:Wl:64:TRP:HA	2.33	0.63
4:XK:102:TRP:CZ3	4:XK:131:SER:HB2	2.33	0.63
4:Xj:329:PHE:HB3	4:Xj:332:VAL:HB	1.79	0.63
4:Xl:19:LEU:HA	5:Yx:921:TRP:HE1	1.64	0.63
5:YC:307:ILE:HA	5:YC:391:ARG:HH12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:364:VAL:HG21	5:YY:396:ILE:HG12	1.80	0.63
7:b7:486:GLN:NE2	11:hm:11:GLU:OE1	2.32	0.63
7:b8:47:GLU:OE1	7:b8:461:TYR:OH	2.16	0.63
7:bR:642:PHE:HE1	7:dW:564:ILE:HD11	1.63	0.63
7:cK:467:TRP:HZ3	7:cP:199:GLU:HB2	1.64	0.63
7:dS:486:GLN:NE2	7:dS:489:MET:SD	2.72	0.63
7:dT:459:ASP:OD2	7:dT:466:ARG:NH1	2.31	0.63
7:dZ:550:ARG:NH1	7:dZ:636:ASN:OD1	2.32	0.63
7:dZ:571:ARG:NH2	7:dZ:587:GLU:OE2	2.32	0.63
11:h1:136:ASN:HB3	11:h1:156:THR:HG23	1.80	0.63
11:hI:1:MET:HE1	11:hx:54:MET:HE2	1.79	0.63
11:hh:25:ILE:O	11:hh:27:TYR:N	2.31	0.63
11:hj:82:ARG:HH12	11:hj:138:GLY:HA2	1.64	0.63
11:hl:17:ARG:HG3	11:hl:20:LEU:HD12	1.80	0.63
1:S0:29:ILE:HG22	1:S0:30:THR:H	1.64	0.63
1:S3:47:VAL:HA	1:S3:57:ILE:HD12	1.80	0.63
1:S4:39:ILE:HD13	1:S8:39:ILE:HD13	1.80	0.63
2:Te:163:SER:HB3	2:Ti:168:PHE:HA	1.81	0.63
3:VL:174:TYR:H	4:XK:340:VAL:HG21	1.63	0.63
3:Vp:16:ASP:HB3	3:Vp:42:GLN:HG3	1.80	0.63
4:WI:507:ASP:OD1	4:WI:511:ASN:N	2.32	0.63
4:WK:63:GLU:OE1	4:WK:68:TYR:OH	2.16	0.63
4:Wk:70:ILE:HB	4:Wk:102:TRP:HZ2	1.64	0.63
4:Wm:19:LEU:N	5:YY:919:TYR:O	2.31	0.63
4:Wm:190:ASN:HB2	4:Wm:247:PHE:HB3	1.81	0.63
4:XJ:314:ASN:HA	4:XJ:380:ILE:HG13	1.81	0.63
4:XK:222:LEU:HG	4:XK:224:PRO:HD2	1.81	0.63
4:Xj:216:GLY:HA2	4:Xj:231:ARG:HD2	1.80	0.63
4:Xj:263:ILE:HG22	4:Xj:381:ILE:HB	1.81	0.63
4:Xn:312:ARG:HD3	4:Xn:317:LEU:HD12	1.79	0.63
5:YC:18:ALA:HA	5:YC:102:THR:HB	1.81	0.63
5:YC:559:GLU:HG2	5:YC:568:ILE:HG12	1.80	0.63
5:YY:546:GLU:OE1	5:YY:547:ASN:N	2.31	0.63
5:Yc:18:ALA:HA	5:Yc:102:THR:HB	1.81	0.63
5:Yc:546:GLU:CD	5:Yc:547:ASN:H	2.07	0.63
5:Yx:507:LYS:HB2	5:Yx:511:GLU:HB2	1.81	0.63
5:Yx:646:ARG:NH1	5:Yx:673:GLN:OE1	2.31	0.63
7:b0:487:THR:HG21	7:b0:559:MET:HE3	1.79	0.63
7:b5:432:ALA:HB2	7:b5:440:ASN:HD22	1.64	0.63
7:b8:351:THR:HG23	7:b8:354:ASP:H	1.64	0.63
7:bO:624:VAL:HG12	7:cM:639:THR:HB	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cD:455:LYS:HB2	7:cD:470:LEU:HD13	1.81	0.63
8:f9:253:THR:OG1	8:f9:254:ALA:N	2.28	0.63
11:hm:43:ALA:O	11:hm:162:TRP:NE1	2.31	0.63
1:S0:463:THR:O	1:S7:480:ARG:NH1	2.30	0.63
1:S3:62:THR:N	1:S3:65:GLU:OE1	2.30	0.63
1:S7:162:PRO:O	1:S7:166:GLN:N	2.31	0.63
1:SA:495:GLN:NE2	4:WI:423:THR:O	2.31	0.63
2:Tg:215:LYS:HD3	2:Tg:250:ALA:HB3	1.81	0.63
3:Us:39:THR:OG1	3:Us:42:GLN:OE1	2.16	0.63
4:WJ:104:VAL:HG13	4:WJ:105:ASN:H	1.64	0.63
4:Wj:221:GLU:OE2	4:Wj:233:ARG:NH2	2.32	0.63
4:Wj:304:ILE:HD13	4:Wj:309:LEU:HG	1.81	0.63
4:Wl:194:LYS:HG2	4:Wl:198:ASN:HA	1.80	0.63
4:Wo:3:GLN:OE1	4:Wo:25:LYS:NZ	2.32	0.63
4:Xl:323:THR:N	4:Xl:358:VAL:O	2.32	0.63
4:Xo:234:GLN:HG2	4:Xo:236:CYS:H	1.62	0.63
5:YC:744:TYR:OH	5:YC:884:HIS:ND1	2.25	0.63
5:YY:523:ARG:HB2	5:YY:535:VAL:HG13	1.81	0.63
7:bP:119:LYS:HG3	7:bP:168:THR:HG23	1.80	0.63
7:cE:488:TRP:O	7:cE:552:ASN:ND2	2.32	0.63
7:cL:400:ARG:NH1	7:cL:403:CYS:SG	2.71	0.63
7:cP:209:ASP:OD1	7:cP:209:ASP:N	2.30	0.63
8:eB:42:GLU:O	15:mT:25:ARG:NH2	2.30	0.63
8:fA:83:ALA:O	8:fA:326:ARG:NH2	2.31	0.63
8:fU:425:ALA:O	8:fU:427:ASN:N	2.32	0.63
8:fW:609:ILE:O	8:fW:610:ASN:HB2	1.98	0.63
16:pB:42:ARG:NH1	16:pB:60:ASN:O	2.27	0.63
16:pB:47:ASP:OD2	17:q4:95:ARG:NH1	2.32	0.63
1:S5:481:SER:OG	1:S7:449:GLY:O	2.14	0.62
1:S6:99:ARG:NH1	1:S6:100:TYR:O	2.32	0.62
1:Sw:295:ILE:HG13	1:Sy:301:ARG:HB3	1.81	0.62
2:T1:213:LYS:NZ	2:T1:241:GLY:O	2.31	0.62
3:Ut:109:VAL:HG13	3:Ut:178:ILE:HD13	1.81	0.62
4:XI:103:ASN:O	4:XI:105:ASN:N	2.31	0.62
4:Xm:223:VAL:HB	4:Xm:224:PRO:HD3	1.81	0.62
5:Yc:124:GLN:O	5:Yc:128:THR:OG1	2.16	0.62
7:b0:33:PHE:HA	7:b0:61:THR:HG23	1.81	0.62
7:b7:66:MET:HG2	7:b7:468:VAL:HG21	1.81	0.62
7:b8:549:ASP:OD2	7:b9:271:TYR:OH	2.09	0.62
7:bQ:432:ALA:HB2	7:bQ:440:ASN:HD22	1.64	0.62
7:cB:561:LYS:HB3	7:cE:10:LEU:HD13	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cC:119:LYS:NZ	7:cC:124:ASP:OD1	2.31	0.62
8:fs:487:GLU:OE2	8:fs:647:ARG:NH1	2.32	0.62
9:gE:73:VAL:HG21	9:gG:129:THR:HG22	1.80	0.62
12:iF:182:SER:OG	12:iF:199:ASP:OD2	2.17	0.62
1:S4:61:PRO:HB3	1:S4:74:LYS:HD3	1.80	0.62
1:S5:97:LEU:HB3	1:S7:95:TYR:HB3	1.81	0.62
1:SA:24:ASN:ND2	1:Sy:40:SER:O	2.31	0.62
1:SP:401:ARG:NH1	1:SP:438:GLN:OE1	2.31	0.62
3:VN:193:TRP:HB3	3:VN:215:PHE:HB3	1.81	0.62
3:Vt:14:LEU:O	3:Vt:17:PHE:N	2.27	0.62
4:WJ:86:VAL:HG22	4:WJ:87:ASN:H	1.64	0.62
4:Wm:507:ASP:OD1	4:Wm:511:ASN:N	2.33	0.62
4:XJ:13:ASP:O	5:Yc:986:ARG:NH2	2.32	0.62
4:Xn:193:VAL:HG13	4:Xn:199:GLU:HB3	1.81	0.62
5:YC:116:MET:HE1	5:YC:612:TRP:HE1	1.63	0.62
5:YC:782:VAL:HG21	5:YC:859:ARG:HB3	1.81	0.62
5:Yc:580:LYS:O	5:Yc:605:ARG:NH1	2.31	0.62
8:eW:341:THR:HG22	8:fs:400:ASN:H	1.64	0.62
8:fR:119:ASN:ND2	8:fR:159:ASN:OD1	2.30	0.62
11:h2:54:MET:HE2	11:hM:1:MET:HE1	1.80	0.62
11:he:72:THR:HG22	11:he:154:GLU:HG3	1.80	0.62
14:k7:124:ILE:HB	14:k7:136:LYS:HB3	1.80	0.62
14:kV:8:PRO:O	16:o6:96:ARG:NH2	2.30	0.62
17:q4:167:GLU:HA	17:q7:211:HIS:HD2	1.62	0.62
17:q8:203:LEU:HB2	17:q8:212:THR:HG22	1.81	0.62
1:S0:415:ASN:O	1:S0:424:ARG:NH1	2.31	0.62
1:S5:232:THR:HG22	1:S5:235:GLU:HG3	1.80	0.62
1:SP:99:ARG:NH1	1:SP:100:TYR:O	2.32	0.62
1:Sw:232:THR:HG22	1:Sw:235:GLU:HG3	1.80	0.62
1:Sx:150:ALA:HB3	1:Sx:168:LEU:HD13	1.80	0.62
1:Sx:399:PHE:HE1	1:Sz:401:ARG:HB3	1.65	0.62
1:Sy:77:THR:HG23	1:Sy:80:THR:H	1.63	0.62
3:Us:39:THR:HB	3:Uu:166:HIS:HE1	1.64	0.62
3:Vt:65:LYS:O	3:Vt:217:ARG:NH1	2.32	0.62
4:Wk:118:LYS:HE3	4:Wk:144:GLU:HA	1.81	0.62
4:Wl:3:GLN:OE1	4:Wl:25:LYS:NZ	2.31	0.62
4:Wm:86:VAL:HG22	4:Wm:87:ASN:H	1.64	0.62
4:XJ:19:LEU:N	5:Yc:919:TYR:O	2.30	0.62
5:YX:523:ARG:HB2	5:YX:535:VAL:HG13	1.80	0.62
6:ZD:229:LEU:O	6:ZD:232:GLN:NE2	2.28	0.62
7:bO:332:GLU:OE1	7:bO:332:GLU:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cF:639:THR:HB	7:cG:624:VAL:HG12	1.81	0.62
7:cO:159:GLU:HB3	7:cO:163:LEU:HA	1.80	0.62
8:eU:98:TYR:HB2	8:eU:332:LYS:HG3	1.80	0.62
8:eU:243:ILE:HD11	8:eU:252:LEU:HB3	1.81	0.62
8:fA:412:ASN:OD1	8:fA:486:ARG:NH1	2.32	0.62
8:fA:489:GLN:HA	8:fA:620:THR:HG22	1.79	0.62
8:fU:504:GLN:NE2	8:fU:597:TYR:O	2.32	0.62
10:gd:85:ASP:OD1	10:gd:86:THR:N	2.32	0.62
11:hl:72:THR:HG22	11:hl:154:GLU:HG3	1.80	0.62
17:q3:144:ASN:O	17:q3:145:SER:OG	2.17	0.62
17:q7:257:ARG:NH2	17:q7:260:GLU:OE2	2.27	0.62
1:S0:19:ASP:O	1:S7:33:GLN:NE2	2.30	0.62
1:S2:31:ASP:OD1	1:S2:31:ASP:N	2.31	0.62
1:S5:287:VAL:O	1:S5:294:GLN:NE2	2.32	0.62
2:T5:31:ILE:HD13	2:T7:31:ILE:HD11	1.81	0.62
2:Tg:63:ALA:HB3	2:Ti:83:THR:HA	1.82	0.62
4:Wl:13:ASP:O	5:YX:986:ARG:NH2	2.32	0.62
4:Wl:62:ALA:HA	4:Wl:68:TYR:HE2	1.64	0.62
4:Wl:191:ILE:O	4:Wn:164:ARG:NH2	2.33	0.62
4:Wo:292:PRO:HA	4:Wo:368:ILE:HG13	1.80	0.62
4:XI:79:ILE:HG13	4:XI:109:LEU:HA	1.81	0.62
4:XI:329:PHE:HB3	4:XI:332:VAL:HB	1.81	0.62
4:XI:488:VAL:HG22	4:XK:486:VAL:HG12	1.82	0.62
4:XI:472:TYR:HA	4:Xn:416:ILE:HG23	1.81	0.62
5:YX:867:LYS:HG2	5:YX:893:ILE:HB	1.82	0.62
5:Yx:573:VAL:HG22	5:Yx:610:ILE:HB	1.80	0.62
7:bR:406:LEU:HD22	7:bR:474:ILE:HG13	1.80	0.62
7:cJ:110:TYR:H	7:cJ:138:GLY:HA3	1.64	0.62
7:dS:103:ILE:HG12	7:dS:182:ILE:HG22	1.81	0.62
7:dV:29:LEU:O	7:dV:80:VAL:HA	2.00	0.62
7:dW:470:LEU:HD23	7:dW:525:VAL:HG21	1.80	0.62
8:eB:400:ASN:ND2	8:eB:404:ILE:O	2.32	0.62
8:eU:364:THR:OG1	8:eU:365:ASP:N	2.32	0.62
8:f9:110:ILE:HD12	8:f9:302:GLU:HA	1.82	0.62
8:fA:400:ASN:H	8:fB:341:THR:HG22	1.64	0.62
11:hv:100:THR:OG1	11:hv:101:GLY:N	2.28	0.62
16:o0:314:CYS:HA	16:o0:350:GLU:HA	1.81	0.62
1:SO:118:PRO:HB3	1:SP:106:ALA:HA	1.80	0.62
1:Sv:13:SER:HB2	1:Sx:18:PHE:HA	1.82	0.62
1:Sv:96:GLY:HA2	1:Sz:97:LEU:HD13	1.81	0.62
1:Sv:478:ASP:N	1:Sv:478:ASP:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sw:424:ARG:O	1:Sy:504:ARG:NH2	2.32	0.62
1:Sx:33:GLN:NE2	1:Sz:19:ASP:O	2.32	0.62
2:T7:199:MET:HG2	2:T7:282:GLN:HB3	1.81	0.62
3:Uq:147:LYS:NZ	3:Uq:148:ASP:O	2.31	0.62
3:VM:17:PHE:O	3:VN:13:ARG:NH2	2.32	0.62
4:WJ:507:ASP:OD1	4:WJ:511:ASN:N	2.33	0.62
4:Wm:92:VAL:HG12	4:Wm:136:VAL:HG12	1.81	0.62
4:XJ:60:LEU:HD21	4:XJ:79:ILE:HG22	1.82	0.62
4:Xj:406:LEU:HD13	4:Xn:403:THR:HG21	1.81	0.62
4:Xm:116:THR:HB	4:Xm:121:ALA:HB2	1.81	0.62
5:Yx:428:GLN:HG2	5:Yx:429:PRO:HD2	1.81	0.62
7:b8:90:LYS:NZ	7:b8:190:ASP:OD1	2.33	0.62
7:b9:228:GLY:HA2	7:b9:345:SER:HB3	1.80	0.62
7:bP:624:VAL:HG12	7:cN:639:THR:HB	1.82	0.62
7:bY:134:VAL:HG13	7:bY:138:GLY:HA2	1.81	0.62
7:cE:495:ASN:OD1	7:cE:495:ASN:N	2.31	0.62
7:cH:487:THR:HG21	7:cH:559:MET:HE3	1.80	0.62
7:cI:571:ARG:NH2	7:cI:587:GLU:OE1	2.32	0.62
7:cK:571:ARG:NH2	7:cK:587:GLU:OE1	2.29	0.62
8:fs:10:LEU:HD21	8:fs:18:PRO:HG3	1.80	0.62
11:hg:113:VAL:HG13	11:hg:127:ILE:HG23	1.82	0.62
16:o2:253:TRP:O	16:pB:303:LYS:NZ	2.32	0.62
1:S2:166:GLN:NE2	1:S3:150:ALA:O	2.32	0.62
1:S7:493:GLU:HG3	1:S7:496:ARG:HH21	1.64	0.62
1:SA:145:SER:O	1:SA:164:LYS:NZ	2.29	0.62
2:T4:53:GLY:HA2	2:T4:59:GLN:H	1.64	0.62
2:T4:53:GLY:HA3	2:T6:7:LYS:HE2	1.82	0.62
2:TH:219:ILE:HG21	2:TH:254:PHE:HE2	1.63	0.62
4:WI:119:GLY:H	4:WI:142:ARG:HH12	1.48	0.62
4:XI:314:ASN:N	4:XI:380:ILE:O	2.32	0.62
5:YC:15:LYS:HB3	5:YC:22:GLN:HB3	1.82	0.62
5:YX:613:LYS:HG3	8:eW:619:GLN:HB2	1.80	0.62
5:YX:887:GLY:H	8:fR:364:THR:HB	1.64	0.62
6:ZE:19:GLU:OE2	6:ZE:23:ASN:ND2	2.32	0.62
6:ZE:210:VAL:HG21	6:ZE:242:VAL:HG21	1.82	0.62
7:b0:199:GLU:HB2	7:b5:467:TRP:HZ3	1.64	0.62
7:b0:202:GLU:OE1	7:b0:203:ALA:N	2.30	0.62
7:b6:432:ALA:HB2	7:b6:440:ASN:HD22	1.65	0.62
7:bQ:366:GLU:OE2	7:cO:514:ARG:NH1	2.32	0.62
7:bR:147:THR:OG1	7:bR:147:THR:O	2.12	0.62
7:cD:70:ASN:OD1	7:cD:457:GLN:NE2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cE:247:GLY:HA2	7:cE:266:LYS:HG3	1.81	0.62
7:cP:394:VAL:HG11	7:cP:443:ILE:HD12	1.81	0.62
8:fU:67:ILE:HG21	8:fr:67:ILE:HG13	1.81	0.62
11:hI:147:ASN:ND2	11:hw:63:ASP:OD2	2.33	0.62
11:hh:39:THR:HG22	11:hh:71:VAL:HG22	1.81	0.62
1:S4:350:ALA:O	1:S6:382:ARG:NH1	2.32	0.62
1:S6:239:ASN:OD1	1:S6:253:ARG:NH2	2.31	0.62
1:SO:463:THR:HG21	1:SP:490:ILE:HD12	1.81	0.62
1:SQ:29:ILE:HG22	1:SQ:30:THR:H	1.65	0.62
1:Sv:319:VAL:HG13	1:Sz:313:ALA:HB3	1.81	0.62
2:T2:53:GLY:HA3	2:T3:7:LYS:HE2	1.81	0.62
2:T9:194:ARG:HH21	2:T9:259:ASN:HA	1.64	0.62
3:Vq:4:LEU:HD22	4:Xm:356:TYR:HD2	1.65	0.62
4:WK:19:LEU:HB2	5:YC:992:PRO:HB2	1.81	0.62
4:Wn:555:CYS:O	5:YX:206:GLN:NE2	2.33	0.62
4:Wo:276:LEU:HB3	4:Wo:280:ILE:HB	1.80	0.62
4:Wo:326:MET:HG3	4:Wo:327:PRO:HD3	1.81	0.62
4:Xj:198:ASN:ND2	4:Xl:243:GLN:OE1	2.33	0.62
4:Xl:237:ASN:OD1	4:Xl:238:ILE:N	2.33	0.62
5:YC:853:ASP:OD1	5:YC:853:ASP:N	2.31	0.62
5:YC:981:GLN:HG2	5:YC:982:LEU:H	1.64	0.62
5:Yc:240:GLN:HB3	5:Yc:245:THR:HA	1.80	0.62
5:Yc:369:ASP:OD1	5:Yc:436:THR:OG1	2.17	0.62
5:Yx:378:LEU:HB3	5:Yx:403:ILE:HB	1.80	0.62
7:b0:209:ASP:OD1	7:b0:209:ASP:N	2.32	0.62
7:b8:166:ASN:N	7:b8:166:ASN:OD1	2.28	0.62
7:bP:2:THR:OG1	7:bP:3:LEU:N	2.27	0.62
7:cF:406:LEU:HD13	7:cF:475:ALA:HB2	1.81	0.62
7:cI:455:LYS:NZ	7:cI:473:ASP:OD1	2.33	0.62
7:cM:488:TRP:O	7:cM:552:ASN:ND2	2.32	0.62
8:eB:209:TRP:NE1	8:eB:213:SER:O	2.29	0.62
8:eW:64:THR:OG1	8:fs:63:ASN:ND2	2.31	0.62
17:q8:218:MET:HE3	17:q8:243:PHE:CG	2.35	0.62
1:S1:117:THR:H	1:S1:120:LYS:HZ3	1.48	0.62
1:S4:212:PRO:HG3	1:S6:199:VAL:HG12	1.81	0.62
1:Sv:512:THR:HA	1:Sx:442:MET:HA	1.82	0.62
1:Sw:118:PRO:HB3	1:Sy:106:ALA:HA	1.82	0.62
1:Sw:429:CYS:SG	1:Sy:515:TRP:NE1	2.73	0.62
1:Sx:514:PRO:O	1:Sx:516:ASN:ND2	2.32	0.62
2:T1:10:ILE:HB	2:T3:32:ASN:HD21	1.65	0.62
2:T1:204:VAL:HG11	2:T1:252:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TG:193:HIS:HB3	2:TG:196:GLU:HG3	1.81	0.62
3:Vt:109:VAL:HG13	3:Vt:178:ILE:HD13	1.80	0.62
4:WI:304:ILE:HD12	4:WI:385:TRP:HA	1.80	0.62
4:Wk:103:ASN:O	4:Wk:105:ASN:N	2.33	0.62
4:Wl:472:TYR:HA	4:Wn:416:ILE:HG23	1.81	0.62
4:XK:18:TYR:HB2	4:XK:21:LYS:HB2	1.82	0.62
4:XK:202:TYR:OH	4:XK:223:VAL:O	2.17	0.62
4:Xj:214:SER:OG	4:Xj:222:LEU:O	2.17	0.62
4:Xj:261:ARG:HH21	4:Xj:299:ILE:HD13	1.65	0.62
4:Xk:557:TYR:OH	4:Xm:556:GLN:OE1	2.15	0.62
5:YX:220:LYS:NZ	5:YX:287:LEU:O	2.29	0.62
5:Yy:695:PRO:O	5:Yy:725:ARG:NH1	2.32	0.62
6:Zb:92:ARG:HB2	6:Zb:208:ILE:HG23	1.81	0.62
6:aZ:138:ASP:HA	6:aZ:150:LYS:HE3	1.81	0.62
7:b8:444:SER:OG	7:b8:543:SER:OG	2.18	0.62
7:b9:514:ARG:NH1	7:cD:366:GLU:OE2	2.33	0.62
7:cI:198:ILE:HG23	7:cI:324:PHE:HE2	1.63	0.62
7:cM:28:ALA:HB2	7:cM:370:VAL:HG21	1.82	0.62
7:dT:403:CYS:O	7:dT:558:ASN:ND2	2.32	0.62
8:fA:132:LEU:HD21	9:gG:42:GLY:HA2	1.82	0.62
8:fR:489:GLN:HA	8:fR:620:THR:HG22	1.81	0.62
9:gG:320:THR:HB	9:gG:324:ALA:HB2	1.82	0.62
11:hp:23:VAL:HG11	11:hp:39:THR:HG21	1.82	0.62
17:q8:166:SER:OG	17:q9:14:ALA:O	2.17	0.62
17:q9:201:VAL:HG13	17:q9:214:VAL:HG22	1.80	0.62
1:S4:356:SER:HB2	1:S6:339:ARG:HG3	1.82	0.62
1:S4:486:ASP:HB2	1:S6:444:TYR:HB2	1.81	0.62
1:SO:161:THR:HG21	1:SP:156:ASP:HA	1.80	0.62
1:SP:399:PHE:HE1	1:SQ:401:ARG:HB3	1.65	0.62
2:T1:84:ARG:HE	2:T3:64:THR:HA	1.65	0.62
2:T1:215:LYS:HG3	2:T1:239:ARG:HG2	1.82	0.62
2:T9:69:LYS:HG2	2:T9:86:ASP:HB3	1.80	0.62
2:Ti:36:ASN:O	2:Ti:40:ASN:ND2	2.31	0.62
4:XI:206:PHE:HZ	4:XI:221:GLU:HG3	1.65	0.62
4:Xj:215:PRO:HG2	4:Xj:222:LEU:HD23	1.81	0.62
5:YC:974:ASN:OD1	5:YC:976:SER:OG	2.16	0.62
5:Yc:104:ALA:C	5:Yc:105:THR:HG1	2.07	0.62
5:Yc:853:ASP:N	5:Yc:853:ASP:OD1	2.33	0.62
7:b0:26:THR:HA	7:b0:77:ASP:O	1.99	0.62
7:b0:239:VAL:HG22	7:b0:280:ALA:HB3	1.81	0.62
7:b4:209:ASP:OD1	7:b4:209:ASP:N	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b6:559:MET:SD	7:b6:563:ASN:ND2	2.73	0.62
7:bP:239:VAL:HG22	7:bP:280:ALA:HB3	1.82	0.62
7:cN:198:ILE:HG23	7:cN:324:PHE:HE2	1.63	0.62
7:cO:455:LYS:HG3	7:cO:502:VAL:HG13	1.81	0.62
7:dT:394:VAL:HG11	7:dT:443:ILE:HD12	1.82	0.62
8:eB:76:TYR:OH	14:kV:29:PHE:O	2.15	0.62
8:eW:557:PRO:HB2	8:eW:586:ARG:HG3	1.81	0.62
8:fR:253:THR:OG1	8:fR:254:ALA:N	2.28	0.62
8:fU:157:LYS:H	8:fU:157:LYS:HZ3	1.47	0.62
11:hJ:39:THR:HG22	11:hJ:71:VAL:HG22	1.82	0.62
11:hM:46:VAL:HG22	11:hM:64:ARG:HE	1.65	0.62
11:hr:139:GLU:OE2	11:hr:141:GLN:NE2	2.31	0.62
16:o2:262:LEU:HD23	16:pB:307:LYS:HB2	1.80	0.62
1:S1:160:MET:HA	1:S1:164:LYS:HZ1	1.64	0.62
1:S6:9:VAL:HG22	4:Xn:196:ARG:HH12	1.64	0.62
1:SA:173:ILE:HD13	1:Sy:170:ILE:HG23	1.81	0.62
1:Sv:50:ALA:HA	1:Sv:56:GLY:HA3	1.81	0.62
1:Sv:276:ASP:OD1	1:Sx:260:ARG:NH2	2.26	0.62
1:Sv:481:SER:OG	1:Sx:449:GLY:O	2.18	0.62
2:T7:124:ILE:HD12	2:T7:137:LEU:HD23	1.82	0.62
2:Td:213:LYS:NZ	2:Td:241:GLY:O	2.30	0.62
3:UM:4:LEU:O	4:WK:318:GLN:NE2	2.33	0.62
3:Up:16:ASP:HB3	3:Up:42:GLN:HG3	1.81	0.62
3:Ur:42:GLN:NE2	3:Ur:51:ASN:OD1	2.33	0.62
3:Vr:14:LEU:O	3:Vr:17:PHE:N	2.22	0.62
3:Vr:52:ILE:HG23	3:Vt:56:ILE:HD11	1.81	0.62
4:Wk:527:LEU:HD11	4:Wm:527:LEU:HD22	1.81	0.62
4:XI:49:TRP:O	4:XK:90:ASN:ND2	2.33	0.62
4:XI:214:SER:HB2	4:XI:215:PRO:HD2	1.82	0.62
4:Xk:70:ILE:HB	4:Xk:102:TRP:HZ2	1.65	0.62
4:Xm:3:GLN:OE1	4:Xm:25:LYS:NZ	2.33	0.62
5:YC:124:GLN:O	5:YC:128:THR:OG1	2.17	0.62
5:YY:696:ARG:HA	5:YY:725:ARG:HD3	1.81	0.62
6:Zb:137:PRO:HG3	6:Zb:185:GLY:HA3	1.82	0.62
6:Zc:202:ARG:O	6:Zc:248:ARG:NH1	2.33	0.62
7:b0:490:SER:O	7:b0:496:ARG:NH1	2.32	0.62
7:b3:432:ALA:HB2	7:b3:440:ASN:HD22	1.65	0.62
7:b4:256:PRO:HG2	7:b4:339:THR:H	1.65	0.62
7:b8:129:GLY:HA3	7:b8:145:ILE:HD13	1.82	0.62
7:bO:571:ARG:NH2	7:bO:587:GLU:OE1	2.33	0.62
7:bQ:135:ASP:HB3	7:bQ:139:LYS:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cB:394:VAL:HG11	7:cB:443:ILE:HD12	1.81	0.62
7:cF:455:LYS:HD2	7:cF:502:VAL:HG22	1.82	0.62
7:cK:645:THR:OG1	7:cP:629:ILE:O	2.18	0.62
7:cN:487:THR:HG21	7:cN:559:MET:HE3	1.82	0.62
7:cP:66:MET:HG2	7:cP:468:VAL:HG21	1.80	0.62
7:dT:116:ILE:N	7:dT:129:GLY:O	2.27	0.62
7:dV:90:LYS:NZ	7:dV:190:ASP:OD1	2.33	0.62
7:dZ:585:ARG:NH2	17:q9:98:GLN:OE1	2.33	0.62
8:eU:425:ALA:O	8:eU:427:ASN:N	2.32	0.62
11:hi:72:THR:HG22	11:hi:154:GLU:HG3	1.82	0.62
16:o1:130:PRO:O	16:o1:209:TRP:NE1	2.32	0.62
16:o6:130:PRO:O	16:o6:209:TRP:NE1	2.33	0.62
16:pA:47:ASP:OD2	17:q8:95:ARG:NH1	2.33	0.62
17:q8:200:GLN:NE2	17:q8:202:ASN:OD1	2.33	0.62
2:T1:284:ILE:HG23	2:T3:178:THR:HG21	1.82	0.61
2:T5:282:GLN:NE2	2:T9:275:ALA:O	2.33	0.61
2:Tf:36:ASN:OD1	2:Th:7:LYS:NZ	2.32	0.61
3:Ur:39:THR:OG1	3:Ur:42:GLN:OE1	2.14	0.61
4:WI:70:ILE:HB	4:WI:102:TRP:HZ2	1.64	0.61
4:WJ:180:VAL:HG13	4:WJ:181:PHE:H	1.65	0.61
4:WJ:502:ASN:ND2	4:WJ:516:ALA:O	2.33	0.61
4:Wj:109:LEU:HB3	4:Wj:124:VAL:HG23	1.82	0.61
4:Wm:151:ILE:HD12	4:Wm:152:ASP:H	1.64	0.61
4:XK:193:VAL:HG13	4:XK:199:GLU:HB3	1.81	0.61
4:Xk:488:VAL:HG22	4:Xo:486:VAL:HG12	1.82	0.61
4:Xl:223:VAL:HB	4:Xl:224:PRO:HD3	1.81	0.61
5:YY:853:ASP:OD1	5:YY:853:ASP:N	2.32	0.61
5:Yx:436:THR:HG22	5:Yx:441:VAL:HA	1.80	0.61
5:Yy:922:ASP:O	5:Yy:986:ARG:NH2	2.33	0.61
6:ZE:136:VAL:HG23	6:ZE:150:LYS:HD2	1.81	0.61
7:b5:488:TRP:O	7:b5:552:ASN:ND2	2.33	0.61
7:bO:490:SER:O	7:bO:496:ARG:NH1	2.32	0.61
7:bY:239:VAL:HG22	7:bY:280:ALA:HB3	1.81	0.61
7:cA:455:LYS:NZ	7:cA:457:GLN:OE1	2.32	0.61
8:eB:636:ASP:OD1	8:eB:636:ASP:N	2.31	0.61
8:fA:203:GLY:N	16:o2:97:ASN:OD1	2.33	0.61
8:fA:338:ARG:NH1	8:fB:344:ASP:OD2	2.33	0.61
11:h2:25:ILE:O	11:h2:27:TYR:N	2.33	0.61
11:hg:63:ASP:OD2	11:hm:147:ASN:ND2	2.33	0.61
11:hr:94:GLY:HA3	11:hr:100:THR:HG23	1.82	0.61
12:iF:158:PRO:HB3	12:iF:285:GLU:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:m1:75:ARG:HH12	16:o2:269:LYS:HE2	1.64	0.61
16:o2:212:THR:HG21	17:q7:149:ARG:HG2	1.82	0.61
16:o6:275:GLU:OE2	16:pA:113:ASN:ND2	2.33	0.61
16:pA:323:LYS:HB3	16:pA:339:PRO:HG2	1.81	0.61
1:S2:85:LEU:HD22	1:S3:84:ARG:HD2	1.82	0.61
1:S6:61:PRO:HB3	1:S6:74:LYS:HD3	1.81	0.61
1:Sw:440:GLN:NE2	1:Sy:425:LEU:O	2.32	0.61
1:Sy:405:ARG:HD2	1:Sy:430:THR:HB	1.82	0.61
2:TG:46:ARG:NH2	2:TG:66:TYR:OH	2.33	0.61
2:TG:212:ARG:HG3	2:TG:213:LYS:HG3	1.82	0.61
3:Uq:144:ASN:OD1	3:Uu:32:ARG:NH1	2.31	0.61
3:Vt:16:ASP:OD2	3:Vt:45:LYS:NZ	2.33	0.61
4:WI:9:ASN:HD22	6:ZD:200:ILE:HG21	1.63	0.61
4:WI:199:GLU:HA	4:WJ:196:ARG:HH21	1.65	0.61
4:Wm:104:VAL:HG13	4:Wm:105:ASN:H	1.63	0.61
4:XI:20:ARG:HG2	4:XK:11:VAL:HG13	1.82	0.61
4:Xj:277:GLU:HA	4:Xj:295:ALA:HA	1.82	0.61
4:Xo:93:ILE:HG12	4:Xo:135:LEU:HG	1.82	0.61
5:YX:4:LYS:HA	5:YX:90:GLU:HB3	1.82	0.61
5:Yc:932:ARG:HG3	5:Yc:1005:ARG:HH22	1.65	0.61
6:aD:89:VAL:O	6:aD:246:THR:OG1	2.18	0.61
7:bO:455:LYS:NZ	7:bO:457:GLN:OE1	2.33	0.61
7:bQ:394:VAL:HG11	7:bQ:443:ILE:HD12	1.82	0.61
7:cE:109:ASN:H	7:cE:137:ASP:HB2	1.65	0.61
8:eW:346:ASP:N	8:eW:346:ASP:OD1	2.32	0.61
8:f9:619:GLN:HG2	8:f9:620:THR:HG23	1.81	0.61
8:fr:150:ASP:OD1	8:fr:150:ASP:N	2.32	0.61
11:hM:114:ARG:HG2	11:hM:126:GLU:HG3	1.81	0.61
11:hX:25:ILE:O	11:hX:27:TYR:N	2.33	0.61
12:iC:51:MET:HG2	16:o0:162:LEU:HD13	1.80	0.61
1:S0:5:THR:HG21	4:Xk:200:LEU:HB2	1.82	0.61
1:Sv:356:SER:HB2	1:Sx:339:ARG:HG3	1.83	0.61
3:UM:39:THR:HB	3:UN:166:HIS:HE1	1.66	0.61
4:WI:92:VAL:HG12	4:WI:136:VAL:HG12	1.82	0.61
4:WJ:463:ALA:HB2	4:WK:459:ILE:HD11	1.82	0.61
4:Wn:102:TRP:O	4:Wn:103:ASN:HB2	2.00	0.61
4:XJ:223:VAL:HB	4:XJ:224:PRO:HD3	1.81	0.61
4:Xj:303:PRO:O	4:Xj:387:ASN:ND2	2.32	0.61
4:Xj:404:ASP:O	4:Xn:410:GLN:NE2	2.33	0.61
4:Xn:92:VAL:HG12	4:Xn:136:VAL:HG12	1.81	0.61
4:Xn:469:PRO:HA	4:Xn:472:TYR:CZ	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:192:LEU:HD13	5:YY:201:LEU:HD12	1.82	0.61
5:Yc:382:GLU:N	5:Yc:382:GLU:OE1	2.33	0.61
5:Yx:404:TYR:HB2	5:Yx:413:TRP:CE3	2.35	0.61
5:Yx:793:CYS:HB3	5:Yx:813:ILE:HG23	1.81	0.61
6:ZE:274:ILE:HD11	6:ZE:330:ILE:HD12	1.82	0.61
7:bO:303:ASP:OD2	7:bO:307:SER:OG	2.17	0.61
7:cF:455:LYS:HG3	7:cF:502:VAL:HG13	1.81	0.61
7:cH:571:ARG:NH1	7:cH:583:SER:OG	2.34	0.61
7:dV:23:SER:OG	7:dV:24:THR:N	2.32	0.61
8:eB:569:ILE:HD13	8:eB:609:ILE:HA	1.81	0.61
11:h2:114:ARG:HG2	11:h2:126:GLU:HG3	1.82	0.61
11:hq:114:ARG:HG2	11:hq:126:GLU:HG3	1.81	0.61
11:hw:139:GLU:OE2	11:hw:141:GLN:NE2	2.32	0.61
15:m2:101:ASP:OD1	15:m2:101:ASP:N	2.28	0.61
17:q8:218:MET:HA	17:q8:245:TYR:HA	1.81	0.61
1:S4:72:ASN:ND2	1:S8:61:PRO:O	2.34	0.61
1:S5:29:ILE:HG22	1:S5:30:THR:H	1.64	0.61
1:Sy:386:ASN:HD21	1:Sy:389:ASN:HB2	1.66	0.61
2:T5:36:ASN:OD1	2:T7:7:LYS:NZ	2.29	0.61
2:TG:215:LYS:HD3	2:TG:250:ALA:HB3	1.82	0.61
2:TH:100:ARG:NH1	2:TH:155:ASN:O	2.33	0.61
3:Up:40:ILE:HG13	3:Ur:168:LEU:HD21	1.81	0.61
3:Ur:82:VAL:HG23	3:Ur:187:LYS:HE3	1.83	0.61
3:VL:52:ILE:HG23	3:VM:56:ILE:HD11	1.81	0.61
4:WI:556:GLN:HG2	5:YC:185:LYS:HD3	1.83	0.61
4:WJ:213:GLY:HA2	4:WJ:221:GLU:HB2	1.81	0.61
4:Xj:339:GLU:HG3	4:Xj:340:VAL:HG13	1.82	0.61
4:Xo:149:LYS:HG3	4:Xo:154:ILE:HD13	1.83	0.61
5:YX:154:SER:O	5:YX:156:SER:N	2.33	0.61
5:YX:327:ARG:HG2	5:YX:354:THR:H	1.64	0.61
7:b6:394:VAL:HG11	7:b6:443:ILE:HD12	1.81	0.61
7:b8:612:ASN:HB3	7:b8:624:VAL:HG23	1.83	0.61
7:bO:2:THR:OG1	7:bO:3:LEU:N	2.33	0.61
7:cF:571:ARG:NH2	7:cF:587:GLU:OE1	2.32	0.61
7:cH:166:ASN:OD1	7:cH:166:ASN:N	2.33	0.61
7:cJ:490:SER:O	7:cJ:496:ARG:NH1	2.33	0.61
7:cK:617:VAL:HG22	7:cK:622:GLU:HB2	1.82	0.61
7:dZ:635:ILE:HG21	15:m2:104:LEU:HG	1.81	0.61
8:eU:588:LYS:NZ	8:eU:590:TYR:OH	2.26	0.61
8:eU:609:ILE:O	8:eU:610:ASN:HB2	2.00	0.61
8:eW:127:ARG:NH1	8:eW:271:GLU:OE1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f9:377:LYS:HD3	8:f9:379:LYS:H	1.64	0.61
8:fS:514:THR:HG22	8:fS:539:ARG:HD2	1.82	0.61
11:hJ:23:VAL:HG11	11:hJ:39:THR:HG21	1.83	0.61
11:ho:19:ASN:OD1	11:ho:19:ASN:N	2.29	0.61
11:hw:28:LEU:HD22	11:hw:84:LYS:HB3	1.83	0.61
16:o2:318:SER:HB3	16:o2:347:THR:HG23	1.82	0.61
16:o6:245:GLU:HB3	16:o6:264:PRO:HB3	1.81	0.61
1:S8:152:ALA:HB2	3:Uq:82:VAL:HG11	1.81	0.61
1:SQ:101:SER:O	1:SQ:120:LYS:NZ	2.33	0.61
2:T4:218:GLU:OE1	2:T6:201:LYS:NZ	2.30	0.61
2:TG:53:GLY:HA3	2:TH:7:LYS:HE2	1.81	0.61
3:UM:52:ILE:HG23	3:UN:56:ILE:HD11	1.81	0.61
3:Us:55:ALA:HB1	3:Uu:56:ILE:HG21	1.82	0.61
3:Vs:70:ILE:HG12	3:Vu:73:ASN:HA	1.81	0.61
4:WJ:223:VAL:HB	4:WJ:224:PRO:HD3	1.83	0.61
4:Wj:87:ASN:HD21	4:Wn:439:TYR:HB3	1.65	0.61
4:Wj:261:ARG:HH21	4:Wj:299:ILE:HD13	1.65	0.61
4:Wl:213:GLY:HA3	4:Wl:231:ARG:HB3	1.82	0.61
4:Wm:165:LYS:HZ2	4:Wm:181:PHE:HA	1.64	0.61
4:Xm:86:VAL:HG22	4:Xm:87:ASN:H	1.65	0.61
5:YC:923:SER:OG	5:YC:990:MET:SD	2.58	0.61
5:YY:4:LYS:HA	5:YY:90:GLU:HB3	1.83	0.61
5:YY:715:LEU:HD11	6:Zc:54:VAL:HG21	1.81	0.61
5:Yx:232:PRO:HG3	5:Yx:237:VAL:HG22	1.81	0.61
6:aa:113:VAL:O	6:aa:120:ASN:ND2	2.32	0.61
6:ab:115:ASN:HA	6:ab:121:ALA:HA	1.82	0.61
7:b4:11:LYS:HG2	7:b4:13:THR:HG23	1.83	0.61
7:b6:654:LEU:HD13	7:cA:605:ARG:HD3	1.83	0.61
7:cK:514:ARG:NH1	7:cP:366:GLU:OE2	2.33	0.61
7:dV:571:ARG:NH2	7:dV:587:GLU:OE2	2.32	0.61
8:fs:339:CYS:HB3	8:fs:348:PHE:HD2	1.64	0.61
8:fs:526:PRO:O	9:gE:247:ARG:NH1	2.33	0.61
9:gH:320:THR:HB	9:gH:324:ALA:HB2	1.83	0.61
11:hm:22:GLN:HB2	11:hm:116:TYR:HE2	1.65	0.61
11:ht:39:THR:HG22	11:ht:71:VAL:HG22	1.82	0.61
14:kV:54:PRO:HG2	14:kV:59:LEU:HD12	1.83	0.61
15:m2:121:GLN:HB2	15:m2:124:LEU:HB2	1.82	0.61
1:S6:31:ASP:OD1	1:S6:31:ASP:N	2.32	0.61
1:SA:371:ASP:OD1	1:SA:526:LYS:NZ	2.32	0.61
1:Sv:357:ASP:OD1	1:Sv:357:ASP:N	2.25	0.61
1:Sw:422:LYS:NZ	1:Sy:498:SER:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UL:15:ALA:HA	3:UL:18:LEU:HB2	1.82	0.61
3:Uq:58:ASP:OD1	3:Us:164:GLN:NE2	2.34	0.61
3:VM:14:LEU:O	3:VM:17:PHE:N	2.21	0.61
4:WI:557:TYR:OH	4:WJ:556:GLN:OE1	2.15	0.61
4:WJ:92:VAL:HG12	4:WJ:136:VAL:HG12	1.82	0.61
4:WK:153:LYS:HD2	4:WK:153:LYS:H	1.65	0.61
4:Wn:290:SER:HA	4:Wn:371:PHE:N	2.15	0.61
5:YX:678:GLY:O	5:YX:684:ASN:ND2	2.34	0.61
5:YX:723:VAL:HG13	8:eU:257:ILE:HD11	1.82	0.61
5:Yc:867:LYS:HG2	5:Yc:893:ILE:HB	1.82	0.61
5:Yx:42:LYS:NZ	5:Yx:47:GLU:OE1	2.26	0.61
7:b6:66:MET:HG2	7:b6:468:VAL:HG21	1.83	0.61
7:cG:463:ASP:OD1	7:cH:317:LYS:NZ	2.34	0.61
8:fS:372:ALA:HB2	8:fS:404:ILE:HD11	1.81	0.61
8:fr:211:ARG:O	8:fr:399:TYR:OH	2.19	0.61
8:fs:125:ILE:HB	8:fs:151:VAL:HG13	1.83	0.61
9:gG:531:ASN:ND2	9:gH:523:GLU:OE1	2.34	0.61
11:hL:19:ASN:OD1	11:hL:19:ASN:N	2.30	0.61
11:hq:113:VAL:HG13	11:hq:127:ILE:HG12	1.81	0.61
12:iF:98:ASP:O	12:iF:100:LYS:N	2.34	0.61
14:k7:55:ARG:NH2	14:k7:82:PRO:O	2.32	0.61
15:m2:65:MET:HE3	15:m2:99:TYR:HA	1.82	0.61
1:S0:130:GLU:HA	1:S5:139:ASN:HD21	1.66	0.61
1:S1:96:GLY:HA2	1:S3:97:LEU:HD13	1.82	0.61
1:S4:401:ARG:NH1	1:S4:438:GLN:OE1	2.33	0.61
1:S4:504:ARG:NH1	1:S6:510:ASN:O	2.34	0.61
1:S7:117:THR:HG23	1:S7:120:LYS:H	1.65	0.61
1:SO:143:LYS:HA	1:SP:134:SER:HB2	1.83	0.61
1:Sw:161:THR:HG21	1:Sy:156:ASP:HA	1.81	0.61
1:Sz:5:THR:HA	4:Wl:196:ARG:HD2	1.83	0.61
1:Sz:150:ALA:HB3	1:Sz:168:LEU:HD12	1.82	0.61
2:T1:222:LEU:HD11	2:T3:214:ILE:HD11	1.81	0.61
2:T6:40:ASN:HB3	2:T6:45:GLN:HG2	1.82	0.61
2:T9:36:ASN:O	2:T9:40:ASN:ND2	2.33	0.61
3:Ut:4:LEU:HD13	4:Wj:356:TYR:HE2	1.65	0.61
3:Uu:113:PRO:HB2	4:Wo:269:LYS:HD2	1.83	0.61
4:WI:164:ARG:NH2	4:WI:243:GLN:OE1	2.33	0.61
4:Wm:312:ARG:HG2	4:Wm:317:LEU:HA	1.83	0.61
4:XI:92:VAL:HG12	4:XI:136:VAL:HG12	1.82	0.61
5:YX:106:ASN:ND2	5:YX:130:ASN:OD1	2.34	0.61
5:Yc:404:TYR:HB2	5:Yc:413:TRP:CE3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:746:PHE:O	5:Yx:750:VAL:HG13	2.01	0.61
5:Yy:546:GLU:OE1	5:Yy:547:ASN:N	2.32	0.61
6:Za:174:GLY:HA3	6:Za:180:ILE:HG12	1.83	0.61
6:Zc:137:PRO:HG3	6:Zc:185:GLY:HA3	1.82	0.61
7:b0:394:VAL:HG11	7:b0:443:ILE:HD12	1.83	0.61
7:b3:514:ARG:NH1	7:b8:366:GLU:OE2	2.33	0.61
7:b4:202:GLU:OE1	7:b4:203:ALA:N	2.30	0.61
7:bP:601:ILE:HD13	7:bP:629:ILE:HB	1.81	0.61
7:bY:478:CYS:O	7:bY:555:ARG:NH1	2.33	0.61
7:cA:514:ARG:NH1	7:cJ:366:GLU:OE2	2.34	0.61
7:cH:198:ILE:HG23	7:cH:324:PHE:HE2	1.66	0.61
7:cK:246:LYS:HB2	7:cK:250:ALA:HB2	1.82	0.61
7:cK:455:LYS:HE2	7:cK:502:VAL:HG22	1.82	0.61
7:dT:585:ARG:NH2	17:q5:98:GLN:OE1	2.31	0.61
7:dZ:23:SER:OG	7:dZ:24:THR:N	2.32	0.61
9:gH:528:ASN:OD1	9:gH:528:ASN:N	2.34	0.61
1:S1:39:ILE:HD13	1:S3:39:ILE:HD13	1.82	0.61
1:S4:199:VAL:HA	1:S8:212:PRO:HB3	1.81	0.61
1:S8:66:VAL:HG21	1:S8:80:THR:HB	1.82	0.61
1:SO:139:ASN:HD21	1:SQ:130:GLU:HA	1.65	0.61
1:SO:207:GLY:HA2	1:SQ:193:LEU:HD11	1.83	0.61
1:SO:278:SER:HA	1:SQ:265:LEU:HD11	1.82	0.61
1:Sv:97:LEU:HB3	1:Sx:95:TYR:HB3	1.83	0.61
1:Sv:263:VAL:HG12	1:Sv:278:SER:HB3	1.82	0.61
2:T7:64:THR:HA	2:T9:84:ARG:HE	1.65	0.61
2:Tf:40:ASN:HB3	2:Tf:45:GLN:HG2	1.81	0.61
4:WJ:260:ARG:O	4:WJ:261:ARG:NH1	2.34	0.61
4:Wj:86:VAL:HG22	4:Wj:87:ASN:H	1.66	0.61
4:Wj:303:PRO:O	4:Wj:387:ASN:ND2	2.34	0.61
4:Wj:557:TYR:OH	4:Wl:556:GLN:OE1	2.17	0.61
4:Wl:110:VAL:HG22	4:Wl:123:PRO:HB3	1.82	0.61
4:Xj:190:ASN:ND2	4:Xj:247:PHE:O	2.27	0.61
4:Xk:109:LEU:HB3	4:Xk:124:VAL:HG23	1.81	0.61
4:Xk:551:ILE:HG13	4:Xo:568:LYS:HG2	1.81	0.61
4:Xl:13:ASP:O	5:Yx:986:ARG:NH2	2.34	0.61
4:Xm:176:ASP:HB3	4:Xm:231:ARG:HG3	1.82	0.61
4:Xn:340:VAL:HG23	4:Xn:341:GLU:HG3	1.82	0.61
4:Xn:354:THR:OG1	4:Xn:359:GLU:OE1	2.19	0.61
5:YX:104:ALA:C	5:YX:105:THR:HG1	2.09	0.61
5:YX:793:CYS:HB3	5:YX:813:ILE:HG23	1.83	0.61
5:YY:922:ASP:O	5:YY:986:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:364:VAL:HG21	5:Yy:396:ILE:HG12	1.83	0.61
7:b5:479:ALA:O	7:b5:483:ASN:ND2	2.34	0.61
7:b6:514:ARG:NH1	7:cA:366:GLU:OE2	2.33	0.61
7:b6:645:THR:OG1	7:cA:629:ILE:O	2.19	0.61
7:cF:26:THR:HA	7:cF:77:ASP:O	2.01	0.61
7:cI:645:THR:OG1	7:cN:629:ILE:O	2.19	0.61
7:dT:202:GLU:OE1	7:dT:203:ALA:N	2.34	0.61
7:dV:585:ARG:NH2	17:q7:98:GLN:OE1	2.32	0.61
8:fU:609:ILE:O	8:fU:610:ASN:HB2	1.99	0.61
12:iC:253:ILE:O	12:iC:265:MET:HA	2.00	0.61
1:SA:193:LEU:HD11	1:Sw:207:GLY:HA2	1.82	0.61
1:SA:449:GLY:HA2	1:Sw:484:THR:HG22	1.81	0.61
1:SA:486:ASP:HB2	1:Sw:444:TYR:HB2	1.83	0.61
1:Sv:260:ARG:NH2	1:Sz:276:ASP:OD1	2.34	0.61
1:Sx:473:LYS:HB3	1:Sz:473:LYS:HD2	1.83	0.61
1:Sz:333:THR:OG1	1:Sz:335:ASN:OD1	2.17	0.61
2:T3:87:ILE:HG21	2:T3:122:LEU:HD12	1.82	0.61
2:T7:168:PHE:HA	2:T9:163:SER:HB3	1.83	0.61
2:TG:124:ILE:HD12	2:TG:137:LEU:HD23	1.82	0.61
3:VM:52:ILE:HG23	3:VN:56:ILE:HD11	1.82	0.61
4:Xl:360:THR:HA	4:Xl:366:PRO:HB3	1.83	0.61
4:Xo:38:GLY:HA2	4:Xo:43:PRO:HA	1.83	0.61
5:YX:911:THR:HG22	6:ZZ:330:ILE:HG12	1.83	0.61
6:aa:115:ASN:HA	6:aa:121:ALA:HA	1.83	0.61
7:b8:11:LYS:HG2	7:b8:13:THR:HG23	1.82	0.61
7:bY:228:GLY:HA2	7:bY:345:SER:HB3	1.82	0.61
7:cF:617:VAL:HG22	7:cF:622:GLU:HB2	1.83	0.61
7:cL:400:ARG:HD3	7:cL:403:CYS:SG	2.41	0.61
8:fB:565:GLU:OE2	8:fB:588:LYS:NZ	2.33	0.61
8:fr:132:LEU:HD21	9:gE:42:GLY:HA2	1.83	0.61
9:gH:375:LEU:HD22	9:gH:455:LYS:HD3	1.81	0.61
1:S0:100:TYR:HH	1:S5:115:SER:HG	1.45	0.61
1:S0:341:ILE:HD11	1:S7:341:ILE:HG13	1.83	0.61
1:SP:429:CYS:SG	1:SQ:515:TRP:NE1	2.74	0.61
2:Tg:213:LYS:HE3	2:Tg:249:ILE:HG12	1.83	0.61
3:UL:39:THR:OG1	3:UL:42:GLN:OE1	2.18	0.61
3:Ur:14:LEU:O	3:Ur:17:PHE:N	2.21	0.61
3:VM:31:ASN:ND2	3:VN:219:ALA:O	2.34	0.61
3:Vp:65:LYS:O	3:Vp:217:ARG:NH1	2.33	0.61
3:Vt:42:GLN:HB3	3:Vt:47:PHE:HB3	1.81	0.61
4:Wl:92:VAL:HG12	4:Wl:136:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:200:LEU:HD11	4:Wo:241:THR:HG21	1.82	0.61
4:Wm:260:ARG:O	4:Wm:261:ARG:NH1	2.33	0.61
4:Xk:9:ASN:N	4:Xk:9:ASN:OD1	2.34	0.61
4:Xl:18:TYR:HA	5:Yx:920:LYS:HA	1.82	0.61
4:Xm:229:ASN:OD1	4:Xm:230:ILE:N	2.34	0.61
4:Xn:312:ARG:HG2	4:Xn:317:LEU:HA	1.82	0.61
5:Yc:154:SER:O	5:Yc:156:SER:N	2.33	0.61
7:b9:47:GLU:OE1	7:b9:461:TYR:OH	2.19	0.61
7:bQ:593:GLN:NE2	17:q5:5:GLU:OE2	2.34	0.61
7:cM:110:TYR:H	7:cM:138:GLY:HA3	1.66	0.61
7:cM:486:GLN:NE2	11:hI:11:GLU:OE1	2.34	0.61
7:cN:400:ARG:NH1	7:cN:402:ASP:OD1	2.34	0.61
7:cO:66:MET:O	7:cO:70:ASN:ND2	2.34	0.61
7:dS:368:VAL:O	7:dS:400:ARG:NH2	2.34	0.61
7:dT:256:PRO:HG2	7:dT:339:THR:H	1.65	0.61
8:f9:255:ASN:OD1	8:f9:255:ASN:N	2.34	0.61
8:fU:414:LEU:HD23	8:fU:486:ARG:HH21	1.65	0.61
8:fW:569:ILE:HD13	8:fW:609:ILE:HA	1.81	0.61
11:hL:64:ARG:HH12	11:hM:95:GLN:HG3	1.66	0.61
11:hX:39:THR:HG22	11:hX:71:VAL:HG22	1.83	0.61
11:hl:82:ARG:NH1	11:hl:138:GLY:HA2	2.16	0.61
16:o0:181:ILE:HG12	16:pB:267:ALA:HA	1.83	0.61
16:o2:260:GLU:HB2	16:o2:261:PRO:HD2	1.82	0.61
16:o6:78:ARG:HB3	16:o6:107:SER:HB2	1.83	0.61
1:S6:422:LYS:NZ	1:S8:498:SER:O	2.34	0.60
1:SA:139:ASN:HD21	1:Sy:130:GLU:HG2	1.66	0.60
3:Uu:120:MET:HE1	3:Uu:128:LYS:HE3	1.83	0.60
3:Vs:52:ILE:HG23	3:Vu:56:ILE:HD11	1.83	0.60
3:Vu:113:PRO:HB2	4:Xo:269:LYS:HD2	1.83	0.60
4:WK:362:GLU:HB2	4:WK:366:PRO:HA	1.83	0.60
4:Wj:266:LEU:HD22	4:Wj:271:THR:HG23	1.83	0.60
4:Wk:38:GLY:HA2	4:Wk:43:PRO:HA	1.83	0.60
4:Wl:19:LEU:N	5:YX:919:TYR:O	2.34	0.60
4:Wo:469:PRO:HB2	4:Wo:478:TRP:CD1	2.36	0.60
4:XJ:360:THR:HA	4:XJ:366:PRO:HB3	1.83	0.60
4:Xj:49:TRP:CD1	4:Xj:67:SER:HG	2.19	0.60
4:Xj:95:ALA:HB3	4:Xj:133:LEU:HB2	1.82	0.60
4:Xo:3:GLN:OE1	4:Xo:25:LYS:NZ	2.34	0.60
4:Xo:344:VAL:HG12	4:Xo:349:TRP:H	1.65	0.60
5:YY:106:ASN:ND2	5:YY:128:THR:O	2.34	0.60
5:Yc:775:ASP:OD1	5:Yc:775:ASP:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b3:455:LYS:HD3	7:b3:502:VAL:HG22	1.83	0.60
7:b4:205:MET:O	7:b4:211:GLN:NE2	2.31	0.60
7:cH:202:GLU:OE1	7:cH:203:ALA:N	2.34	0.60
7:cP:438:ASP:OD1	7:cP:438:ASP:N	2.34	0.60
7:dU:635:ILE:HG21	15:m5:104:LEU:HG	1.83	0.60
8:eU:114:CYS:SG	8:eU:115:THR:N	2.74	0.60
8:fA:440:ILE:HD11	8:fA:653:ILE:HG21	1.83	0.60
8:fB:516:SER:OG	8:fB:617:GLU:OE1	2.19	0.60
8:fS:393:LYS:HG3	8:fS:406:PRO:HG2	1.83	0.60
11:hj:23:VAL:HG11	11:hj:39:THR:HG21	1.82	0.60
12:iF:233:ASP:OD1	16:o6:194:ARG:NH2	2.33	0.60
14:k8:7:ASP:HB3	16:o1:81:ARG:HH22	1.64	0.60
16:o1:340:SER:HB3	17:q3:189:ARG:HH11	1.64	0.60
17:q3:167:GLU:HA	17:q5:211:HIS:CD2	2.36	0.60
17:q5:117:ALA:O	17:q5:119:ASN:N	2.34	0.60
1:S2:9:VAL:HG22	4:XK:196:ARG:HH12	1.63	0.60
1:S3:263:VAL:HG12	1:S3:278:SER:HB3	1.83	0.60
1:SA:117:THR:HG23	1:SA:120:LYS:H	1.67	0.60
1:SA:236:VAL:HG21	1:SA:249:THR:HB	1.83	0.60
1:SP:493:GLU:HG3	1:SP:496:ARG:HH21	1.65	0.60
1:Sv:301:ARG:HD3	1:Sz:295:ILE:HG12	1.83	0.60
1:Sw:287:VAL:O	1:Sw:294:GLN:NE2	2.34	0.60
2:T2:277:LYS:NZ	2:T3:281:THR:O	2.30	0.60
2:TH:28:GLY:O	2:TH:32:ASN:ND2	2.34	0.60
2:Td:194:ARG:HG3	2:Td:195:THR:HG23	1.81	0.60
4:WJ:266:LEU:HD22	4:WJ:271:THR:HG23	1.83	0.60
4:Wj:406:LEU:HD13	4:Wn:403:THR:HG21	1.82	0.60
4:Wl:150:GLN:O	4:Wl:152:ASP:N	2.34	0.60
4:XI:3:GLN:HG2	4:XI:25:LYS:HG3	1.84	0.60
4:XI:460:TYR:HE1	4:XJ:458:THR:HG23	1.65	0.60
4:XI:558:ASP:OD1	4:XI:558:ASP:N	2.33	0.60
4:XJ:472:TYR:HA	4:XK:416:ILE:HG23	1.83	0.60
4:Xj:86:VAL:HG22	4:Xj:87:ASN:H	1.65	0.60
4:Xk:26:ILE:HG13	4:Xm:30:PHE:HE2	1.66	0.60
4:XI:19:LEU:N	5:Yx:919:TYR:O	2.32	0.60
4:Xm:12:ASP:OD2	5:Yy:985:GLU:N	2.34	0.60
4:Xm:276:LEU:HB3	4:Xm:279:SER:HB3	1.83	0.60
5:YY:929:TYR:O	5:YY:931:ASP:N	2.34	0.60
5:Yc:474:GLU:HB3	6:ZE:155:LYS:HE2	1.83	0.60
6:aE:272:ILE:H	6:aE:313:GLU:HB3	1.65	0.60
7:b3:90:LYS:NZ	7:b3:190:ASP:OD1	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bQ:571:ARG:NH2	7:bQ:587:GLU:OE1	2.34	0.60
7:bR:40:GLN:H	7:bR:81:VAL:HG23	1.65	0.60
7:cB:478:CYS:O	7:cB:555:ARG:NH1	2.33	0.60
7:cC:645:THR:OG1	7:cL:629:ILE:O	2.19	0.60
7:cJ:432:ALA:HB2	7:cJ:440:ASN:HD22	1.67	0.60
7:cK:467:TRP:CZ3	7:cP:199:GLU:HB2	2.36	0.60
7:cM:2:THR:OG1	7:cM:3:LEU:N	2.34	0.60
7:dV:427:VAL:O	7:dV:431:THR:OG1	2.19	0.60
8:fU:135:ALA:HA	8:fU:283:ALA:HA	1.83	0.60
8:fr:174:ARG:NH1	16:o1:94:THR:OG1	2.33	0.60
11:hL:64:ARG:NH1	11:hM:95:GLN:HG3	2.17	0.60
16:o0:157:THR:HG23	16:o0:159:THR:H	1.65	0.60
1:S0:360:ARG:HH11	1:S0:525:VAL:HG21	1.65	0.60
1:SO:33:GLN:NE2	1:SP:19:ASP:O	2.33	0.60
1:SP:173:ILE:HG23	1:SQ:173:ILE:HG12	1.83	0.60
1:Sy:401:ARG:NH1	1:Sy:438:GLN:OE1	2.34	0.60
3:UN:73:ASN:ND2	3:UN:75:THR:OG1	2.35	0.60
4:Wm:180:VAL:HG13	4:Wm:181:PHE:H	1.66	0.60
4:Wn:265:LEU:HG	4:Wn:379:ASP:HB2	1.83	0.60
4:XI:339:GLU:HG3	4:XI:340:VAL:HG13	1.83	0.60
4:Xm:132:ASP:HB2	4:Xm:149:LYS:HD3	1.83	0.60
4:Xm:278:GLY:N	4:Xm:295:ALA:O	2.34	0.60
5:YX:232:PRO:HG3	5:YX:237:VAL:HG22	1.83	0.60
5:YY:201:LEU:HD22	5:YY:219:TRP:HZ3	1.66	0.60
6:ZZ:289:ASN:HD21	6:Zb:233:GLN:HB2	1.67	0.60
6:Za:92:ARG:NH2	6:Za:94:ASP:OD2	2.34	0.60
7:bN:147:THR:O	7:bN:147:THR:OG1	2.19	0.60
7:cA:239:VAL:HG22	7:cA:280:ALA:HB3	1.83	0.60
7:cI:467:TRP:CZ3	7:cN:199:GLU:HB2	2.36	0.60
7:cK:116:ILE:HD11	7:cK:131:ILE:HG13	1.83	0.60
8:eB:40:GLN:HG2	8:eB:42:GLU:H	1.65	0.60
8:eW:427:ASN:N	8:eW:427:ASN:OD1	2.32	0.60
8:fB:119:ASN:O	8:fB:155:ARG:NH1	2.35	0.60
8:fr:448:TYR:CG	8:fr:642:PHE:HB2	2.36	0.60
9:gG:76:PRO:HB3	9:gG:80:THR:HG21	1.83	0.60
11:hi:114:ARG:HG2	11:hi:126:GLU:HG3	1.83	0.60
11:hk:14:ASP:OD1	11:hk:17:ARG:NH2	2.34	0.60
15:m6:95:VAL:HG22	15:m6:106:VAL:HG12	1.82	0.60
17:q5:32:THR:N	17:q5:87:TYR:OH	2.32	0.60
1:S3:101:SER:O	1:S3:120:LYS:NZ	2.34	0.60
1:S6:424:ARG:O	1:S8:504:ARG:NH2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:196:VAL:HG22	1:SA:214:THR:HG22	1.84	0.60
1:SQ:360:ARG:HH11	1:SQ:525:VAL:HG21	1.66	0.60
2:T7:212:ARG:HG3	2:T7:213:LYS:HG3	1.83	0.60
2:Tf:53:GLY:HA3	2:Th:7:LYS:HE2	1.82	0.60
3:VM:15:ALA:HA	3:VM:18:LEU:HG	1.83	0.60
3:VN:109:VAL:HG13	3:VN:178:ILE:HD13	1.84	0.60
3:Vs:88:TRP:HZ3	3:Vs:133:LEU:HD21	1.67	0.60
4:WK:229:ASN:OD1	4:WK:230:ILE:N	2.35	0.60
4:Xm:304:ILE:HD13	4:Xm:309:LEU:HG	1.82	0.60
4:Xn:214:SER:OG	4:Xn:222:LEU:O	2.19	0.60
5:YX:81:ARG:HG2	5:YX:94:TRP:HE3	1.66	0.60
5:Yc:750:VAL:HG12	8:fB:257:ILE:HD12	1.83	0.60
5:Yx:38:ILE:HD11	5:Yx:59:LEU:HG	1.83	0.60
5:Yy:145:ALA:HA	5:Yy:542:THR:HA	1.84	0.60
6:aE:137:PRO:HG3	6:aE:185:GLY:HA3	1.82	0.60
7:bN:639:THR:HB	7:dS:624:VAL:HG12	1.83	0.60
7:bO:394:VAL:HG11	7:bO:443:ILE:HD12	1.82	0.60
7:cL:486:GLN:NE2	11:hX:11:GLU:OE1	2.34	0.60
7:cP:90:LYS:NZ	7:cP:190:ASP:OD1	2.34	0.60
8:fU:281:ASN:HD21	8:fU:315:GLY:H	1.49	0.60
8:fr:203:GLY:N	16:o1:97:ASN:OD1	2.35	0.60
8:fr:508:ARG:NH1	8:fr:576:ASP:OD1	2.34	0.60
11:h2:150:ILE:HG22	11:hr:49:ILE:HD12	1.82	0.60
11:hm:24:GLU:OE1	11:hm:33:THR:OG1	2.19	0.60
11:ho:25:ILE:O	11:ho:27:TYR:N	2.33	0.60
12:iC:67:ASN:ND2	12:iF:246:ASP:OD2	2.27	0.60
1:S2:251:ASN:O	1:S3:260:ARG:NH1	2.34	0.60
1:S6:221:THR:HG23	1:S6:224:TYR:H	1.66	0.60
1:SA:405:ARG:NH2	1:SA:409:LEU:O	2.35	0.60
1:SO:262:VAL:HG23	1:SP:260:ARG:HD3	1.84	0.60
1:SO:403:SER:OG	1:SQ:520:ASN:OD1	2.20	0.60
1:SP:170:ILE:HG23	1:SQ:173:ILE:HD13	1.83	0.60
1:SQ:177:ALA:HB3	1:SQ:178:PRO:HD3	1.82	0.60
2:T1:199:MET:HG2	2:T1:282:GLN:HB3	1.84	0.60
2:TF:69:LYS:HZ1	2:TG:104:GLY:HA3	1.66	0.60
2:Tf:61:ILE:O	2:Th:4:GLN:NE2	2.32	0.60
3:Ur:174:TYR:H	4:Wj:340:VAL:HG21	1.66	0.60
3:VL:73:ASN:ND2	3:VL:75:THR:OG1	2.34	0.60
3:Vu:80:GLU:O	3:Vu:187:LYS:NZ	2.34	0.60
4:WI:111:ALA:HB2	4:WI:117:ILE:HG23	1.83	0.60
4:Wj:315:GLY:HA3	4:Wn:316:ILE:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wl:312:ARG:NH2	4:Wl:384:THR:OG1	2.34	0.60
4:Wm:36:GLU:HG3	4:Wo:43:PRO:HG2	1.82	0.60
4:Xj:103:ASN:O	4:Xj:105:ASN:N	2.34	0.60
4:Xk:43:PRO:HG3	4:Xo:33:LEU:HA	1.84	0.60
4:Xk:150:GLN:HE21	4:Xk:153:LYS:HB3	1.66	0.60
4:Xo:229:ASN:OD1	4:Xo:230:ILE:N	2.34	0.60
5:YC:925:LEU:HG	5:YC:991:SER:HA	1.83	0.60
5:YX:580:LYS:O	5:YX:605:ARG:NH1	2.34	0.60
5:YX:750:VAL:HG12	8:eU:257:ILE:HD12	1.83	0.60
5:Yc:646:ARG:HD2	5:Yc:673:GLN:HG2	1.83	0.60
5:Yx:887:GLY:H	8:fr:364:THR:HB	1.66	0.60
6:ZE:202:ARG:O	6:ZE:248:ARG:NH1	2.34	0.60
7:b0:90:LYS:NZ	7:b0:190:ASP:OD1	2.33	0.60
8:eB:103:LYS:HB3	8:eB:318:ASP:HA	1.84	0.60
8:eU:454:ILE:HG22	8:eU:455:PHE:H	1.66	0.60
8:eW:569:ILE:HD13	8:eW:609:ILE:HA	1.83	0.60
8:fA:401:LEU:HD21	8:fB:401:LEU:HD22	1.83	0.60
8:fW:98:TYR:HB2	8:fW:332:LYS:HG3	1.82	0.60
8:fs:281:ASN:ND2	8:fs:315:GLY:O	2.33	0.60
9:gE:320:THR:HB	9:gE:324:ALA:HB2	1.82	0.60
11:hw:24:GLU:OE1	11:hw:114:ARG:NH1	2.31	0.60
16:o6:54:VAL:HG23	16:o6:55:THR:HG23	1.82	0.60
1:S0:57:ILE:HG22	1:S5:55:LYS:HB3	1.83	0.60
1:S0:192:GLN:OE1	1:S5:188:GLN:NE2	2.35	0.60
1:S0:308:ILE:HB	1:S5:315:ILE:HA	1.83	0.60
1:S8:62:THR:N	1:S8:65:GLU:OE1	2.34	0.60
4:WJ:9:ASN:O	4:WK:20:ARG:NH2	2.34	0.60
4:Wo:502:ASN:ND2	4:Wo:516:ALA:O	2.34	0.60
4:Xj:206:PHE:HZ	4:Xj:221:GLU:HG3	1.67	0.60
4:Xk:577:ASN:ND2	4:Xm:529:ASN:OD1	2.35	0.60
5:YC:801:SER:OG	5:YC:808:GLN:O	2.18	0.60
5:YY:506:MET:HE3	6:ab:176:ALA:HB2	1.83	0.60
5:Yx:9:THR:OG1	5:Yx:26:ASP:OD2	2.17	0.60
7:b5:455:LYS:HD3	7:b5:502:VAL:HG22	1.82	0.60
7:bQ:19:VAL:O	7:bQ:46:ASN:ND2	2.30	0.60
7:cE:560:LEU:HD21	7:cE:601:ILE:HD11	1.84	0.60
7:cJ:12:GLU:HG3	7:cN:548:PHE:CE2	2.37	0.60
7:cL:394:VAL:HG11	7:cL:443:ILE:HD12	1.83	0.60
7:dW:494:TYR:O	7:dW:498:GLN:NE2	2.34	0.60
7:dZ:456:TYR:CD2	7:dZ:504:LYS:HD2	2.36	0.60
8:eB:42:GLU:HG3	8:f9:55:VAL:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fA:375:ALA:HB1	8:fA:411:PRO:HB3	1.83	0.60
8:fB:208:ASN:HB3	8:fB:224:TYR:CZ	2.36	0.60
9:gE:418:THR:HG21	9:gG:428:GLY:HA2	1.84	0.60
9:gH:2:GLU:O	9:gH:4:ILE:HG13	2.02	0.60
11:hX:82:ARG:NH1	11:hX:138:GLY:HA2	2.16	0.60
11:hi:58:ILE:HD12	11:hn:6:VAL:HG21	1.82	0.60
11:hj:22:GLN:HB2	11:hj:116:TYR:HE1	1.66	0.60
11:hz:25:ILE:O	11:hz:27:TYR:N	2.32	0.60
12:iF:92:HIS:NE2	12:iF:108:GLU:OE1	2.34	0.60
1:S1:102:THR:HG23	1:S1:104:ASP:H	1.67	0.60
1:Sy:264:LYS:NZ	1:Sy:276:ASP:OD2	2.30	0.60
2:TG:25:PHE:O	2:TG:29:ASN:ND2	2.35	0.60
2:Tf:36:ASN:O	2:Tf:40:ASN:ND2	2.31	0.60
3:Uu:7:LYS:HG3	4:Wk:316:ILE:HD13	1.84	0.60
3:VN:65:LYS:O	3:VN:217:ARG:NH1	2.35	0.60
4:WK:86:VAL:HG22	4:WK:87:ASN:H	1.67	0.60
4:Wm:223:VAL:HB	4:Wm:224:PRO:HD3	1.84	0.60
4:Wm:266:LEU:HA	4:Wm:377:HIS:O	2.01	0.60
4:XI:110:VAL:HG22	4:XI:123:PRO:HB3	1.83	0.60
4:XI:326:MET:HG3	4:XI:327:PRO:HD3	1.83	0.60
4:XK:111:ALA:HB2	4:XK:117:ILE:HG23	1.83	0.60
4:XK:290:SER:HA	4:XK:371:PHE:N	2.14	0.60
4:Xl:180:VAL:HG13	4:Xl:181:PHE:H	1.66	0.60
5:YX:436:THR:HG22	5:YX:441:VAL:HA	1.82	0.60
5:YX:573:VAL:HG22	5:YX:610:ILE:HB	1.82	0.60
5:Yy:969:TYR:CG	5:Yy:982:LEU:HD13	2.37	0.60
6:aZ:15:LYS:HD2	6:ab:308:GLU:HG3	1.83	0.60
7:cC:417:ILE:HD13	7:cC:417:ILE:H	1.65	0.60
7:cD:514:ARG:NH1	7:cM:366:GLU:OE2	2.35	0.60
7:cH:486:GLN:NE2	11:hM:11:GLU:OE1	2.35	0.60
7:cI:480:ARG:HA	7:cI:483:ASN:HD22	1.67	0.60
7:dV:379:ALA:HA	7:dV:411:ARG:HB2	1.83	0.60
8:eB:122:TYR:HB3	8:eB:152:ILE:HD11	1.84	0.60
8:eU:508:ARG:NH1	8:eU:576:ASP:O	2.35	0.60
8:eW:609:ILE:O	8:eW:610:ASN:HB2	2.01	0.60
8:fA:214:MET:HE1	8:fA:257:ILE:HG23	1.83	0.60
8:fr:619:GLN:HG2	8:fr:620:THR:HG23	1.84	0.60
8:fs:357:ILE:HD12	8:fs:376:ALA:HB1	1.83	0.60
11:hj:56:ARG:NH2	11:hl:96:GLY:O	2.33	0.60
11:hp:139:GLU:OE2	11:hp:141:GLN:NE2	2.31	0.60
12:iF:14:VAL:HG22	12:iF:72:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o0:42:ARG:NH1	16:o0:60:ASN:O	2.31	0.60
17:q5:130:MET:HE1	17:q5:214:VAL:HG11	1.82	0.60
1:S0:515:TRP:NE1	1:S7:429:CYS:SG	2.74	0.60
1:S1:411:ASN:O	1:S1:415:ASN:ND2	2.34	0.60
1:SP:40:SER:HB3	1:SQ:24:ASN:HB2	1.83	0.60
1:SP:229:LYS:HE3	1:SQ:225:LYS:HG3	1.82	0.60
2:T4:204:VAL:HG22	2:T4:276:VAL:HG22	1.83	0.60
2:T9:50:VAL:O	2:T9:52:ASN:N	2.35	0.60
2:Te:275:ALA:O	2:Tg:282:GLN:NE2	2.35	0.60
2:Ti:110:ILE:HG22	2:Ti:145:LYS:HG3	1.82	0.60
3:Vs:39:THR:HB	3:Vu:166:HIS:HE1	1.67	0.60
4:WK:469:PRO:HB2	4:WK:478:TRP:CD1	2.37	0.60
4:Wl:36:GLU:HG3	4:Wn:43:PRO:HG2	1.83	0.60
4:Wl:312:ARG:HD3	4:Wl:317:LEU:HD12	1.83	0.60
4:Wm:299:ILE:HG22	4:Wm:301:GLY:H	1.67	0.60
4:Wn:113:SER:OG	4:Wn:114:GLY:N	2.35	0.60
4:Xk:103:ASN:O	4:Xk:105:ASN:N	2.34	0.60
4:Xk:304:ILE:HD12	4:Xk:385:TRP:HA	1.84	0.60
4:Xn:278:GLY:HA2	4:Xn:295:ALA:HA	1.84	0.60
5:YC:769:ASP:O	5:YC:840:ARG:NH2	2.34	0.60
5:YX:365:CYS:HA	5:YX:379:ILE:HA	1.83	0.60
5:YX:969:TYR:HD1	5:YX:973:ASN:HD21	1.49	0.60
5:YY:81:ARG:HD2	5:YY:94:TRP:HB3	1.84	0.60
5:Yc:696:ARG:HA	5:Yc:725:ARG:HD3	1.82	0.60
5:Yy:63:ALA:O	5:Yy:64:ASN:ND2	2.35	0.60
5:Yy:106:ASN:ND2	5:Yy:130:ASN:OD1	2.35	0.60
5:Yy:124:GLN:O	5:Yy:128:THR:OG1	2.18	0.60
5:Yy:696:ARG:HA	5:Yy:725:ARG:HD3	1.84	0.60
5:Yy:711:ARG:HH12	5:Yy:881:ARG:HG2	1.65	0.60
6:Zb:249:PHE:HB2	6:Zb:330:ILE:HB	1.82	0.60
6:aa:59:PRO:O	6:aa:314:ASN:ND2	2.29	0.60
6:aa:60:TYR:HB2	6:ac:9:ARG:HH11	1.66	0.60
7:b3:142:LYS:HD2	7:b3:216:LYS:HA	1.84	0.60
7:cA:571:ARG:NH2	7:cA:587:GLU:OE1	2.35	0.60
7:cB:617:VAL:HG22	7:cB:622:GLU:HB2	1.83	0.60
7:cC:486:GLN:NE2	11:hw:11:GLU:OE1	2.34	0.60
7:cM:394:VAL:HG11	7:cM:443:ILE:HD12	1.83	0.60
7:cN:490:SER:O	7:cN:496:ARG:NH1	2.34	0.60
7:dZ:66:MET:HG2	7:dZ:468:VAL:HG21	1.82	0.60
8:eB:546:ASP:OD1	8:eB:547:SER:N	2.35	0.60
8:eU:45:ASP:OD2	15:m5:87:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fU:119:ASN:OD1	8:fU:159:ASN:ND2	2.34	0.60
8:fr:177:ILE:HD13	8:fr:185:ILE:HG23	1.83	0.60
8:fs:174:ARG:HB3	8:fs:271:GLU:HG2	1.83	0.60
8:fs:293:THR:OG1	8:fs:294:ASN:OD1	2.19	0.60
11:h2:63:ASP:OD2	11:hX:147:ASN:ND2	2.34	0.60
11:hf:39:THR:HG22	11:hf:71:VAL:HG22	1.84	0.60
11:hm:64:ARG:NH1	11:hn:95:GLN:HG3	2.17	0.60
11:hs:113:VAL:HG13	11:hs:127:ILE:HG12	1.84	0.60
16:o1:47:ASP:OD1	16:o1:48:THR:N	2.30	0.60
16:o2:330:ASN:OD1	17:q4:189:ARG:NH2	2.34	0.60
17:q5:167:GLU:O	17:q5:169:CYS:N	2.34	0.60
1:S0:503:ASN:OD1	1:S7:446:LYS:N	2.30	0.60
1:S2:291:ARG:NH2	1:S3:269:ALA:O	2.31	0.60
1:S2:386:ASN:HD21	1:S2:389:ASN:HB2	1.66	0.60
1:S7:401:ARG:NH1	1:S7:438:GLN:OE1	2.31	0.60
1:Sw:347:MET:HE3	1:Sy:347:MET:HB3	1.84	0.60
1:Sy:497:ASN:H	1:Sy:500:TYR:HB2	1.67	0.60
2:TH:50:VAL:O	2:TH:52:ASN:N	2.35	0.60
2:Te:213:LYS:NZ	2:Te:241:GLY:O	2.35	0.60
2:Th:46:ARG:NH2	2:Th:66:TYR:OH	2.35	0.60
2:Ti:40:ASN:O	2:Ti:68:GLN:NE2	2.35	0.60
4:WJ:472:TYR:HA	4:WK:416:ILE:HG23	1.84	0.60
4:Wk:453:ILE:HG21	4:Wm:453:ILE:HD12	1.83	0.60
4:Wo:422:LEU:HD13	4:Wo:428:ILE:HD12	1.82	0.60
4:Xl:331:CYS:HB2	4:Xl:351:GLN:HE22	1.67	0.60
4:Xj:43:PRO:HG3	4:Xn:33:LEU:HA	1.84	0.60
4:Xk:95:ALA:HB3	4:Xk:133:LEU:HB2	1.82	0.60
5:YY:202:PHE:HB3	5:YY:209:VAL:HG22	1.83	0.60
6:ZZ:197:ASP:OD1	6:ZZ:197:ASP:N	2.34	0.60
7:bQ:438:ASP:OD1	7:bQ:438:ASP:N	2.35	0.60
7:bQ:642:PHE:HE1	7:dV:564:ILE:HD11	1.67	0.60
7:cD:453:ASN:HB2	7:cD:506:ALA:HB3	1.84	0.60
7:cL:423:VAL:HG13	7:cL:517:LEU:HD13	1.84	0.60
7:dU:470:LEU:HD23	7:dU:525:VAL:HG21	1.84	0.60
8:f9:150:ASP:OD1	8:f9:150:ASP:N	2.35	0.60
8:fA:358:GLN:NE2	8:fA:453:GLU:OE2	2.33	0.60
8:fS:84:ASN:ND2	14:k4:13:ALA:O	2.35	0.60
8:fs:384:LEU:O	8:fs:389:ARG:NH2	2.35	0.60
9:gG:266:TRP:O	9:gG:274:GLN:NE2	2.33	0.60
11:hx:25:ILE:O	11:hx:27:TYR:N	2.35	0.60
12:iC:203:MET:HA	12:iC:206:GLN:HE21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:m2:85:GLU:OE2	15:m2:87:ARG:NE	2.34	0.60
15:mT:101:ASP:N	15:mT:101:ASP:OD1	2.34	0.60
16:o6:262:LEU:HD23	16:pA:307:LYS:HB2	1.84	0.60
17:q5:219:HIS:O	17:q5:243:PHE:HD2	1.84	0.60
1:S2:33:GLN:NE2	1:S3:19:ASP:O	2.33	0.60
1:S2:170:ILE:HG23	1:S3:173:ILE:HD13	1.84	0.60
1:S3:117:THR:HG23	1:S3:120:LYS:H	1.67	0.60
1:S5:162:PRO:HA	1:S7:160:MET:HE3	1.83	0.60
2:T9:67:TYR:CD2	2:T9:84:ARG:HB3	2.36	0.60
2:Td:63:ALA:O	2:Tf:84:ARG:NE	2.34	0.60
2:Te:28:GLY:O	2:Te:32:ASN:ND2	2.29	0.60
2:Te:36:ASN:OD1	2:Tg:7:LYS:NZ	2.34	0.60
2:Tf:16:GLY:O	2:Tf:19:SER:OG	2.16	0.60
4:Wl:103:ASN:O	4:Wl:105:ASN:N	2.35	0.60
4:Wj:152:ASP:H	4:Wn:146:VAL:HG12	1.66	0.60
4:Wk:19:LEU:HG	5:YY:999:THR:HB	1.84	0.60
4:Wk:71:ASN:OD1	4:Wk:72:THR:N	2.35	0.60
4:Wl:223:VAL:HB	4:Wl:224:PRO:HD3	1.84	0.60
4:Wm:310:GLU:HB2	4:Wm:384:THR:HB	1.84	0.60
4:Wn:18:TYR:HB2	4:Wn:21:LYS:HB2	1.83	0.60
4:Wo:206:PHE:HB3	4:Wo:223:VAL:HG13	1.84	0.60
4:Xk:146:VAL:HG23	4:Xm:153:LYS:HB2	1.84	0.60
4:Xk:469:PRO:HA	4:Xk:472:TYR:CZ	2.37	0.60
4:Xo:86:VAL:HG22	4:Xo:87:ASN:H	1.67	0.60
4:Xo:326:MET:HG3	4:Xo:327:PRO:HD3	1.84	0.60
5:YY:750:VAL:HG12	8:eW:257:ILE:HD12	1.83	0.60
5:Yx:523:ARG:HB2	5:Yx:535:VAL:HG13	1.84	0.60
6:ZE:137:PRO:HG3	6:ZE:185:GLY:HA3	1.84	0.60
6:ZE:170:PRO:HB3	6:ZE:188:TRP:CD1	2.36	0.60
6:ZZ:263:LEU:HB2	6:ZZ:266:ASN:HB2	1.83	0.60
6:aD:275:ILE:HA	6:aD:309:MET:HA	1.83	0.60
7:b0:432:ALA:HB2	7:b0:440:ASN:HD22	1.67	0.60
7:b5:90:LYS:NZ	7:b5:190:ASP:OD1	2.34	0.60
7:b5:140:ILE:O	7:b5:141:LYS:NZ	2.35	0.60
7:b7:455:LYS:NZ	7:b7:457:GLN:OE1	2.26	0.60
7:cF:102:THR:HB	7:cF:183:THR:HB	1.84	0.60
7:cG:571:ARG:NH2	7:cG:587:GLU:OE1	2.35	0.60
8:eU:135:ALA:HA	8:eU:283:ALA:HA	1.83	0.60
8:fS:148:ARG:HD2	8:fS:168:ALA:HB2	1.82	0.60
8:fU:595:ILE:HG22	8:fU:602:ILE:HA	1.84	0.60
8:fr:110:ILE:HD12	8:fr:302:GLU:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hx:140:LEU:HD13	11:hx:153:PHE:HB3	1.83	0.60
1:S3:2:SER:N	1:S3:5:THR:HG1	1.99	0.59
1:Sv:117:THR:H	1:Sv:120:LYS:HZ3	1.49	0.59
1:Sy:150:ALA:HB3	1:Sy:168:LEU:HD13	1.83	0.59
2:T1:168:PHE:HA	2:T2:163:SER:HB3	1.84	0.59
2:T6:28:GLY:O	2:T6:32:ASN:ND2	2.35	0.59
2:T9:204:VAL:HG22	2:T9:276:VAL:HG22	1.83	0.59
2:TG:63:ALA:HB3	2:TH:83:THR:HA	1.82	0.59
3:Vq:39:THR:OG1	3:Vq:42:GLN:OE1	2.20	0.59
4:WI:49:TRP:CG	4:WI:67:SER:HG	2.20	0.59
4:Wj:314:ASN:N	4:Wj:380:ILE:O	2.28	0.59
4:Wk:502:ASN:ND2	4:Wk:516:ALA:O	2.34	0.59
4:Wl:502:ASN:ND2	4:Wl:516:ALA:O	2.34	0.59
4:Wl:565:ILE:HD13	5:YX:223:LYS:HB2	1.83	0.59
4:Wo:213:GLY:H	4:Wo:232:LEU:HA	1.67	0.59
4:XI:279:SER:HB2	4:XK:326:MET:HB2	1.84	0.59
4:XJ:18:TYR:HA	5:Yc:920:LYS:HA	1.84	0.59
5:YC:549:PRO:O	5:YC:552:SER:OG	2.16	0.59
5:YX:403:ILE:HG23	5:YX:417:PHE:HB3	1.84	0.59
5:YY:18:ALA:HA	5:YY:102:THR:HB	1.83	0.59
5:Yx:135:VAL:HG12	5:Yx:589:LYS:HD3	1.84	0.59
6:ZZ:59:PRO:O	6:ZZ:314:ASN:ND2	2.30	0.59
7:b0:514:ARG:NH1	7:cI:366:GLU:OE2	2.35	0.59
7:bY:368:VAL:O	7:bY:400:ARG:NH2	2.35	0.59
7:cA:11:LYS:HE3	7:cA:13:THR:HG21	1.84	0.59
7:cH:41:ILE:HD11	7:cH:361:PHE:HB3	1.83	0.59
7:cH:455:LYS:HG3	7:cH:502:VAL:HG13	1.84	0.59
7:cI:411:ARG:HG3	7:cI:415:VAL:HG21	1.82	0.59
7:cP:47:GLU:OE1	7:cP:461:TYR:OH	2.19	0.59
7:dU:202:GLU:OE1	7:dU:203:ALA:N	2.33	0.59
7:dU:453:ASN:HB2	7:dU:506:ALA:HB3	1.83	0.59
8:eW:103:LYS:HB3	8:eW:318:ASP:HA	1.83	0.59
8:f9:21:PHE:O	8:f9:72:ASN:ND2	2.35	0.59
8:fB:311:VAL:HG11	15:m2:20:ASN:HA	1.84	0.59
8:fB:414:LEU:HD23	8:fB:486:ARG:HH21	1.67	0.59
8:fB:609:ILE:O	8:fB:610:ASN:HB2	2.02	0.59
8:fU:543:THR:OG1	8:fU:576:ASP:OD1	2.20	0.59
9:gG:418:THR:HG21	9:gH:428:GLY:HA2	1.84	0.59
11:h1:140:LEU:HD13	11:h1:153:PHE:HB3	1.83	0.59
11:hp:17:ARG:HG3	11:hp:20:LEU:HD12	1.84	0.59
11:hp:63:ASP:OD2	11:hz:147:ASN:ND2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iF:225:GLU:OE1	16:o0:115:ASN:ND2	2.29	0.59
1:S0:405:ARG:NH2	1:S0:409:LEU:O	2.35	0.59
1:S5:212:PRO:HG3	1:S7:199:VAL:HG12	1.84	0.59
1:S8:62:THR:HG23	1:S8:64:GLN:H	1.67	0.59
1:SO:449:GLY:O	1:SQ:481:SER:OG	2.19	0.59
1:SP:480:ARG:NH1	1:SQ:463:THR:O	2.33	0.59
1:SQ:476:ASP:OD1	1:SQ:479:ASN:ND2	2.28	0.59
1:Sw:141:VAL:HG22	1:Sy:139:ASN:HB2	1.83	0.59
1:Sy:106:ALA:HB2	1:Sy:120:LYS:HD2	1.85	0.59
4:Wj:584:THR:HB	4:Wl:531:ASN:HD22	1.66	0.59
4:Wl:86:VAL:HG22	4:Wl:87:ASN:H	1.67	0.59
4:Wl:327:PRO:HG3	4:Wn:264:ARG:HD3	1.83	0.59
4:Wm:323:THR:N	4:Wm:358:VAL:O	2.35	0.59
4:XI:10:VAL:HG23	4:XI:11:VAL:HG23	1.83	0.59
4:Xj:558:ASP:OD1	4:Xj:558:ASP:N	2.33	0.59
4:Xk:9:ASN:HD22	6:aa:200:ILE:HG21	1.66	0.59
4:Xk:329:PHE:HB3	4:Xk:332:VAL:HB	1.82	0.59
4:Xk:486:VAL:HG12	4:Xm:488:VAL:HG22	1.83	0.59
4:Xl:3:GLN:OE1	4:Xl:25:LYS:NZ	2.33	0.59
5:Yc:555:ARG:O	5:Yc:557:VAL:N	2.35	0.59
5:Yx:121:LYS:HG2	5:Yx:158:VAL:HG13	1.85	0.59
5:Yy:703:TYR:OH	8:fS:12:ARG:NH1	2.35	0.59
7:b3:350:VAL:HG13	7:b3:354:ASP:HB2	1.84	0.59
7:cE:412:GLU:N	7:cE:412:GLU:OE1	2.35	0.59
7:cG:229:GLU:HG2	7:cG:345:SER:HB2	1.84	0.59
7:cN:135:ASP:OD1	7:cN:136:ALA:N	2.35	0.59
7:dS:202:GLU:OE1	7:dS:203:ALA:N	2.30	0.59
7:dS:372:LEU:HD21	7:dS:478:CYS:HB2	1.83	0.59
7:dW:119:LYS:NZ	7:dW:122:SER:O	2.31	0.59
7:dZ:90:LYS:NZ	7:dZ:190:ASP:OD1	2.29	0.59
8:eB:485:VAL:HG22	8:eB:624:TYR:HD1	1.67	0.59
11:hJ:19:ASN:OD1	11:hJ:19:ASN:N	2.35	0.59
11:hr:23:VAL:HG11	11:hr:39:THR:HG21	1.84	0.59
16:o2:56:ASP:N	16:o2:56:ASP:OD1	2.34	0.59
17:q3:133:ASN:OD1	17:q3:153:ARG:NH1	2.33	0.59
17:q3:215:MET:HE1	17:q7:99:SER:HA	1.84	0.59
1:S1:100:TYR:OH	1:S2:113:GLU:O	2.17	0.59
1:S5:150:ALA:HB2	1:S5:164:LYS:HZ3	1.66	0.59
1:SO:126:ASN:OD1	1:SP:132:ARG:NH1	2.35	0.59
1:Sv:29:ILE:HG22	1:Sv:30:THR:H	1.67	0.59
1:Sw:97:LEU:HB3	1:Sy:95:TYR:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T9:87:ILE:HG21	2:T9:122:LEU:HG	1.83	0.59
2:TF:82:GLY:O	2:TH:63:ALA:N	2.35	0.59
2:TF:193:HIS:HB3	2:TF:196:GLU:HG3	1.85	0.59
2:Te:193:HIS:HB3	2:Te:196:GLU:HG3	1.83	0.59
3:Uu:17:PHE:HD1	3:Uu:47:PHE:HB2	1.68	0.59
3:VN:4:LEU:HD13	4:Xl:356:TYR:HE2	1.67	0.59
3:Vr:42:GLN:NE2	3:Vr:51:ASN:OD1	2.36	0.59
4:WJ:150:GLN:OE1	4:WJ:155:THR:OG1	2.17	0.59
4:WJ:344:VAL:HG12	4:WJ:349:TRP:H	1.67	0.59
4:Wm:273:LYS:HE2	4:Wm:280:ILE:HD13	1.83	0.59
4:XJ:11:VAL:HG13	4:XK:20:ARG:HG2	1.84	0.59
4:Xl:312:ARG:NH2	4:Xl:384:THR:OG1	2.34	0.59
4:Xl:594:THR:OG1	4:Xn:518:GLY:N	2.35	0.59
5:YC:145:ALA:HA	5:YC:542:THR:HA	1.84	0.59
5:YC:412:THR:HG1	5:YC:413:TRP:CD1	2.20	0.59
5:YX:323:ARG:NE	5:YX:387:ASN:OD1	2.34	0.59
5:YX:649:ILE:HA	5:YX:652:MET:HE2	1.82	0.59
5:YX:649:ILE:HD11	5:YX:668:CYS:HB3	1.83	0.59
5:Yx:4:LYS:HA	5:Yx:90:GLU:HB3	1.85	0.59
5:Yy:412:THR:HG1	5:Yy:413:TRP:CD1	2.20	0.59
6:Zb:202:ARG:O	6:Zb:248:ARG:NH1	2.27	0.59
7:b0:351:THR:HG23	7:b0:354:ASP:H	1.67	0.59
7:b0:406:LEU:HD13	7:b0:475:ALA:HB2	1.84	0.59
7:b9:256:PRO:HG2	7:b9:339:THR:H	1.67	0.59
7:bN:247:GLY:HA2	7:bN:266:LYS:HG3	1.84	0.59
7:cP:470:LEU:HD23	7:cP:525:VAL:HG21	1.84	0.59
7:dT:464:VAL:HG12	16:o6:18:LYS:HB3	1.84	0.59
11:h2:97:ASN:HA	11:hK:3:VAL:HG12	1.84	0.59
11:hp:131:GLY:O	11:hp:159:LEU:HA	2.02	0.59
14:k4:2:LEU:HD11	14:k4:188:MET:HE1	1.85	0.59
1:S0:221:THR:HG23	1:S0:224:TYR:H	1.68	0.59
1:S0:265:LEU:HD11	1:S5:278:SER:HA	1.84	0.59
1:S4:13:SER:HB2	1:S6:18:PHE:HA	1.84	0.59
1:S4:29:ILE:HG22	1:S4:30:THR:H	1.66	0.59
1:S6:264:LYS:NZ	1:S6:276:ASP:OD2	2.36	0.59
1:S6:335:ASN:HB3	1:S8:329:ASN:HD21	1.67	0.59
1:SA:225:LYS:HG3	1:Sy:229:LYS:HE3	1.84	0.59
1:SO:347:MET:HE3	1:SP:347:MET:HB3	1.82	0.59
3:Ur:42:GLN:HB3	3:Ur:47:PHE:HB3	1.84	0.59
3:Vr:82:VAL:HG23	3:Vr:187:LYS:HE3	1.83	0.59
4:WK:213:GLY:HA2	4:WK:221:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wj:79:ILE:HG13	4:Wj:109:LEU:HA	1.83	0.59
4:Wj:507:ASP:OD1	4:Wj:511:ASN:N	2.32	0.59
4:Wl:3:GLN:HG3	4:Wl:25:LYS:HG3	1.85	0.59
4:Wl:299:ILE:HG22	4:Wl:301:GLY:H	1.67	0.59
4:Wo:19:LEU:N	5:YY:992:PRO:O	2.36	0.59
4:Xl:200:LEU:HD11	4:XJ:241:THR:HG21	1.84	0.59
4:Xj:472:TYR:HA	4:Xl:416:ILE:HG23	1.83	0.59
4:Xk:164:ARG:NH2	4:Xk:243:GLN:OE1	2.35	0.59
4:Xl:11:VAL:HG13	4:Xn:20:ARG:HG2	1.83	0.59
4:Xm:180:VAL:HG13	4:Xm:181:PHE:H	1.66	0.59
4:Xn:111:ALA:HB2	4:Xn:117:ILE:HG23	1.85	0.59
5:YC:575:PHE:H	5:YC:608:VAL:HG22	1.67	0.59
5:YY:555:ARG:O	5:YY:557:VAL:N	2.35	0.59
5:Yx:382:GLU:N	5:Yx:382:GLU:OE1	2.35	0.59
6:ZE:197:ASP:OD2	6:ZE:222:ARG:NH1	2.35	0.59
6:aZ:289:ASN:HD21	6:ab:233:GLN:HB2	1.67	0.59
7:bP:147:THR:O	7:bP:147:THR:OG1	2.18	0.59
7:cG:430:ARG:HG3	7:cG:522:ILE:HD11	1.83	0.59
7:cG:453:ASN:HB2	7:cG:506:ALA:HB3	1.84	0.59
7:dW:202:GLU:OE1	7:dW:203:ALA:N	2.33	0.59
8:f9:103:LYS:HG3	8:f9:191:ASN:HA	1.85	0.59
8:fB:543:THR:OG1	8:fB:576:ASP:OD1	2.20	0.59
9:gE:416:HIS:HE1	9:gG:411:ARG:HA	1.67	0.59
11:hL:23:VAL:HG11	11:hL:39:THR:HG21	1.84	0.59
11:he:97:ASN:HB3	11:hn:2:PHE:HB3	1.83	0.59
11:hh:56:ARG:NH2	11:ht:96:GLY:O	2.27	0.59
11:hs:63:ASP:OD2	11:hw:147:ASN:ND2	2.36	0.59
12:iF:253:ILE:O	12:iF:265:MET:HA	2.02	0.59
14:k4:129:ASN:OD1	14:k4:129:ASN:N	2.36	0.59
16:o1:252:ASP:OD1	16:o1:255:ARG:NH1	2.35	0.59
17:q3:166:SER:OG	17:q5:14:ALA:O	2.14	0.59
17:q4:167:GLU:HA	17:q7:211:HIS:CD2	2.37	0.59
1:S7:451:PHE:HZ	1:S7:471:THR:HG22	1.67	0.59
1:SO:188:GLN:NE2	1:SQ:192:GLN:OE1	2.35	0.59
1:SO:504:ARG:NH2	1:SQ:424:ARG:O	2.32	0.59
2:TG:28:GLY:O	2:TG:32:ASN:ND2	2.34	0.59
3:Us:67:VAL:HG13	3:Us:217:ARG:HG2	1.85	0.59
3:Vr:84:GLN:OE1	3:Vr:166:HIS:N	2.36	0.59
3:Vs:85:THR:HG22	3:Vs:183:ILE:HD12	1.83	0.59
4:Wj:486:VAL:HG12	4:Wl:488:VAL:HG22	1.83	0.59
4:Wo:8:GLY:HA3	4:Wo:15:THR:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:237:ASN:OD1	4:XJ:238:ILE:N	2.34	0.59
4:XJ:263:ILE:HG22	4:XJ:381:ILE:HB	1.85	0.59
4:Xj:331:CYS:HB2	4:Xj:351:GLN:HE22	1.68	0.59
6:ZD:174:GLY:HA3	6:ZD:180:ILE:HG12	1.85	0.59
6:aD:136:VAL:O	6:aD:150:LYS:NZ	2.28	0.59
7:b3:47:GLU:OE1	7:b3:461:TYR:OH	2.19	0.59
7:bP:202:GLU:OE1	7:bP:203:ALA:N	2.35	0.59
7:cL:620:ARG:HB2	7:cL:622:GLU:HG3	1.85	0.59
7:cM:612:ASN:HB3	7:cM:624:VAL:HG23	1.85	0.59
7:dV:74:TYR:OH	7:dV:500:LEU:N	2.28	0.59
7:dW:90:LYS:NZ	7:dW:190:ASP:OD1	2.36	0.59
8:eB:199:LEU:HD11	8:eB:268:ILE:HG23	1.84	0.59
8:eW:538:VAL:HG11	8:eW:558:PHE:HE1	1.68	0.59
8:fR:388:GLN:O	8:fR:392:ILE:HG22	2.03	0.59
8:fS:200:TYR:HB2	8:fS:269:VAL:HG13	1.84	0.59
8:fs:619:GLN:HG2	8:fs:620:THR:HG23	1.85	0.59
9:gE:528:ASN:OD1	9:gE:528:ASN:N	2.35	0.59
9:gG:528:ASN:OD1	9:gG:528:ASN:N	2.34	0.59
11:hf:54:MET:HE3	11:hl:20:LEU:HA	1.84	0.59
16:o2:69:MET:HE2	16:o2:289:ASN:HB3	1.83	0.59
17:q3:199:ILE:HG12	17:q3:218:MET:SD	2.42	0.59
1:S1:29:ILE:HG22	1:S1:30:THR:H	1.68	0.59
1:S4:319:VAL:HG13	1:S8:313:ALA:HB3	1.82	0.59
1:S6:320:ARG:HG2	1:S8:325:TYR:HB2	1.85	0.59
1:SA:14:ARG:HH21	1:Sw:21:THR:HG21	1.68	0.59
1:Sw:29:ILE:HG22	1:Sw:30:THR:H	1.67	0.59
1:Sz:417:ASN:O	1:Sz:424:ARG:NH1	2.35	0.59
3:UL:41:SER:OG	3:UM:166:HIS:ND1	2.26	0.59
3:Vt:4:LEU:O	4:Xj:318:GLN:NE2	2.35	0.59
4:WI:3:GLN:HG2	4:WI:25:LYS:HG3	1.83	0.59
4:WI:488:VAL:HG22	4:WK:486:VAL:HG12	1.85	0.59
4:Wj:49:TRP:O	4:Wn:90:ASN:ND2	2.36	0.59
4:Wj:329:PHE:HB3	4:Wj:332:VAL:HB	1.83	0.59
4:Wl:208:GLU:OE1	4:Wl:233:ARG:NH1	2.35	0.59
4:Wn:102:TRP:CZ3	4:Wn:131:SER:HB2	2.37	0.59
4:XI:89:TYR:HA	4:XI:137:TYR:HB3	1.83	0.59
5:YC:613:LYS:NZ	8:eU:613:SER:O	2.35	0.59
5:Yc:232:PRO:HG3	5:Yc:237:VAL:HG22	1.85	0.59
5:Yx:104:ALA:C	5:Yx:105:THR:HG1	2.11	0.59
5:Yx:154:SER:O	5:Yx:156:SER:N	2.32	0.59
5:Yy:913:ILE:HG12	5:Yy:1012:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Za:89:VAL:O	6:Za:246:THR:OG1	2.19	0.59
6:Za:228:ASN:OD1	6:Za:229:LEU:N	2.34	0.59
7:b0:159:GLU:HB3	7:b0:163:LEU:HA	1.84	0.59
7:b6:140:ILE:O	7:b6:141:LYS:NZ	2.30	0.59
7:cB:430:ARG:HG3	7:cB:522:ILE:HD11	1.84	0.59
7:cD:135:ASP:HB3	7:cD:139:LYS:HB2	1.83	0.59
7:cD:617:VAL:HG22	7:cD:622:GLU:HB2	1.85	0.59
8:fS:487:GLU:OE2	8:fS:647:ARG:NH1	2.35	0.59
8:fW:42:GLU:O	15:m2:25:ARG:NH2	2.31	0.59
8:fs:489:GLN:HA	8:fs:620:THR:HG22	1.85	0.59
11:hh:97:ASN:HA	11:hk:3:VAL:HG12	1.84	0.59
11:ho:58:ILE:HD12	11:hx:6:VAL:HG21	1.85	0.59
16:o0:129:LEU:HD21	16:o0:225:ILE:HD13	1.84	0.59
17:q7:117:ALA:O	17:q7:119:ASN:N	2.35	0.59
1:S3:29:ILE:HG22	1:S3:30:THR:H	1.66	0.59
1:S4:228:ILE:HD12	1:S6:228:ILE:HD11	1.84	0.59
1:S4:481:SER:OG	1:S6:449:GLY:O	2.19	0.59
1:S8:333:THR:OG1	1:S8:335:ASN:OD1	2.17	0.59
1:SQ:2:SER:HA	4:WI:200:LEU:HD22	1.83	0.59
1:SQ:160:MET:HG3	1:SQ:164:LYS:HB2	1.85	0.59
1:SQ:405:ARG:NH2	1:SQ:409:LEU:O	2.36	0.59
1:Sw:399:PHE:CE1	1:Sy:401:ARG:HB3	2.37	0.59
1:Sx:31:ASP:OD1	1:Sx:31:ASP:N	2.35	0.59
2:T2:201:LYS:NZ	2:T2:220:ASN:OD1	2.28	0.59
2:TH:87:ILE:HG21	2:TH:122:LEU:HG	1.85	0.59
2:Th:53:GLY:HA2	2:Th:59:GLN:H	1.67	0.59
4:WI:483:GLN:NE2	4:WJ:491:ASN:OD1	2.36	0.59
4:WJ:3:GLN:OE1	4:WJ:25:LYS:NZ	2.36	0.59
4:Wo:86:VAL:HG22	4:Wo:87:ASN:H	1.67	0.59
4:Xl:7:ILE:HD11	4:Xn:24:ILE:HG13	1.84	0.59
4:Xl:131:SER:HA	4:Xl:150:GLN:HA	1.83	0.59
4:Xn:314:ASN:HA	4:Xn:380:ILE:HG13	1.83	0.59
5:YX:775:ASP:OD1	5:YX:775:ASP:N	2.35	0.59
5:Yc:307:ILE:HA	5:Yc:391:ARG:HH12	1.66	0.59
6:ZE:253:LEU:HB2	6:ZE:326:GLU:HB3	1.84	0.59
6:Za:115:ASN:HA	6:Za:121:ALA:HA	1.84	0.59
6:aa:136:VAL:O	6:aa:150:LYS:NZ	2.35	0.59
7:b0:104:SER:HG	7:b0:183:THR:HG1	1.51	0.59
7:b9:116:ILE:HD11	7:b9:131:ILE:HG13	1.85	0.59
7:bR:427:VAL:O	7:bR:431:THR:OG1	2.19	0.59
7:cA:487:THR:HG21	7:cA:559:MET:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cG:411:ARG:HG3	7:cG:415:VAL:HG21	1.83	0.59
7:cH:386:ALA:O	7:cH:390:GLN:NE2	2.32	0.59
7:cI:467:TRP:HZ3	7:cN:199:GLU:HB2	1.67	0.59
7:cJ:417:ILE:H	7:cJ:417:ILE:HD13	1.68	0.59
7:cN:32:LYS:HE2	7:cN:350:VAL:HB	1.84	0.59
7:dV:278:GLN:HG2	7:dV:296:SER:HB3	1.85	0.59
8:eU:120:ARG:O	8:eU:161:TYR:OH	2.18	0.59
8:eW:31:GLN:NE2	8:eW:35:GLU:OE1	2.35	0.59
8:eW:199:LEU:HD11	8:eW:268:ILE:HG23	1.85	0.59
8:fU:109:GLU:OE1	8:fU:166:LYS:NZ	2.34	0.59
9:gH:266:TRP:O	9:gH:274:GLN:NE2	2.35	0.59
11:h1:20:LEU:HA	11:hq:54:MET:HE3	1.84	0.59
11:hv:19:ASN:OD1	11:hv:19:ASN:N	2.35	0.59
16:o6:280:SER:HB2	16:o6:283:ASN:HB2	1.84	0.59
1:S6:363:HIS:O	1:S6:396:ARG:NH2	2.35	0.59
1:S8:229:LYS:HG3	1:S8:243:VAL:HG12	1.85	0.59
1:SP:386:ASN:HD21	1:SP:389:ASN:HB2	1.67	0.59
1:Sx:357:ASP:O	1:Sx:360:ARG:NH1	2.35	0.59
1:Sz:62:THR:HG23	1:Sz:64:GLN:H	1.66	0.59
2:T8:124:ILE:HD12	2:T8:137:LEU:HD23	1.84	0.59
3:Us:172:SER:HA	3:Us:177:THR:HA	1.83	0.59
3:VN:7:LYS:HB3	4:Xl:318:GLN:NE2	2.18	0.59
4:Wl:491:ASN:OD1	4:WK:483:GLN:NE2	2.36	0.59
4:Wl:18:TYR:HA	5:YX:920:LYS:HA	1.85	0.59
4:Wl:104:VAL:HG13	4:Wl:105:ASN:H	1.66	0.59
4:Wl:330:HIS:O	4:Wl:352:SER:OG	2.17	0.59
4:Wm:304:ILE:HD13	4:Wm:309:LEU:HG	1.84	0.59
4:Wm:320:LEU:HA	4:Wm:357:SER:HB3	1.82	0.59
4:Wm:454:TYR:O	4:Wm:600:ARG:NH1	2.34	0.59
4:Wn:507:ASP:OD1	4:Wn:511:ASN:N	2.36	0.59
4:Xl:146:VAL:HG23	4:Xl:149:LYS:HG2	1.85	0.59
4:Xo:180:VAL:HG13	4:Xo:181:PHE:H	1.68	0.59
4:Xo:206:PHE:HB3	4:Xo:223:VAL:HG13	1.85	0.59
5:YX:180:ILE:HD11	5:YX:532:ALA:HB2	1.84	0.59
5:YX:589:LYS:NZ	5:YX:593:GLU:OE1	2.34	0.59
5:YY:15:LYS:HB3	5:YY:22:GLN:HB3	1.84	0.59
5:YY:21:VAL:HG23	5:YY:69:PHE:HB3	1.83	0.59
5:Yc:906:LEU:HD23	6:aE:17:ARG:HD3	1.85	0.59
5:Yx:944:HIS:HA	5:Yx:951:ALA:HA	1.85	0.59
6:aD:60:TYR:HB2	6:aE:9:ARG:HH11	1.67	0.59
6:ac:210:VAL:HG21	6:ac:242:VAL:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b4:109:ASN:H	7:b4:137:ASP:HB2	1.67	0.59
7:b4:549:ASP:OD2	7:b5:271:TYR:OH	2.15	0.59
7:bP:205:MET:O	7:bP:211:GLN:NE2	2.32	0.59
7:bY:642:PHE:HE1	7:dZ:564:ILE:HD11	1.67	0.59
7:cG:135:ASP:HB3	7:cG:139:LYS:HB2	1.85	0.59
7:cJ:571:ARG:NH2	7:cJ:587:GLU:OE1	2.34	0.59
7:dS:272:GLY:O	7:dS:274:GLN:NE2	2.35	0.59
8:eU:83:ALA:O	8:eU:326:ARG:NH2	2.34	0.59
8:fB:545:ARG:HG3	8:fB:549:GLY:HA2	1.85	0.59
8:fR:413:TYR:HB2	8:fR:639:LEU:O	2.02	0.59
11:he:114:ARG:HG2	11:he:126:GLU:HG3	1.84	0.59
11:hj:120:ALA:HB3	11:hj:121:LYS:HD2	1.84	0.59
12:iD:41:ARG:HG2	12:iD:343:ILE:HG12	1.84	0.59
12:iF:219:ILE:HG23	12:iF:222:PHE:HB2	1.85	0.59
16:o2:314:CYS:HA	16:o2:350:GLU:HA	1.84	0.59
17:q5:229:SER:OG	17:q5:231:ASP:OD1	2.20	0.59
1:S0:520:ASN:OD1	1:S5:403:SER:OG	2.19	0.59
1:SO:240:ASN:HB3	1:SO:243:VAL:HG22	1.85	0.59
1:SP:77:THR:HG23	1:SP:80:THR:H	1.68	0.59
2:T6:16:GLY:O	2:T6:19:SER:OG	2.14	0.59
2:Tg:212:ARG:HG3	2:Tg:213:LYS:HG3	1.84	0.59
3:VM:65:LYS:O	3:VM:217:ARG:NH1	2.35	0.59
4:WJ:12:ASP:OD2	5:YC:985:GLU:N	2.36	0.59
4:Wk:556:GLN:HG2	5:YY:185:LYS:HD3	1.83	0.59
4:Wm:132:ASP:HB2	4:Wm:149:LYS:HD3	1.83	0.59
4:XI:18:TYR:CZ	4:XI:21:LYS:HG2	2.38	0.59
4:XI:507:ASP:OD1	4:XI:511:ASN:N	2.34	0.59
4:XJ:104:VAL:HG13	4:XJ:105:ASN:H	1.68	0.59
4:XJ:194:LYS:HG2	4:XJ:198:ASN:HA	1.85	0.59
4:Xm:9:ASN:O	4:Xo:20:ARG:NH2	2.36	0.59
4:Xm:231:ARG:HG2	4:Xm:232:LEU:H	1.67	0.59
4:Xn:189:ASN:ND2	4:Xn:249:ASP:OD2	2.36	0.59
5:YC:914:ASN:OD1	5:YC:1011:ARG:NE	2.32	0.59
5:YY:737:THR:OG1	8:eW:215:VAL:HG11	2.03	0.59
7:b0:66:MET:HB3	7:b0:468:VAL:HG11	1.85	0.59
7:b3:438:ASP:OD1	7:b3:438:ASP:N	2.29	0.59
7:b8:205:MET:O	7:b8:211:GLN:NE2	2.35	0.59
7:cF:110:TYR:H	7:cF:138:GLY:HA3	1.68	0.59
7:cN:470:LEU:HD23	7:cN:525:VAL:HG21	1.85	0.59
7:dT:278:GLN:HG2	7:dT:296:SER:HB2	1.85	0.59
7:dT:485:SER:HB2	16:o6:217:GLU:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dU:103:ILE:HG12	7:dU:182:ILE:HG22	1.85	0.59
7:dZ:269:PHE:CE2	7:dZ:280:ALA:HB1	2.38	0.59
8:eB:127:ARG:NH1	8:eB:271:GLU:OE1	2.35	0.59
8:eB:364:THR:OG1	8:eB:365:ASP:N	2.36	0.59
8:fR:508:ARG:NH1	8:fR:576:ASP:OD1	2.36	0.59
8:fS:349:VAL:HG22	8:fS:392:ILE:HD11	1.84	0.59
10:gd:76:GLN:N	10:gd:79:ASP:OD2	2.31	0.59
11:hi:28:LEU:HD22	11:hi:84:LYS:HB3	1.85	0.59
11:hm:23:VAL:HG11	11:hm:39:THR:HG21	1.85	0.59
15:m6:10:ASP:OD1	15:m6:11:ILE:N	2.36	0.59
15:nT:56:ASP:O	15:nT:76:ASN:ND2	2.35	0.59
1:Sw:303:GLU:HA	1:Sy:309:ALA:HB3	1.85	0.59
2:T1:61:ILE:HG13	2:T2:38:ILE:HG12	1.84	0.59
2:T1:236:ALA:HB2	2:T2:235:TYR:HE2	1.67	0.59
2:Ti:67:TYR:CD2	2:Ti:84:ARG:HB3	2.38	0.59
2:Ti:100:ARG:NH1	2:Ti:155:ASN:O	2.35	0.59
3:Us:88:TRP:HZ3	3:Us:133:LEU:HD21	1.68	0.59
4:WI:71:ASN:OD1	4:WI:72:THR:N	2.36	0.59
4:WI:104:VAL:HG13	4:WI:105:ASN:H	1.68	0.59
4:WJ:304:ILE:HD13	4:WJ:309:LEU:HG	1.85	0.59
4:Wm:314:ASN:HA	4:Wm:380:ILE:HG13	1.85	0.59
4:Xl:104:VAL:HG13	4:Xl:105:ASN:H	1.67	0.59
5:YX:932:ARG:HG3	5:YX:1005:ARG:HH22	1.68	0.59
5:YY:733:ASP:OD1	5:YY:733:ASP:N	2.35	0.59
5:Yx:775:ASP:OD1	5:Yx:775:ASP:N	2.36	0.59
7:b0:455:LYS:HD2	7:b0:502:VAL:HG22	1.84	0.59
7:b8:239:VAL:HG22	7:b8:280:ALA:HB3	1.84	0.59
7:bP:366:GLU:OE2	7:cN:514:ARG:NH1	2.36	0.59
7:cB:444:SER:OG	7:cB:543:SER:OG	2.21	0.59
7:cC:57:PRO:HB3	7:cC:62:ALA:HA	1.85	0.59
7:cE:571:ARG:NH2	7:cE:587:GLU:OE1	2.36	0.59
7:dW:394:VAL:HG11	7:dW:443:ILE:HD12	1.84	0.59
8:eU:143:TYR:HB3	8:eU:169:GLN:HE22	1.67	0.59
8:eW:174:ARG:HB3	8:eW:271:GLU:HG2	1.84	0.59
8:f9:201:VAL:O	8:f9:203:GLY:N	2.35	0.59
8:fS:508:ARG:NH2	8:fS:576:ASP:O	2.36	0.59
8:fW:213:SER:HB2	8:fW:215:VAL:HG12	1.84	0.59
9:gE:136:GLY:O	9:gE:138:VAL:N	2.36	0.59
10:gd:81:ILE:HD12	10:gd:85:ASP:HB3	1.84	0.59
11:h1:97:ASN:HA	11:hJ:3:VAL:HG12	1.85	0.59
11:hx:28:LEU:HD22	11:hx:84:LYS:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iC:100:LYS:NZ	16:o0:197:TYR:O	2.33	0.59
12:iD:38:LEU:HD23	12:iD:346:LEU:HD12	1.83	0.59
17:q7:219:HIS:O	17:q7:243:PHE:HD1	1.86	0.59
17:q9:117:ALA:O	17:q9:119:ASN:N	2.36	0.59
1:S0:307:THR:HG23	1:S5:314:ASN:HB2	1.85	0.58
1:S4:221:THR:HG23	1:S4:224:TYR:H	1.67	0.58
1:S8:451:PHE:HZ	1:S8:471:THR:HG22	1.67	0.58
1:SO:78:PRO:HB3	1:SP:66:VAL:HA	1.84	0.58
1:Sw:514:PRO:O	1:Sw:516:ASN:ND2	2.36	0.58
2:TH:100:ARG:NH2	2:TH:128:ASP:OD1	2.36	0.58
2:Tg:192:PHE:HD2	2:Tg:196:GLU:HB2	1.68	0.58
3:Vs:4:LEU:HD22	4:Xo:356:TYR:HB2	1.84	0.58
4:WK:19:LEU:CB	5:YC:992:PRO:HB2	2.33	0.58
4:WK:103:ASN:N	4:WK:127:ASN:O	2.35	0.58
4:Wk:507:ASP:OD1	4:Wk:511:ASN:N	2.35	0.58
4:Xl:290:SER:HA	4:Xl:371:PHE:H	1.67	0.58
5:YC:872:SER:HB3	6:ZE:324:GLN:HG3	1.84	0.58
5:YY:255:TYR:HB3	5:YY:297:TYR:HB2	1.84	0.58
5:Yc:415:ARG:HH12	5:Yc:424:ARG:HH12	1.51	0.58
5:Yx:220:LYS:NZ	5:Yx:287:LEU:O	2.35	0.58
5:Yy:848:LEU:HD23	5:Yy:849:GLN:H	1.66	0.58
6:ZD:65:VAL:O	6:ZD:69:THR:OG1	2.18	0.58
6:Zc:170:PRO:HB3	6:Zc:188:TRP:CD1	2.37	0.58
7:bO:550:ARG:NH1	7:bO:636:ASN:OD1	2.37	0.58
7:cA:596:LYS:NZ	7:cA:602:TYR:O	2.30	0.58
7:cB:351:THR:HG23	7:cB:354:ASP:H	1.67	0.58
7:cF:166:ASN:OD1	7:cF:166:ASN:N	2.31	0.58
7:cF:467:TRP:CZ3	7:cG:199:GLU:HB2	2.38	0.58
7:dU:585:ARG:NH2	17:q3:98:GLN:OE1	2.36	0.58
8:eB:213:SER:OG	8:eB:216:HIS:ND1	2.35	0.58
8:eU:546:ASP:OD1	8:eU:547:SER:N	2.27	0.58
8:f9:130:ARG:NH1	12:iD:183:ASP:OD1	2.35	0.58
8:fU:45:ASP:OD2	15:m1:87:ARG:NH1	2.36	0.58
8:fU:516:SER:OG	8:fU:617:GLU:OE1	2.20	0.58
8:fU:555:ILE:HD12	8:fU:592:ILE:HD11	1.85	0.58
8:fr:253:THR:OG1	8:fr:254:ALA:N	2.36	0.58
11:hL:114:ARG:HG2	11:hL:126:GLU:HG3	1.85	0.58
11:hq:93:ALA:O	11:hq:100:THR:OG1	2.20	0.58
12:iD:188:VAL:HG12	12:iD:197:MET:HG2	1.85	0.58
1:S0:193:LEU:HB2	1:S5:185:GLU:HA	1.83	0.58
1:S4:193:LEU:HB2	1:S6:185:GLU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:399:PHE:HE1	1:S7:401:ARG:HB3	1.67	0.58
3:Up:127:ALA:HA	3:Up:130:ARG:HH11	1.68	0.58
3:VM:126:VAL:HG21	3:VM:154:SER:HA	1.85	0.58
3:VN:148:ASP:OD1	3:VN:148:ASP:N	2.35	0.58
4:XK:314:ASN:HA	4:XK:380:ILE:HG13	1.84	0.58
4:Xm:323:THR:N	4:Xm:358:VAL:O	2.36	0.58
5:YC:69:PHE:CZ	5:YC:71:ASP:HB2	2.38	0.58
5:YY:182:GLN:NE2	5:YY:185:LYS:O	2.35	0.58
5:Yx:696:ARG:HA	5:Yx:725:ARG:HD3	1.85	0.58
6:ZZ:35:ASN:ND2	6:Zb:19:GLU:OE2	2.36	0.58
7:bP:228:GLY:HA2	7:bP:345:SER:HB3	1.85	0.58
7:bQ:561:LYS:NZ	7:cP:12:GLU:OE2	2.31	0.58
7:cC:10:LEU:HD13	7:cH:561:LYS:HD2	1.85	0.58
7:cI:2:THR:OG1	7:cI:3:LEU:N	2.34	0.58
7:cI:202:GLU:OE1	7:cI:203:ALA:N	2.30	0.58
7:cK:490:SER:O	7:cK:496:ARG:NH1	2.35	0.58
7:cN:206:THR:HA	7:cN:211:GLN:HE21	1.68	0.58
7:dW:171:ILE:HD13	7:dW:171:ILE:H	1.68	0.58
8:eB:472:ASP:OD1	8:eB:473:HIS:N	2.36	0.58
8:fS:377:LYS:HD3	8:fS:379:LYS:H	1.68	0.58
9:gG:3:MET:HB2	12:iD:275:ILE:HG12	1.85	0.58
11:hm:3:VAL:HG12	11:ht:97:ASN:HA	1.84	0.58
11:hq:23:VAL:HG11	11:hq:39:THR:HG21	1.84	0.58
16:ol:141:HIS:NE2	16:pB:233:SER:O	2.36	0.58
17:q9:177:TRP:CG	17:q9:220:SER:HG	2.20	0.58
1:S2:415:ASN:O	1:S2:424:ARG:NH1	2.35	0.58
1:SA:348:MET:HB2	1:Sw:346:ILE:HB	1.86	0.58
1:SP:512:THR:HA	1:SQ:442:MET:HA	1.84	0.58
1:Sx:2:SER:N	4:Wn:239:GLY:O	2.37	0.58
2:T1:14:GLU:O	2:T1:16:GLY:N	2.37	0.58
3:UL:73:ASN:HA	3:UN:70:ILE:HG12	1.84	0.58
3:Ut:42:GLN:NE2	3:Ut:51:ASN:OD1	2.36	0.58
3:VL:116:ALA:HB2	3:VL:128:LYS:HG3	1.86	0.58
3:Vq:13:ARG:NH2	3:Vu:17:PHE:O	2.36	0.58
3:Vu:130:ARG:HE	3:Vu:148:ASP:CG	2.11	0.58
4:WI:502:ASN:ND2	4:WI:516:ALA:O	2.36	0.58
4:WJ:229:ASN:OD1	4:WJ:230:ILE:N	2.36	0.58
4:Wk:164:ARG:NH2	4:Wk:243:GLN:OE1	2.36	0.58
4:Wl:180:VAL:HG13	4:Wl:181:PHE:H	1.68	0.58
4:Xm:251:VAL:O	4:Xo:161:ASN:ND2	2.34	0.58
5:YC:555:ARG:O	5:YC:557:VAL:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:454:ASN:N	5:YY:454:ASN:OD1	2.36	0.58
5:Yy:248:LEU:HD22	5:Yy:249:GLY:H	1.68	0.58
5:Yy:925:LEU:N	5:Yy:926:PRO:HD3	2.18	0.58
5:Yy:934:ALA:H	5:Yy:997:SER:HB2	1.68	0.58
6:Za:216:LEU:HD23	6:Za:236:PHE:HB3	1.84	0.58
6:Zc:189:GLU:OE2	6:Zc:241:ARG:NH2	2.36	0.58
7:b0:199:GLU:OE2	7:b0:200:ASN:ND2	2.34	0.58
7:b7:427:VAL:HG13	7:b7:520:GLU:HG3	1.84	0.58
7:bO:246:LYS:HB2	7:bO:250:ALA:HB2	1.86	0.58
7:bY:571:ARG:NH2	7:bY:587:GLU:OE1	2.34	0.58
7:cO:400:ARG:HD3	7:cO:403:CYS:SG	2.43	0.58
7:dT:8:ILE:HG21	15:nT:62:PHE:CZ	2.38	0.58
7:dT:269:PHE:CE2	7:dT:280:ALA:HB1	2.39	0.58
7:dV:269:PHE:CE2	7:dV:280:ALA:HB1	2.37	0.58
8:eU:507:ASP:OD1	8:eU:507:ASP:N	2.36	0.58
8:fU:454:ILE:HG22	8:fU:455:PHE:H	1.68	0.58
9:gE:523:GLU:OE1	9:gH:531:ASN:ND2	2.36	0.58
11:hJ:96:GLY:O	11:hX:56:ARG:NH2	2.28	0.58
11:hK:64:ARG:NH1	11:hL:95:GLN:HG3	2.18	0.58
11:ho:113:VAL:HG13	11:ho:127:ILE:HG12	1.85	0.58
14:IV:55:ARG:NH2	14:IV:82:PRO:O	2.36	0.58
1:S0:97:LEU:HD13	1:S5:96:GLY:HA2	1.85	0.58
1:S1:451:PHE:HZ	1:S1:471:THR:HG22	1.69	0.58
1:S2:99:ARG:O	1:S2:115:SER:N	2.30	0.58
1:S3:417:ASN:O	1:S3:424:ARG:NH1	2.36	0.58
1:S4:411:ASN:O	1:S4:415:ASN:ND2	2.33	0.58
1:S6:170:ILE:HG23	1:S8:173:ILE:HD13	1.84	0.58
1:S7:472:ARG:HG3	1:S7:473:LYS:HG3	1.86	0.58
2:TH:67:TYR:CD2	2:TH:84:ARG:HB3	2.38	0.58
2:Te:282:GLN:NE2	2:Ti:275:ALA:O	2.36	0.58
2:Tg:17:ASN:OD1	2:Tg:18:ALA:N	2.36	0.58
3:UL:127:ALA:HA	3:UL:130:ARG:HH11	1.67	0.58
3:Uu:4:LEU:HD13	4:Wk:356:TYR:HE2	1.69	0.58
4:Wk:92:VAL:HG12	4:Wk:136:VAL:HG12	1.83	0.58
4:Wl:64:TRP:HA	4:Wl:64:TRP:HE3	1.67	0.58
4:Wo:15:THR:OG1	4:Wo:16:GLY:N	2.36	0.58
4:XK:312:ARG:HG2	4:XK:317:LEU:HA	1.85	0.58
4:Xj:557:TYR:OH	4:Xl:556:GLN:OE1	2.20	0.58
4:Xn:23:GLY:HA2	4:Xn:26:ILE:HG22	1.85	0.58
4:Xn:102:TRP:CZ3	4:Xn:131:SER:HB2	2.38	0.58
5:YX:145:ALA:HA	5:YX:542:THR:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:613:LYS:NZ	8:fU:613:SER:O	2.36	0.58
5:Yc:974:ASN:OD1	5:Yc:976:SER:OG	2.19	0.58
5:Yc:990:MET:C	5:Yc:992:PRO:HD3	2.28	0.58
5:Yx:473:TYR:OH	6:aa:70:ASP:OD2	2.14	0.58
5:Yx:580:LYS:O	5:Yx:605:ARG:NH1	2.37	0.58
6:aa:65:VAL:O	6:aa:69:THR:OG1	2.18	0.58
7:b0:378:CYS:HG	7:b0:454:TYR:HH	1.47	0.58
7:b5:272:GLY:O	7:b5:274:GLN:NE2	2.36	0.58
7:bY:11:LYS:HG2	7:bY:13:THR:HG23	1.85	0.58
7:cD:494:TYR:O	7:cD:498:GLN:NE2	2.34	0.58
7:cH:110:TYR:H	7:cH:138:GLY:HA3	1.67	0.58
7:cI:455:LYS:HB3	7:cI:470:LEU:HD13	1.84	0.58
7:cK:135:ASP:OD1	7:cK:136:ALA:N	2.35	0.58
7:cM:131:ILE:HD11	7:cM:171:ILE:HD13	1.84	0.58
7:dW:256:PRO:HG2	7:dW:339:THR:H	1.68	0.58
7:dZ:57:PRO:O	7:dZ:462:ASN:ND2	2.26	0.58
8:eU:60:LEU:HB3	8:fR:63:ASN:ND2	2.17	0.58
8:fA:456:ASN:O	8:fA:634:THR:OG1	2.21	0.58
8:fA:536:TYR:OH	8:fA:562:ASP:OD2	2.13	0.58
8:fR:484:MET:HE1	8:fR:503:ASN:HB2	1.84	0.58
8:fU:127:ARG:NH1	8:fU:271:GLU:OE1	2.36	0.58
8:fU:501:TYR:O	8:fU:503:ASN:ND2	2.37	0.58
9:gG:36:PRO:HG3	9:gG:45:MET:HB2	1.84	0.58
14:k4:50:ILE:HD12	14:k4:87:ILE:HG13	1.86	0.58
16:o6:212:THR:HG21	17:q9:149:ARG:HG2	1.85	0.58
17:q9:36:SER:OG	17:q9:37:LEU:N	2.36	0.58
17:q9:257:ARG:NH2	17:q9:260:GLU:OE2	2.27	0.58
1:S1:463:THR:HG23	1:S3:483:PHE:HE1	1.68	0.58
1:S2:190:VAL:HG12	1:S3:190:VAL:HG12	1.85	0.58
1:S3:89:ASN:OD1	1:S3:90:ALA:N	2.36	0.58
1:S4:330:ARG:NH2	1:S4:336:GLU:OE2	2.33	0.58
1:S8:236:VAL:HG21	1:S8:249:THR:HB	1.86	0.58
1:SO:260:ARG:NH1	1:SQ:251:ASN:O	2.36	0.58
1:SP:163:LEU:HB3	1:SQ:155:ASP:HA	1.84	0.58
2:TG:17:ASN:OD1	2:TG:18:ALA:N	2.35	0.58
2:Tf:28:GLY:O	2:Tf:32:ASN:ND2	2.36	0.58
3:UM:70:ILE:HG12	3:UN:73:ASN:HA	1.86	0.58
3:Uu:73:ASN:HD21	3:Uu:76:GLY:H	1.51	0.58
3:Vp:10:VAL:HG11	3:Vr:10:VAL:HG11	1.85	0.58
4:WK:454:TYR:O	4:WK:600:ARG:NH1	2.36	0.58
4:Wm:335:ASP:OD1	4:Wm:335:ASP:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:86:VAL:HG22	4:XI:87:ASN:H	1.69	0.58
4:XJ:312:ARG:O	4:XJ:382:ASN:N	2.31	0.58
4:XK:214:SER:OG	4:XK:222:LEU:O	2.22	0.58
4:XK:312:ARG:HD3	4:XK:317:LEU:HD12	1.84	0.58
4:Xl:54:ALA:HB3	4:Xl:74:SER:HB3	1.84	0.58
4:Xm:191:ILE:O	4:Xo:164:ARG:NH2	2.32	0.58
5:Yy:546:GLU:CD	5:Yy:547:ASN:H	2.12	0.58
5:Yy:714:TYR:HE2	5:Yy:723:VAL:HG21	1.68	0.58
7:b9:467:TRP:CZ3	7:cD:199:GLU:HB2	2.38	0.58
7:bY:135:ASP:HB3	7:bY:139:LYS:HB2	1.86	0.58
7:cA:467:TRP:CZ3	7:cJ:199:GLU:HB2	2.39	0.58
7:cB:406:LEU:HD13	7:cB:475:ALA:HB2	1.84	0.58
7:cC:202:GLU:OE1	7:cC:203:ALA:N	2.29	0.58
7:cE:411:ARG:HG3	7:cE:415:VAL:HG21	1.86	0.58
7:cH:220:PRO:HG2	7:cH:338:LEU:HD11	1.85	0.58
7:cN:486:GLN:NE2	11:hJ:11:GLU:OE1	2.36	0.58
7:dT:456:TYR:HB3	7:dT:503:ILE:HG12	1.86	0.58
8:eU:555:ILE:HD12	8:eU:592:ILE:HD11	1.85	0.58
8:eW:364:THR:OG1	8:eW:365:ASP:N	2.37	0.58
8:f9:343:THR:O	8:f9:347:THR:HG23	2.03	0.58
8:fB:454:ILE:HG22	8:fB:455:PHE:H	1.67	0.58
8:fW:209:TRP:HB2	8:fW:223:ILE:HD12	1.86	0.58
9:gE:35:HIS:HD2	9:gE:47:ILE:HD12	1.69	0.58
11:hK:48:LYS:HG3	11:hK:59:ASN:HB3	1.84	0.58
12:iC:250:ASN:ND2	12:iC:272:GLU:OE1	2.31	0.58
15:m1:113:ILE:HD13	16:pB:111:ILE:HD11	1.83	0.58
16:o2:275:GLU:OE2	16:pB:113:ASN:ND2	2.36	0.58
17:q5:166:SER:OG	17:q8:14:ALA:O	2.14	0.58
1:S1:62:THR:HG23	1:S1:64:GLN:H	1.68	0.58
1:S4:229:LYS:HG3	1:S4:243:VAL:HG12	1.86	0.58
1:S4:260:ARG:NH2	1:S8:276:ASP:OD1	2.33	0.58
1:S5:161:THR:HG21	1:S7:156:ASP:HA	1.86	0.58
1:S6:118:PRO:HB3	1:S8:106:ALA:HA	1.86	0.58
1:S7:503:ASN:HB3	1:S7:507:LEU:HD23	1.86	0.58
1:SO:212:PRO:HB3	1:SP:199:VAL:HA	1.85	0.58
2:T6:201:LYS:NZ	2:T6:220:ASN:OD1	2.32	0.58
2:T7:19:SER:HB2	5:Yy:257:ARG:HH12	1.68	0.58
2:Tg:219:ILE:HG21	2:Tg:254:PHE:HE2	1.68	0.58
3:Vt:7:LYS:HB3	4:Xj:318:GLN:NE2	2.19	0.58
4:Xl:36:GLU:HG3	4:Xn:43:PRO:HG2	1.84	0.58
4:Xn:322:GLY:HA2	4:Xn:360:THR:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:105:THR:OG1	5:YY:626:GLN:NE2	2.31	0.58
5:YY:360:ASN:HB3	5:YY:361:PRO:HD2	1.86	0.58
5:YY:925:LEU:HB2	5:YY:992:PRO:HD2	1.86	0.58
5:Yx:506:MET:HG3	5:Yx:507:LYS:H	1.68	0.58
5:Yy:769:ASP:HB2	5:Yy:812:THR:HA	1.84	0.58
6:aZ:202:ARG:O	6:aZ:248:ARG:NH1	2.35	0.58
6:ab:28:ILE:HG22	6:ab:83:PRO:HG3	1.85	0.58
7:b4:28:ALA:HB2	7:b4:370:VAL:HG21	1.85	0.58
7:b6:490:SER:O	7:b6:496:ARG:NH1	2.36	0.58
7:bN:99:ILE:HA	7:bN:187:ILE:HD13	1.84	0.58
7:bP:609:ASP:O	7:bP:613:ASN:ND2	2.36	0.58
7:cA:131:ILE:HD13	7:cA:140:ILE:HG21	1.85	0.58
7:cC:256:PRO:HG2	7:cC:339:THR:H	1.68	0.58
7:cE:432:ALA:HB2	7:cE:440:ASN:HD22	1.68	0.58
7:cN:209:ASP:OD1	7:cN:209:ASP:N	2.30	0.58
7:dU:254:ILE:HD11	7:dU:261:ARG:HB2	1.83	0.58
7:dV:394:VAL:HG11	7:dV:443:ILE:HD12	1.86	0.58
8:eU:119:ASN:O	8:eU:155:ARG:NH1	2.36	0.58
8:eU:281:ASN:OD1	8:eU:316:GLY:N	2.37	0.58
11:hf:96:GLY:O	11:ht:56:ARG:NH2	2.34	0.58
11:hv:70:THR:HG22	11:hv:156:THR:HG22	1.84	0.58
14:k4:31:ASN:OD1	14:k4:31:ASN:N	2.36	0.58
15:m6:101:ASP:OD1	15:m6:101:ASP:N	2.36	0.58
16:pA:329:PHE:HE2	16:pA:339:PRO:HG3	1.67	0.58
17:q4:247:VAL:HG11	17:q9:185:VAL:HG12	1.85	0.58
1:S4:141:VAL:HG22	1:S6:139:ASN:HB2	1.84	0.58
1:S7:310:ASN:OD1	1:S7:311:GLY:N	2.36	0.58
1:SA:24:ASN:HB2	1:Sy:40:SER:HB3	1.86	0.58
1:SA:424:ARG:O	1:Sw:504:ARG:NH2	2.29	0.58
1:Sw:160:MET:HG3	1:Sw:164:LYS:HZ1	1.67	0.58
1:Sy:162:PRO:O	1:Sy:166:GLN:N	2.35	0.58
2:T1:53:GLY:HA2	2:T1:59:GLN:H	1.68	0.58
3:Us:37:SER:HA	3:Us:50:PRO:HB3	1.85	0.58
3:Vp:6:ASN:HB3	3:Vr:12:SER:HB3	1.86	0.58
3:Vs:195:LEU:HA	3:Vs:215:PHE:HA	1.85	0.58
4:Wj:3:GLN:HG2	4:Wj:25:LYS:HG3	1.84	0.58
4:Wj:393:LEU:HD21	4:Wn:390:LEU:HG	1.85	0.58
4:Wo:103:ASN:N	4:Wo:127:ASN:O	2.36	0.58
4:XK:223:VAL:HB	4:XK:224:PRO:HD3	1.85	0.58
4:XK:358:VAL:HG13	4:XK:369:LEU:HB2	1.85	0.58
4:Xj:221:GLU:OE2	4:Xj:233:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xl:213:GLY:HA3	4:Xl:231:ARG:HB3	1.86	0.58
5:Yc:969:TYR:CG	5:Yc:982:LEU:HD13	2.39	0.58
5:Yy:715:LEU:HD11	6:ac:54:VAL:HG21	1.84	0.58
6:ZD:228:ASN:HB3	6:ZD:231:TRP:HD1	1.68	0.58
7:b0:137:ASP:N	7:b0:137:ASP:OD1	2.34	0.58
7:bQ:400:ARG:NH1	7:bQ:403:CYS:SG	2.76	0.58
7:cF:66:MET:HG2	7:cF:468:VAL:HG21	1.84	0.58
7:cG:256:PRO:HG2	7:cG:339:THR:H	1.67	0.58
7:cH:11:LYS:HG2	7:cH:13:THR:HG23	1.85	0.58
7:cM:118:VAL:HB	7:cM:126:GLU:HB3	1.86	0.58
7:dU:612:ASN:HD21	7:dU:626:THR:HG23	1.69	0.58
8:eW:428:LYS:O	8:eW:474:SER:HB3	2.03	0.58
8:fB:595:ILE:HG22	8:fB:602:ILE:HA	1.85	0.58
8:fU:213:SER:OG	8:fU:216:HIS:ND1	2.37	0.58
8:fs:110:ILE:HD12	8:fs:302:GLU:HA	1.85	0.58
9:gG:18:ARG:NH1	9:gG:78:GLU:OE2	2.35	0.58
12:iC:38:LEU:HD23	12:iC:346:LEU:HD12	1.85	0.58
15:nT:116:PRO:HG2	16:pA:110:LEU:HD22	1.86	0.58
16:o0:248:GLY:HA2	16:o6:307:LYS:HZ1	1.67	0.58
16:o6:330:ASN:OD1	17:q8:189:ARG:NH2	2.36	0.58
17:q5:101:LEU:HD23	17:q8:253:VAL:HG21	1.86	0.58
1:S4:97:LEU:HB3	1:S6:95:TYR:HB3	1.86	0.58
1:S5:273:SER:OG	1:S7:257:THR:O	2.22	0.58
1:S6:214:THR:O	1:S6:218:SER:OG	2.21	0.58
1:Sv:102:THR:HG23	1:Sv:104:ASP:H	1.69	0.58
1:Sv:106:ALA:HA	1:Sz:118:PRO:HB3	1.85	0.58
1:Sv:357:ASP:OD1	1:Sx:339:ARG:NH1	2.31	0.58
2:T4:70:HIS:HB2	2:T4:75:TYR:CZ	2.39	0.58
2:T7:50:VAL:C	2:T7:52:ASN:H	2.11	0.58
2:TF:44:ASP:HB3	2:TF:47:LYS:HE3	1.84	0.58
2:Ti:50:VAL:O	2:Ti:52:ASN:N	2.36	0.58
3:UL:32:ARG:NH1	3:UM:144:ASN:OD1	2.35	0.58
3:Ur:15:ALA:HA	3:Ur:18:LEU:HG	1.86	0.58
4:Wk:9:ASN:OD1	4:Wk:9:ASN:N	2.37	0.58
4:Wk:271:THR:HB	4:Wk:273:LYS:HG2	1.84	0.58
4:Wl:11:VAL:HG13	4:Wn:20:ARG:HG2	1.85	0.58
4:Wl:319:GLU:HB2	4:Wn:262:GLN:HE22	1.69	0.58
4:Wl:339:GLU:HG3	4:Wl:340:VAL:HG22	1.85	0.58
4:XK:362:GLU:HG3	4:XK:367:GLU:HB2	1.85	0.58
4:Xk:265:LEU:HG	4:Xk:379:ASP:HB2	1.84	0.58
4:Xl:195:HIS:CE1	4:Xl:232:LEU:HD21	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:653:MET:HG3	5:YY:654:PRO:HD2	1.85	0.58
5:Yc:723:VAL:HG13	8:fB:257:ILE:HD11	1.86	0.58
5:Yx:474:GLU:HB3	6:ac:155:LYS:HE2	1.84	0.58
7:b3:653:GLU:HA	7:b4:16:GLN:HE22	1.69	0.58
7:b8:406:LEU:HD13	7:b8:475:ALA:HB2	1.86	0.58
7:b9:456:TYR:HB3	7:b9:503:ILE:HG23	1.85	0.58
7:bO:485:SER:OG	7:bO:486:GLN:N	2.34	0.58
7:bR:19:VAL:O	7:bR:46:ASN:ND2	2.30	0.58
7:bR:303:ASP:OD2	7:bR:307:SER:OG	2.18	0.58
7:bY:2:THR:OG1	7:bY:3:LEU:N	2.34	0.58
7:cC:135:ASP:OD1	7:cC:136:ALA:N	2.37	0.58
7:cC:166:ASN:OD1	7:cC:166:ASN:N	2.19	0.58
7:cK:239:VAL:HG22	7:cK:280:ALA:HB3	1.85	0.58
7:dT:23:SER:OG	7:dT:24:THR:N	2.36	0.58
8:eU:466:THR:HG22	8:f9:466:THR:HG22	1.84	0.58
8:fA:590:TYR:HB3	8:fA:609:ILE:HD11	1.86	0.58
8:fB:425:ALA:O	8:fB:427:ASN:N	2.36	0.58
8:fR:197:VAL:HG23	8:fR:272:TYR:HB3	1.86	0.58
8:fU:119:ASN:O	8:fU:155:ARG:NH1	2.36	0.58
11:hJ:58:ILE:HG13	17:q8:12:ILE:HG12	1.86	0.58
11:hg:114:ARG:HG2	11:hg:126:GLU:HG3	1.86	0.58
11:hh:82:ARG:HH12	11:hh:138:GLY:HA2	1.69	0.58
11:ho:41:LEU:HG	11:ho:127:ILE:HD13	1.85	0.58
11:hp:83:GLN:HA	11:hp:86:VAL:HG22	1.84	0.58
11:hv:143:ASP:OD1	11:hv:144:TRP:N	2.37	0.58
12:iC:92:HIS:NE2	12:iC:108:GLU:OE1	2.36	0.58
16:pB:157:THR:HG23	16:pB:159:THR:H	1.68	0.58
17:q3:99:SER:OG	17:q3:100:LEU:N	2.36	0.58
1:S1:239:ASN:OD1	1:S1:253:ARG:NH2	2.36	0.58
1:S1:481:SER:OG	1:S2:449:GLY:O	2.18	0.58
1:S7:175:GLN:HG2	3:Vr:205:ASN:HB2	1.86	0.58
1:S7:405:ARG:HD2	1:S7:430:THR:HB	1.85	0.58
1:SP:58:LEU:HD11	1:SP:75:ALA:HB2	1.86	0.58
1:SQ:20:PRO:HG3	1:SQ:29:ILE:HG13	1.83	0.58
1:Sw:359:TRP:NE1	1:Sy:340:THR:O	2.31	0.58
1:Sx:386:ASN:HD21	1:Sx:389:ASN:HB2	1.67	0.58
2:TG:8:LYS:HD3	2:TG:30:LYS:HG2	1.86	0.58
2:TG:192:PHE:HD2	2:TG:196:GLU:HB2	1.68	0.58
2:Tg:50:VAL:C	2:Tg:52:ASN:H	2.11	0.58
2:Ti:219:ILE:HG21	2:Ti:254:PHE:HE2	1.69	0.58
4:WI:329:PHE:HB3	4:WI:332:VAL:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:104:VAL:HG13	4:Wk:105:ASN:H	1.68	0.58
4:Wk:469:PRO:HA	4:Wk:472:TYR:CZ	2.38	0.58
4:Wn:314:ASN:HA	4:Wn:380:ILE:HG13	1.85	0.58
4:Wo:180:VAL:HG13	4:Wo:181:PHE:H	1.69	0.58
4:Xl:486:VAL:HG12	4:XJ:488:VAL:HG22	1.86	0.58
4:Xl:110:VAL:HG22	4:Xl:123:PRO:HB3	1.86	0.58
4:Xl:261:ARG:NE	4:Xl:297:GLY:O	2.35	0.58
4:Xn:507:ASP:OD1	4:Xn:511:ASN:N	2.36	0.58
4:Xo:214:SER:OG	4:Xo:222:LEU:O	2.22	0.58
5:YX:712:ASN:HD21	5:YX:720:ARG:HG3	1.69	0.58
5:YY:134:TYR:HD2	5:YY:135:VAL:HG22	1.69	0.58
5:YY:657:TYR:HD2	8:eW:52:ARG:HD3	1.69	0.58
5:Yy:240:GLN:HB3	5:Yy:245:THR:HG23	1.85	0.58
5:Yy:990:MET:C	5:Yy:992:PRO:HD3	2.29	0.58
6:ac:202:ARG:O	6:ac:248:ARG:NH1	2.35	0.58
7:b4:110:TYR:H	7:b4:138:GLY:HA3	1.69	0.58
7:cA:470:LEU:HD23	7:cA:525:VAL:HG21	1.86	0.58
7:cE:444:SER:OG	7:cE:543:SER:OG	2.18	0.58
7:cI:246:LYS:HB2	7:cI:250:ALA:HB2	1.85	0.58
7:cO:2:THR:OG1	7:cO:3:LEU:N	2.35	0.58
7:cP:135:ASP:OD1	7:cP:136:ALA:N	2.36	0.58
7:dT:406:LEU:HD13	7:dT:475:ALA:HB2	1.86	0.58
7:dZ:560:LEU:O	7:dZ:564:ILE:HG12	2.03	0.58
8:eB:273:ILE:HG22	8:eB:275:THR:HG22	1.85	0.58
8:f9:169:GLN:HE21	8:f9:276:ASN:HB3	1.68	0.58
8:fB:396:LEU:O	8:fB:400:ASN:ND2	2.37	0.58
8:fs:592:ILE:HG13	8:fs:604:TRP:HB2	1.86	0.58
9:gH:183:ASP:OD2	9:gH:339:TYR:OH	2.21	0.58
11:hy:41:LEU:HG	11:hy:127:ILE:HD13	1.85	0.58
15:m6:84:TYR:HA	16:pB:271:LYS:HE2	1.85	0.58
1:S0:481:SER:OG	1:S5:449:GLY:O	2.21	0.58
1:S5:240:ASN:HB3	1:S5:243:VAL:HG22	1.86	0.58
1:SO:199:VAL:HG21	1:SO:214:THR:HB	1.85	0.58
1:Sw:101:SER:O	1:Sw:120:LYS:NZ	2.35	0.58
1:Sw:143:LYS:HA	1:Sy:134:SER:HB2	1.84	0.58
1:Sx:463:THR:HG21	1:Sz:490:ILE:HD12	1.86	0.58
3:UM:37:SER:HA	3:UM:50:PRO:HB3	1.85	0.58
3:UN:90:PHE:HE1	3:UN:178:ILE:HG23	1.69	0.58
3:Vp:40:ILE:HG13	3:Vr:168:LEU:HD21	1.85	0.58
4:Wm:150:GLN:O	4:Wm:152:ASP:N	2.37	0.58
4:Xj:248:MET:HB2	4:Xj:254:TRP:CD1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xj:594:THR:OG1	4:Xi:518:GLY:N	2.36	0.58
4:Xi:304:ILE:HD13	4:Xi:309:LEU:HG	1.84	0.58
4:Xm:215:PRO:HG3	4:Xm:226:ASP:HB2	1.85	0.58
4:Xn:204:ASP:N	4:Xn:204:ASP:OD1	2.37	0.58
4:Xo:454:TYR:O	4:Xo:600:ARG:NH1	2.36	0.58
5:Yx:369:ASP:OD1	5:Yx:436:THR:OG1	2.20	0.58
5:Yx:724:ALA:C	5:Yx:726:PHE:H	2.11	0.58
5:Yy:574:LYS:HG3	5:Yy:609:GLU:HG2	1.86	0.58
5:Yy:914:ASN:OD1	5:Yy:1011:ARG:NE	2.34	0.58
6:Zb:43:ARG:O	6:Zb:270:ARG:HG2	2.04	0.58
6:Zc:44:SER:HB3	6:Zc:76:MET:HE3	1.86	0.58
6:ab:43:ARG:O	6:ab:270:ARG:HG2	2.03	0.58
7:b4:394:VAL:HG11	7:b4:443:ILE:HD12	1.84	0.58
7:b5:116:ILE:HD11	7:b5:131:ILE:HG12	1.86	0.58
7:b7:47:GLU:OE1	7:b7:461:TYR:OH	2.22	0.58
7:b8:470:LEU:HD23	7:b8:525:VAL:HG21	1.86	0.58
7:bO:40:GLN:H	7:bO:81:VAL:HG23	1.69	0.58
7:cC:137:ASP:OD1	7:cC:137:ASP:N	2.32	0.58
7:cE:140:ILE:O	7:cE:141:LYS:NZ	2.35	0.58
7:cH:510:ARG:HG2	7:cH:511:GLN:H	1.69	0.58
7:cL:202:GLU:OE1	7:cL:203:ALA:N	2.37	0.58
7:cN:90:LYS:NZ	7:cN:190:ASP:OD1	2.37	0.58
7:dS:381:GLU:O	7:dS:385:THR:OG1	2.21	0.58
8:fS:388:GLN:O	8:fS:392:ILE:HG22	2.04	0.58
8:fr:412:ASN:OD1	8:fr:486:ARG:NH1	2.36	0.58
8:fs:68:GLN:O	8:fs:72:ASN:HB3	2.04	0.58
9:gE:39:ARG:NH2	9:gE:112:GLU:O	2.37	0.58
11:hj:64:ARG:NH1	11:hk:95:GLN:HG3	2.19	0.58
12:iD:89:GLY:HA3	12:iD:115:ILE:HD12	1.86	0.58
15:m6:81:VAL:HG11	15:m6:91:LEU:HD13	1.86	0.58
1:S0:401:ARG:HB3	1:S7:399:PHE:HE1	1.69	0.57
1:S3:349:TRP:NE1	1:S3:353:SER:O	2.37	0.57
1:S3:496:ARG:NH1	1:S3:501:THR:OG1	2.36	0.57
1:S6:190:VAL:HG12	1:S8:190:VAL:HG12	1.85	0.57
1:S8:29:ILE:HG22	1:S8:30:THR:H	1.68	0.57
1:SA:372:CYS:HB3	1:SA:375:TYR:HB3	1.86	0.57
1:Sv:47:VAL:HG23	1:Sv:57:ILE:HD12	1.84	0.57
1:Sx:493:GLU:HG3	1:Sx:496:ARG:HH21	1.68	0.57
1:Sz:29:ILE:HG22	1:Sz:30:THR:H	1.68	0.57
2:T2:16:GLY:O	2:T2:19:SER:OG	2.17	0.57
2:Td:7:LYS:HE2	2:Th:53:GLY:HA3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vr:37:SER:HA	3:Vr:50:PRO:HB3	1.84	0.57
4:WK:180:VAL:HG13	4:WK:181:PHE:H	1.69	0.57
4:Wj:43:PRO:HG2	4:Wn:36:GLU:HG3	1.85	0.57
4:Wn:469:PRO:HA	4:Wn:472:TYR:CZ	2.38	0.57
4:XI:214:SER:O	4:XI:231:ARG:HB3	2.04	0.57
4:XK:180:VAL:HG13	4:XK:181:PHE:H	1.69	0.57
4:Xj:20:ARG:HG2	4:Xn:11:VAL:HG13	1.86	0.57
4:Xk:71:ASN:OD1	4:Xk:72:THR:N	2.37	0.57
5:Yy:555:ARG:O	5:Yy:557:VAL:N	2.37	0.57
5:Yy:856:ASN:HB3	8:fW:495:PRO:HB3	1.86	0.57
6:Za:229:LEU:O	6:Za:232:GLN:NE2	2.29	0.57
6:Zb:134:LEU:HB2	6:Zb:187:VAL:HG13	1.85	0.57
7:b0:2:THR:OG1	7:b0:3:LEU:N	2.36	0.57
7:b0:430:ARG:HG3	7:b0:522:ILE:HD11	1.85	0.57
7:b6:28:ALA:HB2	7:b6:370:VAL:HG21	1.86	0.57
7:b8:617:VAL:HG22	7:b8:622:GLU:HB2	1.85	0.57
7:bO:406:LEU:HD22	7:bO:474:ILE:HG13	1.85	0.57
7:bP:44:VAL:HG11	7:bP:50:LEU:HB2	1.86	0.57
7:cD:12:GLU:HG3	7:cL:548:PHE:CE2	2.38	0.57
7:cK:100:GLU:OE2	7:cK:186:LYS:NZ	2.30	0.57
7:cP:400:ARG:NH1	7:cP:402:ASP:OD1	2.37	0.57
7:dV:379:ALA:HB2	7:dV:469:PRO:HD3	1.85	0.57
8:eB:165:LEU:HD12	8:eB:167:LEU:HD21	1.86	0.57
8:fA:543:THR:OG1	8:fA:576:ASP:OD2	2.22	0.57
8:fU:120:ARG:O	8:fU:161:TYR:OH	2.22	0.57
8:fW:45:ASP:O	8:fW:47:ASP:N	2.36	0.57
11:hw:115:GLN:NE2	11:hx:151:GLN:OE1	2.37	0.57
11:hx:64:ARG:NH1	11:hy:95:GLN:HG3	2.18	0.57
16:o1:95:ALA:HB3	16:o1:99:ILE:HA	1.86	0.57
1:S5:463:THR:HG21	1:S7:490:ILE:HD12	1.84	0.57
1:S6:401:ARG:NH1	1:S6:430:THR:O	2.37	0.57
1:SA:85:LEU:HD22	1:Sw:84:ARG:HH12	1.69	0.57
1:SA:177:ALA:HB3	1:SA:178:PRO:HD3	1.85	0.57
1:SA:229:LYS:HG3	1:SA:243:VAL:HG12	1.86	0.57
1:SA:520:ASN:OD1	1:Sw:403:SER:OG	2.22	0.57
1:SO:472:ARG:HH21	4:Xo:361:ASP:HB3	1.68	0.57
1:Sv:449:GLY:HA2	1:Sx:484:THR:HG22	1.86	0.57
1:Sw:102:THR:HG23	1:Sw:104:ASP:H	1.68	0.57
1:Sx:192:GLN:OE1	1:Sz:188:GLN:NE2	2.37	0.57
2:T1:53:GLY:HA3	2:T2:7:LYS:HE2	1.86	0.57
3:VL:10:VAL:HG11	3:VM:10:VAL:HG11	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:339:GLU:HG3	4:WI:340:VAL:HG13	1.86	0.57
4:Wo:396:LYS:HG3	4:Wo:399:ILE:HD11	1.86	0.57
4:XJ:3:GLN:HG3	4:XJ:25:LYS:HG3	1.86	0.57
4:XJ:86:VAL:HG22	4:XJ:87:ASN:H	1.68	0.57
4:Xj:551:ILE:HG13	4:Xn:568:LYS:HG2	1.86	0.57
4:Xo:362:GLU:HB2	4:Xo:366:PRO:HA	1.86	0.57
5:YC:480:LEU:HD22	5:YC:488:MET:HB2	1.86	0.57
5:YC:646:ARG:HB3	5:YC:669:GLU:HG3	1.86	0.57
6:ZZ:275:ILE:HA	6:ZZ:309:MET:HA	1.86	0.57
7:b3:140:ILE:O	7:b3:141:LYS:NZ	2.37	0.57
7:b5:264:THR:O	7:b5:266:LYS:N	2.37	0.57
7:b7:264:THR:O	7:b7:266:LYS:N	2.37	0.57
7:cD:417:ILE:HD13	7:cD:417:ILE:H	1.69	0.57
8:f9:191:ASN:HB3	8:f9:275:THR:O	2.03	0.57
9:gG:184:GLU:HG2	9:gG:203:GLY:HA3	1.85	0.57
9:gH:18:ARG:NH1	9:gH:78:GLU:OE2	2.37	0.57
11:hX:114:ARG:HG2	11:hX:126:GLU:HG3	1.86	0.57
11:he:17:ARG:HG3	11:he:20:LEU:HD12	1.86	0.57
11:hm:64:ARG:HH21	11:hn:89:GLN:HG2	1.69	0.57
12:iD:98:ASP:O	12:iD:100:LYS:N	2.37	0.57
15:m5:126:LEU:HG	15:m5:127:ALA:H	1.69	0.57
16:pB:329:PHE:HE2	16:pB:339:PRO:HG3	1.68	0.57
17:q3:155:LEU:HD12	17:q5:139:THR:HG21	1.87	0.57
17:q4:177:TRP:HE1	17:q4:195:VAL:HG12	1.69	0.57
1:S5:399:PHE:CE1	1:S7:401:ARG:HB3	2.39	0.57
1:S5:480:ARG:NH1	1:S7:463:THR:O	2.38	0.57
1:S6:451:PHE:HZ	1:S6:471:THR:HG22	1.68	0.57
1:S8:89:ASN:OD1	1:S8:90:ALA:N	2.37	0.57
1:SO:449:GLY:HA2	1:SP:484:THR:HG22	1.86	0.57
1:SP:255:SER:HB3	1:SP:263:VAL:HG13	1.86	0.57
1:SQ:2:SER:N	1:SQ:5:THR:HG1	2.01	0.57
1:Sz:66:VAL:HG21	1:Sz:80:THR:HB	1.86	0.57
2:T8:43:GLY:O	2:T8:68:GLN:NE2	2.37	0.57
2:Td:14:GLU:O	2:Td:16:GLY:N	2.37	0.57
3:Uq:13:ARG:NH2	3:Uu:17:PHE:O	2.38	0.57
4:WK:213:GLY:O	4:WK:214:SER:OG	2.22	0.57
4:Wk:194:LYS:HG2	4:Wk:198:ASN:HA	1.86	0.57
4:Wl:558:ASP:O	4:Wl:560:ASP:N	2.34	0.57
4:Wo:469:PRO:HA	4:Wo:472:TYR:CZ	2.40	0.57
4:XK:266:LEU:HA	4:XK:377:HIS:O	2.03	0.57
4:Xk:86:VAL:HG22	4:Xk:87:ASN:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xk:194:LYS:NZ	4:Xk:198:ASN:OD1	2.37	0.57
4:Xk:265:LEU:HB3	4:Xk:281:TYR:HB3	1.85	0.57
5:YC:615:THR:OG1	8:eU:617:GLU:OE2	2.21	0.57
5:YX:853:ASP:OD1	5:YX:853:ASP:N	2.29	0.57
5:YY:232:PRO:HG3	5:YY:237:VAL:HG22	1.87	0.57
5:Yc:334:ALA:HB1	5:Yc:348:ARG:HB3	1.85	0.57
5:Yx:472:LYS:NZ	5:Yx:473:TYR:O	2.36	0.57
6:Za:34:LYS:O	6:Za:291:LYS:NZ	2.37	0.57
6:aa:92:ARG:NH2	6:aa:94:ASP:OD2	2.36	0.57
7:b7:228:GLY:HA2	7:b7:345:SER:HB3	1.85	0.57
7:b8:246:LYS:HB2	7:b8:250:ALA:HB2	1.86	0.57
7:b9:478:CYS:O	7:b9:555:ARG:NH1	2.36	0.57
7:bR:601:ILE:HD13	7:bR:629:ILE:HB	1.87	0.57
7:cB:486:GLN:NE2	11:hr:11:GLU:OE1	2.37	0.57
7:cE:205:MET:O	7:cE:211:GLN:NE2	2.35	0.57
7:cF:470:LEU:HD23	7:cF:525:VAL:HG21	1.86	0.57
7:cP:239:VAL:HG22	7:cP:280:ALA:HB3	1.86	0.57
7:dV:459:ASP:OD2	7:dV:462:ASN:ND2	2.30	0.57
8:fS:209:TRP:HB2	8:fS:223:ILE:HG23	1.87	0.57
8:fU:485:VAL:HG22	8:fU:624:TYR:HD1	1.68	0.57
8:fW:364:THR:OG1	8:fW:365:ASP:N	2.34	0.57
11:hp:17:ARG:HH21	11:hq:150:ILE:HG22	1.69	0.57
16:o1:260:GLU:HB3	16:o1:261:PRO:HD2	1.86	0.57
1:S3:150:ALA:HB3	1:S3:168:LEU:HD12	1.85	0.57
1:S6:291:ARG:HH12	1:S8:268:THR:HG23	1.69	0.57
1:S7:49:ASP:O	1:S7:57:ILE:N	2.34	0.57
1:SO:150:ALA:HB2	1:SO:164:LYS:HZ3	1.70	0.57
1:Sv:423:PRO:O	1:Sx:504:ARG:NE	2.30	0.57
2:T2:40:ASN:HB3	2:T2:45:GLN:HG2	1.85	0.57
3:VL:14:LEU:O	3:VL:17:PHE:N	2.19	0.57
3:Vt:120:MET:HB3	3:Vt:124:GLU:HB2	1.86	0.57
4:WI:453:ILE:HG21	4:WJ:453:ILE:HD12	1.86	0.57
4:WJ:310:GLU:HB2	4:WJ:384:THR:HB	1.85	0.57
4:Wl:54:ALA:HB3	4:Wl:74:SER:HB3	1.85	0.57
4:Wo:234:GLN:HG2	4:Wo:236:CYS:H	1.69	0.57
4:Xl:472:TYR:HA	4:XJ:416:ILE:HG23	1.85	0.57
4:Xj:180:VAL:HG22	4:Xj:181:PHE:H	1.69	0.57
4:Xj:507:ASP:OD1	4:Xj:511:ASN:N	2.34	0.57
4:Xk:115:ASP:OD2	4:Xk:137:TYR:OH	2.19	0.57
4:Xl:313:PHE:HA	4:Xl:381:ILE:HA	1.87	0.57
4:Xo:223:VAL:HB	4:Xo:224:PRO:HD3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:397:ASP:N	5:YX:397:ASP:OD1	2.36	0.57
5:Yc:546:GLU:OE1	5:Yc:547:ASN:N	2.36	0.57
5:Yx:798:ILE:HG12	5:Yx:811:VAL:HG12	1.87	0.57
5:Yy:106:ASN:ND2	5:Yy:128:THR:O	2.37	0.57
7:b3:76:ASN:O	7:b3:76:ASN:ND2	2.38	0.57
7:b3:470:LEU:HD23	7:b3:525:VAL:HG21	1.87	0.57
7:b6:246:LYS:HB2	7:b6:250:ALA:HB2	1.86	0.57
7:bN:552:ASN:OD1	7:bN:634:SER:OG	2.22	0.57
7:cA:478:CYS:O	7:cA:555:ARG:NH1	2.37	0.57
7:cB:26:THR:HA	7:cB:77:ASP:O	2.03	0.57
7:cC:2:THR:OG1	7:cC:3:LEU:N	2.38	0.57
7:cI:36:GLY:O	7:cI:82:ARG:NH1	2.37	0.57
7:cJ:526:THR:OG1	7:cJ:527:GLY:N	2.35	0.57
7:cM:487:THR:HG21	7:cM:559:MET:HE3	1.86	0.57
7:cN:116:ILE:HD13	7:cN:171:ILE:HG12	1.86	0.57
7:cN:202:GLU:OE1	7:cN:203:ALA:N	2.38	0.57
8:fS:150:ASP:OD1	8:fS:150:ASP:N	2.36	0.57
9:gH:436:ASP:OD1	9:gH:437:ASN:N	2.36	0.57
11:hK:14:ASP:OD1	11:hK:17:ARG:NH2	2.37	0.57
11:hr:70:THR:HG22	11:hr:156:THR:HG22	1.85	0.57
12:iC:324:ILE:HD12	12:iC:357:MET:HE1	1.87	0.57
12:iD:125:PHE:HE2	12:iD:134:GLU:HG3	1.69	0.57
14:lV:129:ASN:OD1	14:lV:129:ASN:N	2.36	0.57
16:o0:54:VAL:HG23	16:o0:55:THR:HG23	1.85	0.57
17:q8:185:VAL:HG12	17:q9:247:VAL:HG11	1.86	0.57
1:S6:99:ARG:O	1:S6:115:SER:N	2.33	0.57
1:S6:481:SER:OG	1:S8:449:GLY:O	2.22	0.57
1:SQ:497:ASN:H	1:SQ:500:TYR:HB2	1.69	0.57
1:Sw:199:VAL:HG21	1:Sw:214:THR:HB	1.85	0.57
3:UN:73:ASN:HD21	3:UN:76:GLY:H	1.53	0.57
3:Up:65:LYS:O	3:Up:217:ARG:NH1	2.36	0.57
3:Uq:129:VAL:O	3:Uq:133:LEU:HG	2.04	0.57
3:Ur:107:VAL:HG22	3:Ur:174:TYR:HD2	1.70	0.57
4:WI:86:VAL:HG22	4:WI:87:ASN:H	1.69	0.57
4:WK:223:VAL:HB	4:WK:224:PRO:HD3	1.86	0.57
4:WK:503:ASN:HA	4:WK:512:PRO:HB3	1.87	0.57
4:Wj:49:TRP:CD1	4:Wj:67:SER:HG	2.22	0.57
4:Wn:313:PHE:CD2	4:Wn:320:LEU:HD21	2.39	0.57
4:Wo:323:THR:HB	4:Wo:355:ASP:HB3	1.86	0.57
4:Xl:215:PRO:HG3	4:Xl:226:ASP:HB2	1.86	0.57
4:Xl:390:LEU:HD23	4:Xl:393:LEU:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:502:ASN:ND2	4:XJ:516:ALA:O	2.36	0.57
4:Xn:117:ILE:HA	4:Xn:143:TRP:HB2	1.85	0.57
5:YC:506:MET:HE3	6:Zb:176:ALA:HB2	1.86	0.57
5:YY:52:ASN:OD1	5:YY:53:GLN:NE2	2.38	0.57
5:YY:106:ASN:ND2	5:YY:130:ASN:OD1	2.37	0.57
5:YY:724:ALA:C	5:YY:726:PHE:H	2.13	0.57
5:Yc:711:ARG:HH12	5:Yc:881:ARG:HG2	1.68	0.57
6:ac:136:VAL:HG23	6:ac:150:LYS:HD2	1.85	0.57
6:ac:311:TYR:OH	6:ac:313:GLU:OE1	2.17	0.57
7:b4:140:ILE:O	7:b4:141:LYS:NZ	2.32	0.57
7:b4:239:VAL:HG22	7:b4:280:ALA:HB3	1.87	0.57
7:b6:417:ILE:HD13	7:b6:417:ILE:H	1.70	0.57
7:b6:571:ARG:NH2	7:b6:587:GLU:OE1	2.37	0.57
7:b8:365:ARG:HA	7:b8:400:ARG:HH21	1.69	0.57
7:b8:444:SER:HG	7:b8:543:SER:HG	1.53	0.57
7:bN:642:PHE:HE1	7:dS:564:ILE:HD11	1.68	0.57
7:bO:202:GLU:OE1	7:bO:203:ALA:N	2.37	0.57
7:bY:33:PHE:HA	7:bY:61:THR:HG23	1.87	0.57
7:bY:303:ASP:OD2	7:bY:307:SER:OG	2.17	0.57
7:cE:202:GLU:OE1	7:cE:203:ALA:N	2.33	0.57
7:cI:454:TYR:HB3	7:cI:467:TRP:HD1	1.68	0.57
7:cK:107:GLY:HA3	7:cK:110:TYR:HE2	1.70	0.57
7:cN:26:THR:HA	7:cN:77:ASP:O	2.05	0.57
7:cP:511:GLN:OE1	7:cP:514:ARG:NH2	2.37	0.57
7:dV:22:ASN:OD1	7:dV:22:ASN:N	2.37	0.57
8:eB:362:THR:HG22	8:eB:374:ILE:HG23	1.87	0.57
8:fS:103:LYS:HD2	8:fS:319:PRO:HD3	1.87	0.57
8:fS:202:ASP:OD1	8:fS:267:THR:N	2.38	0.57
8:fW:522:LYS:NZ	8:fW:532:GLU:O	2.34	0.57
8:fr:113:THR:O	8:fr:113:THR:OG1	2.21	0.57
9:gE:378:GLU:OE2	9:gE:421:TYR:OH	2.16	0.57
10:gd:31:THR:HG22	10:gd:36:VAL:HG22	1.86	0.57
11:hi:55:ASN:OD1	11:hu:19:ASN:ND2	2.38	0.57
11:hv:54:MET:HE3	11:hx:20:LEU:HA	1.86	0.57
16:o0:267:ALA:HA	16:pA:181:ILE:HG12	1.87	0.57
16:o6:314:CYS:HA	16:o6:350:GLU:HA	1.85	0.57
17:q8:216:PHE:HB2	17:q8:218:MET:HG3	1.85	0.57
1:S1:486:ASP:HB2	1:S2:444:TYR:HB2	1.87	0.57
1:S5:347:MET:HE3	1:S7:347:MET:HB3	1.85	0.57
1:S6:162:PRO:O	1:S6:166:GLN:N	2.32	0.57
1:S6:295:ILE:HG13	1:S8:301:ARG:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:401:ARG:HB3	1:Sy:399:PHE:HE1	1.70	0.57
1:SP:130:GLU:HG2	1:SQ:139:ASN:HD21	1.70	0.57
1:Sw:399:PHE:HE1	1:Sy:401:ARG:HB3	1.70	0.57
1:Sx:335:ASN:HB3	1:Sz:329:ASN:HD21	1.69	0.57
2:T1:31:ILE:HD13	2:T2:31:ILE:HD11	1.86	0.57
2:T4:4:GLN:NE2	2:T8:61:ILE:O	2.28	0.57
2:Te:63:ALA:HB3	2:Tg:83:THR:HA	1.87	0.57
3:Us:86:ASP:OD2	3:Us:180:GLN:NE2	2.36	0.57
4:WK:276:LEU:H	4:WK:280:ILE:HG22	1.69	0.57
4:Wk:199:GLU:HA	4:Wm:196:ARG:HH21	1.70	0.57
4:Wl:237:ASN:OD1	4:Wl:238:ILE:N	2.37	0.57
4:Wm:469:PRO:HA	4:Wm:472:TYR:CZ	2.39	0.57
4:Xk:312:ARG:O	4:Xk:382:ASN:ND2	2.38	0.57
4:Xl:327:PRO:HG3	4:Xn:264:ARG:HD3	1.87	0.57
5:YX:240:GLN:HB3	5:YX:245:THR:HA	1.87	0.57
5:YX:575:PHE:HB2	5:YX:608:VAL:HG22	1.85	0.57
5:YY:15:LYS:HA	5:YY:625:ASN:HB3	1.86	0.57
5:YY:642:ASP:OD1	5:YY:687:ARG:NH1	2.38	0.57
5:YY:934:ALA:H	5:YY:997:SER:HB2	1.70	0.57
5:Yc:4:LYS:HA	5:Yc:90:GLU:HB3	1.86	0.57
5:Yy:15:LYS:HB3	5:Yy:22:GLN:HB3	1.87	0.57
7:b4:412:GLU:OE1	7:b4:412:GLU:N	2.36	0.57
7:b4:571:ARG:NH2	7:b4:587:GLU:OE1	2.38	0.57
7:b5:108:SER:OG	7:b5:109:ASN:OD1	2.20	0.57
7:bN:571:ARG:NH2	7:bN:587:GLU:OE1	2.37	0.57
7:cB:514:ARG:NH1	7:cK:366:GLU:OE2	2.38	0.57
7:cC:228:GLY:HA2	7:cC:345:SER:HB3	1.86	0.57
7:cG:495:ASN:OD1	7:cG:495:ASN:N	2.38	0.57
7:cO:470:LEU:HD23	7:cO:525:VAL:HG21	1.87	0.57
7:cP:240:SER:OG	7:cP:243:ASP:OD1	2.21	0.57
8:eB:428:LYS:O	8:eB:474:SER:HB3	2.04	0.57
8:f9:593:GLY:HA3	8:f9:604:TRP:HA	1.85	0.57
8:fW:199:LEU:HD23	8:fW:224:TYR:CG	2.40	0.57
11:h2:55:ASN:OD1	11:hX:19:ASN:ND2	2.38	0.57
11:hl:48:LYS:HG3	11:hl:59:ASN:HB3	1.86	0.57
14:k7:42:GLY:HA3	16:o0:276:LYS:HE2	1.87	0.57
17:q5:36:SER:OG	17:q5:37:LEU:N	2.36	0.57
1:S2:40:SER:HB3	1:S3:24:ASN:HB2	1.86	0.57
1:S2:100:TYR:OH	1:S3:113:GLU:O	2.22	0.57
1:S8:110:VAL:HG12	1:S8:111:ASN:H	1.70	0.57
1:SA:39:ILE:HD13	1:Sw:39:ILE:HD13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SO:295:ILE:HG13	1:SP:301:ARG:HB3	1.86	0.57
1:SP:162:PRO:O	1:SP:166:GLN:N	2.37	0.57
1:Sx:134:SER:HB3	1:Sx:142:ILE:HD11	1.86	0.57
1:Sx:265:LEU:HD21	1:Sz:263:VAL:HG11	1.87	0.57
1:Sx:422:LYS:NZ	1:Sz:498:SER:O	2.38	0.57
1:Sz:49:ASP:O	1:Sz:56:GLY:HA3	2.04	0.57
2:T6:14:GLU:HA	2:T6:17:ASN:HD21	1.69	0.57
2:T6:53:GLY:HA3	2:T8:7:LYS:HE2	1.86	0.57
2:Tf:242:ASN:ND2	2:Tf:244:THR:O	2.38	0.57
2:Tg:50:VAL:O	2:Tg:52:ASN:N	2.38	0.57
3:Uq:60:HIS:NE2	3:Uu:28:ASP:OD2	2.38	0.57
3:Us:160:TYR:OH	3:Us:180:GLN:NE2	2.37	0.57
3:Vq:141:THR:HG22	3:Vu:43:LEU:HD11	1.86	0.57
3:Vs:196:LEU:N	3:Vs:214:HIS:O	2.37	0.57
4:WK:323:THR:HG23	4:WK:359:GLU:HB2	1.86	0.57
4:Wj:180:VAL:HG22	4:Wj:181:PHE:H	1.69	0.57
4:Wk:102:TRP:CZ3	4:Wk:131:SER:HB2	2.39	0.57
4:Wm:3:GLN:OE1	4:Wm:25:LYS:NZ	2.37	0.57
4:XI:60:LEU:HD21	4:XI:79:ILE:HG22	1.86	0.57
4:XI:279:SER:HB2	4:XK:326:MET:HE3	1.85	0.57
4:XJ:92:VAL:HG12	4:XJ:136:VAL:HG12	1.87	0.57
4:Xj:38:GLY:HA2	4:Xj:43:PRO:HA	1.85	0.57
4:Xk:491:ASN:OD1	4:Xo:483:GLN:NE2	2.38	0.57
4:Xn:102:TRP:HZ3	4:Xn:131:SER:HB2	1.69	0.57
5:Yc:53:GLN:N	5:Yc:53:GLN:OE1	2.38	0.57
5:Yc:746:PHE:O	5:Yc:750:VAL:HG13	2.05	0.57
5:Yx:81:ARG:HG2	5:Yx:94:TRP:HE3	1.70	0.57
6:aE:43:ARG:O	6:aE:270:ARG:HG2	2.05	0.57
7:b0:19:VAL:HG21	7:b9:655:THR:HB	1.86	0.57
7:bQ:202:GLU:OE1	7:bQ:203:ALA:N	2.37	0.57
7:cF:488:TRP:O	7:cF:552:ASN:ND2	2.38	0.57
7:cH:446:THR:OG1	7:cH:554:ARG:NH2	2.36	0.57
7:cI:549:ASP:OD2	7:cJ:271:TYR:OH	2.18	0.57
7:cO:510:ARG:HG2	7:cO:511:GLN:H	1.70	0.57
7:dS:90:LYS:NZ	7:dS:190:ASP:OD1	2.36	0.57
8:eU:109:GLU:OE1	8:eU:166:LYS:NZ	2.37	0.57
8:eU:229:THR:OG1	8:eU:231:ASP:OD1	2.22	0.57
8:f9:209:TRP:HB2	8:f9:223:ILE:CG2	2.34	0.57
8:fS:86:ARG:NH2	8:fS:320:GLU:O	2.37	0.57
8:fU:169:GLN:NE2	8:fU:276:ASN:H	2.03	0.57
9:gG:73:VAL:HG21	9:gH:129:THR:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gH:25:GLY:HA3	9:gH:73:VAL:HG12	1.87	0.57
11:hh:23:VAL:HG11	11:hh:39:THR:HG21	1.85	0.57
14:k8:74:LEU:HD21	14:k8:82:PRO:HB3	1.86	0.57
17:q7:254:ASP:OD1	17:q7:254:ASP:N	2.38	0.57
1:S0:177:ALA:HB3	1:S0:178:PRO:HD3	1.85	0.57
1:S1:401:ARG:NH1	1:S1:438:GLN:OE1	2.38	0.57
1:S1:403:SER:OG	1:S3:520:ASN:OD1	2.23	0.57
1:S3:236:VAL:HG21	1:S3:249:THR:HB	1.87	0.57
1:S6:357:ASP:O	1:S6:360:ARG:NH1	2.38	0.57
1:SO:422:LYS:NZ	1:SP:498:SER:O	2.37	0.57
1:Sx:415:ASN:O	1:Sx:424:ARG:NH1	2.38	0.57
2:T4:7:LYS:HE2	2:T8:53:GLY:HA3	1.87	0.57
2:T4:31:ILE:HD13	2:T6:31:ILE:HD11	1.85	0.57
2:Th:124:ILE:HD12	2:Th:137:LEU:HD23	1.86	0.57
3:UL:144:ASN:OD1	3:UN:32:ARG:NH1	2.37	0.57
3:Uq:106:THR:HG21	4:Wk:269:LYS:HG3	1.86	0.57
4:WJ:263:ILE:HG22	4:WJ:381:ILE:HB	1.85	0.57
4:Wj:95:ALA:HB3	4:Wj:133:LEU:HB2	1.85	0.57
4:Wn:115:ASP:OD2	4:Wn:137:TYR:OH	2.17	0.57
4:Wn:289:LYS:HE2	4:Wn:370:HIS:HE1	1.69	0.57
4:XK:86:VAL:HG22	4:XK:87:ASN:H	1.70	0.57
4:Xj:553:GLY:HA2	4:Xl:552:VAL:HB	1.87	0.57
4:Xo:469:PRO:HA	4:Xo:472:TYR:CZ	2.40	0.57
5:Yc:965:LEU:HD11	5:Yc:982:LEU:HD21	1.86	0.57
5:Yx:600:PHE:HZ	5:Yx:608:VAL:HB	1.70	0.57
6:ZD:115:ASN:HA	6:ZD:121:ALA:HA	1.85	0.57
6:ZE:89:VAL:HB	6:ZE:207:TYR:HB3	1.87	0.57
6:Za:138:ASP:OD1	6:Za:138:ASP:N	2.36	0.57
6:aZ:44:SER:O	6:aZ:270:ARG:NH1	2.38	0.57
6:ac:170:PRO:HB3	6:ac:188:TRP:CD1	2.39	0.57
7:b0:28:ALA:HB2	7:b0:370:VAL:HG21	1.87	0.57
7:b6:375:ALA:HB3	7:b6:407:CYS:HA	1.87	0.57
7:cF:40:GLN:H	7:cF:81:VAL:HG23	1.69	0.57
7:cG:406:LEU:HD13	7:cG:475:ALA:HB2	1.86	0.57
7:cG:645:THR:OG1	7:cH:629:ILE:O	2.23	0.57
7:cK:2:THR:OG1	7:cK:3:LEU:N	2.33	0.57
7:cK:119:LYS:NZ	7:cK:124:ASP:OD1	2.37	0.57
7:cK:639:THR:HB	7:cP:624:VAL:HG12	1.85	0.57
7:dT:400:ARG:NH1	7:dT:402:ASP:OD1	2.37	0.57
8:fA:253:THR:OG1	8:fA:254:ALA:N	2.36	0.57
8:fS:511:GLU:HG3	8:fS:539:ARG:HH21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fW:208:ASN:HB3	8:fW:224:TYR:CZ	2.39	0.57
9:gE:277:LEU:HD21	9:gE:299:MET:HE1	1.87	0.57
11:hL:39:THR:HG22	11:hL:71:VAL:HG22	1.85	0.57
14:k7:6:PHE:CE1	14:k7:192:TYR:HB2	2.40	0.57
15:nT:8:TYR:HE1	16:pA:110:LEU:HD11	1.68	0.57
15:nT:94:ASN:HB3	15:nT:107:GLU:HG3	1.86	0.57
17:q4:218:MET:HG2	17:q4:245:TYR:HB3	1.87	0.57
17:q8:224:SER:HA	17:q9:132:GLU:HB3	1.85	0.57
1:S0:225:LYS:HG3	1:S7:229:LYS:HE3	1.86	0.57
1:S1:229:LYS:HG3	1:S1:243:VAL:HG12	1.87	0.57
1:S3:229:LYS:HG3	1:S3:243:VAL:HG12	1.86	0.57
1:S4:335:ASN:H	1:S6:329:ASN:HD21	1.52	0.57
1:S5:212:PRO:HB3	1:S7:199:VAL:HA	1.86	0.57
1:S8:220:SER:OG	1:S8:226:GLY:O	2.21	0.57
1:SA:265:LEU:HB3	1:SA:282:ALA:HB2	1.86	0.57
1:SA:481:SER:OG	1:Sw:449:GLY:O	2.20	0.57
1:SO:29:ILE:HG22	1:SO:30:THR:H	1.69	0.57
1:SP:341:ILE:HG13	1:SQ:341:ILE:HD11	1.85	0.57
1:SQ:58:LEU:HD11	1:SQ:75:ALA:HB2	1.86	0.57
1:Sw:41:PRO:O	1:Sw:45:ASN:ND2	2.37	0.57
2:T6:50:VAL:C	2:T6:52:ASN:H	2.12	0.57
3:Uq:148:ASP:OD1	3:Uq:148:ASP:N	2.38	0.57
3:Us:28:ASP:OD2	3:Uu:60:HIS:NE2	2.37	0.57
3:VL:56:ILE:HG21	3:VN:55:ALA:HB1	1.87	0.57
3:VL:65:LYS:O	3:VL:217:ARG:NH1	2.37	0.57
3:Vs:7:LYS:HB3	4:Xo:318:GLN:HE21	1.69	0.57
4:Wl:293:PHE:HD2	4:Wl:298:LEU:HD11	1.68	0.57
4:Wn:222:LEU:HG	4:Wn:224:PRO:HD2	1.87	0.57
4:XK:340:VAL:HG23	4:XK:341:GLU:HG3	1.86	0.57
4:Xj:195:HIS:NE2	4:Xj:236:CYS:SG	2.68	0.57
4:Xk:117:ILE:HD12	4:Xk:118:LYS:H	1.70	0.57
4:Xm:150:GLN:O	4:Xm:152:ASP:N	2.37	0.57
4:Xn:265:LEU:HG	4:Xn:379:ASP:HB2	1.87	0.57
5:YC:232:PRO:HG3	5:YC:237:VAL:HG22	1.87	0.57
5:YC:657:TYR:HD2	8:eB:52:ARG:HD3	1.70	0.57
5:YY:378:LEU:HB3	5:YY:403:ILE:HB	1.85	0.57
5:Yc:625:ASN:ND2	5:Yc:627:GLU:OE2	2.30	0.57
5:Yx:53:GLN:N	5:Yx:53:GLN:OE1	2.37	0.57
5:Yy:105:THR:OG1	5:Yy:626:GLN:NE2	2.29	0.57
6:ZD:228:ASN:OD1	6:ZD:229:LEU:N	2.37	0.57
6:ZZ:92:ARG:NH1	6:ZZ:204:THR:O	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ab:47:TRP:N	6:ab:51:GLU:OE1	2.36	0.57
7:b0:91:ASN:N	7:b0:91:ASN:OD1	2.38	0.57
7:b0:430:ARG:NH2	7:b0:443:ILE:O	2.35	0.57
7:b3:26:THR:HA	7:b3:77:ASP:O	2.04	0.57
7:b9:423:VAL:HG21	7:b9:513:GLN:HB3	1.85	0.57
7:bR:368:VAL:O	7:bR:400:ARG:NH2	2.37	0.57
7:cB:455:LYS:HD2	7:cB:502:VAL:HG22	1.86	0.57
7:cG:417:ILE:H	7:cG:417:ILE:HD13	1.70	0.57
7:cI:76:ASN:O	7:cI:76:ASN:ND2	2.35	0.57
7:dT:29:LEU:O	7:dT:80:VAL:HA	2.05	0.57
7:dT:239:VAL:HG22	7:dT:280:ALA:HB3	1.87	0.57
8:fS:103:LYS:HG3	8:fS:191:ASN:HA	1.86	0.57
8:fW:557:PRO:HB2	8:fW:586:ARG:HG3	1.85	0.57
8:fs:94:GLN:HE22	8:fs:99:LEU:HD13	1.70	0.57
11:hg:39:THR:HG22	11:hg:71:VAL:HG22	1.87	0.57
12:iC:98:ASP:O	12:iC:100:LYS:N	2.38	0.57
17:q8:132:GLU:HG2	17:q8:134:ARG:HB2	1.86	0.57
1:S3:62:THR:HG23	1:S3:64:GLN:H	1.69	0.57
1:SO:55:LYS:HB3	1:SQ:57:ILE:HG22	1.86	0.57
1:Sw:262:VAL:HG23	1:Sy:260:ARG:HD3	1.87	0.57
1:Sw:481:SER:OG	1:Sy:449:GLY:O	2.17	0.57
1:Sz:418:ASP:OD1	1:Sz:422:LYS:N	2.36	0.57
2:T4:194:ARG:HG3	2:T4:195:THR:HG23	1.87	0.57
2:TG:50:VAL:C	2:TG:52:ASN:H	2.11	0.57
2:TH:44:ASP:HB3	2:TH:47:LYS:HE3	1.86	0.57
3:VM:4:LEU:O	4:XK:318:GLN:NE2	2.38	0.57
3:Vr:174:TYR:H	4:Xj:340:VAL:HG21	1.70	0.57
4:Wj:20:ARG:HG2	4:Wn:11:VAL:HG13	1.87	0.57
4:Wj:558:ASP:OD1	4:Wj:558:ASP:N	2.31	0.57
4:Wn:86:VAL:HG22	4:Wn:87:ASN:H	1.70	0.57
4:Xk:165:LYS:HZ1	4:Xk:182:ARG:H	1.53	0.57
4:Xl:92:VAL:HG12	4:Xl:136:VAL:HG12	1.87	0.57
4:Xl:109:LEU:HB3	4:Xl:124:VAL:HG23	1.87	0.57
4:Xm:496:ASP:HB3	4:Xm:500:ALA:HB2	1.87	0.57
4:Xo:396:LYS:HG3	4:Xo:399:ILE:HD11	1.86	0.57
5:YC:4:LYS:HA	5:YC:90:GLU:HB3	1.87	0.57
5:Yy:769:ASP:O	5:Yy:840:ARG:NH2	2.37	0.57
6:aa:282:LYS:NZ	6:aa:289:ASN:OD1	2.34	0.57
7:b7:549:ASP:OD2	7:cE:271:TYR:OH	2.13	0.57
7:b8:394:VAL:HG11	7:b8:443:ILE:HD12	1.87	0.57
7:bR:199:GLU:HB2	7:cP:467:TRP:CZ3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bR:494:TYR:O	7:bR:498:GLN:NE2	2.34	0.57
7:bR:629:ILE:O	7:cP:645:THR:OG1	2.23	0.57
7:bY:455:LYS:HB2	7:bY:470:LEU:HD13	1.86	0.57
7:bY:593:GLN:NE2	17:q7:5:GLU:OE2	2.38	0.57
7:cA:406:LEU:HD13	7:cA:475:ALA:HB2	1.87	0.57
7:cC:505:LEU:HD21	7:cC:525:VAL:HG12	1.87	0.57
7:cI:26:THR:HA	7:cI:77:ASP:O	2.04	0.57
7:cJ:505:LEU:HD21	7:cJ:525:VAL:HG12	1.87	0.57
7:cP:220:PRO:HG2	7:cP:338:LEU:HD11	1.86	0.57
7:cP:455:LYS:NZ	7:cP:457:GLN:OE1	2.38	0.57
7:dT:22:ASN:OD1	7:dT:22:ASN:N	2.37	0.57
7:dU:119:LYS:NZ	7:dU:122:SER:O	2.33	0.57
8:eB:219:SER:OG	8:eB:256:TYR:O	2.22	0.57
8:eW:400:ASN:ND2	8:eW:404:ILE:O	2.38	0.57
8:fs:30:LYS:NZ	8:fs:58:ASP:OD1	2.37	0.57
9:gE:402:GLU:OE2	9:gE:413:ARG:NH2	2.38	0.57
9:gH:3:MET:HB2	12:iF:275:ILE:HG12	1.86	0.57
11:hJ:20:LEU:HA	11:hx:54:MET:HE3	1.87	0.57
11:hi:22:GLN:OE1	11:hi:114:ARG:NH2	2.38	0.57
11:hu:82:ARG:NH1	11:hu:138:GLY:HA2	2.20	0.57
12:iC:18:ASP:HB3	16:o1:110:LEU:HD23	1.87	0.57
16:o1:206:VAL:HG22	16:o1:347:THR:HB	1.87	0.57
17:q3:201:VAL:HG13	17:q3:214:VAL:HG22	1.86	0.57
1:S0:117:THR:HG23	1:S0:120:LYS:H	1.70	0.56
1:SA:251:ASN:O	1:Sw:260:ARG:NH1	2.38	0.56
1:SO:140:GLY:HA2	1:SQ:129:PHE:HE1	1.70	0.56
1:SO:399:PHE:CE1	1:SP:401:ARG:HB3	2.39	0.56
1:SP:359:TRP:NE1	1:SQ:340:THR:O	2.30	0.56
1:Sv:132:ARG:NH1	1:Sz:126:ASN:OD1	2.38	0.56
1:Sx:262:VAL:HG23	1:Sz:260:ARG:HD3	1.87	0.56
2:T1:40:ASN:O	2:T1:68:GLN:NE2	2.38	0.56
2:T2:121:PRO:HB3	2:T2:140:THR:HG22	1.87	0.56
2:T9:44:ASP:HB3	2:T9:47:LYS:HE3	1.87	0.56
2:TG:194:ARG:HE	2:TG:259:ASN:HA	1.68	0.56
2:TG:232:SER:HB3	2:TG:254:PHE:HD2	1.70	0.56
3:UN:113:PRO:HB2	4:WK:269:LYS:HD2	1.86	0.56
3:Up:58:ASP:OD1	3:Ur:164:GLN:NE2	2.37	0.56
3:Ut:7:LYS:HB3	4:Wj:318:GLN:HE22	1.69	0.56
3:Uu:84:GLN:HB2	3:Uu:186:SER:HB3	1.87	0.56
4:WI:293:PHE:CE1	4:WI:366:PRO:HB2	2.40	0.56
4:Wk:18:TYR:HA	5:YY:1000:THR:HA	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:491:ASN:HD21	4:Wk:493:ASP:HB3	1.70	0.56
4:XK:405:ASN:OD1	4:XK:405:ASN:N	2.38	0.56
4:Xk:110:VAL:HG22	4:Xk:123:PRO:HB3	1.86	0.56
5:YC:307:ILE:HD13	5:YC:323:ARG:HH12	1.70	0.56
5:YC:714:TYR:HE1	5:YC:753:ASN:H	1.53	0.56
5:YC:724:ALA:C	5:YC:726:PHE:H	2.13	0.56
5:YX:555:ARG:O	5:YX:557:VAL:N	2.37	0.56
5:YY:769:ASP:HB2	5:YY:812:THR:HA	1.86	0.56
5:Yc:613:LYS:HG3	8:eB:619:GLN:HB2	1.86	0.56
5:Yc:909:THR:OG1	5:Yc:910:GLU:OE1	2.23	0.56
5:Yx:555:ARG:O	5:Yx:557:VAL:N	2.37	0.56
7:b5:220:PRO:HG2	7:b5:338:LEU:HD11	1.85	0.56
7:b9:571:ARG:NH2	7:b9:587:GLU:OE1	2.38	0.56
7:bN:624:VAL:HG12	7:cL:639:THR:HB	1.86	0.56
7:cJ:256:PRO:HG2	7:cJ:339:THR:H	1.69	0.56
7:cJ:411:ARG:HG3	7:cJ:415:VAL:HG21	1.86	0.56
7:dU:490:SER:O	7:dU:496:ARG:NH1	2.37	0.56
7:dU:494:TYR:HA	7:dU:534:VAL:HG11	1.86	0.56
7:dW:101:TYR:OH	7:dW:216:LYS:O	2.23	0.56
7:dZ:22:ASN:OD1	7:dZ:22:ASN:N	2.37	0.56
7:dZ:455:LYS:HD2	7:dZ:502:VAL:HG22	1.87	0.56
8:eU:524:VAL:HA	8:eU:530:LEU:H	1.70	0.56
11:h2:58:ILE:HD11	11:hM:6:VAL:HG21	1.87	0.56
11:hM:3:VAL:HG12	11:hx:97:ASN:HA	1.87	0.56
11:hM:69:TRP:HB2	11:hM:159:LEU:HD23	1.87	0.56
14:IV:45:LEU:HD13	14:IV:170:LYS:HD3	1.87	0.56
14:IV:124:ILE:HB	14:IV:136:LYS:HB3	1.85	0.56
16:pB:206:VAL:HG22	16:pB:347:THR:HB	1.86	0.56
17:q3:185:VAL:HG23	17:q3:186:THR:HG23	1.87	0.56
1:S0:61:PRO:HB3	1:S0:74:LYS:HD3	1.86	0.56
1:S0:517:ILE:HG21	1:S5:395:MET:HG2	1.87	0.56
1:S7:47:VAL:H	1:S7:48:PRO:HD2	1.70	0.56
1:SA:101:SER:O	1:SA:120:LYS:NZ	2.36	0.56
1:SO:162:PRO:HA	1:SP:160:MET:HE3	1.87	0.56
2:Td:53:GLY:HA2	2:Td:59:GLN:H	1.70	0.56
3:VM:70:ILE:HD11	3:VN:74:LYS:HG3	1.87	0.56
3:VN:126:VAL:HG13	3:VN:156:LEU:HD11	1.86	0.56
4:WK:558:ASP:OD1	4:WK:558:ASP:N	2.37	0.56
4:Xo:23:GLY:HA2	4:Xo:26:ILE:HG22	1.87	0.56
5:YC:934:ALA:H	5:YC:997:SER:HB2	1.70	0.56
5:Yc:323:ARG:NE	5:Yc:387:ASN:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:255:TYR:HB3	5:Yx:297:TYR:HB2	1.85	0.56
5:Yx:744:TYR:OH	5:Yx:884:HIS:ND1	2.30	0.56
6:aD:58:PRO:HB2	6:aD:314:ASN:HB3	1.86	0.56
6:ac:274:ILE:HB	6:ac:311:TYR:HB3	1.85	0.56
7:b8:206:THR:HA	7:b8:211:GLN:HE21	1.71	0.56
7:cB:90:LYS:NZ	7:cB:190:ASP:OD2	2.38	0.56
7:cH:617:VAL:HG22	7:cH:622:GLU:HB2	1.87	0.56
7:cN:560:LEU:HD21	7:cN:601:ILE:HD11	1.85	0.56
7:dU:488:TRP:O	7:dU:552:ASN:ND2	2.38	0.56
7:dV:505:LEU:HD21	7:dV:525:VAL:HG12	1.87	0.56
8:fW:544:ASP:HB2	8:fW:576:ASP:HB2	1.87	0.56
8:fr:440:ILE:HD11	8:fr:653:ILE:HG21	1.87	0.56
9:gG:136:GLY:O	9:gG:138:VAL:N	2.37	0.56
9:gG:404:ASP:HB3	9:gG:411:ARG:HG2	1.86	0.56
9:gH:280:MET:HE1	9:gH:295:MET:HE1	1.87	0.56
11:hJ:124:THR:HB	11:hK:78:ALA:HA	1.86	0.56
11:hw:82:ARG:HH12	11:hw:138:GLY:HA2	1.71	0.56
12:iD:95:VAL:HG22	12:iD:105:ILE:HB	1.87	0.56
17:q3:167:GLU:O	17:q3:169:CYS:N	2.38	0.56
17:q7:199:ILE:HG12	17:q7:218:MET:HE1	1.87	0.56
1:S2:2:SER:N	4:XK:239:GLY:O	2.38	0.56
1:S3:418:ASP:OD1	1:S3:422:LYS:N	2.39	0.56
1:SO:141:VAL:HG22	1:SP:139:ASN:HB2	1.87	0.56
1:Sv:463:THR:HG21	1:Sx:490:ILE:HD12	1.87	0.56
1:Sv:504:ARG:NH1	1:Sx:510:ASN:O	2.37	0.56
1:Sw:162:PRO:HA	1:Sy:160:MET:HE3	1.86	0.56
1:Sw:212:PRO:HG3	1:Sy:199:VAL:HG12	1.86	0.56
1:Sw:220:SER:OG	1:Sw:226:GLY:O	2.23	0.56
2:T7:63:ALA:HB3	2:T9:83:THR:HA	1.88	0.56
2:T7:192:PHE:HD2	2:T7:196:GLU:HB2	1.70	0.56
2:T9:100:ARG:NH1	2:T9:155:ASN:O	2.39	0.56
2:TF:7:LYS:HE3	2:TH:53:GLY:HA3	1.86	0.56
2:TH:194:ARG:HH21	2:TH:259:ASN:HA	1.71	0.56
2:Tg:199:MET:HG2	2:Tg:282:GLN:HB3	1.87	0.56
3:UN:84:GLN:HB2	3:UN:186:SER:HB3	1.87	0.56
3:VN:66:ASP:O	3:VN:69:THR:OG1	2.21	0.56
3:Vt:100:PRO:O	3:Vt:103:SER:OG	2.18	0.56
4:WI:200:LEU:HD11	4:WJ:241:THR:HG21	1.87	0.56
4:WK:109:LEU:HB3	4:WK:124:VAL:HG23	1.88	0.56
4:Wj:556:GLN:HE22	4:Wn:555:CYS:HB3	1.69	0.56
4:Wn:362:GLU:HB2	4:Wn:366:PRO:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wo:170:GLU:HA	4:Wo:238:ILE:HG13	1.88	0.56
4:Wo:266:LEU:HA	4:Wo:377:HIS:O	2.05	0.56
4:XI:147:LYS:N	4:XJ:152:ASP:OD1	2.33	0.56
4:XI:594:THR:OG1	4:XJ:518:GLY:N	2.37	0.56
4:XK:469:PRO:HA	4:XK:472:TYR:CZ	2.40	0.56
4:Xj:506:LEU:HB3	4:Xj:510:GLY:HA2	1.87	0.56
4:Xk:323:THR:HB	4:Xk:355:ASP:HB3	1.87	0.56
4:XI:86:VAL:HG22	4:XI:87:ASN:H	1.69	0.56
4:Xm:264:ARG:O	4:Xm:280:ILE:HA	2.05	0.56
4:Xn:79:ILE:HG13	4:Xn:109:LEU:HA	1.85	0.56
4:Xn:222:LEU:HG	4:Xn:224:PRO:HD2	1.87	0.56
5:YC:46:GLY:HA3	5:YC:49:LEU:HB2	1.88	0.56
5:YC:326:VAL:HG22	5:YC:355:MET:HB3	1.87	0.56
5:YC:676:SER:HB3	5:YC:683:TYR:HB3	1.86	0.56
5:YC:696:ARG:HA	5:YC:725:ARG:HD3	1.87	0.56
5:YX:404:TYR:HA	5:YX:415:ARG:HA	1.86	0.56
5:YX:929:TYR:HD2	5:YX:961:VAL:HB	1.71	0.56
5:Yc:181:GLN:HE21	5:Yc:219:TRP:CD1	2.23	0.56
5:Yc:911:THR:HG22	6:aD:330:ILE:HG12	1.87	0.56
5:Yx:38:ILE:HD12	5:Yx:57:ILE:HB	1.87	0.56
5:Yx:991:SER:O	5:Yx:993:LEU:N	2.37	0.56
5:Yy:908:HIS:NE2	5:Yy:911:THR:OG1	2.38	0.56
6:aD:46:PRO:HG3	6:aD:267:LYS:HD2	1.87	0.56
6:aZ:60:TYR:HB2	6:ab:9:ARG:HH11	1.70	0.56
6:aZ:95:TRP:H	6:aZ:120:ASN:HD21	1.52	0.56
6:ab:269:PHE:HE2	6:ab:272:ILE:HD11	1.70	0.56
7:b3:538:ASP:N	7:b3:538:ASP:OD1	2.37	0.56
7:b4:121:VAL:HG22	7:b4:166:ASN:HB3	1.87	0.56
7:b5:455:LYS:NZ	7:b5:457:GLN:OE1	2.26	0.56
7:b6:110:TYR:H	7:b6:138:GLY:HA3	1.69	0.56
7:b7:97:GLY:O	7:b7:147:THR:OG1	2.19	0.56
7:b9:40:GLN:H	7:b9:81:VAL:HG23	1.71	0.56
7:b9:487:THR:HG21	7:b9:559:MET:HE3	1.87	0.56
7:bN:199:GLU:HB2	7:cL:467:TRP:HZ3	1.70	0.56
7:bO:135:ASP:HB3	7:bO:139:LYS:HB2	1.86	0.56
7:bP:120:TYR:HE2	7:bP:157:VAL:HG11	1.69	0.56
7:bQ:33:PHE:HA	7:bQ:61:THR:HG23	1.87	0.56
7:cA:455:LYS:HG3	7:cA:502:VAL:HG13	1.88	0.56
7:cA:485:SER:OG	7:cA:486:GLN:N	2.38	0.56
7:cC:406:LEU:HD13	7:cC:475:ALA:HB2	1.87	0.56
7:cC:549:ASP:OD2	7:cD:271:TYR:OH	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cC:655:THR:HB	7:cD:19:VAL:HG21	1.88	0.56
7:cD:488:TRP:HB3	7:cD:556:LEU:HD13	1.87	0.56
7:cD:639:THR:HB	7:cM:624:VAL:HG12	1.86	0.56
7:cG:511:GLN:OE1	7:cG:514:ARG:NH2	2.38	0.56
7:cL:135:ASP:OD1	7:cL:136:ALA:N	2.38	0.56
7:cN:57:PRO:HB3	7:cN:62:ALA:HA	1.86	0.56
7:cN:332:GLU:N	7:cN:332:GLU:OE1	2.35	0.56
7:cN:423:VAL:HG13	7:cN:517:LEU:HD13	1.87	0.56
7:cN:455:LYS:HG3	7:cN:502:VAL:HG13	1.87	0.56
7:dS:560:LEU:O	7:dS:564:ILE:HG12	2.05	0.56
7:dU:487:THR:HG21	7:dU:559:MET:HE3	1.87	0.56
7:dZ:612:ASN:HD21	7:dZ:626:THR:HG23	1.70	0.56
8:eB:213:SER:HB2	8:eB:215:VAL:HG12	1.87	0.56
8:eW:546:ASP:OD1	8:eW:547:SER:N	2.37	0.56
8:fA:211:ARG:O	8:fA:399:TYR:OH	2.16	0.56
8:fB:120:ARG:O	8:fB:161:TYR:OH	2.18	0.56
8:fB:127:ARG:NH1	8:fB:271:GLU:OE1	2.38	0.56
8:fB:281:ASN:HD21	8:fB:315:GLY:H	1.53	0.56
8:fW:428:LYS:O	8:fW:474:SER:HB3	2.05	0.56
8:fW:522:LYS:HE3	8:fW:530:LEU:HD22	1.87	0.56
9:gH:221:LEU:HD11	9:gH:236:ILE:HD11	1.87	0.56
11:hg:93:ALA:O	11:hg:100:THR:OG1	2.21	0.56
11:hq:58:ILE:HD12	11:hz:6:VAL:HG21	1.86	0.56
11:hu:23:VAL:HG11	11:hu:39:THR:HG21	1.88	0.56
12:iC:41:ARG:HG3	13:ja:576:THR:HG21	1.86	0.56
12:iD:118:LEU:HD23	12:iD:139:ILE:HD13	1.87	0.56
12:iD:199:ASP:HB3	12:iD:202:MET:HG2	1.88	0.56
17:q9:254:ASP:OD1	17:q9:254:ASP:N	2.38	0.56
1:S1:47:VAL:HG23	1:S1:57:ILE:HD12	1.86	0.56
1:S4:463:THR:HG21	1:S6:490:ILE:HD12	1.86	0.56
1:S5:51:SER:HB3	1:S5:54:THR:HB	1.87	0.56
1:S6:7:GLN:HB2	1:S6:15:TYR:CZ	2.40	0.56
1:S7:497:ASN:OD1	1:S7:500:TYR:N	2.38	0.56
1:SA:66:VAL:HG11	1:SA:80:THR:HB	1.86	0.56
1:Sv:55:LYS:HB3	1:Sz:57:ILE:HG22	1.86	0.56
1:Sv:111:ASN:O	1:Sv:114:SER:OG	2.22	0.56
1:Sw:126:ASN:OD1	1:Sy:132:ARG:NH1	2.38	0.56
1:Sx:190:VAL:HG12	1:Sz:190:VAL:HG12	1.86	0.56
1:Sx:451:PHE:HZ	1:Sx:471:THR:HG22	1.71	0.56
2:Te:212:ARG:HG3	2:Te:213:LYS:HG3	1.88	0.56
4:Wj:285:LEU:HD11	4:Wj:375:PHE:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wl:7:ILE:HD11	4:Wn:24:ILE:HG13	1.86	0.56
4:Wl:158:ASP:OD1	4:Wl:158:ASP:N	2.38	0.56
4:Wm:3:GLN:HG3	4:Wm:25:LYS:HG3	1.87	0.56
4:Wm:421:ASN:HD22	4:Wm:456:ILE:HD12	1.71	0.56
4:XI:289:LYS:HD2	4:XI:372:ASP:HB3	1.87	0.56
4:XJ:313:PHE:HA	4:XJ:381:ILE:HA	1.88	0.56
4:XJ:594:THR:OG1	4:XK:518:GLY:N	2.39	0.56
4:Xj:289:LYS:HD2	4:Xj:372:ASP:HB3	1.87	0.56
4:Xj:304:ILE:HD13	4:Xj:309:LEU:HG	1.88	0.56
4:Xm:454:TYR:O	4:Xm:600:ARG:NH1	2.38	0.56
4:Xm:464:VAL:HG11	4:Xo:422:LEU:HD21	1.88	0.56
5:YY:467:LEU:HD23	5:YY:470:ALA:HB2	1.86	0.56
5:YY:723:VAL:HG22	8:eW:257:ILE:HG12	1.88	0.56
5:Yc:46:GLY:HA3	5:Yc:49:LEU:HB2	1.87	0.56
5:Yy:733:ASP:OD1	5:Yy:733:ASP:N	2.36	0.56
6:ZD:34:LYS:O	6:ZD:291:LYS:NZ	2.37	0.56
6:ZD:59:PRO:O	6:ZD:314:ASN:ND2	2.29	0.56
6:ab:114:CYS:HA	6:ab:120:ASN:HD21	1.69	0.56
7:b4:455:LYS:HD3	7:b4:502:VAL:HG22	1.88	0.56
7:b6:121:VAL:HG13	7:b6:166:ASN:HA	1.87	0.56
7:b9:206:THR:HA	7:b9:211:GLN:HE21	1.70	0.56
7:bR:494:TYR:HE2	7:bR:528:THR:HG21	1.70	0.56
7:cB:159:GLU:HB3	7:cB:163:LEU:HA	1.87	0.56
7:cN:495:ASN:OD1	7:cN:495:ASN:N	2.26	0.56
7:cO:41:ILE:HD11	7:cO:361:PHE:HB3	1.87	0.56
7:dS:378:CYS:HB2	7:dS:410:PRO:HA	1.88	0.56
7:dW:560:LEU:O	7:dW:564:ILE:HG12	2.06	0.56
8:eB:45:ASP:O	8:eB:47:ASP:N	2.38	0.56
8:fB:555:ILE:HD12	8:fB:592:ILE:HD11	1.87	0.56
8:fU:155:ARG:HG2	8:fU:161:TYR:CE2	2.41	0.56
8:fr:447:TYR:HB2	8:fr:467:TYR:HD2	1.69	0.56
8:fs:176:GLU:HG3	8:fs:269:VAL:HB	1.87	0.56
8:fs:215:VAL:HG21	8:fs:252:LEU:C	2.30	0.56
11:h1:139:GLU:OE2	11:h1:141:GLN:NE2	2.38	0.56
11:hy:114:ARG:HG2	11:hy:126:GLU:HG3	1.86	0.56
15:m5:94:ASN:HB3	15:m5:107:GLU:HG3	1.87	0.56
16:o0:212:THR:HG21	17:q8:149:ARG:HB3	1.87	0.56
16:o1:61:GLY:HA2	16:o1:131:ARG:HG2	1.88	0.56
17:q3:167:GLU:HA	17:q5:211:HIS:HD2	1.69	0.56
17:q8:144:ASN:O	17:q8:145:SER:OG	2.21	0.56
1:S1:383:TYR:CG	1:S1:393:PRO:HG3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:77:THR:HG22	1:S4:80:THR:H	1.70	0.56
1:SP:40:SER:O	1:SQ:24:ASN:ND2	2.35	0.56
1:SP:73:THR:HG23	1:SP:74:LYS:HG3	1.86	0.56
1:Sv:253:ARG:HH22	1:Sz:251:ASN:HB2	1.71	0.56
1:Sv:498:SER:O	1:Sz:422:LYS:NZ	2.39	0.56
1:Sw:335:ASN:N	1:Sy:329:ASN:OD1	2.36	0.56
1:Sw:411:ASN:O	1:Sw:415:ASN:ND2	2.31	0.56
1:Sx:448:ALA:N	1:Sz:485:ASN:OD1	2.39	0.56
1:Sx:512:THR:HA	1:Sz:442:MET:HA	1.88	0.56
1:Sz:229:LYS:HG3	1:Sz:243:VAL:HG12	1.88	0.56
2:T2:85:HIS:HB2	2:T2:109:PHE:CD1	2.41	0.56
2:T3:18:ALA:HB3	2:T3:23:ILE:HG23	1.86	0.56
2:T4:199:MET:HG2	2:T4:282:GLN:HB3	1.88	0.56
2:T7:194:ARG:HG3	2:T7:195:THR:HG23	1.87	0.56
3:UL:42:GLN:HE21	3:UL:53:GLU:HB3	1.69	0.56
4:WJ:200:LEU:HD11	4:WK:241:THR:HG21	1.86	0.56
4:WK:194:LYS:O	4:WK:242:VAL:HA	2.05	0.56
4:Wj:160:SER:OG	4:Wj:248:MET:O	2.18	0.56
4:XJ:111:ALA:HB2	4:XJ:117:ILE:HG23	1.87	0.56
4:XK:181:PHE:HE2	4:XK:246:THR:HB	1.71	0.56
5:Yc:368:MET:HG3	5:Yc:377:ALA:HB2	1.88	0.56
5:Yx:653:MET:HE3	8:fU:55:VAL:HG12	1.86	0.56
5:Yy:788:THR:HG23	5:Yy:790:THR:H	1.70	0.56
6:ab:75:MET:HE3	6:ab:299:PRO:HB3	1.87	0.56
7:b0:511:GLN:OE1	7:b0:514:ARG:NH2	2.38	0.56
7:b9:239:VAL:HG22	7:b9:280:ALA:HB3	1.88	0.56
7:bN:400:ARG:NH1	7:bN:403:CYS:SG	2.78	0.56
7:cF:154:ALA:HA	7:cF:157:VAL:HG22	1.88	0.56
7:cJ:131:ILE:HD11	7:cJ:171:ILE:HD13	1.87	0.56
7:cK:202:GLU:OE1	7:cK:203:ALA:N	2.32	0.56
7:dS:237:GLU:OE1	7:dS:284:ARG:NH1	2.34	0.56
7:dZ:496:ARG:NH2	15:m2:63:GLU:OE2	2.39	0.56
8:eU:388:GLN:O	8:eU:388:GLN:NE2	2.39	0.56
8:eU:537:ASP:OD1	8:eU:537:ASP:N	2.37	0.56
8:fR:39:GLY:HA2	8:fR:44:LEU:HD23	1.86	0.56
8:fW:543:THR:OG1	8:fW:576:ASP:OD1	2.23	0.56
11:h1:69:TRP:HB2	11:h1:159:LEU:HD23	1.87	0.56
11:hK:20:LEU:HA	11:hy:54:MET:HE3	1.87	0.56
11:hL:147:ASN:ND2	11:hz:63:ASP:OD2	2.39	0.56
11:hw:41:LEU:HG	11:hw:127:ILE:HD13	1.88	0.56
12:iF:38:LEU:HD23	12:iF:346:LEU:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q5:164:MET:HE2	17:q8:17:GLN:HG2	1.86	0.56
17:q7:125:ILE:HD12	17:q7:160:ILE:HG23	1.87	0.56
1:S1:301:ARG:HD3	1:S3:295:ILE:HG12	1.88	0.56
1:S2:514:PRO:O	1:S2:516:ASN:ND2	2.39	0.56
1:S6:60:ILE:HD11	1:S6:77:THR:HB	1.87	0.56
1:S7:118:PRO:HA	1:S7:121:PHE:HB3	1.87	0.56
1:Sw:193:LEU:HB2	1:Sy:185:GLU:HA	1.88	0.56
1:Sx:102:THR:HG23	1:Sx:104:ASP:H	1.70	0.56
1:Sy:451:PHE:HZ	1:Sy:471:THR:HG22	1.71	0.56
2:T4:1:MET:HG2	2:T4:70:HIS:CE1	2.40	0.56
2:T5:248:GLU:HG3	2:T5:249:ILE:HG13	1.86	0.56
2:TG:67:TYR:CD1	2:TG:84:ARG:HB3	2.41	0.56
2:Tf:46:ARG:NH2	2:Tf:66:TYR:OH	2.39	0.56
3:Vp:165:LYS:NZ	3:Vp:185:GLU:OE1	2.39	0.56
4:WI:9:ASN:OD1	4:WI:9:ASN:N	2.38	0.56
4:WJ:266:LEU:HA	4:WJ:377:HIS:O	2.05	0.56
4:Wn:110:VAL:HG22	4:Wn:123:PRO:HB3	1.86	0.56
4:Wo:176:ASP:HB3	4:Wo:231:ARG:HG3	1.87	0.56
4:Wo:190:ASN:HD22	4:Wo:247:PHE:HB2	1.71	0.56
4:XJ:193:VAL:HG13	4:XJ:199:GLU:HB3	1.86	0.56
4:XJ:205:VAL:HG22	4:XK:104:VAL:HA	1.88	0.56
4:XJ:312:ARG:NH2	4:XJ:384:THR:OG1	2.38	0.56
4:XK:507:ASP:OD1	4:XK:511:ASN:N	2.39	0.56
4:Xk:321:ALA:HA	4:Xk:358:VAL:HB	1.88	0.56
4:Xm:36:GLU:HG3	4:Xo:43:PRO:HG2	1.87	0.56
4:Xn:451:ASP:OD1	4:Xn:600:ARG:NH2	2.34	0.56
5:YC:171:ASN:ND2	5:YC:172:GLU:O	2.37	0.56
5:YC:613:LYS:O	5:YC:615:THR:N	2.33	0.56
5:YX:415:ARG:HH12	5:YX:424:ARG:HH12	1.52	0.56
5:Yc:35:PHE:HD2	5:Yc:91:GLN:HE22	1.52	0.56
5:Yx:81:ARG:HD2	5:Yx:94:TRP:HB3	1.87	0.56
5:Yy:723:VAL:HG22	8:fW:257:ILE:HG12	1.87	0.56
6:ZD:195:PRO:HG2	6:ZD:198:VAL:HB	1.87	0.56
6:ZZ:279:LEU:H	6:ZZ:306:SER:HB3	1.68	0.56
7:bQ:550:ARG:NH1	7:bQ:636:ASN:OD1	2.39	0.56
7:cB:103:ILE:HD13	7:cB:182:ILE:HG23	1.88	0.56
7:cB:137:ASP:OD1	7:cB:137:ASP:N	2.37	0.56
7:cE:34:GLN:OE1	7:cE:58:THR:OG1	2.23	0.56
7:cG:12:GLU:HG3	7:cP:548:PHE:HE2	1.71	0.56
7:cK:40:GLN:H	7:cK:81:VAL:HG23	1.70	0.56
7:dV:156:GLU:HB2	8:eW:300:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dW:486:GLN:NE2	7:dW:489:MET:SD	2.79	0.56
8:fW:546:ASP:OD1	8:fW:547:SER:N	2.38	0.56
9:gE:214:MET:HE3	9:gE:233:PRO:HA	1.88	0.56
11:hg:54:MET:HE2	11:hl:1:MET:HE1	1.87	0.56
11:hj:97:ASN:HA	11:hs:3:VAL:HG12	1.87	0.56
11:hq:41:LEU:HG	11:hq:127:ILE:HD13	1.88	0.56
14:kV:79:ASN:ND2	14:kV:81:ASP:O	2.38	0.56
15:m2:57:LEU:HD11	15:m2:73:VAL:HG13	1.87	0.56
16:pA:270:ASN:HB3	16:pA:273:LEU:HD13	1.87	0.56
17:q4:253:VAL:HG21	17:q9:101:LEU:HD23	1.86	0.56
1:S0:173:ILE:HD13	1:S7:170:ILE:HG23	1.87	0.56
1:S1:132:ARG:NH1	1:S3:126:ASN:OD1	2.39	0.56
1:S3:11:ASN:OD1	1:S3:11:ASN:N	2.39	0.56
1:Sw:78:PRO:HB3	1:Sy:66:VAL:HA	1.88	0.56
1:Sx:359:TRP:CE2	1:Sx:524:LYS:HD3	2.41	0.56
2:T1:66:TYR:OH	2:T1:69:LYS:NZ	2.38	0.56
2:T6:40:ASN:OD1	2:T6:59:GLN:NE2	2.32	0.56
2:T9:201:LYS:NZ	2:T9:220:ASN:OD1	2.38	0.56
3:Vs:172:SER:HA	3:Vs:177:THR:HA	1.88	0.56
4:WI:469:PRO:HA	4:WI:472:TYR:CZ	2.39	0.56
4:Wl:360:THR:HA	4:Wl:366:PRO:HB3	1.87	0.56
4:Wn:265:LEU:O	4:Wn:378:GLY:HA2	2.06	0.56
4:XI:24:ILE:HG13	4:XK:7:ILE:HD11	1.88	0.56
4:XI:76:ARG:NH2	4:XI:78:THR:OG1	2.39	0.56
4:XK:213:GLY:N	4:XK:231:ARG:O	2.38	0.56
4:XI:502:ASN:ND2	4:XI:516:ALA:O	2.38	0.56
4:Xn:86:VAL:HG22	4:Xn:87:ASN:H	1.70	0.56
5:YC:174:HIS:N	5:YC:508:TYR:OH	2.37	0.56
5:YC:1011:ARG:HH22	5:YC:1013:LYS:HD3	1.71	0.56
5:YX:327:ARG:HG2	5:YX:353:ASP:HB3	1.87	0.56
5:YY:990:MET:C	5:YY:992:PRO:HD3	2.31	0.56
5:Yc:217:GLN:OE1	5:Yc:218:THR:N	2.39	0.56
5:Yc:704:LEU:HD13	8:fA:16:ALA:HB3	1.88	0.56
5:Yx:696:ARG:HH12	5:Yx:726:PHE:HD1	1.53	0.56
6:aZ:274:ILE:HD11	6:aZ:330:ILE:HD12	1.88	0.56
7:b3:639:THR:HB	7:b8:624:VAL:HG12	1.86	0.56
7:b8:2:THR:OG1	7:b8:3:LEU:N	2.37	0.56
7:b9:253:PRO:HG2	7:b9:255:TYR:HE1	1.71	0.56
7:bP:564:ILE:HD11	7:cN:642:PHE:CE1	2.40	0.56
7:cD:66:MET:HG2	7:cD:468:VAL:HG21	1.87	0.56
7:cD:239:VAL:HG22	7:cD:280:ALA:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cG:76:ASN:ND2	7:cG:76:ASN:O	2.39	0.56
7:cH:159:GLU:HB3	7:cH:163:LEU:HA	1.88	0.56
7:cL:28:ALA:HB2	7:cL:370:VAL:HG21	1.86	0.56
7:cN:228:GLY:HA2	7:cN:345:SER:HB3	1.87	0.56
7:cN:239:VAL:HG22	7:cN:280:ALA:HB3	1.88	0.56
7:cN:406:LEU:HD13	7:cN:475:ALA:HB2	1.88	0.56
7:dS:256:PRO:HG2	7:dS:339:THR:H	1.70	0.56
7:dZ:45:THR:O	7:dZ:45:THR:OG1	2.24	0.56
8:fS:191:ASN:HB3	8:fS:275:THR:O	2.06	0.56
8:fU:414:LEU:HB3	8:fU:640:ILE:HG12	1.88	0.56
8:fU:433:GLU:HG2	8:fU:655:LEU:HD22	1.88	0.56
11:h2:114:ARG:HB3	11:h2:123:VAL:HG13	1.88	0.56
11:hp:54:MET:HE3	11:hz:20:LEU:HA	1.88	0.56
12:iF:318:LEU:HD23	12:iF:355:LEU:HD21	1.87	0.56
17:q3:256:GLN:OE1	17:q3:257:ARG:NH1	2.37	0.56
17:q4:99:SER:OG	17:q4:100:LEU:N	2.38	0.56
17:q8:106:VAL:HG21	17:q9:249:GLN:HB3	1.88	0.56
1:S0:8:HIS:HB3	4:Xm:196:ARG:HD2	1.88	0.56
1:S1:33:GLN:NE2	1:S2:19:ASP:O	2.31	0.56
1:S1:310:ASN:OD1	1:S1:311:GLY:N	2.39	0.56
1:S3:110:VAL:HG12	1:S3:111:ASN:H	1.71	0.56
1:S3:453:GLU:OE2	1:S3:471:THR:N	2.38	0.56
1:Sx:481:SER:OG	1:Sz:449:GLY:O	2.24	0.56
1:Sz:110:VAL:HG12	1:Sz:111:ASN:H	1.71	0.56
1:Sz:116:ILE:HG23	1:Sz:120:LYS:HE2	1.88	0.56
2:Td:222:LEU:HD11	2:Th:214:ILE:HD11	1.88	0.56
3:Up:39:THR:OG1	3:Up:42:GLN:OE1	2.23	0.56
3:VM:42:GLN:HB3	3:VM:47:PHE:HB3	1.87	0.56
3:Vq:60:HIS:NE2	3:Vu:28:ASP:OD2	2.38	0.56
4:WI:117:ILE:HA	4:WI:143:TRP:HB2	1.87	0.56
4:WI:176:ASP:HB3	4:WI:231:ARG:HG3	1.87	0.56
4:WJ:19:LEU:N	5:YC:919:TYR:O	2.37	0.56
4:WJ:265:LEU:HB3	4:WJ:281:TYR:HB3	1.86	0.56
4:Wj:232:LEU:HG	4:Wj:234:GLN:H	1.70	0.56
4:Wm:231:ARG:HG2	4:Wm:232:LEU:H	1.70	0.56
4:XJ:304:ILE:HD13	4:XJ:309:LEU:HG	1.88	0.56
4:XK:555:CYS:O	5:Yc:206:GLN:NE2	2.36	0.56
4:Xn:303:PRO:O	4:Xn:304:ILE:HG13	2.05	0.56
4:Xo:213:GLY:H	4:Xo:232:LEU:HA	1.71	0.56
5:YY:81:ARG:HG2	5:YY:94:TRP:HE3	1.70	0.56
5:YY:546:GLU:CD	5:YY:547:ASN:H	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:885:PRO:HB3	8:fA:401:LEU:HD11	1.87	0.56
5:Yc:977:ILE:HD12	5:Yc:981:GLN:HA	1.87	0.56
5:Yy:449:LYS:HD2	6:aD:74:HIS:NE2	2.20	0.56
5:Yy:853:ASP:C	5:Yy:855:ILE:H	2.14	0.56
7:b6:467:TRP:CZ3	7:cA:199:GLU:HB2	2.41	0.56
7:bP:642:PHE:HE1	7:dU:564:ILE:HD11	1.69	0.56
7:bR:311:ILE:HB	7:bR:327:ALA:HB2	1.87	0.56
7:cA:134:VAL:HG12	7:cA:140:ILE:HG22	1.87	0.56
7:cB:455:LYS:HB2	7:cB:470:LEU:HD13	1.87	0.56
7:cH:46:ASN:OD1	7:cH:47:GLU:N	2.38	0.56
7:cL:228:GLY:HA2	7:cL:345:SER:HB3	1.88	0.56
7:dV:103:ILE:HG12	7:dV:182:ILE:HG22	1.86	0.56
7:dV:560:LEU:O	7:dV:564:ILE:HG12	2.05	0.56
7:dZ:8:ILE:HG21	15:m1:62:PHE:CZ	2.41	0.56
7:dZ:271:TYR:CE2	7:dZ:304:ILE:HG13	2.41	0.56
8:fU:122:TYR:HB3	8:fU:152:ILE:HD11	1.87	0.56
12:iC:41:ARG:HG2	12:iC:343:ILE:HG12	1.87	0.56
12:iF:213:VAL:HG21	12:iF:333:PHE:CE1	2.41	0.56
12:iF:255:ALA:O	12:iF:289:ARG:NH2	2.39	0.56
16:o1:10:ASP:OD1	16:o1:10:ASP:N	2.37	0.56
16:pB:212:THR:HG21	17:q3:149:ARG:HB3	1.88	0.56
17:q5:199:ILE:HG12	17:q5:218:MET:HE1	1.88	0.56
17:q7:185:VAL:HG23	17:q7:186:THR:HG23	1.88	0.56
17:q8:95:ARG:NH2	17:q8:183:ASP:OD2	2.38	0.56
1:S4:301:ARG:HD3	1:S8:295:ILE:HG12	1.87	0.56
1:S5:429:CYS:SG	1:S7:515:TRP:NE1	2.79	0.56
1:S8:453:GLU:OE2	1:S8:471:THR:N	2.36	0.56
1:SQ:371:ASP:OD1	1:SQ:526:LYS:NZ	2.39	0.56
1:Sv:383:TYR:CG	1:Sv:393:PRO:HG3	2.41	0.56
1:Sw:176:ILE:HG12	1:Sw:177:ALA:H	1.69	0.56
1:Sx:449:GLY:HA2	1:Sz:484:THR:HG22	1.86	0.56
2:T5:247:ASP:OD2	2:T5:251:ASN:ND2	2.39	0.56
2:Td:53:GLY:HA3	2:Tf:7:LYS:HE2	1.88	0.56
3:UM:114:VAL:HG21	3:UM:129:VAL:HG22	1.88	0.56
4:WI:158:ASP:OD1	4:WI:158:ASP:N	2.35	0.56
4:WI:271:THR:HB	4:WI:273:LYS:HG2	1.86	0.56
4:WK:213:GLY:H	4:WK:232:LEU:HA	1.70	0.56
4:Wj:115:ASP:OD2	4:Wj:137:TYR:OH	2.20	0.56
4:Wm:472:TYR:HA	4:Wo:416:ILE:HG23	1.88	0.56
4:Wn:303:PRO:O	4:Wn:304:ILE:HG13	2.05	0.56
4:XI:194:LYS:HG2	4:XI:198:ASN:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:33:LEU:HA	4:XK:43:PRO:HG3	1.87	0.56
4:XK:113:SER:OG	4:XK:114:GLY:N	2.35	0.56
4:Xm:310:GLU:HB2	4:Xm:384:THR:HB	1.86	0.56
4:Xn:153:LYS:H	4:Xn:153:LYS:HD2	1.70	0.56
4:Xo:502:ASN:ND2	4:Xo:516:ALA:O	2.39	0.56
5:Yx:872:SER:H	5:Yx:894:THR:HG21	1.71	0.56
5:Yx:929:TYR:O	5:Yx:931:ASP:N	2.39	0.56
6:ZZ:309:MET:HE2	6:ZZ:312:MET:HG2	1.88	0.56
6:Za:228:ASN:HB3	6:Za:231:TRP:HD1	1.70	0.56
7:b6:205:MET:O	7:b6:211:GLN:NE2	2.38	0.56
7:bP:564:ILE:HD11	7:cN:642:PHE:HE1	1.71	0.56
7:cC:510:ARG:HG2	7:cC:511:GLN:H	1.71	0.56
7:cE:134:VAL:HG12	7:cE:140:ILE:HG22	1.88	0.56
7:cI:66:MET:HG2	7:cI:468:VAL:HG21	1.87	0.56
7:cN:455:LYS:HB2	7:cN:470:LEU:HD13	1.88	0.56
7:dU:486:GLN:OE1	16:o0:254:TYR:OH	2.11	0.56
8:eU:543:THR:OG1	8:eU:576:ASP:OD1	2.23	0.56
8:f9:148:ARG:HD2	8:f9:168:ALA:HB2	1.88	0.56
8:fA:544:ASP:HB2	8:fA:576:ASP:CG	2.31	0.56
9:gE:69:ILE:HD11	9:gG:123:ARG:HH21	1.71	0.56
11:h1:95:GLN:HG3	11:hz:64:ARG:NH1	2.21	0.56
11:hr:131:GLY:O	11:hr:159:LEU:HA	2.05	0.56
16:o2:47:ASP:HB2	16:o2:56:ASP:HB2	1.87	0.56
1:S0:403:SER:OG	1:S7:520:ASN:OD1	2.21	0.56
1:S0:476:ASP:OD1	1:S0:479:ASN:ND2	2.33	0.56
1:SP:497:ASN:H	1:SP:500:TYR:HB2	1.71	0.56
1:SQ:221:THR:HG23	1:SQ:224:TYR:H	1.71	0.56
2:T3:46:ARG:NH2	2:T3:66:TYR:OH	2.39	0.56
2:Ti:50:VAL:C	2:Ti:52:ASN:H	2.14	0.56
3:Uu:65:LYS:O	3:Uu:217:ARG:NH1	2.38	0.56
3:VL:69:THR:HG23	3:VM:73:ASN:HB3	1.88	0.56
3:Vp:32:ARG:NH1	3:Vr:144:ASN:OD1	2.35	0.56
3:Vp:144:ASN:OD1	3:Vt:32:ARG:NH1	2.39	0.56
4:Wj:289:LYS:HD2	4:Wj:372:ASP:HB3	1.87	0.56
4:XI:496:ASP:HB3	4:XI:500:ALA:HB2	1.88	0.56
4:Xk:207:SER:O	4:Xk:210:SER:OG	2.21	0.56
4:Xo:469:PRO:HB2	4:Xo:478:TRP:CD1	2.41	0.56
5:YC:932:ARG:HG3	5:YC:1005:ARG:HH22	1.71	0.56
5:YX:148:ASN:HB2	5:YX:168:ILE:HG13	1.88	0.56
5:YY:723:VAL:HG13	8:eW:257:ILE:HD11	1.87	0.56
5:YY:900:ILE:HG21	6:Zc:311:TYR:HE1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:470:ALA:HA	6:ZD:57:ALA:H	1.71	0.56
5:Yc:887:GLY:H	8:fA:364:THR:HB	1.69	0.56
5:Yy:724:ALA:C	5:Yy:726:PHE:H	2.14	0.56
6:aZ:229:LEU:O	6:aZ:232:GLN:NE2	2.39	0.56
6:ab:42:GLY:HA2	6:ab:76:MET:HB2	1.88	0.56
7:cM:66:MET:HG2	7:cM:468:VAL:HG21	1.88	0.56
7:dU:57:PRO:HG3	7:dU:65:PHE:CD1	2.41	0.56
8:eB:543:THR:O	8:eB:597:TYR:OH	2.23	0.56
8:eU:214:MET:HA	8:eU:217:ALA:HB2	1.88	0.56
8:fB:414:LEU:HB3	8:fB:640:ILE:HG12	1.87	0.56
8:fR:340:VAL:HG13	8:fR:401:LEU:HD11	1.86	0.56
8:fS:201:VAL:O	8:fS:203:GLY:N	2.38	0.56
8:fU:98:TYR:CZ	8:fU:328:LEU:HD13	2.41	0.56
9:gH:568:ASP:OD1	9:gH:569:GLY:N	2.39	0.56
11:hi:140:LEU:HD13	11:hi:153:PHE:HB3	1.88	0.56
11:hj:95:GLN:HG3	11:hu:64:ARG:NH1	2.20	0.56
11:hl:97:ASN:HA	11:ho:3:VAL:HG12	1.88	0.56
16:pB:252:ASP:O	16:pB:254:TYR:N	2.37	0.56
1:S2:240:ASN:HB3	1:S2:243:VAL:HG22	1.88	0.55
1:S5:512:THR:HA	1:S7:442:MET:HA	1.88	0.55
1:S6:448:ALA:N	1:S8:485:ASN:OD1	2.38	0.55
1:SA:143:LYS:HG2	1:Sw:139:ASN:HB3	1.88	0.55
1:SO:24:ASN:HD22	1:SQ:41:PRO:HA	1.71	0.55
1:Sw:12:GLU:HG3	1:Sw:14:ARG:H	1.70	0.55
1:Sw:273:SER:OG	1:Sy:257:THR:O	2.24	0.55
1:Sw:340:THR:HG22	1:Sw:341:ILE:HG12	1.88	0.55
2:Tf:50:VAL:C	2:Tf:52:ASN:H	2.14	0.55
2:Tf:85:HIS:HB2	2:Tf:109:PHE:CD1	2.41	0.55
3:Up:13:ARG:HG2	3:Up:14:LEU:H	1.71	0.55
3:VM:107:VAL:HG22	3:VM:174:TYR:HD2	1.71	0.55
4:WI:18:TYR:CZ	4:WI:21:LYS:HG2	2.40	0.55
4:WK:111:ALA:HB2	4:WK:117:ILE:HG23	1.88	0.55
4:Wj:161:ASN:HB2	4:Wj:248:MET:SD	2.46	0.55
4:Wl:90:ASN:ND2	4:Wn:49:TRP:O	2.39	0.55
4:XI:49:TRP:CD1	4:XI:67:SER:HG	2.24	0.55
4:XJ:7:ILE:HD11	4:XK:24:ILE:HG13	1.88	0.55
4:XJ:19:LEU:HA	5:Yc:921:TRP:HE1	1.71	0.55
4:XK:362:GLU:HB2	4:XK:366:PRO:HA	1.88	0.55
4:Xn:63:GLU:HG2	4:Xn:66:LYS:HD3	1.88	0.55
5:YC:122:PHE:HE1	5:YC:135:VAL:HG21	1.70	0.55
5:YY:793:CYS:HB3	5:YY:813:ILE:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:326:VAL:O	5:Yx:355:MET:HB2	2.06	0.55
7:b7:414:VAL:HG23	7:b7:422:ALA:HB1	1.88	0.55
7:bR:205:MET:O	7:bR:211:GLN:NE2	2.29	0.55
7:cA:40:GLN:H	7:cA:81:VAL:HG23	1.71	0.55
7:cC:26:THR:HA	7:cC:77:ASP:O	2.06	0.55
7:cC:488:TRP:O	7:cC:552:ASN:ND2	2.38	0.55
7:cG:654:LEU:HD22	7:cH:605:ARG:HH11	1.69	0.55
7:cO:11:LYS:HG2	7:cO:13:THR:HG23	1.89	0.55
7:dU:171:ILE:HD13	7:dU:171:ILE:H	1.70	0.55
7:dW:100:GLU:OE2	7:dW:186:LYS:NZ	2.39	0.55
8:eU:169:GLN:OE1	8:eU:276:ASN:ND2	2.39	0.55
8:eU:208:ASN:HB3	8:eU:224:TYR:CZ	2.41	0.55
8:eW:42:GLU:HG3	8:fs:55:VAL:HG21	1.88	0.55
8:f9:227:ARG:NE	8:f9:235:GLU:OE2	2.31	0.55
8:f9:566:ASN:OD1	8:f9:567:GLU:N	2.39	0.55
8:fS:361:GLN:NE2	8:fS:635:ARG:O	2.39	0.55
8:fU:536:TYR:OH	8:fU:562:ASP:OD2	2.21	0.55
11:h1:64:ARG:NH1	11:h2:95:GLN:HG3	2.22	0.55
11:h2:103:LYS:HG2	11:hL:13:GLY:HA3	1.88	0.55
11:hL:97:ASN:HB3	17:q8:5:GLU:HG2	1.87	0.55
11:hw:23:VAL:HG11	11:hw:39:THR:HG21	1.87	0.55
11:hx:14:ASP:OD1	11:hx:17:ARG:NH2	2.40	0.55
12:iF:237:LEU:HB3	13:ja:581:PRO:HG2	1.88	0.55
16:o0:252:ASP:O	16:o0:254:TYR:N	2.39	0.55
16:o1:245:GLU:HB3	16:o1:264:PRO:HB3	1.87	0.55
16:pA:42:ARG:NH1	16:pA:60:ASN:O	2.34	0.55
16:pB:339:PRO:HD2	16:pB:342:PHE:HE1	1.71	0.55
17:q7:167:GLU:O	17:q7:169:CYS:N	2.38	0.55
1:S1:6:TYR:HD2	1:S1:7:GLN:HG2	1.70	0.55
1:S4:359:TRP:NE1	1:S6:340:THR:O	2.35	0.55
1:SA:233:GLN:HE22	1:SA:252:GLY:HA3	1.71	0.55
1:SA:360:ARG:HH12	1:SA:526:LYS:HE2	1.71	0.55
1:SA:411:ASN:O	1:SA:415:ASN:ND2	2.29	0.55
1:SA:417:ASN:HA	1:SA:423:PRO:HA	1.88	0.55
1:SA:463:THR:O	1:Sy:480:ARG:NH1	2.38	0.55
1:SA:503:ASN:OD1	1:Sy:446:LYS:N	2.33	0.55
1:SO:57:ILE:HG12	1:SQ:57:ILE:HG12	1.88	0.55
1:Sv:39:ILE:HD12	1:Sx:39:ILE:HG21	1.88	0.55
1:Sv:395:MET:HA	1:Sv:398:LEU:HD12	1.88	0.55
1:Sy:161:THR:O	1:Sy:165:THR:OG1	2.21	0.55
2:T4:50:VAL:HG12	2:T4:51:ALA:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T4:204:VAL:HG11	2:T4:252:ILE:HG12	1.87	0.55
2:T6:111:ASN:ND2	2:T6:113:ASN:OD1	2.35	0.55
3:Vs:114:VAL:HG21	3:Vs:129:VAL:HG22	1.87	0.55
4:WK:249:ASP:OD1	4:WK:249:ASP:N	2.38	0.55
4:Xl:393:LEU:HD21	4:XK:390:LEU:HG	1.87	0.55
4:XJ:109:LEU:HB3	4:XJ:124:VAL:HG23	1.87	0.55
4:XK:189:ASN:ND2	4:XK:249:ASP:OD2	2.39	0.55
4:Xj:110:VAL:HG22	4:Xj:123:PRO:HB3	1.88	0.55
4:Xk:104:VAL:HG13	4:Xk:105:ASN:H	1.71	0.55
4:Xk:271:THR:HB	4:Xk:273:LYS:HG2	1.89	0.55
4:Xm:313:PHE:HB3	4:Xm:381:ILE:HG12	1.88	0.55
5:YC:723:VAL:HG13	8:eB:257:ILE:HD11	1.87	0.55
5:YX:53:GLN:N	5:YX:53:GLN:OE1	2.39	0.55
5:YX:412:THR:HG1	5:YX:413:TRP:CD1	2.24	0.55
5:YY:712:ASN:HD21	5:YY:720:ARG:HG3	1.71	0.55
5:YY:746:PHE:O	5:YY:750:VAL:HG13	2.06	0.55
5:YY:788:THR:HG23	5:YY:790:THR:H	1.71	0.55
5:Yx:575:PHE:HB2	5:Yx:608:VAL:HG22	1.87	0.55
5:Yy:217:GLN:HG2	5:Yy:218:THR:HG23	1.89	0.55
5:Yy:651:THR:HG21	14:k4:55:ARG:HD3	1.87	0.55
6:ZD:282:LYS:NZ	6:ZD:289:ASN:OD1	2.36	0.55
6:ab:249:PHE:HB2	6:ab:330:ILE:HB	1.88	0.55
7:b0:576:ASN:ND2	7:b0:622:GLU:O	2.39	0.55
7:b7:438:ASP:OD1	7:b7:438:ASP:N	2.36	0.55
7:bQ:11:LYS:HB3	7:bQ:13:THR:HG23	1.87	0.55
7:bY:366:GLU:OE2	7:cH:514:ARG:NH1	2.39	0.55
7:cB:487:THR:HG21	7:cB:559:MET:HE3	1.86	0.55
7:cC:36:GLY:O	7:cC:82:ARG:NH1	2.40	0.55
7:cG:455:LYS:HB2	7:cG:470:LEU:HD13	1.87	0.55
7:cJ:383:LEU:HD11	7:cJ:436:TYR:CE2	2.41	0.55
7:cJ:510:ARG:HG2	7:cJ:511:GLN:H	1.71	0.55
7:cO:100:GLU:OE2	7:cO:186:LYS:NZ	2.37	0.55
7:cP:601:ILE:HD12	7:cP:604:TYR:HB3	1.88	0.55
7:dT:378:CYS:HB2	7:dT:410:PRO:HA	1.88	0.55
7:dT:560:LEU:O	7:dT:564:ILE:HG12	2.05	0.55
7:dW:269:PHE:CE2	7:dW:280:ALA:HB1	2.42	0.55
7:dW:571:ARG:HD2	7:dW:584:PHE:HB2	1.88	0.55
7:dZ:202:GLU:OE1	7:dZ:203:ALA:N	2.39	0.55
8:f9:357:ILE:HD12	8:f9:376:ALA:HB1	1.87	0.55
8:fB:241:GLY:HA3	8:fB:260:LEU:HA	1.88	0.55
8:fB:364:THR:OG1	8:fB:365:ASP:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fr:456:ASN:O	8:fr:634:THR:OG1	2.23	0.55
8:fr:539:ARG:HD2	8:fr:580:LEU:HD23	1.86	0.55
8:fs:545:ARG:HG3	8:fs:549:GLY:HA2	1.88	0.55
8:fr:389:ARG:HB2	8:fr:408:ILE:HB	1.89	0.55
11:h1:136:ASN:O	11:h1:136:ASN:ND2	2.39	0.55
11:he:55:ASN:OD1	11:hk:19:ASN:ND2	2.39	0.55
11:hf:56:ARG:HH11	11:hf:56:ARG:HB3	1.71	0.55
11:hg:106:GLU:O	11:hg:109:LYS:NZ	2.36	0.55
11:hj:66:PHE:HE2	11:hu:56:ARG:HH12	1.53	0.55
16:o2:40:THR:HG21	16:o2:217:GLU:HB3	1.88	0.55
17:q7:140:ASP:HB2	17:q7:149:ARG:HD2	1.87	0.55
1:S0:228:ILE:HD12	1:S0:244:ALA:HB2	1.88	0.55
1:S1:111:ASN:O	1:S1:114:SER:OG	2.21	0.55
1:S6:100:TYR:OH	1:S8:113:GLU:O	2.22	0.55
1:SO:96:GLY:HA2	1:SQ:97:LEU:HD13	1.88	0.55
1:Sv:403:SER:OG	1:Sz:520:ASN:OD1	2.24	0.55
1:Sw:515:TRP:HB3	1:Sy:398:LEU:HD22	1.87	0.55
1:Sx:61:PRO:HB3	1:Sx:74:LYS:HD3	1.87	0.55
1:Sz:47:VAL:HA	1:Sz:57:ILE:HD12	1.87	0.55
2:T4:14:GLU:O	2:T4:16:GLY:N	2.39	0.55
2:T6:67:TYR:CD2	2:T6:84:ARG:HB3	2.41	0.55
2:TF:240:VAL:HG23	2:TG:222:LEU:HD21	1.88	0.55
2:TG:64:THR:HA	2:TH:84:ARG:HE	1.71	0.55
3:Uq:4:LEU:HD22	4:Wm:356:TYR:HD2	1.71	0.55
4:Wk:222:LEU:HG	4:Wk:224:PRO:HD2	1.88	0.55
4:XJ:314:ASN:N	4:XJ:380:ILE:O	2.38	0.55
5:YY:600:PHE:HZ	5:YY:608:VAL:HB	1.71	0.55
5:Yc:426:ARG:HH11	5:Yc:490:PHE:HZ	1.54	0.55
5:Yc:507:LYS:HB2	5:Yc:511:GLU:HB2	1.89	0.55
5:Yc:712:ASN:HD21	5:Yc:720:ARG:HG3	1.72	0.55
5:Yc:744:TYR:OH	5:Yc:884:HIS:ND1	2.38	0.55
5:Yy:872:SER:H	5:Yy:894:THR:HG21	1.71	0.55
7:b3:220:PRO:HG2	7:b3:338:LEU:HD11	1.88	0.55
7:b6:198:ILE:HD11	7:b6:225:LEU:HD11	1.87	0.55
7:b7:454:TYR:HB3	7:b7:467:TRP:CD1	2.41	0.55
7:b8:26:THR:HA	7:b8:77:ASP:O	2.06	0.55
7:b9:647:THR:O	7:cD:630:GLN:NE2	2.39	0.55
7:bN:11:LYS:HB3	7:bN:13:THR:HG23	1.88	0.55
7:bO:209:ASP:OD1	7:bO:209:ASP:N	2.39	0.55
7:bP:485:SER:OG	7:bP:486:GLN:N	2.39	0.55
7:bR:613:ASN:HB3	7:bR:618:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:571:ARG:NH1	7:cO:583:SER:OG	2.39	0.55
8:f9:84:ASN:ND2	14:kV:11:TYR:OH	2.35	0.55
8:fR:536:TYR:OH	8:fR:562:ASP:OD2	2.13	0.55
9:gE:3:MET:HB2	12:iC:275:ILE:HG12	1.88	0.55
9:gE:436:ASP:OD1	9:gE:437:ASN:N	2.33	0.55
11:ho:96:GLY:O	11:hs:56:ARG:NH2	2.31	0.55
11:ht:48:LYS:HG3	11:ht:59:ASN:HB3	1.87	0.55
12:iD:13:SER:HB3	12:iD:73:SER:HB3	1.88	0.55
12:iF:93:PHE:HB3	12:iF:107:ILE:HB	1.88	0.55
15:m2:56:ASP:O	15:m2:60:GLN:NE2	2.38	0.55
16:o0:29:VAL:HG13	16:o0:262:LEU:HD11	1.88	0.55
16:o1:212:THR:HG21	17:q5:149:ARG:HG2	1.86	0.55
16:o6:9:ALA:HA	16:o6:12:ILE:HD11	1.87	0.55
1:S1:50:ALA:HA	1:S1:56:GLY:HA3	1.88	0.55
1:S1:66:VAL:HG21	1:S1:80:THR:HB	1.87	0.55
1:S4:473:LYS:HB3	1:S6:473:LYS:HD2	1.89	0.55
1:S4:512:THR:HA	1:S6:442:MET:HA	1.88	0.55
1:S5:449:GLY:HA2	1:S7:484:THR:HG22	1.88	0.55
1:SQ:47:VAL:HA	1:SQ:57:ILE:HD12	1.88	0.55
1:Sv:19:ASP:O	1:Sz:33:GLN:NE2	2.38	0.55
1:Sv:141:VAL:HG22	1:Sx:139:ASN:HB2	1.87	0.55
1:Sv:207:GLY:HA2	1:Sz:193:LEU:HD11	1.89	0.55
1:Sx:162:PRO:HB2	1:Sz:153:GLY:HA3	1.86	0.55
2:T3:50:VAL:O	2:T3:52:ASN:N	2.39	0.55
3:Ur:16:ASP:HB3	3:Ur:42:GLN:HG3	1.88	0.55
4:WK:214:SER:OG	4:WK:222:LEU:O	2.24	0.55
4:WK:266:LEU:HA	4:WK:377:HIS:O	2.07	0.55
4:Wk:43:PRO:HG3	4:Wo:33:LEU:HA	1.87	0.55
4:Wk:191:ILE:O	4:Wk:192:ARG:NH1	2.34	0.55
4:Wk:329:PHE:HB3	4:Wk:332:VAL:HB	1.87	0.55
4:Wn:340:VAL:HG23	4:Wn:341:GLU:HG3	1.87	0.55
4:Wo:249:ASP:OD1	4:Wo:249:ASP:N	2.39	0.55
4:Xj:115:ASP:OD2	4:Xj:137:TYR:OH	2.22	0.55
5:Yc:112:ASN:ND2	5:Yc:116:MET:O	2.39	0.55
5:Yc:403:ILE:HG23	5:Yc:417:PHE:HB3	1.86	0.55
5:Yx:615:THR:OG1	8:fW:617:GLU:OE2	2.24	0.55
5:Yx:911:THR:HG22	6:aZ:330:ILE:HG12	1.87	0.55
6:Zb:21:MET:HG3	6:Zb:247:ILE:HG13	1.89	0.55
6:Zc:270:ARG:CZ	6:Zc:317:PRO:HB3	2.37	0.55
6:aE:90:ILE:HD11	6:aE:208:ILE:HD11	1.87	0.55
7:b3:417:ILE:H	7:b3:417:ILE:HD13	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b5:538:ASP:N	7:b5:538:ASP:OD1	2.36	0.55
7:bN:33:PHE:HA	7:bN:61:THR:HG23	1.88	0.55
7:bR:247:GLY:HA2	7:bR:266:LYS:HG3	1.86	0.55
7:bY:456:TYR:HB3	7:bY:504:LYS:HB3	1.89	0.55
7:cH:438:ASP:OD1	7:cH:438:ASP:N	2.31	0.55
7:cI:470:LEU:HD23	7:cI:525:VAL:HG21	1.87	0.55
7:cJ:66:MET:HG2	7:cJ:468:VAL:HG21	1.89	0.55
7:cK:57:PRO:HG3	7:cK:65:PHE:CD1	2.42	0.55
7:cK:70:ASN:OD1	7:cK:457:GLN:NE2	2.36	0.55
7:cL:455:LYS:HB2	7:cL:470:LEU:HD13	1.88	0.55
7:cM:239:VAL:HG22	7:cM:280:ALA:HB3	1.89	0.55
7:dV:456:TYR:CD2	7:dV:504:LYS:HD2	2.41	0.55
7:dZ:278:GLN:HG2	7:dZ:296:SER:HB2	1.88	0.55
8:eB:454:ILE:HG22	8:eB:455:PHE:H	1.71	0.55
8:eB:510:MET:HE3	8:eB:623:LEU:HD11	1.88	0.55
8:fR:211:ARG:O	8:fR:399:TYR:OH	2.20	0.55
11:hI:6:VAL:HG21	11:hx:58:ILE:HD11	1.88	0.55
11:hL:136:ASN:O	11:hL:136:ASN:ND2	2.39	0.55
11:hn:64:ARG:NH1	11:hu:95:GLN:HG3	2.21	0.55
11:hy:19:ASN:OD1	11:hy:19:ASN:N	2.36	0.55
12:iF:89:GLY:HA3	12:iF:115:ILE:HD12	1.89	0.55
14:k4:112:HIS:HB3	14:k4:150:LEU:HD13	1.89	0.55
1:S0:260:ARG:HH21	1:S7:278:SER:HB2	1.71	0.55
1:S6:349:TRP:HB2	1:S6:522:ILE:HD13	1.87	0.55
1:SO:481:SER:OG	1:SP:449:GLY:O	2.19	0.55
1:SP:117:THR:HG23	1:SP:120:LYS:H	1.72	0.55
1:SP:150:ALA:HB3	1:SP:168:LEU:HD13	1.88	0.55
1:Sv:411:ASN:O	1:Sv:415:ASN:ND2	2.37	0.55
1:Sw:240:ASN:HB3	1:Sw:243:VAL:HG22	1.88	0.55
1:Sy:58:LEU:HD11	1:Sy:75:ALA:HB2	1.88	0.55
2:T1:204:VAL:HG22	2:T1:276:VAL:HG22	1.89	0.55
2:T4:36:ASN:O	2:T4:40:ASN:ND2	2.31	0.55
2:T5:28:GLY:O	2:T5:32:ASN:ND2	2.31	0.55
2:T5:240:VAL:HG23	2:T7:222:LEU:HD21	1.88	0.55
2:TG:207:GLN:HG3	2:TG:214:ILE:HB	1.88	0.55
2:Td:84:ARG:HE	2:Th:64:THR:HA	1.71	0.55
2:Te:15:ILE:HA	2:Te:23:ILE:HD13	1.89	0.55
2:Ti:194:ARG:HH21	2:Ti:259:ASN:HA	1.70	0.55
3:Uu:130:ARG:HE	3:Uu:148:ASP:CG	2.15	0.55
3:Vr:85:THR:HG22	3:Vr:183:ILE:HD12	1.88	0.55
4:Wm:79:ILE:HG13	4:Wm:109:LEU:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:102:TRP:CZ3	4:XI:131:SER:HB2	2.41	0.55
4:XJ:115:ASP:OD2	4:XJ:137:TYR:OH	2.18	0.55
5:YC:546:GLU:OE1	5:YC:547:ASN:N	2.39	0.55
5:YC:876:LYS:HG3	5:YC:890:PHE:HZ	1.70	0.55
5:YY:159:ASP:HA	5:YY:593:GLU:HA	1.88	0.55
5:YY:433:ASN:OD1	5:YY:434:MET:N	2.39	0.55
5:Yx:112:ASN:ND2	5:Yx:116:MET:O	2.39	0.55
5:Yx:160:VAL:O	5:Yx:164:SER:OG	2.24	0.55
5:Yx:737:THR:HG22	8:fU:337:GLN:HB2	1.88	0.55
5:Yy:302:ALA:O	5:Yy:327:ARG:NH2	2.40	0.55
5:Yy:746:PHE:O	5:Yy:750:VAL:HG13	2.06	0.55
6:ZZ:138:ASP:HA	6:ZZ:150:LYS:HE3	1.87	0.55
6:aE:47:TRP:N	6:aE:51:GLU:OE1	2.37	0.55
7:b0:549:ASP:OD2	7:cA:271:TYR:OH	2.12	0.55
7:b3:271:TYR:OH	7:cE:549:ASP:OD2	2.18	0.55
7:b9:154:ALA:HA	7:b9:157:VAL:HG22	1.87	0.55
7:bQ:561:LYS:HD2	7:cP:10:LEU:HD13	1.87	0.55
7:cF:137:ASP:OD1	7:cF:137:ASP:N	2.35	0.55
7:cG:40:GLN:H	7:cG:81:VAL:HG23	1.71	0.55
7:cG:480:ARG:HA	7:cG:483:ASN:HD22	1.71	0.55
7:cN:494:TYR:HE2	7:cN:528:THR:HG21	1.70	0.55
7:cN:609:ASP:OD1	7:cN:611:THR:OG1	2.21	0.55
8:eB:463:LYS:HA	8:eB:466:THR:HG23	1.88	0.55
8:eU:545:ARG:HG3	8:eU:549:GLY:HA2	1.89	0.55
8:fA:94:GLN:HE22	8:fA:228:GLU:HB3	1.71	0.55
8:fS:291:THR:HG22	12:iC:156:TYR:HD1	1.72	0.55
8:fS:501:TYR:O	8:fS:503:ASN:ND2	2.39	0.55
11:hJ:136:ASN:O	11:hJ:136:ASN:ND2	2.39	0.55
11:hM:14:ASP:OD1	11:hM:17:ARG:NH2	2.36	0.55
11:hn:82:ARG:NH1	11:hn:138:GLY:HA2	2.20	0.55
11:hq:83:GLN:HA	11:hq:86:VAL:HG22	1.87	0.55
11:hw:136:ASN:O	11:hw:136:ASN:ND2	2.36	0.55
11:hy:64:ARG:NH1	11:hz:95:GLN:HG3	2.21	0.55
15:mT:81:VAL:HG11	15:mT:91:LEU:HD13	1.87	0.55
17:q9:6:GLU:O	17:q9:10:GLN:HB2	2.07	0.55
17:q9:167:GLU:O	17:q9:169:CYS:N	2.39	0.55
1:S1:233:GLN:HA	1:S1:236:VAL:HG22	1.89	0.55
1:S1:263:VAL:HG12	1:S1:278:SER:HB3	1.89	0.55
1:S1:276:ASP:OD1	1:S2:260:ARG:NH2	2.26	0.55
1:S5:476:ASP:O	1:S5:479:ASN:ND2	2.40	0.55
1:SA:21:THR:HG21	1:Sy:14:ARG:HH21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SP:451:PHE:HZ	1:SP:471:THR:HG22	1.71	0.55
1:Sv:78:PRO:HB3	1:Sx:66:VAL:HA	1.88	0.55
1:Sx:167:GLN:HG2	3:UL:77:VAL:HG23	1.88	0.55
1:Sz:349:TRP:NE1	1:Sz:353:SER:O	2.39	0.55
2:TF:172:GLU:OE2	2:TF:197:TYR:OH	2.22	0.55
3:Vq:28:ASP:OD2	3:Vs:60:HIS:NE2	2.39	0.55
4:WK:190:ASN:HD22	4:WK:247:PHE:HD2	1.55	0.55
4:Wj:18:TYR:CZ	4:Wj:21:LYS:HG2	2.42	0.55
4:Wj:214:SER:HB2	4:Wj:225:LEU:HA	1.89	0.55
4:Wn:313:PHE:HB3	4:Wn:381:ILE:HG12	1.89	0.55
4:Wo:266:LEU:HB2	4:Wo:271:THR:HG23	1.88	0.55
4:XI:164:ARG:HG3	4:XI:245:GLU:HG2	1.88	0.55
4:Xk:102:TRP:CZ3	4:Xk:131:SER:HB2	2.42	0.55
4:Xm:19:LEU:N	5:Yy:919:TYR:O	2.36	0.55
4:Xm:507:ASP:OD1	4:Xm:511:ASN:N	2.40	0.55
4:Xn:314:ASN:N	4:Xn:380:ILE:O	2.40	0.55
5:YC:454:ASN:OD1	5:YC:454:ASN:N	2.40	0.55
5:Yc:81:ARG:HG2	5:Yc:94:TRP:HE3	1.71	0.55
5:Yc:816:LEU:O	6:aE:201:ASN:ND2	2.40	0.55
6:aE:44:SER:HB3	6:aE:76:MET:HE2	1.89	0.55
7:b6:641:ASN:HB2	7:cA:626:THR:HG23	1.88	0.55
7:bQ:99:ILE:HA	7:bQ:187:ILE:HD13	1.87	0.55
7:bY:202:GLU:OE1	7:bY:203:ALA:N	2.40	0.55
7:cB:114:ASP:HB2	7:cB:131:ILE:HG13	1.89	0.55
7:cE:11:LYS:HG2	7:cE:13:THR:HG23	1.89	0.55
7:cI:655:THR:HB	7:cJ:19:VAL:HG21	1.89	0.55
7:cJ:90:LYS:NZ	7:cJ:190:ASP:OD1	2.40	0.55
7:cK:417:ILE:H	7:cK:417:ILE:HD13	1.70	0.55
7:cP:154:ALA:HA	7:cP:157:VAL:HG22	1.89	0.55
7:dZ:103:ILE:HG12	7:dZ:182:ILE:HG22	1.88	0.55
7:dZ:379:ALA:HB2	7:dZ:469:PRO:HD3	1.89	0.55
8:eU:433:GLU:HG2	8:eU:655:LEU:HD22	1.89	0.55
8:fA:349:VAL:HG22	8:fA:392:ILE:HD11	1.87	0.55
8:fW:275:THR:OG1	8:fW:276:ASN:N	2.37	0.55
11:hX:23:VAL:HG11	11:hX:39:THR:HG21	1.88	0.55
11:hj:82:ARG:NH1	11:hj:138:GLY:HA2	2.21	0.55
14:k3:59:LEU:HD23	14:k3:73:LEU:HD13	1.89	0.55
14:lV:59:LEU:HG	14:lV:63:ILE:HD13	1.88	0.55
17:q4:139:THR:HG21	17:q9:155:LEU:HD12	1.88	0.55
1:S8:66:VAL:O	1:S8:84:ARG:NH2	2.40	0.55
1:SO:303:GLU:HA	1:SP:309:ALA:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sz:85:LEU:HG	1:Sz:86:SER:H	1.71	0.55
2:Td:1:MET:HG2	2:Td:70:HIS:CE1	2.42	0.55
2:Tf:124:ILE:HD12	2:Tf:137:LEU:HD23	1.88	0.55
2:Tg:124:ILE:HD12	2:Tg:137:LEU:HD23	1.86	0.55
3:UM:109:VAL:HG13	3:UM:178:ILE:HD13	1.89	0.55
3:Up:165:LYS:NZ	3:Up:185:GLU:OE1	2.39	0.55
4:WI:19:LEU:HG	5:YC:999:THR:HB	1.88	0.55
4:Wk:154:ILE:HG12	4:Wm:153:LYS:HZ1	1.72	0.55
4:Wk:279:SER:HB2	4:Wo:326:MET:HE3	1.89	0.55
4:Xm:397:ASP:OD1	4:Xm:398:GLU:N	2.39	0.55
4:Xm:463:ALA:HB2	4:Xo:459:ILE:HD11	1.87	0.55
4:Xo:310:GLU:HB2	4:Xo:384:THR:HB	1.89	0.55
5:YC:865:LYS:HE2	5:YC:867:LYS:HE2	1.88	0.55
5:YX:110:PHE:HB3	5:YX:619:LEU:HD11	1.88	0.55
5:YY:744:TYR:OH	5:YY:884:HIS:ND1	2.34	0.55
5:Yc:506:MET:HG3	5:Yc:507:LYS:H	1.72	0.55
5:Yx:339:ASP:O	5:Yx:342:SER:OG	2.22	0.55
5:Yx:649:ILE:HA	5:Yx:652:MET:HE2	1.88	0.55
5:Yy:192:LEU:HD13	5:Yy:201:LEU:HD12	1.88	0.55
6:aZ:174:GLY:HA3	6:aZ:180:ILE:HG12	1.89	0.55
7:bN:159:GLU:OE1	7:bN:167:TRP:NE1	2.34	0.55
7:bY:485:SER:OG	7:bY:486:GLN:N	2.37	0.55
7:cC:131:ILE:HG12	7:cC:143:ILE:HG22	1.89	0.55
7:cH:154:ALA:HA	7:cH:157:VAL:HG22	1.89	0.55
7:cH:455:LYS:HB2	7:cH:470:LEU:HD13	1.87	0.55
7:cI:406:LEU:HD13	7:cI:475:ALA:HB2	1.88	0.55
7:cJ:386:ALA:O	7:cJ:390:GLN:NE2	2.39	0.55
7:cJ:455:LYS:NZ	7:cJ:457:GLN:OE1	2.40	0.55
7:cK:394:VAL:HG11	7:cK:443:ILE:HD12	1.88	0.55
7:cN:166:ASN:OD1	7:cN:166:ASN:N	2.31	0.55
7:cO:617:VAL:HG22	7:cO:622:GLU:HB2	1.89	0.55
7:dT:455:LYS:HB3	7:dT:470:LEU:HD13	1.86	0.55
8:eU:582:ASN:OD1	8:eU:586:ARG:NH1	2.39	0.55
8:fR:150:ASP:N	8:fR:150:ASP:OD1	2.39	0.55
8:fs:84:ASN:ND2	14:k8:11:TYR:OH	2.35	0.55
1:S1:401:ARG:NH1	1:S1:430:THR:O	2.40	0.55
1:S2:7:GLN:HB2	1:S2:15:TYR:CZ	2.42	0.55
1:S2:192:GLN:OE1	1:S3:188:GLN:NE2	2.40	0.55
1:S2:363:HIS:O	1:S2:396:ARG:NH2	2.39	0.55
1:S5:20:PRO:HB3	1:S5:29:ILE:HG13	1.89	0.55
1:S7:132:ARG:NH2	1:S7:139:ASN:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:85:LEU:HG	1:S8:86:SER:H	1.72	0.55
1:SO:98:THR:HG23	1:SO:114:SER:HA	1.87	0.55
1:SP:278:SER:HB2	1:SQ:260:ARG:HH21	1.72	0.55
1:Sv:403:SER:N	1:Sz:519:LEU:O	2.36	0.55
1:Sw:212:PRO:HB3	1:Sy:199:VAL:HA	1.88	0.55
2:T1:7:LYS:HE2	2:T3:53:GLY:HA3	1.87	0.55
2:T1:218:GLU:OE1	2:T2:201:LYS:NZ	2.31	0.55
2:TF:133:VAL:HG21	2:TF:137:LEU:HD13	1.89	0.55
3:Up:42:GLN:HB3	3:Up:47:PHE:HB3	1.89	0.55
3:Uq:28:ASP:OD2	3:Us:60:HIS:NE2	2.39	0.55
3:Us:148:ASP:OD1	3:Us:148:ASP:N	2.39	0.55
3:Vp:164:GLN:NE2	3:Vt:54:SER:O	2.40	0.55
3:Vt:126:VAL:HG13	3:Vt:156:LEU:HD11	1.89	0.55
4:WI:116:THR:HG22	4:WI:121:ALA:HB2	1.89	0.55
4:WI:372:ASP:N	4:WI:372:ASP:OD1	2.39	0.55
4:WK:206:PHE:HB3	4:WK:223:VAL:HG13	1.89	0.55
4:Wj:222:LEU:HG	4:Wj:224:PRO:HD2	1.88	0.55
4:Wn:354:THR:OG1	4:Wn:359:GLU:OE1	2.25	0.55
4:Wo:223:VAL:HB	4:Wo:224:PRO:HD3	1.87	0.55
4:Xj:358:VAL:HG13	4:Xj:369:LEU:HB2	1.88	0.55
4:Xo:559:PRO:HB3	5:Yy:228:ARG:HH22	1.71	0.55
5:YC:204:ARG:O	5:YC:230:GLY:N	2.39	0.55
5:YC:287:LEU:HD12	5:YC:289:PHE:H	1.72	0.55
5:YC:584:GLY:HA2	5:YC:600:PHE:HB2	1.87	0.55
5:Yx:316:ASP:HA	5:Yx:331:THR:HB	1.89	0.55
5:Yx:486:HIS:HB2	6:aa:305:HIS:CE1	2.41	0.55
6:ZZ:136:VAL:O	6:ZZ:150:LYS:NZ	2.27	0.55
6:Zb:107:ARG:HD3	6:Zb:159:LYS:HB3	1.88	0.55
7:b0:205:MET:O	7:b0:211:GLN:NE2	2.40	0.55
7:b9:44:VAL:HG11	7:b9:50:LEU:HB2	1.89	0.55
7:bN:470:LEU:HD23	7:bN:525:VAL:HG21	1.89	0.55
7:cE:617:VAL:HG22	7:cE:622:GLU:HB2	1.89	0.55
7:cH:470:LEU:HD23	7:cH:525:VAL:HG21	1.89	0.55
7:cL:198:ILE:HG23	7:cL:324:PHE:HE2	1.71	0.55
7:dV:456:TYR:HB2	7:dV:504:LYS:HG2	1.88	0.55
7:dW:487:THR:HG21	7:dW:559:MET:HE3	1.89	0.55
8:eU:220:THR:HG22	8:eU:241:GLY:O	2.06	0.55
8:eU:356:ILE:HG21	8:eU:388:GLN:CD	2.32	0.55
8:fA:243:ILE:HG12	8:fA:258:GLY:HA3	1.89	0.55
8:fB:220:THR:HG22	8:fB:241:GLY:O	2.07	0.55
8:fU:537:ASP:OD1	8:fU:537:ASP:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fr:489:GLN:HA	8:fr:620:THR:HG22	1.89	0.55
8:fr:543:THR:OG1	8:fr:576:ASP:OD2	2.24	0.55
8:fr:590:TYR:HB3	8:fr:609:ILE:HD11	1.89	0.55
9:gG:568:ASP:OD1	9:gG:569:GLY:N	2.40	0.55
11:he:93:ALA:O	11:he:100:THR:OG1	2.24	0.55
11:hk:64:ARG:NH1	11:hl:95:GLN:HG3	2.21	0.55
11:hp:62:GLY:O	11:hy:118:ARG:NH2	2.39	0.55
12:iC:273:ASN:OD1	12:iC:273:ASN:N	2.38	0.55
16:o1:220:MET:HE1	16:o1:262:LEU:HD21	1.88	0.55
16:o1:352:ILE:HG21	16:o1:359:LEU:HD12	1.87	0.55
17:q5:178:VAL:HG21	17:q5:223:VAL:HG12	1.87	0.55
17:q7:211:HIS:CD2	17:q7:212:THR:HG22	2.42	0.55
17:q9:229:SER:OG	17:q9:231:ASP:OD1	2.25	0.55
1:S0:77:THR:HG22	1:S0:80:THR:H	1.72	0.55
1:S1:24:ASN:OD1	1:S3:45:ASN:ND2	2.36	0.55
1:S2:295:ILE:HG13	1:S3:301:ARG:HB3	1.88	0.55
1:SA:515:TRP:NE1	1:Sy:429:CYS:SG	2.79	0.55
1:SO:411:ASN:O	1:SO:415:ASN:ND2	2.34	0.55
1:Sx:341:ILE:HG13	1:Sz:341:ILE:HD11	1.89	0.55
1:Sz:11:ASN:OD1	1:Sz:11:ASN:N	2.40	0.55
2:Te:172:GLU:OE2	2:Te:197:TYR:OH	2.20	0.55
3:UM:172:SER:HA	3:UM:177:THR:HA	1.89	0.55
3:Us:109:VAL:HG13	3:Us:178:ILE:HD13	1.89	0.55
3:Ut:14:LEU:O	3:Ut:17:PHE:N	2.28	0.55
3:VM:174:TYR:H	4:XI:340:VAL:HG21	1.70	0.55
4:WK:276:LEU:HD23	4:WK:279:SER:HB2	1.88	0.55
4:Wl:193:VAL:HG13	4:Wl:199:GLU:HB3	1.88	0.55
4:Wl:469:PRO:HA	4:Wl:472:TYR:CZ	2.41	0.55
4:Wm:213:GLY:HA2	4:Wm:221:GLU:HB2	1.87	0.55
4:Wn:214:SER:OG	4:Wn:222:LEU:O	2.22	0.55
4:Wo:104:VAL:HG13	4:Wo:105:ASN:H	1.72	0.55
4:XI:9:ASN:OD1	4:XI:9:ASN:N	2.40	0.55
4:XI:190:ASN:ND2	4:XI:247:PHE:O	2.28	0.55
4:XK:494:ILE:HA	4:XK:500:ALA:HB1	1.87	0.55
4:Xj:285:LEU:HD11	4:Xj:375:PHE:HB2	1.89	0.55
4:Xn:18:TYR:HB2	4:Xn:21:LYS:HB2	1.89	0.55
5:YC:848:LEU:HD23	5:YC:849:GLN:H	1.72	0.55
5:YC:932:ARG:HG3	5:YC:1005:ARG:NH2	2.21	0.55
5:YX:506:MET:HG3	5:YX:507:LYS:H	1.72	0.55
5:Yc:220:LYS:NZ	5:Yc:287:LEU:O	2.35	0.55
6:Za:49:SER:OG	6:Za:50:ASN:OD1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b0:34:GLN:OE1	7:b0:58:THR:OG1	2.25	0.55
7:b3:34:GLN:OE1	7:b3:58:THR:OG1	2.25	0.55
7:b4:26:THR:HA	7:b4:77:ASP:O	2.07	0.55
7:b9:406:LEU:HD13	7:b9:475:ALA:HB2	1.89	0.55
7:bO:629:ILE:O	7:cM:645:THR:OG1	2.24	0.55
7:bO:642:PHE:HE1	7:dT:564:ILE:HD11	1.71	0.55
7:bP:153:LYS:HG2	7:bP:167:TRP:HH2	1.72	0.55
7:bQ:225:LEU:HD12	7:bQ:324:PHE:HB2	1.89	0.55
7:cD:451:ASP:OD1	7:cD:452:GLY:N	2.37	0.55
7:cE:198:ILE:HD11	7:cE:225:LEU:HD11	1.87	0.55
7:cK:406:LEU:HD13	7:cK:475:ALA:HB2	1.88	0.55
7:cM:617:VAL:HG22	7:cM:622:GLU:HB2	1.89	0.55
7:cN:36:GLY:O	7:cN:82:ARG:NH1	2.34	0.55
7:cP:57:PRO:HB3	7:cP:62:ALA:HA	1.89	0.55
7:dW:585:ARG:NH2	17:q4:98:GLN:OE1	2.38	0.55
8:eW:120:ARG:O	8:eW:161:TYR:OH	2.23	0.55
8:f9:508:ARG:NH2	8:f9:576:ASP:O	2.40	0.55
8:fU:135:ALA:C	8:fU:137:ASP:H	2.14	0.55
8:fr:227:ARG:NE	8:fr:235:GLU:OE2	2.35	0.55
8:fr:377:LYS:HD3	8:fr:379:LYS:H	1.71	0.55
8:fr:456:ASN:O	8:fr:634:THR:OG1	2.23	0.55
9:gE:568:ASP:OD1	9:gE:569:GLY:N	2.39	0.55
11:h2:20:LEU:HA	11:hr:54:MET:HE3	1.88	0.55
11:hM:140:LEU:HD11	11:hM:151:GLN:HG2	1.89	0.55
12:iC:255:ALA:O	12:iC:289:ARG:NH2	2.40	0.55
12:iD:219:ILE:HG23	12:iD:222:PHE:HB2	1.89	0.55
16:o2:95:ALA:HB3	16:o2:99:ILE:HA	1.87	0.55
17:q5:165:ASP:OD1	17:q5:166:SER:N	2.39	0.55
1:S0:269:ALA:O	1:S7:291:ARG:NH2	2.27	0.55
1:S4:310:ASN:OD1	1:S4:311:GLY:N	2.39	0.55
1:SO:512:THR:HA	1:SP:442:MET:HA	1.87	0.55
1:Sv:199:VAL:HG21	1:Sv:214:THR:HB	1.87	0.55
1:Sy:340:THR:HG22	1:Sy:341:ILE:HG12	1.88	0.55
1:Sz:453:GLU:OE2	1:Sz:471:THR:N	2.40	0.55
2:T4:43:GLY:O	2:T4:68:GLN:NE2	2.33	0.55
2:T8:50:VAL:O	2:T8:52:ASN:N	2.39	0.55
2:TF:206:CYS:O	2:TF:214:ILE:HA	2.07	0.55
2:TH:50:VAL:C	2:TH:52:ASN:H	2.14	0.55
2:Td:61:ILE:HG13	2:Tf:38:ILE:HG12	1.88	0.55
2:Th:193:HIS:HB3	2:Th:196:GLU:HG3	1.89	0.55
3:VL:40:ILE:HG13	3:VM:168:LEU:HD21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:407:TYR:HE2	4:Wm:403:THR:HB	1.71	0.55
4:Wo:111:ALA:HB2	4:Wo:117:ILE:HG23	1.87	0.55
4:XJ:198:ASN:OD1	4:XK:243:GLN:NE2	2.40	0.55
4:XJ:265:LEU:HB3	4:XJ:281:TYR:HB3	1.89	0.55
4:Xm:206:PHE:HB3	4:Xm:223:VAL:HG13	1.89	0.55
4:Xo:19:LEU:N	5:Yy:992:PRO:O	2.40	0.55
5:Yy:428:GLN:HG3	5:Yy:429:PRO:HD2	1.89	0.55
6:ZZ:138:ASP:OD1	6:ZZ:138:ASP:N	2.38	0.55
6:Zb:175:ASP:O	6:Zb:189:GLU:HA	2.06	0.55
7:b0:365:ARG:HA	7:b0:400:ARG:HH21	1.72	0.55
7:bN:199:GLU:HB2	7:cL:467:TRP:CZ3	2.42	0.55
7:bO:26:THR:HA	7:bO:77:ASP:O	2.06	0.55
7:bQ:134:VAL:HG13	7:bQ:138:GLY:HA2	1.87	0.55
7:bQ:552:ASN:OD1	7:bQ:634:SER:OG	2.25	0.55
7:cG:90:LYS:NZ	7:cG:190:ASP:OD1	2.39	0.55
7:cG:131:ILE:HD11	7:cG:171:ILE:HD13	1.88	0.55
7:cN:151:ILE:O	7:cN:155:LYS:HG2	2.07	0.55
7:cO:256:PRO:HG2	7:cO:339:THR:H	1.70	0.55
7:dS:228:GLY:HA2	7:dS:345:SER:HB3	1.88	0.55
8:fB:433:GLU:HG2	8:fB:655:LEU:HD22	1.87	0.55
9:gG:197:TYR:HB3	9:gG:205:LEU:HD11	1.88	0.55
11:hX:43:ALA:O	11:hX:162:TRP:NE1	2.39	0.55
11:hr:17:ARG:HG3	11:hr:20:LEU:HD12	1.87	0.55
11:ht:136:ASN:O	11:ht:136:ASN:ND2	2.40	0.55
15:m2:89:ASP:CG	16:pA:264:PRO:HG3	2.32	0.55
16:o0:233:SER:O	16:o6:141:HIS:NE2	2.39	0.55
16:o1:9:ALA:HA	16:o1:12:ILE:HD11	1.89	0.55
17:q9:111:ILE:O	17:q9:115:ASN:ND2	2.40	0.55
1:S1:303:GLU:HA	1:S2:309:ALA:HB3	1.88	0.54
1:S2:151:LEU:HD12	1:S2:171:LYS:HE2	1.88	0.54
1:S2:448:ALA:N	1:S3:485:ASN:OD1	2.40	0.54
1:S3:85:LEU:HG	1:S3:86:SER:H	1.72	0.54
1:S4:276:ASP:OD1	1:S6:260:ARG:NH2	2.27	0.54
1:S5:176:ILE:HG12	1:S5:177:ALA:H	1.71	0.54
1:S6:359:TRP:CE2	1:S6:524:LYS:HD3	2.43	0.54
1:SO:176:ILE:HG12	1:SO:177:ALA:H	1.71	0.54
1:SQ:456:ASP:HA	1:SQ:462:ASN:HD21	1.72	0.54
1:Sw:405:ARG:NH2	1:Sw:409:LEU:O	2.40	0.54
2:T1:15:ILE:HA	2:T1:23:ILE:HD13	1.89	0.54
2:T4:121:PRO:HB3	2:T4:140:THR:HG22	1.90	0.54
2:Th:40:ASN:HB3	2:Th:45:GLN:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ti:89:THR:HG22	2:Ti:94:VAL:HG13	1.89	0.54
3:VL:55:ALA:O	3:VL:59:VAL:HG23	2.06	0.54
3:VN:106:THR:HG21	4:XK:269:LYS:HG3	1.89	0.54
3:Vp:69:THR:HG23	3:Vr:73:ASN:HB3	1.90	0.54
3:Vr:9:GLY:C	3:Vt:13:ARG:HD2	2.32	0.54
4:Wk:86:VAL:HG22	4:Wk:87:ASN:H	1.70	0.54
4:Wl:94:ARG:NH1	4:Wl:134:GLU:OE2	2.40	0.54
4:Wo:305:ASN:HD22	4:Wo:308:SER:H	1.54	0.54
4:Xl:285:LEU:HD11	4:Xl:375:PHE:HB2	1.89	0.54
4:Xj:200:LEU:HD23	4:Xj:210:SER:HA	1.88	0.54
4:Xo:194:LYS:NZ	4:Xo:198:ASN:OD1	2.37	0.54
5:YX:872:SER:H	5:YX:894:THR:HG21	1.72	0.54
5:YY:122:PHE:CE1	5:YY:135:VAL:HG21	2.43	0.54
5:YY:200:TYR:OH	5:YY:292:GLU:OE1	2.24	0.54
5:YY:287:LEU:HD12	5:YY:289:PHE:H	1.72	0.54
6:ZD:40:THR:OG1	6:ZD:273:SER:OG	2.25	0.54
6:Zb:147:LEU:HD21	6:Zb:156:LEU:HD12	1.89	0.54
6:ab:132:ARG:HD2	6:ab:191:LEU:HD21	1.88	0.54
6:ac:137:PRO:HG3	6:ac:185:GLY:HA3	1.87	0.54
7:b4:90:LYS:NZ	7:b4:190:ASP:OD1	2.36	0.54
7:b8:57:PRO:HG3	7:b8:65:PHE:CD1	2.42	0.54
7:bN:514:ARG:HH22	7:dS:366:GLU:CD	2.15	0.54
7:bR:44:VAL:HG11	7:bR:50:LEU:HB2	1.89	0.54
7:cD:371:GLN:OE1	7:cD:562:THR:OG1	2.14	0.54
7:cF:28:ALA:HB2	7:cF:370:VAL:HG21	1.87	0.54
7:cF:601:ILE:HG21	7:cF:604:TYR:HB3	1.88	0.54
7:cG:19:VAL:HG21	7:cK:655:THR:HB	1.88	0.54
7:cI:119:LYS:NZ	7:cI:124:ASP:OD1	2.39	0.54
7:cK:505:LEU:HD21	7:cK:525:VAL:HG12	1.89	0.54
7:cP:28:ALA:HB2	7:cP:370:VAL:HG21	1.89	0.54
7:cP:159:GLU:O	7:cP:162:THR:N	2.39	0.54
7:dV:400:ARG:NH1	7:dV:402:ASP:OD1	2.40	0.54
7:dV:620:ARG:NH1	7:dV:622:GLU:OE2	2.36	0.54
7:dV:642:PHE:HE1	15:m6:108:ILE:HD12	1.72	0.54
7:dW:576:ASN:ND2	7:dW:622:GLU:O	2.38	0.54
8:eB:174:ARG:HB3	8:eB:271:GLU:HG2	1.88	0.54
8:fB:172:ILE:HD13	8:fB:273:ILE:HG12	1.89	0.54
8:fR:214:MET:HE1	8:fR:257:ILE:HG23	1.90	0.54
11:hI:95:GLN:HG3	11:hX:64:ARG:NH1	2.23	0.54
11:hI:114:ARG:HG2	11:hI:126:GLU:HG3	1.89	0.54
11:hn:38:ALA:HB3	11:hn:72:THR:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o0:56:ASP:OD1	16:o0:56:ASP:N	2.38	0.54
16:o0:270:ASN:HB3	16:o0:273:LEU:HD13	1.89	0.54
17:q4:167:GLU:O	17:q4:169:CYS:N	2.36	0.54
17:q8:256:GLN:OE1	17:q8:257:ARG:NH1	2.40	0.54
1:S0:160:MET:HG3	1:S0:164:LYS:HB2	1.89	0.54
1:S5:102:THR:HG22	1:S5:105:GLU:HG3	1.89	0.54
1:SA:58:LEU:HD11	1:SA:75:ALA:HB2	1.89	0.54
1:SO:185:GLU:HA	1:SQ:193:LEU:HB2	1.89	0.54
1:Sv:62:THR:HG23	1:Sv:64:GLN:H	1.70	0.54
2:T1:42:PHE:O	2:T1:62:HIS:ND1	2.40	0.54
2:T5:50:VAL:O	2:T5:52:ASN:N	2.40	0.54
2:T5:204:VAL:HG22	2:T5:276:VAL:HG22	1.90	0.54
2:T8:85:HIS:HB2	2:T8:109:PHE:HD1	1.72	0.54
2:TG:168:PHE:HA	2:TH:163:SER:HB3	1.89	0.54
3:Ut:80:GLU:O	3:Ut:187:LYS:NZ	2.32	0.54
3:VL:166:HIS:ND1	3:VN:41:SER:OG	2.26	0.54
3:Vr:7:LYS:HG3	4:Xn:316:ILE:HG21	1.89	0.54
3:Vt:84:GLN:OE1	3:Vt:166:HIS:N	2.40	0.54
4:WI:408:VAL:HG11	4:WK:449:ILE:HD11	1.88	0.54
4:Wj:590:GLN:HG2	4:Wn:590:GLN:HE22	1.72	0.54
4:Wk:491:ASN:OD1	4:Wo:483:GLN:NE2	2.41	0.54
4:Wl:33:LEU:HA	4:Wn:43:PRO:HG3	1.89	0.54
4:Wn:188:VAL:HG23	4:Wn:225:LEU:HD22	1.90	0.54
4:Wn:314:ASN:N	4:Wn:380:ILE:O	2.39	0.54
4:Wo:149:LYS:HA	4:Wo:154:ILE:HG22	1.89	0.54
4:Wo:362:GLU:HG3	4:Wo:367:GLU:H	1.72	0.54
4:XJ:12:ASP:OD2	5:Yc:984:SER:OG	2.19	0.54
4:XJ:200:LEU:HD11	4:XK:241:THR:HG21	1.88	0.54
5:YC:135:VAL:HG12	5:YC:589:LYS:HD3	1.90	0.54
5:YX:894:THR:O	5:YX:894:THR:OG1	2.25	0.54
5:YY:473:TYR:OH	6:aZ:70:ASP:OD2	2.25	0.54
6:ZZ:198:VAL:HG13	6:ZZ:202:ARG:HG3	1.88	0.54
6:ab:147:LEU:HD21	6:ab:156:LEU:HD12	1.89	0.54
7:b3:108:SER:OG	7:b3:109:ASN:OD1	2.21	0.54
7:b3:455:LYS:HB3	7:b3:470:LEU:HD13	1.88	0.54
7:b6:11:LYS:HG2	7:b6:13:THR:HG23	1.89	0.54
7:b7:142:LYS:HD2	7:b7:216:LYS:HA	1.89	0.54
7:b8:432:ALA:HB2	7:b8:440:ASN:HD22	1.71	0.54
7:bP:560:LEU:HD21	7:bP:601:ILE:HD11	1.89	0.54
7:cC:379:ALA:HB2	7:cC:454:TYR:HE2	1.72	0.54
7:cJ:8:ILE:HD11	7:cN:569:LYS:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cL:470:LEU:HD23	7:cL:525:VAL:HG21	1.89	0.54
7:cO:284:ARG:HG2	7:cO:289:ILE:HD13	1.90	0.54
7:cO:453:ASN:HB2	7:cO:506:ALA:HB3	1.89	0.54
7:cP:151:ILE:O	7:cP:155:LYS:HG2	2.06	0.54
8:eW:543:THR:OG1	8:eW:576:ASP:OD1	2.24	0.54
8:fU:22:VAL:HG11	16:pB:95:ALA:HB2	1.89	0.54
8:fr:52:ARG:NE	15:m1:22:ASP:OD2	2.40	0.54
8:fr:388:GLN:O	8:fr:392:ILE:HG22	2.07	0.54
9:gG:25:GLY:HA3	9:gG:73:VAL:HG12	1.89	0.54
9:gH:336:LEU:HB3	9:gH:341:VAL:HG23	1.89	0.54
11:hk:48:LYS:HG3	11:hk:59:ASN:HB3	1.89	0.54
11:ht:23:VAL:HG11	11:ht:39:THR:HG21	1.90	0.54
14:k3:31:ASN:C	14:k3:33:LYS:H	2.14	0.54
17:q8:155:LEU:HD12	17:q9:139:THR:HG21	1.87	0.54
17:q9:219:HIS:O	17:q9:243:PHE:HD2	1.90	0.54
1:S0:45:ASN:N	1:S0:45:ASN:OD1	2.39	0.54
1:SA:349:TRP:NE1	1:SA:353:SER:O	2.41	0.54
2:T3:194:ARG:NH1	2:T3:228:SER:OG	2.39	0.54
2:T6:121:PRO:HB3	2:T6:140:THR:HG22	1.89	0.54
2:Te:82:GLY:O	2:Ti:63:ALA:N	2.40	0.54
2:Tf:14:GLU:HA	2:Tf:17:ASN:HD21	1.73	0.54
3:VL:127:ALA:HA	3:VL:130:ARG:HH11	1.72	0.54
3:Vt:85:THR:HG22	3:Vt:183:ILE:HD12	1.89	0.54
4:WJ:150:GLN:O	4:WJ:152:ASP:N	2.39	0.54
4:WJ:335:ASP:OD1	4:WJ:335:ASP:N	2.39	0.54
4:WK:3:GLN:OE1	4:WK:25:LYS:NZ	2.40	0.54
4:WK:135:LEU:HB3	4:WK:145:TYR:HB3	1.89	0.54
4:Wj:89:TYR:HA	4:Wj:137:TYR:HB3	1.88	0.54
4:Wj:119:GLY:HA2	4:Wj:404:ASP:OD1	2.07	0.54
4:Wj:390:LEU:HD23	4:Wj:393:LEU:HB2	1.90	0.54
4:Wl:314:ASN:HA	4:Wl:380:ILE:HG13	1.89	0.54
4:Wm:206:PHE:HB3	4:Wm:223:VAL:HG13	1.88	0.54
4:Wn:176:ASP:HB3	4:Wn:231:ARG:HG3	1.88	0.54
4:Wo:213:GLY:O	4:Wo:214:SER:OG	2.22	0.54
4:XK:303:PRO:O	4:XK:304:ILE:HG13	2.08	0.54
4:XK:311:VAL:HG22	4:XK:320:LEU:HD22	1.89	0.54
4:Xk:502:ASN:ND2	4:Xk:516:ALA:O	2.40	0.54
4:Xk:556:GLN:HG2	5:Yy:185:LYS:HD3	1.89	0.54
4:Xl:303:PRO:HG2	4:Xl:365:ILE:HG21	1.90	0.54
4:Xm:213:GLY:HA2	4:Xm:221:GLU:HB2	1.88	0.54
5:YX:404:TYR:HB2	5:YX:413:TRP:CE3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:546:GLU:OE1	5:YX:547:ASN:N	2.39	0.54
5:YX:723:VAL:HG22	8:eU:257:ILE:HG12	1.90	0.54
5:Yc:436:THR:HG22	5:Yc:441:VAL:HA	1.89	0.54
5:Yc:925:LEU:HB2	5:Yc:992:PRO:HD2	1.89	0.54
6:ZD:49:SER:OG	6:ZD:50:ASN:OD1	2.22	0.54
6:Zb:47:TRP:N	6:Zb:51:GLU:OE1	2.40	0.54
6:aZ:34:LYS:O	6:aZ:291:LYS:NZ	2.41	0.54
7:b0:118:VAL:HB	7:b0:126:GLU:HB3	1.88	0.54
7:b0:459:ASP:OD2	7:b0:466:ARG:NH1	2.41	0.54
7:b3:264:THR:O	7:b3:266:LYS:N	2.40	0.54
7:b4:110:TYR:CE1	7:b4:171:ILE:HD12	2.42	0.54
7:b4:654:LEU:HD13	7:b9:605:ARG:HD3	1.89	0.54
7:b7:104:SER:HG	7:b7:183:THR:HG1	1.55	0.54
7:bQ:119:LYS:NZ	7:bQ:124:ASP:OD1	2.41	0.54
7:cB:66:MET:HG2	7:cB:468:VAL:HG21	1.88	0.54
7:cE:514:ARG:NH1	7:cF:366:GLU:OE2	2.40	0.54
7:cI:33:PHE:HA	7:cI:61:THR:HG23	1.89	0.54
7:cK:601:ILE:HG21	7:cK:629:ILE:HB	1.89	0.54
7:cL:47:GLU:OE1	7:cL:461:TYR:OH	2.25	0.54
7:cL:240:SER:OG	7:cL:243:ASP:OD1	2.26	0.54
7:dT:635:ILE:O	7:dT:636:ASN:ND2	2.40	0.54
7:dU:271:TYR:HE2	7:dU:304:ILE:HG13	1.73	0.54
7:dZ:609:ASP:OD2	17:q4:257:ARG:NH2	2.41	0.54
8:eW:67:ILE:HG21	8:fs:67:ILE:HG13	1.89	0.54
8:fU:363:PHE:CD2	8:fU:636:ASP:HB2	2.42	0.54
9:gE:184:GLU:HG2	9:gE:203:GLY:HA3	1.89	0.54
11:h1:118:ARG:NH2	11:hr:62:GLY:O	2.40	0.54
11:hJ:118:ARG:NH2	11:hy:62:GLY:O	2.40	0.54
12:iD:255:ALA:HA	12:iD:277:VAL:HG23	1.88	0.54
14:k3:48:TYR:CZ	14:k3:63:ILE:HD11	2.42	0.54
16:o0:141:HIS:NE2	16:o1:233:SER:O	2.39	0.54
16:o0:249:TYR:HB2	16:o0:250:LEU:HD22	1.88	0.54
16:o2:220:MET:HE1	16:o2:262:LEU:HD11	1.89	0.54
17:q3:20:ASN:HD21	17:q7:233:ASP:HA	1.73	0.54
17:q5:233:ASP:HA	17:q8:20:ASN:HD21	1.72	0.54
1:S3:49:ASP:O	1:S3:56:GLY:HA3	2.07	0.54
1:S4:194:ALA:HB2	1:S4:208:TYR:HB3	1.90	0.54
1:SP:399:PHE:CE1	1:SQ:401:ARG:HB3	2.42	0.54
1:Sv:310:ASN:OD1	1:Sv:311:GLY:N	2.40	0.54
2:T1:4:GLN:NE2	2:T3:61:ILE:O	2.34	0.54
2:T2:46:ARG:NH2	2:T2:66:TYR:OH	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:61:ILE:O	2:T3:4:GLN:NE2	2.41	0.54
2:Th:122:LEU:HB3	2:Th:139:VAL:HB	1.89	0.54
3:UN:130:ARG:HE	3:UN:148:ASP:CG	2.16	0.54
3:Up:13:ARG:HD2	3:Ut:9:GLY:C	2.31	0.54
3:Ur:192:THR:HB	3:Ur:219:ALA:HB3	1.89	0.54
3:Vr:142:ALA:H	3:Vr:161:LEU:HD12	1.72	0.54
3:Vs:67:VAL:HG13	3:Vs:217:ARG:HG2	1.88	0.54
3:Vt:148:ASP:OD1	3:Vt:148:ASP:N	2.40	0.54
4:WI:486:VAL:HG12	4:WJ:488:VAL:HG22	1.89	0.54
4:WJ:231:ARG:HG2	4:WJ:232:LEU:H	1.73	0.54
4:WK:469:PRO:HA	4:WK:472:TYR:CZ	2.42	0.54
4:Wk:394:LEU:HD22	4:Wo:395:THR:HA	1.90	0.54
4:Wl:304:ILE:HD13	4:Wl:309:LEU:HG	1.88	0.54
4:Wl:312:ARG:O	4:Wl:382:ASN:N	2.27	0.54
4:XJ:260:ARG:O	4:XJ:261:ARG:NH1	2.37	0.54
4:XK:204:ASP:OD1	4:XK:204:ASP:N	2.39	0.54
4:XK:265:LEU:HG	4:XK:379:ASP:HB2	1.90	0.54
4:Xj:222:LEU:HG	4:Xj:224:PRO:HD2	1.89	0.54
5:YC:81:ARG:HD2	5:YC:94:TRP:HB3	1.90	0.54
5:YC:251:ASP:OD1	5:YC:252:LYS:NZ	2.40	0.54
5:YC:371:ILE:HG23	5:YC:496:SER:HB2	1.89	0.54
5:YC:507:LYS:HE2	5:YC:510:ALA:H	1.73	0.54
5:Yx:482:ASP:N	5:Yx:482:ASP:OD1	2.39	0.54
5:Yy:287:LEU:HD12	5:Yy:289:PHE:H	1.72	0.54
5:Yy:1011:ARG:HH22	5:Yy:1013:LYS:HD3	1.73	0.54
6:Zb:210:VAL:HG21	6:Zb:242:VAL:HG21	1.90	0.54
6:aD:289:ASN:HD21	6:aE:233:GLN:HB2	1.72	0.54
7:b3:104:SER:HB2	7:b3:181:VAL:HB	1.88	0.54
7:b9:41:ILE:HD11	7:b9:361:PHE:HB3	1.90	0.54
7:bN:633:ARG:NH2	7:bO:305:TYR:OH	2.40	0.54
7:bY:639:THR:HB	7:dZ:624:VAL:HG12	1.89	0.54
7:cA:116:ILE:HD11	7:cA:131:ILE:HG13	1.88	0.54
7:cB:57:PRO:HG3	7:cB:65:PHE:CD1	2.41	0.54
7:cB:76:ASN:O	7:cB:76:ASN:ND2	2.37	0.54
7:cH:454:TYR:HB3	7:cH:467:TRP:CD1	2.42	0.54
7:cJ:41:ILE:HD11	7:cJ:361:PHE:HB3	1.88	0.54
7:dV:8:ILE:HG21	15:m5:62:PHE:CZ	2.42	0.54
7:dZ:411:ARG:HG3	7:dZ:415:VAL:HG21	1.89	0.54
9:gG:8:LEU:HD21	9:gH:10:TRP:HB3	1.90	0.54
9:gG:35:HIS:HD2	9:gG:47:ILE:HD12	1.72	0.54
9:gG:397:SER:HB2	9:gH:410:GLU:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hg:19:ASN:OD1	11:hg:19:ASN:N	2.32	0.54
11:hj:147:ASN:ND2	11:ht:63:ASP:OD2	2.41	0.54
11:ht:58:ILE:HD11	11:hu:6:VAL:HG21	1.88	0.54
11:hy:114:ARG:HB3	11:hy:123:VAL:HG13	1.90	0.54
12:iC:191:ASP:OD2	12:iC:196:ASN:ND2	2.40	0.54
12:iF:255:ALA:HA	12:iF:277:VAL:HG23	1.90	0.54
15:m1:19:TRP:CE3	15:m1:20:ASN:HB3	2.43	0.54
17:q4:248:MET:SD	17:q9:175:GLN:NE2	2.80	0.54
17:q9:205:SER:C	17:q9:207:ASN:H	2.16	0.54
1:S3:58:LEU:HD11	1:S3:75:ALA:HB2	1.90	0.54
1:S3:116:ILE:HG23	1:S3:120:LYS:HE2	1.89	0.54
1:SO:315:ILE:HA	1:SQ:308:ILE:HB	1.89	0.54
1:SO:497:ASN:H	1:SO:500:TYR:HB2	1.73	0.54
1:SP:78:PRO:HB3	1:SQ:66:VAL:HA	1.89	0.54
1:SP:310:ASN:OD1	1:SP:311:GLY:N	2.41	0.54
1:Sx:99:ARG:O	1:Sx:115:SER:N	2.30	0.54
1:Sz:8:HIS:ND1	1:Sz:8:HIS:O	2.40	0.54
1:Sz:89:ASN:OD1	1:Sz:90:ALA:N	2.38	0.54
2:T7:50:VAL:O	2:T7:52:ASN:N	2.40	0.54
2:TF:212:ARG:HG3	2:TF:213:LYS:HG3	1.90	0.54
3:UN:39:THR:OG1	3:UN:42:GLN:OE1	2.15	0.54
3:Uq:16:ASP:OD2	3:Uq:45:LYS:NZ	2.35	0.54
3:VL:40:ILE:HA	3:VL:43:LEU:HD12	1.90	0.54
3:VL:173:THR:HA	4:XK:340:VAL:HG22	1.89	0.54
3:VN:67:VAL:HG13	3:VN:217:ARG:HG2	1.89	0.54
4:Wk:9:ASN:HD22	6:Za:200:ILE:HG21	1.73	0.54
4:Wl:507:ASP:OD1	4:Wl:511:ASN:N	2.39	0.54
4:Wm:176:ASP:N	4:Wm:176:ASP:OD1	2.40	0.54
4:Wo:428:ILE:HG21	4:Wo:599:ILE:HD13	1.88	0.54
4:Xl:164:ARG:NH2	4:Xl:243:GLN:OE1	2.41	0.54
4:Xj:279:SER:HB2	4:Xn:326:MET:HE3	1.89	0.54
4:Xl:111:ALA:HB2	4:Xl:117:ILE:HG23	1.89	0.54
4:Xl:314:ASN:HA	4:Xl:380:ILE:HG13	1.88	0.54
4:Xn:181:PHE:HE2	4:Xn:246:THR:HB	1.73	0.54
4:Xn:223:VAL:HB	4:Xn:224:PRO:HD3	1.90	0.54
4:Xo:428:ILE:HG21	4:Xo:599:ILE:HD13	1.89	0.54
5:YC:248:LEU:HD22	5:YC:249:GLY:H	1.72	0.54
5:YC:309:GLU:HG3	5:YC:391:ARG:HH21	1.72	0.54
5:YX:254:PHE:HA	5:YX:297:TYR:H	1.73	0.54
5:YY:380:ILE:HD13	5:YY:429:PRO:HA	1.90	0.54
5:YY:851:ASN:OD1	5:YY:851:ASN:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:447:ASN:HD21	6:aa:73:THR:HG23	1.73	0.54
5:Yy:180:ILE:HG13	5:Yy:219:TRP:HH2	1.71	0.54
6:Za:60:TYR:HB2	6:Zc:9:ARG:HH11	1.72	0.54
6:aa:228:ASN:HB3	6:aa:231:TRP:HD1	1.73	0.54
7:b4:247:GLY:HA2	7:b4:266:LYS:HG3	1.90	0.54
7:b4:406:LEU:HD13	7:b4:475:ALA:HB2	1.89	0.54
7:bQ:485:SER:OG	7:bQ:486:GLN:N	2.41	0.54
7:cB:32:LYS:NZ	7:cB:60:GLU:OE2	2.40	0.54
7:cC:116:ILE:HD11	7:cC:131:ILE:HG13	1.89	0.54
7:cG:12:GLU:HG3	7:cP:548:PHE:CE2	2.43	0.54
7:cI:82:ARG:NH2	7:cI:227:PRO:O	2.35	0.54
7:cI:430:ARG:NH2	7:cI:443:ILE:O	2.40	0.54
7:cJ:467:TRP:CZ3	7:cO:199:GLU:HB2	2.43	0.54
7:cM:505:LEU:HD21	7:cM:525:VAL:HG12	1.90	0.54
7:dU:269:PHE:CE2	7:dU:280:ALA:HB1	2.42	0.54
7:dU:560:LEU:O	7:dU:564:ILE:HG12	2.07	0.54
8:eB:522:LYS:NZ	8:eB:532:GLU:O	2.38	0.54
8:fA:411:PRO:HG2	8:fA:413:TYR:CE1	2.42	0.54
8:fR:127:ARG:NH1	8:fR:271:GLU:OE1	2.39	0.54
8:fU:230:ILE:H	8:fU:230:ILE:HD12	1.73	0.54
8:fW:462:SER:O	8:fW:466:THR:HG23	2.06	0.54
11:hL:20:LEU:HA	11:hz:54:MET:HE3	1.90	0.54
11:hX:19:ASN:OD1	11:hX:19:ASN:N	2.39	0.54
11:hh:99:ILE:O	11:hl:120:ALA:HB2	2.08	0.54
11:hl:22:GLN:HB2	11:hl:116:TYR:HE2	1.72	0.54
12:iC:241:ASN:HD22	12:iD:92:HIS:HB3	1.72	0.54
1:S4:102:THR:HG23	1:S4:104:ASP:H	1.72	0.54
1:S6:167:GLN:HG2	3:Uq:77:VAL:HG23	1.90	0.54
1:S8:49:ASP:O	1:S8:56:GLY:HA3	2.07	0.54
1:SO:47:VAL:N	1:SO:48:PRO:HD2	2.23	0.54
1:SP:118:PRO:HB3	1:SQ:106:ALA:HA	1.89	0.54
1:Sw:417:ASN:O	1:Sw:424:ARG:NH1	2.41	0.54
1:Sx:399:PHE:CE1	1:Sz:401:ARG:HB3	2.43	0.54
2:T1:194:ARG:HG3	2:T1:195:THR:HG23	1.89	0.54
2:T4:168:PHE:HA	2:T6:163:SER:HB3	1.88	0.54
2:T5:44:ASP:HB3	2:T5:47:LYS:HE3	1.89	0.54
2:T5:82:GLY:O	2:T9:63:ALA:N	2.41	0.54
3:UL:141:THR:HG22	3:UN:43:LEU:HD11	1.89	0.54
3:VM:42:GLN:NE2	3:VM:51:ASN:OD1	2.41	0.54
4:WJ:194:LYS:HG2	4:WJ:198:ASN:HA	1.88	0.54
4:WK:289:LYS:HE2	4:WK:370:HIS:HE1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:265:LEU:HG	4:Wk:379:ASP:HB2	1.90	0.54
4:Wm:191:ILE:O	4:Wo:164:ARG:NH2	2.35	0.54
4:Xk:527:LEU:HD11	4:Xm:527:LEU:HD22	1.89	0.54
4:Xn:180:VAL:HG13	4:Xn:181:PHE:H	1.71	0.54
4:Xo:265:LEU:HB3	4:Xo:281:TYR:HB3	1.88	0.54
5:YC:12:ARG:NH1	6:ZE:50:ASN:OD1	2.41	0.54
5:YC:134:TYR:HD2	5:YC:135:VAL:HG22	1.72	0.54
5:YX:52:ASN:ND2	5:YX:53:GLN:OE1	2.41	0.54
5:YY:33:TYR:HB3	6:Za:156:LEU:HD22	1.90	0.54
5:YY:255:TYR:HE1	5:YY:295:ALA:HB3	1.72	0.54
5:Yc:1013:LYS:HE3	5:Yc:1022:PRO:HG3	1.90	0.54
5:Yx:33:TYR:HB3	6:aZ:156:LEU:HD22	1.89	0.54
5:Yy:204:ARG:O	5:Yy:230:GLY:N	2.41	0.54
6:aE:117:ALA:O	6:aE:121:ALA:N	2.41	0.54
6:aa:89:VAL:O	6:aa:246:THR:OG1	2.25	0.54
7:b6:40:GLN:H	7:b6:81:VAL:HG23	1.73	0.54
7:b7:34:GLN:OE1	7:b7:58:THR:OG1	2.22	0.54
7:b9:247:GLY:HA2	7:b9:266:LYS:HG3	1.90	0.54
7:bO:456:TYR:HB3	7:bO:504:LYS:HB3	1.89	0.54
7:bY:332:GLU:OE1	7:bY:332:GLU:N	2.41	0.54
7:cF:193:ILE:HG21	7:cF:223:VAL:HG11	1.89	0.54
7:cJ:76:ASN:O	7:cJ:76:ASN:ND2	2.41	0.54
7:cM:549:ASP:O	7:cM:550:ARG:NE	2.41	0.54
7:cN:159:GLU:HG3	7:cN:167:TRP:HE1	1.73	0.54
7:dS:101:TYR:OH	7:dS:216:LYS:O	2.24	0.54
7:dU:394:VAL:HG11	7:dU:443:ILE:HD12	1.88	0.54
8:eU:155:ARG:HG2	8:eU:161:TYR:CE2	2.43	0.54
8:eU:241:GLY:HA3	8:eU:260:LEU:HA	1.88	0.54
8:fR:52:ARG:HH12	15:m5:25:ARG:HD2	1.72	0.54
8:fW:219:SER:OG	8:fW:256:TYR:O	2.25	0.54
9:gH:214:MET:O	9:gH:218:ASN:ND2	2.30	0.54
11:hX:56:ARG:HB2	17:q4:4:LEU:HD11	1.89	0.54
11:hy:136:ASN:O	11:hy:136:ASN:ND2	2.39	0.54
12:iC:255:ALA:HA	12:iC:277:VAL:HG23	1.89	0.54
12:iF:188:VAL:HG12	12:iF:197:MET:HG2	1.90	0.54
16:pA:267:ALA:HA	16:pB:181:ILE:HG12	1.88	0.54
1:S0:24:ASN:HB2	1:S7:40:SER:HB3	1.90	0.54
1:S4:176:ILE:HG12	1:S4:177:ALA:H	1.72	0.54
1:S4:291:ARG:NH2	1:S6:269:ALA:O	2.40	0.54
1:S5:262:VAL:HG23	1:S7:260:ARG:HD3	1.89	0.54
1:S5:493:GLU:HG3	1:S5:496:ARG:HH21	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:282:ALA:HA	1:Sw:280:ALA:HA	1.90	0.54
1:SO:273:SER:OG	1:SP:257:THR:O	2.25	0.54
1:Sv:291:ARG:NH2	1:Sx:269:ALA:O	2.41	0.54
1:Sx:118:PRO:HB3	1:Sz:106:ALA:HA	1.90	0.54
1:Sz:177:ALA:HB3	1:Sz:178:PRO:HD3	1.88	0.54
2:T1:67:TYR:CD2	2:T1:84:ARG:HB3	2.43	0.54
2:T2:50:VAL:C	2:T2:52:ASN:H	2.15	0.54
2:T2:95:LYS:HE2	2:T2:125:GLN:HB2	1.89	0.54
2:T6:194:ARG:HH21	2:T6:259:ASN:HA	1.72	0.54
2:TH:172:GLU:OE2	2:TH:197:TYR:OH	2.25	0.54
3:Uq:42:GLN:NE2	3:Uq:51:ASN:OD1	2.41	0.54
3:Us:173:THR:HA	4:Wk:339:GLU:HG2	1.90	0.54
3:Uu:117:THR:H	3:Uu:120:MET:HE3	1.73	0.54
4:WJ:314:ASN:HA	4:WJ:380:ILE:HG13	1.89	0.54
4:Wk:49:TRP:O	4:Wo:90:ASN:ND2	2.41	0.54
4:Wl:195:HIS:CE1	4:Wl:232:LEU:HD21	2.43	0.54
4:Xl:87:ASN:HD21	4:XK:439:TYR:HB3	1.73	0.54
4:XJ:12:ASP:OD2	5:Yc:985:GLU:N	2.40	0.54
4:XK:49:TRP:CD1	4:XK:67:SER:HG	2.26	0.54
4:Xk:451:ASP:HA	4:Xk:600:ARG:HH12	1.72	0.54
4:Xl:314:ASN:N	4:Xl:380:ILE:O	2.41	0.54
4:Xm:177:PHE:HB2	4:Xm:230:ILE:HD11	1.89	0.54
5:YC:255:TYR:HE1	5:YC:295:ALA:HB3	1.71	0.54
5:YX:146:LEU:HD13	5:YX:578:PHE:CE1	2.43	0.54
5:YX:474:GLU:HB3	6:Zc:155:LYS:HE2	1.90	0.54
5:YY:908:HIS:NE2	5:YY:911:THR:OG1	2.41	0.54
5:Yx:146:LEU:HD13	5:Yx:578:PHE:CE1	2.41	0.54
5:Yy:807:LEU:HD23	5:Yy:807:LEU:H	1.72	0.54
6:Za:55:GLY:N	6:Zc:5:SER:O	2.35	0.54
6:aZ:9:ARG:HD2	6:ab:60:TYR:CE1	2.43	0.54
7:b3:33:PHE:HA	7:b3:61:THR:HG23	1.89	0.54
7:bP:33:PHE:HA	7:bP:61:THR:HG23	1.90	0.54
7:cB:490:SER:O	7:cB:496:ARG:NH1	2.41	0.54
7:cC:467:TRP:CZ3	7:cL:199:GLU:HB2	2.43	0.54
7:cE:41:ILE:HD11	7:cE:361:PHE:HB3	1.90	0.54
7:cJ:488:TRP:O	7:cJ:552:ASN:ND2	2.41	0.54
7:cK:256:PRO:HG2	7:cK:339:THR:H	1.73	0.54
7:cM:41:ILE:HD11	7:cM:361:PHE:HB3	1.88	0.54
7:cP:202:GLU:OE1	7:cP:203:ALA:N	2.41	0.54
7:dS:8:ILE:HG21	15:m2:62:PHE:CZ	2.42	0.54
7:dV:406:LEU:HD13	7:dV:475:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dW:134:VAL:HG12	7:dW:140:ILE:HA	1.89	0.54
8:fB:119:ASN:OD1	8:fB:159:ASN:ND2	2.34	0.54
8:fR:619:GLN:HG2	8:fR:620:THR:HG23	1.89	0.54
11:hv:83:GLN:HA	11:hv:86:VAL:HG22	1.90	0.54
16:o2:320:ARG:NH2	16:o2:322:ASP:OD2	2.41	0.54
16:o6:323:LYS:HB3	16:o6:339:PRO:HG3	1.88	0.54
17:q5:99:SER:CB	17:q8:215:MET:HE1	2.37	0.54
1:SA:308:ILE:HB	1:Sw:315:ILE:HA	1.90	0.54
1:SO:485:ASN:OD1	1:SQ:448:ALA:N	2.40	0.54
1:SO:514:PRO:O	1:SO:516:ASN:ND2	2.40	0.54
1:Sy:5:THR:HG23	4:Wo:196:ARG:CZ	2.37	0.54
1:Sz:236:VAL:HG21	1:Sz:249:THR:HB	1.90	0.54
2:Te:50:VAL:O	2:Te:52:ASN:N	2.40	0.54
2:Tf:121:PRO:HB3	2:Tf:140:THR:HG22	1.89	0.54
3:Vu:171:TYR:HB2	4:Xm:339:GLU:HB2	1.88	0.54
4:Wk:290:SER:HA	4:Wk:371:PHE:N	2.18	0.54
4:Wm:313:PHE:HA	4:Wm:381:ILE:HA	1.90	0.54
4:Wn:111:ALA:HB2	4:Wn:117:ILE:HG23	1.88	0.54
4:Wo:130:PHE:HB3	4:Wo:151:ILE:HG23	1.90	0.54
4:XI:62:ALA:HB1	4:XI:82:PRO:HG3	1.88	0.54
4:XI:180:VAL:HG22	4:XI:181:PHE:H	1.71	0.54
4:XI:557:TYR:OH	4:XJ:556:GLN:OE1	2.23	0.54
4:Xk:53:ASN:O	4:Xk:56:SER:OG	2.23	0.54
5:YY:987:ARG:HE	5:YY:988:LYS:HG3	1.72	0.54
5:Yy:159:ASP:HA	5:Yy:593:GLU:HA	1.89	0.54
7:b6:620:ARG:HB2	7:b6:622:GLU:HG3	1.90	0.54
7:b7:454:TYR:HB3	7:b7:467:TRP:HD1	1.73	0.54
7:bP:303:ASP:OD1	7:bP:304:ILE:N	2.40	0.54
7:cD:40:GLN:H	7:cD:81:VAL:HG23	1.71	0.54
7:cF:256:PRO:HG2	7:cF:339:THR:H	1.72	0.54
7:cF:494:TYR:CE2	7:cG:569:LYS:HD3	2.43	0.54
7:cI:70:ASN:OD1	7:cI:457:GLN:NE2	2.36	0.54
7:cI:135:ASP:OD1	7:cI:136:ALA:N	2.40	0.54
7:cL:90:LYS:NZ	7:cL:190:ASP:OD1	2.41	0.54
7:dU:486:GLN:NE2	7:dU:489:MET:SD	2.81	0.54
7:dZ:400:ARG:NH1	7:dZ:402:ASP:OD1	2.41	0.54
7:dZ:490:SER:O	7:dZ:496:ARG:NH1	2.40	0.54
8:f9:361:GLN:NE2	8:f9:635:ARG:O	2.40	0.54
8:fB:560:SER:HA	8:fB:588:LYS:HE2	1.89	0.54
8:fS:619:GLN:HG2	8:fS:620:THR:HG23	1.88	0.54
8:fU:557:PRO:HB2	8:fU:586:ARG:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fs:150:ASP:OD1	8:fs:150:ASP:N	2.41	0.54
8:fs:200:TYR:HB2	8:fs:269:VAL:HG13	1.89	0.54
8:fs:275:THR:OG1	8:fs:276:ASN:N	2.40	0.54
9:gG:232:ASN:HB2	9:gH:407:PRO:HB3	1.90	0.54
11:hf:54:MET:HE2	11:hk:1:MET:HE1	1.89	0.54
11:hh:63:ASP:OD2	11:hn:147:ASN:ND2	2.41	0.54
16:o1:240:SER:O	16:o1:240:SER:OG	2.26	0.54
16:pA:47:ASP:HB2	16:pA:56:ASP:HB2	1.88	0.54
1:S1:212:PRO:HG3	1:S2:199:VAL:HG12	1.90	0.54
1:S2:451:PHE:HZ	1:S2:471:THR:HG22	1.73	0.54
1:SO:158:THR:OG1	1:SO:159:ALA:N	2.41	0.54
1:Sv:100:TYR:OH	1:Sx:113:GLU:O	2.19	0.54
2:T6:166:SER:O	2:T6:171:LYS:NZ	2.35	0.54
2:Td:50:VAL:HG12	2:Td:51:ALA:H	1.72	0.54
2:Te:53:GLY:HA3	2:Tg:7:LYS:HE2	1.89	0.54
2:Te:98:ILE:O	2:Te:127:ILE:HG12	2.08	0.54
2:Th:194:ARG:NH1	2:Th:228:SER:OG	2.40	0.54
3:Vt:4:LEU:HD13	4:Xj:356:TYR:HE2	1.73	0.54
4:WI:26:ILE:HG13	4:WJ:30:PHE:CE2	2.43	0.54
4:WI:102:TRP:CZ3	4:WI:131:SER:HB2	2.43	0.54
4:WI:344:VAL:HG12	4:WI:349:TRP:H	1.72	0.54
4:Wj:192:ARG:NH2	4:Wl:245:GLU:OE1	2.41	0.54
4:Wn:181:PHE:HE2	4:Wn:246:THR:HB	1.73	0.54
4:Wo:135:LEU:HB3	4:Wo:145:TYR:HB3	1.90	0.54
4:Xk:194:LYS:HG2	4:Xk:198:ASN:HA	1.89	0.54
4:Xm:344:VAL:HG12	4:Xm:349:TRP:H	1.73	0.54
4:Xn:213:GLY:O	4:Xn:214:SER:OG	2.26	0.54
5:YX:176:ILE:HD13	5:YX:176:ILE:H	1.71	0.54
5:Yy:932:ARG:HG3	5:Yy:1005:ARG:NH2	2.22	0.54
6:ZZ:115:ASN:HA	6:ZZ:121:ALA:HA	1.89	0.54
7:b4:444:SER:OG	7:b4:543:SER:OG	2.19	0.54
7:bN:440:ASN:ND2	7:bN:442:ASN:HB2	2.23	0.54
7:bQ:400:ARG:NH1	7:bQ:402:ASP:OD1	2.41	0.54
7:cB:11:LYS:HE3	7:cB:13:THR:HG21	1.90	0.54
7:cB:655:THR:HB	7:cF:19:VAL:HG21	1.88	0.54
7:cJ:215:LYS:HB2	7:cJ:329:ASN:HD22	1.73	0.54
7:cK:612:ASN:HB3	7:cK:624:VAL:HG23	1.90	0.54
7:cM:46:ASN:OD1	7:cM:47:GLU:N	2.41	0.54
7:cM:406:LEU:HD13	7:cM:475:ALA:HB2	1.90	0.54
7:cN:617:VAL:HG22	7:cN:622:GLU:HB2	1.90	0.54
7:cP:383:LEU:HD11	7:cP:436:TYR:HD1	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dV:485:SER:HB2	16:o1:217:GLU:HG3	1.90	0.54
8:eW:45:ASP:O	8:eW:47:ASP:N	2.41	0.54
8:f9:76:TYR:O	8:f9:82:THR:OG1	2.25	0.54
8:fB:113:THR:O	8:fB:113:THR:OG1	2.26	0.54
8:fB:194:ARG:NH2	8:fB:228:GLU:OE1	2.39	0.54
12:iC:241:ASN:OD1	12:iC:244:LYS:HB2	2.08	0.54
12:iF:199:ASP:OD1	12:iF:200:TYR:N	2.40	0.54
16:o6:142:ARG:HH11	16:o6:201:GLU:HG2	1.71	0.54
17:q3:164:MET:HE2	17:q5:17:GLN:HG2	1.88	0.54
17:q5:246:ARG:NH1	17:q8:145:SER:OG	2.41	0.54
1:S0:66:VAL:HA	1:S7:78:PRO:HB3	1.89	0.54
1:S0:424:ARG:O	1:S5:504:ARG:NH2	2.33	0.54
1:S1:330:ARG:NH2	1:S1:336:GLU:OE2	2.38	0.54
1:S2:340:THR:HG22	1:S2:341:ILE:HG12	1.88	0.54
1:S4:21:THR:HG21	1:S8:14:ARG:HH21	1.73	0.54
1:S8:4:ASN:OD1	1:S8:15:TYR:OH	2.23	0.54
1:SA:66:VAL:HA	1:Sy:78:PRO:HB3	1.90	0.54
1:SQ:302:ILE:HG22	1:SQ:304:ASP:H	1.73	0.54
1:Sv:176:ILE:HG12	1:Sv:177:ALA:H	1.73	0.54
1:Sv:444:TYR:HB2	1:Sz:486:ASP:HB2	1.89	0.54
1:Sx:291:ARG:NH2	1:Sz:269:ALA:O	2.41	0.54
1:Sy:310:ASN:OD1	1:Sy:311:GLY:N	2.39	0.54
3:Uq:127:ALA:HA	3:Uq:130:ARG:HH11	1.72	0.54
3:Ur:199:GLN:HG2	3:Ur:201:VAL:HG23	1.89	0.54
3:Us:4:LEU:O	4:Wo:318:GLN:NE2	2.41	0.54
3:Ut:7:LYS:HB3	4:Wj:318:GLN:NE2	2.22	0.54
3:VL:74:LYS:HG3	3:VN:70:ILE:HD11	1.90	0.54
3:VM:127:ALA:HA	3:VM:130:ARG:HH11	1.72	0.54
4:WI:53:ASN:O	4:WI:56:SER:OG	2.25	0.54
4:WI:279:SER:HB2	4:WK:326:MET:HB2	1.90	0.54
4:WK:396:LYS:HG3	4:WK:399:ILE:HD11	1.89	0.54
4:Wk:116:THR:HG22	4:Wk:121:ALA:HB2	1.90	0.54
4:Wk:416:ILE:HG23	4:Wo:472:TYR:HA	1.90	0.54
4:Wl:11:VAL:HG22	4:Wn:20:ARG:HG2	1.90	0.54
4:Wl:20:ARG:HH12	4:Wl:24:ILE:HD12	1.72	0.54
4:Wm:397:ASP:OD1	4:Wm:398:GLU:N	2.41	0.54
4:Wo:323:THR:HG23	4:Wo:359:GLU:HB2	1.89	0.54
4:XJ:299:ILE:HG22	4:XJ:301:GLY:H	1.73	0.54
4:Xj:161:ASN:HB2	4:Xj:248:MET:SD	2.47	0.54
4:Xm:153:LYS:HG2	4:Xm:154:ILE:HG23	1.89	0.54
5:YX:326:VAL:HG11	5:YX:413:TRP:HZ2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:731:SER:OG	8:fA:333:ARG:NH2	2.41	0.54
5:Yx:18:ALA:HA	5:Yx:102:THR:HB	1.90	0.54
5:Yx:853:ASP:C	5:Yx:855:ILE:H	2.16	0.54
5:Yy:310:ALA:HB3	5:Yy:321:VAL:HG13	1.90	0.54
6:aa:216:LEU:HD23	6:aa:236:PHE:HB3	1.88	0.54
7:b0:99:ILE:HD12	7:b0:150:ILE:HG21	1.90	0.54
7:b4:198:ILE:HG23	7:b4:324:PHE:HE2	1.72	0.54
7:b4:639:THR:HB	7:b9:624:VAL:HG12	1.89	0.54
7:b9:432:ALA:HB2	7:b9:440:ASN:HD22	1.73	0.54
7:bN:564:ILE:HD11	7:cL:642:PHE:CE1	2.43	0.54
7:bQ:147:THR:O	7:bQ:147:THR:OG1	2.26	0.54
7:cF:454:TYR:HB3	7:cF:467:TRP:CD1	2.43	0.54
7:cG:639:THR:HB	7:cH:624:VAL:HG12	1.90	0.54
7:cG:654:LEU:HD13	7:cH:605:ARG:HD3	1.89	0.54
7:cK:454:TYR:HB3	7:cK:467:TRP:HD1	1.73	0.54
7:cL:206:THR:HA	7:cL:211:GLN:HE21	1.73	0.54
7:cN:110:TYR:H	7:cN:138:GLY:HA3	1.72	0.54
7:dT:377:SER:O	7:dT:377:SER:OG	2.24	0.54
8:eU:348:PHE:CD1	8:fR:252:LEU:HD23	2.43	0.54
8:f9:103:LYS:HD2	8:f9:319:PRO:HD3	1.90	0.54
8:fR:53:LEU:HD22	15:m5:23:VAL:HG23	1.89	0.54
8:fS:214:MET:HE1	8:fS:257:ILE:HG23	1.89	0.54
9:gG:183:ASP:OD2	9:gG:279:ASN:ND2	2.41	0.54
11:he:140:LEU:HD13	11:he:153:PHE:HB3	1.89	0.54
11:hk:19:ASN:OD1	11:hk:19:ASN:N	2.30	0.54
11:hn:19:ASN:OD1	11:hn:19:ASN:N	2.29	0.54
12:iF:203:MET:HA	12:iF:206:GLN:HE21	1.72	0.54
14:k8:44:ARG:NH1	15:m5:116:PRO:O	2.41	0.54
14:k8:112:HIS:HB3	14:k8:150:LEU:HD13	1.90	0.54
16:pA:252:ASP:O	16:pA:254:TYR:N	2.40	0.54
17:q5:257:ARG:NH2	17:q5:260:GLU:OE2	2.30	0.54
1:S0:21:THR:HG21	1:S7:14:ARG:HH21	1.72	0.53
1:S1:97:LEU:HB3	1:S2:95:TYR:HB3	1.88	0.53
1:S5:514:PRO:O	1:S5:516:ASN:ND2	2.40	0.53
1:SA:55:LYS:HB3	1:Sy:57:ILE:HG22	1.89	0.53
1:SA:340:THR:O	1:Sy:359:TRP:NE1	2.34	0.53
1:SA:519:LEU:O	1:Sw:403:SER:N	2.34	0.53
1:SQ:349:TRP:NE1	1:SQ:353:SER:O	2.41	0.53
1:Sv:330:ARG:NH2	1:Sv:336:GLU:OE2	2.36	0.53
1:Sy:49:ASP:O	1:Sy:57:ILE:N	2.35	0.53
2:T2:44:ASP:O	2:T2:59:GLN:NE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T7:1:MET:HG2	2:T7:70:HIS:CD2	2.43	0.53
2:TF:28:GLY:O	2:TF:32:ASN:ND2	2.29	0.53
2:TG:199:MET:HG2	2:TG:282:GLN:HB3	1.88	0.53
2:Tf:40:ASN:OD1	2:Tf:59:GLN:NE2	2.32	0.53
2:Tf:194:ARG:HH21	2:Tf:259:ASN:HA	1.73	0.53
3:Up:144:ASN:OD1	3:Ut:32:ARG:NH1	2.41	0.53
3:Ut:39:THR:OG1	3:Ut:42:GLN:OE1	2.21	0.53
3:Ut:47:PHE:HE2	3:Ut:51:ASN:HB3	1.73	0.53
4:WI:279:SER:HB2	4:WK:326:MET:HE3	1.88	0.53
4:WJ:503:ASN:ND2	4:WJ:519:THR:O	2.40	0.53
4:Wj:529:ASN:OD1	4:Wn:577:ASN:ND2	2.39	0.53
4:Wo:49:TRP:CG	4:Wo:67:SER:HG	2.26	0.53
4:Wo:214:SER:OG	4:Wo:222:LEU:O	2.26	0.53
4:Xm:503:ASN:ND2	4:Xm:519:THR:O	2.41	0.53
5:YC:521:ASN:OD1	5:YC:521:ASN:N	2.40	0.53
5:YX:185:LYS:HE2	5:YX:206:GLN:HE22	1.72	0.53
5:YX:426:ARG:HH11	5:YX:490:PHE:HZ	1.54	0.53
5:YX:746:PHE:O	5:YX:750:VAL:HG13	2.08	0.53
5:YY:914:ASN:HB2	6:Za:327:GLU:HB3	1.90	0.53
5:YY:1011:ARG:HH22	5:YY:1013:LYS:HD3	1.73	0.53
5:Yy:33:TYR:HB3	6:aa:156:LEU:HD22	1.90	0.53
5:Yy:324:ASP:HB2	5:Yy:357:ILE:HG22	1.90	0.53
5:Yy:435:SER:HB3	5:Yy:512:PRO:HA	1.90	0.53
5:Yy:523:ARG:HB2	5:Yy:535:VAL:HG13	1.90	0.53
6:aE:249:PHE:HB2	6:aE:330:ILE:HB	1.90	0.53
7:b4:332:GLU:OE1	7:b4:332:GLU:N	2.31	0.53
7:cA:198:ILE:HG23	7:cA:324:PHE:HE2	1.73	0.53
7:cD:485:SER:OG	7:cD:486:GLN:N	2.40	0.53
7:cL:159:GLU:HG3	7:cL:167:TRP:HE1	1.72	0.53
7:dT:171:ILE:H	7:dT:171:ILE:HD13	1.73	0.53
7:dV:432:ALA:HB2	7:dV:440:ASN:HD22	1.73	0.53
7:dW:642:PHE:HE1	15:m1:108:ILE:HD12	1.72	0.53
8:fU:72:ASN:HB2	14:k3:28:ILE:HG22	1.90	0.53
11:hJ:43:ALA:O	11:hJ:162:TRP:NE1	2.37	0.53
11:ho:17:ARG:HG3	11:ho:20:LEU:HD12	1.90	0.53
11:hw:64:ARG:NH1	11:hx:95:GLN:HG3	2.22	0.53
14:k7:94:TYR:O	14:k7:98:ILE:HG13	2.06	0.53
16:pA:314:CYS:HA	16:pA:350:GLU:HA	1.90	0.53
17:q8:101:LEU:HD23	17:q9:253:VAL:HG11	1.90	0.53
1:S0:196:VAL:HG22	1:S0:214:THR:HG22	1.89	0.53
1:S2:481:SER:OG	1:S3:449:GLY:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S5:220:SER:OG	1:S5:226:GLY:O	2.26	0.53
1:SA:527:GLU:OXT	1:Sw:339:ARG:NH2	2.41	0.53
1:SO:51:SER:HB3	1:SO:54:THR:HB	1.90	0.53
1:SP:192:GLN:NE2	1:SQ:185:GLU:O	2.40	0.53
1:Sv:448:ALA:N	1:Sx:485:ASN:OD1	2.42	0.53
3:UN:85:THR:HG22	3:UN:183:ILE:HD12	1.90	0.53
3:Ut:102:GLY:N	3:Ut:118:THR:OG1	2.41	0.53
3:VL:114:VAL:HG21	3:VL:129:VAL:HG22	1.90	0.53
3:VM:142:ALA:H	3:VM:161:LEU:HD12	1.74	0.53
3:Vs:9:GLY:C	3:Vu:13:ARG:HD2	2.33	0.53
3:Vt:47:PHE:CZ	3:Vt:49:GLU:HB2	2.44	0.53
3:Vu:4:LEU:HD13	4:Xk:356:TYR:HE2	1.73	0.53
4:WK:311:VAL:HG22	4:WK:320:LEU:HD22	1.89	0.53
4:Wl:188:VAL:HG11	4:Wn:129:ARG:HE	1.72	0.53
4:Wm:201:TYR:HB3	4:Wo:166:GLU:HG2	1.89	0.53
4:Wm:496:ASP:HB3	4:Wm:500:ALA:HB2	1.91	0.53
4:XI:95:ALA:HB3	4:XI:133:LEU:HB2	1.89	0.53
4:XK:314:ASN:N	4:XK:380:ILE:O	2.40	0.53
4:Xj:310:GLU:OE2	4:Xl:258:TYR:OH	2.15	0.53
4:Xo:329:PHE:HB3	4:Xo:332:VAL:HB	1.90	0.53
5:YC:81:ARG:HG2	5:YC:94:TRP:HE3	1.73	0.53
5:YC:925:LEU:N	5:YC:926:PRO:HD3	2.23	0.53
7:b0:617:VAL:HG22	7:b0:622:GLU:HB2	1.89	0.53
7:b4:103:ILE:HD13	7:b4:182:ILE:HG22	1.90	0.53
7:bN:134:VAL:HG13	7:bN:138:GLY:HA2	1.91	0.53
7:bO:311:ILE:HB	7:bO:327:ALA:HB2	1.90	0.53
7:bO:427:VAL:O	7:bO:431:THR:OG1	2.22	0.53
7:bR:117:THR:HG23	7:bR:127:THR:HG22	1.90	0.53
7:cA:253:PRO:HG2	7:cA:255:TYR:HE1	1.73	0.53
7:cC:264:THR:O	7:cC:266:LYS:N	2.41	0.53
7:cC:526:THR:OG1	7:cC:527:GLY:N	2.40	0.53
7:cF:131:ILE:HD13	7:cF:140:ILE:HG21	1.90	0.53
7:cG:254:ILE:HD11	7:cG:261:ARG:HB2	1.89	0.53
7:cO:486:GLN:NE2	11:hK:11:GLU:OE1	2.42	0.53
7:cP:225:LEU:HD12	7:cP:324:PHE:HB2	1.89	0.53
7:dT:332:GLU:OE1	7:dT:332:GLU:N	2.28	0.53
7:dU:116:ILE:HG12	7:dU:171:ILE:HG22	1.91	0.53
7:dV:455:LYS:HG3	7:dV:502:VAL:HG13	1.91	0.53
7:dW:29:LEU:O	7:dW:80:VAL:HA	2.08	0.53
7:dZ:332:GLU:H	7:dZ:332:GLU:CD	2.15	0.53
8:fB:414:LEU:HD23	8:fB:486:ARG:NH2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fS:215:VAL:HG21	8:fS:252:LEU:C	2.33	0.53
8:fW:595:ILE:HG22	8:fW:602:ILE:HA	1.89	0.53
11:hn:136:ASN:O	11:hn:136:ASN:ND2	2.41	0.53
14:k8:31:ASN:OD1	14:k8:31:ASN:N	2.41	0.53
16:o2:340:SER:HB3	17:q4:189:ARG:HH11	1.73	0.53
17:q4:216:PHE:HB2	17:q4:218:MET:HG3	1.88	0.53
1:S1:401:ARG:HG2	1:S3:518:SER:HA	1.90	0.53
1:S4:39:ILE:HD12	1:S6:39:ILE:HG21	1.90	0.53
1:S6:397:GLY:O	1:S8:401:ARG:NH2	2.33	0.53
1:S8:181:THR:O	1:S8:190:VAL:HG22	2.07	0.53
1:SO:233:GLN:HG2	4:XI:348:THR:HG22	1.90	0.53
1:Sw:233:GLN:HG2	4:Wj:348:THR:HG22	1.91	0.53
1:Sx:349:TRP:HB2	1:Sx:522:ILE:HD13	1.89	0.53
1:Sz:101:SER:O	1:Sz:120:LYS:NZ	2.38	0.53
2:T4:102:GLU:HA	2:T4:153:SER:HB3	1.91	0.53
2:T5:63:ALA:HB3	2:T7:83:THR:HA	1.91	0.53
2:T5:219:ILE:HG21	2:T5:254:PHE:CE1	2.44	0.53
2:T8:46:ARG:NH2	2:T8:66:TYR:OH	2.41	0.53
2:Ti:85:HIS:HB2	2:Ti:109:PHE:HD1	1.72	0.53
3:Us:72:THR:OG1	3:Us:214:HIS:ND1	2.36	0.53
3:Ut:193:TRP:HB3	3:Ut:215:PHE:HB3	1.90	0.53
3:Vq:200:THR:N	3:Vs:204:ASP:OD1	2.39	0.53
4:WI:62:ALA:HA	4:WI:68:TYR:HE2	1.73	0.53
4:Wl:260:ARG:O	4:Wl:261:ARG:NH1	2.36	0.53
4:Wn:153:LYS:HD2	4:Wn:153:LYS:H	1.73	0.53
4:XJ:110:VAL:HG22	4:XJ:123:PRO:HB3	1.91	0.53
4:Xj:18:TYR:CZ	4:Xj:21:LYS:HG2	2.43	0.53
4:Xj:241:THR:HG21	4:Xn:200:LEU:HD11	1.90	0.53
4:Xm:260:ARG:O	4:Xm:261:ARG:NH1	2.38	0.53
4:Xo:20:ARG:HH12	4:Xo:24:ILE:HD12	1.74	0.53
4:Xo:266:LEU:HB2	4:Xo:271:THR:HG23	1.90	0.53
5:Yc:404:TYR:CD2	5:Yc:415:ARG:HB3	2.44	0.53
5:Yx:546:GLU:OE1	5:Yx:547:ASN:N	2.41	0.53
6:Zc:19:GLU:OE2	6:Zc:23:ASN:ND2	2.41	0.53
6:aZ:51:GLU:HA	6:aZ:56:PHE:CE2	2.44	0.53
6:aZ:89:VAL:HG11	6:aZ:248:ARG:HD2	1.91	0.53
7:b0:109:ASN:H	7:b0:137:ASP:HB2	1.72	0.53
7:b0:444:SER:OG	7:b0:543:SER:OG	2.20	0.53
7:b0:654:LEU:HD13	7:cI:605:ARG:HD3	1.90	0.53
7:b3:406:LEU:HD13	7:b3:475:ALA:HB2	1.90	0.53
7:b9:454:TYR:HB2	7:b9:506:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bR:638:ILE:HG12	7:dW:623:PHE:HB3	1.89	0.53
7:bY:521:ALA:HB1	7:bY:541:ALA:HA	1.91	0.53
7:cA:137:ASP:OD1	7:cA:137:ASP:N	2.39	0.53
7:cC:379:ALA:HA	7:cC:411:ARG:HB2	1.91	0.53
7:cE:40:GLN:H	7:cE:81:VAL:HG23	1.73	0.53
7:cM:110:TYR:CE1	7:cM:171:ILE:HD12	2.43	0.53
7:cM:510:ARG:HG2	7:cM:511:GLN:H	1.73	0.53
7:cO:36:GLY:O	7:cO:82:ARG:NH1	2.39	0.53
7:dS:332:GLU:N	7:dS:332:GLU:OE1	2.37	0.53
7:dV:455:LYS:HD2	7:dV:502:VAL:HG22	1.90	0.53
7:dZ:246:LYS:HB2	7:dZ:250:ALA:HB2	1.90	0.53
7:dZ:406:LEU:HD13	7:dZ:475:ALA:HB2	1.89	0.53
8:eU:362:THR:HG23	8:eU:374:ILE:HG23	1.88	0.53
8:fW:281:ASN:HD21	8:fW:316:GLY:H	1.57	0.53
8:fr:141:ASN:O	8:fr:141:ASN:ND2	2.37	0.53
8:fs:80:MET:HG2	8:fs:81:ARG:H	1.73	0.53
9:gH:525:ASN:OD1	9:gH:525:ASN:N	2.42	0.53
11:hL:55:ASN:ND2	17:q7:21:MET:SD	2.82	0.53
11:hv:136:ASN:O	11:hv:136:ASN:ND2	2.40	0.53
15:m6:22:ASP:OD1	15:m6:22:ASP:N	2.42	0.53
1:S4:127:ASN:O	1:S4:131:THR:HG23	2.08	0.53
1:S4:161:THR:H	1:S4:164:LYS:HE3	1.74	0.53
1:S4:469:VAL:HG11	1:S6:482:TYR:CE2	2.44	0.53
1:S5:46:GLY:O	1:S5:48:PRO:HD3	2.07	0.53
1:S6:102:THR:HG23	1:S6:104:ASP:H	1.73	0.53
1:S7:240:ASN:HB3	1:S7:243:VAL:HG22	1.89	0.53
1:SP:246:THR:N	1:SP:249:THR:OG1	2.31	0.53
1:SP:446:LYS:N	1:SQ:503:ASN:OD1	2.32	0.53
1:Sv:212:PRO:HG3	1:Sx:199:VAL:HG12	1.91	0.53
1:Sw:36:ILE:O	1:Sw:40:SER:OG	2.24	0.53
1:Sy:118:PRO:HA	1:Sy:121:PHE:HB3	1.89	0.53
1:Sz:175:GLN:HB3	1:Sz:187:ASP:HB2	1.90	0.53
2:T2:212:ARG:HG3	2:T2:213:LYS:HG3	1.88	0.53
2:T4:63:ALA:O	2:T6:84:ARG:NE	2.41	0.53
2:T6:133:VAL:HG21	2:T6:137:LEU:HD13	1.89	0.53
2:T9:50:VAL:C	2:T9:52:ASN:H	2.16	0.53
2:TH:110:ILE:HG22	2:TH:145:LYS:HG3	1.90	0.53
3:Ut:67:VAL:HA	3:Ut:217:ARG:HG2	1.91	0.53
3:Uu:171:TYR:HB2	4:Wm:339:GLU:HB2	1.91	0.53
3:Vs:109:VAL:HG13	3:Vs:178:ILE:HD13	1.90	0.53
4:Wm:463:ALA:HB2	4:Wo:459:ILE:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:258:TYR:HE1	4:XJ:384:THR:HG23	1.73	0.53
4:XK:103:ASN:HB2	4:XK:129:ARG:HB3	1.90	0.53
4:Xj:49:TRP:O	4:Xn:90:ASN:ND2	2.42	0.53
4:Xl:507:ASP:OD1	4:Xl:511:ASN:N	2.40	0.53
4:Xo:18:TYR:HB2	4:Xo:21:LYS:HB2	1.90	0.53
5:YX:646:ARG:HD2	5:YX:673:GLN:HG2	1.90	0.53
5:Yc:584:GLY:HA2	5:Yc:600:PHE:HB2	1.90	0.53
5:Yx:174:HIS:N	5:Yx:508:TYR:OH	2.42	0.53
5:Yx:334:ALA:HB1	5:Yx:348:ARG:HB3	1.91	0.53
5:Yy:929:TYR:O	5:Yy:931:ASP:N	2.41	0.53
6:ZD:92:ARG:NH2	6:ZD:94:ASP:OD2	2.39	0.53
6:ZE:28:ILE:HG22	6:ZE:83:PRO:HG3	1.89	0.53
6:ZZ:275:ILE:HG12	6:ZZ:309:MET:HB3	1.90	0.53
6:ab:137:PRO:HG3	6:ab:185:GLY:HA3	1.90	0.53
7:b0:455:LYS:HG3	7:b0:502:VAL:HG13	1.90	0.53
7:b7:76:ASN:O	7:b7:76:ASN:ND2	2.42	0.53
7:bN:57:PRO:HA	7:bN:61:THR:HB	1.90	0.53
7:bO:18:THR:HG23	7:bO:48:VAL:HG21	1.89	0.53
7:bR:119:LYS:HG3	7:bR:168:THR:HG23	1.91	0.53
7:cG:215:LYS:HB2	7:cG:329:ASN:HD22	1.73	0.53
7:cH:118:VAL:HB	7:cH:126:GLU:HB3	1.88	0.53
8:eB:507:ASP:OD1	8:eB:545:ARG:NH1	2.41	0.53
8:eU:340:VAL:O	8:eU:341:THR:OG1	2.23	0.53
8:f9:104:SER:O	8:f9:316:GLY:HA2	2.09	0.53
8:f9:513:ASN:OD1	8:f9:514:THR:N	2.42	0.53
8:fA:148:ARG:HD2	8:fA:168:ALA:HB2	1.91	0.53
8:fU:318:ASP:OD1	8:fU:318:ASP:N	2.40	0.53
8:fW:392:ILE:HD13	8:fW:408:ILE:HG12	1.91	0.53
8:fs:202:ASP:OD1	8:fs:267:THR:N	2.41	0.53
8:fs:372:ALA:HB2	8:fs:404:ILE:HD11	1.90	0.53
8:fs:543:THR:HG22	8:fs:552:LYS:H	1.74	0.53
9:gH:232:ASN:HB3	9:gH:233:PRO:HD3	1.91	0.53
11:hL:82:ARG:NH1	11:hL:138:GLY:HA2	2.18	0.53
11:hk:8:ARG:HG2	11:hl:31:ASN:HB3	1.90	0.53
11:hl:23:VAL:HG11	11:hl:39:THR:HG21	1.89	0.53
11:hu:100:THR:OG1	11:hu:101:GLY:N	2.41	0.53
11:hy:69:TRP:HB2	11:hy:159:LEU:HD23	1.91	0.53
11:hy:140:LEU:HD13	11:hy:153:PHE:HB3	1.90	0.53
14:k8:4:THR:OG1	16:o1:78:ARG:NE	2.41	0.53
16:o1:78:ARG:HB3	16:o1:107:SER:HB2	1.90	0.53
1:S0:527:GLU:O	1:S5:339:ARG:NE	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:289:GLN:N	1:S1:294:GLN:OE1	2.42	0.53
1:S1:417:ASN:O	1:S1:424:ARG:NH1	2.42	0.53
1:S5:193:LEU:HB2	1:S7:185:GLU:HA	1.89	0.53
1:S6:462:ASN:N	1:S6:462:ASN:HD22	2.05	0.53
1:SO:515:TRP:HB3	1:SP:398:LEU:HD22	1.89	0.53
1:Sv:127:ASN:O	1:Sv:131:THR:HG23	2.08	0.53
1:Sx:173:ILE:HG23	1:Sz:173:ILE:HG12	1.91	0.53
3:Ur:84:GLN:OE1	3:Ur:166:HIS:N	2.39	0.53
3:VN:7:LYS:HB3	4:XI:318:GLN:HE22	1.73	0.53
3:Vr:14:LEU:O	3:Vr:16:ASP:N	2.42	0.53
4:Wj:460:TYR:HE1	4:Wl:458:THR:HG23	1.72	0.53
4:Wn:323:THR:HB	4:Wn:355:ASP:HB3	1.88	0.53
4:Wo:202:TYR:OH	4:Wo:223:VAL:O	2.25	0.53
4:XI:99:PHE:HA	4:XK:138:CYS:SG	2.48	0.53
4:XK:94:ARG:HD3	4:XK:134:GLU:HG2	1.91	0.53
4:Xj:89:TYR:HA	4:Xj:137:TYR:HB3	1.91	0.53
4:XI:299:ILE:O	4:XI:301:GLY:N	2.38	0.53
4:Xn:556:GLN:HG2	5:Yx:206:GLN:HA	1.89	0.53
4:Xo:15:THR:OG1	4:Xo:16:GLY:N	2.37	0.53
4:Xo:96:ARG:NH1	4:Xo:132:ASP:OD2	2.41	0.53
4:Xo:195:HIS:CE1	4:Xo:232:LEU:HD21	2.43	0.53
5:YY:160:VAL:O	5:YY:164:SER:OG	2.25	0.53
5:YY:371:ILE:HG23	5:YY:496:SER:HB2	1.91	0.53
5:YY:408:HIS:CD2	5:YY:410:GLU:HB3	2.43	0.53
5:YY:681:THR:O	5:YY:685:ASN:HB2	2.08	0.53
5:Yc:927:THR:OG1	5:Yc:985:GLU:OE1	2.25	0.53
5:Yx:180:ILE:HD11	5:Yx:532:ALA:HB2	1.90	0.53
6:ZD:87:ASP:HB3	6:ZD:209:VAL:HG13	1.91	0.53
7:b6:521:ALA:HB1	7:b6:541:ALA:HA	1.90	0.53
7:b7:28:ALA:HB2	7:b7:370:VAL:HG21	1.90	0.53
7:b9:470:LEU:HD23	7:b9:525:VAL:HG21	1.91	0.53
7:bO:564:ILE:HD11	7:cM:642:PHE:CE2	2.44	0.53
7:bR:456:TYR:CZ	7:bR:465:ASN:HB3	2.43	0.53
7:cE:104:SER:HB2	7:cE:181:VAL:HB	1.89	0.53
7:cK:66:MET:HG2	7:cK:468:VAL:HG21	1.90	0.53
7:cN:66:MET:HG2	7:cN:468:VAL:HG21	1.90	0.53
7:cP:332:GLU:N	7:cP:332:GLU:OE1	2.40	0.53
8:eB:90:VAL:O	8:eB:94:GLN:HG2	2.07	0.53
8:f9:209:TRP:HB2	8:f9:223:ILE:HG22	1.90	0.53
8:fA:80:MET:HG2	8:fA:81:ARG:H	1.73	0.53
8:fB:58:ASP:OD2	15:nT:47:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fr:550:ILE:HG13	8:fr:596:ASN:HB3	1.90	0.53
11:h1:6:VAL:HG21	11:hr:58:ILE:HD11	1.90	0.53
11:hp:58:ILE:HD11	11:hy:6:VAL:HG21	1.91	0.53
12:iF:13:SER:HB3	12:iF:73:SER:HB3	1.89	0.53
12:iF:198:MET:SD	12:iF:203:MET:HB2	2.49	0.53
15:m2:10:ASP:OD1	15:m2:11:ILE:N	2.41	0.53
1:S1:439:ILE:HG23	1:S3:515:TRP:CZ2	2.43	0.53
1:S5:61:PRO:HB3	1:S5:74:LYS:HD3	1.89	0.53
1:S5:335:ASN:N	1:S7:329:ASN:OD1	2.38	0.53
1:Sw:256:THR:HG21	4:Wj:344:VAL:HG21	1.91	0.53
1:Sx:170:ILE:HG22	1:Sx:174:ALA:HB2	1.89	0.53
2:TG:50:VAL:O	2:TG:52:ASN:N	2.42	0.53
2:Tf:201:LYS:NZ	2:Tf:220:ASN:OD1	2.33	0.53
2:Tf:212:ARG:HG3	2:Tf:213:LYS:HG3	1.89	0.53
2:Tg:64:THR:HA	2:Ti:84:ARG:HE	1.74	0.53
3:Vu:127:ALA:HA	3:Vu:130:ARG:HH11	1.74	0.53
4:WI:223:VAL:HB	4:WI:224:PRO:HD3	1.90	0.53
4:WI:491:ASN:HD21	4:WI:493:ASP:HB3	1.73	0.53
4:Wj:110:VAL:HG22	4:Wj:123:PRO:HB3	1.90	0.53
4:Wo:454:TYR:O	4:Wo:600:ARG:NH1	2.37	0.53
4:XJ:293:PHE:HD2	4:XJ:298:LEU:HD11	1.72	0.53
4:Xj:60:LEU:HD21	4:Xj:79:ILE:HG22	1.91	0.53
5:YX:909:THR:OG1	5:YX:910:GLU:N	2.42	0.53
5:Yx:217:GLN:OE1	5:Yx:218:THR:N	2.41	0.53
6:ZD:147:LEU:HD23	6:ZD:149:ASP:H	1.73	0.53
6:aD:228:ASN:OD1	6:aD:229:LEU:N	2.41	0.53
6:aD:279:LEU:H	6:aD:306:SER:HB3	1.73	0.53
7:bN:76:ASN:O	7:bN:76:ASN:ND2	2.42	0.53
7:cD:467:TRP:CZ3	7:cM:199:GLU:HB2	2.44	0.53
7:cJ:104:SER:HB2	7:cJ:181:VAL:HB	1.91	0.53
7:cJ:400:ARG:HD3	7:cJ:403:CYS:SG	2.49	0.53
7:cK:486:GLN:NE2	11:h1:11:GLU:OE1	2.40	0.53
7:cL:406:LEU:HD13	7:cL:475:ALA:HB2	1.91	0.53
7:dT:103:ILE:HG12	7:dT:182:ILE:HG22	1.91	0.53
7:dU:379:ALA:HA	7:dU:411:ARG:HB2	1.90	0.53
7:dW:332:GLU:OE1	7:dW:332:GLU:N	2.40	0.53
8:eB:46:TYR:HB3	8:eB:53:LEU:HD23	1.91	0.53
8:eW:273:ILE:HG22	8:eW:275:THR:HG22	1.89	0.53
8:eW:454:ILE:HG22	8:eW:455:PHE:H	1.73	0.53
8:fW:210:THR:OG1	8:fW:226:MET:N	2.41	0.53
9:gG:214:MET:O	9:gG:218:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hK:113:VAL:HG13	11:hK:127:ILE:HG12	1.89	0.53
11:hj:39:THR:HG22	11:hj:71:VAL:HG22	1.88	0.53
11:hu:43:ALA:O	11:hu:162:TRP:NE1	2.42	0.53
12:iC:40:MET:HG3	12:iC:344:HIS:HB2	1.91	0.53
12:iD:246:ASP:OD2	12:iF:67:ASN:ND2	2.42	0.53
16:o0:340:SER:HB3	17:q5:189:ARG:HH11	1.72	0.53
16:o2:10:ASP:OD1	16:o2:10:ASP:N	2.41	0.53
1:S0:512:THR:HA	1:S5:442:MET:HA	1.91	0.53
1:S2:221:THR:HG23	1:S2:224:TYR:H	1.72	0.53
1:S3:66:VAL:HG21	1:S3:80:THR:HB	1.91	0.53
1:S8:11:ASN:OD1	1:S8:11:ASN:N	2.42	0.53
1:SO:286:ASP:OD2	1:SQ:291:ARG:NH1	2.41	0.53
1:SP:497:ASN:OD1	1:SP:500:TYR:N	2.39	0.53
1:SQ:478:ASP:HB3	4:Xo:353:HIS:HB2	1.89	0.53
2:T1:282:GLN:OE1	2:T3:205:THR:OG1	2.25	0.53
2:T2:18:ALA:HB1	2:T2:22:ASP:HB2	1.91	0.53
2:T3:50:VAL:C	2:T3:52:ASN:H	2.17	0.53
2:T3:202:LEU:HB3	2:T3:278:VAL:HG22	1.91	0.53
2:T3:224:ASP:OD2	2:T3:227:ASN:ND2	2.40	0.53
2:T7:17:ASN:OD1	2:T7:18:ALA:N	2.38	0.53
2:TG:97:ILE:HG12	2:TG:125:GLN:HB3	1.91	0.53
2:Te:172:GLU:HB3	2:Tg:164:ILE:HG12	1.90	0.53
3:Uq:144:ASN:HB2	3:Uq:161:LEU:HA	1.90	0.53
4:WJ:313:PHE:HA	4:WJ:381:ILE:HA	1.89	0.53
4:XI:119:GLY:HA2	4:XI:404:ASP:CG	2.34	0.53
4:XJ:558:ASP:O	4:XJ:560:ASP:N	2.39	0.53
4:Xk:23:GLY:C	4:Xk:25:LYS:H	2.17	0.53
4:Xn:195:HIS:NE2	4:Xn:232:LEU:HD21	2.23	0.53
4:Xo:62:ALA:HA	4:Xo:68:TYR:HE2	1.72	0.53
5:YY:61:TYR:CE2	6:Za:156:LEU:HD11	2.43	0.53
5:YY:124:GLN:O	5:YY:128:THR:OG1	2.27	0.53
5:YY:307:ILE:HD13	5:YY:323:ARG:HH12	1.73	0.53
5:YY:695:PRO:O	5:YY:725:ARG:NH1	2.41	0.53
5:YY:798:ILE:HG12	5:YY:811:VAL:HG12	1.90	0.53
5:Yx:52:ASN:ND2	5:Yx:53:GLN:OE1	2.41	0.53
7:b0:281:ILE:HG13	7:b0:295:LEU:HD12	1.91	0.53
7:b0:642:PHE:HE1	7:cI:564:ILE:HD11	1.73	0.53
7:b4:467:TRP:CZ3	7:b9:199:GLU:HB2	2.44	0.53
7:cB:417:ILE:HD13	7:cB:417:ILE:H	1.74	0.53
7:cF:11:LYS:HG2	7:cF:13:THR:HG23	1.90	0.53
7:cF:41:ILE:HD11	7:cF:361:PHE:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cF:264:THR:O	7:cF:266:LYS:N	2.42	0.53
7:cK:478:CYS:O	7:cK:555:ARG:NH1	2.39	0.53
7:cO:118:VAL:HB	7:cO:126:GLU:HB3	1.91	0.53
7:cP:110:TYR:H	7:cP:138:GLY:HA3	1.73	0.53
7:dS:209:ASP:OD1	7:dS:209:ASP:N	2.38	0.53
7:dW:403:CYS:O	7:dW:558:ASN:ND2	2.38	0.53
8:f9:317:GLY:HA3	8:f9:355:SER:HB2	1.91	0.53
8:fS:45:ASP:OD1	8:fS:45:ASP:N	2.42	0.53
8:fU:213:SER:HB2	8:fU:215:VAL:HG12	1.91	0.53
8:fr:39:GLY:HA2	8:fr:44:LEU:HD23	1.91	0.53
11:hL:46:VAL:HG22	11:hL:64:ARG:HE	1.73	0.53
11:hF:99:ILE:O	11:hj:120:ALA:HB2	2.08	0.53
11:hj:113:VAL:HG13	11:hj:127:ILE:HG23	1.91	0.53
12:iD:100:LYS:NZ	16:pB:197:TYR:O	2.41	0.53
15:m1:56:ASP:O	15:m1:76:ASN:ND2	2.42	0.53
17:q4:159:VAL:HG22	17:q4:242:THR:HB	1.90	0.53
17:q8:165:ASP:OD1	17:q8:166:SER:N	2.39	0.53
1:S4:173:ILE:HD11	1:S8:174:ALA:HB2	1.91	0.53
1:S5:233:GLN:HG2	4:Xj:348:THR:HG22	1.90	0.53
1:SA:456:ASP:HA	1:SA:462:ASN:HD21	1.74	0.53
2:T8:219:ILE:HG21	2:T8:254:PHE:HE2	1.73	0.53
2:TF:31:ILE:HD13	2:TG:31:ILE:HD11	1.90	0.53
2:TG:100:ARG:HE	2:TG:127:ILE:HG21	1.74	0.53
3:UM:67:VAL:HG13	3:UM:217:ARG:HG2	1.89	0.53
3:VM:28:ASP:OD2	3:VN:60:HIS:NE2	2.42	0.53
3:VN:47:PHE:CZ	3:VN:49:GLU:HB2	2.43	0.53
3:VN:73:ASN:HD21	3:VN:215:PHE:HE2	1.57	0.53
3:Vr:15:ALA:HA	3:Vr:18:LEU:HG	1.91	0.53
3:Vt:73:ASN:HD21	3:Vt:215:PHE:HE2	1.55	0.53
4:WI:12:ASP:OD2	5:YC:1005:ARG:NH1	2.42	0.53
4:WI:119:GLY:HA2	4:WI:404:ASP:CG	2.34	0.53
4:WI:204:ASP:OD1	4:WI:204:ASP:N	2.41	0.53
4:WI:451:ASP:OD1	4:WI:600:ARG:NH2	2.41	0.53
4:Wk:12:ASP:OD2	5:YY:1005:ARG:NH1	2.41	0.53
4:Wm:213:GLY:O	4:Wm:214:SER:OG	2.27	0.53
4:Wo:507:ASP:OD1	4:Wo:511:ASN:N	2.39	0.53
4:Xl:310:GLU:OE2	4:XJ:258:TYR:OH	2.19	0.53
4:Xj:326:MET:HG3	4:Xj:327:PRO:HD3	1.91	0.53
4:Xn:400:ILE:O	4:Xn:403:THR:OG1	2.25	0.53
5:YX:177:GLN:HB3	5:YX:215:LYS:HB3	1.91	0.53
5:YX:853:ASP:C	5:YX:855:ILE:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:974:ASN:OD1	5:YX:976:SER:OG	2.25	0.53
5:Yy:122:PHE:HE1	5:Yy:135:VAL:HG21	1.73	0.53
5:Yy:255:TYR:HE1	5:Yy:295:ALA:HB3	1.73	0.53
6:ZD:132:ARG:NE	6:ZD:189:GLU:OE2	2.38	0.53
6:aa:228:ASN:OD1	6:aa:229:LEU:N	2.35	0.53
7:b0:199:GLU:HB2	7:b5:467:TRP:CZ3	2.44	0.53
7:b3:549:ASP:OD2	7:b4:271:TYR:OH	2.23	0.53
7:b4:166:ASN:OD1	7:b4:166:ASN:N	2.41	0.53
7:b6:109:ASN:H	7:b6:137:ASP:HB2	1.74	0.53
7:b8:70:ASN:OD1	7:b8:457:GLN:NE2	2.39	0.53
7:b9:102:THR:HB	7:b9:183:THR:HB	1.90	0.53
7:bQ:303:ASP:OD2	7:bQ:307:SER:OG	2.19	0.53
7:cK:76:ASN:O	7:cK:76:ASN:ND2	2.37	0.53
7:cN:40:GLN:H	7:cN:81:VAL:HG23	1.74	0.53
7:cP:383:LEU:HD11	7:cP:436:TYR:CD1	2.44	0.53
8:eU:45:ASP:O	8:eU:47:ASP:N	2.41	0.53
8:eU:105:ALA:HB2	8:eU:275:THR:HG21	1.91	0.53
8:eU:414:LEU:HD23	8:eU:486:ARG:HH21	1.73	0.53
8:eW:206:TRP:CD1	8:eW:222:THR:HB	2.43	0.53
8:eW:382:LEU:HB3	8:eW:413:TYR:HE2	1.74	0.53
8:fW:123:ILE:HD11	8:fW:295:ILE:HD11	1.90	0.53
8:fr:340:VAL:HG13	8:fr:401:LEU:HD11	1.91	0.53
9:gE:443:ASN:HA	9:gH:451:ALA:HB3	1.90	0.53
9:gH:365:ASP:OD1	9:gH:365:ASP:N	2.40	0.53
11:hu:22:GLN:HB2	11:hu:116:TYR:HE2	1.73	0.53
14:k4:59:LEU:HG	14:k4:63:ILE:HD13	1.89	0.53
14:k4:94:TYR:CD1	14:k4:156:TYR:HB3	2.44	0.53
16:o6:208:THR:HB	16:o6:345:GLU:HG3	1.90	0.53
1:S0:519:LEU:O	1:S5:403:SER:N	2.37	0.53
1:S3:151:LEU:HB2	1:S3:168:LEU:HD13	1.90	0.53
1:S5:515:TRP:HB3	1:S7:398:LEU:HD22	1.90	0.53
1:S7:106:ALA:HB2	1:S7:120:LYS:HD2	1.91	0.53
1:SO:403:SER:N	1:SQ:519:LEU:O	2.34	0.53
1:SP:57:ILE:HG22	1:SQ:55:LYS:HB3	1.90	0.53
1:SP:334:GLN:OE1	1:SQ:330:ARG:NE	2.41	0.53
1:Sv:12:GLU:HB3	1:Sv:15:TYR:HB3	1.89	0.53
1:Sw:449:GLY:HA2	1:Sy:484:THR:HG22	1.91	0.53
1:Sw:497:ASN:H	1:Sw:500:TYR:HB2	1.74	0.53
2:T1:87:ILE:HG21	2:T1:122:LEU:HD12	1.91	0.53
2:T9:172:GLU:OE2	2:T9:197:TYR:OH	2.25	0.53
2:Te:240:VAL:HG23	2:Tg:222:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:10:ILE:HD11	2:Th:31:ILE:HD11	1.90	0.53
3:UL:28:ASP:OD2	3:UM:60:HIS:NE2	2.42	0.53
3:Uq:141:THR:HG22	3:Uu:43:LEU:HD11	1.90	0.53
3:Us:4:LEU:HD22	4:Wo:356:TYR:HB2	1.91	0.53
3:Ut:68:GLY:H	3:Ut:217:ARG:HB3	1.73	0.53
3:Vr:13:ARG:O	3:Vr:17:PHE:HB2	2.09	0.53
3:Vs:40:ILE:HG21	3:Vu:160:TYR:CZ	2.43	0.53
4:Wj:200:LEU:HD23	4:Wj:210:SER:HA	1.90	0.53
4:Wk:119:GLY:HA2	4:Wk:404:ASP:CG	2.34	0.53
4:Wl:577:ASN:ND2	4:Wn:529:ASN:OD1	2.40	0.53
4:Wn:213:GLY:N	4:Wn:231:ARG:O	2.42	0.53
4:XI:102:TRP:CE3	4:XI:131:SER:HB2	2.44	0.53
4:Xj:214:SER:HB2	4:Xj:215:PRO:HD2	1.91	0.53
4:Xm:501:LEU:HB3	4:Xm:512:PRO:HB2	1.91	0.53
4:Xn:313:PHE:CD2	4:Xn:320:LEU:HD21	2.44	0.53
4:Xn:358:VAL:HG13	4:Xn:369:LEU:HB2	1.90	0.53
5:YX:694:TYR:HE2	5:YX:696:ARG:HD2	1.74	0.53
5:Yx:974:ASN:OD1	5:Yx:976:SER:OG	2.26	0.53
6:aE:132:ARG:HD2	6:aE:191:LEU:HD21	1.91	0.53
6:aZ:21:MET:HG3	6:aZ:247:ILE:HG12	1.91	0.53
6:aa:310:ILE:HB	6:ac:16:PHE:HB2	1.90	0.53
7:b4:488:TRP:O	7:b4:552:ASN:ND2	2.42	0.53
7:b8:378:CYS:SG	7:b8:454:TYR:OH	2.61	0.53
7:bO:134:VAL:HG13	7:bO:138:GLY:HA2	1.91	0.53
7:bO:462:ASN:OD1	7:bO:466:ARG:NH1	2.42	0.53
7:cB:134:VAL:HG12	7:cB:140:ILE:HA	1.91	0.53
7:cC:478:CYS:O	7:cC:555:ARG:NH1	2.42	0.53
7:cD:505:LEU:HD21	7:cD:525:VAL:HG12	1.90	0.53
7:cH:612:ASN:HB3	7:cH:624:VAL:HG23	1.90	0.53
7:cI:116:ILE:HD11	7:cI:131:ILE:HG13	1.90	0.53
7:cK:44:VAL:HG11	7:cK:50:LEU:HB2	1.91	0.53
7:cL:110:TYR:H	7:cL:138:GLY:HA3	1.73	0.53
8:eB:135:ALA:HA	8:eB:283:ALA:HA	1.91	0.53
8:fR:215:VAL:HG21	8:fR:252:LEU:C	2.34	0.53
8:fR:590:TYR:HB3	8:fR:609:ILE:HD11	1.91	0.53
8:fW:229:THR:OG1	8:fW:233:ASN:OD1	2.23	0.53
8:fr:544:ASP:HB2	8:fr:576:ASP:CG	2.34	0.53
11:hh:75:ASN:ND2	11:hh:151:GLN:OE1	2.37	0.53
11:hq:39:THR:HG22	11:hq:71:VAL:HG22	1.89	0.53
12:iD:93:PHE:HB3	12:iD:107:ILE:HB	1.91	0.53
14:kV:50:ILE:HD12	14:kV:87:ILE:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o0:172:GLY:H	16:o0:191:THR:HG21	1.74	0.53
16:o2:117:GLY:HA3	16:pB:190:TYR:CG	2.43	0.53
1:S0:513:ARG:O	1:S5:441:GLN:N	2.37	0.53
1:S1:65:GLU:HG2	1:S1:74:LYS:HE3	1.91	0.53
1:S1:399:PHE:H	1:S3:516:ASN:HA	1.74	0.53
1:S4:111:ASN:O	1:S4:114:SER:OG	2.23	0.53
1:S4:357:ASP:OD1	1:S4:357:ASP:N	2.27	0.53
1:S5:303:GLU:HA	1:S7:309:ALA:HB3	1.91	0.53
1:SA:67:ILE:HD13	1:SA:84:ARG:HE	1.74	0.53
1:SA:199:VAL:HG12	1:Sy:212:PRO:HG3	1.91	0.53
1:SO:2:SER:N	4:WI:239:GLY:O	2.42	0.53
1:SP:375:TYR:OH	1:SP:391:GLY:O	2.22	0.53
1:Sx:100:TYR:OH	1:Sz:113:GLU:O	2.25	0.53
2:T6:205:THR:OG1	2:T8:199:MET:SD	2.67	0.53
3:VN:149:HIS:HB3	3:VN:152:ASP:O	2.09	0.53
4:WJ:167:PHE:HE2	4:WJ:244:ILE:HD12	1.74	0.53
4:Wn:292:PRO:HA	4:Wn:368:ILE:HG13	1.91	0.53
4:XJ:188:VAL:HG11	4:XK:129:ARG:HE	1.73	0.53
4:XK:292:PRO:HA	4:XK:368:ILE:HG13	1.91	0.53
4:Xj:556:GLN:HE22	4:Xn:555:CYS:HB3	1.74	0.53
4:Xn:60:LEU:HD21	4:Xn:79:ILE:HG22	1.91	0.53
4:Xn:113:SER:OG	4:Xn:114:GLY:N	2.36	0.53
5:YC:746:PHE:O	5:YC:750:VAL:HG13	2.09	0.53
5:YC:853:ASP:C	5:YC:855:ILE:H	2.17	0.53
5:YY:180:ILE:HG13	5:YY:219:TRP:HH2	1.74	0.53
5:Yc:177:GLN:HB3	5:Yc:215:LYS:HB3	1.91	0.53
5:Yc:379:ILE:HG12	5:Yc:404:TYR:HE1	1.74	0.53
5:Yc:853:ASP:C	5:Yc:855:ILE:H	2.17	0.53
5:Yy:20:GLN:NE2	5:Yy:108:TYR:OH	2.42	0.53
7:b6:148:ALA:O	7:b6:151:ILE:HG13	2.09	0.53
7:b6:406:LEU:HD13	7:b6:475:ALA:HB2	1.91	0.53
7:bN:311:ILE:HB	7:bN:327:ALA:HB2	1.91	0.53
7:bN:453:ASN:HB2	7:bN:506:ALA:HB3	1.91	0.53
7:bO:560:LEU:O	7:bO:564:ILE:HG12	2.09	0.53
7:bY:57:PRO:HB2	7:bY:62:ALA:HA	1.90	0.53
7:cB:432:ALA:HB2	7:cB:440:ASN:HD22	1.74	0.53
7:cG:400:ARG:HD3	7:cG:403:CYS:SG	2.49	0.53
7:cK:510:ARG:HG2	7:cK:511:GLN:H	1.74	0.53
7:cL:26:THR:HA	7:cL:77:ASP:O	2.09	0.53
7:cL:121:VAL:HG13	7:cL:166:ASN:HB3	1.90	0.53
7:cN:351:THR:HG23	7:cN:354:ASP:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:46:ASN:OD1	7:cO:47:GLU:N	2.42	0.53
7:dS:117:THR:HG23	7:dS:127:THR:HG22	1.91	0.53
7:dT:486:GLN:HB3	7:dT:489:MET:HG3	1.91	0.53
7:dW:455:LYS:HB3	7:dW:470:LEU:HD13	1.91	0.53
7:dZ:134:VAL:HB	7:dZ:138:GLY:HA2	1.90	0.53
8:fA:388:GLN:O	8:fA:392:ILE:HG22	2.08	0.53
8:fB:281:ASN:ND2	8:fB:315:GLY:H	2.07	0.53
9:gG:443:ASN:ND2	9:gH:153:ASP:OD2	2.34	0.53
9:gH:154:THR:O	9:gH:182:ARG:NH2	2.42	0.53
11:hg:49:ILE:HG12	11:hg:60:VAL:HG12	1.91	0.53
11:hm:75:ASN:ND2	11:hm:151:GLN:OE1	2.38	0.53
16:o6:213:PRO:HD2	16:o6:340:SER:O	2.07	0.53
17:q4:121:SER:OG	17:q4:122:GLY:N	2.40	0.53
1:S0:486:ASP:HB2	1:S5:444:TYR:HB2	1.91	0.52
1:S3:8:HIS:ND1	1:S3:8:HIS:O	2.42	0.52
1:S5:61:PRO:HD3	1:S5:74:LYS:HB3	1.92	0.52
1:S6:354:LEU:HD21	1:S6:522:ILE:HG21	1.92	0.52
1:SA:220:SER:HB2	1:SA:228:ILE:HG23	1.91	0.52
1:SO:117:THR:H	1:SO:120:LYS:HZ3	1.57	0.52
1:Sz:453:GLU:HG3	1:Sz:475:LEU:HD21	1.91	0.52
2:T5:98:ILE:O	2:T5:127:ILE:HG12	2.09	0.52
2:T7:194:ARG:HE	2:T7:259:ASN:HA	1.74	0.52
2:T8:10:ILE:HD11	2:T8:31:ILE:HD11	1.91	0.52
2:Td:284:ILE:HG23	2:Th:178:THR:HG21	1.90	0.52
2:Te:248:GLU:HG3	2:Te:249:ILE:HG13	1.90	0.52
3:Vq:127:ALA:HA	3:Vq:130:ARG:HH11	1.75	0.52
3:Vt:68:GLY:H	3:Vt:217:ARG:HB3	1.73	0.52
3:Vt:149:HIS:HB3	3:Vt:152:ASP:O	2.09	0.52
3:Vt:193:TRP:HB3	3:Vt:215:PHE:HB3	1.90	0.52
4:WJ:109:LEU:HB3	4:WJ:124:VAL:HG23	1.91	0.52
4:Wm:464:VAL:HG11	4:Wo:422:LEU:HD21	1.91	0.52
4:XI:152:ASP:H	4:XK:146:VAL:HG12	1.73	0.52
4:XJ:463:ALA:HB2	4:XK:459:ILE:HD11	1.90	0.52
4:Xk:223:VAL:HB	4:Xk:224:PRO:HD3	1.92	0.52
4:Xk:293:PHE:CE1	4:Xk:366:PRO:HB2	2.43	0.52
4:Xl:38:GLY:HA2	4:Xl:43:PRO:HA	1.91	0.52
4:Xm:193:VAL:HG13	4:Xm:199:GLU:HB3	1.90	0.52
4:Xm:322:GLY:N	4:Xm:358:VAL:O	2.42	0.52
4:Xn:313:PHE:HB3	4:Xn:381:ILE:HG12	1.91	0.52
4:Xo:312:ARG:HD3	4:Xo:317:LEU:HB2	1.91	0.52
5:YC:298:ALA:HB3	5:YC:300:LEU:HD23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:376:PHE:HB3	5:YX:405:VAL:HA	1.90	0.52
5:YY:521:ASN:OD1	5:YY:521:ASN:N	2.42	0.52
5:Yc:477:ARG:NH1	6:ZE:135:ASP:OD1	2.39	0.52
5:Yc:724:ALA:C	5:Yc:726:PHE:H	2.17	0.52
5:Yx:916:TYR:HB3	5:Yx:1004:PHE:HB3	1.89	0.52
5:Yy:653:MET:HG3	5:Yy:654:PRO:HD2	1.91	0.52
6:aa:34:LYS:O	6:aa:291:LYS:NZ	2.42	0.52
7:b0:629:ILE:O	7:b5:645:THR:OG1	2.26	0.52
7:b3:494:TYR:HE2	7:b3:528:THR:HG21	1.74	0.52
7:b4:455:LYS:HD2	7:b4:457:GLN:HB2	1.91	0.52
7:b4:556:LEU:HD23	7:b4:560:LEU:HD13	1.90	0.52
7:b6:104:SER:HB2	7:b6:181:VAL:HB	1.89	0.52
7:b6:378:CYS:HB2	7:b6:410:PRO:HA	1.91	0.52
7:b7:617:VAL:HG22	7:b7:622:GLU:HB2	1.92	0.52
7:bR:303:ASP:OD1	7:bR:304:ILE:N	2.41	0.52
7:bY:135:ASP:O	7:bY:137:ASP:N	2.41	0.52
7:cB:612:ASN:HB3	7:cB:624:VAL:HG23	1.91	0.52
7:cC:66:MET:HG2	7:cC:468:VAL:HG21	1.92	0.52
7:cF:220:PRO:HG2	7:cF:338:LEU:HD11	1.90	0.52
7:cF:487:THR:HG21	7:cF:559:MET:HE3	1.91	0.52
7:dS:57:PRO:HG3	7:dS:65:PHE:CD1	2.44	0.52
7:dT:57:PRO:HB3	7:dT:62:ALA:HA	1.91	0.52
7:dU:505:LEU:HD21	7:dU:525:VAL:HG12	1.92	0.52
8:eU:516:SER:OG	8:eU:617:GLU:OE1	2.26	0.52
8:eU:595:ILE:HG22	8:eU:602:ILE:HA	1.91	0.52
8:fB:155:ARG:HG2	8:fB:161:TYR:CE2	2.44	0.52
8:fW:206:TRP:CD1	8:fW:222:THR:HB	2.44	0.52
8:fW:507:ASP:OD1	8:fW:545:ARG:NH1	2.42	0.52
9:gH:184:GLU:HG2	9:gH:203:GLY:HA3	1.92	0.52
11:h1:82:ARG:NH1	11:h1:138:GLY:HA2	2.24	0.52
11:he:24:GLU:OE2	11:he:33:THR:OG1	2.27	0.52
11:hl:54:MET:HE3	11:hr:20:LEU:HA	1.92	0.52
16:o0:88:SER:O	16:o0:89:SER:OG	2.26	0.52
17:q8:121:SER:OG	17:q8:122:GLY:N	2.42	0.52
1:S1:161:THR:HG21	1:S2:156:ASP:HA	1.91	0.52
1:S4:357:ASP:OD1	1:S6:339:ARG:NH1	2.39	0.52
1:S5:141:VAL:HG22	1:S7:139:ASN:HB2	1.90	0.52
1:S8:496:ARG:NH1	1:S8:501:THR:OG1	2.43	0.52
1:SO:429:CYS:SG	1:SP:515:TRP:NE1	2.82	0.52
2:T7:92:VAL:HG12	5:Yy:55:ARG:HH22	1.72	0.52
2:T8:85:HIS:HB2	2:T8:109:PHE:CD1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:50:VAL:O	2:Th:52:ASN:N	2.41	0.52
3:UL:106:THR:HG21	4:WI:269:LYS:HG3	1.91	0.52
4:WI:551:ILE:HG13	4:WK:568:LYS:HG2	1.90	0.52
4:WJ:594:THR:OG1	4:WK:518:GLY:N	2.37	0.52
4:WK:15:THR:OG1	4:WK:16:GLY:N	2.39	0.52
4:Wk:223:VAL:HB	4:Wk:224:PRO:HD3	1.91	0.52
4:Wl:189:ASN:HB3	4:Wn:159:ILE:HD11	1.90	0.52
4:Wm:323:THR:HG23	4:Wm:358:VAL:C	2.34	0.52
4:XI:266:LEU:HB2	4:XI:271:THR:HG23	1.91	0.52
4:XK:131:SER:HA	4:XK:150:GLN:HB3	1.91	0.52
4:XK:313:PHE:HB3	4:XK:381:ILE:HG12	1.91	0.52
4:XK:342:CYS:HB3	4:XK:349:TRP:CH2	2.45	0.52
4:Xj:117:ILE:HG13	4:Xj:118:LYS:H	1.75	0.52
4:Xk:584:THR:HB	4:Xm:531:ASN:HD22	1.73	0.52
4:Xm:313:PHE:HA	4:Xm:381:ILE:HA	1.91	0.52
5:YX:347:GLU:HB2	5:YX:349:LEU:HD23	1.91	0.52
5:YX:691:ARG:HG3	8:eU:230:ILE:HD13	1.91	0.52
5:YY:145:ALA:HA	5:YY:542:THR:HA	1.91	0.52
5:YY:872:SER:HB3	6:Zc:324:GLN:HG3	1.90	0.52
5:Yc:298:ALA:HB3	5:Yc:300:LEU:HD23	1.91	0.52
5:Yc:415:ARG:NH1	5:Yc:418:GLY:O	2.42	0.52
5:Yc:914:ASN:OD1	5:Yc:1011:ARG:NE	2.37	0.52
5:Yx:240:GLN:HB3	5:Yx:245:THR:HG23	1.91	0.52
5:Yx:894:THR:O	5:Yx:894:THR:OG1	2.26	0.52
6:Zc:115:ASN:HA	6:Zc:121:ALA:HA	1.90	0.52
6:ac:270:ARG:CZ	6:ac:317:PRO:HB3	2.39	0.52
7:b6:239:VAL:HG22	7:b6:280:ALA:HB3	1.91	0.52
7:b9:26:THR:HA	7:b9:77:ASP:O	2.08	0.52
7:bR:134:VAL:HG13	7:bR:138:GLY:HA2	1.91	0.52
7:bY:120:TYR:HE2	7:bY:157:VAL:HG11	1.74	0.52
7:cF:110:TYR:CE1	7:cF:171:ILE:HD12	2.44	0.52
7:cF:486:GLN:NE2	11:hs:11:GLU:OE1	2.43	0.52
7:cH:566:ARG:HG3	7:cH:569:LYS:HE2	1.90	0.52
7:cJ:488:TRP:HB3	7:cJ:556:LEU:HD13	1.91	0.52
7:cK:379:ALA:HB2	7:cK:454:TYR:HE2	1.73	0.52
7:cP:41:ILE:HD11	7:cP:361:PHE:HB3	1.90	0.52
7:dW:66:MET:HG2	7:dW:468:VAL:HG21	1.91	0.52
7:dW:372:LEU:HD21	7:dW:478:CYS:HB2	1.91	0.52
8:f9:502:ASN:N	8:f9:600:ASP:OD2	2.42	0.52
8:fA:357:ILE:HD12	8:fA:376:ALA:HB1	1.90	0.52
8:fS:462:SER:O	8:fS:466:THR:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fU:174:ARG:HA	8:fU:270:ILE:O	2.09	0.52
8:fs:69:GLN:NE2	14:k8:25:MET:SD	2.74	0.52
8:fs:214:MET:HE1	8:fs:257:ILE:HG23	1.90	0.52
11:h1:54:MET:HE3	11:hM:20:LEU:HA	1.91	0.52
11:he:95:GLN:HG3	11:ht:64:ARG:NH1	2.24	0.52
11:hi:70:THR:HG22	11:hi:156:THR:HG22	1.90	0.52
11:hX:41:LEU:HB3	11:hy:140:LEU:HB3	1.91	0.52
14:kV:31:ASN:C	14:kV:33:LYS:H	2.17	0.52
16:o2:346:ILE:HD12	16:o2:348:MET:HE3	1.90	0.52
1:S1:357:ASP:OD1	1:S2:339:ARG:NH1	2.40	0.52
1:S2:61:PRO:HD3	1:S2:74:LYS:HB3	1.91	0.52
1:S6:265:LEU:HB3	1:S6:282:ALA:HB2	1.90	0.52
1:S6:401:ARG:NH1	1:S6:438:GLN:OE1	2.36	0.52
1:S8:349:TRP:NE1	1:S8:353:SER:O	2.41	0.52
1:Sv:172:LEU:O	1:Sv:175:GLN:NE2	2.42	0.52
1:Sy:149:GLN:O	1:Sy:153:GLY:HA2	2.08	0.52
2:T2:14:GLU:HA	2:T2:17:ASN:HD21	1.75	0.52
2:T8:50:VAL:C	2:T8:52:ASN:H	2.17	0.52
2:TF:50:VAL:O	2:TF:52:ASN:N	2.42	0.52
2:Td:43:GLY:O	2:Td:68:GLN:NE2	2.43	0.52
2:Th:18:ALA:HB3	2:Th:23:ILE:HG23	1.91	0.52
3:VL:16:ASP:OD2	3:VL:45:LYS:NZ	2.40	0.52
3:Vu:7:LYS:HG3	4:Xk:316:ILE:HD13	1.92	0.52
4:WI:6:ASN:ND2	4:WI:17:ASP:OD1	2.37	0.52
4:WJ:177:PHE:HB2	4:WJ:230:ILE:HD11	1.91	0.52
4:Wk:176:ASP:HB3	4:Wk:231:ARG:HG3	1.91	0.52
4:Wl:19:LEU:HD13	4:Wn:19:LEU:HD21	1.91	0.52
4:XI:161:ASN:HB2	4:XI:248:MET:SD	2.50	0.52
4:Xk:483:GLN:NE2	4:Xm:491:ASN:OD1	2.43	0.52
4:XI:158:ASP:OD1	4:XI:158:ASP:N	2.43	0.52
4:Xo:113:SER:OG	4:Xo:114:GLY:N	2.36	0.52
4:Xo:410:GLN:OE1	4:Xo:444:ASN:ND2	2.41	0.52
5:YC:737:THR:OG1	8:eB:215:VAL:HG11	2.09	0.52
5:Yc:174:HIS:HA	5:Yc:535:VAL:HA	1.92	0.52
5:Yc:521:ASN:N	5:Yc:521:ASN:OD1	2.41	0.52
5:Yy:200:TYR:OH	5:Yy:292:GLU:OE1	2.27	0.52
7:b0:97:GLY:O	7:b0:147:THR:OG1	2.20	0.52
7:b3:378:CYS:HB2	7:b3:410:PRO:HA	1.91	0.52
7:b3:455:LYS:NZ	7:b3:473:ASP:OD1	2.42	0.52
7:bO:147:THR:O	7:bO:147:THR:OG1	2.26	0.52
7:bP:198:ILE:HD11	7:bP:225:LEU:HD11	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:642:PHE:CE1	7:dU:564:ILE:HD11	2.44	0.52
7:cE:115:LYS:HE2	7:cE:128:GLU:HA	1.92	0.52
7:cJ:540:THR:HG22	7:cJ:551:ILE:HG12	1.91	0.52
7:cM:166:ASN:OD1	7:cM:166:ASN:N	2.25	0.52
7:cM:220:PRO:HG2	7:cM:338:LEU:HD11	1.90	0.52
7:cM:228:GLY:HA2	7:cM:345:SER:HB3	1.91	0.52
7:cN:438:ASP:OD1	7:cN:438:ASP:N	2.40	0.52
7:cN:576:ASN:HD22	7:cN:618:ILE:HG23	1.75	0.52
7:dS:576:ASN:ND2	7:dS:622:GLU:O	2.43	0.52
7:dT:609:ASP:OD2	17:q8:257:ARG:NH2	2.42	0.52
7:dZ:456:TYR:HB3	7:dZ:503:ILE:HG12	1.90	0.52
9:gG:221:LEU:O	9:gG:225:VAL:HG12	2.09	0.52
11:hj:58:ILE:HD12	11:ho:6:VAL:HG21	1.91	0.52
12:iC:128:ALA:HB3	12:iC:155:ALA:HB3	1.90	0.52
14:k4:4:THR:OG1	16:o2:78:ARG:NE	2.43	0.52
15:m5:122:ILE:HG13	15:m5:123:LYS:HE2	1.91	0.52
16:o1:56:ASP:N	16:o1:56:ASP:OD1	2.41	0.52
16:o2:334:ILE:O	16:pB:302:SER:OG	2.17	0.52
1:S4:303:GLU:HA	1:S6:309:ALA:HB3	1.90	0.52
1:SA:415:ASN:O	1:SA:424:ARG:NH1	2.41	0.52
1:SO:484:THR:HG22	1:SQ:449:GLY:HA2	1.91	0.52
1:Sw:61:PRO:HB3	1:Sw:74:LYS:HD3	1.91	0.52
1:Sw:150:ALA:HB2	1:Sw:164:LYS:HZ2	1.73	0.52
1:Sz:58:LEU:HD11	1:Sz:75:ALA:HB2	1.92	0.52
2:TF:2:PHE:CZ	2:TF:36:ASN:HB3	2.45	0.52
2:Tg:1:MET:HG2	2:Tg:70:HIS:CD2	2.45	0.52
3:UL:96:ASP:OD1	3:UL:98:SER:OG	2.26	0.52
3:UL:148:ASP:OD1	3:UL:148:ASP:N	2.42	0.52
3:UM:14:LEU:O	3:UM:16:ASP:N	2.43	0.52
3:Ur:14:LEU:O	3:Ur:16:ASP:N	2.42	0.52
3:Ur:37:SER:HA	3:Ur:50:PRO:HB3	1.90	0.52
3:VM:114:VAL:HG21	3:VM:129:VAL:HG22	1.91	0.52
3:Vp:13:ARG:HD2	3:Vt:9:GLY:C	2.35	0.52
3:Vs:14:LEU:O	3:Vs:16:ASP:N	2.43	0.52
4:WI:115:ASP:OD2	4:WI:137:TYR:OH	2.16	0.52
4:WK:60:LEU:HD21	4:WK:79:ILE:HG22	1.91	0.52
4:WK:419:ASP:HB3	4:WK:436:VAL:HB	1.91	0.52
4:Wj:9:ASN:OD1	4:Wj:9:ASN:N	2.43	0.52
4:Wk:455:PRO:O	4:Wk:458:THR:OG1	2.23	0.52
4:Wl:594:THR:OG1	4:Wn:518:GLY:N	2.41	0.52
4:Wo:563:GLY:N	4:Wo:564:PRO:HD3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xk:340:VAL:HG23	4:Xk:341:GLU:HG3	1.92	0.52
4:Xn:174:GLN:HE21	4:Xn:177:PHE:HE1	1.58	0.52
5:YX:398:SER:O	5:YX:401:LYS:NZ	2.38	0.52
5:YX:807:LEU:HD23	5:YX:807:LEU:H	1.75	0.52
5:YY:932:ARG:HG3	5:YY:1005:ARG:NH2	2.25	0.52
5:Yc:138:ASN:OD1	5:Yc:138:ASN:N	2.41	0.52
6:ZD:92:ARG:HB3	6:ZD:208:ILE:HG23	1.91	0.52
6:ZE:43:ARG:O	6:ZE:270:ARG:HG2	2.09	0.52
6:aZ:115:ASN:HA	6:aZ:121:ALA:HA	1.91	0.52
7:b0:488:TRP:O	7:b0:552:ASN:ND2	2.43	0.52
7:bQ:564:ILE:HD11	7:cO:642:PHE:CZ	2.45	0.52
7:bY:117:THR:HG23	7:bY:127:THR:HG22	1.91	0.52
7:cA:135:ASP:OD1	7:cA:136:ALA:N	2.43	0.52
7:cO:66:MET:HG2	7:cO:468:VAL:HG21	1.89	0.52
7:dS:269:PHE:CE2	7:dS:280:ALA:HB1	2.45	0.52
7:dV:171:ILE:HD13	7:dV:171:ILE:H	1.73	0.52
7:dV:222:VAL:HG13	7:dV:325:ALA:HB2	1.91	0.52
8:eU:400:ASN:HD21	8:eU:406:PRO:HG3	1.75	0.52
8:fB:323:GLU:O	8:fB:327:GLU:HG2	2.10	0.52
8:fB:501:TYR:O	8:fB:503:ASN:ND2	2.42	0.52
8:fR:508:ARG:HH12	8:fR:576:ASP:C	2.17	0.52
8:fS:274:SER:O	8:fS:274:SER:OG	2.27	0.52
8:fs:81:ARG:HA	8:fs:326:ARG:HD3	1.91	0.52
9:gE:531:ASN:ND2	9:gG:523:GLU:OE1	2.42	0.52
9:gG:206:ILE:HG22	9:gG:207:MET:HG3	1.90	0.52
11:hq:136:ASN:O	11:hq:136:ASN:ND2	2.36	0.52
12:iF:125:PHE:HE2	12:iF:134:GLU:HG3	1.75	0.52
14:IV:7:ASP:OD1	14:IV:7:ASP:N	2.42	0.52
16:o0:47:ASP:HB2	16:o0:56:ASP:HB2	1.92	0.52
16:o0:333:ALA:HB2	17:q5:91:ALA:HB2	1.91	0.52
16:o0:335:ALA:HB2	17:q5:37:LEU:HD12	1.91	0.52
16:o2:61:GLY:HA2	16:o2:131:ARG:HG2	1.90	0.52
16:pB:91:ILE:O	16:pB:96:ARG:HB2	2.10	0.52
16:pB:213:PRO:HG3	16:pB:219:LEU:HD13	1.92	0.52
1:S0:302:ILE:HG22	1:S0:304:ASP:H	1.74	0.52
1:S4:403:SER:OG	1:S8:520:ASN:OD1	2.27	0.52
1:S5:98:THR:HG23	1:S5:114:SER:HA	1.92	0.52
1:S6:512:THR:HA	1:S8:442:MET:HA	1.90	0.52
1:SA:160:MET:HG3	1:SA:164:LYS:HB2	1.92	0.52
1:SA:330:ARG:NE	1:Sy:334:GLN:OE1	2.40	0.52
1:SQ:5:THR:HG23	4:WJ:196:ARG:HE	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sw:476:ASP:O	1:Sw:479:ASN:ND2	2.43	0.52
1:Sw:512:THR:HA	1:Sy:442:MET:HA	1.90	0.52
1:Sy:6:TYR:O	4:Wm:234:GLN:NE2	2.43	0.52
2:T6:44:ASP:O	2:T6:59:GLN:NE2	2.43	0.52
3:UN:7:LYS:HB3	4:Wl:318:GLN:HE22	1.75	0.52
3:Uq:54:SER:O	3:Us:164:GLN:NE2	2.41	0.52
3:Vp:14:LEU:O	3:Vp:16:ASP:N	2.42	0.52
3:Vs:7:LYS:HB3	4:Xo:318:GLN:NE2	2.24	0.52
3:Vs:62:PHE:CD1	3:Vu:190:TYR:HB3	2.44	0.52
3:Vu:15:ALA:HA	3:Vu:18:LEU:HG	1.92	0.52
4:Wj:276:LEU:HB2	4:Wj:280:ILE:HB	1.91	0.52
4:Wk:18:TYR:CZ	4:Wk:21:LYS:HG2	2.44	0.52
4:Wk:200:LEU:HD11	4:Wm:241:THR:HG21	1.91	0.52
4:XJ:464:VAL:HG12	4:XK:429:GLY:HA2	1.92	0.52
4:Xl:115:ASP:OD2	4:Xl:137:TYR:OH	2.19	0.52
4:Xm:274:THR:HA	4:Xm:282:VAL:HG11	1.91	0.52
4:Xn:95:ALA:HB3	4:Xn:133:LEU:HB2	1.92	0.52
4:Xo:80:ASN:OD1	4:Xo:112:ALA:HB2	2.09	0.52
4:Xo:323:THR:HB	4:Xo:355:ASP:HB3	1.92	0.52
5:YC:200:TYR:OH	5:YC:292:GLU:OE1	2.28	0.52
5:YX:506:MET:HE3	6:Zc:176:ALA:HB2	1.92	0.52
5:YY:248:LEU:HD22	5:YY:249:GLY:H	1.75	0.52
5:Yc:575:PHE:HB2	5:Yc:608:VAL:HG22	1.92	0.52
5:Yx:909:THR:OG1	5:Yx:910:GLU:N	2.43	0.52
5:Yy:9:THR:OG1	5:Yy:26:ASP:OD2	2.18	0.52
6:ZD:279:LEU:HD12	6:ZE:232:GLN:HE21	1.75	0.52
6:ZZ:216:LEU:HD23	6:ZZ:236:PHE:HB3	1.90	0.52
6:aa:19:GLU:OE2	6:aa:23:ASN:ND2	2.42	0.52
7:b4:485:SER:OG	7:b4:486:GLN:N	2.43	0.52
7:bP:99:ILE:HA	7:bP:187:ILE:HD13	1.92	0.52
7:bP:198:ILE:HG23	7:bP:324:PHE:HE2	1.74	0.52
7:cA:411:ARG:O	7:cA:415:VAL:HB	2.10	0.52
7:cD:411:ARG:HG3	7:cD:415:VAL:HG21	1.92	0.52
7:cD:459:ASP:OD2	7:cD:466:ARG:NH1	2.43	0.52
7:cE:576:ASN:HD22	7:cE:618:ILE:HG23	1.74	0.52
7:cF:514:ARG:NH1	7:cG:366:GLU:OE2	2.42	0.52
7:cG:345:SER:O	7:cG:346:SER:OG	2.24	0.52
7:cI:394:VAL:HG11	7:cI:443:ILE:HD12	1.91	0.52
7:cJ:494:TYR:O	7:cJ:498:GLN:NE2	2.40	0.52
7:cN:417:ILE:HD13	7:cN:417:ILE:H	1.74	0.52
7:cP:441:PHE:CZ	7:cP:443:ILE:HD11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dV:91:ASN:HB2	7:dV:193:ILE:HG23	1.91	0.52
8:eW:522:LYS:NZ	8:eW:532:GLU:O	2.35	0.52
8:fU:281:ASN:OD1	8:fU:316:GLY:N	2.42	0.52
8:fW:418:THR:HG21	8:fW:464:MET:HE1	1.92	0.52
8:fr:83:ALA:O	8:fr:326:ARG:NH2	2.42	0.52
8:fs:223:ILE:HD11	8:fs:243:ILE:HD11	1.91	0.52
9:gG:490:VAL:HG12	9:gG:492:GLY:H	1.75	0.52
11:hj:142:LEU:HD22	11:hu:41:LEU:HD13	1.90	0.52
11:hl:64:ARG:NH1	11:hm:95:GLN:HG3	2.24	0.52
11:hn:58:ILE:HD11	11:hs:6:VAL:HG21	1.92	0.52
12:iD:221:GLN:OE1	16:pA:315:GLN:NE2	2.42	0.52
17:q5:158:LEU:HD21	17:q5:218:MET:HE3	1.92	0.52
17:q7:36:SER:OG	17:q7:37:LEU:N	2.42	0.52
1:S0:527:GLU:OXT	1:S5:339:ARG:NH2	2.40	0.52
1:S4:448:ALA:N	1:S6:485:ASN:OD1	2.42	0.52
1:SA:106:ALA:HA	1:Sy:118:PRO:HB3	1.91	0.52
1:SO:220:SER:OG	1:SO:226:GLY:O	2.27	0.52
1:Sv:302:ILE:HG22	1:Sv:304:ASP:H	1.73	0.52
1:Sz:6:TYR:CE1	4:Wj:234:GLN:HG2	2.44	0.52
2:T4:66:TYR:OH	2:T4:69:LYS:NZ	2.41	0.52
2:T8:96:VAL:HG11	2:T8:109:PHE:CZ	2.44	0.52
2:Td:215:LYS:HG3	2:Td:239:ARG:HG2	1.91	0.52
2:Tg:286:VAL:HG21	2:Ti:134:SER:H	1.75	0.52
3:Us:9:GLY:C	3:Uu:13:ARG:HD2	2.35	0.52
3:Ut:148:ASP:OD1	3:Ut:148:ASP:N	2.43	0.52
3:Vp:10:VAL:HG21	3:Vr:10:VAL:HG21	1.91	0.52
4:WJ:172:GLN:HG2	4:WJ:173:GLY:H	1.74	0.52
4:WJ:469:PRO:HA	4:WJ:472:TYR:CZ	2.44	0.52
4:WK:331:CYS:HB2	4:WK:351:GLN:HE22	1.73	0.52
4:Wj:216:GLY:HA2	4:Wj:231:ARG:HD2	1.92	0.52
4:Wk:115:ASP:OD2	4:Wk:137:TYR:OH	2.16	0.52
4:Wl:455:PRO:O	4:Wl:458:THR:OG1	2.21	0.52
4:Wm:314:ASN:N	4:Wm:380:ILE:O	2.32	0.52
4:Wn:180:VAL:HG13	4:Wn:181:PHE:H	1.75	0.52
4:Xo:422:LEU:HD13	4:Xo:428:ILE:HD12	1.91	0.52
5:YC:851:ASN:HD22	8:eB:389:ARG:HD2	1.75	0.52
5:Yc:378:LEU:HA	5:Yc:403:ILE:HA	1.92	0.52
5:Yc:740:ILE:HG22	5:Yc:742:ALA:H	1.75	0.52
5:Yy:473:TYR:OH	6:aD:70:ASP:OD2	2.28	0.52
6:aD:261:ALA:O	6:aD:266:ASN:ND2	2.33	0.52
6:aa:49:SER:OG	6:aa:50:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b8:66:MET:HB3	7:b8:468:VAL:HG11	1.92	0.52
7:b9:485:SER:OG	7:b9:486:GLN:N	2.43	0.52
7:bO:120:TYR:HE2	7:bO:157:VAL:HG11	1.74	0.52
7:bP:57:PRO:HA	7:bP:61:THR:HB	1.91	0.52
7:cB:470:LEU:HD23	7:cB:525:VAL:HG21	1.91	0.52
7:cF:44:VAL:HG11	7:cF:50:LEU:HB2	1.90	0.52
7:cG:2:THR:OG1	7:cG:3:LEU:N	2.39	0.52
7:cG:41:ILE:HD11	7:cG:361:PHE:HB3	1.91	0.52
7:cH:151:ILE:O	7:cH:155:LYS:HG2	2.10	0.52
7:cL:438:ASP:OD1	7:cL:438:ASP:N	2.41	0.52
7:dV:455:LYS:HB2	7:dV:470:LEU:HD13	1.91	0.52
8:eB:340:VAL:O	8:eB:341:THR:OG1	2.21	0.52
8:eU:273:ILE:HG22	8:eU:275:THR:HG22	1.92	0.52
8:fr:332:LYS:HE3	8:fr:348:PHE:CE1	2.43	0.52
8:fr:357:ILE:HD12	8:fr:376:ALA:HB1	1.92	0.52
11:h2:140:LEU:HD13	11:h2:153:PHE:HB3	1.91	0.52
11:hI:48:LYS:HG3	11:hI:59:ASN:HB3	1.92	0.52
11:hk:39:THR:HG22	11:hk:71:VAL:HG22	1.92	0.52
11:hx:17:ARG:HG3	11:hx:20:LEU:HD12	1.92	0.52
12:iD:92:HIS:NE2	12:iD:108:GLU:OE1	2.42	0.52
16:o0:307:LYS:HB2	16:o1:262:LEU:HD23	1.92	0.52
16:o1:303:LYS:HE3	16:o1:307:LYS:HZ3	1.74	0.52
16:pB:246:ILE:HD11	16:pB:262:LEU:HB2	1.91	0.52
1:S0:212:PRO:HB3	1:S5:199:VAL:HA	1.90	0.52
1:S4:40:SER:O	1:S6:24:ASN:ND2	2.42	0.52
1:S7:160:MET:HG3	1:S7:165:THR:HG21	1.91	0.52
1:SA:221:THR:HG23	1:SA:224:TYR:H	1.73	0.52
1:SO:210:ILE:HG23	1:SQ:210:ILE:HG23	1.92	0.52
1:SP:371:ASP:OD1	1:SP:526:LYS:NZ	2.36	0.52
1:Sy:47:VAL:N	1:Sy:48:PRO:HD2	2.24	0.52
1:Sz:27:PRO:HA	1:Sz:29:ILE:HD11	1.91	0.52
1:Sz:166:GLN:HA	1:Sz:170:ILE:HD12	1.92	0.52
3:UM:4:LEU:HD22	4:WK:356:TYR:HB2	1.92	0.52
3:UN:117:THR:H	3:UN:120:MET:HE3	1.74	0.52
3:Ur:35:VAL:HG13	3:Ur:58:ASP:HB2	1.92	0.52
3:Ur:142:ALA:H	3:Ur:161:LEU:HD12	1.74	0.52
4:WI:26:ILE:HG13	4:WJ:30:PHE:HE2	1.75	0.52
4:WI:394:LEU:HD22	4:WK:395:THR:HA	1.92	0.52
4:WK:104:VAL:HG13	4:WK:105:ASN:H	1.74	0.52
4:Wm:229:ASN:OD1	4:Wm:230:ILE:N	2.41	0.52
4:Wo:362:GLU:HB2	4:Wo:366:PRO:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:214:SER:OG	4:XJ:222:LEU:O	2.28	0.52
4:XK:338:ASP:HB3	4:XK:349:TRP:CD1	2.45	0.52
4:Xj:9:ASN:OD1	4:Xj:9:ASN:N	2.41	0.52
4:Xk:290:SER:HA	4:Xk:371:PHE:N	2.18	0.52
4:Xl:167:PHE:HE2	4:Xl:244:ILE:HD12	1.75	0.52
5:YC:378:LEU:HA	5:YC:403:ILE:HA	1.92	0.52
5:YX:138:ASN:OD1	5:YX:138:ASN:N	2.40	0.52
5:YX:438:GLY:O	5:YX:439:LYS:HG2	2.09	0.52
5:YX:724:ALA:C	5:YX:726:PHE:H	2.18	0.52
5:Yc:649:ILE:HA	5:Yc:652:MET:HE2	1.91	0.52
6:ZD:49:SER:HG	6:ZD:50:ASN:H	1.58	0.52
6:ZZ:72:TRP:CD1	6:ZZ:305:HIS:HD2	2.28	0.52
6:aa:87:ASP:HB3	6:aa:209:VAL:HG13	1.91	0.52
6:ab:277:ASN:HB3	6:ab:291:LYS:HE2	1.91	0.52
7:b3:490:SER:O	7:b3:496:ARG:NH1	2.42	0.52
7:b7:140:ILE:O	7:b7:141:LYS:NZ	2.40	0.52
7:bO:400:ARG:HD3	7:bO:403:CYS:SG	2.50	0.52
7:bP:311:ILE:HB	7:bP:327:ALA:HB2	1.92	0.52
7:cC:57:PRO:HG3	7:cC:65:PHE:CD1	2.44	0.52
7:cF:423:VAL:HG21	7:cF:513:GLN:HB3	1.92	0.52
7:cJ:459:ASP:OD2	7:cJ:466:ARG:NH1	2.42	0.52
7:cK:430:ARG:HG3	7:cK:522:ILE:HD11	1.91	0.52
7:cO:28:ALA:HB2	7:cO:370:VAL:HG21	1.91	0.52
7:cP:423:VAL:HG13	7:cP:517:LEU:HD13	1.91	0.52
7:dS:23:SER:OG	7:dS:24:THR:N	2.42	0.52
7:dV:427:VAL:HG13	7:dV:520:GLU:HG3	1.91	0.52
7:dW:518:TYR:CZ	7:dZ:8:ILE:HD11	2.45	0.52
8:fR:538:VAL:HB	8:fR:556:GLY:HA3	1.92	0.52
8:fU:364:THR:OG1	8:fU:365:ASP:N	2.43	0.52
9:gE:25:GLY:HA3	9:gE:73:VAL:HG12	1.92	0.52
9:gE:420:THR:HG23	9:gE:434:THR:HA	1.91	0.52
9:gG:12:VAL:HG21	12:iC:256:HIS:CE1	2.45	0.52
11:hj:136:ASN:O	11:hj:136:ASN:ND2	2.43	0.52
11:hs:63:ASP:HB3	11:hw:147:ASN:HB3	1.90	0.52
14:IV:6:PHE:CE1	14:IV:192:TYR:HB2	2.44	0.52
15:m2:115:ASN:OD1	15:m2:115:ASN:N	2.38	0.52
16:o6:10:ASP:OD1	16:o6:10:ASP:N	2.43	0.52
17:q4:185:VAL:HG23	17:q4:186:THR:HG23	1.91	0.52
17:q7:165:ASP:OD1	17:q7:166:SER:N	2.40	0.52
1:S0:55:LYS:HB3	1:S7:57:ILE:HG22	1.92	0.52
1:S2:422:LYS:NZ	1:S3:498:SER:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:446:LYS:N	1:S3:503:ASN:OD1	2.43	0.52
1:S5:405:ARG:NH2	1:S5:409:LEU:O	2.42	0.52
1:SA:41:PRO:HA	1:Sw:24:ASN:HD22	1.75	0.52
1:Sv:480:ARG:NH1	1:Sx:463:THR:O	2.42	0.52
2:T1:121:PRO:HB3	2:T1:140:THR:HG22	1.92	0.52
2:T4:216:THR:HG21	2:T6:222:LEU:HD13	1.92	0.52
2:T8:18:ALA:HB3	2:T8:23:ILE:HG23	1.91	0.52
2:Te:44:ASP:HB3	2:Te:47:LYS:HE3	1.91	0.52
3:UL:129:VAL:O	3:UL:133:LEU:HG	2.08	0.52
3:Us:114:VAL:HG21	3:Us:129:VAL:HG22	1.92	0.52
3:VL:73:ASN:ND2	3:VL:76:GLY:H	2.07	0.52
3:Vp:114:VAL:HG21	3:Vp:129:VAL:HG22	1.92	0.52
3:Vr:70:ILE:HG12	3:Vt:73:ASN:HA	1.91	0.52
3:Vu:90:PHE:HE1	3:Vu:178:ILE:HG23	1.74	0.52
4:WI:302:GLU:HG3	4:WI:303:PRO:HD2	1.92	0.52
4:WK:507:ASP:OD1	4:WK:511:ASN:N	2.38	0.52
4:Wk:26:ILE:HG13	4:Wm:30:PHE:HE2	1.75	0.52
4:Wk:163:ALA:H	4:Wk:246:THR:HG22	1.75	0.52
4:Wn:213:GLY:O	4:Wn:214:SER:OG	2.28	0.52
4:Wo:195:HIS:NE2	4:Wo:232:LEU:HD21	2.25	0.52
4:XJ:490:TRP:NE1	4:XJ:500:ALA:O	2.43	0.52
4:XK:322:GLY:HA2	4:XK:360:THR:H	1.74	0.52
4:XK:400:ILE:O	4:XK:403:THR:OG1	2.28	0.52
4:Xj:164:ARG:NE	4:Xj:166:GLU:OE2	2.42	0.52
4:Xm:277:GLU:HA	4:Xm:295:ALA:HA	1.92	0.52
4:Xn:20:ARG:HB2	5:Yx:923:SER:N	2.25	0.52
4:Xo:293:PHE:HB2	4:Xo:296:PHE:CG	2.44	0.52
5:YX:304:VAL:HG22	5:YX:327:ARG:HH21	1.75	0.52
5:YY:20:GLN:HE22	5:YY:130:ASN:HD21	1.56	0.52
5:YY:347:GLU:HB2	5:YY:349:LEU:HD23	1.92	0.52
5:YY:613:LYS:O	5:YY:615:THR:N	2.40	0.52
5:Yc:871:PRO:HA	5:Yc:894:THR:HB	1.91	0.52
5:Yx:240:GLN:HB3	5:Yx:245:THR:HA	1.92	0.52
6:ZE:44:SER:HB3	6:ZE:76:MET:HE3	1.92	0.52
7:b0:642:PHE:CE1	7:cI:564:ILE:HD11	2.45	0.52
7:b5:505:LEU:HD21	7:b5:525:VAL:HG12	1.91	0.52
7:b7:490:SER:O	7:b7:496:ARG:NH1	2.43	0.52
7:bO:99:ILE:HA	7:bO:187:ILE:HD13	1.91	0.52
7:bP:199:GLU:HB2	7:cN:467:TRP:CZ3	2.45	0.52
7:dU:90:LYS:NZ	7:dU:190:ASP:OD1	2.41	0.52
8:eB:545:ARG:HG3	8:eB:549:GLY:HA2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eU:230:ILE:H	8:eU:230:ILE:HD12	1.74	0.52
8:fU:356:ILE:HG21	8:fU:388:GLN:CD	2.34	0.52
8:fr:557:PRO:HB3	8:fr:589:TYR:CZ	2.44	0.52
8:fs:104:SER:O	8:fs:316:GLY:HA2	2.08	0.52
9:gG:280:MET:O	9:gG:284:MET:HG2	2.10	0.52
11:he:99:ILE:O	11:hu:120:ALA:HB2	2.10	0.52
11:hn:120:ALA:HB3	11:hn:121:LYS:HD2	1.91	0.52
11:hw:56:ARG:NH2	11:hy:96:GLY:O	2.33	0.52
11:hz:56:ARG:HH11	11:hz:56:ARG:HB3	1.75	0.52
12:iC:100:LYS:HE3	16:o0:194:ARG:O	2.09	0.52
16:pA:56:ASP:OD1	16:pA:56:ASP:N	2.43	0.52
16:pA:91:ILE:O	16:pA:96:ARG:HB2	2.09	0.52
16:pB:346:ILE:HD12	16:pB:348:MET:HE2	1.92	0.52
1:S1:40:SER:O	1:S2:24:ASN:ND2	2.43	0.52
1:S8:296:ILE:HG22	1:S8:298:GLY:H	1.75	0.52
1:SA:444:TYR:CZ	1:Sw:504:ARG:HD2	2.44	0.52
1:Sv:21:THR:HG21	1:Sz:14:ARG:HH21	1.75	0.52
1:Sv:221:THR:HG23	1:Sv:223:GLU:H	1.75	0.52
1:Sw:472:ARG:HH21	4:WK:361:ASP:HB3	1.74	0.52
1:Sy:406:GLY:H	1:Sy:409:LEU:HD12	1.74	0.52
2:T3:124:ILE:HD12	2:T3:137:LEU:HD23	1.91	0.52
2:T6:43:GLY:O	2:T6:68:GLN:NE2	2.38	0.52
2:Ti:232:SER:HB3	2:Ti:254:PHE:HD2	1.75	0.52
3:Up:6:ASN:HB3	3:Ur:12:SER:HB3	1.92	0.52
4:WI:192:ARG:NH2	4:WJ:245:GLU:OE1	2.43	0.52
4:WI:265:LEU:HG	4:WI:379:ASP:HB2	1.91	0.52
4:WJ:268:SER:OG	4:WJ:269:LYS:N	2.43	0.52
4:WK:96:ARG:NH1	4:WK:132:ASP:OD2	2.43	0.52
4:Wk:110:VAL:HG22	4:Wk:123:PRO:HB3	1.91	0.52
4:Wk:293:PHE:CE1	4:Wk:366:PRO:HB2	2.45	0.52
4:Wm:150:GLN:C	4:Wm:151:ILE:HG13	2.35	0.52
4:Xk:118:LYS:HE3	4:Xk:144:GLU:HA	1.91	0.52
4:Xk:372:ASP:OD1	4:Xk:372:ASP:N	2.42	0.52
4:Xm:469:PRO:HA	4:Xm:472:TYR:CZ	2.45	0.52
5:YX:324:ASP:HB2	5:YX:357:ILE:HG22	1.90	0.52
5:YX:944:HIS:HA	5:YX:951:ALA:HA	1.91	0.52
5:YY:207:PRO:HA	5:YY:229:VAL:HG23	1.91	0.52
5:YY:657:TYR:OH	8:eW:50:GLY:HA2	2.09	0.52
5:Yc:43:THR:HG23	5:Yc:50:PRO:HG3	1.92	0.52
5:Yc:613:LYS:O	5:Yc:615:THR:N	2.41	0.52
5:Yc:929:TYR:O	5:Yc:931:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:426:ARG:HH11	5:Yx:490:PHE:HZ	1.58	0.52
5:Yx:731:SER:OG	8:fr:333:ARG:NH2	2.43	0.52
5:Yx:830:ARG:HB3	5:Yx:831:LEU:HD12	1.91	0.52
5:Yy:438:GLY:O	5:Yy:439:LYS:HG2	2.09	0.52
6:Za:19:GLU:OE2	6:Zc:35:ASN:ND2	2.43	0.52
6:aE:313:GLU:O	6:aE:314:ASN:ND2	2.43	0.52
7:b4:617:VAL:HG22	7:b4:622:GLU:HB2	1.92	0.52
7:b7:202:GLU:OE1	7:b7:203:ALA:N	2.36	0.52
7:b9:237:GLU:OE1	7:b9:284:ARG:NH1	2.34	0.52
7:bO:199:GLU:HB2	7:cM:467:TRP:CZ3	2.45	0.52
7:bP:406:LEU:HD13	7:bP:475:ALA:HB2	1.91	0.52
7:bR:76:ASN:O	7:bR:76:ASN:ND2	2.41	0.52
7:cG:10:LEU:HD13	7:cP:561:LYS:HB3	1.92	0.52
7:cI:23:SER:O	7:cI:76:ASN:HB2	2.09	0.52
7:cJ:453:ASN:HB2	7:cJ:506:ALA:HB3	1.92	0.52
7:cO:220:PRO:HG2	7:cO:338:LEU:HD11	1.92	0.52
7:cP:417:ILE:HD13	7:cP:417:ILE:H	1.74	0.52
7:dS:153:LYS:NZ	8:fB:298:ILE:O	2.30	0.52
7:dU:518:TYR:CZ	7:dV:8:ILE:HD11	2.44	0.52
8:f9:220:THR:O	8:f9:223:ILE:HD11	2.10	0.52
8:fU:174:ARG:HB3	8:fU:271:GLU:HG2	1.92	0.52
8:fs:593:GLY:HA3	8:fs:604:TRP:HA	1.92	0.52
9:gE:183:ASP:OD2	9:gE:339:TYR:OH	2.27	0.52
9:gE:432:ARG:HH22	9:gG:432:ARG:HD2	1.74	0.52
11:hn:48:LYS:HG3	11:hn:59:ASN:HB3	1.91	0.52
11:hs:23:VAL:HG11	11:hs:39:THR:HG21	1.92	0.52
11:hu:48:LYS:HG3	11:hu:59:ASN:HB3	1.92	0.52
11:hw:98:GLU:OE1	11:hw:98:GLU:N	2.39	0.52
12:iD:199:ASP:OD1	12:iD:200:TYR:N	2.42	0.52
12:iD:297:ARG:NH1	13:jc:587:THR:OG1	2.43	0.52
14:k7:1:MET:O	14:k7:4:THR:HG22	2.10	0.52
16:o6:313:PRO:O	16:o6:351:ILE:HG12	2.10	0.52
17:q7:178:VAL:HG21	17:q7:223:VAL:HG12	1.92	0.52
17:q9:178:VAL:HG21	17:q9:223:VAL:HG12	1.91	0.52
1:S1:62:THR:N	1:S1:65:GLU:OE1	2.42	0.52
1:S1:405:ARG:NH2	1:S1:409:LEU:O	2.42	0.52
1:S2:264:LYS:NZ	1:S2:276:ASP:OD2	2.36	0.52
1:S4:55:LYS:HB3	1:S8:57:ILE:HG22	1.91	0.52
1:S5:422:LYS:NZ	1:S7:498:SER:O	2.42	0.52
1:S6:212:PRO:HB3	1:S8:199:VAL:HA	1.90	0.52
1:S6:382:ARG:HH22	1:S6:434:VAL:HB	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:514:PRO:O	1:S6:516:ASN:ND2	2.43	0.52
1:SA:20:PRO:HG3	1:SA:29:ILE:HG13	1.91	0.52
1:SA:365:GLY:HA2	1:Sx:71:ASN:HB2	1.92	0.52
1:SO:212:PRO:HG3	1:SP:199:VAL:HG12	1.92	0.52
1:SP:472:ARG:HG3	1:SP:473:LYS:HG3	1.92	0.52
1:Sv:77:THR:HG22	1:Sv:80:THR:H	1.74	0.52
1:Sx:151:LEU:HD12	1:Sx:171:LYS:HE2	1.92	0.52
2:T4:10:ILE:HB	2:T8:32:ASN:HD21	1.75	0.52
2:TF:98:ILE:HG21	2:TF:107:VAL:HG21	1.92	0.52
2:Tg:46:ARG:NH2	2:Tg:66:TYR:OH	2.40	0.52
3:VN:90:PHE:O	3:VN:154:SER:HB2	2.09	0.52
3:Vq:42:GLN:HE21	3:Vq:53:GLU:HB3	1.74	0.52
3:Vq:129:VAL:O	3:Vq:133:LEU:HG	2.09	0.52
4:Wl:214:SER:OG	4:Wl:222:LEU:O	2.27	0.52
4:Wj:569:TYR:HD1	4:Wl:544:VAL:HA	1.75	0.52
4:Wk:33:LEU:HA	4:Wm:43:PRO:HG3	1.91	0.52
4:Wl:49:TRP:HZ3	4:Wl:96:ARG:HD2	1.75	0.52
4:Wl:162:VAL:HB	4:Wl:247:PHE:HD1	1.75	0.52
4:Wl:313:PHE:HA	4:Wl:381:ILE:HA	1.92	0.52
4:Wl:490:TRP:NE1	4:Wl:500:ALA:O	2.41	0.52
4:Wn:223:VAL:HB	4:Wn:224:PRO:HD3	1.91	0.52
4:Wn:342:CYS:HB3	4:Wn:349:TRP:CH2	2.45	0.52
4:Wo:312:ARG:HD3	4:Wo:317:LEU:HB2	1.92	0.52
4:Xj:119:GLY:HA2	4:Xj:404:ASP:OD1	2.10	0.52
4:Xl:558:ASP:O	4:Xl:560:ASP:N	2.39	0.52
4:Xn:394:LEU:HD13	4:Xn:398:GLU:HG2	1.92	0.52
4:Xo:188:VAL:HG23	4:Xo:225:LEU:HD22	1.90	0.52
4:Xo:323:THR:HG23	4:Xo:359:GLU:HB2	1.92	0.52
5:YY:586:LEU:HD11	5:YY:594:ILE:HD13	1.91	0.52
5:Yc:404:TYR:HA	5:Yc:415:ARG:HA	1.91	0.52
5:Yx:110:PHE:HB3	5:Yx:619:LEU:HD11	1.91	0.52
5:Yy:69:PHE:CZ	5:Yy:71:ASP:HB2	2.45	0.52
5:Yy:371:ILE:HG23	5:Yy:496:SER:HB2	1.92	0.52
7:b0:470:LEU:HD23	7:b0:525:VAL:HG21	1.91	0.52
7:b0:561:LYS:HB3	7:b6:10:LEU:HD13	1.91	0.52
7:b0:655:THR:HB	7:cA:19:VAL:HG21	1.91	0.52
7:b5:34:GLN:OE1	7:b5:58:THR:OG1	2.21	0.52
7:b6:455:LYS:HB3	7:b6:470:LEU:HD13	1.92	0.52
7:b9:486:GLN:NE2	11:ho:11:GLU:OE1	2.43	0.52
7:bY:26:THR:HA	7:bY:77:ASP:O	2.10	0.52
7:cB:34:GLN:OE1	7:cB:58:THR:OG1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cE:417:ILE:HD13	7:cE:417:ILE:H	1.73	0.52
7:cH:66:MET:HG2	7:cH:468:VAL:HG21	1.91	0.52
7:cI:281:ILE:HG13	7:cI:295:LEU:HD12	1.91	0.52
7:cL:36:GLY:O	7:cL:82:ARG:NH1	2.43	0.52
7:cL:593:GLN:NE2	11:hX:4:ASP:OD2	2.38	0.52
7:cN:455:LYS:NZ	7:cN:457:GLN:OE1	2.43	0.52
7:dT:642:PHE:HE1	15:mT:108:ILE:HD12	1.75	0.52
7:dU:639:THR:HG23	15:m5:105:ILE:HA	1.92	0.52
7:dW:237:GLU:OE1	7:dW:284:ARG:NH1	2.33	0.52
7:dW:490:SER:OG	7:dW:538:ASP:OD2	2.26	0.52
8:eU:174:ARG:HB3	8:eU:271:GLU:HG2	1.92	0.52
8:eW:555:ILE:HD12	8:eW:592:ILE:HD11	1.91	0.52
8:fU:396:LEU:O	8:fU:400:ASN:ND2	2.42	0.52
8:fs:113:THR:HG23	8:fs:299:ASN:HB3	1.92	0.52
8:fs:493:LYS:NZ	8:fs:494:THR:O	2.42	0.52
11:h1:83:GLN:HA	11:h1:86:VAL:HG22	1.92	0.52
11:h2:113:VAL:HG13	11:h2:127:ILE:HG12	1.91	0.52
11:hk:23:VAL:HG11	11:hk:39:THR:HG21	1.92	0.52
11:hm:39:THR:HG22	11:hm:71:VAL:HG22	1.91	0.52
11:hu:114:ARG:HG2	11:hu:126:GLU:HG3	1.92	0.52
12:iD:6:ARG:HB2	12:iD:9:TYR:HB2	1.92	0.52
12:iF:17:PHE:CE2	12:iF:28:PHE:HB3	2.45	0.52
1:S0:349:TRP:NE1	1:S0:353:SER:O	2.44	0.51
1:S0:525:VAL:HG23	1:S0:526:LYS:HG2	1.92	0.51
1:S2:14:ARG:HG2	1:S2:33:GLN:HG2	1.92	0.51
1:S2:60:ILE:HD11	1:S2:77:THR:HB	1.92	0.51
1:S4:66:VAL:HG21	1:S4:80:THR:HB	1.92	0.51
1:S4:383:TYR:CG	1:S4:393:PRO:HG3	2.46	0.51
1:S4:519:LEU:HA	1:S6:434:VAL:HG13	1.91	0.51
1:S5:145:SER:OG	1:S5:159:ALA:O	2.23	0.51
1:S5:520:ASN:OD1	1:S7:403:SER:OG	2.29	0.51
1:Sv:62:THR:N	1:Sv:65:GLU:OE1	2.43	0.51
2:T1:70:HIS:HB2	2:T1:75:TYR:CZ	2.45	0.51
2:T4:61:ILE:HG13	2:T6:38:ILE:HG12	1.92	0.51
2:T5:194:ARG:HG3	2:T5:195:THR:HG23	1.92	0.51
2:T8:89:THR:HG22	2:T8:94:VAL:HG13	1.91	0.51
2:T9:219:ILE:HG21	2:T9:254:PHE:HE2	1.74	0.51
3:Up:4:LEU:HD13	4:Wl:356:TYR:HE2	1.75	0.51
3:Vt:80:GLU:HG2	3:Vt:192:THR:HA	1.92	0.51
4:Wj:322:GLY:HA2	4:Wj:360:THR:H	1.75	0.51
4:Wj:358:VAL:HG13	4:Wj:369:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:313:PHE:HB3	4:Wm:381:ILE:HG12	1.91	0.51
4:Wn:494:ILE:HA	4:Wn:500:ALA:HB1	1.92	0.51
4:XI:483:GLN:NE2	4:XJ:492:GLU:OE2	2.43	0.51
4:XJ:150:GLN:C	4:XJ:151:ILE:HG13	2.35	0.51
4:Xl:255:ARG:HH21	4:Xn:249:ASP:HB2	1.75	0.51
4:Xm:261:ARG:HH21	4:Xm:299:ILE:HD13	1.75	0.51
4:Xm:312:ARG:HG2	4:Xm:317:LEU:HA	1.92	0.51
4:Xn:362:GLU:HG3	4:Xn:367:GLU:HB2	1.91	0.51
5:YY:336:ILE:HG13	5:YY:338:PHE:H	1.75	0.51
5:YY:400:ASP:OD1	5:YY:404:TYR:OH	2.26	0.51
5:YY:438:GLY:O	5:YY:439:LYS:HG2	2.10	0.51
5:Yx:148:ASN:HB2	5:Yx:168:ILE:HG13	1.92	0.51
5:Yx:807:LEU:HD23	5:Yx:807:LEU:H	1.75	0.51
5:Yy:255:TYR:HB3	5:Yy:297:TYR:HB2	1.92	0.51
5:Yy:256:GLY:HA2	5:Yy:294:PHE:CD1	2.45	0.51
5:Yy:680:GLY:HA3	8:fS:6:VAL:HG11	1.92	0.51
6:ZE:140:GLY:HA3	6:ZE:162:PRO:HA	1.91	0.51
6:aD:250:LYS:NZ	6:aD:327:GLU:OE2	2.43	0.51
6:ab:226:GLU:OE1	6:ab:227:ASP:N	2.43	0.51
7:b3:484:VAL:HG13	7:b3:485:SER:H	1.75	0.51
7:b8:28:ALA:HB2	7:b8:370:VAL:HG21	1.92	0.51
7:bR:485:SER:OG	7:bR:486:GLN:N	2.41	0.51
7:cA:11:LYS:HG2	7:cA:13:THR:HG23	1.92	0.51
7:cD:110:TYR:CE1	7:cD:171:ILE:HD12	2.45	0.51
7:cJ:40:GLN:H	7:cJ:81:VAL:HG23	1.75	0.51
7:cL:297:THR:HG22	7:cL:311:ILE:HD12	1.93	0.51
7:cM:346:SER:O	7:cM:348:ALA:N	2.43	0.51
7:cN:313:ASP:OD1	7:cN:313:ASP:N	2.43	0.51
8:fA:448:TYR:CG	8:fA:642:PHE:HB2	2.45	0.51
8:fB:135:ALA:HA	8:fB:283:ALA:HA	1.92	0.51
8:fU:76:TYR:OH	14:k3:29:PHE:O	2.24	0.51
8:fr:109:GLU:HG3	8:fr:165:LEU:O	2.10	0.51
9:gE:175:SER:HB2	9:gE:178:GLU:HG3	1.92	0.51
9:gH:35:HIS:HD2	9:gH:47:ILE:HD12	1.75	0.51
11:he:22:GLN:HB2	11:he:116:TYR:HE2	1.74	0.51
12:iC:11:ASN:HD22	12:iC:75:ALA:HB3	1.74	0.51
14:k4:8:PRO:O	16:o2:96:ARG:NH2	2.39	0.51
14:IV:94:TYR:CE1	14:IV:156:TYR:HB3	2.45	0.51
17:q4:92:MET:HE2	17:q4:108:THR:HA	1.93	0.51
1:S0:251:ASN:O	1:S5:260:ARG:NH1	2.43	0.51
1:S1:141:VAL:HG22	1:S2:139:ASN:HB2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:71:ASN:HB2	1:SQ:365:GLY:HA2	1.92	0.51
1:S2:99:ARG:HG2	1:S2:100:TYR:H	1.75	0.51
1:S4:257:THR:O	1:S8:273:SER:OG	2.28	0.51
1:S5:472:ARG:HH21	4:Wo:361:ASP:HB3	1.75	0.51
1:S7:246:THR:N	1:S7:249:THR:OG1	2.35	0.51
1:SA:525:VAL:HG23	1:SA:526:LYS:HG2	1.93	0.51
1:SO:4:ASN:O	1:SO:15:TYR:OH	2.25	0.51
1:Sv:77:THR:HG21	1:Sx:72:ASN:HA	1.91	0.51
1:Sx:77:THR:HG23	1:Sx:80:THR:H	1.75	0.51
1:Sx:170:ILE:HG23	1:Sz:173:ILE:HB	1.92	0.51
2:T4:212:ARG:HG3	2:T4:213:LYS:HG3	1.93	0.51
2:T6:64:THR:HA	2:T8:84:ARG:HE	1.74	0.51
2:T8:40:ASN:HB3	2:T8:45:GLN:HG2	1.93	0.51
2:Te:31:ILE:HD13	2:Tg:31:ILE:HD11	1.91	0.51
2:Th:100:ARG:NH1	2:Th:155:ASN:O	2.43	0.51
3:UL:54:SER:O	3:UM:164:GLN:NE2	2.43	0.51
3:UM:88:TRP:HZ3	3:UM:133:LEU:HD21	1.76	0.51
3:VL:126:VAL:HG13	3:VL:156:LEU:HD11	1.91	0.51
3:Vq:10:VAL:HG13	3:Vs:13:ARG:HG3	1.92	0.51
4:WI:18:TYR:CE2	5:YC:942:ILE:HD11	2.45	0.51
4:WK:72:THR:OG1	4:WK:101:THR:O	2.28	0.51
4:Wk:23:GLY:C	4:Wk:25:LYS:H	2.18	0.51
4:Wl:38:GLY:HA2	4:Wl:43:PRO:HA	1.93	0.51
4:Wo:276:LEU:H	4:Wo:280:ILE:HG22	1.75	0.51
4:XK:92:VAL:HG12	4:XK:136:VAL:HG12	1.91	0.51
4:Xj:215:PRO:HD2	4:Xj:225:LEU:HA	1.92	0.51
4:Xk:119:GLY:HA2	4:Xk:404:ASP:CG	2.35	0.51
4:Xk:193:VAL:HG13	4:Xk:199:GLU:HB3	1.92	0.51
4:Xk:200:LEU:HD11	4:Xm:241:THR:HG21	1.92	0.51
4:Xm:176:ASP:N	4:Xm:176:ASP:OD1	2.43	0.51
5:YX:81:ARG:HD2	5:YX:94:TRP:HB3	1.93	0.51
5:YX:1013:LYS:HE3	5:YX:1022:PRO:HG3	1.92	0.51
5:YY:256:GLY:HA2	5:YY:294:PHE:CD1	2.45	0.51
5:Yc:484:HIS:ND1	6:ZE:232:GLN:OE1	2.24	0.51
5:Yc:773:GLN:NE2	5:Yc:808:GLN:OE1	2.43	0.51
5:Yx:327:ARG:HG2	5:Yx:354:THR:H	1.75	0.51
5:Yx:586:LEU:HD21	5:Yx:594:ILE:HG12	1.93	0.51
5:Yy:555:ARG:HB3	5:Yy:558:HIS:HE1	1.74	0.51
6:Za:132:ARG:NE	6:Za:189:GLU:OE2	2.39	0.51
7:b5:576:ASN:HD22	7:b5:618:ILE:HG23	1.74	0.51
7:b9:246:LYS:HB2	7:b9:250:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b9:423:VAL:HG13	7:b9:517:LEU:HD13	1.92	0.51
7:bN:99:ILE:HD12	7:bN:150:ILE:HD13	1.91	0.51
7:bN:303:ASP:OD1	7:bN:304:ILE:N	2.44	0.51
7:bN:549:ASP:OD2	7:bO:271:TYR:OH	2.18	0.51
7:bP:639:THR:HB	7:dU:624:VAL:HG12	1.92	0.51
7:bQ:487:THR:HG21	7:bQ:559:MET:HE3	1.92	0.51
7:bY:240:SER:OG	7:bY:241:LYS:N	2.44	0.51
7:bY:406:LEU:HD13	7:bY:475:ALA:HB2	1.92	0.51
7:cD:246:LYS:HB2	7:cD:250:ALA:HB2	1.92	0.51
7:cI:542:THR:OG1	7:cI:544:VAL:O	2.28	0.51
7:cO:655:THR:HB	7:cP:19:VAL:HG21	1.91	0.51
7:dU:490:SER:OG	7:dU:538:ASP:OD2	2.28	0.51
7:dV:403:CYS:O	7:dV:558:ASN:ND2	2.43	0.51
8:eW:420:LEU:HD12	8:eW:480:ALA:HB2	1.92	0.51
8:eW:522:LYS:HE3	8:eW:530:LEU:HD22	1.92	0.51
8:fA:344:ASP:O	8:fA:347:THR:OG1	2.26	0.51
8:fB:45:ASP:O	8:fB:47:ASP:N	2.43	0.51
8:fB:230:ILE:HD12	8:fB:230:ILE:H	1.75	0.51
11:hI:97:ASN:O	17:q7:4:LEU:HB3	2.11	0.51
11:hn:97:ASN:HA	11:hq:3:VAL:HG12	1.92	0.51
11:hr:136:ASN:O	11:hr:136:ASN:ND2	2.38	0.51
12:iC:17:PHE:CE2	12:iC:28:PHE:HB3	2.46	0.51
12:iC:360:ASN:ND2	12:iC:362:THR:O	2.43	0.51
17:q4:7:PHE:HA	17:q9:123:LEU:HD13	1.92	0.51
17:q5:100:LEU:HD23	17:q5:100:LEU:H	1.75	0.51
1:S6:47:VAL:HA	1:S6:57:ILE:HD12	1.92	0.51
1:S6:482:TYR:CD2	1:S8:452:GLY:HA2	2.46	0.51
1:SA:487:GLY:HA3	1:SA:508:ILE:HG21	1.91	0.51
1:SA:513:ARG:O	1:Sw:441:GLN:N	2.43	0.51
1:SP:160:MET:HG3	1:SP:165:THR:HG21	1.92	0.51
2:T1:39:TYR:CG	2:T2:7:LYS:HD3	2.46	0.51
2:Tg:8:LYS:HD3	2:Tg:30:LYS:HG2	1.91	0.51
2:Tg:207:GLN:HG3	2:Tg:214:ILE:HB	1.92	0.51
3:UL:40:ILE:HG13	3:UM:168:LEU:HD21	1.93	0.51
3:UL:102:GLY:N	3:UL:118:THR:OG1	2.44	0.51
3:UN:4:LEU:HD13	4:WI:356:TYR:HE2	1.76	0.51
3:Up:125:PHE:O	3:Up:129:VAL:HG23	2.09	0.51
3:Uq:7:LYS:HE3	4:Wm:316:ILE:HD13	1.93	0.51
3:Ur:70:ILE:HG12	3:Ut:73:ASN:HA	1.92	0.51
4:Wk:166:GLU:N	4:Wk:166:GLU:OE1	2.43	0.51
4:Wk:204:ASP:OD1	4:Wk:204:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:258:TYR:HE1	4:Wk:384:THR:HG23	1.74	0.51
4:Wl:111:ALA:HB2	4:Wl:117:ILE:HG23	1.91	0.51
4:Wl:258:TYR:O	4:Wl:259:THR:OG1	2.27	0.51
4:Wl:410:GLN:HG3	4:Wn:408:VAL:H	1.76	0.51
4:Wm:177:PHE:HB2	4:Wm:230:ILE:HD11	1.91	0.51
4:Xl:407:TYR:OH	4:XK:403:THR:HA	2.10	0.51
4:XK:110:VAL:HG22	4:XK:123:PRO:HB3	1.93	0.51
4:Xk:149:LYS:HG3	4:Xm:153:LYS:HZ3	1.74	0.51
4:Xl:199:GLU:OE1	4:Xn:196:ARG:NH2	2.43	0.51
5:YC:360:ASN:HB3	5:YC:361:PRO:CD	2.40	0.51
5:YX:12:ARG:NH1	6:Zb:50:ASN:OD1	2.43	0.51
5:YX:613:LYS:O	5:YX:615:THR:N	2.42	0.51
5:YY:174:HIS:N	5:YY:508:TYR:OH	2.43	0.51
5:YY:932:ARG:HG3	5:YY:1005:ARG:HH22	1.74	0.51
5:Yx:758:ILE:HD11	5:Yx:864:MET:HE2	1.92	0.51
5:Yy:646:ARG:HB3	5:Yy:669:GLU:HG3	1.92	0.51
6:Za:282:LYS:NZ	6:Za:289:ASN:OD1	2.34	0.51
6:aD:174:GLY:HA3	6:aD:180:ILE:HG12	1.91	0.51
6:aa:40:THR:OG1	6:aa:273:SER:OG	2.28	0.51
7:b3:346:SER:O	7:b3:349:GLU:N	2.42	0.51
7:b6:202:GLU:OE1	7:b6:203:ALA:N	2.40	0.51
7:b7:406:LEU:HD13	7:b7:475:ALA:HB2	1.92	0.51
7:b8:109:ASN:H	7:b8:137:ASP:HB2	1.75	0.51
7:bN:417:ILE:H	7:bN:417:ILE:HD13	1.75	0.51
7:bP:308:ASN:ND2	7:bP:313:ASP:OD2	2.44	0.51
7:bQ:159:GLU:OE1	7:bQ:167:TRP:NE1	2.39	0.51
7:bY:494:TYR:CZ	7:dZ:569:LYS:HD3	2.45	0.51
7:cB:237:GLU:OE1	7:cB:284:ARG:NH1	2.32	0.51
7:cD:202:GLU:OE1	7:cD:203:ALA:N	2.39	0.51
7:cO:131:ILE:HD11	7:cO:171:ILE:HD13	1.92	0.51
7:dU:377:SER:OG	7:dU:377:SER:O	2.26	0.51
8:eB:66:TYR:OH	14:kV:56:PRO:HG2	2.10	0.51
8:eU:452:VAL:O	8:eU:457:SER:OG	2.28	0.51
8:eW:400:ASN:HD21	8:eW:406:PRO:HD3	1.75	0.51
8:eW:521:ARG:O	8:eW:533:ASP:HB2	2.10	0.51
8:fR:436:LEU:O	8:fR:440:ILE:HG23	2.10	0.51
8:fU:340:VAL:O	8:fU:341:THR:OG1	2.25	0.51
8:fs:339:CYS:HB3	8:fs:348:PHE:CD2	2.45	0.51
10:gd:29:VAL:HG21	10:gd:69:VAL:HG13	1.92	0.51
11:hg:136:ASN:O	11:hg:136:ASN:ND2	2.43	0.51
11:hs:39:THR:HG22	11:hs:71:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hs:114:ARG:HG2	11:hs:126:GLU:HG3	1.92	0.51
11:hw:140:LEU:HD13	11:hw:153:PHE:HB3	1.92	0.51
15:nT:73:VAL:HG11	15:nT:106:VAL:HG11	1.92	0.51
16:o1:330:ASN:OD1	17:q3:189:ARG:NH2	2.44	0.51
1:S2:512:THR:HA	1:S3:442:MET:HA	1.92	0.51
1:S4:160:MET:SD	1:S4:165:THR:HB	2.50	0.51
1:S4:161:THR:HG21	1:S6:156:ASP:HA	1.93	0.51
1:S5:448:ALA:N	1:S7:485:ASN:OD1	2.35	0.51
1:Sx:462:ASN:N	1:Sx:462:ASN:HD22	2.08	0.51
2:T1:63:ALA:HB3	2:T2:83:THR:HA	1.93	0.51
2:T4:284:ILE:HG23	2:T8:178:THR:HG21	1.93	0.51
2:TF:98:ILE:O	2:TF:127:ILE:HG12	2.11	0.51
3:UN:90:PHE:CE1	3:UN:178:ILE:HG23	2.45	0.51
3:Us:196:LEU:N	3:Us:214:HIS:O	2.42	0.51
3:Ut:165:LYS:NZ	3:Ut:185:GLU:OE1	2.43	0.51
3:Vp:39:THR:OG1	3:Vp:42:GLN:OE1	2.26	0.51
3:Vr:199:GLN:HG2	3:Vr:201:VAL:HG23	1.91	0.51
3:Vu:166:HIS:O	3:Vu:180:GLN:NE2	2.31	0.51
4:Wl:164:ARG:NH1	4:WK:191:ILE:O	2.44	0.51
4:WJ:102:TRP:CZ3	4:WJ:131:SER:HB2	2.44	0.51
4:WJ:206:PHE:HB3	4:WJ:223:VAL:HG13	1.92	0.51
4:WJ:326:MET:HG3	4:WJ:327:PRO:HD3	1.92	0.51
4:WJ:391:GLY:HA3	4:WK:390:LEU:HB2	1.92	0.51
4:WK:293:PHE:HB2	4:WK:296:PHE:CG	2.46	0.51
4:Wj:265:LEU:O	4:Wj:378:GLY:HA2	2.09	0.51
4:Wn:60:LEU:HD21	4:Wn:79:ILE:HG22	1.92	0.51
4:XJ:469:PRO:HA	4:XJ:472:TYR:CZ	2.45	0.51
4:XK:213:GLY:O	4:XK:214:SER:OG	2.27	0.51
4:Xj:49:TRP:CG	4:Xj:67:SER:HG	2.27	0.51
4:Xk:221:GLU:N	4:Xk:221:GLU:OE1	2.43	0.51
4:Xl:361:ASP:H	4:Xl:366:PRO:HA	1.76	0.51
4:Xm:323:THR:HG23	4:Xm:358:VAL:C	2.34	0.51
5:YC:408:HIS:CD2	5:YC:410:GLU:HB3	2.43	0.51
5:YY:42:LYS:HE2	5:YY:77:THR:HG21	1.91	0.51
5:YY:302:ALA:O	5:YY:303:ASN:ND2	2.43	0.51
5:YY:982:LEU:HB3	5:YY:983:PRO:HD3	1.93	0.51
5:YY:987:ARG:NE	5:YY:988:LYS:HG3	2.25	0.51
5:Yc:38:ILE:HD12	5:Yc:57:ILE:HB	1.92	0.51
5:Yc:300:LEU:HB2	5:Yc:350:PHE:CE1	2.46	0.51
5:Yc:758:ILE:HD11	5:Yc:864:MET:HE2	1.92	0.51
5:Yx:715:LEU:HD11	6:ab:54:VAL:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZD:43:ARG:H	6:ZD:74:HIS:HB3	1.76	0.51
6:aE:230:THR:HG23	6:aE:232:GLN:H	1.76	0.51
6:aa:132:ARG:NE	6:aa:189:GLU:OE2	2.37	0.51
6:ac:43:ARG:O	6:ac:270:ARG:HG2	2.09	0.51
7:b0:271:TYR:OH	7:b9:549:ASP:OD2	2.28	0.51
7:b5:406:LEU:HD13	7:b5:475:ALA:HB2	1.92	0.51
7:b6:386:ALA:O	7:b6:390:GLN:NE2	2.42	0.51
7:b9:11:LYS:HE3	7:b9:13:THR:HG21	1.92	0.51
7:bN:455:LYS:HD3	7:bN:502:VAL:HG22	1.92	0.51
7:bR:115:LYS:HA	7:bR:129:GLY:O	2.10	0.51
7:bR:560:LEU:HD21	7:bR:601:ILE:HD11	1.93	0.51
7:cA:256:PRO:HG2	7:cA:339:THR:H	1.76	0.51
7:cE:406:LEU:HD13	7:cE:475:ALA:HB2	1.90	0.51
7:cG:467:TRP:CZ3	7:cH:199:GLU:HB2	2.46	0.51
7:cG:470:LEU:HD23	7:cG:525:VAL:HG21	1.93	0.51
7:cH:383:LEU:HD22	7:cH:439:ASN:HB2	1.93	0.51
7:cI:40:GLN:H	7:cI:81:VAL:HG23	1.76	0.51
7:cJ:2:THR:OG1	7:cJ:3:LEU:N	2.41	0.51
7:cK:410:PRO:O	7:cK:413:THR:HG22	2.11	0.51
7:dS:394:VAL:HG11	7:dS:443:ILE:HD12	1.92	0.51
7:dU:175:SER:OG	7:dU:176:SER:N	2.43	0.51
8:fR:550:ILE:HG13	8:fR:596:ASN:HB3	1.93	0.51
11:hM:23:VAL:HG11	11:hM:39:THR:HG21	1.93	0.51
11:hf:140:LEU:HD13	11:hf:153:PHE:HB3	1.93	0.51
11:hk:83:GLN:HA	11:hk:86:VAL:HG22	1.92	0.51
11:hl:136:ASN:O	11:hl:136:ASN:ND2	2.43	0.51
11:hx:38:ALA:HB3	11:hx:72:THR:HG23	1.92	0.51
14:k7:7:ASP:OD1	14:k7:7:ASP:N	2.43	0.51
16:o0:231:TYR:CG	16:o0:250:LEU:HD21	2.45	0.51
17:q3:121:SER:OG	17:q3:122:GLY:N	2.44	0.51
17:q8:167:GLU:O	17:q8:169:CYS:N	2.41	0.51
1:S5:292:GLY:HA3	1:S7:298:GLY:HA3	1.92	0.51
1:SA:199:VAL:HA	1:Sy:212:PRO:HB3	1.93	0.51
1:SO:441:GLN:N	1:SQ:513:ARG:O	2.39	0.51
1:SP:520:ASN:OD1	1:SQ:403:SER:OG	2.22	0.51
1:Sv:100:TYR:CE2	1:Sx:113:GLU:HA	2.46	0.51
1:Sw:33:GLN:NE2	1:Sy:19:ASP:O	2.40	0.51
2:T3:50:VAL:HG12	2:T3:51:ALA:H	1.75	0.51
3:UM:72:THR:OG1	3:UM:214:HIS:ND1	2.43	0.51
3:UM:196:LEU:N	3:UM:214:HIS:O	2.43	0.51
3:Up:14:LEU:O	3:Up:16:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ur:88:TRP:O	3:Ur:155:LYS:HA	2.10	0.51
3:VL:13:ARG:HD2	3:VN:9:GLY:C	2.36	0.51
3:Vp:74:LYS:HG3	3:Vt:70:ILE:HD11	1.93	0.51
3:Vq:16:ASP:HB3	3:Vq:42:GLN:HG3	1.93	0.51
3:Vq:17:PHE:CE1	3:Vq:45:LYS:HB3	2.46	0.51
4:WI:34:TYR:OH	4:WI:41:ASP:O	2.28	0.51
4:WJ:190:ASN:HB2	4:WJ:247:PHE:HB3	1.92	0.51
4:WK:408:VAL:HG12	4:WK:409:SER:H	1.76	0.51
4:Wj:556:GLN:HG2	5:YX:185:LYS:HD3	1.93	0.51
4:Wk:464:VAL:HG12	4:Wm:429:GLY:HA2	1.92	0.51
4:Wm:361:ASP:H	4:Wm:366:PRO:HA	1.76	0.51
4:Wn:266:LEU:HA	4:Wn:377:HIS:O	2.11	0.51
4:Wo:259:THR:OG1	4:Wo:385:TRP:HB2	2.10	0.51
4:XJ:18:TYR:HB3	4:XJ:21:LYS:H	1.75	0.51
4:XJ:453:ILE:HG21	4:XK:453:ILE:HD12	1.92	0.51
4:Xj:104:VAL:HG13	4:Xj:105:ASN:H	1.74	0.51
4:Xj:517:GLY:N	4:Xn:594:THR:OG1	2.42	0.51
4:Xl:49:TRP:HZ3	4:Xl:96:ARG:HD2	1.75	0.51
4:Xl:150:GLN:NE2	4:Xl:154:ILE:O	2.34	0.51
5:Yx:46:GLY:HA3	5:Yx:49:LEU:HB2	1.92	0.51
5:Yx:777:LEU:HD21	5:Yx:798:ILE:HD13	1.92	0.51
5:Yx:855:ILE:HG13	5:Yx:856:ASN:H	1.75	0.51
6:aD:279:LEU:HD13	6:aD:289:ASN:HB3	1.92	0.51
7:b0:256:PRO:HG2	7:b0:339:THR:H	1.75	0.51
7:b6:107:GLY:HA3	7:b6:110:TYR:HE2	1.75	0.51
7:b9:28:ALA:HB2	7:b9:370:VAL:HG21	1.93	0.51
7:cC:209:ASP:N	7:cC:209:ASP:OD1	2.36	0.51
7:cC:240:SER:OG	7:cC:335:SER:OG	2.20	0.51
7:cC:423:VAL:HG21	7:cC:513:GLN:HB3	1.93	0.51
7:cJ:28:ALA:HB2	7:cJ:370:VAL:HG21	1.92	0.51
7:cM:454:TYR:HB3	7:cM:467:TRP:CD1	2.45	0.51
7:cN:400:ARG:HD3	7:cN:403:CYS:SG	2.51	0.51
7:cP:406:LEU:HD13	7:cP:475:ALA:HB2	1.91	0.51
7:dT:140:ILE:O	7:dT:141:LYS:NZ	2.44	0.51
8:eB:157:LYS:H	8:eB:157:LYS:NZ	2.07	0.51
8:eW:433:GLU:HG2	8:eW:655:LEU:HD22	1.92	0.51
8:f9:220:THR:HG22	8:f9:222:THR:H	1.76	0.51
8:fB:135:ALA:C	8:fB:137:ASP:H	2.18	0.51
8:fU:545:ARG:HG3	8:fU:549:GLY:HA2	1.92	0.51
8:fW:157:LYS:NZ	8:fW:157:LYS:H	2.09	0.51
8:fW:543:THR:O	8:fW:597:TYR:OH	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gE:525:ASN:N	9:gE:525:ASN:OD1	2.44	0.51
11:h2:131:GLY:O	11:h2:159:LEU:HA	2.10	0.51
11:hM:140:LEU:HD13	11:hM:153:PHE:HB3	1.92	0.51
15:m6:47:ARG:HG3	15:m6:53:PHE:HB3	1.91	0.51
15:m6:89:ASP:CG	16:pB:264:PRO:HG3	2.36	0.51
16:pA:174:LEU:HD22	16:pA:174:LEU:H	1.74	0.51
16:pB:270:ASN:HB3	16:pB:273:LEU:HD13	1.92	0.51
17:q4:200:GLN:OE1	17:q4:202:ASN:ND2	2.31	0.51
1:S1:57:ILE:HG22	1:S2:55:LYS:HB3	1.91	0.51
1:S5:193:LEU:HD11	1:S7:207:GLY:HA2	1.93	0.51
1:S7:263:VAL:HG12	1:S7:278:SER:HB3	1.91	0.51
1:SP:71:ASN:HB2	1:Sz:365:GLY:HA2	1.91	0.51
1:SP:99:ARG:HG2	1:SP:100:TYR:H	1.75	0.51
1:Sv:7:GLN:HB2	1:Sv:15:TYR:CZ	2.45	0.51
1:Sv:233:GLN:HA	1:Sv:236:VAL:HG22	1.91	0.51
2:T1:63:ALA:O	2:T2:84:ARG:NE	2.43	0.51
2:T5:47:LYS:HD2	2:T5:59:GLN:HG2	1.91	0.51
3:Vp:127:ALA:HA	3:Vp:130:ARG:HH11	1.75	0.51
4:WJ:361:ASP:H	4:WJ:366:PRO:HA	1.75	0.51
4:Wl:12:ASP:HB3	5:YX:977:ILE:HD13	1.93	0.51
4:Wl:323:THR:HB	4:Wl:355:ASP:HB3	1.93	0.51
4:Wl:329:PHE:HB3	4:Wl:332:VAL:HB	1.92	0.51
4:Wm:592:TYR:HA	4:Wo:486:VAL:H	1.74	0.51
4:XJ:215:PRO:HB3	4:XJ:229:ASN:HB3	1.91	0.51
4:XJ:507:ASP:OD1	4:XJ:511:ASN:N	2.42	0.51
4:XK:259:THR:OG1	4:XK:385:TRP:HB2	2.10	0.51
4:XK:352:SER:O	4:XK:352:SER:OG	2.24	0.51
4:Xj:460:TYR:OH	4:Xj:462:ASN:ND2	2.41	0.51
4:Xn:338:ASP:HB3	4:Xn:349:TRP:CD1	2.45	0.51
5:YC:256:GLY:HA2	5:YC:294:PHE:CD1	2.46	0.51
5:YC:437:ASP:OD1	5:YC:437:ASP:N	2.44	0.51
5:YX:46:GLY:HA3	5:YX:49:LEU:HB2	1.92	0.51
5:YX:300:LEU:HB2	5:YX:350:PHE:CE1	2.46	0.51
5:Yx:176:ILE:H	5:Yx:176:ILE:HD13	1.75	0.51
5:Yx:470:ALA:HA	6:aa:57:ALA:H	1.76	0.51
5:Yy:160:VAL:O	5:Yy:164:SER:OG	2.28	0.51
5:Yy:360:ASN:HB3	5:Yy:361:PRO:CD	2.40	0.51
5:Yy:929:TYR:HD2	5:Yy:961:VAL:HB	1.75	0.51
6:ZD:21:MET:HB2	6:ZD:334:PHE:HD2	1.74	0.51
6:ZZ:202:ARG:O	6:ZZ:248:ARG:NH1	2.38	0.51
6:Zb:277:ASN:HB3	6:Zb:291:LYS:HE2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b4:400:ARG:HD3	7:b4:403:CYS:SG	2.51	0.51
7:b4:403:CYS:O	7:b4:558:ASN:ND2	2.35	0.51
7:b5:134:VAL:HG12	7:b5:140:ILE:HG22	1.92	0.51
7:b5:256:PRO:HG2	7:b5:339:THR:H	1.74	0.51
7:b9:104:SER:OG	7:b9:183:THR:OG1	2.28	0.51
7:b9:166:ASN:OD1	7:b9:166:ASN:N	2.40	0.51
7:bP:94:PRO:HD3	7:bP:222:VAL:O	2.10	0.51
7:bQ:90:LYS:NZ	7:bQ:190:ASP:OD1	2.43	0.51
7:bY:22:ASN:HD21	17:q7:254:ASP:HA	1.75	0.51
7:cC:410:PRO:O	7:cC:413:THR:HG22	2.10	0.51
7:cC:451:ASP:OD2	7:cC:470:LEU:HB3	2.10	0.51
7:cD:642:PHE:CZ	7:cM:564:ILE:HD11	2.45	0.51
7:cG:110:TYR:CE1	7:cG:171:ILE:HD12	2.46	0.51
7:cH:44:VAL:HG11	7:cH:50:LEU:HB2	1.91	0.51
7:dU:256:PRO:HG2	7:dU:339:THR:H	1.74	0.51
7:dU:456:TYR:HB2	7:dU:504:LYS:HG2	1.92	0.51
8:eB:462:SER:O	8:eB:466:THR:HG23	2.10	0.51
8:eU:642:PHE:HE1	8:eU:651:LEU:HD13	1.75	0.51
8:fA:150:ASP:HB2	8:fS:431:GLU:HG3	1.92	0.51
8:fB:346:ASP:OD1	8:fB:346:ASP:N	2.43	0.51
8:fs:429:LEU:HD13	8:fs:436:LEU:HD12	1.92	0.51
9:gG:69:ILE:HD11	9:gH:123:ARG:HH21	1.76	0.51
11:h1:82:ARG:HH12	11:h1:138:GLY:HA2	1.76	0.51
11:hI:136:ASN:O	11:hI:136:ASN:ND2	2.44	0.51
11:hJ:58:ILE:HD11	17:q8:7:PHE:CE2	2.46	0.51
11:hF:62:GLY:O	11:hK:118:ARG:NH2	2.44	0.51
11:hj:19:ASN:OD1	11:hj:19:ASN:N	2.43	0.51
11:hs:46:VAL:HG22	11:hs:64:ARG:HB2	1.92	0.51
14:k7:94:TYR:CE1	14:k7:156:TYR:HB3	2.46	0.51
15:m2:101:ASP:O	15:m2:103:THR:OG1	2.27	0.51
17:q5:102:GLY:HA3	17:q8:257:ARG:HD3	1.92	0.51
17:q8:99:SER:OG	17:q8:100:LEU:N	2.43	0.51
1:S0:394:ASP:OD2	1:S5:407:SER:N	2.42	0.51
1:S0:478:ASP:HB3	4:W0:353:HIS:HB2	1.93	0.51
1:S5:100:TYR:OH	1:S7:113:GLU:O	2.16	0.51
1:S6:262:VAL:HG23	1:S8:260:ARG:HD3	1.93	0.51
1:S6:357:ASP:OD1	1:S8:339:ARG:NH2	2.44	0.51
1:S7:47:VAL:H	1:S7:48:PRO:CD	2.23	0.51
1:S7:340:THR:HG22	1:S7:341:ILE:HG12	1.93	0.51
1:SA:401:ARG:HB3	1:Sy:399:PHE:CE1	2.46	0.51
1:SO:405:ARG:NH2	1:SO:409:LEU:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sv:230:LEU:HG	1:Sv:246:THR:HG22	1.92	0.51
1:Sv:463:THR:HG23	1:Sz:483:PHE:HE1	1.76	0.51
1:Sx:354:LEU:HD21	1:Sx:522:ILE:HG21	1.93	0.51
1:Sy:503:ASN:HB3	1:Sy:507:LEU:HD23	1.92	0.51
2:T4:215:LYS:HG3	2:T4:239:ARG:HG2	1.92	0.51
2:T5:50:VAL:C	2:T5:52:ASN:H	2.18	0.51
2:Th:100:ARG:HG3	2:Th:158:SER:HB2	1.92	0.51
3:UN:29:VAL:HG22	3:UN:62:PHE:HZ	1.75	0.51
3:Uq:42:GLN:HE21	3:Uq:53:GLU:HB3	1.76	0.51
3:Uu:127:ALA:HA	3:Uu:130:ARG:HH11	1.76	0.51
3:Vq:144:ASN:HB2	3:Vq:161:LEU:HA	1.93	0.51
4:Wl:191:ILE:O	4:Wl:192:ARG:NH1	2.34	0.51
4:WJ:12:ASP:OD2	5:YC:984:SER:OG	2.17	0.51
4:Wj:451:ASP:HA	4:Wj:600:ARG:HH12	1.76	0.51
4:Wn:4:ASN:OD1	4:Wn:5:ILE:N	2.44	0.51
4:Xj:390:LEU:HD23	4:Xj:393:LEU:HB2	1.91	0.51
4:Xl:2:LYS:H	4:Xn:41:ASP:HB3	1.75	0.51
4:Xl:453:ILE:HG21	4:Xn:453:ILE:HD12	1.92	0.51
4:Xm:501:LEU:HD13	4:Xm:512:PRO:HG2	1.91	0.51
4:Xo:104:VAL:HG13	4:Xo:105:ASN:H	1.73	0.51
5:YC:398:SER:OG	5:YC:399:ALA:N	2.38	0.51
5:YY:398:SER:OG	5:YY:399:ALA:N	2.43	0.51
5:YY:678:GLY:O	5:YY:684:ASN:ND2	2.43	0.51
5:Yx:285:LEU:HD23	5:Yx:287:LEU:HD23	1.93	0.51
6:Zb:113:VAL:HG22	6:Zb:130:VAL:HG22	1.92	0.51
6:Zb:179:THR:OG1	6:Zb:186:TYR:O	2.28	0.51
6:aa:49:SER:OG	6:aa:50:ASN:OD1	2.29	0.51
7:b5:23:SER:O	7:b5:76:ASN:HB2	2.10	0.51
7:b8:97:GLY:O	7:b8:147:THR:OG1	2.23	0.51
7:b8:159:GLU:HB3	7:b8:163:LEU:HA	1.92	0.51
7:bO:247:GLY:HA2	7:bO:266:LYS:HG3	1.91	0.51
7:bR:199:GLU:HB2	7:cP:467:TRP:HZ3	1.75	0.51
7:cD:12:GLU:HG3	7:cL:548:PHE:HE2	1.75	0.51
7:cE:230:LEU:HD21	7:cE:285:ARG:HD2	1.91	0.51
7:cM:151:ILE:O	7:cM:155:LYS:HG2	2.11	0.51
7:cO:612:ASN:HB3	7:cO:624:VAL:HG23	1.93	0.51
7:dS:538:ASP:OD1	7:dS:538:ASP:N	2.43	0.51
7:dT:456:TYR:CD2	7:dT:504:LYS:HD2	2.46	0.51
7:dW:241:LYS:NZ	7:dW:274:GLN:O	2.37	0.51
7:dZ:455:LYS:HB2	7:dZ:470:LEU:HD13	1.91	0.51
8:eW:426:LEU:HD13	8:eW:657:PRO:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fB:231:ASP:OD1	8:fB:231:ASP:N	2.33	0.51
8:fS:566:ASN:OD1	8:fS:567:GLU:N	2.42	0.51
8:fW:340:VAL:O	8:fW:341:THR:OG1	2.22	0.51
8:fs:419:ASN:HB2	8:fs:481:THR:HG23	1.93	0.51
11:h1:48:LYS:NZ	11:h2:68:ASP:OD1	2.36	0.51
11:hh:136:ASN:O	11:hh:136:ASN:ND2	2.43	0.51
11:hi:39:THR:HG22	11:hi:71:VAL:HG22	1.91	0.51
11:hs:136:ASN:ND2	11:hs:136:ASN:O	2.43	0.51
11:hz:38:ALA:HB3	11:hz:72:THR:HG23	1.91	0.51
12:iC:215:GLU:OE1	16:o1:194:ARG:NH1	2.43	0.51
14:k3:2:LEU:HD11	14:k3:188:MET:HE1	1.91	0.51
14:k3:94:TYR:CE1	14:k3:156:TYR:HB3	2.46	0.51
16:pA:212:THR:HG21	17:q4:149:ARG:HB3	1.91	0.51
16:pA:346:ILE:HD12	16:pA:348:MET:HE2	1.91	0.51
17:q3:17:GLN:HG2	17:q7:164:MET:HE3	1.93	0.51
1:S0:47:VAL:HG23	1:S0:48:PRO:HD3	1.92	0.51
1:S0:490:ILE:HD12	1:S7:463:THR:HG21	1.93	0.51
1:S1:12:GLU:HG3	1:S1:14:ARG:H	1.75	0.51
1:SA:476:ASP:OD1	1:SA:479:ASN:ND2	2.25	0.51
1:Sw:158:THR:OG1	1:Sw:159:ALA:N	2.42	0.51
1:Sx:7:GLN:HB2	1:Sx:15:TYR:CZ	2.46	0.51
2:T7:87:ILE:O	2:T7:111:ASN:ND2	2.44	0.51
2:TF:213:LYS:NZ	2:TF:241:GLY:O	2.43	0.51
2:TH:87:ILE:HG13	2:TH:122:LEU:HD11	1.92	0.51
2:Tf:8:LYS:HD3	2:Tf:30:LYS:HG2	1.93	0.51
3:Up:10:VAL:HG11	3:Ur:10:VAL:HG11	1.93	0.51
3:Ut:120:MET:HB3	3:Ut:124:GLU:HB2	1.92	0.51
3:VL:125:PHE:O	3:VL:129:VAL:HG23	2.11	0.51
3:VM:14:LEU:O	3:VM:16:ASP:N	2.44	0.51
3:Vq:113:PRO:HB2	4:Xk:269:LYS:HD2	1.92	0.51
3:Vq:120:MET:HE1	3:Vq:128:LYS:HE3	1.93	0.51
4:Wj:23:GLY:C	4:Wj:25:LYS:H	2.18	0.51
4:Wj:388:ASN:O	4:Wj:388:ASN:ND2	2.43	0.51
4:Wj:594:THR:OG1	4:Wl:518:GLY:N	2.44	0.51
4:Wl:102:TRP:CZ3	4:Wl:131:SER:HB2	2.45	0.51
4:Wo:9:ASN:OD1	4:Wo:10:VAL:N	2.44	0.51
4:XJ:102:TRP:CZ3	4:XJ:131:SER:HB2	2.46	0.51
4:XK:194:LYS:HD2	4:XK:243:GLN:HE21	1.75	0.51
4:Xj:102:TRP:CZ3	4:Xj:131:SER:HB2	2.46	0.51
4:Xj:109:LEU:HB3	4:Xj:124:VAL:HG23	1.92	0.51
4:Xj:348:THR:OG1	4:Xj:350:GLU:OE2	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xk:192:ARG:NH2	4:Xm:245:GLU:OE1	2.44	0.51
4:Xk:213:GLY:O	4:Xk:214:SER:OG	2.24	0.51
4:Xm:268:SER:OG	4:Xm:269:LYS:N	2.44	0.51
4:Xo:194:LYS:O	4:Xo:242:VAL:HA	2.11	0.51
4:Xo:507:ASP:OD1	4:Xo:511:ASN:N	2.41	0.51
5:YX:574:LYS:HG3	5:YX:609:GLU:HG2	1.93	0.51
5:YY:415:ARG:HH12	5:YY:424:ARG:HH12	1.58	0.51
5:Yc:146:LEU:HD13	5:Yc:578:PHE:CE1	2.46	0.51
6:ZZ:46:PRO:HG3	6:ZZ:267:LYS:HD2	1.92	0.51
6:ZZ:89:VAL:HG11	6:ZZ:248:ARG:HD2	1.93	0.51
6:aa:270:ARG:CZ	6:aa:317:PRO:HB3	2.41	0.51
7:b5:549:ASP:OD2	7:b6:271:TYR:OH	2.14	0.51
7:b9:33:PHE:HA	7:b9:61:THR:HG23	1.93	0.51
7:bO:601:ILE:HD13	7:bO:629:ILE:HB	1.92	0.51
7:bP:29:LEU:O	7:bP:80:VAL:HA	2.10	0.51
7:bQ:18:THR:HG21	7:dU:611:THR:HB	1.93	0.51
7:bQ:311:ILE:HB	7:bQ:327:ALA:HB2	1.93	0.51
7:bQ:400:ARG:HD3	7:bQ:403:CYS:SG	2.50	0.51
7:cC:107:GLY:HA3	7:cC:110:TYR:HE2	1.76	0.51
7:cE:118:VAL:HB	7:cE:126:GLU:HB3	1.93	0.51
7:cK:601:ILE:HG22	7:cK:630:GLN:H	1.74	0.51
7:cL:151:ILE:O	7:cL:155:LYS:HG2	2.11	0.51
7:cO:549:ASP:O	7:cO:550:ARG:NE	2.44	0.51
7:dT:101:TYR:OH	7:dT:216:LYS:O	2.28	0.51
7:dU:383:LEU:HD22	7:dU:439:ASN:HB3	1.92	0.51
7:dV:148:ALA:O	7:dV:151:ILE:HG13	2.11	0.51
7:dV:391:LYS:NZ	7:dV:440:ASN:O	2.43	0.51
7:dW:511:GLN:NE2	7:dW:515:ASP:OD1	2.40	0.51
8:eB:521:ARG:O	8:eB:533:ASP:HB2	2.11	0.51
8:fU:472:ASP:OD1	8:fU:473:HIS:N	2.42	0.51
8:fr:68:GLN:O	8:fr:72:ASN:HB3	2.11	0.51
8:fr:214:MET:HE1	8:fr:257:ILE:HG23	1.92	0.51
8:fr:536:TYR:OH	8:fr:562:ASP:OD2	2.19	0.51
11:h1:54:MET:HE2	11:hL:1:MET:HE1	1.92	0.51
11:hL:143:ASP:OD1	11:hL:144:TRP:N	2.44	0.51
11:hg:25:ILE:HG23	11:hg:111:ALA:HB2	1.93	0.51
12:iC:41:ARG:NH2	12:iC:47:ARG:HD2	2.26	0.51
16:o2:236:GLU:O	16:o2:288:SER:OG	2.26	0.51
17:q9:194:ASP:OD1	17:q9:194:ASP:N	2.43	0.51
1:S0:371:ASP:OD1	1:S0:526:LYS:NZ	2.44	0.51
1:S1:161:THR:H	1:S1:164:LYS:HE3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:301:ARG:HB3	1:Sy:295:ILE:HG13	1.93	0.51
1:Sv:41:PRO:O	1:Sv:45:ASN:ND2	2.44	0.51
1:Sz:47:VAL:HB	1:Sz:48:PRO:HD3	1.93	0.51
2:T1:50:VAL:C	2:T1:52:ASN:H	2.19	0.51
2:T1:281:THR:O	2:T3:277:LYS:NZ	2.32	0.51
2:T3:10:ILE:HD11	2:T3:31:ILE:HD11	1.92	0.51
2:TH:212:ARG:HG3	2:TH:213:LYS:HG3	1.93	0.51
3:UM:62:PHE:CD1	3:UN:190:TYR:HB3	2.46	0.51
3:Up:114:VAL:HG21	3:Up:129:VAL:HG22	1.93	0.51
3:Uq:126:VAL:HG13	3:Uq:156:LEU:HD11	1.93	0.51
3:VL:14:LEU:O	3:VL:16:ASP:N	2.44	0.51
3:VN:100:PRO:O	3:VN:103:SER:OG	2.20	0.51
3:Vp:126:VAL:HG13	3:Vp:156:LEU:HD11	1.93	0.51
3:Vq:56:ILE:HD11	3:Vu:52:ILE:HG23	1.91	0.51
3:Vq:90:PHE:CE1	3:Vq:178:ILE:HG23	2.46	0.51
3:Vu:65:LYS:O	3:Vu:217:ARG:NH1	2.44	0.51
4:WI:163:ALA:H	4:WI:246:THR:HG22	1.75	0.51
4:WI:569:TYR:OH	4:WJ:571:GLU:OE2	2.25	0.51
4:WJ:360:THR:HG22	4:WJ:366:PRO:HG3	1.92	0.51
4:WK:215:PRO:HB3	4:WK:229:ASN:C	2.35	0.51
4:Wl:131:SER:HA	4:Wl:150:GLN:HA	1.93	0.51
4:Wm:316:ILE:HG23	4:Wo:315:GLY:HA3	1.93	0.51
4:XI:322:GLY:HA2	4:XI:360:THR:H	1.76	0.51
4:Xk:222:LEU:HG	4:Xk:224:PRO:HD2	1.93	0.51
4:Xk:309:LEU:HD22	4:Xk:321:ALA:HB2	1.93	0.51
4:XI:213:GLY:O	4:XI:214:SER:OG	2.26	0.51
5:YC:83:ALA:HB1	5:YC:92:SER:HB3	1.92	0.51
5:YX:788:THR:HG23	5:YX:790:THR:H	1.76	0.51
5:YY:853:ASP:C	5:YY:855:ILE:H	2.18	0.51
5:Yc:486:HIS:HB2	6:ZD:305:HIS:CE1	2.46	0.51
5:Yy:974:ASN:OD1	5:Yy:976:SER:OG	2.17	0.51
6:Za:273:SER:HA	6:Za:311:TYR:O	2.11	0.51
6:aE:88:ALA:HA	6:aE:246:THR:O	2.11	0.51
7:b0:110:TYR:CE1	7:b0:177:GLY:HA3	2.46	0.51
7:b4:264:THR:O	7:b4:266:LYS:N	2.44	0.51
7:b5:57:PRO:HG3	7:b5:65:PHE:CD1	2.46	0.51
7:b6:121:VAL:HG22	7:b6:166:ASN:HB3	1.93	0.51
7:b7:152:ALA:O	7:b7:156:GLU:HG2	2.11	0.51
7:b9:264:THR:O	7:b9:266:LYS:N	2.44	0.51
7:bO:240:SER:OG	7:bO:241:LYS:N	2.43	0.51
7:cA:102:THR:HB	7:cA:183:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cC:411:ARG:HG3	7:cC:415:VAL:HG21	1.91	0.51
7:cD:490:SER:O	7:cD:496:ARG:NH1	2.44	0.51
7:cE:121:VAL:HG22	7:cE:166:ASN:HB3	1.92	0.51
7:cG:8:ILE:HD11	7:cP:569:LYS:HB3	1.92	0.51
7:cJ:209:ASP:OD1	7:cJ:209:ASP:N	2.42	0.51
7:cK:23:SER:O	7:cK:76:ASN:HB2	2.11	0.51
7:cK:454:TYR:HB3	7:cK:467:TRP:CD1	2.45	0.51
7:cP:368:VAL:HG12	7:cP:370:VAL:HG22	1.90	0.51
7:dS:29:LEU:O	7:dS:80:VAL:HA	2.11	0.51
7:dV:515:ASP:OD1	7:dW:7:GLY:HA3	2.11	0.51
8:fS:293:THR:OG1	8:fS:294:ASN:OD1	2.29	0.51
8:fS:339:CYS:HB3	8:fS:348:PHE:CD2	2.45	0.51
8:fU:134:TYR:CE2	8:fU:142:PRO:HG3	2.46	0.51
8:fr:104:SER:O	8:fr:316:GLY:HA2	2.10	0.51
8:fr:127:ARG:NH1	8:fr:271:GLU:OE1	2.42	0.51
9:gE:200:ILE:HD13	9:gE:236:ILE:HD12	1.92	0.51
9:gH:543:ASP:OD1	9:gH:544:TRP:N	2.43	0.51
11:h2:54:MET:O	11:h2:56:ARG:N	2.44	0.51
11:hm:100:THR:OG1	11:hm:101:GLY:N	2.43	0.51
15:m1:116:PRO:HG2	16:pB:110:LEU:HD13	1.92	0.51
16:o0:69:MET:HG2	16:o0:121:LYS:HB3	1.93	0.51
16:pB:329:PHE:CE2	16:pB:339:PRO:HG3	2.45	0.51
17:q5:194:ASP:OD1	17:q5:194:ASP:N	2.42	0.51
1:S2:89:ASN:HD21	1:S2:113:GLU:HB2	1.75	0.51
1:S2:333:THR:OG1	1:S2:335:ASN:OD1	2.19	0.51
1:S3:365:GLY:HA2	1:S7:71:ASN:HB2	1.93	0.51
1:S4:57:ILE:HG12	1:S8:57:ILE:HG12	1.93	0.51
1:S4:89:ASN:C	1:S4:96:GLY:HA3	2.35	0.51
1:S5:23:THR:OG1	1:S5:24:ASN:N	2.44	0.51
1:S6:61:PRO:HD3	1:S6:74:LYS:HB3	1.93	0.51
1:SA:97:LEU:HD13	1:Sw:96:GLY:HA2	1.93	0.51
1:SP:20:PRO:HG3	1:SP:29:ILE:HG13	1.93	0.51
1:SQ:472:ARG:NH2	4:Xm:404:ASP:OD2	2.31	0.51
1:Sw:98:THR:HG23	1:Sw:114:SER:HA	1.93	0.51
1:Sx:172:LEU:O	1:Sx:175:GLN:NE2	2.44	0.51
1:Sy:160:MET:HG3	1:Sy:165:THR:HG21	1.92	0.51
2:T1:214:ILE:HG22	2:T1:240:VAL:HB	1.93	0.51
2:T3:85:HIS:HB2	2:T3:109:PHE:CD1	2.46	0.51
2:Td:67:TYR:CD2	2:Td:84:ARG:HB3	2.46	0.51
2:Th:17:ASN:OD1	2:Th:18:ALA:N	2.44	0.51
2:Th:50:VAL:C	2:Th:52:ASN:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ti:102:GLU:N	2:Ti:105:ASP:OD2	2.37	0.51
3:UM:17:PHE:HD1	3:UM:47:PHE:HB2	1.76	0.51
3:UM:55:ALA:HB1	3:UN:56:ILE:HG21	1.92	0.51
3:VN:4:LEU:O	4:XI:318:GLN:NE2	2.44	0.51
3:Vq:96:ASP:OD1	3:Vq:98:SER:OG	2.28	0.51
3:Vr:107:VAL:HG22	3:Vr:174:TYR:HD2	1.76	0.51
4:WI:194:LYS:HG2	4:WI:198:ASN:HA	1.92	0.51
4:WK:18:TYR:HB2	4:WK:21:LYS:HB2	1.93	0.51
4:Wm:532:LEU:HD11	4:Wo:533:PRO:HD2	1.92	0.51
4:Wo:71:ASN:OD1	4:Wo:72:THR:N	2.44	0.51
4:XI:362:GLU:HG3	4:XI:363:ASN:H	1.76	0.51
4:XJ:131:SER:HA	4:XJ:150:GLN:HA	1.93	0.51
4:Xj:102:TRP:CE3	4:Xj:131:SER:HB2	2.46	0.51
4:Xl:215:PRO:HB3	4:Xl:229:ASN:HB3	1.92	0.51
4:Xm:180:VAL:HG13	4:Xm:181:PHE:N	2.26	0.51
5:YC:506:MET:HG3	5:YC:507:LYS:H	1.76	0.51
5:YC:657:TYR:OH	8:eB:50:GLY:HA2	2.11	0.51
5:YC:981:GLN:OE1	5:YC:981:GLN:N	2.29	0.51
5:YX:433:ASN:OD1	5:YX:434:MET:N	2.44	0.51
5:YY:329:ILE:HD11	5:YY:350:PHE:HE1	1.76	0.51
5:YY:974:ASN:OD1	5:YY:976:SER:OG	2.26	0.51
5:Yx:685:ASN:HD21	8:fr:21:PHE:HD1	1.59	0.51
5:Yy:42:LYS:HG2	5:Yy:48:ASN:H	1.76	0.51
6:aZ:40:THR:OG1	6:aZ:273:SER:OG	2.29	0.51
6:ab:132:ARG:HG2	6:ab:189:GLU:HB3	1.92	0.51
7:b4:470:LEU:HD23	7:b4:525:VAL:HG21	1.93	0.51
7:b8:34:GLN:OE1	7:b8:58:THR:OG1	2.29	0.51
7:b8:40:GLN:H	7:b8:81:VAL:HG23	1.74	0.51
7:b8:134:VAL:HG12	7:b8:140:ILE:HA	1.93	0.51
7:cB:103:ILE:HD12	7:cB:140:ILE:HD12	1.93	0.51
7:cD:571:ARG:NH2	7:cD:587:GLU:OE1	2.42	0.51
7:cN:392:HIS:O	7:cN:395:SER:OG	2.24	0.51
7:dT:91:ASN:HB2	7:dT:193:ILE:HG23	1.92	0.51
7:dV:73:GLN:O	16:o1:255:ARG:NE	2.43	0.51
7:dW:209:ASP:OD1	7:dW:209:ASP:N	2.37	0.51
8:eU:418:THR:HB	8:eU:482:ILE:HG22	1.93	0.51
8:fB:382:LEU:O	8:fB:413:TYR:OH	2.22	0.51
8:fr:557:PRO:HG3	8:fr:580:LEU:HD11	1.93	0.51
8:fU:414:LEU:HD23	8:fU:486:ARG:NH2	2.26	0.51
8:fs:414:LEU:HG	8:fs:486:ARG:HH21	1.76	0.51
8:fs:484:MET:HG3	8:fs:625:SER:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gE:321:LYS:NZ	9:gH:445:ASP:OD1	2.30	0.51
9:gE:336:LEU:HB3	9:gE:341:VAL:HG23	1.93	0.51
11:h1:43:ALA:O	11:h1:162:TRP:NE1	2.41	0.51
11:hK:97:ASN:O	17:q9:4:LEU:HB3	2.10	0.51
11:hX:32:PHE:HZ	11:hX:71:VAL:HG11	1.76	0.51
11:hX:72:THR:HG22	11:hX:154:GLU:HG3	1.93	0.51
11:hf:43:ALA:O	11:hf:162:TRP:NE1	2.42	0.51
12:iC:93:PHE:HB3	12:iC:107:ILE:HB	1.93	0.51
15:mT:126:LEU:HG	15:mT:127:ALA:H	1.76	0.51
16:o2:142:ARG:HH11	16:o2:201:GLU:HG2	1.75	0.51
16:o2:261:PRO:HB3	16:o2:267:ALA:HB2	1.93	0.51
16:o2:352:ILE:HG21	16:o2:359:LEU:HD12	1.93	0.51
16:pB:174:LEU:HD22	16:pB:174:LEU:H	1.75	0.51
17:q3:18:ARG:HB2	17:q3:21:MET:HG2	1.92	0.51
17:q8:181:VAL:HG23	17:q8:195:VAL:HG21	1.93	0.51
1:S0:57:ILE:HG12	1:S5:57:ILE:HG12	1.93	0.50
1:S0:486:ASP:N	1:S0:486:ASP:OD1	2.42	0.50
1:SA:156:ASP:HB3	1:Sy:144:ILE:HG21	1.91	0.50
1:SA:296:ILE:HG22	1:SA:298:GLY:H	1.75	0.50
1:SP:411:ASN:O	1:SP:415:ASN:ND2	2.41	0.50
1:SQ:372:CYS:HB3	1:SQ:375:TYR:HB3	1.92	0.50
1:Sv:335:ASN:H	1:Sx:329:ASN:HD21	1.59	0.50
1:Sw:23:THR:OG1	1:Sw:24:ASN:N	2.43	0.50
1:Sx:340:THR:HG22	1:Sx:341:ILE:HG12	1.93	0.50
2:T2:40:ASN:OD1	2:T2:59:GLN:NE2	2.35	0.50
2:T3:40:ASN:HB3	2:T3:45:GLN:HG2	1.93	0.50
2:T4:172:GLU:N	2:T4:172:GLU:OE1	2.43	0.50
2:T4:205:THR:OG1	2:T6:199:MET:SD	2.69	0.50
2:TH:161:ASN:OD1	2:TH:162:TYR:N	2.44	0.50
2:Ti:14:GLU:O	2:Ti:16:GLY:N	2.45	0.50
2:Ti:102:GLU:HA	2:Ti:153:SER:HB3	1.93	0.50
3:Us:14:LEU:O	3:Us:16:ASP:N	2.44	0.50
3:Ut:126:VAL:HG13	3:Ut:156:LEU:HD11	1.92	0.50
4:WJ:70:ILE:HG22	4:WJ:102:TRP:HE1	1.76	0.50
4:WJ:255:ARG:HH21	4:WK:249:ASP:HB2	1.76	0.50
4:WJ:542:LEU:HD11	4:WK:569:TYR:HE2	1.76	0.50
4:Wj:180:VAL:HG21	4:Wj:186:TYR:HB2	1.93	0.50
4:Wj:460:TYR:OH	4:Wj:462:ASN:ND2	2.44	0.50
4:Wl:451:ASP:HA	4:Wl:600:ARG:HH12	1.76	0.50
4:Wl:569:TYR:HE1	4:Wn:544:VAL:HG22	1.76	0.50
4:Wo:20:ARG:HB2	5:YY:923:SER:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wo:289:LYS:HE2	4:Wo:370:HIS:HE1	1.76	0.50
4:XI:160:SER:OG	4:XI:248:MET:O	2.17	0.50
4:XJ:36:GLU:HG3	4:XK:43:PRO:HG2	1.93	0.50
4:Xn:215:PRO:HG3	4:Xn:226:ASP:H	1.76	0.50
4:Xo:422:LEU:HD23	4:Xo:433:VAL:HG22	1.94	0.50
5:YC:438:GLY:O	5:YC:439:LYS:HG2	2.11	0.50
5:YC:586:LEU:HD11	5:YC:594:ILE:HD13	1.92	0.50
5:Yc:72:ALA:HB1	5:Yc:102:THR:HG21	1.91	0.50
5:Yy:437:ASP:OD1	5:Yy:437:ASP:N	2.42	0.50
5:Yy:657:TYR:CD2	8:fW:52:ARG:HD3	2.44	0.50
5:Yy:917:LYS:O	5:Yy:1005:ARG:N	2.39	0.50
5:Yy:1000:THR:HG22	5:Yy:1001:PHE:H	1.76	0.50
6:Zb:128:TRP:O	6:Zb:193:GLU:HA	2.12	0.50
6:aZ:136:VAL:O	6:aZ:150:LYS:NZ	2.30	0.50
6:ab:135:ASP:OD1	6:ab:136:VAL:N	2.44	0.50
7:b4:246:LYS:HB2	7:b4:250:ALA:HB2	1.93	0.50
7:b4:645:THR:OG1	7:b9:629:ILE:O	2.29	0.50
7:b5:202:GLU:OE1	7:b5:203:ALA:N	2.40	0.50
7:b7:639:THR:HB	7:cB:624:VAL:HG12	1.92	0.50
7:bQ:564:ILE:HD11	7:cO:642:PHE:CE2	2.46	0.50
7:bR:564:ILE:HD11	7:cP:642:PHE:CE1	2.43	0.50
7:cA:455:LYS:HB2	7:cA:470:LEU:HD13	1.91	0.50
7:cB:40:GLN:H	7:cB:81:VAL:HG23	1.75	0.50
7:cB:430:ARG:NH2	7:cB:443:ILE:O	2.43	0.50
7:cB:641:ASN:HB2	7:cK:626:THR:HG22	1.93	0.50
7:cK:400:ARG:HD3	7:cK:403:CYS:SG	2.51	0.50
7:cL:225:LEU:HD12	7:cL:324:PHE:HB2	1.93	0.50
7:cP:400:ARG:HD3	7:cP:403:CYS:SG	2.50	0.50
8:eB:60:LEU:HB3	8:f9:63:ASN:CG	2.35	0.50
8:eU:333:ARG:HA	8:fR:336:GLN:HE21	1.76	0.50
8:eU:521:ARG:NH1	8:eU:533:ASP:OD2	2.45	0.50
8:f9:215:VAL:HG21	8:f9:252:LEU:C	2.36	0.50
8:fA:63:ASN:O	8:fA:63:ASN:ND2	2.44	0.50
8:fS:110:ILE:HD12	8:fS:302:GLU:HA	1.93	0.50
8:fS:489:GLN:HA	8:fS:620:THR:HG22	1.93	0.50
8:fU:340:VAL:HG23	8:fr:401:LEU:HA	1.92	0.50
8:fW:454:ILE:HG22	8:fW:455:PHE:H	1.75	0.50
8:fW:457:SER:O	8:fW:634:THR:OG1	2.28	0.50
9:gE:221:LEU:O	9:gE:225:VAL:HG12	2.10	0.50
11:h1:54:MET:O	11:h1:56:ARG:N	2.44	0.50
11:hh:41:LEU:HD13	11:hi:142:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:m1:73:VAL:HG11	15:m1:106:VAL:HG11	1.92	0.50
16:pB:97:ASN:OD1	16:pB:97:ASN:N	2.45	0.50
17:q7:15:ASP:OD1	17:q7:18:ARG:NH2	2.44	0.50
1:S0:14:ARG:HH21	1:S5:21:THR:HG21	1.75	0.50
1:S0:66:VAL:HG21	1:S0:80:THR:HB	1.92	0.50
1:S1:77:THR:HG22	1:S1:80:THR:H	1.75	0.50
1:S1:263:VAL:O	1:S2:255:SER:OG	2.23	0.50
1:S2:50:ALA:HB3	1:S2:58:LEU:HB3	1.93	0.50
1:S2:283:TRP:NE1	1:S3:272:GLN:HE21	2.08	0.50
1:SA:514:PRO:O	1:SA:516:ASN:ND2	2.41	0.50
1:SP:488:TYR:OH	1:SP:510:ASN:OD1	2.29	0.50
1:SQ:67:ILE:HA	1:SQ:84:ARG:HH21	1.77	0.50
2:T6:50:VAL:HG12	2:T6:51:ALA:H	1.77	0.50
2:T6:114:GLY:HA3	2:T6:143:TYR:CZ	2.46	0.50
2:Tf:23:ILE:HG13	2:Tf:24:LEU:N	2.25	0.50
3:UN:120:MET:HE1	3:UN:128:LYS:HE3	1.93	0.50
3:Vr:103:SER:H	3:Vr:118:THR:HG1	1.60	0.50
4:WI:261:ARG:HD2	4:WI:297:GLY:HA3	1.93	0.50
4:WI:290:SER:HA	4:WI:371:PHE:N	2.19	0.50
4:WJ:188:VAL:HG11	4:WK:129:ARG:HH21	1.75	0.50
4:WK:323:THR:HB	4:WK:355:ASP:HB3	1.92	0.50
4:Wj:89:TYR:O	4:Wj:91:LYS:HG2	2.12	0.50
4:Wj:198:ASN:ND2	4:Wl:243:GLN:OE1	2.44	0.50
4:Wk:49:TRP:CD1	4:Wk:67:SER:HG	2.28	0.50
4:Wl:2:LYS:H	4:Wn:41:ASP:HB3	1.77	0.50
4:Wm:276:LEU:O	4:Wm:278:GLY:N	2.43	0.50
4:Wn:62:ALA:HB1	4:Wn:82:PRO:HG3	1.91	0.50
4:XJ:12:ASP:C	5:Yc:986:ARG:HH21	2.20	0.50
4:XJ:261:ARG:HB3	4:XJ:296:PHE:HD1	1.76	0.50
4:XJ:388:ASN:HD22	4:XJ:389:ASP:H	1.59	0.50
4:XJ:426:ASP:O	4:XJ:479:LYS:NZ	2.45	0.50
4:XK:313:PHE:CD2	4:XK:320:LEU:HD21	2.46	0.50
4:Xk:12:ASP:OD2	5:Yy:1005:ARG:NH1	2.44	0.50
4:Xm:181:PHE:HE2	4:Xm:246:THR:HB	1.76	0.50
4:Xo:266:LEU:HA	4:Xo:377:HIS:O	2.11	0.50
5:YC:217:GLN:HG2	5:YC:218:THR:HG23	1.92	0.50
5:YY:325:LYS:HG3	5:YY:356:THR:HB	1.93	0.50
5:Yc:72:ALA:HA	5:Yc:78:TYR:CE2	2.46	0.50
6:ZZ:9:ARG:HD2	6:Zb:60:TYR:CE2	2.46	0.50
6:Za:43:ARG:NH1	6:Za:46:PRO:O	2.43	0.50
6:Za:92:ARG:HB3	6:Za:208:ILE:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Zc:274:ILE:HB	6:Zc:311:TYR:HB3	1.93	0.50
6:Zc:274:ILE:HD11	6:Zc:330:ILE:HD12	1.94	0.50
7:b5:106:PRO:HB2	7:b5:139:LYS:HD2	1.94	0.50
7:b7:23:SER:O	7:b7:76:ASN:HB2	2.11	0.50
7:bO:455:LYS:HB2	7:bO:470:LEU:HD13	1.92	0.50
7:cA:28:ALA:HB2	7:cA:370:VAL:HG21	1.92	0.50
7:cA:264:THR:O	7:cA:266:LYS:N	2.44	0.50
7:cB:2:THR:OG1	7:cB:3:LEU:N	2.42	0.50
7:cC:239:VAL:HG22	7:cC:280:ALA:HB3	1.93	0.50
7:cD:57:PRO:HG3	7:cD:65:PHE:CD1	2.45	0.50
7:cE:121:VAL:HG13	7:cE:166:ASN:HA	1.92	0.50
7:cF:94:PRO:HD3	7:cF:222:VAL:O	2.12	0.50
7:cK:592:LEU:HD23	7:cK:604:TYR:HB2	1.92	0.50
7:dS:391:LYS:NZ	7:dS:440:ASN:O	2.42	0.50
7:dU:640:LEU:HD11	7:dV:10:LEU:HD21	1.93	0.50
7:dW:240:SER:OG	7:dW:243:ASP:OD1	2.30	0.50
7:dZ:635:ILE:O	7:dZ:636:ASN:ND2	2.44	0.50
8:fB:22:VAL:HG11	16:pA:95:ALA:HB2	1.94	0.50
8:fB:66:TYR:OH	14:IV:56:PRO:HG2	2.11	0.50
8:fS:357:ILE:HD12	8:fS:376:ALA:HB1	1.93	0.50
8:fW:94:GLN:HE21	8:fW:100:PRO:HD2	1.75	0.50
8:fW:144:ASN:OD1	8:fW:144:ASN:N	2.27	0.50
8:fs:56:LEU:HD21	15:m6:11:ILE:HD12	1.93	0.50
11:hM:2:PHE:HB3	11:hX:97:ASN:HB3	1.93	0.50
11:hF:58:ILE:HD11	11:hK:6:VAL:HG21	1.93	0.50
11:hF:75:ASN:ND2	11:hF:151:GLN:OE1	2.42	0.50
11:hh:58:ILE:HD11	11:hm:6:VAL:HG21	1.92	0.50
11:hw:19:ASN:OD1	11:hw:19:ASN:N	2.35	0.50
11:hy:37:LYS:NZ	11:hy:152:THR:OG1	2.42	0.50
12:iD:203:MET:O	12:iD:206:GLN:NE2	2.38	0.50
12:iD:279:ARG:NH2	12:iD:293:GLU:OE2	2.44	0.50
12:iF:62:THR:HG23	12:iF:63:LYS:HG3	1.92	0.50
16:o0:50:GLU:N	17:q3:94:GLN:O	2.42	0.50
16:o0:248:GLY:HA2	16:o6:307:LYS:NZ	2.25	0.50
1:S0:379:ILE:HG23	1:S0:382:ARG:HG2	1.94	0.50
1:S2:146:SER:H	1:S2:149:GLN:HB2	1.76	0.50
1:S3:66:VAL:O	1:S3:84:ARG:NH2	2.45	0.50
1:S5:405:ARG:HD2	1:S5:430:THR:HB	1.92	0.50
1:S7:5:THR:HG23	4:Xo:196:ARG:CZ	2.41	0.50
1:SA:121:PHE:HZ	1:Sw:125:LEU:HB2	1.76	0.50
1:SA:486:ASP:OD1	1:SA:486:ASP:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sw:20:PRO:HB3	1:Sw:29:ILE:HG13	1.92	0.50
2:T2:133:VAL:HG21	2:T2:137:LEU:HD13	1.92	0.50
2:T2:194:ARG:HH21	2:T2:259:ASN:HA	1.76	0.50
2:TF:97:ILE:HG12	2:TF:125:GLN:HB3	1.93	0.50
2:TH:89:THR:HG22	2:TH:94:VAL:HG13	1.92	0.50
2:Td:219:ILE:HG13	2:Td:234:GLU:HA	1.93	0.50
3:UL:107:VAL:HG22	3:UL:174:TYR:HD2	1.77	0.50
3:Vq:143:ILE:HD11	3:Vu:40:ILE:HD13	1.93	0.50
3:Vr:28:ASP:OD2	3:Vt:60:HIS:NE2	2.45	0.50
3:Vu:73:ASN:ND2	3:Vu:76:GLY:H	2.08	0.50
4:WJ:180:VAL:HG13	4:WJ:181:PHE:N	2.26	0.50
4:WK:62:ALA:HA	4:WK:68:TYR:HE2	1.77	0.50
4:Wj:248:MET:HB2	4:Wj:254:TRP:CD1	2.46	0.50
4:Wk:310:GLU:OE2	4:Wm:258:TYR:OH	2.28	0.50
4:Wl:18:TYR:HB3	4:Wl:21:LYS:H	1.76	0.50
4:Wl:147:LYS:HB2	4:Wn:153:LYS:HA	1.92	0.50
4:Wl:213:GLY:O	4:Wl:214:SER:OG	2.26	0.50
4:Wn:229:ASN:OD1	4:Wn:230:ILE:N	2.44	0.50
4:Xj:362:GLU:HG3	4:Xj:363:ASN:H	1.76	0.50
4:Xi:334:ALA:HB1	4:Xi:337:ASP:HA	1.93	0.50
4:Xn:82:PRO:O	4:Xn:143:TRP:HH2	1.95	0.50
5:YY:13:ILE:HD11	5:YY:21:VAL:HG12	1.93	0.50
5:YY:894:THR:O	5:YY:894:THR:OG1	2.28	0.50
5:Yc:342:SER:HB2	5:Yc:345:TYR:HB3	1.93	0.50
5:Yx:415:ARG:NH1	5:Yx:418:GLY:O	2.44	0.50
5:Yy:120:ASN:HB2	5:Yy:155:PRO:O	2.10	0.50
5:Yy:737:THR:HB	5:Yy:740:ILE:HD12	1.92	0.50
6:ZE:181:GLU:HB2	6:ZE:182:PRO:HD3	1.94	0.50
6:ZE:246:THR:HG23	6:ZE:333:THR:HG22	1.93	0.50
6:aD:35:ASN:HA	6:aD:277:ASN:HD21	1.77	0.50
6:ac:140:GLY:HA3	6:ac:162:PRO:HA	1.92	0.50
6:ac:181:GLU:HB2	6:ac:182:PRO:HD3	1.93	0.50
7:b3:515:ASP:OD1	7:b4:5:SER:N	2.44	0.50
7:b8:198:ILE:HG23	7:b8:324:PHE:HE2	1.76	0.50
7:b9:157:VAL:HG23	7:b9:159:GLU:H	1.76	0.50
7:bQ:332:GLU:N	7:bQ:332:GLU:OE1	2.41	0.50
7:cD:406:LEU:HD13	7:cD:475:ALA:HB2	1.93	0.50
7:cE:103:ILE:HD13	7:cE:182:ILE:HG22	1.93	0.50
7:cE:538:ASP:OD1	7:cE:538:ASP:N	2.45	0.50
7:cF:239:VAL:HG22	7:cF:280:ALA:HB3	1.93	0.50
7:cJ:511:GLN:OE1	7:cJ:514:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cN:240:SER:OG	7:cN:243:ASP:OD1	2.28	0.50
7:cO:44:VAL:HG11	7:cO:50:LEU:HB2	1.94	0.50
7:cO:455:LYS:HB2	7:cO:470:LEU:HD13	1.94	0.50
7:cP:198:ILE:HG23	7:cP:324:PHE:HE2	1.76	0.50
7:dZ:279:TYR:OH	7:dZ:332:GLU:HA	2.11	0.50
8:eB:427:ASN:N	8:eB:427:ASN:OD1	2.39	0.50
8:fR:47:ASP:N	15:m5:21:LYS:O	2.40	0.50
8:fR:357:ILE:HD12	8:fR:376:ALA:HB1	1.94	0.50
8:fr:152:ILE:HD11	8:fs:438:GLY:HA3	1.93	0.50
10:gd:22:VAL:HG22	10:gd:43:ILE:HG22	1.94	0.50
11:hp:97:ASN:HA	11:hw:3:VAL:HG12	1.93	0.50
11:hw:41:LEU:HD13	11:hx:142:LEU:HD22	1.93	0.50
14:k3:42:GLY:HA3	16:pB:276:LYS:HE2	1.92	0.50
16:o1:323:LYS:HB3	16:o1:339:PRO:HG3	1.93	0.50
17:q7:216:PHE:HB2	17:q7:218:MET:SD	2.51	0.50
1:S1:448:ALA:N	1:S2:485:ASN:OD1	2.44	0.50
1:S2:462:ASN:HD22	1:S2:462:ASN:N	2.08	0.50
1:S4:449:GLY:HA2	1:S6:484:THR:HG22	1.93	0.50
1:S5:143:LYS:HA	1:S7:134:SER:HB2	1.93	0.50
1:SQ:524:LYS:HE2	1:SQ:527:GLU:HA	1.93	0.50
1:Sz:286:ASP:OD1	1:Sz:286:ASP:N	2.44	0.50
2:T9:212:ARG:HG3	2:T9:213:LYS:HG3	1.93	0.50
2:TG:92:VAL:HG12	5:YC:55:ARG:HH22	1.76	0.50
2:Tf:67:TYR:CD2	2:Tf:84:ARG:HB3	2.47	0.50
3:UN:193:TRP:CZ3	3:UN:217:ARG:HB2	2.46	0.50
3:Uq:147:LYS:O	3:Uq:157:GLU:N	2.43	0.50
3:Ut:127:ALA:HA	3:Ut:130:ARG:HH11	1.77	0.50
3:VL:6:ASN:HB3	3:VM:12:SER:HB3	1.94	0.50
3:VN:47:PHE:HE2	3:VN:51:ASN:HB3	1.76	0.50
4:WJ:193:VAL:HG13	4:WJ:199:GLU:HB3	1.93	0.50
4:WK:30:PHE:O	4:WK:34:TYR:HB2	2.11	0.50
4:Wj:99:PHE:HA	4:Wn:138:CYS:SG	2.52	0.50
4:Wj:150:GLN:HE21	4:Wj:153:LYS:HB3	1.75	0.50
4:Wj:361:ASP:OD1	4:Wj:362:GLU:N	2.45	0.50
4:Wl:198:ASN:ND2	4:Wn:194:LYS:HD3	2.26	0.50
4:Wn:400:ILE:O	4:Wn:403:THR:OG1	2.28	0.50
4:Wo:208:GLU:HA	4:Wo:233:ARG:HH22	1.76	0.50
4:Xl:65:GLY:HA3	4:XJ:44:TYR:HA	1.93	0.50
4:XJ:339:GLU:HG3	4:XJ:340:VAL:HG22	1.93	0.50
4:Xj:96:ARG:HH11	4:Xj:151:ILE:HD11	1.76	0.50
4:Xl:258:TYR:HE1	4:Xl:384:THR:HG23	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:397:ASP:OD1	4:XI:398:GLU:N	2.43	0.50
4:Xm:335:ASP:N	4:Xm:335:ASP:OD1	2.43	0.50
5:YC:61:TYR:HE2	6:ZD:156:LEU:HD21	1.76	0.50
5:YC:851:ASN:OD1	5:YC:851:ASN:N	2.38	0.50
5:YC:947:VAL:HA	6:ZD:118:PRO:HB2	1.92	0.50
5:YX:27:ASP:HB3	5:YX:65:ASN:HB3	1.93	0.50
5:YY:506:MET:HG3	5:YY:507:LYS:H	1.75	0.50
5:YY:917:LYS:O	5:YY:1005:ARG:N	2.31	0.50
5:Yc:993:LEU:C	5:Yc:995:ASP:H	2.19	0.50
5:Yx:43:THR:HG23	5:Yx:50:PRO:HG3	1.93	0.50
5:Yx:234:SER:O	5:Yx:236:THR:OG1	2.27	0.50
5:Yy:437:ASP:HB3	5:Yy:523:ARG:HD3	1.93	0.50
6:Zb:37:ILE:HD13	6:Zb:249:PHE:HE2	1.76	0.50
6:Zb:75:MET:HE3	6:Zb:299:PRO:HB3	1.93	0.50
6:aD:34:LYS:O	6:aD:291:LYS:NZ	2.43	0.50
6:aD:225:TYR:HE2	6:aD:238:LEU:HD13	1.76	0.50
6:ab:117:ALA:O	6:ab:121:ALA:N	2.42	0.50
6:ac:115:ASN:HA	6:ac:121:ALA:HA	1.94	0.50
7:b5:108:SER:O	7:b5:177:GLY:HA2	2.11	0.50
7:b6:256:PRO:HG2	7:b6:339:THR:H	1.76	0.50
7:bP:427:VAL:O	7:bP:431:THR:OG1	2.28	0.50
7:bQ:303:ASP:OD1	7:bQ:304:ILE:N	2.44	0.50
7:bR:39:PHE:HB3	7:bR:361:PHE:CE1	2.46	0.50
7:cA:247:GLY:HA2	7:cA:266:LYS:HG3	1.93	0.50
7:cH:394:VAL:HG11	7:cH:443:ILE:HD12	1.93	0.50
7:cJ:202:GLU:OE1	7:cJ:203:ALA:N	2.40	0.50
7:cM:108:SER:O	7:cM:177:GLY:HA2	2.12	0.50
7:cM:400:ARG:HD3	7:cM:403:CYS:SG	2.51	0.50
7:cO:105:THR:HB	7:cO:181:VAL:H	1.75	0.50
7:dS:171:ILE:H	7:dS:171:ILE:HD13	1.76	0.50
7:dS:457:GLN:HG2	7:dS:458:TYR:H	1.76	0.50
7:dS:606:VAL:HG12	7:dS:627:PHE:CD2	2.46	0.50
7:dT:505:LEU:HD22	7:dT:533:TYR:HD2	1.77	0.50
7:dU:101:TYR:OH	7:dU:216:LYS:O	2.29	0.50
7:dV:351:THR:OG1	7:dV:352:ALA:N	2.44	0.50
7:dV:591:TYR:O	7:dV:595:ILE:HG12	2.12	0.50
7:dW:8:ILE:HG21	15:m6:62:PHE:CZ	2.47	0.50
8:eB:206:TRP:CD1	8:eB:222:THR:HB	2.47	0.50
8:eB:378:PRO:HG3	8:eB:384:LEU:HD12	1.93	0.50
8:eW:414:LEU:HB3	8:eW:640:ILE:HG12	1.94	0.50
8:f9:484:MET:HE1	8:f9:503:ASN:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fB:462:SER:O	8:fB:466:THR:HG23	2.10	0.50
8:fS:543:THR:OG1	8:fS:576:ASP:OD2	2.30	0.50
8:fU:219:SER:OG	8:fU:256:TYR:O	2.24	0.50
8:fW:76:TYR:OH	14:k4:29:PHE:O	2.29	0.50
8:fs:94:GLN:NE2	8:fs:99:LEU:HD13	2.26	0.50
9:gG:525:ASN:OD1	9:gG:525:ASN:N	2.44	0.50
9:gH:221:LEU:O	9:gH:225:VAL:HG12	2.11	0.50
11:h1:24:GLU:OE1	11:h1:114:ARG:NH1	2.38	0.50
11:hK:70:THR:HG22	11:hK:156:THR:HG22	1.92	0.50
11:hl:137:VAL:HB	11:hl:155:VAL:HG13	1.93	0.50
11:hm:48:LYS:HG3	11:hm:59:ASN:HB3	1.93	0.50
11:hp:56:ARG:HB3	11:hp:56:ARG:NH1	2.27	0.50
12:iF:297:ARG:NH1	13:ja:587:THR:OG1	2.45	0.50
15:mT:89:ASP:CG	16:o0:264:PRO:HG3	2.37	0.50
16:o2:245:GLU:HB3	16:o2:264:PRO:HB3	1.92	0.50
16:o2:313:PRO:O	16:o2:351:ILE:HG12	2.11	0.50
16:o6:38:PHE:HB3	16:o6:39:PRO:HD3	1.94	0.50
16:o6:256:SER:O	16:pA:303:LYS:NZ	2.27	0.50
16:pA:322:ASP:HB2	16:pA:343:THR:HG23	1.92	0.50
1:S0:449:GLY:HA2	1:S5:484:THR:HG22	1.93	0.50
1:S2:359:TRP:CE2	1:S2:524:LYS:HD3	2.46	0.50
1:S4:19:ASP:O	1:S8:33:GLN:NE2	2.44	0.50
1:S4:401:ARG:HG2	1:S8:518:SER:HA	1.93	0.50
1:S8:221:THR:HG23	1:S8:224:TYR:H	1.77	0.50
1:SA:212:PRO:HB3	1:Sw:199:VAL:HA	1.94	0.50
1:SP:190:VAL:HG12	1:SQ:190:VAL:HG12	1.93	0.50
1:Sv:496:ARG:NH1	1:Sv:501:THR:OG1	2.45	0.50
1:Sx:163:LEU:HB3	1:Sz:155:ASP:HA	1.91	0.50
2:T3:215:LYS:HD3	2:T3:250:ALA:HB3	1.94	0.50
2:T3:219:ILE:HG21	2:T3:254:PHE:HE2	1.77	0.50
2:T7:121:PRO:HB3	2:T7:140:THR:HG22	1.94	0.50
2:T9:176:GLU:HG3	2:T9:277:LYS:HG3	1.93	0.50
2:Td:204:VAL:HG11	2:Td:252:ILE:HG12	1.94	0.50
2:Te:213:LYS:HA	2:Te:241:GLY:HA3	1.94	0.50
3:UM:9:GLY:C	3:UN:13:ARG:HD2	2.36	0.50
3:Ut:80:GLU:HG2	3:Ut:192:THR:HA	1.93	0.50
3:VM:70:ILE:HG12	3:VN:73:ASN:HA	1.93	0.50
3:VN:42:GLN:NE2	3:VN:51:ASN:OD1	2.45	0.50
3:Vt:42:GLN:NE2	3:Vt:51:ASN:OD1	2.44	0.50
4:WI:520:GLY:O	4:WK:591:PRO:HA	2.11	0.50
4:WK:202:TYR:OH	4:WK:223:VAL:O	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wj:193:VAL:O	4:Wj:199:GLU:N	2.42	0.50
4:Wk:214:SER:OG	4:Wk:222:LEU:O	2.28	0.50
4:Wl:303:PRO:HG2	4:Wl:365:ILE:HG21	1.94	0.50
4:Wn:109:LEU:HB3	4:Wn:124:VAL:HG23	1.94	0.50
4:Xi:89:TYR:CE1	4:Xi:139:ALA:HA	2.47	0.50
4:Xj:393:LEU:HD21	4:Xn:390:LEU:HG	1.94	0.50
4:Xm:258:TYR:O	4:Xm:259:THR:OG1	2.28	0.50
5:YC:52:ASN:OD1	5:YC:53:GLN:NE2	2.44	0.50
5:YC:105:THR:OG1	5:YC:626:GLN:NE2	2.43	0.50
5:YC:347:GLU:HB2	5:YC:349:LEU:HD23	1.93	0.50
5:YX:737:THR:OG1	8:eU:215:VAL:HG11	2.12	0.50
5:YY:349:LEU:HD13	5:YY:350:PHE:H	1.76	0.50
5:Yc:777:LEU:HD23	5:Yc:809:TRP:CG	2.46	0.50
5:Yx:126:LYS:HD3	5:Yx:135:VAL:HG23	1.93	0.50
5:Yx:437:ASP:HB3	5:Yx:523:ARG:HD3	1.92	0.50
5:Yy:653:MET:HG2	5:Yy:658:LEU:HG	1.93	0.50
6:Za:59:PRO:O	6:Za:314:ASN:ND2	2.31	0.50
6:aD:49:SER:OG	6:aD:50:ASN:N	2.42	0.50
7:b0:129:GLY:HA3	7:b0:145:ILE:HD13	1.93	0.50
7:b3:166:ASN:OD1	7:b3:166:ASN:N	2.45	0.50
7:b5:417:ILE:HD13	7:b5:417:ILE:H	1.76	0.50
7:b5:617:VAL:HG22	7:b5:622:GLU:HB2	1.93	0.50
7:bP:41:ILE:HD11	7:bP:361:PHE:HB3	1.93	0.50
7:bY:303:ASP:OD1	7:bY:304:ILE:N	2.44	0.50
7:cA:455:LYS:HD2	7:cA:502:VAL:HG22	1.93	0.50
7:cG:28:ALA:HB2	7:cG:370:VAL:HG21	1.93	0.50
7:cH:40:GLN:H	7:cH:81:VAL:HG23	1.77	0.50
7:cH:417:ILE:H	7:cH:417:ILE:HD13	1.77	0.50
7:cI:41:ILE:HD11	7:cI:361:PHE:HB3	1.92	0.50
7:cL:403:CYS:O	7:cL:558:ASN:ND2	2.38	0.50
7:cL:495:ASN:OD1	7:cL:495:ASN:N	2.34	0.50
7:dW:488:TRP:O	7:dW:552:ASN:ND2	2.45	0.50
8:eB:126:PRO:HD2	8:eB:292:LEU:HD21	1.92	0.50
8:fB:44:LEU:HD11	15:nT:125:GLN:HA	1.93	0.50
8:fU:524:VAL:HA	8:fU:530:LEU:H	1.75	0.50
9:gG:436:ASP:OD1	9:gG:437:ASN:N	2.33	0.50
11:hJ:24:GLU:OE1	11:hJ:33:THR:OG1	2.29	0.50
11:hg:54:MET:HE3	11:hm:20:LEU:HA	1.92	0.50
11:hl:57:LYS:HE3	11:hs:147:ASN:HD21	1.75	0.50
11:hp:46:VAL:HG22	11:hp:64:ARG:HB2	1.92	0.50
16:pB:257:THR:C	16:pB:259:ILE:H	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S0:126:ASN:OD1	1:S5:132:ARG:NH1	2.45	0.50
1:S0:220:SER:HB2	1:S0:228:ILE:HG23	1.93	0.50
1:S0:230:LEU:HD21	1:S5:242:SER:HA	1.94	0.50
1:S1:401:ARG:HB3	1:S3:399:PHE:HE1	1.76	0.50
1:S1:405:ARG:NH2	1:S1:415:ASN:OD1	2.44	0.50
1:S6:170:ILE:O	1:S6:174:ALA:HB2	2.11	0.50
1:S6:251:ASN:O	1:S8:260:ARG:NH1	2.41	0.50
1:S8:101:SER:O	1:S8:120:LYS:NZ	2.39	0.50
1:SO:473:LYS:HZ1	4:Xo:362:GLU:HA	1.76	0.50
1:SO:525:VAL:HG23	1:SO:526:LYS:HG2	1.94	0.50
1:Sw:61:PRO:HD3	1:Sw:74:LYS:HB3	1.92	0.50
2:T6:100:ARG:HB2	2:T6:127:ILE:HG21	1.93	0.50
2:TF:50:VAL:HG12	2:TF:51:ALA:H	1.77	0.50
2:TF:204:VAL:HG22	2:TF:276:VAL:HG22	1.94	0.50
2:Td:199:MET:HG2	2:Td:282:GLN:HB3	1.94	0.50
2:Ti:50:VAL:HG12	2:Ti:51:ALA:H	1.77	0.50
3:UL:90:PHE:CE1	3:UL:178:ILE:HG23	2.47	0.50
3:Up:73:ASN:ND2	3:Up:76:GLY:H	2.09	0.50
3:Ut:149:HIS:HB3	3:Ut:152:ASP:O	2.11	0.50
3:Uu:39:THR:OG1	3:Uu:42:GLN:OE1	2.13	0.50
4:WJ:150:GLN:C	4:WJ:151:ILE:HG13	2.36	0.50
4:Wl:261:ARG:HB3	4:Wl:296:PHE:HD1	1.77	0.50
4:Wl:397:ASP:OD1	4:Wl:398:GLU:N	2.44	0.50
4:Wn:312:ARG:HB3	4:Wn:316:ILE:O	2.12	0.50
4:Wo:559:PRO:HB3	5:YY:228:ARG:HH22	1.76	0.50
4:Xl:13:ASP:OD1	4:Xl:14:GLY:N	2.44	0.50
4:XK:148:ASN:OD1	4:XK:150:GLN:NE2	2.45	0.50
4:Xl:153:LYS:HD3	4:Xl:154:ILE:N	2.26	0.50
4:Xl:258:TYR:O	4:Xl:259:THR:OG1	2.29	0.50
4:Xo:562:SER:C	4:Xo:564:PRO:HD3	2.37	0.50
5:YC:486:HIS:CD2	6:ZZ:65:VAL:HG13	2.46	0.50
5:YC:929:TYR:O	5:YC:931:ASP:N	2.45	0.50
5:YX:615:THR:OG1	8:eW:617:GLU:OE2	2.28	0.50
5:Yc:69:PHE:CZ	5:Yc:71:ASP:HB2	2.46	0.50
5:Yc:180:ILE:HD11	5:Yc:532:ALA:HB2	1.92	0.50
5:Yc:615:THR:OG1	8:eB:617:GLU:OE2	2.30	0.50
5:Yx:977:ILE:HD12	5:Yx:981:GLN:HA	1.93	0.50
5:Yy:412:THR:HG1	5:Yy:413:TRP:HD1	1.59	0.50
7:b3:28:ALA:HB2	7:b3:370:VAL:HG21	1.92	0.50
7:b3:414:VAL:HG23	7:b3:422:ALA:HB1	1.93	0.50
7:b5:44:VAL:HG11	7:b5:50:LEU:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bN:135:ASP:OD2	7:bN:139:LYS:NZ	2.45	0.50
7:cA:159:GLU:HB3	7:cA:163:LEU:HA	1.94	0.50
7:cC:421:ARG:O	7:cC:425:ASN:ND2	2.44	0.50
7:cD:480:ARG:HA	7:cD:483:ASN:HD22	1.77	0.50
7:cE:264:THR:O	7:cE:266:LYS:N	2.44	0.50
7:cF:403:CYS:O	7:cF:558:ASN:ND2	2.40	0.50
7:cI:107:GLY:HA3	7:cI:110:TYR:HE2	1.75	0.50
7:cI:639:THR:HB	7:cN:624:VAL:HG12	1.93	0.50
7:cP:26:THR:HA	7:cP:77:ASP:O	2.11	0.50
7:dS:571:ARG:NH2	7:dS:587:GLU:OE2	2.40	0.50
7:dV:378:CYS:SG	7:dV:408:SER:HB3	2.51	0.50
8:eB:94:GLN:NE2	8:eB:228:GLU:H	2.09	0.50
8:eU:414:LEU:HB3	8:eU:640:ILE:HG12	1.93	0.50
8:eW:169:GLN:NE2	8:eW:276:ASN:OD1	2.45	0.50
8:fA:209:TRP:HB2	8:fA:223:ILE:CG2	2.40	0.50
8:fB:418:THR:HB	8:fB:482:ILE:HG22	1.92	0.50
8:fR:45:ASP:OD1	8:fR:45:ASP:N	2.40	0.50
8:fS:135:ALA:HB2	8:fS:143:TYR:HE2	1.77	0.50
8:fU:642:PHE:HE1	8:fU:651:LEU:HD13	1.77	0.50
8:fs:53:LEU:HD22	15:m6:23:VAL:HG23	1.92	0.50
9:gH:280:MET:O	9:gH:284:MET:HG2	2.11	0.50
11:hF:64:ARG:NH1	11:hG:95:GLN:HG3	2.26	0.50
11:hK:49:ILE:HG22	11:hQ:148:ASN:HB3	1.93	0.50
11:hK:82:ARG:NH1	11:hK:138:GLY:HA2	2.26	0.50
11:hM:98:GLU:OE1	11:hM:98:GLU:N	2.39	0.50
11:hV:49:ILE:HG12	11:hV:60:VAL:HG12	1.93	0.50
11:hW:69:TRP:HB2	11:hW:159:LEU:HD23	1.92	0.50
11:hZ:98:GLU:N	11:hZ:98:GLU:OE1	2.42	0.50
12:iF:193:MET:HG2	12:iF:319:THR:HG21	1.93	0.50
14:k3:94:TYR:O	14:k3:98:ILE:HG13	2.12	0.50
16:o2:82:SER:O	16:o2:83:ASN:HB2	2.11	0.50
17:q3:23:SER:OG	17:q3:202:ASN:ND2	2.44	0.50
1:S2:401:ARG:NH1	1:S2:430:THR:O	2.45	0.50
1:SA:333:THR:OG1	1:SA:335:ASN:OD1	2.23	0.50
1:SP:170:ILE:O	1:SP:174:ALA:CB	2.59	0.50
1:Sx:291:ARG:HH12	1:Sz:268:THR:HG23	1.77	0.50
1:Sx:330:ARG:NH1	1:Sx:336:GLU:OE2	2.40	0.50
1:Sz:462:ASN:OD1	1:Sz:462:ASN:N	2.44	0.50
2:T1:282:GLN:NE2	2:T3:275:ALA:O	2.44	0.50
2:T2:114:GLY:HA3	2:T2:143:TYR:CZ	2.46	0.50
2:Tg:102:GLU:HA	2:Tg:153:SER:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UM:160:TYR:OH	3:UM:180:GLN:NE2	2.45	0.50
3:UN:73:ASN:ND2	3:UN:76:GLY:H	2.10	0.50
3:Uq:4:LEU:HG	4:Wm:318:GLN:HB3	1.94	0.50
3:Ur:9:GLY:C	3:Ut:13:ARG:HD2	2.37	0.50
3:Ur:127:ALA:HA	3:Ur:130:ARG:HH11	1.75	0.50
4:WI:222:LEU:HG	4:WI:224:PRO:HD2	1.93	0.50
4:Wj:43:PRO:HG3	4:Wn:33:LEU:HA	1.94	0.50
4:Wk:192:ARG:NH2	4:Wm:245:GLU:OE1	2.44	0.50
4:Wk:321:ALA:HA	4:Wk:358:VAL:HB	1.94	0.50
4:Wm:492:GLU:O	4:Wm:514:HIS:NE2	2.36	0.50
4:XJ:253:GLN:HB2	4:XJ:255:ARG:HE	1.75	0.50
4:XJ:464:VAL:HG21	4:XK:422:LEU:HD21	1.93	0.50
4:Xk:394:LEU:HD21	4:Xk:399:ILE:HD11	1.93	0.50
4:Xk:416:ILE:HG23	4:Xo:472:TYR:HA	1.93	0.50
4:Xm:110:VAL:HG22	4:Xm:123:PRO:HB3	1.94	0.50
4:Xn:177:PHE:HB2	4:Xn:230:ILE:HD11	1.92	0.50
4:Xo:135:LEU:HB3	4:Xo:145:TYR:HB3	1.94	0.50
5:YC:308:ALA:HA	5:YC:322:ALA:HB2	1.94	0.50
5:YC:925:LEU:HB2	5:YC:992:PRO:HD2	1.94	0.50
5:YX:355:MET:HE1	5:YX:412:THR:HA	1.92	0.50
5:YX:509:TYR:HB2	6:Zc:175:ASP:OD2	2.12	0.50
5:YX:521:ASN:OD1	5:YX:521:ASN:N	2.44	0.50
5:Yc:347:GLU:HB2	5:Yc:349:LEU:HD23	1.94	0.50
5:Yy:461:THR:HA	5:Yy:464:LYS:HG2	1.93	0.50
6:Zc:43:ARG:O	6:Zc:270:ARG:HG2	2.11	0.50
6:ac:42:GLY:HA2	6:ac:76:MET:HB2	1.93	0.50
7:b4:494:TYR:HE2	7:b4:528:THR:HG21	1.77	0.50
7:b7:455:LYS:HD3	7:b7:502:VAL:HG22	1.94	0.50
7:b8:103:ILE:HD13	7:b8:182:ILE:HG22	1.94	0.50
7:bP:488:TRP:HB3	7:bP:556:LEU:HB2	1.93	0.50
7:cA:66:MET:HB3	7:cA:468:VAL:HG11	1.94	0.50
7:cB:639:THR:HB	7:cK:624:VAL:HG12	1.93	0.50
7:cE:26:THR:HA	7:cE:77:ASP:O	2.12	0.50
7:cJ:26:THR:HA	7:cJ:77:ASP:O	2.11	0.50
7:cL:116:ILE:HD11	7:cL:131:ILE:HG12	1.94	0.50
7:cL:456:TYR:CE1	7:cL:465:ASN:HB3	2.47	0.50
7:dU:538:ASP:O	7:dU:550:ARG:HG3	2.12	0.50
7:dU:601:ILE:HD12	7:dU:629:ILE:HD13	1.94	0.50
7:dU:609:ASP:OD1	7:dU:609:ASP:N	2.43	0.50
7:dW:154:ALA:HB1	7:dW:159:GLU:O	2.11	0.50
8:eB:229:THR:OG1	8:eB:233:ASN:OD1	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eB:634:THR:HG21	8:eB:640:ILE:HG13	1.94	0.50
8:eW:45:ASP:OD2	15:m6:87:ARG:NH1	2.45	0.50
8:eW:466:THR:HG22	8:fR:466:THR:HG22	1.93	0.50
8:fA:215:VAL:HG21	8:fA:252:LEU:C	2.37	0.50
8:fr:38:ASN:OD1	8:fr:39:GLY:N	2.43	0.50
8:fs:274:SER:O	8:fs:274:SER:OG	2.23	0.50
11:hK:160:ASP:OD1	11:hK:160:ASP:N	2.44	0.50
11:hX:58:ILE:HD11	17:q4:7:PHE:CE2	2.47	0.50
11:hz:113:VAL:HG13	11:hz:127:ILE:HG12	1.93	0.50
12:iC:219:ILE:HG23	12:iC:222:PHE:HB2	1.93	0.50
12:iD:41:ARG:NH2	12:iD:47:ARG:HD2	2.26	0.50
16:o6:236:GLU:O	16:o6:288:SER:OG	2.19	0.50
16:pA:56:ASP:O	16:pA:59:LYS:HG2	2.12	0.50
1:S2:149:GLN:O	1:S2:153:GLY:HA2	2.12	0.50
1:S3:360:ARG:HG3	1:S3:525:VAL:HG21	1.93	0.50
1:S4:62:THR:N	1:S4:65:GLU:OE1	2.44	0.50
1:S8:47:VAL:HA	1:S8:57:ILE:HD12	1.93	0.50
1:SO:193:LEU:HB2	1:SP:185:GLU:HA	1.94	0.50
1:SO:308:ILE:HB	1:SP:315:ILE:HG23	1.94	0.50
1:SP:397:GLY:HA2	1:SQ:401:ARG:HE	1.77	0.50
2:T1:50:VAL:HG12	2:T1:51:ALA:H	1.76	0.50
2:T4:50:VAL:C	2:T4:52:ASN:H	2.20	0.50
2:Td:4:GLN:NE2	2:Th:61:ILE:O	2.35	0.50
2:Ti:201:LYS:HB3	2:Ti:280:ALA:HB3	1.94	0.50
3:UL:42:GLN:NE2	3:UL:51:ASN:OD1	2.44	0.50
3:UL:60:HIS:NE2	3:UN:28:ASP:OD2	2.44	0.50
3:Ur:43:LEU:HD11	3:Ut:141:THR:HG22	1.94	0.50
3:VL:120:MET:HB3	3:VL:124:GLU:HB2	1.93	0.50
3:VM:7:LYS:HG3	4:XK:316:ILE:HG21	1.92	0.50
3:VM:85:THR:HG22	3:VM:183:ILE:HD12	1.93	0.50
4:WI:166:GLU:N	4:WI:166:GLU:OE1	2.45	0.50
4:WJ:558:ASP:O	4:WJ:560:ASP:N	2.38	0.50
4:Wk:406:LEU:O	4:Wo:409:SER:HA	2.12	0.50
4:Wm:344:VAL:HG12	4:Wm:349:TRP:H	1.76	0.50
4:Wn:259:THR:OG1	4:Wn:385:TRP:HB2	2.12	0.50
4:Wn:394:LEU:HD13	4:Wn:398:GLU:HG2	1.93	0.50
4:Wn:425:PHE:O	4:Wn:479:LYS:NZ	2.35	0.50
4:XJ:397:ASP:OD1	4:XJ:398:GLU:N	2.45	0.50
4:XJ:527:LEU:HB2	4:XK:533:PRO:HD3	1.93	0.50
4:XK:265:LEU:O	4:XK:378:GLY:HA2	2.12	0.50
4:Xj:284:ASP:HB2	4:Xj:287:THR:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xn:176:ASP:HB3	4:Xn:231:ARG:HG3	1.94	0.50
5:YC:232:PRO:CG	5:YC:237:VAL:HG22	2.42	0.50
5:YX:899:PHE:CE1	6:Zb:331:LEU:HD12	2.47	0.50
5:YY:212:SER:HG	5:YY:219:TRP:CD1	2.29	0.50
5:Yc:327:ARG:HG2	5:Yc:353:ASP:HB3	1.94	0.50
6:aD:71:MET:HG2	6:aD:309:MET:HE1	1.94	0.50
6:aD:197:ASP:OD1	6:aD:197:ASP:N	2.43	0.50
7:b0:110:TYR:H	7:b0:138:GLY:HA3	1.75	0.50
7:b0:206:THR:HA	7:b0:211:GLN:HE21	1.76	0.50
7:b0:628:TYR:OH	7:b6:15:VAL:O	2.29	0.50
7:b8:114:ASP:HB2	7:b8:131:ILE:HG13	1.94	0.50
7:b9:76:ASN:O	7:b9:76:ASN:ND2	2.43	0.50
7:bN:26:THR:HA	7:bN:77:ASP:O	2.12	0.50
7:bN:430:ARG:HH21	7:bN:541:ALA:HB1	1.77	0.50
7:bO:109:ASN:ND2	7:bO:176:SER:O	2.44	0.50
7:bO:221:GLY:O	7:bO:325:ALA:HA	2.11	0.50
7:cA:57:PRO:HG3	7:cA:65:PHE:CD1	2.46	0.50
7:cG:82:ARG:NH2	7:cG:227:PRO:O	2.29	0.50
7:cG:485:SER:OG	7:cG:486:GLN:N	2.44	0.50
7:cH:481:THR:HG23	7:cH:496:ARG:HD2	1.94	0.50
7:dT:315:PHE:CE2	7:dT:325:ALA:HB3	2.46	0.50
7:dZ:369:ASP:OD1	7:dZ:369:ASP:N	2.45	0.50
7:dZ:601:ILE:HD12	7:dZ:629:ILE:HD13	1.93	0.50
8:eB:214:MET:HA	8:eB:217:ALA:HB2	1.94	0.50
8:eU:335:THR:OG1	8:fR:252:LEU:O	2.27	0.50
8:f9:592:ILE:HG13	8:f9:604:TRP:HB2	1.94	0.50
8:fA:63:ASN:OD1	8:fB:64:THR:OG1	2.23	0.50
8:fB:538:VAL:HG11	8:fB:558:PHE:CE1	2.46	0.50
8:fR:206:TRP:CE2	8:fR:222:THR:HB	2.46	0.50
8:fS:418:THR:HG22	8:fS:482:ILE:HG22	1.94	0.50
8:fS:519:SER:OG	8:fS:534:VAL:O	2.26	0.50
8:fW:227:ARG:NH1	8:fW:229:THR:HG22	2.27	0.50
9:gE:326:ARG:O	9:gE:330:ILE:HG12	2.12	0.50
9:gG:375:LEU:HD13	9:gG:455:LYS:HB3	1.93	0.50
11:hJ:58:ILE:HG22	11:hK:160:ASP:HB3	1.94	0.50
11:hk:38:ALA:HB3	11:hk:72:THR:HG23	1.93	0.50
11:hv:17:ARG:HG3	11:hv:20:LEU:HD12	1.92	0.50
11:hx:83:GLN:HA	11:hx:86:VAL:HG22	1.93	0.50
11:hy:43:ALA:O	11:hy:162:TRP:NE1	2.42	0.50
14:k3:124:ILE:HB	14:k3:136:LYS:HB3	1.92	0.50
14:kV:112:HIS:HB3	14:kV:150:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q3:178:VAL:HA	17:q3:181:VAL:HG12	1.94	0.50
17:q4:28:THR:HG22	17:q4:29:THR:H	1.77	0.50
17:q5:164:MET:HB3	17:q8:17:GLN:HB3	1.94	0.50
17:q7:100:LEU:HD23	17:q7:100:LEU:H	1.76	0.50
1:S0:24:ASN:ND2	1:S7:40:SER:O	2.36	0.50
1:S1:498:SER:O	1:S3:422:LYS:NZ	2.45	0.50
1:S3:493:GLU:HG3	1:S3:496:ARG:HH21	1.76	0.50
1:S6:44:VAL:HG22	1:S8:39:ILE:HG22	1.93	0.50
1:S8:365:GLY:HA2	1:Sy:71:ASN:HB2	1.93	0.50
1:SA:341:ILE:HD11	1:Sy:341:ILE:HG13	1.92	0.50
1:SO:407:SER:N	1:SQ:394:ASP:OD2	2.44	0.50
1:SQ:220:SER:HB2	1:SQ:228:ILE:HG23	1.93	0.50
1:Sw:411:ASN:HB3	1:Sw:414:VAL:HG22	1.94	0.50
1:Sy:213:TYR:O	1:Sy:217:ASN:ND2	2.45	0.50
1:Sz:330:ARG:NH1	1:Sz:331:ILE:O	2.45	0.50
2:T4:87:ILE:HG21	2:T4:122:LEU:HD12	1.93	0.50
2:T5:50:VAL:HG12	2:T5:51:ALA:H	1.77	0.50
2:Td:50:VAL:C	2:Td:52:ASN:H	2.20	0.50
2:Ti:69:LYS:HG2	2:Ti:86:ASP:HB3	1.94	0.50
3:Up:68:GLY:H	3:Up:217:ARG:HB3	1.76	0.50
3:Vt:114:VAL:HG21	3:Vt:129:VAL:HG22	1.93	0.50
4:WK:23:GLY:HA2	4:WK:26:ILE:HG22	1.92	0.50
4:Wj:253:GLN:HA	4:Wj:390:LEU:HD22	1.93	0.50
4:Wk:119:GLY:H	4:Wk:142:ARG:HH12	1.60	0.50
4:Wk:213:GLY:HA3	4:Wk:231:ARG:HB3	1.94	0.50
4:Wl:109:LEU:HB3	4:Wl:124:VAL:HG23	1.93	0.50
4:Wm:118:LYS:HE3	4:Wm:144:GLU:HA	1.93	0.50
4:Wo:285:LEU:HD22	4:Wo:375:PHE:H	1.77	0.50
4:XI:223:VAL:HB	4:XI:224:PRO:HD3	1.94	0.50
4:XJ:222:LEU:HG	4:XJ:224:PRO:HD2	1.93	0.50
4:XJ:309:LEU:HD22	4:XJ:321:ALA:HB2	1.94	0.50
4:Xk:552:VAL:HG11	4:Xo:569:TYR:CE2	2.47	0.50
4:Xk:588:ASN:OD1	4:Xm:588:ASN:ND2	2.43	0.50
4:XI:201:TYR:HE1	4:Xn:241:THR:HG21	1.76	0.50
4:XI:261:ARG:HB3	4:XI:296:PHE:CD1	2.47	0.50
4:Xm:266:LEU:HA	4:Xm:377:HIS:O	2.12	0.50
5:YC:43:THR:HG23	5:YC:50:PRO:HG3	1.94	0.50
5:YC:403:ILE:HD13	5:YC:501:PHE:HE2	1.76	0.50
5:Yc:600:PHE:O	5:Yc:602:TYR:N	2.45	0.50
5:Yc:894:THR:O	5:Yc:894:THR:OG1	2.22	0.50
6:ZD:54:VAL:HG23	6:ZE:5:SER:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZE:134:LEU:HB2	6:ZE:187:VAL:HG13	1.93	0.50
6:aZ:216:LEU:HD23	6:aZ:236:PHE:HB3	1.94	0.50
7:b6:206:THR:HA	7:b6:211:GLN:HE21	1.77	0.50
7:b6:484:VAL:HG13	7:b6:485:SER:H	1.75	0.50
7:b8:642:PHE:CE1	7:cC:564:ILE:HD11	2.47	0.50
7:bO:220:PRO:HD2	7:bO:338:LEU:HD21	1.93	0.50
7:bP:651:PHE:HB2	7:dU:605:ARG:HH21	1.77	0.50
7:bR:383:LEU:HD11	7:bR:436:TYR:CD1	2.47	0.50
7:bR:417:ILE:HD13	7:bR:417:ILE:H	1.77	0.50
7:bY:400:ARG:NH1	7:bY:402:ASP:OD1	2.45	0.50
7:cA:26:THR:HA	7:cA:77:ASP:O	2.12	0.50
7:cA:417:ILE:HD13	7:cA:417:ILE:H	1.75	0.50
7:cE:159:GLU:OE1	7:cE:164:GLY:N	2.45	0.50
7:cG:617:VAL:HG22	7:cG:622:GLU:HB2	1.94	0.50
7:cG:644:ALA:O	7:cG:645:THR:OG1	2.29	0.50
7:cI:410:PRO:O	7:cI:413:THR:HG22	2.12	0.50
7:cI:560:LEU:O	7:cI:564:ILE:HG12	2.12	0.50
7:cL:272:GLY:O	7:cL:274:GLN:NE2	2.45	0.50
7:cL:453:ASN:HB2	7:cL:506:ALA:HB3	1.94	0.50
7:dW:271:TYR:HE2	7:dW:304:ILE:HG13	1.77	0.50
8:eW:98:TYR:HB2	8:eW:332:LYS:HG3	1.93	0.50
8:fA:472:ASP:C	8:fA:474:SER:H	2.20	0.50
8:fA:619:GLN:HG2	8:fA:620:THR:HG23	1.94	0.50
8:fB:363:PHE:CD2	8:fB:636:ASP:HB2	2.46	0.50
8:fR:327:GLU:O	8:fR:331:ILE:HG12	2.12	0.50
8:fR:543:THR:OG1	8:fR:576:ASP:OD2	2.29	0.50
8:fR:634:THR:HG22	8:fR:640:ILE:HG13	1.93	0.50
9:gE:1:MET:SD	9:gE:3:MET:HG3	2.52	0.50
11:hm:82:ARG:NH1	11:hm:138:GLY:HA2	2.26	0.50
11:hn:23:VAL:HG11	11:hn:39:THR:HG21	1.94	0.50
11:ho:54:MET:HE3	11:hy:20:LEU:HA	1.94	0.50
15:mT:85:GLU:OE2	15:mT:87:ARG:NE	2.45	0.50
16:o1:34:TYR:OH	16:o1:243:ALA:HA	2.11	0.50
16:pA:149:SER:O	16:pA:153:ARG:NH1	2.44	0.50
17:q5:3:SER:H	17:q5:6:GLU:HB3	1.76	0.50
17:q7:24:CYS:HB3	17:q7:125:ILE:HD13	1.94	0.50
1:S0:39:ILE:HD13	1:S5:39:ILE:HD13	1.93	0.49
1:S3:324:GLY:HA3	1:S3:331:ILE:HD12	1.94	0.49
1:S5:513:ARG:NH2	1:S7:441:GLN:OE1	2.45	0.49
1:SA:228:ILE:HD12	1:SA:244:ALA:HB2	1.94	0.49
1:SP:6:TYR:O	4:WJ:234:GLN:NE2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SP:213:TYR:O	1:SP:217:ASN:ND2	2.45	0.49
1:Sv:229:LYS:HG3	1:Sv:243:VAL:HG12	1.94	0.49
1:Sy:173:ILE:HD12	1:Sy:176:ILE:HG21	1.93	0.49
2:T6:61:ILE:O	2:T8:4:GLN:NE2	2.45	0.49
2:TG:1:MET:HG2	2:TG:70:HIS:CD2	2.46	0.49
2:Ti:67:TYR:HD2	2:Ti:84:ARG:HB3	1.77	0.49
3:Vu:47:PHE:CZ	3:Vu:49:GLU:HB2	2.47	0.49
4:WJ:195:HIS:C	4:WJ:197:GLY:H	2.20	0.49
4:Wl:64:TRP:O	4:Wl:93:ILE:HG22	2.12	0.49
4:Wl:200:LEU:HD11	4:Wn:241:THR:HG21	1.94	0.49
4:XI:104:VAL:HG13	4:XI:105:ASN:H	1.76	0.49
4:XI:460:TYR:OH	4:XI:462:ASN:ND2	2.45	0.49
4:Xm:314:ASN:HA	4:Xm:380:ILE:HG13	1.94	0.49
4:Xn:323:THR:HB	4:Xn:355:ASP:HB3	1.93	0.49
4:Xn:404:ASP:OD1	4:Xn:404:ASP:N	2.44	0.49
5:YC:435:SER:HB3	5:YC:512:PRO:HA	1.93	0.49
5:YY:926:PRO:HB2	5:YY:985:GLU:CD	2.37	0.49
5:Yc:327:ARG:HD2	5:Yc:350:PHE:CE2	2.47	0.49
5:Yx:140:ASP:HB3	5:Yx:589:LYS:HD2	1.94	0.49
5:Yx:347:GLU:HB2	5:Yx:349:LEU:HD23	1.93	0.49
5:Yx:449:LYS:HB3	6:aa:73:THR:HG21	1.94	0.49
5:Yx:712:ASN:ND2	5:Yx:720:ARG:HG3	2.26	0.49
5:Yy:694:TYR:HD2	5:Yy:696:ARG:HG2	1.77	0.49
5:Yy:769:ASP:OD2	5:Yy:810:THR:OG1	2.23	0.49
5:Yy:851:ASN:OD1	5:Yy:851:ASN:N	2.36	0.49
5:Yy:947:VAL:HA	6:aa:118:PRO:HB2	1.93	0.49
6:ZE:115:ASN:HA	6:ZE:121:ALA:HA	1.93	0.49
6:Zb:269:PHE:HE2	6:Zb:272:ILE:HD11	1.77	0.49
6:aD:210:VAL:HG11	6:aD:242:VAL:HG21	1.93	0.49
6:aa:72:TRP:CD1	6:aa:305:HIS:HD2	2.29	0.49
7:b0:40:GLN:H	7:b0:81:VAL:HG23	1.77	0.49
7:b0:451:ASP:OD2	7:b0:470:LEU:HB3	2.12	0.49
7:b6:108:SER:O	7:b6:177:GLY:HA2	2.12	0.49
7:b6:110:TYR:CE1	7:b6:171:ILE:HD12	2.47	0.49
7:b6:281:ILE:HG13	7:b6:295:LEU:HD12	1.94	0.49
7:b8:19:VAL:HG21	7:cF:655:THR:HB	1.92	0.49
7:bO:33:PHE:HA	7:bO:61:THR:HG23	1.94	0.49
7:bP:514:ARG:HH22	7:dU:366:GLU:CD	2.19	0.49
7:bR:332:GLU:OE1	7:bR:332:GLU:N	2.43	0.49
7:bY:612:ASN:HB3	7:bY:624:VAL:HG23	1.93	0.49
7:cB:264:THR:O	7:cB:266:LYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:264:THR:O	7:cH:266:LYS:N	2.44	0.49
7:cH:383:LEU:HD11	7:cH:436:TYR:CE1	2.47	0.49
7:cI:430:ARG:HG3	7:cI:522:ILE:HD11	1.93	0.49
7:cJ:228:GLY:HA2	7:cJ:345:SER:HB3	1.94	0.49
7:cK:273:PRO:HB3	7:cK:278:GLN:HB2	1.93	0.49
7:cK:494:TYR:HE2	7:cK:528:THR:HG21	1.77	0.49
7:dU:457:GLN:HG2	7:dU:458:TYR:H	1.77	0.49
7:dW:459:ASP:OD2	7:dW:462:ASN:ND2	2.23	0.49
8:eU:257:ILE:HG22	8:eU:258:GLY:H	1.77	0.49
8:eU:318:ASP:OD1	8:eU:318:ASP:N	2.45	0.49
8:fB:524:VAL:HA	8:fB:530:LEU:H	1.77	0.49
9:gE:236:ILE:HG23	9:gE:240:GLU:HB2	1.93	0.49
9:gG:154:THR:O	9:gG:182:ARG:NH2	2.45	0.49
11:hk:64:ARG:NH2	11:hl:89:GLN:HG2	2.26	0.49
11:hv:41:LEU:HG	11:hv:127:ILE:HD13	1.93	0.49
11:hx:56:ARG:HG3	11:hz:99:ILE:HG12	1.93	0.49
12:iD:328:ASP:OD1	12:iD:329:SER:N	2.45	0.49
14:k8:55:ARG:NH2	14:k8:82:PRO:O	2.44	0.49
15:m2:81:VAL:HG11	15:m2:91:LEU:HD13	1.94	0.49
16:o0:91:ILE:O	16:o0:96:ARG:HB2	2.12	0.49
16:pB:213:PRO:HD2	16:pB:340:SER:O	2.12	0.49
1:S0:282:ALA:HA	1:S5:280:ALA:HA	1.94	0.49
1:S0:478:ASP:N	1:S0:478:ASP:OD1	2.44	0.49
1:S5:126:ASN:OD1	1:S7:132:ARG:NH1	2.42	0.49
1:S5:433:TYR:CE2	1:S5:436:GLU:HB2	2.47	0.49
1:S7:99:ARG:HG2	1:S7:100:TYR:H	1.77	0.49
1:S8:151:LEU:HB2	1:S8:168:LEU:HD13	1.93	0.49
1:SA:210:ILE:HG23	1:Sw:210:ILE:HG23	1.93	0.49
1:Sv:257:THR:O	1:Sz:273:SER:OG	2.31	0.49
1:Sv:469:VAL:HG11	1:Sx:482:TYR:CE2	2.47	0.49
2:T7:275:ALA:O	2:T9:282:GLN:NE2	2.45	0.49
2:Td:176:GLU:HG3	2:Td:277:LYS:HG3	1.94	0.49
2:Tg:14:GLU:O	2:Tg:16:GLY:N	2.45	0.49
3:Up:56:ILE:HD11	3:Ut:52:ILE:HG23	1.94	0.49
3:Ut:90:PHE:O	3:Ut:154:SER:HB2	2.11	0.49
3:VM:102:GLY:N	3:VM:118:THR:OG1	2.45	0.49
3:Vp:3:LEU:HA	3:Vp:6:ASN:HB2	1.94	0.49
4:WI:532:LEU:HD11	4:WJ:533:PRO:HD2	1.94	0.49
4:WJ:72:THR:HG22	4:WJ:77:VAL:HG22	1.94	0.49
4:WJ:151:ILE:HD12	4:WJ:152:ASP:H	1.77	0.49
4:Wj:284:ASP:HB2	4:Wj:287:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wn:180:VAL:HG13	4:Wn:181:PHE:N	2.27	0.49
4:Wo:231:ARG:HG2	4:Wo:232:LEU:H	1.77	0.49
4:XK:79:ILE:HG13	4:XK:109:LEU:HA	1.94	0.49
4:Xl:12:ASP:C	5:Yx:986:ARG:HH21	2.19	0.49
4:Xm:12:ASP:OD2	5:Yy:984:SER:OG	2.16	0.49
4:Xm:195:HIS:C	4:Xm:197:GLY:H	2.20	0.49
4:Xn:2:LYS:O	4:Xn:29:ASN:ND2	2.45	0.49
4:Xo:9:ASN:OD1	4:Xo:10:VAL:N	2.45	0.49
5:YX:174:HIS:N	5:YX:508:TYR:OH	2.45	0.49
5:YX:326:VAL:O	5:YX:355:MET:HB2	2.12	0.49
5:YY:120:ASN:HB2	5:YY:155:PRO:O	2.12	0.49
5:YY:443:LEU:HG	5:YY:490:PHE:HB2	1.94	0.49
5:YY:449:LYS:HD2	6:aZ:74:HIS:NE2	2.27	0.49
5:Yc:300:LEU:HD13	5:Yc:329:ILE:HD11	1.94	0.49
5:Yc:438:GLY:O	5:Yc:439:LYS:HG2	2.12	0.49
5:Yx:753:ASN:ND2	8:fU:255:ASN:OD1	2.45	0.49
5:Yx:929:TYR:CD2	5:Yx:961:VAL:HB	2.47	0.49
6:aD:115:ASN:HA	6:aD:121:ALA:HA	1.94	0.49
6:ac:189:GLU:OE2	6:ac:241:ARG:NH2	2.45	0.49
7:b0:11:LYS:HG2	7:b0:13:THR:HG23	1.93	0.49
7:b0:455:LYS:HB2	7:b0:470:LEU:HD13	1.93	0.49
7:b3:228:GLY:HA2	7:b3:345:SER:HB3	1.93	0.49
7:b4:118:VAL:HB	7:b4:126:GLU:HB3	1.94	0.49
7:b5:440:ASN:ND2	7:b5:442:ASN:HB2	2.28	0.49
7:b6:375:ALA:HB1	7:b6:390:GLN:HG2	1.94	0.49
7:b8:427:VAL:O	7:b8:431:THR:OG1	2.27	0.49
7:bN:120:TYR:HE2	7:bN:157:VAL:HG11	1.78	0.49
7:bQ:57:PRO:HB2	7:bQ:62:ALA:HA	1.93	0.49
7:bQ:107:GLY:O	7:bQ:139:LYS:HG2	2.12	0.49
7:bR:2:THR:OG1	7:bR:3:LEU:N	2.25	0.49
7:cE:66:MET:SD	7:cE:459:ASP:HB2	2.52	0.49
7:cE:470:LEU:HD11	7:cE:499:ILE:HG21	1.93	0.49
7:cH:296:SER:OG	7:cH:297:THR:N	2.44	0.49
7:cJ:485:SER:OG	7:cJ:486:GLN:N	2.44	0.49
7:cO:394:VAL:HG11	7:cO:443:ILE:HD12	1.94	0.49
7:cO:605:ARG:HH11	7:cO:605:ARG:HB3	1.77	0.49
7:dS:107:GLY:HA3	7:dS:110:TYR:HE2	1.76	0.49
7:dV:369:ASP:OD1	7:dV:369:ASP:N	2.46	0.49
8:eU:72:ASN:ND2	14:k7:28:ILE:O	2.43	0.49
8:eU:135:ALA:C	8:eU:137:ASP:H	2.20	0.49
8:f9:86:ARG:NH2	8:f9:320:GLU:O	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fB:392:ILE:HD13	8:fB:408:ILE:HG12	1.94	0.49
8:fr:10:LEU:HD22	8:fr:12:ARG:HD3	1.94	0.49
11:h1:38:ALA:HB3	11:h1:72:THR:HG23	1.94	0.49
11:he:67:ASP:OD1	11:he:67:ASP:N	2.44	0.49
11:hk:17:ARG:HG3	11:hk:20:LEU:HD12	1.94	0.49
11:hv:46:VAL:HG22	11:hv:64:ARG:HB3	1.93	0.49
12:iD:100:LYS:HE3	16:pB:194:ARG:O	2.13	0.49
12:iF:100:LYS:HE3	16:pA:194:ARG:O	2.12	0.49
16:pB:294:MET:HG3	16:pB:312:GLY:HA3	1.93	0.49
17:q5:211:HIS:CD2	17:q5:212:THR:HG22	2.46	0.49
1:S0:143:LYS:HG2	1:S5:139:ASN:HB3	1.92	0.49
1:S0:357:ASP:OD1	1:S5:339:ARG:NH1	2.33	0.49
1:S2:68:ASP:OD1	1:SQ:386:ASN:ND2	2.46	0.49
1:S2:217:ASN:HB2	3:Vq:140:PHE:HZ	1.78	0.49
1:S2:482:TYR:CD2	1:S3:452:GLY:HA2	2.47	0.49
1:S6:405:ARG:HD2	1:S6:430:THR:HB	1.94	0.49
1:S8:462:ASN:N	1:S8:462:ASN:HD22	2.10	0.49
1:SA:181:THR:O	1:SA:190:VAL:HG22	2.13	0.49
1:SA:471:THR:HG21	1:Sy:471:THR:HG21	1.95	0.49
1:SP:106:ALA:HB2	1:SP:120:LYS:HD2	1.94	0.49
1:SQ:66:VAL:HG11	1:SQ:80:THR:HB	1.94	0.49
1:SQ:181:THR:O	1:SQ:190:VAL:HG22	2.13	0.49
1:Sv:193:LEU:HD11	1:Sx:207:GLY:HA2	1.94	0.49
2:T9:128:ASP:OD2	2:T9:158:SER:HB3	2.12	0.49
2:Ti:193:HIS:HB3	2:Ti:196:GLU:HG3	1.94	0.49
3:UL:126:VAL:HG13	3:UL:156:LEU:HD11	1.94	0.49
3:Ur:195:LEU:HA	3:Ur:215:PHE:HD1	1.76	0.49
3:VL:10:VAL:HG21	3:VM:10:VAL:HG21	1.93	0.49
3:VL:73:ASN:HD21	3:VL:76:GLY:H	1.60	0.49
4:WK:329:PHE:HB3	4:WK:332:VAL:HB	1.94	0.49
4:Wk:263:ILE:HG22	4:Wk:381:ILE:HB	1.94	0.49
4:Wl:210:SER:O	4:Wl:233:ARG:NH2	2.45	0.49
4:Wl:222:LEU:HG	4:Wl:224:PRO:HD2	1.94	0.49
4:Wl:425:PHE:HD2	4:Wl:601:ILE:HD12	1.78	0.49
4:Wm:67:SER:N	4:Wo:45:SER:OG	2.36	0.49
4:Wm:251:VAL:O	4:Wo:161:ASN:ND2	2.38	0.49
4:Wo:293:PHE:HB2	4:Wo:296:PHE:CG	2.47	0.49
4:XJ:103:ASN:O	4:XJ:105:ASN:N	2.45	0.49
4:Xj:372:ASP:OD1	4:Xj:372:ASP:N	2.45	0.49
4:Xm:102:TRP:CZ3	4:Xm:131:SER:HB2	2.48	0.49
4:Xo:450:PHE:HZ	4:Xo:478:TRP:HZ2	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YC:649:ILE:HD11	5:YC:668:CYS:HB3	1.94	0.49
5:YY:899:PHE:CE2	6:Zc:331:LEU:HD12	2.47	0.49
5:Yc:355:MET:HE2	5:Yc:355:MET:HA	1.92	0.49
5:Yc:560:TYR:HB2	5:Yc:567:THR:HG23	1.94	0.49
5:Yy:304:VAL:HG22	5:Yy:327:ARG:HH21	1.78	0.49
5:Yy:405:VAL:O	5:Yy:411:LYS:NZ	2.43	0.49
5:Yy:648:LEU:O	5:Yy:651:THR:HG22	2.12	0.49
5:Yy:793:CYS:HB3	5:Yy:813:ILE:HG23	1.93	0.49
6:ZZ:44:SER:O	6:ZZ:270:ARG:NH1	2.45	0.49
6:Za:40:THR:OG1	6:Za:273:SER:OG	2.30	0.49
6:Zb:37:ILE:HD13	6:Zb:249:PHE:CE2	2.47	0.49
6:aE:43:ARG:HD2	6:aE:74:HIS:ND1	2.27	0.49
6:aE:269:PHE:HE2	6:aE:272:ILE:HD11	1.77	0.49
7:b0:453:ASN:HB3	7:b0:507:ILE:HG12	1.94	0.49
7:b5:110:TYR:H	7:b5:138:GLY:CA	2.22	0.49
7:b6:118:VAL:HB	7:b6:126:GLU:HB3	1.94	0.49
7:b7:116:ILE:HD12	7:b7:171:ILE:HG12	1.95	0.49
7:b7:538:ASP:OD1	7:b7:538:ASP:N	2.42	0.49
7:bY:225:LEU:HD12	7:bY:324:PHE:HB2	1.93	0.49
7:cF:365:ARG:HA	7:cF:400:ARG:NH2	2.27	0.49
7:cG:47:GLU:OE1	7:cG:461:TYR:OH	2.22	0.49
7:cI:486:GLN:NE2	11:hy:11:GLU:OE1	2.46	0.49
7:cL:239:VAL:HG22	7:cL:280:ALA:HB3	1.94	0.49
7:cP:134:VAL:HG12	7:cP:140:ILE:HA	1.94	0.49
8:eB:461:LYS:O	8:eB:465:LEU:HG	2.11	0.49
8:eB:522:LYS:HE3	8:eB:530:LEU:HD22	1.94	0.49
8:eU:134:TYR:CZ	8:eU:142:PRO:HG3	2.47	0.49
8:fA:38:ASN:OD1	8:fA:39:GLY:N	2.44	0.49
8:fA:508:ARG:HH12	8:fA:576:ASP:C	2.19	0.49
8:fA:557:PRO:HB3	8:fA:589:TYR:CZ	2.46	0.49
8:fR:177:ILE:HD13	8:fR:185:ILE:HG23	1.94	0.49
9:gE:490:VAL:HG12	9:gE:492:GLY:H	1.76	0.49
9:gG:432:ARG:NH2	9:gH:432:ARG:HD2	2.27	0.49
11:hI:41:LEU:HD13	11:hJ:142:LEU:HD22	1.94	0.49
11:hi:136:ASN:O	11:hi:136:ASN:ND2	2.45	0.49
11:hm:56:ARG:NH2	11:hu:96:GLY:O	2.45	0.49
11:ho:42:PRO:HD2	11:ho:127:ILE:HD11	1.94	0.49
14:k3:59:LEU:HG	14:k3:63:ILE:HD13	1.93	0.49
14:k3:129:ASN:OD1	14:k3:129:ASN:N	2.44	0.49
14:k8:50:ILE:HD12	14:k8:87:ILE:HG13	1.94	0.49
16:o0:257:THR:C	16:o0:259:ILE:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o2:38:PHE:HB3	16:o2:39:PRO:HD3	1.94	0.49
16:pA:38:PHE:HB3	16:pA:39:PRO:HD3	1.93	0.49
16:pB:40:THR:HG21	16:pB:217:GLU:HB3	1.94	0.49
16:pB:59:LYS:HZ1	16:pB:301:THR:HG21	1.77	0.49
16:pB:214:ARG:O	16:pB:215:SER:OG	2.25	0.49
17:q7:186:THR:C	17:q7:188:LEU:H	2.21	0.49
17:q9:199:ILE:HG12	17:q9:218:MET:HE1	1.93	0.49
1:S0:401:ARG:NH2	1:S7:397:GLY:O	2.43	0.49
1:S1:260:ARG:HG3	1:S3:264:LYS:HG3	1.94	0.49
1:S1:442:MET:HE3	1:S3:507:LEU:HD11	1.93	0.49
1:S2:89:ASN:OD1	1:S2:90:ALA:N	2.44	0.49
1:S2:173:ILE:HG23	1:S3:173:ILE:HG12	1.94	0.49
1:S4:58:LEU:HD23	1:S4:75:ALA:HB2	1.94	0.49
1:S5:57:ILE:HG22	1:S7:55:LYS:HB3	1.94	0.49
1:SP:142:ILE:HG21	1:SP:158:THR:HA	1.94	0.49
1:Sv:289:GLN:HA	1:Sx:287:VAL:HA	1.93	0.49
1:Sw:308:ILE:HB	1:Sy:315:ILE:HG23	1.95	0.49
2:T2:50:VAL:HG12	2:T2:51:ALA:H	1.77	0.49
2:T4:194:ARG:NH1	2:T4:228:SER:OG	2.45	0.49
2:T4:247:ASP:CG	2:T4:251:ASN:HD21	2.20	0.49
2:T5:10:ILE:HD11	2:T5:31:ILE:HD11	1.95	0.49
2:T7:102:GLU:HA	2:T7:153:SER:HB3	1.94	0.49
2:Te:61:ILE:HG13	2:Tg:38:ILE:HG12	1.95	0.49
2:Te:67:TYR:CD2	2:Te:84:ARG:HB3	2.47	0.49
3:UM:32:ARG:NH1	3:UN:144:ASN:OD1	2.44	0.49
3:Vp:55:ALA:O	3:Vp:59:VAL:HG23	2.12	0.49
3:Vs:80:GLU:O	3:Vs:187:LYS:NZ	2.35	0.49
4:Wl:213:GLY:HA3	4:Wl:231:ARG:HB3	1.94	0.49
4:Wl:284:ASP:HB2	4:Wl:287:THR:HB	1.93	0.49
4:Wl:19:LEU:HA	5:YX:921:TRP:HE1	1.77	0.49
4:Wl:334:ALA:HB1	4:Wl:337:ASP:HA	1.94	0.49
4:Wm:558:ASP:O	4:Wm:560:ASP:N	2.39	0.49
4:XI:23:GLY:C	4:XI:25:LYS:H	2.20	0.49
4:XJ:151:ILE:HD12	4:XJ:152:ASP:H	1.77	0.49
4:XJ:319:GLU:HB2	4:XK:262:GLN:HE22	1.77	0.49
4:XJ:342:CYS:HB3	4:XJ:349:TRP:CH2	2.47	0.49
4:XK:217:GLU:HB2	4:XK:222:LEU:HB2	1.95	0.49
4:XK:305:ASN:ND2	4:XK:308:SER:HB3	2.27	0.49
4:Xj:214:SER:O	4:Xj:231:ARG:HB3	2.12	0.49
4:Xj:259:THR:OG1	4:Xj:387:ASN:OD1	2.28	0.49
4:Xj:326:MET:HE3	4:Xl:279:SER:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xj:486:VAL:HG12	4:Xl:488:VAL:HG22	1.93	0.49
4:Xk:116:THR:HG22	4:Xk:121:ALA:HB2	1.93	0.49
4:Xl:410:GLN:HG3	4:Xn:408:VAL:H	1.78	0.49
4:Xm:214:SER:OG	4:Xm:222:LEU:O	2.31	0.49
5:YC:42:LYS:HG2	5:YC:48:ASN:N	2.25	0.49
5:YC:237:VAL:O	5:YC:238:TYR:HB3	2.13	0.49
5:YX:309:GLU:HA	5:YX:391:ARG:HH21	1.78	0.49
5:Yc:420:THR:OG1	5:Yc:421:GLU:N	2.43	0.49
5:Yc:703:TYR:HA	5:Yc:706:SER:HB3	1.94	0.49
5:Yx:521:ASN:OD1	5:Yx:521:ASN:N	2.44	0.49
5:Yx:769:ASP:HB2	5:Yx:845:LYS:HE3	1.95	0.49
5:Yx:914:ASN:OD1	5:Yx:1011:ARG:NE	2.45	0.49
6:ZD:9:ARG:HD2	6:ZE:60:TYR:CE2	2.47	0.49
6:ZZ:286:ASN:OD1	6:ZZ:286:ASN:N	2.45	0.49
6:aa:20:LYS:HB3	6:ac:20:LYS:NZ	2.27	0.49
7:b4:470:LEU:HD11	7:b4:499:ILE:HG21	1.93	0.49
7:b5:57:PRO:HB3	7:b5:62:ALA:HA	1.94	0.49
7:b7:91:ASN:OD1	7:b7:91:ASN:N	2.45	0.49
7:b7:575:LEU:HB3	7:b7:577:ASN:HD22	1.77	0.49
7:b8:256:PRO:HG2	7:b8:339:THR:H	1.78	0.49
7:bQ:383:LEU:HD22	7:bQ:439:ASN:HB2	1.94	0.49
7:cB:596:LYS:NZ	7:cB:602:TYR:O	2.43	0.49
7:cE:33:PHE:HA	7:cE:61:THR:HG23	1.94	0.49
7:cF:131:ILE:HD11	7:cF:171:ILE:HD13	1.94	0.49
7:cG:26:THR:HA	7:cG:77:ASP:O	2.13	0.49
7:cG:221:GLY:O	7:cG:325:ALA:HA	2.12	0.49
7:cI:131:ILE:HA	7:cI:143:ILE:HG22	1.94	0.49
7:cM:515:ASP:OD1	7:cN:5:SER:N	2.46	0.49
7:cO:57:PRO:HG3	7:cO:65:PHE:CD1	2.47	0.49
7:cO:269:PHE:HE1	7:cO:282:ILE:HG12	1.77	0.49
7:cP:100:GLU:OE2	7:cP:186:LYS:NZ	2.34	0.49
8:eU:642:PHE:CE1	8:eU:651:LEU:HD13	2.48	0.49
8:fR:544:ASP:HB2	8:fR:576:ASP:CG	2.37	0.49
8:fW:220:THR:HG22	8:fW:241:GLY:O	2.12	0.49
8:fs:388:GLN:O	8:fs:392:ILE:HG22	2.12	0.49
9:gG:326:ARG:O	9:gG:330:ILE:HG12	2.11	0.49
11:hI:140:LEU:HD13	11:hI:153:PHE:HB3	1.94	0.49
11:hM:60:VAL:HG23	11:hX:104:PRO:HG3	1.94	0.49
11:he:22:GLN:OE1	11:he:114:ARG:NH2	2.45	0.49
11:hv:94:GLY:HA3	11:hv:100:THR:HG23	1.95	0.49
11:hw:17:ARG:HG3	11:hw:20:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:m5:116:PRO:HG2	16:o0:110:LEU:HD22	1.94	0.49
1:S1:39:ILE:HD12	1:S2:39:ILE:HG21	1.94	0.49
1:S2:161:THR:O	1:S2:165:THR:OG1	2.14	0.49
1:S2:357:ASP:OD1	1:S3:339:ARG:NH2	2.38	0.49
1:S4:193:LEU:HD11	1:S6:207:GLY:HA2	1.94	0.49
1:SP:471:THR:HG21	1:SQ:471:THR:HG21	1.94	0.49
1:Sx:283:TRP:NE1	1:Sz:272:GLN:HE21	2.10	0.49
1:Sx:320:ARG:HG2	1:Sz:325:TYR:HB2	1.95	0.49
1:Sy:486:ASP:OD1	1:Sy:486:ASP:N	2.27	0.49
2:T2:44:ASP:HB3	2:T2:47:LYS:HG3	1.94	0.49
2:T8:67:TYR:CD2	2:T8:84:ARG:HB3	2.48	0.49
2:Te:70:HIS:ND1	2:Te:74:GLU:OE1	2.43	0.49
2:Th:85:HIS:HB2	2:Th:109:PHE:CD1	2.48	0.49
3:Uq:62:PHE:CD1	3:Us:190:TYR:HB3	2.47	0.49
3:VM:163:ASN:OD1	3:VM:163:ASN:N	2.44	0.49
3:Vq:90:PHE:HE1	3:Vq:178:ILE:HG23	1.76	0.49
3:Vt:130:ARG:NE	3:Vt:148:ASP:OD2	2.46	0.49
4:WI:89:TYR:CZ	4:WI:139:ALA:HA	2.47	0.49
4:WI:454:TYR:O	4:WI:600:ARG:NH1	2.41	0.49
4:WK:113:SER:OG	4:WK:114:GLY:N	2.45	0.49
4:Wk:180:VAL:HG13	4:Wk:181:PHE:H	1.78	0.49
4:Wl:258:TYR:HE1	4:Wl:384:THR:HG23	1.78	0.49
4:Wn:556:GLN:HG2	5:YX:206:GLN:HA	1.93	0.49
4:Wo:496:ASP:HB3	4:Wo:500:ALA:HB2	1.95	0.49
4:XI:195:HIS:O	4:XI:196:ARG:HB2	2.11	0.49
4:Xj:388:ASN:O	4:Xj:388:ASN:ND2	2.46	0.49
5:YC:712:ASN:ND2	5:YC:720:ARG:HG3	2.26	0.49
5:YX:300:LEU:HD22	5:YX:329:ILE:HG12	1.95	0.49
5:YX:653:MET:HG3	5:YX:654:PRO:HD2	1.94	0.49
5:YY:59:LEU:HD13	5:YY:67:PHE:CE2	2.47	0.49
5:YY:104:ALA:C	5:YY:105:THR:HG1	2.20	0.49
5:YY:304:VAL:HG13	5:YY:327:ARG:HH21	1.77	0.49
5:Yc:935:LYS:HD2	5:Yc:954:GLU:HG2	1.95	0.49
5:Yx:378:LEU:HA	5:Yx:403:ILE:HA	1.93	0.49
5:Yy:61:TYR:HE2	6:aa:156:LEU:HD21	1.77	0.49
7:b5:91:ASN:ND2	7:b5:195:LEU:HG	2.28	0.49
7:b9:29:LEU:O	7:b9:80:VAL:HA	2.13	0.49
7:b9:365:ARG:HA	7:b9:400:ARG:NH2	2.27	0.49
7:bO:114:ASP:HB2	7:bO:131:ILE:HG13	1.95	0.49
7:bQ:313:ASP:HB3	7:cO:464:VAL:HG12	1.94	0.49
7:bY:147:THR:O	7:bY:147:THR:OG1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cA:278:GLN:HG2	7:cA:296:SER:HB2	1.93	0.49
7:cC:151:ILE:O	7:cC:155:LYS:HG2	2.12	0.49
7:cD:240:SER:OG	7:cD:243:ASP:OD1	2.30	0.49
7:cF:485:SER:OG	7:cF:486:GLN:N	2.43	0.49
7:cG:235:GLU:OE2	7:cG:261:ARG:NH2	2.42	0.49
7:cM:614:THR:C	7:cM:616:SER:H	2.20	0.49
7:cN:655:THR:HB	7:cO:19:VAL:HG21	1.94	0.49
7:dU:378:CYS:HB2	7:dU:410:PRO:HA	1.93	0.49
7:dW:571:ARG:HH21	7:dW:587:GLU:CD	2.19	0.49
8:eW:56:LEU:O	8:eW:60:LEU:HG	2.13	0.49
8:eW:76:TYR:OH	14:k8:29:PHE:O	2.23	0.49
8:fS:550:ILE:HG13	8:fS:596:ASN:HB3	1.93	0.49
8:fW:104:SER:OG	8:fW:316:GLY:O	2.28	0.49
8:fs:76:TYR:O	8:fs:82:THR:OG1	2.30	0.49
9:gE:462:GLU:OE1	9:gH:466:ASN:ND2	2.37	0.49
11:hp:63:ASP:HB3	11:hz:147:ASN:HB3	1.94	0.49
12:iD:363:LYS:HD3	16:o6:84:TYR:CE1	2.48	0.49
14:k7:59:LEU:HG	14:k7:63:ILE:HD13	1.95	0.49
15:m6:126:LEU:HG	15:m6:127:ALA:H	1.77	0.49
16:o1:314:CYS:HA	16:o1:350:GLU:HA	1.93	0.49
17:q4:215:MET:HE1	17:q9:99:SER:HA	1.94	0.49
1:S1:36:ILE:O	1:S1:40:SER:OG	2.27	0.49
1:S2:287:VAL:O	1:S2:294:GLN:NE2	2.45	0.49
1:S4:260:ARG:HD3	1:S8:262:VAL:HG23	1.94	0.49
1:S5:497:ASN:H	1:S5:500:TYR:HB2	1.76	0.49
1:S6:77:THR:HG23	1:S6:80:THR:H	1.77	0.49
1:S6:99:ARG:HG2	1:S6:100:TYR:H	1.78	0.49
1:S7:150:ALA:HB3	1:S7:168:LEU:HD13	1.93	0.49
1:SA:127:ASN:O	1:SA:131:THR:HG23	2.12	0.49
1:SA:360:ARG:HH11	1:SA:525:VAL:HG21	1.76	0.49
1:SO:242:SER:HA	1:SQ:230:LEU:HD21	1.94	0.49
1:SO:340:THR:HG22	1:SO:341:ILE:HG12	1.95	0.49
1:SP:291:ARG:NH2	1:SQ:269:ALA:O	2.28	0.49
1:Sv:47:VAL:H	1:Sv:48:PRO:CD	2.26	0.49
1:Sv:57:ILE:HG22	1:Sx:55:LYS:HB3	1.94	0.49
1:Sz:371:ASP:OD1	1:Sz:526:LYS:NZ	2.45	0.49
2:T4:284:ILE:HG12	2:T8:275:ALA:HB2	1.95	0.49
2:Td:102:GLU:N	2:Td:105:ASP:OD2	2.42	0.49
3:Uu:90:PHE:HE1	3:Uu:178:ILE:HG23	1.77	0.49
3:Vq:62:PHE:CD1	3:Vs:190:TYR:HB3	2.47	0.49
3:Vr:195:LEU:HA	3:Vr:215:PHE:HD1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vs:41:SER:HA	3:Vu:168:LEU:HD11	1.94	0.49
4:Wl:527:LEU:HD11	4:WJ:527:LEU:HD22	1.94	0.49
4:Wl:535:THR:HG21	4:WK:532:LEU:HD12	1.94	0.49
4:Wl:552:VAL:HG11	4:WK:569:TYR:CE2	2.47	0.49
4:WJ:111:ALA:HB2	4:WJ:117:ILE:HG23	1.94	0.49
4:Wj:104:VAL:HG13	4:Wj:105:ASN:H	1.78	0.49
4:Wj:594:THR:OG1	4:Wl:517:GLY:N	2.46	0.49
4:Wk:172:GLN:HG3	4:Wk:237:ASN:HA	1.94	0.49
4:Wk:480:LEU:HD13	4:Wk:483:GLN:HE21	1.76	0.49
4:Wn:480:LEU:HB3	4:Wn:483:GLN:HE21	1.78	0.49
4:Xl:253:GLN:HA	4:Xl:390:LEU:HD22	1.94	0.49
4:Xk:594:THR:OG1	4:Xm:517:GLY:N	2.45	0.49
4:Xl:260:ARG:O	4:Xl:261:ARG:NH1	2.46	0.49
4:Xl:490:TRP:NE1	4:Xl:500:ALA:O	2.44	0.49
5:YC:103:PHE:N	5:YC:103:PHE:CD1	2.79	0.49
5:YC:180:ILE:HG13	5:YC:219:TRP:HH2	1.77	0.49
5:YC:490:PHE:HE1	5:YC:503:PRO:HG3	1.77	0.49
5:YY:867:LYS:HG2	5:YY:893:ILE:HB	1.94	0.49
5:YY:923:SER:HB2	5:YY:986:ARG:CZ	2.43	0.49
5:Yc:929:TYR:CD2	5:Yc:961:VAL:HB	2.48	0.49
5:Yx:714:TYR:HE2	5:Yx:723:VAL:HG21	1.77	0.49
5:Yx:1012:LEU:HB2	5:Yx:1027:GLN:HB2	1.94	0.49
5:Yy:134:TYR:HD2	5:Yy:135:VAL:HG22	1.78	0.49
6:aZ:49:SER:OG	6:aZ:50:ASN:N	2.44	0.49
6:aZ:246:THR:HA	6:aZ:332:PHE:O	2.12	0.49
7:b8:453:ASN:HB2	7:b8:506:ALA:HB3	1.93	0.49
7:bN:400:ARG:HD3	7:bN:403:CYS:SG	2.52	0.49
7:bN:655:THR:HA	7:bO:16:GLN:HG3	1.93	0.49
7:bY:66:MET:HG2	7:bY:468:VAL:HG21	1.93	0.49
7:cA:94:PRO:HD3	7:cA:222:VAL:O	2.12	0.49
7:cB:135:ASP:OD1	7:cB:136:ALA:N	2.46	0.49
7:cI:417:ILE:H	7:cI:417:ILE:HD13	1.76	0.49
7:cK:538:ASP:OD1	7:cK:538:ASP:N	2.44	0.49
7:cM:455:LYS:HB2	7:cM:470:LEU:HD13	1.94	0.49
8:eW:595:ILE:HG22	8:eW:602:ILE:HA	1.93	0.49
8:f9:339:CYS:HB3	8:f9:348:PHE:CD2	2.43	0.49
8:fB:76:TYR:OH	14:IV:29:PHE:O	2.30	0.49
8:fR:335:THR:OG1	8:fR:338:ARG:O	2.30	0.49
8:fS:436:LEU:O	8:fS:440:ILE:HG23	2.12	0.49
11:h2:22:GLN:HB2	11:h2:116:TYR:HE1	1.76	0.49
11:h2:28:LEU:HD22	11:h2:84:LYS:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hj:48:LYS:HG3	11:hj:59:ASN:HB3	1.93	0.49
11:hx:23:VAL:HG11	11:hx:39:THR:HG21	1.94	0.49
12:iD:354:HIS:HE1	16:o2:192:THR:HG21	1.77	0.49
16:pB:137:ASP:OD1	16:pB:137:ASP:N	2.46	0.49
17:q3:205:SER:OG	17:q3:206:ARG:N	2.45	0.49
1:S0:296:ILE:HG22	1:S0:298:GLY:H	1.77	0.49
1:S1:176:ILE:HG12	1:S1:177:ALA:H	1.76	0.49
1:S3:177:ALA:HB3	1:S3:178:PRO:HD3	1.95	0.49
1:S5:340:THR:HG22	1:S5:341:ILE:HG12	1.95	0.49
1:S6:149:GLN:O	1:S6:153:GLY:HA2	2.12	0.49
1:S6:228:ILE:HD12	1:S6:244:ALA:HB2	1.95	0.49
1:S7:386:ASN:OD1	1:S7:389:ASN:N	2.41	0.49
1:S7:489:GLU:HA	1:S7:502:LEU:HD12	1.95	0.49
1:S8:286:ASP:OD1	1:S8:286:ASP:N	2.46	0.49
1:SA:448:ALA:N	1:Sw:485:ASN:OD1	2.44	0.49
1:SQ:415:ASN:O	1:SQ:424:ARG:NH1	2.46	0.49
1:Sv:47:VAL:H	1:Sv:48:PRO:HD3	1.78	0.49
1:Sz:66:VAL:O	1:Sz:84:ARG:NH2	2.46	0.49
2:T5:17:ASN:OD1	2:T5:18:ALA:N	2.45	0.49
2:Te:50:VAL:C	2:Te:52:ASN:H	2.20	0.49
3:Uu:149:HIS:HB3	3:Uu:152:ASP:O	2.13	0.49
3:VN:127:ALA:HA	3:VN:130:ARG:HH11	1.77	0.49
4:Wl:310:GLU:OE2	4:WJ:258:TYR:OH	2.26	0.49
4:WJ:253:GLN:N	4:WJ:253:GLN:OE1	2.45	0.49
4:WK:215:PRO:HG3	4:WK:226:ASP:HB2	1.94	0.49
4:WK:398:GLU:N	4:WK:398:GLU:OE1	2.45	0.49
4:Wj:276:LEU:HD13	4:Wj:280:ILE:HD12	1.95	0.49
4:Wk:89:TYR:CZ	4:Wk:139:ALA:HA	2.48	0.49
4:Wl:103:ASN:O	4:Wl:105:ASN:N	2.46	0.49
4:Wm:419:ASP:HB3	4:Wm:436:VAL:HB	1.95	0.49
4:XJ:290:SER:HA	4:XJ:371:PHE:N	2.27	0.49
4:Xm:594:THR:OG1	4:Xo:518:GLY:N	2.41	0.49
4:Xn:494:ILE:HA	4:Xn:500:ALA:HB1	1.95	0.49
4:Xn:559:PRO:HG3	5:Yx:228:ARG:HH22	1.78	0.49
5:YC:342:SER:HB2	5:YC:345:TYR:HB3	1.94	0.49
5:YX:92:SER:OG	5:YX:93:ASP:N	2.46	0.49
5:YX:816:LEU:O	6:Zb:201:ASN:ND2	2.45	0.49
5:YX:1025:PRO:O	5:YX:1026:THR:HG22	2.13	0.49
5:YY:327:ARG:HD2	5:YY:350:PHE:CE2	2.48	0.49
5:YY:1019:PRO:HG3	6:Za:93:ARG:HH11	1.78	0.49
5:Yx:600:PHE:O	5:Yx:602:TYR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:856:ASN:HA	8:fU:495:PRO:HB3	1.95	0.49
6:ZE:270:ARG:CZ	6:ZE:317:PRO:HB3	2.43	0.49
6:Zc:93:ARG:NH2	6:Zc:105:THR:O	2.46	0.49
6:aD:204:THR:HG21	6:aD:248:ARG:HH22	1.76	0.49
6:aD:216:LEU:HD23	6:aD:236:PHE:HB3	1.94	0.49
6:aE:115:ASN:N	6:aE:120:ASN:OD1	2.45	0.49
6:aZ:197:ASP:N	6:aZ:197:ASP:OD1	2.45	0.49
6:aZ:298:ASP:OD1	6:aZ:299:PRO:HD2	2.12	0.49
7:b0:114:ASP:HB2	7:b0:131:ILE:HG13	1.93	0.49
7:b0:199:GLU:CD	7:b0:200:ASN:HD22	2.20	0.49
7:b3:116:ILE:HD13	7:b3:171:ILE:HG12	1.95	0.49
7:b3:118:VAL:HB	7:b3:126:GLU:HB3	1.94	0.49
7:b4:410:PRO:O	7:b4:413:THR:HG22	2.12	0.49
7:bN:378:CYS:HB2	7:bN:410:PRO:HA	1.94	0.49
7:bO:514:ARG:HH22	7:dT:366:GLU:CD	2.21	0.49
7:bR:18:THR:HG23	7:bR:48:VAL:HG21	1.94	0.49
7:cA:462:ASN:HB2	7:cA:464:VAL:HG22	1.94	0.49
7:cE:16:GLN:OE1	7:cE:460:LYS:HD3	2.12	0.49
7:cH:406:LEU:HD13	7:cH:475:ALA:HB2	1.95	0.49
7:cN:441:PHE:CZ	7:cN:443:ILE:HD11	2.47	0.49
7:cO:406:LEU:HD13	7:cO:475:ALA:HB2	1.95	0.49
7:dS:112:VAL:HG13	7:dS:134:VAL:HG22	1.95	0.49
7:dT:114:ASP:OD1	7:dT:114:ASP:N	2.33	0.49
7:dU:112:VAL:HG13	7:dU:134:VAL:HG22	1.95	0.49
8:eB:120:ARG:O	8:eB:161:TYR:OH	2.27	0.49
8:eU:213:SER:HB2	8:eU:215:VAL:HG12	1.94	0.49
8:f9:264:GLN:HB3	8:fB:35:GLU:HG3	1.94	0.49
8:f9:596:ASN:OD1	8:f9:601:VAL:HG22	2.12	0.49
8:fA:411:PRO:HG2	8:fA:413:TYR:HE1	1.78	0.49
8:fW:46:TYR:HB3	8:fW:53:LEU:HD23	1.94	0.49
8:fs:130:ARG:NH1	12:iF:183:ASP:OD1	2.46	0.49
8:fs:389:ARG:HB2	8:fs:408:ILE:HB	1.94	0.49
9:gE:432:ARG:HD2	9:gH:432:ARG:NH2	2.27	0.49
9:gE:467:MET:HA	9:gH:475:ASP:HB2	1.95	0.49
9:gG:284:MET:HE1	9:gG:292:PHE:HE1	1.78	0.49
11:hI:88:TRP:CE2	11:hI:134:PRO:HD3	2.47	0.49
11:ho:131:GLY:O	11:ho:159:LEU:HA	2.12	0.49
11:hs:133:TRP:CZ3	11:hs:135:THR:HG22	2.47	0.49
12:iC:62:THR:HG23	12:iC:63:LYS:HG3	1.94	0.49
14:lV:1:MET:O	14:lV:4:THR:HG22	2.13	0.49
15:m2:14:GLU:O	15:m2:16:LYS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:pB:231:TYR:CD2	16:pB:250:LEU:HD21	2.48	0.49
17:q5:159:VAL:HG13	17:q5:242:THR:HG22	1.93	0.49
1:S0:199:VAL:HA	1:S7:212:PRO:HB3	1.95	0.49
1:S0:413:ASN:OD1	1:S0:414:VAL:N	2.46	0.49
1:S1:192:GLN:HG3	1:S2:188:GLN:HG3	1.95	0.49
1:S2:431:GLY:HA2	1:S2:438:GLN:HE22	1.78	0.49
1:S4:132:ARG:NH1	1:S8:126:ASN:OD1	2.45	0.49
1:S6:473:LYS:HB3	1:S8:473:LYS:HD2	1.94	0.49
1:SO:417:ASN:HA	1:SO:423:PRO:HA	1.94	0.49
1:Sy:367:VAL:HG11	1:Sy:525:VAL:HG11	1.93	0.49
2:T8:122:LEU:HB3	2:T8:139:VAL:HB	1.94	0.49
3:UL:4:LEU:HD22	4:WJ:356:TYR:HD2	1.77	0.49
3:Ur:70:ILE:HA	3:Ur:215:PHE:O	2.13	0.49
3:Ut:85:THR:HG22	3:Ut:183:ILE:HD12	1.95	0.49
3:VL:13:ARG:HG2	3:VL:14:LEU:H	1.78	0.49
3:VM:9:GLY:C	3:VN:13:ARG:HD2	2.38	0.49
3:Vp:73:ASN:OD1	3:Vp:75:THR:OG1	2.25	0.49
3:Vq:106:THR:HG21	4:Xk:269:LYS:HG3	1.94	0.49
3:Vr:108:LEU:O	3:Vr:171:TYR:OH	2.18	0.49
3:Vt:14:LEU:O	3:Vt:16:ASP:N	2.46	0.49
4:WK:176:ASP:HA	4:WK:231:ARG:HA	1.94	0.49
4:Wj:241:THR:HG21	4:Wn:200:LEU:HD11	1.93	0.49
4:Wm:214:SER:OG	4:Wm:222:LEU:O	2.31	0.49
4:XI:162:VAL:HA	4:XI:246:THR:O	2.13	0.49
4:Xj:138:CYS:SG	4:Xj:140:PRO:HD2	2.52	0.49
4:Xk:214:SER:OG	4:Xk:222:LEU:O	2.30	0.49
4:Xk:354:THR:HG23	4:Xk:359:GLU:HB2	1.94	0.49
4:Xm:49:TRP:HZ3	4:Xm:96:ARG:HD2	1.76	0.49
4:Xm:89:TYR:HA	4:Xm:137:TYR:HB3	1.94	0.49
4:Xo:135:LEU:HA	4:Xo:144:GLU:O	2.12	0.49
4:Xo:186:TYR:HD2	4:Xo:227:GLY:HA2	1.77	0.49
5:YC:159:ASP:HA	5:YC:593:GLU:HA	1.95	0.49
5:YC:443:LEU:HG	5:YC:490:PHE:HB2	1.94	0.49
5:YX:627:GLU:CD	5:YX:627:GLU:H	2.21	0.49
5:YY:69:PHE:CZ	5:YY:71:ASP:HB2	2.48	0.49
5:YY:450:PHE:CD1	5:YY:453:ASP:HB2	2.48	0.49
5:Yc:364:VAL:HG21	5:Yc:396:ILE:HG12	1.94	0.49
5:Yc:1009:ASN:OD1	5:Yc:1009:ASN:N	2.45	0.49
5:Yy:774:SER:HB2	5:Yy:836:GLY:HA2	1.94	0.49
5:Yy:926:PRO:HA	5:Yy:963:TYR:CD2	2.48	0.49
6:ZD:275:ILE:HG12	6:ZD:309:MET:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZZ:304:ARG:HG2	6:ZZ:305:HIS:CD2	2.46	0.49
6:aD:246:THR:HA	6:aD:332:PHE:O	2.13	0.49
7:b0:539:LYS:HG2	7:b0:550:ARG:HH21	1.77	0.49
7:b5:296:SER:O	7:b5:311:ILE:HG13	2.13	0.49
7:bN:406:LEU:HD13	7:bN:475:ALA:HB2	1.94	0.49
7:cD:107:GLY:HA3	7:cD:110:TYR:HE2	1.78	0.49
7:cG:202:GLU:OE1	7:cG:203:ALA:N	2.38	0.49
7:cI:454:TYR:HB3	7:cI:467:TRP:CD1	2.48	0.49
7:cO:450:ILE:HD13	7:cO:522:ILE:HG12	1.94	0.49
7:dU:8:ILE:HG21	15:mT:62:PHE:CZ	2.48	0.49
7:dU:379:ALA:HB2	7:dU:454:TYR:HE2	1.78	0.49
7:dW:105:THR:O	7:dW:180:ALA:HA	2.13	0.49
8:eU:596:ASN:OD1	8:eU:601:VAL:HG22	2.13	0.49
8:eW:462:SER:O	8:eW:466:THR:HG23	2.12	0.49
8:fB:112:LEU:HD12	8:fB:163:PRO:HD2	1.94	0.49
8:fS:10:LEU:HD21	8:fS:18:PRO:HG3	1.95	0.49
8:fS:206:TRP:CD1	8:fS:222:THR:HB	2.48	0.49
8:fW:52:ARG:HB2	15:m2:11:ILE:HG22	1.94	0.49
8:fs:200:TYR:HB2	8:fs:269:VAL:O	2.13	0.49
9:gH:490:VAL:HG12	9:gH:492:GLY:H	1.78	0.49
9:gH:514:VAL:HG12	9:gH:516:GLY:H	1.76	0.49
11:h1:58:ILE:HD11	11:hL:6:VAL:HG21	1.94	0.49
11:hq:64:ARG:NH1	11:hr:95:GLN:HG3	2.27	0.49
14:k7:34:ASP:N	14:k7:34:ASP:OD1	2.44	0.49
15:m6:57:LEU:HD11	15:m6:73:VAL:HG13	1.95	0.49
15:mT:96:ILE:HB	15:mT:105:ILE:HB	1.94	0.49
1:S0:106:ALA:HA	1:S7:118:PRO:HB3	1.95	0.49
1:S1:163:LEU:HB2	1:S2:153:GLY:O	2.12	0.49
1:S1:395:MET:HA	1:S1:398:LEU:HD12	1.94	0.49
1:SA:394:ASP:OD2	1:Sw:407:SER:N	2.45	0.49
1:SO:292:GLY:HA3	1:SP:298:GLY:HA3	1.94	0.49
1:Sw:145:SER:OG	1:Sw:159:ALA:O	2.25	0.49
1:Sw:193:LEU:HD11	1:Sy:207:GLY:HA2	1.95	0.49
1:Sy:35:ALA:O	1:Sy:39:ILE:HG13	2.13	0.49
2:TG:102:GLU:HA	2:TG:153:SER:HB3	1.95	0.49
2:Te:14:GLU:O	2:Te:16:GLY:N	2.46	0.49
3:Up:55:ALA:O	3:Up:59:VAL:HG23	2.12	0.49
3:Uu:29:VAL:HG22	3:Uu:62:PHE:HZ	1.78	0.49
3:Vr:16:ASP:HB3	3:Vr:42:GLN:HG3	1.94	0.49
4:WJ:397:ASP:OD1	4:WJ:398:GLU:N	2.46	0.49
4:WK:276:LEU:C	4:WK:277:GLU:HG3	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:195:HIS:NE2	4:Wk:236:CYS:SG	2.85	0.49
4:Wm:103:ASN:OD1	4:Wm:104:VAL:N	2.45	0.49
4:Wm:394:LEU:HB3	4:Wo:392:THR:HG22	1.95	0.49
4:Wn:63:GLU:HG2	4:Wn:66:LYS:HD3	1.94	0.49
4:XI:96:ARG:HH11	4:XI:151:ILE:HD11	1.76	0.49
4:Xj:13:ASP:OD1	4:Xj:14:GLY:N	2.44	0.49
4:Xk:99:PHE:HA	4:Xo:138:CYS:SG	2.53	0.49
4:Xk:422:LEU:HD21	4:Xo:464:VAL:HG21	1.95	0.49
4:Xm:201:TYR:HB3	4:Xo:166:GLU:HG2	1.95	0.49
5:YC:486:HIS:HB2	6:ZZ:305:HIS:CE1	2.48	0.49
5:YC:710:LYS:HG2	8:f9:14:ALA:HB1	1.95	0.49
5:YC:852:ILE:HG13	5:YC:853:ASP:N	2.28	0.49
5:YY:935:LYS:HD2	5:YY:954:GLU:HG3	1.95	0.49
5:Yc:122:PHE:CE1	5:Yc:135:VAL:HG21	2.47	0.49
5:Yc:442:SER:HA	5:Yc:490:PHE:O	2.12	0.49
6:Za:58:PRO:HB2	6:Za:314:ASN:HB3	1.94	0.49
6:Zc:140:GLY:HA3	6:Zc:162:PRO:HA	1.95	0.49
6:ac:51:GLU:HA	6:ac:56:PHE:CD2	2.48	0.49
7:b4:538:ASP:N	7:b4:538:ASP:OD1	2.46	0.49
7:b6:134:VAL:HG12	7:b6:140:ILE:HG22	1.95	0.49
7:b6:455:LYS:HD3	7:b6:502:VAL:HG22	1.95	0.49
7:b8:5:SER:OG	7:cF:511:GLN:NE2	2.46	0.49
7:b9:135:ASP:OD1	7:b9:136:ALA:N	2.46	0.49
7:bP:134:VAL:HG13	7:bP:138:GLY:HA2	1.94	0.49
7:cA:647:THR:O	7:cJ:630:GLN:NE2	2.45	0.49
7:cC:538:ASP:OD1	7:cC:538:ASP:N	2.44	0.49
7:cD:430:ARG:NH2	7:cD:443:ILE:O	2.46	0.49
7:cJ:135:ASP:HB3	7:cJ:139:LYS:HB2	1.94	0.49
7:cK:31:GLY:HA3	7:cK:64:TYR:CD2	2.48	0.49
7:cK:131:ILE:HG12	7:cK:143:ILE:HG22	1.94	0.49
7:cP:254:ILE:HD11	7:cP:261:ARG:HB2	1.95	0.49
7:dV:378:CYS:HB2	7:dV:410:PRO:HA	1.94	0.49
7:dW:591:TYR:O	7:dW:595:ILE:HG12	2.13	0.49
7:dZ:73:GLN:O	16:o2:255:ARG:NE	2.35	0.49
8:eW:485:VAL:HG22	8:eW:624:TYR:HD1	1.78	0.49
8:fA:53:LEU:HD22	15:nT:23:VAL:HG23	1.93	0.49
8:fR:186:ILE:HD13	8:fR:235:GLU:HB3	1.95	0.49
8:fs:327:GLU:O	8:fs:331:ILE:HG12	2.13	0.49
11:h1:3:VAL:HG12	11:hv:97:ASN:HA	1.94	0.49
11:hK:140:LEU:HD13	11:hK:153:PHE:HB3	1.95	0.49
11:hr:15:PHE:CE1	11:hs:74:MET:HE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iD:241:ASN:HD22	12:iF:92:HIS:HB3	1.78	0.49
14:IV:31:ASN:C	14:IV:33:LYS:H	2.21	0.49
16:o0:87:SER:O	16:o0:88:SER:HB3	2.13	0.49
16:o6:96:ARG:NE	16:o6:100:SER:OG	2.46	0.49
16:pA:340:SER:HB3	17:q9:189:ARG:HH11	1.77	0.49
1:S1:6:TYR:CD2	1:S1:7:GLN:HG2	2.48	0.49
1:S1:110:VAL:HG12	1:S1:111:ASN:H	1.77	0.49
1:S3:20:PRO:HD3	1:S3:29:ILE:HG21	1.93	0.49
1:S5:158:THR:OG1	1:S5:159:ALA:N	2.44	0.49
1:S7:6:TYR:HE1	4:Xm:233:ARG:HD2	1.78	0.49
1:SA:260:ARG:HH21	1:Sy:278:SER:HB2	1.78	0.49
1:Sv:417:ASN:O	1:Sv:424:ARG:NH1	2.46	0.49
1:Sx:6:TYR:CE1	4:Wl:233:ARG:HD2	2.48	0.49
1:Sx:334:GLN:HG3	1:Sx:337:ILE:HD12	1.95	0.49
1:Sy:472:ARG:HG3	1:Sy:473:LYS:HG3	1.95	0.49
2:T3:8:LYS:HD3	2:T3:30:LYS:HG2	1.94	0.49
2:T4:50:VAL:O	2:T4:52:ASN:N	2.46	0.49
2:T6:153:SER:HA	2:T6:158:SER:HA	1.95	0.49
2:T7:14:GLU:O	2:T7:16:GLY:N	2.46	0.49
2:TH:193:HIS:HB3	2:TH:196:GLU:HG3	1.94	0.49
2:Td:128:ASP:HB2	2:Td:158:SER:HB3	1.93	0.49
2:Te:50:VAL:HG12	2:Te:51:ALA:H	1.78	0.49
3:Ur:165:LYS:HB3	3:Ut:23:LYS:HE3	1.95	0.49
3:Vs:148:ASP:OD1	3:Vs:148:ASP:N	2.46	0.49
3:Vu:114:VAL:HG21	3:Vu:129:VAL:HG22	1.94	0.49
4:Wl:188:VAL:HG23	4:Wl:225:LEU:HD22	1.95	0.49
4:Wl:407:TYR:HE2	4:WJ:403:THR:HB	1.78	0.49
4:WK:110:VAL:HG22	4:WK:123:PRO:HB3	1.95	0.49
4:Wk:138:CYS:HB3	4:Wk:142:ARG:HB3	1.94	0.49
4:Wk:335:ASP:OD1	4:Wk:335:ASP:N	2.46	0.49
4:Wm:580:HIS:HB3	4:Wm:583:PRO:HB3	1.95	0.49
4:Wn:49:TRP:CD1	4:Wn:67:SER:HG	2.31	0.49
4:Wo:77:VAL:HG23	4:Wo:107:VAL:HG13	1.94	0.49
4:Xl:399:ILE:HD12	4:XK:399:ILE:HG21	1.95	0.49
5:YC:300:LEU:HB2	5:YC:350:PHE:CE1	2.48	0.49
5:YC:380:ILE:HD13	5:YC:429:PRO:HA	1.95	0.49
5:YC:733:ASP:OD1	5:YC:733:ASP:N	2.46	0.49
5:YX:240:GLN:HB3	5:YX:245:THR:HG23	1.94	0.49
5:YY:916:TYR:HB3	5:YY:1004:PHE:HB3	1.94	0.49
5:Yx:770:ILE:HG22	5:Yx:842:VAL:H	1.77	0.49
5:Yy:521:ASN:OD1	5:Yy:521:ASN:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ac:28:ILE:HG22	6:ac:83:PRO:HG3	1.94	0.49
7:b0:108:SER:O	7:b0:177:GLY:HA2	2.13	0.49
7:b0:400:ARG:NH1	7:b0:402:ASP:OD1	2.46	0.49
7:b7:148:ALA:O	7:b7:151:ILE:HG13	2.13	0.49
7:b9:462:ASN:HB2	7:b9:464:VAL:HG22	1.94	0.49
7:bQ:120:TYR:HE2	7:bQ:157:VAL:HG11	1.77	0.49
7:bQ:368:VAL:O	7:bQ:400:ARG:NH2	2.46	0.49
7:cA:116:ILE:HD12	7:cA:171:ILE:HD13	1.95	0.49
7:cE:70:ASN:OD1	7:cE:457:GLN:NE2	2.43	0.49
7:cF:228:GLY:HA2	7:cF:345:SER:HB3	1.95	0.49
7:cF:467:TRP:HZ3	7:cG:199:GLU:HB2	1.77	0.49
7:cF:488:TRP:HB3	7:cF:556:LEU:HD12	1.95	0.49
7:cG:64:TYR:OH	7:cG:381:GLU:OE2	2.29	0.49
7:cH:116:ILE:HD13	7:cH:171:ILE:HG23	1.95	0.49
7:cK:151:ILE:O	7:cK:155:LYS:HG2	2.13	0.49
7:cN:454:TYR:HB3	7:cN:467:TRP:CD1	2.48	0.49
7:cO:26:THR:HA	7:cO:77:ASP:O	2.13	0.49
7:dS:105:THR:O	7:dS:180:ALA:HA	2.13	0.49
7:dU:237:GLU:OE1	7:dU:284:ARG:NH1	2.37	0.49
8:eU:181:LYS:N	8:eU:264:GLN:OE1	2.45	0.49
8:fr:629:ASP:OD1	8:fr:631:VAL:N	2.44	0.49
8:fW:120:ARG:O	8:fW:161:TYR:OH	2.29	0.49
9:gG:402:GLU:OE2	9:gG:413:ARG:NH2	2.35	0.49
11:h2:64:ARG:NH1	11:hw:95:GLN:HG3	2.28	0.49
11:hh:118:ARG:HB2	11:hi:77:GLU:OE2	2.13	0.49
11:ho:22:GLN:HB2	11:ho:116:TYR:HE2	1.77	0.49
11:hr:83:GLN:HA	11:hr:86:VAL:HG22	1.95	0.49
11:hz:91:ILE:HG22	11:hz:107:TYR:HB3	1.95	0.49
16:o0:190:TYR:CG	16:o1:117:GLY:HA3	2.48	0.49
16:o6:253:TRP:CG	16:o6:262:LEU:HD13	2.47	0.49
17:q4:104:PHE:CZ	17:q7:213:ALA:HB3	2.48	0.49
17:q7:6:GLU:O	17:q7:10:GLN:HB2	2.13	0.49
18:rf:11:UNK:O	18:rf:14:UNK:N	2.45	0.49
1:S0:348:MET:HB2	1:S5:346:ILE:HB	1.95	0.48
1:S1:193:LEU:HD11	1:S2:207:GLY:HA2	1.94	0.48
1:S3:27:PRO:HA	1:S3:29:ILE:HD11	1.95	0.48
1:S4:233:GLN:HA	1:S4:236:VAL:HG22	1.94	0.48
1:S4:291:ARG:HA	1:S6:297:TYR:HB2	1.94	0.48
1:S8:454:HIS:HB3	1:S8:465:ARG:CZ	2.43	0.48
1:SA:61:PRO:HB3	1:SA:74:LYS:HD3	1.95	0.48
1:SA:319:VAL:HG13	1:Sy:313:ALA:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SP:486:ASP:OD1	1:SP:486:ASP:N	2.32	0.48
1:Sw:2:SER:N	4:Wk:239:GLY:O	2.46	0.48
1:Sw:255:SER:O	1:Sw:278:SER:OG	2.23	0.48
1:Sx:14:ARG:HG2	1:Sx:33:GLN:HG2	1.94	0.48
1:Sy:446:LYS:HZ3	1:Sy:460:PHE:HD1	1.61	0.48
1:Sz:476:ASP:HB2	4:XK:353:HIS:HD2	1.77	0.48
2:T9:193:HIS:HB3	2:T9:196:GLU:HG3	1.95	0.48
2:TG:24:LEU:HD21	2:TH:24:LEU:HD21	1.95	0.48
2:Tg:100:ARG:HE	2:Tg:127:ILE:HG21	1.78	0.48
3:UM:35:VAL:HG13	3:UM:58:ASP:HB2	1.95	0.48
3:Us:102:GLY:N	3:Us:118:THR:OG1	2.46	0.48
3:Uu:110:PHE:H	3:Uu:171:TYR:HH	1.60	0.48
3:VM:82:VAL:HB	3:VM:187:LYS:H	1.78	0.48
3:VN:199:GLN:HG2	3:VN:201:VAL:HG23	1.95	0.48
3:Vt:80:GLU:O	3:Vt:187:LYS:NZ	2.40	0.48
4:WJ:213:GLY:O	4:WJ:214:SER:OG	2.26	0.48
4:WJ:273:LYS:HE2	4:WJ:280:ILE:HD13	1.96	0.48
4:WJ:501:LEU:HB3	4:WJ:512:PRO:HB2	1.95	0.48
4:WJ:542:LEU:HD12	4:WK:542:LEU:HD12	1.94	0.48
4:WK:314:ASN:HA	4:WK:380:ILE:HG13	1.95	0.48
4:Wj:30:PHE:O	4:Wj:34:TYR:HB3	2.13	0.48
4:Wj:162:VAL:HA	4:Wj:246:THR:O	2.13	0.48
4:Wj:518:GLY:N	4:Wn:594:THR:OG1	2.46	0.48
4:Wk:313:PHE:CD2	4:Wk:320:LEU:HD21	2.48	0.48
4:Wm:103:ASN:O	4:Wm:105:ASN:N	2.46	0.48
4:Wm:253:GLN:N	4:Wm:253:GLN:OE1	2.46	0.48
4:Wo:186:TYR:HD2	4:Wo:227:GLY:HA2	1.77	0.48
4:XI:403:THR:HB	4:XI:407:TYR:CD2	2.48	0.48
4:XI:451:ASP:HA	4:XI:600:ARG:HH12	1.77	0.48
4:Xj:340:VAL:HG23	4:Xj:341:GLU:HG3	1.94	0.48
4:Xj:554:GLY:O	4:Xn:555:CYS:HB2	2.14	0.48
4:XI:102:TRP:CZ3	4:XI:131:SER:HB2	2.47	0.48
4:XI:194:LYS:HA	4:XI:199:GLU:H	1.78	0.48
4:Xm:60:LEU:HD21	4:Xm:79:ILE:HG22	1.95	0.48
4:Xm:409:SER:HA	4:Xo:407:TYR:HD1	1.78	0.48
4:Xn:49:TRP:CD1	4:Xn:67:SER:HG	2.31	0.48
4:Xn:62:ALA:HB1	4:Xn:82:PRO:HG3	1.93	0.48
4:Xn:229:ASN:OD1	4:Xn:230:ILE:N	2.46	0.48
5:YC:106:ASN:ND2	5:YC:128:THR:O	2.46	0.48
5:YC:538:ASP:OD1	5:YC:538:ASP:N	2.46	0.48
5:YY:969:TYR:CG	5:YY:982:LEU:HD13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:442:SER:HA	5:Yy:490:PHE:O	2.12	0.48
5:Yy:674:TYR:HB2	8:fS:36:TRP:CD1	2.48	0.48
6:ZD:49:SER:OG	6:ZD:50:ASN:N	2.45	0.48
6:aE:30:SER:OG	6:aE:34:LYS:NZ	2.33	0.48
6:ac:134:LEU:HB2	6:ac:187:VAL:HG13	1.95	0.48
7:b9:43:GLN:OE1	7:b9:79:ARG:NH1	2.46	0.48
7:b9:601:ILE:HG22	7:b9:630:GLN:H	1.77	0.48
7:bP:247:GLY:HA2	7:bP:266:LYS:HG3	1.94	0.48
7:cB:129:GLY:HA3	7:cB:145:ILE:HD13	1.94	0.48
7:cC:455:LYS:HB3	7:cC:470:LEU:HD13	1.95	0.48
7:cE:526:THR:OG1	7:cE:527:GLY:N	2.46	0.48
7:cG:432:ALA:HB2	7:cG:440:ASN:HD22	1.78	0.48
7:cH:549:ASP:O	7:cH:550:ARG:NE	2.46	0.48
7:cI:10:LEU:HD13	7:cM:561:LYS:HD2	1.94	0.48
7:cI:137:ASP:OD1	7:cI:137:ASP:N	2.34	0.48
7:cK:560:LEU:O	7:cK:564:ILE:HG12	2.12	0.48
7:cL:505:LEU:HD21	7:cL:525:VAL:HG12	1.95	0.48
7:dS:94:PRO:HD3	7:dS:222:VAL:O	2.14	0.48
7:dU:100:GLU:OE2	7:dU:186:LYS:NZ	2.46	0.48
7:dU:635:ILE:HG23	15:m5:65:MET:SD	2.52	0.48
8:eW:492:TYR:CE1	8:eW:606:ILE:HB	2.48	0.48
8:f9:323:GLU:OE2	8:f9:326:ARG:NH1	2.46	0.48
8:fA:164:ARG:HB3	8:fS:434:GLN:HE21	1.78	0.48
8:fS:96:ASN:HB3	8:fS:333:ARG:HB2	1.95	0.48
8:fU:220:THR:HG22	8:fU:241:GLY:O	2.13	0.48
8:fW:103:LYS:HB3	8:fW:318:ASP:HA	1.94	0.48
8:fW:538:VAL:HG11	8:fW:558:PHE:HE1	1.78	0.48
11:hJ:19:ASN:ND2	11:hx:55:ASN:OD1	2.46	0.48
11:hm:124:THR:OG1	11:hn:78:ALA:HA	2.13	0.48
11:hx:131:GLY:O	11:hx:159:LEU:HA	2.13	0.48
12:iD:253:ILE:O	12:iD:265:MET:HA	2.13	0.48
16:o0:38:PHE:HB3	16:o0:39:PRO:HD3	1.95	0.48
17:q3:93:SER:OG	17:q3:95:ARG:NH2	2.46	0.48
1:S0:199:VAL:HG12	1:S7:212:PRO:HG3	1.96	0.48
1:S0:333:THR:OG1	1:S0:335:ASN:OD1	2.22	0.48
1:S4:118:PRO:HB3	1:S6:106:ALA:HA	1.95	0.48
1:S6:245:VAL:O	1:S8:245:VAL:N	2.44	0.48
1:S7:466:SER:HB3	1:S7:468:PHE:HE2	1.79	0.48
1:SA:155:ASP:HA	1:Sy:163:LEU:HB3	1.94	0.48
1:SA:527:GLU:O	1:Sw:339:ARG:NE	2.45	0.48
1:SO:256:THR:HG21	4:XI:344:VAL:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SO:476:ASP:O	1:SO:479:ASN:ND2	2.47	0.48
1:SQ:476:ASP:HB2	4:Xo:353:HIS:HD2	1.78	0.48
1:Sv:350:ALA:O	1:Sx:382:ARG:NH1	2.46	0.48
1:Sw:165:THR:HG21	1:Sy:160:MET:SD	2.53	0.48
1:Sx:482:TYR:CD2	1:Sz:452:GLY:HA2	2.48	0.48
1:Sz:20:PRO:HD3	1:Sz:29:ILE:HG21	1.95	0.48
1:Sz:454:HIS:HB3	1:Sz:465:ARG:CZ	2.43	0.48
2:T2:47:LYS:HD2	2:T2:59:GLN:HG2	1.95	0.48
2:Te:84:ARG:HG2	2:Te:108:GLU:HB2	1.95	0.48
2:Ti:212:ARG:HG3	2:Ti:213:LYS:HG3	1.95	0.48
3:UM:148:ASP:OD1	3:UM:148:ASP:N	2.44	0.48
3:Uq:42:GLN:HB3	3:Uq:47:PHE:HB3	1.95	0.48
3:VM:17:PHE:CZ	3:VM:45:LYS:HB3	2.48	0.48
3:VN:171:TYR:HB2	4:XJ:339:GLU:HB2	1.94	0.48
3:Vq:198:ALA:O	3:Vs:203:LEU:HB3	2.13	0.48
3:Vu:90:PHE:HA	3:Vu:177:THR:O	2.14	0.48
4:WI:232:LEU:HG	4:WI:234:GLN:H	1.77	0.48
4:WJ:414:VAL:HG23	4:WJ:441:ARG:HB2	1.95	0.48
4:Wk:9:ASN:HA	4:Wm:20:ARG:HE	1.78	0.48
4:Wk:213:GLY:O	4:Wk:221:GLU:HB2	2.13	0.48
4:Wk:428:ILE:HG21	4:Wk:599:ILE:HD13	1.95	0.48
4:Wk:557:TYR:OH	4:Wm:556:GLN:OE1	2.18	0.48
4:Wm:172:GLN:HG2	4:Wm:173:GLY:H	1.78	0.48
4:Wm:180:VAL:HG13	4:Wm:181:PHE:N	2.28	0.48
4:Wm:191:ILE:H	4:Wo:164:ARG:NH2	2.11	0.48
4:Wo:62:ALA:HA	4:Wo:68:TYR:HE2	1.79	0.48
4:XI:193:VAL:O	4:XI:199:GLU:N	2.45	0.48
4:XJ:327:PRO:HG3	4:XK:264:ARG:HD3	1.95	0.48
4:XK:215:PRO:HD2	4:XK:225:LEU:HA	1.94	0.48
4:Xj:162:VAL:HA	4:Xj:246:THR:O	2.13	0.48
4:Xj:204:ASP:OD1	4:Xj:204:ASP:N	2.46	0.48
4:Xj:223:VAL:HB	4:Xj:224:PRO:HD3	1.95	0.48
4:Xm:70:ILE:HG22	4:Xm:102:TRP:HE1	1.78	0.48
4:Xm:79:ILE:HG13	4:Xm:109:LEU:HA	1.94	0.48
4:Xn:281:TYR:HE2	4:Xn:291:ILE:HD12	1.77	0.48
4:Xo:290:SER:HA	4:Xo:371:PHE:N	2.24	0.48
5:YX:38:ILE:HD12	5:YX:57:ILE:HB	1.95	0.48
5:YX:482:ASP:OD1	5:YX:482:ASP:N	2.46	0.48
5:YY:122:PHE:HE1	5:YY:135:VAL:HG21	1.76	0.48
5:YY:349:LEU:HD22	5:YY:349:LEU:HA	1.72	0.48
5:YY:588:TYR:HB2	5:YY:593:GLU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:600:PHE:CZ	5:YY:608:VAL:HB	2.49	0.48
5:Yc:43:THR:H	5:Yc:50:PRO:HD3	1.78	0.48
5:Yc:1025:PRO:O	5:Yc:1026:THR:HG22	2.13	0.48
6:Za:275:ILE:HA	6:Za:309:MET:HA	1.95	0.48
6:Zb:37:ILE:HG21	6:Zb:249:PHE:HE2	1.78	0.48
6:aD:59:PRO:O	6:aD:314:ASN:ND2	2.36	0.48
7:b0:77:ASP:OD2	7:b0:79:ARG:NH2	2.46	0.48
7:b0:598:LEU:HD21	11:hp:7:THR:HG22	1.95	0.48
7:b4:221:GLY:O	7:b4:325:ALA:HA	2.13	0.48
7:b6:228:GLY:HA2	7:b6:345:SER:HB3	1.95	0.48
7:b7:240:SER:OG	7:b7:243:ASP:OD1	2.31	0.48
7:b8:417:ILE:HB	7:b8:421:ARG:HB3	1.96	0.48
7:bQ:494:TYR:CZ	7:dV:569:LYS:HD3	2.48	0.48
7:bR:99:ILE:HA	7:bR:187:ILE:HD13	1.94	0.48
7:bR:450:ILE:HG22	7:bR:541:ALA:HB2	1.94	0.48
7:bY:394:VAL:HG11	7:bY:443:ILE:HD12	1.94	0.48
7:cF:278:GLN:HG2	7:cF:296:SER:HB2	1.95	0.48
7:cH:209:ASP:OD1	7:cH:209:ASP:N	2.47	0.48
7:cJ:484:VAL:HG13	7:cJ:485:SER:H	1.79	0.48
7:cL:332:GLU:OE1	7:cL:332:GLU:N	2.36	0.48
7:cM:296:SER:OG	7:cM:297:THR:N	2.46	0.48
7:cN:159:GLU:O	7:cN:162:THR:N	2.46	0.48
7:dU:456:TYR:HB3	7:dU:503:ILE:HG12	1.95	0.48
8:f9:388:GLN:O	8:f9:392:ILE:HG22	2.13	0.48
8:fA:389:ARG:HB2	8:fA:408:ILE:HB	1.94	0.48
8:fR:448:TYR:HA	8:fR:452:VAL:HG13	1.95	0.48
8:fS:123:ILE:HD12	8:fS:295:ILE:HD11	1.94	0.48
8:fS:612:THR:H	8:fS:615:LYS:HE3	1.78	0.48
11:h1:80:ASP:O	11:h1:84:LYS:HG3	2.13	0.48
11:ho:98:GLU:OE1	11:ho:98:GLU:N	2.31	0.48
14:kV:192:TYR:CZ	16:o6:81:ARG:HD3	2.48	0.48
14:IV:46:ARG:HH22	16:pA:268:ALA:HA	1.77	0.48
16:pA:319:ILE:HG23	16:pA:346:ILE:HG22	1.95	0.48
16:pA:339:PRO:HD2	16:pA:342:PHE:CE2	2.48	0.48
1:S1:47:VAL:H	1:S1:48:PRO:CD	2.26	0.48
1:S5:360:ARG:HG3	1:S5:525:VAL:HG21	1.95	0.48
1:S6:340:THR:HG22	1:S6:341:ILE:HG12	1.95	0.48
1:S7:5:THR:HG23	4:Xo:196:ARG:NE	2.29	0.48
1:SO:172:LEU:O	1:SO:175:GLN:NE2	2.46	0.48
1:SO:513:ARG:NH2	1:SP:441:GLN:OE1	2.45	0.48
1:SQ:228:ILE:HD12	1:SQ:244:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sw:283:TRP:HB3	1:Sy:279:SER:HB2	1.94	0.48
1:Sx:89:ASN:OD1	1:Sx:90:ALA:N	2.46	0.48
1:Sy:497:ASN:OD1	1:Sy:500:TYR:N	2.38	0.48
2:T1:7:LYS:NZ	2:T3:59:GLN:OE1	2.33	0.48
2:Te:202:LEU:HB3	2:Te:278:VAL:HG22	1.95	0.48
2:Tf:133:VAL:HG21	2:Tf:137:LEU:HD13	1.95	0.48
3:Uq:17:PHE:CE1	3:Uq:45:LYS:HB3	2.49	0.48
3:Ur:197:GLY:HA3	3:Ut:203:LEU:HD13	1.95	0.48
3:Uu:90:PHE:HA	3:Uu:177:THR:O	2.14	0.48
3:VN:14:LEU:O	3:VN:16:ASP:N	2.47	0.48
3:VN:102:GLY:N	3:VN:118:THR:OG1	2.46	0.48
3:Vu:7:LYS:HB3	4:Xk:318:GLN:HE22	1.79	0.48
4:Wl:464:VAL:HG12	4:WJ:429:GLY:HA2	1.96	0.48
4:WK:20:ARG:HH12	4:WK:24:ILE:HD12	1.78	0.48
4:WK:186:TYR:HB3	4:WK:227:GLY:O	2.14	0.48
4:Wj:250:GLY:O	4:Wj:254:TRP:HD1	1.96	0.48
4:Wl:214:SER:HB2	4:Wl:215:PRO:HD2	1.95	0.48
4:Wl:215:PRO:HB3	4:Wl:229:ASN:HB3	1.94	0.48
4:Wl:342:CYS:HB3	4:Wl:349:TRP:CH2	2.48	0.48
4:Wn:293:PHE:HB2	4:Wn:296:PHE:CG	2.48	0.48
4:XK:20:ARG:HB2	5:Yc:923:SER:N	2.27	0.48
4:XK:138:CYS:SG	4:XK:140:PRO:HD2	2.52	0.48
4:XK:139:ALA:HB3	4:XK:140:PRO:HD3	1.95	0.48
4:XK:318:GLN:HB2	4:XK:320:LEU:HD12	1.94	0.48
4:Xl:64:TRP:O	4:Xl:93:ILE:HG22	2.13	0.48
4:Xl:329:PHE:HB3	4:Xl:332:VAL:HB	1.94	0.48
4:Xm:419:ASP:HB3	4:Xm:436:VAL:HB	1.95	0.48
4:Xn:215:PRO:HD2	4:Xn:225:LEU:HA	1.95	0.48
4:Xo:261:ARG:HD2	4:Xo:297:GLY:HA3	1.94	0.48
5:YC:987:ARG:HE	5:YC:988:LYS:HG3	1.78	0.48
5:YX:314:THR:OG1	5:YX:315:ASP:N	2.46	0.48
5:YY:83:ALA:HB1	5:YY:92:SER:HB3	1.94	0.48
5:YY:312:THR:OG1	5:YY:368:MET:O	2.24	0.48
5:Yx:174:HIS:HA	5:Yx:535:VAL:HA	1.95	0.48
5:Yx:423:GLU:N	5:Yx:423:GLU:OE1	2.46	0.48
5:Yy:180:ILE:HD11	5:Yy:532:ALA:HB2	1.95	0.48
5:Yy:251:ASP:OD1	5:Yy:252:LYS:NZ	2.38	0.48
6:ZZ:49:SER:OG	6:ZZ:50:ASN:N	2.45	0.48
6:Za:20:LYS:HB3	6:Zc:20:LYS:NZ	2.28	0.48
6:Zb:136:VAL:HG23	6:Zb:150:LYS:HD2	1.95	0.48
7:b6:57:PRO:HG3	7:b6:65:PHE:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b6:444:SER:OG	7:b6:543:SER:OG	2.20	0.48
7:b7:108:SER:O	7:b7:177:GLY:HA2	2.13	0.48
7:b7:636:ASN:O	7:cE:6:PRO:HA	2.13	0.48
7:bY:453:ASN:HB3	7:bY:507:ILE:HG12	1.96	0.48
7:cD:349:GLU:N	7:cD:349:GLU:OE1	2.46	0.48
7:cF:22:ASN:ND2	7:cF:76:ASN:OD1	2.46	0.48
7:cF:107:GLY:HA3	7:cF:110:TYR:HE2	1.78	0.48
7:cO:135:ASP:HB3	7:cO:139:LYS:HB2	1.94	0.48
7:cP:272:GLY:O	7:cP:274:GLN:NE2	2.45	0.48
7:dT:591:TYR:O	7:dT:595:ILE:HG12	2.14	0.48
7:dV:498:GLN:HA	7:dV:534:VAL:HG12	1.96	0.48
7:dW:473:ASP:HB3	7:dW:499:ILE:HD12	1.94	0.48
7:dZ:28:ALA:HB2	7:dZ:370:VAL:HG11	1.95	0.48
8:eB:56:LEU:O	8:eB:60:LEU:HG	2.14	0.48
8:eB:448:TYR:CD2	8:eB:642:PHE:HB2	2.48	0.48
8:eU:414:LEU:HD23	8:eU:486:ARG:NH2	2.29	0.48
8:eU:510:MET:HE3	8:eU:623:LEU:HD11	1.95	0.48
8:eW:510:MET:HE3	8:eW:623:LEU:HD11	1.95	0.48
8:fA:386:THR:HA	8:fA:389:ARG:HG2	1.95	0.48
8:fr:386:THR:HA	8:fr:389:ARG:HG2	1.94	0.48
9:gE:344:LYS:HA	9:gE:344:LYS:HD3	1.65	0.48
9:gG:514:VAL:HG12	9:gG:516:GLY:H	1.78	0.48
11:hK:60:VAL:HG23	11:hL:104:PRO:HG3	1.95	0.48
11:hL:41:LEU:HD13	11:hM:142:LEU:HD22	1.95	0.48
11:hL:54:MET:HB3	17:q7:21:MET:HE3	1.95	0.48
11:hf:70:THR:HG22	11:hf:156:THR:HG22	1.95	0.48
11:hw:38:ALA:HB3	11:hw:72:THR:HG23	1.95	0.48
11:hw:48:LYS:HG3	11:hw:59:ASN:HB3	1.94	0.48
12:iD:182:SER:OG	12:iD:199:ASP:OD2	2.31	0.48
15:m6:14:GLU:O	15:m6:16:LYS:N	2.45	0.48
16:pA:214:ARG:O	16:pA:215:SER:OG	2.26	0.48
17:q9:163:ARG:HB3	17:q9:236:ILE:HD11	1.96	0.48
1:S1:166:GLN:HA	1:S1:170:ILE:HG13	1.96	0.48
1:S2:349:TRP:NE1	1:S2:353:SER:O	2.44	0.48
1:S3:6:TYR:CE1	4:XI:234:GLN:HG2	2.48	0.48
1:S4:400:VAL:HG11	1:S8:348:MET:SD	2.54	0.48
1:S8:417:ASN:ND2	1:S8:421:GLY:O	2.45	0.48
1:SO:442:MET:HA	1:SQ:512:THR:HA	1.95	0.48
1:SO:503:ASN:OD1	1:SQ:446:LYS:N	2.27	0.48
1:SO:504:ARG:HD2	1:SQ:444:TYR:CZ	2.48	0.48
1:SP:5:THR:HG23	4:WK:196:ARG:NE	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SQ:46:GLY:O	1:SQ:47:VAL:HB	2.14	0.48
1:Sv:125:LEU:HB2	1:Sz:121:PHE:HZ	1.79	0.48
1:Sv:228:ILE:HD11	1:Sz:228:ILE:HB	1.96	0.48
1:Sv:303:GLU:HA	1:Sx:309:ALA:HB3	1.95	0.48
1:Sv:442:MET:HE3	1:Sz:507:LEU:HD11	1.94	0.48
1:Sw:196:VAL:HA	1:Sw:199:VAL:HG22	1.95	0.48
1:Sw:448:ALA:N	1:Sy:485:ASN:OD1	2.34	0.48
1:Sw:513:ARG:NH2	1:Sy:441:GLN:OE1	2.46	0.48
1:Sx:263:VAL:O	1:Sz:255:SER:OG	2.23	0.48
1:Sz:181:THR:O	1:Sz:190:VAL:HG22	2.13	0.48
1:Sz:493:GLU:HG3	1:Sz:496:ARG:NH2	2.28	0.48
2:T1:219:ILE:HG13	2:T1:234:GLU:HA	1.94	0.48
2:T7:213:LYS:HE3	2:T7:249:ILE:HG12	1.94	0.48
2:T8:17:ASN:OD1	2:T8:18:ALA:N	2.47	0.48
2:TH:178:THR:HA	2:TH:275:ALA:HA	1.95	0.48
3:UN:47:PHE:CZ	3:UN:49:GLU:HB2	2.49	0.48
3:Ur:149:HIS:CD2	3:Ur:150:PRO:HD2	2.48	0.48
3:Us:42:GLN:OE1	3:Us:42:GLN:N	2.45	0.48
3:Vq:171:TYR:HB2	4:Xo:339:GLU:HB2	1.94	0.48
4:Wl:326:MET:HE2	4:Wl:327:PRO:HD3	1.95	0.48
4:Wj:138:CYS:SG	4:Wj:140:PRO:HD2	2.54	0.48
4:Wk:480:LEU:HD13	4:Wk:483:GLN:NE2	2.29	0.48
4:Wl:94:ARG:HE	4:Wn:46:ALA:HB1	1.78	0.48
4:Wl:274:THR:HA	4:Wl:282:VAL:HG11	1.94	0.48
4:Wm:322:GLY:N	4:Wm:358:VAL:O	2.46	0.48
4:Wn:117:ILE:HA	4:Wn:143:TRP:HB2	1.94	0.48
4:XK:188:VAL:HG23	4:XK:225:LEU:HD22	1.95	0.48
4:Xj:138:CYS:HB3	4:Xj:142:ARG:HB3	1.95	0.48
4:Xi:193:VAL:HG13	4:Xi:199:GLU:HB3	1.93	0.48
4:Xi:222:LEU:HG	4:Xi:224:PRO:HD2	1.95	0.48
4:Xi:323:THR:HB	4:Xi:355:ASP:HB3	1.96	0.48
4:Xi:419:ASP:HB3	4:Xi:436:VAL:HB	1.96	0.48
4:Xm:191:ILE:H	4:Xo:164:ARG:NH2	2.12	0.48
5:YX:415:ARG:NH1	5:YX:418:GLY:O	2.47	0.48
5:YX:420:THR:OG1	5:YX:421:GLU:N	2.47	0.48
5:YX:1000:THR:HG22	5:YX:1001:PHE:H	1.79	0.48
5:YX:1027:GLN:HA	6:Zb:6:VAL:O	2.14	0.48
5:YY:676:SER:HB3	5:YY:683:TYR:HB3	1.94	0.48
5:YY:947:VAL:HA	6:Za:118:PRO:HB2	1.93	0.48
5:Yy:81:ARG:HD2	5:Yy:94:TRP:HB3	1.95	0.48
7:b3:15:VAL:H	7:cE:643:VAL:HG22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bN:351:THR:HG23	7:bN:354:ASP:H	1.79	0.48
7:bN:410:PRO:O	7:bN:413:THR:HG22	2.13	0.48
7:bO:57:PRO:HB2	7:bO:62:ALA:HA	1.94	0.48
7:bP:410:PRO:O	7:bP:413:THR:HG22	2.12	0.48
7:bP:440:ASN:ND2	7:bP:442:ASN:HB2	2.28	0.48
7:bQ:40:GLN:H	7:bQ:81:VAL:HG23	1.78	0.48
7:bQ:383:LEU:HD11	7:bQ:436:TYR:CE2	2.49	0.48
7:bR:308:ASN:ND2	7:bR:313:ASP:OD2	2.46	0.48
7:cE:484:VAL:HG13	7:cE:485:SER:H	1.79	0.48
7:cH:110:TYR:H	7:cH:138:GLY:CA	2.27	0.48
7:cK:643:VAL:HG12	7:cK:645:THR:HG23	1.95	0.48
7:dS:116:ILE:HG12	7:dS:171:ILE:HG22	1.94	0.48
7:dU:240:SER:OG	7:dU:243:ASP:OD1	2.32	0.48
7:dW:414:VAL:HG23	7:dW:422:ALA:HB1	1.95	0.48
8:eB:227:ARG:NH1	8:eB:229:THR:HG22	2.29	0.48
8:eB:426:LEU:HD13	8:eB:657:PRO:HB3	1.96	0.48
8:eB:611:LEU:HD23	8:eB:611:LEU:H	1.79	0.48
8:eU:538:VAL:HG11	8:eU:558:PHE:HE1	1.79	0.48
8:f9:389:ARG:HB2	8:f9:408:ILE:HB	1.95	0.48
8:fA:382:LEU:O	8:fA:413:TYR:OH	2.28	0.48
11:hp:49:ILE:HG22	11:hz:148:ASN:HB3	1.95	0.48
11:hq:143:ASP:OD1	11:hq:144:TRP:N	2.46	0.48
11:hu:98:GLU:OE1	11:hu:98:GLU:N	2.40	0.48
11:hy:48:LYS:HG3	11:hy:59:ASN:HB3	1.95	0.48
12:iD:158:PRO:HB3	12:iD:285:GLU:HB2	1.95	0.48
14:kV:4:THR:OG1	16:o6:78:ARG:NE	2.46	0.48
16:o2:213:PRO:HD2	16:o2:340:SER:O	2.13	0.48
17:q3:159:VAL:HG13	17:q3:242:THR:HG22	1.95	0.48
17:q4:212:THR:OG1	17:q4:251:GLY:O	2.18	0.48
1:S0:2:SER:HA	4:Xk:200:LEU:HD22	1.96	0.48
1:S3:171:LYS:HB3	1:S3:175:GLN:NE2	2.28	0.48
1:S4:61:PRO:O	1:S6:72:ASN:ND2	2.46	0.48
1:S4:515:TRP:CD1	1:S6:440:GLN:HB3	2.49	0.48
1:S6:463:THR:HG21	1:S8:490:ILE:HD12	1.96	0.48
1:S8:77:THR:HG22	1:S8:80:THR:H	1.78	0.48
1:SA:480:ARG:HD3	1:Sw:462:ASN:ND2	2.29	0.48
1:SP:5:THR:HA	4:WK:196:ARG:HD2	1.95	0.48
1:Sx:482:TYR:HA	1:Sz:462:ASN:HB3	1.94	0.48
2:TG:44:ASP:O	2:TG:59:GLN:NE2	2.45	0.48
2:Td:85:HIS:HB2	2:Td:109:PHE:CD1	2.49	0.48
3:UN:71:ILE:HD12	3:UN:79:PRO:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:312:ARG:HG2	4:WJ:317:LEU:HA	1.95	0.48
4:WK:71:ASN:OD1	4:WK:72:THR:N	2.47	0.48
4:WK:259:THR:OG1	4:WK:385:TRP:HB2	2.12	0.48
4:Wj:129:ARG:HG3	4:Wj:130:PHE:H	1.79	0.48
4:Wj:403:THR:HB	4:Wj:407:TYR:CD2	2.48	0.48
4:Wk:158:ASP:OD1	4:Wk:158:ASP:N	2.45	0.48
4:Wk:213:GLY:O	4:Wk:214:SER:OG	2.24	0.48
4:Wk:358:VAL:HG13	4:Wk:369:LEU:HB2	1.96	0.48
4:Wm:342:CYS:HB3	4:Wm:349:TRP:CH2	2.49	0.48
4:Wo:331:CYS:O	4:Wo:349:TRP:NE1	2.44	0.48
4:XI:321:ALA:HA	4:XI:358:VAL:HB	1.94	0.48
4:XJ:425:PHE:HD2	4:XJ:601:ILE:HD12	1.77	0.48
4:Xj:89:TYR:CE1	4:Xj:139:ALA:HA	2.48	0.48
4:Xj:322:GLY:HA2	4:Xj:360:THR:H	1.78	0.48
4:Xj:361:ASP:OD1	4:Xj:362:GLU:N	2.47	0.48
4:Xk:594:THR:OG1	4:Xm:518:GLY:N	2.47	0.48
4:XI:208:GLU:OE1	4:XI:233:ARG:NH1	2.46	0.48
4:Xm:285:LEU:HD11	4:Xm:375:PHE:HB2	1.95	0.48
5:YY:204:ARG:O	5:YY:230:GLY:N	2.46	0.48
5:YY:217:GLN:HG2	5:YY:218:THR:HG23	1.96	0.48
5:YY:449:LYS:HD2	6:aZ:74:HIS:CE1	2.48	0.48
5:YY:796:THR:OG1	5:YY:861:TYR:O	2.19	0.48
5:Yc:185:LYS:HE2	5:Yc:206:GLN:HE22	1.78	0.48
5:Yc:407:ASN:OD1	5:Yc:407:ASN:N	2.45	0.48
5:Yc:423:GLU:N	5:Yc:423:GLU:OE1	2.46	0.48
6:ZD:228:ASN:HB3	6:ZD:231:TRP:CD1	2.47	0.48
6:Za:54:VAL:HG23	6:Zc:5:SER:HA	1.95	0.48
6:Za:195:PRO:HG2	6:Za:198:VAL:HB	1.96	0.48
6:Za:263:LEU:HB2	6:Za:266:ASN:HB2	1.95	0.48
6:Zc:28:ILE:HG22	6:Zc:83:PRO:HG3	1.94	0.48
7:b0:237:GLU:OE1	7:b0:284:ARG:NH1	2.32	0.48
7:b3:454:TYR:HB3	7:b3:467:TRP:CD1	2.48	0.48
7:b5:66:MET:HG2	7:b5:468:VAL:HG11	1.95	0.48
7:b6:264:THR:O	7:b6:266:LYS:N	2.46	0.48
7:b9:90:LYS:NZ	7:b9:190:ASP:OD1	2.46	0.48
7:b9:430:ARG:HG3	7:b9:522:ILE:HD11	1.93	0.48
7:bP:153:LYS:HG2	7:bP:167:TRP:CH2	2.49	0.48
7:bY:97:GLY:O	7:bY:147:THR:OG1	2.25	0.48
7:bY:199:GLU:HB2	7:cH:467:TRP:CZ3	2.48	0.48
7:cA:116:ILE:N	7:cA:129:GLY:O	2.47	0.48
7:cA:441:PHE:CZ	7:cA:443:ILE:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cB:77:ASP:OD2	7:cB:79:ARG:NH2	2.47	0.48
7:cB:641:ASN:HA	7:cF:11:LYS:O	2.14	0.48
7:cC:31:GLY:HA3	7:cC:64:TYR:CD1	2.48	0.48
7:cF:118:VAL:HB	7:cF:126:GLU:HB3	1.96	0.48
7:cL:417:ILE:H	7:cL:417:ILE:HD13	1.79	0.48
7:cM:484:VAL:HG13	7:cM:485:SER:H	1.78	0.48
7:cN:108:SER:O	7:cN:177:GLY:HA2	2.13	0.48
7:cO:296:SER:OG	7:cO:297:THR:N	2.45	0.48
7:dT:74:TYR:OH	7:dT:500:LEU:N	2.35	0.48
8:eU:311:VAL:HG11	15:mT:20:ASN:HA	1.95	0.48
8:f9:462:SER:O	8:f9:466:THR:HG23	2.13	0.48
8:fA:257:ILE:HG12	8:fB:331:ILE:HD11	1.96	0.48
8:fA:332:LYS:NZ	8:fA:351:GLU:OE1	2.42	0.48
8:fB:511:GLU:HB3	8:fB:541:VAL:HG13	1.95	0.48
8:fR:582:ASN:ND2	8:fR:586:ARG:HG2	2.28	0.48
8:fU:172:ILE:HD13	8:fU:273:ILE:HG12	1.95	0.48
8:fU:362:THR:HG22	8:fU:374:ILE:HD13	1.95	0.48
8:fW:634:THR:HG21	8:fW:640:ILE:HG13	1.96	0.48
8:fr:215:VAL:HG21	8:fr:252:LEU:C	2.38	0.48
9:gH:121:TYR:OH	9:gH:396:GLU:OE1	2.29	0.48
9:gH:236:ILE:HG23	9:gH:240:GLU:HB2	1.96	0.48
9:gH:402:GLU:OE2	9:gH:413:ARG:NH2	2.47	0.48
11:hq:14:ASP:OD1	11:hq:17:ARG:NH2	2.46	0.48
11:hs:104:PRO:HA	11:hs:107:TYR:CE2	2.49	0.48
11:hw:23:VAL:HG22	11:hw:36:CYS:SG	2.54	0.48
15:mT:115:ASN:OD1	15:mT:115:ASN:N	2.47	0.48
16:o2:96:ARG:NE	16:o2:100:SER:OG	2.47	0.48
16:o6:117:GLY:HA3	16:pA:190:TYR:CG	2.48	0.48
1:S0:448:ALA:N	1:S5:485:ASN:OD1	2.47	0.48
1:S1:12:GLU:HB3	1:S1:15:TYR:HB3	1.96	0.48
1:S1:240:ASN:HB3	1:S1:243:VAL:HG22	1.96	0.48
1:S1:257:THR:O	1:S3:273:SER:OG	2.32	0.48
1:S3:47:VAL:HB	1:S3:48:PRO:HD3	1.96	0.48
1:S3:359:TRP:CE2	1:S3:524:LYS:HD3	2.49	0.48
1:S4:463:THR:HG23	1:S8:483:PHE:HE1	1.79	0.48
1:S5:283:TRP:HB3	1:S7:279:SER:HB2	1.94	0.48
1:S6:141:VAL:HG22	1:S8:139:ASN:HB2	1.95	0.48
1:S8:5:THR:HA	4:Xl:196:ARG:HD2	1.95	0.48
1:Sv:405:ARG:NH1	1:Sv:410:THR:HG22	2.29	0.48
1:Sv:515:TRP:HB3	1:Sx:398:LEU:HD22	1.94	0.48
1:Sw:305:THR:HA	1:Sy:311:GLY:HA3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sw:451:PHE:CZ	1:Sw:471:THR:HG22	2.46	0.48
1:Sy:29:ILE:HG22	1:Sy:30:THR:H	1.78	0.48
1:Sz:324:GLY:HA3	1:Sz:331:ILE:HD12	1.95	0.48
2:T1:83:THR:HA	2:T3:63:ALA:HB3	1.96	0.48
2:T7:63:ALA:O	2:T9:84:ARG:NE	2.46	0.48
2:T9:47:LYS:HD2	2:T9:59:GLN:HG2	1.95	0.48
2:TF:50:VAL:C	2:TF:52:ASN:H	2.22	0.48
2:Td:284:ILE:HG12	2:Th:275:ALA:HB2	1.96	0.48
2:Th:87:ILE:HG21	2:Th:122:LEU:HD12	1.94	0.48
3:Up:11:ILE:O	3:Ut:7:LYS:HD2	2.13	0.48
3:Uu:147:LYS:O	3:Uu:157:GLU:N	2.46	0.48
3:VM:4:LEU:HD23	3:VM:5:ASN:N	2.29	0.48
3:VM:122:ALA:O	3:VM:126:VAL:HG23	2.14	0.48
3:VM:193:TRP:CZ3	3:VM:217:ARG:HB2	2.49	0.48
3:Vp:195:LEU:HD13	3:Vp:215:PHE:HE1	1.78	0.48
3:Vq:13:ARG:HG2	3:Vq:14:LEU:H	1.78	0.48
3:Vt:90:PHE:O	3:Vt:154:SER:HB2	2.12	0.48
3:Vu:90:PHE:CE1	3:Vu:178:ILE:HG23	2.49	0.48
4:WJ:222:LEU:HG	4:WJ:224:PRO:HD2	1.95	0.48
4:Wj:27:ASN:HD21	4:Wn:4:ASN:HD21	1.61	0.48
4:Wj:137:TYR:HA	4:Wj:143:TRP:HD1	1.78	0.48
4:Wl:453:ILE:HG21	4:Wn:453:ILE:HD12	1.95	0.48
4:Wm:542:LEU:HD11	4:Wo:569:TYR:HE2	1.78	0.48
4:Wn:338:ASP:HB3	4:Wn:349:TRP:CD1	2.49	0.48
4:XI:20:ARG:HD3	5:Yc:995:ASP:HA	1.94	0.48
4:XI:348:THR:OG1	4:XI:350:GLU:OE2	2.30	0.48
4:XI:359:GLU:HB3	4:XI:370:HIS:HB3	1.95	0.48
4:Xk:468:ASN:HB3	4:Xk:471:THR:HG23	1.94	0.48
4:Xk:532:LEU:HD11	4:Xm:533:PRO:HD2	1.94	0.48
4:XI:200:LEU:HD11	4:Xn:241:THR:HG21	1.95	0.48
4:Xn:266:LEU:HA	4:Xn:377:HIS:O	2.13	0.48
5:YC:442:SER:HA	5:YC:490:PHE:O	2.13	0.48
5:YC:793:CYS:SG	5:YC:820:LEU:HD11	2.52	0.48
5:Yc:285:LEU:HD23	5:Yc:287:LEU:HD23	1.96	0.48
5:Yc:482:ASP:OD1	5:Yc:482:ASP:N	2.45	0.48
5:Yc:857:ARG:HD3	5:Yc:860:SER:HB2	1.95	0.48
5:Yx:529:SER:OG	6:ac:233:GLN:OE1	2.31	0.48
5:Yx:627:GLU:CD	5:Yx:627:GLU:H	2.20	0.48
5:Yy:22:GLN:HE21	5:Yy:22:GLN:HB2	1.51	0.48
5:Yy:52:ASN:OD1	5:Yy:53:GLN:NE2	2.46	0.48
5:Yy:486:HIS:CD2	6:aD:65:VAL:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZD:295:ASP:OD1	6:ZD:295:ASP:N	2.47	0.48
7:b3:108:SER:O	7:b3:177:GLY:HA2	2.13	0.48
7:b9:118:VAL:HB	7:b9:126:GLU:HB3	1.96	0.48
7:bN:44:VAL:HG11	7:bN:50:LEU:HB2	1.94	0.48
7:bQ:57:PRO:HA	7:bQ:61:THR:HB	1.94	0.48
7:cF:70:ASN:ND2	7:cF:473:ASP:OD1	2.42	0.48
7:cG:484:VAL:HG13	7:cG:485:SER:H	1.79	0.48
7:cI:400:ARG:HD3	7:cI:403:CYS:SG	2.53	0.48
7:cN:11:LYS:HG2	7:cN:13:THR:HG23	1.95	0.48
7:cO:455:LYS:NZ	7:cO:473:ASP:OD2	2.46	0.48
7:cP:440:ASN:ND2	7:cP:442:ASN:HB2	2.29	0.48
7:cP:620:ARG:HB2	7:cP:622:GLU:HG3	1.93	0.48
8:eU:213:SER:OG	8:eU:216:HIS:ND1	2.32	0.48
8:eW:220:THR:HG22	8:eW:241:GLY:O	2.13	0.48
8:fA:171:ARG:NH2	12:iD:141:GLN:O	2.47	0.48
8:fS:125:ILE:HB	8:fS:151:VAL:HG13	1.95	0.48
8:fW:135:ALA:C	8:fW:137:ASP:H	2.21	0.48
8:fr:484:MET:HE1	8:fr:503:ASN:HB2	1.95	0.48
9:gG:44:VAL:HG11	12:iC:272:GLU:HG2	1.95	0.48
9:gG:466:ASN:ND2	9:gH:462:GLU:OE1	2.41	0.48
9:gH:284:MET:HE1	9:gH:292:PHE:HE1	1.79	0.48
11:h1:110:SER:HB2	11:h1:130:LYS:HA	1.94	0.48
11:hL:143:ASP:OD1	11:hL:145:ASP:N	2.47	0.48
11:hi:24:GLU:OE2	11:hi:33:THR:OG1	2.28	0.48
11:hw:83:GLN:HA	11:hw:86:VAL:HG22	1.94	0.48
11:hw:129:ILE:HG21	11:hw:132:LEU:HD13	1.96	0.48
12:iC:157:VAL:HG21	12:iC:173:VAL:HG22	1.94	0.48
14:k4:79:ASN:ND2	14:k4:81:ASP:O	2.46	0.48
14:lV:48:TYR:CZ	14:lV:63:ILE:HD11	2.49	0.48
16:o1:208:THR:HB	16:o1:345:GLU:HG3	1.95	0.48
1:S1:185:GLU:CD	1:S1:185:GLU:H	2.22	0.48
1:SP:5:THR:HG23	4:WK:196:ARG:CZ	2.43	0.48
1:SP:313:ALA:HB3	1:SQ:319:VAL:HG13	1.96	0.48
2:T7:181:ILE:HG23	2:T7:187:VAL:HG12	1.95	0.48
2:Th:68:GLN:O	2:Th:86:ASP:N	2.38	0.48
2:Ti:176:GLU:HG3	2:Ti:277:LYS:HG3	1.95	0.48
3:Uu:85:THR:HG22	3:Uu:183:ILE:HD12	1.96	0.48
3:Vs:17:PHE:HD1	3:Vs:47:PHE:HB2	1.78	0.48
4:WI:70:ILE:HB	4:WI:102:TRP:CZ2	2.48	0.48
4:WI:248:MET:HE2	4:WI:248:MET:HB3	1.73	0.48
4:WI:407:TYR:CE1	4:WK:407:TYR:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:313:PHE:HB3	4:WJ:381:ILE:HG12	1.94	0.48
4:Wl:388:ASN:HD22	4:Wl:389:ASP:H	1.61	0.48
4:XI:89:TYR:O	4:XI:91:LYS:HG2	2.14	0.48
4:XJ:372:ASP:OD1	4:XJ:372:ASP:N	2.46	0.48
4:Xj:99:PHE:HA	4:Xn:138:CYS:SG	2.53	0.48
4:Xj:119:GLY:HA2	4:Xj:404:ASP:CG	2.39	0.48
4:Xj:202:TYR:OH	4:Xj:223:VAL:O	2.23	0.48
4:Xj:403:THR:HB	4:Xj:407:TYR:CD2	2.48	0.48
4:Xk:166:GLU:N	4:Xk:166:GLU:OE1	2.46	0.48
5:YX:711:ARG:HH12	5:YX:881:ARG:HG2	1.79	0.48
5:YY:324:ASP:HB2	5:YY:357:ILE:HG22	1.95	0.48
5:YY:327:ARG:HD2	5:YY:350:PHE:CZ	2.49	0.48
5:YY:737:THR:HB	5:YY:740:ILE:HD12	1.95	0.48
5:YY:993:LEU:HD21	5:YY:996:ALA:HB2	1.95	0.48
5:Yc:174:HIS:N	5:Yc:508:TYR:OH	2.44	0.48
5:Yc:314:THR:OG1	5:Yc:315:ASP:N	2.47	0.48
5:Yc:494:GLU:HG3	5:Yc:498:TRP:CE3	2.48	0.48
5:Yx:602:TYR:CE2	5:Yx:604:VAL:HB	2.48	0.48
5:Yy:455:VAL:HG23	5:Yy:472:LYS:HB3	1.96	0.48
6:ZD:216:LEU:HD23	6:ZD:236:PHE:HB3	1.95	0.48
6:ZD:313:GLU:HG3	6:ZE:10:ALA:HB2	1.96	0.48
6:Za:46:PRO:HA	6:Za:270:ARG:CZ	2.44	0.48
6:aD:198:VAL:HG13	6:aD:202:ARG:HG3	1.96	0.48
6:aE:170:PRO:HB3	6:aE:188:TRP:CD1	2.48	0.48
6:aZ:19:GLU:OE2	6:aZ:23:ASN:ND2	2.39	0.48
7:b3:29:LEU:HB3	7:b3:80:VAL:HG23	1.95	0.48
7:b4:134:VAL:HG12	7:b4:140:ILE:HG22	1.96	0.48
7:bO:303:ASP:OD1	7:bO:304:ILE:N	2.47	0.48
7:bQ:240:SER:OG	7:bQ:241:LYS:N	2.47	0.48
7:cB:108:SER:O	7:cB:177:GLY:HA2	2.13	0.48
7:cB:540:THR:HG23	7:cB:551:ILE:HG12	1.95	0.48
7:cF:99:ILE:HD12	7:cF:150:ILE:HD13	1.95	0.48
7:cF:417:ILE:HD13	7:cF:417:ILE:H	1.78	0.48
7:cG:36:GLY:O	7:cG:82:ARG:NH1	2.47	0.48
7:cG:237:GLU:OE1	7:cG:284:ARG:NH1	2.38	0.48
7:cK:373:PHE:HB2	7:cK:405:VAL:HG22	1.96	0.48
7:cL:57:PRO:HG3	7:cL:65:PHE:CD1	2.49	0.48
7:cM:140:ILE:O	7:cM:141:LYS:NZ	2.45	0.48
8:eB:341:THR:HG22	8:f9:400:ASN:H	1.79	0.48
8:f9:499:ILE:HD11	8:f9:604:TRP:HZ3	1.79	0.48
8:fU:71:GLY:O	8:fU:75:VAL:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fU:401:LEU:HD22	8:fr:401:LEU:HD21	1.94	0.48
8:fU:507:ASP:OD1	8:fU:545:ARG:NH1	2.47	0.48
8:fU:508:ARG:HE	8:fU:544:ASP:HB2	1.79	0.48
8:fr:338:ARG:HA	8:fr:399:TYR:HB3	1.95	0.48
8:fs:191:ASN:HB3	8:fs:275:THR:O	2.14	0.48
8:fs:507:ASP:OD1	8:fs:545:ARG:N	2.37	0.48
9:gH:383:TYR:HD1	9:gH:411:ARG:CZ	2.27	0.48
11:hJ:45:ILE:HA	11:hK:135:THR:O	2.12	0.48
11:hK:99:ILE:HG21	17:q8:21:MET:HE1	1.95	0.48
11:hG:45:ILE:HA	11:hh:135:THR:O	2.14	0.48
11:hh:24:GLU:HB3	11:hh:112:ILE:HG23	1.95	0.48
11:hh:133:TRP:CZ3	11:hh:135:THR:HG22	2.49	0.48
11:hi:37:LYS:HZ1	11:hi:74:MET:HG2	1.78	0.48
11:hk:75:ASN:ND2	11:hk:151:GLN:OE1	2.43	0.48
11:hl:124:THR:OG1	11:hm:77:GLU:O	2.27	0.48
11:hy:1:MET:HE3	11:hy:1:MET:HB2	1.68	0.48
12:iC:289:ARG:HB3	12:iC:372:VAL:HB	1.95	0.48
15:m2:94:ASN:HB3	15:m2:107:GLU:HG3	1.96	0.48
16:o6:260:GLU:HB2	16:o6:261:PRO:HD2	1.94	0.48
17:q3:185:VAL:HG12	17:q5:247:VAL:HG11	1.96	0.48
1:S0:41:PRO:HA	1:S5:24:ASN:HD22	1.78	0.48
1:S0:417:ASN:HA	1:S0:423:PRO:HA	1.95	0.48
1:S1:19:ASP:O	1:S3:33:GLN:NE2	2.44	0.48
1:S1:279:SER:HB2	1:S3:283:TRP:CD1	2.49	0.48
1:S2:382:ARG:HH22	1:S2:434:VAL:HB	1.78	0.48
1:S4:60:ILE:HD11	1:S6:58:LEU:HD13	1.94	0.48
1:S4:439:ILE:HG23	1:S8:515:TRP:CH2	2.48	0.48
1:S4:472:ARG:NH2	4:Wn:361:ASP:HB3	2.28	0.48
1:S5:212:PRO:HB2	1:S7:203:THR:HG22	1.96	0.48
1:S5:308:ILE:HB	1:S7:315:ILE:HG23	1.95	0.48
1:S5:417:ASN:O	1:S5:424:ARG:NH1	2.46	0.48
1:S7:167:GLN:CD	3:Vp:75:THR:HB	2.39	0.48
1:S7:173:ILE:HD12	1:S7:176:ILE:HG21	1.96	0.48
1:SO:115:SER:OG	1:SQ:100:TYR:OH	2.17	0.48
1:SO:333:THR:OG1	1:SO:335:ASN:OD1	2.20	0.48
1:Sv:61:PRO:HD3	1:Sv:74:LYS:HB3	1.95	0.48
1:Sx:5:THR:HG21	4:Wl:200:LEU:HB2	1.95	0.48
1:Sz:221:THR:HG23	1:Sz:224:TYR:H	1.79	0.48
2:T2:67:TYR:CD2	2:T2:84:ARG:HB3	2.48	0.48
2:T4:219:ILE:HG13	2:T4:234:GLU:HA	1.95	0.48
2:T7:50:VAL:HG12	2:T7:51:ALA:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T7:232:SER:HB3	2:T7:254:PHE:HD2	1.79	0.48
2:T8:215:LYS:HE2	2:T8:237:VAL:HG13	1.95	0.48
2:TF:248:GLU:HG3	2:TF:249:ILE:HG13	1.95	0.48
2:Te:100:ARG:NH2	2:Te:128:ASP:OD1	2.46	0.48
2:Th:43:GLY:O	2:Th:68:GLN:NE2	2.47	0.48
2:Ti:44:ASP:HB3	2:Ti:47:LYS:HE3	1.96	0.48
3:Up:32:ARG:NH1	3:Ur:144:ASN:OD1	2.47	0.48
3:Vu:193:TRP:CZ3	3:Vu:217:ARG:HB2	2.49	0.48
4:WK:186:TYR:HD2	4:WK:227:GLY:HA2	1.78	0.48
4:WK:303:PRO:O	4:WK:304:ILE:HG13	2.14	0.48
4:WK:451:ASP:HA	4:WK:600:ARG:HH12	1.78	0.48
4:Wk:309:LEU:HD22	4:Wk:321:ALA:HB2	1.95	0.48
4:Wk:339:GLU:HG3	4:Wk:340:VAL:HG13	1.95	0.48
4:Wm:195:HIS:C	4:Wm:197:GLY:H	2.22	0.48
4:Xl:344:VAL:HG12	4:Xl:349:TRP:H	1.78	0.48
4:XJ:361:ASP:H	4:XJ:366:PRO:HA	1.78	0.48
4:Xj:265:LEU:O	4:Xj:378:GLY:HA2	2.13	0.48
4:Xj:293:PHE:CE1	4:Xj:366:PRO:HB2	2.49	0.48
4:Xk:299:ILE:O	4:Xk:301:GLY:N	2.46	0.48
4:Xk:389:ASP:OD1	4:Xk:389:ASP:N	2.40	0.48
4:Xm:172:GLN:HG2	4:Xm:173:GLY:H	1.78	0.48
4:Xm:393:LEU:HD11	4:Xo:393:LEU:HB2	1.95	0.48
4:Xn:19:LEU:H	5:Yx:992:PRO:HB3	1.79	0.48
5:YX:329:ILE:HD11	5:YX:350:PHE:HE1	1.78	0.48
5:YX:999:THR:HG22	5:YX:1000:THR:O	2.13	0.48
5:YY:807:LEU:HD23	5:YY:807:LEU:H	1.79	0.48
5:Yx:329:ILE:HD11	5:Yx:350:PHE:HE1	1.78	0.48
5:Yx:935:LYS:HD2	5:Yx:954:GLU:HG2	1.96	0.48
5:Yy:714:TYR:CE2	5:Yy:723:VAL:HG21	2.49	0.48
6:Zb:132:ARG:HD2	6:Zb:191:LEU:HD21	1.94	0.48
6:aE:277:ASN:HB3	6:aE:291:LYS:HE2	1.95	0.48
6:aZ:261:ALA:O	6:aZ:266:ASN:ND2	2.35	0.48
7:b4:471:ALA:HA	7:b4:474:ILE:HG12	1.96	0.48
7:b4:601:ILE:HD12	7:b4:604:TYR:HB3	1.95	0.48
7:b6:412:GLU:OE1	7:b6:412:GLU:N	2.39	0.48
7:b6:446:THR:O	7:b6:554:ARG:NE	2.46	0.48
7:b7:225:LEU:HD13	7:b7:324:PHE:HB2	1.96	0.48
7:b9:591:TYR:HD2	7:b9:592:LEU:HD12	1.79	0.48
7:bN:383:LEU:HD11	7:bN:436:TYR:CD2	2.49	0.48
7:bN:394:VAL:HG11	7:bN:443:ILE:HD12	1.96	0.48
7:bO:383:LEU:HD11	7:bO:436:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bR:159:GLU:OE1	7:bR:167:TRP:NE1	2.37	0.48
7:cA:454:TYR:HB3	7:cA:467:TRP:CD1	2.49	0.48
7:cB:239:VAL:HG22	7:cB:280:ALA:HB3	1.95	0.48
7:cB:455:LYS:HG3	7:cB:502:VAL:HG13	1.96	0.48
7:cC:383:LEU:HD11	7:cC:436:TYR:CE1	2.48	0.48
7:cD:43:GLN:OE1	7:cD:79:ARG:NH1	2.46	0.48
7:cE:620:ARG:HB2	7:cE:622:GLU:HG3	1.94	0.48
7:cF:11:LYS:HE3	7:cF:13:THR:HG21	1.95	0.48
7:cF:222:VAL:HG22	7:cF:325:ALA:HB2	1.95	0.48
7:cF:654:LEU:HD13	7:cG:605:ARG:HD3	1.95	0.48
7:cK:642:PHE:CZ	7:cP:564:ILE:HD11	2.49	0.48
7:cN:511:GLN:OE1	7:cN:514:ARG:NH2	2.47	0.48
7:dT:66:MET:HG2	7:dT:468:VAL:HG21	1.95	0.48
7:dU:142:LYS:HE3	7:dU:215:LYS:O	2.13	0.48
7:dV:140:ILE:O	7:dV:141:LYS:NZ	2.47	0.48
8:eB:400:ASN:HD21	8:eB:406:PRO:HD3	1.78	0.48
8:eU:127:ARG:NH1	8:eU:271:GLU:OE1	2.46	0.48
8:f9:56:LEU:HD21	15:mT:11:ILE:HD12	1.96	0.48
8:f9:293:THR:OG1	8:f9:294:ASN:OD1	2.28	0.48
8:fS:104:SER:O	8:fS:316:GLY:HA2	2.13	0.48
8:fW:521:ARG:O	8:fW:533:ASP:HB2	2.13	0.48
8:fr:605:ASN:HB3	8:fr:608:LYS:HZ1	1.79	0.48
9:gE:12:VAL:HG21	12:iF:256:HIS:CE1	2.49	0.48
11:hK:114:ARG:HB3	11:hK:123:VAL:HG13	1.96	0.48
11:hM:48:LYS:HB2	11:hX:133:TRP:CZ2	2.49	0.48
11:hi:83:GLN:HA	11:hi:86:VAL:HG22	1.95	0.48
11:hk:22:GLN:HB2	11:hk:116:TYR:HE2	1.79	0.48
14:k3:1:MET:O	14:k3:4:THR:HG22	2.13	0.48
16:o1:213:PRO:HD2	16:o1:340:SER:O	2.14	0.48
16:pA:329:PHE:CE2	16:pA:339:PRO:HG3	2.47	0.48
1:S2:437:VAL:HG21	1:S3:408:HIS:CD2	2.48	0.48
1:S2:481:SER:N	1:S3:463:THR:OG1	2.44	0.48
1:S4:480:ARG:HD3	1:S6:462:ASN:OD1	2.13	0.48
1:S6:173:ILE:HG23	1:S8:173:ILE:HG12	1.95	0.48
1:S6:265:LEU:HD21	1:S8:263:VAL:HG11	1.96	0.48
1:SO:23:THR:OG1	1:SO:24:ASN:N	2.47	0.48
1:SO:85:LEU:O	1:SO:88:PRO:HD2	2.14	0.48
1:SQ:100:TYR:CE2	1:SQ:115:SER:HB2	2.49	0.48
1:Sv:281:LEU:HD12	1:Sz:281:LEU:HB3	1.95	0.48
1:Sv:386:ASN:OD1	1:Sv:389:ASN:N	2.45	0.48
2:T1:85:HIS:HB2	2:T1:109:PHE:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T5:61:ILE:HG13	2:T7:38:ILE:HG12	1.96	0.48
2:TF:116:ILE:HD13	2:TF:122:LEU:HB2	1.96	0.48
2:TH:176:GLU:HG3	2:TH:277:LYS:HG3	1.96	0.48
2:Te:7:LYS:HE3	2:Ti:53:GLY:HA3	1.95	0.48
2:Tg:50:VAL:HG12	2:Tg:51:ALA:H	1.78	0.48
2:Th:239:ARG:HB3	2:Th:249:ILE:HD12	1.96	0.48
3:UN:114:VAL:HG21	3:UN:129:VAL:HG22	1.96	0.48
3:UN:171:TYR:HB2	4:WJ:339:GLU:HB2	1.95	0.48
3:Uq:16:ASP:OD1	3:Uq:16:ASP:N	2.47	0.48
3:Ur:196:LEU:N	3:Ur:214:HIS:O	2.43	0.48
4:WJ:591:PRO:HA	4:WK:520:GLY:O	2.13	0.48
4:Wk:232:LEU:HG	4:Wk:234:GLN:H	1.79	0.48
4:Wl:12:ASP:C	5:YX:986:ARG:HH21	2.21	0.48
4:Wl:372:ASP:OD1	4:Wl:372:ASP:N	2.47	0.48
4:Wm:8:GLY:HA3	4:Wm:15:THR:HG23	1.94	0.48
4:Wm:251:VAL:HG22	4:Wo:162:VAL:HG21	1.95	0.48
4:XI:30:PHE:HE2	4:XK:26:ILE:HG13	1.79	0.48
4:XI:553:GLY:HA2	4:XJ:552:VAL:HB	1.96	0.48
4:XJ:11:VAL:HG22	4:XK:20:ARG:HG2	1.96	0.48
4:XJ:146:VAL:HG23	4:XJ:149:LYS:HG2	1.95	0.48
4:XJ:195:HIS:CE1	4:XJ:232:LEU:HD21	2.49	0.48
4:XJ:410:GLN:HG3	4:XK:408:VAL:H	1.79	0.48
4:Xm:65:GLY:O	4:Xo:45:SER:N	2.42	0.48
4:Xo:226:ASP:OD1	4:Xo:226:ASP:N	2.44	0.48
5:YC:470:ALA:HA	6:ZZ:57:ALA:H	1.79	0.48
5:YC:856:ASN:HB3	8:eB:495:PRO:HB3	1.95	0.48
5:YC:917:LYS:O	5:YC:1005:ARG:N	2.36	0.48
5:YX:300:LEU:HD13	5:YX:329:ILE:HD11	1.95	0.48
5:YX:900:ILE:HG21	6:Zb:311:TYR:HE1	1.79	0.48
5:YY:300:LEU:HG	5:YY:301:PRO:HD3	1.96	0.48
5:Yc:134:TYR:CZ	5:Yc:593:GLU:HG2	2.49	0.48
5:Yc:149:GLU:CD	5:Yc:149:GLU:H	2.22	0.48
5:Yx:61:TYR:CE2	6:aZ:156:LEU:HD11	2.49	0.48
5:Yx:200:TYR:OH	5:Yx:292:GLU:OE1	2.32	0.48
5:Yx:929:TYR:HD2	5:Yx:961:VAL:HB	1.79	0.48
5:Yy:398:SER:OG	5:Yy:399:ALA:N	2.42	0.48
6:ZZ:34:LYS:O	6:ZZ:291:LYS:NZ	2.46	0.48
6:ZZ:65:VAL:O	6:ZZ:69:THR:OG1	2.28	0.48
7:b3:256:PRO:HG2	7:b3:339:THR:H	1.79	0.48
7:b4:417:ILE:HD13	7:b4:417:ILE:H	1.77	0.48
7:b5:33:PHE:HA	7:b5:61:THR:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b5:400:ARG:HD3	7:b5:403:CYS:SG	2.53	0.48
7:bR:400:ARG:HD3	7:bR:403:CYS:SG	2.54	0.48
7:cA:135:ASP:HB3	7:cA:139:LYS:HB2	1.96	0.48
7:cB:70:ASN:OD1	7:cB:457:GLN:NE2	2.43	0.48
7:cD:486:GLN:NE2	11:hx:11:GLU:OE1	2.46	0.48
7:cI:31:GLY:HA3	7:cI:64:TYR:CD2	2.48	0.48
7:cO:406:LEU:HD22	7:cO:474:ILE:HG13	1.96	0.48
7:dU:154:ALA:HB1	7:dU:159:GLU:O	2.13	0.48
7:dU:368:VAL:O	7:dU:400:ARG:NH2	2.47	0.48
8:eW:543:THR:O	8:eW:597:TYR:OH	2.28	0.48
8:fR:605:ASN:HB3	8:fR:608:LYS:HZ1	1.79	0.48
8:fs:426:LEU:HD23	8:fs:657:PRO:HB2	1.95	0.48
8:fs:462:SER:O	8:fs:466:THR:HG23	2.13	0.48
11:hI:54:MET:HG3	17:q5:230:TYR:CE1	2.49	0.48
11:hK:46:VAL:HG22	11:hK:64:ARG:HE	1.79	0.48
11:hk:24:GLU:OE1	11:hk:33:THR:OG1	2.28	0.48
11:hx:114:ARG:HB3	11:hx:123:VAL:HG13	1.96	0.48
12:iD:313:ILE:O	12:iD:352:VAL:HA	2.14	0.48
15:nT:6:LYS:O	15:nT:125:GLN:NE2	2.47	0.48
16:o0:50:GLU:HB2	17:q3:94:GLN:HB3	1.95	0.48
16:o1:38:PHE:HB3	16:o1:39:PRO:HD3	1.95	0.48
16:o6:145:ASP:OD1	16:o6:145:ASP:N	2.45	0.48
16:o6:303:LYS:HE3	16:o6:307:LYS:HZ3	1.79	0.48
16:o6:332:LEU:HD13	17:q8:191:LEU:HD21	1.95	0.48
17:q3:92:MET:HE2	17:q3:108:THR:HA	1.96	0.48
1:S0:372:CYS:HB3	1:S0:375:TYR:HB3	1.95	0.48
1:S0:507:LEU:HB2	1:S7:425:LEU:HD21	1.95	0.48
1:S1:260:ARG:HD3	1:S3:262:VAL:HG23	1.96	0.48
1:S2:53:THR:HG21	1:SQ:352:ASP:HB3	1.96	0.48
1:S4:6:TYR:HD1	1:S4:7:GLN:HG2	1.78	0.48
1:S4:110:VAL:HG12	1:S4:111:ASN:H	1.79	0.48
1:S4:185:GLU:CD	1:S4:185:GLU:H	2.22	0.48
1:S8:8:HIS:ND1	1:S8:8:HIS:O	2.47	0.48
1:S8:47:VAL:HB	1:S8:48:PRO:HD3	1.95	0.48
1:SO:231:GLY:H	1:SO:243:VAL:HB	1.78	0.48
1:SO:255:SER:OG	1:SQ:263:VAL:O	2.22	0.48
1:SO:456:ASP:HA	1:SO:462:ASN:HD21	1.79	0.48
2:T2:43:GLY:O	2:T2:68:GLN:NE2	2.42	0.48
2:T2:64:THR:HA	2:T3:84:ARG:HE	1.78	0.48
2:Td:133:VAL:HG21	2:Td:137:LEU:HD13	1.96	0.48
3:Up:120:MET:HB3	3:Up:124:GLU:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vr:122:ALA:O	3:Vr:126:VAL:HG23	2.14	0.48
4:WJ:320:LEU:HA	4:WJ:357:SER:HB3	1.96	0.48
4:Wj:89:TYR:CE1	4:Wj:139:ALA:HA	2.49	0.48
4:Wj:96:ARG:HG3	4:Wj:132:ASP:HA	1.96	0.48
4:Wj:192:ARG:HG3	4:Wj:247:PHE:HE1	1.79	0.48
4:Wj:331:CYS:HB2	4:Wj:351:GLN:HE22	1.79	0.48
4:Wl:314:ASN:N	4:Wl:380:ILE:O	2.44	0.48
4:Wm:195:HIS:NE2	4:Wm:232:LEU:HD21	2.29	0.48
4:Wo:503:ASN:HA	4:Wo:512:PRO:HB3	1.95	0.48
4:XJ:255:ARG:HH21	4:XK:249:ASP:HB2	1.79	0.48
4:XK:263:ILE:HG22	4:XK:381:ILE:HB	1.96	0.48
4:Xl:240:ASP:OD1	4:Xl:240:ASP:N	2.46	0.48
5:YX:727:PHE:O	5:YX:731:SER:HB3	2.14	0.48
5:YY:176:ILE:HD13	5:YY:176:ILE:H	1.79	0.48
5:Yc:586:LEU:HD11	5:Yc:594:ILE:HD13	1.95	0.48
5:Yx:403:ILE:HG23	5:Yx:417:PHE:HB3	1.96	0.48
5:Yx:406:LEU:HD13	5:Yx:413:TRP:CE2	2.48	0.48
5:Yy:737:THR:OG1	8:fW:215:VAL:HG11	2.13	0.48
5:Yy:894:THR:O	5:Yy:894:THR:OG1	2.30	0.48
6:aa:228:ASN:HB3	6:aa:231:TRP:CD1	2.48	0.48
7:b3:383:LEU:HD11	7:b3:436:TYR:CE2	2.49	0.48
7:b7:44:VAL:HG11	7:b7:50:LEU:HB2	1.96	0.48
7:b7:103:ILE:HD13	7:b7:182:ILE:HG22	1.96	0.48
7:b7:494:TYR:HE2	7:b7:528:THR:HG21	1.79	0.48
7:cC:494:TYR:HE2	7:cC:528:THR:HG21	1.78	0.48
7:cJ:505:LEU:HD22	7:cJ:533:TYR:HD2	1.79	0.48
7:cJ:550:ARG:HB3	7:cJ:553:VAL:HG12	1.94	0.48
7:cK:460:LYS:H	7:cK:460:LYS:HG3	1.42	0.48
7:cL:368:VAL:HG12	7:cL:370:VAL:HG22	1.94	0.48
7:cM:264:THR:O	7:cM:266:LYS:N	2.46	0.48
7:cN:446:THR:HG22	7:cN:542:THR:HG21	1.96	0.48
7:cP:161:PRO:O	7:cP:186:LYS:HB2	2.13	0.48
7:dS:100:GLU:OE2	7:dS:186:LYS:NZ	2.46	0.48
7:dS:450:ILE:HD13	7:dS:522:ILE:HG12	1.96	0.48
7:dS:481:THR:HG23	7:dS:496:ARG:HD3	1.96	0.48
7:dS:518:TYR:CZ	7:dT:8:ILE:HD11	2.48	0.48
7:dV:30:ALA:HB2	7:dV:81:VAL:HG13	1.95	0.48
7:dW:538:ASP:N	7:dW:538:ASP:OD1	2.45	0.48
7:dZ:271:TYR:HE2	7:dZ:304:ILE:HG13	1.78	0.48
8:eB:135:ALA:C	8:eB:137:ASP:H	2.21	0.48
8:eB:337:GLN:HG2	8:f9:251:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eW:135:ALA:C	8:eW:137:ASP:H	2.20	0.48
8:eW:315:GLY:HA2	15:m5:129:SER:HB2	1.95	0.48
8:fS:401:LEU:HA	8:fW:340:VAL:HG23	1.96	0.48
8:fS:525:ASN:O	8:fS:528:THR:OG1	2.31	0.48
8:fr:327:GLU:O	8:fr:331:ILE:HG12	2.13	0.48
9:gE:397:SER:HB2	9:gG:410:GLU:HG2	1.96	0.48
9:gG:85:HIS:CD2	9:gG:97:LEU:HD11	2.49	0.48
9:gG:416:HIS:HE1	9:gH:411:ARG:HA	1.79	0.48
10:gd:69:VAL:N	10:gd:72:LYS:O	2.33	0.48
11:hK:6:VAL:HG21	11:hz:58:ILE:HD11	1.96	0.48
11:he:23:VAL:HG11	11:he:39:THR:HG21	1.96	0.48
11:hj:57:LYS:HB3	11:hj:57:LYS:HE2	1.70	0.48
11:hk:64:ARG:HH21	11:hl:89:GLN:HG2	1.79	0.48
11:hm:104:PRO:HA	11:hm:107:TYR:CE2	2.48	0.48
11:hs:61:ALA:HA	11:hv:133:TRP:CH2	2.48	0.48
12:iC:100:LYS:HB3	16:o0:194:ARG:NH1	2.29	0.48
16:o1:82:SER:O	16:o1:83:ASN:HB2	2.14	0.48
16:pB:249:TYR:HB2	16:pB:250:LEU:HD22	1.96	0.48
16:pB:314:CYS:HA	16:pB:350:GLU:HA	1.94	0.48
17:q3:200:GLN:NE2	17:q3:202:ASN:OD1	2.47	0.48
17:q7:199:ILE:HG12	17:q7:218:MET:SD	2.53	0.48
1:S0:85:LEU:HD22	1:S5:84:ARG:NH1	2.29	0.47
1:S3:175:GLN:HB3	1:S3:187:ASP:HB2	1.96	0.47
1:S4:405:ARG:NH1	1:S4:410:THR:HG22	2.29	0.47
1:S4:406:GLY:O	1:S4:410:THR:HG23	2.13	0.47
1:S7:5:THR:HG21	4:Xm:200:LEU:HD22	1.95	0.47
1:S7:29:ILE:HG22	1:S7:30:THR:H	1.79	0.47
1:SO:36:ILE:O	1:SO:40:SER:OG	2.29	0.47
1:SO:473:LYS:NZ	4:Xo:362:GLU:HA	2.28	0.47
2:T1:194:ARG:HH21	2:T1:259:ASN:HA	1.78	0.47
2:T7:46:ARG:NH2	2:T7:66:TYR:OH	2.47	0.47
2:T7:286:VAL:HG21	2:T9:134:SER:H	1.79	0.47
2:Td:82:GLY:O	2:Th:63:ALA:N	2.47	0.47
2:Tf:44:ASP:HB3	2:Tf:47:LYS:HG3	1.95	0.47
3:Uq:40:ILE:HG13	3:Us:168:LEU:HD21	1.95	0.47
3:Uq:55:ALA:O	3:Uq:59:VAL:HG23	2.13	0.47
3:Uq:120:MET:HE1	3:Uq:128:LYS:HE3	1.96	0.47
3:VM:7:LYS:HB3	4:XK:318:GLN:HE21	1.79	0.47
3:VM:17:PHE:CD1	3:VM:47:PHE:HB2	2.49	0.47
3:Vp:57:ASN:HB2	3:Vr:164:GLN:NE2	2.29	0.47
4:WI:451:ASP:HA	4:WI:600:ARG:HH12	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:116:THR:HB	4:WJ:121:ALA:HB2	1.95	0.47
4:WJ:251:VAL:HG22	4:WK:162:VAL:HG21	1.95	0.47
4:WJ:372:ASP:N	4:WJ:372:ASP:OD1	2.47	0.47
4:Wm:253:GLN:HB2	4:Wm:255:ARG:HE	1.78	0.47
4:Wm:591:PRO:HA	4:Wo:520:GLY:O	2.13	0.47
4:XI:551:ILE:HG13	4:XK:568:LYS:HG2	1.95	0.47
4:XJ:289:LYS:HD2	4:XJ:372:ASP:HB3	1.96	0.47
4:XK:504:ASN:ND2	4:XK:517:GLY:O	2.47	0.47
4:Xj:152:ASP:OD1	4:Xn:118:LYS:NZ	2.44	0.47
4:Xk:18:TYR:CZ	4:Xk:21:LYS:HG2	2.48	0.47
4:Xk:302:GLU:HG3	4:Xk:303:PRO:HD2	1.95	0.47
4:Xl:372:ASP:OD1	4:Xl:372:ASP:N	2.47	0.47
4:Xm:542:LEU:HD11	4:Xo:569:TYR:HE2	1.78	0.47
5:YC:913:ILE:HB	6:ZD:328:ILE:HD13	1.94	0.47
5:YX:364:VAL:HG21	5:YX:396:ILE:HG12	1.94	0.47
5:YX:447:ASN:ND2	6:Za:73:THR:HG23	2.29	0.47
5:Yc:403:ILE:CG2	5:Yc:417:PHE:HB3	2.44	0.47
5:Yx:300:LEU:HB2	5:Yx:350:PHE:CE1	2.48	0.47
5:Yx:799:GLU:HB3	5:Yx:810:THR:HG23	1.96	0.47
6:Za:87:ASP:HB3	6:Za:209:VAL:HG13	1.95	0.47
6:aE:197:ASP:OD2	6:aE:222:ARG:NH1	2.47	0.47
7:b3:379:ALA:HB2	7:b3:454:TYR:HE2	1.79	0.47
7:b4:391:LYS:HG2	7:b4:443:ILE:HD13	1.96	0.47
7:b5:34:GLN:HE21	7:b5:230:LEU:HD12	1.79	0.47
7:b6:137:ASP:OD1	7:b6:137:ASP:N	2.47	0.47
7:b7:8:ILE:HD11	7:cA:569:LYS:HA	1.96	0.47
7:b8:655:THR:HB	7:b9:19:VAL:HG21	1.96	0.47
7:bO:494:TYR:CZ	7:dT:569:LYS:HD3	2.49	0.47
7:bO:564:ILE:HD11	7:cM:642:PHE:HE2	1.79	0.47
7:bP:117:THR:HG23	7:bP:127:THR:HG22	1.96	0.47
7:bP:455:LYS:NZ	7:bP:473:ASP:OD2	2.47	0.47
7:bQ:494:TYR:OH	7:bQ:528:THR:OG1	2.22	0.47
7:cA:69:MET:O	7:cA:73:GLN:HG2	2.14	0.47
7:cB:614:THR:C	7:cB:616:SER:H	2.22	0.47
7:cG:205:MET:HE2	7:cG:205:MET:HB3	1.84	0.47
7:cI:478:CYS:O	7:cI:555:ARG:NH1	2.45	0.47
7:cK:29:LEU:O	7:cK:80:VAL:HA	2.13	0.47
7:cL:108:SER:O	7:cL:177:GLY:HA2	2.13	0.47
7:cL:456:TYR:HB3	7:cL:503:ILE:HG12	1.96	0.47
7:cM:412:GLU:CD	7:cM:412:GLU:H	2.22	0.47
7:cN:368:VAL:O	7:cN:400:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cP:368:VAL:O	7:cP:400:ARG:NH2	2.47	0.47
7:dT:369:ASP:N	7:dT:369:ASP:OD1	2.45	0.47
7:dU:41:ILE:HD13	7:dU:81:VAL:HB	1.96	0.47
7:dW:175:SER:OG	7:dW:176:SER:N	2.46	0.47
8:eU:327:GLU:O	8:eU:331:ILE:HG12	2.14	0.47
8:f9:543:THR:HG22	8:f9:552:LYS:H	1.79	0.47
8:fA:543:THR:CG2	8:fA:552:LYS:H	2.26	0.47
8:fB:538:VAL:HG11	8:fB:558:PHE:HE1	1.79	0.47
8:fR:110:ILE:HD12	8:fR:302:GLU:HA	1.94	0.47
8:fR:134:TYR:CE1	8:fR:142:PRO:HG3	2.48	0.47
8:fR:472:ASP:C	8:fR:474:SER:H	2.22	0.47
8:fS:555:ILE:HB	8:fS:592:ILE:HD13	1.96	0.47
8:fr:191:ASN:HB3	8:fr:275:THR:O	2.13	0.47
8:fs:544:ASP:HB2	8:fs:576:ASP:OD1	2.14	0.47
11:h1:93:ALA:O	11:h1:100:THR:OG1	2.29	0.47
11:hK:1:MET:HE1	11:hZ:54:MET:HE2	1.95	0.47
11:hL:45:ILE:HA	11:hM:135:THR:O	2.13	0.47
11:hl:1:MET:HB2	11:hl:1:MET:HE3	1.66	0.47
11:ho:83:GLN:HA	11:ho:86:VAL:HG22	1.95	0.47
11:hr:117:ALA:HB3	11:hr:122:THR:HB	1.96	0.47
11:hs:51:VAL:HG12	11:hw:150:ILE:HG21	1.95	0.47
11:hs:54:MET:HE3	11:hw:20:LEU:HA	1.96	0.47
11:hw:132:LEU:HA	11:hw:158:ALA:O	2.14	0.47
11:hZ:48:LYS:HG3	11:hZ:59:ASN:HB3	1.96	0.47
11:hZ:70:THR:HG22	11:hZ:156:THR:HG22	1.95	0.47
12:iD:62:THR:HG23	12:iD:63:LYS:HG3	1.94	0.47
16:o2:253:TRP:CG	16:o2:262:LEU:HD13	2.49	0.47
16:o2:289:ASN:OD1	16:pB:194:ARG:NE	2.47	0.47
1:S2:141:VAL:HG22	1:S3:139:ASN:HB2	1.95	0.47
1:S5:193:LEU:HD13	1:S7:206:GLU:HG3	1.96	0.47
1:S7:213:TYR:O	1:S7:217:ASN:ND2	2.47	0.47
1:S8:451:PHE:CZ	1:S8:471:THR:HG22	2.47	0.47
1:SO:67:ILE:HD13	1:SO:84:ARG:HG3	1.96	0.47
1:SO:466:SER:HB3	1:SO:468:PHE:CE2	2.49	0.47
1:Sx:251:ASN:O	1:Sz:260:ARG:NH1	2.42	0.47
1:Sz:263:VAL:HG12	1:Sz:278:SER:HB3	1.96	0.47
2:T1:247:ASP:OD2	2:T1:251:ASN:ND2	2.45	0.47
2:Tf:277:LYS:NZ	2:Th:281:THR:O	2.34	0.47
2:Ti:207:GLN:HE21	2:Ti:211:GLY:HA2	1.78	0.47
3:UL:13:ARG:HG2	3:UL:14:LEU:H	1.78	0.47
3:UM:7:LYS:HB3	4:WK:318:GLN:NE2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UN:14:LEU:O	3:UN:16:ASP:N	2.47	0.47
3:UN:147:LYS:O	3:UN:157:GLU:N	2.47	0.47
3:Uq:16:ASP:HB3	3:Uq:42:GLN:HG3	1.95	0.47
3:Uq:173:THR:HB	4:Wo:339:GLU:HG2	1.97	0.47
3:Us:62:PHE:CD1	3:Uu:190:TYR:HB3	2.50	0.47
3:VM:31:ASN:HD21	3:VN:191:GLY:HA2	1.78	0.47
3:VM:82:VAL:HG23	3:VM:187:LYS:HE3	1.96	0.47
3:Vr:149:HIS:CD2	3:Vr:150:PRO:HD2	2.48	0.47
4:Wl:217:GLU:HB2	4:Wl:222:LEU:HB2	1.96	0.47
4:Wl:221:GLU:N	4:Wl:221:GLU:OE1	2.47	0.47
4:WJ:113:SER:OG	4:WJ:114:GLY:N	2.47	0.47
4:WJ:323:THR:HG23	4:WJ:358:VAL:C	2.39	0.47
4:Wj:453:ILE:HD12	4:Wn:453:ILE:HG21	1.96	0.47
4:Wk:60:LEU:HD21	4:Wk:79:ILE:HG22	1.95	0.47
4:Wk:407:TYR:CE1	4:Wo:407:TYR:HB2	2.48	0.47
4:Wk:468:ASN:HB3	4:Wk:471:THR:HG23	1.96	0.47
4:Wl:464:VAL:HG12	4:Wn:429:GLY:HA2	1.96	0.47
4:Wm:194:LYS:HG2	4:Wm:198:ASN:HD22	1.78	0.47
4:Xl:130:PHE:CD2	4:Xl:151:ILE:HD11	2.48	0.47
4:Xl:312:ARG:HD3	4:Xl:317:LEU:HD12	1.96	0.47
4:Xl:464:VAL:HG12	4:Xn:429:GLY:HA2	1.94	0.47
4:Xl:469:PRO:HA	4:Xl:472:TYR:CZ	2.49	0.47
4:Xm:320:LEU:HA	4:Xm:357:SER:HB3	1.96	0.47
4:Xo:50:LYS:HD2	4:Xo:66:LYS:HE3	1.97	0.47
4:Xo:89:TYR:O	4:Xo:91:LYS:HG2	2.14	0.47
5:YY:369:ASP:OD1	5:YY:436:THR:OG1	2.22	0.47
5:Yc:86:ALA:HB3	5:Yc:89:PHE:HD2	1.79	0.47
5:Yy:141:THR:HG22	5:Yy:546:GLU:HB2	1.96	0.47
5:Yy:380:ILE:HD13	5:Yy:429:PRO:HA	1.95	0.47
6:Zc:191:LEU:HD13	6:Zc:242:VAL:HG12	1.95	0.47
6:aE:198:VAL:HG13	6:aE:202:ARG:HG3	1.96	0.47
6:aa:195:PRO:O	6:aa:199:SER:OG	2.26	0.47
6:ab:19:GLU:O	6:ab:23:ASN:ND2	2.47	0.47
7:b3:202:GLU:OE1	7:b3:203:ALA:N	2.40	0.47
7:b7:400:ARG:HD3	7:b7:403:CYS:SG	2.54	0.47
7:b8:264:THR:O	7:b8:266:LYS:N	2.47	0.47
7:bO:46:ASN:HD22	7:bO:47:GLU:H	1.61	0.47
7:bP:521:ALA:HB1	7:bP:541:ALA:HA	1.96	0.47
7:bR:575:LEU:H	7:bR:575:LEU:HD12	1.79	0.47
7:bY:209:ASP:OD1	7:bY:209:ASP:N	2.45	0.47
7:cE:467:TRP:CZ3	7:cF:199:GLU:HB2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cG:240:SER:OG	7:cG:243:ASP:OD1	2.32	0.47
7:cH:406:LEU:HD22	7:cH:474:ILE:HG13	1.96	0.47
7:cJ:639:THR:HB	7:cO:624:VAL:HG12	1.95	0.47
7:cM:159:GLU:O	7:cM:162:THR:N	2.46	0.47
7:cN:368:VAL:HG12	7:cN:370:VAL:HG22	1.95	0.47
7:cO:383:LEU:HD11	7:cO:436:TYR:CE1	2.48	0.47
7:cP:576:ASN:HD22	7:cP:618:ILE:HG23	1.79	0.47
7:dS:515:ASP:OD1	7:dT:7:GLY:HA3	2.13	0.47
7:dT:94:PRO:HD3	7:dT:222:VAL:O	2.14	0.47
7:dW:43:GLN:NE2	7:dW:77:ASP:OD1	2.47	0.47
7:dW:378:CYS:HB2	7:dW:410:PRO:HA	1.96	0.47
8:eU:58:ASP:OD2	15:m5:47:ARG:NH2	2.47	0.47
8:eW:388:GLN:O	8:eW:388:GLN:NE2	2.47	0.47
8:f9:215:VAL:HG23	8:f9:245:VAL:HG13	1.97	0.47
8:fB:592:ILE:HG22	8:fB:604:TRP:HB2	1.95	0.47
11:hL:88:TRP:CE2	11:hL:134:PRO:HD3	2.49	0.47
11:he:112:ILE:HD11	11:he:126:GLU:CD	2.39	0.47
11:hg:23:VAL:HG22	11:hg:36:CYS:SG	2.55	0.47
11:hi:22:GLN:HB2	11:hi:116:TYR:HE1	1.78	0.47
11:hn:70:THR:HG22	11:hn:156:THR:HG22	1.96	0.47
11:hn:120:ALA:HB2	11:ht:99:ILE:O	2.15	0.47
11:ho:21:PHE:CG	11:hp:142:LEU:HD23	2.49	0.47
11:hy:23:VAL:HG22	11:hy:36:CYS:SG	2.55	0.47
14:k7:4:THR:OG1	16:o0:78:ARG:NH2	2.47	0.47
16:o2:259:ILE:HG22	16:pB:303:LYS:HG2	1.95	0.47
16:o6:195:SER:O	16:o6:196:MET:HB2	2.15	0.47
17:q3:7:PHE:HA	17:q7:123:LEU:HD13	1.95	0.47
17:q4:216:PHE:CE2	17:q4:248:MET:HG3	2.49	0.47
1:S0:85:LEU:HD22	1:S5:84:ARG:HH12	1.79	0.47
1:S0:185:GLU:O	1:S7:192:GLN:NE2	2.47	0.47
1:S1:100:TYR:CE2	1:S2:113:GLU:HA	2.49	0.47
1:S2:134:SER:HB3	1:S2:142:ILE:HD11	1.96	0.47
1:S4:145:SER:HB3	1:S4:158:THR:HG21	1.95	0.47
1:S6:446:LYS:H	1:S8:503:ASN:CG	2.22	0.47
1:S7:5:THR:HG21	4:Xm:200:LEU:HD13	1.97	0.47
1:Sv:96:GLY:N	1:Sz:97:LEU:HB3	2.29	0.47
1:Sv:515:TRP:CD1	1:Sx:440:GLN:HB3	2.49	0.47
2:T5:18:ALA:O	2:T5:23:ILE:HG12	2.15	0.47
2:T6:36:ASN:O	2:T6:40:ASN:ND2	2.31	0.47
2:TH:128:ASP:OD2	2:TH:158:SER:HB3	2.14	0.47
2:Ti:172:GLU:OE2	2:Ti:197:TYR:OH	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UM:130:ARG:HE	3:UM:148:ASP:CG	2.21	0.47
3:Uq:14:LEU:O	3:Uq:16:ASP:N	2.48	0.47
3:Uq:17:PHE:O	3:Us:13:ARG:NH2	2.46	0.47
3:Uq:73:ASN:HD21	3:Uq:215:PHE:HE2	1.61	0.47
3:Uq:84:GLN:HB2	3:Uq:186:SER:HB3	1.96	0.47
3:VL:43:LEU:HD11	3:VM:141:THR:HG22	1.95	0.47
3:Vp:152:ASP:OD1	3:Vp:153:GLY:N	2.47	0.47
3:Vq:35:VAL:HG13	3:Vq:58:ASP:HB2	1.97	0.47
4:WI:309:LEU:HD22	4:WI:321:ALA:HB2	1.96	0.47
4:WJ:107:VAL:HG23	4:WJ:126:ILE:HB	1.97	0.47
4:WK:450:PHE:HZ	4:WK:478:TRP:HZ2	1.61	0.47
4:WK:562:SER:C	4:WK:564:PRO:HD3	2.39	0.47
4:Wj:362:GLU:HG3	4:Wj:363:ASN:H	1.80	0.47
4:Wk:99:PHE:HA	4:Wo:138:CYS:SG	2.54	0.47
4:Wk:330:HIS:CE1	4:Wk:355:ASP:HB2	2.49	0.47
4:XI:138:CYS:HB3	4:XI:142:ARG:HB3	1.97	0.47
4:XI:517:GLY:N	4:XK:594:THR:OG1	2.47	0.47
4:Xj:463:ALA:HB2	4:XI:459:ILE:HD11	1.95	0.47
4:Xm:542:LEU:HD12	4:Xo:542:LEU:HD12	1.96	0.47
5:YC:149:GLU:H	5:YC:149:GLU:CD	2.22	0.47
5:YC:180:ILE:HD11	5:YC:532:ALA:HB2	1.96	0.47
5:YC:855:ILE:HG13	5:YC:856:ASN:H	1.79	0.47
5:YX:749:LYS:HA	5:YX:753:ASN:HA	1.96	0.47
5:YY:251:ASP:OD1	5:YY:252:LYS:NZ	2.40	0.47
5:YY:404:TYR:CD2	5:YY:415:ARG:HB3	2.49	0.47
5:Yc:59:LEU:HD21	5:Yc:69:PHE:CD1	2.49	0.47
5:Yc:61:TYR:CE2	6:aD:156:LEU:HD11	2.49	0.47
5:Yc:957:PRO:O	5:Yc:958:MET:HG2	2.14	0.47
5:Yx:92:SER:OG	5:Yx:93:ASP:N	2.48	0.47
5:Yy:1025:PRO:O	5:Yy:1026:THR:HG22	2.14	0.47
6:Za:71:MET:HG2	6:Za:309:MET:HE1	1.96	0.47
6:Za:195:PRO:O	6:Za:199:SER:OG	2.30	0.47
6:aD:202:ARG:HB3	6:aD:209:VAL:HG21	1.96	0.47
6:aa:275:ILE:HA	6:aa:309:MET:HA	1.96	0.47
7:b4:346:SER:O	7:b4:349:GLU:N	2.45	0.47
7:b5:414:VAL:HG23	7:b5:422:ALA:HB1	1.94	0.47
7:b7:417:ILE:HD13	7:b7:417:ILE:H	1.80	0.47
7:b9:614:THR:C	7:b9:616:SER:H	2.22	0.47
7:bN:564:ILE:HD11	7:cL:642:PHE:CZ	2.49	0.47
7:bY:275:THR:OG1	7:bY:276:ASP:N	2.47	0.47
7:cA:526:THR:OG1	7:cA:527:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cA:638:ILE:HG12	7:cJ:623:PHE:HB3	1.96	0.47
7:cE:477:LEU:HD23	7:cE:535:LEU:HD12	1.96	0.47
7:cG:510:ARG:HG2	7:cG:511:GLN:H	1.79	0.47
7:cH:57:PRO:HG3	7:cH:65:PHE:CD1	2.49	0.47
7:cK:450:ILE:HD13	7:cK:522:ILE:HG12	1.96	0.47
7:cL:254:ILE:HD11	7:cL:261:ARG:HB2	1.96	0.47
7:cM:44:VAL:HG11	7:cM:50:LEU:HB2	1.95	0.47
7:cM:451:ASP:OD2	7:cM:470:LEU:HB3	2.14	0.47
7:cO:510:ARG:H	7:cO:513:GLN:HE21	1.61	0.47
7:cP:510:ARG:N	7:cP:513:GLN:OE1	2.43	0.47
7:dS:380:GLY:HA3	16:pA:14:LYS:NZ	2.29	0.47
7:dU:209:ASP:OD1	7:dU:209:ASP:N	2.45	0.47
7:dU:518:TYR:CE2	7:dU:539:LYS:HD3	2.49	0.47
7:dV:634:SER:O	15:m6:102:TYR:HB3	2.14	0.47
8:eB:595:ILE:HG22	8:eB:602:ILE:HA	1.95	0.47
8:eU:428:LYS:O	8:eU:474:SER:HB3	2.13	0.47
8:eU:521:ARG:O	8:eU:533:ASP:HB2	2.14	0.47
8:fB:213:SER:HB2	8:fB:215:VAL:HG12	1.96	0.47
8:fB:257:ILE:HG22	8:fB:258:GLY:H	1.78	0.47
8:fB:425:ALA:HB2	8:fB:476:ILE:HD13	1.96	0.47
8:fS:63:ASN:ND2	8:fW:60:LEU:HB3	2.29	0.47
8:fS:275:THR:OG1	8:fS:276:ASN:N	2.46	0.47
8:fS:400:ASN:H	8:fW:341:THR:HG22	1.80	0.47
8:fU:400:ASN:HD21	8:fU:406:PRO:HG3	1.79	0.47
8:fr:106:ALA:H	8:fr:169:GLN:HB3	1.79	0.47
9:gE:123:ARG:HH21	9:gH:69:ILE:HD11	1.79	0.47
11:hI:23:VAL:HG11	11:hI:39:THR:HG21	1.96	0.47
11:hL:140:LEU:HD11	11:hL:151:GLN:HG2	1.96	0.47
11:hM:41:LEU:HD13	11:hX:142:LEU:HD22	1.96	0.47
11:hg:23:VAL:HG11	11:hg:39:THR:HG21	1.95	0.47
11:hi:115:GLN:HG3	11:ht:79:HIS:CE1	2.49	0.47
11:hm:41:LEU:HG	11:hm:127:ILE:HD13	1.96	0.47
11:hq:19:ASN:OD1	11:hq:19:ASN:N	2.47	0.47
11:hy:83:GLN:HA	11:hy:86:VAL:HG22	1.96	0.47
11:hz:132:LEU:HA	11:hz:158:ALA:O	2.15	0.47
12:iC:264:PRO:HB2	12:iC:290:ASN:HB3	1.96	0.47
12:iC:297:ARG:NH1	13:jb:587:THR:OG1	2.47	0.47
14:kV:94:TYR:CD1	14:kV:156:TYR:HB3	2.49	0.47
1:S0:84:ARG:HG2	1:S7:85:LEU:HD13	1.96	0.47
1:S1:473:LYS:HZ3	4:Xn:362:GLU:HA	1.79	0.47
1:S1:515:TRP:CD1	1:S2:440:GLN:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:449:GLY:HA2	1:S3:484:THR:HG22	1.95	0.47
1:S4:61:PRO:HD3	1:S4:74:LYS:HB3	1.95	0.47
1:S8:310:ASN:OD1	1:S8:311:GLY:N	2.46	0.47
1:SP:340:THR:HG22	1:SP:341:ILE:HG12	1.96	0.47
1:SP:466:SER:HB3	1:SP:468:PHE:CE2	2.50	0.47
1:Sv:289:GLN:N	1:Sv:294:GLN:OE1	2.47	0.47
1:Sv:308:ILE:HD12	1:Sx:315:ILE:HG23	1.96	0.47
1:Sx:144:ILE:HG23	1:Sx:161:THR:HG21	1.95	0.47
1:Sz:310:ASN:OD1	1:Sz:311:GLY:N	2.46	0.47
2:T6:44:ASP:HB3	2:T6:47:LYS:HG3	1.95	0.47
2:Th:201:LYS:NZ	2:Th:220:ASN:OD1	2.38	0.47
3:UL:82:VAL:HG23	3:UL:187:LYS:HE3	1.96	0.47
3:UN:7:LYS:HB3	4:WI:318:GLN:NE2	2.29	0.47
3:Vp:56:ILE:HG21	3:Vt:55:ALA:HB1	1.96	0.47
3:Vp:125:PHE:O	3:Vp:129:VAL:HG23	2.13	0.47
3:Vq:40:ILE:HA	3:Vq:43:LEU:HD12	1.95	0.47
3:Vr:70:ILE:HA	3:Vr:215:PHE:O	2.13	0.47
4:WJ:464:VAL:HG11	4:WK:422:LEU:HD21	1.95	0.47
4:WK:428:ILE:HG21	4:WK:599:ILE:HD13	1.96	0.47
4:Wj:223:VAL:HB	4:Wj:224:PRO:HD3	1.96	0.47
4:Wj:326:MET:HE3	4:Wl:279:SER:HB2	1.96	0.47
4:Wj:399:ILE:HD12	4:Wn:399:ILE:HG12	1.96	0.47
4:Wk:532:LEU:HD11	4:Wm:533:PRO:HD2	1.95	0.47
4:Wm:77:VAL:HG23	4:Wm:107:VAL:HG12	1.97	0.47
4:Wn:357:SER:O	4:Wn:371:PHE:HA	2.15	0.47
4:Wo:93:ILE:HG12	4:Wo:135:LEU:HG	1.95	0.47
4:Wo:329:PHE:HB3	4:Wo:332:VAL:HB	1.94	0.47
4:XI:129:ARG:HG3	4:XI:130:PHE:H	1.80	0.47
4:XI:137:TYR:HA	4:XI:143:TRP:HD1	1.79	0.47
4:Xk:407:TYR:CZ	4:Xo:407:TYR:HD2	2.33	0.47
4:Xk:460:TYR:HE1	4:Xm:458:THR:HG23	1.79	0.47
4:Xl:208:GLU:O	4:Xl:233:ARG:NH2	2.47	0.47
4:Xo:303:PRO:O	4:Xo:304:ILE:HG13	2.14	0.47
5:YC:924:GLY:HA3	5:YC:969:TYR:OH	2.14	0.47
5:YX:4:LYS:NZ	5:YX:91:GLN:O	2.33	0.47
5:YX:183:VAL:HA	5:YX:210:LYS:HE3	1.96	0.47
5:YX:188:ASN:OD1	6:Za:286:ASN:ND2	2.47	0.47
5:YX:914:ASN:HB3	5:YX:916:TYR:CE1	2.49	0.47
5:Yc:110:PHE:HB3	5:Yc:619:LEU:HD11	1.96	0.47
5:Yc:403:ILE:HD13	5:Yc:501:PHE:HE2	1.80	0.47
5:Yc:991:SER:N	5:Yc:992:PRO:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:450:PHE:CD1	5:Yy:453:ASP:HB2	2.50	0.47
5:Yy:712:ASN:HD21	5:Yy:720:ARG:HG3	1.78	0.47
6:Zc:311:TYR:OH	6:Zc:313:GLU:OE1	2.24	0.47
6:aD:19:GLU:OE2	6:aD:23:ASN:ND2	2.34	0.47
6:aE:134:LEU:HD11	6:aE:189:GLU:HB2	1.96	0.47
6:aa:54:VAL:HG23	6:ac:5:SER:HA	1.96	0.47
6:aa:263:LEU:HB2	6:aa:266:ASN:HB2	1.97	0.47
6:ab:43:ARG:HD2	6:ab:74:HIS:ND1	2.30	0.47
6:ab:202:ARG:HB3	6:ab:209:VAL:HG21	1.96	0.47
7:b0:485:SER:HB3	7:b0:496:ARG:HD3	1.96	0.47
7:b8:118:VAL:HB	7:b8:126:GLU:HB3	1.96	0.47
7:bN:199:GLU:OE2	7:bN:200:ASN:ND2	2.35	0.47
7:bQ:131:ILE:HD13	7:bQ:140:ILE:HG21	1.96	0.47
7:bR:24:THR:N	7:bR:483:ASN:OD1	2.47	0.47
7:bY:400:ARG:HD3	7:bY:403:CYS:SG	2.54	0.47
7:cB:206:THR:HA	7:cB:211:GLN:HE21	1.78	0.47
7:cD:90:LYS:NZ	7:cD:190:ASP:OD1	2.46	0.47
7:cE:386:ALA:O	7:cE:390:GLN:NE2	2.47	0.47
7:cE:400:ARG:HD3	7:cE:403:CYS:SG	2.54	0.47
7:cG:264:THR:O	7:cG:266:LYS:N	2.47	0.47
7:cI:131:ILE:HD11	7:cI:171:ILE:HD13	1.95	0.47
7:cI:438:ASP:OD1	7:cI:438:ASP:N	2.46	0.47
7:cJ:430:ARG:NH2	7:cJ:443:ILE:O	2.47	0.47
7:dT:246:LYS:HB2	7:dT:250:ALA:HB2	1.96	0.47
7:dT:430:ARG:HG3	7:dT:522:ILE:HD11	1.96	0.47
7:dV:471:ALA:HA	7:dV:474:ILE:HG12	1.96	0.47
7:dZ:43:GLN:NE2	7:dZ:77:ASP:OD1	2.44	0.47
8:eB:112:LEU:HB3	8:eB:300:ILE:HG22	1.95	0.47
8:eU:108:THR:HG23	8:eU:167:LEU:HB2	1.97	0.47
8:eW:30:LYS:NZ	8:eW:58:ASP:OD1	2.40	0.47
8:fR:339:CYS:SG	8:fR:400:ASN:ND2	2.87	0.47
8:fS:382:LEU:O	8:fS:413:TYR:OH	2.32	0.47
8:fr:286:PHE:N	8:fr:302:GLU:OE2	2.34	0.47
8:fr:634:THR:HG22	8:fr:640:ILE:HG13	1.96	0.47
8:fs:214:MET:HE1	8:fs:257:ILE:HG12	1.95	0.47
9:gG:88:ASP:OD1	9:gG:88:ASP:N	2.47	0.47
11:hK:118:ARG:HA	11:hK:118:ARG:HD2	1.75	0.47
14:k8:129:ASN:OD1	14:k8:129:ASN:N	2.36	0.47
15:nT:96:ILE:HG13	15:nT:105:ILE:HB	1.96	0.47
16:o2:300:ALA:HB3	16:pA:336:PRO:HG2	1.95	0.47
16:pA:131:ARG:NH2	16:pA:135:ASP:OD2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q3:104:PHE:CZ	17:q5:213:ALA:HB3	2.49	0.47
17:q5:133:ASN:HB2	17:q5:153:ARG:HH12	1.80	0.47
17:q5:218:MET:HA	17:q5:245:TYR:HA	1.96	0.47
1:S1:400:VAL:HG11	1:S3:348:MET:SD	2.53	0.47
1:S4:77:THR:HG21	1:S6:72:ASN:HA	1.97	0.47
1:S5:161:THR:O	1:S5:165:THR:HG22	2.15	0.47
1:S6:5:THR:HG21	4:Xl:200:LEU:HB2	1.97	0.47
1:S6:20:PRO:HG3	1:S6:29:ILE:HG13	1.95	0.47
1:Sv:264:LYS:NZ	1:Sx:260:ARG:HG3	2.30	0.47
1:Sv:407:SER:N	1:Sz:394:ASP:OD2	2.42	0.47
1:Sx:149:GLN:O	1:Sx:153:GLY:HA2	2.13	0.47
2:T1:82:GLY:O	2:T3:63:ALA:N	2.48	0.47
2:Td:38:ILE:HG21	2:Tf:38:ILE:HD13	1.97	0.47
2:Td:172:GLU:N	2:Td:172:GLU:OE1	2.44	0.47
2:Ti:204:VAL:HG22	2:Ti:276:VAL:HG22	1.95	0.47
3:UL:143:ILE:HD11	3:UN:40:ILE:HD13	1.96	0.47
3:Up:73:ASN:ND2	3:Up:75:THR:OG1	2.47	0.47
3:Uq:90:PHE:CE1	3:Uq:178:ILE:HG23	2.49	0.47
3:Us:39:THR:HB	3:Uu:166:HIS:CE1	2.47	0.47
3:Uu:15:ALA:HA	3:Uu:18:LEU:HG	1.96	0.47
3:VM:196:LEU:N	3:VM:214:HIS:O	2.46	0.47
3:Vq:192:THR:HB	3:Vq:219:ALA:HB3	1.97	0.47
3:Vu:14:LEU:O	3:Vu:16:ASP:N	2.47	0.47
4:Wj:200:LEU:HD11	4:Wl:241:THR:HG21	1.96	0.47
4:Wk:117:ILE:HA	4:Wk:143:TRP:HB2	1.96	0.47
4:Wl:161:ASN:OD1	4:Wl:161:ASN:N	2.46	0.47
4:Wm:117:ILE:HA	4:Wm:143:TRP:HB2	1.97	0.47
4:Wn:562:SER:C	4:Wn:564:PRO:HD3	2.39	0.47
4:Wo:39:ASP:CG	4:Wo:48:ALA:HB1	2.40	0.47
4:XI:222:LEU:HG	4:XI:224:PRO:HD2	1.96	0.47
4:XI:303:PRO:O	4:XI:387:ASN:ND2	2.47	0.47
4:XJ:90:ASN:ND2	4:XK:49:TRP:O	2.47	0.47
4:XK:177:PHE:HB2	4:XK:230:ILE:HD11	1.96	0.47
4:Xj:312:ARG:HG2	4:Xj:317:LEU:HA	1.97	0.47
4:Xj:493:ASP:OD1	4:Xj:494:ILE:N	2.46	0.47
4:Xk:543:ILE:HA	4:Xm:541:VAL:HG12	1.96	0.47
4:Xm:20:ARG:HB3	5:Yy:1003:GLN:HG3	1.95	0.47
4:Xo:186:TYR:HB3	4:Xo:227:GLY:O	2.14	0.47
5:YC:425:ARG:CZ	5:YC:449:LYS:HE2	2.45	0.47
5:YC:433:ASN:OD1	5:YC:434:MET:N	2.44	0.47
5:YC:946:SER:O	5:YC:947:VAL:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:486:HIS:HB2	6:Za:305:HIS:CE1	2.50	0.47
5:YX:600:PHE:O	5:YX:602:TYR:N	2.47	0.47
5:YX:782:VAL:HA	5:YX:795:VAL:HG23	1.96	0.47
5:YY:538:ASP:OD1	5:YY:538:ASP:N	2.46	0.47
5:Yc:302:ALA:O	5:Yc:303:ASN:ND2	2.47	0.47
5:Yc:446:SER:HB2	5:Yc:485:TYR:CZ	2.49	0.47
5:Yx:59:LEU:HD13	5:Yx:67:PHE:CE2	2.50	0.47
5:Yx:613:LYS:O	5:Yx:615:THR:N	2.40	0.47
5:Yx:660:GLN:OE1	7:dW:510:ARG:NH1	2.48	0.47
5:Yy:25:TRP:O	5:Yy:65:ASN:HB2	2.15	0.47
5:Yy:233:LEU:HD23	5:Yy:366:TYR:HA	1.96	0.47
5:Yy:433:ASN:OD1	5:Yy:434:MET:N	2.48	0.47
5:Yy:600:PHE:HZ	5:Yy:608:VAL:HB	1.80	0.47
5:Yy:655:ASP:OD1	5:Yy:655:ASP:N	2.45	0.47
6:ZE:198:VAL:HG13	6:ZE:202:ARG:HG3	1.96	0.47
6:aE:147:LEU:HD21	6:aE:156:LEU:HD12	1.95	0.47
6:ab:210:VAL:HG21	6:ab:242:VAL:HG21	1.97	0.47
7:b5:427:VAL:HG13	7:b5:520:GLU:HG3	1.95	0.47
7:b9:510:ARG:H	7:b9:513:GLN:NE2	2.13	0.47
7:bN:485:SER:OG	7:bN:486:GLN:N	2.47	0.47
7:bO:471:ALA:HA	7:bO:474:ILE:HG12	1.97	0.47
7:bQ:403:CYS:O	7:bQ:558:ASN:ND2	2.45	0.47
7:cD:654:LEU:HD22	7:cM:605:ARG:HD3	1.96	0.47
7:cM:251:LEU:H	7:cM:251:LEU:HG	1.54	0.47
7:cO:32:LYS:HE2	7:cO:350:VAL:HB	1.96	0.47
7:dS:571:ARG:HH21	7:dS:587:GLU:CD	2.22	0.47
7:dT:105:THR:O	7:dT:180:ALA:HA	2.15	0.47
7:dT:379:ALA:HB2	7:dT:469:PRO:HD3	1.97	0.47
7:dW:23:SER:OG	7:dW:24:THR:N	2.46	0.47
7:dZ:459:ASP:HB2	7:dZ:466:ARG:HD2	1.96	0.47
8:fB:327:GLU:O	8:fB:331:ILE:HG12	2.14	0.47
8:fU:510:MET:HA	8:fU:624:TYR:O	2.14	0.47
8:fW:427:ASN:N	8:fW:427:ASN:OD1	2.40	0.47
8:fr:255:ASN:OD1	8:fr:255:ASN:N	2.44	0.47
8:fs:416:ILE:HG21	8:fs:459:PHE:CE2	2.50	0.47
9:gE:451:ALA:HB3	9:gG:443:ASN:HA	1.96	0.47
9:gG:8:LEU:O	9:gG:9:ASN:ND2	2.47	0.47
9:gG:236:ILE:HG23	9:gG:240:GLU:HB2	1.96	0.47
11:hf:22:GLN:HB2	11:hf:116:TYR:HE1	1.78	0.47
11:hf:136:ASN:O	11:hf:136:ASN:ND2	2.46	0.47
11:hj:69:TRP:HB2	11:hj:159:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hu:131:GLY:O	11:hu:159:LEU:HA	2.15	0.47
11:hw:1:MET:HE3	11:hw:1:MET:HB2	1.73	0.47
16:o0:146:VAL:HG21	16:o0:169:ALA:HA	1.96	0.47
16:o1:202:ASN:ND2	16:o1:351:ILE:O	2.47	0.47
16:o2:9:ALA:HA	16:o2:12:ILE:HD11	1.96	0.47
17:q7:226:PRO:HB3	17:q7:237:THR:HG21	1.96	0.47
18:rd:14:UNK:O	18:rd:16:UNK:N	2.48	0.47
1:S0:4:ASN:OD1	1:S0:15:TYR:OH	2.32	0.47
1:S1:160:MET:SD	1:S1:165:THR:HB	2.55	0.47
1:S1:230:LEU:HG	1:S1:246:THR:HG22	1.95	0.47
1:S3:330:ARG:NH1	1:S3:331:ILE:O	2.48	0.47
1:SA:150:ALA:HB3	1:SA:168:LEU:HD12	1.96	0.47
1:SA:301:ARG:HD3	1:Sy:295:ILE:HG12	1.97	0.47
1:Sv:161:THR:O	1:Sv:165:THR:HG22	2.13	0.47
1:Sv:519:LEU:HA	1:Sx:434:VAL:HG13	1.96	0.47
1:Sw:39:ILE:HD12	1:Sy:39:ILE:HG21	1.95	0.47
1:Sz:513:ARG:HD2	1:Sz:516:ASN:HD21	1.80	0.47
2:Tf:44:ASP:O	2:Tf:59:GLN:NE2	2.48	0.47
3:UM:40:ILE:HG21	3:UN:160:TYR:CZ	2.49	0.47
3:Us:80:GLU:O	3:Us:187:LYS:NZ	2.29	0.47
3:Us:126:VAL:HG13	3:Us:156:LEU:HD11	1.96	0.47
3:Ut:14:LEU:O	3:Ut:16:ASP:N	2.48	0.47
3:VL:4:LEU:HD13	4:XJ:356:TYR:HE2	1.80	0.47
3:VM:143:ILE:N	3:VM:161:LEU:HG	2.30	0.47
3:Vq:55:ALA:O	3:Vq:59:VAL:HG23	2.14	0.47
3:Vs:58:ASP:OD1	3:Vu:164:GLN:NE2	2.46	0.47
4:WI:102:TRP:CE3	4:WI:131:SER:HB2	2.50	0.47
4:WJ:322:GLY:N	4:WJ:358:VAL:O	2.47	0.47
4:WK:80:ASN:OD1	4:WK:112:ALA:HB2	2.15	0.47
4:WK:563:GLY:N	4:WK:564:PRO:HD3	2.29	0.47
4:Wj:359:GLU:HB3	4:Wj:370:HIS:HB3	1.95	0.47
4:Wk:486:VAL:HG12	4:Wm:488:VAL:HG22	1.96	0.47
4:Wl:421:ASN:HB2	4:Wl:434:GLU:HG3	1.95	0.47
4:Wo:110:VAL:HG22	4:Wo:123:PRO:HB3	1.97	0.47
4:XI:263:ILE:HB	4:XI:296:PHE:CE1	2.50	0.47
4:XJ:158:ASP:OD1	4:XJ:158:ASP:N	2.47	0.47
4:XJ:391:GLY:HA3	4:XK:390:LEU:HD22	1.97	0.47
4:Xj:360:THR:HB	4:Xj:365:ILE:O	2.14	0.47
4:Xk:89:TYR:CZ	4:Xk:139:ALA:HA	2.49	0.47
4:XI:421:ASN:HB2	4:XI:434:GLU:HG3	1.96	0.47
4:Xm:113:SER:OG	4:Xm:114:GLY:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xm:342:CYS:HB3	4:Xm:349:TRP:CH2	2.49	0.47
4:Xn:103:ASN:HB2	4:Xn:129:ARG:HB3	1.96	0.47
4:Xn:110:VAL:HG22	4:Xn:123:PRO:HB3	1.96	0.47
4:Xn:265:LEU:HB3	4:Xn:281:TYR:HB3	1.95	0.47
4:Xn:311:VAL:HG22	4:Xn:320:LEU:HD23	1.96	0.47
5:YC:301:PRO:HB2	5:YC:305:TYR:HA	1.97	0.47
5:YC:715:LEU:HD21	6:ZE:54:VAL:HG21	1.96	0.47
5:YC:770:ILE:HG22	5:YC:842:VAL:H	1.79	0.47
5:YC:872:SER:H	5:YC:894:THR:HG21	1.80	0.47
5:YY:929:TYR:CD2	5:YY:961:VAL:HB	2.49	0.47
5:YY:946:SER:O	5:YY:947:VAL:HG22	2.14	0.47
5:Yc:232:PRO:HG3	5:Yc:237:VAL:HG13	1.95	0.47
5:Yc:248:LEU:HD11	5:Yc:308:ALA:O	2.15	0.47
5:Yc:316:ASP:HA	5:Yc:331:THR:HB	1.96	0.47
5:Yx:327:ARG:HD2	5:Yx:350:PHE:CE2	2.49	0.47
5:Yy:480:LEU:HD22	5:Yy:488:MET:HB2	1.97	0.47
5:Yy:946:SER:O	5:Yy:947:VAL:HG22	2.15	0.47
5:Yy:988:LYS:HB3	5:Yy:989:LEU:H	1.48	0.47
6:Za:202:ARG:HH11	6:Za:209:VAL:HG11	1.79	0.47
6:aZ:92:ARG:NH2	6:aZ:94:ASP:OD2	2.39	0.47
6:aZ:95:TRP:CH2	6:aZ:169:PRO:HD3	2.49	0.47
7:b3:23:SER:O	7:b3:76:ASN:HB2	2.14	0.47
7:b8:332:GLU:OE1	7:b8:332:GLU:N	2.45	0.47
7:bQ:423:VAL:HG13	7:bQ:517:LEU:HD13	1.96	0.47
7:cO:484:VAL:HG13	7:cO:485:SER:H	1.80	0.47
7:cO:505:LEU:HD21	7:cO:525:VAL:HG12	1.95	0.47
7:dU:456:TYR:CD2	7:dU:504:LYS:HD2	2.50	0.47
7:dW:430:ARG:HH21	7:dW:541:ALA:HB1	1.79	0.47
8:eU:187:ILE:O	8:eU:233:ASN:HB2	2.15	0.47
8:fB:206:TRP:CD1	8:fB:222:THR:HB	2.50	0.47
8:fR:612:THR:H	8:fR:615:LYS:HE3	1.80	0.47
8:fU:510:MET:HE3	8:fU:623:LEU:HD11	1.96	0.47
8:fr:596:ASN:OD1	8:fr:601:VAL:HG22	2.13	0.47
8:fs:102:SER:OG	8:fs:192:ILE:O	2.32	0.47
9:gE:36:PRO:HG3	9:gE:45:MET:HB2	1.96	0.47
9:gE:105:ARG:NH1	12:iF:375:GLU:OE1	2.47	0.47
9:gG:204:HIS:ND1	9:gG:248:ASP:OD2	2.47	0.47
11:he:41:LEU:HD13	11:hf:142:LEU:HD22	1.97	0.47
11:hf:23:VAL:HG11	11:hf:39:THR:HG21	1.97	0.47
11:hn:69:TRP:HB2	11:hn:159:LEU:HD23	1.97	0.47
11:hx:124:THR:HB	11:hy:78:ALA:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iC:125:PHE:HE2	12:iC:134:GLU:HG3	1.80	0.47
12:iD:123:PRO:HG3	12:iD:161:PRO:HG3	1.96	0.47
15:m2:95:VAL:HG22	15:m2:106:VAL:HG13	1.95	0.47
16:pA:257:THR:C	16:pA:259:ILE:H	2.23	0.47
17:q3:27:ALA:H	17:q3:199:ILE:HA	1.79	0.47
1:S0:150:ALA:HB3	1:S0:168:LEU:HD12	1.95	0.47
1:S0:365:GLY:H	1:S0:392:LEU:HB2	1.80	0.47
1:S0:487:GLY:HA3	1:S0:508:ILE:HG21	1.97	0.47
1:S1:115:SER:OG	1:S3:100:TYR:OH	2.26	0.47
1:S1:516:ASN:HB3	1:S2:399:PHE:HB2	1.97	0.47
1:S3:456:ASP:OD1	1:S3:462:ASN:ND2	2.40	0.47
1:S4:139:ASN:HD21	1:S8:130:GLU:HA	1.80	0.47
1:S4:371:ASP:OD1	1:S4:526:LYS:NZ	2.42	0.47
1:S5:77:THR:HG22	1:S5:80:THR:H	1.79	0.47
1:S5:85:LEU:O	1:S5:88:PRO:HD2	2.14	0.47
1:S5:411:ASN:O	1:S5:415:ASN:ND2	2.37	0.47
1:S6:163:LEU:HB3	1:S8:155:ASP:HA	1.97	0.47
1:S6:446:LYS:N	1:S8:503:ASN:OD1	2.46	0.47
1:S8:27:PRO:HA	1:S8:29:ILE:HD11	1.95	0.47
1:S8:29:ILE:O	1:S8:30:THR:OG1	2.28	0.47
1:SA:29:ILE:O	1:SA:30:THR:OG1	2.27	0.47
1:SA:386:ASN:ND2	1:Sx:68:ASP:OD1	2.47	0.47
1:SP:149:GLN:O	1:SP:153:GLY:HA2	2.15	0.47
1:SP:240:ASN:HB3	1:SP:243:VAL:HG22	1.95	0.47
1:SQ:196:VAL:HG22	1:SQ:214:THR:HG22	1.96	0.47
1:Sv:12:GLU:HG3	1:Sv:14:ARG:H	1.79	0.47
1:Sv:347:MET:HB3	1:Sz:347:MET:HE3	1.96	0.47
1:Sw:67:ILE:HD13	1:Sw:84:ARG:HG3	1.97	0.47
1:Sw:85:LEU:O	1:Sw:88:PRO:HD2	2.15	0.47
1:Sx:295:ILE:HG13	1:Sz:301:ARG:HB3	1.97	0.47
2:T3:188:ASP:HB3	2:T3:262:THR:HG21	1.96	0.47
2:T4:100:ARG:HE	2:T4:127:ILE:HG21	1.78	0.47
2:TG:194:ARG:HG3	2:TG:195:THR:HG23	1.97	0.47
2:TG:286:VAL:HG21	2:TH:134:SER:H	1.79	0.47
2:Td:102:GLU:HA	2:Td:153:SER:HB3	1.96	0.47
2:Te:219:ILE:HG21	2:Te:254:PHE:CE1	2.49	0.47
2:Tg:25:PHE:O	2:Tg:29:ASN:ND2	2.37	0.47
2:Th:8:LYS:HD3	2:Th:30:LYS:HG2	1.96	0.47
3:UN:17:PHE:HD1	3:UN:47:PHE:HB2	1.80	0.47
3:UN:68:GLY:H	3:UN:217:ARG:HB3	1.80	0.47
3:VL:109:VAL:HA	3:VL:178:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VL:193:TRP:CZ3	3:VL:217:ARG:HB2	2.49	0.47
3:Vp:40:ILE:HA	3:Vp:43:LEU:HD12	1.95	0.47
3:Vq:14:LEU:O	3:Vq:16:ASP:N	2.48	0.47
3:Vr:192:THR:HB	3:Vr:219:ALA:HB3	1.97	0.47
3:Vs:87:TYR:HE1	3:Vs:157:GLU:HB2	1.79	0.47
4:WJ:214:SER:OG	4:WJ:222:LEU:O	2.32	0.47
4:WJ:342:CYS:HB3	4:WJ:349:TRP:CH2	2.49	0.47
4:Wj:18:TYR:CE1	4:Wj:20:ARG:HB3	2.49	0.47
4:Wk:217:GLU:HB2	4:Wk:222:LEU:HB2	1.97	0.47
4:Wn:20:ARG:HB2	5:YX:923:SER:N	2.30	0.47
4:Wn:195:HIS:C	4:Wn:197:GLY:H	2.23	0.47
4:Wn:276:LEU:HB2	4:Wn:280:ILE:HD12	1.96	0.47
4:Wn:278:GLY:HA2	4:Wn:296:PHE:C	2.40	0.47
4:Wo:131:SER:HA	4:Wo:150:GLN:HB3	1.97	0.47
4:Wo:231:ARG:HG2	4:Wo:232:LEU:N	2.30	0.47
4:Xl:556:GLN:HE22	4:XK:555:CYS:HB3	1.80	0.47
4:XJ:150:GLN:O	4:XJ:152:ASP:N	2.48	0.47
4:XK:73:SER:HB3	4:XK:101:THR:HG22	1.97	0.47
4:Xk:199:GLU:OE1	4:Xm:196:ARG:NH2	2.48	0.47
4:Xk:232:LEU:HG	4:Xk:234:GLN:H	1.79	0.47
4:Xi:195:HIS:C	4:Xi:197:GLY:H	2.22	0.47
4:Xm:102:TRP:CE3	4:Xm:131:SER:HB2	2.49	0.47
4:Xm:394:LEU:HB3	4:Xo:392:THR:HG22	1.95	0.47
4:Xm:558:ASP:O	4:Xm:560:ASP:N	2.44	0.47
4:Xn:265:LEU:O	4:Xn:378:GLY:HA2	2.15	0.47
4:Xn:362:GLU:HB2	4:Xn:366:PRO:HA	1.97	0.47
4:Xn:562:SER:C	4:Xn:564:PRO:HD3	2.40	0.47
5:YC:35:PHE:O	5:YC:82:VAL:HA	2.14	0.47
5:YC:341:LEU:HD13	5:YC:343:PRO:HD3	1.97	0.47
5:YC:781:LEU:O	5:YC:784:GLN:HB2	2.15	0.47
5:YC:988:LYS:HB3	5:YC:989:LEU:H	1.48	0.47
5:YX:191:TYR:CD1	5:YX:235:LYS:HA	2.50	0.47
5:YX:316:ASP:HA	5:YX:331:THR:HB	1.96	0.47
5:YX:433:ASN:H	5:YX:444:SER:HB3	1.80	0.47
5:YX:447:ASN:HD21	6:Za:73:THR:HG23	1.78	0.47
5:YX:585:MET:HE3	5:YX:600:PHE:HE2	1.80	0.47
5:YY:36:VAL:HG23	5:YY:59:LEU:HB2	1.97	0.47
5:YY:300:LEU:HB2	5:YY:350:PHE:CE1	2.50	0.47
5:YY:826:VAL:HG13	5:YY:838:ILE:HD11	1.97	0.47
5:YY:926:PRO:HD2	5:YY:985:GLU:O	2.14	0.47
5:Yc:81:ARG:HG2	5:Yc:94:TRP:CE3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:627:GLU:CD	5:Yc:627:GLU:H	2.21	0.47
5:Yc:653:MET:HG3	5:Yc:654:PRO:HD2	1.97	0.47
5:Yc:881:ARG:HD2	8:fA:343:THR:HG21	1.96	0.47
5:Yx:506:MET:HE3	6:ac:176:ALA:HB2	1.97	0.47
5:Yy:366:TYR:CD1	5:Yy:380:ILE:HD11	2.50	0.47
5:Yy:671:TYR:OH	8:fS:63:ASN:O	2.32	0.47
5:Yy:965:LEU:HD21	5:Yy:982:LEU:HD21	1.96	0.47
5:Yy:987:ARG:NE	5:Yy:988:LYS:HG3	2.30	0.47
5:Yy:993:LEU:HD23	5:Yy:993:LEU:H	1.79	0.47
6:ZD:89:VAL:O	6:ZD:246:THR:OG1	2.33	0.47
6:ZE:201:ASN:N	6:ZE:201:ASN:OD1	2.47	0.47
6:ZZ:298:ASP:OD1	6:ZZ:299:PRO:HD2	2.14	0.47
6:Zc:89:VAL:HB	6:Zc:207:TYR:HB3	1.97	0.47
7:b0:494:TYR:CE2	7:cI:569:LYS:HD3	2.50	0.47
7:b3:134:VAL:HG12	7:b3:140:ILE:HG22	1.95	0.47
7:b4:484:VAL:HG13	7:b4:485:SER:H	1.79	0.47
7:b4:495:ASN:OD1	7:b4:495:ASN:N	2.34	0.47
7:b6:470:LEU:HD23	7:b6:525:VAL:HG21	1.97	0.47
7:b7:104:SER:OG	7:b7:183:THR:OG1	2.30	0.47
7:b7:494:TYR:CE2	7:cB:569:LYS:HD3	2.49	0.47
7:b8:12:GLU:HG3	7:cG:548:PHE:CE2	2.49	0.47
7:b9:441:PHE:CZ	7:b9:443:ILE:HD11	2.48	0.47
7:bN:459:ASP:OD2	7:bN:466:ARG:NH1	2.42	0.47
7:bO:550:ARG:HB3	7:bO:553:VAL:HG12	1.95	0.47
7:bP:417:ILE:H	7:bP:417:ILE:HD13	1.80	0.47
7:bQ:458:TYR:OH	7:bQ:463:ASP:OD1	2.29	0.47
7:bQ:638:ILE:HG12	7:dV:623:PHE:HB3	1.97	0.47
7:bR:365:ARG:HA	7:bR:400:ARG:NH2	2.29	0.47
7:cB:246:LYS:HB2	7:cB:250:ALA:HB2	1.95	0.47
7:cB:480:ARG:O	7:cB:484:VAL:HG12	2.15	0.47
7:cC:296:SER:O	7:cC:311:ILE:HG13	2.15	0.47
7:cC:470:LEU:HD23	7:cC:525:VAL:HG21	1.95	0.47
7:cE:143:ILE:HD12	7:cE:145:ILE:HD11	1.97	0.47
7:cE:471:ALA:HA	7:cE:474:ILE:HG12	1.97	0.47
7:cI:151:ILE:O	7:cI:155:LYS:HG2	2.15	0.47
7:cI:487:THR:HG21	7:cI:559:MET:HE3	1.95	0.47
7:cI:538:ASP:OD1	7:cI:538:ASP:N	2.48	0.47
7:cJ:10:LEU:HD13	7:cN:561:LYS:HD2	1.96	0.47
7:cP:453:ASN:HB2	7:cP:506:ALA:HB3	1.97	0.47
7:dS:409:PRO:HG3	7:dS:426:LEU:HD21	1.96	0.47
7:dU:117:THR:HG23	7:dU:127:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dV:101:TYR:OH	7:dV:216:LYS:O	2.32	0.47
7:dZ:35:TRP:O	7:dZ:54:PHE:HA	2.15	0.47
7:dZ:344:LEU:HD12	7:dZ:346:SER:HB3	1.97	0.47
8:eU:323:GLU:O	8:eU:327:GLU:HG2	2.14	0.47
8:eU:363:PHE:CG	8:eU:636:ASP:HB2	2.49	0.47
8:eW:227:ARG:NH1	8:eW:229:THR:HG22	2.30	0.47
8:eW:521:ARG:O	8:eW:522:LYS:HD2	2.15	0.47
8:f9:399:TYR:O	8:f9:400:ASN:ND2	2.33	0.47
8:fA:102:SER:OG	8:fA:192:ILE:O	2.23	0.47
8:fA:209:TRP:HB2	8:fA:223:ILE:HG21	1.97	0.47
8:fB:521:ARG:O	8:fB:533:ASP:HB2	2.14	0.47
8:fR:109:GLU:HG3	8:fR:165:LEU:O	2.14	0.47
8:fS:502:ASN:N	8:fS:600:ASP:OD2	2.48	0.47
8:fU:45:ASP:O	8:fU:47:ASP:N	2.48	0.47
8:fU:214:MET:HA	8:fU:217:ALA:HB2	1.97	0.47
8:fU:246:ASN:ND2	8:fU:250:GLY:HA3	2.30	0.47
8:fU:452:VAL:O	8:fU:457:SER:OG	2.31	0.47
8:fW:15:ASN:OD1	8:fW:39:GLY:HA3	2.14	0.47
8:fr:231:ASP:OD1	14:k3:35:TYR:OH	2.32	0.47
8:fs:377:LYS:HD2	8:fs:641:VAL:HG21	1.95	0.47
9:gE:330:ILE:HD12	9:gE:336:LEU:HA	1.95	0.47
9:gE:402:GLU:CD	9:gE:411:ARG:HH22	2.22	0.47
9:gH:254:ARG:NH1	9:gH:255:ASP:OD1	2.47	0.47
9:gH:429:ARG:NE	9:gH:431:THR:OG1	2.47	0.47
10:gd:63:ARG:NH1	10:gd:79:ASP:OD1	2.48	0.47
11:hL:83:GLN:HA	11:hL:86:VAL:HG22	1.95	0.47
11:hM:58:ILE:HD11	17:q7:7:PHE:CD2	2.49	0.47
11:hM:83:GLN:HA	11:hM:86:VAL:HG22	1.97	0.47
11:hf:48:LYS:HG3	11:hf:59:ASN:HB3	1.96	0.47
11:hi:23:VAL:HG11	11:hi:39:THR:HG21	1.96	0.47
11:hm:64:ARG:NH2	11:hn:89:GLN:HG2	2.30	0.47
11:ho:39:THR:HG22	11:ho:71:VAL:HG22	1.97	0.47
11:hs:140:LEU:HD12	11:hs:140:LEU:HA	1.74	0.47
11:hu:140:LEU:HD11	11:hu:151:GLN:HG2	1.97	0.47
11:hv:139:GLU:OE2	11:hv:141:GLN:NE2	2.37	0.47
11:hX:25:ILE:HG13	11:hX:32:PHE:HE2	1.79	0.47
11:hX:56:ARG:HB3	11:hX:56:ARG:NH1	2.29	0.47
11:hX:88:TRP:CE2	11:hX:134:PRO:HD3	2.49	0.47
11:hy:42:PRO:HD2	11:hy:127:ILE:HD11	1.97	0.47
12:iC:95:VAL:O	12:iF:236:TRP:HB2	2.15	0.47
12:iC:238:THR:O	12:iC:306:GLY:HA2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iD:34:THR:HB	16:pB:172:GLY:O	2.14	0.47
12:iF:150:ILE:HG23	12:iF:195:VAL:HB	1.95	0.47
15:m6:73:VAL:HG11	15:m6:106:VAL:HG11	1.96	0.47
16:o0:8:THR:HG23	16:o0:11:LEU:H	1.79	0.47
16:o0:181:ILE:C	16:o0:183:ALA:H	2.20	0.47
16:o1:142:ARG:HH11	16:o1:201:GLU:HG2	1.79	0.47
16:o1:227:GLN:NE2	16:o1:265:GLU:OE2	2.41	0.47
17:q3:133:ASN:HB3	17:q7:223:VAL:HG13	1.97	0.47
17:q5:123:LEU:HD13	17:q8:7:PHE:HA	1.96	0.47
17:q9:17:GLN:NE2	17:q9:18:ARG:O	2.47	0.47
17:q9:23:SER:OG	17:q9:202:ASN:ND2	2.43	0.47
17:q9:158:LEU:HD21	17:q9:218:MET:SD	2.54	0.47
1:S2:496:ARG:NH1	1:S2:501:THR:OG1	2.46	0.47
1:Sv:185:GLU:CD	1:Sv:185:GLU:H	2.23	0.47
1:Sw:292:GLY:HA3	1:Sy:298:GLY:HA3	1.97	0.47
1:Sy:167:GLN:HG2	3:Up:77:VAL:HG23	1.96	0.47
2:Te:133:VAL:HG21	2:Te:137:LEU:HD13	1.97	0.47
2:Tg:92:VAL:HG12	5:YY:55:ARG:HH22	1.80	0.47
2:Th:87:ILE:HG13	2:Th:122:LEU:HD11	1.97	0.47
3:UM:125:PHE:O	3:UM:129:VAL:HG23	2.15	0.47
3:Up:152:ASP:OD2	3:Up:154:SER:OG	2.32	0.47
3:Ur:4:LEU:HD12	4:Wn:318:GLN:HB3	1.97	0.47
3:Ut:100:PRO:O	3:Ut:103:SER:OG	2.20	0.47
3:Uu:47:PHE:CZ	3:Uu:49:GLU:HB2	2.50	0.47
3:VL:4:LEU:HD22	4:XJ:356:TYR:HD2	1.80	0.47
3:Vs:197:GLY:HA3	3:Vu:203:LEU:HD13	1.95	0.47
4:WJ:261:ARG:HD2	4:WJ:297:GLY:H	1.80	0.47
4:WJ:394:LEU:HB3	4:WK:392:THR:HG22	1.95	0.47
4:Wj:214:SER:HB2	4:Wj:215:PRO:HD2	1.97	0.47
4:Wk:372:ASP:OD1	4:Wk:372:ASP:N	2.47	0.47
4:Wl:419:ASP:HB3	4:Wl:436:VAL:HB	1.97	0.47
4:Wm:213:GLY:HA3	4:Wm:231:ARG:C	2.40	0.47
4:Wo:4:ASN:OD1	4:Wo:5:ILE:N	2.48	0.47
4:XJ:289:LYS:HE2	4:XJ:370:HIS:HE1	1.79	0.47
4:Xk:164:ARG:HG3	4:Xk:245:GLU:HG2	1.97	0.47
4:Xl:214:SER:HB2	4:Xl:215:PRO:HD2	1.96	0.47
4:Xl:350:GLU:N	4:Xl:350:GLU:OE1	2.47	0.47
4:Xo:215:PRO:HB3	4:Xo:229:ASN:C	2.40	0.47
4:Xo:419:ASP:HB3	4:Xo:436:VAL:HB	1.95	0.47
4:Xo:493:ASP:OD2	4:Xo:495:SER:OG	2.30	0.47
5:YC:723:VAL:HG22	8:eB:257:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YC:872:SER:O	5:YC:873:SER:OG	2.28	0.47
5:YX:248:LEU:HD11	5:YX:308:ALA:O	2.15	0.47
5:YX:916:TYR:HB3	5:YX:1004:PHE:HB3	1.96	0.47
5:YY:98:GLU:O	5:YY:99:GLU:HG2	2.15	0.47
5:Yc:113:MET:HE3	5:Yc:598:TYR:HE2	1.80	0.47
5:Yc:139:ASN:HD21	5:Yc:550:GLU:HA	1.80	0.47
5:Yc:312:THR:HG22	5:Yc:319:TYR:HB2	1.96	0.47
5:Yc:329:ILE:HD11	5:Yc:350:PHE:HE1	1.78	0.47
5:Yc:433:ASN:H	5:Yc:444:SER:HB3	1.80	0.47
5:Yc:527:ASN:OD1	5:Yc:528:ASN:N	2.48	0.47
5:Yc:714:TYR:OH	5:Yc:749:LYS:O	2.21	0.47
5:Yc:855:ILE:HG13	5:Yc:856:ASN:H	1.80	0.47
5:Yx:746:PHE:HZ	8:fU:214:MET:HE3	1.80	0.47
5:Yy:613:LYS:O	5:Yy:615:THR:N	2.44	0.47
6:ZE:21:MET:HG3	6:ZE:247:ILE:HG13	1.97	0.47
6:Za:43:ARG:H	6:Za:74:HIS:HB3	1.80	0.47
6:aa:43:ARG:H	6:aa:74:HIS:HB3	1.80	0.47
6:ac:89:VAL:HG12	6:ac:209:VAL:HG22	1.95	0.47
7:b0:438:ASP:OD1	7:b0:438:ASP:N	2.48	0.47
7:b4:104:SER:HB2	7:b4:181:VAL:HB	1.97	0.47
7:b5:498:GLN:HA	7:b5:534:VAL:HG12	1.97	0.47
7:b8:417:ILE:HD13	7:b8:417:ILE:H	1.80	0.47
7:bN:601:ILE:HD13	7:bN:629:ILE:HB	1.97	0.47
7:bO:635:ILE:HB	7:dT:572:LEU:O	2.15	0.47
7:bP:505:LEU:HD12	7:bP:505:LEU:HA	1.77	0.47
7:bQ:332:GLU:H	7:bQ:332:GLU:CD	2.23	0.47
7:bQ:518:TYR:CE2	7:bR:6:PRO:HD3	2.50	0.47
7:bY:564:ILE:HD11	7:cH:642:PHE:CZ	2.50	0.47
7:cA:456:TYR:O	7:cA:503:ILE:HG23	2.15	0.47
7:cD:540:THR:HG23	7:cD:551:ILE:HG12	1.96	0.47
7:cE:57:PRO:HG3	7:cE:65:PHE:CD1	2.50	0.47
7:cF:612:ASN:HB3	7:cF:624:VAL:HG23	1.95	0.47
7:cI:44:VAL:HG11	7:cI:50:LEU:HB2	1.95	0.47
7:cK:12:GLU:HG3	7:cO:548:PHE:CE2	2.50	0.47
7:cK:444:SER:OG	7:cK:543:SER:OG	2.16	0.47
7:cN:254:ILE:HD11	7:cN:261:ARG:HB2	1.97	0.47
7:cP:454:TYR:HB3	7:cP:467:TRP:CD1	2.50	0.47
7:cP:479:ALA:O	7:cP:483:ASN:ND2	2.48	0.47
7:dW:271:TYR:CE2	7:dW:304:ILE:HG13	2.49	0.47
8:eW:425:ALA:HB2	8:eW:476:ILE:HD13	1.97	0.47
8:f9:10:LEU:HD13	8:f9:12:ARG:HE	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f9:214:MET:HE1	8:f9:257:ILE:HG23	1.96	0.47
8:f9:518:ASN:HA	8:f9:535:LEU:HB3	1.97	0.47
8:fA:550:ILE:HG13	8:fA:596:ASN:HB3	1.96	0.47
8:fA:605:ASN:HB3	8:fA:608:LYS:NZ	2.29	0.47
8:fU:227:ARG:NH1	8:fU:229:THR:HG22	2.30	0.47
8:fs:436:LEU:O	8:fs:440:ILE:HG23	2.15	0.47
9:gE:428:GLY:HA2	9:gH:418:THR:HG21	1.96	0.47
9:gG:378:GLU:OE2	9:gG:421:TYR:OH	2.20	0.47
11:hK:41:LEU:HD13	11:hL:142:LEU:HD22	1.96	0.47
11:hj:63:ASP:OD2	11:hp:147:ASN:ND2	2.48	0.47
11:hm:75:ASN:HB3	11:hm:151:GLN:HB3	1.97	0.47
11:hs:140:LEU:HD13	11:hs:153:PHE:HB3	1.97	0.47
11:hx:54:MET:O	11:hx:56:ARG:N	2.48	0.47
11:hz:56:ARG:HB3	11:hz:56:ARG:NH1	2.30	0.47
12:iC:313:ILE:H	12:iC:313:ILE:HD12	1.80	0.47
12:iD:363:LYS:HD2	16:o6:82:SER:HB3	1.97	0.47
14:kV:150:LEU:HA	16:o6:12:ILE:HD12	1.96	0.47
14:lV:74:LEU:HD21	14:lV:82:PRO:HB3	1.97	0.47
16:o0:323:LYS:HB3	16:o0:339:PRO:HG2	1.97	0.47
16:o0:329:PHE:CE2	16:o0:339:PRO:HG3	2.49	0.47
16:o1:132:SER:HB2	16:o1:208:THR:H	1.80	0.47
17:q4:203:LEU:HB2	17:q4:212:THR:HG22	1.96	0.47
1:S1:368:SER:HB3	1:S1:371:ASP:HB3	1.97	0.47
1:S1:517:ILE:HB	1:S2:437:VAL:HG22	1.97	0.47
1:S4:233:GLN:HG2	4:Wk:348:THR:HG22	1.96	0.47
1:S7:418:ASP:OD1	1:S7:422:LYS:N	2.47	0.47
1:S8:6:TYR:CE1	4:Xj:234:GLN:HG2	2.50	0.47
1:SO:99:ARG:HH21	1:SO:111:ASN:HD22	1.63	0.47
1:SP:46:GLY:O	1:SP:47:VAL:HB	2.15	0.47
1:Sy:240:ASN:HB3	1:Sy:243:VAL:HG22	1.95	0.47
1:Sz:220:SER:OG	1:Sz:226:GLY:O	2.33	0.47
2:T1:173:SER:H	2:T2:166:SER:HG	1.63	0.47
2:T1:176:GLU:HG3	2:T1:277:LYS:HG3	1.96	0.47
2:T3:200:ALA:HB3	2:T3:221:ILE:HG12	1.96	0.47
2:T6:207:GLN:CD	2:T6:214:ILE:HD12	2.40	0.47
2:TG:39:TYR:CG	2:TH:7:LYS:HD3	2.50	0.47
2:Tf:219:ILE:HG21	2:Tf:254:PHE:HE2	1.80	0.47
3:Ur:28:ASP:OD2	3:Ut:60:HIS:NE2	2.48	0.47
3:VL:85:THR:HG22	3:VL:183:ILE:HD12	1.96	0.47
3:VM:79:PRO:HD3	3:VM:215:PHE:CD2	2.49	0.47
3:VM:109:VAL:HG13	3:VM:178:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vq:68:GLY:HA3	3:Vs:75:THR:HG23	1.96	0.47
3:Vr:142:ALA:N	3:Vr:161:LEU:HD12	2.29	0.47
3:Vs:16:ASP:N	3:Vs:16:ASP:OD1	2.45	0.47
4:Wl:13:ASP:OD1	4:Wl:14:GLY:N	2.48	0.47
4:Wl:23:GLY:C	4:Wl:25:LYS:H	2.23	0.47
4:Wl:326:MET:HE1	4:WJ:264:ARG:N	2.30	0.47
4:Wl:358:VAL:HG13	4:Wl:369:LEU:HB2	1.96	0.47
4:Wj:362:GLU:HB3	4:Wj:367:GLU:OE1	2.15	0.47
4:Wj:530:ALA:HA	4:Wn:580:HIS:CE1	2.50	0.47
4:Wk:72:THR:HB	4:Wk:105:ASN:HB3	1.96	0.47
4:Wl:253:GLN:HB2	4:Wl:255:ARG:HE	1.79	0.47
4:Wm:102:TRP:CZ3	4:Wm:131:SER:HB2	2.50	0.47
4:Wm:472:TYR:CD2	4:Wo:455:PRO:HG3	2.50	0.47
4:Wn:266:LEU:HD23	4:Wn:270:LEU:HB3	1.96	0.47
4:Xl:319:GLU:HB2	4:XJ:262:GLN:HE22	1.80	0.47
4:XJ:20:ARG:HH12	4:XJ:24:ILE:HD12	1.79	0.47
4:Xj:89:TYR:O	4:Xj:91:LYS:HG2	2.15	0.47
4:Xk:237:ASN:OD1	4:Xk:238:ILE:N	2.48	0.47
4:Xk:312:ARG:HG2	4:Xk:317:LEU:HA	1.95	0.47
4:Xl:527:LEU:HB2	4:Xn:533:PRO:HD3	1.96	0.47
4:Xm:257:SER:O	4:Xm:258:TYR:HB3	2.13	0.47
4:Xm:361:ASP:H	4:Xm:366:PRO:HA	1.80	0.47
4:Xo:23:GLY:O	4:Xo:25:LYS:N	2.42	0.47
5:YC:376:PHE:HB3	5:YC:405:VAL:HA	1.97	0.47
5:YC:507:LYS:HZ3	5:YC:509:TYR:HA	1.80	0.47
5:YC:894:THR:O	5:YC:894:THR:OG1	2.32	0.47
5:YY:305:TYR:CD2	5:YY:306:ARG:HG3	2.50	0.47
5:YY:355:MET:SD	5:YY:409:ASP:HA	2.55	0.47
5:YY:404:TYR:HA	5:YY:415:ARG:HA	1.97	0.47
5:Yc:349:LEU:HD22	5:Yc:349:LEU:HA	1.79	0.47
5:Yc:838:ILE:H	5:Yc:838:ILE:HG12	1.51	0.47
5:Yc:840:ARG:HG2	5:Yc:841:GLY:H	1.80	0.47
5:Yx:408:HIS:NE2	5:Yx:411:LYS:HE3	2.30	0.47
5:Yx:548:ILE:H	5:Yx:548:ILE:HG13	1.43	0.47
5:Yx:749:LYS:HA	5:Yx:753:ASN:HA	1.96	0.47
6:aD:21:MET:HG3	6:aD:247:ILE:HG12	1.97	0.47
7:b3:379:ALA:HB2	7:b3:454:TYR:CE2	2.49	0.47
7:b4:121:VAL:HG13	7:b4:166:ASN:HA	1.97	0.47
7:b5:379:ALA:HA	7:b5:411:ARG:HB2	1.97	0.47
7:b6:69:MET:O	7:b6:73:GLN:HG2	2.15	0.47
7:b6:107:GLY:HA3	7:b6:110:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b7:256:PRO:HG2	7:b7:339:THR:H	1.80	0.47
7:bN:66:MET:HG2	7:bN:468:VAL:HG21	1.95	0.47
7:bR:430:ARG:HH21	7:bR:541:ALA:HB1	1.79	0.47
7:cC:548:PHE:HE2	7:cC:557:PHE:CG	2.33	0.47
7:cC:651:PHE:O	7:cC:654:LEU:HB2	2.15	0.47
7:cE:455:LYS:HB2	7:cE:470:LEU:HD13	1.95	0.47
7:cI:118:VAL:HB	7:cI:126:GLU:HB3	1.96	0.47
7:dT:234:ILE:HB	7:dT:340:LEU:HD12	1.97	0.47
7:dV:70:ASN:OD1	7:dV:457:GLN:NE2	2.45	0.47
7:dV:572:LEU:HD12	7:dV:572:LEU:HA	1.73	0.47
7:dW:33:PHE:HB2	7:dW:82:ARG:HG2	1.96	0.47
7:dW:639:THR:HA	7:dZ:11:LYS:O	2.15	0.47
7:dZ:125:ILE:HD12	7:dZ:153:LYS:HG2	1.96	0.47
8:eU:346:ASP:OD1	8:eU:347:THR:N	2.48	0.47
8:fA:596:ASN:OD1	8:fA:601:VAL:HG22	2.15	0.47
8:fU:336:GLN:O	8:fr:251:ALA:HB1	2.15	0.47
8:fr:508:ARG:NH1	8:fr:576:ASP:O	2.43	0.47
9:gE:81:ARG:HB2	9:gE:81:ARG:HH11	1.79	0.47
11:h2:57:LYS:HE2	11:hI:147:ASN:HD21	1.79	0.47
11:hI:58:ILE:HD12	17:q9:12:ILE:HD12	1.95	0.47
11:hJ:6:VAL:HG21	11:hy:58:ILE:HD11	1.96	0.47
11:hM:45:ILE:HA	11:hX:135:THR:O	2.14	0.47
11:hg:124:THR:HB	11:hh:78:ALA:HA	1.97	0.47
11:ht:82:ARG:NH1	11:ht:138:GLY:HA2	2.22	0.47
11:hw:82:ARG:NH1	11:hw:138:GLY:HA2	2.30	0.47
15:m1:60:GLN:OE1	15:m1:76:ASN:ND2	2.48	0.47
16:pA:97:ASN:N	16:pA:97:ASN:OD1	2.45	0.47
16:pA:247:LYS:HG3	16:pA:248:GLY:H	1.80	0.47
1:S1:228:ILE:HD11	1:S3:228:ILE:HB	1.97	0.47
1:S2:142:ILE:HG21	1:S2:157:THR:O	2.14	0.47
1:S4:7:GLN:HB2	1:S4:15:TYR:CZ	2.50	0.47
1:S5:50:ALA:HA	1:S5:56:GLY:HA3	1.97	0.47
1:S5:255:SER:O	1:S5:278:SER:OG	2.30	0.47
1:S6:213:TYR:HB2	1:S8:203:THR:O	2.15	0.47
1:S6:418:ASP:OD1	1:S6:422:LYS:N	2.48	0.47
1:SA:153:GLY:O	1:Sy:163:LEU:HB2	2.15	0.47
1:SA:240:ASN:HB3	1:SA:243:VAL:HG22	1.97	0.47
1:SP:29:ILE:HG22	1:SP:30:THR:H	1.80	0.47
1:SP:212:PRO:HB3	1:SQ:199:VAL:HA	1.97	0.47
1:SQ:117:THR:HG23	1:SQ:120:LYS:H	1.79	0.47
2:T9:232:SER:HB3	2:T9:254:PHE:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TH:188:ASP:OD2	2:TH:257:LYS:NZ	2.45	0.47
2:Td:86:ASP:HA	2:Td:110:ILE:HG13	1.97	0.47
3:UM:4:LEU:HD21	4:WK:357:SER:OG	2.15	0.47
3:UN:107:VAL:HG22	3:UN:174:TYR:HD2	1.79	0.47
3:Up:2:SER:HB2	3:Up:5:ASN:HD21	1.80	0.47
3:Uu:17:PHE:CD1	3:Uu:47:PHE:HB2	2.50	0.47
3:Vs:110:PHE:H	3:Vs:171:TYR:HH	1.62	0.47
3:Vt:84:GLN:NE2	3:Vt:86:ASP:OD2	2.48	0.47
4:WJ:311:VAL:HG22	4:WJ:320:LEU:HD22	1.97	0.47
4:WJ:317:LEU:HD13	4:WK:312:ARG:HH12	1.79	0.47
4:WK:195:HIS:CE1	4:WK:232:LEU:HD21	2.49	0.47
4:Wj:204:ASP:OD1	4:Wj:204:ASP:N	2.48	0.47
4:Wk:221:GLU:N	4:Wk:221:GLU:OE1	2.48	0.47
4:Wk:558:ASP:N	4:Wk:559:PRO:HD3	2.30	0.47
4:Wl:350:GLU:N	4:Wl:350:GLU:OE1	2.48	0.47
4:Wl:441:ARG:HD3	4:Wl:452:THR:OG1	2.14	0.47
4:Wn:79:ILE:HG13	4:Wn:109:LEU:HA	1.95	0.47
4:Wn:215:PRO:HD2	4:Wn:225:LEU:HA	1.97	0.47
4:Wo:311:VAL:HG22	4:Wo:320:LEU:HD22	1.96	0.47
4:XJ:213:GLY:O	4:XJ:221:GLU:HB2	2.14	0.47
4:XK:180:VAL:HG13	4:XK:181:PHE:N	2.30	0.47
4:Xj:23:GLY:C	4:Xj:25:LYS:H	2.23	0.47
4:Xk:360:THR:HB	4:Xk:365:ILE:O	2.15	0.47
4:Xk:464:VAL:HG12	4:Xm:429:GLY:HA2	1.96	0.47
4:Xm:18:TYR:HB3	4:Xm:21:LYS:H	1.80	0.47
4:Xm:222:LEU:HG	4:Xm:224:PRO:HD2	1.95	0.47
4:Xn:563:GLY:N	4:Xn:564:PRO:HD3	2.30	0.47
4:Xo:178:LEU:HA	4:Xo:229:ASN:CG	2.40	0.47
4:Xo:211:ASP:OD1	4:Xo:233:ARG:HB3	2.15	0.47
5:YC:312:THR:HG22	5:YC:319:TYR:HD2	1.79	0.47
5:YX:234:SER:O	5:YX:236:THR:OG1	2.33	0.47
5:YX:454:ASN:OD1	5:YX:454:ASN:N	2.48	0.47
5:YX:902:VAL:HG23	6:ZZ:12:VAL:HG21	1.97	0.47
5:YX:1011:ARG:NH2	5:YX:1013:LYS:HD3	2.30	0.47
5:YY:341:LEU:HD13	5:YY:343:PRO:HD3	1.97	0.47
5:Yc:119:ALA:O	5:Yc:123:ILE:HG22	2.15	0.47
5:Yc:916:TYR:HB3	5:Yc:1004:PHE:HB3	1.97	0.47
5:Yx:69:PHE:CZ	5:Yx:71:ASP:HB2	2.50	0.47
5:Yy:42:LYS:H	5:Yy:50:PRO:HD2	1.80	0.47
5:Yy:969:TYR:HD1	5:Yy:973:ASN:HD21	1.63	0.47
5:Yy:987:ARG:HE	5:Yy:988:LYS:HG3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Zc:90:ILE:HD11	6:Zc:208:ILE:HD11	1.96	0.47
6:aD:313:GLU:OE2	6:aD:315:ARG:NH1	2.42	0.47
7:b0:246:LYS:HB2	7:b0:250:ALA:HB2	1.96	0.47
7:b3:110:TYR:CE1	7:b3:171:ILE:HD12	2.50	0.47
7:b5:459:ASP:OD2	7:b5:466:ARG:NH1	2.47	0.47
7:b7:107:GLY:HA3	7:b7:110:TYR:HE2	1.80	0.47
7:b7:571:ARG:NH2	7:b7:587:GLU:OE1	2.39	0.47
7:b9:351:THR:OG1	7:b9:352:ALA:N	2.47	0.47
7:bN:269:PHE:CE2	7:bN:280:ALA:HB1	2.50	0.47
7:bP:400:ARG:HD3	7:bP:403:CYS:SG	2.55	0.47
7:bY:378:CYS:SG	7:bY:469:PRO:HB3	2.55	0.47
7:cB:440:ASN:OD1	7:cB:440:ASN:N	2.48	0.47
7:cI:379:ALA:HB2	7:cI:454:TYR:HE2	1.79	0.47
7:cI:617:VAL:HG22	7:cI:622:GLU:HB2	1.96	0.47
7:cN:470:LEU:O	7:cN:474:ILE:HG12	2.15	0.47
7:dS:57:PRO:HB3	7:dS:62:ALA:HA	1.96	0.47
8:eU:113:THR:O	8:eU:298:ILE:HG12	2.14	0.47
8:eW:144:ASN:OD1	8:eW:144:ASN:N	2.29	0.47
8:f9:101:THR:OG1	8:f9:102:SER:N	2.47	0.47
8:f9:140:VAL:HG12	12:iD:372:VAL:HG22	1.96	0.47
8:fr:611:LEU:HD22	8:fr:615:LYS:HD2	1.97	0.47
8:fs:335:THR:OG1	8:fs:338:ARG:O	2.32	0.47
9:gE:566:THR:HG23	9:gG:558:SER:HA	1.96	0.47
9:gG:554:MET:N	9:gG:554:MET:SD	2.88	0.47
9:gH:20:ASP:OD1	9:gH:22:LEU:N	2.38	0.47
11:he:161:TYR:CD1	11:hf:96:GLY:HA2	2.50	0.47
11:hm:41:LEU:HD13	11:hn:142:LEU:HD22	1.97	0.47
11:hm:97:ASN:HA	11:hp:3:VAL:HG12	1.96	0.47
16:o0:213:PRO:HD2	16:o0:340:SER:O	2.14	0.47
16:o2:34:TYR:OH	16:o2:243:ALA:HA	2.14	0.47
16:o6:47:ASP:H	16:o6:56:ASP:HB2	1.79	0.47
17:q5:10:GLN:O	17:q5:12:ILE:N	2.48	0.47
1:S1:273:SER:OG	1:S2:257:THR:O	2.29	0.46
1:S2:446:LYS:H	1:S3:503:ASN:CG	2.24	0.46
1:S4:363:HIS:O	1:S4:396:ARG:NH2	2.48	0.46
1:S4:403:SER:N	1:S8:519:LEU:O	2.37	0.46
1:S4:405:ARG:NH2	1:S4:409:LEU:O	2.47	0.46
1:S6:7:GLN:HB2	1:S6:15:TYR:CE1	2.50	0.46
1:S8:162:PRO:HA	1:S8:165:THR:HG22	1.97	0.46
1:SA:442:MET:HA	1:Sy:512:THR:HA	1.95	0.46
1:SO:334:GLN:OE1	1:SP:330:ARG:NE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T3:86:ASP:HA	2:T3:110:ILE:HG13	1.97	0.46
2:T4:281:THR:O	2:T8:277:LYS:NZ	2.32	0.46
2:TF:84:ARG:HG2	2:TF:108:GLU:HB2	1.97	0.46
2:Tf:50:VAL:HG12	2:Tf:51:ALA:H	1.80	0.46
3:Vp:43:LEU:HD11	3:Vr:141:THR:HG22	1.96	0.46
3:Vs:35:VAL:HG13	3:Vs:58:ASP:HB2	1.96	0.46
4:WJ:13:ASP:O	5:YC:986:ARG:NH2	2.48	0.46
4:WJ:191:ILE:O	4:WK:164:ARG:NH2	2.37	0.46
4:WK:310:GLU:HB2	4:WK:384:THR:HB	1.96	0.46
4:Wk:279:SER:HB2	4:Wo:326:MET:HB2	1.97	0.46
4:Wk:290:SER:HB2	4:Wk:370:HIS:HA	1.96	0.46
4:Wk:359:GLU:HB3	4:Wk:370:HIS:HB3	1.97	0.46
4:Wl:213:GLY:O	4:Wl:221:GLU:HB2	2.15	0.46
4:Wm:4:ASN:HD21	4:Wo:27:ASN:HD21	1.61	0.46
4:Wn:204:ASP:OD1	4:Wn:204:ASP:N	2.45	0.46
4:Wo:192:ARG:HB2	4:Wo:245:GLU:HB2	1.96	0.46
4:Wo:290:SER:HB2	4:Wo:370:HIS:HA	1.97	0.46
4:Wo:320:LEU:HD23	4:Wo:358:VAL:HG23	1.96	0.46
4:XI:293:PHE:CE1	4:XI:366:PRO:HB2	2.49	0.46
4:XJ:150:GLN:CD	4:XJ:150:GLN:H	2.22	0.46
4:Xk:119:GLY:H	4:Xk:142:ARG:HH12	1.63	0.46
4:Xn:188:VAL:HG23	4:Xn:225:LEU:HD22	1.97	0.46
5:YC:307:ILE:HA	5:YC:391:ARG:NH1	2.30	0.46
5:YX:407:ASN:OD1	5:YX:407:ASN:N	2.48	0.46
5:YX:470:ALA:HA	6:Za:57:ALA:H	1.80	0.46
5:YX:560:TYR:HB2	5:YX:567:THR:HG23	1.96	0.46
5:YX:625:ASN:ND2	5:YX:627:GLU:OE2	2.28	0.46
5:YY:857:ARG:O	8:eW:368:LYS:NZ	2.42	0.46
5:YY:1009:ASN:O	5:YY:1010:LYS:HG2	2.16	0.46
5:Yc:81:ARG:HD2	5:Yc:94:TRP:HB3	1.95	0.46
5:Yc:694:TYR:HD2	5:Yc:696:ARG:HG2	1.79	0.46
5:Yx:138:ASN:O	5:Yx:555:ARG:NH1	2.38	0.46
5:Yy:615:THR:OG1	8:fB:617:GLU:OE2	2.32	0.46
6:ZZ:149:ASP:OD2	6:ZZ:152:GLU:N	2.41	0.46
6:Zb:39:ILE:HD11	6:Zb:328:ILE:HG21	1.96	0.46
6:aE:21:MET:HG3	6:aE:247:ILE:HG13	1.97	0.46
6:aZ:228:ASN:OD1	6:aZ:229:LEU:N	2.40	0.46
6:ab:170:PRO:HB3	6:ab:188:TRP:CD1	2.50	0.46
7:b3:103:ILE:HD13	7:b3:182:ILE:HG22	1.97	0.46
7:b3:410:PRO:O	7:b3:413:THR:HG22	2.14	0.46
7:b4:269:PHE:CE2	7:b4:280:ALA:HB1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b5:451:ASP:OD2	7:b5:470:LEU:HB3	2.14	0.46
7:b7:2:THR:OG1	7:b7:3:LEU:N	2.48	0.46
7:bN:39:PHE:HB3	7:bN:361:PHE:CE1	2.50	0.46
7:bO:317:LYS:HG2	7:bO:317:LYS:O	2.15	0.46
7:bQ:135:ASP:O	7:bQ:137:ASP:N	2.49	0.46
7:bQ:515:ASP:CG	7:bR:4:LEU:HB2	2.40	0.46
7:bR:379:ALA:HB2	7:bR:454:TYR:HE2	1.79	0.46
7:cA:118:VAL:HB	7:cA:126:GLU:HB3	1.98	0.46
7:cA:246:LYS:HB2	7:cA:250:ALA:HB2	1.97	0.46
7:cA:526:THR:OG1	7:cJ:366:GLU:OE1	2.33	0.46
7:cB:46:ASN:OD1	7:cB:47:GLU:N	2.49	0.46
7:cF:498:GLN:HA	7:cF:534:VAL:HG12	1.97	0.46
7:cG:253:PRO:HG2	7:cG:255:TYR:HE1	1.79	0.46
7:cG:451:ASP:OD2	7:cG:470:LEU:HB3	2.15	0.46
7:cH:24:THR:O	7:cH:483:ASN:ND2	2.29	0.46
7:cH:351:THR:OG1	7:cH:352:ALA:N	2.48	0.46
7:cI:148:ALA:O	7:cI:151:ILE:HG13	2.15	0.46
7:cI:240:SER:OG	7:cI:335:SER:OG	2.25	0.46
7:cI:642:PHE:CZ	7:cN:564:ILE:HD11	2.49	0.46
7:cJ:116:ILE:HD13	7:cJ:171:ILE:HG12	1.98	0.46
7:cL:454:TYR:HB3	7:cL:467:TRP:CD1	2.50	0.46
7:cO:43:GLN:NE2	7:cO:77:ASP:OD2	2.48	0.46
7:cO:151:ILE:O	7:cO:155:LYS:HG2	2.15	0.46
7:cO:614:THR:C	7:cO:616:SER:H	2.23	0.46
7:dS:436:TYR:O	7:dS:440:ASN:HB3	2.15	0.46
7:dT:488:TRP:O	7:dT:552:ASN:ND2	2.48	0.46
7:dU:264:THR:O	7:dU:266:LYS:N	2.47	0.46
7:dU:538:ASP:OD1	7:dU:538:ASP:N	2.48	0.46
7:dZ:193:ILE:HG21	7:dZ:223:VAL:HG11	1.96	0.46
7:dZ:592:LEU:HA	7:dZ:595:ILE:HG22	1.96	0.46
8:eU:227:ARG:HG2	8:eU:228:GLU:N	2.30	0.46
8:eU:227:ARG:HG2	8:eU:228:GLU:H	1.80	0.46
8:eU:437:GLU:HA	8:eU:440:ILE:HD11	1.97	0.46
8:eW:66:TYR:OH	14:k8:56:PRO:HG2	2.16	0.46
8:f9:372:ALA:HB2	8:f9:404:ILE:HD11	1.96	0.46
8:fA:629:ASP:OD1	8:fA:631:VAL:N	2.47	0.46
8:fU:462:SER:O	8:fU:466:THR:HG23	2.14	0.46
8:fr:484:MET:HE3	8:fr:632:ILE:HD12	1.96	0.46
9:gE:543:ASP:OD1	9:gE:544:TRP:N	2.48	0.46
11:h2:100:THR:HA	11:hL:119:ASP:OD1	2.15	0.46
11:hI:45:ILE:HG23	11:hI:65:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hL:58:ILE:HD11	17:q3:7:PHE:CE2	2.50	0.46
11:hl:45:ILE:HG23	11:hl:65:THR:O	2.16	0.46
11:ho:136:ASN:O	11:ho:136:ASN:ND2	2.36	0.46
11:hq:21:PHE:CG	11:hr:142:LEU:HD23	2.50	0.46
11:hz:72:THR:HB	11:hz:154:GLU:HG3	1.97	0.46
16:pB:6:GLU:HB2	16:pB:7:ILE:H	1.53	0.46
17:q8:99:SER:OG	17:q9:200:GLN:OE1	2.28	0.46
1:S1:371:ASP:OD1	1:S1:526:LYS:NZ	2.36	0.46
1:S1:464:ARG:HA	1:S3:480:ARG:NH1	2.30	0.46
1:S2:386:ASN:ND2	1:S2:389:ASN:HB2	2.29	0.46
1:S6:5:THR:HG21	4:Xl:200:LEU:HD13	1.97	0.46
1:S6:493:GLU:HG3	1:S6:496:ARG:HH21	1.80	0.46
1:S8:357:ASP:OD1	1:S8:357:ASP:N	2.49	0.46
1:SA:220:SER:HB3	1:Sy:230:LEU:HD13	1.97	0.46
1:SA:291:ARG:NH1	1:Sw:286:ASP:OD2	2.48	0.46
1:SA:309:ALA:HB3	1:Sy:303:GLU:HA	1.96	0.46
1:SA:363:HIS:CG	1:SA:396:ARG:HD3	2.50	0.46
1:SO:106:ALA:HA	1:SQ:118:PRO:HB3	1.97	0.46
1:SO:383:TYR:CG	1:SO:393:PRO:HG3	2.49	0.46
1:SP:14:ARG:HH21	1:SQ:21:THR:HG21	1.79	0.46
1:SP:127:ASN:O	1:SP:131:THR:HG23	2.15	0.46
1:SQ:171:LYS:HA	1:SQ:174:ALA:HB3	1.97	0.46
1:Sv:166:GLN:HA	1:Sv:170:ILE:HG13	1.97	0.46
1:Sw:480:ARG:NH1	1:Sy:463:THR:O	2.44	0.46
1:Sx:7:GLN:HB2	1:Sx:15:TYR:CE1	2.50	0.46
1:Sx:73:THR:HG23	1:Sx:74:LYS:HG3	1.97	0.46
1:Sy:5:THR:HG21	4:Wm:200:LEU:HD22	1.97	0.46
1:Sz:65:GLU:HG2	1:Sz:74:LYS:HE3	1.97	0.46
1:Sz:101:SER:C	1:Sz:120:LYS:HZ2	2.20	0.46
2:T5:14:GLU:O	2:T5:16:GLY:N	2.48	0.46
2:T6:70:HIS:HB2	2:T6:75:TYR:CE2	2.50	0.46
2:Tf:100:ARG:HB2	2:Tf:127:ILE:HG21	1.97	0.46
2:Th:89:THR:HG22	2:Th:94:VAL:HG13	1.97	0.46
3:Ur:13:ARG:O	3:Ur:17:PHE:HB2	2.15	0.46
3:Vq:3:LEU:HD23	4:Xo:380:ILE:HG12	1.96	0.46
3:Vu:167:VAL:HG22	3:Vu:182:ILE:HD11	1.98	0.46
4:WI:96:ARG:HD3	4:WI:151:ILE:HD11	1.97	0.46
4:WI:245:GLU:OE2	4:WK:192:ARG:NH2	2.49	0.46
4:WI:360:THR:HB	4:WI:365:ILE:O	2.15	0.46
4:WJ:496:ASP:HB3	4:WJ:500:ALA:HB2	1.97	0.46
4:Wj:113:SER:OG	4:Wj:114:GLY:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wj:138:CYS:HB3	4:Wj:142:ARG:HB3	1.97	0.46
4:Wk:188:VAL:HG23	4:Wk:225:LEU:HD22	1.96	0.46
4:Wk:454:TYR:O	4:Wk:600:ARG:NH1	2.42	0.46
4:Wm:193:VAL:HG13	4:Wm:199:GLU:HB3	1.97	0.46
4:Wn:189:ASN:ND2	4:Wn:249:ASP:OD2	2.48	0.46
4:XI:518:GLY:N	4:XK:594:THR:OG1	2.47	0.46
4:XJ:52:TYR:CE1	4:XJ:60:LEU:HD22	2.50	0.46
4:XJ:89:TYR:HA	4:XJ:137:TYR:HB3	1.96	0.46
4:XK:404:ASP:OD1	4:XK:404:ASP:N	2.47	0.46
4:Xj:20:ARG:HH12	4:Xj:24:ILE:HD12	1.80	0.46
4:Xj:26:ILE:HG13	4:XI:30:PHE:HE2	1.80	0.46
4:XI:12:ASP:OD2	5:Yx:985:GLU:N	2.49	0.46
4:XI:90:ASN:ND2	4:Xn:49:TRP:O	2.48	0.46
5:YX:929:TYR:O	5:YX:931:ASP:N	2.49	0.46
5:YY:138:ASN:O	5:YY:555:ARG:HD3	2.15	0.46
5:YY:240:GLN:HB3	5:YY:245:THR:HA	1.97	0.46
5:YY:437:ASP:OD1	5:YY:437:ASP:N	2.47	0.46
5:Yc:191:TYR:CD1	5:Yc:235:LYS:HA	2.50	0.46
5:Yc:204:ARG:HG3	5:Yc:205:TYR:H	1.80	0.46
5:Yx:516:TRP:HE1	5:Yx:518:LYS:HG2	1.79	0.46
5:Yy:865:LYS:HE2	5:Yy:867:LYS:HE2	1.98	0.46
6:aa:46:PRO:HA	6:aa:270:ARG:CZ	2.45	0.46
6:aa:286:ASN:OD1	6:aa:286:ASN:N	2.47	0.46
7:b4:107:GLY:HA3	7:b4:110:TYR:CE2	2.51	0.46
7:b6:400:ARG:HD3	7:b6:403:CYS:SG	2.55	0.46
7:b6:441:PHE:CZ	7:b6:443:ILE:HD11	2.50	0.46
7:b7:26:THR:HA	7:b7:77:ASP:O	2.15	0.46
7:bO:131:ILE:HD13	7:bO:140:ILE:HG21	1.97	0.46
7:bQ:404:LEU:HD22	7:bQ:404:LEU:HA	1.82	0.46
7:bR:15:VAL:HG21	7:dV:626:THR:HG21	1.96	0.46
7:bR:23:SER:OG	7:bR:74:TYR:O	2.32	0.46
7:bR:26:THR:HA	7:bR:77:ASP:O	2.15	0.46
7:cB:23:SER:O	7:cB:76:ASN:HB2	2.15	0.46
7:cB:220:PRO:HG2	7:cB:338:LEU:HD11	1.97	0.46
7:cF:135:ASP:HB3	7:cF:139:LYS:HB2	1.98	0.46
7:cG:646:ALA:O	7:cG:650:ASP:HB3	2.16	0.46
7:cO:198:ILE:HG23	7:cO:324:PHE:HE2	1.80	0.46
7:cP:29:LEU:O	7:cP:80:VAL:HA	2.15	0.46
7:cP:110:TYR:H	7:cP:138:GLY:CA	2.29	0.46
7:dS:400:ARG:HD3	7:dS:403:CYS:SG	2.55	0.46
7:dS:602:TYR:CE2	7:dS:632:ALA:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dT:459:ASP:OD2	7:dT:462:ASN:ND2	2.34	0.46
7:dU:15:VAL:HG21	15:mT:105:ILE:HG23	1.96	0.46
7:dU:494:TYR:O	7:dU:498:GLN:NE2	2.32	0.46
7:dW:423:VAL:HG21	7:dW:513:GLN:HB3	1.96	0.46
7:dW:635:ILE:HG23	15:m1:65:MET:SD	2.56	0.46
8:eB:231:ASP:OD1	8:eB:231:ASP:N	2.48	0.46
8:eB:351:GLU:HG2	8:f9:247:ALA:HB3	1.97	0.46
8:eU:543:THR:O	8:eU:597:TYR:OH	2.33	0.46
8:eU:566:ASN:O	8:eU:570:GLN:NE2	2.44	0.46
8:eW:341:THR:HA	8:fs:400:ASN:O	2.15	0.46
8:f9:214:MET:HE2	8:f9:214:MET:HB3	1.70	0.46
8:fA:508:ARG:NH1	8:fA:576:ASP:O	2.44	0.46
8:fR:543:THR:CG2	8:fR:552:LYS:H	2.27	0.46
8:fW:643:GLU:HB3	8:fW:646:LEU:HB2	1.96	0.46
8:fr:508:ARG:HH12	8:fr:576:ASP:C	2.23	0.46
9:gE:232:ASN:HB2	9:gG:407:PRO:HB3	1.96	0.46
9:gE:365:ASP:OD1	9:gE:365:ASP:N	2.46	0.46
9:gE:558:SER:HB3	9:gG:551:THR:HA	1.98	0.46
9:gH:1:MET:HE2	12:iF:248:MET:HE2	1.96	0.46
11:h1:56:ARG:HB3	11:h1:56:ARG:NH1	2.30	0.46
11:hJ:41:LEU:HD13	11:hK:142:LEU:HD22	1.96	0.46
11:hi:99:ILE:O	11:hm:120:ALA:HB2	2.14	0.46
11:hs:56:ARG:NH1	11:hs:56:ARG:HB3	2.30	0.46
14:k7:49:TYR:H	16:o0:25:THR:HG22	1.80	0.46
14:k7:183:ASP:O	14:k7:186:ARG:HG3	2.14	0.46
14:k8:94:TYR:CD1	14:k8:156:TYR:HB3	2.50	0.46
15:mT:14:GLU:O	15:mT:16:LYS:N	2.47	0.46
16:o2:307:LYS:HZ1	16:pA:248:GLY:HA2	1.80	0.46
16:o6:322:ASP:HB2	16:o6:343:THR:HG23	1.98	0.46
17:q4:178:VAL:HG11	17:q4:223:VAL:HG12	1.98	0.46
17:q5:99:SER:HB2	17:q8:200:GLN:OE1	2.15	0.46
17:q5:186:THR:HB	17:q5:188:LEU:HD22	1.96	0.46
17:q8:178:VAL:O	17:q8:181:VAL:HG12	2.14	0.46
1:S1:161:THR:O	1:S1:165:THR:HG22	2.16	0.46
1:S2:6:TYR:CE1	4:XJ:233:ARG:HD2	2.50	0.46
1:S2:132:ARG:HH21	1:S2:138:SER:HB3	1.81	0.46
1:S6:481:SER:N	1:S8:463:THR:OG1	2.49	0.46
1:S8:456:ASP:OD1	1:S8:462:ASN:ND2	2.32	0.46
1:SA:66:VAL:HG21	1:SA:80:THR:HB	1.96	0.46
1:SA:77:THR:HG22	1:SA:80:THR:H	1.80	0.46
1:SO:7:GLN:HB2	1:SO:15:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SO:12:GLU:HG3	1:SO:14:ARG:H	1.80	0.46
1:SO:193:LEU:HD11	1:SP:207:GLY:HA2	1.98	0.46
1:SO:255:SER:O	1:SO:278:SER:OG	2.21	0.46
1:SQ:240:ASN:HB3	1:SQ:243:VAL:HG22	1.97	0.46
1:Sv:66:VAL:HG21	1:Sv:80:THR:HB	1.97	0.46
1:Sv:89:ASN:C	1:Sv:96:GLY:HA3	2.40	0.46
1:Sw:192:GLN:HB2	1:Sy:188:GLN:HG3	1.97	0.46
1:Sx:418:ASP:OD1	1:Sx:422:LYS:N	2.48	0.46
1:Sy:99:ARG:HG2	1:Sy:100:TYR:H	1.80	0.46
2:T8:100:ARG:HG3	2:T8:158:SER:HB2	1.97	0.46
2:Te:181:ILE:HD11	2:Te:265:ILE:HG22	1.97	0.46
3:UL:90:PHE:HE1	3:UL:178:ILE:HG23	1.79	0.46
3:UM:94:VAL:HA	3:UM:174:TYR:O	2.16	0.46
3:Up:152:ASP:OD1	3:Up:153:GLY:N	2.48	0.46
3:VL:73:ASN:HA	3:VN:70:ILE:HG12	1.98	0.46
3:Vu:149:HIS:HB3	3:Vu:152:ASP:O	2.15	0.46
4:WK:146:VAL:HG21	4:WK:149:LYS:HD3	1.97	0.46
4:Wj:407:TYR:OH	4:Wn:403:THR:HA	2.15	0.46
4:Wm:409:SER:HA	4:Wo:407:TYR:HD1	1.81	0.46
4:Wo:52:TYR:HD2	4:Wo:70:ILE:HG23	1.79	0.46
4:Wo:89:TYR:CE1	4:Wo:139:ALA:HA	2.50	0.46
4:XK:63:GLU:OE1	4:XK:68:TYR:OH	2.33	0.46
4:XK:229:ASN:OD1	4:XK:230:ILE:N	2.49	0.46
4:Xj:18:TYR:CE1	4:Xj:20:ARG:HB3	2.49	0.46
4:Xj:19:LEU:HD11	5:Yx:996:ALA:HB3	1.97	0.46
4:Xk:535:THR:HG21	4:Xo:532:LEU:HD12	1.97	0.46
4:Xn:305:ASN:ND2	4:Xn:308:SER:HB3	2.30	0.46
5:YC:715:LEU:HD11	6:ZE:54:VAL:HG21	1.97	0.46
5:YX:113:MET:HE2	5:YX:612:TRP:CD1	2.49	0.46
5:YX:712:ASN:ND2	5:YX:720:ARG:HG3	2.29	0.46
5:YX:1009:ASN:OD1	5:YX:1009:ASN:N	2.44	0.46
5:YY:507:LYS:HZ3	5:YY:509:TYR:HA	1.80	0.46
5:YY:872:SER:O	5:YY:873:SER:OG	2.27	0.46
5:Yc:327:ARG:HG2	5:Yc:354:THR:H	1.80	0.46
5:Yc:473:TYR:HB2	6:ZD:59:PRO:HB2	1.97	0.46
5:Yc:799:GLU:HB3	5:Yc:810:THR:HG23	1.97	0.46
5:Yx:750:VAL:HG12	8:fU:257:ILE:HD12	1.96	0.46
5:Yy:138:ASN:O	5:Yy:555:ARG:HD3	2.15	0.46
5:Yy:329:ILE:HD11	5:Yy:350:PHE:HE1	1.80	0.46
5:Yy:980:GLY:C	5:Yy:983:PRO:HD2	2.41	0.46
6:ZZ:95:TRP:CH2	6:ZZ:169:PRO:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b0:614:THR:C	7:b0:616:SER:H	2.23	0.46
7:b4:57:PRO:HG3	7:b4:65:PHE:CD1	2.50	0.46
7:b4:108:SER:O	7:b4:177:GLY:HA2	2.14	0.46
7:b4:115:LYS:HE2	7:b4:128:GLU:HA	1.97	0.46
7:b6:350:VAL:HG13	7:b6:354:ASP:HB2	1.97	0.46
7:bQ:36:GLY:O	7:bQ:82:ARG:NH1	2.48	0.46
7:bR:514:ARG:NH1	7:dW:366:GLU:OE1	2.40	0.46
7:bY:313:ASP:HB3	7:cH:464:VAL:HG12	1.97	0.46
7:cA:572:LEU:HD12	7:cA:572:LEU:HA	1.75	0.46
7:cB:410:PRO:O	7:cB:413:THR:HG22	2.15	0.46
7:cC:41:ILE:HD11	7:cC:361:PHE:HB3	1.96	0.46
7:cC:118:VAL:HB	7:cC:126:GLU:HB3	1.96	0.46
7:cH:112:VAL:HG22	7:cH:134:VAL:HG22	1.97	0.46
7:cH:269:PHE:HE1	7:cH:282:ILE:HG12	1.79	0.46
7:cI:460:LYS:H	7:cI:460:LYS:HG3	1.46	0.46
7:cK:118:VAL:HB	7:cK:126:GLU:HB3	1.97	0.46
7:cM:455:LYS:HG3	7:cM:502:VAL:HG13	1.96	0.46
7:cN:118:VAL:HB	7:cN:126:GLU:HB3	1.97	0.46
7:cN:375:ALA:HB1	7:cN:390:GLN:HG2	1.98	0.46
7:cN:390:GLN:NE2	7:cN:408:SER:H	2.13	0.46
7:cO:527:GLY:HA2	7:cO:533:TYR:HD1	1.80	0.46
7:cP:557:PHE:CE1	7:cP:629:ILE:HD11	2.51	0.46
7:cP:574:GLU:HG2	7:cP:575:LEU:N	2.30	0.46
7:dT:494:TYR:O	7:dT:498:GLN:NE2	2.43	0.46
7:dZ:74:TYR:OH	7:dZ:500:LEU:N	2.47	0.46
8:eU:485:VAL:HG22	8:eU:624:TYR:HD1	1.80	0.46
8:fA:201:VAL:O	8:fA:203:GLY:N	2.48	0.46
8:fA:251:ALA:HB1	8:fB:336:GLN:O	2.15	0.46
8:fB:46:TYR:HB3	8:fB:53:LEU:HD23	1.97	0.46
8:fR:207:ILE:H	8:fR:207:ILE:HD12	1.80	0.46
8:fS:527:ASP:HB2	9:gG:247:ARG:HH11	1.79	0.46
8:fU:593:GLY:HA3	8:fU:604:TRP:HA	1.96	0.46
8:fW:223:ILE:HD13	8:fW:223:ILE:HA	1.72	0.46
11:h1:99:ILE:O	11:hK:120:ALA:HB2	2.15	0.46
11:hL:67:ASP:OD1	11:hL:67:ASP:N	2.46	0.46
11:hf:93:ALA:O	11:hf:100:THR:OG1	2.29	0.46
11:hg:61:ALA:HA	11:hh:133:TRP:CH2	2.50	0.46
11:hh:38:ALA:HB3	11:hh:72:THR:HG23	1.98	0.46
11:hk:96:GLY:O	11:hu:56:ARG:NH2	2.46	0.46
11:hs:85:PHE:CD2	11:hs:155:VAL:HG11	2.50	0.46
11:hy:67:ASP:OD1	11:hy:67:ASP:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hy:82:ARG:HH12	11:hy:138:GLY:HA2	1.80	0.46
14:k3:7:ASP:OD1	14:k3:7:ASP:N	2.47	0.46
14:k7:31:ASN:C	14:k7:33:LYS:H	2.22	0.46
14:lV:59:LEU:HD22	14:lV:86:TRP:HH2	1.80	0.46
16:o6:113:ASN:ND2	16:o6:113:ASN:O	2.48	0.46
17:q9:203:LEU:HB2	17:q9:212:THR:HG23	1.98	0.46
1:S0:5:THR:HA	4:Xm:196:ARG:HG3	1.96	0.46
1:S1:401:ARG:HB3	1:S3:399:PHE:CE1	2.49	0.46
1:S1:407:SER:N	1:S3:394:ASP:OD2	2.45	0.46
1:S3:166:GLN:HA	1:S3:170:ILE:HD12	1.97	0.46
1:S4:106:ALA:HB2	1:S4:120:LYS:HD2	1.97	0.46
1:S4:276:ASP:O	1:S4:279:SER:OG	2.33	0.46
1:S6:4:ASN:H	4:Xn:239:GLY:HA3	1.79	0.46
1:SP:47:VAL:O	1:SP:48:PRO:C	2.58	0.46
1:Sv:60:ILE:HD11	1:Sx:58:LEU:HD13	1.97	0.46
1:Sx:27:PRO:HA	1:Sx:29:ILE:HD11	1.97	0.46
1:Sx:99:ARG:HD2	1:Sz:95:TYR:HE1	1.80	0.46
2:T6:106:CYS:HB2	2:T6:149:ARG:NE	2.30	0.46
2:TF:213:LYS:HE3	2:TF:249:ILE:HG12	1.96	0.46
2:Ti:17:ASN:OD1	2:Ti:18:ALA:N	2.47	0.46
3:UL:171:TYR:HB2	4:WK:339:GLU:HB2	1.96	0.46
3:UM:42:GLN:OE1	3:UM:42:GLN:N	2.48	0.46
3:UN:65:LYS:O	3:UN:217:ARG:NH1	2.48	0.46
3:Ur:17:PHE:HZ	3:Ur:45:LYS:HB3	1.81	0.46
3:Us:52:ILE:HG23	3:Uu:56:ILE:HD11	1.96	0.46
3:Uu:126:VAL:HG21	3:Uu:154:SER:HA	1.98	0.46
3:VL:204:ASP:OD1	3:VN:200:THR:N	2.47	0.46
3:Vs:196:LEU:HG	3:Vs:216:GLU:HB2	1.97	0.46
3:Vu:126:VAL:HG21	3:Vu:154:SER:HA	1.96	0.46
4:WI:95:ALA:HB3	4:WI:133:LEU:HB2	1.96	0.46
4:WI:148:ASN:ND2	4:WI:156:SER:HA	2.31	0.46
4:WI:321:ALA:HA	4:WI:358:VAL:HB	1.97	0.46
4:WJ:311:VAL:HG13	4:WJ:320:LEU:HB2	1.97	0.46
4:WK:138:CYS:SG	4:WK:140:PRO:HD2	2.56	0.46
4:Wj:13:ASP:OD1	4:Wj:14:GLY:N	2.47	0.46
4:Wj:215:PRO:HG3	4:Wj:226:ASP:HB2	1.97	0.46
4:Wl:527:LEU:HB2	4:Wn:533:PRO:HD3	1.96	0.46
4:Wl:591:PRO:HA	4:Wn:520:GLY:O	2.16	0.46
4:Wo:419:ASP:HB3	4:Wo:436:VAL:HB	1.97	0.46
4:XI:96:ARG:HG3	4:XI:132:ASP:HA	1.98	0.46
4:XI:122:VAL:HG11	4:XJ:406:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:138:CYS:SG	4:XI:140:PRO:HD2	2.55	0.46
4:XI:407:TYR:CZ	4:XK:407:TYR:HD2	2.33	0.46
4:Xj:27:ASN:HD21	4:Xn:4:ASN:HD21	1.62	0.46
4:Xj:250:GLY:O	4:Xj:254:TRP:HD1	1.98	0.46
4:Xj:265:LEU:HG	4:Xj:379:ASP:HB2	1.97	0.46
4:Xk:96:ARG:HD3	4:Xk:151:ILE:HD11	1.96	0.46
4:Xo:18:TYR:HD2	4:Xo:21:LYS:HG2	1.79	0.46
5:YC:479:TRP:CD2	5:YC:505:PRO:HA	2.51	0.46
5:YC:680:GLY:HA3	8:f9:6:VAL:HG11	1.97	0.46
5:YC:816:LEU:O	6:ZE:201:ASN:ND2	2.48	0.46
5:YY:326:VAL:HG21	5:YY:406:LEU:HD21	1.96	0.46
5:YY:380:ILE:O	5:YY:401:LYS:HD2	2.16	0.46
5:YY:646:ARG:HB3	5:YY:669:GLU:HG3	1.96	0.46
5:YY:926:PRO:HB3	5:YY:965:LEU:HD12	1.98	0.46
5:Yy:589:LYS:NZ	5:Yy:591:SER:OG	2.37	0.46
5:Yy:793:CYS:SG	5:Yy:820:LEU:HD11	2.55	0.46
6:ZD:294:LYS:HB2	6:ZD:297:TYR:CZ	2.51	0.46
6:Za:313:GLU:HG3	6:Zc:10:ALA:HB2	1.96	0.46
6:Zb:19:GLU:O	6:Zb:23:ASN:ND2	2.48	0.46
6:Zc:181:GLU:HB2	6:Zc:182:PRO:HD3	1.95	0.46
6:aE:132:ARG:HG2	6:aE:189:GLU:HB3	1.98	0.46
6:aa:114:CYS:HA	6:aa:120:ASN:ND2	2.30	0.46
7:b0:264:THR:O	7:b0:266:LYS:N	2.48	0.46
7:b4:510:ARG:HG2	7:b4:511:GLN:H	1.81	0.46
7:b6:37:PRO:HG3	7:b6:226:TYR:CZ	2.50	0.46
7:b7:159:GLU:HB3	7:b7:163:LEU:HA	1.97	0.46
7:bN:29:LEU:O	7:bN:80:VAL:HA	2.15	0.46
7:bO:57:PRO:HB3	7:bO:65:PHE:HB3	1.97	0.46
7:bP:549:ASP:OD2	7:bQ:271:TYR:OH	2.20	0.46
7:cH:108:SER:O	7:cH:177:GLY:HA2	2.15	0.46
7:cH:379:ALA:O	7:cH:381:GLU:N	2.41	0.46
7:cI:614:THR:C	7:cI:616:SER:H	2.23	0.46
7:cK:526:THR:OG1	7:cK:527:GLY:N	2.46	0.46
7:cL:116:ILE:HD13	7:cL:171:ILE:HG12	1.98	0.46
7:cL:284:ARG:HG2	7:cL:289:ILE:HD13	1.97	0.46
7:cM:157:VAL:HG23	7:cM:159:GLU:H	1.79	0.46
7:cM:162:THR:O	7:cM:186:LYS:HB3	2.16	0.46
7:cM:228:GLY:HA2	7:cM:345:SER:CB	2.46	0.46
7:cO:110:TYR:H	7:cO:138:GLY:CA	2.27	0.46
7:cO:228:GLY:HA2	7:cO:345:SER:HB3	1.98	0.46
7:cO:351:THR:OG1	7:cO:352:ALA:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dT:417:ILE:H	7:dT:417:ILE:HD13	1.80	0.46
7:dV:609:ASP:OD2	17:q3:257:ARG:NH2	2.49	0.46
7:dW:35:TRP:O	7:dW:82:ARG:HD2	2.15	0.46
8:eB:67:ILE:HG21	8:f9:67:ILE:HG13	1.98	0.46
8:eW:240:GLU:O	8:eW:256:TYR:HB2	2.15	0.46
8:f9:544:ASP:HB2	8:f9:576:ASP:OD1	2.15	0.46
8:fA:374:ILE:HB	8:fA:408:ILE:HD13	1.98	0.46
8:fA:484:MET:HE1	8:fA:503:ASN:HB2	1.95	0.46
8:fU:303:ASN:N	8:fU:304:PRO:HD3	2.31	0.46
8:fU:323:GLU:O	8:fU:327:GLU:HG2	2.15	0.46
9:gH:326:ARG:O	9:gH:330:ILE:HG12	2.15	0.46
11:hX:131:GLY:O	11:hX:159:LEU:HA	2.16	0.46
11:he:85:PHE:CD2	11:he:155:VAL:HG11	2.50	0.46
11:hr:56:ARG:NH1	11:hr:56:ARG:HB3	2.31	0.46
11:hy:56:ARG:HB3	11:hy:56:ARG:NH1	2.31	0.46
12:iD:102:ASP:OD1	16:pB:194:ARG:NH1	2.48	0.46
14:k3:6:PHE:CD2	14:k3:30:ARG:HG3	2.51	0.46
14:kV:183:ASP:O	14:kV:186:ARG:HG3	2.15	0.46
16:o1:280:SER:HB2	16:o1:283:ASN:HB2	1.98	0.46
16:o6:34:TYR:OH	16:o6:243:ALA:HA	2.15	0.46
17:q5:230:TYR:CD2	17:q8:126:TYR:HA	2.51	0.46
1:S0:181:THR:O	1:S0:190:VAL:HG22	2.14	0.46
1:S1:5:THR:O	4:X1:196:ARG:NH1	2.46	0.46
1:S1:188:GLN:HB3	1:S3:190:VAL:HG23	1.96	0.46
1:S6:87:TYR:O	1:S6:87:TYR:CG	2.67	0.46
1:S8:360:ARG:HG3	1:S8:525:VAL:HG21	1.97	0.46
1:S8:473:LYS:HG2	4:Wn:363:ASN:HB2	1.98	0.46
1:SA:446:LYS:N	1:Sw:503:ASN:OD1	2.25	0.46
1:SA:478:ASP:OD1	1:SA:478:ASP:N	2.49	0.46
1:Sv:140:GLY:HA2	1:Sz:129:PHE:CE1	2.50	0.46
1:Sv:516:ASN:HB3	1:Sx:399:PHE:HB2	1.98	0.46
1:Sx:61:PRO:HD3	1:Sx:74:LYS:HB3	1.98	0.46
1:Sx:141:VAL:HG22	1:Sz:139:ASN:HB2	1.98	0.46
1:Sx:239:ASN:OD1	1:Sx:253:ARG:NH2	2.49	0.46
1:Sy:107:ILE:HD11	1:Sy:128:ALA:HB2	1.97	0.46
2:T1:284:ILE:HG12	2:T3:275:ALA:HB2	1.98	0.46
2:T4:82:GLY:O	2:T8:63:ALA:N	2.49	0.46
2:TG:109:PHE:HE2	2:TG:124:ILE:HG12	1.80	0.46
2:Tf:64:THR:HA	2:Th:84:ARG:HE	1.80	0.46
2:Tg:63:ALA:O	2:Ti:84:ARG:NE	2.48	0.46
2:Th:215:LYS:HE2	2:Th:237:VAL:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UL:35:VAL:HG13	3:UL:58:ASP:HB2	1.96	0.46
3:VL:3:LEU:HA	3:VL:6:ASN:HB2	1.97	0.46
3:VL:23:LYS:HB3	3:VL:26:ASP:HB2	1.97	0.46
4:WI:99:PHE:HA	4:WK:138:CYS:SG	2.55	0.46
4:WI:138:CYS:HB3	4:WI:142:ARG:HB3	1.96	0.46
4:WI:290:SER:HB2	4:WI:370:HIS:HA	1.97	0.46
4:Wn:139:ALA:HB3	4:Wn:140:PRO:HD3	1.98	0.46
4:Wn:215:PRO:HG3	4:Wn:226:ASP:HB2	1.98	0.46
4:Wo:18:TYR:HD2	4:Wo:21:LYS:HG2	1.80	0.46
4:Wo:186:TYR:HB3	4:Wo:227:GLY:O	2.15	0.46
4:Wo:556:GLN:HG2	5:YY:206:GLN:HG3	1.98	0.46
4:XJ:350:GLU:N	4:XJ:350:GLU:OE1	2.49	0.46
4:XK:96:ARG:NH1	4:XK:132:ASP:OD2	2.49	0.46
4:XK:293:PHE:HB2	4:XK:296:PHE:CG	2.50	0.46
4:XK:563:GLY:N	4:XK:564:PRO:HD3	2.31	0.46
4:Xj:187:ASN:ND2	4:Xj:247:PHE:O	2.32	0.46
4:Xj:192:ARG:HB2	4:Xj:245:GLU:O	2.16	0.46
4:Xj:311:VAL:HG13	4:Xj:320:LEU:HB2	1.98	0.46
4:Xk:180:VAL:HG13	4:Xk:181:PHE:H	1.81	0.46
4:Xk:199:GLU:HA	4:Xm:196:ARG:HH21	1.79	0.46
4:Xk:279:SER:HB2	4:Xo:326:MET:HE3	1.96	0.46
4:Xl:18:TYR:HB3	4:Xl:21:LYS:H	1.80	0.46
4:Xl:150:GLN:CD	4:Xl:150:GLN:H	2.23	0.46
4:Xl:560:ASP:OD2	5:Yx:210:LYS:NZ	2.37	0.46
4:Xm:150:GLN:OE1	4:Xm:155:THR:OG1	2.22	0.46
4:Xm:213:GLY:O	4:Xm:214:SER:OG	2.28	0.46
4:Xn:293:PHE:HB2	4:Xn:296:PHE:CG	2.50	0.46
5:YX:449:LYS:HD2	6:Za:74:HIS:NE2	2.30	0.46
5:YY:486:HIS:HB2	6:aZ:305:HIS:CE1	2.50	0.46
5:YY:646:ARG:HG3	5:YY:647:PRO:HD3	1.98	0.46
5:YY:653:MET:HB3	5:YY:658:LEU:HD11	1.98	0.46
5:YY:923:SER:OG	5:YY:986:ARG:HG2	2.16	0.46
5:Yx:326:VAL:HG13	5:Yx:355:MET:HB3	1.98	0.46
5:Yx:364:VAL:HG21	5:Yx:396:ILE:HG12	1.97	0.46
5:Yx:957:PRO:O	5:Yx:958:MET:HG2	2.15	0.46
5:Yy:138:ASN:O	5:Yy:555:ARG:NH1	2.38	0.46
5:Yy:198:ILE:HG12	5:Yy:213:ASN:HB2	1.98	0.46
5:Yy:285:LEU:HD23	5:Yy:287:LEU:HD23	1.96	0.46
5:Yy:300:LEU:HB2	5:Yy:350:PHE:CE1	2.51	0.46
5:Yy:793:CYS:HB3	5:Yy:813:ILE:HD12	1.98	0.46
6:aZ:117:ALA:O	6:aZ:121:ALA:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b9:107:GLY:HA3	7:b9:110:TYR:CE2	2.50	0.46
7:b9:536:TYR:HD1	7:b9:536:TYR:HA	1.68	0.46
7:bN:623:PHE:HD2	7:cL:638:ILE:HG23	1.80	0.46
7:bQ:378:CYS:HB2	7:bQ:410:PRO:HA	1.98	0.46
7:bQ:612:ASN:HB3	7:bQ:624:VAL:HG23	1.98	0.46
7:bR:29:LEU:O	7:bR:80:VAL:HA	2.16	0.46
7:bY:247:GLY:HA2	7:bY:266:LYS:HG3	1.98	0.46
7:bY:403:CYS:O	7:bY:558:ASN:ND2	2.49	0.46
7:cA:614:THR:C	7:cA:616:SER:H	2.24	0.46
7:cB:467:TRP:CH2	7:cK:199:GLU:HB2	2.51	0.46
7:cC:644:ALA:O	7:cC:645:THR:OG1	2.33	0.46
7:cE:16:GLN:HE21	7:cE:16:GLN:HB2	1.47	0.46
7:cF:647:THR:O	7:cG:630:GLN:NE2	2.49	0.46
7:cJ:372:LEU:HD21	7:cJ:478:CYS:HB2	1.97	0.46
7:cM:359:TRP:HZ3	7:cM:373:PHE:HD2	1.64	0.46
7:dS:133:GLU:HG2	7:dS:141:LYS:HG3	1.98	0.46
8:eU:569:ILE:HD13	8:eU:609:ILE:HA	1.97	0.46
8:eW:463:LYS:HA	8:eW:466:THR:HG23	1.97	0.46
8:f9:539:ARG:HD3	8:f9:580:LEU:HD23	1.98	0.46
8:f9:543:THR:OG1	8:f9:576:ASP:OD2	2.34	0.46
8:fA:255:ASN:N	8:fA:255:ASN:OD1	2.47	0.46
8:fA:484:MET:HE3	8:fA:632:ILE:HD12	1.97	0.46
8:fB:59:LEU:HD23	8:fB:60:LEU:HD23	1.98	0.46
8:fB:164:ARG:NH2	8:fB:305:ASN:OD1	2.45	0.46
8:fB:292:LEU:HB3	8:fB:295:ILE:HB	1.98	0.46
8:fB:318:ASP:OD1	8:fB:318:ASP:N	2.47	0.46
8:fB:363:PHE:CG	8:fB:636:ASP:HB2	2.51	0.46
8:fB:509:SER:HB2	8:fB:626:ASP:H	1.80	0.46
9:gG:556:SER:OG	9:gH:549:ASP:OD1	2.32	0.46
11:h1:19:ASN:OD1	11:h1:19:ASN:N	2.39	0.46
11:hI:120:ALA:HB1	11:hX:1:MET:HE2	1.96	0.46
11:he:7:THR:HA	11:he:10:PHE:CE1	2.51	0.46
11:hg:140:LEU:HD13	11:hg:153:PHE:HB3	1.97	0.46
11:hk:54:MET:HE1	11:hq:22:GLN:HG3	1.98	0.46
11:hy:39:THR:HG22	11:hy:71:VAL:HG13	1.98	0.46
11:hy:82:ARG:NH1	11:hy:138:GLY:HA2	2.30	0.46
12:iD:123:PRO:HA	12:iD:161:PRO:HA	1.98	0.46
12:iF:51:MET:HG2	16:pA:162:LEU:HD13	1.98	0.46
15:m5:101:ASP:OD1	15:m5:101:ASP:N	2.40	0.46
16:pA:158:ALA:HA	16:pA:162:LEU:HD21	1.96	0.46
16:pB:56:ASP:OD1	16:pB:56:ASP:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q4:144:ASN:O	17:q4:145:SER:OG	2.32	0.46
1:S0:289:GLN:HG2	1:S0:291:ARG:H	1.79	0.46
1:S1:140:GLY:HA2	1:S3:129:PHE:HE1	1.80	0.46
1:S2:303:GLU:HA	1:S3:309:ALA:HB3	1.98	0.46
1:S6:386:ASN:ND2	1:S6:389:ASN:HB2	2.28	0.46
1:SP:89:ASN:OD1	1:SP:90:ALA:N	2.49	0.46
1:SQ:487:GLY:HA3	1:SQ:508:ILE:HG21	1.98	0.46
1:Sw:99:ARG:HH21	1:Sw:111:ASN:HD22	1.61	0.46
1:Sx:100:TYR:H	1:Sz:92:GLU:HA	1.81	0.46
1:Sx:116:ILE:HG23	1:Sx:120:LYS:HB2	1.96	0.46
1:Sx:142:ILE:HG21	1:Sx:157:THR:O	2.15	0.46
1:Sy:175:GLN:HG2	3:Ur:205:ASN:HB2	1.98	0.46
2:T6:8:LYS:HD3	2:T6:30:LYS:HG2	1.98	0.46
2:T8:86:ASP:HA	2:T8:110:ILE:HG13	1.97	0.46
2:TH:85:HIS:HB2	2:TH:109:PHE:HD1	1.81	0.46
2:Tg:32:ASN:O	2:Tg:36:ASN:ND2	2.49	0.46
3:UL:62:PHE:CD1	3:UM:190:TYR:HB3	2.51	0.46
3:UM:103:SER:H	3:UM:118:THR:HG1	1.59	0.46
3:Uq:143:ILE:HD11	3:Uu:40:ILE:HD13	1.97	0.46
3:Ur:87:TYR:CE1	3:Ur:157:GLU:HB2	2.50	0.46
3:Uu:193:TRP:CZ3	3:Uu:217:ARG:HB2	2.50	0.46
3:VL:88:TRP:O	3:VL:155:LYS:HA	2.16	0.46
4:WJ:128:VAL:HG11	4:WJ:150:GLN:HG2	1.98	0.46
4:WJ:326:MET:HE3	4:WJ:326:MET:HB2	1.72	0.46
4:Wj:174:GLN:HE21	4:Wj:177:PHE:HE1	1.62	0.46
4:Wj:360:THR:HB	4:Wj:365:ILE:O	2.14	0.46
4:Wj:463:ALA:HB2	4:Wl:459:ILE:HD11	1.97	0.46
4:Wm:89:TYR:CE1	4:Wm:139:ALA:HA	2.51	0.46
4:XI:422:LEU:HD21	4:XK:464:VAL:HG21	1.97	0.46
4:XJ:64:TRP:CE3	4:XJ:64:TRP:HA	2.50	0.46
4:XJ:117:ILE:HG22	4:XJ:143:TRP:HB2	1.97	0.46
4:XJ:146:VAL:O	4:XJ:148:ASN:N	2.49	0.46
4:XK:23:GLY:O	4:XK:25:LYS:N	2.43	0.46
4:Xn:428:ILE:HG21	4:Xn:599:ILE:HD13	1.98	0.46
4:Xo:563:GLY:N	4:Xo:564:PRO:HD3	2.31	0.46
5:YC:201:LEU:HD22	5:YC:219:TRP:CZ3	2.51	0.46
5:YX:119:ALA:O	5:YX:123:ILE:HG22	2.15	0.46
5:YX:348:ARG:H	5:YX:348:ARG:HG2	1.44	0.46
5:YX:963:TYR:CD1	5:YX:964:PRO:HD2	2.51	0.46
5:Yc:1027:GLN:NE2	6:aD:315:ARG:HH22	2.13	0.46
5:Yx:183:VAL:HA	5:Yx:210:LYS:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:993:LEU:C	5:Yx:995:ASP:H	2.23	0.46
5:Yy:225:PHE:CE1	5:Yy:294:PHE:HB2	2.51	0.46
6:ZD:46:PRO:HA	6:ZD:270:ARG:CZ	2.46	0.46
6:ZE:197:ASP:OD1	6:ZE:197:ASP:N	2.48	0.46
6:ZZ:87:ASP:HB3	6:ZZ:209:VAL:HG13	1.97	0.46
6:Zc:114:CYS:HA	6:Zc:120:ASN:ND2	2.31	0.46
6:aE:42:GLY:HA2	6:aE:76:MET:HG3	1.97	0.46
6:ab:115:ASN:N	6:ab:120:ASN:OD1	2.49	0.46
6:ab:313:GLU:O	6:ab:314:ASN:ND2	2.48	0.46
7:b3:46:ASN:OD1	7:b3:47:GLU:N	2.49	0.46
7:b4:644:ALA:O	7:b4:645:THR:OG1	2.33	0.46
7:b5:247:GLY:HA2	7:b5:266:LYS:HG3	1.96	0.46
7:b5:614:THR:C	7:b5:616:SER:H	2.24	0.46
7:b6:230:LEU:HD21	7:b6:285:ARG:HD2	1.98	0.46
7:b6:240:SER:OG	7:b6:243:ASP:OD1	2.34	0.46
7:b8:366:GLU:H	7:b8:366:GLU:HG3	1.57	0.46
7:bP:46:ASN:OD1	7:bP:47:GLU:N	2.43	0.46
7:cA:101:TYR:OH	7:cA:216:LYS:O	2.33	0.46
7:cA:438:ASP:OD1	7:cA:438:ASP:N	2.44	0.46
7:cB:44:VAL:HG11	7:cB:50:LEU:HB2	1.96	0.46
7:cC:12:GLU:HG3	7:cH:548:PHE:CE2	2.50	0.46
7:cE:473:ASP:HB3	7:cE:499:ILE:HG23	1.98	0.46
7:cH:484:VAL:HG13	7:cH:485:SER:H	1.81	0.46
7:cI:510:ARG:HG2	7:cI:511:GLN:H	1.80	0.46
7:cI:526:THR:OG1	7:cI:527:GLY:N	2.49	0.46
7:cJ:35:TRP:O	7:cJ:54:PHE:HA	2.16	0.46
7:cJ:455:LYS:HD3	7:cJ:502:VAL:HG22	1.98	0.46
7:cJ:487:THR:HG21	7:cJ:559:MET:HE3	1.98	0.46
7:cM:154:ALA:HA	7:cM:157:VAL:HG22	1.98	0.46
7:cN:440:ASN:HD22	7:cN:442:ASN:HB2	1.81	0.46
7:cN:644:ALA:O	7:cN:645:THR:OG1	2.34	0.46
7:cP:430:ARG:HG3	7:cP:522:ILE:HD11	1.98	0.46
7:dS:7:GLY:HA3	7:dZ:515:ASP:OD1	2.16	0.46
7:dU:107:GLY:HA3	7:dU:110:TYR:HE2	1.80	0.46
7:dU:169:ALA:HB2	7:dU:184:LEU:HD11	1.98	0.46
7:dW:455:LYS:HD2	7:dW:457:GLN:HB2	1.97	0.46
7:dZ:490:SER:OG	7:dZ:538:ASP:OD2	2.21	0.46
8:eB:209:TRP:HB2	8:eB:223:ILE:HG23	1.97	0.46
8:eU:363:PHE:CD2	8:eU:636:ASP:HB2	2.50	0.46
8:eW:545:ARG:CG	8:eW:549:GLY:HA2	2.44	0.46
8:f9:384:LEU:O	8:f9:389:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fS:169:GLN:HE21	8:fS:276:ASN:HB3	1.80	0.46
8:fW:318:ASP:N	8:fW:318:ASP:OD1	2.47	0.46
8:fW:476:ILE:HG22	8:fr:631:VAL:HG11	1.98	0.46
9:gE:1:MET:HE3	12:iC:273:ASN:HD22	1.80	0.46
9:gE:192:TRP:CH2	9:gE:214:MET:HE2	2.51	0.46
9:gG:39:ARG:NH2	9:gG:112:GLU:O	2.48	0.46
9:gG:254:ARG:NH1	9:gG:255:ASP:OD1	2.49	0.46
9:gH:200:ILE:HD13	9:gH:236:ILE:HD12	1.96	0.46
11:hM:43:ALA:O	11:hM:162:TRP:NE1	2.44	0.46
11:hX:1:MET:HE1	11:hw:54:MET:HE2	1.98	0.46
11:hX:137:VAL:HB	11:hX:155:VAL:HG13	1.98	0.46
11:hm:82:ARG:HH11	11:hm:138:GLY:HA2	1.80	0.46
11:hw:161:TYR:CD1	11:hx:96:GLY:HA2	2.50	0.46
16:o0:277:MET:SD	16:pA:174:LEU:HB3	2.55	0.46
16:o2:121:LYS:HE3	16:o2:121:LYS:HB3	1.67	0.46
17:q3:101:LEU:O	17:q5:257:ARG:HB3	2.15	0.46
17:q7:218:MET:HA	17:q7:245:TYR:HA	1.97	0.46
1:S1:469:VAL:HA	1:S3:476:ASP:O	2.15	0.46
1:S2:320:ARG:HG2	1:S3:325:TYR:HB2	1.98	0.46
1:S2:368:SER:HB3	1:S2:371:ASP:HB3	1.97	0.46
1:S4:100:TYR:CE2	1:S6:113:GLU:HA	2.51	0.46
1:S4:155:ASP:HA	1:S8:163:LEU:HB2	1.98	0.46
1:S6:192:GLN:OE1	1:S8:188:GLN:NE2	2.49	0.46
1:S8:171:LYS:HB3	1:S8:175:GLN:NE2	2.31	0.46
1:S8:330:ARG:NH1	1:S8:331:ILE:O	2.49	0.46
1:SA:62:THR:HG23	1:SA:64:GLN:H	1.81	0.46
1:SA:438:GLN:HB2	1:Sy:516:ASN:OD1	2.16	0.46
1:Sy:170:ILE:O	1:Sy:174:ALA:CB	2.63	0.46
1:Sz:51:SER:OG	1:Sz:52:SER:N	2.48	0.46
2:T3:89:THR:HG22	2:T3:94:VAL:HG13	1.98	0.46
2:T3:193:HIS:HB3	2:T3:196:GLU:HG3	1.97	0.46
2:T4:165:GLU:HB3	2:T8:171:LYS:HB2	1.97	0.46
2:TH:166:SER:O	2:TH:171:LYS:NZ	2.36	0.46
2:Td:201:LYS:NZ	2:Td:220:ASN:OD1	2.41	0.46
2:Td:204:VAL:HG22	2:Td:276:VAL:HG22	1.97	0.46
2:Tf:50:VAL:O	2:Tf:52:ASN:N	2.45	0.46
2:Th:86:ASP:HA	2:Th:110:ILE:HG13	1.96	0.46
3:Up:193:TRP:CZ3	3:Up:217:ARG:HB2	2.50	0.46
3:Ur:30:MET:O	3:Ur:32:ARG:HG2	2.16	0.46
3:VM:149:HIS:CD2	3:VM:150:PRO:HD2	2.50	0.46
3:VM:199:GLN:HG2	3:VM:201:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:207:SER:O	4:WI:210:SER:OG	2.28	0.46
4:WI:594:THR:OG1	4:WJ:517:GLY:N	2.49	0.46
4:WJ:314:ASN:N	4:WJ:380:ILE:O	2.36	0.46
4:Wj:65:GLY:O	4:Wl:45:SER:N	2.46	0.46
4:XJ:565:ILE:HD13	5:Yc:223:LYS:HB2	1.97	0.46
4:XK:153:LYS:HD2	4:XK:153:LYS:H	1.80	0.46
4:Xj:30:PHE:O	4:Xj:34:TYR:HB2	2.16	0.46
4:Xj:419:ASP:HB3	4:Xj:436:VAL:HB	1.97	0.46
4:Xk:335:ASP:N	4:Xk:335:ASP:OD1	2.49	0.46
4:Xl:293:PHE:HD2	4:Xl:298:LEU:HD11	1.79	0.46
4:Xm:19:LEU:HA	5:Yy:921:TRP:HE1	1.80	0.46
4:Xm:372:ASP:OD1	4:Xm:372:ASP:N	2.48	0.46
4:Xo:60:LEU:HD21	4:Xo:79:ILE:HG22	1.97	0.46
4:Xo:333:GLY:HA3	4:Xo:352:SER:HB3	1.98	0.46
4:Xo:422:LEU:HD12	4:Xo:601:ILE:HA	1.98	0.46
5:Yc:1011:ARG:NH2	5:Yc:1013:LYS:HD3	2.30	0.46
5:Yx:719:LYS:HD2	5:Yx:719:LYS:HA	1.77	0.46
6:ZZ:92:ARG:HD2	6:ZZ:208:ILE:HG23	1.98	0.46
6:aZ:44:SER:HB3	6:aZ:76:MET:SD	2.56	0.46
6:ab:333:THR:O	6:ab:333:THR:OG1	2.28	0.46
6:ac:282:LYS:HD2	6:ac:287:ASP:HB2	1.98	0.46
7:b3:44:VAL:HG11	7:b3:50:LEU:HB2	1.98	0.46
7:b6:115:LYS:HE2	7:b6:128:GLU:HA	1.96	0.46
7:b8:386:ALA:O	7:b8:390:GLN:NE2	2.30	0.46
7:b9:134:VAL:HG12	7:b9:140:ILE:HA	1.98	0.46
7:bO:69:MET:O	7:bO:73:GLN:HG2	2.16	0.46
7:bO:572:LEU:HD12	7:bO:572:LEU:HA	1.82	0.46
7:bP:451:ASP:OD2	7:bP:470:LEU:HB3	2.16	0.46
7:cB:152:ALA:O	7:cB:156:GLU:HG2	2.16	0.46
7:cC:429:TRP:CZ2	7:cC:441:PHE:HB2	2.50	0.46
7:cE:28:ALA:HB2	7:cE:370:VAL:HG21	1.96	0.46
7:cE:135:ASP:HB3	7:cE:139:LYS:HB2	1.98	0.46
7:cF:116:ILE:HD11	7:cF:131:ILE:HG13	1.97	0.46
7:cF:229:GLU:H	7:cF:229:GLU:HG2	1.36	0.46
7:cH:19:VAL:HG21	7:cP:655:THR:HB	1.98	0.46
7:cI:264:THR:O	7:cI:266:LYS:N	2.49	0.46
7:cK:494:TYR:CZ	7:cP:569:LYS:HD2	2.51	0.46
7:cL:451:ASP:OD2	7:cL:470:LEU:HB3	2.16	0.46
7:cO:32:LYS:HD2	7:cO:355:LEU:HD21	1.97	0.46
7:dS:66:MET:HG2	7:dS:468:VAL:HG21	1.97	0.46
7:dS:238:ILE:HG23	7:dS:281:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dU:29:LEU:O	7:dU:80:VAL:HA	2.15	0.46
8:eW:508:ARG:NH1	8:eW:576:ASP:O	2.48	0.46
8:f9:8:TYR:CE2	8:f9:10:LEU:HA	2.50	0.46
8:f9:195:ASN:OD1	8:f9:352:ARG:NH1	2.48	0.46
8:fA:612:THR:H	8:fA:615:LYS:HE3	1.79	0.46
8:fB:447:TYR:HB2	8:fB:467:TYR:CG	2.51	0.46
8:fS:53:LEU:HD22	15:m2:23:VAL:HG23	1.97	0.46
8:fS:323:GLU:HG2	8:fS:450:GLU:HG2	1.98	0.46
8:fU:123:ILE:HD12	8:fU:123:ILE:HA	1.77	0.46
8:fU:246:ASN:OD1	8:fU:246:ASN:N	2.49	0.46
8:fW:592:ILE:O	8:fW:608:LYS:HD2	2.16	0.46
8:fr:612:THR:H	8:fr:615:LYS:HE3	1.80	0.46
9:gH:12:VAL:HG21	12:iD:256:HIS:CE1	2.49	0.46
11:hf:56:ARG:HB3	11:hf:56:ARG:NH1	2.30	0.46
11:hi:61:ALA:HA	11:ht:133:TRP:CH2	2.51	0.46
11:hl:69:TRP:HB2	11:hl:159:LEU:HD23	1.96	0.46
12:iC:223:ILE:HD12	12:iC:230:LEU:HD12	1.97	0.46
12:iC:340:ASP:OD1	12:iC:341:GLU:HG3	2.16	0.46
15:m2:12:ASP:OD1	15:m2:13:PRO:HD2	2.16	0.46
15:m6:85:GLU:OE2	15:m6:87:ARG:NE	2.38	0.46
15:mT:22:ASP:OD1	15:mT:22:ASP:N	2.48	0.46
15:mT:57:LEU:HD11	15:mT:73:VAL:HG13	1.98	0.46
16:o2:7:ILE:H	16:o2:7:ILE:HD12	1.79	0.46
16:pA:87:SER:O	16:pA:88:SER:HB3	2.15	0.46
16:pA:181:ILE:C	16:pA:183:ALA:H	2.22	0.46
16:pB:244:ALA:HB1	16:pB:250:LEU:HD23	1.97	0.46
17:q3:211:HIS:CE1	17:q3:212:THR:HG22	2.51	0.46
17:q7:23:SER:OG	17:q7:202:ASN:ND2	2.43	0.46
17:q8:134:ARG:NE	17:q8:154:GLU:OE1	2.38	0.46
18:rf:14:UNK:O	18:rf:16:UNK:N	2.49	0.46
1:S1:441:GLN:N	1:S3:513:ARG:O	2.47	0.46
1:S1:477:TRP:O	1:S2:467:ASN:HA	2.16	0.46
1:S2:341:ILE:HG13	1:S3:341:ILE:HD11	1.98	0.46
1:S4:46:GLY:O	1:S4:47:VAL:HB	2.15	0.46
1:S6:40:SER:HB3	1:S8:24:ASN:HB2	1.98	0.46
1:S8:58:LEU:HD11	1:S8:75:ALA:HB2	1.97	0.46
1:SO:77:THR:HG22	1:SO:80:THR:H	1.81	0.46
1:SO:77:THR:HG23	1:SO:79:ALA:H	1.79	0.46
1:SO:125:LEU:HB2	1:SQ:121:PHE:HZ	1.81	0.46
1:SO:291:ARG:HH22	1:SP:269:ALA:HB3	1.81	0.46
1:SO:346:ILE:HB	1:SQ:348:MET:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SP:210:ILE:O	1:SQ:210:ILE:HG22	2.16	0.46
1:Sv:279:SER:HB2	1:Sz:283:TRP:CD1	2.51	0.46
2:T9:102:GLU:N	2:T9:105:ASP:OD2	2.39	0.46
2:TF:85:HIS:HB2	2:TF:109:PHE:HD1	1.81	0.46
2:Te:116:ILE:HD13	2:Te:122:LEU:HB2	1.98	0.46
2:Th:202:LEU:HB3	2:Th:278:VAL:HG22	1.97	0.46
3:VN:110:PHE:H	3:VN:171:TYR:HH	1.61	0.46
3:Vs:88:TRP:O	3:Vs:155:LYS:HA	2.15	0.46
4:WI:577:ASN:ND2	4:WJ:529:ASN:OD1	2.46	0.46
4:Wj:315:GLY:HA2	4:Wn:317:LEU:O	2.16	0.46
4:Wk:594:THR:OG1	4:Wm:517:GLY:N	2.49	0.46
4:Wl:194:LYS:HA	4:Wl:199:GLU:H	1.81	0.46
4:Wm:311:VAL:HG22	4:Wm:320:LEU:HD22	1.98	0.46
4:Wm:594:THR:OG1	4:Wo:518:GLY:N	2.44	0.46
4:Wn:305:ASN:HB3	4:Wn:388:ASN:HB2	1.98	0.46
4:Wn:563:GLY:N	4:Wn:564:PRO:HD3	2.31	0.46
4:Wo:305:ASN:HD21	4:Wo:308:SER:HB3	1.81	0.46
4:Xl:312:ARG:HG2	4:Xl:317:LEU:HA	1.97	0.46
4:XK:305:ASN:HD21	4:XK:308:SER:HB3	1.81	0.46
4:Xj:326:MET:HE3	4:Xj:326:MET:HB2	1.57	0.46
4:Xk:72:THR:HB	4:Xk:105:ASN:HB3	1.98	0.46
4:Xk:214:SER:HB2	4:Xk:215:PRO:HD2	1.98	0.46
4:Xl:154:ILE:C	4:Xl:155:THR:HG1	2.22	0.46
4:Xl:354:THR:HG21	4:Xl:370:HIS:ND1	2.30	0.46
4:Xm:265:LEU:HB3	4:Xm:281:TYR:HB3	1.96	0.46
4:Xo:89:TYR:CE1	4:Xo:139:ALA:HA	2.51	0.46
4:Xo:195:HIS:NE2	4:Xo:232:LEU:HD21	2.30	0.46
4:Xo:323:THR:N	4:Xo:358:VAL:O	2.48	0.46
5:YX:43:THR:HG23	5:YX:50:PRO:HG3	1.98	0.46
5:YX:653:MET:HE3	8:eU:55:VAL:HG12	1.97	0.46
5:YX:871:PRO:HA	5:YX:894:THR:HB	1.97	0.46
5:YY:919:TYR:CZ	5:YY:1005:ARG:HB2	2.51	0.46
5:YY:946:SER:C	5:YY:948:THR:H	2.23	0.46
5:Yc:65:ASN:OD1	5:Yc:65:ASN:N	2.45	0.46
5:Yc:376:PHE:HB3	5:Yc:405:VAL:HG22	1.96	0.46
5:Yc:506:MET:HE3	6:ZE:176:ALA:HB2	1.97	0.46
5:Yc:703:TYR:OH	5:Yc:725:ARG:NH2	2.39	0.46
5:Yc:872:SER:H	5:Yc:894:THR:HG21	1.81	0.46
5:Yx:714:TYR:OH	5:Yx:749:LYS:O	2.29	0.46
5:Yx:1027:GLN:HA	6:ab:6:VAL:O	2.15	0.46
6:ZD:309:MET:HE2	6:ZD:312:MET:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aa:137:PRO:HG3	6:aa:185:GLY:HA3	1.97	0.46
6:ab:88:ALA:HA	6:ab:246:THR:O	2.16	0.46
7:b0:538:ASP:OD1	7:b0:538:ASP:N	2.48	0.46
7:b0:641:ASN:HB2	7:cI:626:THR:HG22	1.98	0.46
7:b7:108:SER:OG	7:b7:109:ASN:OD1	2.30	0.46
7:b8:467:TRP:CZ3	7:cC:199:GLU:HB2	2.50	0.46
7:b9:490:SER:OG	7:b9:538:ASP:OD2	2.23	0.46
7:bN:115:LYS:HA	7:bN:129:GLY:O	2.16	0.46
7:bY:41:ILE:HD11	7:bY:361:PHE:HB3	1.98	0.46
7:bY:99:ILE:HA	7:bY:187:ILE:HD13	1.98	0.46
7:cA:44:VAL:HG11	7:cA:50:LEU:HB2	1.96	0.46
7:cB:110:TYR:CE1	7:cB:177:GLY:HA3	2.51	0.46
7:cB:126:GLU:OE2	7:cB:128:GLU:N	2.45	0.46
7:cB:256:PRO:HG2	7:cB:339:THR:H	1.81	0.46
7:cB:538:ASP:OD1	7:cB:538:ASP:N	2.48	0.46
7:cC:400:ARG:HD3	7:cC:403:CYS:SG	2.55	0.46
7:cD:104:SER:HB2	7:cD:181:VAL:HB	1.97	0.46
7:cD:383:LEU:HD11	7:cD:436:TYR:CE1	2.51	0.46
7:cD:563:ASN:OD1	7:cD:591:TYR:OH	2.18	0.46
7:cF:478:CYS:O	7:cF:555:ARG:NH1	2.48	0.46
7:cG:253:PRO:HG2	7:cG:255:TYR:CE1	2.50	0.46
7:cI:366:GLU:H	7:cI:366:GLU:HG3	1.53	0.46
7:cJ:36:GLY:O	7:cJ:82:ARG:NH1	2.49	0.46
7:cJ:43:GLN:OE1	7:cJ:79:ARG:NH1	2.48	0.46
7:cJ:54:PHE:HE2	7:cJ:82:ARG:HB2	1.81	0.46
7:cJ:651:PHE:O	7:cJ:654:LEU:HB2	2.16	0.46
7:cL:574:GLU:HG2	7:cL:575:LEU:N	2.30	0.46
7:cN:383:LEU:HD11	7:cN:436:TYR:CD2	2.51	0.46
7:cN:614:THR:C	7:cN:616:SER:H	2.24	0.46
7:dS:148:ALA:O	7:dS:151:ILE:HG13	2.15	0.46
7:dS:271:TYR:CE2	7:dS:304:ILE:HG13	2.50	0.46
7:dS:383:LEU:HD11	7:dS:436:TYR:CE1	2.51	0.46
7:dT:430:ARG:O	7:dT:430:ARG:HD3	2.16	0.46
8:f9:419:ASN:HB2	8:f9:481:THR:HG23	1.97	0.46
8:fA:251:ALA:HB2	8:fB:337:GLN:HG2	1.98	0.46
8:fR:220:THR:HG22	8:fR:222:THR:H	1.81	0.46
8:fr:449:THR:HA	8:fr:453:GLU:HG3	1.97	0.46
8:fs:519:SER:OG	8:fs:534:VAL:O	2.29	0.46
9:gE:10:TRP:HB3	9:gH:8:LEU:HD21	1.97	0.46
9:gE:466:ASN:ND2	9:gG:462:GLU:OE1	2.37	0.46
9:gG:179:MET:HE3	9:gG:339:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gG:365:ASP:OD1	9:gG:365:ASP:N	2.48	0.46
11:hK:76:ASP:OD1	11:hK:80:ASP:N	2.47	0.46
11:ho:94:GLY:HA3	11:ho:100:THR:OG1	2.16	0.46
11:hu:133:TRP:CZ3	11:hu:135:THR:HG22	2.51	0.46
14:IV:141:ARG:HD3	14:IV:141:ARG:HA	1.68	0.46
16:o1:346:ILE:HD13	16:o1:348:MET:HE3	1.97	0.46
16:o6:202:ASN:ND2	16:o6:351:ILE:O	2.49	0.46
16:o6:307:LYS:HD3	16:o6:307:LYS:H	1.81	0.46
17:q5:224:SER:OG	17:q5:225:ALA:N	2.48	0.46
17:q9:15:ASP:OD1	17:q9:18:ARG:NH2	2.48	0.46
1:S0:2:SER:HB3	4:Xk:209:ASN:HB3	1.98	0.46
1:S1:21:THR:HG21	1:S3:14:ARG:HH21	1.79	0.46
1:S3:77:THR:HG23	1:S3:79:ALA:H	1.81	0.46
1:S8:240:ASN:HB3	1:S8:243:VAL:HG22	1.98	0.46
1:SA:85:LEU:HD22	1:Sw:84:ARG:NH1	2.30	0.46
1:SA:307:THR:HG23	1:Sw:314:ASN:HB2	1.98	0.46
1:SO:199:VAL:HA	1:SQ:212:PRO:HB3	1.98	0.46
1:SP:212:PRO:HG3	1:SQ:199:VAL:HG12	1.98	0.46
1:Sv:77:THR:OG1	1:Sv:78:PRO:HD2	2.16	0.46
1:Sv:147:LEU:HB3	1:Sv:168:LEU:HD11	1.98	0.46
1:Sv:493:GLU:CD	1:Sv:493:GLU:H	2.24	0.46
2:T4:84:ARG:HE	2:T8:64:THR:HA	1.81	0.46
2:T9:14:GLU:O	2:T9:16:GLY:N	2.49	0.46
2:T9:206:CYS:O	2:T9:214:ILE:HA	2.16	0.46
2:TF:100:ARG:HB2	2:TF:127:ILE:HG21	1.98	0.46
2:TG:14:GLU:O	2:TG:16:GLY:N	2.49	0.46
2:Ti:79:VAL:HG11	2:Ti:85:HIS:HE2	1.81	0.46
3:UM:28:ASP:OD2	3:UN:64:ILE:HG13	2.16	0.46
3:UN:90:PHE:HA	3:UN:177:THR:O	2.15	0.46
3:Us:87:TYR:HE1	3:Us:157:GLU:HB2	1.81	0.46
3:VM:85:THR:HB	3:VM:184:SER:HB3	1.97	0.46
3:VM:195:LEU:HA	3:VM:215:PHE:HD1	1.80	0.46
3:Vr:30:MET:O	3:Vr:32:ARG:HG2	2.16	0.46
4:WJ:274:THR:HA	4:WJ:282:VAL:HG11	1.97	0.46
4:Wj:330:HIS:O	4:Wj:352:SER:OG	2.30	0.46
4:Wk:422:LEU:HB2	4:Wk:425:PHE:CE1	2.51	0.46
4:Wk:535:THR:HG21	4:Wo:532:LEU:HD12	1.98	0.46
4:Wl:180:VAL:HG13	4:Wl:181:PHE:N	2.30	0.46
4:Wo:310:GLU:HB2	4:Wo:384:THR:HB	1.97	0.46
4:XJ:293:PHE:HB2	4:XJ:296:PHE:HB2	1.97	0.46
4:Xj:309:LEU:HD12	4:Xj:365:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xk:331:CYS:HA	4:Xk:349:TRP:HZ2	1.81	0.46
4:Xk:407:TYR:CE1	4:Xo:407:TYR:HB2	2.50	0.46
4:Xk:454:TYR:O	4:Xk:600:ARG:NH1	2.44	0.46
5:YC:339:ASP:O	5:YC:342:SER:HB3	2.14	0.46
5:YC:563:ASP:OD1	5:YC:563:ASP:N	2.47	0.46
5:YX:46:GLY:HA3	5:YX:49:LEU:HD12	1.97	0.46
5:YX:435:SER:HB3	5:YX:512:PRO:HA	1.98	0.46
6:ZD:310:ILE:HB	6:ZE:16:PHE:HB2	1.98	0.46
6:ZZ:78:THR:OG1	6:ZZ:297:TYR:O	2.32	0.46
6:aD:87:ASP:HB3	6:aD:209:VAL:HG13	1.97	0.46
6:aE:270:ARG:CZ	6:aE:317:PRO:HB3	2.46	0.46
6:aZ:304:ARG:HG2	6:aZ:305:HIS:CD2	2.51	0.46
6:aZ:313:GLU:HG3	6:ab:10:ALA:HB2	1.98	0.46
6:ab:19:GLU:HG3	6:ab:23:ASN:HD21	1.80	0.46
7:b0:11:LYS:HE3	7:b0:13:THR:HG21	1.98	0.46
7:b0:104:SER:HB2	7:b0:181:VAL:HB	1.96	0.46
7:b0:104:SER:OG	7:b0:183:THR:OG1	2.26	0.46
7:b3:91:ASN:ND2	7:b3:195:LEU:HG	2.31	0.46
7:b3:239:VAL:HG22	7:b3:280:ALA:HB3	1.97	0.46
7:b6:152:ALA:O	7:b6:156:GLU:HG2	2.16	0.46
7:b6:195:LEU:HD23	7:b6:195:LEU:H	1.81	0.46
7:b7:642:PHE:CE2	7:cB:564:ILE:HD11	2.51	0.46
7:bN:642:PHE:CE1	7:dS:564:ILE:HD11	2.49	0.46
7:bP:26:THR:HA	7:bP:77:ASP:O	2.16	0.46
7:bP:115:LYS:HA	7:bP:129:GLY:O	2.15	0.46
7:cC:413:THR:OG1	7:cC:425:ASN:HB3	2.16	0.46
7:cD:549:ASP:OD2	7:cI:271:TYR:OH	2.28	0.46
7:cD:601:ILE:HG22	7:cD:630:GLN:H	1.80	0.46
7:cG:49:ASP:OD1	7:cG:49:ASP:N	2.49	0.46
7:cH:239:VAL:HG22	7:cH:280:ALA:HB3	1.98	0.46
7:cI:188:ILE:HG22	7:cI:190:ASP:H	1.80	0.46
7:cI:485:SER:OG	7:cI:486:GLN:N	2.48	0.46
7:cJ:110:TYR:H	7:cJ:138:GLY:CA	2.27	0.46
7:cL:441:PHE:CZ	7:cL:443:ILE:HD11	2.51	0.46
7:cM:552:ASN:OD1	7:cM:553:VAL:N	2.49	0.46
7:cN:110:TYR:H	7:cN:138:GLY:CA	2.29	0.46
7:cO:110:TYR:CE1	7:cO:171:ILE:HD12	2.50	0.46
7:cO:159:GLU:O	7:cO:162:THR:N	2.49	0.46
7:cO:460:LYS:H	7:cO:460:LYS:HG3	1.38	0.46
7:cO:478:CYS:O	7:cO:555:ARG:NH1	2.48	0.46
7:cP:646:ALA:H	7:cP:650:ASP:CG	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dZ:640:LEU:HD11	15:m2:40:ILE:HG21	1.97	0.46
8:eB:219:SER:HB2	8:eB:254:ALA:HB1	1.97	0.46
8:eB:227:ARG:HD3	8:eB:235:GLU:OE1	2.16	0.46
8:f9:156:ASP:OD1	8:f9:157:LYS:N	2.49	0.46
8:f9:332:LYS:HA	8:f9:335:THR:HG22	1.97	0.46
8:fB:539:ARG:HG2	8:fB:541:VAL:HG22	1.97	0.46
8:fU:209:TRP:HB2	8:fU:223:ILE:HD12	1.97	0.46
8:fU:460:ALA:HB3	8:fU:463:LYS:HB2	1.97	0.46
8:fr:242:GLU:OE1	8:fr:243:ILE:N	2.49	0.46
8:fs:546:ASP:HB3	8:fs:550:ILE:O	2.16	0.46
9:gE:549:ASP:OD1	9:gH:556:SER:OG	2.34	0.46
11:he:82:ARG:NH1	11:he:138:GLY:HA2	2.27	0.46
11:ho:137:VAL:HB	11:ho:155:VAL:HG13	1.97	0.46
14:k3:59:LEU:HD22	14:k3:86:TRP:HH2	1.80	0.46
14:k3:119:LYS:HE3	14:k3:119:LYS:HB2	1.84	0.46
16:o2:117:GLY:HA3	16:pB:190:TYR:CD2	2.51	0.46
16:o6:227:GLN:NE2	16:o6:265:GLU:OE2	2.37	0.46
16:o6:261:PRO:HB3	16:o6:267:ALA:HB2	1.98	0.46
16:pB:247:LYS:HG3	16:pB:248:GLY:H	1.81	0.46
17:q4:126:TYR:HA	17:q9:230:TYR:CD2	2.51	0.46
17:q5:192:PRO:O	17:q5:196:GLU:HB3	2.16	0.46
17:q7:192:PRO:O	17:q7:196:GLU:HB3	2.16	0.46
17:q8:15:ASP:OD1	17:q8:16:PHE:N	2.39	0.46
17:q8:164:MET:HE2	17:q8:237:THR:HG21	1.98	0.46
17:q9:199:ILE:HG12	17:q9:218:MET:SD	2.56	0.46
1:S1:359:TRP:NE1	1:S2:340:THR:O	2.41	0.46
1:S4:161:THR:O	1:S4:165:THR:HG22	2.16	0.46
1:S4:279:SER:HB2	1:S8:283:TRP:CD1	2.51	0.46
1:S8:73:THR:HG23	1:S8:74:LYS:HD2	1.96	0.46
1:SO:165:THR:HG21	1:SP:160:MET:SD	2.56	0.46
1:SO:511:GLU:HB3	1:SO:513:ARG:HH11	1.81	0.46
1:SP:62:THR:HG23	1:SP:64:GLN:H	1.81	0.46
1:Sv:110:VAL:HG12	1:Sv:111:ASN:H	1.80	0.46
1:Sw:466:SER:HB3	1:Sw:468:PHE:CE2	2.51	0.46
2:T2:50:VAL:O	2:T2:52:ASN:N	2.46	0.46
2:T9:17:ASN:OD1	2:T9:18:ALA:N	2.49	0.46
2:T9:152:SER:O	2:T9:158:SER:HA	2.16	0.46
2:Td:7:LYS:HD3	2:Th:39:TYR:CG	2.51	0.46
2:Te:194:ARG:HG3	2:Te:195:THR:HG23	1.98	0.46
3:UL:7:LYS:HG3	4:WJ:316:ILE:HG21	1.98	0.46
3:UL:10:VAL:HG11	3:UM:10:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UL:10:VAL:HG13	3:UM:13:ARG:HG3	1.97	0.46
3:Uq:13:ARG:HG2	3:Uq:14:LEU:H	1.80	0.46
3:VM:87:TYR:CE1	3:VM:157:GLU:HB2	2.51	0.46
3:Vu:29:VAL:HG22	3:Vu:62:PHE:HZ	1.79	0.46
4:WI:416:ILE:HG23	4:WK:472:TYR:HA	1.97	0.46
4:WJ:213:GLY:HA3	4:WJ:231:ARG:C	2.41	0.46
4:WK:311:VAL:HG13	4:WK:320:LEU:HB2	1.98	0.46
4:Wk:26:ILE:HG13	4:Wm:30:PHE:CE2	2.51	0.46
4:Wk:102:TRP:HZ3	4:Wk:131:SER:HB2	1.80	0.46
4:Wk:148:ASN:ND2	4:Wk:156:SER:HA	2.31	0.46
4:Wk:360:THR:HB	4:Wk:365:ILE:O	2.15	0.46
4:XI:18:TYR:CE1	4:XI:20:ARG:HB3	2.50	0.46
4:XI:36:GLU:HB3	4:XJ:45:SER:HB3	1.97	0.46
4:XI:166:GLU:N	4:XI:166:GLU:OE1	2.49	0.46
4:Xj:195:HIS:C	4:Xj:197:GLY:H	2.24	0.46
4:Xj:402:GLU:HG3	4:Xj:406:LEU:HD12	1.98	0.46
4:Xm:7:ILE:HD11	4:Xo:24:ILE:HG13	1.98	0.46
4:Xn:289:LYS:HD2	4:Xn:372:ASP:HB3	1.98	0.46
4:Xo:117:ILE:HA	4:Xo:143:TRP:HB2	1.98	0.46
5:YC:185:LYS:HE2	5:YC:206:GLN:HE22	1.81	0.46
5:YC:1012:LEU:HB2	5:YC:1027:GLN:CD	2.40	0.46
5:YX:821:ILE:N	5:YX:824:GLN:OE1	2.48	0.46
5:YY:933:ILE:HG22	5:YY:954:GLU:O	2.16	0.46
5:Yc:42:LYS:HG2	5:Yc:48:ASN:H	1.81	0.46
5:Yc:193:MET:HE2	5:Yc:202:PHE:HE2	1.80	0.46
5:Yx:326:VAL:HG21	5:Yx:406:LEU:HD21	1.98	0.46
5:Yx:433:ASN:OD1	5:Yx:434:MET:N	2.49	0.46
5:Yx:509:TYR:HB2	6:ac:175:ASP:OD2	2.15	0.46
5:Yy:198:ILE:HA	5:Yy:213:ASN:HA	1.98	0.46
5:Yy:305:TYR:CD2	5:Yy:306:ARG:HG3	2.51	0.46
5:Yy:908:HIS:HE1	5:Yy:1029:LYS:HD3	1.81	0.46
5:Yy:932:ARG:HG3	5:Yy:1005:ARG:HH22	1.80	0.46
6:ZE:114:CYS:HA	6:ZE:120:ASN:ND2	2.31	0.46
6:ZZ:135:ASP:OD1	6:ZZ:136:VAL:N	2.48	0.46
6:aE:104:TYR:HB2	6:aE:165:ARG:HB2	1.97	0.46
6:aZ:46:PRO:HG3	6:aZ:267:LYS:HD2	1.97	0.46
6:aa:9:ARG:HD2	6:ac:60:TYR:CE2	2.51	0.46
7:b5:440:ASN:HD22	7:b5:442:ASN:HB2	1.81	0.46
7:b8:455:LYS:HB2	7:b8:470:LEU:HD13	1.98	0.46
7:b9:484:VAL:HG13	7:b9:485:SER:H	1.81	0.46
7:bO:519:GLN:NE2	7:bP:4:LEU:HD13	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bY:332:GLU:H	7:bY:332:GLU:CD	2.24	0.46
7:cA:193:ILE:HG21	7:cA:223:VAL:HG11	1.98	0.46
7:cA:366:GLU:OE1	7:cA:367:SER:N	2.48	0.46
7:cB:365:ARG:HA	7:cB:400:ARG:HH21	1.80	0.46
7:cB:400:ARG:HD3	7:cB:403:CYS:SG	2.55	0.46
7:cB:560:LEU:HD22	7:cB:629:ILE:HD13	1.98	0.46
7:cC:332:GLU:OE1	7:cC:332:GLU:N	2.39	0.46
7:cE:108:SER:O	7:cE:177:GLY:HA2	2.16	0.46
7:cF:107:GLY:HA3	7:cF:110:TYR:CE2	2.51	0.46
7:cH:549:ASP:OD2	7:cL:271:TYR:OH	2.15	0.46
7:cK:159:GLU:HB3	7:cK:163:LEU:HA	1.97	0.46
7:cL:40:GLN:H	7:cL:81:VAL:HG23	1.81	0.46
7:dU:130:LYS:HE3	7:dU:130:LYS:HB2	1.70	0.46
7:dZ:378:CYS:HB2	7:dZ:410:PRO:HA	1.98	0.46
7:dZ:430:ARG:O	7:dZ:430:ARG:HD3	2.16	0.46
8:eU:516:SER:HA	8:eU:537:ASP:HA	1.98	0.46
8:eW:40:GLN:NE2	8:eW:43:PHE:O	2.49	0.46
8:eW:229:THR:OG1	8:eW:231:ASP:OD1	2.34	0.46
8:f9:465:LEU:HD21	8:f9:480:ALA:HB2	1.98	0.46
8:fA:220:THR:O	8:fA:223:ILE:HD11	2.15	0.46
8:fB:144:ASN:OD1	8:fB:144:ASN:N	2.35	0.46
8:fR:191:ASN:HB3	8:fR:275:THR:O	2.16	0.46
8:fU:148:ARG:HH21	8:fU:168:ALA:HB2	1.81	0.46
8:fU:206:TRP:CD1	8:fU:222:THR:HB	2.51	0.46
8:fW:345:TYR:HB2	8:fW:362:THR:HG21	1.97	0.46
8:fW:545:ARG:HG3	8:fW:549:GLY:HA2	1.97	0.46
11:hJ:1:MET:HE1	11:hy:54:MET:HE2	1.97	0.46
11:hJ:48:LYS:HB2	11:hK:133:TRP:CZ2	2.51	0.46
11:hX:58:ILE:HG13	17:q4:12:ILE:HG12	1.96	0.46
11:hX:70:THR:HG22	11:hX:156:THR:HG22	1.98	0.46
11:hh:41:LEU:HG	11:hh:127:ILE:HD13	1.97	0.46
11:hj:75:ASN:HB3	11:hj:151:GLN:HB3	1.98	0.46
11:hk:61:ALA:HA	11:hl:133:TRP:CH2	2.51	0.46
11:hp:41:LEU:HB2	11:hq:140:LEU:HB3	1.98	0.46
11:hq:80:ASP:O	11:hq:84:LYS:HG3	2.15	0.46
12:iF:241:ASN:OD1	12:iF:244:LYS:HB2	2.16	0.46
14:k7:94:TYR:O	14:k7:97:SER:OG	2.24	0.46
16:o0:39:PRO:HD2	16:o0:42:ARG:HB2	1.97	0.46
16:o1:49:THR:HA	17:q7:94:GLN:O	2.16	0.46
1:S0:379:ILE:HD12	1:S0:382:ARG:HD3	1.98	0.45
1:S0:496:ARG:NH1	1:S0:501:THR:OG1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:406:GLY:O	1:S1:410:THR:HG23	2.15	0.45
1:S5:170:ILE:HD13	1:S7:172:LEU:HD22	1.97	0.45
1:S5:473:LYS:NZ	4:Wo:362:GLU:HA	2.27	0.45
1:S7:84:ARG:NH1	1:S7:88:PRO:HB3	2.31	0.45
1:SA:269:ALA:O	1:Sy:291:ARG:NH2	2.26	0.45
1:SO:61:PRO:HD3	1:SO:74:LYS:HB3	1.96	0.45
1:Sv:160:MET:SD	1:Sv:165:THR:HB	2.56	0.45
2:T2:36:ASN:O	2:T2:40:ASN:ND2	2.32	0.45
2:T2:202:LEU:HD11	2:T2:254:PHE:HZ	1.80	0.45
2:T4:131:LYS:HD3	2:T4:161:ASN:ND2	2.31	0.45
2:T4:282:GLN:CD	2:T8:205:THR:HG1	2.17	0.45
2:T5:2:PHE:CZ	2:T5:36:ASN:HB3	2.51	0.45
2:T8:1:MET:HG2	2:T8:70:HIS:CG	2.51	0.45
2:T8:50:VAL:HG12	2:T8:51:ALA:H	1.81	0.45
2:Td:193:HIS:HB3	2:Td:196:GLU:HG3	1.97	0.45
3:Up:80:GLU:O	3:Up:187:LYS:NZ	2.47	0.45
3:Uq:164:GLN:NE2	3:Uu:58:ASP:OD1	2.43	0.45
3:Ur:85:THR:HG22	3:Ur:183:ILE:HD12	1.97	0.45
3:Ur:90:PHE:CD1	3:Ur:178:ILE:HG12	2.51	0.45
3:Us:40:ILE:HG21	3:Uu:160:TYR:CZ	2.52	0.45
3:VN:85:THR:HG22	3:VN:183:ILE:HD12	1.97	0.45
3:Vp:82:VAL:HB	3:Vp:187:LYS:HB3	1.98	0.45
3:Vs:62:PHE:CD2	3:Vu:64:ILE:HD11	2.51	0.45
4:WK:263:ILE:HD12	4:WK:263:ILE:HA	1.84	0.45
4:Wk:258:TYR:CE1	4:Wk:384:THR:HG23	2.51	0.45
4:Wl:76:ARG:NH2	4:Wl:78:THR:OG1	2.49	0.45
4:Wl:391:GLY:HA3	4:Wn:390:LEU:HD22	1.97	0.45
4:Wo:79:ILE:HG12	4:Wo:109:LEU:HA	1.97	0.45
4:Wo:261:ARG:HH21	4:Wo:299:ILE:HD13	1.80	0.45
4:Xl:556:GLN:HG2	5:Yc:185:LYS:HD3	1.97	0.45
4:XJ:64:TRP:O	4:XJ:93:ILE:HG22	2.15	0.45
4:Xk:191:ILE:O	4:Xk:192:ARG:NH1	2.36	0.45
4:Xk:591:PRO:HA	4:Xm:520:GLY:O	2.17	0.45
4:Xl:263:ILE:HG22	4:Xl:381:ILE:HB	1.98	0.45
5:YC:69:PHE:CE1	5:YC:71:ASP:HB2	2.51	0.45
5:YY:714:TYR:HE2	5:YY:723:VAL:HG21	1.81	0.45
5:Yc:176:ILE:HD13	5:Yc:176:ILE:H	1.80	0.45
5:Yc:380:ILE:HD13	5:Yc:429:PRO:HA	1.99	0.45
5:Yx:59:LEU:HD21	5:Yx:69:PHE:CE1	2.52	0.45
5:Yx:560:TYR:HB2	5:Yx:567:THR:HG23	1.97	0.45
5:Yx:733:ASP:OD1	5:Yx:733:ASP:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:19:ASN:HD21	5:Yy:74:PRO:HG3	1.81	0.45
5:Yy:507:LYS:NZ	6:aE:181:GLU:OE2	2.48	0.45
6:aE:115:ASN:HA	6:aE:121:ALA:HA	1.99	0.45
7:b0:11:LYS:O	7:b9:641:ASN:HA	2.16	0.45
7:b3:159:GLU:HB3	7:b3:163:LEU:HA	1.97	0.45
7:b3:366:GLU:H	7:b3:366:GLU:HG3	1.38	0.45
7:b3:446:THR:O	7:b3:554:ARG:NE	2.49	0.45
7:bP:18:THR:HG23	7:bP:48:VAL:HG21	1.98	0.45
7:bR:383:LEU:HD11	7:bR:436:TYR:HD1	1.80	0.45
7:bR:514:ARG:HH22	7:dW:366:GLU:CD	2.24	0.45
7:bR:560:LEU:O	7:bR:564:ILE:HG12	2.15	0.45
7:bY:57:PRO:HB3	7:bY:65:PHE:HB3	1.98	0.45
7:bY:505:LEU:HD22	7:bY:533:TYR:HD2	1.80	0.45
7:cA:229:GLU:OE2	7:cA:345:SER:OG	2.33	0.45
7:cC:44:VAL:HG11	7:cC:50:LEU:HB2	1.97	0.45
7:cG:384:GLU:HG2	7:cG:439:ASN:OD1	2.16	0.45
7:cI:373:PHE:HB2	7:cI:405:VAL:HG22	1.98	0.45
7:cK:131:ILE:HD11	7:cK:171:ILE:HD13	1.98	0.45
7:cL:159:GLU:O	7:cL:162:THR:N	2.49	0.45
7:cN:46:ASN:OD1	7:cN:47:GLU:N	2.49	0.45
7:cO:72:LEU:HD13	7:cO:72:LEU:HA	1.79	0.45
7:dS:559:MET:HB2	7:dS:559:MET:HE2	1.80	0.45
7:dT:455:LYS:NZ	7:dT:473:ASP:OD2	2.49	0.45
7:dU:193:ILE:HG21	7:dU:223:VAL:HG11	1.98	0.45
7:dU:589:ALA:HB1	17:q3:98:GLN:HG3	1.97	0.45
7:dW:15:VAL:HG21	15:m6:105:ILE:HG23	1.97	0.45
8:eB:509:SER:HB2	8:eB:626:ASP:H	1.81	0.45
8:f9:523:VAL:O	8:f9:531:GLU:HB3	2.16	0.45
8:fU:66:TYR:OH	14:k3:56:PRO:HG2	2.16	0.45
8:fU:492:TYR:HA	8:fU:606:ILE:HD12	1.98	0.45
8:fU:547:SER:O	8:fU:548:LYS:NZ	2.38	0.45
8:fW:40:GLN:HG2	8:fW:42:GLU:H	1.81	0.45
8:fW:112:LEU:HB3	8:fW:300:ILE:HG22	1.98	0.45
8:fr:113:THR:O	8:fr:298:ILE:HG12	2.16	0.45
8:fr:206:TRP:CE2	8:fr:222:THR:HB	2.51	0.45
8:fr:584:ASP:HB3	8:fr:586:ARG:HH11	1.81	0.45
8:fs:87:SER:HB2	8:fs:230:ILE:HG23	1.98	0.45
9:gE:410:GLU:HG2	9:gH:397:SER:HB2	1.97	0.45
9:gH:36:PRO:HG3	9:gH:45:MET:HB2	1.98	0.45
11:h1:24:GLU:HB3	11:h1:112:ILE:HG23	1.96	0.45
11:h1:120:ALA:HB2	11:hs:99:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hI:45:ILE:HA	11:hJ:135:THR:O	2.15	0.45
11:hh:49:ILE:O	11:hh:49:ILE:HG12	2.15	0.45
11:ht:73:VAL:HG12	11:ht:74:MET:O	2.16	0.45
12:iD:174:ARG:HE	12:iD:174:ARG:HB2	1.50	0.45
12:iD:233:ASP:OD1	16:o2:194:ARG:NH2	2.42	0.45
14:k3:49:TYR:H	16:pB:25:THR:HG22	1.81	0.45
17:q4:166:SER:OG	17:q7:14:ALA:O	2.23	0.45
1:S0:101:SER:O	1:S0:120:LYS:NZ	2.42	0.45
1:S1:147:LEU:HB3	1:S1:168:LEU:HD11	1.97	0.45
1:S2:101:SER:HB2	1:S2:105:GLU:HB2	1.98	0.45
1:S2:162:PRO:O	1:S2:166:GLN:N	2.40	0.45
1:S4:163:LEU:HB2	1:S6:153:GLY:O	2.15	0.45
1:S4:207:GLY:HA2	1:S8:193:LEU:HD11	1.97	0.45
1:S7:286:ASP:OD1	1:S7:286:ASP:N	2.48	0.45
1:SQ:62:THR:N	1:SQ:65:GLU:OE1	2.49	0.45
1:Sx:12:GLU:HB3	1:Sx:15:TYR:HB3	1.98	0.45
1:Sy:89:ASN:OD1	1:Sy:90:ALA:N	2.48	0.45
2:T3:128:ASP:HB2	2:T3:158:SER:HB3	1.98	0.45
2:TH:232:SER:HB3	2:TH:254:PHE:HD2	1.82	0.45
2:Tg:194:ARG:HE	2:Tg:259:ASN:HA	1.81	0.45
2:Th:44:ASP:O	2:Th:59:GLN:NE2	2.43	0.45
2:Ti:87:ILE:HG13	2:Ti:122:LEU:HD11	1.97	0.45
3:Us:198:ALA:HA	3:Us:212:PHE:O	2.16	0.45
3:Ut:47:PHE:CZ	3:Ut:49:GLU:HB2	2.51	0.45
3:Uu:199:GLN:HG2	3:Uu:201:VAL:HG23	1.98	0.45
3:VL:86:ASP:CG	3:VL:180:GLN:HE21	2.24	0.45
4:WI:49:TRP:HZ3	4:WI:96:ARG:HD2	1.81	0.45
4:WJ:264:ARG:HA	4:WJ:379:ASP:O	2.15	0.45
4:WJ:454:TYR:O	4:WJ:600:ARG:NH1	2.47	0.45
4:WK:180:VAL:HG13	4:WK:181:PHE:N	2.32	0.45
4:Wj:94:ARG:HA	4:Wj:94:ARG:HD3	1.77	0.45
4:XI:481:PHE:CZ	4:XK:593:ILE:HD13	2.51	0.45
4:XK:265:LEU:HD22	4:XK:281:TYR:HD2	1.82	0.45
4:Xj:359:GLU:HB3	4:Xj:370:HIS:HB3	1.99	0.45
4:Xj:399:ILE:HD12	4:Xn:399:ILE:HG12	1.98	0.45
4:Xk:19:LEU:HG	5:Yy:999:THR:HB	1.98	0.45
4:Xl:49:TRP:CZ3	4:Xl:96:ARG:HD2	2.52	0.45
4:Xl:285:LEU:HD11	4:Xl:375:PHE:H	1.81	0.45
4:Xn:312:ARG:HB3	4:Xn:316:ILE:O	2.15	0.45
5:YC:229:VAL:O	5:YC:249:GLY:HA2	2.16	0.45
5:YC:305:TYR:CD2	5:YC:306:ARG:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YC:900:ILE:HD12	6:ZE:311:TYR:CE1	2.51	0.45
5:YC:929:TYR:CD2	5:YC:961:VAL:HB	2.51	0.45
5:YC:946:SER:C	5:YC:948:THR:H	2.23	0.45
5:YX:81:ARG:HG2	5:YX:94:TRP:CE3	2.47	0.45
5:YX:684:ASN:OD1	5:YX:688:ASN:ND2	2.49	0.45
5:YX:786:ILE:HG12	5:YX:795:VAL:HG13	1.97	0.45
5:YY:69:PHE:CE1	5:YY:71:ASP:HB2	2.51	0.45
5:Yy:298:ALA:HB3	5:Yy:300:LEU:HD23	1.98	0.45
5:Yy:307:ILE:HD13	5:Yy:323:ARG:HH12	1.81	0.45
5:Yy:454:ASN:OD1	5:Yy:454:ASN:N	2.41	0.45
7:b3:11:LYS:HG2	7:b3:13:THR:HG23	1.98	0.45
7:b4:137:ASP:OD1	7:b4:137:ASP:N	2.48	0.45
7:b8:137:ASP:OD1	7:b8:137:ASP:N	2.34	0.45
7:bN:46:ASN:OD1	7:bN:47:GLU:N	2.48	0.45
7:bO:612:ASN:HB3	7:bO:624:VAL:HG23	1.98	0.45
7:bR:119:LYS:HZ2	7:bR:122:SER:HA	1.80	0.45
7:cA:638:ILE:HG23	7:cJ:623:PHE:HD2	1.81	0.45
7:cB:109:ASN:H	7:cB:137:ASP:HB2	1.80	0.45
7:cD:526:THR:OG1	7:cD:527:GLY:N	2.49	0.45
7:cF:455:LYS:NZ	7:cF:457:GLN:OE1	2.44	0.45
7:cG:654:LEU:HD22	7:cH:605:ARG:NH1	2.31	0.45
7:cH:110:TYR:CD1	7:cH:177:GLY:HA3	2.51	0.45
7:cH:572:LEU:O	7:cH:573:PHE:C	2.58	0.45
7:cI:32:LYS:HD3	7:cI:64:TYR:CE1	2.51	0.45
7:cI:205:MET:HE2	7:cI:205:MET:HB3	1.83	0.45
7:cJ:154:ALA:HA	7:cJ:157:VAL:HG22	1.99	0.45
7:cL:411:ARG:O	7:cL:415:VAL:HB	2.15	0.45
7:cL:614:THR:C	7:cL:616:SER:H	2.24	0.45
7:cM:33:PHE:HA	7:cM:61:THR:HG23	1.98	0.45
7:cO:572:LEU:O	7:cO:573:PHE:C	2.60	0.45
7:dS:125:ILE:HD12	7:dS:153:LYS:HG2	1.98	0.45
7:dU:380:GLY:HA3	16:o0:14:LYS:NZ	2.32	0.45
8:eB:461:LYS:HD2	8:eB:480:ALA:HB3	1.98	0.45
8:eU:487:GLU:OE1	8:eU:647:ARG:NH1	2.49	0.45
8:f9:327:GLU:O	8:f9:331:ILE:HG12	2.16	0.45
8:f9:436:LEU:O	8:f9:440:ILE:HG23	2.15	0.45
8:fR:397:LYS:HD3	8:fR:397:LYS:HA	1.84	0.45
8:fS:392:ILE:HG12	8:fS:408:ILE:HD11	1.97	0.45
8:fW:184:PRO:HB2	8:fW:186:ILE:HD11	1.99	0.45
8:fr:174:ARG:NH2	8:fr:176:GLU:OE2	2.46	0.45
11:hK:45:ILE:HG23	11:hK:65:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hk:67:ASP:OD1	11:hk:67:ASP:N	2.45	0.45
11:hm:116:TYR:CE1	11:hm:123:VAL:HG22	2.51	0.45
11:hv:63:ASP:OD2	11:hx:147:ASN:ND2	2.48	0.45
12:iC:318:LEU:HD23	12:iC:355:LEU:HD21	1.97	0.45
12:iF:289:ARG:O	12:iF:289:ARG:NE	2.49	0.45
15:m1:22:ASP:OD1	15:m1:22:ASP:N	2.48	0.45
16:o0:34:TYR:HB3	16:o0:228:TYR:CZ	2.51	0.45
16:o0:215:SER:HA	17:q5:191:LEU:HD13	1.98	0.45
17:q3:216:PHE:CE2	17:q3:248:MET:HG3	2.51	0.45
17:q4:200:GLN:CB	17:q4:215:MET:HE2	2.45	0.45
17:q8:166:SER:OG	17:q9:15:ASP:O	2.31	0.45
17:q9:183:ASP:HB2	17:q9:186:THR:O	2.16	0.45
1:S0:190:VAL:HG12	1:S7:190:VAL:HG12	1.99	0.45
1:S3:289:GLN:OE1	1:S3:294:GLN:NE2	2.49	0.45
1:S3:511:GLU:OE1	1:S3:513:ARG:NH1	2.49	0.45
1:S4:144:ILE:HG12	1:S6:134:SER:OG	2.15	0.45
1:S4:339:ARG:NH1	1:S8:357:ASP:OD1	2.49	0.45
1:S6:29:ILE:O	1:S6:30:THR:OG1	2.27	0.45
1:S8:418:ASP:OD1	1:S8:422:LYS:N	2.48	0.45
1:SO:42:ALA:HB3	1:SQ:43:GLY:C	2.40	0.45
1:SO:405:ARG:HG2	1:SO:410:THR:HG23	1.99	0.45
1:SP:142:ILE:HG21	1:SP:157:THR:O	2.15	0.45
1:SQ:220:SER:OG	1:SQ:226:GLY:O	2.34	0.45
1:SQ:491:ASP:N	1:SQ:491:ASP:OD1	2.48	0.45
1:Sv:298:GLY:HA3	1:Sz:292:GLY:HA3	1.98	0.45
1:Sv:400:VAL:HG11	1:Sz:348:MET:SD	2.56	0.45
1:Sx:446:LYS:N	1:Sz:503:ASN:OD1	2.49	0.45
2:T1:102:GLU:HA	2:T1:153:SER:HB3	1.99	0.45
2:T4:17:ASN:OD1	2:T4:18:ALA:N	2.50	0.45
2:T4:85:HIS:HB2	2:T4:109:PHE:CD1	2.51	0.45
2:T5:85:HIS:HB2	2:T5:109:PHE:HD1	1.81	0.45
2:T6:50:VAL:O	2:T6:52:ASN:N	2.45	0.45
2:T8:201:LYS:NZ	2:T8:220:ASN:OD1	2.40	0.45
2:TH:79:VAL:N	2:TH:97:ILE:O	2.49	0.45
2:Te:43:GLY:O	2:Te:68:GLN:NE2	2.29	0.45
2:Te:47:LYS:HD2	2:Te:59:GLN:HG2	1.98	0.45
3:UL:174:TYR:H	4:WK:340:VAL:HG21	1.79	0.45
3:Ut:87:TYR:CE1	3:Ut:157:GLU:HB2	2.51	0.45
3:Vp:13:ARG:HG2	3:Vp:14:LEU:H	1.81	0.45
3:Vq:4:LEU:HD13	4:Xm:356:TYR:HE2	1.81	0.45
4:WJ:201:TYR:HB3	4:WK:166:GLU:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:265:LEU:CB	4:WJ:281:TYR:HB3	2.47	0.45
4:WK:79:ILE:CG1	4:WK:109:LEU:HA	2.46	0.45
4:WK:176:ASP:HB3	4:WK:231:ARG:HG3	1.98	0.45
4:Wj:102:TRP:CZ3	4:Wj:131:SER:HB2	2.52	0.45
4:Wj:472:TYR:HA	4:Wl:416:ILE:HG23	1.98	0.45
4:Wk:483:GLN:NE2	4:Wm:492:GLU:H	2.13	0.45
4:Wm:116:THR:HB	4:Wm:121:ALA:HB2	1.98	0.45
4:Wo:138:CYS:SG	4:Wo:140:PRO:HD2	2.57	0.45
4:Wo:296:PHE:CE2	4:Wo:383:ILE:HG13	2.52	0.45
4:XI:294:SER:HA	4:XI:298:LEU:HD22	1.98	0.45
4:XJ:76:ARG:NH2	4:XJ:78:THR:OG1	2.50	0.45
4:XJ:285:LEU:HD11	4:XJ:375:PHE:H	1.81	0.45
4:XJ:303:PRO:HG2	4:XJ:365:ILE:HG21	1.98	0.45
4:XK:338:ASP:HB3	4:XK:349:TRP:HD1	1.80	0.45
4:Xj:312:ARG:NH2	4:Xj:384:THR:OG1	2.50	0.45
4:Xj:518:GLY:N	4:Xn:594:THR:OG1	2.45	0.45
4:XI:180:VAL:HG13	4:XI:181:PHE:N	2.31	0.45
4:XI:263:ILE:HD12	4:XI:263:ILE:HA	1.79	0.45
4:Xm:88:ASP:CG	4:Xm:91:LYS:HZ2	2.24	0.45
4:Xm:194:LYS:HD2	4:Xm:243:GLN:HB2	1.98	0.45
4:Xo:321:ALA:O	4:Xo:324:VAL:HG12	2.16	0.45
5:YX:18:ALA:HA	5:YX:102:THR:HB	1.97	0.45
5:YX:118:LEU:HD21	5:YX:619:LEU:HD21	1.97	0.45
5:YX:442:SER:HA	5:YX:490:PHE:O	2.17	0.45
5:Yc:646:ARG:HG3	5:Yc:647:PRO:HD3	1.97	0.45
5:Yx:365:CYS:HA	5:Yx:379:ILE:HA	1.98	0.45
5:Yy:548:ILE:O	5:Yy:555:ARG:NE	2.49	0.45
5:Yy:712:ASN:ND2	5:Yy:720:ARG:HG3	2.31	0.45
5:Yy:926:PRO:HD2	5:Yy:985:GLU:HG2	1.97	0.45
5:Yy:1030:ILE:HD12	6:ac:7:ILE:HD11	1.97	0.45
6:aZ:16:PHE:HB2	6:ab:310:ILE:HB	1.99	0.45
6:ab:270:ARG:CZ	6:ab:317:PRO:HB3	2.46	0.45
6:ac:114:CYS:HA	6:ac:120:ASN:ND2	2.31	0.45
7:b0:291:GLN:HE22	7:b0:320:SER:HB2	1.81	0.45
7:b3:114:ASP:HB2	7:b3:131:ILE:HG13	1.97	0.45
7:b5:103:ILE:HD13	7:b5:182:ILE:HG22	1.98	0.45
7:b7:484:VAL:HG13	7:b7:485:SER:H	1.81	0.45
7:b9:34:GLN:O	7:b9:82:ARG:NH2	2.49	0.45
7:bN:494:TYR:O	7:bN:498:GLN:NE2	2.39	0.45
7:bO:110:TYR:HB2	7:bO:138:GLY:O	2.16	0.45
7:bO:117:THR:HG23	7:bO:127:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:66:MET:HG2	7:bP:468:VAL:HG21	1.98	0.45
7:bQ:109:ASN:ND2	7:bQ:176:SER:O	2.47	0.45
7:bY:118:VAL:HG22	7:bY:169:ALA:HB2	1.99	0.45
7:cA:110:TYR:N	7:cA:138:GLY:HA3	2.23	0.45
7:cC:49:ASP:OD1	7:cC:49:ASP:N	2.49	0.45
7:cE:559:MET:SD	7:cE:563:ASN:ND2	2.90	0.45
7:cE:609:ASP:OD1	7:cE:611:THR:OG1	2.29	0.45
7:cH:614:THR:C	7:cH:616:SER:H	2.24	0.45
7:cJ:30:ALA:HB3	7:cJ:359:TRP:CE2	2.52	0.45
7:cK:240:SER:OG	7:cK:335:SER:OG	2.32	0.45
7:cK:609:ASP:OD1	7:cK:611:THR:OG1	2.27	0.45
7:cM:430:ARG:HG3	7:cM:522:ILE:HD11	1.97	0.45
7:cO:432:ALA:HB2	7:cO:440:ASN:ND2	2.31	0.45
7:cP:159:GLU:HG3	7:cP:167:TRP:HE1	1.79	0.45
7:dU:131:ILE:HG21	7:dU:140:ILE:HG22	1.98	0.45
7:dU:271:TYR:CE2	7:dU:304:ILE:HG13	2.51	0.45
7:dU:576:ASN:ND2	7:dU:622:GLU:O	2.49	0.45
7:dW:456:TYR:HD2	7:dW:503:ILE:HG12	1.82	0.45
8:eW:113:THR:O	8:eW:113:THR:OG1	2.29	0.45
8:fA:593:GLY:HA3	8:fA:604:TRP:HA	1.99	0.45
8:fS:403:PRO:HA	8:fW:364:THR:HG21	1.98	0.45
8:fr:523:VAL:HG22	8:fr:524:VAL:H	1.81	0.45
8:fs:120:ARG:O	8:fs:155:ARG:NH1	2.49	0.45
8:fs:545:ARG:HG3	8:fs:549:GLY:HA2	1.98	0.45
11:hI:148:ASN:HB3	11:hw:49:ILE:HG23	1.98	0.45
11:hJ:20:LEU:HD21	11:hx:55:ASN:ND2	2.31	0.45
11:hK:140:LEU:HD12	11:hK:140:LEU:HA	1.76	0.45
11:hX:85:PHE:CD2	11:hX:155:VAL:HG11	2.51	0.45
11:hx:112:ILE:HD11	11:hx:126:GLU:HG2	1.98	0.45
11:hy:41:LEU:HD13	11:hz:142:LEU:HD22	1.98	0.45
12:iD:17:PHE:CE2	12:iD:28:PHE:HB3	2.51	0.45
12:iD:260:ASP:OD2	12:iD:289:ARG:NH1	2.50	0.45
14:k4:55:ARG:NH2	14:k4:82:PRO:O	2.49	0.45
14:IV:12:ALA:HB2	14:IV:22:THR:HG22	1.98	0.45
16:o0:113:ASN:ND2	16:o1:275:GLU:OE2	2.49	0.45
16:pA:295:VAL:HG13	16:pA:311:PHE:HB3	1.99	0.45
17:q7:37:LEU:HD23	17:q7:37:LEU:HA	1.79	0.45
1:S0:155:ASP:HA	1:S7:163:LEU:HB3	1.97	0.45
1:S0:325:TYR:HE1	1:S0:330:ARG:HG3	1.81	0.45
1:S0:363:HIS:CG	1:S0:396:ARG:HD3	2.51	0.45
1:S0:449:GLY:O	1:S7:481:SER:OG	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:69:GLY:HA2	1:S8:78:PRO:HB2	1.98	0.45
1:S4:146:SER:O	1:S4:164:LYS:HD2	2.15	0.45
1:S4:192:GLN:HG3	1:S6:188:GLN:HG3	1.99	0.45
1:S4:302:ILE:HG22	1:S4:304:ASP:H	1.82	0.45
1:S6:503:ASN:HB3	1:S6:507:LEU:HD23	1.98	0.45
1:S7:50:ALA:HA	1:S7:56:GLY:HA3	1.98	0.45
1:SA:2:SER:HB3	4:Wk:209:ASN:HB3	1.98	0.45
1:SP:63:GLU:HA	1:SP:66:VAL:HG22	1.98	0.45
1:SP:99:ARG:HD2	1:SQ:95:TYR:HE1	1.81	0.45
1:Sv:161:THR:HG21	1:Sx:156:ASP:HA	1.98	0.45
1:Sw:290:GLN:HG2	1:Sy:288:ILE:HD11	1.98	0.45
1:Sx:310:ASN:OD1	1:Sx:311:GLY:N	2.48	0.45
2:T1:18:ALA:HB3	2:T1:23:ILE:HG23	1.98	0.45
2:T7:35:PHE:O	2:T7:39:TYR:HD1	2.00	0.45
2:Td:31:ILE:HD13	2:Tf:31:ILE:HD11	1.98	0.45
2:Tf:60:ILE:HG13	2:Tf:62:HIS:CE1	2.51	0.45
2:Tf:166:SER:O	2:Tf:171:LYS:NZ	2.44	0.45
3:UN:42:GLN:NE2	3:UN:51:ASN:OD1	2.49	0.45
3:UN:142:ALA:HA	3:UN:161:LEU:HB2	1.99	0.45
3:Uq:7:LYS:HG3	4:Wm:316:ILE:HG21	1.98	0.45
3:VM:198:ALA:HA	3:VM:212:PHE:O	2.17	0.45
3:Vp:7:LYS:HB3	4:Xl:318:GLN:NE2	2.32	0.45
4:WI:213:GLY:O	4:WI:214:SER:OG	2.25	0.45
4:WI:478:TRP:CZ3	4:WI:600:ARG:HB2	2.52	0.45
4:Wj:361:ASP:N	4:Wj:365:ILE:O	2.49	0.45
4:Wn:157:SER:HB3	4:Wn:160:SER:HB3	1.99	0.45
4:Wo:237:ASN:OD1	4:Wo:238:ILE:N	2.49	0.45
4:XK:323:THR:HG21	4:XK:354:THR:HG23	1.97	0.45
4:Xj:132:ASP:OD1	4:Xj:132:ASP:N	2.49	0.45
4:Xl:172:GLN:HG2	4:Xl:173:GLY:H	1.82	0.45
4:Xm:311:VAL:HG13	4:Xm:320:LEU:HB2	1.98	0.45
4:Xm:358:VAL:HG13	4:Xm:369:LEU:HB2	1.98	0.45
4:Xn:20:ARG:HB2	5:Yx:923:SER:H	1.80	0.45
4:Xo:132:ASP:N	4:Xo:132:ASP:OD1	2.50	0.45
5:YC:138:ASN:O	5:YC:555:ARG:HD3	2.16	0.45
5:YC:908:HIS:HB2	6:ZD:332:PHE:HE1	1.80	0.45
5:YC:1019:PRO:HG3	6:ZD:93:ARG:HH11	1.82	0.45
5:YX:33:TYR:HB3	6:ZZ:156:LEU:HD22	1.98	0.45
5:YX:217:GLN:HG2	5:YX:218:THR:HG23	1.97	0.45
5:YX:345:TYR:O	5:YX:346:SER:OG	2.29	0.45
5:Yc:924:GLY:C	5:Yc:926:PRO:HD3	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:947:VAL:O	6:aD:117:ALA:HB1	2.17	0.45
5:Yy:22:GLN:HE21	5:Yy:68:PHE:HD1	1.65	0.45
5:Yy:300:LEU:HD22	5:Yy:329:ILE:HG12	1.98	0.45
5:Yy:309:GLU:OE1	5:Yy:322:ALA:HA	2.17	0.45
5:Yy:443:LEU:HG	5:Yy:490:PHE:HB2	1.99	0.45
5:Yy:614:PRO:HB2	5:Yy:617:VAL:HG22	1.97	0.45
6:ZD:93:ARG:HH22	6:ZD:110:ASP:HB3	1.81	0.45
6:aE:210:VAL:HG21	6:aE:242:VAL:HG21	1.97	0.45
6:aa:198:VAL:HG13	6:aa:202:ARG:HG3	1.97	0.45
6:aa:273:SER:HA	6:aa:311:TYR:O	2.16	0.45
7:b0:70:ASN:OD1	7:b0:457:GLN:NE2	2.46	0.45
7:b0:417:ILE:H	7:b0:417:ILE:HD13	1.81	0.45
7:b0:641:ASN:HA	7:cA:11:LYS:O	2.17	0.45
7:b3:100:GLU:HG2	7:b3:186:LYS:O	2.17	0.45
7:b3:571:ARG:NH2	7:b3:587:GLU:OE1	2.40	0.45
7:b5:152:ALA:O	7:b5:156:GLU:HG2	2.17	0.45
7:b6:66:MET:SD	7:b6:459:ASP:HB2	2.57	0.45
7:b8:151:ILE:O	7:b8:155:LYS:HG2	2.15	0.45
7:b9:69:MET:O	7:b9:73:GLN:HG2	2.16	0.45
7:bN:129:GLY:HA2	7:bN:146:PRO:HD3	1.99	0.45
7:bN:456:TYR:CZ	7:bN:465:ASN:HB3	2.51	0.45
7:bQ:99:ILE:HD12	7:bQ:150:ILE:HD13	1.99	0.45
7:bQ:368:VAL:HG12	7:bQ:370:VAL:HG22	1.98	0.45
7:bY:16:GLN:OE1	7:bY:48:VAL:HG12	2.16	0.45
7:cB:365:ARG:HA	7:cB:400:ARG:NH2	2.31	0.45
7:cB:423:VAL:HG13	7:cB:517:LEU:HD13	1.98	0.45
7:cD:495:ASN:OD1	7:cD:495:ASN:N	2.46	0.45
7:cF:455:LYS:HB2	7:cF:470:LEU:HD13	1.98	0.45
7:cG:349:GLU:N	7:cG:349:GLU:OE1	2.50	0.45
7:cH:97:GLY:O	7:cH:147:THR:OG1	2.29	0.45
7:cJ:414:VAL:HG23	7:cJ:422:ALA:HB1	1.98	0.45
7:cL:57:PRO:HB3	7:cL:62:ALA:HA	1.98	0.45
7:cP:228:GLY:HA2	7:cP:345:SER:HB3	1.98	0.45
7:cP:389:VAL:O	7:cP:393:VAL:HG23	2.17	0.45
7:cP:451:ASP:OD2	7:cP:470:LEU:HB3	2.16	0.45
7:dS:538:ASP:O	7:dS:550:ARG:HG3	2.16	0.45
7:dU:423:VAL:HG21	7:dU:513:GLN:HB3	1.99	0.45
7:dW:112:VAL:HG13	7:dW:134:VAL:HG22	1.98	0.45
8:eB:364:THR:HG21	8:f9:403:PRO:HA	1.99	0.45
8:eB:543:THR:OG1	8:eB:576:ASP:OD1	2.33	0.45
8:f9:274:SER:O	8:f9:274:SER:OG	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fA:605:ASN:HB3	8:fA:608:LYS:HZ3	1.80	0.45
8:fS:386:THR:HA	8:fS:389:ARG:HG2	1.97	0.45
11:h1:88:TRP:CE2	11:h1:134:PRO:HD3	2.51	0.45
11:hL:58:ILE:HG22	11:hM:160:ASP:HB3	1.98	0.45
11:hM:58:ILE:H	11:hM:58:ILE:HG12	1.68	0.45
11:hh:45:ILE:HG23	11:hh:65:THR:O	2.16	0.45
11:hi:16:ALA:HB2	11:ht:76:ASP:O	2.16	0.45
11:hk:114:ARG:HB3	11:hk:123:VAL:HG13	1.98	0.45
11:hZ:137:VAL:HA	11:hZ:155:VAL:HG22	1.97	0.45
16:o2:32:LYS:O	16:o2:33:THR:OG1	2.30	0.45
16:o6:323:LYS:NZ	16:pA:309:GLU:OE2	2.40	0.45
16:pA:6:GLU:HB2	16:pA:7:ILE:H	1.51	0.45
16:pA:133:LYS:NZ	16:pA:210:ASP:OD2	2.48	0.45
16:pA:335:ALA:HB2	17:q9:37:LEU:HD12	1.97	0.45
17:q4:215:MET:HE3	17:q4:215:MET:HB2	1.48	0.45
1:S0:287:VAL:HA	1:S7:289:GLN:HA	1.98	0.45
1:S1:86:SER:HA	1:S1:97:LEU:HD12	1.99	0.45
1:S1:472:ARG:NH2	4:Xn:361:ASP:HB3	2.32	0.45
1:S1:509:GLY:HA3	1:S2:441:GLN:NE2	2.31	0.45
1:S2:157:THR:OG1	1:S2:158:THR:N	2.50	0.45
1:S5:165:THR:HG21	1:S7:160:MET:SD	2.56	0.45
1:S5:199:VAL:HG21	1:S5:214:THR:HB	1.97	0.45
1:S6:491:ASP:OD1	1:S6:491:ASP:N	2.48	0.45
1:S8:20:PRO:HD3	1:S8:29:ILE:HG21	1.98	0.45
1:S8:493:GLU:HG3	1:S8:496:ARG:NH2	2.31	0.45
1:SP:135:THR:N	1:SP:138:SER:O	2.41	0.45
1:SP:426:GLY:HA2	1:SQ:515:TRP:HZ2	1.81	0.45
1:Sv:145:SER:HB3	1:Sv:158:THR:HG21	1.99	0.45
1:Sv:235:GLU:OE1	1:Sv:243:VAL:HG11	2.17	0.45
1:Sw:77:THR:HG23	1:Sw:79:ALA:H	1.81	0.45
1:Sx:23:THR:OG1	1:Sx:25:PHE:O	2.31	0.45
1:Sx:386:ASN:ND2	1:Sx:389:ASN:HB2	2.30	0.45
1:Sx:446:LYS:H	1:Sz:503:ASN:CG	2.24	0.45
2:T1:216:THR:HG21	2:T2:222:LEU:HD13	1.99	0.45
2:T3:212:ARG:HG3	2:T3:213:LYS:HG3	1.98	0.45
2:T3:242:ASN:N	2:T3:249:ILE:HD11	2.32	0.45
2:T9:1:MET:HG3	2:T9:74:GLU:HB3	1.97	0.45
2:TH:102:GLU:N	2:TH:105:ASP:OD2	2.35	0.45
2:Tf:106:CYS:HB2	2:Tf:149:ARG:NE	2.31	0.45
3:UL:55:ALA:O	3:UL:59:VAL:HG23	2.15	0.45
3:Up:72:THR:CG2	3:Up:212:PHE:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Uq:32:ARG:NH1	3:Us:144:ASN:OD1	2.47	0.45
3:Ut:106:THR:HG21	4:Wn:269:LYS:HG3	1.99	0.45
3:Uu:23:LYS:HB3	3:Uu:26:ASP:HB2	1.97	0.45
3:VL:82:VAL:HB	3:VL:187:LYS:HB3	1.97	0.45
3:Vq:126:VAL:HG13	3:Vq:156:LEU:HD11	1.98	0.45
3:Vr:88:TRP:O	3:Vr:155:LYS:HA	2.17	0.45
4:WI:180:VAL:HG13	4:WI:181:PHE:H	1.82	0.45
4:WJ:258:TYR:O	4:WJ:259:THR:OG1	2.30	0.45
4:WJ:336:SER:O	4:WJ:336:SER:OG	2.31	0.45
4:WK:154:ILE:H	4:WK:154:ILE:HG13	1.51	0.45
4:WK:296:PHE:CE2	4:WK:383:ILE:HG13	2.51	0.45
4:Wj:554:GLY:O	4:Wn:555:CYS:HB2	2.17	0.45
4:Wm:326:MET:HG3	4:Wm:327:PRO:HD3	1.99	0.45
4:Wn:304:ILE:HD13	4:Wn:309:LEU:HD12	1.98	0.45
4:Wo:177:PHE:HB2	4:Wo:230:ILE:HD11	1.98	0.45
4:Wo:211:ASP:OD1	4:Wo:233:ARG:HB3	2.15	0.45
4:XI:30:PHE:CE2	4:XK:26:ILE:HG13	2.51	0.45
4:XI:214:SER:OG	4:XI:222:LEU:O	2.32	0.45
4:XI:360:THR:HB	4:XI:365:ILE:O	2.16	0.45
4:XI:569:TYR:HE1	4:XJ:544:VAL:HG22	1.82	0.45
4:XJ:161:ASN:OD1	4:XJ:161:ASN:N	2.49	0.45
4:XJ:317:LEU:HD13	4:XK:312:ARG:NH1	2.27	0.45
4:XK:2:LYS:O	4:XK:29:ASN:ND2	2.50	0.45
4:XK:72:THR:HG22	4:XK:77:VAL:HG13	1.98	0.45
4:XK:425:PHE:O	4:XK:479:LYS:NZ	2.41	0.45
4:XK:468:ASN:HB3	4:XK:471:THR:HG23	1.99	0.45
4:Xj:403:THR:O	4:Xj:407:TYR:HB2	2.15	0.45
4:Xk:148:ASN:ND2	4:Xk:156:SER:HA	2.32	0.45
4:Xk:339:GLU:HG3	4:Xk:340:VAL:HG13	1.99	0.45
4:XI:19:LEU:HA	5:Yx:921:TRP:NE1	2.31	0.45
4:Xn:150:GLN:HB2	4:Xn:152:ASP:OD2	2.16	0.45
4:Xn:259:THR:OG1	4:Xn:385:TRP:HB2	2.17	0.45
5:YC:312:THR:OG1	5:YC:368:MET:O	2.29	0.45
5:YC:324:ASP:HB2	5:YC:357:ILE:HG22	1.98	0.45
5:YX:256:GLY:HA2	5:YX:294:PHE:CD1	2.51	0.45
5:YX:1014:ASP:OD1	5:YX:1015:ASN:N	2.41	0.45
5:YY:366:TYR:CD1	5:YY:380:ILE:HD11	2.52	0.45
5:YY:403:ILE:HD13	5:YY:501:PHE:HE2	1.80	0.45
5:YY:906:LEU:HD13	6:Za:334:PHE:HD1	1.81	0.45
5:Yc:148:ASN:HB2	5:Yc:168:ILE:HG13	1.99	0.45
5:Yc:447:ASN:ND2	6:ZD:73:THR:HG23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:509:TYR:HB2	6:ZE:175:ASP:CG	2.41	0.45
5:Yx:302:ALA:O	5:Yx:303:ASN:ND2	2.49	0.45
5:Yx:305:TYR:CD2	5:Yx:306:ARG:HG3	2.52	0.45
5:Yx:442:SER:HA	5:Yx:490:PHE:O	2.17	0.45
5:Yx:477:ARG:HD3	6:ac:154:LEU:HD13	1.97	0.45
5:Yy:443:LEU:HD23	5:Yy:501:PHE:CE2	2.52	0.45
6:Zb:114:CYS:HA	6:Zb:120:ASN:ND2	2.32	0.45
6:Zc:51:GLU:HA	6:Zc:56:PHE:CD2	2.51	0.45
6:Zc:198:VAL:HG13	6:Zc:202:ARG:HG3	1.99	0.45
6:aD:228:ASN:HB3	6:aD:231:TRP:HD1	1.81	0.45
7:b0:564:ILE:HD11	7:b5:642:PHE:CZ	2.50	0.45
7:b5:556:LEU:HD23	7:b5:560:LEU:HD13	1.98	0.45
7:b7:373:PHE:HB2	7:b7:405:VAL:HG22	1.98	0.45
7:b7:440:ASN:ND2	7:b7:442:ASN:HB2	2.31	0.45
7:b7:614:THR:C	7:b7:616:SER:H	2.24	0.45
7:bO:430:ARG:HD3	7:bO:430:ARG:O	2.16	0.45
7:cA:351:THR:OG1	7:cA:352:ALA:N	2.49	0.45
7:cA:360:ASP:OD1	7:cA:392:HIS:NE2	2.47	0.45
7:cD:47:GLU:OE1	7:cD:461:TYR:OH	2.31	0.45
7:cD:505:LEU:HD22	7:cD:533:TYR:HD2	1.81	0.45
7:cD:653:GLU:H	7:cD:653:GLU:HG2	1.57	0.45
7:cG:601:ILE:HG23	7:cG:630:GLN:H	1.81	0.45
7:cH:108:SER:OG	7:cH:137:ASP:OD2	2.34	0.45
7:cI:413:THR:OG1	7:cI:425:ASN:HB3	2.16	0.45
7:cJ:441:PHE:CZ	7:cJ:443:ILE:HD11	2.51	0.45
7:cL:490:SER:OG	7:cL:538:ASP:OD2	2.31	0.45
7:cM:108:SER:OG	7:cM:137:ASP:OD2	2.35	0.45
7:cM:379:ALA:O	7:cM:381:GLU:N	2.45	0.45
7:cO:496:ARG:HB2	7:cO:496:ARG:HH11	1.82	0.45
7:dS:488:TRP:O	7:dS:552:ASN:ND2	2.49	0.45
7:dV:246:LYS:HB2	7:dV:250:ALA:HB2	1.98	0.45
7:dV:460:LYS:H	7:dV:460:LYS:HG3	1.40	0.45
7:dZ:383:LEU:HD11	7:dZ:436:TYR:HE2	1.81	0.45
8:eB:240:GLU:N	8:eB:240:GLU:OE1	2.49	0.45
8:eU:246:ASN:OD1	8:eU:246:ASN:N	2.48	0.45
8:f9:419:ASN:OD1	8:f9:652:THR:OG1	2.34	0.45
8:fA:486:ARG:HA	8:fA:486:ARG:HD3	1.79	0.45
8:fB:452:VAL:O	8:fB:457:SER:OG	2.23	0.45
8:fU:52:ARG:HB2	15:m1:11:ILE:HG23	1.99	0.45
8:fW:134:TYR:CE1	8:fW:142:PRO:HG3	2.52	0.45
8:fs:106:ALA:H	8:fs:169:GLN:HB3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fs:114:CYS:HB3	8:fs:297:VAL:HG12	1.98	0.45
9:gG:344:LYS:HD3	9:gG:344:LYS:HA	1.76	0.45
11:h2:140:LEU:HA	11:h2:140:LEU:HD12	1.72	0.45
11:hh:48:LYS:HG3	11:hh:59:ASN:HB3	1.99	0.45
11:hk:114:ARG:HG2	11:hk:126:GLU:HG3	1.98	0.45
11:hm:137:VAL:HB	11:hm:155:VAL:HG13	1.99	0.45
11:hp:56:ARG:HG3	11:hr:99:ILE:HG12	1.97	0.45
11:hu:45:ILE:HG23	11:hu:65:THR:O	2.16	0.45
11:hv:113:VAL:HG13	11:hv:127:ILE:HG12	1.99	0.45
12:iC:248:MET:HE3	12:iC:248:MET:HB2	1.84	0.45
12:iD:193:MET:HG2	12:iD:319:THR:HG21	1.98	0.45
12:iD:255:ALA:O	12:iD:289:ARG:NH2	2.50	0.45
12:iD:313:ILE:H	12:iD:313:ILE:HD12	1.82	0.45
12:iD:334:LYS:HE2	12:iD:334:LYS:HB3	1.78	0.45
14:kV:151:ALA:HB2	16:o6:12:ILE:HG13	1.99	0.45
15:mT:19:TRP:CE3	15:mT:20:ASN:HB3	2.51	0.45
16:o0:52:PHE:O	16:o0:53:GLN:NE2	2.49	0.45
16:o2:78:ARG:HB3	16:o2:107:SER:HB2	1.97	0.45
16:o6:318:SER:HB3	16:o6:347:THR:HG23	1.98	0.45
16:pA:129:LEU:HD21	16:pA:225:ILE:HD13	1.98	0.45
16:pA:246:ILE:HD11	16:pA:262:LEU:HB2	1.97	0.45
17:q3:165:ASP:HB3	17:q3:167:GLU:O	2.16	0.45
1:S0:63:GLU:OE1	1:S0:80:THR:HA	2.16	0.45
1:S0:422:LYS:NZ	1:S5:498:SER:O	2.50	0.45
1:S1:127:ASN:O	1:S1:131:THR:HG23	2.16	0.45
1:S2:77:THR:HG23	1:S2:80:THR:H	1.82	0.45
1:S4:96:GLY:C	1:S8:97:LEU:HD22	2.41	0.45
1:S4:166:GLN:HG3	1:S4:170:ILE:HD12	1.98	0.45
1:S4:264:LYS:NZ	1:S6:260:ARG:HG3	2.32	0.45
1:S4:314:ASN:HB2	1:S8:307:THR:HG23	1.98	0.45
1:S5:63:GLU:HA	1:S5:66:VAL:HG22	1.97	0.45
1:SA:57:ILE:HG22	1:Sw:55:LYS:HB3	1.97	0.45
1:SA:88:PRO:HG2	1:SA:95:TYR:O	2.16	0.45
1:SA:230:LEU:HD21	1:Sw:242:SER:HA	1.97	0.45
1:SA:512:THR:HA	1:Sw:442:MET:HA	1.98	0.45
1:SO:61:PRO:HB3	1:SO:74:LYS:HD3	1.98	0.45
1:SP:362:CYS:HB3	1:SP:393:PRO:HB2	1.97	0.45
1:SP:425:LEU:HD21	1:SQ:507:LEU:HB2	1.98	0.45
1:Sv:229:LYS:HB3	1:Sx:225:LYS:HG2	1.99	0.45
1:Sw:77:THR:HG22	1:Sw:80:THR:H	1.81	0.45
1:Sx:477:TRP:CG	4:XJ:412:PRO:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sx:515:TRP:CZ2	1:Sz:439:ILE:HG23	2.52	0.45
1:Sz:360:ARG:HG3	1:Sz:525:VAL:HG21	1.98	0.45
2:Td:17:ASN:OD1	2:Td:18:ALA:N	2.49	0.45
3:UM:17:PHE:CD1	3:UM:47:PHE:HB2	2.52	0.45
3:Up:40:ILE:HA	3:Up:43:LEU:HD12	1.99	0.45
3:Up:126:VAL:HG13	3:Up:156:LEU:HD11	1.97	0.45
3:Uq:90:PHE:HE1	3:Uq:178:ILE:HG23	1.81	0.45
3:Us:7:LYS:HB3	4:Wo:318:GLN:NE2	2.30	0.45
3:Us:88:TRP:O	3:Us:155:LYS:HA	2.17	0.45
3:VM:30:MET:O	3:VM:32:ARG:HG2	2.16	0.45
3:Vp:11:ILE:O	3:Vt:7:LYS:HD2	2.17	0.45
3:Vq:16:ASP:OD2	3:Vq:45:LYS:NZ	2.34	0.45
4:Wl:117:ILE:HD12	4:Wl:118:LYS:H	1.80	0.45
4:Wj:49:TRP:CG	4:Wj:67:SER:HG	2.33	0.45
4:Wk:241:THR:HG21	4:Wo:200:LEU:HD13	1.97	0.45
4:Wk:294:SER:HA	4:Wk:298:LEU:HD22	1.97	0.45
4:Wl:162:VAL:HB	4:Wl:247:PHE:CD1	2.51	0.45
4:Wm:356:TYR:O	4:Wm:357:SER:HB2	2.16	0.45
4:Wn:323:THR:HG23	4:Wn:359:GLU:HB2	1.99	0.45
4:Wn:468:ASN:HB3	4:Wn:471:THR:HG23	1.99	0.45
4:XI:204:ASP:OD1	4:XI:204:ASP:N	2.48	0.45
4:XI:276:LEU:HD22	4:XI:280:ILE:HD12	1.98	0.45
4:XJ:94:ARG:NH1	4:XJ:134:GLU:OE2	2.49	0.45
4:XJ:130:PHE:O	4:XJ:150:GLN:HB3	2.16	0.45
4:XJ:292:PRO:O	4:XJ:294:SER:N	2.47	0.45
4:Xk:195:HIS:NE2	4:Xk:236:CYS:SG	2.89	0.45
4:Xl:117:ILE:HG22	4:Xl:143:TRP:HB2	1.98	0.45
4:Xm:253:GLN:NE2	4:Xo:249:ASP:OD2	2.50	0.45
4:Xn:396:LYS:HG3	4:Xn:399:ILE:HD11	1.98	0.45
5:YC:400:ASP:OD1	5:YC:404:TYR:OH	2.34	0.45
5:YC:981:GLN:HG2	5:YC:982:LEU:N	2.30	0.45
5:YY:357:ILE:HA	5:YY:413:TRP:CD1	2.52	0.45
5:YY:467:LEU:HD21	6:aZ:57:ALA:H	1.81	0.45
5:YY:549:PRO:O	5:YY:552:SER:OG	2.32	0.45
5:Yc:189:ARG:HB2	5:Yc:203:GLU:OE2	2.17	0.45
5:Yc:191:TYR:HD1	5:Yc:235:LYS:HA	1.81	0.45
5:Yc:248:LEU:CD2	5:Yc:249:GLY:H	2.30	0.45
5:Yx:204:ARG:O	5:Yx:230:GLY:N	2.49	0.45
5:Yx:242:ALA:HA	5:Yx:519:LYS:HB2	1.97	0.45
5:Yy:81:ARG:HG2	5:Yy:94:TRP:HE3	1.82	0.45
5:Yy:642:ASP:OD1	5:Yy:687:ARG:NH1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:658:LEU:O	5:Yy:665:GLU:HB2	2.17	0.45
6:ZD:173:ARG:NH1	6:ZD:227:ASP:OD2	2.50	0.45
6:ZD:270:ARG:NH2	6:ZD:317:PRO:HB3	2.32	0.45
6:Zc:248:ARG:HG2	6:Zc:250:LYS:HG3	1.98	0.45
7:b3:99:ILE:HD12	7:b3:150:ILE:HG21	1.97	0.45
7:b3:614:THR:C	7:b3:616:SER:H	2.25	0.45
7:b4:281:ILE:HG13	7:b4:295:LEU:HD12	1.98	0.45
7:b4:284:ARG:HG2	7:b4:289:ILE:HD13	1.99	0.45
7:b4:400:ARG:NH1	7:b4:402:ASP:OD1	2.49	0.45
7:b9:410:PRO:O	7:b9:413:THR:HG22	2.16	0.45
7:bO:11:LYS:HB3	7:bO:13:THR:HG23	1.98	0.45
7:bO:487:THR:HG21	7:bO:559:MET:HE3	1.98	0.45
7:bP:30:ALA:HB3	7:bP:359:TRP:CE2	2.52	0.45
7:bR:488:TRP:HB3	7:bR:556:LEU:HG	1.98	0.45
7:cB:43:GLN:NE2	7:cB:77:ASP:OD1	2.49	0.45
7:cB:462:ASN:HB2	7:cB:464:VAL:HG22	1.98	0.45
7:cD:46:ASN:OD1	7:cD:47:GLU:N	2.50	0.45
7:cD:153:LYS:HB3	7:cD:167:TRP:HH2	1.82	0.45
7:cD:373:PHE:HB2	7:cD:405:VAL:HA	1.99	0.45
7:cE:403:CYS:O	7:cE:558:ASN:ND2	2.45	0.45
7:cG:104:SER:HB2	7:cG:181:VAL:HB	1.99	0.45
7:cG:383:LEU:HD11	7:cG:436:TYR:CE2	2.51	0.45
7:cG:441:PHE:CZ	7:cG:443:ILE:HD11	2.52	0.45
7:cO:494:TYR:HE2	7:cO:528:THR:HG21	1.82	0.45
7:cO:515:ASP:OD1	7:cP:5:SER:N	2.50	0.45
7:cP:392:HIS:O	7:cP:395:SER:OG	2.27	0.45
7:dT:114:ASP:HB3	7:dT:175:SER:HB2	1.98	0.45
7:dT:154:ALA:HB1	7:dT:159:GLU:O	2.17	0.45
7:dT:490:SER:OG	7:dT:538:ASP:OD2	2.23	0.45
7:dU:411:ARG:HG3	7:dU:415:VAL:HG21	1.98	0.45
7:dV:344:LEU:HD12	7:dV:346:SER:HB3	1.98	0.45
8:eB:49:GLU:HB3	15:mT:53:PHE:CE1	2.51	0.45
8:eU:303:ASN:N	8:eU:304:PRO:HD3	2.31	0.45
8:eU:636:ASP:OD1	8:eU:636:ASP:N	2.48	0.45
8:eW:257:ILE:HG22	8:eW:258:GLY:H	1.80	0.45
8:eW:554:ILE:CG2	8:eW:589:TYR:HB3	2.46	0.45
8:fB:40:GLN:HG2	8:fB:42:GLU:H	1.82	0.45
8:fS:339:CYS:HB3	8:fS:348:PHE:HD2	1.81	0.45
8:fU:257:ILE:HG22	8:fU:258:GLY:H	1.81	0.45
8:fU:425:ALA:HB2	8:fU:476:ILE:HD13	1.99	0.45
8:fW:77:GLU:O	8:fW:88:SER:OG	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hJ:147:ASN:HB3	11:hX:63:ASP:HB3	1.99	0.45
11:hX:48:LYS:HG3	11:hX:59:ASN:HB3	1.98	0.45
11:hg:136:ASN:HB3	11:hg:156:THR:HG23	1.99	0.45
11:hm:140:LEU:HD11	11:hm:151:GLN:HG2	1.97	0.45
14:k4:36:PHE:O	14:k4:40:LEU:HB2	2.16	0.45
14:k7:48:TYR:CZ	14:k7:63:ILE:HD11	2.51	0.45
14:IV:43:TYR:OH	14:IV:183:ASP:OD2	2.26	0.45
15:m2:89:ASP:CG	15:m2:90:LYS:H	2.24	0.45
16:o0:57:LEU:HD13	16:o0:58:TYR:CD2	2.52	0.45
16:o0:131:ARG:HD3	16:o1:329:PHE:CE2	2.51	0.45
16:o6:142:ARG:NH1	16:o6:201:GLU:HG2	2.32	0.45
16:pA:320:ARG:NH2	16:pA:322:ASP:OD2	2.49	0.45
17:q8:133:ASN:OD1	17:q8:153:ARG:NH1	2.40	0.45
18:rd:11:UNK:O	18:rd:13:UNK:N	2.50	0.45
1:S2:418:ASP:OD1	1:S2:422:LYS:N	2.50	0.45
1:S3:2:SER:HA	4:XI:200:LEU:HD22	1.98	0.45
1:S4:20:PRO:HB3	1:S4:29:ILE:HG13	1.99	0.45
1:S4:62:THR:HG23	1:S4:64:GLN:H	1.82	0.45
1:S4:84:ARG:HD3	1:S8:81:LEU:HD23	1.98	0.45
1:S4:368:SER:HB3	1:S4:371:ASP:HB3	1.98	0.45
1:S6:236:VAL:O	1:S6:253:ARG:NH1	2.50	0.45
1:S7:45:ASN:OD1	1:S7:45:ASN:N	2.50	0.45
1:S8:359:TRP:CE2	1:S8:524:LYS:HD3	2.52	0.45
1:SO:196:VAL:HA	1:SO:199:VAL:HG22	1.99	0.45
1:Sw:291:ARG:HH22	1:Sy:269:ALA:HB3	1.82	0.45
1:Sx:245:VAL:O	1:Sz:245:VAL:N	2.48	0.45
2:TF:20:THR:HG23	2:TF:24:LEU:HD12	1.97	0.45
2:TG:19:SER:HB2	5:YC:257:ARG:HH12	1.82	0.45
3:UN:36:GLY:HA2	3:UN:55:ALA:N	2.32	0.45
3:Uq:96:ASP:OD1	3:Uq:98:SER:OG	2.29	0.45
3:Uq:198:ALA:O	3:Us:203:LEU:HB3	2.17	0.45
3:Uu:14:LEU:O	3:Uu:16:ASP:N	2.49	0.45
3:Vp:74:LYS:HE3	3:Vp:210:THR:HG23	1.97	0.45
3:Vp:84:GLN:HB2	3:Vp:186:SER:HB3	1.97	0.45
3:Vq:47:PHE:CZ	3:Vq:49:GLU:HB2	2.51	0.45
3:Vs:130:ARG:HE	3:Vs:148:ASP:CG	2.24	0.45
4:WJ:187:ASN:HB2	4:WJ:248:MET:HE2	1.97	0.45
4:WK:12:ASP:OD1	5:YC:957:PRO:HG2	2.17	0.45
4:Wj:292:PRO:HA	4:Wj:368:ILE:HG22	1.99	0.45
4:Wj:311:VAL:HG13	4:Wj:320:LEU:HB2	1.99	0.45
4:Wk:302:GLU:HG3	4:Wk:303:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:568:LYS:NZ	4:Wm:551:ILE:HG23	2.32	0.45
4:Wl:290:SER:HA	4:Wl:371:PHE:N	2.28	0.45
4:Wm:542:LEU:HD12	4:Wo:542:LEU:HD12	1.98	0.45
4:Wo:79:ILE:CG1	4:Wo:109:LEU:HA	2.47	0.45
4:XJ:162:VAL:HB	4:XJ:247:PHE:CD1	2.51	0.45
4:XJ:320:LEU:HA	4:XJ:357:SER:HB3	1.99	0.45
4:XK:344:VAL:HG12	4:XK:349:TRP:H	1.82	0.45
4:Xj:7:ILE:HG21	4:Xl:24:ILE:HG13	1.98	0.45
4:Xl:342:CYS:HB3	4:Xl:349:TRP:CH2	2.51	0.45
4:Xn:213:GLY:N	4:Xn:231:ARG:O	2.49	0.45
4:Xo:34:TYR:OH	4:Xo:41:ASP:O	2.31	0.45
4:Xo:72:THR:HG22	4:Xo:77:VAL:HG22	1.97	0.45
5:YC:405:VAL:O	5:YC:411:LYS:NZ	2.50	0.45
5:YC:603:ARG:HB2	5:YX:848:LEU:HD22	1.99	0.45
5:YC:657:TYR:CD2	8:eB:52:ARG:HD3	2.51	0.45
5:YC:902:VAL:HG23	6:ZD:12:VAL:HG11	1.98	0.45
5:YC:908:HIS:HE1	5:YC:1029:LYS:HD3	1.80	0.45
5:YX:248:LEU:HD12	5:YX:311:ILE:HD11	1.99	0.45
5:YX:719:LYS:HA	5:YX:719:LYS:HD2	1.64	0.45
5:YX:793:CYS:SG	5:YX:820:LEU:HD11	2.57	0.45
5:YY:170:GLU:O	5:YY:538:ASP:HA	2.16	0.45
5:YY:378:LEU:HA	5:YY:403:ILE:HA	1.98	0.45
5:YY:712:ASN:ND2	5:YY:720:ARG:HG3	2.32	0.45
5:YY:855:ILE:HG13	5:YY:856:ASN:H	1.82	0.45
5:Yc:694:TYR:HD1	8:fB:91:GLN:HE22	1.63	0.45
5:Yc:796:THR:OG1	5:Yc:861:TYR:O	2.30	0.45
5:Yx:12:ARG:NH1	6:ab:50:ASN:OD1	2.50	0.45
5:Yx:454:ASN:OD1	5:Yx:454:ASN:N	2.49	0.45
5:Yy:341:LEU:HD13	5:Yy:343:PRO:HD3	1.98	0.45
5:Yy:851:ASN:HD22	8:fW:389:ARG:HD2	1.82	0.45
6:ZD:114:CYS:HA	6:ZD:120:ASN:CG	2.42	0.45
6:ZD:202:ARG:HH11	6:ZD:209:VAL:HG11	1.80	0.45
6:Za:40:THR:HA	6:Za:77:GLY:O	2.16	0.45
6:Za:49:SER:OG	6:Za:50:ASN:N	2.45	0.45
6:Zb:135:ASP:OD1	6:Zb:136:VAL:N	2.48	0.45
6:Zb:270:ARG:CZ	6:Zb:317:PRO:HB3	2.46	0.45
6:aD:269:PHE:CE1	6:aD:272:ILE:HD11	2.52	0.45
6:aD:309:MET:HE2	6:aD:312:MET:HG2	1.99	0.45
6:ab:37:ILE:HG21	6:ab:249:PHE:HE2	1.82	0.45
7:b0:23:SER:O	7:b0:76:ASN:HB2	2.16	0.45
7:b3:446:THR:OG1	7:b3:554:ARG:NH2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b4:24:THR:HB	7:b4:483:ASN:HD21	1.82	0.45
7:b4:614:THR:C	7:b4:616:SER:H	2.25	0.45
7:b5:391:LYS:HG2	7:b5:443:ILE:HD13	1.99	0.45
7:b6:617:VAL:HG22	7:b6:622:GLU:HB2	1.98	0.45
7:b8:152:ALA:O	7:b8:156:GLU:HG2	2.16	0.45
7:b9:66:MET:HG2	7:b9:468:VAL:HG21	1.98	0.45
7:b9:365:ARG:HA	7:b9:400:ARG:HH21	1.82	0.45
7:b9:453:ASN:ND2	7:b9:525:VAL:O	2.44	0.45
7:bQ:46:ASN:HD22	7:bQ:47:GLU:H	1.63	0.45
7:bQ:66:MET:HG2	7:bQ:468:VAL:HG21	1.99	0.45
7:bQ:221:GLY:O	7:bQ:325:ALA:HA	2.17	0.45
7:bY:29:LEU:O	7:bY:80:VAL:HA	2.15	0.45
7:cF:494:TYR:HE2	7:cF:528:THR:HG21	1.80	0.45
7:cF:585:ARG:HG3	7:cF:608:CYS:HB3	1.98	0.45
7:cG:538:ASP:O	7:cG:550:ARG:HA	2.16	0.45
7:cG:572:LEU:O	7:cG:573:PHE:C	2.60	0.45
7:cK:379:ALA:HB2	7:cK:454:TYR:CE2	2.50	0.45
7:dS:11:LYS:O	7:dZ:639:THR:HA	2.16	0.45
7:dU:32:LYS:NZ	7:dU:60:GLU:OE2	2.50	0.45
7:dU:349:GLU:OE2	16:o0:5:LYS:HG3	2.17	0.45
7:dV:453:ASN:HB3	7:dV:507:ILE:HG12	1.99	0.45
7:dW:572:LEU:HD12	7:dW:572:LEU:HA	1.76	0.45
8:fA:584:ASP:HB3	8:fA:586:ARG:HH11	1.82	0.45
8:fB:493:LYS:HB2	8:fB:493:LYS:HE3	1.85	0.45
8:fB:544:ASP:OD1	8:fB:545:ARG:N	2.49	0.45
8:fS:8:TYR:CZ	8:fS:19:GLU:HB2	2.52	0.45
8:fS:110:ILE:HG22	8:fS:165:LEU:HB2	1.99	0.45
8:fS:251:ALA:HB2	8:fW:337:GLN:HG2	1.98	0.45
8:fS:523:VAL:O	8:fS:531:GLU:HB3	2.16	0.45
8:fU:579:LYS:NZ	8:fU:587:ASP:OD2	2.43	0.45
8:fr:113:THR:HG23	8:fr:299:ASN:HB3	1.99	0.45
8:fs:291:THR:HG22	12:iF:156:TYR:HD1	1.82	0.45
9:gH:193:ASP:OD2	9:gH:199:THR:OG1	2.34	0.45
9:gH:330:ILE:HD12	9:gH:336:LEU:HD12	1.98	0.45
11:h2:137:VAL:HA	11:h2:155:VAL:HG22	1.99	0.45
11:hL:104:PRO:O	11:hL:108:LYS:HB2	2.16	0.45
11:hi:41:LEU:HD12	11:hi:41:LEU:HA	1.83	0.45
11:hi:106:GLU:O	11:hi:109:LYS:NZ	2.48	0.45
11:hk:75:ASN:HB3	11:hk:151:GLN:HB3	1.98	0.45
11:ho:133:TRP:CH2	11:hv:61:ALA:HA	2.52	0.45
11:hp:42:PRO:HB2	11:hp:43:ALA:H	1.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hp:140:LEU:HD13	11:hp:153:PHE:HB3	1.98	0.45
12:iC:41:ARG:HH22	12:iC:47:ARG:HD2	1.81	0.45
12:iD:318:LEU:HD23	12:iD:355:LEU:HD11	1.98	0.45
14:IV:36:PHE:O	14:IV:40:LEU:HB2	2.17	0.45
15:nT:22:ASP:OD1	15:nT:22:ASP:N	2.48	0.45
16:o1:332:LEU:HD13	17:q3:191:LEU:HD21	1.97	0.45
16:o2:233:SER:O	16:pB:141:HIS:NE2	2.49	0.45
16:o6:32:LYS:O	16:o6:33:THR:OG1	2.29	0.45
16:o6:56:ASP:OD1	16:o6:56:ASP:N	2.46	0.45
16:o6:332:LEU:HD21	16:o6:340:SER:HA	1.99	0.45
16:pB:208:THR:HB	16:pB:345:GLU:HG2	1.98	0.45
17:q3:139:THR:HG21	17:q7:155:LEU:HD12	1.98	0.45
17:q5:219:HIS:HB2	17:q5:244:ALA:O	2.16	0.45
1:S0:166:GLN:HA	1:S0:170:ILE:HD12	1.99	0.45
1:S1:176:ILE:HG23	1:S1:177:ALA:N	2.32	0.45
1:S1:511:GLU:HB3	1:S1:513:ARG:NH1	2.32	0.45
1:S5:60:ILE:O	1:S7:52:SER:HA	2.17	0.45
1:S7:466:SER:HB3	1:S7:468:PHE:CE2	2.51	0.45
1:Sv:239:ASN:OD1	1:Sv:253:ARG:NH2	2.50	0.45
1:Sw:13:SER:HB2	1:Sy:18:PHE:HA	1.98	0.45
1:Sw:63:GLU:HA	1:Sw:66:VAL:HG22	1.99	0.45
1:Sw:433:TYR:CE2	1:Sw:436:GLU:HB2	2.52	0.45
1:Sx:493:GLU:HG3	1:Sx:496:ARG:NH2	2.31	0.45
1:Sy:263:VAL:HG12	1:Sy:278:SER:HB3	1.98	0.45
1:Sy:453:GLU:OE2	1:Sy:471:THR:N	2.43	0.45
1:Sz:382:ARG:HG3	1:Sz:383:TYR:CD1	2.52	0.45
2:T2:202:LEU:HB3	2:T2:278:VAL:HG22	1.98	0.45
2:T5:7:LYS:HE3	2:T9:53:GLY:HA3	1.98	0.45
2:T5:100:ARG:HB2	2:T5:127:ILE:HG21	1.99	0.45
2:T6:24:LEU:HD11	2:T8:24:LEU:HD21	1.99	0.45
2:TF:17:ASN:OD1	2:TF:18:ALA:N	2.49	0.45
2:TF:61:ILE:O	2:TG:4:GLN:NE2	2.39	0.45
2:TF:70:HIS:ND1	2:TF:74:GLU:OE1	2.49	0.45
2:Td:236:ALA:HB2	2:Tf:235:TYR:HE2	1.81	0.45
3:UN:23:LYS:HB3	3:UN:26:ASP:HB2	1.99	0.45
3:Up:164:GLN:NE2	3:Ut:54:SER:O	2.48	0.45
3:Uq:107:VAL:HG22	3:Uq:174:TYR:HD2	1.81	0.45
3:Ur:198:ALA:HA	3:Ur:212:PHE:O	2.15	0.45
3:Uu:87:TYR:HB2	3:Uu:181:GLU:HB2	1.99	0.45
3:Vp:120:MET:HB3	3:Vp:124:GLU:HB2	1.99	0.45
3:Vs:72:THR:OG1	3:Vs:214:HIS:ND1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vs:87:TYR:CE1	3:Vs:157:GLU:HB2	2.52	0.45
3:Vt:90:PHE:CE1	3:Vt:178:ILE:HG23	2.52	0.45
3:Vu:102:GLY:N	3:Vu:118:THR:OG1	2.49	0.45
4:Wl:406:LEU:O	4:WK:409:SER:HA	2.17	0.45
4:WK:89:TYR:CE1	4:WK:139:ALA:HA	2.52	0.45
4:WK:89:TYR:O	4:WK:91:LYS:HG2	2.17	0.45
4:Wj:18:TYR:CE2	5:YX:942:ILE:HD11	2.52	0.45
4:Wj:58:GLN:OE1	4:Wj:58:GLN:N	2.50	0.45
4:Wj:206:PHE:HZ	4:Wj:221:GLU:HG3	1.80	0.45
4:Wj:207:SER:O	4:Wj:210:SER:OG	2.31	0.45
4:Wl:192:ARG:HB2	4:Wl:245:GLU:HB2	1.97	0.45
4:Wm:293:PHE:HB2	4:Wm:296:PHE:HD2	1.81	0.45
4:Wn:71:ASN:HA	4:Wn:99:PHE:HE1	1.81	0.45
4:Wn:326:MET:HE2	4:Wn:327:PRO:HG3	1.98	0.45
4:XI:117:ILE:HD12	4:XI:118:LYS:H	1.81	0.45
4:XI:180:VAL:HG13	4:XI:181:PHE:N	2.31	0.45
4:XI:552:VAL:HG11	4:XK:569:TYR:CE2	2.51	0.45
4:XJ:2:LYS:H	4:XK:41:ASP:HB3	1.82	0.45
4:XJ:195:HIS:ND1	4:XJ:199:GLU:OE1	2.50	0.45
4:XJ:357:SER:HB3	4:XJ:358:VAL:H	1.66	0.45
4:Xj:335:ASP:OD1	4:Xj:335:ASP:N	2.48	0.45
4:Xk:149:LYS:HG3	4:Xm:153:LYS:NZ	2.32	0.45
4:Xk:191:ILE:O	4:Xm:164:ARG:NH1	2.50	0.45
4:Xk:279:SER:HB2	4:Xo:326:MET:HB2	1.97	0.45
4:Xl:20:ARG:HH12	4:Xl:24:ILE:HD12	1.81	0.45
4:Xo:102:TRP:CE3	4:Xo:131:SER:HB2	2.52	0.45
5:YC:646:ARG:HG3	5:YC:647:PRO:HD3	1.99	0.45
5:YC:694:TYR:CZ	8:eB:227:ARG:HD2	2.52	0.45
5:YC:1014:ASP:OD1	5:YC:1015:ASN:N	2.40	0.45
5:YX:204:ARG:O	5:YX:230:GLY:N	2.50	0.45
5:YX:248:LEU:CD2	5:YX:249:GLY:H	2.29	0.45
5:YY:673:GLN:HE21	5:YY:673:GLN:HB3	1.50	0.45
5:YY:963:TYR:CG	5:YY:964:PRO:HD2	2.52	0.45
5:Yc:256:GLY:HA2	5:Yc:294:PHE:CD1	2.51	0.45
5:Yc:355:MET:HE3	5:Yc:409:ASP:HB2	1.98	0.45
5:Yc:671:TYR:OH	8:fA:63:ASN:O	2.34	0.45
5:Yx:119:ALA:O	5:Yx:123:ILE:HG22	2.17	0.45
5:Yx:300:LEU:HD13	5:Yx:329:ILE:HD11	1.99	0.45
5:Yx:435:SER:HB3	5:Yx:512:PRO:HA	1.98	0.45
5:Yx:1014:ASP:OD1	5:Yx:1015:ASN:N	2.39	0.45
6:Za:151:ASP:O	6:Za:155:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Za:228:ASN:HB3	6:Za:231:TRP:CD1	2.51	0.45
6:Zc:115:ASN:ND2	6:Zc:123:GLU:O	2.48	0.45
6:ab:272:ILE:H	6:ab:313:GLU:HB3	1.81	0.45
7:b3:148:ALA:O	7:b3:151:ILE:HG13	2.16	0.45
7:b4:135:ASP:OD1	7:b4:136:ALA:N	2.49	0.45
7:b7:33:PHE:HA	7:b7:61:THR:HG23	1.99	0.45
7:b9:510:ARG:H	7:b9:513:GLN:HE21	1.65	0.45
7:bN:40:GLN:H	7:bN:81:VAL:HG23	1.82	0.45
7:bR:264:THR:OG1	7:bR:284:ARG:NH2	2.50	0.45
7:bR:430:ARG:HD3	7:bR:430:ARG:O	2.17	0.45
7:cA:413:THR:OG1	7:cA:425:ASN:HB3	2.17	0.45
7:cA:467:TRP:HZ3	7:cJ:199:GLU:HB2	1.81	0.45
7:cC:40:GLN:H	7:cC:81:VAL:HG23	1.81	0.45
7:cD:101:TYR:O	7:cD:216:LYS:NZ	2.41	0.45
7:cH:450:ILE:HD13	7:cH:522:ILE:HG12	1.98	0.45
7:cI:495:ASN:OD1	7:cI:495:ASN:N	2.38	0.45
7:cI:651:PHE:O	7:cI:654:LEU:HB2	2.17	0.45
7:cM:40:GLN:H	7:cM:81:VAL:HG23	1.81	0.45
7:cO:157:VAL:HG23	7:cO:159:GLU:H	1.82	0.45
7:cP:647:THR:OG1	7:cP:650:ASP:HB3	2.17	0.45
7:dS:636:ASN:O	7:dT:8:ILE:HG23	2.17	0.45
7:dT:498:GLN:HA	7:dT:534:VAL:HG12	1.99	0.45
7:dU:129:GLY:HA2	7:dU:146:PRO:HD3	1.98	0.45
7:dU:303:ASP:CG	7:dU:304:ILE:H	2.25	0.45
7:dV:459:ASP:HB2	7:dV:466:ARG:HD2	1.99	0.45
7:dW:643:VAL:HG23	15:m1:109:ARG:HA	1.98	0.45
7:dZ:116:ILE:HG12	7:dZ:171:ILE:HG22	1.98	0.45
8:eB:257:ILE:HG22	8:eB:258:GLY:H	1.81	0.45
8:eB:318:ASP:HB2	8:eB:319:PRO:HD3	1.99	0.45
8:eB:461:LYS:HE2	8:eB:630:ASP:OD1	2.16	0.45
8:f9:135:ALA:HB2	8:f9:143:TYR:HE2	1.81	0.45
8:f9:413:TYR:HB3	8:f9:639:LEU:HD12	1.98	0.45
8:fA:41:ASN:OD1	8:fA:42:GLU:HG2	2.17	0.45
8:fR:215:VAL:HG23	8:fR:245:VAL:HG13	1.97	0.45
8:fS:130:ARG:NH1	12:iC:183:ASP:OD1	2.50	0.45
8:fS:227:ARG:HG3	8:fS:237:TYR:HE1	1.81	0.45
8:fU:504:GLN:NE2	8:fU:598:PRO:O	2.49	0.45
8:fW:389:ARG:C	8:fW:391:ASP:H	2.25	0.45
9:gG:227:ARG:NH1	9:gG:240:GLU:OE2	2.50	0.45
9:gG:392:THR:HG23	9:gG:402:GLU:HG2	1.99	0.45
10:gd:20:THR:HG21	10:gd:43:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hM:124:THR:HB	11:hX:78:ALA:HA	1.98	0.45
11:hh:48:LYS:HB2	11:hi:133:TRP:CZ2	2.52	0.45
11:hi:41:LEU:HD13	11:ht:142:LEU:HD22	1.99	0.45
11:hq:61:ALA:HA	11:hr:133:TRP:CH2	2.52	0.45
11:hs:83:GLN:HA	11:hs:86:VAL:HG22	1.99	0.45
11:hs:94:GLY:HA3	11:hs:100:THR:OG1	2.17	0.45
11:hs:97:ASN:HA	11:hz:3:VAL:HG12	1.98	0.45
11:hu:69:TRP:HB2	11:hu:159:LEU:HD23	1.97	0.45
12:iD:248:MET:HB2	12:iD:248:MET:HE3	1.76	0.45
14:k7:45:LEU:HD13	14:k7:170:LYS:HD3	1.98	0.45
14:k7:48:TYR:HB2	14:k7:171:ILE:HG12	1.98	0.45
15:m6:7:LEU:HD22	15:m6:124:LEU:HD11	1.98	0.45
16:o0:246:ILE:HD11	16:o0:262:LEU:HB2	1.99	0.45
16:o2:131:ARG:HD3	16:pA:329:PHE:CE1	2.52	0.45
17:q5:183:ASP:HB2	17:q5:186:THR:O	2.17	0.45
1:S1:511:GLU:CD	1:S1:513:ARG:HD3	2.42	0.45
1:S2:401:ARG:NH1	1:S2:438:GLN:OE1	2.37	0.45
1:S8:476:ASP:HB2	4:Wn:353:HIS:HD2	1.82	0.45
1:SA:73:THR:HG23	1:SA:74:LYS:HG3	1.99	0.45
1:SA:125:LEU:HD12	1:Sy:121:PHE:HE1	1.81	0.45
1:SO:6:TYR:CE1	4:WK:234:GLN:HB2	2.52	0.45
1:SP:210:ILE:HG13	1:SP:214:THR:OG1	2.16	0.45
1:SP:463:THR:HG21	1:SQ:490:ILE:HD12	1.99	0.45
1:SP:489:GLU:HA	1:SP:502:LEU:HD12	1.98	0.45
1:Sv:176:ILE:HG23	1:Sv:177:ALA:N	2.32	0.45
1:Sw:160:MET:HG3	1:Sw:164:LYS:NZ	2.32	0.45
1:Sw:160:MET:HA	1:Sw:164:LYS:HZ1	1.81	0.45
1:Sz:451:PHE:CZ	1:Sz:471:THR:HG22	2.47	0.45
2:T2:166:SER:O	2:T2:171:LYS:NZ	2.39	0.45
2:T4:282:GLN:NE2	2:T8:275:ALA:O	2.50	0.45
2:Td:224:ASP:OD2	2:Td:227:ASN:ND2	2.50	0.45
3:UL:13:ARG:HD2	3:UN:9:GLY:C	2.42	0.45
3:UN:15:ALA:HA	3:UN:18:LEU:HG	1.97	0.45
3:Up:116:ALA:HB2	3:Up:128:LYS:HG3	1.98	0.45
3:Uq:82:VAL:HG23	3:Uq:187:LYS:HE3	1.98	0.45
3:Uu:90:PHE:HD2	3:Uu:126:VAL:HG22	1.80	0.45
3:VL:82:VAL:HG23	3:VL:187:LYS:HE3	1.99	0.45
3:VM:36:GLY:HA2	3:VM:55:ALA:N	2.32	0.45
3:Vp:13:ARG:HA	3:Vp:18:LEU:HD21	1.99	0.45
3:Vs:149:HIS:HB3	3:Vs:152:ASP:O	2.16	0.45
4:WJ:501:LEU:HD13	4:WJ:512:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:211:ASP:OD1	4:WK:233:ARG:HB3	2.16	0.45
4:Wj:597:ARG:NH2	4:Wl:487:LEU:O	2.50	0.45
4:Wk:468:ASN:O	4:Wk:471:THR:OG1	2.32	0.45
4:Wl:116:THR:HG22	4:Wl:121:ALA:HB2	1.99	0.45
4:Wm:265:LEU:CB	4:Wm:281:TYR:HB3	2.45	0.45
4:Wo:32:GLU:O	4:Wo:36:GLU:HG2	2.17	0.45
4:XI:200:LEU:HD23	4:XI:210:SER:HA	1.99	0.45
4:XI:304:ILE:HG13	4:XI:386:PHE:H	1.82	0.45
4:XJ:36:GLU:HA	4:XJ:50:LYS:NZ	2.32	0.45
4:XK:326:MET:HE2	4:XK:327:PRO:HG3	1.98	0.45
4:XK:408:VAL:HG12	4:XK:409:SER:H	1.81	0.45
4:Xj:96:ARG:HG3	4:Xj:132:ASP:HA	1.98	0.45
4:Xk:170:GLU:O	4:Xk:171:VAL:HG12	2.17	0.45
4:Xk:288:MET:HG2	4:Xk:289:LYS:O	2.17	0.45
4:Xl:362:GLU:HB2	4:Xl:367:GLU:OE1	2.17	0.45
4:Xm:326:MET:HB2	4:Xo:279:SER:HB3	1.99	0.45
5:YC:362:LYS:NZ	5:YC:386:LEU:O	2.38	0.45
5:YY:644:ASP:O	14:k8:84:TYR:OH	2.34	0.45
5:YY:714:TYR:CE2	5:YY:723:VAL:HG21	2.52	0.45
5:Yc:345:TYR:O	5:Yc:346:SER:OG	2.27	0.45
5:Yy:176:ILE:H	5:Yy:176:ILE:HD13	1.81	0.45
5:Yy:348:ARG:H	5:Yy:348:ARG:HG2	1.40	0.45
5:Yy:378:LEU:HB3	5:Yy:403:ILE:HB	1.99	0.45
6:ZD:40:THR:HA	6:ZD:77:GLY:O	2.17	0.45
6:Za:270:ARG:CZ	6:Za:317:PRO:HB3	2.47	0.45
6:Zb:308:GLU:O	6:Zb:310:ILE:HG23	2.17	0.45
6:aE:39:ILE:HD11	6:aE:328:ILE:HG21	1.99	0.45
7:b0:12:GLU:HG3	7:cD:548:PHE:CZ	2.51	0.45
7:b0:269:PHE:CE2	7:b0:280:ALA:HB1	2.51	0.45
7:b3:478:CYS:O	7:b3:555:ARG:NH1	2.46	0.45
7:b4:362:PHE:O	7:b4:400:ARG:NE	2.49	0.45
7:b5:654:LEU:HD23	7:b5:654:LEU:HA	1.87	0.45
7:b7:391:LYS:HG2	7:b7:443:ILE:HD13	1.97	0.45
7:b9:468:VAL:HG12	7:b9:469:PRO:HD2	1.97	0.45
7:bN:202:GLU:OE1	7:bN:203:ALA:N	2.50	0.45
7:bP:90:LYS:NZ	7:bP:190:ASP:OD1	2.39	0.45
7:bP:135:ASP:O	7:bP:137:ASP:N	2.49	0.45
7:bP:152:ALA:O	7:bP:156:GLU:HG2	2.17	0.45
7:bP:430:ARG:HD3	7:bP:430:ARG:O	2.17	0.45
7:bR:269:PHE:CE2	7:bR:280:ALA:HB1	2.52	0.45
7:cB:32:LYS:HD3	7:cB:64:TYR:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cC:198:ILE:HG23	7:cC:324:PHE:HE2	1.82	0.45
7:cC:291:GLN:HE22	7:cC:320:SER:HB2	1.82	0.45
7:cC:394:VAL:HG11	7:cC:443:ILE:HD12	1.99	0.45
7:cE:159:GLU:CD	7:cE:164:GLY:H	2.25	0.45
7:cE:494:TYR:HE2	7:cE:528:THR:HG21	1.82	0.45
7:cF:135:ASP:OD1	7:cF:136:ALA:N	2.50	0.45
7:cF:575:LEU:HB3	7:cF:577:ASN:HD22	1.81	0.45
7:cG:152:ALA:O	7:cG:156:GLU:HG2	2.17	0.45
7:cG:209:ASP:OD1	7:cG:209:ASP:N	2.48	0.45
7:cH:157:VAL:HG23	7:cH:159:GLU:H	1.82	0.45
7:cH:453:ASN:HB2	7:cH:506:ALA:HB3	1.98	0.45
7:cJ:70:ASN:ND2	7:cJ:457:GLN:OE1	2.40	0.45
7:cL:139:LYS:HZ3	7:cL:139:LYS:HB3	1.82	0.45
7:cL:157:VAL:HG23	7:cL:159:GLU:H	1.82	0.45
7:cM:454:TYR:HB3	7:cM:467:TRP:HD1	1.82	0.45
7:cO:120:TYR:HE1	7:cO:166:ASN:HD22	1.64	0.45
7:cP:614:THR:C	7:cP:616:SER:H	2.24	0.45
7:dZ:464:VAL:HG12	16:o2:18:LYS:HD2	1.99	0.45
8:eB:178:ILE:HD12	8:eB:266:SER:O	2.17	0.45
8:eU:197:VAL:HG11	8:eU:236:PHE:CE2	2.52	0.45
8:f9:430:GLN:H	8:f9:430:GLN:HG2	1.61	0.45
8:fA:582:ASN:ND2	8:fA:586:ARG:HG2	2.32	0.45
8:fS:220:THR:HG22	8:fS:222:THR:H	1.82	0.45
8:fU:332:LYS:HD3	8:fU:335:THR:HG21	1.98	0.45
8:fW:242:GLU:O	8:fW:255:ASN:HB2	2.17	0.45
8:fr:192:ILE:H	8:fr:192:ILE:HG12	1.57	0.45
8:fs:215:VAL:HG23	8:fs:245:VAL:HG13	1.98	0.45
8:fs:397:LYS:HZ2	8:fs:406:PRO:HD2	1.82	0.45
8:fs:523:VAL:O	8:fs:531:GLU:HB3	2.17	0.45
9:gE:76:PRO:HB3	9:gE:80:THR:HG21	1.99	0.45
11:h1:23:VAL:HG22	11:h1:36:CYS:SG	2.57	0.45
11:hI:142:LEU:HD22	11:hX:41:LEU:HD13	1.99	0.45
11:hK:1:MET:HE3	11:hK:1:MET:HB2	1.89	0.45
11:hF:82:ARG:NH1	11:hF:138:GLY:HA2	2.32	0.45
11:hp:136:ASN:ND2	11:hp:136:ASN:O	2.50	0.45
11:hs:124:THR:HB	11:hv:78:ALA:HA	1.99	0.45
11:hX:115:GLN:HG3	11:hy:79:HIS:CE1	2.52	0.45
11:hz:115:GLN:HE21	11:hz:115:GLN:HB3	1.65	0.45
14:k4:110:VAL:HG11	14:k4:158:ALA:HB2	1.99	0.45
14:kV:7:ASP:HB3	16:o6:81:ARG:HH22	1.82	0.45
16:o1:7:ILE:H	16:o1:7:ILE:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q5:15:ASP:OD1	17:q5:18:ARG:NH2	2.49	0.45
17:q8:229:SER:OG	17:q8:230:TYR:O	2.34	0.45
17:q9:30:PRO:HG3	17:q9:177:TRP:CZ2	2.52	0.45
1:S0:153:GLY:O	1:S7:163:LEU:HB2	2.17	0.45
1:S0:173:ILE:HD12	1:S0:176:ILE:HG23	1.99	0.45
1:S0:240:ASN:HB3	1:S0:243:VAL:HG22	1.98	0.45
1:S1:2:SER:N	4:XI:239:GLY:O	2.49	0.45
1:S1:405:ARG:NH1	1:S1:410:THR:HG22	2.31	0.45
1:S3:286:ASP:N	1:S3:286:ASP:OD1	2.50	0.45
1:S5:256:THR:HG21	4:Xj:344:VAL:HG21	1.98	0.45
1:S5:451:PHE:CZ	1:S5:471:THR:HG22	2.47	0.45
1:S6:85:LEU:HA	1:S6:85:LEU:HD12	1.72	0.45
1:S6:240:ASN:HB3	1:S6:243:VAL:HG22	1.98	0.45
1:S7:63:GLU:HA	1:S7:66:VAL:HG22	1.99	0.45
1:S7:264:LYS:NZ	1:S7:276:ASP:OD2	2.34	0.45
1:SO:305:THR:HA	1:SP:311:GLY:HA3	1.99	0.45
1:SP:295:ILE:HG13	1:SQ:301:ARG:HB3	1.98	0.45
1:SP:446:LYS:HZ3	1:SP:460:PHE:HD1	1.65	0.45
1:Sx:99:ARG:HG2	1:Sx:100:TYR:H	1.82	0.45
2:T3:67:TYR:CD2	2:T3:84:ARG:HB3	2.52	0.45
2:T4:38:ILE:HG21	2:T6:38:ILE:HD13	1.99	0.45
2:T4:194:ARG:HE	2:T4:259:ASN:HA	1.82	0.45
2:T6:92:VAL:HG12	5:Yx:55:ARG:HH22	1.82	0.45
2:TG:174:PRO:HB2	2:TG:192:PHE:HB3	1.99	0.45
2:Te:78:PRO:HA	2:Te:97:ILE:O	2.16	0.45
2:Te:231:ILE:HG22	2:Ti:238:MET:SD	2.57	0.45
2:Tg:98:ILE:HD13	2:Tg:107:VAL:HG21	1.98	0.45
2:Ti:85:HIS:HB2	2:Ti:109:PHE:CD1	2.52	0.45
3:UN:81:GLY:HA2	3:UN:187:LYS:HZ2	1.82	0.45
3:Uu:90:PHE:CE1	3:Uu:178:ILE:HG23	2.52	0.45
3:VN:193:TRP:CZ3	3:VN:217:ARG:HB2	2.52	0.45
4:WJ:89:TYR:HA	4:WJ:137:TYR:HB3	1.99	0.45
4:WJ:170:GLU:O	4:WJ:171:VAL:HG12	2.17	0.45
4:WJ:441:ARG:NH1	4:WJ:452:THR:HA	2.32	0.45
4:WJ:456:ILE:HG12	4:WJ:602:ALA:HA	1.99	0.45
4:Wj:213:GLY:O	4:Wj:221:GLU:HB2	2.16	0.45
4:Wn:132:ASP:OD1	4:Wn:132:ASP:N	2.48	0.45
4:Wo:20:ARG:HH12	4:Wo:24:ILE:HD12	1.81	0.45
4:Wo:89:TYR:HA	4:Wo:137:TYR:HB3	1.99	0.45
4:Wo:180:VAL:HG13	4:Wo:181:PHE:N	2.32	0.45
4:XI:590:GLN:HG2	4:XK:590:GLN:NE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xj:416:ILE:HG22	4:Xj:419:ASP:HB2	1.98	0.45
4:Xk:6:ASN:ND2	4:Xk:17:ASP:OD1	2.43	0.45
4:Xl:214:SER:OG	4:Xl:222:LEU:O	2.35	0.45
4:Xm:195:HIS:CE1	4:Xm:232:LEU:HD21	2.52	0.45
5:YX:423:GLU:N	5:YX:423:GLU:OE1	2.50	0.45
5:YX:444:SER:HB2	5:YX:512:PRO:HG3	1.99	0.45
5:YX:586:LEU:HD21	5:YX:594:ILE:HG12	1.99	0.45
5:YY:600:PHE:O	5:YY:602:TYR:N	2.50	0.45
5:YY:980:GLY:C	5:YY:983:PRO:HD2	2.42	0.45
5:YY:1025:PRO:O	5:YY:1026:THR:HG22	2.17	0.45
5:Yc:92:SER:OG	5:Yc:93:ASP:N	2.49	0.45
5:Yc:170:GLU:HG2	5:Yc:171:ASN:O	2.16	0.45
5:Yx:867:LYS:HA	5:Yx:893:ILE:O	2.17	0.45
5:Yy:18:ALA:HB3	5:Yy:106:ASN:OD1	2.17	0.45
5:Yy:19:ASN:HA	5:Yy:71:ASP:O	2.17	0.45
5:Yy:237:VAL:O	5:Yy:238:TYR:HB3	2.17	0.45
5:Yy:777:LEU:HD23	5:Yy:809:TRP:CG	2.51	0.45
6:Zc:308:GLU:O	6:Zc:310:ILE:HG23	2.17	0.45
6:aD:44:SER:O	6:aD:270:ARG:NH1	2.50	0.45
6:aD:274:ILE:HD11	6:aD:330:ILE:HD12	1.97	0.45
6:aE:102:ASP:HB3	6:aE:105:THR:HB	1.98	0.45
7:b0:152:ALA:O	7:b0:156:GLU:HG2	2.17	0.45
7:b0:624:VAL:HG12	7:b5:639:THR:HB	1.97	0.45
7:b8:94:PRO:HD3	7:b8:222:VAL:O	2.17	0.45
7:b8:237:GLU:OE1	7:b8:284:ARG:NH1	2.30	0.45
7:bN:239:VAL:HG22	7:bN:280:ALA:HB3	1.99	0.45
7:bO:94:PRO:HD3	7:bO:222:VAL:O	2.17	0.45
7:bP:621:ASN:OD1	7:bP:621:ASN:N	2.49	0.45
7:bQ:455:LYS:HG3	7:bQ:456:TYR:N	2.30	0.45
7:bQ:623:PHE:HB3	7:cO:638:ILE:HG12	1.97	0.45
7:bR:33:PHE:HA	7:bR:61:THR:HG23	1.98	0.45
7:bR:116:ILE:H	7:bR:116:ILE:HG12	1.56	0.45
7:bR:239:VAL:HG21	7:bR:265:ALA:HB2	1.98	0.45
7:bY:107:GLY:O	7:bY:139:LYS:HG2	2.17	0.45
7:bY:311:ILE:HB	7:bY:327:ALA:HB2	1.99	0.45
7:cA:104:SER:OG	7:cA:183:THR:OG1	2.35	0.45
7:cA:312:ASP:OD1	7:cA:312:ASP:N	2.49	0.45
7:cA:423:VAL:HG13	7:cA:517:LEU:HD13	1.98	0.45
7:cB:110:TYR:H	7:cB:138:GLY:HA3	1.82	0.45
7:cB:592:LEU:HD23	7:cB:604:TYR:HB2	1.98	0.45
7:cC:494:TYR:CZ	7:cL:569:LYS:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cD:410:PRO:O	7:cD:413:THR:HG22	2.17	0.45
7:cE:135:ASP:OD1	7:cE:136:ALA:N	2.50	0.45
7:cE:410:PRO:O	7:cE:413:THR:HG22	2.17	0.45
7:cF:351:THR:HG23	7:cF:354:ASP:H	1.81	0.45
7:cF:355:LEU:HD23	7:cF:355:LEU:HA	1.83	0.45
7:cF:654:LEU:HD23	7:cF:654:LEU:HA	1.80	0.45
7:cI:107:GLY:HA3	7:cI:110:TYR:CE2	2.52	0.45
7:cJ:110:TYR:CE1	7:cJ:177:GLY:HA3	2.52	0.45
7:cL:118:VAL:HB	7:cL:126:GLU:HB3	1.98	0.45
7:cM:441:PHE:CZ	7:cM:443:ILE:HD11	2.52	0.45
7:dS:57:PRO:O	7:dS:462:ASN:ND2	2.41	0.45
7:dT:43:GLN:HG2	7:dT:45:THR:HG22	1.98	0.45
7:dU:66:MET:HG2	7:dU:468:VAL:HG11	1.99	0.45
8:eB:492:TYR:CE1	8:eB:606:ILE:HB	2.51	0.45
8:eU:501:TYR:O	8:eU:503:ASN:ND2	2.49	0.45
8:eW:340:VAL:O	8:eW:341:THR:OG1	2.28	0.45
8:eW:472:ASP:OD1	8:eW:473:HIS:N	2.50	0.45
8:fA:197:VAL:HG23	8:fA:272:TYR:HB3	1.99	0.45
8:fA:206:TRP:CE2	8:fA:222:THR:HB	2.52	0.45
8:fB:516:SER:HA	8:fB:537:ASP:HA	1.97	0.45
8:fR:412:ASN:OD1	8:fR:486:ARG:NH1	2.50	0.45
8:fS:247:ALA:HB3	8:fW:351:GLU:HG2	1.99	0.45
8:fS:443:LYS:HA	8:fS:443:LYS:HD2	1.76	0.45
8:fS:536:TYR:HB2	8:fS:586:ARG:NH2	2.32	0.45
8:fU:40:GLN:HG2	8:fU:42:GLU:H	1.82	0.45
8:fU:46:TYR:HB3	8:fU:53:LEU:HD23	1.99	0.45
8:fU:592:ILE:HD13	8:fU:606:ILE:HG12	1.99	0.45
8:fU:636:ASP:N	8:fU:636:ASP:OD1	2.50	0.45
8:fr:358:GLN:NE2	8:fr:453:GLU:OE2	2.50	0.45
9:gG:227:ARG:HE	9:gG:227:ARG:HB2	1.61	0.45
11:h2:83:GLN:HA	11:h2:86:VAL:HG22	1.99	0.45
11:hI:83:GLN:HA	11:hI:86:VAL:HG22	1.99	0.45
11:hL:49:ILE:HD11	17:q3:18:ARG:NH1	2.32	0.45
11:hg:67:ASP:OD1	11:hg:67:ASP:N	2.50	0.45
11:hh:62:GLY:O	11:hm:118:ARG:NH2	2.50	0.45
11:hj:53:PHE:CD1	11:ho:6:VAL:HG13	2.52	0.45
11:hj:83:GLN:HA	11:hj:86:VAL:HG22	1.99	0.45
11:hl:39:THR:HG22	11:hl:71:VAL:HG22	1.99	0.45
11:hl:131:GLY:O	11:hl:159:LEU:HA	2.17	0.45
11:hm:83:GLN:HA	11:hm:86:VAL:HG22	1.98	0.45
11:ho:80:ASP:O	11:ho:84:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hx:136:ASN:O	11:hx:136:ASN:ND2	2.49	0.45
12:iD:197:MET:HE2	12:iD:197:MET:HB3	1.87	0.45
15:m5:57:LEU:HD11	15:m5:73:VAL:HG13	1.99	0.45
15:mT:121:GLN:HB2	15:mT:124:LEU:HB2	1.98	0.45
16:o0:40:THR:HG21	16:o0:217:GLU:HB3	1.99	0.45
16:o1:58:TYR:HE1	17:q5:144:ASN:H	1.64	0.45
16:o2:329:PHE:CE2	16:pB:131:ARG:HD3	2.52	0.45
17:q8:200:GLN:HB2	17:q8:215:MET:HE2	1.99	0.45
1:S1:142:ILE:HG23	1:S1:158:THR:HA	1.99	0.44
1:S7:89:ASN:OD1	1:S7:90:ALA:N	2.50	0.44
1:S8:349:TRP:N	1:S8:520:ASN:O	2.43	0.44
1:SO:77:THR:OG1	1:SO:78:PRO:HD2	2.17	0.44
1:Sw:417:ASN:HA	1:Sw:423:PRO:HA	2.00	0.44
1:Sx:20:PRO:HB3	1:Sx:29:ILE:HG21	1.99	0.44
1:Sx:157:THR:OG1	1:Sx:158:THR:N	2.49	0.44
1:Sy:111:ASN:O	1:Sy:114:SER:OG	2.27	0.44
1:Sy:246:THR:H	1:Sy:249:THR:HG1	1.65	0.44
1:Sy:466:SER:HB3	1:Sy:468:PHE:CE2	2.52	0.44
1:Sz:296:ILE:HG22	1:Sz:298:GLY:H	1.81	0.44
2:TH:46:ARG:HH12	2:TH:69:LYS:HD2	1.82	0.44
2:Tg:18:ALA:HB3	2:Tg:23:ILE:HG23	1.99	0.44
3:UN:149:HIS:HB3	3:UN:152:ASP:O	2.17	0.44
3:Up:16:ASP:OD2	3:Up:45:LYS:NZ	2.45	0.44
3:Up:74:LYS:HG3	3:Ut:70:ILE:HD11	1.99	0.44
3:Up:195:LEU:HD13	3:Up:215:PHE:CE1	2.52	0.44
3:Us:87:TYR:CE1	3:Us:157:GLU:HB2	2.51	0.44
3:VL:105:ILE:HA	4:Xl:272:SER:HB3	1.99	0.44
3:Vp:4:LEU:HD21	4:Xl:357:SER:OG	2.17	0.44
3:Vq:88:TRP:O	3:Vq:155:LYS:HA	2.17	0.44
3:Vs:106:THR:HG21	4:Xm:269:LYS:HG3	1.99	0.44
3:Vs:107:VAL:HG22	3:Vs:174:TYR:HD2	1.82	0.44
3:Vu:90:PHE:HD2	3:Vu:126:VAL:HG22	1.82	0.44
4:WI:214:SER:HB2	4:WI:215:PRO:HD2	1.99	0.44
4:WI:323:THR:HB	4:WI:355:ASP:HB3	1.98	0.44
4:WJ:468:ASN:O	4:WJ:471:THR:OG1	2.31	0.44
4:Wk:102:TRP:CE3	4:Wk:131:SER:HB2	2.52	0.44
4:Wk:543:ILE:HA	4:Wm:541:VAL:HG12	1.98	0.44
4:Wl:117:ILE:HG22	4:Wl:143:TRP:HB2	1.99	0.44
4:Wl:255:ARG:HH21	4:Wn:249:ASP:HB2	1.82	0.44
4:Wl:263:ILE:HG22	4:Wl:381:ILE:HB	1.99	0.44
4:Wm:217:GLU:HB2	4:Wm:222:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:503:ASN:OD1	4:Wm:503:ASN:N	2.50	0.44
4:XI:156:SER:HB3	4:XJ:154:ILE:HG12	1.99	0.44
4:XI:164:ARG:HH11	4:XK:192:ARG:NH1	2.15	0.44
4:XJ:486:VAL:HG12	4:XK:488:VAL:HG22	1.99	0.44
4:XK:61:THR:O	4:XK:61:THR:OG1	2.33	0.44
4:Xk:102:TRP:CE3	4:Xk:131:SER:HB2	2.53	0.44
4:Xk:117:ILE:HA	4:Xk:143:TRP:HB2	1.98	0.44
4:Xk:158:ASP:OD1	4:Xk:158:ASP:N	2.49	0.44
4:XI:188:VAL:HG11	4:Xn:129:ARG:HE	1.82	0.44
4:Xn:109:LEU:HB3	4:Xn:124:VAL:HG23	1.99	0.44
5:YC:170:GLU:O	5:YC:538:ASP:HA	2.18	0.44
5:YX:61:TYR:CE2	6:ZZ:156:LEU:HD11	2.52	0.44
5:YX:403:ILE:CG2	5:YX:417:PHE:HB3	2.45	0.44
5:YY:103:PHE:N	5:YY:103:PHE:CD1	2.83	0.44
5:YY:479:TRP:CD2	5:YY:505:PRO:HA	2.51	0.44
5:Yc:73:ASP:O	5:Yc:76:THR:HG22	2.18	0.44
5:Yc:450:PHE:CD2	5:Yc:453:ASP:HB2	2.52	0.44
5:Yx:919:TYR:OH	5:Yx:1005:ARG:HB2	2.18	0.44
5:Yy:342:SER:HB2	5:Yy:345:TYR:HB3	1.99	0.44
5:Yy:906:LEU:HD13	6:aa:334:PHE:HD1	1.82	0.44
5:Yy:946:SER:C	5:Yy:948:THR:H	2.25	0.44
6:ZD:195:PRO:O	6:ZD:199:SER:OG	2.30	0.44
6:ZZ:21:MET:HG3	6:ZZ:247:ILE:HG12	1.99	0.44
6:Zc:136:VAL:HB	6:Zc:162:PRO:HG3	1.99	0.44
6:aD:92:ARG:HB3	6:aD:208:ILE:HG23	1.99	0.44
7:b3:91:ASN:OD1	7:b3:91:ASN:N	2.50	0.44
7:b4:152:ALA:O	7:b4:156:GLU:HG2	2.16	0.44
7:b4:230:LEU:HD21	7:b4:285:ARG:HD2	1.99	0.44
7:b4:441:PHE:CZ	7:b4:443:ILE:HD11	2.52	0.44
7:b7:34:GLN:NE2	7:b7:230:LEU:HD12	2.32	0.44
7:b7:345:SER:O	7:b7:346:SER:HB3	2.16	0.44
7:b7:423:VAL:HG21	7:b7:513:GLN:HB3	1.99	0.44
7:b9:373:PHE:HB2	7:b9:405:VAL:HG22	1.99	0.44
7:b9:637:TYR:O	7:cD:622:GLU:HA	2.17	0.44
7:bN:441:PHE:CZ	7:bN:443:ILE:HD11	2.52	0.44
7:bO:274:GLN:N	7:bO:278:GLN:OE1	2.35	0.44
7:bP:120:TYR:CE2	7:bP:157:VAL:HG11	2.51	0.44
7:bP:365:ARG:HA	7:bP:400:ARG:NH2	2.32	0.44
7:bQ:317:LYS:O	7:bQ:317:LYS:HG2	2.16	0.44
7:bR:112:VAL:HG13	7:bR:132:THR:HA	1.98	0.44
7:bY:30:ALA:HB3	7:bY:359:TRP:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bY:69:MET:O	7:bY:73:GLN:HG2	2.17	0.44
7:cB:441:PHE:CE2	7:cB:443:ILE:HD11	2.52	0.44
7:cC:372:LEU:HD21	7:cC:478:CYS:HB2	1.99	0.44
7:cC:514:ARG:NH1	7:cL:366:GLU:OE2	2.50	0.44
7:cD:35:TRP:O	7:cD:54:PHE:HA	2.17	0.44
7:cD:510:ARG:HG2	7:cD:511:GLN:H	1.82	0.44
7:cF:36:GLY:O	7:cF:82:ARG:NH1	2.48	0.44
7:cF:104:SER:HB2	7:cF:181:VAL:HB	1.99	0.44
7:cH:69:MET:O	7:cH:73:GLN:HG2	2.17	0.44
7:cI:494:TYR:CZ	7:cN:569:LYS:HD2	2.52	0.44
7:cL:494:TYR:HE2	7:cL:528:THR:HG21	1.82	0.44
7:cM:72:LEU:HD12	7:cM:72:LEU:HA	1.79	0.44
7:cN:411:ARG:O	7:cN:415:VAL:HB	2.17	0.44
7:cP:617:VAL:O	7:cP:622:GLU:HB2	2.17	0.44
7:dT:107:GLY:HA3	7:dT:110:TYR:HE2	1.82	0.44
8:f9:288:TYR:HB3	8:f9:297:VAL:HG21	1.98	0.44
8:f9:507:ASP:OD1	8:f9:545:ARG:N	2.33	0.44
8:fA:264:GLN:HB3	8:fW:35:GLU:HG3	1.98	0.44
8:fB:507:ASP:OD1	8:fB:507:ASP:N	2.50	0.44
8:fU:37:LEU:HD23	8:fU:37:LEU:HA	1.83	0.44
8:fU:544:ASP:OD1	8:fU:545:ARG:N	2.50	0.44
8:fW:219:SER:HB2	8:fW:254:ALA:HB1	1.99	0.44
8:fr:430:GLN:OE1	8:fr:430:GLN:N	2.41	0.44
9:gE:85:HIS:CD2	9:gE:97:LEU:HD11	2.52	0.44
9:gE:514:VAL:HG12	9:gE:516:GLY:H	1.82	0.44
9:gG:41:GLN:HG3	12:iD:122:ARG:HB2	1.99	0.44
9:gG:330:ILE:HD12	9:gG:336:LEU:HA	1.99	0.44
9:gH:402:GLU:CD	9:gH:411:ARG:HH22	2.24	0.44
11:hI:135:THR:O	11:hX:45:ILE:HA	2.18	0.44
11:hf:24:GLU:HB3	11:hf:112:ILE:HG23	1.99	0.44
11:hn:45:ILE:HA	11:hu:135:THR:O	2.17	0.44
11:ho:85:PHE:HB3	11:ho:137:VAL:HG21	1.99	0.44
11:hs:21:PHE:CG	11:hv:142:LEU:HD23	2.52	0.44
11:hv:58:ILE:HD13	11:hv:58:ILE:H	1.82	0.44
11:hw:45:ILE:HG23	11:hw:65:THR:O	2.17	0.44
11:hz:83:GLN:HA	11:hz:86:VAL:HG22	1.97	0.44
12:iD:38:LEU:HD13	12:iD:52:LEU:HG	1.99	0.44
14:k4:31:ASN:C	14:k4:33:LYS:H	2.25	0.44
14:kV:88:THR:O	14:kV:163:ASN:ND2	2.49	0.44
15:m1:10:ASP:OD1	15:m1:11:ILE:N	2.48	0.44
16:o0:31:THR:HG23	16:o0:255:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q4:218:MET:HE3	17:q4:243:PHE:CG	2.52	0.44
18:re:11:UNK:O	18:re:13:UNK:N	2.50	0.44
1:S0:308:ILE:HD12	1:S5:315:ILE:HG23	1.99	0.44
1:S0:471:THR:HG21	1:S7:471:THR:HG21	1.99	0.44
1:S0:471:THR:HA	1:S7:474:GLY:O	2.16	0.44
1:S1:146:SER:O	1:S1:164:LYS:HD2	2.17	0.44
1:S1:473:LYS:NZ	4:Xn:362:GLU:HA	2.32	0.44
1:S2:412:PRO:HA	1:S2:415:ASN:HB2	1.99	0.44
1:S2:491:ASP:OD1	1:S2:491:ASP:N	2.50	0.44
1:S4:77:THR:OG1	1:S4:78:PRO:HD2	2.17	0.44
1:S4:106:ALA:HA	1:S8:118:PRO:HB3	1.98	0.44
1:S6:412:PRO:HA	1:S6:415:ASN:HB2	1.98	0.44
1:SO:20:PRO:HB3	1:SO:29:ILE:HG13	1.98	0.44
1:SP:84:ARG:NH1	1:SP:88:PRO:HB3	2.32	0.44
1:SP:315:ILE:O	1:SQ:321:MET:HA	2.17	0.44
1:Sv:140:GLY:HA2	1:Sz:129:PHE:HE1	1.81	0.44
1:Sx:503:ASN:HB3	1:Sx:507:LEU:HD23	2.00	0.44
1:Sy:147:LEU:HB2	1:Sy:148:PRO:HD3	1.99	0.44
2:T2:61:ILE:HG13	2:T3:38:ILE:HG12	1.99	0.44
2:T3:201:LYS:NZ	2:T3:220:ASN:OD1	2.38	0.44
2:T4:181:ILE:HD12	2:T4:272:MET:HB2	2.00	0.44
2:T5:84:ARG:HG2	2:T5:108:GLU:HB2	1.99	0.44
2:T7:257:LYS:HD2	2:T7:262:THR:HG21	1.99	0.44
2:TF:219:ILE:HG21	2:TF:254:PHE:CE1	2.52	0.44
2:Ti:98:ILE:O	2:Ti:127:ILE:HG12	2.17	0.44
2:Ti:161:ASN:OD1	2:Ti:162:TYR:N	2.49	0.44
3:Up:109:VAL:HA	3:Up:178:ILE:HD13	1.99	0.44
3:Ur:79:PRO:HD2	3:Ur:193:TRP:HB2	2.00	0.44
3:Ur:148:ASP:OD1	3:Ur:148:ASP:N	2.50	0.44
3:Us:142:ALA:H	3:Us:161:LEU:HD12	1.83	0.44
3:Uu:36:GLY:HA2	3:Uu:55:ALA:N	2.33	0.44
3:VL:4:LEU:HD13	4:XJ:356:TYR:CE2	2.52	0.44
3:VN:80:GLU:O	3:VN:187:LYS:NZ	2.45	0.44
3:Vp:56:ILE:HD11	3:Vt:52:ILE:HG23	1.99	0.44
3:Vq:107:VAL:HG22	3:Vq:174:TYR:HD2	1.83	0.44
4:WI:176:ASP:OD1	4:WI:176:ASP:N	2.49	0.44
4:WI:313:PHE:CD2	4:WI:320:LEU:HD21	2.52	0.44
4:WJ:103:ASN:CG	4:WJ:104:VAL:H	2.25	0.44
4:WK:49:TRP:CG	4:WK:67:SER:HG	2.35	0.44
4:Wj:180:VAL:HG13	4:Wj:181:PHE:N	2.32	0.44
4:Wj:552:VAL:HG11	4:Wn:569:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wk:321:ALA:O	4:Wk:324:VAL:HG12	2.18	0.44
4:Wk:591:PRO:HA	4:Wm:520:GLY:O	2.17	0.44
4:Wl:257:SER:O	4:Wl:258:TYR:HB3	2.17	0.44
4:Wl:309:LEU:HD22	4:Wl:321:ALA:HB2	1.98	0.44
4:Wm:360:THR:HG22	4:Wm:366:PRO:HG3	1.98	0.44
4:Wo:148:ASN:OD1	4:Wo:149:LYS:N	2.50	0.44
4:Wo:304:ILE:HG22	4:Wo:385:TRP:CD1	2.52	0.44
4:XJ:458:THR:O	4:XJ:599:ILE:HA	2.17	0.44
4:Xm:149:LYS:H	4:Xm:149:LYS:HG3	1.47	0.44
4:Xn:214:SER:HB2	4:Xn:215:PRO:HD2	1.99	0.44
4:Xn:338:ASP:HB3	4:Xn:349:TRP:HD1	1.83	0.44
4:Xo:79:ILE:CG1	4:Xo:109:LEU:HA	2.47	0.44
5:YC:104:ALA:C	5:YC:105:THR:HG1	2.24	0.44
5:YC:227:ASP:CG	5:YC:228:ARG:HG2	2.42	0.44
5:YC:490:PHE:CE1	5:YC:503:PRO:HG3	2.53	0.44
5:YC:548:ILE:O	5:YC:555:ARG:NE	2.50	0.44
5:YY:237:VAL:O	5:YY:238:TYR:HB3	2.18	0.44
5:Yc:382:GLU:HB2	5:Yc:398:SER:HB3	1.98	0.44
5:Yx:326:VAL:HG11	5:Yx:413:TRP:HZ2	1.82	0.44
5:Yy:146:LEU:HD13	5:Yy:578:PHE:CE1	2.52	0.44
6:ZE:44:SER:O	6:ZE:270:ARG:NH1	2.50	0.44
6:ZE:179:THR:OG1	6:ZE:186:TYR:O	2.35	0.44
6:ZE:245:ASN:ND2	6:ZE:334:PHE:O	2.50	0.44
7:b0:57:PRO:HG3	7:b0:65:PHE:CD1	2.51	0.44
7:b0:467:TRP:CZ3	7:cI:199:GLU:HB2	2.53	0.44
7:b6:269:PHE:CE2	7:b6:280:ALA:HB1	2.52	0.44
7:b7:157:VAL:HG23	7:b7:159:GLU:H	1.82	0.44
7:b7:467:TRP:HZ3	7:cB:199:GLU:HB2	1.81	0.44
7:b7:514:ARG:NH1	7:cB:366:GLU:OE2	2.50	0.44
7:bO:22:ASN:HD21	17:q9:254:ASP:HA	1.82	0.44
7:bO:199:GLU:HB2	7:cM:467:TRP:HZ3	1.82	0.44
7:bO:455:LYS:HG3	7:bO:456:TYR:N	2.32	0.44
7:bO:561:LYS:NZ	7:cN:12:GLU:OE2	2.43	0.44
7:bP:99:ILE:HD12	7:bP:150:ILE:HD13	1.98	0.44
7:bQ:199:GLU:HB2	7:cO:467:TRP:CZ3	2.53	0.44
7:bY:480:ARG:O	7:bY:484:VAL:HG12	2.17	0.44
7:cD:2:THR:OG1	7:cD:3:LEU:N	2.49	0.44
7:cD:379:ALA:HB2	7:cD:454:TYR:HE2	1.82	0.44
7:cE:332:GLU:OE1	7:cE:332:GLU:N	2.29	0.44
7:cM:205:MET:HG3	7:cM:324:PHE:HE1	1.82	0.44
7:cN:154:ALA:HA	7:cN:157:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:490:SER:O	7:cO:496:ARG:NH1	2.51	0.44
7:cP:40:GLN:H	7:cP:81:VAL:HG23	1.81	0.44
7:cP:108:SER:O	7:cP:177:GLY:HA2	2.17	0.44
7:cP:215:LYS:HB2	7:cP:329:ASN:OD1	2.17	0.44
7:dT:148:ALA:O	7:dT:151:ILE:HG13	2.17	0.44
7:dW:41:ILE:HD11	7:dW:361:PHE:HB3	1.99	0.44
8:eU:104:SER:HA	8:eU:193:ASP:CG	2.42	0.44
8:eU:113:THR:O	8:eU:113:THR:OG1	2.33	0.44
8:eU:582:ASN:CG	8:eU:586:ARG:HH11	2.24	0.44
8:eW:199:LEU:HD23	8:eW:224:TYR:CG	2.53	0.44
8:fA:327:GLU:O	8:fA:331:ILE:HG12	2.17	0.44
8:fR:539:ARG:HG3	8:fR:541:VAL:HG23	2.00	0.44
8:fU:281:ASN:ND2	8:fU:315:GLY:H	2.12	0.44
8:fU:346:ASP:OD1	8:fU:347:THR:N	2.51	0.44
8:fU:592:ILE:HG22	8:fU:604:TRP:HB2	1.99	0.44
8:fW:521:ARG:O	8:fW:522:LYS:HD2	2.17	0.44
9:gG:127:ASN:HB3	9:gG:134:GLN:NE2	2.33	0.44
11:he:53:PHE:CD1	11:hj:6:VAL:HG13	2.51	0.44
11:hp:133:TRP:CZ3	11:hp:135:THR:HG22	2.52	0.44
12:iF:345:GLU:HB2	12:iF:352:VAL:HG12	2.00	0.44
16:o6:34:TYR:OH	16:o6:242:TYR:O	2.29	0.44
16:pA:231:TYR:CD2	16:pA:250:LEU:HD21	2.52	0.44
16:pB:29:VAL:HG13	16:pB:262:LEU:HD11	2.00	0.44
17:q3:20:ASN:ND2	17:q7:233:ASP:HA	2.31	0.44
17:q3:179:ASN:HB3	17:q3:184:PRO:HD3	1.99	0.44
17:q3:221:ILE:HD11	17:q5:150:ILE:HG13	1.99	0.44
17:q9:153:ARG:HG2	17:q9:154:GLU:N	2.32	0.44
1:S0:325:TYR:HB2	1:S7:320:ARG:HG2	1.98	0.44
1:S1:263:VAL:HG11	1:S3:265:LEU:HD21	1.98	0.44
1:S2:197:ALA:O	1:S2:201:GLN:HG3	2.16	0.44
1:S2:250:LEU:HD23	1:S3:253:ARG:HH11	1.82	0.44
1:S2:474:GLY:O	1:S3:471:THR:HA	2.17	0.44
1:S4:117:THR:HG22	1:S4:120:LYS:NZ	2.32	0.44
1:S4:375:TYR:OH	1:S4:391:GLY:O	2.23	0.44
1:S6:27:PRO:HA	1:S6:29:ILE:HD11	1.99	0.44
1:S6:194:ALA:HB2	1:S6:208:TYR:HB3	1.99	0.44
1:S6:375:TYR:CZ	1:S6:392:LEU:HD23	2.52	0.44
1:SP:503:ASN:HB3	1:SP:507:LEU:HD23	1.98	0.44
1:SQ:296:ILE:HG22	1:SQ:298:GLY:H	1.80	0.44
1:Sw:46:GLY:HA2	1:Sy:42:ALA:HB2	1.99	0.44
1:Sw:110:VAL:HG12	1:Sw:111:ASN:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sx:85:LEU:HD22	1:Sz:84:ARG:HD2	2.00	0.44
2:T1:139:VAL:HG13	2:T1:164:ILE:HD12	1.99	0.44
2:T1:267:SER:OG	2:T1:272:MET:HG3	2.18	0.44
2:T2:181:ILE:HD12	2:T2:272:MET:HB2	1.99	0.44
2:T5:202:LEU:HB3	2:T5:278:VAL:HG22	1.98	0.44
2:T6:212:ARG:HG3	2:T6:213:LYS:HG3	2.00	0.44
2:T6:232:SER:HB3	2:T6:254:PHE:HD2	1.82	0.44
2:Td:131:LYS:HD3	2:Td:161:ASN:ND2	2.32	0.44
2:Tf:240:VAL:HG22	2:Th:231:ILE:HD13	1.99	0.44
2:Th:199:MET:HG2	2:Th:282:GLN:HB3	1.99	0.44
3:UN:172:SER:HA	3:UN:177:THR:HA	2.00	0.44
3:Ur:193:TRP:CZ3	3:Ur:217:ARG:HB2	2.53	0.44
3:VL:149:HIS:HB3	3:VL:152:ASP:O	2.18	0.44
3:Vs:126:VAL:HG21	3:Vs:154:SER:HA	2.00	0.44
4:WI:588:ASN:OD1	4:WJ:588:ASN:ND2	2.46	0.44
4:WJ:313:PHE:HD2	4:WJ:320:LEU:HD21	1.83	0.44
4:Wj:190:ASN:ND2	4:Wj:247:PHE:O	2.32	0.44
4:Wk:170:GLU:O	4:Wk:171:VAL:HG12	2.17	0.44
4:Wk:313:PHE:HD2	4:Wk:320:LEU:HD21	1.83	0.44
4:Wk:422:LEU:HD21	4:Wo:464:VAL:HG21	1.99	0.44
4:Wl:285:LEU:HD11	4:Wl:375:PHE:H	1.81	0.44
4:Wm:501:LEU:HB3	4:Wm:512:PRO:HB2	2.00	0.44
4:XK:215:PRO:HB3	4:XK:229:ASN:HB3	2.00	0.44
4:Xk:100:ALA:HB1	4:Xk:129:ARG:HB2	2.00	0.44
4:Xk:221:GLU:OE2	4:Xk:233:ARG:NH1	2.51	0.44
4:Xk:406:LEU:O	4:Xo:409:SER:HA	2.18	0.44
4:Xk:455:PRO:O	4:Xk:458:THR:OG1	2.24	0.44
4:Xn:180:VAL:HG13	4:Xn:181:PHE:N	2.32	0.44
4:Xn:274:THR:OG1	4:Xn:275:SER:N	2.50	0.44
4:Xn:323:THR:HG21	4:Xn:354:THR:HG23	1.99	0.44
4:Xn:457:GLY:N	4:Xn:600:ARG:O	2.40	0.44
4:Xo:103:ASN:N	4:Xo:127:ASN:O	2.50	0.44
4:Xo:331:CYS:O	4:Xo:349:TRP:NE1	2.42	0.44
5:YX:200:TYR:OH	5:YX:292:GLU:OE1	2.36	0.44
5:YY:227:ASP:CG	5:YY:228:ARG:HG2	2.42	0.44
5:YY:314:THR:OG1	5:YY:315:ASP:N	2.51	0.44
5:YY:348:ARG:H	5:YY:348:ARG:HG2	1.41	0.44
5:YY:653:MET:HE1	5:YY:668:CYS:SG	2.57	0.44
5:Yx:248:LEU:CD2	5:Yx:249:GLY:H	2.31	0.44
5:Yx:724:ALA:C	5:Yx:726:PHE:N	2.74	0.44
6:aD:138:ASP:HA	6:aD:150:LYS:HE3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b0:296:SER:O	7:b0:311:ILE:HG13	2.17	0.44
7:b0:486:GLN:NE2	11:hp:11:GLU:OE1	2.51	0.44
7:b0:536:TYR:HD1	7:b0:536:TYR:HA	1.73	0.44
7:b3:413:THR:OG1	7:b3:425:ASN:HB3	2.17	0.44
7:b5:480:ARG:HA	7:b5:483:ASN:HD22	1.82	0.44
7:b7:296:SER:O	7:b7:311:ILE:HG13	2.18	0.44
7:b8:108:SER:O	7:b8:177:GLY:HA2	2.16	0.44
7:bP:557:PHE:HE1	7:cN:642:PHE:HB3	1.82	0.44
7:bR:153:LYS:HG2	7:bR:167:TRP:CH2	2.53	0.44
7:cB:117:THR:HG23	7:cB:126:GLU:O	2.18	0.44
7:cB:572:LEU:HD12	7:cB:572:LEU:HA	1.79	0.44
7:cC:484:VAL:HG13	7:cC:485:SER:H	1.82	0.44
7:cD:352:ALA:HB2	7:cD:385:THR:HB	1.98	0.44
7:cD:572:LEU:O	7:cD:573:PHE:C	2.60	0.44
7:cE:107:GLY:HA3	7:cE:110:TYR:HE2	1.82	0.44
7:cF:110:TYR:CD1	7:cF:177:GLY:HA3	2.52	0.44
7:cF:410:PRO:O	7:cF:413:THR:HG22	2.17	0.44
7:cH:131:ILE:HD11	7:cH:171:ILE:HD13	1.98	0.44
7:cJ:394:VAL:HG11	7:cJ:443:ILE:HD12	1.99	0.44
7:cJ:451:ASP:OD2	7:cJ:470:LEU:HB3	2.18	0.44
7:cK:121:VAL:HG13	7:cK:166:ASN:HB3	2.00	0.44
7:cL:379:ALA:HB2	7:cL:469:PRO:HD3	1.98	0.44
7:cM:453:ASN:HB2	7:cM:506:ALA:HB3	1.98	0.44
7:dS:66:MET:O	7:dS:70:ASN:ND2	2.50	0.44
7:dS:154:ALA:HB1	7:dS:159:GLU:O	2.17	0.44
7:dS:456:TYR:CD2	7:dS:504:LYS:HD2	2.53	0.44
7:dS:601:ILE:H	7:dS:601:ILE:HG12	1.58	0.44
7:dV:268:VAL:HG23	7:dV:269:PHE:H	1.82	0.44
8:eU:493:LYS:HE3	8:eU:493:LYS:HB2	1.82	0.44
8:eU:538:VAL:HG11	8:eU:558:PHE:CE1	2.53	0.44
8:eU:611:LEU:HD11	8:eU:616:PHE:CZ	2.52	0.44
8:eW:148:ARG:HH21	8:eW:168:ALA:HB2	1.83	0.44
8:eW:157:LYS:HB3	8:eW:157:LYS:HZ2	1.83	0.44
8:fA:231:ASP:OD2	14:IV:35:TYR:OH	2.36	0.44
8:fB:303:ASN:N	8:fB:304:PRO:HD3	2.32	0.44
8:fB:461:LYS:O	8:fB:465:LEU:HG	2.17	0.44
8:fS:523:VAL:HG22	8:fS:524:VAL:H	1.82	0.44
8:fS:634:THR:HG22	8:fS:640:ILE:HG13	1.99	0.44
8:fU:60:LEU:HB3	8:fr:63:ASN:OD1	2.17	0.44
8:fW:292:LEU:HB3	8:fW:295:ILE:HB	2.00	0.44
8:fr:544:ASP:HB2	8:fr:576:ASP:OD1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gE:200:ILE:HG12	9:gE:201:GLY:N	2.32	0.44
9:gE:485:ASP:OD1	9:gE:485:ASP:N	2.48	0.44
9:gG:439:TYR:HB2	9:gH:431:THR:HA	1.98	0.44
11:hL:32:PHE:HZ	11:hL:71:VAL:HG11	1.82	0.44
11:he:118:ARG:HA	11:he:118:ARG:HD2	1.88	0.44
11:hk:98:GLU:OE1	11:hk:98:GLU:N	2.40	0.44
11:hm:143:ASP:OD1	11:hm:144:TRP:N	2.49	0.44
11:hn:57:LYS:HB3	11:hn:57:LYS:HE2	1.66	0.44
11:ho:1:MET:HE2	11:hp:120:ALA:HB1	2.00	0.44
11:hq:1:MET:HB2	11:hq:1:MET:HE3	1.66	0.44
11:hr:73:VAL:HG12	11:hr:74:MET:O	2.17	0.44
11:hs:80:ASP:O	11:hs:84:LYS:HG3	2.17	0.44
12:iC:89:GLY:HA3	12:iC:115:ILE:HD12	1.98	0.44
12:iD:34:THR:OG1	12:iD:55:TYR:O	2.26	0.44
15:m1:94:ASN:ND2	15:m1:107:GLU:OE2	2.45	0.44
15:m5:56:ASP:O	15:m5:76:ASN:ND2	2.51	0.44
16:o0:64:PHE:HB2	16:o0:127:ILE:HG13	2.00	0.44
16:o1:111:ILE:H	16:o1:111:ILE:HG13	1.54	0.44
16:pB:323:LYS:HB3	16:pB:339:PRO:HG2	1.99	0.44
17:q3:233:ASP:OD1	17:q3:233:ASP:N	2.50	0.44
17:q4:177:TRP:NE1	17:q4:195:VAL:HG12	2.30	0.44
1:S0:139:ASN:HB2	1:S7:141:VAL:HG22	1.99	0.44
1:S2:349:TRP:HB2	1:S2:522:ILE:HD13	1.99	0.44
1:S2:515:TRP:CZ2	1:S3:439:ILE:HG23	2.52	0.44
1:S3:240:ASN:HB3	1:S3:243:VAL:HG22	1.99	0.44
1:S5:77:THR:OG1	1:S5:78:PRO:HD2	2.18	0.44
1:S6:116:ILE:HG23	1:S6:120:LYS:HB2	2.00	0.44
1:SA:260:ARG:HD3	1:Sy:262:VAL:HG23	1.99	0.44
1:SO:335:ASN:N	1:SP:329:ASN:OD1	2.46	0.44
1:Sv:192:GLN:HG3	1:Sx:188:GLN:HG3	1.99	0.44
1:Sv:473:LYS:NZ	4:XK:362:GLU:HA	2.32	0.44
1:Sw:77:THR:OG1	1:Sw:78:PRO:HD2	2.17	0.44
1:Sw:511:GLU:HB3	1:Sw:513:ARG:HH11	1.82	0.44
1:Sx:29:ILE:HG22	1:Sx:30:THR:H	1.83	0.44
1:Sx:481:SER:N	1:Sz:463:THR:OG1	2.50	0.44
2:Td:216:THR:HG21	2:Tf:222:LEU:HD13	1.99	0.44
2:Tf:39:TYR:CG	2:Th:7:LYS:HD3	2.52	0.44
2:Th:67:TYR:CD2	2:Th:84:ARG:HB3	2.52	0.44
3:UM:62:PHE:CD2	3:UN:64:ILE:HD11	2.53	0.44
3:Uq:13:ARG:O	3:Uq:17:PHE:HB2	2.18	0.44
3:Us:126:VAL:HG21	3:Us:154:SER:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vt:7:LYS:HB3	4:Xj:318:GLN:HE22	1.82	0.44
4:Wl:258:TYR:CE2	4:Wl:384:THR:HG23	2.52	0.44
4:Wl:386:PHE:CZ	4:WJ:390:LEU:HD13	2.52	0.44
4:WJ:118:LYS:HE3	4:WJ:144:GLU:HA	2.00	0.44
4:WJ:146:VAL:HG12	4:WK:151:ILE:O	2.18	0.44
4:WK:265:LEU:HB3	4:WK:281:TYR:HB3	1.99	0.44
4:WK:266:LEU:HB2	4:WK:271:THR:HG23	1.99	0.44
4:Wj:517:GLY:N	4:Wn:594:THR:OG1	2.50	0.44
4:Wl:58:GLN:O	4:Wl:78:THR:N	2.45	0.44
4:Wl:137:TYR:HA	4:Wl:143:TRP:CD1	2.52	0.44
4:XI:527:LEU:HD21	4:XI:586:ILE:HD11	2.00	0.44
4:Xj:315:GLY:HA2	4:Xn:317:LEU:O	2.17	0.44
4:Xj:407:TYR:CE1	4:Xn:407:TYR:HB2	2.52	0.44
4:Xk:26:ILE:HG13	4:Xm:30:PHE:CE2	2.49	0.44
4:XI:153:LYS:HD3	4:XI:154:ILE:H	1.82	0.44
4:XI:161:ASN:N	4:XI:161:ASN:OD1	2.49	0.44
4:XI:458:THR:O	4:XI:599:ILE:HA	2.18	0.44
4:Xm:361:ASP:HB3	4:Xm:362:GLU:OE1	2.18	0.44
4:Xm:410:GLN:HG3	4:Xo:408:VAL:H	1.82	0.44
4:Xo:259:THR:OG1	4:Xo:385:TRP:HB2	2.18	0.44
5:YC:302:ALA:O	5:YC:303:ASN:ND2	2.50	0.44
5:YX:7:SER:OG	5:YX:8:VAL:N	2.51	0.44
5:YY:113:MET:HE3	5:YY:113:MET:HB3	1.93	0.44
5:YY:302:ALA:C	5:YY:304:VAL:H	2.25	0.44
5:YY:350:PHE:HD1	5:YY:350:PHE:HA	1.71	0.44
5:YY:574:LYS:HE2	5:YY:576:THR:HB	1.98	0.44
5:YY:674:TYR:HB2	8:fs:36:TRP:CD1	2.52	0.44
5:YY:781:LEU:O	5:YY:784:GLN:HB2	2.18	0.44
5:Yc:200:TYR:OH	5:Yc:292:GLU:OE1	2.35	0.44
5:Yc:421:GLU:HA	5:Yc:424:ARG:HE	1.81	0.44
5:Yx:382:GLU:CD	5:Yx:400:ASP:H	2.24	0.44
5:Yx:584:GLY:HA2	5:Yx:600:PHE:HB2	1.99	0.44
5:Yx:917:LYS:HB3	5:Yx:917:LYS:HZ2	1.82	0.44
6:ZD:274:ILE:O	6:ZD:310:ILE:N	2.48	0.44
6:ZZ:54:VAL:HG23	6:Zb:5:SER:HA	1.98	0.44
6:ZZ:280:GLU:HA	6:ZZ:302:LEU:HD23	1.99	0.44
6:ab:107:ARG:HD3	6:ab:159:LYS:HB3	1.98	0.44
7:b4:455:LYS:HZ1	7:b4:473:ASP:CG	2.25	0.44
7:b5:26:THR:HA	7:b5:77:ASP:O	2.17	0.44
7:b6:332:GLU:OE1	7:b6:332:GLU:N	2.36	0.44
7:b6:614:THR:C	7:b6:616:SER:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b7:470:LEU:HD21	7:b7:525:VAL:HG11	1.98	0.44
7:b8:11:LYS:O	7:cF:641:ASN:HA	2.17	0.44
7:b8:467:TRP:CH2	7:cC:199:GLU:HB2	2.52	0.44
7:b9:571:ARG:NH1	7:b9:583:SER:OG	2.50	0.44
7:bO:384:GLU:HG2	7:bO:439:ASN:OD1	2.17	0.44
7:bQ:635:ILE:O	7:bQ:636:ASN:ND2	2.50	0.44
7:bR:57:PRO:HB3	7:bR:65:PHE:HB3	1.98	0.44
7:bY:642:PHE:CE1	7:dZ:564:ILE:HD11	2.48	0.44
7:cA:410:PRO:O	7:cA:413:THR:HG22	2.17	0.44
7:cB:640:LEU:HD11	7:cK:568:SER:OG	2.17	0.44
7:cE:31:GLY:HA3	7:cE:64:TYR:CD2	2.53	0.44
7:cF:157:VAL:HG23	7:cF:159:GLU:H	1.82	0.44
7:cK:36:GLY:O	7:cK:82:ARG:NH1	2.50	0.44
7:cK:542:THR:OG1	7:cK:544:VAL:O	2.35	0.44
7:cM:485:SER:OG	7:cM:486:GLN:N	2.50	0.44
7:cO:100:GLU:OE2	7:cO:186:LYS:HG3	2.18	0.44
7:dU:23:SER:OG	7:dU:24:THR:N	2.50	0.44
7:dV:229:GLU:OE2	7:dV:345:SER:OG	2.31	0.44
7:dW:383:LEU:HD11	7:dW:436:TYR:CE1	2.53	0.44
7:dZ:332:GLU:OE1	7:dZ:332:GLU:N	2.35	0.44
7:dZ:478:CYS:O	7:dZ:555:ARG:NH2	2.50	0.44
7:dZ:498:GLN:HA	7:dZ:534:VAL:HG12	2.00	0.44
8:eU:40:GLN:NE2	8:eU:43:PHE:O	2.49	0.44
8:eW:327:GLU:O	8:eW:331:ILE:HG12	2.17	0.44
8:eW:429:LEU:HD23	8:eW:429:LEU:HA	1.90	0.44
8:fA:94:GLN:HE21	8:fA:94:GLN:HB2	1.57	0.44
8:fA:191:ASN:HB3	8:fA:275:THR:O	2.17	0.44
8:fB:506:LYS:O	8:fB:509:SER:OG	2.32	0.44
8:fU:337:GLN:HG2	8:fr:251:ALA:HB2	2.00	0.44
8:fU:418:THR:HB	8:fU:482:ILE:HG22	2.00	0.44
8:fW:135:ALA:HA	8:fW:283:ALA:HA	2.00	0.44
8:fW:216:HIS:O	8:fW:217:ALA:C	2.60	0.44
8:fr:198:LYS:HE2	8:fr:198:LYS:HB3	1.80	0.44
8:fs:502:ASN:N	8:fs:600:ASP:OD2	2.51	0.44
9:gG:330:ILE:HD12	9:gG:336:LEU:HD12	1.99	0.44
11:hJ:17:ARG:HG3	11:hJ:20:LEU:HD12	1.98	0.44
11:hK:83:GLN:HA	11:hK:86:VAL:HG22	1.99	0.44
11:hX:136:ASN:O	11:hX:136:ASN:ND2	2.51	0.44
11:ho:56:ARG:HB3	11:ho:56:ARG:NH1	2.32	0.44
11:hz:114:ARG:HB3	11:hz:123:VAL:HG13	1.99	0.44
15:m5:123:LYS:H	15:m5:123:LYS:HG2	1.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o2:141:HIS:NE2	16:pA:233:SER:O	2.51	0.44
16:o6:249:TYR:HE2	16:o6:264:PRO:HA	1.82	0.44
1:S0:99:ARG:HH21	1:S0:111:ASN:ND2	2.15	0.44
1:S0:365:GLY:HA2	1:S6:71:ASN:HB2	1.99	0.44
1:S0:484:THR:HB	1:S7:447:HIS:HB3	2.00	0.44
1:S4:480:ARG:NH1	1:S6:463:THR:O	2.50	0.44
1:S6:47:VAL:H	1:S6:48:PRO:HD2	1.83	0.44
1:S6:60:ILE:HG13	1:S6:75:ALA:O	2.18	0.44
1:S6:142:ILE:HG21	1:S6:158:THR:HA	1.99	0.44
1:S6:289:GLN:OE1	1:S6:294:GLN:NE2	2.51	0.44
1:S6:320:ARG:HE	1:S8:325:TYR:HD2	1.65	0.44
1:S7:20:PRO:HG3	1:S7:29:ILE:HG13	2.00	0.44
1:S7:168:LEU:HA	1:S7:171:LYS:HB3	1.98	0.44
1:S8:117:THR:HG22	1:S8:120:LYS:NZ	2.32	0.44
1:SA:496:ARG:NH1	1:SA:501:THR:OG1	2.51	0.44
1:Sv:233:GLN:HG2	4:WI:348:THR:HG22	1.98	0.44
1:Sv:463:THR:O	1:Sz:480:ARG:NH1	2.51	0.44
1:Sx:405:ARG:HD2	1:Sx:430:THR:HB	2.00	0.44
1:Sx:446:LYS:H	1:Sz:503:ASN:ND2	2.15	0.44
2:T2:47:LYS:HA	2:T2:50:VAL:HG23	1.99	0.44
2:T3:204:VAL:HG22	2:T3:276:VAL:HG22	1.99	0.44
2:T4:96:VAL:HG11	2:T4:109:PHE:CZ	2.52	0.44
2:TF:202:LEU:HB3	2:TF:278:VAL:HG22	2.00	0.44
2:Ti:128:ASP:OD2	2:Ti:158:SER:HB3	2.17	0.44
3:UL:203:LEU:HB2	3:UL:206:GLN:HB2	2.00	0.44
3:UM:195:LEU:HA	3:UM:215:PHE:HD1	1.82	0.44
3:UN:17:PHE:CD1	3:UN:47:PHE:HB2	2.53	0.44
3:Uq:4:LEU:HD22	4:Wm:356:TYR:CD2	2.50	0.44
3:Ur:4:LEU:HD11	4:Wn:320:LEU:HD12	1.99	0.44
3:Us:142:ALA:N	3:Us:161:LEU:HD12	2.33	0.44
3:VL:72:THR:OG1	3:VL:214:HIS:ND1	2.44	0.44
3:VN:114:VAL:HG21	3:VN:129:VAL:HG22	1.98	0.44
3:Vq:102:GLY:N	3:Vq:118:THR:OG1	2.50	0.44
3:Vr:90:PHE:CD1	3:Vr:178:ILE:HG12	2.52	0.44
3:Vs:42:GLN:OE1	3:Vs:42:GLN:N	2.51	0.44
3:Vs:82:VAL:HG23	3:Vs:187:LYS:HE3	2.00	0.44
3:Vs:102:GLY:N	3:Vs:118:THR:OG1	2.50	0.44
3:Vt:87:TYR:CE1	3:Vt:157:GLU:HB2	2.53	0.44
4:WI:396:LYS:HB3	4:WI:396:LYS:HE2	1.72	0.44
4:WI:441:ARG:NH2	4:WI:451:ASP:HB3	2.33	0.44
4:WI:594:THR:OG1	4:WJ:518:GLY:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:23:GLY:O	4:WK:25:LYS:N	2.45	0.44
4:Wk:394:LEU:HG	4:Wk:395:THR:H	1.81	0.44
4:Wl:312:ARG:HG2	4:Wl:317:LEU:HA	1.99	0.44
4:Wn:416:ILE:O	4:Wn:438:SER:HA	2.18	0.44
4:Wo:192:ARG:O	4:Wo:244:ILE:HA	2.18	0.44
4:XI:403:THR:O	4:XI:407:TYR:HB2	2.18	0.44
4:XJ:354:THR:HG21	4:XJ:370:HIS:ND1	2.32	0.44
4:XK:215:PRO:HG3	4:XK:226:ASP:H	1.82	0.44
4:Xl:198:ASN:ND2	4:Xn:194:LYS:HD3	2.32	0.44
4:Xl:542:LEU:HD23	4:Xl:542:LEU:HA	1.85	0.44
4:Xn:139:ALA:HB3	4:Xn:140:PRO:HD3	1.99	0.44
4:Xo:4:ASN:OD1	4:Xo:5:ILE:N	2.50	0.44
4:Xo:148:ASN:OD1	4:Xo:149:LYS:N	2.50	0.44
4:Xo:172:GLN:HG2	4:Xo:173:GLY:H	1.83	0.44
5:YX:584:GLY:HA2	5:YX:600:PHE:HB2	1.99	0.44
5:YX:777:LEU:HD23	5:YX:809:TRP:CG	2.53	0.44
5:YY:376:PHE:HB3	5:YY:405:VAL:HA	2.00	0.44
5:Yc:447:ASN:HD21	6:ZD:73:THR:HG23	1.83	0.44
5:Yc:548:ILE:H	5:Yc:548:ILE:HG13	1.42	0.44
5:Yx:125:GLU:HG2	5:Yx:134:TYR:CD1	2.52	0.44
5:Yx:134:TYR:HD2	5:Yx:135:VAL:HG22	1.82	0.44
5:Yy:38:ILE:H	5:Yy:38:ILE:HG13	1.74	0.44
5:Yy:168:ILE:HD13	5:Yy:578:PHE:HZ	1.82	0.44
6:ZD:289:ASN:HD21	6:ZE:233:GLN:HB2	1.82	0.44
6:ZZ:40:THR:OG1	6:ZZ:273:SER:OG	2.31	0.44
6:Za:21:MET:HB2	6:Za:334:PHE:HD2	1.82	0.44
6:Zb:51:GLU:OE2	6:Zb:270:ARG:NH2	2.39	0.44
6:Zb:132:ARG:HG2	6:Zb:189:GLU:HB3	2.00	0.44
7:b3:654:LEU:HD23	7:b3:654:LEU:HA	1.84	0.44
7:b5:198:ILE:HD11	7:b5:225:LEU:HD11	1.99	0.44
7:b5:373:PHE:HE1	7:b5:403:CYS:HG	1.65	0.44
7:b5:490:SER:O	7:b5:496:ARG:NH1	2.50	0.44
7:b6:485:SER:OG	7:b6:486:GLN:N	2.51	0.44
7:b7:40:GLN:H	7:b7:81:VAL:HG23	1.82	0.44
7:b7:135:ASP:N	7:b7:139:LYS:O	2.51	0.44
7:b7:450:ILE:O	7:b7:523:ASN:ND2	2.51	0.44
7:b9:211:GLN:HE22	7:b9:328:GLN:HB3	1.82	0.44
7:b9:451:ASP:OD2	7:b9:470:LEU:HB3	2.17	0.44
7:bN:169:ALA:HB2	7:bN:184:LEU:HD11	1.99	0.44
7:bP:12:GLU:OE2	7:dT:561:LYS:NZ	2.37	0.44
7:bQ:97:GLY:O	7:bQ:147:THR:OG1	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bQ:430:ARG:HD3	7:bQ:430:ARG:O	2.18	0.44
7:bR:135:ASP:O	7:bR:137:ASP:N	2.50	0.44
7:bY:198:ILE:HG23	7:bY:324:PHE:CE2	2.48	0.44
7:bY:383:LEU:HD11	7:bY:436:TYR:CE2	2.53	0.44
7:cC:542:THR:OG1	7:cC:544:VAL:O	2.35	0.44
7:cD:121:VAL:HG13	7:cD:166:ASN:HB3	1.99	0.44
7:cD:536:TYR:HD1	7:cD:536:TYR:HA	1.73	0.44
7:cE:110:TYR:CE1	7:cE:171:ILE:HD12	2.53	0.44
7:cE:614:THR:C	7:cE:616:SER:H	2.26	0.44
7:cE:647:THR:O	7:cF:630:GLN:NE2	2.50	0.44
7:cF:406:LEU:HD22	7:cF:474:ILE:HG13	1.99	0.44
7:cG:413:THR:C	7:cG:417:ILE:HD11	2.43	0.44
7:cH:57:PRO:HB3	7:cH:62:ALA:HA	1.98	0.44
7:cI:455:LYS:HD3	7:cI:502:VAL:HG22	1.98	0.44
7:cJ:451:ASP:OD1	7:cJ:452:GLY:N	2.45	0.44
7:cL:484:VAL:HG13	7:cL:485:SER:H	1.81	0.44
7:cO:110:TYR:CG	7:cO:177:GLY:HA3	2.52	0.44
7:dT:505:LEU:HD21	7:dT:525:VAL:HG12	2.00	0.44
7:dU:33:PHE:HB2	7:dU:82:ARG:HG2	1.98	0.44
8:eB:440:ILE:HD11	8:eB:653:ILE:HG21	1.99	0.44
8:eU:164:ARG:NH2	8:eU:305:ASN:OD1	2.49	0.44
8:eW:21:PHE:HB3	8:fs:66:TYR:CE1	2.53	0.44
8:eW:157:LYS:H	8:eW:157:LYS:NZ	2.15	0.44
8:f9:46:TYR:CZ	15:mT:17:MET:HB2	2.52	0.44
8:f9:53:LEU:HD22	15:mT:23:VAL:HG23	1.99	0.44
8:fA:275:THR:OG1	8:fA:276:ASN:N	2.51	0.44
8:fR:461:LYS:O	8:fR:465:LEU:HG	2.16	0.44
8:fU:113:THR:OG1	8:fU:298:ILE:HG12	2.17	0.44
8:fU:216:HIS:O	8:fU:217:ALA:C	2.60	0.44
8:fU:428:LYS:O	8:fU:474:SER:HB3	2.18	0.44
8:fU:461:LYS:HE2	8:fU:630:ASP:OD1	2.18	0.44
8:fr:473:HIS:ND1	8:fr:473:HIS:O	2.50	0.44
8:fs:135:ALA:HB2	8:fs:143:TYR:HE2	1.82	0.44
9:gE:405:ASP:OD1	9:gH:397:SER:OG	2.35	0.44
9:gE:560:ILE:HG23	9:gH:568:ASP:HB3	1.98	0.44
9:gG:451:ALA:HB3	9:gH:443:ASN:HA	1.99	0.44
9:gH:375:LEU:HD13	9:gH:455:LYS:HB3	1.98	0.44
10:gd:48:GLU:HG3	10:gd:53:TYR:HA	1.99	0.44
11:hf:137:VAL:HA	11:hf:155:VAL:HG22	2.00	0.44
11:hk:28:LEU:HD22	11:hk:84:LYS:HB3	2.00	0.44
11:ho:61:ALA:HA	11:hp:133:TRP:CH2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hr:21:PHE:CG	11:hs:142:LEU:HD23	2.52	0.44
11:hx:20:LEU:HD13	11:hx:118:ARG:HA	2.00	0.44
15:m6:89:ASP:CG	15:m6:90:LYS:H	2.26	0.44
16:o0:329:PHE:HE2	16:o0:339:PRO:HG3	1.81	0.44
16:o2:352:ILE:H	16:o2:352:ILE:HG13	1.58	0.44
16:pB:57:LEU:HD13	16:pB:58:TYR:CD2	2.53	0.44
1:S0:77:THR:HG23	1:S0:79:ALA:H	1.82	0.44
1:S0:210:ILE:HG23	1:S5:210:ILE:HG23	1.98	0.44
1:S0:265:LEU:HB3	1:S0:282:ALA:HB2	1.99	0.44
1:S2:5:THR:HG21	4:XJ:200:LEU:HD22	2.00	0.44
1:S2:20:PRO:HG3	1:S2:29:ILE:HG13	2.00	0.44
1:S2:46:GLY:O	1:S2:47:VAL:HB	2.18	0.44
1:S3:6:TYR:O	4:XI:234:GLN:NE2	2.51	0.44
1:S3:334:GLN:HG3	1:S3:337:ILE:HD12	1.99	0.44
1:S4:412:PRO:CG	1:Sw:87:TYR:HA	2.47	0.44
1:SO:110:VAL:HG12	1:SO:111:ASN:H	1.83	0.44
1:SO:259:MET:C	1:SQ:264:LYS:HG2	2.43	0.44
1:SP:5:THR:HG21	4:WJ:200:LEU:HB2	2.00	0.44
1:Sw:333:THR:HG22	1:Sy:326:ILE:HD12	1.98	0.44
1:Sx:99:ARG:HG2	1:Sx:100:TYR:N	2.32	0.44
1:Sz:127:ASN:O	1:Sz:131:THR:HG23	2.18	0.44
2:T1:26:ASP:O	2:T1:30:LYS:HG3	2.18	0.44
2:T1:38:ILE:HG21	2:T2:38:ILE:HD13	1.99	0.44
2:T4:193:HIS:HB3	2:T4:196:GLU:HG3	1.99	0.44
2:TF:47:LYS:HD2	2:TF:59:GLN:HG2	2.00	0.44
2:TF:215:LYS:HD3	2:TF:250:ALA:HB3	2.00	0.44
2:TG:61:ILE:O	2:TH:4:GLN:NE2	2.48	0.44
2:Tf:114:GLY:HA3	2:Tf:143:TYR:CZ	2.53	0.44
2:Ti:46:ARG:NH2	2:Ti:69:LYS:HD2	2.33	0.44
3:UL:16:ASP:HB3	3:UL:42:GLN:HG3	1.99	0.44
3:Up:56:ILE:HG21	3:Ut:55:ALA:HB1	1.99	0.44
3:Ur:73:ASN:ND2	3:Ur:76:GLY:H	2.15	0.44
3:Uu:4:LEU:HA	4:Wk:318:GLN:NE2	2.33	0.44
3:Vt:16:ASP:HB3	3:Vt:42:GLN:HG3	1.98	0.44
4:WI:67:SER:HA	4:WI:94:ARG:HB2	2.00	0.44
4:WI:170:GLU:O	4:WI:171:VAL:HG12	2.18	0.44
4:WJ:138:CYS:SG	4:WJ:140:PRO:HD2	2.58	0.44
4:Wj:102:TRP:CE3	4:Wj:131:SER:HB2	2.52	0.44
4:Wj:310:GLU:OE2	4:Wl:258:TYR:OH	2.19	0.44
4:Wk:299:ILE:O	4:Wk:301:GLY:N	2.46	0.44
4:Wm:60:LEU:HD11	4:Wm:79:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wn:312:ARG:HG2	4:Wn:317:LEU:HA	1.98	0.44
4:Wn:419:ASP:OD1	4:Wn:420:VAL:N	2.50	0.44
4:XI:118:LYS:NZ	4:XI:145:TYR:O	2.36	0.44
4:XI:241:THR:HG21	4:XK:200:LEU:HD11	1.99	0.44
4:XJ:19:LEU:HD13	4:XK:19:LEU:HD21	1.99	0.44
4:XJ:213:GLY:O	4:XJ:214:SER:OG	2.29	0.44
4:XK:3:GLN:OE1	4:XK:25:LYS:NZ	2.51	0.44
4:Xj:569:TYR:HB2	4:XI:550:VAL:HB	2.00	0.44
4:Xj:594:THR:OG1	4:XI:517:GLY:N	2.50	0.44
4:Xk:204:ASP:OD1	4:Xk:204:ASP:N	2.48	0.44
4:XI:558:ASP:OD1	4:XI:558:ASP:N	2.43	0.44
4:Xn:290:SER:HA	4:Xn:371:PHE:N	2.22	0.44
4:Xo:180:VAL:HG13	4:Xo:181:PHE:N	2.31	0.44
4:Xo:190:ASN:HD22	4:Xo:247:PHE:HB2	1.82	0.44
5:YC:160:VAL:O	5:YC:164:SER:OG	2.31	0.44
5:YC:357:ILE:HA	5:YC:413:TRP:CD1	2.53	0.44
5:YC:926:PRO:HA	5:YC:963:TYR:CD2	2.52	0.44
5:YX:472:LYS:NZ	5:YX:473:TYR:O	2.37	0.44
5:YX:990:MET:C	5:YX:992:PRO:HD2	2.43	0.44
5:YY:229:VAL:O	5:YY:249:GLY:HA2	2.18	0.44
5:YY:441:VAL:O	5:YY:491:ILE:HG23	2.17	0.44
5:Yc:234:SER:O	5:Yc:236:THR:OG1	2.34	0.44
5:Yx:403:ILE:CG2	5:Yx:417:PHE:HB3	2.48	0.44
5:Yx:746:PHE:CZ	8:fU:214:MET:HE3	2.53	0.44
5:Yx:777:LEU:HD23	5:Yx:809:TRP:CG	2.52	0.44
5:Yy:739:GLY:HA3	8:fW:401:LEU:HD23	1.98	0.44
5:Yy:750:VAL:HG12	8:fW:257:ILE:HD12	1.97	0.44
6:ZZ:117:ALA:O	6:ZZ:121:ALA:N	2.50	0.44
6:Zc:134:LEU:HB2	6:Zc:187:VAL:HG13	1.98	0.44
7:b0:184:LEU:HD23	7:b0:184:LEU:HA	1.86	0.44
7:b4:620:ARG:HB2	7:b4:622:GLU:HG3	2.00	0.44
7:b5:438:ASP:OD1	7:b5:438:ASP:N	2.33	0.44
7:b6:304:ILE:HG13	7:b6:305:TYR:CD2	2.53	0.44
7:b7:470:LEU:HD23	7:b7:525:VAL:HG21	2.00	0.44
7:bO:406:LEU:HD13	7:bO:475:ALA:HB2	1.98	0.44
7:bQ:57:PRO:HB3	7:bQ:65:PHE:HB3	1.99	0.44
7:cA:481:THR:O	7:cA:482:ASP:HB2	2.17	0.44
7:cB:391:LYS:HD2	7:cB:443:ILE:HG23	1.99	0.44
7:cC:139:LYS:HA	7:cC:139:LYS:HD2	1.90	0.44
7:cC:560:LEU:O	7:cC:564:ILE:HG12	2.18	0.44
7:cF:76:ASN:O	7:cF:76:ASN:ND2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cI:95:ILE:HD13	7:cI:213:ASN:HB2	2.00	0.44
7:cJ:57:PRO:HG3	7:cJ:65:PHE:CD1	2.52	0.44
7:cK:26:THR:HA	7:cK:77:ASP:O	2.17	0.44
7:cM:601:ILE:HD12	7:cM:604:TYR:HB3	1.99	0.44
7:cN:554:ARG:O	7:cN:554:ARG:HD3	2.18	0.44
7:cP:296:SER:O	7:cP:311:ILE:HG13	2.17	0.44
7:dT:380:GLY:HA3	16:o6:14:LYS:NZ	2.32	0.44
7:dU:105:THR:O	7:dU:180:ALA:HA	2.17	0.44
8:eB:52:ARG:HH21	15:mT:13:PRO:HB3	1.81	0.44
8:eB:103:LYS:H	8:eB:103:LYS:HG2	1.55	0.44
8:eU:15:ASN:OD1	8:eU:39:GLY:HA3	2.18	0.44
8:eU:17:ILE:HG12	8:fR:26:PHE:CG	2.52	0.44
8:eU:66:TYR:OH	14:k7:56:PRO:HG2	2.17	0.44
8:f9:290:ASP:OD1	8:f9:291:THR:N	2.38	0.44
8:fA:102:SER:OG	8:fA:103:LYS:N	2.49	0.44
8:fR:119:ASN:HD21	8:fR:159:ASN:CG	2.22	0.44
8:fR:440:ILE:HD11	8:fR:653:ILE:HG21	2.00	0.44
8:fS:113:THR:O	8:fS:298:ILE:HG12	2.17	0.44
8:fS:123:ILE:HD13	8:fS:123:ILE:HA	1.80	0.44
8:fU:485:VAL:HG22	8:fU:624:TYR:CD1	2.52	0.44
8:fW:136:LYS:HD2	8:fW:136:LYS:HA	1.71	0.44
8:fW:492:TYR:CE1	8:fW:606:ILE:HB	2.52	0.44
8:fr:605:ASN:HB3	8:fr:608:LYS:NZ	2.33	0.44
8:fs:227:ARG:HE	8:fs:235:GLU:CD	2.24	0.44
9:gE:329:MET:O	9:gE:333:THR:OG1	2.34	0.44
11:h2:136:ASN:HB3	11:h2:156:THR:HG23	1.99	0.44
11:hM:48:LYS:HG3	11:hM:59:ASN:HB3	1.99	0.44
11:hh:93:ALA:O	11:hh:100:THR:OG1	2.21	0.44
11:hi:67:ASP:OD1	11:hi:67:ASP:N	2.44	0.44
11:hj:75:ASN:ND2	11:hj:151:GLN:OE1	2.45	0.44
11:ho:66:PHE:HE2	11:hv:56:ARG:HH12	1.65	0.44
11:hr:124:THR:HB	11:hs:78:ALA:HA	1.98	0.44
11:hs:137:VAL:HB	11:hs:155:VAL:HG13	1.98	0.44
11:hv:43:ALA:O	11:hv:162:TRP:NE1	2.44	0.44
12:iD:200:TYR:O	12:iD:204:ILE:HG12	2.17	0.44
15:mT:90:LYS:HB2	15:mT:90:LYS:HE2	1.72	0.44
16:o0:314:CYS:HB2	16:o0:348:MET:HB3	1.99	0.44
16:pA:40:THR:HG21	16:pA:217:GLU:HB3	2.00	0.44
17:q5:186:THR:HG22	17:q9:144:ASN:OD1	2.18	0.44
17:q5:217:THR:HB	17:q5:246:ARG:HB2	1.99	0.44
17:q5:246:ARG:NH1	17:q8:145:SER:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S0:173:ILE:HB	1:S7:170:ILE:HG23	2.00	0.44
1:S1:77:THR:HG23	1:S1:79:ALA:H	1.82	0.44
1:S1:158:THR:OG1	1:S1:159:ALA:N	2.51	0.44
1:S1:173:ILE:HD12	1:S1:173:ILE:HA	1.77	0.44
1:S1:348:MET:HE1	1:S2:521:TYR:HE1	1.83	0.44
1:S2:29:ILE:HG22	1:S2:30:THR:H	1.83	0.44
1:S2:359:TRP:NE1	1:S2:524:LYS:HD3	2.33	0.44
1:S3:382:ARG:HG3	1:S3:383:TYR:CD1	2.53	0.44
1:S3:454:HIS:HD2	1:S3:465:ARG:HH21	1.65	0.44
1:S4:125:LEU:HB2	1:S8:121:PHE:HZ	1.82	0.44
1:S5:351:ALA:O	1:S5:520:ASN:ND2	2.51	0.44
1:S5:395:MET:HA	1:S5:398:LEU:HD12	1.99	0.44
1:S6:302:ILE:HG22	1:S6:304:ASP:H	1.81	0.44
1:S7:141:VAL:O	1:S7:142:ILE:HD12	2.17	0.44
1:SO:474:GLY:HA3	1:SP:472:ARG:HG2	1.99	0.44
1:SP:333:THR:HB	1:SQ:329:ASN:CG	2.43	0.44
1:Sw:144:ILE:HG21	1:Sy:156:ASP:HB3	1.99	0.44
1:Sx:263:VAL:HG12	1:Sx:278:SER:HB3	1.98	0.44
1:Sx:401:ARG:NH1	1:Sx:438:GLN:OE1	2.50	0.44
1:Sx:512:THR:HG1	1:Sz:443:SER:H	1.59	0.44
1:Sy:2:SER:N	4:Wo:239:GLY:O	2.51	0.44
1:Sz:289:GLN:OE1	1:Sz:294:GLN:NE2	2.51	0.44
2:T1:172:GLU:OE1	2:T1:172:GLU:N	2.49	0.44
2:TF:192:PHE:HE1	2:TF:223:VAL:HG21	1.83	0.44
2:Tg:35:PHE:O	2:Tg:39:TYR:HD1	2.01	0.44
2:Th:50:VAL:HG12	2:Th:51:ALA:H	1.82	0.44
3:UL:160:TYR:CZ	3:UN:40:ILE:HG21	2.53	0.44
3:UL:198:ALA:O	3:UM:203:LEU:HB3	2.17	0.44
3:Uq:9:GLY:C	3:Us:13:ARG:HD2	2.43	0.44
3:VM:10:VAL:HG13	3:VN:13:ARG:HG3	2.00	0.44
3:Vr:79:PRO:HD2	3:Vr:193:TRP:HB2	1.99	0.44
4:WI:89:TYR:CE1	4:WI:139:ALA:HA	2.53	0.44
4:WI:326:MET:H	4:WI:326:MET:HG3	1.52	0.44
4:WI:359:GLU:HB3	4:WI:370:HIS:HB3	1.98	0.44
4:WI:535:THR:O	4:WK:576:THR:N	2.51	0.44
4:WJ:335:ASP:O	4:WJ:336:SER:HB3	2.18	0.44
4:WK:204:ASP:OD1	4:WK:205:VAL:N	2.50	0.44
4:WK:231:ARG:HG2	4:WK:232:LEU:H	1.81	0.44
4:WK:320:LEU:HD23	4:WK:358:VAL:HG23	2.00	0.44
4:Wj:326:MET:HG3	4:Wj:327:PRO:HD3	1.98	0.44
4:Wm:138:CYS:SG	4:Wm:140:PRO:HD2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:172:GLN:HG3	4:Wm:237:ASN:HA	2.00	0.44
4:Wm:274:THR:HA	4:Wm:282:VAL:HG11	2.00	0.44
4:Wo:215:PRO:HB3	4:Wo:229:ASN:C	2.43	0.44
4:Wo:303:PRO:O	4:Wo:304:ILE:HG13	2.17	0.44
4:XI:298:LEU:HD12	4:XI:298:LEU:HA	1.90	0.44
4:XI:311:VAL:HG13	4:XI:320:LEU:HB2	1.99	0.44
4:XI:463:ALA:HB2	4:XJ:459:ILE:HD11	1.98	0.44
4:XJ:38:GLY:HA2	4:XJ:43:PRO:HA	2.00	0.44
4:XJ:311:VAL:HB	4:XJ:383:ILE:HD13	2.00	0.44
4:XK:102:TRP:O	4:XK:103:ASN:HB2	2.17	0.44
4:XK:174:GLN:HE21	4:XK:177:PHE:HE1	1.66	0.44
4:Xj:65:GLY:HA3	4:XI:44:TYR:HA	2.00	0.44
4:Xj:264:ARG:HB3	4:Xn:326:MET:HE1	2.00	0.44
4:Xj:313:PHE:HA	4:Xj:381:ILE:HA	2.00	0.44
4:Xj:552:VAL:HG11	4:Xn:569:TYR:CE2	2.53	0.44
4:Xk:258:TYR:CE1	4:Xk:384:THR:HG23	2.53	0.44
4:Xk:358:VAL:HG13	4:Xk:369:LEU:HB2	1.99	0.44
4:Xk:520:GLY:O	4:Xo:591:PRO:HA	2.18	0.44
4:XI:290:SER:HA	4:XI:371:PHE:N	2.33	0.44
4:Xm:186:TYR:OH	4:Xm:191:ILE:HB	2.18	0.44
4:Xm:326:MET:HG3	4:Xm:327:PRO:HD3	2.00	0.44
4:Xm:468:ASN:HB3	4:Xm:471:THR:HG23	1.99	0.44
4:Xn:191:ILE:O	4:Xn:192:ARG:NH1	2.41	0.44
4:Xo:117:ILE:O	4:Xo:118:LYS:HG3	2.18	0.44
4:Xo:454:TYR:CD1	4:Xo:458:THR:HG21	2.53	0.44
5:YC:327:ARG:HD2	5:YC:350:PHE:CE2	2.52	0.44
5:YC:600:PHE:CZ	5:YC:608:VAL:HB	2.47	0.44
5:YC:694:TYR:HE2	5:YC:696:ARG:HD2	1.82	0.44
5:YC:711:ARG:HH12	5:YC:881:ARG:HG2	1.82	0.44
5:Yc:453:ASP:HB3	5:Yc:474:GLU:O	2.18	0.44
5:Yc:737:THR:OG1	8:fB:215:VAL:HG11	2.17	0.44
5:Yc:873:SER:HB2	8:eB:659:SER:HB3	2.00	0.44
5:Yc:1027:GLN:HA	6:aE:6:VAL:O	2.18	0.44
5:Yx:872:SER:HB3	6:ab:324:GLN:HG3	2.00	0.44
5:Yx:963:TYR:CG	5:Yx:964:PRO:HD2	2.53	0.44
5:Yy:9:THR:HG21	6:ac:57:ALA:HB3	2.00	0.44
5:Yy:770:ILE:HG21	5:Yy:820:LEU:HD12	2.00	0.44
5:Yy:919:TYR:CZ	5:Yy:1005:ARG:HB2	2.53	0.44
5:Yy:923:SER:HB2	5:Yy:986:ARG:CZ	2.48	0.44
6:Za:270:ARG:NH2	6:Za:317:PRO:HB3	2.32	0.44
6:aa:92:ARG:HB3	6:aa:208:ILE:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b3:296:SER:O	7:b3:311:ILE:HG13	2.17	0.44
7:b4:31:GLY:HA3	7:b4:64:TYR:CD2	2.52	0.44
7:b4:107:GLY:HA3	7:b4:110:TYR:HE2	1.82	0.44
7:b4:151:ILE:O	7:b4:155:LYS:HG2	2.17	0.44
7:b5:411:ARG:O	7:b5:415:VAL:HB	2.18	0.44
7:b7:488:TRP:O	7:b7:552:ASN:ND2	2.50	0.44
7:b8:33:PHE:HA	7:b8:61:THR:HG23	2.00	0.44
7:b9:33:PHE:O	7:b9:82:ARG:NH2	2.51	0.44
7:bN:22:ASN:OD1	17:q4:255:ARG:N	2.39	0.44
7:bN:450:ILE:HG22	7:bN:541:ALA:HB2	2.00	0.44
7:bO:135:ASP:O	7:bO:137:ASP:N	2.51	0.44
7:bY:241:LYS:HA	7:bY:273:PRO:HG2	2.00	0.44
7:cA:451:ASP:OD2	7:cA:470:LEU:HB3	2.17	0.44
7:cC:246:LYS:HB2	7:cC:250:ALA:HB2	1.99	0.44
7:cE:152:ALA:O	7:cE:156:GLU:HG2	2.18	0.44
7:cG:538:ASP:O	7:cG:550:ARG:HG3	2.18	0.44
7:cH:159:GLU:O	7:cH:162:THR:N	2.46	0.44
7:cI:494:TYR:HE2	7:cI:528:THR:HG21	1.82	0.44
7:cI:571:ARG:HA	7:cI:571:ARG:HD3	1.94	0.44
7:cK:464:VAL:HG12	7:cP:313:ASP:HB3	2.00	0.44
7:cK:484:VAL:HG13	7:cK:485:SER:H	1.82	0.44
7:cL:655:THR:HB	7:cM:19:VAL:HG21	1.99	0.44
7:cM:247:GLY:HA2	7:cM:266:LYS:HG3	1.99	0.44
7:cN:430:ARG:NH2	7:cN:443:ILE:O	2.50	0.44
7:cP:118:VAL:HB	7:cP:126:GLU:HB3	1.99	0.44
7:dS:119:LYS:HA	7:dS:123:ASP:O	2.17	0.44
7:dT:451:ASP:OD2	7:dT:470:LEU:HB3	2.17	0.44
7:dU:526:THR:HG22	7:dU:536:TYR:HB2	1.99	0.44
7:dV:383:LEU:HD11	7:dV:436:TYR:HE1	1.83	0.44
7:dW:470:LEU:HD12	7:dW:470:LEU:HA	1.85	0.44
7:dZ:315:PHE:CE2	7:dZ:325:ALA:HB3	2.53	0.44
8:eB:132:LEU:HG	8:eB:289:ALA:HB2	2.00	0.44
8:fA:401:LEU:HB2	8:fA:404:ILE:HG22	1.98	0.44
8:fB:336:GLN:HB3	8:fB:338:ARG:HG2	1.99	0.44
8:fB:547:SER:O	8:fB:548:LYS:NZ	2.34	0.44
8:fR:339:CYS:HB3	8:fR:348:PHE:CD2	2.52	0.44
8:fS:593:GLY:HA3	8:fS:604:TRP:HA	1.99	0.44
8:fW:549:GLY:O	8:fW:550:ILE:HD12	2.18	0.44
8:fs:8:TYR:CE2	8:fs:10:LEU:HA	2.53	0.44
9:gH:41:GLN:OE1	12:iF:122:ARG:NH1	2.51	0.44
11:h1:23:VAL:HG11	11:h1:39:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hJ:64:ARG:NH1	11:hK:95:GLN:HG3	2.32	0.44
11:hK:112:ILE:HD11	11:hK:126:GLU:OE2	2.17	0.44
11:he:54:MET:HE3	11:hk:20:LEU:HA	1.99	0.44
11:hf:133:TRP:CZ3	11:hf:135:THR:HG22	2.53	0.44
11:hh:61:ALA:HA	11:hi:133:TRP:CH2	2.53	0.44
11:hk:37:LYS:NZ	11:hk:152:THR:OG1	2.49	0.44
11:hn:39:THR:HG22	11:hn:71:VAL:HG22	2.00	0.44
11:hq:37:LYS:HZ2	11:hq:74:MET:HG2	1.82	0.44
11:hr:45:ILE:HA	11:hs:135:THR:O	2.16	0.44
12:iC:142:ASP:OD1	12:iC:142:ASP:N	2.49	0.44
12:iC:292:TYR:HE1	12:iC:369:PRO:HD2	1.83	0.44
12:iD:12:LEU:HG	12:iD:14:VAL:HG23	2.00	0.44
15:m5:64:ASN:OD1	15:m5:64:ASN:N	2.50	0.44
15:mT:82:ARG:HD3	15:mT:82:ARG:HA	1.83	0.44
16:o2:195:SER:O	16:o2:196:MET:HB2	2.18	0.44
17:q4:224:SER:HA	17:q7:132:GLU:HB3	2.00	0.44
1:S0:58:LEU:HD11	1:S0:75:ALA:HB2	2.00	0.44
1:S0:371:ASP:CG	1:S0:526:LYS:HZ3	2.25	0.44
1:S1:117:THR:HG22	1:S1:120:LYS:NZ	2.33	0.44
1:S4:139:ASN:OD1	1:S4:139:ASN:N	2.51	0.44
1:S4:160:MET:SD	1:S8:165:THR:HG21	2.58	0.44
1:S4:176:ILE:HG23	1:S4:177:ALA:N	2.33	0.44
1:S5:117:THR:OG1	1:S7:112:ASN:HA	2.18	0.44
1:S6:166:GLN:HE22	1:S8:153:GLY:H	1.65	0.44
1:S7:103:ASN:HA	1:S7:106:ALA:HB3	2.00	0.44
1:SA:225:LYS:HG2	1:Sy:229:LYS:HG3	2.00	0.44
1:SO:232:THR:HG22	1:SO:235:GLU:HG3	2.00	0.44
1:SO:417:ASN:O	1:SO:424:ARG:NH1	2.51	0.44
1:SQ:405:ARG:HG3	1:SQ:409:LEU:HB2	2.00	0.44
1:Sv:234:SER:HA	4:WI:346:GLY:C	2.42	0.44
1:Sv:399:PHE:H	1:Sz:516:ASN:HA	1.83	0.44
1:Sz:77:THR:HG23	1:Sz:79:ALA:H	1.82	0.44
1:Sz:240:ASN:HB3	1:Sz:243:VAL:HG22	1.99	0.44
2:T4:18:ALA:HB3	2:T4:23:ILE:HG23	2.00	0.44
2:T9:126:ALA:HB1	2:T9:160:TRP:CD1	2.53	0.44
2:TF:188:ASP:OD1	2:TF:257:LYS:NZ	2.45	0.44
2:TH:20:THR:HG23	2:TH:24:LEU:HD12	2.00	0.44
2:TH:50:VAL:HG12	2:TH:51:ALA:H	1.83	0.44
3:UL:58:ASP:OD1	3:UM:164:GLN:NE2	2.51	0.44
3:UL:127:ALA:HA	3:UL:130:ARG:HD2	1.98	0.44
3:UL:144:ASN:HB2	3:UL:161:LEU:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UN:95:THR:N	3:UN:174:TYR:O	2.49	0.44
3:Up:13:ARG:HA	3:Up:18:LEU:HD21	2.00	0.44
3:Up:39:THR:HA	3:Ur:142:ALA:HB2	2.00	0.44
3:Up:126:VAL:HG21	3:Up:154:SER:HA	1.99	0.44
3:Ur:7:LYS:HA	3:Ut:11:ILE:O	2.17	0.44
4:WI:312:ARG:HG2	4:WI:317:LEU:HA	1.99	0.44
4:WI:314:ASN:HA	4:WI:380:ILE:HG13	1.99	0.44
4:WJ:312:ARG:O	4:WJ:382:ASN:N	2.43	0.44
4:WK:504:ASN:ND2	4:WK:517:GLY:O	2.50	0.44
4:Wj:96:ARG:HH11	4:Wj:151:ILE:HD11	1.83	0.44
4:Wl:261:ARG:HB2	4:Wl:383:ILE:HB	1.99	0.44
4:Wm:70:ILE:HG22	4:Wm:102:TRP:HE1	1.82	0.44
4:Wm:320:LEU:HA	4:Wm:357:SER:CB	2.46	0.44
4:Wm:561:GLU:N	4:Wm:561:GLU:OE1	2.51	0.44
4:Wn:321:ALA:HA	4:Wn:358:VAL:HB	2.00	0.44
4:Xl:597:ARG:NH2	4:XJ:487:LEU:O	2.51	0.44
4:XJ:419:ASP:HB3	4:XJ:436:VAL:HB	1.99	0.44
4:Xk:361:ASP:OD1	4:Xk:362:GLU:N	2.50	0.44
4:Xk:478:TRP:CZ3	4:Xk:600:ARG:HB2	2.53	0.44
4:Xl:361:ASP:HB3	4:Xl:362:GLU:CD	2.43	0.44
4:Xl:480:LEU:HD23	4:Xl:480:LEU:HA	1.89	0.44
4:Xn:468:ASN:HB3	4:Xn:471:THR:HG23	2.00	0.44
4:Xo:138:CYS:SG	4:Xo:140:PRO:HD2	2.58	0.44
5:YC:380:ILE:O	5:YC:401:LYS:HA	2.18	0.44
5:YC:909:THR:HG23	6:ZD:331:LEU:HB2	2.00	0.44
5:YC:963:TYR:CG	5:YC:964:PRO:HD2	2.52	0.44
5:YX:160:VAL:O	5:YX:164:SER:OG	2.28	0.44
5:YX:379:ILE:HG12	5:YX:404:TYR:HE1	1.83	0.44
5:YX:701:TRP:CE2	8:fr:21:PHE:HE2	2.35	0.44
5:YX:848:LEU:HD23	5:YX:849:GLN:H	1.83	0.44
5:Yc:380:ILE:O	5:Yc:401:LYS:HD2	2.18	0.44
5:Yc:735:TYR:CE1	8:fA:334:GLU:HG2	2.53	0.44
5:Yx:438:GLY:O	5:Yx:439:LYS:HG2	2.18	0.44
5:Yx:710:LYS:HG2	8:fr:14:ALA:HB1	2.00	0.44
5:Yy:347:GLU:HB2	5:Yy:349:LEU:HD23	1.99	0.44
5:Yy:613:LYS:HE2	5:Yy:613:LYS:HA	1.99	0.44
5:Yy:657:TYR:OH	8:fW:50:GLY:HA2	2.18	0.44
6:Zb:28:ILE:HG22	6:Zb:83:PRO:HG3	1.99	0.44
7:b0:492:ALA:HB2	7:b0:535:LEU:HD13	1.98	0.44
7:b0:569:LYS:HD3	7:b5:494:TYR:CE2	2.52	0.44
7:b3:400:ARG:HD3	7:b3:403:CYS:SG	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b5:379:ALA:HB2	7:b5:454:TYR:CE2	2.52	0.44
7:b8:110:TYR:CE1	7:b8:177:GLY:HA3	2.52	0.44
7:b8:269:PHE:CE2	7:b8:280:ALA:HB1	2.52	0.44
7:b8:494:TYR:CE1	7:cC:569:LYS:HG3	2.53	0.44
7:b8:641:ASN:HB2	7:cC:626:THR:HG22	1.99	0.44
7:b9:296:SER:O	7:b9:311:ILE:HG13	2.18	0.44
7:bN:120:TYR:CE2	7:bN:157:VAL:HG11	2.53	0.44
7:bN:430:ARG:HD3	7:bN:430:ARG:O	2.17	0.44
7:bO:441:PHE:CZ	7:bO:443:ILE:HD11	2.52	0.44
7:bO:481:THR:O	7:bO:482:ASP:HB2	2.17	0.44
7:bQ:202:GLU:H	7:bQ:202:GLU:HG3	1.65	0.44
7:cC:444:SER:OG	7:cC:543:SER:OG	2.18	0.44
7:cC:642:PHE:CZ	7:cL:564:ILE:HD11	2.53	0.44
7:cF:110:TYR:CG	7:cF:177:GLY:HA3	2.53	0.44
7:cG:527:GLY:HA2	7:cG:533:TYR:CD2	2.53	0.44
7:cJ:101:TYR:CG	7:cJ:143:ILE:HD11	2.53	0.44
7:cN:383:LEU:HD11	7:cN:436:TYR:CE2	2.53	0.44
7:cO:379:ALA:HB2	7:cO:469:PRO:HD3	2.00	0.44
7:cO:411:ARG:O	7:cO:415:VAL:HB	2.18	0.44
7:cP:234:ILE:HB	7:cP:340:LEU:HD12	1.99	0.44
7:cP:344:LEU:HD13	7:cP:346:SER:H	1.83	0.44
7:dU:635:ILE:H	7:dU:635:ILE:HG12	1.52	0.44
7:dV:279:TYR:OH	7:dV:332:GLU:HA	2.18	0.44
7:dW:123:ASP:OD1	7:dW:123:ASP:N	2.51	0.44
7:dW:459:ASP:HB2	7:dW:466:ARG:HD2	2.00	0.44
8:eB:15:ASN:OD1	8:eB:39:GLY:HA3	2.17	0.44
8:eU:337:GLN:HG2	8:fR:251:ALA:HB2	2.00	0.44
8:f9:523:VAL:HG22	8:f9:524:VAL:H	1.83	0.44
8:fA:416:ILE:HG22	8:fA:418:THR:HG22	1.99	0.44
8:fB:521:ARG:O	8:fB:522:LYS:HD2	2.17	0.44
8:fS:157:LYS:HE3	8:fS:157:LYS:HB3	1.88	0.44
8:fS:339:CYS:HA	8:fS:344:ASP:HB3	2.00	0.44
8:fU:144:ASN:OD1	8:fU:144:ASN:N	2.39	0.44
8:fU:521:ARG:O	8:fU:533:ASP:HB2	2.17	0.44
8:fU:554:ILE:CG2	8:fU:589:TYR:HB3	2.48	0.44
8:fW:194:ARG:NH2	8:fW:228:GLU:OE1	2.41	0.44
8:fW:227:ARG:HD3	8:fW:235:GLU:OE1	2.16	0.44
8:fW:246:ASN:OD1	8:fW:246:ASN:N	2.47	0.44
8:fr:372:ALA:HB2	8:fr:404:ILE:HD11	2.00	0.44
8:fs:550:ILE:HG13	8:fs:596:ASN:HB3	2.00	0.44
11:h2:39:THR:HG22	11:h2:71:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hJ:83:GLN:HA	11:hJ:86:VAL:HG22	1.99	0.44
11:hk:37:LYS:HD3	11:hl:145:ASP:OD2	2.18	0.44
11:hk:116:TYR:CE1	11:hk:123:VAL:HG22	2.53	0.44
11:ho:19:ASN:HD22	11:hu:55:ASN:HA	1.83	0.44
12:iD:2:SER:HB2	14:IV:65:GLY:O	2.17	0.44
14:kV:47:THR:HG23	15:nT:117:ASP:HB2	2.00	0.44
14:IV:76:CYS:SG	14:IV:172:ILE:HG13	2.58	0.44
15:nT:18:ASP:OD1	15:nT:19:TRP:N	2.49	0.44
16:o1:300:ALA:HB3	16:pB:336:PRO:HG2	1.99	0.44
16:pA:231:TYR:OH	16:pA:241:GLN:HG2	2.18	0.44
17:q9:110:LEU:H	17:q9:110:LEU:HD13	1.82	0.44
17:q9:160:ILE:HB	17:q9:243:PHE:HE1	1.83	0.44
1:S0:139:ASN:HD21	1:S7:130:GLU:HG2	1.82	0.44
1:S0:352:ASP:HB3	1:S6:53:THR:HG21	1.99	0.44
1:S0:444:TYR:CZ	1:S5:504:ARG:HD2	2.53	0.44
1:S1:77:THR:OG1	1:S1:78:PRO:HD2	2.18	0.44
1:S1:463:THR:HG23	1:S3:483:PHE:CE1	2.51	0.44
1:S3:77:THR:HG23	1:S3:79:ALA:N	2.33	0.44
1:S5:99:ARG:HH21	1:S5:111:ASN:HD22	1.66	0.44
1:S6:6:TYR:CE1	4:Xl:233:ARG:HD2	2.52	0.44
1:SO:39:ILE:HD11	1:SP:39:ILE:HD13	2.00	0.44
1:SO:266:THR:HB	1:SO:273:SER:HB2	1.99	0.44
1:SO:448:ALA:N	1:SP:485:ASN:OD1	2.49	0.44
1:SQ:383:TYR:CZ	1:SQ:393:PRO:HG3	2.53	0.44
1:Sv:77:THR:HG23	1:Sv:79:ALA:H	1.82	0.44
1:Sv:146:SER:O	1:Sv:164:LYS:HD2	2.18	0.44
1:Sv:401:ARG:HG2	1:Sz:518:SER:HA	2.00	0.44
1:Sv:477:TRP:O	1:Sx:467:ASN:HA	2.17	0.44
1:Sx:212:PRO:HA	1:Sx:215:PHE:HB3	2.00	0.44
1:Sy:167:GLN:H	1:Sy:167:GLN:HG3	1.57	0.44
2:T7:128:ASP:HB2	2:T7:158:SER:O	2.18	0.44
2:TF:38:ILE:HG21	2:TG:38:ILE:HD13	2.00	0.44
2:TF:103:LEU:O	2:TH:69:LYS:NZ	2.50	0.44
2:Ti:215:LYS:HG3	2:Ti:239:ARG:HG2	1.99	0.44
3:UL:68:GLY:HA3	3:UM:75:THR:HG23	2.00	0.44
3:UN:199:GLN:HG2	3:UN:201:VAL:HG23	1.99	0.44
3:Ur:87:TYR:CZ	3:Ur:149:HIS:HD2	2.36	0.44
3:Us:94:VAL:HA	3:Us:174:TYR:O	2.18	0.44
3:VM:94:VAL:HG22	3:VM:120:MET:O	2.18	0.44
3:Vr:4:LEU:HD21	4:Xn:357:SER:OG	2.17	0.44
3:Vr:80:GLU:HG2	3:Vr:193:TRP:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vs:4:LEU:HG	4:Xo:318:GLN:OE1	2.18	0.44
4:WI:185:SER:OG	4:WI:186:TYR:N	2.51	0.44
4:WI:289:LYS:HD2	4:WI:372:ASP:HB3	2.00	0.44
4:WI:479:LYS:HG2	4:WI:480:LEU:N	2.33	0.44
4:WJ:191:ILE:H	4:WK:164:ARG:NH2	2.15	0.44
4:WJ:312:ARG:NH2	4:WJ:384:THR:OG1	2.51	0.44
4:WK:276:LEU:N	4:WK:280:ILE:HG22	2.33	0.44
4:WK:326:MET:HB2	4:WK:326:MET:HE3	1.79	0.44
4:WK:469:PRO:HB3	4:WK:473:MET:HE3	2.00	0.44
4:Wj:275:SER:HB3	4:Wj:280:ILE:O	2.17	0.44
4:Wn:23:GLY:C	4:Wn:25:LYS:N	2.76	0.44
4:Wo:401:ASP:OD1	4:Wo:405:ASN:ND2	2.51	0.44
4:XJ:199:GLU:OE1	4:XK:196:ARG:NH2	2.51	0.44
4:Xj:30:PHE:CE2	4:Xn:26:ILE:HG13	2.53	0.44
4:Xj:214:SER:HB2	4:Xj:225:LEU:HA	2.00	0.44
4:Xk:441:ARG:NH2	4:Xk:451:ASP:HB3	2.32	0.44
4:Xl:311:VAL:HG13	4:Xl:320:LEU:HB2	1.98	0.44
4:Xo:117:ILE:HG22	4:Xo:143:TRP:HB2	1.99	0.44
5:YC:785:THR:HA	5:YC:793:CYS:O	2.18	0.44
5:YC:851:ASN:ND2	8:eB:389:ARG:HD2	2.32	0.44
5:YC:975:ASN:HA	5:YC:981:GLN:HG3	2.00	0.44
5:YX:25:TRP:O	5:YX:65:ASN:HB2	2.18	0.44
5:YX:159:ASP:HA	5:YX:593:GLU:HA	1.98	0.44
5:YX:443:LEU:HG	5:YX:490:PHE:HB2	2.00	0.44
5:YY:963:TYR:CD1	5:YY:964:PRO:HD2	2.53	0.44
5:Yc:19:ASN:HA	5:Yc:71:ASP:O	2.18	0.44
5:Yc:207:PRO:HA	5:Yc:229:VAL:HG23	1.99	0.44
5:Yc:415:ARG:HH12	5:Yc:424:ARG:NH1	2.16	0.44
5:Yc:667:PHE:HB2	8:fA:43:PHE:CZ	2.53	0.44
5:Yx:1009:ASN:OD1	5:Yx:1009:ASN:N	2.41	0.44
5:Yy:676:SER:HB3	5:Yy:683:TYR:HB3	2.00	0.44
6:aD:46:PRO:HA	6:aD:270:ARG:CZ	2.47	0.44
6:aD:95:TRP:CH2	6:aD:169:PRO:HD3	2.53	0.44
6:aZ:92:ARG:HB3	6:aZ:208:ILE:HG23	2.00	0.44
6:aa:195:PRO:HG2	6:aa:198:VAL:HB	2.00	0.44
7:b0:30:ALA:HA	7:b0:81:VAL:O	2.18	0.44
7:b0:198:ILE:HG23	7:b0:324:PHE:HE2	1.82	0.44
7:b9:391:LYS:HG2	7:b9:443:ILE:HD13	2.00	0.44
7:bN:31:GLY:HA3	7:bN:64:TYR:CD2	2.53	0.44
7:bP:74:TYR:CD1	7:bP:476:GLY:HA3	2.53	0.44
7:bP:284:ARG:HG2	7:bP:289:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:315:PHE:CD2	7:bP:325:ALA:HB3	2.52	0.44
7:bQ:228:GLY:HA2	7:bQ:345:SER:HB3	2.00	0.44
7:bR:492:ALA:HB2	7:bR:535:LEU:HD13	2.00	0.44
7:bY:109:ASN:ND2	7:bY:176:SER:O	2.49	0.44
7:cA:220:PRO:HG2	7:cA:338:LEU:HD11	1.99	0.44
7:cA:373:PHE:HE2	7:cA:403:CYS:SG	2.41	0.44
7:cC:107:GLY:HA3	7:cC:110:TYR:CE2	2.53	0.44
7:cF:108:SER:OG	7:cF:137:ASP:OD2	2.33	0.44
7:cF:159:GLU:HB3	7:cF:163:LEU:HA	1.99	0.44
7:cF:247:GLY:HA2	7:cF:266:LYS:HG3	2.00	0.44
7:cG:479:ALA:O	7:cG:483:ASN:ND2	2.51	0.44
7:cH:221:GLY:O	7:cH:325:ALA:HA	2.18	0.44
7:cH:655:THR:HB	7:cL:19:VAL:HG21	1.98	0.44
7:cI:47:GLU:CD	7:cI:69:MET:HG3	2.43	0.44
7:cI:510:ARG:HA	7:cN:364:ASP:HB2	1.99	0.44
7:cJ:188:ILE:HG22	7:cJ:190:ASP:H	1.82	0.44
7:cJ:379:ALA:HB2	7:cJ:454:TYR:HE2	1.82	0.44
7:cK:485:SER:OG	7:cK:486:GLN:N	2.51	0.44
7:cM:66:MET:HE1	7:cM:459:ASP:OD2	2.18	0.44
7:cM:110:TYR:CD1	7:cM:177:GLY:HA3	2.53	0.44
7:cN:566:ARG:HG3	7:cN:569:LYS:HE2	1.99	0.44
7:cO:480:ARG:O	7:cO:482:ASP:N	2.51	0.44
7:cP:304:ILE:H	7:cP:304:ILE:HG13	1.45	0.44
7:dT:79:ARG:HD2	7:dT:370:VAL:HG12	2.00	0.44
7:dU:31:GLY:HA3	7:dU:64:TYR:CD2	2.53	0.44
7:dU:140:ILE:O	7:dU:141:LYS:NZ	2.49	0.44
7:dV:116:ILE:N	7:dV:129:GLY:O	2.25	0.44
8:eB:199:LEU:HD23	8:eB:224:TYR:CG	2.53	0.44
8:eU:198:LYS:HE2	8:eU:198:LYS:HB3	1.84	0.44
8:eU:227:ARG:NH1	8:eU:229:THR:HG22	2.32	0.44
8:eU:594:GLU:N	8:eU:594:GLU:OE1	2.50	0.44
8:eW:337:GLN:HG2	8:fs:251:ALA:HB2	1.99	0.44
8:f9:291:THR:O	8:f9:291:THR:OG1	2.29	0.44
8:f9:609:ILE:HA	8:f9:609:ILE:HD12	1.76	0.44
8:fA:186:ILE:HD13	8:fA:235:GLU:HB3	1.98	0.44
8:fS:80:MET:C	8:fS:82:THR:H	2.24	0.44
8:fS:94:GLN:HE21	8:fS:94:GLN:HB2	1.43	0.44
8:fU:227:ARG:HG2	8:fU:228:GLU:N	2.32	0.44
8:fU:320:GLU:HB3	8:fU:324:ARG:HG2	2.00	0.44
8:fr:335:THR:HB	8:fr:344:ASP:OD2	2.18	0.44
8:fr:413:TYR:HB2	8:fr:639:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gE:58:ILE:O	9:gE:58:ILE:HG13	2.17	0.44
9:gH:238:MET:O	9:gH:242:THR:OG1	2.36	0.44
11:hJ:20:LEU:HD21	11:hX:55:ASN:HD21	1.83	0.44
11:hi:43:ALA:HA	11:ht:138:GLY:HA3	1.99	0.44
11:hi:76:ASP:OD1	11:hi:79:HIS:N	2.50	0.44
11:hn:83:GLN:HA	11:hn:86:VAL:HG22	2.00	0.44
11:hy:131:GLY:O	11:hy:159:LEU:HA	2.18	0.44
12:iC:290:ASN:CG	12:iC:372:VAL:HG23	2.42	0.44
16:o0:194:ARG:NE	16:o1:289:ASN:OD1	2.51	0.44
16:o1:102:THR:O	16:o1:103:VAL:C	2.61	0.44
16:o2:105:LYS:HA	16:o2:105:LYS:HD2	1.83	0.44
16:o6:69:MET:HE2	16:o6:289:ASN:HB3	1.98	0.44
16:pA:57:LEU:HD13	16:pA:58:TYR:CD2	2.53	0.44
17:q4:199:ILE:HD13	17:q4:218:MET:HE1	1.98	0.44
17:q5:218:MET:HB3	17:q5:219:HIS:H	1.63	0.44
1:S1:47:VAL:H	1:S1:48:PRO:HD3	1.83	0.43
1:S4:57:ILE:HG22	1:S6:55:LYS:HB3	1.99	0.43
1:S4:504:ARG:HD2	1:S8:444:TYR:CE1	2.53	0.43
1:S5:160:MET:SD	1:S5:165:THR:HB	2.58	0.43
1:S5:192:GLN:OE1	1:S7:188:GLN:NE2	2.50	0.43
1:S7:386:ASN:ND2	1:S7:389:ASN:HB2	2.30	0.43
1:S8:2:SER:HA	4:Xj:200:LEU:HD22	2.00	0.43
1:SA:302:ILE:HG22	1:SA:304:ASP:H	1.82	0.43
1:SO:141:VAL:HG23	1:SP:140:GLY:O	2.18	0.43
1:SO:225:LYS:HG2	1:SQ:229:LYS:HB3	2.00	0.43
1:SP:301:ARG:HE	1:SQ:309:ALA:HB2	1.82	0.43
1:SQ:2:SER:HB3	4:WI:209:ASN:HB3	2.00	0.43
1:Sv:173:ILE:HD12	1:Sv:173:ILE:HA	1.78	0.43
1:Sy:466:SER:HB3	1:Sy:468:PHE:HE2	1.83	0.43
2:T2:173:SER:N	2:T3:166:SER:OG	2.44	0.43
2:T2:174:PRO:HB3	2:T2:197:TYR:HE2	1.82	0.43
2:T3:1:MET:HG2	2:T3:70:HIS:CG	2.52	0.43
2:T4:170:GLN:HA	2:T6:164:ILE:HG23	2.00	0.43
2:T5:133:VAL:HG21	2:T5:137:LEU:HD13	2.00	0.43
2:T6:17:ASN:OD1	2:T6:18:ALA:N	2.50	0.43
2:T7:100:ARG:HB2	2:T7:127:ILE:HG21	1.99	0.43
2:T9:178:THR:HA	2:T9:275:ALA:HA	2.00	0.43
2:TF:188:ASP:HB3	2:TF:262:THR:HG21	1.99	0.43
2:TG:98:ILE:HD13	2:TG:107:VAL:HG21	2.00	0.43
2:Td:7:LYS:NZ	2:Th:59:GLN:OE1	2.37	0.43
2:Td:213:LYS:HD3	2:Td:269:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Te:70:HIS:HB2	2:Te:75:TYR:CE2	2.53	0.43
2:Ti:239:ARG:HB3	2:Ti:249:ILE:HD12	2.00	0.43
3:UL:147:LYS:NZ	3:UL:148:ASP:O	2.51	0.43
3:UM:47:PHE:CE2	3:UM:49:GLU:HB2	2.53	0.43
3:UM:90:PHE:CE2	3:UM:129:VAL:HG21	2.53	0.43
3:UM:126:VAL:HG21	3:UM:154:SER:HA	2.00	0.43
3:UN:126:VAL:O	3:UN:130:ARG:HG3	2.18	0.43
3:Up:4:LEU:HG	4:Wl:318:GLN:HB3	2.00	0.43
3:Us:149:HIS:HB3	3:Us:152:ASP:O	2.18	0.43
3:Us:196:LEU:HG	3:Us:216:GLU:HB2	1.99	0.43
3:VL:87:TYR:CG	3:VL:183:ILE:HD11	2.53	0.43
3:VM:16:ASP:OD2	3:VM:45:LYS:NZ	2.48	0.43
3:VM:73:ASN:HD21	3:VM:215:PHE:HE2	1.65	0.43
3:Vr:40:ILE:HG13	3:Vt:168:LEU:HD21	2.00	0.43
3:Vu:7:LYS:HB3	4:Xk:318:GLN:NE2	2.33	0.43
4:WI:453:ILE:HD12	4:WK:453:ILE:HG21	1.99	0.43
4:WJ:257:SER:O	4:WJ:258:TYR:HB3	2.18	0.43
4:WJ:338:ASP:HB3	4:WJ:349:TRP:HD1	1.83	0.43
4:WK:89:TYR:HA	4:WK:137:TYR:HB3	2.00	0.43
4:Wj:76:ARG:NH2	4:Wj:78:THR:OG1	2.51	0.43
4:Wj:164:ARG:HH11	4:Wn:192:ARG:NH1	2.16	0.43
4:Wk:496:ASP:HB3	4:Wk:500:ALA:HB2	2.00	0.43
4:Wl:572:ALA:HB3	4:Wn:543:ILE:HD12	2.00	0.43
4:Wn:177:PHE:HB2	4:Wn:230:ILE:HD11	1.99	0.43
4:Wo:422:LEU:HD12	4:Wo:601:ILE:HA	1.99	0.43
4:Xl:19:LEU:HD11	5:Yc:996:ALA:HB3	2.00	0.43
4:XJ:8:GLY:HA3	4:XJ:15:THR:HG23	1.99	0.43
4:XJ:194:LYS:HB2	4:XJ:243:GLN:HB2	1.99	0.43
4:XJ:310:GLU:OE2	4:XK:258:TYR:OH	2.20	0.43
4:XK:226:ASP:OD1	4:XK:226:ASP:N	2.50	0.43
4:XK:562:SER:C	4:XK:564:PRO:HD3	2.42	0.43
4:Xj:164:ARG:HH11	4:Xn:192:ARG:NH1	2.16	0.43
4:Xj:569:TYR:HD1	4:Xl:544:VAL:HA	1.83	0.43
4:Xk:217:GLU:HB2	4:Xk:222:LEU:HB2	2.00	0.43
4:Xk:468:ASN:O	4:Xk:471:THR:OG1	2.36	0.43
4:Xl:266:LEU:HA	4:Xl:377:HIS:O	2.18	0.43
4:Xl:569:TYR:HE1	4:Xn:544:VAL:HG22	1.82	0.43
4:Xm:464:VAL:HG12	4:Xo:429:GLY:HA2	2.00	0.43
4:Xo:275:SER:OG	4:Xo:281:TYR:HA	2.18	0.43
5:YC:236:THR:HG23	5:YC:515:ASN:HB3	1.99	0.43
5:YC:450:PHE:CD2	5:YC:453:ASP:HB2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YC:965:LEU:HD21	5:YC:982:LEU:HD21	2.00	0.43
5:YC:1030:ILE:HD12	6:ZE:7:ILE:HD11	2.00	0.43
5:YX:327:ARG:HD2	5:YX:350:PHE:CE2	2.53	0.43
5:YX:548:ILE:H	5:YX:548:ILE:HG13	1.45	0.43
5:YX:909:THR:HG23	6:ZZ:331:LEU:O	2.18	0.43
5:YY:42:LYS:H	5:YY:50:PRO:HD2	1.83	0.43
5:YY:126:LYS:HD3	5:YY:135:VAL:HG23	2.00	0.43
5:YY:1020:ARG:NH2	6:Za:94:ASP:OD2	2.51	0.43
5:Yc:713:ILE:H	5:Yc:713:ILE:HG13	1.64	0.43
5:Yx:189:ARG:HG2	5:Yx:204:ARG:NH2	2.32	0.43
5:Yx:342:SER:O	5:Yx:345:TYR:HB3	2.18	0.43
5:Yx:345:TYR:O	5:Yx:346:SER:OG	2.28	0.43
5:Yx:376:PHE:HB3	5:Yx:405:VAL:HA	2.00	0.43
5:Yx:917:LYS:HD2	5:Yx:917:LYS:HA	1.71	0.43
5:Yy:27:ASP:HB3	5:Yy:65:ASN:HB3	1.98	0.43
5:Yy:449:LYS:HD2	6:aD:74:HIS:CE1	2.53	0.43
6:ZD:103:PRO:HG2	6:ZD:104:TYR:CD2	2.52	0.43
6:ZE:71:MET:HA	6:ZE:271:GLN:NE2	2.33	0.43
6:ZE:191:LEU:HD13	6:ZE:242:VAL:HG12	2.00	0.43
6:ZZ:174:GLY:HA3	6:ZZ:180:ILE:HG12	1.99	0.43
6:ZZ:182:PRO:HD2	6:ZZ:186:TYR:O	2.17	0.43
6:Za:87:ASP:HA	6:Za:212:TRP:HE1	1.83	0.43
6:Za:310:ILE:HB	6:Zc:16:PHE:HB2	1.98	0.43
6:Zb:72:TRP:CZ3	6:Zb:275:ILE:HD13	2.53	0.43
6:aD:275:ILE:HG12	6:aD:309:MET:HB3	2.00	0.43
6:ab:39:ILE:HD11	6:ab:328:ILE:HG21	1.98	0.43
7:b3:110:TYR:CD1	7:b3:177:GLY:HA3	2.53	0.43
7:b3:332:GLU:OE1	7:b3:332:GLU:N	2.36	0.43
7:b8:484:VAL:HG13	7:b8:485:SER:H	1.83	0.43
7:bN:41:ILE:HD11	7:bN:361:PHE:HB3	1.99	0.43
7:bO:430:ARG:NH2	7:bO:541:ALA:HB1	2.33	0.43
7:bQ:94:PRO:HD3	7:bQ:222:VAL:O	2.18	0.43
7:bR:617:VAL:HG13	7:bR:622:GLU:HB3	2.00	0.43
7:bY:31:GLY:HA3	7:bY:64:TYR:CD2	2.53	0.43
7:bY:378:CYS:HB2	7:bY:410:PRO:HA	1.99	0.43
7:bY:620:ARG:NH2	7:bY:622:GLU:OE1	2.51	0.43
7:cB:66:MET:HB3	7:cB:468:VAL:HG11	2.00	0.43
7:cB:621:ASN:OD1	7:cB:621:ASN:N	2.49	0.43
7:cD:23:SER:O	7:cD:76:ASN:HB2	2.18	0.43
7:cD:397:GLY:HA2	7:cD:403:CYS:SG	2.58	0.43
7:cE:572:LEU:HD12	7:cE:572:LEU:HA	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:114:ASP:OD1	7:cH:114:ASP:N	2.51	0.43
7:cH:251:LEU:H	7:cH:251:LEU:HG	1.51	0.43
7:cI:479:ALA:O	7:cI:483:ASN:ND2	2.51	0.43
7:cI:638:ILE:HG23	7:cN:623:PHE:HD1	1.83	0.43
7:cK:264:THR:O	7:cK:266:LYS:N	2.51	0.43
7:cK:563:ASN:OD1	7:cK:591:TYR:OH	2.12	0.43
7:cL:229:GLU:H	7:cL:229:GLU:HG2	1.58	0.43
7:cM:510:ARG:HG2	7:cM:511:GLN:N	2.33	0.43
7:cP:486:GLN:NE2	11:hL:11:GLU:OE1	2.51	0.43
7:cP:644:ALA:O	7:cP:645:THR:OG1	2.35	0.43
7:dS:303:ASP:CG	7:dS:304:ILE:H	2.25	0.43
7:dT:264:THR:OG1	7:dT:284:ARG:NH2	2.51	0.43
7:dU:574:GLU:N	7:dU:574:GLU:OE1	2.51	0.43
7:dV:640:LEU:HD23	15:m6:106:VAL:HG23	2.00	0.43
7:dW:515:ASP:OD1	7:dZ:7:GLY:HA3	2.18	0.43
7:dZ:351:THR:OG1	7:dZ:352:ALA:N	2.51	0.43
7:dZ:586:THR:HG21	17:q4:27:ALA:HB1	2.00	0.43
8:eU:134:TYR:CE2	8:eU:142:PRO:HG3	2.53	0.43
8:eU:246:ASN:ND2	8:eU:250:GLY:HA3	2.33	0.43
8:eU:382:LEU:O	8:eU:413:TYR:OH	2.32	0.43
8:eU:492:TYR:HA	8:eU:606:ILE:HD12	1.99	0.43
8:eW:318:ASP:HB2	8:eW:319:PRO:HD3	1.98	0.43
8:f9:434:GLN:HB2	8:fr:151:VAL:HG23	2.00	0.43
8:fA:227:ARG:NE	8:fA:235:GLU:OE2	2.46	0.43
8:fA:290:ASP:OD1	8:fA:291:THR:N	2.41	0.43
8:fB:508:ARG:HE	8:fB:544:ASP:HB2	1.84	0.43
8:fW:388:GLN:NE2	8:fW:388:GLN:O	2.51	0.43
8:fs:538:VAL:HB	8:fs:556:GLY:HA3	2.00	0.43
8:fs:572:TYR:CE2	8:fs:574:GLY:HA3	2.53	0.43
9:gG:77:VAL:O	9:gG:80:THR:OG1	2.29	0.43
9:gG:432:ARG:HH22	9:gH:432:ARG:HD2	1.83	0.43
9:gG:485:ASP:OD1	9:gG:485:ASP:N	2.50	0.43
9:gG:552:GLU:HB2	9:gG:554:MET:HE1	2.00	0.43
9:gH:416:HIS:CD2	9:gH:418:THR:HG22	2.48	0.43
11:hL:58:ILE:HD11	17:q3:7:PHE:HE2	1.82	0.43
11:hM:44:GLY:N	11:hX:137:VAL:O	2.45	0.43
11:hX:1:MET:HB2	11:hX:1:MET:HE3	1.61	0.43
11:hg:91:ILE:HG22	11:hg:107:TYR:HB3	2.00	0.43
11:hh:55:ASN:HA	11:hn:19:ASN:HD22	1.83	0.43
11:hj:14:ASP:OD1	11:hj:17:ARG:NH2	2.51	0.43
11:hu:49:ILE:O	11:hu:49:ILE:HG12	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iC:17:PHE:CD2	12:iC:23:TRP:HA	2.53	0.43
12:iC:34:THR:HB	16:o0:172:GLY:O	2.18	0.43
12:iC:196:ASN:HB3	16:pB:84:TYR:OH	2.18	0.43
12:iC:239:LYS:HE3	12:iD:61:HIS:HD2	1.82	0.43
14:k3:74:LEU:HD21	14:k3:82:PRO:HB3	2.00	0.43
14:k3:151:ALA:HB3	16:pB:12:ILE:HD11	2.00	0.43
15:m2:126:LEU:HG	15:m2:127:ALA:H	1.83	0.43
16:o0:32:LYS:O	16:o0:33:THR:OG1	2.30	0.43
16:o2:102:THR:O	16:o2:103:VAL:C	2.60	0.43
16:o2:269:LYS:H	16:o2:269:LYS:HG3	1.64	0.43
17:q4:216:PHE:HB2	17:q4:218:MET:CG	2.48	0.43
1:S0:88:PRO:HG2	1:S0:95:TYR:O	2.18	0.43
1:S1:515:TRP:CH2	1:S2:439:ILE:HG23	2.53	0.43
1:S4:77:THR:HG22	1:S4:80:THR:HG23	1.99	0.43
1:S5:77:THR:HG23	1:S5:79:ALA:H	1.82	0.43
1:S6:146:SER:H	1:S6:149:GLN:HB2	1.83	0.43
1:S6:437:VAL:HG21	1:S8:408:HIS:CD2	2.53	0.43
1:S8:175:GLN:HB3	1:S8:187:ASP:HB2	2.00	0.43
1:SA:413:ASN:OD1	1:SA:414:VAL:N	2.52	0.43
1:SP:2:SER:N	4:WK:239:GLY:O	2.51	0.43
1:SP:167:GLN:CD	3:VL:75:THR:HB	2.43	0.43
1:SP:227:VAL:HG23	1:SQ:225:LYS:HB3	2.00	0.43
1:Sv:233:GLN:HE22	1:Sv:249:THR:HA	1.83	0.43
1:Sv:325:TYR:HD1	1:Sv:330:ARG:HA	1.83	0.43
2:T5:63:ALA:N	2:T7:82:GLY:O	2.51	0.43
2:T5:67:TYR:CD2	2:T5:84:ARG:HB3	2.53	0.43
2:T7:50:VAL:C	2:T7:52:ASN:N	2.76	0.43
2:T7:116:ILE:HD11	2:T7:122:LEU:HD12	2.00	0.43
2:T8:200:ALA:HB3	2:T8:221:ILE:HG12	1.99	0.43
2:T9:70:HIS:HB2	2:T9:75:TYR:CE2	2.53	0.43
2:T9:87:ILE:HG13	2:T9:122:LEU:HD11	1.99	0.43
2:T9:200:ALA:HB3	2:T9:221:ILE:HG12	2.00	0.43
2:TF:63:ALA:HB3	2:TG:83:THR:HA	1.99	0.43
2:TH:24:LEU:HD23	2:TH:24:LEU:HA	1.84	0.43
2:Ti:166:SER:O	2:Ti:171:LYS:NZ	2.45	0.43
3:UL:28:ASP:OD1	3:UL:28:ASP:N	2.51	0.43
3:UL:80:GLU:O	3:UL:187:LYS:NZ	2.48	0.43
3:UN:70:ILE:HA	3:UN:215:PHE:O	2.18	0.43
3:VL:37:SER:HA	3:VL:50:PRO:HB3	2.00	0.43
3:Vu:36:GLY:HA2	3:Vu:55:ALA:N	2.33	0.43
4:WJ:18:TYR:HB3	4:WJ:21:LYS:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:102:TRP:CE3	4:WK:131:SER:HB2	2.53	0.43
4:Wk:2:LYS:HB2	4:Wm:41:ASP:HA	1.99	0.43
4:Wk:192:ARG:HB2	4:Wk:245:GLU:O	2.18	0.43
4:Wk:214:SER:HB2	4:Wk:215:PRO:HD2	2.00	0.43
4:Wk:285:LEU:HD11	4:Wk:375:PHE:HB2	2.00	0.43
4:Wn:3:GLN:NE2	4:Wn:28:GLU:OE1	2.34	0.43
4:XI:38:GLY:HA2	4:XI:43:PRO:HA	1.99	0.43
4:XI:372:ASP:OD1	4:XI:372:ASP:N	2.51	0.43
4:XI:594:THR:OG1	4:XJ:517:GLY:N	2.51	0.43
4:XK:214:SER:HB2	4:XK:215:PRO:HD2	1.99	0.43
4:Xj:361:ASP:N	4:Xj:365:ILE:O	2.51	0.43
4:Xk:201:TYR:HB3	4:Xm:164:ARG:NH2	2.33	0.43
4:XI:151:ILE:H	4:XI:151:ILE:HG13	1.63	0.43
4:XI:255:ARG:NH2	4:Xn:249:ASP:HB2	2.33	0.43
4:Xm:103:ASN:O	4:Xm:105:ASN:N	2.51	0.43
4:Xm:150:GLN:O	4:Xm:151:ILE:HG13	2.19	0.43
4:Xm:293:PHE:HB2	4:Xm:296:PHE:HD2	1.83	0.43
4:Xo:200:LEU:HD12	4:Xo:200:LEU:HA	1.70	0.43
4:Xo:213:GLY:O	4:Xo:214:SER:OG	2.25	0.43
5:YX:20:GLN:HE22	5:YX:130:ASN:HD21	1.66	0.43
5:YX:326:VAL:HG13	5:YX:355:MET:HB3	2.00	0.43
5:YX:867:LYS:HA	5:YX:893:ILE:O	2.18	0.43
5:YY:92:SER:OG	5:YY:93:ASP:N	2.51	0.43
5:YY:867:LYS:HA	5:YY:893:ILE:O	2.18	0.43
5:Yc:382:GLU:CD	5:Yc:400:ASP:H	2.24	0.43
5:Yc:548:ILE:HB	5:Yc:552:SER:OG	2.18	0.43
5:Yx:714:TYR:CE2	5:Yx:723:VAL:HG21	2.53	0.43
5:Yy:406:LEU:HD13	5:Yy:413:TRP:CZ2	2.53	0.43
5:Yy:673:GLN:HE21	5:Yy:673:GLN:HB3	1.54	0.43
5:Yy:710:LYS:HG2	8:fS:14:ALA:HB1	1.99	0.43
5:Yy:819:ARG:HH22	6:ac:215:GLU:HG3	1.83	0.43
6:ZD:44:SER:HB3	6:ZD:76:MET:SD	2.58	0.43
6:ZE:136:VAL:HB	6:ZE:162:PRO:HG3	2.00	0.43
6:Za:20:LYS:HB3	6:Zc:20:LYS:HZ2	1.83	0.43
6:Zc:71:MET:SD	6:Zc:273:SER:HB2	2.58	0.43
6:aD:54:VAL:HG23	6:aE:5:SER:HA	2.00	0.43
6:aZ:87:ASP:HB3	6:aZ:209:VAL:HG13	1.99	0.43
6:ab:134:LEU:HB2	6:ab:187:VAL:HG13	2.00	0.43
7:b3:40:GLN:H	7:b3:81:VAL:HG23	1.82	0.43
7:b4:110:TYR:CE1	7:b4:177:GLY:HA3	2.53	0.43
7:b5:159:GLU:HB3	7:b5:163:LEU:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b5:269:PHE:CE2	7:b5:280:ALA:HB1	2.53	0.43
7:b6:413:THR:OG1	7:b6:425:ASN:HB3	2.18	0.43
7:bN:332:GLU:OE1	7:bN:332:GLU:N	2.44	0.43
7:bO:505:LEU:HD22	7:bO:533:TYR:HD2	1.83	0.43
7:bO:518:TYR:CE2	7:bP:6:PRO:HD3	2.53	0.43
7:bP:411:ARG:HG3	7:bP:415:VAL:HG21	1.99	0.43
7:bP:458:TYR:OH	7:bP:463:ASP:OD1	2.29	0.43
7:bR:74:TYR:CD1	7:bR:476:GLY:HA3	2.54	0.43
7:bR:240:SER:OG	7:bR:241:LYS:N	2.51	0.43
7:bR:538:ASP:N	7:bR:538:ASP:OD1	2.50	0.43
7:cA:107:GLY:HA3	7:cA:110:TYR:HE2	1.82	0.43
7:cC:650:ASP:C	7:cC:652:ASP:H	2.25	0.43
7:cF:69:MET:O	7:cF:73:GLN:HG2	2.18	0.43
7:cF:527:GLY:HA2	7:cF:533:TYR:HD1	1.82	0.43
7:cG:108:SER:OG	7:cG:137:ASP:OD2	2.34	0.43
7:cG:120:TYR:HE1	7:cG:166:ASN:HD22	1.66	0.43
7:cH:296:SER:O	7:cH:311:ILE:HG13	2.18	0.43
7:cH:373:PHE:HB2	7:cH:405:VAL:HG22	2.00	0.43
7:cJ:423:VAL:HG13	7:cJ:517:LEU:HD13	2.00	0.43
7:cK:614:THR:C	7:cK:616:SER:H	2.26	0.43
7:cL:110:TYR:CD1	7:cL:177:GLY:HA3	2.53	0.43
7:cO:264:THR:O	7:cO:266:LYS:N	2.51	0.43
7:cO:488:TRP:O	7:cO:552:ASN:ND2	2.51	0.43
7:dT:379:ALA:HA	7:dT:411:ARG:HB2	2.00	0.43
7:dZ:131:ILE:HG21	7:dZ:140:ILE:HG22	2.00	0.43
8:eB:332:LYS:HD3	8:eB:335:THR:HG21	2.00	0.43
8:f9:489:GLN:HA	8:f9:620:THR:HG22	2.00	0.43
8:f9:555:ILE:HB	8:f9:592:ILE:HD13	2.00	0.43
8:fS:397:LYS:HD3	8:fS:397:LYS:HA	1.71	0.43
8:fS:484:MET:HE1	8:fS:503:ASN:HB2	2.00	0.43
8:fU:596:ASN:HD21	8:fU:599:ALA:HB3	1.83	0.43
8:fW:425:ALA:HB2	8:fW:476:ILE:HD13	1.99	0.43
8:fr:81:ARG:HA	8:fr:326:ARG:HD3	2.01	0.43
8:fr:243:ILE:HG12	8:fr:258:GLY:HA3	2.01	0.43
9:gH:18:ARG:HD2	9:gH:76:PRO:O	2.18	0.43
11:h1:132:LEU:HA	11:h1:158:ALA:O	2.19	0.43
11:hJ:140:LEU:HD11	11:hJ:151:GLN:HG2	2.00	0.43
11:hL:75:ASN:ND2	11:hL:151:GLN:OE1	2.48	0.43
11:hM:114:ARG:HB3	11:hM:123:VAL:HG13	2.00	0.43
11:hg:7:THR:HA	11:hg:10:PHE:CE1	2.53	0.43
11:hj:140:LEU:HD13	11:hj:153:PHE:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hm:114:ARG:HB3	11:hm:123:VAL:HG13	2.00	0.43
11:ho:46:VAL:HG22	11:ho:64:ARG:HB2	2.00	0.43
11:hp:61:ALA:HA	11:hq:133:TRP:CH2	2.52	0.43
11:ht:56:ARG:NH1	11:ht:56:ARG:HB3	2.33	0.43
11:hx:45:ILE:HG23	11:hx:65:THR:O	2.18	0.43
12:iC:10:PRO:O	12:iC:12:LEU:N	2.51	0.43
14:k7:141:ARG:HB3	14:k7:142:LYS:H	1.52	0.43
16:o0:140:SER:OG	16:o0:201:GLU:OE1	2.30	0.43
17:q3:200:GLN:OE1	17:q7:99:SER:HB2	2.19	0.43
17:q8:158:LEU:HD21	17:q8:218:MET:SD	2.58	0.43
1:S0:509:GLY:HA3	1:S5:441:GLN:NE2	2.33	0.43
1:S1:213:TYR:HB2	1:S2:203:THR:O	2.18	0.43
1:S1:221:THR:HG23	1:S1:224:TYR:H	1.83	0.43
1:S1:350:ALA:O	1:S2:382:ARG:NH1	2.50	0.43
1:S2:220:SER:HB2	1:S2:228:ILE:HG23	2.00	0.43
1:S3:357:ASP:OD1	1:S3:357:ASP:N	2.51	0.43
1:S4:462:ASN:ND2	1:S8:480:ARG:HD3	2.33	0.43
1:S7:110:VAL:HG12	1:S7:111:ASN:H	1.83	0.43
1:SO:443:SER:H	1:SQ:512:THR:HG1	1.65	0.43
1:Sv:89:ASN:HB2	1:Sv:113:GLU:OE2	2.18	0.43
1:Sv:155:ASP:HA	1:Sz:163:LEU:HB2	2.01	0.43
1:Sy:246:THR:N	1:Sy:249:THR:OG1	2.47	0.43
2:T5:1:MET:HG2	2:T5:70:HIS:CE1	2.53	0.43
2:T5:175:ALA:HB2	2:T5:191:LEU:HA	2.01	0.43
2:T7:5:GLU:OE1	2:T7:33:SER:OG	2.35	0.43
2:T9:188:ASP:OD2	2:T9:257:LYS:NZ	2.37	0.43
2:TF:215:LYS:HG3	2:TF:239:ARG:HG2	1.99	0.43
2:Td:14:GLU:HB3	2:Td:17:ASN:OD1	2.18	0.43
2:Td:203:LEU:HD11	2:Td:279:ILE:HD13	2.00	0.43
2:Te:97:ILE:HG12	2:Te:125:GLN:HB3	2.00	0.43
2:Ti:105:ASP:O	2:Ti:149:ARG:HD3	2.18	0.43
3:UM:4:LEU:HG	4:WK:318:GLN:OE1	2.18	0.43
3:UM:149:HIS:HB3	3:UM:152:ASP:O	2.19	0.43
3:Up:200:THR:N	3:Ur:204:ASP:OD1	2.41	0.43
3:Us:90:PHE:CE1	3:Us:178:ILE:HG23	2.53	0.43
3:VL:4:LEU:HD22	4:XJ:356:TYR:CD2	2.54	0.43
3:Vp:90:PHE:O	3:Vp:154:SER:HB2	2.19	0.43
3:Vq:35:VAL:HG22	3:Vq:62:PHE:HE2	1.83	0.43
3:Vq:86:ASP:OD2	3:Vq:180:GLN:NE2	2.51	0.43
3:Vs:90:PHE:O	3:Vs:154:SER:HB2	2.19	0.43
4:WI:533:PRO:HD2	4:WK:532:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:323:THR:HB	4:WJ:355:ASP:HB3	2.00	0.43
4:WJ:472:TYR:CD1	4:WK:455:PRO:HG3	2.53	0.43
4:Wj:212:PHE:CE1	4:Wj:230:ILE:HB	2.54	0.43
4:Wj:520:GLY:O	4:Wn:591:PRO:HA	2.18	0.43
4:Wk:451:ASP:HA	4:Wk:600:ARG:HH12	1.82	0.43
4:Wk:535:THR:O	4:Wo:576:THR:N	2.48	0.43
4:Wm:329:PHE:HB3	4:Wm:332:VAL:HB	2.00	0.43
4:Wm:460:TYR:HE1	4:Wo:458:THR:HG23	1.83	0.43
4:Wn:23:GLY:O	4:Wn:25:LYS:N	2.41	0.43
4:Wn:313:PHE:HA	4:Wn:381:ILE:HA	1.99	0.43
4:Wo:393:LEU:HG	4:Wo:394:LEU:H	1.83	0.43
4:Wo:422:LEU:HD23	4:Wo:433:VAL:HG22	2.00	0.43
4:XJ:214:SER:HB2	4:XJ:215:PRO:HD2	2.00	0.43
4:XK:115:ASP:OD2	4:XK:137:TYR:OH	2.20	0.43
4:XK:266:LEU:HD23	4:XK:270:LEU:HB3	2.00	0.43
4:Xj:422:LEU:HD21	4:Xn:464:VAL:HG21	2.00	0.43
4:Xl:273:LYS:HE2	4:Xl:280:ILE:HD13	2.01	0.43
4:Xm:320:LEU:HD23	4:Xm:358:VAL:HG23	2.00	0.43
4:Xn:64:TRP:CE2	4:Xn:82:PRO:HG2	2.52	0.43
4:Xn:408:VAL:HG12	4:Xn:409:SER:H	1.83	0.43
4:Xo:192:ARG:HG3	4:Xo:245:GLU:HB2	2.00	0.43
4:Xo:496:ASP:HB3	4:Xo:500:ALA:HB2	2.00	0.43
5:YC:917:LYS:HZ2	5:YC:917:LYS:HB3	1.82	0.43
5:YX:402:GLY:HA3	5:YX:415:ARG:HH21	1.83	0.43
5:YX:449:LYS:HB3	6:Za:73:THR:HG21	2.00	0.43
5:YX:715:LEU:HD11	6:Zb:54:VAL:HG21	2.00	0.43
5:YX:946:SER:C	5:YX:948:THR:H	2.26	0.43
5:YY:189:ARG:HB2	5:YY:203:GLU:OE2	2.17	0.43
5:YY:872:SER:H	5:YY:894:THR:HG21	1.82	0.43
5:Yc:425:ARG:CZ	5:Yc:449:LYS:HE2	2.48	0.43
5:Yc:925:LEU:N	5:Yc:926:PRO:HD3	2.33	0.43
5:Yx:78:TYR:HB2	5:Yx:100:PHE:CZ	2.54	0.43
5:Yx:350:PHE:HD1	5:Yx:350:PHE:HA	1.73	0.43
5:Yx:493:ASP:HB3	5:Yx:504:GLN:OE1	2.18	0.43
5:Yy:853:ASP:OD1	5:Yy:853:ASP:N	2.49	0.43
5:Yy:867:LYS:HA	5:Yy:893:ILE:O	2.19	0.43
6:ZD:274:ILE:HD11	6:ZD:330:ILE:HD12	2.01	0.43
6:ZD:292:ALA:HB1	6:ZD:297:TYR:CE2	2.53	0.43
7:b3:281:ILE:HG13	7:b3:295:LEU:HD12	2.00	0.43
7:b4:373:PHE:HB2	7:b4:405:VAL:HG22	2.00	0.43
7:b5:484:VAL:HG13	7:b5:485:SER:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b7:556:LEU:HD23	7:b7:560:LEU:HD13	2.00	0.43
7:bP:332:GLU:OE1	7:bP:332:GLU:N	2.43	0.43
7:bQ:31:GLY:HA3	7:bQ:64:TYR:CD2	2.53	0.43
7:bR:455:LYS:NZ	7:bR:473:ASP:OD2	2.50	0.43
7:bY:220:PRO:HD2	7:bY:338:LEU:HD21	2.00	0.43
7:bY:639:THR:O	7:dZ:624:VAL:HA	2.18	0.43
7:cA:572:LEU:O	7:cA:573:PHE:C	2.61	0.43
7:cB:451:ASP:OD2	7:cB:470:LEU:HB3	2.19	0.43
7:cE:110:TYR:H	7:cE:138:GLY:HA3	1.83	0.43
7:cH:510:ARG:HG2	7:cH:511:GLN:N	2.33	0.43
7:cJ:406:LEU:HD22	7:cJ:474:ILE:HG13	2.00	0.43
7:cK:441:PHE:CZ	7:cK:443:ILE:HD11	2.53	0.43
7:cL:120:TYR:CE2	7:cL:157:VAL:HG11	2.53	0.43
7:cL:304:ILE:H	7:cL:304:ILE:HG13	1.61	0.43
7:cM:351:THR:OG1	7:cM:352:ALA:N	2.52	0.43
7:cM:478:CYS:O	7:cM:555:ARG:NH1	2.49	0.43
7:cO:426:LEU:HD23	7:cO:426:LEU:HA	1.87	0.43
7:dT:642:PHE:CE1	15:mT:108:ILE:HD12	2.54	0.43
7:dU:515:ASP:OD1	7:dV:7:GLY:HA3	2.18	0.43
7:dV:37:PRO:HG3	7:dV:226:TYR:CZ	2.53	0.43
7:dV:293:VAL:HG21	7:dV:314:PHE:CZ	2.53	0.43
8:eW:178:ILE:HD12	8:eW:266:SER:O	2.18	0.43
8:eW:518:ASN:OD1	8:eW:518:ASN:N	2.51	0.43
8:f9:80:MET:C	8:f9:82:THR:H	2.26	0.43
8:fA:242:GLU:OE1	8:fA:243:ILE:N	2.50	0.43
8:fR:123:ILE:HD13	8:fR:123:ILE:HA	1.88	0.43
8:fR:227:ARG:NE	8:fR:235:GLU:OE2	2.45	0.43
8:fR:472:ASP:O	8:fR:474:SER:N	2.50	0.43
8:fR:508:ARG:NH1	8:fR:576:ASP:O	2.42	0.43
8:fS:82:THR:O	14:k4:15:THR:HG21	2.19	0.43
8:fU:134:TYR:CZ	8:fU:142:PRO:HG3	2.53	0.43
8:fU:452:VAL:HG21	8:fU:459:PHE:HD1	1.83	0.43
8:fW:116:ASP:OD1	8:fW:118:LEU:N	2.52	0.43
9:gE:2:GLU:O	9:gE:4:ILE:HG13	2.18	0.43
9:gE:176:MET:HE3	9:gE:180:LEU:HD22	2.00	0.43
9:gE:490:VAL:HA	9:gG:482:VAL:HG13	2.00	0.43
11:he:61:ALA:HA	11:hf:133:TRP:CH2	2.53	0.43
11:hj:54:MET:HE3	11:hp:20:LEU:HA	2.00	0.43
11:hm:63:ASP:OD2	11:hs:147:ASN:ND2	2.52	0.43
11:hq:58:ILE:H	11:hq:58:ILE:HD13	1.83	0.43
11:hs:17:ARG:HB2	11:hs:20:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iD:178:LEU:HD23	12:iD:178:LEU:HA	1.87	0.43
12:iF:248:MET:HE3	12:iF:248:MET:HB2	1.88	0.43
12:iF:321:GLY:N	12:iF:339:VAL:O	2.51	0.43
15:nT:94:ASN:ND2	15:nT:107:GLU:OE2	2.51	0.43
16:o0:174:LEU:H	16:o0:174:LEU:HD22	1.82	0.43
16:o6:143:PHE:CE2	16:o6:197:TYR:HB2	2.53	0.43
16:pA:32:LYS:O	16:pA:33:THR:OG1	2.28	0.43
16:pB:33:THR:HG22	16:pB:35:THR:HG23	2.00	0.43
16:pB:150:LEU:HD12	16:pB:150:LEU:HA	1.74	0.43
1:S1:469:VAL:HG11	1:S2:482:TYR:CE2	2.54	0.43
1:S2:102:THR:HG23	1:S2:104:ASP:H	1.83	0.43
1:S2:493:GLU:HG3	1:S2:496:ARG:HH21	1.84	0.43
1:S3:272:GLN:NE2	1:S3:277:ALA:HA	2.33	0.43
1:S5:417:ASN:HA	1:S5:423:PRO:HA	1.99	0.43
1:S6:132:ARG:HH21	1:S6:138:SER:HB3	1.84	0.43
1:SA:57:ILE:HG12	1:Sw:57:ILE:HG12	2.00	0.43
1:SO:176:ILE:HG12	1:SO:177:ALA:N	2.34	0.43
1:SP:161:THR:O	1:SP:165:THR:OG1	2.32	0.43
1:SQ:145:SER:HB3	1:SQ:158:THR:HG23	2.00	0.43
1:Sx:60:ILE:HG13	1:Sx:75:ALA:O	2.18	0.43
1:Sx:146:SER:HB2	1:Sx:149:GLN:HG2	2.01	0.43
2:T2:112:SER:HA	2:T2:167:MET:HE1	2.00	0.43
2:T5:231:ILE:HG22	2:T9:238:MET:SD	2.59	0.43
2:T7:44:ASP:OD1	2:T7:46:ARG:NE	2.38	0.43
2:T7:86:ASP:HA	2:T7:110:ILE:HG13	2.00	0.43
2:Te:1:MET:HG2	2:Te:70:HIS:CE1	2.53	0.43
3:UL:120:MET:HE1	3:UL:128:LYS:HE3	2.00	0.43
3:UM:9:GLY:O	3:UM:11:ILE:HG13	2.18	0.43
3:UN:55:ALA:O	3:UN:59:VAL:HG23	2.18	0.43
3:Up:4:LEU:HD13	4:Wl:356:TYR:CE2	2.53	0.43
3:VM:87:TYR:HE1	3:VM:157:GLU:HB2	1.83	0.43
3:Vq:160:TYR:CZ	3:Vu:40:ILE:HG21	2.53	0.43
3:Vr:127:ALA:HA	3:Vr:130:ARG:HH11	1.83	0.43
3:Vs:9:GLY:O	3:Vs:11:ILE:HG13	2.19	0.43
4:WI:192:ARG:HB2	4:WI:245:GLU:O	2.19	0.43
4:WI:455:PRO:O	4:WI:458:THR:OG1	2.26	0.43
4:WI:568:LYS:NZ	4:WJ:551:ILE:HG23	2.33	0.43
4:WJ:1:MET:H3	4:WK:41:ASP:HB3	1.84	0.43
4:Wj:195:HIS:C	4:Wj:197:GLY:H	2.25	0.43
4:Wj:265:LEU:HG	4:Wj:379:ASP:HB2	2.00	0.43
4:Wj:372:ASP:OD1	4:Wj:372:ASP:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wj:419:ASP:HB3	4:Wj:436:VAL:HB	1.99	0.43
4:Wj:477:SER:HB2	4:Wj:602:ALA:HB3	2.01	0.43
4:Wj:590:GLN:HG2	4:Wn:590:GLN:NE2	2.33	0.43
4:Wk:180:VAL:HG13	4:Wk:181:PHE:N	2.33	0.43
4:Wk:288:MET:HG2	4:Wk:289:LYS:O	2.18	0.43
4:Wk:588:ASN:C	4:Wm:588:ASN:HD21	2.27	0.43
4:Wl:12:ASP:OD2	5:YX:985:GLU:N	2.52	0.43
4:Wl:255:ARG:NH2	4:Wn:249:ASP:HB2	2.33	0.43
4:Wl:361:ASP:H	4:Wl:366:PRO:HA	1.83	0.43
4:Wm:60:LEU:HD21	4:Wm:79:ILE:HG22	2.00	0.43
4:Wm:89:TYR:HA	4:Wm:137:TYR:HB3	2.00	0.43
4:Wo:159:ILE:HD13	4:Wo:159:ILE:HA	1.87	0.43
4:XI:266:LEU:HA	4:XI:377:HIS:O	2.18	0.43
4:XI:554:GLY:O	4:XK:555:CYS:HB2	2.19	0.43
4:XJ:361:ASP:HB3	4:XJ:362:GLU:CD	2.44	0.43
4:XK:289:LYS:HD2	4:XK:372:ASP:HB3	1.99	0.43
4:XK:323:THR:HB	4:XK:355:ASP:HB3	1.99	0.43
4:Xj:7:ILE:HG12	4:XI:24:ILE:N	2.32	0.43
4:Xj:160:SER:H	4:XI:161:ASN:ND2	2.16	0.43
4:Xj:180:VAL:HG13	4:Xj:181:PHE:N	2.34	0.43
4:Xj:531:ASN:ND2	4:Xn:584:THR:O	2.51	0.43
4:Xk:9:ASN:HA	4:Xm:20:ARG:HE	1.83	0.43
4:Xk:117:ILE:HG23	4:Xk:143:TRP:HE3	1.83	0.43
4:Xm:89:TYR:CE1	4:Xm:139:ALA:HA	2.53	0.43
4:Xm:130:PHE:HD2	4:Xm:151:ILE:HG12	1.83	0.43
4:Xm:206:PHE:CD1	4:Xm:223:VAL:HA	2.54	0.43
4:Xn:213:GLY:H	4:Xn:232:LEU:HA	1.83	0.43
4:Xn:311:VAL:HB	4:Xn:383:ILE:HD13	2.01	0.43
4:Xo:12:ASP:OD1	5:Yy:957:PRO:HG2	2.18	0.43
5:YC:19:ASN:HA	5:YC:71:ASP:O	2.19	0.43
5:YC:489:ALA:HB3	5:YC:506:MET:O	2.19	0.43
5:YC:658:LEU:O	5:YC:665:GLU:HB2	2.17	0.43
5:YC:919:TYR:CZ	5:YC:1005:ARG:HB2	2.54	0.43
5:YX:369:ASP:OD1	5:YX:436:THR:OG1	2.21	0.43
5:YY:46:GLY:HA3	5:YY:49:LEU:HB2	2.00	0.43
5:YY:110:PHE:HD2	5:YY:619:LEU:HD11	1.84	0.43
5:Yc:180:ILE:HG13	5:Yc:201:LEU:HD13	2.00	0.43
5:Yc:585:MET:HE3	5:Yc:600:PHE:HE2	1.83	0.43
5:Yc:899:PHE:CE1	6:aE:331:LEU:HD12	2.53	0.43
5:Yx:248:LEU:HD11	5:Yx:308:ALA:O	2.18	0.43
5:Yx:793:CYS:SG	5:Yx:820:LEU:HD11	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:467:LEU:HD23	5:Yy:470:ALA:HB2	1.99	0.43
5:Yy:538:ASP:OD1	5:Yy:538:ASP:N	2.49	0.43
6:ZD:270:ARG:CZ	6:ZD:317:PRO:HB3	2.48	0.43
6:Zb:51:GLU:HA	6:Zb:56:PHE:CD2	2.53	0.43
6:aZ:135:ASP:OD1	6:aZ:136:VAL:N	2.52	0.43
7:b0:44:VAL:HG11	7:b0:50:LEU:HB2	2.01	0.43
7:b3:106:PRO:HB2	7:b3:139:LYS:HD2	2.01	0.43
7:b4:57:PRO:O	7:b4:462:ASN:ND2	2.52	0.43
7:b4:494:TYR:CE1	7:b9:569:LYS:HG3	2.53	0.43
7:b5:455:LYS:HE3	7:b5:470:LEU:CD1	2.48	0.43
7:b5:550:ARG:HB3	7:b5:553:VAL:HG12	1.99	0.43
7:b6:31:GLY:HA3	7:b6:64:TYR:CD2	2.53	0.43
7:b6:135:ASP:HB3	7:b6:139:LYS:HB2	2.01	0.43
7:b6:518:TYR:CE2	7:b7:6:PRO:HD3	2.54	0.43
7:b7:411:ARG:O	7:b7:415:VAL:HB	2.18	0.43
7:bP:34:GLN:O	7:bP:82:ARG:NH2	2.52	0.43
7:bP:269:PHE:CE2	7:bP:280:ALA:HB1	2.52	0.43
7:bQ:118:VAL:HG22	7:bQ:169:ALA:HB2	2.00	0.43
7:cB:116:ILE:HD13	7:cB:171:ILE:HG23	2.00	0.43
7:cC:384:GLU:HG2	7:cC:439:ASN:OD1	2.17	0.43
7:cG:614:THR:C	7:cG:616:SER:H	2.27	0.43
7:cI:429:TRP:CZ2	7:cI:441:PHE:HB2	2.53	0.43
7:cK:209:ASP:OD1	7:cK:210:PHE:N	2.52	0.43
7:cM:209:ASP:OD1	7:cM:209:ASP:N	2.51	0.43
7:dT:379:ALA:O	7:dT:381:GLU:HG2	2.18	0.43
7:dT:637:TYR:HB2	15:mT:103:THR:HG22	2.00	0.43
7:dZ:494:TYR:O	7:dZ:498:GLN:NE2	2.42	0.43
8:eB:80:MET:HE3	8:eB:326:ARG:HA	2.01	0.43
8:eB:494:THR:HG21	8:eB:603:TYR:HA	2.00	0.43
8:eU:544:ASP:OD1	8:eU:545:ARG:N	2.51	0.43
8:eW:80:MET:O	8:eW:81:ARG:HB2	2.19	0.43
8:eW:227:ARG:HD3	8:eW:235:GLU:OE1	2.19	0.43
8:eW:392:ILE:HD13	8:eW:408:ILE:HG12	1.99	0.43
8:f9:538:VAL:HB	8:f9:556:GLY:HA3	2.01	0.43
8:fA:292:LEU:HB3	8:fA:295:ILE:HD12	2.00	0.43
8:fA:447:TYR:HB2	8:fA:467:TYR:CG	2.53	0.43
8:fA:532:GLU:H	8:fA:532:GLU:HG2	1.65	0.43
8:fB:227:ARG:NH1	8:fB:229:THR:HG22	2.33	0.43
8:fW:113:THR:O	8:fW:298:ILE:HG12	2.18	0.43
8:fW:412:ASN:N	8:fW:637:GLY:O	2.51	0.43
8:fr:154:ILE:H	8:fr:154:ILE:HG13	1.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fr:448:TYR:CD2	8:fr:642:PHE:HB2	2.52	0.43
8:fr:536:TYR:HB2	8:fr:586:ARG:NH2	2.33	0.43
8:fr:543:THR:CG2	8:fr:552:LYS:H	2.27	0.43
11:hf:48:LYS:HB2	11:hg:133:TRP:CZ2	2.53	0.43
11:hk:51:VAL:HG12	11:hq:150:ILE:HD13	2.00	0.43
11:ht:106:GLU:O	11:ht:109:LYS:NZ	2.51	0.43
11:hu:39:THR:HG22	11:hu:71:VAL:HG22	1.98	0.43
11:hw:39:THR:HG22	11:hw:71:VAL:HG13	2.01	0.43
11:hw:49:ILE:HG13	11:hw:60:VAL:HG12	1.99	0.43
12:iC:313:ILE:O	12:iC:352:VAL:HA	2.19	0.43
12:iD:290:ASN:O	12:iD:292:TYR:N	2.50	0.43
14:k3:170:LYS:HE3	15:m6:117:ASP:HB3	2.00	0.43
14:k8:59:LEU:HG	14:k8:63:ILE:HD13	2.00	0.43
15:m5:10:ASP:OD1	15:m5:11:ILE:N	2.51	0.43
16:o0:231:TYR:CD2	16:o0:250:LEU:HD21	2.53	0.43
16:o1:131:ARG:HD3	16:pB:329:PHE:CE1	2.54	0.43
17:q5:215:MET:HE2	17:q5:215:MET:HB2	1.73	0.43
17:q7:215:MET:HB2	17:q7:215:MET:HE2	1.61	0.43
1:S0:121:PHE:HZ	1:S5:125:LEU:HB2	1.82	0.43
1:S0:210:ILE:HG22	1:S7:210:ILE:O	2.18	0.43
1:S2:5:THR:HG21	4:XJ:200:LEU:HB2	2.00	0.43
1:S2:100:TYR:H	1:S3:92:GLU:HA	1.83	0.43
1:S4:251:ASN:HB2	1:S6:253:ARG:HH22	1.84	0.43
1:S4:493:GLU:CD	1:S4:493:GLU:H	2.27	0.43
1:S6:160:MET:HE2	1:S6:165:THR:HG21	2.00	0.43
1:S6:220:SER:HB2	1:S6:228:ILE:HG23	2.00	0.43
1:SO:386:ASN:OD1	1:SO:389:ASN:N	2.48	0.43
1:SO:493:GLU:HA	1:SO:496:ARG:HH21	1.82	0.43
1:Sv:160:MET:SD	1:Sz:165:THR:HG21	2.59	0.43
1:Sv:511:GLU:CD	1:Sv:513:ARG:HD3	2.42	0.43
1:Sy:423:PRO:HB3	1:Sy:427:VAL:HG21	2.00	0.43
1:Sz:144:ILE:HD13	1:Sz:144:ILE:HA	1.86	0.43
2:T6:85:HIS:HB2	2:T6:109:PHE:CD1	2.52	0.43
2:T9:50:VAL:HG12	2:T9:51:ALA:H	1.83	0.43
2:T9:98:ILE:O	2:T9:127:ILE:HG12	2.18	0.43
2:TF:231:ILE:HD13	2:TH:240:VAL:HG22	2.00	0.43
2:Th:1:MET:HG2	2:Th:70:HIS:CE1	2.53	0.43
2:Th:1:MET:HG2	2:Th:70:HIS:ND1	2.33	0.43
3:UL:110:PHE:C	3:UN:44:ALA:HA	2.44	0.43
3:UL:126:VAL:HG12	3:UL:130:ARG:NH1	2.33	0.43
3:UN:102:GLY:HA2	3:UN:117:THR:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Up:23:LYS:HB3	3:Up:26:ASP:HB2	1.99	0.43
3:Uq:10:VAL:HG13	3:Us:13:ARG:HG3	2.00	0.43
3:Ur:87:TYR:HE1	3:Ur:157:GLU:HB2	1.83	0.43
3:Ut:130:ARG:HE	3:Ut:148:ASP:CG	2.26	0.43
3:Uu:163:ASN:OD1	3:Uu:163:ASN:N	2.45	0.43
3:Vp:193:TRP:CZ3	3:Vp:217:ARG:HB2	2.53	0.43
4:Wl:418:GLY:HA2	4:Wk:467:ASN:HD22	1.84	0.43
4:Wj:7:ILE:HD11	4:Wk:24:ILE:HG13	2.00	0.43
4:Wj:468:ASN:HB3	4:Wj:471:THR:HG23	1.99	0.43
4:Wj:492:GLU:O	4:Wj:514:HIS:NE2	2.42	0.43
4:Wk:111:ALA:HB1	4:Wk:143:TRP:HZ3	1.83	0.43
4:Wj:92:VAL:HG23	4:Wl:46:ALA:HB1	2.00	0.43
4:Wj:119:GLY:HA2	4:Wj:404:ASP:CG	2.43	0.43
4:Wj:166:GLU:N	4:Wj:166:GLU:OE1	2.52	0.43
4:Wk:99:PHE:HB3	4:Wo:139:ALA:H	1.82	0.43
4:Wl:293:PHE:CD2	4:Wl:298:LEU:HD11	2.51	0.43
4:Wm:165:LYS:NZ	4:Wm:181:PHE:HA	2.31	0.43
4:Wn:111:ALA:HB1	4:Wn:143:TRP:HZ3	1.83	0.43
4:Wn:428:ILE:HG21	4:Wn:599:ILE:HD13	2.01	0.43
4:Wo:398:GLU:N	4:Wo:398:GLU:OE1	2.52	0.43
4:Xi:30:PHE:O	4:Xi:34:TYR:HB2	2.18	0.43
4:Xi:361:ASP:N	4:Xi:365:ILE:O	2.51	0.43
4:Xj:265:LEU:O	4:Xj:378:GLY:HA2	2.19	0.43
4:Xk:49:TRP:CZ3	4:Xk:96:ARG:HD2	2.54	0.43
4:Xm:117:ILE:H	4:Xm:117:ILE:HG13	1.40	0.43
4:Xm:180:VAL:HG12	4:Xm:228:PHE:O	2.17	0.43
4:Xo:164:ARG:HB2	4:Xo:245:GLU:HG2	2.00	0.43
5:Yc:826:VAL:HG13	5:Yc:838:ILE:HD11	2.00	0.43
5:Yc:910:GLU:HG2	6:ZD:331:LEU:HD12	2.00	0.43
5:Yc:1025:PRO:O	5:Yc:1026:THR:HG22	2.18	0.43
5:Yx:494:GLU:HG3	5:Yx:498:TRP:CE3	2.54	0.43
5:Yx:759:GLU:HB2	5:Yx:865:LYS:HB3	2.00	0.43
5:Yy:180:ILE:HD11	5:Yy:532:ALA:HB2	2.00	0.43
5:Yy:584:GLY:HA2	5:Yy:600:PHE:HB2	2.00	0.43
5:Yc:59:LEU:HD13	5:Yc:67:PHE:CE2	2.53	0.43
5:Yc:201:LEU:HD23	5:Yc:210:LYS:HB2	2.01	0.43
5:Yc:472:LYS:NZ	5:Yc:473:TYR:O	2.37	0.43
5:Yc:691:ARG:HG3	8:fB:230:ILE:HD13	1.99	0.43
5:Yc:796:THR:HB	5:Yc:814:HIS:HD2	1.83	0.43
5:Yc:924:GLY:HA3	5:Yc:969:TYR:OH	2.17	0.43
5:Yx:15:LYS:HB3	5:Yx:22:GLN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:118:LEU:HD11	5:Yx:619:LEU:HD13	2.00	0.43
5:Yx:180:ILE:HG13	5:Yx:201:LEU:HD13	2.01	0.43
5:Yy:98:GLU:O	5:Yy:99:GLU:HG2	2.19	0.43
5:Yy:103:PHE:CE1	5:Yy:626:GLN:HB2	2.54	0.43
5:Yy:205:TYR:CE1	5:Yy:231:TYR:HB2	2.53	0.43
5:Yy:350:PHE:HD1	5:Yy:350:PHE:HA	1.69	0.43
5:Yy:587:PHE:O	5:Yy:595:ILE:HG12	2.19	0.43
5:Yy:684:ASN:OD1	5:Yy:688:ASN:ND2	2.52	0.43
6:aa:71:MET:HG2	6:aa:309:MET:HE1	1.99	0.43
6:ac:205:ASN:OD1	6:ac:205:ASN:N	2.46	0.43
7:b0:572:LEU:HD23	7:b0:572:LEU:HA	1.86	0.43
7:b3:402:ASP:O	7:b3:558:ASN:ND2	2.51	0.43
7:b5:412:GLU:OE1	7:b5:412:GLU:N	2.46	0.43
7:bO:115:LYS:HA	7:bO:129:GLY:O	2.18	0.43
7:bO:198:ILE:HG23	7:bO:324:PHE:HE2	1.83	0.43
7:bQ:72:LEU:HD13	7:bQ:72:LEU:HA	1.85	0.43
7:bQ:561:LYS:HG2	7:cO:642:PHE:CE1	2.53	0.43
7:bR:561:LYS:HB3	7:cH:10:LEU:HD13	1.99	0.43
7:bY:94:PRO:HD3	7:bY:222:VAL:O	2.19	0.43
7:cA:427:VAL:O	7:cA:431:THR:OG1	2.27	0.43
7:cB:102:THR:N	7:cB:183:THR:O	2.50	0.43
7:cB:332:GLU:OE1	7:cB:332:GLU:N	2.51	0.43
7:cB:654:LEU:HD23	7:cB:654:LEU:HA	1.87	0.43
7:cD:538:ASP:O	7:cD:550:ARG:HG3	2.18	0.43
7:cE:221:GLY:O	7:cE:325:ALA:HA	2.18	0.43
7:cG:572:LEU:HD12	7:cG:572:LEU:HA	1.63	0.43
7:cJ:527:GLY:HA2	7:cJ:533:TYR:CD2	2.54	0.43
7:cK:205:MET:HE2	7:cK:205:MET:HB3	1.85	0.43
7:cK:451:ASP:CG	7:cK:452:GLY:H	2.26	0.43
7:cK:570:TYR:HD1	7:cK:570:TYR:HA	1.71	0.43
7:cL:220:PRO:HG2	7:cL:338:LEU:HD11	1.99	0.43
7:cO:114:ASP:N	7:cO:114:ASP:OD1	2.51	0.43
7:cP:44:VAL:HG11	7:cP:50:LEU:HB2	2.00	0.43
7:dS:409:PRO:CG	7:dS:426:LEU:HD21	2.49	0.43
7:dU:458:TYR:OH	7:dU:463:ASP:OD1	2.34	0.43
7:dZ:130:LYS:HE3	7:dZ:130:LYS:HB2	1.84	0.43
7:dZ:400:ARG:NH1	7:dZ:403:CYS:SG	2.91	0.43
7:dZ:451:ASP:OD2	7:dZ:470:LEU:HB3	2.18	0.43
7:dZ:505:LEU:HD21	7:dZ:525:VAL:HG12	2.01	0.43
8:eW:130:ARG:H	8:eW:290:ASP:HB2	1.83	0.43
8:f9:252:LEU:H	8:f9:252:LEU:HG	1.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f9:443:LYS:HA	8:f9:443:LYS:HD2	1.77	0.43
8:fA:45:ASP:OD1	8:fA:45:ASP:N	2.40	0.43
8:fA:449:THR:HA	8:fA:453:GLU:HG3	1.99	0.43
8:fB:37:LEU:HD23	8:fB:37:LEU:HA	1.88	0.43
8:fB:510:MET:HE3	8:fB:623:LEU:HD11	1.99	0.43
8:fR:175:THR:HB	8:fR:270:ILE:HG23	2.00	0.43
8:fR:419:ASN:O	8:fR:480:ALA:HA	2.19	0.43
8:fr:658:ILE:HD13	8:fr:658:ILE:HA	1.90	0.43
8:fs:192:ILE:HG22	8:fs:272:TYR:CE2	2.53	0.43
9:gE:285:GLY:O	9:gE:289:VAL:HG23	2.17	0.43
11:hX:67:ASP:OD1	11:hX:67:ASP:N	2.45	0.43
11:hj:104:PRO:O	11:hj:108:LYS:HB2	2.18	0.43
11:hj:118:ARG:HA	11:hj:118:ARG:HD2	1.84	0.43
11:hk:49:ILE:HG12	11:hk:60:VAL:O	2.19	0.43
11:hn:56:ARG:NH1	11:hu:66:PHE:HE1	2.17	0.43
11:hq:25:ILE:HG23	11:hq:111:ALA:HB2	2.01	0.43
12:iC:345:GLU:HB2	12:iC:352:VAL:HG12	2.01	0.43
12:iD:15:LYS:HB3	12:iD:15:LYS:HE2	1.73	0.43
14:IV:57:GLU:HG2	14:IV:58:GLU:N	2.33	0.43
15:m1:57:LEU:HD11	15:m1:73:VAL:HG13	2.00	0.43
15:m5:94:ASN:ND2	15:m5:107:GLU:OE2	2.49	0.43
16:o0:247:LYS:HG3	16:o0:248:GLY:H	1.83	0.43
16:pA:33:THR:HG22	16:pA:35:THR:HG23	2.01	0.43
17:q4:97:VAL:HG12	17:q4:104:PHE:HB2	2.00	0.43
17:q9:18:ARG:HA	17:q9:18:ARG:HD3	1.69	0.43
1:S0:100:TYR:CE2	1:S0:115:SER:HB2	2.54	0.43
1:S0:397:GLY:O	1:S5:401:ARG:NH2	2.44	0.43
1:S1:96:GLY:N	1:S3:97:LEU:HB3	2.34	0.43
1:S1:412:PRO:CG	1:S5:87:TYR:HA	2.49	0.43
1:S3:5:THR:HA	4:XJ:196:ARG:HD2	2.00	0.43
1:S4:442:MET:HE3	1:S8:507:LEU:HD11	2.01	0.43
1:S4:464:ARG:HA	1:S8:480:ARG:NH1	2.33	0.43
1:S5:110:VAL:HG12	1:S5:111:ASN:H	1.82	0.43
1:SO:39:ILE:HD13	1:SQ:39:ILE:HD13	1.99	0.43
1:SO:315:ILE:HG23	1:SQ:308:ILE:HD12	2.01	0.43
1:SO:433:TYR:CE1	1:SO:436:GLU:HB2	2.54	0.43
1:SP:61:PRO:HD3	1:SP:74:LYS:HB3	1.99	0.43
1:SP:447:HIS:HB3	1:SQ:484:THR:HB	1.99	0.43
1:SP:481:SER:OG	1:SQ:449:GLY:O	2.35	0.43
1:SP:515:TRP:CH2	1:SQ:439:ILE:HG23	2.54	0.43
1:SQ:77:THR:HG23	1:SQ:79:ALA:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SQ:363:HIS:CG	1:SQ:396:ARG:HD3	2.53	0.43
1:Sv:132:ARG:NH2	1:Sv:139:ASN:O	2.52	0.43
1:Sv:263:VAL:HG11	1:Sz:265:LEU:HD21	2.01	0.43
2:T1:131:LYS:HD3	2:T1:161:ASN:CG	2.43	0.43
2:T2:172:GLU:HA	2:T3:166:SER:H	1.83	0.43
2:T2:193:HIS:HB3	2:T2:196:GLU:HG3	2.00	0.43
2:TF:14:GLU:O	2:TF:16:GLY:N	2.51	0.43
2:TH:17:ASN:OD1	2:TH:18:ALA:N	2.51	0.43
2:TH:102:GLU:HA	2:TH:153:SER:HB3	2.00	0.43
2:Td:202:LEU:HB3	2:Td:278:VAL:HG22	2.01	0.43
2:Te:17:ASN:OD1	2:Te:18:ALA:N	2.52	0.43
3:UM:16:ASP:N	3:UM:16:ASP:OD1	2.51	0.43
3:Uq:4:LEU:HD13	4:Wm:356:TYR:HE2	1.83	0.43
3:Uq:28:ASP:OD2	3:Us:64:ILE:HG13	2.18	0.43
3:Us:35:VAL:HG13	3:Us:58:ASP:HB2	1.99	0.43
3:Ut:47:PHE:CE2	3:Ut:51:ASN:HB3	2.54	0.43
3:VL:7:LYS:HG3	4:XJ:316:ILE:HG21	2.01	0.43
3:VN:84:GLN:NE2	3:VN:86:ASP:OD2	2.52	0.43
3:Vp:40:ILE:HD12	3:Vp:43:LEU:HB2	2.01	0.43
3:Vp:126:VAL:O	3:Vp:130:ARG:HG3	2.18	0.43
3:Vq:87:TYR:HE1	3:Vq:157:GLU:HB2	1.82	0.43
3:Vq:111:GLY:HA3	3:Vu:43:LEU:O	2.18	0.43
3:Vt:40:ILE:HA	3:Vt:43:LEU:HD12	2.00	0.43
4:WI:2:LYS:HB2	4:WJ:41:ASP:HA	2.01	0.43
4:WJ:165:LYS:HZ2	4:WJ:181:PHE:HA	1.84	0.43
4:WK:32:GLU:O	4:WK:36:GLU:HG2	2.19	0.43
4:Wj:213:GLY:O	4:Wj:214:SER:OG	2.33	0.43
4:Wj:263:ILE:HB	4:Wj:296:PHE:CE1	2.54	0.43
4:Wj:481:PHE:CZ	4:Wn:593:ILE:HD13	2.53	0.43
4:Wj:506:LEU:HB3	4:Wj:510:GLY:HA2	2.00	0.43
4:Wj:558:ASP:CG	4:Wj:559:PRO:HD3	2.43	0.43
4:Wl:458:THR:O	4:Wl:599:ILE:HA	2.18	0.43
4:Wl:576:THR:N	4:Wn:535:THR:O	2.50	0.43
4:Wm:147:LYS:NZ	4:Wo:154:ILE:O	2.51	0.43
4:Wo:102:TRP:CE3	4:Wo:131:SER:HB2	2.54	0.43
4:XI:265:LEU:O	4:XI:378:GLY:HA2	2.18	0.43
4:XJ:20:ARG:HB3	5:Yc:1003:GLN:HG3	2.00	0.43
4:XJ:49:TRP:HZ3	4:XJ:96:ARG:HD2	1.84	0.43
4:Xj:407:TYR:OH	4:Xn:403:THR:HA	2.17	0.43
4:Xj:454:TYR:HD1	4:Xj:458:THR:HG21	1.84	0.43
4:Xk:2:LYS:HB2	4:Xm:41:ASP:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xk:78:THR:HA	4:Xk:108:THR:HB	2.00	0.43
4:Xk:185:SER:OG	4:Xk:186:TYR:N	2.52	0.43
4:Xk:256:SER:HB2	4:Xm:390:LEU:HD23	2.00	0.43
4:Xk:359:GLU:HB3	4:Xk:370:HIS:HB3	2.00	0.43
4:Xk:568:LYS:NZ	4:Xm:551:ILE:HG23	2.33	0.43
4:Xl:425:PHE:HD2	4:Xl:601:ILE:HD12	1.84	0.43
4:Xm:326:MET:HB2	4:Xm:326:MET:HE3	1.65	0.43
4:Xm:500:ALA:O	4:Xm:514:HIS:ND1	2.51	0.43
4:Xn:398:GLU:N	4:Xn:398:GLU:OE1	2.52	0.43
5:YC:189:ARG:HB2	5:YC:203:GLU:OE2	2.18	0.43
5:YC:642:ASP:OD1	5:YC:687:ARG:NH1	2.51	0.43
5:YC:934:ALA:HB1	5:YC:942:ILE:HD12	2.00	0.43
5:YX:174:HIS:HA	5:YX:535:VAL:HA	2.01	0.43
5:Yc:189:ARG:HG2	5:Yc:204:ARG:NH2	2.34	0.43
5:Yc:479:TRP:CD2	5:Yc:505:PRO:HA	2.53	0.43
5:Yx:328:TYR:OH	5:Yx:409:ASP:OD2	2.26	0.43
5:Yx:1025:PRO:O	5:Yx:1026:THR:HG22	2.19	0.43
5:Yy:600:PHE:O	5:Yy:602:TYR:N	2.51	0.43
5:Yy:632:TRP:NE1	5:Yy:634:PRO:HD3	2.34	0.43
5:Yy:867:LYS:HG2	5:Yy:893:ILE:HB	2.01	0.43
6:ZE:280:GLU:OE2	6:ZE:292:ALA:HA	2.19	0.43
6:ZZ:95:TRP:H	6:ZZ:120:ASN:HD21	1.66	0.43
6:Za:46:PRO:HG3	6:Za:267:LYS:HD2	2.01	0.43
6:Za:114:CYS:HA	6:Za:120:ASN:ND2	2.34	0.43
6:Za:232:GLN:CD	6:Za:232:GLN:H	2.26	0.43
6:aZ:178:GLY:O	6:aZ:189:GLU:HA	2.19	0.43
7:b0:72:LEU:HD12	7:b0:72:LEU:HA	1.83	0.43
7:b0:302:LYS:HD3	7:b0:302:LYS:HA	1.86	0.43
7:b3:247:GLY:HA2	7:b3:266:LYS:HG3	1.99	0.43
7:b4:143:ILE:HD12	7:b4:145:ILE:HD11	2.00	0.43
7:b5:478:CYS:O	7:b5:555:ARG:NH1	2.50	0.43
7:b6:572:LEU:HD12	7:b6:572:LEU:HA	1.74	0.43
7:bN:198:ILE:HD11	7:bN:225:LEU:HD11	2.00	0.43
7:bN:561:LYS:HG2	7:cL:642:PHE:CE2	2.53	0.43
7:bQ:560:LEU:O	7:bQ:564:ILE:HG12	2.18	0.43
7:bR:152:ALA:O	7:bR:156:GLU:HG2	2.17	0.43
7:bR:379:ALA:HB2	7:bR:454:TYR:CE2	2.54	0.43
7:cA:484:VAL:HG13	7:cA:485:SER:H	1.84	0.43
7:cB:642:PHE:CE1	7:cK:564:ILE:HD11	2.54	0.43
7:cC:152:ALA:O	7:cC:156:GLU:HG2	2.18	0.43
7:cC:188:ILE:HG22	7:cC:190:ASP:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cE:110:TYR:H	7:cE:138:GLY:CA	2.31	0.43
7:cH:159:GLU:OE2	7:cH:166:ASN:ND2	2.51	0.43
7:cH:430:ARG:HG3	7:cH:522:ILE:HD11	2.00	0.43
7:cI:384:GLU:HG2	7:cI:439:ASN:OD1	2.17	0.43
7:cL:646:ALA:H	7:cL:650:ASP:CG	2.27	0.43
7:cN:296:SER:O	7:cN:311:ILE:HG13	2.18	0.43
7:cP:470:LEU:HD11	7:cP:499:ILE:HG21	2.00	0.43
7:dU:512:ALA:O	7:dU:516:ARG:HG3	2.19	0.43
8:eB:98:TYR:CZ	8:eB:328:LEU:HD13	2.54	0.43
8:eB:334:GLU:HG2	8:f9:337:GLN:HG3	2.00	0.43
8:eB:611:LEU:HB2	8:eB:615:LYS:HG3	2.01	0.43
8:fB:216:HIS:O	8:fB:217:ALA:C	2.62	0.43
8:fB:397:LYS:HD2	8:fB:398:ASP:N	2.32	0.43
8:fB:593:GLY:HA3	8:fB:604:TRP:HA	2.01	0.43
8:fR:231:ASP:OD1	14:k7:35:TYR:OH	2.35	0.43
8:fU:545:ARG:HG2	8:fU:546:ASP:O	2.19	0.43
8:fU:596:ASN:OD1	8:fU:601:VAL:HG22	2.19	0.43
8:fU:606:ILE:HD13	8:fU:616:PHE:CE2	2.54	0.43
8:fr:30:LYS:NZ	8:fr:58:ASP:OD1	2.32	0.43
8:fr:94:GLN:HE22	8:fr:228:GLU:N	2.16	0.43
8:fr:102:SER:OG	8:fr:103:LYS:N	2.51	0.43
9:gE:58:ILE:HD12	9:gG:98:GLY:HA3	1.99	0.43
9:gG:468:ASP:CG	9:gG:469:ASN:H	2.27	0.43
11:h1:1:MET:HE3	11:h1:1:MET:HB2	1.66	0.43
11:hK:54:MET:HB2	11:hM:99:ILE:HD13	2.00	0.43
11:hK:69:TRP:HB2	11:hK:159:LEU:HD23	1.99	0.43
11:hX:58:ILE:HD11	17:q4:7:PHE:HE2	1.82	0.43
11:hf:32:PHE:HA	11:hf:35:GLN:HB2	2.01	0.43
11:hn:61:ALA:HA	11:hu:133:TRP:CH2	2.52	0.43
11:hp:97:ASN:HB3	11:hw:2:PHE:HD2	1.83	0.43
11:hs:120:ALA:HB2	11:hu:99:ILE:O	2.19	0.43
11:ht:140:LEU:HD13	11:ht:153:PHE:HB3	2.00	0.43
11:hz:46:VAL:HG23	11:hz:64:ARG:HE	1.84	0.43
14:k4:40:LEU:HD21	14:k4:45:LEU:HD23	2.00	0.43
14:IV:59:LEU:HD23	14:IV:73:LEU:HD13	2.00	0.43
16:o0:339:PRO:HD2	16:o0:342:PHE:CE2	2.54	0.43
16:pB:47:ASP:HB2	16:pB:56:ASP:HB2	2.01	0.43
16:pB:312:GLY:HA2	16:pB:314:CYS:N	2.34	0.43
17:q4:233:ASP:OD1	17:q4:233:ASP:N	2.51	0.43
17:q7:204:HIS:HE1	17:q7:210:PRO:HG3	1.83	0.43
17:q8:255:ARG:HE	17:q8:255:ARG:HB3	1.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q9:256:GLN:H	17:q9:259:LEU:HD23	1.83	0.43
1:S0:171:LYS:HA	1:S0:174:ALA:HB3	2.01	0.43
1:S0:315:ILE:O	1:S5:321:MET:HA	2.18	0.43
1:S2:5:THR:HA	4:XK:196:ARG:HD2	2.00	0.43
1:S2:262:VAL:HG23	1:S3:260:ARG:HD3	1.99	0.43
1:S3:7:GLN:HB3	1:S3:15:TYR:CG	2.54	0.43
1:S5:509:GLY:HA3	1:S7:441:GLN:NE2	2.34	0.43
1:S6:6:TYR:HE1	4:Xl:233:ARG:HD2	1.84	0.43
1:S6:335:ASN:HB3	1:S8:329:ASN:ND2	2.33	0.43
1:SA:174:ALA:HB2	1:Sw:173:ILE:HD11	2.01	0.43
1:SO:291:ARG:NH1	1:SP:286:ASP:OD2	2.52	0.43
1:SO:439:ILE:HG23	1:SQ:515:TRP:CH2	2.54	0.43
1:SQ:166:GLN:HA	1:SQ:170:ILE:HD12	2.01	0.43
1:SQ:478:ASP:OD1	1:SQ:478:ASP:N	2.50	0.43
1:Sv:100:TYR:HE2	1:Sx:113:GLU:HA	1.83	0.43
1:Sw:212:PRO:HB2	1:Sy:203:THR:HG22	2.00	0.43
1:Sx:5:THR:HG23	4:Wn:196:ARG:CZ	2.48	0.43
2:T3:60:ILE:HG13	2:T3:62:HIS:CE1	2.52	0.43
2:T7:67:TYR:CD1	2:T7:84:ARG:HB3	2.53	0.43
2:TF:9:LEU:HD11	2:TH:52:ASN:HB2	2.01	0.43
2:TF:78:PRO:HA	2:TF:97:ILE:O	2.18	0.43
2:TF:172:GLU:HB3	2:TG:164:ILE:HG12	2.00	0.43
2:TH:47:LYS:HD2	2:TH:59:GLN:HG2	2.00	0.43
2:Td:66:TYR:OH	2:Td:69:LYS:NZ	2.51	0.43
2:Tg:168:PHE:CE1	2:Ti:161:ASN:HB3	2.53	0.43
2:Th:14:GLU:HB3	2:Th:17:ASN:OD1	2.18	0.43
3:UL:90:PHE:CE2	3:UL:129:VAL:HG21	2.54	0.43
3:UM:52:ILE:HD11	3:UN:15:ALA:HB2	2.01	0.43
3:UM:102:GLY:N	3:UM:118:THR:OG1	2.52	0.43
3:Us:192:THR:HB	3:Us:219:ALA:HB3	1.99	0.43
3:Us:195:LEU:HA	3:Us:215:PHE:HD1	1.84	0.43
3:VM:13:ARG:O	3:VM:17:PHE:HB2	2.18	0.43
3:Vp:200:THR:N	3:Vr:204:ASP:OD1	2.41	0.43
3:Vt:13:ARG:HG2	3:Vt:14:LEU:H	1.83	0.43
4:WJ:103:ASN:OD1	4:WJ:104:VAL:N	2.49	0.43
4:WK:72:THR:HG22	4:WK:77:VAL:HG22	1.99	0.43
4:Wk:340:VAL:HG23	4:Wk:341:GLU:HG3	1.99	0.43
4:Wk:422:LEU:HB2	4:Wk:425:PHE:HE1	1.84	0.43
4:Wl:192:ARG:NH2	4:Wn:245:GLU:OE1	2.51	0.43
4:Wl:354:THR:HG21	4:Wl:370:HIS:ND1	2.34	0.43
4:Wm:65:GLY:O	4:Wo:45:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:113:SER:OG	4:Wm:114:GLY:N	2.51	0.43
4:Wn:18:TYR:HD1	4:Wn:18:TYR:HA	1.70	0.43
4:XI:335:ASP:OD1	4:XI:335:ASP:N	2.51	0.43
4:XI:419:ASP:HB3	4:XI:436:VAL:HB	2.01	0.43
4:Xm:253:GLN:HB2	4:Xm:255:ARG:HE	1.82	0.43
4:Xn:372:ASP:OD1	4:Xn:372:ASP:N	2.51	0.43
5:YC:449:LYS:HD2	6:ZZ:74:HIS:CE1	2.54	0.43
5:YC:516:TRP:HE3	5:YC:523:ARG:HG2	1.83	0.43
5:YX:238:TYR:HE2	5:YX:517:SER:HB3	1.82	0.43
5:YX:714:TYR:HE2	5:YX:723:VAL:HG11	1.83	0.43
5:YX:946:SER:O	5:YX:948:THR:N	2.43	0.43
5:YY:658:LEU:O	5:YY:665:GLU:HB2	2.19	0.43
5:YY:724:ALA:C	5:YY:726:PHE:N	2.77	0.43
5:YY:768:TYR:HA	5:YY:844:GLY:HA2	2.00	0.43
5:Yc:142:ILE:H	5:Yc:546:GLU:HG2	1.83	0.43
5:Yc:229:VAL:O	5:Yc:249:GLY:HA2	2.19	0.43
5:Yc:914:ASN:CG	5:Yc:1011:ARG:HE	2.26	0.43
5:Yy:92:SER:OG	5:Yy:93:ASP:N	2.51	0.43
5:Yy:232:PRO:HG3	5:Yy:237:VAL:HG22	2.01	0.43
6:ZZ:58:PRO:HB2	6:ZZ:314:ASN:HB3	2.01	0.43
6:aa:114:CYS:HA	6:aa:120:ASN:CG	2.43	0.43
7:b3:57:PRO:HB3	7:b3:65:PHE:HB3	2.00	0.43
7:b5:211:GLN:HE22	7:b5:328:GLN:HB3	1.82	0.43
7:b5:636:ASN:O	7:b6:6:PRO:HA	2.18	0.43
7:b6:635:ILE:N	7:cA:574:GLU:O	2.52	0.43
7:b7:11:LYS:HG2	7:b7:13:THR:HG23	2.01	0.43
7:bO:69:MET:HE2	7:bO:69:MET:HB3	1.93	0.43
7:bP:487:THR:HG21	7:bP:559:MET:HE3	2.00	0.43
7:bQ:116:ILE:H	7:bQ:116:ILE:HG12	1.64	0.43
7:bR:41:ILE:HD11	7:bR:361:PHE:HB3	2.00	0.43
7:bR:490:SER:O	7:bR:496:ARG:NH1	2.51	0.43
7:bR:623:PHE:HB2	7:cP:635:ILE:HD13	2.00	0.43
7:bY:114:ASP:HB2	7:bY:131:ILE:HG13	2.00	0.43
7:bY:315:PHE:CD2	7:bY:325:ALA:HB3	2.53	0.43
7:cB:11:LYS:HG2	7:cB:13:THR:HG23	2.01	0.43
7:cB:107:GLY:HA3	7:cB:110:TYR:HE2	1.84	0.43
7:cB:536:TYR:HD1	7:cB:536:TYR:HA	1.77	0.43
7:cD:291:GLN:HE22	7:cD:320:SER:HB2	1.82	0.43
7:cF:72:LEU:HD12	7:cF:72:LEU:HA	1.81	0.43
7:cG:642:PHE:CZ	7:cH:564:ILE:HD11	2.53	0.43
7:cH:36:GLY:O	7:cH:82:ARG:NH1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:184:LEU:HD23	7:cH:184:LEU:HA	1.86	0.43
7:cI:453:ASN:HB2	7:cI:506:ALA:HB3	2.00	0.43
7:cI:572:LEU:O	7:cI:573:PHE:C	2.61	0.43
7:cJ:349:GLU:N	7:cJ:349:GLU:OE1	2.51	0.43
7:cL:383:LEU:HD11	7:cL:436:TYR:CD1	2.54	0.43
7:cL:389:VAL:O	7:cL:393:VAL:HG23	2.19	0.43
7:cN:453:ASN:HB2	7:cN:506:ALA:HB3	2.00	0.43
7:cO:137:ASP:OD1	7:cO:138:GLY:N	2.49	0.43
7:dS:130:LYS:HE3	7:dS:130:LYS:HB2	1.76	0.43
7:dU:344:LEU:HD12	7:dU:346:SER:HB3	2.00	0.43
7:dU:592:LEU:HA	7:dU:595:ILE:HG22	2.00	0.43
8:eW:136:LYS:HA	8:eW:136:LYS:HD2	1.76	0.43
8:eW:364:THR:HG21	8:fs:403:PRO:HA	2.00	0.43
8:fA:358:GLN:HB2	8:fA:379:LYS:CB	2.48	0.43
8:fB:428:LYS:O	8:fB:474:SER:HB3	2.18	0.43
8:fU:90:VAL:O	8:fU:94:GLN:HG2	2.19	0.43
8:fU:566:ASN:HB2	8:fU:569:ILE:HG23	2.00	0.43
8:fW:56:LEU:O	8:fW:60:LEU:HG	2.18	0.43
8:fs:501:TYR:OH	8:fs:623:LEU:HB3	2.19	0.43
8:fs:552:LYS:HD2	8:fs:591:VAL:HG21	2.01	0.43
9:gH:107:LYS:HG2	9:gH:122:PRO:HG2	2.01	0.43
11:hM:97:ASN:O	17:q5:4:LEU:HB3	2.18	0.43
11:hf:64:ARG:HD2	11:hf:66:PHE:CZ	2.54	0.43
11:hh:56:ARG:HB3	11:hh:56:ARG:NH1	2.33	0.43
11:hj:40:ALA:O	11:hj:69:TRP:NE1	2.50	0.43
11:hm:117:ALA:HB3	11:hm:122:THR:HB	2.01	0.43
11:hp:143:ASP:OD1	11:hp:144:TRP:N	2.52	0.43
11:hr:85:PHE:HB3	11:hr:137:VAL:HG21	2.01	0.43
12:iF:34:THR:HB	16:pA:172:GLY:O	2.18	0.43
12:iF:305:ASP:OD1	12:iF:305:ASP:N	2.46	0.43
16:o1:105:LYS:HA	16:o1:105:LYS:HD2	1.81	0.43
16:o1:145:ASP:OD1	16:o1:145:ASP:N	2.52	0.43
16:o2:58:TYR:HE1	17:q7:144:ASN:H	1.66	0.43
16:o6:295:VAL:HG13	16:o6:311:PHE:HB3	2.01	0.43
16:pA:12:ILE:H	16:pA:12:ILE:HG13	1.58	0.43
16:pB:105:LYS:HB3	16:pB:105:LYS:HE2	1.80	0.43
17:q4:101:LEU:HD13	17:q7:200:GLN:HE22	1.84	0.43
17:q4:256:GLN:OE1	17:q4:257:ARG:NH1	2.51	0.43
1:S1:181:THR:O	1:S1:190:VAL:HG22	2.19	0.43
1:S1:360:ARG:HG3	1:S1:525:VAL:HG21	2.01	0.43
1:S2:476:ASP:O	1:S2:479:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S3:296:ILE:HG22	1:S3:298:GLY:H	1.84	0.43
1:S6:99:ARG:HD2	1:S8:95:TYR:HE1	1.83	0.43
1:S6:341:ILE:HG21	1:S6:359:TRP:CZ2	2.53	0.43
1:S6:440:GLN:OE1	1:S6:511:GLU:HG3	2.19	0.43
1:S7:375:TYR:CZ	1:S7:392:LEU:HD23	2.54	0.43
1:SA:112:ASN:HA	1:Sy:117:THR:OG1	2.18	0.43
1:SO:395:MET:HA	1:SO:398:LEU:HD12	2.01	0.43
1:Sv:102:THR:HG23	1:Sv:104:ASP:N	2.34	0.43
1:Sw:288:ILE:HA	1:Sw:294:GLN:HE22	1.83	0.43
1:Sx:213:TYR:HB2	1:Sz:203:THR:O	2.18	0.43
1:Sy:29:ILE:O	1:Sy:30:THR:OG1	2.26	0.43
1:Sz:31:ASP:OD1	1:Sz:31:ASP:N	2.51	0.43
2:T1:24:LEU:HD23	2:T1:24:LEU:HA	1.86	0.43
2:T3:126:ALA:H	2:T3:130:ILE:HD11	1.83	0.43
2:T6:92:VAL:CG1	5:Yx:55:ARG:HH22	2.32	0.43
3:UL:7:LYS:HE3	4:WJ:316:ILE:HD13	2.01	0.43
3:UN:102:GLY:N	3:UN:118:THR:OG1	2.52	0.43
3:Us:162:ASP:OD2	3:Us:166:HIS:NE2	2.52	0.43
3:Vq:13:ARG:HD2	3:Vu:9:GLY:C	2.44	0.43
4:WI:137:TYR:HA	4:WI:143:TRP:HD1	1.84	0.43
4:WI:554:GLY:O	4:WK:555:CYS:HB2	2.19	0.43
4:WJ:20:ARG:HB3	5:YC:1003:GLN:HG3	2.01	0.43
4:WK:159:ILE:HD13	4:WK:159:ILE:HA	1.82	0.43
4:Wj:78:THR:HA	4:Wj:108:THR:O	2.19	0.43
4:Wl:316:ILE:HG23	4:Wn:315:GLY:HA3	2.01	0.43
4:Wm:263:ILE:HG22	4:Wm:381:ILE:HB	2.01	0.43
4:Wm:335:ASP:O	4:Wm:336:SER:HB3	2.19	0.43
4:Wm:464:VAL:HG12	4:Wo:429:GLY:HA2	2.00	0.43
4:Wo:95:ALA:HB3	4:Wo:133:LEU:HB2	1.99	0.43
4:XI:135:LEU:HA	4:XI:144:GLU:O	2.18	0.43
4:XI:265:LEU:HB3	4:XI:281:TYR:HB3	2.01	0.43
4:XJ:92:VAL:HG11	4:XK:49:TRP:CH2	2.54	0.43
4:XJ:273:LYS:HE2	4:XJ:280:ILE:HD13	2.00	0.43
4:XK:149:LYS:O	4:XK:149:LYS:HE2	2.19	0.43
4:XK:192:ARG:HB2	4:XK:245:GLU:H	1.83	0.43
4:XK:416:ILE:O	4:XK:438:SER:HA	2.19	0.43
4:XI:328:LEU:HB3	4:XI:329:PHE:H	1.59	0.43
4:Xm:362:GLU:HB2	4:Xm:367:GLU:OE1	2.19	0.43
5:YC:18:ALA:HB3	5:YC:106:ASN:OD1	2.19	0.43
5:YC:324:ASP:OD1	5:YC:324:ASP:N	2.47	0.43
5:YC:705:TRP:CE2	8:f9:15:ASN:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:330:LYS:HD2	5:YX:333:ASN:HB3	2.01	0.43
5:YX:339:ASP:O	5:YX:342:SER:OG	2.21	0.43
5:YX:478:GLU:OE2	6:Za:66:LEU:HD11	2.19	0.43
5:YY:777:LEU:HD13	5:YY:834:PHE:CE1	2.53	0.43
5:YY:777:LEU:HD23	5:YY:809:TRP:CG	2.54	0.43
5:YY:1012:LEU:HB2	5:YY:1027:GLN:CD	2.43	0.43
5:Yc:300:LEU:HD22	5:Yc:329:ILE:HG12	2.00	0.43
5:Yc:714:TYR:CE2	5:Yc:723:VAL:HG21	2.47	0.43
5:Yx:312:THR:HG22	5:Yx:319:TYR:HB2	2.00	0.43
5:Yx:445:SER:HB3	5:Yx:488:MET:HE3	1.99	0.43
5:Yy:855:ILE:HG13	5:Yy:856:ASN:H	1.84	0.43
5:Yy:860:SER:H	8:fW:368:LYS:HB3	1.82	0.43
5:Yy:982:LEU:HB3	5:Yy:983:PRO:HD3	2.00	0.43
6:ZZ:93:ARG:HH21	6:ZZ:110:ASP:HB3	1.83	0.43
6:Zc:40:THR:OG1	6:Zc:273:SER:HB3	2.18	0.43
6:aZ:269:PHE:CE1	6:aZ:272:ILE:HD11	2.54	0.43
7:b0:116:ILE:HD12	7:b0:171:ILE:HG12	2.00	0.43
7:b0:151:ILE:O	7:b0:155:LYS:HG2	2.19	0.43
7:b0:495:ASN:OD1	7:b0:495:ASN:N	2.49	0.43
7:b0:640:LEU:HD11	7:cI:568:SER:OG	2.19	0.43
7:b3:641:ASN:HA	7:b4:11:LYS:O	2.19	0.43
7:b4:453:ASN:HB2	7:b4:506:ALA:HB3	2.00	0.43
7:b7:269:PHE:CE2	7:b7:280:ALA:HB1	2.54	0.43
7:b7:572:LEU:O	7:b7:573:PHE:C	2.61	0.43
7:b8:66:MET:HE1	7:b8:459:ASP:OD1	2.19	0.43
7:b8:100:GLU:OE2	7:b8:186:LYS:HG3	2.19	0.43
7:b8:539:LYS:HG2	7:b8:550:ARG:HH21	1.84	0.43
7:bN:268:VAL:HG23	7:bN:269:PHE:CD2	2.54	0.43
7:bO:368:VAL:HG12	7:bO:370:VAL:HG22	1.99	0.43
7:bY:451:ASP:CG	7:bY:474:ILE:HD13	2.43	0.43
7:bY:536:TYR:HD1	7:bY:536:TYR:HA	1.74	0.43
7:cC:28:ALA:HB2	7:cC:370:VAL:HG21	2.00	0.43
7:cD:151:ILE:O	7:cD:155:LYS:HG2	2.18	0.43
7:cD:209:ASP:OD1	7:cD:209:ASP:N	2.50	0.43
7:cD:264:THR:O	7:cD:266:LYS:N	2.52	0.43
7:cF:484:VAL:HG13	7:cF:485:SER:H	1.84	0.43
7:cF:614:THR:C	7:cF:616:SER:H	2.27	0.43
7:cM:655:THR:HB	7:cN:19:VAL:HG21	2.00	0.43
7:cN:229:GLU:H	7:cN:229:GLU:HG2	1.57	0.43
7:cP:141:LYS:HA	7:cP:141:LYS:NZ	2.34	0.43
7:cP:266:LYS:HE3	7:cP:266:LYS:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cP:572:LEU:O	7:cP:573:PHE:C	2.61	0.43
7:dS:454:TYR:HB2	7:dS:506:ALA:HB2	2.01	0.43
7:dT:471:ALA:HA	7:dT:474:ILE:HG12	2.01	0.43
7:dU:15:VAL:HG11	15:mT:105:ILE:HD12	2.01	0.43
7:dZ:148:ALA:O	7:dZ:151:ILE:HG13	2.19	0.43
8:eU:223:ILE:HD13	8:eU:223:ILE:HA	1.71	0.43
8:eW:303:ASN:N	8:eW:304:PRO:HD3	2.34	0.43
8:eW:634:THR:HG21	8:eW:640:ILE:HG13	2.01	0.43
8:f9:201:VAL:HG22	8:f9:202:ASP:H	1.83	0.43
8:f9:550:ILE:HG13	8:f9:596:ASN:HB3	2.00	0.43
8:fB:393:LYS:HE3	8:fB:393:LYS:HB2	1.89	0.43
8:fB:517:PHE:HB2	8:fB:616:PHE:CD1	2.53	0.43
8:fS:198:LYS:HE2	8:fS:198:LYS:HB3	1.80	0.43
8:fU:94:GLN:OE1	8:fU:100:PRO:HD2	2.19	0.43
8:fW:49:GLU:HB3	15:m2:53:PHE:CE1	2.54	0.43
8:fW:257:ILE:HG22	8:fW:258:GLY:H	1.83	0.43
8:fr:10:LEU:O	8:fr:10:LEU:HD23	2.18	0.43
8:fr:348:PHE:HD1	8:fr:348:PHE:HA	1.71	0.43
8:fs:123:ILE:HD13	8:fs:123:ILE:HA	1.87	0.43
8:fs:523:VAL:HG22	8:fs:524:VAL:H	1.83	0.43
9:gE:166:ILE:HG21	9:gE:333:THR:HG22	2.01	0.43
9:gE:405:ASP:CG	9:gH:397:SER:HG	2.26	0.43
9:gE:468:ASP:CG	9:gE:469:ASN:H	2.26	0.43
11:hJ:140:LEU:HD13	11:hJ:153:PHE:HB3	2.00	0.43
11:hK:5:ASP:HB2	11:hZ:53:PHE:HE2	1.83	0.43
11:hL:4:ASP:O	11:hL:7:THR:OG1	2.29	0.43
11:he:54:MET:H	11:he:54:MET:HG2	1.59	0.43
11:he:106:GLU:O	11:he:109:LYS:NZ	2.51	0.43
11:hh:45:ILE:HA	11:hi:135:THR:O	2.19	0.43
11:hk:8:ARG:HG3	11:hk:11:GLU:OE2	2.18	0.43
11:hp:53:PHE:HE2	11:hy:5:ASP:HB2	1.83	0.43
11:hu:112:ILE:HD11	11:hu:126:GLU:OE2	2.19	0.43
11:hv:131:GLY:O	11:hv:159:LEU:HA	2.19	0.43
12:iD:3:MET:HE2	16:pA:288:SER:HB3	2.01	0.43
12:iF:135:MET:HE1	12:iF:169:TYR:CG	2.54	0.43
14:kV:55:ARG:NH2	14:kV:82:PRO:O	2.45	0.43
15:m5:65:MET:HE3	15:m5:99:TYR:HA	2.00	0.43
16:o6:102:THR:O	16:o6:103:VAL:C	2.61	0.43
17:q9:10:GLN:O	17:q9:12:ILE:N	2.52	0.43
1:S0:9:VAL:HG11	4:Xk:234:GLN:HE22	1.84	0.43
1:S1:125:LEU:HB2	1:S3:121:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:110:VAL:HG12	1:S2:111:ASN:H	1.84	0.43
1:S7:423:PRO:HB3	1:S7:427:VAL:HG21	2.01	0.43
1:SA:100:TYR:CE2	1:SA:115:SER:HB2	2.54	0.43
1:SO:140:GLY:HA2	1:SQ:129:PHE:CE1	2.53	0.43
1:Sv:286:ASP:OD2	1:Sz:291:ARG:NH1	2.50	0.43
1:Sw:102:THR:HG23	1:Sw:104:ASP:N	2.34	0.43
1:Sx:477:TRP:CD1	4:XJ:412:PRO:HD3	2.54	0.43
1:Sy:73:THR:HG23	1:Sy:74:LYS:HG3	2.01	0.43
1:Sz:117:THR:HG22	1:Sz:120:LYS:NZ	2.34	0.43
2:T2:240:VAL:HG11	2:T3:224:ASP:CG	2.44	0.43
2:T6:47:LYS:HD2	2:T6:59:GLN:HG2	2.00	0.43
2:T6:249:ILE:O	2:T6:267:SER:OG	2.32	0.43
2:T7:91:THR:HG1	5:Yy:55:ARG:HH21	1.62	0.43
2:T8:202:LEU:HB3	2:T8:278:VAL:HG22	2.00	0.43
2:Td:113:ASN:HD22	2:Tf:103:LEU:HD21	1.84	0.43
2:Td:149:ARG:HB3	2:Th:168:PHE:CZ	2.53	0.43
2:Tg:28:GLY:O	2:Tg:32:ASN:ND2	2.49	0.43
3:Ur:40:ILE:HA	3:Ur:43:LEU:HB2	1.99	0.43
3:Ur:85:THR:HB	3:Ur:184:SER:HB3	2.01	0.43
3:VL:90:PHE:O	3:VL:154:SER:HB2	2.19	0.43
3:VM:40:ILE:HA	3:VM:43:LEU:HD12	2.00	0.43
3:Vr:32:ARG:NH1	3:Vt:144:ASN:OD1	2.49	0.43
4:WI:299:ILE:O	4:WI:301:GLY:N	2.48	0.43
4:WI:407:TYR:CZ	4:WK:407:TYR:HD2	2.36	0.43
4:WJ:153:LYS:O	4:WJ:154:ILE:HG12	2.18	0.43
4:WJ:213:GLY:HA3	4:WJ:231:ARG:HB3	2.01	0.43
4:WJ:251:VAL:O	4:WK:161:ASN:ND2	2.36	0.43
4:WK:362:GLU:HG3	4:WK:367:GLU:H	1.83	0.43
4:Wj:70:ILE:HG22	4:Wj:102:TRP:HE1	1.83	0.43
4:Wj:169:VAL:O	4:Wj:238:ILE:HA	2.19	0.43
4:Wj:360:THR:HB	4:Wj:365:ILE:C	2.44	0.43
4:Wj:394:LEU:HG	4:Wj:395:THR:H	1.82	0.43
4:Wj:401:ASP:O	4:Wj:404:ASP:HB3	2.19	0.43
4:Wj:551:ILE:HG13	4:Wn:568:LYS:HG2	1.99	0.43
4:Wk:261:ARG:HD2	4:Wk:297:GLY:HA3	2.01	0.43
4:Wk:326:MET:HE3	4:Wk:326:MET:HB2	1.64	0.43
4:Wl:311:VAL:HG13	4:Wl:320:LEU:HB2	2.00	0.43
4:Wm:257:SER:O	4:Wm:258:TYR:HB3	2.19	0.43
4:Wn:289:LYS:HE2	4:Wn:370:HIS:CE1	2.52	0.43
4:Wn:479:LYS:HB2	4:Wn:601:ILE:HD13	2.01	0.43
4:Wo:89:TYR:O	4:Wo:91:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:18:TYR:CD2	5:Yc:942:ILE:HD11	2.53	0.43
4:XI:109:LEU:HB3	4:XI:124:VAL:HG23	2.00	0.43
4:XI:138:CYS:SG	4:XJ:99:PHE:HA	2.59	0.43
4:XJ:116:THR:HG22	4:XJ:121:ALA:HB2	2.01	0.43
4:XJ:192:ARG:HB2	4:XJ:245:GLU:HB2	2.01	0.43
4:Xk:9:ASN:C	4:Xk:11:VAL:H	2.21	0.43
4:Xl:79:ILE:HG12	4:Xl:109:LEU:HA	2.01	0.43
4:Xl:274:THR:HA	4:Xl:282:VAL:HG11	2.00	0.43
4:Xl:319:GLU:HB2	4:Xn:262:GLN:HE22	1.82	0.43
4:Xn:23:GLY:O	4:Xn:25:LYS:N	2.43	0.43
4:Xn:313:PHE:HA	4:Xn:381:ILE:HA	2.01	0.43
4:Xo:398:GLU:N	4:Xo:398:GLU:OE1	2.51	0.43
5:YC:61:TYR:CE2	6:ZD:156:LEU:HD11	2.53	0.43
5:YC:112:ASN:HD22	5:YC:118:LEU:HD13	1.84	0.43
5:YC:507:LYS:HB2	5:YC:511:GLU:HB2	2.01	0.43
5:YX:43:THR:H	5:YX:50:PRO:HD3	1.84	0.43
5:YX:305:TYR:CD2	5:YX:306:ARG:HG3	2.54	0.43
5:YX:477:ARG:NH1	6:Zc:135:ASP:OD1	2.49	0.43
5:YX:714:TYR:CE2	5:YX:723:VAL:HG21	2.54	0.43
5:YY:236:THR:HG23	5:YY:515:ASN:HB3	2.01	0.43
5:YY:506:MET:C	5:YY:507:LYS:HD3	2.44	0.43
5:Yc:169:GLY:HA2	5:Yc:541:TYR:HE1	1.84	0.43
5:Yc:375:VAL:HG22	5:Yc:406:LEU:O	2.19	0.43
5:Yx:15:LYS:HB2	5:Yx:15:LYS:HE3	1.79	0.43
5:Yx:375:VAL:HG22	5:Yx:406:LEU:O	2.19	0.43
5:Yx:906:LEU:HD13	6:aZ:334:PHE:HD1	1.84	0.43
5:Yy:380:ILE:O	5:Yy:401:LYS:HD2	2.19	0.43
5:Yy:487:MET:HG2	5:Yy:506:MET:HE3	2.01	0.43
5:Yy:1014:ASP:HA	5:Yy:1027:GLN:O	2.19	0.43
6:ZZ:92:ARG:HG2	6:ZZ:206:GLU:C	2.44	0.43
6:Za:282:LYS:NZ	6:Za:287:ASP:O	2.50	0.43
6:aE:333:THR:O	6:aE:333:THR:OG1	2.35	0.43
6:aa:151:ASP:O	6:aa:155:LYS:HG3	2.18	0.43
6:ab:140:GLY:HA3	6:ab:162:PRO:HA	2.00	0.43
6:ac:40:THR:OG1	6:ac:273:SER:HB3	2.18	0.43
7:b3:480:ARG:HA	7:b3:483:ASN:HD22	1.84	0.43
7:b4:302:LYS:HD3	7:b4:302:LYS:HA	1.88	0.43
7:b6:494:TYR:CE1	7:cA:569:LYS:HG3	2.53	0.43
7:b8:69:MET:O	7:b8:73:GLN:HG2	2.19	0.43
7:b8:642:PHE:HE1	7:cC:564:ILE:HD11	1.83	0.43
7:b9:454:TYR:HB3	7:b9:467:TRP:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bN:379:ALA:HB2	7:bN:454:TYR:HE2	1.84	0.43
7:bO:153:LYS:HB3	7:bO:167:TRP:HH2	1.84	0.43
7:bP:135:ASP:OD2	7:bP:139:LYS:NZ	2.51	0.43
7:bR:193:ILE:HG21	7:bR:223:VAL:HG11	2.01	0.43
7:cA:652:ASP:O	7:cA:654:LEU:N	2.50	0.43
7:cC:614:THR:C	7:cC:616:SER:H	2.27	0.43
7:cH:410:PRO:O	7:cH:413:THR:HG22	2.19	0.43
7:cH:454:TYR:HB3	7:cH:467:TRP:HD1	1.84	0.43
7:cJ:352:ALA:HB2	7:cJ:385:THR:HB	2.00	0.43
7:cK:107:GLY:HA3	7:cK:110:TYR:CE2	2.50	0.43
7:cL:120:TYR:HE1	7:cL:166:ASN:HD22	1.66	0.43
7:cL:141:LYS:HA	7:cL:141:LYS:NZ	2.34	0.43
7:cN:538:ASP:N	7:cN:538:ASP:OD1	2.52	0.43
7:cO:427:VAL:HG13	7:cO:520:GLU:HG3	1.99	0.43
7:cP:46:ASN:OD1	7:cP:47:GLU:N	2.52	0.43
7:dS:239:VAL:HG23	7:dS:280:ALA:HB3	2.01	0.43
7:dS:351:THR:OG1	7:dS:352:ALA:N	2.52	0.43
7:dS:585:ARG:NH2	17:q8:98:GLN:OE1	2.49	0.43
7:dT:301:GLY:O	7:dT:309:ILE:HG12	2.19	0.43
7:dU:455:LYS:HG3	7:dU:502:VAL:HG13	2.01	0.43
7:dV:114:ASP:OD1	7:dV:114:ASP:N	2.50	0.43
7:dW:278:GLN:HG2	7:dW:296:SER:HB2	2.01	0.43
7:dZ:268:VAL:HG23	7:dZ:269:PHE:H	1.84	0.43
8:eU:281:ASN:HD21	8:eU:315:GLY:H	1.67	0.43
8:eW:49:GLU:HB3	15:m6:53:PHE:CE1	2.53	0.43
8:f9:340:VAL:HG13	8:f9:401:LEU:HD11	2.00	0.43
8:fB:487:GLU:OE1	8:fB:647:ARG:NH1	2.52	0.43
8:fR:80:MET:HG2	8:fR:81:ARG:H	1.84	0.43
8:fS:419:ASN:HB2	8:fS:481:THR:HG23	2.00	0.43
8:fS:512:SER:HB2	8:fS:623:LEU:HD12	1.99	0.43
8:fU:44:LEU:HD12	15:m1:9:SER:HB2	2.00	0.43
8:fW:489:GLN:HA	8:fW:620:THR:HG22	2.01	0.43
8:fs:401:LEU:O	8:fs:404:ILE:HG22	2.19	0.43
9:gE:342:GLU:OE2	9:gE:373:ARG:NH1	2.51	0.43
11:h1:98:GLU:OE1	11:h1:98:GLU:N	2.38	0.43
11:hJ:23:VAL:HG22	11:hJ:36:CYS:SG	2.59	0.43
11:hK:19:ASN:OD1	11:hK:19:ASN:N	2.43	0.43
11:hL:48:LYS:HG3	11:hL:59:ASN:HB3	2.01	0.43
11:he:83:GLN:HA	11:he:86:VAL:HG22	2.00	0.43
11:hg:118:ARG:HA	11:hg:118:ARG:HD2	1.95	0.43
11:hh:120:ALA:HB3	11:hh:121:LYS:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hi:118:ARG:HA	11:hi:118:ARG:HD2	1.88	0.43
11:hl:23:VAL:HG22	11:hl:36:CYS:SG	2.59	0.43
11:hm:1:MET:HE2	11:hn:120:ALA:O	2.19	0.43
11:ht:55:ASN:HB3	11:ht:56:ARG:H	1.72	0.43
11:hu:1:MET:HB2	11:hu:1:MET:HE3	1.78	0.43
11:hz:131:GLY:O	11:hz:159:LEU:HA	2.18	0.43
12:iC:178:LEU:HD23	12:iC:178:LEU:HA	1.82	0.43
12:iC:270:LYS:HE3	12:iC:270:LYS:HB2	1.90	0.43
13:jc:578:THR:HG21	16:pA:158:ALA:HB2	2.01	0.43
14:k4:69:LEU:HD13	14:k4:177:ILE:HG12	2.00	0.43
14:kV:76:CYS:SG	14:kV:172:ILE:HG13	2.59	0.43
16:o1:92:LEU:O	16:o1:93:ARG:HB2	2.19	0.43
16:o2:47:ASP:H	16:o2:56:ASP:HB2	1.84	0.43
17:q7:111:ILE:O	17:q7:115:ASN:ND2	2.52	0.43
17:q8:101:LEU:HD13	17:q9:200:GLN:HE22	1.84	0.43
17:q9:6:GLU:HG3	17:q9:10:GLN:HG3	2.01	0.43
17:q9:221:ILE:HA	17:q9:221:ILE:HD12	1.75	0.43
1:S0:100:TYR:OH	1:S5:115:SER:OG	2.18	0.43
1:S1:27:PRO:HA	1:S1:29:ILE:HD11	2.00	0.43
1:S2:99:ARG:HG2	1:S2:100:TYR:N	2.34	0.43
1:S2:308:ILE:HD12	1:S3:315:ILE:HG23	2.00	0.43
1:S3:46:GLY:O	1:S3:48:PRO:HD3	2.19	0.43
1:S4:166:GLN:HA	1:S4:170:ILE:HG13	2.01	0.43
1:S7:168:LEU:H	1:S7:168:LEU:HG	1.72	0.43
1:SQ:99:ARG:O	1:SQ:114:SER:HA	2.18	0.43
1:Sv:100:TYR:CZ	1:Sx:90:ALA:HB3	2.54	0.43
1:Sv:139:ASN:OD1	1:Sv:139:ASN:N	2.51	0.43
1:Sx:287:VAL:O	1:Sx:294:GLN:NE2	2.52	0.43
1:Sz:77:THR:HG22	1:Sz:80:THR:H	1.84	0.43
2:T6:18:ALA:HB1	2:T6:22:ASP:HB2	2.01	0.43
3:UM:87:TYR:HE1	3:UM:157:GLU:HB2	1.84	0.43
3:UM:90:PHE:HE2	3:UM:129:VAL:HG21	1.84	0.43
3:UM:146:TYR:HB2	3:UM:158:VAL:HG22	2.01	0.43
3:Ur:126:VAL:HG21	3:Ur:154:SER:HA	2.00	0.43
3:Ut:170:THR:HG23	3:Ut:178:ILE:O	2.19	0.43
3:VL:11:ILE:O	3:VN:7:LYS:HD2	2.19	0.43
3:VN:40:ILE:HA	3:VN:43:LEU:HB2	2.01	0.43
3:Vp:109:VAL:HG13	3:Vp:178:ILE:HD13	2.01	0.43
3:Vq:87:TYR:CE1	3:Vq:157:GLU:HB2	2.54	0.43
3:Vr:100:PRO:O	3:Vr:103:SER:OG	2.31	0.43
3:Vr:126:VAL:HG21	3:Vr:154:SER:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vr:198:ALA:HA	3:Vr:212:PHE:O	2.19	0.43
3:Vs:90:PHE:HA	3:Vs:177:THR:O	2.18	0.43
4:Wl:288:MET:HG2	4:Wl:289:LYS:O	2.19	0.43
4:Wk:139:ALA:HB3	4:Wk:140:PRO:HD3	2.00	0.43
4:Wk:552:VAL:HG11	4:Wo:569:TYR:CE2	2.53	0.43
4:Wl:265:LEU:O	4:Wl:378:GLY:HA2	2.19	0.43
4:Wl:399:ILE:HD12	4:Wl:400:ILE:HG13	2.01	0.43
4:XI:94:ARG:HD3	4:XI:94:ARG:HA	1.75	0.43
4:XI:115:ASP:OD2	4:XI:137:TYR:OH	2.30	0.43
4:XI:248:MET:HB2	4:XI:254:TRP:CD1	2.54	0.43
4:XI:261:ARG:HH21	4:XI:299:ILE:HD13	1.82	0.43
4:XI:454:TYR:O	4:XI:600:ARG:NH1	2.42	0.43
4:XI:506:LEU:HB3	4:XI:510:GLY:HA2	2.01	0.43
4:XI:558:ASP:CG	4:XI:559:PRO:HD3	2.44	0.43
4:XJ:3:GLN:O	4:XJ:29:ASN:ND2	2.49	0.43
4:XJ:12:ASP:HB3	5:Yc:977:ILE:HD13	2.01	0.43
4:Xj:65:GLY:O	4:XI:45:SER:N	2.51	0.43
4:Xj:113:SER:OG	4:Xj:114:GLY:N	2.45	0.43
4:Xk:7:ILE:HG21	4:Xm:24:ILE:HG13	2.01	0.43
4:Xk:530:ALA:HA	4:Xo:580:HIS:CE1	2.54	0.43
4:XI:103:ASN:O	4:XI:105:ASN:N	2.52	0.43
4:Xo:304:ILE:HG22	4:Xo:385:TRP:CD1	2.54	0.43
5:YC:206:GLN:OE1	5:YC:206:GLN:N	2.48	0.43
5:YC:345:TYR:O	5:YC:346:SER:OG	2.33	0.43
5:YC:588:TYR:HB2	5:YC:593:GLU:O	2.19	0.43
5:YC:613:LYS:HD3	5:YC:613:LYS:HA	1.88	0.43
5:YC:802:TYR:CE1	8:eB:608:LYS:HE2	2.54	0.43
5:YX:342:SER:O	5:YX:345:TYR:HB3	2.19	0.43
5:YX:360:ASN:C	5:YX:362:LYS:N	2.77	0.43
5:YX:408:HIS:CE1	5:YX:411:LYS:HE3	2.54	0.43
5:YY:360:ASN:HB3	5:YY:361:PRO:CD	2.47	0.43
5:Yc:360:ASN:O	5:Yc:362:LYS:HG3	2.18	0.43
5:Yx:238:TYR:HE2	5:Yx:517:SER:HB3	1.84	0.43
5:Yx:706:SER:HB2	5:Yx:728:GLU:CD	2.44	0.43
5:Yx:926:PRO:HG3	5:Yx:969:TYR:CZ	2.54	0.43
5:Yy:561:TRP:CD2	5:Yy:566:CYS:HB2	2.53	0.43
6:ZE:311:TYR:OH	6:ZE:313:GLU:OE1	2.33	0.43
6:aD:117:ALA:O	6:aD:121:ALA:N	2.52	0.43
6:aa:103:PRO:HG2	6:aa:104:TYR:CD2	2.54	0.43
7:b0:378:CYS:SG	7:b0:454:TYR:OH	2.64	0.43
7:b0:480:ARG:O	7:b0:484:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b4:198:ILE:HD11	7:b4:225:LEU:HD11	1.99	0.43
7:b6:494:TYR:HE2	7:b6:528:THR:HG21	1.84	0.43
7:b7:598:LEU:HD21	11:hm:7:THR:HG22	2.01	0.43
7:b8:538:ASP:OD1	7:b8:538:ASP:N	2.51	0.43
7:b9:381:GLU:HB3	7:b9:385:THR:OG1	2.18	0.43
7:bN:478:CYS:O	7:bN:555:ARG:NH1	2.45	0.43
7:bR:69:MET:O	7:bR:73:GLN:HG2	2.19	0.43
7:bR:400:ARG:HH11	7:bR:400:ARG:HB3	1.84	0.43
7:bR:440:ASN:HD22	7:bR:442:ASN:HB2	1.83	0.43
7:cB:413:THR:OG1	7:cB:425:ASN:HB3	2.18	0.43
7:cC:116:ILE:HD12	7:cC:171:ILE:HG12	2.01	0.43
7:cE:198:ILE:HG23	7:cE:324:PHE:HE2	1.84	0.43
7:cF:215:LYS:HB2	7:cF:329:ASN:ND2	2.34	0.43
7:cG:379:ALA:HB2	7:cG:454:TYR:HE2	1.84	0.43
7:cH:110:TYR:CE1	7:cH:171:ILE:HD12	2.54	0.43
7:cJ:42:LYS:HE3	7:cJ:42:LYS:HB3	1.88	0.43
7:cJ:108:SER:O	7:cJ:177:GLY:HA2	2.19	0.43
7:cJ:406:LEU:HD13	7:cJ:475:ALA:HB2	2.00	0.43
7:cK:134:VAL:HG12	7:cK:140:ILE:HG22	2.01	0.43
7:cM:32:LYS:HD3	7:cM:64:TYR:CE2	2.53	0.43
7:cN:143:ILE:HD12	7:cN:145:ILE:HD11	2.00	0.43
7:cN:394:VAL:HG11	7:cN:443:ILE:HD12	2.00	0.43
7:cN:430:ARG:HD2	7:cN:520:GLU:O	2.19	0.43
7:cN:440:ASN:ND2	7:cN:442:ASN:HB2	2.34	0.43
7:cO:7:GLY:C	7:cO:8:ILE:HD12	2.44	0.43
7:cO:389:VAL:O	7:cO:393:VAL:HG23	2.19	0.43
7:cP:131:ILE:HD11	7:cP:171:ILE:HD13	2.00	0.43
7:cP:355:LEU:HD23	7:cP:355:LEU:HA	1.89	0.43
7:dS:137:ASP:OD1	7:dS:139:LYS:NZ	2.50	0.43
7:dS:639:THR:HA	7:dT:11:LYS:O	2.19	0.43
7:dU:460:LYS:H	7:dU:460:LYS:HG3	1.46	0.43
8:eB:332:LYS:O	8:f9:336:GLN:NE2	2.52	0.43
8:eB:517:PHE:HE1	8:eB:615:LYS:HB3	1.84	0.43
8:eB:521:ARG:HG3	8:eB:533:ASP:CG	2.44	0.43
8:eB:592:ILE:HG12	8:eB:609:ILE:HD11	2.01	0.43
8:eU:336:GLN:O	8:fR:251:ALA:HB1	2.19	0.43
8:eU:507:ASP:OD1	8:eU:545:ARG:NH1	2.52	0.43
8:eW:414:LEU:HD23	8:eW:486:ARG:NH2	2.34	0.43
8:eW:555:ILE:O	8:eW:589:TYR:HD1	2.01	0.43
8:f9:68:GLN:O	8:f9:72:ASN:HB3	2.19	0.43
8:fR:41:ASN:OD1	8:fR:42:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fs:101:THR:OG1	8:fs:102:SER:N	2.51	0.43
8:fs:172:ILE:HD13	8:fs:273:ILE:HG12	2.01	0.43
8:fs:328:LEU:HA	8:fs:328:LEU:HD23	1.78	0.43
9:gE:407:PRO:HB3	9:gH:232:ASN:HB2	2.01	0.43
10:gd:56:HIS:CD2	10:gd:83:CYS:HB2	2.54	0.43
11:h2:56:ARG:HB3	11:h2:56:ARG:NH1	2.33	0.43
11:hI:69:TRP:HB2	11:hI:159:LEU:HD23	2.00	0.43
11:hI:116:TYR:CE1	11:hI:123:VAL:HG22	2.54	0.43
11:hK:58:ILE:HG22	11:hL:160:ASP:CG	2.44	0.43
11:he:133:TRP:CH2	11:ht:61:ALA:HA	2.53	0.43
11:hg:83:GLN:HA	11:hg:86:VAL:HG22	2.00	0.43
11:hg:99:ILE:O	11:hk:120:ALA:HB2	2.19	0.43
11:ho:67:ASP:OD1	11:ho:67:ASP:N	2.49	0.43
11:hq:107:TYR:O	11:hq:133:TRP:HB3	2.18	0.43
11:hu:51:VAL:O	11:hu:57:LYS:HB2	2.19	0.43
12:iC:96:SER:HB2	12:iF:235:VAL:HG22	2.01	0.43
14:k4:7:ASP:HB3	16:o2:81:ARG:HH22	1.84	0.43
16:o2:106:LEU:HD23	16:o2:106:LEU:HA	1.86	0.43
16:pB:32:LYS:O	16:pB:33:THR:OG1	2.28	0.43
16:pB:338:LEU:HD23	16:pB:338:LEU:HA	1.91	0.43
16:pB:340:SER:HB3	17:q7:189:ARG:HH11	1.84	0.43
17:q7:204:HIS:CE1	17:q7:210:PRO:HG3	2.54	0.43
17:q8:174:MET:O	17:q8:178:VAL:HG12	2.19	0.43
1:S0:442:MET:HA	1:S7:512:THR:HA	2.00	0.42
1:S1:354:LEU:HD21	1:S1:522:ILE:HG21	2.01	0.42
1:S1:511:GLU:HB3	1:S1:513:ARG:HH11	1.83	0.42
1:S4:96:GLY:N	1:S8:97:LEU:HB3	2.33	0.42
1:S4:309:ALA:HB3	1:S8:303:GLU:HA	2.00	0.42
1:S4:473:LYS:NZ	4:Wn:362:GLU:HA	2.34	0.42
1:S6:147:LEU:HA	1:S6:168:LEU:HD11	2.01	0.42
1:S6:477:TRP:CG	4:Wl:412:PRO:HD3	2.54	0.42
1:S6:493:GLU:HG3	1:S6:496:ARG:NH2	2.34	0.42
1:SA:263:VAL:HB	1:SA:279:SER:HA	2.01	0.42
1:SO:97:LEU:HD22	1:SP:96:GLY:C	2.44	0.42
1:SP:111:ASN:O	1:SP:114:SER:OG	2.29	0.42
1:SP:349:TRP:CE2	1:SP:351:ALA:HB3	2.54	0.42
1:SQ:110:VAL:HG12	1:SQ:111:ASN:H	1.84	0.42
1:SQ:406:GLY:O	1:SQ:410:THR:HG23	2.19	0.42
1:Sx:220:SER:OG	1:Sx:226:GLY:O	2.32	0.42
1:Sz:106:ALA:HB2	1:Sz:120:LYS:HD2	2.00	0.42
2:T1:202:LEU:HB3	2:T1:278:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T3:45:GLN:HG3	2:T3:68:GLN:NE2	2.34	0.42
2:T7:64:THR:HG22	2:T9:84:ARG:HG2	2.00	0.42
2:TF:218:GLU:CD	2:TG:201:LYS:HZ1	2.27	0.42
2:TF:231:ILE:HG22	2:TH:238:MET:SD	2.58	0.42
2:TG:204:VAL:HG13	2:TG:276:VAL:HG22	2.00	0.42
2:Td:47:LYS:HA	2:Td:50:VAL:HG23	2.01	0.42
2:Te:89:THR:HB	2:Te:120:ASN:HB3	1.99	0.42
3:UL:28:ASP:OD2	3:UM:64:ILE:HG13	2.19	0.42
3:UM:65:LYS:O	3:UM:217:ARG:NH1	2.52	0.42
3:Uq:13:ARG:HD2	3:Uu:9:GLY:C	2.44	0.42
3:Uq:143:ILE:C	3:Uq:161:LEU:HG	2.44	0.42
3:Uq:203:LEU:HB2	3:Uq:206:GLN:HB2	2.01	0.42
3:Ur:108:LEU:O	3:Ur:171:TYR:OH	2.21	0.42
3:Vp:109:VAL:HA	3:Vp:178:ILE:HD13	2.01	0.42
3:Vs:28:ASP:OD2	3:Vu:64:ILE:HG13	2.19	0.42
3:Vs:90:PHE:HE1	3:Vs:178:ILE:HG23	1.84	0.42
4:WI:388:ASN:O	4:WI:388:ASN:ND2	2.52	0.42
4:WK:52:TYR:HD2	4:WK:70:ILE:HG23	1.84	0.42
4:Wj:7:ILE:HG12	4:Wl:24:ILE:N	2.34	0.42
4:Wk:479:LYS:HG2	4:Wk:480:LEU:N	2.34	0.42
4:Wk:520:GLY:O	4:Wo:591:PRO:HA	2.18	0.42
4:Wm:576:THR:N	4:Wo:535:THR:O	2.45	0.42
4:Wn:326:MET:HB2	4:Wn:326:MET:HE3	1.75	0.42
4:Wn:558:ASP:OD1	4:Wn:561:GLU:HG3	2.19	0.42
4:Wo:18:TYR:HB2	4:Wo:21:LYS:HG2	2.01	0.42
4:Wo:164:ARG:HB2	4:Wo:245:GLU:HG2	2.01	0.42
4:Wo:304:ILE:HB	4:Wo:309:LEU:HG	1.99	0.42
4:XI:65:GLY:O	4:XJ:45:SER:OG	2.30	0.42
4:XK:135:LEU:HA	4:XK:144:GLU:O	2.18	0.42
4:Xj:195:HIS:O	4:Xj:196:ARG:HB2	2.19	0.42
4:Xk:117:ILE:HG22	4:Xk:143:TRP:HB2	2.00	0.42
4:Xk:192:ARG:HB2	4:Xk:245:GLU:O	2.19	0.42
4:Xk:313:PHE:CD2	4:Xk:320:LEU:HD21	2.54	0.42
4:Xm:103:ASN:CG	4:Xm:104:VAL:H	2.26	0.42
4:Xn:163:ALA:O	4:Xn:246:THR:HG22	2.18	0.42
5:YC:98:GLU:O	5:YC:99:GLU:HG2	2.19	0.42
5:YC:180:ILE:HA	5:YC:219:TRP:CH2	2.54	0.42
5:YC:329:ILE:HD11	5:YC:350:PHE:HE1	1.84	0.42
5:YC:428:GLN:H	5:YC:432:ALA:HB2	1.83	0.42
5:YC:777:LEU:HD23	5:YC:809:TRP:CG	2.54	0.42
5:YC:856:ASN:CB	8:eB:495:PRO:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:715:LEU:HD21	6:Zb:54:VAL:HG21	2.01	0.42
5:YX:917:LYS:HA	5:YX:917:LYS:HD2	1.82	0.42
5:YX:935:LYS:HD2	5:YX:954:GLU:HG2	2.01	0.42
5:YY:453:ASP:HB3	5:YY:474:GLU:O	2.19	0.42
5:YY:914:ASN:OD1	5:YY:1011:ARG:NE	2.41	0.42
5:Yc:108:TYR:CD1	5:Yc:127:PHE:HB3	2.54	0.42
5:Yc:867:LYS:HA	5:Yc:893:ILE:O	2.19	0.42
5:Yx:7:SER:OG	5:Yx:8:VAL:N	2.52	0.42
5:Yx:737:THR:OG1	8:fU:215:VAL:HG11	2.19	0.42
5:Yx:924:GLY:C	5:Yx:926:PRO:HD3	2.44	0.42
5:Yy:301:PRO:HB2	5:Yy:305:TYR:HA	2.01	0.42
5:Yy:345:TYR:O	5:Yy:346:SER:OG	2.32	0.42
5:Yy:914:ASN:CG	5:Yy:1011:ARG:HE	2.22	0.42
6:ZZ:246:THR:HA	6:ZZ:332:PHE:O	2.19	0.42
7:b0:134:VAL:HG12	7:b0:140:ILE:HA	2.00	0.42
7:b4:35:TRP:O	7:b4:54:PHE:HA	2.18	0.42
7:b4:159:GLU:HB3	7:b4:163:LEU:HA	2.01	0.42
7:b5:386:ALA:O	7:b5:390:GLN:NE2	2.51	0.42
7:b8:571:ARG:HA	7:b8:571:ARG:HD3	1.89	0.42
7:bN:626:THR:HG22	7:cL:641:ASN:HB2	2.00	0.42
7:bO:97:GLY:O	7:bO:147:THR:OG1	2.26	0.42
7:bO:403:CYS:O	7:bO:558:ASN:ND2	2.51	0.42
7:bP:456:TYR:CZ	7:bP:465:ASN:HB3	2.54	0.42
7:bR:561:LYS:HG2	7:cP:642:PHE:CE2	2.54	0.42
7:bY:365:ARG:HA	7:bY:400:ARG:NH2	2.33	0.42
7:bY:638:ILE:HG12	7:dZ:623:PHE:HB3	2.01	0.42
7:cB:91:ASN:OD1	7:cB:91:ASN:N	2.52	0.42
7:cB:202:GLU:H	7:cB:202:GLU:HG3	1.56	0.42
7:cD:527:GLY:HA2	7:cD:533:TYR:CD2	2.54	0.42
7:cE:35:TRP:O	7:cE:54:PHE:HA	2.18	0.42
7:cF:462:ASN:HB2	7:cF:464:VAL:HG22	2.00	0.42
7:cG:143:ILE:HD12	7:cG:145:ILE:HD11	2.00	0.42
7:cJ:49:ASP:OD1	7:cJ:49:ASP:N	2.52	0.42
7:cK:41:ILE:HD11	7:cK:361:PHE:HB3	2.01	0.42
7:cK:313:ASP:OD1	7:cK:313:ASP:N	2.52	0.42
7:cM:7:GLY:C	7:cM:8:ILE:HD12	2.44	0.42
7:cM:79:ARG:HD2	7:cM:370:VAL:HG13	2.01	0.42
7:cN:31:GLY:HA2	7:cN:355:LEU:HD21	2.01	0.42
7:cN:69:MET:O	7:cN:73:GLN:HG2	2.18	0.42
7:cN:302:LYS:HA	7:cN:302:LYS:HD3	1.83	0.42
7:cN:410:PRO:O	7:cN:413:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:510:ARG:HG2	7:cO:511:GLN:N	2.34	0.42
7:cP:229:GLU:H	7:cP:229:GLU:HG2	1.61	0.42
7:dS:72:LEU:HD13	7:dS:72:LEU:HA	1.86	0.42
7:dT:18:THR:HG22	21:uR:-1:UNK:O	2.19	0.42
7:dT:515:ASP:OD1	7:dU:7:GLY:HA3	2.18	0.42
7:dV:602:TYR:CE2	7:dV:632:ALA:HA	2.53	0.42
7:dW:72:LEU:HD13	7:dW:72:LEU:HA	1.77	0.42
7:dW:526:THR:OG1	7:dW:527:GLY:N	2.51	0.42
8:eB:115:THR:HB	8:eB:296:THR:HG23	2.01	0.42
8:eU:209:TRP:HB3	8:eU:225:TYR:CE1	2.52	0.42
8:eW:103:LYS:H	8:eW:103:LYS:HG2	1.61	0.42
8:eW:134:TYR:CE2	8:eW:142:PRO:HG3	2.53	0.42
8:eW:209:TRP:HB2	8:eW:223:ILE:HG23	2.00	0.42
8:eW:216:HIS:O	8:eW:217:ALA:C	2.61	0.42
8:f9:508:ARG:HG2	8:f9:508:ARG:O	2.18	0.42
8:fA:286:PHE:N	8:fA:302:GLU:OE2	2.40	0.42
8:fB:209:TRP:HB3	8:fB:225:TYR:CE1	2.53	0.42
8:fB:506:LYS:HZ2	8:fB:628:THR:HA	1.83	0.42
8:fB:569:ILE:HD13	8:fB:609:ILE:HG23	2.00	0.42
8:fU:242:GLU:O	8:fU:255:ASN:HB2	2.19	0.42
8:fW:90:VAL:HG22	8:fW:100:PRO:HG3	2.01	0.42
9:gE:162:PRO:O	9:gE:166:ILE:HG12	2.19	0.42
11:hI:118:ARG:HA	11:hI:118:ARG:HD2	1.82	0.42
11:hJ:17:ARG:HH11	11:hJ:118:ARG:HD3	1.85	0.42
11:hX:97:ASN:HB3	17:q3:5:GLU:HG2	2.01	0.42
11:hi:63:ASP:HB3	11:hu:147:ASN:HB3	2.01	0.42
11:hj:10:PHE:HD2	11:hj:13:GLY:HA2	1.83	0.42
11:hp:73:VAL:HG12	11:hp:74:MET:O	2.19	0.42
12:iD:86:ARG:HE	12:iD:86:ARG:HB2	1.64	0.42
14:k3:1:MET:HB3	14:k3:71:TRP:HE1	1.84	0.42
16:o6:110:LEU:HD13	16:o6:110:LEU:HA	1.84	0.42
16:pB:38:PHE:HB3	16:pB:39:PRO:HD3	2.00	0.42
17:q9:24:CYS:HB3	17:q9:125:ILE:HD13	2.01	0.42
1:S0:99:ARG:O	1:S0:114:SER:HA	2.19	0.42
1:S1:260:ARG:HH21	1:S3:276:ASP:CG	2.24	0.42
1:S1:322:THR:HG23	1:S2:327:GLN:HE21	1.84	0.42
1:S1:402:GLY:HA3	1:S3:395:MET:O	2.18	0.42
1:S1:442:MET:HA	1:S3:512:THR:HA	2.01	0.42
1:S2:170:ILE:O	1:S2:174:ALA:HB2	2.19	0.42
1:S3:77:THR:HG22	1:S3:80:THR:H	1.84	0.42
1:S6:310:ASN:OD1	1:S6:311:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SA:434:VAL:HG13	1:Sy:519:LEU:HA	2.01	0.42
1:SO:176:ILE:HG23	1:SO:177:ALA:N	2.34	0.42
1:Sw:62:THR:O	1:Sw:66:VAL:HG13	2.19	0.42
1:Sw:333:THR:OG1	1:Sw:335:ASN:OD1	2.21	0.42
1:Sx:232:THR:HG22	1:Sx:235:GLU:HG3	2.00	0.42
2:T1:7:LYS:HD3	2:T3:39:TYR:CG	2.53	0.42
2:T3:193:HIS:HD2	2:T3:260:TYR:CE1	2.38	0.42
2:T7:111:ASN:O	2:T7:143:TYR:HA	2.18	0.42
2:TH:121:PRO:HB3	2:TH:140:THR:HG22	2.00	0.42
2:TH:126:ALA:HB1	2:TH:160:TRP:CD1	2.54	0.42
2:Td:35:PHE:O	2:Td:39:TYR:HD1	2.03	0.42
2:Td:50:VAL:O	2:Td:52:ASN:N	2.50	0.42
2:Td:106:CYS:SG	2:Td:149:ARG:NH2	2.90	0.42
2:Tg:86:ASP:HA	2:Tg:110:ILE:HG13	2.01	0.42
2:Ti:79:VAL:N	2:Ti:97:ILE:O	2.52	0.42
3:UM:88:TRP:O	3:UM:155:LYS:HA	2.18	0.42
3:Uq:110:PHE:C	3:Uu:44:ALA:HA	2.44	0.42
3:Uq:199:GLN:OE1	3:Uq:214:HIS:NE2	2.47	0.42
3:Ur:168:LEU:HB2	3:Ur:180:GLN:OE1	2.19	0.42
3:Uu:7:LYS:HB3	4:Wk:318:GLN:HE22	1.83	0.42
3:VM:17:PHE:CE1	3:VM:45:LYS:HB3	2.54	0.42
3:VM:70:ILE:HA	3:VM:215:PHE:O	2.18	0.42
3:Vp:86:ASP:CG	3:Vp:180:GLN:HE21	2.27	0.42
3:Vq:126:VAL:HG12	3:Vq:130:ARG:NH1	2.34	0.42
3:Vq:172:SER:O	4:Xo:339:GLU:HB3	2.19	0.42
3:Vr:85:THR:HB	3:Vr:184:SER:HB3	2.01	0.42
3:Vt:73:ASN:ND2	3:Vt:77:VAL:O	2.52	0.42
4:Wl:557:TYR:O	4:Wl:566:TYR:OH	2.32	0.42
4:Wj:194:LYS:HG2	4:Wj:198:ASN:HA	2.01	0.42
4:Wj:335:ASP:OD1	4:Wj:335:ASP:N	2.52	0.42
4:Wk:569:TYR:OH	4:Wm:571:GLU:OE2	2.32	0.42
4:Wl:113:SER:OG	4:Wl:114:GLY:N	2.50	0.42
4:Wl:292:PRO:O	4:Wl:294:SER:N	2.47	0.42
4:Wm:170:GLU:O	4:Wm:171:VAL:HG12	2.19	0.42
4:Wo:501:LEU:HD13	4:Wo:512:PRO:HG2	2.02	0.42
4:XI:264:ARG:HB3	4:XK:326:MET:SD	2.59	0.42
4:XI:490:TRP:NE1	4:XI:515:THR:O	2.52	0.42
4:XJ:591:PRO:HA	4:XK:520:GLY:O	2.19	0.42
4:Xk:501:LEU:HD13	4:Xk:512:PRO:HG2	2.00	0.42
4:Xl:253:GLN:HB2	4:Xl:255:ARG:HE	1.83	0.42
4:Xn:559:PRO:HG3	5:Yx:228:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xo:180:VAL:HG12	4:Xo:228:PHE:O	2.19	0.42
5:YC:120:ASN:HB2	5:YC:155:PRO:O	2.19	0.42
5:YC:449:LYS:HD2	6:ZZ:74:HIS:NE2	2.34	0.42
5:YC:676:SER:CB	5:YC:683:TYR:HB3	2.50	0.42
5:YC:695:PRO:O	5:YC:725:ARG:NH1	2.53	0.42
5:YX:189:ARG:HB2	5:YX:203:GLU:OE2	2.19	0.42
5:YX:1027:GLN:NE2	6:ZZ:315:ARG:HH22	2.17	0.42
5:YY:867:LYS:HB3	5:YY:895:LEU:HD23	2.01	0.42
5:Yc:113:MET:HE2	5:Yc:612:TRP:CD1	2.53	0.42
5:Yc:121:LYS:HG2	5:Yc:158:VAL:HG13	2.00	0.42
5:Yc:371:ILE:CG2	5:Yc:496:SER:HB2	2.49	0.42
5:Yx:900:ILE:HD12	6:ab:311:TYR:CE1	2.54	0.42
6:ZD:46:PRO:HG3	6:ZD:267:LYS:HD2	2.00	0.42
6:ZD:192:PHE:CG	6:ZD:238:LEU:HD21	2.53	0.42
6:ZZ:210:VAL:HG11	6:ZZ:242:VAL:HG21	2.01	0.42
6:Za:173:ARG:NH1	6:Za:227:ASP:OD2	2.51	0.42
6:aD:138:ASP:OD1	6:aD:138:ASP:N	2.48	0.42
6:aZ:275:ILE:HG12	6:aZ:309:MET:HB3	2.01	0.42
7:b0:324:PHE:HD1	7:b0:325:ALA:N	2.17	0.42
7:b3:152:ALA:O	7:b3:156:GLU:HG2	2.18	0.42
7:b5:114:ASP:HB2	7:b5:131:ILE:HG13	2.00	0.42
7:b5:470:LEU:HD11	7:b5:499:ILE:HG21	2.00	0.42
7:b7:253:PRO:HG2	7:b7:255:TYR:CE1	2.54	0.42
7:b7:430:ARG:HG3	7:b7:522:ILE:HD11	2.00	0.42
7:b9:108:SER:O	7:b9:177:GLY:HA2	2.18	0.42
7:bO:521:ALA:HB1	7:bO:541:ALA:HA	2.01	0.42
7:bR:31:GLY:HA3	7:bR:64:TYR:CD2	2.54	0.42
7:cA:36:GLY:O	7:cA:82:ARG:NH1	2.47	0.42
7:cA:269:PHE:CE2	7:cA:280:ALA:HB1	2.55	0.42
7:cB:37:PRO:HG3	7:cB:226:TYR:CZ	2.55	0.42
7:cB:151:ILE:O	7:cB:155:LYS:HG2	2.20	0.42
7:cB:574:GLU:HG2	7:cB:575:LEU:N	2.34	0.42
7:cF:108:SER:O	7:cF:177:GLY:HA2	2.19	0.42
7:cF:430:ARG:HG3	7:cF:522:ILE:HD11	2.00	0.42
7:cG:163:LEU:HD22	7:cG:167:TRP:CE2	2.54	0.42
7:cI:650:ASP:C	7:cI:652:ASP:H	2.26	0.42
7:cJ:142:LYS:HE2	7:cJ:142:LYS:HB2	1.82	0.42
7:cJ:473:ASP:HB3	7:cJ:499:ILE:HG23	2.00	0.42
7:cL:470:LEU:HD12	7:cL:470:LEU:HA	1.82	0.42
7:cM:116:ILE:H	7:cM:116:ILE:HG12	1.73	0.42
7:cN:37:PRO:HG3	7:cN:226:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cN:220:PRO:HG2	7:cN:338:LEU:HD11	2.01	0.42
7:cN:451:ASP:OD2	7:cN:470:LEU:HB3	2.19	0.42
7:cO:66:MET:SD	7:cO:459:ASP:HB2	2.59	0.42
7:cO:404:LEU:HD22	7:cO:404:LEU:HA	1.92	0.42
7:dS:86:ARG:H	7:dS:86:ARG:HG3	1.54	0.42
7:dS:526:THR:HG22	7:dS:536:TYR:HB2	2.00	0.42
7:dZ:57:PRO:HG3	7:dZ:65:PHE:CD1	2.54	0.42
7:dZ:644:ALA:HB2	15:m2:110:PHE:CZ	2.55	0.42
8:eB:266:SER:OG	8:eB:267:THR:N	2.52	0.42
8:eB:334:GLU:O	8:eB:336:GLN:NE2	2.52	0.42
8:eU:352:ARG:HG3	8:eU:395:TYR:CZ	2.54	0.42
8:eW:565:GLU:OE1	8:eW:571:PRO:HD3	2.19	0.42
8:f9:123:ILE:HD13	8:f9:123:ILE:HA	1.74	0.42
8:f9:448:TYR:CG	8:f9:642:PHE:HB2	2.54	0.42
8:f9:546:ASP:HB3	8:f9:550:ILE:O	2.19	0.42
8:fA:199:LEU:HD22	8:fA:270:ILE:HB	2.00	0.42
8:fA:462:SER:O	8:fA:466:THR:HG23	2.19	0.42
8:fR:593:GLY:HA3	8:fR:604:TRP:HA	2.01	0.42
8:fS:419:ASN:OD1	8:fS:652:THR:OG1	2.37	0.42
8:fS:538:VAL:HB	8:fS:556:GLY:HA3	2.02	0.42
8:fW:592:ILE:HG12	8:fW:609:ILE:HD11	2.02	0.42
9:gG:183:ASP:OD2	9:gG:339:TYR:OH	2.32	0.42
9:gH:75:GLY:HA3	9:gH:76:PRO:HD3	1.91	0.42
11:hI:124:THR:HB	11:hJ:78:ALA:HA	2.02	0.42
11:hK:41:LEU:HA	11:hK:41:LEU:HD12	1.84	0.42
11:hL:58:ILE:HG13	17:q3:12:ILE:HG12	2.01	0.42
11:hX:121:LYS:HE2	11:hX:121:LYS:HB3	1.93	0.42
11:hn:1:MET:HE3	11:hn:1:MET:HB2	1.70	0.42
11:hp:53:PHE:HD1	11:hp:53:PHE:HA	1.72	0.42
11:hq:56:ARG:NH2	11:hs:96:GLY:O	2.47	0.42
11:hr:118:ARG:HA	11:hr:118:ARG:HD2	1.94	0.42
12:iC:357:MET:HB3	12:iC:357:MET:HE2	1.74	0.42
14:k3:134:TYR:CZ	14:k3:141:ARG:HG3	2.54	0.42
14:k8:71:TRP:CD1	14:k8:71:TRP:H	2.37	0.42
14:IV:5:PHE:HD1	16:pA:77:LEU:HB3	1.85	0.42
14:IV:33:LYS:HD2	14:IV:36:PHE:HB3	2.01	0.42
16:o0:202:ASN:OD1	16:o0:202:ASN:N	2.52	0.42
16:o1:101:SER:O	16:o1:102:THR:OG1	2.31	0.42
16:o2:202:ASN:ND2	16:o2:351:ILE:O	2.49	0.42
16:pA:213:PRO:HD2	16:pA:340:SER:O	2.19	0.42
17:q8:131:PRO:HG3	17:q8:158:LEU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:rc:18:UNK:C	18:rc:20:UNK:N	2.82	0.42
1:S1:84:ARG:HD3	1:S3:81:LEU:HD23	2.01	0.42
1:S1:292:GLY:HA3	1:S2:298:GLY:HA3	2.01	0.42
1:S3:451:PHE:CZ	1:S3:471:THR:HG22	2.47	0.42
1:S4:289:GLN:N	1:S4:294:GLN:OE1	2.52	0.42
1:S4:412:PRO:HG2	1:Sw:87:TYR:HA	2.01	0.42
1:S5:67:ILE:HD13	1:S5:84:ARG:HG3	2.00	0.42
1:S5:171:LYS:HA	1:S5:171:LYS:HD3	1.87	0.42
1:S6:14:ARG:HG2	1:S6:33:GLN:HG2	2.02	0.42
1:S6:314:ASN:OD1	1:S6:314:ASN:N	2.52	0.42
1:S7:62:THR:HG23	1:S7:64:GLN:H	1.85	0.42
1:S8:382:ARG:HG3	1:S8:383:TYR:CD2	2.54	0.42
1:S8:409:LEU:O	1:S8:415:ASN:ND2	2.34	0.42
1:S8:495:GLN:NE2	4:Wj:423:THR:O	2.51	0.42
1:SA:203:THR:HG22	1:Sy:212:PRO:HB2	2.01	0.42
1:SA:220:SER:OG	1:SA:226:GLY:O	2.37	0.42
1:SP:263:VAL:HG12	1:SP:278:SER:HB3	2.00	0.42
1:Sv:473:LYS:HZ3	4:XK:362:GLU:HA	1.83	0.42
1:Sy:476:ASP:OD1	1:Sy:476:ASP:N	2.48	0.42
2:T3:96:VAL:HG11	2:T3:109:PHE:CZ	2.54	0.42
2:T4:194:ARG:HH21	2:T4:259:ASN:HA	1.84	0.42
2:T9:105:ASP:O	2:T9:149:ARG:HD3	2.18	0.42
2:Tf:61:ILE:HG13	2:Th:38:ILE:HG12	2.00	0.42
3:UN:122:ALA:O	3:UN:126:VAL:HG23	2.19	0.42
3:Uu:142:ALA:HA	3:Uu:161:LEU:HB2	2.02	0.42
3:Vr:39:THR:HA	3:Vt:142:ALA:HB2	2.01	0.42
3:Vs:125:PHE:O	3:Vs:129:VAL:HG23	2.19	0.42
3:Vt:55:ALA:O	3:Vt:59:VAL:HG23	2.20	0.42
3:Vu:71:ILE:HD12	3:Vu:79:PRO:HG2	2.01	0.42
3:Vu:108:LEU:HD21	4:Xo:270:LEU:HG	2.01	0.42
3:Vu:196:LEU:N	3:Vu:214:HIS:O	2.51	0.42
4:Wl:543:ILE:HA	4:WJ:541:VAL:HG12	2.02	0.42
4:WJ:1:MET:N	4:WK:41:ASP:HB3	2.34	0.42
4:WJ:102:TRP:CE3	4:WJ:131:SER:HB2	2.54	0.42
4:WK:116:THR:HG22	4:WK:121:ALA:HB2	2.01	0.42
4:WK:164:ARG:HB2	4:WK:245:GLU:HG2	2.01	0.42
4:Wj:399:ILE:HD12	4:Wn:399:ILE:HG21	2.00	0.42
4:Wl:362:GLU:HB2	4:Wl:367:GLU:OE1	2.20	0.42
4:Wm:263:ILE:HD12	4:Wm:263:ILE:HA	1.93	0.42
4:Wm:372:ASP:OD1	4:Wm:372:ASP:N	2.50	0.42
4:Wn:12:ASP:OD2	5:YX:957:PRO:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wn:116:THR:O	4:Wn:142:ARG:HA	2.19	0.42
4:Wo:96:ARG:NH1	4:Wo:132:ASP:OD2	2.53	0.42
4:XI:340:VAL:C	4:XI:342:CYS:H	2.27	0.42
4:XI:454:TYR:HD1	4:XI:458:THR:HG21	1.84	0.42
4:XI:469:PRO:HA	4:XI:472:TYR:CZ	2.54	0.42
4:XJ:542:LEU:HD11	4:XK:569:TYR:HE2	1.83	0.42
4:XK:313:PHE:HA	4:XK:381:ILE:HA	2.00	0.42
4:XK:320:LEU:HD23	4:XK:358:VAL:HG23	2.01	0.42
4:Xj:9:ASN:C	4:Xj:11:VAL:H	2.20	0.42
4:Xl:265:LEU:O	4:Xl:378:GLY:HA2	2.19	0.42
4:Xl:309:LEU:HD22	4:Xl:321:ALA:HB2	2.00	0.42
4:Xm:150:GLN:C	4:Xm:151:ILE:HG13	2.43	0.42
4:Xo:357:SER:HB3	4:Xo:358:VAL:H	1.53	0.42
4:Xo:490:TRP:CD1	4:Xo:516:ALA:HA	2.54	0.42
5:YC:142:ILE:H	5:YC:546:GLU:HG2	1.84	0.42
5:YC:176:ILE:H	5:YC:176:ILE:HD13	1.82	0.42
5:YC:917:LYS:HA	5:YC:917:LYS:HD2	1.77	0.42
5:YX:365:CYS:HB3	5:YX:379:ILE:HG22	2.00	0.42
5:YX:378:LEU:HA	5:YX:403:ILE:HA	2.01	0.42
5:YX:860:SER:H	8:eU:368:LYS:HB3	1.84	0.42
5:YY:881:ARG:C	8:fs:341:THR:HG21	2.44	0.42
5:Yc:7:SER:OG	5:Yc:8:VAL:N	2.52	0.42
5:Yc:408:HIS:CE1	5:Yc:411:LYS:HE3	2.54	0.42
5:Yc:408:HIS:NE2	5:Yc:411:LYS:HE3	2.34	0.42
5:Yc:981:GLN:HG2	5:Yc:982:LEU:H	1.85	0.42
5:Yx:21:VAL:HG11	5:Yx:100:PHE:CE1	2.54	0.42
5:Yx:567:THR:HB	5:Yx:620:LYS:HZ2	1.83	0.42
5:Yx:745:LYS:H	5:Yx:745:LYS:HG2	1.57	0.42
5:Yy:149:GLU:CD	5:Yy:149:GLU:H	2.27	0.42
6:aa:44:SER:HB3	6:aa:76:MET:SD	2.59	0.42
6:aa:174:GLY:HA3	6:aa:180:ILE:HG12	2.00	0.42
6:ab:197:ASP:OD1	6:ab:197:ASP:N	2.52	0.42
6:ac:246:THR:HA	6:ac:332:PHE:O	2.19	0.42
7:b0:42:LYS:HE3	7:b0:42:LYS:HB3	1.89	0.42
7:b3:381:GLU:HB3	7:b3:385:THR:HG23	2.01	0.42
7:b6:410:PRO:O	7:b6:413:THR:HG22	2.18	0.42
7:b6:654:LEU:HD23	7:b6:654:LEU:HA	1.79	0.42
7:b8:539:LYS:HG2	7:b8:550:ARG:NH2	2.34	0.42
7:b9:269:PHE:HE1	7:b9:282:ILE:HG12	1.84	0.42
7:b9:455:LYS:HD2	7:b9:502:VAL:HG22	2.02	0.42
7:b9:574:GLU:HG2	7:b9:575:LEU:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bN:112:VAL:HG13	7:bN:132:THR:HA	2.00	0.42
7:bO:299:ARG:H	7:bO:299:ARG:HG2	1.66	0.42
7:bY:98:ASN:HB2	7:bY:188:ILE:HD12	2.00	0.42
7:cA:104:SER:HB2	7:cA:181:VAL:HB	2.02	0.42
7:cA:108:SER:O	7:cA:177:GLY:HA2	2.18	0.42
7:cB:16:GLN:HE21	7:cB:16:GLN:HB2	1.53	0.42
7:cB:69:MET:O	7:cB:73:GLN:HG2	2.19	0.42
7:cC:202:GLU:H	7:cC:202:GLU:HG3	1.58	0.42
7:cC:273:PRO:HB3	7:cC:278:GLN:HB2	2.01	0.42
7:cD:315:PHE:HB3	7:cD:324:PHE:CD1	2.54	0.42
7:cD:441:PHE:CZ	7:cD:443:ILE:HD11	2.53	0.42
7:cF:244:TYR:CZ	7:cF:266:LYS:HD2	2.54	0.42
7:cG:352:ALA:HB2	7:cG:385:THR:HB	2.01	0.42
7:cG:455:LYS:HG3	7:cG:502:VAL:HG13	2.01	0.42
7:cG:504:LYS:HG2	7:cG:505:LEU:N	2.34	0.42
7:cI:296:SER:O	7:cI:311:ILE:HG13	2.19	0.42
7:cJ:572:LEU:O	7:cJ:573:PHE:C	2.62	0.42
7:cK:389:VAL:O	7:cK:393:VAL:HG23	2.19	0.42
7:cM:26:THR:HA	7:cM:77:ASP:O	2.20	0.42
7:cO:97:GLY:O	7:cO:147:THR:OG1	2.30	0.42
7:dS:225:LEU:HG	7:dS:226:TYR:CE1	2.55	0.42
7:dT:129:GLY:HA2	7:dT:146:PRO:HD3	2.01	0.42
7:dU:643:VAL:HG23	15:m5:109:ARG:HA	2.01	0.42
7:dW:635:ILE:H	7:dW:635:ILE:HG12	1.57	0.42
7:dZ:635:ILE:HG23	15:m2:65:MET:SD	2.59	0.42
8:eB:55:VAL:HG22	15:mT:47:ARG:NH1	2.34	0.42
8:eB:565:GLU:OE1	8:eB:571:PRO:HD3	2.19	0.42
8:eU:512:SER:N	8:eU:540:ILE:O	2.50	0.42
8:eW:499:ILE:HD11	8:eW:604:TRP:CZ3	2.54	0.42
8:fB:110:ILE:HG13	8:fB:111:MET:N	2.34	0.42
8:fR:46:TYR:CE1	15:m5:17:MET:HB2	2.54	0.42
8:fW:426:LEU:HD13	8:fW:657:PRO:HB3	2.01	0.42
8:fW:499:ILE:HD11	8:fW:604:TRP:CZ3	2.54	0.42
8:fW:596:ASN:OD1	8:fW:601:VAL:HG22	2.18	0.42
8:fr:103:LYS:H	8:fr:103:LYS:HG2	1.46	0.42
8:fs:508:ARG:HG2	8:fs:508:ARG:O	2.19	0.42
9:gG:517:ASP:OD1	9:gG:517:ASP:N	2.52	0.42
9:gH:554:MET:N	9:gH:554:MET:SD	2.92	0.42
11:hn:80:ASP:O	11:hn:84:LYS:HG3	2.19	0.42
11:hq:23:VAL:HG22	11:hq:36:CYS:SG	2.59	0.42
11:hq:116:TYR:CE1	11:hq:123:VAL:HG22	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hw:56:ARG:HH11	11:hw:56:ARG:HB3	1.83	0.42
11:hz:25:ILE:HG13	11:hz:32:PHE:HE2	1.84	0.42
11:hz:136:ASN:O	11:hz:136:ASN:ND2	2.49	0.42
12:iC:92:HIS:HB3	12:iF:241:ASN:HD22	1.84	0.42
12:iF:174:ARG:HE	12:iF:174:ARG:HB2	1.45	0.42
12:iF:260:ASP:OD1	12:iF:289:ARG:NH1	2.52	0.42
12:iF:309:LYS:HA	12:iF:355:LEU:O	2.19	0.42
12:iF:328:ASP:OD1	12:iF:329:SER:N	2.51	0.42
14:iV:119:LYS:HB2	14:iV:119:LYS:HE3	1.83	0.42
16:o0:93:ARG:HB3	16:o0:94:THR:H	1.53	0.42
16:o0:313:PRO:O	16:o0:351:ILE:HG12	2.20	0.42
16:pA:236:GLU:HB2	16:pA:288:SER:OG	2.20	0.42
16:pB:140:SER:OG	16:pB:201:GLU:OE1	2.29	0.42
16:pB:181:ILE:H	16:pB:181:ILE:HG13	1.54	0.42
1:S1:482:TYR:HD1	1:S2:462:ASN:HB3	1.85	0.42
1:S2:60:ILE:HG13	1:S2:75:ALA:O	2.19	0.42
1:S2:116:ILE:HG23	1:S2:120:LYS:HB2	2.00	0.42
1:S4:77:THR:HG23	1:S4:79:ALA:H	1.83	0.42
1:S5:233:GLN:HA	1:S5:236:VAL:HG22	2.00	0.42
1:S6:29:ILE:HG22	1:S6:30:THR:H	1.84	0.42
1:S6:212:PRO:HA	1:S6:215:PHE:HB3	2.01	0.42
1:SO:87:TYR:HA	1:Sv:412:PRO:CG	2.49	0.42
1:SP:110:VAL:HG12	1:SP:111:ASN:H	1.84	0.42
1:Sv:188:GLN:HB3	1:Sz:190:VAL:HG23	2.02	0.42
1:Sv:485:ASN:OD1	1:Sz:448:ALA:N	2.51	0.42
1:Sw:14:ARG:NH2	1:Sy:21:THR:OG1	2.53	0.42
1:Sw:288:ILE:HA	1:Sw:294:GLN:NE2	2.34	0.42
1:Sy:5:THR:HG23	4:Wo:196:ARG:NE	2.34	0.42
1:Sy:47:VAL:O	1:Sy:48:PRO:C	2.61	0.42
1:Sy:162:PRO:O	1:Sy:166:GLN:HG3	2.19	0.42
1:Sz:358:ALA:O	1:Sz:524:LYS:HD2	2.20	0.42
2:T2:7:LYS:HE2	2:T2:7:LYS:HB3	1.87	0.42
2:T2:24:LEU:HD23	2:T2:24:LEU:HA	1.84	0.42
2:T6:25:PHE:HD1	2:T8:15:ILE:HD11	1.83	0.42
2:Te:204:VAL:HG22	2:Te:276:VAL:HG22	2.01	0.42
2:Tg:194:ARG:HG3	2:Tg:195:THR:HG23	2.00	0.42
2:Ti:8:LYS:HD3	2:Ti:30:LYS:HG2	2.01	0.42
3:UL:16:ASP:OD1	3:UL:16:ASP:N	2.52	0.42
3:Uq:102:GLY:N	3:Uq:118:THR:OG1	2.52	0.42
3:Us:17:PHE:HD1	3:Us:47:PHE:HB2	1.84	0.42
3:Uu:71:ILE:HD12	3:Uu:79:PRO:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VM:80:GLU:HG2	3:VM:193:TRP:HD1	1.85	0.42
3:Vp:10:VAL:HG11	3:Vt:10:VAL:HG11	2.01	0.42
4:WI:180:VAL:HG13	4:WI:181:PHE:N	2.33	0.42
4:WJ:76:ARG:NH2	4:WJ:78:THR:OG1	2.52	0.42
4:Wj:299:ILE:O	4:Wj:301:GLY:N	2.52	0.42
4:Wj:492:GLU:OE2	4:Wn:483:GLN:NE2	2.49	0.42
4:Wk:13:ASP:OD1	4:Wk:14:GLY:N	2.51	0.42
4:Wl:6:ASN:O	4:Wl:17:ASP:HB2	2.19	0.42
4:Wl:326:MET:HE1	4:Wn:264:ARG:N	2.35	0.42
4:Wm:303:PRO:HB3	4:Wm:385:TRP:CZ2	2.54	0.42
4:XI:358:VAL:HG13	4:XI:369:LEU:HB2	2.00	0.42
4:XJ:213:GLY:HA3	4:XJ:231:ARG:HB3	2.00	0.42
4:XK:428:ILE:HG21	4:XK:599:ILE:HD13	2.01	0.42
4:XK:468:ASN:O	4:XK:471:THR:OG1	2.34	0.42
4:Xj:93:ILE:HD11	4:Xj:135:LEU:HD21	2.01	0.42
4:Xj:129:ARG:HG3	4:Xj:130:PHE:H	1.84	0.42
4:Xj:264:ARG:HB3	4:Xn:326:MET:CE	2.49	0.42
4:Xj:558:ASP:CG	4:Xj:559:PRO:HD3	2.45	0.42
4:Xk:544:VAL:HG22	4:Xo:569:TYR:CE1	2.54	0.42
4:Xm:338:ASP:HB3	4:Xm:349:TRP:HD1	1.83	0.42
4:Xo:344:VAL:HG12	4:Xo:349:TRP:N	2.33	0.42
5:YC:122:PHE:CE1	5:YC:135:VAL:HG21	2.52	0.42
5:YC:701:TRP:O	5:YC:702:GLU:HB2	2.20	0.42
5:YX:192:LEU:HA	5:YX:192:LEU:HD12	1.83	0.42
5:YX:737:THR:HB	5:YX:740:ILE:HD12	2.01	0.42
5:YY:154:SER:O	5:YY:154:SER:OG	2.35	0.42
5:Yx:191:TYR:CD1	5:Yx:235:LYS:HA	2.55	0.42
5:Yx:302:ALA:H	5:Yx:350:PHE:HE2	1.67	0.42
5:Yy:104:ALA:C	5:Yy:105:THR:HG1	2.27	0.42
5:Yy:493:ASP:HB3	5:Yy:504:GLN:OE1	2.19	0.42
5:Yy:872:SER:HB3	6:ac:324:GLN:HG3	2.00	0.42
5:Yy:1009:ASN:O	5:Yy:1010:LYS:HG2	2.19	0.42
6:Za:192:PHE:CG	6:Za:238:LEU:HD21	2.55	0.42
7:b3:66:MET:HG2	7:b3:468:VAL:HG21	2.02	0.42
7:b3:372:LEU:HD12	7:b3:404:LEU:HB3	2.01	0.42
7:b6:273:PRO:HB3	7:b6:278:GLN:HB2	2.01	0.42
7:b8:135:ASP:OD1	7:b8:136:ALA:N	2.52	0.42
7:bO:133:GLU:HG3	7:bO:142:LYS:HD3	2.01	0.42
7:bO:261:ARG:HG3	7:bO:262:ALA:N	2.33	0.42
7:bP:31:GLY:HA3	7:bP:64:TYR:CD2	2.54	0.42
7:bP:557:PHE:O	7:bP:561:LYS:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bY:430:ARG:O	7:bY:430:ARG:HD3	2.20	0.42
7:cA:373:PHE:HB2	7:cA:405:VAL:HG22	2.01	0.42
7:cB:67:SER:HB3	7:cB:472:ALA:HB2	2.01	0.42
7:cB:99:ILE:HD12	7:cB:150:ILE:HG21	2.01	0.42
7:cC:153:LYS:O	7:cC:157:VAL:HG22	2.20	0.42
7:cC:617:VAL:HG22	7:cC:622:GLU:HB2	2.02	0.42
7:cD:108:SER:O	7:cD:177:GLY:HA2	2.19	0.42
7:cD:253:PRO:HG2	7:cD:255:TYR:CE1	2.55	0.42
7:cD:315:PHE:CE2	7:cD:325:ALA:HB3	2.54	0.42
7:cG:57:PRO:HB3	7:cG:65:PHE:HB3	2.01	0.42
7:cH:430:ARG:O	7:cH:430:ARG:HD3	2.20	0.42
7:cL:299:ARG:HD2	7:cL:310:TYR:CE1	2.54	0.42
7:cM:571:ARG:HA	7:cM:571:ARG:HD3	1.85	0.42
7:cN:540:THR:HG23	7:cN:551:ILE:HG12	2.00	0.42
7:cN:653:GLU:H	7:cN:653:GLU:HG2	1.68	0.42
7:cO:116:ILE:HD13	7:cO:171:ILE:HG23	2.01	0.42
7:cO:279:TYR:OH	7:cO:332:GLU:HA	2.20	0.42
7:dU:550:ARG:NH1	7:dU:636:ASN:OD1	2.47	0.42
7:dU:601:ILE:H	7:dU:601:ILE:HG12	1.48	0.42
7:dW:526:THR:HG22	7:dW:536:TYR:HB2	2.02	0.42
7:dW:640:LEU:HD11	7:dZ:10:LEU:HD21	2.01	0.42
7:dZ:355:LEU:HD23	7:dZ:355:LEU:HA	1.86	0.42
8:eB:392:ILE:HD13	8:eB:408:ILE:HG12	2.00	0.42
8:eU:127:ARG:NE	8:eU:148:ARG:O	2.48	0.42
8:eW:555:ILE:HB	8:eW:592:ILE:HD11	2.02	0.42
8:fA:63:ASN:ND2	8:fB:60:LEU:HB3	2.34	0.42
8:fA:82:THR:O	14:IV:15:THR:HG21	2.20	0.42
8:fB:209:TRP:HB2	8:fB:223:ILE:HG23	2.01	0.42
8:fB:452:VAL:HG22	8:fB:459:PHE:HA	2.01	0.42
8:fR:605:ASN:HB3	8:fR:608:LYS:NZ	2.34	0.42
8:fU:239:GLY:O	8:fU:261:LYS:HG3	2.20	0.42
8:fU:582:ASN:CG	8:fU:586:ARG:HH11	2.27	0.42
8:fr:335:THR:OG1	8:fr:336:GLN:N	2.52	0.42
8:fs:111:MET:HB2	8:fs:304:PRO:HG3	2.01	0.42
8:fs:324:ARG:NH1	8:fs:358:GLN:O	2.53	0.42
11:hj:80:ASP:O	11:hj:84:LYS:HG3	2.18	0.42
11:hm:49:ILE:O	11:hm:49:ILE:HG12	2.17	0.42
11:hn:124:THR:HB	11:hu:78:ALA:HA	2.01	0.42
11:ho:62:GLY:O	11:hx:118:ARG:NH2	2.53	0.42
11:hr:140:LEU:HD13	11:hr:153:PHE:HB3	2.00	0.42
11:hv:47:GLU:OE1	11:hx:148:ASN:ND2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iC:334:LYS:HE2	12:iC:334:LYS:HB3	1.77	0.42
12:iF:104:ILE:HD12	16:pA:150:LEU:HD11	2.01	0.42
14:k7:1:MET:HB3	14:k7:71:TRP:HE1	1.84	0.42
14:kV:119:LYS:HE3	14:kV:119:LYS:HB2	1.89	0.42
15:m5:19:TRP:CE3	15:m5:20:ASN:HB3	2.54	0.42
15:nT:14:GLU:O	15:nT:16:LYS:N	2.50	0.42
16:o1:64:PHE:CD2	16:o1:295:VAL:HB	2.54	0.42
16:o2:110:LEU:HD13	16:o2:110:LEU:HA	1.85	0.42
16:pB:354:LEU:HD21	16:pB:359:LEU:HD11	2.01	0.42
17:q3:199:ILE:HD13	17:q3:218:MET:HE1	2.02	0.42
18:rd:11:UNK:O	18:rd:14:UNK:N	2.53	0.42
1:S0:29:ILE:O	1:S0:30:THR:OG1	2.28	0.42
1:S0:90:ALA:HB2	1:S0:96:GLY:C	2.44	0.42
1:S0:334:GLN:HG3	1:S0:337:ILE:HD12	2.01	0.42
1:S2:440:GLN:OE1	1:S2:511:GLU:HG3	2.20	0.42
1:S4:147:LEU:HD22	1:S4:168:LEU:HG	2.01	0.42
1:S4:196:VAL:HG22	1:S4:214:THR:HG22	2.01	0.42
1:S4:498:SER:O	1:S8:422:LYS:NZ	2.52	0.42
1:S5:121:PHE:HZ	1:S7:125:LEU:HB2	1.84	0.42
1:SO:173:ILE:HD11	1:SQ:174:ALA:HB2	2.00	0.42
1:SO:401:ARG:HE	1:SQ:397:GLY:HA2	1.84	0.42
1:SP:118:PRO:HA	1:SP:121:PHE:HB3	2.00	0.42
1:SP:173:ILE:HD12	1:SP:176:ILE:HG21	2.01	0.42
1:Sv:251:ASN:HD22	1:Sx:239:ASN:CG	2.26	0.42
1:Sv:301:ARG:HB3	1:Sz:295:ILE:HG13	2.02	0.42
1:Sw:176:ILE:HG23	1:Sw:177:ALA:N	2.34	0.42
1:Sw:444:TYR:CZ	1:Sy:504:ARG:HD2	2.54	0.42
1:Sw:474:GLY:HA2	1:Sy:472:ARG:NH1	2.34	0.42
1:Sx:496:ARG:NH1	1:Sx:501:THR:OG1	2.53	0.42
1:Sy:286:ASP:OD1	1:Sy:286:ASP:N	2.51	0.42
1:Sz:473:LYS:HG2	4:XK:363:ASN:HB2	2.00	0.42
2:T8:14:GLU:HG2	2:T8:17:ASN:HD21	1.84	0.42
2:TF:98:ILE:HD13	2:TF:107:VAL:HG11	2.00	0.42
2:Te:100:ARG:HB2	2:Te:127:ILE:HG21	2.01	0.42
2:Ti:5:GLU:OE1	2:Ti:33:SER:OG	2.25	0.42
3:VL:78:SER:OG	3:VL:193:TRP:HB2	2.19	0.42
3:Vt:66:ASP:O	3:Vt:69:THR:OG1	2.36	0.42
3:Vt:85:THR:HB	3:Vt:184:SER:HB3	2.01	0.42
3:Vt:106:THR:HG21	4:Xn:269:LYS:HG3	2.01	0.42
3:Vt:171:TYR:HB2	4:Xl:339:GLU:HB2	2.01	0.42
3:Vu:120:MET:HE1	3:Vu:128:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:213:GLY:O	4:WI:221:GLU:HB2	2.20	0.42
4:WI:402:GLU:HG3	4:WI:406:LEU:HD12	2.00	0.42
4:WI:422:LEU:HD21	4:WK:464:VAL:HG21	2.00	0.42
4:WK:37:LEU:O	4:WK:48:ALA:HB2	2.19	0.42
4:WK:39:ASP:CG	4:WK:48:ALA:HB1	2.45	0.42
4:WK:157:SER:HB3	4:WK:160:SER:OG	2.19	0.42
4:Wj:468:ASN:O	4:Wj:471:THR:OG1	2.34	0.42
4:Wj:569:TYR:H	4:Wl:550:VAL:HB	1.83	0.42
4:Wm:186:TYR:OH	4:Wm:191:ILE:HB	2.19	0.42
4:Wm:200:LEU:HD12	4:Wm:200:LEU:HA	1.79	0.42
4:Wm:222:LEU:HG	4:Wm:224:PRO:HD2	2.02	0.42
4:Wm:299:ILE:HG22	4:Wm:301:GLY:N	2.33	0.42
4:Wn:82:PRO:O	4:Wn:143:TRP:HH2	2.02	0.42
4:Wn:206:PHE:HB3	4:Wn:223:VAL:HG13	2.01	0.42
4:Wn:214:SER:HB2	4:Wn:215:PRO:HD2	2.00	0.42
4:Wo:194:LYS:O	4:Wo:242:VAL:HA	2.19	0.42
4:Wo:562:SER:C	4:Wo:564:PRO:HD3	2.44	0.42
4:XI:290:SER:HB3	4:XI:370:HIS:CE1	2.54	0.42
4:XI:394:LEU:HG	4:XI:395:THR:H	1.84	0.42
4:XJ:255:ARG:NH2	4:XK:249:ASP:HB2	2.34	0.42
4:XJ:257:SER:O	4:XJ:258:TYR:HB3	2.19	0.42
4:XJ:562:SER:OG	5:Yc:220:LYS:HA	2.20	0.42
4:XK:132:ASP:OD1	4:XK:132:ASP:N	2.50	0.42
4:Xj:193:VAL:O	4:Xj:199:GLU:N	2.47	0.42
4:Xk:89:TYR:O	4:Xk:91:LYS:HG2	2.18	0.42
4:Xl:72:THR:OG1	4:Xl:101:THR:O	2.38	0.42
4:Xl:204:ASP:N	4:Xl:204:ASP:OD1	2.50	0.42
4:Xl:229:ASN:OD1	4:Xl:230:ILE:N	2.52	0.42
4:Xn:357:SER:HB3	4:Xn:358:VAL:H	1.58	0.42
4:Xo:326:MET:HE3	4:Xo:326:MET:HB2	1.70	0.42
5:YC:967:ASP:OD1	5:YC:967:ASP:N	2.53	0.42
5:YY:35:PHE:O	5:YY:82:VAL:HA	2.19	0.42
5:YY:112:ASN:HD22	5:YY:118:LEU:HD13	1.85	0.42
5:Yc:98:GLU:OE1	5:Yc:98:GLU:N	2.42	0.42
5:Yc:237:VAL:O	5:Yc:238:TYR:HB3	2.19	0.42
5:Yc:248:LEU:HD12	5:Yc:311:ILE:HD11	2.01	0.42
5:Yc:587:PHE:O	5:Yc:595:ILE:HG12	2.19	0.42
5:Yy:170:GLU:O	5:Yy:538:ASP:HA	2.20	0.42
6:ZD:198:VAL:HG13	6:ZD:202:ARG:HG3	2.01	0.42
6:ZZ:19:GLU:OE2	6:ZZ:23:ASN:ND2	2.50	0.42
6:aE:40:THR:HG21	6:aE:275:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:aZ:192:PHE:CG	6:aZ:238:LEU:HD21	2.54	0.42
6:aZ:267:LYS:HB3	6:aZ:270:ARG:HH22	1.84	0.42
6:aZ:270:ARG:CZ	6:aZ:317:PRO:HB3	2.48	0.42
7:b0:654:LEU:HA	7:b0:654:LEU:HD23	1.68	0.42
7:b4:654:LEU:HD23	7:b4:654:LEU:HA	1.70	0.42
7:b6:94:PRO:HD3	7:b6:222:VAL:O	2.19	0.42
7:b7:135:ASP:HB3	7:b7:139:LYS:HB2	2.02	0.42
7:b8:91:ASN:OD1	7:b8:91:ASN:N	2.52	0.42
7:b8:440:ASN:OD1	7:b8:440:ASN:N	2.52	0.42
7:b8:577:ASN:C	7:b8:581:ARG:HH21	2.27	0.42
7:b8:645:THR:HB	7:b8:650:ASP:OD1	2.19	0.42
7:bN:495:ASN:OD1	7:bN:495:ASN:N	2.52	0.42
7:bO:39:PHE:HB3	7:bO:361:PHE:CE1	2.55	0.42
7:bP:470:LEU:HD12	7:bP:470:LEU:HA	1.84	0.42
7:bR:274:GLN:N	7:bR:278:GLN:OE1	2.48	0.42
7:bR:410:PRO:O	7:bR:413:THR:HG22	2.19	0.42
7:cA:641:ASN:HA	7:cB:11:LYS:O	2.19	0.42
7:cD:430:ARG:HG3	7:cD:522:ILE:HD11	2.00	0.42
7:cG:571:ARG:HA	7:cG:571:ARG:HD3	1.90	0.42
7:cL:46:ASN:OD1	7:cL:47:GLU:N	2.52	0.42
7:cM:566:ARG:HG3	7:cM:569:LYS:HE2	2.02	0.42
7:dU:42:LYS:HB3	7:dU:42:LYS:HE3	1.87	0.42
7:dW:582:SER:HA	7:dW:585:ARG:HG2	2.01	0.42
7:dZ:440:ASN:HD22	7:dZ:442:ASN:HB2	1.83	0.42
8:eB:209:TRP:CZ3	8:eB:212:LYS:HD2	2.55	0.42
8:eB:216:HIS:O	8:eB:217:ALA:C	2.62	0.42
8:eB:302:GLU:H	8:eB:302:GLU:HG2	1.59	0.42
8:eB:554:ILE:HG22	8:eB:589:TYR:HB3	2.01	0.42
8:eB:592:ILE:O	8:eB:608:LYS:HD2	2.19	0.42
8:eU:45:ASP:C	8:eU:47:ASP:N	2.77	0.42
8:eU:108:THR:OG1	8:eU:109:GLU:N	2.51	0.42
8:eU:521:ARG:O	8:eU:522:LYS:HD2	2.20	0.42
8:f9:397:LYS:HD3	8:f9:397:LYS:HA	1.85	0.42
8:f9:543:THR:CG2	8:f9:552:LYS:H	2.33	0.42
8:fA:163:PRO:HB2	8:fA:165:LEU:HD21	2.01	0.42
8:fA:536:TYR:HB2	8:fA:586:ARG:NH2	2.34	0.42
8:fB:157:LYS:C	8:fB:159:ASN:H	2.28	0.42
8:fS:242:GLU:OE1	8:fS:243:ILE:N	2.52	0.42
8:fS:327:GLU:O	8:fS:331:ILE:HG12	2.20	0.42
8:fU:647:ARG:HA	8:fU:647:ARG:HD3	1.95	0.42
8:fs:335:THR:HB	8:fs:344:ASP:CG	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fs:499:ILE:HD11	8:fs:604:TRP:CZ3	2.54	0.42
9:gH:277:LEU:HD23	9:gH:277:LEU:HA	1.89	0.42
9:gH:517:ASP:OD1	9:gH:517:ASP:N	2.52	0.42
9:gH:546:VAL:HG12	9:gH:548:GLY:H	1.84	0.42
11:hI:104:PRO:O	11:hI:108:LYS:HB2	2.20	0.42
11:hJ:121:LYS:HE2	11:hJ:121:LYS:HB3	1.92	0.42
11:hK:50:PRO:HA	11:hK:59:ASN:HA	2.02	0.42
11:he:16:ALA:O	11:hf:151:GLN:HB2	2.19	0.42
11:he:135:THR:O	11:ht:45:ILE:HA	2.19	0.42
11:he:142:LEU:HD22	11:ht:41:LEU:HD13	2.02	0.42
11:ho:95:GLN:HB3	11:hv:66:PHE:HZ	1.85	0.42
11:hw:56:ARG:HB3	11:hw:56:ARG:NH1	2.34	0.42
11:hw:93:ALA:O	11:hw:100:THR:OG1	2.34	0.42
14:k8:183:ASP:O	14:k8:186:ARG:HG3	2.20	0.42
15:m1:64:ASN:OD1	15:m1:64:ASN:N	2.52	0.42
15:nT:65:MET:HE3	15:nT:99:TYR:HA	2.01	0.42
16:o0:339:PRO:HD2	16:o0:342:PHE:HE2	1.85	0.42
16:o1:47:ASP:HB2	16:o1:56:ASP:HB2	2.00	0.42
16:o1:195:SER:O	16:o1:196:MET:HB2	2.20	0.42
16:o6:249:TYR:CE2	16:o6:264:PRO:HA	2.55	0.42
16:pA:178:THR:OG1	16:pA:184:ASP:OD2	2.28	0.42
16:pA:229:PHE:CE2	16:pA:346:ILE:HD13	2.55	0.42
16:pB:30:GLY:O	16:pB:255:ARG:NH1	2.53	0.42
17:q5:255:ARG:C	17:q5:257:ARG:H	2.26	0.42
17:q7:199:ILE:HG12	17:q7:218:MET:CE	2.49	0.42
17:q7:203:LEU:HB2	17:q7:212:THR:HG23	2.00	0.42
17:q9:192:PRO:O	17:q9:196:GLU:HB3	2.19	0.42
17:q9:255:ARG:C	17:q9:257:ARG:H	2.28	0.42
1:S0:49:ASP:HB2	1:S0:50:ALA:H	1.45	0.42
1:S0:302:ILE:HD12	1:S0:306:PHE:HB2	2.01	0.42
1:S1:24:ASN:ND2	1:S3:45:ASN:OD1	2.53	0.42
1:S1:309:ALA:HB3	1:S3:303:GLU:HA	2.02	0.42
1:S3:31:ASP:OD1	1:S3:31:ASP:N	2.52	0.42
1:S4:173:ILE:HB	1:S8:170:ILE:HG23	2.01	0.42
1:S4:265:LEU:HB3	1:S4:282:ALA:HB2	2.02	0.42
1:S5:150:ALA:HB3	1:S5:168:LEU:HD12	2.01	0.42
1:S6:170:ILE:HG12	1:S8:173:ILE:HB	2.01	0.42
1:S7:372:CYS:SG	1:S7:526:LYS:HB3	2.59	0.42
1:SA:188:GLN:N	1:SA:188:GLN:OE1	2.52	0.42
1:Sx:308:ILE:HD12	1:Sz:315:ILE:HG23	2.02	0.42
1:Sz:2:SER:HA	4:Wj:200:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T7:18:ALA:HB3	2:T7:23:ILE:HG23	2.01	0.42
2:T8:8:LYS:HD3	2:T8:30:LYS:HG2	2.01	0.42
2:T9:116:ILE:HD11	2:T9:122:LEU:HD12	2.01	0.42
2:TF:61:ILE:HG13	2:TG:38:ILE:HG12	2.00	0.42
3:UN:116:ALA:HB1	3:UN:120:MET:SD	2.59	0.42
3:Ur:32:ARG:NH1	3:Ut:144:ASN:OD1	2.43	0.42
3:Ur:122:ALA:O	3:Ur:126:VAL:HG23	2.19	0.42
3:Us:120:MET:HE1	3:Us:128:LYS:HE2	2.02	0.42
3:Us:201:VAL:HB	3:Us:212:PHE:HE1	1.85	0.42
3:VL:60:HIS:NE2	3:VN:28:ASP:OD2	2.53	0.42
3:VM:125:PHE:CE2	3:VM:176:ILE:HG21	2.54	0.42
3:Vp:105:ILE:HA	4:Xj:272:SER:HB3	2.01	0.42
3:Vq:13:ARG:O	3:Vq:17:PHE:HB2	2.19	0.42
3:Vs:55:ALA:HB1	3:Vu:56:ILE:HG21	2.00	0.42
3:Vu:72:THR:HA	3:Vu:213:TYR:O	2.20	0.42
4:WJ:103:ASN:O	4:WJ:105:ASN:N	2.52	0.42
4:Wj:406:LEU:O	4:Wn:409:SER:HA	2.19	0.42
4:Wj:536:GLU:HA	4:Wn:575:SER:HA	2.01	0.42
4:Wn:311:VAL:C	4:Wn:312:ARG:HG3	2.45	0.42
4:Wn:480:LEU:HD23	4:Wn:480:LEU:HA	1.94	0.42
4:Wo:450:PHE:HZ	4:Wo:478:TRP:HZ2	1.68	0.42
4:XK:88:ASP:OD2	4:XK:91:LYS:NZ	2.39	0.42
4:Xj:290:SER:HB3	4:Xj:370:HIS:CE1	2.54	0.42
4:Xj:556:GLN:NE2	5:Yx:185:LYS:HE2	2.34	0.42
4:Xk:311:VAL:HG13	4:Xk:320:LEU:HB2	2.00	0.42
4:Xl:89:TYR:CE1	4:Xl:139:ALA:HA	2.54	0.42
4:Xl:192:ARG:O	4:Xl:244:ILE:HA	2.19	0.42
4:Xl:322:GLY:N	4:Xl:358:VAL:O	2.53	0.42
4:Xl:562:SER:OG	5:Yx:220:LYS:HA	2.19	0.42
4:Xn:329:PHE:HB3	4:Xn:332:VAL:HB	2.00	0.42
4:Xo:23:GLY:C	4:Xo:25:LYS:N	2.76	0.42
4:Xo:204:ASP:OD1	4:Xo:205:VAL:N	2.53	0.42
5:YX:187:ILE:HD12	5:YX:187:ILE:H	1.84	0.42
5:YX:237:VAL:O	5:YX:238:TYR:HB3	2.19	0.42
5:YX:986:ARG:O	5:YX:990:MET:HG2	2.20	0.42
5:YY:78:TYR:HB2	5:YY:100:PHE:CE1	2.55	0.42
5:YY:329:ILE:HD11	5:YY:350:PHE:CE1	2.54	0.42
5:Yc:350:PHE:HD1	5:Yc:350:PHE:HA	1.73	0.42
5:Yc:408:HIS:O	5:Yc:410:GLU:N	2.52	0.42
5:Yc:454:ASN:HB2	5:Yc:471:VAL:CG2	2.50	0.42
5:Yc:579:LYS:HA	5:Yc:605:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:917:LYS:HD2	5:Yc:917:LYS:HA	1.78	0.42
5:Yx:256:GLY:HA2	5:Yx:294:PHE:CD1	2.55	0.42
5:Yx:450:PHE:CD2	5:Yx:453:ASP:HB2	2.54	0.42
5:Yx:479:TRP:CD2	5:Yx:505:PRO:HA	2.55	0.42
5:Yx:857:ARG:HD3	5:Yx:860:SER:HB2	2.00	0.42
5:Yy:191:TYR:HD1	5:Yy:235:LYS:HG3	1.84	0.42
6:ZZ:285:PRO:O	6:Zb:233:GLN:NE2	2.52	0.42
6:Zb:135:ASP:HB3	6:Zb:187:VAL:HG12	2.01	0.42
6:ab:136:VAL:HB	6:ab:162:PRO:HG3	2.00	0.42
7:b4:252:LEU:HD12	7:b4:337:ILE:HD11	2.02	0.42
7:b5:46:ASN:OD1	7:b5:47:GLU:N	2.50	0.42
7:b8:153:LYS:HB3	7:b8:167:TRP:HH2	1.85	0.42
7:bN:264:THR:OG1	7:bN:284:ARG:NH2	2.53	0.42
7:bO:560:LEU:HD21	7:bO:601:ILE:HD11	2.02	0.42
7:bQ:157:VAL:HG23	7:bQ:159:GLU:HG3	2.01	0.42
7:bR:296:SER:OG	7:bR:297:THR:N	2.52	0.42
7:cC:205:MET:O	7:cC:211:GLN:NE2	2.49	0.42
7:cC:253:PRO:HG2	7:cC:255:TYR:CE1	2.55	0.42
7:cD:571:ARG:HA	7:cD:571:ARG:HD3	1.84	0.42
7:cF:485:SER:HB3	7:cF:496:ARG:HD3	2.00	0.42
7:cI:557:PHE:CE1	7:cI:629:ILE:HD11	2.55	0.42
7:cL:432:ALA:HB2	7:cL:440:ASN:ND2	2.34	0.42
7:cN:41:ILE:HD11	7:cN:361:PHE:HB3	2.02	0.42
7:dV:301:GLY:O	7:dV:309:ILE:HG12	2.18	0.42
7:dW:131:ILE:HG21	7:dW:140:ILE:HG22	2.01	0.42
7:dZ:403:CYS:O	7:dZ:558:ASN:ND2	2.49	0.42
8:eB:425:ALA:HB2	8:eB:476:ILE:HD13	2.00	0.42
8:eU:25:THR:OG1	8:eU:28:GLU:HB2	2.19	0.42
8:eW:447:TYR:HB2	8:eW:467:TYR:CG	2.55	0.42
8:f9:557:PRO:HB3	8:f9:589:TYR:CZ	2.54	0.42
8:fB:246:ASN:OD1	8:fB:246:ASN:N	2.52	0.42
8:fS:546:ASP:CG	8:fS:547:SER:N	2.78	0.42
8:fU:397:LYS:HD2	8:fU:398:ASP:N	2.35	0.42
8:fW:178:ILE:HD12	8:fW:266:SER:O	2.19	0.42
8:fr:191:ASN:N	8:fr:191:ASN:OD1	2.52	0.42
8:fr:220:THR:HG22	8:fr:222:THR:H	1.83	0.42
8:fs:443:LYS:HA	8:fs:443:LYS:HD2	1.62	0.42
9:gH:204:HIS:ND1	9:gH:248:ASP:OD2	2.53	0.42
11:hI:120:ALA:HB2	11:hy:99:ILE:O	2.19	0.42
11:hM:76:ASP:OD1	11:hM:80:ASP:N	2.50	0.42
11:hi:23:VAL:HG22	11:hi:36:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hj:148:ASN:HB3	11:ht:49:ILE:HG22	2.02	0.42
11:hp:17:ARG:HD2	11:hp:118:ARG:HD2	2.02	0.42
11:hs:49:ILE:HG12	11:hs:60:VAL:HG12	2.01	0.42
11:hs:73:VAL:HG12	11:hs:74:MET:O	2.19	0.42
11:hv:23:VAL:HG22	11:hv:36:CYS:SG	2.60	0.42
12:iF:14:VAL:HG11	12:iF:52:LEU:HD11	2.01	0.42
14:kV:5:PHE:CE1	16:o6:81:ARG:HG3	2.54	0.42
15:m1:7:LEU:HD22	15:m1:124:LEU:HD11	2.00	0.42
15:m1:101:ASP:O	15:m1:103:THR:OG1	2.36	0.42
15:nT:4:ILE:HG22	15:nT:28:GLY:HA2	2.02	0.42
15:nT:57:LEU:HD11	15:nT:73:VAL:HG13	2.01	0.42
16:o0:85:SER:HB2	16:o0:96:ARG:HH22	1.84	0.42
16:o0:319:ILE:HG23	16:o0:346:ILE:HG22	2.01	0.42
16:o2:214:ARG:O	16:o2:215:SER:OG	2.34	0.42
16:pA:134:SER:O	16:pA:134:SER:OG	2.35	0.42
16:pB:247:LYS:HG3	16:pB:248:GLY:N	2.34	0.42
17:q4:179:ASN:O	17:q4:182:GLN:C	2.63	0.42
18:re:18:UNK:C	18:re:20:UNK:N	2.83	0.42
1:S1:106:ALA:HB2	1:S1:120:LYS:HD2	2.00	0.42
1:S1:199:VAL:HG21	1:S1:214:THR:HB	2.00	0.42
1:S3:333:THR:OG1	1:S3:335:ASN:OD1	2.22	0.42
1:S4:334:GLN:HG3	1:S4:337:ILE:HD12	2.01	0.42
1:S6:107:ILE:HD12	1:S6:107:ILE:HA	1.89	0.42
1:S7:457:LEU:HD21	4:Wm:412:PRO:HG3	2.02	0.42
1:SA:90:ALA:HB2	1:SA:96:GLY:C	2.45	0.42
1:SA:190:VAL:HG12	1:Sy:190:VAL:HG12	2.02	0.42
1:SA:445:HIS:O	1:Sy:486:ASP:HA	2.19	0.42
1:SO:66:VAL:HA	1:SQ:78:PRO:HB3	2.01	0.42
1:SO:233:GLN:HA	1:SO:236:VAL:HG22	2.02	0.42
1:SO:269:ALA:HA	1:SO:281:LEU:HD21	2.01	0.42
1:SP:448:ALA:N	1:SQ:485:ASN:OD1	2.49	0.42
1:SQ:173:ILE:HD12	1:SQ:176:ILE:HG23	2.00	0.42
1:Sv:24:ASN:OD1	1:Sz:45:ASN:ND2	2.41	0.42
1:Sv:86:SER:HA	1:Sv:97:LEU:HD12	2.01	0.42
1:Sv:118:PRO:HB3	1:Sx:106:ALA:HA	2.01	0.42
1:Sv:516:ASN:OD1	1:Sx:401:ARG:HD2	2.20	0.42
1:Sx:303:GLU:HA	1:Sz:309:ALA:HB3	2.02	0.42
1:Sx:360:ARG:HH11	1:Sx:525:VAL:HG21	1.83	0.42
2:T1:166:SER:H	2:T3:172:GLU:HA	1.85	0.42
2:T2:100:ARG:HB2	2:T2:127:ILE:HG21	2.02	0.42
2:TF:43:GLY:O	2:TF:68:GLN:NE2	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TH:46:ARG:NH1	2:TH:69:LYS:HD2	2.33	0.42
2:Td:165:GLU:HB3	2:Th:171:LYS:HB2	2.02	0.42
2:Tg:19:SER:HB2	5:YY:257:ARG:HH12	1.85	0.42
2:Ti:283:LYS:HG2	2:Ti:284:ILE:N	2.34	0.42
3:UL:40:ILE:HA	3:UL:43:LEU:HD12	2.02	0.42
3:UL:42:GLN:OE1	3:UL:42:GLN:N	2.50	0.42
3:UM:90:PHE:CE1	3:UM:178:ILE:HG23	2.54	0.42
3:Uq:87:TYR:CE1	3:Uq:157:GLU:HB2	2.55	0.42
3:Uq:126:VAL:HG12	3:Uq:130:ARG:NH1	2.34	0.42
3:Uq:172:SER:O	4:Wo:339:GLU:HB3	2.19	0.42
3:Ur:86:ASP:CG	3:Ur:180:GLN:HE21	2.27	0.42
3:Us:28:ASP:OD2	3:Uu:64:ILE:HG13	2.20	0.42
3:Us:130:ARG:HE	3:Us:148:ASP:CG	2.27	0.42
3:Ut:90:PHE:CE1	3:Ut:178:ILE:HG23	2.55	0.42
3:Uu:55:ALA:O	3:Uu:59:VAL:HG23	2.19	0.42
3:VL:13:ARG:HD2	3:VN:9:GLY:O	2.19	0.42
3:Vp:28:ASP:OD1	3:Vp:28:ASP:N	2.53	0.42
3:Vr:193:TRP:CZ3	3:Vr:217:ARG:HB2	2.54	0.42
3:Vs:52:ILE:HD11	3:Vu:15:ALA:HB2	2.01	0.42
3:Vu:55:ALA:O	3:Vu:59:VAL:HG23	2.19	0.42
4:WI:335:ASP:OD1	4:WI:335:ASP:N	2.51	0.42
4:WK:422:LEU:HD23	4:WK:433:VAL:HG22	2.02	0.42
4:Wj:164:ARG:HG3	4:Wj:245:GLU:HG2	2.01	0.42
4:Wk:397:ASP:OD1	4:Wk:398:GLU:N	2.52	0.42
4:Wl:170:GLU:O	4:Wl:171:VAL:HG12	2.20	0.42
4:Wl:414:VAL:HG23	4:Wl:441:ARG:HB3	2.01	0.42
4:Wn:92:VAL:HG12	4:Wn:136:VAL:HG12	2.01	0.42
4:XI:416:ILE:HG22	4:XI:419:ASP:HB2	2.02	0.42
4:XJ:2:LYS:N	4:XK:41:ASP:HB3	2.34	0.42
4:XJ:130:PHE:O	4:XJ:131:SER:OG	2.32	0.42
4:XJ:180:VAL:HG13	4:XJ:181:PHE:N	2.30	0.42
4:XJ:206:PHE:CD2	4:XJ:223:VAL:HA	2.55	0.42
4:Xj:71:ASN:OD1	4:Xj:72:THR:N	2.52	0.42
4:Xj:527:LEU:HD21	4:Xj:586:ILE:HD11	2.02	0.42
4:Xj:580:HIS:CE1	4:XI:530:ALA:HA	2.54	0.42
4:Xk:18:TYR:CE2	5:Yy:942:ILE:HD11	2.54	0.42
4:XI:36:GLU:HA	4:XI:50:LYS:NZ	2.34	0.42
4:XI:591:PRO:HA	4:Xn:520:GLY:O	2.20	0.42
4:Xm:90:ASN:ND2	4:Xo:49:TRP:O	2.53	0.42
4:Xn:23:GLY:C	4:Xn:25:LYS:N	2.78	0.42
4:Xn:194:LYS:HB2	4:Xn:243:GLN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xo:393:LEU:HG	4:Xo:394:LEU:H	1.85	0.42
5:YC:92:SER:OG	5:YC:93:ASP:N	2.50	0.42
5:YC:600:PHE:O	5:YC:602:TYR:N	2.52	0.42
5:YC:904:LEU:HD12	5:YC:905:THR:HG23	2.02	0.42
5:YX:248:LEU:HD22	5:YX:249:GLY:H	1.85	0.42
5:YX:543:LYS:NZ	5:YX:545:ILE:HD11	2.34	0.42
5:YY:7:SER:OG	5:YY:8:VAL:N	2.53	0.42
5:YY:27:ASP:OD1	5:YY:27:ASP:N	2.52	0.42
5:YY:1019:PRO:HG3	6:Za:93:ARG:HD3	2.01	0.42
5:Yc:126:LYS:HD3	5:Yc:135:VAL:HG23	2.01	0.42
5:Yc:238:TYR:HE2	5:Yc:517:SER:HB3	1.84	0.42
5:Yc:600:PHE:HZ	5:Yc:608:VAL:HB	1.84	0.42
5:Yx:81:ARG:HG2	5:Yx:94:TRP:CE3	2.50	0.42
5:Yx:364:VAL:HG22	5:Yx:396:ILE:HG21	2.01	0.42
5:Yx:379:ILE:HD11	5:Yx:402:GLY:H	1.85	0.42
5:Yx:1011:ARG:NH2	5:Yx:1013:LYS:HD3	2.34	0.42
5:Yy:59:LEU:HD13	5:Yy:67:PHE:CE1	2.54	0.42
5:Yy:1013:LYS:NZ	6:aa:205:ASN:OD1	2.53	0.42
6:ZE:40:THR:OG1	6:ZE:273:SER:HB3	2.20	0.42
6:ZE:287:ASP:OD1	6:ZE:287:ASP:N	2.50	0.42
6:aD:40:THR:OG1	6:aD:273:SER:OG	2.37	0.42
6:aD:135:ASP:OD1	6:aD:136:VAL:N	2.49	0.42
6:aD:270:ARG:CZ	6:aD:317:PRO:HB3	2.50	0.42
6:aE:246:THR:HG23	6:aE:333:THR:HG22	2.01	0.42
6:aZ:309:MET:HE2	6:aZ:312:MET:HG2	2.01	0.42
7:b0:441:PHE:CE2	7:b0:443:ILE:HD11	2.55	0.42
7:b3:135:ASP:HB3	7:b3:139:LYS:HB2	2.02	0.42
7:b3:304:ILE:H	7:b3:304:ILE:HG12	1.64	0.42
7:b4:456:TYR:O	7:b4:503:ILE:HG23	2.19	0.42
7:b4:592:LEU:HD23	7:b4:604:TYR:HB2	2.02	0.42
7:b5:124:ASP:OD1	7:b5:124:ASP:N	2.52	0.42
7:b6:46:ASN:OD1	7:b6:47:GLU:N	2.53	0.42
7:b7:134:VAL:HG12	7:b7:140:ILE:HG22	2.00	0.42
7:b8:304:ILE:H	7:b8:304:ILE:HG12	1.53	0.42
7:b8:549:ASP:O	7:b8:550:ARG:NE	2.53	0.42
7:b9:605:ARG:HB3	7:b9:605:ARG:HH11	1.85	0.42
7:bN:239:VAL:HG21	7:bN:265:ALA:HB2	2.02	0.42
7:bN:373:PHE:HB2	7:bN:405:VAL:HG22	2.02	0.42
7:bO:651:PHE:CE1	7:dT:628:TYR:HB3	2.54	0.42
7:bP:39:PHE:HB3	7:bP:361:PHE:CE1	2.54	0.42
7:bP:268:VAL:HG23	7:bP:269:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bQ:451:ASP:CG	7:bQ:474:ILE:HD13	2.45	0.42
7:cA:33:PHE:HA	7:cA:61:THR:HG23	2.02	0.42
7:cA:494:TYR:CE2	7:cJ:569:LYS:HD3	2.54	0.42
7:cB:118:VAL:HB	7:cB:126:GLU:HB3	2.02	0.42
7:cB:538:ASP:O	7:cB:550:ARG:HA	2.19	0.42
7:cD:205:MET:HE2	7:cD:205:MET:HB3	1.96	0.42
7:cD:253:PRO:HG2	7:cD:255:TYR:HE1	1.84	0.42
7:cE:441:PHE:CZ	7:cE:443:ILE:HD11	2.54	0.42
7:cE:450:ILE:HD13	7:cE:522:ILE:HG12	2.02	0.42
7:cE:485:SER:OG	7:cE:486:GLN:N	2.53	0.42
7:cE:504:LYS:HG2	7:cE:505:LEU:N	2.35	0.42
7:cF:566:ARG:HG3	7:cF:569:LYS:HE3	2.01	0.42
7:cH:284:ARG:HG2	7:cH:289:ILE:HD13	2.02	0.42
7:cH:345:SER:OG	7:cH:346:SER:N	2.52	0.42
7:cH:446:THR:HG22	7:cH:542:THR:HB	2.01	0.42
7:cI:12:GLU:HG3	7:cM:548:PHE:CE2	2.55	0.42
7:cJ:31:GLY:HA3	7:cJ:64:TYR:CD1	2.55	0.42
7:cJ:549:ASP:OD2	7:cK:271:TYR:OH	2.20	0.42
7:cL:35:TRP:O	7:cL:54:PHE:HA	2.19	0.42
7:cL:500:LEU:HD23	7:cL:500:LEU:HA	1.90	0.42
7:cN:130:LYS:HE2	7:cN:130:LYS:HB2	1.88	0.42
7:cN:159:GLU:CD	7:cN:164:GLY:H	2.27	0.42
7:cN:408:SER:HB2	7:cN:471:ALA:HB2	2.01	0.42
7:cO:209:ASP:OD1	7:cO:209:ASP:N	2.53	0.42
7:cO:349:GLU:OE1	7:cO:349:GLU:N	2.53	0.42
7:dW:130:LYS:HE3	7:dW:130:LYS:HB2	1.78	0.42
7:dZ:234:ILE:HB	7:dZ:340:LEU:HD12	2.00	0.42
8:eB:323:GLU:HG3	15:nT:122:ILE:HD13	2.00	0.42
8:eU:172:ILE:HD13	8:eU:273:ILE:HG12	2.00	0.42
8:eU:331:ILE:HD11	8:fR:257:ILE:HG12	2.01	0.42
8:eW:169:GLN:HE21	8:eW:276:ASN:H	1.68	0.42
8:f9:8:TYR:CZ	8:f9:19:GLU:HB2	2.54	0.42
8:f9:338:ARG:HA	8:f9:399:TYR:HB3	2.02	0.42
8:fA:72:ASN:ND2	8:fA:76:TYR:CZ	2.88	0.42
8:fA:127:ARG:N	8:fA:150:ASP:OD1	2.53	0.42
8:fB:52:ARG:HB2	15:nT:11:ILE:HG23	2.01	0.42
8:fB:134:TYR:CZ	8:fB:142:PRO:HG3	2.55	0.42
8:fB:463:LYS:HA	8:fB:466:THR:HG23	2.02	0.42
8:fB:645:ASP:OD1	8:fB:645:ASP:N	2.50	0.42
8:fR:645:ASP:OD1	8:fR:645:ASP:N	2.50	0.42
8:fU:113:THR:OG1	8:fU:113:THR:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fU:642:PHE:CE1	8:fU:651:LEU:HD13	2.54	0.42
8:fW:499:ILE:H	8:fW:499:ILE:HG12	1.65	0.42
8:fW:499:ILE:HG13	8:fW:602:ILE:HB	2.00	0.42
8:fW:538:VAL:HG11	8:fW:558:PHE:CE1	2.53	0.42
8:fr:80:MET:HG2	8:fr:81:ARG:H	1.85	0.42
8:fr:225:TYR:HB2	8:fr:237:TYR:CZ	2.54	0.42
8:fs:317:GLY:HA3	8:fs:355:SER:HB2	2.01	0.42
8:fs:596:ASN:OD1	8:fs:601:VAL:HG22	2.20	0.42
9:gG:418:THR:HG21	9:gH:428:GLY:CA	2.50	0.42
9:gH:227:ARG:NH1	9:gH:240:GLU:OE2	2.41	0.42
11:hf:83:GLN:HA	11:hf:86:VAL:HG22	2.02	0.42
11:hg:76:ASP:OD1	11:hg:79:HIS:N	2.53	0.42
11:hh:58:ILE:CD1	11:hm:6:VAL:HG21	2.50	0.42
11:hv:117:ALA:HB3	11:hv:122:THR:HB	2.01	0.42
12:iC:61:HIS:O	12:iF:239:LYS:NZ	2.52	0.42
12:iD:241:ASN:C	12:iD:243:HIS:H	2.27	0.42
12:iF:296:ILE:HD13	12:iF:296:ILE:HA	1.95	0.42
16:o1:307:LYS:HD3	16:o1:307:LYS:H	1.83	0.42
16:o1:318:SER:HB3	16:o1:347:THR:HG23	2.02	0.42
16:o2:54:VAL:HG23	16:o2:55:THR:HG23	2.00	0.42
1:S0:65:GLU:HG2	1:S0:74:LYS:HE3	2.02	0.42
1:S0:454:HIS:HB3	1:S0:465:ARG:CZ	2.49	0.42
1:S1:302:ILE:HG22	1:S1:304:ASP:H	1.85	0.42
1:S1:308:ILE:HB	1:S2:315:ILE:HA	2.01	0.42
1:S2:310:ASN:OD1	1:S2:311:GLY:N	2.50	0.42
1:S3:117:THR:HG22	1:S3:120:LYS:NZ	2.34	0.42
1:S3:493:GLU:HG3	1:S3:496:ARG:NH2	2.34	0.42
1:S4:36:ILE:O	1:S4:40:SER:OG	2.31	0.42
1:S4:325:TYR:HD1	1:S4:330:ARG:HA	1.84	0.42
1:S5:7:GLN:HB2	1:S5:15:TYR:CE1	2.55	0.42
1:S5:386:ASN:HD21	1:S5:389:ASN:HB2	1.84	0.42
1:S6:5:THR:HA	4:Xn:196:ARG:HD2	2.01	0.42
1:S6:99:ARG:HG2	1:S6:100:TYR:N	2.34	0.42
1:S6:229:LYS:HG3	1:S8:225:LYS:HG2	2.02	0.42
1:S6:346:ILE:HA	1:S6:522:ILE:O	2.20	0.42
1:S6:399:PHE:CE1	1:S8:401:ARG:HB3	2.54	0.42
1:S8:177:ALA:HB3	1:S8:178:PRO:HD3	2.02	0.42
1:Sx:5:THR:HG23	4:Wn:196:ARG:NE	2.35	0.42
1:Sx:341:ILE:HG21	1:Sx:359:TRP:CZ2	2.55	0.42
1:Sx:486:ASP:OD1	1:Sx:486:ASP:N	2.52	0.42
1:Sz:151:LEU:HB2	1:Sz:168:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:111:ASN:HD22	2:T2:142:PRO:HA	1.85	0.42
2:T9:79:VAL:N	2:T9:97:ILE:O	2.51	0.42
2:TG:192:PHE:CD2	2:TG:196:GLU:HB2	2.53	0.42
2:TH:65:GLY:HA3	2:TH:84:ARG:NH1	2.35	0.42
2:Tg:9:LEU:O	2:Tg:30:LYS:NZ	2.38	0.42
2:Tg:116:ILE:HD11	2:Tg:122:LEU:HD12	2.02	0.42
3:UL:200:THR:N	3:UM:204:ASP:OD1	2.49	0.42
3:UM:142:ALA:H	3:UM:161:LEU:HD12	1.85	0.42
3:Up:88:TRP:O	3:Up:155:LYS:HA	2.20	0.42
3:Ur:11:ILE:HD13	4:Wn:376:GLU:CD	2.44	0.42
3:VL:195:LEU:HD13	3:VL:215:PHE:HE1	1.85	0.42
3:Vp:70:ILE:HG23	3:Vp:214:HIS:HB3	2.02	0.42
3:Vq:15:ALA:HB2	3:Vu:52:ILE:HD11	2.01	0.42
3:Vq:148:ASP:OD1	3:Vq:148:ASP:N	2.51	0.42
3:Vt:67:VAL:HA	3:Vt:217:ARG:HG2	2.02	0.42
3:Vt:127:ALA:HA	3:Vt:130:ARG:HH11	1.84	0.42
4:WJ:53:ASN:O	4:WJ:56:SER:OG	2.34	0.42
4:WK:170:GLU:O	4:WK:171:VAL:HG12	2.20	0.42
4:WK:231:ARG:HG2	4:WK:232:LEU:N	2.34	0.42
4:Wj:58:GLN:HG2	4:Wj:59:THR:HG22	2.01	0.42
4:Wj:541:VAL:HG12	4:Wn:543:ILE:HG12	2.02	0.42
4:Wk:198:ASN:HD22	4:Wm:194:LYS:CD	2.33	0.42
4:Wk:460:TYR:CE1	4:Wm:458:THR:HG23	2.54	0.42
4:Wl:240:ASP:OD1	4:Wl:240:ASP:N	2.52	0.42
4:Wl:305:ASN:HB3	4:Wn:255:ARG:NH1	2.35	0.42
4:Wm:391:GLY:HA3	4:Wo:390:LEU:HB2	2.01	0.42
4:Wn:154:ILE:H	4:Wn:154:ILE:HG13	1.48	0.42
4:Wn:559:PRO:HG3	5:YX:228:ARG:NH2	2.35	0.42
4:Wo:170:GLU:O	4:Wo:171:VAL:HG12	2.19	0.42
4:Wo:326:MET:HE3	4:Wo:326:MET:HB2	1.66	0.42
4:Wo:326:MET:HE2	4:Wo:327:PRO:HG3	2.01	0.42
4:XI:394:LEU:C	4:XK:392:THR:HB	2.44	0.42
4:XI:520:GLY:O	4:XK:591:PRO:HA	2.20	0.42
4:XJ:213:GLY:HA2	4:XJ:221:GLU:HB2	2.02	0.42
4:XJ:304:ILE:HG13	4:XJ:386:PHE:H	1.85	0.42
4:XJ:410:GLN:NE2	4:XK:404:ASP:O	2.51	0.42
4:XK:20:ARG:HB2	5:Yc:923:SER:H	1.85	0.42
4:XK:23:GLY:C	4:XK:25:LYS:N	2.77	0.42
4:Xj:248:MET:HE2	4:Xj:248:MET:HB3	1.89	0.42
4:Xk:18:TYR:CE1	4:Xk:20:ARG:HB3	2.55	0.42
4:Xk:248:MET:HB3	4:Xk:248:MET:HE2	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:11:VAL:HG22	4:Xn:20:ARG:HG2	2.00	0.42
4:XI:113:SER:OG	4:XI:114:GLY:N	2.51	0.42
4:Xm:208:GLU:OE1	4:Xm:233:ARG:NH1	2.47	0.42
4:Xn:342:CYS:HB3	4:Xn:349:TRP:CH2	2.55	0.42
4:Xo:132:ASP:OD1	4:Xo:151:ILE:N	2.53	0.42
5:YC:380:ILE:O	5:YC:401:LYS:HD2	2.20	0.42
5:YC:529:SER:OG	6:Zb:233:GLN:OE1	2.33	0.42
5:YC:987:ARG:NE	5:YC:988:LYS:HG3	2.34	0.42
5:YX:254:PHE:HA	5:YX:296:THR:HA	2.01	0.42
5:YX:314:THR:HG23	5:YX:317:TYR:HB2	2.02	0.42
5:YX:368:MET:HG3	5:YX:377:ALA:HB2	2.00	0.42
5:YX:657:TYR:CD2	8:eU:52:ARG:HD3	2.55	0.42
5:YY:293:ILE:H	5:YY:293:ILE:HG13	1.63	0.42
5:YY:924:GLY:C	5:YY:926:PRO:HD3	2.45	0.42
5:Yc:163:ILE:HD13	5:Yc:586:LEU:HD13	2.02	0.42
5:Yc:398:SER:OG	5:Yc:399:ALA:N	2.52	0.42
5:Yc:574:LYS:CG	5:Yc:609:GLU:HG2	2.50	0.42
5:Yx:229:VAL:O	5:Yx:249:GLY:HA2	2.20	0.42
5:Yx:407:ASN:OD1	5:Yx:407:ASN:N	2.51	0.42
5:Yx:603:ARG:HD3	5:Yy:850:ASN:HD21	1.85	0.42
5:Yy:61:TYR:CE2	6:aa:156:LEU:HD11	2.55	0.42
5:Yy:493:ASP:OD1	5:Yy:493:ASP:N	2.49	0.42
6:ZZ:44:SER:HB3	6:ZZ:76:MET:SD	2.60	0.42
6:Za:137:PRO:HG3	6:Za:185:GLY:HA3	2.01	0.42
6:Zb:130:VAL:HG12	6:Zb:191:LEU:HD12	2.02	0.42
6:Zc:94:ASP:OD1	6:Zc:113:VAL:HB	2.19	0.42
6:aa:49:SER:HG	6:aa:50:ASN:H	1.66	0.42
6:aa:50:ASN:N	6:aa:50:ASN:OD1	2.51	0.42
6:ab:21:MET:HG3	6:ab:247:ILE:HG13	2.02	0.42
6:ac:150:LYS:HG3	6:ac:160:TRP:CG	2.54	0.42
7:b0:332:GLU:OE1	7:b0:332:GLU:N	2.53	0.42
7:b4:576:ASN:HD22	7:b4:618:ILE:HG23	1.84	0.42
7:b5:142:LYS:HD2	7:b5:216:LYS:HA	2.01	0.42
7:b5:366:GLU:H	7:b5:366:GLU:HG3	1.53	0.42
7:b5:450:ILE:HG22	7:b5:541:ALA:HB2	2.00	0.42
7:b7:505:LEU:HD12	7:b7:505:LEU:HA	1.91	0.42
7:b8:121:VAL:HG13	7:b8:166:ASN:HA	2.02	0.42
7:b8:614:THR:C	7:b8:616:SER:H	2.28	0.42
7:b9:42:LYS:HE3	7:b9:42:LYS:HB3	1.77	0.42
7:b9:252:LEU:HD22	7:b9:335:SER:O	2.20	0.42
7:b9:470:LEU:O	7:b9:474:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bN:6:PRO:HD3	7:bY:518:TYR:CE2	2.54	0.42
7:bO:119:LYS:HG2	7:bO:168:THR:O	2.19	0.42
7:bO:536:TYR:HD1	7:bO:536:TYR:HA	1.74	0.42
7:bP:116:ILE:H	7:bP:116:ILE:HG12	1.45	0.42
7:bP:116:ILE:HG23	7:bP:171:ILE:HD13	2.02	0.42
7:bP:440:ASN:HD22	7:bP:442:ASN:HB2	1.85	0.42
7:bQ:247:GLY:HA2	7:bQ:266:LYS:HG3	2.01	0.42
7:bQ:480:ARG:O	7:bQ:484:VAL:HG12	2.19	0.42
7:bR:229:GLU:H	7:bR:229:GLU:HG2	1.57	0.42
7:bR:296:SER:O	7:bR:311:ILE:HG12	2.19	0.42
7:cA:549:ASP:OD2	7:cB:271:TYR:OH	2.29	0.42
7:cB:30:ALA:HA	7:cB:81:VAL:O	2.19	0.42
7:cC:128:GLU:HB2	7:cC:146:PRO:HG2	2.01	0.42
7:cD:394:VAL:HG11	7:cD:443:ILE:HD12	2.01	0.42
7:cD:413:THR:OG1	7:cD:425:ASN:HB3	2.19	0.42
7:cE:413:THR:OG1	7:cE:425:ASN:HB3	2.19	0.42
7:cF:101:TYR:OH	7:cF:216:LYS:O	2.31	0.42
7:cH:312:ASP:OD1	7:cH:327:ALA:N	2.45	0.42
7:cI:621:ASN:OD1	7:cI:621:ASN:N	2.52	0.42
7:cM:135:ASP:HB3	7:cM:139:LYS:HB2	2.01	0.42
7:cM:383:LEU:HD11	7:cM:436:TYR:CE1	2.53	0.42
7:dV:315:PHE:CE2	7:dV:325:ALA:HB3	2.55	0.42
7:dW:57:PRO:HB3	7:dW:65:PHE:HB3	2.02	0.42
7:dZ:94:PRO:HD3	7:dZ:222:VAL:O	2.20	0.42
7:dZ:601:ILE:H	7:dZ:601:ILE:HG12	1.61	0.42
8:eW:323:GLU:O	8:eW:327:GLU:HG2	2.20	0.42
8:f9:536:TYR:HB2	8:f9:586:ARG:NH2	2.35	0.42
8:fA:358:GLN:HB2	8:fA:379:LYS:HB2	2.02	0.42
8:fA:403:PRO:HA	8:fB:364:THR:HG21	2.01	0.42
8:fR:411:PRO:HG2	8:fR:413:TYR:CE2	2.55	0.42
8:fS:114:CYS:HB3	8:fS:297:VAL:HG12	2.01	0.42
8:fS:382:LEU:HB3	8:fS:413:TYR:OH	2.20	0.42
8:fU:58:ASP:OD2	15:m1:47:ARG:NH2	2.53	0.42
8:fU:156:ASP:OD1	8:fU:156:ASP:N	2.53	0.42
8:fU:516:SER:HA	8:fU:537:ASP:HA	2.02	0.42
8:fW:66:TYR:HD1	8:fW:66:TYR:HA	1.72	0.42
8:fW:412:ASN:HB3	8:fW:486:ARG:HH12	1.84	0.42
8:fr:339:CYS:HB3	8:fr:348:PHE:CD2	2.55	0.42
8:fr:538:VAL:HB	8:fr:556:GLY:HA3	2.00	0.42
9:gE:416:HIS:CD2	9:gE:418:THR:HG22	2.42	0.42
11:h1:8:ARG:HE	11:h1:8:ARG:HB2	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hX:104:PRO:O	11:hX:108:LYS:HB2	2.20	0.42
11:he:25:ILE:HD12	11:he:28:LEU:HD12	2.01	0.42
11:hi:137:VAL:HB	11:hi:155:VAL:HG22	2.01	0.42
11:hj:124:THR:OG1	11:hk:78:ALA:HA	2.19	0.42
11:ho:1:MET:HB2	11:ho:1:MET:HE3	1.69	0.42
11:ho:107:TYR:O	11:ho:133:TRP:HB3	2.19	0.42
11:hr:125:LYS:HG2	11:hs:79:HIS:ND1	2.34	0.42
11:hs:143:ASP:OD1	11:hs:144:TRP:N	2.52	0.42
11:hy:49:ILE:HG23	11:hy:60:VAL:HG13	2.01	0.42
14:kV:40:LEU:HD21	14:kV:45:LEU:HD23	2.01	0.42
15:m1:122:ILE:HG13	15:m1:123:LYS:NZ	2.34	0.42
15:m6:101:ASP:O	15:m6:103:THR:N	2.53	0.42
15:mT:20:ASN:ND2	15:mT:22:ASP:OD1	2.52	0.42
15:nT:122:ILE:HG13	15:nT:123:LYS:NZ	2.34	0.42
16:o0:181:ILE:H	16:o0:181:ILE:HG13	1.48	0.42
16:o1:62:LEU:HD12	16:o1:62:LEU:HA	1.85	0.42
16:o1:103:VAL:O	16:o1:107:SER:OG	2.25	0.42
16:o6:96:ARG:HD3	16:o6:96:ARG:H	1.85	0.42
16:pA:273:LEU:O	16:pB:177:ILE:HD11	2.19	0.42
16:pB:4:VAL:HG23	16:pB:5:LYS:H	1.84	0.42
17:q5:203:LEU:HB2	17:q5:212:THR:HG23	2.01	0.42
1:S0:5:THR:HG23	4:Xm:196:ARG:HE	1.84	0.42
1:S1:147:LEU:HB2	1:S1:148:PRO:HD3	2.02	0.42
1:S1:298:GLY:HA3	1:S3:292:GLY:HA3	2.02	0.42
1:S3:145:SER:N	1:S3:158:THR:OG1	2.53	0.42
1:S4:12:GLU:HB3	1:S4:15:TYR:HB3	2.01	0.42
1:S4:40:SER:HB3	1:S6:24:ASN:HB3	2.02	0.42
1:S4:515:TRP:CZ2	1:S6:439:ILE:HG23	2.55	0.42
1:S5:255:SER:HB2	1:S5:261:GLY:O	2.20	0.42
1:S6:147:LEU:HB2	1:S6:148:PRO:HD3	2.00	0.42
1:S6:289:GLN:HG2	1:S6:291:ARG:H	1.85	0.42
1:S8:417:ASN:O	1:S8:424:ARG:NH1	2.53	0.42
1:SA:348:MET:SD	1:Sw:400:VAL:HG11	2.60	0.42
1:SA:405:ARG:NH1	1:SA:410:THR:HG22	2.34	0.42
1:SO:498:SER:O	1:SQ:422:LYS:NZ	2.53	0.42
1:SP:46:GLY:C	1:SP:48:PRO:HD2	2.44	0.42
1:SQ:418:ASP:OD1	1:SQ:422:LYS:N	2.52	0.42
1:Sy:233:GLN:NE2	1:Sy:237:ASN:OD1	2.45	0.42
1:Sz:359:TRP:CE2	1:Sz:524:LYS:HD3	2.54	0.42
2:T1:165:GLU:HB3	2:T3:171:LYS:HB2	2.01	0.42
2:T1:228:SER:C	2:T1:256:ILE:HD12	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T9:139:VAL:HG13	2:T9:164:ILE:HD12	2.02	0.42
2:TG:50:VAL:HG12	2:TG:51:ALA:H	1.84	0.42
2:Tf:18:ALA:O	2:Tf:23:ILE:HG12	2.20	0.42
2:Ti:70:HIS:HB2	2:Ti:75:TYR:CE2	2.55	0.42
3:UL:172:SER:O	4:WK:339:GLU:HB3	2.20	0.42
3:UM:90:PHE:O	3:UM:154:SER:HB2	2.19	0.42
3:UN:125:PHE:O	3:UN:129:VAL:HG23	2.20	0.42
3:Uq:88:TRP:O	3:Uq:155:LYS:HA	2.19	0.42
3:Ur:43:LEU:O	3:Ut:111:GLY:HA3	2.19	0.42
3:Us:40:ILE:HA	3:Us:43:LEU:HD12	2.02	0.42
3:Ut:4:LEU:O	4:Wj:318:GLN:NE2	2.52	0.42
3:Ut:13:ARG:HG2	3:Ut:14:LEU:H	1.84	0.42
3:VM:35:VAL:HG13	3:VM:58:ASP:HB2	2.01	0.42
3:Vq:17:PHE:O	3:Vs:13:ARG:NH2	2.52	0.42
3:Vq:85:THR:HG22	3:Vq:183:ILE:HD12	2.01	0.42
3:Vr:47:PHE:CE2	3:Vr:49:GLU:HB2	2.55	0.42
3:Vu:102:GLY:HA2	3:Vu:117:THR:HB	2.00	0.42
3:Vu:147:LYS:O	3:Vu:157:GLU:N	2.51	0.42
3:Vu:152:ASP:OD1	3:Vu:154:SER:OG	2.38	0.42
4:WI:258:TYR:HE2	4:WI:384:THR:HG23	1.83	0.42
4:WI:591:PRO:HD3	4:WJ:522:SER:C	2.45	0.42
4:WJ:503:ASN:OD1	4:WJ:503:ASN:N	2.53	0.42
4:WK:195:HIS:NE2	4:WK:232:LEU:HD21	2.35	0.42
4:Wj:38:GLY:HA2	4:Wj:43:PRO:HA	2.02	0.42
4:Wj:71:ASN:OD1	4:Wj:72:THR:N	2.52	0.42
4:Wj:176:ASP:OD1	4:Wj:176:ASP:N	2.53	0.42
4:Wj:569:TYR:CD1	4:Wl:544:VAL:HA	2.55	0.42
4:Wk:586:ILE:HB	4:Wm:525:VAL:HG11	2.01	0.42
4:Wl:311:VAL:HB	4:Wl:383:ILE:HD13	2.02	0.42
4:Wm:268:SER:OG	4:Wm:269:LYS:N	2.53	0.42
4:Wn:94:ARG:HD3	4:Wn:134:GLU:HG2	2.02	0.42
4:Wn:362:GLU:HG3	4:Wn:367:GLU:H	1.84	0.42
4:Wo:275:SER:HA	4:Wo:280:ILE:HG22	2.02	0.42
4:XI:229:ASN:OD1	4:XI:230:ILE:N	2.53	0.42
4:Xj:194:LYS:HG2	4:Xj:198:ASN:HA	2.02	0.42
4:Xk:172:GLN:HG3	4:Xk:237:ASN:HA	2.02	0.42
4:Xk:180:VAL:HG13	4:Xk:181:PHE:N	2.35	0.42
4:Xk:394:LEU:HD22	4:Xo:395:THR:HA	2.01	0.42
4:Xk:558:ASP:OD1	4:Xk:558:ASP:N	2.33	0.42
4:Xl:52:TYR:CE1	4:Xl:60:LEU:HD22	2.55	0.42
4:Xl:304:ILE:HB	4:Xl:385:TRP:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XI:481:PHE:HB2	4:XI:599:ILE:HG22	2.01	0.42
4:Xm:356:TYR:O	4:Xm:357:SER:HB2	2.20	0.42
4:Xn:60:LEU:HD11	4:Xn:79:ILE:HG22	2.00	0.42
4:Xn:157:SER:O	4:Xn:160:SER:OG	2.33	0.42
4:Xn:215:PRO:CG	4:Xn:226:ASP:H	2.32	0.42
4:Xo:110:VAL:HG22	4:Xo:123:PRO:HB3	2.01	0.42
4:Xo:130:PHE:C	4:Xo:150:GLN:HB3	2.45	0.42
4:Xo:170:GLU:O	4:Xo:171:VAL:HG12	2.20	0.42
5:YC:457:ASN:O	5:YC:458:ASP:C	2.63	0.42
5:YC:807:LEU:H	5:YC:807:LEU:HD23	1.85	0.42
5:YX:628:HIS:ND1	5:YX:628:HIS:O	2.52	0.42
5:Yc:946:SER:O	5:Yc:948:THR:N	2.46	0.42
5:Yx:164:SER:HA	5:Yx:167:ILE:HG23	2.00	0.42
5:Yx:169:GLY:HA2	5:Yx:541:TYR:HE2	1.85	0.42
5:Yx:447:ASN:ND2	6:aa:73:THR:HG23	2.35	0.42
5:Yy:357:ILE:HG12	5:Yy:358:THR:H	1.84	0.42
6:Za:92:ARG:HH21	6:Za:94:ASP:CG	2.28	0.42
6:Zc:89:VAL:HG12	6:Zc:209:VAL:HG22	2.02	0.42
6:aE:107:ARG:HD3	6:aE:159:LYS:HB3	2.02	0.42
7:b0:49:ASP:O	7:b0:53:THR:OG1	2.36	0.42
7:b3:6:PRO:HD3	7:cE:518:TYR:CE2	2.55	0.42
7:b5:137:ASP:OD1	7:b5:137:ASP:N	2.53	0.42
7:b5:653:GLU:H	7:b5:653:GLU:HG2	1.72	0.42
7:b6:110:TYR:CE1	7:b6:177:GLY:HA3	2.55	0.42
7:bO:432:ALA:HB2	7:bO:440:ASN:HD22	1.85	0.42
7:bQ:315:PHE:CE2	7:bQ:325:ALA:HB3	2.54	0.42
7:bY:35:TRP:O	7:bY:54:PHE:HA	2.20	0.42
7:bY:116:ILE:H	7:bY:116:ILE:HG12	1.53	0.42
7:bY:628:TYR:CE2	7:cH:643:VAL:HG21	2.55	0.42
7:cA:504:LYS:HG2	7:cA:505:LEU:N	2.35	0.42
7:cC:450:ILE:HD13	7:cC:522:ILE:HG12	2.02	0.42
7:cE:299:ARG:H	7:cE:299:ARG:HG2	1.53	0.42
7:cE:554:ARG:HD3	7:cE:554:ARG:O	2.20	0.42
7:cE:579:PHE:CE2	11:ht:30:GLN:HB2	2.55	0.42
7:cF:647:THR:OG1	7:cF:648:GLY:N	2.52	0.42
7:cL:41:ILE:HD11	7:cL:361:PHE:HB3	2.02	0.42
7:cL:644:ALA:O	7:cL:645:THR:OG1	2.37	0.42
7:cM:566:ARG:HA	7:cM:569:LYS:HE2	2.02	0.42
7:cO:54:PHE:HE2	7:cO:82:ARG:HB2	1.85	0.42
7:cO:110:TYR:CD1	7:cO:177:GLY:HA3	2.55	0.42
7:cO:169:ALA:HB2	7:cO:184:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:383:LEU:HD11	7:cO:436:TYR:HE1	1.85	0.42
7:cO:620:ARG:HB2	7:cO:622:GLU:HG3	2.00	0.42
7:dS:169:ALA:HB2	7:dS:184:LEU:HD11	2.01	0.42
7:dT:32:LYS:HD3	7:dT:64:TYR:CE2	2.55	0.42
7:dT:372:LEU:HD12	7:dT:372:LEU:HA	1.92	0.42
7:dT:571:ARG:NH2	7:dT:587:GLU:OE2	2.47	0.42
7:dU:451:ASP:OD2	7:dU:470:LEU:HB3	2.19	0.42
7:dW:430:ARG:HD3	7:dW:430:ARG:O	2.20	0.42
8:eB:521:ARG:O	8:eB:522:LYS:HD2	2.19	0.42
8:eW:32:ASN:N	8:eW:32:ASN:HD22	2.17	0.42
8:eW:343:THR:O	8:eW:343:THR:OG1	2.38	0.42
8:eW:397:LYS:H	8:eW:397:LYS:HG3	1.42	0.42
8:fA:80:MET:C	8:fA:82:THR:H	2.28	0.42
8:fA:134:TYR:CE1	8:fA:142:PRO:HG3	2.54	0.42
8:fB:642:PHE:CE1	8:fB:651:LEU:HD13	2.55	0.42
8:fR:191:ASN:OD1	8:fR:191:ASN:N	2.52	0.42
8:fU:510:MET:SD	8:fU:602:ILE:HD13	2.59	0.42
8:fW:500:LYS:HG2	8:fW:601:VAL:HG12	2.02	0.42
9:gE:13:GLY:HA2	9:gE:32:VAL:HG23	2.02	0.42
9:gE:392:THR:HG23	9:gE:402:GLU:HG2	2.02	0.42
9:gE:432:ARG:HD2	9:gH:432:ARG:HH22	1.84	0.42
9:gG:134:GLN:O	9:gG:387:TYR:HB2	2.19	0.42
9:gG:558:SER:HB3	9:gH:551:THR:HG22	2.01	0.42
9:gH:93:ASN:HD22	9:gH:93:ASN:C	2.27	0.42
9:gH:105:ARG:NH1	12:iD:375:GLU:OE1	2.53	0.42
11:hI:19:ASN:OD1	11:hI:19:ASN:N	2.41	0.42
11:hI:49:ILE:HD11	17:q9:18:ARG:HH11	1.84	0.42
11:hM:113:VAL:HG13	11:hM:127:ILE:HG12	2.00	0.42
11:he:115:GLN:HG3	11:hf:79:HIS:CE1	2.54	0.42
11:hf:61:ALA:HA	11:hg:133:TRP:CH2	2.54	0.42
11:hf:82:ARG:HH12	11:hf:138:GLY:HA2	1.84	0.42
11:hh:18:PRO:HG3	11:hi:149:GLU:HB2	2.02	0.42
11:ho:82:ARG:O	11:ho:86:VAL:HG13	2.20	0.42
11:hp:41:LEU:O	11:hp:42:PRO:C	2.63	0.42
11:hs:23:VAL:HG22	11:hs:36:CYS:SG	2.59	0.42
11:hs:107:TYR:O	11:hs:133:TRP:HB3	2.20	0.42
11:ht:25:ILE:HB	11:ht:28:LEU:HD12	2.02	0.42
11:hy:139:GLU:OE2	11:hy:141:GLN:NE2	2.52	0.42
12:iC:174:ARG:HE	12:iC:174:ARG:HB2	1.61	0.42
12:iD:35:ILE:HA	12:iD:54:PHE:HB3	2.01	0.42
14:k3:4:THR:OG1	16:pB:78:ARG:NH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k3:36:PHE:O	14:k3:40:LEU:HB2	2.20	0.42
14:k3:48:TYR:HA	16:pB:25:THR:HG21	2.02	0.42
14:k4:119:LYS:HE3	14:k4:119:LYS:HB2	1.91	0.42
16:o0:131:ARG:NH2	16:o0:135:ASP:OD2	2.53	0.42
16:o1:106:LEU:HD23	16:o1:106:LEU:HA	1.82	0.42
16:o1:325:PRO:HG3	16:o1:343:THR:HG22	2.02	0.42
16:o6:105:LYS:HA	16:o6:105:LYS:HD2	1.80	0.42
16:o6:253:TRP:O	16:pA:303:LYS:NZ	2.33	0.42
16:pB:56:ASP:O	16:pB:59:LYS:HG2	2.20	0.42
17:q7:178:VAL:O	17:q7:181:VAL:HG12	2.19	0.42
1:S0:295:ILE:HG13	1:S5:301:ARG:HB3	2.02	0.42
1:S0:345:ALA:HB1	1:S7:347:MET:HE2	2.02	0.42
1:S1:60:ILE:O	1:S2:52:SER:HA	2.20	0.42
1:S1:139:ASN:OD1	1:S1:139:ASN:N	2.44	0.42
1:S1:509:GLY:HA3	1:S2:441:GLN:HE21	1.84	0.42
1:S2:213:TYR:HB2	1:S3:203:THR:O	2.19	0.42
1:S3:221:THR:HG23	1:S3:224:TYR:H	1.85	0.42
1:S4:289:GLN:H	1:S4:294:GLN:HE22	1.68	0.42
1:S5:291:ARG:HH22	1:S7:269:ALA:HB3	1.85	0.42
1:S5:341:ILE:HG21	1:S5:359:TRP:CZ2	2.55	0.42
1:S6:415:ASN:O	1:S6:424:ARG:NH1	2.47	0.42
1:S8:20:PRO:CG	1:S8:29:ILE:HG13	2.48	0.42
1:SA:401:ARG:HD2	1:Sy:516:ASN:ND2	2.34	0.42
1:SA:509:GLY:HA3	1:Sw:441:GLN:NE2	2.35	0.42
1:SO:121:PHE:CZ	1:SP:125:LEU:HB2	2.55	0.42
1:SO:462:ASN:HB3	1:SQ:482:TYR:HD1	1.84	0.42
1:SP:266:THR:HB	1:SP:273:SER:HB2	2.01	0.42
1:SQ:88:PRO:HG2	1:SQ:95:TYR:O	2.20	0.42
1:Sv:57:ILE:HG12	1:Sz:57:ILE:HG12	2.01	0.42
2:T1:35:PHE:O	2:T1:39:TYR:HD1	2.03	0.42
2:T1:50:VAL:O	2:T1:52:ASN:N	2.53	0.42
2:T4:26:ASP:O	2:T4:30:LYS:HG3	2.20	0.42
2:T8:242:ASN:N	2:T8:249:ILE:HD11	2.35	0.42
2:TF:86:ASP:HA	2:TF:110:ILE:HG13	2.02	0.42
2:TF:194:ARG:HG3	2:TF:195:THR:HG23	2.01	0.42
2:TH:86:ASP:HA	2:TH:110:ILE:HG13	2.00	0.42
2:Te:193:HIS:CG	2:Tg:118:VAL:HG11	2.55	0.42
2:Th:146:VAL:HA	2:Th:163:SER:O	2.19	0.42
2:Th:219:ILE:HG21	2:Th:254:PHE:HE2	1.84	0.42
3:Us:9:GLY:O	3:Us:11:ILE:HG13	2.19	0.42
3:Uu:42:GLN:NE2	3:Uu:51:ASN:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VM:94:VAL:HA	3:VM:174:TYR:O	2.20	0.42
3:Vr:10:VAL:HG11	3:Vt:10:VAL:HG11	2.02	0.42
3:Vr:16:ASP:N	3:Vr:16:ASP:OD1	2.53	0.42
4:Wj:9:ASN:HD22	6:ZZ:200:ILE:HG21	1.85	0.42
4:Wj:312:ARG:HG2	4:Wj:317:LEU:HA	2.02	0.42
4:Wk:544:VAL:HG22	4:Wo:569:TYR:CE1	2.55	0.42
4:Wl:357:SER:HA	4:Wl:371:PHE:CD1	2.55	0.42
4:Wn:263:ILE:HG22	4:Wn:381:ILE:HB	2.01	0.42
4:XI:195:HIS:C	4:XI:197:GLY:H	2.28	0.42
4:XJ:322:GLY:N	4:XJ:358:VAL:O	2.53	0.42
4:Xj:18:TYR:CD1	5:Yx:997:SER:HA	2.55	0.42
4:Xj:394:LEU:C	4:Xn:392:THR:HB	2.45	0.42
4:Xj:469:PRO:HA	4:Xj:472:TYR:CZ	2.55	0.42
4:Xj:590:GLN:HG2	4:Xn:590:GLN:NE2	2.33	0.42
4:Xk:163:ALA:H	4:Xk:246:THR:HG22	1.85	0.42
4:Xl:257:SER:O	4:Xl:258:TYR:HB3	2.20	0.42
4:Xm:335:ASP:O	4:Xm:336:SER:HB3	2.20	0.42
4:Xn:4:ASN:OD1	4:Xn:5:ILE:N	2.53	0.42
4:Xn:560:ASP:OD1	4:Xn:560:ASP:N	2.53	0.42
4:Xo:58:GLN:CD	4:Xo:58:GLN:H	2.28	0.42
4:Xo:79:ILE:HG13	4:Xo:109:LEU:HA	2.01	0.42
4:Xo:304:ILE:HB	4:Xo:309:LEU:HG	2.02	0.42
5:YC:7:SER:OG	5:YC:8:VAL:N	2.53	0.42
5:YC:207:PRO:HA	5:YC:229:VAL:HG23	2.01	0.42
5:YC:384:GLU:O	5:YC:385:THR:HG22	2.19	0.42
5:YX:454:ASN:HB2	5:YX:471:VAL:CG2	2.50	0.42
5:YY:214:ASP:CG	5:YY:217:GLN:HE22	2.28	0.42
5:Yc:382:GLU:OE2	5:Yc:400:ASP:N	2.48	0.42
5:Yc:719:LYS:HD2	5:Yc:719:LYS:HA	1.69	0.42
5:Yc:856:ASN:HB3	8:fB:495:PRO:HB3	2.02	0.42
5:Yy:189:ARG:HB2	5:Yy:203:GLU:OE2	2.20	0.42
5:Yy:203:GLU:HG3	5:Yy:204:ARG:H	1.85	0.42
5:Yy:382:GLU:HB2	5:Yy:398:SER:HB3	2.02	0.42
5:Yy:425:ARG:CZ	5:Yy:449:LYS:HE2	2.50	0.42
5:Yy:691:ARG:HG2	5:Yy:697:GLU:OE1	2.20	0.42
5:Yy:716:ASN:ND2	5:Yy:719:LYS:HB2	2.34	0.42
5:Yy:781:LEU:HD11	5:Yy:834:PHE:CD1	2.55	0.42
6:Zb:19:GLU:HG3	6:Zb:23:ASN:HD21	1.85	0.42
6:Zc:144:ILE:HG22	6:Zc:146:SER:H	1.85	0.42
6:aZ:115:ASN:OD1	6:aZ:122:THR:N	2.52	0.42
6:aa:202:ARG:HH11	6:aa:209:VAL:HG11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b3:72:LEU:HD13	7:b3:72:LEU:HA	1.81	0.42
7:b6:114:ASP:HB2	7:b6:131:ILE:HG13	2.02	0.42
7:b7:91:ASN:ND2	7:b7:195:LEU:HG	2.35	0.42
7:b7:302:LYS:HD3	7:b7:302:LYS:HA	1.86	0.42
7:b8:302:LYS:HD3	7:b8:302:LYS:HA	1.85	0.42
7:b9:37:PRO:HG3	7:b9:226:TYR:CZ	2.55	0.42
7:b9:116:ILE:N	7:b9:129:GLY:O	2.53	0.42
7:b9:572:LEU:O	7:b9:573:PHE:C	2.63	0.42
7:bN:557:PHE:O	7:bN:561:LYS:HG3	2.19	0.42
7:bP:494:TYR:CE2	7:dU:569:LYS:HD3	2.55	0.42
7:bR:202:GLU:H	7:bR:202:GLU:HG3	1.60	0.42
7:bR:561:LYS:NZ	7:cH:12:GLU:OE2	2.43	0.42
7:bY:160:TYR:CE2	7:bY:161:PRO:HB3	2.54	0.42
7:bY:308:ASN:ND2	7:bY:313:ASP:OD2	2.53	0.42
7:cB:221:GLY:O	7:cB:325:ALA:HA	2.20	0.42
7:cB:645:THR:HB	7:cB:650:ASP:OD1	2.19	0.42
7:cC:592:LEU:HD23	7:cC:604:TYR:HB2	2.01	0.42
7:cD:266:LYS:H	7:cD:266:LYS:HG2	1.63	0.42
7:cD:557:PHE:O	7:cD:561:LYS:HG3	2.20	0.42
7:cG:413:THR:OG1	7:cG:425:ASN:HB3	2.19	0.42
7:cI:29:LEU:O	7:cI:80:VAL:HA	2.19	0.42
7:cJ:33:PHE:HB2	7:cJ:82:ARG:HD2	2.02	0.42
7:cJ:205:MET:HE2	7:cJ:205:MET:HB3	1.78	0.42
7:cL:617:VAL:O	7:cL:622:GLU:HB2	2.20	0.42
7:cM:344:LEU:HD22	7:cM:344:LEU:HA	1.97	0.42
7:cM:413:THR:OG1	7:cM:425:ASN:HB3	2.19	0.42
7:cP:440:ASN:HD22	7:cP:442:ASN:HB2	1.85	0.42
7:dS:411:ARG:HG3	7:dS:415:VAL:HG21	2.01	0.42
7:dU:134:VAL:HG12	7:dU:140:ILE:HA	2.02	0.42
7:dZ:427:VAL:HG13	7:dZ:520:GLU:HG3	2.02	0.42
8:eB:174:ARG:HA	8:eB:270:ILE:O	2.20	0.42
8:eB:643:GLU:HG2	8:eB:646:LEU:HD22	2.02	0.42
8:eW:80:MET:C	8:eW:82:THR:H	2.27	0.42
8:eW:461:LYS:O	8:eW:465:LEU:HG	2.20	0.42
8:fB:340:VAL:O	8:fB:341:THR:OG1	2.28	0.42
8:fR:103:LYS:HD2	8:fR:319:PRO:HD3	2.02	0.42
8:fU:363:PHE:CG	8:fU:636:ASP:HB2	2.55	0.42
8:fW:327:GLU:O	8:fW:331:ILE:HG12	2.20	0.42
8:fr:169:GLN:NE2	8:fr:276:ASN:HB3	2.35	0.42
8:fs:10:LEU:HD13	8:fs:12:ARG:HE	1.84	0.42
8:fs:214:MET:HB3	8:fs:214:MET:HE2	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fs:448:TYR:CG	8:fs:642:PHE:HB2	2.55	0.42
9:gE:204:HIS:CD2	9:gE:244:LEU:HD13	2.55	0.42
9:gH:162:PRO:O	9:gH:166:ILE:HG12	2.20	0.42
9:gH:468:ASP:CG	9:gH:469:ASN:H	2.28	0.42
11:h1:63:ASP:HB3	11:hM:147:ASN:HB3	2.02	0.42
11:hK:104:PRO:O	11:hK:108:LYS:HB2	2.20	0.42
11:hX:76:ASP:OD1	11:hX:80:ASP:N	2.40	0.42
11:hj:45:ILE:HA	11:hk:135:THR:O	2.19	0.42
11:hl:104:PRO:O	11:hl:108:LYS:HB2	2.20	0.42
11:hn:140:LEU:HD12	11:hn:140:LEU:HA	1.92	0.42
11:hr:97:ASN:HA	11:hy:3:VAL:HG12	2.01	0.42
11:hw:48:LYS:HB2	11:hX:133:TRP:CZ2	2.55	0.42
12:iC:286:MET:HE2	12:iC:286:MET:HB2	1.86	0.42
12:iD:14:VAL:HG11	12:iD:52:LEU:HD11	2.02	0.42
14:IV:14:LYS:HA	14:IV:14:LYS:HD3	1.91	0.42
15:m1:8:TYR:HE1	16:pB:110:LEU:HD11	1.84	0.42
15:m2:55:CYS:SG	15:m2:57:LEU:HB2	2.60	0.42
15:m6:98:VAL:HB	15:m6:103:THR:OG1	2.20	0.42
15:mT:89:ASP:CG	15:mT:90:LYS:H	2.28	0.42
16:o6:277:MET:HE2	16:o6:284:VAL:HG21	2.00	0.42
16:pA:130:PRO:HG3	17:q4:142:ASN:HB3	2.02	0.42
16:pB:231:TYR:CG	16:pB:250:LEU:HD21	2.55	0.42
17:q4:148:ILE:HG13	17:q9:219:HIS:ND1	2.35	0.42
17:q8:215:MET:HB2	17:q8:215:MET:HE3	1.46	0.42
1:S0:401:ARG:HB3	1:S7:399:PHE:CE1	2.52	0.41
1:S2:14:ARG:NH2	1:S3:21:THR:OG1	2.52	0.41
1:S2:163:LEU:HB3	1:S3:155:ASP:HA	2.01	0.41
1:S4:477:TRP:O	1:S6:467:ASN:HA	2.20	0.41
1:S5:176:ILE:HG23	1:S5:177:ALA:N	2.35	0.41
1:S6:5:THR:HG21	4:Xl:200:LEU:HD22	2.01	0.41
1:S6:399:PHE:HE1	1:S8:401:ARG:HB3	1.85	0.41
1:S8:32:VAL:O	1:S8:36:ILE:HG12	2.20	0.41
1:S8:476:ASP:OD1	1:S8:479:ASN:ND2	2.45	0.41
1:Sv:220:SER:C	1:Sz:230:LEU:HB2	2.45	0.41
1:Sw:29:ILE:O	1:Sw:30:THR:OG1	2.30	0.41
1:Sy:110:VAL:HG12	1:Sy:111:ASN:H	1.84	0.41
1:Sz:466:SER:HB3	1:Sz:468:PHE:HE2	1.84	0.41
2:T6:202:LEU:HD11	2:T6:254:PHE:HZ	1.85	0.41
2:TH:152:SER:O	2:TH:158:SER:HA	2.20	0.41
2:Te:86:ASP:HA	2:Te:110:ILE:HG13	2.02	0.41
2:Te:192:PHE:HE1	2:Te:223:VAL:HG21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Tf:193:HIS:HB3	2:Tf:196:GLU:HG3	2.02	0.41
2:Th:44:ASP:HB3	2:Th:47:LYS:HG3	2.02	0.41
3:UL:85:THR:HG22	3:UL:183:ILE:HD12	2.02	0.41
3:UL:166:HIS:HE1	3:UN:39:THR:HB	1.84	0.41
3:UN:8:ALA:HB2	4:Wl:313:PHE:HE1	1.85	0.41
3:Uq:173:THR:HA	4:Wo:340:VAL:HG22	2.01	0.41
3:Ut:107:VAL:HG22	3:Ut:174:TYR:HD2	1.85	0.41
3:VN:55:ALA:O	3:VN:59:VAL:HG23	2.20	0.41
3:Vq:84:GLN:HB2	3:Vq:186:SER:HB3	2.02	0.41
3:Vs:65:LYS:O	3:Vs:217:ARG:NH1	2.53	0.41
3:Vs:193:TRP:CZ3	3:Vs:217:ARG:HB2	2.55	0.41
4:WJ:371:PHE:CE2	4:WJ:373:SER:HB3	2.55	0.41
4:WK:117:ILE:O	4:WK:118:LYS:HG3	2.19	0.41
4:Wk:386:PHE:CZ	4:Wm:390:LEU:HD13	2.55	0.41
4:Wl:322:GLY:N	4:Wl:358:VAL:O	2.53	0.41
4:Wl:562:SER:OG	5:YX:220:LYS:HA	2.19	0.41
4:Wm:89:TYR:CD1	4:Wm:139:ALA:HA	2.55	0.41
4:Wm:393:LEU:HD11	4:Wo:393:LEU:HB2	2.02	0.41
4:XI:172:GLN:HG3	4:XI:237:ASN:HA	2.02	0.41
4:XI:306:PRO:HA	4:XI:365:ILE:HG12	2.02	0.41
4:XI:315:GLY:HA2	4:XK:317:LEU:O	2.20	0.41
4:XJ:362:GLU:HB2	4:XJ:367:GLU:OE1	2.19	0.41
4:XJ:451:ASP:HA	4:XJ:600:ARG:HH12	1.84	0.41
4:XK:118:LYS:NZ	4:XK:145:TYR:O	2.39	0.41
4:XK:213:GLY:H	4:XK:232:LEU:HA	1.84	0.41
4:Xj:18:TYR:CD1	4:Xj:20:ARG:HB3	2.54	0.41
4:Xj:190:ASN:ND2	4:Xj:247:PHE:HB2	2.35	0.41
4:Xj:214:SER:O	4:Xj:215:PRO:C	2.63	0.41
4:Xk:70:ILE:HB	4:Xk:102:TRP:CZ2	2.51	0.41
4:Xm:11:VAL:HG21	4:Xo:21:LYS:HZ3	1.84	0.41
4:Xm:170:GLU:O	4:Xm:171:VAL:HG12	2.20	0.41
4:Xm:253:GLN:N	4:Xm:253:GLN:OE1	2.53	0.41
4:Xm:274:THR:OG1	4:Xm:275:SER:N	2.53	0.41
5:YC:192:LEU:HD12	5:YC:192:LEU:HA	1.90	0.41
5:YC:990:MET:HE2	5:YC:990:MET:HB2	1.67	0.41
5:YC:1019:PRO:HG3	6:ZD:93:ARG:HD3	2.01	0.41
5:YX:121:LYS:HG2	5:YX:158:VAL:HG13	2.02	0.41
5:YX:191:TYR:HE2	5:YX:204:ARG:HB3	1.85	0.41
5:YX:963:TYR:CG	5:YX:964:PRO:HD2	2.56	0.41
5:YY:142:ILE:H	5:YY:546:GLU:HG2	1.84	0.41
5:Yc:477:ARG:HD3	6:ZE:154:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:642:ASP:OD1	5:Yc:687:ARG:NH1	2.53	0.41
5:Yc:946:SER:O	5:Yc:947:VAL:HG22	2.20	0.41
5:Yx:237:VAL:O	5:Yx:238:TYR:HB3	2.19	0.41
5:Yx:402:GLY:HA3	5:Yx:415:ARG:HH21	1.85	0.41
5:Yx:691:ARG:HG3	8:fU:230:ILE:HD13	2.00	0.41
5:Yx:871:PRO:HA	5:Yx:894:THR:HB	2.02	0.41
6:ZD:279:LEU:H	6:ZD:306:SER:HB3	1.83	0.41
6:aD:108:ILE:H	6:aD:108:ILE:HD12	1.85	0.41
6:aa:50:ASN:O	6:aa:52:ASN:ND2	2.52	0.41
6:aa:110:ASP:O	6:aa:132:ARG:HA	2.20	0.41
6:aa:294:LYS:HB2	6:aa:297:TYR:CZ	2.55	0.41
7:b0:366:GLU:OE2	7:b5:514:ARG:NH1	2.53	0.41
7:b3:2:THR:OG1	7:b3:3:LEU:N	2.53	0.41
7:b6:574:GLU:HG2	7:b6:575:LEU:N	2.35	0.41
7:b7:104:SER:HB2	7:b7:181:VAL:HB	2.00	0.41
7:b7:550:ARG:HB3	7:b7:553:VAL:HG12	2.02	0.41
7:b8:30:ALA:HB3	7:b8:359:TRP:CE2	2.54	0.41
7:b9:355:LEU:HD23	7:b9:355:LEU:HA	1.84	0.41
7:bP:538:ASP:N	7:bP:538:ASP:OD1	2.53	0.41
7:bR:299:ARG:H	7:bR:299:ARG:HG2	1.41	0.41
7:bR:621:ASN:OD1	7:bR:621:ASN:N	2.52	0.41
7:cA:453:ASN:HB2	7:cA:506:ALA:HB3	2.00	0.41
7:cC:454:TYR:HB3	7:cC:467:TRP:HD1	1.85	0.41
7:cD:484:VAL:HG13	7:cD:485:SER:H	1.85	0.41
7:cD:504:LYS:HG2	7:cD:505:LEU:N	2.34	0.41
7:cD:563:ASN:CG	7:cD:591:TYR:HH	2.20	0.41
7:cE:159:GLU:HB3	7:cE:163:LEU:HA	2.02	0.41
7:cE:518:TYR:CE1	7:cE:539:LYS:HD3	2.55	0.41
7:cE:572:LEU:O	7:cE:573:PHE:C	2.62	0.41
7:cF:601:ILE:HG12	7:cF:629:ILE:HD13	2.00	0.41
7:cG:215:LYS:HB2	7:cG:329:ASN:ND2	2.35	0.41
7:cH:478:CYS:O	7:cH:555:ARG:NH1	2.53	0.41
7:cI:131:ILE:HG12	7:cI:143:ILE:HG22	2.02	0.41
7:cI:484:VAL:HG13	7:cI:485:SER:H	1.85	0.41
7:cI:511:GLN:NE2	7:cI:515:ASP:OD1	2.53	0.41
7:cK:308:ASN:ND2	7:cK:313:ASP:OD2	2.53	0.41
7:cK:650:ASP:C	7:cK:652:ASP:H	2.28	0.41
7:cL:487:THR:HG21	7:cL:559:MET:HE3	2.02	0.41
7:cL:557:PHE:CE1	7:cL:629:ILE:HD11	2.55	0.41
7:cM:137:ASP:OD1	7:cM:138:GLY:N	2.50	0.41
7:cO:304:ILE:H	7:cO:304:ILE:HG12	1.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cP:35:TRP:O	7:cP:54:PHE:HA	2.20	0.41
7:dT:57:PRO:HG3	7:dT:65:PHE:CD1	2.55	0.41
7:dU:509:THR:O	7:dU:514:ARG:NH1	2.53	0.41
7:dU:585:ARG:NH1	7:dU:606:VAL:HG23	2.35	0.41
7:dW:22:ASN:OD1	7:dW:22:ASN:N	2.52	0.41
7:dW:228:GLY:HA2	7:dW:345:SER:HB3	2.02	0.41
7:dW:301:GLY:O	7:dW:309:ILE:HG12	2.20	0.41
7:dW:305:TYR:CD1	7:dW:305:TYR:N	2.87	0.41
7:dZ:379:ALA:HA	7:dZ:411:ARG:HB2	2.02	0.41
7:dZ:380:GLY:HA3	16:o2:14:LYS:NZ	2.34	0.41
8:eB:123:ILE:HD11	8:eB:295:ILE:HD11	2.02	0.41
8:eB:554:ILE:CG2	8:eB:589:TYR:HB3	2.50	0.41
8:eU:169:GLN:HG3	8:eU:275:THR:HB	2.02	0.41
8:eU:229:THR:OG1	8:eU:233:ASN:OD1	2.25	0.41
8:eW:194:ARG:NH2	8:eW:228:GLU:OE1	2.43	0.41
8:f9:172:ILE:HD13	8:f9:273:ILE:HG12	2.01	0.41
8:f9:209:TRP:HB2	8:f9:223:ILE:HG21	2.00	0.41
8:fA:39:GLY:HA2	8:fA:44:LEU:HD23	2.02	0.41
8:fR:102:SER:OG	8:fR:103:LYS:N	2.53	0.41
8:fR:288:TYR:OH	8:fR:292:LEU:HB2	2.20	0.41
8:fS:72:ASN:O	8:fS:75:VAL:HG12	2.20	0.41
8:fU:246:ASN:HD21	8:fU:250:GLY:HA3	1.85	0.41
8:fU:643:GLU:HG2	8:fU:646:LEU:HD22	2.01	0.41
8:fW:51:SER:O	8:fW:55:VAL:HG23	2.20	0.41
8:fW:377:LYS:HA	8:fW:378:PRO:HD3	1.95	0.41
8:fr:332:LYS:HA	8:fr:332:LYS:HD2	1.85	0.41
9:gE:154:THR:O	9:gE:182:ARG:NH2	2.53	0.41
9:gE:280:MET:O	9:gE:284:MET:HG2	2.19	0.41
9:gE:375:LEU:HD13	9:gE:455:LYS:HB3	2.02	0.41
9:gE:568:ASP:HB3	9:gG:560:ILE:HG23	2.02	0.41
9:gH:526:GLN:HE21	9:gH:528:ASN:HD21	1.68	0.41
11:hI:66:PHE:HE2	11:hX:56:ARG:NH1	2.18	0.41
11:hK:32:PHE:HZ	11:hK:71:VAL:HG11	1.85	0.41
11:hs:25:ILE:HG23	11:hs:111:ALA:HB2	2.01	0.41
11:hs:64:ARG:NH1	11:hv:95:GLN:HG3	2.35	0.41
11:hu:107:TYR:O	11:hu:133:TRP:HB3	2.20	0.41
11:hv:62:GLY:O	11:hw:118:ARG:NH2	2.52	0.41
11:hz:1:MET:HB2	11:hz:1:MET:HE3	1.80	0.41
12:iC:332:GLN:NE2	12:iD:61:HIS:HE1	2.17	0.41
12:iD:63:LYS:HG2	16:o2:108:ASN:OD1	2.20	0.41
14:k4:124:ILE:HD13	14:k4:136:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:nT:8:TYR:CE1	16:pA:110:LEU:HD11	2.52	0.41
16:pB:83:ASN:OD1	16:pB:83:ASN:N	2.51	0.41
16:pB:87:SER:O	16:pB:88:SER:HB3	2.20	0.41
16:pB:218:ASP:O	16:pB:222:ILE:HG13	2.20	0.41
17:q9:23:SER:O	17:q9:202:ASN:ND2	2.53	0.41
17:q9:199:ILE:HG12	17:q9:218:MET:CE	2.50	0.41
17:q9:215:MET:HB2	17:q9:215:MET:HE2	1.63	0.41
1:S0:263:VAL:HB	1:S0:279:SER:HA	2.02	0.41
1:S0:360:ARG:HH12	1:S0:526:LYS:HE2	1.85	0.41
1:S0:452:GLY:HA2	1:S7:482:TYR:CD2	2.56	0.41
1:S1:77:THR:HG21	1:S2:72:ASN:HA	2.02	0.41
1:S3:255:SER:HB3	1:S3:263:VAL:HG13	2.03	0.41
1:S4:7:GLN:HB2	1:S4:15:TYR:CE2	2.55	0.41
1:S4:260:ARG:HG3	1:S8:264:LYS:NZ	2.34	0.41
1:S4:452:GLY:HA3	1:S8:480:ARG:O	2.19	0.41
1:S6:515:TRP:CZ2	1:S8:439:ILE:HG23	2.54	0.41
1:S8:9:VAL:HG11	4:Xj:234:GLN:HE22	1.84	0.41
1:S8:31:ASP:OD1	1:S8:31:ASP:N	2.53	0.41
1:S8:176:ILE:HG23	1:S8:177:ALA:H	1.84	0.41
1:SA:67:ILE:HA	1:SA:84:ARG:HH21	1.85	0.41
1:SA:229:LYS:HB3	1:Sw:225:LYS:HG2	2.03	0.41
1:SP:358:ALA:O	1:SP:524:LYS:HD2	2.20	0.41
1:Sv:405:ARG:NH2	1:Sv:415:ASN:OD1	2.52	0.41
1:Sz:85:LEU:HD12	1:Sz:85:LEU:HA	1.96	0.41
2:T1:239:ARG:HH21	2:T1:242:ASN:HD22	1.69	0.41
2:T5:222:LEU:HD13	2:T9:216:THR:HG21	2.02	0.41
2:T7:1:MET:HG2	2:T7:70:HIS:CG	2.55	0.41
2:T8:14:GLU:HB3	2:T8:17:ASN:OD1	2.20	0.41
2:T8:111:ASN:O	2:T8:143:TYR:HA	2.20	0.41
2:TF:10:ILE:HD11	2:TF:31:ILE:HD11	2.02	0.41
2:Td:40:ASN:O	2:Td:68:GLN:NE2	2.53	0.41
2:Td:106:CYS:HA	2:Td:148:LEU:O	2.20	0.41
2:Tf:61:ILE:HG21	2:Th:38:ILE:HA	2.01	0.41
2:Tg:67:TYR:CD2	2:Tg:84:ARG:HB3	2.55	0.41
2:Ti:152:SER:O	2:Ti:158:SER:HA	2.21	0.41
3:Up:82:VAL:HB	3:Up:187:LYS:HB3	2.02	0.41
3:Up:105:ILE:HA	4:Wj:272:SER:HB3	2.02	0.41
3:VN:87:TYR:CE1	3:VN:157:GLU:HB2	2.55	0.41
3:VN:174:TYR:H	4:XJ:340:VAL:HG21	1.85	0.41
3:Vq:61:ASN:HB3	3:Vs:163:ASN:HD21	1.86	0.41
3:Vr:36:GLY:HA2	3:Vr:55:ALA:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vr:79:PRO:HD3	3:Vr:215:PHE:CD2	2.55	0.41
3:Vs:4:LEU:O	4:Xo:318:GLN:NE2	2.52	0.41
3:Vs:162:ASP:CG	3:Vs:166:HIS:HE2	2.28	0.41
3:Vt:17:PHE:HD1	3:Vt:47:PHE:HB2	1.84	0.41
4:Wl:180:VAL:HG22	4:Wl:181:PHE:H	1.85	0.41
4:Wl:201:TYR:HD2	4:Wl:203:GLY:HA2	1.84	0.41
4:Wj:4:ASN:HD21	4:Wk:27:ASN:HD21	1.68	0.41
4:Wj:248:MET:HE2	4:Wj:248:MET:HB3	1.93	0.41
4:Wj:569:TYR:HE1	4:Wl:544:VAL:HG22	1.85	0.41
4:Wk:89:TYR:O	4:Wk:91:LYS:HG2	2.20	0.41
4:Wl:146:VAL:O	4:Wl:148:ASN:N	2.54	0.41
4:Wl:261:ARG:NE	4:Wl:297:GLY:O	2.43	0.41
4:Wm:255:ARG:HA	4:Wm:255:ARG:HD3	1.88	0.41
4:Wn:215:PRO:HB3	4:Wn:229:ASN:O	2.19	0.41
4:Wo:18:TYR:HB2	4:Wo:21:LYS:HB2	2.00	0.41
4:Wo:72:THR:HG22	4:Wo:77:VAL:HG22	2.01	0.41
4:Wo:357:SER:HB3	4:Wo:358:VAL:H	1.54	0.41
4:Xi:54:ALA:HB2	4:Xi:71:ASN:O	2.20	0.41
4:Xk:289:LYS:HE2	4:Xk:370:HIS:HE1	1.84	0.41
4:Xj:18:TYR:CD2	5:Yx:942:ILE:HD11	2.56	0.41
4:Xk:186:TYR:OH	4:Xk:191:ILE:HA	2.20	0.41
4:Xk:386:PHE:CZ	4:Xm:390:LEU:HD13	2.55	0.41
4:Xk:460:TYR:CE1	4:Xm:458:THR:HG23	2.56	0.41
4:Xi:261:ARG:HB2	4:Xi:383:ILE:HB	2.02	0.41
4:Xm:165:LYS:NZ	4:Xm:181:PHE:HA	2.35	0.41
4:Xm:421:ASN:HB2	4:Xm:434:GLU:HG3	2.02	0.41
4:Xn:19:LEU:HB3	5:Yx:992:PRO:HB3	2.02	0.41
4:Xn:86:VAL:HG13	4:Xn:87:ASN:N	2.35	0.41
4:Xn:102:TRP:O	4:Xn:103:ASN:HB2	2.19	0.41
4:Xn:206:PHE:HB3	4:Xn:223:VAL:HG13	2.03	0.41
4:Xn:311:VAL:C	4:Xn:312:ARG:HG3	2.44	0.41
4:Xn:405:ASN:OD1	4:Xn:405:ASN:N	2.52	0.41
4:Xn:480:LEU:HB3	4:Xn:483:GLN:HE21	1.86	0.41
5:YC:724:ALA:C	5:YC:726:PHE:N	2.77	0.41
5:YC:796:THR:HG22	5:YC:812:THR:O	2.20	0.41
5:YX:473:TYR:HB2	6:Za:59:PRO:HB2	2.01	0.41
5:YX:559:GLU:OE2	5:YX:561:TRP:NE1	2.53	0.41
5:YX:957:PRO:O	5:YX:958:MET:HG2	2.20	0.41
5:YY:19:ASN:HA	5:YY:71:ASP:O	2.20	0.41
5:Yc:484:HIS:O	5:Yc:485:TYR:HB3	2.20	0.41
5:Yc:680:GLY:HA3	8:fA:6:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:206:GLN:OE1	5:Yx:206:GLN:N	2.52	0.41
5:Yx:486:HIS:CD2	6:aa:65:VAL:HG13	2.55	0.41
5:Yx:761:GLU:HB2	5:Yx:862:TYR:CG	2.55	0.41
5:Yx:935:LYS:NZ	5:Yx:936:LEU:HD13	2.35	0.41
5:Yy:441:VAL:O	5:Yy:491:ILE:HG23	2.20	0.41
5:Yy:539:LEU:HD23	5:Yy:539:LEU:HA	1.92	0.41
5:Yy:697:GLU:O	5:Yy:725:ARG:NH1	2.53	0.41
6:ZE:92:ARG:NH2	6:ZE:94:ASP:OD2	2.49	0.41
6:ac:72:TRP:CZ3	6:ac:275:ILE:HD13	2.55	0.41
7:b0:74:TYR:CD1	7:b0:476:GLY:HA3	2.55	0.41
7:b4:535:LEU:HD23	7:b4:535:LEU:HA	1.94	0.41
7:b5:383:LEU:HD11	7:b5:436:TYR:CE2	2.55	0.41
7:b5:454:TYR:HB3	7:b5:467:TRP:CD1	2.55	0.41
7:b6:299:ARG:H	7:b6:299:ARG:HG2	1.64	0.41
7:b9:72:LEU:HD12	7:b9:72:LEU:HA	1.93	0.41
7:b9:116:ILE:HG12	7:b9:130:LYS:HA	2.02	0.41
7:bN:42:LYS:HE3	7:bN:42:LYS:HB3	1.87	0.41
7:bQ:129:GLY:HA2	7:bQ:146:PRO:HD3	2.02	0.41
7:bY:378:CYS:SG	7:bY:454:TYR:OH	2.58	0.41
7:cA:100:GLU:HG2	7:cA:186:LYS:O	2.20	0.41
7:cE:438:ASP:OD1	7:cE:438:ASP:N	2.44	0.41
7:cH:26:THR:HA	7:cH:77:ASP:O	2.19	0.41
7:cH:413:THR:OG1	7:cH:425:ASN:HB3	2.20	0.41
7:cJ:630:GLN:HA	7:cJ:631:PRO:HD3	1.93	0.41
7:cK:108:SER:O	7:cK:177:GLY:HA2	2.20	0.41
7:cK:557:PHE:CZ	7:cK:629:ILE:HD11	2.55	0.41
7:cM:29:LEU:O	7:cM:80:VAL:HA	2.19	0.41
7:cM:560:LEU:HD22	7:cM:629:ILE:HD13	2.02	0.41
7:cN:299:ARG:HD2	7:cN:310:TYR:CE1	2.55	0.41
7:cP:206:THR:HA	7:cP:211:GLN:HE21	1.84	0.41
7:cP:572:LEU:HA	7:cP:572:LEU:HD12	1.82	0.41
7:dS:529:GLY:HA3	14:IV:52:GLY:HA3	2.01	0.41
7:dV:490:SER:OG	7:dV:538:ASP:OD2	2.21	0.41
7:dZ:105:THR:O	7:dZ:180:ALA:HA	2.20	0.41
7:dZ:585:ARG:NH1	7:dZ:606:VAL:O	2.50	0.41
8:eB:378:PRO:C	8:eB:380:SER:H	2.26	0.41
8:eU:156:ASP:OD1	8:eU:156:ASP:N	2.53	0.41
8:eU:377:LYS:HA	8:eU:378:PRO:HD3	1.93	0.41
8:eU:512:SER:HB3	8:eU:540:ILE:H	1.85	0.41
8:eW:209:TRP:NE1	8:eW:213:SER:O	2.38	0.41
8:eW:502:ASN:N	8:eW:600:ASP:OD2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:fA:206:TRP:NE1	8:fA:222:THR:HB	2.35	0.41
8:fB:153:ALA:HB2	8:fB:163:PRO:HG3	2.00	0.41
8:fB:214:MET:HA	8:fB:217:ALA:HB2	2.02	0.41
8:fR:132:LEU:HD22	8:fR:142:PRO:HB2	2.02	0.41
8:fS:412:ASN:O	8:fS:638:SER:HA	2.20	0.41
8:fS:486:ARG:HD3	8:fS:486:ARG:HA	1.88	0.41
8:fU:173:VAL:O	8:fU:271:GLU:HA	2.20	0.41
8:fU:521:ARG:HG3	8:fU:533:ASP:OD2	2.20	0.41
8:fr:502:ASN:N	8:fr:600:ASP:OD2	2.53	0.41
8:fs:397:LYS:HD3	8:fs:397:LYS:HA	1.86	0.41
11:h2:1:MET:HE1	11:hs:54:MET:HE2	2.02	0.41
11:hI:112:ILE:HD11	11:hI:126:GLU:OE2	2.20	0.41
11:hK:116:TYR:CE1	11:hK:123:VAL:HG22	2.55	0.41
11:hi:7:THR:HA	11:hi:10:PHE:CE1	2.55	0.41
11:hk:136:ASN:O	11:hk:136:ASN:ND2	2.53	0.41
11:hn:112:ILE:HD11	11:hn:126:GLU:OE2	2.20	0.41
11:hv:80:ASP:O	11:hv:84:LYS:HG3	2.20	0.41
11:hy:17:ARG:HB2	11:hy:20:LEU:HD12	2.02	0.41
11:hy:140:LEU:HD11	11:hy:151:GLN:HG2	2.01	0.41
16:o1:212:THR:HG22	16:o1:341:THR:HB	2.01	0.41
16:o6:126:ASN:OD1	16:o6:126:ASN:N	2.53	0.41
16:o6:136:VAL:O	16:o6:137:ASP:C	2.63	0.41
16:pA:54:VAL:HG23	16:pA:55:THR:HG23	2.01	0.41
16:pB:85:SER:HB2	16:pB:96:ARG:HH22	1.86	0.41
17:q8:104:PHE:CZ	17:q9:213:ALA:HB3	2.55	0.41
1:S0:359:TRP:CE2	1:S0:524:LYS:HD3	2.55	0.41
1:S0:379:ILE:HD13	1:S0:379:ILE:HA	1.92	0.41
1:S0:502:LEU:HD21	1:S7:448:ALA:HB2	2.02	0.41
1:S1:106:ALA:HA	1:S3:118:PRO:HB3	2.01	0.41
1:S1:176:ILE:HG23	1:S1:177:ALA:H	1.85	0.41
1:S1:233:GLN:HE22	1:S1:249:THR:HA	1.85	0.41
1:S1:322:THR:CG2	1:S2:327:GLN:HE21	2.33	0.41
1:S2:440:GLN:NE2	1:S3:425:LEU:O	2.53	0.41
1:S4:32:VAL:O	1:S4:36:ILE:HG12	2.20	0.41
1:S5:492:PRO:O	1:S5:496:ARG:HG3	2.19	0.41
1:S6:5:THR:HG23	4:Xn:196:ARG:CZ	2.50	0.41
1:S6:171:LYS:HG2	3:Uq:213:TYR:OH	2.20	0.41
1:S8:63:GLU:OE1	1:S8:80:THR:HA	2.20	0.41
1:SA:206:GLU:HG3	1:Sy:193:LEU:HD13	2.01	0.41
1:SP:170:ILE:HD11	1:SQ:172:LEU:HD13	2.03	0.41
1:SQ:77:THR:HG22	1:SQ:80:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sv:51:SER:HB3	1:Sv:54:THR:HB	2.01	0.41
1:Sv:188:GLN:CD	1:Sz:192:GLN:HB2	2.45	0.41
1:Sv:213:TYR:HB2	1:Sx:203:THR:O	2.20	0.41
1:Sv:309:ALA:HB3	1:Sz:303:GLU:HA	2.01	0.41
1:Sv:363:HIS:O	1:Sv:396:ARG:NH2	2.53	0.41
1:Sv:435:GLY:HA2	1:Sz:517:ILE:HD11	2.02	0.41
1:Sw:176:ILE:HG12	1:Sw:177:ALA:N	2.35	0.41
1:Sx:60:ILE:HD11	1:Sx:77:THR:HB	2.01	0.41
1:Sx:117:THR:OG1	1:Sz:112:ASN:HA	2.20	0.41
1:Sx:132:ARG:HH21	1:Sx:138:SER:HB3	1.85	0.41
1:Sy:383:TYR:CZ	1:Sy:393:PRO:HG3	2.55	0.41
1:Sy:511:GLU:HB3	1:Sy:513:ARG:NH1	2.35	0.41
1:Sz:2:SER:HB3	4:Wj:209:ASN:HB3	2.03	0.41
1:Sz:145:SER:N	1:Sz:158:THR:OG1	2.53	0.41
2:T2:242:ASN:ND2	2:T2:244:THR:O	2.52	0.41
2:T4:15:ILE:HA	2:T4:23:ILE:HD13	2.02	0.41
2:T4:63:ALA:HB3	2:T6:83:THR:HA	2.01	0.41
2:T4:267:SER:OG	2:T4:272:MET:HG3	2.20	0.41
2:T5:199:MET:HE3	2:T5:199:MET:HB2	1.92	0.41
2:TG:64:THR:HG22	2:TH:84:ARG:HG2	2.01	0.41
2:TG:111:ASN:O	2:TG:143:TYR:HA	2.19	0.41
2:Td:79:VAL:N	2:Td:97:ILE:O	2.51	0.41
2:Tg:106:CYS:HB2	2:Tg:149:ARG:HE	1.85	0.41
2:Tg:179:TRP:CE3	2:Tg:189:ILE:HD13	2.56	0.41
3:UL:4:LEU:HD22	4:WJ:356:TYR:CD2	2.55	0.41
3:UL:152:ASP:OD1	3:UL:153:GLY:N	2.54	0.41
3:UL:200:THR:HG1	3:UM:204:ASP:CG	2.28	0.41
3:VL:15:ALA:HB2	3:VN:52:ILE:HD11	2.02	0.41
3:VM:88:TRP:O	3:VM:155:LYS:HA	2.21	0.41
3:Vs:17:PHE:CD1	3:Vs:47:PHE:HB2	2.55	0.41
3:Vt:133:LEU:HD13	3:Vt:146:TYR:HB2	2.02	0.41
4:WI:311:VAL:HG13	4:WI:320:LEU:HB2	2.02	0.41
4:WK:63:GLU:HG2	4:WK:66:LYS:HD3	2.01	0.41
4:WK:285:LEU:HD22	4:WK:375:PHE:H	1.85	0.41
4:WK:314:ASN:N	4:WK:380:ILE:O	2.40	0.41
4:WK:333:GLY:HA3	4:WK:352:SER:HB3	2.02	0.41
4:Wj:54:ALA:HB2	4:Wj:71:ASN:O	2.21	0.41
4:Wj:195:HIS:O	4:Wj:196:ARG:HB2	2.20	0.41
4:Wj:584:THR:HB	4:Wl:531:ASN:ND2	2.33	0.41
4:Wk:185:SER:OG	4:Wk:186:TYR:N	2.53	0.41
4:Wm:213:GLY:O	4:Wm:221:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wm:326:MET:HB2	4:Wm:326:MET:HE3	1.64	0.41
4:Wn:20:ARG:HH12	4:Wn:24:ILE:HD12	1.85	0.41
4:Wn:490:TRP:CD1	4:Wn:516:ALA:HA	2.55	0.41
4:Wo:172:GLN:HG3	4:Wo:237:ASN:HA	2.02	0.41
4:Wo:190:ASN:HD22	4:Wo:247:PHE:CB	2.32	0.41
4:XI:22:GLY:O	4:XI:26:ILE:HG22	2.21	0.41
4:XI:264:ARG:HB3	4:XK:326:MET:HE1	2.01	0.41
4:XI:443:PHE:HA	4:XI:448:ASN:HB2	2.02	0.41
4:XJ:94:ARG:HD2	4:XJ:134:GLU:HG2	2.01	0.41
4:XJ:393:LEU:HD11	4:XK:393:LEU:HD22	2.02	0.41
4:XK:78:THR:HA	4:XK:108:THR:HB	2.02	0.41
4:XK:468:ASN:OD1	4:XK:470:VAL:HG12	2.21	0.41
4:Xk:13:ASP:OD1	4:Xk:14:GLY:N	2.54	0.41
4:Xl:153:LYS:C	4:Xl:154:ILE:HG13	2.45	0.41
4:Xl:285:LEU:HD21	4:Xl:374:VAL:HA	2.02	0.41
4:Xl:311:VAL:HB	4:Xl:383:ILE:HD13	2.02	0.41
4:Xn:102:TRP:O	4:Xn:129:ARG:HA	2.20	0.41
4:Xo:32:GLU:O	4:Xo:36:GLU:HG2	2.20	0.41
5:YC:170:GLU:OE2	5:YX:539:LEU:HB2	2.20	0.41
5:YX:217:GLN:OE1	5:YX:218:THR:N	2.53	0.41
5:YX:527:ASN:OD1	5:YX:528:ASN:N	2.53	0.41
5:YX:557:VAL:HG13	5:YX:570:MET:HG2	2.01	0.41
5:YY:554:ASP:C	5:YY:556:LEU:H	2.29	0.41
5:YY:925:LEU:N	5:YY:926:PRO:HD3	2.34	0.41
5:YY:1000:THR:HG22	5:YY:1001:PHE:H	1.85	0.41
5:Yc:353:ASP:HB3	5:Yc:354:THR:H	1.57	0.41
5:Yc:660:GLN:OE1	7:dS:510:ARG:NH1	2.52	0.41
5:Yx:786:ILE:HG12	5:Yx:795:VAL:HG13	2.01	0.41
5:Yy:122:PHE:CE1	5:Yy:135:VAL:HG21	2.52	0.41
5:Yy:192:LEU:HD12	5:Yy:192:LEU:HA	1.86	0.41
5:Yy:653:MET:HB2	5:Yy:653:MET:HE2	1.69	0.41
6:aD:50:ASN:O	6:aD:50:ASN:ND2	2.52	0.41
6:aD:178:GLY:O	6:aD:189:GLU:HA	2.20	0.41
6:ab:130:VAL:HG12	6:ab:191:LEU:HD12	2.02	0.41
7:b0:253:PRO:HG2	7:b0:255:TYR:CE2	2.55	0.41
7:b0:317:LYS:O	7:b0:317:LYS:HG2	2.19	0.41
7:b0:451:ASP:CG	7:b0:474:ILE:HD13	2.45	0.41
7:b3:642:PHE:CZ	7:b8:564:ILE:HD11	2.56	0.41
7:b4:349:GLU:N	7:b4:349:GLU:OE1	2.54	0.41
7:bN:366:GLU:OE2	7:cL:514:ARG:NH1	2.52	0.41
7:bO:523:ASN:HB3	7:bO:537:GLY:HA3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:351:THR:OG1	7:bP:352:ALA:N	2.53	0.41
7:bQ:521:ALA:HB1	7:bQ:541:ALA:HA	2.01	0.41
7:bY:633:ARG:N	7:bY:633:ARG:HD2	2.35	0.41
7:cA:251:LEU:HD23	7:cA:262:ALA:HA	2.01	0.41
7:cB:110:TYR:H	7:cB:138:GLY:CA	2.34	0.41
7:cB:159:GLU:HG3	7:cB:167:TRP:HE1	1.85	0.41
7:cB:451:ASP:CG	7:cB:474:ILE:HD13	2.45	0.41
7:cC:373:PHE:HB2	7:cC:405:VAL:HG22	2.01	0.41
7:cD:57:PRO:HB3	7:cD:62:ALA:HA	2.03	0.41
7:cE:110:TYR:CE1	7:cE:177:GLY:HA3	2.56	0.41
7:cE:269:PHE:CE2	7:cE:280:ALA:HB1	2.55	0.41
7:cF:236:ILE:HD11	7:cF:323:ILE:HG21	2.00	0.41
7:cF:253:PRO:HG2	7:cF:255:TYR:HE1	1.85	0.41
7:cI:10:LEU:HD13	7:cM:561:LYS:HB3	2.01	0.41
7:cJ:379:ALA:HB2	7:cJ:454:TYR:CE2	2.55	0.41
7:cJ:460:LYS:H	7:cJ:460:LYS:HG3	1.49	0.41
7:cK:137:ASP:OD1	7:cK:137:ASP:N	2.33	0.41
7:cM:135:ASP:OD1	7:cM:136:ALA:N	2.53	0.41
7:cN:115:LYS:HD2	7:cN:115:LYS:HA	1.88	0.41
7:cN:120:TYR:HE1	7:cN:166:ASN:HD22	1.67	0.41
7:cO:470:LEU:HD12	7:cO:470:LEU:HA	1.89	0.41
7:dS:234:ILE:HB	7:dS:340:LEU:HD12	2.02	0.41
7:dT:130:LYS:HE3	7:dT:130:LYS:HB2	1.82	0.41
7:dU:614:THR:HB	7:dU:615:PRO:HD2	2.03	0.41
8:eW:47:ASP:CG	16:pB:273:LEU:HD11	2.44	0.41
8:fA:555:ILE:HG22	8:fA:590:TYR:H	1.85	0.41
8:fA:634:THR:HG22	8:fA:640:ILE:HG13	2.02	0.41
8:fB:227:ARG:HG2	8:fB:228:GLU:N	2.35	0.41
8:fS:103:LYS:H	8:fS:103:LYS:HG2	1.48	0.41
8:fU:223:ILE:HB	8:fU:259:GLY:HA2	2.02	0.41
8:fU:345:TYR:HB3	8:fU:362:THR:HG21	2.02	0.41
8:fU:611:LEU:HD11	8:fU:616:PHE:CZ	2.56	0.41
8:fr:429:LEU:HD23	8:fr:436:LEU:HG	2.02	0.41
8:fs:609:ILE:HA	8:fs:609:ILE:HD12	1.74	0.41
9:gH:232:ASN:HB3	9:gH:233:PRO:CD	2.49	0.41
11:h1:131:GLY:O	11:h1:159:LEU:HA	2.20	0.41
11:hM:136:ASN:O	11:hM:136:ASN:ND2	2.43	0.41
11:hf:19:ASN:OD1	11:hf:19:ASN:N	2.48	0.41
11:ho:114:ARG:HB3	11:ho:123:VAL:HG13	2.02	0.41
11:hu:37:LYS:NZ	11:hu:152:THR:OG1	2.51	0.41
12:iD:39:THR:HG21	13:jb:574:PRO:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iD:61:HIS:CG	12:iD:95:VAL:HG11	2.55	0.41
12:iD:350:ASN:OD1	16:pB:165:ILE:HD13	2.20	0.41
12:iF:6:ARG:HB2	12:iF:9:TYR:HB2	2.01	0.41
14:k7:173:ALA:HB3	14:k7:176:ASP:HB2	2.02	0.41
14:k8:7:ASP:HB3	16:o1:81:ARG:NH2	2.33	0.41
14:kV:141:ARG:HD3	14:kV:141:ARG:HA	1.62	0.41
15:m1:123:LYS:H	15:m1:123:LYS:HG2	1.66	0.41
16:o0:231:TYR:OH	16:o0:241:GLN:HG2	2.19	0.41
16:o0:360:TYR:HD2	16:o1:271:LYS:HB2	1.85	0.41
16:o1:40:THR:HG21	16:o1:217:GLU:HB3	2.01	0.41
16:pA:50:GLU:N	17:q8:94:GLN:O	2.52	0.41
16:pB:93:ARG:HB3	16:pB:94:THR:H	1.49	0.41
17:q9:130:MET:H	17:q9:130:MET:HG2	1.53	0.41
1:S0:206:GLU:HG3	1:S7:193:LEU:HD13	2.01	0.41
1:S0:515:TRP:CH2	1:S5:439:ILE:HG23	2.55	0.41
1:S1:117:THR:HG22	1:S1:120:LYS:HZ3	1.86	0.41
1:S2:175:GLN:HB3	3:Vq:198:ALA:HB3	2.02	0.41
1:S4:2:SER:N	4:Xj:239:GLY:O	2.54	0.41
1:S4:469:VAL:HA	1:S8:476:ASP:O	2.21	0.41
1:S6:8:HIS:HB3	4:Xn:196:ARG:NH1	2.25	0.41
1:S6:157:THR:OG1	1:S6:158:THR:N	2.52	0.41
1:S7:170:ILE:O	1:S7:174:ALA:CB	2.67	0.41
1:SA:12:GLU:HG3	1:SA:14:ARG:H	1.85	0.41
1:SA:210:ILE:HG22	1:Sy:210:ILE:O	2.20	0.41
1:SA:321:MET:HA	1:Sy:315:ILE:O	2.20	0.41
1:SO:63:GLU:HA	1:SO:66:VAL:HG22	2.02	0.41
1:SO:132:ARG:NH1	1:SQ:126:ASN:OD1	2.52	0.41
1:SO:283:TRP:CZ3	1:SO:284:ASN:HB3	2.56	0.41
1:SO:441:GLN:NE2	1:SQ:509:GLY:HA3	2.35	0.41
1:Sv:58:LEU:HD21	1:Sv:74:LYS:C	2.45	0.41
1:Sv:147:LEU:HB2	1:Sv:148:PRO:HD3	2.02	0.41
1:Sx:493:GLU:OE1	1:Sx:493:GLU:N	2.49	0.41
1:Sy:5:THR:HG21	4:Wm:200:LEU:HB2	2.03	0.41
2:T2:114:GLY:HA3	2:T2:143:TYR:CE2	2.56	0.41
2:TF:70:HIS:HB2	2:TF:75:TYR:CE2	2.55	0.41
2:Td:70:HIS:HB2	2:Td:75:TYR:CE2	2.56	0.41
2:Tf:92:VAL:CG1	5:YX:55:ARG:HH22	2.33	0.41
3:Ut:15:ALA:HA	3:Ut:18:LEU:HG	2.02	0.41
3:VL:43:LEU:HD23	3:VL:48:TYR:HD1	1.85	0.41
3:Vr:4:LEU:HD11	4:Xn:320:LEU:HD12	2.03	0.41
3:Vr:8:ALA:HB2	4:Xn:313:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vr:102:GLY:N	3:Vr:118:THR:OG1	2.53	0.41
3:Vu:125:PHE:O	3:Vu:129:VAL:HG23	2.20	0.41
4:Wl:18:TYR:CE1	4:Wl:20:ARG:HB3	2.54	0.41
4:Wl:544:VAL:HB	4:WJ:540:GLU:HB2	2.01	0.41
4:WJ:361:ASP:HB3	4:WJ:362:GLU:OE1	2.21	0.41
4:WK:132:ASP:OD1	4:WK:132:ASP:N	2.53	0.41
4:WK:559:PRO:HB3	5:YC:228:ARG:HH22	1.85	0.41
4:Wj:80:ASN:OD1	4:Wj:81:LEU:N	2.53	0.41
4:Wk:4:ASN:OD1	4:Wm:27:ASN:ND2	2.52	0.41
4:Wk:257:SER:OG	4:Wk:387:ASN:HB2	2.21	0.41
4:Wk:331:CYS:HA	4:Wk:349:TRP:HZ2	1.86	0.41
4:Wl:19:LEU:HA	5:YX:921:TRP:NE1	2.34	0.41
4:Wl:72:THR:OG1	4:Wl:101:THR:O	2.38	0.41
4:Wm:194:LYS:O	4:Wm:242:VAL:HA	2.20	0.41
4:Wm:258:TYR:HB2	4:Wm:390:LEU:HD21	2.03	0.41
4:Wn:88:ASP:OD2	4:Wn:91:LYS:NZ	2.34	0.41
4:Wn:94:ARG:HA	4:Wn:133:LEU:O	2.19	0.41
4:Wn:174:GLN:HE21	4:Wn:177:PHE:HE1	1.69	0.41
4:Wo:115:ASP:HB3	4:Wo:141:GLY:C	2.46	0.41
4:XI:137:TYR:HA	4:XI:143:TRP:CD1	2.54	0.41
4:XI:326:MET:HE3	4:XJ:279:SER:HB2	2.01	0.41
4:XI:361:ASP:OD1	4:XI:362:GLU:N	2.53	0.41
4:XI:569:TYR:HD1	4:XJ:544:VAL:HA	1.86	0.41
4:XJ:162:VAL:HB	4:XJ:247:PHE:HD1	1.84	0.41
4:XJ:274:THR:HA	4:XJ:282:VAL:HG11	2.02	0.41
4:XJ:357:SER:HA	4:XJ:371:PHE:CD2	2.55	0.41
4:XJ:421:ASN:HB2	4:XJ:434:GLU:HG3	2.02	0.41
4:XK:565:ILE:H	4:XK:565:ILE:HG12	1.63	0.41
4:Xj:3:GLN:HG2	4:Xj:25:LYS:HG3	2.03	0.41
4:Xj:289:LYS:HE2	4:Xj:370:HIS:HE1	1.85	0.41
4:Xj:399:ILE:HD12	4:Xn:399:ILE:HG21	2.02	0.41
4:Xj:569:TYR:CD1	4:Xi:544:VAL:HA	2.55	0.41
4:Xk:176:ASP:N	4:Xk:176:ASP:OD1	2.53	0.41
4:Xi:326:MET:HE1	4:Xn:264:ARG:N	2.35	0.41
4:Xi:572:ALA:HB3	4:Xn:543:ILE:HD12	2.02	0.41
4:Xm:320:LEU:HA	4:Xm:357:SER:CB	2.50	0.41
4:Xn:281:TYR:HD1	4:Xn:281:TYR:HA	1.77	0.41
4:Xo:208:GLU:OE1	4:Xo:233:ARG:NH1	2.52	0.41
4:Xo:469:PRO:HB2	4:Xo:478:TRP:NE1	2.36	0.41
5:YC:614:PRO:HB2	5:YC:617:VAL:HG22	2.02	0.41
5:YC:653:MET:SD	8:eB:59:LEU:HB2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:21:VAL:HG11	5:YX:100:PHE:CE1	2.55	0.41
5:YX:255:TYR:HB3	5:YX:297:TYR:HB2	2.02	0.41
5:YX:586:LEU:HD12	5:YX:597:TYR:HB2	2.01	0.41
5:YX:719:LYS:HG2	8:eU:256:TYR:CE2	2.55	0.41
5:YX:738:LYS:HD2	5:YX:882:PHE:O	2.21	0.41
5:YX:900:ILE:HD11	6:Zb:330:ILE:HG23	2.02	0.41
5:YY:651:THR:HG21	14:k8:55:ARG:HD3	2.02	0.41
5:YY:852:ILE:HG13	5:YY:853:ASP:N	2.36	0.41
5:YY:934:ALA:HB1	5:YY:942:ILE:HD12	2.02	0.41
5:Yc:314:THR:HG23	5:Yc:317:TYR:HB2	2.03	0.41
5:Yc:365:CYS:HA	5:Yc:379:ILE:HA	2.03	0.41
5:Yc:923:SER:OG	5:Yc:986:ARG:HG2	2.20	0.41
5:Yx:232:PRO:HG3	5:Yx:237:VAL:HG13	2.02	0.41
5:Yx:481:ALA:HB2	5:Yx:507:LYS:HZ1	1.85	0.41
5:Yx:675:LEU:HD12	5:Yx:675:LEU:HA	1.85	0.41
5:Yy:227:ASP:CG	5:Yy:228:ARG:HG2	2.46	0.41
5:Yy:240:GLN:HB3	5:Yy:245:THR:HA	2.01	0.41
5:Yy:724:ALA:C	5:Yy:726:PHE:N	2.77	0.41
5:Yy:876:LYS:O	5:Yy:880:ILE:HG12	2.20	0.41
5:Yy:917:LYS:HD2	5:Yy:917:LYS:HA	1.92	0.41
5:Yy:1012:LEU:HB2	5:Yy:1027:GLN:OE1	2.20	0.41
6:ZD:232:GLN:CD	6:ZD:232:GLN:H	2.28	0.41
6:Zb:230:THR:HG23	6:Zb:232:GLN:H	1.85	0.41
6:Zb:269:PHE:CE1	6:Zb:318:ILE:HB	2.55	0.41
6:aa:88:ALA:HB2	6:aa:212:TRP:CH2	2.55	0.41
6:ac:103:PRO:HG2	6:ac:104:TYR:CD2	2.55	0.41
7:b0:69:MET:O	7:b0:73:GLN:HG2	2.20	0.41
7:b0:222:VAL:HG22	7:b0:325:ALA:HB2	2.01	0.41
7:b0:456:TYR:HD1	7:b0:456:TYR:HA	1.73	0.41
7:b3:8:ILE:HD11	7:cF:569:LYS:HA	2.02	0.41
7:b3:193:ILE:HD11	7:b3:195:LEU:HD23	2.01	0.41
7:b6:83:ALA:HB2	7:b6:358:ALA:HB2	2.02	0.41
7:b6:284:ARG:HG2	7:b6:289:ILE:HD13	2.02	0.41
7:b6:310:TYR:CE2	7:b6:312:ASP:HB2	2.55	0.41
7:b9:332:GLU:CD	7:b9:332:GLU:H	2.29	0.41
7:b9:344:LEU:HD22	7:b9:344:LEU:HA	1.94	0.41
7:b9:488:TRP:HB3	7:b9:556:LEU:HD12	2.03	0.41
7:bN:296:SER:O	7:bN:311:ILE:HG12	2.20	0.41
7:bP:638:ILE:HG12	7:dU:623:PHE:HB3	2.03	0.41
7:bR:10:LEU:HD13	7:dV:561:LYS:HB3	2.02	0.41
7:bR:34:GLN:OE1	7:bR:58:THR:OG1	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bR:57:PRO:HA	7:bR:61:THR:HB	2.03	0.41
7:bR:430:ARG:HG3	7:bR:522:ILE:HD11	2.02	0.41
7:bR:549:ASP:OD2	7:bY:271:TYR:OH	2.26	0.41
7:cA:30:ALA:HB3	7:cA:359:TRP:CE2	2.56	0.41
7:cA:237:GLU:OE1	7:cA:284:ARG:NH1	2.46	0.41
7:cA:524:PRO:HG2	7:cA:536:TYR:HB3	2.02	0.41
7:cB:296:SER:O	7:cB:311:ILE:HG13	2.21	0.41
7:cD:72:LEU:HD13	7:cD:72:LEU:HA	1.91	0.41
7:cH:247:GLY:HA2	7:cH:266:LYS:HG3	2.01	0.41
7:cI:49:ASP:N	7:cI:49:ASP:OD1	2.53	0.41
7:cK:10:LEU:HD13	7:cO:561:LYS:HD2	2.01	0.41
7:cK:30:ALA:HB3	7:cK:359:TRP:NE1	2.35	0.41
7:cK:572:LEU:HD12	7:cK:572:LEU:HA	1.76	0.41
7:cM:57:PRO:HG3	7:cM:65:PHE:CD1	2.55	0.41
7:cM:114:ASP:N	7:cM:114:ASP:OD1	2.53	0.41
7:cM:406:LEU:HD22	7:cM:474:ILE:HG13	2.02	0.41
7:cN:379:ALA:O	7:cN:381:GLU:N	2.48	0.41
7:cO:510:ARG:H	7:cO:513:GLN:NE2	2.18	0.41
7:cP:110:TYR:CD1	7:cP:177:GLY:HA3	2.56	0.41
7:cP:366:GLU:H	7:cP:366:GLU:HG3	1.61	0.41
7:dS:33:PHE:HB2	7:dS:82:ARG:HG2	2.02	0.41
7:dS:557:PHE:O	7:dS:561:LYS:HG3	2.20	0.41
7:dT:559:MET:HE2	7:dT:559:MET:HB2	1.92	0.41
7:dU:38:ALA:HA	7:dU:82:ARG:HB2	2.02	0.41
7:dV:57:PRO:HG3	7:dV:65:PHE:CD1	2.55	0.41
7:dW:101:TYR:OH	7:dW:216:LYS:HG3	2.20	0.41
8:eB:21:PHE:HB3	8:f9:66:TYR:CE1	2.55	0.41
8:eB:292:LEU:HB3	8:eB:295:ILE:HB	2.02	0.41
8:eB:418:THR:HG21	8:eB:464:MET:HE1	2.02	0.41
8:eU:209:TRP:HB2	8:eU:223:ILE:HD12	2.02	0.41
8:eW:40:GLN:HG3	8:fs:55:VAL:HG21	2.02	0.41
8:eW:554:ILE:HG21	8:eW:589:TYR:HB3	2.02	0.41
8:fB:134:TYR:CE2	8:fB:142:PRO:HG3	2.55	0.41
8:fB:510:MET:HA	8:fB:624:TYR:O	2.20	0.41
8:fR:72:ASN:O	8:fR:75:VAL:HG12	2.20	0.41
8:fR:125:ILE:HB	8:fR:151:VAL:HG13	2.01	0.41
8:fR:198:LYS:HB3	8:fR:198:LYS:HE2	1.76	0.41
8:fU:123:ILE:O	8:fU:152:ILE:HD12	2.21	0.41
8:fW:25:THR:OG1	8:fW:28:GLU:HB2	2.21	0.41
8:fr:593:GLY:HA3	8:fr:604:TRP:HA	2.02	0.41
9:gG:560:ILE:O	9:gH:553:LYS:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gG:568:ASP:HB3	9:gH:560:ILE:HG23	2.03	0.41
10:gd:9:CYS:O	10:gd:22:VAL:HG23	2.21	0.41
11:hJ:60:VAL:HG23	11:hK:104:PRO:HG3	2.01	0.41
11:hL:147:ASN:HD21	11:hy:57:LYS:HE2	1.85	0.41
11:hM:45:ILE:HG23	11:hM:65:THR:O	2.20	0.41
11:hX:116:TYR:CE1	11:hX:123:VAL:HG22	2.55	0.41
11:hf:45:ILE:HA	11:hg:135:THR:O	2.19	0.41
11:hg:100:THR:HA	11:hk:119:ASP:OD1	2.20	0.41
11:hj:114:ARG:HB3	11:hj:123:VAL:HG13	2.02	0.41
11:hm:55:ASN:HB3	11:hm:56:ARG:H	1.70	0.41
11:hs:41:LEU:O	11:hs:42:PRO:C	2.63	0.41
11:hs:58:ILE:N	11:hs:58:ILE:HD13	2.35	0.41
12:iC:109:LEU:HD12	12:iC:109:LEU:HA	1.90	0.41
14:k3:31:ASN:C	14:k3:33:LYS:N	2.78	0.41
14:k7:6:PHE:HD2	14:k7:30:ARG:HG3	1.84	0.41
14:k7:141:ARG:HD3	14:k7:141:ARG:HA	1.70	0.41
14:k8:8:PRO:HG2	16:o1:96:ARG:NH2	2.35	0.41
15:nT:123:LYS:H	15:nT:123:LYS:HG2	1.62	0.41
16:o0:98:THR:H	16:o0:101:SER:HG	1.68	0.41
16:o1:110:LEU:HD13	16:o1:110:LEU:HA	1.94	0.41
16:o6:62:LEU:HD12	16:o6:62:LEU:HA	1.78	0.41
17:q3:262:LEU:HD22	17:q3:262:LEU:HA	1.91	0.41
17:q4:160:ILE:HD12	17:q4:243:PHE:CE1	2.55	0.41
17:q5:130:MET:H	17:q5:130:MET:HG2	1.62	0.41
17:q7:144:ASN:O	17:q7:145:SER:HB2	2.20	0.41
17:q9:37:LEU:HD22	17:q9:37:LEU:HA	1.71	0.41
1:S0:172:LEU:HB3	1:S7:170:ILE:HD11	2.02	0.41
1:S0:408:HIS:CD2	1:S7:437:VAL:HG21	2.55	0.41
1:S2:232:THR:HG22	1:S2:235:GLU:HG3	2.03	0.41
1:S2:383:TYR:CD1	1:S2:393:PRO:HG3	2.55	0.41
1:S4:463:THR:HG23	1:S8:483:PHE:CE1	2.55	0.41
1:S6:100:TYR:H	1:S8:92:GLU:HA	1.86	0.41
1:S7:117:THR:HG22	1:S7:120:LYS:NZ	2.35	0.41
1:S8:466:SER:HB3	1:S8:468:PHE:HE2	1.86	0.41
1:SA:99:ARG:HH21	1:SA:111:ASN:ND2	2.18	0.41
1:SA:145:SER:HB3	1:SA:158:THR:HG23	2.03	0.41
1:SA:443:SER:O	1:Sy:442:MET:HE1	2.21	0.41
1:SP:5:THR:HG21	4:WJ:200:LEU:HD13	2.03	0.41
1:SP:103:ASN:HA	1:SP:106:ALA:HB3	2.02	0.41
1:SP:303:GLU:HA	1:SQ:309:ALA:HB3	2.03	0.41
1:Sw:473:LYS:NZ	4:WK:362:GLU:HA	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sx:440:GLN:OE1	1:Sx:511:GLU:HG3	2.20	0.41
1:Sz:61:PRO:HB3	1:Sz:74:LYS:HD3	2.02	0.41
2:T3:161:ASN:OD1	2:T3:162:TYR:N	2.54	0.41
2:T3:215:LYS:HE2	2:T3:237:VAL:HG13	2.03	0.41
2:T7:239:ARG:HE	2:T7:242:ASN:ND2	2.19	0.41
2:Td:193:HIS:HA	2:Td:260:TYR:HA	2.02	0.41
2:Te:143:TYR:HB3	2:Te:168:PHE:HD2	1.84	0.41
2:Ti:65:GLY:HA3	2:Ti:84:ARG:NH1	2.36	0.41
3:UL:17:PHE:CZ	3:UL:45:LYS:HB3	2.54	0.41
3:Up:86:ASP:OD2	3:Up:180:GLN:NE2	2.52	0.41
3:VL:7:LYS:HA	3:VL:7:LYS:HD2	1.88	0.41
3:VM:30:MET:HE3	3:VM:30:MET:HB3	1.94	0.41
3:VM:37:SER:HA	3:VM:50:PRO:HB3	2.02	0.41
3:Vt:130:ARG:HE	3:Vt:148:ASP:CG	2.29	0.41
3:Vu:122:ALA:O	3:Vu:126:VAL:HG23	2.20	0.41
4:WI:237:ASN:OD1	4:WI:238:ILE:N	2.53	0.41
4:WK:259:THR:HB	4:WK:261:ARG:NH1	2.35	0.41
4:Wj:18:TYR:CD2	5:YX:942:ILE:HD11	2.55	0.41
4:Wj:49:TRP:C	4:Wn:90:ASN:HD21	2.28	0.41
4:Wm:139:ALA:HB3	4:Wm:140:PRO:HD3	2.03	0.41
4:Wm:188:VAL:HG11	4:Wo:129:ARG:HH21	1.85	0.41
4:Wo:332:VAL:HG13	4:Wo:339:GLU:O	2.20	0.41
4:XJ:70:ILE:HG22	4:XJ:102:TRP:HE1	1.85	0.41
4:XJ:560:ASP:OD2	5:Yc:210:LYS:NZ	2.30	0.41
4:XK:372:ASP:N	4:XK:372:ASP:OD1	2.54	0.41
4:Xj:166:GLU:N	4:Xj:166:GLU:OE1	2.54	0.41
4:Xj:192:ARG:NH2	4:Xl:245:GLU:OE1	2.51	0.41
4:Xj:340:VAL:C	4:Xj:342:CYS:H	2.28	0.41
4:Xk:144:GLU:HG2	4:Xm:151:ILE:HD13	2.02	0.41
4:Xk:414:VAL:HG23	4:Xk:441:ARG:HB3	2.02	0.41
4:Xl:139:ALA:HB3	4:Xl:140:PRO:HD3	2.02	0.41
4:Xl:305:ASN:HB3	4:Xn:255:ARG:NH1	2.36	0.41
4:Xn:318:GLN:HB2	4:Xn:320:LEU:HD13	2.02	0.41
4:Xo:139:ALA:HB3	4:Xo:140:PRO:HD3	2.02	0.41
5:YC:908:HIS:NE2	5:YC:911:THR:HG23	2.35	0.41
5:YX:139:ASN:HD21	5:YX:550:GLU:HA	1.85	0.41
5:YX:353:ASP:HB3	5:YX:354:THR:H	1.53	0.41
5:YY:114:ILE:HD12	5:YY:114:ILE:HA	1.94	0.41
5:YY:308:ALA:HA	5:YY:322:ALA:HB2	2.03	0.41
5:YY:357:ILE:HG12	5:YY:358:THR:H	1.85	0.41
5:YY:516:TRP:HE3	5:YY:523:ARG:HG2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:548:ILE:H	5:YY:548:ILE:HG13	1.41	0.41
5:YY:574:LYS:HG3	5:YY:609:GLU:HG2	2.02	0.41
5:YY:694:TYR:HD2	5:YY:696:ARG:HG2	1.86	0.41
5:Yc:59:LEU:HD11	5:Yc:69:PHE:CG	2.55	0.41
5:Yc:204:ARG:O	5:Yc:230:GLY:N	2.53	0.41
5:Yc:981:GLN:H	5:Yc:981:GLN:CD	2.26	0.41
5:Yx:134:TYR:CZ	5:Yx:593:GLU:HG2	2.55	0.41
5:Yx:514:PHE:CD1	5:Yx:525:TRP:HB2	2.55	0.41
5:Yx:517:SER:O	5:Yx:521:ASN:HA	2.20	0.41
5:Yx:946:SER:O	5:Yx:947:VAL:HG22	2.21	0.41
5:Yy:46:GLY:HA3	5:Yy:49:LEU:HB2	2.02	0.41
5:Yy:646:ARG:HG3	5:Yy:647:PRO:HD3	2.03	0.41
6:Zc:88:ALA:HA	6:Zc:246:THR:O	2.21	0.41
6:aa:43:ARG:HD3	6:aa:74:HIS:CG	2.56	0.41
6:ab:257:TYR:HB3	6:ab:296:TYR:CD2	2.56	0.41
6:ac:21:MET:HG3	6:ac:247:ILE:CG1	2.51	0.41
6:ac:128:TRP:N	6:ac:128:TRP:CD1	2.88	0.41
7:b0:383:LEU:HD11	7:b0:436:TYR:HE2	1.84	0.41
7:b3:215:LYS:HB2	7:b3:329:ASN:ND2	2.35	0.41
7:b6:538:ASP:N	7:b6:538:ASP:OD1	2.52	0.41
7:b7:166:ASN:OD1	7:b7:166:ASN:N	2.52	0.41
7:b7:557:PHE:CZ	7:b7:629:ILE:HD11	2.55	0.41
7:b8:110:TYR:H	7:b8:138:GLY:CA	2.34	0.41
7:bN:24:THR:N	7:bN:483:ASN:OD1	2.54	0.41
7:bN:609:ASP:OD1	7:bN:611:THR:OG1	2.31	0.41
7:bO:198:ILE:HG23	7:bO:324:PHE:CE2	2.55	0.41
7:bP:220:PRO:HG2	7:bP:338:LEU:HD11	2.02	0.41
7:bQ:243:ASP:HA	7:bQ:246:LYS:HE2	2.02	0.41
7:bQ:626:THR:HG23	7:cO:641:ASN:HB2	2.01	0.41
7:bQ:642:PHE:CE1	7:dV:564:ILE:HD11	2.52	0.41
7:bR:404:LEU:HD22	7:bR:404:LEU:HA	1.96	0.41
7:bY:229:GLU:H	7:bY:229:GLU:HG2	1.58	0.41
7:bY:430:ARG:HB2	7:bY:522:ILE:HD11	2.03	0.41
7:cC:240:SER:HG	7:cC:335:SER:HG	1.64	0.41
7:cD:30:ALA:HB3	7:cD:359:TRP:CE2	2.56	0.41
7:cD:36:GLY:O	7:cD:82:ARG:NH1	2.54	0.41
7:cD:614:THR:C	7:cD:616:SER:H	2.28	0.41
7:cG:467:TRP:CH2	7:cH:199:GLU:HB2	2.56	0.41
7:cH:119:LYS:NZ	7:cH:124:ASP:OD1	2.53	0.41
7:cH:162:THR:O	7:cH:186:LYS:HB3	2.21	0.41
7:cH:644:ALA:O	7:cH:645:THR:OG1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cI:108:SER:O	7:cI:177:GLY:HA2	2.21	0.41
7:cI:169:ALA:HB2	7:cI:184:LEU:HD11	2.02	0.41
7:cI:302:LYS:HD3	7:cI:302:LYS:HA	1.88	0.41
7:cJ:355:LEU:HD23	7:cJ:355:LEU:HA	1.89	0.41
7:cL:110:TYR:H	7:cL:138:GLY:CA	2.34	0.41
7:cL:235:GLU:OE2	7:cL:261:ARG:NH1	2.54	0.41
7:cM:423:VAL:HG13	7:cM:517:LEU:HD13	2.02	0.41
7:cO:108:SER:O	7:cO:177:GLY:HA2	2.21	0.41
7:dS:585:ARG:NH1	7:dS:606:VAL:HG23	2.36	0.41
7:dU:400:ARG:HD3	7:dU:403:CYS:SG	2.60	0.41
7:dU:518:TYR:CZ	7:dU:539:LYS:HD3	2.55	0.41
7:dV:473:ASP:HB3	7:dV:499:ILE:HG23	2.03	0.41
7:dZ:614:THR:HB	7:dZ:615:PRO:HD2	2.03	0.41
8:eB:96:ASN:ND2	8:eB:329:GLY:O	2.54	0.41
8:eB:303:ASN:N	8:eB:304:PRO:HD3	2.36	0.41
8:eU:392:ILE:CD1	8:eU:408:ILE:HG12	2.51	0.41
8:eU:522:LYS:HA	8:eU:532:GLU:O	2.21	0.41
8:f9:493:LYS:HG2	8:f9:494:THR:O	2.21	0.41
8:f9:546:ASP:CG	8:f9:547:SER:N	2.78	0.41
8:fA:154:ILE:H	8:fA:154:ILE:HG13	1.60	0.41
8:fA:523:VAL:HG22	8:fA:524:VAL:H	1.85	0.41
8:fB:552:LYS:HB3	8:fB:591:VAL:HG13	2.03	0.41
8:fR:421:LYS:HA	8:fR:654:ASP:O	2.20	0.41
8:fR:448:TYR:CG	8:fR:642:PHE:HB2	2.56	0.41
8:fS:81:ARG:HA	8:fS:326:ARG:HD3	2.01	0.41
8:fU:121:ASN:HA	8:fU:155:ARG:HG3	2.02	0.41
8:fW:303:ASN:N	8:fW:304:PRO:HD3	2.35	0.41
8:fW:528:THR:HG23	8:fW:529:GLY:H	1.86	0.41
9:gG:221:LEU:HD23	9:gG:221:LEU:HA	1.83	0.41
9:gH:76:PRO:HB3	9:gH:80:THR:HG21	2.01	0.41
11:h1:96:GLY:HA2	11:h2:161:TYR:CD1	2.55	0.41
11:h2:143:ASP:OD1	11:h2:144:TRP:N	2.54	0.41
11:hK:56:ARG:HB3	11:hK:56:ARG:NH1	2.36	0.41
11:hX:22:GLN:HB2	11:hX:116:TYR:CE2	2.48	0.41
11:hX:120:ALA:HB2	11:hX:99:ILE:O	2.20	0.41
11:he:10:PHE:HD2	11:he:14:ASP:H	1.68	0.41
11:hj:27:TYR:CD1	11:hj:109:LYS:HE2	2.56	0.41
11:hl:54:MET:H	11:hl:54:MET:HG2	1.72	0.41
11:ht:23:VAL:HG22	11:ht:36:CYS:SG	2.61	0.41
12:iF:118:LEU:HD12	12:iF:118:LEU:HA	1.91	0.41
14:k4:139:LYS:HE3	14:k4:139:LYS:HB2	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k8:141:ARG:HD3	14:k8:141:ARG:HA	1.65	0.41
14:IV:44:ARG:NH1	15:m2:118:ASP:OD2	2.53	0.41
16:o0:36:ALA:HB3	16:o0:127:ILE:HG22	2.02	0.41
16:o1:136:VAL:O	16:o1:137:ASP:C	2.63	0.41
16:o1:249:TYR:CE2	16:o1:264:PRO:HA	2.55	0.41
16:o2:62:LEU:HD12	16:o2:62:LEU:HA	1.87	0.41
16:o2:323:LYS:HB3	16:o2:339:PRO:HG3	2.03	0.41
17:q3:257:ARG:H	17:q3:257:ARG:HG2	1.55	0.41
17:q4:16:PHE:CE1	17:q9:124:MET:HE2	2.55	0.41
17:q7:174:MET:O	17:q7:178:VAL:HG23	2.21	0.41
1:S0:188:GLN:N	1:S0:188:GLN:OE1	2.54	0.41
1:S0:235:GLU:OE1	1:S0:243:VAL:HG11	2.20	0.41
1:S0:330:ARG:NE	1:S7:334:GLN:OE1	2.48	0.41
1:S2:129:PHE:CD2	1:S2:141:VAL:HG11	2.56	0.41
1:S2:162:PRO:HB2	1:S3:153:GLY:HA3	2.02	0.41
1:S2:193:LEU:HD13	1:S3:206:GLU:HG3	2.02	0.41
1:S2:493:GLU:HG3	1:S2:496:ARG:NH2	2.36	0.41
1:S3:446:LYS:NZ	1:S3:460:PHE:HB3	2.36	0.41
1:S4:49:ASP:O	1:S4:57:ILE:N	2.54	0.41
1:S4:289:GLN:OE1	1:S4:294:GLN:NE2	2.53	0.41
1:S6:132:ARG:NH2	1:S6:138:SER:HB3	2.36	0.41
1:S6:146:SER:HB2	1:S6:149:GLN:HG2	2.03	0.41
1:S7:16:VAL:O	1:S7:31:ASP:HA	2.21	0.41
1:S7:107:ILE:HD12	1:S7:107:ILE:HA	1.84	0.41
1:S7:160:MET:HE2	1:S7:165:THR:HG21	2.02	0.41
1:SA:515:TRP:CZ2	1:Sw:439:ILE:HG23	2.56	0.41
1:SO:475:LEU:HD22	1:SP:469:VAL:HG22	2.02	0.41
1:SP:147:LEU:HB2	1:SP:148:PRO:HD3	2.01	0.41
1:SP:212:PRO:HB2	1:SQ:203:THR:HG22	2.02	0.41
1:Sw:89:ASN:C	1:Sw:96:GLY:HA3	2.46	0.41
1:Sw:117:THR:OG1	1:Sy:112:ASN:HA	2.20	0.41
1:Sx:397:GLY:O	1:Sz:401:ARG:NH2	2.39	0.41
1:Sx:519:LEU:O	1:Sz:403:SER:N	2.53	0.41
1:Sz:63:GLU:OE1	1:Sz:80:THR:HA	2.21	0.41
2:T1:205:THR:HG23	2:T1:216:THR:HG22	2.02	0.41
2:T2:228:SER:C	2:T2:256:ILE:HD12	2.46	0.41
2:T6:168:PHE:CE1	2:T8:149:ARG:HB3	2.55	0.41
2:T6:194:ARG:HE	2:T6:259:ASN:HA	1.85	0.41
2:T7:199:MET:HE3	2:T7:199:MET:HB2	1.96	0.41
2:T8:193:HIS:HB3	2:T8:196:GLU:HG3	2.02	0.41
2:T9:102:GLU:HA	2:T9:153:SER:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T9:114:GLY:HA3	2:T9:143:TYR:CE2	2.55	0.41
2:TG:35:PHE:O	2:TG:39:TYR:HD1	2.03	0.41
2:TG:63:ALA:O	2:TH:84:ARG:NE	2.53	0.41
2:Td:26:ASP:O	2:Td:30:LYS:HG3	2.21	0.41
2:Td:239:ARG:HB3	2:Td:249:ILE:HD12	2.03	0.41
3:UM:173:THR:HA	4:WI:339:GLU:HG2	2.03	0.41
3:Us:51:ASN:OD1	3:Us:54:SER:N	2.44	0.41
3:Vq:4:LEU:HG	4:Xm:318:GLN:HB3	2.02	0.41
4:WI:9:ASN:C	4:WI:11:VAL:H	2.19	0.41
4:WI:117:ILE:H	4:WI:117:ILE:HG13	1.50	0.41
4:WI:165:LYS:HZ1	4:WI:182:ARG:H	1.69	0.41
4:WI:536:GLU:HB3	4:WK:575:SER:HA	2.03	0.41
4:WK:23:GLY:C	4:WK:25:LYS:N	2.78	0.41
4:Wj:23:GLY:C	4:Wj:25:LYS:N	2.78	0.41
4:Wk:18:TYR:CD1	4:Wk:20:ARG:HB3	2.56	0.41
4:Wk:594:THR:OG1	4:Wm:518:GLY:N	2.54	0.41
4:Wl:186:TYR:CD1	4:Wl:227:GLY:HA2	2.40	0.41
4:Wl:202:TYR:CG	4:Wl:225:LEU:HD12	2.56	0.41
4:Wm:161:ASN:CG	4:Wm:249:ASP:HB3	2.46	0.41
4:Wn:130:PHE:HB2	4:Wn:150:GLN:OE1	2.21	0.41
4:Wn:359:GLU:HB3	4:Wn:370:HIS:HB3	2.03	0.41
4:Wo:23:GLY:C	4:Wo:25:LYS:N	2.78	0.41
4:Wo:139:ALA:HB3	4:Wo:140:PRO:HD3	2.01	0.41
4:XJ:258:TYR:O	4:XJ:259:THR:OG1	2.28	0.41
4:XK:20:ARG:HH12	4:XK:24:ILE:HD12	1.86	0.41
4:Xj:49:TRP:C	4:Xn:90:ASN:HD21	2.28	0.41
4:Xj:321:ALA:O	4:Xj:324:VAL:HG12	2.21	0.41
4:Xj:481:PHE:CZ	4:Xn:593:ILE:HD13	2.55	0.41
4:Xm:217:GLU:HB2	4:Xm:222:LEU:HB2	2.02	0.41
4:Xo:39:ASP:CG	4:Xo:48:ALA:HB1	2.45	0.41
5:YC:473:TYR:OH	6:ZZ:70:ASP:OD2	2.34	0.41
5:YC:714:TYR:HD1	5:YC:714:TYR:HA	1.69	0.41
5:YX:113:MET:HE3	5:YX:598:TYR:HE2	1.85	0.41
5:YX:232:PRO:HG3	5:YX:237:VAL:HG13	2.02	0.41
5:YX:401:LYS:O	5:YX:427:ILE:HD12	2.21	0.41
5:YY:442:SER:HA	5:YY:490:PHE:O	2.20	0.41
5:YY:906:LEU:HD23	6:Zc:17:ARG:HD3	2.03	0.41
5:YY:1012:LEU:HD13	5:YY:1027:GLN:NE2	2.35	0.41
5:Yc:15:LYS:HA	5:Yc:625:ASN:HB3	2.02	0.41
5:Yc:145:ALA:HA	5:Yc:542:THR:HA	2.03	0.41
5:Yc:360:ASN:C	5:Yc:362:LYS:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:711:ARG:NH1	5:Yc:881:ARG:HG2	2.35	0.41
5:Yc:761:GLU:CD	8:fB:371:TYR:HH	2.29	0.41
5:Yx:380:ILE:O	5:Yx:401:LYS:HD2	2.20	0.41
5:Yx:382:GLU:HB2	5:Yx:398:SER:HB3	2.01	0.41
5:Yx:456:VAL:HG12	6:aa:48:SER:OG	2.21	0.41
5:Yx:515:ASN:OD1	5:Yx:524:CYS:HB3	2.20	0.41
5:Yy:240:GLN:OE1	5:Yy:519:LYS:HB3	2.20	0.41
5:Yy:349:LEU:HA	5:Yy:349:LEU:HD22	1.72	0.41
5:Yy:636:GLU:C	5:Yy:638:ARG:H	2.28	0.41
5:Yy:745:LYS:H	5:Yy:745:LYS:HG2	1.56	0.41
5:Yy:909:THR:HG23	6:aa:331:LEU:HB2	2.02	0.41
6:ZZ:102:ASP:OD1	6:ZZ:102:ASP:N	2.51	0.41
6:ZZ:270:ARG:CZ	6:ZZ:317:PRO:HB3	2.51	0.41
6:aD:66:LEU:HD13	6:aD:66:LEU:HA	1.83	0.41
6:aE:72:TRP:CZ3	6:aE:275:ILE:HD13	2.56	0.41
6:aa:263:LEU:HD23	6:aa:263:LEU:HA	1.86	0.41
6:aa:313:GLU:HG3	6:ac:10:ALA:HB2	2.01	0.41
6:ac:202:ARG:HB3	6:ac:209:VAL:HG21	2.01	0.41
7:b0:539:LYS:HG2	7:b0:550:ARG:NH2	2.36	0.41
7:b4:44:VAL:HG11	7:b4:50:LEU:HB2	2.03	0.41
7:b5:100:GLU:HG2	7:b5:186:LYS:O	2.21	0.41
7:b5:505:LEU:HD12	7:b5:505:LEU:HA	1.90	0.41
7:b6:368:VAL:HG12	7:b6:370:VAL:HG22	2.03	0.41
7:b6:455:LYS:HD2	7:b6:457:GLN:HB2	2.03	0.41
7:b7:332:GLU:OE1	7:b7:332:GLU:N	2.40	0.41
7:bN:72:LEU:HD13	7:bN:72:LEU:HA	1.86	0.41
7:bN:109:ASN:ND2	7:bN:176:SER:O	2.53	0.41
7:bP:366:GLU:H	7:bP:366:GLU:HG3	1.65	0.41
7:bQ:299:ARG:H	7:bQ:299:ARG:HG2	1.67	0.41
7:bR:198:ILE:HD11	7:bR:225:LEU:HD11	2.03	0.41
7:bR:655:THR:HA	7:bY:16:GLN:HG3	2.03	0.41
7:bY:46:ASN:HD22	7:bY:47:GLU:H	1.67	0.41
7:bY:221:GLY:O	7:bY:325:ALA:HA	2.21	0.41
7:bY:264:THR:O	7:bY:268:VAL:HG22	2.21	0.41
7:bY:505:LEU:HD12	7:bY:505:LEU:HA	1.85	0.41
7:cA:43:GLN:OE1	7:cA:79:ARG:NH1	2.49	0.41
7:cB:317:LYS:O	7:cB:317:LYS:HG2	2.20	0.41
7:cC:430:ARG:HG3	7:cC:522:ILE:HD11	2.02	0.41
7:cC:485:SER:OG	7:cC:486:GLN:N	2.54	0.41
7:cD:651:PHE:O	7:cD:654:LEU:HB2	2.21	0.41
7:cE:137:ASP:OD1	7:cE:137:ASP:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cF:91:ASN:ND2	7:cF:195:LEU:HG	2.35	0.41
7:cF:110:TYR:N	7:cF:138:GLY:HA3	2.33	0.41
7:cF:202:GLU:H	7:cF:202:GLU:HG3	1.63	0.41
7:cF:344:LEU:HD22	7:cF:344:LEU:HA	1.97	0.41
7:cH:2:THR:OG1	7:cH:3:LEU:N	2.53	0.41
7:cH:480:ARG:O	7:cH:482:ASP:N	2.54	0.41
7:cH:552:ASN:OD1	7:cH:553:VAL:N	2.53	0.41
7:cI:134:VAL:HG12	7:cI:140:ILE:HG22	2.01	0.41
7:cJ:514:ARG:NH1	7:cO:366:GLU:OE2	2.53	0.41
7:cK:153:LYS:O	7:cK:157:VAL:HG22	2.20	0.41
7:cK:383:LEU:HD11	7:cK:436:TYR:CE1	2.55	0.41
7:cM:35:TRP:O	7:cM:54:PHE:HA	2.20	0.41
7:cM:142:LYS:HE2	7:cM:142:LYS:HB2	1.95	0.41
7:cN:30:ALA:HA	7:cN:81:VAL:O	2.21	0.41
7:cN:403:CYS:O	7:cN:558:ASN:ND2	2.48	0.41
7:cN:574:GLU:HG2	7:cN:575:LEU:N	2.34	0.41
7:cP:72:LEU:HA	7:cP:72:LEU:HD12	1.78	0.41
7:dS:373:PHE:HB2	7:dS:405:VAL:HA	2.03	0.41
7:dS:490:SER:OG	7:dS:538:ASP:OD2	2.29	0.41
7:dT:571:ARG:HH21	7:dT:587:GLU:CD	2.28	0.41
7:dW:373:PHE:HB2	7:dW:405:VAL:HG22	2.03	0.41
7:dZ:202:GLU:H	7:dZ:202:GLU:HG3	1.71	0.41
7:dZ:554:ARG:O	7:dZ:554:ARG:HD3	2.20	0.41
8:eB:494:THR:HG21	8:eB:602:ILE:O	2.20	0.41
8:eU:216:HIS:O	8:eU:217:ALA:C	2.63	0.41
8:f9:437:GLU:O	8:f9:441:ILE:HG22	2.20	0.41
8:f9:484:MET:HE3	8:f9:632:ILE:HD12	2.02	0.41
8:fA:328:LEU:HA	8:fA:328:LEU:HD23	1.79	0.41
8:fA:413:TYR:HB3	8:fA:639:LEU:HD12	2.03	0.41
8:fW:527:ASP:OD2	8:fW:528:THR:HG22	2.21	0.41
9:gG:37:PRO:HA	9:gG:113:GLY:HA3	2.03	0.41
9:gG:450:VAL:HA	9:gH:442:THR:HG23	2.02	0.41
9:gG:569:GLY:O	10:gd:93:LYS:HE2	2.20	0.41
11:h2:49:ILE:O	11:h2:49:ILE:HG12	2.20	0.41
11:hL:3:VAL:N	11:hw:97:ASN:O	2.51	0.41
11:hM:49:ILE:HD11	17:q7:18:ARG:HH11	1.85	0.41
11:hM:140:LEU:HD12	11:hM:140:LEU:HA	1.82	0.41
11:hX:54:MET:HB3	17:q9:21:MET:HE3	2.02	0.41
11:hf:9:ALA:O	11:hg:35:GLN:NE2	2.46	0.41
11:hf:140:LEU:HD12	11:hf:140:LEU:HA	1.88	0.41
11:hg:48:LYS:HG3	11:hg:59:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hl:140:LEU:HA	11:hl:140:LEU:HD12	1.81	0.41
11:hm:8:ARG:HD2	11:hn:34:PHE:CE2	2.55	0.41
11:hp:21:PHE:CG	11:hq:142:LEU:HD23	2.56	0.41
11:hr:80:ASP:O	11:hr:84:LYS:HG3	2.20	0.41
12:iC:74:VAL:O	12:iC:84:LYS:HG2	2.20	0.41
12:iC:294:GLU:N	12:iC:294:GLU:OE1	2.53	0.41
12:iD:96:SER:OG	12:iD:104:ILE:HG23	2.21	0.41
12:iD:345:GLU:OE2	12:iD:354:HIS:NE2	2.50	0.41
12:iF:65:ASP:OD1	12:iF:65:ASP:N	2.54	0.41
15:m5:90:LYS:HE2	15:m5:90:LYS:HB2	1.90	0.41
16:o0:312:GLY:HA2	16:o0:314:CYS:N	2.36	0.41
17:q3:203:LEU:HB2	17:q3:212:THR:CG2	2.50	0.41
17:q3:221:ILE:HG12	17:q5:137:TYR:HB3	2.01	0.41
1:S2:12:GLU:HB3	1:S2:15:TYR:HB3	2.02	0.41
1:S2:117:THR:HG22	1:S2:120:LYS:NZ	2.35	0.41
1:S2:424:ARG:O	1:S3:504:ARG:NH2	2.53	0.41
1:S3:29:ILE:O	1:S3:30:THR:OG1	2.29	0.41
1:S3:220:SER:OG	1:S3:226:GLY:O	2.38	0.41
1:S4:220:SER:C	1:S8:230:LEU:HB2	2.46	0.41
1:S4:417:ASN:O	1:S4:424:ARG:NH1	2.54	0.41
1:S5:77:THR:HG22	1:S5:80:THR:HG23	2.03	0.41
1:S5:265:LEU:HB2	1:S7:257:THR:HA	2.03	0.41
1:S5:524:LYS:HE2	1:S5:526:LYS:O	2.21	0.41
1:S6:12:GLU:HB3	1:S6:15:TYR:HB3	2.01	0.41
1:S6:193:LEU:HD13	1:S8:206:GLU:HG3	2.03	0.41
1:S8:101:SER:C	1:S8:120:LYS:HZ2	2.26	0.41
1:SA:406:GLY:O	1:SA:410:THR:HG23	2.21	0.41
1:SO:2:SER:HA	4:WK:200:LEU:HD22	2.03	0.41
1:SO:39:ILE:CD1	1:SP:39:ILE:HD13	2.51	0.41
1:SP:99:ARG:HG2	1:SP:100:TYR:N	2.35	0.41
1:SP:457:LEU:HB3	1:SP:477:TRP:CH2	2.56	0.41
1:SP:482:TYR:CD2	1:SQ:452:GLY:HA2	2.56	0.41
1:Sw:233:GLN:HA	1:Sw:236:VAL:HG22	2.03	0.41
1:Sy:61:PRO:HB3	1:Sy:74:LYS:HD2	2.02	0.41
2:T4:42:PHE:O	2:T4:62:HIS:ND1	2.54	0.41
2:T4:67:TYR:CD2	2:T4:84:ARG:HB3	2.56	0.41
2:T5:70:HIS:HB2	2:T5:75:TYR:CE2	2.56	0.41
2:T5:188:ASP:HB3	2:T5:262:THR:HG21	2.03	0.41
2:T9:98:ILE:HG21	2:T9:107:VAL:HG21	2.02	0.41
2:TF:1:MET:HG2	2:TF:70:HIS:CE1	2.55	0.41
2:Tg:239:ARG:HE	2:Tg:242:ASN:ND2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Th:124:ILE:HB	2:Th:137:LEU:HB3	2.02	0.41
3:UL:142:ALA:N	3:UL:161:LEU:HD12	2.36	0.41
3:UM:40:ILE:HA	3:UM:43:LEU:HD12	2.03	0.41
3:Up:30:MET:O	3:Up:32:ARG:HG2	2.21	0.41
3:Uq:163:ASN:HD22	3:Uq:188:PRO:HA	1.85	0.41
3:Vp:82:VAL:HG23	3:Vp:187:LYS:HE3	2.03	0.41
3:Vp:85:THR:HG22	3:Vp:183:ILE:HD12	2.02	0.41
3:Vp:88:TRP:O	3:Vp:155:LYS:HA	2.19	0.41
3:Vq:143:ILE:C	3:Vq:161:LEU:HG	2.46	0.41
3:Vs:70:ILE:HG21	3:Vu:212:PHE:CE1	2.55	0.41
3:Vu:16:ASP:HA	3:Vu:53:GLU:HB3	2.02	0.41
3:Vu:85:THR:HG22	3:Vu:183:ILE:HD12	2.02	0.41
4:Wl:62:ALA:HA	4:Wl:68:TYR:CE2	2.53	0.41
4:Wl:264:ARG:HA	4:Wl:379:ASP:O	2.21	0.41
4:WJ:314:ASN:HB3	4:WJ:315:GLY:H	1.69	0.41
4:Wj:150:GLN:NE2	4:Wj:153:LYS:HE2	2.35	0.41
4:Wk:348:THR:OG1	4:Wk:350:GLU:OE2	2.38	0.41
4:Wl:49:TRP:CZ3	4:Wl:96:ARG:HD2	2.56	0.41
4:Wm:7:ILE:HD11	4:Wo:24:ILE:HG13	2.03	0.41
4:Wn:131:SER:HA	4:Wn:150:GLN:HB3	2.03	0.41
4:Wn:313:PHE:CE2	4:Wn:320:LEU:HD11	2.56	0.41
4:Wn:408:VAL:HG12	4:Wn:409:SER:H	1.83	0.41
4:Wo:80:ASN:OD1	4:Wo:112:ALA:HB2	2.20	0.41
4:XI:6:ASN:ND2	4:XI:17:ASP:OD2	2.54	0.41
4:XK:19:LEU:N	5:Yc:992:PRO:O	2.54	0.41
4:XK:192:ARG:HG3	4:XK:245:GLU:HB2	2.02	0.41
4:Xj:18:TYR:CE2	5:Yx:942:ILE:HD11	2.56	0.41
4:Xj:566:TYR:HE1	4:Xi:554:GLY:HA2	1.85	0.41
4:Xk:483:GLN:HB3	4:Xm:491:ASN:HA	2.03	0.41
4:Xm:357:SER:HB3	4:Xm:358:VAL:H	1.69	0.41
4:Xn:290:SER:HB2	4:Xn:370:HIS:HA	2.02	0.41
4:Xn:326:MET:HE2	4:Xn:327:PRO:HG3	2.01	0.41
4:Xo:320:LEU:HD23	4:Xo:358:VAL:HG23	2.03	0.41
5:YX:8:VAL:HG21	5:YX:82:VAL:HG13	2.02	0.41
5:YX:196:GLU:HB3	5:YX:520:SER:OG	2.21	0.41
5:YX:227:ASP:OD1	5:YX:228:ARG:HG2	2.20	0.41
5:YX:400:ASP:HA	5:YX:424:ARG:NH1	2.35	0.41
5:YY:451:LEU:HD12	5:YY:452:SER:HB2	2.03	0.41
5:YY:489:ALA:HB3	5:YY:506:MET:O	2.21	0.41
5:YY:909:THR:HG23	6:Za:331:LEU:HB2	2.01	0.41
5:YY:988:LYS:HB3	5:YY:989:LEU:H	1.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:348:ARG:H	5:Yc:348:ARG:HG2	1.57	0.41
5:Yc:481:ALA:HB2	5:Yc:507:LYS:NZ	2.36	0.41
5:Yc:545:ILE:C	5:Yc:546:GLU:HG3	2.45	0.41
5:Yc:686:LEU:HB3	8:fB:70:PHE:CE2	2.55	0.41
5:Yc:935:LYS:NZ	5:Yc:936:LEU:HD13	2.36	0.41
5:Yx:86:ALA:HB3	5:Yx:89:PHE:HD2	1.84	0.41
5:Yx:404:TYR:HA	5:Yx:415:ARG:HA	2.03	0.41
5:Yx:408:HIS:CE1	5:Yx:411:LYS:HE3	2.55	0.41
5:Yx:840:ARG:HG2	5:Yx:841:GLY:H	1.86	0.41
5:Yy:229:VAL:O	5:Yy:249:GLY:HA2	2.21	0.41
5:Yy:407:ASN:OD1	5:Yy:407:ASN:N	2.54	0.41
6:ZE:45:GLU:HG2	6:ZE:46:PRO:HD2	2.02	0.41
6:Za:44:SER:HA	6:Za:268:GLY:O	2.21	0.41
6:Za:96:GLY:HA2	6:Za:103:PRO:HB2	2.01	0.41
6:aE:181:GLU:HB2	6:aE:182:PRO:HD3	2.03	0.41
6:ac:249:PHE:HB2	6:ac:330:ILE:HB	2.02	0.41
7:b4:430:ARG:HH21	7:b4:541:ALA:HB1	1.84	0.41
7:b4:638:ILE:HG12	7:b9:623:PHE:HB3	2.02	0.41
7:b5:413:THR:OG1	7:b5:425:ASN:HB3	2.19	0.41
7:b6:35:TRP:O	7:b6:54:PHE:HA	2.20	0.41
7:b6:572:LEU:O	7:b6:573:PHE:C	2.64	0.41
7:b7:33:PHE:HD2	7:b7:82:ARG:HB2	1.86	0.41
7:b7:115:LYS:HD2	7:b7:115:LYS:HA	1.86	0.41
7:b7:467:TRP:CZ3	7:cB:199:GLU:HB2	2.56	0.41
7:b8:32:LYS:HD3	7:b8:64:TYR:CE1	2.56	0.41
7:b8:414:VAL:HG23	7:b8:422:ALA:HB1	2.02	0.41
7:bP:24:THR:HB	7:bP:483:ASN:HD21	1.86	0.41
7:bQ:430:ARG:NH2	7:bQ:541:ALA:HB1	2.36	0.41
7:bR:160:TYR:HA	7:bR:161:PRO:HA	1.92	0.41
7:bR:252:LEU:O	7:bR:260:THR:HA	2.21	0.41
7:bY:451:ASP:OD2	7:bY:470:LEU:HB3	2.20	0.41
7:bY:621:ASN:OD1	7:bY:621:ASN:N	2.53	0.41
7:cA:108:SER:OG	7:cA:137:ASP:OD2	2.39	0.41
7:cA:346:SER:O	7:cA:350:VAL:HG23	2.21	0.41
7:cA:575:LEU:HB3	7:cA:577:ASN:HD22	1.85	0.41
7:cB:644:ALA:HA	7:cK:557:PHE:HZ	1.85	0.41
7:cC:16:GLN:OE1	7:cC:460:LYS:HE2	2.21	0.41
7:cD:107:GLY:HA3	7:cD:110:TYR:CE2	2.56	0.41
7:cE:94:PRO:HB2	7:cE:219:ILE:HG13	2.03	0.41
7:cE:195:LEU:H	7:cE:195:LEU:HD23	1.85	0.41
7:cF:246:LYS:HB2	7:cF:250:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:398:ASP:O	7:cH:401:GLN:HG3	2.21	0.41
7:cI:464:VAL:HG12	7:cN:313:ASP:HB3	2.02	0.41
7:cI:572:LEU:HD12	7:cI:572:LEU:HA	1.57	0.41
7:cK:651:PHE:O	7:cK:654:LEU:HB2	2.20	0.41
7:cL:298:LYS:HB2	7:cL:298:LYS:NZ	2.36	0.41
7:cN:193:ILE:HG21	7:cN:223:VAL:HG11	2.03	0.41
7:cN:202:GLU:H	7:cN:202:GLU:HG3	1.54	0.41
7:cP:427:VAL:O	7:cP:431:THR:OG1	2.33	0.41
7:dS:15:VAL:HG21	15:m2:105:ILE:HG23	2.02	0.41
7:dU:7:GLY:O	7:dU:8:ILE:HB	2.20	0.41
7:dV:94:PRO:HD3	7:dV:222:VAL:O	2.20	0.41
7:dZ:633:ARG:HB3	15:m2:102:TYR:CD2	2.56	0.41
8:eU:606:ILE:HD13	8:eU:616:PHE:CE2	2.55	0.41
8:eW:213:SER:HB2	8:eW:215:VAL:HG12	2.01	0.41
8:f9:140:VAL:CG1	12:iD:372:VAL:HG22	2.50	0.41
8:fR:539:ARG:H	8:fR:556:GLY:HA3	1.84	0.41
8:fS:154:ILE:H	8:fS:154:ILE:HG13	1.64	0.41
8:fS:214:MET:HE2	8:fS:214:MET:HB3	1.72	0.41
8:fS:215:VAL:HG23	8:fS:245:VAL:HG13	2.03	0.41
8:fS:290:ASP:OD1	8:fS:291:THR:N	2.42	0.41
8:fU:25:THR:OG1	8:fU:28:GLU:HB2	2.19	0.41
8:fU:223:ILE:HD13	8:fU:223:ILE:HA	1.87	0.41
8:fU:523:VAL:HG12	8:fU:533:ASP:HA	2.01	0.41
8:fs:8:TYR:CZ	8:fs:19:GLU:HB2	2.56	0.41
9:gG:232:ASN:HB3	9:gG:233:PRO:HD3	2.02	0.41
9:gG:284:MET:HE2	9:gG:288:GLY:C	2.46	0.41
11:h1:72:THR:HB	11:h1:154:GLU:HG3	2.02	0.41
11:h2:6:VAL:HG21	11:hs:58:ILE:CD1	2.50	0.41
11:hK:73:VAL:HG12	11:hK:74:MET:O	2.20	0.41
11:hM:100:THR:HG22	11:hM:101:GLY:H	1.85	0.41
11:hj:112:ILE:HD11	11:hj:126:GLU:OE2	2.20	0.41
11:hp:91:ILE:HG22	11:hp:107:TYR:HB3	2.02	0.41
11:hu:83:GLN:HA	11:hu:86:VAL:HG22	2.02	0.41
12:iC:38:LEU:HD21	12:iC:72:ILE:HD13	2.02	0.41
12:iC:337:PHE:HB3	12:iC:357:MET:HB2	2.03	0.41
12:iD:6:ARG:HH21	12:iD:350:ASN:ND2	2.19	0.41
12:iD:10:PRO:O	12:iD:12:LEU:N	2.54	0.41
12:iD:179:ALA:HB2	12:iD:186:VAL:HG22	2.03	0.41
12:iF:357:MET:HE2	12:iF:357:MET:HB3	1.84	0.41
16:o0:224:ASN:HD21	16:o0:253:TRP:NE1	2.18	0.41
16:o0:246:ILE:HD13	16:o0:246:ILE:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o1:143:PHE:CE2	16:o1:197:TYR:HB2	2.55	0.41
16:pA:127:ILE:HG22	16:pA:225:ILE:HG12	2.02	0.41
16:pB:182:MET:HB3	16:pB:182:MET:HE2	1.87	0.41
17:q5:223:VAL:HG13	17:q8:133:ASN:HB3	2.02	0.41
17:q8:216:PHE:CE2	17:q8:248:MET:HG3	2.56	0.41
1:S1:290:GLN:HG2	1:S2:288:ILE:HD11	2.02	0.41
1:S1:475:LEU:HA	1:S2:470:GLY:O	2.20	0.41
1:S2:177:ALA:O	1:S3:177:ALA:HB1	2.21	0.41
1:S2:503:ASN:HB3	1:S2:507:LEU:HD23	2.02	0.41
1:S4:190:VAL:HG23	1:S6:188:GLN:HB3	2.03	0.41
1:S5:102:THR:HG23	1:S5:104:ASP:H	1.85	0.41
1:S6:12:GLU:HG3	1:S6:14:ARG:H	1.85	0.41
1:S6:216:MET:HG3	1:S6:217:ASN:N	2.36	0.41
1:S7:32:VAL:O	1:S7:36:ILE:HG12	2.20	0.41
1:S7:61:PRO:HD3	1:S7:74:LYS:HB3	2.02	0.41
1:S8:107:ILE:HD12	1:S8:107:ILE:HA	1.90	0.41
1:SA:422:LYS:NZ	1:Sw:498:SER:O	2.53	0.41
1:SO:339:ARG:NH2	1:SQ:527:GLU:OXT	2.49	0.41
1:SP:141:VAL:HG22	1:SQ:139:ASN:HB2	2.02	0.41
1:SQ:372:CYS:SG	1:SQ:525:VAL:HB	2.61	0.41
1:Sv:464:ARG:HA	1:Sz:480:ARG:NH1	2.34	0.41
1:Sv:469:VAL:HA	1:Sz:476:ASP:O	2.20	0.41
1:Sw:235:GLU:OE1	1:Sw:243:VAL:HG11	2.20	0.41
1:Sw:291:ARG:NH1	1:Sy:286:ASP:OD2	2.53	0.41
1:Sx:229:LYS:HB2	1:Sx:243:VAL:HG12	2.01	0.41
1:Sz:457:LEU:HD23	1:Sz:477:TRP:CZ2	2.56	0.41
2:T1:1:MET:HG2	2:T1:70:HIS:CE1	2.55	0.41
2:T2:24:LEU:HD11	2:T3:24:LEU:HD21	2.02	0.41
2:T4:152:SER:O	2:T4:158:SER:HA	2.21	0.41
2:T7:45:GLN:O	2:T7:48:MET:HG2	2.21	0.41
2:Te:23:ILE:HG13	2:Te:24:LEU:N	2.36	0.41
2:Te:213:LYS:HE3	2:Te:249:ILE:HG12	2.02	0.41
2:Th:247:ASP:OD2	2:Th:251:ASN:ND2	2.51	0.41
3:UL:15:ALA:HB2	3:UN:52:ILE:HD11	2.03	0.41
3:UN:163:ASN:ND2	3:UN:188:PRO:HA	2.36	0.41
3:Up:78:SER:HA	3:Up:79:PRO:HD3	1.94	0.41
3:Vp:87:TYR:CG	3:Vp:183:ILE:HD11	2.56	0.41
3:Vr:94:VAL:HG23	3:Vr:119:GLY:H	1.84	0.41
3:Vs:94:VAL:HA	3:Vs:174:TYR:O	2.19	0.41
4:WI:186:TYR:OH	4:WI:191:ILE:HA	2.21	0.41
4:WI:361:ASP:OD1	4:WI:362:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:428:ILE:HG21	4:WI:599:ILE:HD13	2.02	0.41
4:WI:596:TYR:HB3	4:WI:598:TRP:HE1	1.85	0.41
4:WJ:320:LEU:HD23	4:WJ:358:VAL:HG23	2.03	0.41
4:WJ:419:ASP:HB3	4:WJ:436:VAL:HB	2.01	0.41
4:WK:274:THR:HA	4:WK:282:VAL:HG11	2.02	0.41
4:Wl:304:ILE:HB	4:Wl:385:TRP:CD1	2.56	0.41
4:Wn:86:VAL:HG13	4:Wn:87:ASN:N	2.36	0.41
4:Wn:398:GLU:OE1	4:Wn:398:GLU:N	2.54	0.41
4:XJ:399:ILE:HD12	4:XJ:400:ILE:HG13	2.03	0.41
4:Xj:6:ASN:ND2	4:Xj:17:ASP:OD2	2.53	0.41
4:Xj:19:LEU:HG	5:Yx:999:THR:HB	2.03	0.41
4:Xj:533:PRO:HD2	4:Xn:532:LEU:HD11	2.02	0.41
4:Xk:102:TRP:HZ3	4:Xk:131:SER:HB2	1.86	0.41
4:Xk:180:VAL:HG22	4:Xk:181:PHE:H	1.86	0.41
4:Xl:263:ILE:HD11	4:Xl:295:ALA:HB1	2.03	0.41
4:Xl:300:PRO:HG3	4:Xn:204:ASP:HB3	2.01	0.41
4:Xm:115:ASP:OD2	4:Xm:137:TYR:OH	2.32	0.41
4:Xm:200:LEU:HA	4:Xm:200:LEU:HD12	1.79	0.41
4:Xo:342:CYS:HB3	4:Xo:349:TRP:CH2	2.56	0.41
4:Xo:451:ASP:HA	4:Xo:600:ARG:HH12	1.85	0.41
5:YC:239:TYR:CD2	5:YC:312:THR:HA	2.56	0.41
5:YC:574:LYS:HE3	5:YC:576:THR:HB	2.03	0.41
5:YX:247:VAL:HG12	5:YX:248:LEU:H	1.85	0.41
5:YX:285:LEU:HD23	5:YX:287:LEU:HD23	2.03	0.41
5:YX:371:ILE:CG2	5:YX:496:SER:HB2	2.50	0.41
5:YX:710:LYS:HG2	8:fr:14:ALA:HB1	2.02	0.41
5:YX:991:SER:O	5:YX:993:LEU:N	2.54	0.41
5:YY:403:ILE:CG2	5:YY:417:PHE:HB3	2.51	0.41
5:YY:700:ALA:HB3	5:YY:725:ARG:HH12	1.86	0.41
5:YY:908:HIS:HE1	5:YY:1029:LYS:HD3	1.84	0.41
5:Yc:788:THR:HG23	5:Yc:790:THR:H	1.86	0.41
5:Yc:929:TYR:HD2	5:Yc:961:VAL:HB	1.83	0.41
5:Yy:339:ASP:O	5:Yy:342:SER:HB3	2.20	0.41
5:Yy:470:ALA:HA	6:aD:57:ALA:H	1.86	0.41
5:Yy:856:ASN:CB	8:fW:495:PRO:HB3	2.49	0.41
6:ZD:151:ASP:O	6:ZD:155:LYS:HG3	2.20	0.41
6:ZZ:267:LYS:HB3	6:ZZ:270:ARG:HH22	1.85	0.41
6:Zc:103:PRO:HG2	6:Zc:104:TYR:CD2	2.56	0.41
6:Zc:249:PHE:HB2	6:Zc:330:ILE:HB	2.02	0.41
6:aD:55:GLY:N	6:aE:5:SER:O	2.38	0.41
6:aE:19:GLU:HG3	6:aE:23:ASN:HD21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b0:47:GLU:OE1	7:b0:461:TYR:OH	2.31	0.41
7:b0:331:PRO:HB2	7:b0:334:PHE:HB2	2.03	0.41
7:b3:157:VAL:HG23	7:b3:159:GLU:H	1.84	0.41
7:b3:302:LYS:HD3	7:b3:302:LYS:HA	1.87	0.41
7:b3:451:ASP:OD2	7:b3:470:LEU:HB3	2.20	0.41
7:b4:383:LEU:HD22	7:b4:439:ASN:HB3	2.02	0.41
7:b7:99:ILE:HD12	7:b7:150:ILE:HG21	2.02	0.41
7:b7:383:LEU:HD11	7:b7:436:TYR:CE2	2.56	0.41
7:b8:654:LEU:HD23	7:b8:654:LEU:HA	1.68	0.41
7:b9:446:THR:HG23	7:b9:542:THR:HG21	2.02	0.41
7:bN:299:ARG:H	7:bN:299:ARG:HG2	1.54	0.41
7:bN:630:GLN:NE2	7:cL:647:THR:O	2.54	0.41
7:bO:365:ARG:HA	7:bO:400:ARG:NH2	2.36	0.41
7:bO:519:GLN:HE21	7:bP:4:LEU:HD13	1.85	0.41
7:bQ:119:LYS:HG2	7:bQ:168:THR:O	2.21	0.41
7:bQ:229:GLU:H	7:bQ:229:GLU:HG2	1.72	0.41
7:bR:406:LEU:HD13	7:bR:475:ALA:HB2	2.03	0.41
7:cA:222:VAL:HG11	7:cA:236:ILE:HG12	2.02	0.41
7:cB:315:PHE:HB3	7:cB:324:PHE:CD1	2.55	0.41
7:cG:394:VAL:HG11	7:cG:443:ILE:HD12	2.01	0.41
7:cG:455:LYS:HD2	7:cG:502:VAL:HG22	2.03	0.41
7:cH:456:TYR:HB3	7:cH:503:ILE:HG23	2.03	0.41
7:cL:380:GLY:H	7:cL:411:ARG:HD2	1.85	0.41
7:cL:426:LEU:HD23	7:cL:426:LEU:HA	1.89	0.41
7:cL:560:LEU:HD21	7:cL:601:ILE:HD11	2.03	0.41
7:cN:160:TYR:HA	7:cN:161:PRO:HA	1.84	0.41
7:cO:215:LYS:HB2	7:cO:329:ASN:ND2	2.36	0.41
7:cO:345:SER:OG	7:cO:346:SER:N	2.51	0.41
7:cP:505:LEU:HD21	7:cP:525:VAL:HG12	2.03	0.41
7:dU:413:THR:OG1	7:dU:425:ASN:HB3	2.21	0.41
7:dU:606:VAL:HG12	7:dU:627:PHE:CD2	2.55	0.41
7:dV:50:LEU:HG	7:dV:65:PHE:CE2	2.56	0.41
8:eW:246:ASN:OD1	8:eW:246:ASN:N	2.51	0.41
8:eW:489:GLN:HA	8:eW:620:THR:HG22	2.03	0.41
8:f9:572:TYR:CE2	8:f9:574:GLY:HA3	2.56	0.41
8:fB:507:ASP:OD1	8:fB:545:ARG:NH1	2.52	0.41
8:fB:528:THR:HG23	8:fB:529:GLY:H	1.86	0.41
8:fB:537:ASP:OD1	8:fB:537:ASP:N	2.44	0.41
8:fR:419:ASN:OD1	8:fR:652:THR:OG1	2.38	0.41
8:fS:536:TYR:OH	8:fS:562:ASP:OD2	2.30	0.41
8:fr:277:GLY:C	8:fr:279:ASP:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:gE:123:ARG:NH2	9:gH:69:ILE:HD11	2.35	0.41
9:gG:193:ASP:OD2	9:gG:199:THR:OG1	2.39	0.41
9:gG:200:ILE:HG12	9:gG:201:GLY:N	2.36	0.41
9:gH:187:ARG:HD3	9:gH:187:ARG:HA	1.92	0.41
11:h2:23:VAL:HG22	11:h2:36:CYS:SG	2.61	0.41
11:hM:88:TRP:CE2	11:hM:134:PRO:HD3	2.56	0.41
11:he:80:ASP:OD2	11:he:84:LYS:NZ	2.52	0.41
11:hg:22:GLN:HB2	11:hg:116:TYR:HE1	1.85	0.41
11:hl:56:ARG:NH2	11:hn:96:GLY:O	2.49	0.41
11:hm:41:LEU:O	11:hm:42:PRO:C	2.64	0.41
11:hn:104:PRO:O	11:hn:108:LYS:HB2	2.20	0.41
11:ho:142:LEU:HD23	11:hv:21:PHE:CG	2.55	0.41
14:k3:127:ASP:O	14:k3:129:ASN:N	2.53	0.41
15:m6:90:LYS:HB2	15:m6:90:LYS:HE2	1.71	0.41
16:o0:214:ARG:O	16:o0:215:SER:OG	2.32	0.41
16:o0:243:ALA:O	16:o0:247:LYS:HG2	2.21	0.41
16:o1:12:ILE:H	16:o1:12:ILE:HG12	1.66	0.41
16:o6:121:LYS:HB3	16:o6:121:LYS:HE3	1.79	0.41
17:q3:104:PHE:HZ	17:q5:213:ALA:HB3	1.86	0.41
17:q3:166:SER:OG	17:q5:15:ASP:O	2.39	0.41
17:q7:160:ILE:HB	17:q7:243:PHE:HE2	1.86	0.41
17:q8:233:ASP:OD1	17:q8:233:ASP:N	2.52	0.41
18:rf:18:UNK:C	18:rf:20:UNK:N	2.83	0.41
1:S0:112:ASN:HA	1:S7:117:THR:OG1	2.20	0.41
1:S0:132:ARG:NH1	1:S0:139:ASN:O	2.54	0.41
1:S0:145:SER:HB3	1:S0:158:THR:HG23	2.03	0.41
1:S0:145:SER:HB2	1:S0:149:GLN:HB3	2.03	0.41
1:S0:229:LYS:HB3	1:S5:225:LYS:HG2	2.02	0.41
1:S0:264:LYS:HG2	1:S5:259:MET:C	2.46	0.41
1:S0:362:CYS:HB3	1:S0:395:MET:HG3	2.02	0.41
1:S0:489:GLU:CD	1:S0:502:LEU:H	2.28	0.41
1:S1:100:TYR:CZ	1:S2:90:ALA:HB3	2.56	0.41
1:S1:278:SER:HA	1:S3:265:LEU:HD11	2.03	0.41
1:S1:351:ALA:HA	1:S2:382:ARG:HH12	1.85	0.41
1:S2:117:THR:OG1	1:S3:112:ASN:HA	2.21	0.41
1:S2:212:PRO:HA	1:S2:215:PHE:HB3	2.03	0.41
1:S2:213:TYR:O	1:S2:217:ASN:ND2	2.54	0.41
1:S2:399:PHE:HE2	1:S3:399:PHE:HD2	1.68	0.41
1:S2:399:PHE:CE1	1:S3:401:ARG:HB3	2.56	0.41
1:S2:477:TRP:CG	4:Xl:412:PRO:HD3	2.56	0.41
1:S3:181:THR:O	1:S3:190:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S3:253:ARG:NE	1:S3:260:ARG:O	2.54	0.41
1:S4:87:TYR:HA	1:S5:412:PRO:CG	2.51	0.41
1:S4:263:VAL:HG11	1:S8:265:LEU:HD21	2.03	0.41
1:S4:315:ILE:HA	1:S8:308:ILE:HB	2.02	0.41
1:S4:408:HIS:CD2	1:S8:437:VAL:HG21	2.55	0.41
1:S4:476:ASP:CG	1:S4:479:ASN:HD21	2.27	0.41
1:S5:29:ILE:O	1:S5:30:THR:OG1	2.29	0.41
1:S5:475:LEU:HD22	1:S7:469:VAL:HG22	2.03	0.41
1:S6:144:ILE:HG21	1:S8:156:ASP:HB3	2.03	0.41
1:S6:197:ALA:O	1:S6:201:GLN:HG3	2.21	0.41
1:S7:107:ILE:HD11	1:S7:128:ALA:HB2	2.02	0.41
1:S7:199:VAL:HG21	1:S7:214:THR:HB	2.03	0.41
1:S7:324:GLY:HA3	1:S7:331:ILE:HD12	2.03	0.41
1:S7:489:GLU:CD	1:S7:502:LEU:H	2.29	0.41
1:S8:160:MET:HE3	1:S8:160:MET:HB2	1.90	0.41
1:S8:253:ARG:NE	1:S8:260:ARG:O	2.54	0.41
1:SA:5:THR:HG23	4:Wm:196:ARG:HE	1.85	0.41
1:SA:99:ARG:O	1:SA:114:SER:HA	2.21	0.41
1:SA:308:ILE:HD12	1:Sw:315:ILE:HG12	2.03	0.41
1:SA:425:LEU:O	1:Sy:440:GLN:NE2	2.54	0.41
1:SA:471:THR:HA	1:Sy:474:GLY:O	2.21	0.41
1:SO:79:ALA:HB2	1:SP:70:THR:O	2.21	0.41
1:SO:147:LEU:HB2	1:SO:148:PRO:HD3	2.03	0.41
1:SO:301:ARG:HB3	1:SQ:295:ILE:HG13	2.03	0.41
1:SO:315:ILE:HG12	1:SQ:308:ILE:HD12	2.03	0.41
1:SO:349:TRP:CD1	1:SO:351:ALA:H	2.39	0.41
1:SP:5:THR:HG21	4:WJ:200:LEU:HD22	2.02	0.41
1:SP:386:ASN:OD1	1:SP:389:ASN:N	2.52	0.41
1:SP:457:LEU:HB3	1:SP:477:TRP:HH2	1.86	0.41
1:SQ:63:GLU:OE1	1:SQ:80:THR:HA	2.21	0.41
1:SQ:302:ILE:HD12	1:SQ:306:PHE:HB2	2.03	0.41
1:Sv:40:SER:O	1:Sx:24:ASN:ND2	2.54	0.41
1:Sv:118:PRO:HA	1:Sv:121:PHE:HB3	2.03	0.41
1:Sv:163:LEU:HB2	1:Sx:153:GLY:O	2.20	0.41
1:Sv:181:THR:O	1:Sv:190:VAL:HG22	2.21	0.41
1:Sv:286:ASP:OD1	1:Sv:286:ASP:N	2.54	0.41
1:Sv:371:ASP:OD1	1:Sv:526:LYS:NZ	2.45	0.41
1:Sw:60:ILE:O	1:Sy:52:SER:HA	2.20	0.41
1:Sw:513:ARG:HE	1:Sy:438:GLN:HB3	1.86	0.41
1:Sx:5:THR:HG21	4:Wl:200:LEU:HD13	2.03	0.41
1:Sx:36:ILE:O	1:Sx:40:SER:OG	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Sy:383:TYR:CE2	1:Sy:393:PRO:HG3	2.56	0.41
1:Sz:32:VAL:O	1:Sz:36:ILE:HG12	2.20	0.41
1:Sz:77:THR:HG23	1:Sz:79:ALA:N	2.36	0.41
2:T1:10:ILE:N	2:T3:32:ASN:OD1	2.48	0.41
2:T1:14:GLU:HB3	2:T1:17:ASN:OD1	2.20	0.41
2:T1:128:ASP:HB2	2:T1:158:SER:HB3	2.03	0.41
2:T3:194:ARG:HG3	2:T3:195:THR:HG23	2.03	0.41
2:T4:7:LYS:HD3	2:T8:39:TYR:CG	2.56	0.41
2:T4:14:GLU:HB3	2:T4:17:ASN:OD1	2.21	0.41
2:T5:213:LYS:HA	2:T5:241:GLY:HA3	2.02	0.41
2:T6:168:PHE:CZ	2:T8:149:ARG:HB3	2.56	0.41
2:T6:210:ASP:OD1	2:T6:211:GLY:N	2.54	0.41
2:T7:193:HIS:HD2	2:T7:260:TYR:HE1	1.68	0.41
2:T7:207:GLN:HG3	2:T7:214:ILE:HB	2.02	0.41
2:TF:53:GLY:HA3	2:TG:7:LYS:HE2	2.03	0.41
2:Td:194:ARG:HH21	2:Td:259:ASN:HA	1.86	0.41
2:Tg:111:ASN:O	2:Tg:143:TYR:HA	2.20	0.41
2:Th:45:GLN:H	2:Th:68:GLN:HE22	1.68	0.41
2:Ti:47:LYS:HD2	2:Ti:59:GLN:HG2	2.03	0.41
3:UL:2:SER:O	3:UL:6:ASN:ND2	2.54	0.41
3:UM:36:GLY:HA2	3:UM:55:ALA:N	2.35	0.41
3:UN:9:GLY:O	3:UN:11:ILE:HG13	2.21	0.41
3:UN:37:SER:HA	3:UN:50:PRO:HB3	2.03	0.41
3:Up:90:PHE:O	3:Up:154:SER:HB2	2.21	0.41
3:Uq:15:ALA:HB2	3:Uu:52:ILE:HD11	2.03	0.41
3:Ur:120:MET:HB3	3:Ur:124:GLU:HB2	2.02	0.41
3:Us:13:ARG:HG2	3:Us:14:LEU:H	1.84	0.41
3:VL:7:LYS:HB3	4:XJ:318:GLN:NE2	2.36	0.41
3:VM:104:PRO:HA	3:VM:117:THR:HA	2.02	0.41
3:VN:90:PHE:CE1	3:VN:178:ILE:HG23	2.56	0.41
3:VN:130:ARG:HE	3:VN:148:ASP:CG	2.29	0.41
3:Vq:28:ASP:OD2	3:Vs:64:ILE:HG13	2.21	0.41
3:Vs:90:PHE:CE1	3:Vs:178:ILE:HG23	2.56	0.41
3:Vs:198:ALA:HA	3:Vs:212:PHE:O	2.21	0.41
3:Vt:70:ILE:HG23	3:Vt:214:HIS:HB3	2.03	0.41
3:Vt:170:THR:HG23	3:Vt:178:ILE:O	2.20	0.41
3:Vu:90:PHE:O	3:Vu:154:SER:HB2	2.21	0.41
3:Vu:172:SER:HA	3:Vu:177:THR:HA	2.02	0.41
4:WI:177:PHE:HD2	4:WI:230:ILE:HD11	1.86	0.41
4:WJ:18:TYR:HE1	5:YC:918:ASN:HD21	1.69	0.41
4:WJ:89:TYR:CD1	4:WJ:139:ALA:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WJ:89:TYR:CE1	4:WJ:139:ALA:HA	2.56	0.41
4:WJ:172:GLN:HG3	4:WJ:237:ASN:HA	2.02	0.41
4:WJ:279:SER:OG	4:WJ:280:ILE:HG13	2.21	0.41
4:WK:188:VAL:HG23	4:WK:225:LEU:HD22	2.03	0.41
4:WK:331:CYS:O	4:WK:349:TRP:NE1	2.50	0.41
4:WK:332:VAL:HG13	4:WK:339:GLU:O	2.21	0.41
4:WK:358:VAL:HG13	4:WK:369:LEU:HD13	2.02	0.41
4:WK:393:LEU:HG	4:WK:394:LEU:H	1.86	0.41
4:Wj:29:ASN:O	4:Wj:33:LEU:HG	2.21	0.41
4:Wj:265:LEU:HB3	4:Wj:281:TYR:HB3	2.02	0.41
4:Wk:18:TYR:CD1	5:YY:997:SER:HA	2.56	0.41
4:Wk:18:TYR:CE1	4:Wk:20:ARG:HB3	2.56	0.41
4:Wk:201:TYR:HB3	4:Wm:164:ARG:NH2	2.36	0.41
4:Wk:274:THR:HA	4:Wk:282:VAL:HG11	2.01	0.41
4:Wk:311:VAL:HG13	4:Wk:320:LEU:HB2	2.02	0.41
4:Wk:441:ARG:NH2	4:Wk:451:ASP:HB3	2.36	0.41
4:Wl:7:ILE:H	4:Wl:7:ILE:HG13	1.72	0.41
4:Wl:261:ARG:HB3	4:Wl:296:PHE:CD1	2.55	0.41
4:Wm:18:TYR:HB3	4:Wm:21:LYS:H	1.86	0.41
4:Wm:215:PRO:HB3	4:Wm:229:ASN:HB3	2.03	0.41
4:Wm:275:SER:HA	4:Wm:280:ILE:HB	2.03	0.41
4:Wm:590:GLN:NE2	4:Wo:486:VAL:HG11	2.36	0.41
4:Wn:89:TYR:CE1	4:Wn:139:ALA:HA	2.56	0.41
4:Wn:193:VAL:HG23	4:Wn:242:VAL:HG13	2.03	0.41
4:Wn:263:ILE:HD12	4:Wn:263:ILE:HA	1.95	0.41
4:Wn:274:THR:HA	4:Wn:282:VAL:HG11	2.01	0.41
4:Wn:404:ASP:OD1	4:Wn:404:ASP:N	2.53	0.41
4:Wo:321:ALA:O	4:Wo:324:VAL:HG12	2.21	0.41
4:XI:29:ASN:O	4:XI:33:LEU:HG	2.21	0.41
4:XI:200:LEU:HA	4:XI:200:LEU:HD12	1.89	0.41
4:XI:255:ARG:NH2	4:XK:390:LEU:HB2	2.35	0.41
4:XI:399:ILE:HD12	4:XK:399:ILE:HG12	2.03	0.41
4:XI:429:GLY:HA2	4:XK:464:VAL:HG12	2.03	0.41
4:XJ:36:GLU:OE1	4:XJ:50:LYS:NZ	2.54	0.41
4:XJ:54:ALA:HB2	4:XJ:71:ASN:O	2.21	0.41
4:XJ:469:PRO:HD3	4:XJ:598:TRP:CE2	2.56	0.41
4:XK:89:TYR:O	4:XK:91:LYS:HG2	2.20	0.41
4:XK:138:CYS:HB2	4:XK:144:GLU:OE1	2.21	0.41
4:XK:215:PRO:CG	4:XK:226:ASP:H	2.34	0.41
4:Xj:29:ASN:O	4:Xj:33:LEU:HG	2.20	0.41
4:Xj:30:PHE:HD1	4:Xj:30:PHE:HA	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Xj:160:SER:OG	4:Xj:248:MET:O	2.22	0.41
4:Xj:192:ARG:HG3	4:Xj:247:PHE:HE1	1.85	0.41
4:Xj:449:ILE:O	4:Xj:453:ILE:HG12	2.21	0.41
4:Xk:49:TRP:O	4:Xo:90:ASN:ND2	2.54	0.41
4:Xk:89:TYR:HA	4:Xk:137:TYR:HB3	2.03	0.41
4:Xk:290:SER:HB2	4:Xk:370:HIS:HA	2.02	0.41
4:Xk:402:GLU:HG2	4:Xo:396:LYS:HE3	2.03	0.41
4:Xk:554:GLY:O	4:Xo:555:CYS:HB2	2.21	0.41
4:Xl:1:MET:HG3	4:Xl:32:GLU:OE2	2.21	0.41
4:Xl:162:VAL:HB	4:Xl:247:PHE:CD1	2.55	0.41
4:Xl:213:GLY:HA2	4:Xl:221:GLU:HB2	2.03	0.41
4:Xl:428:ILE:HD11	4:Xl:479:LYS:HD3	2.02	0.41
4:Xm:195:HIS:ND1	4:Xm:199:GLU:OE1	2.53	0.41
4:Xm:261:ARG:HD2	4:Xm:297:GLY:H	1.85	0.41
4:Xm:414:VAL:HG23	4:Xm:441:ARG:HB2	2.01	0.41
4:Xm:460:TYR:CE2	4:Xm:462:ASN:HB2	2.56	0.41
4:Xm:462:ASN:OD1	4:Xm:465:ASN:N	2.46	0.41
4:Xn:172:GLN:HG2	4:Xn:173:GLY:H	1.85	0.41
4:Xn:425:PHE:O	4:Xn:479:LYS:NZ	2.48	0.41
4:Xo:335:ASP:HB2	4:Xo:350:GLU:OE1	2.20	0.41
4:Xo:461:GLU:OE2	4:Xo:597:ARG:NH2	2.39	0.41
5:YC:38:ILE:HG13	5:YC:57:ILE:HB	2.02	0.41
5:YC:154:SER:O	5:YC:154:SER:OG	2.31	0.41
5:YC:379:ILE:H	5:YC:379:ILE:HG13	1.80	0.41
5:YC:412:THR:HG23	5:YC:413:TRP:H	1.85	0.41
5:YC:506:MET:C	5:YC:507:LYS:HD3	2.45	0.41
5:YC:677:ASP:H	5:YC:681:THR:HG21	1.86	0.41
5:YC:798:ILE:HG12	5:YC:811:VAL:HG12	2.02	0.41
5:YC:906:LEU:HD13	6:ZD:334:PHE:HD1	1.86	0.41
5:YC:923:SER:OG	5:YC:986:ARG:HG2	2.21	0.41
5:YC:924:GLY:C	5:YC:926:PRO:HD3	2.46	0.41
5:YX:59:LEU:HD13	5:YX:67:PHE:CE2	2.56	0.41
5:YX:169:GLY:HA2	5:YX:541:TYR:HE1	1.85	0.41
5:YX:193:MET:HE2	5:YX:202:PHE:HE2	1.86	0.41
5:YX:646:ARG:H	5:YX:646:ARG:HG2	1.53	0.41
5:YX:761:GLU:HB2	5:YX:862:TYR:CG	2.56	0.41
5:YY:149:GLU:H	5:YY:149:GLU:CD	2.26	0.41
5:YY:238:TYR:HE2	5:YY:517:SER:HB3	1.86	0.41
5:YY:301:PRO:HB2	5:YY:305:TYR:HA	2.03	0.41
5:YY:671:TYR:OH	8:fs:63:ASN:O	2.37	0.41
5:YY:848:LEU:HD23	5:YY:849:GLN:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YY:993:LEU:H	5:YY:993:LEU:HD23	1.86	0.41
5:YY:1012:LEU:HD22	6:Zc:6:VAL:HG11	2.03	0.41
5:Yc:122:PHE:HE1	5:Yc:135:VAL:HG21	1.86	0.41
5:Yc:364:VAL:HG11	5:Yc:390:PRO:HB3	2.01	0.41
5:Yc:486:HIS:HB2	6:ZD:305:HIS:ND1	2.36	0.41
5:Yc:668:CYS:O	5:Yc:672:ILE:HG12	2.21	0.41
5:Yc:761:GLU:HB2	5:Yc:862:TYR:CG	2.56	0.41
5:Yc:807:LEU:HD23	5:Yc:807:LEU:H	1.84	0.41
5:Yx:192:LEU:HD12	5:Yx:192:LEU:HA	1.80	0.41
5:Yx:247:VAL:HG12	5:Yx:248:LEU:H	1.86	0.41
5:Yx:324:ASP:HB2	5:Yx:357:ILE:HG22	2.03	0.41
5:Yx:408:HIS:O	5:Yx:410:GLU:N	2.54	0.41
5:Yx:750:VAL:HG12	8:fU:257:ILE:CD1	2.51	0.41
5:Yx:899:PHE:CE1	6:ab:331:LEU:HD12	2.56	0.41
5:Yy:146:LEU:HD23	5:Yy:147:MET:H	1.85	0.41
5:Yy:443:LEU:HD23	5:Yy:501:PHE:HE2	1.86	0.41
5:Yy:799:GLU:HB3	5:Yy:810:THR:HG23	2.02	0.41
5:Yy:900:ILE:HG21	6:ac:311:TYR:HE2	1.86	0.41
6:aE:114:CYS:HA	6:aE:120:ASN:ND2	2.34	0.41
6:aE:140:GLY:HA2	6:aE:163:SER:OG	2.21	0.41
6:aE:263:LEU:H	6:aE:263:LEU:HG	1.57	0.41
6:aZ:182:PRO:HD2	6:aZ:186:TYR:O	2.21	0.41
6:ab:321:ALA:O	6:ab:324:GLN:HB3	2.21	0.41
6:ac:62:THR:O	6:ac:67:GLY:HA3	2.21	0.41
7:b0:110:TYR:H	7:b0:138:GLY:CA	2.33	0.41
7:b0:355:LEU:HD23	7:b0:355:LEU:HA	1.93	0.41
7:b4:33:PHE:HA	7:b4:61:THR:HG23	2.02	0.41
7:b4:574:GLU:HG2	7:b4:575:LEU:N	2.35	0.41
7:b5:502:VAL:HG11	7:b5:505:LEU:HD13	2.02	0.41
7:b7:281:ILE:HG13	7:b7:295:LEU:HD12	2.02	0.41
7:b8:366:GLU:OE1	7:b8:367:SER:N	2.54	0.41
7:b8:538:ASP:O	7:b8:550:ARG:HA	2.20	0.41
7:b8:572:LEU:O	7:b8:573:PHE:C	2.64	0.41
7:b9:494:TYR:HE2	7:b9:528:THR:HG21	1.86	0.41
7:b9:577:ASN:H	7:b9:577:ASN:ND2	2.19	0.41
7:bN:24:THR:H	7:bN:483:ASN:CG	2.29	0.41
7:bN:28:ALA:HB2	7:bN:370:VAL:HG21	2.03	0.41
7:bN:135:ASP:O	7:bN:137:ASP:N	2.54	0.41
7:bO:31:GLY:HA3	7:bO:64:TYR:CD2	2.56	0.41
7:bO:457:GLN:HG2	7:bO:458:TYR:H	1.85	0.41
7:bP:299:ARG:H	7:bP:299:ARG:HG2	1.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:bP:592:LEU:HD12	7:bP:592:LEU:HA	1.98	0.41
7:bQ:39:PHE:HB3	7:bQ:361:PHE:CE1	2.56	0.41
7:bQ:160:TYR:CE2	7:bQ:161:PRO:HB3	2.56	0.41
7:bQ:225:LEU:HD23	7:bQ:226:TYR:CZ	2.56	0.41
7:bR:403:CYS:O	7:bR:558:ASN:ND2	2.53	0.41
7:bR:470:LEU:HD12	7:bR:470:LEU:HA	1.92	0.41
7:bY:90:LYS:HD3	7:bY:90:LYS:HA	1.92	0.41
7:cA:470:LEU:HD12	7:cA:470:LEU:HA	1.93	0.41
7:cB:47:GLU:OE1	7:cB:461:TYR:OH	2.39	0.41
7:cB:110:TYR:CD1	7:cB:177:GLY:HA3	2.56	0.41
7:cB:591:TYR:HD2	7:cB:592:LEU:HD12	1.86	0.41
7:cC:557:PHE:CZ	7:cC:629:ILE:HD11	2.56	0.41
7:cD:31:GLY:HA3	7:cD:64:TYR:CD1	2.56	0.41
7:cD:215:LYS:HB2	7:cD:329:ASN:HD22	1.85	0.41
7:cF:29:LEU:O	7:cF:80:VAL:HA	2.20	0.41
7:cF:572:LEU:O	7:cF:573:PHE:C	2.63	0.41
7:cF:653:GLU:H	7:cF:653:GLU:HG2	1.71	0.41
7:cG:101:TYR:CG	7:cG:143:ILE:HD11	2.56	0.41
7:cI:441:PHE:CZ	7:cI:443:ILE:HD11	2.56	0.41
7:cJ:572:LEU:HA	7:cJ:572:LEU:HD12	1.73	0.41
7:cK:296:SER:O	7:cK:311:ILE:HG13	2.21	0.41
7:cK:384:GLU:HG2	7:cK:439:ASN:OD1	2.20	0.41
7:cL:351:THR:HG23	7:cL:354:ASP:H	1.86	0.41
7:cM:366:GLU:OE1	7:cM:367:SER:N	2.54	0.41
7:cM:490:SER:O	7:cM:496:ARG:NH1	2.54	0.41
7:cN:161:PRO:O	7:cN:186:LYS:HB2	2.21	0.41
7:cN:572:LEU:O	7:cN:573:PHE:C	2.64	0.41
7:cN:651:PHE:HD1	7:cN:651:PHE:HA	1.79	0.41
7:cO:162:THR:O	7:cO:186:LYS:HB3	2.21	0.41
7:cP:57:PRO:HG3	7:cP:65:PHE:CD1	2.55	0.41
7:cP:110:TYR:CE1	7:cP:177:GLY:HA3	2.56	0.41
7:dS:8:ILE:HG23	7:dZ:636:ASN:O	2.21	0.41
7:dS:640:LEU:HD11	7:dT:10:LEU:HD21	2.03	0.41
7:dS:643:VAL:HG23	15:nT:109:ARG:HA	2.02	0.41
7:dT:373:PHE:HB2	7:dT:405:VAL:HG22	2.03	0.41
7:dU:125:ILE:HD12	7:dU:153:LYS:HG2	2.02	0.41
7:dU:586:THR:HG21	17:q5:27:ALA:HB1	2.02	0.41
7:dV:186:LYS:O	7:dV:187:ILE:C	2.64	0.41
7:dV:271:TYR:CE2	7:dV:304:ILE:HG13	2.55	0.41
7:dV:430:ARG:HD3	7:dV:430:ARG:O	2.20	0.41
8:eB:194:ARG:NH2	8:eB:228:GLU:OE1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:eB:220:THR:HG22	8:eB:241:GLY:O	2.21	0.41
8:eB:499:ILE:HD11	8:eB:604:TRP:CZ3	2.56	0.41
8:eB:545:ARG:HG2	8:eB:546:ASP:O	2.20	0.41
8:eB:545:ARG:CG	8:eB:549:GLY:HA2	2.51	0.41
8:eB:642:PHE:CZ	8:eB:651:LEU:HD22	2.56	0.41
8:eU:219:SER:OG	8:eU:256:TYR:O	2.25	0.41
8:eU:341:THR:OG1	8:eU:344:ASP:HB2	2.21	0.41
8:eU:494:THR:HG21	8:eU:602:ILE:O	2.20	0.41
8:eU:572:TYR:HB2	8:eU:591:VAL:HG23	2.02	0.41
8:eW:447:TYR:HB2	8:eW:467:TYR:CD2	2.55	0.41
8:eW:642:PHE:CZ	8:eW:651:LEU:HD22	2.56	0.41
8:f9:123:ILE:HD12	8:f9:295:ILE:HD11	2.03	0.41
8:f9:240:GLU:HG3	8:f9:256:TYR:HB2	2.01	0.41
8:f9:339:CYS:HA	8:f9:344:ASP:CG	2.46	0.41
8:fA:448:TYR:CD2	8:fA:642:PHE:HB2	2.56	0.41
8:fA:642:PHE:CZ	8:fA:644:ASN:HB2	2.56	0.41
8:fA:658:ILE:HD13	8:fA:658:ILE:HA	1.93	0.41
8:fB:156:ASP:OD1	8:fB:156:ASP:N	2.53	0.41
8:fB:649:GLN:CD	8:fB:649:GLN:H	2.29	0.41
8:fR:103:LYS:H	8:fR:103:LYS:HG2	1.54	0.41
8:fR:113:THR:O	8:fR:298:ILE:HG12	2.21	0.41
8:fR:423:THR:OG1	8:fR:476:ILE:HB	2.21	0.41
8:fR:522:LYS:HA	8:fR:533:ASP:HA	2.03	0.41
8:fS:338:ARG:HA	8:fS:399:TYR:HB3	2.02	0.41
8:fW:45:ASP:C	8:fW:47:ASP:N	2.79	0.41
8:fW:378:PRO:C	8:fW:380:SER:H	2.29	0.41
8:fW:447:TYR:HB2	8:fW:467:TYR:CG	2.55	0.41
8:fW:523:VAL:HG12	8:fW:533:ASP:HA	2.03	0.41
8:fW:592:ILE:HG22	8:fW:605:ASN:H	1.86	0.41
8:fW:643:GLU:HG2	8:fW:646:LEU:HD22	2.02	0.41
8:fr:461:LYS:O	8:fr:465:LEU:HG	2.20	0.41
8:fs:393:LYS:HG3	8:fs:406:PRO:HG2	2.01	0.41
9:gE:47:ILE:HD13	12:iC:161:PRO:HB3	2.02	0.41
9:gE:299:MET:HG2	9:gE:304:TRP:HZ3	1.86	0.41
9:gE:375:LEU:HD23	9:gE:375:LEU:HA	1.85	0.41
9:gE:560:ILE:O	9:gG:553:LYS:HA	2.21	0.41
9:gG:24:LEU:HD12	9:gG:24:LEU:HA	1.93	0.41
11:h1:118:ARG:O	11:h1:118:ARG:HG3	2.20	0.41
11:h1:124:THR:HB	11:h2:78:ALA:HA	2.02	0.41
11:h2:25:ILE:HG13	11:h2:32:PHE:HE2	1.86	0.41
11:h2:53:PHE:HD1	11:h2:53:PHE:HA	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:hI:52:GLY:O	17:q5:230:TYR:HB3	2.21	0.41
11:hJ:15:PHE:HB3	11:hK:150:ILE:HG13	2.02	0.41
11:hL:140:LEU:HD12	11:hL:140:LEU:HA	1.87	0.41
11:hG:54:MET:H	11:hG:54:MET:HG2	1.52	0.41
11:hG:82:ARG:O	11:hG:86:VAL:HG13	2.21	0.41
11:hh:56:ARG:HB3	11:hh:56:ARG:HH11	1.85	0.41
11:hi:140:LEU:HD12	11:hi:140:LEU:HA	1.87	0.41
11:hj:8:ARG:HD2	11:hk:34:PHE:CE2	2.56	0.41
11:hj:64:ARG:HH12	11:hk:95:GLN:N	2.19	0.41
11:hk:99:ILE:O	11:ho:120:ALA:HB2	2.20	0.41
11:hm:2:PHE:HB3	11:ht:97:ASN:HB3	2.03	0.41
11:hn:114:ARG:HB3	11:hn:123:VAL:HG13	2.02	0.41
11:ho:23:VAL:HG22	11:ho:36:CYS:SG	2.61	0.41
11:hp:39:THR:HG22	11:hp:71:VAL:HG22	2.02	0.41
11:hq:133:TRP:CZ3	11:hq:135:THR:HG22	2.55	0.41
11:hu:116:TYR:CE1	11:hu:123:VAL:HG22	2.56	0.41
11:hy:8:ARG:HE	11:hy:8:ARG:HB2	1.70	0.41
11:hz:118:ARG:HA	11:hz:118:ARG:HD2	1.93	0.41
12:iC:6:ARG:HB2	12:iC:9:TYR:HB2	2.02	0.41
12:iC:189:TRP:CD1	12:iC:320:PRO:HG2	2.56	0.41
12:iC:362:THR:HG21	16:o2:85:SER:HB3	2.03	0.41
12:iD:124:PHE:HE2	12:iD:162:TRP:HB3	1.84	0.41
12:iD:189:TRP:CD1	12:iD:320:PRO:HG2	2.55	0.41
12:iD:345:GLU:HB2	12:iD:352:VAL:HG12	2.03	0.41
12:iF:95:VAL:HG12	12:iF:103:ASN:HB2	2.03	0.41
12:iF:157:VAL:HG21	12:iF:173:VAL:HG22	2.02	0.41
12:iF:221:GLN:HE22	16:o0:69:MET:HE1	1.85	0.41
14:k3:31:ASN:ND2	14:k3:34:ASP:OD2	2.41	0.41
14:k4:124:ILE:HB	14:k4:136:LYS:HB3	2.03	0.41
14:k4:141:ARG:HD3	14:k4:141:ARG:HA	1.65	0.41
14:kV:44:ARG:NH1	15:nT:118:ASP:OD1	2.54	0.41
15:m1:14:GLU:O	15:m1:16:LYS:N	2.51	0.41
15:m5:73:VAL:HG11	15:m5:106:VAL:HG11	2.03	0.41
15:mT:7:LEU:HD22	15:mT:124:LEU:HD11	2.03	0.41
15:mT:10:ASP:OD1	15:mT:11:ILE:N	2.49	0.41
16:o0:190:TYR:CE1	16:o0:194:ARG:HD2	2.56	0.41
16:o1:214:ARG:O	16:o1:215:SER:OG	2.29	0.41
16:o1:320:ARG:NH2	16:o1:322:ASP:OD2	2.54	0.41
16:o1:352:ILE:H	16:o1:352:ILE:HG13	1.57	0.41
16:o2:97:ASN:OD1	16:o2:98:THR:HG23	2.21	0.41
16:o6:233:SER:O	16:pA:141:HIS:NE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:o6:346:ILE:HD13	16:o6:348:MET:HE3	2.03	0.41
16:pA:332:LEU:HD13	17:q9:191:LEU:HD21	2.01	0.41
16:pB:8:THR:HG23	16:pB:11:LEU:H	1.86	0.41
16:pB:314:CYS:HB2	16:pB:348:MET:HB3	2.02	0.41
17:q3:167:GLU:O	17:q3:167:GLU:HG2	2.21	0.41
17:q4:110:LEU:HA	17:q4:110:LEU:HD23	1.76	0.41
17:q5:37:LEU:HD22	17:q5:37:LEU:HA	1.74	0.41
1:S2:256:THR:OG1	1:S2:259:MET:N	2.53	0.41
1:S4:102:THR:HG23	1:S4:104:ASP:N	2.36	0.41
1:S4:181:THR:O	1:S4:190:VAL:HG22	2.19	0.41
1:S4:386:ASN:OD1	1:S4:389:ASN:N	2.51	0.41
1:S8:127:ASN:O	1:S8:131:THR:HG23	2.21	0.41
1:SO:77:THR:HG23	1:SO:79:ALA:N	2.35	0.41
1:SO:107:ILE:HD12	1:SO:107:ILE:HA	1.96	0.41
1:SP:102:THR:OG1	1:SP:103:ASN:N	2.54	0.41
1:SQ:26:PRO:O	1:SQ:28:GLU:N	2.50	0.41
1:SQ:492:PRO:HG2	1:SQ:495:GLN:HG2	2.03	0.41
1:Sw:193:LEU:HD13	1:Sy:206:GLU:HG3	2.03	0.41
1:Sx:175:GLN:O	3:UM:205:ASN:HB2	2.21	0.41
1:Sy:372:CYS:SG	1:Sy:525:VAL:HB	2.61	0.41
1:Sz:8:HIS:HB3	4:Wl:196:ARG:HH11	1.85	0.41
2:T3:111:ASN:O	2:T3:143:TYR:HA	2.21	0.41
2:T5:113:ASN:HD22	2:T7:103:LEU:HD21	1.86	0.41
2:T5:171:LYS:HB2	2:T7:165:GLU:HB3	2.02	0.41
2:T5:172:GLU:HA	2:T7:166:SER:H	1.86	0.41
2:TH:114:GLY:HA3	2:TH:143:TYR:CE2	2.56	0.41
2:Td:181:ILE:HD12	2:Td:272:MET:HB2	2.03	0.41
2:Te:7:LYS:HD3	2:Ti:39:TYR:CD1	2.56	0.41
2:Te:206:CYS:O	2:Te:214:ILE:HA	2.21	0.41
2:Tf:202:LEU:HB3	2:Tf:278:VAL:HG22	2.02	0.41
2:Ti:43:GLY:O	2:Ti:68:GLN:NE2	2.36	0.41
2:Ti:114:GLY:HA3	2:Ti:143:TYR:CE2	2.56	0.41
3:Up:74:LYS:HE3	3:Up:210:THR:HG23	2.03	0.41
3:Uq:160:TYR:CZ	3:Uu:40:ILE:HG21	2.56	0.41
3:Ur:4:LEU:HD23	3:Ur:5:ASN:N	2.36	0.41
3:Us:90:PHE:HA	3:Us:177:THR:O	2.21	0.41
3:Us:90:PHE:O	3:Us:154:SER:HB2	2.20	0.41
3:VL:7:LYS:HE3	4:XJ:316:ILE:HD13	2.02	0.41
3:VL:91:SER:O	3:VL:176:ILE:HA	2.21	0.41
3:VM:19:GLY:HA3	3:VN:13:ARG:HH12	1.86	0.41
3:VM:23:LYS:HB3	3:VM:26:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Vp:72:THR:OG1	3:Vp:214:HIS:ND1	2.41	0.41
3:Vr:114:VAL:HG21	3:Vr:129:VAL:HG22	2.01	0.41
4:WJ:293:PHE:HB2	4:WJ:296:PHE:HD2	1.85	0.41
4:WJ:303:PRO:HB3	4:WJ:385:TRP:CZ2	2.56	0.41
4:WJ:313:PHE:CD2	4:WJ:320:LEU:HD21	2.56	0.41
4:WK:557:TYR:HB3	4:WK:558:ASP:H	1.74	0.41
4:Wj:18:TYR:CD1	4:Wj:20:ARG:HB3	2.55	0.41
4:Wj:321:ALA:O	4:Wj:324:VAL:HG12	2.21	0.41
4:Wj:522:SER:C	4:Wn:591:PRO:HD3	2.46	0.41
4:Wk:186:TYR:OH	4:Wk:191:ILE:HA	2.21	0.41
4:Wk:460:TYR:HE1	4:Wm:458:THR:HG23	1.85	0.41
4:Wl:153:LYS:C	4:Wl:154:ILE:HG13	2.45	0.41
4:Wl:266:LEU:HA	4:Wl:377:HIS:O	2.21	0.41
4:Wl:358:VAL:HG13	4:Wl:369:LEU:HB2	2.02	0.41
4:Wn:195:HIS:NE2	4:Wn:232:LEU:HD21	2.36	0.41
4:XI:116:THR:HG22	4:XI:121:ALA:HB2	2.02	0.41
4:XI:321:ALA:O	4:XI:324:VAL:HG12	2.21	0.41
4:XI:469:PRO:HB2	4:XI:478:TRP:CD2	2.55	0.41
4:XK:79:ILE:HG13	4:XK:79:ILE:O	2.21	0.41
4:Xj:274:THR:HA	4:Xj:282:VAL:HG11	2.03	0.41
4:Xk:479:LYS:HG2	4:Xk:480:LEU:N	2.35	0.41
4:Xi:213:GLY:O	4:Xi:221:GLU:HB2	2.21	0.41
4:Xm:237:ASN:OD1	4:Xm:238:ILE:N	2.52	0.41
4:Xm:472:TYR:CD2	4:Xo:455:PRO:HG3	2.56	0.41
4:Xo:157:SER:HB3	4:Xo:160:SER:OG	2.20	0.41
4:Xo:249:ASP:N	4:Xo:249:ASP:OD1	2.54	0.41
4:Xo:263:ILE:HD13	4:Xo:296:PHE:HA	2.03	0.41
5:YC:42:LYS:H	5:YC:50:PRO:HD2	1.86	0.41
5:YC:201:LEU:HD22	5:YC:219:TRP:HZ3	1.85	0.41
5:YC:335:LEU:HB3	5:YC:336:ILE:H	1.70	0.41
5:YC:746:PHE:CZ	8:eB:214:MET:HE3	2.55	0.41
5:YC:900:ILE:HG21	6:ZE:311:TYR:HE1	1.86	0.41
5:YX:125:GLU:HG2	5:YX:134:TYR:CG	2.56	0.41
5:YX:360:ASN:O	5:YX:362:LYS:HG3	2.21	0.41
5:YX:588:TYR:HB2	5:YX:593:GLU:O	2.21	0.41
5:YX:976:SER:C	5:YX:977:ILE:HG13	2.46	0.41
5:YY:480:LEU:HD22	5:YY:488:MET:HB2	2.02	0.41
5:Yc:644:ASP:O	14:IV:84:TYR:OH	2.35	0.41
5:Yc:793:CYS:SG	5:Yc:820:LEU:HD11	2.61	0.41
5:Yc:946:SER:C	5:Yc:948:THR:H	2.28	0.41
5:Yc:980:GLY:C	5:Yc:983:PRO:HD2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:1030:ILE:HD12	6:aE:7:ILE:HD11	2.03	0.41
5:Yx:21:VAL:HG23	5:Yx:69:PHE:HB3	2.02	0.41
5:Yx:548:ILE:HB	5:Yx:552:SER:OG	2.20	0.41
5:Yx:851:ASN:ND2	8:fU:390:GLU:OE2	2.23	0.41
5:Yy:170:GLU:HG2	5:Yy:171:ASN:O	2.21	0.41
5:Yy:738:LYS:HD2	5:Yy:882:PHE:O	2.21	0.41
5:Yy:1010:LYS:HB3	5:Yy:1010:LYS:HE2	1.86	0.41
6:ZD:87:ASP:OD1	6:ZD:202:ARG:NH1	2.53	0.41
6:Za:294:LYS:HB2	6:Za:297:TYR:CZ	2.56	0.41
6:Zb:281:ALA:N	6:Zb:301:ASP:O	2.53	0.41
6:aa:66:LEU:HD13	6:aa:66:LEU:HA	1.90	0.41
7:b3:16:GLN:OE1	7:b3:460:LYS:HB2	2.20	0.41
7:b3:630:GLN:HA	7:b3:631:PRO:HD3	1.95	0.41
7:b5:111:ALA:HB3	7:b5:114:ASP:OD1	2.21	0.41
7:b5:332:GLU:OE1	7:b5:332:GLU:N	2.36	0.41
7:b6:614:THR:O	7:b6:616:SER:N	2.53	0.41
7:b8:355:LEU:HD23	7:b8:355:LEU:HA	1.85	0.41
7:b9:16:GLN:HE21	7:b9:16:GLN:HB2	1.70	0.41
7:bN:427:VAL:O	7:bN:431:THR:OG1	2.30	0.41
7:bN:538:ASP:OD1	7:bN:538:ASP:N	2.52	0.41
7:bO:112:VAL:HG13	7:bO:131:ILE:O	2.21	0.41
7:bO:129:GLY:HA2	7:bO:146:PRO:HD3	2.03	0.41
7:bP:137:ASP:OD1	7:bP:139:LYS:HG3	2.21	0.41
7:bR:153:LYS:HG2	7:bR:167:TRP:HH2	1.86	0.41
7:bR:268:VAL:HG23	7:bR:269:PHE:CD2	2.55	0.41
7:bY:561:LYS:HD2	7:cL:10:LEU:HD13	2.01	0.41
7:bY:572:LEU:HD12	7:bY:572:LEU:HA	1.84	0.41
7:bY:598:LEU:HD23	7:bY:598:LEU:HA	1.96	0.41
7:cA:317:LYS:O	7:cA:317:LYS:HG2	2.21	0.41
7:cA:639:THR:HB	7:cJ:624:VAL:HG13	2.04	0.41
7:cC:379:ALA:HB2	7:cC:454:TYR:CE2	2.52	0.41
7:cD:26:THR:HA	7:cD:77:ASP:O	2.20	0.41
7:cD:153:LYS:HA	7:cD:153:LYS:HD3	1.88	0.41
7:cD:518:TYR:CZ	7:cD:539:LYS:HD3	2.56	0.41
7:cE:69:MET:O	7:cE:73:GLN:HG2	2.21	0.41
7:cE:151:ILE:O	7:cE:155:LYS:HG2	2.21	0.41
7:cE:308:ASN:ND2	7:cE:313:ASP:OD2	2.53	0.41
7:cF:455:LYS:HE2	7:cF:473:ASP:CG	2.46	0.41
7:cF:637:TYR:O	7:cG:622:GLU:HA	2.21	0.41
7:cG:302:LYS:HD3	7:cG:302:LYS:HA	1.84	0.41
7:cH:130:LYS:HE2	7:cH:130:LYS:HB2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cH:135:ASP:OD1	7:cH:136:ALA:N	2.54	0.41
7:cI:538:ASP:O	7:cI:550:ARG:HA	2.21	0.41
7:cJ:505:LEU:HD12	7:cJ:505:LEU:HA	1.89	0.41
7:cK:72:LEU:HD13	7:cK:72:LEU:HA	1.88	0.41
7:cK:450:ILE:HG22	7:cK:541:ALA:HB2	2.03	0.41
7:cL:205:MET:O	7:cL:211:GLN:NE2	2.51	0.41
7:cL:554:ARG:O	7:cL:554:ARG:HD3	2.21	0.41
7:cN:32:LYS:HD3	7:cN:64:TYR:CE1	2.57	0.41
7:cN:366:GLU:H	7:cN:366:GLU:HG3	1.69	0.41
7:dS:38:ALA:HA	7:dS:82:ARG:HB2	2.02	0.41
7:dS:344:LEU:HD12	7:dS:346:SER:HB3	2.02	0.41
7:dS:640:LEU:HD21	7:dT:10:LEU:HD11	2.02	0.41
7:dT:572:LEU:HD12	7:dT:572:LEU:HA	1.87	0.41
7:dV:154:ALA:HB1	7:dV:159:GLU:O	2.21	0.41
8:eB:443:LYS:HB2	8:eB:443:LYS:HE2	1.80	0.41
8:eW:516:SER:HA	8:eW:537:ASP:HA	2.02	0.41
8:eW:552:LYS:HB3	8:eW:591:VAL:HG13	2.03	0.41
8:fB:45:ASP:C	8:fB:47:ASP:N	2.79	0.41
8:fR:283:ALA:H	8:fR:313:ALA:HB3	1.86	0.41
8:fR:377:LYS:HD2	8:fR:641:VAL:HG21	2.02	0.41
8:fS:414:LEU:HD23	8:fS:486:ARG:HE	1.85	0.41
8:fS:424:TYR:HE1	8:fS:655:LEU:HB2	1.86	0.41
8:fS:539:ARG:HH11	8:fS:580:LEU:HB3	1.86	0.41
8:fU:239:GLY:HA3	8:fU:258:GLY:O	2.21	0.41
8:fU:397:LYS:H	8:fU:397:LYS:HG3	1.67	0.41
8:fs:484:MET:HE2	8:fs:484:MET:HB3	1.80	0.41
8:fs:484:MET:HE3	8:fs:632:ILE:HD12	2.03	0.41
9:gE:551:THR:HA	9:gH:558:SER:HB3	2.03	0.41
9:gG:135:GLY:HA2	9:gG:383:TYR:OH	2.21	0.41
9:gG:180:LEU:HD12	9:gG:180:LEU:HA	1.71	0.41
9:gG:434:THR:HG22	9:gG:436:ASP:H	1.86	0.41
9:gH:208:LYS:O	9:gH:209:GLN:HG3	2.21	0.41
9:gH:284:MET:HE2	9:gH:288:GLY:C	2.46	0.41
9:gH:285:GLY:O	9:gH:289:VAL:HG23	2.21	0.41
11:hJ:58:ILE:HD11	17:q8:7:PHE:HE2	1.86	0.41
11:hs:32:PHE:HZ	11:hs:71:VAL:HG11	1.85	0.41
11:hv:69:TRP:CZ3	11:hv:132:LEU:HD21	2.56	0.41
11:hx:19:ASN:OD1	11:hx:19:ASN:N	2.34	0.41
11:hy:53:PHE:HD1	11:hy:53:PHE:HA	1.72	0.41
12:iC:124:PHE:O	12:iC:125:PHE:CG	2.74	0.41
12:iC:223:ILE:H	12:iC:223:ILE:HG12	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:iD:18:ASP:HB3	16:o2:110:LEU:HD23	2.03	0.41
12:iF:221:GLN:NE2	16:o0:69:MET:HE1	2.36	0.41
14:k4:127:ASP:O	14:k4:129:ASN:N	2.54	0.41
14:k7:187:ILE:HD13	14:k7:187:ILE:HA	1.95	0.41
15:m6:115:ASN:OD1	15:m6:115:ASN:N	2.52	0.41
15:mT:66:THR:HG21	16:o6:44:SER:HB3	2.02	0.41
16:o6:34:TYR:HB3	16:o6:228:TYR:CZ	2.56	0.41
17:q5:177:TRP:CD1	17:q5:220:SER:HG	2.39	0.41
17:q9:89:ILE:HD12	17:q9:110:LEU:CD2	2.51	0.41
18:rh:18:UNK:C	18:rh:20:UNK:N	2.83	0.41
1:S0:405:ARG:NH1	1:S0:410:THR:HG22	2.36	0.40
1:S2:5:THR:HG23	4:XK:196:ARG:CZ	2.52	0.40
1:S3:146:SER:HA	1:S3:164:LYS:NZ	2.36	0.40
1:S7:142:ILE:HG12	1:S7:157:THR:O	2.21	0.40
1:S8:446:LYS:NZ	1:S8:460:PHE:HB3	2.35	0.40
1:SA:409:LEU:HD22	1:SA:429:CYS:HB2	2.02	0.40
1:SP:386:ASN:ND2	1:SP:389:ASN:HB2	2.34	0.40
1:SP:406:GLY:H	1:SP:409:LEU:HD12	1.86	0.40
1:SQ:417:ASN:HA	1:SQ:423:PRO:HA	2.03	0.40
1:Sv:121:PHE:CZ	1:Sx:121:PHE:HA	2.56	0.40
1:Sw:160:MET:HG2	1:Sw:165:THR:HG22	2.03	0.40
1:Sx:197:ALA:HB3	3:UN:31:ASN:O	2.21	0.40
1:Sx:214:THR:O	1:Sx:218:SER:OG	2.25	0.40
1:Sx:216:MET:HG3	1:Sx:217:ASN:N	2.36	0.40
1:Sy:63:GLU:HA	1:Sy:66:VAL:HG22	2.02	0.40
2:T2:111:ASN:HD21	2:T2:116:ILE:H	1.70	0.40
2:T3:247:ASP:CG	2:T3:251:ASN:HD21	2.25	0.40
2:T4:222:LEU:O	2:T4:230:VAL:HA	2.21	0.40
2:TF:23:ILE:HG13	2:TF:24:LEU:N	2.36	0.40
2:Te:9:LEU:HD11	2:Ti:52:ASN:HB2	2.03	0.40
2:Te:46:ARG:NH2	2:Te:69:LYS:HD2	2.36	0.40
2:Ti:53:GLY:HA2	2:Ti:59:GLN:H	1.86	0.40
3:UM:193:TRP:CZ3	3:UM:217:ARG:HB2	2.56	0.40
3:Uq:152:ASP:OD1	3:Uq:153:GLY:N	2.54	0.40
3:Us:125:PHE:O	3:Us:129:VAL:HG23	2.20	0.40
3:Us:172:SER:O	4:Wk:340:VAL:HG22	2.21	0.40
3:Vq:4:LEU:HD22	4:Xm:356:TYR:CD2	2.50	0.40
3:Vr:4:LEU:HG	4:Xn:318:GLN:OE1	2.21	0.40
3:Vr:90:PHE:CE2	3:Vr:129:VAL:HG21	2.57	0.40
3:Vt:36:GLY:HA2	3:Vt:55:ALA:N	2.36	0.40
3:Vt:167:VAL:HG22	3:Vt:182:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:165:LYS:NZ	4:WI:182:ARG:H	2.19	0.40
4:WI:213:GLY:HA2	4:WI:221:GLU:HB2	2.03	0.40
4:WJ:255:ARG:HA	4:WJ:255:ARG:HD3	1.89	0.40
4:WJ:593:ILE:HA	4:WK:518:GLY:O	2.21	0.40
4:WK:102:TRP:N	4:WK:102:TRP:CD1	2.89	0.40
4:WK:237:ASN:OD1	4:WK:238:ILE:N	2.52	0.40
4:WK:277:GLU:HA	4:WK:295:ALA:HA	2.02	0.40
4:Wj:198:ASN:HD21	4:Wl:164:ARG:HH12	1.67	0.40
4:Wk:314:ASN:HA	4:Wk:380:ILE:HG13	2.03	0.40
4:Wk:361:ASP:OD1	4:Wk:362:GLU:N	2.54	0.40
4:Wm:358:VAL:HG13	4:Wm:369:LEU:HB2	2.04	0.40
4:Wn:72:THR:OG1	4:Wn:102:TRP:HD1	2.04	0.40
4:Wn:396:LYS:O	4:Wn:399:ILE:HG13	2.21	0.40
4:Wo:176:ASP:HA	4:Wo:231:ARG:HA	2.02	0.40
4:XI:9:ASN:HD22	6:aD:200:ILE:HG21	1.85	0.40
4:XJ:89:TYR:CE1	4:XJ:139:ALA:HA	2.56	0.40
4:XK:330:HIS:O	4:XK:352:SER:HB3	2.21	0.40
4:Xj:176:ASP:OD1	4:Xj:176:ASP:N	2.54	0.40
4:Xj:326:MET:CE	4:XI:264:ARG:HB3	2.45	0.40
4:Xj:332:VAL:HG13	4:Xj:339:GLU:O	2.21	0.40
4:Xj:362:GLU:HB3	4:Xj:367:GLU:OE1	2.20	0.40
4:Xj:464:VAL:HG21	4:XI:422:LEU:HD21	2.03	0.40
4:Xk:23:GLY:C	4:Xk:25:LYS:N	2.79	0.40
4:Xk:213:GLY:O	4:Xk:221:GLU:HB2	2.21	0.40
4:Xk:258:TYR:HE1	4:Xk:384:THR:HG23	1.84	0.40
4:Xk:523:THR:HG23	4:Xo:591:PRO:HG2	2.03	0.40
4:XI:146:VAL:O	4:XI:148:ASN:N	2.54	0.40
4:XI:357:SER:HA	4:XI:371:PHE:CD2	2.56	0.40
4:Xm:91:LYS:HA	4:Xm:91:LYS:HD3	1.83	0.40
4:Xm:92:VAL:HG12	4:Xm:136:VAL:HG12	2.03	0.40
4:Xm:213:GLY:HA3	4:Xm:231:ARG:HB3	2.03	0.40
4:Xm:481:PHE:HB2	4:Xm:599:ILE:HG22	2.03	0.40
4:Xn:503:ASN:OD1	4:Xn:503:ASN:N	2.50	0.40
4:Xo:311:VAL:HG22	4:Xo:320:LEU:HD22	2.03	0.40
4:Xo:460:TYR:OH	4:Xo:462:ASN:ND2	2.49	0.40
5:YC:250:TYR:CZ	5:YC:306:ARG:HG2	2.56	0.40
5:YC:300:LEU:HG	5:YC:301:PRO:HD3	2.02	0.40
5:YC:404:TYR:CD2	5:YC:415:ARG:HB3	2.56	0.40
5:YX:137:PHE:CZ	5:YX:595:ILE:HD12	2.56	0.40
5:YX:227:ASP:CG	5:YX:228:ARG:HG2	2.46	0.40
5:YX:376:PHE:HB2	5:YX:404:TYR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:15:LYS:HB2	5:Yc:15:LYS:HE3	1.78	0.40
5:Yc:777:LEU:HD23	5:Yc:809:TRP:CD2	2.56	0.40
5:Yc:944:HIS:HA	5:Yc:951:ALA:HA	2.03	0.40
5:Yc:1000:THR:HG22	5:Yc:1001:PHE:H	1.86	0.40
5:Yx:9:THR:HG21	6:ab:57:ALA:HB3	2.02	0.40
5:Yy:187:ILE:HD12	5:Yy:187:ILE:H	1.86	0.40
6:ZD:63:ASP:OD1	6:ZD:63:ASP:N	2.52	0.40
6:ZD:95:TRP:HB3	6:ZD:120:ASN:OD1	2.22	0.40
6:ZD:117:ALA:O	6:ZD:121:ALA:N	2.54	0.40
6:ZE:30:SER:OG	6:ZE:34:LYS:NZ	2.34	0.40
6:Za:150:LYS:HG2	6:Za:151:ASP:N	2.36	0.40
6:Zb:43:ARG:HD2	6:Zb:74:HIS:ND1	2.36	0.40
6:aZ:138:ASP:OD1	6:aZ:138:ASP:N	2.55	0.40
6:ac:287:ASP:N	6:ac:287:ASP:OD1	2.51	0.40
7:b4:264:THR:OG1	7:b4:284:ARG:NH2	2.55	0.40
7:b4:455:LYS:HB3	7:b4:470:LEU:HD13	2.03	0.40
7:b5:379:ALA:HB2	7:b5:454:TYR:HE2	1.86	0.40
7:b5:381:GLU:HB3	7:b5:385:THR:HG23	2.02	0.40
7:b5:641:ASN:HA	7:b6:11:LYS:O	2.21	0.40
7:b7:650:ASP:C	7:b7:652:ASP:H	2.29	0.40
7:b8:11:LYS:HE3	7:b8:13:THR:HG21	2.02	0.40
7:b8:72:LEU:HD12	7:b8:72:LEU:HA	1.85	0.40
7:b9:23:SER:O	7:b9:76:ASN:HB2	2.21	0.40
7:b9:107:GLY:HA3	7:b9:110:TYR:HE2	1.86	0.40
7:b9:108:SER:OG	7:b9:137:ASP:OD2	2.40	0.40
7:bO:215:LYS:HB2	7:bO:329:ASN:OD1	2.22	0.40
7:bO:518:TYR:CD2	7:bP:6:PRO:HD3	2.56	0.40
7:bR:440:ASN:ND2	7:bR:442:ASN:HB2	2.36	0.40
7:cA:100:GLU:HG3	7:cA:185:GLY:HA3	2.03	0.40
7:cB:549:ASP:OD2	7:cF:271:TYR:OH	2.18	0.40
7:cD:42:LYS:HE3	7:cD:42:LYS:HB3	1.87	0.40
7:cD:602:TYR:HD1	7:cD:602:TYR:HA	1.78	0.40
7:cE:44:VAL:HG11	7:cE:50:LEU:HB2	2.02	0.40
7:cE:510:ARG:HG2	7:cE:511:GLN:H	1.85	0.40
7:cF:211:GLN:HE21	7:cF:211:GLN:HB3	1.64	0.40
7:cF:251:LEU:HD23	7:cF:262:ALA:HA	2.02	0.40
7:cG:107:GLY:HA3	7:cG:110:TYR:HE2	1.85	0.40
7:cG:366:GLU:H	7:cG:366:GLU:HG3	1.64	0.40
7:cH:137:ASP:OD1	7:cH:138:GLY:N	2.53	0.40
7:cH:505:LEU:HA	7:cH:505:LEU:HD12	1.87	0.40
7:cJ:538:ASP:OD1	7:cJ:538:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cJ:654:LEU:HD23	7:cJ:654:LEU:HA	1.78	0.40
7:cK:383:LEU:HD11	7:cK:436:TYR:HE1	1.86	0.40
7:cL:572:LEU:O	7:cL:573:PHE:C	2.63	0.40
7:cN:117:THR:HG23	7:cN:126:GLU:O	2.21	0.40
7:dS:193:ILE:HB	7:dS:210:PHE:CE1	2.55	0.40
7:dT:351:THR:OG1	7:dT:352:ALA:N	2.53	0.40
7:dU:571:ARG:HD2	7:dU:584:PHE:HB2	2.03	0.40
7:dW:351:THR:OG1	7:dW:352:ALA:N	2.54	0.40
7:dW:441:PHE:CZ	7:dW:443:ILE:HD11	2.56	0.40
7:dZ:456:TYR:HD1	7:dZ:456:TYR:HA	1.75	0.40
8:eU:396:LEU:O	8:eU:400:ASN:ND2	2.53	0.40
8:eU:414:LEU:HD22	8:eU:414:LEU:HA	1.93	0.40
8:eU:592:ILE:HG22	8:eU:604:TRP:HB2	2.03	0.40
8:fB:521:ARG:NH1	8:fB:533:ASP:OD2	2.53	0.40
8:fR:194:ARG:HB3	8:fR:226:MET:HE1	2.02	0.40
8:fR:492:TYR:OH	8:fR:611:LEU:O	2.21	0.40
8:fR:510:MET:HE2	8:fR:602:ILE:HG21	2.03	0.40
8:fS:200:TYR:CE1	8:fS:205:GLU:HB2	2.56	0.40
8:fS:335:THR:HB	8:fS:344:ASP:CG	2.46	0.40
8:fS:343:THR:O	8:fS:347:THR:HG23	2.21	0.40
8:fU:209:TRP:HB2	8:fU:223:ILE:HG23	2.02	0.40
8:fr:56:LEU:O	8:fr:60:LEU:HG	2.21	0.40
8:fs:169:GLN:HE21	8:fs:276:ASN:HB3	1.86	0.40
8:fs:536:TYR:HB2	8:fs:586:ARG:NH2	2.36	0.40
9:gE:8:LEU:HD21	9:gG:10:TRP:HB3	2.02	0.40
9:gE:156:ILE:C	9:gE:375:LEU:HB2	2.46	0.40
9:gG:105:ARG:NH1	12:iC:375:GLU:OE1	2.54	0.40
10:gd:18:PRO:HD2	10:gd:46:HIS:HB2	2.03	0.40
11:hI:64:ARG:NH1	11:hJ:95:GLN:HG3	2.36	0.40
11:hJ:49:ILE:HG13	11:hJ:60:VAL:HG13	2.02	0.40
11:he:39:THR:HG22	11:he:71:VAL:HG22	2.02	0.40
11:hp:43:ALA:O	11:hp:162:TRP:NE1	2.54	0.40
11:hs:58:ILE:HD13	11:hs:58:ILE:H	1.85	0.40
11:hu:41:LEU:O	11:hu:42:PRO:C	2.64	0.40
12:iC:124:PHE:HE2	12:iC:162:TRP:HB3	1.87	0.40
14:k7:6:PHE:CD2	14:k7:30:ARG:HG3	2.56	0.40
14:IV:49:TYR:H	16:pA:25:THR:HG22	1.86	0.40
16:o1:54:VAL:HG23	16:o1:55:THR:HG23	2.02	0.40
16:o6:83:ASN:ND2	16:o6:108:ASN:HB3	2.36	0.40
16:pA:91:ILE:H	16:pA:91:ILE:HG12	1.73	0.40
16:pA:246:ILE:HD13	16:pA:246:ILE:HA	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:pB:308:THR:O	16:pB:310:ILE:N	2.54	0.40
17:q3:146:PRO:O	17:q7:246:ARG:HD2	2.21	0.40
17:q4:27:ALA:H	17:q4:199:ILE:HA	1.86	0.40
17:q4:126:TYR:HA	17:q9:230:TYR:HD2	1.86	0.40
17:q4:218:MET:HB2	17:q4:218:MET:HE2	1.83	0.40
1:S0:407:SER:HA	1:S0:410:THR:OG1	2.21	0.40
1:S1:51:SER:C	1:S3:60:ILE:HB	2.45	0.40
1:S1:324:GLY:HA3	1:S1:331:ILE:HD12	2.03	0.40
1:S2:107:ILE:HD12	1:S2:107:ILE:HA	1.91	0.40
1:S3:32:VAL:O	1:S3:36:ILE:HG12	2.20	0.40
1:S3:375:TYR:CZ	1:S3:392:LEU:HD23	2.55	0.40
1:S4:45:ASN:ND2	1:S6:24:ASN:OD1	2.44	0.40
1:S5:6:TYR:HD2	1:S5:7:GLN:HG2	1.85	0.40
1:S5:33:GLN:NE2	1:S7:19:ASP:O	2.54	0.40
1:S5:272:GLN:HB3	1:S5:276:ASP:H	1.86	0.40
1:S6:232:THR:HG22	1:S6:235:GLU:HG3	2.03	0.40
1:SA:49:ASP:HB2	1:SA:50:ALA:H	1.49	0.40
1:SA:112:ASN:O	1:Sy:117:THR:HB	2.21	0.40
1:SA:155:ASP:OD1	1:Sy:164:LYS:HG3	2.21	0.40
1:SO:88:PRO:O	1:SO:97:LEU:N	2.33	0.40
1:SO:229:LYS:HG3	1:SO:243:VAL:HG12	2.04	0.40
1:SO:341:ILE:HG21	1:SO:359:TRP:CZ2	2.56	0.40
1:SQ:77:THR:HG23	1:SQ:79:ALA:N	2.36	0.40
1:Sw:150:ALA:HB3	1:Sw:168:LEU:HD12	2.02	0.40
1:Sw:255:SER:HB2	1:Sw:261:GLY:O	2.21	0.40
1:Sx:47:VAL:H	1:Sx:48:PRO:HD2	1.86	0.40
1:Sx:264:LYS:NZ	1:Sx:276:ASP:OD2	2.36	0.40
1:Sz:349:TRP:NE1	1:Sz:351:ALA:HB3	2.37	0.40
2:Te:173:SER:N	2:Tg:166:SER:OG	2.38	0.40
2:Tf:14:GLU:OE1	2:Tf:23:ILE:HG22	2.21	0.40
2:Tf:168:PHE:CZ	2:Th:149:ARG:HB3	2.57	0.40
2:Ti:23:ILE:H	2:Ti:23:ILE:HG13	1.70	0.40
3:Ur:87:TYR:CD1	3:Ur:183:ILE:HD11	2.57	0.40
3:VM:7:LYS:HA	3:VN:11:ILE:O	2.22	0.40
3:VM:47:PHE:CE2	3:VM:49:GLU:HB2	2.55	0.40
3:Vq:82:VAL:HB	3:Vq:187:LYS:HB3	2.03	0.40
3:Vr:89:ALA:HA	3:Vr:154:SER:O	2.21	0.40
3:Vr:173:THR:HB	4:Xj:339:GLU:HG2	2.02	0.40
3:Vt:126:VAL:O	3:Vt:130:ARG:HG3	2.22	0.40
3:Vu:95:THR:N	3:Vu:174:TYR:O	2.52	0.40
3:Vu:110:PHE:H	3:Vu:171:TYR:HH	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:352:SER:HB2	4:WI:355:ASP:HA	2.03	0.40
4:WJ:290:SER:HB2	4:WJ:370:HIS:HA	2.04	0.40
4:WK:148:ASN:ND2	4:WK:150:GLN:HE21	2.20	0.40
4:WK:180:VAL:HG12	4:WK:228:PHE:O	2.21	0.40
4:Wk:30:PHE:HE2	4:Wo:26:ILE:HG13	1.86	0.40
4:Wl:139:ALA:HB3	4:Wl:140:PRO:HD3	2.03	0.40
4:Wl:150:GLN:H	4:Wl:150:GLN:HG3	1.66	0.40
4:Wm:312:ARG:O	4:Wm:382:ASN:N	2.48	0.40
4:Wm:361:ASP:HB3	4:Wm:362:GLU:OE1	2.21	0.40
4:Wo:23:GLY:O	4:Wo:25:LYS:N	2.47	0.40
4:Wo:154:ILE:H	4:Wo:154:ILE:HG13	1.51	0.40
4:XI:30:PHE:HD1	4:XI:30:PHE:HA	1.81	0.40
4:XI:213:GLY:O	4:XI:214:SER:OG	2.38	0.40
4:XJ:167:PHE:HE2	4:XJ:244:ILE:HD12	1.85	0.40
4:XJ:305:ASN:HB3	4:XK:255:ARG:NH1	2.37	0.40
4:XK:555:CYS:HA	5:Yc:184:CYS:SG	2.62	0.40
4:Xj:96:ARG:CZ	4:Xj:132:ASP:HB3	2.52	0.40
4:Xk:260:ARG:O	4:Xk:261:ARG:NH1	2.47	0.40
4:Xk:326:MET:HB3	4:Xm:279:SER:HA	2.03	0.40
4:Xi:7:ILE:H	4:Xi:7:ILE:HG13	1.80	0.40
4:Xi:137:TYR:HA	4:Xi:143:TRP:CD1	2.55	0.40
4:Xn:195:HIS:C	4:Xn:197:GLY:H	2.29	0.40
4:Xo:231:ARG:HG2	4:Xo:232:LEU:N	2.36	0.40
5:YC:42:LYS:HE2	5:YC:77:THR:HG21	2.02	0.40
5:YC:189:ARG:HG2	5:YC:204:ARG:NH2	2.35	0.40
5:YC:659:LEU:HB3	5:YC:660:GLN:H	1.80	0.40
5:YC:867:LYS:HG2	5:YC:893:ILE:HB	2.03	0.40
5:YC:916:TYR:HB3	5:YC:1004:PHE:HB3	2.02	0.40
5:YC:923:SER:HB2	5:YC:986:ARG:CZ	2.51	0.40
5:YX:613:LYS:HD3	8:eW:617:GLU:O	2.21	0.40
5:YX:646:ARG:HG3	5:YX:647:PRO:HD3	2.04	0.40
5:YY:614:PRO:HB2	5:YY:617:VAL:HG22	2.03	0.40
5:YY:793:CYS:SG	5:YY:820:LEU:HD11	2.61	0.40
5:Yx:236:THR:HG23	5:Yx:515:ASN:HB3	2.04	0.40
5:Yx:912:ILE:HD12	5:Yx:1013:LYS:HG2	2.02	0.40
5:Yx:980:GLY:C	5:Yx:983:PRO:HD2	2.45	0.40
5:Yx:1016:ILE:O	5:Yx:1018:ASN:ND2	2.54	0.40
5:Yy:114:ILE:HD12	5:Yy:114:ILE:HA	1.92	0.40
5:Yy:236:THR:HG23	5:Yy:515:ASN:HB3	2.02	0.40
5:Yy:457:ASN:O	5:Yy:458:ASP:C	2.64	0.40
5:Yy:933:ILE:HG22	5:Yy:954:GLU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:ZD:92:ARG:NH1	6:ZD:204:THR:O	2.43	0.40
6:ZE:19:GLU:OE1	6:ZE:240:TYR:OH	2.37	0.40
6:ZZ:71:MET:HG2	6:ZZ:309:MET:HE1	2.04	0.40
6:aD:8:TYR:HB2	6:aE:313:GLU:OE2	2.21	0.40
6:aZ:151:ASP:O	6:aZ:155:LYS:HG3	2.21	0.40
6:aa:279:LEU:H	6:aa:306:SER:HB3	1.86	0.40
7:b0:135:ASP:OD1	7:b0:136:ALA:N	2.53	0.40
7:b0:159:GLU:HG3	7:b0:167:TRP:HE1	1.85	0.40
7:b3:100:GLU:OE2	7:b3:186:LYS:NZ	2.35	0.40
7:b5:76:ASN:ND2	7:b5:76:ASN:O	2.54	0.40
7:b5:344:LEU:HD22	7:b5:344:LEU:HA	1.89	0.40
7:b6:41:ILE:HD11	7:b6:361:PHE:HB3	2.03	0.40
7:b6:110:TYR:CD1	7:b6:177:GLY:HA3	2.56	0.40
7:b7:299:ARG:H	7:b7:299:ARG:HG2	1.68	0.40
7:bO:79:ARG:HD2	7:bO:370:VAL:HG13	2.04	0.40
7:bQ:152:ALA:O	7:bQ:156:GLU:HG2	2.20	0.40
7:bQ:470:LEU:HD23	7:bQ:525:VAL:HG21	2.03	0.40
7:bQ:628:TYR:OH	7:cP:15:VAL:O	2.36	0.40
7:bY:261:ARG:HG3	7:bY:262:ALA:N	2.35	0.40
7:cA:23:SER:O	7:cA:76:ASN:HB2	2.21	0.40
7:cA:423:VAL:HG21	7:cA:513:GLN:HB3	2.03	0.40
7:cA:463:ASP:OD1	7:cJ:317:LYS:NZ	2.54	0.40
7:cB:120:TYR:CE2	7:cB:157:VAL:HG11	2.57	0.40
7:cB:344:LEU:HD22	7:cB:344:LEU:HA	1.90	0.40
7:cC:454:TYR:HB3	7:cC:467:TRP:CD1	2.57	0.40
7:cD:296:SER:O	7:cD:311:ILE:HG13	2.21	0.40
7:cD:643:VAL:HG12	7:cD:645:THR:HG23	2.02	0.40
7:cF:536:TYR:HD1	7:cF:536:TYR:HA	1.71	0.40
7:cG:653:GLU:H	7:cG:653:GLU:HG2	1.74	0.40
7:cI:12:GLU:HG3	7:cM:548:PHE:HE2	1.86	0.40
7:cI:19:VAL:HG22	7:cM:605:ARG:NH2	2.37	0.40
7:cI:114:ASP:OD1	7:cI:114:ASP:N	2.54	0.40
7:cJ:538:ASP:O	7:cJ:550:ARG:HA	2.21	0.40
7:cM:462:ASN:HD22	7:cM:466:ARG:HH12	1.68	0.40
7:cO:154:ALA:HA	7:cO:157:VAL:HG22	2.03	0.40
7:cO:312:ASP:OD1	7:cO:327:ALA:N	2.39	0.40
7:cO:454:TYR:HB3	7:cO:467:TRP:CD1	2.56	0.40
7:cP:536:TYR:HD1	7:cP:536:TYR:HA	1.76	0.40
7:dU:505:LEU:HA	7:dU:505:LEU:HD12	1.86	0.40
7:dU:554:ARG:O	7:dU:554:ARG:HD3	2.22	0.40
7:dW:559:MET:HE2	7:dW:559:MET:HB2	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:dW:640:LEU:HD23	15:m1:106:VAL:HG23	2.03	0.40
7:dZ:455:LYS:HZ3	7:dZ:473:ASP:CG	2.30	0.40
8:eB:98:TYR:CB	8:eB:332:LYS:HG3	2.50	0.40
8:eB:113:THR:HA	8:eB:161:TYR:O	2.22	0.40
8:eB:523:VAL:HG12	8:eB:533:ASP:HA	2.02	0.40
8:eU:197:VAL:HG11	8:eU:236:PHE:CZ	2.56	0.40
8:eW:378:PRO:C	8:eW:380:SER:H	2.29	0.40
8:f9:455:PHE:O	8:f9:457:SER:N	2.53	0.40
8:fA:389:ARG:HE	8:fA:389:ARG:HB3	1.71	0.40
8:fS:181:LYS:HD2	8:fS:181:LYS:HA	1.91	0.40
8:fS:277:GLY:C	8:fS:279:ASP:H	2.29	0.40
8:fs:397:LYS:NZ	8:fs:406:PRO:HD2	2.36	0.40
8:fs:643:GLU:CG	8:fs:646:LEU:HB2	2.51	0.40
9:gG:187:ARG:HD3	9:gG:187:ARG:HA	1.86	0.40
9:gH:506:VAL:HG12	9:gH:508:GLY:H	1.85	0.40
11:h2:49:ILE:HG12	11:h2:60:VAL:HG12	2.03	0.40
11:hJ:61:ALA:HA	11:hK:133:TRP:CH2	2.56	0.40
11:hJ:143:ASP:OD2	11:hJ:145:ASP:HB2	2.21	0.40
11:hX:41:LEU:O	11:hX:42:PRO:C	2.65	0.40
11:hk:1:MET:HE3	11:hk:1:MET:HB2	1.76	0.40
11:hl:57:LYS:HB3	11:hl:57:LYS:HE2	1.73	0.40
11:hp:41:LEU:HD22	11:hq:140:LEU:HD23	2.02	0.40
11:ht:56:ARG:HB3	11:ht:56:ARG:HH11	1.87	0.40
12:iD:15:LYS:HG3	12:iD:17:PHE:CE1	2.56	0.40
12:iD:124:PHE:O	12:iD:125:PHE:CG	2.75	0.40
12:iF:9:TYR:CE2	16:o0:287:VAL:HG23	2.55	0.40
12:iF:279:ARG:NH2	12:iF:291:GLY:HA2	2.36	0.40
14:k3:13:ALA:HB1	14:k3:16:VAL:HG22	2.03	0.40
14:k7:139:LYS:HE3	14:k7:139:LYS:HB2	1.92	0.40
15:nT:64:ASN:OD1	15:nT:64:ASN:N	2.52	0.40
16:o0:67:TYR:CD2	16:o0:121:LYS:HD3	2.57	0.40
16:o0:322:ASP:HB3	16:o0:343:THR:HG23	2.03	0.40
16:pA:190:TYR:CE1	16:pA:194:ARG:HD2	2.57	0.40
16:pA:190:TYR:CZ	16:pA:194:ARG:HD2	2.56	0.40
16:pA:231:TYR:CG	16:pA:250:LEU:HD21	2.56	0.40
17:q4:133:ASN:OD1	17:q4:153:ARG:NH1	2.38	0.40
17:q5:221:ILE:HA	17:q5:221:ILE:HD12	1.86	0.40
17:q7:229:SER:OG	17:q7:231:ASP:OD1	2.39	0.40
1:S0:207:GLY:HA2	1:S7:193:LEU:HD21	2.03	0.40
1:S0:406:GLY:O	1:S0:410:THR:HG23	2.21	0.40
1:S0:499:LYS:HE2	1:S0:499:LYS:HB2	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:89:ASN:HB2	1:S1:113:GLU:OE2	2.22	0.40
1:S4:24:ASN:OD1	1:S8:45:ASN:ND2	2.43	0.40
1:S4:65:GLU:HG2	1:S4:74:LYS:HE3	2.02	0.40
1:S4:116:ILE:HG23	1:S4:120:LYS:HE2	2.03	0.40
1:S4:347:MET:HB3	1:S8:347:MET:HE3	2.03	0.40
1:S5:49:ASP:OD1	1:S5:50:ALA:N	2.54	0.40
1:S5:335:ASN:HB3	1:S7:329:ASN:HD21	1.87	0.40
1:S5:444:TYR:CZ	1:S7:504:ARG:HD2	2.56	0.40
1:S6:117:THR:OG1	1:S8:112:ASN:HA	2.22	0.40
1:SA:41:PRO:HA	1:Sw:24:ASN:ND2	2.35	0.40
1:SO:478:ASP:OD1	1:SO:478:ASP:N	2.54	0.40
1:SP:101:SER:O	1:SP:120:LYS:NZ	2.49	0.40
1:SP:107:ILE:HD11	1:SP:128:ALA:HB2	2.04	0.40
1:Sv:67:ILE:HD13	1:Sv:67:ILE:HA	1.93	0.40
1:Sw:511:GLU:HB2	1:Sy:428:GLY:O	2.21	0.40
2:T1:174:PRO:HB3	2:T1:197:TYR:HE2	1.86	0.40
2:T3:100:ARG:NH1	2:T3:155:ASN:O	2.54	0.40
2:T4:96:VAL:HG11	2:T4:109:PHE:HZ	1.86	0.40
2:T5:7:LYS:HD3	2:T9:39:TYR:CD1	2.57	0.40
2:T7:26:ASP:O	2:T7:30:LYS:HG3	2.21	0.40
2:T9:181:ILE:HD12	2:T9:272:MET:HB2	2.03	0.40
2:TG:110:ILE:HG22	2:TG:145:LYS:HG3	2.03	0.40
2:TH:50:VAL:C	2:TH:52:ASN:N	2.79	0.40
2:Td:106:CYS:HB2	2:Td:149:ARG:NE	2.37	0.40
2:Td:152:SER:O	2:Td:158:SER:HA	2.21	0.40
2:Td:228:SER:C	2:Td:256:ILE:HD12	2.46	0.40
2:Ti:50:VAL:C	2:Ti:52:ASN:N	2.80	0.40
3:UM:55:ALA:O	3:UM:59:VAL:HG23	2.21	0.40
3:Vs:4:LEU:HD21	4:Xo:357:SER:OG	2.21	0.40
3:Vs:162:ASP:OD2	3:Vs:166:HIS:NE2	2.48	0.40
3:Vs:172:SER:O	4:Xk:340:VAL:HG22	2.22	0.40
3:Vt:4:LEU:HD22	4:Xj:356:TYR:CD2	2.56	0.40
3:Vu:199:GLN:HG2	3:Vu:201:VAL:HG23	2.03	0.40
4:WI:558:ASP:N	4:WI:559:PRO:HD3	2.36	0.40
4:WJ:194:LYS:HA	4:WJ:199:GLU:H	1.87	0.40
4:WJ:261:ARG:HH21	4:WJ:299:ILE:HD13	1.85	0.40
4:WJ:320:LEU:HA	4:WJ:357:SER:CB	2.52	0.40
4:WK:14:GLY:HA3	5:YC:929:TYR:CE1	2.56	0.40
4:WK:19:LEU:HB2	5:YC:992:PRO:O	2.20	0.40
4:WK:172:GLN:HG2	4:WK:173:GLY:H	1.85	0.40
4:WK:290:SER:HB2	4:WK:370:HIS:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:342:CYS:HB3	4:WK:349:TRP:CH2	2.57	0.40
4:WK:505:ASP:O	4:WK:512:PRO:HA	2.22	0.40
4:Wj:36:GLU:CD	4:Wj:50:LYS:HZ2	2.30	0.40
4:Wj:144:GLU:N	4:Wj:144:GLU:OE1	2.55	0.40
4:Wj:290:SER:HB3	4:Wj:370:HIS:CE1	2.57	0.40
4:Wk:109:LEU:HB3	4:Wk:124:VAL:HG23	2.02	0.40
4:Wk:181:PHE:HE2	4:Wk:246:THR:HB	1.86	0.40
4:Wk:478:TRP:CZ3	4:Wk:600:ARG:HB2	2.56	0.40
4:Wk:530:ALA:HA	4:Wo:580:HIS:CE1	2.57	0.40
4:Wl:18:TYR:CD2	5:YX:1003:GLN:HG2	2.56	0.40
4:Wm:261:ARG:HH21	4:Wm:299:ILE:HD13	1.86	0.40
4:Wn:400:ILE:HD12	4:Wn:400:ILE:HA	1.94	0.40
4:Wn:502:ASN:HB2	4:Wn:515:THR:O	2.20	0.40
4:Wo:408:VAL:HG12	4:Wo:409:SER:H	1.85	0.40
4:XI:117:ILE:H	4:XI:117:ILE:HG13	1.54	0.40
4:XJ:113:SER:OG	4:XJ:114:GLY:N	2.53	0.40
4:XJ:266:LEU:HA	4:XJ:377:HIS:O	2.22	0.40
4:XJ:326:MET:HE1	4:XK:263:ILE:HA	2.04	0.40
4:XK:490:TRP:CD1	4:XK:516:ALA:HA	2.57	0.40
4:Xj:30:PHE:HE2	4:Xn:26:ILE:HG13	1.85	0.40
4:Xk:263:ILE:HG22	4:Xk:381:ILE:HB	2.03	0.40
4:XI:73:SER:HB3	4:XI:101:THR:HG22	2.04	0.40
4:XI:469:PRO:HD3	4:XI:598:TRP:CE2	2.56	0.40
4:Xn:135:LEU:HA	4:Xn:144:GLU:O	2.21	0.40
4:Xo:136:VAL:O	4:Xo:143:TRP:HA	2.21	0.40
5:YC:349:LEU:HD22	5:YC:349:LEU:HA	1.76	0.40
5:YC:799:GLU:HB3	5:YC:810:THR:HG23	2.04	0.40
5:YC:838:ILE:H	5:YC:838:ILE:HG12	1.73	0.40
5:YX:238:TYR:CE1	5:YX:515:ASN:HB2	2.56	0.40
5:YX:302:ALA:H	5:YX:350:PHE:HE2	1.69	0.40
5:YX:408:HIS:O	5:YX:410:GLU:N	2.54	0.40
5:YX:602:TYR:CE2	5:YX:604:VAL:HB	2.57	0.40
5:YY:59:LEU:HD21	5:YY:69:PHE:CE1	2.56	0.40
5:YY:240:GLN:OE1	5:YY:519:LYS:HB3	2.21	0.40
5:YY:461:THR:HA	5:YY:464:LYS:HG2	2.02	0.40
5:YY:975:ASN:HA	5:YY:981:GLN:HG3	2.03	0.40
5:Yc:33:TYR:HE2	5:Yc:35:PHE:CZ	2.40	0.40
5:Yc:217:GLN:HG2	5:Yc:218:THR:HG23	2.03	0.40
5:Yc:444:SER:HB2	5:Yc:512:PRO:HG3	2.03	0.40
5:Yc:605:ARG:NE	5:Yc:606:ASP:OD1	2.54	0.40
5:Yc:912:ILE:HD11	5:Yc:914:ASN:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:923:SER:OG	5:Yx:986:ARG:HG2	2.20	0.40
5:Yy:300:LEU:HG	5:Yy:301:PRO:HD3	2.02	0.40
5:Yy:384:GLU:O	5:Yy:385:THR:HG22	2.21	0.40
5:Yy:912:ILE:HG23	6:aa:329:ASN:HB2	2.03	0.40
5:Yy:963:TYR:CG	5:Yy:964:PRO:HD2	2.56	0.40
6:ZE:89:VAL:HG12	6:ZE:209:VAL:HG22	2.04	0.40
6:ZZ:36:THR:N	6:ZZ:277:ASN:OD1	2.49	0.40
6:ZZ:151:ASP:N	6:ZZ:151:ASP:OD1	2.54	0.40
6:Zc:21:MET:HG3	6:Zc:247:ILE:CG1	2.50	0.40
6:Zc:97:ASP:O	6:Zc:103:PRO:HB3	2.22	0.40
6:aE:28:ILE:HG22	6:aE:83:PRO:HG3	2.03	0.40
6:aZ:140:GLY:HA2	6:aZ:163:SER:OG	2.20	0.40
6:aa:55:GLY:N	6:ac:5:SER:O	2.37	0.40
6:ac:274:ILE:HD11	6:ac:330:ILE:HD12	2.04	0.40
7:b0:566:ARG:HA	7:b0:569:LYS:HE2	2.03	0.40
7:b3:254:ILE:HD11	7:b3:261:ARG:HB2	2.03	0.40
7:b4:46:ASN:OD1	7:b4:47:GLU:N	2.54	0.40
7:b5:20:VAL:HG21	7:b5:46:ASN:HD21	1.87	0.40
7:b5:410:PRO:O	7:b5:413:THR:HG22	2.21	0.40
7:b8:271:TYR:OH	7:cF:549:ASP:OD2	2.28	0.40
7:b8:505:LEU:HD12	7:b8:505:LEU:HA	1.78	0.40
7:b9:36:GLY:O	7:b9:82:ARG:NH1	2.47	0.40
7:b9:244:TYR:CZ	7:b9:266:LYS:HD2	2.57	0.40
7:bN:614:THR:O	7:bN:618:ILE:HG12	2.21	0.40
7:bO:225:LEU:HD23	7:bO:226:TYR:CZ	2.57	0.40
7:bP:283:VAL:HB	7:bP:291:GLN:HB3	2.03	0.40
7:bP:456:TYR:O	7:bP:503:ILE:HG23	2.20	0.40
7:bQ:538:ASP:N	7:bQ:538:ASP:OD1	2.53	0.40
7:bR:42:LYS:HE3	7:bR:42:LYS:HB3	1.86	0.40
7:bR:378:CYS:SG	7:bR:469:PRO:HB3	2.60	0.40
7:cA:29:LEU:O	7:cA:80:VAL:HA	2.21	0.40
7:cA:548:PHE:HD1	7:cA:553:VAL:HG22	1.86	0.40
7:cB:454:TYR:HB2	7:cB:506:ALA:HB2	2.03	0.40
7:cE:451:ASP:OD2	7:cE:470:LEU:HB3	2.22	0.40
7:cF:16:GLN:HE21	7:cF:16:GLN:HB2	1.53	0.40
7:cF:650:ASP:C	7:cF:652:ASP:H	2.28	0.40
7:cG:57:PRO:HB2	7:cG:62:ALA:HA	2.02	0.40
7:cJ:644:ALA:O	7:cJ:645:THR:OG1	2.31	0.40
7:cK:35:TRP:O	7:cK:54:PHE:HA	2.21	0.40
7:cL:313:ASP:OD1	7:cL:313:ASP:N	2.54	0.40
7:cL:572:LEU:HD12	7:cL:572:LEU:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cM:252:LEU:HD22	7:cM:335:SER:O	2.21	0.40
7:cP:313:ASP:N	7:cP:313:ASP:OD1	2.54	0.40
7:cP:470:LEU:HD21	7:cP:525:VAL:HG11	2.03	0.40
7:cP:539:LYS:HD3	7:cP:550:ARG:HH21	1.86	0.40
7:dS:129:GLY:HA2	7:dS:146:PRO:HD3	2.03	0.40
7:dT:26:THR:HG23	7:dT:370:VAL:HA	2.03	0.40
7:dU:18:THR:HG22	19:sT:13:UNK:O	2.20	0.40
7:dU:368:VAL:HG12	7:dU:370:VAL:HG13	2.02	0.40
7:dU:372:LEU:HD12	7:dU:372:LEU:HA	1.84	0.40
7:dU:414:VAL:HG23	7:dU:422:ALA:HB1	2.02	0.40
7:dV:473:ASP:O	7:dV:477:LEU:HD13	2.22	0.40
7:dW:368:VAL:HG12	7:dW:370:VAL:HG13	2.04	0.40
8:eB:547:SER:C	8:eB:549:GLY:H	2.30	0.40
8:eW:35:GLU:HG3	8:fr:264:GLN:HB3	2.03	0.40
8:eW:525:ASN:HB3	8:eW:526:PRO:HD2	2.01	0.40
8:fr:192:ILE:H	8:fr:192:ILE:HG12	1.47	0.40
8:fr:484:MET:HG2	8:fr:625:SER:O	2.22	0.40
8:fs:10:LEU:O	8:fs:11:THR:C	2.64	0.40
9:gG:34:LEU:HB2	12:iD:163:THR:HB	2.03	0.40
9:gH:485:ASP:OD1	9:gH:485:ASP:N	2.53	0.40
11:hl:80:ASP:O	11:hl:84:LYS:HG3	2.21	0.40
11:ht:93:ALA:O	11:ht:100:THR:OG1	2.32	0.40
12:iC:87:ILE:HG21	12:iC:146:LEU:HD22	2.03	0.40
12:iF:12:LEU:HD23	12:iF:35:ILE:HG21	2.02	0.40
12:iF:100:LYS:HA	16:o6:286:VAL:HG13	2.03	0.40
13:jb:578:THR:HG21	16:pB:158:ALA:HB2	2.02	0.40
15:m2:74:GLU:HG3	15:m2:93:VAL:HB	2.03	0.40
15:m6:66:THR:HG21	16:o1:44:SER:HB3	2.03	0.40
16:o0:336:PRO:HG2	16:o6:300:ALA:HB3	2.03	0.40
16:o1:218:ASP:O	16:o1:222:ILE:HG13	2.21	0.40
16:pA:181:ILE:H	16:pA:181:ILE:HG13	1.50	0.40
16:pA:247:LYS:HG3	16:pA:248:GLY:N	2.37	0.40
17:q3:126:TYR:HA	17:q7:230:TYR:CD2	2.56	0.40
17:q4:215:MET:HE1	17:q9:99:SER:CB	2.52	0.40
17:q9:186:THR:HB	17:q9:188:LEU:HD22	2.02	0.40
1:S0:512:THR:OG1	1:S5:443:SER:N	2.43	0.40
1:S1:58:LEU:HD21	1:S1:74:LYS:C	2.47	0.40
1:S1:63:GLU:O	1:S1:67:ILE:HG12	2.21	0.40
1:S1:78:PRO:HB3	1:S2:66:VAL:HA	2.03	0.40
1:S1:321:MET:HG3	1:S2:326:ILE:HG12	2.03	0.40
1:S1:340:THR:HG22	1:S1:341:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S3:77:THR:CG2	1:S3:80:THR:H	2.35	0.40
1:S3:383:TYR:CD2	1:S3:393:PRO:HG3	2.56	0.40
1:S3:457:LEU:HD23	1:S3:477:TRP:CZ2	2.57	0.40
1:S4:253:ARG:HH22	1:S8:251:ASN:HB2	1.87	0.40
1:S5:12:GLU:HG3	1:S5:14:ARG:H	1.85	0.40
1:S5:97:LEU:HD22	1:S7:96:GLY:C	2.47	0.40
1:S5:145:SER:O	1:S5:164:LYS:HE2	2.22	0.40
1:S5:218:SER:O	1:S5:227:VAL:HG22	2.22	0.40
1:S7:66:VAL:HG21	1:S7:80:THR:HB	2.04	0.40
1:SA:354:LEU:HD11	1:SA:522:ILE:HG22	2.04	0.40
1:SA:379:ILE:HG23	1:SA:382:ARG:HG2	2.03	0.40
1:SO:233:GLN:HG3	4:XI:347:GLY:HA2	2.03	0.40
1:SO:288:ILE:HA	1:SO:294:GLN:NE2	2.37	0.40
1:SO:290:GLN:HG2	1:SP:288:ILE:HD11	2.03	0.40
1:SO:462:ASN:ND2	1:SQ:480:ARG:HD3	2.36	0.40
1:SP:218:SER:O	1:SP:227:VAL:HG22	2.21	0.40
1:SP:233:GLN:NE2	1:SP:237:ASN:OD1	2.42	0.40
1:SQ:5:THR:HA	4:WJ:196:ARG:HG3	2.03	0.40
1:SQ:365:GLY:H	1:SQ:392:LEU:HB2	1.86	0.40
1:Sv:77:THR:HG22	1:Sv:80:THR:HG23	2.03	0.40
1:Sv:77:THR:HG23	1:Sv:79:ALA:N	2.37	0.40
1:Sv:278:SER:HA	1:Sz:265:LEU:HD11	2.03	0.40
1:Sw:97:LEU:HD22	1:Sy:96:GLY:C	2.46	0.40
1:Sy:5:THR:HA	4:Wo:196:ARG:HD2	2.02	0.40
1:Sy:457:LEU:HD12	1:Sy:457:LEU:HA	1.98	0.40
2:T4:128:ASP:HB2	2:T4:158:SER:HB3	2.02	0.40
2:T6:111:ASN:O	2:T6:143:TYR:HA	2.20	0.40
2:Td:39:TYR:CG	2:Tf:7:LYS:HD3	2.57	0.40
2:Te:10:ILE:HD11	2:Te:31:ILE:HD11	2.04	0.40
2:Tg:174:PRO:HB2	2:Tg:192:PHE:HB3	2.03	0.40
3:Uu:114:VAL:HG21	3:Uu:129:VAL:HG22	2.03	0.40
3:VL:13:ARG:HA	3:VL:18:LEU:HD21	2.04	0.40
3:VN:67:VAL:HA	3:VN:217:ARG:HD3	2.03	0.40
3:Vp:94:VAL:HA	3:Vp:174:TYR:O	2.21	0.40
4:WI:260:ARG:O	4:WI:261:ARG:NH1	2.49	0.40
4:WI:312:ARG:HD3	4:WI:317:LEU:HD12	2.03	0.40
4:WI:518:GLY:N	4:WK:594:THR:OG1	2.55	0.40
4:WJ:186:TYR:OH	4:WJ:191:ILE:HB	2.22	0.40
4:WJ:500:ALA:HB1	4:WJ:514:HIS:HE1	1.85	0.40
4:WK:58:GLN:OE1	4:WK:58:GLN:N	2.50	0.40
4:Wk:544:VAL:HA	4:Wo:569:TYR:CD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Wl:12:ASP:OD2	5:YX:984:SER:OG	2.22	0.40
4:Wm:30:PHE:O	4:Wm:34:TYR:HB2	2.22	0.40
4:Wm:138:CYS:SG	4:Wo:99:PHE:HA	2.61	0.40
4:Wm:415:ASP:HB2	4:Wm:440:GLN:NE2	2.36	0.40
4:Wn:155:THR:O	4:Wn:156:SER:OG	2.32	0.40
4:Wo:58:GLN:H	4:Wo:58:GLN:CD	2.29	0.40
4:Xl:401:ASP:O	4:Xl:404:ASP:HB3	2.21	0.40
4:Xl:464:VAL:HG21	4:XJ:422:LEU:HD21	2.04	0.40
4:XJ:150:GLN:O	4:XJ:151:ILE:HG13	2.22	0.40
4:XK:397:ASP:HA	4:XK:400:ILE:HG22	2.02	0.40
4:Xj:528:GLU:HB2	4:Xj:531:ASN:OD1	2.21	0.40
4:Xk:310:GLU:OE2	4:Xm:258:TYR:OH	2.26	0.40
4:Xl:64:TRP:CE3	4:Xl:64:TRP:HA	2.57	0.40
4:Xn:490:TRP:CD1	4:Xn:516:ALA:HA	2.57	0.40
5:YC:93:ASP:N	5:YC:93:ASP:OD1	2.45	0.40
5:YC:362:LYS:O	5:YC:382:GLU:HG3	2.21	0.40
5:YC:557:VAL:HG22	5:YC:570:MET:HG2	2.02	0.40
5:YC:674:TYR:HB2	8:f9:36:TRP:CD1	2.56	0.40
5:YC:731:SER:OG	8:f9:333:ARG:NH2	2.42	0.40
5:YC:933:ILE:HG22	5:YC:954:GLU:O	2.21	0.40
5:YX:205:TYR:CE1	5:YX:231:TYR:HB2	2.55	0.40
5:YX:255:TYR:H	5:YX:255:TYR:HD1	1.67	0.40
5:YX:587:PHE:O	5:YX:595:ILE:HG12	2.21	0.40
5:YX:701:TRP:O	5:YX:702:GLU:HB2	2.21	0.40
5:YX:745:LYS:H	5:YX:745:LYS:HG2	1.55	0.40
5:YX:923:SER:OG	5:YX:986:ARG:HG2	2.22	0.40
5:YX:948:THR:HB	5:YX:950:GLU:OE1	2.21	0.40
5:YX:1015:ASN:CB	5:YX:1025:PRO:HB3	2.51	0.40
5:YY:425:ARG:CZ	5:YY:449:LYS:HE2	2.51	0.40
5:YY:544:VAL:HB	5:YY:546:GLU:CD	2.46	0.40
5:YY:680:GLY:HA3	8:fs:6:VAL:HG11	2.03	0.40
5:YY:769:ASP:OD2	5:YY:810:THR:OG1	2.34	0.40
5:YY:856:ASN:CB	8:eW:495:PRO:HB3	2.51	0.40
5:Yc:20:GLN:HG3	5:Yc:70:ASP:OD1	2.22	0.40
5:Yc:140:ASP:HB3	5:Yc:589:LYS:HD2	2.03	0.40
5:Yc:164:SER:O	5:Yc:167:ILE:HG12	2.21	0.40
5:Yc:706:SER:HB2	5:Yc:728:GLU:CD	2.47	0.40
5:Yx:302:ALA:O	5:Yx:304:VAL:HG22	2.22	0.40
5:Yx:314:THR:OG1	5:Yx:315:ASP:N	2.55	0.40
5:Yx:420:THR:OG1	5:Yx:421:GLU:N	2.54	0.40
5:Yx:674:TYR:CD2	8:fr:33:LEU:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:9:THR:O	5:Yy:10:SER:C	2.64	0.40
5:Yy:516:TRP:HE3	5:Yy:523:ARG:HG2	1.87	0.40
5:Yy:881:ARG:C	8:fS:341:THR:HG21	2.46	0.40
6:Za:292:ALA:HB1	6:Za:297:TYR:CE2	2.56	0.40
6:Zb:41:PHE:HA	6:Zb:271:GLN:O	2.22	0.40
6:Zc:210:VAL:HG21	6:Zc:242:VAL:HG21	2.04	0.40
6:aE:257:TYR:HB3	6:aE:296:TYR:CD2	2.57	0.40
6:aZ:320:MET:HE3	6:aZ:320:MET:HB2	1.83	0.40
6:ac:280:GLU:OE2	6:ac:292:ALA:HA	2.22	0.40
7:b3:598:LEU:HD23	7:b3:598:LEU:HA	1.93	0.40
7:b4:578:ALA:N	7:b4:581:ARG:HH21	2.18	0.40
7:b5:402:ASP:O	7:b5:558:ASN:ND2	2.55	0.40
7:b5:554:ARG:HD3	7:b5:554:ARG:O	2.22	0.40
7:b6:33:PHE:HA	7:b6:61:THR:HG23	2.02	0.40
7:b6:453:ASN:HB2	7:b6:506:ALA:HB3	2.04	0.40
7:b8:99:ILE:HD12	7:b8:150:ILE:HG21	2.03	0.40
7:b8:363:ALA:HA	7:b8:400:ARG:HD2	2.02	0.40
7:bN:121:VAL:HG13	7:bN:166:ASN:HB3	2.03	0.40
7:bN:494:TYR:CE1	7:dS:569:LYS:HG3	2.56	0.40
7:bP:378:CYS:SG	7:bP:469:PRO:HB3	2.61	0.40
7:bP:455:LYS:HB2	7:bP:470:LEU:HD13	2.02	0.40
7:bQ:79:ARG:HD2	7:bQ:370:VAL:CG1	2.52	0.40
7:bQ:383:LEU:HD11	7:bQ:436:TYR:CD2	2.55	0.40
7:bQ:514:ARG:HH22	7:dV:366:GLU:CD	2.28	0.40
7:cA:51:VAL:HG22	7:cA:65:PHE:HZ	1.87	0.40
7:cA:100:GLU:OE1	7:cA:186:LYS:NZ	2.54	0.40
7:cA:373:PHE:HB2	7:cA:405:VAL:HA	2.04	0.40
7:cC:46:ASN:OD1	7:cC:47:GLU:N	2.55	0.40
7:cC:584:PHE:O	7:cC:588:THR:OG1	2.36	0.40
7:cE:404:LEU:HD22	7:cE:404:LEU:HA	1.81	0.40
7:cF:441:PHE:CZ	7:cF:443:ILE:HD11	2.56	0.40
7:cI:42:LYS:HE3	7:cI:42:LYS:HB3	1.97	0.40
7:cJ:221:GLY:O	7:cJ:325:ALA:HA	2.21	0.40
7:cJ:463:ASP:HB3	7:cO:308:ASN:HB2	2.03	0.40
7:cJ:504:LYS:HG2	7:cJ:505:LEU:N	2.36	0.40
7:cJ:571:ARG:HA	7:cJ:571:ARG:HD3	1.92	0.40
7:cK:95:ILE:HD13	7:cK:213:ASN:HB2	2.04	0.40
7:cM:69:MET:O	7:cM:73:GLN:HG2	2.21	0.40
7:cM:252:LEU:HG	7:cM:263:SER:HB3	2.03	0.40
7:cO:41:ILE:H	7:cO:41:ILE:HG12	1.73	0.40
7:cO:69:MET:O	7:cO:73:GLN:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:cO:413:THR:OG1	7:cO:425:ASN:HB3	2.21	0.40
7:cP:456:TYR:CZ	7:cP:465:ASN:HB3	2.57	0.40
7:cP:607:VAL:HG12	7:cP:612:ASN:HD21	1.85	0.40
7:dS:315:PHE:CE2	7:dS:325:ALA:HB3	2.57	0.40
7:dV:205:MET:HE2	7:dV:205:MET:HB3	1.95	0.40
7:dW:18:THR:HG22	19:sU:13:UNK:O	2.21	0.40
7:dZ:33:PHE:HD2	7:dZ:82:ARG:HG2	1.86	0.40
7:dZ:222:VAL:HG13	7:dZ:325:ALA:HB2	2.04	0.40
8:eB:499:ILE:HG13	8:eB:602:ILE:HB	2.04	0.40
8:eU:21:PHE:HB3	8:fR:66:TYR:CE1	2.57	0.40
8:eU:412:ASN:HB3	8:eU:486:ARG:HH12	1.86	0.40
8:eW:12:ARG:HB3	8:eW:13:THR:H	1.54	0.40
8:eW:377:LYS:HA	8:eW:378:PRO:HD3	1.96	0.40
8:f9:102:SER:OG	8:f9:192:ILE:O	2.32	0.40
8:fA:572:TYR:CE2	8:fA:574:GLY:HA3	2.57	0.40
8:fB:174:ARG:HB3	8:fB:271:GLU:HG2	2.02	0.40
8:fW:547:SER:C	8:fW:549:GLY:H	2.28	0.40
8:fr:252:LEU:H	8:fr:252:LEU:HD23	1.86	0.40
8:fr:339:CYS:HB2	8:fr:344:ASP:HB3	2.03	0.40
8:fs:80:MET:C	8:fs:82:THR:H	2.29	0.40
9:gG:283:GLN:HB2	9:gG:323:ARG:NH2	2.36	0.40
9:gH:47:ILE:HG23	12:iF:123:PRO:HD3	2.02	0.40
11:h1:147:ASN:HB3	11:hq:63:ASP:HB3	2.03	0.40
11:he:64:ARG:HH12	11:hf:94:GLY:C	2.30	0.40
11:hg:53:PHE:HD1	11:hg:53:PHE:HA	1.81	0.40
11:hk:8:ARG:HE	11:hk:8:ARG:HB2	1.72	0.40
11:hk:42:PRO:HB2	11:hk:43:ALA:H	1.64	0.40
11:hl:118:ARG:HA	11:hl:118:ARG:HD2	1.84	0.40
11:hp:23:VAL:HG22	11:hp:36:CYS:SG	2.61	0.40
11:hq:1:MET:HE2	11:hr:120:ALA:HB1	2.04	0.40
11:hs:56:ARG:HB3	11:hs:56:ARG:HH11	1.87	0.40
11:hs:85:PHE:HB3	11:hs:137:VAL:HG21	2.04	0.40
11:hu:132:LEU:HD12	11:hu:159:LEU:HB3	2.03	0.40
11:hv:132:LEU:HD12	11:hv:132:LEU:HA	1.92	0.40
15:m1:57:LEU:HD12	15:m1:57:LEU:HA	1.85	0.40
16:o2:213:PRO:HB3	16:o2:219:LEU:HA	2.03	0.40
17:q3:153:ARG:NH2	17:q7:182:GLN:O	2.53	0.40
1:S0:8:HIS:ND1	1:S0:8:HIS:O	2.55	0.40
1:S0:77:THR:HG22	1:S0:80:THR:HG23	2.03	0.40
1:S0:95:TYR:HE1	1:S7:99:ARG:HD2	1.86	0.40
1:S0:230:LEU:HB2	1:S5:220:SER:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:343:VAL:HG21	1:S1:374:LEU:HD12	2.03	0.40
1:S1:493:GLU:H	1:S1:493:GLU:CD	2.29	0.40
1:S2:188:GLN:N	1:S2:188:GLN:OE1	2.55	0.40
1:S4:107:ILE:HD12	1:S4:107:ILE:HA	1.95	0.40
1:S4:213:TYR:HB2	1:S6:203:THR:O	2.22	0.40
1:S4:240:ASN:HB3	1:S4:243:VAL:HG22	2.04	0.40
1:S4:333:THR:OG1	1:S4:335:ASN:OD1	2.26	0.40
1:S4:452:GLY:HA2	1:S8:482:TYR:CD2	2.57	0.40
1:S5:176:ILE:HG12	1:S5:177:ALA:N	2.35	0.40
1:S5:511:GLU:HB3	1:S5:513:ARG:HH11	1.87	0.40
1:SA:347:MET:HE3	1:Sw:347:MET:HB3	2.04	0.40
1:SO:139:ASN:HB3	1:SQ:143:LYS:HG2	2.02	0.40
1:SP:162:PRO:O	1:SP:166:GLN:HG3	2.22	0.40
1:SQ:80:THR:O	1:SQ:83:THR:HG22	2.21	0.40
1:SQ:265:LEU:HB3	1:SQ:282:ALA:HB2	2.03	0.40
1:SQ:383:TYR:CE1	1:SQ:393:PRO:HG3	2.57	0.40
1:Sx:66:VAL:HG21	1:Sx:80:THR:HB	2.04	0.40
1:Sx:212:PRO:HB3	1:Sz:199:VAL:HA	2.04	0.40
2:T1:63:ALA:N	2:T2:82:GLY:O	2.55	0.40
2:T6:277:LYS:NZ	2:T8:281:THR:O	2.32	0.40
2:T8:1:MET:HG2	2:T8:70:HIS:CE1	2.57	0.40
2:TG:82:GLY:N	2:TG:106:CYS:O	2.39	0.40
2:TH:88:ASP:CG	2:TH:113:ASN:HD21	2.30	0.40
2:Td:110:ILE:HD13	2:Tf:149:ARG:NH1	2.36	0.40
2:Te:63:ALA:N	2:Tg:82:GLY:O	2.55	0.40
3:UN:217:ARG:HE	3:UN:219:ALA:C	2.29	0.40
3:Uq:61:ASN:HA	3:Us:188:PRO:HB3	2.03	0.40
3:Us:7:LYS:HA	3:Us:7:LYS:HD2	1.91	0.40
3:VM:10:VAL:HG11	3:VN:10:VAL:HG11	2.04	0.40
3:Vq:125:PHE:O	3:Vq:129:VAL:HG23	2.22	0.40
3:Vs:90:PHE:CE2	3:Vs:129:VAL:HG21	2.56	0.40
4:WI:334:ALA:HB1	4:WI:338:ASP:N	2.37	0.40
4:WJ:312:ARG:HB2	4:WJ:382:ASN:HB2	2.02	0.40
4:Wj:293:PHE:CE2	4:Wj:366:PRO:HB2	2.57	0.40
4:Wj:427:LYS:HE2	4:Wj:427:LYS:HB2	1.94	0.40
4:Wk:67:SER:HA	4:Wk:94:ARG:HB2	2.04	0.40
4:Wn:213:GLY:H	4:Wn:232:LEU:HA	1.86	0.40
4:Wn:399:ILE:O	4:Wn:403:THR:HG23	2.21	0.40
4:Wo:23:GLY:C	4:Wo:25:LYS:H	2.28	0.40
4:XI:86:VAL:HG13	4:XI:87:ASN:N	2.37	0.40
4:XI:326:MET:HE3	4:XI:326:MET:HB2	1.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XJ:139:ALA:HB3	4:XJ:140:PRO:HD3	2.03	0.40
4:XJ:177:PHE:HD2	4:XJ:230:ILE:HD11	1.86	0.40
4:XJ:311:VAL:HG13	4:XJ:320:LEU:HB2	2.03	0.40
4:XK:86:VAL:HG13	4:XK:87:ASN:N	2.36	0.40
4:XK:357:SER:HB3	4:XK:358:VAL:H	1.62	0.40
4:XK:479:LYS:HB2	4:XK:601:ILE:HD13	2.03	0.40
4:XK:502:ASN:HB2	4:XK:515:THR:O	2.22	0.40
4:Xj:175:THR:O	4:Xj:231:ARG:HG3	2.22	0.40
4:Xj:183:GLY:HA3	4:Xl:254:TRP:HH2	1.86	0.40
4:Xj:338:ASP:HB3	4:Xj:349:TRP:CD1	2.56	0.40
4:Xj:410:GLN:NE2	4:Xj:444:ASN:HA	2.36	0.40
4:Xj:483:GLN:HB3	4:Xl:491:ASN:HA	2.03	0.40
4:Xk:149:LYS:HG2	4:Xk:150:GLN:N	2.36	0.40
4:Xk:181:PHE:HE2	4:Xk:246:THR:HB	1.87	0.40
4:Xl:126:ILE:HD13	4:Xl:133:LEU:HD11	2.04	0.40
4:Xm:281:TYR:HD2	4:Xm:295:ALA:HB2	1.87	0.40
4:Xm:292:PRO:HA	4:Xm:368:ILE:HG22	2.02	0.40
4:Xo:192:ARG:HB2	4:Xo:245:GLU:H	1.85	0.40
4:Xo:274:THR:OG1	4:Xo:275:SER:N	2.55	0.40
4:Xo:408:VAL:HG12	4:Xo:409:SER:H	1.85	0.40
5:YC:348:ARG:H	5:YC:348:ARG:HG2	1.36	0.40
5:YC:509:TYR:HB2	6:Zb:175:ASP:OD2	2.21	0.40
5:YX:185:LYS:HB3	5:YX:186:ASP:H	1.79	0.40
5:YX:366:TYR:CD1	5:YX:380:ILE:HD11	2.57	0.40
5:YX:554:ASP:C	5:YX:556:LEU:H	2.30	0.40
5:YX:744:TYR:OH	5:YX:884:HIS:ND1	2.49	0.40
5:YY:93:ASP:N	5:YY:93:ASP:OD1	2.46	0.40
5:YY:360:ASN:CB	5:YY:361:PRO:HD2	2.51	0.40
5:YY:574:LYS:CG	5:YY:609:GLU:HG2	2.51	0.40
5:YY:856:ASN:HB3	8:eW:495:PRO:HB3	2.03	0.40
5:Yc:307:ILE:HG23	5:Yc:391:ARG:HH12	1.86	0.40
5:Yc:371:ILE:HG13	5:Yc:372:CYS:N	2.37	0.40
5:Yc:628:HIS:O	5:Yc:628:HIS:ND1	2.55	0.40
5:Yc:923:SER:HB2	5:Yc:986:ARG:NH1	2.37	0.40
5:Yc:1012:LEU:HB2	5:Yc:1027:GLN:OE1	2.21	0.40
5:Yx:65:ASN:OD1	5:Yx:65:ASN:N	2.48	0.40
5:Yx:446:SER:HB2	5:Yx:485:TYR:CZ	2.57	0.40
5:Yx:455:VAL:HG23	5:Yx:472:LYS:HB3	2.04	0.40
5:Yx:548:ILE:HA	5:Yx:549:PRO:HD3	1.88	0.40
5:Yx:578:PHE:CE2	5:Yx:582:ALA:HB2	2.57	0.40
5:Yy:86:ALA:HB3	5:Yy:89:PHE:HD2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:206:GLN:OE1	5:Yy:206:GLN:N	2.52	0.40
5:Yy:238:TYR:HE2	5:Yy:517:SER:HB3	1.85	0.40
5:Yy:376:PHE:HB3	5:Yy:405:VAL:HA	2.03	0.40
5:Yy:633:SER:OG	5:Yy:635:GLU:OE1	2.28	0.40
5:Yy:689:LEU:HD21	8:fS:78:SER:CB	2.51	0.40
5:Yy:730:ARG:NH2	5:Yy:733:ASP:OD2	2.55	0.40
6:ZE:97:ASP:O	6:ZE:103:PRO:HB3	2.21	0.40
6:aa:320:MET:HE3	6:aa:320:MET:HB2	1.84	0.40
7:b0:12:GLU:HG3	7:cD:548:PHE:CE2	2.57	0.40
7:b0:351:THR:HG22	7:b0:354:ASP:OD2	2.21	0.40
7:b3:557:PHE:CE1	7:b3:629:ILE:HD11	2.56	0.40
7:b4:220:PRO:HG2	7:b4:338:LEU:HD11	2.04	0.40
7:b4:486:GLN:NE2	11:hj:11:GLU:OE1	2.55	0.40
7:b4:536:TYR:HD1	7:b4:536:TYR:HA	1.65	0.40
7:b4:572:LEU:HD12	7:b4:572:LEU:HA	1.79	0.40
7:b5:135:ASP:N	7:b5:139:LYS:O	2.55	0.40
7:b5:157:VAL:HG23	7:b5:159:GLU:H	1.86	0.40
7:b6:220:PRO:HG2	7:b6:338:LEU:HD11	2.04	0.40
7:b6:510:ARG:HG2	7:b6:511:GLN:H	1.87	0.40
7:b9:222:VAL:HG22	7:b9:325:ALA:HB2	2.02	0.40
7:bN:116:ILE:H	7:bN:116:ILE:HG12	1.57	0.40
7:bP:561:LYS:HB3	7:cO:10:LEU:HD13	2.03	0.40
7:bY:74:TYR:OH	7:bY:473:ASP:OD2	2.35	0.40
7:cB:12:GLU:OE1	7:cB:13:THR:N	2.55	0.40
7:cD:28:ALA:HB2	7:cD:370:VAL:HG21	2.02	0.40
7:cD:535:LEU:HD23	7:cD:535:LEU:HA	1.92	0.40
7:cF:115:LYS:HD2	7:cF:115:LYS:HA	1.96	0.40
7:cF:302:LYS:HD3	7:cF:302:LYS:HA	1.94	0.40
7:cG:42:LYS:HE3	7:cG:42:LYS:HB3	1.92	0.40
7:cG:344:LEU:HA	7:cG:344:LEU:HD22	1.80	0.40
7:cI:116:ILE:HD12	7:cI:171:ILE:HG12	2.03	0.40
7:cL:130:LYS:HE2	7:cL:130:LYS:HB2	1.98	0.40
7:cL:571:ARG:HA	7:cL:571:ARG:HD3	1.91	0.40
7:cM:389:VAL:O	7:cM:393:VAL:HG23	2.22	0.40
7:cN:197:GLU:HB2	7:cN:199:GLU:HG3	2.03	0.40
7:cP:538:ASP:OD1	7:cP:538:ASP:N	2.55	0.40
7:cP:559:MET:HE2	7:cP:559:MET:HB2	1.93	0.40
7:dS:210:PHE:CE2	7:dS:214:LEU:HD11	2.57	0.40
7:dU:296:SER:O	7:dU:311:ILE:HG13	2.22	0.40
7:dW:383:LEU:HD11	7:dW:436:TYR:HE1	1.87	0.40
7:dZ:397:GLY:HA2	7:dZ:403:CYS:SG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f9:10:LEU:HD13	8:f9:12:ARG:NE	2.37	0.40
8:f9:275:THR:OG1	8:f9:276:ASN:N	2.54	0.40
8:f9:305:ASN:OD1	8:f9:305:ASN:N	2.55	0.40
8:fA:104:SER:O	8:fA:316:GLY:HA2	2.22	0.40
8:fA:191:ASN:OD1	8:fA:191:ASN:N	2.54	0.40
8:fR:110:ILE:HD11	8:fR:302:GLU:HG2	2.03	0.40
8:fR:242:GLU:OE1	8:fR:243:ILE:N	2.54	0.40
8:fR:455:PHE:O	8:fR:457:SER:N	2.52	0.40
8:fR:656:GLU:HA	8:fR:657:PRO:HD3	1.88	0.40
8:fS:336:GLN:O	8:fW:336:GLN:NE2	2.55	0.40
8:fS:609:ILE:HA	8:fS:609:ILE:HD12	1.74	0.40
8:fU:104:SER:HA	8:fU:193:ASP:CG	2.46	0.40
8:fW:199:LEU:HD11	8:fW:268:ILE:HG23	2.03	0.40
8:fW:525:ASN:HB3	8:fW:526:PRO:HD2	2.04	0.40
8:fW:565:GLU:OE1	8:fW:571:PRO:HD3	2.22	0.40
8:fW:586:ARG:O	8:fW:588:LYS:N	2.53	0.40
8:fr:488:VAL:HG23	8:fr:621:ILE:HG13	2.03	0.40
8:fr:645:ASP:OD1	8:fr:645:ASP:N	2.41	0.40
8:fs:328:LEU:HD22	8:fs:347:THR:HG22	2.02	0.40
8:fs:493:LYS:HG2	8:fs:494:THR:O	2.22	0.40
9:gE:2:GLU:O	9:gE:3:MET:C	2.64	0.40
9:gG:57:VAL:HG12	9:gG:96:VAL:HB	2.03	0.40
9:gG:219:LYS:HB2	9:gG:219:LYS:NZ	2.36	0.40
9:gG:420:THR:HG23	9:gG:434:THR:HA	2.02	0.40
11:hK:82:ARG:NH1	11:hK:138:GLY:HA2	2.37	0.40
11:hM:116:TYR:CE1	11:hM:123:VAL:HG22	2.55	0.40
11:he:133:TRP:CZ2	11:ht:48:LYS:HB2	2.57	0.40
11:hi:19:ASN:OD1	11:hi:19:ASN:N	2.49	0.40
11:hx:56:ARG:HB3	11:hx:56:ARG:HH11	1.86	0.40
12:iC:204:ILE:O	12:iC:323:LYS:NZ	2.35	0.40
12:iC:341:GLU:HB2	12:iC:356:TYR:HB2	2.04	0.40
13:ja:585:ASP:O	13:ja:586:ALA:C	2.64	0.40
14:k3:141:ARG:HB3	14:k3:142:LYS:H	1.59	0.40
14:k4:1:MET:O	14:k4:4:THR:HG22	2.21	0.40
14:k8:127:ASP:O	14:k8:129:ASN:N	2.55	0.40
15:mT:101:ASP:O	15:mT:103:THR:OG1	2.34	0.40
16:o0:150:LEU:HD12	16:o0:150:LEU:HA	1.91	0.40
16:o1:96:ARG:NE	16:o1:100:SER:OG	2.55	0.40
16:o2:26:LYS:HA	16:o2:26:LYS:NZ	2.36	0.40
16:pB:38:PHE:HE1	16:pB:222:ILE:HD11	1.86	0.40
17:q7:194:ASP:OD1	17:q7:194:ASP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:q9:219:HIS:O	17:q9:243:PHE:CD2	2.73	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	S0	524/527 (99%)	488 (93%)	34 (6%)	2 (0%)	30	63
1	S1	524/527 (99%)	498 (95%)	22 (4%)	4 (1%)	16	51
1	S2	524/527 (99%)	492 (94%)	31 (6%)	1 (0%)	44	73
1	S3	524/527 (99%)	488 (93%)	33 (6%)	3 (1%)	22	55
1	S4	524/527 (99%)	498 (95%)	22 (4%)	4 (1%)	16	51
1	S5	524/527 (99%)	493 (94%)	27 (5%)	4 (1%)	16	51
1	S6	524/527 (99%)	497 (95%)	25 (5%)	2 (0%)	30	63
1	S7	524/527 (99%)	495 (94%)	27 (5%)	2 (0%)	30	63
1	S8	524/527 (99%)	491 (94%)	30 (6%)	3 (1%)	22	55
1	SA	524/527 (99%)	486 (93%)	36 (7%)	2 (0%)	30	63
1	SO	524/527 (99%)	490 (94%)	31 (6%)	3 (1%)	22	55
1	SP	524/527 (99%)	485 (93%)	36 (7%)	3 (1%)	22	55
1	SQ	524/527 (99%)	485 (93%)	36 (7%)	3 (1%)	22	55
1	Sv	524/527 (99%)	497 (95%)	23 (4%)	4 (1%)	16	51
1	Sw	524/527 (99%)	491 (94%)	31 (6%)	2 (0%)	30	63
1	Sx	524/527 (99%)	498 (95%)	25 (5%)	1 (0%)	44	73
1	Sy	524/527 (99%)	491 (94%)	31 (6%)	2 (0%)	30	63
1	Sz	524/527 (99%)	489 (93%)	32 (6%)	3 (1%)	22	55
2	T1	286/288 (99%)	271 (95%)	13 (4%)	2 (1%)	19	53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	T2	286/288 (99%)	272 (95%)	12 (4%)	2 (1%)	19	53
2	T3	286/288 (99%)	271 (95%)	12 (4%)	3 (1%)	13	46
2	T4	286/288 (99%)	269 (94%)	15 (5%)	2 (1%)	19	53
2	T5	286/288 (99%)	270 (94%)	14 (5%)	2 (1%)	19	53
2	T6	286/288 (99%)	273 (96%)	11 (4%)	2 (1%)	19	53
2	T7	286/288 (99%)	268 (94%)	16 (6%)	2 (1%)	19	53
2	T8	286/288 (99%)	274 (96%)	9 (3%)	3 (1%)	13	46
2	T9	286/288 (99%)	272 (95%)	12 (4%)	2 (1%)	19	53
2	TF	286/288 (99%)	271 (95%)	13 (4%)	2 (1%)	19	53
2	TG	286/288 (99%)	268 (94%)	16 (6%)	2 (1%)	19	53
2	TH	286/288 (99%)	271 (95%)	13 (4%)	2 (1%)	19	53
2	Td	286/288 (99%)	272 (95%)	12 (4%)	2 (1%)	19	53
2	Te	286/288 (99%)	271 (95%)	13 (4%)	2 (1%)	19	53
2	Tf	286/288 (99%)	272 (95%)	12 (4%)	2 (1%)	19	53
2	Tg	286/288 (99%)	269 (94%)	14 (5%)	3 (1%)	13	46
2	Th	286/288 (99%)	271 (95%)	12 (4%)	3 (1%)	13	46
2	Ti	286/288 (99%)	272 (95%)	12 (4%)	2 (1%)	19	53
3	UL	216/219 (99%)	208 (96%)	7 (3%)	1 (0%)	25	59
3	UM	216/219 (99%)	206 (95%)	9 (4%)	1 (0%)	25	59
3	UN	216/219 (99%)	207 (96%)	8 (4%)	1 (0%)	25	59
3	Up	216/219 (99%)	206 (95%)	8 (4%)	2 (1%)	14	48
3	Uq	216/219 (99%)	208 (96%)	7 (3%)	1 (0%)	25	59
3	Ur	216/219 (99%)	204 (94%)	11 (5%)	1 (0%)	25	59
3	Us	216/219 (99%)	205 (95%)	10 (5%)	1 (0%)	25	59
3	Ut	216/219 (99%)	203 (94%)	12 (6%)	1 (0%)	25	59
3	Uu	216/219 (99%)	206 (95%)	9 (4%)	1 (0%)	25	59
3	VL	216/219 (99%)	205 (95%)	10 (5%)	1 (0%)	25	59
3	VM	216/219 (99%)	208 (96%)	7 (3%)	1 (0%)	25	59
3	VN	216/219 (99%)	205 (95%)	10 (5%)	1 (0%)	25	59
3	Vp	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	14	48
3	Vq	216/219 (99%)	206 (95%)	9 (4%)	1 (0%)	25	59

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Vr	216/219 (99%)	204 (94%)	10 (5%)	2 (1%)	14	48
3	Vs	216/219 (99%)	206 (95%)	9 (4%)	1 (0%)	25	59
3	Vt	216/219 (99%)	207 (96%)	8 (4%)	1 (0%)	25	59
3	Vu	216/219 (99%)	208 (96%)	7 (3%)	1 (0%)	25	59
4	WI	600/602 (100%)	529 (88%)	64 (11%)	7 (1%)	11	43
4	WJ	600/602 (100%)	526 (88%)	66 (11%)	8 (1%)	10	41
4	WK	600/602 (100%)	520 (87%)	74 (12%)	6 (1%)	13	46
4	Wj	600/602 (100%)	528 (88%)	64 (11%)	8 (1%)	10	41
4	Wk	600/602 (100%)	530 (88%)	63 (10%)	7 (1%)	11	43
4	Wl	600/602 (100%)	512 (85%)	80 (13%)	8 (1%)	10	41
4	Wm	600/602 (100%)	523 (87%)	67 (11%)	10 (2%)	7	37
4	Wn	600/602 (100%)	523 (87%)	71 (12%)	6 (1%)	13	46
4	Wo	600/602 (100%)	515 (86%)	79 (13%)	6 (1%)	13	46
4	XI	600/602 (100%)	536 (89%)	57 (10%)	7 (1%)	11	43
4	XJ	600/602 (100%)	511 (85%)	79 (13%)	10 (2%)	7	37
4	XK	600/602 (100%)	520 (87%)	73 (12%)	7 (1%)	11	43
4	Xj	600/602 (100%)	533 (89%)	61 (10%)	6 (1%)	13	46
4	Xk	600/602 (100%)	527 (88%)	66 (11%)	7 (1%)	11	43
4	Xl	600/602 (100%)	515 (86%)	78 (13%)	7 (1%)	11	43
4	Xm	600/602 (100%)	526 (88%)	65 (11%)	9 (2%)	8	39
4	Xn	600/602 (100%)	519 (86%)	75 (12%)	6 (1%)	13	46
4	Xo	600/602 (100%)	523 (87%)	70 (12%)	7 (1%)	11	43
5	YC	1000/1032 (97%)	785 (78%)	191 (19%)	24 (2%)	5	30
5	YX	1000/1032 (97%)	789 (79%)	189 (19%)	22 (2%)	5	32
5	YY	1000/1032 (97%)	787 (79%)	191 (19%)	22 (2%)	5	32
5	Yc	1000/1032 (97%)	795 (80%)	186 (19%)	19 (2%)	6	35
5	Yx	1000/1032 (97%)	792 (79%)	187 (19%)	21 (2%)	5	33
5	Yy	1000/1032 (97%)	785 (78%)	192 (19%)	23 (2%)	5	31
6	ZD	326/334 (98%)	309 (95%)	16 (5%)	1 (0%)	37	67
6	ZE	330/334 (99%)	314 (95%)	16 (5%)	0	100	100
6	ZZ	326/334 (98%)	314 (96%)	10 (3%)	2 (1%)	22	55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Za	326/334 (98%)	315 (97%)	10 (3%)	1 (0%)	37	67
6	Zb	330/334 (99%)	311 (94%)	19 (6%)	0	100	100
6	Zc	330/334 (99%)	313 (95%)	17 (5%)	0	100	100
6	aD	326/334 (98%)	314 (96%)	11 (3%)	1 (0%)	37	67
6	aE	330/334 (99%)	311 (94%)	19 (6%)	0	100	100
6	aZ	326/334 (98%)	314 (96%)	11 (3%)	1 (0%)	37	67
6	aa	326/334 (98%)	312 (96%)	13 (4%)	1 (0%)	37	67
6	ab	330/334 (99%)	311 (94%)	19 (6%)	0	100	100
6	ac	330/334 (99%)	311 (94%)	19 (6%)	0	100	100
7	b0	653/659 (99%)	579 (89%)	67 (10%)	7 (1%)	12	45
7	b3	653/659 (99%)	581 (89%)	64 (10%)	8 (1%)	11	43
7	b4	653/659 (99%)	569 (87%)	76 (12%)	8 (1%)	11	43
7	b5	653/659 (99%)	578 (88%)	68 (10%)	7 (1%)	12	45
7	b6	653/659 (99%)	568 (87%)	76 (12%)	9 (1%)	9	40
7	b7	653/659 (99%)	576 (88%)	69 (11%)	8 (1%)	11	43
7	b8	653/659 (99%)	577 (88%)	70 (11%)	6 (1%)	14	48
7	b9	653/659 (99%)	574 (88%)	72 (11%)	7 (1%)	12	45
7	bN	653/659 (99%)	582 (89%)	68 (10%)	3 (0%)	25	59
7	bO	653/659 (99%)	582 (89%)	68 (10%)	3 (0%)	25	59
7	bP	653/659 (99%)	575 (88%)	75 (12%)	3 (0%)	25	59
7	bQ	653/659 (99%)	578 (88%)	71 (11%)	4 (1%)	22	55
7	bR	653/659 (99%)	582 (89%)	67 (10%)	4 (1%)	22	55
7	bY	653/659 (99%)	578 (88%)	71 (11%)	4 (1%)	22	55
7	cA	653/659 (99%)	582 (89%)	64 (10%)	7 (1%)	12	45
7	cB	653/659 (99%)	584 (89%)	63 (10%)	6 (1%)	14	48
7	cC	653/659 (99%)	585 (90%)	62 (10%)	6 (1%)	14	48
7	cD	653/659 (99%)	567 (87%)	80 (12%)	6 (1%)	14	48
7	cE	653/659 (99%)	574 (88%)	71 (11%)	8 (1%)	11	43
7	cF	653/659 (99%)	567 (87%)	78 (12%)	8 (1%)	11	43
7	cG	653/659 (99%)	572 (88%)	75 (12%)	6 (1%)	14	48
7	cH	653/659 (99%)	574 (88%)	71 (11%)	8 (1%)	11	43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	cI	653/659 (99%)	577 (88%)	68 (10%)	8 (1%)	11	43
7	cJ	653/659 (99%)	577 (88%)	70 (11%)	6 (1%)	14	48
7	cK	653/659 (99%)	576 (88%)	70 (11%)	7 (1%)	12	45
7	cL	653/659 (99%)	580 (89%)	68 (10%)	5 (1%)	16	51
7	cM	653/659 (99%)	585 (90%)	61 (9%)	7 (1%)	12	45
7	cN	653/659 (99%)	582 (89%)	66 (10%)	5 (1%)	16	51
7	cO	653/659 (99%)	575 (88%)	70 (11%)	8 (1%)	11	43
7	cP	653/659 (99%)	582 (89%)	65 (10%)	6 (1%)	14	48
7	dS	645/659 (98%)	579 (90%)	61 (10%)	5 (1%)	16	51
7	dT	645/659 (98%)	581 (90%)	57 (9%)	7 (1%)	12	45
7	dU	645/659 (98%)	580 (90%)	60 (9%)	5 (1%)	16	51
7	dV	645/659 (98%)	579 (90%)	58 (9%)	8 (1%)	11	43
7	dW	645/659 (98%)	571 (88%)	68 (10%)	6 (1%)	14	48
7	dZ	645/659 (98%)	585 (91%)	53 (8%)	7 (1%)	12	45
8	eB	646/660 (98%)	564 (87%)	74 (12%)	8 (1%)	11	43
8	eU	646/660 (98%)	572 (88%)	68 (10%)	6 (1%)	14	48
8	eW	646/660 (98%)	573 (89%)	65 (10%)	8 (1%)	11	43
8	f9	656/660 (99%)	597 (91%)	52 (8%)	7 (1%)	12	45
8	fA	656/660 (99%)	589 (90%)	60 (9%)	7 (1%)	12	45
8	fB	646/660 (98%)	575 (89%)	65 (10%)	6 (1%)	14	48
8	fR	656/660 (99%)	594 (90%)	56 (8%)	6 (1%)	14	48
8	fS	656/660 (99%)	584 (89%)	65 (10%)	7 (1%)	12	45
8	fU	646/660 (98%)	578 (90%)	62 (10%)	6 (1%)	14	48
8	fW	646/660 (98%)	570 (88%)	70 (11%)	6 (1%)	14	48
8	fr	656/660 (99%)	598 (91%)	52 (8%)	6 (1%)	14	48
8	fs	656/660 (99%)	591 (90%)	59 (9%)	6 (1%)	14	48
9	gE	555/575 (96%)	521 (94%)	33 (6%)	1 (0%)	44	73
9	gG	555/575 (96%)	525 (95%)	29 (5%)	1 (0%)	44	73
9	gH	555/575 (96%)	526 (95%)	28 (5%)	1 (0%)	44	73
10	gd	94/97 (97%)	91 (97%)	3 (3%)	0	100	100
11	h1	161/163 (99%)	137 (85%)	19 (12%)	5 (3%)	3	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	h2	161/163 (99%)	137 (85%)	19 (12%)	5 (3%)	3	26
11	hI	161/163 (99%)	134 (83%)	21 (13%)	6 (4%)	2	22
11	hJ	161/163 (99%)	139 (86%)	18 (11%)	4 (2%)	4	29
11	hK	161/163 (99%)	137 (85%)	19 (12%)	5 (3%)	3	26
11	hL	161/163 (99%)	140 (87%)	16 (10%)	5 (3%)	3	26
11	hM	161/163 (99%)	137 (85%)	20 (12%)	4 (2%)	4	29
11	hX	161/163 (99%)	137 (85%)	18 (11%)	6 (4%)	2	22
11	he	161/163 (99%)	133 (83%)	24 (15%)	4 (2%)	4	29
11	hf	161/163 (99%)	139 (86%)	18 (11%)	4 (2%)	4	29
11	hg	161/163 (99%)	135 (84%)	21 (13%)	5 (3%)	3	26
11	hh	161/163 (99%)	139 (86%)	17 (11%)	5 (3%)	3	26
11	hi	161/163 (99%)	133 (83%)	22 (14%)	6 (4%)	2	22
11	hj	161/163 (99%)	132 (82%)	24 (15%)	5 (3%)	3	26
11	hk	161/163 (99%)	135 (84%)	22 (14%)	4 (2%)	4	29
11	hl	161/163 (99%)	133 (83%)	23 (14%)	5 (3%)	3	26
11	hm	161/163 (99%)	135 (84%)	22 (14%)	4 (2%)	4	29
11	hn	161/163 (99%)	135 (84%)	21 (13%)	5 (3%)	3	26
11	ho	161/163 (99%)	133 (83%)	25 (16%)	3 (2%)	6	35
11	hp	161/163 (99%)	139 (86%)	18 (11%)	4 (2%)	4	29
11	hq	161/163 (99%)	134 (83%)	23 (14%)	4 (2%)	4	29
11	hr	161/163 (99%)	132 (82%)	25 (16%)	4 (2%)	4	29
11	hs	161/163 (99%)	136 (84%)	21 (13%)	4 (2%)	4	29
11	ht	161/163 (99%)	139 (86%)	17 (11%)	5 (3%)	3	26
11	hu	161/163 (99%)	133 (83%)	23 (14%)	5 (3%)	3	26
11	hv	161/163 (99%)	139 (86%)	18 (11%)	4 (2%)	4	29
11	hw	161/163 (99%)	135 (84%)	20 (12%)	6 (4%)	2	22
11	hx	161/163 (99%)	136 (84%)	21 (13%)	4 (2%)	4	29
11	hy	161/163 (99%)	133 (83%)	23 (14%)	5 (3%)	3	26
11	hz	161/163 (99%)	135 (84%)	21 (13%)	5 (3%)	3	26
12	iC	373/391 (95%)	343 (92%)	28 (8%)	2 (0%)	25	59
12	iD	373/391 (95%)	347 (93%)	23 (6%)	3 (1%)	16	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	iF	373/391 (95%)	344 (92%)	26 (7%)	3 (1%)	16	51
13	ja	18/590 (3%)	13 (72%)	3 (17%)	2 (11%)	0	5
13	jb	18/590 (3%)	12 (67%)	5 (28%)	1 (6%)	1	15
13	jc	18/590 (3%)	12 (67%)	5 (28%)	1 (6%)	1	15
14	k3	191/196 (97%)	166 (87%)	23 (12%)	2 (1%)	13	46
14	k4	191/196 (97%)	166 (87%)	23 (12%)	2 (1%)	13	46
14	k7	191/196 (97%)	162 (85%)	27 (14%)	2 (1%)	13	46
14	k8	191/196 (97%)	168 (88%)	21 (11%)	2 (1%)	13	46
14	kV	191/196 (97%)	166 (87%)	23 (12%)	2 (1%)	13	46
14	lV	191/196 (97%)	165 (86%)	24 (13%)	2 (1%)	13	46
15	m1	125/132 (95%)	106 (85%)	19 (15%)	0	100	100
15	m2	125/132 (95%)	108 (86%)	17 (14%)	0	100	100
15	m5	125/132 (95%)	107 (86%)	18 (14%)	0	100	100
15	m6	125/132 (95%)	112 (90%)	13 (10%)	0	100	100
15	mT	125/132 (95%)	114 (91%)	11 (9%)	0	100	100
15	nT	125/132 (95%)	108 (86%)	17 (14%)	0	100	100
16	o0	356/364 (98%)	279 (78%)	71 (20%)	6 (2%)	7	37
16	o1	310/364 (85%)	248 (80%)	55 (18%)	7 (2%)	5	31
16	o2	310/364 (85%)	242 (78%)	59 (19%)	9 (3%)	3	27
16	o6	310/364 (85%)	243 (78%)	58 (19%)	9 (3%)	3	27
16	pA	356/364 (98%)	274 (77%)	74 (21%)	8 (2%)	5	32
16	pB	356/364 (98%)	275 (77%)	74 (21%)	7 (2%)	6	34
17	q3	203/320 (63%)	170 (84%)	30 (15%)	3 (2%)	8	39
17	q4	203/320 (63%)	175 (86%)	26 (13%)	2 (1%)	13	46
17	q5	209/320 (65%)	179 (86%)	28 (13%)	2 (1%)	13	46
17	q7	209/320 (65%)	178 (85%)	29 (14%)	2 (1%)	13	46
17	q8	203/320 (63%)	168 (83%)	33 (16%)	2 (1%)	13	46
17	q9	209/320 (65%)	178 (85%)	29 (14%)	2 (1%)	13	46
All	All	83368/87019 (96%)	74174 (89%)	8284 (10%)	910 (1%)	15	45

All (910) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	S1	47	VAL
1	S2	47	VAL
1	S3	47	VAL
1	S4	47	VAL
1	S5	47	VAL
1	S8	47	VAL
1	SP	47	VAL
1	SP	48	PRO
1	SP	49	ASP
1	SQ	47	VAL
1	Sv	47	VAL
1	Sy	48	PRO
1	Sy	49	ASP
1	Sz	47	VAL
2	T1	15	ILE
2	T3	51	ALA
2	T4	15	ILE
2	T5	15	ILE
2	T7	15	ILE
2	T7	51	ALA
2	T8	51	ALA
2	T9	15	ILE
2	T9	51	ALA
2	TF	15	ILE
2	TG	15	ILE
2	TH	51	ALA
2	Td	15	ILE
2	Te	15	ILE
2	Tg	15	ILE
2	Tg	51	ALA
2	Th	51	ALA
2	Ti	15	ILE
2	Ti	51	ALA
4	WI	10	VAL
4	WI	104	VAL
4	WJ	104	VAL
4	WJ	151	ILE
4	WJ	154	ILE
4	WK	86	VAL
4	WK	104	VAL
4	Wj	10	VAL
4	Wj	104	VAL
4	Wk	10	VAL

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Mol	Chain	Res	Type
4	Wk	104	VAL
4	Wl	64	TRP
4	Wl	86	VAL
4	Wl	104	VAL
4	Wm	104	VAL
4	Wm	151	ILE
4	Wm	154	ILE
4	Wn	103	ASN
4	Wn	304	ILE
4	Wo	86	VAL
4	Wo	104	VAL
4	XI	10	VAL
4	XI	24	ILE
4	XI	104	VAL
4	XJ	86	VAL
4	XJ	104	VAL
4	XJ	151	ILE
4	XK	304	ILE
4	Xj	10	VAL
4	Xj	104	VAL
4	Xk	10	VAL
4	Xk	104	VAL
4	Xl	64	TRP
4	Xl	86	VAL
4	Xl	104	VAL
4	Xm	104	VAL
4	Xm	151	ILE
4	Xm	154	ILE
4	Xn	103	ASN
4	Xn	304	ILE
4	Xo	86	VAL
4	Xo	104	VAL
5	YC	104	ALA
5	YC	168	ILE
5	YC	360	ASN
5	YC	408	HIS
5	YC	505	PRO
5	YC	556	LEU
5	YC	702	GLU
5	YC	930	ALA
5	YC	947	VAL
5	YX	104	ALA

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Mol	Chain	Res	Type
5	YX	168	ILE
5	YX	360	ASN
5	YX	505	PRO
5	YX	546	GLU
5	YX	556	LEU
5	YX	601	ASN
5	YX	702	GLU
5	YX	842	VAL
5	YY	104	ALA
5	YY	168	ILE
5	YY	360	ASN
5	YY	408	HIS
5	YY	505	PRO
5	YY	556	LEU
5	YY	702	GLU
5	YY	842	VAL
5	YY	930	ALA
5	Yc	168	ILE
5	Yc	360	ASN
5	Yc	505	PRO
5	Yc	546	GLU
5	Yc	556	LEU
5	Yc	601	ASN
5	Yc	702	GLU
5	Yc	930	ALA
5	Yx	104	ALA
5	Yx	168	ILE
5	Yx	360	ASN
5	Yx	505	PRO
5	Yx	556	LEU
5	Yx	601	ASN
5	Yx	702	GLU
5	Yx	842	VAL
5	Yx	930	ALA
5	Yy	104	ALA
5	Yy	168	ILE
5	Yy	360	ASN
5	Yy	505	PRO
5	Yy	556	LEU
5	Yy	702	GLU
5	Yy	842	VAL
5	Yy	930	ALA

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Mol	Chain	Res	Type
7	b0	265	ALA
7	b0	346	SER
7	b0	482	ASP
7	b0	552	ASN
7	b3	265	ALA
7	b3	346	SER
7	b3	482	ASP
7	b3	552	ASN
7	b4	265	ALA
7	b4	346	SER
7	b4	482	ASP
7	b4	552	ASN
7	b5	265	ALA
7	b5	482	ASP
7	b5	552	ASN
7	b6	265	ALA
7	b6	346	SER
7	b6	347	ASN
7	b6	482	ASP
7	b6	552	ASN
7	b7	265	ALA
7	b7	346	SER
7	b7	482	ASP
7	b7	552	ASN
7	b8	265	ALA
7	b8	346	SER
7	b8	482	ASP
7	b8	552	ASN
7	b9	265	ALA
7	b9	482	ASP
7	bN	482	ASP
7	bN	552	ASN
7	bO	482	ASP
7	bO	552	ASN
7	bP	482	ASP
7	bP	552	ASN
7	bQ	482	ASP
7	bQ	552	ASN
7	bR	482	ASP
7	bR	552	ASN
7	bY	482	ASP
7	bY	552	ASN

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Mol	Chain	Res	Type
7	cA	265	ALA
7	cA	482	ASP
7	cA	654	LEU
7	cB	265	ALA
7	cB	482	ASP
7	cB	552	ASN
7	cC	265	ALA
7	cC	482	ASP
7	cD	121	VAL
7	cD	482	ASP
7	cD	552	ASN
7	cE	265	ALA
7	cE	482	ASP
7	cE	552	ASN
7	cF	265	ALA
7	cF	482	ASP
7	cF	552	ASN
7	cG	482	ASP
7	cG	552	ASN
7	cH	482	ASP
7	cI	121	VAL
7	cI	346	SER
7	cI	482	ASP
7	cJ	121	VAL
7	cJ	265	ALA
7	cJ	482	ASP
7	cJ	552	ASN
7	cK	121	VAL
7	cK	482	ASP
7	cK	552	ASN
7	cL	482	ASP
7	cL	552	ASN
7	cM	347	ASN
7	cM	482	ASP
7	cN	482	ASP
7	cO	346	SER
7	cO	482	ASP
7	cO	552	ASN
7	cP	482	ASP
7	cP	552	ASN
7	dS	646	ALA
7	dU	265	ALA

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Mol	Chain	Res	Type
7	dV	187	ILE
7	dV	552	ASN
7	dW	646	ALA
8	eB	46	TYR
8	eB	217	ALA
8	eB	319	PRO
8	eB	426	LEU
8	eB	454	ILE
8	eB	610	ASN
8	eU	46	TYR
8	eU	217	ALA
8	eU	426	LEU
8	eU	454	ILE
8	eU	610	ASN
8	eW	46	TYR
8	eW	217	ALA
8	eW	319	PRO
8	eW	426	LEU
8	eW	454	ILE
8	eW	610	ASN
8	f9	41	ASN
8	fA	41	ASN
8	fB	46	TYR
8	fB	217	ALA
8	fB	426	LEU
8	fB	454	ILE
8	fB	610	ASN
8	fR	41	ASN
8	fR	256	TYR
8	fS	41	ASN
8	fU	46	TYR
8	fU	217	ALA
8	fU	426	LEU
8	fU	454	ILE
8	fU	610	ASN
8	fW	46	TYR
8	fW	217	ALA
8	fW	426	LEU
8	fW	454	ILE
8	fr	41	ASN
8	fs	41	ASN
9	gE	137	GLU

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Mol	Chain	Res	Type
9	gG	137	GLU
9	gH	137	GLU
11	h1	42	PRO
11	h2	42	PRO
11	hI	42	PRO
11	hJ	42	PRO
11	hK	42	PRO
11	hL	26	SER
11	hL	42	PRO
11	hM	42	PRO
11	hX	42	PRO
11	he	42	PRO
11	hf	42	PRO
11	hg	42	PRO
11	hh	42	PRO
11	hi	42	PRO
11	hj	26	SER
11	hj	42	PRO
11	hk	42	PRO
11	hl	26	SER
11	hl	42	PRO
11	hm	26	SER
11	hm	42	PRO
11	hn	42	PRO
11	ho	42	PRO
11	hp	42	PRO
11	hq	42	PRO
11	hr	26	SER
11	hr	42	PRO
11	hs	42	PRO
11	ht	42	PRO
11	hu	26	SER
11	hu	42	PRO
11	hv	26	SER
11	hv	42	PRO
11	hw	42	PRO
11	hx	42	PRO
11	hy	42	PRO
11	hz	42	PRO
12	iC	99	SER
12	iD	99	SER
12	iF	99	SER

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Mol	Chain	Res	Type
13	ja	586	ALA
13	jb	586	ALA
13	jc	586	ALA
14	k3	127	ASP
14	k4	127	ASP
14	k7	127	ASP
14	k8	127	ASP
14	kV	127	ASP
16	o0	152	SER
16	o1	83	ASN
16	o1	93	ARG
16	o1	120	SER
16	o2	83	ASN
16	o2	93	ARG
16	o2	110	LEU
16	o2	120	SER
16	o2	261	PRO
16	o6	83	ASN
16	o6	93	ARG
16	o6	110	LEU
16	o6	261	PRO
16	pA	152	SER
16	pB	152	SER
17	q3	121	SER
17	q4	121	SER
17	q8	121	SER
1	S1	49	ASP
1	S4	49	ASP
1	S7	49	ASP
1	S8	49	ASP
1	SQ	49	ASP
1	Sv	49	ASP
1	Sw	176	ILE
1	Sz	49	ASP
2	T2	15	ILE
2	T3	15	ILE
2	T4	51	ALA
2	T5	51	ALA
2	T6	15	ILE
2	T6	51	ALA
2	T8	15	ILE
2	TF	51	ALA

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Mol	Chain	Res	Type
2	TG	51	ALA
2	TH	15	ILE
2	Te	51	ALA
2	Tf	15	ILE
2	Th	15	ILE
3	UL	11	ILE
3	UM	11	ILE
3	UN	11	ILE
3	Up	11	ILE
3	Uq	11	ILE
3	Ur	11	ILE
3	Us	11	ILE
3	Ut	11	ILE
3	Uu	11	ILE
3	VL	11	ILE
3	VM	11	ILE
3	VN	11	ILE
3	Vp	11	ILE
3	Vq	11	ILE
3	Vr	11	ILE
3	Vs	11	ILE
3	Vt	11	ILE
3	Vu	11	ILE
4	WI	86	VAL
4	WJ	86	VAL
4	WJ	258	TYR
4	WK	180	VAL
4	WK	304	ILE
4	WK	408	VAL
4	Wj	86	VAL
4	Wj	180	VAL
4	Wk	86	VAL
4	Wl	154	ILE
4	Wl	180	VAL
4	Wm	86	VAL
4	Wm	258	TYR
4	Wn	86	VAL
4	Wn	408	VAL
4	Wo	180	VAL
4	Wo	304	ILE
4	Wo	408	VAL
4	XI	86	VAL

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Mol	Chain	Res	Type
4	XJ	64	TRP
4	XJ	154	ILE
4	XJ	180	VAL
4	XK	86	VAL
4	XK	180	VAL
4	XK	277	GLU
4	XK	408	VAL
4	Xj	86	VAL
4	Xj	180	VAL
4	Xk	86	VAL
4	Xl	154	ILE
4	Xl	180	VAL
4	Xm	86	VAL
4	Xm	258	TYR
4	Xn	86	VAL
4	Xn	180	VAL
4	Xo	180	VAL
4	Xo	304	ILE
5	YC	546	GLU
5	YC	601	ASN
5	YX	930	ALA
5	YY	546	GLU
5	YY	601	ASN
5	YY	635	GLU
5	YY	947	VAL
5	Yc	104	ALA
5	Yc	842	VAL
5	Yx	546	GLU
5	Yy	546	GLU
5	Yy	601	ASN
5	Yy	635	GLU
5	Yy	947	VAL
7	b0	121	VAL
7	b3	121	VAL
7	b3	645	THR
7	b4	121	VAL
7	b5	121	VAL
7	b6	13	THR
7	b6	121	VAL
7	b7	121	VAL
7	b8	121	VAL
7	b8	163	LEU

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Mol	Chain	Res	Type
7	b9	552	ASN
7	bN	136	ALA
7	bO	136	ALA
7	bP	136	ALA
7	bQ	136	ALA
7	bR	136	ALA
7	bY	136	ALA
7	cA	163	LEU
7	cA	552	ASN
7	cB	121	VAL
7	cB	163	LEU
7	cC	121	VAL
7	cC	552	ASN
7	cC	645	THR
7	cD	265	ALA
7	cE	13	THR
7	cE	121	VAL
7	cE	346	SER
7	cE	645	THR
7	cF	121	VAL
7	cF	346	SER
7	cF	347	ASN
7	cG	121	VAL
7	cG	265	ALA
7	cH	121	VAL
7	cH	265	ALA
7	cH	552	ASN
7	cI	265	ALA
7	cI	552	ASN
7	cI	645	THR
7	cK	265	ALA
7	cK	645	THR
7	cL	121	VAL
7	cM	121	VAL
7	cM	265	ALA
7	cM	552	ASN
7	cN	121	VAL
7	cN	265	ALA
7	cN	552	ASN
7	cO	121	VAL
7	cO	265	ALA
7	cP	121	VAL

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Mol	Chain	Res	Type
7	dS	148	ALA
7	dS	265	ALA
7	dS	552	ASN
7	dT	136	ALA
7	dT	148	ALA
7	dT	552	ASN
7	dT	646	ALA
7	dU	148	ALA
7	dU	552	ASN
7	dU	646	ALA
7	dV	136	ALA
7	dV	148	ALA
7	dV	265	ALA
7	dW	148	ALA
7	dW	265	ALA
7	dW	552	ASN
7	dZ	136	ALA
7	dZ	148	ALA
7	dZ	265	ALA
7	dZ	552	ASN
7	dZ	646	ALA
8	f9	202	ASP
8	f9	527	ASP
8	f9	635	ARG
8	fA	256	TYR
8	fA	527	ASP
8	fA	635	ARG
8	fR	527	ASP
8	fR	635	ARG
8	fS	202	ASP
8	fS	256	TYR
8	fS	527	ASP
8	fW	610	ASN
8	fr	256	TYR
8	fr	527	ASP
8	fr	635	ARG
8	fs	527	ASP
11	h1	55	ASN
11	h2	55	ASN
11	hJ	26	SER
11	hK	26	SER
11	hX	26	SER

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Mol	Chain	Res	Type
11	he	26	SER
11	hh	26	SER
11	hk	26	SER
11	hn	26	SER
11	hp	26	SER
11	hq	26	SER
11	hs	26	SER
11	ht	26	SER
11	hx	55	ASN
14	k3	128	ASP
14	k4	128	ASP
14	k7	128	ASP
14	k8	128	ASP
14	kV	128	ASP
14	lV	127	ASP
16	o0	103	VAL
16	o0	111	ILE
16	o0	356	ARG
16	o1	110	LEU
16	o1	272	THR
16	o2	272	THR
16	o6	120	SER
16	o6	272	THR
16	pA	103	VAL
16	pA	111	ILE
16	pA	356	ARG
16	pB	103	VAL
16	pB	111	ILE
16	pB	356	ARG
17	q5	11	ALA
17	q5	118	TYR
17	q7	118	TYR
17	q9	118	TYR
1	S0	47	VAL
1	S3	49	ASP
1	S4	176	ILE
1	S5	176	ILE
1	S6	47	VAL
1	S7	47	VAL
1	SA	47	VAL
1	SO	176	ILE
1	Sv	176	ILE

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Mol	Chain	Res	Type
1	Sx	47	VAL
2	T1	51	ALA
2	T2	51	ALA
2	Td	51	ALA
2	Tf	51	ALA
4	WJ	180	VAL
4	Wj	60	LEU
4	Wk	180	VAL
4	Wl	258	TYR
4	Wm	180	VAL
4	Wn	180	VAL
4	XI	180	VAL
4	XJ	258	TYR
4	XK	103	ASN
4	Xk	180	VAL
4	Xl	258	TYR
4	Xm	180	VAL
4	Xn	408	VAL
4	Xo	408	VAL
5	YC	71	ASP
5	YC	541	TYR
5	YC	635	GLU
5	YC	966	PRO
5	YX	71	ASP
5	YX	992	PRO
5	YY	71	ASP
5	YY	541	TYR
5	Yc	71	ASP
5	Yc	307	ILE
5	Yx	71	ASP
5	Yx	307	ILE
5	Yy	71	ASP
5	Yy	307	ILE
5	Yy	541	TYR
5	Yy	966	PRO
6	ZD	56	PHE
6	ZZ	56	PHE
6	Za	56	PHE
6	aa	56	PHE
7	b0	163	LEU
7	b3	163	LEU
7	b4	163	LEU

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Mol	Chain	Res	Type
7	b5	13	THR
7	b5	163	LEU
7	b5	645	THR
7	b6	163	LEU
7	b7	13	THR
7	b7	645	THR
7	b9	163	LEU
7	b9	645	THR
7	cC	163	LEU
7	cD	13	THR
7	cD	645	THR
7	cE	163	LEU
7	cF	163	LEU
7	cG	645	THR
7	cH	163	LEU
7	cH	345	SER
7	cI	163	LEU
7	cJ	13	THR
7	cJ	645	THR
7	cL	13	THR
7	cL	265	ALA
7	cM	163	LEU
7	cM	645	THR
7	cO	163	LEU
7	cP	265	ALA
7	dT	265	ALA
7	dV	646	ALA
8	eB	318	ASP
8	eW	318	ASP
8	eW	530	LEU
8	f9	256	TYR
8	fS	220	THR
8	fS	635	ARG
8	fs	220	THR
8	fs	256	TYR
8	fs	635	ARG
11	h1	125	LYS
11	h2	125	LYS
11	hI	26	SER
11	hI	93	ALA
11	hK	93	ALA
11	hL	93	ALA

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Mol	Chain	Res	Type
11	hM	26	SER
11	hM	93	ALA
11	he	125	LYS
11	hf	26	SER
11	hg	26	SER
11	hg	93	ALA
11	hh	93	ALA
11	hi	26	SER
11	hj	125	LYS
11	hk	125	LYS
11	hl	14	ASP
11	hl	125	LYS
11	hm	125	LYS
11	hn	93	ALA
11	hn	125	LYS
11	ho	125	LYS
11	hq	93	ALA
11	hq	125	LYS
11	hr	125	LYS
11	hu	125	LYS
11	hv	125	LYS
11	hw	125	LYS
11	hy	55	ASN
11	hy	125	LYS
11	hz	55	ASN
11	hz	125	LYS
14	lV	128	ASP
17	q4	131	PRO
17	q9	11	ALA
1	S0	87	TYR
1	S1	176	ILE
1	S6	49	ASP
1	SA	87	TYR
1	SQ	87	TYR
4	WI	180	VAL
4	Wl	151	ILE
5	YC	307	ILE
5	YC	353	ASP
5	YC	842	VAL
5	YX	305	TYR
5	YX	307	ILE
5	YX	966	PRO

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Mol	Chain	Res	Type
5	YX	977	ILE
5	YX	989	LEU
5	YY	307	ILE
5	YY	966	PRO
5	Yc	305	TYR
5	Yc	715	LEU
5	Yc	977	ILE
5	Yx	715	LEU
5	Yx	966	PRO
6	aD	56	PHE
7	b0	645	THR
7	b4	645	THR
7	b6	645	THR
7	b7	163	LEU
7	cA	121	VAL
7	cF	645	THR
7	cK	163	LEU
8	eB	530	LEU
8	eU	530	LEU
8	f9	220	THR
8	f9	531	GLU
8	fA	202	ASP
8	fA	220	THR
8	fB	530	LEU
8	fR	220	THR
8	fS	531	GLU
8	fU	530	LEU
8	fW	530	LEU
8	fr	220	THR
8	fs	531	GLU
11	h1	26	SER
11	h1	93	ALA
11	h2	26	SER
11	h2	93	ALA
11	hI	14	ASP
11	hJ	93	ALA
11	hL	125	LYS
11	hX	93	ALA
11	he	93	ALA
11	hf	93	ALA
11	hf	125	LYS
11	hg	125	LYS

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Mol	Chain	Res	Type
11	hh	125	LYS
11	hi	14	ASP
11	hi	55	ASN
11	hi	125	LYS
11	hj	14	ASP
11	hj	93	ALA
11	hk	93	ALA
11	hl	93	ALA
11	hm	93	ALA
11	hn	14	ASP
11	hp	125	LYS
11	hs	125	LYS
11	ht	93	ALA
11	ht	125	LYS
11	hu	93	ALA
11	hw	26	SER
11	hw	93	ALA
11	hx	93	ALA
11	hx	125	LYS
11	hy	93	ALA
11	hz	93	ALA
12	iC	78	ASN
12	iF	77	ALA
16	o0	169	ALA
16	o2	353	THR
16	pA	169	ALA
17	q3	131	PRO
17	q7	11	ALA
17	q8	131	PRO
1	S1	177	ALA
1	S3	87	TYR
1	S5	177	ALA
1	S8	87	TYR
1	SO	177	ALA
1	Sw	177	ALA
1	Sz	87	TYR
3	Up	15	ALA
3	Vp	15	ALA
3	Vr	15	ALA
4	Wj	24	ILE
4	Wk	171	VAL
4	Wl	171	VAL

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Mol	Chain	Res	Type
4	Wo	171	VAL
4	Xk	171	VAL
4	Xl	171	VAL
5	YC	305	TYR
5	YC	354	THR
5	YC	385	THR
5	YX	409	ASP
5	YX	715	LEU
5	YY	385	THR
5	YY	606	ASP
5	Yc	409	ASP
5	Yx	385	THR
5	Yx	409	ASP
5	Yy	105	THR
5	Yy	305	TYR
5	Yy	385	THR
5	Yy	606	ASP
6	aZ	53	GLU
7	b4	13	THR
7	b9	121	VAL
7	cA	13	THR
7	cH	645	THR
7	cI	13	THR
7	cK	13	THR
7	cN	13	THR
7	cP	645	THR
7	dS	8	ILE
7	dT	8	ILE
7	dU	8	ILE
7	dV	8	ILE
7	dW	8	ILE
7	dZ	8	ILE
8	fA	531	GLU
8	fR	531	GLU
8	fr	531	GLU
11	hI	125	LYS
11	hJ	125	LYS
11	hL	14	ASP
11	hX	125	LYS
11	hg	55	ASN
11	hi	93	ALA
11	ho	26	SER

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Mol	Chain	Res	Type
11	hz	26	SER
12	iD	78	ASN
12	iF	78	ASN
16	o1	353	THR
16	o2	99	ILE
16	o6	196	MET
16	o6	353	THR
16	pA	89	SER
16	pB	169	ALA
1	S4	177	ALA
1	S5	183	ALA
1	SO	183	ALA
1	Sv	177	ALA
4	WI	171	VAL
4	WJ	171	VAL
4	Wj	62	ALA
4	Wj	171	VAL
4	Wm	89	TYR
4	Wm	171	VAL
4	XI	171	VAL
4	XJ	89	TYR
4	XJ	171	VAL
4	Xj	171	VAL
4	Xk	24	ILE
4	Xo	171	VAL
4	Xo	277	GLU
5	YC	105	THR
5	YX	635	GLU
5	YY	105	THR
5	YY	305	TYR
5	Yc	385	THR
5	Yc	965	LEU
5	Yx	305	TYR
5	Yx	541	TYR
5	Yy	409	ASP
5	Yy	715	LEU
6	ZZ	53	GLU
7	b3	13	THR
7	b9	13	THR
7	bQ	100	GLU
7	bY	100	GLU
7	cB	645	THR

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Mol	Chain	Res	Type
7	cG	13	THR
7	cH	13	THR
7	cO	13	THR
7	cO	645	THR
7	cP	13	THR
11	hI	55	ASN
11	hK	55	ASN
11	hK	125	LYS
11	hM	125	LYS
11	hX	14	ASP
11	hX	55	ASN
11	hh	55	ASN
11	hp	55	ASN
11	hr	55	ASN
11	hs	55	ASN
11	ht	55	ASN
11	hu	14	ASP
11	hv	93	ALA
11	hw	14	ASP
11	hw	55	ASN
11	hy	14	ASP
12	iD	77	ALA
16	o0	270	ASN
16	o2	196	MET
16	pA	88	SER
16	pA	270	ASN
16	pB	253	TRP
16	pB	270	ASN
17	q3	92	MET
4	WI	24	ILE
4	WK	171	VAL
4	Wk	24	ILE
4	Xm	171	VAL
5	YX	947	VAL
5	YY	977	ILE
5	Yc	947	VAL
5	Yy	977	ILE
16	o1	99	ILE
16	o6	99	ILE
2	T3	249	ILE
4	Wn	171	VAL
4	XK	171	VAL

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Mol	Chain	Res	Type
4	Xj	24	ILE
4	Xn	171	VAL
5	YC	977	ILE
5	Yx	947	VAL
5	Yx	977	ILE
7	dW	121	VAL
2	T8	249	ILE
2	Tg	249	ILE
4	WJ	565	ILE
4	Wm	565	ILE
4	XI	214	SER
4	XJ	565	ILE
4	Xm	565	ILE
7	dT	121	VAL
7	dZ	121	VAL
13	ja	581	PRO
2	Th	249	ILE
4	WI	278	GLY
4	Wk	278	GLY
4	Wm	365	ILE
4	Xk	278	GLY
4	Xm	365	ILE
5	YC	963	TYR
5	YX	963	TYR
5	Yx	963	TYR
7	bR	121	VAL
7	dV	121	VAL

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	S0	426/427 (100%)	404 (95%)	22 (5%)	19	49
1	S1	426/427 (100%)	400 (94%)	26 (6%)	15	44
1	S2	426/427 (100%)	408 (96%)	18 (4%)	25	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S3	426/427 (100%)	404 (95%)	22 (5%)	19	49
1	S4	426/427 (100%)	407 (96%)	19 (4%)	23	53
1	S5	426/427 (100%)	405 (95%)	21 (5%)	21	50
1	S6	426/427 (100%)	407 (96%)	19 (4%)	23	53
1	S7	426/427 (100%)	410 (96%)	16 (4%)	28	57
1	S8	426/427 (100%)	404 (95%)	22 (5%)	19	49
1	SA	426/427 (100%)	406 (95%)	20 (5%)	22	51
1	SO	426/427 (100%)	402 (94%)	24 (6%)	17	47
1	SP	426/427 (100%)	407 (96%)	19 (4%)	23	53
1	SQ	426/427 (100%)	404 (95%)	22 (5%)	19	49
1	Sv	426/427 (100%)	402 (94%)	24 (6%)	17	47
1	Sw	426/427 (100%)	406 (95%)	20 (5%)	22	51
1	Sx	426/427 (100%)	409 (96%)	17 (4%)	27	56
1	Sy	426/427 (100%)	411 (96%)	15 (4%)	31	60
1	Sz	426/427 (100%)	406 (95%)	20 (5%)	22	51
2	T1	244/244 (100%)	237 (97%)	7 (3%)	37	63
2	T2	244/244 (100%)	232 (95%)	12 (5%)	21	50
2	T3	244/244 (100%)	239 (98%)	5 (2%)	50	72
2	T4	244/244 (100%)	238 (98%)	6 (2%)	42	66
2	T5	244/244 (100%)	238 (98%)	6 (2%)	42	66
2	T6	244/244 (100%)	232 (95%)	12 (5%)	21	50
2	T7	244/244 (100%)	232 (95%)	12 (5%)	21	50
2	T8	244/244 (100%)	239 (98%)	5 (2%)	50	72
2	T9	244/244 (100%)	237 (97%)	7 (3%)	37	63
2	TF	244/244 (100%)	237 (97%)	7 (3%)	37	63
2	TG	244/244 (100%)	233 (96%)	11 (4%)	23	53
2	TH	244/244 (100%)	237 (97%)	7 (3%)	37	63
2	Td	244/244 (100%)	234 (96%)	10 (4%)	26	55
2	Te	244/244 (100%)	239 (98%)	5 (2%)	50	72
2	Tf	244/244 (100%)	233 (96%)	11 (4%)	23	53
2	Tg	244/244 (100%)	233 (96%)	11 (4%)	23	53

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Th	244/244 (100%)	240 (98%)	4 (2%)	58	76
2	Ti	244/244 (100%)	236 (97%)	8 (3%)	33	61
3	UL	187/188 (100%)	182 (97%)	5 (3%)	40	65
3	UM	187/188 (100%)	184 (98%)	3 (2%)	58	76
3	UN	187/188 (100%)	185 (99%)	2 (1%)	70	83
3	Up	187/188 (100%)	184 (98%)	3 (2%)	58	76
3	Uq	187/188 (100%)	183 (98%)	4 (2%)	48	71
3	Ur	187/188 (100%)	183 (98%)	4 (2%)	48	71
3	Us	187/188 (100%)	181 (97%)	6 (3%)	34	61
3	Ut	187/188 (100%)	184 (98%)	3 (2%)	58	76
3	Uu	187/188 (100%)	185 (99%)	2 (1%)	70	83
3	VL	187/188 (100%)	185 (99%)	2 (1%)	70	83
3	VM	187/188 (100%)	184 (98%)	3 (2%)	58	76
3	VN	187/188 (100%)	182 (97%)	5 (3%)	40	65
3	Vp	187/188 (100%)	182 (97%)	5 (3%)	40	65
3	Vq	187/188 (100%)	182 (97%)	5 (3%)	40	65
3	Vr	187/188 (100%)	182 (97%)	5 (3%)	40	65
3	Vs	187/188 (100%)	180 (96%)	7 (4%)	29	58
3	Vt	187/188 (100%)	184 (98%)	3 (2%)	58	76
3	Vu	187/188 (100%)	184 (98%)	3 (2%)	58	76
4	WI	519/519 (100%)	485 (93%)	34 (7%)	14	42
4	WJ	519/519 (100%)	483 (93%)	36 (7%)	13	40
4	WK	519/519 (100%)	476 (92%)	43 (8%)	9	34
4	Wj	519/519 (100%)	484 (93%)	35 (7%)	13	41
4	Wk	519/519 (100%)	485 (93%)	34 (7%)	14	42
4	Wl	519/519 (100%)	485 (93%)	34 (7%)	14	42
4	Wm	519/519 (100%)	478 (92%)	41 (8%)	10	35
4	Wn	519/519 (100%)	481 (93%)	38 (7%)	11	38
4	Wo	519/519 (100%)	471 (91%)	48 (9%)	7	31
4	XI	519/519 (100%)	479 (92%)	40 (8%)	10	36
4	XJ	519/519 (100%)	475 (92%)	44 (8%)	8	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	XK	519/519 (100%)	476 (92%)	43 (8%)	9	34
4	Xj	519/519 (100%)	479 (92%)	40 (8%)	10	36
4	Xk	519/519 (100%)	480 (92%)	39 (8%)	11	37
4	Xl	519/519 (100%)	485 (93%)	34 (7%)	14	42
4	Xm	519/519 (100%)	479 (92%)	40 (8%)	10	36
4	Xn	519/519 (100%)	475 (92%)	44 (8%)	8	33
4	Xo	519/519 (100%)	475 (92%)	44 (8%)	8	33
5	YC	896/921 (97%)	750 (84%)	146 (16%)	2	12
5	YX	896/921 (97%)	756 (84%)	140 (16%)	2	14
5	YY	896/921 (97%)	748 (84%)	148 (16%)	2	12
5	Yc	896/921 (97%)	748 (84%)	148 (16%)	2	12
5	Yx	896/921 (97%)	745 (83%)	151 (17%)	1	11
5	Yy	896/921 (97%)	759 (85%)	137 (15%)	2	14
6	ZD	289/295 (98%)	277 (96%)	12 (4%)	25	54
6	ZE	293/295 (99%)	283 (97%)	10 (3%)	32	60
6	ZZ	289/295 (98%)	278 (96%)	11 (4%)	28	57
6	Za	289/295 (98%)	275 (95%)	14 (5%)	21	51
6	Zb	293/295 (99%)	279 (95%)	14 (5%)	21	51
6	Zc	293/295 (99%)	281 (96%)	12 (4%)	26	55
6	aD	289/295 (98%)	278 (96%)	11 (4%)	28	57
6	aE	293/295 (99%)	282 (96%)	11 (4%)	28	57
6	aZ	289/295 (98%)	280 (97%)	9 (3%)	35	62
6	aa	289/295 (98%)	272 (94%)	17 (6%)	16	45
6	ab	293/295 (99%)	279 (95%)	14 (5%)	21	51
6	ac	293/295 (99%)	281 (96%)	12 (4%)	26	55
7	b0	534/536 (100%)	469 (88%)	65 (12%)	4	21
7	b3	534/536 (100%)	467 (88%)	67 (12%)	3	20
7	b4	534/536 (100%)	481 (90%)	53 (10%)	6	28
7	b5	534/536 (100%)	476 (89%)	58 (11%)	5	25
7	b6	534/536 (100%)	478 (90%)	56 (10%)	5	26
7	b7	534/536 (100%)	475 (89%)	59 (11%)	5	25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	b8	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	b9	534/536 (100%)	468 (88%)	66 (12%)	4	20
7	bN	534/536 (100%)	476 (89%)	58 (11%)	5	25
7	bO	534/536 (100%)	477 (89%)	57 (11%)	5	26
7	bP	534/536 (100%)	471 (88%)	63 (12%)	4	22
7	bQ	534/536 (100%)	483 (90%)	51 (10%)	7	29
7	bR	534/536 (100%)	474 (89%)	60 (11%)	5	24
7	bY	534/536 (100%)	475 (89%)	59 (11%)	5	25
7	cA	534/536 (100%)	465 (87%)	69 (13%)	3	19
7	cB	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	cC	534/536 (100%)	470 (88%)	64 (12%)	4	21
7	cD	534/536 (100%)	470 (88%)	64 (12%)	4	21
7	cE	534/536 (100%)	474 (89%)	60 (11%)	5	24
7	cF	534/536 (100%)	468 (88%)	66 (12%)	4	20
7	cG	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	cH	534/536 (100%)	474 (89%)	60 (11%)	5	24
7	cI	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	cJ	534/536 (100%)	479 (90%)	55 (10%)	6	27
7	cK	534/536 (100%)	469 (88%)	65 (12%)	4	21
7	cL	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	cM	534/536 (100%)	469 (88%)	65 (12%)	4	21
7	cN	534/536 (100%)	463 (87%)	71 (13%)	3	18
7	cO	534/536 (100%)	472 (88%)	62 (12%)	4	23
7	cP	534/536 (100%)	462 (86%)	72 (14%)	3	18
7	dS	527/536 (98%)	458 (87%)	69 (13%)	3	19
7	dT	527/536 (98%)	460 (87%)	67 (13%)	3	19
7	dU	527/536 (98%)	457 (87%)	70 (13%)	3	18
7	dV	527/536 (98%)	463 (88%)	64 (12%)	4	21
7	dW	527/536 (98%)	462 (88%)	65 (12%)	4	20
7	dZ	527/536 (98%)	455 (86%)	72 (14%)	3	17
8	eB	567/578 (98%)	495 (87%)	72 (13%)	3	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	eU	567/578 (98%)	482 (85%)	85 (15%)	2	15
8	eW	567/578 (98%)	488 (86%)	79 (14%)	3	17
8	f9	576/578 (100%)	487 (84%)	89 (16%)	2	14
8	fA	576/578 (100%)	496 (86%)	80 (14%)	3	17
8	fB	567/578 (98%)	486 (86%)	81 (14%)	2	17
8	fR	576/578 (100%)	489 (85%)	87 (15%)	2	15
8	fS	576/578 (100%)	491 (85%)	85 (15%)	2	15
8	fU	567/578 (98%)	496 (88%)	71 (12%)	3	20
8	fW	567/578 (98%)	489 (86%)	78 (14%)	3	17
8	fr	576/578 (100%)	489 (85%)	87 (15%)	2	15
8	fs	576/578 (100%)	490 (85%)	86 (15%)	2	15
9	gE	474/485 (98%)	417 (88%)	57 (12%)	4	21
9	gG	474/485 (98%)	426 (90%)	48 (10%)	6	27
9	gH	474/485 (98%)	422 (89%)	52 (11%)	5	25
10	gd	78/79 (99%)	75 (96%)	3 (4%)	28	57
11	h1	137/137 (100%)	107 (78%)	30 (22%)	1	5
11	h2	137/137 (100%)	106 (77%)	31 (23%)	1	5
11	hI	137/137 (100%)	112 (82%)	25 (18%)	1	8
11	hJ	137/137 (100%)	107 (78%)	30 (22%)	1	5
11	hK	137/137 (100%)	110 (80%)	27 (20%)	1	7
11	hL	137/137 (100%)	114 (83%)	23 (17%)	1	11
11	hM	137/137 (100%)	110 (80%)	27 (20%)	1	7
11	hX	137/137 (100%)	109 (80%)	28 (20%)	1	6
11	he	137/137 (100%)	115 (84%)	22 (16%)	2	13
11	hf	137/137 (100%)	113 (82%)	24 (18%)	1	9
11	hg	137/137 (100%)	113 (82%)	24 (18%)	1	9
11	hh	137/137 (100%)	114 (83%)	23 (17%)	1	11
11	hi	137/137 (100%)	112 (82%)	25 (18%)	1	8
11	hj	137/137 (100%)	109 (80%)	28 (20%)	1	6
11	hk	137/137 (100%)	115 (84%)	22 (16%)	2	13
11	hl	137/137 (100%)	115 (84%)	22 (16%)	2	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	hm	137/137 (100%)	117 (85%)	20 (15%)	2	16
11	hn	137/137 (100%)	115 (84%)	22 (16%)	2	13
11	ho	137/137 (100%)	106 (77%)	31 (23%)	1	5
11	hp	137/137 (100%)	114 (83%)	23 (17%)	1	11
11	hq	137/137 (100%)	111 (81%)	26 (19%)	1	7
11	hr	137/137 (100%)	109 (80%)	28 (20%)	1	6
11	hs	137/137 (100%)	114 (83%)	23 (17%)	1	11
11	ht	137/137 (100%)	115 (84%)	22 (16%)	2	13
11	hu	137/137 (100%)	113 (82%)	24 (18%)	1	9
11	hv	137/137 (100%)	108 (79%)	29 (21%)	1	5
11	hw	137/137 (100%)	105 (77%)	32 (23%)	0	4
11	hx	137/137 (100%)	110 (80%)	27 (20%)	1	7
11	hy	137/137 (100%)	109 (80%)	28 (20%)	1	6
11	hz	137/137 (100%)	110 (80%)	27 (20%)	1	7
12	iC	334/350 (95%)	286 (86%)	48 (14%)	2	16
12	iD	334/350 (95%)	294 (88%)	40 (12%)	4	21
12	iF	334/350 (95%)	290 (87%)	44 (13%)	3	18
13	ja	16/499 (3%)	13 (81%)	3 (19%)	1	8
13	jb	16/499 (3%)	14 (88%)	2 (12%)	3	20
13	jc	16/499 (3%)	14 (88%)	2 (12%)	3	20
14	k3	166/169 (98%)	148 (89%)	18 (11%)	5	25
14	k4	166/169 (98%)	138 (83%)	28 (17%)	1	11
14	k7	166/169 (98%)	148 (89%)	18 (11%)	5	25
14	k8	166/169 (98%)	139 (84%)	27 (16%)	2	12
14	kV	166/169 (98%)	137 (82%)	29 (18%)	1	9
14	lV	166/169 (98%)	149 (90%)	17 (10%)	6	27
15	m1	119/123 (97%)	104 (87%)	15 (13%)	3	19
15	m2	119/123 (97%)	102 (86%)	17 (14%)	2	17
15	m5	119/123 (97%)	108 (91%)	11 (9%)	7	31
15	m6	119/123 (97%)	106 (89%)	13 (11%)	5	25
15	mT	119/123 (97%)	102 (86%)	17 (14%)	2	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	nT	119/123 (97%)	103 (87%)	16 (13%)	3	18
16	o0	309/313 (99%)	267 (86%)	42 (14%)	3	18
16	o1	276/313 (88%)	228 (83%)	48 (17%)	1	10
16	o2	276/313 (88%)	237 (86%)	39 (14%)	3	17
16	o6	276/313 (88%)	228 (83%)	48 (17%)	1	10
16	pA	309/313 (99%)	272 (88%)	37 (12%)	4	21
16	pB	309/313 (99%)	267 (86%)	42 (14%)	3	18
17	q3	183/275 (66%)	148 (81%)	35 (19%)	1	7
17	q4	183/275 (66%)	145 (79%)	38 (21%)	1	6
17	q5	189/275 (69%)	146 (77%)	43 (23%)	0	4
17	q7	189/275 (69%)	147 (78%)	42 (22%)	1	5
17	q8	183/275 (66%)	145 (79%)	38 (21%)	1	6
17	q9	189/275 (69%)	149 (79%)	40 (21%)	1	5
All	All	70917/73573 (96%)	63575 (90%)	7342 (10%)	8	26

All (7342) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	S0	3	ASN
1	S0	16	VAL
1	S0	23	THR
1	S0	29	ILE
1	S0	32	VAL
1	S0	45	ASN
1	S0	47	VAL
1	S0	49	ASP
1	S0	58	LEU
1	S0	60	ILE
1	S0	73	THR
1	S0	77	THR
1	S0	110	VAL
1	S0	117	THR
1	S0	141	VAL
1	S0	142	ILE
1	S0	158	THR
1	S0	190	VAL
1	S0	195	THR

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Mol	Chain	Res	Type
1	S0	228	ILE
1	S0	230	LEU
1	S0	517	ILE
1	S1	5	THR
1	S1	7	GLN
1	S1	29	ILE
1	S1	32	VAL
1	S1	39	ILE
1	S1	44	VAL
1	S1	45	ASN
1	S1	47	VAL
1	S1	53	THR
1	S1	60	ILE
1	S1	77	THR
1	S1	110	VAL
1	S1	142	ILE
1	S1	158	THR
1	S1	165	THR
1	S1	170	ILE
1	S1	173	ILE
1	S1	184	THR
1	S1	195	THR
1	S1	228	ILE
1	S1	230	LEU
1	S1	246	THR
1	S1	266	THR
1	S1	357	ASP
1	S1	471	THR
1	S1	478	ASP
1	S2	5	THR
1	S2	19	ASP
1	S2	23	THR
1	S2	29	ILE
1	S2	31	ASP
1	S2	45	ASN
1	S2	85	LEU
1	S2	110	VAL
1	S2	115	SER
1	S2	142	ILE
1	S2	167	GLN
1	S2	195	THR
1	S2	218	SER

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Mol	Chain	Res	Type
1	S2	228	ILE
1	S2	230	LEU
1	S2	266	THR
1	S2	462	ASN
1	S2	491	ASP
1	S3	11	ASN
1	S3	21	THR
1	S3	24	ASN
1	S3	29	ILE
1	S3	32	VAL
1	S3	60	ILE
1	S3	73	THR
1	S3	74	LYS
1	S3	77	THR
1	S3	110	VAL
1	S3	116	ILE
1	S3	117	THR
1	S3	125	LEU
1	S3	141	VAL
1	S3	142	ILE
1	S3	158	THR
1	S3	176	ILE
1	S3	182	THR
1	S3	190	VAL
1	S3	195	THR
1	S3	329	ASN
1	S3	476	ASP
1	S4	5	THR
1	S4	29	ILE
1	S4	39	ILE
1	S4	44	VAL
1	S4	53	THR
1	S4	77	THR
1	S4	110	VAL
1	S4	142	ILE
1	S4	151	LEU
1	S4	165	THR
1	S4	170	ILE
1	S4	173	ILE
1	S4	184	THR
1	S4	195	THR
1	S4	230	LEU

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Mol	Chain	Res	Type
1	S4	246	THR
1	S4	357	ASP
1	S4	471	THR
1	S4	478	ASP
1	S5	5	THR
1	S5	23	THR
1	S5	29	ILE
1	S5	32	VAL
1	S5	58	LEU
1	S5	60	ILE
1	S5	77	THR
1	S5	98	THR
1	S5	110	VAL
1	S5	131	THR
1	S5	142	ILE
1	S5	165	THR
1	S5	170	ILE
1	S5	184	THR
1	S5	195	THR
1	S5	210	ILE
1	S5	228	ILE
1	S5	246	THR
1	S5	266	THR
1	S5	457	LEU
1	S5	517	ILE
1	S6	5	THR
1	S6	19	ASP
1	S6	23	THR
1	S6	29	ILE
1	S6	31	ASP
1	S6	44	VAL
1	S6	66	VAL
1	S6	85	LEU
1	S6	98	THR
1	S6	110	VAL
1	S6	134	SER
1	S6	195	THR
1	S6	228	ILE
1	S6	230	LEU
1	S6	266	THR
1	S6	314	ASN
1	S6	462	ASN

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Mol	Chain	Res	Type
1	S6	479	ASN
1	S6	491	ASP
1	S7	29	ILE
1	S7	44	VAL
1	S7	45	ASN
1	S7	47	VAL
1	S7	85	LEU
1	S7	110	VAL
1	S7	117	THR
1	S7	142	ILE
1	S7	172	LEU
1	S7	185	GLU
1	S7	195	THR
1	S7	210	ILE
1	S7	228	ILE
1	S7	329	ASN
1	S7	454	HIS
1	S7	486	ASP
1	S8	21	THR
1	S8	23	THR
1	S8	24	ASN
1	S8	29	ILE
1	S8	32	VAL
1	S8	60	ILE
1	S8	73	THR
1	S8	74	LYS
1	S8	77	THR
1	S8	110	VAL
1	S8	116	ILE
1	S8	117	THR
1	S8	141	VAL
1	S8	142	ILE
1	S8	151	LEU
1	S8	172	LEU
1	S8	176	ILE
1	S8	190	VAL
1	S8	195	THR
1	S8	228	ILE
1	S8	462	ASN
1	S8	476	ASP
1	SA	23	THR
1	SA	32	VAL

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Mol	Chain	Res	Type
1	SA	45	ASN
1	SA	47	VAL
1	SA	49	ASP
1	SA	58	LEU
1	SA	60	ILE
1	SA	73	THR
1	SA	77	THR
1	SA	110	VAL
1	SA	117	THR
1	SA	141	VAL
1	SA	142	ILE
1	SA	158	THR
1	SA	190	VAL
1	SA	195	THR
1	SA	220	SER
1	SA	228	ILE
1	SA	266	THR
1	SA	517	ILE
1	SO	5	THR
1	SO	29	ILE
1	SO	32	VAL
1	SO	45	ASN
1	SO	47	VAL
1	SO	58	LEU
1	SO	60	ILE
1	SO	77	THR
1	SO	98	THR
1	SO	110	VAL
1	SO	131	THR
1	SO	142	ILE
1	SO	151	LEU
1	SO	158	THR
1	SO	165	THR
1	SO	170	ILE
1	SO	184	THR
1	SO	195	THR
1	SO	210	ILE
1	SO	228	ILE
1	SO	246	THR
1	SO	289	GLN
1	SO	295	ILE
1	SO	517	ILE

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Mol	Chain	Res	Type
1	SP	19	ASP
1	SP	23	THR
1	SP	29	ILE
1	SP	44	VAL
1	SP	48	PRO
1	SP	85	LEU
1	SP	110	VAL
1	SP	117	THR
1	SP	142	ILE
1	SP	172	LEU
1	SP	185	GLU
1	SP	195	THR
1	SP	210	ILE
1	SP	228	ILE
1	SP	230	LEU
1	SP	329	ASN
1	SP	454	HIS
1	SP	471	THR
1	SP	486	ASP
1	SQ	16	VAL
1	SQ	23	THR
1	SQ	29	ILE
1	SQ	32	VAL
1	SQ	58	LEU
1	SQ	60	ILE
1	SQ	73	THR
1	SQ	77	THR
1	SQ	91	THR
1	SQ	110	VAL
1	SQ	117	THR
1	SQ	141	VAL
1	SQ	142	ILE
1	SQ	143	LYS
1	SQ	158	THR
1	SQ	161	THR
1	SQ	172	LEU
1	SQ	190	VAL
1	SQ	195	THR
1	SQ	228	ILE
1	SQ	471	THR
1	SQ	491	ASP
1	Sv	5	THR

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Mol	Chain	Res	Type
1	Sv	7	GLN
1	Sv	29	ILE
1	Sv	44	VAL
1	Sv	45	ASN
1	Sv	47	VAL
1	Sv	53	THR
1	Sv	60	ILE
1	Sv	77	THR
1	Sv	98	THR
1	Sv	110	VAL
1	Sv	142	ILE
1	Sv	151	LEU
1	Sv	165	THR
1	Sv	170	ILE
1	Sv	173	ILE
1	Sv	184	THR
1	Sv	195	THR
1	Sv	228	ILE
1	Sv	230	LEU
1	Sv	246	THR
1	Sv	357	ASP
1	Sv	439	ILE
1	Sv	478	ASP
1	Sw	5	THR
1	Sw	23	THR
1	Sw	29	ILE
1	Sw	32	VAL
1	Sw	58	LEU
1	Sw	77	THR
1	Sw	98	THR
1	Sw	110	VAL
1	Sw	131	THR
1	Sw	142	ILE
1	Sw	158	THR
1	Sw	165	THR
1	Sw	170	ILE
1	Sw	184	THR
1	Sw	195	THR
1	Sw	210	ILE
1	Sw	228	ILE
1	Sw	246	THR
1	Sw	266	THR

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Mol	Chain	Res	Type
1	Sw	517	ILE
1	Sx	5	THR
1	Sx	9	VAL
1	Sx	19	ASP
1	Sx	23	THR
1	Sx	29	ILE
1	Sx	31	ASP
1	Sx	85	LEU
1	Sx	110	VAL
1	Sx	142	ILE
1	Sx	167	GLN
1	Sx	195	THR
1	Sx	228	ILE
1	Sx	230	LEU
1	Sx	266	THR
1	Sx	462	ASN
1	Sx	479	ASN
1	Sx	491	ASP
1	Sy	19	ASP
1	Sy	29	ILE
1	Sy	85	LEU
1	Sy	110	VAL
1	Sy	117	THR
1	Sy	142	ILE
1	Sy	172	LEU
1	Sy	195	THR
1	Sy	210	ILE
1	Sy	228	ILE
1	Sy	266	THR
1	Sy	329	ASN
1	Sy	454	HIS
1	Sy	471	THR
1	Sy	486	ASP
1	Sz	11	ASN
1	Sz	19	ASP
1	Sz	29	ILE
1	Sz	32	VAL
1	Sz	60	ILE
1	Sz	73	THR
1	Sz	77	THR
1	Sz	110	VAL
1	Sz	116	ILE

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Mol	Chain	Res	Type
1	Sz	117	THR
1	Sz	125	LEU
1	Sz	141	VAL
1	Sz	142	ILE
1	Sz	144	ILE
1	Sz	172	LEU
1	Sz	176	ILE
1	Sz	190	VAL
1	Sz	228	ILE
1	Sz	462	ASN
1	Sz	476	ASP
2	T1	20	THR
2	T1	50	VAL
2	T1	77	THR
2	T1	113	ASN
2	T1	157	THR
2	T1	164	ILE
2	T1	230	VAL
2	T2	20	THR
2	T2	24	LEU
2	T2	50	VAL
2	T2	77	THR
2	T2	92	VAL
2	T2	122	LEU
2	T2	157	THR
2	T2	164	ILE
2	T2	209	VAL
2	T2	221	ILE
2	T2	230	VAL
2	T2	255	SER
2	T3	20	THR
2	T3	50	VAL
2	T3	60	ILE
2	T3	157	THR
2	T3	221	ILE
2	T4	20	THR
2	T4	50	VAL
2	T4	157	THR
2	T4	164	ILE
2	T4	230	VAL
2	T4	244	THR
2	T5	23	ILE

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Mol	Chain	Res	Type
2	T5	24	LEU
2	T5	50	VAL
2	T5	157	THR
2	T5	164	ILE
2	T5	202	LEU
2	T6	20	THR
2	T6	23	ILE
2	T6	24	LEU
2	T6	50	VAL
2	T6	77	THR
2	T6	92	VAL
2	T6	122	LEU
2	T6	157	THR
2	T6	164	ILE
2	T6	209	VAL
2	T6	230	VAL
2	T6	255	SER
2	T7	20	THR
2	T7	24	LEU
2	T7	50	VAL
2	T7	92	VAL
2	T7	157	THR
2	T7	164	ILE
2	T7	181	ILE
2	T7	202	LEU
2	T7	221	ILE
2	T7	222	LEU
2	T7	230	VAL
2	T7	244	THR
2	T8	20	THR
2	T8	50	VAL
2	T8	60	ILE
2	T8	157	THR
2	T8	202	LEU
2	T9	20	THR
2	T9	23	ILE
2	T9	50	VAL
2	T9	138	VAL
2	T9	157	THR
2	T9	164	ILE
2	T9	202	LEU
2	TF	24	LEU

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Mol	Chain	Res	Type
2	TF	50	VAL
2	TF	123	THR
2	TF	157	THR
2	TF	164	ILE
2	TF	202	LEU
2	TF	230	VAL
2	TG	20	THR
2	TG	50	VAL
2	TG	72	ILE
2	TG	92	VAL
2	TG	157	THR
2	TG	164	ILE
2	TG	202	LEU
2	TG	221	ILE
2	TG	222	LEU
2	TG	230	VAL
2	TG	244	THR
2	TH	23	ILE
2	TH	50	VAL
2	TH	138	VAL
2	TH	157	THR
2	TH	164	ILE
2	TH	202	LEU
2	TH	244	THR
2	Td	20	THR
2	Td	23	ILE
2	Td	50	VAL
2	Td	77	THR
2	Td	146	VAL
2	Td	157	THR
2	Td	164	ILE
2	Td	202	LEU
2	Td	230	VAL
2	Td	244	THR
2	Te	20	THR
2	Te	24	LEU
2	Te	50	VAL
2	Te	77	THR
2	Te	157	THR
2	Tf	20	THR
2	Tf	24	LEU
2	Tf	50	VAL

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Mol	Chain	Res	Type
2	Tf	77	THR
2	Tf	92	VAL
2	Tf	122	LEU
2	Tf	157	THR
2	Tf	164	ILE
2	Tf	202	LEU
2	Tf	209	VAL
2	Tf	230	VAL
2	Tg	20	THR
2	Tg	50	VAL
2	Tg	77	THR
2	Tg	92	VAL
2	Tg	118	VAL
2	Tg	157	THR
2	Tg	164	ILE
2	Tg	202	LEU
2	Tg	222	LEU
2	Tg	230	VAL
2	Tg	244	THR
2	Th	20	THR
2	Th	50	VAL
2	Th	157	THR
2	Th	202	LEU
2	Ti	23	ILE
2	Ti	50	VAL
2	Ti	118	VAL
2	Ti	138	VAL
2	Ti	157	THR
2	Ti	164	ILE
2	Ti	202	LEU
2	Ti	222	LEU
3	UL	10	VAL
3	UL	16	ASP
3	UL	148	ASP
3	UL	173	THR
3	UL	183	ILE
3	UM	10	VAL
3	UM	16	ASP
3	UM	148	ASP
3	UN	10	VAL
3	UN	173	THR
3	Up	10	VAL

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Mol	Chain	Res	Type
3	Up	77	VAL
3	Up	94	VAL
3	Uq	10	VAL
3	Uq	16	ASP
3	Uq	148	ASP
3	Uq	173	THR
3	Ur	4	LEU
3	Ur	10	VAL
3	Ur	14	LEU
3	Ur	148	ASP
3	Us	4	LEU
3	Us	10	VAL
3	Us	16	ASP
3	Us	93	THR
3	Us	148	ASP
3	Us	183	ILE
3	Ut	10	VAL
3	Ut	38	VAL
3	Ut	148	ASP
3	Uu	10	VAL
3	Uu	173	THR
3	VL	10	VAL
3	VL	77	VAL
3	VM	3	LEU
3	VM	4	LEU
3	VM	10	VAL
3	VN	10	VAL
3	VN	38	VAL
3	VN	148	ASP
3	VN	151	THR
3	VN	173	THR
3	Vp	10	VAL
3	Vp	28	ASP
3	Vp	38	VAL
3	Vp	73	ASN
3	Vp	94	VAL
3	Vq	10	VAL
3	Vq	16	ASP
3	Vq	148	ASP
3	Vq	173	THR
3	Vq	183	ILE
3	Vr	3	LEU

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Mol	Chain	Res	Type
3	Vr	4	LEU
3	Vr	10	VAL
3	Vr	148	ASP
3	Vr	158	VAL
3	Vs	4	LEU
3	Vs	10	VAL
3	Vs	16	ASP
3	Vs	93	THR
3	Vs	148	ASP
3	Vs	173	THR
3	Vs	183	ILE
3	Vt	10	VAL
3	Vt	148	ASP
3	Vt	173	THR
3	Vu	10	VAL
3	Vu	168	LEU
3	Vu	173	THR
4	WI	5	ILE
4	WI	9	ASN
4	WI	90	ASN
4	WI	93	ILE
4	WI	101	THR
4	WI	104	VAL
4	WI	107	VAL
4	WI	117	ILE
4	WI	124	VAL
4	WI	128	VAL
4	WI	132	ASP
4	WI	155	THR
4	WI	158	ASP
4	WI	171	VAL
4	WI	193	VAL
4	WI	230	ILE
4	WI	251	VAL
4	WI	282	VAL
4	WI	298	LEU
4	WI	299	ILE
4	WI	304	ILE
4	WI	311	VAL
4	WI	317	LEU
4	WI	326	MET
4	WI	331	CYS

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Mol	Chain	Res	Type
4	WI	332	VAL
4	WI	365	ILE
4	WI	367	GLU
4	WI	368	ILE
4	WI	374	VAL
4	WI	380	ILE
4	WI	388	ASN
4	WI	547	ASN
4	WI	558	ASP
4	WJ	5	ILE
4	WJ	7	ILE
4	WJ	15	THR
4	WJ	18	TYR
4	WJ	42	VAL
4	WJ	59	THR
4	WJ	78	THR
4	WJ	93	ILE
4	WJ	99	PHE
4	WJ	101	THR
4	WJ	107	VAL
4	WJ	117	ILE
4	WJ	132	ASP
4	WJ	136	VAL
4	WJ	149	LYS
4	WJ	150	GLN
4	WJ	151	ILE
4	WJ	162	VAL
4	WJ	171	VAL
4	WJ	186	TYR
4	WJ	196	ARG
4	WJ	205	VAL
4	WJ	271	THR
4	WJ	275	SER
4	WJ	277	GLU
4	WJ	285	LEU
4	WJ	299	ILE
4	WJ	311	VAL
4	WJ	326	MET
4	WJ	331	CYS
4	WJ	357	SER
4	WJ	369	LEU
4	WJ	374	VAL

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Mol	Chain	Res	Type
4	WJ	380	ILE
4	WJ	446	VAL
4	WJ	555	CYS
4	WK	18	TYR
4	WK	24	ILE
4	WK	42	VAL
4	WK	59	THR
4	WK	63	GLU
4	WK	70	ILE
4	WK	92	VAL
4	WK	104	VAL
4	WK	117	ILE
4	WK	132	ASP
4	WK	136	VAL
4	WK	146	VAL
4	WK	149	LYS
4	WK	150	GLN
4	WK	151	ILE
4	WK	153	LYS
4	WK	154	ILE
4	WK	159	ILE
4	WK	171	VAL
4	WK	193	VAL
4	WK	195	HIS
4	WK	226	ASP
4	WK	248	MET
4	WK	271	THR
4	WK	277	GLU
4	WK	280	ILE
4	WK	304	ILE
4	WK	305	ASN
4	WK	309	LEU
4	WK	311	VAL
4	WK	326	MET
4	WK	331	CYS
4	WK	348	THR
4	WK	357	SER
4	WK	363	ASN
4	WK	365	ILE
4	WK	382	ASN
4	WK	395	THR
4	WK	406	LEU

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Mol	Chain	Res	Type
4	WK	408	VAL
4	WK	486	VAL
4	WK	556	GLN
4	WK	558	ASP
4	Wj	5	ILE
4	Wj	30	PHE
4	Wj	42	VAL
4	Wj	59	THR
4	Wj	60	LEU
4	Wj	63	GLU
4	Wj	97	ASP
4	Wj	99	PHE
4	Wj	104	VAL
4	Wj	107	VAL
4	Wj	117	ILE
4	Wj	132	ASP
4	Wj	146	VAL
4	Wj	151	ILE
4	Wj	155	THR
4	Wj	171	VAL
4	Wj	193	VAL
4	Wj	259	THR
4	Wj	271	THR
4	Wj	276	LEU
4	Wj	282	VAL
4	Wj	309	LEU
4	Wj	311	VAL
4	Wj	317	LEU
4	Wj	326	MET
4	Wj	331	CYS
4	Wj	365	ILE
4	Wj	367	GLU
4	Wj	368	ILE
4	Wj	380	ILE
4	Wj	382	ASN
4	Wj	388	ASN
4	Wj	397	ASP
4	Wj	558	ASP
4	Wj	561	GLU
4	Wk	5	ILE
4	Wk	9	ASN
4	Wk	19	LEU

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Mol	Chain	Res	Type
4	Wk	60	LEU
4	Wk	61	THR
4	Wk	90	ASN
4	Wk	93	ILE
4	Wk	104	VAL
4	Wk	107	VAL
4	Wk	117	ILE
4	Wk	128	VAL
4	Wk	132	ASP
4	Wk	135	LEU
4	Wk	148	ASN
4	Wk	155	THR
4	Wk	171	VAL
4	Wk	193	VAL
4	Wk	230	ILE
4	Wk	251	VAL
4	Wk	282	VAL
4	Wk	298	LEU
4	Wk	299	ILE
4	Wk	304	ILE
4	Wk	311	VAL
4	Wk	317	LEU
4	Wk	326	MET
4	Wk	331	CYS
4	Wk	365	ILE
4	Wk	367	GLU
4	Wk	368	ILE
4	Wk	374	VAL
4	Wk	376	GLU
4	Wk	380	ILE
4	Wk	382	ASN
4	Wl	5	ILE
4	Wl	7	ILE
4	Wl	18	TYR
4	Wl	42	VAL
4	Wl	64	TRP
4	Wl	93	ILE
4	Wl	101	THR
4	Wl	104	VAL
4	Wl	107	VAL
4	Wl	117	ILE
4	Wl	132	ASP

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Mol	Chain	Res	Type
4	Wl	149	LYS
4	Wl	153	LYS
4	Wl	154	ILE
4	Wl	161	ASN
4	Wl	162	VAL
4	Wl	171	VAL
4	Wl	196	ARG
4	Wl	240	ASP
4	Wl	265	LEU
4	Wl	271	THR
4	Wl	276	LEU
4	Wl	282	VAL
4	Wl	299	ILE
4	Wl	311	VAL
4	Wl	326	MET
4	Wl	331	CYS
4	Wl	335	ASP
4	Wl	340	VAL
4	Wl	342	CYS
4	Wl	344	VAL
4	Wl	380	ILE
4	Wl	399	ILE
4	Wl	581	THR
4	Wm	5	ILE
4	Wm	7	ILE
4	Wm	18	TYR
4	Wm	61	THR
4	Wm	77	VAL
4	Wm	78	THR
4	Wm	93	ILE
4	Wm	107	VAL
4	Wm	116	THR
4	Wm	117	ILE
4	Wm	132	ASP
4	Wm	136	VAL
4	Wm	149	LYS
4	Wm	151	ILE
4	Wm	153	LYS
4	Wm	154	ILE
4	Wm	162	VAL
4	Wm	171	VAL
4	Wm	186	TYR

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Mol	Chain	Res	Type
4	Wm	193	VAL
4	Wm	196	ARG
4	Wm	238	ILE
4	Wm	271	THR
4	Wm	276	LEU
4	Wm	285	LEU
4	Wm	294	SER
4	Wm	299	ILE
4	Wm	309	LEU
4	Wm	311	VAL
4	Wm	317	LEU
4	Wm	324	VAL
4	Wm	326	MET
4	Wm	331	CYS
4	Wm	335	ASP
4	Wm	374	VAL
4	Wm	380	ILE
4	Wm	390	LEU
4	Wm	399	ILE
4	Wm	405	ASN
4	Wm	560	ASP
4	Wm	581	THR
4	Wn	7	ILE
4	Wn	18	TYR
4	Wn	24	ILE
4	Wn	39	ASP
4	Wn	59	THR
4	Wn	63	GLU
4	Wn	93	ILE
4	Wn	99	PHE
4	Wn	117	ILE
4	Wn	132	ASP
4	Wn	136	VAL
4	Wn	150	GLN
4	Wn	151	ILE
4	Wn	153	LYS
4	Wn	154	ILE
4	Wn	193	VAL
4	Wn	226	ASP
4	Wn	277	GLU
4	Wn	282	VAL
4	Wn	305	ASN

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Mol	Chain	Res	Type
4	Wn	311	VAL
4	Wn	326	MET
4	Wn	335	ASP
4	Wn	342	CYS
4	Wn	352	SER
4	Wn	353	HIS
4	Wn	354	THR
4	Wn	365	ILE
4	Wn	380	ILE
4	Wn	384	THR
4	Wn	390	LEU
4	Wn	395	THR
4	Wn	408	VAL
4	Wn	556	GLN
4	Wn	558	ASP
4	Wn	560	ASP
4	Wn	565	ILE
4	Wn	587	THR
4	Wo	12	ASP
4	Wo	15	THR
4	Wo	18	TYR
4	Wo	42	VAL
4	Wo	59	THR
4	Wo	60	LEU
4	Wo	70	ILE
4	Wo	92	VAL
4	Wo	104	VAL
4	Wo	117	ILE
4	Wo	132	ASP
4	Wo	136	VAL
4	Wo	146	VAL
4	Wo	150	GLN
4	Wo	151	ILE
4	Wo	153	LYS
4	Wo	154	ILE
4	Wo	155	THR
4	Wo	171	VAL
4	Wo	191	ILE
4	Wo	193	VAL
4	Wo	226	ASP
4	Wo	248	MET
4	Wo	265	LEU

Continued on next page...

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Mol	Chain	Res	Type
4	Wo	277	GLU
4	Wo	280	ILE
4	Wo	285	LEU
4	Wo	298	LEU
4	Wo	304	ILE
4	Wo	305	ASN
4	Wo	309	LEU
4	Wo	311	VAL
4	Wo	326	MET
4	Wo	331	CYS
4	Wo	348	THR
4	Wo	357	SER
4	Wo	363	ASN
4	Wo	365	ILE
4	Wo	380	ILE
4	Wo	382	ASN
4	Wo	390	LEU
4	Wo	395	THR
4	Wo	408	VAL
4	Wo	486	VAL
4	Wo	488	VAL
4	Wo	556	GLN
4	Wo	558	ASP
4	Wo	593	ILE
4	XI	5	ILE
4	XI	19	LEU
4	XI	30	PHE
4	XI	42	VAL
4	XI	60	LEU
4	XI	61	THR
4	XI	63	GLU
4	XI	79	ILE
4	XI	92	VAL
4	XI	97	ASP
4	XI	99	PHE
4	XI	104	VAL
4	XI	107	VAL
4	XI	117	ILE
4	XI	132	ASP
4	XI	146	VAL
4	XI	151	ILE
4	XI	155	THR

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Mol	Chain	Res	Type
4	XI	171	VAL
4	XI	193	VAL
4	XI	221	GLU
4	XI	232	LEU
4	XI	259	THR
4	XI	271	THR
4	XI	276	LEU
4	XI	277	GLU
4	XI	282	VAL
4	XI	309	LEU
4	XI	311	VAL
4	XI	317	LEU
4	XI	326	MET
4	XI	331	CYS
4	XI	365	ILE
4	XI	367	GLU
4	XI	368	ILE
4	XI	375	PHE
4	XI	380	ILE
4	XI	382	ASN
4	XI	397	ASP
4	XI	558	ASP
4	XJ	5	ILE
4	XJ	7	ILE
4	XJ	26	ILE
4	XJ	42	VAL
4	XJ	59	THR
4	XJ	61	THR
4	XJ	63	GLU
4	XJ	64	TRP
4	XJ	93	ILE
4	XJ	101	THR
4	XJ	104	VAL
4	XJ	107	VAL
4	XJ	117	ILE
4	XJ	132	ASP
4	XJ	136	VAL
4	XJ	150	GLN
4	XJ	151	ILE
4	XJ	154	ILE
4	XJ	161	ASN
4	XJ	162	VAL

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Mol	Chain	Res	Type
4	XJ	186	TYR
4	XJ	191	ILE
4	XJ	196	ARG
4	XJ	240	ASP
4	XJ	263	ILE
4	XJ	271	THR
4	XJ	280	ILE
4	XJ	282	VAL
4	XJ	299	ILE
4	XJ	311	VAL
4	XJ	324	VAL
4	XJ	326	MET
4	XJ	331	CYS
4	XJ	332	VAL
4	XJ	335	ASP
4	XJ	340	VAL
4	XJ	342	CYS
4	XJ	344	VAL
4	XJ	358	VAL
4	XJ	369	LEU
4	XJ	380	ILE
4	XJ	383	ILE
4	XJ	399	ILE
4	XJ	581	THR
4	XK	7	ILE
4	XK	18	TYR
4	XK	24	ILE
4	XK	60	LEU
4	XK	63	GLU
4	XK	93	ILE
4	XK	104	VAL
4	XK	105	ASN
4	XK	107	VAL
4	XK	117	ILE
4	XK	132	ASP
4	XK	149	LYS
4	XK	150	GLN
4	XK	153	LYS
4	XK	154	ILE
4	XK	193	VAL
4	XK	221	GLU
4	XK	226	ASP

Continued on next page...

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Mol	Chain	Res	Type
4	XK	282	VAL
4	XK	305	ASN
4	XK	309	LEU
4	XK	311	VAL
4	XK	320	LEU
4	XK	326	MET
4	XK	335	ASP
4	XK	342	CYS
4	XK	348	THR
4	XK	352	SER
4	XK	353	HIS
4	XK	365	ILE
4	XK	374	VAL
4	XK	380	ILE
4	XK	384	THR
4	XK	390	LEU
4	XK	395	THR
4	XK	404	ASP
4	XK	405	ASN
4	XK	408	VAL
4	XK	486	VAL
4	XK	556	GLN
4	XK	558	ASP
4	XK	560	ASP
4	XK	565	ILE
4	Xj	5	ILE
4	Xj	9	ASN
4	Xj	19	LEU
4	Xj	30	PHE
4	Xj	42	VAL
4	Xj	60	LEU
4	Xj	61	THR
4	Xj	63	GLU
4	Xj	79	ILE
4	Xj	90	ASN
4	Xj	92	VAL
4	Xj	97	ASP
4	Xj	98	VAL
4	Xj	99	PHE
4	Xj	104	VAL
4	Xj	107	VAL
4	Xj	132	ASP

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Mol	Chain	Res	Type
4	Xj	146	VAL
4	Xj	151	ILE
4	Xj	155	THR
4	Xj	171	VAL
4	Xj	193	VAL
4	Xj	252	SER
4	Xj	259	THR
4	Xj	271	THR
4	Xj	276	LEU
4	Xj	280	ILE
4	Xj	282	VAL
4	Xj	311	VAL
4	Xj	317	LEU
4	Xj	326	MET
4	Xj	331	CYS
4	Xj	365	ILE
4	Xj	367	GLU
4	Xj	368	ILE
4	Xj	380	ILE
4	Xj	382	ASN
4	Xj	388	ASN
4	Xj	397	ASP
4	Xj	558	ASP
4	Xk	5	ILE
4	Xk	9	ASN
4	Xk	17	ASP
4	Xk	19	LEU
4	Xk	60	LEU
4	Xk	88	ASP
4	Xk	90	ASN
4	Xk	93	ILE
4	Xk	101	THR
4	Xk	104	VAL
4	Xk	107	VAL
4	Xk	117	ILE
4	Xk	128	VAL
4	Xk	132	ASP
4	Xk	148	ASN
4	Xk	155	THR
4	Xk	171	VAL
4	Xk	193	VAL
4	Xk	198	ASN

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Mol	Chain	Res	Type
4	Xk	230	ILE
4	Xk	251	VAL
4	Xk	282	VAL
4	Xk	285	LEU
4	Xk	299	ILE
4	Xk	304	ILE
4	Xk	311	VAL
4	Xk	317	LEU
4	Xk	326	MET
4	Xk	331	CYS
4	Xk	335	ASP
4	Xk	365	ILE
4	Xk	367	GLU
4	Xk	368	ILE
4	Xk	374	VAL
4	Xk	376	GLU
4	Xk	380	ILE
4	Xk	382	ASN
4	Xk	477	SER
4	Xk	558	ASP
4	Xl	5	ILE
4	Xl	7	ILE
4	Xl	42	VAL
4	Xl	61	THR
4	Xl	93	ILE
4	Xl	107	VAL
4	Xl	117	ILE
4	Xl	132	ASP
4	Xl	149	LYS
4	Xl	153	LYS
4	Xl	154	ILE
4	Xl	161	ASN
4	Xl	162	VAL
4	Xl	191	ILE
4	Xl	196	ARG
4	Xl	240	ASP
4	Xl	271	THR
4	Xl	276	LEU
4	Xl	282	VAL
4	Xl	299	ILE
4	Xl	311	VAL
4	Xl	326	MET

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Mol	Chain	Res	Type
4	Xl	331	CYS
4	Xl	332	VAL
4	Xl	335	ASP
4	Xl	340	VAL
4	Xl	342	CYS
4	Xl	344	VAL
4	Xl	369	LEU
4	Xl	380	ILE
4	Xl	399	ILE
4	Xl	405	ASN
4	Xl	547	ASN
4	Xl	581	THR
4	Xm	5	ILE
4	Xm	7	ILE
4	Xm	15	THR
4	Xm	18	TYR
4	Xm	42	VAL
4	Xm	61	THR
4	Xm	63	GLU
4	Xm	93	ILE
4	Xm	98	VAL
4	Xm	101	THR
4	Xm	107	VAL
4	Xm	116	THR
4	Xm	117	ILE
4	Xm	124	VAL
4	Xm	132	ASP
4	Xm	136	VAL
4	Xm	149	LYS
4	Xm	150	GLN
4	Xm	151	ILE
4	Xm	162	VAL
4	Xm	171	VAL
4	Xm	186	TYR
4	Xm	193	VAL
4	Xm	196	ARG
4	Xm	271	THR
4	Xm	276	LEU
4	Xm	285	LEU
4	Xm	299	ILE
4	Xm	309	LEU
4	Xm	311	VAL

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Mol	Chain	Res	Type
4	Xm	317	LEU
4	Xm	324	VAL
4	Xm	326	MET
4	Xm	331	CYS
4	Xm	368	ILE
4	Xm	380	ILE
4	Xm	390	LEU
4	Xm	399	ILE
4	Xm	547	ASN
4	Xm	555	CYS
4	Xn	7	ILE
4	Xn	24	ILE
4	Xn	42	VAL
4	Xn	63	GLU
4	Xn	93	ILE
4	Xn	101	THR
4	Xn	107	VAL
4	Xn	117	ILE
4	Xn	132	ASP
4	Xn	143	TRP
4	Xn	150	GLN
4	Xn	152	ASP
4	Xn	153	LYS
4	Xn	154	ILE
4	Xn	193	VAL
4	Xn	204	ASP
4	Xn	221	GLU
4	Xn	226	ASP
4	Xn	276	LEU
4	Xn	277	GLU
4	Xn	281	TYR
4	Xn	305	ASN
4	Xn	309	LEU
4	Xn	311	VAL
4	Xn	326	MET
4	Xn	331	CYS
4	Xn	335	ASP
4	Xn	342	CYS
4	Xn	348	THR
4	Xn	353	HIS
4	Xn	363	ASN
4	Xn	365	ILE

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Mol	Chain	Res	Type
4	Xn	374	VAL
4	Xn	380	ILE
4	Xn	382	ASN
4	Xn	384	THR
4	Xn	390	LEU
4	Xn	395	THR
4	Xn	404	ASP
4	Xn	405	ASN
4	Xn	408	VAL
4	Xn	556	GLN
4	Xn	558	ASP
4	Xn	560	ASP
4	Xo	15	THR
4	Xo	18	TYR
4	Xo	24	ILE
4	Xo	42	VAL
4	Xo	59	THR
4	Xo	61	THR
4	Xo	63	GLU
4	Xo	92	VAL
4	Xo	93	ILE
4	Xo	104	VAL
4	Xo	117	ILE
4	Xo	132	ASP
4	Xo	136	VAL
4	Xo	146	VAL
4	Xo	150	GLN
4	Xo	151	ILE
4	Xo	171	VAL
4	Xo	191	ILE
4	Xo	193	VAL
4	Xo	226	ASP
4	Xo	230	ILE
4	Xo	248	MET
4	Xo	265	LEU
4	Xo	271	THR
4	Xo	277	GLU
4	Xo	279	SER
4	Xo	285	LEU
4	Xo	304	ILE
4	Xo	305	ASN
4	Xo	309	LEU

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Mol	Chain	Res	Type
4	Xo	311	VAL
4	Xo	317	LEU
4	Xo	326	MET
4	Xo	331	CYS
4	Xo	357	SER
4	Xo	363	ASN
4	Xo	380	ILE
4	Xo	382	ASN
4	Xo	390	LEU
4	Xo	395	THR
4	Xo	408	VAL
4	Xo	486	VAL
4	Xo	556	GLN
4	Xo	558	ASP
5	YC	9	THR
5	YC	12	ARG
5	YC	21	VAL
5	YC	38	ILE
5	YC	44	ASN
5	YC	47	GLU
5	YC	52	ASN
5	YC	61	TYR
5	YC	64	ASN
5	YC	80	ILE
5	YC	103	PHE
5	YC	123	ILE
5	YC	135	VAL
5	YC	137	PHE
5	YC	139	ASN
5	YC	146	LEU
5	YC	159	ASP
5	YC	168	ILE
5	YC	173	TYR
5	YC	174	HIS
5	YC	176	ILE
5	YC	180	ILE
5	YC	202	PHE
5	YC	212	SER
5	YC	214	ASP
5	YC	224	LEU
5	YC	233	LEU
5	YC	235	LYS

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Mol	Chain	Res	Type
5	YC	236	THR
5	YC	237	VAL
5	YC	244	THR
5	YC	247	VAL
5	YC	248	LEU
5	YC	255	TYR
5	YC	258	LYS
5	YC	293	ILE
5	YC	296	THR
5	YC	300	LEU
5	YC	304	VAL
5	YC	311	ILE
5	YC	312	THR
5	YC	321	VAL
5	YC	326	VAL
5	YC	330	LYS
5	YC	335	LEU
5	YC	336	ILE
5	YC	339	ASP
5	YC	341	LEU
5	YC	347	GLU
5	YC	348	ARG
5	YC	349	LEU
5	YC	350	PHE
5	YC	351	GLU
5	YC	355	MET
5	YC	369	ASP
5	YC	375	VAL
5	YC	379	ILE
5	YC	403	ILE
5	YC	406	LEU
5	YC	412	THR
5	YC	414	LYS
5	YC	415	ARG
5	YC	454	ASN
5	YC	461	THR
5	YC	473	TYR
5	YC	507	LYS
5	YC	533	VAL
5	YC	534	VAL
5	YC	535	VAL
5	YC	538	ASP

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Mol	Chain	Res	Type
5	YC	546	GLU
5	YC	548	ILE
5	YC	552	SER
5	YC	556	LEU
5	YC	559	GLU
5	YC	563	ASP
5	YC	566	CYS
5	YC	567	THR
5	YC	569	VAL
5	YC	586	LEU
5	YC	589	LYS
5	YC	600	PHE
5	YC	608	VAL
5	YC	611	ILE
5	YC	615	THR
5	YC	625	ASN
5	YC	627	GLU
5	YC	629	GLU
5	YC	645	LEU
5	YC	646	ARG
5	YC	696	ARG
5	YC	704	LEU
5	YC	713	ILE
5	YC	714	TYR
5	YC	721	ASP
5	YC	733	ASP
5	YC	745	LYS
5	YC	752	TYR
5	YC	758	ILE
5	YC	780	ASP
5	YC	782	VAL
5	YC	785	THR
5	YC	807	LEU
5	YC	808	GLN
5	YC	810	THR
5	YC	816	LEU
5	YC	817	LEU
5	YC	826	VAL
5	YC	827	LYS
5	YC	835	GLU
5	YC	838	ILE
5	YC	846	ASP

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Mol	Chain	Res	Type
5	YC	848	LEU
5	YC	851	ASN
5	YC	852	ILE
5	YC	853	ASP
5	YC	866	ILE
5	YC	886	VAL
5	YC	894	THR
5	YC	895	LEU
5	YC	896	LEU
5	YC	900	ILE
5	YC	907	LYS
5	YC	908	HIS
5	YC	909	THR
5	YC	912	ILE
5	YC	913	ILE
5	YC	917	LYS
5	YC	925	LEU
5	YC	927	THR
5	YC	928	GLU
5	YC	937	THR
5	YC	947	VAL
5	YC	950	GLU
5	YC	952	ILE
5	YC	969	TYR
5	YC	974	ASN
5	YC	977	ILE
5	YC	990	MET
5	YC	994	PHE
5	YC	1000	THR
5	YC	1003	GLN
5	YC	1012	LEU
5	YC	1016	ILE
5	YC	1026	THR
5	YC	1030	ILE
5	YX	8	VAL
5	YX	9	THR
5	YX	12	ARG
5	YX	23	VAL
5	YX	36	VAL
5	YX	38	ILE
5	YX	47	GLU
5	YX	52	ASN

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Mol	Chain	Res	Type
5	YX	64	ASN
5	YX	103	PHE
5	YX	123	ILE
5	YX	135	VAL
5	YX	146	LEU
5	YX	165	ASN
5	YX	168	ILE
5	YX	171	ASN
5	YX	174	HIS
5	YX	176	ILE
5	YX	179	SER
5	YX	201	LEU
5	YX	213	ASN
5	YX	214	ASP
5	YX	217	GLN
5	YX	235	LYS
5	YX	236	THR
5	YX	237	VAL
5	YX	245	THR
5	YX	247	VAL
5	YX	248	LEU
5	YX	250	TYR
5	YX	254	PHE
5	YX	255	TYR
5	YX	258	LYS
5	YX	287	LEU
5	YX	296	THR
5	YX	300	LEU
5	YX	304	VAL
5	YX	307	ILE
5	YX	311	ILE
5	YX	312	THR
5	YX	326	VAL
5	YX	330	LYS
5	YX	336	ILE
5	YX	339	ASP
5	YX	341	LEU
5	YX	347	GLU
5	YX	348	ARG
5	YX	349	LEU
5	YX	350	PHE
5	YX	351	GLU

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Mol	Chain	Res	Type
5	YX	355	MET
5	YX	356	THR
5	YX	369	ASP
5	YX	375	VAL
5	YX	379	ILE
5	YX	386	LEU
5	YX	396	ILE
5	YX	397	ASP
5	YX	403	ILE
5	YX	409	ASP
5	YX	410	GLU
5	YX	420	THR
5	YX	443	LEU
5	YX	482	ASP
5	YX	502	THR
5	YX	507	LYS
5	YX	515	ASN
5	YX	533	VAL
5	YX	534	VAL
5	YX	535	VAL
5	YX	546	GLU
5	YX	548	ILE
5	YX	551	THR
5	YX	556	LEU
5	YX	567	THR
5	YX	569	VAL
5	YX	589	LYS
5	YX	596	SER
5	YX	600	PHE
5	YX	608	VAL
5	YX	611	ILE
5	YX	615	THR
5	YX	625	ASN
5	YX	628	HIS
5	YX	635	GLU
5	YX	646	ARG
5	YX	653	MET
5	YX	668	CYS
5	YX	669	GLU
5	YX	673	GLN
5	YX	704	LEU
5	YX	713	ILE

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Mol	Chain	Res	Type
5	YX	714	TYR
5	YX	715	LEU
5	YX	719	LYS
5	YX	721	ASP
5	YX	733	ASP
5	YX	745	LYS
5	YX	752	TYR
5	YX	755	GLU
5	YX	775	ASP
5	YX	778	THR
5	YX	786	ILE
5	YX	808	GLN
5	YX	810	THR
5	YX	816	LEU
5	YX	817	LEU
5	YX	835	GLU
5	YX	838	ILE
5	YX	843	LYS
5	YX	848	LEU
5	YX	853	ASP
5	YX	856	ASN
5	YX	890	PHE
5	YX	894	THR
5	YX	900	ILE
5	YX	904	LEU
5	YX	907	LYS
5	YX	909	THR
5	YX	911	THR
5	YX	912	ILE
5	YX	913	ILE
5	YX	917	LYS
5	YX	925	LEU
5	YX	929	TYR
5	YX	937	THR
5	YX	947	VAL
5	YX	952	ILE
5	YX	974	ASN
5	YX	977	ILE
5	YX	982	LEU
5	YX	985	GLU
5	YX	988	LYS
5	YX	989	LEU

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Mol	Chain	Res	Type
5	YX	990	MET
5	YX	991	SER
5	YX	992	PRO
5	YX	1012	LEU
5	YX	1016	ILE
5	YX	1026	THR
5	YY	9	THR
5	YY	12	ARG
5	YY	21	VAL
5	YY	38	ILE
5	YY	44	ASN
5	YY	47	GLU
5	YY	52	ASN
5	YY	62	THR
5	YY	64	ASN
5	YY	80	ILE
5	YY	103	PHE
5	YY	123	ILE
5	YY	135	VAL
5	YY	137	PHE
5	YY	159	ASP
5	YY	163	ILE
5	YY	168	ILE
5	YY	174	HIS
5	YY	176	ILE
5	YY	180	ILE
5	YY	183	VAL
5	YY	186	ASP
5	YY	188	ASN
5	YY	196	GLU
5	YY	199	LEU
5	YY	214	ASP
5	YY	224	LEU
5	YY	233	LEU
5	YY	235	LYS
5	YY	236	THR
5	YY	237	VAL
5	YY	244	THR
5	YY	247	VAL
5	YY	248	LEU
5	YY	255	TYR
5	YY	258	LYS

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Mol	Chain	Res	Type
5	YY	293	ILE
5	YY	296	THR
5	YY	304	VAL
5	YY	311	ILE
5	YY	312	THR
5	YY	321	VAL
5	YY	326	VAL
5	YY	330	LYS
5	YY	335	LEU
5	YY	336	ILE
5	YY	339	ASP
5	YY	341	LEU
5	YY	347	GLU
5	YY	348	ARG
5	YY	349	LEU
5	YY	350	PHE
5	YY	351	GLU
5	YY	354	THR
5	YY	355	MET
5	YY	375	VAL
5	YY	379	ILE
5	YY	403	ILE
5	YY	406	LEU
5	YY	412	THR
5	YY	414	LYS
5	YY	440	LEU
5	YY	454	ASN
5	YY	473	TYR
5	YY	504	GLN
5	YY	507	LYS
5	YY	533	VAL
5	YY	535	VAL
5	YY	538	ASP
5	YY	546	GLU
5	YY	548	ILE
5	YY	552	SER
5	YY	556	LEU
5	YY	559	GLU
5	YY	563	ASP
5	YY	566	CYS
5	YY	567	THR
5	YY	569	VAL

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Mol	Chain	Res	Type
5	YY	600	PHE
5	YY	608	VAL
5	YY	611	ILE
5	YY	625	ASN
5	YY	627	GLU
5	YY	629	GLU
5	YY	645	LEU
5	YY	646	ARG
5	YY	665	GLU
5	YY	673	GLN
5	YY	696	ARG
5	YY	704	LEU
5	YY	713	ILE
5	YY	714	TYR
5	YY	715	LEU
5	YY	719	LYS
5	YY	721	ASP
5	YY	725	ARG
5	YY	733	ASP
5	YY	745	LYS
5	YY	752	TYR
5	YY	758	ILE
5	YY	769	ASP
5	YY	780	ASP
5	YY	785	THR
5	YY	795	VAL
5	YY	807	LEU
5	YY	808	GLN
5	YY	810	THR
5	YY	816	LEU
5	YY	817	LEU
5	YY	826	VAL
5	YY	835	GLU
5	YY	848	LEU
5	YY	851	ASN
5	YY	852	ILE
5	YY	853	ASP
5	YY	866	ILE
5	YY	894	THR
5	YY	895	LEU
5	YY	896	LEU
5	YY	900	ILE

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Mol	Chain	Res	Type
5	YY	907	LYS
5	YY	908	HIS
5	YY	909	THR
5	YY	911	THR
5	YY	912	ILE
5	YY	913	ILE
5	YY	917	LYS
5	YY	925	LEU
5	YY	928	GLU
5	YY	936	LEU
5	YY	937	THR
5	YY	947	VAL
5	YY	950	GLU
5	YY	952	ILE
5	YY	974	ASN
5	YY	977	ILE
5	YY	978	PHE
5	YY	982	LEU
5	YY	985	GLU
5	YY	986	ARG
5	YY	989	LEU
5	YY	990	MET
5	YY	1003	GLN
5	YY	1009	ASN
5	YY	1012	LEU
5	YY	1016	ILE
5	YY	1026	THR
5	YY	1030	ILE
5	Yc	9	THR
5	Yc	12	ARG
5	Yc	21	VAL
5	Yc	23	VAL
5	Yc	36	VAL
5	Yc	38	ILE
5	Yc	44	ASN
5	Yc	47	GLU
5	Yc	52	ASN
5	Yc	80	ILE
5	Yc	97	THR
5	Yc	103	PHE
5	Yc	123	ILE
5	Yc	135	VAL

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Mol	Chain	Res	Type
5	Yc	152	GLN
5	Yc	163	ILE
5	Yc	165	ASN
5	Yc	168	ILE
5	Yc	174	HIS
5	Yc	176	ILE
5	Yc	201	LEU
5	Yc	213	ASN
5	Yc	214	ASP
5	Yc	217	GLN
5	Yc	235	LYS
5	Yc	236	THR
5	Yc	237	VAL
5	Yc	247	VAL
5	Yc	248	LEU
5	Yc	254	PHE
5	Yc	255	TYR
5	Yc	258	LYS
5	Yc	296	THR
5	Yc	300	LEU
5	Yc	304	VAL
5	Yc	311	ILE
5	Yc	312	THR
5	Yc	326	VAL
5	Yc	330	LYS
5	Yc	335	LEU
5	Yc	336	ILE
5	Yc	339	ASP
5	Yc	341	LEU
5	Yc	347	GLU
5	Yc	348	ARG
5	Yc	349	LEU
5	Yc	350	PHE
5	Yc	351	GLU
5	Yc	355	MET
5	Yc	356	THR
5	Yc	369	ASP
5	Yc	375	VAL
5	Yc	379	ILE
5	Yc	397	ASP
5	Yc	403	ILE
5	Yc	410	GLU

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Mol	Chain	Res	Type
5	Yc	412	THR
5	Yc	416	VAL
5	Yc	420	THR
5	Yc	441	VAL
5	Yc	443	LEU
5	Yc	482	ASP
5	Yc	484	HIS
5	Yc	502	THR
5	Yc	507	LYS
5	Yc	515	ASN
5	Yc	526	ILE
5	Yc	533	VAL
5	Yc	535	VAL
5	Yc	546	GLU
5	Yc	548	ILE
5	Yc	551	THR
5	Yc	555	ARG
5	Yc	556	LEU
5	Yc	559	GLU
5	Yc	567	THR
5	Yc	569	VAL
5	Yc	589	LYS
5	Yc	596	SER
5	Yc	600	PHE
5	Yc	608	VAL
5	Yc	611	ILE
5	Yc	615	THR
5	Yc	625	ASN
5	Yc	628	HIS
5	Yc	635	GLU
5	Yc	637	GLU
5	Yc	653	MET
5	Yc	673	GLN
5	Yc	686	LEU
5	Yc	696	ARG
5	Yc	713	ILE
5	Yc	714	TYR
5	Yc	715	LEU
5	Yc	719	LYS
5	Yc	721	ASP
5	Yc	723	VAL
5	Yc	728	GLU

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Mol	Chain	Res	Type
5	Yc	733	ASP
5	Yc	745	LYS
5	Yc	752	TYR
5	Yc	755	GLU
5	Yc	756	VAL
5	Yc	758	ILE
5	Yc	769	ASP
5	Yc	775	ASP
5	Yc	778	THR
5	Yc	785	THR
5	Yc	808	GLN
5	Yc	810	THR
5	Yc	816	LEU
5	Yc	817	LEU
5	Yc	826	VAL
5	Yc	835	GLU
5	Yc	838	ILE
5	Yc	842	VAL
5	Yc	843	LYS
5	Yc	864	MET
5	Yc	883	VAL
5	Yc	890	PHE
5	Yc	894	THR
5	Yc	900	ILE
5	Yc	904	LEU
5	Yc	907	LYS
5	Yc	909	THR
5	Yc	910	GLU
5	Yc	911	THR
5	Yc	912	ILE
5	Yc	913	ILE
5	Yc	917	LYS
5	Yc	925	LEU
5	Yc	927	THR
5	Yc	928	GLU
5	Yc	937	THR
5	Yc	947	VAL
5	Yc	952	ILE
5	Yc	965	LEU
5	Yc	969	TYR
5	Yc	974	ASN
5	Yc	977	ILE

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Mol	Chain	Res	Type
5	Yc	978	PHE
5	Yc	982	LEU
5	Yc	1000	THR
5	Yc	1003	GLN
5	Yc	1012	LEU
5	Yc	1016	ILE
5	Yc	1018	ASN
5	Yc	1026	THR
5	Yx	9	THR
5	Yx	21	VAL
5	Yx	23	VAL
5	Yx	36	VAL
5	Yx	38	ILE
5	Yx	47	GLU
5	Yx	52	ASN
5	Yx	64	ASN
5	Yx	80	ILE
5	Yx	103	PHE
5	Yx	123	ILE
5	Yx	135	VAL
5	Yx	139	ASN
5	Yx	146	LEU
5	Yx	152	GLN
5	Yx	165	ASN
5	Yx	166	PHE
5	Yx	168	ILE
5	Yx	174	HIS
5	Yx	176	ILE
5	Yx	186	ASP
5	Yx	201	LEU
5	Yx	202	PHE
5	Yx	213	ASN
5	Yx	214	ASP
5	Yx	217	GLN
5	Yx	235	LYS
5	Yx	236	THR
5	Yx	237	VAL
5	Yx	247	VAL
5	Yx	248	LEU
5	Yx	250	TYR
5	Yx	251	ASP
5	Yx	254	PHE

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Mol	Chain	Res	Type
5	Yx	258	LYS
5	Yx	296	THR
5	Yx	300	LEU
5	Yx	304	VAL
5	Yx	309	GLU
5	Yx	311	ILE
5	Yx	312	THR
5	Yx	326	VAL
5	Yx	330	LYS
5	Yx	335	LEU
5	Yx	336	ILE
5	Yx	339	ASP
5	Yx	341	LEU
5	Yx	347	GLU
5	Yx	348	ARG
5	Yx	349	LEU
5	Yx	350	PHE
5	Yx	351	GLU
5	Yx	355	MET
5	Yx	356	THR
5	Yx	375	VAL
5	Yx	386	LEU
5	Yx	397	ASP
5	Yx	403	ILE
5	Yx	404	TYR
5	Yx	407	ASN
5	Yx	410	GLU
5	Yx	420	THR
5	Yx	443	LEU
5	Yx	482	ASP
5	Yx	495	THR
5	Yx	502	THR
5	Yx	507	LYS
5	Yx	515	ASN
5	Yx	530	ASP
5	Yx	533	VAL
5	Yx	534	VAL
5	Yx	535	VAL
5	Yx	546	GLU
5	Yx	548	ILE
5	Yx	551	THR
5	Yx	556	LEU

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Mol	Chain	Res	Type
5	Yx	559	GLU
5	Yx	567	THR
5	Yx	569	VAL
5	Yx	589	LYS
5	Yx	596	SER
5	Yx	600	PHE
5	Yx	608	VAL
5	Yx	611	ILE
5	Yx	615	THR
5	Yx	625	ASN
5	Yx	628	HIS
5	Yx	635	GLU
5	Yx	637	GLU
5	Yx	645	LEU
5	Yx	646	ARG
5	Yx	648	LEU
5	Yx	649	ILE
5	Yx	658	LEU
5	Yx	669	GLU
5	Yx	675	LEU
5	Yx	686	LEU
5	Yx	696	ARG
5	Yx	704	LEU
5	Yx	714	TYR
5	Yx	715	LEU
5	Yx	719	LYS
5	Yx	721	ASP
5	Yx	725	ARG
5	Yx	728	GLU
5	Yx	737	THR
5	Yx	745	LYS
5	Yx	752	TYR
5	Yx	755	GLU
5	Yx	775	ASP
5	Yx	778	THR
5	Yx	785	THR
5	Yx	786	ILE
5	Yx	808	GLN
5	Yx	810	THR
5	Yx	816	LEU
5	Yx	817	LEU
5	Yx	826	VAL

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Mol	Chain	Res	Type
5	Yx	835	GLU
5	Yx	837	GLU
5	Yx	838	ILE
5	Yx	842	VAL
5	Yx	848	LEU
5	Yx	853	ASP
5	Yx	856	ASN
5	Yx	883	VAL
5	Yx	890	PHE
5	Yx	894	THR
5	Yx	900	ILE
5	Yx	904	LEU
5	Yx	907	LYS
5	Yx	909	THR
5	Yx	911	THR
5	Yx	912	ILE
5	Yx	917	LYS
5	Yx	925	LEU
5	Yx	927	THR
5	Yx	937	THR
5	Yx	944	HIS
5	Yx	947	VAL
5	Yx	952	ILE
5	Yx	974	ASN
5	Yx	977	ILE
5	Yx	978	PHE
5	Yx	982	LEU
5	Yx	1000	THR
5	Yx	1003	GLN
5	Yx	1012	LEU
5	Yx	1016	ILE
5	Yx	1018	ASN
5	Yx	1026	THR
5	Yy	9	THR
5	Yy	12	ARG
5	Yy	21	VAL
5	Yy	22	GLN
5	Yy	38	ILE
5	Yy	44	ASN
5	Yy	47	GLU
5	Yy	52	ASN
5	Yy	80	ILE

Continued on next page...

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Mol	Chain	Res	Type
5	Yy	103	PHE
5	Yy	123	ILE
5	Yy	135	VAL
5	Yy	137	PHE
5	Yy	146	LEU
5	Yy	168	ILE
5	Yy	173	TYR
5	Yy	174	HIS
5	Yy	176	ILE
5	Yy	180	ILE
5	Yy	188	ASN
5	Yy	199	LEU
5	Yy	212	SER
5	Yy	214	ASP
5	Yy	235	LYS
5	Yy	236	THR
5	Yy	237	VAL
5	Yy	244	THR
5	Yy	247	VAL
5	Yy	248	LEU
5	Yy	255	TYR
5	Yy	258	LYS
5	Yy	293	ILE
5	Yy	296	THR
5	Yy	311	ILE
5	Yy	312	THR
5	Yy	321	VAL
5	Yy	326	VAL
5	Yy	330	LYS
5	Yy	335	LEU
5	Yy	336	ILE
5	Yy	339	ASP
5	Yy	341	LEU
5	Yy	347	GLU
5	Yy	348	ARG
5	Yy	349	LEU
5	Yy	350	PHE
5	Yy	354	THR
5	Yy	355	MET
5	Yy	375	VAL
5	Yy	395	ILE
5	Yy	403	ILE

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Mol	Chain	Res	Type
5	Yy	406	LEU
5	Yy	414	LYS
5	Yy	415	ARG
5	Yy	440	LEU
5	Yy	461	THR
5	Yy	502	THR
5	Yy	533	VAL
5	Yy	534	VAL
5	Yy	535	VAL
5	Yy	538	ASP
5	Yy	545	ILE
5	Yy	546	GLU
5	Yy	548	ILE
5	Yy	551	THR
5	Yy	552	SER
5	Yy	556	LEU
5	Yy	559	GLU
5	Yy	563	ASP
5	Yy	566	CYS
5	Yy	567	THR
5	Yy	569	VAL
5	Yy	586	LEU
5	Yy	600	PHE
5	Yy	601	ASN
5	Yy	608	VAL
5	Yy	611	ILE
5	Yy	625	ASN
5	Yy	627	GLU
5	Yy	628	HIS
5	Yy	629	GLU
5	Yy	645	LEU
5	Yy	646	ARG
5	Yy	653	MET
5	Yy	655	ASP
5	Yy	665	GLU
5	Yy	704	LEU
5	Yy	713	ILE
5	Yy	714	TYR
5	Yy	715	LEU
5	Yy	719	LYS
5	Yy	721	ASP
5	Yy	723	VAL

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Mol	Chain	Res	Type
5	Yy	733	ASP
5	Yy	745	LYS
5	Yy	752	TYR
5	Yy	755	GLU
5	Yy	758	ILE
5	Yy	769	ASP
5	Yy	785	THR
5	Yy	796	THR
5	Yy	807	LEU
5	Yy	808	GLN
5	Yy	810	THR
5	Yy	816	LEU
5	Yy	817	LEU
5	Yy	826	VAL
5	Yy	827	LYS
5	Yy	846	ASP
5	Yy	848	LEU
5	Yy	851	ASN
5	Yy	852	ILE
5	Yy	866	ILE
5	Yy	896	LEU
5	Yy	900	ILE
5	Yy	907	LYS
5	Yy	908	HIS
5	Yy	909	THR
5	Yy	912	ILE
5	Yy	913	ILE
5	Yy	917	LYS
5	Yy	925	LEU
5	Yy	929	TYR
5	Yy	936	LEU
5	Yy	937	THR
5	Yy	947	VAL
5	Yy	950	GLU
5	Yy	952	ILE
5	Yy	974	ASN
5	Yy	977	ILE
5	Yy	986	ARG
5	Yy	989	LEU
5	Yy	990	MET
5	Yy	1003	GLN
5	Yy	1012	LEU

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Mol	Chain	Res	Type
5	Yy	1016	ILE
5	Yy	1026	THR
6	ZD	51	GLU
6	ZD	54	VAL
6	ZD	65	VAL
6	ZD	69	THR
6	ZD	113	VAL
6	ZD	122	THR
6	ZD	147	LEU
6	ZD	168	THR
6	ZD	205	ASN
6	ZD	247	ILE
6	ZD	295	ASP
6	ZD	298	ASP
6	ZE	7	ILE
6	ZE	12	VAL
6	ZE	13	THR
6	ZE	34	LYS
6	ZE	141	MET
6	ZE	201	ASN
6	ZE	231	TRP
6	ZE	263	LEU
6	ZE	287	ASP
6	ZE	327	GLU
6	ZZ	40	THR
6	ZZ	51	GLU
6	ZZ	66	LEU
6	ZZ	69	THR
6	ZZ	81	VAL
6	ZZ	86	LEU
6	ZZ	138	ASP
6	ZZ	144	ILE
6	ZZ	147	LEU
6	ZZ	199	SER
6	ZZ	286	ASN
6	Za	12	VAL
6	Za	51	GLU
6	Za	54	VAL
6	Za	62	THR
6	Za	66	LEU
6	Za	69	THR
6	Za	138	ASP

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Mol	Chain	Res	Type
6	Za	147	LEU
6	Za	150	LYS
6	Za	168	THR
6	Za	205	ASN
6	Za	235	ASP
6	Za	247	ILE
6	Za	295	ASP
6	Zb	7	ILE
6	Zb	13	THR
6	Zb	33	ASP
6	Zb	34	LYS
6	Zb	54	VAL
6	Zb	141	MET
6	Zb	229	LEU
6	Zb	231	TRP
6	Zb	247	ILE
6	Zb	263	LEU
6	Zb	298	ASP
6	Zb	308	GLU
6	Zb	322	MET
6	Zb	325	THR
6	Zc	12	VAL
6	Zc	13	THR
6	Zc	34	LYS
6	Zc	86	LEU
6	Zc	141	MET
6	Zc	202	ARG
6	Zc	231	TRP
6	Zc	263	LEU
6	Zc	272	ILE
6	Zc	308	GLU
6	Zc	313	GLU
6	Zc	327	GLU
6	aD	39	ILE
6	aD	51	GLU
6	aD	54	VAL
6	aD	66	LEU
6	aD	69	THR
6	aD	81	VAL
6	aD	86	LEU
6	aD	138	ASP
6	aD	144	ILE

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Mol	Chain	Res	Type
6	aD	147	LEU
6	aD	245	ASN
6	aE	7	ILE
6	aE	33	ASP
6	aE	34	LYS
6	aE	90	ILE
6	aE	141	MET
6	aE	202	ARG
6	aE	229	LEU
6	aE	263	LEU
6	aE	298	ASP
6	aE	322	MET
6	aE	325	THR
6	aZ	27	SER
6	aZ	39	ILE
6	aZ	51	GLU
6	aZ	54	VAL
6	aZ	65	VAL
6	aZ	66	LEU
6	aZ	81	VAL
6	aZ	86	LEU
6	aZ	147	LEU
6	aa	21	MET
6	aa	51	GLU
6	aa	54	VAL
6	aa	62	THR
6	aa	66	LEU
6	aa	69	THR
6	aa	86	LEU
6	aa	122	THR
6	aa	147	LEU
6	aa	168	THR
6	aa	199	SER
6	aa	205	ASN
6	aa	245	ASN
6	aa	247	ILE
6	aa	286	ASN
6	aa	295	ASP
6	aa	298	ASP
6	ab	7	ILE
6	ab	13	THR
6	ab	33	ASP

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Mol	Chain	Res	Type
6	ab	34	LYS
6	ab	53	GLU
6	ab	90	ILE
6	ab	141	MET
6	ab	175	ASP
6	ab	226	GLU
6	ab	229	LEU
6	ab	263	LEU
6	ab	308	GLU
6	ab	325	THR
6	ab	333	THR
6	ac	12	VAL
6	ac	13	THR
6	ac	17	ARG
6	ac	34	LYS
6	ac	76	MET
6	ac	141	MET
6	ac	231	TRP
6	ac	263	LEU
6	ac	287	ASP
6	ac	308	GLU
6	ac	313	GLU
6	ac	327	GLU
7	b0	32	LYS
7	b0	47	GLU
7	b0	53	THR
7	b0	66	MET
7	b0	72	LEU
7	b0	76	ASN
7	b0	84	VAL
7	b0	88	THR
7	b0	91	ASN
7	b0	112	VAL
7	b0	130	LYS
7	b0	137	ASP
7	b0	139	LYS
7	b0	149	LYS
7	b0	166	ASN
7	b0	178	LEU
7	b0	182	ILE
7	b0	186	LYS
7	b0	195	LEU

Continued on next page...

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Mol	Chain	Res	Type
7	b0	202	GLU
7	b0	219	ILE
7	b0	229	GLU
7	b0	239	VAL
7	b0	271	TYR
7	b0	290	VAL
7	b0	298	LYS
7	b0	299	ARG
7	b0	303	ASP
7	b0	304	ILE
7	b0	321	GLU
7	b0	344	LEU
7	b0	383	LEU
7	b0	385	THR
7	b0	398	ASP
7	b0	404	LEU
7	b0	413	THR
7	b0	417	ILE
7	b0	421	ARG
7	b0	430	ARG
7	b0	450	ILE
7	b0	456	TYR
7	b0	467	TRP
7	b0	484	VAL
7	b0	495	ASN
7	b0	503	ILE
7	b0	505	LEU
7	b0	517	LEU
7	b0	523	ASN
7	b0	535	LEU
7	b0	536	TYR
7	b0	542	THR
7	b0	550	ARG
7	b0	551	ILE
7	b0	556	LEU
7	b0	571	ARG
7	b0	590	GLN
7	b0	592	LEU
7	b0	606	VAL
7	b0	617	VAL
7	b0	620	ARG
7	b0	629	ILE

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Mol	Chain	Res	Type
7	b0	650	ASP
7	b0	651	PHE
7	b0	653	GLU
7	b0	655	THR
7	b3	14	THR
7	b3	32	LYS
7	b3	42	LYS
7	b3	47	GLU
7	b3	66	MET
7	b3	72	LEU
7	b3	76	ASN
7	b3	84	VAL
7	b3	88	THR
7	b3	91	ASN
7	b3	112	VAL
7	b3	116	ILE
7	b3	121	VAL
7	b3	130	LYS
7	b3	139	LYS
7	b3	149	LYS
7	b3	166	ASN
7	b3	171	ILE
7	b3	186	LYS
7	b3	194	LEU
7	b3	195	LEU
7	b3	199	GLU
7	b3	202	GLU
7	b3	219	ILE
7	b3	229	GLU
7	b3	255	TYR
7	b3	287	ASP
7	b3	290	VAL
7	b3	297	THR
7	b3	298	LYS
7	b3	303	ASP
7	b3	304	ILE
7	b3	317	LYS
7	b3	344	LEU
7	b3	351	THR
7	b3	366	GLU
7	b3	372	LEU
7	b3	383	LEU

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Mol	Chain	Res	Type
7	b3	398	ASP
7	b3	404	LEU
7	b3	411	ARG
7	b3	413	THR
7	b3	415	VAL
7	b3	417	ILE
7	b3	430	ARG
7	b3	437	THR
7	b3	438	ASP
7	b3	450	ILE
7	b3	455	LYS
7	b3	456	TYR
7	b3	467	TRP
7	b3	484	VAL
7	b3	495	ASN
7	b3	503	ILE
7	b3	505	LEU
7	b3	517	LEU
7	b3	535	LEU
7	b3	536	TYR
7	b3	542	THR
7	b3	550	ARG
7	b3	590	GLN
7	b3	592	LEU
7	b3	606	VAL
7	b3	617	VAL
7	b3	629	ILE
7	b3	650	ASP
7	b3	655	THR
7	b4	14	THR
7	b4	32	LYS
7	b4	42	LYS
7	b4	66	MET
7	b4	72	LEU
7	b4	81	VAL
7	b4	88	THR
7	b4	112	VAL
7	b4	121	VAL
7	b4	130	LYS
7	b4	139	LYS
7	b4	141	LYS
7	b4	149	LYS

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Mol	Chain	Res	Type
7	b4	166	ASN
7	b4	171	ILE
7	b4	194	LEU
7	b4	199	GLU
7	b4	202	GLU
7	b4	205	MET
7	b4	209	ASP
7	b4	215	LYS
7	b4	219	ILE
7	b4	232	ASP
7	b4	252	LEU
7	b4	290	VAL
7	b4	298	LYS
7	b4	302	LYS
7	b4	303	ASP
7	b4	344	LEU
7	b4	366	GLU
7	b4	383	LEU
7	b4	385	THR
7	b4	398	ASP
7	b4	404	LEU
7	b4	417	ILE
7	b4	450	ILE
7	b4	455	LYS
7	b4	459	ASP
7	b4	467	TRP
7	b4	484	VAL
7	b4	495	ASN
7	b4	503	ILE
7	b4	523	ASN
7	b4	536	TYR
7	b4	542	THR
7	b4	550	ARG
7	b4	572	LEU
7	b4	574	GLU
7	b4	592	LEU
7	b4	606	VAL
7	b4	629	ILE
7	b4	650	ASP
7	b4	655	THR
7	b5	14	THR
7	b5	32	LYS

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Mol	Chain	Res	Type
7	b5	34	GLN
7	b5	47	GLU
7	b5	58	THR
7	b5	66	MET
7	b5	72	LEU
7	b5	84	VAL
7	b5	88	THR
7	b5	112	VAL
7	b5	121	VAL
7	b5	130	LYS
7	b5	139	LYS
7	b5	142	LYS
7	b5	149	LYS
7	b5	186	LYS
7	b5	194	LEU
7	b5	202	GLU
7	b5	219	ILE
7	b5	255	TYR
7	b5	287	ASP
7	b5	290	VAL
7	b5	298	LYS
7	b5	303	ASP
7	b5	304	ILE
7	b5	344	LEU
7	b5	351	THR
7	b5	366	GLU
7	b5	372	LEU
7	b5	383	LEU
7	b5	398	ASP
7	b5	404	LEU
7	b5	411	ARG
7	b5	413	THR
7	b5	415	VAL
7	b5	417	ILE
7	b5	430	ARG
7	b5	438	ASP
7	b5	450	ILE
7	b5	456	TYR
7	b5	467	TRP
7	b5	484	VAL
7	b5	495	ASN
7	b5	503	ILE

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Mol	Chain	Res	Type
7	b5	517	LEU
7	b5	523	ASN
7	b5	535	LEU
7	b5	536	TYR
7	b5	542	THR
7	b5	550	ARG
7	b5	571	ARG
7	b5	572	LEU
7	b5	592	LEU
7	b5	596	LYS
7	b5	606	VAL
7	b5	629	ILE
7	b5	650	ASP
7	b5	655	THR
7	b6	14	THR
7	b6	32	LYS
7	b6	42	LYS
7	b6	47	GLU
7	b6	66	MET
7	b6	72	LEU
7	b6	88	THR
7	b6	112	VAL
7	b6	117	THR
7	b6	121	VAL
7	b6	130	LYS
7	b6	141	LYS
7	b6	171	ILE
7	b6	182	ILE
7	b6	190	ASP
7	b6	194	LEU
7	b6	199	GLU
7	b6	202	GLU
7	b6	205	MET
7	b6	209	ASP
7	b6	215	LYS
7	b6	219	ILE
7	b6	252	LEU
7	b6	290	VAL
7	b6	298	LYS
7	b6	302	LYS
7	b6	303	ASP
7	b6	344	LEU

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Mol	Chain	Res	Type
7	b6	366	GLU
7	b6	383	LEU
7	b6	385	THR
7	b6	398	ASP
7	b6	404	LEU
7	b6	417	ILE
7	b6	450	ILE
7	b6	451	ASP
7	b6	455	LYS
7	b6	467	TRP
7	b6	482	ASP
7	b6	484	VAL
7	b6	495	ASN
7	b6	503	ILE
7	b6	523	ASN
7	b6	535	LEU
7	b6	536	TYR
7	b6	539	LYS
7	b6	542	THR
7	b6	550	ARG
7	b6	572	LEU
7	b6	574	GLU
7	b6	592	LEU
7	b6	601	ILE
7	b6	606	VAL
7	b6	629	ILE
7	b6	650	ASP
7	b6	655	THR
7	b7	14	THR
7	b7	32	LYS
7	b7	47	GLU
7	b7	66	MET
7	b7	76	ASN
7	b7	84	VAL
7	b7	88	THR
7	b7	91	ASN
7	b7	112	VAL
7	b7	121	VAL
7	b7	130	LYS
7	b7	139	LYS
7	b7	144	ASN
7	b7	149	LYS

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Mol	Chain	Res	Type
7	b7	166	ASN
7	b7	186	LYS
7	b7	194	LEU
7	b7	195	LEU
7	b7	199	GLU
7	b7	202	GLU
7	b7	219	ILE
7	b7	229	GLU
7	b7	271	TYR
7	b7	287	ASP
7	b7	290	VAL
7	b7	297	THR
7	b7	298	LYS
7	b7	303	ASP
7	b7	344	LEU
7	b7	366	GLU
7	b7	372	LEU
7	b7	383	LEU
7	b7	385	THR
7	b7	398	ASP
7	b7	399	VAL
7	b7	404	LEU
7	b7	413	THR
7	b7	415	VAL
7	b7	417	ILE
7	b7	437	THR
7	b7	450	ILE
7	b7	451	ASP
7	b7	467	TRP
7	b7	484	VAL
7	b7	495	ASN
7	b7	503	ILE
7	b7	505	LEU
7	b7	523	ASN
7	b7	535	LEU
7	b7	536	TYR
7	b7	542	THR
7	b7	550	ARG
7	b7	572	LEU
7	b7	590	GLN
7	b7	592	LEU
7	b7	606	VAL

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Mol	Chain	Res	Type
7	b7	629	ILE
7	b7	650	ASP
7	b7	655	THR
7	b8	14	THR
7	b8	32	LYS
7	b8	47	GLU
7	b8	66	MET
7	b8	72	LEU
7	b8	76	ASN
7	b8	88	THR
7	b8	112	VAL
7	b8	130	LYS
7	b8	133	GLU
7	b8	139	LYS
7	b8	149	LYS
7	b8	166	ASN
7	b8	182	ILE
7	b8	186	LYS
7	b8	202	GLU
7	b8	209	ASP
7	b8	219	ILE
7	b8	230	LEU
7	b8	239	VAL
7	b8	271	TYR
7	b8	290	VAL
7	b8	298	LYS
7	b8	303	ASP
7	b8	304	ILE
7	b8	344	LEU
7	b8	366	GLU
7	b8	372	LEU
7	b8	383	LEU
7	b8	385	THR
7	b8	398	ASP
7	b8	404	LEU
7	b8	413	THR
7	b8	415	VAL
7	b8	417	ILE
7	b8	450	ILE
7	b8	455	LYS
7	b8	467	TRP
7	b8	468	VAL

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Mol	Chain	Res	Type
7	b8	484	VAL
7	b8	495	ASN
7	b8	505	LEU
7	b8	517	LEU
7	b8	523	ASN
7	b8	535	LEU
7	b8	536	TYR
7	b8	542	THR
7	b8	550	ARG
7	b8	551	ILE
7	b8	553	VAL
7	b8	569	LYS
7	b8	572	LEU
7	b8	574	GLU
7	b8	590	GLN
7	b8	592	LEU
7	b8	606	VAL
7	b8	617	VAL
7	b8	620	ARG
7	b8	629	ILE
7	b8	650	ASP
7	b8	651	PHE
7	b8	655	THR
7	b9	14	THR
7	b9	16	GLN
7	b9	32	LYS
7	b9	47	GLU
7	b9	66	MET
7	b9	72	LEU
7	b9	80	VAL
7	b9	84	VAL
7	b9	88	THR
7	b9	112	VAL
7	b9	121	VAL
7	b9	130	LYS
7	b9	139	LYS
7	b9	141	LYS
7	b9	144	ASN
7	b9	149	LYS
7	b9	166	ASN
7	b9	171	ILE
7	b9	182	ILE

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Mol	Chain	Res	Type
7	b9	195	LEU
7	b9	202	GLU
7	b9	208	VAL
7	b9	209	ASP
7	b9	215	LYS
7	b9	219	ILE
7	b9	229	GLU
7	b9	230	LEU
7	b9	239	VAL
7	b9	260	THR
7	b9	271	TYR
7	b9	289	ILE
7	b9	290	VAL
7	b9	298	LYS
7	b9	303	ASP
7	b9	344	LEU
7	b9	351	THR
7	b9	383	LEU
7	b9	385	THR
7	b9	404	LEU
7	b9	407	CYS
7	b9	417	ILE
7	b9	430	ARG
7	b9	446	THR
7	b9	450	ILE
7	b9	451	ASP
7	b9	467	TRP
7	b9	468	VAL
7	b9	484	VAL
7	b9	502	VAL
7	b9	503	ILE
7	b9	517	LEU
7	b9	535	LEU
7	b9	536	TYR
7	b9	550	ARG
7	b9	552	ASN
7	b9	569	LYS
7	b9	572	LEU
7	b9	573	PHE
7	b9	574	GLU
7	b9	590	GLN
7	b9	601	ILE

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Mol	Chain	Res	Type
7	b9	606	VAL
7	b9	617	VAL
7	b9	629	ILE
7	b9	650	ASP
7	b9	655	THR
7	bN	19	VAL
7	bN	24	THR
7	bN	32	LYS
7	bN	47	GLU
7	bN	58	THR
7	bN	60	GLU
7	bN	66	MET
7	bN	72	LEU
7	bN	81	VAL
7	bN	88	THR
7	bN	115	LYS
7	bN	116	ILE
7	bN	132	THR
7	bN	133	GLU
7	bN	134	VAL
7	bN	147	THR
7	bN	153	LYS
7	bN	168	THR
7	bN	178	LEU
7	bN	186	LYS
7	bN	190	ASP
7	bN	194	LEU
7	bN	197	GLU
7	bN	202	GLU
7	bN	205	MET
7	bN	209	ASP
7	bN	219	ILE
7	bN	229	GLU
7	bN	230	LEU
7	bN	252	LEU
7	bN	282	ILE
7	bN	296	SER
7	bN	299	ARG
7	bN	303	ASP
7	bN	321	GLU
7	bN	344	LEU
7	bN	372	LEU

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Mol	Chain	Res	Type
7	bN	383	LEU
7	bN	384	GLU
7	bN	385	THR
7	bN	398	ASP
7	bN	406	LEU
7	bN	417	ILE
7	bN	450	ILE
7	bN	453	ASN
7	bN	460	LYS
7	bN	466	ARG
7	bN	467	TRP
7	bN	503	ILE
7	bN	505	LEU
7	bN	535	LEU
7	bN	536	TYR
7	bN	540	THR
7	bN	553	VAL
7	bN	592	LEU
7	bN	606	VAL
7	bN	645	THR
7	bN	655	THR
7	bO	16	GLN
7	bO	24	THR
7	bO	32	LYS
7	bO	46	ASN
7	bO	47	GLU
7	bO	58	THR
7	bO	60	GLU
7	bO	66	MET
7	bO	72	LEU
7	bO	80	VAL
7	bO	116	ILE
7	bO	119	LYS
7	bO	132	THR
7	bO	147	THR
7	bO	153	LYS
7	bO	162	THR
7	bO	170	GLU
7	bO	178	LEU
7	bO	188	ILE
7	bO	199	GLU
7	bO	202	GLU

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Mol	Chain	Res	Type
7	bO	219	ILE
7	bO	229	GLU
7	bO	230	LEU
7	bO	275	THR
7	bO	290	VAL
7	bO	303	ASP
7	bO	321	GLU
7	bO	338	LEU
7	bO	344	LEU
7	bO	383	LEU
7	bO	385	THR
7	bO	398	ASP
7	bO	404	LEU
7	bO	413	THR
7	bO	417	ILE
7	bO	438	ASP
7	bO	450	ILE
7	bO	454	TYR
7	bO	455	LYS
7	bO	460	LYS
7	bO	467	TRP
7	bO	487	THR
7	bO	503	ILE
7	bO	523	ASN
7	bO	526	THR
7	bO	531	ASP
7	bO	535	LEU
7	bO	536	TYR
7	bO	540	THR
7	bO	572	LEU
7	bO	590	GLN
7	bO	592	LEU
7	bO	606	VAL
7	bO	629	ILE
7	bO	637	TYR
7	bO	645	THR
7	bP	32	LYS
7	bP	42	LYS
7	bP	47	GLU
7	bP	58	THR
7	bP	60	GLU
7	bP	66	MET

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Mol	Chain	Res	Type
7	bP	81	VAL
7	bP	88	THR
7	bP	116	ILE
7	bP	119	LYS
7	bP	133	GLU
7	bP	147	THR
7	bP	153	LYS
7	bP	168	THR
7	bP	178	LEU
7	bP	186	LYS
7	bP	190	ASP
7	bP	194	LEU
7	bP	197	GLU
7	bP	202	GLU
7	bP	205	MET
7	bP	208	VAL
7	bP	209	ASP
7	bP	215	LYS
7	bP	219	ILE
7	bP	229	GLU
7	bP	230	LEU
7	bP	252	LEU
7	bP	282	ILE
7	bP	299	ARG
7	bP	303	ASP
7	bP	321	GLU
7	bP	344	LEU
7	bP	351	THR
7	bP	383	LEU
7	bP	384	GLU
7	bP	385	THR
7	bP	398	ASP
7	bP	406	LEU
7	bP	411	ARG
7	bP	413	THR
7	bP	414	VAL
7	bP	417	ILE
7	bP	450	ILE
7	bP	451	ASP
7	bP	460	LYS
7	bP	467	TRP
7	bP	487	THR

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Mol	Chain	Res	Type
7	bP	503	ILE
7	bP	505	LEU
7	bP	523	ASN
7	bP	535	LEU
7	bP	539	LYS
7	bP	544	VAL
7	bP	556	LEU
7	bP	572	LEU
7	bP	592	LEU
7	bP	595	ILE
7	bP	606	VAL
7	bP	624	VAL
7	bP	629	ILE
7	bP	652	ASP
7	bP	655	THR
7	bQ	24	THR
7	bQ	32	LYS
7	bQ	46	ASN
7	bQ	47	GLU
7	bQ	58	THR
7	bQ	66	MET
7	bQ	72	LEU
7	bQ	115	LYS
7	bQ	116	ILE
7	bQ	119	LYS
7	bQ	132	THR
7	bQ	147	THR
7	bQ	153	LYS
7	bQ	170	GLU
7	bQ	178	LEU
7	bQ	199	GLU
7	bQ	202	GLU
7	bQ	219	ILE
7	bQ	230	LEU
7	bQ	235	GLU
7	bQ	275	THR
7	bQ	290	VAL
7	bQ	303	ASP
7	bQ	344	LEU
7	bQ	383	LEU
7	bQ	385	THR
7	bQ	398	ASP

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Mol	Chain	Res	Type
7	bQ	404	LEU
7	bQ	413	THR
7	bQ	417	ILE
7	bQ	438	ASP
7	bQ	439	ASN
7	bQ	450	ILE
7	bQ	451	ASP
7	bQ	455	LYS
7	bQ	466	ARG
7	bQ	467	TRP
7	bQ	503	ILE
7	bQ	505	LEU
7	bQ	523	ASN
7	bQ	531	ASP
7	bQ	535	LEU
7	bQ	536	TYR
7	bQ	540	THR
7	bQ	550	ARG
7	bQ	559	MET
7	bQ	580	THR
7	bQ	592	LEU
7	bQ	606	VAL
7	bQ	645	THR
7	bQ	652	ASP
7	bR	22	ASN
7	bR	24	THR
7	bR	32	LYS
7	bR	46	ASN
7	bR	47	GLU
7	bR	58	THR
7	bR	66	MET
7	bR	72	LEU
7	bR	80	VAL
7	bR	88	THR
7	bR	100	GLU
7	bR	116	ILE
7	bR	119	LYS
7	bR	133	GLU
7	bR	147	THR
7	bR	153	LYS
7	bR	178	LEU
7	bR	186	LYS

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Mol	Chain	Res	Type
7	bR	190	ASP
7	bR	194	LEU
7	bR	195	LEU
7	bR	202	GLU
7	bR	205	MET
7	bR	209	ASP
7	bR	219	ILE
7	bR	229	GLU
7	bR	230	LEU
7	bR	235	GLU
7	bR	282	ILE
7	bR	290	VAL
7	bR	299	ARG
7	bR	303	ASP
7	bR	344	LEU
7	bR	372	LEU
7	bR	383	LEU
7	bR	384	GLU
7	bR	385	THR
7	bR	398	ASP
7	bR	404	LEU
7	bR	406	LEU
7	bR	413	THR
7	bR	414	VAL
7	bR	417	ILE
7	bR	431	THR
7	bR	450	ILE
7	bR	455	LYS
7	bR	456	TYR
7	bR	460	LYS
7	bR	467	TRP
7	bR	503	ILE
7	bR	523	ASN
7	bR	535	LEU
7	bR	540	THR
7	bR	572	LEU
7	bR	590	GLN
7	bR	606	VAL
7	bR	621	ASN
7	bR	624	VAL
7	bR	645	THR
7	bR	655	THR

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Mol	Chain	Res	Type
7	bY	21	ASN
7	bY	24	THR
7	bY	32	LYS
7	bY	42	LYS
7	bY	47	GLU
7	bY	58	THR
7	bY	66	MET
7	bY	72	LEU
7	bY	80	VAL
7	bY	88	THR
7	bY	99	ILE
7	bY	116	ILE
7	bY	119	LYS
7	bY	132	THR
7	bY	147	THR
7	bY	153	LYS
7	bY	162	THR
7	bY	170	GLU
7	bY	178	LEU
7	bY	188	ILE
7	bY	197	GLU
7	bY	199	GLU
7	bY	202	GLU
7	bY	219	ILE
7	bY	229	GLU
7	bY	230	LEU
7	bY	239	VAL
7	bY	275	THR
7	bY	290	VAL
7	bY	303	ASP
7	bY	344	LEU
7	bY	383	LEU
7	bY	385	THR
7	bY	398	ASP
7	bY	404	LEU
7	bY	413	THR
7	bY	417	ILE
7	bY	430	ARG
7	bY	450	ILE
7	bY	454	TYR
7	bY	466	ARG
7	bY	467	TRP

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Mol	Chain	Res	Type
7	bY	487	THR
7	bY	503	ILE
7	bY	518	TYR
7	bY	523	ASN
7	bY	531	ASP
7	bY	535	LEU
7	bY	536	TYR
7	bY	540	THR
7	bY	551	ILE
7	bY	556	LEU
7	bY	559	MET
7	bY	572	LEU
7	bY	595	ILE
7	bY	606	VAL
7	bY	629	ILE
7	bY	637	TYR
7	bY	645	THR
7	cA	14	THR
7	cA	32	LYS
7	cA	42	LYS
7	cA	47	GLU
7	cA	66	MET
7	cA	72	LEU
7	cA	88	THR
7	cA	112	VAL
7	cA	121	VAL
7	cA	130	LYS
7	cA	139	LYS
7	cA	141	LYS
7	cA	149	LYS
7	cA	166	ASN
7	cA	171	ILE
7	cA	182	ILE
7	cA	186	LYS
7	cA	195	LEU
7	cA	202	GLU
7	cA	205	MET
7	cA	209	ASP
7	cA	211	GLN
7	cA	219	ILE
7	cA	229	GLU
7	cA	230	LEU

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Mol	Chain	Res	Type
7	cA	271	TYR
7	cA	290	VAL
7	cA	291	GLN
7	cA	298	LYS
7	cA	303	ASP
7	cA	312	ASP
7	cA	344	LEU
7	cA	351	THR
7	cA	366	GLU
7	cA	383	LEU
7	cA	385	THR
7	cA	404	LEU
7	cA	407	CYS
7	cA	415	VAL
7	cA	417	ILE
7	cA	430	ARG
7	cA	443	ILE
7	cA	446	THR
7	cA	450	ILE
7	cA	451	ASP
7	cA	467	TRP
7	cA	468	VAL
7	cA	477	LEU
7	cA	484	VAL
7	cA	495	ASN
7	cA	503	ILE
7	cA	517	LEU
7	cA	523	ASN
7	cA	535	LEU
7	cA	536	TYR
7	cA	542	THR
7	cA	550	ARG
7	cA	556	LEU
7	cA	569	LYS
7	cA	572	LEU
7	cA	590	GLN
7	cA	592	LEU
7	cA	606	VAL
7	cA	617	VAL
7	cA	624	VAL
7	cA	629	ILE
7	cA	637	TYR

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Mol	Chain	Res	Type
7	cA	650	ASP
7	cA	655	THR
7	cB	14	THR
7	cB	16	GLN
7	cB	32	LYS
7	cB	42	LYS
7	cB	47	GLU
7	cB	66	MET
7	cB	72	LEU
7	cB	84	VAL
7	cB	88	THR
7	cB	112	VAL
7	cB	130	LYS
7	cB	133	GLU
7	cB	139	LYS
7	cB	149	LYS
7	cB	166	ASN
7	cB	178	LEU
7	cB	182	ILE
7	cB	186	LYS
7	cB	188	ILE
7	cB	195	LEU
7	cB	202	GLU
7	cB	209	ASP
7	cB	219	ILE
7	cB	229	GLU
7	cB	271	TYR
7	cB	281	ILE
7	cB	290	VAL
7	cB	298	LYS
7	cB	303	ASP
7	cB	304	ILE
7	cB	321	GLU
7	cB	344	LEU
7	cB	383	LEU
7	cB	385	THR
7	cB	404	LEU
7	cB	417	ILE
7	cB	430	ARG
7	cB	450	ILE
7	cB	456	TYR
7	cB	467	TRP

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Mol	Chain	Res	Type
7	cB	468	VAL
7	cB	505	LEU
7	cB	517	LEU
7	cB	523	ASN
7	cB	535	LEU
7	cB	536	TYR
7	cB	540	THR
7	cB	542	THR
7	cB	550	ARG
7	cB	551	ILE
7	cB	572	LEU
7	cB	573	PHE
7	cB	574	GLU
7	cB	590	GLN
7	cB	596	LYS
7	cB	601	ILE
7	cB	606	VAL
7	cB	617	VAL
7	cB	621	ASN
7	cB	629	ILE
7	cB	650	ASP
7	cB	651	PHE
7	cC	32	LYS
7	cC	42	LYS
7	cC	47	GLU
7	cC	49	ASP
7	cC	66	MET
7	cC	76	ASN
7	cC	84	VAL
7	cC	88	THR
7	cC	102	THR
7	cC	112	VAL
7	cC	121	VAL
7	cC	130	LYS
7	cC	137	ASP
7	cC	139	LYS
7	cC	141	LYS
7	cC	149	LYS
7	cC	166	ASN
7	cC	178	LEU
7	cC	186	LYS
7	cC	194	LEU

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Mol	Chain	Res	Type
7	cC	195	LEU
7	cC	199	GLU
7	cC	202	GLU
7	cC	209	ASP
7	cC	219	ILE
7	cC	236	ILE
7	cC	271	TYR
7	cC	287	ASP
7	cC	290	VAL
7	cC	298	LYS
7	cC	299	ARG
7	cC	303	ASP
7	cC	307	SER
7	cC	344	LEU
7	cC	366	GLU
7	cC	368	VAL
7	cC	383	LEU
7	cC	404	LEU
7	cC	408	SER
7	cC	415	VAL
7	cC	417	ILE
7	cC	450	ILE
7	cC	467	TRP
7	cC	484	VAL
7	cC	495	ASN
7	cC	503	ILE
7	cC	505	LEU
7	cC	523	ASN
7	cC	526	THR
7	cC	535	LEU
7	cC	536	TYR
7	cC	540	THR
7	cC	542	THR
7	cC	552	ASN
7	cC	569	LYS
7	cC	572	LEU
7	cC	588	THR
7	cC	590	GLN
7	cC	596	LYS
7	cC	606	VAL
7	cC	621	ASN
7	cC	624	VAL

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Mol	Chain	Res	Type
7	cC	650	ASP
7	cC	651	PHE
7	cD	32	LYS
7	cD	47	GLU
7	cD	58	THR
7	cD	66	MET
7	cD	72	LEU
7	cD	80	VAL
7	cD	88	THR
7	cD	112	VAL
7	cD	125	ILE
7	cD	130	LYS
7	cD	139	LYS
7	cD	149	LYS
7	cD	153	LYS
7	cD	166	ASN
7	cD	171	ILE
7	cD	182	ILE
7	cD	186	LYS
7	cD	194	LEU
7	cD	197	GLU
7	cD	199	GLU
7	cD	202	GLU
7	cD	208	VAL
7	cD	219	ILE
7	cD	230	LEU
7	cD	271	TYR
7	cD	276	ASP
7	cD	290	VAL
7	cD	298	LYS
7	cD	303	ASP
7	cD	304	ILE
7	cD	344	LEU
7	cD	368	VAL
7	cD	383	LEU
7	cD	385	THR
7	cD	398	ASP
7	cD	413	THR
7	cD	417	ILE
7	cD	430	ARG
7	cD	450	ILE
7	cD	460	LYS

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Mol	Chain	Res	Type
7	cD	467	TRP
7	cD	484	VAL
7	cD	503	ILE
7	cD	517	LEU
7	cD	523	ASN
7	cD	534	VAL
7	cD	535	LEU
7	cD	536	TYR
7	cD	540	THR
7	cD	542	THR
7	cD	550	ARG
7	cD	551	ILE
7	cD	564	ILE
7	cD	571	ARG
7	cD	572	LEU
7	cD	601	ILE
7	cD	605	ARG
7	cD	606	VAL
7	cD	617	VAL
7	cD	624	VAL
7	cD	629	ILE
7	cD	650	ASP
7	cD	651	PHE
7	cD	655	THR
7	cE	3	LEU
7	cE	14	THR
7	cE	16	GLN
7	cE	32	LYS
7	cE	42	LYS
7	cE	66	MET
7	cE	72	LEU
7	cE	80	VAL
7	cE	88	THR
7	cE	92	SER
7	cE	112	VAL
7	cE	117	THR
7	cE	121	VAL
7	cE	130	LYS
7	cE	139	LYS
7	cE	145	ILE
7	cE	149	LYS
7	cE	190	ASP

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Mol	Chain	Res	Type
7	cE	194	LEU
7	cE	199	GLU
7	cE	202	GLU
7	cE	205	MET
7	cE	209	ASP
7	cE	215	LYS
7	cE	219	ILE
7	cE	252	LEU
7	cE	290	VAL
7	cE	298	LYS
7	cE	299	ARG
7	cE	302	LYS
7	cE	303	ASP
7	cE	321	GLU
7	cE	344	LEU
7	cE	366	GLU
7	cE	383	LEU
7	cE	385	THR
7	cE	398	ASP
7	cE	404	LEU
7	cE	417	ILE
7	cE	430	ARG
7	cE	450	ILE
7	cE	459	ASP
7	cE	467	TRP
7	cE	477	LEU
7	cE	484	VAL
7	cE	495	ASN
7	cE	503	ILE
7	cE	523	ASN
7	cE	535	LEU
7	cE	536	TYR
7	cE	539	LYS
7	cE	542	THR
7	cE	550	ARG
7	cE	572	LEU
7	cE	574	GLU
7	cE	592	LEU
7	cE	606	VAL
7	cE	629	ILE
7	cE	650	ASP
7	cE	655	THR

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Mol	Chain	Res	Type
7	cF	14	THR
7	cF	16	GLN
7	cF	32	LYS
7	cF	42	LYS
7	cF	47	GLU
7	cF	66	MET
7	cF	72	LEU
7	cF	76	ASN
7	cF	88	THR
7	cF	112	VAL
7	cF	121	VAL
7	cF	130	LYS
7	cF	139	LYS
7	cF	141	LYS
7	cF	149	LYS
7	cF	166	ASN
7	cF	171	ILE
7	cF	182	ILE
7	cF	193	ILE
7	cF	195	LEU
7	cF	202	GLU
7	cF	205	MET
7	cF	209	ASP
7	cF	219	ILE
7	cF	229	GLU
7	cF	230	LEU
7	cF	260	THR
7	cF	271	TYR
7	cF	290	VAL
7	cF	298	LYS
7	cF	303	ASP
7	cF	344	LEU
7	cF	367	SER
7	cF	383	LEU
7	cF	385	THR
7	cF	404	LEU
7	cF	413	THR
7	cF	417	ILE
7	cF	430	ARG
7	cF	443	ILE
7	cF	451	ASP
7	cF	466	ARG

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Mol	Chain	Res	Type
7	cF	467	TRP
7	cF	484	VAL
7	cF	503	ILE
7	cF	523	ASN
7	cF	535	LEU
7	cF	536	TYR
7	cF	542	THR
7	cF	550	ARG
7	cF	569	LYS
7	cF	572	LEU
7	cF	573	PHE
7	cF	574	GLU
7	cF	580	THR
7	cF	590	GLN
7	cF	592	LEU
7	cF	596	LYS
7	cF	606	VAL
7	cF	610	THR
7	cF	617	VAL
7	cF	620	ARG
7	cF	629	ILE
7	cF	650	ASP
7	cF	653	GLU
7	cF	655	THR
7	cG	32	LYS
7	cG	47	GLU
7	cG	49	ASP
7	cG	58	THR
7	cG	60	GLU
7	cG	66	MET
7	cG	76	ASN
7	cG	80	VAL
7	cG	112	VAL
7	cG	116	ILE
7	cG	121	VAL
7	cG	130	LYS
7	cG	139	LYS
7	cG	149	LYS
7	cG	153	LYS
7	cG	171	ILE
7	cG	182	ILE
7	cG	195	LEU

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Mol	Chain	Res	Type
7	cG	197	GLU
7	cG	199	GLU
7	cG	202	GLU
7	cG	208	VAL
7	cG	215	LYS
7	cG	219	ILE
7	cG	239	VAL
7	cG	287	ASP
7	cG	298	LYS
7	cG	303	ASP
7	cG	304	ILE
7	cG	317	LYS
7	cG	344	LEU
7	cG	368	VAL
7	cG	383	LEU
7	cG	385	THR
7	cG	398	ASP
7	cG	413	THR
7	cG	417	ILE
7	cG	430	ARG
7	cG	446	THR
7	cG	450	ILE
7	cG	460	LYS
7	cG	467	TRP
7	cG	484	VAL
7	cG	487	THR
7	cG	495	ASN
7	cG	503	ILE
7	cG	505	LEU
7	cG	523	ASN
7	cG	535	LEU
7	cG	536	TYR
7	cG	540	THR
7	cG	550	ARG
7	cG	551	ILE
7	cG	553	VAL
7	cG	564	ILE
7	cG	572	LEU
7	cG	585	ARG
7	cG	606	VAL
7	cG	617	VAL
7	cG	629	ILE

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Mol	Chain	Res	Type
7	cG	651	PHE
7	cG	655	THR
7	cH	32	LYS
7	cH	66	MET
7	cH	72	LEU
7	cH	80	VAL
7	cH	88	THR
7	cH	112	VAL
7	cH	130	LYS
7	cH	139	LYS
7	cH	141	LYS
7	cH	149	LYS
7	cH	166	ASN
7	cH	186	LYS
7	cH	195	LEU
7	cH	197	GLU
7	cH	199	GLU
7	cH	202	GLU
7	cH	205	MET
7	cH	219	ILE
7	cH	230	LEU
7	cH	251	LEU
7	cH	271	TYR
7	cH	282	ILE
7	cH	290	VAL
7	cH	298	LYS
7	cH	303	ASP
7	cH	351	THR
7	cH	368	VAL
7	cH	383	LEU
7	cH	385	THR
7	cH	390	GLN
7	cH	398	ASP
7	cH	404	LEU
7	cH	417	ILE
7	cH	430	ARG
7	cH	438	ASP
7	cH	439	ASN
7	cH	450	ILE
7	cH	456	TYR
7	cH	467	TRP
7	cH	477	LEU

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Mol	Chain	Res	Type
7	cH	484	VAL
7	cH	487	THR
7	cH	503	ILE
7	cH	505	LEU
7	cH	517	LEU
7	cH	523	ASN
7	cH	535	LEU
7	cH	536	TYR
7	cH	540	THR
7	cH	542	THR
7	cH	550	ARG
7	cH	552	ASN
7	cH	572	LEU
7	cH	592	LEU
7	cH	596	LYS
7	cH	606	VAL
7	cH	620	ARG
7	cH	629	ILE
7	cH	650	ASP
7	cH	655	THR
7	cI	32	LYS
7	cI	42	LYS
7	cI	58	THR
7	cI	66	MET
7	cI	76	ASN
7	cI	84	VAL
7	cI	112	VAL
7	cI	121	VAL
7	cI	130	LYS
7	cI	139	LYS
7	cI	141	LYS
7	cI	149	LYS
7	cI	166	ASN
7	cI	186	LYS
7	cI	195	LEU
7	cI	199	GLU
7	cI	202	GLU
7	cI	209	ASP
7	cI	219	ILE
7	cI	239	VAL
7	cI	271	TYR
7	cI	287	ASP

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Mol	Chain	Res	Type
7	cI	298	LYS
7	cI	299	ARG
7	cI	303	ASP
7	cI	307	SER
7	cI	312	ASP
7	cI	313	ASP
7	cI	344	LEU
7	cI	366	GLU
7	cI	368	VAL
7	cI	372	LEU
7	cI	383	LEU
7	cI	398	ASP
7	cI	400	ARG
7	cI	408	SER
7	cI	415	VAL
7	cI	417	ILE
7	cI	430	ARG
7	cI	450	ILE
7	cI	455	LYS
7	cI	460	LYS
7	cI	467	TRP
7	cI	484	VAL
7	cI	495	ASN
7	cI	503	ILE
7	cI	505	LEU
7	cI	523	ASN
7	cI	535	LEU
7	cI	536	TYR
7	cI	540	THR
7	cI	542	THR
7	cI	550	ARG
7	cI	569	LYS
7	cI	572	LEU
7	cI	596	LYS
7	cI	606	VAL
7	cI	609	ASP
7	cI	621	ASN
7	cI	650	ASP
7	cI	651	PHE
7	cI	655	THR
7	cJ	32	LYS
7	cJ	47	GLU

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Mol	Chain	Res	Type
7	cJ	58	THR
7	cJ	66	MET
7	cJ	88	THR
7	cJ	112	VAL
7	cJ	121	VAL
7	cJ	125	ILE
7	cJ	130	LYS
7	cJ	139	LYS
7	cJ	149	LYS
7	cJ	194	LEU
7	cJ	199	GLU
7	cJ	202	GLU
7	cJ	208	VAL
7	cJ	219	ILE
7	cJ	230	LEU
7	cJ	235	GLU
7	cJ	239	VAL
7	cJ	290	VAL
7	cJ	298	LYS
7	cJ	303	ASP
7	cJ	304	ILE
7	cJ	344	LEU
7	cJ	368	VAL
7	cJ	383	LEU
7	cJ	385	THR
7	cJ	398	ASP
7	cJ	404	LEU
7	cJ	413	THR
7	cJ	417	ILE
7	cJ	430	ARG
7	cJ	450	ILE
7	cJ	455	LYS
7	cJ	460	LYS
7	cJ	467	TRP
7	cJ	484	VAL
7	cJ	495	ASN
7	cJ	503	ILE
7	cJ	505	LEU
7	cJ	513	GLN
7	cJ	517	LEU
7	cJ	523	ASN
7	cJ	526	THR

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Mol	Chain	Res	Type
7	cJ	535	LEU
7	cJ	536	TYR
7	cJ	551	ILE
7	cJ	553	VAL
7	cJ	564	ILE
7	cJ	572	LEU
7	cJ	606	VAL
7	cJ	624	VAL
7	cJ	650	ASP
7	cJ	651	PHE
7	cJ	655	THR
7	cK	23	SER
7	cK	32	LYS
7	cK	42	LYS
7	cK	49	ASP
7	cK	58	THR
7	cK	66	MET
7	cK	72	LEU
7	cK	76	ASN
7	cK	84	VAL
7	cK	88	THR
7	cK	112	VAL
7	cK	121	VAL
7	cK	130	LYS
7	cK	137	ASP
7	cK	139	LYS
7	cK	141	LYS
7	cK	149	LYS
7	cK	166	ASN
7	cK	183	THR
7	cK	186	LYS
7	cK	194	LEU
7	cK	195	LEU
7	cK	199	GLU
7	cK	202	GLU
7	cK	219	ILE
7	cK	239	VAL
7	cK	271	TYR
7	cK	287	ASP
7	cK	298	LYS
7	cK	299	ARG
7	cK	303	ASP

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Mol	Chain	Res	Type
7	cK	312	ASP
7	cK	313	ASP
7	cK	326	THR
7	cK	344	LEU
7	cK	368	VAL
7	cK	372	LEU
7	cK	398	ASP
7	cK	399	VAL
7	cK	404	LEU
7	cK	408	SER
7	cK	417	ILE
7	cK	437	THR
7	cK	450	ILE
7	cK	460	LYS
7	cK	467	TRP
7	cK	484	VAL
7	cK	503	ILE
7	cK	523	ASN
7	cK	535	LEU
7	cK	536	TYR
7	cK	540	THR
7	cK	542	THR
7	cK	544	VAL
7	cK	550	ARG
7	cK	569	LYS
7	cK	572	LEU
7	cK	590	GLN
7	cK	596	LYS
7	cK	601	ILE
7	cK	606	VAL
7	cK	650	ASP
7	cK	651	PHE
7	cK	653	GLU
7	cK	655	THR
7	cL	32	LYS
7	cL	58	THR
7	cL	66	MET
7	cL	72	LEU
7	cL	84	VAL
7	cL	88	THR
7	cL	112	VAL
7	cL	116	ILE

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Mol	Chain	Res	Type
7	cL	121	VAL
7	cL	130	LYS
7	cL	139	LYS
7	cL	141	LYS
7	cL	149	LYS
7	cL	166	ASN
7	cL	182	ILE
7	cL	186	LYS
7	cL	195	LEU
7	cL	202	GLU
7	cL	205	MET
7	cL	209	ASP
7	cL	215	LYS
7	cL	219	ILE
7	cL	229	GLU
7	cL	230	LEU
7	cL	290	VAL
7	cL	298	LYS
7	cL	303	ASP
7	cL	321	GLU
7	cL	344	LEU
7	cL	383	LEU
7	cL	398	ASP
7	cL	399	VAL
7	cL	404	LEU
7	cL	407	CYS
7	cL	408	SER
7	cL	413	THR
7	cL	417	ILE
7	cL	430	ARG
7	cL	450	ILE
7	cL	459	ASP
7	cL	467	TRP
7	cL	490	SER
7	cL	495	ASN
7	cL	499	ILE
7	cL	503	ILE
7	cL	505	LEU
7	cL	517	LEU
7	cL	523	ASN
7	cL	535	LEU
7	cL	536	TYR

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Mol	Chain	Res	Type
7	cL	550	ARG
7	cL	551	ILE
7	cL	556	LEU
7	cL	571	ARG
7	cL	574	GLU
7	cL	592	LEU
7	cL	606	VAL
7	cL	624	VAL
7	cL	634	SER
7	cL	650	ASP
7	cL	651	PHE
7	cL	655	THR
7	cM	9	GLU
7	cM	32	LYS
7	cM	47	GLU
7	cM	66	MET
7	cM	72	LEU
7	cM	88	THR
7	cM	112	VAL
7	cM	130	LYS
7	cM	139	LYS
7	cM	141	LYS
7	cM	149	LYS
7	cM	166	ASN
7	cM	171	ILE
7	cM	186	LYS
7	cM	195	LEU
7	cM	197	GLU
7	cM	202	GLU
7	cM	205	MET
7	cM	219	ILE
7	cM	230	LEU
7	cM	251	LEU
7	cM	271	TYR
7	cM	287	ASP
7	cM	290	VAL
7	cM	297	THR
7	cM	298	LYS
7	cM	303	ASP
7	cM	344	LEU
7	cM	366	GLU
7	cM	368	VAL

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Mol	Chain	Res	Type
7	cM	372	LEU
7	cM	383	LEU
7	cM	385	THR
7	cM	398	ASP
7	cM	404	LEU
7	cM	413	THR
7	cM	417	ILE
7	cM	421	ARG
7	cM	430	ARG
7	cM	450	ILE
7	cM	451	ASP
7	cM	456	TYR
7	cM	459	ASP
7	cM	467	TRP
7	cM	484	VAL
7	cM	496	ARG
7	cM	503	ILE
7	cM	505	LEU
7	cM	517	LEU
7	cM	523	ASN
7	cM	535	LEU
7	cM	536	TYR
7	cM	542	THR
7	cM	550	ARG
7	cM	552	ASN
7	cM	556	LEU
7	cM	571	ARG
7	cM	574	GLU
7	cM	592	LEU
7	cM	596	LYS
7	cM	606	VAL
7	cM	620	ARG
7	cM	650	ASP
7	cM	651	PHE
7	cM	655	THR
7	cN	14	THR
7	cN	32	LYS
7	cN	47	GLU
7	cN	58	THR
7	cN	66	MET
7	cN	72	LEU
7	cN	88	THR

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Mol	Chain	Res	Type
7	cN	112	VAL
7	cN	116	ILE
7	cN	121	VAL
7	cN	130	LYS
7	cN	139	LYS
7	cN	141	LYS
7	cN	149	LYS
7	cN	166	ASN
7	cN	182	ILE
7	cN	186	LYS
7	cN	195	LEU
7	cN	202	GLU
7	cN	209	ASP
7	cN	215	LYS
7	cN	219	ILE
7	cN	229	GLU
7	cN	230	LEU
7	cN	239	VAL
7	cN	260	THR
7	cN	271	TYR
7	cN	281	ILE
7	cN	290	VAL
7	cN	298	LYS
7	cN	303	ASP
7	cN	304	ILE
7	cN	306	ASP
7	cN	307	SER
7	cN	313	ASP
7	cN	321	GLU
7	cN	344	LEU
7	cN	383	LEU
7	cN	384	GLU
7	cN	385	THR
7	cN	398	ASP
7	cN	399	VAL
7	cN	404	LEU
7	cN	412	GLU
7	cN	417	ILE
7	cN	430	ARG
7	cN	456	TYR
7	cN	464	VAL
7	cN	467	TRP

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Mol	Chain	Res	Type
7	cN	477	LEU
7	cN	487	THR
7	cN	495	ASN
7	cN	503	ILE
7	cN	517	LEU
7	cN	523	ASN
7	cN	535	LEU
7	cN	536	TYR
7	cN	542	THR
7	cN	550	ARG
7	cN	551	ILE
7	cN	572	LEU
7	cN	574	GLU
7	cN	580	THR
7	cN	592	LEU
7	cN	596	LYS
7	cN	606	VAL
7	cN	624	VAL
7	cN	629	ILE
7	cN	650	ASP
7	cN	651	PHE
7	cN	655	THR
7	cO	9	GLU
7	cO	32	LYS
7	cO	48	VAL
7	cO	66	MET
7	cO	72	LEU
7	cO	84	VAL
7	cO	88	THR
7	cO	112	VAL
7	cO	130	LYS
7	cO	139	LYS
7	cO	141	LYS
7	cO	149	LYS
7	cO	166	ASN
7	cO	171	ILE
7	cO	186	LYS
7	cO	194	LEU
7	cO	195	LEU
7	cO	197	GLU
7	cO	202	GLU
7	cO	205	MET

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Mol	Chain	Res	Type
7	cO	219	ILE
7	cO	230	LEU
7	cO	271	TYR
7	cO	290	VAL
7	cO	298	LYS
7	cO	303	ASP
7	cO	304	ILE
7	cO	311	ILE
7	cO	344	LEU
7	cO	351	THR
7	cO	368	VAL
7	cO	383	LEU
7	cO	398	ASP
7	cO	404	LEU
7	cO	407	CYS
7	cO	415	VAL
7	cO	417	ILE
7	cO	430	ARG
7	cO	450	ILE
7	cO	456	TYR
7	cO	460	LYS
7	cO	467	TRP
7	cO	477	LEU
7	cO	484	VAL
7	cO	487	THR
7	cO	490	SER
7	cO	503	ILE
7	cO	517	LEU
7	cO	523	ASN
7	cO	535	LEU
7	cO	536	TYR
7	cO	542	THR
7	cO	550	ARG
7	cO	556	LEU
7	cO	590	GLN
7	cO	592	LEU
7	cO	605	ARG
7	cO	606	VAL
7	cO	612	ASN
7	cO	650	ASP
7	cO	651	PHE
7	cO	655	THR

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Mol	Chain	Res	Type
7	cP	11	LYS
7	cP	14	THR
7	cP	32	LYS
7	cP	47	GLU
7	cP	66	MET
7	cP	72	LEU
7	cP	88	THR
7	cP	112	VAL
7	cP	121	VAL
7	cP	130	LYS
7	cP	139	LYS
7	cP	141	LYS
7	cP	149	LYS
7	cP	166	ASN
7	cP	182	ILE
7	cP	186	LYS
7	cP	195	LEU
7	cP	202	GLU
7	cP	205	MET
7	cP	209	ASP
7	cP	215	LYS
7	cP	219	ILE
7	cP	229	GLU
7	cP	230	LEU
7	cP	239	VAL
7	cP	260	THR
7	cP	264	THR
7	cP	290	VAL
7	cP	298	LYS
7	cP	299	ARG
7	cP	303	ASP
7	cP	304	ILE
7	cP	321	GLU
7	cP	344	LEU
7	cP	366	GLU
7	cP	372	LEU
7	cP	383	LEU
7	cP	385	THR
7	cP	398	ASP
7	cP	399	VAL
7	cP	404	LEU
7	cP	408	SER

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Mol	Chain	Res	Type
7	cP	413	THR
7	cP	417	ILE
7	cP	430	ARG
7	cP	442	ASN
7	cP	450	ILE
7	cP	456	TYR
7	cP	459	ASP
7	cP	467	TRP
7	cP	484	VAL
7	cP	495	ASN
7	cP	499	ILE
7	cP	503	ILE
7	cP	505	LEU
7	cP	517	LEU
7	cP	523	ASN
7	cP	535	LEU
7	cP	536	TYR
7	cP	550	ARG
7	cP	551	ILE
7	cP	556	LEU
7	cP	572	LEU
7	cP	574	GLU
7	cP	580	THR
7	cP	590	GLN
7	cP	592	LEU
7	cP	596	LYS
7	cP	606	VAL
7	cP	650	ASP
7	cP	651	PHE
7	cP	655	THR
7	dS	11	LYS
7	dS	13	THR
7	dS	16	GLN
7	dS	19	VAL
7	dS	20	VAL
7	dS	26	THR
7	dS	32	LYS
7	dS	42	LYS
7	dS	66	MET
7	dS	72	LEU
7	dS	81	VAL
7	dS	86	ARG

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Mol	Chain	Res	Type
7	dS	88	THR
7	dS	92	SER
7	dS	112	VAL
7	dS	114	ASP
7	dS	128	GLU
7	dS	130	LYS
7	dS	135	ASP
7	dS	137	ASP
7	dS	141	LYS
7	dS	149	LYS
7	dS	171	ILE
7	dS	182	ILE
7	dS	186	LYS
7	dS	195	LEU
7	dS	197	GLU
7	dS	199	GLU
7	dS	202	GLU
7	dS	216	LYS
7	dS	219	ILE
7	dS	260	THR
7	dS	290	VAL
7	dS	297	THR
7	dS	305	TYR
7	dS	344	LEU
7	dS	372	LEU
7	dS	383	LEU
7	dS	398	ASP
7	dS	404	LEU
7	dS	407	CYS
7	dS	413	THR
7	dS	417	ILE
7	dS	420	THR
7	dS	426	LEU
7	dS	437	THR
7	dS	450	ILE
7	dS	470	LEU
7	dS	487	THR
7	dS	502	VAL
7	dS	503	ILE
7	dS	505	LEU
7	dS	517	LEU
7	dS	523	ASN

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Mol	Chain	Res	Type
7	dS	531	ASP
7	dS	535	LEU
7	dS	544	VAL
7	dS	550	ARG
7	dS	552	ASN
7	dS	553	VAL
7	dS	559	MET
7	dS	569	LYS
7	dS	572	LEU
7	dS	574	GLU
7	dS	596	LYS
7	dS	601	ILE
7	dS	629	ILE
7	dS	639	THR
7	dS	643	VAL
7	dT	11	LYS
7	dT	19	VAL
7	dT	20	VAL
7	dT	22	ASN
7	dT	26	THR
7	dT	32	LYS
7	dT	45	THR
7	dT	60	GLU
7	dT	63	ASP
7	dT	66	MET
7	dT	81	VAL
7	dT	84	VAL
7	dT	88	THR
7	dT	112	VAL
7	dT	114	ASP
7	dT	130	LYS
7	dT	134	VAL
7	dT	135	ASP
7	dT	137	ASP
7	dT	141	LYS
7	dT	149	LYS
7	dT	171	ILE
7	dT	182	ILE
7	dT	194	LEU
7	dT	197	GLU
7	dT	199	GLU
7	dT	202	GLU

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Mol	Chain	Res	Type
7	dT	209	ASP
7	dT	219	ILE
7	dT	229	GLU
7	dT	230	LEU
7	dT	255	TYR
7	dT	260	THR
7	dT	264	THR
7	dT	271	TYR
7	dT	290	VAL
7	dT	296	SER
7	dT	344	LEU
7	dT	349	GLU
7	dT	368	VAL
7	dT	383	LEU
7	dT	385	THR
7	dT	398	ASP
7	dT	404	LEU
7	dT	413	THR
7	dT	417	ILE
7	dT	430	ARG
7	dT	453	ASN
7	dT	456	TYR
7	dT	460	LYS
7	dT	503	ILE
7	dT	505	LEU
7	dT	517	LEU
7	dT	523	ASN
7	dT	531	ASP
7	dT	535	LEU
7	dT	544	VAL
7	dT	550	ARG
7	dT	551	ILE
7	dT	553	VAL
7	dT	574	GLU
7	dT	592	LEU
7	dT	596	LYS
7	dT	606	VAL
7	dT	612	ASN
7	dT	629	ILE
7	dT	643	VAL
7	dU	11	LYS
7	dU	15	VAL

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Mol	Chain	Res	Type
7	dU	16	GLN
7	dU	19	VAL
7	dU	26	THR
7	dU	32	LYS
7	dU	42	LYS
7	dU	66	MET
7	dU	72	LEU
7	dU	80	VAL
7	dU	88	THR
7	dU	112	VAL
7	dU	114	ASP
7	dU	123	ASP
7	dU	128	GLU
7	dU	130	LYS
7	dU	135	ASP
7	dU	137	ASP
7	dU	141	LYS
7	dU	149	LYS
7	dU	151	ILE
7	dU	171	ILE
7	dU	182	ILE
7	dU	186	LYS
7	dU	195	LEU
7	dU	197	GLU
7	dU	199	GLU
7	dU	202	GLU
7	dU	216	LYS
7	dU	219	ILE
7	dU	268	VAL
7	dU	290	VAL
7	dU	297	THR
7	dU	305	TYR
7	dU	332	GLU
7	dU	344	LEU
7	dU	366	GLU
7	dU	372	LEU
7	dU	383	LEU
7	dU	398	ASP
7	dU	404	LEU
7	dU	407	CYS
7	dU	413	THR
7	dU	417	ILE

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Mol	Chain	Res	Type
7	dU	430	ARG
7	dU	437	THR
7	dU	450	ILE
7	dU	456	TYR
7	dU	460	LYS
7	dU	466	ARG
7	dU	467	TRP
7	dU	484	VAL
7	dU	503	ILE
7	dU	505	LEU
7	dU	508	GLU
7	dU	520	GLU
7	dU	523	ASN
7	dU	531	ASP
7	dU	535	LEU
7	dU	544	VAL
7	dU	550	ARG
7	dU	551	ILE
7	dU	553	VAL
7	dU	560	LEU
7	dU	596	LYS
7	dU	601	ILE
7	dU	629	ILE
7	dU	635	ILE
7	dU	639	THR
7	dU	643	VAL
7	dV	11	LYS
7	dV	19	VAL
7	dV	20	VAL
7	dV	22	ASN
7	dV	26	THR
7	dV	32	LYS
7	dV	58	THR
7	dV	60	GLU
7	dV	63	ASP
7	dV	66	MET
7	dV	81	VAL
7	dV	86	ARG
7	dV	88	THR
7	dV	112	VAL
7	dV	114	ASP
7	dV	130	LYS

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Mol	Chain	Res	Type
7	dV	135	ASP
7	dV	137	ASP
7	dV	141	LYS
7	dV	149	LYS
7	dV	171	ILE
7	dV	197	GLU
7	dV	199	GLU
7	dV	202	GLU
7	dV	209	ASP
7	dV	216	LYS
7	dV	219	ILE
7	dV	229	GLU
7	dV	230	LEU
7	dV	239	VAL
7	dV	260	THR
7	dV	264	THR
7	dV	271	TYR
7	dV	290	VAL
7	dV	321	GLU
7	dV	344	LEU
7	dV	349	GLU
7	dV	351	THR
7	dV	372	LEU
7	dV	383	LEU
7	dV	385	THR
7	dV	398	ASP
7	dV	404	LEU
7	dV	408	SER
7	dV	417	ILE
7	dV	430	ARG
7	dV	431	THR
7	dV	450	ILE
7	dV	453	ASN
7	dV	456	TYR
7	dV	460	LYS
7	dV	503	ILE
7	dV	505	LEU
7	dV	517	LEU
7	dV	523	ASN
7	dV	535	LEU
7	dV	544	VAL
7	dV	553	VAL

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Mol	Chain	Res	Type
7	dV	574	GLU
7	dV	606	VAL
7	dV	607	VAL
7	dV	612	ASN
7	dV	629	ILE
7	dV	643	VAL
7	dW	10	LEU
7	dW	11	LYS
7	dW	16	GLN
7	dW	19	VAL
7	dW	26	THR
7	dW	32	LYS
7	dW	66	MET
7	dW	72	LEU
7	dW	86	ARG
7	dW	88	THR
7	dW	112	VAL
7	dW	114	ASP
7	dW	123	ASP
7	dW	124	ASP
7	dW	128	GLU
7	dW	130	LYS
7	dW	135	ASP
7	dW	137	ASP
7	dW	141	LYS
7	dW	149	LYS
7	dW	171	ILE
7	dW	182	ILE
7	dW	186	LYS
7	dW	195	LEU
7	dW	197	GLU
7	dW	199	GLU
7	dW	202	GLU
7	dW	219	ILE
7	dW	230	LEU
7	dW	290	VAL
7	dW	297	THR
7	dW	305	TYR
7	dW	344	LEU
7	dW	372	LEU
7	dW	383	LEU
7	dW	385	THR

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Mol	Chain	Res	Type
7	dW	398	ASP
7	dW	404	LEU
7	dW	413	THR
7	dW	415	VAL
7	dW	417	ILE
7	dW	450	ILE
7	dW	455	LYS
7	dW	460	LYS
7	dW	466	ARG
7	dW	487	THR
7	dW	502	VAL
7	dW	503	ILE
7	dW	505	LEU
7	dW	517	LEU
7	dW	523	ASN
7	dW	531	ASP
7	dW	535	LEU
7	dW	544	VAL
7	dW	550	ARG
7	dW	551	ILE
7	dW	553	VAL
7	dW	569	LYS
7	dW	574	GLU
7	dW	601	ILE
7	dW	624	VAL
7	dW	629	ILE
7	dW	635	ILE
7	dW	639	THR
7	dW	643	VAL
7	dZ	9	GLU
7	dZ	10	LEU
7	dZ	11	LYS
7	dZ	16	GLN
7	dZ	20	VAL
7	dZ	22	ASN
7	dZ	26	THR
7	dZ	32	LYS
7	dZ	45	THR
7	dZ	58	THR
7	dZ	66	MET
7	dZ	72	LEU
7	dZ	78	LEU

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Mol	Chain	Res	Type
7	dZ	81	VAL
7	dZ	84	VAL
7	dZ	86	ARG
7	dZ	88	THR
7	dZ	112	VAL
7	dZ	114	ASP
7	dZ	130	LYS
7	dZ	135	ASP
7	dZ	137	ASP
7	dZ	149	LYS
7	dZ	171	ILE
7	dZ	194	LEU
7	dZ	195	LEU
7	dZ	197	GLU
7	dZ	199	GLU
7	dZ	202	GLU
7	dZ	209	ASP
7	dZ	216	LYS
7	dZ	219	ILE
7	dZ	230	LEU
7	dZ	239	VAL
7	dZ	255	TYR
7	dZ	264	THR
7	dZ	271	TYR
7	dZ	290	VAL
7	dZ	321	GLU
7	dZ	332	GLU
7	dZ	344	LEU
7	dZ	372	LEU
7	dZ	383	LEU
7	dZ	385	THR
7	dZ	398	ASP
7	dZ	403	CYS
7	dZ	413	THR
7	dZ	417	ILE
7	dZ	430	ARG
7	dZ	450	ILE
7	dZ	453	ASN
7	dZ	456	TYR
7	dZ	460	LYS
7	dZ	467	TRP
7	dZ	499	ILE

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Mol	Chain	Res	Type
7	dZ	503	ILE
7	dZ	505	LEU
7	dZ	517	LEU
7	dZ	523	ASN
7	dZ	528	THR
7	dZ	531	ASP
7	dZ	535	LEU
7	dZ	540	THR
7	dZ	544	VAL
7	dZ	551	ILE
7	dZ	553	VAL
7	dZ	596	LYS
7	dZ	606	VAL
7	dZ	629	ILE
7	dZ	635	ILE
7	dZ	639	THR
7	dZ	643	VAL
8	eB	19	GLU
8	eB	20	ILE
8	eB	35	GLU
8	eB	40	GLN
8	eB	57	CYS
8	eB	65	LEU
8	eB	67	ILE
8	eB	87	SER
8	eB	103	LYS
8	eB	110	ILE
8	eB	112	LEU
8	eB	114	CYS
8	eB	119	ASN
8	eB	138	THR
8	eB	144	ASN
8	eB	152	ILE
8	eB	157	LYS
8	eB	158	ASN
8	eB	165	LEU
8	eB	169	GLN
8	eB	182	LEU
8	eB	192	ILE
8	eB	198	LYS
8	eB	226	MET
8	eB	238	PHE

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Mol	Chain	Res	Type
8	eB	243	ILE
8	eB	261	LYS
8	eB	275	THR
8	eB	292	LEU
8	eB	296	THR
8	eB	307	ASP
8	eB	309	ASP
8	eB	318	ASP
8	eB	322	ILE
8	eB	324	ARG
8	eB	348	PHE
8	eB	351	GLU
8	eB	360	VAL
8	eB	361	GLN
8	eB	364	THR
8	eB	374	ILE
8	eB	384	LEU
8	eB	385	THR
8	eB	387	VAL
8	eB	388	GLN
8	eB	390	GLU
8	eB	392	ILE
8	eB	397	LYS
8	eB	400	ASN
8	eB	418	THR
8	eB	427	ASN
8	eB	429	LEU
8	eB	434	GLN
8	eB	436	LEU
8	eB	443	LYS
8	eB	476	ILE
8	eB	490	ASN
8	eB	493	LYS
8	eB	496	GLU
8	eB	504	GLN
8	eB	522	LYS
8	eB	523	VAL
8	eB	528	THR
8	eB	534	VAL
8	eB	548	LYS
8	eB	550	ILE
8	eB	564	THR

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Mol	Chain	Res	Type
8	eB	569	ILE
8	eB	576	ASP
8	eB	615	LYS
8	eB	618	VAL
8	eB	636	ASP
8	eU	19	GLU
8	eU	20	ILE
8	eU	35	GLU
8	eU	38	ASN
8	eU	40	GLN
8	eU	47	ASP
8	eU	65	LEU
8	eU	67	ILE
8	eU	101	THR
8	eU	108	THR
8	eU	110	ILE
8	eU	114	CYS
8	eU	119	ASN
8	eU	144	ASN
8	eU	157	LYS
8	eU	165	LEU
8	eU	169	GLN
8	eU	172	ILE
8	eU	183	THR
8	eU	198	LYS
8	eU	201	VAL
8	eU	205	GLU
8	eU	223	ILE
8	eU	238	PHE
8	eU	240	GLU
8	eU	261	LYS
8	eU	270	ILE
8	eU	276	ASN
8	eU	281	ASN
8	eU	292	LEU
8	eU	293	THR
8	eU	296	THR
8	eU	306	ASP
8	eU	314	ASP
8	eU	322	ILE
8	eU	324	ARG
8	eU	328	LEU

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Mol	Chain	Res	Type
8	eU	340	VAL
8	eU	344	ASP
8	eU	351	GLU
8	eU	360	VAL
8	eU	362	THR
8	eU	364	THR
8	eU	374	ILE
8	eU	384	LEU
8	eU	385	THR
8	eU	388	GLN
8	eU	390	GLU
8	eU	392	ILE
8	eU	397	LYS
8	eU	414	LEU
8	eU	418	THR
8	eU	421	LYS
8	eU	423	THR
8	eU	427	ASN
8	eU	429	LEU
8	eU	433	GLU
8	eU	434	GLN
8	eU	436	LEU
8	eU	439	GLN
8	eU	440	ILE
8	eU	441	ILE
8	eU	466	THR
8	eU	476	ILE
8	eU	493	LYS
8	eU	496	GLU
8	eU	507	ASP
8	eU	521	ARG
8	eU	522	LYS
8	eU	523	VAL
8	eU	528	THR
8	eU	535	LEU
8	eU	548	LYS
8	eU	550	ILE
8	eU	553	VAL
8	eU	563	VAL
8	eU	564	THR
8	eU	565	GLU
8	eU	569	ILE

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Mol	Chain	Res	Type
8	eU	579	LYS
8	eU	588	LYS
8	eU	628	THR
8	eU	641	VAL
8	eU	643	GLU
8	eU	651	LEU
8	eW	19	GLU
8	eW	20	ILE
8	eW	28	GLU
8	eW	35	GLU
8	eW	45	ASP
8	eW	65	LEU
8	eW	67	ILE
8	eW	77	GLU
8	eW	87	SER
8	eW	94	GLN
8	eW	103	LYS
8	eW	110	ILE
8	eW	119	ASN
8	eW	144	ASN
8	eW	157	LYS
8	eW	158	ASN
8	eW	165	LEU
8	eW	169	GLN
8	eW	182	LEU
8	eW	192	ILE
8	eW	198	LYS
8	eW	238	PHE
8	eW	240	GLU
8	eW	243	ILE
8	eW	249	GLU
8	eW	261	LYS
8	eW	275	THR
8	eW	276	ASN
8	eW	292	LEU
8	eW	293	THR
8	eW	296	THR
8	eW	298	ILE
8	eW	307	ASP
8	eW	309	ASP
8	eW	318	ASP
8	eW	322	ILE

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Mol	Chain	Res	Type
8	eW	324	ARG
8	eW	336	GLN
8	eW	344	ASP
8	eW	346	ASP
8	eW	348	PHE
8	eW	351	GLU
8	eW	360	VAL
8	eW	361	GLN
8	eW	362	THR
8	eW	385	THR
8	eW	388	GLN
8	eW	390	GLU
8	eW	392	ILE
8	eW	397	LYS
8	eW	400	ASN
8	eW	418	THR
8	eW	427	ASN
8	eW	429	LEU
8	eW	434	GLN
8	eW	436	LEU
8	eW	441	ILE
8	eW	443	LYS
8	eW	466	THR
8	eW	476	ILE
8	eW	493	LYS
8	eW	494	THR
8	eW	496	GLU
8	eW	504	GLN
8	eW	517	PHE
8	eW	518	ASN
8	eW	522	LYS
8	eW	528	THR
8	eW	534	VAL
8	eW	548	LYS
8	eW	550	ILE
8	eW	553	VAL
8	eW	564	THR
8	eW	576	ASP
8	eW	580	LEU
8	eW	608	LYS
8	eW	614	GLU
8	eW	615	LYS

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Mol	Chain	Res	Type
8	eW	636	ASP
8	f9	3	ASN
8	f9	4	THR
8	f9	10	LEU
8	f9	30	LYS
8	f9	52	ARG
8	f9	65	LEU
8	f9	67	ILE
8	f9	87	SER
8	f9	94	GLN
8	f9	103	LYS
8	f9	107	GLN
8	f9	112	LEU
8	f9	113	THR
8	f9	123	ILE
8	f9	124	THR
8	f9	150	ASP
8	f9	151	VAL
8	f9	152	ILE
8	f9	155	ARG
8	f9	158	ASN
8	f9	159	ASN
8	f9	175	THR
8	f9	182	LEU
8	f9	192	ILE
8	f9	198	LYS
8	f9	214	MET
8	f9	215	VAL
8	f9	223	ILE
8	f9	252	LEU
8	f9	253	THR
8	f9	255	ASN
8	f9	269	VAL
8	f9	270	ILE
8	f9	273	ILE
8	f9	291	THR
8	f9	292	LEU
8	f9	300	ILE
8	f9	305	ASN
8	f9	311	VAL
8	f9	322	ILE
8	f9	327	GLU

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Mol	Chain	Res	Type
8	f9	338	ARG
8	f9	341	THR
8	f9	346	ASP
8	f9	352	ARG
8	f9	356	ILE
8	f9	360	VAL
8	f9	364	THR
8	f9	385	THR
8	f9	386	THR
8	f9	392	ILE
8	f9	397	LYS
8	f9	399	TYR
8	f9	400	ASN
8	f9	408	ILE
8	f9	409	ILE
8	f9	413	TYR
8	f9	420	LEU
8	f9	426	LEU
8	f9	428	LYS
8	f9	429	LEU
8	f9	430	GLN
8	f9	431	GLU
8	f9	436	LEU
8	f9	441	ILE
8	f9	443	LYS
8	f9	452	VAL
8	f9	473	HIS
8	f9	481	THR
8	f9	500	LYS
8	f9	510	MET
8	f9	535	LEU
8	f9	550	ILE
8	f9	564	THR
8	f9	576	ASP
8	f9	580	LEU
8	f9	594	GLU
8	f9	595	ILE
8	f9	601	VAL
8	f9	609	ILE
8	f9	612	THR
8	f9	618	VAL
8	f9	623	LEU

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Mol	Chain	Res	Type
8	f9	631	VAL
8	f9	636	ASP
8	f9	641	VAL
8	f9	645	ASP
8	f9	654	ASP
8	f9	655	LEU
8	fA	3	ASN
8	fA	10	LEU
8	fA	13	THR
8	fA	30	LYS
8	fA	40	GLN
8	fA	41	ASN
8	fA	49	GLU
8	fA	52	ARG
8	fA	56	LEU
8	fA	67	ILE
8	fA	68	GLN
8	fA	72	ASN
8	fA	103	LYS
8	fA	107	GLN
8	fA	112	LEU
8	fA	113	THR
8	fA	114	CYS
8	fA	121	ASN
8	fA	123	ILE
8	fA	141	ASN
8	fA	151	VAL
8	fA	154	ILE
8	fA	155	ARG
8	fA	159	ASN
8	fA	165	LEU
8	fA	175	THR
8	fA	191	ASN
8	fA	192	ILE
8	fA	198	LYS
8	fA	201	VAL
8	fA	214	MET
8	fA	223	ILE
8	fA	230	ILE
8	fA	252	LEU
8	fA	253	THR
8	fA	255	ASN

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Mol	Chain	Res	Type
8	fA	266	SER
8	fA	269	VAL
8	fA	270	ILE
8	fA	292	LEU
8	fA	300	ILE
8	fA	305	ASN
8	fA	322	ILE
8	fA	338	ARG
8	fA	347	THR
8	fA	352	ARG
8	fA	356	ILE
8	fA	360	VAL
8	fA	361	GLN
8	fA	374	ILE
8	fA	386	THR
8	fA	387	VAL
8	fA	392	ILE
8	fA	399	TYR
8	fA	400	ASN
8	fA	409	ILE
8	fA	413	TYR
8	fA	429	LEU
8	fA	431	GLU
8	fA	436	LEU
8	fA	452	VAL
8	fA	481	THR
8	fA	488	VAL
8	fA	507	ASP
8	fA	510	MET
8	fA	535	LEU
8	fA	544	ASP
8	fA	564	THR
8	fA	573	THR
8	fA	576	ASP
8	fA	580	LEU
8	fA	591	VAL
8	fA	595	ILE
8	fA	601	VAL
8	fA	609	ILE
8	fA	612	THR
8	fA	636	ASP
8	fA	654	ASP

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Mol	Chain	Res	Type
8	fA	655	LEU
8	fA	656	GLU
8	fB	12	ARG
8	fB	19	GLU
8	fB	20	ILE
8	fB	28	GLU
8	fB	35	GLU
8	fB	38	ASN
8	fB	59	LEU
8	fB	65	LEU
8	fB	67	ILE
8	fB	85	LEU
8	fB	94	GLN
8	fB	101	THR
8	fB	110	ILE
8	fB	113	THR
8	fB	119	ASN
8	fB	144	ASN
8	fB	157	LYS
8	fB	169	GLN
8	fB	183	THR
8	fB	201	VAL
8	fB	207	ILE
8	fB	223	ILE
8	fB	231	ASP
8	fB	238	PHE
8	fB	240	GLU
8	fB	242	GLU
8	fB	261	LYS
8	fB	270	ILE
8	fB	276	ASN
8	fB	292	LEU
8	fB	293	THR
8	fB	296	THR
8	fB	298	ILE
8	fB	306	ASP
8	fB	320	GLU
8	fB	322	ILE
8	fB	324	ARG
8	fB	340	VAL
8	fB	351	GLU
8	fB	360	VAL

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Mol	Chain	Res	Type
8	fB	361	GLN
8	fB	374	ILE
8	fB	385	THR
8	fB	388	GLN
8	fB	390	GLU
8	fB	392	ILE
8	fB	397	LYS
8	fB	398	ASP
8	fB	414	LEU
8	fB	418	THR
8	fB	421	LYS
8	fB	423	THR
8	fB	427	ASN
8	fB	429	LEU
8	fB	433	GLU
8	fB	434	GLN
8	fB	436	LEU
8	fB	439	GLN
8	fB	440	ILE
8	fB	441	ILE
8	fB	462	SER
8	fB	476	ILE
8	fB	493	LYS
8	fB	496	GLU
8	fB	504	GLN
8	fB	507	ASP
8	fB	522	LYS
8	fB	523	VAL
8	fB	528	THR
8	fB	535	LEU
8	fB	541	VAL
8	fB	548	LYS
8	fB	550	ILE
8	fB	553	VAL
8	fB	563	VAL
8	fB	564	THR
8	fB	569	ILE
8	fB	588	LYS
8	fB	618	VAL
8	fB	643	GLU
8	fB	651	LEU
8	fR	13	THR

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Mol	Chain	Res	Type
8	fR	30	LYS
8	fR	40	GLN
8	fR	41	ASN
8	fR	49	GLU
8	fR	52	ARG
8	fR	53	LEU
8	fR	67	ILE
8	fR	68	GLN
8	fR	75	VAL
8	fR	87	SER
8	fR	103	LYS
8	fR	107	GLN
8	fR	112	LEU
8	fR	113	THR
8	fR	121	ASN
8	fR	123	ILE
8	fR	149	GLU
8	fR	150	ASP
8	fR	151	VAL
8	fR	152	ILE
8	fR	154	ILE
8	fR	155	ARG
8	fR	158	ASN
8	fR	159	ASN
8	fR	191	ASN
8	fR	192	ILE
8	fR	196	GLN
8	fR	198	LYS
8	fR	213	SER
8	fR	214	MET
8	fR	223	ILE
8	fR	252	LEU
8	fR	253	THR
8	fR	255	ASN
8	fR	266	SER
8	fR	269	VAL
8	fR	270	ILE
8	fR	271	GLU
8	fR	274	SER
8	fR	300	ILE
8	fR	305	ASN
8	fR	322	ILE

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Mol	Chain	Res	Type
8	fR	336	GLN
8	fR	338	ARG
8	fR	346	ASP
8	fR	352	ARG
8	fR	356	ILE
8	fR	360	VAL
8	fR	361	GLN
8	fR	387	VAL
8	fR	392	ILE
8	fR	397	LYS
8	fR	399	TYR
8	fR	400	ASN
8	fR	408	ILE
8	fR	409	ILE
8	fR	427	ASN
8	fR	429	LEU
8	fR	431	GLU
8	fR	432	SER
8	fR	436	LEU
8	fR	452	VAL
8	fR	466	THR
8	fR	481	THR
8	fR	489	GLN
8	fR	494	THR
8	fR	499	ILE
8	fR	507	ASP
8	fR	510	MET
8	fR	518	ASN
8	fR	530	LEU
8	fR	535	LEU
8	fR	544	ASP
8	fR	564	THR
8	fR	573	THR
8	fR	576	ASP
8	fR	591	VAL
8	fR	595	ILE
8	fR	601	VAL
8	fR	609	ILE
8	fR	621	ILE
8	fR	630	ASP
8	fR	636	ASP
8	fR	639	LEU

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Mol	Chain	Res	Type
8	fR	655	LEU
8	fR	656	GLU
8	fS	3	ASN
8	fS	10	LEU
8	fS	13	THR
8	fS	30	LYS
8	fS	44	LEU
8	fS	52	ARG
8	fS	56	LEU
8	fS	67	ILE
8	fS	68	GLN
8	fS	94	GLN
8	fS	103	LYS
8	fS	107	GLN
8	fS	123	ILE
8	fS	124	THR
8	fS	129	THR
8	fS	130	ARG
8	fS	150	ASP
8	fS	151	VAL
8	fS	154	ILE
8	fS	155	ARG
8	fS	158	ASN
8	fS	159	ASN
8	fS	175	THR
8	fS	182	LEU
8	fS	192	ILE
8	fS	198	LYS
8	fS	215	VAL
8	fS	233	ASN
8	fS	252	LEU
8	fS	253	THR
8	fS	255	ASN
8	fS	269	VAL
8	fS	270	ILE
8	fS	273	ILE
8	fS	292	LEU
8	fS	293	THR
8	fS	300	ILE
8	fS	309	ASP
8	fS	322	ILE
8	fS	327	GLU

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Mol	Chain	Res	Type
8	fS	336	GLN
8	fS	338	ARG
8	fS	341	THR
8	fS	346	ASP
8	fS	352	ARG
8	fS	356	ILE
8	fS	360	VAL
8	fS	374	ILE
8	fS	385	THR
8	fS	386	THR
8	fS	392	ILE
8	fS	397	LYS
8	fS	399	TYR
8	fS	400	ASN
8	fS	404	ILE
8	fS	408	ILE
8	fS	409	ILE
8	fS	413	TYR
8	fS	423	THR
8	fS	428	LYS
8	fS	429	LEU
8	fS	431	GLU
8	fS	436	LEU
8	fS	443	LYS
8	fS	452	VAL
8	fS	473	HIS
8	fS	481	THR
8	fS	484	MET
8	fS	499	ILE
8	fS	510	MET
8	fS	522	LYS
8	fS	535	LEU
8	fS	550	ILE
8	fS	580	LEU
8	fS	594	GLU
8	fS	595	ILE
8	fS	609	ILE
8	fS	612	THR
8	fS	618	VAL
8	fS	623	LEU
8	fS	636	ASP
8	fS	645	ASP

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Mol	Chain	Res	Type
8	fS	654	ASP
8	fS	655	LEU
8	fS	656	GLU
8	fU	19	GLU
8	fU	20	ILE
8	fU	35	GLU
8	fU	47	ASP
8	fU	67	ILE
8	fU	75	VAL
8	fU	101	THR
8	fU	119	ASN
8	fU	123	ILE
8	fU	144	ASN
8	fU	152	ILE
8	fU	157	LYS
8	fU	165	LEU
8	fU	169	GLN
8	fU	182	LEU
8	fU	183	THR
8	fU	201	VAL
8	fU	231	ASP
8	fU	238	PHE
8	fU	240	GLU
8	fU	261	LYS
8	fU	270	ILE
8	fU	276	ASN
8	fU	281	ASN
8	fU	293	THR
8	fU	296	THR
8	fU	298	ILE
8	fU	318	ASP
8	fU	322	ILE
8	fU	324	ARG
8	fU	340	VAL
8	fU	349	VAL
8	fU	351	GLU
8	fU	360	VAL
8	fU	362	THR
8	fU	374	ILE
8	fU	385	THR
8	fU	388	GLN
8	fU	392	ILE

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Mol	Chain	Res	Type
8	fU	397	LYS
8	fU	398	ASP
8	fU	414	LEU
8	fU	418	THR
8	fU	421	LYS
8	fU	427	ASN
8	fU	429	LEU
8	fU	433	GLU
8	fU	434	GLN
8	fU	436	LEU
8	fU	440	ILE
8	fU	441	ILE
8	fU	476	ILE
8	fU	493	LYS
8	fU	496	GLU
8	fU	500	LYS
8	fU	504	GLN
8	fU	521	ARG
8	fU	522	LYS
8	fU	523	VAL
8	fU	528	THR
8	fU	535	LEU
8	fU	548	LYS
8	fU	563	VAL
8	fU	564	THR
8	fU	565	GLU
8	fU	569	ILE
8	fU	588	LYS
8	fU	618	VAL
8	fU	628	THR
8	fU	643	GLU
8	fU	651	LEU
8	fW	19	GLU
8	fW	20	ILE
8	fW	35	GLU
8	fW	40	GLN
8	fW	45	ASP
8	fW	57	CYS
8	fW	65	LEU
8	fW	67	ILE
8	fW	77	GLU
8	fW	119	ASN

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Mol	Chain	Res	Type
8	fW	138	THR
8	fW	140	VAL
8	fW	144	ASN
8	fW	157	LYS
8	fW	158	ASN
8	fW	169	GLN
8	fW	182	LEU
8	fW	198	LYS
8	fW	223	ILE
8	fW	238	PHE
8	fW	240	GLU
8	fW	243	ILE
8	fW	261	LYS
8	fW	275	THR
8	fW	276	ASN
8	fW	292	LEU
8	fW	293	THR
8	fW	295	ILE
8	fW	296	THR
8	fW	302	GLU
8	fW	309	ASP
8	fW	320	GLU
8	fW	322	ILE
8	fW	324	ARG
8	fW	340	VAL
8	fW	348	PHE
8	fW	351	GLU
8	fW	360	VAL
8	fW	361	GLN
8	fW	362	THR
8	fW	364	THR
8	fW	374	ILE
8	fW	384	LEU
8	fW	385	THR
8	fW	388	GLN
8	fW	390	GLU
8	fW	392	ILE
8	fW	397	LYS
8	fW	400	ASN
8	fW	418	THR
8	fW	427	ASN
8	fW	429	LEU

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Mol	Chain	Res	Type
8	fW	434	GLN
8	fW	436	LEU
8	fW	441	ILE
8	fW	443	LYS
8	fW	452	VAL
8	fW	476	ILE
8	fW	493	LYS
8	fW	496	GLU
8	fW	499	ILE
8	fW	504	GLN
8	fW	521	ARG
8	fW	522	LYS
8	fW	523	VAL
8	fW	528	THR
8	fW	534	VAL
8	fW	548	LYS
8	fW	550	ILE
8	fW	564	THR
8	fW	569	ILE
8	fW	576	ASP
8	fW	579	LYS
8	fW	580	LEU
8	fW	615	LYS
8	fW	628	THR
8	fW	636	ASP
8	fW	643	GLU
8	fr	3	ASN
8	fr	13	THR
8	fr	30	LYS
8	fr	41	ASN
8	fr	52	ARG
8	fr	67	ILE
8	fr	68	GLN
8	fr	87	SER
8	fr	103	LYS
8	fr	107	GLN
8	fr	112	LEU
8	fr	113	THR
8	fr	119	ASN
8	fr	121	ASN
8	fr	149	GLU
8	fr	150	ASP

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Mol	Chain	Res	Type
8	fr	151	VAL
8	fr	154	ILE
8	fr	155	ARG
8	fr	158	ASN
8	fr	165	LEU
8	fr	175	THR
8	fr	191	ASN
8	fr	192	ILE
8	fr	214	MET
8	fr	215	VAL
8	fr	223	ILE
8	fr	229	THR
8	fr	230	ILE
8	fr	242	GLU
8	fr	252	LEU
8	fr	253	THR
8	fr	255	ASN
8	fr	266	SER
8	fr	269	VAL
8	fr	270	ILE
8	fr	292	LEU
8	fr	295	ILE
8	fr	298	ILE
8	fr	300	ILE
8	fr	305	ASN
8	fr	322	ILE
8	fr	338	ARG
8	fr	341	THR
8	fr	347	THR
8	fr	348	PHE
8	fr	352	ARG
8	fr	356	ILE
8	fr	360	VAL
8	fr	386	THR
8	fr	387	VAL
8	fr	388	GLN
8	fr	392	ILE
8	fr	399	TYR
8	fr	400	ASN
8	fr	404	ILE
8	fr	409	ILE
8	fr	418	THR

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Mol	Chain	Res	Type
8	fr	429	LEU
8	fr	431	GLU
8	fr	436	LEU
8	fr	443	LYS
8	fr	452	VAL
8	fr	473	HIS
8	fr	488	VAL
8	fr	489	GLN
8	fr	499	ILE
8	fr	507	ASP
8	fr	510	MET
8	fr	518	ASN
8	fr	530	LEU
8	fr	535	LEU
8	fr	540	ILE
8	fr	550	ILE
8	fr	564	THR
8	fr	573	THR
8	fr	576	ASP
8	fr	591	VAL
8	fr	595	ILE
8	fr	601	VAL
8	fr	609	ILE
8	fr	612	THR
8	fr	614	GLU
8	fr	631	VAL
8	fr	636	ASP
8	fr	655	LEU
8	fr	656	GLU
8	fs	3	ASN
8	fs	10	LEU
8	fs	13	THR
8	fs	17	ILE
8	fs	30	LYS
8	fs	44	LEU
8	fs	49	GLU
8	fs	52	ARG
8	fs	56	LEU
8	fs	65	LEU
8	fs	67	ILE
8	fs	68	GLN
8	fs	103	LYS

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Mol	Chain	Res	Type
8	fs	107	GLN
8	fs	112	LEU
8	fs	113	THR
8	fs	123	ILE
8	fs	150	ASP
8	fs	151	VAL
8	fs	152	ILE
8	fs	154	ILE
8	fs	155	ARG
8	fs	158	ASN
8	fs	159	ASN
8	fs	182	LEU
8	fs	198	LYS
8	fs	202	ASP
8	fs	215	VAL
8	fs	223	ILE
8	fs	252	LEU
8	fs	253	THR
8	fs	255	ASN
8	fs	257	ILE
8	fs	269	VAL
8	fs	270	ILE
8	fs	274	SER
8	fs	300	ILE
8	fs	305	ASN
8	fs	306	ASP
8	fs	309	ASP
8	fs	322	ILE
8	fs	327	GLU
8	fs	336	GLN
8	fs	338	ARG
8	fs	341	THR
8	fs	346	ASP
8	fs	352	ARG
8	fs	356	ILE
8	fs	360	VAL
8	fs	374	ILE
8	fs	377	LYS
8	fs	385	THR
8	fs	386	THR
8	fs	387	VAL
8	fs	392	ILE

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Mol	Chain	Res	Type
8	fs	399	TYR
8	fs	400	ASN
8	fs	404	ILE
8	fs	409	ILE
8	fs	413	TYR
8	fs	427	ASN
8	fs	429	LEU
8	fs	430	GLN
8	fs	431	GLU
8	fs	436	LEU
8	fs	443	LYS
8	fs	452	VAL
8	fs	473	HIS
8	fs	481	THR
8	fs	510	MET
8	fs	522	LYS
8	fs	535	LEU
8	fs	550	ILE
8	fs	575	ASN
8	fs	576	ASP
8	fs	594	GLU
8	fs	595	ILE
8	fs	601	VAL
8	fs	609	ILE
8	fs	612	THR
8	fs	623	LEU
8	fs	636	ASP
8	fs	645	ASP
8	fs	654	ASP
8	fs	655	LEU
8	fs	656	GLU
9	gE	2	GLU
9	gE	3	MET
9	gE	4	ILE
9	gE	34	LEU
9	gE	38	GLN
9	gE	47	ILE
9	gE	49	THR
9	gE	50	GLU
9	gE	52	LEU
9	gE	56	SER
9	gE	61	ILE

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Mol	Chain	Res	Type
9	gE	66	MET
9	gE	73	VAL
9	gE	78	GLU
9	gE	82	VAL
9	gE	87	LEU
9	gE	110	ARG
9	gE	123	ARG
9	gE	152	LEU
9	gE	165	GLU
9	gE	168	THR
9	gE	180	LEU
9	gE	184	GLU
9	gE	200	ILE
9	gE	219	LYS
9	gE	221	LEU
9	gE	227	ARG
9	gE	236	ILE
9	gE	238	MET
9	gE	242	THR
9	gE	262	VAL
9	gE	293	ASN
9	gE	296	LEU
9	gE	299	MET
9	gE	331	ILE
9	gE	333	THR
9	gE	336	LEU
9	gE	341	VAL
9	gE	343	VAL
9	gE	362	ASP
9	gE	365	ASP
9	gE	373	ARG
9	gE	375	LEU
9	gE	386	GLU
9	gE	429	ARG
9	gE	433	LYS
9	gE	482	VAL
9	gE	485	ASP
9	gE	501	ASN
9	gE	517	ASP
9	gE	522	VAL
9	gE	525	ASN
9	gE	528	ASN

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Mol	Chain	Res	Type
9	gE	542	VAL
9	gE	550	TRP
9	gE	553	LYS
9	gE	566	THR
9	gG	2	GLU
9	gG	4	ILE
9	gG	24	LEU
9	gG	34	LEU
9	gG	47	ILE
9	gG	50	GLU
9	gG	51	LYS
9	gG	52	LEU
9	gG	56	SER
9	gG	61	ILE
9	gG	66	MET
9	gG	73	VAL
9	gG	78	GLU
9	gG	81	ARG
9	gG	82	VAL
9	gG	87	LEU
9	gG	123	ARG
9	gG	133	ASN
9	gG	138	VAL
9	gG	152	LEU
9	gG	168	THR
9	gG	180	LEU
9	gG	184	GLU
9	gG	199	THR
9	gG	200	ILE
9	gG	219	LYS
9	gG	227	ARG
9	gG	236	ILE
9	gG	238	MET
9	gG	262	VAL
9	gG	270	ASN
9	gG	293	ASN
9	gG	296	LEU
9	gG	336	LEU
9	gG	362	ASP
9	gG	365	ASP
9	gG	373	ARG
9	gG	375	LEU

Continued on next page...

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Mol	Chain	Res	Type
9	gG	386	GLU
9	gG	429	ARG
9	gG	482	VAL
9	gG	485	ASP
9	gG	517	ASP
9	gG	522	VAL
9	gG	525	ASN
9	gG	528	ASN
9	gG	542	VAL
9	gG	553	LYS
9	gH	1	MET
9	gH	2	GLU
9	gH	3	MET
9	gH	34	LEU
9	gH	38	GLN
9	gH	47	ILE
9	gH	50	GLU
9	gH	51	LYS
9	gH	52	LEU
9	gH	56	SER
9	gH	61	ILE
9	gH	66	MET
9	gH	78	GLU
9	gH	82	VAL
9	gH	87	LEU
9	gH	93	ASN
9	gH	97	LEU
9	gH	110	ARG
9	gH	123	ARG
9	gH	138	VAL
9	gH	152	LEU
9	gH	165	GLU
9	gH	180	LEU
9	gH	184	GLU
9	gH	199	THR
9	gH	200	ILE
9	gH	219	LYS
9	gH	221	LEU
9	gH	227	ARG
9	gH	236	ILE
9	gH	238	MET
9	gH	242	THR

Continued on next page...

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Mol	Chain	Res	Type
9	gH	262	VAL
9	gH	270	ASN
9	gH	293	ASN
9	gH	336	LEU
9	gH	341	VAL
9	gH	365	ASP
9	gH	373	ARG
9	gH	375	LEU
9	gH	386	GLU
9	gH	411	ARG
9	gH	429	ARG
9	gH	433	LYS
9	gH	482	VAL
9	gH	517	ASP
9	gH	522	VAL
9	gH	525	ASN
9	gH	528	ASN
9	gH	542	VAL
9	gH	550	TRP
9	gH	553	LYS
10	gd	31	THR
10	gd	46	HIS
10	gd	50	LYS
11	h1	1	MET
11	h1	6	VAL
11	h1	19	ASN
11	h1	23	VAL
11	h1	24	GLU
11	h1	25	ILE
11	h1	30	GLN
11	h1	37	LYS
11	h1	45	ILE
11	h1	48	LYS
11	h1	49	ILE
11	h1	53	PHE
11	h1	54	MET
11	h1	56	ARG
11	h1	57	LYS
11	h1	58	ILE
11	h1	72	THR
11	h1	112	ILE
11	h1	113	VAL

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Mol	Chain	Res	Type
11	h1	115	GLN
11	h1	121	LYS
11	h1	122	THR
11	h1	127	ILE
11	h1	135	THR
11	h1	137	VAL
11	h1	141	GLN
11	h1	142	LEU
11	h1	150	ILE
11	h1	152	THR
11	h1	156	THR
11	h2	14	ASP
11	h2	19	ASN
11	h2	23	VAL
11	h2	31	ASN
11	h2	37	LYS
11	h2	45	ILE
11	h2	48	LYS
11	h2	49	ILE
11	h2	51	VAL
11	h2	53	PHE
11	h2	54	MET
11	h2	56	ARG
11	h2	57	LYS
11	h2	58	ILE
11	h2	60	VAL
11	h2	64	ARG
11	h2	72	THR
11	h2	112	ILE
11	h2	113	VAL
11	h2	121	LYS
11	h2	122	THR
11	h2	127	ILE
11	h2	128	GLU
11	h2	135	THR
11	h2	136	ASN
11	h2	137	VAL
11	h2	140	LEU
11	h2	141	GLN
11	h2	142	LEU
11	h2	150	ILE
11	h2	156	THR

Continued on next page...

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Mol	Chain	Res	Type
11	hI	23	VAL
11	hI	25	ILE
11	hI	30	GLN
11	hI	31	ASN
11	hI	37	LYS
11	hI	41	LEU
11	hI	45	ILE
11	hI	48	LYS
11	hI	49	ILE
11	hI	56	ARG
11	hI	57	LYS
11	hI	58	ILE
11	hI	60	VAL
11	hI	72	THR
11	hI	76	ASP
11	hI	77	GLU
11	hI	98	GLU
11	hI	99	ILE
11	hI	112	ILE
11	hI	113	VAL
11	hI	127	ILE
11	hI	128	GLU
11	hI	135	THR
11	hI	137	VAL
11	hI	152	THR
11	hJ	7	THR
11	hJ	17	ARG
11	hJ	19	ASN
11	hJ	23	VAL
11	hJ	25	ILE
11	hJ	31	ASN
11	hJ	37	LYS
11	hJ	41	LEU
11	hJ	45	ILE
11	hJ	48	LYS
11	hJ	49	ILE
11	hJ	56	ARG
11	hJ	57	LYS
11	hJ	58	ILE
11	hJ	72	THR
11	hJ	95	GLN
11	hJ	97	ASN

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Mol	Chain	Res	Type
11	hJ	98	GLU
11	hJ	100	THR
11	hJ	112	ILE
11	hJ	113	VAL
11	hJ	121	LYS
11	hJ	122	THR
11	hJ	127	ILE
11	hJ	135	THR
11	hJ	137	VAL
11	hJ	149	GLU
11	hJ	150	ILE
11	hJ	152	THR
11	hJ	154	GLU
11	hK	14	ASP
11	hK	23	VAL
11	hK	24	GLU
11	hK	25	ILE
11	hK	30	GLN
11	hK	31	ASN
11	hK	37	LYS
11	hK	41	LEU
11	hK	45	ILE
11	hK	48	LYS
11	hK	49	ILE
11	hK	56	ARG
11	hK	57	LYS
11	hK	58	ILE
11	hK	77	GLU
11	hK	99	ILE
11	hK	112	ILE
11	hK	113	VAL
11	hK	115	GLN
11	hK	127	ILE
11	hK	128	GLU
11	hK	136	ASN
11	hK	137	VAL
11	hK	143	ASP
11	hK	150	ILE
11	hK	160	ASP
11	hK	163	GLU
11	hL	19	ASN
11	hL	23	VAL

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Mol	Chain	Res	Type
11	hL	31	ASN
11	hL	37	LYS
11	hL	41	LEU
11	hL	45	ILE
11	hL	48	LYS
11	hL	49	ILE
11	hL	56	ARG
11	hL	57	LYS
11	hL	58	ILE
11	hL	72	THR
11	hL	112	ILE
11	hL	113	VAL
11	hL	115	GLN
11	hL	122	THR
11	hL	127	ILE
11	hL	135	THR
11	hL	137	VAL
11	hL	152	THR
11	hL	154	GLU
11	hL	157	LEU
11	hL	159	LEU
11	hM	19	ASN
11	hM	23	VAL
11	hM	25	ILE
11	hM	37	LYS
11	hM	41	LEU
11	hM	45	ILE
11	hM	46	VAL
11	hM	48	LYS
11	hM	49	ILE
11	hM	56	ARG
11	hM	57	LYS
11	hM	58	ILE
11	hM	72	THR
11	hM	76	ASP
11	hM	97	ASN
11	hM	98	GLU
11	hM	100	THR
11	hM	112	ILE
11	hM	113	VAL
11	hM	115	GLN
11	hM	122	THR

Continued on next page...

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Mol	Chain	Res	Type
11	hM	127	ILE
11	hM	135	THR
11	hM	136	ASN
11	hM	137	VAL
11	hM	143	ASP
11	hM	150	ILE
11	hX	3	VAL
11	hX	6	VAL
11	hX	17	ARG
11	hX	19	ASN
11	hX	23	VAL
11	hX	31	ASN
11	hX	37	LYS
11	hX	41	LEU
11	hX	45	ILE
11	hX	47	GLU
11	hX	48	LYS
11	hX	49	ILE
11	hX	56	ARG
11	hX	57	LYS
11	hX	58	ILE
11	hX	100	THR
11	hX	112	ILE
11	hX	113	VAL
11	hX	115	GLN
11	hX	121	LYS
11	hX	122	THR
11	hX	127	ILE
11	hX	135	THR
11	hX	137	VAL
11	hX	149	GLU
11	hX	150	ILE
11	hX	152	THR
11	hX	154	GLU
11	he	3	VAL
11	he	17	ARG
11	he	23	VAL
11	he	30	GLN
11	he	31	ASN
11	he	37	LYS
11	he	41	LEU
11	he	45	ILE

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Mol	Chain	Res	Type
11	he	48	LYS
11	he	49	ILE
11	he	54	MET
11	he	57	LYS
11	he	58	ILE
11	he	64	ARG
11	he	95	GLN
11	he	98	GLU
11	he	112	ILE
11	he	113	VAL
11	he	127	ILE
11	he	137	VAL
11	he	143	ASP
11	he	150	ILE
11	hf	17	ARG
11	hf	23	VAL
11	hf	24	GLU
11	hf	31	ASN
11	hf	37	LYS
11	hf	45	ILE
11	hf	48	LYS
11	hf	49	ILE
11	hf	51	VAL
11	hf	53	PHE
11	hf	54	MET
11	hf	56	ARG
11	hf	57	LYS
11	hf	58	ILE
11	hf	64	ARG
11	hf	72	THR
11	hf	95	GLN
11	hf	112	ILE
11	hf	113	VAL
11	hf	127	ILE
11	hf	137	VAL
11	hf	149	GLU
11	hf	150	ILE
11	hf	154	GLU
11	hg	17	ARG
11	hg	19	ASN
11	hg	23	VAL
11	hg	30	GLN

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Mol	Chain	Res	Type
11	hg	31	ASN
11	hg	37	LYS
11	hg	41	LEU
11	hg	45	ILE
11	hg	48	LYS
11	hg	54	MET
11	hg	57	LYS
11	hg	58	ILE
11	hg	60	VAL
11	hg	63	ASP
11	hg	64	ARG
11	hg	82	ARG
11	hg	112	ILE
11	hg	113	VAL
11	hg	121	LYS
11	hg	127	ILE
11	hg	137	VAL
11	hg	141	GLN
11	hg	150	ILE
11	hg	156	THR
11	hh	17	ARG
11	hh	23	VAL
11	hh	24	GLU
11	hh	31	ASN
11	hh	37	LYS
11	hh	41	LEU
11	hh	45	ILE
11	hh	48	LYS
11	hh	49	ILE
11	hh	51	VAL
11	hh	56	ARG
11	hh	57	LYS
11	hh	58	ILE
11	hh	72	THR
11	hh	95	GLN
11	hh	112	ILE
11	hh	113	VAL
11	hh	127	ILE
11	hh	137	VAL
11	hh	142	LEU
11	hh	149	GLU
11	hh	150	ILE

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Mol	Chain	Res	Type
11	hh	154	GLU
11	hi	17	ARG
11	hi	19	ASN
11	hi	23	VAL
11	hi	30	GLN
11	hi	31	ASN
11	hi	37	LYS
11	hi	41	LEU
11	hi	45	ILE
11	hi	48	LYS
11	hi	49	ILE
11	hi	53	PHE
11	hi	54	MET
11	hi	57	LYS
11	hi	58	ILE
11	hi	63	ASP
11	hi	64	ARG
11	hi	98	GLU
11	hi	112	ILE
11	hi	113	VAL
11	hi	127	ILE
11	hi	128	GLU
11	hi	137	VAL
11	hi	141	GLN
11	hi	143	ASP
11	hi	150	ILE
11	hj	3	VAL
11	hj	6	VAL
11	hj	14	ASP
11	hj	19	ASN
11	hj	23	VAL
11	hj	25	ILE
11	hj	30	GLN
11	hj	37	LYS
11	hj	41	LEU
11	hj	45	ILE
11	hj	48	LYS
11	hj	49	ILE
11	hj	56	ARG
11	hj	57	LYS
11	hj	58	ILE
11	hj	60	VAL

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Mol	Chain	Res	Type
11	hj	72	THR
11	hj	95	GLN
11	hj	112	ILE
11	hj	113	VAL
11	hj	121	LYS
11	hj	124	THR
11	hj	127	ILE
11	hj	128	GLU
11	hj	135	THR
11	hj	137	VAL
11	hj	141	GLN
11	hj	150	ILE
11	hk	5	ASP
11	hk	14	ASP
11	hk	17	ARG
11	hk	19	ASN
11	hk	23	VAL
11	hk	37	LYS
11	hk	45	ILE
11	hk	48	LYS
11	hk	54	MET
11	hk	56	ARG
11	hk	57	LYS
11	hk	58	ILE
11	hk	72	THR
11	hk	76	ASP
11	hk	113	VAL
11	hk	127	ILE
11	hk	128	GLU
11	hk	137	VAL
11	hk	150	ILE
11	hk	152	THR
11	hk	157	LEU
11	hk	159	LEU
11	hl	6	VAL
11	hl	17	ARG
11	hl	19	ASN
11	hl	23	VAL
11	hl	31	ASN
11	hl	37	LYS
11	hl	45	ILE
11	hl	48	LYS

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Mol	Chain	Res	Type
11	hl	49	ILE
11	hl	56	ARG
11	hl	57	LYS
11	hl	58	ILE
11	hl	60	VAL
11	hl	95	GLN
11	hl	112	ILE
11	hl	113	VAL
11	hl	121	LYS
11	hl	124	THR
11	hl	127	ILE
11	hl	137	VAL
11	hl	150	ILE
11	hl	163	GLU
11	hm	17	ARG
11	hm	19	ASN
11	hm	23	VAL
11	hm	25	ILE
11	hm	45	ILE
11	hm	49	ILE
11	hm	57	LYS
11	hm	58	ILE
11	hm	72	THR
11	hm	76	ASP
11	hm	100	THR
11	hm	112	ILE
11	hm	113	VAL
11	hm	121	LYS
11	hm	124	THR
11	hm	127	ILE
11	hm	137	VAL
11	hm	150	ILE
11	hm	152	THR
11	hm	154	GLU
11	hn	3	VAL
11	hn	19	ASN
11	hn	23	VAL
11	hn	25	ILE
11	hn	37	LYS
11	hn	45	ILE
11	hn	48	LYS
11	hn	49	ILE

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Mol	Chain	Res	Type
11	hn	56	ARG
11	hn	58	ILE
11	hn	60	VAL
11	hn	72	THR
11	hn	112	ILE
11	hn	113	VAL
11	hn	121	LYS
11	hn	122	THR
11	hn	127	ILE
11	hn	135	THR
11	hn	137	VAL
11	hn	141	GLN
11	hn	150	ILE
11	hn	163	GLU
11	ho	1	MET
11	ho	6	VAL
11	ho	7	THR
11	ho	14	ASP
11	ho	17	ARG
11	ho	19	ASN
11	ho	23	VAL
11	ho	31	ASN
11	ho	37	LYS
11	ho	45	ILE
11	ho	49	ILE
11	ho	51	VAL
11	ho	56	ARG
11	ho	57	LYS
11	ho	58	ILE
11	ho	60	VAL
11	ho	63	ASP
11	ho	64	ARG
11	ho	72	THR
11	ho	95	GLN
11	ho	112	ILE
11	ho	113	VAL
11	ho	115	GLN
11	ho	127	ILE
11	ho	128	GLU
11	ho	136	ASN
11	ho	137	VAL
11	ho	141	GLN

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Mol	Chain	Res	Type
11	ho	143	ASP
11	ho	150	ILE
11	ho	154	GLU
11	hp	17	ARG
11	hp	23	VAL
11	hp	24	GLU
11	hp	30	GLN
11	hp	37	LYS
11	hp	45	ILE
11	hp	53	PHE
11	hp	56	ARG
11	hp	57	LYS
11	hp	58	ILE
11	hp	63	ASP
11	hp	64	ARG
11	hp	100	THR
11	hp	112	ILE
11	hp	113	VAL
11	hp	121	LYS
11	hp	122	THR
11	hp	127	ILE
11	hp	137	VAL
11	hp	141	GLN
11	hp	146	SER
11	hp	149	GLU
11	hp	150	ILE
11	hq	14	ASP
11	hq	19	ASN
11	hq	23	VAL
11	hq	24	GLU
11	hq	25	ILE
11	hq	31	ASN
11	hq	37	LYS
11	hq	41	LEU
11	hq	45	ILE
11	hq	49	ILE
11	hq	51	VAL
11	hq	57	LYS
11	hq	58	ILE
11	hq	60	VAL
11	hq	63	ASP
11	hq	72	THR

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Mol	Chain	Res	Type
11	hq	77	GLU
11	hq	91	ILE
11	hq	112	ILE
11	hq	113	VAL
11	hq	121	LYS
11	hq	127	ILE
11	hq	136	ASN
11	hq	137	VAL
11	hq	141	GLN
11	hq	149	GLU
11	hr	3	VAL
11	hr	6	VAL
11	hr	14	ASP
11	hr	17	ARG
11	hr	19	ASN
11	hr	23	VAL
11	hr	24	GLU
11	hr	37	LYS
11	hr	45	ILE
11	hr	48	LYS
11	hr	56	ARG
11	hr	57	LYS
11	hr	58	ILE
11	hr	60	VAL
11	hr	63	ASP
11	hr	64	ARG
11	hr	95	GLN
11	hr	100	THR
11	hr	112	ILE
11	hr	113	VAL
11	hr	121	LYS
11	hr	122	THR
11	hr	127	ILE
11	hr	136	ASN
11	hr	137	VAL
11	hr	141	GLN
11	hr	150	ILE
11	hr	154	GLU
11	hs	1	MET
11	hs	14	ASP
11	hs	19	ASN
11	hs	23	VAL

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Mol	Chain	Res	Type
11	hs	24	GLU
11	hs	25	ILE
11	hs	37	LYS
11	hs	45	ILE
11	hs	49	ILE
11	hs	56	ARG
11	hs	57	LYS
11	hs	58	ILE
11	hs	64	ARG
11	hs	72	THR
11	hs	112	ILE
11	hs	113	VAL
11	hs	127	ILE
11	hs	128	GLU
11	hs	137	VAL
11	hs	141	GLN
11	hs	149	GLU
11	hs	150	ILE
11	hs	163	GLU
11	ht	17	ARG
11	ht	23	VAL
11	ht	24	GLU
11	ht	37	LYS
11	ht	41	LEU
11	ht	45	ILE
11	ht	48	LYS
11	ht	51	VAL
11	ht	56	ARG
11	ht	57	LYS
11	ht	58	ILE
11	ht	60	VAL
11	ht	72	THR
11	ht	112	ILE
11	ht	113	VAL
11	ht	122	THR
11	ht	127	ILE
11	ht	137	VAL
11	ht	142	LEU
11	ht	149	GLU
11	ht	154	GLU
11	ht	156	THR
11	hu	17	ARG

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Mol	Chain	Res	Type
11	hu	19	ASN
11	hu	23	VAL
11	hu	25	ILE
11	hu	30	GLN
11	hu	41	LEU
11	hu	45	ILE
11	hu	49	ILE
11	hu	54	MET
11	hu	56	ARG
11	hu	57	LYS
11	hu	58	ILE
11	hu	72	THR
11	hu	91	ILE
11	hu	100	THR
11	hu	112	ILE
11	hu	113	VAL
11	hu	124	THR
11	hu	127	ILE
11	hu	137	VAL
11	hu	141	GLN
11	hu	150	ILE
11	hu	152	THR
11	hu	154	GLU
11	hv	3	VAL
11	hv	14	ASP
11	hv	17	ARG
11	hv	19	ASN
11	hv	23	VAL
11	hv	37	LYS
11	hv	41	LEU
11	hv	45	ILE
11	hv	48	LYS
11	hv	49	ILE
11	hv	53	PHE
11	hv	56	ARG
11	hv	57	LYS
11	hv	58	ILE
11	hv	60	VAL
11	hv	63	ASP
11	hv	64	ARG
11	hv	72	THR
11	hv	100	THR

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Mol	Chain	Res	Type
11	hv	110	SER
11	hv	112	ILE
11	hv	113	VAL
11	hv	121	LYS
11	hv	127	ILE
11	hv	137	VAL
11	hv	141	GLN
11	hv	149	GLU
11	hv	150	ILE
11	hv	159	LEU
11	hw	6	VAL
11	hw	7	THR
11	hw	17	ARG
11	hw	19	ASN
11	hw	23	VAL
11	hw	24	GLU
11	hw	25	ILE
11	hw	37	LYS
11	hw	45	ILE
11	hw	48	LYS
11	hw	49	ILE
11	hw	51	VAL
11	hw	53	PHE
11	hw	54	MET
11	hw	56	ARG
11	hw	57	LYS
11	hw	58	ILE
11	hw	63	ASP
11	hw	72	THR
11	hw	77	GLU
11	hw	112	ILE
11	hw	127	ILE
11	hw	128	GLU
11	hw	135	THR
11	hw	136	ASN
11	hw	137	VAL
11	hw	141	GLN
11	hw	142	LEU
11	hw	149	GLU
11	hw	150	ILE
11	hw	151	GLN
11	hw	156	THR

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Mol	Chain	Res	Type
11	hx	14	ASP
11	hx	19	ASN
11	hx	23	VAL
11	hx	31	ASN
11	hx	37	LYS
11	hx	45	ILE
11	hx	49	ILE
11	hx	51	VAL
11	hx	53	PHE
11	hx	54	MET
11	hx	56	ARG
11	hx	57	LYS
11	hx	58	ILE
11	hx	63	ASP
11	hx	72	THR
11	hx	112	ILE
11	hx	113	VAL
11	hx	115	GLN
11	hx	122	THR
11	hx	127	ILE
11	hx	128	GLU
11	hx	137	VAL
11	hx	141	GLN
11	hx	142	LEU
11	hx	149	GLU
11	hx	150	ILE
11	hx	156	THR
11	hy	1	MET
11	hy	6	VAL
11	hy	19	ASN
11	hy	23	VAL
11	hy	24	GLU
11	hy	37	LYS
11	hy	41	LEU
11	hy	45	ILE
11	hy	48	LYS
11	hy	49	ILE
11	hy	53	PHE
11	hy	54	MET
11	hy	56	ARG
11	hy	57	LYS
11	hy	58	ILE

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Mol	Chain	Res	Type
11	hy	72	THR
11	hy	112	ILE
11	hy	113	VAL
11	hy	121	LYS
11	hy	127	ILE
11	hy	135	THR
11	hy	137	VAL
11	hy	141	GLN
11	hy	142	LEU
11	hy	146	SER
11	hy	150	ILE
11	hy	154	GLU
11	hy	156	THR
11	hz	14	ASP
11	hz	19	ASN
11	hz	23	VAL
11	hz	31	ASN
11	hz	37	LYS
11	hz	45	ILE
11	hz	48	LYS
11	hz	51	VAL
11	hz	53	PHE
11	hz	54	MET
11	hz	56	ARG
11	hz	57	LYS
11	hz	58	ILE
11	hz	63	ASP
11	hz	72	THR
11	hz	77	GLU
11	hz	112	ILE
11	hz	113	VAL
11	hz	115	GLN
11	hz	122	THR
11	hz	127	ILE
11	hz	128	GLU
11	hz	137	VAL
11	hz	141	GLN
11	hz	142	LEU
11	hz	159	LEU
11	hz	163	GLU
12	iC	15	LYS
12	iC	16	LEU

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Mol	Chain	Res	Type
12	iC	18	ASP
12	iC	35	ILE
12	iC	36	THR
12	iC	44	LEU
12	iC	52	LEU
12	iC	59	ASN
12	iC	68	GLU
12	iC	71	GLN
12	iC	78	ASN
12	iC	84	LYS
12	iC	87	ILE
12	iC	97	VAL
12	iC	103	ASN
12	iC	105	ILE
12	iC	107	ILE
12	iC	109	LEU
12	iC	112	ILE
12	iC	117	ASN
12	iC	150	ILE
12	iC	157	VAL
12	iC	174	ARG
12	iC	184	LYS
12	iC	201	ASP
12	iC	203	MET
12	iC	219	ILE
12	iC	230	LEU
12	iC	237	LEU
12	iC	248	MET
12	iC	270	LYS
12	iC	272	GLU
12	iC	273	ASN
12	iC	286	MET
12	iC	289	ARG
12	iC	293	GLU
12	iC	309	LYS
12	iC	318	LEU
12	iC	322	VAL
12	iC	325	ILE
12	iC	332	GLN
12	iC	334	LYS
12	iC	336	GLU
12	iC	346	LEU

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Mol	Chain	Res	Type
12	iC	349	ASN
12	iC	357	MET
12	iC	367	ILE
12	iC	370	VAL
12	iD	15	LYS
12	iD	18	ASP
12	iD	31	LEU
12	iD	35	ILE
12	iD	36	THR
12	iD	44	LEU
12	iD	47	ARG
12	iD	52	LEU
12	iD	68	GLU
12	iD	78	ASN
12	iD	84	LYS
12	iD	87	ILE
12	iD	97	VAL
12	iD	103	ASN
12	iD	104	ILE
12	iD	105	ILE
12	iD	107	ILE
12	iD	115	ILE
12	iD	116	GLU
12	iD	150	ILE
12	iD	174	ARG
12	iD	184	LYS
12	iD	201	ASP
12	iD	203	MET
12	iD	219	ILE
12	iD	237	LEU
12	iD	248	MET
12	iD	270	LYS
12	iD	289	ARG
12	iD	293	GLU
12	iD	309	LYS
12	iD	313	ILE
12	iD	322	VAL
12	iD	334	LYS
12	iD	336	GLU
12	iD	342	VAL
12	iD	346	LEU
12	iD	349	ASN

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Mol	Chain	Res	Type
12	iD	367	ILE
12	iD	370	VAL
12	iF	18	ASP
12	iF	31	LEU
12	iF	35	ILE
12	iF	36	THR
12	iF	41	ARG
12	iF	44	LEU
12	iF	52	LEU
12	iF	59	ASN
12	iF	68	GLU
12	iF	70	ILE
12	iF	78	ASN
12	iF	84	LYS
12	iF	87	ILE
12	iF	95	VAL
12	iF	96	SER
12	iF	97	VAL
12	iF	103	ASN
12	iF	104	ILE
12	iF	105	ILE
12	iF	107	ILE
12	iF	109	LEU
12	iF	112	ILE
12	iF	150	ILE
12	iF	174	ARG
12	iF	184	LYS
12	iF	198	MET
12	iF	201	ASP
12	iF	203	MET
12	iF	205	ASN
12	iF	219	ILE
12	iF	230	LEU
12	iF	236	TRP
12	iF	237	LEU
12	iF	277	VAL
12	iF	286	MET
12	iF	289	ARG
12	iF	293	GLU
12	iF	309	LYS
12	iF	313	ILE
12	iF	322	VAL

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Mol	Chain	Res	Type
12	iF	334	LYS
12	iF	336	GLU
12	iF	346	LEU
12	iF	367	ILE
13	ja	572	MET
13	ja	573	THR
13	ja	589	VAL
13	jb	573	THR
13	jb	589	VAL
13	jc	573	THR
13	jc	589	VAL
14	k3	15	THR
14	k3	26	THR
14	k3	28	ILE
14	k3	31	ASN
14	k3	37	LYS
14	k3	45	LEU
14	k3	78	ASP
14	k3	86	TRP
14	k3	100	LYS
14	k3	107	ASP
14	k3	110	VAL
14	k3	119	LYS
14	k3	129	ASN
14	k3	136	LYS
14	k3	139	LYS
14	k3	141	ARG
14	k3	143	TYR
14	k3	192	TYR
14	k4	16	VAL
14	k4	26	THR
14	k4	27	ASP
14	k4	28	ILE
14	k4	31	ASN
14	k4	37	LYS
14	k4	44	ARG
14	k4	45	LEU
14	k4	46	ARG
14	k4	47	THR
14	k4	50	ILE
14	k4	74	LEU
14	k4	78	ASP

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Mol	Chain	Res	Type
14	k4	86	TRP
14	k4	100	LYS
14	k4	107	ASP
14	k4	110	VAL
14	k4	129	ASN
14	k4	132	VAL
14	k4	136	LYS
14	k4	139	LYS
14	k4	141	ARG
14	k4	143	TYR
14	k4	147	GLU
14	k4	150	LEU
14	k4	155	THR
14	k4	170	LYS
14	k4	192	TYR
14	k7	31	ASN
14	k7	34	ASP
14	k7	37	LYS
14	k7	45	LEU
14	k7	78	ASP
14	k7	86	TRP
14	k7	100	LYS
14	k7	107	ASP
14	k7	110	VAL
14	k7	123	LEU
14	k7	129	ASN
14	k7	136	LYS
14	k7	138	ASP
14	k7	139	LYS
14	k7	141	ARG
14	k7	147	GLU
14	k7	150	LEU
14	k7	179	SER
14	k8	16	VAL
14	k8	26	THR
14	k8	27	ASP
14	k8	28	ILE
14	k8	31	ASN
14	k8	37	LYS
14	k8	44	ARG
14	k8	45	LEU
14	k8	46	ARG

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Mol	Chain	Res	Type
14	k8	47	THR
14	k8	74	LEU
14	k8	78	ASP
14	k8	86	TRP
14	k8	100	LYS
14	k8	107	ASP
14	k8	110	VAL
14	k8	129	ASN
14	k8	132	VAL
14	k8	136	LYS
14	k8	139	LYS
14	k8	141	ARG
14	k8	143	TYR
14	k8	147	GLU
14	k8	150	LEU
14	k8	155	THR
14	k8	168	GLN
14	k8	192	TYR
14	kV	16	VAL
14	kV	26	THR
14	kV	27	ASP
14	kV	28	ILE
14	kV	31	ASN
14	kV	37	LYS
14	kV	45	LEU
14	kV	46	ARG
14	kV	47	THR
14	kV	74	LEU
14	kV	78	ASP
14	kV	79	ASN
14	kV	100	LYS
14	kV	107	ASP
14	kV	110	VAL
14	kV	115	GLU
14	kV	116	ASN
14	kV	119	LYS
14	kV	129	ASN
14	kV	132	VAL
14	kV	136	LYS
14	kV	139	LYS
14	kV	141	ARG
14	kV	143	TYR

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Mol	Chain	Res	Type
14	kV	147	GLU
14	kV	150	LEU
14	kV	155	THR
14	kV	161	LEU
14	kV	192	TYR
14	lV	28	ILE
14	lV	31	ASN
14	lV	37	LYS
14	lV	45	LEU
14	lV	74	LEU
14	lV	86	TRP
14	lV	100	LYS
14	lV	107	ASP
14	lV	110	VAL
14	lV	119	LYS
14	lV	129	ASN
14	lV	132	VAL
14	lV	138	ASP
14	lV	139	LYS
14	lV	141	ARG
14	lV	147	GLU
14	lV	150	LEU
15	m1	7	LEU
15	m1	14	GLU
15	m1	16	LYS
15	m1	27	LEU
15	m1	61	LEU
15	m1	68	LEU
15	m1	101	ASP
15	m1	103	THR
15	m1	112	VAL
15	m1	115	ASN
15	m1	117	ASP
15	m1	119	ILE
15	m1	121	GLN
15	m1	123	LYS
15	m1	126	LEU
15	m2	4	ILE
15	m2	7	LEU
15	m2	14	GLU
15	m2	16	LYS
15	m2	27	LEU

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Mol	Chain	Res	Type
15	m2	36	LEU
15	m2	61	LEU
15	m2	68	LEU
15	m2	101	ASP
15	m2	103	THR
15	m2	106	VAL
15	m2	115	ASN
15	m2	117	ASP
15	m2	119	ILE
15	m2	121	GLN
15	m2	122	ILE
15	m2	123	LYS
15	m5	7	LEU
15	m5	14	GLU
15	m5	16	LYS
15	m5	27	LEU
15	m5	61	LEU
15	m5	68	LEU
15	m5	101	ASP
15	m5	115	ASN
15	m5	117	ASP
15	m5	119	ILE
15	m5	123	LYS
15	m6	7	LEU
15	m6	14	GLU
15	m6	16	LYS
15	m6	27	LEU
15	m6	68	LEU
15	m6	91	LEU
15	m6	101	ASP
15	m6	114	ASP
15	m6	115	ASN
15	m6	117	ASP
15	m6	119	ILE
15	m6	122	ILE
15	m6	123	LYS
15	mT	7	LEU
15	mT	14	GLU
15	mT	16	LYS
15	mT	27	LEU
15	mT	61	LEU
15	mT	68	LEU

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Mol	Chain	Res	Type
15	mT	94	ASN
15	mT	101	ASP
15	mT	103	THR
15	mT	106	VAL
15	mT	114	ASP
15	mT	115	ASN
15	mT	117	ASP
15	mT	119	ILE
15	mT	121	GLN
15	mT	122	ILE
15	mT	123	LYS
15	nT	7	LEU
15	nT	14	GLU
15	nT	16	LYS
15	nT	25	ARG
15	nT	27	LEU
15	nT	52	GLU
15	nT	61	LEU
15	nT	68	LEU
15	nT	72	THR
15	nT	96	ILE
15	nT	101	ASP
15	nT	115	ASN
15	nT	117	ASP
15	nT	119	ILE
15	nT	123	LYS
15	nT	126	LEU
16	o0	4	VAL
16	o0	6	GLU
16	o0	7	ILE
16	o0	11	LEU
16	o0	17	GLU
16	o0	29	VAL
16	o0	31	THR
16	o0	35	THR
16	o0	46	ASN
16	o0	48	THR
16	o0	53	GLN
16	o0	56	ASP
16	o0	57	LEU
16	o0	59	LYS
16	o0	62	LEU

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Mol	Chain	Res	Type
16	o0	65	THR
16	o0	97	ASN
16	o0	99	ILE
16	o0	119	ILE
16	o0	127	ILE
16	o0	150	LEU
16	o0	161	VAL
16	o0	174	LEU
16	o0	177	ILE
16	o0	181	ILE
16	o0	208	THR
16	o0	210	ASP
16	o0	217	GLU
16	o0	249	TYR
16	o0	257	THR
16	o0	271	LYS
16	o0	273	LEU
16	o0	295	VAL
16	o0	301	THR
16	o0	303	LYS
16	o0	305	ASP
16	o0	322	ASP
16	o0	328	ASN
16	o0	343	THR
16	o0	347	THR
16	o0	349	ARG
16	o0	359	LEU
16	o1	5	LYS
16	o1	10	ASP
16	o1	12	ILE
16	o1	26	LYS
16	o1	29	VAL
16	o1	31	THR
16	o1	33	THR
16	o1	46	ASN
16	o1	53	GLN
16	o1	56	ASP
16	o1	59	LYS
16	o1	62	LEU
16	o1	65	THR
16	o1	81	ARG
16	o1	92	LEU

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Mol	Chain	Res	Type
16	o1	96	ARG
16	o1	97	ASN
16	o1	105	LYS
16	o1	111	ILE
16	o1	115	ASN
16	o1	118	THR
16	o1	121	LYS
16	o1	138	THR
16	o1	146	VAL
16	o1	208	THR
16	o1	217	GLU
16	o1	246	ILE
16	o1	251	ASP
16	o1	252	ASP
16	o1	259	ILE
16	o1	265	GLU
16	o1	270	ASN
16	o1	272	THR
16	o1	273	LEU
16	o1	284	VAL
16	o1	286	VAL
16	o1	289	ASN
16	o1	295	VAL
16	o1	301	THR
16	o1	307	LYS
16	o1	310	ILE
16	o1	318	SER
16	o1	322	ASP
16	o1	343	THR
16	o1	346	ILE
16	o1	347	THR
16	o1	349	ARG
16	o1	352	ILE
16	o2	5	LYS
16	o2	10	ASP
16	o2	12	ILE
16	o2	18	LYS
16	o2	26	LYS
16	o2	29	VAL
16	o2	31	THR
16	o2	46	ASN
16	o2	53	GLN

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Mol	Chain	Res	Type
16	o2	56	ASP
16	o2	59	LYS
16	o2	62	LEU
16	o2	65	THR
16	o2	92	LEU
16	o2	96	ARG
16	o2	105	LYS
16	o2	111	ILE
16	o2	118	THR
16	o2	121	LYS
16	o2	138	THR
16	o2	146	VAL
16	o2	208	THR
16	o2	217	GLU
16	o2	246	ILE
16	o2	251	ASP
16	o2	259	ILE
16	o2	265	GLU
16	o2	272	THR
16	o2	273	LEU
16	o2	284	VAL
16	o2	295	VAL
16	o2	301	THR
16	o2	307	LYS
16	o2	310	ILE
16	o2	343	THR
16	o2	345	GLU
16	o2	347	THR
16	o2	349	ARG
16	o2	352	ILE
16	o6	5	LYS
16	o6	10	ASP
16	o6	12	ILE
16	o6	26	LYS
16	o6	29	VAL
16	o6	31	THR
16	o6	46	ASN
16	o6	53	GLN
16	o6	56	ASP
16	o6	59	LYS
16	o6	62	LEU
16	o6	65	THR

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Mol	Chain	Res	Type
16	o6	91	ILE
16	o6	92	LEU
16	o6	96	ARG
16	o6	97	ASN
16	o6	105	LYS
16	o6	111	ILE
16	o6	118	THR
16	o6	121	LYS
16	o6	126	ASN
16	o6	146	VAL
16	o6	208	THR
16	o6	217	GLU
16	o6	241	GLN
16	o6	246	ILE
16	o6	251	ASP
16	o6	259	ILE
16	o6	265	GLU
16	o6	270	ASN
16	o6	271	LYS
16	o6	272	THR
16	o6	273	LEU
16	o6	284	VAL
16	o6	288	SER
16	o6	295	VAL
16	o6	301	THR
16	o6	307	LYS
16	o6	310	ILE
16	o6	322	ASP
16	o6	337	ASN
16	o6	343	THR
16	o6	346	ILE
16	o6	347	THR
16	o6	349	ARG
16	o6	352	ILE
16	o6	353	THR
16	o6	354	LEU
16	pA	4	VAL
16	pA	5	LYS
16	pA	6	GLU
16	pA	7	ILE
16	pA	11	LEU
16	pA	17	GLU

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Mol	Chain	Res	Type
16	pA	29	VAL
16	pA	46	ASN
16	pA	56	ASP
16	pA	59	LYS
16	pA	62	LEU
16	pA	65	THR
16	pA	99	ILE
16	pA	104	SER
16	pA	119	ILE
16	pA	127	ILE
16	pA	159	THR
16	pA	161	VAL
16	pA	177	ILE
16	pA	181	ILE
16	pA	208	THR
16	pA	217	GLU
16	pA	241	GLN
16	pA	246	ILE
16	pA	249	TYR
16	pA	257	THR
16	pA	271	LYS
16	pA	273	LEU
16	pA	287	VAL
16	pA	295	VAL
16	pA	301	THR
16	pA	305	ASP
16	pA	318	SER
16	pA	323	LYS
16	pA	328	ASN
16	pA	343	THR
16	pA	349	ARG
16	pB	4	VAL
16	pB	5	LYS
16	pB	6	GLU
16	pB	7	ILE
16	pB	11	LEU
16	pB	12	ILE
16	pB	17	GLU
16	pB	25	THR
16	pB	29	VAL
16	pB	46	ASN
16	pB	48	THR

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Mol	Chain	Res	Type
16	pB	56	ASP
16	pB	59	LYS
16	pB	62	LEU
16	pB	65	THR
16	pB	97	ASN
16	pB	99	ILE
16	pB	106	LEU
16	pB	127	ILE
16	pB	137	ASP
16	pB	138	THR
16	pB	150	LEU
16	pB	161	VAL
16	pB	174	LEU
16	pB	177	ILE
16	pB	181	ILE
16	pB	208	THR
16	pB	210	ASP
16	pB	217	GLU
16	pB	246	ILE
16	pB	249	TYR
16	pB	257	THR
16	pB	271	LYS
16	pB	273	LEU
16	pB	295	VAL
16	pB	301	THR
16	pB	303	LYS
16	pB	305	ASP
16	pB	323	LYS
16	pB	343	THR
16	pB	347	THR
16	pB	349	ARG
17	q3	4	LEU
17	q3	8	ASN
17	q3	12	ILE
17	q3	20	ASN
17	q3	89	ILE
17	q3	96	THR
17	q3	105	THR
17	q3	110	LEU
17	q3	112	ASP
17	q3	119	ASN
17	q3	128	VAL

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Mol	Chain	Res	Type
17	q3	130	MET
17	q3	139	THR
17	q3	148	ILE
17	q3	158	LEU
17	q3	180	SER
17	q3	183	ASP
17	q3	185	VAL
17	q3	188	LEU
17	q3	195	VAL
17	q3	196	GLU
17	q3	199	ILE
17	q3	201	VAL
17	q3	214	VAL
17	q3	215	MET
17	q3	216	PHE
17	q3	221	ILE
17	q3	223	VAL
17	q3	231	ASP
17	q3	241	VAL
17	q3	248	MET
17	q3	249	GLN
17	q3	254	ASP
17	q3	257	ARG
17	q3	262	LEU
17	q4	4	LEU
17	q4	12	ILE
17	q4	25	VAL
17	q4	89	ILE
17	q4	96	THR
17	q4	99	SER
17	q4	105	THR
17	q4	110	LEU
17	q4	111	ILE
17	q4	119	ASN
17	q4	127	SER
17	q4	128	VAL
17	q4	130	MET
17	q4	139	THR
17	q4	148	ILE
17	q4	158	LEU
17	q4	172	ARG
17	q4	185	VAL

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Mol	Chain	Res	Type
17	q4	188	LEU
17	q4	195	VAL
17	q4	196	GLU
17	q4	199	ILE
17	q4	201	VAL
17	q4	214	VAL
17	q4	215	MET
17	q4	216	PHE
17	q4	217	THR
17	q4	221	ILE
17	q4	222	SER
17	q4	223	VAL
17	q4	231	ASP
17	q4	236	ILE
17	q4	241	VAL
17	q4	242	THR
17	q4	249	GLN
17	q4	254	ASP
17	q4	257	ARG
17	q4	262	LEU
17	q5	9	ASN
17	q5	12	ILE
17	q5	18	ARG
17	q5	24	CYS
17	q5	25	VAL
17	q5	29	THR
17	q5	37	LEU
17	q5	96	THR
17	q5	97	VAL
17	q5	110	LEU
17	q5	119	ASN
17	q5	125	ILE
17	q5	128	VAL
17	q5	130	MET
17	q5	132	GLU
17	q5	139	THR
17	q5	145	SER
17	q5	147	ASN
17	q5	148	ILE
17	q5	154	GLU
17	q5	158	LEU
17	q5	164	MET

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Mol	Chain	Res	Type
17	q5	167	GLU
17	q5	176	ASP
17	q5	185	VAL
17	q5	188	LEU
17	q5	194	ASP
17	q5	195	VAL
17	q5	199	ILE
17	q5	201	VAL
17	q5	202	ASN
17	q5	212	THR
17	q5	214	VAL
17	q5	217	THR
17	q5	219	HIS
17	q5	221	ILE
17	q5	222	SER
17	q5	223	VAL
17	q5	224	SER
17	q5	227	GLU
17	q5	236	ILE
17	q5	241	VAL
17	q5	254	ASP
17	q7	9	ASN
17	q7	12	ILE
17	q7	18	ARG
17	q7	21	MET
17	q7	24	CYS
17	q7	25	VAL
17	q7	29	THR
17	q7	32	THR
17	q7	37	LEU
17	q7	92	MET
17	q7	96	THR
17	q7	97	VAL
17	q7	101	LEU
17	q7	110	LEU
17	q7	119	ASN
17	q7	125	ILE
17	q7	130	MET
17	q7	132	GLU
17	q7	148	ILE
17	q7	154	GLU
17	q7	158	LEU

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Mol	Chain	Res	Type
17	q7	176	ASP
17	q7	188	LEU
17	q7	195	VAL
17	q7	198	ASP
17	q7	199	ILE
17	q7	201	VAL
17	q7	202	ASN
17	q7	207	ASN
17	q7	209	LEU
17	q7	212	THR
17	q7	214	VAL
17	q7	219	HIS
17	q7	221	ILE
17	q7	222	SER
17	q7	223	VAL
17	q7	224	SER
17	q7	236	ILE
17	q7	241	VAL
17	q7	242	THR
17	q7	255	ARG
17	q7	259	LEU
17	q8	4	LEU
17	q8	8	ASN
17	q8	12	ILE
17	q8	20	ASN
17	q8	25	VAL
17	q8	89	ILE
17	q8	96	THR
17	q8	105	THR
17	q8	110	LEU
17	q8	119	ASN
17	q8	125	ILE
17	q8	128	VAL
17	q8	130	MET
17	q8	148	ILE
17	q8	158	LEU
17	q8	164	MET
17	q8	180	SER
17	q8	185	VAL
17	q8	188	LEU
17	q8	195	VAL
17	q8	196	GLU

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Mol	Chain	Res	Type
17	q8	199	ILE
17	q8	200	GLN
17	q8	201	VAL
17	q8	214	VAL
17	q8	215	MET
17	q8	216	PHE
17	q8	217	THR
17	q8	221	ILE
17	q8	223	VAL
17	q8	231	ASP
17	q8	241	VAL
17	q8	242	THR
17	q8	249	GLN
17	q8	254	ASP
17	q8	255	ARG
17	q8	257	ARG
17	q8	262	LEU
17	q9	9	ASN
17	q9	12	ILE
17	q9	18	ARG
17	q9	21	MET
17	q9	24	CYS
17	q9	25	VAL
17	q9	29	THR
17	q9	32	THR
17	q9	37	LEU
17	q9	96	THR
17	q9	97	VAL
17	q9	110	LEU
17	q9	119	ASN
17	q9	125	ILE
17	q9	128	VAL
17	q9	130	MET
17	q9	139	THR
17	q9	148	ILE
17	q9	158	LEU
17	q9	161	SER
17	q9	164	MET
17	q9	176	ASP
17	q9	185	VAL
17	q9	188	LEU
17	q9	194	ASP

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Mol	Chain	Res	Type
17	q9	195	VAL
17	q9	199	ILE
17	q9	201	VAL
17	q9	202	ASN
17	q9	212	THR
17	q9	214	VAL
17	q9	219	HIS
17	q9	220	SER
17	q9	221	ILE
17	q9	223	VAL
17	q9	236	ILE
17	q9	240	ASP
17	q9	241	VAL
17	q9	242	THR
17	q9	259	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (709) such sidechains are listed below:

Mol	Chain	Res	Type
1	S0	251	ASN
1	S0	516	ASN
1	S1	127	ASN
1	S1	251	ASN
1	S1	408	HIS
1	S2	4	ASN
1	S2	233	GLN
1	S2	327	GLN
1	S2	363	HIS
1	S2	479	ASN
1	S2	520	ASN
1	S3	24	ASN
1	S3	111	ASN
1	S3	198	GLN
1	S3	272	GLN
1	S3	327	GLN
1	S3	408	HIS
1	S3	454	HIS
1	S4	167	GLN
1	S4	272	GLN
1	S4	408	HIS
1	S4	454	HIS
1	S5	149	GLN

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Mol	Chain	Res	Type
1	S5	166	GLN
1	S5	411	ASN
1	S5	454	HIS
1	S6	4	ASN
1	S7	166	GLN
1	S7	239	ASN
1	S7	417	ASN
1	S8	7	GLN
1	S8	329	ASN
1	SA	45	ASN
1	SA	89	ASN
1	SA	233	GLN
1	SA	237	ASN
1	SA	251	ASN
1	SA	440	GLN
1	SO	45	ASN
1	SO	127	ASN
1	SP	24	ASN
1	SP	126	ASN
1	SP	239	ASN
1	SP	417	ASN
1	SP	495	GLN
1	SQ	45	ASN
1	SQ	233	GLN
1	SQ	237	ASN
1	SQ	251	ASN
1	SQ	327	GLN
1	SQ	440	GLN
1	Sv	233	GLN
1	Sv	251	ASN
1	Sv	290	GLN
1	Sv	329	ASN
1	Sw	24	ASN
1	Sw	45	ASN
1	Sw	72	ASN
1	Sw	111	ASN
1	Sw	149	GLN
1	Sw	175	GLN
1	Sw	462	ASN
1	Sx	45	ASN
1	Sx	201	GLN
1	Sx	441	GLN

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Mol	Chain	Res	Type
1	Sy	3	ASN
1	Sy	24	ASN
1	Sy	188	GLN
1	Sy	239	ASN
1	Sy	294	GLN
1	Sy	327	GLN
1	Sy	417	ASN
1	Sz	3	ASN
1	Sz	7	GLN
1	Sz	24	ASN
1	Sz	111	ASN
1	Sz	408	HIS
1	Sz	516	ASN
2	T1	85	HIS
2	T1	136	ASN
2	T2	227	ASN
2	T3	198	ASN
2	T4	85	HIS
2	T5	29	ASN
2	T5	170	GLN
2	T5	251	ASN
2	T6	4	GLN
2	T6	170	GLN
2	T6	180	ASN
2	T8	198	ASN
2	T9	251	ASN
2	T9	282	GLN
2	TF	120	ASN
2	TG	125	GLN
2	TG	136	ASN
2	TH	36	ASN
2	Td	70	HIS
2	Td	113	ASN
2	Td	227	ASN
2	Te	207	GLN
2	Tf	227	ASN
2	Tf	251	ASN
2	Tg	136	ASN
2	Tg	282	GLN
2	Th	198	ASN
2	Ti	36	ASN
3	UL	149	HIS

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Mol	Chain	Res	Type
3	UL	206	GLN
3	UM	31	ASN
3	UM	164	GLN
3	UM	180	GLN
3	UN	73	ASN
3	UN	206	GLN
3	Up	5	ASN
3	Up	6	ASN
3	Up	73	ASN
3	Uq	73	ASN
3	Uq	149	HIS
3	Ur	149	HIS
3	Us	6	ASN
3	Us	180	GLN
3	Ut	6	ASN
3	Uu	73	ASN
3	Uu	206	GLN
3	VL	73	ASN
3	VM	31	ASN
3	VM	149	HIS
3	Vp	51	ASN
3	Vq	206	GLN
3	Vr	205	ASN
3	Vs	6	ASN
3	Vs	31	ASN
3	Vt	164	GLN
3	Vu	73	ASN
3	Vu	206	GLN
4	WI	127	ASN
4	WI	190	ASN
4	WI	307	ASN
4	WI	388	ASN
4	WI	504	ASN
4	WJ	4	ASN
4	WJ	330	HIS
4	WJ	467	ASN
4	WJ	580	HIS
4	WK	27	ASN
4	WK	90	ASN
4	WK	150	GLN
4	WK	234	GLN
4	WK	351	GLN

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Mol	Chain	Res	Type
4	WK	410	GLN
4	WK	483	GLN
4	Wj	27	ASN
4	Wj	150	GLN
4	Wj	198	ASN
4	Wj	388	ASN
4	Wj	444	ASN
4	Wj	448	ASN
4	Wj	504	ASN
4	Wj	514	HIS
4	Wk	90	ASN
4	Wk	127	ASN
4	Wk	150	GLN
4	Wk	198	ASN
4	Wk	483	GLN
4	Wl	189	ASN
4	Wl	209	ASN
4	Wl	388	ASN
4	Wl	483	GLN
4	Wl	498	ASN
4	Wl	504	ASN
4	Wl	531	ASN
4	Wm	4	ASN
4	Wm	198	ASN
4	Wm	330	HIS
4	Wm	377	HIS
4	Wm	440	GLN
4	Wm	467	ASN
4	Wn	6	ASN
4	Wn	189	ASN
4	Wn	190	ASN
4	Wn	353	HIS
4	Wn	440	GLN
4	Wn	580	HIS
4	Wn	590	GLN
4	Wo	27	ASN
4	Wo	90	ASN
4	Wo	190	ASN
4	Wo	305	ASN
4	Wo	421	ASN
4	Wo	483	GLN
4	XI	27	ASN

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Mol	Chain	Res	Type
4	XI	432	ASN
4	XJ	198	ASN
4	XJ	262	GLN
4	XJ	483	GLN
4	XJ	504	ASN
4	XK	4	ASN
4	XK	29	ASN
4	XK	105	ASN
4	XK	150	GLN
4	XK	189	ASN
4	XK	243	GLN
4	XK	318	GLN
4	XK	353	HIS
4	XK	363	ASN
4	XK	504	ASN
4	XK	590	GLN
4	Xj	87	ASN
4	Xj	189	ASN
4	Xj	198	ASN
4	Xj	382	ASN
4	Xj	388	ASN
4	Xj	432	ASN
4	Xj	444	ASN
4	Xj	448	ASN
4	Xj	514	HIS
4	Xj	556	GLN
4	Xk	150	GLN
4	Xk	190	ASN
4	Xk	330	HIS
4	Xk	377	HIS
4	Xk	504	ASN
4	Xl	198	ASN
4	Xl	531	ASN
4	Xm	189	ASN
4	Xm	198	ASN
4	Xm	502	ASN
4	Xn	6	ASN
4	Xn	127	ASN
4	Xn	150	GLN
4	Xn	198	ASN
4	Xn	353	HIS
4	Xo	90	ASN

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Mol	Chain	Res	Type
4	Xo	190	ASN
4	Xo	353	HIS
4	Xo	377	HIS
4	Xo	410	GLN
4	Xo	444	ASN
4	Xo	483	GLN
5	YC	19	ASN
5	YC	20	GLN
5	YC	48	ASN
5	YC	53	GLN
5	YC	117	GLN
5	YC	213	ASN
5	YC	527	ASN
5	YC	693	GLN
5	YC	784	GLN
5	YC	804	ASN
5	YC	849	GLN
5	YC	901	ASN
5	YC	973	ASN
5	YC	1015	ASN
5	YC	1027	GLN
5	YX	19	ASN
5	YX	20	GLN
5	YX	22	GLN
5	YX	52	ASN
5	YX	139	ASN
5	YX	182	GLN
5	YX	684	ASN
5	YX	688	ASN
5	YX	693	GLN
5	YX	784	GLN
5	YX	849	GLN
5	YX	973	ASN
5	YY	19	ASN
5	YY	20	GLN
5	YY	112	ASN
5	YY	117	GLN
5	YY	171	ASN
5	YY	182	GLN
5	YY	572	ASN
5	YY	688	ASN
5	YY	716	ASN

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Mol	Chain	Res	Type
5	YY	1027	GLN
5	Yc	19	ASN
5	Yc	20	GLN
5	Yc	22	GLN
5	Yc	139	ASN
5	Yc	182	GLN
5	Yc	515	ASN
5	Yc	849	GLN
5	Yc	1018	ASN
5	Yx	19	ASN
5	Yx	20	GLN
5	Yx	22	GLN
5	Yx	52	ASN
5	Yx	182	GLN
5	Yx	784	GLN
5	Yx	849	GLN
5	Yx	1018	ASN
5	Yy	19	ASN
5	Yy	20	GLN
5	Yy	22	GLN
5	Yy	117	GLN
5	Yy	165	ASN
5	Yy	213	ASN
5	Yy	527	ASN
5	Yy	601	ASN
5	Yy	682	GLN
5	Yy	685	ASN
5	Yy	688	ASN
5	Yy	693	GLN
5	Yy	716	ASN
5	Yy	804	ASN
5	Yy	808	GLN
5	Yy	849	GLN
5	Yy	901	ASN
5	Yy	1015	ASN
5	Yy	1027	GLN
6	ZD	201	ASN
6	ZD	271	GLN
6	ZD	324	GLN
6	ZE	120	ASN
6	ZE	271	GLN
6	Zb	26	ASN

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Mol	Chain	Res	Type
6	Zb	205	ASN
6	Zb	314	ASN
6	Zc	35	ASN
6	Zc	324	GLN
6	aE	314	ASN
6	aa	284	HIS
6	ab	314	ASN
6	ab	324	GLN
6	ac	120	ASN
6	ac	329	ASN
7	b0	43	GLN
7	b0	98	ASN
7	b0	211	GLN
7	b0	291	GLN
7	b0	392	HIS
7	b0	486	GLN
7	b3	16	GLN
7	b3	98	ASN
7	b3	144	ASN
7	b3	200	ASN
7	b3	213	ASN
7	b3	483	ASN
7	b3	511	GLN
7	b3	613	ASN
7	b3	621	ASN
7	b4	16	GLN
7	b4	98	ASN
7	b4	213	ASN
7	b4	483	ASN
7	b5	16	GLN
7	b5	76	ASN
7	b5	98	ASN
7	b5	213	ASN
7	b5	329	ASN
7	b5	523	ASN
7	b6	16	GLN
7	b6	213	ASN
7	b6	428	ASN
7	b7	16	GLN
7	b7	98	ASN
7	b7	144	ASN
7	b7	213	ASN

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Mol	Chain	Res	Type
7	b7	274	GLN
7	b7	523	ASN
7	b8	98	ASN
7	b8	211	GLN
7	b8	213	ASN
7	b8	428	ASN
7	b8	523	ASN
7	b8	552	ASN
7	b8	613	ASN
7	b9	16	GLN
7	b9	211	GLN
7	b9	329	ASN
7	b9	612	ASN
7	b9	641	ASN
7	bN	328	GLN
7	bN	371	GLN
7	bN	401	GLN
7	bN	511	GLN
7	bN	563	ASN
7	bO	16	GLN
7	bO	46	ASN
7	bO	144	ASN
7	bO	519	GLN
7	bP	34	GLN
7	bP	328	GLN
7	bP	371	GLN
7	bP	519	GLN
7	bP	563	ASN
7	bP	593	GLN
7	bP	630	GLN
7	bQ	46	ASN
7	bQ	144	ASN
7	bR	328	GLN
7	bR	371	GLN
7	bR	513	GLN
7	bY	46	ASN
7	bY	144	ASN
7	cA	98	ASN
7	cA	630	GLN
7	cB	98	ASN
7	cC	98	ASN
7	cC	274	GLN

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Mol	Chain	Res	Type
7	cC	291	GLN
7	cC	425	ASN
7	cC	519	GLN
7	cD	52	ASN
7	cD	98	ASN
7	cD	390	GLN
7	cD	552	ASN
7	cE	213	ASN
7	cE	577	ASN
7	cE	641	ASN
7	cF	98	ASN
7	cF	511	GLN
7	cF	612	ASN
7	cF	630	GLN
7	cG	98	ASN
7	cG	483	ASN
7	cG	630	GLN
7	cH	274	GLN
7	cH	278	GLN
7	cH	511	GLN
7	cH	641	ASN
7	cI	425	ASN
7	cI	483	ASN
7	cI	519	GLN
7	cI	552	ASN
7	cI	636	ASN
7	cJ	98	ASN
7	cJ	274	GLN
7	cJ	465	ASN
7	cJ	523	ASN
7	cK	98	ASN
7	cK	286	ASN
7	cK	392	HIS
7	cK	613	ASN
7	cL	211	GLN
7	cM	462	ASN
7	cM	511	GLN
7	cN	16	GLN
7	cN	401	GLN
7	cN	440	ASN
7	cN	501	ASN
7	cN	523	ASN

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Mol	Chain	Res	Type
7	cN	576	ASN
7	cO	274	GLN
7	cO	390	GLN
7	cO	563	ASN
7	cP	286	ASN
7	cP	390	GLN
7	cP	440	ASN
7	cP	612	ASN
7	dS	21	ASN
7	dS	34	GLN
7	dT	91	ASN
7	dT	200	ASN
7	dU	501	ASN
7	dU	523	ASN
7	dU	612	ASN
7	dV	34	GLN
7	dV	76	ASN
7	dV	91	ASN
7	dV	200	ASN
7	dV	495	ASN
7	dV	501	ASN
7	dV	523	ASN
7	dV	576	ASN
7	dV	636	ASN
7	dW	612	ASN
7	dZ	76	ASN
7	dZ	200	ASN
7	dZ	440	ASN
7	dZ	511	GLN
7	dZ	612	ASN
8	eB	40	GLN
8	eB	195	ASN
8	eB	388	GLN
8	eB	394	ASN
8	eB	400	ASN
8	eB	434	GLN
8	eU	169	GLN
8	eU	276	ASN
8	eU	388	GLN
8	eU	483	GLN
8	eW	32	ASN
8	eW	305	ASN

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Mol	Chain	Res	Type
8	eW	336	GLN
8	eW	388	GLN
8	eW	394	ASN
8	eW	400	ASN
8	f9	144	ASN
8	f9	233	ASN
8	f9	276	ASN
8	f9	301	ASN
8	f9	388	GLN
8	f9	456	ASN
8	f9	504	GLN
8	f9	525	ASN
8	fA	7	ASN
8	fA	15	ASN
8	fA	40	GLN
8	fA	94	GLN
8	fA	233	ASN
8	fA	281	ASN
8	fA	301	ASN
8	fA	361	GLN
8	fA	427	ASN
8	fA	434	GLN
8	fA	518	ASN
8	fB	31	GLN
8	fB	169	GLN
8	fB	276	ASN
8	fB	299	ASN
8	fB	388	GLN
8	fB	394	ASN
8	fB	439	GLN
8	fB	570	GLN
8	fR	7	ASN
8	fR	119	ASN
8	fR	159	ASN
8	fR	301	ASN
8	fR	336	GLN
8	fR	427	ASN
8	fR	489	GLN
8	fS	63	ASN
8	fS	94	GLN
8	fS	196	GLN
8	fS	276	ASN

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Mol	Chain	Res	Type
8	fS	301	ASN
8	fS	504	GLN
8	fU	32	ASN
8	fU	38	ASN
8	fU	94	GLN
8	fU	121	ASN
8	fU	388	GLN
8	fU	400	ASN
8	fU	434	GLN
8	fU	570	GLN
8	fW	32	ASN
8	fW	68	GLN
8	fW	195	ASN
8	fW	336	GLN
8	fW	388	GLN
8	fW	434	GLN
8	fW	570	GLN
8	fW	619	GLN
8	fr	63	ASN
8	fr	94	GLN
8	fr	301	ASN
8	fr	489	GLN
8	fr	518	ASN
8	fs	15	ASN
8	fs	63	ASN
8	fs	196	GLN
8	fs	233	ASN
8	fs	264	GLN
8	fs	276	ASN
8	fs	299	ASN
8	fs	337	GLN
8	fs	456	ASN
8	fs	525	ASN
9	gE	85	HIS
9	gE	157	ASN
9	gE	232	ASN
9	gE	416	HIS
9	gE	509	ASN
9	gE	526	GLN
9	gE	531	ASN
9	gG	130	ASN
9	gG	157	ASN

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Mol	Chain	Res	Type
9	gG	218	ASN
9	gG	232	ASN
9	gG	318	GLN
9	gG	416	HIS
9	gG	526	GLN
9	gH	85	HIS
9	gH	416	HIS
9	gH	509	ASN
9	gH	526	GLN
9	gH	531	ASN
9	gH	564	GLN
10	gd	61	GLN
11	h1	31	ASN
11	h1	55	ASN
11	h1	89	GLN
11	h1	95	GLN
11	h2	89	GLN
11	h2	95	GLN
11	hJ	75	ASN
11	hJ	95	GLN
11	hJ	97	ASN
11	hJ	148	ASN
11	hJ	151	GLN
11	hK	147	ASN
11	hL	55	ASN
11	hL	95	GLN
11	hL	97	ASN
11	hL	148	ASN
11	hM	59	ASN
11	hM	147	ASN
11	hX	79	HIS
11	hX	136	ASN
11	hX	147	ASN
11	he	97	ASN
11	hg	136	ASN
11	hh	59	ASN
11	hh	79	HIS
11	hi	136	ASN
11	hl	115	GLN
11	hl	147	ASN
11	hm	89	GLN
11	hm	147	ASN

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Mol	Chain	Res	Type
11	hn	95	GLN
11	hn	115	GLN
11	hn	147	ASN
11	ho	95	GLN
11	hp	22	GLN
11	hp	136	ASN
11	hp	147	ASN
11	hr	95	GLN
11	hr	97	ASN
11	hs	147	ASN
11	ht	59	ASN
11	hu	89	GLN
11	hu	97	ASN
11	hu	115	GLN
11	hu	136	ASN
11	hw	115	GLN
11	hx	89	GLN
11	hx	115	GLN
11	hx	136	ASN
11	hx	151	GLN
11	hy	79	HIS
12	iC	53	GLN
12	iC	76	ASN
12	iC	82	ASN
12	iC	103	ASN
12	iC	221	GLN
12	iC	332	GLN
12	iD	48	ASN
12	iD	61	HIS
12	iD	103	ASN
12	iD	344	HIS
12	iD	349	ASN
12	iF	26	ASN
12	iF	53	GLN
12	iF	205	ASN
12	iF	299	GLN
12	iF	317	ASN
13	jc	571	ASN
14	k3	17	ASN
14	k3	103	ASN
14	k3	112	HIS
14	k3	116	ASN

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Mol	Chain	Res	Type
14	k3	163	ASN
14	k4	90	GLN
14	k4	108	GLN
14	k4	178	ASN
14	k7	17	ASN
14	k7	103	ASN
14	k8	90	GLN
14	k8	178	ASN
14	kV	90	GLN
14	kV	178	ASN
14	lV	103	ASN
14	lV	108	GLN
15	m1	5	ASN
15	m1	20	ASN
15	m1	76	ASN
15	m2	60	GLN
15	m5	76	ASN
15	m5	125	GLN
15	m6	115	ASN
15	mT	76	ASN
15	nT	5	ASN
16	o0	53	GLN
16	o0	188	GLN
16	o0	224	ASN
16	o1	23	GLN
16	o1	144	ASN
16	o2	144	ASN
16	o6	83	ASN
16	o6	113	ASN
16	o6	144	ASN
16	pA	224	ASN
16	pB	224	ASN
17	q3	20	ASN
17	q3	142	ASN
17	q3	147	ASN
17	q3	200	GLN
17	q3	202	ASN
17	q4	142	ASN
17	q4	175	GLN
17	q5	119	ASN
17	q7	119	ASN
17	q7	147	ASN

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Mol	Chain	Res	Type
17	q7	175	GLN
17	q7	200	GLN
17	q7	202	ASN
17	q7	249	GLN
17	q8	20	ASN
17	q8	119	ASN
17	q8	142	ASN
17	q8	175	GLN
17	q8	200	GLN
17	q8	202	ASN
17	q8	204	HIS
17	q9	13	ASN
17	q9	119	ASN
17	q9	144	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

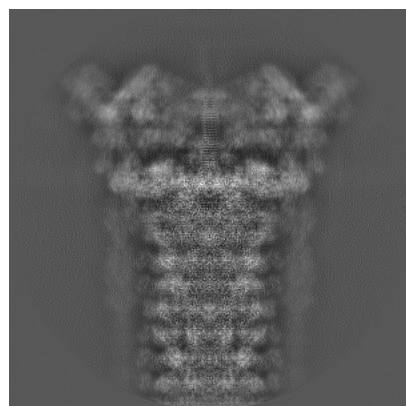
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-48459. These allow visual inspection of the internal detail of the map and identification of artifacts.

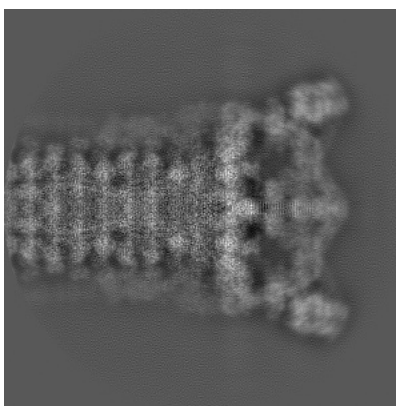
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

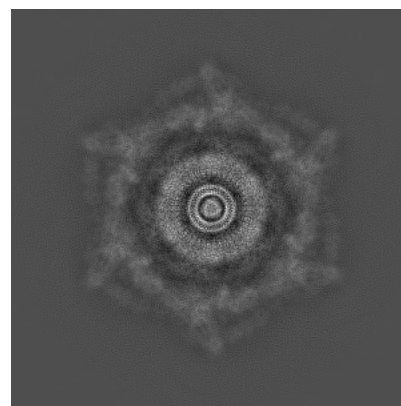
6.1.1 Primary map



X

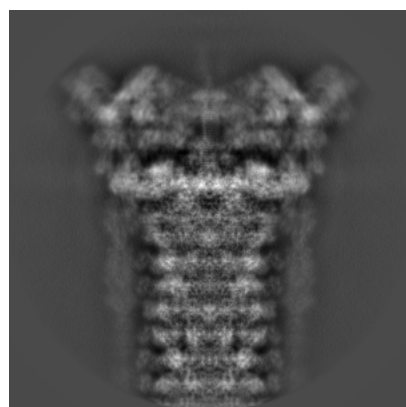


Y

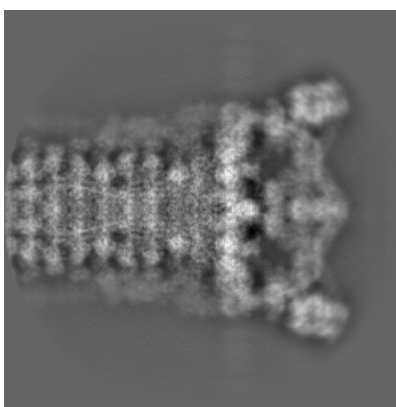


Z

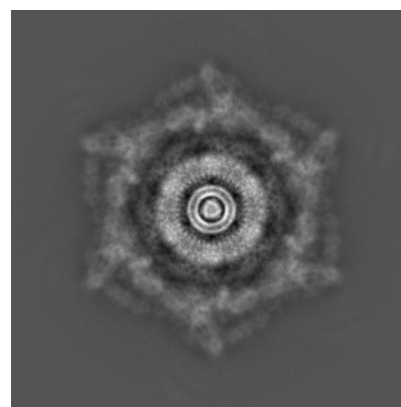
6.1.2 Raw map



X



Y



Z

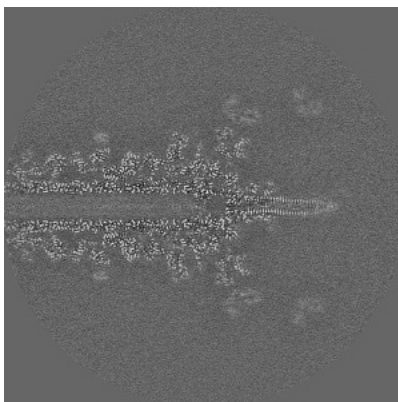
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

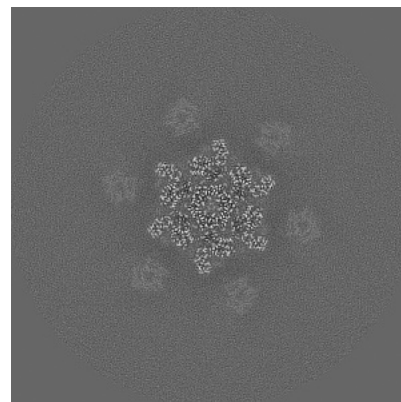
6.2.1 Primary map



X Index: 200

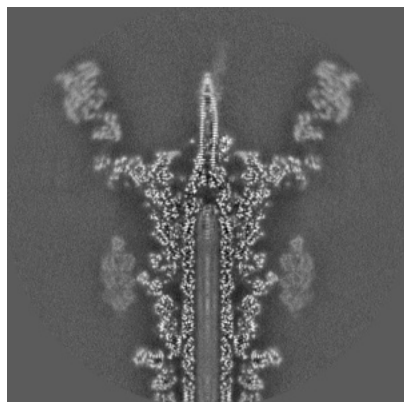


Y Index: 200

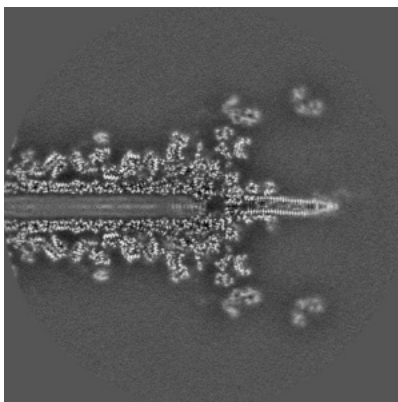


Z Index: 200

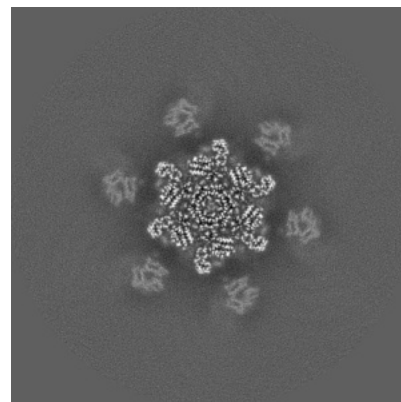
6.2.2 Raw map



X Index: 200



Y Index: 200

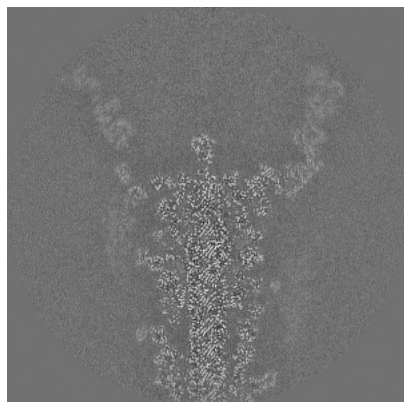


Z Index: 200

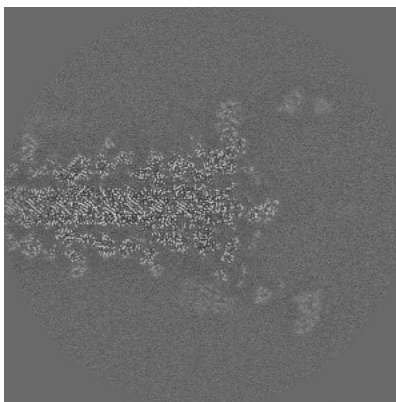
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

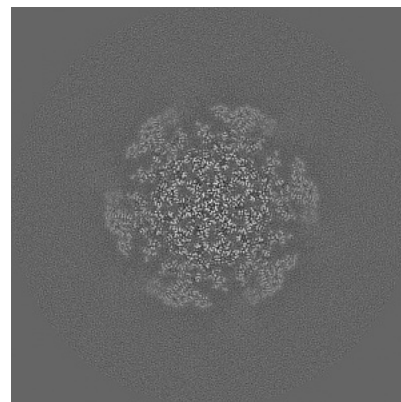
6.3.1 Primary map



X Index: 215

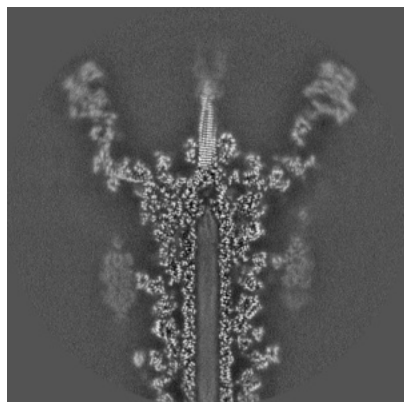


Y Index: 215

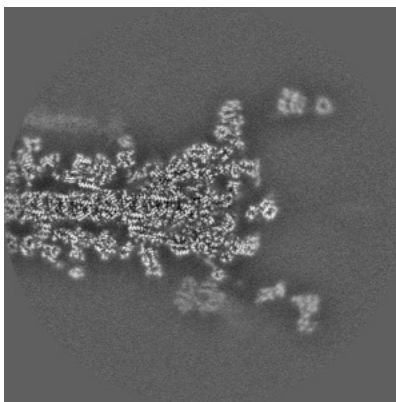


Z Index: 224

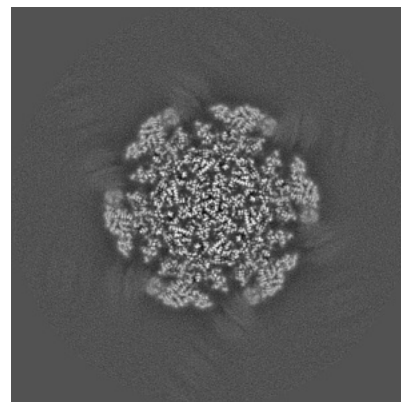
6.3.2 Raw map



X Index: 195



Y Index: 220

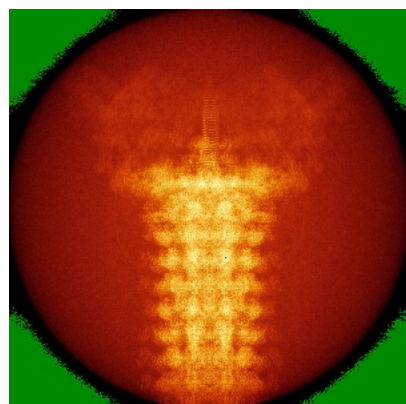


Z Index: 224

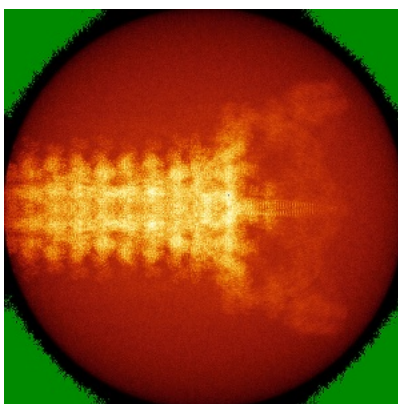
The images above show the largest variance slices of the map in three orthogonal directions.

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

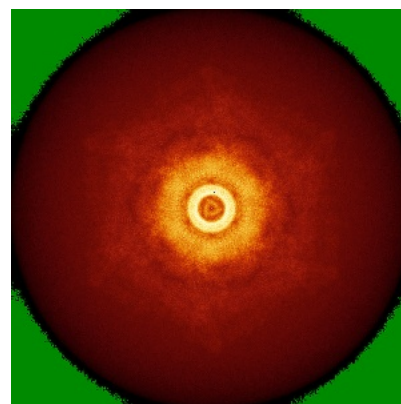
6.4.1 Primary map



X

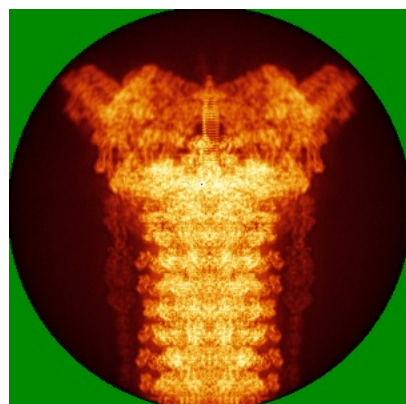


Y

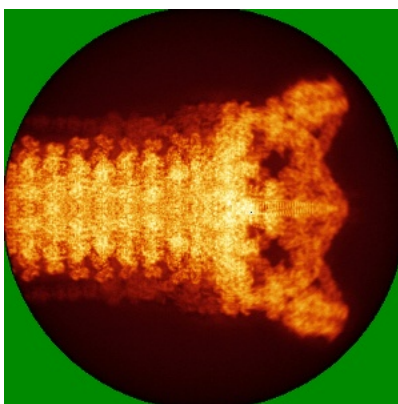


Z

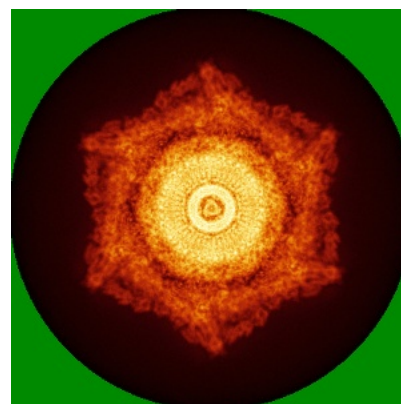
6.4.2 Raw map



X



Y

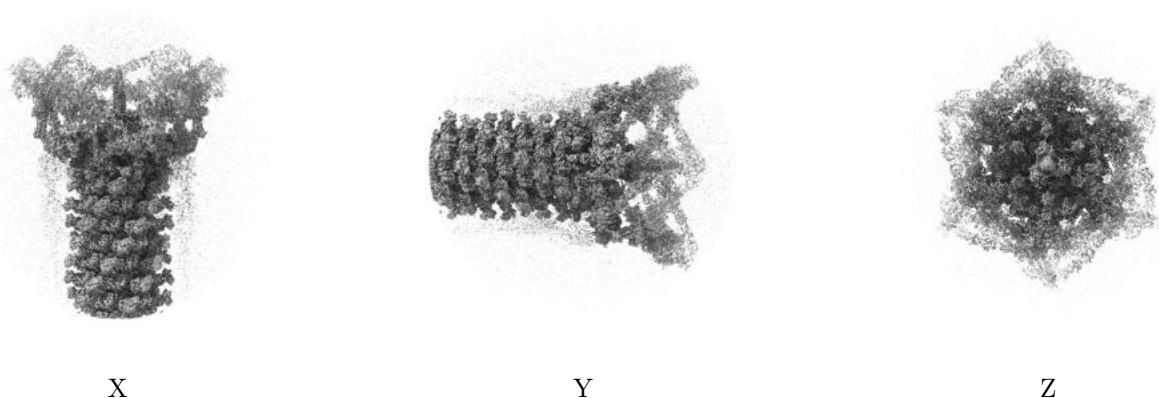


Z

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

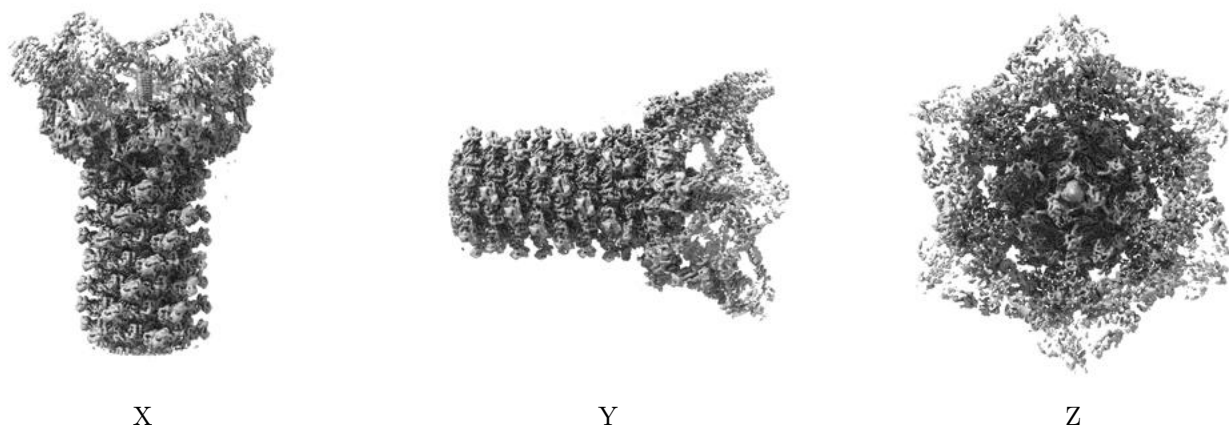
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.015. 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



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.

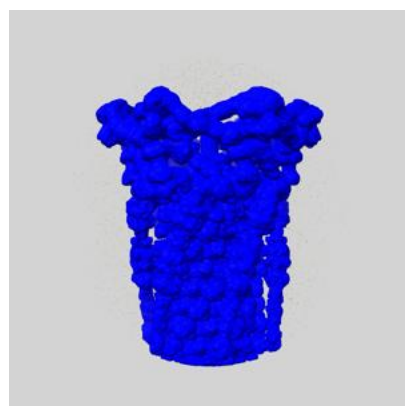
6.6 Mask visualisation [i](#)

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

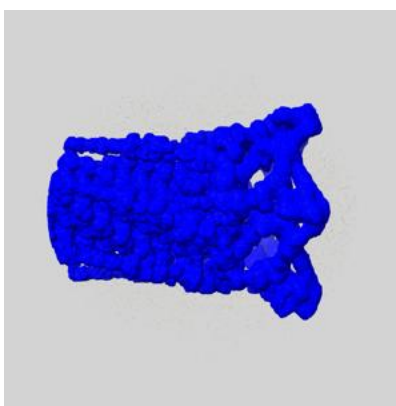
A mask typically either:

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

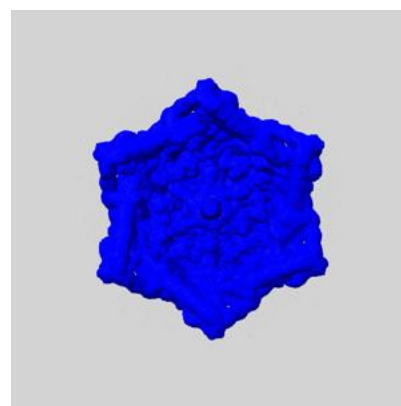
6.6.1 emd_48459_msk_1.map [i](#)



X



Y

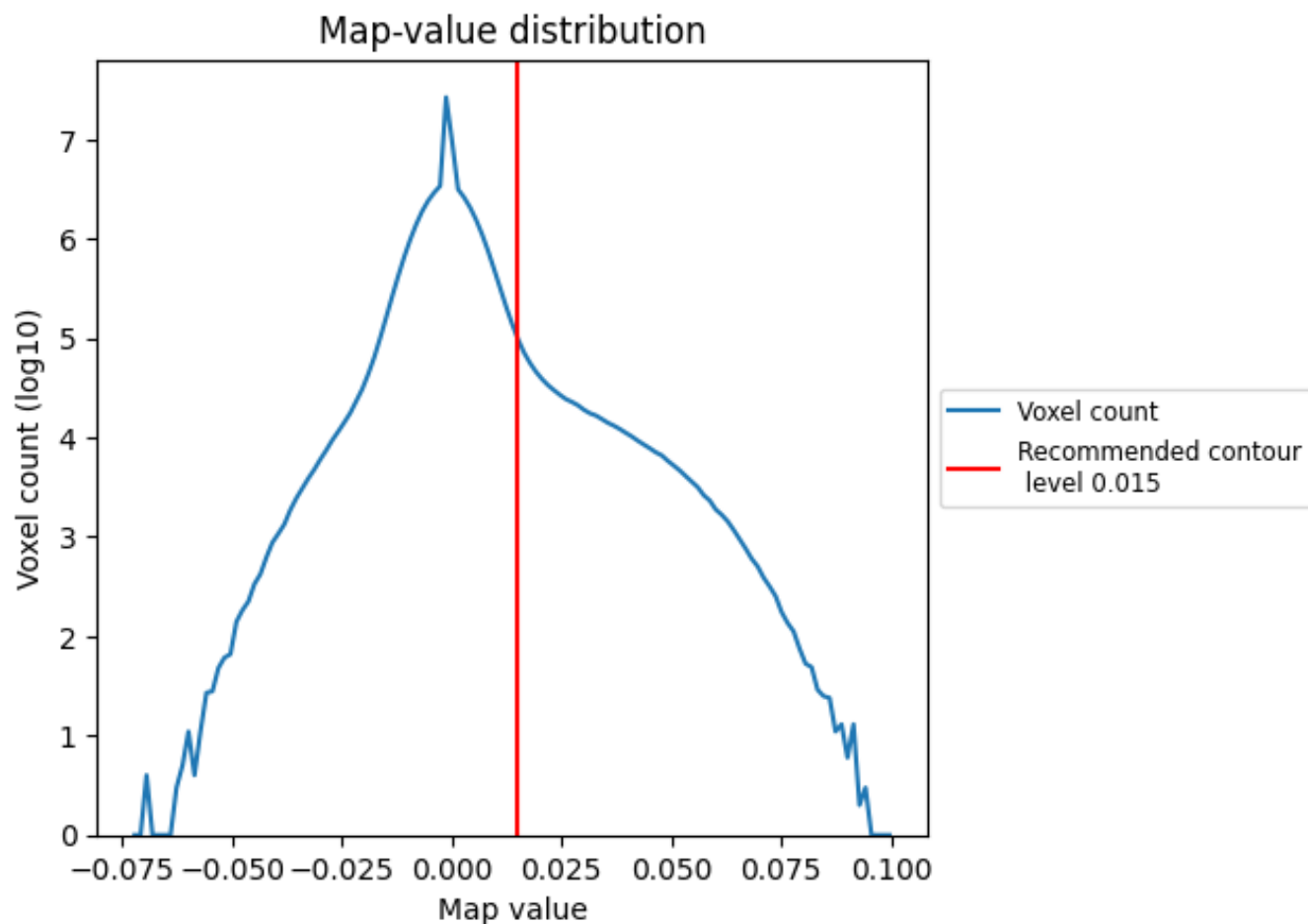


Z

7 Map analysis [i](#)

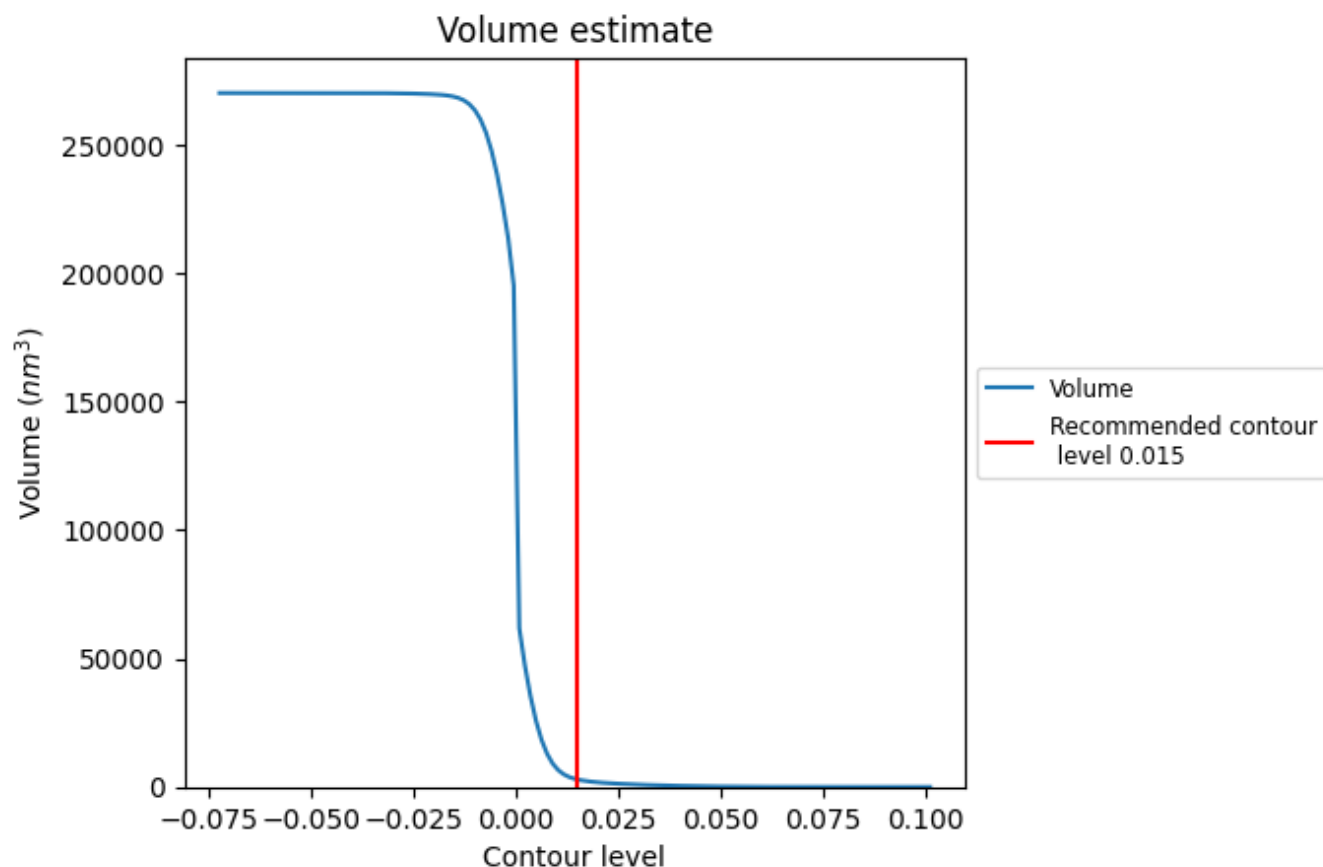
This section contains the results of statistical analysis of the map.

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.

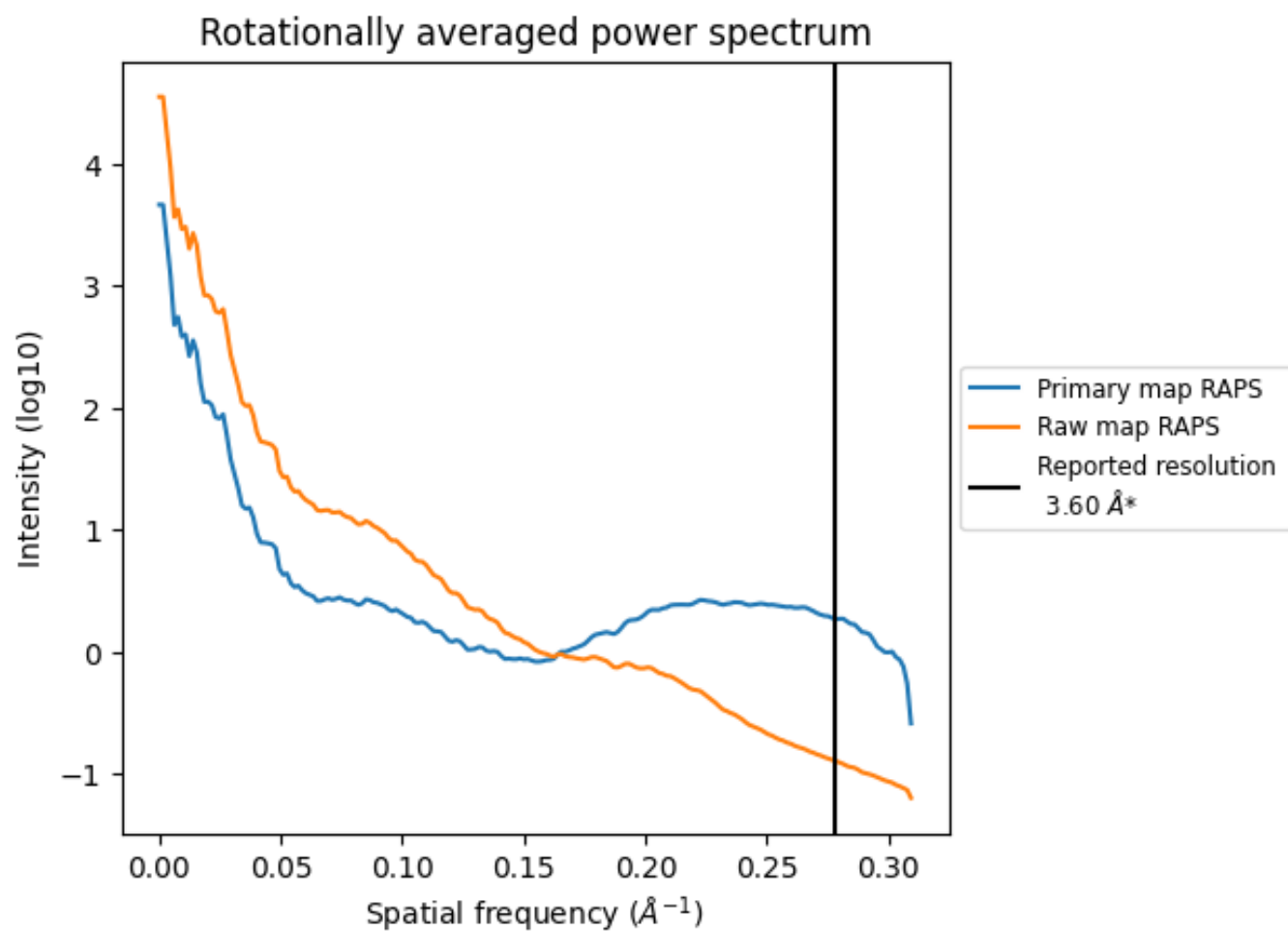
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2938 nm^3 ; this corresponds to an approximate mass of 2654 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 ⓘ

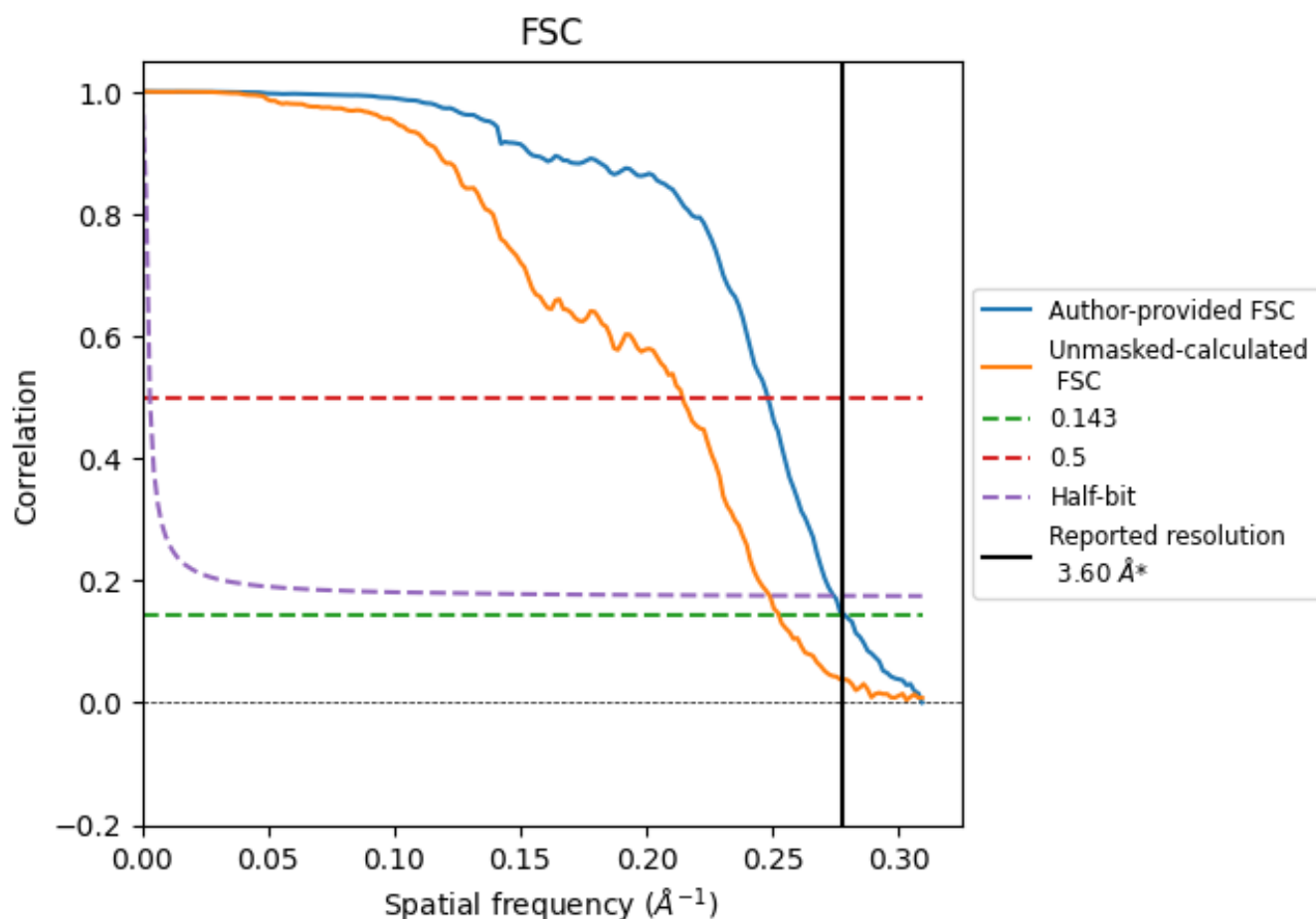


*Reported resolution corresponds to spatial frequency of 0.278 Å⁻¹

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 0.278 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

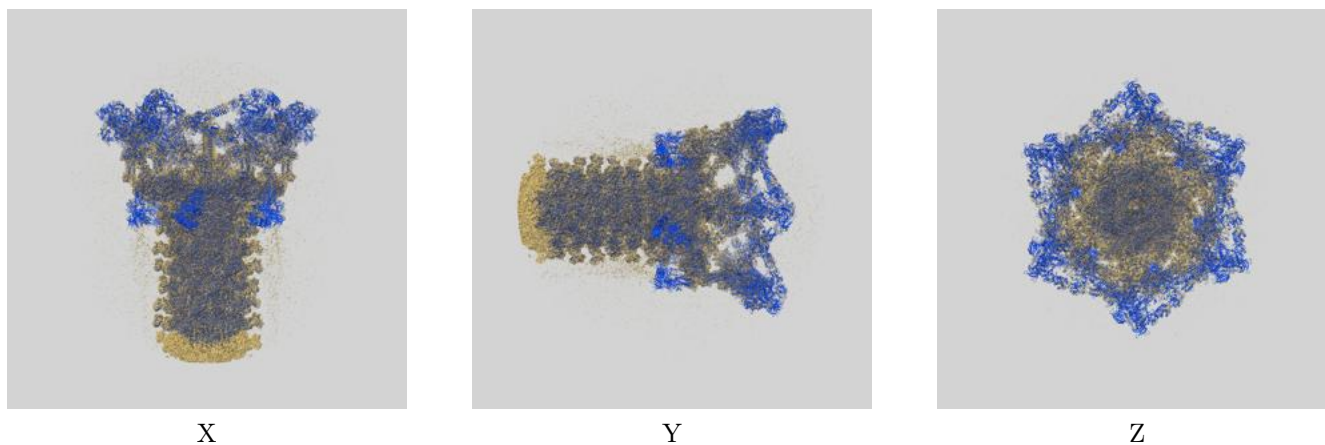
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.59	4.03	3.64
Unmasked-calculated*	3.96	4.67	4.02

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

9 Map-model fit [i](#)

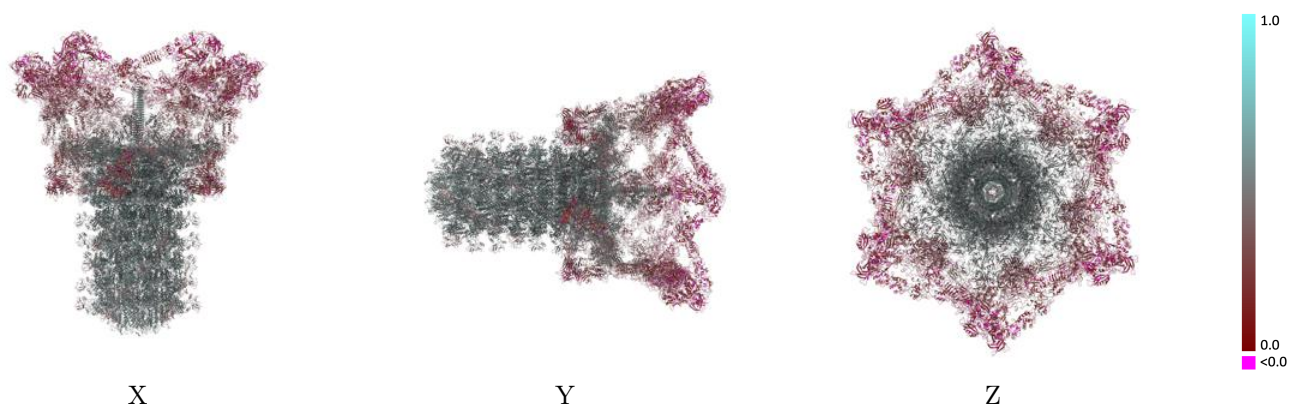
This section contains information regarding the fit between EMDB map EMD-48459 and PDB model 9MOG. Per-residue inclusion information can be found in [section 3](#) on [page 28](#).

9.1 Map-model overlay [i](#)



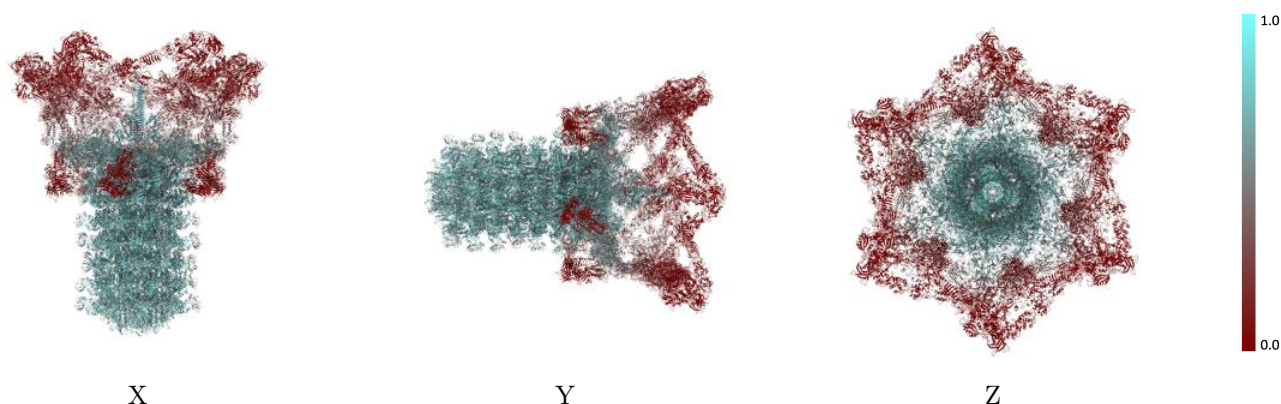
The images above show the 3D surface view of the map at the recommended contour level 0.015 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



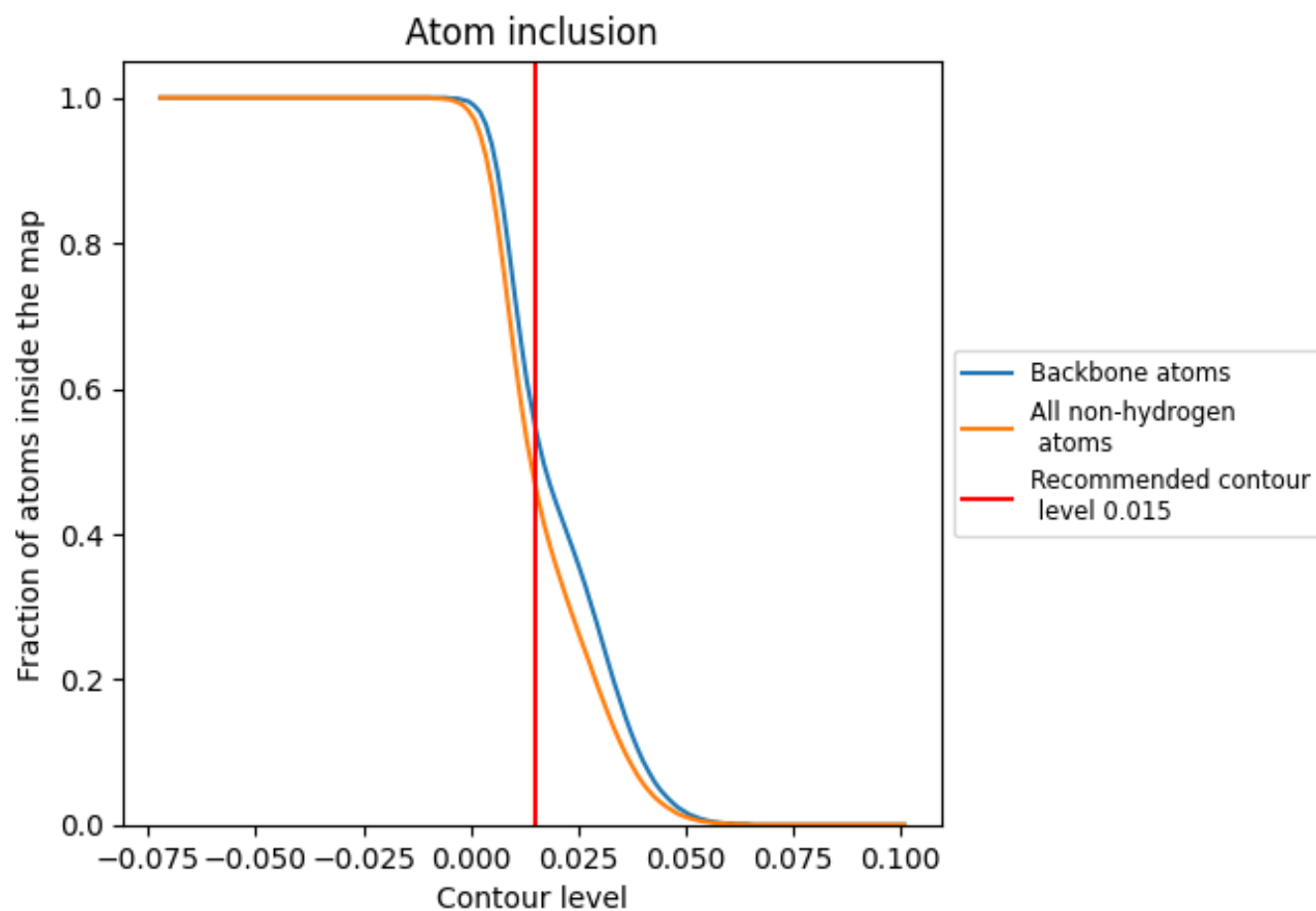
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 55% of all backbone atoms, 47% 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	 0.4690	 0.4040
S0	 0.0420	 0.1890
S1	 0.0590	 0.2030
S2	 0.0580	 0.1830
S3	 0.0560	 0.1970
S4	 0.0570	 0.2040
S5	 0.0580	 0.1910
S6	 0.0600	 0.1860
S7	 0.0590	 0.1820
S8	 0.0600	 0.1920
SA	 0.0550	 0.1920
SO	 0.0640	 0.1960
SP	 0.0600	 0.1830
SQ	 0.0500	 0.1960
Sv	 0.0570	 0.2010
Sw	 0.0590	 0.1960
Sx	 0.0590	 0.1860
Sy	 0.0630	 0.1790
Sz	 0.0570	 0.1960
T1	 0.0190	 0.2460
T2	 0.0190	 0.2560
T3	 0.0180	 0.2570
T4	 0.0200	 0.2460
T5	 0.0200	 0.2430
T6	 0.0230	 0.2630
T7	 0.0320	 0.2640
T8	 0.0220	 0.2580
T9	 0.0310	 0.2790
TF	 0.0170	 0.2440
TG	 0.0260	 0.2610
TH	 0.0270	 0.2780
Td	 0.0220	 0.2400
Te	 0.0240	 0.2420
Tf	 0.0230	 0.2580
Tg	 0.0330	 0.2620



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Chain	Atom inclusion	Q-score
Th	0.0230	0.2640
Ti	0.0280	0.2760
UL	0.0270	0.1850
UM	0.0190	0.1690
UN	0.0260	0.1630
Up	0.0220	0.1830
Uq	0.0230	0.1750
Ur	0.0250	0.1580
Us	0.0210	0.1640
Ut	0.0360	0.1680
Uu	0.0290	0.1560
VL	0.0220	0.1790
VM	0.0240	0.1590
VN	0.0300	0.1690
Vp	0.0210	0.1850
Vq	0.0300	0.1800
Vr	0.0240	0.1550
Vs	0.0160	0.1640
Vt	0.0330	0.1680
Vu	0.0330	0.1610
WI	0.1340	0.2510
WJ	0.1610	0.2510
WK	0.1630	0.2650
Wj	0.1360	0.2540
Wk	0.1340	0.2500
Wl	0.1580	0.2640
Wm	0.1580	0.2510
Wn	0.1520	0.2590
Wo	0.1610	0.2640
XI	0.1370	0.2480
XJ	0.1540	0.2600
XK	0.1560	0.2600
Xj	0.1370	0.2510
Xk	0.1360	0.2490
Xl	0.1550	0.2610
Xm	0.1650	0.2500
Xn	0.1560	0.2600
Xo	0.1630	0.2610
YC	0.5110	0.4190
YX	0.5230	0.4210
YY	0.5130	0.4190
Yc	0.5180	0.4190

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Chain	Atom inclusion	Q-score
Yx	 0.5130	 0.4190
Yy	 0.5160	 0.4180
ZD	 0.5180	 0.4190
ZE	 0.6070	 0.4770
ZZ	 0.5250	 0.4250
Za	 0.5040	 0.4170
Zb	 0.6070	 0.4740
Zc	 0.6030	 0.4770
aD	 0.5220	 0.4270
aE	 0.6080	 0.4720
aZ	 0.5270	 0.4290
aa	 0.5210	 0.4210
ab	 0.6120	 0.4730
ac	 0.6140	 0.4750
b0	 0.6990	 0.5000
b3	 0.6620	 0.4880
b4	 0.6540	 0.4830
b5	 0.6660	 0.4880
b6	 0.6580	 0.4820
b7	 0.6650	 0.4860
b8	 0.7020	 0.5000
b9	 0.7030	 0.4990
bN	 0.7160	 0.5180
bO	 0.7150	 0.5190
bP	 0.7180	 0.5220
bQ	 0.7140	 0.5170
bR	 0.7150	 0.5170
bY	 0.7150	 0.5200
cA	 0.7000	 0.4970
cB	 0.6960	 0.5000
cC	 0.7110	 0.5050
cD	 0.7100	 0.5060
cE	 0.6580	 0.4850
cF	 0.6990	 0.4970
cG	 0.7070	 0.5060
cH	 0.7010	 0.5040
cI	 0.7090	 0.5030
cJ	 0.7120	 0.5070
cK	 0.7090	 0.5060
cL	 0.7030	 0.5020
cM	 0.7000	 0.5040
cN	 0.7030	 0.5020

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Chain	Atom inclusion	Q-score
cO	 0.6970	 0.5030
cP	 0.7050	 0.5040
dS	 0.7200	 0.5230
dT	 0.7080	 0.5160
dU	 0.7230	 0.5230
dV	 0.7070	 0.5180
dW	 0.7250	 0.5210
dZ	 0.7060	 0.5170
eB	 0.6930	 0.5040
eU	 0.6930	 0.5080
eW	 0.6870	 0.5030
f9	 0.6960	 0.5080
fA	 0.6930	 0.5020
fB	 0.6890	 0.5050
fR	 0.6950	 0.5080
fS	 0.6970	 0.5090
fU	 0.6870	 0.5070
fW	 0.6920	 0.5030
fr	 0.6970	 0.5070
fs	 0.6890	 0.5050
gE	 0.7630	 0.5270
gG	 0.7660	 0.5280
gH	 0.7660	 0.5320
gd	 0.4620	 0.3220
h1	 0.7530	 0.5420
h2	 0.7560	 0.5430
hI	 0.7500	 0.5450
hJ	 0.7370	 0.5400
hK	 0.7510	 0.5440
hL	 0.7520	 0.5430
hM	 0.7590	 0.5430
hX	 0.7400	 0.5400
he	 0.6810	 0.5200
hf	 0.6890	 0.5250
hg	 0.6850	 0.5200
hh	 0.6790	 0.5200
hi	 0.6870	 0.5220
hj	 0.7290	 0.5300
hk	 0.7330	 0.5280
hl	 0.7330	 0.5350
hm	 0.7180	 0.5280
hn	 0.7370	 0.5310

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Chain	Atom inclusion	Q-score
ho	 0.7630	 0.5460
hp	 0.7490	 0.5380
hq	 0.7610	 0.5420
hr	 0.7600	 0.5410
hs	 0.7610	 0.5400
ht	 0.6810	 0.5190
hu	 0.7260	 0.5290
hv	 0.7560	 0.5430
hw	 0.7590	 0.5410
hx	 0.7640	 0.5460
hy	 0.7540	 0.5380
hz	 0.7560	 0.5450
iC	 0.7410	 0.5500
iD	 0.7460	 0.5490
iF	 0.7460	 0.5510
ja	 0.6930	 0.5360
jb	 0.6790	 0.5300
jc	 0.6930	 0.5190
k3	 0.7310	 0.5280
k4	 0.7290	 0.5290
k7	 0.7290	 0.5310
k8	 0.7320	 0.5280
kV	 0.7280	 0.5310
lV	 0.7360	 0.5290
m1	 0.6870	 0.5190
m2	 0.6120	 0.5020
m5	 0.6800	 0.5200
m6	 0.6040	 0.5030
mT	 0.6070	 0.5010
nT	 0.6790	 0.5160
o0	 0.6560	 0.5310
o1	 0.6070	 0.5080
o2	 0.6150	 0.5110
o6	 0.6080	 0.5110
pA	 0.6700	 0.5370
pB	 0.6660	 0.5300
q3	 0.7390	 0.5420
q4	 0.7450	 0.5420
q5	 0.7400	 0.5450
q7	 0.7430	 0.5460
q8	 0.7440	 0.5470
q9	 0.7430	 0.5450

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Chain	Atom inclusion	Q-score
rc	 0.8000	 0.5480
rd	 0.8240	 0.5430
re	 0.7920	 0.5290
rf	 0.8000	 0.5480
rg	 0.8080	 0.5310
rh	 0.8080	 0.5370
sQ	 0.6220	 0.5320
sT	 0.5890	 0.5290
sU	 0.6000	 0.5100
tS	 0.7600	 0.5060
tX	 0.6600	 0.4860
tY	 0.7000	 0.5000
uR	 0.6290	 0.5540
uV	 0.7140	 0.5230
uW	 0.6860	 0.5260
vZ	 0.8440	 0.5900
va	 0.8440	 0.5800
vb	 0.8000	 0.5640