Full wwPDB EM Validation Report

Mar 6, 2026 – 02:07 PM UTC

PDB ID	:	7TBM / pdb_00007tbm
EMDB ID	:	EMD-11967
Title	:	Composite structure of the dilated human nuclear pore complex (NPC) generated with a 37A in situ cryo-ET map of CD4+ T cell NPC
Authors	:	Bley, C.J.; Nie, S.; Mobbs, G.W.; Petrovic, S.; Gres, A.T.; Liu, X.; Mukherjee, S.; Harvey, S.; Huber, F.M.; Lin, D.H.; Brown, B.; Tang, A.W.; Rundlet, E.J.; Correia, A.R.; Chen, S.; Regmi, S.G.; Stevens, T.A.; Jette, C.A.; Dasso, M.; Patke, A.; Palazzo, A.F.; Kossiakoff, A.A.; Hoelz, A.
Deposited on	:	2021-12-22
Resolution	:	37.00 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 (i) 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 (1)) were used in the production of this report:

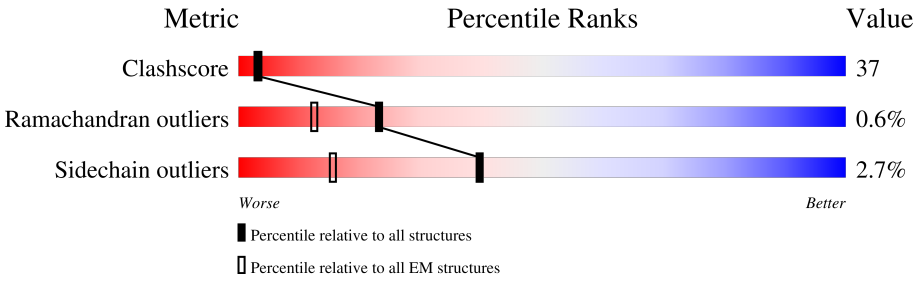
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 37.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	1316	36% 86% 7% 6%
1	A3	1316	78% 78% 15% 6%
2	A2	1328	53% 72% 21% . .
2	A4	1328	86% 60% 32% . .
3	A5	1330	50% 80% 15% .
3	A6	1330	85% 60% 35% .
4	B1	14	79% 86% 14%

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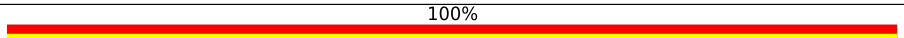
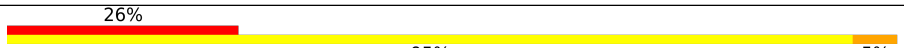
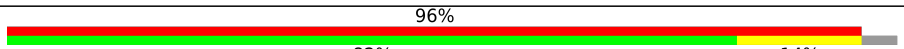
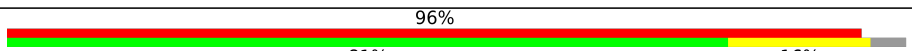
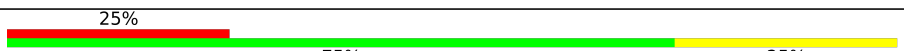
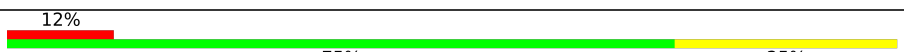
Mol	Chain	Length	Quality of chain
4	B2	14	
4	B3	14	
4	B4	14	
4	B5	14	
4	B6	14	
5	C1	19	
5	C2	19	
5	C3	19	
5	C4	19	
5	C5	19	
5	C6	19	
6	D1	644	
6	D2	644	
6	D3	644	
6	D4	644	
6	D5	644	
6	D6	644	
6	D7	644	
7	E1	8	
7	E2	8	
7	E3	8	
7	E4	8	
7	E5	8	
7	E6	8	
7	E7	8	

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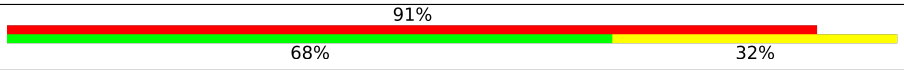
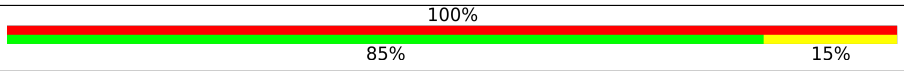
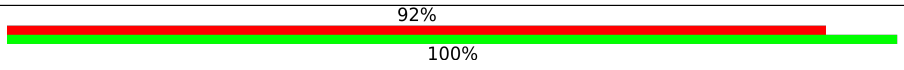
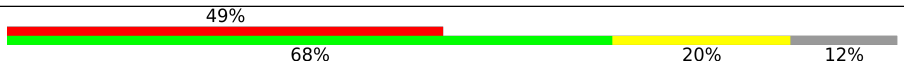
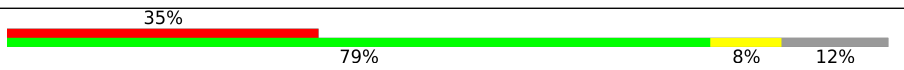
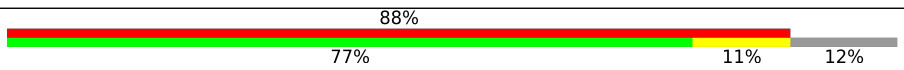
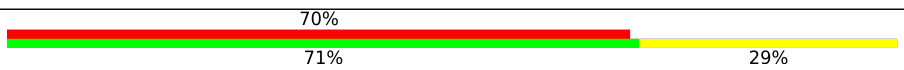
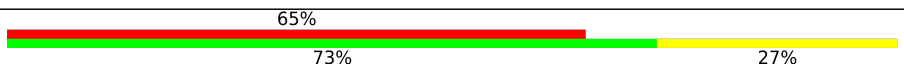
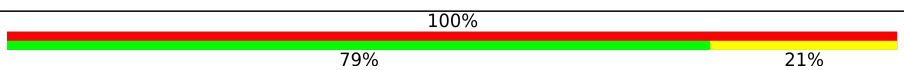
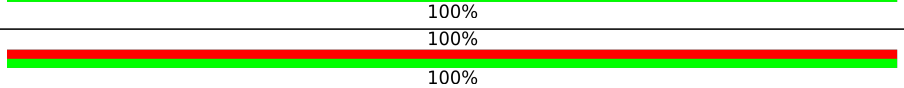
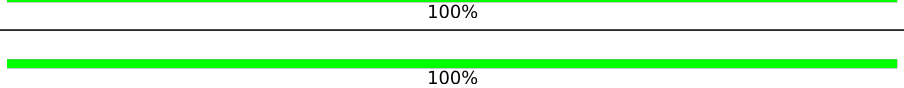
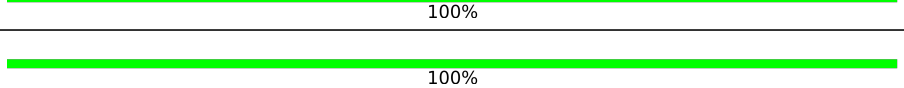
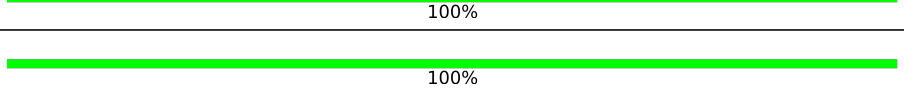
Mol	Chain	Length	Quality of chain
8	F1	1858	
8	F2	1858	
9	G1	53	
9	G2	53	
10	H1	13	
10	H2	13	
11	I1	1756	
11	I2	1756	
11	I3	1756	
11	I4	1756	
11	I5	1756	
12	J1	63	
12	J2	63	
12	J3	63	
12	J4	63	
12	J5	63	
13	K1	9	
13	K2	9	
13	K3	9	
13	K4	9	
13	K5	9	
14	L1	2	
14	L2	2	
14	L3	2	
14	L4	2	

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Mol	Chain	Length	Quality of chain
14	L5	2	100% 100%
15	M1	183	41% 63% 29% 8%
15	M2	183	56% 86% 6% 8%
15	M3	183	77% 64% 28% 8%
15	M4	183	81% 90% 8%
16	N1	222	36% 59% 22% 19%
16	N2	222	44% 73% 8% 19%
16	N3	222	55% 61% 20% 19%
16	N4	222	61% 78% 19%
17	O1	241	54% 67% 32%
17	O2	241	66% 78% 21%
17	O3	241	82% 64% 34%
17	O4	241	98% 80% 19%
18	P1	116	80% 90% 10%
18	P2	116	100% 92% 8%
18	P3	116	100% 89% 11%
18	P4	116	100% 90% 10%
19	Q1	84	95% 92% 7%
19	Q2	84	65% 86% 10% 5%
19	Q3	84	50% 92% 7%
19	Q4	84	21% 86% 10% 5%
20	R1	40	72% 35% 65%
20	R2	40	55% 92% 8%
20	R3	40	60% 30% 70%
20	R4	40	62% 92% 8%

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Mol	Chain	Length	Quality of chain
21	S1	1156	70% 56% 19% 22%
21	S2	1156	59% 57% 18% 22%
21	S3	1156	67% 57% 18% 22%
21	S4	1156	78% 58% 18% 22%
22	T1	258	45% 55% 39%
22	T2	258	69% 59% 35%
22	T3	258	76% 59% 35%
22	T4	258	72% 60% 34%
23	U1	436	61% 60% 31% 5%
23	U2	436	96% 55% 35% 6%
23	U3	436	96% 68% 24%
23	U4	436	60% 68% 23%
24	V1	621	35% 56% 22% 18%
24	V2	621	82% 56% 21% 18%
24	V3	621	80% 57% 21% 18%
24	V4	621	31% 56% 21% 18%
25	W1	286	63% 65% 27%
25	W2	286	96% 64% 29%
25	W3	286	88% 67% 25%
25	W4	286	89% 61% 31%
26	X1	698	61% 64% 22% 11%
26	X2	698	89% 57% 29% 11%
26	X3	698	86% 65% 21% 11%
26	X4	698	88% 65% 22% 11%
27	Y1	346	7% 58% 29% 11%

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Mol	Chain	Length	Quality of chain
27	Y2	346	80% 59% 29% 11%
27	Y3	346	89% 59% 29% 11%
27	Y4	346	89% 58% 29% 11%
28	Z1	1037	31% 66% 19% 14%
28	Z2	1037	80% 61% 24% 14%
28	Z3	1037	73% 66% 19% 14%
28	Z4	1037	45% 63% 22% 14%
29	a1	380	64% 75% 8% 17%
29	a2	380	23% 73% 9% 17%
29	a3	380	83% 74% 9% 17%
29	a4	380	83% 75% 7% 17%
30	b1	385	58% 49% 36% 11%
30	b2	385	85% 49% 36% 11%
30	b3	385	89% 48% 37% 11%
30	b4	385	31% 48% 37% 11%
31	c1	750	45% 79% 20%
31	c2	750	84% 79% 20%
31	c3	750	45% 83% 16%
31	c4	750	68% 74% 25%
31	c5	750	55% 81% 18%
32	g	421	100% 82% 16%
33	h	232	100% 72% 25%
34	i	481	44% 67% 19% 15%
35	j	150	92% 97%
36	k1	85	58% 81% 18%

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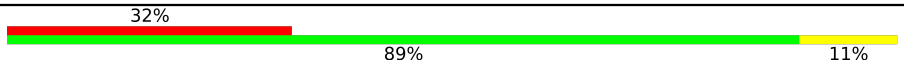
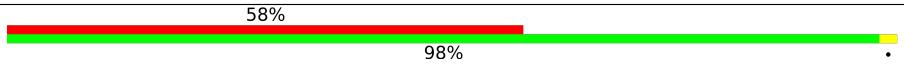
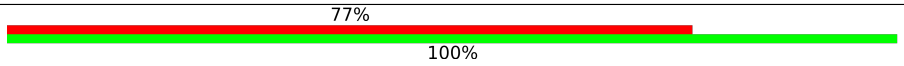
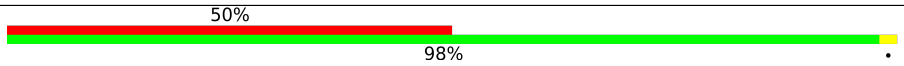
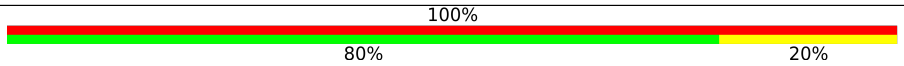
Mol	Chain	Length	Quality of chain
37	k2	37	
38	l1	92	
39	l2	39	
40	m1	88	
41	m2	20	

2 Entry composition (i)

There are 41 unique types of molecules in this entry. The entry contains 400581 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 NUP155.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	1231	Total	C	N	O	S	1	0
			9730	6152	1707	1843	28		
1	A3	1231	Total	C	N	O	S	1	0
			9730	6152	1707	1843	28		

- Molecule 2 is a protein called NUP155.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	A2	1269	Total	C	N	O	S	Se	0	0
			9946	6277	1745	1890	22	12		
2	A4	1269	Total	C	N	O	S	Se	0	0
			9946	6277	1745	1890	22	12		

- Molecule 3 is a protein called NUP155.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	A5	1276	Total	C	N	O	S	Se	1	0
			10030	6331	1762	1901	24	12		
3	A6	1276	Total	C	N	O	S	Se	1	0
			10030	6331	1762	1901	24	12		

- Molecule 4 is a protein called NUP53 R3.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	B1	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
4	B2	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
4	B3	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
4	B4	14	Total	C	N	O	S	0	0
			111	73	19	18	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	B5	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
4	B6	14	Total	C	N	O	S	0	0
			111	73	19	18	1		

- Molecule 5 is a protein called NUP98 R3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	C1	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
5	C2	19	Total	C	N	O	S	0	0
			157	100	29	27	1		
5	C3	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
5	C4	19	Total	C	N	O	S	0	0
			157	100	29	27	1		
5	C5	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
5	C6	17	Total	C	N	O	S	0	0
			138	88	24	25	1		

- Molecule 6 is a protein called NUP93 SOL.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	D1	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D2	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D3	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D4	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D5	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D6	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		
6	D7	621	Total	C	N	O	S	0	0
			5034	3200	874	934	26		

- Molecule 7 is a protein called NUP53 R2.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	E1	8	Total	C	N	O	0	0
			63	42	11	10		
7	E2	8	Total	C	N	O	0	0
			63	42	11	10		
7	E3	8	Total	C	N	O	0	0
			63	42	11	10		
7	E4	8	Total	C	N	O	0	0
			63	42	11	10		
7	E5	8	Total	C	N	O	0	0
			63	42	11	10		
7	E6	8	Total	C	N	O	0	0
			63	42	11	10		
7	E7	8	Total	C	N	O	0	0
			63	42	11	10		

- Molecule 8 is a protein called NUP188.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	F1	1641	Total	C	N	O	S	0	0
			12779	8190	2201	2333	55		
8	F2	1641	Total	C	N	O	S	0	0
			12779	8190	2201	2333	55		

- Molecule 9 is a protein called NUP93 R2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	G1	53	Total	C	N	O	S	0	0
			438	274	75	88	1		
9	G2	53	Total	C	N	O	S	0	0
			438	274	75	88	1		

- Molecule 10 is a protein called NUP98 R2.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	H1	13	Total	C	N	O	0	0
			94	58	15	21		
10	H2	13	Total	C	N	O	0	0
			94	58	15	21		

- Molecule 11 is a protein called NUP205.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	I1	1542	Total	C	N	O	S	0	0
			12307	7880	2084	2278	65		
11	I2	1542	Total	C	N	O	S	0	0
			12307	7880	2084	2278	65		
11	I3	1542	Total	C	N	O	S	0	0
			12307	7880	2084	2278	65		
11	I4	1542	Total	C	N	O	S	0	0
			12307	7880	2084	2278	65		
11	I5	1542	Total	C	N	O	S	0	0
			12307	7880	2084	2278	65		

- Molecule 12 is a protein called NUP93 R2.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	J1	63	Total	C	N	O	S	0	0
			504	315	86	102	1		
12	J2	63	Total	C	N	O	S	0	0
			504	315	86	102	1		
12	J3	63	Total	C	N	O	S	0	0
			504	315	86	102	1		
12	J4	63	Total	C	N	O	S	0	0
			504	315	86	102	1		
12	J5	63	Total	C	N	O	S	0	0
			504	315	86	102	1		

- Molecule 13 is a protein called NUP98 R1.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	K1	9	Total	C	N	O	S	0	0
			73	51	10	11	1		
13	K2	9	Total	C	N	O	S	0	0
			73	51	10	11	1		
13	K3	9	Total	C	N	O	S	0	0
			73	51	10	11	1		
13	K4	9	Total	C	N	O	S	0	0
			73	51	10	11	1		
13	K5	9	Total	C	N	O	S	0	0
			73	51	10	11	1		

- Molecule 14 is a protein called NUP53 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	L1	2	Total	C	N	O	0	0
			15	11	2	2		
14	L2	2	Total	C	N	O	0	0
			15	11	2	2		
14	L3	2	Total	C	N	O	0	0
			15	11	2	2		
14	L4	2	Total	C	N	O	0	0
			15	11	2	2		
14	L5	2	Total	C	N	O	0	0
			15	11	2	2		

- Molecule 15 is a protein called NUP62.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	M1	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		
15	M2	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		
15	M3	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		
15	M4	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		

- Molecule 16 is a protein called NUP58.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	N1	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
16	N2	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
16	N3	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
16	N4	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		

- Molecule 17 is a protein called NUP54.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	O1	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
17	O2	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
17	O3	241	Total 1971	C 1239	N 360	O 368	S 4	0	0
17	O4	241	Total 1971	C 1239	N 360	O 368	S 4	0	0

- Molecule 18 is a protein called NUP54 Ferrodoxin-like domain.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	P1	116	Total 900	C 560	N 160	O 178	S 2	1	0
18	P2	116	Total 900	C 560	N 160	O 178	S 2	1	0
18	P3	116	Total 900	C 560	N 160	O 178	S 2	1	0
18	P4	116	Total 900	C 560	N 160	O 178	S 2	1	0

- Molecule 19 is a protein called NUP53 RRM.

Mol	Chain	Residues	Atoms						AltConf	Trace
19	Q1	84	Total 658	C 421	N 114	O 117	S 1	Se 5	1	0
19	Q2	80	Total 616	C 399	N 103	O 108	S 1	Se 5	1	0
19	Q3	84	Total 658	C 421	N 114	O 117	S 1	Se 5	1	0
19	Q4	80	Total 616	C 399	N 103	O 108	S 1	Se 5	1	0

- Molecule 20 is a protein called NUP93 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
20	R1	40	Total 311	C 195	N 59	O 57	0	0
20	R2	40	Total 311	C 195	N 59	O 57	0	0
20	R3	40	Total 311	C 195	N 59	O 57	0	0
20	R4	40	Total 311	C 195	N 59	O 57	0	0

- Molecule 21 is a protein called NUP133.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	S1	902	Total	C	N	O	S	0	0
			6013	3738	1046	1210	19		
21	S2	902	Total	C	N	O	S	0	0
			6013	3738	1046	1210	19		
21	S3	902	Total	C	N	O	S	0	0
			6013	3738	1046	1210	19		
21	S4	902	Total	C	N	O	S	0	0
			6013	3738	1046	1210	19		

- Molecule 22 is a protein called NUP107 CTD.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	T1	247	Total	C	N	O	S	0	0
			1993	1282	343	355	13		
22	T2	247	Total	C	N	O	S	0	0
			1993	1282	343	355	13		
22	T3	247	Total	C	N	O	S	0	0
			1993	1282	343	355	13		
22	T4	247	Total	C	N	O	S	0	0
			1993	1282	343	355	13		

- Molecule 23 is a protein called NUP107 NTD.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	U1	418	Total	C	N	O	S	0	0
			3396	2174	555	655	12		
23	U2	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		
23	U3	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		
23	U4	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		

- Molecule 24 is a protein called NUP96.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	V1	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		
24	V2	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		
24	V3	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	V4	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		

- Molecule 25 is a protein called SEC13.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	W1	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		
25	W2	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		
25	W3	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		
25	W4	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		

- Molecule 26 is a protein called NUP75.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	X1	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		
26	X2	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		
26	X3	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		
26	X4	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		

- Molecule 27 is a protein called SEH1.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Y1	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		
27	Y2	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		
27	Y3	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		
27	Y4	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		

- Molecule 28 is a protein called NUP160.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	Z1	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		
28	Z2	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		
28	Z3	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		
28	Z4	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		

- Molecule 29 is a protein called NUP43.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	a1	316	Total	C	N	O	S	33	1
			2587	1639	447	488	13		
29	a2	316	Total	C	N	O	S	33	1
			2587	1639	447	488	13		
29	a3	316	Total	C	N	O	S	33	1
			2587	1639	447	488	13		
29	a4	316	Total	C	N	O	S	33	1
			2587	1639	447	488	13		

- Molecule 30 is a protein called NUP37.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	b1	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b2	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b3	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b4	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		

- Molecule 31 is a protein called NUP358.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	c1	743	Total	C	N	O	S	0	0
			5980	3802	1033	1117	28		
31	c2	742	Total	C	N	O	S	0	0
			5976	3800	1032	1116	28		
31	c3	742	Total	C	N	O	S	0	0
			5976	3800	1032	1116	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
31	c4	742	Total 5976	C 3800	N 1032	O 1116	S 28	0	0
31	c5	742	Total 5976	C 3800	N 1032	O 1116	S 28	0	0

- Molecule 32 is a protein called NUP214 NTD.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	g	421	Total 3282	C 2106	N 535	O 619	S 22	0	0

- Molecule 33 is a protein called DDX19.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	h	232	Total 1836	C 1174	N 313	O 338	S 11	0	0

- Molecule 34 is a protein called NUP88 NTD.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	i	409	Total 3280	C 2134	N 540	O 583	S 23	13	0

- Molecule 35 is a protein called NUP98 APD.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	j	150	Total 1197	C 760	N 205	O 228	S 4	1	0

- Molecule 36 is a protein called NUP62 CCS1.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	k1	85	Total 719	C 448	N 124	O 145	S 2	0	0

- Molecule 37 is a protein called NUP62 CCS2.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	k2	37	Total 308	C 188	N 56	O 63	S 1	0	0

- Molecule 38 is a protein called NUP214 CCS1.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	l1	92	Total	C	N	O	0	0
			460	276	92	92		

- Molecule 39 is a protein called NUP214 CCS2.

Mol	Chain	Residues	Atoms				AltConf	Trace
39	l2	39	Total	C	N	O	0	0
			195	117	39	39		

- Molecule 40 is a protein called NUP88 CCS1.

Mol	Chain	Residues	Atoms				AltConf	Trace
40	m1	88	Total	C	N	O	0	0
			440	264	88	88		

- Molecule 41 is a protein called NUP88 CCS2.

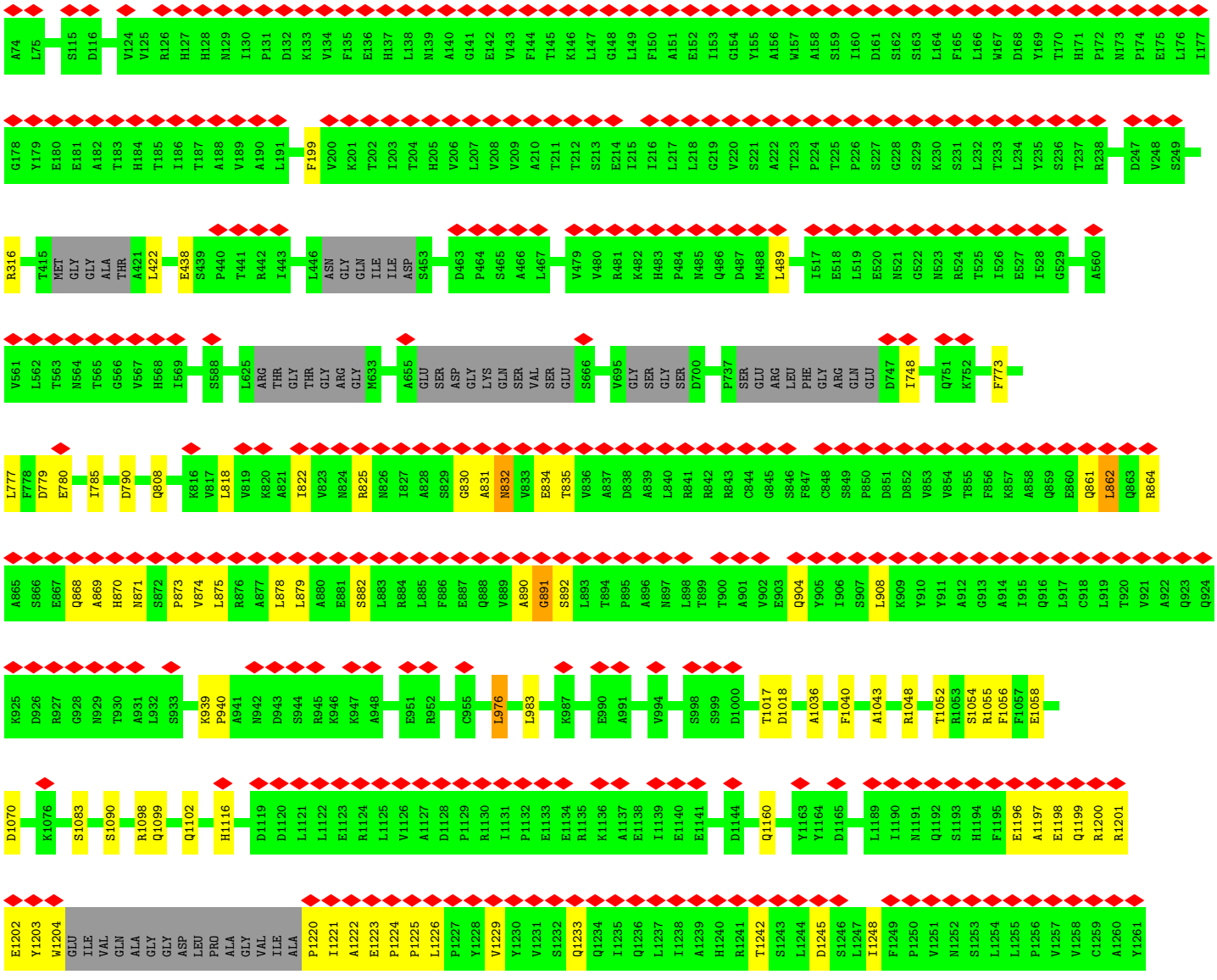
Mol	Chain	Residues	Atoms				AltConf	Trace
41	m2	20	Total	C	N	O	0	0
			100	60	20	20		

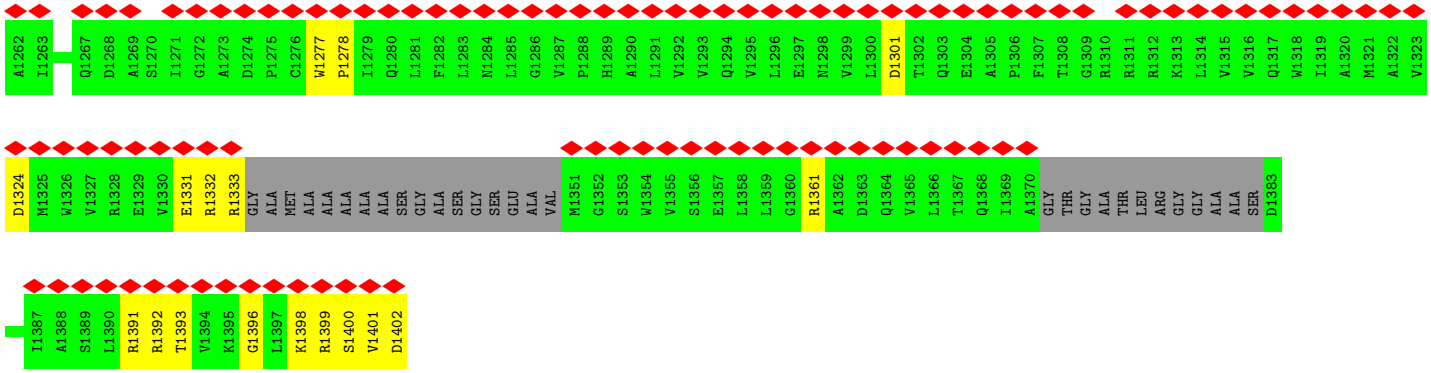
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: NUP155

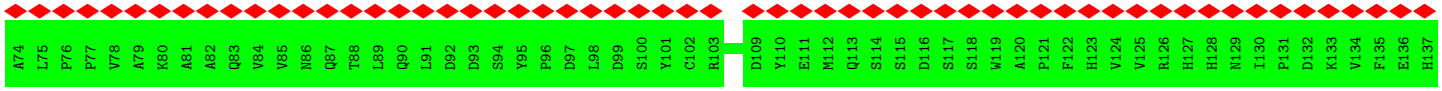
Chain A1:

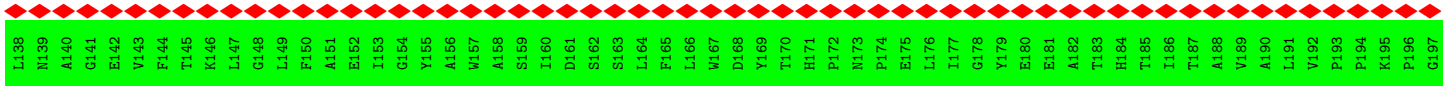


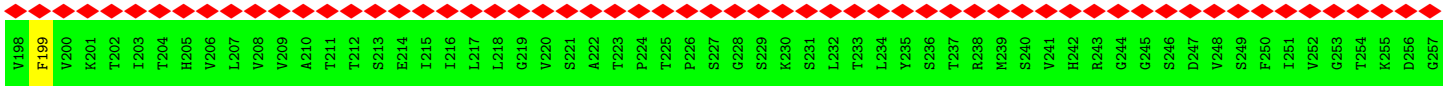


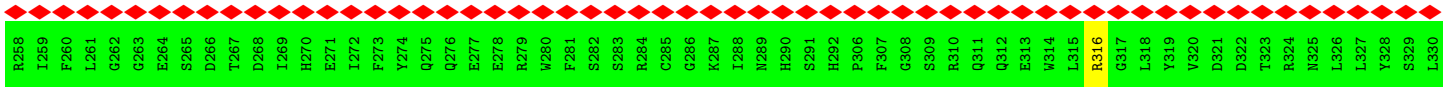
- Molecule 1: NUP155

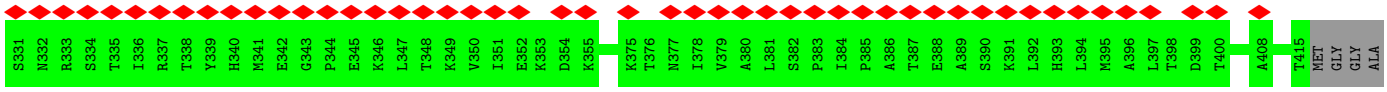
Chain A3:

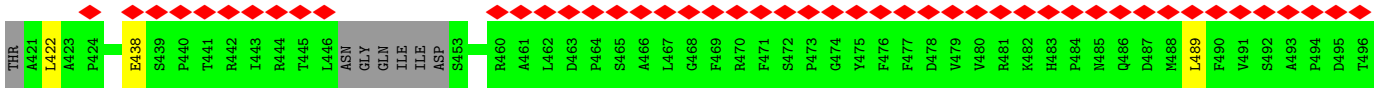


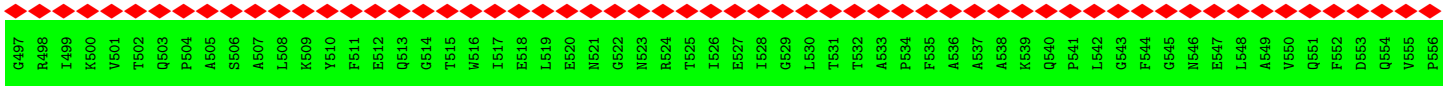


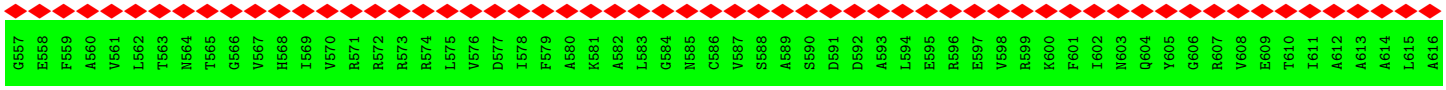


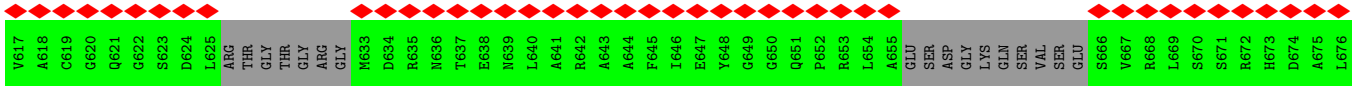


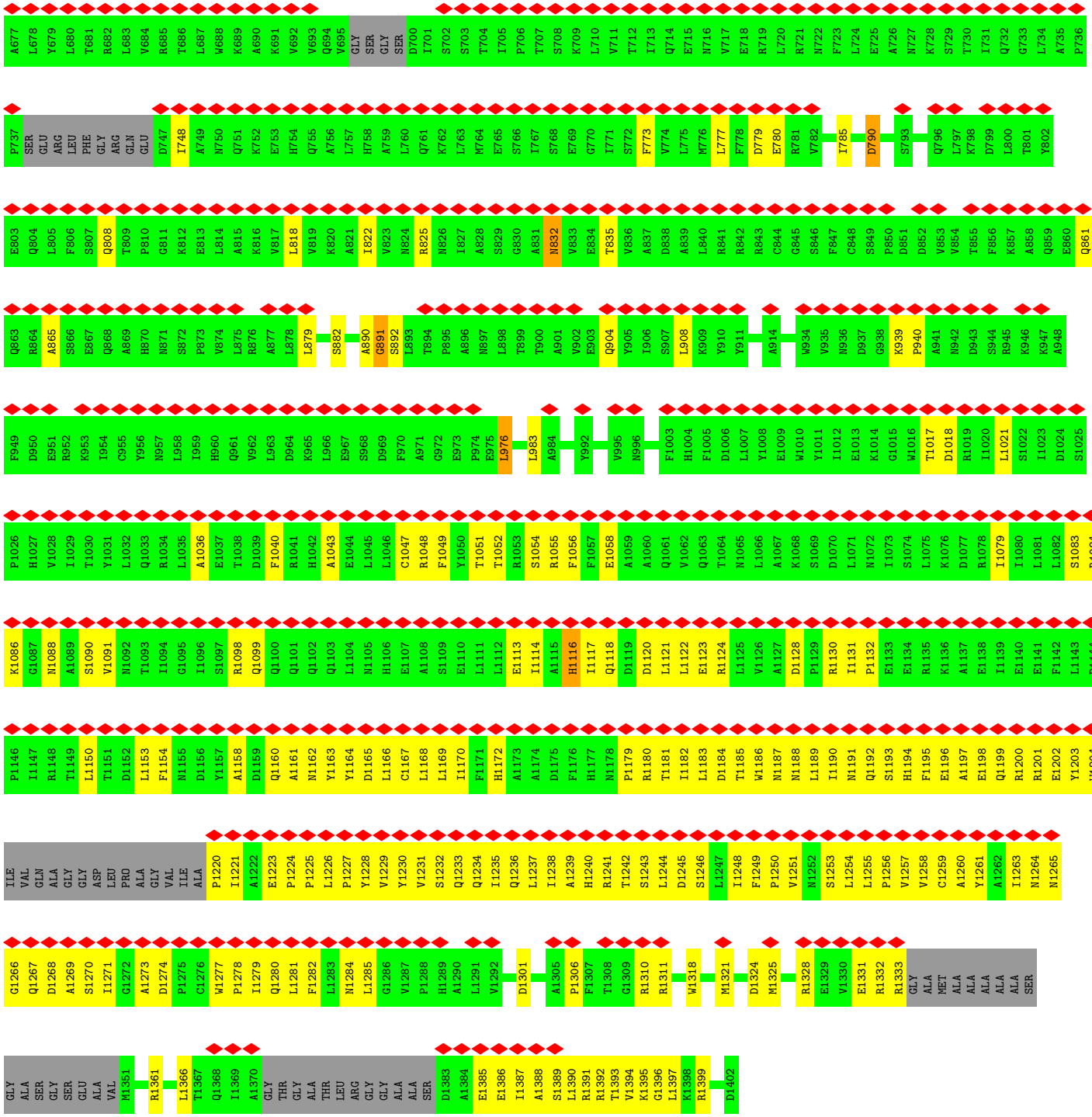






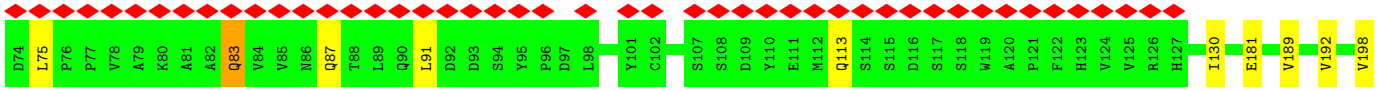


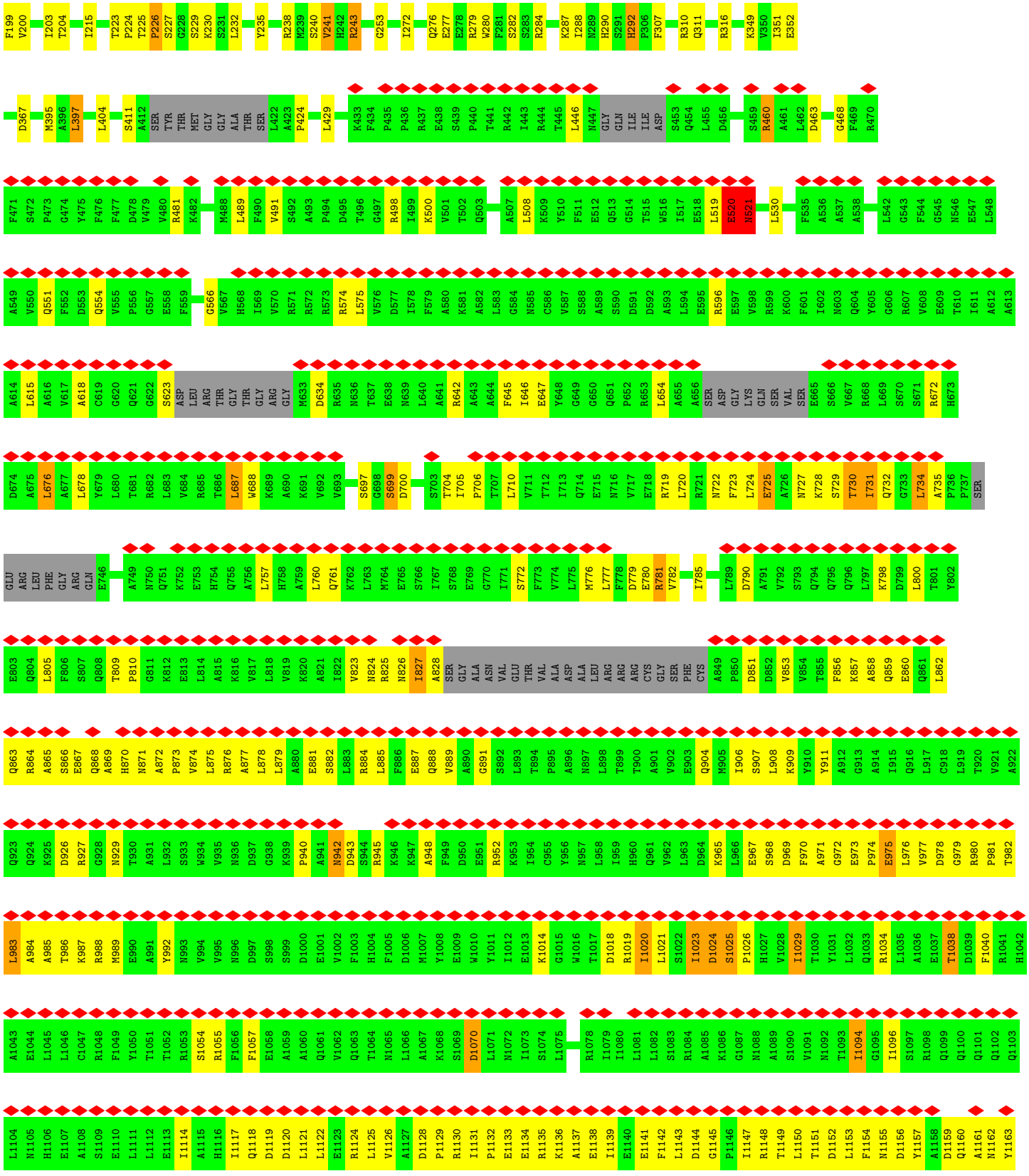




- Molecule 2: NUP155

Chain A2:




F199 V200 I203 T204 I215 T223 P224 T225 P226 S227 G228 S229 K230 S231 L232 Y235 R238 M239 S240 V241 H242 R243 G253 I272 Q276 E277 E278 R279 W280 F281 S282 S283 R284 K287 I288 N289 H290 S291 H292 P306 F307 R310 Q311 R316 K349 V350 I351 E352
D367 M395 A396 L397 L404 S411 A412 SER TYR THR MET GLY GLY ALA THR SER L422 A423 P424 L429 K433 F434 P435 P436 R437 E438 S439 P440 T441 R442 I443 R444 T445 L446 N447 GLY GLN ILE ILE ASP S453 Q454 L455 D456 S459 R460 A461 L462 D463 G468 F469 R470
F471 S472 P473 G474 Y475 F476 F477 D478 V479 V480 R481 K482 M488 L489 F490 V491 S492 A493 P494 D495 T496 G497 R498 I499 K500 V501 T502 Q503 A507 L508 K509 V510 F511 E512 Q513 G514 T515 W516 I517 E518 L519 E520 N521 L530 F535 A536 A537 A538 L542 G543 F544 G545 N546 E547 L548
A549 V550 Q551 F552 D553 Q554 V555 P556 G557 E558 F559 G566 V567 H568 I569 V570 R571 R572 R573 R574 L575 V576 D577 I578 F579 A580 K581 A582 L583 G584 N585 C586 V587 S588 A589 S590 D591 D592 A593 L594 E595 R596 E597 V598 R599 K600 F601 I602 N603 Q604 Y605 G606 R607 V608 E609 T610 I611 A612 A613
A614 L615 A616 V617 A618 C619 G620 Q621 G622 S623 ASP LEU ARG THR GLY THR GLY ARG GLY M633 D634 R635 N636 T637 E638 N639 L640 A641 R642 A643 A644 F645 I646 E647 Y648 G649 G650 Q651 P652 R653 L654 A655 A656 SER ASP GLY LYS GLN SER VAL SER E665 S666 V667 R668 L669 S670 S671 R672 H673
D674 A675 L676 A677 L678 Y679 L680 T681 R682 L683 V684 R685 T686 L687 W688 K689 A690 K691 V692 V693 S697 G698 S699 D700 S703 T704 I705 P706 T707 L710 V711 T712 I713 Q714 E715 N716 V717 E718 R719 L720 R721 N722 F723 L724 E725 A726 N727 K728 S729 T730 I731 Q732 G733 L734 A735 P736 P737 SER
GLU ARG LEU PHE GLY ARG GLN E746 A749 N750 Q751 K752 E753 H754 Q755 A756 L757 H758 A759 L760 Q761 K762 L763 M764 E765 S766 I767 S768 E769 G770 I771 S772 F773 V774 L775 M776 L777 F778 D779 E780 R781 V782 I785 L789 D790 A791 V792 S793 Q794 Q795 Q796 L797 K798 D799 L800 T801 Y802
E803 Q804 L805 F806 S807 Q808 T809 P810 G811 K812 E813 L814 A815 K816 V817 L818 V819 K820 A821 I822 V823 N824 R825 N826 I827 A828 SER GLY ALA ASN VAL GLU THR VAL ALA ASP ALA LEU ARG ARG ARG CYS GLY SER PHE CYS A849 P850 D851 D852 V853 V854 T855 F856 K857 A858 Q859 E860 Q861 L862
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Q923 Q924 K925 D926 R927 G928 N929 T930 A931 L932 S933 W934 V935 N936 D937 G938 K939 P940 A941 N942 D943 S944 R945 K946 K947 A948 F949 D950 E951 R952 K953 I954 C955 Y956 N957 L958 I959 H960 Q961 V962 L963 D964 K965 L966 E967 S968 D969 F970 A971 G972 E973 P974 E975 L976 V977 D978 G979 R980 P981 T982
L983 A984 A985 T986 K987 R988 M989 E990 A991 Y992 N993 V994 V995 N996 D997 S998 S999 D1000 E1001 V1002 F1003 H1004 F1005 D1006 M1007 Y1008 E1009 W1010 Y1011 I1012 E1013 K1014 G1015 W1016 T1017 D1018 R1019 I1020 L1021 S1022 I1023 D1024 S1025 P1026 H1027 V1028 I1029 T1030 Y1031 L1032 Q1033 R1034 L1035 A1036 E1037 T1038 D1039 F1040 R1041 H1042
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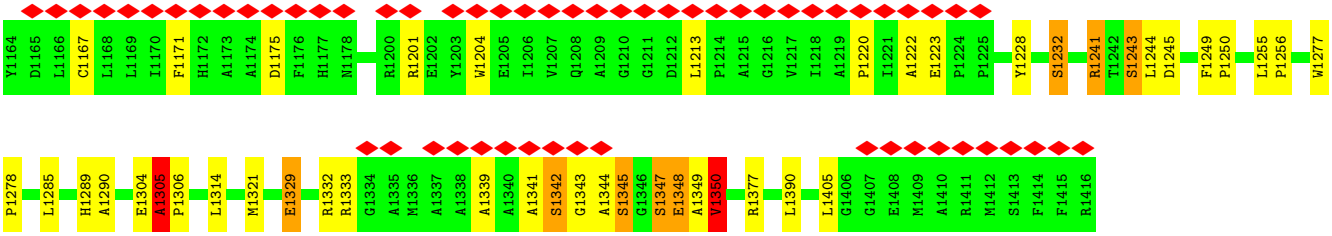
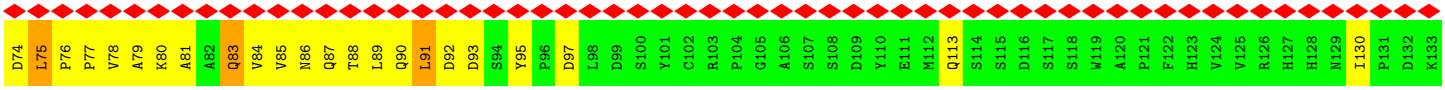
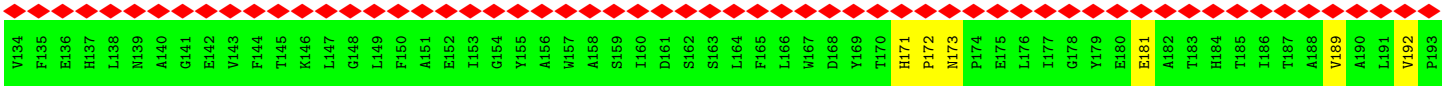
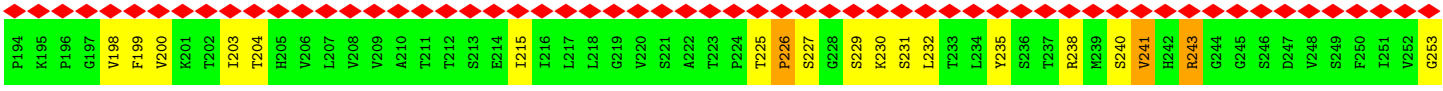


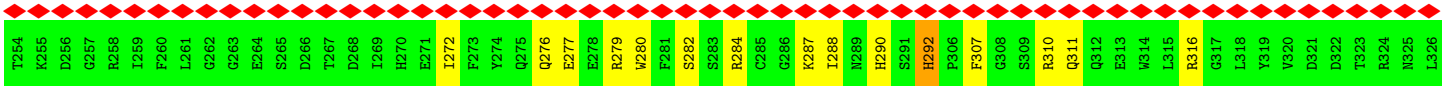
• Molecule 2: NUP155

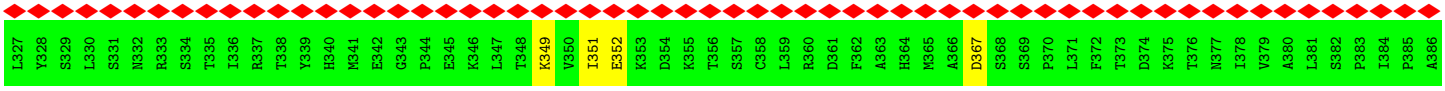
Chain A4:

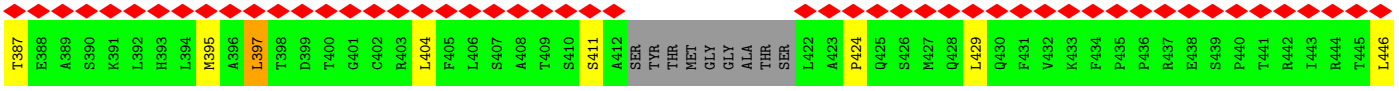


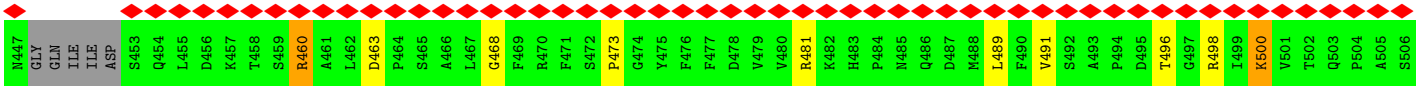


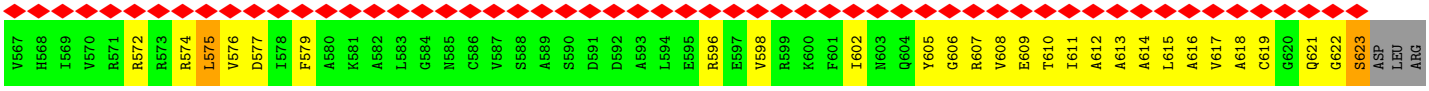


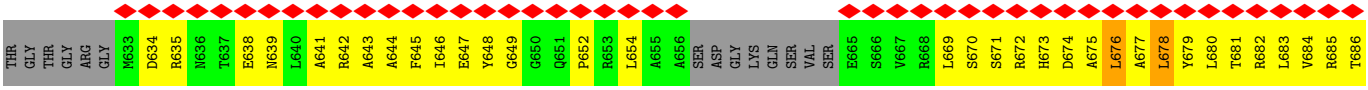


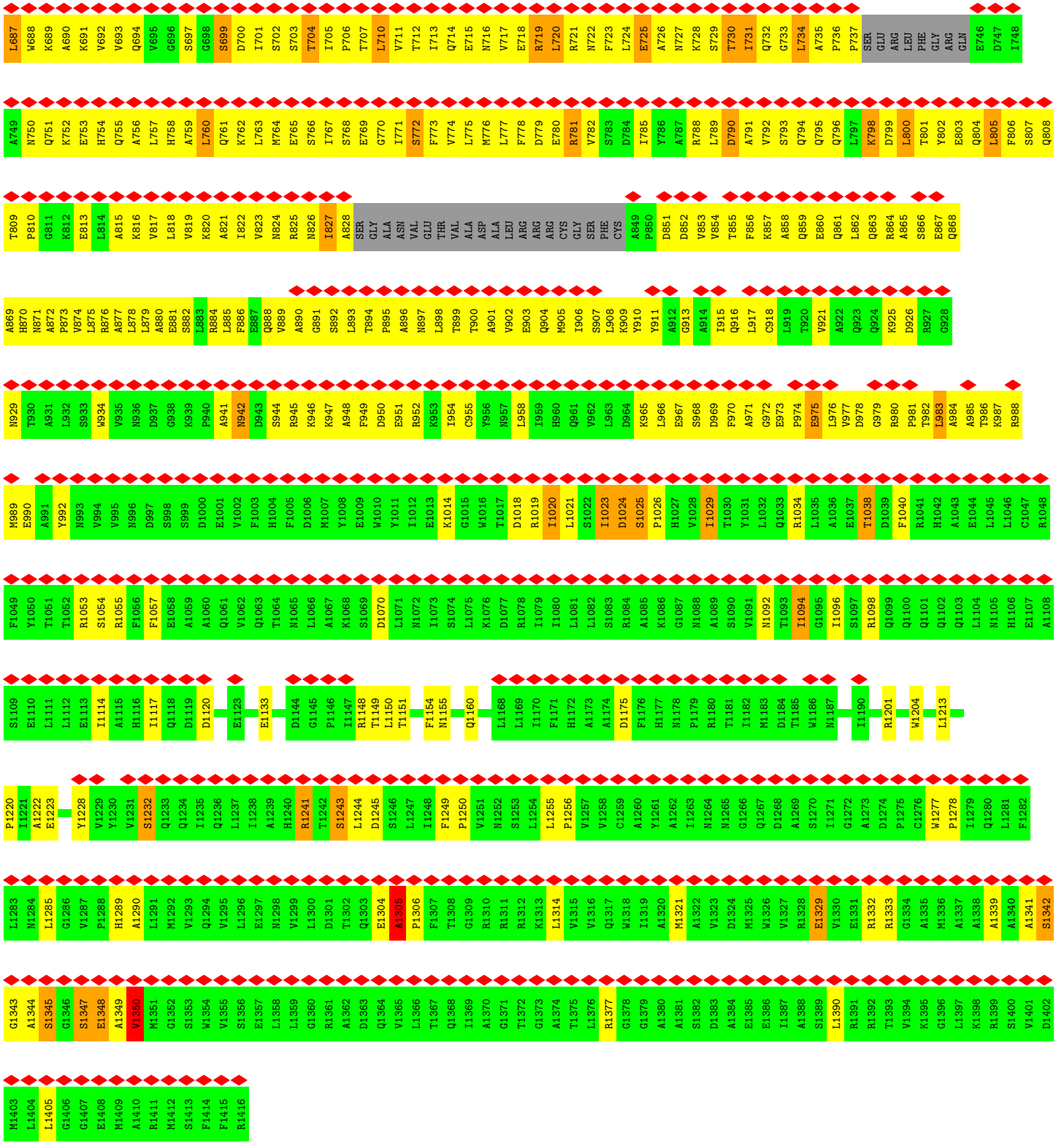






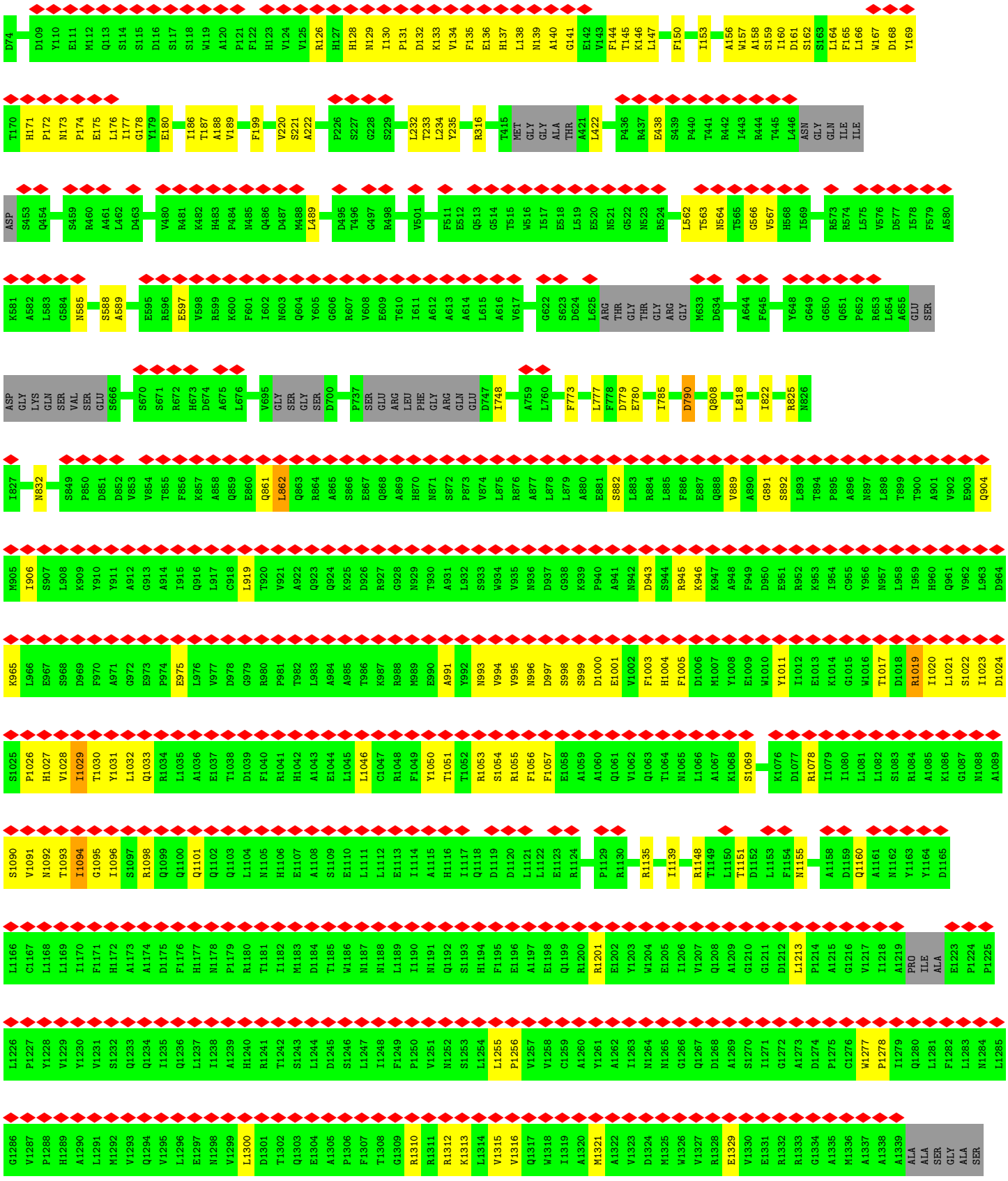






• Molecule 3: NUP155

Chain A5: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ASP S453 Q454 S459 R460 A461 L462 D463 V480 R481 K482 H483 P484 N485 Q486 D487 M488 L489 D495 T496 G497 R498 V501 F511 E512 Q513 G514 T515 W516 T517 E518 L519 E520 N521 G522 N523 R524 L562 T563 N564 T565 G566 V567 H568 I569 R573 R574 L575 V576 D577 I578 F579 A580
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K965 L966 E967 S968 D969 F970 A971 G972 E973 P974 E975 L976 V977 D978 G979 R980 P981 T982 I983 A984 A985 T986 K987 R988 N989 E990 A991 Y992 N993 V994 V995 N996 D997 S998 S999 D1000 E1001 V1002 F1003 H1004 F1005 D1006 M1007 Y1008 E1009 W1010 Y1011 I1012 E1013 K1014 G1015 W1016 T1017 D1018 R1019 I1020 L1021 S1022 I1023 D1024
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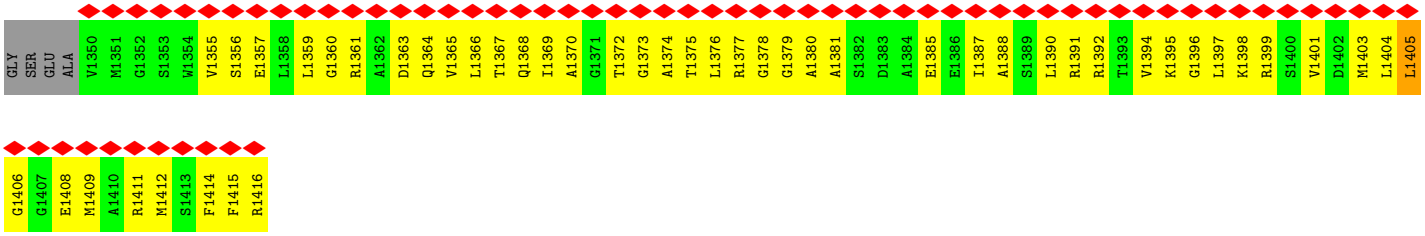
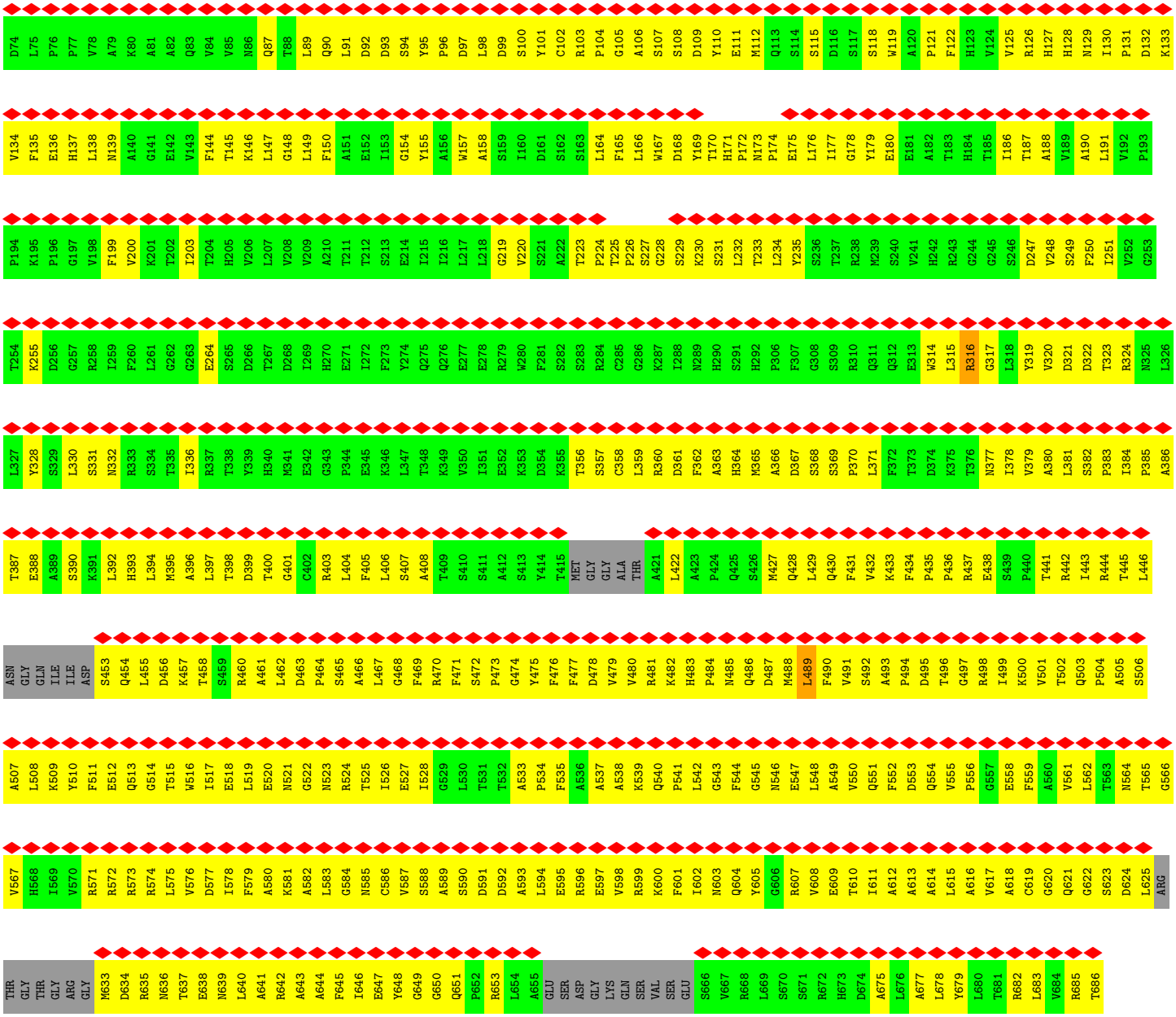
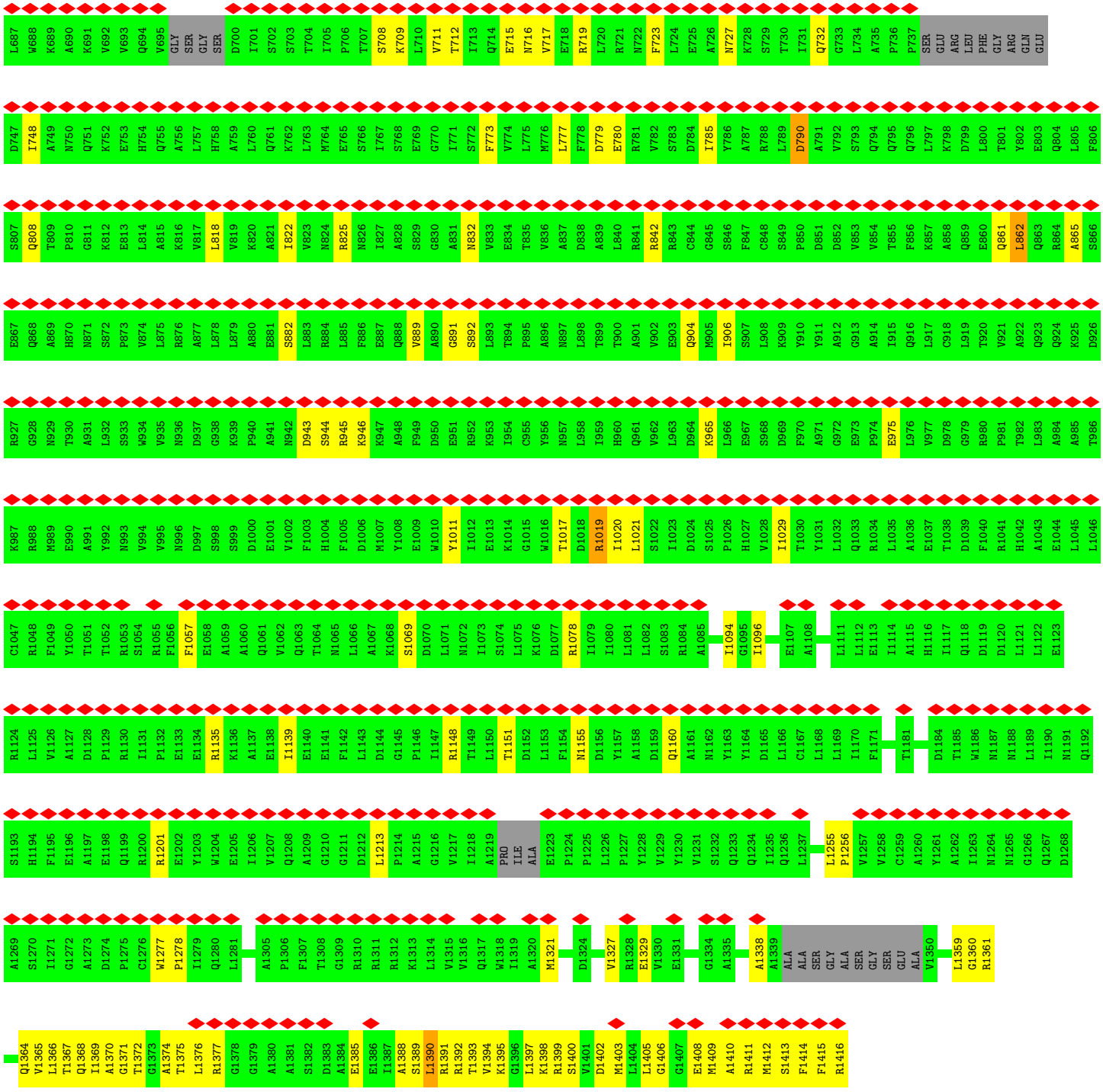


• Molecule 3: NUP155

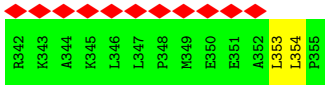
Chain A6:





• Molecule 4: NUP53 R3

Chain B1:

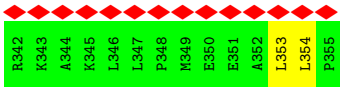


• Molecule 4: NUP53 R3

Chain B2:

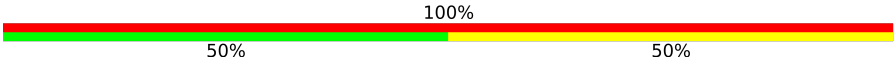
• Molecule 4: NUP53 R3

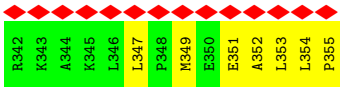
Chain B3:



• Molecule 4: NUP53 R3

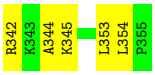
Chain B4:





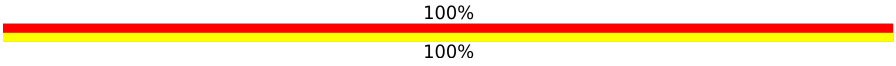
• Molecule 4: NUP53 R3

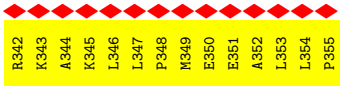
Chain B5:



• Molecule 4: NUP53 R3

Chain B6:



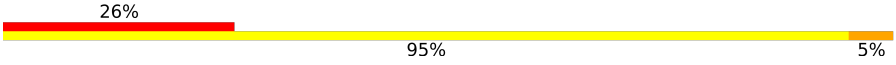


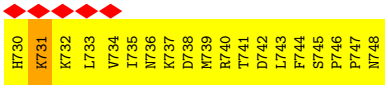
• Molecule 5: NUP98 R3

Chain C1:

• Molecule 5: NUP98 R3

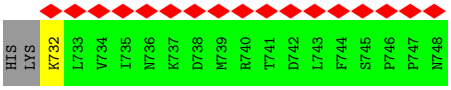
Chain C2:





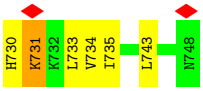
• Molecule 5: NUP98 R3

Chain C3:



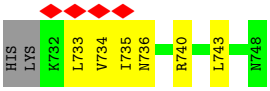
• Molecule 5: NUP98 R3

Chain C4:



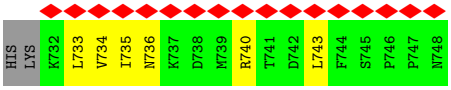
• Molecule 5: NUP98 R3

Chain C5:



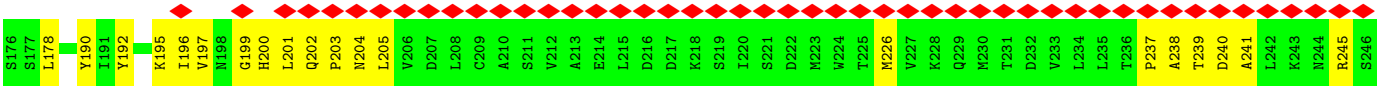
• Molecule 5: NUP98 R3

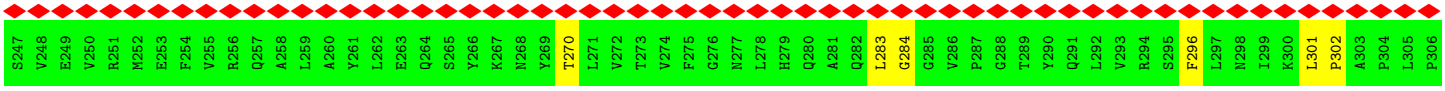
Chain C6:

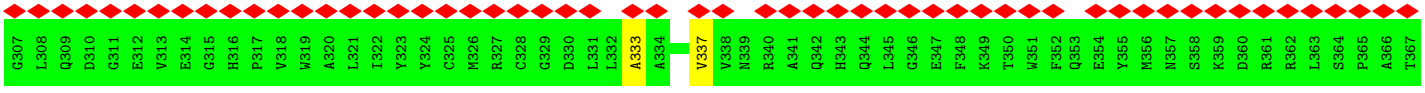


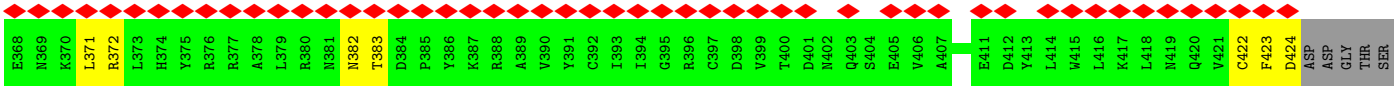
• Molecule 6: NUP93 SOL

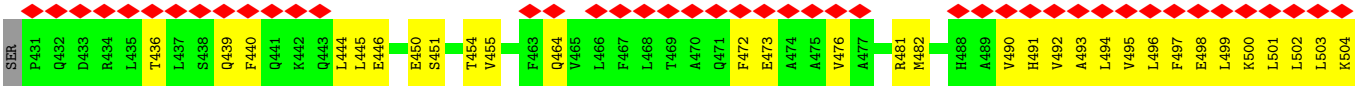
Chain D1:

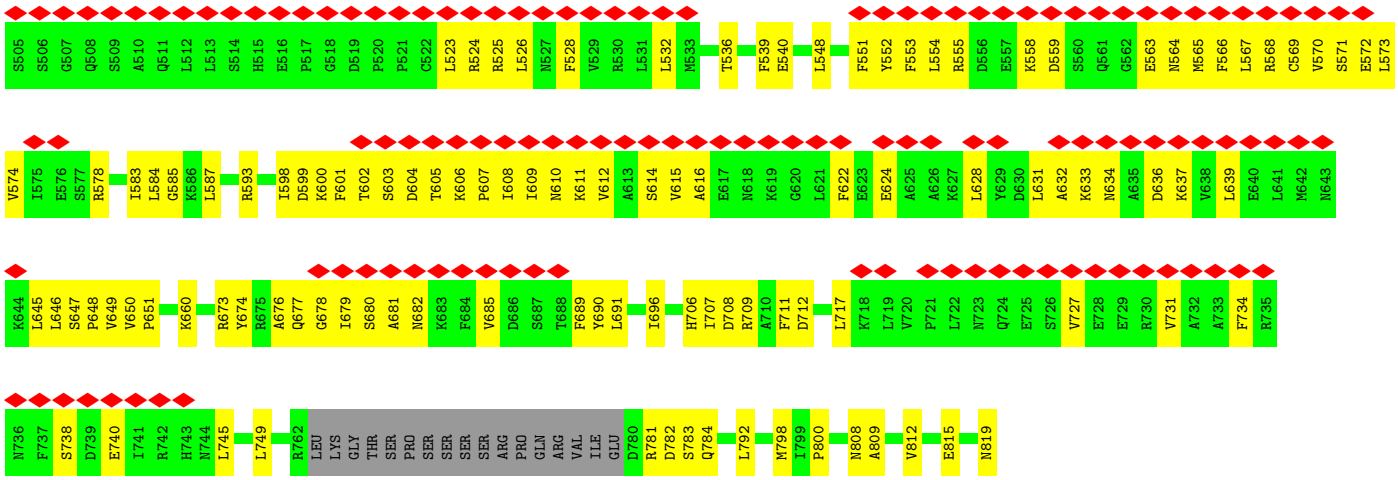






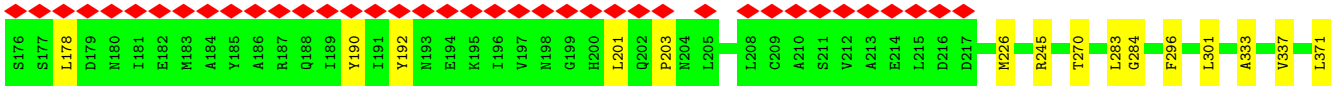


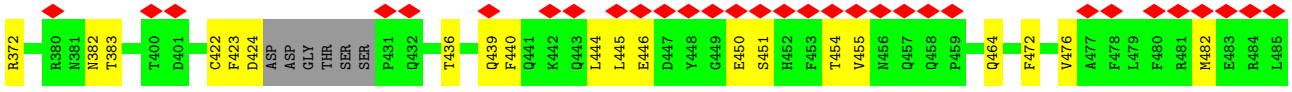


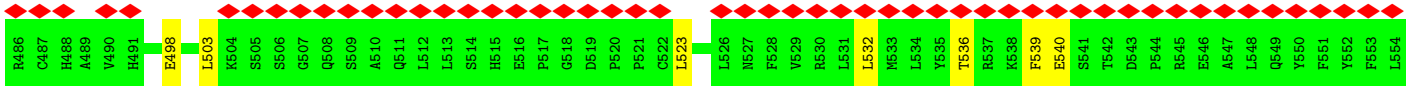


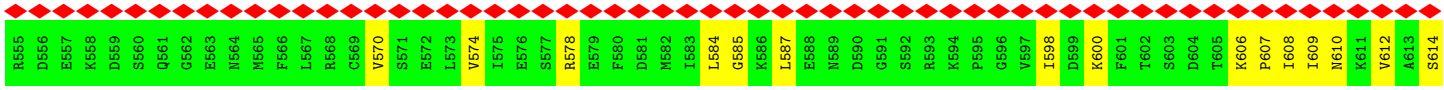
• Molecule 6: NUP93 SOL

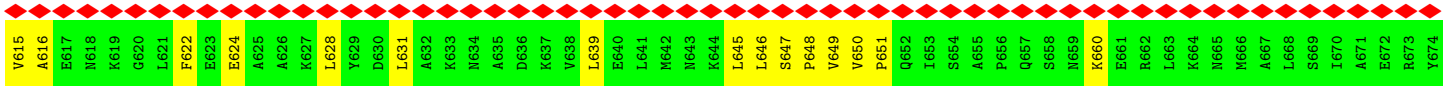
Chain D2:

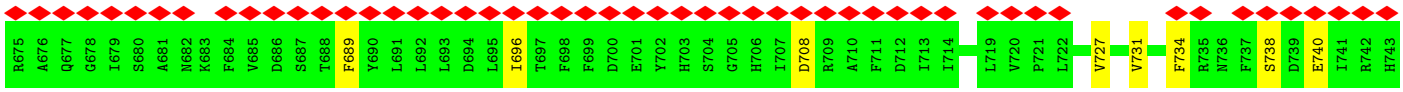


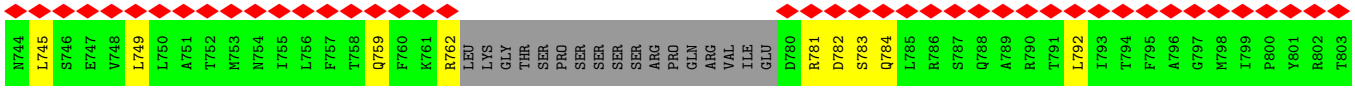


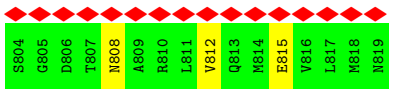






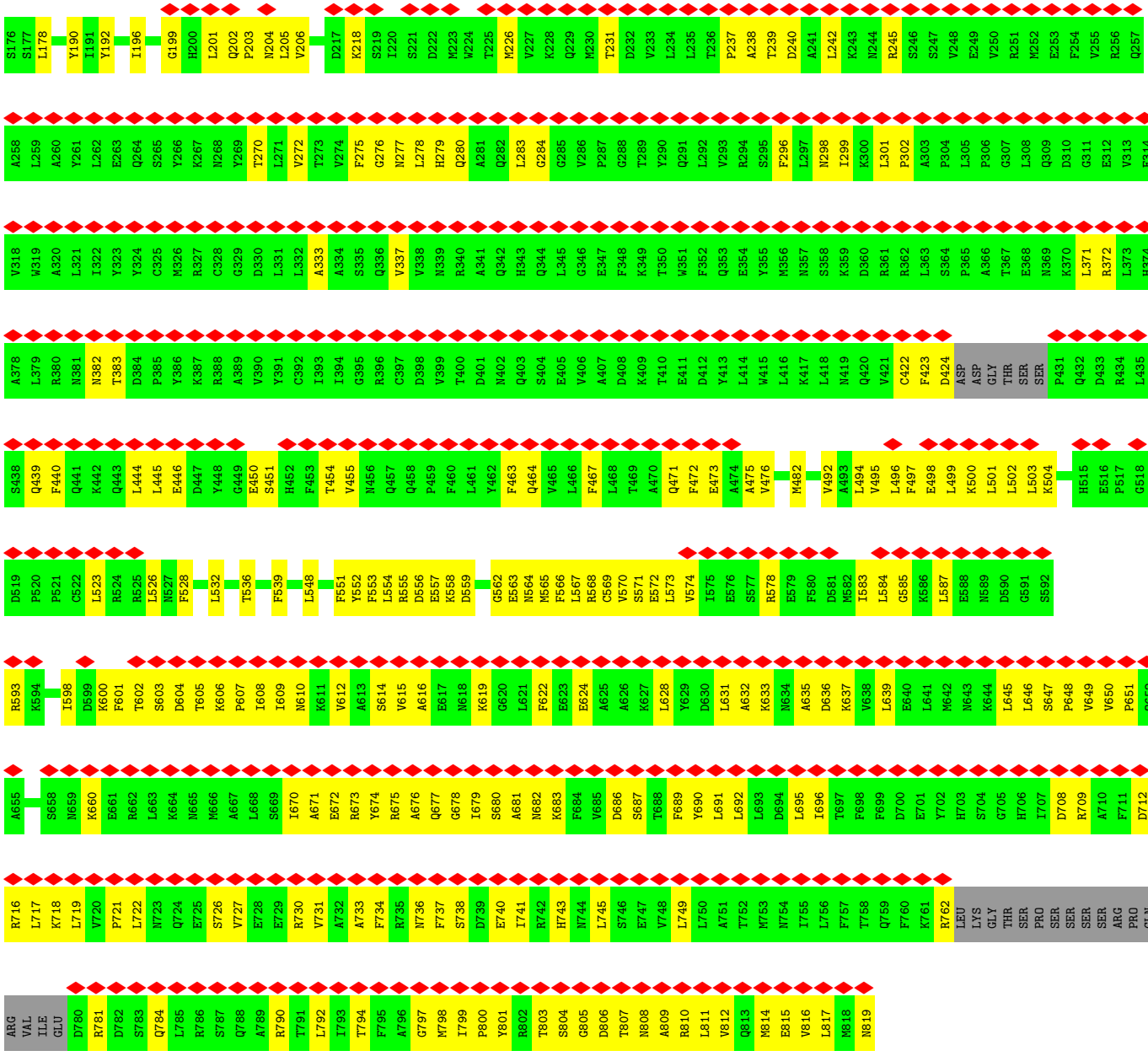






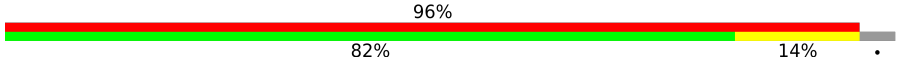
• Molecule 6: NUP93 SOL

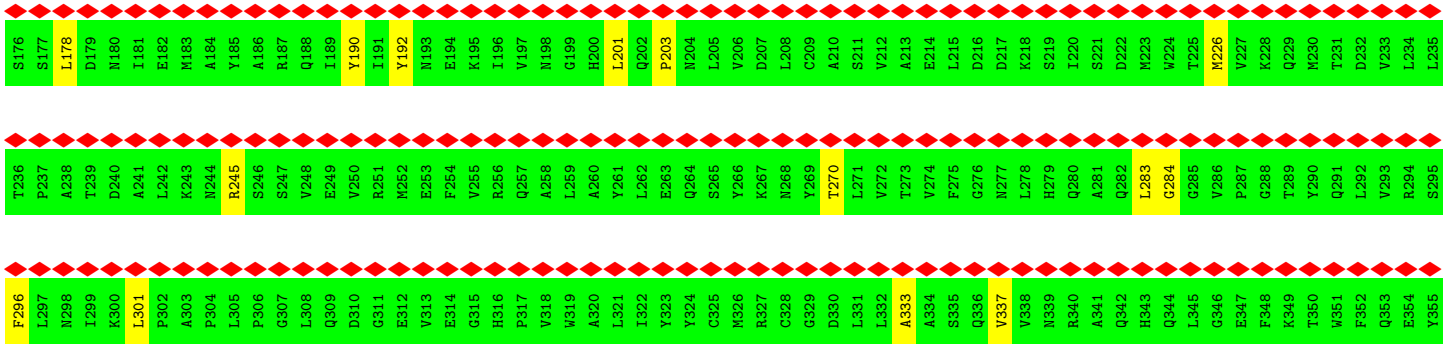
Chain D3:

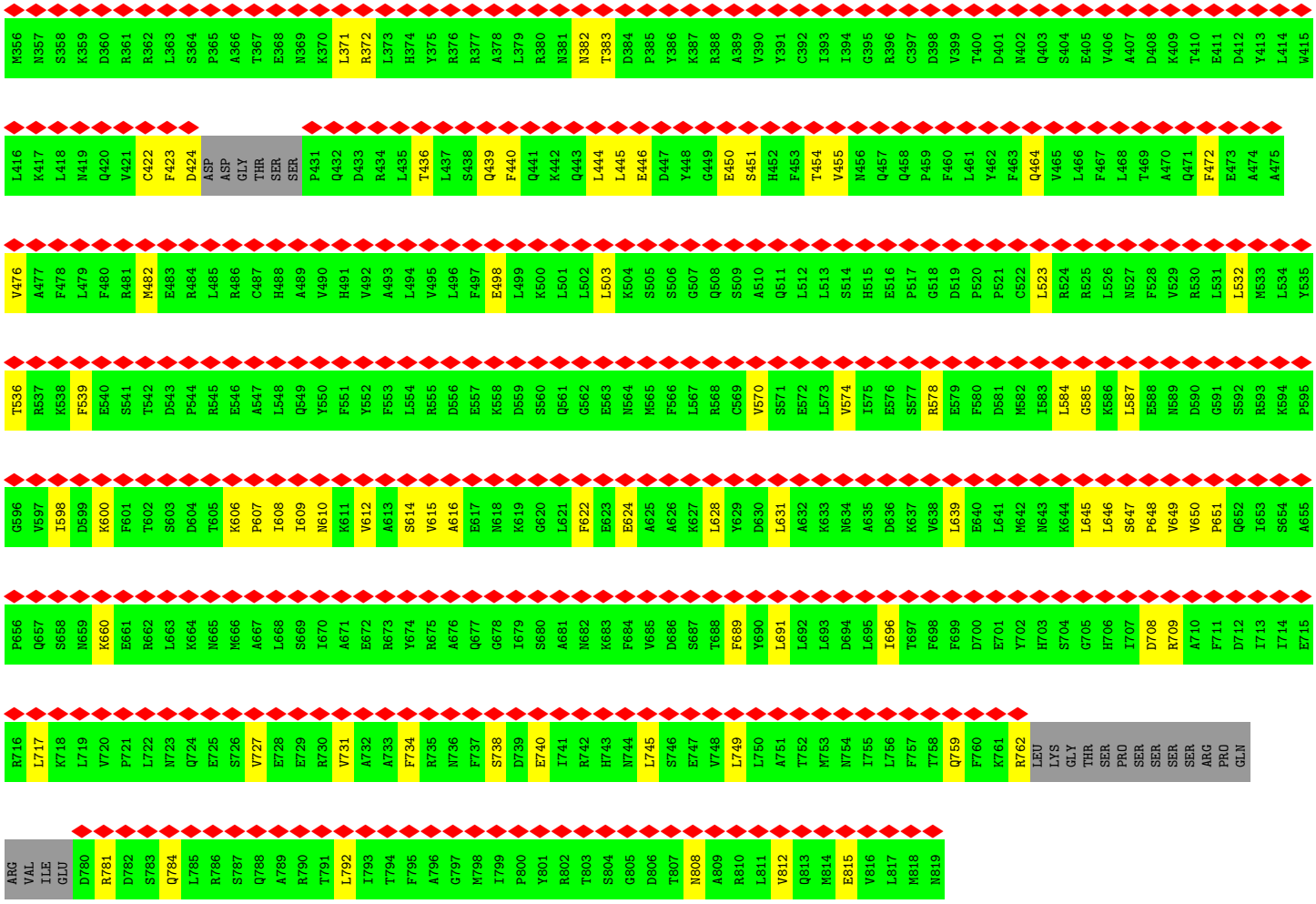


- Molecule 6: NUP93 SOL

Chain D4:

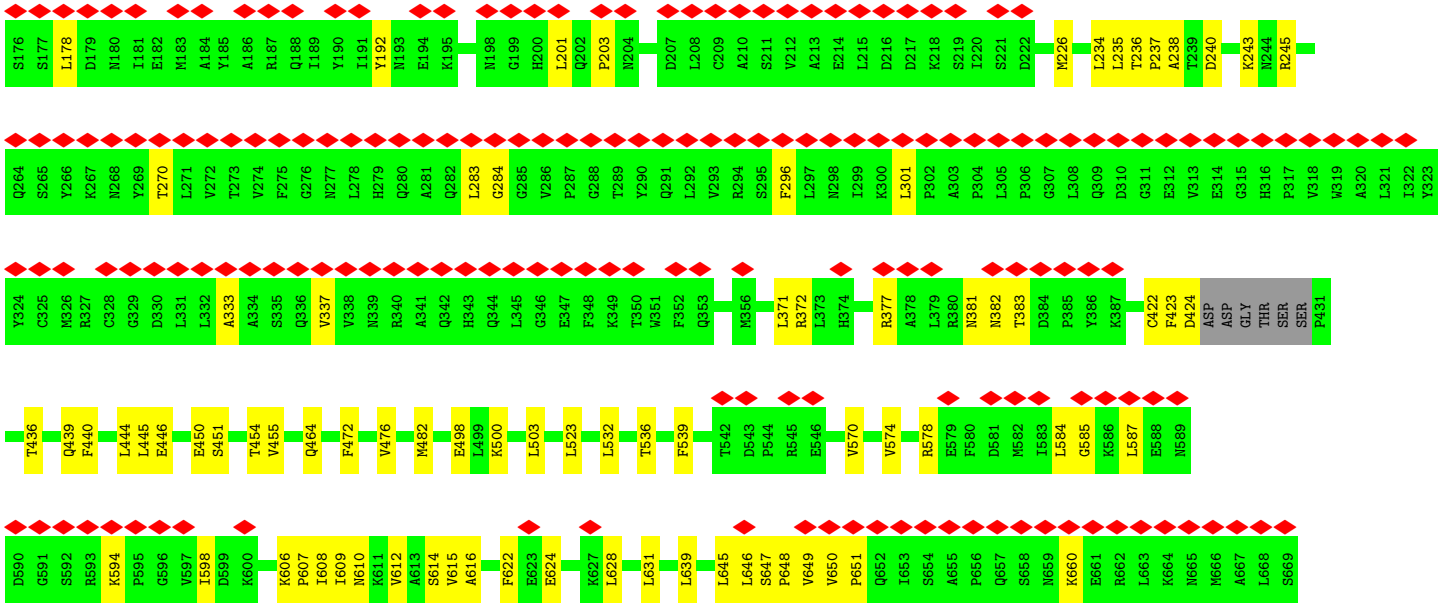


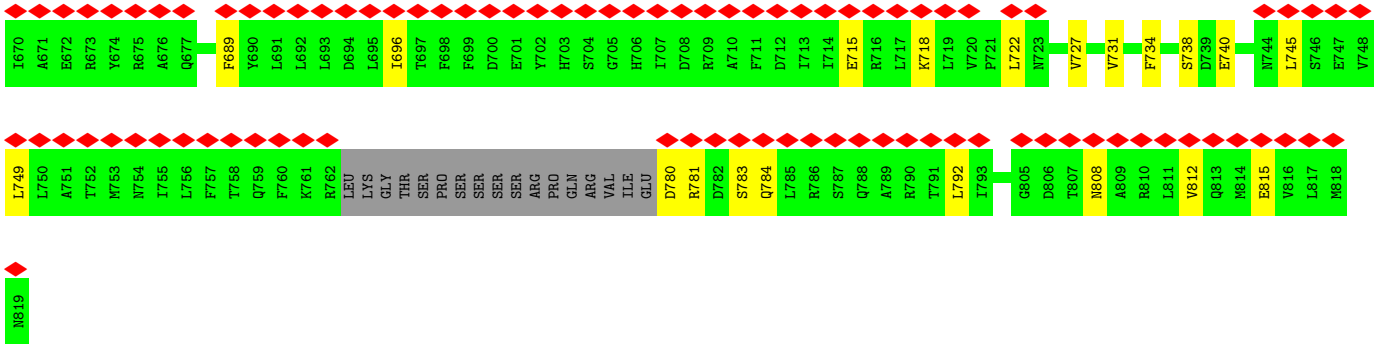




• Molecule 6: NUP93 SOL

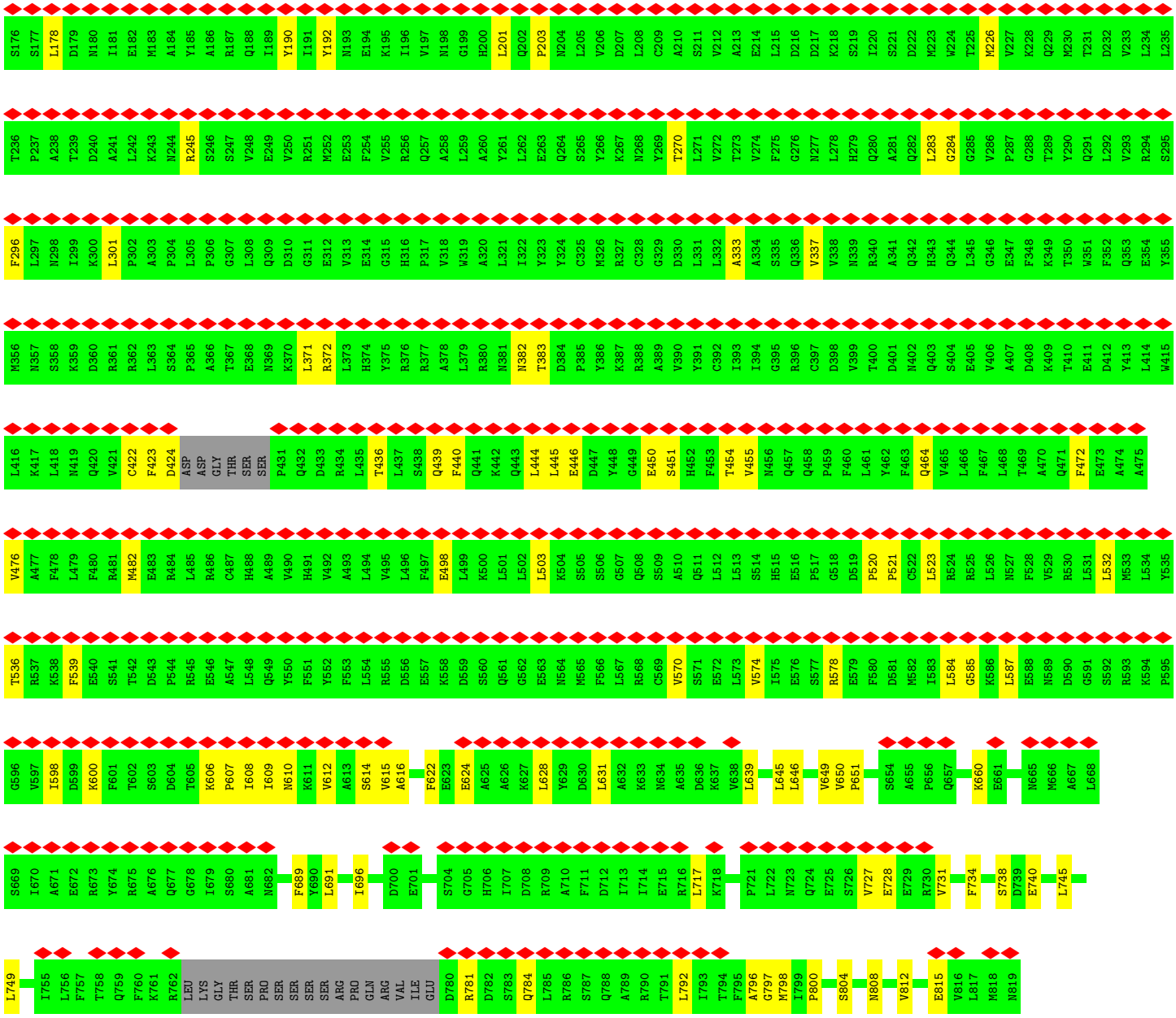
Chain D5:





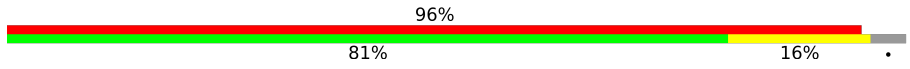
• Molecule 6: NUP93 SOL

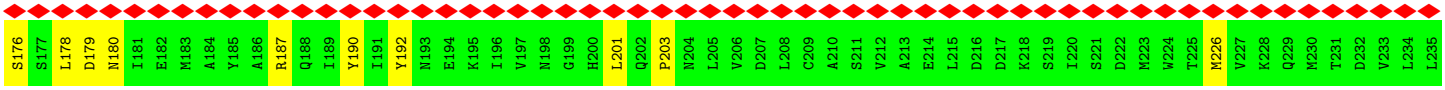
Chain D6:

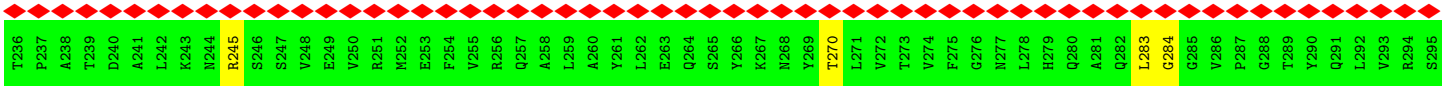


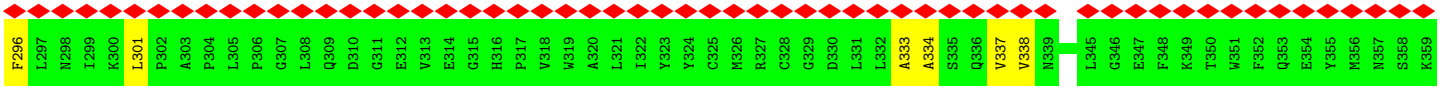
• Molecule 6: NUP93 SOL

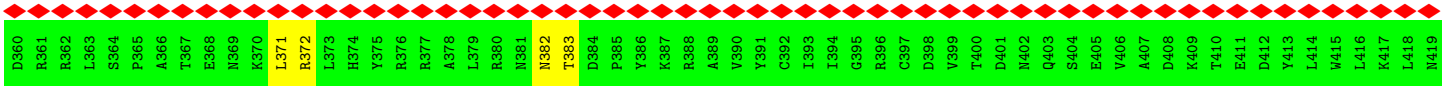
Chain D7:

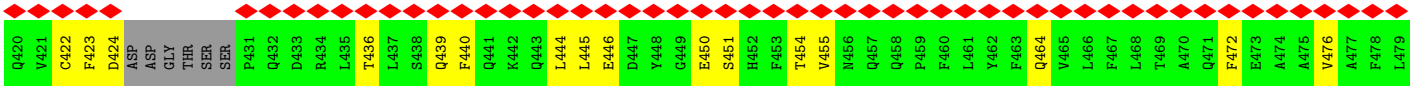


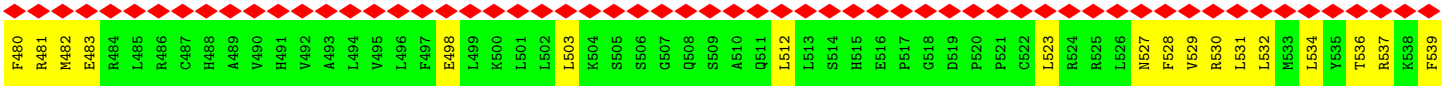


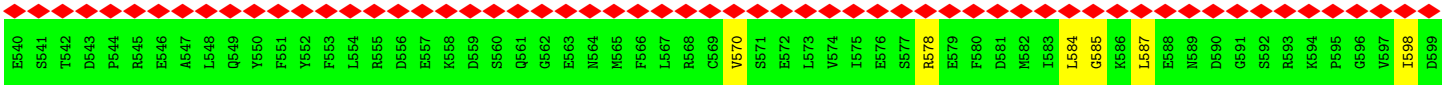


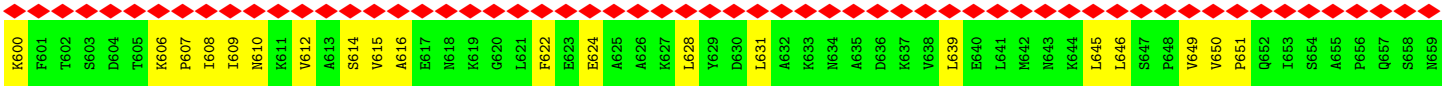


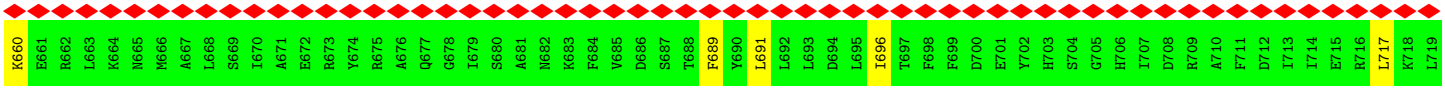


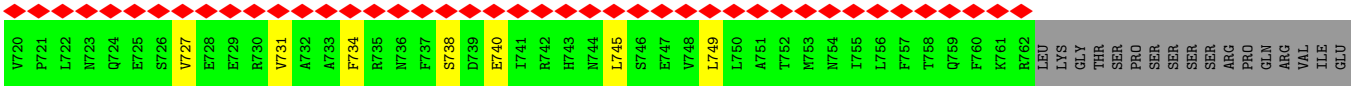


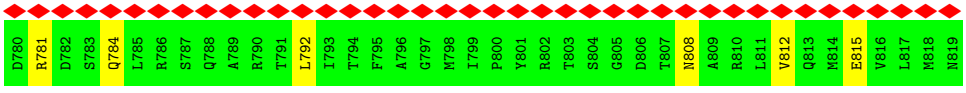






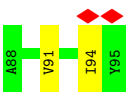






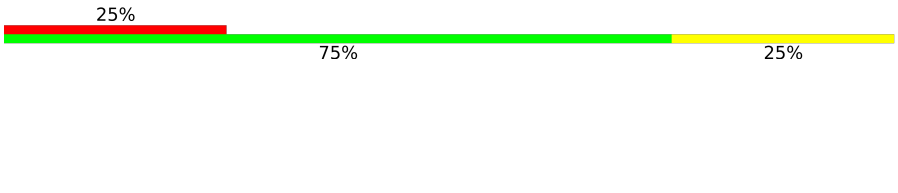
• Molecule 7: NUP53 R2

Chain E1:



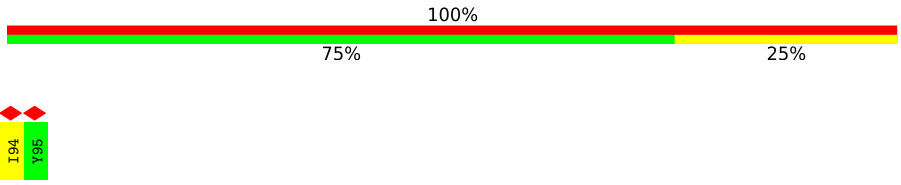
• Molecule 7: NUP53 R2

Chain E2:



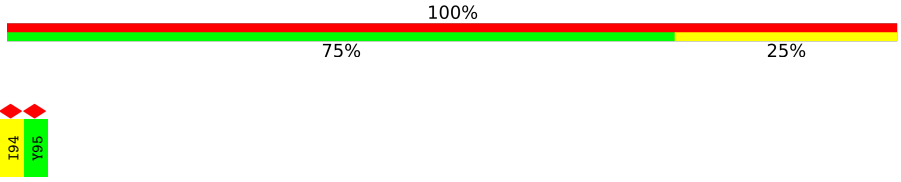
• Molecule 7: NUP53 R2

Chain E3:



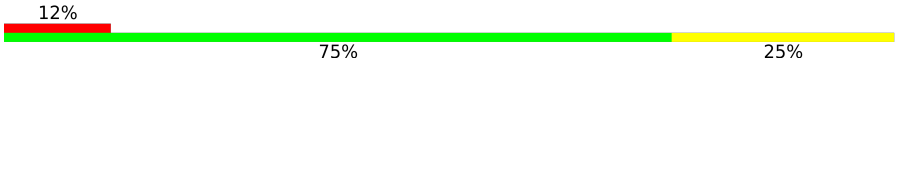
• Molecule 7: NUP53 R2

Chain E4:



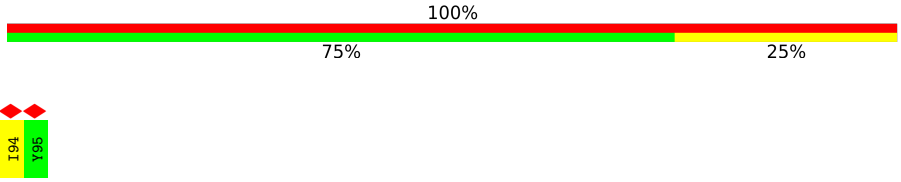
• Molecule 7: NUP53 R2

Chain E5:



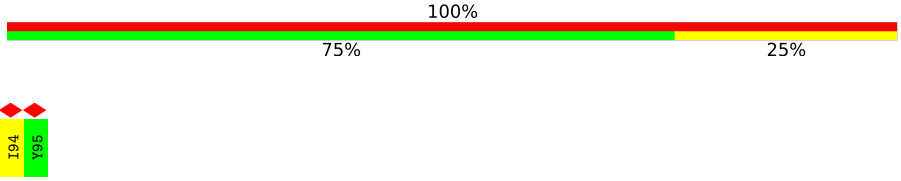
• Molecule 7: NUP53 R2

Chain E6:



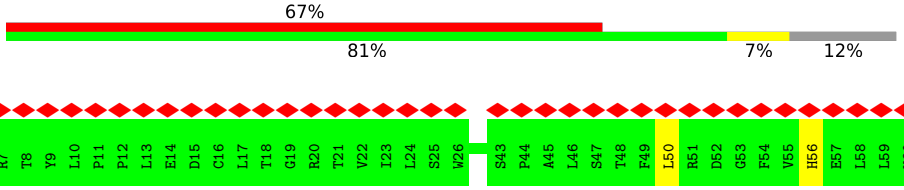
• Molecule 7: NUP53 R2

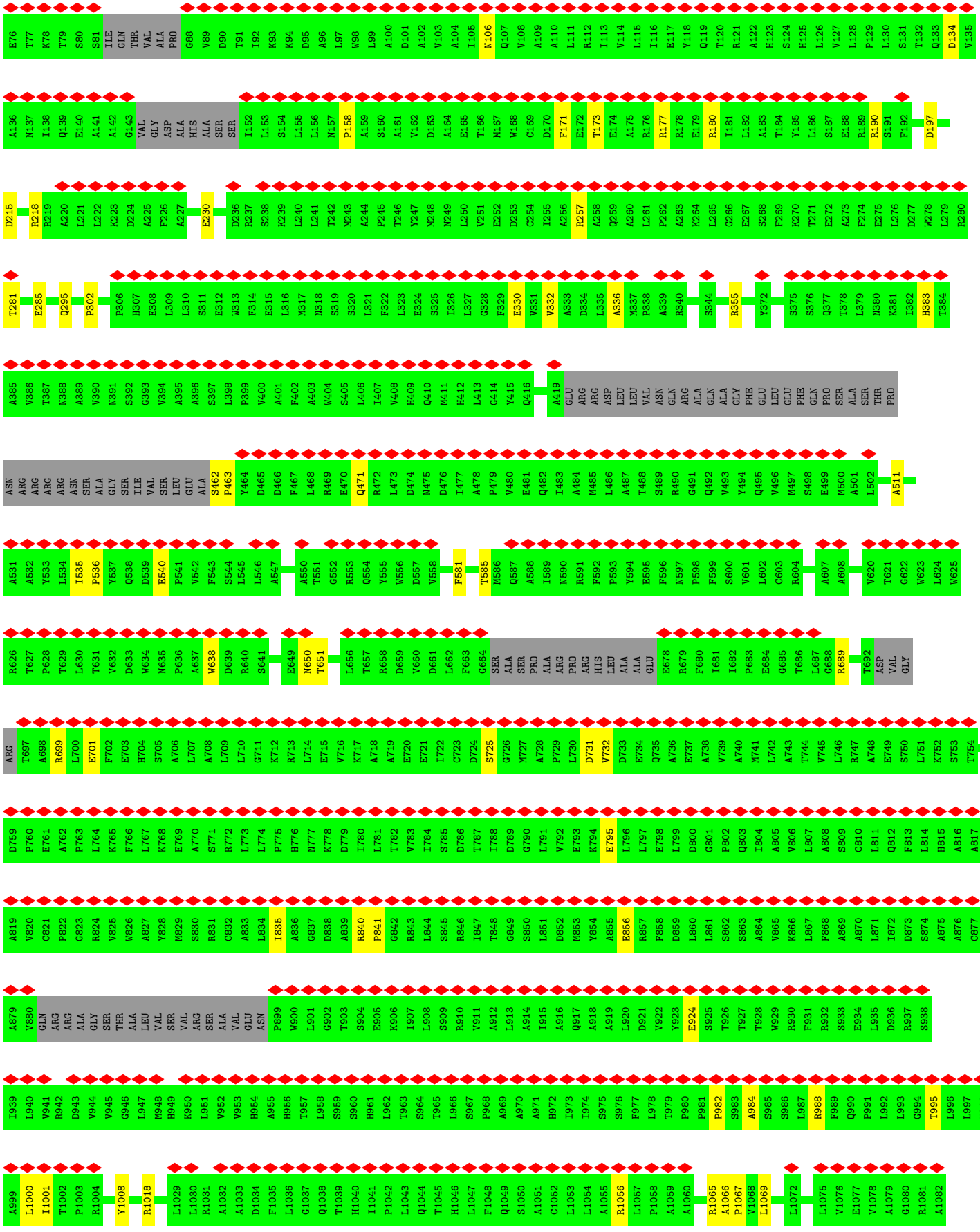
Chain E7:



• Molecule 8: NUP188

Chain F1:

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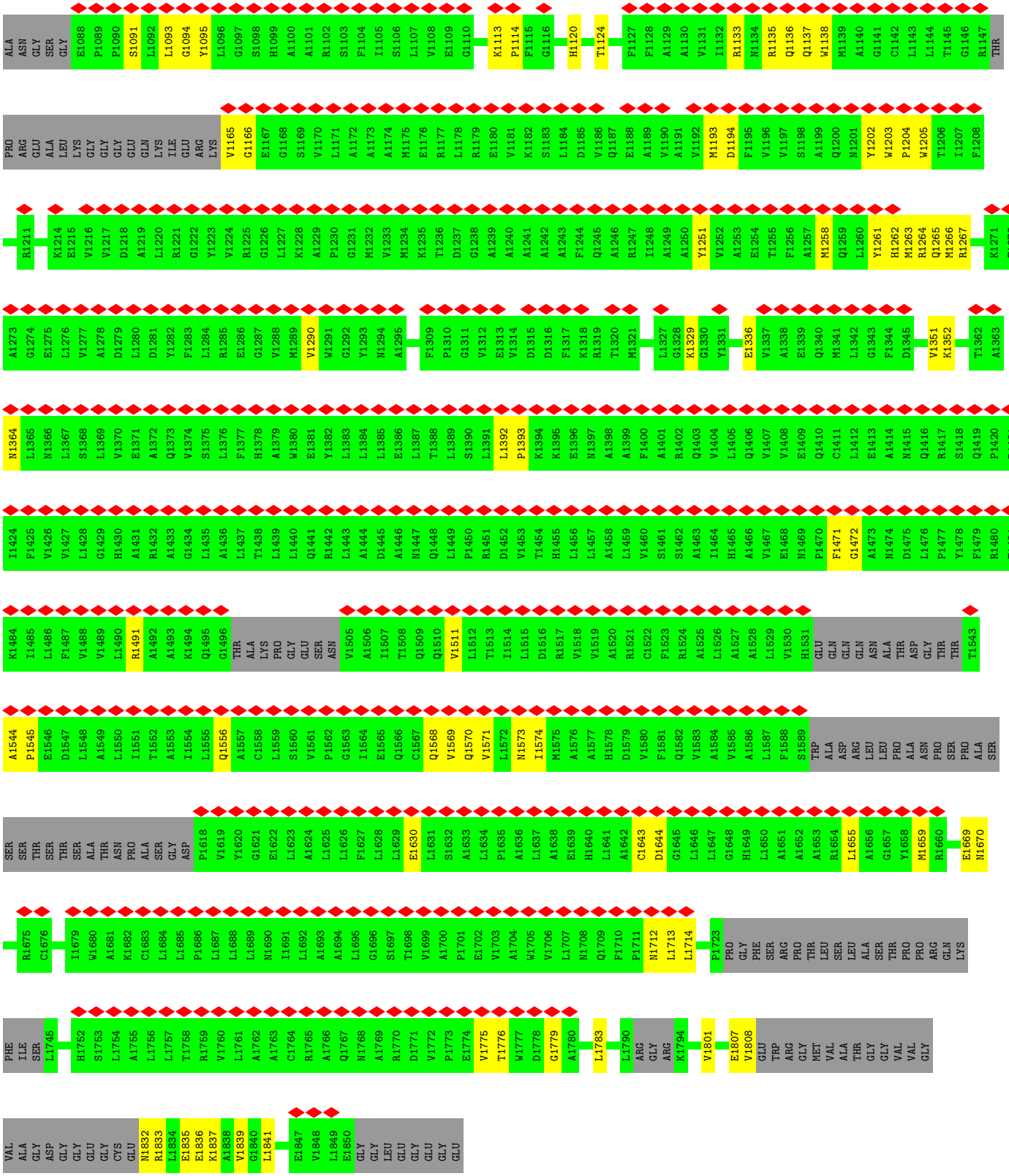
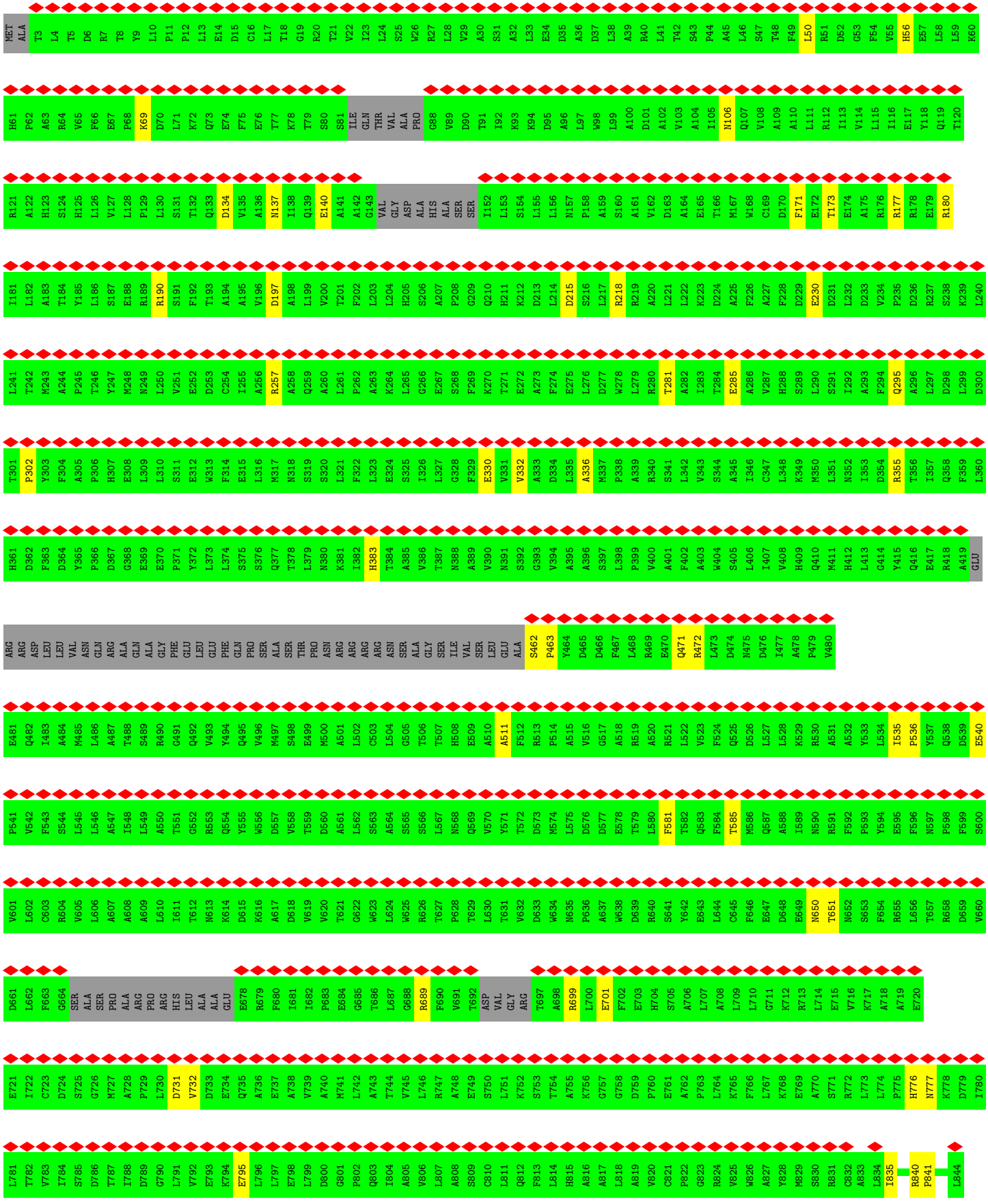
A136 N137 I138 Q139 E140 A141 A142 G143 VAL GLY ASP ALA HIS ALA SER SER T152 L153 S154 L155 L156 N157 P158 A159 S160 A161 V162 D163 A164 E165 T166 M167 W168 C169 D170 F171 E172 T173 E174 A175 R176 R177 R178 E179 R180 I181 L182 A183 T184 Y185 L186 S187 E188 R189 R190 S191 F192 D197
D215 R218 R219 A220 L221 L222 K223 D224 A225 F226 A227 E230 D236 R237 S238 K239 L240 L241 T242 M243 A244 P245 T246 Y247 M248 N249 L250 V251 E252 D253 C254 I255 A256 R257 A258 Q259 A260 L261 P262 A263 K264 L265 G266 E267 S268 F269 K270 T271 E272 A273 F274 E275 L276 D277 W278 L279 R280
T281 E285 Q295 P302 P306 H307 E308 L309 L310 S311 E312 W313 F314 E315 L316 M317 N318 S319 S320 L321 F322 L323 E324 S325 I326 L327 G328 F329 E330 V331 V332 A333 D334 L335 A336 M337 P338 A339 R340 S344 R355 Y372 S375 S376 Q377 T378 L379 N380 K381 I382 H383 T384
A385 V386 T387 N388 A389 V390 N391 S392 G393 V394 A395 A396 S397 L398 P399 V400 A401 F402 A403 W404 S405 L406 I407 V408 H409 Q410 M411 H412 L413 G414 Y415 Q416 A419 GLU ARG ARG ASP LEU LEU VAL ASN GLN ARG ALA GLN ALA GLY PHE GLU LEU GLU PHE GLN PRO SER ALA SER THR PRO
ASN ARG ARG ARG ARG ASN SER ALA GLY SER ILE VAL SER LEU GLU ALA S462 P463 Y464 D465 D466 F467 L468 R469 E470 Q471 R472 L473 D474 N475 D476 I477 A478 P479 V480 E481 Q482 I483 A484 M485 L486 A487 T488 S489 R490 G491 Q492 V493 Y494 Q495 V496 M497 S498 E499 M500 A501 L502 A511
A531 A532 Y533 L534 I535 P536 Y537 Q538 D539 E540 P541 V542 F543 S544 L545 L546 A547 A550 T551 G552 R553 Q554 Y555 W556 D557 V558 F581 T585 M586 Q587 A588 I589 N590 R591 F592 P593 Y594 E595 F596 N597 P598 F599 S600 V601 L602 C603 R604 A607 A608 V620 T621 G622 W623 L624 W625
R626 T627 P628 T629 L630 T631 V632 D633 W634 N635 P636 A637 W638 D639 R640 S641 E649 N650 T651 L656 T657 R658 D659 V660 D661 L662 F663 G664 SER ALA SER PRO ALA ARG PRO ARG HIS LEU ALA ALA GLU E678 R679 F680 I681 I682 P683 E684 G685 T686 L687 G688 R689 T692 ASP VAL GLY
ARG T697 A698 R699 L700 E701 F702 E703 H704 S705 A706 L707 A708 L709 L710 G711 K712 R713 L714 E715 V716 K717 A718 A719 E720 E721 I722 C723 D724 S725 G726 M727 A728 P729 L730 D731 V732 D733 E734 Q735 A736 E737 A738 V739 A740 M741 L742 A743 T744 V745 L746 R747 A748 E749 S750 L751 K752 S753 T754
D759 P760 E761 A762 P763 L764 K765 F766 L767 K768 E769 A770 S771 R772 L773 L774 P775 H776 N777 K778 D779 I780 L781 T782 V783 I784 S785 D786 T787 I788 D789 G790 L791 V792 E793 K794 E795 L796 L797 E798 L799 D800 G801 P802 Q803 I804 A805 V806 L807 A808 S809 C810 L811 Q812 F813 L814 H815 A816 A817 L818
A819 V820 C821 P822 G823 R824 V825 W826 A827 Y828 M829 S830 R831 C832 A833 L834 I835 A836 G837 D838 A839 R840 P841 G842 R843 L844 S845 R846 I847 T848 G849 S850 L851 D852 M853 Y854 A855 E856 R857 F858 D859 L860 L861 S862 S863 A864 V865 K866 L867 F868 A869 A870 L871 I872 D873 S874 A875 A876 C877 S878
A879 V880 GLN ARG ARG ALA GLY SER THR ALA LEU VAL SER VAL ARG SER ALA VAL GLU ASN P899 W900 L901 G902 T903 S904 E905 K906 I907 L908 S909 R910 V911 A912 L913 A914 I915 A916 Q917 A918 A919 L920 D921 V922 Y923 E924 S925 T926 T927 T928 W929 R930 F931 R932 S933 E934 L935 D936 R937 S938
I939 L940 V941 R942 D943 V944 V945 G946 L947 M948 H949 K950 L951 V952 V953 H954 A955 H956 T957 L958 S959 S960 H961 L962 T963 S964 T965 L966 S967 P968 A969 A970 A971 H972 I973 I974 S975 S976 F977 L978 T979 P980 P981 P982 S983 A984 S985 S986 L987 R988 F989 Q990 P991 L992 L993 G994 T995 L996 L997 V998
A999 L1000 I1001 T1002 P1003 R1004 Y1008 R1018 L1029 L1030 R1031 A1032 A1033 D1034 F1035 L1036 G1037 Q1038 T1039 H1040 I1041 P1042 L1043 Q1044 T1045 H1046 L1047 F1048 Q1049 S1050 A1051 C1052 L1053 L1054 A1055 R1056 L1057 P1058 A1059 A1060 R1065 A1066 P1067 Y1068 L1069 L1072 L1075 V1076 E1077 V1078 A1079 G1080 R1081 A1082



• Molecule 8: NUP188

Chain F2: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H61 P62 A63 R64 V65 F66 E67 P68 K69 D70 L71 K72 Q73 E74 F75 E76 T77 K78 T79 S80 S81 ILE GLN THR VAL ALA PRO G88 V89 D90 T91 I92 K93 K94 D95 A96 L97 W98 L99 A100 D101 A102 V103 A104 I105 N106 Q107 V108 A109 A110 L111 R112 I113 V114 L115 I116 E117 Y118 Q119 T120
R121 A122 H123 S124 H125 L126 V127 L128 P129 L130 S131 T132 Q133 D134 V135 A136 N137 I138 Q139 E140 A141 A142 G143 VAL GLY ASP ALA HIS ALA SER SER I152 L153 S154 L155 L156 N157 P158 A159 S160 A161 V162 D163 A164 E165 T166 M167 W168 C169 D170 F171 E172 T173 E174 A175 R176 R177 R178 E179 R180
I181 L182 A183 T184 Y185 L186 S187 E188 R189 R190 S191 F192 T193 A194 A195 V196 D197 A198 L199 V200 T201 F202 L203 L204 H205 S206 A207 P208 G209 Q210 H211 K212 D213 L214 D215 S216 L217 R218 R219 A220 L221 L222 K223 D224 A225 F226 A227 F228 D229 E230 D231 L232 D233 V234 P235 D236 R237 S238 K239 L240
L241 T242 M243 A244 P245 T246 Y247 M248 N249 L250 V251 E252 D253 C254 I255 A256 R257 A258 Q259 A260 L261 P262 A263 K264 L265 G266 E267 S268 F269 K270 T271 E272 A273 F274 E275 L276 D277 W278 L279 R280 T281 A282 I283 T284 E285 A286 V287 H288 S289 L290 S291 T292 A293 F294 Q295 A296 L297 D298 L299 D300
T301 P302 Y303 F304 A305 P306 H307 E308 L309 L310 S311 E312 W313 F314 E315 L316 M317 N318 S319 S320 L321 F322 L323 E324 S325 I326 L327 G328 F329 E330 V331 V332 A333 D334 L335 A336 M337 P338 A339 R340 S341 L342 V343 S344 A345 I346 C347 L348 K349 M350 L351 N352 I353 D354 R355 T356 I357 Q358 F359 L360
H361 D362 F363 D364 Y365 P366 D367 G368 E369 E370 P371 Y372 L373 L374 S375 S376 Q377 T378 L379 N380 K381 I382 H383 T384 A385 V386 T387 N388 A389 V390 N391 S392 G393 V394 A395 A396 S397 L398 P399 V400 A401 F402 A403 W404 S405 L406 I407 V408 H409 Q410 M411 H412 L413 G414 Y415 Q416 E417 R418 A419 GLU
ARG ARG ASP LEU LEU VAL ASN GLN ARG ALA GLN ALA GLY PHE GLU LEU GLU PHE GLN PRO SER ALA SER THR PRO ASN ARG ARG ARG ARG ASN SER ALA GLY SER ILE VAL SER LEU GLU ALA S462 P463 Y464 D465 D466 F467 L468 R469 E470 Q471 R472 L473 D474 N475 D476 I477 A478 P479 V480
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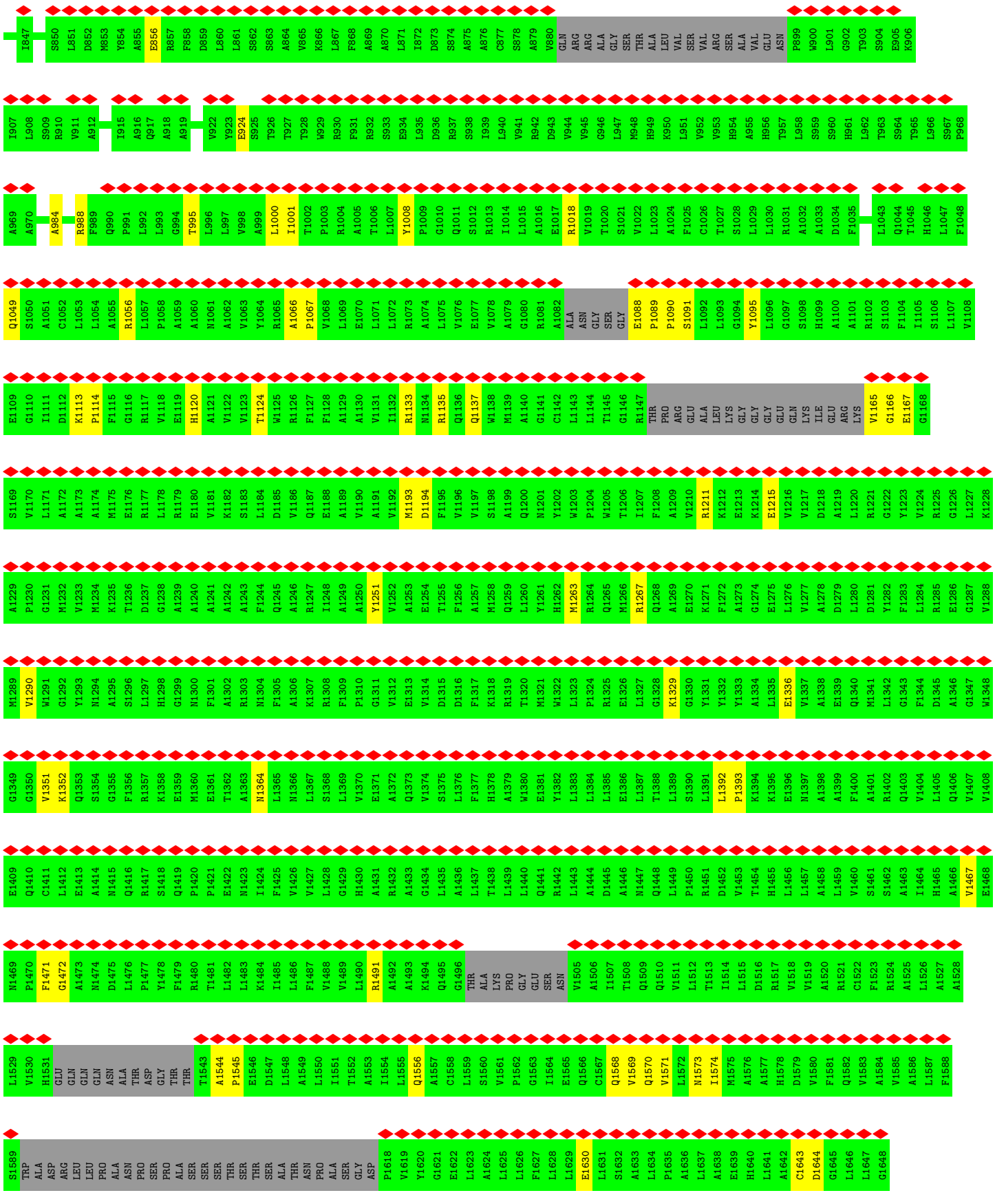
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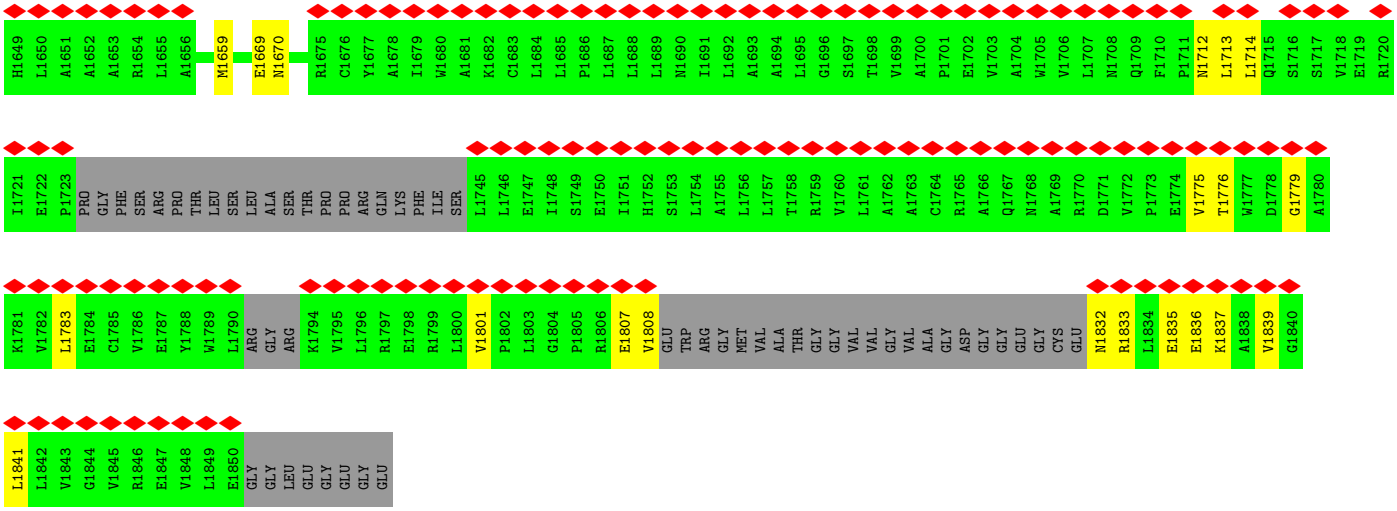

- Molecule 9: NUP93 R2

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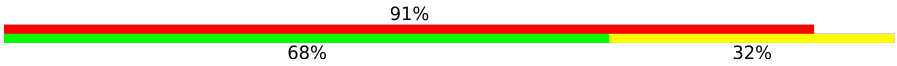

- Molecule 9: NUP93 R2

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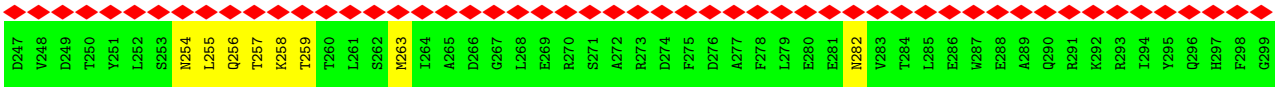

- Molecule 10: NUP98 R2

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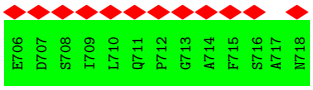

- Molecule 10: NUP98 R2

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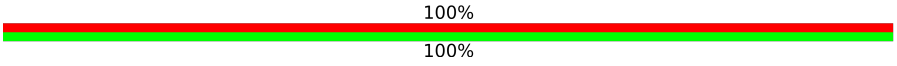

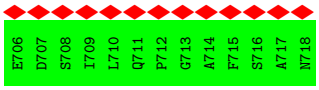

- Molecule 11: NUP205

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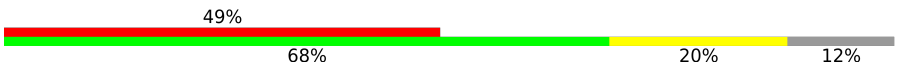

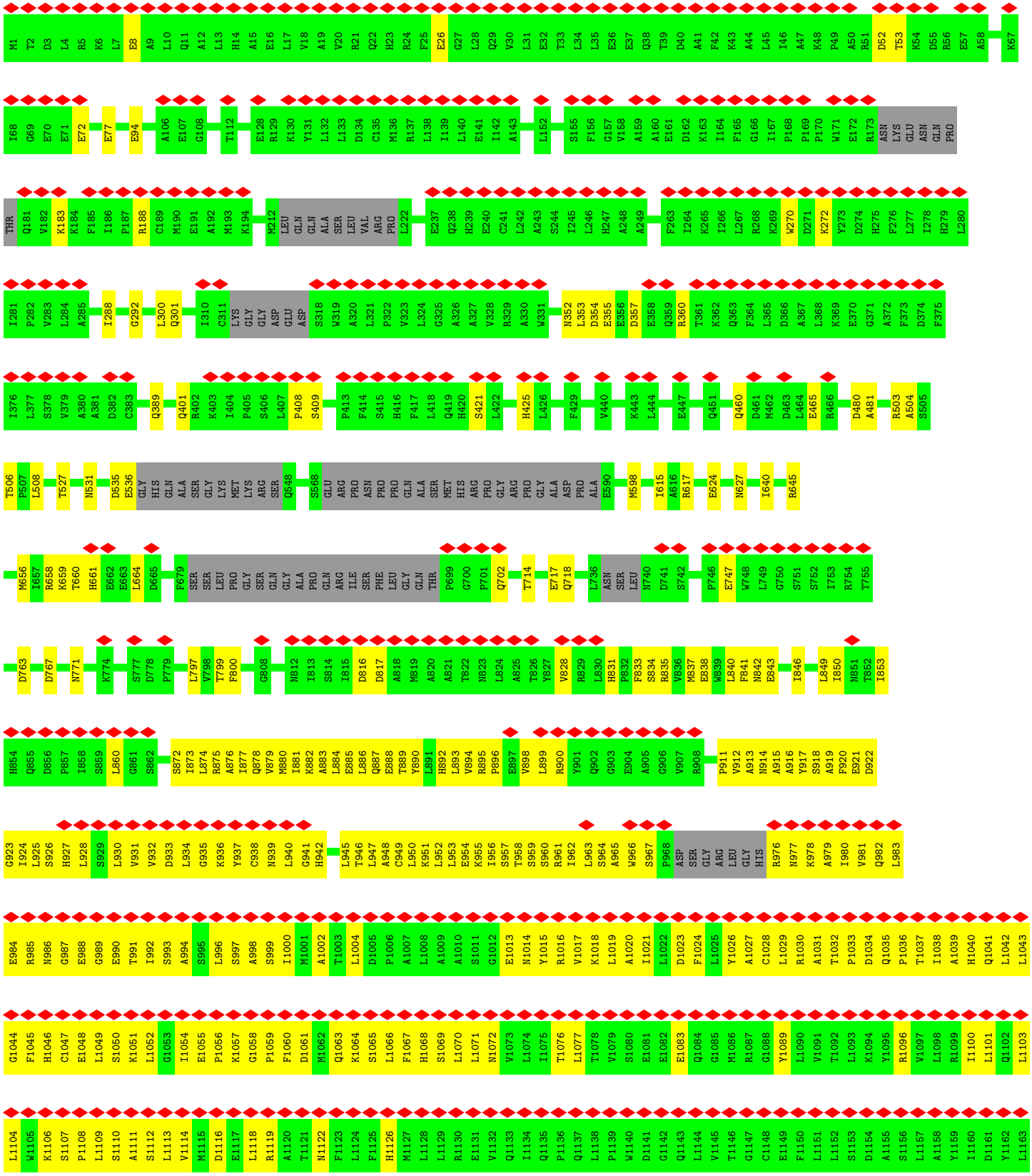
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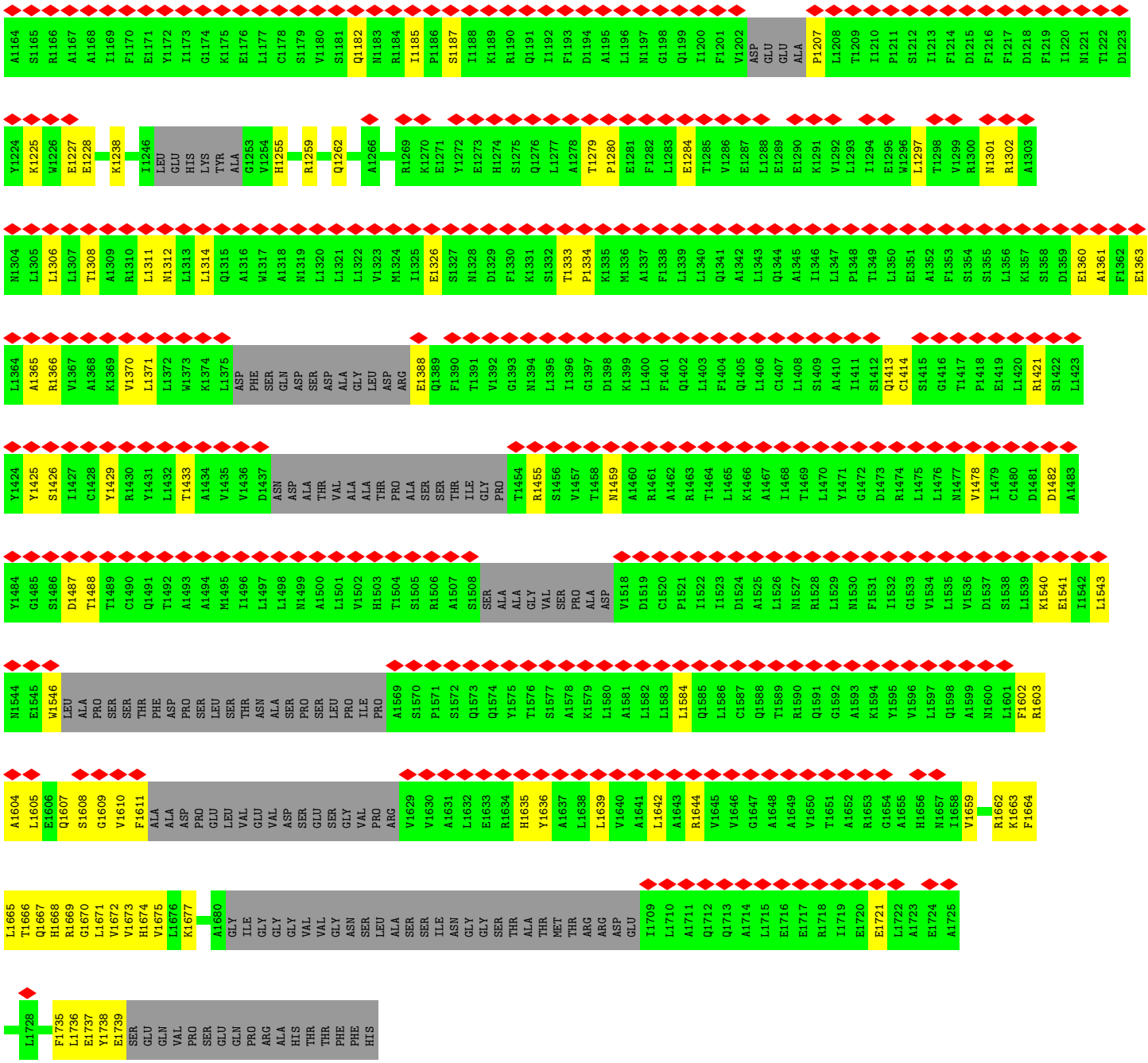

- Molecule 11: NUP205

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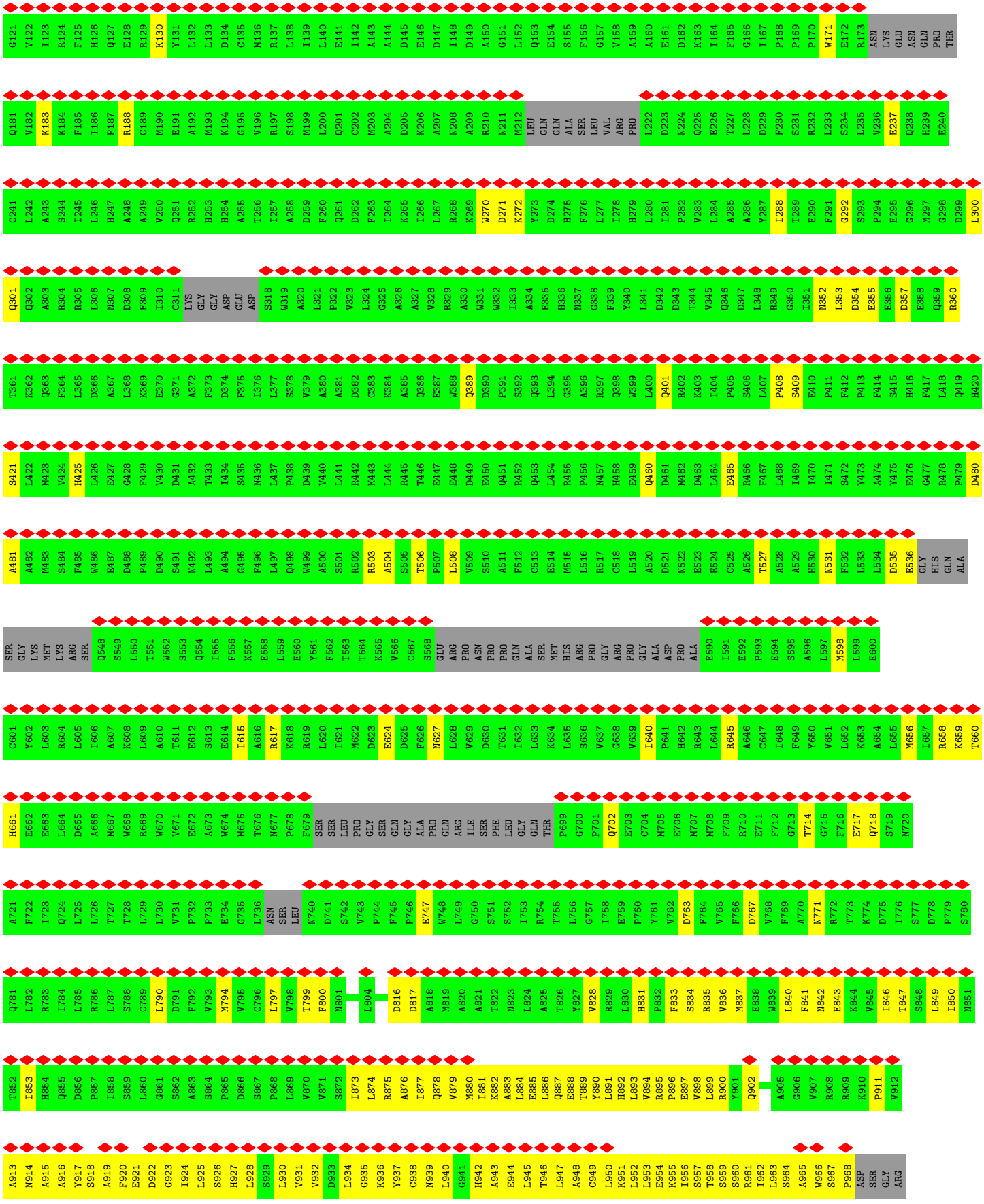
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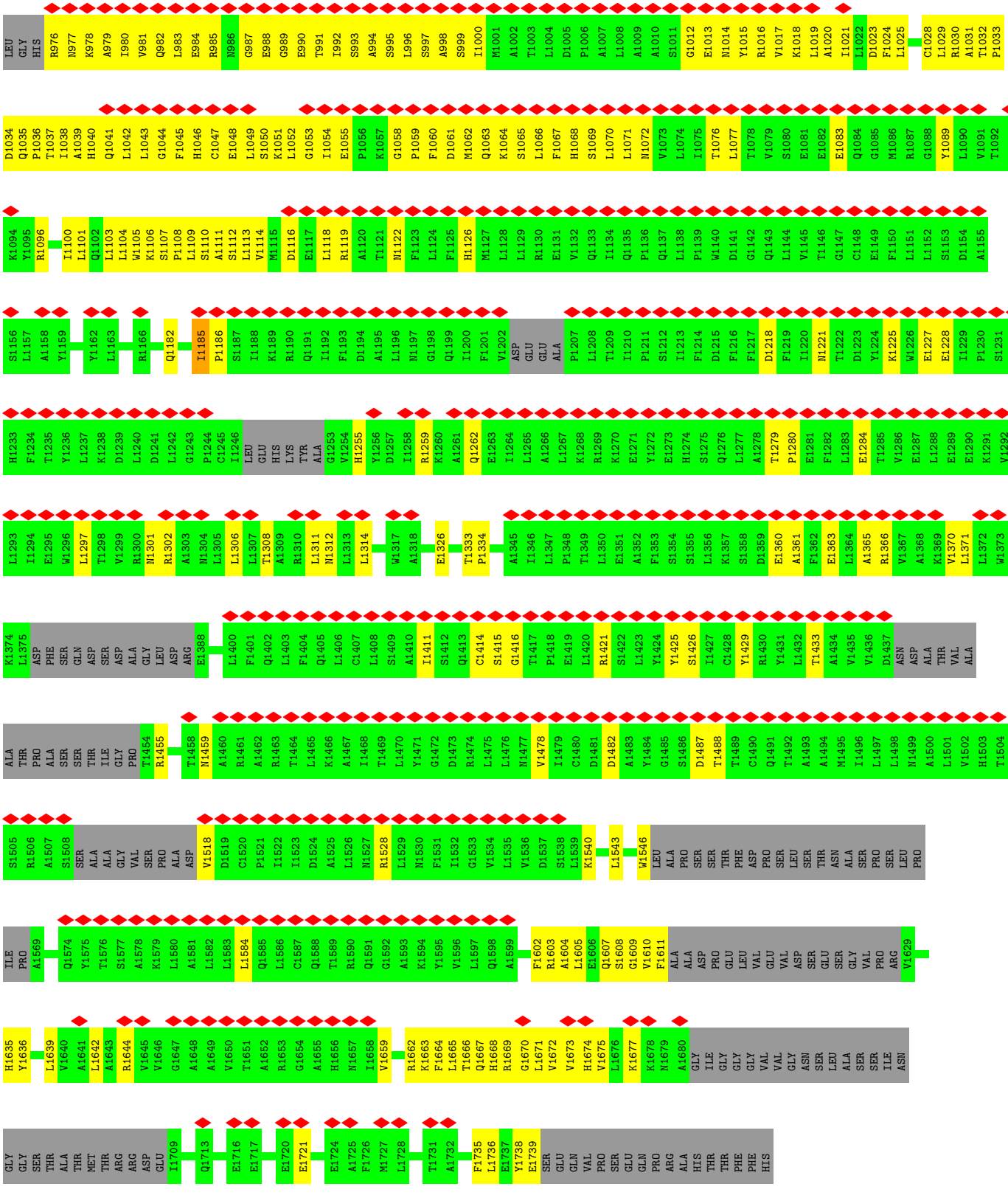

• Molecule 11: NUP205

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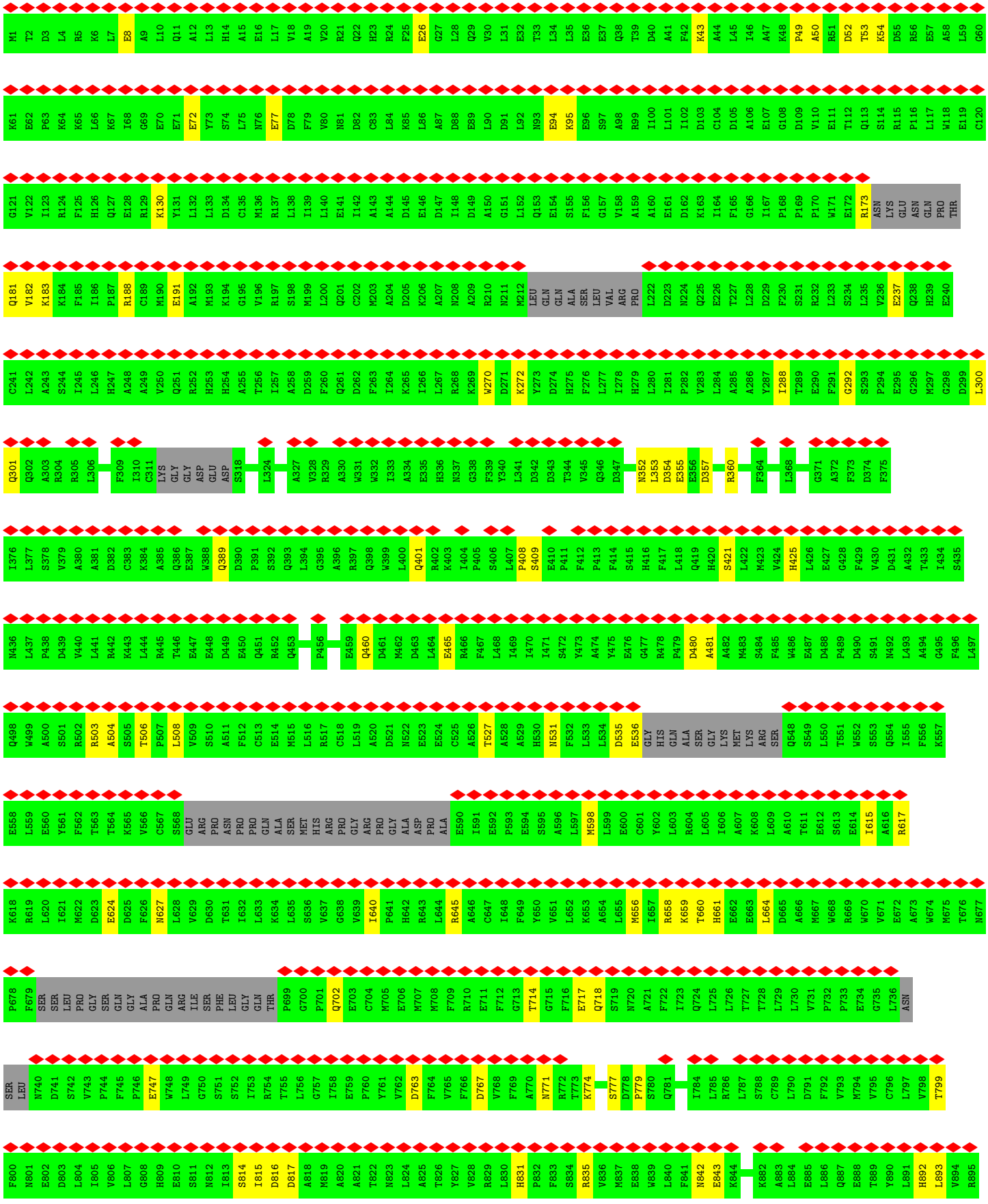
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K61 E62 P63 K64 K65 L66 K67 I68 G69 E70 E71 E72 Y73 S74 L75 N76 E77 D78 F79 V80 N81 D82 C83 L84 K85 L86 A87 D88 E89 L90 D91 L92 N93 E94 K95 E96 S97 A98 R99 I100 L101 I102 D103 C104 D105 A106 E107 G108 D109 V110 E111 T112 Q113 S114 R115 P116 L117 W118 E119 C120
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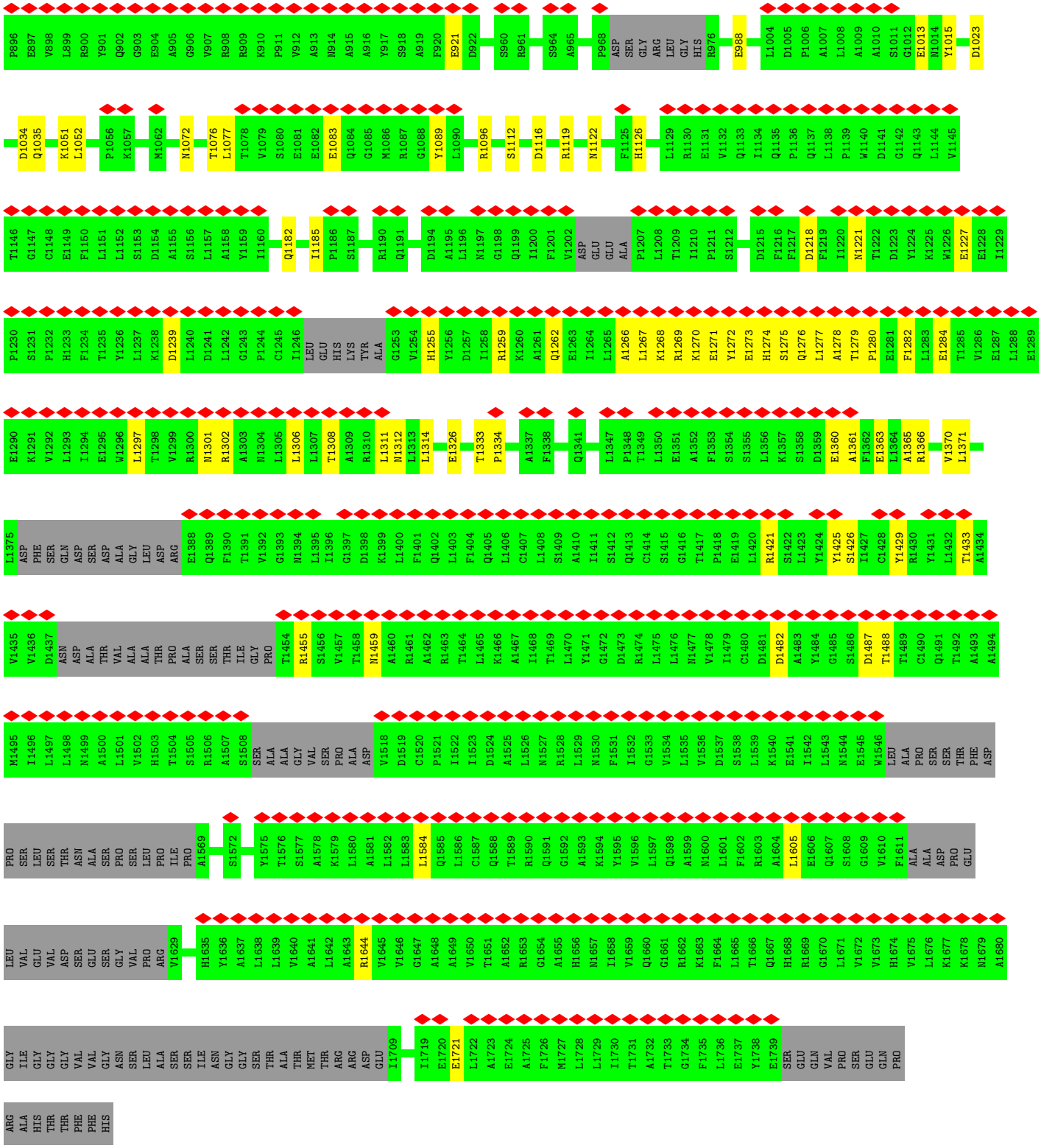
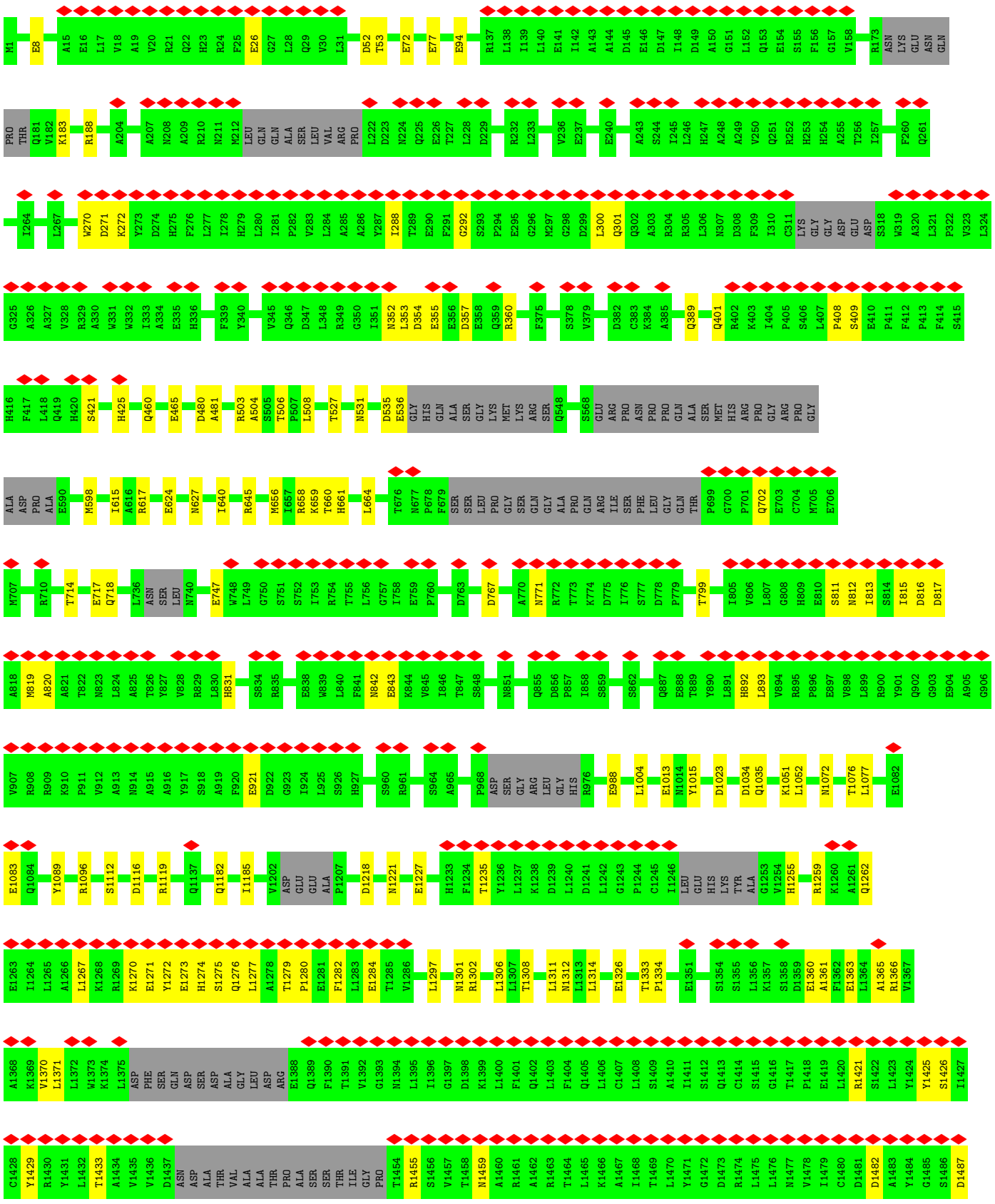
F800 N801 E802 D803 L804 I805 V806 L807 G808 H809 E810 S811 N812 I813 S814 I815 D816 D817 A818 M819 A820 A821 T822 N823 L824 A825 T826 Y827 V828 R829 L830 H831 P832 F833 S834 R835 V836 M837 E838 W839 L840 F841 N842 E843 K844 K882 A883 L884 E885 L886 Q887 E888 T889 Y890 L891 H892 L893 V894 R895



- Molecule 11: NUP205

Chain I4: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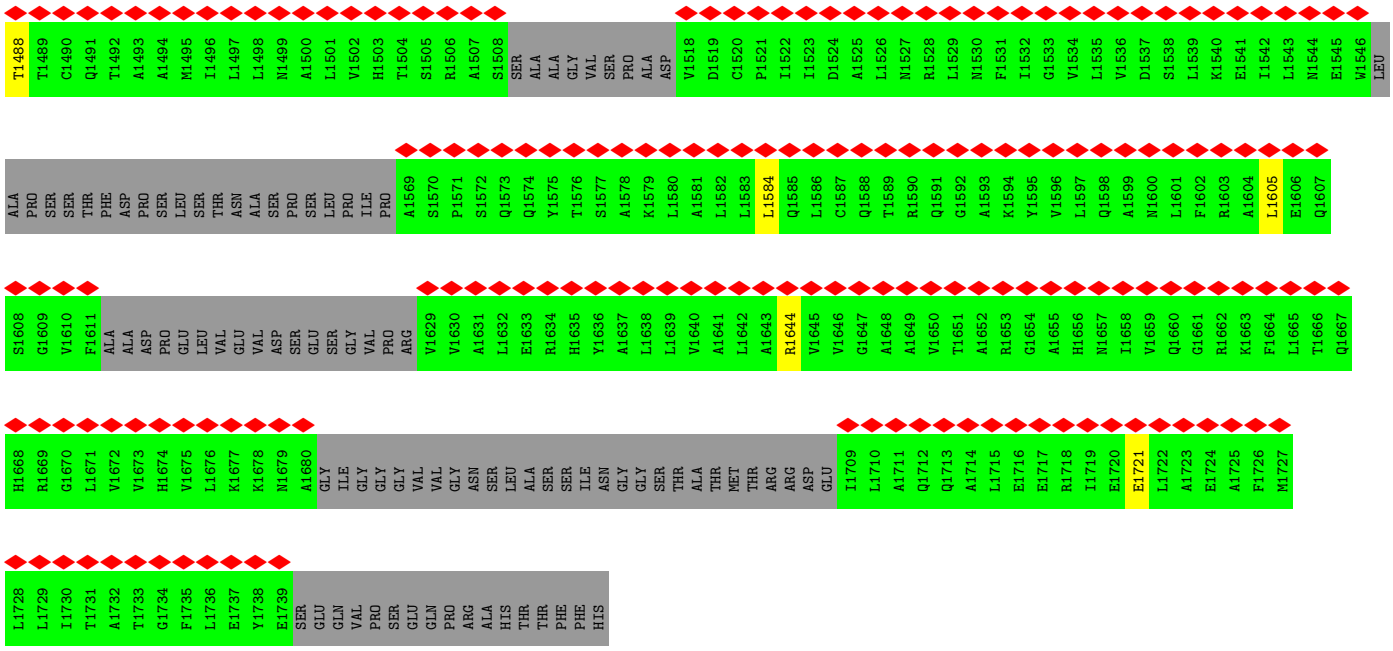
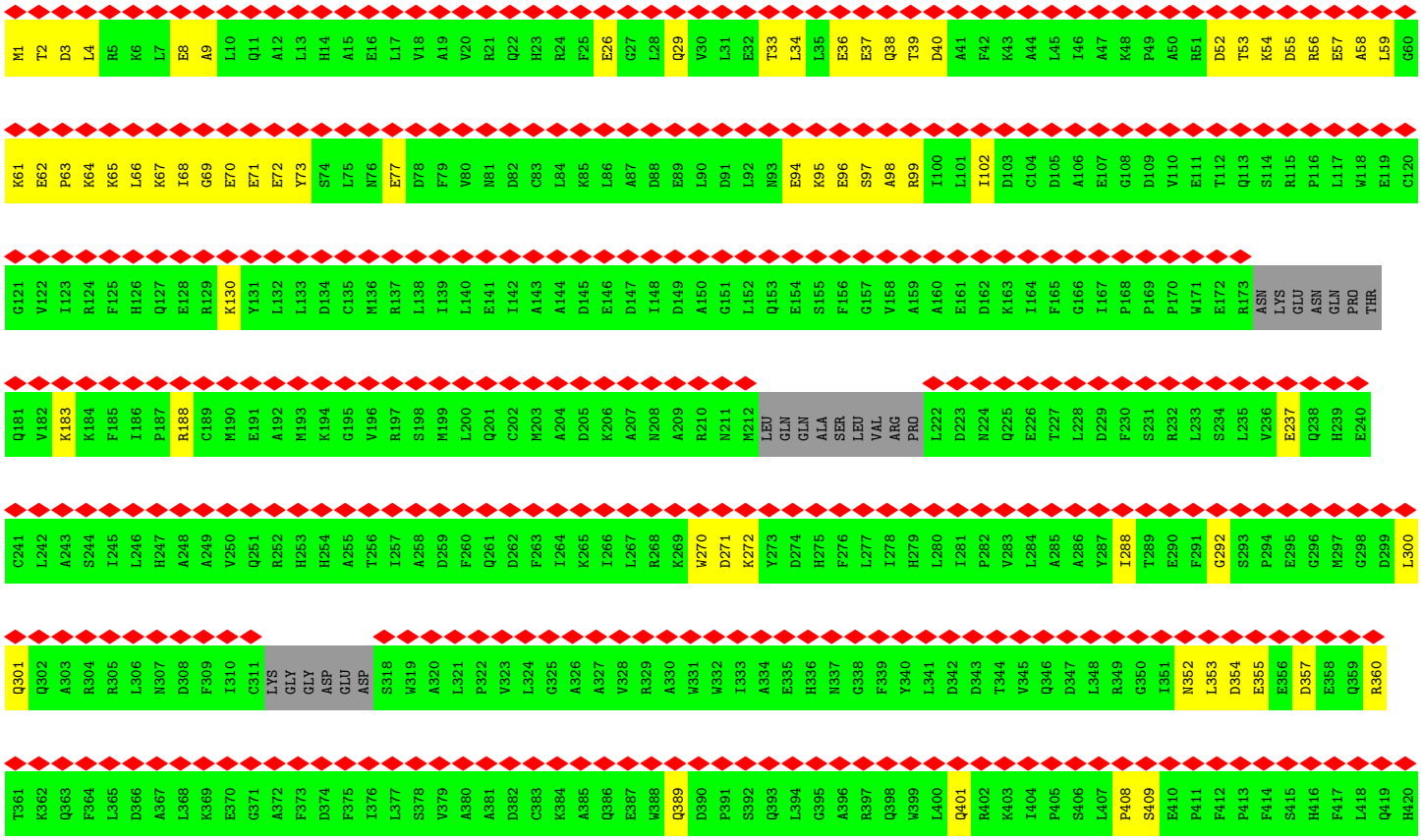
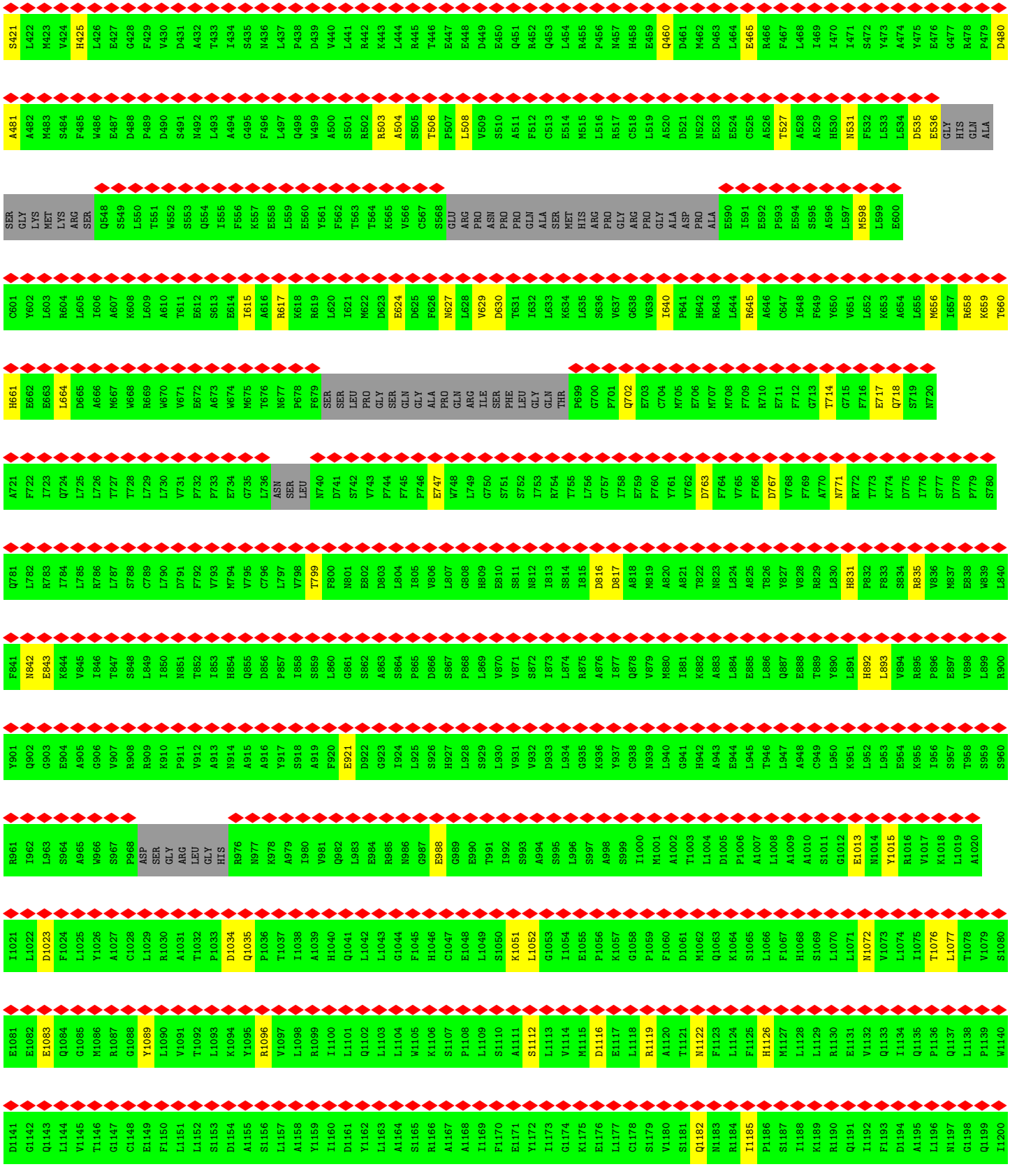


- Molecule 11: NUP205

Chain I5:

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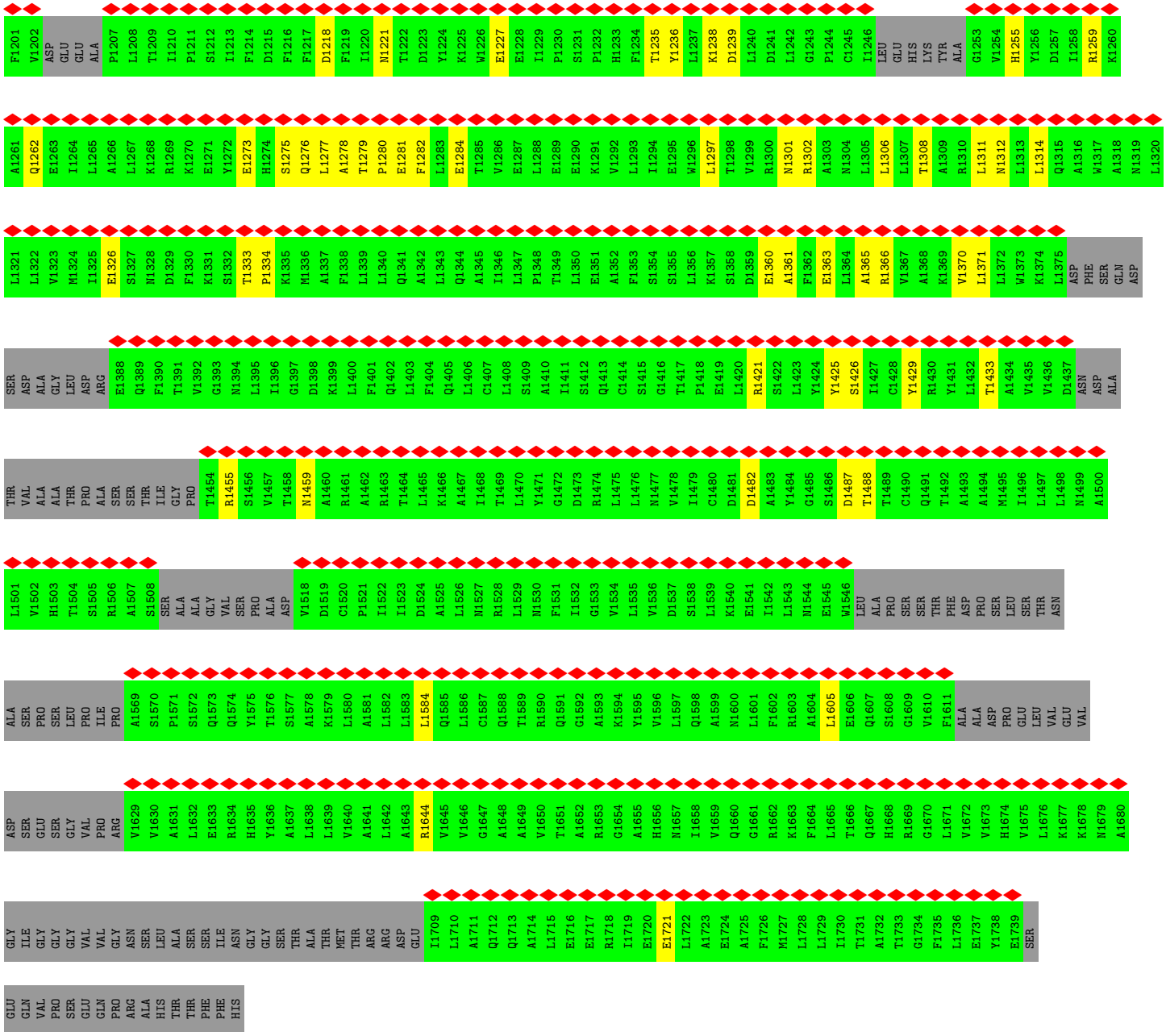

- Molecule 12: NUP93 R2

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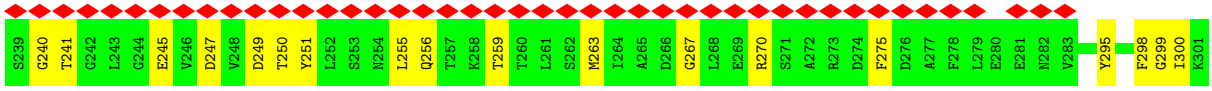

- Molecule 12: NUP93 R2

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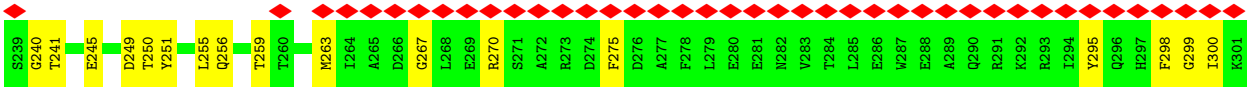

• Molecule 12: NUP93 R2

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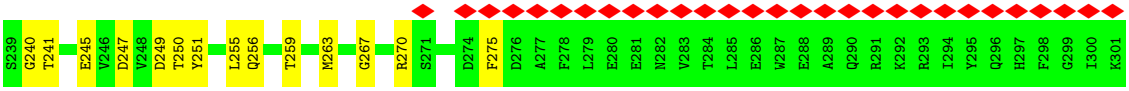

• Molecule 12: NUP93 R2

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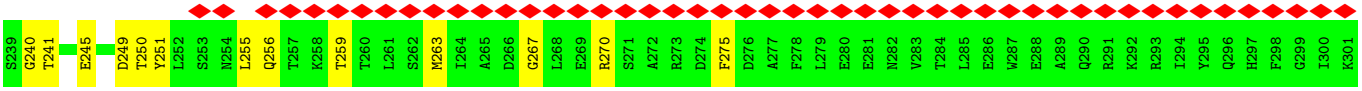
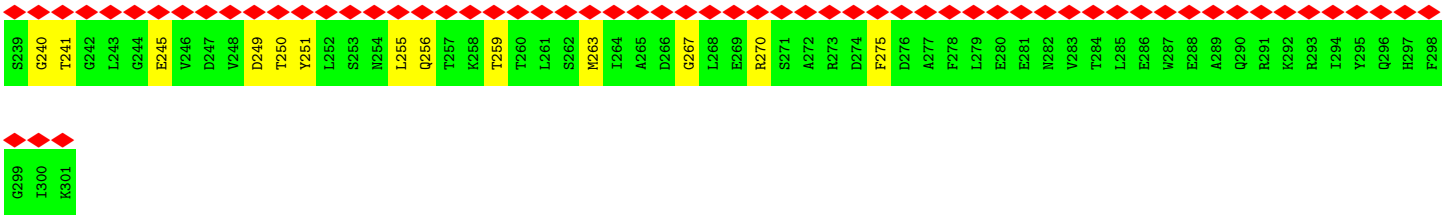


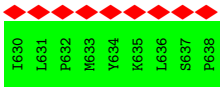
• Molecule 12: NUP93 R2

Chain J5:



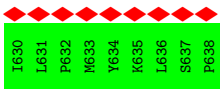
• Molecule 13: NUP98 R1

Chain K1:



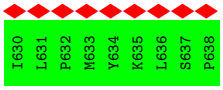
• Molecule 13: NUP98 R1

Chain K2:

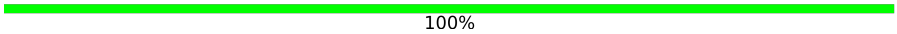


• Molecule 13: NUP98 R1

Chain K3:



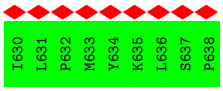
• Molecule 13: NUP98 R1

Chain K4: 

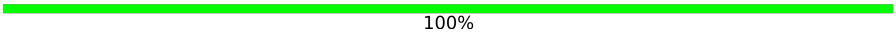
There are no outlier residues recorded for this chain.

• Molecule 13: NUP98 R1

Chain K5:



• Molecule 14: NUP53 R1

Chain L1: 

There are no outlier residues recorded for this chain.

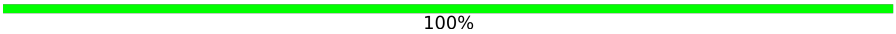
• Molecule 14: NUP53 R1

Chain L2:

• Molecule 14: NUP53 R1

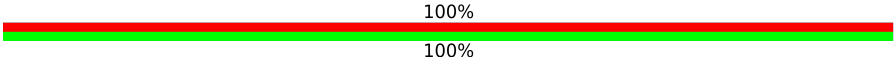
Chain L3:

• Molecule 14: NUP53 R1

Chain L4: 

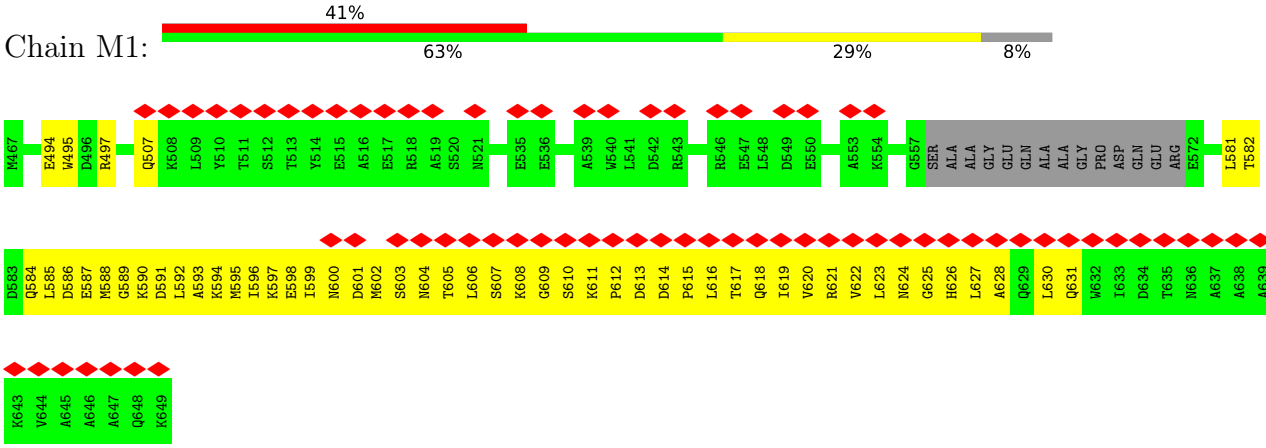
There are no outlier residues recorded for this chain.

• Molecule 14: NUP53 R1

Chain L5: 

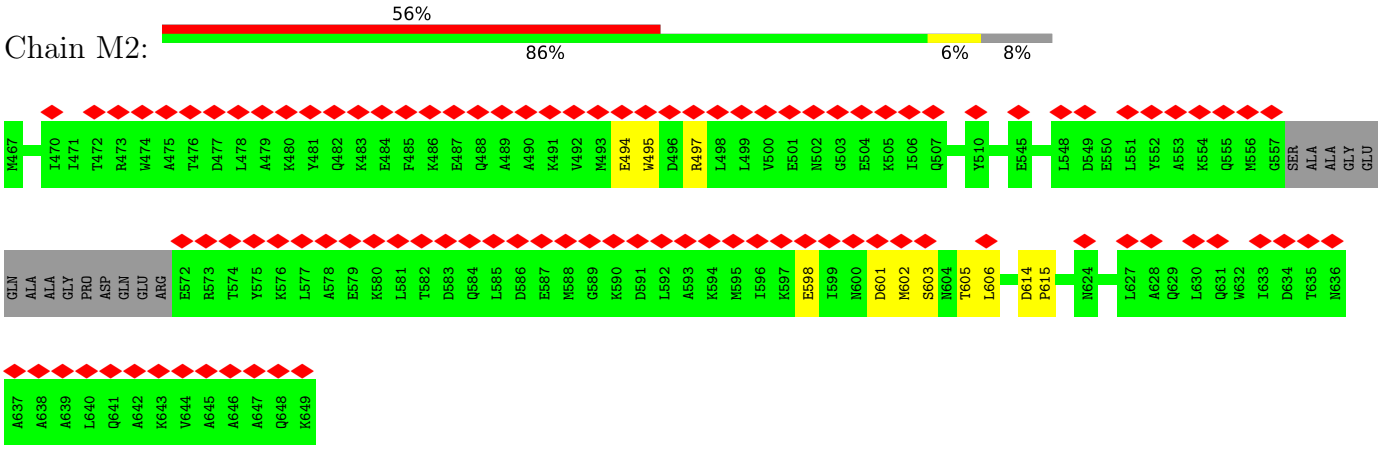
• Molecule 15: NUP62

Chain M1:



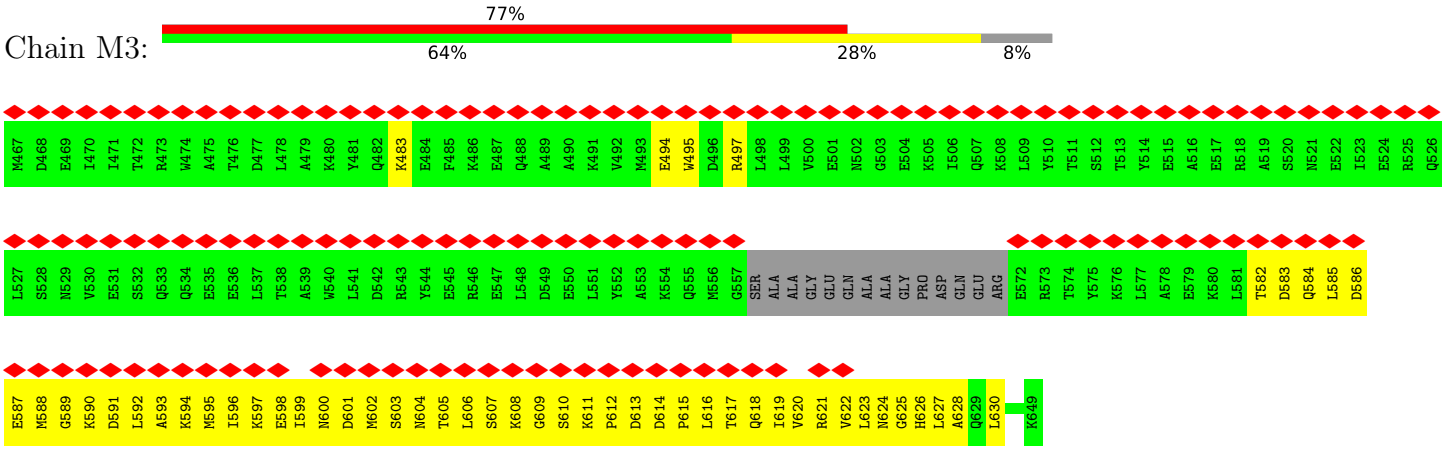
- Molecule 15: NUP62

Chain M2:



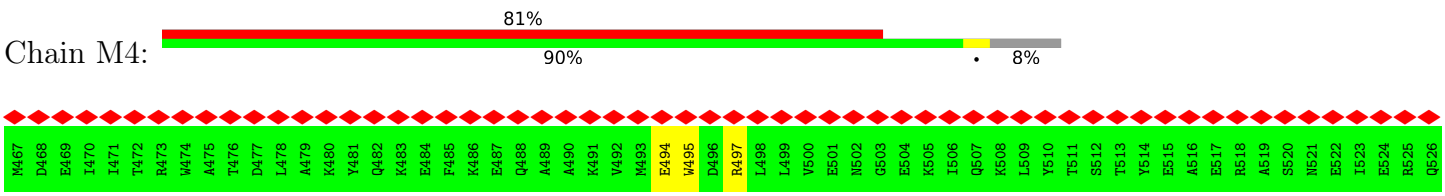
- Molecule 15: NUP62

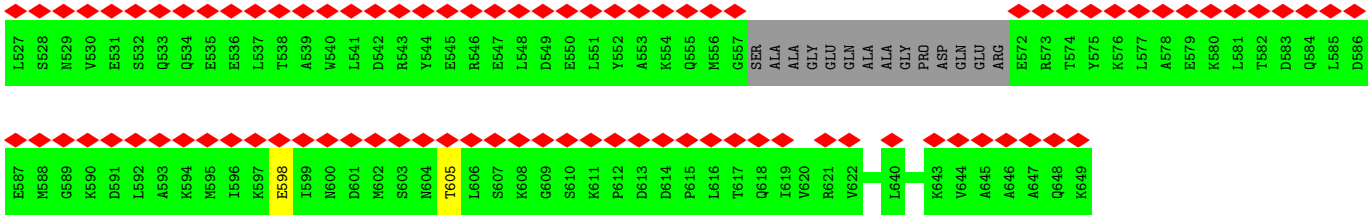
Chain M3:



- Molecule 15: NUP62

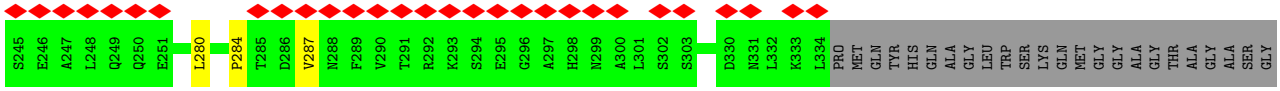
Chain M4:

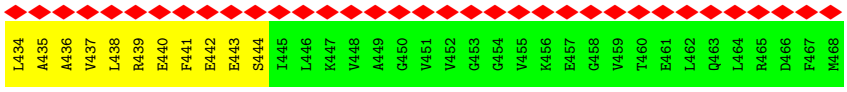




• Molecule 16: NUP58

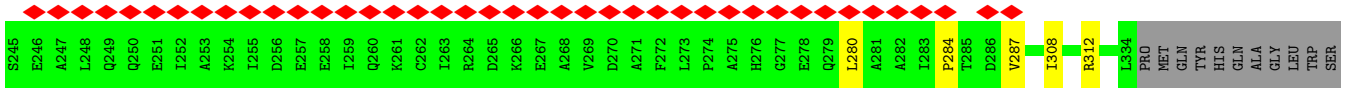
Chain N1:

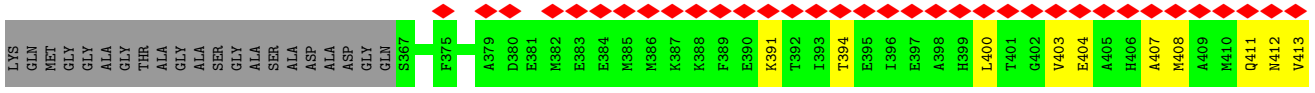


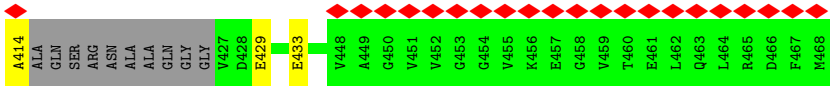


• Molecule 16: NUP58

Chain N2:

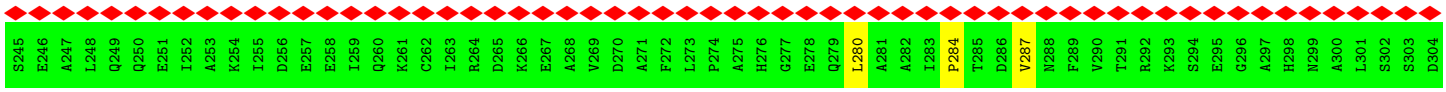


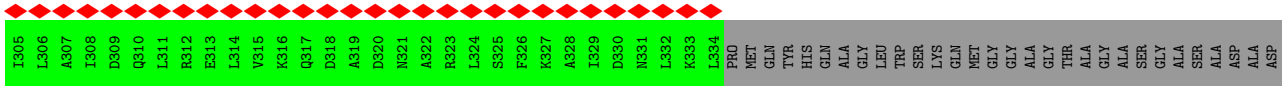


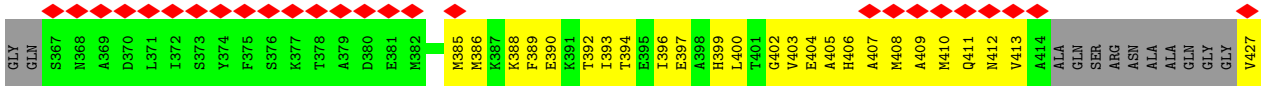


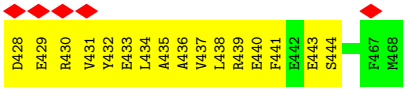
• Molecule 16: NUP58

Chain N3:



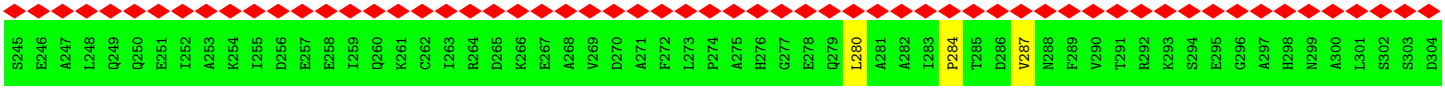


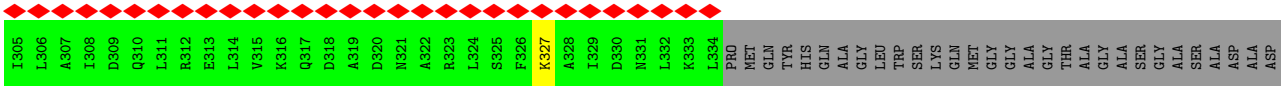


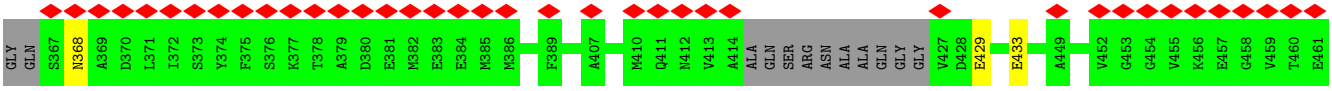


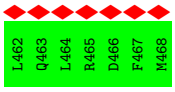
• Molecule 16: NUP58

Chain N4:



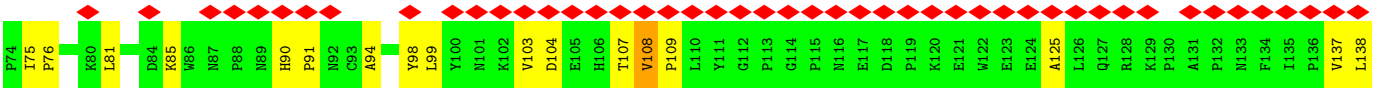


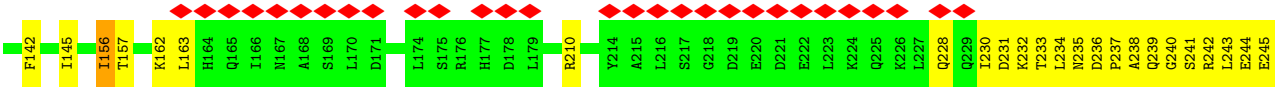


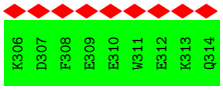


• Molecule 17: NUP54

Chain O1:

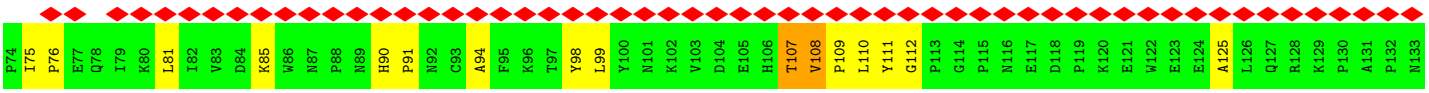


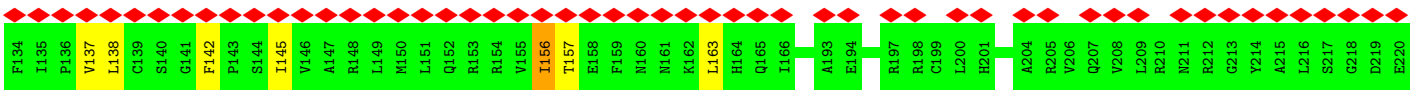


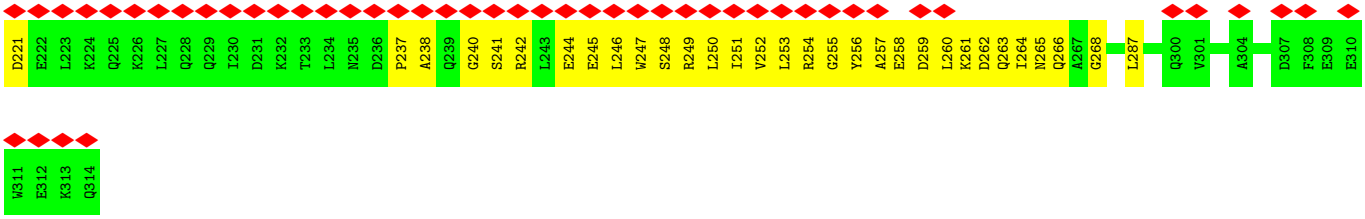


• Molecule 17: NUP54

Chain O2:

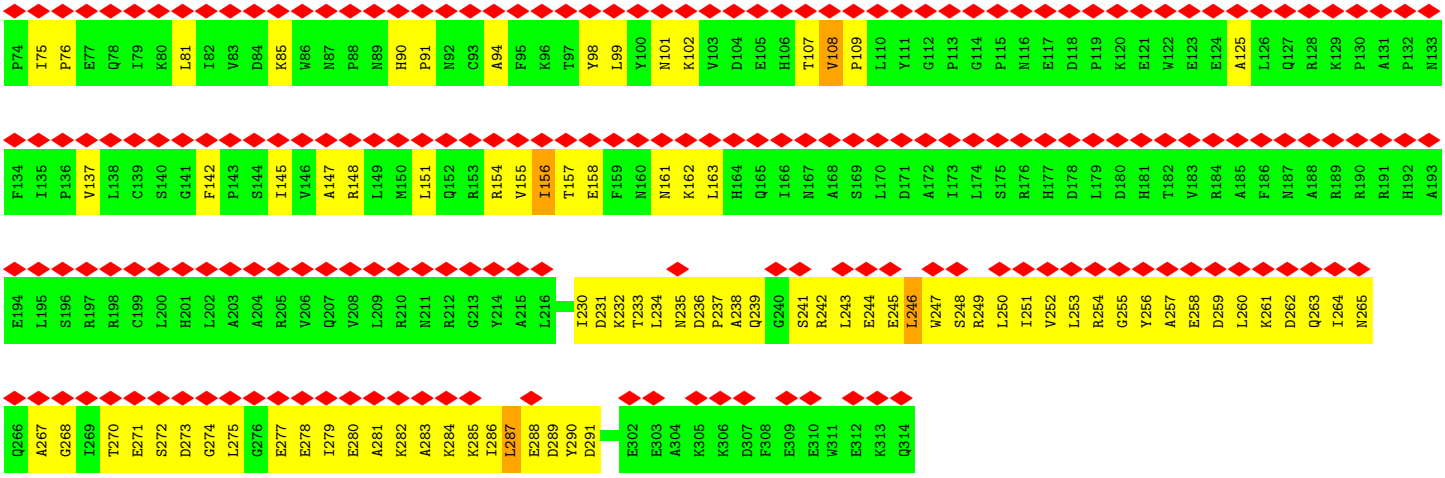






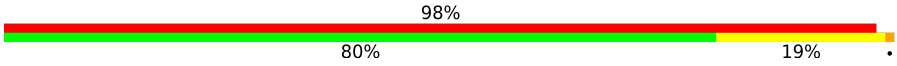
• Molecule 17: NUP54

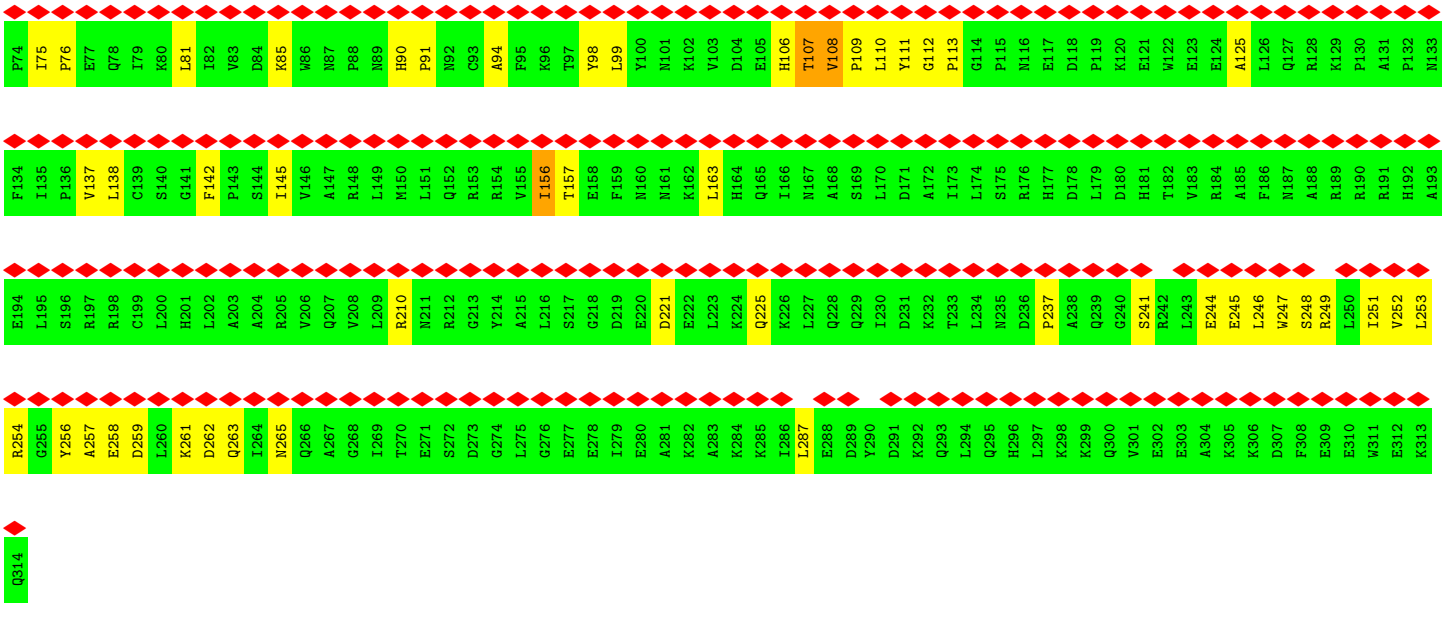
Chain O3:



• Molecule 17: NUP54

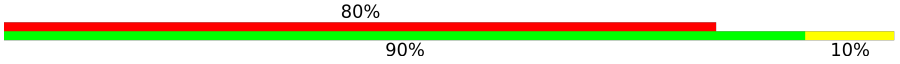
Chain O4:

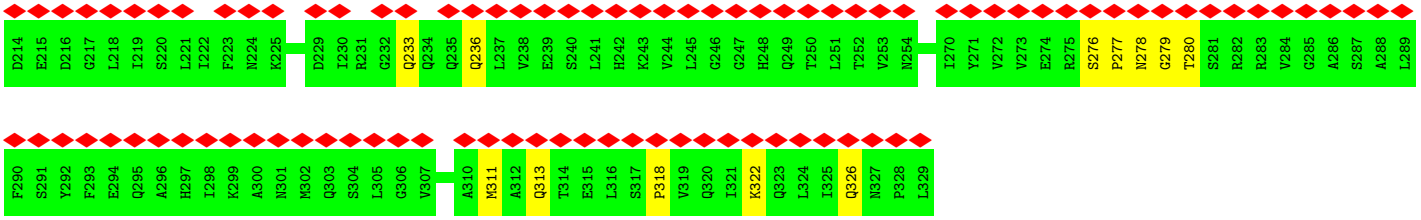




• Molecule 18: NUP54 Ferrodoxin-like domain

Chain P1:



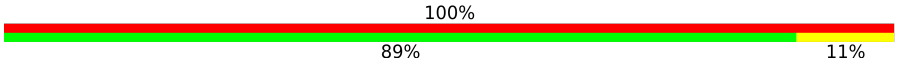


• Molecule 18: NUP54 Ferrodoxin-like domain

Chain P2:

• Molecule 18: NUP54 Ferrodoxin-like domain

Chain P3:

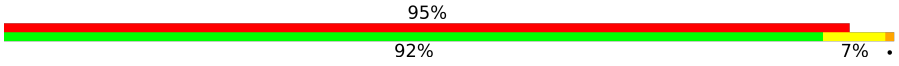


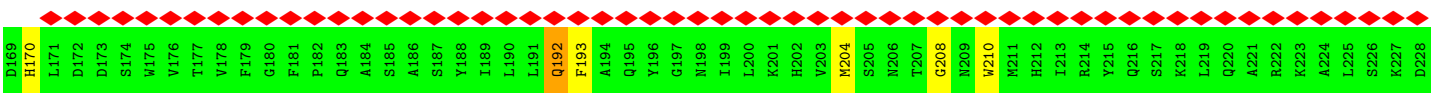
• Molecule 18: NUP54 Ferrodoxin-like domain

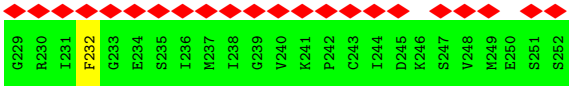
Chain P4:

• Molecule 19: NUP53 RRM

Chain Q1:

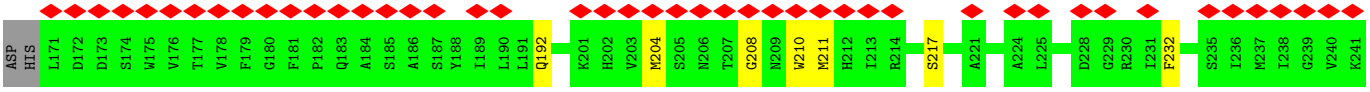


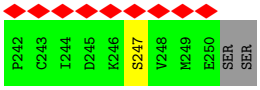




• Molecule 19: NUP53 RRM

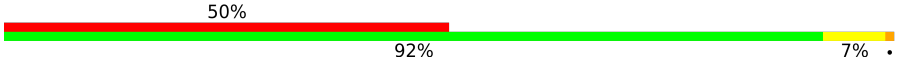
Chain Q2:

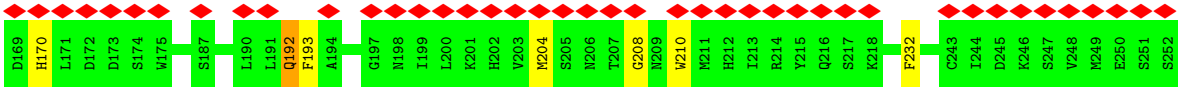




• Molecule 19: NUP53 RRM

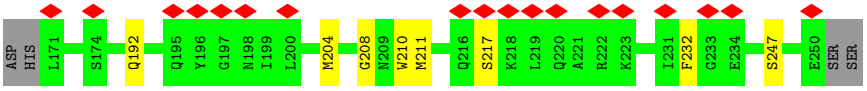
Chain Q3:





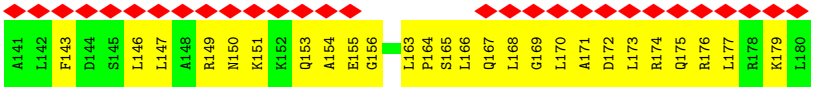
• Molecule 19: NUP53 RRM

Chain Q4:



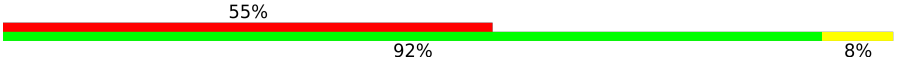
• Molecule 20: NUP93 R1

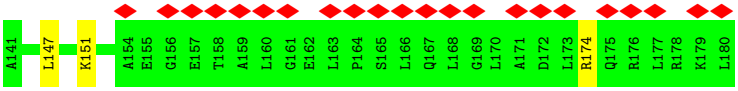
Chain R1:



• Molecule 20: NUP93 R1

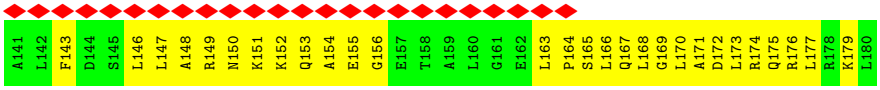
Chain R2:





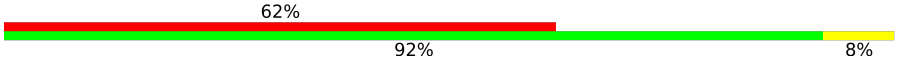
• Molecule 20: NUP93 R1

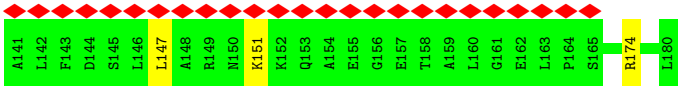
Chain R3:



• Molecule 20: NUP93 R1

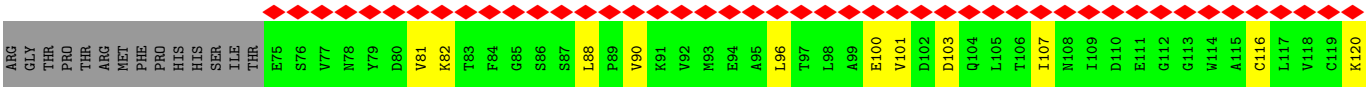
Chain R4:

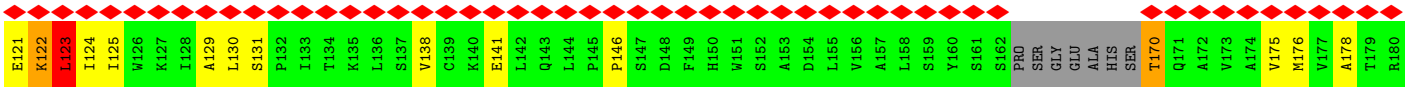


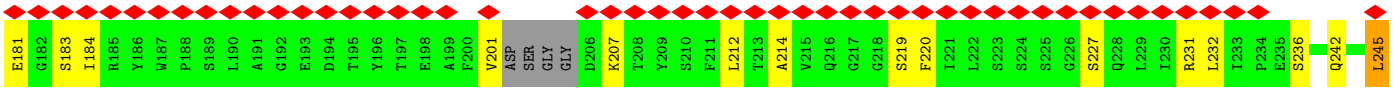


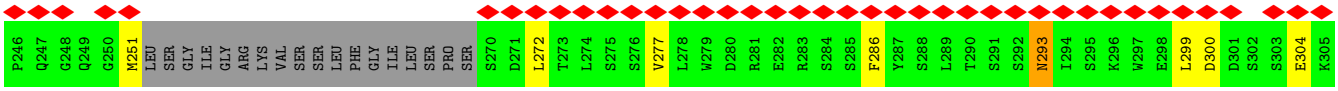
• Molecule 21: NUP133

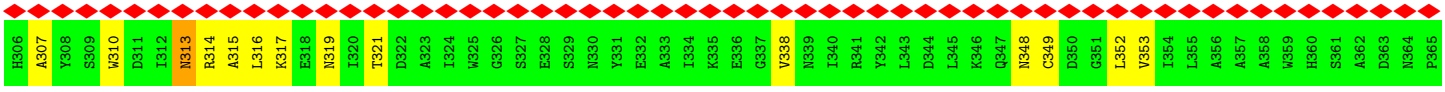
Chain S1:

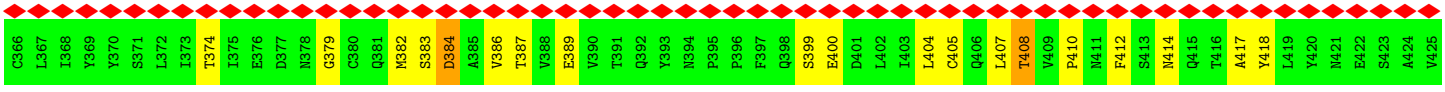


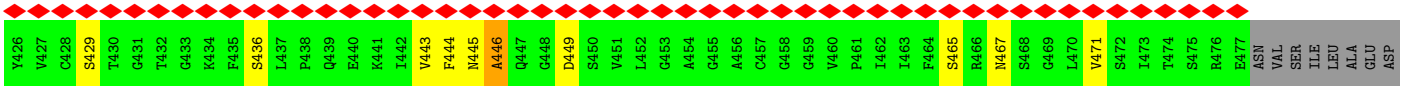


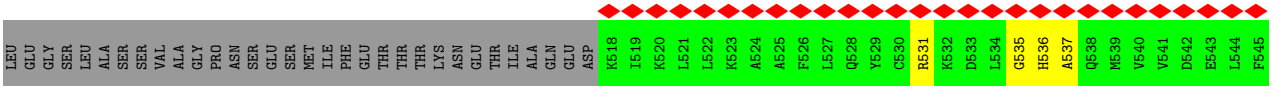


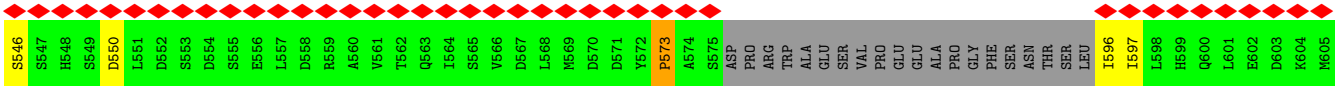


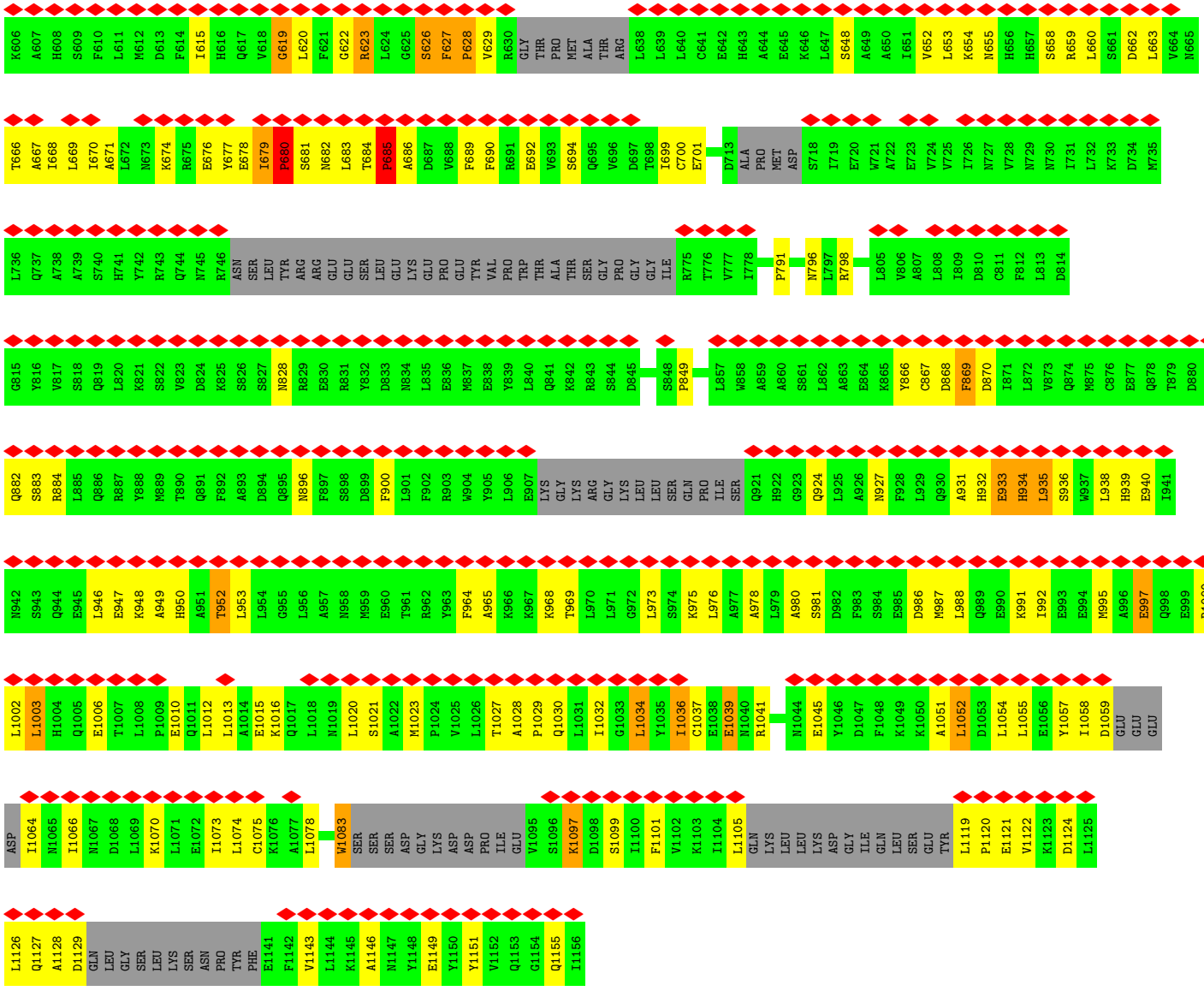






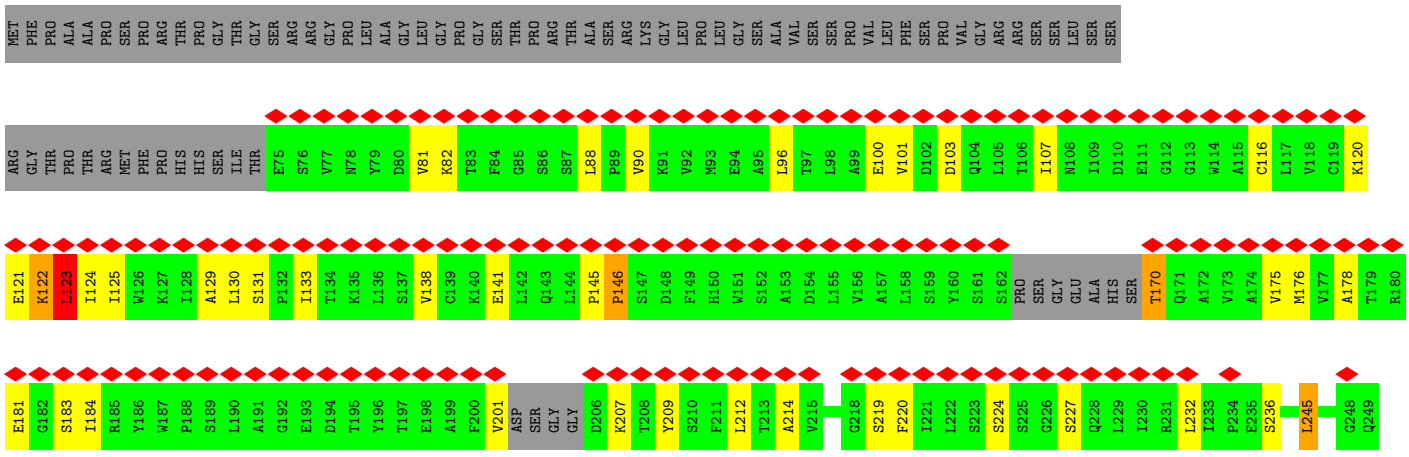


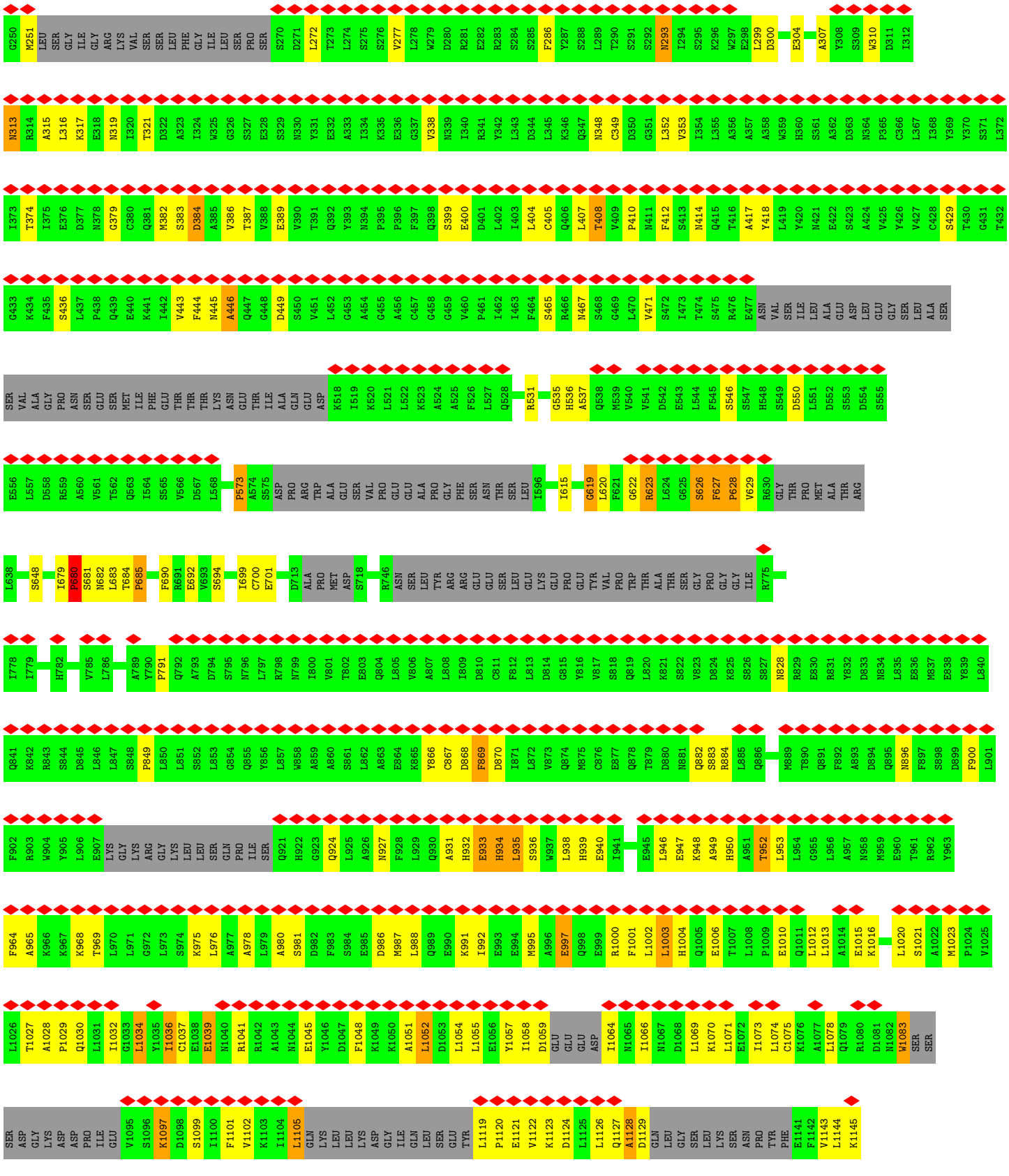




• Molecule 21: NUP133

Chain S2:

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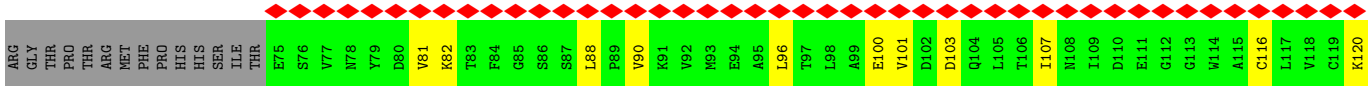
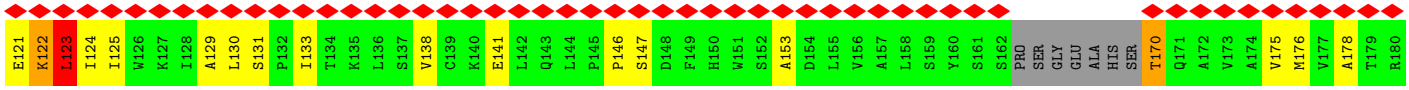
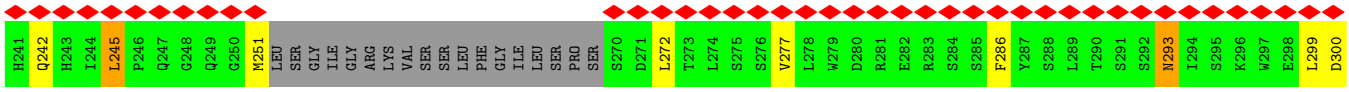
N313 R314 A315 L316 K317 E318 N319 I320 T321 D322 A323 I324 W325 G326 S327 E328 S329 N330 Y331 E332 A333 I334 K335 E336 G337 V338 N339 I340 R341 Y342 L343 D344 L345 K346 Q347 N348 C349 D350 G351 L352 V353 T354 L355 A356 A357 A358 W359 H360 S361 A362 D363 N364 P365 C366 L367 I368 Y369 Y370 S371 L372
I373 T374 I375 E376 D377 N378 G379 C380 Q381 M382 S383 D384 A385 V386 T387 V388 E389 V390 T391 Q392 Y393 N394 P395 P396 F397 Q398 S399 E400 D401 L402 I403 L404 C405 Q406 L407 T408 V409 P410 N411 F412 S413 N414 Q415 T416 A417 Y418 L419 Y420 N421 E422 S423 A424 V425 Y426 V427 C428 S429 T430 G431 T432
G433 K434 F435 S436 L437 P438 Q439 E440 K441 I442 V443 F444 N445 A446 Q447 G448 D449 S450 V451 L452 G453 A454 G455 A456 C457 G458 G459 V460 P461 I462 I463 F464 S465 R466 N467 S468 G469 L470 V471 S472 I473 T474 S475 R476 E477 ASN VAL SER ILE LEU ALA GLU ASP LEU GLU GLY SER LEU ALA SER
SER VAL ALA GLY PRO ASN SER GLU SER MET ILE PHE GLU THR THR THR LYS ASN GLU THR ILE ALA GLN GLU ASP K518 I519 K520 L521 L522 K523 A524 A525 F526 L527 Q528 R531 G535 H536 A537 Q538 M539 V540 V541 D542 E543 L544 F545 S546 S547 H548 S549 D550 L551 D552 S553 D554 S555
E556 L557 D558 R559 A560 V561 T562 Q563 I564 S565 V566 D567 L568 P573 A574 S575 ASP PRO ARG TRP ALA GLU SER VAL PRO GLU GLU GLU ALA PRO GLY PHE SER ASN THR SER LEU I596 I615 G619 L620 F621 G622 R623 L624 G625 S626 F627 P628 V629 R630 GLY THR PRO MET ALA THR ARG
L638 S648 I679 P680 S681 N682 L683 T684 P685 F690 R691 E692 V693 S694 I699 C700 F701 D713 ALA PRO MET ASP S718 R746 ASN SER LEU TYR ARG ARG GLU GLU SER LEU GLU LYS GLU PRO GLU TYR VAL PRO TRP THR ALA THR SER GLY PRO GLY GLY ILE R775
I778 I779 H782 V785 L786 A789 Y790 P791 Q792 A793 D794 S795 N796 L797 R798 N799 I800 V801 T802 E803 Q804 L805 V806 A807 L808 I809 D810 C811 F812 L813 D814 G815 Y816 V817 S818 Q819 L820 K821 S822 V823 D824 K825 S826 S827 N828 R829 E830 R831 Y832 D833 N834 L835 E836 M837 E838 Y839 L840
Q841 K842 R843 S844 D845 L846 L847 S848 P849 L850 L851 S852 L853 G854 Q855 Y856 L857 W858 A859 A860 S861 L862 A863 E864 K865 Y866 C867 D868 F869 D870 I871 L872 V873 Q874 M875 C876 E877 Q878 T879 D880 N881 Q882 S883 R884 L885 Q886 M889 T890 Q891 F892 A893 D894 Q895 N896 F897 S898 D899 F900 L901
F902 R903 W904 Y905 L906 E907 LYS GLY LYS ARG GLY LYS LEU LEU SER GLN PRO ILE SER Q921 H922 G923 Q924 L925 A926 N927 F928 L929 Q930 A931 H932 E933 H934 L935 S936 W937 L938 H939 E940 I941 E945 L946 E947 K948 A949 H950 A951 T952 L953 L954 G955 L956 A957 N958 M959 E960 T961 R962 Y963
F964 A965 K966 K967 K968 T969 L970 L971 G972 L973 S974 K975 L976 A977 A978 L979 A980 S981 D982 F983 S984 E985 D986 M987 L988 Q989 E990 K991 I992 E993 E994 M995 A996 E997 Q998 E999 R1000 F1001 L1002 L1003 H1004 Q1005 E1006 T1007 L1008 P1009 E1010 Q1011 L1012 L1013 A1014 E1015 K1016 L1020 S1021 A1022 M1023 P1024 V1025
L1026 T1027 A1028 P1029 Q1030 L1031 I1032 G1033 L1034 Y1035 I1036 C1037 E1038 E1039 N1040 R1041 R1042 A1043 N1044 E1045 Y1046 D1047 F1048 K1049 K1050 A1051 L1052 D1053 L1054 L1055 E1056 Y1057 I1058 D1059 GLU GLU GLU ASP I1064 N1065 I1066 N1067 D1068 L1069 K1070 L1071 E1072 I1073 L1074 C1075 K1076 A1077 L1078 Q1079 R1080 D1081 N1082 W1083 SER SER
SER ASP GLY LYS ASP ASP PRO ILE GLU V1095 S1096 K1097 D1098 S1099 I1100 F1101 V1102 K1103 I1104 L1105 GLN LYS LEU LEU LYS ASP GLY ILE GLN LEU SER GLU TYR L1119 P1120 E1121 V1122 K1123 D1124 L1125 L1126 Q1127 A1128 D1129 GLN LEU GLY SER LEU LYS SER ASN PRO TYR PHE E1141 F1142 V1143 L1144 K1145

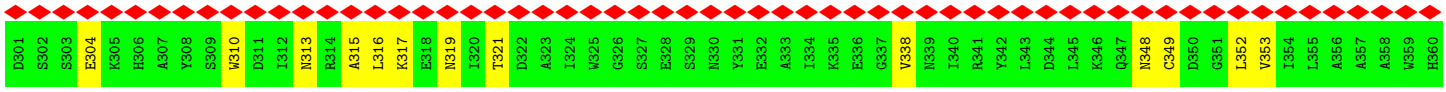
• Molecule 21: NUP133

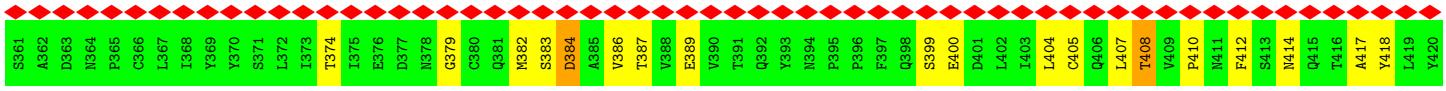
Chain S3:

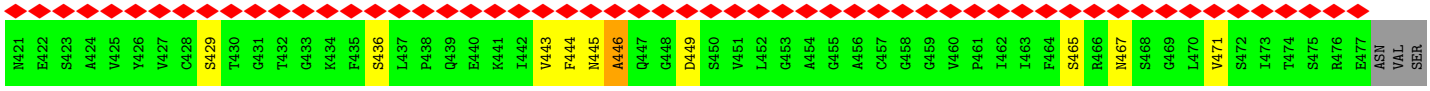


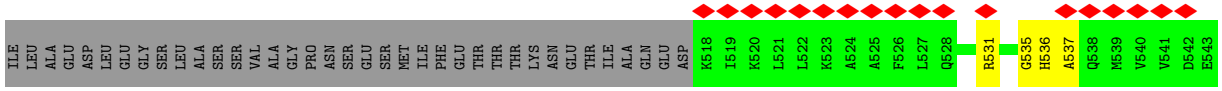


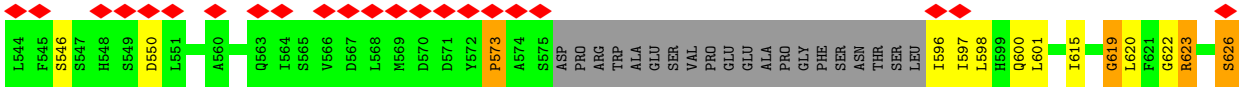


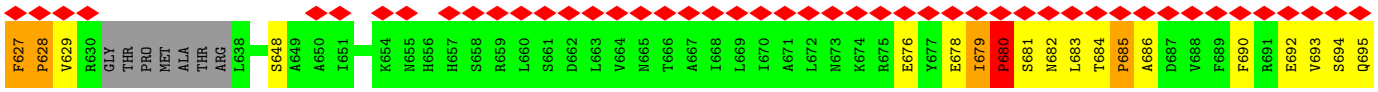


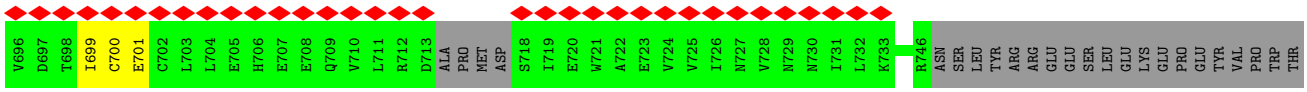


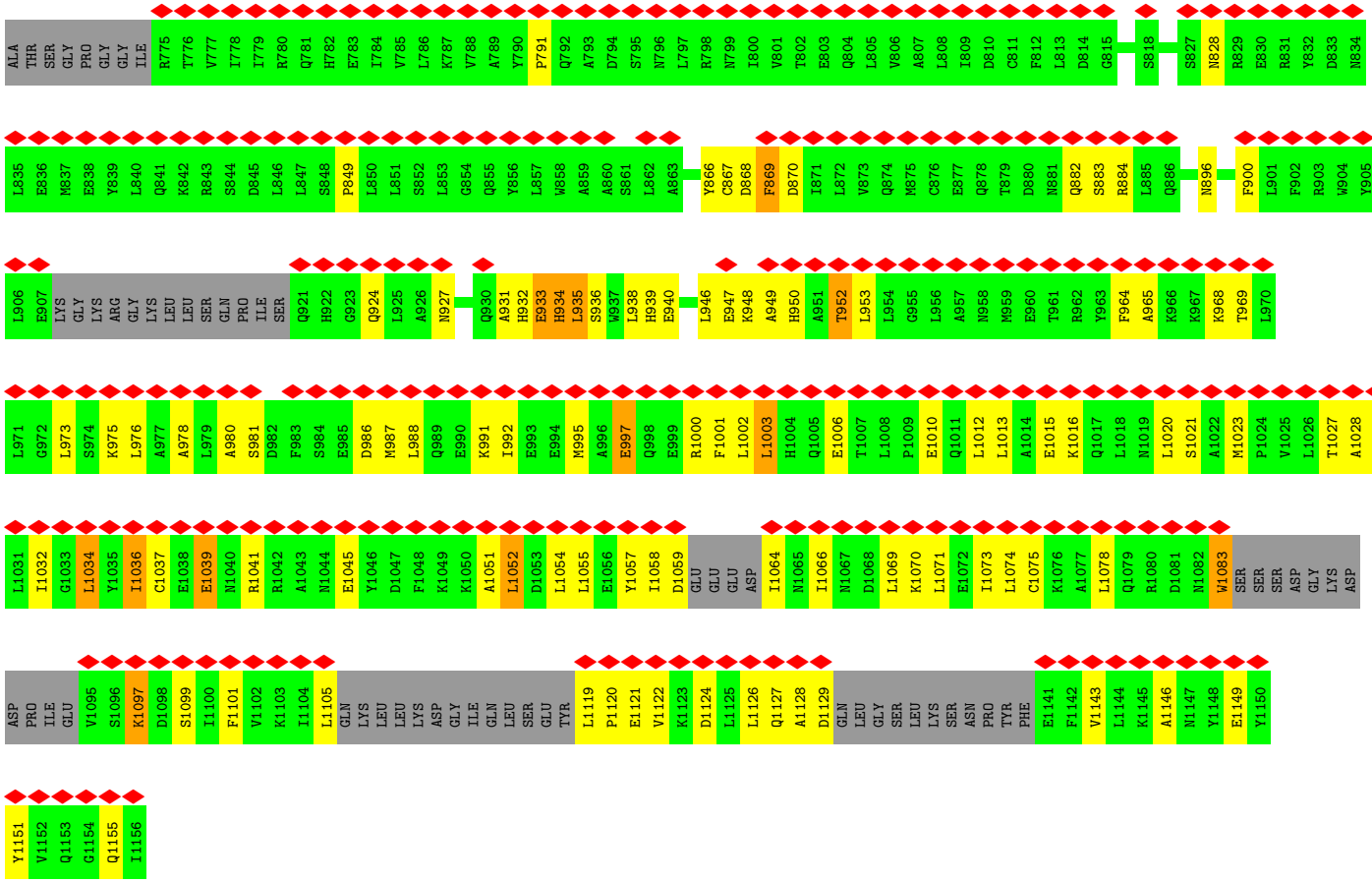






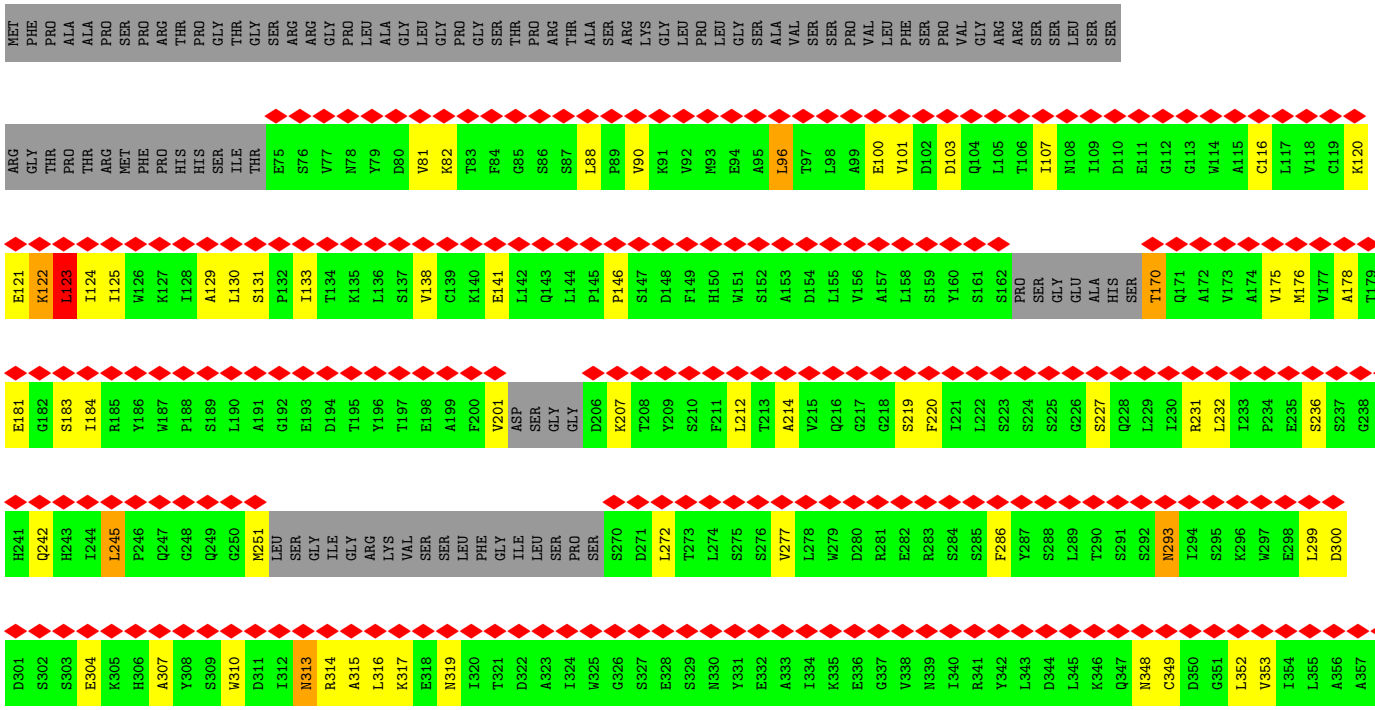


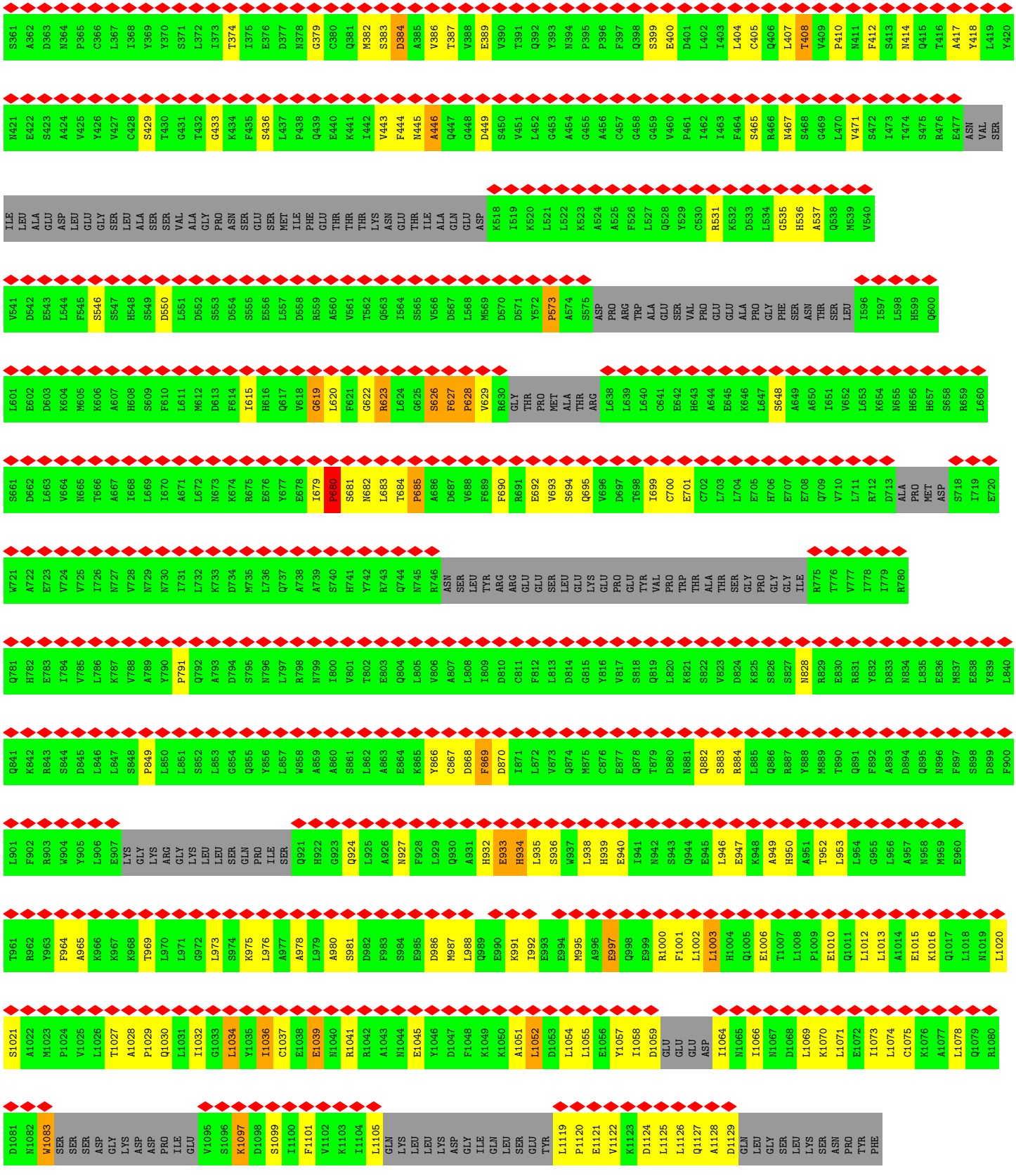




• Molecule 21: NUP133

Chain S4:

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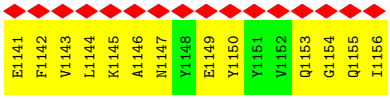
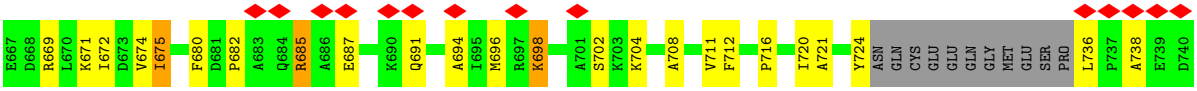
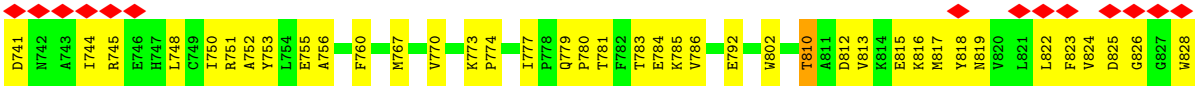
N421 E422 S423 A424 V425 Y426 V427 C428 S429 T430 G431 T432 G433 K434 F435 S436 L437 P438 Q439 E440 K441 I442 V443 F444 N445 A446 Q447 G448 D449 S450 V451 L452 G453 A454 G455 A456 C457 G458 G459 V460 P461 I462 I463 F464 S465 R466 N467 S468 G469 L470 V471 S472 I473 T474 S475 R476 E477 ASN VAL SER
ILE LEU ALA GLU ASP LEU GLU GLY SER LEU ALA SER SER VAL ALA GLY PRO ASN SER GLU SER MET ILE PHE GLU THR THR THR LYS ASN GLU THR ILE ALA GLN GLU ASP K518 I519 K520 L521 L522 K523 A524 A525 F526 L527 Q528 Y529 C530 R531 K532 D533 L534 G535 H536 A537 Q538 M539 V540
V541 D542 E543 L544 F545 S546 S547 H548 S549 D550 L551 D552 S553 D554 S555 E556 L557 D558 R559 A560 V561 T562 Q563 I564 S565 V566 D567 L568 M569 D570 D571 Y572 P573 A574 S575 ASP PRO ARG TRP ALA GLU SER VAL PRO GLU GLU ALA PRO GLY PHE SER ASN THR SER LEU I596 I597 L598 H599 Q600
L601 E602 D603 K604 M605 K606 A607 H608 S609 F610 L611 M612 D613 F614 I615 H616 Q617 V618 G619 L620 F621 G622 R623 L624 G625 S626 F627 P628 V629 R630 GLY THR PRO MET ALA THR ARG L638 L639 L640 C641 E642 H643 A644 E645 K646 L647 S648 A649 A650 I651 V652 L653 K654 N655 H656 H657 S658 R659 L660
S661 D662 L663 V664 N665 T666 A667 I668 L669 I670 A671 L672 N673 K674 R675 E676 Y677 E678 I679 P680 S681 N682 L683 T684 P685 A686 D687 V688 F689 F690 R691 E692 V693 S694 Q695 V696 D697 T698 I699 C700 E701 C702 L703 L704 E705 H706 E707 E708 Q709 V710 L711 R712 D713 ALA PRO MET ASP S718 I719 E720
W721 A722 E723 V724 V725 I726 N727 V728 N729 N730 I731 L732 K733 D734 M735 L736 Q737 A738 A739 S740 H741 Y742 R743 Q744 N745 R746 ASN SER LEU TYR ARG ARG GLU GLU SER LEU GLU LYS GLU PRO GLU TYR VAL PRO TRP THR ALA THR SER GLY PRO GLY GLY ILE R775 T776 V777 I778 I779 R780
Q781 H782 E783 I784 V785 L786 K787 V788 A789 Y790 P791 Q792 A793 D794 S795 N796 L797 R798 N799 I800 V801 T802 E803 Q804 L805 V806 A807 L808 I809 D810 C811 F812 L813 D814 G815 Y816 V817 S818 Q819 L820 K821 S822 V823 D824 K825 S826 S827 N828 R829 E830 R831 Y832 D833 N834 L835 E836 M837 E838 Y839 L840
Q841 K842 R843 S844 D845 L846 L847 S848 P849 L850 L851 S852 L853 G854 Q855 Y856 L857 W858 A859 A860 S861 L862 A863 E864 K865 Y866 C867 D868 F869 D870 I871 L872 V873 Q874 M875 C876 E877 Q878 T879 D880 N881 Q882 S883 R884 L885 Q886 R887 Y888 M889 T890 Q891 F892 A893 D894 Q895 N896 F897 S898 D899 F900
L901 F902 R903 W904 Y905 L906 E907 LYS GLY LYS ARG GLY LYS LEU LEU SER GLN PRO ILE SER Q921 H922 G923 Q924 L925 A926 N927 F928 L929 Q930 A931 H932 E933 H934 L935 S936 W937 L938 H939 E940 I941 N942 S943 Q944 E945 L946 E947 K948 A949 H950 A951 T952 L953 L954 G955 L956 A957 N958 M959 E960
T961 R962 Y963 F964 A965 K966 K967 K968 T969 L970 L971 G972 L973 S974 K975 L976 A977 A978 L979 A980 S981 D982 F983 S984 E985 D986 M987 L988 Q989 E990 K991 I992 E993 E994 M995 A996 E997 Q998 E999 R1000 F1001 L1002 L1003 H1004 Q1005 E1006 T1007 L1008 P1009 E1010 Q1011 L1012 L1013 A1014 E1015 K1016 Q1017 L1018 N1019 L1020
S1021 A1022 M1023 P1024 V1025 L1026 T1027 A1028 P1029 Q1030 L1031 I1032 G1033 L1034 Y1035 I1036 C1037 E1038 E1039 N1040 R1041 R1042 A1043 N1044 E1045 Y1046 D1047 F1048 K1049 K1050 A1051 L1052 D1053 L1054 L1055 E1056 Y1057 I1058 D1059 GLU GLU GLU ASP I1064 N1065 I1066 N1067 D1068 L1069 K1070 L1071 E1072 I1073 L1074 C1075 K1076 A1077 L1078 Q1079 R1080
D1081 N1082 W1083 SER SER SER ASP GLY LYS ASP ASP PRO ILE GLU V1095 S1096 K1097 D1098 S1099 I1100 F1101 V1102 K1103 I1104 L1105 GLN LYS LEU LEU LYS ASP GLY ILE GLN LEU SER GLU TYR L1119 P1120 E1121 V1122 K1123 D1124 L1125 L1126 Q1127 A1128 D1129 GLN LEU GLY SER LEU LYS SER ASN PRO TYR PHE

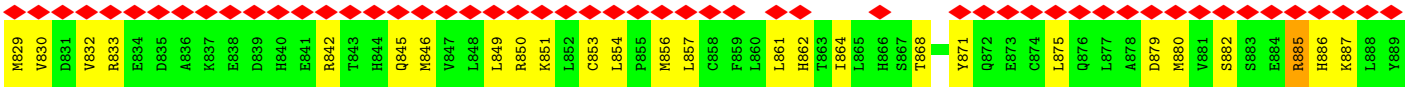


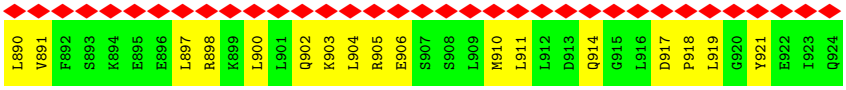
• Molecule 22: NUP107 CTD

Chain T1:



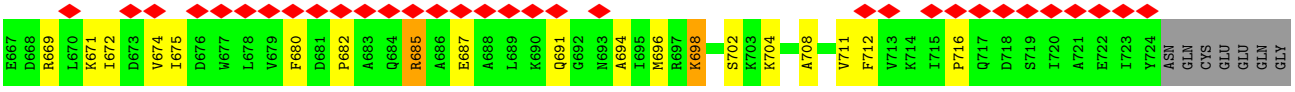


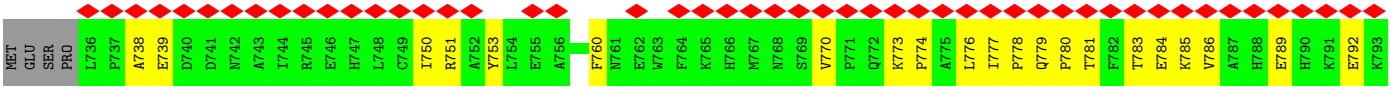


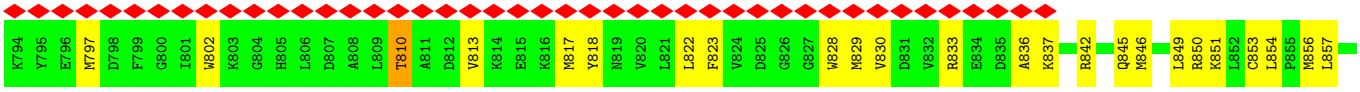


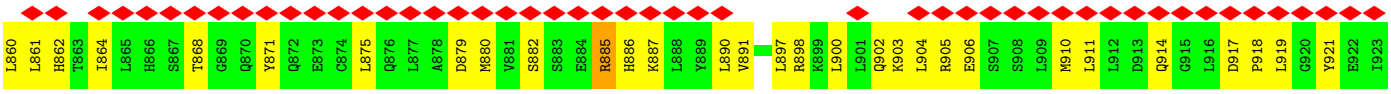
• Molecule 22: NUP107 CTD

Chain T2:



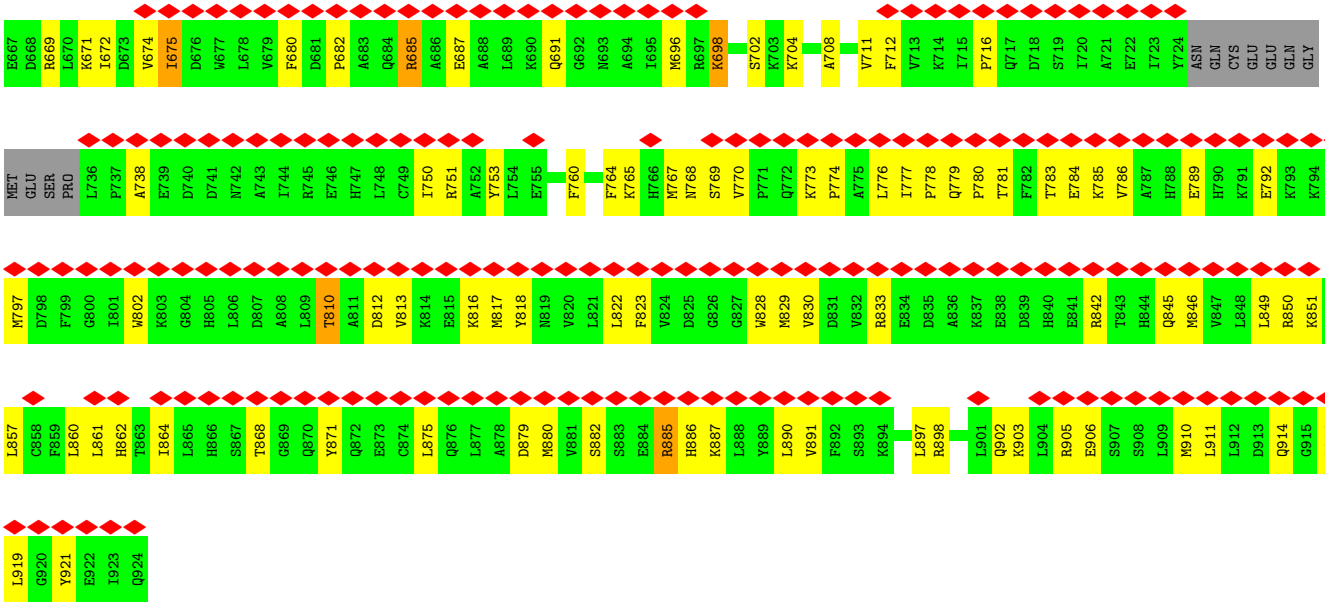






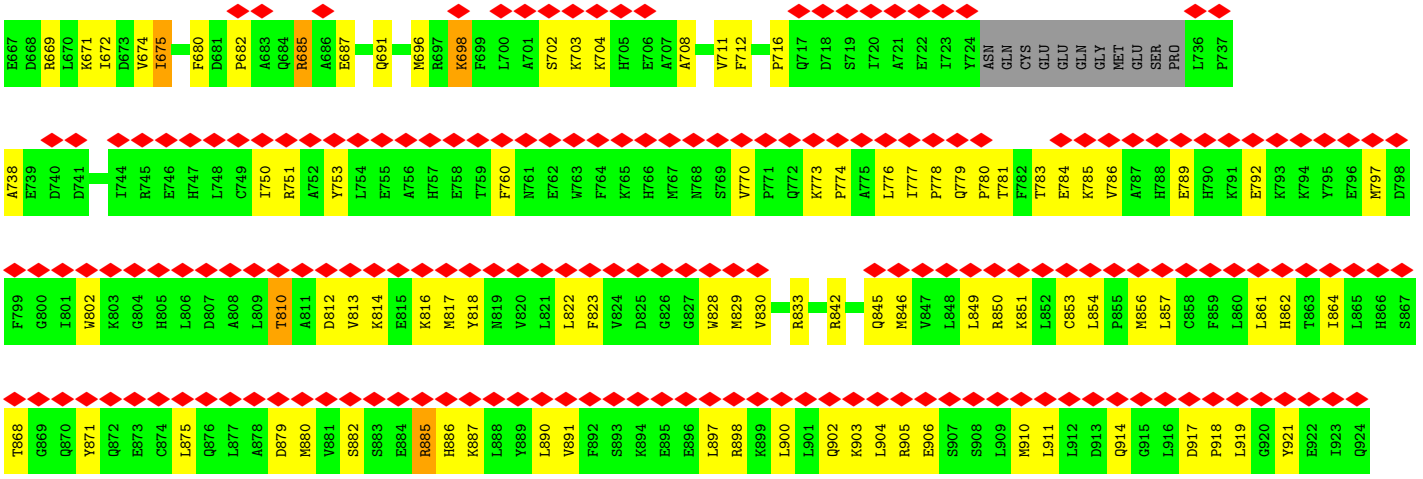
• Molecule 22: NUP107 CTD

Chain T3:



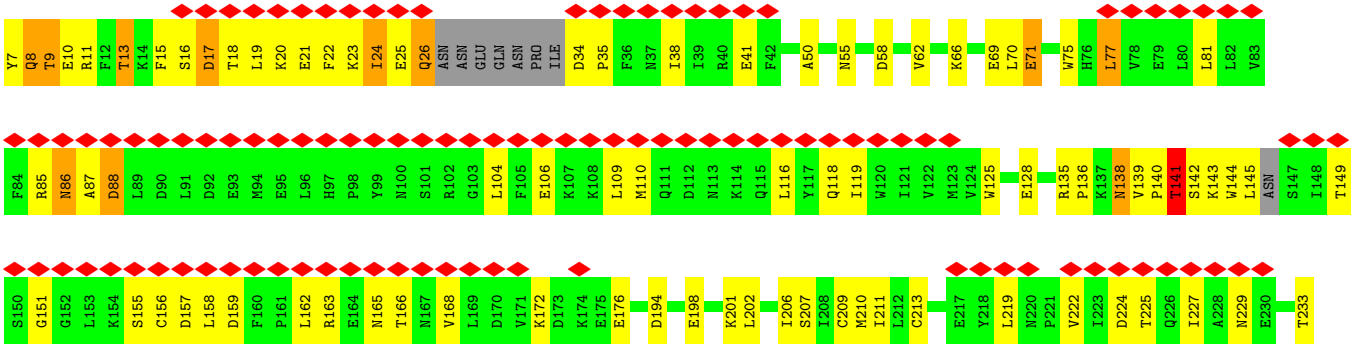
• Molecule 22: NUP107 CTD

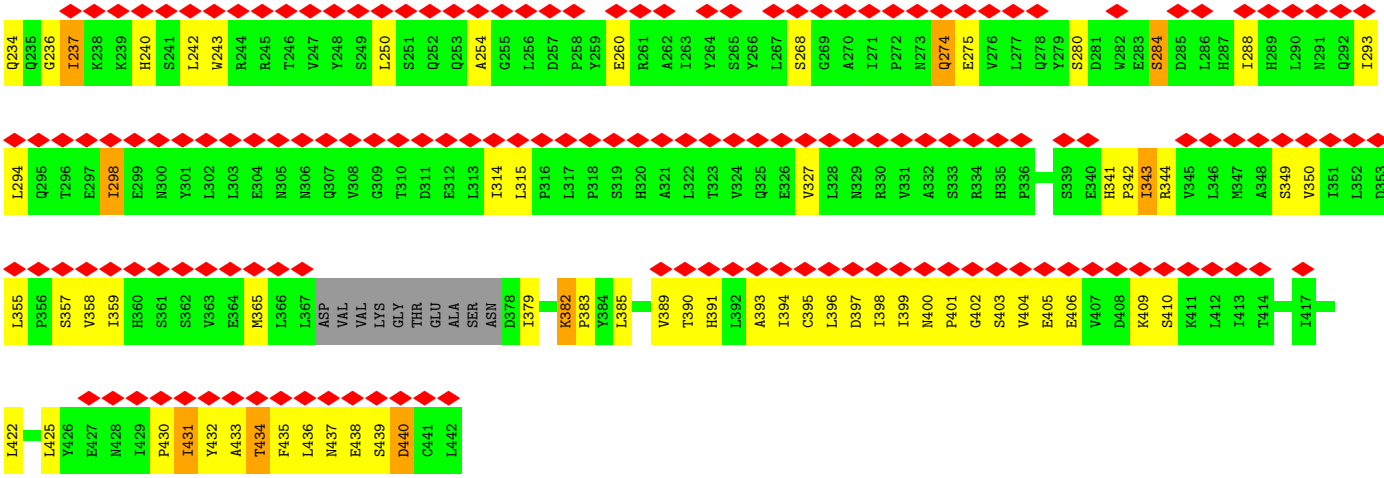
Chain T4:



• Molecule 23: NUP107 NTD

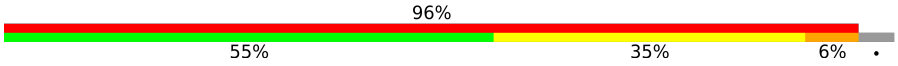
Chain U1:

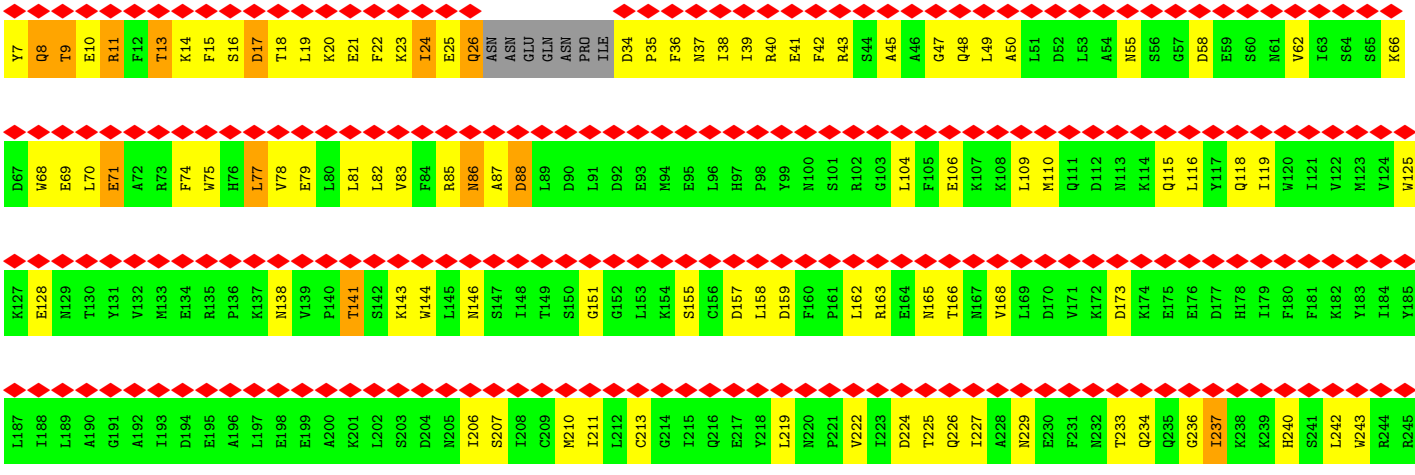




• Molecule 23: NUP107 NTD

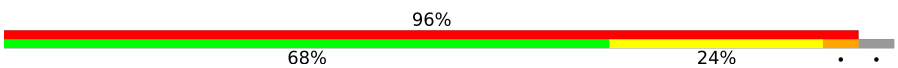
Chain U2:

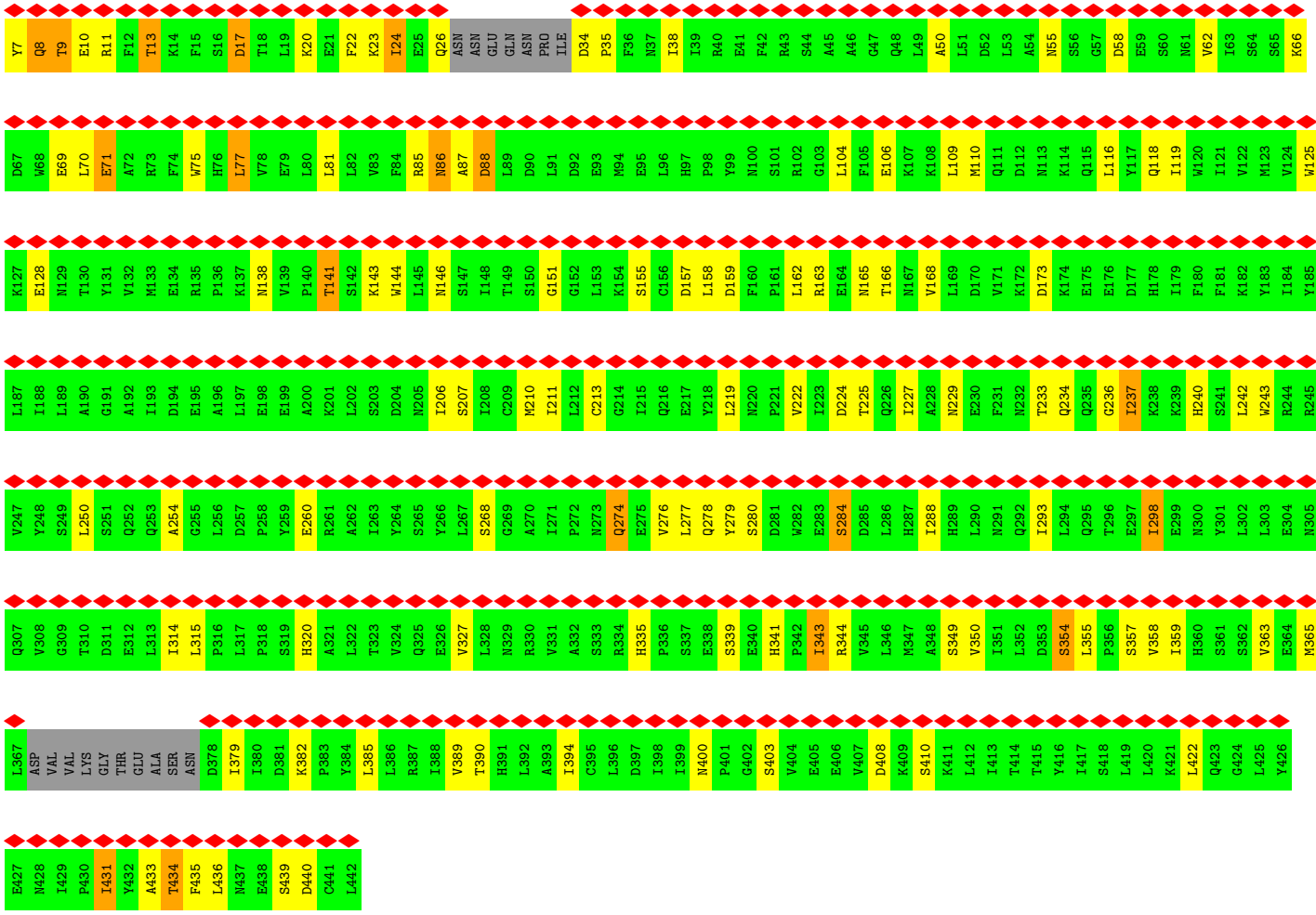




• Molecule 23: NUP107 NTD

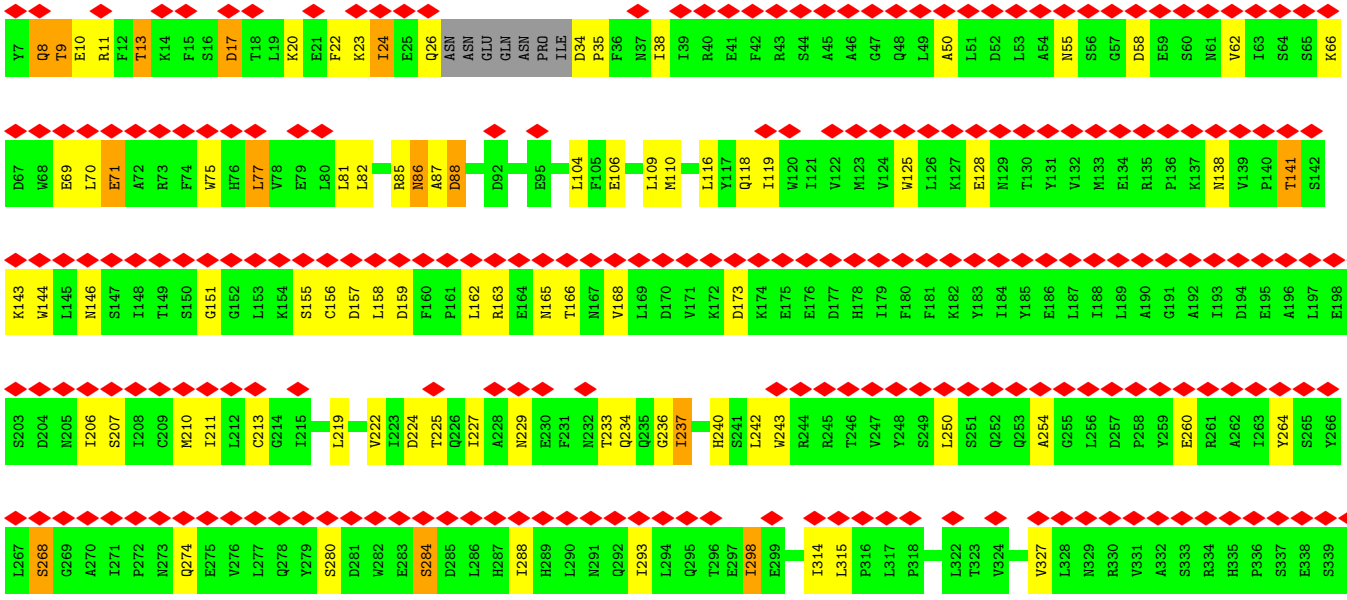
Chain U3:

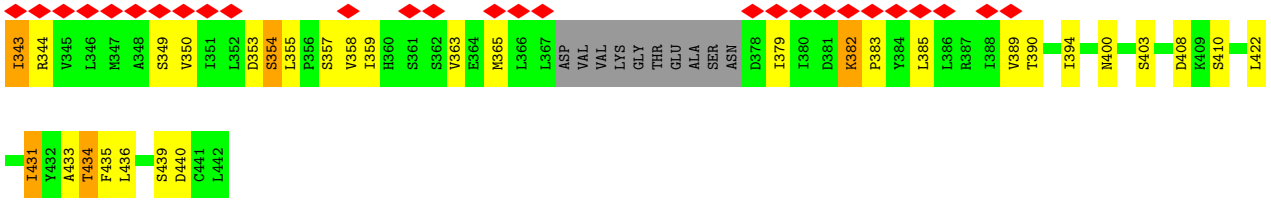




• Molecule 23: NUP107 NTD

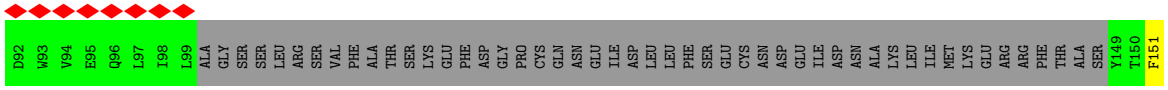
Chain U4:

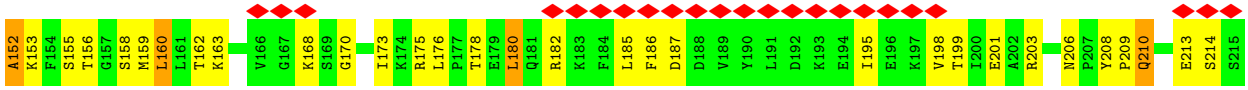


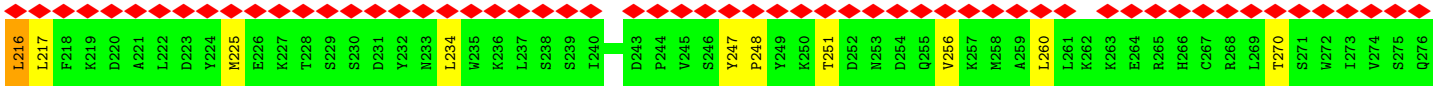


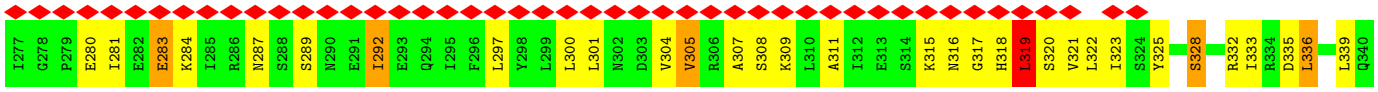
• Molecule 24: NUP96

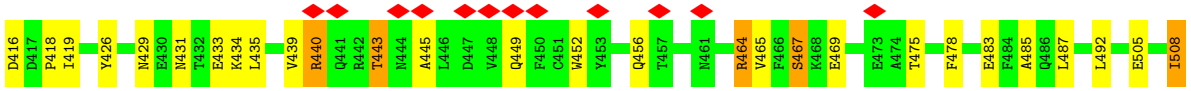
Chain V1:

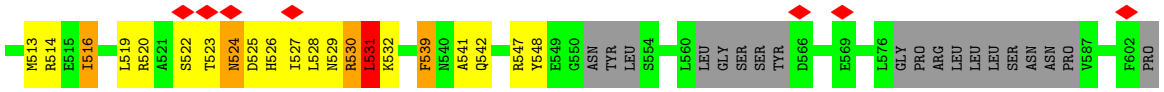


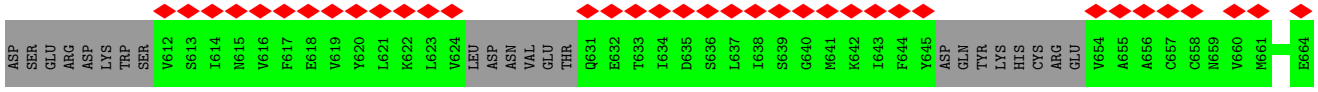


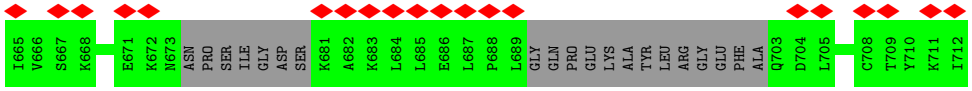






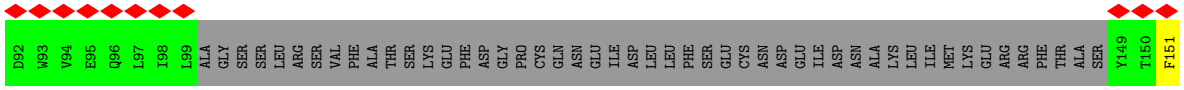


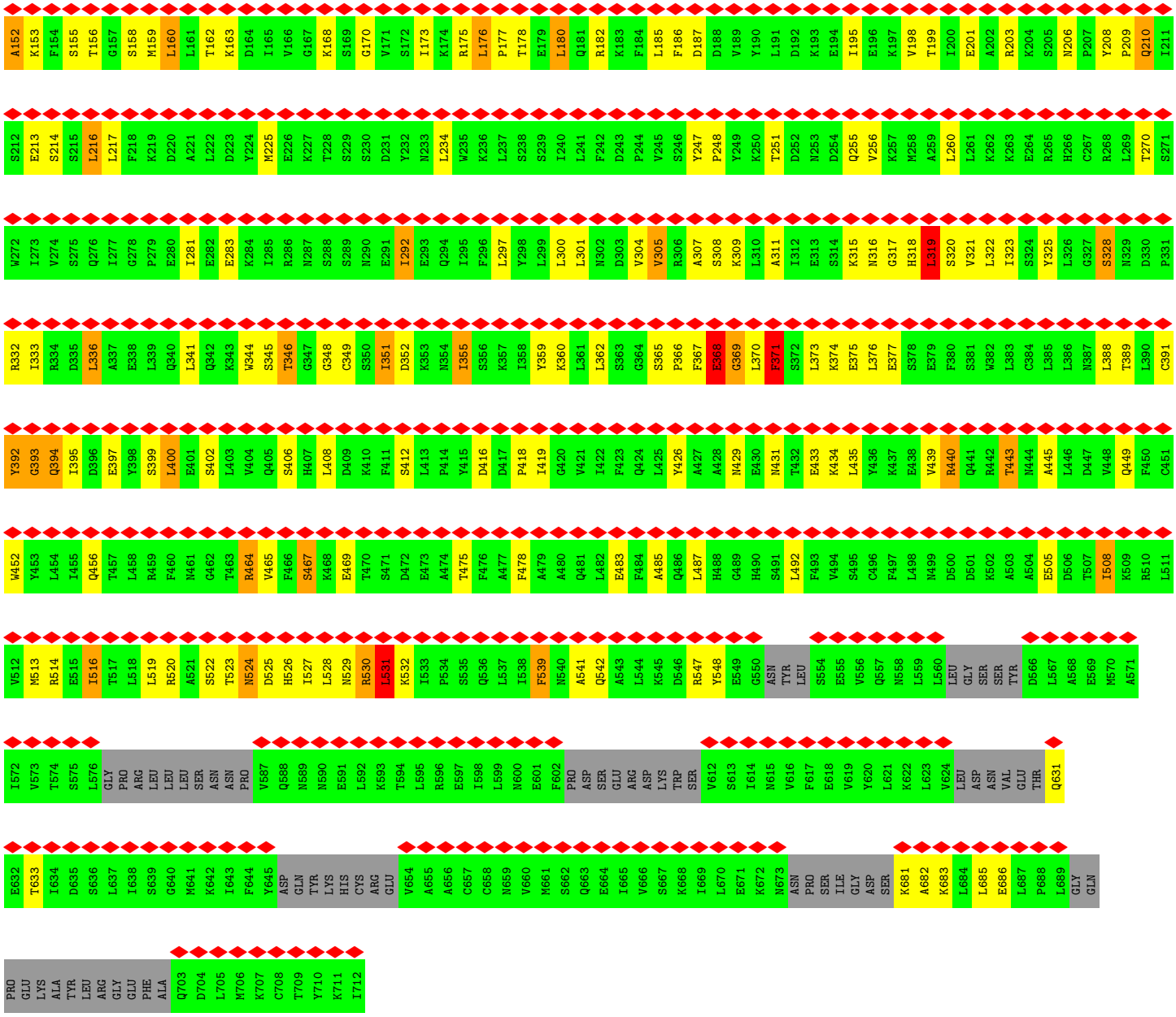




• Molecule 24: NUP96

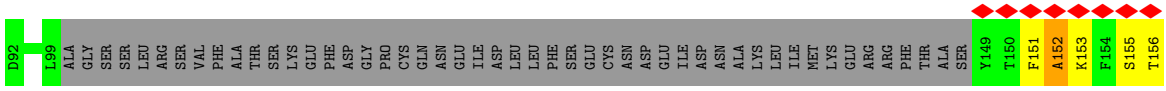
Chain V2:

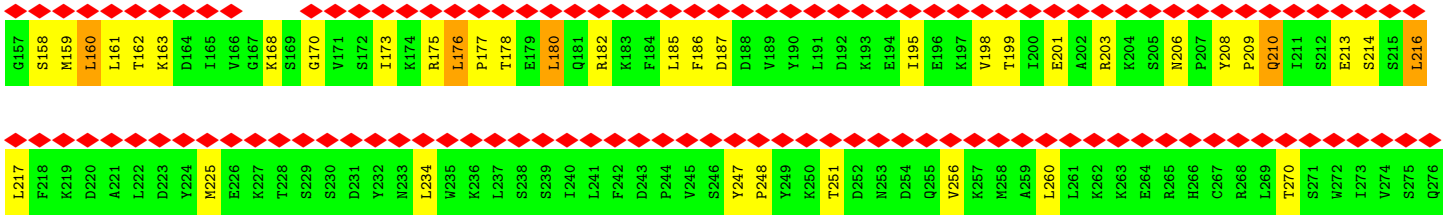


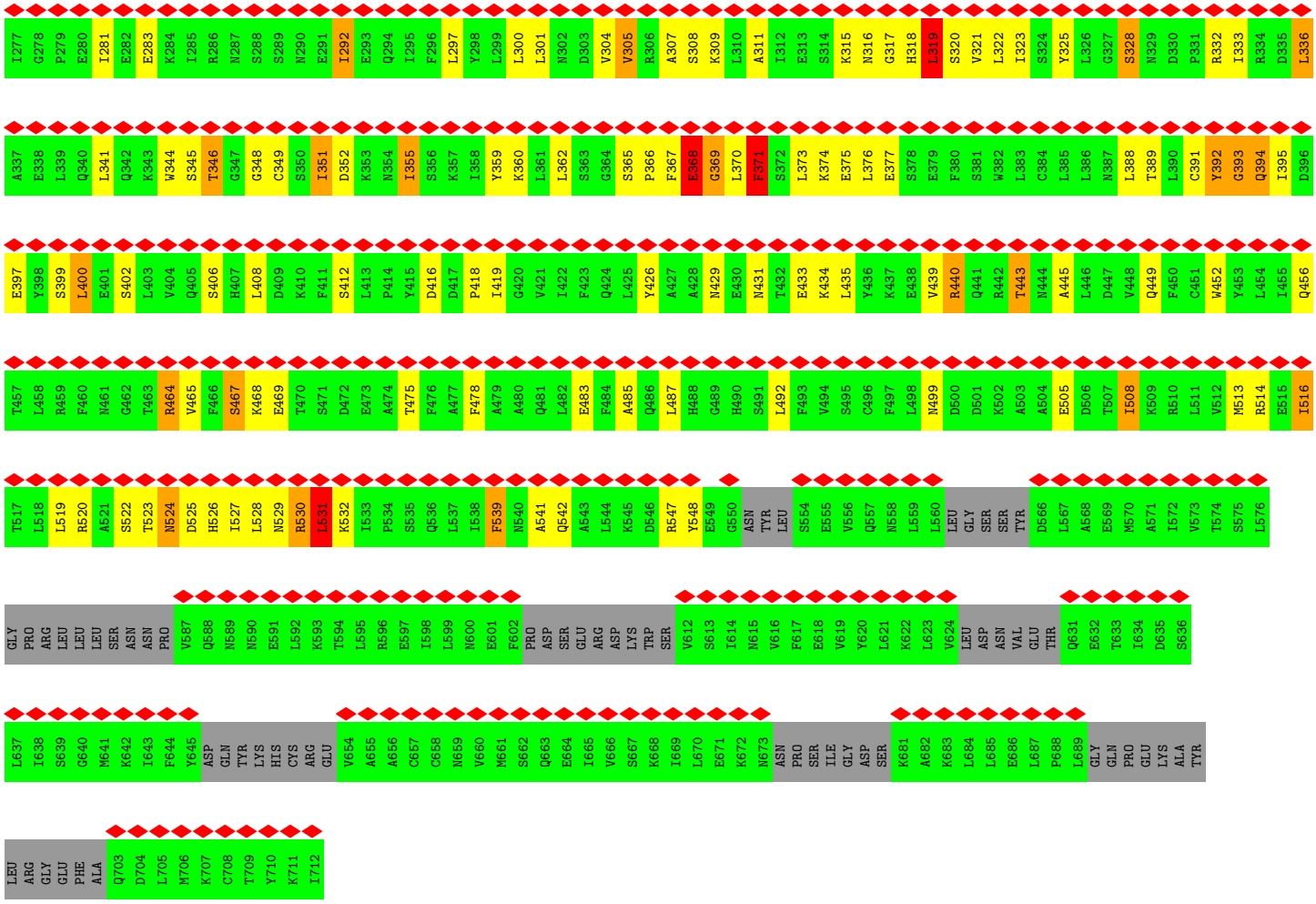


• Molecule 24: NUP96

Chain V3:

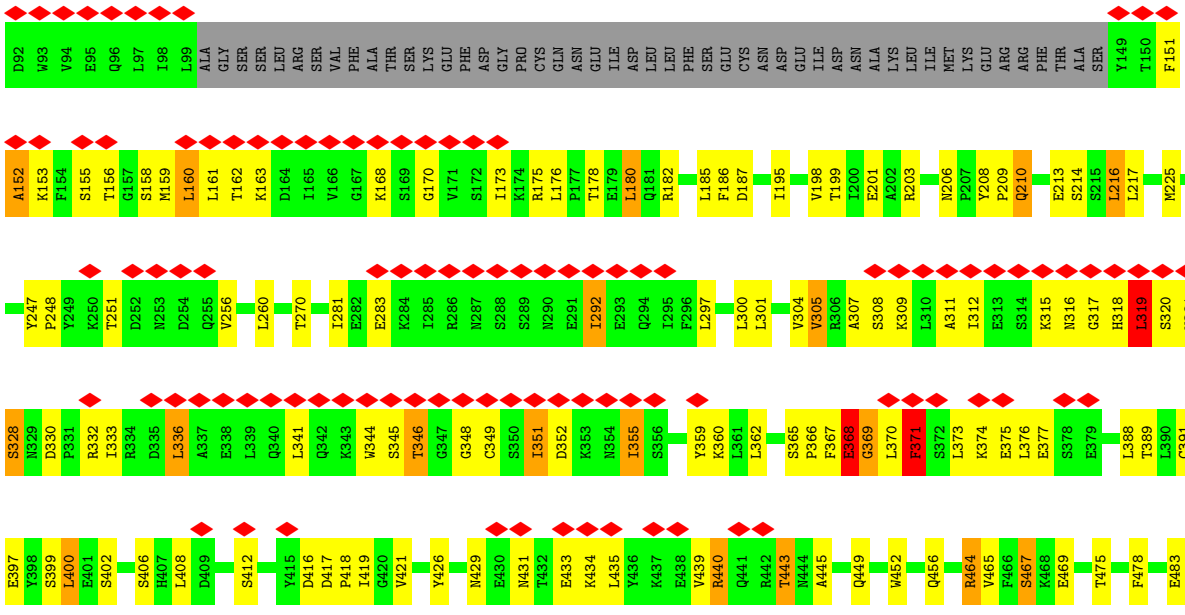


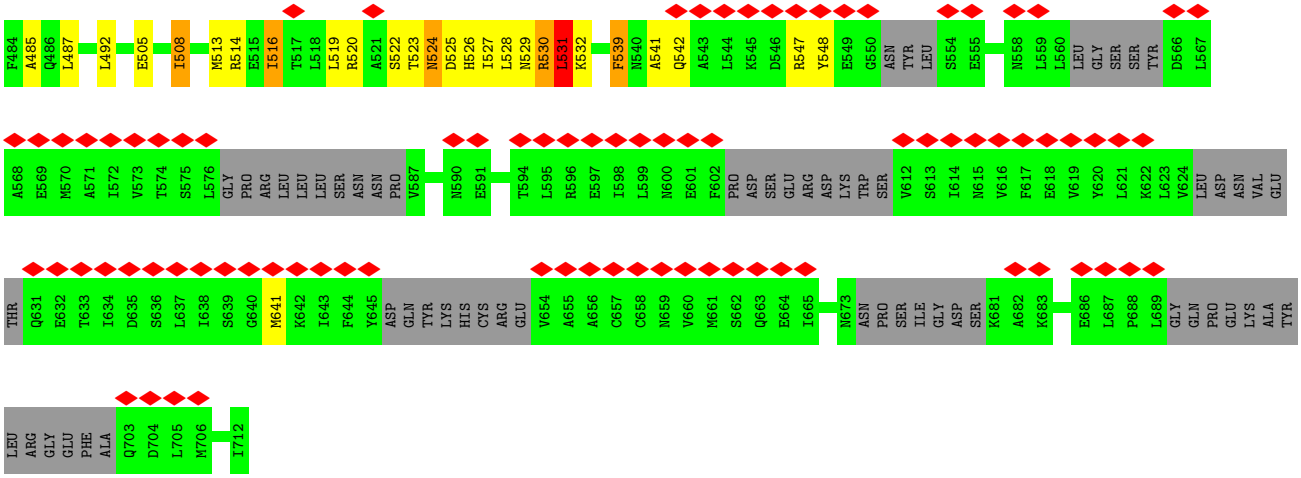




• Molecule 24: NUP96

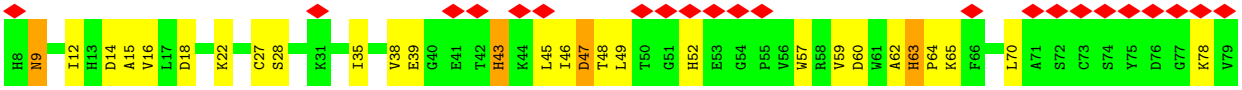
Chain V4:

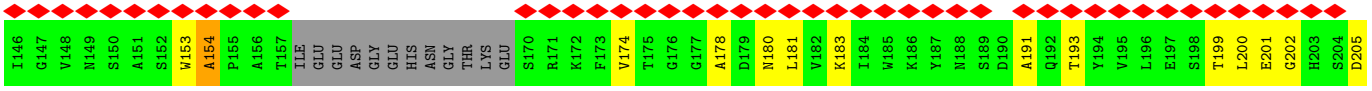


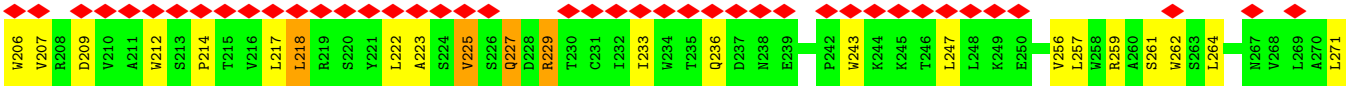


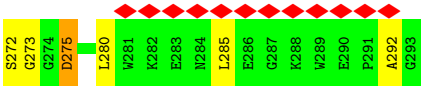
• Molecule 25: SEC13

Chain W1:



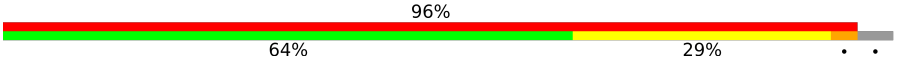


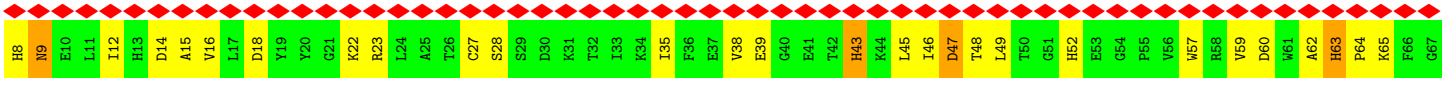


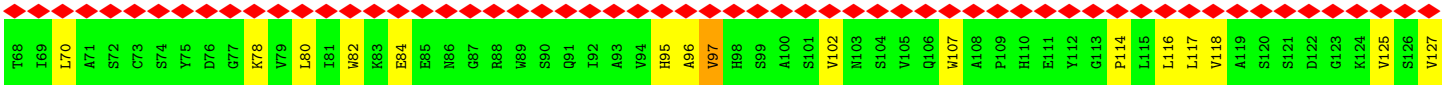


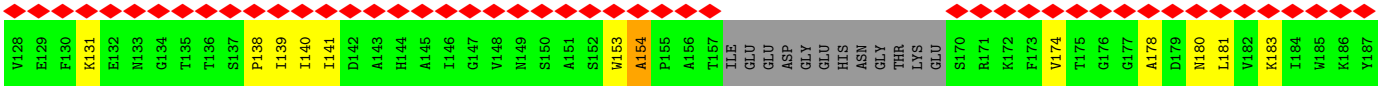
• Molecule 25: SEC13

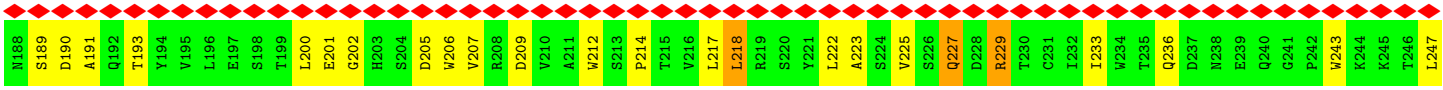
Chain W2:

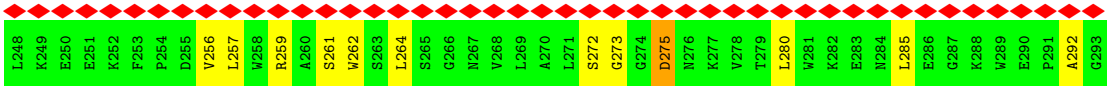






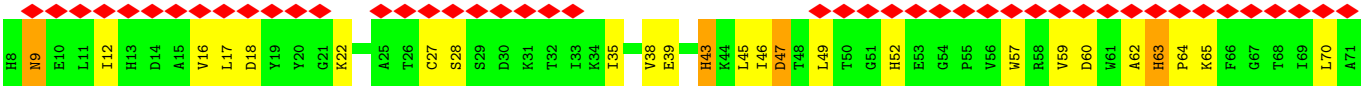


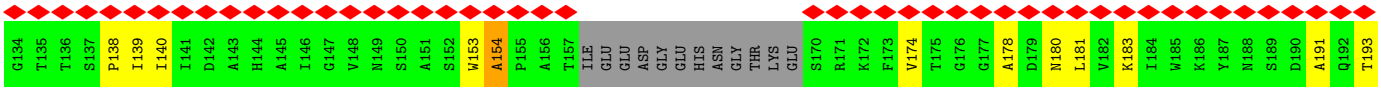


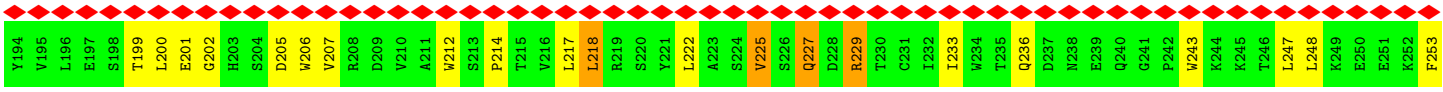


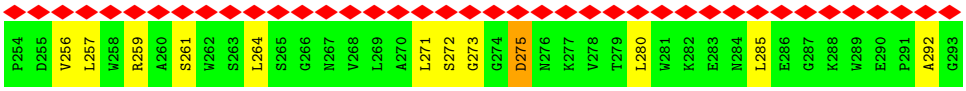
• Molecule 25: SEC13

Chain W3:



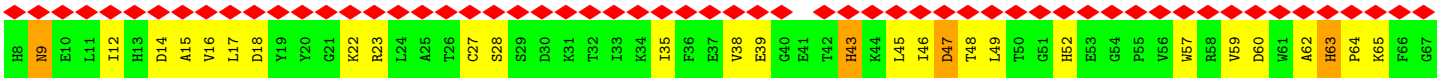


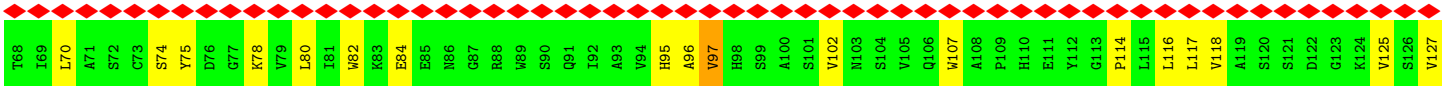


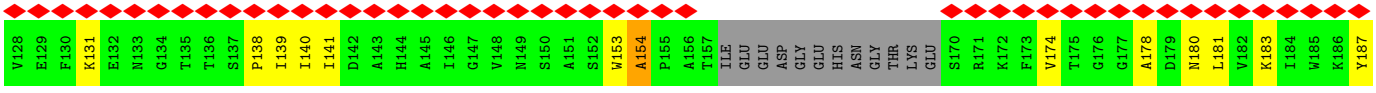


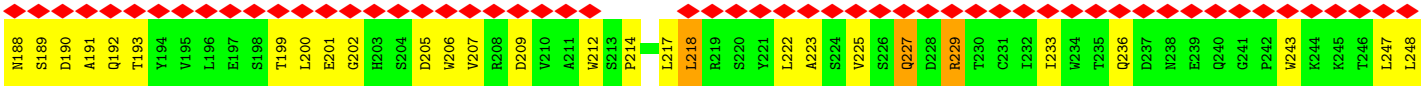
• Molecule 25: SEC13

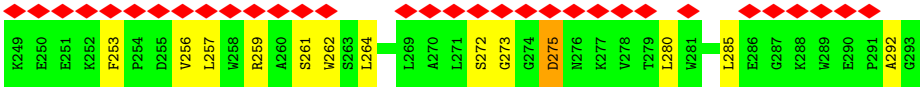
Chain W4:





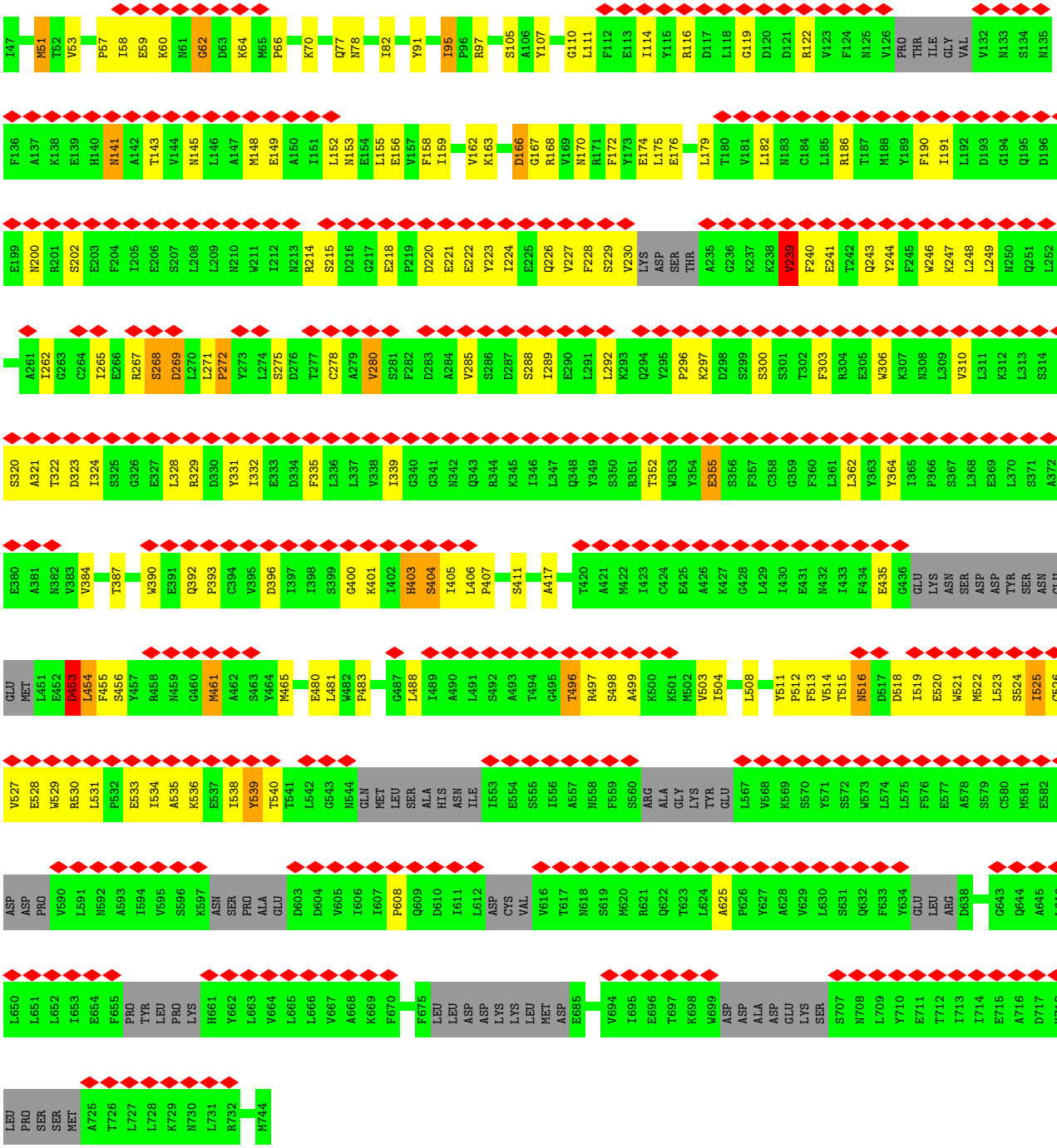






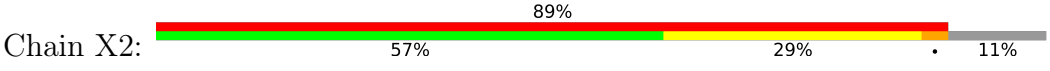
• Molecule 26: NUP75

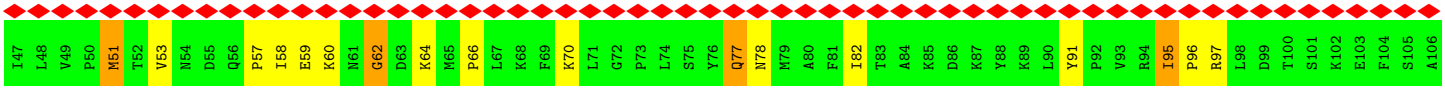
Chain X1:

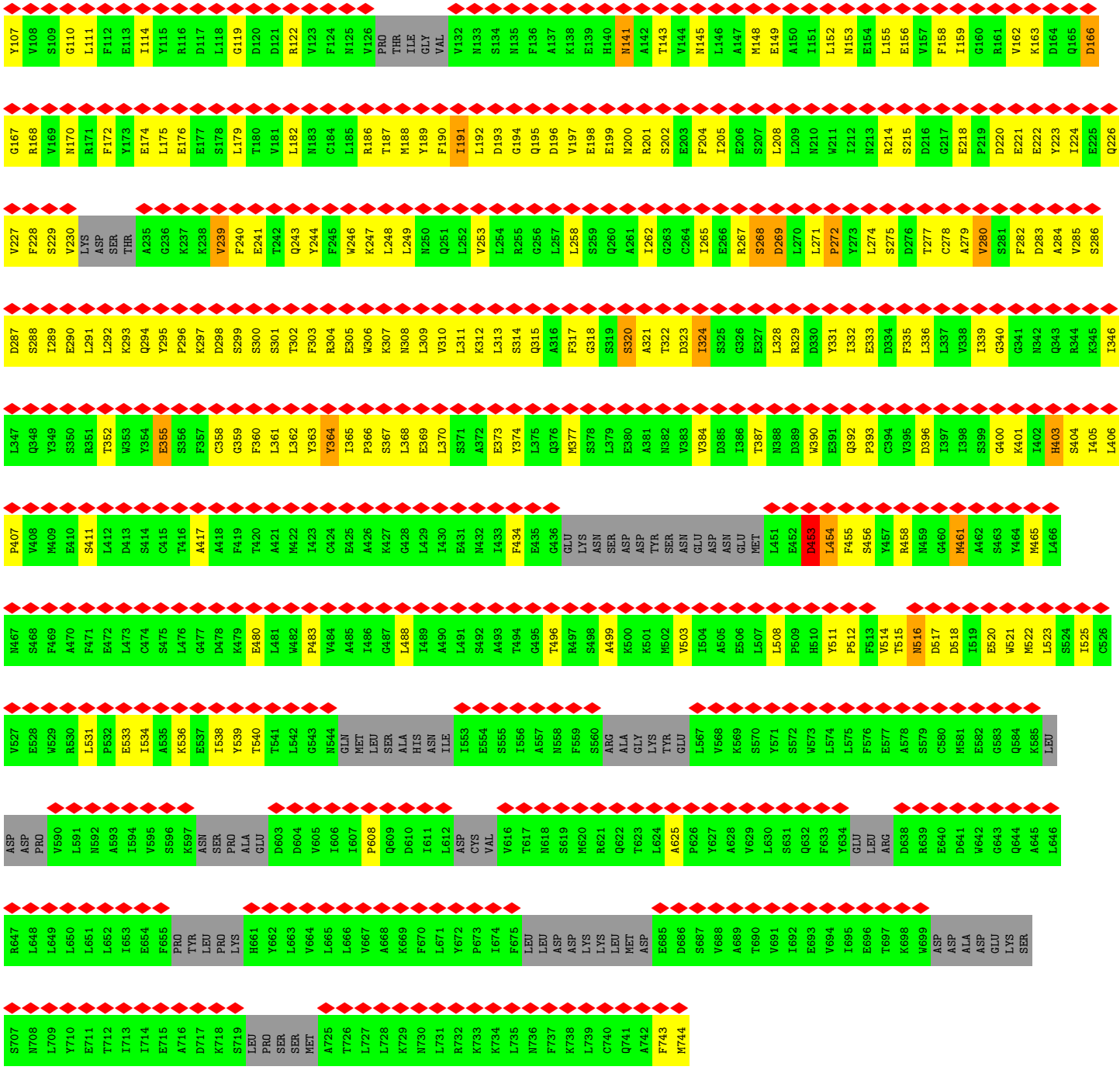


• Molecule 26: NUP75

Chain X2:

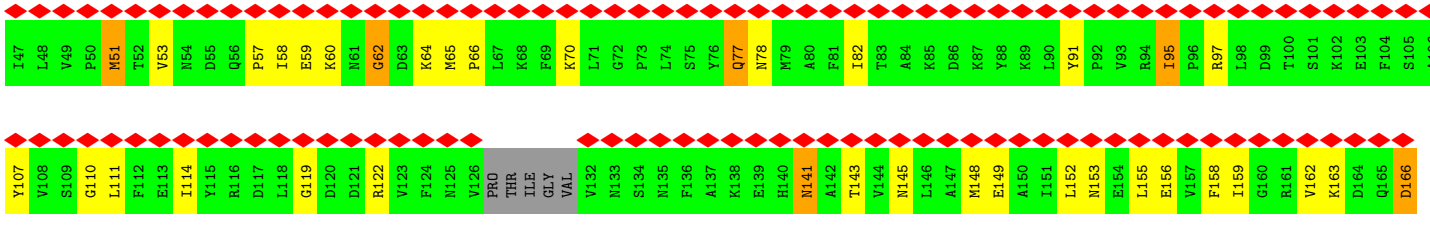


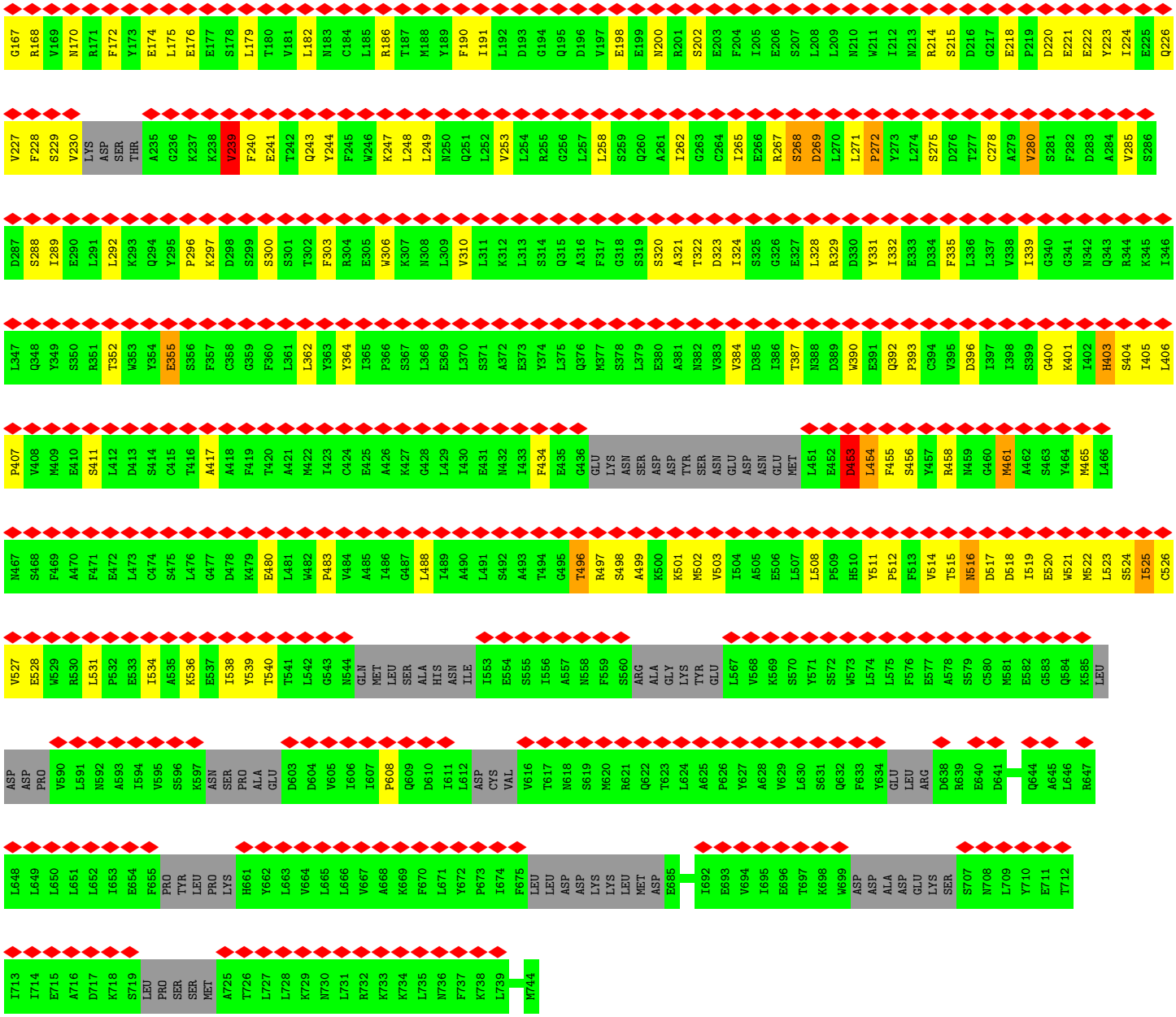




- Molecule 26: NUP75

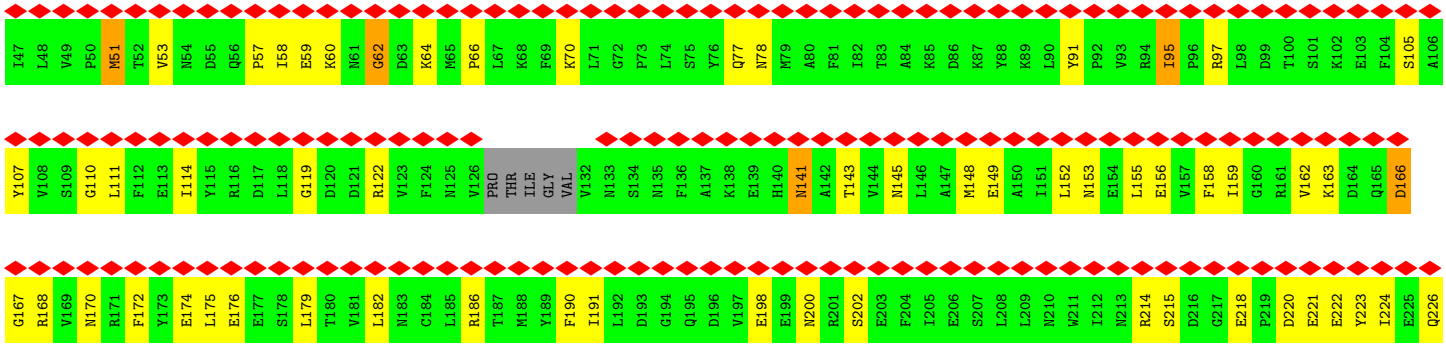
Chain X3:

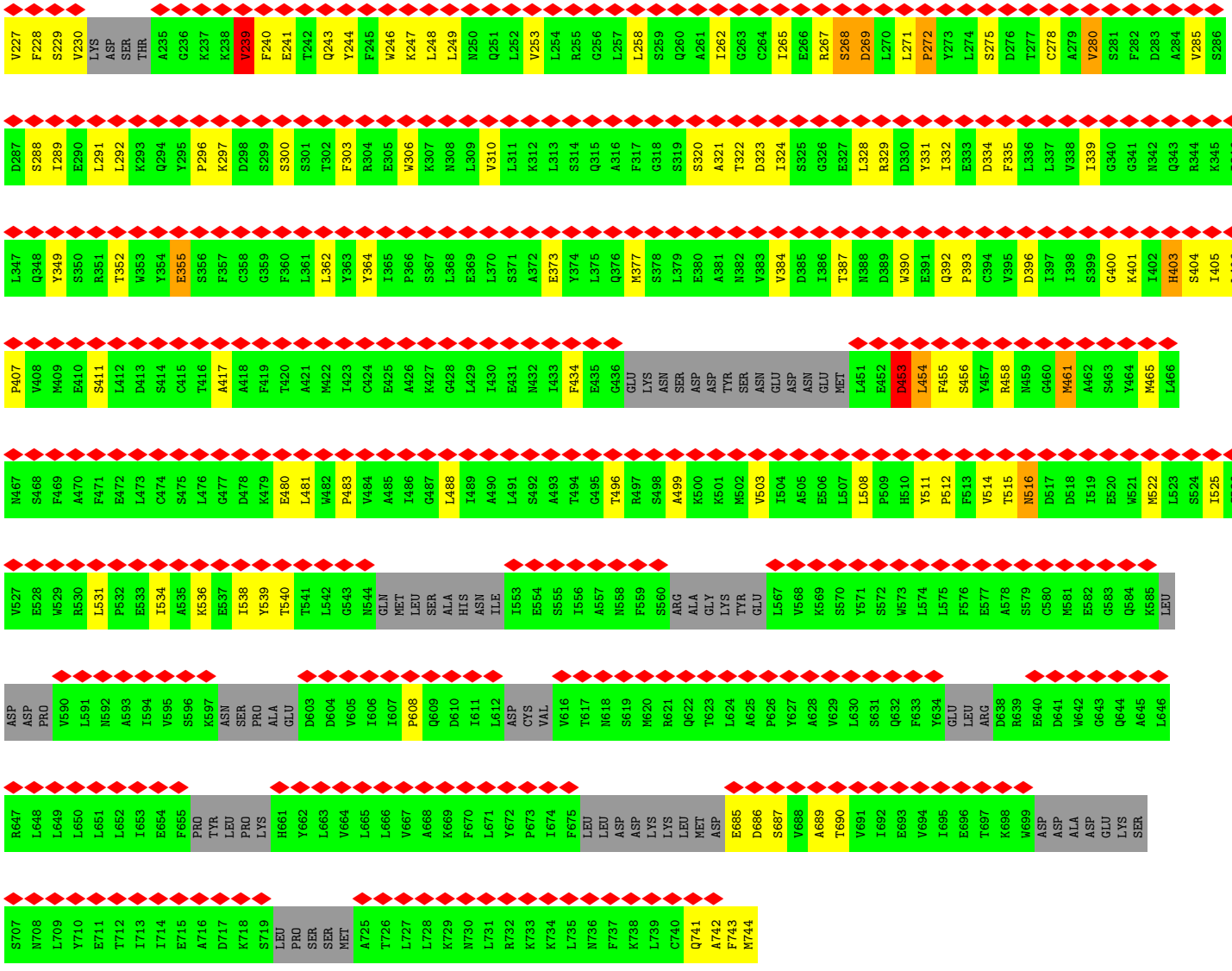




- Molecule 26: NUP75

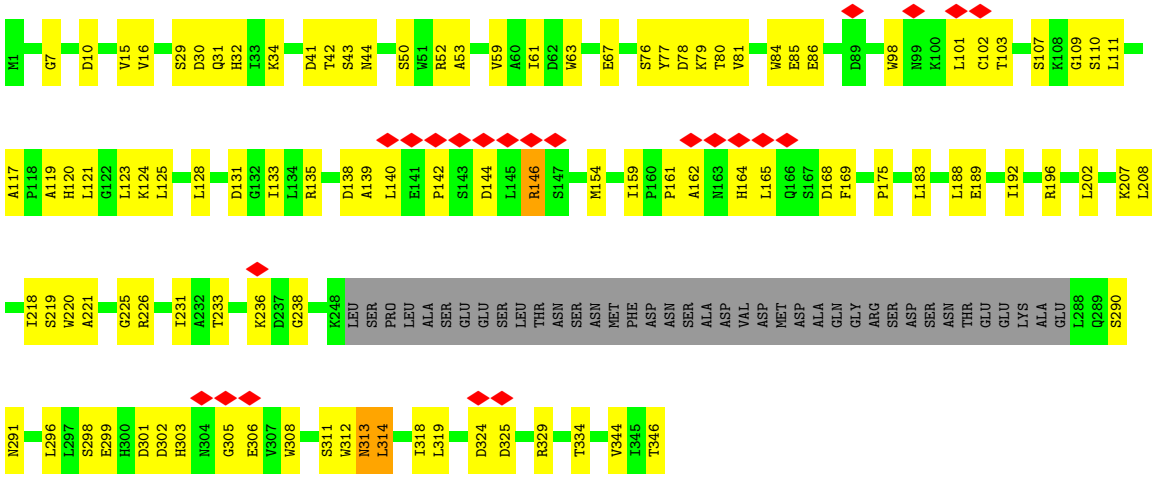
Chain X4:





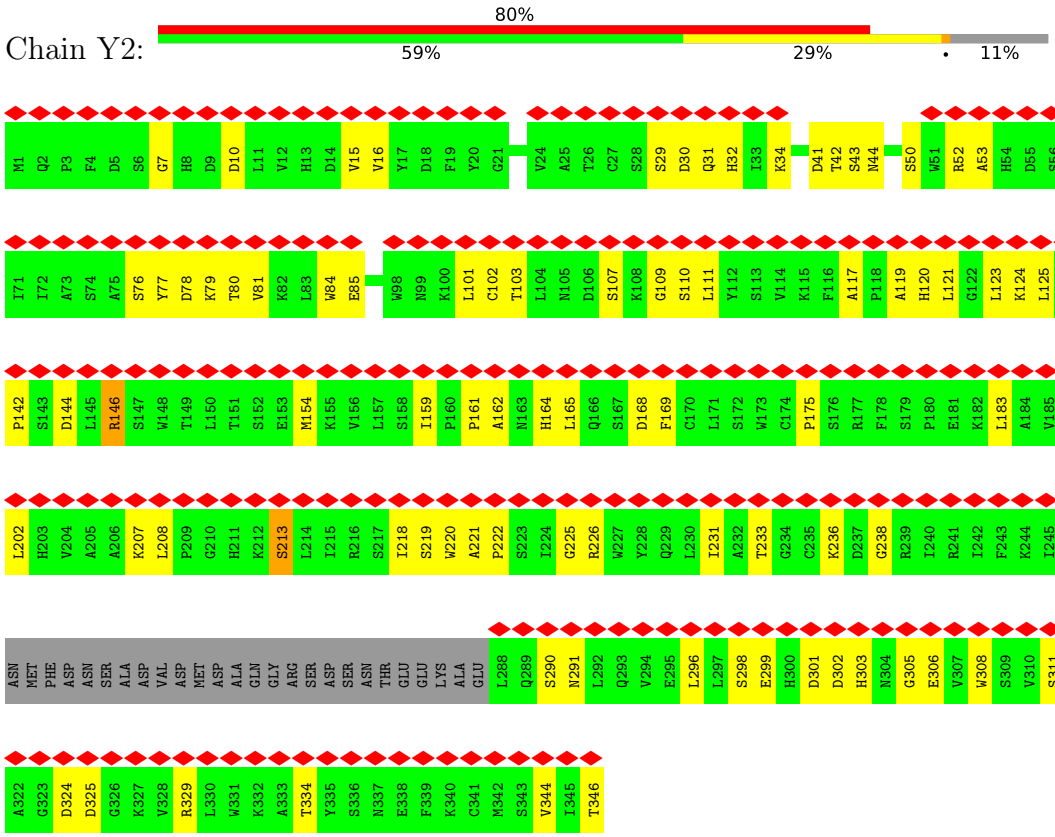
• Molecule 27: SEH1

Chain Y1:



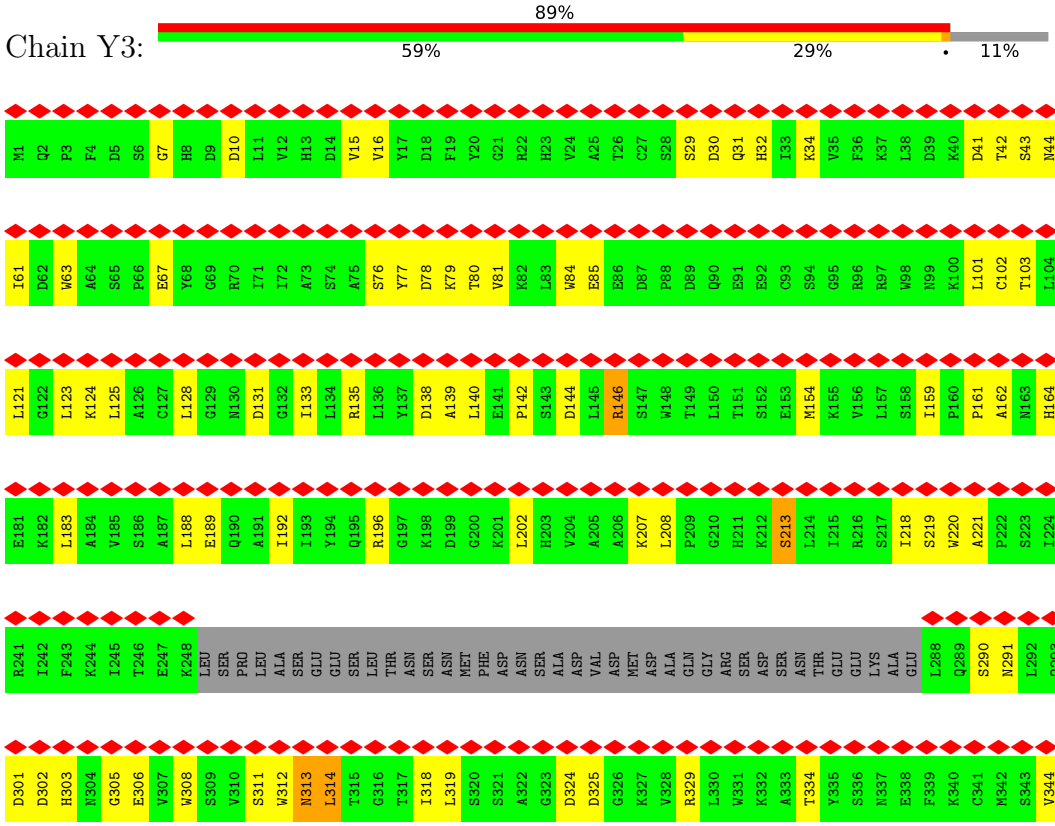
• Molecule 27: SEH1

Chain Y2:



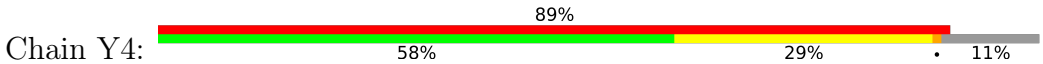
• Molecule 27: SEH1

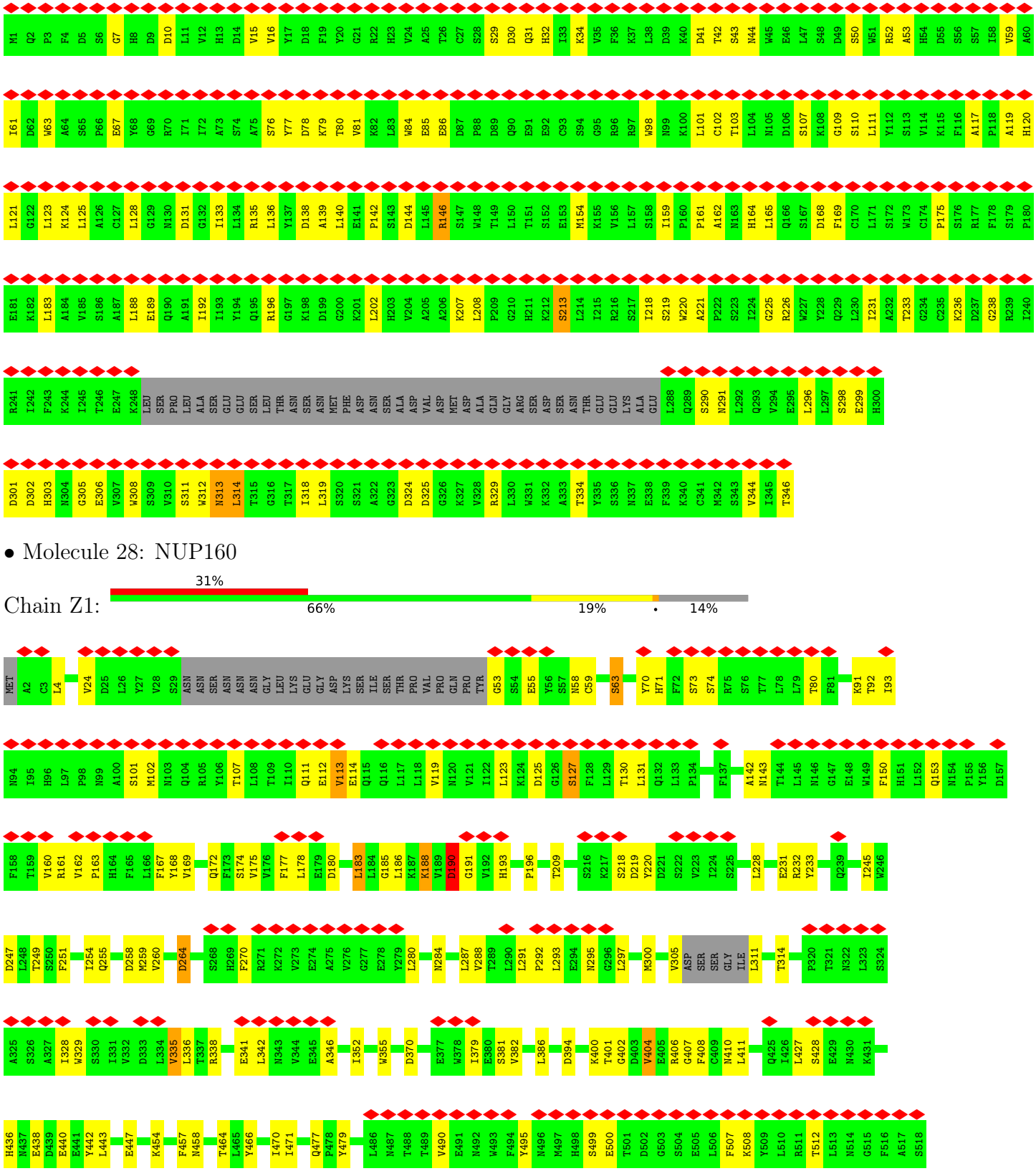
Chain Y3:



- Molecule 27: SEH1

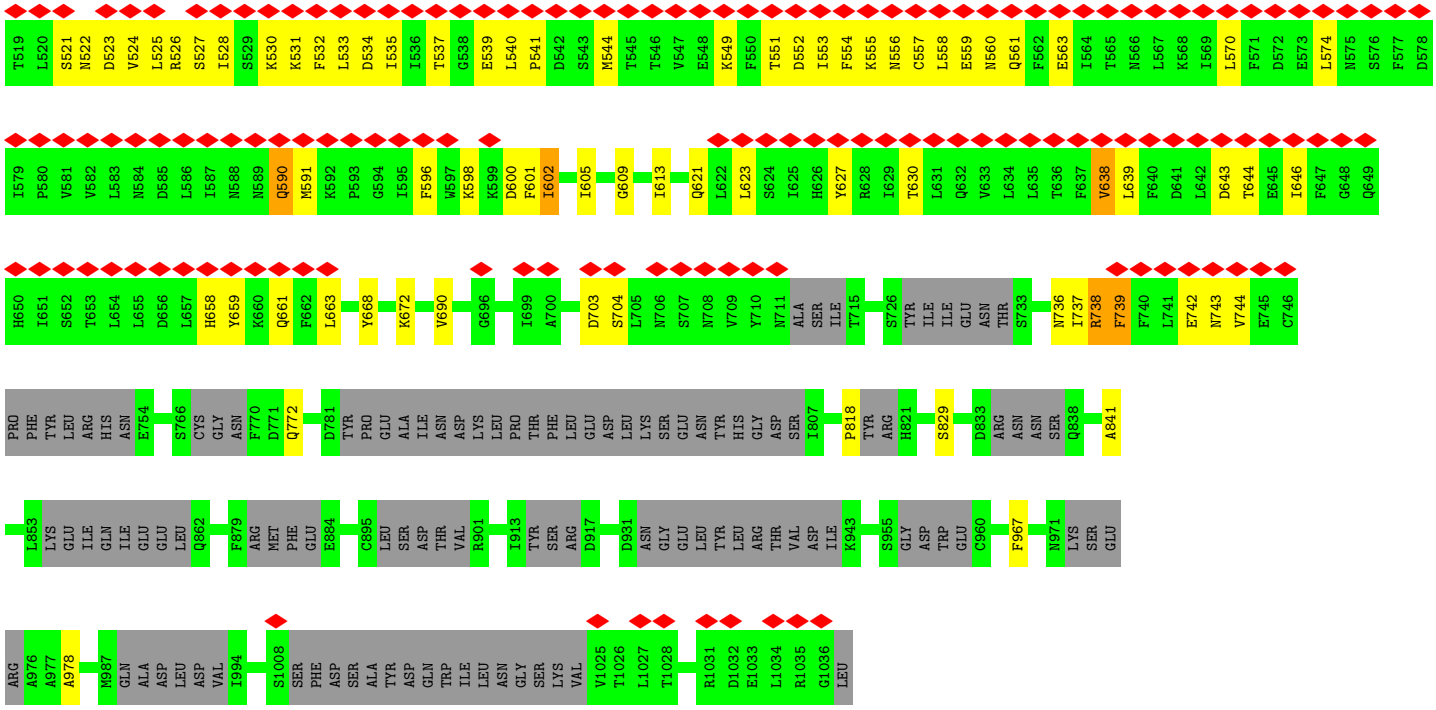
Chain Y4:





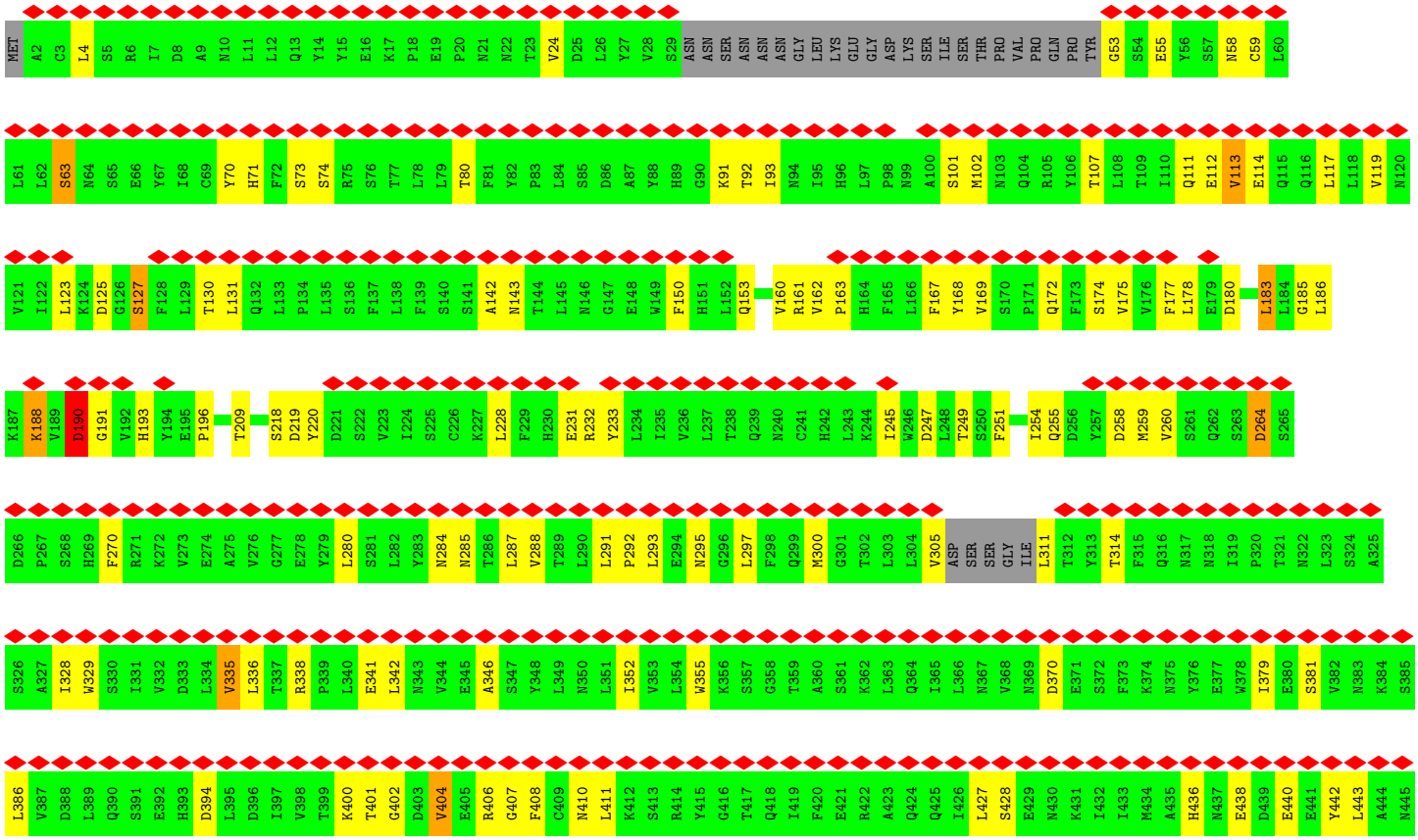
- Molecule 28: NUP160

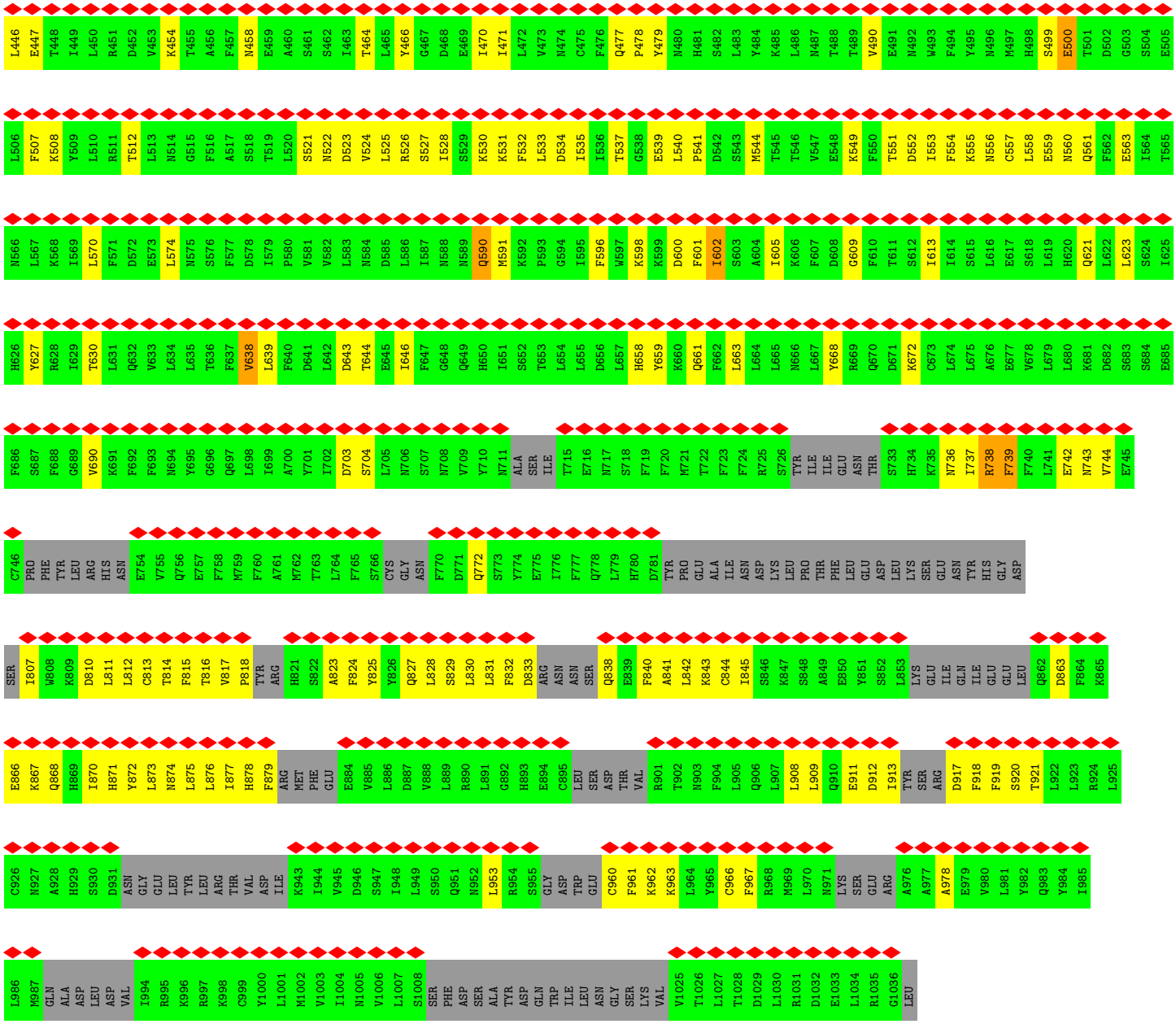
Chain Z1:



• Molecule 28: NUP160

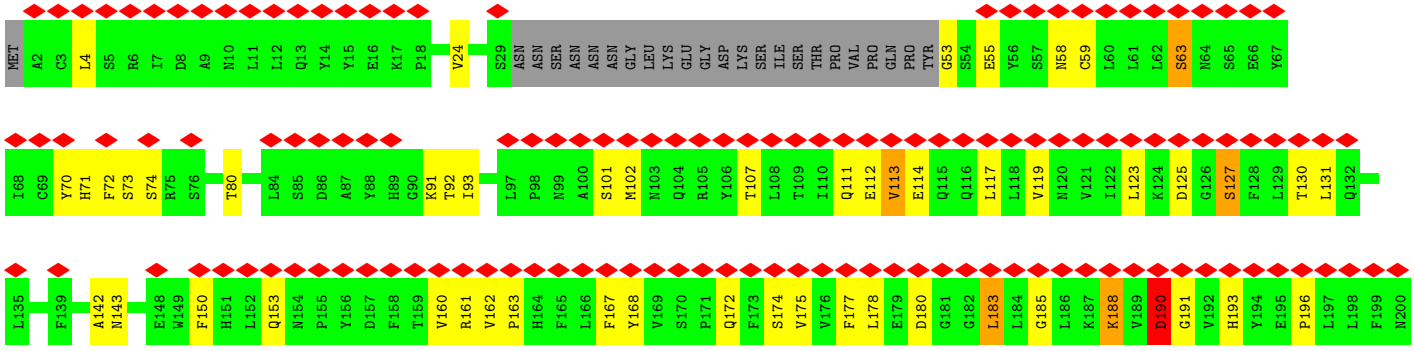
Chain Z2:

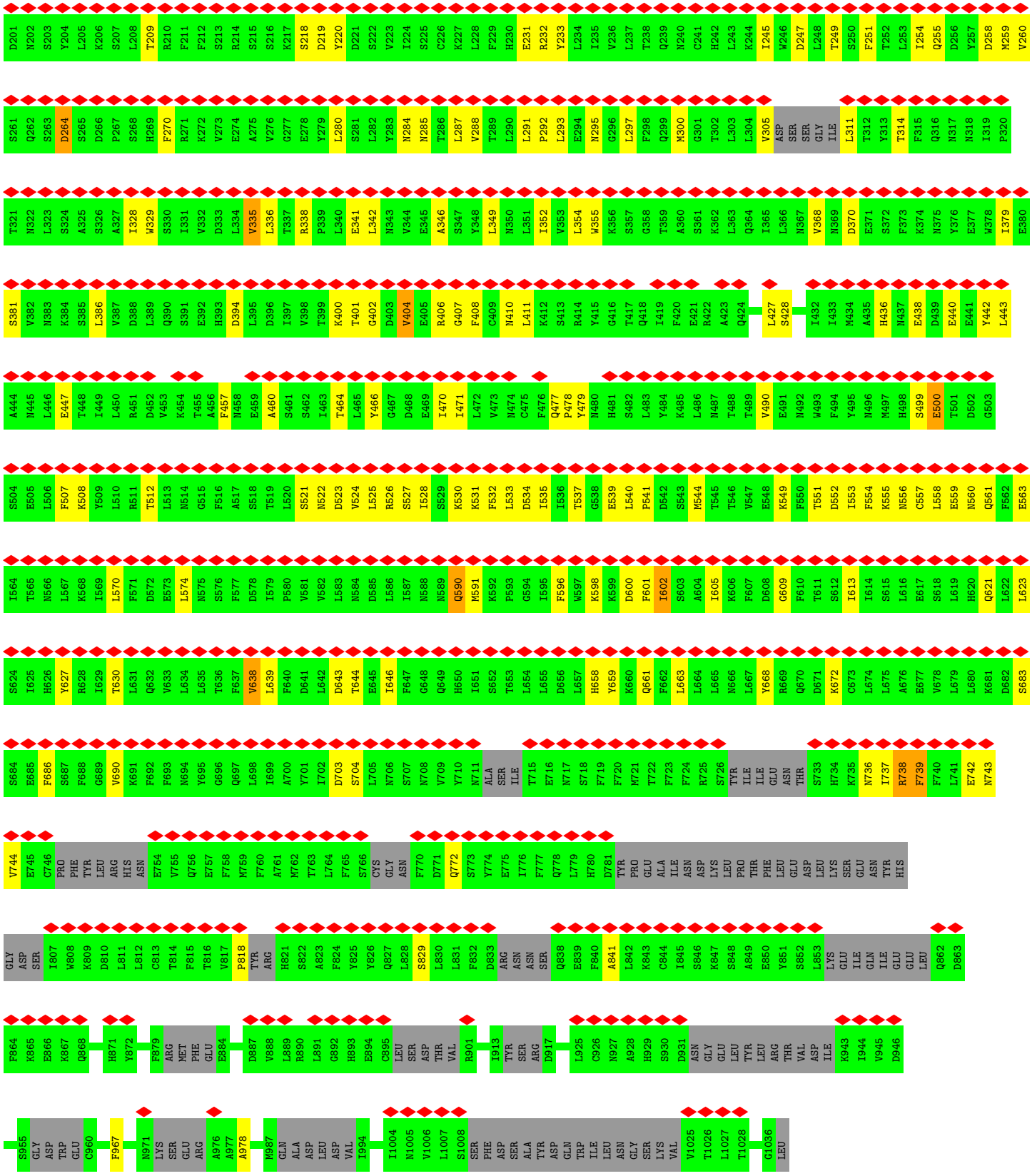




• Molecule 28: NUP160

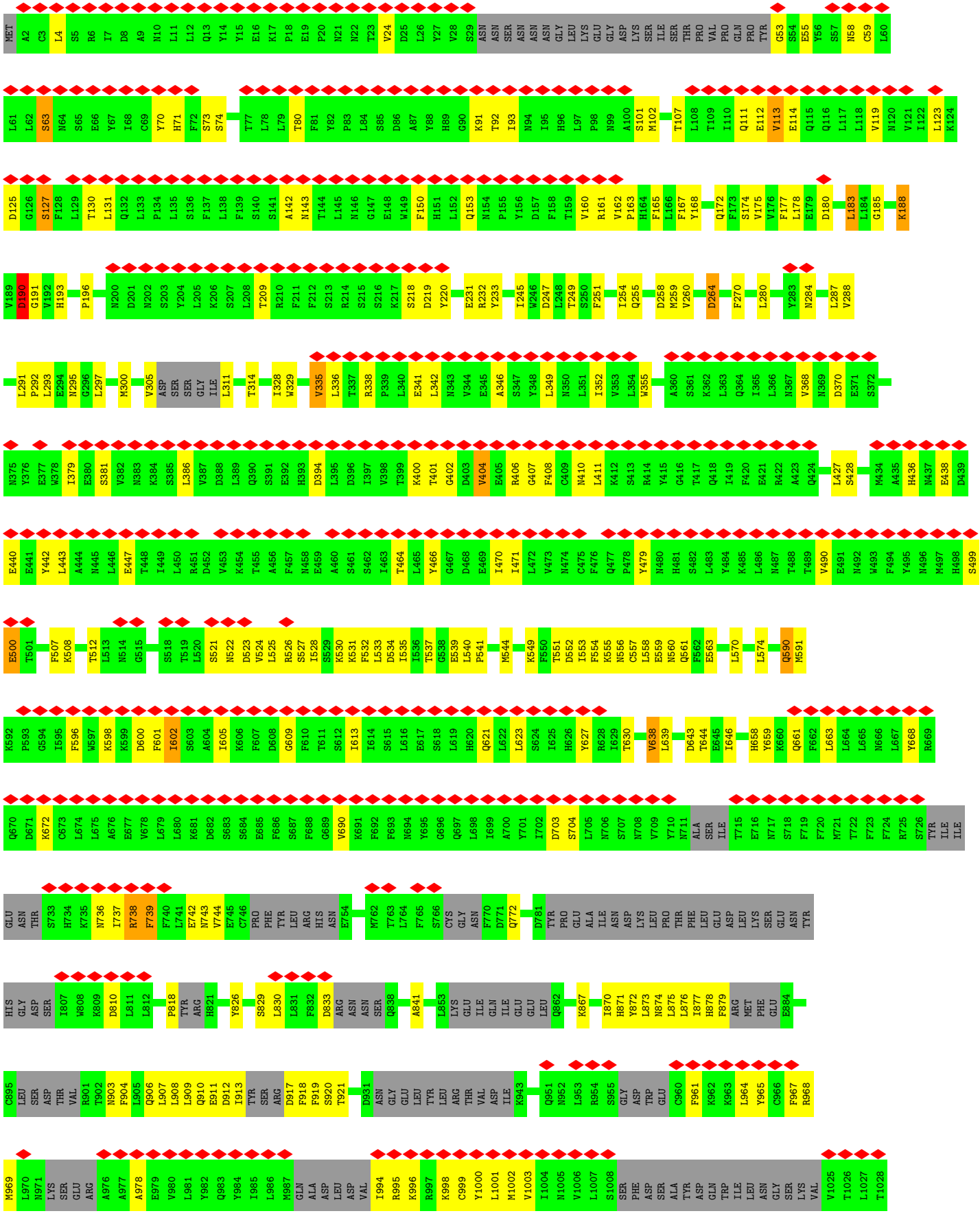
Chain Z3:





• Molecule 28: NUP160

Chain Z4: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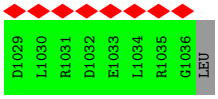
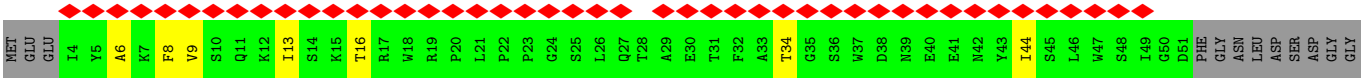
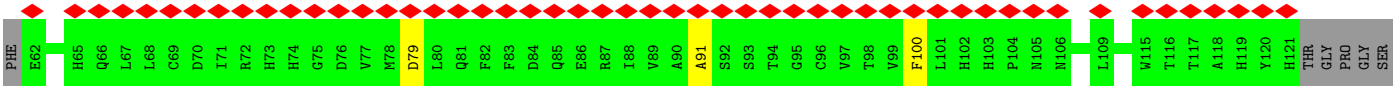
L61 L62 S63 N64 S65 E66 Y67 I68 C69 Y70 H71 F72 S73 S74 T77 L78 L79 T80 F81 Y82 P83 L84 S85 D86 A87 Y88 H89 G90 K91 T92 I93 N94 I95 H96 L97 P98 N99 A100 S101 M102 T107 L108 T109 I110 Q111 E112 V113 E114 Q115 Q116 L117 L118 V119 N120 V121 I122 L123 K124
D125 G126 S127 F128 L129 T130 L131 Q132 L133 P134 L135 S136 F137 L138 F139 S140 S141 A142 N143 T144 L145 N146 G147 E148 W149 F150 H151 L152 Q153 N154 P155 Y156 D157 F158 T159 V160 R161 V162 P163 H164 F165 L166 F167 Y168 Q172 F173 S174 V175 V176 F177 L178 E179 D180 L183 L184 G185 K188
V189 D190 G191 V192 H193 P196 N200 D201 N202 S203 Y204 L205 K206 S207 L208 T209 R210 F211 F212 S213 R214 S215 S216 K217 S218 D219 Y220 E231 R232 Y233 I245 W246 D247 L248 T249 S250 F251 I254 Q255 D258 M259 V260 D264 F270 L280 Y283 N284 L287 V288
L291 P292 L293 E294 N295 G296 L297 M300 V305 ASP SER SER GLY ILE L311 T314 I328 W329 V335 L336 T337 R338 P339 L340 E341 L342 N343 V344 E345 A346 S347 Y348 L349 N350 L351 I352 V353 L354 W355 A360 S361 K362 L363 Q364 I365 L366 N367 V368 N369 D370 E371 S372
N375 Y376 E377 W378 I379 E380 S381 V382 N383 K384 S385 L386 V387 D388 L389 Q390 S391 E392 H393 D394 L395 D396 I397 V398 T399 K400 T401 G402 D403 V404 E405 R406 G407 F408 C409 N410 L411 K412 S413 R414 Y415 G416 T417 Q418 I419 F420 E421 R422 A423 Q424 L427 S428 M434 A435 H436 M437 E438 D439
E440 E441 Y442 L443 A444 N445 L446 E447 T448 I449 L450 R451 D452 V453 K454 T455 A456 F457 N458 E459 A460 S461 S462 I463 T464 L465 Y466 G467 D468 E469 I470 I471 L472 V473 N474 C475 F476 Q477 P478 Y479 N480 H481 S482 L483 Y484 K485 L486 N487 T488 T489 V490 E491 N492 W493 F494 Y495 N496 M497 H498 S499
E500 T501 F507 K508 T512 L513 N514 G515 S518 T519 L520 S521 N522 D523 V524 L525 R526 S527 I528 S529 K530 K531 F532 L533 D534 I535 I536 T537 G538 E539 L540 P541 M544 K549 F550 T551 D552 I553 F554 K555 N556 C557 L558 E559 N560 Q561 F562 E563 L570 L574 Q590 M591
K592 P593 G594 I595 F596 W597 K598 K599 D600 F601 I602 S603 A604 I605 K606 F607 D608 G609 F610 T611 S612 I613 I614 S615 L616 E617 S618 L619 H620 Q621 L622 L623 S624 I625 H626 Y627 R628 I629 T630 V638 L639 D643 T644 E645 I646 H658 Y659 K660 Q661 F662 L663 L664 L665 N666 L667 Y668 R669
Q670 D671 K672 C673 L674 L675 A676 E677 V678 L679 L680 K681 D682 S683 S684 E685 F686 S687 F688 G689 V690 K691 F692 F693 N694 Y695 G696 Q697 L698 I699 A700 Y701 I702 D703 S704 L705 N706 S707 N708 V709 Y710 N711 ALA SER ILE T715 E716 N717 S718 F719 F720 M721 T722 F723 F724 R725 S726 TYR ILE ILE
GLU ASN THR S733 H734 K735 N736 I737 R738 F739 F740 L741 E742 N743 V744 E745 C746 PRO PHE TYR LEU ARG HIS ASN E754 M762 T763 L764 F765 S766 CYS GLY ASN F770 D771 Q772 D781 TYR PRO GLU ALA ILE ASN ASP LYS LEU PRO THR PHE LEU GLU ASP LEU LYS SER GLU ASN TYR
HIS GLY ASP SER I807 W808 K809 D810 L811 L812 P818 TYR ARG H821 Y826 S829 L830 L831 F832 D833 ARG ASN ASN SER Q838 A841 L853 LYS GLU ILE GLN ILE GLU GLU LEU Q862 K867 I870 H871 Y872 L873 N874 L875 L876 I877 H878 F879 ARG MET PHE GLU E884
C895 LEU SER ASP THR VAL R901 T902 N903 F904 L905 Q906 L907 L908 L909 Q910 E911 D912 I913 TYR SER ARG D917 F918 F919 S920 T921 D931 ASN GLY GLU LEU TYR LEU ARG THR VAL ASP ILE K943 Q951 N952 L953 R954 S955 GLY ASP TRP GLU C960 F961 K962 K963 L964 Y965 C966 F967 R968
M969 L970 N971 LYS SER GLU ARG A976 A977 A978 E979 V980 L981 Y982 Q983 Y984 I985 L986 M987 GLN ALA ASP LEU ASP VAL I994 R995 K996 R997 K998 C999 Y1000 L1001 M1002 V1003 I1004 N1005 V1006 L1007 S1008 SER PHE ASP SER ALA TYR ASP GLN TRP ILE LEU ASN GLY SER LYS VAL V1025 T1026 L1027 T1028

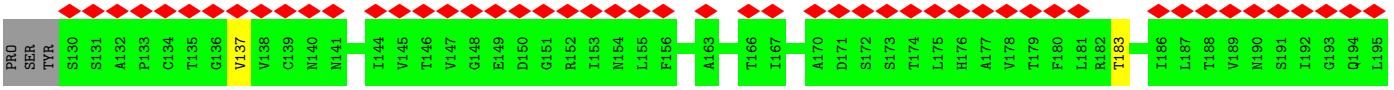


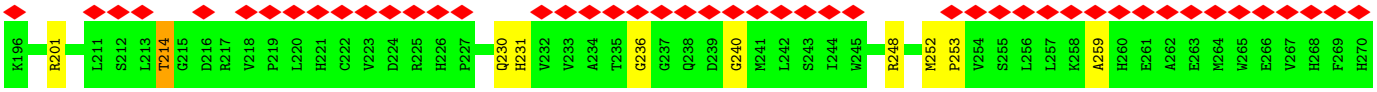
• Molecule 29: NUP43

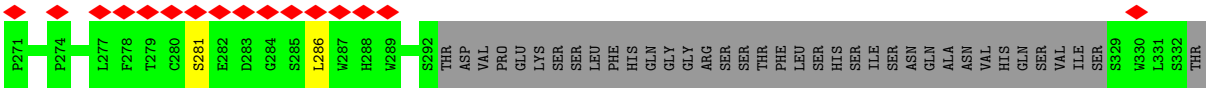
Chain a1:

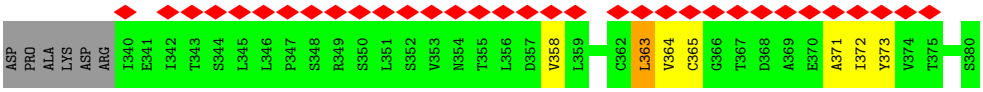






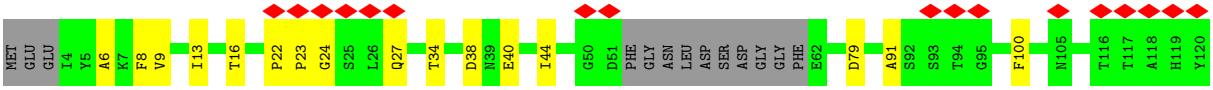


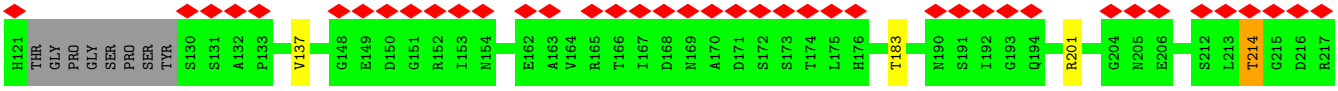


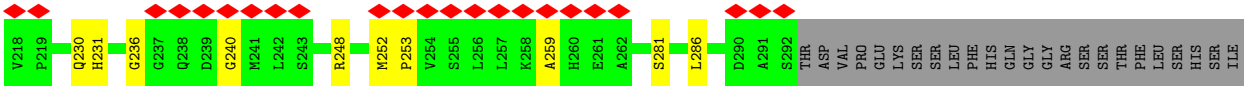


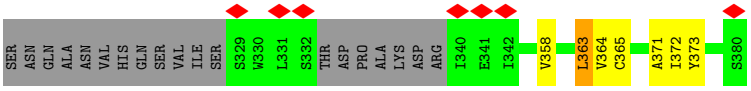
• Molecule 29: NUP43

Chain a2:



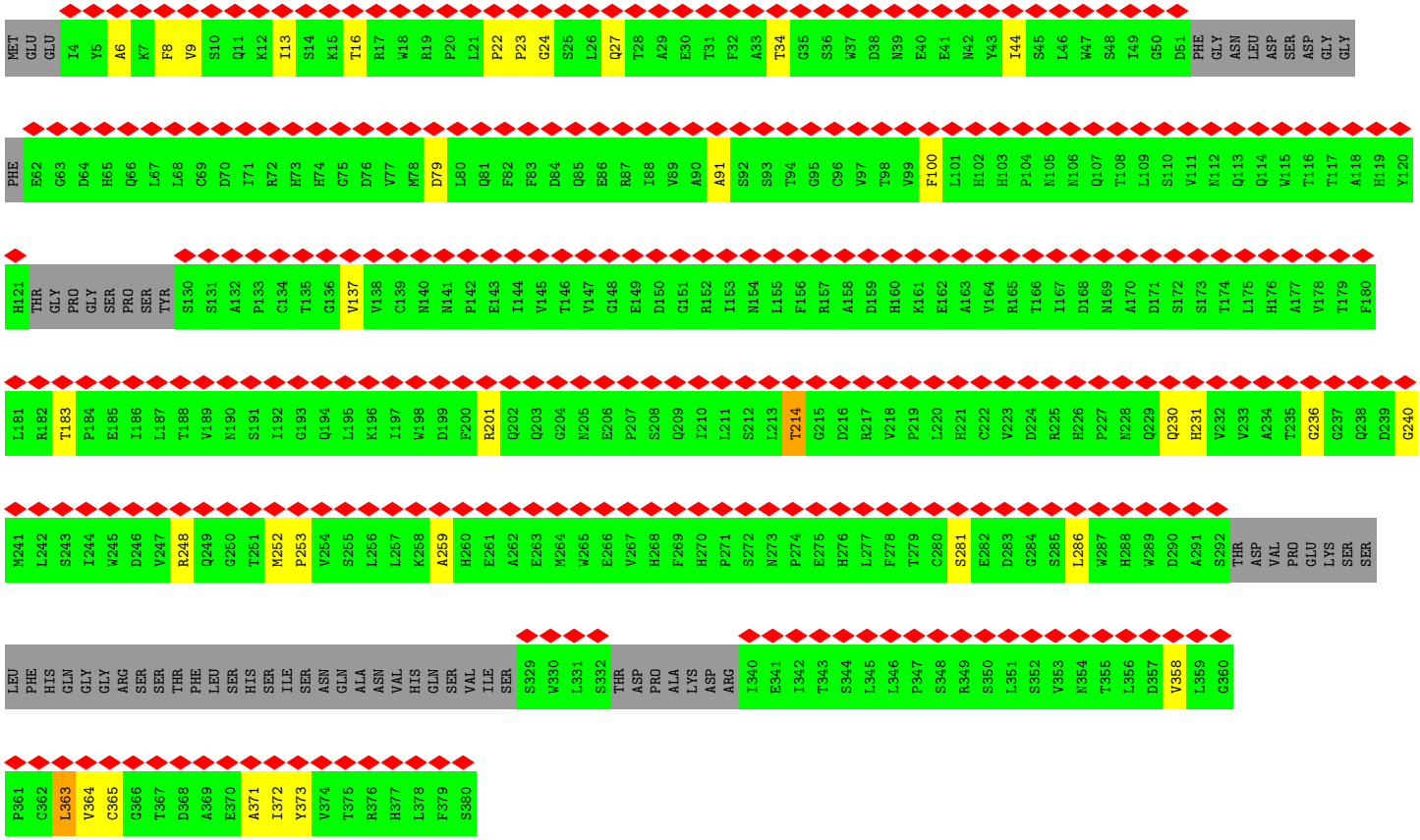






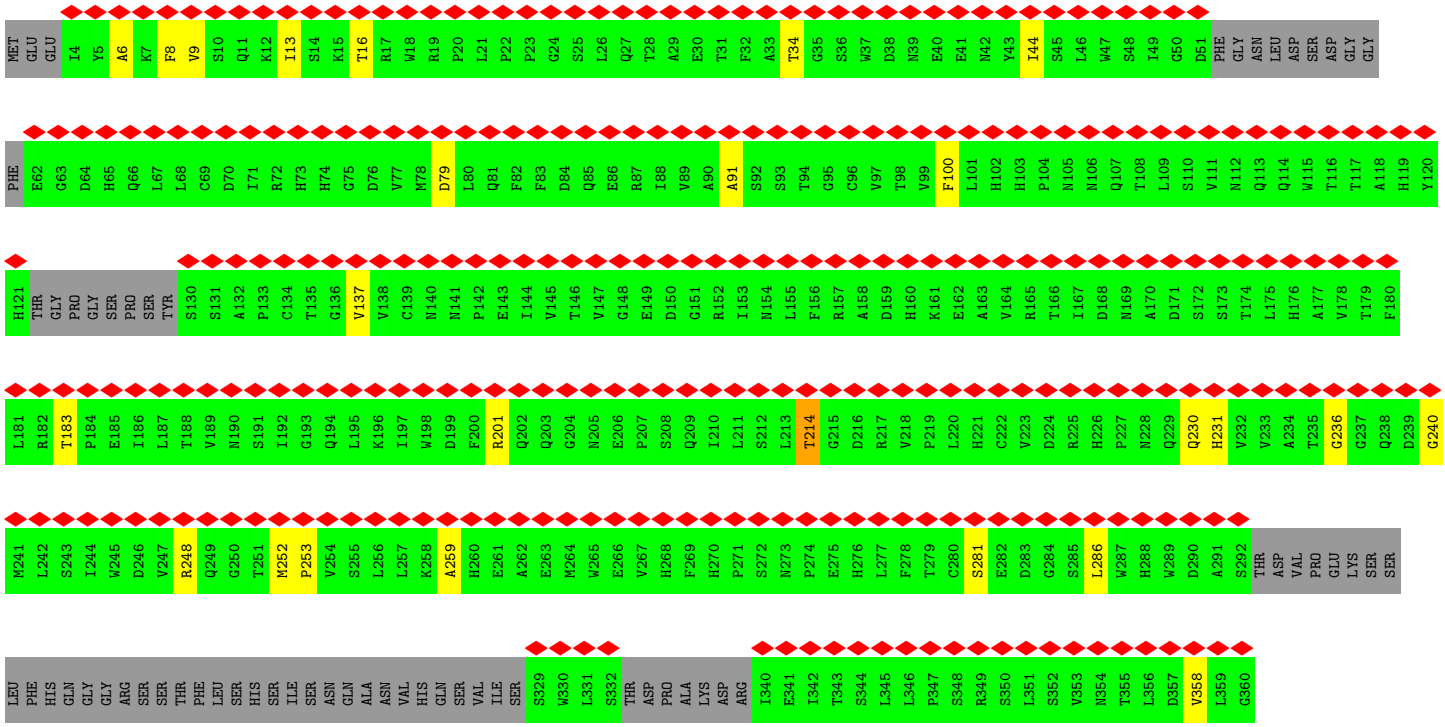
• Molecule 29: NUP43

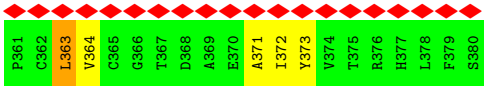
Chain a3:



- Molecule 29: NUP43

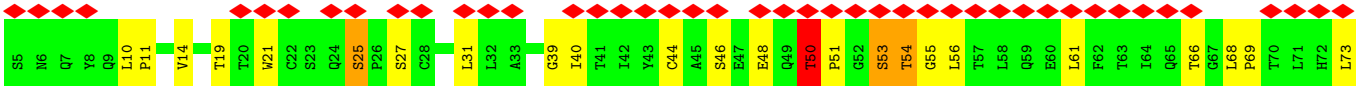
Chain a4:

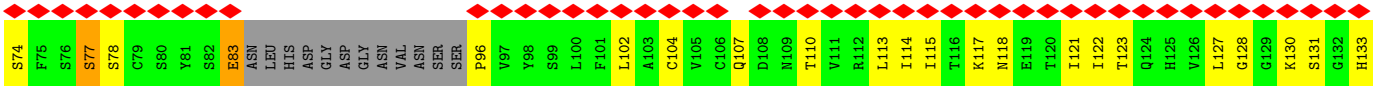


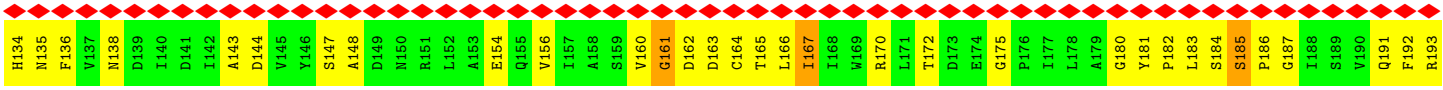


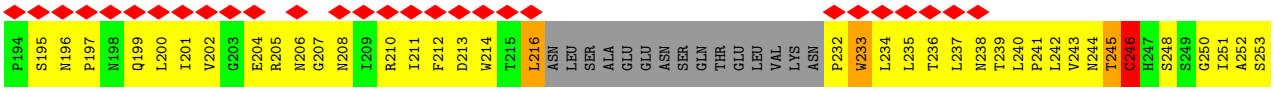
• Molecule 30: NUP37

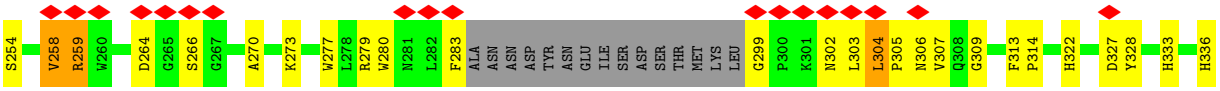
Chain b1:

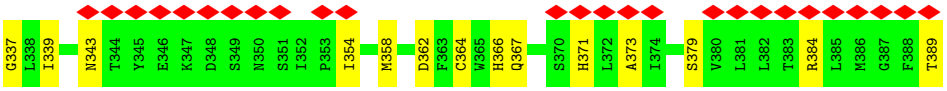






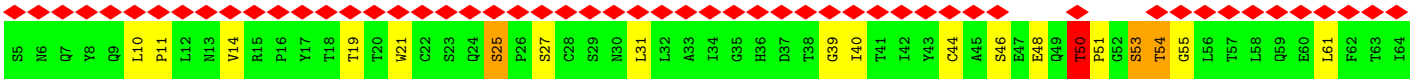


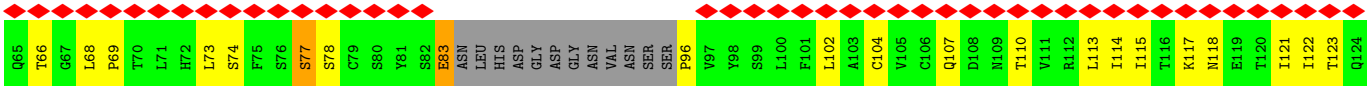


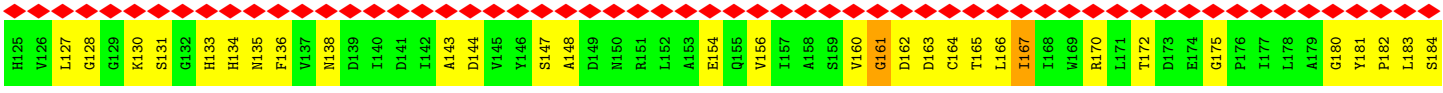


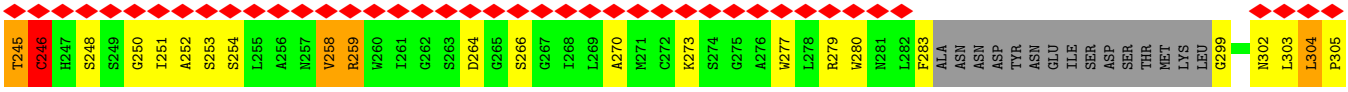
• Molecule 30: NUP37

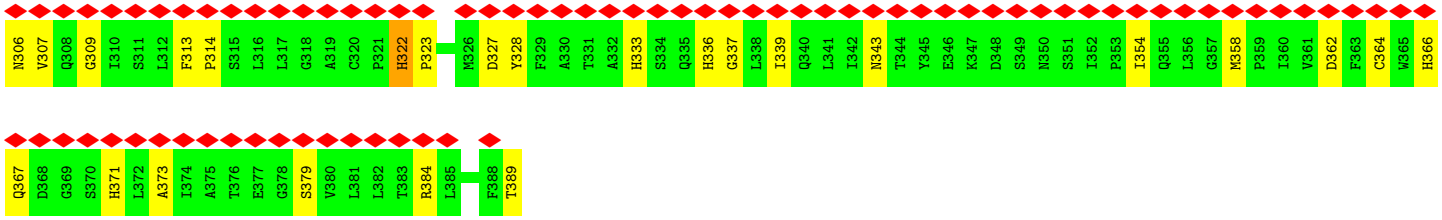
Chain b2:





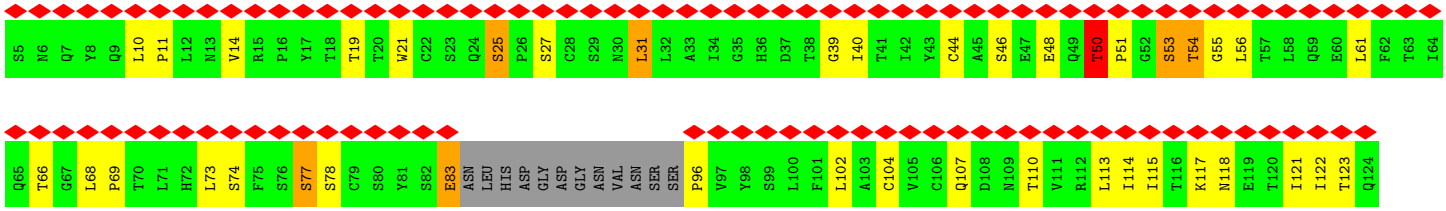






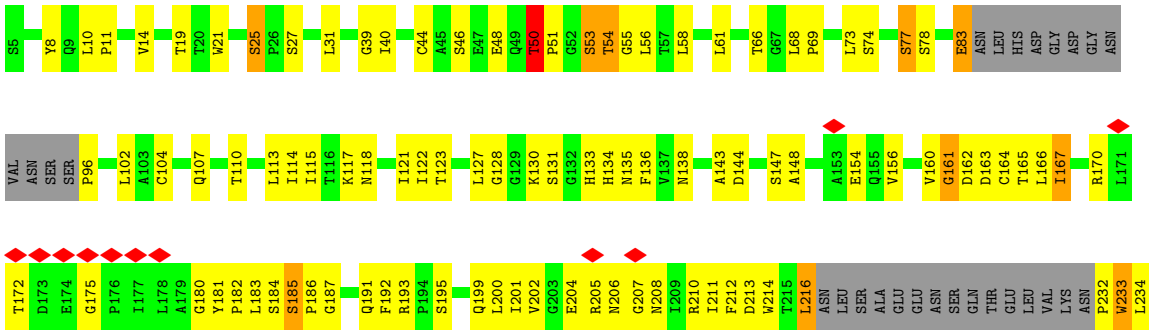
• Molecule 30: NUP37

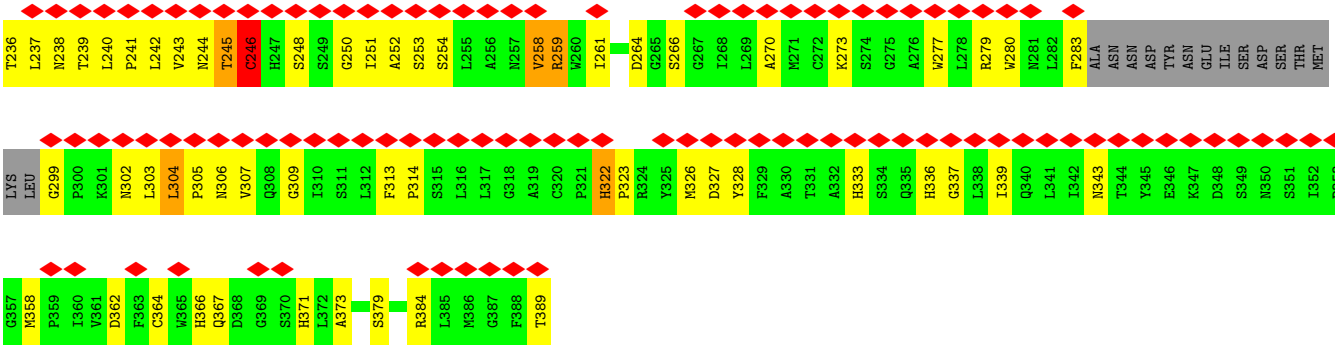
Chain b3:



• Molecule 30: NUP37

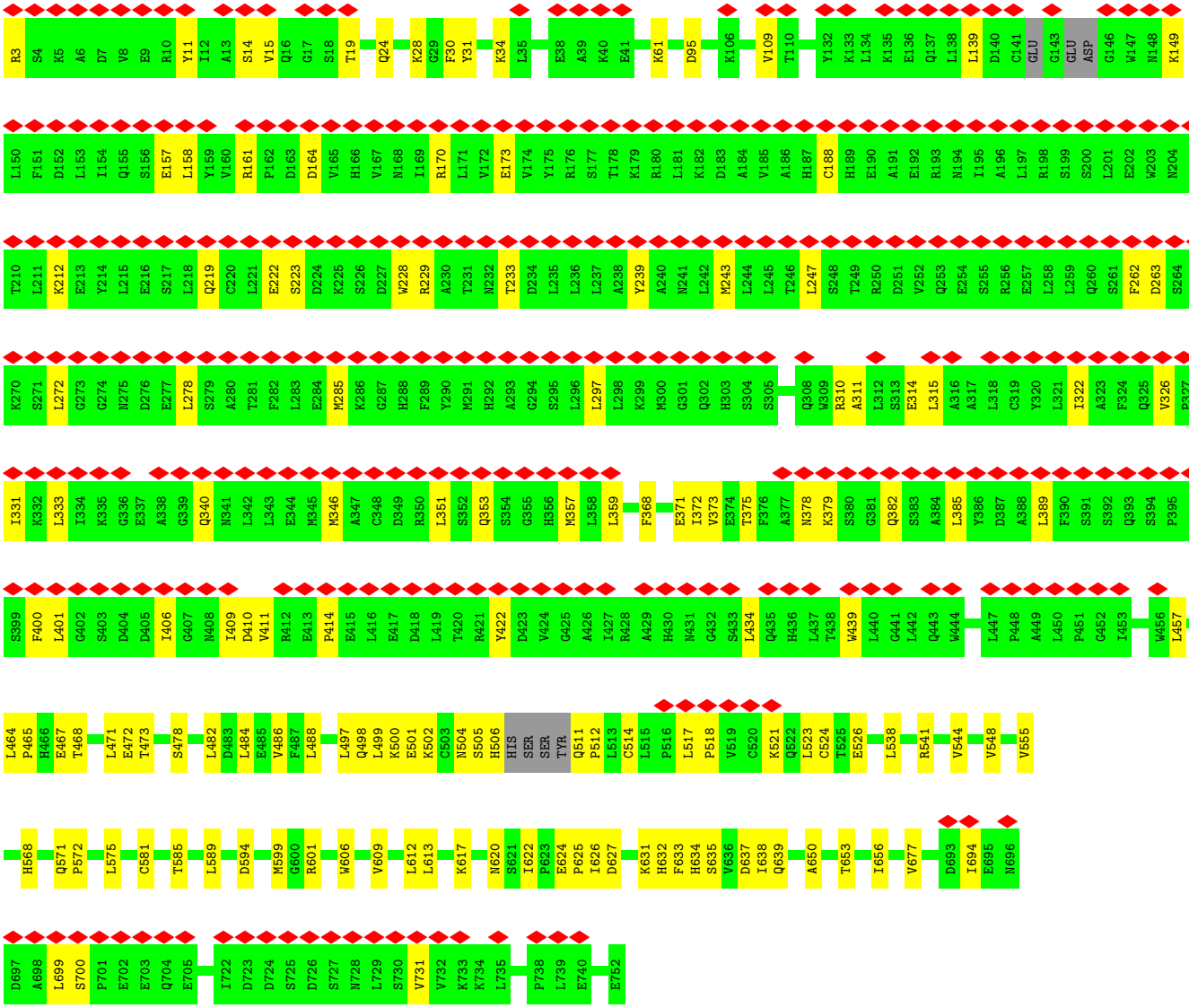
Chain b4:





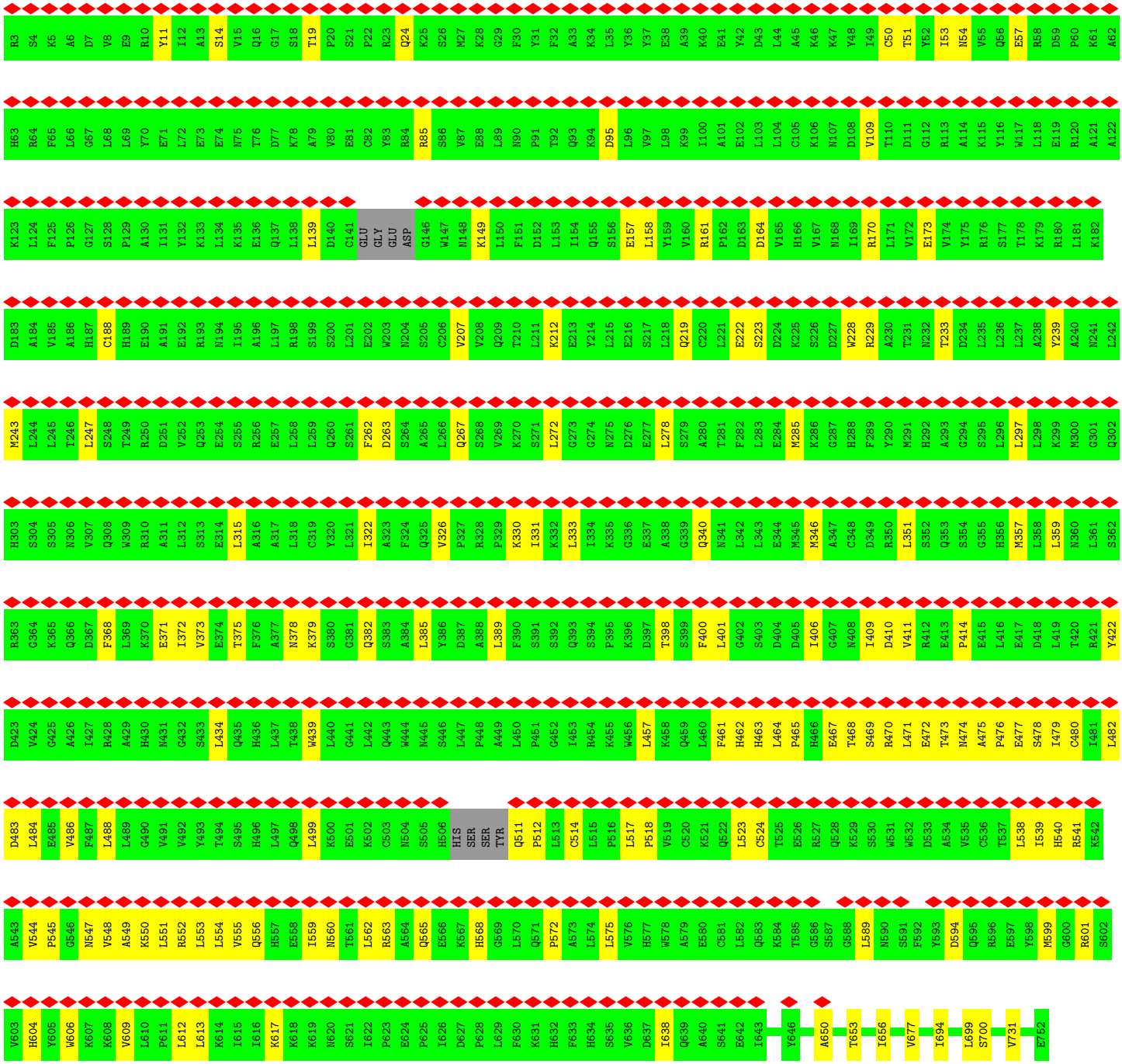
• Molecule 31: NUP358

Chain c1:



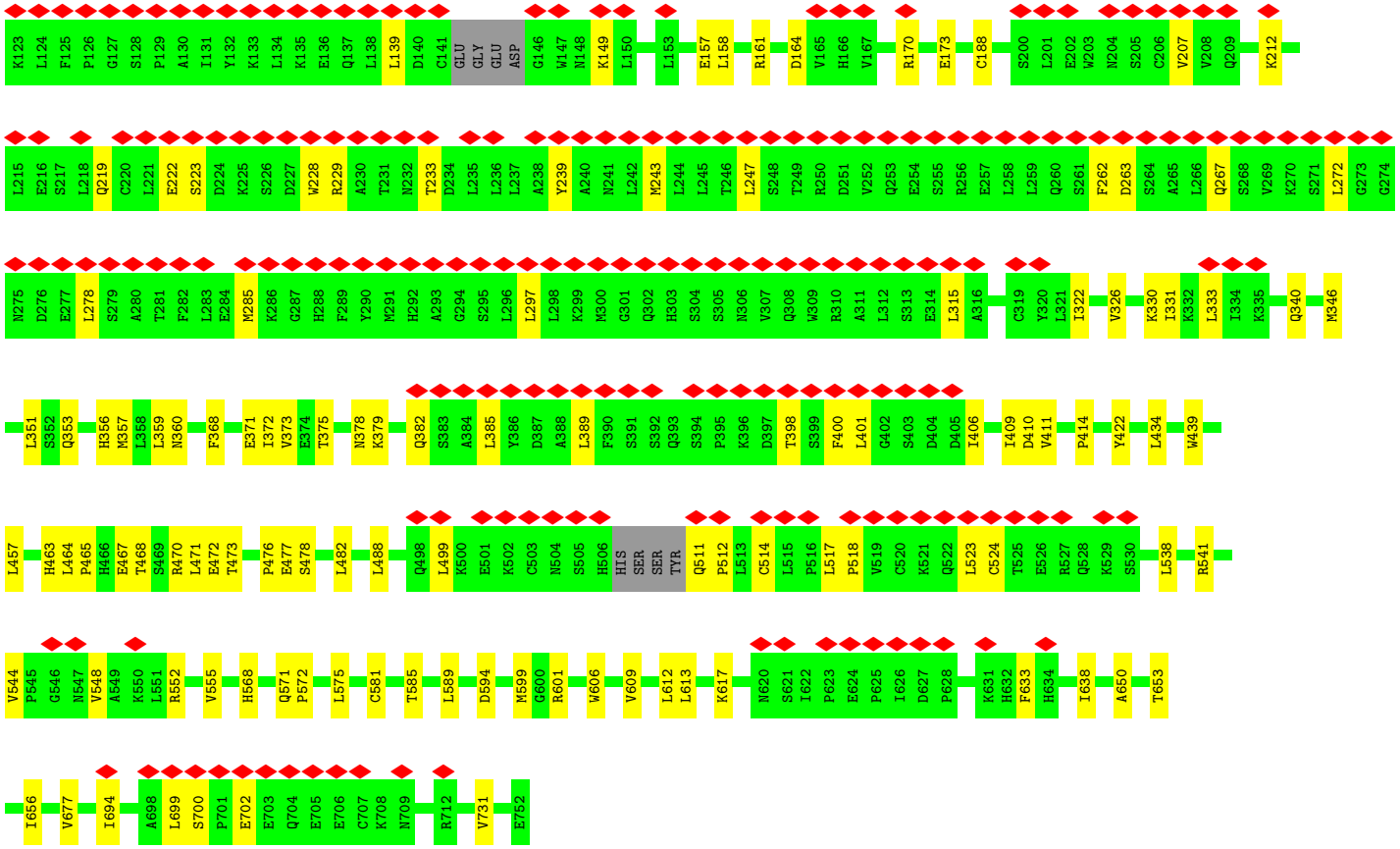
• Molecule 31: NUP358

Chain c2:



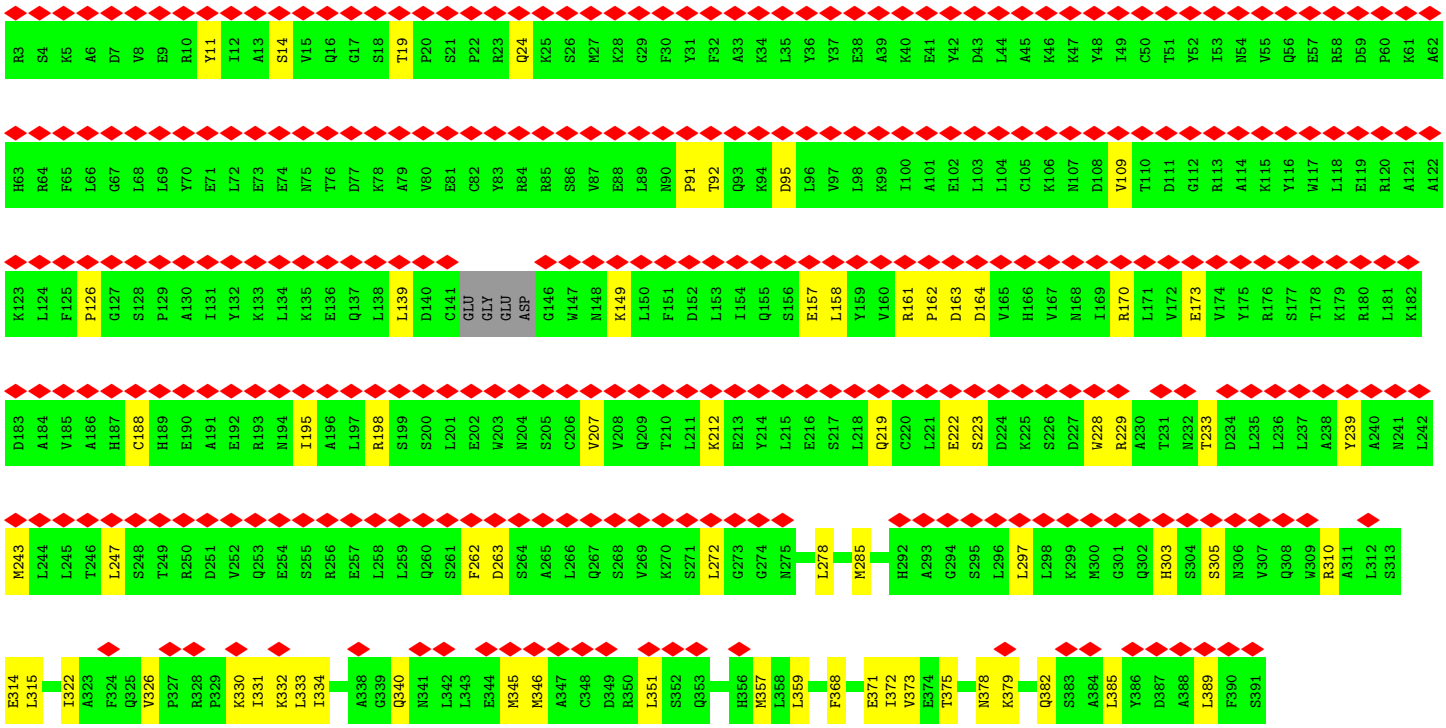
• Molecule 31: NUP358

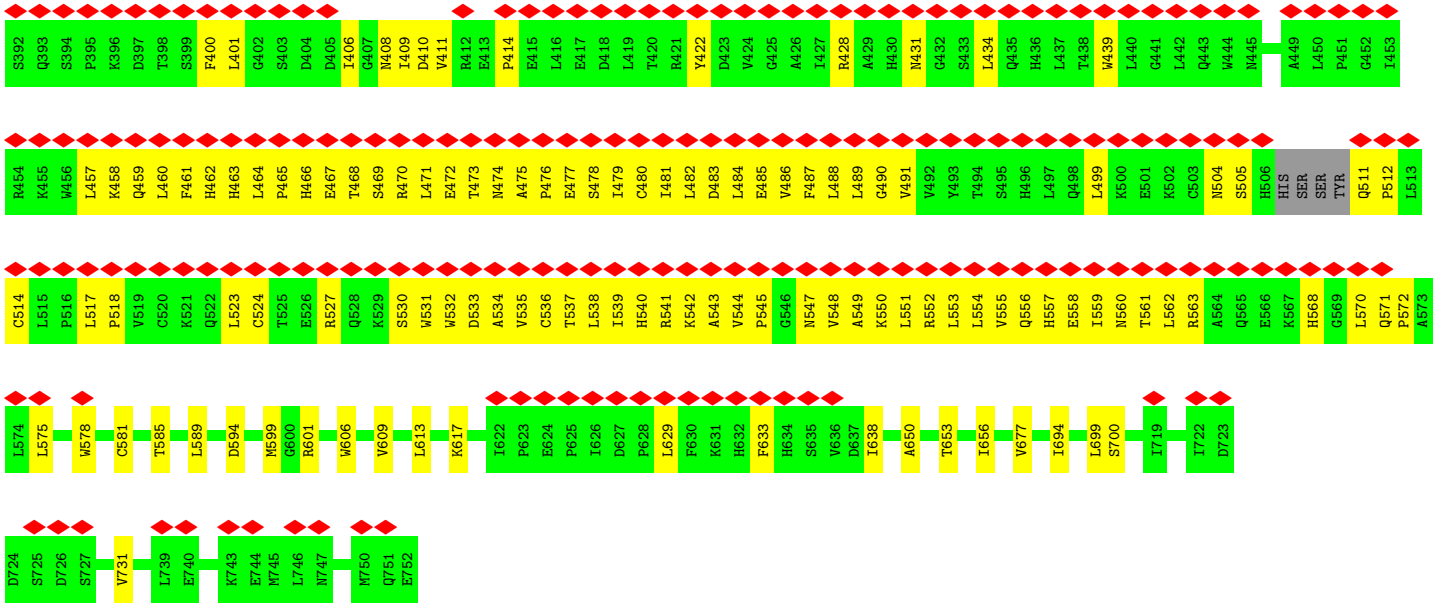
Chain c3:



- Molecule 31: NUP358

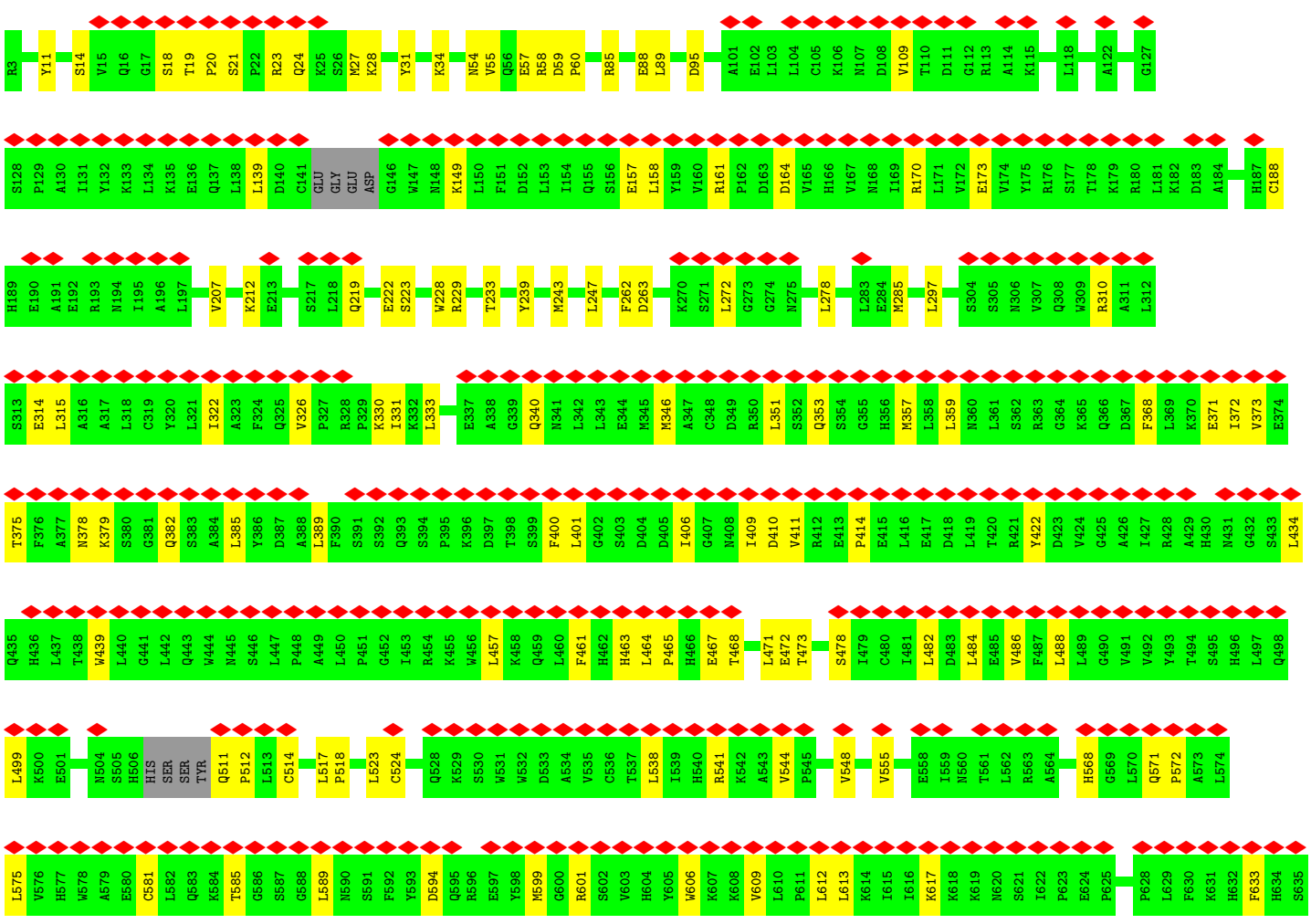
Chain c4:

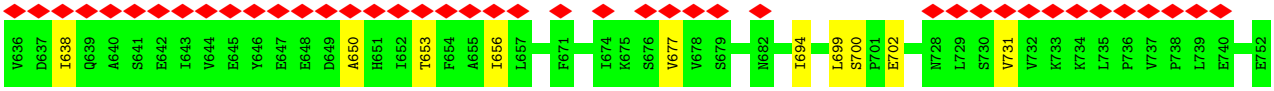




- Molecule 31: NUP358

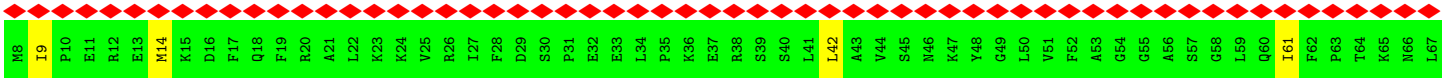
Chain c5:

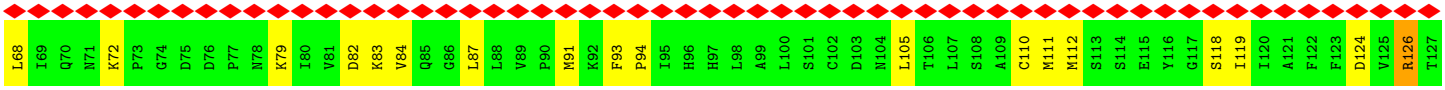


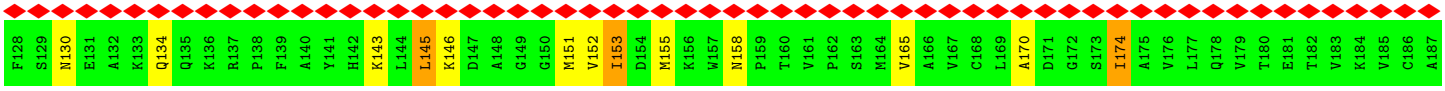


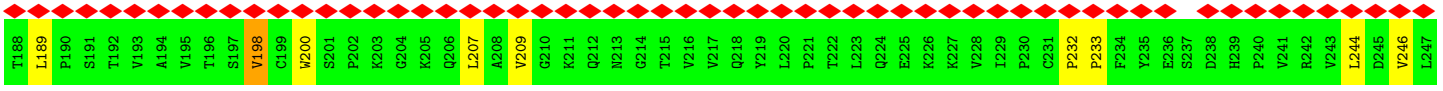
• Molecule 32: NUP214 NTD

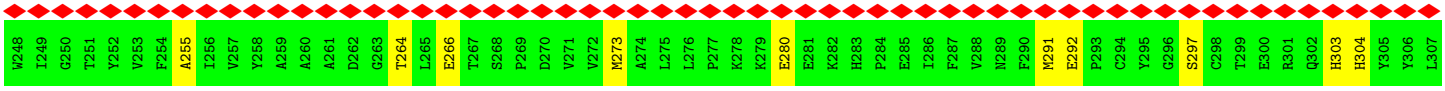
Chain g:

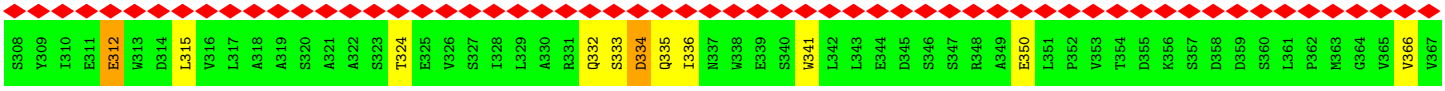


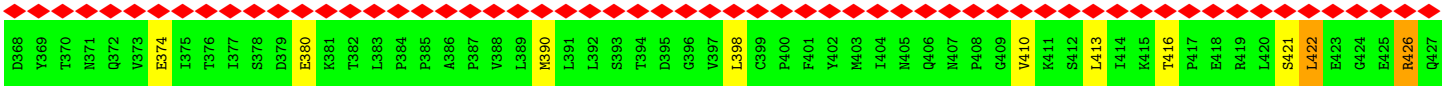






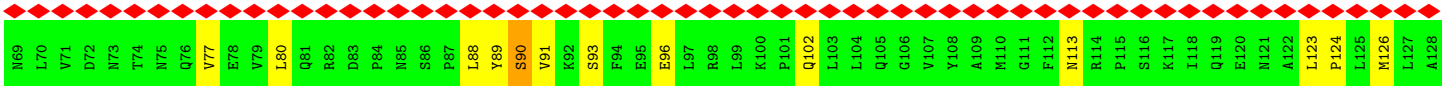


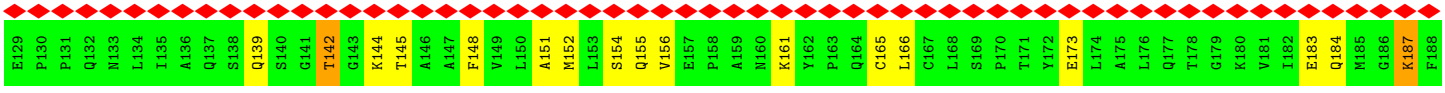


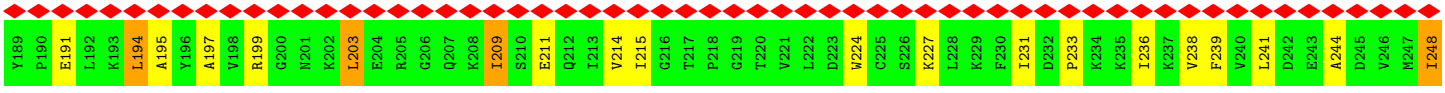


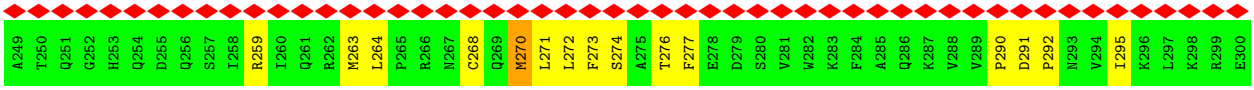
• Molecule 33: DDX19

Chain h:



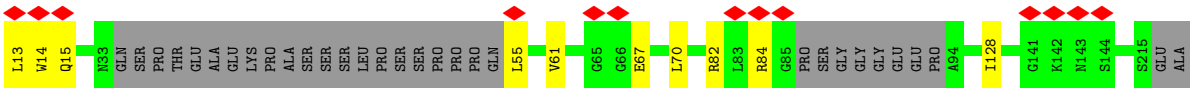


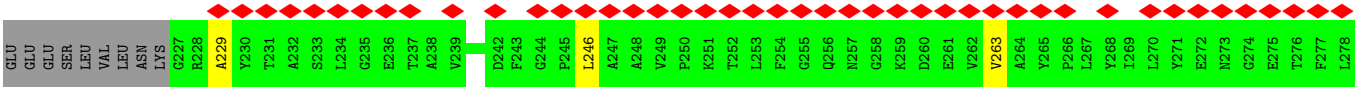


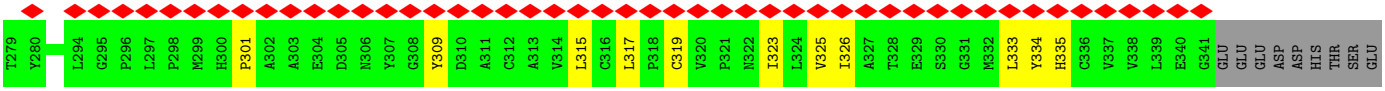


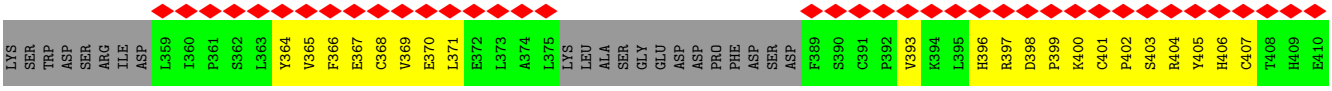
• Molecule 34: NUP88 NTD

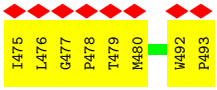
Chain i:





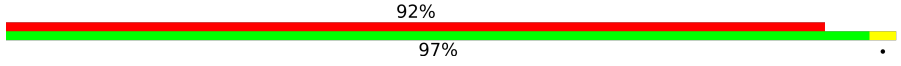


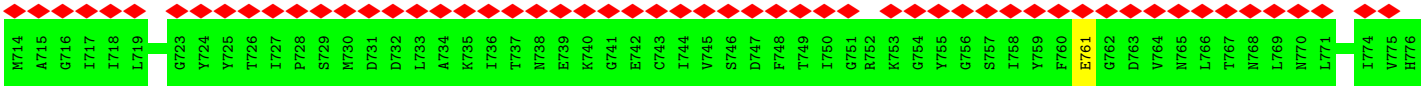


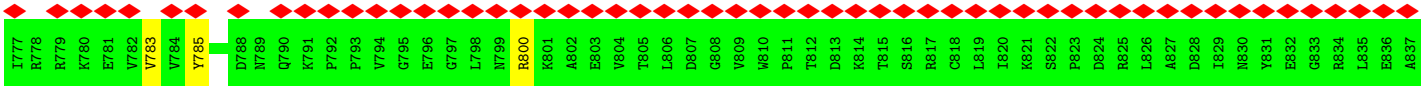


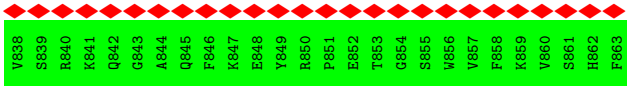
• Molecule 35: NUP98 APD

Chain j:



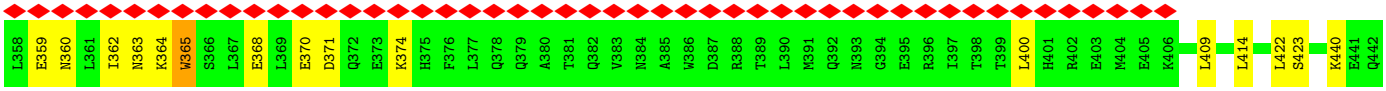






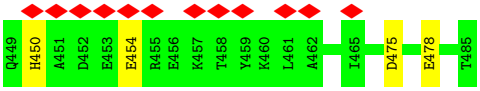
• Molecule 36: NUP62 CCS1

Chain k1:



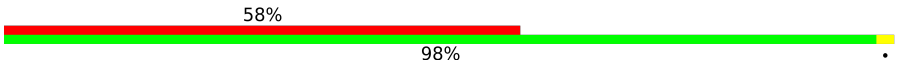
- Molecule 37: NUP62 CCS2

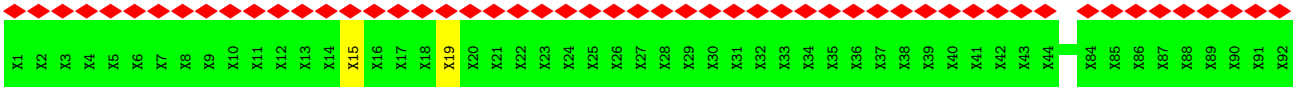
Chain k2:



- Molecule 38: NUP214 CCS1

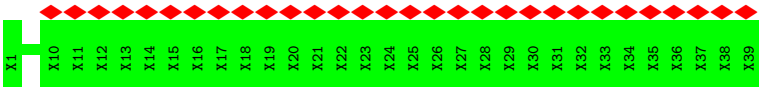
Chain l1:





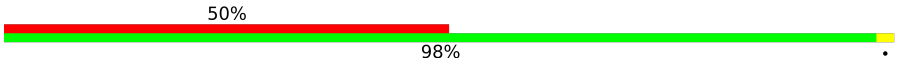
- Molecule 39: NUP214 CCS2

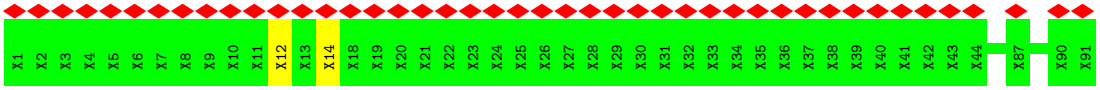
Chain l2:



- Molecule 40: NUP88 CCS1

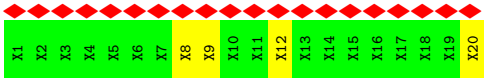
Chain m1:





- Molecule 41: NUP88 CCS2

Chain m2:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	792	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	140	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.524	Depositor
Minimum map value	-0.301	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.036	Depositor
Recommended contour level	0.07	Depositor
Map size (Å)	1987.2001, 1987.2001, 1987.2001	wwPDB
Map dimensions	144, 144, 144	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	13.8, 13.8, 13.8	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A1	0.21	2/9926 (0.0%)	0.36	0/13474
1	A3	0.21	2/9926 (0.0%)	0.36	0/13474
2	A2	0.34	0/10133	0.67	3/13731 (0.0%)
2	A4	0.34	0/10133	0.67	3/13731 (0.0%)
3	A5	0.19	2/10216 (0.0%)	0.33	0/13838
3	A6	0.19	2/10216 (0.0%)	0.33	0/13838
4	B1	0.18	0/112	0.52	0/149
4	B2	0.18	0/112	0.52	0/149
4	B3	0.18	0/112	0.51	0/149
4	B4	0.18	0/112	0.51	0/149
4	B5	0.19	0/112	0.51	0/149
4	B6	0.19	0/112	0.52	0/149
5	C1	0.28	0/140	0.40	0/188
5	C2	0.24	0/160	0.48	0/214
5	C3	0.28	0/140	0.40	0/188
5	C4	0.24	0/160	0.48	0/214
5	C5	0.28	0/140	0.40	0/188
5	C6	0.28	0/140	0.40	0/188
6	D1	0.17	0/5130	0.34	0/6930
6	D2	0.17	0/5130	0.35	0/6930
6	D3	0.17	0/5130	0.35	0/6930
6	D4	0.17	0/5130	0.35	0/6930
6	D5	0.17	0/5130	0.34	0/6930
6	D6	0.18	0/5130	0.35	0/6930
6	D7	0.17	0/5130	0.34	0/6930
7	E1	0.17	0/65	0.41	0/89
7	E2	0.19	0/65	0.41	0/89
7	E3	0.20	0/65	0.41	0/89
7	E4	0.18	0/65	0.41	0/89
7	E5	0.18	0/65	0.41	0/89
7	E6	0.18	0/65	0.40	0/89
7	E7	0.19	0/65	0.41	0/89
8	F1	0.10	0/13031	0.25	0/17717
8	F2	0.10	0/13031	0.25	0/17717

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	G1	0.12	0/445	0.33	0/600
9	G2	0.12	0/445	0.32	0/600
10	H1	0.12	0/95	0.23	0/128
10	H2	0.12	0/95	0.23	0/128
11	I1	0.09	0/12541	0.20	0/16980
11	I2	0.09	0/12541	0.20	0/16980
11	I3	0.09	0/12541	0.20	0/16980
11	I4	0.09	0/12541	0.20	0/16980
11	I5	0.09	0/12541	0.20	0/16980
12	J1	0.10	0/511	0.18	0/688
12	J2	0.09	0/511	0.18	0/688
12	J3	0.09	0/511	0.18	0/688
12	J4	0.10	0/511	0.18	0/688
12	J5	0.10	0/511	0.18	0/688
13	K1	0.08	0/75	0.23	0/101
13	K2	0.08	0/75	0.23	0/101
13	K3	0.09	0/75	0.23	0/101
13	K4	0.08	0/75	0.23	0/101
13	K5	0.08	0/75	0.23	0/101
14	L1	0.04	0/15	0.06	0/18
14	L2	0.04	0/15	0.07	0/18
14	L3	0.05	0/15	0.07	0/18
14	L4	0.04	0/15	0.07	0/18
14	L5	0.04	0/15	0.06	0/18
15	M1	0.31	0/1388	0.66	0/1866
15	M2	0.31	0/1388	0.66	0/1866
15	M3	0.31	0/1388	0.66	0/1866
15	M4	0.31	0/1388	0.66	0/1866
16	N1	0.31	0/1413	0.67	0/1898
16	N2	0.30	0/1413	0.67	0/1898
16	N3	0.31	0/1413	0.67	0/1898
16	N4	0.31	0/1413	0.67	0/1898
17	O1	0.34	0/2011	0.68	1/2715 (0.0%)
17	O2	0.34	0/2011	0.68	1/2715 (0.0%)
17	O3	0.34	0/2011	0.68	1/2715 (0.0%)
17	O4	0.34	0/2011	0.68	1/2715 (0.0%)
18	P1	0.49	0/910	0.62	0/1228
18	P2	0.49	0/910	0.62	0/1228
18	P3	0.49	0/910	0.62	0/1228
18	P4	0.49	0/910	0.62	0/1228
19	Q1	0.84	0/672	1.13	1/898 (0.1%)
19	Q2	0.82	0/629	1.16	2/842 (0.2%)
19	Q3	0.84	0/672	1.13	1/898 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
19	Q4	0.82	0/629	1.16	2/842 (0.2%)
20	R1	0.30	0/312	0.63	0/416
20	R2	0.30	0/312	0.63	0/416
20	R3	0.29	0/312	0.63	0/416
20	R4	0.30	0/312	0.63	0/416
21	S1	1.00	11/6081 (0.2%)	1.17	30/8304 (0.4%)
21	S2	1.00	10/6081 (0.2%)	1.17	30/8304 (0.4%)
21	S3	1.00	9/6081 (0.1%)	1.17	30/8304 (0.4%)
21	S4	1.00	11/6081 (0.2%)	1.17	30/8304 (0.4%)
22	T1	0.30	0/2037	0.71	0/2749
22	T2	0.31	0/2037	0.72	0/2749
22	T3	0.31	0/2037	0.71	0/2749
22	T4	0.31	0/2037	0.71	0/2749
23	U1	0.49	0/3463	0.99	5/4700 (0.1%)
23	U2	0.48	0/3472	0.99	5/4714 (0.1%)
23	U3	0.49	0/3472	0.99	5/4714 (0.1%)
23	U4	0.49	0/3472	0.99	5/4714 (0.1%)
24	V1	0.49	0/3860	1.01	15/5224 (0.3%)
24	V2	0.49	0/3860	1.01	15/5224 (0.3%)
24	V3	0.49	0/3860	1.01	15/5224 (0.3%)
24	V4	0.49	0/3860	1.01	15/5224 (0.3%)
25	W1	0.41	0/2220	0.90	4/3028 (0.1%)
25	W2	0.41	0/2220	0.90	4/3028 (0.1%)
25	W3	0.41	0/2220	0.90	4/3028 (0.1%)
25	W4	0.41	0/2220	0.89	4/3028 (0.1%)
26	X1	0.42	0/4602	1.00	17/6246 (0.3%)
26	X2	0.42	0/4602	1.00	16/6246 (0.3%)
26	X3	0.42	0/4602	1.00	15/6246 (0.2%)
26	X4	0.42	0/4602	1.00	15/6246 (0.2%)
27	Y1	0.35	0/2499	0.95	7/3388 (0.2%)
27	Y2	0.35	0/2499	0.95	7/3388 (0.2%)
27	Y3	0.35	0/2499	0.95	7/3388 (0.2%)
27	Y4	0.35	0/2499	0.95	7/3388 (0.2%)
28	Z1	0.41	0/6730	0.86	3/9158 (0.0%)
28	Z2	0.41	0/6730	0.86	3/9158 (0.0%)
28	Z3	0.41	0/6730	0.86	3/9158 (0.0%)
28	Z4	0.41	0/6730	0.86	3/9158 (0.0%)
29	a1	0.98	3/2723 (0.1%)	0.84	1/3715 (0.0%)
29	a2	0.98	3/2723 (0.1%)	0.84	1/3715 (0.0%)
29	a3	0.98	3/2723 (0.1%)	0.84	1/3715 (0.0%)
29	a4	0.98	3/2723 (0.1%)	0.84	1/3715 (0.0%)
30	b1	0.46	0/2702	1.01	13/3689 (0.4%)
30	b2	0.46	0/2702	1.01	13/3689 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
30	b3	0.46	0/2702	1.01	13/3689 (0.4%)
30	b4	0.46	0/2702	1.01	13/3689 (0.4%)
31	c1	0.13	0/6101	0.29	0/8248
31	c2	0.13	0/6098	0.29	0/8246
31	c3	0.13	0/6098	0.29	0/8246
31	c4	0.13	0/6098	0.29	0/8246
31	c5	0.13	0/6098	0.29	0/8246
32	g	0.85	0/3359	0.91	1/4572 (0.0%)
33	h	0.86	0/1871	0.99	2/2530 (0.1%)
34	i	0.13	0/3398	0.29	0/4629
35	j	0.11	0/1223	0.25	0/1653
36	k1	0.48	0/727	0.78	0/977
37	k2	0.42	0/310	0.70	0/414
All	All	0.42	61/407133 (0.0%)	0.67	394/551943 (0.1%)

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	A1	0	2
1	A3	0	2
2	A2	0	1
2	A4	0	1
23	U1	0	1
23	U2	0	1
23	U3	0	1
23	U4	0	1
24	V1	0	2
24	V2	0	2
24	V3	0	2
24	V4	0	2
28	Z1	0	2
28	Z2	0	2
28	Z3	0	2
28	Z4	0	2
30	b1	0	3
30	b2	0	3
30	b3	0	3
30	b4	0	3
All	All	0	38

All (61) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	891	GLY	C-N	9.04	1.50	1.34
1	A3	891	GLY	C-N	8.99	1.50	1.34
3	A6	891	GLY	C-N	8.45	1.47	1.33
3	A5	891	GLY	C-N	8.42	1.47	1.33
21	S3	214	ALA	C-O	-7.43	1.15	1.24
21	S4	214	ALA	C-O	-7.39	1.15	1.24
21	S1	214	ALA	C-O	-7.28	1.15	1.24
21	S2	214	ALA	C-O	-7.12	1.15	1.24
1	A1	808	GLN	C-N	-6.84	1.24	1.33
21	S3	124	ILE	CA-C	-6.75	1.44	1.52
1	A3	808	GLN	C-N	-6.73	1.24	1.33
21	S3	123	LEU	N-CA	-6.73	1.38	1.46
21	S4	123	LEU	N-CA	-6.71	1.38	1.46
3	A5	808	GLN	C-N	-6.69	1.25	1.33
3	A6	808	GLN	C-N	-6.68	1.25	1.33
21	S4	124	ILE	CA-C	-6.67	1.44	1.52
21	S3	129	ALA	CA-CB	6.66	1.61	1.52
21	S1	124	ILE	CA-C	-6.65	1.44	1.52
21	S1	129	ALA	CA-CB	6.63	1.61	1.52
21	S2	124	ILE	CA-C	-6.63	1.44	1.52
21	S2	129	ALA	CA-CB	6.60	1.61	1.52
21	S1	123	LEU	N-CA	-6.56	1.38	1.46
21	S4	129	ALA	CA-CB	6.53	1.61	1.52
21	S2	123	LEU	N-CA	-6.51	1.38	1.46
29	a2	183	THR	N-CA	5.95	1.52	1.45
29	a3	183	THR	N-CA	5.86	1.52	1.45
29	a1	183	THR	N-CA	5.86	1.52	1.45
29	a4	183	THR	N-CA	5.80	1.52	1.45
21	S1	107	ILE	N-CA	-5.78	1.39	1.46
21	S2	107	ILE	N-CA	-5.73	1.39	1.46
21	S3	107	ILE	N-CA	-5.73	1.39	1.46
21	S4	107	ILE	N-CA	-5.71	1.39	1.46
21	S4	389	GLU	CA-C	5.54	1.59	1.52
21	S1	389	GLU	CA-C	5.53	1.59	1.52
21	S3	389	GLU	CA-C	5.50	1.59	1.52
29	a3	201	ARG	C-O	-5.50	1.16	1.24
21	S2	389	GLU	CA-C	5.47	1.59	1.52
29	a4	201	ARG	C-O	-5.43	1.16	1.24
29	a2	201	ARG	C-O	-5.40	1.16	1.24
29	a1	201	ARG	C-O	-5.38	1.17	1.24
21	S2	90	VAL	CA-CB	5.21	1.60	1.54
21	S4	90	VAL	CA-CB	5.18	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	S3	300	ASP	N-CA	-5.15	1.40	1.46
21	S4	313	ASN	N-CA	-5.15	1.40	1.46
21	S1	90	VAL	CA-CB	5.14	1.60	1.54
21	S4	300	ASP	N-CA	-5.12	1.40	1.46
21	S3	90	VAL	CA-CB	5.11	1.60	1.54
21	S2	313	ASN	N-CA	-5.07	1.40	1.46
29	a1	236	GLY	CA-C	-5.07	1.48	1.52
29	a3	236	GLY	CA-C	-5.06	1.48	1.52
21	S4	314	ARG	C-O	-5.06	1.18	1.24
21	S1	307	ALA	N-CA	-5.05	1.39	1.46
21	S1	314	ARG	C-O	-5.05	1.18	1.24
21	S2	307	ALA	N-CA	-5.05	1.39	1.46
29	a4	236	GLY	CA-C	-5.04	1.48	1.52
29	a2	236	GLY	CA-C	-5.04	1.48	1.52
21	S1	300	ASP	N-CA	-5.04	1.40	1.46
21	S4	307	ALA	N-CA	-5.03	1.39	1.46
21	S1	313	ASN	N-CA	-5.02	1.40	1.46
21	S2	300	ASP	N-CA	-5.02	1.40	1.46
21	S3	153	ALA	C-O	-5.01	1.17	1.24

All (394) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	S4	131	SER	CA-C-N	10.39	130.67	119.87
21	S4	131	SER	C-N-CA	10.39	130.67	119.87
21	S2	131	SER	CA-C-N	10.34	130.62	119.87
21	S2	131	SER	C-N-CA	10.34	130.62	119.87
21	S1	131	SER	CA-C-N	10.31	130.59	119.87
21	S1	131	SER	C-N-CA	10.31	130.59	119.87
21	S3	131	SER	CA-C-N	10.31	130.59	119.87
21	S3	131	SER	C-N-CA	10.31	130.59	119.87
26	X2	454	LEU	N-CA-C	10.13	124.31	111.24
26	X1	454	LEU	N-CA-C	10.13	124.31	111.24
28	Z3	738	ARG	N-CA-C	-10.10	100.50	113.12
26	X3	454	LEU	N-CA-C	10.09	124.25	111.24
26	X4	454	LEU	N-CA-C	10.06	124.22	111.24
28	Z4	738	ARG	N-CA-C	-10.05	100.55	113.12
28	Z1	738	ARG	N-CA-C	-10.05	100.56	113.12
28	Z2	738	ARG	N-CA-C	-10.04	100.57	113.12
28	Z4	739	PHE	N-CA-C	-10.02	100.43	111.36
28	Z1	739	PHE	N-CA-C	-9.96	100.50	111.36
28	Z3	739	PHE	N-CA-C	-9.93	100.53	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	Z2	739	PHE	N-CA-C	-9.93	100.54	111.36
21	S1	685	PRO	N-CA-CB	9.87	113.61	103.25
21	S2	685	PRO	N-CA-CB	9.87	113.61	103.25
21	S4	685	PRO	N-CA-CB	9.86	113.60	103.25
21	S3	685	PRO	N-CA-CB	9.81	113.55	103.25
21	S2	446	ALA	N-CA-C	9.24	124.45	109.76
21	S4	446	ALA	N-CA-C	9.24	124.44	109.76
21	S1	446	ALA	N-CA-C	9.21	124.41	109.76
21	S3	446	ALA	N-CA-C	9.21	124.41	109.76
21	S1	293	ASN	N-CA-C	8.80	121.26	108.86
21	S3	293	ASN	N-CA-C	8.79	121.25	108.86
21	S2	293	ASN	N-CA-C	8.78	121.24	108.86
21	S4	293	ASN	N-CA-C	8.74	121.18	108.86
23	U3	24	ILE	N-CA-C	8.52	125.86	113.16
23	U1	24	ILE	N-CA-C	8.50	125.82	113.16
23	U4	24	ILE	N-CA-C	8.49	125.81	113.16
23	U2	24	ILE	N-CA-C	8.48	125.79	113.16
21	S2	680	PRO	N-CA-CB	8.10	111.76	103.25
25	W2	154	ALA	CA-C-N	-8.10	112.37	120.31
25	W2	154	ALA	C-N-CA	-8.10	112.37	120.31
25	W3	154	ALA	CA-C-N	-8.09	112.38	120.31
25	W3	154	ALA	C-N-CA	-8.09	112.38	120.31
21	S4	680	PRO	N-CA-CB	8.06	111.71	103.25
21	S3	680	PRO	N-CA-CB	8.03	111.68	103.25
25	W1	154	ALA	CA-C-N	-8.02	112.45	120.31
25	W1	154	ALA	C-N-CA	-8.02	112.45	120.31
21	S1	680	PRO	N-CA-CB	8.00	111.65	103.25
25	W4	154	ALA	CA-C-N	-7.97	112.50	120.31
25	W4	154	ALA	C-N-CA	-7.97	112.50	120.31
33	h	248	ILE	CB-CA-C	-7.89	101.48	112.14
21	S3	573	PRO	N-CA-CB	7.80	111.44	103.25
21	S2	573	PRO	N-CA-CB	7.79	111.42	103.25
21	S4	573	PRO	N-CA-CB	7.77	111.40	103.25
21	S1	386	VAL	CB-CA-C	-7.75	99.77	110.77
21	S4	386	VAL	CB-CA-C	-7.74	99.77	110.77
30	b3	246	CYS	N-CA-C	-7.73	102.85	111.28
30	b1	246	CYS	N-CA-C	-7.72	102.87	111.28
21	S1	573	PRO	N-CA-CB	7.71	111.34	103.25
21	S2	386	VAL	CB-CA-C	-7.69	99.85	110.77
21	S3	386	VAL	CB-CA-C	-7.69	99.86	110.77
30	b2	246	CYS	N-CA-C	-7.69	102.90	111.28
30	b4	246	CYS	N-CA-C	-7.68	102.90	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	X2	288	SER	N-CA-C	-7.50	102.25	111.40
26	X4	288	SER	N-CA-C	-7.48	102.27	111.40
26	X1	288	SER	N-CA-C	-7.47	102.29	111.40
26	X3	288	SER	N-CA-C	-7.45	102.31	111.40
21	S1	791	PRO	N-CA-CB	7.21	110.82	103.25
21	S3	791	PRO	N-CA-CB	7.16	110.76	103.25
21	S2	791	PRO	N-CA-CB	7.11	110.72	103.25
21	S4	791	PRO	N-CA-CB	7.08	110.68	103.25
21	S1	849	PRO	N-CA-CB	6.98	110.76	103.15
27	Y4	146	ARG	N-CA-C	-6.98	105.95	114.75
21	S3	849	PRO	N-CA-CB	6.97	110.74	103.15
27	Y2	146	ARG	N-CA-C	-6.95	105.99	114.75
21	S4	849	PRO	N-CA-CB	6.94	110.71	103.15
21	S2	414	ASN	CA-C-N	-6.93	112.42	122.06
21	S2	414	ASN	C-N-CA	-6.93	112.42	122.06
21	S3	414	ASN	CA-C-N	-6.92	112.44	122.06
21	S3	414	ASN	C-N-CA	-6.92	112.44	122.06
27	Y3	146	ARG	N-CA-C	-6.92	106.03	114.75
21	S1	414	ASN	CA-C-N	-6.92	112.44	122.06
21	S1	414	ASN	C-N-CA	-6.92	112.44	122.06
27	Y2	314	LEU	N-CA-C	-6.90	104.67	113.23
27	Y1	146	ARG	N-CA-C	-6.90	106.06	114.75
21	S2	849	PRO	N-CA-CB	6.89	110.66	103.15
27	Y4	314	LEU	N-CA-C	-6.89	104.69	113.23
21	S4	414	ASN	CA-C-N	-6.87	112.52	122.06
21	S4	414	ASN	C-N-CA	-6.87	112.52	122.06
27	Y3	314	LEU	N-CA-C	-6.86	104.72	113.23
27	Y1	314	LEU	N-CA-C	-6.83	104.76	113.23
26	X2	167	GLY	N-CA-C	-6.79	97.08	113.18
26	X3	167	GLY	N-CA-C	-6.79	97.09	113.18
26	X1	167	GLY	N-CA-C	-6.77	97.13	113.18
26	X4	167	GLY	N-CA-C	-6.76	97.15	113.18
26	X3	400	GLY	N-CA-C	6.72	124.15	114.67
23	U1	382	LYS	CA-C-N	6.70	128.21	119.84
23	U1	382	LYS	C-N-CA	6.70	128.21	119.84
23	U4	382	LYS	CA-C-N	6.68	128.19	119.84
23	U4	382	LYS	C-N-CA	6.68	128.19	119.84
26	X2	608	PRO	N-CA-CB	6.68	110.67	103.33
26	X4	400	GLY	N-CA-C	6.68	124.08	114.67
21	S1	414	ASN	N-CA-C	-6.67	100.65	110.52
23	U3	382	LYS	CA-C-N	6.67	128.18	119.84
23	U3	382	LYS	C-N-CA	6.67	128.18	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	S3	414	ASN	N-CA-C	-6.67	100.65	110.52
26	X2	400	GLY	N-CA-C	6.66	124.06	114.67
26	X1	400	GLY	N-CA-C	6.66	124.06	114.67
21	S1	628	PRO	N-CA-CB	6.65	110.23	103.25
21	S2	414	ASN	N-CA-C	-6.65	100.68	110.52
21	S2	628	PRO	N-CA-CB	6.65	110.23	103.25
26	X1	608	PRO	N-CA-CB	6.65	110.64	103.33
23	U2	382	LYS	CA-C-N	6.64	128.14	119.84
23	U2	382	LYS	C-N-CA	6.64	128.14	119.84
21	S3	628	PRO	N-CA-CB	6.63	110.21	103.25
26	X3	608	PRO	N-CA-CB	6.63	110.62	103.33
21	S4	414	ASN	N-CA-C	-6.63	100.71	110.52
21	S4	628	PRO	N-CA-CB	6.62	110.21	103.25
28	Z4	818	PRO	N-CA-CB	6.59	110.25	103.00
28	Z3	818	PRO	N-CA-CB	6.58	110.24	103.00
26	X4	608	PRO	N-CA-CB	6.57	110.56	103.33
26	X1	453	ASP	N-CA-C	6.50	118.09	108.60
28	Z2	818	PRO	N-CA-CB	6.50	110.15	103.00
28	Z1	818	PRO	N-CA-CB	6.50	110.14	103.00
26	X2	453	ASP	N-CA-C	6.49	118.07	108.60
26	X4	453	ASP	N-CA-C	6.46	118.04	108.60
24	V4	307	ALA	N-CA-C	-6.40	104.23	111.14
2	A2	1305	ALA	CA-C-N	-6.38	113.64	120.47
2	A2	1305	ALA	C-N-CA	-6.38	113.64	120.47
2	A4	1305	ALA	CA-C-N	-6.35	113.67	120.47
2	A4	1305	ALA	C-N-CA	-6.35	113.67	120.47
24	V1	307	ALA	N-CA-C	-6.34	104.30	111.14
27	Y3	291	ASN	N-CA-C	-6.33	103.59	113.02
27	Y1	291	ASN	N-CA-C	-6.32	103.61	113.02
24	V3	307	ALA	N-CA-C	-6.31	104.33	111.14
24	V2	307	ALA	N-CA-C	-6.30	104.33	111.14
27	Y2	291	ASN	N-CA-C	-6.29	103.65	113.02
24	V3	516	ILE	N-CA-C	6.29	117.79	110.62
27	Y4	291	ASN	N-CA-C	-6.28	103.66	113.02
26	X4	461	MET	N-CA-C	-6.26	105.46	113.23
26	X1	461	MET	N-CA-C	-6.25	105.48	113.23
24	V2	319	LEU	N-CA-C	-6.25	104.16	110.97
24	V2	516	ILE	N-CA-C	6.24	117.74	110.62
26	X2	461	MET	N-CA-C	-6.24	105.49	113.23
26	X3	461	MET	N-CA-C	-6.23	105.51	113.23
21	S3	315	ALA	N-CA-C	6.21	117.71	111.07
24	V1	516	ILE	N-CA-C	6.21	117.69	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	V4	516	ILE	N-CA-C	6.20	117.69	110.62
21	S1	315	ALA	N-CA-C	6.19	117.70	111.07
21	S4	315	ALA	N-CA-C	6.17	117.68	111.07
21	S2	315	ALA	N-CA-C	6.14	117.64	111.07
24	V1	399	SER	N-CA-C	-6.13	102.27	110.55
24	V4	399	SER	N-CA-C	-6.12	102.29	110.55
24	V2	399	SER	N-CA-C	-6.09	102.33	110.55
24	V3	399	SER	N-CA-C	-6.08	102.34	110.55
32	g	336	ILE	CB-CA-C	-6.07	105.67	111.44
26	X3	166	ASP	N-CA-C	6.06	118.34	108.76
24	V4	369	GLY	N-CA-C	6.05	120.14	111.12
26	X4	166	ASP	N-CA-C	6.05	118.32	108.76
24	V1	369	GLY	N-CA-C	6.05	120.13	111.12
26	X1	166	ASP	N-CA-C	6.03	118.29	108.76
30	b2	50	THR	CA-C-N	-6.03	112.31	119.84
30	b2	50	THR	C-N-CA	-6.03	112.31	119.84
26	X3	453	ASP	N-CA-C	6.02	118.00	108.79
26	X2	166	ASP	N-CA-C	6.02	118.27	108.76
24	V2	369	GLY	N-CA-C	6.01	120.08	111.12
30	b4	50	THR	CA-C-N	-6.01	112.33	119.84
30	b4	50	THR	C-N-CA	-6.01	112.33	119.84
30	b1	50	THR	CA-C-N	-5.98	112.36	119.84
30	b1	50	THR	C-N-CA	-5.98	112.36	119.84
21	S3	120	LYS	CB-CA-C	-5.98	109.67	116.54
24	V3	369	GLY	N-CA-C	5.97	120.02	111.12
30	b3	50	THR	CA-C-N	-5.97	112.37	119.84
30	b3	50	THR	C-N-CA	-5.97	112.37	119.84
21	S2	120	LYS	CB-CA-C	-5.95	109.70	116.54
21	S4	120	LYS	CB-CA-C	-5.95	109.70	116.54
30	b3	175	GLY	CA-C-N	5.94	125.70	119.76
30	b3	175	GLY	C-N-CA	5.94	125.70	119.76
21	S1	120	LYS	CB-CA-C	-5.93	109.72	116.54
29	a3	281	SER	N-CA-C	5.93	118.19	109.24
29	a2	281	SER	N-CA-C	5.93	118.19	109.24
30	b1	175	GLY	CA-C-N	5.92	125.68	119.76
30	b1	175	GLY	C-N-CA	5.92	125.68	119.76
29	a4	281	SER	N-CA-C	5.92	118.18	109.24
25	W1	63	HIS	CA-C-N	5.90	125.58	119.56
25	W1	63	HIS	C-N-CA	5.90	125.58	119.56
30	b2	175	GLY	CA-C-N	5.89	125.65	119.76
30	b2	175	GLY	C-N-CA	5.89	125.65	119.76
29	a1	281	SER	N-CA-C	5.88	118.13	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	b3	306	ASN	N-CA-C	5.87	118.46	111.71
25	W2	63	HIS	CA-C-N	5.87	125.55	119.56
25	W2	63	HIS	C-N-CA	5.87	125.55	119.56
30	b4	175	GLY	CA-C-N	5.84	125.60	119.76
30	b4	175	GLY	C-N-CA	5.84	125.60	119.76
30	b2	306	ASN	N-CA-C	5.84	118.42	111.71
30	b1	306	ASN	N-CA-C	5.83	118.41	111.71
25	W3	63	HIS	CA-C-N	5.82	125.50	119.56
25	W3	63	HIS	C-N-CA	5.82	125.50	119.56
25	W4	63	HIS	CA-C-N	5.81	125.48	119.56
25	W4	63	HIS	C-N-CA	5.81	125.48	119.56
24	V4	305	VAL	N-CA-C	5.78	116.51	110.62
30	b4	306	ASN	N-CA-C	5.76	118.33	111.71
24	V1	305	VAL	N-CA-C	5.76	116.49	110.62
24	V3	305	VAL	N-CA-C	5.74	116.47	110.62
21	S4	245	LEU	CA-C-N	5.71	126.98	119.84
21	S4	245	LEU	C-N-CA	5.71	126.98	119.84
24	V2	305	VAL	N-CA-C	5.68	116.41	110.62
21	S2	245	LEU	CA-C-N	5.67	126.92	119.84
21	S2	245	LEU	C-N-CA	5.67	126.92	119.84
21	S1	245	LEU	CA-C-N	5.66	126.92	119.84
21	S1	245	LEU	C-N-CA	5.66	126.92	119.84
21	S4	175	VAL	N-CA-C	5.65	116.26	108.12
21	S3	245	LEU	CA-C-N	5.65	126.90	119.84
21	S3	245	LEU	C-N-CA	5.65	126.90	119.84
21	S3	175	VAL	N-CA-C	5.64	116.24	108.12
21	S1	175	VAL	N-CA-C	5.61	116.20	108.12
24	V4	319	LEU	N-CA-C	-5.60	104.19	111.02
24	V1	319	LEU	N-CA-C	-5.59	104.20	111.02
26	X1	95	ILE	CA-C-N	5.59	126.83	119.84
26	X1	95	ILE	C-N-CA	5.59	126.83	119.84
24	V3	319	LEU	N-CA-C	-5.59	104.20	111.02
26	X3	95	ILE	CA-C-N	5.56	126.78	119.84
26	X3	95	ILE	C-N-CA	5.56	126.78	119.84
21	S2	175	VAL	N-CA-C	5.55	116.12	108.12
26	X2	95	ILE	CA-C-N	5.55	126.78	119.84
26	X2	95	ILE	C-N-CA	5.55	126.78	119.84
26	X4	95	ILE	CA-C-N	5.53	126.76	119.84
26	X4	95	ILE	C-N-CA	5.53	126.76	119.84
30	b1	322	HIS	CA-C-N	5.53	125.15	119.56
30	b1	322	HIS	C-N-CA	5.53	125.15	119.56
30	b4	322	HIS	CA-C-N	5.53	125.14	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	b4	322	HIS	C-N-CA	5.53	125.14	119.56
30	b1	161	GLY	N-CA-C	5.51	119.33	111.12
24	V3	176	LEU	CA-C-N	5.51	126.37	119.98
24	V3	176	LEU	C-N-CA	5.51	126.37	119.98
30	b3	161	GLY	N-CA-C	5.51	119.33	111.12
30	b3	118	ASN	CB-CA-C	-5.50	110.22	116.54
30	b2	322	HIS	CA-C-N	5.50	125.11	119.56
30	b2	322	HIS	C-N-CA	5.50	125.11	119.56
24	V2	176	LEU	CA-C-N	5.49	126.35	119.98
24	V2	176	LEU	C-N-CA	5.49	126.35	119.98
30	b2	161	GLY	N-CA-C	5.49	119.31	111.12
30	b4	161	GLY	N-CA-C	5.49	119.29	111.12
30	b4	118	ASN	CB-CA-C	-5.46	110.26	116.54
24	V4	176	LEU	CA-C-N	5.46	126.31	119.98
24	V4	176	LEU	C-N-CA	5.46	126.31	119.98
23	U4	168	VAL	N-CA-C	5.46	116.09	110.36
30	b1	118	ASN	CB-CA-C	-5.45	110.27	116.54
24	V1	176	LEU	CA-C-N	5.45	126.30	119.98
24	V1	176	LEU	C-N-CA	5.45	126.30	119.98
30	b2	118	ASN	CB-CA-C	-5.44	110.28	116.54
21	S2	146	PRO	N-CD-CG	-5.43	95.05	103.20
21	S1	700	CYS	N-CA-C	-5.43	106.96	113.21
30	b3	104	CYS	N-CA-C	5.43	117.05	108.96
21	S4	700	CYS	N-CA-C	-5.42	106.97	113.21
23	U3	168	VAL	N-CA-C	5.42	116.05	110.36
21	S3	444	PHE	N-CA-C	-5.42	104.08	111.56
21	S3	700	CYS	N-CA-C	-5.42	106.98	113.21
21	S2	700	CYS	N-CA-C	-5.41	106.98	113.21
23	U2	168	VAL	N-CA-C	5.41	116.04	110.36
30	b1	104	CYS	N-CA-C	5.41	117.01	108.96
30	b4	104	CYS	N-CA-C	5.40	117.01	108.96
21	S2	379	GLY	N-CA-C	-5.39	100.39	113.18
21	S4	146	PRO	N-CD-CG	-5.39	95.11	103.20
21	S1	146	PRO	N-CD-CG	-5.39	95.11	103.20
27	Y4	298	SER	N-CA-C	5.39	117.38	109.24
27	Y2	298	SER	N-CA-C	5.38	117.37	109.24
30	b3	322	HIS	CA-C-N	5.38	125.00	119.56
30	b3	322	HIS	C-N-CA	5.38	125.00	119.56
30	b2	104	CYS	N-CA-C	5.38	116.98	108.96
21	S4	379	GLY	N-CA-C	-5.38	100.43	113.18
21	S3	379	GLY	N-CA-C	-5.38	100.43	113.18
21	S1	379	GLY	N-CA-C	-5.38	100.44	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	S3	146	PRO	N-CD-CG	-5.37	95.14	103.20
26	X2	320	SER	N-CA-C	5.37	115.33	108.24
21	S1	444	PHE	N-CA-C	-5.37	104.15	111.56
26	X1	320	SER	N-CA-C	5.37	115.33	108.24
26	X4	320	SER	N-CA-C	5.37	115.32	108.24
27	Y3	298	SER	N-CA-C	5.37	117.34	109.24
21	S2	883	SER	N-CA-C	-5.36	106.81	113.19
21	S3	883	SER	N-CA-C	-5.36	106.82	113.19
21	S4	883	SER	N-CA-C	-5.36	106.82	113.19
23	U1	168	VAL	N-CA-C	5.36	115.98	110.36
21	S2	227	SER	N-CA-C	5.35	119.09	112.24
21	S4	444	PHE	N-CA-C	-5.35	104.18	111.56
27	Y1	298	SER	N-CA-C	5.35	117.32	109.24
30	b4	167	ILE	N-CA-C	5.35	115.55	107.80
21	S1	227	SER	N-CA-C	5.34	119.08	112.24
26	X1	516	ASN	N-CA-C	-5.34	105.12	111.69
26	X3	516	ASN	N-CA-C	-5.34	105.12	111.69
21	S1	883	SER	N-CA-C	-5.33	106.85	113.19
26	X2	516	ASN	N-CA-C	-5.32	105.14	111.69
21	S2	444	PHE	N-CA-C	-5.32	104.22	111.56
23	U2	236	GLY	N-CA-C	-5.32	103.79	112.83
26	X3	320	SER	N-CA-C	5.32	115.26	108.24
30	b3	167	ILE	N-CA-C	5.31	115.50	107.80
30	b2	167	ILE	N-CA-C	5.31	115.50	107.80
21	S4	227	SER	N-CA-C	5.30	119.02	112.24
21	S1	121	GLU	N-CA-C	5.29	118.76	112.72
23	U4	236	GLY	N-CA-C	-5.29	103.83	112.83
21	S3	227	SER	N-CA-C	5.29	119.01	112.24
30	b4	48	GLU	N-CA-C	-5.28	101.55	109.79
30	b3	48	GLU	N-CA-C	-5.28	101.55	109.79
30	b1	48	GLU	N-CA-C	-5.28	101.56	109.79
21	S2	121	GLU	N-CA-C	5.27	118.73	112.72
23	U3	236	GLY	N-CA-C	-5.27	103.87	112.83
23	U1	236	GLY	N-CA-C	-5.27	103.87	112.83
26	X4	516	ASN	N-CA-C	-5.27	105.21	111.69
30	b1	167	ILE	N-CA-C	5.27	115.44	107.80
30	b2	48	GLU	N-CA-C	-5.27	101.57	109.79
21	S4	121	GLU	N-CA-C	5.26	118.72	112.72
19	Q3	193	PHE	CA-CB-CG	-5.26	108.54	113.80
19	Q1	193	PHE	CA-CB-CG	-5.25	108.55	113.80
19	Q4	217	SER	CA-C-N	5.24	127.30	120.28
19	Q4	217	SER	C-N-CA	5.24	127.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	V4	516	ILE	CB-CA-C	-5.24	105.17	112.04
24	V2	516	ILE	CB-CA-C	-5.23	105.19	112.04
19	Q2	217	SER	CA-C-N	5.22	127.28	120.28
19	Q2	217	SER	C-N-CA	5.22	127.28	120.28
24	V1	516	ILE	CB-CA-C	-5.22	105.19	112.04
26	X2	355	GLU	N-CA-C	-5.22	105.26	111.69
26	X1	355	GLU	N-CA-C	-5.22	105.27	111.69
24	V3	516	ILE	CB-CA-C	-5.21	105.21	112.04
26	X3	268	SER	N-CA-C	5.21	119.10	111.34
26	X4	355	GLU	N-CA-C	-5.20	105.30	111.69
27	Y4	290	SER	N-CA-C	5.19	117.22	110.53
21	S3	121	GLU	N-CA-C	5.18	118.63	112.72
24	V3	206	ASN	CA-C-N	-5.18	114.70	120.45
24	V3	206	ASN	C-N-CA	-5.18	114.70	120.45
26	X2	268	SER	N-CA-C	5.18	119.06	111.34
26	X1	268	SER	N-CA-C	5.17	119.05	111.34
27	Y3	165	LEU	N-CA-C	-5.17	106.47	112.89
27	Y3	59	VAL	N-CA-C	5.17	116.25	111.81
24	V1	206	ASN	CA-C-N	-5.16	114.73	120.45
24	V1	206	ASN	C-N-CA	-5.16	114.73	120.45
26	X4	268	SER	N-CA-C	5.16	119.02	111.34
21	S2	400	GLU	N-CA-C	5.14	117.62	111.71
21	S4	88	LEU	CA-C-N	5.14	125.07	119.78
21	S4	88	LEU	C-N-CA	5.14	125.07	119.78
24	V3	152	ALA	N-CA-C	5.14	116.75	108.32
24	V2	152	ALA	N-CA-C	5.13	116.74	108.32
24	V2	206	ASN	CA-C-N	-5.13	114.75	120.45
24	V2	206	ASN	C-N-CA	-5.13	114.75	120.45
26	X3	355	GLU	N-CA-C	-5.13	105.38	111.69
27	Y2	165	LEU	N-CA-C	-5.13	106.53	112.89
24	V4	152	ALA	N-CA-C	5.13	116.73	108.32
27	Y1	290	SER	N-CA-C	5.13	117.14	110.53
21	S1	88	LEU	CA-C-N	5.12	125.06	119.78
21	S1	88	LEU	C-N-CA	5.12	125.06	119.78
27	Y2	59	VAL	N-CA-C	5.12	116.21	111.81
24	V1	152	ALA	N-CA-C	5.12	116.72	108.32
17	O4	108	VAL	CB-CA-C	-5.12	108.92	114.35
21	S1	935	LEU	N-CA-C	-5.12	106.31	113.37
27	Y1	165	LEU	N-CA-C	-5.12	106.55	112.89
21	S2	935	LEU	N-CA-C	-5.11	106.32	113.37
27	Y2	290	SER	N-CA-C	5.11	117.12	110.53
17	O2	108	VAL	CB-CA-C	-5.11	108.94	114.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	V2	248	PRO	CA-C-N	-5.10	114.54	122.09
24	V2	248	PRO	C-N-CA	-5.10	114.54	122.09
24	V4	248	PRO	CA-C-N	-5.10	114.54	122.09
24	V4	248	PRO	C-N-CA	-5.10	114.54	122.09
26	X2	625	ALA	CA-C-N	5.10	124.28	118.97
26	X2	625	ALA	C-N-CA	5.10	124.28	118.97
17	O1	108	VAL	CB-CA-C	-5.10	108.94	114.35
17	O3	108	VAL	CB-CA-C	-5.10	108.94	114.35
24	V3	248	PRO	CA-C-N	-5.10	114.55	122.09
24	V3	248	PRO	C-N-CA	-5.10	114.55	122.09
24	V4	206	ASN	CA-C-N	-5.09	114.80	120.45
24	V4	206	ASN	C-N-CA	-5.09	114.80	120.45
27	Y4	165	LEU	N-CA-C	-5.09	106.57	112.89
21	S3	935	LEU	N-CA-C	-5.09	106.34	113.37
24	V1	248	PRO	CA-C-N	-5.09	114.55	122.09
24	V1	248	PRO	C-N-CA	-5.09	114.55	122.09
24	V2	328	SER	N-CA-C	-5.09	101.41	109.76
27	Y4	59	VAL	N-CA-C	5.09	116.18	111.81
2	A4	700	ASP	N-CA-C	5.08	117.95	110.59
24	V1	328	SER	N-CA-C	-5.07	101.45	109.76
21	S3	88	LEU	CA-C-N	5.07	125.00	119.78
21	S3	88	LEU	C-N-CA	5.07	125.00	119.78
26	X1	362	LEU	N-CA-C	5.07	117.92	111.69
21	S1	400	GLU	N-CA-C	5.06	117.53	111.71
27	Y1	59	VAL	N-CA-C	5.06	116.16	111.81
21	S3	400	GLU	N-CA-C	5.06	117.53	111.71
26	X3	362	LEU	N-CA-C	5.05	117.90	111.69
21	S4	400	GLU	N-CA-C	5.04	117.50	111.71
27	Y3	290	SER	N-CA-C	5.04	117.03	110.53
24	V4	328	SER	N-CA-C	-5.03	101.50	109.76
21	S4	935	LEU	N-CA-C	-5.03	106.43	113.37
24	V3	328	SER	N-CA-C	-5.03	101.51	109.76
2	A2	700	ASP	N-CA-C	5.01	117.86	110.59
21	S2	88	LEU	CA-C-N	5.01	124.94	119.78
21	S2	88	LEU	C-N-CA	5.01	124.94	119.78
26	X1	625	ALA	CA-C-N	5.01	124.18	118.97
26	X1	625	ALA	C-N-CA	5.01	124.18	118.97
26	X4	362	LEU	N-CA-C	5.01	117.85	111.69
33	h	231	ILE	CB-CA-C	-5.01	103.16	110.62

There are no chirality outliers.

All (38) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A1	891	GLY	Mainchain
1	A1	976	LEU	Peptide
2	A2	699	SER	Peptide
1	A3	891	GLY	Mainchain
1	A3	976	LEU	Peptide
2	A4	699	SER	Peptide
23	U1	151	GLY	Mainchain
23	U2	151	GLY	Mainchain
23	U3	151	GLY	Mainchain
23	U4	151	GLY	Mainchain
24	V1	371	PHE	Peptide
24	V1	392	TYR	Peptide
24	V2	371	PHE	Peptide
24	V2	392	TYR	Peptide
24	V3	371	PHE	Peptide
24	V3	392	TYR	Peptide
24	V4	371	PHE	Peptide
24	V4	392	TYR	Peptide
28	Z1	190	ASP	Mainchain
28	Z1	264	ASP	Sidechain
28	Z2	190	ASP	Mainchain
28	Z2	264	ASP	Sidechain
28	Z3	190	ASP	Mainchain
28	Z3	264	ASP	Sidechain
28	Z4	190	ASP	Mainchain
28	Z4	264	ASP	Sidechain
30	b1	233	TRP	Peptide
30	b1	50	THR	Peptide
30	b1	53	SER	Peptide
30	b2	233	TRP	Peptide
30	b2	50	THR	Peptide
30	b2	53	SER	Peptide
30	b3	233	TRP	Peptide
30	b3	50	THR	Peptide
30	b3	53	SER	Peptide
30	b4	233	TRP	Peptide
30	b4	50	THR	Peptide
30	b4	53	SER	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	9730	0	9629	542	0
1	A3	9730	0	9573	2342	0
2	A2	9946	0	9774	1876	0
2	A4	9946	0	9656	5076	0
3	A5	10030	0	9892	1575	0
3	A6	10030	0	9732	6093	0
4	B1	111	0	127	2	0
4	B2	111	0	127	26	0
4	B3	111	0	127	2	0
4	B4	111	0	127	27	0
4	B5	111	0	122	39	0
4	B6	111	0	118	191	0
5	C1	138	0	144	27	0
5	C2	157	0	157	354	0
5	C3	138	0	144	8	0
5	C4	157	0	164	63	0
5	C5	138	0	144	23	0
5	C6	138	0	144	22	0
6	D1	5034	0	4999	1044	0
6	D2	5034	0	5029	85	0
6	D3	5034	0	4965	1798	0
6	D4	5034	0	5030	96	0
6	D5	5034	0	5024	136	0
6	D6	5034	0	5027	88	0
6	D7	5034	0	5027	131	0
7	E1	63	0	65	2	0
7	E2	63	0	65	2	0
7	E3	63	0	65	2	0
7	E4	63	0	65	2	0
7	E5	63	0	65	2	0
7	E6	63	0	65	2	0
7	E7	63	0	65	2	0
8	F1	12779	0	12916	382	0
8	F2	12779	0	12917	133	0
9	G1	438	0	404	212	0
9	G2	438	0	412	74	0
10	H1	94	0	84	0	0
10	H2	94	0	84	0	0
11	I1	12307	0	12271	3218	0
11	I2	12307	0	12280	3272	0
11	I3	12307	0	12354	477	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	I4	12307	0	12360	283	0
11	I5	12307	0	12347	554	0
12	J1	504	0	485	55	0
12	J2	504	0	485	54	0
12	J3	504	0	487	32	0
12	J4	504	0	487	30	0
12	J5	504	0	487	31	0
13	K1	73	0	82	0	0
13	K2	73	0	82	0	0
13	K3	73	0	82	0	0
13	K4	73	0	82	0	0
13	K5	73	0	82	0	0
14	L1	15	0	11	0	0
14	L2	15	0	11	0	0
14	L3	15	0	11	0	0
14	L4	15	0	11	0	0
14	L5	15	0	11	0	0
15	M1	1372	0	1333	733	0
15	M2	1372	0	1361	52	0
15	M3	1372	0	1333	577	0
15	M4	1372	0	1363	4	0
16	N1	1401	0	1375	720	0
16	N2	1401	0	1397	77	0
16	N3	1401	0	1383	617	0
16	N4	1401	0	1398	10	0
17	O1	1971	0	1943	923	0
17	O2	1971	0	1962	421	0
17	O3	1971	0	1935	1245	0
17	O4	1971	0	1961	237	0
18	P1	900	0	910	61	0
18	P2	900	0	910	43	0
18	P3	900	0	908	150	0
18	P4	900	0	907	120	0
19	Q1	658	0	645	3	0
19	Q2	616	0	600	3	0
19	Q3	658	0	645	3	0
19	Q4	616	0	600	3	0
20	R1	311	0	315	351	0
20	R2	311	0	334	2	0
20	R3	311	0	313	469	0
20	R4	311	0	334	2	0
21	S1	6013	0	4977	337	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	S2	6013	0	4980	341	0
21	S3	6013	0	4983	251	0
21	S4	6013	0	4979	247	0
22	T1	1993	0	1975	291	0
22	T2	1993	0	1981	88	0
22	T3	1993	0	1981	106	0
22	T4	1993	0	1981	75	0
23	U1	3396	0	3352	661	0
23	U2	3404	0	3326	1240	0
23	U3	3404	0	3377	140	0
23	U4	3404	0	3378	83	0
24	V1	3805	0	3499	207	0
24	V2	3805	0	3499	138	0
24	V3	3805	0	3499	110	0
24	V4	3805	0	3499	115	0
25	W1	2160	0	2096	65	0
25	W2	2160	0	2096	76	0
25	W3	2160	0	2096	62	0
25	W4	2160	0	2096	129	0
26	X1	4535	0	4064	407	0
26	X2	4535	0	4032	1286	0
26	X3	4535	0	4068	239	0
26	X4	4535	0	4071	154	0
27	Y1	2438	0	2378	75	0
27	Y2	2438	0	2378	73	0
27	Y3	2438	0	2378	82	0
27	Y4	2438	0	2378	74	0
28	Z1	6622	0	5893	609	0
28	Z2	6622	0	5883	1038	0
28	Z3	6622	0	5893	616	0
28	Z4	6622	0	5885	853	0
29	a1	2587	0	2488	38	0
29	a2	2587	0	2488	85	0
29	a3	2587	0	2486	74	0
29	a4	2587	0	2488	38	0
30	b1	2638	0	2573	597	0
30	b2	2638	0	2573	606	0
30	b3	2638	0	2573	604	0
30	b4	2638	0	2573	612	0
31	c1	5980	0	5992	322	0
31	c2	5976	0	5981	540	0
31	c3	5976	0	5996	138	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	c4	5976	0	5949	1266	0
31	c5	5976	0	5997	305	0
32	g	3282	0	3310	45	0
33	h	1836	0	1893	50	0
34	i	3280	0	3277	1134	0
35	j	1197	0	1198	2	0
36	k1	719	0	713	2	0
37	k2	308	0	302	31	0
38	l1	460	0	94	1	0
39	l2	195	0	41	0	0
40	m1	440	0	93	1	0
41	m2	100	0	21	3	0
All	All	400581	0	386997	29463	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 37.

All (29463) 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:I2:950:LEU:HD11	16:N3:410:MET:SD	1.20	1.72
3:A6:444:ARG:HG2	6:D3:737:PHE:CZ	1.21	1.69
23:U2:391:HIS:CD2	31:c4:477:GLU:HA	1.23	1.69
27:Y1:41:ASP:HB3	29:a1:231[B]:HIS:CE1	1.17	1.69
23:U2:432:TYR:CE1	31:c4:464:LEU:HD12	1.18	1.68
2:A4:886:PHE:CZ	3:A6:176:LEU:HG	1.26	1.68
11:I1:833:PHE:CD2	17:O1:238:ALA:HA	1.27	1.68
27:Y3:41:ASP:HB3	29:a3:231[B]:HIS:CE1	1.17	1.68
2:A4:770:GLY:CA	3:A6:469:PHE:CD2	1.74	1.68
3:A5:1026:PRO:CB	11:I5:73:TYR:CD1	1.75	1.67
28:Z3:524:VAL:CG1	30:b3:236:THR:HG22	1.19	1.67
11:I1:1114:VAL:CG1	16:N1:432:TYR:CE2	1.77	1.67
28:Z4:528:ILE:CG1	30:b4:210:ARG:HH12	1.02	1.66
23:U2:391:HIS:CG	31:c4:477:GLU:CA	1.74	1.66
8:F1:1203:TRP:CZ2	17:O2:248:SER:HA	1.21	1.66
11:I3:1267:LEU:HD22	26:X1:497:ARG:CZ	1.23	1.66
26:X2:297:LYS:HB3	34:i:446:LYS:CE	1.25	1.66
11:I1:1669:ARG:CB	11:I2:1664:PHE:CZ	1.78	1.65
2:A2:1142:PHE:CE2	3:A5:567:VAL:CG2	1.79	1.65
11:I2:1109:LEU:HB2	17:O3:290:TYR:CE2	1.24	1.65
1:A3:1192:GLN:HB2	3:A6:645:PHE:CD2	1.13	1.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1109:LEU:CD1	17:O1:290:TYR:CZ	1.79	1.65
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CG	1.18	1.65
8:F1:1137:GLN:HA	17:O2:248:SER:CB	1.26	1.64
11:I1:1114:VAL:HG13	16:N1:432:TYR:CD2	1.18	1.64
23:U2:35:PRO:HB3	31:c4:531:TRP:CD1	1.20	1.64
28:Z3:528:ILE:CG1	30:b3:210:ARG:HH12	1.02	1.64
2:A2:1142:PHE:CZ	3:A5:567:VAL:CB	1.81	1.64
28:Z4:524:VAL:CG1	30:b4:236:THR:HG22	1.20	1.64
1:A3:1224:PRO:CB	2:A4:731:ILE:HD13	1.23	1.64
1:A3:1237:LEU:HD21	3:A6:119:TRP:CZ2	1.28	1.63
2:A2:870:HIS:CD2	6:D1:551:PHE:CB	1.81	1.63
2:A2:1149:THR:HG23	3:A5:172:PRO:CD	1.20	1.63
2:A4:691:LYS:HD2	3:A6:316:ARG:CD	1.26	1.63
2:A2:1137:ALA:CB	3:A5:564:ASN:HB2	1.19	1.63
1:A3:1249:PHE:CD1	3:A6:584:GLY:HA2	1.18	1.63
1:A3:1260:ALA:HB1	3:A6:719:ARG:CD	1.21	1.63
2:A4:854:VAL:CG1	3:A6:171:HIS:HD1	1.03	1.63
3:A6:520:GLU:CA	6:D3:639:LEU:HD11	1.26	1.63
11:I1:1040:HIS:CD2	16:N1:437:VAL:HG21	1.24	1.63
11:I1:1104:LEU:CD2	20:R1:174:ARG:HD2	1.20	1.63
11:I1:1108:PRO:HG3	16:N1:443:GLU:CB	1.29	1.63
28:Z4:524:VAL:HG13	30:b4:236:THR:CB	1.22	1.63
2:A2:1142:PHE:CE1	3:A5:567:VAL:HG23	1.10	1.63
2:A4:677:ALA:CA	3:A6:98:LEU:HG	1.23	1.63
6:D6:804:SER:HB2	22:T3:764:PHE:CE2	1.16	1.63
9:G1:263:MET:HA	16:N2:411:GLN:CB	1.17	1.63
11:I1:952:LEU:CD1	16:N1:400:LEU:HD21	1.25	1.63
18:P2:320:GLN:CG	18:P3:278:ASN:HB2	1.16	1.63
28:Z1:551:THR:CG2	30:b1:233:TRP:CZ3	1.79	1.63
28:Z3:551:THR:CG2	30:b3:233:TRP:CZ3	1.79	1.63
1:A3:1228:TYR:CD1	3:A6:551:GLN:HA	1.34	1.62
2:A4:93:ASP:CB	3:A6:361:ASP:HB3	1.21	1.62
2:A4:652:PRO:HB3	3:A6:542:LEU:CD1	1.29	1.62
2:A4:720:LEU:HD12	3:A6:510:TYR:CE1	1.27	1.62
11:I1:1669:ARG:HB2	11:I2:1664:PHE:CE1	1.23	1.62
11:I3:1267:LEU:HD11	26:X1:529:TRP:CE3	1.11	1.63
2:A4:771:ILE:HD11	3:A6:476:PHE:CZ	1.34	1.62
2:A4:976:LEU:HD13	6:D3:472:PHE:CE2	1.12	1.62
1:A3:1237:LEU:HD21	3:A6:119:TRP:CE2	1.20	1.62
2:A4:859:GLN:CD	3:A6:134:VAL:HG21	1.20	1.62
11:I2:834:SER:CB	17:O3:237:PRO:HA	1.19	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:691:LYS:HB3	3:A6:316:ARG:CZ	1.17	1.62
6:D6:800:PRO:CG	22:T3:765:LYS:HG3	1.14	1.62
11:I1:962:ILE:HD13	15:M1:596:ILE:CG2	1.22	1.62
11:I1:1104:LEU:HD23	20:R1:174:ARG:CD	1.28	1.62
11:I2:1109:LEU:CB	17:O3:290:TYR:HE2	1.04	1.62
27:Y2:41:ASP:HB3	29:a2:231[B]:HIS:CE1	1.17	1.62
27:Y4:41:ASP:HB3	29:a4:231[B]:HIS:CE1	1.17	1.62
28:Z2:551:THR:CG2	30:b2:233:TRP:CZ3	1.79	1.62
2:A4:868:GLN:HG2	6:D3:608:ILE:CD1	1.20	1.62
2:A4:909:LYS:HG2	6:D3:552:TYR:CE2	1.22	1.62
3:A6:520:GLU:HG3	6:D3:681:ALA:CB	1.28	1.62
11:I2:841:PHE:CD1	15:M3:588:MET:HG3	1.31	1.62
2:A4:872:ALA:CB	6:D3:565:MET:HE3	1.16	1.61
2:A4:983:LEU:HG	6:D3:528:PHE:CE1	1.10	1.61
11:I1:996:LEU:CD2	16:N1:410:MET:HE2	1.22	1.61
11:I3:1267:LEU:HD21	26:X1:529:TRP:CZ3	1.35	1.61
23:U1:434:THR:HG22	31:c2:479:ILE:CG2	1.17	1.61
28:Z1:524:VAL:HG13	30:b1:236:THR:CB	1.22	1.61
2:A2:988:ARG:CB	6:D1:500:LYS:HZ3	0.99	1.61
3:A6:1403:MSE:CE	28:Z4:964:LEU:CB	1.78	1.61
26:X2:369:GLU:CB	34:i:428:LEU:HD21	1.25	1.61
1:A3:1249:PHE:HB3	3:A6:633:MET:SD	1.39	1.61
1:A3:1261:TYR:CD2	3:A6:621:GLN:HG3	1.26	1.61
8:F1:1262:HIS:CE1	17:O2:259:ASP:HB2	1.12	1.61
1:A3:1285:LEU:C	3:A6:581:LYS:HZ2	1.01	1.61
2:A4:878:LEU:CB	6:D3:567:LEU:HD13	1.17	1.61
2:A4:986:THR:CB	6:D3:504:LYS:HD3	1.14	1.61
3:A5:1368:GLN:CB	28:Z2:841:ALA:HA	1.23	1.61
2:A2:870:HIS:CD2	6:D1:551:PHE:HB3	1.29	1.61
1:A3:1278:PRO:CG	3:A6:624:ASP:HB2	1.26	1.61
28:Z1:410:ASN:HB2	30:b1:251:ILE:CD1	1.25	1.61
3:A5:1027:HIS:CE1	11:I5:65:LYS:CB	1.79	1.60
11:I2:900:ARG:CA	17:O3:232:LYS:HG2	1.30	1.60
23:U2:398:ILE:CD1	31:c4:535:VAL:HB	1.17	1.60
26:X2:365:ILE:CG2	34:i:424:LEU:HD12	1.16	1.60
28:Z2:410:ASN:HB2	30:b2:251:ILE:CD1	1.25	1.60
2:A4:713:ILE:HG13	3:A6:462:LEU:CD1	1.31	1.60
22:T1:720:ILE:HG22	31:c5:31:TYR:CE2	1.18	1.60
28:Z1:524:VAL:CG1	30:b1:236:THR:HG22	1.20	1.60
28:Z2:528:ILE:CG1	30:b2:210:ARG:HH12	1.02	1.60
2:A2:1154:PHE:CE1	4:B5:342:ARG:HD2	1.37	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:549:ALA:CB	3:A6:365:MET:CE	1.77	1.60
3:A6:484:PRO:CG	6:D3:672:GLU:HG2	1.30	1.60
23:U1:19:LEU:HD12	31:c2:470:ARG:CD	1.23	1.60
11:I1:927:HIS:CD2	15:M1:594:LYS:HA	1.12	1.60
11:I1:1049:LEU:HD12	15:M1:626:HIS:CD2	1.08	1.60
26:X2:291:LEU:CA	34:i:415:SER:CB	1.78	1.60
2:A4:868:GLN:HB3	6:D3:570:VAL:CB	1.17	1.60
3:A6:444:ARG:HD2	6:D3:733:ALA:CB	1.32	1.60
23:U2:38:ILE:HD11	31:c4:531:TRP:CZ2	1.28	1.60
2:A2:973:GLU:HG2	6:D1:192:TYR:CE2	1.08	1.59
1:A3:1189:LEU:HD22	3:A6:614:ALA:CB	1.20	1.59
2:A4:720:LEU:CG	3:A6:494:PRO:HA	1.16	1.59
2:A4:720:LEU:CD1	3:A6:510:TYR:HE1	1.09	1.59
2:A4:729:SER:CB	3:A6:678:LEU:HD21	1.29	1.59
2:A4:875:LEU:HD12	6:D3:567:LEU:CD2	1.17	1.59
6:D6:800:PRO:CB	22:T3:765:LYS:HG3	1.32	1.59
11:I1:976:ARG:CB	20:R1:149:ARG:HB3	1.31	1.59
11:I3:1267:LEU:CD2	26:X1:497:ARG:CZ	1.76	1.59
3:A5:1101:GLN:HE22	11:I5:33:THR:CG2	1.07	1.59
8:F1:1203:TRP:CZ2	17:O2:248:SER:CA	1.80	1.59
28:Z3:524:VAL:HG13	30:b3:236:THR:CB	1.22	1.59
2:A4:80:LYS:CD	3:A6:387:THR:HG23	1.31	1.59
2:A4:720:LEU:CB	3:A6:494:PRO:CA	1.75	1.59
11:I1:947:LEU:HA	16:N1:407:ALA:CB	1.31	1.59
2:A4:611:ILE:HG21	3:A6:508:LEU:CD1	1.19	1.59
11:I1:880:MET:HE2	17:O1:247:TRP:CZ3	1.37	1.59
11:I1:981:VAL:CG1	20:R1:151:LYS:HB2	1.13	1.59
11:I4:813:ILE:HD12	26:X3:496:THR:CG2	1.23	1.59
23:U1:198:GLU:CG	31:c1:622:ILE:HD11	1.26	1.59
23:U1:406:GLU:H	31:c2:548:VAL:CG2	1.05	1.59
3:A6:1360:GLY:HA2	28:Z4:918:PHE:CB	1.31	1.59
28:Z1:528:ILE:CG1	30:b1:210:ARG:HH12	1.02	1.59
1:A3:1248:ILE:CD1	3:A6:587:VAL:HG22	1.26	1.58
2:A4:677:ALA:HA	3:A6:98:LEU:CD1	1.15	1.58
2:A4:691:LYS:CG	3:A6:316:ARG:CD	1.79	1.58
11:I1:1667:GLN:CG	11:I2:1665:LEU:HG	1.21	1.58
11:I2:948:ALA:CB	17:O3:256:TYR:HB3	1.32	1.58
11:I3:1275:SER:CB	26:X1:522:MET:HA	1.23	1.58
26:X2:321:ALA:HB2	34:i:84:ARG:CD	1.15	1.58
28:Z1:410:ASN:CA	30:b1:251:ILE:HD12	1.32	1.58
28:Z4:410:ASN:HB2	30:b4:251:ILE:CD1	1.24	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:HA	3:A6:578:ILE:CB	1.13	1.58
1:A3:1278:PRO:HB2	3:A6:624:ASP:CA	1.32	1.58
2:A4:496:THR:CG2	3:A6:366:ALA:HB2	1.29	1.58
23:U1:172:LYS:HD3	31:c1:506:HIS:CA	1.26	1.58
28:Z3:410:ASN:CA	30:b3:251:ILE:HD12	1.32	1.58
2:A4:875:LEU:CD1	6:D3:567:LEU:HD23	1.20	1.58
11:I1:884:LEU:CG	17:O1:246:LEU:HD21	1.23	1.58
11:I2:938:CYS:SG	15:M3:606:LEU:HD12	1.40	1.58
23:U2:394:ILE:CG2	31:c4:535:VAL:HG23	1.25	1.58
26:X2:329:ARG:HD2	34:i:476:LEU:CG	1.19	1.58
2:A2:970:PHE:HD1	6:D1:192:TYR:CE1	1.19	1.58
2:A4:677:ALA:CA	3:A6:98:LEU:CG	1.75	1.58
2:A4:878:LEU:CD2	6:D3:607:PRO:HB2	1.16	1.58
11:I1:846:ILE:HD12	15:M1:594:LYS:CE	1.15	1.58
11:I1:1041:GLN:HB3	15:M1:620:VAL:CG2	1.23	1.58
26:X2:361:LEU:CG	34:i:423:LYS:HD2	1.32	1.58
28:Z2:410:ASN:CA	30:b2:251:ILE:HD12	1.32	1.58
28:Z4:551:THR:CG2	30:b4:233:TRP:CZ3	1.79	1.58
3:A6:444:ARG:CD	6:D3:733:ALA:HB1	1.28	1.58
11:I2:834:SER:HB3	17:O3:237:PRO:CA	1.22	1.58
11:I2:1109:LEU:CG	16:N3:438:LEU:HD22	1.26	1.58
23:U1:16:SER:CB	31:c2:470:ARG:HE	1.17	1.58
1:A1:1224:PRO:HD3	2:A2:731:ILE:CG1	1.33	1.57
1:A3:1254:LEU:CD1	3:A6:638:GLU:HG3	1.22	1.57
2:A4:775:LEU:HB2	3:A6:489:LEU:CD1	1.31	1.57
4:B5:344:ALA:CB	5:C2:737:LYS:HD3	1.31	1.57
11:I1:846:ILE:HG22	17:O1:247:TRP:CZ2	1.39	1.57
11:I2:884:LEU:CD1	16:N3:400:LEU:HD11	1.22	1.57
2:A4:692:VAL:HG11	3:A6:467:LEU:CD2	1.14	1.57
28:Z2:524:VAL:CG1	30:b2:236:THR:HG22	1.20	1.57
2:A4:677:ALA:HA	3:A6:98:LEU:CG	1.16	1.57
2:A4:689:LYS:CD	3:A6:336:ILE:HD13	1.21	1.57
3:A6:520:GLU:HA	6:D3:639:LEU:CD1	1.23	1.57
1:A1:870:HIS:HB2	6:D3:279:HIS:C	1.29	1.57
2:A4:868:GLN:CB	6:D3:570:VAL:CG1	1.83	1.57
2:A4:983:LEU:HB2	6:D3:528:PHE:CZ	1.09	1.57
11:I1:952:LEU:HA	16:N1:400:LEU:CD2	1.34	1.57
11:I2:896:PRO:CA	17:O3:233:THR:HA	1.20	1.57
23:U2:83:VAL:CG2	31:c4:557:HIS:CE1	1.84	1.57
2:A4:872:ALA:HB1	6:D3:565:MET:CE	1.34	1.57
2:A4:975:GLU:HB3	6:D3:501:LEU:CD1	1.30	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1374:ALA:CB	28:Z2:823:ALA:CB	1.77	1.57
11:I1:990:GLU:CG	17:O1:275:LEU:HD23	1.23	1.57
23:U1:198:GLU:HG3	31:c1:622:ILE:CD1	1.30	1.57
26:X1:403:HIS:HE1	37:k2:450:HIS:CE1	0.91	1.57
2:A4:89:LEU:CD1	3:A6:406:LEU:HD12	1.35	1.56
3:A6:484:PRO:HG2	6:D3:672:GLU:CG	1.20	1.56
11:I2:874:LEU:CA	17:O3:255:GLY:HA3	1.17	1.56
11:I2:952:LEU:HD13	17:O3:250:LEU:CD1	1.12	1.56
2:A4:908:LEU:HA	6:D3:552:TYR:CE1	1.38	1.56
2:A4:978:ASP:HB3	6:D3:476:VAL:CG2	1.33	1.56
11:I1:919:ALA:HB2	16:N1:389:PHE:CA	1.21	1.56
11:I2:998:ALA:HB3	17:O3:267:ALA:CB	1.33	1.56
11:I2:1039:ALA:CA	20:R3:170:LEU:HG	1.35	1.56
18:P2:320:GLN:HG3	18:P3:278:ASN:CB	1.35	1.56
2:A2:973:GLU:HG3	6:D1:192:TYR:CZ	1.37	1.56
1:A3:1271:ILE:HG23	3:A6:553:ASP:CB	1.10	1.56
23:U3:278:GLN:CD	25:W4:189:SER:CA	1.75	1.56
2:A4:715:GLU:HB3	3:A6:112:MET:SD	1.40	1.56
2:A4:720:LEU:HD22	3:A6:494:PRO:CB	1.14	1.56
2:A4:859:GLN:CG	3:A6:134:VAL:HG23	1.24	1.56
2:A4:986:THR:CG2	6:D3:504:LYS:CG	1.82	1.56
11:I3:1275:SER:HB3	26:X1:522:MET:CA	1.18	1.56
23:U1:18:THR:CG2	31:c2:473:THR:HG23	1.32	1.56
26:X2:361:LEU:HG	34:i:423:LYS:CD	1.17	1.56
28:Z3:410:ASN:HB2	30:b3:251:ILE:CD1	1.25	1.56
2:A4:806:PHE:HB2	3:A6:382:SER:CB	1.28	1.56
2:A4:866:SER:C	6:D3:598:ILE:HG12	1.23	1.56
11:I1:880:MET:HE2	17:O1:247:TRP:CE3	1.37	1.56
11:I1:945:LEU:HD21	17:O1:258:GLU:CB	1.36	1.56
11:I1:1607:GLN:HG2	11:I2:1739:GLU:CA	1.29	1.56
11:I2:952:LEU:CD1	17:O3:250:LEU:CD1	1.80	1.56
11:I2:966:TRP:CZ3	20:R3:167:GLN:NE2	1.68	1.56
11:I2:998:ALA:CB	17:O3:267:ALA:HB2	1.32	1.56
23:U2:404:VAL:CG1	31:c4:544:VAL:N	1.68	1.56
23:U2:436:LEU:CD1	31:c4:540:HIS:HB3	1.36	1.56
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CA	1.35	1.55
11:I1:833:PHE:CE2	17:O1:238:ALA:CA	1.74	1.55
18:P1:279:GLY:CA	18:P4:326:GLN:NE2	1.69	1.55
28:Z2:524:VAL:HG13	30:b2:236:THR:CB	1.22	1.55
1:A3:1021:LEU:HB3	6:D3:816:VAL:CG1	1.22	1.55
11:I1:996:LEU:CD2	16:N1:410:MET:CE	1.84	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1277:LEU:HD11	26:X1:511:TYR:CD2	1.40	1.55
23:U1:172:LYS:CG	31:c1:506:HIS:HA	1.30	1.55
2:A2:989:MSE:CE	6:D1:240:ASP:HA	1.10	1.55
2:A2:1149:THR:CG2	3:A5:172:PRO:HD2	1.16	1.55
2:A4:691:LYS:CD	3:A6:316:ARG:HD3	1.08	1.55
11:I1:950:LEU:CD2	16:N1:406:HIS:CD2	1.74	1.55
11:I1:1041:GLN:CB	15:M1:620:VAL:HG23	1.08	1.55
23:U2:432:TYR:CE1	31:c4:464:LEU:CD1	1.86	1.55
28:Z3:526:ARG:HB3	30:b3:206:ASN:CG	1.14	1.55
28:Z4:526:ARG:HB3	30:b4:206:ASN:CG	1.14	1.55
2:A2:980:ARG:HG2	6:D1:473:GLU:CG	1.23	1.55
2:A2:986:THR:HG21	6:D1:504:LYS:CD	1.33	1.55
1:A3:1017:THR:CG2	6:D3:819:ASN:HB3	1.36	1.55
2:A4:789:LEU:CD2	3:A6:146:LYS:CB	1.82	1.55
8:F1:158:PRO:CG	11:I1:1207:PRO:HD3	1.34	1.55
11:I2:1021:ILE:HG12	16:N3:410:MET:CE	1.29	1.55
11:I3:1267:LEU:CB	26:X1:497:ARG:NH1	1.67	1.55
22:T1:741:ASP:CA	31:c5:24:GLN:HE21	1.03	1.55
28:Z1:524:VAL:CB	30:b1:236:THR:HG22	1.35	1.55
1:A3:1271:ILE:CB	3:A6:550:VAL:HB	1.30	1.55
1:A3:1271:ILE:CG2	3:A6:553:ASP:HB2	1.24	1.55
2:A4:549:ALA:HB2	3:A6:365:MET:CE	1.34	1.55
11:I1:846:ILE:CD1	15:M1:594:LYS:HE3	1.35	1.55
11:I1:846:ILE:HD13	15:M1:594:LYS:CB	1.18	1.55
11:I2:900:ARG:CB	17:O3:232:LYS:HD3	1.30	1.55
11:I2:944:GLU:HA	17:O3:256:TYR:CE1	1.39	1.55
11:I2:1021:ILE:HA	16:N3:406:HIS:CE1	1.36	1.55
11:I1:880:MET:HB2	17:O1:250:LEU:CB	1.14	1.54
2:A2:1138:GLU:HB2	3:A5:147:LEU:CD1	1.11	1.54
1:A3:1226:LEU:CD2	3:A6:550:VAL:H	1.14	1.54
2:A4:760:LEU:HD13	3:A6:388:GLU:CG	1.26	1.54
2:A4:822:ILE:HG23	3:A6:526:ILE:CD1	1.30	1.54
2:A4:865:ALA:HB1	6:D3:567:LEU:CD2	1.37	1.54
11:I1:1665:LEU:CG	11:I2:1667:GLN:HG2	1.29	1.54
11:I3:1267:LEU:CD1	26:X1:529:TRP:CE3	1.90	1.54
1:A3:1017:THR:HG22	6:D3:819:ASN:CB	1.35	1.54
1:A3:1248:ILE:CG1	3:A6:587:VAL:CA	1.81	1.54
1:A3:1259:CYS:SG	3:A6:624:ASP:HA	1.47	1.54
2:A4:878:LEU:HD22	6:D3:607:PRO:CB	1.32	1.54
3:A5:1365:VAL:HA	28:Z2:841:ALA:CB	1.07	1.54
23:U1:16:SER:CA	31:c2:470:ARG:NE	1.68	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:19:LEU:HB2	31:c2:470:ARG:CB	1.14	1.54
26:X2:297:LYS:CG	34:i:446:LYS:HE2	1.11	1.54
28:Z4:410:ASN:CA	30:b4:251:ILE:HD12	1.32	1.54
1:A3:1116:HIS:CB	3:A6:596:ARG:NH2	1.70	1.54
2:A4:760:LEU:CD1	3:A6:388:GLU:CG	1.76	1.54
2:A4:868:GLN:CB	6:D3:570:VAL:HG11	1.16	1.54
2:A4:876:ARG:CD	6:D3:558:LYS:HA	1.16	1.54
2:A4:970:PHE:N	6:D3:202:GLN:CG	1.68	1.54
11:I1:1108:PRO:HG3	16:N1:443:GLU:CA	1.30	1.54
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CG1	1.69	1.54
1:A3:1223:GLU:HB2	2:A4:676:LEU:CD1	1.33	1.54
2:A4:889:VAL:HG13	3:A6:171:HIS:CG	1.41	1.54
11:I1:1607:GLN:CG	11:I2:1739:GLU:HA	1.32	1.54
18:P1:276:SER:CB	18:P4:322:LYS:CE	1.83	1.54
1:A3:1248:ILE:CD1	3:A6:587:VAL:CG2	1.78	1.53
2:A4:702:SER:HB2	3:A6:379:VAL:CG1	1.34	1.53
2:A4:824:ASN:C	3:A6:138:LEU:CD1	1.77	1.53
3:A6:1410:ALA:N	26:X4:686:ASP:CB	1.71	1.53
8:F1:1205:TRP:CG	17:O2:254:ARG:HD2	1.40	1.53
9:G2:263:MET:SD	17:O4:263:GLN:HB2	1.47	1.53
11:I1:922:ASP:H	15:M1:592:LEU:CD2	1.19	1.53
26:X2:192:LEU:CG	34:i:443:THR:HG23	1.10	1.53
1:A3:1249:PHE:CE1	3:A6:584:GLY:CA	1.90	1.53
2:A4:710:LEU:HB2	3:A6:480:VAL:CG2	1.34	1.53
26:X2:187:THR:HG22	34:i:444:GLU:CB	1.32	1.53
2:A4:878:LEU:HD22	6:D3:607:PRO:CG	1.31	1.53
2:A4:958:LEU:HD13	4:B6:342:ARG:C	1.24	1.53
8:F1:1137:GLN:CG	17:O2:249:ARG:H	1.15	1.53
11:I1:950:LEU:HD22	16:N1:406:HIS:CD2	1.01	1.53
11:I3:1276:GLN:NE2	26:X1:535:ALA:CA	1.69	1.53
26:X2:291:LEU:HA	34:i:415:SER:CB	1.11	1.53
26:X2:317:PHE:CB	34:i:400:LYS:HZ1	1.17	1.53
1:A3:1225:PRO:CD	3:A6:548:LEU:HD11	1.36	1.53
1:A3:1306:PRO:CB	3:A6:715:GLU:HB3	1.33	1.53
2:A4:868:GLN:HB3	6:D3:570:VAL:CG1	1.33	1.53
2:A4:868:GLN:CA	6:D3:570:VAL:HG11	1.10	1.53
2:A4:878:LEU:HB2	6:D3:567:LEU:CD1	1.38	1.53
3:A5:153:ILE:HD12	5:C2:739:MET:CE	1.37	1.53
11:I2:942:HIS:CB	17:O3:259:ASP:CG	1.82	1.53
11:I2:955:LYS:H	16:N3:403:VAL:CG2	1.14	1.53
1:A3:1248:ILE:CG1	3:A6:587:VAL:HA	1.32	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1248:ILE:HG13	3:A6:587:VAL:CB	1.36	1.53
2:A4:975:GLU:CA	6:D3:499:LEU:HB2	1.32	1.53
3:A5:1395:LYS:CB	28:Z2:873:LEU:CB	1.87	1.53
8:F1:1203:TRP:HZ2	17:O2:248:SER:CB	1.12	1.53
11:I1:1669:ARG:CB	11:I2:1664:PHE:CE1	1.84	1.53
11:I2:884:LEU:HD12	16:N3:400:LEU:CD1	1.27	1.53
17:O4:110:LEU:CD2	18:P4:321:ILE:H	1.03	1.53
1:A3:1189:LEU:HD11	3:A6:579:PHE:CE1	1.00	1.52
2:A4:757:LEU:HB2	3:A6:543:GLY:C	1.31	1.52
11:I1:883:ALA:HB3	17:O1:246:LEU:CB	1.30	1.52
11:I2:833:PHE:CE1	17:O3:245:GLU:CD	1.83	1.52
11:I2:885:GLU:CA	16:N3:397:GLU:HG2	1.23	1.52
11:I3:1278:ALA:H	26:X1:519:ILE:CG2	1.11	1.52
28:Z3:524:VAL:CB	30:b3:236:THR:HG22	1.35	1.52
28:Z4:524:VAL:CB	30:b4:236:THR:HG22	1.35	1.52
2:A2:973:GLU:CG	6:D1:192:TYR:CE2	1.84	1.52
2:A4:702:SER:C	3:A6:399:ASP:CB	1.76	1.52
2:A4:893:LEU:CD1	3:A6:175:GLU:CG	1.78	1.52
23:U3:278:GLN:CG	25:W4:189:SER:HA	1.39	1.52
2:A2:826:ASN:CG	6:D1:633:LYS:HB3	1.28	1.52
2:A2:870:HIS:HE1	6:D1:566:PHE:CA	1.12	1.52
8:F1:1262:HIS:NE2	17:O2:259:ASP:HB2	1.23	1.52
23:U1:38:ILE:HG12	31:c2:473:THR:CB	1.07	1.52
23:U2:25:GLU:CB	31:c4:486:VAL:HG12	1.39	1.52
1:A3:1248:ILE:CG1	3:A6:587:VAL:HG13	1.38	1.52
2:A4:781:ARG:CZ	6:D3:633:LYS:HE2	1.33	1.52
22:T1:755:GLU:CB	31:c5:58:ARG:NH2	1.71	1.52
28:Z2:526:ARG:HB3	30:b2:206:ASN:CG	1.14	1.52
3:A6:1368:GLN:HA	28:Z4:875:LEU:CA	1.24	1.52
26:X1:403:HIS:CE1	37:k2:450:HIS:CD2	1.98	1.52
28:Z2:524:VAL:CB	30:b2:236:THR:HG22	1.35	1.52
1:A1:870:HIS:C	6:D3:279:HIS:HB3	1.35	1.51
1:A3:1278:PRO:CB	3:A6:624:ASP:HB2	1.36	1.51
2:A4:93:ASP:HB3	3:A6:361:ASP:CB	1.08	1.51
2:A4:721:ARG:H	3:A6:493:ALA:C	1.09	1.51
11:I1:1052:LEU:CB	16:N1:438:LEU:HD11	1.29	1.51
26:X2:321:ALA:CB	34:i:84:ARG:HE	1.21	1.51
1:A3:1228:TYR:HD1	3:A6:551:GLN:CA	1.20	1.51
1:A3:1261:TYR:CE1	3:A6:621:GLN:CB	1.88	1.51
2:A4:90:GLN:NE2	3:A6:427:MET:CG	1.69	1.51
2:A4:543:GLY:C	3:A6:365:MET:H	1.02	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:919:ALA:CB	16:N1:389:PHE:HA	1.36	1.51
11:I1:953:LEU:N	16:N1:403:VAL:CG2	1.70	1.51
2:A2:1154:PHE:HD2	3:A5:175:GLU:CD	1.11	1.51
1:A3:1186:TRP:CH2	3:A6:637:THR:HG23	1.41	1.51
1:A3:1240:HIS:CE1	3:A6:118:SER:HB3	1.43	1.51
2:A4:689:LYS:HD2	3:A6:336:ILE:CD1	1.07	1.51
2:A4:701:ILE:CG1	3:A6:466:ALA:HB2	1.35	1.51
2:A4:713:ILE:CG1	3:A6:462:LEU:CD1	1.88	1.51
3:A5:1031:TYR:CD1	11:I5:67:LYS:NZ	1.74	1.51
11:I1:833:PHE:CE2	17:O1:238:ALA:HA	0.99	1.51
11:I1:1108:PRO:CG	16:N1:443:GLU:N	1.70	1.51
11:I2:980:ILE:HD13	15:M3:622:VAL:CG2	1.38	1.51
23:U1:202:LEU:CD1	31:c1:571:GLN:CD	1.82	1.51
11:I1:880:MET:CB	17:O1:250:LEU:HB3	1.38	1.51
11:I2:981:VAL:CA	20:R3:147:LEU:HD21	1.03	1.51
11:I2:1039:ALA:CB	20:R3:170:LEU:CD2	1.89	1.51
11:I4:819:MET:HE1	27:Y3:178:PHE:CE1	1.39	1.51
28:Z1:401:THR:CB	30:b1:253:SER:C	1.82	1.51
2:A2:974:PRO:CD	6:D1:205:LEU:HD23	1.40	1.51
2:A4:692:VAL:CG1	3:A6:467:LEU:HD23	1.06	1.51
2:A4:859:GLN:CD	3:A6:134:VAL:CG2	1.78	1.51
3:A5:232:LEU:CD1	5:C2:739:MET:HG3	1.38	1.51
11:I4:1270:LYS:HE3	26:X3:527:VAL:CG1	1.37	1.51
22:T1:720:ILE:CG2	31:c5:31:TYR:CE2	1.93	1.51
24:V1:339:LEU:CG	31:c1:627:ASP:HA	1.40	1.51
26:X2:365:ILE:HG22	34:i:424:LEU:CD1	1.37	1.51
2:A2:974:PRO:HD2	6:D1:205:LEU:CD2	1.40	1.50
2:A4:757:LEU:HD12	3:A6:543:GLY:CA	1.39	1.50
2:A4:770:GLY:HA3	3:A6:469:PHE:CB	1.09	1.50
2:A4:822:ILE:CG2	3:A6:526:ILE:HD11	1.35	1.50
2:A4:909:LYS:CG	6:D3:552:TYR:CE2	1.83	1.50
21:S1:668:ILE:CA	21:S2:1146:ALA:HB1	1.16	1.50
1:A1:1224:PRO:HD3	2:A2:731:ILE:CD1	1.41	1.50
2:A2:1094:ILE:CD1	6:D2:759:GLN:NE2	1.68	1.50
1:A3:1248:ILE:CG1	3:A6:587:VAL:CB	1.85	1.50
3:A5:1094:ILE:HG23	11:I5:4:LEU:CB	1.37	1.50
3:A6:444:ARG:CD	6:D3:733:ALA:CB	1.82	1.50
11:I2:1109:LEU:CD1	17:O3:286:ILE:HG22	1.42	1.50
28:Z1:526:ARG:HB3	30:b1:206:ASN:CG	1.14	1.50
2:A4:701:ILE:CG1	3:A6:466:ALA:CB	1.89	1.50
2:A4:983:LEU:CG	6:D3:528:PHE:CE1	1.91	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1205:TRP:CD1	17:O2:254:ARG:HD2	1.44	1.50
22:T1:741:ASP:CG	31:c5:24:GLN:HB2	1.12	1.50
3:A5:1098:ARG:NE	11:I5:29:GLN:CG	1.73	1.50
26:X2:367:SER:C	34:i:441:LEU:CD2	1.81	1.50
28:Z3:524:VAL:HG13	30:b3:236:THR:CG2	1.02	1.50
1:A1:1399:ARG:HG2	2:A2:884:ARG:CG	1.38	1.50
2:A4:611:ILE:HG22	3:A6:508:LEU:CD2	1.37	1.50
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CD	1.24	1.50
2:A2:970:PHE:CD1	6:D1:192:TYR:HE1	1.28	1.50
1:A3:1189:LEU:CD1	3:A6:579:PHE:HE1	0.87	1.50
1:A3:1236:GLN:CG	3:A6:581:LYS:HB3	1.42	1.50
2:A4:555:VAL:HG22	3:A6:437:ARG:NH2	1.23	1.50
2:A4:701:ILE:HG13	3:A6:466:ALA:CB	1.42	1.50
2:A4:780:GLU:CG	6:D3:679:ILE:CG1	1.74	1.50
8:F1:1267:ARG:HG3	17:O2:265:ASN:CG	1.34	1.50
11:I2:846:ILE:HG22	17:O3:247:TRP:CH2	1.43	1.50
11:I2:1017:VAL:HG13	16:N3:410:MET:CG	1.41	1.50
11:I2:1039:ALA:CB	20:R3:170:LEU:CB	1.89	1.50
23:U2:83:VAL:CA	31:c4:557:HIS:CE1	1.94	1.50
28:Z2:524:VAL:HG13	30:b2:236:THR:CG2	1.02	1.50
2:A4:496:THR:HG21	3:A6:366:ALA:CB	1.42	1.49
2:A4:702:SER:C	3:A6:399:ASP:HB2	1.07	1.49
2:A4:770:GLY:CA	3:A6:469:PHE:CG	1.91	1.49
2:A4:1055:ARG:CD	6:D4:762:ARG:HB3	1.36	1.49
3:A5:1098:ARG:CZ	11:I5:29:GLN:HG2	1.42	1.49
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CB	1.41	1.49
8:F1:1262:HIS:CE1	17:O2:259:ASP:CB	1.91	1.49
11:I2:1039:ALA:C	20:R3:170:LEU:HD21	1.32	1.49
23:U2:398:ILE:HD11	31:c4:535:VAL:CB	1.36	1.49
2:A2:968:SER:HA	6:D1:201:LEU:C	1.31	1.49
1:A3:1271:ILE:CB	3:A6:550:VAL:CB	1.85	1.49
2:A4:701:ILE:HG13	3:A6:466:ALA:CA	1.03	1.49
2:A4:770:GLY:C	3:A6:469:PHE:HD2	0.99	1.49
3:A5:175:GLU:CD	5:C2:733:LEU:HD11	1.31	1.49
3:A5:1365:VAL:CA	28:Z2:841:ALA:CB	1.87	1.49
8:F2:1137:GLN:CB	17:O4:251:ILE:HD13	1.38	1.49
11:I1:919:ALA:HB2	16:N1:389:PHE:C	1.35	1.49
11:I2:891:LEU:CD1	16:N3:393:ILE:HD12	1.40	1.49
18:P1:276:SER:CB	18:P4:322:LYS:HE3	1.39	1.49
22:T1:755:GLU:HB2	31:c5:58:ARG:CZ	1.40	1.49
23:U2:435:PHE:CZ	31:c4:535:VAL:HG22	1.45	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:742:GLU:CB	30:b3:135:ASN:HD22	1.22	1.49
2:A2:1138:GLU:CB	3:A5:147:LEU:HD13	1.39	1.49
1:A3:1192:GLN:CB	3:A6:645:PHE:HD2	1.21	1.49
2:A4:986:THR:HG21	6:D3:504:LYS:CG	1.04	1.49
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CB	1.30	1.49
23:U1:38:ILE:CG1	31:c2:473:THR:HB	1.02	1.49
2:A4:611:ILE:HG22	3:A6:508:LEU:CB	1.39	1.49
2:A4:684:VAL:HG21	3:A6:395:MET:SD	1.52	1.49
11:I1:952:LEU:HD12	16:N1:400:LEU:CD2	1.01	1.49
11:I1:967:SER:CB	15:M1:625:GLY:HA2	1.04	1.49
11:I2:961:ARG:HH22	16:N3:388:LYS:C	1.15	1.49
11:I2:1039:ALA:HB1	20:R3:170:LEU:CB	1.40	1.49
22:T1:752:ALA:HA	31:c5:58:ARG:CD	1.40	1.49
28:Z1:742:GLU:CB	30:b1:135:ASN:HD22	1.22	1.49
28:Z2:742:GLU:CB	30:b2:135:ASN:HD22	1.22	1.49
2:A4:496:THR:CG2	3:A6:366:ALA:CB	1.88	1.49
2:A4:983:LEU:HD22	6:D3:497:PHE:CZ	1.46	1.49
11:I1:962:ILE:CD1	15:M1:596:ILE:HG21	1.36	1.49
11:I1:1024:PHE:CB	16:N1:406:HIS:HB2	1.40	1.49
11:I2:1109:LEU:HG	16:N3:438:LEU:CD2	1.02	1.49
11:I3:1277:LEU:CG	26:X1:522:MET:HG3	1.41	1.49
22:T1:755:GLU:CA	31:c5:58:ARG:NH2	1.75	1.49
23:U2:400:ASN:HD22	31:c4:550:LYS:CE	1.26	1.49
28:Z4:524:VAL:HG13	30:b4:236:THR:CG2	1.02	1.49
1:A3:1201:ARG:CA	3:A6:546:ASN:HD21	1.26	1.48
1:A3:1285:LEU:N	3:A6:581:LYS:HZ3	1.01	1.48
23:U1:401:PRO:HB3	31:c2:551:LEU:C	1.33	1.48
26:X2:192:LEU:HG	34:i:443:THR:CG2	1.05	1.48
28:Z1:524:VAL:HG13	30:b1:236:THR:CG2	1.02	1.48
28:Z3:401:THR:CB	30:b3:253:SER:C	1.82	1.48
2:A2:989:MSE:CE	6:D1:240:ASP:CA	1.88	1.48
1:A3:1204:TRP:CB	2:A4:731:ILE:HG23	1.36	1.48
1:A3:1321:MET:CE	3:A6:571:ARG:NH2	1.72	1.48
2:A4:806:PHE:CE2	3:A6:395:MET:HE1	1.48	1.48
2:A4:909:LYS:CG	6:D3:552:TYR:CD2	1.94	1.48
2:A4:949:PHE:HB3	4:B6:348:PRO:CD	1.38	1.48
2:A4:975:GLU:C	6:D3:496:LEU:HA	1.33	1.48
11:I2:900:ARG:N	17:O3:232:LYS:CG	1.75	1.48
11:I2:952:LEU:CD1	17:O3:250:LEU:HD11	1.36	1.48
11:I3:1278:ALA:N	26:X1:519:ILE:HG22	1.21	1.48
26:X2:286:SER:O	34:i:492:TRP:CE2	1.65	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1054:SER:HA	6:D3:809:ALA:C	1.34	1.48
2:A4:642:ARG:HG2	3:A6:501:VAL:CG1	1.41	1.48
2:A4:702:SER:CB	3:A6:379:VAL:CG1	1.87	1.48
2:A4:765:GLU:HB2	3:A6:559:PHE:CZ	1.45	1.48
2:A4:824:ASN:C	3:A6:138:LEU:HD12	1.10	1.48
3:A6:1406:GLY:HA3	26:X4:744:MET:CB	1.43	1.48
8:F2:1137:GLN:HB2	17:O4:251:ILE:CD1	1.42	1.48
11:I2:917:TYR:CD2	15:M3:587:GLU:O	1.64	1.48
23:U1:26:GLN:CB	31:c2:562:LEU:HB2	1.15	1.48
23:U1:431:ILE:CG1	31:c2:469:SER:N	1.73	1.48
1:A3:1271:ILE:HB	3:A6:550:VAL:CB	1.00	1.48
1:A3:1278:PRO:HB2	3:A6:624:ASP:CB	1.44	1.48
1:A3:1279:ILE:HA	3:A6:625:LEU:CA	1.19	1.48
2:A4:879:LEU:HD12	6:D3:564:ASN:CG	1.32	1.48
17:O3:148:ARG:CZ	18:P3:325:ILE:HG22	1.41	1.48
18:P1:276:SER:HB2	18:P4:322:LYS:CE	1.01	1.48
22:T1:752:ALA:CA	31:c5:58:ARG:NE	1.77	1.48
24:V1:287:ASN:OD1	31:c1:11:TYR:CD1	1.64	1.48
2:A4:864:ARG:HB2	6:D3:607:PRO:CD	1.44	1.48
3:A6:1370:ALA:H	28:Z4:874:ASN:CB	1.25	1.48
11:I1:880:MET:CB	17:O1:250:LEU:CB	1.88	1.48
11:I1:883:ALA:CA	17:O1:246:LEU:HB2	1.17	1.48
11:I1:987:GLY:N	15:M1:613:ASP:H	1.02	1.48
11:I1:1018:LYS:CE	16:N1:413:VAL:HA	1.03	1.48
11:I1:1109:LEU:HD13	17:O1:290:TYR:CZ	1.42	1.48
11:I2:900:ARG:CA	17:O3:232:LYS:CG	1.90	1.48
23:U1:399:ILE:CG1	31:c2:556:GLN:HE22	1.24	1.48
23:U2:25:GLU:HB2	31:c4:486:VAL:CG1	1.02	1.48
23:U2:83:VAL:N	31:c4:557:HIS:NE2	1.60	1.48
28:Z4:742:GLU:CB	30:b4:135:ASN:HD22	1.22	1.48
2:A4:776:MET:SD	3:A6:525:THR:HA	1.54	1.47
11:I1:884:LEU:HG	17:O1:246:LEU:CD2	1.02	1.47
11:I1:1018:LYS:HE3	16:N1:413:VAL:CA	1.28	1.47
11:I2:966:TRP:HZ3	20:R3:167:GLN:CG	1.27	1.47
11:I2:981:VAL:HB	20:R3:147:LEU:CD2	1.38	1.47
11:I2:1186:PRO:CG	17:O4:225:GLN:NE2	1.70	1.47
11:I4:1270:LYS:CE	26:X3:527:VAL:CG1	1.90	1.47
17:O3:155:VAL:HG23	18:P3:321:ILE:CD1	1.42	1.47
23:U1:18:THR:HG22	31:c2:473:THR:CG2	1.38	1.47
2:A4:642:ARG:HG2	3:A6:501:VAL:CB	1.37	1.47
2:A4:710:LEU:C	3:A6:462:LEU:HD22	1.17	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:770:GLY:HA3	3:A6:469:PHE:CG	1.49	1.47
11:I1:883:ALA:CB	17:O1:246:LEU:CB	1.90	1.47
23:U2:394:ILE:CD1	31:c4:539:ILE:HG12	1.41	1.47
26:X2:197:VAL:HB	34:i:366:PHE:CG	1.46	1.47
26:X2:336:LEU:CD1	34:i:478:PRO:HD3	1.05	1.47
1:A3:1021:LEU:HD13	6:D3:816:VAL:CA	1.43	1.47
1:A3:1226:LEU:C	3:A6:551:GLN:HG3	1.34	1.47
11:I2:989:GLY:HA3	15:M3:614:ASP:CG	1.08	1.47
11:I3:1277:LEU:HG	26:X1:522:MET:CG	1.42	1.47
22:T1:824:VAL:CG2	31:c5:55:VAL:HA	1.41	1.47
23:U3:278:GLN:NE2	25:W4:189:SER:HA	1.25	1.47
28:Z3:410:ASN:CB	30:b3:251:ILE:HD12	1.00	1.47
28:Z3:524:VAL:CG1	30:b3:236:THR:CG2	1.75	1.47
2:A4:648:TYR:HD2	3:A6:503:GLN:C	1.13	1.47
2:A4:893:LEU:CD1	3:A6:175:GLU:HG3	0.99	1.47
3:A5:153:ILE:HD13	5:C2:739:MET:SD	1.54	1.47
3:A5:1026:PRO:CB	11:I5:73:TYR:HD1	1.11	1.47
11:I2:1024:PHE:HB2	16:N3:406:HIS:CG	1.47	1.47
26:X2:329:ARG:CD	34:i:476:LEU:HG	1.38	1.47
28:Z1:410:ASN:CB	30:b1:251:ILE:HD12	1.00	1.47
28:Z2:401:THR:CB	30:b2:253:SER:C	1.82	1.47
2:A2:780:GLU:HB2	6:D1:677:GLN:C	1.39	1.47
2:A2:986:THR:CG2	6:D1:504:LYS:HD3	1.01	1.47
2:A2:1160:GLN:CD	3:A5:165:PHE:HA	1.39	1.47
2:A4:822:ILE:CG2	3:A6:526:ILE:CD1	1.84	1.47
3:A5:1395:LYS:HG2	28:Z2:873:LEU:N	1.24	1.47
11:I1:952:LEU:CD1	16:N1:400:LEU:CD2	1.83	1.47
23:U1:434:THR:CG2	31:c2:479:ILE:CG2	1.91	1.47
26:X2:367:SER:C	34:i:441:LEU:HD23	1.09	1.47
1:A1:1221:ILE:HG23	2:A2:642:ARG:C	1.39	1.46
1:A3:1163:TYR:CD1	3:A6:648:TYR:CA	1.97	1.46
1:A3:1250:PRO:HG2	3:A6:635:ARG:CA	1.24	1.46
2:A4:713:ILE:CG1	3:A6:462:LEU:HD12	1.45	1.46
2:A4:720:LEU:CB	3:A6:494:PRO:HA	1.01	1.46
3:A5:1026:PRO:CG	11:I5:73:TYR:CD1	1.93	1.46
11:I2:900:ARG:HA	17:O3:232:LYS:CD	1.43	1.46
11:I2:1109:LEU:HD13	17:O3:290:TYR:CD2	1.47	1.46
22:T1:755:GLU:HB2	31:c5:58:ARG:NH2	1.22	1.46
1:A1:870:HIS:HB3	6:D3:279:HIS:ND1	1.28	1.46
2:A2:982:THR:HG21	6:D1:494:LEU:C	1.03	1.46
11:I1:1665:LEU:HG	11:I2:1667:GLN:CG	1.38	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:797:LEU:CD1	17:O3:245:GLU:HA	1.45	1.46
11:I2:1045:PHE:CE2	16:N3:434:LEU:CB	1.92	1.46
23:U1:202:LEU:HD13	31:c1:571:GLN:CD	1.06	1.46
26:X2:336:LEU:HD11	34:i:478:PRO:CD	1.44	1.46
1:A3:1228:TYR:CD1	3:A6:551:GLN:CA	1.94	1.46
2:A4:975:GLU:CB	6:D3:501:LEU:HD12	1.43	1.46
28:Z1:524:VAL:CG1	30:b1:236:THR:CG2	1.76	1.46
1:A3:1270:SER:HB3	3:A6:709:LYS:NZ	1.24	1.46
3:A5:1406:GLY:HA3	28:Z2:921:THR:CB	1.41	1.46
8:F1:1203:TRP:CH2	17:O2:248:SER:CA	1.89	1.46
11:I2:887:GLN:CD	16:N3:393:ILE:HA	1.23	1.46
11:I2:1039:ALA:CA	20:R3:170:LEU:CG	1.88	1.46
1:A3:1124:ARG:N	3:A6:599:ARG:CZ	1.79	1.46
2:A4:701:ILE:CG1	3:A6:466:ALA:CA	1.90	1.46
2:A4:772:SER:HB2	3:A6:477:PHE:CD1	1.48	1.46
3:A5:172:PRO:CD	5:C2:730:HIS:CG	1.99	1.46
8:F1:158:PRO:HG3	11:I1:1207:PRO:CD	1.43	1.46
11:I2:896:PRO:CA	17:O3:233:THR:CA	1.94	1.46
11:I2:896:PRO:HA	17:O3:233:THR:N	1.28	1.46
11:I2:957:SER:HB2	20:R3:168:LEU:CA	0.99	1.46
23:U3:278:GLN:HG3	25:W4:189:SER:CB	1.44	1.46
2:A2:823:VAL:CA	2:A2:856:PHE:HE1	1.20	1.45
1:A3:1225:PRO:HD2	3:A6:548:LEU:CD1	1.40	1.45
1:A3:1249:PHE:CD2	3:A6:633:MET:HG3	1.46	1.45
2:A4:616:ALA:HB1	3:A6:109:ASP:CG	1.04	1.45
2:A4:796:GLN:H	3:A6:249:SER:CB	1.24	1.45
3:A5:993:ASN:C	11:I5:57:GLU:HG2	1.02	1.45
11:I1:846:ILE:HD12	15:M1:594:LYS:CD	1.42	1.45
11:I1:1114:VAL:CG1	16:N1:432:TYR:CD2	1.83	1.45
28:Z4:401:THR:CB	30:b4:253:SER:C	1.82	1.45
28:Z4:410:ASN:CB	30:b4:251:ILE:HD12	1.00	1.45
1:A3:1163:TYR:CD1	3:A6:648:TYR:HA	1.52	1.45
2:A4:760:LEU:CD1	3:A6:388:GLU:HG2	1.00	1.45
8:F1:1203:TRP:CH2	17:O2:248:SER:HA	0.93	1.45
11:I1:978:LYS:NZ	20:R1:155:GLU:N	1.64	1.45
22:T1:752:ALA:CB	31:c5:58:ARG:HD3	1.42	1.45
26:X2:329:ARG:NH2	34:i:475:ILE:HG12	1.22	1.45
1:A1:1204:TRP:CZ2	2:A2:676:LEU:HD12	1.49	1.45
2:A4:876:ARG:HD2	6:D3:558:LYS:CA	0.99	1.45
2:A4:975:GLU:HB3	6:D3:501:LEU:CG	1.34	1.45
11:I1:1066:LEU:N	16:N1:430:ARG:HG2	1.16	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V1:287:ASN:HA	31:c1:11:TYR:CZ	1.50	1.45
1:A1:1204:TRP:CH2	2:A2:757:LEU:HD22	1.47	1.45
3:A5:234:LEU:HD23	5:C2:738:ASP:C	1.42	1.45
11:I1:1035:GLN:C	16:N1:441:PHE:CZ	1.94	1.45
11:I1:1052:LEU:CB	16:N1:438:LEU:CD1	1.78	1.45
11:I2:942:HIS:CB	17:O3:259:ASP:C	1.89	1.45
28:Z2:551:THR:HG22	30:b2:233:TRP:CZ3	0.92	1.45
1:A3:1248:ILE:CD1	3:A6:587:VAL:CA	1.95	1.45
1:A3:1325:MET:HE2	3:A6:126:ARG:NE	1.25	1.45
2:A4:770:GLY:CA	3:A6:469:PHE:HB2	1.45	1.45
2:A4:806:PHE:CB	3:A6:382:SER:OG	1.65	1.45
2:A4:854:VAL:HG22	3:A6:172:PRO:CA	1.00	1.45
11:I3:1277:LEU:HD11	26:X1:511:TYR:CE2	1.50	1.45
26:X2:333:GLU:CD	34:i:475:ILE:HB	1.06	1.45
26:X2:363:TYR:CG	34:i:419:THR:HG22	1.51	1.45
28:Z4:524:VAL:CG1	30:b4:236:THR:CG2	1.76	1.45
1:A3:1242:THR:CG2	3:A6:587:VAL:HB	1.47	1.44
2:A4:925:LYS:CE	3:A6:233:THR:HA	1.45	1.44
3:A5:1026:PRO:HD3	11:I5:102:ILE:CD1	1.44	1.44
3:A6:520:GLU:CG	6:D3:639:LEU:HD12	1.43	1.44
11:I1:883:ALA:CB	17:O1:243:LEU:O	1.66	1.44
11:I1:955:LYS:HE3	16:N1:397:GLU:C	1.42	1.44
11:I1:1021:ILE:HD11	16:N1:410:MET:CG	1.41	1.44
11:I2:989:GLY:CA	15:M3:614:ASP:CG	1.90	1.44
26:X2:197:VAL:CB	34:i:366:PHE:CD2	1.91	1.44
28:Z1:410:ASN:ND2	30:b1:252:ALA:HB2	1.33	1.44
28:Z2:528:ILE:CG1	30:b2:210:ARG:NH1	1.79	1.44
1:A3:1233:GLN:CA	3:A6:578:ILE:HB	1.44	1.44
1:A3:1241:ARG:NH1	3:A6:593:ALA:CA	1.78	1.44
2:A4:721:ARG:C	3:A6:572:ARG:NH2	1.74	1.44
6:D5:243:LYS:CB	31:c3:470:ARG:NH2	1.77	1.44
11:I1:924:ILE:CG1	15:M1:592:LEU:O	1.66	1.44
11:I2:950:LEU:CD1	16:N3:410:MET:CB	1.95	1.44
22:T1:736:LEU:N	31:c5:18:SER:HB3	1.18	1.44
23:U1:38:ILE:HG23	31:c2:473:THR:CG2	1.48	1.44
23:U2:396:LEU:CD1	31:c4:548:VAL:O	1.65	1.44
23:U2:426:TYR:HA	31:c4:463:HIS:ND1	1.23	1.44
26:X2:297:LYS:CB	34:i:446:LYS:HE2	1.43	1.44
28:Z2:410:ASN:CB	30:b2:251:ILE:HD12	1.00	1.44
1:A1:1224:PRO:CD	2:A2:731:ILE:HD13	1.46	1.44
1:A3:1224:PRO:HB3	2:A4:731:ILE:CD1	0.97	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:642:ARG:C	3:A6:501:VAL:HG12	1.38	1.44
2:A4:967:GLU:O	6:D3:202:GLN:CB	1.64	1.44
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CA	1.16	1.44
6:D5:243:LYS:CB	31:c3:470:ARG:HH22	1.24	1.44
11:I1:954:GLU:CB	16:N1:403:VAL:N	1.75	1.44
11:I1:1662:ARG:HD3	11:I2:1603:ARG:NH1	1.12	1.44
22:T1:741:ASP:CG	31:c5:24:GLN:CB	1.89	1.44
23:U2:38:ILE:HA	31:c4:559:ILE:CG2	1.21	1.44
26:X2:317:PHE:HB3	34:i:400:LYS:NZ	1.30	1.44
26:X2:365:ILE:CG2	34:i:424:LEU:CD1	1.88	1.44
1:A1:870:HIS:HB3	6:D3:279:HIS:CG	1.51	1.44
1:A3:1098:ARG:HB3	11:I2:1414:CYS:SG	1.56	1.44
2:A4:775:LEU:CB	3:A6:489:LEU:HD12	1.47	1.44
11:I1:841:PHE:CZ	17:O1:243:LEU:HD11	1.51	1.44
11:I1:916:ALA:CB	15:M1:586:ASP:HA	1.46	1.44
11:I1:1021:ILE:CG1	16:N1:410:MET:HB2	1.45	1.44
11:I2:922:ASP:CB	20:R3:163:LEU:HD13	1.46	1.44
11:I2:950:LEU:CD1	16:N3:410:MET:SD	2.02	1.44
11:I3:1277:LEU:CD1	26:X1:522:MET:HG3	1.47	1.44
26:X2:283:ASP:CG	34:i:479:THR:HG21	1.38	1.44
26:X2:333:GLU:CG	34:i:475:ILE:HB	1.47	1.44
2:A4:899:THR:N	3:A6:178:GLY:HA3	1.23	1.44
3:A5:1374:ALA:HB3	28:Z2:824:PHE:N	1.22	1.44
11:I1:1108:PRO:CG	16:N1:443:GLU:CB	1.96	1.44
11:I2:894:VAL:CG1	17:O3:237:PRO:C	1.91	1.44
28:Z3:551:THR:HG22	30:b3:233:TRP:CZ3	0.92	1.44
1:A3:1196:GLU:C	3:A6:609:GLU:HA	1.27	1.43
2:A4:543:GLY:C	3:A6:365:MET:N	1.74	1.43
2:A4:791:ALA:H	3:A6:187:THR:CG2	1.26	1.43
11:I1:1662:ARG:CD	11:I2:1603:ARG:HH12	1.31	1.43
11:I2:962:ILE:HG21	20:R3:166:LEU:CB	0.98	1.43
11:I2:980:ILE:CB	15:M3:618:GLN:HA	1.23	1.43
26:X2:187:THR:CG2	34:i:444:GLU:CB	1.92	1.43
28:Z3:411:LEU:N	30:b3:251:ILE:HD13	1.11	1.43
2:A2:826:ASN:CG	6:D1:633:LYS:CB	1.90	1.43
2:A4:680:LEU:CD2	3:A6:470:ARG:HH21	1.26	1.43
2:A4:691:LYS:CB	3:A6:316:ARG:NE	1.78	1.43
2:A4:893:LEU:HD11	3:A6:175:GLU:CG	1.41	1.43
2:A4:983:LEU:CB	6:D3:528:PHE:CZ	1.96	1.43
3:A5:1029:ILE:HG23	11:I5:69:GLY:C	1.43	1.43
3:A5:1094:ILE:CG2	11:I5:4:LEU:HB2	0.98	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1374:ALA:HB2	28:Z2:823:ALA:C	1.39	1.43
11:I2:942:HIS:HB3	17:O3:259:ASP:CG	1.01	1.43
1:A3:1240:HIS:CE1	3:A6:118:SER:CB	1.97	1.43
2:A4:90:GLN:CD	3:A6:427:MET:CA	1.79	1.43
2:A4:769:GLU:C	3:A6:528:ILE:HG21	1.43	1.43
8:F1:1137:GLN:HG2	17:O2:249:ARG:N	1.34	1.43
11:I2:981:VAL:N	20:R3:147:LEU:CD1	1.78	1.43
11:I3:1276:GLN:NE2	26:X1:535:ALA:C	1.73	1.43
17:O3:155:VAL:CG2	18:P3:321:ILE:HD13	1.46	1.43
21:S3:686:ALA:HB2	21:S4:1153:GLN:CB	1.47	1.43
23:U1:21:GLU:HB2	31:c2:472:GLU:CA	1.14	1.43
28:Z2:561:GLN:HB2	30:b2:236:THR:N	1.28	1.43
2:A2:980:ARG:HH21	6:D1:503:LEU:CB	1.29	1.43
1:A3:1241:ARG:NH1	3:A6:593:ALA:HA	1.30	1.43
1:A3:1248:ILE:HG13	3:A6:587:VAL:CG1	0.97	1.43
1:A3:1249:PHE:CD1	3:A6:584:GLY:CA	1.97	1.43
1:A3:1274:ASP:CB	3:A6:556:PRO:O	1.64	1.43
3:A5:1029:ILE:H	11:I5:67:LYS:C	1.22	1.43
11:I1:956:ILE:CG2	20:R1:166:LEU:HB2	1.45	1.43
11:I1:976:ARG:NH1	15:M1:622:VAL:CG1	1.78	1.43
11:I2:948:ALA:HB1	17:O3:253:LEU:CA	1.45	1.43
11:I2:962:ILE:HG23	20:R3:166:LEU:C	1.17	1.43
21:S1:677:TYR:C	21:S2:1127:GLN:HB3	1.39	1.43
23:U1:172:LYS:CD	31:c1:506:HIS:HA	0.97	1.43
28:Z4:551:THR:HG22	30:b4:233:TRP:CZ3	0.92	1.43
2:A4:772:SER:HA	3:A6:489:LEU:CG	1.20	1.43
2:A4:879:LEU:N	6:D3:567:LEU:HD12	1.31	1.43
11:I1:1017:VAL:N	16:N1:412:ASN:H	1.03	1.43
11:I1:1540:LYS:CE	11:I2:1739:GLU:HB3	1.48	1.43
11:I3:777:SER:CB	29:a2:40[A]:GLU:HG2	1.48	1.43
17:O3:148:ARG:NH1	18:P3:325:ILE:HG22	1.25	1.43
23:U2:391:HIS:CD2	31:c4:477:GLU:CA	1.87	1.43
26:X2:300:SER:CB	34:i:335:HIS:HB2	1.39	1.43
28:Z1:551:THR:HG22	30:b1:233:TRP:CZ3	0.92	1.43
1:A3:1242:THR:HG21	3:A6:587:VAL:CB	1.15	1.42
2:A4:555:VAL:CG2	3:A6:437:ARG:NH2	1.79	1.42
2:A4:854:VAL:HG13	3:A6:173:ASN:N	1.21	1.42
2:A4:946:LYS:CB	4:B6:351:GLU:H	1.29	1.42
11:I1:951:LYS:CG	16:N1:400:LEU:O	1.66	1.42
11:I1:1066:LEU:CB	16:N1:430:ARG:HD3	1.46	1.42
11:I2:981:VAL:CB	20:R3:147:LEU:HD21	1.46	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:655:ASN:H	21:S2:1156:ILE:C	1.26	1.42
23:U1:24:ILE:CG2	31:c2:471:LEU:HD21	1.32	1.42
23:U2:78:VAL:HG12	31:c4:553:LEU:CD1	1.48	1.42
28:Z1:411:LEU:N	30:b1:251:ILE:HD13	1.11	1.42
2:A2:973:GLU:CG	6:D1:192:TYR:CZ	1.95	1.42
2:A4:549:ALA:CB	3:A6:365:MET:HE1	1.34	1.42
2:A4:720:LEU:CA	3:A6:495:ASP:N	1.69	1.42
11:I1:884:LEU:HD12	16:N1:400:LEU:CD1	1.47	1.42
11:I2:846:ILE:HG22	17:O3:247:TRP:CZ2	1.54	1.42
11:I2:948:ALA:HB2	17:O3:256:TYR:CB	1.49	1.42
28:Z3:528:ILE:CG1	30:b3:210:ARG:NH1	1.79	1.42
1:A3:1259:CYS:SG	3:A6:624:ASP:CA	2.06	1.42
1:A3:1260:ALA:CB	3:A6:719:ARG:HH21	1.32	1.42
1:A3:1389:SER:HB2	3:A6:224:PRO:CA	1.36	1.42
1:A3:1389:SER:CB	3:A6:224:PRO:HA	1.32	1.42
2:A4:793:SER:HB3	3:A6:146:LYS:CD	1.48	1.42
2:A4:825:ARG:NH2	3:A6:564:ASN:HD22	1.13	1.42
3:A5:1005:PHE:CE1	11:I5:67:LYS:HE3	1.53	1.42
4:B5:344:ALA:HB2	5:C2:740:ARG:NH2	1.16	1.42
11:I1:984:GLU:CG	15:M1:614:ASP:O	1.68	1.42
11:I1:1042:LEU:CA	15:M1:616:LEU:HD21	1.46	1.42
23:U1:431:ILE:HG13	31:c2:469:SER:N	1.17	1.42
2:A2:1138:GLU:CB	3:A5:147:LEU:CD1	1.93	1.42
1:A3:1261:TYR:CE1	3:A6:621:GLN:HB3	1.50	1.42
2:A4:611:ILE:CB	3:A6:508:LEU:CG	1.96	1.42
3:A6:520:GLU:CG	6:D3:681:ALA:HB2	1.46	1.42
3:A6:1368:GLN:CA	28:Z4:875:LEU:CA	1.95	1.42
11:I1:916:ALA:HB3	15:M1:586:ASP:CA	1.44	1.42
11:I1:962:ILE:CG2	20:R1:166:LEU:HG	0.96	1.42
11:I2:883:ALA:CB	17:O3:246:LEU:HB3	1.19	1.42
26:X2:201:ARG:HH12	34:i:420:TRP:NE1	1.11	1.42
1:A3:1224:PRO:CB	2:A4:731:ILE:CD1	1.82	1.42
1:A3:1240:HIS:ND1	3:A6:118:SER:HB3	1.33	1.42
2:A4:611:ILE:CB	3:A6:508:LEU:HG	1.47	1.42
2:A4:614:ALA:CB	3:A6:502:THR:HG23	1.47	1.42
2:A4:682:ARG:HH21	3:A6:105:GLY:N	0.99	1.42
2:A4:720:LEU:CD1	3:A6:510:TYR:CE1	1.89	1.42
2:A4:781:ARG:NH2	6:D3:633:LYS:CE	1.83	1.42
11:I1:849:LEU:HD13	17:O1:247:TRP:CE3	1.53	1.42
11:I1:927:HIS:CD2	15:M1:594:LYS:CA	2.03	1.42
11:I1:1021:ILE:HA	16:N1:406:HIS:ND1	1.31	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1029:LEU:CB	20:R1:171:ALA:O	1.68	1.42
11:I1:1104:LEU:HB3	16:N1:436:ALA:CB	1.50	1.42
11:I2:947:LEU:HG	16:N3:407:ALA:C	1.45	1.42
11:I2:1017:VAL:HG23	16:N3:411:GLN:CA	1.21	1.42
23:U2:35:PRO:CB	31:c4:531:TRP:CD1	2.02	1.42
26:X2:297:LYS:CB	34:i:446:LYS:CE	1.90	1.42
2:A4:825:ARG:HH22	3:A6:564:ASN:ND2	1.12	1.41
2:A4:886:PHE:CE1	3:A6:176:LEU:HG	1.53	1.41
8:F1:1137:GLN:CB	17:O2:248:SER:H	1.29	1.41
11:I1:1018:LYS:HE3	16:N1:413:VAL:C	1.44	1.41
11:I1:1669:ARG:N	11:I2:1664:PHE:CZ	1.80	1.41
11:I2:887:GLN:NE2	16:N3:393:ILE:CA	1.79	1.41
23:U2:404:VAL:CG1	31:c4:543:ALA:HB1	1.47	1.41
23:U2:413:ILE:N	31:c4:541:ARG:CB	1.80	1.41
26:X2:321:ALA:CB	34:i:84:ARG:NE	1.76	1.41
26:X2:336:LEU:CD1	34:i:478:PRO:CD	1.98	1.41
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:CE1	2.01	1.41
28:Z1:561:GLN:HB2	30:b1:236:THR:N	1.28	1.41
28:Z2:410:ASN:ND2	30:b2:252:ALA:HB2	1.32	1.41
1:A3:1237:LEU:CD2	3:A6:119:TRP:NE1	1.80	1.41
1:A3:1248:ILE:HG12	3:A6:587:VAL:CA	1.39	1.41
1:A3:1266:GLY:H	3:A6:716:ASN:ND2	1.14	1.41
2:A4:946:LYS:CA	4:B6:348:PRO:HG2	1.41	1.41
3:A5:232:LEU:HD21	5:C2:739:MET:N	1.22	1.41
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CA	1.50	1.41
11:I2:917:TYR:CD2	15:M3:591:ASP:N	1.76	1.41
11:I2:1034:ASP:OD2	15:M3:630:LEU:CB	1.66	1.41
11:I3:1276:GLN:NE2	26:X1:535:ALA:HA	1.27	1.41
26:X2:196:ASP:CA	34:i:438:LEU:C	1.93	1.41
28:Z4:561:GLN:HB2	30:b4:236:THR:N	1.28	1.41
1:A3:1277:TRP:HB3	3:A6:556:PRO:CG	1.49	1.41
2:A4:652:PRO:CB	3:A6:542:LEU:CD1	1.98	1.41
2:A4:682:ARG:NH2	3:A6:105:GLY:CA	1.79	1.41
2:A4:947:LYS:CE	3:A6:235:TYR:CE2	1.89	1.41
6:D7:531:LEU:N	11:I3:181:GLN:CB	1.79	1.41
8:F1:1267:ARG:CG	17:O2:265:ASN:OD1	1.64	1.41
17:O3:151:LEU:CD2	18:P3:325:ILE:CD1	1.98	1.41
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:CE1	2.01	1.41
1:A3:1271:ILE:HB	3:A6:550:VAL:CG1	1.49	1.41
1:A3:1325:MET:HE2	3:A6:126:ARG:CZ	1.47	1.41
2:A4:86:ASN:N	3:A6:394:LEU:N	1.63	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:702:SER:CB	3:A6:379:VAL:HG11	1.48	1.41
2:A4:878:LEU:CD2	6:D3:607:PRO:CB	1.89	1.41
11:I1:992:ILE:H	15:M1:608:LYS:CG	1.08	1.41
11:I2:1109:LEU:HD12	17:O3:286:ILE:CG2	1.51	1.41
11:I4:813:ILE:CD1	26:X3:496:THR:CG2	1.78	1.41
23:U1:16:SER:HA	31:c2:470:ARG:NE	1.14	1.41
23:U3:278:GLN:NE2	25:W4:189:SER:CA	1.79	1.41
26:X2:363:TYR:O	34:i:403:SER:CB	1.69	1.41
28:Z1:411:LEU:N	30:b1:251:ILE:CD1	1.84	1.41
2:A2:973:GLU:CD	6:D1:205:LEU:HD13	1.28	1.41
1:A3:1248:ILE:CD1	3:A6:587:VAL:HA	1.44	1.41
1:A3:1311:ARG:HE	3:A6:715:GLU:CD	1.29	1.41
2:A4:553:ASP:OD1	3:A6:434:PHE:CA	1.65	1.41
2:A4:855:THR:HG22	3:A6:168:ASP:C	1.45	1.41
2:A4:869:ALA:N	6:D3:570:VAL:HG13	1.17	1.41
11:I1:922:ASP:N	15:M1:592:LEU:HD23	1.35	1.41
11:I1:1109:LEU:CG	17:O1:290:TYR:HE2	1.34	1.41
11:I2:911:PRO:CB	15:M3:584:GLN:NE2	1.83	1.41
11:I2:945:LEU:CD1	17:O3:255:GLY:O	1.69	1.41
11:I2:983:LEU:CD2	15:M3:617:THR:CB	1.80	1.41
28:Z2:411:LEU:N	30:b2:251:ILE:CD1	1.84	1.41
28:Z4:411:LEU:N	30:b4:251:ILE:CD1	1.84	1.41
28:Z4:411:LEU:N	30:b4:251:ILE:HD13	1.11	1.41
1:A3:1021:LEU:CD1	6:D3:816:VAL:O	1.68	1.40
8:F1:1205:TRP:NE1	17:O2:251:ILE:HG23	1.29	1.40
11:I1:1020:ALA:CB	16:N1:405:ALA:O	1.65	1.40
11:I2:874:LEU:HA	17:O3:255:GLY:CA	1.49	1.40
11:I2:1110:SER:OG	16:N3:438:LEU:CG	1.63	1.40
23:U2:398:ILE:CA	31:c4:531:TRP:O	1.67	1.40
26:X2:363:TYR:CD1	34:i:419:THR:HG22	1.55	1.40
28:Z3:411:LEU:N	30:b3:251:ILE:CD1	1.84	1.40
2:A4:614:ALA:HB3	3:A6:502:THR:CG2	1.49	1.40
2:A4:796:GLN:N	3:A6:249:SER:CB	1.83	1.40
2:A4:986:THR:CG2	6:D3:504:LYS:CD	1.97	1.40
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB3	1.37	1.40
3:A5:1395:LYS:CA	28:Z2:873:LEU:CB	1.99	1.40
3:A6:1403:MSE:HE1	28:Z4:964:LEU:CA	1.49	1.40
11:I1:840:LEU:HG	17:O1:244:GLU:CG	1.41	1.40
11:I1:884:LEU:CD1	17:O1:246:LEU:HD21	1.52	1.40
11:I1:1109:LEU:H	16:N1:441:PHE:N	1.05	1.40
23:U2:25:GLU:C	31:c4:490:GLY:H	1.26	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:404:VAL:HG11	31:c4:543:ALA:CB	1.49	1.40
26:X2:311:LEU:HA	34:i:401:CYS:N	1.32	1.40
2:A2:1094:ILE:HD13	6:D2:759:GLN:NE2	1.17	1.40
2:A4:85:VAL:HG13	3:A6:405:PHE:CD1	1.57	1.40
2:A4:90:GLN:NE2	3:A6:427:MET:HG3	1.09	1.40
2:A4:711:VAL:HA	3:A6:490:PHE:CB	1.36	1.40
3:A5:1029:ILE:H	11:I5:68:ILE:N	1.04	1.40
8:F2:1049:GLN:NE2	17:O4:237:PRO:HB3	1.23	1.40
11:I1:879:VAL:CG1	17:O1:244:GLU:O	1.68	1.40
11:I2:950:LEU:HD21	16:N3:410:MET:CE	1.51	1.40
11:I2:961:ARG:NH2	16:N3:388:LYS:C	1.76	1.40
11:I3:1277:LEU:HD21	26:X1:513:PHE:CB	1.48	1.40
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:CE1	2.01	1.40
1:A1:1222:ALA:CB	2:A2:615:LEU:CD1	2.00	1.40
2:A2:870:HIS:CE1	6:D1:566:PHE:HA	1.06	1.40
1:A3:1233:GLN:CA	3:A6:578:ILE:CB	1.93	1.40
1:A3:1261:TYR:CD1	3:A6:621:GLN:CD	1.96	1.40
2:A4:1055:ARG:HD3	6:D4:762:ARG:CB	1.49	1.40
8:F1:1094:GLY:CA	17:O2:237:PRO:HA	1.51	1.40
11:I1:938:CYS:CB	15:M1:606:LEU:HD12	0.95	1.40
11:I1:1017:VAL:H	16:N1:412:ASN:N	1.09	1.40
11:I1:1051:LYS:HE3	17:O1:289:ASP:N	1.29	1.40
11:I2:942:HIS:HB2	17:O3:259:ASP:C	0.97	1.40
11:I2:1109:LEU:CB	17:O3:290:TYR:CE2	1.87	1.40
11:I3:1270:LYS:CE	26:X1:530:ARG:HG2	1.39	1.40
26:X2:283:ASP:HB2	34:i:479:THR:CB	1.49	1.40
26:X2:361:LEU:CD2	34:i:441:LEU:HD11	1.52	1.40
28:Z3:561:GLN:HB2	30:b3:236:THR:N	1.28	1.40
1:A1:1331:GLU:OE1	2:A2:857:LYS:CE	1.70	1.40
1:A3:1124:ARG:H	3:A6:599:ARG:CZ	1.34	1.40
1:A3:1201:ARG:CG	2:A4:728:LYS:O	1.65	1.40
1:A3:1277:TRP:O	3:A6:625:LEU:CD2	1.68	1.40
3:A6:1403:MSE:HG2	26:X4:742:ALA:CA	1.47	1.40
11:I1:833:PHE:HE2	17:O1:238:ALA:CA	1.14	1.40
11:I1:1039:ALA:H	20:R1:169:GLY:CA	1.08	1.40
11:I1:1604:ALA:CA	11:I2:1739:GLU:O	1.68	1.40
11:I2:900:ARG:HA	17:O3:232:LYS:CE	1.49	1.40
11:I2:981:VAL:CB	20:R3:147:LEU:CD2	1.96	1.40
11:I2:1109:LEU:HD13	17:O3:290:TYR:CE2	1.52	1.40
26:X2:197:VAL:CG2	34:i:442:SER:CA	1.84	1.40
27:Y4:41:ASP:HB3	29:a4:231[B]:HIS:NE2	1.35	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:410:ASN:CB	30:b4:251:ILE:CD1	1.85	1.40
28:Z4:528:ILE:CG1	30:b4:210:ARG:NH1	1.79	1.40
2:A2:980:ARG:NH2	6:D1:503:LEU:HB2	1.28	1.39
2:A2:982:THR:CG2	6:D1:494:LEU:C	1.94	1.39
2:A2:1154:PHE:CD2	3:A5:175:GLU:CD	1.97	1.39
1:A3:1254:LEU:HD12	3:A6:638:GLU:CG	1.02	1.39
1:A3:1285:LEU:HA	3:A6:581:LYS:CE	1.13	1.39
2:A4:536:ALA:H	3:A6:368:SER:C	1.12	1.39
2:A4:729:SER:HB3	3:A6:678:LEU:CD2	0.93	1.39
2:A4:897:ASN:N	3:A6:165:PHE:HA	1.12	1.39
2:A4:983:LEU:CD1	6:D3:553:PHE:O	1.66	1.39
3:A6:520:GLU:CB	6:D3:635:ALA:HB1	1.52	1.39
3:A6:1406:GLY:CA	26:X4:744:MET:CB	2.00	1.39
11:I1:916:ALA:H	15:M1:586:ASP:N	1.16	1.39
11:I2:898:VAL:CG2	17:O3:237:PRO:HD3	1.48	1.39
22:T1:825:ASP:HB3	31:c5:23:ARG:CD	1.51	1.39
23:U2:19:LEU:C	31:c4:483:ASP:HB2	1.47	1.39
23:U2:41:GLU:HB3	31:c4:563:ARG:NH1	1.14	1.39
24:V1:346:THR:CG2	31:c1:526:GLU:HB3	1.50	1.39
26:X2:283:ASP:CA	34:i:479:THR:HG23	0.94	1.39
2:A2:1149:THR:HA	5:C2:730:HIS:C	1.21	1.39
2:A4:721:ARG:N	3:A6:493:ALA:C	1.77	1.39
2:A4:852:ASP:CB	3:A6:154:GLY:O	1.69	1.39
2:A4:971:ALA:N	6:D3:202:GLN:HG2	1.25	1.39
3:A6:484:PRO:CD	6:D3:672:GLU:HG2	1.52	1.39
9:G1:263:MET:CA	16:N2:411:GLN:HB2	1.51	1.39
11:I1:837:MET:SD	17:O1:242:ARG:CA	2.10	1.39
11:I1:937:TYR:HB3	17:O1:258:GLU:CA	1.51	1.39
11:I1:981:VAL:CG1	20:R1:151:LYS:CB	2.00	1.39
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CZ	1.40	1.39
11:I2:948:ALA:HB1	17:O3:253:LEU:C	1.42	1.39
11:I2:951:LYS:CE	16:N3:400:LEU:O	1.69	1.39
11:I2:1045:PHE:CZ	16:N3:434:LEU:HB3	1.56	1.39
28:Z1:526:ARG:CB	30:b1:206:ASN:CG	1.95	1.39
1:A1:1197:ALA:HB3	2:A2:728:LYS:NZ	1.24	1.39
1:A3:1274:ASP:O	3:A6:556:PRO:CD	1.70	1.39
2:A4:825:ARG:N	3:A6:138:LEU:HD12	1.30	1.39
2:A4:877:ALA:CA	6:D3:563:GLU:CA	1.89	1.39
3:A5:1029:ILE:CG2	11:I5:70:GLU:N	1.85	1.39
5:C1:732:LYS:NZ	11:I1:1225:LYS:HD2	1.20	1.39
11:I1:1056:PRO:HA	17:O1:278:GLU:CB	1.09	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1108:PRO:CG	16:N1:443:GLU:HB3	1.51	1.39
11:I1:1669:ARG:NH1	11:I2:1642:LEU:HD13	1.32	1.39
11:I2:956:ILE:O	20:R3:166:LEU:CD1	1.67	1.39
11:I2:1059:PRO:HB2	17:O3:274:GLY:C	1.44	1.39
11:I4:813:ILE:CD1	26:X3:496:THR:HG21	0.94	1.39
22:T1:736:LEU:CA	31:c5:19:THR:HG23	1.49	1.39
23:U2:394:ILE:CG2	31:c4:535:VAL:CG2	1.98	1.39
23:U2:430:PRO:HB3	31:c4:458:LYS:CA	0.97	1.39
26:X2:305:GLU:HG3	34:i:325:VAL:CG1	1.53	1.39
1:A1:870:HIS:CB	6:D3:279:HIS:C	1.96	1.39
2:A2:1154:PHE:CD2	3:A5:175:GLU:OE1	1.74	1.39
1:A3:1228:TYR:HD1	3:A6:551:GLN:CB	1.33	1.39
2:A4:642:ARG:CG	3:A6:501:VAL:HB	1.50	1.39
2:A4:691:LYS:HB3	3:A6:316:ARG:NE	1.08	1.39
2:A4:781:ARG:NH2	6:D3:633:LYS:HE2	1.30	1.39
2:A4:925:LYS:CD	3:A6:233:THR:HA	1.48	1.39
11:I1:881:ILE:C	17:O1:249:ARG:HD3	1.13	1.39
11:I1:924:ILE:HD13	15:M1:595:MET:CG	1.48	1.39
11:I1:962:ILE:HG21	20:R1:166:LEU:CG	0.92	1.39
11:I1:976:ARG:HH12	15:M1:622:VAL:CG1	1.32	1.39
11:I4:1282:PHE:CE1	29:a3:24[B]:GLY:N	1.88	1.39
17:O3:148:ARG:CZ	18:P3:325:ILE:CG2	2.01	1.39
23:U1:399:ILE:HG13	31:c2:556:GLN:NE2	1.35	1.39
23:U2:83:VAL:CB	31:c4:557:HIS:HE1	1.35	1.39
23:U2:404:VAL:HG12	31:c4:543:ALA:C	1.47	1.39
2:A2:870:HIS:CE1	6:D1:566:PHE:CA	1.78	1.39
2:A2:973:GLU:HG2	6:D1:192:TYR:CD2	1.58	1.39
1:A3:1230:TYR:CE1	3:A6:610:THR:CA	1.76	1.39
2:A4:791:ALA:N	3:A6:187:THR:HG22	1.36	1.39
2:A4:859:GLN:CG	3:A6:176:LEU:HD21	1.50	1.39
11:I1:884:LEU:CG	17:O1:246:LEU:CD2	1.81	1.39
11:I1:967:SER:HB2	15:M1:625:GLY:CA	1.53	1.39
11:I1:987:GLY:N	15:M1:613:ASP:N	1.66	1.39
11:I1:1013:GLU:CA	16:N1:411:GLN:OE1	1.70	1.39
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD2	1.46	1.39
2:A2:1141:GLU:O	3:A5:129:ASN:CA	1.69	1.38
1:A3:1116:HIS:HB3	3:A6:596:ARG:NH2	1.30	1.38
1:A3:1201:ARG:HB3	2:A4:735:ALA:N	1.09	1.38
2:A4:720:LEU:CD2	3:A6:494:PRO:CA	2.00	1.38
2:A4:737:PRO:CB	3:A6:93:ASP:OD2	1.70	1.38
2:A4:771:ILE:HD11	3:A6:476:PHE:CE1	1.55	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:799:ASP:OD1	3:A6:250:PHE:CE2	1.75	1.38
2:A4:896:ALA:C	3:A6:178:GLY:HA2	1.43	1.38
3:A5:993:ASN:C	11:I5:57:GLU:CG	1.93	1.38
3:A6:444:ARG:CG	6:D3:737:PHE:CZ	2.04	1.38
3:A6:1409:MSE:C	26:X4:686:ASP:CB	1.93	1.38
5:C3:732:LYS:NZ	11:I2:1225:LYS:HD2	1.35	1.38
9:G1:251:TYR:C	17:O2:258:GLU:OE2	1.63	1.38
11:I1:976:ARG:N	20:R1:149:ARG:HD3	1.38	1.38
11:I2:896:PRO:HA	17:O3:232:LYS:C	1.46	1.38
11:I2:1029:LEU:HD11	16:N3:433:GLU:CG	1.50	1.38
26:X2:369:GLU:CD	34:i:428:LEU:HD23	1.47	1.38
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:CE1	2.01	1.38
28:Z2:526:ARG:CB	30:b2:206:ASN:CG	1.95	1.38
2:A4:677:ALA:CB	3:A6:98:LEU:CG	1.88	1.38
2:A4:859:GLN:CB	3:A6:134:VAL:HG23	1.53	1.38
2:A4:876:ARG:HD2	6:D3:558:LYS:C	1.46	1.38
2:A4:908:LEU:CA	6:D3:552:TYR:HE1	1.35	1.38
11:I1:846:ILE:C	15:M1:594:LYS:CD	1.77	1.38
11:I1:919:ALA:C	15:M1:592:LEU:HD22	1.42	1.38
11:I2:959:SER:N	20:R3:166:LEU:CD1	1.67	1.38
11:I4:819:MET:CE	27:Y3:178:PHE:CE1	2.04	1.38
23:U1:172:LYS:CD	31:c1:506:HIS:CA	1.81	1.38
1:A1:831:ALA:O	6:D3:298:ASN:CB	1.71	1.38
2:A2:864:ARG:NH1	6:D1:610:ASN:ND2	1.71	1.38
1:A3:1282:PHE:CB	3:A6:625:LEU:O	1.69	1.38
2:A4:648:TYR:CD2	3:A6:503:GLN:C	2.00	1.38
2:A4:770:GLY:C	3:A6:469:PHE:CD2	1.87	1.38
2:A4:821:ALA:HB2	3:A6:146:LYS:C	1.46	1.38
2:A4:854:VAL:HG12	3:A6:174:PRO:N	1.35	1.38
2:A4:865:ALA:CB	6:D3:567:LEU:HD21	1.52	1.38
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB2	1.48	1.38
11:I1:846:ILE:CD1	15:M1:594:LYS:CB	2.01	1.38
11:I1:1042:LEU:HA	15:M1:616:LEU:CD2	1.51	1.38
11:I1:1069:SER:C	16:N1:429:GLU:HG2	1.37	1.38
11:I2:797:LEU:HD13	17:O3:245:GLU:CA	1.51	1.38
11:I2:957:SER:CB	20:R3:168:LEU:HA	0.92	1.38
11:I2:981:VAL:CA	20:R3:147:LEU:CD2	2.00	1.38
11:I3:1271:GLU:HB3	26:X1:525:ILE:CG2	1.51	1.38
2:A2:1159:ASP:HA	4:B5:342:ARG:N	1.36	1.38
1:A3:1237:LEU:CD2	3:A6:119:TRP:CE2	2.07	1.38
2:A4:712:THR:O	3:A6:490:PHE:CZ	1.75	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:927:HIS:HD2	15:M1:594:LYS:CA	1.34	1.38
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH2	1.85	1.38
17:O3:101:ASN:CB	18:P3:326:GLN:HE21	1.34	1.38
23:U1:401:PRO:HA	31:c2:552:ARG:N	1.38	1.38
24:V1:343:LYS:HZ2	31:c1:631:LYS:CE	1.37	1.38
28:Z2:411:LEU:N	30:b2:251:ILE:HD13	1.11	1.38
1:A3:1223:GLU:CB	2:A4:676:LEU:HD11	1.50	1.38
1:A3:1250:PRO:HG2	3:A6:635:ARG:CB	1.54	1.37
2:A4:542:LEU:HG	3:A6:364:HIS:CE1	1.52	1.38
2:A4:909:LYS:HG2	6:D3:552:TYR:CZ	1.57	1.38
6:D6:800:PRO:CG	22:T3:765:LYS:CG	2.01	1.38
11:I1:1605:LEU:HD13	11:I2:1669:ARG:CD	1.50	1.38
11:I2:887:GLN:NE2	16:N3:393:ILE:HA	1.05	1.37
18:P2:319:VAL:CG2	18:P3:278:ASN:OD1	1.70	1.38
23:U2:435:PHE:CD1	31:c4:461:PHE:CE1	2.12	1.38
26:X2:297:LYS:CD	34:i:446:LYS:HE2	1.52	1.38
26:X2:306:TRP:HA	34:i:405:TYR:C	1.49	1.38
27:Y2:41:ASP:HB3	29:a2:231[B]:HIS:NE2	1.35	1.38
28:Z3:526:ARG:CB	30:b3:206:ASN:CG	1.95	1.38
23:U1:19:LEU:CB	31:c2:470:ARG:CB	2.00	1.37
28:Z1:528:ILE:CG1	30:b1:210:ARG:NH1	1.79	1.37
1:A3:1201:ARG:CB	2:A4:735:ALA:H	1.34	1.37
1:A3:1229:VAL:N	3:A6:574:ARG:HB3	1.36	1.37
2:A4:689:LYS:HG2	3:A6:396:ALA:CB	1.54	1.37
2:A4:789:LEU:HD22	3:A6:146:LYS:CG	1.54	1.37
2:A4:886:PHE:HA	3:A6:174:PRO:C	1.48	1.37
2:A4:970:PHE:C	6:D3:202:GLN:HG2	1.47	1.37
3:A5:1369:ILE:CG2	28:Z2:830:LEU:CB	1.86	1.37
3:A5:1395:LYS:CG	28:Z2:873:LEU:H	1.34	1.37
3:A6:444:ARG:CG	6:D3:733:ALA:HB1	1.54	1.37
11:I1:883:ALA:CB	17:O1:246:LEU:HB2	1.47	1.37
26:X2:309:LEU:CD2	34:i:396:HIS:HB2	1.53	1.37
27:Y3:41:ASP:HB3	29:a3:231[B]:HIS:NE2	1.35	1.37
1:A1:870:HIS:HB2	6:D3:280:GLN:N	1.05	1.37
1:A1:1399:ARG:N	2:A2:888:GLN:OE1	1.56	1.37
2:A2:869:ALA:CB	6:D1:574:VAL:HG23	1.52	1.37
1:A3:1189:LEU:CD2	3:A6:614:ALA:HB2	1.53	1.37
1:A3:1198:GLU:CA	3:A6:682:ARG:CZ	1.82	1.37
2:A4:860:GLU:CG	6:D3:606:LYS:HB2	1.21	1.37
2:A4:886:PHE:HA	3:A6:175:GLU:N	1.08	1.37
2:A4:907:SER:C	6:D3:552:TYR:OH	1.64	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:983:LEU:HD12	6:D3:553:PHE:CB	1.54	1.37
3:A6:442:ARG:NH2	6:D3:741:ILE:HA	1.35	1.37
8:F1:1137:GLN:CA	17:O2:248:SER:OG	1.69	1.37
11:I2:950:LEU:HD11	16:N3:410:MET:CG	1.50	1.37
24:V1:339:LEU:HD13	31:c1:627:ASP:CA	1.53	1.37
26:X2:309:LEU:N	34:i:405:TYR:HA	1.33	1.37
26:X2:329:ARG:CZ	34:i:475:ILE:HG12	1.51	1.37
28:Z2:534:ASP:OD2	30:b2:183:LEU:CB	1.72	1.37
1:A1:1201:ARG:CD	2:A2:734:LEU:HD23	1.53	1.37
1:A1:1221:ILE:CG2	2:A2:645:PHE:H	1.34	1.37
2:A2:1160:GLN:NE2	3:A5:166:LEU:H	1.14	1.37
11:I1:920:PHE:CE1	17:O1:247:TRP:NE1	1.92	1.37
11:I1:1040:HIS:NE2	16:N1:437:VAL:CG2	1.80	1.37
11:I1:1604:ALA:HA	11:I2:1739:GLU:C	1.49	1.37
11:I2:942:HIS:HB2	17:O3:259:ASP:CA	1.54	1.37
11:I2:981:VAL:N	20:R3:147:LEU:HD11	1.07	1.37
11:I3:1267:LEU:CB	26:X1:497:ARG:CZ	2.02	1.37
28:Z4:526:ARG:CB	30:b4:206:ASN:CG	1.95	1.37
2:A4:724:LEU:HD23	3:A6:496:THR:CA	1.17	1.37
2:A4:730:THR:OG1	3:A6:609:GLU:CG	1.73	1.37
2:A4:860:GLU:CG	6:D3:606:LYS:CB	1.92	1.37
3:A6:444:ARG:O	6:D3:719:LEU:HA	1.20	1.37
4:B5:344:ALA:CA	5:C2:737:LYS:HD3	1.40	1.37
11:I1:1049:LEU:CD1	15:M1:626:HIS:CD2	2.05	1.37
11:I2:947:LEU:CG	16:N3:407:ALA:O	1.70	1.37
11:I3:1267:LEU:CB	26:X1:497:ARG:NH2	1.88	1.37
11:I3:1267:LEU:HB3	26:X1:497:ARG:NH2	1.39	1.37
17:O3:151:LEU:HD21	18:P3:325:ILE:CD1	1.54	1.37
26:X2:287:ASP:HB2	34:i:480[B]:MET:SD	1.63	1.37
26:X2:297:LYS:HD3	34:i:446:LYS:NZ	1.40	1.37
2:A2:1142:PHE:CE2	3:A5:567:VAL:HB	1.57	1.36
1:A3:1167:CYS:N	3:A6:594:LEU:HD23	1.38	1.36
1:A3:1274:ASP:HB2	3:A6:556:PRO:C	1.50	1.36
2:A4:729:SER:CB	3:A6:678:LEU:CD2	1.84	1.36
2:A4:761:GLN:OE1	3:A6:547:GLU:HG3	1.22	1.36
2:A4:865:ALA:CB	6:D3:567:LEU:CD2	2.02	1.36
3:A5:232:LEU:CD2	5:C2:739:MET:H	1.36	1.36
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB3	1.44	1.36
11:I1:1070:LEU:N	16:N1:429:GLU:HG2	1.35	1.36
11:I1:1103:LEU:CD1	20:R1:175:GLN:CG	2.02	1.36
11:I2:899:LEU:C	17:O3:232:LYS:HG2	1.50	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1270:LYS:CE	26:X3:527:VAL:HG11	1.46	1.36
22:T1:755:GLU:N	31:c5:58:ARG:NH2	1.67	1.36
23:U1:21:GLU:CB	31:c2:472:GLU:HA	1.39	1.36
26:X2:196:ASP:HB3	34:i:364:TYR:CE2	1.59	1.36
1:A1:1221:ILE:HG22	2:A2:645:PHE:N	1.32	1.36
2:A2:1148:ARG:HD2	3:A5:171:HIS:O	1.22	1.36
1:A3:1233:GLN:OE1	3:A6:605:TYR:CE2	1.77	1.36
2:A4:710:LEU:CB	3:A6:480:VAL:CG2	2.01	1.36
2:A4:870:HIS:O	6:D3:551:PHE:CD2	1.77	1.36
3:A5:160:ILE:CD1	5:C2:743:LEU:CD1	2.01	1.36
3:A5:172:PRO:HD2	5:C2:730:HIS:CG	1.57	1.36
3:A5:1094:ILE:CG2	11:I5:4:LEU:CB	1.93	1.36
11:I1:952:LEU:CA	16:N1:400:LEU:CD2	2.03	1.36
11:I2:900:ARG:CA	17:O3:232:LYS:CD	2.00	1.36
17:O3:102:LYS:CB	18:P3:322:LYS:NZ	1.86	1.36
22:T1:736:LEU:HB2	31:c5:19:THR:CB	1.55	1.36
28:Z3:534:ASP:OD2	30:b3:183:LEU:CB	1.72	1.36
2:A4:672:ARG:CB	3:A6:96:PRO:HG3	1.12	1.36
2:A4:753:GLU:OE2	3:A6:542:LEU:CD2	1.73	1.36
2:A4:777:LEU:HD12	3:A6:467:LEU:CD1	1.52	1.36
2:A4:854:VAL:HG21	3:A6:172:PRO:CD	1.30	1.36
11:I1:883:ALA:HB1	17:O1:243:LEU:CA	1.56	1.36
11:I1:946:THR:CB	17:O1:260:LEU:CD2	1.96	1.36
11:I2:797:LEU:HD22	17:O3:245:GLU:CG	1.54	1.36
11:I2:997:SER:OG	16:N3:427:VAL:HG23	1.22	1.36
11:I2:1030:ARG:C	20:R3:173:LEU:O	1.65	1.36
22:T1:752:ALA:CA	31:c5:58:ARG:CD	2.04	1.36
24:V1:339:LEU:CB	31:c1:627:ASP:HA	1.54	1.36
26:X2:333:GLU:CD	34:i:475:ILE:CB	1.95	1.36
2:A2:1094:ILE:HG12	6:D2:759:GLN:CD	1.50	1.36
1:A3:1240:HIS:CE1	3:A6:118:SER:N	1.91	1.36
3:A5:1026:PRO:HB2	11:I5:73:TYR:CD1	1.39	1.36
3:A6:520:GLU:H	6:D3:681:ALA:N	1.22	1.36
11:I1:1013:GLU:O	16:N1:411:GLN:CD	1.67	1.36
11:I1:1056:PRO:CA	17:O1:278:GLU:CB	1.88	1.36
11:I3:1277:LEU:CD1	26:X1:511:TYR:CE2	2.09	1.36
17:O3:151:LEU:HD22	18:P3:325:ILE:CB	1.48	1.36
23:U1:440:ASP:OD1	31:c2:462:HIS:CB	1.74	1.36
23:U2:15:PHE:HB3	31:c4:477:GLU:C	1.22	1.36
23:U2:38:ILE:CD1	31:c4:531:TRP:HZ2	1.39	1.36
24:V1:339:LEU:CD1	31:c1:627:ASP:HA	1.52	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V1:343:LYS:NZ	31:c1:631:LYS:HE2	1.08	1.36
26:X2:368:LEU:HB2	34:i:437:SER:O	1.23	1.36
28:Z1:534:ASP:OD2	30:b1:183:LEU:CB	1.72	1.36
28:Z3:410:ASN:ND2	30:b3:252:ALA:HB2	1.32	1.36
2:A2:781:ARG:NE	6:D1:673:ARG:NH1	1.72	1.36
2:A4:720:LEU:CD2	3:A6:494:PRO:CB	2.03	1.36
2:A4:1019:ARG:HH22	6:D3:237:PRO:C	1.31	1.36
3:A5:1360:GLY:O	28:Z2:875:LEU:CB	1.72	1.36
3:A6:1368:GLN:CA	28:Z4:875:LEU:HA	1.48	1.36
11:I1:952:LEU:C	16:N1:403:VAL:CG2	1.90	1.36
11:I2:853:ILE:CG1	17:O3:254:ARG:HD3	1.41	1.36
11:I2:952:LEU:HD23	15:M3:602:MET:CB	1.53	1.36
17:O3:158:GLU:HG3	18:P3:316:LEU:N	1.41	1.36
21:S1:668:ILE:HA	21:S2:1146:ALA:CB	1.54	1.36
23:U2:391:HIS:CD2	31:c4:477:GLU:C	2.03	1.36
23:U2:438:GLU:N	31:c4:195:ILE:HD13	1.39	1.36
28:Z2:526:ARG:CB	30:b2:206:ASN:OD1	1.74	1.36
1:A1:870:HIS:CB	6:D3:279:HIS:ND1	1.87	1.35
2:A2:870:HIS:CD2	6:D1:566:PHE:CD1	2.13	1.35
1:A3:1261:TYR:CE1	3:A6:621:GLN:CG	2.03	1.35
2:A4:768:SER:HA	3:A6:476:PHE:C	1.51	1.35
2:A4:780:GLU:HA	6:D3:679:ILE:CD1	1.35	1.35
2:A4:869:ALA:H	6:D3:570:VAL:CG1	1.38	1.35
8:F1:1137:GLN:CG	17:O2:249:ARG:N	1.82	1.35
8:F1:1137:GLN:HG2	17:O2:248:SER:CA	1.55	1.35
11:I1:841:PHE:CE2	17:O1:243:LEU:HD11	1.58	1.35
11:I1:945:LEU:CD2	17:O1:258:GLU:HB2	1.55	1.35
11:I1:1739:GLU:O	11:I2:1604:ALA:CA	1.73	1.35
11:I2:891:LEU:CD1	16:N3:393:ILE:CD1	2.03	1.35
11:I2:1109:LEU:CG	16:N3:438:LEU:CD2	1.88	1.35
11:I4:1282:PHE:CD2	29:a3:24[B]:GLY:CA	2.07	1.35
23:U1:26:GLN:HB2	31:c2:562:LEU:CB	0.97	1.35
23:U1:135:ARG:CD	31:c1:634:HIS:O	1.73	1.35
27:Y1:41:ASP:HB3	29:a1:231[B]:HIS:NE2	1.35	1.35
28:Z1:410:ASN:HB2	30:b1:251:ILE:CG1	1.56	1.35
28:Z3:526:ARG:O	30:b3:206:ASN:ND2	1.58	1.35
28:Z4:410:ASN:ND2	30:b4:252:ALA:HB2	1.33	1.35
2:A2:780:GLU:HG2	6:D1:678:GLY:C	1.50	1.35
2:A2:970:PHE:CD2	6:D1:498:GLU:OE1	1.80	1.35
2:A4:769:GLU:O	3:A6:528:ILE:CD1	1.74	1.35
2:A4:857:LYS:HZ3	3:A6:129:ASN:ND2	1.19	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:896:ALA:O	3:A6:165:PHE:CD1	1.77	1.35
3:A5:1363:ASP:CB	28:Z2:875:LEU:CB	2.03	1.35
3:A6:446:LEU:CD1	6:D3:721:PRO:HA	1.56	1.35
11:I1:1019:LEU:C	16:N1:409:ALA:CB	1.76	1.35
23:U1:16:SER:HA	31:c2:470:ARG:CD	0.96	1.35
23:U2:42:PHE:CE1	31:c4:478:SER:N	1.90	1.35
24:V2:685:LEU:CB	31:c2:54:ASN:OD1	1.74	1.35
26:X2:361:LEU:HD13	34:i:445:GLN:CG	1.48	1.35
1:A3:1185:THR:CB	3:A6:639:ASN:O	1.74	1.35
1:A3:1261:TYR:HB3	3:A6:621:GLN:N	1.33	1.35
1:A3:1281:LEU:N	3:A6:625:LEU:CG	1.70	1.35
1:A3:1321:MET:HE3	3:A6:571:ARG:NH2	1.04	1.35
2:A4:607:ARG:O	3:A6:506:SER:CA	1.74	1.35
2:A4:711:VAL:CA	3:A6:490:PHE:HB2	0.99	1.35
2:A4:1019:ARG:NH2	6:D3:237:PRO:C	1.84	1.35
3:A5:165:PHE:N	5:C2:743:LEU:HB2	1.40	1.35
3:A5:1029:ILE:HG22	11:I5:71:GLU:N	1.37	1.35
3:A5:1374:ALA:CB	28:Z2:823:ALA:C	1.98	1.35
11:I1:882:LYS:H	17:O1:249:ARG:CB	1.36	1.35
11:I1:1014:ASN:CA	16:N1:411:GLN:O	1.73	1.35
11:I2:898:VAL:CG2	17:O3:236:ASP:HA	1.55	1.35
11:I2:922:ASP:HB2	20:R3:163:LEU:CD1	1.41	1.35
11:I2:1109:LEU:CD1	17:O3:290:TYR:CE2	2.07	1.35
23:U1:401:PRO:CB	31:c2:551:LEU:C	1.96	1.35
23:U2:415:THR:CB	31:c4:541:ARG:NH1	1.88	1.35
26:X2:201:ARG:NH1	34:i:420:TRP:HE1	1.20	1.35
26:X2:283:ASP:CB	34:i:479:THR:CB	1.99	1.35
1:A3:835:THR:HG21	6:D1:302:PRO:CB	1.55	1.35
2:A4:909:LYS:HD2	6:D3:555:ARG:CZ	1.52	1.35
11:I1:949:CYS:SG	15:M1:602:MET:HE2	1.66	1.35
11:I1:967:SER:CB	15:M1:625:GLY:CA	2.01	1.35
11:I1:1104:LEU:C	16:N1:436:ALA:HB1	1.49	1.35
11:I2:880:MET:CE	15:M3:598:GLU:OE1	1.75	1.35
11:I2:964:SER:N	20:R3:165:SER:OG	1.58	1.35
11:I2:1024:PHE:HB3	16:N3:406:HIS:CE1	1.60	1.35
11:I2:1607:GLN:O	12:J1:298:PHE:CG	1.79	1.35
26:X2:366:PRO:O	34:i:366:PHE:CE1	1.77	1.35
2:A2:982:THR:CG2	6:D1:497:PHE:H	1.20	1.35
2:A2:985:ALA:O	6:D1:500:LYS:NZ	1.60	1.35
2:A2:989:MSE:HE3	6:D1:240:ASP:CA	1.46	1.35
2:A4:893:LEU:HD11	3:A6:175:GLU:CB	1.56	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1414:PHE:HA	28:Z2:960:CYS:CB	1.06	1.35
3:A6:132:ASP:CG	6:D3:607:PRO:HD3	1.51	1.35
3:A6:1398:LYS:HD2	28:Z4:918:PHE:CA	1.32	1.35
9:G1:267:GLY:HA2	16:N2:414:ALA:C	1.51	1.35
11:I1:952:LEU:C	16:N1:403:VAL:HG21	0.93	1.35
11:I2:934:LEU:CB	15:M3:602:MET:O	1.72	1.35
11:I2:1020:ALA:CB	16:N3:410:MET:H	1.40	1.35
22:T1:741:ASP:OD1	31:c5:24:GLN:CB	1.70	1.35
23:U3:277:LEU:N	25:W4:192:GLN:NE2	1.73	1.35
26:X2:188:MET:O	34:i:440:GLU:CG	1.75	1.35
26:X2:197:VAL:HG22	34:i:442:SER:CA	0.98	1.35
28:Z1:526:ARG:O	30:b1:206:ASN:ND2	1.58	1.35
2:A2:970:PHE:CD1	6:D1:192:TYR:CE1	2.04	1.34
2:A2:1151:THR:HA	5:C2:733:LEU:CD1	1.57	1.34
2:A4:90:GLN:NE2	3:A6:427:MET:CB	1.89	1.34
2:A4:682:ARG:NH2	3:A6:105:GLY:N	1.71	1.34
2:A4:874:VAL:HG23	6:D3:568:ARG:O	1.20	1.34
2:A4:976:LEU:CD1	6:D3:472:PHE:CE2	2.07	1.34
6:D7:530:ARG:C	11:I3:181:GLN:CB	1.87	1.34
11:I1:880:MET:CG	17:O1:247:TRP:HA	1.54	1.34
21:S1:597:ILE:CB	21:S2:1119:LEU:HB2	1.54	1.34
21:S1:678:GLU:CA	21:S2:1127:GLN:HG2	1.42	1.34
22:T1:720:ILE:CB	31:c5:31:TYR:OH	1.72	1.34
22:T1:736:LEU:N	31:c5:18:SER:CB	1.90	1.34
2:A2:1136:LYS:HG3	3:A5:138:LEU:CB	1.55	1.34
2:A2:1157:TYR:CD1	3:A5:134:VAL:HG23	1.60	1.34
1:A3:1311:ARG:NE	3:A6:715:GLU:CD	1.84	1.34
2:A4:821:ALA:CB	3:A6:147:LEU:N	1.89	1.34
2:A4:899:THR:H	3:A6:178:GLY:CA	1.36	1.34
3:A5:1312:ARG:CD	28:Z2:832:PHE:HA	1.49	1.34
8:F1:1262:HIS:ND1	17:O2:259:ASP:CA	1.89	1.34
9:G1:270:ARG:CB	16:N2:413:VAL:O	1.74	1.34
11:I2:881:ILE:CB	17:O3:249:ARG:O	1.73	1.34
11:I2:896:PRO:HA	17:O3:233:THR:CA	1.52	1.34
11:I2:947:LEU:CD2	16:N3:411:GLN:HG2	1.40	1.34
11:I2:980:ILE:HB	15:M3:618:GLN:CA	1.54	1.34
11:I2:983:LEU:CD2	15:M3:617:THR:OG1	1.69	1.34
11:I4:816:ASP:CG	26:X3:497:ARG:HH11	1.36	1.34
22:T1:752:ALA:HA	31:c5:58:ARG:NE	1.08	1.34
23:U1:38:ILE:HG12	31:c2:473:THR:CA	1.54	1.34
23:U1:176:GLU:OE2	31:c1:505:SER:N	1.57	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:534:ASP:OD2	30:b4:183:LEU:CB	1.72	1.34
2:A2:223:THR:CB	6:D1:709:ARG:HH22	1.39	1.34
2:A4:671:SER:O	3:A6:100:SER:CB	1.72	1.34
2:A4:947:LYS:HE3	3:A6:235:TYR:CE2	1.19	1.34
8:F1:1264:ARG:CZ	17:O2:263:GLN:C	1.98	1.34
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HD3	1.01	1.34
11:I2:983:LEU:C	15:M3:612:PRO:O	1.69	1.34
11:I3:1271:GLU:OE1	26:X1:504:ILE:CG2	1.72	1.34
17:O3:158:GLU:CG	18:P3:316:LEU:N	1.91	1.34
23:U1:24:ILE:CG2	31:c2:471:LEU:CD2	2.02	1.34
23:U1:402:GLY:CA	31:c2:547:ASN:O	1.73	1.34
23:U2:429:ILE:O	31:c4:461:PHE:C	1.70	1.34
28:Z4:526:ARG:O	30:b4:206:ASN:ND2	1.58	1.34
2:A2:823:VAL:HA	2:A2:856:PHE:CE1	1.43	1.34
1:A3:1332:ARG:HB2	3:A6:127:HIS:CE1	1.63	1.34
2:A4:642:ARG:CG	3:A6:501:VAL:CB	2.03	1.34
2:A4:868:GLN:CA	6:D3:570:VAL:CG1	2.03	1.34
2:A4:975:GLU:C	6:D3:501:LEU:HB2	1.53	1.34
11:I1:987:GLY:HA3	15:M1:611:LYS:CG	1.44	1.34
11:I2:914:ASN:O	15:M3:588:MET:N	1.57	1.34
23:U1:23:LYS:HD2	31:c2:479:ILE:C	1.50	1.34
23:U1:202:LEU:CB	31:c1:633:PHE:N	1.89	1.34
23:U1:431:ILE:CG1	31:c2:469:SER:H	1.29	1.34
26:X2:197:VAL:CG1	34:i:366:PHE:CD2	2.10	1.34
28:Z2:524:VAL:CG1	30:b2:236:THR:CG2	1.76	1.34
2:A2:988:ARG:HB3	6:D1:500:LYS:NZ	1.01	1.34
2:A2:1150:LEU:N	5:C2:730:HIS:O	1.61	1.34
1:A3:1163:TYR:HD1	3:A6:648:TYR:CB	1.00	1.34
2:A4:701:ILE:CB	3:A6:466:ALA:HB2	1.57	1.34
2:A4:706:PRO:CD	3:A6:482:LYS:HG3	1.23	1.34
2:A4:879:LEU:CD1	6:D3:564:ASN:OD1	1.74	1.34
3:A5:1098:ARG:CD	11:I5:29:GLN:HG2	1.55	1.34
3:A5:1355:VAL:O	28:Z2:878:HIS:HA	1.26	1.34
11:I1:1664:PHE:O	11:I2:1668:HIS:N	1.60	1.34
11:I2:942:HIS:CB	17:O3:259:ASP:OD2	1.65	1.34
23:U1:400:ASN:OD1	31:c2:553:LEU:CD2	1.74	1.34
28:Z2:528:ILE:HG13	30:b2:210:ARG:NH1	1.37	1.34
1:A3:1186:TRP:CH2	3:A6:637:THR:CG2	2.10	1.33
1:A3:1242:THR:HG23	3:A6:588:SER:N	1.37	1.33
2:A4:777:LEU:CD1	3:A6:467:LEU:HD11	1.54	1.33
3:A5:160:ILE:CD1	5:C2:743:LEU:HD11	1.56	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1312:ARG:HH21	28:Z2:832:PHE:CB	1.37	1.33
11:I1:962:ILE:CD1	15:M1:596:ILE:CG2	1.98	1.33
11:I1:992:ILE:CD1	15:M1:604:ASN:O	1.77	1.33
11:I1:1108:PRO:CB	16:N1:443:GLU:N	1.91	1.33
11:I1:1540:LYS:HE2	11:I2:1739:GLU:CB	1.54	1.33
11:I1:1663:LYS:NZ	11:I2:1659:VAL:O	1.60	1.33
11:I2:947:LEU:HD21	16:N3:411:GLN:CG	1.53	1.33
11:I2:1024:PHE:HB3	16:N3:406:HIS:ND1	1.43	1.33
17:O4:110:LEU:CB	18:P4:321:ILE:HB	1.57	1.33
24:V2:633:THR:CB	31:c2:85:ARG:NH1	1.89	1.33
1:A3:1279:ILE:CA	3:A6:625:LEU:HA	0.91	1.33
2:A4:536:ALA:O	3:A6:362:PHE:CE2	1.81	1.33
2:A4:988:ARG:NH2	6:D3:499:LEU:HA	1.38	1.33
11:I1:874:LEU:CD2	17:O1:252:VAL:HG13	1.57	1.33
11:I1:1054:ILE:C	17:O1:278:GLU:O	1.71	1.33
11:I2:1028:CYS:C	20:R3:173:LEU:H	1.16	1.33
11:I2:1104:LEU:CD2	16:N3:433:GLU:HG3	1.49	1.33
17:O3:102:LYS:CB	18:P3:322:LYS:HZ2	1.38	1.33
23:U2:431:ILE:HB	31:c4:464:LEU:CB	1.25	1.33
28:Z1:523:ASP:HB2	30:b1:238:ASN:CA	1.13	1.33
28:Z2:410:ASN:HB2	30:b2:251:ILE:CG1	1.56	1.33
1:A3:1203:TYR:CA	3:A6:91:LEU:HG	1.35	1.33
1:A3:1260:ALA:CB	3:A6:719:ARG:NH2	1.91	1.33
2:A4:691:LYS:NZ	3:A6:330:LEU:C	1.87	1.33
2:A4:715:GLU:CB	3:A6:112:MET:SD	2.14	1.33
2:A4:720:LEU:HD22	3:A6:494:PRO:CA	1.53	1.33
6:D5:234:LEU:HD11	31:c3:552:ARG:CD	1.58	1.33
8:F1:1203:TRP:CZ2	17:O2:248:SER:CB	2.02	1.33
8:F1:1264:ARG:CZ	17:O2:263:GLN:O	1.73	1.33
11:I1:976:ARG:N	20:R1:149:ARG:CD	1.89	1.33
11:I1:976:ARG:CZ	15:M1:622:VAL:HG13	1.59	1.33
11:I1:982:GLN:CB	15:M1:621:ARG:NH2	1.81	1.33
11:I2:888:GLU:N	16:N3:393:ILE:CG2	1.91	1.33
23:U1:139:VAL:CB	31:c1:635:SER:OG	1.77	1.33
23:U2:405:GLU:N	31:c4:544:VAL:HG23	1.38	1.33
26:X2:321:ALA:H	34:i:84:ARG:CZ	1.40	1.33
28:Z1:410:ASN:CB	30:b1:251:ILE:CD1	1.85	1.33
28:Z3:555:LYS:CE	30:b3:216:LEU:HD22	1.59	1.33
28:Z4:526:ARG:CB	30:b4:206:ASN:OD1	1.74	1.33
1:A1:874:VAL:CG2	6:D3:272:VAL:CG1	2.07	1.33
2:A2:866:SER:O	6:D1:598:ILE:CG2	1.77	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1094:ILE:HG12	6:D2:759:GLN:OE1	1.19	1.33
2:A2:1137:ALA:CB	3:A5:564:ASN:CB	2.07	1.33
2:A4:684:VAL:CG2	3:A6:395:MET:SD	2.16	1.33
2:A4:720:LEU:HB3	3:A6:494:PRO:CA	1.40	1.33
11:I1:1103:LEU:HD13	20:R1:175:GLN:CG	1.59	1.33
11:I1:1607:GLN:CG	11:I2:1739:GLU:CA	1.93	1.33
11:I1:1669:ARG:CA	11:I2:1664:PHE:CZ	2.08	1.33
11:I2:920:PHE:CA	15:M3:592:LEU:HA	1.59	1.33
11:I3:1267:LEU:CB	26:X1:497:ARG:HH22	1.39	1.33
23:U1:202:LEU:HB3	31:c1:633:PHE:N	1.01	1.33
23:U2:14:LYS:HA	31:c4:468:THR:C	1.11	1.33
1:A3:1244:LEU:CB	3:A6:633:MET:HE1	1.57	1.33
2:A4:774:VAL:CG1	3:A6:467:LEU:N	1.89	1.33
2:A4:859:GLN:CG	3:A6:134:VAL:CG2	2.00	1.33
2:A4:889:VAL:CG1	3:A6:171:HIS:CB	2.06	1.33
2:A4:988:ARG:HH22	6:D3:499:LEU:CA	1.40	1.33
4:B5:344:ALA:HB1	5:C2:737:LYS:CD	1.56	1.33
11:I1:797:LEU:HD13	17:O1:245:GLU:CA	1.58	1.33
11:I1:898:VAL:CB	17:O1:235:ASN:O	1.77	1.33
11:I1:952:LEU:CA	16:N1:400:LEU:HD23	1.59	1.33
11:I1:986:ASN:C	15:M1:613:ASP:H	1.35	1.33
11:I1:1607:GLN:HG3	11:I2:1739:GLU:CG	1.59	1.33
11:I2:942:HIS:HB2	17:O3:259:ASP:O	1.29	1.33
11:I2:990:GLU:O	17:O3:271:GLU:C	1.70	1.33
17:O3:102:LYS:HB3	18:P3:322:LYS:NZ	1.03	1.33
17:O4:110:LEU:HD23	18:P4:321:ILE:N	1.00	1.33
23:U2:17:ASP:N	31:c4:468:THR:OG1	1.59	1.33
23:U2:426:TYR:CA	31:c4:463:HIS:ND1	1.91	1.33
26:X2:187:THR:CG2	34:i:444:GLU:HB3	1.48	1.33
28:Z2:522:ASN:H	30:b2:241:PRO:CG	1.29	1.33
1:A1:1221:ILE:CD1	2:A2:618:ALA:HB2	1.57	1.32
1:A3:1192:GLN:CB	3:A6:645:PHE:CD2	2.00	1.32
1:A3:1277:TRP:C	3:A6:625:LEU:CD2	2.00	1.32
2:A4:614:ALA:CB	3:A6:502:THR:CG2	2.04	1.32
2:A4:706:PRO:HD3	3:A6:482:LYS:CG	0.92	1.32
2:A4:754:HIS:CE1	3:A6:685:ARG:HH12	1.44	1.32
11:I1:1605:LEU:CD1	11:I2:1669:ARG:HD2	1.59	1.32
11:I2:896:PRO:CB	17:O3:233:THR:HA	1.58	1.32
23:U1:24:ILE:HD12	31:c2:467:GLU:CD	0.90	1.32
23:U1:176:GLU:OE1	31:c1:505:SER:CB	1.77	1.32
24:V1:339:LEU:HB2	31:c1:627:ASP:CA	1.58	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:401:THR:O	30:b1:254:SER:HB3	1.27	1.32
28:Z2:555:LYS:CE	30:b2:216:LEU:HD22	1.59	1.32
2:A4:701:ILE:HD11	3:A6:466:ALA:N	1.44	1.32
2:A4:760:LEU:HD21	3:A6:98:LEU:CB	1.59	1.32
2:A4:879:LEU:HB2	6:D3:564:ASN:CB	1.58	1.32
3:A5:1312:ARG:CD	28:Z2:832:PHE:CA	2.02	1.32
6:D5:238:ALA:HB1	31:c3:470:ARG:O	1.22	1.32
6:D6:804:SER:CB	22:T3:764:PHE:CE2	2.10	1.32
6:D7:530:ARG:CG	11:I3:181:GLN:HB2	1.59	1.32
9:G1:263:MET:CA	16:N2:411:GLN:CB	2.06	1.32
11:I1:1611:PHE:C	11:I2:1673:VAL:N	1.87	1.32
11:I2:939:ASN:HB3	17:O3:265:ASN:CG	1.19	1.32
11:I2:955:LYS:N	16:N3:403:VAL:HG23	1.43	1.32
11:I2:983:LEU:HD22	15:M3:617:THR:CB	1.19	1.32
11:I2:1021:ILE:CG1	16:N3:410:MET:CE	2.06	1.32
21:S3:678:GLU:CA	21:S4:1144:LEU:H	1.42	1.32
23:U3:278:GLN:NE2	25:W4:189:SER:N	1.77	1.32
26:X1:435:GLU:O	41:m2:20:UNK:CB	1.78	1.32
26:X2:196:ASP:CB	34:i:364:TYR:CE2	2.11	1.32
28:Z3:410:ASN:HB2	30:b3:251:ILE:CG1	1.56	1.32
2:A2:865:ALA:HB3	6:D1:604:ASP:O	1.19	1.32
2:A2:1145:GLY:N	3:A5:129:ASN:ND2	1.77	1.32
1:A3:1233:GLN:HA	3:A6:578:ILE:CG2	1.59	1.32
2:A4:536:ALA:O	3:A6:369:SER:N	1.59	1.32
2:A4:611:ILE:CG2	3:A6:508:LEU:CD2	1.97	1.32
2:A4:867:GLU:OE1	6:D3:593:ARG:NH2	1.58	1.32
3:A5:1030:THR:N	11:I5:71:GLU:O	1.62	1.32
3:A5:1406:GLY:CA	28:Z2:921:THR:CB	2.05	1.32
8:F1:1137:GLN:CG	17:O2:248:SER:OG	1.75	1.32
11:I1:877:ILE:HG21	17:O1:253:LEU:CA	1.59	1.32
11:I1:1020:ALA:HA	16:N1:405:ALA:C	1.16	1.32
11:I1:1109:LEU:CD1	17:O1:290:TYR:CD2	2.09	1.32
11:I2:884:LEU:HD11	15:M3:599:ILE:CD1	1.59	1.32
11:I2:966:TRP:CZ3	20:R3:167:GLN:CG	2.11	1.32
11:I2:1021:ILE:CG1	16:N3:410:MET:HE2	1.60	1.32
11:I2:1037:THR:CG2	20:R3:169:GLY:HA2	1.58	1.32
23:U2:15:PHE:CB	31:c4:477:GLU:O	1.76	1.32
28:Z1:402:GLY:CA	30:b1:254:SER:OG	1.78	1.32
28:Z2:526:ARG:O	30:b2:206:ASN:ND2	1.58	1.32
28:Z4:410:ASN:HB2	30:b4:251:ILE:CG1	1.56	1.32
2:A2:1153:LEU:HG	3:A5:173:ASN:C	1.50	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1172:HIS:CB	3:A6:587:VAL:O	1.78	1.32
1:A3:1200:ARG:NH1	3:A6:608:VAL:HB	1.45	1.32
1:A3:1229:VAL:CA	3:A6:574:ARG:HB3	1.59	1.32
1:A3:1249:PHE:CB	3:A6:633:MET:SD	2.17	1.32
2:A4:778:PHE:N	3:A6:481:ARG:NH1	1.74	1.32
2:A4:779:ASP:O	6:D3:674:TYR:HA	1.26	1.32
2:A4:877:ALA:HA	6:D3:563:GLU:CA	1.03	1.32
2:A4:897:ASN:HA	3:A6:165:PHE:CB	1.58	1.32
3:A5:153:ILE:CD1	5:C2:739:MET:CE	2.08	1.32
3:A5:220:VAL:HG11	5:C2:739:MET:CB	1.58	1.32
8:F1:1137:GLN:HG2	17:O2:248:SER:C	1.54	1.32
11:I2:894:VAL:HG11	17:O3:237:PRO:C	1.36	1.32
11:I2:900:ARG:HA	17:O3:232:LYS:CG	1.54	1.32
11:I2:1046:HIS:CB	17:O3:280:GLU:O	1.76	1.32
23:U2:432:TYR:CA	31:c4:539:ILE:HG21	1.58	1.32
23:U3:278:GLN:NE2	25:W4:188:ASN:C	1.86	1.32
26:X2:196:ASP:HA	34:i:438:LEU:C	0.99	1.32
28:Z4:531:LYS:HD2	30:b4:182:PRO:O	1.27	1.32
1:A3:1261:TYR:CB	3:A6:621:GLN:HG2	0.95	1.32
2:A4:642:ARG:NE	3:A6:501:VAL:HG21	1.45	1.32
2:A4:771:ILE:N	3:A6:477:PHE:CB	1.86	1.32
2:A4:897:ASN:N	3:A6:177:ILE:O	1.59	1.32
2:A4:1151:THR:HA	5:C4:733:LEU:CD1	1.57	1.32
3:A6:1370:ALA:N	28:Z4:874:ASN:CB	1.90	1.32
8:F1:1261:TYR:CD1	17:O2:263:GLN:HB2	1.63	1.32
11:I1:1037:THR:HA	15:M1:624:ASN:ND2	1.41	1.32
11:I1:1056:PRO:HA	17:O1:278:GLU:CG	1.59	1.32
11:I1:1669:ARG:HH12	11:I2:1642:LEU:CD1	1.43	1.32
11:I2:894:VAL:CB	17:O3:239:GLN:H	1.05	1.32
11:I2:1031:ALA:N	20:R3:173:LEU:CA	1.91	1.32
11:I2:1104:LEU:HD21	16:N3:433:GLU:CG	1.53	1.32
17:O4:112:GLY:CA	18:P1:278:ASN:HB2	1.58	1.32
21:S3:686:ALA:CB	21:S4:1153:GLN:CB	2.06	1.32
23:U1:438:GLU:HG3	31:c2:541:ARG:NH1	1.44	1.32
2:A2:980:ARG:CG	6:D1:473:GLU:CG	2.08	1.31
1:A3:1260:ALA:CB	3:A6:719:ARG:CD	2.07	1.31
2:A4:542:LEU:CG	3:A6:364:HIS:CE1	1.95	1.31
2:A4:550:VAL:CG2	3:A6:367:ASP:CB	2.08	1.31
2:A4:615:LEU:HB3	3:A6:509:LYS:O	1.22	1.31
2:A4:652:PRO:CB	3:A6:542:LEU:HD13	1.57	1.31
2:A4:1149:THR:CA	5:C4:730:HIS:O	1.76	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:132:ASP:CB	6:D3:607:PRO:HD3	1.60	1.31
3:A6:446:LEU:HD11	6:D3:721:PRO:CB	1.60	1.31
3:A6:1403:MSE:CG	26:X4:742:ALA:O	1.76	1.31
9:G1:262:SER:O	16:N2:411:GLN:CD	1.70	1.31
11:I1:922:ASP:C	15:M1:589:GLY:O	1.70	1.31
11:I1:1052:LEU:HD12	17:O1:287:LEU:CD1	1.57	1.31
11:I3:1267:LEU:HD21	26:X1:529:TRP:CH2	1.63	1.31
23:U2:391:HIS:CG	31:c4:477:GLU:HA	0.80	1.31
26:X2:196:ASP:HB3	34:i:364:TYR:CD2	1.65	1.31
26:X2:279:ALA:HB1	34:i:15:GLN:N	1.44	1.31
28:Z1:555:LYS:CE	30:b1:216:LEU:HD22	1.59	1.31
1:A3:1021:LEU:CB	6:D3:816:VAL:CG1	2.06	1.31
1:A3:1188:ASN:C	3:A6:645:PHE:HB2	1.51	1.31
1:A3:1198:GLU:CB	3:A6:678:LEU:HG	1.36	1.31
2:A4:710:LEU:C	3:A6:462:LEU:CD2	2.00	1.31
3:A6:132:ASP:OD2	6:D3:607:PRO:CD	1.79	1.31
6:D5:243:LYS:HB3	31:c3:470:ARG:NH2	1.33	1.31
6:D6:800:PRO:HG3	22:T3:765:LYS:CG	1.58	1.31
6:D7:531:LEU:N	11:I3:181:GLN:HB3	1.31	1.31
11:I1:942:HIS:H	17:O1:259:ASP:C	1.38	1.31
11:I1:945:LEU:HD23	17:O1:259:ASP:N	1.01	1.31
11:I1:947:LEU:CA	16:N1:407:ALA:CB	2.08	1.31
11:I1:1049:LEU:HD12	15:M1:626:HIS:NE2	1.37	1.31
11:I1:1049:LEU:HD22	20:R1:146:LEU:CD2	1.60	1.31
11:I2:874:LEU:CA	17:O3:255:GLY:CA	2.04	1.31
11:I2:966:TRP:HZ3	20:R3:167:GLN:CD	1.38	1.31
11:I2:980:ILE:CA	15:M3:618:GLN:HA	1.59	1.31
18:P2:319:VAL:HG23	18:P3:278:ASN:CG	1.52	1.31
23:U1:38:ILE:CD1	31:c2:475:ALA:H	1.41	1.31
23:U1:409:LYS:CE	31:c2:548:VAL:HG13	1.59	1.31
23:U2:400:ASN:ND2	31:c4:550:LYS:CE	1.91	1.31
24:V1:346:THR:HG22	31:c1:526:GLU:CB	1.60	1.31
28:Z2:402:GLY:HA3	30:b2:254:SER:OG	1.18	1.31
28:Z4:402:GLY:HA3	30:b4:254:SER:OG	1.18	1.31
1:A1:834:GLU:CB	6:D3:302:PRO:HG3	1.60	1.31
1:A1:1222:ALA:CB	2:A2:615:LEU:HD12	1.57	1.31
1:A3:1021:LEU:CD2	6:D3:816:VAL:HG13	1.58	1.31
1:A3:1054:SER:HA	6:D3:809:ALA:O	1.18	1.31
1:A3:1164:TYR:CD1	3:A6:642:ARG:O	1.81	1.31
2:A4:80:LYS:HD2	3:A6:387:THR:CG2	1.32	1.31
2:A4:803:GLU:O	3:A6:382:SER:CA	1.78	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1375:THR:O	28:Z4:830:LEU:CB	1.79	1.31
8:F1:1261:TYR:CD2	17:O2:259:ASP:OD2	1.82	1.31
11:I1:878:GLN:N	17:O1:252:VAL:H	1.28	1.31
11:I1:945:LEU:CD2	17:O1:259:ASP:H	1.41	1.31
11:I3:1267:LEU:HB2	26:X1:497:ARG:NH1	1.01	1.31
23:U1:22:PHE:O	31:c2:563:ARG:CD	1.79	1.31
23:U2:431:ILE:CB	31:c4:464:LEU:HB3	1.59	1.31
26:X2:197:VAL:CG1	34:i:366:PHE:CE2	2.05	1.31
26:X2:333:GLU:OE2	34:i:475:ILE:HD12	1.17	1.31
28:Z3:526:ARG:CB	30:b3:206:ASN:OD1	1.74	1.31
2:A2:1135:ARG:HD2	3:A5:147:LEU:CD2	1.58	1.31
2:A4:691:LYS:CB	3:A6:316:ARG:CZ	2.04	1.31
2:A4:724:LEU:CD2	3:A6:496:THR:HA	0.93	1.31
2:A4:898:LEU:HA	3:A6:176:LEU:O	1.25	1.31
2:A4:944:SER:O	4:B6:351:GLU:CG	1.76	1.31
2:A4:1150:LEU:N	5:C4:730:HIS:O	1.61	1.31
11:I2:950:LEU:HD22	16:N3:406:HIS:NE2	1.42	1.31
11:I2:983:LEU:CD2	15:M3:617:THR:HB	1.44	1.31
11:I2:1100:ILE:HG23	16:N3:433:GLU:CD	1.53	1.31
23:U2:78:VAL:C	31:c4:553:LEU:HD13	1.56	1.31
23:U2:430:PRO:HB3	31:c4:458:LYS:C	1.55	1.31
23:U3:276:VAL:C	25:W4:192:GLN:NE2	1.86	1.31
26:X2:321:ALA:HB2	34:i:84:ARG:NE	1.38	1.31
28:Z4:524:VAL:H	30:b4:238:ASN:CB	1.43	1.31
2:A2:1160:GLN:OE1	3:A5:178:GLY:HA2	1.26	1.31
1:A3:1091:VAL:HG21	6:D3:808:ASN:N	1.42	1.31
1:A3:1227:PRO:HB2	3:A6:552:PHE:CE2	1.63	1.31
1:A3:1250:PRO:CG	3:A6:635:ARG:HB3	1.58	1.31
2:A4:772:SER:O	3:A6:489:LEU:HD11	1.27	1.31
2:A4:780:GLU:OE1	6:D3:679:ILE:HG23	1.31	1.31
2:A4:866:SER:OG	3:A6:136:GLU:HG2	1.31	1.31
3:A5:153:ILE:CD1	5:C2:739:MET:SD	2.16	1.31
8:F1:1094:GLY:HA3	17:O2:237:PRO:CA	1.57	1.31
9:G1:255:LEU:H	15:M2:602:MET:CA	1.40	1.31
11:I1:1021:ILE:HG23	16:N1:406:HIS:CE1	1.66	1.31
11:I1:1659:VAL:O	11:I2:1663:LYS:NZ	1.60	1.31
11:I2:948:ALA:N	17:O3:256:TYR:HD2	1.27	1.31
11:I2:1030:ARG:C	20:R3:173:LEU:C	1.90	1.31
11:I2:1040:HIS:CE1	16:N3:437:VAL:HG11	1.63	1.31
11:I2:1055:GLU:O	17:O3:278:GLU:HA	1.21	1.31
23:U1:202:LEU:HA	31:c1:632:HIS:CB	1.31	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:300:SER:HB3	34:i:335:HIS:CB	1.56	1.31
28:Z1:526:ARG:CB	30:b1:206:ASN:OD1	1.74	1.31
28:Z2:402:GLY:CA	30:b2:254:SER:OG	1.78	1.31
1:A3:1311:ARG:NE	3:A6:715:GLU:OE2	1.60	1.30
1:A3:1392:ARG:HB2	3:A6:225:THR:OG1	1.26	1.30
2:A4:616:ALA:CB	3:A6:109:ASP:CG	2.01	1.30
2:A4:670:SER:CB	3:A6:542:LEU:HD21	1.60	1.30
2:A4:986:THR:CG2	6:D3:504:LYS:HD3	1.56	1.30
6:D7:531:LEU:N	11:I3:181:GLN:CG	1.76	1.30
8:F1:1093:LEU:HD11	17:O2:240:GLY:C	1.56	1.30
11:I1:946:THR:HB	17:O1:260:LEU:CD2	1.50	1.30
11:I1:1604:ALA:HA	11:I2:1739:GLU:O	1.13	1.30
11:I2:836:VAL:HG12	17:O3:244:GLU:CB	0.94	1.30
23:U2:16:SER:CA	31:c4:479:ILE:O	1.78	1.30
23:U2:436:LEU:HG	31:c4:540:HIS:CG	1.65	1.30
23:U3:278:GLN:CG	25:W4:189:SER:CA	2.01	1.30
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ2	1.43	1.30
2:A2:980:ARG:NH2	6:D1:503:LEU:CB	1.87	1.30
2:A2:1149:THR:CA	5:C2:730:HIS:O	1.75	1.30
2:A4:860:GLU:HG2	6:D3:606:LYS:CB	1.39	1.30
3:A5:147:LEU:O	5:C2:747:PRO:HB3	1.30	1.30
3:A5:999:SER:O	11:I5:64:LYS:CD	1.78	1.30
11:I1:833:PHE:HE2	17:O1:238:ALA:C	1.36	1.30
11:I1:945:LEU:CD1	17:O1:254:ARG:O	1.79	1.30
11:I1:1026:TYR:CE1	20:R1:175:GLN:OE1	1.84	1.30
11:I2:833:PHE:HE1	17:O3:245:GLU:CG	1.41	1.30
11:I2:957:SER:HA	20:R3:167:GLN:C	1.54	1.30
11:I3:1271:GLU:CB	26:X1:525:ILE:HG23	1.58	1.30
21:S1:668:ILE:C	21:S2:1146:ALA:HB1	1.55	1.30
23:U2:75:TRP:CH2	31:c4:476:PRO:HD2	1.65	1.30
26:X2:366:PRO:O	34:i:366:PHE:CD1	1.83	1.30
26:X2:368:LEU:CB	34:i:437:SER:O	1.79	1.30
28:Z1:524:VAL:H	30:b1:238:ASN:CB	1.44	1.30
28:Z4:402:GLY:CA	30:b4:254:SER:OG	1.78	1.30
1:A1:1204:TRP:CE3	2:A2:734:LEU:HD13	1.62	1.30
1:A3:1270:SER:OG	3:A6:553:ASP:CB	1.78	1.30
2:A4:677:ALA:CB	3:A6:98:LEU:HG	1.38	1.30
2:A4:684:VAL:HG22	3:A6:405:PHE:CZ	1.63	1.30
3:A5:999:SER:OG	11:I5:63:PRO:HD2	1.17	1.30
3:A5:1414:PHE:CA	28:Z2:960:CYS:CB	1.83	1.30
11:I1:976:ARG:NH2	15:M1:622:VAL:HG11	1.47	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:874:LEU:N	17:O3:255:GLY:HA3	1.46	1.30
11:I2:928:LEU:CD1	20:R3:151:LYS:HE2	1.60	1.30
21:S1:671:ALA:N	21:S2:1146:ALA:N	1.79	1.30
23:U1:135:ARG:HD3	31:c1:634:HIS:O	1.23	1.30
26:X2:280:VAL:HG22	34:i:14:TRP:CD1	1.66	1.30
2:A2:1125:LEU:HB2	3:A5:132:ASP:O	1.15	1.30
1:A3:1161:ALA:C	3:A6:647:GLU:O	1.71	1.30
1:A3:1236:GLN:CB	3:A6:581:LYS:HB3	1.60	1.30
2:A4:87:GLN:CG	3:A6:408:ALA:H	1.45	1.30
2:A4:691:LYS:HZ3	3:A6:331:SER:N	1.27	1.30
3:A5:1363:ASP:HB3	28:Z2:875:LEU:CB	1.56	1.30
3:A5:1365:VAL:C	28:Z2:841:ALA:HB1	1.56	1.30
11:I1:934:LEU:HA	15:M1:602:MET:CE	1.59	1.30
11:I1:990:GLU:HG2	17:O1:275:LEU:CD2	1.60	1.30
11:I1:1017:VAL:N	16:N1:412:ASN:N	1.68	1.30
11:I1:1049:LEU:CB	20:R1:146:LEU:HD13	1.61	1.30
11:I2:887:GLN:C	16:N3:393:ILE:HG21	1.18	1.30
11:I3:1275:SER:C	26:X1:522:MET:HB3	1.10	1.30
11:I4:1279:THR:HG21	26:X3:520:GLU:CB	1.59	1.30
21:S1:671:ALA:H	21:S2:1146:ALA:CA	1.43	1.30
26:X2:296:PRO:HD3	34:i:416:VAL:CA	1.56	1.30
28:Z3:402:GLY:CA	30:b3:254:SER:OG	1.78	1.30
28:Z3:524:VAL:H	30:b3:238:ASN:CB	1.43	1.30
28:Z4:407:GLY:O	30:b4:251:ILE:CD1	1.79	1.30
2:A2:980:ARG:CG	6:D1:473:GLU:HG2	1.59	1.30
1:A3:1241:ARG:NH2	3:A6:596:ARG:HB3	1.45	1.30
1:A3:1267:GLN:CD	3:A6:552:PHE:N	1.80	1.30
2:A4:89:LEU:HD13	3:A6:406:LEU:CD1	1.61	1.30
2:A4:689:LYS:HA	3:A6:381:LEU:CD2	1.61	1.30
2:A4:710:LEU:O	3:A6:490:PHE:HB3	1.15	1.30
2:A4:774:VAL:HG11	3:A6:467:LEU:N	0.98	1.30
2:A4:949:PHE:CB	4:B6:348:PRO:HD3	1.61	1.30
3:A5:1024:ASP:HB3	11:I5:98:ALA:CB	1.50	1.30
8:F1:1137:GLN:HB3	17:O2:248:SER:N	1.46	1.30
11:I2:890:TYR:N	17:O3:242:ARG:NE	1.80	1.30
11:I2:922:ASP:HB3	15:M3:589:GLY:O	1.20	1.30
11:I2:966:TRP:O	20:R3:150:ASN:HA	1.16	1.30
11:I2:1017:VAL:CG2	16:N3:411:GLN:HA	1.04	1.30
17:O3:147:ALA:HB1	18:P3:328:PRO:CB	1.61	1.30
23:U2:16:SER:HA	31:c4:479:ILE:O	1.16	1.30
23:U2:396:LEU:O	31:c4:554:LEU:HD23	1.26	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U3:278:GLN:CD	25:W4:189:SER:HA	0.88	1.30
28:Z2:524:VAL:H	30:b2:238:ASN:CB	1.44	1.30
28:Z4:522:ASN:H	30:b4:241:PRO:CG	1.29	1.30
28:Z4:555:LYS:CE	30:b4:216:LEU:HD22	1.59	1.30
1:A3:1224:PRO:HA	3:A6:496:THR:O	1.13	1.29
1:A3:1251:VAL:HA	3:A6:634:ASP:CB	1.62	1.29
2:A4:611:ILE:CG2	3:A6:508:LEU:CD1	1.80	1.29
2:A4:792:VAL:N	3:A6:187:THR:HB	1.47	1.29
2:A4:946:LYS:HA	4:B6:348:PRO:CG	1.55	1.29
2:A4:983:LEU:HD11	6:D3:553:PHE:O	1.21	1.29
11:I1:1021:ILE:HD11	16:N1:410:MET:CB	1.62	1.29
11:I2:1053:GLY:C	17:O3:279:ILE:O	1.74	1.29
11:I3:1275:SER:OG	26:X1:522:MET:HG2	1.13	1.29
17:O3:155:VAL:CG2	18:P3:321:ILE:HG21	1.59	1.29
21:S1:680:PRO:O	21:S2:1127:GLN:CD	1.75	1.29
23:U2:25:GLU:CB	31:c4:486:VAL:CG1	1.99	1.29
23:U2:78:VAL:CG1	31:c4:553:LEU:HD13	1.62	1.29
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:NE2	1.95	1.29
2:A2:986:THR:OG1	6:D1:497:PHE:CE1	1.75	1.29
2:A2:1149:THR:C	5:C2:730:HIS:O	1.76	1.29
1:A3:1084:ARG:O	6:D3:797:GLY:HA3	1.24	1.29
2:A4:550:VAL:HG22	3:A6:367:ASP:CB	1.62	1.29
2:A4:825:ARG:CB	3:A6:138:LEU:HD13	1.61	1.29
2:A4:876:ARG:CD	6:D3:565:MET:HG2	1.60	1.29
3:A5:175:GLU:OE1	5:C2:733:LEU:HD11	1.16	1.29
3:A5:1027:HIS:CG	11:I5:65:LYS:C	2.03	1.29
11:I1:877:ILE:HG21	17:O1:253:LEU:CB	1.60	1.29
11:I1:895:ARG:HE	17:O1:233:THR:CG2	1.43	1.29
11:I1:930:LEU:CB	15:M1:597:LYS:O	1.80	1.29
11:I1:1017:VAL:N	16:N1:411:GLN:HG3	1.43	1.29
11:I1:1070:LEU:N	16:N1:429:GLU:CG	1.94	1.29
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HD12	1.47	1.29
11:I2:836:VAL:CG1	17:O3:244:GLU:HB3	1.14	1.29
11:I2:885:GLU:HA	16:N3:397:GLU:CG	1.61	1.29
11:I3:1275:SER:C	26:X1:522:MET:CB	1.97	1.29
17:O3:162:LYS:N	18:P3:315:GLU:OE1	1.65	1.29
24:V2:633:THR:CB	31:c2:85:ARG:HH12	1.43	1.29
1:A1:1221:ILE:HG23	2:A2:642:ARG:O	1.30	1.29
2:A2:965:LYS:HG3	6:D1:196:ILE:O	1.31	1.29
1:A3:1231:VAL:O	3:A6:579:PHE:HB3	1.32	1.29
1:A3:1234:GLN:O	3:A6:583:LEU:HD13	1.18	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:90:GLN:CD	3:A6:427:MET:HA	1.21	1.29
2:A4:615:LEU:CB	3:A6:509:LYS:O	1.80	1.29
2:A4:780:GLU:CG	6:D3:679:ILE:HG12	0.82	1.29
2:A4:806:PHE:CE2	3:A6:395:MET:CE	2.14	1.29
2:A4:895:PRO:CB	3:A6:179:TYR:HB2	1.62	1.29
3:A5:186:ILE:HB	5:C2:744:PHE:O	1.24	1.29
3:A5:1026:PRO:O	11:I5:68:ILE:N	1.65	1.29
11:I1:1114:VAL:N	16:N1:435:ALA:HB1	1.48	1.29
11:I2:850:ILE:CG2	15:M3:598:GLU:OE2	1.80	1.29
11:I2:880:MET:C	17:O3:246:LEU:O	1.74	1.29
11:I3:1276:GLN:N	26:X1:522:MET:HB3	1.44	1.29
23:U2:34:ASP:N	31:c4:558:GLU:OE1	1.65	1.29
26:X2:297:LYS:HD3	34:i:446:LYS:CE	1.62	1.29
28:Z1:531:LYS:HD2	30:b1:182:PRO:O	1.27	1.29
28:Z2:410:ASN:CB	30:b2:251:ILE:CD1	1.85	1.29
28:Z3:410:ASN:CB	30:b3:251:ILE:CD1	1.85	1.29
2:A2:780:GLU:H	6:D1:678:GLY:N	1.30	1.29
2:A2:870:HIS:NE2	6:D1:551:PHE:HB3	1.42	1.29
2:A2:1154:PHE:CZ	4:B5:342:ARG:HD2	1.68	1.29
1:A3:1099:GLN:NE2	11:I2:1415:SER:C	1.90	1.29
1:A3:1158:ALA:O	3:A6:647:GLU:HB3	1.32	1.29
2:A4:537:ALA:CA	3:A6:362:PHE:CZ	2.10	1.29
2:A4:824:ASN:O	3:A6:138:LEU:CD1	1.67	1.29
3:A6:520:GLU:HB2	6:D3:635:ALA:CB	1.62	1.29
8:F1:1265:GLN:C	17:O2:265:ASN:HB2	1.57	1.29
11:I1:976:ARG:HB3	20:R1:149:ARG:CB	1.61	1.29
11:I1:1024:PHE:HB2	16:N1:406:HIS:CB	1.61	1.29
11:I2:900:ARG:CB	17:O3:232:LYS:CD	2.10	1.29
11:I2:985:ARG:N	15:M3:613:ASP:CA	1.75	1.29
11:I2:1038:ILE:HG13	20:R3:167:GLN:OE1	1.30	1.29
17:O1:103:VAL:HG13	18:P1:326:GLN:NE2	1.45	1.29
26:X2:198:GLU:CD	34:i:335:HIS:O	1.75	1.29
26:X2:361:LEU:HG	34:i:423:LYS:CE	1.62	1.29
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:NE2	1.95	1.29
28:Z1:534:ASP:HB2	30:b1:183:LEU:N	1.48	1.29
28:Z3:407:GLY:O	30:b3:251:ILE:CD1	1.79	1.29
2:A2:866:SER:CB	6:D1:602:THR:O	1.79	1.29
1:A3:1189:LEU:CD2	3:A6:614:ALA:CB	2.09	1.29
1:A3:1249:PHE:CE1	3:A6:584:GLY:HA3	1.55	1.29
2:A4:537:ALA:HB2	3:A6:367:ASP:O	1.13	1.29
2:A4:678:LEU:CD2	3:A6:103:ARG:O	1.80	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:710:LEU:HD23	3:A6:479:VAL:C	1.58	1.29
2:A4:789:LEU:CD2	3:A6:146:LYS:HB2	1.45	1.29
2:A4:826:ASN:HD21	3:A6:565:THR:CG2	1.42	1.29
2:A4:876:ARG:HG2	6:D3:563:GLU:O	1.11	1.29
2:A4:908:LEU:CA	6:D3:552:TYR:CE1	2.09	1.29
2:A4:983:LEU:CD1	6:D3:553:PHE:C	2.06	1.29
8:F1:1137:GLN:CA	17:O2:248:SER:CB	2.09	1.29
8:F1:1264:ARG:O	17:O2:265:ASN:HB3	1.32	1.29
11:I1:923:GLY:HA3	15:M1:591:ASP:C	1.56	1.29
11:I1:1642:LEU:HD13	11:I2:1669:ARG:NH1	1.46	1.29
11:I2:921:GLU:O	15:M3:593:ALA:HA	1.26	1.29
11:I2:957:SER:HA	20:R3:167:GLN:O	1.24	1.29
11:I2:980:ILE:O	15:M3:618:GLN:HG3	1.22	1.29
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB3	1.50	1.29
23:U1:19:LEU:CB	31:c2:470:ARG:HB3	1.61	1.29
23:U2:13:THR:HG22	31:c4:467:GLU:O	1.19	1.29
23:U2:41:GLU:CB	31:c4:563:ARG:NH1	1.94	1.29
26:X2:204:PHE:CZ	34:i:444:GLU:HG2	1.66	1.29
1:A1:870:HIS:CB	6:D3:280:GLN:N	1.96	1.28
1:A3:1235:ILE:O	3:A6:581:LYS:C	1.74	1.28
2:A4:623:SER:OG	3:A6:453:SER:HB3	1.30	1.28
2:A4:679:TYR:CE2	3:A6:511:PHE:C	2.06	1.28
2:A4:767:ILE:HA	3:A6:469:PHE:C	1.54	1.28
2:A4:778:PHE:C	3:A6:487:ASP:OD1	1.74	1.28
2:A4:780:GLU:CD	3:A6:523:ASN:HA	1.44	1.28
2:A4:805:LEU:CD1	3:A6:469:PHE:CE2	2.11	1.28
2:A4:893:LEU:CG	3:A6:175:GLU:HG3	1.62	1.28
2:A4:1055:ARG:HD3	6:D4:762:ARG:CA	1.61	1.28
11:I1:879:VAL:HG13	17:O1:244:GLU:O	1.11	1.28
11:I1:881:ILE:HD11	17:O1:253:LEU:CD1	1.61	1.28
23:U1:431:ILE:CD1	31:c2:469:SER:H	1.44	1.28
23:U2:437:ASN:HB2	31:c4:431:ASN:OD1	1.31	1.28
26:X2:369:GLU:CG	34:i:428:LEU:CG	2.11	1.28
2:A2:864:ARG:O	6:D1:608:ILE:HG12	1.19	1.28
2:A2:907:SER:O	6:D1:601:PHE:CA	1.68	1.28
2:A2:1128:ASP:C	3:A5:140:ALA:CA	1.94	1.28
2:A2:1142:PHE:CE2	3:A5:567:VAL:CB	2.01	1.28
1:A3:1169:LEU:C	3:A6:590:SER:O	1.76	1.28
1:A3:1226:LEU:HD22	3:A6:550:VAL:N	0.97	1.28
1:A3:1227:PRO:CG	3:A6:682:ARG:HD3	1.64	1.28
2:A4:767:ILE:CA	3:A6:469:PHE:O	1.79	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:770:GLY:O	3:A6:469:PHE:CD2	1.83	1.28
2:A4:986:THR:HB	6:D3:504:LYS:CD	1.61	1.28
3:A5:164:LEU:CB	5:C2:742:ASP:OD2	1.80	1.28
3:A5:1101:GLN:NE2	11:I5:33:THR:HG23	0.98	1.28
11:I1:959:SER:CA	16:N1:395:GLU:HB3	1.64	1.28
11:I1:976:ARG:NH1	15:M1:622:VAL:HG13	0.98	1.28
11:I1:992:ILE:HD13	15:M1:604:ASN:O	1.29	1.28
11:I1:1056:PRO:CA	17:O1:278:GLU:CG	2.07	1.28
11:I2:967:SER:CB	15:M3:625:GLY:CA	2.10	1.28
11:I2:976:ARG:HH12	15:M3:622:VAL:CG2	1.46	1.28
11:I2:1039:ALA:CB	20:R3:170:LEU:CD1	2.10	1.28
11:I2:1052:LEU:HB3	17:O3:283:ALA:CB	1.35	1.28
22:T1:755:GLU:OE1	31:c5:89:LEU:HD22	1.23	1.28
26:X2:197:VAL:CG2	34:i:442:SER:HA	1.29	1.28
26:X2:286:SER:O	34:i:492:TRP:CD2	1.75	1.28
26:X2:308:ASN:HD22	34:i:315:LEU:CD2	1.44	1.28
26:X2:329:ARG:NE	34:i:475:ILE:CG1	1.95	1.28
28:Z1:402:GLY:HA3	30:b1:254:SER:OG	1.18	1.28
2:A2:973:GLU:CD	6:D1:205:LEU:CD1	1.99	1.28
2:A2:975:GLU:N	6:D1:499:LEU:HG	1.41	1.28
1:A3:1278:PRO:CB	3:A6:624:ASP:CB	2.04	1.28
2:A4:679:TYR:HE2	3:A6:511:PHE:C	1.20	1.28
2:A4:778:PHE:N	3:A6:487:ASP:OD2	1.65	1.28
2:A4:780:GLU:HA	3:A6:522:GLY:O	1.13	1.28
2:A4:895:PRO:HB2	3:A6:179:TYR:CB	1.62	1.28
11:I1:924:ILE:HD13	15:M1:595:MET:CB	1.62	1.28
11:I2:949:CYS:SG	15:M3:602:MET:CE	2.22	1.28
11:I2:966:TRP:O	20:R3:150:ASN:CA	1.82	1.28
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD1	1.63	1.28
11:I2:1048:GLU:O	17:O3:287:LEU:CB	1.82	1.28
23:U1:35:PRO:CA	31:c2:474:ASN:OD1	1.80	1.28
23:U1:172:LYS:HD3	31:c1:506:HIS:CB	1.53	1.28
23:U2:25:GLU:O	31:c4:490:GLY:N	1.64	1.28
23:U2:38:ILE:CD1	31:c4:531:TRP:CZ2	2.12	1.28
23:U3:278:GLN:HE22	25:W4:188:ASN:C	1.37	1.28
26:X2:304:ARG:O	34:i:317:LEU:CD2	1.81	1.28
28:Z3:522:ASN:H	30:b3:241:PRO:CG	1.29	1.28
28:Z4:401:THR:O	30:b4:254:SER:HB3	1.27	1.28
1:A3:1163:TYR:CD1	3:A6:648:TYR:CB	1.81	1.28
1:A3:1201:ARG:HG2	2:A4:728:LYS:O	1.23	1.28
1:A3:1223:GLU:CG	2:A4:734:LEU:HD11	1.62	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1237:LEU:CD2	3:A6:119:TRP:CZ2	2.15	1.28
1:A3:1261:TYR:CD2	3:A6:621:GLN:CG	1.92	1.28
2:A4:720:LEU:HD23	3:A6:495:ASP:N	1.49	1.28
2:A4:724:LEU:HB3	3:A6:496:THR:CG2	1.37	1.28
2:A4:727:ASN:ND2	3:A6:497:GLY:HA3	1.49	1.28
2:A4:727:ASN:CB	3:A6:497:GLY:HA2	1.63	1.28
2:A4:804:GLN:NE2	3:A6:317:GLY:O	1.66	1.28
2:A4:868:GLN:CG	6:D3:608:ILE:CD1	2.09	1.28
2:A4:891:GLY:O	3:A6:232:LEU:N	1.65	1.28
2:A4:898:LEU:CD1	4:B6:342:ARG:HB2	1.60	1.28
11:I1:919:ALA:CB	16:N1:389:PHE:CA	1.98	1.28
11:I1:980:ILE:CB	15:M1:618:GLN:O	1.80	1.28
11:I1:1039:ALA:N	20:R1:169:GLY:HA3	1.38	1.28
11:I2:1109:LEU:CG	17:O3:290:TYR:CE2	2.15	1.28
21:S1:668:ILE:CA	21:S2:1146:ALA:CB	2.07	1.28
23:U2:426:TYR:HB3	31:c4:463:HIS:CE1	1.69	1.28
26:X1:401:LYS:NZ	37:k2:450:HIS:HB3	1.49	1.28
28:Z1:407:GLY:O	30:b1:251:ILE:CD1	1.79	1.28
28:Z3:534:ASP:HB2	30:b3:183:LEU:N	1.48	1.28
1:A1:1197:ALA:CB	2:A2:728:LYS:NZ	1.95	1.28
2:A2:1125:LEU:CB	3:A5:132:ASP:O	1.80	1.28
1:A3:1261:TYR:CZ	3:A6:616:ALA:HB1	1.68	1.28
2:A4:691:LYS:CD	3:A6:316:ARG:CD	1.75	1.28
2:A4:718:GLU:HB3	3:A6:121:PRO:CG	1.63	1.28
2:A4:756:ALA:HA	3:A6:387:THR:O	1.12	1.28
2:A4:855:THR:HG21	3:A6:167:TRP:C	1.58	1.28
2:A4:886:PHE:C	3:A6:175:GLU:HB3	1.57	1.28
2:A4:975:GLU:CB	6:D3:501:LEU:CD1	2.06	1.28
3:A5:1091:VAL:CG1	11:I5:36:GLU:OE1	1.80	1.28
3:A5:1374:ALA:CB	28:Z2:824:PHE:N	1.93	1.28
3:A6:1415:PHE:HE1	28:Z4:996:LYS:CB	1.37	1.28
6:D7:530:ARG:C	11:I3:181:GLN:HB3	1.50	1.28
11:I1:947:LEU:CA	16:N1:407:ALA:HB1	1.61	1.28
11:I1:954:GLU:HB3	16:N1:403:VAL:N	0.95	1.28
11:I1:956:ILE:CG2	20:R1:166:LEU:CB	2.09	1.28
11:I2:980:ILE:HD11	20:R3:147:LEU:CA	1.63	1.28
11:I2:1049:LEU:O	17:O3:288:GLU:CA	1.80	1.28
23:U1:400:ASN:CG	31:c2:553:LEU:HD22	1.59	1.28
23:U2:394:ILE:HG23	31:c4:535:VAL:CA	1.64	1.28
23:U2:438:GLU:N	31:c4:428:ARG:NH2	1.81	1.28
26:X2:300:SER:OG	34:i:367:GLU:N	1.66	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:831:ALA:O	6:D3:298:ASN:HB2	1.14	1.27
1:A1:870:HIS:CG	6:D3:279:HIS:ND1	2.00	1.27
1:A3:1240:HIS:CE1	3:A6:118:SER:CA	2.17	1.27
1:A3:1249:PHE:HD2	3:A6:633:MET:CG	1.47	1.27
1:A3:1261:TYR:CE2	3:A6:621:GLN:HG3	1.69	1.27
2:A4:93:ASP:CA	3:A6:361:ASP:HB3	1.64	1.27
2:A4:689:LYS:CG	3:A6:396:ALA:HB2	1.48	1.27
2:A4:714:GLN:O	3:A6:492:SER:CB	1.79	1.27
2:A4:975:GLU:C	6:D3:496:LEU:CA	2.06	1.27
8:F1:1202:TYR:O	17:O2:252:VAL:CA	1.82	1.27
11:I1:837:MET:CE	17:O1:242:ARG:N	1.96	1.27
11:I1:881:ILE:C	17:O1:249:ARG:CD	1.77	1.27
11:I1:915:ALA:HB3	15:M1:582:THR:O	1.30	1.27
11:I1:945:LEU:CD2	17:O1:259:ASP:N	1.97	1.27
23:U2:413:ILE:H	31:c4:541:ARG:CB	1.44	1.27
23:U2:434:THR:CA	31:c4:460:LEU:HB3	1.65	1.27
28:Z4:534:ASP:CB	30:b4:183:LEU:H	1.47	1.27
1:A1:870:HIS:O	6:D3:279:HIS:HB3	1.25	1.27
1:A1:873:PRO:HB2	6:D3:218:LYS:NZ	1.46	1.27
2:A2:1156:ASP:HA	3:A5:166:LEU:O	1.32	1.27
1:A3:1388:ALA:CB	3:A6:224:PRO:O	1.70	1.27
2:A4:678:LEU:HD22	3:A6:431:PHE:CD2	1.68	1.27
2:A4:727:ASN:HD22	3:A6:497:GLY:CA	1.48	1.27
2:A4:760:LEU:CD2	3:A6:98:LEU:HB2	1.62	1.27
2:A4:890:ALA:HA	3:A6:175:GLU:CD	1.58	1.27
2:A4:918:CYS:SG	4:B6:342:ARG:CG	2.22	1.27
3:A6:1402:ASP:HB3	26:X4:743:PHE:O	1.15	1.27
8:F1:1265:GLN:O	17:O2:265:ASN:ND2	1.66	1.27
11:I1:877:ILE:CG2	17:O1:253:LEU:HB2	1.62	1.27
11:I1:916:ALA:N	15:M1:586:ASP:N	1.80	1.27
11:I1:922:ASP:O	15:M1:593:ALA:HB2	1.15	1.27
11:I1:956:ILE:CA	20:R1:166:LEU:HD22	1.61	1.27
11:I2:1058:GLY:C	17:O3:277:GLU:HA	1.49	1.27
11:I3:1267:LEU:CG	26:X1:497:ARG:NH1	1.96	1.27
11:I3:1277:LEU:CD2	26:X1:513:PHE:CB	2.13	1.27
11:I4:812:ASN:O	26:X3:497:ARG:HB3	1.13	1.27
15:M1:507:GLN:OE1	18:P1:318:PRO:CG	1.82	1.27
23:U1:405:GLU:C	31:c2:548:VAL:HG21	1.55	1.27
23:U2:394:ILE:HG12	31:c4:538:LEU:CB	1.63	1.27
23:U2:408:ASP:OD2	31:c4:544:VAL:HA	1.24	1.27
26:X2:283:ASP:C	34:i:479:THR:HA	1.59	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:407:GLY:O	30:b4:251:ILE:HD11	1.09	1.27
1:A1:1399:ARG:CG	2:A2:884:ARG:HG2	1.62	1.27
1:A3:1166:LEU:C	3:A6:594:LEU:HD23	1.48	1.27
1:A3:1250:PRO:O	3:A6:635:ARG:N	1.64	1.27
2:A4:577:ASP:HA	3:A6:453:SER:CB	1.64	1.27
2:A4:701:ILE:CG1	3:A6:466:ALA:N	1.94	1.27
2:A4:777:LEU:HG	3:A6:526:ILE:CA	1.56	1.27
2:A4:876:ARG:CG	6:D3:558:LYS:HA	1.61	1.27
2:A4:1149:THR:HA	5:C4:730:HIS:C	1.21	1.27
8:F1:1267:ARG:HG2	17:O2:265:ASN:O	1.12	1.27
11:I1:966:TRP:CE2	20:R1:165:SER:O	1.87	1.27
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG12	1.42	1.27
11:I1:1114:VAL:HG22	16:N1:432:TYR:O	1.30	1.27
11:I2:882:LYS:CB	17:O3:245:GLU:O	1.82	1.27
11:I2:951:LYS:HE3	16:N3:400:LEU:C	1.55	1.27
11:I2:1106:LYS:HB2	16:N3:440:GLU:OE2	1.13	1.27
23:U2:75:TRP:CZ3	31:c4:476:PRO:HD2	1.68	1.27
23:U2:75:TRP:CE2	31:c4:475:ALA:HB1	1.69	1.27
23:U2:398:ILE:CG1	31:c4:531:TRP:O	1.82	1.27
26:X2:321:ALA:CB	34:i:84:ARG:CD	2.07	1.27
26:X2:321:ALA:H	34:i:84:ARG:NE	1.29	1.27
26:X2:324:ILE:CG1	34:i:476:LEU:HD13	1.65	1.27
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:NE2	1.95	1.27
28:Z4:534:ASP:HB2	30:b4:183:LEU:N	1.48	1.27
28:Z4:742:GLU:CB	30:b4:135:ASN:ND2	1.97	1.27
2:A2:1139:ILE:O	3:A5:130:ILE:O	1.52	1.27
1:A3:1240:HIS:HE1	3:A6:118:SER:CA	1.45	1.27
2:A4:536:ALA:H	3:A6:369:SER:N	1.32	1.27
2:A4:643:ALA:N	3:A6:501:VAL:HG12	1.48	1.27
2:A4:879:LEU:N	6:D3:567:LEU:CD1	1.96	1.27
3:A6:136:GLU:C	6:D3:603:SER:HB2	1.42	1.27
6:D7:529:VAL:N	11:I3:181:GLN:NE2	1.75	1.27
11:I1:1013:GLU:C	16:N1:411:GLN:OE1	1.77	1.27
11:I1:1052:LEU:O	17:O1:286:ILE:HB	1.20	1.27
11:I2:947:LEU:HD22	17:O3:256:TYR:OH	1.20	1.27
11:I2:951:LYS:HD2	16:N3:403:VAL:N	1.47	1.27
11:I2:1031:ALA:CB	20:R3:168:LEU:HD22	1.64	1.27
21:S3:678:GLU:CB	21:S4:1141:GLU:C	2.08	1.27
24:V1:339:LEU:HD13	31:c1:627:ASP:C	1.58	1.27
26:X1:401:LYS:HB2	37:k2:450:HIS:CE1	1.67	1.27
28:Z1:742:GLU:CB	30:b1:135:ASN:ND2	1.97	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:523:ASP:CB	30:b2:238:ASN:HA	1.12	1.27
28:Z3:407:GLY:O	30:b3:251:ILE:HD11	1.09	1.27
28:Z3:534:ASP:CB	30:b3:183:LEU:H	1.47	1.27
1:A3:1124:ARG:H	3:A6:599:ARG:NH2	1.29	1.27
1:A3:1245:ASP:HB2	3:A6:588:SER:OG	1.14	1.27
2:A4:553:ASP:CG	3:A6:434:PHE:HA	1.16	1.27
2:A4:693:VAL:N	3:A6:316:ARG:HH12	1.08	1.27
2:A4:714:GLN:O	3:A6:492:SER:HB3	1.31	1.27
2:A4:823:VAL:HG11	3:A6:167:TRP:CZ2	1.70	1.27
2:A4:1149:THR:C	5:C4:730:HIS:O	1.76	1.27
11:I1:947:LEU:HD13	17:O1:256:TYR:OH	1.31	1.27
11:I1:950:LEU:HD22	16:N1:406:HIS:CG	1.70	1.27
11:I1:966:TRP:CD2	20:R1:165:SER:O	1.86	1.27
11:I2:840:LEU:HD22	17:O3:247:TRP:CG	1.67	1.27
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD1	1.65	1.27
17:O3:154:ARG:CD	18:P3:324:LEU:HD13	1.64	1.27
21:S1:655:ASN:N	21:S2:1156:ILE:C	1.91	1.27
22:T1:736:LEU:CG	31:c5:19:THR:HG21	1.64	1.27
22:T1:752:ALA:CA	31:c5:58:ARG:HD3	1.62	1.27
23:U2:34:ASP:CA	31:c4:558:GLU:OE1	1.80	1.27
23:U2:83:VAL:HG23	31:c4:557:HIS:CE1	1.54	1.27
26:X2:369:GLU:CD	34:i:428:LEU:CD2	1.98	1.27
28:Z1:551:THR:CG2	30:b1:233:TRP:CH2	2.17	1.27
28:Z4:401:THR:HB	30:b4:253:SER:C	0.85	1.27
1:A1:868:GLN:CA	6:D3:280:GLN:HG2	1.47	1.26
2:A2:869:ALA:HB2	6:D1:574:VAL:CG2	1.63	1.26
1:A3:1116:HIS:CG	3:A6:596:ARG:NH2	1.82	1.26
2:A4:672:ARG:HG2	3:A6:96:PRO:CB	1.65	1.26
2:A4:713:ILE:N	3:A6:462:LEU:HD11	1.48	1.26
2:A4:946:LYS:CB	4:B6:351:GLU:N	1.97	1.26
11:I1:880:MET:CE	17:O1:247:TRP:CE3	2.18	1.26
11:I2:1064:LYS:O	17:O3:274:GLY:HA2	1.13	1.26
11:I2:1066:LEU:C	16:N3:430:ARG:HG2	1.47	1.26
11:I4:819:MET:HB2	26:X3:501:LYS:NZ	1.48	1.26
23:U2:26:GLN:C	31:c4:488:LEU:O	1.68	1.26
23:U2:39:ILE:HD11	31:c4:553:LEU:O	1.28	1.26
23:U2:83:VAL:CG2	31:c4:557:HIS:HE1	1.24	1.26
23:U2:83:VAL:N	31:c4:557:HIS:CE1	2.01	1.26
24:V1:339:LEU:CD1	31:c1:627:ASP:OD1	1.82	1.26
26:X2:198:GLU:CG	34:i:335:HIS:O	1.83	1.26
28:Z1:407:GLY:O	30:b1:251:ILE:HD11	1.09	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:402:GLY:HA3	30:b3:254:SER:OG	1.18	1.26
2:A2:970:PHE:CG	6:D1:498:GLU:OE1	1.88	1.26
1:A3:1099:GLN:HG2	11:I2:1414:CYS:O	1.17	1.26
1:A3:1196:GLU:C	3:A6:609:GLU:CA	2.04	1.26
2:A4:540:GLN:O	3:A6:363:ALA:CB	1.82	1.26
2:A4:796:GLN:N	3:A6:249:SER:HB3	1.44	1.26
2:A4:978:ASP:CB	6:D3:476:VAL:CG2	2.12	1.26
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CA	1.98	1.26
9:G1:252:LEU:O	15:M2:602:MET:HG2	1.29	1.26
11:I1:1037:THR:CB	15:M1:624:ASN:HD21	1.47	1.26
11:I2:980:ILE:CD1	15:M3:622:VAL:CG2	2.12	1.26
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG21	1.10	1.26
22:T1:736:LEU:CG	31:c5:19:THR:CG2	2.12	1.26
23:U1:38:ILE:CG2	31:c2:473:THR:HG21	1.64	1.26
23:U2:45:ALA:HB2	31:c4:470:ARG:O	1.34	1.26
23:U2:415:THR:HB	31:c4:541:ARG:NH1	0.96	1.26
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HG13	1.33	1.26
2:A2:780:GLU:HB2	6:D1:677:GLN:O	1.28	1.26
2:A2:878:LEU:HD12	6:D1:608:ILE:CG2	1.57	1.26
2:A2:1148:ARG:C	5:C2:730:HIS:N	1.92	1.26
1:A3:1224:PRO:HB2	2:A4:727:ASN:O	1.09	1.26
2:A4:552:PHE:CZ	3:A6:109:ASP:OD2	1.88	1.26
2:A4:1148:ARG:C	5:C4:730:HIS:N	1.92	1.26
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CB	1.98	1.26
6:D3:743:HIS:CD2	11:I2:1528:ARG:HD2	1.69	1.26
11:I1:882:LYS:N	17:O1:249:ARG:CB	1.95	1.26
11:I1:976:ARG:N	20:R1:149:ARG:CG	1.98	1.26
11:I2:840:LEU:HD22	17:O3:247:TRP:CD1	1.69	1.26
11:I2:880:MET:O	17:O3:246:LEU:HD23	1.33	1.26
11:I2:885:GLU:CA	16:N3:397:GLU:CG	2.13	1.26
11:I2:1031:ALA:H	20:R3:173:LEU:CA	1.45	1.26
11:I2:1054:ILE:N	17:O3:282:LYS:N	1.65	1.26
11:I3:1267:LEU:HB2	26:X1:497:ARG:CZ	1.59	1.26
21:S3:678:GLU:CB	21:S4:1141:GLU:CA	2.13	1.26
23:U1:22:PHE:O	31:c2:563:ARG:HD2	1.22	1.26
23:U1:139:VAL:HB	31:c1:635:SER:OG	1.16	1.26
23:U2:432:TYR:CD1	31:c4:464:LEU:CD1	2.18	1.26
26:X1:401:LYS:HD2	37:k2:450:HIS:ND1	1.48	1.26
26:X2:283:ASP:CG	34:i:479:THR:CG2	1.98	1.26
26:X2:309:LEU:HD23	34:i:396:HIS:O	1.13	1.26
28:Z2:407:GLY:O	30:b2:251:ILE:CD1	1.79	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:401:THR:O	30:b3:254:SER:HB3	1.27	1.26
28:Z3:531:LYS:HD2	30:b3:182:PRO:O	1.27	1.26
28:Z4:394:ASP:OD2	30:b4:241:PRO:HA	1.08	1.26
28:Z4:535:ILE:CG1	30:b4:182:PRO:CB	2.14	1.26
2:A2:870:HIS:NE2	6:D1:566:PHE:CD1	2.03	1.26
1:A3:1123:GLU:CG	3:A6:599:ARG:HD3	1.65	1.26
1:A3:1163:TYR:CD1	3:A6:648:TYR:HB3	1.56	1.26
1:A3:1194:HIS:ND1	3:A6:552:PHE:CE2	2.04	1.26
1:A3:1198:GLU:C	2:A4:729:SER:O	1.75	1.26
1:A3:1223:GLU:O	3:A6:496:THR:HA	1.11	1.26
1:A3:1237:LEU:HB3	3:A6:597:GLU:CG	1.64	1.26
1:A3:1277:TRP:HB3	3:A6:556:PRO:CD	1.65	1.26
2:A4:682:ARG:CB	3:A6:431:PHE:CZ	1.86	1.26
2:A4:921:VAL:HG22	3:A6:175:GLU:OE2	1.27	1.26
8:F1:1264:ARG:NH1	17:O2:263:GLN:O	1.69	1.26
11:I1:946:THR:CA	17:O1:257:ALA:HA	1.65	1.26
11:I1:956:ILE:HG23	20:R1:166:LEU:CB	1.62	1.26
11:I2:966:TRP:C	20:R3:153:GLN:HB3	1.60	1.26
11:I2:977:ASN:CB	20:R3:150:ASN:CB	1.88	1.26
22:T1:752:ALA:CA	31:c5:58:ARG:HE	1.36	1.26
23:U1:19:LEU:CB	31:c2:470:ARG:HB2	1.63	1.26
23:U1:440:ASP:OD1	31:c2:462:HIS:HB2	1.13	1.26
23:U2:433:ALA:O	31:c4:540:HIS:NE2	1.67	1.26
23:U2:435:PHE:CE2	31:c4:535:VAL:HG13	1.67	1.26
28:Z1:401:THR:HB	30:b1:253:SER:C	0.85	1.26
28:Z1:535:ILE:CG1	30:b1:182:PRO:CB	2.14	1.26
2:A2:977:VAL:CA	6:D1:496:LEU:HD12	1.53	1.26
1:A3:1124:ARG:NH2	3:A6:598:VAL:C	1.86	1.26
1:A3:1236:GLN:CD	3:A6:578:ILE:HA	1.59	1.26
1:A3:1237:LEU:CD2	3:A6:119:TRP:HE1	1.40	1.26
1:A3:1261:TYR:HD1	3:A6:621:GLN:CA	1.48	1.26
2:A4:691:LYS:HZ3	3:A6:330:LEU:C	1.39	1.26
2:A4:721:ARG:C	3:A6:572:ARG:HH22	1.35	1.26
2:A4:769:GLU:O	3:A6:528:ILE:HG21	1.33	1.26
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CB	1.65	1.26
11:I1:846:ILE:CD1	15:M1:594:LYS:HB2	1.59	1.26
11:I1:947:LEU:CB	17:O1:256:TYR:CE2	2.07	1.26
11:I1:947:LEU:HB2	17:O1:256:TYR:CE2	1.51	1.26
11:I1:955:LYS:CE	16:N1:397:GLU:HA	1.66	1.26
11:I2:957:SER:CA	20:R3:167:GLN:O	1.82	1.26
11:I2:1106:LYS:O	16:N3:440:GLU:CA	1.78	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:658:SER:O	21:S2:1105:LEU:HD11	1.26	1.26
24:V1:339:LEU:HD12	31:c1:627:ASP:OD1	1.35	1.26
26:X2:297:LYS:CG	34:i:446:LYS:CE	2.08	1.26
26:X2:301:SER:N	34:i:334:TYR:C	1.94	1.26
28:Z2:401:THR:O	30:b2:254:SER:HB3	1.27	1.26
28:Z2:534:ASP:CB	30:b2:183:LEU:H	1.47	1.26
28:Z3:528:ILE:HG13	30:b3:210:ARG:NH1	1.37	1.26
1:A3:1224:PRO:HB3	3:A6:500:LYS:CB	1.61	1.25
1:A3:1255:LEU:N	3:A6:634:ASP:HB3	1.49	1.25
1:A3:1279:ILE:CA	3:A6:625:LEU:CA	1.82	1.25
2:A4:542:LEU:CD2	3:A6:364:HIS:HD1	1.32	1.25
2:A4:553:ASP:CG	3:A6:434:PHE:CA	1.90	1.25
2:A4:701:ILE:CD1	3:A6:466:ALA:N	1.97	1.25
2:A4:767:ILE:CA	3:A6:470:ARG:HA	1.51	1.25
2:A4:818:LEU:O	3:A6:147:LEU:CB	1.84	1.25
2:A4:889:VAL:CG1	3:A6:171:HIS:CG	2.18	1.25
3:A5:1388:ALA:O	28:Z2:867:LYS:CA	1.70	1.25
3:A6:132:ASP:CG	6:D3:607:PRO:CD	2.07	1.25
9:G1:253:SER:OG	15:M2:601:ASP:CB	1.83	1.25
9:G1:253:SER:OG	15:M2:601:ASP:HB3	1.33	1.25
11:I1:882:LYS:CB	17:O1:245:GLU:HB3	1.63	1.25
11:I1:923:GLY:CA	15:M1:592:LEU:N	1.98	1.25
11:I1:946:THR:CB	17:O1:260:LEU:HD23	1.57	1.25
11:I2:882:LYS:HB2	17:O3:245:GLU:O	1.18	1.25
11:I2:1015:TYR:HB3	16:N3:412:ASN:OD1	1.19	1.25
11:I2:1045:PHE:C	15:M3:619:ILE:CD1	2.09	1.25
17:O1:104:ASP:OD2	18:P1:322:LYS:HE3	1.11	1.25
17:O4:107:THR:CG2	18:P4:321:ILE:HD12	1.64	1.25
21:S1:671:ALA:H	21:S2:1146:ALA:N	1.34	1.25
21:S1:678:GLU:HA	21:S2:1127:GLN:CG	1.40	1.25
23:U1:431:ILE:CG1	31:c2:469:SER:OG	1.84	1.25
23:U2:38:ILE:C	31:c4:559:ILE:HG13	1.25	1.25
23:U2:404:VAL:HG12	31:c4:544:VAL:N	1.28	1.25
23:U2:431:ILE:CB	31:c4:464:LEU:CB	2.14	1.25
26:X2:313:LEU:HA	34:i:471:ILE:CG2	1.65	1.25
26:X2:318:GLY:HA2	34:i:475:ILE:CG2	1.63	1.25
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:NE2	1.95	1.25
2:A2:986:THR:CG2	6:D1:504:LYS:CD	1.96	1.25
1:A3:1221:ILE:HD13	2:A4:641:ALA:O	1.12	1.25
2:A4:543:GLY:O	3:A6:362:PHE:O	1.53	1.25
2:A4:720:LEU:N	3:A6:493:ALA:O	1.69	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:819:VAL:CG1	3:A6:149:LEU:HG	1.66	1.25
3:A5:1024:ASP:HB2	11:I5:94:GLU:O	1.28	1.25
3:A6:1368:GLN:OE1	28:Z4:878:HIS:CB	1.84	1.25
3:A6:1403:MSE:HG3	26:X4:742:ALA:O	1.15	1.25
9:G1:270:ARG:HB3	16:N2:414:ALA:O	1.08	1.25
11:I1:885:GLU:CA	16:N1:397:GLU:CD	2.04	1.25
11:I1:896:PRO:N	17:O1:233:THR:HA	1.51	1.25
11:I2:961:ARG:NH2	16:N3:388:LYS:O	1.61	1.25
11:I2:1035:GLN:O	15:M3:623:LEU:HD23	1.32	1.25
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD11	1.66	1.25
11:I3:777:SER:HB2	29:a2:40[A]:GLU:CG	1.66	1.25
11:I5:1279:THR:CG2	26:X2:520:GLU:C	2.09	1.25
23:U2:391:HIS:NE2	31:c4:477:GLU:O	1.68	1.25
26:X2:300:SER:OG	34:i:367:GLU:CA	1.83	1.25
28:Z3:394:ASP:OD2	30:b3:241:PRO:HA	1.08	1.25
1:A1:832:ASN:OD1	6:D3:298:ASN:CA	1.83	1.25
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HG13	0.92	1.25
2:A2:870:HIS:NE2	6:D1:566:PHE:HD1	1.33	1.25
1:A3:1332:ARG:O	6:D3:637:LYS:HD3	1.21	1.25
2:A4:678:LEU:O	3:A6:431:PHE:CE1	1.88	1.25
2:A4:692:VAL:CG1	3:A6:466:ALA:O	1.84	1.25
1:A3:1223:GLU:CB	2:A4:676:LEU:CD1	2.08	1.25
2:A4:757:LEU:CB	3:A6:544:PHE:N	1.86	1.25
2:A4:793:SER:HB3	3:A6:146:LYS:CE	1.65	1.25
2:A4:879:LEU:CD1	6:D3:564:ASN:CG	2.08	1.25
3:A6:136:GLU:OE2	6:D3:603:SER:N	1.67	1.25
11:I1:849:LEU:CD1	17:O1:247:TRP:CE3	2.19	1.25
11:I2:1048:GLU:O	17:O3:287:LEU:HB3	1.14	1.25
28:Z3:742:GLU:CB	30:b3:135:ASN:ND2	1.97	1.25
28:Z4:401:THR:O	30:b4:254:SER:CB	1.84	1.25
2:A4:973:GLU:O	6:D3:499:LEU:HD21	1.23	1.25
3:A5:233:THR:C	5:C2:738:ASP:N	1.87	1.25
11:I1:883:ALA:CB	17:O1:243:LEU:C	2.08	1.25
11:I1:987:GLY:H	15:M1:613:ASP:CA	1.47	1.25
11:I1:1051:LYS:CE	17:O1:289:ASP:H	1.47	1.25
11:I2:967:SER:OG	15:M3:625:GLY:HA2	1.19	1.25
21:S1:677:TYR:O	21:S2:1127:GLN:HB3	1.30	1.25
23:U2:39:ILE:O	31:c4:474:ASN:C	1.80	1.25
28:Z2:528:ILE:O	30:b2:184:SER:CB	1.82	1.25
2:A2:876:ARG:HD2	6:D1:558:LYS:CB	1.65	1.25
2:A2:1151:THR:O	3:A5:175:GLU:HG2	1.31	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1163:TYR:HD1	3:A6:648:TYR:CA	1.40	1.25
1:A3:1170:ILE:HA	3:A6:591:ASP:N	1.32	1.25
1:A3:1224:PRO:HB2	3:A6:548:LEU:CD1	1.65	1.25
2:A4:86:ASN:HB2	3:A6:393:HIS:CB	1.66	1.25
2:A4:780:GLU:CA	6:D3:679:ILE:CD1	2.04	1.25
2:A4:824:ASN:O	3:A6:138:LEU:HD12	1.22	1.25
2:A4:861:GLN:CA	6:D3:607:PRO:HD3	1.67	1.25
3:A5:998:SER:HB3	11:I5:62:GLU:OE1	1.31	1.25
3:A6:444:ARG:N	6:D3:737:PHE:HE2	1.33	1.25
3:A6:1391:ARG:HB2	28:Z4:908:LEU:O	1.12	1.25
8:F1:1205:TRP:CG	17:O2:254:ARG:CD	2.19	1.25
9:G1:254:ASN:O	15:M2:606:LEU:CB	1.84	1.25
11:I1:957:SER:O	20:R1:168:LEU:HD21	1.24	1.25
11:I1:976:ARG:CZ	15:M1:622:VAL:CG1	2.13	1.25
11:I1:977:ASN:OD1	15:M1:621:ARG:HB3	1.35	1.25
11:I1:1669:ARG:N	11:I2:1664:PHE:CE2	1.97	1.25
11:I1:1669:ARG:CD	11:I2:1605:LEU:HD13	1.67	1.25
11:I2:900:ARG:N	17:O3:232:LYS:HG2	0.92	1.25
11:I2:1029:LEU:N	20:R3:173:LEU:H	1.34	1.25
11:I2:1029:LEU:CD1	16:N3:433:GLU:CD	2.08	1.25
11:I2:1034:ASP:CB	15:M3:630:LEU:HD13	1.65	1.25
22:T1:736:LEU:HD12	31:c5:19:THR:OG1	1.24	1.25
22:T1:812:ASP:CG	31:c5:88:GLU:HB2	1.60	1.25
23:U2:404:VAL:HG12	31:c4:543:ALA:CA	1.67	1.25
28:Z2:534:ASP:HB2	30:b2:183:LEU:N	1.48	1.25
1:A3:1236:GLN:HB3	3:A6:118:SER:CB	1.67	1.25
1:A3:1278:PRO:CG	3:A6:624:ASP:CB	2.10	1.25
1:A3:1393:THR:HB	3:A6:227:SER:C	1.60	1.25
2:A4:92:ASP:OD1	3:A6:105:GLY:N	1.66	1.25
2:A4:675:ALA:CB	3:A6:508:LEU:HB3	1.67	1.25
2:A4:886:PHE:CA	3:A6:175:GLU:N	1.98	1.25
2:A4:896:ALA:C	3:A6:165:PHE:HA	1.61	1.25
11:I2:1024:PHE:CB	16:N3:406:HIS:CG	2.18	1.25
11:I3:1275:SER:HB3	26:X1:522:MET:C	1.62	1.25
26:X2:192:LEU:N	34:i:443:THR:HG21	1.51	1.25
1:A3:1230:TYR:CE1	3:A6:610:THR:HA	1.02	1.24
1:A3:1244:LEU:CA	3:A6:633:MET:HE1	1.65	1.24
1:A3:1325:MET:HE2	3:A6:126:ARG:CD	1.52	1.24
1:A3:1391:ARG:O	3:A6:227:SER:OG	1.52	1.24
2:A4:533:ALA:CB	3:A6:370:PRO:HG3	1.64	1.24
2:A4:736:PRO:CA	3:A6:685:ARG:NH1	1.82	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:761:GLN:HB2	3:A6:535:PHE:CE1	1.70	1.24
2:A4:805:LEU:CD1	3:A6:469:PHE:CD2	2.19	1.24
2:A4:861:GLN:C	3:A6:132:ASP:HB2	1.39	1.24
3:A5:1369:ILE:HG23	28:Z2:827:GLN:O	1.34	1.24
9:G1:252:LEU:O	15:M2:602:MET:CG	1.84	1.24
11:I1:833:PHE:CE2	17:O1:238:ALA:C	2.10	1.24
11:I1:837:MET:CE	17:O1:242:ARG:HB2	1.67	1.24
11:I1:924:ILE:O	15:M1:597:LYS:N	1.68	1.24
11:I1:1028:CYS:SG	20:R1:169:GLY:O	1.96	1.24
11:I1:1066:LEU:H	16:N1:430:ARG:CG	1.47	1.24
11:I1:1739:GLU:O	11:I2:1604:ALA:HA	1.07	1.24
11:I2:877:ILE:HG13	17:O3:254:ARG:CG	1.64	1.24
11:I2:920:PHE:C	15:M3:592:LEU:CA	1.96	1.24
11:I2:1048:GLU:HB3	17:O3:284:LYS:O	1.33	1.24
11:I4:1282:PHE:CG	29:a3:24[B]:GLY:N	2.04	1.24
11:I4:1282:PHE:CZ	29:a3:24[B]:GLY:N	2.03	1.24
11:I5:1279:THR:HG23	26:X2:520:GLU:CB	1.66	1.24
17:O3:162:LYS:N	18:P3:315:GLU:CD	1.94	1.24
21:S1:597:ILE:CA	21:S2:1120:PRO:HD3	1.64	1.24
22:T1:816:LYS:HE2	31:c5:85:ARG:NH2	1.48	1.24
22:T1:824:VAL:CG2	31:c5:54:ASN:O	1.83	1.24
28:Z1:394:ASP:OD2	30:b1:241:PRO:CA	1.85	1.24
28:Z2:401:THR:O	30:b2:254:SER:CB	1.84	1.24
28:Z2:531:LYS:HD2	30:b2:182:PRO:O	1.27	1.24
28:Z2:742:GLU:CB	30:b2:135:ASN:ND2	1.97	1.24
2:A4:805:LEU:CD1	3:A6:469:PHE:CG	2.11	1.24
2:A4:865:ALA:O	6:D3:598:ILE:HD11	1.08	1.24
2:A4:908:LEU:HD23	6:D3:601:PHE:CB	1.66	1.24
2:A4:983:LEU:HD22	6:D3:497:PHE:CE1	1.71	1.24
2:A4:1149:THR:N	5:C4:730:HIS:N	1.85	1.24
3:A6:444:ARG:O	6:D3:719:LEU:CA	1.86	1.24
11:I1:987:GLY:CA	15:M1:611:LYS:HG2	1.66	1.24
11:I2:1042:LEU:O	16:N3:430:ARG:CZ	1.86	1.24
11:I3:1267:LEU:HD23	26:X1:497:ARG:NH2	1.45	1.24
23:U2:407:VAL:C	31:c4:542:LYS:HA	1.59	1.24
23:U2:431:ILE:CD1	31:c4:464:LEU:O	1.83	1.24
23:U2:438:GLU:N	31:c4:195:ILE:CD1	1.99	1.24
26:X2:197:VAL:HG11	34:i:366:PHE:CE2	1.66	1.24
26:X2:297:LYS:CD	34:i:446:LYS:CE	2.14	1.24
26:X2:368:LEU:N	34:i:441:LEU:HD23	1.51	1.24
28:Z1:534:ASP:CB	30:b1:183:LEU:H	1.47	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1159:ASP:HB3	3:A5:176:LEU:O	1.08	1.24
1:A3:1166:LEU:HA	3:A6:594:LEU:CB	1.54	1.24
1:A3:1233:GLN:HB3	3:A6:601:PHE:CE1	1.72	1.24
1:A3:1236:GLN:CB	3:A6:118:SER:HB2	1.66	1.24
1:A3:1248:ILE:HD13	3:A6:640:LEU:CD1	1.66	1.24
1:A3:1324:ASP:OD2	3:A6:126:ARG:HD2	1.37	1.24
2:A4:537:ALA:N	3:A6:368:SER:CA	1.80	1.24
2:A4:712:THR:N	3:A6:462:LEU:HD21	1.52	1.24
2:A4:761:GLN:OE1	3:A6:547:GLU:CG	1.86	1.24
2:A4:818:LEU:O	3:A6:147:LEU:HB2	1.14	1.24
2:A4:954:ILE:N	4:B6:345:LYS:HA	1.51	1.24
3:A5:177:ILE:HD13	5:C2:736:ASN:O	1.37	1.24
3:A6:132:ASP:OD2	6:D3:607:PRO:N	1.66	1.24
3:A6:137:HIS:N	6:D3:603:SER:HB2	1.48	1.24
11:I1:923:GLY:N	15:M1:589:GLY:O	1.69	1.24
11:I1:924:ILE:CG1	15:M1:596:ILE:HG13	1.67	1.24
11:I1:1021:ILE:CD1	16:N1:410:MET:CB	2.15	1.24
11:I1:1037:THR:CB	15:M1:624:ASN:ND2	2.01	1.24
11:I2:945:LEU:HD13	17:O3:255:GLY:O	1.23	1.24
11:I2:1029:LEU:CD1	16:N3:433:GLU:CG	2.16	1.24
11:I2:1055:GLU:O	17:O3:278:GLU:CA	1.84	1.24
21:S1:796:ASN:CB	31:c4:408:ASN:OD1	1.86	1.24
23:U2:39:ILE:CA	31:c4:474:ASN:O	1.80	1.24
26:X2:367:SER:O	34:i:441:LEU:CD2	1.85	1.24
28:Z1:528:ILE:HG13	30:b1:210:ARG:NH1	1.37	1.24
28:Z1:555:LYS:HE3	30:b1:216:LEU:CD2	1.63	1.24
28:Z2:535:ILE:CG1	30:b2:182:PRO:CB	2.14	1.24
28:Z4:551:THR:HG22	30:b4:233:TRP:CH2	1.71	1.24
2:A2:1137:ALA:HB1	3:A5:564:ASN:CB	1.64	1.24
2:A4:602:ILE:HG12	3:A6:506:SER:OG	1.38	1.24
2:A4:689:LYS:CD	3:A6:336:ILE:CD1	1.82	1.24
2:A4:729:SER:CA	3:A6:678:LEU:HD21	1.68	1.24
2:A4:769:GLU:O	3:A6:528:ILE:HD13	1.14	1.24
2:A4:778:PHE:N	3:A6:481:ARG:HH11	1.26	1.24
2:A4:789:LEU:N	3:A6:144:PHE:CD1	1.75	1.24
3:A5:1029:ILE:HG23	11:I5:70:GLU:N	0.93	1.24
3:A5:1093:THR:CG2	11:I5:37:GLU:OE2	1.73	1.24
3:A5:1365:VAL:CA	28:Z2:841:ALA:HB1	1.56	1.24
11:I1:841:PHE:CE2	17:O1:243:LEU:CD1	2.19	1.24
11:I1:939:ASN:O	17:O1:265:ASN:HB2	1.27	1.24
11:I1:992:ILE:N	15:M1:608:LYS:CG	1.88	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1032:THR:N	20:R1:176:ARG:C	1.78	1.24
11:I2:950:LEU:CD2	16:N3:410:MET:CE	2.14	1.24
23:U1:401:PRO:CB	31:c2:551:LEU:O	1.81	1.24
23:U1:406:GLU:N	31:c2:548:VAL:HG21	0.92	1.24
23:U1:431:ILE:CD1	31:c2:469:SER:CB	2.16	1.24
23:U2:34:ASP:OD1	31:c4:561:THR:CG2	1.84	1.24
23:U2:75:TRP:CZ3	31:c4:476:PRO:CD	2.21	1.24
26:X2:365:ILE:CB	34:i:421:ILE:O	1.76	1.24
28:Z2:551:THR:CG2	30:b2:233:TRP:CH2	2.17	1.24
28:Z3:535:ILE:CG1	30:b3:182:PRO:CB	2.14	1.24
1:A1:874:VAL:CG2	6:D3:272:VAL:HG12	1.66	1.24
2:A2:989:MSE:HE1	6:D1:241:ALA:N	1.50	1.24
2:A2:1147:ILE:O	3:A5:172:PRO:CB	1.86	1.24
1:A3:1189:LEU:HD23	3:A6:644:ALA:CB	1.66	1.24
1:A3:1201:ARG:HG3	3:A6:549:ALA:N	1.50	1.24
1:A3:1202:GLU:HG2	3:A6:91:LEU:CB	1.68	1.24
2:A4:635:ARG:CZ	3:A6:600:LYS:CA	2.16	1.24
2:A4:682:ARG:NH2	3:A6:104:PRO:C	1.95	1.24
2:A4:770:GLY:HA2	3:A6:469:PHE:CD2	1.51	1.24
2:A4:869:ALA:N	6:D3:570:VAL:CG1	1.93	1.24
2:A4:890:ALA:HA	3:A6:175:GLU:OE2	1.35	1.24
2:A4:973:GLU:O	6:D3:499:LEU:CD2	1.83	1.24
2:A4:985:ALA:O	6:D3:500:LYS:HD3	1.06	1.24
5:C1:732:LYS:HE2	11:I1:1228:GLU:CG	1.68	1.24
8:F1:1262:HIS:CD2	17:O2:259:ASP:OD1	1.91	1.24
8:F2:1090:PRO:CG	17:O4:245:GLU:OE2	1.83	1.24
11:I1:846:ILE:C	15:M1:594:LYS:HD2	1.41	1.24
11:I1:953:LEU:N	16:N1:403:VAL:HG21	1.13	1.24
11:I2:880:MET:SD	17:O3:250:LEU:CD2	2.22	1.24
11:I2:1059:PRO:HB3	17:O3:273:ASP:O	1.32	1.24
17:O3:162:LYS:H	18:P3:315:GLU:CD	1.42	1.24
23:U2:82:LEU:C	31:c4:557:HIS:NE2	1.94	1.24
26:X2:363:TYR:O	34:i:403:SER:HB2	1.19	1.24
28:Z2:394:ASP:OD2	30:b2:241:PRO:CA	1.85	1.24
28:Z2:401:THR:HB	30:b2:253:SER:C	0.85	1.24
28:Z2:554:PHE:CD1	30:b2:232:PRO:HG2	1.72	1.24
28:Z3:551:THR:HG22	30:b3:233:TRP:CH2	1.71	1.24
28:Z3:555:LYS:HE3	30:b3:216:LEU:CD2	1.63	1.24
2:A2:982:THR:HG21	6:D1:494:LEU:O	1.10	1.23
1:A3:1233:GLN:HA	3:A6:578:ILE:CA	1.59	1.23
1:A3:1318:TRP:CZ2	3:A6:624:ASP:CG	2.15	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:714:GLN:O	3:A6:492:SER:CA	1.86	1.23
2:A4:767:ILE:C	3:A6:476:PHE:CA	2.10	1.23
2:A4:772:SER:C	3:A6:489:LEU:HD11	1.60	1.23
2:A4:805:LEU:HD13	3:A6:469:PHE:CG	1.32	1.23
8:F1:1266:MET:CG	17:O2:262:ASP:OD2	1.85	1.23
11:I1:950:LEU:CB	16:N1:407:ALA:N	1.93	1.23
11:I2:888:GLU:N	16:N3:393:ILE:HG21	1.45	1.23
11:I2:890:TYR:H	17:O3:242:ARG:NE	1.30	1.23
11:I2:925:LEU:O	20:R3:155:GLU:HA	1.35	1.23
23:U2:21:GLU:O	31:c4:486:VAL:HB	1.09	1.23
23:U2:438:GLU:H	31:c4:195:ILE:CD1	1.49	1.23
26:X2:308:ASN:ND2	34:i:315:LEU:HD21	1.52	1.23
28:Z1:401:THR:O	30:b1:254:SER:CB	1.84	1.23
28:Z1:522:ASN:H	30:b1:241:PRO:CG	1.29	1.23
28:Z2:394:ASP:OD2	30:b2:241:PRO:HA	1.08	1.23
28:Z2:523:ASP:HB2	30:b2:238:ASN:CA	1.13	1.23
28:Z2:525:LEU:C	30:b2:208:ASN:HD21	1.46	1.23
28:Z3:401:THR:O	30:b3:254:SER:CB	1.84	1.23
28:Z3:528:ILE:O	30:b3:184:SER:CB	1.82	1.23
28:Z4:394:ASP:OD2	30:b4:241:PRO:CA	1.85	1.23
2:A2:781:ARG:NE	6:D1:673:ARG:HB3	1.51	1.23
2:A2:827:ILE:C	2:A2:863:GLN:HB2	1.52	1.23
2:A2:864:ARG:O	6:D1:608:ILE:CG1	1.86	1.23
2:A2:1149:THR:N	5:C2:730:HIS:N	1.85	1.23
1:A3:1265:ASN:CG	3:A6:683:LEU:HD11	1.59	1.23
2:A4:670:SER:OG	3:A6:542:LEU:CD2	1.86	1.23
2:A4:757:LEU:HB2	3:A6:544:PHE:N	1.30	1.23
2:A4:852:ASP:N	3:A6:170:THR:H	1.03	1.23
3:A5:1026:PRO:HD2	11:I5:66:LEU:CD2	1.68	1.23
3:A5:1392:ARG:HG2	28:Z2:866:GLU:O	1.32	1.23
3:A5:1392:ARG:CG	28:Z2:866:GLU:O	1.86	1.23
8:F1:1137:GLN:CB	17:O2:244:GLU:O	1.86	1.23
11:I1:928:LEU:CD2	20:R1:154:ALA:O	1.83	1.23
11:I1:980:ILE:HA	15:M1:617:THR:O	1.37	1.23
11:I1:980:ILE:HB	15:M1:618:GLN:O	1.10	1.23
11:I1:1029:LEU:HB3	20:R1:174:ARG:CB	1.52	1.23
11:I1:1604:ALA:CA	11:I2:1739:GLU:C	2.06	1.23
11:I2:879:VAL:O	17:O3:246:LEU:C	1.80	1.23
23:U2:434:THR:N	31:c4:461:PHE:CG	1.79	1.23
26:X2:361:LEU:HD21	34:i:441:LEU:CD1	1.66	1.23
28:Z3:401:THR:HB	30:b3:253:SER:C	0.85	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1196:GLU:N	3:A6:612:ALA:CB	2.00	1.23
1:A3:1259:CYS:SG	3:A6:624:ASP:N	2.11	1.23
1:A3:1277:TRP:O	3:A6:625:LEU:HD21	1.07	1.23
1:A3:1393:THR:HB	3:A6:227:SER:O	1.14	1.23
2:A4:717:VAL:HA	3:A6:512:GLU:OE1	1.23	1.23
2:A4:823:VAL:CG1	3:A6:167:TRP:CZ2	2.21	1.23
2:A4:972:GLY:CA	6:D3:204:ASN:OD1	1.82	1.23
2:A4:974:PRO:HA	6:D3:499:LEU:CD1	1.68	1.23
3:A5:1365:VAL:CA	28:Z2:841:ALA:HB3	1.58	1.23
11:I1:919:ALA:CB	16:N1:389:PHE:O	1.86	1.23
11:I1:976:ARG:HH12	15:M1:622:VAL:CB	1.52	1.23
11:I1:1066:LEU:N	16:N1:430:ARG:CG	1.97	1.23
11:I2:889:THR:CB	17:O3:242:ARG:HD3	1.53	1.23
11:I2:955:LYS:N	16:N3:403:VAL:CG2	2.00	1.23
11:I2:965:ALA:CB	20:R3:164:PRO:HA	1.66	1.23
11:I2:1054:ILE:O	17:O3:281:ALA:CB	1.86	1.23
23:U1:176:GLU:CD	31:c1:505:SER:HB2	1.63	1.23
23:U1:399:ILE:CG1	31:c2:556:GLN:NE2	1.86	1.23
26:X2:195:GLN:HB3	34:i:364:TYR:OH	1.34	1.23
26:X2:292:LEU:O	34:i:448:PHE:CE2	1.91	1.23
26:X2:329:ARG:CD	34:i:476:LEU:CG	2.03	1.23
2:A2:224:PRO:CD	6:D1:709:ARG:HH12	1.50	1.23
1:A3:1091:VAL:CG2	6:D3:808:ASN:H	1.50	1.23
1:A3:1253:SER:HB2	3:A6:635:ARG:CB	1.66	1.23
1:A3:1325:MET:CE	3:A6:126:ARG:CD	2.08	1.23
2:A4:536:ALA:C	3:A6:369:SER:N	1.95	1.23
2:A4:768:SER:CA	3:A6:476:PHE:C	2.12	1.23
2:A4:775:LEU:CG	3:A6:479:VAL:HA	1.62	1.23
2:A4:876:ARG:HD3	6:D3:565:MET:CG	1.69	1.23
2:A4:898:LEU:HD11	4:B6:342:ARG:CB	1.69	1.23
2:A4:973:GLU:CA	6:D3:205:LEU:HB3	1.50	1.23
2:A4:986:THR:CB	6:D3:504:LYS:CD	2.09	1.23
11:I1:846:ILE:CG2	17:O1:247:TRP:CZ2	2.20	1.23
11:I1:1045:PHE:CZ	16:N1:431:VAL:O	1.92	1.23
11:I1:1054:ILE:O	17:O1:278:GLU:O	1.54	1.23
11:I2:949:CYS:SG	15:M3:602:MET:HE1	1.79	1.23
11:I2:995:SER:N	17:O3:267:ALA:O	1.70	1.23
11:I2:1031:ALA:N	20:R3:173:LEU:HA	1.46	1.23
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG11	1.50	1.23
11:I3:1272:TYR:C	26:X1:526:CYS:H	1.12	1.23
22:T1:824:VAL:HG21	31:c5:54:ASN:O	1.10	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:406:GLU:N	31:c2:548:VAL:CG2	1.74	1.23
23:U2:40:ARG:NH1	31:c4:560:ASN:HB2	1.52	1.23
28:Z1:554:PHE:CD1	30:b1:232:PRO:HG2	1.72	1.23
1:A1:1224:PRO:CG	2:A2:731:ILE:HD13	1.69	1.23
2:A2:865:ALA:N	6:D1:607:PRO:HD2	1.52	1.23
2:A2:867:GLU:OE2	6:D1:609:ILE:HG13	1.29	1.23
1:A3:1318:TRP:CZ2	3:A6:624:ASP:OD2	1.91	1.23
2:A4:778:PHE:N	6:D3:678:GLY:HA3	1.40	1.23
2:A4:886:PHE:CZ	3:A6:176:LEU:CG	2.22	1.23
2:A4:976:LEU:CD1	6:D3:472:PHE:HE2	1.48	1.23
6:D7:527:ASN:O	11:I3:181:GLN:CG	1.85	1.23
11:I1:883:ALA:HB2	17:O1:243:LEU:O	1.16	1.23
11:I2:963:LEU:C	20:R3:165:SER:OG	1.81	1.23
11:I2:983:LEU:CA	15:M3:612:PRO:O	1.85	1.23
11:I3:1273:GLU:HG2	26:X1:535:ALA:CB	1.69	1.23
21:S1:654:LYS:O	21:S2:1154:GLY:HA2	1.37	1.23
23:U2:78:VAL:O	31:c4:553:LEU:CD1	1.85	1.23
23:U2:83:VAL:HA	31:c4:557:HIS:CE1	1.66	1.23
28:Z2:407:GLY:O	30:b2:251:ILE:HD11	1.09	1.23
28:Z2:555:LYS:HE3	30:b2:216:LEU:CD2	1.63	1.23
2:A2:1144:ASP:C	3:A5:129:ASN:ND2	1.97	1.22
1:A3:1021:LEU:HD13	6:D3:816:VAL:C	1.62	1.22
2:A4:701:ILE:CD1	3:A6:466:ALA:CB	2.17	1.22
2:A4:780:GLU:CB	6:D3:679:ILE:CG1	2.02	1.22
2:A4:824:ASN:O	3:A6:138:LEU:CG	1.85	1.22
2:A4:867:GLU:CG	6:D3:605:THR:HG21	1.68	1.22
2:A4:976:LEU:N	6:D3:496:LEU:HA	1.46	1.22
3:A5:995:VAL:O	11:I5:61:LYS:HB3	1.38	1.22
3:A5:1101:GLN:NE2	11:I5:33:THR:CG2	1.76	1.22
6:D6:800:PRO:CB	22:T3:765:LYS:CG	2.15	1.22
11:I1:955:LYS:HB3	16:N1:396:ILE:O	1.34	1.22
11:I1:1668:HIS:N	11:I2:1664:PHE:O	1.72	1.22
11:I2:1049:LEU:O	17:O3:288:GLU:HA	1.07	1.22
17:O4:106:HIS:O	18:P4:318:PRO:CG	1.87	1.22
23:U1:202:LEU:CA	31:c1:632:HIS:CB	2.00	1.22
23:U1:431:ILE:CD1	31:c2:469:SER:OG	1.86	1.22
28:Z1:525:LEU:C	30:b1:208:ASN:HD21	1.46	1.22
1:A1:1204:TRP:NE1	2:A2:645:PHE:CE1	2.06	1.22
1:A1:1396:GLY:CA	2:A2:888:GLN:CB	2.13	1.22
2:A2:879:LEU:CG	6:D1:567:LEU:HD11	1.68	1.22
1:A3:1188:ASN:C	3:A6:645:PHE:CB	2.11	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1260:ALA:CB	3:A6:719:ARG:HD3	1.63	1.22
2:A4:710:LEU:CB	3:A6:480:VAL:HG22	1.65	1.22
2:A4:861:GLN:O	6:D3:607:PRO:CG	1.85	1.22
2:A4:868:GLN:O	6:D3:598:ILE:HB	1.37	1.22
9:G1:255:LEU:O	15:M2:602:MET:HB3	1.36	1.22
11:I1:1029:LEU:N	20:R1:171:ALA:C	1.87	1.22
11:I1:1055:GLU:CG	17:O1:280:GLU:HB2	1.68	1.22
11:I1:1635:HIS:CE1	11:I2:1677:LYS:HD2	1.73	1.22
11:I2:956:ILE:O	20:R3:166:LEU:HB2	1.34	1.22
17:O3:151:LEU:CG	18:P3:325:ILE:CG1	2.11	1.22
21:S1:654:LYS:CB	21:S2:1153:GLN:O	1.86	1.22
22:T1:741:ASP:HA	31:c5:24:GLN:NE2	0.90	1.22
23:U2:15:PHE:CB	31:c4:477:GLU:C	2.12	1.22
28:Z3:523:ASP:HB2	30:b3:238:ASN:CA	1.13	1.22
28:Z3:554:PHE:CD1	30:b3:232:PRO:HG2	1.72	1.22
28:Z4:554:PHE:CD1	30:b4:232:PRO:HG2	1.72	1.22
1:A1:1396:GLY:HA2	2:A2:888:GLN:CB	1.57	1.22
2:A2:781:ARG:NE	6:D1:673:ARG:HH11	1.27	1.22
2:A2:868:GLN:NE2	6:D1:608:ILE:C	1.98	1.22
2:A4:691:LYS:CG	3:A6:316:ARG:HD3	1.47	1.22
2:A4:768:SER:HA	3:A6:476:PHE:O	1.34	1.22
2:A4:806:PHE:HE2	3:A6:395:MET:CE	1.51	1.22
2:A4:880:ALA:CB	6:D3:562:GLY:O	1.87	1.22
2:A4:909:LYS:HG2	6:D3:552:TYR:CD2	1.62	1.22
3:A5:1026:PRO:C	11:I5:68:ILE:N	1.97	1.22
3:A5:1363:ASP:H	28:Z2:875:LEU:CB	1.50	1.22
11:I1:877:ILE:CG2	17:O1:253:LEU:H	1.52	1.22
11:I1:984:GLU:HG2	15:M1:614:ASP:O	1.06	1.22
11:I1:1013:GLU:O	16:N1:411:GLN:C	1.80	1.22
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG3	1.61	1.22
11:I1:1109:LEU:N	16:N1:441:PHE:N	1.85	1.22
17:O3:151:LEU:CG	18:P3:325:ILE:HG13	1.49	1.22
21:S1:597:ILE:CB	21:S2:1120:PRO:HD3	1.70	1.22
23:U1:402:GLY:HA2	31:c2:547:ASN:O	1.07	1.22
28:Z1:523:ASP:CB	30:b1:238:ASN:HA	1.12	1.22
28:Z1:551:THR:HG22	30:b1:233:TRP:CH2	1.71	1.22
28:Z3:394:ASP:OD2	30:b3:241:PRO:CA	1.85	1.22
1:A3:1188:ASN:O	3:A6:645:PHE:HB2	1.33	1.22
1:A3:1198:GLU:N	3:A6:678:LEU:CD2	2.03	1.22
1:A3:1199:GLN:C	2:A4:729:SER:O	1.81	1.22
1:A3:1228:TYR:CD1	3:A6:551:GLN:CB	2.17	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:647:GLU:CB	3:A6:503:GLN:HG2	1.46	1.22
2:A4:670:SER:H	3:A6:542:LEU:CG	1.53	1.22
2:A4:754:HIS:O	3:A6:544:PHE:HA	1.38	1.22
2:A4:860:GLU:HB2	3:A6:130:ILE:O	1.08	1.22
2:A4:918:CYS:SG	4:B6:342:ARG:HB3	1.78	1.22
2:A4:965:LYS:HE2	6:D3:196:ILE:O	1.39	1.22
9:G1:269:GLU:HB2	16:N2:412:ASN:O	1.34	1.22
11:I1:928:LEU:HD21	20:R1:154:ALA:O	1.36	1.22
11:I1:1052:LEU:HB3	16:N1:438:LEU:CD1	1.51	1.22
11:I2:984:GLU:CB	15:M3:618:GLN:NE2	1.92	1.22
11:I4:1282:PHE:CD1	29:a3:24[B]:GLY:N	1.88	1.22
23:U1:202:LEU:CA	31:c1:632:HIS:HB3	1.40	1.22
26:X2:317:PHE:O	34:i:475:ILE:N	1.71	1.22
28:Z2:561:GLN:CB	30:b2:236:THR:N	2.02	1.22
28:Z4:557:CYS:CB	30:b4:210:ARG:HH11	1.48	1.22
28:Z4:561:GLN:CB	30:b4:236:THR:N	2.02	1.22
1:A1:834:GLU:C	6:D3:302:PRO:HB2	1.63	1.22
2:A2:1132:PRO:HD2	3:A5:160:ILE:CG1	1.69	1.22
1:A3:1198:GLU:CB	3:A6:678:LEU:CG	2.11	1.22
1:A3:1228:TYR:CE1	3:A6:551:GLN:HA	1.74	1.22
1:A3:1230:TYR:CE1	3:A6:609:GLU:O	1.92	1.22
1:A3:1273:ALA:H	3:A6:554:GLN:CG	1.30	1.22
1:A3:1282:PHE:H	3:A6:625:LEU:CB	1.51	1.22
2:A4:602:ILE:HG12	3:A6:506:SER:CB	1.67	1.22
2:A4:671:SER:C	3:A6:100:SER:HB3	1.63	1.22
2:A4:780:GLU:HG2	3:A6:524:ARG:N	1.11	1.22
2:A4:792:VAL:HG22	3:A6:248:VAL:N	1.22	1.22
2:A4:872:ALA:O	6:D3:565:MET:CA	1.78	1.22
2:A4:875:LEU:O	6:D3:564:ASN:HB3	1.34	1.22
3:A5:1415:PHE:H	28:Z2:960:CYS:N	1.36	1.22
3:A6:446:LEU:CD1	6:D3:721:PRO:CA	2.17	1.22
11:I1:916:ALA:O	16:N1:389:PHE:HZ	1.21	1.22
11:I3:1278:ALA:C	26:X1:520:GLU:HA	1.64	1.22
17:O4:110:LEU:HD23	18:P4:321:ILE:CA	1.69	1.22
21:S1:660:LEU:CA	21:S2:1102:VAL:HG21	1.67	1.22
23:U1:19:LEU:CD1	31:c2:470:ARG:HD2	1.70	1.22
1:A3:1196:GLU:OE1	3:A6:611:ILE:HG12	1.38	1.21
1:A3:1261:TYR:CE2	3:A6:616:ALA:HB1	1.74	1.21
2:A4:691:LYS:HD2	3:A6:316:ARG:CG	1.71	1.21
2:A4:777:LEU:CG	3:A6:526:ILE:HA	1.64	1.21
2:A4:778:PHE:CE1	3:A6:466:ALA:HB1	1.72	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:819:VAL:HG11	3:A6:149:LEU:CG	1.70	1.21
3:A5:232:LEU:CD2	5:C2:739:MET:N	1.95	1.21
11:I1:1018:LYS:CE	16:N1:413:VAL:CA	1.74	1.21
11:I2:846:ILE:CG2	17:O3:247:TRP:CZ2	2.22	1.21
23:U2:434:THR:N	31:c4:461:PHE:CD1	1.87	1.21
26:X1:403:HIS:NE2	37:k2:450:HIS:NE2	1.87	1.21
26:X2:303:PHE:HA	34:i:416:VAL:CG1	1.69	1.21
26:X2:315:GLN:CB	34:i:399:PRO:HB2	1.67	1.21
28:Z2:551:THR:HG22	30:b2:233:TRP:CH2	1.72	1.21
28:Z3:525:LEU:C	30:b3:208:ASN:HD21	1.46	1.21
2:A2:1126:VAL:CG2	3:A5:135:PHE:HB3	1.68	1.21
2:A2:1142:PHE:CE2	3:A5:567:VAL:HG23	1.58	1.21
1:A3:1204:TRP:CB	2:A4:731:ILE:CG2	2.19	1.21
2:A4:549:ALA:HA	3:A6:105:GLY:O	1.34	1.21
2:A4:635:ARG:NH1	3:A6:600:LYS:O	1.71	1.21
2:A4:720:LEU:HB3	3:A6:494:PRO:N	1.53	1.21
2:A4:772:SER:N	3:A6:477:PHE:HB3	1.54	1.21
2:A4:878:LEU:CB	6:D3:567:LEU:CD1	2.04	1.21
2:A4:946:LYS:C	4:B6:348:PRO:O	1.81	1.21
2:A4:983:LEU:HD11	6:D3:553:PHE:C	1.63	1.21
2:A4:1149:THR:HA	5:C4:730:HIS:O	1.30	1.21
3:A6:520:GLU:N	6:D3:681:ALA:H	1.38	1.21
9:G1:270:ARG:CB	16:N2:414:ALA:O	1.87	1.21
11:I1:885:GLU:C	16:N1:397:GLU:OE2	1.82	1.21
11:I2:874:LEU:O	17:O3:252:VAL:HA	1.41	1.21
11:I2:887:GLN:HE21	16:N3:393:ILE:C	1.47	1.21
11:I2:980:ILE:CB	15:M3:618:GLN:CA	2.06	1.21
11:I2:1045:PHE:C	15:M3:619:ILE:HD12	1.65	1.21
23:U1:140:PRO:O	31:c1:501:GLU:OE1	1.56	1.21
26:X1:401:LYS:HD2	37:k2:450:HIS:CG	1.73	1.21
26:X2:196:ASP:N	34:i:364:TYR:OH	1.71	1.21
26:X2:329:ARG:CZ	34:i:475:ILE:CG1	2.18	1.21
26:X2:363:TYR:CD2	34:i:419:THR:HG22	1.74	1.21
28:Z1:394:ASP:OD2	30:b1:241:PRO:HA	1.08	1.21
28:Z4:523:ASP:HB2	30:b4:238:ASN:CA	1.13	1.21
28:Z4:525:LEU:C	30:b4:208:ASN:HD21	1.46	1.21
1:A3:1052:THR:OG1	6:D3:816:VAL:CB	1.86	1.21
1:A3:1121:LEU:C	3:A6:599:ARG:NH2	1.99	1.21
1:A3:1182:ILE:CG2	3:A6:639:ASN:HB2	1.70	1.21
1:A3:1237:LEU:HD23	3:A6:119:TRP:NE1	1.45	1.21
2:A4:78:VAL:C	3:A6:385:PRO:HD3	1.64	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:549:ALA:CA	3:A6:105:GLY:O	1.86	1.21
2:A4:621:GLN:OE1	3:A6:108:SER:O	1.58	1.21
2:A4:623:SER:OG	3:A6:453:SER:CB	1.87	1.21
2:A4:868:GLN:CB	6:D3:570:VAL:CB	2.11	1.21
3:A6:483:HIS:O	6:D3:675:ARG:HB3	1.38	1.21
9:G1:254:ASN:ND2	15:M2:605:THR:O	1.56	1.21
9:G1:263:MET:C	16:N2:411:GLN:HB2	1.62	1.21
11:I1:837:MET:CE	17:O1:242:ARG:CA	2.18	1.21
11:I1:945:LEU:HG	17:O1:258:GLU:N	1.55	1.21
11:I2:948:ALA:CB	17:O3:253:LEU:HA	1.70	1.21
11:I2:1100:ILE:CG2	16:N3:433:GLU:CD	2.14	1.21
11:I3:1267:LEU:CD2	26:X1:529:TRP:CZ3	2.24	1.21
11:I3:1277:LEU:N	26:X1:522:MET:HB2	1.53	1.21
23:U1:19:LEU:CD1	31:c2:470:ARG:CD	2.19	1.21
23:U1:437:ASN:CB	31:c2:540:HIS:HA	1.71	1.21
23:U2:40:ARG:HH11	31:c4:560:ASN:CB	1.52	1.21
2:A2:1094:ILE:CG1	6:D2:759:GLN:CD	2.14	1.21
1:A3:1231:VAL:CG1	3:A6:617:VAL:HG23	1.69	1.21
2:A4:90:GLN:OE1	3:A6:427:MET:HA	1.07	1.21
2:A4:868:GLN:CG	6:D3:608:ILE:HD12	1.68	1.21
2:A4:951:GLU:OE1	3:A6:233:THR:HB	1.38	1.21
3:A5:1395:LYS:HA	28:Z2:873:LEU:CB	1.60	1.21
11:I1:947:LEU:HD11	16:N1:411:GLN:CG	1.70	1.21
11:I1:951:LYS:O	16:N1:400:LEU:HA	1.39	1.21
11:I1:1037:THR:CA	15:M1:624:ASN:ND2	2.02	1.21
11:I1:1664:PHE:C	11:I2:1668:HIS:N	1.95	1.21
11:I2:884:LEU:O	16:N3:397:GLU:HG3	1.35	1.21
11:I2:890:TYR:C	17:O3:239:GLN:CA	1.79	1.21
11:I2:980:ILE:CD1	15:M3:622:VAL:HG23	1.68	1.21
11:I2:1113:LEU:CD2	17:O3:282:LYS:HE2	1.71	1.21
11:I3:1267:LEU:HD22	26:X1:497:ARG:NE	1.53	1.21
18:P1:276:SER:CB	18:P4:322:LYS:HE2	1.57	1.21
23:U1:26:GLN:NE2	31:c2:483:ASP:HA	1.55	1.21
23:U2:21:GLU:HB2	31:c4:483:ASP:OD1	1.05	1.21
23:U2:394:ILE:HD12	31:c4:539:ILE:CG1	1.62	1.21
26:X2:301:SER:HA	34:i:334:TYR:O	1.36	1.21
28:Z3:561:GLN:CB	30:b3:236:THR:N	2.02	1.21
1:A3:1230:TYR:CD1	3:A6:609:GLU:O	1.92	1.21
1:A3:1236:GLN:HG2	3:A6:581:LYS:CB	1.71	1.21
1:A3:1257:VAL:HG12	3:A6:620:GLY:N	1.54	1.21
1:A3:1259:CYS:SG	3:A6:624:ASP:OD1	1.98	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:683:LEU:HB3	3:A6:403:ARG:NH1	1.56	1.21
2:A4:717:VAL:HG12	3:A6:492:SER:O	1.34	1.21
2:A4:777:LEU:C	6:D3:678:GLY:HA3	1.65	1.21
2:A4:873:PRO:HG3	6:D3:572:GLU:OE2	1.37	1.21
2:A4:970:PHE:N	6:D3:202:GLN:HG3	0.87	1.21
3:A5:234:LEU:CD2	5:C2:738:ASP:C	2.13	1.21
3:A5:1031:TYR:HD1	11:I5:67:LYS:NZ	1.09	1.21
3:A5:1399:ARG:NH1	28:Z2:909:LEU:HA	1.49	1.21
11:I1:873:ILE:HG23	17:O1:254:ARG:CG	1.69	1.21
11:I1:922:ASP:N	15:M1:592:LEU:CD2	1.95	1.21
11:I1:954:GLU:CB	16:N1:402:GLY:C	1.95	1.21
11:I1:990:GLU:CG	17:O1:275:LEU:CD2	2.16	1.21
11:I1:1019:LEU:C	16:N1:409:ALA:HB2	0.86	1.21
11:I1:1029:LEU:HB2	20:R1:171:ALA:O	1.06	1.21
11:I1:1543:LEU:O	12:J2:300:ILE:HG23	1.39	1.21
11:I1:1603:ARG:NH1	11:I2:1662:ARG:CD	1.89	1.21
11:I2:875:ARG:C	17:O3:251:ILE:HG22	1.10	1.21
11:I2:895:ARG:C	17:O3:233:THR:C	2.06	1.21
11:I2:1105:TRP:CB	16:N3:439:ARG:HH21	1.53	1.21
17:O3:154:ARG:HD2	18:P3:324:LEU:CD1	1.70	1.21
23:U1:38:ILE:CD1	31:c2:473:THR:HB	1.69	1.21
23:U2:39:ILE:C	31:c4:474:ASN:C	2.09	1.21
23:U2:434:THR:HA	31:c4:460:LEU:CB	1.71	1.21
23:U3:279:TYR:CD1	25:W4:189:SER:CB	2.19	1.21
26:X2:300:SER:CB	34:i:367:GLU:O	1.88	1.21
26:X2:309:LEU:HD23	34:i:396:HIS:C	1.64	1.21
26:X2:365:ILE:HG22	34:i:424:LEU:CG	1.68	1.21
1:A3:1163:TYR:O	3:A6:648:TYR:CE2	1.92	1.20
2:A4:95:TYR:O	3:A6:364:HIS:HB3	1.06	1.20
2:A4:678:LEU:HD21	3:A6:103:ARG:O	1.07	1.20
2:A4:689:LYS:CE	3:A6:336:ILE:HD13	1.70	1.20
2:A4:713:ILE:CB	3:A6:462:LEU:CD1	2.19	1.20
2:A4:826:ASN:CG	6:D3:633:LYS:HB2	1.66	1.20
2:A4:827:ILE:CG1	3:A6:130:ILE:O	1.76	1.20
2:A4:909:LYS:CD	6:D3:555:ARG:CZ	2.09	1.20
3:A5:147:LEU:O	5:C2:747:PRO:CB	1.88	1.20
3:A5:186:ILE:O	5:C2:746:PRO:HD3	1.41	1.20
6:D7:527:ASN:O	11:I3:181:GLN:HG2	1.41	1.20
11:I1:833:PHE:CE2	17:O1:241:SER:HB3	1.75	1.20
11:I1:837:MET:CE	17:O1:243:LEU:H	1.53	1.20
11:I1:1038:ILE:HD13	15:M1:620:VAL:CG1	1.50	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1607:GLN:HG2	11:I2:1739:GLU:N	1.55	1.20
11:I2:833:PHE:CZ	17:O3:241:SER:C	2.19	1.20
11:I2:995:SER:CA	17:O3:267:ALA:O	1.89	1.20
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE1	1.88	1.20
11:I3:777:SER:CA	29:a2:40[A]:GLU:HG2	1.69	1.20
23:U1:38:ILE:HD11	31:c2:475:ALA:N	1.54	1.20
23:U1:202:LEU:CD1	31:c1:571:GLN:NE2	2.02	1.20
23:U2:395:CYS:CB	31:c4:552:ARG:O	1.89	1.20
28:Z1:411:LEU:H	30:b1:251:ILE:CD1	1.49	1.20
2:A2:1147:ILE:O	3:A5:172:PRO:HB2	1.39	1.20
2:A4:615:LEU:CG	3:A6:509:LYS:O	1.89	1.20
2:A4:702:SER:OG	3:A6:379:VAL:HG12	1.42	1.20
2:A4:730:THR:OG1	3:A6:609:GLU:HG3	1.34	1.20
2:A4:821:ALA:HB2	3:A6:147:LEU:N	1.08	1.20
2:A4:868:GLN:HB3	6:D3:570:VAL:CG2	1.70	1.20
2:A4:907:SER:O	6:D3:552:TYR:OH	1.60	1.20
2:A4:969:ASP:C	6:D3:202:GLN:HG3	1.65	1.20
3:A5:172:PRO:HD2	5:C2:730:HIS:CB	1.71	1.20
3:A5:221:SER:H	5:C2:738:ASP:CG	1.49	1.20
3:A5:1369:ILE:CG1	28:Z2:828:LEU:O	1.79	1.20
6:D7:179:ASP:OD1	11:I3:49:PRO:HB3	1.38	1.20
11:I1:846:ILE:O	15:M1:594:LYS:HD3	1.04	1.20
11:I1:884:LEU:HD22	16:N1:396:ILE:CB	1.41	1.20
11:I1:955:LYS:HE3	16:N1:397:GLU:O	1.04	1.20
11:I1:1609:GLY:HA3	12:J2:295:TYR:CE1	1.77	1.20
11:I2:1048:GLU:CG	17:O3:288:GLU:HG3	1.70	1.20
11:I2:1059:PRO:CB	17:O3:273:ASP:O	1.90	1.20
11:I3:1273:GLU:N	26:X1:526:CYS:H	1.07	1.20
17:O4:109:PRO:HD2	18:P4:318:PRO:CG	1.69	1.20
23:U2:432:TYR:CZ	31:c4:464:LEU:CD1	2.25	1.20
26:X2:287:ASP:CG	34:i:480[B]:MET:HG3	1.66	1.20
26:X2:291:LEU:CA	34:i:415:SER:HB2	1.47	1.20
28:Z1:528:ILE:O	30:b1:184:SER:CB	1.82	1.20
1:A1:870:HIS:ND1	6:D3:279:HIS:CE1	2.09	1.20
1:A3:1278:PRO:HG2	3:A6:624:ASP:CG	1.64	1.20
2:A4:635:ARG:NH2	3:A6:600:LYS:C	2.00	1.20
2:A4:711:VAL:N	3:A6:462:LEU:CD2	2.02	1.20
2:A4:734:LEU:O	3:A6:549:ALA:CB	1.75	1.20
2:A4:859:GLN:OE1	3:A6:134:VAL:HG21	1.38	1.20
3:A5:1151:THR:HA	5:C5:733:LEU:CD1	1.72	1.20
3:A6:520:GLU:HG2	6:D3:639:LEU:CD1	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:565:THR:CG2	6:D3:633:LYS:HB3	1.70	1.20
11:I1:996:LEU:HD21	16:N1:410:MET:CE	1.60	1.20
11:I1:1036:PRO:HD2	15:M1:626:HIS:HB2	1.21	1.20
11:I1:1109:LEU:HD13	17:O1:290:TYR:CD2	1.73	1.20
11:I3:1275:SER:OG	26:X1:522:MET:CG	1.89	1.20
28:Z3:557:CYS:CB	30:b3:210:ARG:HH11	1.48	1.20
2:A2:826:ASN:CB	6:D1:633:LYS:HB2	1.70	1.20
1:A3:1021:LEU:CB	6:D3:816:VAL:HG12	1.64	1.20
1:A3:1189:LEU:HD21	3:A6:579:PHE:HZ	1.03	1.20
1:A3:1236:GLN:N	3:A6:581:LYS:N	1.75	1.20
1:A3:1244:LEU:CD2	3:A6:633:MET:HE3	1.71	1.20
1:A3:1277:TRP:C	3:A6:625:LEU:HD21	1.42	1.20
2:A4:642:ARG:HD2	3:A6:604:GLN:O	1.38	1.20
2:A4:692:VAL:HG13	3:A6:467:LEU:CA	1.70	1.20
2:A4:720:LEU:CG	3:A6:511:PHE:O	1.89	1.20
2:A4:859:GLN:HG2	3:A6:134:VAL:HG23	1.24	1.20
2:A4:861:GLN:C	6:D3:607:PRO:HD3	1.64	1.20
2:A4:861:GLN:H	6:D3:606:LYS:NZ	1.05	1.20
3:A5:220:VAL:HG22	5:C2:738:ASP:O	1.04	1.20
3:A5:996:ASN:CB	11:I5:56:ARG:C	2.05	1.20
3:A6:1360:GLY:CA	28:Z4:918:PHE:CB	2.19	1.20
3:A6:1403:MSE:SE	28:Z4:964:LEU:CB	2.39	1.20
8:F1:1137:GLN:CD	17:O2:249:ARG:H	1.32	1.20
8:F1:1261:TYR:CD1	17:O2:263:GLN:CB	2.16	1.20
8:F2:1090:PRO:HG3	17:O4:245:GLU:OE2	1.33	1.20
11:I1:896:PRO:O	17:O1:232:LYS:HB3	1.42	1.20
11:I1:945:LEU:HD23	17:O1:258:GLU:C	1.66	1.20
11:I2:948:ALA:CB	17:O3:253:LEU:O	1.88	1.20
11:I2:1039:ALA:CA	20:R3:170:LEU:CD1	2.17	1.20
11:I3:1267:LEU:CG	26:X1:497:ARG:CZ	2.20	1.20
23:U2:405:GLU:H	31:c4:544:VAL:CG2	1.52	1.20
28:Z4:524:VAL:CG2	30:b4:236:THR:O	1.81	1.20
1:A1:1224:PRO:CD	2:A2:731:ILE:CG1	2.18	1.20
2:A2:777:LEU:CA	6:D1:678:GLY:HA3	1.51	1.20
2:A2:970:PHE:N	6:D1:196:ILE:CD1	1.86	1.20
1:A3:1056:PHE:CZ	6:D3:807:THR:O	1.95	1.20
1:A3:1250:PRO:CG	3:A6:635:ARG:CB	2.17	1.20
2:A4:235:TYR:CE1	4:B4:347:LEU:HB2	1.77	1.20
2:A4:918:CYS:SG	4:B6:342:ARG:CB	2.30	1.20
11:I1:923:GLY:HA3	15:M1:592:LEU:N	1.29	1.20
11:I1:955:LYS:CE	16:N1:397:GLU:O	1.87	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:828:VAL:O	17:O3:237:PRO:CG	1.88	1.20
11:I2:921:GLU:N	15:M3:592:LEU:CG	1.92	1.20
11:I2:939:ASN:ND2	17:O3:265:ASN:OD1	1.75	1.20
11:I2:978:LYS:NZ	20:R3:155:GLU:N	1.90	1.20
17:O3:101:ASN:HB3	18:P3:326:GLN:NE2	1.28	1.20
26:X2:324:ILE:HG13	34:i:476:LEU:HD13	1.22	1.20
28:Z1:531:LYS:HD3	30:b1:183:LEU:CA	1.72	1.20
2:A2:235:TYR:CE1	4:B2:347:LEU:HB2	1.77	1.19
1:A3:1224:PRO:CA	3:A6:496:THR:O	1.89	1.19
1:A3:1241:ARG:HH11	3:A6:593:ALA:CB	1.54	1.19
1:A3:1248:ILE:HD11	3:A6:587:VAL:CA	1.59	1.19
1:A3:1261:TYR:HE2	3:A6:679:TYR:CE1	1.60	1.19
1:A3:1281:LEU:CA	3:A6:625:LEU:HG	1.70	1.19
1:A3:1332:ARG:O	6:D3:637:LYS:CD	1.89	1.19
2:A4:720:LEU:HG	3:A6:511:PHE:O	1.04	1.19
2:A4:727:ASN:OD1	3:A6:605:TYR:CA	1.89	1.19
2:A4:854:VAL:CG1	3:A6:174:PRO:N	2.05	1.19
2:A4:875:LEU:O	6:D3:567:LEU:CG	1.75	1.19
2:A4:889:VAL:HG13	3:A6:171:HIS:CD2	1.76	1.19
3:A6:443:ILE:H	6:D3:691:LEU:CD1	1.49	1.19
3:A6:520:GLU:CB	6:D3:639:LEU:CD1	2.20	1.19
3:A6:1368:GLN:CB	28:Z4:875:LEU:HA	1.70	1.19
3:A6:1410:ALA:HB1	26:X4:687:SER:CB	1.72	1.19
8:F2:1088:GLU:OE1	17:O4:247:TRP:C	1.85	1.19
11:I1:937:TYR:CB	17:O1:258:GLU:HA	1.69	1.19
11:I1:951:LYS:CD	16:N1:400:LEU:O	1.89	1.19
11:I1:1114:VAL:HG12	16:N1:432:TYR:CE2	1.51	1.19
11:I2:841:PHE:CD1	15:M3:588:MET:CG	2.25	1.19
11:I2:847:THR:H	15:M3:594:LYS:NZ	1.37	1.19
11:I4:813:ILE:CG1	26:X3:496:THR:CG2	2.20	1.19
23:U2:442:LEU:HB2	31:c4:462:HIS:CD2	1.76	1.19
24:V1:287:ASN:HB3	31:c1:11:TYR:CE2	1.75	1.19
28:Z4:528:ILE:HG13	30:b4:210:ARG:NH1	1.38	1.19
2:A2:225:THR:CG2	6:D1:706:HIS:HB3	1.71	1.19
2:A2:827:ILE:HD12	2:A2:859:GLN:HB2	1.23	1.19
2:A2:1126:VAL:HG23	3:A5:135:PHE:CB	1.72	1.19
1:A3:1224:PRO:HA	3:A6:496:THR:C	1.67	1.19
1:A3:1236:GLN:CA	3:A6:581:LYS:HB3	1.71	1.19
2:A4:547:GLU:H	3:A6:366:ALA:CB	1.40	1.19
2:A4:551:GLN:O	3:A6:108:SER:OG	1.59	1.19
2:A4:577:ASP:CA	3:A6:453:SER:HB2	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:CA	3:A6:512:GLU:OE1	1.90	1.19
2:A4:765:GLU:CB	3:A6:559:PHE:HZ	1.55	1.19
2:A4:772:SER:CB	3:A6:477:PHE:HD1	1.55	1.19
2:A4:970:PHE:CZ	6:D3:498:GLU:OE2	1.75	1.19
11:I1:837:MET:HE1	17:O1:243:LEU:N	1.57	1.19
11:I1:894:VAL:CG2	17:O1:238:ALA:HB3	1.72	1.19
11:I1:923:GLY:HA2	15:M1:590:LYS:C	1.63	1.19
11:I2:984:GLU:HB2	15:M3:618:GLN:NE2	1.42	1.19
11:I4:819:MET:CB	26:X3:501:LYS:HZ3	1.55	1.19
23:U2:432:TYR:O	31:c4:539:ILE:CG2	1.90	1.19
23:U2:437:ASN:C	31:c4:428:ARG:NH2	2.00	1.19
23:U2:440:ASP:N	31:c4:428:ARG:HD3	1.57	1.19
26:X1:403:HIS:CE1	37:k2:450:HIS:CE1	1.79	1.19
28:Z1:526:ARG:HB3	30:b1:206:ASN:CB	1.72	1.19
28:Z1:561:GLN:CB	30:b1:236:THR:N	2.02	1.19
28:Z2:524:VAL:CA	30:b2:236:THR:HG22	1.72	1.19
28:Z3:541:PRO:HD2	30:b3:180:GLY:HA3	1.21	1.19
1:A3:1203:TYR:N	3:A6:91:LEU:HG	1.37	1.19
2:A4:91:LEU:HD23	3:A6:430:GLN:NE2	1.43	1.19
2:A4:705:ILE:HB	3:A6:482:LYS:N	1.54	1.19
2:A4:716:ASN:N	3:A6:490:PHE:HZ	1.39	1.19
2:A4:825:ARG:CA	3:A6:138:LEU:HD12	1.73	1.19
2:A4:944:SER:C	4:B6:351:GLU:HG3	1.50	1.19
2:A4:976:LEU:HD13	6:D3:472:PHE:CD2	1.78	1.19
2:A4:985:ALA:CA	6:D3:500:LYS:H	1.55	1.19
3:A6:519:LEU:C	6:D3:686:ASP:OD1	1.84	1.19
3:A6:520:GLU:CA	6:D3:639:LEU:CD1	1.95	1.19
8:F2:1091:SER:H	17:O4:245:GLU:CA	1.55	1.19
9:G2:255:LEU:HD12	17:O4:262:ASP:OD1	1.02	1.19
11:I1:877:ILE:CG2	17:O1:253:LEU:N	2.04	1.19
11:I1:1013:GLU:O	16:N1:411:GLN:OE1	1.59	1.19
11:I1:1037:THR:HG23	20:R1:169:GLY:CA	1.71	1.19
11:I2:978:LYS:HZ2	20:R3:155:GLU:CB	1.54	1.19
11:I2:1031:ALA:N	20:R3:173:LEU:C	1.98	1.19
23:U2:432:TYR:C	31:c4:539:ILE:HG21	1.67	1.19
26:X2:296:PRO:CD	34:i:416:VAL:HA	1.64	1.19
2:A2:983:LEU:HB2	6:D1:528:PHE:CE1	1.77	1.19
2:A2:1130:ARG:O	3:A5:160:ILE:HG21	1.43	1.19
1:A3:1198:GLU:CA	3:A6:682:ARG:NE	1.85	1.19
1:A3:1258:VAL:O	3:A6:621:GLN:HA	1.40	1.19
2:A4:91:LEU:CD2	3:A6:430:GLN:NE2	1.86	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:684:VAL:HG22	3:A6:405:PHE:CE2	1.75	1.19
2:A4:763:LEU:HG	3:A6:470:ARG:CG	1.72	1.19
2:A4:771:ILE:CD1	3:A6:476:PHE:CZ	2.26	1.19
2:A4:975:GLU:HB3	6:D3:501:LEU:CB	1.71	1.19
2:A4:977:VAL:CA	6:D3:492:VAL:HG12	1.58	1.19
8:F1:1137:GLN:HG2	17:O2:248:SER:N	1.56	1.19
8:F1:1205:TRP:HE1	17:O2:251:ILE:CG2	1.54	1.19
9:G1:258:LYS:HB2	17:O2:253:LEU:CD2	1.71	1.19
11:I1:797:LEU:HD13	17:O1:245:GLU:CG	1.71	1.19
11:I1:873:ILE:HG23	17:O1:254:ARG:CD	1.71	1.19
11:I1:931:VAL:HG23	15:M1:603:SER:OG	1.36	1.19
11:I1:1070:LEU:N	16:N1:429:GLU:CB	2.04	1.19
11:I1:1108:PRO:HB3	16:N1:443:GLU:HB2	1.24	1.19
11:I2:877:ILE:CG1	17:O3:254:ARG:CG	2.17	1.19
11:I2:899:LEU:HD22	17:O3:231:ASP:OD1	1.40	1.19
11:I2:981:VAL:H	20:R3:147:LEU:CD1	1.44	1.19
11:I2:989:GLY:CA	15:M3:614:ASP:OD1	1.87	1.19
11:I2:1039:ALA:C	20:R3:170:LEU:CD2	2.14	1.19
21:S3:678:GLU:HA	21:S4:1144:LEU:N	1.16	1.19
26:X2:197:VAL:HB	34:i:366:PHE:CD2	1.24	1.19
26:X2:306:TRP:HA	34:i:405:TYR:O	1.07	1.19
26:X2:361:LEU:CD2	34:i:423:LYS:HD2	1.71	1.19
28:Z4:523:ASP:CB	30:b4:238:ASN:HA	1.12	1.19
2:A2:1122:LEU:CD1	3:A5:135:PHE:CD2	2.26	1.19
1:A3:835:THR:CG2	6:D1:302:PRO:CG	2.21	1.19
1:A3:1251:VAL:HG13	3:A6:634:ASP:OD2	1.38	1.19
1:A3:1274:ASP:O	3:A6:556:PRO:HD3	1.42	1.19
2:A4:80:LYS:CE	3:A6:387:THR:HG23	1.73	1.19
2:A4:705:ILE:CB	3:A6:482:LYS:H	1.40	1.19
2:A4:710:LEU:CB	3:A6:480:VAL:HG23	1.67	1.19
2:A4:734:LEU:HD13	3:A6:95:TYR:CG	1.78	1.19
2:A4:780:GLU:CB	6:D3:679:ILE:HD11	1.72	1.19
3:A5:160:ILE:N	5:C2:744:PHE:HA	1.58	1.19
3:A5:1026:PRO:CB	11:I5:73:TYR:CE1	2.25	1.19
3:A5:1395:LYS:HB2	28:Z2:870:ILE:HA	1.25	1.19
8:F1:1137:GLN:HB2	17:O2:244:GLU:O	1.41	1.19
8:F2:1049:GLN:HE22	17:O4:237:PRO:CB	1.56	1.19
11:I1:841:PHE:CD2	17:O1:243:LEU:CD1	2.25	1.19
11:I1:927:HIS:O	15:M1:597:LYS:CA	1.91	1.19
11:I1:1040:HIS:CD2	16:N1:437:VAL:CG2	2.17	1.19
11:I2:968:PRO:HD3	20:R3:153:GLN:CB	1.54	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1017:VAL:CG1	16:N3:410:MET:CG	2.21	1.19
11:I3:1276:GLN:NE2	26:X1:535:ALA:O	1.73	1.19
22:T1:816:LYS:HD3	31:c5:85:ARG:NH1	1.56	1.19
23:U1:395:CYS:CA	31:c2:552:ARG:HH12	1.53	1.19
23:U2:14:LYS:N	31:c4:469:SER:N	1.61	1.19
23:U2:394:ILE:CG2	31:c4:535:VAL:HA	1.70	1.19
23:U2:426:TYR:CB	31:c4:463:HIS:CE1	2.26	1.19
26:X2:187:THR:CG2	34:i:444:GLU:CA	2.21	1.19
26:X2:294:GLN:O	34:i:415:SER:O	1.57	1.19
26:X2:298:ASP:N	34:i:369:VAL:HG22	1.56	1.19
28:Z1:524:VAL:N	30:b1:238:ASN:HB2	1.26	1.19
2:A2:227:SER:CB	6:D1:711:PHE:HB3	1.73	1.18
1:A3:1172:HIS:HB2	3:A6:587:VAL:O	1.40	1.18
1:A3:1226:LEU:C	3:A6:551:GLN:CG	2.02	1.18
1:A3:1236:GLN:HG2	3:A6:581:LYS:HB3	1.23	1.18
2:A4:680:LEU:CD2	3:A6:470:ARG:NH2	2.06	1.18
2:A4:715:GLU:OE2	3:A6:516:TRP:HD1	1.24	1.18
2:A4:753:GLU:HG2	3:A6:93:ASP:O	1.42	1.18
2:A4:772:SER:CA	3:A6:489:LEU:CG	2.10	1.18
2:A4:772:SER:CA	3:A6:489:LEU:HG	1.71	1.18
2:A4:861:GLN:CD	6:D3:607:PRO:HB3	1.68	1.18
3:A5:1029:ILE:N	11:I5:68:ILE:N	1.82	1.18
6:D7:531:LEU:H	11:I3:181:GLN:CG	1.29	1.18
11:I1:949:CYS:O	16:N1:403:VAL:CG1	1.90	1.18
11:I1:1029:LEU:CB	20:R1:174:ARG:HB2	1.70	1.18
11:I1:1070:LEU:H	16:N1:429:GLU:CB	1.54	1.18
11:I2:881:ILE:HG23	17:O3:249:ARG:NH2	1.56	1.18
11:I2:896:PRO:N	17:O3:233:THR:HA	1.56	1.18
11:I2:950:LEU:HG	15:M3:606:LEU:HD21	1.24	1.18
11:I2:1020:ALA:O	16:N3:406:HIS:ND1	1.76	1.18
11:I4:1282:PHE:CD2	29:a3:24[B]:GLY:C	2.21	1.18
23:U1:198:GLU:OE2	31:c1:622:ILE:HD13	1.39	1.18
23:U2:40:ARG:O	31:c4:474:ASN:N	1.69	1.18
23:U2:435:PHE:CE1	31:c4:539:ILE:HG13	1.76	1.18
26:X2:192:LEU:HD11	34:i:443:THR:N	1.59	1.18
26:X2:287:ASP:CB	34:i:480[B]:MET:HB2	1.72	1.18
26:X2:302:THR:N	34:i:333:LEU:HB3	1.19	1.18
26:X2:333:GLU:OE2	34:i:475:ILE:CD1	1.91	1.18
28:Z1:524:VAL:CA	30:b1:236:THR:HG22	1.72	1.18
2:A2:824:ASN:OD1	2:A2:859:GLN:CD	1.86	1.18
2:A2:866:SER:HB3	6:D1:602:THR:O	1.01	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1145:GLY:CA	3:A5:129:ASN:ND2	2.06	1.18
1:A3:1198:GLU:N	3:A6:678:LEU:HD21	1.58	1.18
1:A3:1248:ILE:CD1	3:A6:587:VAL:CB	2.14	1.18
2:A4:90:GLN:HB3	3:A6:428:GLN:HB3	1.20	1.18
2:A4:689:LYS:CG	3:A6:336:ILE:HD11	1.72	1.18
2:A4:767:ILE:HA	3:A6:469:PHE:O	1.07	1.18
2:A4:854:VAL:HG11	3:A6:171:HIS:ND1	0.86	1.18
2:A4:947:LYS:NZ	3:A6:235:TYR:HD2	1.27	1.18
3:A6:1151:THR:HA	5:C6:733:LEU:CD1	1.72	1.18
6:D6:800:PRO:HB3	22:T3:765:LYS:CB	1.72	1.18
8:F1:1137:GLN:HG3	17:O2:248:SER:OG	1.19	1.18
11:I1:846:ILE:O	15:M1:594:LYS:CD	1.80	1.18
11:I1:924:ILE:HD13	15:M1:595:MET:HG2	1.22	1.18
11:I1:957:SER:O	20:R1:168:LEU:CD2	1.89	1.18
11:I2:881:ILE:HA	16:N3:400:LEU:HD13	1.21	1.18
11:I2:1043:LEU:CD1	16:N3:433:GLU:HB3	1.73	1.18
11:I4:813:ILE:HG13	26:X3:496:THR:HG23	1.20	1.18
21:S1:654:LYS:O	21:S2:1154:GLY:CA	1.90	1.18
23:U1:35:PRO:CB	31:c2:556:GLN:HE21	1.55	1.18
23:U2:440:ASP:CG	31:c4:345:MET:HE2	1.68	1.18
23:U3:276:VAL:CA	25:W4:192:GLN:HE21	1.35	1.18
24:V1:339:LEU:HB2	31:c1:627:ASP:N	1.58	1.18
26:X2:318:GLY:N	34:i:400:LYS:HE2	1.58	1.18
28:Z1:534:ASP:HA	30:b1:164:CYS:HB2	1.21	1.18
28:Z3:531:LYS:HD3	30:b3:183:LEU:CA	1.72	1.18
1:A1:873:PRO:CB	6:D3:218:LYS:NZ	2.05	1.18
2:A2:780:GLU:CG	6:D1:679:ILE:N	1.84	1.18
1:A3:1189:LEU:HD21	3:A6:579:PHE:CZ	1.79	1.18
1:A3:1253:SER:CB	3:A6:635:ARG:HB2	1.71	1.18
1:A3:1278:PRO:HB2	3:A6:624:ASP:N	1.58	1.18
2:A4:673:HIS:HE1	3:A6:388:GLU:O	1.26	1.18
2:A4:717:VAL:CG2	3:A6:403:ARG:NH2	2.07	1.18
2:A4:720:LEU:HB2	3:A6:512:GLU:HG2	1.22	1.18
2:A4:867:GLU:HG3	6:D3:605:THR:CG2	1.72	1.18
2:A4:879:LEU:HB2	6:D3:564:ASN:CG	1.66	1.18
2:A4:908:LEU:CD2	6:D3:601:PHE:HB3	1.73	1.18
6:D5:238:ALA:HB2	31:c3:473:THR:O	1.39	1.18
11:I1:1046:HIS:CB	17:O1:280:GLU:O	1.90	1.18
11:I2:833:PHE:O	17:O3:241:SER:HA	1.39	1.18
11:I5:1279:THR:OG1	26:X2:520:GLU:CA	1.89	1.18
22:T1:812:ASP:OD2	31:c5:88:GLU:HB2	1.00	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:524:VAL:CG1	30:b2:236:THR:CB	2.12	1.18
28:Z3:523:ASP:CB	30:b3:238:ASN:HA	1.12	1.18
28:Z3:524:VAL:CA	30:b3:236:THR:HG22	1.72	1.18
28:Z4:526:ARG:HB3	30:b4:206:ASN:CB	1.72	1.18
1:A1:870:HIS:HB3	6:D3:279:HIS:CB	1.74	1.18
1:A3:1086:LYS:CB	6:D3:798:MET:HA	1.72	1.18
1:A3:1192:GLN:N	3:A6:615:LEU:HB2	1.00	1.18
1:A3:1261:TYR:CE1	3:A6:621:GLN:HG3	1.71	1.18
2:A4:765:GLU:OE1	3:A6:475:TYR:CE2	1.95	1.18
2:A4:877:ALA:CA	6:D3:563:GLU:HA	1.53	1.18
2:A4:907:SER:O	6:D3:552:TYR:CZ	1.97	1.18
3:A5:175:GLU:OE1	5:C2:733:LEU:CD1	1.91	1.18
11:I1:797:LEU:CB	17:O1:245:GLU:HG2	1.74	1.18
11:I1:881:ILE:O	17:O1:249:ARG:HD3	1.44	1.18
11:I1:916:ALA:N	15:M1:585:LEU:C	1.93	1.18
11:I1:976:ARG:NH2	15:M1:622:VAL:CG1	2.07	1.18
11:I1:1108:PRO:CD	16:N1:443:GLU:HB3	1.74	1.18
11:I2:925:LEU:HD13	20:R3:156:GLY:N	1.58	1.18
11:I2:1017:VAL:CG1	16:N3:410:MET:HG2	1.73	1.18
11:I2:1032:THR:HB	20:R3:173:LEU:HD11	1.24	1.18
11:I2:1034:ASP:OD2	15:M3:630:LEU:CG	1.92	1.18
11:I2:1048:GLU:HG3	17:O3:288:GLU:HG3	1.20	1.18
11:I4:1282:PHE:CE2	29:a3:22:PRO:HB2	1.71	1.18
21:S3:678:GLU:CA	21:S4:1144:LEU:N	2.04	1.18
23:U2:78:VAL:C	31:c4:553:LEU:CD1	2.16	1.18
23:U2:389:VAL:HG13	31:c4:548:VAL:HG11	1.26	1.18
26:X2:308:ASN:ND2	34:i:315:LEU:CD2	2.06	1.18
26:X2:324:ILE:CD1	34:i:476:LEU:HD13	1.72	1.18
28:Z1:541:PRO:HD2	30:b1:180:GLY:HA3	1.21	1.18
28:Z3:524:VAL:CG2	30:b3:236:THR:O	1.81	1.18
1:A1:1396:GLY:HA2	2:A2:888:GLN:HB2	1.18	1.18
2:A2:864:ARG:CZ	6:D1:610:ASN:ND2	2.05	1.18
2:A2:876:ARG:CD	6:D1:558:LYS:HA	1.74	1.18
2:A2:911:TYR:OH	6:D1:196:ILE:HG21	1.40	1.18
2:A2:1143:LEU:CB	3:A5:130:ILE:O	1.92	1.18
2:A2:1151:THR:CA	5:C2:733:LEU:HD12	1.73	1.18
2:A2:1154:PHE:CE1	4:B5:342:ARG:CD	2.27	1.18
1:A3:1124:ARG:HH21	3:A6:598:VAL:C	1.36	1.18
1:A3:1186:TRP:CD1	3:A6:640:LEU:H	1.61	1.18
1:A3:1261:TYR:CE2	3:A6:679:TYR:CE1	2.29	1.18
1:A3:1265:ASN:OD1	3:A6:683:LEU:HD11	1.39	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1278:PRO:HG2	3:A6:624:ASP:CB	1.68	1.18
1:A3:1389:SER:CB	3:A6:224:PRO:CA	1.92	1.18
2:A4:231:SER:HB3	6:D3:709:ARG:NH2	1.58	1.18
2:A4:724:LEU:CD2	3:A6:95:TYR:OH	1.75	1.18
2:A4:732:GLN:HG2	3:A6:91:LEU:CD1	1.65	1.18
2:A4:762:LYS:CB	3:A6:472:SER:HB2	1.71	1.18
2:A4:861:GLN:N	6:D3:606:LYS:NZ	1.89	1.18
2:A4:1151:THR:CG2	5:C4:734:VAL:N	2.05	1.18
3:A5:994:VAL:O	11:I5:61:LYS:HD3	1.44	1.18
3:A5:996:ASN:HD22	11:I5:58:ALA:CB	1.33	1.18
3:A5:1005:PHE:CE1	11:I5:67:LYS:CE	2.27	1.18
3:A5:1369:ILE:CG2	28:Z2:827:GLN:O	1.91	1.18
11:I1:1014:ASN:HA	16:N1:411:GLN:O	1.03	1.18
11:I1:1109:LEU:HD12	17:O1:290:TYR:CZ	1.60	1.18
11:I2:900:ARG:HG3	17:O3:232:LYS:NZ	1.58	1.18
17:O3:102:LYS:HB3	18:P3:322:LYS:CE	1.73	1.18
17:O3:147:ALA:HB1	18:P3:328:PRO:CG	1.73	1.18
21:S1:176:MET:HE2	21:S1:212:LEU:HD11	1.20	1.18
23:U2:360:HIS:HB2	31:c4:544:VAL:CG1	1.73	1.18
23:U2:430:PRO:CB	31:c4:458:LYS:HA	0.93	1.18
23:U2:432:TYR:CZ	31:c4:464:LEU:HD12	1.79	1.18
24:V1:343:LYS:NZ	31:c1:631:LYS:CE	1.97	1.18
26:X2:329:ARG:HE	34:i:475:ILE:CD1	1.55	1.18
28:Z3:526:ARG:HB3	30:b3:206:ASN:CB	1.72	1.18
28:Z4:524:VAL:CA	30:b4:236:THR:HG22	1.72	1.18
28:Z4:563:GLU:OE2	30:b4:302:ASN:O	1.61	1.18
1:A3:1188:ASN:HB3	3:A6:645:PHE:HB3	1.25	1.17
1:A3:1197:ALA:N	3:A6:609:GLU:HA	1.58	1.17
1:A3:1229:VAL:HG22	3:A6:574:ARG:HA	1.22	1.17
2:A4:677:ALA:CA	3:A6:98:LEU:CD1	2.10	1.17
2:A4:893:LEU:HD22	3:A6:176:LEU:C	1.69	1.17
2:A4:983:LEU:CD1	6:D3:553:PHE:HB3	1.72	1.17
3:A5:165:PHE:N	5:C2:743:LEU:CB	2.05	1.17
3:A6:1391:ARG:CB	28:Z4:908:LEU:O	1.91	1.17
3:A6:1406:GLY:N	26:X4:744:MET:CB	2.06	1.17
11:I2:976:ARG:NH2	20:R3:143:PHE:O	1.73	1.17
11:I2:1106:LYS:CA	16:N3:439:ARG:NH1	1.97	1.17
17:O3:155:VAL:HB	18:P3:321:ILE:HG23	1.19	1.17
23:U1:16:SER:CA	31:c2:470:ARG:HE	1.38	1.17
23:U1:35:PRO:HB2	31:c2:556:GLN:NE2	1.58	1.17
23:U1:172:LYS:CG	31:c1:506:HIS:CA	2.11	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:401:THR:C	30:b1:254:SER:CB	2.09	1.17
28:Z2:526:ARG:HB3	30:b2:206:ASN:CB	1.72	1.17
28:Z4:555:LYS:HE3	30:b4:216:LEU:CD2	1.63	1.17
2:A2:781:ARG:CG	6:D1:673:ARG:HB3	1.74	1.17
2:A2:873:PRO:O	6:D1:563:GLU:HB3	1.44	1.17
2:A2:973:GLU:HG3	6:D1:192:TYR:CE1	1.80	1.17
1:A3:1021:LEU:HD11	6:D3:819:ASN:ND2	1.58	1.17
1:A3:1052:THR:OG1	6:D3:816:VAL:HB	1.00	1.17
1:A3:1056:PHE:HE2	6:D3:806:ASP:O	1.28	1.17
1:A3:1224:PRO:CA	2:A4:731:ILE:HD13	1.74	1.17
1:A3:1240:HIS:ND1	3:A6:118:SER:CB	1.99	1.17
1:A3:1389:SER:CB	3:A6:224:PRO:CB	2.23	1.17
2:A4:710:LEU:CD2	3:A6:479:VAL:O	1.92	1.17
2:A4:727:ASN:HB2	3:A6:497:GLY:CA	1.73	1.17
2:A4:756:ALA:CA	3:A6:387:THR:O	1.92	1.17
2:A4:780:GLU:CB	6:D3:679:ILE:CD1	2.21	1.17
2:A4:789:LEU:CD2	3:A6:146:LYS:CG	2.11	1.17
2:A4:925:LYS:HD3	3:A6:233:THR:CA	1.48	1.17
3:A6:520:GLU:N	6:D3:681:ALA:N	1.91	1.17
4:B5:344:ALA:CB	5:C2:740:ARG:NH2	2.07	1.17
11:I1:833:PHE:CE2	17:O1:238:ALA:O	1.96	1.17
11:I1:837:MET:SD	17:O1:242:ARG:N	0.99	1.17
11:I1:1109:LEU:HG	16:N1:438:LEU:HA	1.21	1.17
11:I1:1673:VAL:N	11:I2:1611:PHE:C	2.01	1.17
11:I2:1024:PHE:CB	16:N3:406:HIS:ND1	2.04	1.17
11:I2:1041:GLN:HE22	15:M3:617:THR:HG22	1.09	1.17
11:I2:1105:TRP:CB	16:N3:439:ARG:NH2	2.04	1.17
11:I4:1274:HIS:N	26:X3:524:SER:OG	1.76	1.17
23:U1:18:THR:O	31:c2:472:GLU:N	1.75	1.17
23:U2:391:HIS:HB3	31:c4:476:PRO:C	1.67	1.17
23:U2:432:TYR:CD2	31:c4:539:ILE:HD12	1.78	1.17
26:X2:321:ALA:N	34:i:84:ARG:NE	1.91	1.17
28:Z4:528:ILE:O	30:b4:184:SER:CB	1.82	1.17
1:A1:874:VAL:HB	6:D3:276:GLY:O	1.40	1.17
1:A3:1321:MET:SD	3:A6:126:ARG:NH2	2.16	1.17
1:A3:1332:ARG:CG	6:D3:636:ASP:HB3	1.74	1.17
2:A4:549:ALA:CB	3:A6:365:MET:HE2	1.57	1.17
2:A4:720:LEU:CD2	3:A6:494:PRO:HB3	1.67	1.17
2:A4:781:ARG:NH2	6:D3:633:LYS:CD	2.07	1.17
2:A4:866:SER:OG	3:A6:136:GLU:CG	1.91	1.17
2:A4:886:PHE:HB3	3:A6:175:GLU:CB	1.57	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:954:ILE:CA	4:B6:345:LYS:HA	1.74	1.17
3:A5:1090:SER:O	11:I5:36:GLU:HG3	0.99	1.17
3:A5:1098:ARG:CD	11:I5:29:GLN:CG	2.15	1.17
3:A6:520:GLU:CG	6:D3:681:ALA:CB	2.10	1.17
8:F1:1264:ARG:O	17:O2:265:ASN:CB	1.92	1.17
11:I2:850:ILE:HG22	15:M3:598:GLU:CG	1.73	1.17
11:I2:938:CYS:SG	15:M3:606:LEU:CD1	2.32	1.17
11:I2:939:ASN:HA	17:O3:264:ILE:O	1.37	1.17
11:I2:944:GLU:CA	17:O3:256:TYR:CD1	2.21	1.17
11:I3:1275:SER:CB	26:X1:522:MET:CA	1.91	1.17
22:T1:824:VAL:HG21	31:c5:54:ASN:C	1.67	1.17
23:U1:135:ARG:NH2	31:c1:639:GLN:HG3	1.60	1.17
23:U2:35:PRO:HB3	31:c4:531:TRP:NE1	1.59	1.17
23:U2:395:CYS:O	31:c4:555:VAL:N	1.75	1.17
26:X2:291:LEU:CB	34:i:415:SER:CB	2.20	1.17
26:X2:369:GLU:HG2	34:i:428:LEU:CG	1.73	1.17
28:Z2:563:GLU:OE2	30:b2:302:ASN:O	1.61	1.17
28:Z3:524:VAL:N	30:b3:238:ASN:HB2	1.26	1.17
1:A1:1224:PRO:HA	2:A2:723:PHE:O	1.42	1.17
2:A2:1136:LYS:CG	3:A5:138:LEU:CB	2.20	1.17
1:A3:1099:GLN:NE2	11:I2:1415:SER:O	1.77	1.17
1:A3:1153:LEU:HD13	3:A6:592:ASP:OD2	1.43	1.17
1:A3:1167:CYS:CB	3:A6:643:ALA:HB1	1.74	1.17
1:A3:1249:PHE:CB	3:A6:587:VAL:HG21	1.75	1.17
1:A3:1278:PRO:CB	3:A6:624:ASP:N	2.07	1.17
2:A4:672:ARG:CG	3:A6:96:PRO:CB	2.21	1.17
2:A4:677:ALA:N	3:A6:98:LEU:HA	1.41	1.17
2:A4:978:ASP:HB3	6:D3:476:VAL:CB	1.52	1.17
2:A4:984:ALA:C	6:D3:498:GLU:HA	1.50	1.17
3:A5:1026:PRO:CD	11:I5:66:LEU:HD23	1.72	1.17
3:A5:1027:HIS:ND1	11:I5:65:LYS:C	2.03	1.17
3:A5:1391:ARG:HA	28:Z2:871:HIS:CA	1.74	1.17
6:D6:800:PRO:HB3	22:T3:765:LYS:CG	1.73	1.17
6:D7:530:ARG:HG2	11:I3:181:GLN:HB2	1.21	1.17
8:F1:158:PRO:CG	11:I1:1207:PRO:CD	2.10	1.17
8:F1:1137:GLN:CB	17:O2:248:SER:N	2.02	1.17
11:I1:922:ASP:HB3	15:M1:589:GLY:HA2	1.26	1.17
11:I1:957:SER:CA	20:R1:168:LEU:HG	1.75	1.17
11:I2:833:PHE:CZ	17:O3:242:ARG:N	2.13	1.17
11:I2:850:ILE:HG23	15:M3:598:GLU:OE2	1.00	1.17
11:I2:976:ARG:HB3	20:R3:149:ARG:N	1.58	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1029:LEU:HD12	16:N3:433:GLU:OE1	1.45	1.17
11:I2:1035:GLN:HA	15:M3:626:HIS:HB2	1.25	1.17
11:I2:1052:LEU:CB	17:O3:283:ALA:CB	2.15	1.17
11:I2:1106:LYS:CB	16:N3:440:GLU:OE2	1.91	1.17
23:U2:14:LYS:HA	31:c4:468:THR:O	1.44	1.17
23:U2:395:CYS:HB3	31:c4:552:ARG:O	1.43	1.17
23:U2:407:VAL:O	31:c4:542:LYS:HA	1.43	1.17
24:V1:287:ASN:OD1	31:c1:11:TYR:CG	1.96	1.17
24:V1:287:ASN:CA	31:c1:11:TYR:CZ	2.27	1.17
26:X2:283:ASP:OD2	34:i:15:GLN:CG	1.92	1.17
28:Z3:535:ILE:HG12	30:b3:182:PRO:CB	1.74	1.17
28:Z4:535:ILE:HG13	30:b4:182:PRO:CB	1.75	1.17
2:A2:858:ALA:C	6:D1:606:LYS:HE2	1.69	1.17
2:A2:878:LEU:CD1	6:D1:608:ILE:HG23	1.73	1.17
1:A3:1306:PRO:CB	3:A6:715:GLU:CB	2.23	1.17
2:A4:642:ARG:C	3:A6:501:VAL:CG1	2.18	1.17
2:A4:669:LEU:HD22	3:A6:542:LEU:N	1.58	1.17
2:A4:718:GLU:HG2	3:A6:492:SER:N	1.58	1.17
2:A4:857:LYS:CD	3:A6:129:ASN:HB2	1.75	1.17
2:A4:897:ASN:N	3:A6:165:PHE:CA	2.07	1.17
2:A4:909:LYS:O	6:D3:555:ARG:CG	1.81	1.17
11:I1:981:VAL:HG11	20:R1:151:LYS:CB	1.69	1.17
11:I2:891:LEU:HD11	16:N3:393:ILE:CD1	1.70	1.17
11:I2:936:LYS:CA	15:M3:609:GLY:HA3	1.74	1.17
11:I2:1046:HIS:N	15:M3:619:ILE:HD11	1.58	1.17
23:U1:25:GLU:HB2	31:c2:565:GLN:HE21	1.07	1.17
23:U2:359:ILE:HB	31:c4:544:VAL:O	1.01	1.17
26:X2:196:ASP:HA	34:i:438:LEU:O	1.39	1.17
26:X2:283:ASP:CG	34:i:15:GLN:HG3	1.67	1.17
26:X2:306:TRP:CA	34:i:405:TYR:C	2.18	1.17
28:Z2:531:LYS:HD3	30:b2:183:LEU:CA	1.72	1.17
2:A2:780:GLU:HG2	6:D1:679:ILE:N	0.90	1.16
2:A2:1155:ASN:HB3	3:A5:177:ILE:HG13	1.24	1.16
1:A3:1186:TRP:O	3:A6:618:ALA:CB	1.91	1.16
1:A3:1236:GLN:CA	3:A6:581:LYS:CB	2.24	1.16
1:A3:1249:PHE:CD2	3:A6:633:MET:CG	2.21	1.16
1:A3:1261:TYR:CE2	3:A6:616:ALA:CB	2.27	1.16
1:A3:1277:TRP:CB	3:A6:556:PRO:HG2	1.74	1.16
2:A4:715:GLU:OE2	3:A6:516:TRP:CD1	1.97	1.16
2:A4:867:GLU:N	6:D3:605:THR:HG22	1.59	1.16
2:A4:947:LYS:NZ	3:A6:235:TYR:CD2	1.93	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:232:LEU:CG	5:C2:739:MET:H	1.58	1.16
3:A5:996:ASN:ND2	11:I5:58:ALA:CB	1.94	1.16
3:A5:999:SER:O	11:I5:64:LYS:HD2	1.29	1.16
3:A5:1098:ARG:NE	11:I5:29:GLN:HG2	0.85	1.16
11:I1:921:GLU:CB	15:M1:596:ILE:HD11	1.56	1.16
11:I1:922:ASP:N	15:M1:592:LEU:CG	2.04	1.16
11:I1:1020:ALA:HB1	16:N1:407:ALA:N	1.56	1.16
11:I1:1664:PHE:O	11:I2:1664:PHE:O	1.61	1.16
11:I2:886:LEU:HD12	17:O3:245:GLU:CB	1.66	1.16
11:I2:967:SER:HB2	15:M3:625:GLY:CA	1.70	1.16
11:I2:989:GLY:HA3	15:M3:614:ASP:OD1	0.99	1.16
18:P1:279:GLY:HA3	18:P4:326:GLN:NE2	1.33	1.16
23:U1:24:ILE:HG21	31:c2:471:LEU:CD2	1.66	1.16
23:U2:410:SER:HA	31:c4:540:HIS:O	1.41	1.16
26:X2:302:THR:H	34:i:333:LEU:CB	1.57	1.16
26:X2:309:LEU:CD2	34:i:396:HIS:O	1.92	1.16
28:Z4:531:LYS:HD3	30:b4:183:LEU:CA	1.72	1.16
28:Z4:535:ILE:HG12	30:b4:182:PRO:CB	1.74	1.16
2:A2:965:LYS:CG	6:D1:196:ILE:O	1.92	1.16
1:A3:1332:ARG:HG3	6:D3:636:ASP:CB	1.75	1.16
2:A4:89:LEU:CD1	3:A6:404:LEU:O	1.91	1.16
2:A4:710:LEU:O	3:A6:490:PHE:CB	1.91	1.16
2:A4:754:HIS:CD2	3:A6:538:ALA:HA	1.76	1.16
2:A4:771:ILE:HD11	3:A6:476:PHE:CE2	1.80	1.16
2:A4:826:ASN:ND2	3:A6:565:THR:CB	2.07	1.16
2:A4:986:THR:HG21	6:D3:504:LYS:CD	1.64	1.16
2:A4:1151:THR:CA	5:C4:733:LEU:HD12	1.73	1.16
3:A5:1027:HIS:ND1	11:I5:65:LYS:HB3	1.61	1.16
3:A6:1366:LEU:O	28:Z4:874:ASN:CB	1.91	1.16
8:F1:1266:MET:HG3	17:O2:262:ASP:CG	1.70	1.16
11:I1:873:ILE:CG2	17:O1:254:ARG:HG2	1.74	1.16
11:I1:946:THR:OG1	17:O1:260:LEU:HD22	1.45	1.16
11:I1:956:ILE:HG23	20:R1:166:LEU:HB3	1.18	1.16
11:I1:992:ILE:H	15:M1:608:LYS:HG2	1.06	1.16
11:I2:978:LYS:HZ1	20:R3:155:GLU:N	1.41	1.16
11:I2:984:GLU:OE2	15:M3:615:PRO:CA	1.93	1.16
11:I2:997:SER:OG	16:N3:427:VAL:CG2	1.91	1.16
11:I2:1058:GLY:C	17:O3:277:GLU:CA	2.13	1.16
21:S4:1032:ILE:HD11	21:S4:1054:LEU:HB2	1.26	1.16
23:U1:38:ILE:HD11	31:c2:474:ASN:N	1.59	1.16
23:U1:202:LEU:CD1	31:c1:571:GLN:CG	2.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:196:ASP:N	34:i:364:TYR:CZ	2.08	1.16
2:A2:227:SER:HB2	6:D1:711:PHE:CD2	1.80	1.16
2:A2:827:ILE:C	2:A2:863:GLN:CB	1.88	1.16
2:A2:970:PHE:N	6:D1:196:ILE:HD11	1.11	1.16
1:A3:1261:TYR:CD1	3:A6:621:GLN:CA	2.25	1.16
2:A4:550:VAL:CG2	3:A6:367:ASP:HB2	1.68	1.16
2:A4:692:VAL:O	3:A6:466:ALA:O	1.63	1.16
2:A4:701:ILE:HG21	3:A6:481:ARG:HB3	1.17	1.16
2:A4:714:GLN:O	3:A6:492:SER:N	1.77	1.16
2:A4:760:LEU:HD12	3:A6:388:GLU:CD	1.71	1.16
2:A4:872:ALA:CB	6:D3:565:MET:CE	1.99	1.16
2:A4:873:PRO:HG3	6:D3:572:GLU:CD	1.69	1.16
11:I1:882:LYS:HB2	17:O1:245:GLU:C	1.70	1.16
11:I1:1033:PRO:O	16:N1:441:PHE:CE1	1.97	1.16
11:I1:1043:LEU:HA	16:N1:430:ARG:HB2	1.26	1.16
11:I2:833:PHE:C	17:O3:241:SER:HB2	1.60	1.16
11:I2:942:HIS:CB	17:O3:259:ASP:O	1.85	1.16
11:I2:944:GLU:CA	17:O3:256:TYR:CE1	2.27	1.16
11:I2:962:ILE:HD13	15:M3:596:ILE:HG22	1.24	1.16
11:I2:990:GLU:HB3	17:O3:272:SER:HA	1.20	1.16
11:I2:1106:LYS:HA	16:N3:439:ARG:NH1	1.32	1.16
11:I3:777:SER:O	29:a2:40[A]:GLU:OE2	1.60	1.16
21:S1:597:ILE:HA	21:S2:1120:PRO:CD	1.76	1.16
26:X2:301:SER:CA	34:i:334:TYR:O	1.92	1.16
26:X2:315:GLN:HB3	34:i:399:PRO:CB	1.74	1.16
27:Y1:41:ASP:CA	29:a1:231[B]:HIS:NE2	2.09	1.16
27:Y4:41:ASP:CA	29:a4:231[B]:HIS:NE2	2.08	1.16
28:Z1:563:GLU:OE2	30:b1:302:ASN:O	1.61	1.16
28:Z2:401:THR:C	30:b2:254:SER:CB	2.08	1.16
28:Z3:563:GLU:OE2	30:b3:302:ASN:O	1.61	1.16
1:A1:834:GLU:HB2	6:D3:302:PRO:CG	1.76	1.16
2:A2:872:ALA:HB1	6:D1:565:MET:HA	1.19	1.16
2:A2:872:ALA:HB1	6:D1:565:MET:CA	1.75	1.16
2:A2:977:VAL:C	6:D1:496:LEU:HD12	1.71	1.16
1:A3:1201:ARG:CB	2:A4:728:LYS:O	1.93	1.16
1:A3:1230:TYR:CE1	3:A6:609:GLU:C	2.22	1.16
1:A3:1392:ARG:CB	3:A6:225:THR:OG1	1.93	1.16
2:A4:537:ALA:N	3:A6:368:SER:HA	1.09	1.16
2:A4:703:SER:N	3:A6:465:SER:O	1.77	1.16
2:A4:715:GLU:CD	3:A6:516:TRP:CD1	2.24	1.16
2:A4:780:GLU:HG2	3:A6:523:ASN:C	1.68	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:780:GLU:HB2	3:A6:524:ARG:HB3	1.25	1.16
2:A4:806:PHE:CB	3:A6:382:SER:CB	2.14	1.16
2:A4:866:SER:C	6:D3:598:ILE:CG1	2.18	1.16
3:A5:150:PHE:HE2	5:C2:740:ARG:O	1.29	1.16
11:I1:984:GLU:CB	15:M1:614:ASP:O	1.92	1.16
11:I1:1066:LEU:HB3	16:N1:430:ARG:CD	1.75	1.16
11:I2:884:LEU:HB2	16:N3:400:LEU:CD1	1.76	1.16
11:I2:884:LEU:CB	16:N3:400:LEU:HD12	1.74	1.16
11:I2:1029:LEU:HB3	20:R3:174:ARG:CG	1.74	1.16
11:I2:1033:PRO:CB	20:R3:177:LEU:HG	1.44	1.16
11:I2:1039:ALA:HA	20:R3:170:LEU:CD1	1.74	1.16
11:I2:1110:SER:CB	16:N3:438:LEU:H	1.51	1.16
17:O3:101:ASN:OD1	18:P3:322:LYS:HG2	1.42	1.16
23:U2:14:LYS:CA	31:c4:468:THR:C	1.75	1.16
23:U2:391:HIS:CB	31:c4:477:GLU:HA	1.75	1.16
23:U2:435:PHE:CD1	31:c4:539:ILE:HB	1.81	1.16
24:V1:280:GLU:HG3	31:c1:28:LYS:NZ	1.60	1.16
26:X2:280:VAL:HG13	34:i:14:TRP:HE1	1.08	1.16
26:X2:306:TRP:CA	34:i:405:TYR:O	1.93	1.16
27:Y2:41:ASP:CA	29:a2:231[B]:HIS:NE2	2.09	1.16
27:Y3:41:ASP:C	29:a3:231[B]:HIS:NE2	2.04	1.16
28:Z4:528:ILE:H	30:b4:208:ASN:ND2	1.44	1.16
1:A1:1202:GLU:O	2:A2:732:GLN:HA	1.46	1.16
2:A2:874:VAL:N	6:D1:568:ARG:HA	1.50	1.16
2:A2:1149:THR:HA	5:C2:730:HIS:O	1.30	1.16
1:A3:1233:GLN:CB	3:A6:601:PHE:HE1	1.58	1.16
1:A3:1250:PRO:CG	3:A6:635:ARG:CA	2.18	1.16
1:A3:1254:LEU:O	3:A6:638:GLU:OE2	1.62	1.16
2:A4:542:LEU:HD23	3:A6:364:HIS:ND1	1.53	1.16
2:A4:677:ALA:HA	3:A6:98:LEU:HD12	1.20	1.16
2:A4:769:GLU:HB2	3:A6:471:PHE:CE2	1.79	1.16
2:A4:824:ASN:OD1	2:A4:859:GLN:CD	1.86	1.16
2:A4:908:LEU:HG	6:D3:601:PHE:O	1.43	1.16
2:A4:976:LEU:CD2	6:D3:472:PHE:HD2	1.59	1.16
2:A4:976:LEU:CG	6:D3:501:LEU:HB3	1.75	1.16
3:A5:234:LEU:CD2	5:C2:738:ASP:O	1.94	1.16
11:I1:842:ASN:HA	15:M1:587:GLU:HG3	1.26	1.16
11:I1:885:GLU:HA	16:N1:397:GLU:CD	1.46	1.16
11:I1:1020:ALA:CB	16:N1:406:HIS:C	2.18	1.16
11:I1:1056:PRO:CA	17:O1:278:GLU:HB2	1.64	1.16
11:I1:1607:GLN:HE21	11:I2:1736:LEU:HD12	1.01	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:898:VAL:CG2	17:O3:237:PRO:CD	2.23	1.16
11:I2:931:VAL:CA	15:M3:601:ASP:O	1.90	1.16
11:I2:950:LEU:HD12	16:N3:410:MET:HB3	1.24	1.16
11:I2:980:ILE:CG2	15:M3:621:ARG:HB2	1.74	1.16
11:I2:1021:ILE:CA	16:N3:406:HIS:CE1	2.28	1.16
18:P2:319:VAL:HG23	18:P3:278:ASN:OD1	1.26	1.16
23:U1:398:ILE:H	31:c2:552:ARG:NH2	1.38	1.16
26:X2:299:SER:HB2	34:i:369:VAL:O	1.44	1.16
27:Y3:41:ASP:CA	29:a3:231[B]:HIS:NE2	2.09	1.16
28:Z1:402:GLY:HA2	30:b1:273:LYS:HB2	1.24	1.16
28:Z2:535:ILE:HG13	30:b2:182:PRO:CB	1.75	1.16
1:A3:835:THR:HG21	6:D1:302:PRO:CG	1.74	1.15
1:A3:1274:ASP:HB3	3:A6:556:PRO:CD	1.74	1.15
2:A4:670:SER:OG	3:A6:542:LEU:HD21	1.41	1.15
2:A4:889:VAL:CG1	3:A6:171:HIS:HB2	1.71	1.15
2:A4:949:PHE:CB	4:B6:348:PRO:CD	2.20	1.15
3:A5:164:LEU:HB2	5:C2:742:ASP:OD2	1.00	1.15
3:A5:1365:VAL:O	28:Z2:841:ALA:HB1	1.43	1.15
3:A5:1369:ILE:HG21	28:Z2:830:LEU:CB	1.29	1.15
6:D5:243:LYS:HB2	31:c3:470:ARG:NH2	1.55	1.15
9:G1:258:LYS:O	17:O2:256:TYR:HB2	1.42	1.15
11:I1:797:LEU:HD22	17:O1:245:GLU:HG3	1.16	1.15
11:I1:841:PHE:CE1	17:O1:243:LEU:HD11	1.80	1.15
11:I1:873:ILE:O	17:O1:251:ILE:CG2	1.95	1.15
11:I1:1114:VAL:N	16:N1:435:ALA:CB	2.08	1.15
11:I2:899:LEU:HD23	17:O3:235:ASN:CG	1.70	1.15
11:I2:977:ASN:CB	20:R3:150:ASN:HB3	1.00	1.15
11:I2:1109:LEU:HB3	16:N3:438:LEU:HA	1.17	1.15
11:I4:1282:PHE:CE2	29:a3:24[B]:GLY:C	2.24	1.15
23:U2:432:TYR:CD1	31:c4:464:LEU:HD13	1.75	1.15
26:X2:368:LEU:N	34:i:441:LEU:CD2	2.06	1.15
28:Z1:535:ILE:HG13	30:b1:182:PRO:CB	1.75	1.15
1:A3:1236:GLN:N	3:A6:578:ILE:O	1.79	1.15
1:A3:1270:SER:CB	3:A6:709:LYS:NZ	2.07	1.15
1:A3:1277:TRP:CB	3:A6:556:PRO:CG	2.24	1.15
2:A4:87:GLN:N	3:A6:393:HIS:H	1.44	1.15
2:A4:602:ILE:CG1	3:A6:506:SER:OG	1.93	1.15
2:A4:616:ALA:HB1	3:A6:109:ASP:OD2	1.47	1.15
2:A4:648:TYR:CG	3:A6:503:GLN:HG3	1.68	1.15
2:A4:672:ARG:NH2	3:A6:94:SER:O	1.79	1.15
2:A4:865:ALA:CA	6:D3:567:LEU:HD22	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:484:PRO:CG	6:D3:672:GLU:CG	1.99	1.15
8:F1:1267:ARG:HG3	17:O2:265:ASN:OD1	1.00	1.15
11:I1:1029:LEU:HD13	20:R1:174:ARG:HD3	1.23	1.15
11:I1:1109:LEU:HD11	17:O1:290:TYR:CD2	1.72	1.15
11:I1:1739:GLU:C	11:I2:1604:ALA:HA	1.70	1.15
11:I2:879:VAL:O	17:O3:246:LEU:O	1.64	1.15
11:I2:883:ALA:HB1	17:O3:246:LEU:HB3	1.27	1.15
11:I2:931:VAL:C	15:M3:605:THR:HG23	1.68	1.15
11:I2:947:LEU:HD12	17:O3:260:LEU:CD2	1.76	1.15
17:O2:110:LEU:CD2	18:P2:321:ILE:C	2.06	1.15
17:O4:107:THR:HG22	18:P4:321:ILE:HD12	1.22	1.15
23:U1:25:GLU:N	31:c2:563:ARG:HD3	1.55	1.15
26:X2:308:ASN:HD22	34:i:315:LEU:CG	1.60	1.15
27:Y1:41:ASP:C	29:a1:231[B]:HIS:NE2	2.04	1.15
28:Z3:401:THR:C	30:b3:254:SER:CB	2.09	1.15
28:Z3:551:THR:CG2	30:b3:233:TRP:CH2	2.17	1.15
28:Z4:522:ASN:N	30:b4:241:PRO:HG3	1.53	1.15
1:A1:834:GLU:HB2	6:D3:302:PRO:HG3	1.26	1.15
1:A1:874:VAL:CG2	6:D3:272:VAL:CB	2.25	1.15
2:A2:907:SER:HB3	6:D1:600:LYS:O	1.46	1.15
2:A2:1154:PHE:HE1	4:B5:342:ARG:CD	1.59	1.15
1:A3:1230:TYR:CD2	3:A6:575:LEU:CD1	2.20	1.15
2:A4:611:ILE:HG21	3:A6:508:LEU:HD11	1.20	1.15
2:A4:648:TYR:CD2	3:A6:504:PRO:N	1.88	1.15
2:A4:712:THR:HG21	3:A6:461:ALA:CB	1.76	1.15
2:A4:789:LEU:HD22	3:A6:146:LYS:CB	1.54	1.15
2:A4:854:VAL:CG1	3:A6:173:ASN:N	2.08	1.15
2:A4:886:PHE:CB	3:A6:175:GLU:CB	2.24	1.15
3:A5:1368:GLN:CB	28:Z2:841:ALA:CA	2.14	1.15
3:A6:1368:GLN:HB3	28:Z4:878:HIS:CB	1.76	1.15
3:A6:1403:MSE:HG2	26:X4:742:ALA:C	1.70	1.15
8:F1:1264:ARG:HG2	17:O2:263:GLN:O	1.45	1.15
11:I1:874:LEU:HD23	17:O1:252:VAL:HA	1.24	1.15
11:I1:984:GLU:HB3	15:M1:618:GLN:NE2	1.62	1.15
11:I1:1677:LYS:HD2	11:I2:1635:HIS:CE1	1.81	1.15
11:I2:898:VAL:CG2	17:O3:236:ASP:CA	2.23	1.15
11:I2:898:VAL:HG23	17:O3:236:ASP:CA	1.76	1.15
11:I2:921:GLU:N	15:M3:592:LEU:HG	1.14	1.15
11:I2:995:SER:HA	17:O3:267:ALA:CB	1.75	1.15
17:O3:158:GLU:O	18:P3:315:GLU:CD	1.90	1.15
23:U2:396:LEU:HD13	31:c4:547:ASN:O	1.47	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:413:ILE:HG13	31:c4:541:ARG:N	1.53	1.15
26:X2:318:GLY:H	34:i:400:LYS:CE	1.57	1.15
28:Z3:522:ASN:N	30:b3:241:PRO:CG	2.02	1.15
2:A2:780:GLU:CB	6:D1:677:GLN:C	2.19	1.15
2:A2:980:ARG:NE	6:D1:525:ARG:CA	1.97	1.15
2:A2:989:MSE:CE	6:D1:241:ALA:N	2.10	1.15
2:A2:1139:ILE:HG21	3:A5:135:PHE:H	1.07	1.15
1:A3:1099:GLN:CG	11:I2:1414:CYS:O	1.94	1.15
1:A3:1267:GLN:OE1	3:A6:552:PHE:N	1.77	1.15
1:A3:1269:ALA:C	3:A6:554:GLN:HB3	1.71	1.15
2:A4:672:ARG:HA	3:A6:508:LEU:CD1	1.77	1.15
2:A4:792:VAL:H	3:A6:187:THR:CB	1.59	1.15
2:A4:871:ASN:OD1	6:D3:573:LEU:N	1.79	1.15
3:A5:160:ILE:O	5:C2:744:PHE:CD1	1.99	1.15
3:A5:221:SER:H	5:C2:738:ASP:CB	1.57	1.15
3:A5:1026:PRO:CD	11:I5:102:ILE:CD1	2.24	1.15
3:A5:1050:TYR:OH	11:I5:70:GLU:OE1	1.59	1.15
3:A6:1398:LYS:CD	28:Z4:918:PHE:HA	1.76	1.15
11:I1:980:ILE:HB	15:M1:618:GLN:C	1.70	1.15
11:I2:881:ILE:CG2	17:O3:249:ARG:HG2	1.75	1.15
11:I2:920:PHE:HA	15:M3:592:LEU:HA	1.20	1.15
11:I2:980:ILE:HD11	20:R3:147:LEU:CB	1.77	1.15
21:S1:666:THR:O	21:S2:1146:ALA:O	1.61	1.15
23:U1:202:LEU:HA	31:c1:632:HIS:HB2	1.28	1.15
23:U1:431:ILE:HG12	31:c2:469:SER:OG	1.41	1.15
23:U3:277:LEU:N	25:W4:192:GLN:HE22	1.34	1.15
26:X2:318:GLY:HA2	34:i:475:ILE:HG22	1.15	1.15
27:Y2:41:ASP:C	29:a2:231[B]:HIS:NE2	2.04	1.15
28:Z2:411:LEU:CD2	30:b2:251:ILE:HG23	1.77	1.15
28:Z4:551:THR:CG2	30:b4:233:TRP:CH2	2.17	1.15
2:A2:1137:ALA:HB1	3:A5:564:ASN:HB2	1.17	1.15
2:A2:1144:ASP:H	3:A5:129:ASN:HB3	1.11	1.15
2:A2:1153:LEU:HG	3:A5:173:ASN:CA	1.63	1.15
1:A3:1241:ARG:NH1	3:A6:593:ALA:CB	2.08	1.15
2:A4:719:ARG:O	3:A6:513:GLN:CG	1.80	1.15
2:A4:761:GLN:CD	3:A6:545:GLY:O	1.89	1.15
2:A4:865:ALA:O	6:D3:598:ILE:CD1	1.94	1.15
3:A5:234:LEU:HD23	5:C2:738:ASP:CA	1.74	1.15
3:A5:1369:ILE:HD11	28:Z2:833:ASP:H	1.05	1.15
3:A6:1368:GLN:CB	28:Z4:878:HIS:CB	2.24	1.15
8:F2:1091:SER:H	17:O4:245:GLU:N	1.12	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:252:LEU:HA	15:M2:602:MET:SD	1.87	1.15
11:I1:837:MET:CE	17:O1:242:ARG:CB	2.25	1.15
11:I1:846:ILE:CD1	15:M1:594:LYS:CD	2.23	1.15
11:I1:880:MET:CE	17:O1:247:TRP:CZ3	2.27	1.15
11:I1:952:LEU:C	16:N1:400:LEU:HD23	1.70	1.15
11:I1:983:LEU:HD11	15:M1:604:ASN:CG	1.60	1.15
11:I1:1108:PRO:HB2	16:N1:443:GLU:N	1.62	1.15
11:I1:1642:LEU:CD1	11:I2:1669:ARG:HH12	1.59	1.15
11:I2:881:ILE:CG2	17:O3:249:ARG:NH2	2.10	1.15
11:I2:890:TYR:H	17:O3:242:ARG:CD	1.59	1.15
11:I2:1067:PHE:N	16:N3:430:ARG:HG2	1.61	1.15
11:I5:1275:SER:C	26:X2:521:TRP:CD1	2.25	1.15
17:O2:111:TYR:H	18:P2:325:ILE:CG2	1.58	1.15
22:T1:812:ASP:OD2	31:c5:88:GLU:CB	1.95	1.15
23:U2:359:ILE:CB	31:c4:544:VAL:O	1.94	1.15
23:U2:396:LEU:O	31:c4:554:LEU:CD2	1.93	1.15
23:U2:410:SER:O	31:c4:541:ARG:HB3	1.45	1.15
26:X2:283:ASP:C	34:i:479:THR:HG23	1.72	1.15
26:X2:313:LEU:CA	34:i:471:ILE:HG21	1.76	1.15
26:X2:367:SER:HA	34:i:366:PHE:CE1	1.81	1.15
27:Y4:41:ASP:C	29:a4:231[B]:HIS:NE2	2.04	1.15
28:Z1:410:ASN:C	30:b1:251:ILE:CD1	2.20	1.15
28:Z4:534:ASP:HA	30:b4:164:CYS:HB2	1.21	1.15
28:Z4:558:LEU:HA	30:b4:236:THR:N	1.55	1.15
1:A1:874:VAL:CG2	6:D3:272:VAL:HB	1.76	1.14
2:A2:223:THR:CB	6:D1:709:ARG:NH2	2.10	1.14
2:A2:235:TYR:CD1	4:B2:347:LEU:HB2	1.82	1.14
2:A2:869:ALA:HB3	6:D1:574:VAL:HG23	1.25	1.14
2:A2:904:GLN:O	6:D1:602:THR:HA	1.45	1.14
2:A2:1139:ILE:HG22	3:A5:135:PHE:CD2	1.82	1.14
2:A4:702:SER:CB	3:A6:399:ASP:HB3	1.77	1.14
2:A4:760:LEU:HD12	3:A6:388:GLU:CG	1.64	1.14
2:A4:861:GLN:NE2	6:D3:607:PRO:HB3	1.61	1.14
3:A5:995:VAL:O	11:I5:61:LYS:CB	1.95	1.14
3:A6:520:GLU:CD	6:D3:681:ALA:HB2	1.70	1.14
3:A6:1327:VAL:HG11	28:Z4:961:PHE:CB	1.75	1.14
9:G1:254:ASN:O	15:M2:606:LEU:HB2	1.00	1.14
9:G2:256:GLN:NE2	17:O4:263:GLN:H	1.44	1.14
11:I1:853:ILE:HG23	17:O1:254:ARG:HD3	1.29	1.14
11:I1:900:ARG:HG3	17:O1:232:LYS:NZ	1.60	1.14
11:I1:1546:TRP:HB3	12:J2:300:ILE:CD1	1.76	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1664:PHE:CE2	11:I2:1669:ARG:N	1.82	1.14
11:I2:928:LEU:HD13	20:R3:151:LYS:HE2	1.24	1.14
11:I2:950:LEU:CD2	16:N3:410:MET:HE1	1.73	1.14
11:I2:980:ILE:CD1	20:R3:147:LEU:HB2	1.59	1.14
21:S3:176:MET:HE2	21:S3:212:LEU:HD11	1.21	1.14
23:U1:38:ILE:CA	31:c2:473:THR:HG22	1.76	1.14
23:U1:401:PRO:CA	31:c2:552:ARG:N	2.09	1.14
23:U2:356:PRO:CG	31:c4:547:ASN:OD1	1.85	1.14
26:X2:365:ILE:CG2	34:i:424:LEU:CG	2.25	1.14
28:Z2:534:ASP:HA	30:b2:164:CYS:HB2	1.21	1.14
28:Z2:555:LYS:HE2	30:b2:216:LEU:HD22	1.24	1.14
28:Z3:411:LEU:H	30:b3:251:ILE:CD1	1.49	1.14
28:Z3:558:LEU:HA	30:b3:236:THR:N	1.56	1.14
28:Z4:524:VAL:C	30:b4:208:ASN:OD1	1.91	1.14
28:Z4:555:LYS:C	30:b4:212:PHE:HA	1.65	1.14
1:A1:868:GLN:HA	6:D3:280:GLN:CG	1.76	1.14
1:A1:1221:ILE:CG2	2:A2:642:ARG:C	2.18	1.14
1:A1:1222:ALA:HA	2:A2:615:LEU:HD13	1.25	1.14
2:A2:870:HIS:CD2	6:D1:551:PHE:HB2	1.63	1.14
2:A2:983:LEU:HB3	6:D1:553:PHE:CB	1.78	1.14
1:A3:1201:ARG:NH2	3:A6:537:ALA:CB	2.10	1.14
1:A3:1241:ARG:HH12	3:A6:593:ALA:CA	1.50	1.14
1:A3:1271:ILE:CG1	3:A6:550:VAL:HB	1.77	1.14
2:A4:90:GLN:NE2	3:A6:427:MET:CA	2.08	1.14
2:A4:552:PHE:CE1	3:A6:109:ASP:OD2	1.99	1.14
2:A4:635:ARG:NH1	3:A6:600:LYS:HA	1.62	1.14
2:A4:682:ARG:NH2	3:A6:105:GLY:HA3	1.57	1.14
2:A4:763:LEU:HG	3:A6:470:ARG:HG2	1.26	1.14
2:A4:801:THR:N	3:A6:319:TYR:OH	1.80	1.14
2:A4:861:GLN:HA	6:D3:607:PRO:CD	1.77	1.14
3:A5:1368:GLN:HE22	28:Z2:840:PHE:CB	1.59	1.14
3:A5:1398:LYS:HD2	28:Z2:873:LEU:O	1.46	1.14
3:A5:1405:LEU:N	28:Z2:918:PHE:N	1.67	1.14
5:C1:732:LYS:NZ	11:I1:1225:LYS:CD	2.11	1.14
8:F1:1264:ARG:HB3	17:O2:263:GLN:HA	1.16	1.14
9:G1:256:GLN:HG2	17:O2:257:ALA:HB2	1.27	1.14
11:I1:1068:HIS:CE1	16:N1:431:VAL:HB	1.82	1.14
11:I2:1069:SER:H	16:N3:428:ASP:N	1.31	1.14
11:I4:1282:PHE:CG	29:a3:24[B]:GLY:CA	2.28	1.14
23:U1:434:THR:HG23	31:c2:479:ILE:HG23	1.28	1.14
23:U1:437:ASN:HB2	31:c2:540:HIS:CA	1.78	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:309:LEU:H	34:i:405:TYR:CA	1.60	1.14
28:Z1:411:LEU:CD2	30:b1:251:ILE:HG23	1.77	1.14
28:Z2:410:ASN:C	30:b2:251:ILE:CD1	2.20	1.14
28:Z2:558:LEU:HA	30:b2:236:THR:N	1.56	1.14
1:A1:1226:LEU:HG	2:A2:725:GLU:OE1	1.47	1.14
2:A2:826:ASN:HA	6:D1:633:LYS:HB2	1.30	1.14
2:A2:868:GLN:N	6:D1:598:ILE:HG21	1.63	1.14
2:A2:968:SER:HA	6:D1:201:LEU:O	1.44	1.14
2:A2:982:THR:CG2	6:D1:494:LEU:O	1.85	1.14
2:A2:1130:ARG:O	3:A5:160:ILE:CG2	1.95	1.14
2:A4:173:ASN:ND2	6:D3:762:ARG:C	2.04	1.14
2:A4:767:ILE:C	3:A6:476:PHE:HA	1.64	1.14
2:A4:861:GLN:O	6:D3:607:PRO:CD	1.94	1.14
2:A4:908:LEU:CD2	6:D3:601:PHE:CB	2.25	1.14
2:A4:973:GLU:N	6:D3:205:LEU:H	1.44	1.14
3:A5:994:VAL:N	11:I5:57:GLU:HG2	1.61	1.14
3:A5:1050:TYR:OH	11:I5:70:GLU:CB	1.95	1.14
3:A5:1090:SER:O	11:I5:36:GLU:CG	1.94	1.14
3:A5:1392:ARG:HH11	28:Z2:867:LYS:N	1.46	1.14
3:A6:1398:LYS:CD	28:Z4:918:PHE:CA	2.23	1.14
8:F1:1137:GLN:CG	17:O2:248:SER:N	2.10	1.14
11:I1:833:PHE:CD2	17:O1:238:ALA:CA	2.09	1.14
11:I1:843:GLU:HG2	15:M1:587:GLU:CD	1.72	1.14
11:I1:880:MET:CG	17:O1:250:LEU:HB3	1.74	1.14
11:I1:898:VAL:HB	17:O1:235:ASN:O	1.31	1.14
11:I1:920:PHE:O	15:M1:592:LEU:CA	1.66	1.14
11:I1:950:LEU:HD23	16:N1:406:HIS:HD2	1.13	1.14
11:I1:1037:THR:HA	15:M1:624:ASN:CG	1.72	1.14
11:I2:828:VAL:O	17:O3:237:PRO:HG2	1.44	1.14
11:I2:936:LYS:HA	15:M3:609:GLY:HA3	1.15	1.14
11:I2:1054:ILE:O	17:O3:281:ALA:HB3	0.96	1.14
23:U1:409:LYS:HE3	31:c2:548:VAL:CG1	1.76	1.14
23:U1:431:ILE:HD11	31:c2:469:SER:CB	1.74	1.14
23:U2:397:ASP:OD2	31:c4:537:THR:OG1	1.65	1.14
26:X2:191:ILE:HB	34:i:443:THR:CB	1.75	1.14
28:Z3:535:ILE:HG13	30:b3:182:PRO:CB	1.75	1.14
28:Z3:555:LYS:HE2	30:b3:216:LEU:HD22	1.24	1.14
1:A1:1332:ARG:NH1	6:D1:682:ASN:H	1.44	1.14
1:A3:1238:ILE:HG23	3:A6:586:CYS:HB2	1.19	1.14
2:A4:87:GLN:H	3:A6:393:HIS:N	1.44	1.14
2:A4:691:LYS:CB	3:A6:316:ARG:CD	2.16	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:793:SER:CB	3:A6:146:LYS:CD	2.25	1.14
2:A4:827:ILE:CA	2:A4:860:GLU:HA	1.63	1.14
2:A4:916:GLN:N	4:B6:342:ARG:NH1	1.77	1.14
3:A5:1395:LYS:N	28:Z2:870:ILE:O	1.80	1.14
3:A6:441:THR:HG21	6:D3:717:LEU:HA	1.14	1.14
11:I1:797:LEU:HB3	17:O1:245:GLU:CG	1.78	1.14
11:I1:883:ALA:HB2	17:O1:243:LEU:C	1.66	1.14
11:I1:922:ASP:O	15:M1:593:ALA:CB	1.93	1.14
11:I1:955:LYS:CE	16:N1:397:GLU:CA	2.26	1.14
11:I1:1047:CYS:O	20:R1:143:PHE:HE1	1.29	1.14
11:I1:1114:VAL:CG2	16:N1:435:ALA:HB3	1.77	1.14
11:I1:1669:ARG:HD2	11:I2:1605:LEU:CD1	1.77	1.14
11:I2:850:ILE:HG22	15:M3:598:GLU:HG2	1.18	1.14
11:I3:816:ASP:HA	26:X1:498:SER:HB3	1.24	1.14
11:I3:1273:GLU:HA	26:X1:523:LEU:HA	1.18	1.14
11:I4:819:MET:HB2	26:X3:501:LYS:CE	1.77	1.14
23:U1:401:PRO:CA	31:c2:551:LEU:C	2.19	1.14
23:U2:405:GLU:HB2	31:c4:544:VAL:CG2	1.76	1.14
23:U2:430:PRO:O	31:c4:461:PHE:N	1.80	1.14
26:X2:361:LEU:HD12	34:i:445:GLN:NE2	1.39	1.14
28:Z1:524:VAL:C	30:b1:208:ASN:OD1	1.91	1.14
28:Z3:524:VAL:C	30:b3:208:ASN:OD1	1.91	1.14
2:A2:826:ASN:CA	6:D1:633:LYS:HB2	1.76	1.14
2:A2:858:ALA:O	6:D1:606:LYS:CE	1.96	1.14
2:A2:971:ALA:O	6:D1:203:PRO:HG2	1.45	1.14
1:A3:1201:ARG:HA	3:A6:546:ASN:HD21	1.11	1.14
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD12	1.22	1.14
2:A4:235:TYR:CD1	4:B4:347:LEU:HB2	1.82	1.14
2:A4:693:VAL:N	3:A6:316:ARG:NH1	1.93	1.14
2:A4:854:VAL:HG13	3:A6:173:ASN:CA	1.77	1.14
2:A4:1053:ARG:O	6:D4:762:ARG:HG2	1.47	1.14
2:A4:1151:THR:HG23	5:C4:734:VAL:H	1.04	1.14
3:A5:1026:PRO:CD	11:I5:102:ILE:HD11	1.74	1.14
3:A5:1091:VAL:HG12	11:I5:36:GLU:OE1	1.38	1.14
3:A6:442:ARG:NH2	6:D3:741:ILE:CA	2.10	1.14
11:I1:880:MET:CB	17:O1:250:LEU:HB2	1.67	1.14
11:I1:924:ILE:HG12	15:M1:592:LEU:O	0.99	1.14
11:I1:976:ARG:N	20:R1:149:ARG:HH11	1.46	1.14
11:I1:981:VAL:HG11	20:R1:151:LYS:HB2	1.15	1.14
11:I1:992:ILE:N	15:M1:608:LYS:HG3	1.37	1.14
11:I1:1018:LYS:HE2	16:N1:413:VAL:CG1	1.67	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1043:LEU:HB3	16:N1:430:ARG:O	1.47	1.14
11:I1:1055:GLU:HG2	17:O1:280:GLU:CG	1.76	1.14
11:I1:1066:LEU:HB3	16:N1:430:ARG:CB	1.77	1.14
11:I2:879:VAL:C	17:O3:249:ARG:N	1.88	1.14
11:I2:980:ILE:HG23	15:M3:621:ARG:CB	1.77	1.14
11:I2:1051:LYS:CE	17:O3:289:ASP:OD1	1.95	1.14
22:T1:825:ASP:HB3	31:c5:23:ARG:HD3	1.28	1.14
23:U1:23:LYS:HD3	31:c2:468:THR:OG1	1.47	1.14
26:X2:192:LEU:HD13	34:i:442:SER:OG	1.48	1.14
26:X2:315:GLN:HB2	34:i:399:PRO:O	1.45	1.14
28:Z1:557:CYS:CB	30:b1:210:ARG:HH11	1.48	1.14
28:Z2:528:ILE:H	30:b2:208:ASN:ND2	1.44	1.14
28:Z3:524:VAL:CG1	30:b3:236:THR:CB	2.12	1.14
1:A3:1188:ASN:CB	3:A6:645:PHE:HB3	1.77	1.13
1:A3:1191:ASN:OD1	3:A6:619:CYS:SG	2.05	1.13
1:A3:1244:LEU:HB3	3:A6:633:MET:CE	1.76	1.13
1:A3:1332:ARG:CZ	6:D3:636:ASP:OD1	1.96	1.13
2:A4:684:VAL:CG2	3:A6:405:PHE:CZ	2.31	1.13
2:A4:714:GLN:O	3:A6:491:VAL:C	1.92	1.13
2:A4:904:GLN:OE1	3:A6:133:LYS:O	1.64	1.13
3:A6:1415:PHE:CE1	28:Z4:996:LYS:CB	2.12	1.13
9:G1:258:LYS:HB2	17:O2:253:LEU:HD21	1.18	1.13
11:I2:964:SER:H	20:R3:165:SER:CB	1.60	1.13
11:I2:1106:LYS:HB2	16:N3:440:GLU:CD	1.73	1.13
11:I5:536:GLU:C	25:W2:8:HIS:N	2.05	1.13
22:T2:836:ALA:O	31:c4:333:LEU:CD2	1.94	1.13
23:U2:40:ARG:NH1	31:c4:560:ASN:CB	2.08	1.13
26:X2:321:ALA:HB2	34:i:84:ARG:HD3	1.14	1.13
26:X2:365:ILE:HG12	34:i:421:ILE:HG23	1.15	1.13
28:Z2:401:THR:HB	30:b2:253:SER:O	1.48	1.13
28:Z2:524:VAL:N	30:b2:238:ASN:HB2	1.26	1.13
28:Z4:401:THR:HB	30:b4:253:SER:O	1.48	1.13
28:Z4:410:ASN:C	30:b4:251:ILE:CD1	2.20	1.13
2:A2:781:ARG:N	6:D1:673:ARG:O	1.81	1.13
1:A3:1194:HIS:CE1	3:A6:552:PHE:CE2	2.35	1.13
1:A3:1257:VAL:CG1	3:A6:620:GLY:N	2.11	1.13
1:A3:1325:MET:CE	3:A6:126:ARG:CZ	2.26	1.13
2:A4:95:TYR:O	3:A6:364:HIS:CB	1.95	1.13
2:A4:607:ARG:HA	3:A6:506:SER:HB3	1.19	1.13
2:A4:702:SER:O	3:A6:399:ASP:CB	1.76	1.13
2:A4:722:ASN:N	3:A6:572:ARG:HH22	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:796:GLN:N	3:A6:249:SER:HB2	1.55	1.13
2:A4:798:LYS:HD2	3:A6:314:TRP:NE1	1.62	1.13
2:A4:864:ARG:CB	6:D3:607:PRO:HD2	1.79	1.13
2:A4:970:PHE:C	6:D3:202:GLN:CG	2.20	1.13
2:A4:989:MSE:HE2	6:D3:240:ASP:CG	1.74	1.13
2:A4:1151:THR:CG2	5:C4:734:VAL:H	1.43	1.13
3:A5:1094:ILE:CG1	11:I5:4:LEU:HD12	1.78	1.13
3:A6:519:LEU:O	6:D3:686:ASP:OD1	1.65	1.13
3:A6:1370:ALA:HB3	28:Z4:870:ILE:O	1.45	1.13
11:I1:919:ALA:O	15:M1:592:LEU:HD22	1.45	1.13
11:I1:927:HIS:O	15:M1:597:LYS:CB	1.85	1.13
11:I1:1029:LEU:HD22	20:R1:174:ARG:HG3	1.17	1.13
11:I1:1063:GLN:O	16:N1:428:ASP:HB2	1.48	1.13
11:I1:1066:LEU:HB3	16:N1:430:ARG:HD3	1.26	1.13
11:I1:1611:PHE:HB3	11:I2:1672:VAL:HG22	1.20	1.13
11:I2:853:ILE:HG12	17:O3:254:ARG:CD	1.78	1.13
11:I2:967:SER:CB	15:M3:625:GLY:HA2	1.73	1.13
11:I2:983:LEU:HA	15:M3:612:PRO:O	1.48	1.13
11:I2:1020:ALA:O	16:N3:406:HIS:HA	1.45	1.13
11:I2:1034:ASP:OD1	15:M3:627:LEU:HA	1.46	1.13
11:I2:1050:SER:O	17:O3:290:TYR:N	1.79	1.13
11:I2:1055:GLU:C	17:O3:278:GLU:HA	1.72	1.13
11:I3:815:ILE:HG23	26:X1:497:ARG:H	1.08	1.13
11:I4:819:MET:CE	27:Y3:178:PHE:CZ	2.32	1.13
21:S1:666:THR:C	21:S2:1146:ALA:O	1.75	1.13
23:U1:26:GLN:HB3	31:c2:562:LEU:HB2	1.16	1.13
23:U2:398:ILE:HD13	31:c4:531:TRP:CE2	1.83	1.13
23:U3:278:GLN:HG3	25:W4:189:SER:CA	1.71	1.13
26:X2:188:MET:O	34:i:440:GLU:HG3	0.98	1.13
26:X2:191:ILE:HB	34:i:443:THR:HB	1.25	1.13
26:X2:204:PHE:CZ	34:i:444:GLU:CG	2.30	1.13
26:X2:287:ASP:CG	34:i:480[B]:MET:CG	2.20	1.13
26:X2:366:PRO:O	34:i:366:PHE:CZ	2.02	1.13
28:Z1:528:ILE:H	30:b1:208:ASN:ND2	1.44	1.13
1:A1:1204:TRP:CH2	2:A2:757:LEU:CD2	2.31	1.13
2:A2:879:LEU:HG	6:D1:567:LEU:CD1	1.77	1.13
1:A3:1121:LEU:C	3:A6:599:ARG:HH22	1.53	1.13
1:A3:1196:GLU:HA	3:A6:608:VAL:CG1	1.77	1.13
1:A3:1257:VAL:CB	3:A6:638:GLU:OE2	1.78	1.13
2:A4:638:GLU:HB3	3:A6:498:ARG:HH12	1.11	1.13
2:A4:703:SER:OG	3:A6:399:ASP:HA	1.48	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:753:GLU:OE2	3:A6:542:LEU:HD23	1.35	1.13
2:A4:771:ILE:HD13	3:A6:478:ASP:HB2	1.20	1.13
2:A4:857:LYS:HD2	3:A6:129:ASN:HB2	1.22	1.13
2:A4:875:LEU:HD12	6:D3:567:LEU:CG	1.77	1.13
2:A4:889:VAL:HG11	3:A6:171:HIS:CB	1.69	1.13
3:A5:234:LEU:HD23	5:C2:738:ASP:O	1.43	1.13
3:A5:1369:ILE:CG2	28:Z2:831:LEU:N	2.11	1.13
3:A5:1395:LYS:CG	28:Z2:873:LEU:CB	2.25	1.13
8:F1:1262:HIS:ND1	17:O2:259:ASP:N	1.95	1.13
11:I1:947:LEU:HD13	17:O1:256:TYR:CZ	1.83	1.13
11:I1:962:ILE:HG21	20:R1:166:LEU:CB	1.66	1.13
11:I1:1667:GLN:HB2	11:I2:1664:PHE:N	1.54	1.13
11:I2:847:THR:N	15:M3:594:LYS:NZ	1.97	1.13
11:I2:894:VAL:CG1	17:O3:238:ALA:N	1.99	1.13
11:I2:1028:CYS:C	20:R3:173:LEU:N	1.90	1.13
11:I2:1046:HIS:HB3	17:O3:280:GLU:O	0.95	1.13
11:I2:1051:LYS:HE2	17:O3:289:ASP:OD1	1.49	1.13
11:I2:1054:ILE:HA	17:O3:280:GLU:N	1.24	1.13
11:I4:1282:PHE:CE1	29:a3:23[A]:PRO:CB	2.26	1.13
21:S3:1032:ILE:HD11	21:S3:1054:LEU:HB2	1.26	1.13
23:U2:15:PHE:HB3	31:c4:477:GLU:O	0.99	1.13
23:U2:16:SER:N	31:c4:468:THR:OG1	1.82	1.13
23:U2:45:ALA:HB1	31:c4:470:ARG:CB	1.78	1.13
23:U2:75:TRP:O	31:c4:556:GLN:NE2	1.82	1.13
23:U2:430:PRO:CD	31:c4:458:LYS:HE3	1.59	1.13
24:V1:378:SER:HB2	31:c1:30:PHE:CE2	1.84	1.13
26:X2:195:GLN:CB	34:i:364:TYR:OH	1.95	1.13
26:X2:308:ASN:ND2	34:i:315:LEU:CG	2.11	1.13
26:X2:368:LEU:HA	34:i:441:LEU:HD22	1.29	1.13
1:A1:835:THR:N	6:D3:302:PRO:HB2	1.61	1.13
1:A1:1332:ARG:O	6:D1:637:LYS:CD	1.96	1.13
2:A2:826:ASN:ND2	6:D1:633:LYS:HB3	1.62	1.13
2:A2:865:ALA:CB	6:D1:604:ASP:O	1.96	1.13
2:A2:982:THR:HG23	6:D1:497:PHE:N	1.10	1.13
2:A2:1155:ASN:CG	3:A5:175:GLU:HG3	1.72	1.13
1:A3:1116:HIS:HB3	3:A6:596:ARG:CZ	1.74	1.13
1:A3:1186:TRP:O	3:A6:618:ALA:HB2	1.34	1.13
1:A3:1241:ARG:HH11	3:A6:593:ALA:HB1	1.05	1.13
1:A3:1250:PRO:HG2	3:A6:635:ARG:N	1.62	1.13
1:A3:1282:PHE:N	3:A6:625:LEU:HB3	1.62	1.13
1:A3:1390:LEU:HD12	3:A6:228:GLY:HA3	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:648:TYR:HD2	3:A6:504:PRO:N	1.17	1.13
2:A4:691:LYS:HD2	3:A6:316:ARG:CB	1.78	1.13
2:A4:720:LEU:HD22	3:A6:494:PRO:HB3	1.13	1.13
2:A4:854:VAL:CG1	3:A6:173:ASN:C	2.22	1.13
2:A4:855:THR:CG2	3:A6:168:ASP:C	2.21	1.13
2:A4:874:VAL:HB	6:D3:567:LEU:O	1.31	1.13
2:A4:918:CYS:SG	4:B6:342:ARG:HG2	1.86	1.13
2:A4:976:LEU:HG	6:D3:501:LEU:CB	1.79	1.13
3:A5:1026:PRO:HG3	11:I5:73:TYR:CD1	1.81	1.13
3:A6:483:HIS:O	6:D3:675:ARG:CB	1.95	1.13
3:A6:1413:SER:HA	28:Z4:994:ILE:CB	1.79	1.13
11:I1:947:LEU:HA	16:N1:407:ALA:HB3	1.14	1.13
11:I2:846:ILE:CG2	17:O3:247:TRP:CH2	2.28	1.13
11:I2:1017:VAL:C	16:N3:409:ALA:O	1.91	1.13
11:I2:1109:LEU:CD1	17:O3:290:TYR:CD2	2.27	1.13
11:I3:1270:LYS:NZ	26:X1:530:ARG:HG2	1.63	1.13
21:S1:597:ILE:CB	21:S2:1119:LEU:CB	2.25	1.13
21:S1:678:GLU:CA	21:S2:1127:GLN:CG	1.90	1.13
23:U1:139:VAL:CG2	31:c1:635:SER:OG	1.96	1.13
26:X2:307:LYS:CD	34:i:402:PRO:O	1.87	1.13
28:Z2:524:VAL:C	30:b2:208:ASN:OD1	1.91	1.13
28:Z4:411:LEU:CD2	30:b4:251:ILE:HG23	1.77	1.13
1:A1:1201:ARG:HD2	2:A2:734:LEU:HD23	1.30	1.12
2:A2:876:ARG:HD2	6:D1:558:LYS:CG	1.77	1.13
2:A2:1155:ASN:OD1	3:A5:175:GLU:CG	1.97	1.13
1:A3:1229:VAL:CA	3:A6:574:ARG:CB	2.12	1.13
1:A3:1230:TYR:CE1	3:A6:610:THR:N	2.17	1.13
1:A3:1231:VAL:HA	3:A6:613:ALA:HB1	1.26	1.13
1:A3:1182:ILE:HG22	3:A6:639:ASN:HB2	1.24	1.12
1:A3:1196:GLU:CD	3:A6:611:ILE:H	1.56	1.12
1:A3:1236:GLN:CG	3:A6:578:ILE:HA	1.78	1.12
1:A3:1236:GLN:CG	3:A6:581:LYS:CB	2.24	1.12
1:A3:1241:ARG:CZ	3:A6:593:ALA:O	1.97	1.12
1:A3:1249:PHE:HB2	3:A6:587:VAL:CG2	1.77	1.13
1:A3:1259:CYS:H	3:A6:623:SER:HB3	1.14	1.12
1:A3:1271:ILE:HB	3:A6:550:VAL:CA	1.76	1.13
2:A4:720:LEU:HA	3:A6:495:ASP:N	1.28	1.13
1:A3:1285:LEU:N	3:A6:581:LYS:NZ	1.69	1.12
1:A3:1393:THR:OG1	3:A6:229:SER:N	1.81	1.12
2:A4:610:THR:OG1	3:A6:506:SER:HB2	1.38	1.12
2:A4:861:GLN:O	6:D3:607:PRO:HG3	1.43	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:868:GLN:HG2	6:D3:608:ILE:HD12	1.16	1.12
2:A4:900:THR:HB	3:A6:137:HIS:CD2	1.82	1.12
2:A4:1055:ARG:HD3	6:D4:762:ARG:C	1.73	1.12
2:A4:1055:ARG:HD2	6:D4:762:ARG:HB3	1.13	1.12
3:A5:1369:ILE:HG13	28:Z2:828:LEU:O	1.46	1.12
8:F1:1202:TYR:O	17:O2:252:VAL:HA	0.95	1.13
8:F1:1205:TRP:CD2	17:O2:254:ARG:HD2	1.83	1.13
8:F1:1093:LEU:HB3	17:O2:244:GLU:OE1	1.33	1.12
9:G1:255:LEU:H	15:M2:602:MET:CB	1.59	1.12
11:I1:923:GLY:CA	15:M1:590:LYS:C	2.21	1.13
11:I1:1052:LEU:C	17:O1:283:ALA:O	1.92	1.12
11:I1:1055:GLU:CA	17:O1:281:ALA:H	1.62	1.12
11:I1:1066:LEU:CB	16:N1:430:ARG:CD	2.25	1.13
11:I2:952:LEU:HD23	15:M3:602:MET:CG	1.78	1.13
11:I2:1020:ALA:HB2	16:N3:407:ALA:C	1.71	1.13
11:I1:1058:GLY:C	17:O1:277:GLU:HB2	1.57	1.12
11:I1:1104:LEU:HD13	16:N1:433:GLU:CA	1.79	1.12
11:I2:1040:HIS:HB2	15:M3:619:ILE:CG2	1.79	1.12
11:I4:1273:GLU:CB	26:X3:524:SER:HB3	1.79	1.12
11:I4:1282:PHE:CG	29:a3:24[B]:GLY:HA3	1.83	1.13
11:I4:1282:PHE:CE2	29:a3:24[B]:GLY:N	2.17	1.12
18:P2:320:GLN:CG	18:P3:278:ASN:CB	2.05	1.13
11:I2:1046:HIS:CB	17:O3:280:GLU:C	2.22	1.12
22:T1:752:ALA:C	31:c5:58:ARG:NE	2.05	1.12
23:U2:26:GLN:HA	31:c4:491:VAL:H	1.05	1.12
23:U2:436:LEU:CD1	31:c4:540:HIS:CB	2.26	1.12
26:X2:283:ASP:OD2	34:i:15:GLN:HG3	0.96	1.12
26:X2:308:ASN:CG	34:i:315:LEU:HD21	1.73	1.12
28:Z2:526:ARG:HB3	30:b2:206:ASN:OD1	1.40	1.13
28:Z3:534:ASP:HA	30:b3:164:CYS:HB2	1.21	1.13
3:A6:1395:LYS:O	28:Z4:920:SER:CB	1.97	1.12
11:I1:900:ARG:CG	17:O1:232:LYS:NZ	2.11	1.12
11:I1:946:THR:HA	17:O1:257:ALA:CA	1.79	1.12
28:Z3:401:THR:HB	30:b3:253:SER:O	1.48	1.12
2:A2:989:MSE:HE1	6:D1:240:ASP:CA	1.71	1.12
2:A2:1157:TYR:CD1	3:A5:134:VAL:CG2	2.33	1.12
2:A2:1160:GLN:OE1	3:A5:165:PHE:HA	1.49	1.12
1:A3:1021:LEU:HD11	6:D3:819:ASN:HD22	1.05	1.12
1:A3:1021:LEU:HD12	6:D3:816:VAL:O	1.26	1.12
1:A3:1228:TYR:CB	3:A6:551:GLN:HB3	1.77	1.12
1:A3:1229:VAL:CG2	3:A6:574:ARG:HA	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1273:ALA:N	3:A6:554:GLN:HG3	0.88	1.12
2:A4:549:ALA:CA	3:A6:105:GLY:C	2.08	1.12
2:A4:611:ILE:CB	3:A6:508:LEU:CB	2.10	1.12
2:A4:674:ASP:OD1	3:A6:97:ASP:OD1	1.67	1.12
2:A4:691:LYS:HB3	3:A6:316:ARG:CD	1.77	1.12
2:A4:720:LEU:CA	3:A6:493:ALA:O	1.95	1.12
2:A4:881:GLU:O	3:A6:173:ASN:ND2	1.81	1.12
2:A4:1055:ARG:CD	6:D4:762:ARG:CB	2.15	1.12
3:A5:1391:ARG:CA	28:Z2:871:HIS:N	2.01	1.12
8:F2:1049:GLN:NE2	17:O4:237:PRO:CB	2.08	1.12
11:I1:840:LEU:CG	17:O1:244:GLU:CG	2.23	1.12
11:I1:874:LEU:HD23	17:O1:252:VAL:CA	1.78	1.12
11:I1:982:GLN:CG	15:M1:621:ARG:HH22	1.62	1.12
11:I1:1052:LEU:O	17:O1:286:ILE:CB	1.95	1.12
11:I2:833:PHE:CE1	17:O3:245:GLU:CG	2.23	1.12
11:I2:895:ARG:HD2	17:O3:234:LEU:CB	1.63	1.12
11:I2:950:LEU:HB3	16:N3:406:HIS:CD2	1.84	1.12
11:I2:1014:ASN:HB3	16:N3:413:VAL:O	1.38	1.12
11:I2:1020:ALA:HB3	16:N3:410:MET:N	1.64	1.12
11:I5:536:GLU:CA	25:W2:8:HIS:N	2.12	1.12
23:U2:20:LYS:HB2	31:c4:480:CYS:SG	1.89	1.12
23:U2:398:ILE:HG13	31:c4:535:VAL:N	1.64	1.12
23:U3:279:TYR:CD1	25:W4:189:SER:HB3	1.72	1.12
1:A1:868:GLN:CA	6:D3:280:GLN:CG	2.27	1.12
2:A2:870:HIS:CE1	6:D1:566:PHE:CD1	2.36	1.12
2:A2:986:THR:OG1	6:D1:497:PHE:CZ	2.03	1.12
2:A2:1138:GLU:HB2	3:A5:147:LEU:HD11	1.31	1.12
2:A2:1142:PHE:HB2	3:A5:130:ILE:HA	1.12	1.12
1:A3:1201:ARG:CB	2:A4:735:ALA:N	2.01	1.12
1:A3:1274:ASP:O	3:A6:556:PRO:HD2	1.44	1.12
2:A4:85:VAL:HG12	3:A6:394:LEU:O	1.48	1.12
2:A4:867:GLU:CD	6:D3:605:THR:OG1	1.93	1.12
2:A4:948:ALA:N	3:A6:235:TYR:CE1	2.05	1.12
3:A5:996:ASN:ND2	11:I5:58:ALA:HB3	1.57	1.12
3:A5:999:SER:OG	11:I5:63:PRO:CD	1.98	1.12
8:F1:1267:ARG:CD	17:O2:265:ASN:OD1	1.97	1.12
9:G1:251:TYR:O	17:O2:258:GLU:OE2	1.66	1.12
9:G1:266:ASP:N	16:N2:411:GLN:OE1	1.81	1.12
11:I1:899:LEU:CD2	17:O1:231:ASP:CG	2.20	1.12
11:I1:1037:THR:O	15:M1:620:VAL:HA	1.44	1.12
11:I2:841:PHE:HB3	15:M3:588:MET:HA	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:O	16:N3:397:GLU:CG	1.97	1.12
11:I2:889:THR:HB	17:O3:242:ARG:CD	1.79	1.12
11:I2:956:ILE:O	20:R3:166:LEU:CB	1.95	1.12
11:I2:980:ILE:CD1	20:R3:147:LEU:CB	2.27	1.12
11:I2:1017:VAL:HG21	17:O3:260:LEU:HD11	1.19	1.12
11:I2:1058:GLY:HA3	17:O3:277:GLU:N	1.61	1.12
11:I2:1104:LEU:HD23	16:N3:437:VAL:HG23	1.15	1.12
21:S2:176:MET:HE2	21:S2:212:LEU:HD11	1.20	1.12
23:U2:21:GLU:CB	31:c4:483:ASP:OD1	1.96	1.12
23:U2:394:ILE:CG1	31:c4:538:LEU:CB	2.21	1.12
26:X2:287:ASP:CB	34:i:480[A]:MET:HB3	1.78	1.12
26:X2:295:TYR:HB2	34:i:448:PHE:CD2	1.81	1.12
26:X2:301:SER:CA	34:i:334:TYR:C	2.15	1.12
28:Z1:524:VAL:CG2	30:b1:236:THR:O	1.81	1.12
28:Z1:535:ILE:HG13	30:b1:182:PRO:HB2	1.12	1.12
28:Z2:522:ASN:N	30:b2:241:PRO:CG	2.02	1.12
28:Z3:410:ASN:C	30:b3:251:ILE:CD1	2.19	1.12
28:Z3:411:LEU:CD2	30:b3:251:ILE:HG23	1.77	1.12
28:Z4:411:LEU:H	30:b4:251:ILE:CD1	1.49	1.12
28:Z4:524:VAL:CG1	30:b4:236:THR:CB	2.12	1.12
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD22	1.85	1.12
2:A2:968:SER:CA	6:D1:201:LEU:C	2.23	1.12
1:A3:1248:ILE:HD11	3:A6:587:VAL:CG2	1.55	1.12
1:A3:1389:SER:HB3	3:A6:224:PRO:CB	1.78	1.12
2:A4:75:LEU:HD23	3:A6:323:THR:OG1	1.33	1.12
2:A4:86:ASN:HB2	3:A6:393:HIS:CA	1.80	1.12
2:A4:550:VAL:CG2	3:A6:367:ASP:HB3	1.73	1.12
2:A4:689:LYS:HD3	3:A6:381:LEU:HD22	1.17	1.12
2:A4:701:ILE:CD1	3:A6:466:ALA:HB2	1.77	1.12
2:A4:717:VAL:HG22	3:A6:403:ARG:HH22	0.99	1.12
2:A4:720:LEU:CA	3:A6:512:GLU:HA	1.71	1.12
2:A4:757:LEU:CD1	3:A6:543:GLY:CA	2.27	1.12
2:A4:758:HIS:O	3:A6:535:PHE:HD1	1.30	1.12
2:A4:803:GLU:OE2	3:A6:394:LEU:HD21	1.48	1.12
2:A4:861:GLN:C	3:A6:132:ASP:CB	2.13	1.12
2:A4:876:ARG:CG	6:D3:563:GLU:O	1.98	1.12
2:A4:886:PHE:CA	3:A6:175:GLU:CA	2.28	1.12
2:A4:975:GLU:HB2	6:D3:501:LEU:HD12	1.31	1.12
8:F1:1262:HIS:HE1	17:O2:255:GLY:O	1.32	1.12
11:I2:958:THR:H	16:N3:399:HIS:CD2	1.66	1.12
11:I2:966:TRP:O	20:R3:153:GLN:HB3	1.50	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:720:ILE:HG22	31:c5:31:TYR:CZ	1.85	1.12
22:T1:752:ALA:HB1	31:c5:58:ARG:HD3	1.22	1.12
26:X2:369:GLU:HG3	34:i:428:LEU:CG	1.74	1.12
1:A1:1201:ARG:CD	2:A2:734:LEU:HB3	1.79	1.12
1:A1:1229:VAL:HG21	2:A2:725:GLU:CG	1.79	1.12
2:A2:1114:ILE:HD11	5:C2:731:LYS:CG	1.80	1.12
1:A3:1166:LEU:HA	3:A6:594:LEU:HB3	1.19	1.12
1:A3:1186:TRP:CH2	3:A6:583:LEU:HB3	1.85	1.12
1:A3:1201:ARG:CA	3:A6:546:ASN:ND2	2.12	1.12
2:A4:551:GLN:HG3	3:A6:107:SER:HA	1.31	1.12
2:A4:642:ARG:HG2	3:A6:501:VAL:HG11	1.21	1.12
2:A4:770:GLY:HA2	3:A6:469:PHE:CG	1.65	1.12
2:A4:778:PHE:N	6:D3:678:GLY:CA	2.02	1.12
2:A4:781:ARG:HD2	6:D3:633:LYS:NZ	1.64	1.12
2:A4:825:ARG:CA	3:A6:138:LEU:CD1	2.28	1.12
2:A4:862:LEU:N	3:A6:132:ASP:HB2	1.54	1.12
2:A4:865:ALA:HA	6:D3:567:LEU:HD22	1.25	1.12
2:A4:893:LEU:HD12	3:A6:175:GLU:CD	1.73	1.12
2:A4:972:GLY:O	6:D3:206:VAL:N	1.81	1.12
2:A4:975:GLU:N	6:D3:499:LEU:HB2	1.64	1.12
2:A4:975:GLU:HA	6:D3:499:LEU:HB2	1.18	1.12
3:A6:1367:THR:HB	28:Z4:877:ILE:N	1.63	1.12
9:G2:255:LEU:HA	17:O4:262:ASP:OD2	1.47	1.12
11:I1:894:VAL:HG21	17:O1:238:ALA:N	1.65	1.12
11:I1:895:ARG:NE	17:O1:233:THR:HG22	1.61	1.12
11:I1:913:ALA:H	15:M1:584:GLN:NE2	1.45	1.12
11:I1:951:LYS:HG3	16:N1:400:LEU:O	1.21	1.12
11:I1:1029:LEU:H	20:R1:171:ALA:C	1.16	1.12
11:I1:1035:GLN:O	16:N1:441:PHE:HZ	1.30	1.12
11:I1:1069:SER:C	16:N1:429:GLU:CG	2.03	1.12
11:I1:1739:GLU:CB	11:I2:1540:LYS:HE2	1.80	1.12
11:I2:885:GLU:HA	16:N3:397:GLU:CB	1.78	1.12
11:I2:890:TYR:HB3	17:O3:242:ARG:HB2	1.28	1.12
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CD	1.63	1.12
17:O4:107:THR:CG2	18:P4:321:ILE:CD1	2.27	1.12
23:U2:413:ILE:N	31:c4:541:ARG:HB2	0.95	1.12
26:X2:192:LEU:CD1	34:i:442:SER:OG	1.98	1.12
26:X2:302:THR:HG22	34:i:416:VAL:HG21	1.16	1.12
28:Z1:410:ASN:ND2	30:b1:252:ALA:CB	2.12	1.12
28:Z2:411:LEU:H	30:b2:251:ILE:CD1	1.50	1.12
28:Z2:524:VAL:HG13	30:b2:236:THR:HB	1.32	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:780:GLU:C	6:D1:673:ARG:O	1.93	1.11
2:A2:827:ILE:O	2:A2:863:GLN:CB	0.82	1.11
2:A2:1054:SER:O	6:D2:762:ARG:CB	1.87	1.11
2:A2:1126:VAL:HG23	3:A5:135:PHE:HB3	1.17	1.11
2:A2:1128:ASP:C	3:A5:140:ALA:CB	2.23	1.11
1:A3:1124:ARG:HH21	3:A6:599:ARG:N	1.48	1.11
1:A3:1196:GLU:N	3:A6:612:ALA:HB2	1.30	1.11
1:A3:1201:ARG:HG2	2:A4:728:LYS:C	1.76	1.11
1:A3:1201:ARG:HH22	3:A6:537:ALA:CB	1.60	1.11
1:A3:1306:PRO:HB2	3:A6:715:GLU:HB3	1.18	1.11
2:A4:86:ASN:CB	3:A6:394:LEU:N	2.02	1.11
2:A4:705:ILE:HB	3:A6:482:LYS:H	0.95	1.11
2:A4:737:PRO:HB3	3:A6:93:ASP:OD2	0.94	1.11
2:A4:827:ILE:HD12	2:A4:859:GLN:HB2	1.23	1.11
3:A5:160:ILE:O	5:C2:744:PHE:HD1	1.32	1.11
3:A5:187:THR:HA	5:C2:746:PRO:HD2	1.31	1.11
3:A5:1024:ASP:CB	11:I5:98:ALA:HB3	1.80	1.11
6:D7:530:ARG:CB	11:I3:181:GLN:HB2	1.65	1.11
11:I1:881:ILE:HD12	17:O1:249:ARG:O	1.50	1.11
11:I1:1029:LEU:CD1	20:R1:171:ALA:HA	1.57	1.11
11:I1:1605:LEU:HB2	11:I2:1669:ARG:NE	1.64	1.11
11:I2:951:LYS:HB3	17:O3:253:LEU:HD22	1.18	1.11
11:I2:968:PRO:CD	20:R3:153:GLN:HB2	1.79	1.11
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB2	1.68	1.11
11:I2:1052:LEU:HB3	17:O3:283:ALA:HB1	1.27	1.11
11:I3:1277:LEU:HB2	26:X1:522:MET:H	1.07	1.11
11:I4:819:MET:CE	26:X3:502:MET:HG2	1.79	1.11
11:I4:819:MET:HE2	26:X3:502:MET:CG	1.79	1.11
11:I4:819:MET:HE2	26:X3:502:MET:HG2	1.18	1.11
21:S1:684:THR:N	21:S2:1148:TYR:HA	1.61	1.11
23:U2:37:ASN:N	31:c4:559:ILE:N	1.99	1.11
23:U2:432:TYR:HB3	31:c4:539:ILE:HG23	1.23	1.11
28:Z1:401:THR:HB	30:b1:253:SER:O	1.48	1.11
28:Z2:535:ILE:HG13	30:b2:182:PRO:HB2	1.13	1.11
28:Z3:526:ARG:N	30:b3:208:ASN:OD1	1.83	1.11
28:Z4:524:VAL:N	30:b4:238:ASN:HB2	1.26	1.11
2:A2:1143:LEU:N	3:A5:129:ASN:CB	2.03	1.11
1:A3:1086:LYS:HB3	6:D3:798:MET:CA	1.81	1.11
1:A3:1271:ILE:CB	3:A6:550:VAL:CA	2.27	1.11
1:A3:1285:LEU:CB	3:A6:581:LYS:NZ	2.11	1.11
2:A4:789:LEU:CD2	3:A6:146:LYS:CA	2.27	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:792:VAL:CG2	3:A6:248:VAL:H	1.63	1.11
2:A4:874:VAL:CB	6:D3:567:LEU:O	1.93	1.11
2:A4:886:PHE:CE1	3:A6:176:LEU:CG	2.30	1.11
2:A4:893:LEU:HD22	3:A6:177:ILE:N	1.65	1.11
2:A4:898:LEU:CA	3:A6:176:LEU:O	1.97	1.11
2:A4:908:LEU:C	6:D3:552:TYR:CE1	2.27	1.11
2:A4:958:LEU:HD12	4:B6:343:LYS:C	1.33	1.11
2:A4:975:GLU:CA	6:D3:499:LEU:CB	2.27	1.11
3:A5:232:LEU:CD1	5:C2:739:MET:CG	2.27	1.11
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD11	1.12	1.11
3:A5:1029:ILE:CG2	11:I5:71:GLU:H	1.62	1.11
3:A5:1033:GLN:HE21	11:I5:70:GLU:CB	1.44	1.11
3:A6:565:THR:HG22	6:D3:633:LYS:CB	1.78	1.11
9:G1:258:LYS:CB	17:O2:253:LEU:CD2	2.28	1.11
11:I1:880:MET:HG2	17:O1:247:TRP:HA	1.25	1.11
11:I1:931:VAL:HG22	15:M1:604:ASN:CB	1.79	1.11
11:I1:977:ASN:O	20:R1:147:LEU:O	1.68	1.11
11:I1:1018:LYS:HE2	16:N1:413:VAL:HG13	1.12	1.11
11:I1:1049:LEU:HB2	20:R1:146:LEU:HD13	1.14	1.11
11:I2:873:ILE:HG21	17:O3:258:GLU:HG3	1.32	1.11
11:I2:948:ALA:N	17:O3:256:TYR:CD2	2.18	1.11
11:I2:984:GLU:OE2	15:M3:615:PRO:HA	0.97	1.11
11:I2:1029:LEU:CD1	16:N3:433:GLU:OE1	1.96	1.11
11:I2:1031:ALA:N	20:R3:172:ASP:O	1.82	1.11
11:I2:1046:HIS:H	17:O3:280:GLU:HA	1.12	1.11
11:I3:1278:ALA:N	26:X1:519:ILE:CG2	1.90	1.11
17:O3:158:GLU:CG	18:P3:316:LEU:H	1.56	1.11
23:U1:202:LEU:HB3	31:c1:632:HIS:C	1.74	1.11
23:U2:45:ALA:CB	31:c4:470:ARG:O	1.97	1.11
23:U2:403:SER:CB	31:c4:551:LEU:HD23	1.79	1.11
23:U2:403:SER:CB	31:c4:551:LEU:CD2	2.26	1.11
23:U3:276:VAL:C	25:W4:192:GLN:HE21	1.46	1.11
24:V1:339:LEU:CB	31:c1:627:ASP:CA	2.19	1.11
26:X2:287:ASP:CG	34:i:480[A]:MET:CB	2.18	1.11
26:X2:291:LEU:CB	34:i:415:SER:HB3	1.80	1.11
28:Z1:524:VAL:HG13	30:b1:236:THR:HB	1.32	1.11
28:Z1:526:ARG:N	30:b1:208:ASN:OD1	1.83	1.11
28:Z2:410:ASN:ND2	30:b2:252:ALA:CB	2.12	1.11
28:Z2:557:CYS:CB	30:b2:210:ARG:HH11	1.48	1.11
1:A1:868:GLN:C	6:D3:280:GLN:CB	2.23	1.11
2:A2:827:ILE:CA	2:A2:860:GLU:HA	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1136:LYS:CG	3:A5:138:LEU:HB2	1.79	1.11
1:A3:1054:SER:CA	6:D3:809:ALA:C	2.23	1.11
1:A3:1123:GLU:CG	3:A6:599:ARG:CD	2.29	1.11
1:A3:1389:SER:O	3:A6:229:SER:N	1.84	1.11
2:A4:93:ASP:HB3	3:A6:361:ASP:CG	1.76	1.11
2:A4:200:VAL:N	4:B4:352:ALA:O	1.84	1.11
2:A4:550:VAL:C	3:A6:455:LEU:HD21	1.54	1.11
2:A4:607:ARG:C	3:A6:506:SER:HA	1.73	1.11
2:A4:689:LYS:HD2	3:A6:336:ILE:HD11	1.32	1.11
2:A4:689:LYS:HA	3:A6:381:LEU:HD23	1.16	1.11
2:A4:793:SER:HB3	3:A6:146:LYS:HD2	1.30	1.11
2:A4:805:LEU:HD11	3:A6:469:PHE:CD2	1.84	1.11
2:A4:868:GLN:NE2	6:D3:608:ILE:HD12	1.63	1.11
2:A4:944:SER:CB	3:A6:200:VAL:HB	1.79	1.11
3:A5:1359:LEU:HB2	28:Z2:878:HIS:N	1.37	1.11
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CA	1.80	1.11
3:A6:1403:MSE:CG	26:X4:742:ALA:HA	1.80	1.11
3:A6:1403:MSE:SE	28:Z4:964:LEU:C	2.42	1.11
4:B5:344:ALA:CA	5:C2:737:LYS:CD	2.25	1.11
8:F1:1137:GLN:CB	17:O2:248:SER:OG	1.99	1.11
8:F2:1091:SER:N	17:O4:245:GLU:CA	2.13	1.11
11:I1:959:SER:HA	16:N1:395:GLU:CB	1.80	1.11
11:I1:965:ALA:HB2	20:R1:163:LEU:O	1.47	1.11
11:I2:833:PHE:HE1	17:O3:245:GLU:CD	1.36	1.11
11:I2:853:ILE:CG1	17:O3:254:ARG:CD	2.27	1.11
11:I2:881:ILE:HB	17:O3:249:ARG:C	1.76	1.11
11:I2:944:GLU:HA	17:O3:256:TYR:CD1	1.78	1.11
11:I2:951:LYS:HG2	16:N3:404:GLU:CG	1.76	1.11
11:I2:976:ARG:HH12	15:M3:622:VAL:HG22	1.10	1.11
11:I2:1038:ILE:HD11	15:M3:621:ARG:HG3	1.12	1.11
11:I2:1109:LEU:HA	17:O3:290:TYR:OH	1.50	1.11
17:O3:151:LEU:CD2	18:P3:325:ILE:CB	2.09	1.11
23:U1:274:GLN:HB3	25:W2:189:SER:CB	1.78	1.11
28:Z1:558:LEU:HA	30:b1:236:THR:N	1.56	1.11
28:Z2:555:LYS:C	30:b2:212:PHE:HA	1.65	1.11
28:Z3:402:GLY:HA2	30:b3:273:LYS:HB2	1.24	1.11
2:A2:1160:GLN:NE2	3:A5:166:LEU:N	1.97	1.11
1:A3:1021:LEU:CD1	6:D3:816:VAL:HA	1.81	1.11
1:A3:1162:ASN:N	3:A6:647:GLU:O	1.77	1.11
1:A3:1201:ARG:HG2	3:A6:548:LEU:HB2	1.26	1.11
1:A3:1259:CYS:CB	3:A6:624:ASP:OD1	1.99	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:89:LEU:HB3	3:A6:406:LEU:HG	1.25	1.11
2:A4:549:ALA:HB3	3:A6:365:MET:HE2	1.30	1.11
2:A4:611:ILE:HB	3:A6:508:LEU:HB2	1.29	1.11
2:A4:646:ILE:N	3:A6:501:VAL:C	2.07	1.11
2:A4:652:PRO:CA	3:A6:542:LEU:CD1	2.29	1.11
2:A4:720:LEU:CG	3:A6:494:PRO:CA	2.03	1.11
2:A4:946:LYS:HB2	4:B6:350:GLU:CA	1.74	1.11
2:A4:968:SER:OG	6:D3:201:LEU:C	1.84	1.11
2:A4:975:GLU:N	6:D3:499:LEU:HD12	1.63	1.11
3:A5:164:LEU:HB2	5:C2:742:ASP:CG	1.67	1.11
3:A5:993:ASN:O	11:I5:57:GLU:HG2	1.49	1.11
3:A6:484:PRO:C	6:D3:676:ALA:H	1.44	1.11
3:A6:1367:THR:HG22	28:Z4:872:TYR:O	1.50	1.11
8:F1:1203:TRP:HZ2	17:O2:248:SER:HB2	0.97	1.11
8:F2:1091:SER:N	17:O4:245:GLU:HA	1.64	1.11
11:I1:931:VAL:CG1	15:M1:604:ASN:OD1	1.99	1.11
11:I1:999:SER:O	16:N1:413:VAL:HG12	1.45	1.11
11:I1:1024:PHE:CB	16:N1:406:HIS:CB	2.21	1.11
11:I1:1672:VAL:HG22	11:I2:1611:PHE:HB3	1.28	1.11
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CE	1.79	1.11
11:I2:890:TYR:CB	17:O3:242:ARG:HB2	1.80	1.11
11:I2:894:VAL:N	17:O3:239:GLN:HG2	1.64	1.11
11:I2:922:ASP:CB	15:M3:589:GLY:O	1.98	1.11
11:I2:967:SER:HB2	15:M3:625:GLY:HA3	1.12	1.11
11:I3:1271:GLU:CB	26:X1:525:ILE:CG2	2.21	1.11
11:I3:1277:LEU:HG	26:X1:522:MET:SD	1.90	1.11
23:U1:202:LEU:HD11	31:c1:571:GLN:CG	1.79	1.11
23:U2:35:PRO:O	31:c4:555:VAL:O	1.69	1.11
23:U2:413:ILE:H	31:c4:541:ARG:CA	1.63	1.11
23:U2:435:PHE:CD1	31:c4:461:PHE:CD1	2.39	1.11
26:X2:300:SER:OG	34:i:367:GLU:CG	1.98	1.11
26:X2:365:ILE:HB	34:i:421:ILE:O	1.43	1.11
28:Z1:534:ASP:OD2	30:b1:183:LEU:HB2	0.94	1.11
28:Z2:522:ASN:N	30:b2:241:PRO:HG3	1.53	1.11
28:Z4:401:THR:C	30:b4:254:SER:CB	2.08	1.11
28:Z4:555:LYS:HE2	30:b4:216:LEU:HD22	1.24	1.11
1:A1:1201:ARG:HD2	2:A2:734:LEU:CD2	1.81	1.11
2:A2:227:SER:HB3	6:D1:711:PHE:HB3	1.27	1.11
2:A2:864:ARG:HG2	6:D1:609:ILE:HB	1.25	1.11
2:A2:970:PHE:C	6:D1:192:TYR:CE2	2.28	1.11
2:A2:1151:THR:CG2	5:C2:734:VAL:N	2.05	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1099:GLN:HG2	11:I2:1414:CYS:C	1.74	1.11
2:A4:547:GLU:H	3:A6:366:ALA:HB3	1.15	1.11
2:A4:635:ARG:CZ	3:A6:600:LYS:C	2.24	1.11
2:A4:678:LEU:O	3:A6:431:PHE:CZ	2.04	1.11
2:A4:721:ARG:O	3:A6:572:ARG:NH2	1.81	1.11
2:A4:771:ILE:N	3:A6:477:PHE:HB2	1.56	1.11
2:A4:772:SER:O	3:A6:489:LEU:CD1	1.96	1.11
2:A4:782:VAL:CG2	6:D3:677:GLN:HA	1.76	1.11
2:A4:805:LEU:HD13	3:A6:469:PHE:CD2	1.84	1.11
2:A4:867:GLU:OE1	6:D3:605:THR:OG1	1.67	1.11
2:A4:900:THR:O	3:A6:137:HIS:NE2	1.84	1.11
2:A4:949:PHE:C	4:B6:347:LEU:HD23	1.60	1.11
2:A4:984:ALA:HA	6:D3:498:GLU:OE2	1.49	1.11
2:A4:1151:THR:CA	5:C4:733:LEU:HA	1.67	1.11
6:D6:804:SER:CB	22:T3:764:PHE:HE2	1.52	1.11
6:D7:534:LEU:CD1	11:I3:181:GLN:O	1.99	1.11
8:F2:1088:GLU:OE1	17:O4:247:TRP:O	1.68	1.11
9:G2:255:LEU:CD1	17:O4:262:ASP:OD1	1.98	1.11
11:I1:881:ILE:N	17:O1:249:ARG:HB3	1.39	1.11
11:I1:888:GLU:HB2	17:O1:242:ARG:HH12	1.06	1.11
11:I1:912:VAL:N	15:M1:584:GLN:NE2	1.98	1.11
11:I1:982:GLN:CB	15:M1:621:ARG:HH22	1.48	1.11
11:I1:1013:GLU:HA	16:N1:411:GLN:OE1	1.51	1.11
11:I1:1037:THR:CG2	20:R1:169:GLY:HA2	1.71	1.11
11:I1:1066:LEU:H	16:N1:430:ARG:CD	1.63	1.11
11:I1:1103:LEU:HD11	20:R1:175:GLN:CG	1.74	1.11
11:I1:1107:SER:OG	16:N1:436:ALA:O	1.67	1.11
11:I1:1610:VAL:CG2	11:I2:1673:VAL:HG11	1.81	1.11
11:I2:881:ILE:HG22	17:O3:249:ARG:HG2	1.18	1.11
11:I2:911:PRO:HB3	15:M3:584:GLN:NE2	1.52	1.11
11:I2:995:SER:HA	17:O3:267:ALA:HB3	1.12	1.11
22:T1:736:LEU:CA	31:c5:19:THR:CG2	2.15	1.11
23:U2:395:CYS:C	31:c4:555:VAL:H	1.50	1.11
23:U2:396:LEU:HD12	31:c4:548:VAL:O	1.27	1.11
23:U2:415:THR:HB	31:c4:541:ARG:CZ	1.80	1.11
26:X2:197:VAL:HG22	34:i:442:SER:N	1.64	1.11
26:X2:361:LEU:CD1	34:i:445:GLN:NE2	2.05	1.11
28:Z1:557:CYS:HA	30:b1:210:ARG:CA	1.80	1.11
28:Z4:410:ASN:ND2	30:b4:252:ALA:CB	2.12	1.11
1:A1:874:VAL:HG11	6:D3:272:VAL:O	1.49	1.10
1:A1:1220:PRO:O	2:A2:645:PHE:C	1.94	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1331:GLU:OE1	2:A2:857:LYS:HE2	0.93	1.10
2:A2:825:ARG:CD	6:D1:633:LYS:HZ2	1.62	1.10
2:A2:980:ARG:HG2	6:D1:473:GLU:HG3	1.33	1.10
2:A2:1143:LEU:HB2	3:A5:130:ILE:O	1.43	1.10
2:A2:1157:TYR:OH	3:A5:167:TRP:NE1	1.84	1.10
1:A3:1056:PHE:CE2	6:D3:807:THR:C	2.29	1.10
1:A3:1201:ARG:CB	3:A6:546:ASN:HD21	1.56	1.10
1:A3:1204:TRP:HB3	2:A4:731:ILE:CG2	1.80	1.10
1:A3:1223:GLU:HB3	2:A4:676:LEU:HD11	1.19	1.10
2:A4:86:ASN:CA	3:A6:394:LEU:N	2.12	1.10
2:A4:173:ASN:HD22	6:D3:762:ARG:HB3	1.12	1.10
2:A4:672:ARG:HA	3:A6:508:LEU:HD11	1.29	1.10
2:A4:712:THR:CG2	3:A6:461:ALA:CB	2.29	1.10
2:A4:713:ILE:CB	3:A6:462:LEU:HD11	1.77	1.10
2:A4:774:VAL:HA	3:A6:467:LEU:HD12	1.23	1.10
2:A4:869:ALA:HB2	6:D3:583:ILE:HD13	1.24	1.10
2:A4:900:THR:C	3:A6:137:HIS:HE2	1.57	1.10
3:A5:220:VAL:CG2	5:C2:738:ASP:O	1.99	1.10
3:A6:483:HIS:HB2	6:D3:675:ARG:CD	1.81	1.10
9:G1:258:LYS:H	17:O2:253:LEU:CA	1.63	1.10
11:I1:837:MET:HE2	17:O1:242:ARG:HB2	1.15	1.10
11:I1:1021:ILE:HG12	16:N1:410:MET:HE3	1.24	1.10
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD22	1.22	1.10
11:I2:880:MET:HE1	15:M3:598:GLU:OE1	1.40	1.10
11:I2:939:ASN:CB	17:O3:265:ASN:CG	1.95	1.10
11:I2:945:LEU:CD1	17:O3:255:GLY:C	2.22	1.10
11:I2:1110:SER:HB2	16:N3:438:LEU:H	0.98	1.10
28:Z1:530:LYS:HB3	30:b1:204:GLU:OE1	1.51	1.10
28:Z2:557:CYS:HA	30:b2:210:ARG:CA	1.80	1.10
28:Z3:406:ARG:HG3	30:b3:252:ALA:CB	1.80	1.10
28:Z3:531:LYS:CD	30:b3:182:PRO:O	1.99	1.10
28:Z4:524:VAL:N	30:b4:238:ASN:CB	2.03	1.10
28:Z4:531:LYS:CD	30:b4:182:PRO:O	1.99	1.10
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD13	1.85	1.10
2:A2:200:VAL:N	4:B2:352:ALA:O	1.84	1.10
2:A2:223:THR:OG1	6:D1:709:ARG:NH2	1.84	1.10
2:A2:874:VAL:CG2	6:D1:611:LYS:HG2	1.79	1.10
2:A2:980:ARG:HG3	6:D1:526:LEU:N	1.66	1.10
2:A2:986:THR:HG22	6:D1:504:LYS:HD3	1.17	1.10
1:A3:1054:SER:OG	6:D3:810:ARG:HA	1.51	1.10
1:A3:1189:LEU:CD1	3:A6:579:PHE:CE1	1.79	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:677:ALA:N	3:A6:98:LEU:CA	2.04	1.10
2:A4:761:GLN:NE2	3:A6:545:GLY:C	2.09	1.10
2:A4:824:ASN:HD22	3:A6:158:ALA:HB3	1.01	1.10
2:A4:925:LYS:NZ	3:A6:233:THR:HA	1.64	1.10
2:A4:972:GLY:C	6:D3:205:LEU:N	1.95	1.10
2:A4:976:LEU:HD22	6:D3:472:PHE:CD2	1.84	1.10
3:A5:1028:VAL:C	11:I5:67:LYS:HB3	1.68	1.10
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB2	1.15	1.10
3:A5:1365:VAL:CG2	28:Z2:838:GLN:O	1.98	1.10
11:I1:934:LEU:CA	15:M1:602:MET:HE3	1.82	1.10
11:I1:1104:LEU:CB	16:N1:436:ALA:CB	2.29	1.10
11:I2:950:LEU:CD1	16:N3:410:MET:HB2	1.72	1.10
11:I3:1267:LEU:CG	26:X1:529:TRP:CE3	2.34	1.10
11:I3:1267:LEU:HG	26:X1:529:TRP:CD2	1.86	1.10
23:U2:404:VAL:CG1	31:c4:543:ALA:CB	2.15	1.10
23:U2:405:GLU:CB	31:c4:544:VAL:CG2	2.29	1.10
23:U2:410:SER:CA	31:c4:540:HIS:O	1.98	1.10
23:U2:432:TYR:HB3	31:c4:539:ILE:CG2	1.81	1.10
26:X2:191:ILE:HB	34:i:443:THR:CG2	1.79	1.10
26:X2:291:LEU:HD13	34:i:404:ARG:HD3	1.17	1.10
28:Z1:524:VAL:CG1	30:b1:236:THR:CB	2.12	1.10
28:Z2:406:ARG:HG3	30:b2:252:ALA:CB	1.81	1.10
28:Z2:534:ASP:OD2	30:b2:183:LEU:HB2	0.95	1.10
28:Z3:522:ASN:N	30:b3:241:PRO:HG3	1.53	1.10
28:Z3:534:ASP:OD2	30:b3:183:LEU:HB2	0.94	1.10
28:Z4:534:ASP:OD2	30:b4:183:LEU:HB2	0.94	1.10
2:A2:1151:THR:CA	5:C2:733:LEU:HA	1.67	1.10
2:A2:1163:TYR:CE2	3:A5:136:GLU:OE2	2.04	1.10
1:A3:1186:TRP:CZ2	3:A6:637:THR:HG23	1.85	1.10
1:A3:1188:ASN:O	3:A6:645:PHE:CB	1.97	1.10
1:A3:1189:LEU:CD2	3:A6:644:ALA:HB3	1.82	1.10
1:A3:1198:GLU:HA	3:A6:682:ARG:NE	0.98	1.10
1:A3:1236:GLN:HA	3:A6:581:LYS:CB	1.61	1.10
1:A3:1266:GLY:N	3:A6:716:ASN:HD22	1.47	1.10
2:A4:93:ASP:CB	3:A6:361:ASP:CB	1.93	1.10
2:A4:735:ALA:HB2	3:A6:682:ARG:HE	1.10	1.10
2:A4:778:PHE:CE1	3:A6:466:ALA:CB	2.33	1.10
2:A4:804:GLN:OE1	3:A6:317:GLY:HA3	1.51	1.10
3:A5:1029:ILE:N	11:I5:67:LYS:C	1.77	1.10
3:A5:1312:ARG:NH2	28:Z2:832:PHE:CB	2.14	1.10
3:A5:1365:VAL:HA	28:Z2:841:ALA:CA	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1411:ARG:NH2	26:X2:743:PHE:O	1.83	1.10
8:F1:1262:HIS:CE1	17:O2:259:ASP:CA	2.32	1.10
9:G1:270:ARG:HB2	16:N2:413:VAL:O	0.94	1.10
11:I1:846:ILE:CB	15:M1:594:LYS:HD2	1.80	1.10
11:I1:1038:ILE:CD1	15:M1:620:VAL:CG1	2.03	1.10
11:I2:880:MET:HA	17:O3:247:TRP:HA	1.29	1.10
11:I2:931:VAL:HB	15:M3:600:ASN:O	1.50	1.10
11:I2:950:LEU:HD13	16:N3:410:MET:HB2	1.24	1.10
11:I2:984:GLU:OE2	15:M3:618:GLN:HB2	1.44	1.10
11:I2:1046:HIS:HB3	17:O3:280:GLU:C	1.76	1.10
17:O3:102:LYS:HG2	18:P3:322:LYS:HE3	1.25	1.10
21:S1:686:ALA:HA	21:S2:1152:VAL:CB	1.81	1.10
23:U1:26:GLN:CB	31:c2:562:LEU:CB	1.79	1.10
23:U1:394:ILE:HG22	31:c2:475:ALA:HB1	1.15	1.10
26:X2:302:THR:N	34:i:333:LEU:CB	2.13	1.10
26:X2:329:ARG:NE	34:i:475:ILE:HG13	1.61	1.10
26:X2:365:ILE:CG1	34:i:421:ILE:O	1.98	1.10
28:Z2:521:SER:C	30:b2:238:ASN:HB3	1.77	1.10
28:Z3:410:ASN:ND2	30:b3:252:ALA:CB	2.12	1.10
28:Z3:555:LYS:CE	30:b3:216:LEU:CD2	2.25	1.10
28:Z4:528:ILE:HG12	30:b4:210:ARG:NH1	1.51	1.10
1:A1:874:VAL:HG21	6:D3:272:VAL:CG1	1.74	1.10
1:A1:1204:TRP:CD1	2:A2:645:PHE:CE1	2.40	1.10
2:A2:968:SER:HA	6:D1:202:GLN:N	1.65	1.10
2:A2:1151:THR:HG23	5:C2:734:VAL:H	1.04	1.10
1:A3:1188:ASN:N	3:A6:723:PHE:CZ	2.18	1.10
1:A3:1230:TYR:CD2	3:A6:575:LEU:HD11	1.77	1.10
1:A3:1230:TYR:C	3:A6:575:LEU:C	2.18	1.10
2:A4:536:ALA:N	3:A6:368:SER:C	1.77	1.10
2:A4:684:VAL:CB	3:A6:395:MET:SD	2.39	1.10
2:A4:771:ILE:CD1	3:A6:476:PHE:CE2	2.34	1.10
2:A4:789:LEU:HD23	3:A6:146:LYS:CB	1.69	1.10
2:A4:827:ILE:HA	6:D3:606:LYS:HB3	1.20	1.10
2:A4:892:SER:HA	3:A6:232:LEU:H	1.16	1.10
2:A4:911:TYR:CE2	6:D3:555:ARG:NH2	2.20	1.10
2:A4:978:ASP:O	6:D3:475:ALA:HB3	1.52	1.10
2:A4:1114:ILE:HD11	5:C4:731:LYS:CG	1.80	1.10
3:A5:175:GLU:CD	5:C2:733:LEU:CD1	2.25	1.10
3:A5:1026:PRO:O	11:I5:67:LYS:HA	1.48	1.10
3:A6:1385:GLU:OE1	28:Z4:903:ASN:O	1.70	1.10
3:A6:1398:LYS:NZ	28:Z4:921:THR:CB	2.15	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:255:LEU:HD12	17:O2:257:ALA:CB	1.80	1.10
11:I1:797:LEU:CD2	17:O1:245:GLU:HG3	1.79	1.10
11:I1:1036:PRO:O	15:M1:623:LEU:C	1.94	1.10
11:I1:1038:ILE:O	15:M1:620:VAL:CG2	2.00	1.10
11:I1:1047:CYS:O	20:R1:143:PHE:CE1	2.05	1.10
11:I1:1665:LEU:HD23	11:I2:1667:GLN:O	1.52	1.10
11:I4:1276:GLN:OE1	26:X3:520:GLU:HG3	1.45	1.10
21:S4:176:MET:HE2	21:S4:212:LEU:HD11	1.20	1.10
23:U1:19:LEU:HD12	31:c2:470:ARG:HD3	1.13	1.10
23:U1:38:ILE:CG2	31:c2:473:THR:CG2	2.26	1.10
23:U1:400:ASN:OD1	31:c2:553:LEU:HD22	1.33	1.10
23:U1:438:GLU:CG	31:c2:541:ARG:HH11	1.63	1.10
26:X2:300:SER:OG	34:i:367:GLU:HG2	1.51	1.10
26:X2:300:SER:HG	34:i:367:GLU:N	1.46	1.10
1:A1:870:HIS:O	6:D3:279:HIS:CB	1.99	1.10
2:A2:870:HIS:CD2	6:D1:566:PHE:CE1	2.39	1.10
2:A2:870:HIS:CE1	6:D1:566:PHE:CB	2.34	1.10
1:A3:1260:ALA:HB3	3:A6:719:ARG:NH2	1.57	1.10
1:A3:1325:MET:CE	3:A6:126:ARG:NE	2.14	1.10
2:A4:646:ILE:H	3:A6:501:VAL:C	1.57	1.10
2:A4:682:ARG:HB3	3:A6:432:VAL:O	1.50	1.10
2:A4:701:ILE:HB	3:A6:466:ALA:HB2	1.30	1.10
2:A4:753:GLU:CG	3:A6:93:ASP:O	1.99	1.10
2:A4:909:LYS:CG	6:D3:555:ARG:NH1	2.00	1.10
3:A5:146:LYS:HB3	5:C2:745:SER:O	1.51	1.10
3:A5:996:ASN:C	11:I5:61:LYS:H	1.43	1.10
11:I1:846:ILE:CG2	17:O1:247:TRP:HZ2	1.56	1.10
11:I1:937:TYR:O	17:O1:257:ALA:O	1.70	1.10
11:I1:957:SER:CB	20:R1:168:LEU:HG	1.81	1.10
11:I1:1042:LEU:O	16:N1:430:ARG:HD2	1.51	1.10
11:I1:1058:GLY:C	17:O1:277:GLU:CB	1.95	1.10
11:I2:880:MET:HE2	15:M3:598:GLU:OE1	1.50	1.10
11:I2:956:ILE:O	20:R3:166:LEU:HD13	1.26	1.10
11:I2:990:GLU:CB	17:O3:272:SER:HA	1.80	1.10
11:I2:1048:GLU:C	17:O3:287:LEU:HB3	1.77	1.10
11:I2:1100:ILE:HG23	16:N3:433:GLU:OE1	0.94	1.10
11:I2:1105:TRP:HB2	16:N3:439:ARG:NH2	1.39	1.10
11:I2:1186:PRO:HG3	17:O4:225:GLN:NE2	0.77	1.10
11:I3:1271:GLU:C	26:X1:525:ILE:CG2	2.09	1.10
11:I4:1273:GLU:HB3	26:X3:524:SER:CB	1.82	1.10
11:I4:1279:THR:HG21	26:X3:520:GLU:HB3	1.10	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P1:279:GLY:HA2	18:P4:326:GLN:NE2	1.52	1.10
21:S1:671:ALA:N	21:S2:1145:LYS:C	2.09	1.10
26:X1:401:LYS:CD	37:k2:450:HIS:ND1	2.15	1.10
26:X2:287:ASP:CG	34:i:492:TRP:O	1.94	1.10
26:X2:294:GLN:C	34:i:415:SER:O	1.94	1.10
26:X2:329:ARG:HE	34:i:475:ILE:HD11	1.10	1.10
28:Z1:521:SER:C	30:b1:238:ASN:HB3	1.77	1.10
28:Z1:528:ILE:HG12	30:b1:210:ARG:NH1	1.51	1.10
28:Z1:555:LYS:C	30:b1:212:PHE:CA	2.24	1.10
28:Z4:402:GLY:HA2	30:b4:273:LYS:HB2	1.24	1.10
1:A1:1201:ARG:N	2:A2:729:SER:N	1.78	1.09
2:A2:225:THR:HG21	6:D1:706:HIS:HB3	1.22	1.09
2:A2:780:GLU:N	6:D1:679:ILE:H	1.49	1.09
2:A2:975:GLU:N	6:D1:499:LEU:CG	2.11	1.09
1:A3:1197:ALA:HB1	2:A4:728:LYS:CG	1.82	1.09
1:A3:1203:TYR:HA	3:A6:91:LEU:HD12	1.33	1.09
1:A3:1255:LEU:HB2	3:A6:634:ASP:OD2	1.52	1.09
2:A4:92:ASP:OD1	3:A6:104:PRO:HA	1.51	1.09
2:A4:549:ALA:HB1	3:A6:365:MET:HE1	1.16	1.09
2:A4:717:VAL:CG2	3:A6:403:ARG:HH22	1.64	1.09
2:A4:718:GLU:HG2	3:A6:491:VAL:C	1.77	1.09
2:A4:754:HIS:CE1	3:A6:685:ARG:NH1	2.18	1.09
2:A4:788:ARG:HB2	3:A6:145:THR:OG1	1.51	1.09
2:A4:852:ASP:N	3:A6:170:THR:N	1.81	1.09
2:A4:859:GLN:HG3	3:A6:176:LEU:HD21	1.24	1.09
2:A4:870:HIS:CG	6:D3:566:PHE:CD1	2.39	1.09
2:A4:875:LEU:O	6:D3:567:LEU:HG	1.37	1.09
3:A5:1050:TYR:OH	11:I5:70:GLU:HB2	1.52	1.09
8:F1:1137:GLN:CG	17:O2:248:SER:CA	2.28	1.09
11:I1:896:PRO:CD	17:O1:233:THR:HA	1.81	1.09
11:I1:923:GLY:H	15:M1:592:LEU:HB3	1.05	1.09
11:I1:963:LEU:HD21	20:R1:176:ARG:HH22	1.03	1.09
11:I1:1056:PRO:CB	17:O1:278:GLU:HG2	1.81	1.09
11:I1:1114:VAL:CG2	16:N1:432:TYR:O	1.99	1.09
11:I1:1611:PHE:C	11:I2:1672:VAL:C	2.20	1.09
11:I2:899:LEU:HD22	17:O3:231:ASP:CG	1.77	1.09
11:I2:917:TYR:HD2	15:M3:587:GLU:O	1.04	1.09
11:I2:942:HIS:HB3	17:O3:259:ASP:CB	1.82	1.09
11:I2:1015:TYR:CB	16:N3:412:ASN:OD1	2.00	1.09
11:I3:1270:LYS:CE	26:X1:530:ARG:CG	2.19	1.09
11:I4:819:MET:HE1	27:Y3:178:PHE:CZ	1.87	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:110:LEU:HB3	18:P4:321:ILE:CB	1.82	1.09
17:O4:112:GLY:O	18:P4:325:ILE:HG21	1.50	1.09
23:U2:395:CYS:SG	31:c4:555:VAL:CG1	2.40	1.09
23:U2:432:TYR:CE1	31:c4:464:LEU:HA	1.86	1.09
23:U2:435:PHE:HE2	31:c4:535:VAL:HG13	0.95	1.09
26:X2:317:PHE:CD2	34:i:474:ASP:HB3	1.73	1.09
28:Z1:406:ARG:HG3	30:b1:252:ALA:CB	1.81	1.09
28:Z2:402:GLY:HA2	30:b2:273:LYS:HB2	1.24	1.09
28:Z2:531:LYS:CD	30:b2:182:PRO:O	1.99	1.09
28:Z4:406:ARG:HG3	30:b4:252:ALA:CB	1.81	1.09
28:Z4:555:LYS:C	30:b4:212:PHE:CA	2.24	1.09
1:A1:870:HIS:CD2	6:D3:280:GLN:HA	1.86	1.09
2:A2:876:ARG:HD3	6:D1:558:LYS:HA	1.23	1.09
2:A2:1151:THR:O	3:A5:175:GLU:CG	2.01	1.09
2:A2:1151:THR:CG2	5:C2:734:VAL:H	1.43	1.09
2:A2:1151:THR:HG21	5:C2:734:VAL:HB	1.10	1.09
1:A3:1231:VAL:HG22	3:A6:613:ALA:HA	1.11	1.09
1:A3:1249:PHE:CG	3:A6:633:MET:SD	2.45	1.09
1:A3:1273:ALA:N	3:A6:554:GLN:CG	1.73	1.09
1:A3:1306:PRO:HB3	3:A6:715:GLU:CB	1.82	1.09
2:A4:788:ARG:HA	3:A6:144:PHE:HA	1.11	1.09
2:A4:789:LEU:HD23	3:A6:146:LYS:CA	1.83	1.09
2:A4:909:LYS:HG3	6:D3:552:TYR:CD2	1.74	1.09
2:A4:949:PHE:HB3	4:B6:348:PRO:HD3	1.11	1.09
3:A5:1367:THR:O	28:Z2:825:TYR:C	1.95	1.09
3:A6:446:LEU:HD12	6:D3:721:PRO:HA	1.22	1.09
4:B5:344:ALA:CB	5:C2:737:LYS:CD	2.20	1.09
6:D6:797:GLY:O	22:T3:768:ASN:N	1.65	1.09
8:F1:1261:TYR:O	17:O2:263:GLN:N	1.85	1.09
11:I1:841:PHE:HB3	15:M1:588:MET:HB2	1.26	1.09
11:I1:931:VAL:HG22	15:M1:604:ASN:N	1.67	1.09
11:I1:1029:LEU:HD12	20:R1:171:ALA:HA	1.23	1.09
11:I1:1056:PRO:O	17:O1:277:GLU:O	1.67	1.09
11:I1:1662:ARG:CD	11:I2:1603:ARG:NH1	2.01	1.09
11:I1:1667:GLN:O	11:I2:1665:LEU:HD23	1.50	1.09
11:I1:1739:GLU:HB3	11:I2:1540:LYS:HE2	1.23	1.09
11:I2:925:LEU:CD1	20:R3:156:GLY:H	1.65	1.09
11:I2:952:LEU:HD13	17:O3:250:LEU:HD12	1.12	1.09
11:I2:952:LEU:HD11	17:O3:250:LEU:HD11	1.20	1.09
11:I2:976:ARG:CZ	20:R3:143:PHE:O	1.99	1.09
17:O3:162:LYS:HG3	18:P3:315:GLU:OE1	1.50	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P1:276:SER:HB3	18:P4:322:LYS:HE2	1.27	1.09
22:T2:837:LYS:HA	31:c4:333:LEU:HD23	1.32	1.09
23:U1:399:ILE:HG12	31:c2:556:GLN:NE2	1.67	1.09
23:U1:431:ILE:HD11	31:c2:469:SER:HB3	1.33	1.09
23:U2:398:ILE:CB	31:c4:531:TRP:O	1.99	1.09
23:U2:435:PHE:HZ	31:c4:535:VAL:CG2	1.65	1.09
28:Z2:530:LYS:HB3	30:b2:204:GLU:OE1	1.51	1.09
28:Z2:535:ILE:HG12	30:b2:182:PRO:CB	1.74	1.09
2:A2:779:ASP:H	6:D1:678:GLY:HA2	1.15	1.09
2:A2:1143:LEU:N	3:A5:129:ASN:HB3	1.66	1.09
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG13	1.17	1.09
1:A3:1052:THR:HG22	6:D3:815:GLU:N	1.62	1.09
1:A3:1118:GLN:HB2	3:A6:592:ASP:OD1	1.53	1.09
1:A3:1158:ALA:O	3:A6:647:GLU:CB	2.00	1.09
1:A3:1170:ILE:CA	3:A6:591:ASP:N	2.14	1.09
1:A3:1224:PRO:CB	3:A6:548:LEU:HD12	1.81	1.09
1:A3:1237:LEU:HD23	3:A6:119:TRP:HE1	0.97	1.09
2:A4:89:LEU:HD12	3:A6:406:LEU:HD12	1.20	1.09
2:A4:647:GLU:HB2	3:A6:503:GLN:HG2	1.14	1.09
2:A4:682:ARG:CB	3:A6:432:VAL:O	2.01	1.09
2:A4:762:LYS:HB2	3:A6:472:SER:HB2	1.11	1.09
2:A4:792:VAL:HG21	3:A6:248:VAL:HB	1.26	1.09
2:A4:806:PHE:HB3	3:A6:382:SER:OG	1.41	1.09
2:A4:952:ARG:HG3	4:B6:347:LEU:HD21	1.16	1.09
2:A4:975:GLU:CB	6:D3:499:LEU:HB2	1.81	1.09
2:A4:986:THR:CG2	6:D3:504:LYS:HG3	1.62	1.09
3:A5:234:LEU:HA	5:C2:738:ASP:HA	1.31	1.09
3:A5:1098:ARG:CZ	11:I5:29:GLN:CG	2.19	1.09
3:A5:1391:ARG:CB	28:Z2:871:HIS:H	1.63	1.09
3:A5:1395:LYS:HB3	28:Z2:873:LEU:CB	1.65	1.09
3:A5:1398:LYS:CB	28:Z2:873:LEU:O	1.99	1.09
6:D7:531:LEU:H	11:I3:181:GLN:HG2	1.15	1.09
8:F1:1266:MET:HG3	17:O2:262:ASP:OD2	0.94	1.09
9:G1:258:LYS:CB	17:O2:253:LEU:HD23	1.75	1.09
11:I2:896:PRO:CA	17:O3:232:LYS:O	1.99	1.09
11:I2:951:LYS:HE3	16:N3:400:LEU:O	0.92	1.09
11:I2:981:VAL:N	20:R3:147:LEU:HD21	1.66	1.09
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB3	1.35	1.09
11:I5:1279:THR:HG21	26:X2:520:GLU:C	1.72	1.09
21:S3:596:ILE:N	21:S4:1119:LEU:HD12	1.66	1.09
22:T1:745:ARG:CA	31:c5:27:MET:HE1	1.81	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:25:GLU:H	31:c2:563:ARG:HD3	0.98	1.09
23:U2:78:VAL:HG13	31:c4:553:LEU:HB2	1.14	1.09
24:V1:287:ASN:HB3	31:c1:11:TYR:CD2	1.88	1.09
26:X2:308:ASN:CB	34:i:315:LEU:HD21	1.82	1.09
28:Z1:555:LYS:C	30:b1:212:PHE:HA	1.65	1.09
28:Z2:526:ARG:N	30:b2:208:ASN:OD1	1.83	1.09
28:Z4:526:ARG:N	30:b4:208:ASN:OD1	1.83	1.09
28:Z4:541:PRO:HD2	30:b4:180:GLY:HA3	1.21	1.09
1:A1:834:GLU:HB3	6:D3:302:PRO:HG3	1.33	1.09
1:A1:874:VAL:HG21	6:D3:272:VAL:HG12	1.11	1.09
1:A1:874:VAL:HG22	6:D3:272:VAL:CG1	1.73	1.09
2:A2:980:ARG:CG	6:D1:473:GLU:HG3	1.79	1.09
2:A2:1094:ILE:HG21	6:D2:759:GLN:HB3	1.34	1.09
2:A2:1132:PRO:HD3	3:A5:160:ILE:HG23	1.12	1.09
2:A2:1148:ARG:HH22	3:A5:169:TYR:C	1.61	1.09
1:A3:1098:ARG:HD2	11:I2:1414:CYS:HB2	1.10	1.09
1:A3:1227:PRO:HG3	3:A6:682:ARG:CD	1.82	1.09
2:A4:87:GLN:HG3	3:A6:393:HIS:ND1	1.52	1.09
2:A4:702:SER:HB3	3:A6:399:ASP:HB3	1.25	1.09
2:A4:757:LEU:C	3:A6:544:PHE:CD2	2.31	1.09
2:A4:774:VAL:HG13	3:A6:467:LEU:HG	1.30	1.09
2:A4:774:VAL:HG12	3:A6:479:VAL:HB	1.22	1.09
2:A4:778:PHE:H	3:A6:481:ARG:NH1	1.41	1.09
2:A4:778:PHE:HB3	6:D3:675:ARG:O	1.50	1.09
2:A4:970:PHE:CA	6:D3:202:GLN:CG	2.29	1.09
3:A5:1033:GLN:NE2	11:I5:70:GLU:HB3	1.54	1.09
3:A5:1094:ILE:HG13	11:I5:4:LEU:HD12	1.12	1.09
3:A5:1367:THR:O	28:Z2:825:TYR:O	1.69	1.09
3:A5:1369:ILE:HD11	28:Z2:832:PHE:N	1.68	1.09
9:G1:266:ASP:HA	16:N2:412:ASN:HA	1.28	1.09
11:I1:917:TYR:CE1	15:M1:586:ASP:O	2.06	1.09
11:I1:962:ILE:HD12	20:R1:164:PRO:C	1.78	1.09
11:I1:962:ILE:HG22	20:R1:166:LEU:HG	1.30	1.09
11:I1:1021:ILE:HD12	16:N1:410:MET:HA	1.26	1.09
11:I2:881:ILE:HG22	17:O3:249:ARG:CG	1.82	1.09
11:I2:947:LEU:HD12	17:O3:260:LEU:HD22	1.27	1.09
23:U1:409:LYS:HE3	31:c2:548:VAL:HG13	1.28	1.09
26:X1:401:LYS:HZ3	37:k2:450:HIS:HB3	0.93	1.09
28:Z1:554:PHE:CD2	30:b1:233:TRP:C	2.13	1.09
28:Z2:541:PRO:HD2	30:b2:180:GLY:HA3	1.21	1.09
28:Z3:521:SER:C	30:b3:238:ASN:HB3	1.77	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:555:LYS:C	30:b3:212:PHE:HA	1.65	1.09
2:A2:988:ARG:CA	6:D1:500:LYS:HZ3	1.66	1.09
2:A2:1159:ASP:CB	3:A5:176:LEU:O	2.01	1.09
1:A3:1186:TRP:O	3:A6:618:ALA:CA	2.00	1.09
1:A3:1186:TRP:O	3:A6:641:ALA:HB3	1.53	1.09
1:A3:1225:PRO:CD	3:A6:548:LEU:CD1	2.10	1.09
1:A3:1232:SER:HB2	3:A6:574:ARG:O	1.52	1.09
1:A3:1251:VAL:HA	3:A6:634:ASP:CG	1.76	1.09
1:A3:1254:LEU:CG	3:A6:638:GLU:HG3	1.82	1.09
2:A4:547:GLU:N	3:A6:366:ALA:HB3	1.66	1.09
2:A4:670:SER:H	3:A6:542:LEU:CD2	1.64	1.09
2:A4:688:TRP:CZ3	3:A6:382:SER:HB3	1.88	1.09
2:A4:778:PHE:CB	3:A6:487:ASP:OD1	2.00	1.09
2:A4:985:ALA:O	6:D3:500:LYS:CD	2.01	1.09
2:A4:989:MSE:HE1	6:D3:242:LEU:N	1.55	1.09
3:A5:1098:ARG:HD2	11:I5:29:GLN:NE2	1.68	1.09
11:I1:921:GLU:OE2	16:N1:392:THR:O	1.69	1.09
11:I1:931:VAL:CG2	15:M1:604:ASN:H	1.65	1.09
11:I1:934:LEU:O	15:M1:606:LEU:HB2	1.49	1.09
11:I1:1107:SER:CB	16:N1:440:GLU:OE1	1.99	1.09
11:I1:1607:GLN:OE1	11:I2:1735:PHE:O	1.71	1.09
11:I1:1665:LEU:HD12	11:I2:1667:GLN:HE21	1.06	1.09
11:I2:887:GLN:HB2	16:N3:393:ILE:HG12	1.31	1.09
11:I2:900:ARG:HA	17:O3:232:LYS:HE2	1.27	1.09
11:I2:980:ILE:C	20:R3:147:LEU:CD1	2.10	1.09
11:I2:1018:LYS:N	16:N3:409:ALA:O	1.84	1.09
11:I4:813:ILE:HD11	26:X3:496:THR:HG21	1.15	1.09
11:I4:1270:LYS:HD2	26:X3:527:VAL:HB	1.35	1.09
21:S2:1032:ILE:HD11	21:S2:1054:LEU:HB2	1.26	1.09
23:U1:434:THR:CG2	31:c2:479:ILE:HG23	1.66	1.09
23:U2:403:SER:HB2	31:c4:551:LEU:HD23	1.29	1.09
23:U2:431:ILE:HD13	31:c4:464:LEU:O	0.91	1.09
23:U2:432:TYR:CD1	31:c4:464:LEU:HA	1.87	1.09
26:X2:208:LEU:HD23	34:i:445:GLN:HA	1.19	1.09
28:Z1:531:LYS:CD	30:b1:182:PRO:O	1.99	1.09
28:Z2:394:ASP:CG	30:b2:241:PRO:HA	1.78	1.09
28:Z2:523:ASP:OD1	30:b2:240:LEU:N	1.86	1.09
28:Z3:528:ILE:HG12	30:b3:210:ARG:NH1	1.51	1.09
28:Z3:554:PHE:CG	30:b3:233:TRP:O	2.06	1.09
28:Z3:557:CYS:HA	30:b3:210:ARG:CA	1.80	1.09
1:A1:874:VAL:HG22	6:D3:272:VAL:CB	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:983:LEU:CB	6:D1:553:PHE:HB3	1.83	1.08
1:A3:1196:GLU:O	3:A6:609:GLU:CG	1.99	1.08
1:A3:1231:VAL:CG2	3:A6:613:ALA:HA	1.82	1.08
1:A3:1232:SER:OG	3:A6:577:ASP:CG	1.81	1.08
1:A3:1245:ASP:HB3	3:A6:587:VAL:HG12	1.34	1.08
1:A3:1270:SER:OG	3:A6:553:ASP:CA	1.99	1.08
2:A4:533:ALA:HB1	3:A6:370:PRO:HG3	1.25	1.08
2:A4:607:ARG:O	3:A6:506:SER:HA	0.91	1.08
2:A4:642:ARG:HE	3:A6:501:VAL:CG2	1.66	1.08
2:A4:678:LEU:CD2	3:A6:431:PHE:CD2	2.35	1.08
2:A4:757:LEU:CB	3:A6:543:GLY:C	2.19	1.08
2:A4:855:THR:C	3:A6:167:TRP:CD1	2.31	1.08
2:A4:857:LYS:NZ	3:A6:129:ASN:ND2	2.00	1.08
2:A4:860:GLU:CB	3:A6:130:ILE:O	2.01	1.08
2:A4:867:GLU:CD	6:D3:605:THR:CB	2.26	1.08
2:A4:867:GLU:H	6:D3:605:THR:HG22	1.08	1.08
2:A4:889:VAL:HG22	3:A6:174:PRO:HA	1.34	1.08
2:A4:954:ILE:HB	4:B6:345:LYS:CA	1.68	1.08
2:A4:1019:ARG:CZ	6:D3:237:PRO:O	2.01	1.08
3:A5:1310:ARG:HH21	28:Z2:827:GLN:HA	1.07	1.08
3:A5:1391:ARG:HB3	28:Z2:871:HIS:H	1.08	1.08
3:A5:1398:LYS:CD	28:Z2:873:LEU:O	2.00	1.08
9:G2:254:ASN:HB2	17:O4:265:ASN:ND2	1.69	1.08
11:I1:939:ASN:ND2	17:O1:265:ASN:OD1	1.80	1.08
11:I1:976:ARG:CB	20:R1:149:ARG:CB	2.26	1.08
11:I1:1055:GLU:HG2	17:O1:280:GLU:CB	1.82	1.08
11:I1:1066:LEU:HB2	16:N1:430:ARG:HD3	1.16	1.08
11:I2:896:PRO:C	17:O3:232:LYS:O	1.96	1.08
11:I2:948:ALA:HB1	17:O3:253:LEU:HA	1.13	1.08
11:I2:966:TRP:CZ3	20:R3:167:GLN:CD	2.18	1.08
11:I2:966:TRP:CZ3	20:R3:167:GLN:HG2	1.84	1.08
11:I2:980:ILE:C	20:R3:147:LEU:HD11	1.56	1.08
11:I2:990:GLU:O	17:O3:272:SER:N	1.86	1.08
11:I2:1051:LYS:HZ3	17:O3:285:LYS:HD2	1.12	1.08
11:I4:1282:PHE:CD2	29:a3:24[B]:GLY:O	2.04	1.08
22:T1:745:ARG:HA	31:c5:27:MET:CE	1.81	1.08
23:U1:139:VAL:O	31:c1:497:LEU:O	1.68	1.08
23:U2:432:TYR:N	31:c4:464:LEU:HB2	1.68	1.08
26:X2:313:LEU:O	34:i:400:LYS:NZ	1.85	1.08
26:X2:333:GLU:HG2	34:i:475:ILE:O	1.52	1.08
26:X2:361:LEU:CD1	34:i:445:GLN:CG	2.17	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:363:TYR:CE1	34:i:419:THR:HG22	1.87	1.08
28:Z1:522:ASN:N	30:b1:241:PRO:HG3	1.53	1.08
28:Z1:535:ILE:HG12	30:b1:182:PRO:CB	1.74	1.08
28:Z2:524:VAL:CG2	30:b2:236:THR:O	1.81	1.08
28:Z3:535:ILE:HG13	30:b3:182:PRO:HB2	1.13	1.08
28:Z4:526:ARG:HB3	30:b4:206:ASN:OD1	1.40	1.08
28:Z4:535:ILE:HG13	30:b4:182:PRO:HB2	1.13	1.08
28:Z4:554:PHE:CG	30:b4:233:TRP:O	2.06	1.08
1:A1:1201:ARG:HD3	2:A2:734:LEU:HD23	1.22	1.08
2:A2:867:GLU:HB3	6:D1:609:ILE:HD11	1.25	1.08
2:A2:870:HIS:HD2	6:D1:551:PHE:HB2	0.94	1.08
2:A2:1151:THR:HG21	5:C2:734:VAL:CB	1.81	1.08
1:A3:1021:LEU:CB	6:D3:816:VAL:HG13	1.76	1.08
1:A3:1223:GLU:HB2	2:A4:676:LEU:HD12	1.12	1.08
1:A3:1229:VAL:HG22	3:A6:574:ARG:CA	1.82	1.08
1:A3:1278:PRO:HG2	3:A6:624:ASP:OD2	1.50	1.08
2:A4:642:ARG:HG3	3:A6:501:VAL:HB	1.25	1.08
2:A4:670:SER:N	3:A6:542:LEU:HD11	1.69	1.08
2:A4:692:VAL:CG1	3:A6:467:LEU:HA	1.82	1.08
2:A4:701:ILE:CD1	3:A6:466:ALA:H	1.60	1.08
2:A4:802:TYR:CZ	3:A6:397:LEU:HD23	1.87	1.08
2:A4:808:GLN:HG3	3:A6:383:PRO:HG2	1.33	1.08
2:A4:897:ASN:HA	3:A6:165:PHE:HB3	1.16	1.08
2:A4:950:ASP:OD1	4:B6:348:PRO:CA	1.84	1.08
3:A5:1359:LEU:CB	28:Z2:878:HIS:N	2.14	1.08
3:A6:520:GLU:CB	6:D3:639:LEU:HD12	1.83	1.08
3:A6:1389:SER:HB2	28:Z4:907:LEU:HA	1.22	1.08
3:A6:1411:ARG:NH1	26:X4:689:ALA:HB2	1.02	1.08
6:D5:783:SER:OG	31:c4:305:SER:CB	2.02	1.08
8:F1:1261:TYR:CG	17:O2:263:GLN:HB2	1.88	1.08
9:G1:254:ASN:CG	15:M2:605:THR:CB	2.19	1.08
9:G1:258:LYS:N	17:O2:253:LEU:HA	1.68	1.08
11:I1:888:GLU:CB	17:O1:242:ARG:HH12	1.65	1.08
11:I1:955:LYS:HE3	16:N1:397:GLU:CA	1.81	1.08
11:I1:960:SER:HB2	16:N1:395:GLU:OE2	1.53	1.08
11:I1:983:LEU:HD12	15:M1:621:ARG:HH21	1.17	1.08
11:I1:1033:PRO:HB3	20:R1:174:ARG:O	1.50	1.08
11:I1:1041:GLN:HB2	15:M1:620:VAL:H	1.07	1.08
11:I1:1667:GLN:HE21	11:I2:1665:LEU:CD1	1.66	1.08
11:I2:850:ILE:CG2	15:M3:598:GLU:CG	2.30	1.08
11:I2:881:ILE:HB	17:O3:249:ARG:O	0.91	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:899:LEU:HG	17:O3:235:ASN:N	1.67	1.08
11:I2:966:TRP:HA	20:R3:154:ALA:N	1.68	1.08
11:I2:980:ILE:C	15:M3:618:GLN:HG3	1.77	1.08
11:I2:1021:ILE:HG12	16:N3:410:MET:HE3	1.27	1.08
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD13	1.28	1.08
18:P1:276:SER:C	18:P4:322:LYS:HD2	1.78	1.08
21:S1:655:ASN:N	21:S2:1156:ILE:O	1.80	1.08
21:S1:660:LEU:CB	21:S2:1102:VAL:HG21	1.81	1.08
23:U2:396:LEU:HD11	31:c4:548:VAL:O	1.48	1.08
23:U2:435:PHE:CZ	31:c4:535:VAL:CG2	2.37	1.08
24:V1:287:ASN:HA	31:c1:11:TYR:CE1	1.88	1.08
26:X2:304:ARG:HA	34:i:317:LEU:HD11	1.32	1.08
28:Z1:394:ASP:CG	30:b1:241:PRO:HA	1.78	1.08
28:Z2:555:LYS:C	30:b2:212:PHE:CA	2.23	1.08
28:Z3:523:ASP:OD1	30:b3:240:LEU:N	1.86	1.08
28:Z3:554:PHE:CD2	30:b3:233:TRP:C	2.14	1.08
28:Z4:521:SER:C	30:b4:238:ASN:HB3	1.77	1.08
2:A2:1160:GLN:CD	3:A5:165:PHE:CA	2.26	1.08
1:A3:1194:HIS:HB2	3:A6:616:ALA:HB2	1.32	1.08
1:A3:1199:GLN:N	2:A4:729:SER:O	1.85	1.08
2:A4:763:LEU:HG	3:A6:470:ARG:CD	1.76	1.08
2:A4:825:ARG:HB2	3:A6:138:LEU:CD1	1.84	1.08
2:A4:868:GLN:HA	6:D3:570:VAL:HG11	1.30	1.08
2:A4:893:LEU:HD22	3:A6:176:LEU:CA	1.82	1.08
2:A4:983:LEU:HB2	6:D3:528:PHE:CE2	1.89	1.08
2:A4:1151:THR:HG21	5:C4:734:VAL:CB	1.81	1.08
3:A5:160:ILE:HD11	5:C2:743:LEU:HD11	1.26	1.08
3:A5:1369:ILE:HG22	28:Z2:830:LEU:CB	1.77	1.08
3:A6:1403:MSE:HE2	28:Z4:964:LEU:CB	1.55	1.08
8:F1:1202:TYR:HB3	17:O2:252:VAL:HG22	1.33	1.08
9:G1:258:LYS:H	17:O2:253:LEU:HA	1.04	1.08
11:I1:837:MET:CE	17:O1:243:LEU:N	2.14	1.08
11:I1:843:GLU:HG2	15:M1:587:GLU:OE2	1.37	1.08
11:I1:846:ILE:HD13	15:M1:594:LYS:HB3	1.11	1.08
11:I1:887:GLN:HB2	16:N1:393:ILE:CD1	1.82	1.08
11:I1:935:GLY:N	15:M1:605:THR:OG1	1.85	1.08
11:I1:950:LEU:HB2	16:N1:407:ALA:CB	1.68	1.08
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD12	1.33	1.08
11:I1:1668:HIS:HB2	11:I2:1668:HIS:HB2	1.35	1.08
11:I2:895:ARG:HD2	17:O3:234:LEU:HB2	1.23	1.08
11:I2:898:VAL:HG23	17:O3:237:PRO:HD3	1.21	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:900:ARG:CG	17:O3:232:LYS:HD3	1.82	1.08
11:I2:948:ALA:HB3	17:O3:257:ALA:H	1.12	1.08
11:I2:1040:HIS:HB2	15:M3:619:ILE:HG22	1.10	1.08
11:I2:1052:LEU:CB	17:O3:283:ALA:HB1	1.78	1.08
15:M1:507:GLN:OE1	18:P1:318:PRO:HG3	1.53	1.08
21:S1:798:ARG:H	31:c4:408:ASN:CA	1.58	1.08
21:S3:601:LEU:CB	21:S4:1156:ILE:CB	2.32	1.08
26:X2:192:LEU:N	34:i:443:THR:CG2	2.14	1.08
28:Z2:410:ASN:CA	30:b2:251:ILE:CD1	2.15	1.08
28:Z4:530:LYS:HB3	30:b4:204:GLU:OE1	1.51	1.08
1:A1:1199:GLN:O	2:A2:730:THR:HA	1.30	1.08
2:A2:780:GLU:CB	6:D1:677:GLN:CB	2.31	1.08
2:A2:781:ARG:CD	6:D1:673:ARG:HH11	1.66	1.08
1:A3:1123:GLU:HG2	3:A6:599:ARG:HD3	1.09	1.08
1:A3:1231:VAL:HG13	3:A6:617:VAL:CG2	1.83	1.08
1:A3:1278:PRO:CB	3:A6:624:ASP:CA	2.27	1.08
1:A3:1332:ARG:NE	6:D3:636:ASP:CG	2.12	1.08
2:A4:690:ALA:HB2	3:A6:398:THR:HA	1.34	1.08
2:A4:691:LYS:HG3	3:A6:316:ARG:HD2	1.16	1.08
2:A4:717:VAL:HG22	3:A6:403:ARG:NH2	1.66	1.08
2:A4:874:VAL:CG2	6:D3:568:ARG:O	2.02	1.08
2:A4:975:GLU:O	6:D3:496:LEU:O	1.71	1.08
3:A5:232:LEU:HD23	5:C2:738:ASP:N	1.68	1.08
3:A5:1091:VAL:HG12	11:I5:36:GLU:CD	1.66	1.08
11:I1:846:ILE:CA	15:M1:594:LYS:HD2	1.83	1.08
11:I1:1048:GLU:HG2	17:O1:284:LYS:O	1.50	1.08
11:I2:837:MET:SD	17:O3:244:GLU:N	2.27	1.08
11:I2:874:LEU:O	17:O3:252:VAL:CA	2.02	1.08
11:I2:881:ILE:O	17:O3:249:ARG:HD3	1.35	1.08
11:I2:925:LEU:HD13	20:R3:156:GLY:H	0.92	1.08
11:I2:952:LEU:HD23	15:M3:602:MET:HB2	1.33	1.08
11:I2:962:ILE:HG23	20:R3:166:LEU:O	1.52	1.08
11:I2:966:TRP:HA	20:R3:154:ALA:H	0.94	1.08
11:I2:1109:LEU:CA	17:O3:290:TYR:OH	2.00	1.08
21:S1:597:ILE:HA	21:S2:1120:PRO:HD3	1.23	1.08
23:U1:202:LEU:HD12	31:c1:571:GLN:NE2	1.66	1.08
23:U2:45:ALA:HB1	31:c4:470:ARG:HB3	1.26	1.08
23:U2:398:ILE:CD1	31:c4:535:VAL:CB	2.07	1.08
26:X2:307:LYS:HD3	34:i:402:PRO:O	1.29	1.08
26:X2:364:TYR:CD2	34:i:421:ILE:O	2.04	1.08
1:A1:873:PRO:CB	6:D3:218:LYS:HZ3	1.63	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1201:ARG:CD	2:A2:734:LEU:CD2	2.32	1.08
2:A2:781:ARG:CD	6:D1:673:ARG:HB3	1.83	1.08
2:A2:973:GLU:HB3	6:D1:205:LEU:HD22	1.16	1.08
1:A3:1021:LEU:CG	6:D3:816:VAL:HG13	1.83	1.08
1:A3:1388:ALA:HB3	3:A6:224:PRO:O	1.49	1.08
2:A4:537:ALA:CB	3:A6:367:ASP:O	2.01	1.08
2:A4:686:THR:HB	3:A6:398:THR:OG1	1.53	1.08
2:A4:692:VAL:HG12	3:A6:466:ALA:O	1.52	1.08
2:A4:711:VAL:CA	3:A6:490:PHE:CB	1.95	1.08
2:A4:730:THR:OG1	3:A6:609:GLU:HG2	1.47	1.08
2:A4:826:ASN:ND2	6:D3:633:LYS:CB	2.16	1.08
3:A5:153:ILE:CD1	5:C2:739:MET:HE3	1.77	1.08
3:A5:186:ILE:CB	5:C2:744:PHE:O	2.00	1.08
3:A5:996:ASN:HB2	11:I5:56:ARG:O	1.51	1.08
3:A5:1363:ASP:N	28:Z2:875:LEU:CB	2.14	1.08
3:A5:1392:ARG:NH1	28:Z2:867:LYS:N	2.02	1.08
3:A5:1406:GLY:H	28:Z2:917:ASP:C	1.59	1.08
3:A6:444:ARG:NE	6:D3:733:ALA:HB1	1.67	1.08
8:F1:1262:HIS:CG	17:O2:259:ASP:HA	1.89	1.08
11:I1:797:LEU:CD1	17:O1:245:GLU:HA	1.81	1.08
11:I1:884:LEU:CD1	16:N1:400:LEU:CD1	2.32	1.08
11:I1:950:LEU:HB2	16:N1:407:ALA:HB2	1.35	1.08
11:I1:1071:LEU:N	16:N1:429:GLU:HG3	1.69	1.08
11:I2:895:ARG:HA	17:O3:236:ASP:N	1.64	1.08
11:I2:911:PRO:HB2	15:M3:584:GLN:HE21	1.05	1.08
11:I2:949:CYS:HB3	15:M3:606:LEU:HB2	1.36	1.08
11:I2:952:LEU:CD1	17:O3:250:LEU:HD13	1.80	1.08
11:I2:977:ASN:HB2	20:R3:150:ASN:HB3	1.29	1.08
11:I2:1058:GLY:CA	17:O3:277:GLU:CA	2.32	1.08
23:U2:25:GLU:HB2	31:c4:486:VAL:HG13	1.16	1.08
23:U2:39:ILE:CD1	31:c4:553:LEU:O	2.01	1.08
23:U2:392:LEU:CD2	31:c4:549:ALA:HA	1.82	1.08
26:X2:201:ARG:NE	34:i:447:CYS:SG	2.04	1.08
28:Z1:523:ASP:OD1	30:b1:240:LEU:N	1.86	1.08
28:Z1:557:CYS:CB	30:b1:210:ARG:NH1	2.05	1.08
28:Z3:410:ASN:C	30:b3:251:ILE:HD13	1.79	1.08
28:Z3:528:ILE:H	30:b3:208:ASN:ND2	1.44	1.08
28:Z4:557:CYS:HA	30:b4:210:ARG:CA	1.80	1.08
1:A1:1204:TRP:CD1	2:A2:645:PHE:HE1	1.71	1.07
2:A2:858:ALA:O	6:D1:606:LYS:HE3	1.52	1.07
2:A2:875:LEU:HD23	6:D1:566:PHE:C	1.75	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1197:ALA:CB	2:A4:728:LYS:HG3	1.82	1.07
1:A3:1203:TYR:HA	3:A6:91:LEU:CD1	1.78	1.07
1:A3:1261:TYR:CZ	3:A6:621:GLN:HG3	1.88	1.07
2:A4:760:LEU:HD12	3:A6:388:GLU:HG2	1.18	1.07
2:A4:777:LEU:HB3	3:A6:481:ARG:HH12	1.05	1.07
2:A4:879:LEU:HB2	6:D3:564:ASN:HB2	1.21	1.07
11:I1:873:ILE:HG23	17:O1:254:ARG:HD2	1.30	1.07
11:I1:882:LYS:HB2	17:O1:245:GLU:O	1.50	1.07
11:I1:919:ALA:HB3	16:N1:392:THR:OG1	1.53	1.07
11:I1:925:LEU:HB3	20:R1:164:PRO:O	1.53	1.07
11:I1:982:GLN:HB3	15:M1:621:ARG:NH2	1.20	1.07
11:I1:1109:LEU:H	16:N1:440:GLU:C	1.61	1.07
11:I2:898:VAL:HG22	17:O3:237:PRO:HD3	1.34	1.07
11:I2:899:LEU:CG	17:O3:235:ASN:H	1.67	1.07
11:I2:990:GLU:O	17:O3:271:GLU:HG2	1.50	1.07
11:I2:1017:VAL:HG22	16:N3:411:GLN:HA	1.31	1.07
11:I2:1037:THR:HG21	20:R3:169:GLY:HA2	1.12	1.07
11:I2:1054:ILE:C	17:O3:281:ALA:H	1.61	1.07
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB2	1.81	1.07
11:I3:1278:ALA:N	26:X1:519:ILE:CB	2.15	1.07
11:I4:1273:GLU:HB3	26:X3:524:SER:HB3	1.09	1.07
17:O4:112:GLY:HA3	18:P1:278:ASN:CB	1.82	1.07
21:S1:1032:ILE:HD11	21:S1:1054:LEU:HB2	1.26	1.07
22:T2:836:ALA:O	31:c4:333:LEU:HD23	1.53	1.07
23:U1:16:SER:CA	31:c2:470:ARG:CD	1.91	1.07
23:U1:19:LEU:CA	31:c2:470:ARG:HB3	1.82	1.07
26:X1:401:LYS:CB	37:k2:450:HIS:CE1	2.35	1.07
26:X2:336:LEU:HD21	34:i:478:PRO:HD2	1.36	1.07
28:Z2:554:PHE:CG	30:b2:233:TRP:O	2.06	1.07
28:Z3:394:ASP:CG	30:b3:241:PRO:HA	1.78	1.07
1:A1:834:GLU:HB2	6:D3:302:PRO:CB	1.83	1.07
1:A1:1201:ARG:NE	2:A2:734:LEU:HB3	1.60	1.07
2:A2:981:PRO:HG2	6:D1:504:LYS:HG3	1.34	1.07
2:A2:982:THR:CG2	6:D1:494:LEU:CA	2.28	1.07
2:A2:1128:ASP:C	3:A5:140:ALA:HB2	1.79	1.07
2:A2:1155:ASN:OD1	3:A5:175:GLU:OE2	1.72	1.07
1:A3:1189:LEU:HD23	3:A6:644:ALA:HB3	1.11	1.07
1:A3:1233:GLN:CB	3:A6:578:ILE:HB	1.84	1.07
1:A3:1392:ARG:CB	3:A6:225:THR:CB	2.20	1.07
2:A4:84:VAL:HG12	3:A6:392:LEU:HB2	1.33	1.07
2:A4:635:ARG:CZ	3:A6:600:LYS:HA	1.78	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:679:TYR:CD2	3:A6:510:TYR:CD1	2.33	1.07
2:A4:710:LEU:HA	3:A6:478:ASP:OD2	1.30	1.07
2:A4:711:VAL:N	3:A6:462:LEU:HD22	1.64	1.07
2:A4:727:ASN:OD1	3:A6:605:TYR:HA	1.49	1.07
2:A4:727:ASN:OD1	3:A6:605:TYR:O	1.72	1.07
2:A4:780:GLU:HG2	6:D3:679:ILE:CG1	1.57	1.07
2:A4:878:LEU:HD22	6:D3:607:PRO:HG2	1.12	1.07
2:A4:975:GLU:CB	6:D3:501:LEU:HB2	1.82	1.07
2:A4:976:LEU:HD21	6:D3:245:ARG:NH1	1.69	1.07
3:A5:186:ILE:HB	5:C2:744:PHE:C	1.79	1.07
3:A5:1385:GLU:OE2	28:Z2:863:ASP:CB	2.02	1.07
3:A6:443:ILE:H	6:D3:691:LEU:HD11	0.98	1.07
6:D5:238:ALA:CB	31:c3:470:ARG:O	2.02	1.07
8:F2:1090:PRO:CB	17:O4:245:GLU:OE2	2.02	1.07
9:G2:263:MET:SD	17:O4:263:GLN:CB	2.42	1.07
11:I1:840:LEU:HG	17:O1:244:GLU:HG2	1.28	1.07
11:I1:921:GLU:HB3	15:M1:596:ILE:CD1	1.85	1.07
11:I1:1021:ILE:CD1	16:N1:410:MET:HB2	1.79	1.07
11:I1:1021:ILE:CA	16:N1:406:HIS:ND1	2.17	1.07
11:I1:1609:GLY:CA	12:J2:295:TYR:CE1	2.34	1.07
11:I2:883:ALA:CB	17:O3:243:LEU:O	2.02	1.07
11:I2:977:ASN:HB3	20:R3:147:LEU:CA	1.84	1.07
11:I2:1064:LYS:O	17:O3:274:GLY:CA	2.01	1.07
11:I3:1271:GLU:N	26:X1:529:TRP:H	1.50	1.07
15:M3:483:LYS:NZ	16:N4:327:LYS:HE3	1.69	1.07
17:O1:104:ASP:OD2	18:P1:322:LYS:CE	2.02	1.07
23:U1:24:ILE:HD11	31:c2:467:GLU:OE2	1.37	1.07
23:U2:400:ASN:ND2	31:c4:550:LYS:HE3	1.56	1.07
23:U2:440:ASP:N	31:c4:428:ARG:CD	2.17	1.07
26:X2:291:LEU:HA	34:i:415:SER:OG	1.25	1.07
26:X2:308:ASN:H	34:i:405:TYR:HB3	0.96	1.07
26:X2:333:GLU:HG2	34:i:475:ILE:C	1.78	1.07
26:X2:363:TYR:CD1	34:i:419:THR:CG2	2.37	1.07
28:Z1:522:ASN:N	30:b1:241:PRO:CG	2.02	1.07
28:Z3:530:LYS:HB3	30:b3:204:GLU:OE1	1.51	1.07
28:Z4:554:PHE:CD2	30:b4:233:TRP:C	2.13	1.07
1:A1:868:GLN:HA	6:D3:280:GLN:HG2	1.28	1.07
1:A1:1222:ALA:HB2	2:A2:615:LEU:CD1	1.73	1.07
2:A2:872:ALA:CB	6:D1:565:MET:HE3	1.82	1.07
2:A2:1144:ASP:N	3:A5:129:ASN:CB	2.16	1.07
1:A3:1189:LEU:HD13	3:A6:614:ALA:HA	1.21	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:CB	2:A4:727:ASN:O	2.01	1.07
1:A3:1277:TRP:CZ3	3:A6:622:GLY:HA2	1.90	1.07
2:A4:544:PHE:O	3:A6:368:SER:OG	1.68	1.07
2:A4:701:ILE:HD12	3:A6:466:ALA:CB	1.82	1.07
2:A4:732:GLN:HG2	3:A6:91:LEU:HD12	1.11	1.07
2:A4:735:ALA:C	3:A6:685:ARG:HH11	1.43	1.07
2:A4:774:VAL:CG1	3:A6:479:VAL:HB	1.59	1.07
2:A4:804:GLN:NE2	3:A6:317:GLY:C	2.12	1.07
2:A4:984:ALA:C	6:D3:498:GLU:CA	2.16	1.07
3:A5:1363:ASP:HB2	28:Z2:871:HIS:O	1.47	1.07
3:A6:520:GLU:HG3	6:D3:681:ALA:HB3	1.32	1.07
3:A6:564:ASN:HD21	6:D3:679:ILE:HD11	1.11	1.07
6:D5:718:LYS:HD3	31:c4:504:ASN:HD21	0.90	1.07
11:I1:797:LEU:HD13	17:O1:245:GLU:HA	1.34	1.07
11:I1:923:GLY:O	15:M1:590:LYS:O	1.72	1.07
11:I1:942:HIS:N	17:O1:259:ASP:C	2.11	1.07
11:I1:957:SER:HB2	20:R1:168:LEU:HG	1.36	1.07
11:I1:1020:ALA:C	16:N1:405:ALA:O	1.97	1.07
11:I1:1607:GLN:HG3	11:I2:1739:GLU:HG2	1.21	1.07
11:I1:1665:LEU:HD12	11:I2:1667:GLN:NE2	1.68	1.07
11:I2:797:LEU:CD2	17:O3:245:GLU:HG3	1.83	1.07
11:I2:888:GLU:N	16:N3:393:ILE:HG22	1.68	1.07
11:I2:896:PRO:CA	17:O3:232:LYS:C	2.26	1.07
11:I2:931:VAL:CB	15:M3:600:ASN:O	2.00	1.07
11:I2:947:LEU:CD1	17:O3:260:LEU:HD22	1.83	1.07
11:I2:1029:LEU:HD11	16:N3:433:GLU:HG2	1.11	1.07
11:I2:1054:ILE:N	17:O3:282:LYS:H	0.95	1.07
11:I2:1054:ILE:CA	17:O3:280:GLU:N	2.14	1.07
11:I2:1058:GLY:HA3	17:O3:277:GLU:CA	1.84	1.07
11:I2:1104:LEU:HG	16:N3:433:GLU:OE2	1.53	1.07
11:I2:1546:TRP:HB3	12:J1:300:ILE:CD1	1.85	1.07
11:I4:813:ILE:O	26:X3:496:THR:CG2	2.01	1.07
11:I4:1279:THR:OG1	26:X3:520:GLU:CD	1.89	1.07
21:S1:677:TYR:C	21:S2:1127:GLN:CB	2.28	1.07
23:U1:38:ILE:CD1	31:c2:475:ALA:N	2.10	1.07
23:U1:434:THR:CG2	31:c2:479:ILE:N	2.15	1.07
23:U2:435:PHE:HE2	31:c4:535:VAL:CG1	1.63	1.07
26:X2:291:LEU:C	34:i:415:SER:HB2	1.79	1.07
26:X2:297:LYS:HG2	34:i:446:LYS:HE2	1.37	1.07
26:X2:298:ASP:H	34:i:369:VAL:CG2	1.67	1.07
26:X2:305:GLU:CG	34:i:325:VAL:HG11	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:523:ASP:OD2	30:b1:239:THR:OG1	1.72	1.07
1:A1:870:HIS:HB2	6:D3:280:GLN:CA	1.82	1.07
2:A2:199:PHE:HA	4:B2:353:LEU:HA	1.36	1.07
2:A2:989:MSE:CE	6:D1:240:ASP:C	2.26	1.07
1:A3:1185:THR:HB	3:A6:639:ASN:O	0.91	1.07
1:A3:1198:GLU:HB2	3:A6:678:LEU:HG	1.36	1.07
1:A3:1254:LEU:CD1	3:A6:638:GLU:CG	1.91	1.07
2:A4:199:PHE:HA	4:B4:353:LEU:HA	1.36	1.07
2:A4:688:TRP:HE1	3:A6:394:LEU:HG	1.13	1.07
2:A4:713:ILE:CA	3:A6:462:LEU:HD11	1.85	1.07
2:A4:715:GLU:HA	3:A6:515:THR:N	1.70	1.07
2:A4:780:GLU:HA	6:D3:679:ILE:HD12	1.36	1.07
2:A4:944:SER:HB2	3:A6:200:VAL:HB	1.24	1.07
2:A4:969:ASP:O	6:D3:192:TYR:CZ	2.07	1.07
2:A4:983:LEU:HD12	6:D3:553:PHE:HB3	1.07	1.07
2:A4:1151:THR:HG21	5:C4:734:VAL:HB	1.10	1.07
3:A5:160:ILE:HD12	5:C2:743:LEU:CD1	1.77	1.07
3:A5:232:LEU:HD12	5:C2:739:MET:HG3	1.08	1.07
3:A5:1029:ILE:CG2	11:I5:71:GLU:N	2.17	1.07
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB1	1.84	1.07
3:A5:1395:LYS:HG3	28:Z2:870:ILE:C	1.80	1.07
3:A6:444:ARG:HG3	6:D3:733:ALA:HB1	1.37	1.07
3:A6:484:PRO:HG2	6:D3:672:GLU:HG3	1.19	1.07
3:A6:565:THR:HB	6:D3:633:LYS:O	1.53	1.07
11:I1:919:ALA:CB	16:N1:392:THR:OG1	2.02	1.07
11:I1:947:LEU:HD11	16:N1:411:GLN:HG2	1.10	1.07
11:I1:956:ILE:HA	20:R1:166:LEU:CD2	1.85	1.07
11:I1:1035:GLN:C	16:N1:441:PHE:HZ	1.42	1.07
11:I1:1103:LEU:HD11	20:R1:175:GLN:NE2	1.70	1.07
11:I1:1540:LYS:CE	11:I2:1739:GLU:CB	2.22	1.07
11:I2:884:LEU:CD2	15:M3:595:MET:SD	2.43	1.07
11:I2:959:SER:N	20:R3:166:LEU:HD11	0.78	1.07
11:I2:980:ILE:HB	15:M3:618:GLN:CB	1.84	1.07
11:I2:981:VAL:HB	20:R3:147:LEU:HD23	1.17	1.07
11:I2:990:GLU:HB3	17:O3:272:SER:CA	1.84	1.07
15:M1:507:GLN:CD	18:P1:318:PRO:HG2	1.78	1.07
17:O4:107:THR:CA	18:P4:318:PRO:HG3	1.83	1.07
23:U1:38:ILE:CB	31:c2:473:THR:HB	1.84	1.07
23:U1:176:GLU:OE1	31:c1:505:SER:HB2	0.91	1.07
23:U2:34:ASP:OD1	31:c4:561:THR:HG21	1.53	1.07
23:U2:75:TRP:CD1	31:c4:475:ALA:HB2	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:430:PRO:O	31:c4:461:PHE:CA	1.90	1.07
26:X2:280:VAL:CG1	34:i:14:TRP:HE1	1.68	1.07
26:X2:297:LYS:CB	34:i:446:LYS:HE3	1.65	1.07
26:X2:321:ALA:HB3	34:i:84:ARG:HE	1.06	1.07
28:Z1:526:ARG:C	30:b1:206:ASN:ND2	2.13	1.07
28:Z1:554:PHE:CG	30:b1:233:TRP:O	2.06	1.07
28:Z2:555:LYS:CA	30:b2:212:PHE:HA	1.84	1.07
28:Z3:555:LYS:C	30:b3:212:PHE:CA	2.24	1.07
2:A2:973:GLU:CB	6:D1:205:LEU:CD2	2.32	1.07
2:A2:982:THR:HB	6:D1:494:LEU:HA	1.37	1.07
1:A3:1083:SER:O	6:D3:798:MET:N	1.87	1.07
1:A3:1120:ASP:O	3:A6:599:ARG:NH2	1.86	1.07
1:A3:1166:LEU:CA	3:A6:594:LEU:CB	2.32	1.07
1:A3:1202:GLU:CB	3:A6:91:LEU:HB3	1.80	1.07
1:A3:1223:GLU:HG2	2:A4:734:LEU:CD1	1.84	1.07
1:A3:1240:HIS:CE1	3:A6:118:SER:H	1.63	1.07
1:A3:1251:VAL:HA	3:A6:634:ASP:HB2	1.34	1.07
1:A3:1254:LEU:C	3:A6:634:ASP:HB3	1.80	1.07
1:A3:1266:GLY:N	3:A6:716:ASN:ND2	2.00	1.07
2:A4:78:VAL:O	3:A6:385:PRO:HD3	1.53	1.07
2:A4:86:ASN:HB2	3:A6:393:HIS:C	1.78	1.07
2:A4:496:THR:HG21	3:A6:366:ALA:HB3	1.24	1.07
2:A4:618:ALA:HA	3:A6:498:ARG:HH11	1.14	1.07
2:A4:689:LYS:NZ	3:A6:336:ILE:HG21	1.69	1.07
2:A4:715:GLU:HG2	3:A6:515:THR:CA	1.85	1.07
2:A4:772:SER:H	3:A6:477:PHE:HB3	0.93	1.07
2:A4:983:LEU:CD2	6:D3:497:PHE:CZ	2.37	1.07
3:A5:1026:PRO:HG2	11:I5:73:TYR:HB2	1.32	1.07
3:A5:1090:SER:C	11:I5:36:GLU:HG3	1.78	1.07
3:A6:520:GLU:CG	6:D3:639:LEU:CD1	2.27	1.07
9:G1:258:LYS:N	17:O2:253:LEU:CA	2.18	1.07
11:I1:895:ARG:HE	17:O1:233:THR:HG22	0.91	1.07
11:I1:920:PHE:CZ	17:O1:247:TRP:NE1	2.21	1.07
11:I1:923:GLY:CA	15:M1:590:LYS:O	2.03	1.07
11:I1:1055:GLU:CB	17:O1:280:GLU:HB2	1.83	1.07
11:I2:833:PHE:CE1	17:O3:245:GLU:HG3	1.89	1.07
11:I2:920:PHE:C	15:M3:592:LEU:HA	1.53	1.07
11:I2:939:ASN:HB3	17:O3:265:ASN:OD1	1.51	1.07
11:I2:967:SER:N	20:R3:153:GLN:NE2	2.03	1.07
11:I2:1043:LEU:HD11	16:N3:433:GLU:HB3	1.13	1.07
11:I4:1282:PHE:CD2	29:a3:24[B]:GLY:N	2.17	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1282:PHE:CD2	29:a3:24[B]:GLY:HA3	1.88	1.07
17:O3:147:ALA:HB1	18:P3:328:PRO:HB2	1.12	1.07
21:S1:682:ASN:O	21:S2:1101:PHE:CZ	2.07	1.07
23:U1:24:ILE:CD1	31:c2:467:GLU:OE2	0.78	1.07
23:U2:394:ILE:CD1	31:c4:535:VAL:O	2.02	1.07
23:U2:432:TYR:H	31:c4:464:LEU:HB2	1.13	1.07
28:Z1:524:VAL:CA	30:b1:236:THR:CG2	2.33	1.07
28:Z2:524:VAL:CA	30:b2:236:THR:CG2	2.33	1.07
28:Z2:526:ARG:C	30:b2:206:ASN:ND2	2.13	1.07
1:A1:834:GLU:CB	6:D3:302:PRO:CG	2.31	1.06
2:A2:224:PRO:HD2	6:D1:709:ARG:NH1	1.70	1.06
2:A2:1125:LEU:HB3	3:A5:135:PHE:N	1.50	1.06
1:A3:1168:LEU:H	3:A6:594:LEU:HD22	1.17	1.06
1:A3:1227:PRO:CB	3:A6:552:PHE:CE2	2.37	1.06
1:A3:1235:ILE:O	3:A6:582:ALA:N	1.71	1.06
1:A3:1248:ILE:HD13	3:A6:640:LEU:HD11	1.34	1.06
1:A3:1282:PHE:HB2	3:A6:625:LEU:O	0.91	1.06
2:A4:540:GLN:O	3:A6:363:ALA:HB3	0.90	1.06
2:A4:652:PRO:CB	3:A6:542:LEU:HD12	1.70	1.06
2:A4:710:LEU:CD2	3:A6:479:VAL:C	2.29	1.06
2:A4:759:ALA:CB	3:A6:388:GLU:HB2	1.85	1.06
2:A4:769:GLU:HA	3:A6:477:PHE:CE1	1.88	1.06
2:A4:774:VAL:HG11	3:A6:467:LEU:CA	1.74	1.06
2:A4:792:VAL:HG11	3:A6:248:VAL:CG1	1.81	1.06
2:A4:859:GLN:NE2	3:A6:167:TRP:CE3	2.21	1.06
2:A4:886:PHE:HA	3:A6:175:GLU:CA	1.85	1.06
2:A4:897:ASN:CA	3:A6:165:PHE:HA	1.83	1.06
2:A4:908:LEU:O	6:D3:555:ARG:CB	2.03	1.06
2:A4:958:LEU:CD1	4:B6:342:ARG:C	1.98	1.06
3:A5:220:VAL:CG1	5:C2:739:MET:HB3	1.83	1.06
3:A6:446:LEU:HD11	6:D3:721:PRO:CA	1.80	1.06
8:F1:1264:ARG:CG	17:O2:263:GLN:O	2.02	1.06
9:G1:254:ASN:HD21	17:O2:261:LYS:CD	1.67	1.06
11:I1:880:MET:HG3	17:O1:247:TRP:O	1.54	1.06
11:I1:920:PHE:HB2	17:O1:243:LEU:CD2	1.84	1.06
11:I1:940:LEU:C	17:O1:259:ASP:O	1.97	1.06
11:I1:955:LYS:HE2	16:N1:396:ILE:O	1.55	1.06
11:I1:957:SER:HB2	20:R1:168:LEU:CG	1.85	1.06
11:I1:990:GLU:HG2	17:O1:275:LEU:CG	1.85	1.06
11:I1:1021:ILE:CG1	16:N1:410:MET:CB	2.34	1.06
11:I2:891:LEU:HD12	16:N3:393:ILE:CD1	1.74	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:896:PRO:N	17:O3:233:THR:C	2.12	1.06
11:I2:967:SER:N	20:R3:153:GLN:CD	1.94	1.06
11:I2:1030:ARG:O	20:R3:177:LEU:N	1.69	1.06
11:I2:1049:LEU:HG	17:O3:291:ASP:CG	1.78	1.06
11:I4:813:ILE:CG1	26:X3:496:THR:HG23	1.83	1.06
23:U1:16:SER:HB3	31:c2:470:ARG:HE	1.16	1.06
23:U1:398:ILE:HA	31:c2:476:PRO:HG3	1.37	1.06
23:U2:24:ILE:HG23	31:c4:485:GLU:HG2	1.13	1.06
23:U2:83:VAL:HG22	31:c4:557:HIS:CE1	1.80	1.06
26:X2:187:THR:CG2	34:i:444:GLU:HA	1.83	1.06
26:X2:192:LEU:H	34:i:443:THR:HG21	0.95	1.06
28:Z1:522:ASN:HB3	30:b1:240:LEU:HB3	1.37	1.06
28:Z1:555:LYS:HE2	30:b1:216:LEU:HD22	1.24	1.06
28:Z1:557:CYS:HA	30:b1:210:ARG:HA	1.37	1.06
28:Z2:554:PHE:CD2	30:b2:233:TRP:C	2.13	1.06
28:Z3:521:SER:OG	30:b3:238:ASN:N	1.88	1.06
28:Z3:526:ARG:C	30:b3:206:ASN:ND2	2.13	1.06
28:Z4:394:ASP:CG	30:b4:241:PRO:HA	1.78	1.06
1:A1:874:VAL:CG1	6:D3:272:VAL:O	2.01	1.06
1:A1:1224:PRO:CG	2:A2:731:ILE:HB	1.85	1.06
2:A2:911:TYR:OH	6:D1:196:ILE:CG2	2.03	1.06
2:A2:911:TYR:CE2	6:D1:555:ARG:NE	2.23	1.06
2:A2:967:GLU:HA	6:D1:202:GLN:OE1	1.55	1.06
1:A3:835:THR:HG21	6:D1:302:PRO:HB2	1.10	1.06
1:A3:1166:LEU:CA	3:A6:594:LEU:HB3	1.85	1.06
1:A3:1197:ALA:HB1	2:A4:728:LYS:HG3	1.07	1.06
1:A3:1200:ARG:HD3	3:A6:609:GLU:HG2	1.29	1.06
1:A3:1260:ALA:HB1	3:A6:719:ARG:HD2	1.34	1.06
2:A4:536:ALA:N	3:A6:369:SER:N	1.96	1.06
2:A4:689:LYS:HB2	3:A6:378:ILE:HD13	1.36	1.06
2:A4:691:LYS:NZ	3:A6:331:SER:N	1.97	1.06
2:A4:737:PRO:C	3:A6:89:LEU:HB3	1.78	1.06
2:A4:753:GLU:OE2	3:A6:542:LEU:HD22	1.54	1.06
2:A4:774:VAL:HG13	3:A6:467:LEU:CG	1.73	1.06
2:A4:870:HIS:ND1	6:D3:566:PHE:CD1	2.23	1.06
2:A4:886:PHE:CE1	3:A6:176:LEU:N	1.96	1.06
2:A4:911:TYR:HE2	6:D3:555:ARG:NH2	1.52	1.06
2:A4:949:PHE:HB3	4:B6:348:PRO:CG	1.84	1.06
2:A4:985:ALA:HA	6:D3:500:LYS:H	0.90	1.06
3:A5:164:LEU:C	5:C2:743:LEU:HB3	1.79	1.06
3:A6:444:ARG:CG	6:D3:737:PHE:CE2	2.38	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:534:LEU:HD12	11:I3:181:GLN:O	1.25	1.06
11:I1:882:LYS:N	17:O1:249:ARG:CD	2.18	1.06
11:I1:947:LEU:CD1	16:N1:411:GLN:HG2	1.85	1.06
11:I1:984:GLU:CB	15:M1:618:GLN:NE2	2.17	1.06
11:I1:1018:LYS:HE3	16:N1:413:VAL:O	1.56	1.06
11:I1:1045:PHE:CE1	16:N1:435:ALA:N	2.24	1.06
11:I2:880:MET:N	17:O3:250:LEU:N	1.96	1.06
11:I2:921:GLU:CA	15:M3:592:LEU:O	2.01	1.06
11:I2:948:ALA:CB	17:O3:253:LEU:C	2.27	1.06
11:I2:957:SER:CA	20:R3:168:LEU:HA	1.84	1.06
11:I2:966:TRP:CE3	20:R3:167:GLN:HB3	1.88	1.06
11:I2:1048:GLU:HG3	17:O3:288:GLU:CG	1.85	1.06
11:I2:1109:LEU:HD22	17:O3:290:TYR:CD2	1.90	1.06
22:T1:824:VAL:CG2	31:c5:55:VAL:CA	2.33	1.06
23:U1:202:LEU:HD13	31:c1:571:GLN:OE1	1.54	1.06
23:U2:37:ASN:H	31:c4:558:GLU:C	1.60	1.06
23:U2:435:PHE:CD1	31:c4:461:PHE:HE1	1.61	1.06
23:U2:435:PHE:CG	31:c4:461:PHE:HE1	1.72	1.06
26:X2:287:ASP:HB3	34:i:492:TRP:HB3	1.31	1.06
2:A2:781:ARG:HE	6:D1:673:ARG:NH1	1.36	1.06
2:A2:781:ARG:HG3	6:D1:673:ARG:CB	1.84	1.06
2:A2:825:ARG:HD3	6:D1:633:LYS:HZ2	1.18	1.06
2:A2:989:MSE:HE1	6:D1:241:ALA:H	1.09	1.06
2:A2:1138:GLU:CB	3:A5:147:LEU:HD11	1.84	1.06
2:A2:1150:LEU:HD23	3:A5:173:ASN:HD22	1.18	1.06
2:A2:1155:ASN:CG	3:A5:175:GLU:CG	2.29	1.06
1:A3:1223:GLU:CG	2:A4:734:LEU:CD1	2.32	1.06
1:A3:1270:SER:CB	3:A6:709:LYS:HZ3	1.67	1.06
2:A4:80:LYS:HG3	3:A6:323:THR:HG21	1.31	1.06
2:A4:621:GLN:CB	3:A6:109:ASP:OD1	2.01	1.06
2:A4:720:LEU:HB3	3:A6:493:ALA:C	1.78	1.06
2:A4:720:LEU:HD11	3:A6:510:TYR:CE1	1.87	1.06
2:A4:868:GLN:OE1	6:D3:570:VAL:HG12	1.55	1.06
2:A4:892:SER:HA	3:A6:232:LEU:N	1.68	1.06
3:A5:172:PRO:HD3	5:C2:730:HIS:CG	1.90	1.06
3:A5:189:VAL:HG21	5:C2:742:ASP:HB3	1.28	1.06
3:A6:483:HIS:HB2	6:D3:675:ARG:HD2	1.30	1.06
3:A6:1403:MSE:CE	28:Z4:964:LEU:CA	2.19	1.06
3:A6:1413:SER:O	28:Z4:994:ILE:HA	1.55	1.06
6:D7:481:ARG:CB	11:I3:183:LYS:HE2	1.76	1.06
6:D7:531:LEU:CA	11:I3:181:GLN:HB3	1.83	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1205:TRP:CD1	17:O2:254:ARG:CD	2.35	1.06
9:G1:255:LEU:N	15:M2:602:MET:CA	2.07	1.06
9:G2:254:ASN:HB2	17:O4:265:ASN:HD21	1.11	1.06
11:I1:797:LEU:HB3	17:O1:245:GLU:HG2	1.10	1.06
11:I1:882:LYS:HB3	17:O1:245:GLU:CB	1.85	1.06
11:I1:916:ALA:O	16:N1:389:PHE:CZ	2.07	1.06
11:I1:923:GLY:H	15:M1:592:LEU:CB	1.43	1.06
11:I1:1667:GLN:CB	11:I2:1664:PHE:N	2.17	1.06
11:I2:874:LEU:HA	17:O3:255:GLY:N	1.70	1.06
11:I2:943:ALA:HA	17:O3:260:LEU:CD1	1.85	1.06
11:I2:976:ARG:NH1	15:M3:622:VAL:HG22	1.69	1.06
11:I2:1020:ALA:O	16:N3:406:HIS:CA	2.04	1.06
11:I2:1041:GLN:NE2	15:M3:617:THR:HG22	1.68	1.06
11:I4:1270:LYS:HE2	26:X3:527:VAL:HG12	1.14	1.06
18:P1:276:SER:O	18:P4:322:LYS:HD2	1.55	1.06
18:P2:319:VAL:HG21	18:P3:278:ASN:OD1	1.51	1.06
21:S3:678:GLU:CB	21:S4:1142:PHE:N	2.18	1.06
23:U1:18:THR:CG2	31:c2:473:THR:CG2	2.08	1.06
23:U2:13:THR:CG2	31:c4:467:GLU:O	2.02	1.06
26:X2:318:GLY:H	34:i:400:LYS:HE2	1.10	1.06
26:X2:333:GLU:CG	34:i:475:ILE:CB	2.28	1.06
28:Z2:555:LYS:CE	30:b2:216:LEU:CD2	2.25	1.06
28:Z3:524:VAL:HG13	30:b3:236:THR:HB	1.32	1.06
1:A1:1224:PRO:CD	2:A2:731:ILE:CD1	2.10	1.06
2:A2:989:MSE:HE1	6:D1:240:ASP:C	1.81	1.06
2:A2:1122:LEU:HD12	3:A5:135:PHE:CD2	1.88	1.06
2:A2:1135:ARG:HE	3:A5:134:VAL:CG1	1.66	1.06
1:A3:1223:GLU:O	3:A6:496:THR:CA	1.78	1.06
1:A3:1233:GLN:CG	3:A6:578:ILE:HB	1.85	1.06
1:A3:1237:LEU:HB3	3:A6:597:GLU:HG3	1.09	1.06
1:A3:1241:ARG:HD3	3:A6:597:GLU:HB2	1.37	1.06
1:A3:1246:SER:O	3:A6:636:ASN:ND2	1.89	1.06
1:A3:1255:LEU:H	3:A6:634:ASP:CB	1.68	1.06
1:A3:1270:SER:OG	3:A6:553:ASP:HB3	1.51	1.06
2:A4:86:ASN:HB2	3:A6:393:HIS:HB2	1.37	1.06
2:A4:238:ARG:NH1	4:B4:349:MET:SD	2.28	1.06
2:A4:547:GLU:N	3:A6:366:ALA:CB	2.19	1.06
2:A4:675:ALA:CB	3:A6:508:LEU:CB	2.32	1.06
2:A4:689:LYS:HD3	3:A6:381:LEU:CD2	1.85	1.06
2:A4:689:LYS:CB	3:A6:378:ILE:HD13	1.86	1.06
2:A4:789:LEU:HD22	3:A6:146:LYS:CD	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:792:VAL:CG2	3:A6:248:VAL:N	2.19	1.06
2:A4:852:ASP:HB2	3:A6:154:GLY:C	1.78	1.06
2:A4:869:ALA:HB1	6:D3:573:LEU:HD23	1.32	1.06
2:A4:908:LEU:CD2	6:D3:601:PHE:C	2.28	1.06
2:A4:925:LYS:CE	3:A6:233:THR:CA	2.26	1.06
2:A4:975:GLU:CB	6:D3:501:LEU:CB	2.32	1.06
2:A4:983:LEU:HD13	6:D3:553:PHE:O	1.52	1.06
5:C3:732:LYS:NZ	11:I2:1225:LYS:CD	2.18	1.06
8:F1:1137:GLN:CA	17:O2:248:SER:HB3	1.79	1.06
8:F1:1261:TYR:CE1	17:O2:263:GLN:CB	2.39	1.06
9:G1:258:LYS:O	17:O2:256:TYR:CB	2.03	1.06
11:I1:873:ILE:HG22	17:O1:255:GLY:N	1.69	1.06
11:I1:954:GLU:HB3	16:N1:402:GLY:C	1.54	1.06
11:I1:966:TRP:CE3	20:R1:167:GLN:HB3	1.74	1.06
11:I1:994:ALA:H	17:O1:271:GLU:HG3	1.18	1.06
11:I1:1036:PRO:O	15:M1:624:ASN:HA	1.55	1.06
11:I1:1042:LEU:HB2	20:R1:170:LEU:CD1	1.86	1.06
11:I1:1118:LEU:HD11	16:N1:432:TYR:CE2	1.91	1.06
11:I2:947:LEU:HG	16:N3:407:ALA:O	0.89	1.06
11:I2:998:ALA:CB	17:O3:267:ALA:CB	2.08	1.06
11:I2:1017:VAL:HG22	17:O3:260:LEU:HD21	1.34	1.06
11:I2:1036:PRO:HG2	15:M3:623:LEU:N	1.47	1.06
11:I2:1040:HIS:CB	15:M3:619:ILE:CG2	2.34	1.06
11:I2:1045:PHE:O	15:M3:619:ILE:HD12	1.53	1.06
11:I4:1282:PHE:CD1	29:a3:23[B]:PRO:HB2	1.87	1.06
21:S1:671:ALA:HB2	21:S2:1146:ALA:H	1.15	1.06
21:S3:676:GLU:CB	21:S4:1146:ALA:HB2	1.84	1.06
23:U1:405:GLU:OE2	31:c2:545:PRO:CG	2.00	1.06
23:U2:26:GLN:CA	31:c4:491:VAL:H	1.68	1.06
23:U2:38:ILE:HA	31:c4:559:ILE:HG23	1.36	1.06
24:V1:339:LEU:CD1	31:c1:627:ASP:CA	2.20	1.06
24:V1:378:SER:CB	31:c1:30:PHE:CE2	2.34	1.06
26:X2:298:ASP:HB2	34:i:369:VAL:HA	1.35	1.06
26:X2:369:GLU:CB	34:i:428:LEU:CD2	1.97	1.06
28:Z1:526:ARG:HB3	30:b1:206:ASN:OD1	1.40	1.06
28:Z2:521:SER:OG	30:b2:238:ASN:N	1.88	1.06
28:Z2:528:ILE:HG12	30:b2:210:ARG:NH1	1.50	1.06
28:Z4:521:SER:OG	30:b4:238:ASN:N	1.88	1.06
28:Z4:523:ASP:OD1	30:b4:240:LEU:N	1.86	1.06
1:A1:1222:ALA:HB1	2:A2:615:LEU:CD1	1.79	1.06
2:A2:781:ARG:HG3	6:D1:673:ARG:HB3	1.29	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:867:GLU:H	6:D1:605:THR:HB	1.18	1.06
1:A3:1186:TRP:CE3	3:A6:641:ALA:HB2	1.89	1.06
1:A3:1198:GLU:HA	3:A6:682:ARG:CZ	1.19	1.06
1:A3:1235:ILE:O	3:A6:583:LEU:N	1.88	1.06
1:A3:1251:VAL:HG23	3:A6:633:MET:HB3	1.11	1.06
2:A4:691:LYS:CG	3:A6:316:ARG:HD2	1.63	1.06
2:A4:734:LEU:HD13	3:A6:95:TYR:CD1	1.89	1.06
2:A4:762:LYS:HB2	3:A6:472:SER:CB	1.86	1.06
2:A4:793:SER:HB3	3:A6:146:LYS:HE2	1.35	1.06
2:A4:826:ASN:ND2	6:D3:633:LYS:HB2	1.69	1.06
2:A4:876:ARG:CD	6:D3:558:LYS:CA	1.89	1.06
2:A4:879:LEU:HD12	6:D3:564:ASN:OD1	0.88	1.06
3:A5:1027:HIS:CD2	11:I5:65:LYS:O	2.08	1.06
3:A5:1098:ARG:CD	11:I5:29:GLN:HE21	1.68	1.06
3:A6:1367:THR:CB	28:Z4:877:ILE:H	1.69	1.06
8:F1:1264:ARG:NE	17:O2:263:GLN:O	1.87	1.06
9:G1:255:LEU:H	15:M2:602:MET:HA	1.15	1.06
11:I1:882:LYS:N	17:O1:249:ARG:HB2	1.64	1.06
11:I1:900:ARG:CG	17:O1:232:LYS:HZ3	1.59	1.06
11:I1:976:ARG:HH22	15:M1:622:VAL:CG1	1.68	1.06
11:I1:996:LEU:HD21	16:N1:410:MET:HE1	1.08	1.06
11:I1:1021:ILE:HG13	16:N1:410:MET:HB2	1.07	1.06
11:I1:1024:PHE:O	20:R1:172:ASP:CG	1.98	1.06
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD11	1.69	1.06
11:I1:1673:VAL:HG11	11:I2:1610:VAL:HG22	1.33	1.06
11:I2:885:GLU:HA	16:N3:397:GLU:HG2	1.08	1.06
11:I2:898:VAL:HG23	17:O3:237:PRO:CD	1.84	1.06
11:I2:958:THR:HA	20:R3:168:LEU:HD21	1.35	1.06
11:I2:982:GLN:HB3	15:M3:621:ARG:HH12	1.15	1.06
11:I2:987:GLY:H	15:M3:613:ASP:HB3	0.97	1.06
11:I2:1043:LEU:H	15:M3:616:LEU:HD11	1.10	1.06
11:I2:1543:LEU:CD2	12:J1:300:ILE:O	2.00	1.06
11:I3:1270:LYS:HE2	26:X1:530:ARG:HG2	1.16	1.06
21:S1:798:ARG:N	31:c4:408:ASN:HA	1.69	1.06
23:U1:24:ILE:HG21	31:c2:471:LEU:HD22	1.38	1.06
23:U1:409:LYS:CE	31:c2:548:VAL:CG1	2.31	1.06
23:U1:431:ILE:HD13	31:c2:469:SER:OG	1.55	1.06
23:U2:78:VAL:O	31:c4:553:LEU:HD11	1.51	1.06
23:U2:404:VAL:HG13	31:c4:544:VAL:N	1.59	1.06
23:U2:436:LEU:HG	31:c4:540:HIS:ND1	1.68	1.06
26:X2:290:GLU:HB2	34:i:492:TRP:CE2	1.89	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:555:LYS:CA	30:b1:212:PHE:HA	1.85	1.06
1:A1:1224:PRO:HD3	2:A2:731:ILE:HG12	1.28	1.05
2:A2:238:ARG:NH1	4:B2:349:MET:SD	2.28	1.05
1:A3:1170:ILE:CG2	3:A6:591:ASP:HB2	1.76	1.05
1:A3:1202:GLU:CG	3:A6:91:LEU:HB3	1.86	1.05
1:A3:1244:LEU:HD22	3:A6:633:MET:CE	1.85	1.05
1:A3:1273:ALA:H	3:A6:554:GLN:CB	1.69	1.05
2:A4:675:ALA:HB1	3:A6:508:LEU:CB	1.85	1.05
2:A4:764:MET:HE3	3:A6:473:PRO:O	1.56	1.05
2:A4:770:GLY:O	3:A6:469:PHE:CE2	2.08	1.05
2:A4:854:VAL:HG12	3:A6:174:PRO:CD	1.85	1.05
2:A4:854:VAL:HG21	3:A6:172:PRO:HD2	1.29	1.05
2:A4:868:GLN:CG	6:D3:608:ILE:HD13	1.77	1.05
3:A5:164:LEU:C	5:C2:743:LEU:CB	2.27	1.05
3:A5:1415:PHE:N	28:Z2:960:CYS:N	2.01	1.05
3:A6:1385:GLU:CD	28:Z4:903:ASN:O	1.99	1.05
3:A6:1398:LYS:HD2	28:Z4:918:PHE:HA	1.18	1.05
11:I1:797:LEU:CD1	17:O1:245:GLU:CA	2.32	1.05
11:I1:920:PHE:HE1	17:O1:247:TRP:NE1	1.33	1.05
11:I1:1056:PRO:CA	17:O1:278:GLU:HG2	1.76	1.05
11:I1:1108:PRO:HG2	16:N1:443:GLU:N	1.62	1.05
11:I2:833:PHE:O	17:O3:241:SER:CA	2.03	1.05
11:I2:919:ALA:CB	16:N3:392:THR:OG1	2.02	1.05
11:I2:921:GLU:C	15:M3:592:LEU:O	1.98	1.05
11:I2:939:ASN:HA	17:O3:264:ILE:C	1.63	1.05
11:I2:951:LYS:HG2	16:N3:404:GLU:HG3	1.33	1.05
11:I2:976:ARG:CB	20:R3:149:ARG:H	1.68	1.05
11:I2:1020:ALA:CB	16:N3:407:ALA:C	2.27	1.05
11:I2:1040:HIS:CE1	16:N3:437:VAL:CG1	2.39	1.05
11:I2:1044:GLY:O	17:O3:280:GLU:HG2	1.55	1.05
11:I2:1186:PRO:HG2	17:O4:221:ASP:OD1	1.39	1.05
11:I3:1270:LYS:HE2	26:X1:530:ARG:CG	1.67	1.05
11:I3:1271:GLU:O	26:X1:525:ILE:HG22	1.54	1.05
11:I3:1278:ALA:H	26:X1:519:ILE:CB	1.68	1.05
23:U1:401:PRO:HB3	31:c2:551:LEU:O	0.88	1.05
23:U2:398:ILE:HG13	31:c4:535:VAL:H	0.93	1.05
23:U2:403:SER:HB3	31:c4:551:LEU:CD2	1.86	1.05
26:X2:291:LEU:HB3	34:i:415:SER:HB3	1.38	1.05
26:X2:301:SER:C	34:i:335:HIS:CD2	2.33	1.05
28:Z2:523:ASP:OD2	30:b2:239:THR:OG1	1.72	1.05
28:Z4:522:ASN:N	30:b4:241:PRO:CG	2.02	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:555:LYS:CA	30:b4:212:PHE:HA	1.85	1.05
1:A1:1332:ARG:NH2	6:D1:685:VAL:HB	1.70	1.05
2:A2:1144:ASP:N	3:A5:129:ASN:HB3	1.69	1.05
1:A3:1098:ARG:HD2	11:I2:1414:CYS:CB	1.85	1.05
1:A3:1196:GLU:O	3:A6:609:GLU:HG2	1.54	1.05
1:A3:1203:TYR:HA	3:A6:91:LEU:CG	1.83	1.05
2:A4:91:LEU:CD2	3:A6:430:GLN:HE22	1.56	1.05
2:A4:537:ALA:CA	3:A6:368:SER:HA	1.85	1.05
2:A4:549:ALA:HB3	3:A6:365:MET:CE	1.80	1.05
2:A4:621:GLN:HB2	3:A6:109:ASP:OD1	1.29	1.05
2:A4:721:ARG:HB3	3:A6:572:ARG:CZ	1.87	1.05
2:A4:724:LEU:HD21	3:A6:95:TYR:OH	1.55	1.05
2:A4:769:GLU:HB3	3:A6:528:ILE:HG22	1.37	1.05
2:A4:806:PHE:HB2	3:A6:382:SER:HB2	1.08	1.05
2:A4:822:ILE:HG23	3:A6:526:ILE:HD12	1.09	1.05
2:A4:975:GLU:H	6:D3:499:LEU:HD12	1.14	1.05
2:A4:988:ARG:NH2	6:D3:499:LEU:CA	2.04	1.05
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CB	1.86	1.05
8:F1:1093:LEU:HD11	17:O2:240:GLY:O	1.56	1.05
8:F2:1090:PRO:HG3	17:O4:245:GLU:CD	1.78	1.05
9:G1:267:GLY:CA	16:N2:414:ALA:C	2.30	1.05
11:I1:883:ALA:HB1	17:O1:243:LEU:C	1.77	1.05
11:I1:914:ASN:HB2	15:M1:588:MET:N	1.41	1.05
11:I1:920:PHE:CZ	17:O1:247:TRP:CE2	2.44	1.05
11:I1:931:VAL:CG2	15:M1:604:ASN:OD1	2.04	1.05
11:I1:981:VAL:HG12	20:R1:151:LYS:HB2	1.09	1.05
11:I1:1043:LEU:O	16:N1:430:ARG:HG3	1.56	1.05
11:I1:1607:GLN:O	12:J2:298:PHE:CG	1.71	1.05
11:I2:840:LEU:HB3	17:O3:247:TRP:CD1	1.89	1.05
11:I2:899:LEU:CD2	17:O3:235:ASN:CG	2.29	1.05
11:I2:1044:GLY:HA2	17:O3:275:LEU:HD12	1.08	1.05
11:I3:777:SER:HB2	29:a2:40[B]:GLU:CG	1.84	1.05
17:O2:110:LEU:HD23	18:P2:321:ILE:O	1.54	1.05
23:U2:14:LYS:CA	31:c4:469:SER:N	2.07	1.05
23:U2:15:PHE:C	31:c4:468:THR:OG1	1.97	1.05
23:U2:396:LEU:CD1	31:c4:552:ARG:H	1.61	1.05
28:Z3:524:VAL:O	30:b3:208:ASN:CG	2.00	1.05
28:Z4:524:VAL:CA	30:b4:236:THR:CG2	2.33	1.05
1:A1:870:HIS:C	6:D3:279:HIS:CB	2.28	1.05
2:A2:987:LYS:HD3	6:D1:555:ARG:NE	1.66	1.05
1:A3:1083:SER:CB	6:D3:798:MET:HE1	1.66	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1195:PHE:HD2	3:A6:678:LEU:N	1.52	1.05
1:A3:1233:GLN:O	3:A6:601:PHE:HZ	1.38	1.05
2:A4:87:GLN:HG2	3:A6:408:ALA:N	1.71	1.05
2:A4:89:LEU:CD1	3:A6:406:LEU:CD1	2.23	1.05
2:A4:718:GLU:HB3	3:A6:121:PRO:HG3	1.38	1.05
2:A4:771:ILE:CD1	3:A6:478:ASP:HB2	1.73	1.05
2:A4:802:TYR:CE1	3:A6:397:LEU:HD23	1.92	1.05
2:A4:802:TYR:CE2	3:A6:397:LEU:HD23	1.91	1.05
2:A4:861:GLN:C	6:D3:607:PRO:CD	2.29	1.05
2:A4:878:LEU:HB3	6:D3:567:LEU:HD13	1.31	1.05
2:A4:893:LEU:HD12	3:A6:175:GLU:CG	1.62	1.05
2:A4:934:TRP:CZ2	4:B6:350:GLU:HB2	1.91	1.05
2:A4:988:ARG:CG	6:D3:500:LYS:HG3	1.86	1.05
2:A4:992:TYR:CB	6:D3:238:ALA:O	1.98	1.05
3:A5:172:PRO:HG3	5:C2:730:HIS:ND1	1.72	1.05
8:F1:1262:HIS:ND1	17:O2:259:ASP:HA	1.60	1.05
11:I1:797:LEU:HD13	17:O1:245:GLU:CB	1.85	1.05
11:I1:846:ILE:C	15:M1:594:LYS:HD3	1.58	1.05
11:I1:846:ILE:HG12	15:M1:591:ASP:CA	1.85	1.05
11:I1:884:LEU:HG	17:O1:246:LEU:HD22	1.09	1.05
11:I1:923:GLY:N	15:M1:592:LEU:HB3	1.70	1.05
11:I1:946:THR:OG1	17:O1:260:LEU:CD2	2.00	1.05
11:I1:946:THR:C	16:N1:407:ALA:HB1	1.82	1.05
11:I1:1036:PRO:O	15:M1:624:ASN:N	1.88	1.05
11:I2:850:ILE:CG2	15:M3:598:GLU:CD	2.29	1.05
11:I2:890:TYR:C	17:O3:239:GLN:HA	1.13	1.05
11:I2:919:ALA:HB2	16:N3:392:THR:OG1	1.54	1.05
11:I2:942:HIS:CG	17:O3:259:ASP:CG	2.32	1.05
11:I2:965:ALA:HB3	20:R3:164:PRO:HA	1.38	1.05
11:I2:967:SER:OG	15:M3:625:GLY:CA	1.99	1.05
11:I2:1059:PRO:HB2	17:O3:274:GLY:O	1.54	1.05
11:I3:815:ILE:HG23	26:X1:497:ARG:N	1.69	1.05
11:I3:1271:GLU:C	26:X1:525:ILE:HG22	1.58	1.05
11:I5:1236:TYR:CD1	29:a2:24[B]:GLY:O	2.10	1.05
17:O3:155:VAL:CG2	18:P3:321:ILE:CG2	2.35	1.05
23:U1:209:CYS:SG	31:c1:624:GLU:OE1	2.14	1.05
23:U2:404:VAL:CG1	31:c4:543:ALA:CA	2.28	1.05
28:Z2:524:VAL:O	30:b2:208:ASN:CG	1.99	1.05
28:Z3:555:LYS:CA	30:b3:212:PHE:HA	1.85	1.05
28:Z4:526:ARG:C	30:b4:206:ASN:ND2	2.13	1.05
1:A3:1052:THR:CB	6:D3:816:VAL:HB	1.80	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1192:GLN:HB2	3:A6:645:PHE:CE2	1.91	1.05
1:A3:1261:TYR:CD2	3:A6:679:TYR:OH	2.09	1.05
1:A3:1321:MET:CE	3:A6:571:ARG:HH22	1.47	1.05
2:A4:536:ALA:C	3:A6:362:PHE:CE2	2.35	1.05
2:A4:669:LEU:CD2	3:A6:542:LEU:H	1.70	1.05
2:A4:680:LEU:HD23	3:A6:470:ARG:HH21	0.95	1.05
2:A4:727:ASN:CG	3:A6:605:TYR:HA	1.80	1.05
2:A4:754:HIS:HB2	3:A6:93:ASP:OD1	1.56	1.05
2:A4:792:VAL:CG1	3:A6:248:VAL:HG12	1.77	1.05
2:A4:1094:ILE:HA	6:D4:708:ASP:OD2	1.55	1.05
2:A4:1098:ARG:NH2	6:D4:709:ARG:HH22	1.54	1.05
3:A5:175:GLU:CG	5:C2:733:LEU:HD11	1.86	1.05
3:A5:1026:PRO:HB3	11:I5:73:TYR:CE1	1.89	1.05
3:A5:1401:VAL:O	28:Z2:918:PHE:CB	2.05	1.05
3:A6:1403:MSE:HA	26:X4:741:GLN:O	1.54	1.05
11:I1:882:LYS:H	17:O1:249:ARG:HB2	0.91	1.05
11:I1:894:VAL:HG21	17:O1:238:ALA:CB	1.87	1.05
11:I1:952:LEU:CA	16:N1:400:LEU:HD22	1.76	1.05
11:I1:1071:LEU:H	16:N1:429:GLU:HG3	1.20	1.05
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG2	1.84	1.05
11:I1:1114:VAL:HG11	16:N1:432:TYR:CE2	1.77	1.05
11:I2:841:PHE:CE1	15:M3:588:MET:HG3	1.90	1.05
11:I2:944:GLU:HA	17:O3:256:TYR:CZ	1.91	1.05
11:I2:1031:ALA:CA	20:R3:173:LEU:HA	1.86	1.05
11:I3:1275:SER:OG	26:X1:522:MET:HA	1.55	1.05
17:O3:158:GLU:O	18:P3:315:GLU:OE1	1.73	1.05
21:S1:652:VAL:C	21:S2:1156:ILE:O	1.97	1.05
22:T1:736:LEU:HD11	31:c5:28:LYS:CE	1.87	1.05
23:U1:140:PRO:HB3	31:c1:502:LYS:N	1.22	1.05
23:U2:25:GLU:C	31:c4:490:GLY:N	2.10	1.05
23:U2:429:ILE:O	31:c4:461:PHE:O	1.71	1.05
23:U2:440:ASP:H	31:c4:428:ARG:CD	1.69	1.05
26:X2:292:LEU:O	34:i:450:GLU:HB2	1.48	1.05
26:X2:298:ASP:CB	34:i:369:VAL:HA	1.84	1.05
28:Z1:524:VAL:O	30:b1:208:ASN:CG	1.99	1.05
28:Z2:407:GLY:HA2	30:b2:251:ILE:HG13	1.38	1.05
28:Z2:522:ASN:HB3	30:b2:240:LEU:HB3	1.37	1.05
1:A1:870:HIS:H	6:D3:280:GLN:HB2	1.18	1.05
2:A2:827:ILE:O	2:A2:863:GLN:CG	2.00	1.05
2:A2:975:GLU:H	6:D1:499:LEU:CG	1.64	1.05
2:A2:1155:ASN:OD1	3:A5:175:GLU:CD	2.00	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1163:TYR:C	3:A6:647:GLU:HB2	1.80	1.05
1:A3:1204:TRP:HB2	2:A4:731:ILE:HG23	1.10	1.05
2:A4:535:PHE:CD1	3:A6:368:SER:HB2	1.86	1.05
2:A4:615:LEU:HG	3:A6:511:PHE:H	1.19	1.05
2:A4:775:LEU:HG	3:A6:479:VAL:HA	1.06	1.05
2:A4:826:ASN:ND2	3:A6:565:THR:HG22	1.71	1.05
2:A4:869:ALA:CB	6:D3:573:LEU:HD23	1.86	1.05
2:A4:989:MSE:HE1	6:D3:242:LEU:H	1.07	1.05
3:A5:172:PRO:CD	5:C2:730:HIS:ND1	2.18	1.05
3:A5:1029:ILE:CG2	11:I5:69:GLY:C	2.21	1.05
3:A5:1054:SER:HB3	11:I5:38:GLN:OE1	1.26	1.05
6:D5:234:LEU:HD11	31:c3:552:ARG:HD3	1.08	1.05
11:I1:885:GLU:C	16:N1:397:GLU:CD	2.24	1.05
11:I1:924:ILE:CD1	15:M1:595:MET:HG2	1.86	1.05
11:I1:941:GLY:H	17:O1:260:LEU:C	1.65	1.05
11:I1:952:LEU:HA	16:N1:400:LEU:HD22	1.15	1.05
11:I1:985:ARG:N	15:M1:613:ASP:HA	1.35	1.05
11:I1:1030:ARG:HG2	20:R1:179:LYS:HE2	1.10	1.05
11:I1:1610:VAL:HG22	11:I2:1673:VAL:HG11	1.07	1.05
11:I1:1611:PHE:CA	11:I2:1673:VAL:N	2.19	1.05
11:I2:917:TYR:O	15:M3:588:MET:HG2	1.55	1.05
11:I2:1035:GLN:O	15:M3:623:LEU:CD2	2.03	1.05
11:I2:1044:GLY:HA2	17:O3:275:LEU:CD1	1.86	1.05
11:I2:1061:ASP:HB2	17:O3:278:GLU:HB2	1.37	1.05
11:I2:1109:LEU:CG	16:N3:438:LEU:HD23	1.83	1.05
11:I4:819:MET:HE1	27:Y3:178:PHE:CD1	1.92	1.05
11:I5:1273:GLU:O	26:X2:521:TRP:HA	1.53	1.05
23:U1:16:SER:HA	31:c2:470:ARG:HD3	1.38	1.05
23:U1:202:LEU:HA	31:c1:632:HIS:CA	1.81	1.05
23:U1:431:ILE:HG13	31:c2:468:THR:C	1.80	1.05
23:U2:398:ILE:CG1	31:c4:535:VAL:HB	1.87	1.05
23:U2:432:TYR:HA	31:c4:539:ILE:HG21	1.34	1.05
23:U2:434:THR:CG2	31:c4:532:TRP:CZ2	2.39	1.05
26:X2:305:GLU:N	34:i:405:TYR:CE1	2.17	1.05
28:Z1:407:GLY:HA2	30:b1:251:ILE:HG13	1.38	1.05
28:Z1:521:SER:OG	30:b1:238:ASN:N	1.88	1.05
28:Z2:557:CYS:HA	30:b2:210:ARG:HA	1.37	1.05
28:Z4:523:ASP:OD2	30:b4:239:THR:OG1	1.73	1.05
1:A1:1204:TRP:CH2	2:A2:676:LEU:HD12	1.91	1.04
1:A1:1224:PRO:CD	2:A2:731:ILE:CB	2.35	1.04
2:A2:908:LEU:CD2	6:D1:602:THR:N	2.09	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:980:ARG:CB	6:D1:473:GLU:HG3	1.86	1.04
2:A2:989:MSE:HE2	6:D1:240:ASP:HA	1.37	1.04
2:A2:1114:ILE:HD11	5:C2:731:LYS:CB	1.87	1.04
2:A2:1142:PHE:HB2	3:A5:130:ILE:CA	1.80	1.04
1:A3:1132:PRO:HD3	3:A6:653:ARG:HH22	1.15	1.04
1:A3:1248:ILE:HD11	3:A6:587:VAL:N	1.71	1.04
1:A3:1248:ILE:HD12	3:A6:587:VAL:CG2	1.61	1.04
2:A4:576:VAL:HG12	3:A6:509:LYS:CD	1.87	1.04
2:A4:616:ALA:H	3:A6:509:LYS:HB2	1.17	1.04
2:A4:621:GLN:CD	3:A6:108:SER:O	1.97	1.04
2:A4:788:ARG:HB3	3:A6:145:THR:HG23	1.39	1.04
2:A4:868:GLN:C	6:D3:570:VAL:CG1	2.30	1.04
2:A4:971:ALA:N	6:D3:202:GLN:CG	2.18	1.04
2:A4:1098:ARG:HH21	6:D4:709:ARG:NH2	1.54	1.04
6:D7:530:ARG:NH1	11:I3:182:VAL:H	1.54	1.04
8:F1:1093:LEU:HG	17:O2:241:SER:HA	1.36	1.04
11:I1:927:HIS:O	15:M1:597:LYS:HA	1.52	1.04
11:I1:952:LEU:N	17:O1:253:LEU:HD13	1.71	1.04
11:I1:996:LEU:HD23	16:N1:410:MET:HE2	1.34	1.04
11:I1:1017:VAL:CA	16:N1:412:ASN:H	1.67	1.04
11:I2:886:LEU:HD12	17:O3:245:GLU:HB3	1.37	1.04
11:I2:891:LEU:HD11	16:N3:393:ILE:HD11	1.35	1.04
11:I2:942:HIS:CB	17:O3:259:ASP:CA	2.28	1.04
11:I2:950:LEU:CG	16:N3:410:MET:SD	2.44	1.04
11:I2:967:SER:CB	15:M3:625:GLY:HA3	1.79	1.04
11:I2:977:ASN:OD1	15:M3:621:ARG:HB3	1.57	1.04
11:I2:982:GLN:CB	15:M3:621:ARG:HH12	1.68	1.04
11:I2:1028:CYS:C	20:R3:169:GLY:C	2.18	1.04
11:I3:816:ASP:HA	26:X1:498:SER:CB	1.86	1.04
11:I4:813:ILE:HD12	26:X3:496:THR:HG22	1.37	1.04
11:I5:1276:GLN:N	26:X2:521:TRP:CD1	2.22	1.04
23:U1:24:ILE:HG22	31:c2:471:LEU:HD21	1.36	1.04
23:U2:391:HIS:HB3	31:c4:477:GLU:N	1.70	1.04
23:U2:426:TYR:HB3	31:c4:463:HIS:HE1	0.92	1.04
26:X2:297:LYS:CD	34:i:446:LYS:NZ	2.20	1.04
26:X2:361:LEU:CG	34:i:423:LYS:CD	2.05	1.04
26:X2:363:TYR:CE1	34:i:419:THR:CG2	2.41	1.04
28:Z4:524:VAL:O	30:b4:208:ASN:CG	2.00	1.04
33:h:126:MET:HE3	33:h:271:LEU:HD13	1.39	1.04
2:A2:973:GLU:CB	6:D1:205:LEU:HD22	1.56	1.04
1:A3:1172:HIS:CG	3:A6:587:VAL:O	1.96	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1248:ILE:CB	3:A6:587:VAL:HG13	1.87	1.04
1:A3:1393:THR:OG1	3:A6:228:GLY:C	2.00	1.04
2:A4:76:PRO:CD	3:A6:322:ASP:HB2	1.88	1.04
2:A4:93:ASP:HB3	3:A6:361:ASP:HB2	1.37	1.04
2:A4:549:ALA:CB	3:A6:105:GLY:O	2.03	1.04
2:A4:608:VAL:HG13	3:A6:100:SER:O	1.57	1.04
2:A4:722:ASN:HB3	3:A6:513:GLN:CG	1.86	1.04
2:A4:767:ILE:HB	3:A6:475:TYR:C	1.74	1.04
2:A4:816:LYS:HD2	3:A6:150:PHE:CA	1.40	1.04
2:A4:817:VAL:HG12	3:A6:146:LYS:HG2	1.39	1.04
2:A4:976:LEU:HD11	6:D3:501:LEU:HD22	1.37	1.04
3:A5:153:ILE:HB	5:C2:739:MET:HE1	1.36	1.04
3:A6:485:ASN:HA	6:D3:673:ARG:C	1.82	1.04
3:A6:1366:LEU:O	28:Z4:874:ASN:CA	2.04	1.04
3:A6:1411:ARG:NH1	26:X4:689:ALA:CB	1.97	1.04
9:G1:254:ASN:HD21	17:O2:261:LYS:HD2	1.16	1.04
9:G1:255:LEU:C	15:M2:602:MET:HB3	1.80	1.04
9:G1:262:SER:O	16:N2:411:GLN:OE1	1.73	1.04
11:I1:843:GLU:CG	15:M1:587:GLU:OE2	1.89	1.04
11:I1:1070:LEU:H	16:N1:429:GLU:HB2	1.22	1.04
11:I1:1110:SER:N	16:N1:437:VAL:C	2.02	1.04
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CB	1.83	1.04
11:I2:890:TYR:H	17:O3:242:ARG:CG	1.69	1.04
11:I2:917:TYR:CD2	15:M3:590:LYS:C	2.19	1.04
11:I2:1017:VAL:CG2	17:O3:260:LEU:HD11	1.87	1.04
18:P2:320:GLN:HG2	18:P3:278:ASN:HB2	1.29	1.04
23:U2:412:LEU:HB2	31:c4:541:ARG:HA	1.34	1.04
26:X2:307:LYS:NZ	34:i:421:ILE:HG21	1.71	1.04
26:X2:365:ILE:CG1	34:i:421:ILE:HG23	1.87	1.04
28:Z4:438:GLU:OE1	30:b4:333:HIS:CE1	2.10	1.04
28:Z4:556:ASN:HA	30:b4:212:PHE:HB2	1.37	1.04
1:A1:873:PRO:HB2	6:D3:218:LYS:HZ1	0.92	1.04
1:A1:1221:ILE:HD12	2:A2:618:ALA:HB2	1.04	1.04
1:A1:1223:GLU:OE1	2:A2:761:GLN:CD	1.99	1.04
2:A2:911:TYR:HE2	6:D1:555:ARG:NE	1.55	1.04
2:A2:970:PHE:CD1	6:D1:196:ILE:CD1	2.41	1.04
2:A2:1132:PRO:HD2	3:A5:160:ILE:HG13	1.36	1.04
1:A3:1221:ILE:HD13	2:A4:641:ALA:C	1.82	1.04
1:A3:1231:VAL:HG21	3:A6:616:ALA:HB3	1.33	1.04
2:A4:574:ARG:HH11	3:A6:453:SER:C	1.64	1.04
2:A4:635:ARG:NH1	3:A6:600:LYS:C	2.15	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:682:ARG:HH21	3:A6:104:PRO:C	1.56	1.04
2:A4:689:LYS:CG	3:A6:336:ILE:CD1	2.33	1.04
2:A4:727:ASN:ND2	3:A6:497:GLY:CA	2.11	1.04
2:A4:769:GLU:C	3:A6:528:ILE:CG2	2.30	1.04
2:A4:859:GLN:HE21	3:A6:176:LEU:HD22	0.95	1.04
2:A4:946:LYS:HB3	4:B6:351:GLU:N	1.67	1.04
2:A4:973:GLU:HA	6:D3:205:LEU:CB	1.87	1.04
3:A5:222:ALA:HB2	5:C2:739:MET:SD	1.96	1.04
3:A6:1402:ASP:CB	26:X4:743:PHE:O	2.05	1.04
11:I1:1021:ILE:HD11	16:N1:410:MET:HG3	1.08	1.04
11:I1:1036:PRO:C	20:R1:173:LEU:HD21	1.74	1.04
11:I1:1667:GLN:HE21	11:I2:1665:LEU:HD12	0.92	1.04
11:I2:874:LEU:HG	17:O3:256:TYR:N	1.71	1.04
11:I2:897:GLU:HB3	17:O3:236:ASP:OD2	1.56	1.04
11:I2:942:HIS:HB3	17:O3:259:ASP:OD2	0.87	1.04
11:I2:958:THR:HA	20:R3:168:LEU:CD2	1.88	1.04
11:I2:1043:LEU:N	15:M3:616:LEU:HD11	1.62	1.04
11:I2:1046:HIS:N	17:O3:280:GLU:HA	1.71	1.04
11:I4:1276:GLN:HA	26:X3:520:GLU:HB2	1.37	1.04
17:O3:102:LYS:CG	18:P3:322:LYS:HZ2	1.70	1.04
21:S1:660:LEU:CA	21:S2:1102:VAL:CG2	2.35	1.04
23:U1:25:GLU:H	31:c2:563:ARG:CD	1.67	1.04
23:U2:37:ASN:O	31:c4:474:ASN:HB2	1.56	1.04
26:X2:196:ASP:OD1	34:i:366:PHE:CD1	2.11	1.04
28:Z2:557:CYS:CB	30:b2:210:ARG:NH1	2.05	1.04
28:Z4:407:GLY:HA2	30:b4:251:ILE:HG13	1.38	1.04
28:Z4:524:VAL:HG13	30:b4:236:THR:HB	1.32	1.04
2:A2:874:VAL:HG22	6:D1:611:LYS:HG2	1.39	1.04
1:A3:1098:ARG:CD	11:I2:1414:CYS:HB2	1.87	1.04
1:A3:1267:GLN:OE1	3:A6:551:GLN:HB2	1.57	1.04
2:A4:542:LEU:O	3:A6:361:ASP:CA	2.02	1.04
2:A4:822:ILE:HG21	3:A6:526:ILE:CD1	1.83	1.04
2:A4:868:GLN:HB3	6:D3:570:VAL:HB	1.34	1.04
2:A4:946:LYS:CA	4:B6:351:GLU:H	1.50	1.04
2:A4:976:LEU:HD22	6:D3:472:PHE:HD2	0.95	1.04
11:I1:919:ALA:HB2	16:N1:389:PHE:O	1.50	1.04
11:I1:952:LEU:HD11	15:M1:599:ILE:HG12	1.35	1.04
11:I1:1037:THR:HG23	20:R1:169:GLY:HA2	1.08	1.04
11:I1:1071:LEU:N	16:N1:429:GLU:CG	2.21	1.04
11:I1:1104:LEU:CB	16:N1:436:ALA:HB3	1.86	1.04
11:I2:899:LEU:HG	17:O3:235:ASN:H	0.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:900:ARG:CA	17:O3:232:LYS:HE2	1.86	1.04
11:I2:981:VAL:N	20:R3:147:LEU:CD2	2.19	1.04
11:I2:1039:ALA:HA	20:R3:170:LEU:HD11	1.31	1.04
11:I4:815:ILE:O	26:X3:497:ARG:HA	1.52	1.04
17:O4:109:PRO:HB2	18:P4:318:PRO:HB2	1.38	1.04
21:S1:680:PRO:O	21:S2:1127:GLN:NE2	1.91	1.04
21:S1:684:THR:H	21:S2:1148:TYR:HA	0.90	1.04
23:U2:413:ILE:HG13	31:c4:541:ARG:H	0.92	1.04
23:U2:413:ILE:CG1	31:c4:541:ARG:N	2.20	1.04
23:U2:426:TYR:CB	31:c4:463:HIS:HE1	1.66	1.04
23:U2:430:PRO:CD	31:c4:458:LYS:CE	2.29	1.04
23:U2:432:TYR:CG	31:c4:464:LEU:HD13	1.90	1.04
23:U2:434:THR:HG22	31:c4:532:TRP:CZ2	1.91	1.04
24:V2:681:LYS:N	31:c2:50:CYS:SG	2.30	1.04
26:X2:287:ASP:CG	34:i:480[A]:MET:HB2	1.83	1.04
26:X2:304:ARG:O	34:i:317:LEU:HD21	0.87	1.04
26:X2:336:LEU:HD13	34:i:478:PRO:HD3	1.08	1.04
28:Z1:555:LYS:CE	30:b1:216:LEU:CD2	2.25	1.04
28:Z1:556:ASN:HA	30:b1:212:PHE:HB2	1.37	1.04
28:Z2:556:ASN:HA	30:b2:212:PHE:HB2	1.37	1.04
28:Z3:438:GLU:OE1	30:b3:333:HIS:CE1	2.10	1.04
1:A1:1226:LEU:H	2:A2:725:GLU:CG	1.67	1.04
2:A2:969:ASP:HA	6:D1:196:ILE:N	1.65	1.04
2:A2:1125:LEU:CB	3:A5:135:PHE:N	2.20	1.04
2:A2:1139:ILE:O	3:A5:130:ILE:C	1.71	1.04
2:A2:1149:THR:CA	5:C2:730:HIS:N	2.18	1.04
1:A3:1197:ALA:C	3:A6:678:LEU:HD21	1.81	1.04
1:A3:1226:LEU:O	3:A6:551:GLN:CD	1.80	1.04
1:A3:1233:GLN:HB2	3:A6:575:LEU:HD12	1.09	1.04
2:A4:577:ASP:HB3	3:A6:453:SER:OG	1.58	1.04
2:A4:635:ARG:NH1	3:A6:600:LYS:CA	2.21	1.04
2:A4:682:ARG:CZ	3:A6:105:GLY:C	2.31	1.04
2:A4:689:LYS:CB	3:A6:336:ILE:HD11	1.87	1.04
2:A4:720:LEU:CB	3:A6:512:GLU:HA	1.87	1.04
2:A4:721:ARG:HG3	3:A6:494:PRO:HD2	1.37	1.04
2:A4:729:SER:C	3:A6:678:LEU:HD21	1.83	1.04
2:A4:813:GLU:OE2	3:A6:191:LEU:N	1.91	1.04
2:A4:866:SER:O	6:D3:598:ILE:HG12	1.55	1.04
2:A4:875:LEU:HD13	6:D3:567:LEU:HD23	1.37	1.04
2:A4:950:ASP:OD2	4:B6:348:PRO:CA	1.92	1.04
2:A4:1114:ILE:HD11	5:C4:731:LYS:CB	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1395:LYS:HG3	28:Z2:870:ILE:O	1.57	1.04
3:A6:444:ARG:HG2	6:D3:737:PHE:CE2	1.91	1.04
3:A6:484:PRO:HB2	6:D3:672:GLU:OE2	1.57	1.04
3:A6:524:ARG:CD	6:D3:677:GLN:HA	1.75	1.04
11:I1:846:ILE:CD1	15:M1:594:LYS:CE	2.04	1.04
11:I1:887:GLN:CB	16:N1:393:ILE:HD13	1.87	1.04
11:I1:921:GLU:HB3	15:M1:596:ILE:HD11	1.12	1.04
11:I1:1021:ILE:N	16:N1:409:ALA:HB3	1.71	1.04
11:I1:1029:LEU:CB	20:R1:171:ALA:C	2.31	1.04
11:I2:874:LEU:N	17:O3:255:GLY:CA	2.14	1.04
11:I2:999:SER:HB2	17:O3:264:ILE:HG21	1.35	1.04
17:O3:102:LYS:CB	18:P3:322:LYS:CE	2.30	1.04
22:T1:819:ASN:HA	31:c5:57:GLU:OE2	1.58	1.04
23:U1:202:LEU:CD1	31:c1:571:GLN:HG3	1.84	1.04
23:U2:39:ILE:HD12	31:c4:557:HIS:N	1.55	1.04
24:V1:339:LEU:CG	31:c1:627:ASP:CA	2.36	1.04
28:Z3:407:GLY:HA2	30:b3:251:ILE:HG13	1.38	1.04
2:A2:225:THR:H	6:D1:709:ARG:CZ	1.70	1.03
2:A2:824:ASN:OD1	2:A2:859:GLN:OE1	1.75	1.03
1:A3:1182:ILE:CG2	3:A6:636:ASN:HA	1.87	1.03
1:A3:1230:TYR:HE1	3:A6:610:THR:CA	1.34	1.03
2:A4:614:ALA:HB1	3:A6:502:THR:HG23	1.03	1.03
2:A4:615:LEU:CD2	3:A6:509:LYS:O	2.05	1.03
2:A4:701:ILE:HG13	3:A6:466:ALA:HA	1.05	1.03
2:A4:720:LEU:HD22	3:A6:494:PRO:HB2	1.37	1.03
2:A4:720:LEU:HD21	3:A6:499:ILE:CD1	1.87	1.03
2:A4:775:LEU:HG	3:A6:479:VAL:CA	1.88	1.03
2:A4:776:MET:HB3	3:A6:525:THR:CG2	1.88	1.03
2:A4:779:ASP:O	6:D3:674:TYR:CA	2.06	1.03
2:A4:826:ASN:HD21	3:A6:565:THR:HG22	0.90	1.03
2:A4:854:VAL:HG11	3:A6:171:HIS:CG	1.92	1.03
2:A4:859:GLN:HB3	3:A6:134:VAL:HG23	1.37	1.03
2:A4:880:ALA:HB3	6:D3:562:GLY:O	1.55	1.03
2:A4:951:GLU:OE1	3:A6:233:THR:CB	2.06	1.03
2:A4:975:GLU:CB	6:D3:499:LEU:CB	2.36	1.03
3:A5:1392:ARG:CD	28:Z2:866:GLU:CB	2.35	1.03
11:I1:840:LEU:CB	17:O1:243:LEU:HB2	1.88	1.03
11:I1:919:ALA:C	15:M1:592:LEU:CD2	2.31	1.03
11:I1:934:LEU:HA	15:M1:602:MET:HE3	1.08	1.03
11:I1:947:LEU:CD1	17:O1:256:TYR:CE2	2.41	1.03
11:I1:949:CYS:SG	15:M1:602:MET:CE	2.45	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:951:LYS:O	16:N1:400:LEU:CA	2.05	1.03
11:I1:990:GLU:HG3	17:O1:275:LEU:HD23	1.08	1.03
11:I1:1020:ALA:N	16:N1:405:ALA:O	1.89	1.03
11:I2:884:LEU:HD11	15:M3:599:ILE:HD11	1.09	1.03
11:I2:899:LEU:CD1	17:O3:234:LEU:H	1.70	1.03
11:I2:1048:GLU:O	17:O3:287:LEU:HD23	1.55	1.03
11:I3:1277:LEU:CD1	26:X1:511:TYR:CD2	2.36	1.03
22:T1:816:LYS:HD3	31:c5:85:ARG:HH12	1.14	1.03
23:U1:35:PRO:HG2	31:c2:556:GLN:HG2	1.37	1.03
23:U1:38:ILE:CG1	31:c2:473:THR:CB	1.87	1.03
23:U2:39:ILE:C	31:c4:474:ASN:O	2.01	1.03
23:U2:78:VAL:HG13	31:c4:553:LEU:CB	1.87	1.03
26:X2:318:GLY:O	34:i:475:ILE:HG23	1.57	1.03
28:Z2:438:GLU:OE1	30:b2:333:HIS:CE1	2.10	1.03
28:Z3:524:VAL:CA	30:b3:236:THR:CG2	2.33	1.03
1:A1:1200:ARG:NE	2:A2:642:ARG:HH21	1.56	1.03
2:A2:970:PHE:CD1	6:D1:196:ILE:HD12	1.93	1.03
2:A2:1148:ARG:CB	3:A5:174:PRO:HD3	1.85	1.03
1:A3:1172:HIS:HB2	3:A6:587:VAL:C	1.80	1.03
1:A3:1201:ARG:NH2	3:A6:537:ALA:HB1	1.69	1.03
1:A3:1267:GLN:OE1	3:A6:551:GLN:C	2.01	1.03
1:A3:1267:GLN:HB3	3:A6:551:GLN:O	1.27	1.03
1:A3:1277:TRP:CH2	3:A6:622:GLY:N	2.27	1.03
2:A4:87:GLN:HG2	3:A6:408:ALA:H	0.90	1.03
2:A4:231:SER:CB	6:D3:709:ARG:NH2	2.20	1.03
2:A4:623:SER:N	3:A6:453:SER:CB	2.05	1.03
2:A4:677:ALA:HB1	3:A6:98:LEU:HG	1.28	1.03
2:A4:736:PRO:HA	3:A6:685:ARG:NH1	1.23	1.03
2:A4:780:GLU:HB3	6:D3:679:ILE:HD11	1.36	1.03
2:A4:789:LEU:CD2	3:A6:146:LYS:HG3	1.87	1.03
2:A4:865:ALA:CB	6:D3:567:LEU:HD22	1.81	1.03
2:A4:890:ALA:CA	3:A6:175:GLU:OE2	2.05	1.03
2:A4:894:THR:CB	3:A6:166:LEU:HB2	1.71	1.03
2:A4:973:GLU:O	6:D3:499:LEU:CG	2.05	1.03
2:A4:985:ALA:HA	6:D3:500:LYS:N	1.74	1.03
3:A5:1026:PRO:C	11:I5:68:ILE:H	1.63	1.03
3:A5:1369:ILE:CG2	28:Z2:831:LEU:H	1.68	1.03
3:A6:484:PRO:HD2	6:D3:672:GLU:HG2	1.38	1.03
3:A6:524:ARG:HD2	6:D3:677:GLN:HA	1.38	1.03
3:A6:1410:ALA:H	26:X4:686:ASP:N	1.56	1.03
11:I2:896:PRO:N	17:O3:233:THR:CA	2.13	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:948:ALA:HB3	17:O3:257:ALA:N	1.73	1.03
11:I2:980:ILE:HD11	20:R3:147:LEU:HB2	1.37	1.03
11:I2:997:SER:CB	16:N3:427:VAL:HG23	1.88	1.03
11:I2:1031:ALA:HB3	20:R3:168:LEU:HD22	1.36	1.03
11:I2:1069:SER:N	16:N3:428:ASP:H	1.41	1.03
11:I2:1100:ILE:O	16:N3:433:GLU:OE2	1.77	1.03
11:I2:1113:LEU:HD21	17:O3:282:LYS:HE2	1.10	1.03
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB3	1.80	1.03
17:O3:147:ALA:CB	18:P3:328:PRO:CG	2.36	1.03
22:T1:720:ILE:HB	31:c5:31:TYR:OH	0.85	1.03
22:T1:741:ASP:OD1	31:c5:24:GLN:HB2	0.86	1.03
22:T1:826:GLY:CA	31:c5:23:ARG:NH2	2.21	1.03
23:U1:198:GLU:CD	31:c1:637:ASP:OD1	2.02	1.03
23:U1:202:LEU:HD11	31:c1:571:GLN:HG3	1.07	1.03
23:U2:19:LEU:O	31:c4:483:ASP:HB2	1.55	1.03
23:U2:394:ILE:HG22	31:c4:535:VAL:HG23	1.38	1.03
26:X2:300:SER:OG	34:i:367:GLU:C	2.00	1.03
28:Z1:438:GLU:OE1	30:b1:333:HIS:CE1	2.10	1.03
28:Z2:410:ASN:C	30:b2:251:ILE:HD13	1.79	1.03
28:Z3:523:ASP:OD2	30:b3:239:THR:OG1	1.72	1.03
28:Z3:557:CYS:HA	30:b3:210:ARG:HA	1.37	1.03
28:Z4:535:ILE:HG12	30:b4:182:PRO:HB3	1.39	1.03
1:A1:1204:TRP:CZ2	2:A2:676:LEU:CD1	2.41	1.03
2:A2:1150:LEU:HD23	3:A5:173:ASN:ND2	1.74	1.03
1:A3:1248:ILE:HG12	3:A6:587:VAL:C	1.82	1.03
2:A4:542:LEU:HD23	3:A6:364:HIS:HD1	1.08	1.03
2:A4:684:VAL:HG23	3:A6:395:MET:HG3	1.35	1.03
2:A4:710:LEU:CA	3:A6:478:ASP:OD2	1.96	1.03
2:A4:721:ARG:N	3:A6:494:PRO:N	1.96	1.03
2:A4:726:ALA:HA	3:A6:575:LEU:HB2	1.33	1.03
2:A4:768:SER:N	3:A6:476:PHE:CA	2.21	1.03
2:A4:781:ARG:CZ	6:D3:633:LYS:CE	2.29	1.03
2:A4:792:VAL:H	3:A6:187:THR:HB	0.94	1.03
2:A4:859:GLN:HG2	3:A6:176:LEU:HD21	1.38	1.03
2:A4:864:ARG:HB2	6:D3:607:PRO:N	1.67	1.03
2:A4:909:LYS:HD2	6:D3:555:ARG:NH2	1.74	1.03
3:A6:444:ARG:N	6:D3:737:PHE:CE2	2.25	1.03
11:I1:843:GLU:OE1	15:M1:590:LYS:HD2	1.59	1.03
11:I1:881:ILE:N	17:O1:249:ARG:CB	2.20	1.03
11:I1:989:GLY:HA3	15:M1:614:ASP:OD1	1.56	1.03
11:I1:1668:HIS:N	11:I2:1664:PHE:C	2.16	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:950:LEU:CD1	16:N3:410:MET:HB3	1.75	1.03
11:I2:981:VAL:HA	20:R3:147:LEU:HD21	1.06	1.03
11:I2:1046:HIS:H	17:O3:280:GLU:CA	1.71	1.03
11:I2:1109:LEU:HD11	17:O3:286:ILE:HG22	1.40	1.03
11:I2:1113:LEU:CD2	17:O3:282:LYS:CE	2.37	1.03
17:O2:111:TYR:N	18:P2:325:ILE:HG21	1.72	1.03
17:O4:109:PRO:HD2	18:P4:318:PRO:HG2	1.41	1.03
22:T1:826:GLY:CA	31:c5:23:ARG:HH22	1.69	1.03
23:U1:274:GLN:CB	25:W2:189:SER:HB3	1.88	1.03
23:U2:14:LYS:HG3	31:c4:469:SER:OG	1.53	1.03
23:U2:430:PRO:HD3	31:c4:458:LYS:HE3	1.40	1.03
23:U2:432:TYR:CD1	31:c4:464:LEU:CB	2.42	1.03
26:X2:309:LEU:CD2	34:i:396:HIS:CB	2.35	1.03
26:X2:321:ALA:CA	34:i:84:ARG:NE	2.21	1.03
26:X2:329:ARG:HD3	34:i:476:LEU:CD1	1.88	1.03
26:X2:329:ARG:HD3	34:i:476:LEU:HD11	1.40	1.03
28:Z4:555:LYS:CE	30:b4:216:LEU:CD2	2.25	1.03
33:h:239:PHE:CE2	33:h:241:LEU:HD11	1.93	1.03
1:A1:1229:VAL:HG21	2:A2:725:GLU:HG2	1.04	1.03
2:A2:974:PRO:CD	6:D1:205:LEU:CD2	2.15	1.03
1:A3:1120:ASP:O	3:A6:599:ARG:CZ	2.06	1.03
1:A3:1227:PRO:HG3	3:A6:682:ARG:HD3	1.05	1.03
1:A3:1231:VAL:HG22	3:A6:613:ALA:CA	1.88	1.03
1:A3:1245:ASP:CB	3:A6:588:SER:OG	2.06	1.03
1:A3:1249:PHE:CD1	3:A6:637:THR:OG1	2.10	1.03
1:A3:1269:ALA:C	3:A6:554:GLN:CB	2.31	1.03
1:A3:1274:ASP:HB3	3:A6:556:PRO:HD2	1.34	1.03
1:A3:1277:TRP:HB3	3:A6:556:PRO:HG2	1.29	1.03
2:A4:555:VAL:N	3:A6:458:THR:N	1.86	1.03
2:A4:871:ASN:CB	6:D3:568:ARG:O	2.06	1.03
3:A5:177:ILE:C	5:C2:740:ARG:CZ	2.25	1.03
3:A5:996:ASN:ND2	11:I5:54:LYS:O	1.90	1.03
11:I1:840:LEU:HB2	17:O1:243:LEU:HB2	1.36	1.03
11:I1:846:ILE:CG1	15:M1:591:ASP:HA	1.88	1.03
11:I1:923:GLY:CA	15:M1:589:GLY:O	2.07	1.03
11:I1:967:SER:HB3	15:M1:625:GLY:CA	1.75	1.03
11:I1:1066:LEU:CA	16:N1:430:ARG:HG2	1.89	1.03
11:I2:797:LEU:HD22	17:O3:245:GLU:HG3	1.04	1.03
11:I2:945:LEU:HD13	17:O3:255:GLY:C	1.83	1.03
11:I2:950:LEU:HD22	16:N3:406:HIS:CD2	1.93	1.03
11:I2:954:GLU:HB3	16:N3:403:VAL:HA	1.41	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:976:ARG:HH21	20:R3:143:PHE:CA	1.72	1.03
21:S1:671:ALA:HB3	21:S2:1146:ALA:HB2	1.40	1.03
21:S3:679:ILE:CA	21:S4:1144:LEU:HD13	1.88	1.03
22:T1:720:ILE:CG2	31:c5:31:TYR:HE2	1.44	1.03
23:U1:176:GLU:CD	31:c1:505:SER:N	2.16	1.03
23:U1:440:ASP:CG	31:c2:462:HIS:HB2	1.83	1.03
23:U2:41:GLU:CG	31:c4:563:ARG:HH11	1.72	1.03
26:X2:290:GLU:HB2	34:i:492:TRP:CD1	1.93	1.03
26:X2:317:PHE:CD2	34:i:477:GLY:N	2.18	1.03
26:X2:321:ALA:HB2	34:i:84:ARG:CG	1.87	1.03
26:X2:365:ILE:HG21	34:i:424:LEU:HD12	1.08	1.03
28:Z3:522:ASN:HB3	30:b3:240:LEU:HB3	1.37	1.03
28:Z4:554:PHE:CD1	30:b4:232:PRO:CG	2.42	1.03
28:Z4:557:CYS:HA	30:b4:210:ARG:HA	1.37	1.03
2:A2:1145:GLY:HA3	3:A5:129:ASN:ND2	1.70	1.03
1:A3:1054:SER:CA	6:D3:809:ALA:O	2.07	1.03
1:A3:1198:GLU:HB3	3:A6:678:LEU:CG	1.81	1.03
1:A3:1224:PRO:CB	3:A6:500:LYS:CB	2.14	1.03
1:A3:1244:LEU:CB	3:A6:633:MET:CE	2.33	1.03
2:A4:718:GLU:O	3:A6:513:GLN:HB2	1.56	1.03
2:A4:769:GLU:HB3	3:A6:528:ILE:CG2	1.89	1.03
2:A4:776:MET:HB3	3:A6:525:THR:HG23	1.40	1.03
2:A4:820:LYS:HB2	3:A6:148:GLY:O	1.59	1.03
2:A4:822:ILE:O	3:A6:564:ASN:O	1.76	1.03
2:A4:859:GLN:HB3	3:A6:134:VAL:H	1.22	1.03
3:A5:1369:ILE:HG12	28:Z2:828:LEU:O	1.54	1.03
9:G1:263:MET:HB3	17:O2:260:LEU:HD22	1.39	1.03
11:I1:849:LEU:CD1	17:O1:247:TRP:CD2	2.42	1.03
11:I1:877:ILE:HG22	17:O1:253:LEU:H	1.19	1.03
11:I1:884:LEU:HD22	16:N1:396:ILE:HB	1.09	1.03
11:I1:942:HIS:O	17:O1:260:LEU:HB2	1.59	1.03
11:I1:955:LYS:CE	16:N1:397:GLU:C	2.29	1.03
11:I1:1108:PRO:CB	16:N1:443:GLU:CB	2.37	1.03
11:I1:1665:LEU:CB	11:I2:1667:GLN:HG2	1.83	1.03
11:I2:884:LEU:CG	16:N3:400:LEU:HD11	1.87	1.03
11:I2:940:LEU:HD12	17:O3:258:GLU:O	1.57	1.03
11:I2:943:ALA:HA	17:O3:260:LEU:HD13	1.05	1.03
11:I2:1034:ASP:CG	15:M3:630:LEU:HD13	1.83	1.03
11:I3:1275:SER:CB	26:X1:522:MET:CB	2.37	1.03
21:S3:679:ILE:HA	21:S4:1144:LEU:HD13	1.05	1.03
23:U1:409:LYS:HE2	31:c2:548:VAL:HG13	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:78:VAL:HG12	31:c4:553:LEU:HD12	1.36	1.03
23:U2:398:ILE:HG12	31:c4:531:TRP:O	1.58	1.03
23:U2:410:SER:O	31:c4:540:HIS:O	1.75	1.03
26:X2:329:ARG:NH2	34:i:475:ILE:CG1	2.19	1.03
26:X2:333:GLU:HG2	34:i:475:ILE:CA	1.89	1.03
28:Z1:438:GLU:HB3	30:b1:314:PRO:CG	1.89	1.03
28:Z1:525:LEU:C	30:b1:208:ASN:ND2	2.17	1.03
2:A2:864:ARG:NH1	6:D1:610:ASN:CG	2.13	1.02
2:A2:870:HIS:CE1	6:D1:566:PHE:CG	2.47	1.02
2:A2:873:PRO:O	6:D1:563:GLU:CB	2.06	1.02
2:A2:1157:TYR:CG	3:A5:131:PRO:CB	2.14	1.02
1:A3:1194:HIS:ND1	3:A6:552:PHE:HE2	1.48	1.02
1:A3:1254:LEU:HA	3:A6:638:GLU:CD	1.84	1.02
2:A4:171:HIS:NE2	6:D3:708:ASP:OD2	1.91	1.02
2:A4:727:ASN:OD1	3:A6:605:TYR:C	2.02	1.02
2:A4:778:PHE:CA	3:A6:487:ASP:OD1	2.05	1.02
2:A4:780:GLU:HB2	3:A6:524:ARG:CB	1.89	1.02
2:A4:789:LEU:HD21	3:A6:146:LYS:HG3	1.41	1.02
2:A4:801:THR:OG1	3:A6:381:LEU:HG	1.56	1.02
2:A4:826:ASN:ND2	3:A6:565:THR:HA	1.72	1.02
2:A4:868:GLN:CD	6:D3:608:ILE:HD12	1.83	1.02
2:A4:878:LEU:HD23	6:D3:607:PRO:HB2	1.03	1.02
2:A4:893:LEU:HD12	3:A6:175:GLU:HG3	1.15	1.02
3:A5:996:ASN:HD22	11:I5:58:ALA:HB3	1.05	1.02
3:A5:1315:VAL:HB	28:Z2:833:ASP:O	1.59	1.02
3:A5:1405:LEU:HB2	28:Z2:918:PHE:CB	1.89	1.02
3:A6:444:ARG:NE	6:D3:733:ALA:CB	2.20	1.02
8:F1:1267:ARG:CG	17:O2:265:ASN:O	2.07	1.02
11:I1:840:LEU:HG	17:O1:244:GLU:HG3	1.07	1.02
11:I1:877:ILE:HG21	17:O1:253:LEU:N	1.69	1.02
11:I1:890:TYR:CE1	17:O1:240:GLY:N	1.91	1.02
11:I1:920:PHE:HZ	17:O1:247:TRP:CE2	1.76	1.02
11:I1:934:LEU:HD12	15:M1:599:ILE:O	1.58	1.02
11:I1:946:THR:O	16:N1:407:ALA:CB	2.07	1.02
11:I1:967:SER:HB3	15:M1:625:GLY:HA2	1.05	1.02
11:I1:984:GLU:C	15:M1:613:ASP:HA	1.83	1.02
11:I1:1066:LEU:HB3	16:N1:430:ARG:HB3	1.33	1.02
11:I1:1107:SER:HB3	16:N1:440:GLU:OE1	1.23	1.02
11:I2:828:VAL:HG12	17:O3:237:PRO:HG2	1.37	1.02
11:I2:874:LEU:CB	17:O3:255:GLY:HA3	1.88	1.02
11:I2:887:GLN:HB2	16:N3:393:ILE:CG1	1.86	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:942:HIS:CB	17:O3:259:ASP:CB	2.37	1.02
21:S1:677:TYR:O	21:S2:1127:GLN:CB	2.05	1.02
21:S1:798:ARG:H	31:c4:408:ASN:HA	0.89	1.02
21:S3:678:GLU:CB	21:S4:1141:GLU:N	2.22	1.02
22:T1:748:LEU:HD12	31:c5:27:MET:HE2	1.40	1.02
23:U2:40:ARG:HH11	31:c4:560:ASN:HB3	1.19	1.02
23:U2:391:HIS:CB	31:c4:477:GLU:CA	2.31	1.02
23:U2:394:ILE:CG1	31:c4:538:LEU:HB3	1.83	1.02
28:Z4:522:ASN:HB3	30:b4:240:LEU:HB3	1.37	1.02
1:A1:874:VAL:HG22	6:D3:272:VAL:HB	1.36	1.02
2:A2:876:ARG:HD2	6:D1:558:LYS:HG2	1.37	1.02
2:A2:980:ARG:NE	6:D1:525:ARG:HA	1.30	1.02
1:A3:1186:TRP:H	3:A6:639:ASN:HA	1.19	1.02
1:A3:1196:GLU:OE1	3:A6:611:ILE:CG1	2.07	1.02
1:A3:1233:GLN:HG2	3:A6:578:ILE:CD1	1.89	1.02
1:A3:1279:ILE:C	3:A6:625:LEU:HA	1.80	1.02
2:A4:89:LEU:HD13	3:A6:406:LEU:HD12	1.05	1.02
2:A4:607:ARG:CG	3:A6:505:ALA:HB3	1.88	1.02
2:A4:615:LEU:HD23	3:A6:509:LYS:O	1.58	1.02
2:A4:678:LEU:HD21	3:A6:103:ARG:C	1.84	1.02
2:A4:722:ASN:HB3	3:A6:513:GLN:HG3	1.02	1.02
2:A4:760:LEU:HD13	3:A6:388:GLU:HG3	1.42	1.02
2:A4:780:GLU:CD	6:D3:679:ILE:CG2	2.32	1.02
2:A4:861:GLN:CA	6:D3:607:PRO:CD	2.35	1.02
2:A4:870:HIS:O	6:D3:551:PHE:CG	2.12	1.02
2:A4:972:GLY:O	6:D3:206:VAL:HG12	1.60	1.02
2:A4:989:MSE:CE	6:D3:240:ASP:CG	2.31	1.02
3:A6:1370:ALA:CB	28:Z4:870:ILE:O	2.07	1.02
11:I1:873:ILE:CG2	17:O1:254:ARG:CG	2.33	1.02
11:I1:919:ALA:CB	16:N1:389:PHE:C	2.17	1.02
11:I1:1034:ASP:OD1	15:M1:627:LEU:CD2	2.07	1.02
11:I2:884:LEU:CD1	16:N3:400:LEU:CD1	2.03	1.02
11:I2:1051:LYS:NZ	17:O3:285:LYS:HD2	1.72	1.02
11:I2:1054:ILE:C	17:O3:281:ALA:HB3	1.82	1.02
11:I2:1055:GLU:HG3	17:O3:277:GLU:O	1.59	1.02
22:T1:720:ILE:CG2	31:c5:31:TYR:CZ	2.42	1.02
22:T1:736:LEU:CD1	31:c5:19:THR:OG1	2.06	1.02
23:U1:135:ARG:CG	31:c1:634:HIS:O	2.07	1.02
23:U2:21:GLU:O	31:c4:486:VAL:CB	2.06	1.02
23:U2:39:ILE:N	31:c4:556:GLN:HA	1.62	1.02
23:U2:396:LEU:HD12	31:c4:552:ARG:H	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:197:VAL:CG2	34:i:442:SER:N	2.21	1.02
26:X2:360:PHE:HB3	34:i:423:LYS:HG2	1.38	1.02
26:X2:361:LEU:HD13	34:i:445:GLN:HG2	1.07	1.02
26:X2:365:ILE:CG1	34:i:421:ILE:CG2	2.38	1.02
28:Z1:554:PHE:CD1	30:b1:233:TRP:O	2.12	1.02
2:A2:827:ILE:HA	2:A2:860:GLU:HA	1.04	1.02
1:A3:1170:ILE:HA	3:A6:590:SER:C	1.82	1.02
1:A3:1203:TYR:CA	3:A6:91:LEU:CG	2.10	1.02
1:A3:1223:GLU:HG2	2:A4:734:LEU:HD11	1.04	1.02
1:A3:1248:ILE:HD13	3:A6:640:LEU:HD12	1.39	1.02
1:A3:1281:LEU:HD11	3:A6:577:ASP:O	1.58	1.02
2:A4:90:GLN:OE1	3:A6:427:MET:CA	1.89	1.02
2:A4:712:THR:HG21	3:A6:461:ALA:HB3	1.35	1.02
2:A4:720:LEU:CB	3:A6:493:ALA:O	2.08	1.02
2:A4:761:GLN:NE2	3:A6:535:PHE:CZ	2.28	1.02
2:A4:805:LEU:HD11	3:A6:469:PHE:CE2	1.24	1.02
2:A4:823:VAL:HG12	3:A6:130:ILE:HG23	1.39	1.02
2:A4:825:ARG:N	3:A6:138:LEU:CD1	2.02	1.02
2:A4:859:GLN:CB	3:A6:134:VAL:CG2	2.30	1.02
3:A5:1365:VAL:HG22	28:Z2:838:GLN:O	1.55	1.02
3:A6:136:GLU:C	6:D3:603:SER:CB	2.28	1.02
3:A6:1413:SER:CA	28:Z4:994:ILE:CB	2.38	1.02
9:G1:255:LEU:N	15:M2:602:MET:CB	2.19	1.02
11:I1:874:LEU:HD21	17:O1:252:VAL:HG13	1.03	1.02
11:I1:883:ALA:HB1	17:O1:243:LEU:HA	1.05	1.02
11:I1:934:LEU:N	15:M1:602:MET:HA	1.28	1.02
11:I1:955:LYS:NZ	16:N1:397:GLU:HA	1.73	1.02
11:I1:966:TRP:CG	20:R1:165:SER:O	2.11	1.02
11:I1:966:TRP:CZ3	20:R1:167:GLN:HG2	1.94	1.02
11:I1:987:GLY:H	15:M1:613:ASP:C	1.66	1.02
11:I1:1051:LYS:HE3	17:O1:289:ASP:CA	1.69	1.02
11:I2:966:TRP:CZ3	20:R3:167:GLN:CB	2.43	1.02
11:I2:995:SER:CA	17:O3:267:ALA:HB3	1.88	1.02
11:I2:1017:VAL:CG2	16:N3:411:GLN:CA	1.81	1.02
11:I2:1029:LEU:HB3	20:R3:174:ARG:HG3	1.03	1.02
11:I2:1067:PHE:N	16:N3:430:ARG:CG	2.21	1.02
11:I4:816:ASP:CG	26:X3:497:ARG:NH1	2.17	1.02
22:T1:736:LEU:CB	31:c5:19:THR:CB	2.23	1.02
23:U1:38:ILE:HD11	31:c2:475:ALA:H	0.98	1.02
23:U2:433:ALA:HB2	31:c4:462:HIS:N	1.71	1.02
26:X2:187:THR:O	34:i:443:THR:OG1	1.78	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:187:THR:HG21	34:i:444:GLU:CB	1.86	1.02
26:X2:300:SER:HB2	34:i:367:GLU:O	1.56	1.02
26:X2:303:PHE:HA	34:i:416:VAL:HG11	1.35	1.02
26:X2:363:TYR:CG	34:i:419:THR:CG2	2.43	1.02
28:Z2:525:LEU:C	30:b2:208:ASN:ND2	2.17	1.02
28:Z3:554:PHE:CD1	30:b3:233:TRP:O	2.12	1.02
28:Z3:556:ASN:HA	30:b3:212:PHE:HB2	1.37	1.02
1:A1:1222:ALA:CA	2:A2:615:LEU:HD13	1.90	1.02
2:A2:873:PRO:O	6:D1:563:GLU:CD	2.00	1.02
2:A2:874:VAL:H	6:D1:568:ARG:CA	1.67	1.02
2:A2:1148:ARG:NH2	3:A5:169:TYR:C	2.17	1.02
2:A2:1159:ASP:CA	4:B5:342:ARG:N	2.23	1.02
1:A3:1117:ILE:HG22	3:A6:592:ASP:OD2	1.48	1.02
1:A3:1278:PRO:CD	3:A6:624:ASP:HB2	1.89	1.02
2:A4:577:ASP:CB	3:A6:453:SER:OG	2.06	1.02
2:A4:688:TRP:HB2	3:A6:395:MET:HG2	1.40	1.02
2:A4:724:LEU:HB3	3:A6:496:THR:HG21	1.37	1.02
2:A4:727:ASN:ND2	3:A6:605:TYR:CD1	2.27	1.02
2:A4:767:ILE:CA	3:A6:470:ARG:CA	2.38	1.02
2:A4:779:ASP:HB2	3:A6:487:ASP:HB2	1.38	1.02
2:A4:780:GLU:OE1	6:D3:679:ILE:CG2	2.08	1.02
2:A4:780:GLU:CB	6:D3:679:ILE:HG12	1.70	1.02
2:A4:868:GLN:OE1	6:D3:570:VAL:C	2.03	1.02
2:A4:868:GLN:C	6:D3:570:VAL:HG11	1.83	1.02
2:A4:947:LYS:N	4:B6:348:PRO:O	1.92	1.02
2:A4:974:PRO:HA	6:D3:499:LEU:HD11	1.38	1.02
2:A4:985:ALA:CB	6:D3:496:LEU:O	2.07	1.02
3:A5:1056:PHE:HD2	11:I5:37:GLU:CG	1.73	1.02
3:A5:1416:ARG:CG	28:Z2:962:LYS:CB	2.07	1.02
3:A6:520:GLU:OE1	6:D3:636:ASP:HA	1.58	1.02
9:G1:263:MET:HA	16:N2:411:GLN:HB2	1.05	1.02
9:G1:263:MET:O	16:N2:411:GLN:HB2	1.57	1.02
9:G2:255:LEU:CA	17:O4:262:ASP:OD2	2.08	1.02
9:G2:257:THR:HG23	17:O4:256:TYR:N	1.70	1.02
11:I1:880:MET:CG	17:O1:247:TRP:CA	2.36	1.02
11:I1:952:LEU:O	16:N1:400:LEU:HD23	1.57	1.02
11:I1:1021:ILE:HG13	16:N1:410:MET:CB	1.89	1.02
11:I1:1036:PRO:O	15:M1:624:ASN:CA	2.06	1.02
11:I1:1052:LEU:HB2	16:N1:438:LEU:HD13	1.37	1.02
11:I2:1029:LEU:HA	20:R3:173:LEU:HB3	1.42	1.02
11:I2:1059:PRO:CB	17:O3:274:GLY:C	2.32	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1267:LEU:CG	26:X1:497:ARG:NH2	2.20	1.02
11:I4:819:MET:HB2	26:X3:501:LYS:CD	1.88	1.02
23:U1:430:PRO:HB3	31:c2:465:PRO:HB3	1.42	1.02
23:U2:24:ILE:HB	31:c4:482:LEU:O	1.60	1.02
23:U2:40:ARG:HB3	31:c4:560:ASN:OD1	1.22	1.02
23:U2:396:LEU:CD1	31:c4:548:VAL:C	2.32	1.02
23:U2:426:TYR:CA	31:c4:463:HIS:CE1	2.43	1.02
23:U3:278:GLN:HG3	25:W4:189:SER:HB3	1.38	1.02
26:X2:196:ASP:CA	34:i:364:TYR:CE2	2.42	1.02
28:Z1:522:ASN:H	30:b1:241:PRO:HG2	1.23	1.02
28:Z1:554:PHE:CD1	30:b1:232:PRO:CG	2.42	1.02
28:Z3:438:GLU:HB3	30:b3:314:PRO:CG	1.89	1.02
28:Z4:410:ASN:C	30:b4:251:ILE:HD13	1.79	1.02
28:Z4:554:PHE:CD1	30:b4:233:TRP:O	2.12	1.02
1:A1:870:HIS:HD1	6:D3:279:HIS:CE1	1.74	1.02
1:A1:1332:ARG:HH21	6:D1:685:VAL:HB	1.24	1.02
2:A2:866:SER:O	6:D1:598:ILE:HG23	0.84	1.02
2:A2:869:ALA:CB	6:D1:574:VAL:CG2	2.29	1.02
2:A2:1155:ASN:HD21	5:C2:735:ILE:HA	1.21	1.02
1:A3:1118:GLN:N	3:A6:592:ASP:OD1	1.88	1.02
1:A3:1186:TRP:H	3:A6:639:ASN:CA	1.73	1.02
1:A3:1260:ALA:HB3	3:A6:719:ARG:CZ	1.90	1.02
1:A3:1267:GLN:OE1	3:A6:551:GLN:CB	2.08	1.02
2:A4:555:VAL:H	3:A6:458:THR:N	1.42	1.02
2:A4:614:ALA:HB3	3:A6:502:THR:HG21	1.05	1.02
2:A4:677:ALA:CA	3:A6:98:LEU:HD12	1.82	1.02
2:A4:682:ARG:HB2	3:A6:431:PHE:CZ	1.20	1.02
2:A4:684:VAL:CG2	3:A6:395:MET:CG	2.36	1.02
2:A4:687:LEU:HD11	3:A6:476:PHE:CZ	1.94	1.02
2:A4:772:SER:H	3:A6:477:PHE:CB	1.73	1.02
2:A4:779:ASP:OD1	3:A6:486:GLN:HA	1.59	1.02
2:A4:827:ILE:CA	3:A6:132:ASP:HA	1.90	1.02
2:A4:828:ALA:O	6:D3:605:THR:OG1	1.76	1.02
2:A4:949:PHE:C	4:B6:347:LEU:CD2	2.30	1.02
2:A4:954:ILE:HB	4:B6:345:LYS:C	1.84	1.02
2:A4:985:ALA:HB2	6:D3:496:LEU:O	1.59	1.02
2:A4:1155:ASN:HD21	5:C4:735:ILE:HA	1.20	1.02
3:A6:523:ASN:HD21	6:D3:635:ALA:HB3	1.24	1.02
4:B5:344:ALA:HB1	5:C2:737:LYS:CG	1.90	1.02
6:D7:528:PHE:C	11:I3:181:GLN:NE2	2.18	1.02
9:G1:255:LEU:CD1	17:O2:257:ALA:HB3	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:950:LEU:HB2	16:N1:407:ALA:N	1.71	1.02
11:I1:1029:LEU:CA	20:R1:171:ALA:O	2.07	1.02
11:I1:1030:ARG:N	20:R1:172:ASP:O	1.91	1.02
11:I1:1040:HIS:HE2	16:N1:437:VAL:CG2	1.69	1.02
11:I1:1543:LEU:CD1	11:I2:1677:LYS:HE2	1.89	1.02
11:I2:881:ILE:HG13	17:O3:250:LEU:HA	1.41	1.02
11:I2:894:VAL:H	17:O3:239:GLN:HG2	0.90	1.02
11:I2:951:LYS:HD2	16:N3:403:VAL:CA	1.64	1.02
11:I2:1014:ASN:CB	16:N3:413:VAL:O	2.06	1.02
11:I2:1607:GLN:O	12:J1:298:PHE:CD2	1.86	1.02
11:I3:1267:LEU:CD1	26:X1:497:ARG:NH1	2.21	1.02
17:O4:110:LEU:HB3	18:P4:321:ILE:HB	1.03	1.02
23:U1:434:THR:CG2	31:c2:479:ILE:HG22	1.74	1.02
23:U2:41:GLU:CB	31:c4:563:ARG:HH11	1.65	1.02
28:Z2:438:GLU:HB3	30:b2:314:PRO:CG	1.89	1.02
28:Z4:438:GLU:HB3	30:b4:314:PRO:CG	1.89	1.02
2:A2:224:PRO:HD2	6:D1:709:ARG:HH12	0.86	1.01
2:A2:1148:ARG:HH22	3:A5:169:TYR:CA	1.72	1.01
2:A2:1151:THR:O	3:A5:175:GLU:N	1.93	1.01
1:A3:1084:ARG:O	6:D3:797:GLY:CA	2.07	1.01
1:A3:1153:LEU:HD13	3:A6:592:ASP:CG	1.84	1.01
1:A3:1184:ASP:N	3:A6:642:ARG:CZ	2.20	1.01
1:A3:1225:PRO:CD	3:A6:548:LEU:CG	2.38	1.01
1:A3:1242:THR:CG2	3:A6:588:SER:N	2.23	1.01
2:A4:81:ALA:HA	3:A6:388:GLU:HB3	1.41	1.01
2:A4:543:GLY:O	3:A6:365:MET:N	1.83	1.01
2:A4:670:SER:CB	3:A6:542:LEU:CD2	2.35	1.01
2:A4:670:SER:CA	3:A6:542:LEU:HD21	1.89	1.01
2:A4:683:LEU:HB3	3:A6:403:ARG:CZ	1.89	1.01
2:A4:720:LEU:CA	3:A6:494:PRO:CA	2.27	1.01
2:A4:720:LEU:HD21	3:A6:499:ILE:HD11	1.41	1.01
2:A4:771:ILE:N	3:A6:477:PHE:HB3	1.75	1.01
2:A4:782:VAL:N	3:A6:524:ARG:HD2	1.73	1.01
2:A4:792:VAL:HG11	3:A6:248:VAL:HG12	1.03	1.01
2:A4:798:LYS:HB2	3:A6:264:GLU:OE2	1.60	1.01
2:A4:806:PHE:HB2	3:A6:382:SER:OG	1.28	1.01
2:A4:827:ILE:HA	2:A4:860:GLU:HA	1.04	1.01
2:A4:868:GLN:CD	6:D3:570:VAL:HG12	1.85	1.01
2:A4:868:GLN:HE21	6:D3:608:ILE:CD1	1.72	1.01
2:A4:904:GLN:HG3	3:A6:137:HIS:CE1	1.94	1.01
2:A4:987:LYS:HE2	6:D3:553:PHE:O	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1363:ASP:CB	28:Z2:871:HIS:O	1.99	1.01
3:A5:1373:GLY:O	28:Z2:814:THR:CB	2.06	1.01
5:C1:732:LYS:HE2	11:I1:1228:GLU:HG3	1.40	1.01
8:F1:1261:TYR:CD2	17:O2:259:ASP:C	2.28	1.01
8:F1:1262:HIS:CE1	17:O2:259:ASP:N	2.26	1.01
9:G1:253:SER:CB	15:M2:601:ASP:HB3	1.76	1.01
11:I1:841:PHE:HB3	15:M1:588:MET:CB	1.85	1.01
11:I1:881:ILE:HD11	17:O1:253:LEU:HD12	1.08	1.01
11:I1:886:LEU:HB2	17:O1:242:ARG:HA	1.39	1.01
11:I1:931:VAL:HG11	15:M1:604:ASN:OD1	1.57	1.01
11:I1:1021:ILE:CD1	16:N1:410:MET:CG	2.37	1.01
11:I1:1104:LEU:CD1	16:N1:433:GLU:HA	1.90	1.01
11:I2:900:ARG:HB2	17:O3:232:LYS:HD3	1.03	1.01
11:I2:987:GLY:N	15:M3:613:ASP:HB3	1.74	1.01
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD11	1.04	1.01
11:I2:1059:PRO:HB3	17:O3:273:ASP:C	1.83	1.01
11:I3:777:SER:HB2	29:a2:40[B]:GLU:HG3	1.42	1.01
11:I3:1277:LEU:HD12	26:X1:522:MET:HG3	1.39	1.01
11:I5:1282:PHE:CE2	29:a2:23[B]:PRO:HG2	1.95	1.01
17:O3:147:ALA:CB	18:P3:328:PRO:HB2	1.89	1.01
22:T1:720:ILE:HG21	31:c5:31:TYR:HE2	1.24	1.01
23:U1:138:ASN:O	31:c1:500:LYS:C	2.02	1.01
23:U1:172:LYS:HG2	31:c1:506:HIS:CA	1.89	1.01
23:U2:434:THR:O	31:c4:536:CYS:SG	2.18	1.01
23:U2:436:LEU:HD11	31:c4:540:HIS:CB	1.87	1.01
26:X2:191:ILE:HG22	34:i:443:THR:HG22	1.42	1.01
26:X2:308:ASN:H	34:i:405:TYR:CB	1.72	1.01
26:X2:333:GLU:CG	34:i:475:ILE:O	2.06	1.01
28:Z1:411:LEU:HD23	30:b1:251:ILE:CG2	1.90	1.01
28:Z2:554:PHE:CD1	30:b2:233:TRP:O	2.12	1.01
28:Z3:410:ASN:HD21	30:b3:252:ALA:CB	1.73	1.01
28:Z4:410:ASN:CA	30:b4:251:ILE:CD1	2.15	1.01
28:Z4:411:LEU:HD23	30:b4:251:ILE:CG2	1.90	1.01
32:g:390:MET:HE2	32:g:398:LEU:HD21	1.42	1.01
2:A2:1136:LYS:HG3	3:A5:138:LEU:HB3	1.05	1.01
1:A3:1121:LEU:O	3:A6:599:ARG:NH2	1.92	1.01
1:A3:1186:TRP:CD1	3:A6:640:LEU:N	2.28	1.01
1:A3:1188:ASN:O	3:A6:645:PHE:CG	2.13	1.01
1:A3:1189:LEU:HD13	3:A6:579:PHE:HE1	1.20	1.01
1:A3:1231:VAL:CG1	3:A6:617:VAL:CG2	2.38	1.01
1:A3:1244:LEU:HB3	3:A6:633:MET:HE1	1.34	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1278:PRO:HB3	3:A6:624:ASP:H	1.21	1.01
2:A4:227:SER:OG	6:D3:708:ASP:O	1.77	1.01
2:A4:537:ALA:HB2	3:A6:367:ASP:C	1.85	1.01
2:A4:713:ILE:H	3:A6:462:LEU:CD1	1.73	1.01
2:A4:760:LEU:HD21	3:A6:98:LEU:CA	1.89	1.01
2:A4:767:ILE:N	3:A6:470:ARG:HA	1.73	1.01
2:A4:776:MET:SD	3:A6:525:THR:CA	2.48	1.01
2:A4:826:ASN:ND2	3:A6:565:THR:CA	2.22	1.01
2:A4:976:LEU:CD2	6:D3:245:ARG:NH1	2.23	1.01
2:A4:986:THR:HG22	6:D3:504:LYS:HG3	1.37	1.01
3:A5:186:ILE:O	5:C2:746:PRO:CD	2.07	1.01
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB3	1.03	1.01
3:A6:442:ARG:HH22	6:D3:741:ILE:HA	0.89	1.01
6:D5:381:ASN:ND2	31:c1:311:ALA:HB1	1.74	1.01
6:D6:796:ALA:O	22:T3:768:ASN:CG	2.02	1.01
8:F1:1138:TRP:CD1	17:O2:244:GLU:HG2	1.64	1.01
11:I1:888:GLU:HB2	17:O1:242:ARG:NH1	1.76	1.01
11:I1:947:LEU:HA	16:N1:407:ALA:HB1	1.11	1.01
11:I1:947:LEU:HB2	17:O1:256:TYR:CZ	1.94	1.01
11:I1:1020:ALA:CA	16:N1:405:ALA:O	0.72	1.01
11:I1:1543:LEU:O	12:J2:300:ILE:CG2	2.08	1.01
11:I2:925:LEU:CD1	20:R3:156:GLY:HA2	1.89	1.01
11:I2:966:TRP:CZ3	20:R3:167:GLN:HB3	1.95	1.01
11:I2:983:LEU:HD23	15:M3:617:THR:HB	1.04	1.01
11:I2:1040:HIS:HB3	15:M3:619:ILE:HG21	1.37	1.01
11:I2:1043:LEU:N	15:M3:616:LEU:CD1	2.22	1.01
11:I5:1279:THR:OG1	26:X2:520:GLU:HA	1.57	1.01
17:O3:158:GLU:HG3	18:P3:316:LEU:CA	1.90	1.01
22:T1:736:LEU:HD11	31:c5:28:LYS:HE3	1.05	1.01
23:U2:26:GLN:HA	31:c4:491:VAL:N	1.72	1.01
23:U2:433:ALA:C	31:c4:540:HIS:HE2	1.66	1.01
23:U2:434:THR:HG21	31:c4:532:TRP:CH2	1.95	1.01
26:X2:208:LEU:CD2	34:i:445:GLN:HA	1.90	1.01
28:Z2:554:PHE:CD1	30:b2:232:PRO:CG	2.42	1.01
28:Z3:438:GLU:HB3	30:b3:314:PRO:HG2	1.42	1.01
28:Z3:554:PHE:CD1	30:b3:232:PRO:CG	2.42	1.01
1:A3:1196:GLU:CA	3:A6:608:VAL:HG12	1.89	1.01
1:A3:1244:LEU:CD2	3:A6:633:MET:CE	2.36	1.01
1:A3:1244:LEU:HA	3:A6:633:MET:HE1	1.39	1.01
1:A3:1392:ARG:NE	3:A6:231:SER:HB2	1.75	1.01
2:A4:540:GLN:C	3:A6:363:ALA:HB3	1.84	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:635:ARG:HH22	3:A6:600:LYS:C	1.63	1.01
2:A4:679:TYR:CD2	3:A6:510:TYR:HD1	1.78	1.01
2:A4:689:LYS:HD2	3:A6:336:ILE:CG1	1.91	1.01
2:A4:801:THR:CB	3:A6:381:LEU:HG	1.88	1.01
2:A4:868:GLN:NE2	6:D3:608:ILE:HB	1.74	1.01
2:A4:897:ASN:O	3:A6:176:LEU:HB3	1.60	1.01
2:A4:950:ASP:OD2	4:B6:348:PRO:C	2.03	1.01
2:A4:973:GLU:CA	6:D3:205:LEU:CB	2.39	1.01
2:A4:977:VAL:HA	6:D3:492:VAL:CG1	1.91	1.01
3:A5:1024:ASP:CB	11:I5:94:GLU:O	2.09	1.01
3:A5:1368:GLN:NE2	28:Z2:840:PHE:CB	2.22	1.01
8:F1:1266:MET:HE2	17:O2:262:ASP:OD1	1.59	1.01
9:G1:252:LEU:HD22	17:O2:254:ARG:HD3	1.42	1.01
11:I1:879:VAL:O	17:O1:247:TRP:N	1.92	1.01
11:I1:920:PHE:CE1	17:O1:247:TRP:CD1	2.49	1.01
11:I1:976:ARG:N	20:R1:149:ARG:HG2	1.75	1.01
11:I1:976:ARG:HH22	15:M1:622:VAL:HG11	1.08	1.01
11:I1:1066:LEU:CB	16:N1:430:ARG:HB3	1.90	1.01
11:I2:833:PHE:C	17:O3:241:SER:CB	2.33	1.01
11:I2:874:LEU:O	17:O3:251:ILE:O	1.79	1.01
11:I2:984:GLU:CD	15:M3:615:PRO:HA	1.83	1.01
11:I2:1048:GLU:O	17:O3:287:LEU:CG	2.07	1.01
11:I2:1607:GLN:O	12:J1:298:PHE:CD1	1.92	1.01
17:O4:106:HIS:O	18:P4:318:PRO:CD	2.08	1.01
17:O4:107:THR:HA	18:P4:318:PRO:HG3	1.37	1.01
21:S1:679:ILE:C	21:S2:1071:LEU:HD22	1.66	1.01
23:U1:140:PRO:CB	31:c1:502:LYS:N	2.11	1.01
23:U1:397:ASP:OD1	31:c2:548:VAL:O	1.78	1.01
23:U2:360:HIS:HB2	31:c4:544:VAL:HG13	1.39	1.01
23:U2:394:ILE:HG23	31:c4:535:VAL:CG2	1.78	1.01
23:U2:407:VAL:O	31:c4:542:LYS:HG2	1.59	1.01
23:U2:432:TYR:CA	31:c4:539:ILE:CG2	2.37	1.01
23:U3:278:GLN:CG	25:W4:189:SER:CB	2.31	1.01
26:X2:308:ASN:N	34:i:405:TYR:HB3	1.75	1.01
28:Z1:410:ASN:C	30:b1:251:ILE:HD13	1.79	1.01
28:Z1:526:ARG:HB2	30:b1:206:ASN:OD1	1.61	1.01
28:Z1:534:ASP:CA	30:b1:164:CYS:HB2	1.90	1.01
28:Z2:411:LEU:HD23	30:b2:251:ILE:CG2	1.90	1.01
28:Z2:534:ASP:CA	30:b2:164:CYS:HB2	1.90	1.01
28:Z4:438:GLU:HB3	30:b4:314:PRO:HG2	1.42	1.01
28:Z4:525:LEU:C	30:b4:208:ASN:ND2	2.17	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:989:MSE:CE	6:D1:241:ALA:H	1.71	1.01
1:A3:1117:ILE:CD1	3:A6:591:ASP:C	2.28	1.01
1:A3:1233:GLN:O	3:A6:601:PHE:CZ	2.13	1.01
1:A3:1325:MET:HG2	3:A6:126:ARG:HH21	1.22	1.01
2:A4:671:SER:O	3:A6:100:SER:HB3	0.84	1.01
2:A4:673:HIS:CE1	3:A6:388:GLU:O	2.14	1.01
2:A4:777:LEU:HG	3:A6:526:ILE:HA	1.14	1.01
2:A4:791:ALA:C	3:A6:247:ASP:OD1	2.04	1.01
2:A4:978:ASP:HB3	6:D3:476:VAL:HG23	1.38	1.01
3:A5:1098:ARG:CD	11:I5:29:GLN:NE2	2.22	1.01
3:A5:1414:PHE:CD1	28:Z2:960:CYS:CB	2.43	1.01
3:A6:446:LEU:HD23	6:D3:730:ARG:HG2	1.41	1.01
8:F1:1137:GLN:HA	17:O2:248:SER:OG	1.38	1.01
11:I1:841:PHE:CD2	17:O1:243:LEU:HD12	1.90	1.01
11:I1:898:VAL:CG1	17:O1:235:ASN:O	2.09	1.01
11:I1:947:LEU:CA	16:N1:407:ALA:HB3	1.82	1.01
11:I1:1546:TRP:HB3	12:J2:300:ILE:HD13	1.03	1.01
11:I2:881:ILE:CB	17:O3:249:ARG:HG2	1.88	1.01
11:I2:887:GLN:C	16:N3:393:ILE:CG2	2.09	1.01
11:I2:956:ILE:C	20:R3:166:LEU:HD13	1.85	1.01
11:I2:966:TRP:CE3	20:R3:167:GLN:NE2	2.28	1.01
11:I2:1039:ALA:HB3	20:R3:170:LEU:CG	1.57	1.01
11:I2:1061:ASP:HB2	17:O3:278:GLU:CB	1.90	1.01
11:I5:1280:PRO:HG3	26:X2:523:LEU:HD12	1.40	1.01
17:O4:110:LEU:H	18:P4:318:PRO:HB3	1.23	1.01
22:T1:720:ILE:CB	31:c5:31:TYR:CZ	2.44	1.01
22:T1:816:LYS:HE2	31:c5:85:ARG:CZ	1.90	1.01
23:U1:38:ILE:HA	31:c2:473:THR:CG2	1.89	1.01
23:U2:413:ILE:HB	31:c4:540:HIS:C	1.82	1.01
26:X2:321:ALA:CA	34:i:84:ARG:HE	1.73	1.01
26:X2:329:ARG:CD	34:i:476:LEU:CD1	2.39	1.01
26:X2:363:TYR:C	34:i:418:LEU:O	2.02	1.01
26:X2:366:PRO:O	34:i:366:PHE:CG	2.14	1.01
28:Z2:526:ARG:HB2	30:b2:206:ASN:OD1	1.61	1.01
28:Z3:525:LEU:C	30:b3:208:ASN:ND2	2.17	1.01
1:A1:870:HIS:ND1	6:D3:279:HIS:ND1	2.03	1.01
2:A2:969:ASP:O	6:D1:192:TYR:O	1.78	1.01
1:A3:1098:ARG:CB	11:I2:1414:CYS:SG	2.49	1.01
1:A3:1168:LEU:N	3:A6:594:LEU:HD22	1.74	1.01
1:A3:1242:THR:HG23	3:A6:587:VAL:C	1.52	1.01
1:A3:1249:PHE:HE1	3:A6:584:GLY:CA	1.67	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1260:ALA:HB2	3:A6:719:ARG:NH2	1.59	1.01
1:A3:1269:ALA:O	3:A6:554:GLN:HB3	1.60	1.01
2:A4:90:GLN:HB3	3:A6:428:GLN:CB	1.82	1.01
2:A4:611:ILE:CG2	3:A6:508:LEU:CB	2.01	1.01
2:A4:648:TYR:O	3:A6:505:ALA:N	1.92	1.01
2:A4:684:VAL:CG2	3:A6:395:MET:HG3	1.90	1.01
2:A4:713:ILE:H	3:A6:462:LEU:HD11	1.01	1.01
2:A4:717:VAL:HG21	3:A6:476:PHE:CB	1.89	1.01
2:A4:824:ASN:O	3:A6:138:LEU:HG	1.59	1.01
2:A4:859:GLN:HE21	3:A6:176:LEU:CD2	1.72	1.01
2:A4:864:ARG:HB2	6:D3:607:PRO:HD2	1.01	1.01
2:A4:977:VAL:HA	6:D3:492:VAL:HG12	1.39	1.01
3:A5:232:LEU:CD2	5:C2:736:ASN:O	2.09	1.01
3:A5:996:ASN:HB2	11:I5:56:ARG:C	1.52	1.01
3:A5:1026:PRO:O	11:I5:67:LYS:CA	2.08	1.01
3:A5:1399:ARG:HH11	28:Z2:909:LEU:HA	0.88	1.01
3:A6:444:ARG:C	6:D3:719:LEU:HA	1.84	1.01
3:A6:1399:ARG:NH2	28:Z4:968:ARG:N	2.08	1.01
6:D5:783:SER:CB	31:c4:305:SER:HA	1.91	1.01
11:I1:884:LEU:HD12	16:N1:400:LEU:HD11	1.41	1.01
11:I1:924:ILE:HG13	15:M1:596:ILE:HG13	1.20	1.01
11:I1:1017:VAL:HA	16:N1:407:ALA:O	1.60	1.01
11:I1:1109:LEU:HD12	17:O1:290:TYR:OH	1.61	1.01
11:I2:890:TYR:N	17:O3:242:ARG:HG3	1.76	1.01
11:I2:950:LEU:CG	15:M3:606:LEU:HD21	1.73	1.01
11:I2:977:ASN:HB3	20:R3:147:LEU:HA	1.05	1.01
11:I2:1048:GLU:O	17:O3:287:LEU:CD2	2.08	1.01
11:I2:1049:LEU:HG	17:O3:291:ASP:CB	1.90	1.01
23:U1:438:GLU:CG	31:c2:541:ARG:HE	1.73	1.01
23:U2:399:ILE:CD1	31:c4:553:LEU:O	2.08	1.01
26:X2:192:LEU:HD11	34:i:442:SER:C	1.86	1.01
26:X2:283:ASP:O	34:i:492:TRP:O	1.78	1.01
26:X2:294:GLN:OE1	34:i:452:ILE:HG12	1.61	1.01
28:Z2:524:VAL:HG11	30:b2:236:THR:O	1.61	1.01
28:Z4:522:ASN:H	30:b4:241:PRO:HG2	1.23	1.01
1:A1:874:VAL:CG1	6:D3:272:VAL:HB	1.92	1.00
2:A2:781:ARG:NE	6:D1:673:ARG:CB	2.24	1.00
2:A2:825:ARG:NH1	6:D1:633:LYS:HD2	1.76	1.00
2:A2:1131:ILE:N	3:A5:141:GLY:N	1.76	1.00
2:A2:1137:ALA:HB3	3:A5:564:ASN:CB	1.78	1.00
2:A2:1139:ILE:HG21	3:A5:135:PHE:N	1.75	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1169:LEU:H	3:A6:594:LEU:HB2	1.24	1.00
1:A3:1241:ARG:HB2	3:A6:586:CYS:SG	2.00	1.00
1:A3:1267:GLN:OE1	3:A6:551:GLN:CA	2.08	1.00
1:A3:1274:ASP:HB2	3:A6:556:PRO:O	0.83	1.00
1:A3:1321:MET:CE	3:A6:571:ARG:HH21	1.52	1.00
2:A4:670:SER:N	3:A6:542:LEU:HD21	1.75	1.00
2:A4:676:LEU:CD1	3:A6:95:TYR:CE2	2.44	1.00
2:A4:691:LYS:HB3	3:A6:316:ARG:NH2	1.75	1.00
2:A4:771:ILE:CD1	3:A6:476:PHE:CE1	2.44	1.00
2:A4:780:GLU:CA	6:D3:679:ILE:HD11	1.80	1.00
2:A4:822:ILE:HG22	3:A6:526:ILE:HD11	1.40	1.00
2:A4:824:ASN:C	3:A6:138:LEU:HD11	1.84	1.00
3:A5:1360:GLY:C	28:Z2:875:LEU:CB	2.31	1.00
6:D6:800:PRO:HG3	22:T3:765:LYS:HG2	1.42	1.00
11:I1:919:ALA:HB1	16:N1:389:PHE:O	1.55	1.00
11:I1:927:HIS:NE2	15:M1:594:LYS:HG3	1.76	1.00
11:I1:1026:TYR:CD1	20:R1:175:GLN:OE1	2.13	1.00
11:I2:834:SER:HB3	17:O3:237:PRO:C	1.86	1.00
11:I2:942:HIS:N	17:O3:259:ASP:O	1.94	1.00
11:I2:954:GLU:N	16:N3:403:VAL:HG22	1.75	1.00
11:I2:965:ALA:HB1	20:R3:153:GLN:O	1.59	1.00
11:I2:966:TRP:O	20:R3:150:ASN:C	2.03	1.00
11:I2:981:VAL:N	20:R3:147:LEU:CG	2.23	1.00
11:I2:1020:ALA:HB3	16:N3:410:MET:H	0.86	1.00
11:I3:1277:LEU:CG	26:X1:522:MET:CG	2.16	1.00
18:P1:277:PRO:CB	18:P4:323:GLN:H	1.72	1.00
22:T1:819:ASN:CG	31:c5:57:GLU:CD	2.29	1.00
22:T1:826:GLY:HA3	31:c5:23:ARG:NH1	1.76	1.00
24:V1:380:PHE:N	31:c1:31:TYR:OH	1.72	1.00
28:Z1:410:ASN:CA	30:b1:251:ILE:CD1	2.15	1.00
28:Z2:522:ASN:CG	30:b2:241:PRO:CB	2.34	1.00
28:Z3:522:ASN:H	30:b3:241:PRO:HG2	1.23	1.00
2:A2:876:ARG:CD	6:D1:558:LYS:HG2	1.92	1.00
2:A2:1148:ARG:HB3	3:A5:174:PRO:HD3	1.43	1.00
1:A3:1048:ARG:CZ	6:D3:790:ARG:HH22	1.73	1.00
1:A3:1201:ARG:CB	3:A6:546:ASN:ND2	2.15	1.00
1:A3:1204:TRP:HB3	2:A4:731:ILE:HG23	1.39	1.00
1:A3:1221:ILE:CD1	2:A4:641:ALA:O	2.08	1.00
1:A3:1236:GLN:N	3:A6:581:LYS:CA	2.16	1.00
1:A3:1248:ILE:CD1	3:A6:640:LEU:HD12	1.90	1.00
2:A4:90:GLN:NE2	3:A6:427:MET:HA	1.69	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ3	1.27	1.00
2:A4:951:GLU:OE2	3:A6:233:THR:C	2.04	1.00
2:A4:970:PHE:HA	6:D3:192:TYR:OH	1.60	1.00
2:A4:975:GLU:CB	6:D3:501:LEU:CG	2.13	1.00
2:A4:978:ASP:HB3	6:D3:476:VAL:HG22	1.44	1.00
3:A5:1369:ILE:CD1	28:Z2:833:ASP:H	1.73	1.00
3:A6:1364:GLN:NE2	28:Z4:879:PHE:O	1.93	1.00
6:D6:800:PRO:HG3	22:T3:765:LYS:HG3	1.12	1.00
11:I1:846:ILE:HD11	15:M1:594:LYS:HE3	1.37	1.00
11:I1:917:TYR:CZ	15:M1:586:ASP:O	2.15	1.00
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD1	2.25	1.00
11:I2:921:GLU:C	15:M3:593:ALA:HA	1.83	1.00
11:I2:1072:ASN:N	16:N3:429:GLU:OE1	1.92	1.00
11:I2:1109:LEU:CB	16:N3:438:LEU:HA	1.83	1.00
11:I2:1113:LEU:HD21	17:O3:282:LYS:CE	1.91	1.00
11:I3:1267:LEU:HD12	26:X1:529:TRP:HA	1.40	1.00
15:M1:507:GLN:OE1	18:P1:318:PRO:HG2	1.53	1.00
18:P2:319:VAL:CG2	18:P3:278:ASN:CG	2.21	1.00
21:S3:596:ILE:CB	21:S4:1155:GLN:HG3	1.89	1.00
23:U2:15:PHE:CD2	31:c4:477:GLU:HB2	1.97	1.00
23:U2:83:VAL:CA	31:c4:557:HIS:HE1	1.51	1.00
23:U2:431:ILE:CA	31:c4:464:LEU:HB3	1.90	1.00
26:X2:362:LEU:CD2	34:i:446:LYS:O	2.08	1.00
28:Z1:535:ILE:HG12	30:b1:182:PRO:HB3	1.39	1.00
28:Z2:555:LYS:HG2	30:b2:213:ASP:H	1.24	1.00
28:Z3:410:ASN:CA	30:b3:251:ILE:CD1	2.15	1.00
1:A1:1221:ILE:CD1	2:A2:618:ALA:CB	2.40	1.00
2:A2:970:PHE:CA	6:D1:196:ILE:HD11	1.91	1.00
2:A2:1125:LEU:HB3	3:A5:134:VAL:C	1.86	1.00
1:A3:1163:TYR:C	3:A6:648:TYR:CE2	2.18	1.00
1:A3:1188:ASN:HD22	3:A6:646:ILE:HG13	1.25	1.00
1:A3:1242:THR:CG2	3:A6:588:SER:H	1.73	1.00
1:A3:1389:SER:HB3	3:A6:224:PRO:HB3	1.42	1.00
2:A4:79:ALA:HB1	3:A6:321:ASP:OD1	1.61	1.00
2:A4:676:LEU:HD11	3:A6:95:TYR:OH	1.61	1.00
2:A4:689:LYS:HB3	3:A6:336:ILE:HD11	1.43	1.00
2:A4:720:LEU:CD2	3:A6:495:ASP:N	2.23	1.00
2:A4:771:ILE:H	3:A6:477:PHE:HB2	1.11	1.00
2:A4:799:ASP:OD1	3:A6:250:PHE:CZ	2.15	1.00
2:A4:806:PHE:CD2	3:A6:395:MET:CE	2.44	1.00
2:A4:854:VAL:HG12	3:A6:174:PRO:CA	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:863:GLN:N	3:A6:132:ASP:C	2.01	1.00
2:A4:975:GLU:O	6:D3:501:LEU:HB2	1.62	1.00
3:A5:1027:HIS:CG	11:I5:65:LYS:O	2.15	1.00
8:F1:1091:SER:OG	17:O2:237:PRO:O	1.77	1.00
11:I1:841:PHE:CZ	17:O1:243:LEU:CD1	2.43	1.00
11:I1:931:VAL:HG22	15:M1:604:ASN:H	1.21	1.00
11:I1:947:LEU:HD13	17:O1:256:TYR:CE2	1.97	1.00
11:I1:950:LEU:HB3	16:N1:407:ALA:N	1.71	1.00
11:I1:1104:LEU:CD2	16:N1:433:GLU:HG3	1.91	1.00
11:I2:883:ALA:HB3	17:O3:246:LEU:HB3	1.43	1.00
11:I2:884:LEU:CD1	15:M3:599:ILE:CD1	2.40	1.00
11:I2:950:LEU:HD21	16:N3:410:MET:SD	2.01	1.00
11:I2:956:ILE:O	20:R3:166:LEU:CG	2.09	1.00
11:I2:983:LEU:O	15:M3:612:PRO:C	2.03	1.00
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD1	2.08	1.00
11:I4:812:ASN:O	26:X3:497:ARG:CB	2.09	1.00
11:I4:1277:LEU:HD23	26:X3:517:ASP:HB2	1.39	1.00
17:O3:155:VAL:HG21	18:P3:321:ILE:HG21	1.01	1.00
21:S1:671:ALA:H	21:S2:1146:ALA:HA	1.27	1.00
23:U1:19:LEU:N	31:c2:470:ARG:HB3	1.75	1.00
23:U1:398:ILE:N	31:c2:552:ARG:NH2	1.98	1.00
23:U1:398:ILE:HB	31:c2:556:GLN:OE1	1.61	1.00
23:U2:39:ILE:HA	31:c4:474:ASN:O	1.61	1.00
23:U2:78:VAL:CG1	31:c4:553:LEU:CD1	2.24	1.00
23:U2:430:PRO:HB2	31:c4:458:LYS:HA	1.02	1.00
23:U2:436:LEU:C	31:c4:428:ARG:HH21	1.68	1.00
24:V1:378:SER:HB2	31:c1:30:PHE:CZ	1.95	1.00
26:X2:196:ASP:CB	34:i:364:TYR:CD2	2.40	1.00
26:X2:299:SER:HB3	34:i:333:LEU:HB2	1.41	1.00
26:X2:360:PHE:HB3	34:i:423:LYS:CG	1.90	1.00
28:Z1:531:LYS:NZ	30:b1:166:LEU:HB3	1.76	1.00
28:Z2:526:ARG:N	30:b2:208:ASN:CG	2.20	1.00
28:Z2:531:LYS:NZ	30:b2:166:LEU:HB3	1.76	1.00
28:Z3:411:LEU:HD23	30:b3:251:ILE:CG2	1.90	1.00
28:Z4:557:CYS:CB	30:b4:210:ARG:NH1	2.04	1.00
2:A2:227:SER:N	6:D1:708:ASP:O	1.95	1.00
1:A3:1186:TRP:HA	3:A6:641:ALA:N	1.76	1.00
1:A3:1226:LEU:CD2	3:A6:546:ASN:O	2.09	1.00
2:A4:85:VAL:CG1	3:A6:405:PHE:CD1	2.44	1.00
2:A4:672:ARG:CB	3:A6:96:PRO:CG	1.81	1.00
3:A6:441:THR:CG2	6:D3:717:LEU:HA	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1403:MSE:HE1	28:Z4:964:LEU:HA	1.01	1.00
3:A6:1411:ARG:HG2	26:X4:690:THR:H	1.25	1.00
6:D5:240:ASP:HB3	31:c3:470:ARG:HH21	1.26	1.00
11:I1:1108:PRO:CG	16:N1:443:GLU:CA	2.08	1.00
11:I1:1611:PHE:CB	11:I2:1672:VAL:HG22	1.92	1.00
11:I2:920:PHE:HA	15:M3:592:LEU:CA	1.88	1.00
11:I2:921:GLU:C	15:M3:592:LEU:C	2.30	1.00
22:T1:736:LEU:N	31:c5:18:SER:C	2.19	1.00
23:U1:23:LYS:HB2	31:c2:478:SER:OG	1.60	1.00
23:U2:40:ARG:CB	31:c4:560:ASN:OD1	2.02	1.00
23:U2:82:LEU:N	31:c4:553:LEU:HD21	1.57	1.00
28:Z4:526:ARG:N	30:b4:208:ASN:CG	2.20	1.00
1:A1:1224:PRO:HD2	2:A2:734:LEU:HD22	1.40	1.00
1:A3:1332:ARG:NH2	6:D3:681:ALA:HB1	1.75	1.00
2:A4:680:LEU:HD21	3:A6:470:ARG:NH2	1.74	1.00
2:A4:768:SER:H	3:A6:475:TYR:C	1.70	1.00
2:A4:861:GLN:NE2	6:D3:607:PRO:CB	2.24	1.00
2:A4:897:ASN:CA	3:A6:165:PHE:CA	2.39	1.00
3:A5:1369:ILE:HG23	28:Z2:831:LEU:H	1.27	1.00
11:I2:980:ILE:HB	15:M3:618:GLN:HA	1.08	1.00
11:I3:1271:GLU:CA	26:X1:525:ILE:HG22	1.91	1.00
21:S1:654:LYS:O	21:S2:1154:GLY:C	2.05	1.00
23:U1:135:ARG:HH22	31:c1:639:GLN:HG3	1.19	1.00
23:U2:410:SER:C	31:c4:540:HIS:O	2.04	1.00
28:Z1:522:ASN:CG	30:b1:241:PRO:CB	2.34	1.00
28:Z4:530:LYS:HE2	30:b4:164:CYS:SG	2.02	1.00
28:Z4:531:LYS:NZ	30:b4:166:LEU:HB3	1.76	1.00
28:Z4:557:CYS:HB3	30:b4:210:ARG:NH1	1.50	1.00
2:A4:540:GLN:N	3:A6:359:LEU:C	2.20	1.00
2:A4:543:GLY:C	3:A6:362:PHE:C	2.29	1.00
2:A4:572:ARG:O	3:A6:454:GLN:HG3	1.61	1.00
2:A4:720:LEU:HB2	3:A6:512:GLU:CG	1.90	1.00
2:A4:826:ASN:ND2	3:A6:565:THR:CG2	2.23	1.00
2:A4:872:ALA:O	6:D3:565:MET:HA	1.21	1.00
3:A6:1411:ARG:CG	26:X4:690:THR:H	1.67	1.00
9:G1:270:ARG:HB2	16:N2:413:VAL:C	1.85	1.00
11:I1:837:MET:HE1	17:O1:242:ARG:C	1.86	1.00
11:I1:883:ALA:CB	17:O1:243:LEU:CA	2.39	1.00
11:I1:945:LEU:CD2	17:O1:258:GLU:CA	2.40	1.00
11:I1:977:ASN:ND2	15:M1:621:ARG:O	1.95	1.00
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD21	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1114:VAL:HG13	16:N1:432:TYR:CG	1.96	1.00
11:I2:1109:LEU:HD22	17:O3:290:TYR:HD2	1.19	1.00
23:U2:392:LEU:HD21	31:c4:549:ALA:CA	1.91	1.00
26:X2:197:VAL:HG11	34:i:366:PHE:HE2	1.22	1.00
26:X2:368:LEU:CA	34:i:441:LEU:HD22	1.92	1.00
28:Z2:530:LYS:HE2	30:b2:164:CYS:SG	2.02	1.00
28:Z3:522:ASN:CG	30:b3:241:PRO:CB	2.34	1.00
1:A1:1402:ASP:H	2:A2:884:ARG:NH1	1.60	1.00
2:A2:1094:ILE:CD1	6:D2:759:GLN:CD	2.33	1.00
2:A2:1132:PRO:HD3	3:A5:160:ILE:CG2	1.92	1.00
2:A2:1157:TYR:HD1	3:A5:134:VAL:CG2	1.72	1.00
1:A3:1191:ASN:ND2	3:A6:723:PHE:CD2	2.30	1.00
2:A4:80:LYS:HG3	3:A6:323:THR:CG2	1.90	1.00
2:A4:703:SER:N	3:A6:399:ASP:HA	1.72	1.00
2:A4:855:THR:HG22	3:A6:168:ASP:O	1.58	1.00
3:A5:1369:ILE:HD11	28:Z2:833:ASP:N	1.76	1.00
3:A5:1392:ARG:CG	28:Z2:866:GLU:C	2.35	1.00
3:A6:1367:THR:CG2	28:Z4:872:TYR:O	2.09	1.00
11:I1:828:VAL:O	17:O1:237:PRO:HG2	1.62	1.00
11:I1:947:LEU:N	16:N1:407:ALA:HB1	1.77	1.00
11:I2:1052:LEU:HD22	16:N3:438:LEU:CG	1.90	1.00
11:I2:1109:LEU:HG	16:N3:438:LEU:HD23	1.41	1.00
11:I3:1273:GLU:HG2	26:X1:535:ALA:HB2	1.02	1.00
23:U2:386:LEU:HD11	31:c4:541:ARG:HH12	1.24	1.00
26:X2:204:PHE:HD2	34:i:445:GLN:O	1.44	1.00
26:X2:291:LEU:CA	34:i:415:SER:OG	1.87	1.00
28:Z1:528:ILE:N	30:b1:208:ASN:ND2	2.05	1.00
28:Z3:530:LYS:HE2	30:b3:164:CYS:SG	2.02	1.00
2:A2:867:GLU:CG	6:D1:593:ARG:HH21	1.74	0.99
1:A3:1056:PHE:HD2	6:D3:805:GLY:O	1.45	0.99
1:A3:1237:LEU:CB	3:A6:582:ALA:CB	1.86	0.99
2:A4:647:GLU:HB2	3:A6:503:GLN:CG	1.91	0.99
2:A4:788:ARG:CA	3:A6:144:PHE:HA	1.83	0.99
2:A4:852:ASP:HB2	3:A6:154:GLY:O	0.83	0.99
4:B5:344:ALA:HB2	5:C2:740:ARG:HH22	1.22	0.99
8:F1:1093:LEU:CG	17:O2:241:SER:HA	1.92	0.99
8:F1:1264:ARG:CD	17:O2:263:GLN:O	2.10	0.99
9:G2:255:LEU:HA	17:O4:262:ASP:CG	1.87	0.99
11:I1:924:ILE:HG13	15:M1:596:ILE:CG1	1.68	0.99
11:I1:952:LEU:HA	16:N1:400:LEU:HD23	1.12	0.99
11:I2:980:ILE:HD11	20:R3:147:LEU:HA	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1038:ILE:CD1	15:M3:621:ARG:HG3	1.91	0.99
17:O4:109:PRO:O	18:P4:322:LYS:NZ	1.93	0.99
17:O4:111:TYR:CD1	18:P4:325:ILE:HD11	1.96	0.99
23:U2:83:VAL:HG22	31:c4:557:HIS:ND1	1.76	0.99
23:U2:394:ILE:O	31:c4:555:VAL:CG2	2.01	0.99
23:U2:431:ILE:HB	31:c4:464:LEU:HB3	1.05	0.99
2:A2:873:PRO:HD3	6:D1:568:ARG:NE	1.78	0.99
2:A2:1136:LYS:HG2	3:A5:138:LEU:HB2	1.39	0.99
1:A3:1167:CYS:HB3	3:A6:643:ALA:HB1	1.39	0.99
1:A3:1248:ILE:HD11	3:A6:587:VAL:CB	1.81	0.99
2:A4:623:SER:N	3:A6:453:SER:HB3	1.71	0.99
2:A4:954:ILE:HG13	4:B6:346:LEU:N	1.78	0.99
2:A4:969:ASP:O	6:D3:192:TYR:CE2	2.15	0.99
2:A4:978:ASP:C	6:D3:475:ALA:HB3	1.86	0.99
3:A5:1374:ALA:HB1	28:Z2:823:ALA:CB	1.62	0.99
3:A6:1411:ARG:HH11	26:X4:689:ALA:CB	1.55	0.99
11:I1:880:MET:HB3	17:O1:250:LEU:HB2	1.44	0.99
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD11	1.41	0.99
11:I2:899:LEU:CD2	17:O3:231:ASP:OD1	2.10	0.99
11:I2:1058:GLY:CA	17:O3:277:GLU:N	2.15	0.99
23:U1:402:GLY:HA2	31:c2:547:ASN:C	1.86	0.99
23:U1:431:ILE:CG1	31:c2:469:SER:CA	2.39	0.99
26:X2:283:ASP:C	34:i:479:THR:CA	2.35	0.99
26:X2:303:PHE:HA	34:i:416:VAL:HG12	1.43	0.99
26:X2:317:PHE:CB	34:i:400:LYS:NZ	2.01	0.99
28:Z1:524:VAL:HG11	30:b1:236:THR:O	1.61	0.99
28:Z2:522:ASN:H	30:b2:241:PRO:HG2	1.23	0.99
28:Z4:534:ASP:CA	30:b4:164:CYS:HB2	1.90	0.99
1:A3:1167:CYS:HB2	3:A6:643:ALA:HB1	1.42	0.99
2:A4:76:PRO:HD3	3:A6:322:ASP:HB2	1.39	0.99
2:A4:682:ARG:NE	3:A6:105:GLY:C	2.19	0.99
2:A4:757:LEU:CD1	3:A6:543:GLY:H	1.74	0.99
2:A4:757:LEU:HD22	3:A6:95:TYR:CD2	1.82	0.99
2:A4:866:SER:OG	3:A6:136:GLU:CD	2.05	0.99
3:A5:1027:HIS:ND1	11:I5:65:LYS:CB	2.21	0.99
3:A5:1374:ALA:O	28:Z2:814:THR:O	1.79	0.99
11:I2:963:LEU:CA	20:R3:165:SER:OG	2.10	0.99
11:I2:991:THR:H	15:M3:611:LYS:HB2	1.25	0.99
11:I2:1054:ILE:CA	17:O3:281:ALA:N	2.24	0.99
11:I5:1279:THR:CG2	26:X2:520:GLU:CB	2.17	0.99
17:O4:110:LEU:N	18:P4:318:PRO:HB3	1.76	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:741:ASP:OD2	31:c5:24:GLN:CB	2.08	0.99
22:T1:824:VAL:HG23	31:c5:55:VAL:HA	1.41	0.99
23:U1:23:LYS:HD2	31:c2:480:CYS:N	1.76	0.99
23:U2:23:LYS:HG3	31:c4:532:TRP:CZ3	1.97	0.99
23:U2:25:GLU:O	31:c4:490:GLY:CA	2.10	0.99
23:U2:75:TRP:CG	31:c4:475:ALA:HB2	1.98	0.99
26:X2:365:ILE:HG13	34:i:421:ILE:HG22	1.45	0.99
26:X2:367:SER:O	34:i:441:LEU:HD22	1.59	0.99
28:Z1:555:LYS:HG2	30:b1:213:ASP:H	1.24	0.99
28:Z3:526:ARG:N	30:b3:208:ASN:CG	2.20	0.99
28:Z3:534:ASP:CA	30:b3:164:CYS:HB2	1.90	0.99
28:Z3:535:ILE:HG12	30:b3:182:PRO:HB3	1.39	0.99
28:Z3:554:PHE:CE1	30:b3:232:PRO:HG2	1.98	0.99
28:Z4:554:PHE:CE1	30:b4:232:PRO:HG2	1.98	0.99
28:Z4:639:LEU:HA	30:b4:232:PRO:HG3	1.44	0.99
1:A3:1166:LEU:C	3:A6:594:LEU:CD2	2.35	0.99
1:A3:1227:PRO:HD2	3:A6:551:GLN:H	1.26	0.99
1:A3:1241:ARG:HH22	3:A6:596:ARG:CB	1.74	0.99
2:A4:691:LYS:HG3	3:A6:316:ARG:CD	1.72	0.99
2:A4:702:SER:O	3:A6:399:ASP:HB2	0.82	0.99
2:A4:762:LYS:NZ	3:A6:533:ALA:O	1.95	0.99
2:A4:864:ARG:CB	6:D3:607:PRO:CD	2.39	0.99
2:A4:874:VAL:O	6:D3:567:LEU:CB	2.09	0.99
2:A4:948:ALA:N	3:A6:235:TYR:HE1	1.38	0.99
2:A4:982:THR:CA	6:D3:502:LEU:HD22	1.87	0.99
3:A5:996:ASN:C	11:I5:61:LYS:N	2.14	0.99
8:F1:1261:TYR:CD2	17:O2:259:ASP:O	2.15	0.99
8:F2:1049:GLN:HE21	17:O4:237:PRO:HB3	1.20	0.99
9:G1:252:LEU:CA	15:M2:602:MET:SD	2.50	0.99
9:G1:253:SER:HB2	15:M2:605:THR:HG23	1.40	0.99
11:I1:990:GLU:HG2	17:O1:275:LEU:HD23	1.00	0.99
11:I1:1041:GLN:HB2	15:M1:620:VAL:HG23	1.42	0.99
11:I1:1051:LYS:N	17:O1:287:LEU:HA	1.31	0.99
11:I1:1056:PRO:C	17:O1:277:GLU:O	2.06	0.99
11:I2:797:LEU:CD2	17:O3:245:GLU:CG	2.39	0.99
11:I2:911:PRO:HB2	15:M3:584:GLN:NE2	1.60	0.99
17:O4:111:TYR:CZ	18:P4:321:ILE:HD13	1.98	0.99
21:S1:660:LEU:HA	21:S2:1102:VAL:CG2	1.92	0.99
23:U2:394:ILE:CD1	31:c4:539:ILE:CG1	2.22	0.99
23:U2:404:VAL:H	31:c4:551:LEU:HD21	1.25	0.99
26:X2:204:PHE:HZ	34:i:444:GLU:HG2	1.18	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:287:ASP:CB	34:i:480[A]:MET:CB	2.40	0.99
26:X2:307:LYS:HZ2	34:i:421:ILE:HG21	0.84	0.99
28:Z1:438:GLU:HB3	30:b1:314:PRO:HG2	1.42	0.99
28:Z1:554:PHE:CE1	30:b1:232:PRO:HG2	1.98	0.99
28:Z3:531:LYS:NZ	30:b3:166:LEU:HB3	1.76	0.99
2:A2:223:THR:HB	6:D1:709:ARG:HH22	1.25	0.99
2:A2:1135:ARG:CD	3:A5:147:LEU:CD2	2.40	0.99
2:A2:1163:TYR:HD2	3:A5:133:LYS:HG2	1.23	0.99
1:A3:1281:LEU:N	3:A6:625:LEU:HG	1.11	0.99
2:A4:173:ASN:HD22	6:D3:762:ARG:CB	1.75	0.99
2:A4:680:LEU:O	3:A6:405:PHE:CZ	2.16	0.99
2:A4:876:ARG:CD	6:D3:558:LYS:C	2.25	0.99
2:A4:948:ALA:HB3	4:B6:351:GLU:OE1	1.62	0.99
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HD2	1.22	0.99
8:F1:1138:TRP:CG	17:O2:244:GLU:CD	2.31	0.99
11:I1:881:ILE:CD1	17:O1:249:ARG:O	2.10	0.99
11:I1:895:ARG:HE	17:O1:233:THR:CB	1.76	0.99
11:I1:1035:GLN:HG3	15:M1:623:LEU:O	1.61	0.99
11:I2:797:LEU:HB3	17:O3:245:GLU:HG2	1.44	0.99
11:I2:887:GLN:HE22	16:N3:396:ILE:HD12	1.27	0.99
11:I2:980:ILE:HA	15:M3:618:GLN:HA	1.44	0.99
21:S1:654:LYS:C	21:S2:1153:GLN:O	2.06	0.99
23:U1:19:LEU:HB2	31:c2:470:ARG:HB3	1.15	0.99
23:U1:25:GLU:N	31:c2:563:ARG:CD	2.10	0.99
23:U2:432:TYR:CD1	31:c4:464:LEU:CA	2.46	0.99
28:Z2:438:GLU:HB3	30:b2:314:PRO:HG2	1.42	0.99
28:Z2:639:LEU:HA	30:b2:232:PRO:HG3	1.44	0.99
28:Z3:524:VAL:CA	30:b3:237:LEU:O	2.11	0.99
2:A2:866:SER:C	6:D1:598:ILE:HG23	1.87	0.99
1:A3:1204:TRP:CG	2:A4:731:ILE:HG23	1.96	0.99
1:A3:1249:PHE:CG	3:A6:637:THR:OG1	2.14	0.99
2:A4:758:HIS:N	3:A6:544:PHE:CG	2.21	0.99
2:A4:823:VAL:CG1	3:A6:167:TRP:HZ2	1.63	0.99
8:F1:1262:HIS:NE2	17:O2:259:ASP:CB	2.12	0.99
8:F1:1264:ARG:HH12	17:O2:264:ILE:HD13	1.25	0.99
11:I1:924:ILE:CD1	15:M1:595:MET:CG	2.40	0.99
11:I1:1039:ALA:H	20:R1:169:GLY:HA3	0.84	0.99
11:I1:1602:PHE:HD1	11:I2:1666:THR:CG2	1.75	0.99
11:I2:894:VAL:HB	17:O3:239:GLN:N	1.27	0.99
11:I2:917:TYR:CE2	15:M3:591:ASP:N	2.21	0.99
11:I2:977:ASN:HB2	20:R3:150:ASN:CB	1.80	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:396:LEU:HD11	31:c4:549:ALA:C	1.87	0.99
23:U2:403:SER:HB2	31:c4:551:LEU:CD2	1.90	0.99
23:U2:432:TYR:O	31:c4:539:ILE:HG22	1.62	0.99
24:V1:287:ASN:CG	31:c1:11:TYR:CG	2.40	0.99
26:X2:313:LEU:HA	34:i:471:ILE:HG21	1.31	0.99
26:X2:318:GLY:C	34:i:475:ILE:HG23	1.86	0.99
28:Z4:410:ASN:HB3	30:b4:251:ILE:HB	1.44	0.99
1:A1:1204:TRP:HE3	2:A2:734:LEU:HD13	1.24	0.99
1:A3:1195:PHE:CD2	3:A6:678:LEU:N	2.26	0.99
1:A3:1259:CYS:HG	3:A6:624:ASP:HA	1.18	0.99
2:A4:675:ALA:HB1	3:A6:508:LEU:HB3	1.00	0.99
2:A4:702:SER:C	3:A6:399:ASP:HB3	1.88	0.99
2:A4:720:LEU:CD2	3:A6:494:PRO:C	2.34	0.99
2:A4:778:PHE:HB2	3:A6:487:ASP:OD1	1.60	0.99
2:A4:868:GLN:HE21	6:D3:608:ILE:HD12	1.22	0.99
2:A4:878:LEU:C	6:D3:567:LEU:HD12	1.87	0.99
2:A4:904:GLN:NE2	3:A6:136:GLU:OE2	1.94	0.99
2:A4:985:ALA:HB1	6:D3:500:LYS:CA	1.92	0.99
3:A5:1101:GLN:CD	11:I5:33:THR:CG2	2.35	0.99
11:I1:983:LEU:HD12	15:M1:621:ARG:NH2	1.77	0.99
11:I2:898:VAL:HG12	17:O3:235:ASN:HB3	1.39	0.99
11:I2:983:LEU:O	15:M3:614:ASP:N	1.95	0.99
11:I2:1067:PHE:CD1	16:N3:430:ARG:C	2.34	0.99
23:U1:176:GLU:CD	31:c1:505:SER:CB	2.28	0.99
23:U2:407:VAL:C	31:c4:542:LYS:CA	2.36	0.99
28:Z1:530:LYS:HE2	30:b1:164:CYS:SG	2.02	0.99
28:Z3:401:THR:C	30:b3:254:SER:HB3	1.80	0.99
28:Z3:526:ARG:HB3	30:b3:206:ASN:OD1	1.40	0.99
28:Z4:524:VAL:HG11	30:b4:236:THR:O	1.61	0.99
2:A2:874:VAL:HG22	6:D1:611:LYS:NZ	1.78	0.99
2:A2:981:PRO:HG2	6:D1:504:LYS:CG	1.92	0.99
2:A2:1132:PRO:CD	3:A5:160:ILE:HG23	1.91	0.99
1:A3:1186:TRP:CZ3	3:A6:637:THR:HG22	1.97	0.99
1:A3:1268:ASP:H	3:A6:553:ASP:N	1.59	0.99
2:A4:536:ALA:O	3:A6:362:PHE:CZ	2.15	0.99
2:A4:874:VAL:HB	6:D3:571:SER:H	1.28	0.99
2:A4:945:ARG:O	4:B6:351:GLU:OE1	1.79	0.99
2:A4:1094:ILE:HG12	6:D4:759:GLN:NE2	1.76	0.99
3:A5:998:SER:CB	11:I5:62:GLU:OE1	2.11	0.99
3:A5:1365:VAL:CB	28:Z2:841:ALA:HB3	1.93	0.99
9:G1:263:MET:HA	16:N2:411:GLN:HB3	1.02	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:940:LEU:HD23	17:O1:262:ASP:HA	1.44	0.99
11:I1:951:LYS:HB3	17:O1:253:LEU:HD11	1.45	0.99
11:I1:992:ILE:H	15:M1:608:LYS:HG3	0.94	0.99
11:I3:1267:LEU:HD13	26:X1:497:ARG:NH1	1.78	0.99
11:I3:1277:LEU:HD13	26:X1:511:TYR:CE2	1.98	0.99
22:T1:826:GLY:HA3	31:c5:23:ARG:NH2	1.78	0.99
23:U1:19:LEU:CD1	31:c2:470:ARG:HD3	1.88	0.99
23:U2:435:PHE:CE1	31:c4:461:PHE:CE1	2.51	0.99
26:X2:196:ASP:OD1	34:i:366:PHE:CE1	2.15	0.99
26:X2:311:LEU:CA	34:i:401:CYS:N	2.26	0.99
28:Z3:639:LEU:HA	30:b3:232:PRO:HG3	1.44	0.99
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG12	1.98	0.99
1:A3:1021:LEU:CD1	6:D3:816:VAL:CA	2.40	0.99
2:A4:692:VAL:HG13	3:A6:467:LEU:HA	1.00	0.99
2:A4:827:ILE:HA	3:A6:132:ASP:HA	1.41	0.99
2:A4:886:PHE:CA	3:A6:174:PRO:C	2.33	0.99
11:I1:952:LEU:CB	16:N1:400:LEU:HD22	1.93	0.99
11:I1:981:VAL:HG13	20:R1:151:LYS:HB2	1.42	0.99
23:U1:431:ILE:HG12	31:c2:469:SER:CA	1.91	0.99
23:U2:435:PHE:HE1	31:c4:539:ILE:HG13	1.19	0.99
28:Z1:526:ARG:N	30:b1:208:ASN:CG	2.20	0.99
28:Z1:561:GLN:HB3	30:b1:236:THR:C	1.88	0.99
2:A2:868:GLN:HE21	6:D1:608:ILE:C	1.71	0.99
2:A2:1135:ARG:HE	3:A5:134:VAL:HG13	1.27	0.99
1:A3:1241:ARG:HH22	3:A6:596:ARG:HB3	0.86	0.99
2:A4:761:GLN:HB2	3:A6:535:PHE:CD1	1.98	0.99
2:A4:889:VAL:HG11	3:A6:171:HIS:HB3	1.41	0.99
2:A4:900:THR:C	3:A6:137:HIS:NE2	2.18	0.99
2:A4:1054:SER:HB2	6:D4:762:ARG:HE	1.26	0.99
3:A5:1313:LYS:N	28:Z2:830:LEU:O	1.96	0.99
9:G1:253:SER:CB	15:M2:601:ASP:CB	2.14	0.99
11:I1:841:PHE:CD2	17:O1:243:LEU:HD11	1.92	0.99
11:I1:880:MET:HB2	17:O1:250:LEU:HB2	1.25	0.99
11:I1:899:LEU:HD22	17:O1:231:ASP:CG	1.70	0.99
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG21	1.43	0.99
11:I2:925:LEU:CD1	20:R3:156:GLY:N	2.25	0.99
11:I2:976:ARG:HH21	20:R3:143:PHE:C	1.69	0.99
11:I2:981:VAL:HB	20:R3:147:LEU:CG	1.93	0.99
11:I2:1053:GLY:O	17:O3:279:ILE:O	1.81	0.99
23:U2:398:ILE:HD12	31:c4:535:VAL:HB	1.45	0.99
23:U2:436:LEU:CG	31:c4:540:HIS:CG	2.46	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:282:PHE:HD2	34:i:15:GLN:HB3	1.23	0.99
28:Z1:410:ASN:HB3	30:b1:251:ILE:HB	1.44	0.99
28:Z3:526:ARG:HB2	30:b3:206:ASN:OD1	1.61	0.99
2:A2:868:GLN:HB3	6:D1:570:VAL:CG1	1.93	0.98
2:A2:1094:ILE:HD11	6:D2:759:GLN:NE2	1.74	0.98
2:A2:1144:ASP:C	3:A5:129:ASN:CG	2.31	0.98
1:A3:1248:ILE:HD11	3:A6:587:VAL:HG23	1.44	0.98
2:A4:643:ALA:CA	3:A6:501:VAL:HG12	1.93	0.98
2:A4:673:HIS:CE1	3:A6:541:PRO:HB3	1.98	0.98
2:A4:909:LYS:CG	6:D3:555:ARG:HH11	1.74	0.98
6:D6:796:ALA:O	22:T3:768:ASN:ND2	1.96	0.98
6:D6:800:PRO:HB3	22:T3:765:LYS:HB2	1.45	0.98
6:D7:530:ARG:C	11:I3:181:GLN:HB2	1.86	0.98
11:I1:884:LEU:HD12	17:O1:246:LEU:HD21	1.42	0.98
11:I1:947:LEU:HD13	17:O1:256:TYR:HH	1.23	0.98
11:I1:949:CYS:O	16:N1:403:VAL:HG11	1.61	0.98
11:I1:950:LEU:CD2	16:N1:406:HIS:HD2	1.35	0.98
11:I2:884:LEU:CD1	15:M3:599:ILE:HD11	1.91	0.98
11:I2:964:SER:C	20:R3:153:GLN:NE2	2.20	0.98
11:I2:1065:SER:HB2	17:O3:274:GLY:O	1.62	0.98
23:U1:16:SER:CB	31:c2:470:ARG:NE	2.01	0.98
28:Z2:524:VAL:CA	30:b2:237:LEU:O	2.11	0.98
28:Z4:524:VAL:CA	30:b4:237:LEU:O	2.11	0.98
2:A2:227:SER:CB	6:D1:711:PHE:HD2	1.75	0.98
2:A2:867:GLU:N	6:D1:605:THR:HB	1.77	0.98
2:A2:873:PRO:O	6:D1:563:GLU:CG	2.10	0.98
2:A2:982:THR:HG21	6:D1:494:LEU:CA	1.91	0.98
2:A2:1114:ILE:CD1	5:C2:731:LYS:HB2	1.92	0.98
2:A2:1149:THR:H	3:A5:172:PRO:N	1.58	0.98
1:A3:1224:PRO:CB	2:A4:731:ILE:CG1	2.16	0.98
1:A3:1267:GLN:CD	3:A6:552:PHE:H	1.68	0.98
2:A4:688:TRP:NE1	3:A6:394:LEU:HG	1.77	0.98
2:A4:1114:ILE:CD1	5:C4:731:LYS:HB2	1.92	0.98
5:C1:732:LYS:HE2	11:I1:1228:GLU:CD	1.88	0.98
6:D5:718:LYS:HD3	31:c4:504:ASN:ND2	1.76	0.98
8:F2:1091:SER:N	17:O4:245:GLU:N	1.96	0.98
11:I1:920:PHE:HB2	17:O1:243:LEU:HD22	1.46	0.98
11:I1:950:LEU:CB	16:N1:407:ALA:H	1.60	0.98
11:I1:980:ILE:HG13	20:R1:147:LEU:HD12	1.43	0.98
11:I2:841:PHE:CG	15:M3:588:MET:HG3	1.97	0.98
11:I2:950:LEU:HD21	16:N3:410:MET:HE1	1.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:597:ILE:N	21:S2:1119:LEU:N	2.11	0.98
26:X2:303:PHE:C	34:i:418:LEU:HD11	1.58	0.98
28:Z1:524:VAL:CA	30:b1:237:LEU:O	2.11	0.98
28:Z2:561:GLN:HB3	30:b2:236:THR:C	1.88	0.98
28:Z3:524:VAL:HG11	30:b3:236:THR:O	1.61	0.98
28:Z4:411:LEU:HD23	30:b4:251:ILE:HG23	1.43	0.98
28:Z4:522:ASN:CG	30:b4:241:PRO:CB	2.34	0.98
2:A2:864:ARG:CZ	6:D1:610:ASN:HD21	1.68	0.98
2:A2:866:SER:HB3	6:D1:602:THR:C	1.87	0.98
2:A2:980:ARG:HE	6:D1:525:ARG:CA	1.74	0.98
1:A3:1163:TYR:HD1	3:A6:648:TYR:HB3	0.89	0.98
1:A3:1165:ASP:CB	3:A6:598:VAL:CG2	1.91	0.98
1:A3:1393:THR:CB	3:A6:227:SER:O	2.11	0.98
2:A4:768:SER:N	3:A6:476:PHE:C	2.09	0.98
2:A4:806:PHE:CB	3:A6:382:SER:HB2	1.84	0.98
2:A4:859:GLN:CG	3:A6:176:LEU:CD2	2.41	0.98
2:A4:1114:ILE:HD11	5:C4:731:LYS:HG3	1.41	0.98
3:A5:1406:GLY:H	28:Z2:918:PHE:CA	1.76	0.98
11:I1:912:VAL:N	15:M1:584:GLN:HE21	1.56	0.98
11:I1:1607:GLN:CG	11:I2:1739:GLU:N	2.17	0.98
11:I1:1611:PHE:CE2	11:I2:1669:ARG:CZ	2.41	0.98
11:I2:1046:HIS:N	17:O3:280:GLU:CA	2.26	0.98
11:I3:1273:GLU:N	26:X1:526:CYS:N	1.66	0.98
22:T1:720:ILE:HB	31:c5:31:TYR:CZ	1.96	0.98
22:T1:819:ASN:CA	31:c5:57:GLU:OE2	2.10	0.98
23:U1:198:GLU:OE1	31:c1:637:ASP:CG	2.07	0.98
23:U1:401:PRO:HA	31:c2:552:ARG:CA	1.75	0.98
26:X2:187:THR:HG23	34:i:444:GLU:HA	1.38	0.98
26:X2:309:LEU:HD22	34:i:396:HIS:HB2	1.02	0.98
26:X2:368:LEU:HA	34:i:441:LEU:CD2	1.93	0.98
28:Z2:535:ILE:HG12	30:b2:182:PRO:HB3	1.39	0.98
2:A2:870:HIS:CG	6:D1:566:PHE:CD1	2.51	0.98
2:A2:1154:PHE:CG	3:A5:175:GLU:OE1	2.15	0.98
1:A3:1132:PRO:CD	3:A6:653:ARG:HH22	1.75	0.98
1:A3:1189:LEU:CG	3:A6:641:ALA:HA	1.70	0.98
1:A3:1251:VAL:CA	3:A6:634:ASP:HB2	1.92	0.98
2:A4:822:ILE:CG2	3:A6:526:ILE:HD12	1.67	0.98
11:I1:884:LEU:HG	17:O1:246:LEU:CG	1.73	0.98
11:I1:1049:LEU:CB	17:O1:291:ASP:HB2	1.74	0.98
11:I2:899:LEU:C	17:O3:232:LYS:CG	2.24	0.98
11:I2:938:CYS:C	17:O3:261:LYS:O	2.07	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:948:ALA:HA	17:O3:253:LEU:HD23	1.42	0.98
11:I2:982:GLN:HB3	15:M3:621:ARG:NH1	1.78	0.98
11:I2:1052:LEU:CG	17:O3:283:ALA:HB1	1.93	0.98
11:I3:1273:GLU:CA	26:X1:523:LEU:HA	1.93	0.98
23:U2:391:HIS:HB2	31:c4:477:GLU:CG	1.93	0.98
1:A1:1200:ARG:NE	2:A2:642:ARG:NH2	2.11	0.98
1:A3:1056:PHE:CE2	6:D3:806:ASP:O	2.16	0.98
1:A3:1225:PRO:HD3	3:A6:497:GLY:CA	1.92	0.98
1:A3:1236:GLN:NE2	3:A6:573:ARG:NE	2.10	0.98
2:A4:227:SER:HB2	6:D3:712:ASP:H	1.28	0.98
2:A4:607:ARG:HA	3:A6:506:SER:CB	1.92	0.98
2:A4:771:ILE:HD13	3:A6:478:ASP:CB	1.94	0.98
2:A4:789:LEU:HD23	3:A6:145:THR:O	1.64	0.98
2:A4:889:VAL:HG21	3:A6:174:PRO:HB3	1.45	0.98
8:F1:1265:GLN:C	17:O2:265:ASN:HD22	1.71	0.98
9:G2:256:GLN:CG	17:O4:262:ASP:H	1.76	0.98
11:I1:874:LEU:CD2	17:O1:252:VAL:CG1	2.41	0.98
11:I1:913:ALA:H	15:M1:584:GLN:CD	1.70	0.98
11:I1:939:ASN:O	17:O1:265:ASN:CB	2.10	0.98
11:I1:980:ILE:HD13	15:M1:622:VAL:N	1.43	0.98
11:I1:983:LEU:CD1	15:M1:621:ARG:HH21	1.75	0.98
11:I1:1071:LEU:H	16:N1:429:GLU:CG	1.73	0.98
11:I2:1044:GLY:O	17:O3:280:GLU:CG	2.11	0.98
17:O4:110:LEU:CD2	18:P4:321:ILE:CB	2.42	0.98
23:U2:429:ILE:O	31:c4:462:HIS:N	1.72	0.98
26:X2:315:GLN:HB3	34:i:399:PRO:HB2	0.99	0.98
26:X2:374:TYR:CE1	34:i:422:HIS:O	1.93	0.98
1:A1:1204:TRP:CE3	2:A2:734:LEU:CD1	2.45	0.98
2:A2:780:GLU:N	6:D1:678:GLY:N	2.12	0.98
2:A2:1149:THR:N	3:A5:172:PRO:CG	2.27	0.98
1:A3:1189:LEU:HB3	3:A6:641:ALA:HB1	1.40	0.98
1:A3:1278:PRO:HG2	3:A6:624:ASP:HB2	1.27	0.98
1:A3:1282:PHE:H	3:A6:625:LEU:HB3	0.82	0.98
1:A3:1393:THR:CB	3:A6:227:SER:C	2.37	0.98
2:A4:616:ALA:HB1	3:A6:109:ASP:OD1	1.61	0.98
2:A4:760:LEU:CG	3:A6:98:LEU:HB2	1.93	0.98
2:A4:808:GLN:HE21	3:A6:383:PRO:HG3	1.29	0.98
11:I1:833:PHE:CZ	17:O1:241:SER:HB3	1.60	0.98
11:I1:880:MET:HB2	17:O1:250:LEU:CA	1.91	0.98
11:I1:1036:PRO:C	15:M1:623:LEU:C	2.31	0.98
11:I1:1041:GLN:CA	15:M1:620:VAL:HG23	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1049:LEU:CB	20:R1:146:LEU:CD1	2.40	0.98
11:I1:1108:PRO:CB	16:N1:443:GLU:HB2	1.93	0.98
11:I1:1110:SER:OG	16:N1:437:VAL:HB	1.64	0.98
11:I1:1113:LEU:HB2	16:N1:435:ALA:CB	1.94	0.98
11:I2:1186:PRO:HG3	17:O4:225:GLN:CD	1.87	0.98
26:X2:300:SER:HB2	34:i:335:HIS:H	1.29	0.98
26:X2:365:ILE:HG13	34:i:421:ILE:O	1.63	0.98
28:Z2:524:VAL:CG1	30:b2:236:THR:HB	1.86	0.98
2:A2:867:GLU:H	6:D1:605:THR:CB	1.69	0.98
2:A2:1137:ALA:HB1	3:A5:564:ASN:CG	1.89	0.98
2:A2:1157:TYR:HD1	3:A5:134:VAL:HG23	0.87	0.98
1:A3:1196:GLU:O	3:A6:609:GLU:CD	2.05	0.98
1:A3:1249:PHE:CD2	3:A6:633:MET:SD	2.57	0.98
2:A4:717:VAL:CG1	3:A6:492:SER:O	2.12	0.98
2:A4:824:ASN:OD1	2:A4:859:GLN:OE1	1.75	0.98
3:A5:232:LEU:HD11	5:C2:739:MET:HG3	1.42	0.98
3:A6:1399:ARG:NH2	28:Z4:968:ARG:H	1.60	0.98
9:G1:252:LEU:C	15:M2:602:MET:SD	2.47	0.98
11:I1:1020:ALA:CA	16:N1:405:ALA:C	1.80	0.98
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD13	1.64	0.98
17:O4:106:HIS:O	18:P4:318:PRO:HG2	1.64	0.98
23:U1:402:GLY:H	31:c2:552:ARG:H	0.98	0.98
23:U2:41:GLU:HB3	31:c4:563:ARG:HH11	1.18	0.98
23:U2:393:ALA:O	31:c4:551:LEU:HB3	1.64	0.98
26:X2:205:ILE:CG1	34:i:445:GLN:O	2.00	0.98
28:Z3:410:ASN:HB3	30:b3:251:ILE:HB	1.44	0.98
28:Z3:524:VAL:CG1	30:b3:236:THR:O	2.12	0.98
1:A3:1254:LEU:CA	3:A6:634:ASP:HB3	1.86	0.98
2:A4:676:LEU:HG	3:A6:499:ILE:HD13	1.43	0.98
2:A4:691:LYS:CD	3:A6:316:ARG:HD2	1.80	0.98
2:A4:712:THR:C	3:A6:490:PHE:CZ	2.40	0.98
2:A4:737:PRO:HA	3:A6:89:LEU:HB3	1.43	0.98
3:A5:232:LEU:HD22	5:C2:736:ASN:O	1.64	0.98
3:A5:1391:ARG:CA	28:Z2:871:HIS:CA	2.38	0.98
3:A6:445:THR:HG21	6:D3:716:ARG:O	1.62	0.98
3:A6:1160:GLN:NE2	5:C6:740:ARG:HD2	1.79	0.98
11:I1:878:GLN:N	17:O1:252:VAL:N	2.12	0.98
11:I1:1020:ALA:HB1	16:N1:406:HIS:C	1.83	0.98
11:I1:1048:GLU:HG2	17:O1:288:GLU:HG3	1.46	0.98
11:I2:967:SER:H	20:R3:153:GLN:NE2	1.58	0.98
11:I2:1029:LEU:N	20:R3:173:LEU:N	2.06	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1029:LEU:HD22	16:N3:437:VAL:CG2	1.94	0.98
21:S1:670:ILE:N	21:S2:1146:ALA:HA	1.78	0.98
23:U1:275:GLU:HB2	25:W2:190:ASP:HA	1.45	0.98
23:U2:432:TYR:O	31:c4:539:ILE:HG21	1.54	0.98
24:V1:378:SER:OG	31:c1:61:LYS:HE3	1.64	0.98
26:X2:317:PHE:CD2	34:i:474:ASP:CB	2.46	0.98
28:Z3:561:GLN:HB3	30:b3:236:THR:C	1.88	0.98
2:A2:987:LYS:HD2	6:D1:555:ARG:CZ	1.93	0.98
2:A2:1114:ILE:HD11	5:C2:731:LYS:HG3	1.41	0.98
2:A4:677:ALA:H	3:A6:98:LEU:CA	1.63	0.98
2:A4:717:VAL:HG22	3:A6:512:GLU:OE1	1.64	0.98
2:A4:757:LEU:CD1	3:A6:543:GLY:N	2.27	0.98
3:A5:999:SER:HG	11:I5:63:PRO:HD2	1.17	0.98
3:A6:520:GLU:H	6:D3:680:SER:C	1.58	0.98
3:A6:564:ASN:ND2	6:D3:679:ILE:HD11	1.79	0.98
11:I1:1054:ILE:C	17:O1:278:GLU:C	2.19	0.98
11:I1:1108:PRO:HD3	16:N1:443:GLU:HB3	1.45	0.98
11:I1:1114:VAL:H	16:N1:435:ALA:HB1	1.17	0.98
11:I1:1607:GLN:HG3	11:I2:1739:GLU:CB	1.94	0.98
11:I1:1607:GLN:O	12:J2:298:PHE:CD1	2.07	0.98
11:I2:833:PHE:HZ	17:O3:242:ARG:HA	1.27	0.98
11:I2:1031:ALA:H	20:R3:172:ASP:C	1.71	0.98
11:I2:1106:LYS:HB3	16:N3:440:GLU:HG3	1.44	0.98
18:P2:319:VAL:CG2	18:P3:278:ASN:ND2	2.27	0.98
23:U1:26:GLN:HB2	31:c2:562:LEU:HB3	0.99	0.98
23:U2:37:ASN:N	31:c4:558:GLU:C	2.20	0.98
23:U2:435:PHE:CE1	31:c4:539:ILE:CG1	2.45	0.98
23:U2:435:PHE:CB	31:c4:536:CYS:O	2.10	0.98
1:A3:1261:TYR:CB	3:A6:621:GLN:N	2.27	0.98
1:A3:1271:ILE:HG23	3:A6:553:ASP:CG	1.89	0.98
2:A4:710:LEU:C	3:A6:490:PHE:HB3	1.88	0.98
2:A4:712:THR:CG2	3:A6:461:ALA:HB3	1.93	0.98
2:A4:895:PRO:HA	4:B6:344:ALA:CB	1.94	0.98
2:A4:950:ASP:OD1	4:B6:348:PRO:HA	1.31	0.98
3:A5:1406:GLY:N	28:Z2:917:ASP:C	2.21	0.98
3:A6:1410:ALA:CA	26:X4:686:ASP:CB	2.42	0.98
11:I1:1611:PHE:CB	11:I2:1672:VAL:CG2	2.41	0.98
11:I2:1048:GLU:CG	17:O3:288:GLU:CG	2.42	0.98
21:S1:671:ALA:CB	21:S2:1146:ALA:H	1.75	0.98
23:U1:24:ILE:HG23	31:c2:601:ARG:HE	1.25	0.98
23:U2:24:ILE:HG23	31:c4:485:GLU:CG	1.86	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:436:LEU:HG	31:c4:540:HIS:CB	1.93	0.98
28:Z1:524:VAL:N	30:b1:237:LEU:O	1.96	0.98
28:Z2:554:PHE:CE1	30:b2:232:PRO:HG2	1.98	0.98
28:Z3:524:VAL:N	30:b3:237:LEU:O	1.96	0.98
28:Z4:524:VAL:CG1	30:b4:236:THR:O	2.12	0.98
28:Z4:555:LYS:HG2	30:b4:213:ASP:H	1.25	0.98
1:A1:1052:THR:HG22	6:D1:812:VAL:HG12	1.42	0.97
1:A1:1199:GLN:O	2:A2:730:THR:CA	2.08	0.97
2:A2:867:GLU:N	6:D1:605:THR:CB	2.23	0.97
2:A2:980:ARG:HD3	6:D1:503:LEU:HB2	1.45	0.97
1:A3:1270:SER:HG	3:A6:553:ASP:CG	1.72	0.97
1:A3:1271:ILE:HG23	3:A6:553:ASP:HB3	1.44	0.97
1:A3:1306:PRO:HB3	3:A6:715:GLU:HB3	0.99	0.97
2:A4:712:THR:HG23	3:A6:461:ALA:HB1	1.46	0.97
2:A4:768:SER:N	3:A6:476:PHE:N	2.12	0.97
3:A5:1026:PRO:C	11:I5:67:LYS:C	2.32	0.97
3:A5:1160:GLN:NE2	5:C5:740:ARG:HD2	1.79	0.97
3:A5:1300:LEU:HG	28:Z2:838:GLN:CB	1.94	0.97
3:A5:1416:ARG:HG3	28:Z2:962:LYS:CB	1.61	0.97
11:I1:884:LEU:HD12	16:N1:400:LEU:HD12	1.00	0.97
11:I1:938:CYS:CA	15:M1:606:LEU:HD12	1.94	0.97
11:I5:1279:THR:HG23	26:X2:520:GLU:HB2	1.35	0.97
17:O2:110:LEU:CD2	18:P2:321:ILE:O	2.07	0.97
21:S3:678:GLU:CB	21:S4:1144:LEU:H	1.76	0.97
23:U1:398:ILE:CB	31:c2:556:GLN:OE1	1.94	0.97
24:V1:287:ASN:CB	31:c1:11:TYR:CE2	2.46	0.97
26:X2:283:ASP:N	34:i:15:GLN:HG2	1.77	0.97
28:Z1:639:LEU:HA	30:b1:232:PRO:HG3	1.44	0.97
28:Z4:526:ARG:C	30:b4:206:ASN:OD1	2.07	0.97
1:A1:1332:ARG:CZ	6:D1:682:ASN:H	1.77	0.97
1:A3:1118:GLN:CB	3:A6:592:ASP:OD1	2.10	0.97
1:A3:1257:VAL:HB	3:A6:638:GLU:OE2	0.89	0.97
2:A4:75:LEU:HD23	3:A6:323:THR:HG1	1.15	0.97
2:A4:611:ILE:CB	3:A6:508:LEU:HB2	1.84	0.97
2:A4:802:TYR:CD2	3:A6:397:LEU:HD23	1.99	0.97
2:A4:806:PHE:CD2	3:A6:395:MET:HE2	1.98	0.97
2:A4:976:LEU:HD21	6:D3:245:ARG:HH11	1.25	0.97
2:A4:985:ALA:CB	6:D3:500:LYS:N	2.26	0.97
3:A5:1379:GLY:HA2	28:Z2:816:THR:H	1.27	0.97
4:B5:344:ALA:HB1	5:C2:737:LYS:HD3	1.04	0.97
6:D7:530:ARG:CB	11:I3:181:GLN:CB	2.25	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:964:SER:C	20:R3:153:GLN:HE21	1.72	0.97
11:I2:1024:PHE:CB	16:N3:406:HIS:CE1	2.44	0.97
11:I2:1039:ALA:CA	20:R3:170:LEU:HD11	1.86	0.97
17:O3:148:ARG:NH1	18:P3:325:ILE:CG2	2.21	0.97
21:S1:679:ILE:O	21:S2:1071:LEU:HD22	1.62	0.97
22:T1:824:VAL:HG21	31:c5:55:VAL:CA	1.91	0.97
23:U2:392:LEU:HD21	31:c4:549:ALA:HA	1.01	0.97
23:U2:394:ILE:HG21	31:c4:535:VAL:HG23	0.99	0.97
26:X2:290:GLU:CB	34:i:492:TRP:CE2	2.39	0.97
26:X2:304:ARG:C	34:i:405:TYR:CD1	2.38	0.97
26:X2:317:PHE:C	34:i:475:ILE:N	2.06	0.97
28:Z4:401:THR:C	30:b4:254:SER:HB3	1.80	0.97
28:Z4:526:ARG:HB2	30:b4:206:ASN:OD1	1.61	0.97
1:A3:1277:TRP:CZ3	3:A6:622:GLY:CA	2.48	0.97
2:A4:81:ALA:CA	3:A6:388:GLU:HB3	1.93	0.97
2:A4:231:SER:CB	6:D3:709:ARG:HH21	1.77	0.97
2:A4:616:ALA:HB3	3:A6:509:LYS:HD2	1.46	0.97
2:A4:643:ALA:O	3:A6:503:GLN:HB2	1.62	0.97
2:A4:761:GLN:CD	3:A6:545:GLY:C	2.32	0.97
2:A4:781:ARG:HH11	6:D3:673:ARG:NH1	1.60	0.97
2:A4:826:ASN:HD21	3:A6:565:THR:CB	1.71	0.97
2:A4:859:GLN:HB3	3:A6:134:VAL:CG2	1.92	0.97
2:A4:878:LEU:CD2	6:D3:607:PRO:CG	2.27	0.97
2:A4:878:LEU:C	6:D3:567:LEU:CD1	2.36	0.97
3:A6:518:GLU:C	6:D3:686:ASP:CG	2.30	0.97
11:I1:884:LEU:CD2	16:N1:396:ILE:CB	2.30	0.97
11:I1:925:LEU:CB	20:R1:164:PRO:O	2.12	0.97
11:I1:1104:LEU:HD21	16:N1:433:GLU:HG3	1.45	0.97
11:I2:875:ARG:O	17:O3:251:ILE:HB	1.64	0.97
11:I2:899:LEU:HD11	17:O3:234:LEU:HB3	1.47	0.97
11:I2:1040:HIS:CB	15:M3:619:ILE:HG22	1.92	0.97
11:I2:1042:LEU:O	16:N3:430:ARG:NH2	1.98	0.97
11:I4:1270:LYS:CE	26:X3:527:VAL:HG12	1.67	0.97
26:X2:368:LEU:CA	34:i:441:LEU:CD2	2.41	0.97
28:Z1:524:VAL:CG1	30:b1:236:THR:O	2.12	0.97
28:Z4:524:VAL:N	30:b4:237:LEU:O	1.96	0.97
2:A2:870:HIS:HE2	6:D1:551:PHE:C	1.72	0.97
2:A2:970:PHE:C	6:D1:202:GLN:HG3	1.89	0.97
1:A3:1166:LEU:N	3:A6:648:TYR:HE2	1.62	0.97
1:A3:1192:GLN:HE21	3:A6:611:ILE:HA	1.24	0.97
1:A3:1201:ARG:HA	3:A6:546:ASN:ND2	1.76	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1325:MET:HE2	3:A6:126:ARG:NH2	1.77	0.97
2:A4:763:LEU:CG	3:A6:470:ARG:CD	2.35	0.97
2:A4:795:GLN:O	3:A6:250:PHE:CE2	2.18	0.97
2:A4:867:GLU:N	6:D3:598:ILE:HG12	1.79	0.97
2:A4:889:VAL:CG2	3:A6:174:PRO:HA	1.94	0.97
2:A4:898:LEU:HB2	3:A6:177:ILE:HA	1.46	0.97
3:A6:1416:ARG:O	28:Z4:1002:MET:N	1.96	0.97
8:F1:1137:GLN:CG	17:O2:248:SER:CB	2.43	0.97
11:I1:952:LEU:CD1	16:N1:400:LEU:HD22	1.77	0.97
11:I3:1273:GLU:HA	26:X1:523:LEU:CA	1.86	0.97
11:I4:813:ILE:O	26:X3:496:THR:HA	1.62	0.97
11:I4:1271:GLU:O	26:X3:521:TRP:CD1	2.17	0.97
21:S1:597:ILE:CA	21:S2:1120:PRO:CD	2.39	0.97
26:X2:321:ALA:N	34:i:84:ARG:CZ	2.26	0.97
26:X2:336:LEU:CD2	34:i:478:PRO:CD	2.42	0.97
26:X2:363:TYR:CZ	34:i:419:THR:CG2	2.46	0.97
1:A1:875:LEU:HD12	6:D3:276:GLY:C	1.90	0.97
2:A2:986:THR:HG21	6:D1:504:LYS:HD2	1.46	0.97
2:A2:1155:ASN:ND2	5:C2:735:ILE:HA	1.80	0.97
1:A3:1195:PHE:HA	3:A6:678:LEU:HB3	1.45	0.97
1:A3:1230:TYR:CD1	3:A6:613:ALA:HB2	2.00	0.97
1:A3:1235:ILE:HD11	3:A6:617:VAL:HG22	1.47	0.97
2:A4:547:GLU:O	3:A6:455:LEU:HD22	1.63	0.97
2:A4:692:VAL:N	3:A6:379:VAL:O	1.58	0.97
2:A4:773:PHE:HD1	3:A6:469:PHE:CZ	1.83	0.97
2:A4:816:LYS:HG2	3:A6:157:TRP:NE1	1.79	0.97
2:A4:879:LEU:H	6:D3:567:LEU:CD1	1.64	0.97
3:A5:172:PRO:HD2	5:C2:730:HIS:HB2	1.44	0.97
3:A5:172:PRO:CG	5:C2:730:HIS:ND1	2.27	0.97
3:A6:842:ARG:NH2	8:F2:777:ASN:CG	2.22	0.97
3:A6:1365:VAL:HA	28:Z4:878:HIS:CA	1.94	0.97
6:D5:237:PRO:HD3	31:c3:552:ARG:NH1	1.79	0.97
8:F1:1261:TYR:CE1	17:O2:263:GLN:HB3	1.98	0.97
11:I1:884:LEU:CD1	16:N1:400:LEU:HD12	1.92	0.97
11:I1:894:VAL:HG21	17:O1:238:ALA:CA	1.95	0.97
11:I1:941:GLY:N	17:O1:259:ASP:O	1.96	0.97
11:I1:1021:ILE:HA	16:N1:406:HIS:CG	1.99	0.97
11:I1:1046:HIS:HB3	17:O1:280:GLU:O	1.64	0.97
11:I1:1052:LEU:HB2	16:N1:438:LEU:CD1	1.37	0.97
11:I1:1100:ILE:O	20:R1:174:ARG:NH2	1.97	0.97
11:I2:978:LYS:O	15:M3:621:ARG:NH1	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:777:SER:HB2	29:a2:40[A]:GLU:HG2	0.99	0.97
11:I3:1278:ALA:O	26:X1:520:GLU:HA	1.64	0.97
23:U1:20:LYS:O	31:c2:471:LEU:HD12	1.65	0.97
26:X2:287:ASP:OD1	34:i:480[B]:MET:HG3	1.62	0.97
28:Z1:524:VAL:CG1	30:b1:236:THR:HB	1.86	0.97
28:Z2:410:ASN:HB3	30:b2:251:ILE:HB	1.44	0.97
28:Z2:528:ILE:N	30:b2:208:ASN:ND2	2.05	0.97
28:Z3:526:ARG:C	30:b3:206:ASN:OD1	2.07	0.97
28:Z3:557:CYS:CB	30:b3:210:ARG:NH1	2.05	0.97
28:Z4:561:GLN:HB3	30:b4:236:THR:C	1.88	0.97
2:A2:826:ASN:OD1	6:D1:633:LYS:CB	2.10	0.97
2:A2:1125:LEU:CG	3:A5:132:ASP:O	2.06	0.97
2:A2:1136:LYS:CG	3:A5:138:LEU:HB3	1.89	0.97
2:A2:1145:GLY:CA	3:A5:129:ASN:HD22	1.76	0.97
2:A4:89:LEU:CB	3:A6:406:LEU:HG	1.94	0.97
2:A4:670:SER:H	3:A6:542:LEU:HD21	1.29	0.97
2:A4:769:GLU:O	3:A6:528:ILE:CG2	2.12	0.97
2:A4:781:ARG:HH21	6:D3:633:LYS:CE	1.75	0.97
2:A4:789:LEU:HD23	3:A6:146:LYS:HB2	1.21	0.97
2:A4:792:VAL:CG2	3:A6:248:VAL:HB	1.95	0.97
2:A4:802:TYR:CD1	3:A6:397:LEU:HD23	2.00	0.97
2:A4:987:LYS:NZ	6:D3:556:ASP:CG	2.20	0.97
3:A6:1413:SER:O	28:Z4:994:ILE:CA	2.11	0.97
11:I1:1054:ILE:H	17:O1:282:LYS:HB2	1.25	0.97
11:I1:1114:VAL:HG12	16:N1:432:TYR:HE2	1.19	0.97
11:I2:884:LEU:HD12	16:N3:400:LEU:CG	1.93	0.97
11:I2:894:VAL:H	17:O3:239:GLN:CG	1.76	0.97
11:I2:944:GLU:CB	17:O3:256:TYR:CD1	2.47	0.97
11:I2:950:LEU:HD11	16:N3:410:MET:CB	1.77	0.97
11:I2:957:SER:HB2	20:R3:168:LEU:C	1.88	0.97
11:I2:968:PRO:HD3	20:R3:153:GLN:HB2	1.00	0.97
11:I3:1270:LYS:HG2	26:X1:527:VAL:O	1.65	0.97
18:P1:280:THR:H	18:P4:322:LYS:HD3	1.26	0.97
23:U2:426:TYR:HA	31:c4:463:HIS:CE1	1.99	0.97
26:X2:308:ASN:ND2	34:i:315:LEU:HG	1.78	0.97
26:X2:318:GLY:CA	34:i:475:ILE:CG2	2.43	0.97
26:X2:360:PHE:CB	34:i:423:LYS:HG2	1.95	0.97
1:A1:1099:GLN:HG2	11:I1:1414:CYS:O	1.64	0.97
2:A2:1135:ARG:CD	3:A5:147:LEU:HD21	1.94	0.97
2:A2:1151:THR:HG23	5:C2:734:VAL:N	1.68	0.97
1:A3:1088:ASN:HA	6:D3:808:ASN:HB3	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1118:GLN:CA	3:A6:592:ASP:OD1	2.11	0.97
2:A4:703:SER:N	3:A6:399:ASP:CA	2.28	0.97
2:A4:760:LEU:HD21	3:A6:98:LEU:HB2	0.99	0.97
2:A4:1149:THR:CA	5:C4:730:HIS:N	2.19	0.97
3:A5:1054:SER:CB	11:I5:38:GLN:OE1	2.12	0.97
6:D5:235:LEU:O	31:c3:552:ARG:NH1	1.98	0.97
8:F1:1093:LEU:CB	17:O2:244:GLU:OE1	2.05	0.97
11:I1:1038:ILE:O	15:M1:620:VAL:HG21	1.64	0.97
11:I1:1040:HIS:HE2	16:N1:437:VAL:HG22	1.26	0.97
11:I1:1052:LEU:HA	17:O1:287:LEU:HD13	1.45	0.97
11:I1:1066:LEU:HB3	16:N1:430:ARG:CG	1.93	0.97
11:I1:1072:ASN:OD1	16:N1:429:GLU:OE1	1.81	0.97
11:I2:797:LEU:HD11	17:O3:244:GLU:O	1.65	0.97
11:I2:931:VAL:HB	15:M3:600:ASN:C	1.89	0.97
11:I2:946:THR:H	17:O3:260:LEU:N	1.63	0.97
11:I2:1040:HIS:NE2	16:N3:437:VAL:CG1	2.28	0.97
11:I2:1101:LEU:C	16:N3:432:TYR:OH	2.02	0.97
22:T1:752:ALA:CB	31:c5:58:ARG:CD	2.35	0.97
23:U1:437:ASN:HB2	31:c2:540:HIS:HA	0.98	0.97
23:U2:394:ILE:CG2	31:c4:535:VAL:CA	2.32	0.97
26:X2:192:LEU:HD11	34:i:442:SER:CA	1.95	0.97
28:Z4:524:VAL:CG1	30:b4:236:THR:HB	1.86	0.97
1:A1:1225:PRO:O	2:A2:728:LYS:CB	2.13	0.97
2:A2:227:SER:HB2	6:D1:711:PHE:HD2	1.28	0.97
1:A3:1245:ASP:HB2	3:A6:588:SER:HG	1.14	0.97
2:A4:610:THR:HG21	3:A6:506:SER:OG	1.63	0.97
2:A4:635:ARG:NH2	3:A6:603:ASN:H	1.61	0.97
2:A4:716:ASN:N	3:A6:490:PHE:CZ	2.20	0.97
2:A4:852:ASP:H	3:A6:170:THR:H	0.97	0.97
2:A4:859:GLN:NE2	3:A6:176:LEU:HD22	1.78	0.97
3:A6:1385:GLU:OE1	28:Z4:907:LEU:CB	2.12	0.97
11:I1:965:ALA:HB3	20:R1:165:SER:N	1.78	0.97
11:I1:1013:GLU:CB	16:N1:411:GLN:OE1	2.12	0.97
11:I2:887:GLN:NE2	16:N3:396:ILE:HB	1.78	0.97
11:I2:888:GLU:H	16:N3:393:ILE:HG22	1.25	0.97
11:I2:945:LEU:HD12	17:O3:255:GLY:C	1.86	0.97
11:I2:946:THR:C	17:O3:260:LEU:HD23	1.89	0.97
11:I2:983:LEU:C	15:M3:612:PRO:C	2.32	0.97
11:I2:1021:ILE:CG1	16:N3:410:MET:HE3	1.84	0.97
11:I3:1277:LEU:CD1	26:X1:522:MET:CG	2.42	0.97
21:S3:598:LEU:N	21:S4:1154:GLY:O	1.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:432:TYR:CD2	31:c4:539:ILE:CD1	2.47	0.97
26:X2:283:ASP:O	34:i:493:PRO:HD2	1.63	0.97
2:A2:777:LEU:CA	6:D1:678:GLY:CA	2.37	0.97
1:A3:1233:GLN:HB2	3:A6:575:LEU:CD1	1.95	0.97
2:A4:727:ASN:ND2	3:A6:605:TYR:HA	1.80	0.97
2:A4:816:LYS:HD2	3:A6:150:PHE:HA	1.47	0.97
2:A4:868:GLN:HE21	6:D3:608:ILE:CG1	1.76	0.97
2:A4:896:ALA:C	3:A6:178:GLY:CA	2.38	0.97
2:A4:934:TRP:CZ2	4:B6:350:GLU:CB	2.48	0.97
2:A4:978:ASP:N	6:D3:467:PHE:HE1	1.62	0.97
2:A4:1155:ASN:ND2	5:C4:735:ILE:HA	1.80	0.97
3:A6:1395:LYS:HA	28:Z4:920:SER:N	1.79	0.97
3:A6:1398:LYS:CE	28:Z4:918:PHE:HA	1.94	0.97
11:I1:837:MET:HE1	17:O1:242:ARG:CB	1.94	0.97
11:I1:1603:ARG:CZ	11:I2:1662:ARG:HD3	1.95	0.97
11:I1:1669:ARG:NH2	11:I2:1610:VAL:CG1	2.28	0.97
11:I2:921:GLU:O	15:M3:593:ALA:CA	2.13	0.97
11:I2:925:LEU:HD11	20:R3:156:GLY:HA2	1.47	0.97
11:I2:979:ALA:CB	20:R3:167:GLN:HE22	1.78	0.97
11:I2:1110:SER:HB2	16:N3:438:LEU:N	1.79	0.97
11:I2:1543:LEU:HD21	12:J1:300:ILE:O	1.18	0.97
11:I5:1279:THR:HG21	26:X2:520:GLU:O	1.64	0.97
17:O4:110:LEU:HD21	18:P4:321:ILE:H	1.28	0.97
21:S1:660:LEU:N	21:S2:1102:VAL:CG2	2.28	0.97
23:U1:440:ASP:O	31:c2:463:HIS:CD2	2.17	0.97
1:A3:1229:VAL:CB	3:A6:574:ARG:HA	1.92	0.97
2:A4:549:ALA:HA	3:A6:105:GLY:C	1.63	0.97
2:A4:737:PRO:CA	3:A6:89:LEU:HB3	1.94	0.97
2:A4:818:LEU:O	3:A6:526:ILE:HD13	1.65	0.97
2:A4:897:ASN:CA	3:A6:165:PHE:CB	2.43	0.97
2:A4:974:PRO:C	6:D3:499:LEU:HG	1.88	0.97
3:A5:1091:VAL:HG13	11:I5:36:GLU:OE1	1.65	0.97
3:A5:1399:ARG:HH11	28:Z2:909:LEU:CA	1.67	0.97
3:A6:1372:THR:HG23	28:Z4:833:ASP:CB	1.95	0.97
6:D5:238:ALA:O	31:c3:470:ARG:O	1.77	0.97
11:I1:840:LEU:CG	17:O1:244:GLU:HG3	1.84	0.97
11:I1:1059:PRO:N	17:O1:277:GLU:HB2	1.79	0.97
11:I2:884:LEU:HD23	15:M3:595:MET:SD	2.05	0.97
11:I2:896:PRO:O	17:O3:232:LYS:HB3	1.65	0.97
11:I2:900:ARG:HG3	17:O3:232:LYS:CE	1.94	0.97
11:I2:920:PHE:O	15:M3:595:MET:HB3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:944:GLU:HB3	17:O3:256:TYR:CD1	2.00	0.97
11:I2:952:LEU:CD2	15:M3:602:MET:CB	2.43	0.97
17:O4:112:GLY:HA3	18:P1:278:ASN:HB2	0.97	0.97
23:U1:35:PRO:CG	31:c2:556:GLN:HG2	1.95	0.97
23:U2:394:ILE:HG12	31:c4:538:LEU:HB3	0.97	0.97
2:A2:1155:ASN:CB	3:A5:175:GLU:HG3	1.71	0.96
1:A3:1120:ASP:HB2	3:A6:596:ARG:N	1.79	0.96
1:A3:1221:ILE:HG13	3:A6:498:ARG:O	1.63	0.96
1:A3:1285:LEU:HD11	3:A6:581:LYS:CA	1.95	0.96
1:A3:1325:MET:CE	3:A6:126:ARG:NH2	2.28	0.96
2:A4:692:VAL:HG13	3:A6:466:ALA:O	1.60	0.96
2:A4:958:LEU:HD12	4:B6:343:LYS:O	1.64	0.96
11:I1:1021:ILE:CD1	16:N1:410:MET:CA	2.43	0.96
11:I1:1038:ILE:C	15:M1:620:VAL:HG22	1.89	0.96
11:I1:1543:LEU:HD13	11:I2:1677:LYS:HE2	1.43	0.96
11:I2:1045:PHE:C	15:M3:619:ILE:HD11	1.80	0.96
11:I2:1110:SER:CB	16:N3:438:LEU:HG	1.90	0.96
21:S1:684:THR:H	21:S2:1148:TYR:CA	1.77	0.96
26:X2:280:VAL:HG13	34:i:14:TRP:NE1	1.79	0.96
26:X2:287:ASP:HB3	34:i:480[B]:MET:HB2	1.46	0.96
26:X2:305:GLU:HG3	34:i:325:VAL:HG11	0.98	0.96
26:X2:317:PHE:CD2	34:i:477:GLY:O	2.18	0.96
28:Z3:555:LYS:HG2	30:b3:213:ASP:H	1.25	0.96
2:A2:869:ALA:O	6:D1:548:LEU:HD21	1.64	0.96
1:A3:1324:ASP:OD2	3:A6:126:ARG:CD	2.13	0.96
2:A4:496:THR:HG23	3:A6:366:ALA:CB	1.69	0.96
2:A4:537:ALA:HA	3:A6:362:PHE:CZ	1.38	0.96
2:A4:555:VAL:N	3:A6:458:THR:H	1.50	0.96
2:A4:652:PRO:CD	3:A6:542:LEU:HD13	1.94	0.96
2:A4:757:LEU:CD1	3:A6:543:GLY:HA2	1.89	0.96
2:A4:771:ILE:H	3:A6:477:PHE:CB	1.47	0.96
6:D5:234:LEU:CD1	31:c3:552:ARG:HD3	1.94	0.96
9:G1:254:ASN:OD1	15:M2:605:THR:OG1	1.83	0.96
9:G2:257:THR:HG22	17:O4:258:GLU:H	1.26	0.96
11:I1:951:LYS:HB3	17:O1:253:LEU:CD1	1.96	0.96
11:I1:980:ILE:HG13	20:R1:147:LEU:CD1	1.94	0.96
11:I1:987:GLY:HA2	15:M1:614:ASP:HB3	1.47	0.96
11:I1:1114:VAL:HG23	16:N1:435:ALA:CB	1.80	0.96
11:I1:1736:LEU:HD12	11:I2:1607:GLN:HE21	1.28	0.96
11:I2:927:HIS:HB2	15:M3:597:LYS:HB3	1.45	0.96
11:I2:951:LYS:HB3	17:O3:253:LEU:CD2	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:962:ILE:HD13	15:M3:596:ILE:CG2	1.95	0.96
11:I3:1280:PRO:HD3	26:X1:523:LEU:CD1	1.96	0.96
11:I4:819:MET:HB2	26:X3:501:LYS:HD3	1.47	0.96
11:I4:1277:LEU:HD23	26:X3:517:ASP:CB	1.95	0.96
18:P1:279:GLY:N	18:P4:322:LYS:CD	2.16	0.96
22:T1:755:GLU:CB	31:c5:58:ARG:CZ	2.26	0.96
23:U1:406:GLU:H	31:c2:548:VAL:HG22	1.29	0.96
23:U2:83:VAL:CG2	31:c4:557:HIS:ND1	2.26	0.96
23:U2:408:ASP:OD2	31:c4:544:VAL:CA	2.13	0.96
26:X2:332:ILE:CD1	34:i:476:LEU:O	2.09	0.96
28:Z2:411:LEU:HD23	30:b2:251:ILE:HG23	1.43	0.96
28:Z3:522:ASN:H	30:b3:241:PRO:HG3	1.16	0.96
1:A1:831:ALA:O	6:D3:298:ASN:ND2	1.97	0.96
1:A1:1224:PRO:CD	2:A2:731:ILE:HB	1.93	0.96
1:A3:1198:GLU:N	3:A6:678:LEU:CG	2.20	0.96
1:A3:1228:TYR:O	3:A6:576:VAL:N	1.80	0.96
1:A3:1278:PRO:CB	3:A6:624:ASP:H	1.74	0.96
2:A4:710:LEU:HB3	3:A6:480:VAL:HG23	1.44	0.96
2:A4:718:GLU:CG	3:A6:491:VAL:C	2.38	0.96
2:A4:870:HIS:HB2	6:D3:566:PHE:CE1	1.99	0.96
2:A4:946:LYS:HB2	4:B6:350:GLU:CB	1.94	0.96
2:A4:982:THR:HA	6:D3:502:LEU:HD22	1.47	0.96
3:A6:1365:VAL:HA	28:Z4:878:HIS:HA	1.47	0.96
8:F1:1137:GLN:HB2	17:O2:245:GLU:C	1.89	0.96
11:I1:920:PHE:O	15:M1:592:LEU:HA	1.15	0.96
11:I1:1109:LEU:HD12	17:O1:290:TYR:CE2	1.49	0.96
11:I2:992:ILE:CG2	15:M3:607:SER:O	2.07	0.96
11:I2:1020:ALA:CB	16:N3:410:MET:N	2.25	0.96
11:I3:1267:LEU:CG	26:X1:529:TRP:CD2	2.48	0.96
22:T1:752:ALA:O	31:c5:58:ARG:CZ	2.13	0.96
23:U1:402:GLY:N	31:c2:548:VAL:O	1.98	0.96
23:U2:432:TYR:CB	31:c4:539:ILE:CG2	2.43	0.96
26:X2:329:ARG:HE	34:i:475:ILE:CG1	1.65	0.96
28:Z2:524:VAL:N	30:b2:237:LEU:O	1.96	0.96
28:Z2:531:LYS:CD	30:b2:183:LEU:CA	2.36	0.96
2:A2:874:VAL:N	6:D1:568:ARG:CA	2.20	0.96
1:A3:1201:ARG:HD3	2:A4:734:LEU:CD2	1.70	0.96
1:A3:1261:TYR:HB3	3:A6:621:GLN:H	1.19	0.96
1:A3:1306:PRO:HB2	3:A6:715:GLU:CB	1.88	0.96
2:A4:533:ALA:HB3	3:A6:370:PRO:HG3	1.43	0.96
2:A4:754:HIS:HA	3:A6:543:GLY:C	1.89	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:944:SER:O	4:B6:351:GLU:HG3	0.79	0.96
3:A5:172:PRO:HD3	5:C2:730:HIS:ND1	1.79	0.96
3:A5:1376:LEU:H	28:Z2:814:THR:CB	1.79	0.96
6:D5:594:LYS:NZ	24:V2:255:GLN:HE22	1.62	0.96
11:I1:797:LEU:CD1	17:O1:245:GLU:CG	2.43	0.96
11:I1:899:LEU:HD12	17:O1:233:THR:N	1.52	0.96
11:I1:923:GLY:HA2	15:M1:590:LYS:O	1.61	0.96
11:I1:934:LEU:C	15:M1:605:THR:OG1	2.08	0.96
11:I1:980:ILE:CG2	15:M1:618:GLN:O	2.12	0.96
11:I2:890:TYR:N	17:O3:242:ARG:HE	1.40	0.96
11:I2:922:ASP:N	15:M3:592:LEU:C	2.18	0.96
11:I2:1020:ALA:O	16:N3:406:HIS:CG	2.19	0.96
11:I2:1038:ILE:CG1	20:R3:167:GLN:OE1	2.12	0.96
17:O3:158:GLU:HG2	18:P3:316:LEU:N	1.77	0.96
23:U2:16:SER:C	31:c4:479:ILE:O	2.07	0.96
23:U2:34:ASP:OD1	31:c4:561:THR:CB	2.13	0.96
23:U2:48:GLN:HB2	31:c4:472:GLU:CG	1.95	0.96
26:X2:204:PHE:CE1	34:i:444:GLU:HG2	1.99	0.96
26:X2:307:LYS:HZ2	34:i:421:ILE:CG2	1.77	0.96
26:X2:360:PHE:C	34:i:423:LYS:HG3	1.90	0.96
28:Z2:524:VAL:CG1	30:b2:236:THR:O	2.12	0.96
1:A1:868:GLN:O	6:D3:277:ASN:CB	2.13	0.96
1:A1:1223:GLU:HB2	2:A2:676:LEU:HD11	1.45	0.96
1:A3:1194:HIS:NE2	3:A6:679:TYR:O	1.98	0.96
2:A4:682:ARG:HB2	3:A6:431:PHE:HZ	1.19	0.96
2:A4:768:SER:HB3	3:A6:477:PHE:CE2	2.00	0.96
2:A4:976:LEU:CB	6:D3:472:PHE:CD2	2.47	0.96
2:A4:1114:ILE:HD11	5:C4:731:LYS:HB2	1.44	0.96
3:A5:220:VAL:HG13	5:C2:738:ASP:C	1.90	0.96
3:A5:1029:ILE:H	11:I5:68:ILE:CA	1.75	0.96
11:I1:924:ILE:CD1	15:M1:595:MET:CB	2.39	0.96
11:I1:992:ILE:HD11	15:M1:604:ASN:O	1.62	0.96
11:I1:1109:LEU:HG	16:N1:438:LEU:HD23	1.45	0.96
11:I2:890:TYR:HA	17:O3:238:ALA:C	1.90	0.96
11:I3:1275:SER:HB2	26:X1:508:LEU:HD11	1.47	0.96
26:X2:280:VAL:HG22	34:i:14:TRP:NE1	1.78	0.96
26:X2:303:PHE:C	34:i:418:LEU:CD1	2.30	0.96
28:Z2:401:THR:HA	30:b2:253:SER:N	1.80	0.96
28:Z4:401:THR:HA	30:b4:253:SER:N	1.80	0.96
1:A3:1261:TYR:CG	3:A6:621:GLN:CD	2.18	0.96
1:A3:1281:LEU:HD13	3:A6:577:ASP:HB3	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:HG12	3:A6:492:SER:C	1.88	0.96
2:A4:758:HIS:O	3:A6:535:PHE:CD1	2.17	0.96
2:A4:816:LYS:HG2	3:A6:157:TRP:CD1	2.00	0.96
2:A4:975:GLU:CA	6:D3:501:LEU:HB2	1.96	0.96
2:A4:992:TYR:HB3	6:D3:238:ALA:O	1.15	0.96
3:A5:996:ASN:CB	11:I5:56:ARG:O	2.08	0.96
3:A5:1312:ARG:NE	28:Z2:832:PHE:O	1.97	0.96
8:F1:1265:GLN:CA	17:O2:265:ASN:HB2	1.96	0.96
9:G2:256:GLN:HB3	17:O4:261:LYS:HB3	1.48	0.96
11:I2:883:ALA:HB1	17:O3:243:LEU:O	1.63	0.96
11:I2:951:LYS:HE2	16:N3:404:GLU:HB2	1.45	0.96
11:I2:983:LEU:HD22	15:M3:617:THR:OG1	0.78	0.96
21:S1:679:ILE:O	21:S2:1071:LEU:CD2	2.13	0.96
23:U2:437:ASN:HB3	31:c4:195:ILE:HB	1.47	0.96
26:X2:365:ILE:HG23	34:i:323:ILE:HD11	1.46	0.96
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG1	1.94	0.96
1:A3:1196:GLU:HA	3:A6:608:VAL:HG12	0.97	0.96
1:A3:1241:ARG:CD	3:A6:597:GLU:OE1	2.14	0.96
1:A3:1244:LEU:HD22	3:A6:633:MET:HE3	0.98	0.96
1:A3:1284:ASN:C	3:A6:581:LYS:NZ	2.24	0.96
2:A4:550:VAL:C	3:A6:455:LEU:CD2	2.30	0.96
2:A4:610:THR:HG1	3:A6:506:SER:HB2	1.28	0.96
2:A4:615:LEU:HD21	3:A6:499:ILE:CD1	1.95	0.96
2:A4:726:ALA:C	3:A6:575:LEU:HD22	1.90	0.96
2:A4:735:ALA:O	3:A6:92:ASP:HB3	1.64	0.96
2:A4:754:HIS:CD2	3:A6:538:ALA:CA	2.38	0.96
2:A4:827:ILE:HG22	3:A6:134:VAL:N	1.79	0.96
2:A4:873:PRO:CG	6:D3:572:GLU:OE2	2.14	0.96
3:A6:442:ARG:NE	6:D3:692:LEU:CD2	2.28	0.96
8:F1:1138:TRP:N	17:O2:244:GLU:O	1.99	0.96
9:G1:254:ASN:CG	15:M2:605:THR:OG1	2.08	0.96
11:I1:951:LYS:HD2	16:N1:400:LEU:O	1.64	0.96
11:I1:1021:ILE:N	16:N1:406:HIS:O	1.70	0.96
11:I1:1046:HIS:HB3	17:O1:283:ALA:HB3	1.43	0.96
11:I1:1607:GLN:NE2	11:I2:1736:LEU:HD12	1.79	0.96
11:I2:925:LEU:CD1	20:R3:156:GLY:CA	2.43	0.96
11:I2:939:ASN:CG	17:O3:265:ASN:OD1	2.08	0.96
11:I2:952:LEU:HD13	17:O3:250:LEU:HD13	1.35	0.96
17:O3:151:LEU:HD23	18:P3:325:ILE:CG1	1.49	0.96
23:U2:82:LEU:H	31:c4:553:LEU:HD21	1.15	0.96
26:X2:361:LEU:HD21	34:i:441:LEU:HD11	0.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:368:LEU:HB3	34:i:437:SER:O	1.66	0.96
28:Z2:524:VAL:N	30:b2:238:ASN:CB	2.03	0.96
28:Z2:526:ARG:C	30:b2:206:ASN:OD1	2.07	0.96
28:Z4:527:SER:HB2	30:b4:204:GLU:HG3	1.46	0.96
2:A2:1145:GLY:N	3:A5:129:ASN:HD22	1.61	0.96
1:A3:1229:VAL:HA	3:A6:574:ARG:CB	1.58	0.96
2:A4:553:ASP:OD1	3:A6:435:PRO:HD3	1.65	0.96
2:A4:715:GLU:HA	3:A6:515:THR:H	1.28	0.96
2:A4:754:HIS:O	3:A6:538:ALA:N	1.91	0.96
2:A4:854:VAL:CG1	3:A6:174:PRO:CD	2.39	0.96
2:A4:880:ALA:CB	6:D3:558:LYS:HE3	1.96	0.96
2:A4:974:PRO:CA	6:D3:499:LEU:CD1	2.44	0.96
3:A5:1024:ASP:CG	11:I5:96:GLU:C	2.34	0.96
3:A5:1374:ALA:HB3	28:Z2:824:PHE:H	1.16	0.96
3:A6:486:GLN:HB3	6:D3:675:ARG:HG3	1.45	0.96
6:D5:243:LYS:HB3	31:c3:470:ARG:CZ	1.96	0.96
11:I1:1024:PHE:HB3	16:N1:406:HIS:CG	2.01	0.96
11:I4:1276:GLN:HB3	26:X3:516:ASN:O	1.65	0.96
23:U2:45:ALA:N	31:c4:473:THR:OG1	1.89	0.96
23:U2:437:ASN:C	31:c4:428:ARG:CZ	2.39	0.96
26:X2:365:ILE:HG22	34:i:424:LEU:HG	1.46	0.96
28:Z1:526:ARG:C	30:b1:206:ASN:OD1	2.07	0.96
1:A3:1123:GLU:CD	3:A6:599:ARG:HD2	1.89	0.96
1:A3:1230:TYR:CD2	2:A4:726:ALA:O	2.17	0.96
2:A4:735:ALA:C	3:A6:685:ARG:NH1	2.07	0.96
2:A4:854:VAL:HG11	3:A6:171:HIS:CE1	2.01	0.96
2:A4:976:LEU:HB3	6:D3:472:PHE:CD2	2.01	0.96
2:A4:983:LEU:CD1	6:D3:553:PHE:CB	2.37	0.96
11:I1:888:GLU:CB	17:O1:242:ARG:NH1	2.28	0.96
11:I1:939:ASN:O	17:O1:262:ASP:C	2.08	0.96
11:I1:965:ALA:CB	20:R1:163:LEU:O	2.13	0.96
11:I1:1021:ILE:HG23	16:N1:406:HIS:HE1	1.02	0.96
11:I2:899:LEU:HD12	17:O3:234:LEU:H	1.29	0.96
11:I2:968:PRO:C	20:R3:149:ARG:HH12	1.72	0.96
11:I2:1543:LEU:O	12:J1:300:ILE:HG23	1.64	0.96
21:S1:668:ILE:C	21:S2:1146:ALA:CB	2.33	0.96
26:X2:284:ALA:N	34:i:479:THR:OG1	1.99	0.96
26:X2:361:LEU:CD1	34:i:445:GLN:HE21	1.72	0.96
28:Z1:407:GLY:O	30:b1:251:ILE:CG1	2.14	0.96
2:A2:1135:ARG:HG3	3:A5:138:LEU:CD1	1.93	0.96
2:A2:1147:ILE:C	3:A5:172:PRO:HB2	1.83	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1148:ARG:O	3:A5:173:ASN:HB2	1.64	0.96
1:A3:1248:ILE:CG1	3:A6:587:VAL:CG1	1.86	0.96
2:A4:717:VAL:HG21	3:A6:476:PHE:HB3	1.47	0.96
2:A4:761:GLN:OE1	3:A6:547:GLU:N	1.98	0.96
2:A4:777:LEU:C	6:D3:678:GLY:CA	2.25	0.96
2:A4:886:PHE:CA	3:A6:175:GLU:HB3	1.96	0.96
3:A5:157:TRP:N	5:C2:741:THR:HG21	1.78	0.96
3:A5:220:VAL:HG13	5:C2:739:MET:N	1.80	0.96
3:A5:1024:ASP:CB	11:I5:98:ALA:CB	2.40	0.96
3:A5:1374:ALA:O	28:Z2:814:THR:C	1.96	0.96
3:A6:445:THR:OG1	6:D3:718:LYS:HE3	1.64	0.96
3:A6:446:LEU:O	6:D3:730:ARG:NH2	1.98	0.96
11:I1:882:LYS:N	17:O1:249:ARG:HD2	1.79	0.96
11:I1:899:LEU:HD12	17:O1:233:THR:H	1.12	0.96
11:I1:924:ILE:HD13	15:M1:595:MET:HB3	1.44	0.96
11:I1:935:GLY:H	15:M1:605:THR:N	1.62	0.96
11:I1:1607:GLN:HE21	11:I2:1736:LEU:CD1	1.75	0.96
11:I2:945:LEU:H	17:O3:259:ASP:HB3	1.26	0.96
11:I2:966:TRP:CA	20:R3:154:ALA:H	1.78	0.96
21:S3:678:GLU:N	21:S4:1141:GLU:O	1.98	0.96
23:U2:391:HIS:HB2	31:c4:477:GLU:HG2	1.46	0.96
23:U2:412:LEU:HA	31:c4:541:ARG:NH2	1.81	0.96
28:Z3:401:THR:HA	30:b3:253:SER:N	1.81	0.96
28:Z3:528:ILE:N	30:b3:208:ASN:ND2	2.05	0.96
1:A1:870:HIS:CA	6:D3:279:HIS:HB3	1.95	0.95
1:A1:1223:GLU:HG3	2:A2:734:LEU:HD11	1.48	0.95
2:A2:1148:ARG:O	3:A5:173:ASN:CB	2.10	0.95
1:A3:1123:GLU:HB3	3:A6:599:ARG:CD	1.83	0.95
1:A3:1237:LEU:HD21	3:A6:119:TRP:NE1	1.53	0.95
1:A3:1258:VAL:O	3:A6:621:GLN:CA	2.14	0.95
2:A4:701:ILE:HD11	3:A6:466:ALA:H	0.81	0.95
3:A5:1394:VAL:O	28:Z2:874:ASN:HA	1.65	0.95
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB2	1.81	0.95
11:I1:1038:ILE:O	15:M1:620:VAL:HG22	1.65	0.95
11:I2:833:PHE:HE2	17:O3:238:ALA:O	1.47	0.95
11:I2:966:TRP:C	20:R3:153:GLN:CB	2.39	0.95
11:I2:1029:LEU:CB	20:R3:174:ARG:HG3	1.96	0.95
17:O4:110:LEU:HD22	18:P4:321:ILE:CG1	1.95	0.95
23:U1:198:GLU:CG	31:c1:622:ILE:CD1	2.07	0.95
23:U1:431:ILE:HG12	31:c2:469:SER:CB	1.96	0.95
23:U2:68:TRP:CZ2	31:c4:470:ARG:NH2	2.33	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:440:ASP:H	31:c4:428:ARG:HD3	1.19	0.95
28:Z3:524:VAL:CG1	30:b3:236:THR:HB	1.86	0.95
2:A2:874:VAL:H	6:D1:568:ARG:HA	0.81	0.95
2:A2:1151:THR:HA	5:C2:733:LEU:HD12	0.95	0.95
2:A4:781:ARG:NH2	6:D3:633:LYS:HD2	1.79	0.95
2:A4:793:SER:CB	3:A6:146:LYS:HE2	1.95	0.95
3:A5:1026:PRO:CG	11:I5:73:TYR:CG	2.49	0.95
6:D5:783:SER:OG	31:c4:305:SER:HA	1.65	0.95
11:I1:882:LYS:N	17:O1:249:ARG:HB3	1.71	0.95
11:I1:890:TYR:CZ	17:O1:240:GLY:N	2.19	0.95
11:I1:894:VAL:HG21	17:O1:238:ALA:HB3	1.43	0.95
11:I1:931:VAL:HG21	15:M1:604:ASN:OD1	1.63	0.95
11:I2:931:VAL:O	15:M3:605:THR:HG23	1.65	0.95
11:I2:1017:VAL:HG23	16:N3:411:GLN:C	1.90	0.95
11:I2:1040:HIS:N	20:R3:170:LEU:HD21	1.80	0.95
22:T1:736:LEU:HB3	31:c5:19:THR:HG22	0.99	0.95
23:U1:202:LEU:HD13	31:c1:571:GLN:CG	1.90	0.95
23:U2:432:TYR:HD1	31:c4:464:LEU:CA	1.80	0.95
26:X2:291:LEU:CD1	34:i:404:ARG:HD3	1.95	0.95
26:X2:363:TYR:CD2	34:i:419:THR:CG2	2.47	0.95
28:Z2:407:GLY:O	30:b2:251:ILE:CG1	2.14	0.95
2:A2:1094:ILE:CG1	6:D2:759:GLN:OE1	2.13	0.95
1:A3:1049:PHE:CA	6:D3:816:VAL:HG21	1.91	0.95
1:A3:1200:ARG:HH11	3:A6:608:VAL:HB	1.20	0.95
1:A3:1231:VAL:N	3:A6:576:VAL:N	2.03	0.95
1:A3:1233:GLN:HB3	3:A6:601:PHE:HE1	0.81	0.95
2:A4:84:VAL:HG13	3:A6:99:ASP:OD2	1.65	0.95
2:A4:91:LEU:HD22	3:A6:430:GLN:HE22	1.30	0.95
2:A4:614:ALA:O	3:A6:511:PHE:CZ	1.80	0.95
2:A4:672:ARG:HG3	3:A6:96:PRO:CG	1.46	0.95
2:A4:680:LEU:N	3:A6:102:CYS:SG	2.38	0.95
2:A4:712:THR:N	3:A6:462:LEU:CD2	2.29	0.95
2:A4:854:VAL:CG1	3:A6:171:HIS:ND1	1.81	0.95
2:A4:868:GLN:C	6:D3:598:ILE:HB	1.89	0.95
11:I1:837:MET:HE1	17:O1:242:ARG:CA	1.94	0.95
11:I1:881:ILE:H	17:O1:249:ARG:C	1.73	0.95
11:I1:894:VAL:HG23	17:O1:238:ALA:HB3	1.44	0.95
11:I1:992:ILE:C	15:M1:607:SER:O	2.05	0.95
11:I2:954:GLU:HB3	16:N3:403:VAL:CA	1.96	0.95
11:I2:966:TRP:CA	20:R3:154:ALA:N	2.29	0.95
18:P1:279:GLY:N	18:P4:322:LYS:HD3	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:394:ILE:CG2	31:c4:535:VAL:CB	2.44	0.95
26:X2:313:LEU:HA	34:i:471:ILE:HG22	1.47	0.95
26:X2:361:LEU:CD2	34:i:441:LEU:CD1	2.33	0.95
26:X2:365:ILE:HG12	34:i:421:ILE:CG2	1.96	0.95
28:Z3:524:VAL:HG21	30:b3:236:THR:O	1.18	0.95
1:A1:834:GLU:HB2	6:D3:302:PRO:HB3	1.47	0.95
2:A2:865:ALA:H	6:D1:607:PRO:HD2	1.12	0.95
1:A3:1189:LEU:HB3	3:A6:641:ALA:CB	1.55	0.95
1:A3:1230:TYR:HE1	3:A6:610:THR:C	1.74	0.95
2:A4:93:ASP:OD1	3:A6:429:LEU:HD23	1.64	0.95
2:A4:717:VAL:CG2	3:A6:512:GLU:OE1	2.14	0.95
2:A4:720:LEU:CD1	3:A6:510:TYR:CD1	2.48	0.95
2:A4:777:LEU:CB	3:A6:481:ARG:HH12	1.78	0.95
2:A4:817:VAL:CG1	3:A6:146:LYS:HG2	1.97	0.95
3:A5:234:LEU:H	5:C2:737:LYS:HB2	1.28	0.95
4:B5:344:ALA:HB2	5:C2:740:ARG:CZ	1.95	0.95
5:C1:732:LYS:CE	11:I1:1225:LYS:HD2	1.95	0.95
11:I1:918:SER:HB2	16:N1:385:MET:HG2	1.48	0.95
11:I1:1110:SER:CB	16:N1:434:LEU:O	2.14	0.95
11:I1:1604:ALA:N	11:I2:1739:GLU:O	1.79	0.95
11:I2:947:LEU:HD22	16:N3:411:GLN:HG2	1.48	0.95
11:I3:1273:GLU:CG	26:X1:535:ALA:HB2	1.96	0.95
11:I4:819:MET:HB2	26:X3:501:LYS:HZ3	0.95	0.95
26:X2:303:PHE:O	34:i:418:LEU:HD13	1.66	0.95
26:X2:305:GLU:N	34:i:325:VAL:HG21	1.34	0.95
26:X2:318:GLY:CA	34:i:475:ILE:HG23	1.96	0.95
28:Z1:555:LYS:HG3	30:b1:233:TRP:HE3	1.32	0.95
28:Z2:443:LEU:HD21	30:b2:250:GLY:CA	1.97	0.95
28:Z4:524:VAL:HA	30:b4:236:THR:CG2	1.96	0.95
28:Z4:534:ASP:CA	30:b4:164:CYS:CB	2.45	0.95
1:A3:1203:TYR:N	3:A6:91:LEU:CG	2.14	0.95
2:A4:85:VAL:HG11	3:A6:395:MET:HB2	1.46	0.95
2:A4:879:LEU:CB	6:D3:564:ASN:CG	2.38	0.95
2:A4:942:ASN:HB3	4:B6:355:PRO:O	1.67	0.95
3:A6:1327:VAL:CG1	28:Z4:961:PHE:CB	2.43	0.95
3:A6:1389:SER:CB	28:Z4:907:LEU:HA	1.95	0.95
11:I1:842:ASN:HA	15:M1:587:GLU:CG	1.96	0.95
11:I2:900:ARG:N	17:O3:232:LYS:CB	2.29	0.95
11:I2:950:LEU:HD22	16:N3:406:HIS:HE2	1.21	0.95
11:I2:976:ARG:NH1	15:M3:622:VAL:CG2	2.28	0.95
11:I2:988:GLU:O	15:M3:608:LYS:HE3	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1039:ALA:HB3	20:R3:170:LEU:HG	1.13	0.95
11:I3:1273:GLU:H	26:X1:526:CYS:N	1.50	0.95
17:O3:147:ALA:CB	18:P3:328:PRO:CB	2.45	0.95
28:Z2:401:THR:C	30:b2:254:SER:HB3	1.80	0.95
28:Z2:410:ASN:HD21	30:b2:252:ALA:CB	1.73	0.95
2:A2:826:ASN:OD1	6:D1:633:LYS:HB3	1.63	0.95
2:A2:1122:LEU:CD1	3:A5:135:PHE:HD2	1.77	0.95
2:A2:1135:ARG:HD2	3:A5:147:LEU:HD21	0.97	0.95
1:A3:1098:ARG:HD3	11:I2:1478:VAL:HG22	1.44	0.95
1:A3:1131:ILE:HA	3:A6:653:ARG:NH2	1.81	0.95
1:A3:1204:TRP:HB3	3:A6:95:TYR:CB	1.92	0.95
1:A3:1229:VAL:CB	3:A6:574:ARG:CA	2.41	0.95
2:A4:795:GLN:HB3	3:A6:247:ASP:OD2	1.66	0.95
2:A4:815:ALA:O	3:A6:527:GLU:CB	2.13	0.95
2:A4:909:LYS:HG3	6:D3:555:ARG:NH1	1.76	0.95
3:A6:132:ASP:OD2	6:D3:607:PRO:HD3	1.51	0.95
3:A6:1398:LYS:HD2	28:Z4:918:PHE:C	1.91	0.95
9:G2:263:MET:HE1	17:O4:263:GLN:OE1	1.64	0.95
11:I1:846:ILE:HG22	17:O1:247:TRP:CE2	2.00	0.95
11:I1:846:ILE:HG12	15:M1:591:ASP:HA	0.98	0.95
11:I1:966:TRP:N	20:R1:165:SER:OG	1.99	0.95
11:I1:985:ARG:N	15:M1:613:ASP:CA	2.29	0.95
11:I1:1034:ASP:HB2	15:M1:630:LEU:HD13	1.46	0.95
11:I1:1037:THR:CG2	20:R1:169:GLY:CA	2.34	0.95
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CG	1.80	0.95
11:I2:895:ARG:HA	17:O3:236:ASP:H	1.15	0.95
11:I2:948:ALA:HB1	17:O3:253:LEU:O	1.53	0.95
11:I2:980:ILE:CD1	20:R3:147:LEU:CA	2.45	0.95
11:I2:1046:HIS:C	17:O3:284:LYS:HG3	1.84	0.95
17:O4:111:TYR:HD1	18:P4:325:ILE:CD1	1.78	0.95
28:Z1:411:LEU:HD23	30:b1:251:ILE:HG23	1.43	0.95
28:Z1:524:VAL:HG21	30:b1:236:THR:O	1.18	0.95
2:A2:869:ALA:HB2	6:D1:574:VAL:HG22	1.45	0.95
1:A3:1199:GLN:O	3:A6:91:LEU:HD23	1.67	0.95
1:A3:1204:TRP:HB2	2:A4:731:ILE:CG2	1.93	0.95
2:A4:598:VAL:HG21	3:A6:504:PRO:HD3	1.48	0.95
2:A4:682:ARG:CG	3:A6:431:PHE:CD1	2.46	0.95
2:A4:777:LEU:HB3	3:A6:481:ARG:NH1	1.80	0.95
2:A4:886:PHE:HB3	3:A6:175:GLU:HB3	1.38	0.95
2:A4:976:LEU:CG	6:D3:472:PHE:CD2	2.49	0.95
2:A4:983:LEU:CB	6:D3:528:PHE:CE1	2.35	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1151:THR:HA	5:C4:733:LEU:HD12	0.96	0.95
3:A5:1029:ILE:HA	11:I5:69:GLY:O	1.66	0.95
3:A6:444:ARG:H	6:D3:737:PHE:HE2	0.95	0.95
11:I1:957:SER:O	20:R1:168:LEU:CG	2.13	0.95
11:I1:996:LEU:HD22	16:N1:410:MET:HE2	0.96	0.95
11:I2:850:ILE:CG2	15:M3:598:GLU:HG2	1.94	0.95
11:I2:1036:PRO:HG3	17:O3:287:LEU:CG	1.96	0.95
17:O3:148:ARG:NE	18:P3:325:ILE:CG2	2.30	0.95
17:O3:158:GLU:HG3	18:P3:316:LEU:H	1.03	0.95
23:U2:26:GLN:HB2	31:c4:491:VAL:HB	1.46	0.95
23:U2:39:ILE:CD1	31:c4:557:HIS:N	2.29	0.95
23:U2:430:PRO:CB	31:c4:458:LYS:CA	1.75	0.95
23:U3:278:GLN:CD	25:W4:189:SER:C	2.34	0.95
26:X2:336:LEU:CG	34:i:478:PRO:HD3	1.95	0.95
28:Z2:524:VAL:HA	30:b2:236:THR:CG2	1.96	0.95
1:A1:1201:ARG:N	2:A2:729:SER:CA	2.09	0.95
2:A2:223:THR:C	6:D1:709:ARG:NH2	2.24	0.95
1:A3:1021:LEU:HD13	6:D3:816:VAL:HA	0.97	0.95
1:A3:1192:GLN:H	3:A6:615:LEU:HB2	1.16	0.95
1:A3:1231:VAL:CG2	3:A6:616:ALA:HB3	1.96	0.95
2:A4:753:GLU:HG3	3:A6:543:GLY:N	1.49	0.95
2:A4:762:LYS:O	3:A6:471:PHE:CB	2.13	0.95
2:A4:880:ALA:CA	6:D3:558:LYS:HE3	1.96	0.95
2:A4:893:LEU:HD11	3:A6:175:GLU:C	1.90	0.95
2:A4:974:PRO:HA	6:D3:499:LEU:HD12	1.47	0.95
2:A4:978:ASP:CA	6:D3:476:VAL:HG23	1.89	0.95
3:A5:1092:ASN:HA	11:I5:33:THR:HG22	1.45	0.95
3:A5:1098:ARG:HD3	11:I5:29:GLN:HE21	1.28	0.95
3:A5:1368:GLN:HB2	28:Z2:841:ALA:HA	1.48	0.95
3:A5:1391:ARG:HA	28:Z2:871:HIS:HA	1.44	0.95
3:A5:1394:VAL:O	28:Z2:874:ASN:CA	2.15	0.95
3:A6:842:ARG:HH22	8:F2:777:ASN:CG	1.73	0.95
11:I1:955:LYS:HD2	16:N1:401:THR:N	1.80	0.95
11:I1:983:LEU:N	15:M1:621:ARG:CZ	2.28	0.95
11:I1:1041:GLN:HB2	15:M1:620:VAL:N	1.80	0.95
11:I2:911:PRO:HB3	15:M3:584:GLN:HE22	1.24	0.95
11:I2:995:SER:HA	17:O3:267:ALA:O	1.66	0.95
26:X2:283:ASP:O	34:i:479:THR:HA	1.66	0.95
26:X2:291:LEU:CA	34:i:415:SER:HB3	1.96	0.95
26:X2:367:SER:HA	34:i:366:PHE:HE1	1.27	0.95
28:Z1:535:ILE:HG12	30:b1:182:PRO:CG	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1135:ARG:NH1	3:A5:167:TRP:CH2	2.18	0.95
1:A3:1233:GLN:CB	3:A6:575:LEU:HD12	1.96	0.95
1:A3:1318:TRP:CH2	3:A6:624:ASP:OD1	2.19	0.95
1:A3:1332:ARG:HG3	6:D3:636:ASP:HB3	1.36	0.95
2:A4:802:TYR:CE1	3:A6:397:LEU:CD2	2.50	0.95
2:A4:864:ARG:HB3	6:D3:608:ILE:N	1.82	0.95
3:A5:233:THR:HA	5:C2:737:LYS:N	1.81	0.95
3:A5:1033:GLN:OE1	11:I5:71:GLU:HA	1.67	0.95
3:A6:443:ILE:N	6:D3:691:LEU:HD11	1.74	0.95
11:I1:950:LEU:CB	16:N1:407:ALA:HB2	1.90	0.95
11:I1:959:SER:HA	16:N1:395:GLU:HB3	0.95	0.95
11:I1:1036:PRO:N	15:M1:623:LEU:O	2.00	0.95
11:I1:1049:LEU:CD2	20:R1:146:LEU:CD2	2.45	0.95
11:I1:1609:GLY:CA	12:J2:295:TYR:HE1	1.69	0.95
11:I2:1109:LEU:CG	17:O3:290:TYR:HE2	1.68	0.95
23:U1:395:CYS:C	31:c2:552:ARG:HH22	1.75	0.95
26:X2:188:MET:C	34:i:440:GLU:HG3	1.91	0.95
26:X2:329:ARG:HH21	34:i:475:ILE:HG12	1.14	0.95
28:Z4:528:ILE:HG13	30:b4:210:ARG:CZ	1.95	0.95
2:A2:225:THR:HG21	6:D1:706:HIS:CB	1.96	0.95
2:A2:780:GLU:HA	6:D1:674:TYR:HA	1.48	0.95
1:A3:1201:ARG:HD3	2:A4:734:LEU:HD23	1.48	0.95
1:A3:1228:TYR:CD1	3:A6:551:GLN:CG	2.50	0.95
1:A3:1255:LEU:N	3:A6:634:ASP:CB	2.25	0.95
1:A3:1311:ARG:HG2	3:A6:712:THR:CG2	1.95	0.95
1:A3:1332:ARG:CB	3:A6:127:HIS:CE1	2.50	0.95
2:A4:90:GLN:H	3:A6:407:SER:N	1.65	0.95
2:A4:691:LYS:CB	3:A6:316:ARG:HD3	1.85	0.95
2:A4:780:GLU:CG	3:A6:524:ARG:N	1.76	0.95
2:A4:978:ASP:CB	6:D3:476:VAL:HG22	1.92	0.95
3:A5:1369:ILE:CG1	28:Z2:832:PHE:H	1.79	0.95
3:A6:442:ARG:HD2	6:D3:692:LEU:N	1.82	0.95
9:G1:256:GLN:HB2	16:N2:403:VAL:HG12	1.48	0.95
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD22	1.67	0.95
11:I1:1739:GLU:C	11:I2:1604:ALA:CA	2.28	0.95
11:I2:840:LEU:CD2	17:O3:247:TRP:CD1	2.50	0.95
11:I2:952:LEU:CD2	15:M3:602:MET:HB2	1.96	0.95
11:I2:961:ARG:NH2	16:N3:388:LYS:CA	2.30	0.95
17:O3:155:VAL:HB	18:P3:321:ILE:CG2	1.95	0.95
23:U1:198:GLU:OE1	31:c1:637:ASP:OD1	1.84	0.95
23:U2:115:GLN:HG3	31:c4:92:THR:OG1	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:435:PHE:HA	31:c4:536:CYS:SG	2.07	0.95
2:A4:684:VAL:HB	3:A6:395:MET:SD	2.07	0.94
2:A4:690:ALA:CB	3:A6:398:THR:HA	1.97	0.94
2:A4:878:LEU:CD2	6:D3:607:PRO:HG2	1.94	0.94
2:A4:895:PRO:HA	4:B6:344:ALA:HB2	1.50	0.94
11:I1:978:LYS:NZ	20:R1:154:ALA:C	2.15	0.94
11:I2:841:PHE:C	15:M3:591:ASP:HB2	1.92	0.94
11:I2:874:LEU:HA	17:O3:255:GLY:HA3	1.05	0.94
11:I2:896:PRO:N	17:O3:233:THR:O	1.87	0.94
11:I2:990:GLU:C	17:O3:272:SER:HA	1.92	0.94
11:I4:1274:HIS:H	26:X3:524:SER:CB	1.80	0.94
17:O1:103:VAL:HG13	18:P1:326:GLN:HE21	0.96	0.94
23:U2:415:THR:CB	31:c4:541:ARG:CZ	2.41	0.94
26:X2:191:ILE:CG2	34:i:443:THR:HG22	1.96	0.94
26:X2:363:TYR:CE2	34:i:419:THR:CG2	2.50	0.94
28:Z3:527:SER:HB2	30:b3:204:GLU:HG3	1.47	0.94
1:A1:870:HIS:CB	6:D3:279:HIS:CB	2.46	0.94
2:A4:553:ASP:OD2	3:A6:432:VAL:HG12	1.65	0.94
2:A4:710:LEU:CA	3:A6:480:VAL:CG2	2.45	0.94
2:A4:855:THR:CG2	3:A6:167:TRP:C	2.40	0.94
11:I1:894:VAL:CG2	17:O1:238:ALA:CB	2.44	0.94
11:I1:1104:LEU:HD13	16:N1:433:GLU:HA	0.96	0.94
11:I2:887:GLN:NE2	16:N3:393:ILE:O	2.00	0.94
11:I2:890:TYR:HA	17:O3:239:GLN:N	1.81	0.94
11:I2:942:HIS:CA	17:O3:259:ASP:O	2.15	0.94
11:I2:994:ALA:O	17:O3:267:ALA:HB1	1.66	0.94
11:I2:1037:THR:CG2	20:R3:173:LEU:CD2	2.45	0.94
11:I2:1037:THR:CG2	20:R3:173:LEU:HD22	1.97	0.94
11:I3:1267:LEU:CD2	26:X1:529:TRP:CH2	2.47	0.94
11:I5:1276:GLN:O	26:X2:518:ASP:HA	1.65	0.94
17:O3:162:LYS:CG	18:P3:315:GLU:OE1	2.14	0.94
23:U2:39:ILE:O	31:c4:475:ALA:N	1.99	0.94
23:U2:39:ILE:H	31:c4:556:GLN:HA	1.28	0.94
26:X2:311:LEU:CA	34:i:401:CYS:H	1.80	0.94
26:X2:363:TYR:O	34:i:403:SER:HB3	1.67	0.94
28:Z1:528:ILE:HG13	30:b1:210:ARG:CZ	1.95	0.94
2:A2:869:ALA:HB2	6:D1:574:VAL:HG23	1.26	0.94
2:A2:908:LEU:C	6:D1:552:TYR:HE1	1.73	0.94
1:A3:1166:LEU:N	3:A6:648:TYR:CE2	2.35	0.94
1:A3:1204:TRP:HB3	3:A6:95:TYR:HB2	1.47	0.94
2:A4:682:ARG:HD3	3:A6:106:ALA:C	1.92	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:703:SER:OG	3:A6:399:ASP:CA	2.13	0.94
2:A4:714:GLN:C	3:A6:492:SER:HB3	1.92	0.94
2:A4:826:ASN:ND2	3:A6:565:THR:HB	1.82	0.94
3:A5:221:SER:N	5:C2:738:ASP:HB3	1.83	0.94
3:A5:1026:PRO:CG	11:I5:73:TYR:HD1	1.50	0.94
3:A5:1359:LEU:HB2	28:Z2:878:HIS:H	1.13	0.94
3:A6:1391:ARG:HH12	28:Z4:873:LEU:CB	1.80	0.94
8:F1:1261:TYR:HD2	17:O2:259:ASP:OD2	1.31	0.94
8:F1:1265:GLN:C	17:O2:265:ASN:CB	2.40	0.94
9:G1:255:LEU:HD12	17:O2:257:ALA:HB3	0.95	0.94
11:I1:982:GLN:HG3	15:M1:621:ARG:HH22	1.30	0.94
11:I1:984:GLU:HB2	15:M1:618:GLN:HG3	1.50	0.94
11:I1:1055:GLU:HB3	17:O1:280:GLU:HB2	1.49	0.94
11:I1:1106:LYS:HB2	16:N1:440:GLU:OE2	1.67	0.94
11:I2:833:PHE:CE2	17:O3:242:ARG:N	2.36	0.94
11:I2:955:LYS:HZ2	17:O3:249:ARG:NH2	1.64	0.94
11:I2:1033:PRO:HB2	20:R3:177:LEU:HG	1.46	0.94
11:I2:1058:GLY:HA3	17:O3:277:GLU:O	1.66	0.94
21:S3:1052:LEU:HD21	21:S3:1073:ILE:HD13	1.50	0.94
23:U2:394:ILE:HD13	31:c4:535:VAL:O	1.62	0.94
23:U2:433:ALA:HB2	31:c4:462:HIS:H	1.28	0.94
28:Z1:401:THR:C	30:b1:254:SER:HB3	1.80	0.94
28:Z1:527:SER:HB2	30:b1:204:GLU:HG3	1.47	0.94
28:Z1:531:LYS:CD	30:b1:183:LEU:CA	2.36	0.94
28:Z3:411:LEU:HD23	30:b3:251:ILE:HG23	1.43	0.94
28:Z3:557:CYS:C	30:b3:235:LEU:O	2.10	0.94
2:A2:965:LYS:CE	6:D1:196:ILE:C	2.39	0.94
2:A2:970:PHE:H	6:D1:196:ILE:HD11	1.32	0.94
2:A2:977:VAL:CA	6:D1:496:LEU:CD1	2.42	0.94
2:A2:1160:GLN:CG	3:A5:165:PHE:HB3	1.95	0.94
1:A3:1231:VAL:HG21	3:A6:616:ALA:CB	1.96	0.94
1:A3:1274:ASP:CB	3:A6:556:PRO:CD	2.39	0.94
2:A4:87:GLN:CG	3:A6:408:ALA:N	2.29	0.94
2:A4:642:ARG:CG	3:A6:501:VAL:CG1	2.37	0.94
2:A4:642:ARG:CG	3:A6:501:VAL:CG2	2.46	0.94
2:A4:652:PRO:HB3	3:A6:542:LEU:HD12	0.96	0.94
2:A4:675:ALA:HB3	3:A6:508:LEU:HD13	1.48	0.94
2:A4:691:LYS:NZ	3:A6:330:LEU:HG	1.83	0.94
2:A4:897:ASN:HD22	3:A6:165:PHE:HB3	1.30	0.94
2:A4:1151:THR:HG23	5:C4:734:VAL:N	1.68	0.94
3:A5:995:VAL:C	11:I5:58:ALA:HA	1.90	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:255:LEU:N	15:M2:602:MET:HB3	1.82	0.94
11:I1:945:LEU:CG	17:O1:258:GLU:N	2.30	0.94
11:I1:1036:PRO:N	16:N1:441:PHE:CZ	2.34	0.94
11:I1:1039:ALA:N	20:R1:169:GLY:CA	1.93	0.94
11:I2:936:LYS:HA	15:M3:609:GLY:CA	1.98	0.94
11:I2:1029:LEU:HD22	16:N3:437:VAL:HG21	1.46	0.94
11:I4:1279:THR:CG2	26:X3:520:GLU:CB	2.43	0.94
23:U1:274:GLN:HB3	25:W2:189:SER:HB3	0.94	0.94
23:U2:398:ILE:HD13	31:c4:531:TRP:CZ2	2.03	0.94
28:Z3:407:GLY:O	30:b3:251:ILE:CG1	2.14	0.94
28:Z4:535:ILE:HG12	30:b4:182:PRO:CG	1.96	0.94
1:A1:1332:ARG:CD	6:D1:636:ASP:OD1	2.13	0.94
1:A3:1021:LEU:CD1	6:D3:816:VAL:C	2.28	0.94
1:A3:1083:SER:HB3	6:D3:798:MET:HE1	1.22	0.94
1:A3:1167:CYS:N	3:A6:594:LEU:CD2	2.30	0.94
1:A3:1228:TYR:CD1	3:A6:551:GLN:HG2	2.02	0.94
1:A3:1236:GLN:HB2	3:A6:578:ILE:O	1.67	0.94
2:A4:713:ILE:HG13	3:A6:462:LEU:HD11	1.46	0.94
2:A4:827:ILE:HG21	3:A6:134:VAL:H	1.29	0.94
3:A5:1406:GLY:H	28:Z2:918:PHE:N	1.64	0.94
3:A5:1406:GLY:N	28:Z2:918:PHE:HA	1.81	0.94
11:I1:853:ILE:HG23	17:O1:254:ARG:CD	1.98	0.94
11:I1:877:ILE:HB	17:O1:252:VAL:N	1.52	0.94
11:I1:928:LEU:HD21	20:R1:155:GLU:HB2	1.49	0.94
11:I1:980:ILE:CD1	15:M1:622:VAL:N	2.28	0.94
11:I1:1021:ILE:CD1	16:N1:410:MET:HA	1.97	0.94
11:I1:1610:VAL:HG13	11:I2:1673:VAL:HG21	1.47	0.94
11:I1:1611:PHE:HB3	11:I2:1672:VAL:CG2	1.97	0.94
11:I2:890:TYR:CD1	17:O3:238:ALA:C	2.39	0.94
11:I2:898:VAL:HG23	17:O3:236:ASP:HA	0.95	0.94
11:I2:952:LEU:CD2	15:M3:602:MET:HG3	1.98	0.94
11:I2:995:SER:OG	17:O3:271:GLU:OE1	1.83	0.94
11:I2:1055:GLU:N	17:O3:278:GLU:HA	1.82	0.94
23:U1:24:ILE:HD12	31:c2:467:GLU:CG	1.97	0.94
23:U2:432:TYR:CB	31:c4:539:ILE:HG23	1.96	0.94
23:U2:439:SER:HB3	31:c4:428:ARG:NE	1.83	0.94
26:X2:296:PRO:HB2	34:i:447:CYS:SG	2.08	0.94
28:Z4:524:VAL:HG21	30:b4:236:THR:O	1.18	0.94
1:A1:831:ALA:O	6:D3:298:ASN:CG	2.11	0.94
2:A2:878:LEU:CD1	6:D1:608:ILE:CG2	2.37	0.94
1:A3:1196:GLU:H	3:A6:612:ALA:CB	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1261:TYR:CZ	3:A6:616:ALA:CB	2.49	0.94
2:A4:719:ARG:O	3:A6:513:GLN:HG2	1.14	0.94
2:A4:770:GLY:N	3:A6:477:PHE:HB2	1.83	0.94
3:A5:189:VAL:HG21	5:C2:742:ASP:CB	1.97	0.94
3:A5:221:SER:H	5:C2:738:ASP:HB3	1.32	0.94
3:A5:1374:ALA:HB2	28:Z2:823:ALA:HB1	1.42	0.94
11:I1:989:GLY:CA	15:M1:614:ASP:OD1	2.14	0.94
11:I2:884:LEU:HD21	15:M3:595:MET:SD	2.07	0.94
11:I3:1277:LEU:HD22	26:X1:513:PHE:HB2	1.45	0.94
11:I4:819:MET:CB	26:X3:501:LYS:HD3	1.97	0.94
21:S3:676:GLU:CB	21:S4:1146:ALA:CA	2.45	0.94
23:U1:440:ASP:OD1	31:c2:462:HIS:HB3	1.68	0.94
28:Z1:443:LEU:HD21	30:b1:250:GLY:CA	1.97	0.94
28:Z1:534:ASP:CA	30:b1:164:CYS:CB	2.44	0.94
28:Z1:557:CYS:C	30:b1:235:LEU:O	2.10	0.94
28:Z3:443:LEU:HD21	30:b3:250:GLY:CA	1.97	0.94
28:Z4:407:GLY:O	30:b4:251:ILE:CG1	2.14	0.94
28:Z4:443:LEU:HD21	30:b4:250:GLY:CA	1.97	0.94
2:A2:985:ALA:O	6:D1:500:LYS:CE	2.15	0.94
1:A3:1196:GLU:H	3:A6:612:ALA:HB2	1.12	0.94
1:A3:1237:LEU:HD11	3:A6:119:TRP:CZ2	2.02	0.94
2:A4:706:PRO:CD	3:A6:482:LYS:CG	1.76	0.94
2:A4:710:LEU:HD23	3:A6:479:VAL:N	1.81	0.94
2:A4:718:GLU:HB3	3:A6:121:PRO:HG2	1.44	0.94
2:A4:803:GLU:HG3	3:A6:382:SER:C	1.92	0.94
3:A6:132:ASP:CG	6:D3:607:PRO:N	2.10	0.94
11:I1:1021:ILE:CD1	16:N1:410:MET:HG3	1.95	0.94
17:O3:102:LYS:CG	18:P3:322:LYS:HE3	1.95	0.94
21:S1:1052:LEU:HD21	21:S1:1073:ILE:HD13	1.50	0.94
22:T1:826:GLY:HA3	31:c5:23:ARG:HH12	1.28	0.94
23:U2:19:LEU:O	31:c4:484:LEU:N	2.00	0.94
23:U2:35:PRO:CB	31:c4:531:TRP:HD1	1.77	0.94
23:U2:41:GLU:CD	31:c4:563:ARG:HH11	1.64	0.94
26:X2:187:THR:HG21	34:i:444:GLU:HB2	1.49	0.94
26:X2:365:ILE:HG23	34:i:424:LEU:HD12	1.46	0.94
28:Z1:401:THR:HA	30:b1:253:SER:N	1.80	0.94
28:Z1:402:GLY:HA3	30:b1:254:SER:HG	1.19	0.94
28:Z1:410:ASN:HD21	30:b1:252:ALA:CB	1.73	0.94
28:Z3:535:ILE:HG12	30:b3:182:PRO:CG	1.96	0.94
1:A1:1201:ARG:NE	2:A2:734:LEU:CB	2.24	0.94
1:A1:1224:PRO:CB	2:A2:731:ILE:HD13	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:869:ALA:HB3	6:D1:570:VAL:O	1.68	0.94
2:A2:973:GLU:OE1	6:D1:205:LEU:HD13	1.66	0.94
2:A2:1094:ILE:HD13	6:D2:759:GLN:HE21	1.19	0.94
2:A2:1135:ARG:NE	3:A5:134:VAL:CG1	2.31	0.94
2:A2:1160:GLN:HE21	3:A5:166:LEU:H	1.02	0.94
1:A3:1083:SER:H	6:D3:798:MET:HE2	1.32	0.94
1:A3:1117:ILE:HD12	3:A6:590:SER:OG	1.53	0.94
1:A3:1260:ALA:CB	3:A6:719:ARG:CZ	2.46	0.94
1:A3:1332:ARG:NE	6:D3:636:ASP:CB	2.31	0.94
2:A4:86:ASN:CB	3:A6:393:HIS:HB2	1.98	0.94
2:A4:688:TRP:CE3	3:A6:395:MET:HE2	2.02	0.94
2:A4:712:THR:H	3:A6:462:LEU:CD2	1.80	0.94
2:A4:763:LEU:CG	3:A6:470:ARG:HG2	1.96	0.94
2:A4:765:GLU:OE1	3:A6:475:TYR:HE2	1.08	0.94
2:A4:779:ASP:O	3:A6:522:GLY:C	2.11	0.94
2:A4:791:ALA:H	3:A6:187:THR:HG22	0.77	0.94
2:A4:854:VAL:HG13	3:A6:173:ASN:C	1.91	0.94
2:A4:856:PHE:N	3:A6:167:TRP:CD1	2.36	0.94
2:A4:908:LEU:HD23	6:D3:601:PHE:HB3	0.95	0.94
2:A4:970:PHE:CE2	6:D3:498:GLU:OE2	2.12	0.94
3:A5:999:SER:O	11:I5:64:LYS:CE	2.15	0.94
3:A5:1312:ARG:HD3	28:Z2:832:PHE:HA	0.97	0.94
3:A5:1395:LYS:HA	28:Z2:873:LEU:C	1.92	0.94
6:D6:800:PRO:HB3	22:T3:765:LYS:HG3	1.32	0.94
11:I1:881:ILE:C	17:O1:249:ARG:HD2	1.90	0.94
11:I1:881:ILE:CD1	17:O1:253:LEU:HD12	1.97	0.94
11:I1:952:LEU:CG	16:N1:400:LEU:CD2	2.45	0.94
11:I1:962:ILE:HD12	20:R1:164:PRO:O	1.67	0.94
11:I1:1035:GLN:H	15:M1:627:LEU:HD23	1.29	0.94
11:I1:1048:GLU:CG	17:O1:288:GLU:HG3	1.98	0.94
11:I1:1056:PRO:CB	17:O1:278:GLU:CG	2.41	0.94
11:I1:1065:SER:OG	16:N1:430:ARG:HG3	1.66	0.94
11:I1:1101:LEU:HD22	16:N1:432:TYR:CE1	2.03	0.94
11:I1:1109:LEU:H	16:N1:441:PHE:H	0.98	0.94
11:I2:945:LEU:CB	17:O3:255:GLY:O	2.16	0.94
11:I2:976:ARG:O	20:R3:150:ASN:HB2	1.65	0.94
11:I2:1035:GLN:HA	15:M3:626:HIS:CB	1.94	0.94
22:T1:736:LEU:O	31:c5:18:SER:O	1.86	0.94
23:U2:392:LEU:HG	31:c4:548:VAL:O	1.68	0.94
23:U2:397:ASP:CG	31:c4:551:LEU:HD22	1.92	0.94
23:U2:412:LEU:HA	31:c4:541:ARG:CZ	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:415:THR:HB	31:c4:541:ARG:HH12	1.30	0.94
26:X2:324:ILE:HG13	34:i:476:LEU:CD1	1.98	0.94
26:X2:363:TYR:HA	34:i:418:LEU:C	1.88	0.94
28:Z3:524:VAL:N	30:b3:238:ASN:CB	2.03	0.94
28:Z3:528:ILE:O	30:b3:184:SER:HB3	0.85	0.94
28:Z3:534:ASP:CA	30:b3:164:CYS:CB	2.44	0.94
1:A1:1201:ARG:HD2	2:A2:734:LEU:CB	1.98	0.94
2:A2:227:SER:CB	6:D1:711:PHE:CB	2.46	0.94
1:A3:1163:TYR:O	3:A6:647:GLU:HB2	1.67	0.94
1:A3:1188:ASN:CA	3:A6:723:PHE:CZ	2.48	0.94
1:A3:1332:ARG:HB2	3:A6:127:HIS:NE2	1.82	0.94
2:A4:74:ASP:O	3:A6:255:LYS:NZ	2.01	0.94
2:A4:85:VAL:HG13	3:A6:405:PHE:HD1	1.16	0.94
2:A4:712:THR:CG2	3:A6:461:ALA:HB1	1.98	0.94
2:A4:767:ILE:N	3:A6:471:PHE:N	2.16	0.94
2:A4:870:HIS:CG	6:D3:566:PHE:CE1	2.56	0.94
6:D7:481:ARG:HB3	11:I3:183:LYS:HE2	1.47	0.94
9:G1:254:ASN:ND2	17:O2:261:LYS:HD2	1.81	0.94
11:I1:952:LEU:HD12	16:N1:400:LEU:CG	1.96	0.94
11:I1:1060:PHE:HD2	17:O1:279:ILE:HD13	1.29	0.94
11:I1:1635:HIS:HE1	11:I2:1677:LYS:HD2	1.09	0.94
11:I2:943:ALA:O	17:O3:260:LEU:HB2	1.68	0.94
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG22	0.98	0.94
11:I4:817:ASP:HB2	26:X3:498:SER:O	1.68	0.94
11:I4:1276:GLN:OE1	26:X3:520:GLU:CG	2.08	0.94
23:U1:394:ILE:HG22	31:c2:475:ALA:CB	1.98	0.94
23:U2:395:CYS:SG	31:c4:555:VAL:HG12	2.07	0.94
23:U2:396:LEU:HA	31:c4:554:LEU:HB3	1.50	0.94
28:Z2:534:ASP:CA	30:b2:164:CYS:CB	2.44	0.94
2:A2:975:GLU:H	6:D1:499:LEU:HG	1.18	0.94
2:A2:1144:ASP:H	3:A5:129:ASN:CB	1.79	0.94
1:A3:1186:TRP:CH2	3:A6:583:LEU:CB	2.50	0.94
1:A3:1189:LEU:HD11	3:A6:579:PHE:CZ	2.02	0.94
1:A3:1202:GLU:HG2	3:A6:91:LEU:N	1.82	0.94
1:A3:1311:ARG:NH2	3:A6:711:VAL:C	2.06	0.94
2:A4:227:SER:CB	6:D3:708:ASP:O	2.16	0.94
2:A4:642:ARG:HD2	3:A6:604:GLN:C	1.92	0.94
2:A4:729:SER:HB3	3:A6:678:LEU:CG	1.97	0.94
2:A4:753:GLU:HA	3:A6:542:LEU:N	1.70	0.94
2:A4:819:VAL:O	3:A6:562:LEU:HD11	1.10	0.94
2:A4:827:ILE:CG2	3:A6:134:VAL:N	2.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:859:GLN:OE1	3:A6:131:PRO:HD2	1.68	0.94
2:A4:978:ASP:H	6:D3:467:PHE:HE1	1.01	0.94
3:A5:1391:ARG:HB3	28:Z2:871:HIS:N	1.81	0.94
6:D5:783:SER:OG	31:c4:305:SER:CA	2.16	0.94
8:F2:1090:PRO:HB3	17:O4:245:GLU:OE2	1.60	0.94
11:I2:828:VAL:O	17:O3:237:PRO:CB	2.15	0.94
11:I2:995:SER:H	17:O3:271:GLU:HB2	1.20	0.94
11:I3:777:SER:CB	29:a2:40[A]:GLU:CG	2.34	0.94
23:U2:415:THR:H	31:c4:541:ARG:HE	0.95	0.94
28:Z2:535:ILE:HG12	30:b2:182:PRO:CG	1.96	0.94
28:Z3:531:LYS:CD	30:b3:183:LEU:CA	2.36	0.94
28:Z4:561:GLN:HE22	30:b4:237:LEU:HD12	1.33	0.94
2:A2:827:ILE:O	2:A2:863:GLN:CA	2.16	0.93
2:A2:986:THR:CB	6:D1:497:PHE:HE1	1.79	0.93
2:A2:1135:ARG:NE	3:A5:134:VAL:HG11	1.82	0.93
2:A2:1148:ARG:CD	3:A5:171:HIS:O	2.15	0.93
2:A2:1153:LEU:CG	3:A5:173:ASN:C	2.41	0.93
1:A3:1183:LEU:HD13	3:A6:635:ARG:HG3	1.49	0.93
1:A3:1186:TRP:HA	3:A6:641:ALA:CA	1.98	0.93
1:A3:1237:LEU:HD21	3:A6:119:TRP:HZ2	1.29	0.93
2:A4:672:ARG:HG3	3:A6:96:PRO:HG3	1.06	0.93
2:A4:768:SER:CB	3:A6:477:PHE:CE2	2.51	0.93
2:A4:891:GLY:C	3:A6:232:LEU:H	1.76	0.93
2:A4:909:LYS:HG3	6:D3:555:ARG:HH11	1.30	0.93
2:A4:967:GLU:O	6:D3:202:GLN:HB3	0.97	0.93
2:A4:988:ARG:HH22	6:D3:499:LEU:HA	0.78	0.93
3:A5:1395:LYS:CG	28:Z2:873:LEU:N	2.07	0.93
11:I1:873:ILE:C	17:O1:251:ILE:HG22	1.93	0.93
11:I1:941:GLY:C	17:O1:260:LEU:HA	1.93	0.93
11:I2:890:TYR:N	17:O3:242:ARG:CD	2.27	0.93
11:I2:977:ASN:H	20:R3:149:ARG:N	1.59	0.93
23:U1:176:GLU:OE2	31:c1:501:GLU:O	1.85	0.93
23:U1:198:GLU:CD	31:c1:622:ILE:CD1	2.39	0.93
23:U2:359:ILE:HB	31:c4:544:VAL:C	1.92	0.93
23:U2:395:CYS:SG	31:c4:556:GLN:N	2.41	0.93
23:U2:436:LEU:HD11	31:c4:540:HIS:HB3	0.95	0.93
26:X2:290:GLU:HB2	34:i:492:TRP:CD2	2.03	0.93
28:Z4:402:GLY:HA3	30:b4:254:SER:HG	1.12	0.93
2:A2:1147:ILE:O	3:A5:172:PRO:HB3	1.68	0.93
1:A3:1084:ARG:C	6:D3:797:GLY:HA3	1.92	0.93
1:A3:1189:LEU:HG	3:A6:641:ALA:HA	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:536:ALA:O	3:A6:362:PHE:HE2	1.37	0.93
2:A4:727:ASN:O	3:A6:500:LYS:HD3	1.67	0.93
2:A4:778:PHE:CB	6:D3:675:ARG:O	2.08	0.93
2:A4:896:ALA:O	3:A6:165:PHE:CG	2.20	0.93
3:A6:446:LEU:C	6:D3:730:ARG:NH2	0.83	0.93
3:A6:484:PRO:C	6:D3:676:ALA:N	2.11	0.93
11:I1:956:ILE:HA	20:R1:166:LEU:HD22	0.94	0.93
11:I1:1017:VAL:N	16:N1:411:GLN:CG	2.30	0.93
11:I1:1042:LEU:C	15:M1:616:LEU:HD21	1.93	0.93
11:I1:1049:LEU:HB2	20:R1:146:LEU:CD1	1.95	0.93
11:I1:1607:GLN:CB	11:I2:1739:GLU:HA	1.97	0.93
11:I2:837:MET:HA	17:O3:244:GLU:H	1.34	0.93
11:I2:886:LEU:HD12	17:O3:245:GLU:HB2	1.50	0.93
11:I3:777:SER:HB2	29:a2:40[A]:GLU:CB	1.98	0.93
22:T1:741:ASP:CA	31:c5:24:GLN:NE2	1.82	0.93
23:U1:201:LYS:HD3	31:c1:625:PRO:CD	1.95	0.93
23:U2:432:TYR:C	31:c4:539:ILE:CG2	2.40	0.93
24:V2:682:ALA:O	31:c2:54:ASN:CA	2.11	0.93
26:X2:287:ASP:HB2	34:i:480[B]:MET:CG	1.98	0.93
28:Z1:402:GLY:C	30:b1:273:LYS:HB3	1.93	0.93
28:Z4:410:ASN:HD21	30:b4:252:ALA:CB	1.73	0.93
2:A2:980:ARG:CA	6:D1:473:GLU:HG3	1.99	0.93
2:A2:1114:ILE:HD11	5:C2:731:LYS:HB2	1.44	0.93
1:A3:1233:GLN:CA	3:A6:578:ILE:CG2	2.37	0.93
1:A3:1270:SER:CB	3:A6:709:LYS:HZ1	1.77	0.93
1:A3:1271:ILE:HB	3:A6:550:VAL:HG12	1.51	0.93
1:A3:1285:LEU:CD1	3:A6:581:LYS:HA	1.99	0.93
2:A4:646:ILE:N	3:A6:501:VAL:O	2.00	0.93
2:A4:774:VAL:CG1	3:A6:467:LEU:H	1.66	0.93
2:A4:788:ARG:HA	3:A6:144:PHE:CA	1.96	0.93
2:A4:859:GLN:HB3	3:A6:134:VAL:CB	1.98	0.93
2:A4:871:ASN:HB3	6:D3:568:ARG:O	1.69	0.93
2:A4:897:ASN:CB	3:A6:166:LEU:O	2.08	0.93
2:A4:954:ILE:HG13	4:B6:346:LEU:H	1.32	0.93
3:A6:446:LEU:HD12	6:D3:722:LEU:H	1.32	0.93
6:D7:176:SER:CB	11:I3:95:LYS:NZ	2.32	0.93
8:F1:1265:GLN:NE2	17:O2:257:ALA:O	2.01	0.93
8:F1:1265:GLN:OE1	17:O2:258:GLU:O	1.87	0.93
11:I2:899:LEU:HD21	17:O3:235:ASN:OD1	1.67	0.93
11:I2:934:LEU:O	15:M3:606:LEU:CA	2.15	0.93
11:I2:995:SER:N	17:O3:271:GLU:HB2	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1274:HIS:N	26:X3:524:SER:CB	2.32	0.93
17:O4:110:LEU:HD22	18:P4:321:ILE:HG13	1.47	0.93
21:S1:678:GLU:HA	21:S2:1127:GLN:HG2	1.00	0.93
23:U2:432:TYR:HE1	31:c4:465:PRO:HD2	1.33	0.93
28:Z2:527:SER:HB2	30:b2:204:GLU:HG3	1.47	0.93
28:Z3:522:ASN:CG	30:b3:241:PRO:HB3	1.94	0.93
2:A2:780:GLU:CB	6:D1:677:GLN:O	2.12	0.93
1:A3:1220:PRO:HG3	2:A4:732:GLN:OE1	1.68	0.93
1:A3:1236:GLN:CB	3:A6:578:ILE:O	2.16	0.93
1:A3:1239:ALA:N	3:A6:584:GLY:N	2.14	0.93
1:A3:1250:PRO:CB	3:A6:635:ARG:HB3	1.97	0.93
2:A4:669:LEU:HD22	3:A6:542:LEU:H	0.79	0.93
2:A4:693:VAL:H	3:A6:316:ARG:HH12	0.96	0.93
2:A4:975:GLU:HB2	6:D3:499:LEU:HB3	1.49	0.93
6:D6:804:SER:HB2	22:T3:764:PHE:CD2	2.03	0.93
11:I1:931:VAL:HG22	15:M1:604:ASN:CG	1.93	0.93
11:I1:1048:GLU:HB2	17:O1:284:LYS:HA	1.47	0.93
11:I1:1543:LEU:HD13	11:I2:1677:LYS:CE	1.98	0.93
11:I1:1667:GLN:HG3	11:I2:1665:LEU:HG	1.49	0.93
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG11	1.82	0.93
11:I4:1274:HIS:CG	26:X3:524:SER:OG	2.09	0.93
23:U2:38:ILE:HA	31:c4:559:ILE:HG21	1.51	0.93
26:X1:403:HIS:CE1	37:k2:450:HIS:NE2	0.79	0.93
26:X2:300:SER:CB	34:i:335:HIS:H	1.81	0.93
26:X2:366:PRO:HD2	34:i:421:ILE:HD13	1.50	0.93
28:Z2:557:CYS:C	30:b2:235:LEU:O	2.10	0.93
2:A2:780:GLU:HB2	6:D1:677:GLN:CB	1.98	0.93
2:A2:969:ASP:O	6:D1:192:TYR:CD1	2.21	0.93
2:A2:985:ALA:HB1	6:D1:500:LYS:H	1.34	0.93
2:A2:1155:ASN:CG	3:A5:175:GLU:OE2	2.10	0.93
1:A3:1120:ASP:O	3:A6:599:ARG:NE	2.01	0.93
1:A3:1242:THR:HG23	3:A6:588:SER:H	1.13	0.93
1:A3:1311:ARG:CD	3:A6:715:GLU:CD	2.41	0.93
2:A4:678:LEU:O	3:A6:431:PHE:CD1	2.21	0.93
2:A4:692:VAL:C	3:A6:466:ALA:O	2.12	0.93
2:A4:729:SER:HB3	3:A6:678:LEU:HD23	0.94	0.93
2:A4:789:LEU:HD21	3:A6:146:LYS:HA	1.49	0.93
2:A4:819:VAL:O	3:A6:562:LEU:CD1	2.06	0.93
2:A4:975:GLU:N	6:D3:499:LEU:CB	2.32	0.93
3:A5:150:PHE:CE2	5:C2:740:ARG:O	2.20	0.93
3:A5:186:ILE:O	5:C2:745:SER:HA	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1089:PRO:O	17:O4:245:GLU:HA	1.68	0.93
9:G1:263:MET:HE2	17:O2:256:TYR:OH	1.69	0.93
11:I1:853:ILE:CG2	17:O1:254:ARG:HD3	1.88	0.93
11:I1:950:LEU:HD11	16:N1:410:MET:HB3	1.48	0.93
11:I2:828:VAL:C	17:O3:237:PRO:HG2	1.93	0.93
11:I2:976:ARG:HH11	20:R3:146:LEU:C	1.70	0.93
11:I2:1018:LYS:H	16:N3:413:VAL:H	1.10	0.93
11:I3:1274:HIS:HB3	26:X1:534:ILE:HG21	1.49	0.93
23:U1:38:ILE:HA	31:c2:473:THR:HG22	0.96	0.93
23:U2:436:LEU:CG	31:c4:540:HIS:CB	2.45	0.93
26:X2:367:SER:CA	34:i:441:LEU:HD23	1.99	0.93
28:Z1:528:ILE:O	30:b1:184:SER:HB3	0.85	0.93
28:Z3:555:LYS:HG3	30:b3:233:TRP:HE3	1.32	0.93
28:Z4:557:CYS:C	30:b4:235:LEU:O	2.10	0.93
1:A1:1332:ARG:NH1	6:D1:682:ASN:N	2.09	0.93
2:A2:227:SER:CB	6:D1:711:PHE:CD2	2.48	0.93
2:A2:823:VAL:C	2:A2:856:PHE:HE1	1.76	0.93
2:A2:1132:PRO:HD2	3:A5:160:ILE:HG12	1.48	0.93
1:A3:1229:VAL:CG2	3:A6:574:ARG:CB	2.45	0.93
1:A3:1311:ARG:HD3	3:A6:712:THR:N	1.84	0.93
1:A3:1388:ALA:HB1	3:A6:224:PRO:O	1.67	0.93
2:A4:638:GLU:HB3	3:A6:498:ARG:NH1	1.81	0.93
2:A4:692:VAL:N	3:A6:316:ARG:NH2	2.17	0.93
2:A4:705:ILE:H	3:A6:464:PRO:HD2	1.29	0.93
2:A4:864:ARG:HB3	6:D3:608:ILE:H	1.30	0.93
2:A4:864:ARG:HB3	6:D3:608:ILE:HG12	1.48	0.93
2:A4:892:SER:O	3:A6:177:ILE:HD12	1.69	0.93
3:A6:523:ASN:ND2	6:D3:635:ALA:CB	2.31	0.93
11:I1:837:MET:HG3	17:O1:238:ALA:O	1.68	0.93
11:I1:986:ASN:C	15:M1:613:ASP:N	2.11	0.93
11:I2:887:GLN:NE2	16:N3:393:ILE:C	2.15	0.93
11:I2:1043:LEU:HD13	16:N3:430:ARG:O	1.68	0.93
11:I2:1043:LEU:CD2	16:N3:430:ARG:O	2.14	0.93
11:I2:1048:GLU:HB2	17:O3:284:LYS:CB	1.98	0.93
11:I2:1103:LEU:HD13	20:R3:174:ARG:HB2	1.51	0.93
11:I4:813:ILE:O	26:X3:496:THR:HG23	1.66	0.93
23:U1:198:GLU:CD	31:c1:622:ILE:HD13	1.93	0.93
28:Z2:522:ASN:CG	30:b2:241:PRO:HB3	1.94	0.93
1:A3:1311:ARG:HD3	3:A6:712:THR:HA	1.49	0.93
2:A4:542:LEU:HG	3:A6:364:HIS:HE1	0.83	0.93
2:A4:687:LEU:HD11	3:A6:476:PHE:HZ	1.25	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:720:LEU:HB2	3:A6:512:GLU:HA	1.48	0.93
2:A4:757:LEU:HD12	3:A6:543:GLY:HA2	0.94	0.93
2:A4:896:ALA:CB	3:A6:164:LEU:HG	1.99	0.93
4:B5:344:ALA:HA	5:C2:737:LYS:NZ	1.81	0.93
11:I1:959:SER:CB	16:N1:395:GLU:HB3	1.98	0.93
11:I2:980:ILE:O	15:M3:618:GLN:CG	2.16	0.93
23:U2:18:THR:HG23	31:c4:563:ARG:NE	1.45	0.93
26:X2:309:LEU:H	34:i:405:TYR:HA	0.77	0.93
28:Z1:556:ASN:CA	30:b1:212:PHE:HB2	1.99	0.93
1:A1:1402:ASP:N	2:A2:884:ARG:NH1	2.17	0.93
2:A2:777:LEU:HA	6:D1:678:GLY:HA3	1.48	0.93
2:A2:780:GLU:CG	6:D1:678:GLY:C	2.30	0.93
1:A3:1194:HIS:HE2	3:A6:679:TYR:C	1.72	0.93
1:A3:1202:GLU:HG2	3:A6:91:LEU:H	1.31	0.93
1:A3:1251:VAL:HG23	3:A6:633:MET:CB	1.97	0.93
2:A4:80:LYS:NZ	3:A6:387:THR:HG22	1.83	0.93
2:A4:553:ASP:HA	3:A6:435:PRO:CD	1.98	0.93
2:A4:555:VAL:CG2	3:A6:437:ARG:HH22	1.57	0.93
2:A4:706:PRO:HD2	3:A6:482:LYS:HG3	1.47	0.93
2:A4:773:PHE:CD1	3:A6:469:PHE:CZ	2.57	0.93
3:A6:1403:MSE:HG2	26:X4:742:ALA:HA	0.94	0.93
8:F1:1205:TRP:CD2	17:O2:254:ARG:CD	2.47	0.93
9:G1:256:GLN:H	17:O2:257:ALA:CB	1.81	0.93
11:I1:877:ILE:HG21	17:O1:253:LEU:HB2	1.19	0.93
11:I1:1038:ILE:HB	20:R1:168:LEU:O	1.66	0.93
11:I1:1046:HIS:HB2	17:O1:280:GLU:O	1.69	0.93
11:I1:1667:GLN:CD	11:I2:1665:LEU:HB2	1.94	0.93
11:I2:1104:LEU:CD2	16:N3:433:GLU:CG	2.24	0.93
22:T1:824:VAL:CB	31:c5:54:ASN:O	2.16	0.93
23:U1:400:ASN:OD1	31:c2:553:LEU:HD23	1.67	0.93
23:U2:41:GLU:HB3	31:c4:563:ARG:HH12	1.22	0.93
26:X2:283:ASP:H	34:i:15:GLN:HG2	1.32	0.93
26:X2:305:GLU:CG	34:i:325:VAL:CG1	2.46	0.93
2:A2:992:TYR:HB3	6:D1:238:ALA:HB1	1.50	0.93
2:A2:1141:GLU:O	3:A5:129:ASN:HA	0.85	0.93
2:A2:1149:THR:N	3:A5:172:PRO:CD	2.32	0.93
1:A3:1170:ILE:HG23	3:A6:591:ASP:HB2	1.51	0.93
2:A4:75:LEU:CD2	3:A6:323:THR:OG1	2.11	0.93
2:A4:672:ARG:HB3	3:A6:96:PRO:CA	1.99	0.93
2:A4:689:LYS:CG	3:A6:396:ALA:CB	2.16	0.93
2:A4:721:ARG:NE	3:A6:122:PHE:CZ	2.37	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:872:ALA:HB3	6:D3:565:MET:CE	1.94	0.93
2:A4:896:ALA:HB3	3:A6:164:LEU:HG	1.50	0.93
2:A4:945:ARG:CA	4:B6:351:GLU:OE1	2.14	0.93
2:A4:982:THR:H	6:D3:496:LEU:C	1.68	0.93
3:A5:1029:ILE:HG22	11:I5:71:GLU:H	1.16	0.93
3:A6:842:ARG:NH2	8:F2:777:ASN:OD1	2.02	0.93
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CD1	2.29	0.93
11:I2:1024:PHE:HB2	16:N3:406:HIS:CD2	2.03	0.93
11:I2:1030:ARG:HB3	20:R3:172:ASP:O	1.67	0.93
11:I4:819:MET:HE3	27:Y3:178:PHE:CZ	2.01	0.93
11:I4:1276:GLN:HG2	26:X3:521:TRP:H	1.33	0.93
23:U1:434:THR:HG22	31:c2:479:ILE:CB	1.85	0.93
28:Z3:524:VAL:HA	30:b3:236:THR:CG2	1.96	0.93
28:Z3:561:GLN:HE22	30:b3:237:LEU:HD12	1.33	0.93
28:Z4:402:GLY:C	30:b4:273:LYS:HB3	1.93	0.93
2:A2:223:THR:CA	6:D1:709:ARG:HH22	1.82	0.93
2:A2:776:MET:HG2	6:D1:678:GLY:O	1.66	0.93
2:A2:872:ALA:CB	6:D1:565:MET:CA	2.42	0.93
1:A3:1190:ILE:HA	3:A6:613:ALA:O	1.69	0.93
1:A3:1229:VAL:N	3:A6:574:ARG:CB	2.23	0.93
1:A3:1236:GLN:NE2	3:A6:573:ARG:HE	1.67	0.93
1:A3:1242:THR:HG21	3:A6:587:VAL:CG2	1.99	0.93
1:A3:1246:SER:C	3:A6:636:ASN:ND2	2.27	0.93
2:A4:674:ASP:N	3:A6:100:SER:OG	1.84	0.93
2:A4:857:LYS:NZ	3:A6:129:ASN:HD22	1.58	0.93
3:A5:221:SER:N	5:C2:738:ASP:CG	2.26	0.93
11:I1:894:VAL:HG21	17:O1:238:ALA:H	1.24	0.93
11:I1:914:ASN:CB	15:M1:588:MET:H	1.82	0.93
11:I1:945:LEU:CD2	17:O1:258:GLU:CB	2.25	0.93
11:I1:1066:LEU:O	16:N1:429:GLU:HB2	1.69	0.93
11:I2:833:PHE:CE1	17:O3:245:GLU:OE1	2.21	0.93
11:I2:955:LYS:HB2	16:N3:400:LEU:HD23	1.49	0.93
11:I2:1054:ILE:C	17:O3:281:ALA:CB	2.40	0.93
28:Z1:526:ARG:C	30:b1:206:ASN:CG	2.37	0.93
28:Z3:402:GLY:C	30:b3:273:LYS:HB3	1.93	0.93
1:A3:1225:PRO:HD3	3:A6:497:GLY:N	1.82	0.92
1:A3:1271:ILE:CA	3:A6:550:VAL:HB	1.99	0.92
1:A3:1278:PRO:HB3	3:A6:624:ASP:N	1.79	0.92
2:A4:648:TYR:CD2	3:A6:504:PRO:CD	2.52	0.92
2:A4:713:ILE:HB	3:A6:462:LEU:HD13	1.49	0.92
2:A4:754:HIS:HD2	3:A6:538:ALA:HA	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:941:ALA:HA	4:B6:350:GLU:HG3	1.50	0.92
2:A4:970:PHE:CA	6:D3:202:GLN:HG3	1.98	0.92
2:A4:988:ARG:CG	6:D3:500:LYS:CG	2.37	0.92
3:A5:221:SER:HB3	5:C2:738:ASP:OD2	1.67	0.92
5:C1:732:LYS:HZ2	11:I1:1225:LYS:CD	1.75	0.92
8:F1:1202:TYR:CB	17:O2:252:VAL:HG22	1.99	0.92
11:I1:945:LEU:HD21	17:O1:258:GLU:CA	1.99	0.92
11:I1:1027:ALA:HB3	20:R1:172:ASP:CG	1.89	0.92
11:I1:1109:LEU:CG	16:N1:438:LEU:HA	1.78	0.92
11:I2:880:MET:SD	17:O3:250:LEU:HD23	1.81	0.92
18:P1:277:PRO:HB3	18:P4:323:GLN:H	1.29	0.92
21:S1:670:ILE:H	21:S2:1146:ALA:HA	1.31	0.92
23:U1:405:GLU:CA	31:c2:548:VAL:HG21	1.98	0.92
23:U2:431:ILE:C	31:c4:464:LEU:HD22	1.93	0.92
23:U2:437:ASN:CB	31:c4:431:ASN:OD1	2.17	0.92
23:U3:278:GLN:NE2	25:W4:188:ASN:O	1.88	0.92
26:X2:287:ASP:CB	34:i:480[B]:MET:CG	2.47	0.92
26:X2:336:LEU:HD21	34:i:478:PRO:CD	1.99	0.92
2:A2:965:LYS:HE3	6:D1:196:ILE:C	1.94	0.92
2:A2:973:GLU:HB3	6:D1:205:LEU:CD2	1.96	0.92
2:A2:981:PRO:CG	6:D1:504:LYS:HG3	1.99	0.92
2:A2:987:LYS:CD	6:D1:555:ARG:CZ	2.47	0.92
1:A3:1169:LEU:O	3:A6:590:SER:O	1.86	0.92
1:A3:1234:GLN:O	3:A6:583:LEU:CD1	2.13	0.92
1:A3:1249:PHE:HE1	3:A6:584:GLY:N	1.66	0.92
1:A3:1311:ARG:HD3	3:A6:712:THR:CA	2.00	0.92
1:A3:1318:TRP:HZ2	3:A6:624:ASP:OD2	1.50	0.92
2:A4:75:LEU:O	3:A6:323:THR:HG22	1.39	0.92
2:A4:93:ASP:HB2	3:A6:429:LEU:N	1.82	0.92
2:A4:616:ALA:CB	3:A6:109:ASP:OD2	2.10	0.92
2:A4:691:LYS:HD2	3:A6:316:ARG:HB2	1.51	0.92
2:A4:879:LEU:CD1	6:D3:564:ASN:ND2	2.33	0.92
2:A4:890:ALA:CA	3:A6:175:GLU:CD	2.42	0.92
3:A6:1367:THR:HB	28:Z4:877:ILE:H	0.77	0.92
3:A6:1410:ALA:N	26:X4:686:ASP:CA	2.32	0.92
9:G1:254:ASN:HD21	17:O2:261:LYS:CE	1.80	0.92
11:I1:916:ALA:C	16:N1:389:PHE:HZ	1.69	0.92
11:I1:923:GLY:CA	15:M1:591:ASP:C	2.34	0.92
11:I2:850:ILE:HG22	15:M3:598:GLU:CD	1.93	0.92
11:I2:989:GLY:HA3	15:M3:614:ASP:CB	1.98	0.92
11:I3:1239:ASP:HB3	26:X1:116:ARG:HH21	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1267:LEU:CD1	26:X1:529:TRP:CD2	2.51	0.92
24:V1:336:LEU:HD13	31:c1:625:PRO:O	1.67	0.92
26:X2:283:ASP:HA	34:i:479:THR:HG23	1.48	0.92
26:X2:287:ASP:HB3	34:i:480[A]:MET:HB3	1.48	0.92
26:X2:290:GLU:HB2	34:i:492:TRP:NE1	1.82	0.92
26:X2:297:LYS:HD3	34:i:446:LYS:HZ3	1.13	0.92
26:X2:303:PHE:O	34:i:418:LEU:CD1	2.17	0.92
28:Z1:561:GLN:HE22	30:b1:237:LEU:HD12	1.33	0.92
28:Z2:526:ARG:C	30:b2:206:ASN:CG	2.37	0.92
1:A1:1225:PRO:O	2:A2:728:LYS:HB3	1.67	0.92
2:A2:980:ARG:CB	6:D1:526:LEU:HB3	2.00	0.92
1:A3:1282:PHE:HB2	3:A6:625:LEU:C	1.93	0.92
2:A4:87:GLN:CG	3:A6:393:HIS:ND1	2.19	0.92
2:A4:543:GLY:O	3:A6:362:PHE:C	2.13	0.92
2:A4:602:ILE:HG12	3:A6:506:SER:HB3	1.46	0.92
2:A4:793:SER:OG	3:A6:187:THR:O	1.85	0.92
2:A4:854:VAL:HG22	3:A6:172:PRO:C	1.94	0.92
3:A6:485:ASN:CA	6:D3:673:ARG:C	2.25	0.92
11:I1:873:ILE:C	17:O1:251:ILE:CG2	2.42	0.92
11:I2:900:ARG:HG3	17:O3:232:LYS:HZ2	1.20	0.92
11:I2:952:LEU:HD23	15:M3:602:MET:HG3	1.49	0.92
11:I2:1066:LEU:C	16:N3:430:ARG:CG	2.42	0.92
21:S1:680:PRO:CB	21:S2:1071:LEU:HA	1.98	0.92
22:T1:825:ASP:HB3	31:c5:23:ARG:HD2	1.51	0.92
23:U1:23:LYS:CD	31:c2:479:ILE:C	2.42	0.92
23:U2:38:ILE:HD12	31:c4:531:TRP:HE1	1.33	0.92
23:U2:442:LEU:CB	31:c4:462:HIS:CD2	2.51	0.92
26:X2:303:PHE:CA	34:i:416:VAL:HG11	1.99	0.92
28:Z4:555:LYS:HG3	30:b4:233:TRP:HE3	1.31	0.92
1:A3:1088:ASN:HA	6:D3:808:ASN:CB	1.99	0.92
1:A3:1123:GLU:C	3:A6:599:ARG:CZ	2.15	0.92
1:A3:1235:ILE:C	3:A6:581:LYS:C	2.18	0.92
2:A4:536:ALA:CA	3:A6:369:SER:N	2.33	0.92
2:A4:685:ARG:HH21	3:A6:432:VAL:HG11	1.32	0.92
2:A4:777:LEU:HD12	3:A6:467:LEU:HD11	0.92	0.92
2:A4:827:ILE:CG2	3:A6:134:VAL:H	1.82	0.92
11:I1:987:GLY:H	15:M1:613:ASP:N	1.40	0.92
11:I2:934:LEU:HB2	15:M3:601:ASP:O	1.69	0.92
11:I2:1040:HIS:HE2	16:N3:437:VAL:HG11	1.23	0.92
11:I4:1271:GLU:O	26:X3:521:TRP:HD1	1.50	0.92
21:S3:601:LEU:H	21:S4:1156:ILE:HA	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:361:LEU:HD22	34:i:445:GLN:HG3	1.50	0.92
28:Z1:522:ASN:CG	30:b1:241:PRO:HB3	1.94	0.92
2:A2:862:LEU:N	6:D1:606:LYS:HE3	1.83	0.92
1:A3:1186:TRP:O	3:A6:641:ALA:CB	2.17	0.92
1:A3:1274:ASP:CB	3:A6:556:PRO:HD2	1.96	0.92
2:A4:714:GLN:OE1	3:A6:489:LEU:C	2.11	0.92
2:A4:757:LEU:HD12	3:A6:543:GLY:N	1.85	0.92
2:A4:861:GLN:HA	6:D3:607:PRO:CG	1.98	0.92
2:A4:892:SER:HB3	3:A6:230:LYS:O	1.69	0.92
2:A4:954:ILE:CB	4:B6:345:LYS:CA	2.45	0.92
2:A4:972:GLY:C	6:D3:205:LEU:H	1.62	0.92
3:A5:1405:LEU:N	28:Z2:918:PHE:H	1.29	0.92
3:A6:444:ARG:CD	6:D3:733:ALA:HB2	1.72	0.92
3:A6:842:ARG:CD	8:F2:776:HIS:CE1	2.52	0.92
3:A6:1151:THR:HA	5:C6:733:LEU:HD12	1.49	0.92
11:I1:889:THR:N	17:O1:242:ARG:CZ	2.32	0.92
11:I1:896:PRO:N	17:O1:233:THR:CA	2.32	0.92
11:I1:947:LEU:CD1	17:O1:256:TYR:OH	2.18	0.92
11:I1:1104:LEU:C	16:N1:436:ALA:CB	2.41	0.92
11:I2:898:VAL:HG21	17:O3:236:ASP:C	1.95	0.92
11:I2:1037:THR:HB	15:M3:624:ASN:ND2	1.85	0.92
11:I2:1067:PHE:HD1	16:N3:430:ARG:C	1.76	0.92
11:I2:1113:LEU:HD22	17:O3:282:LYS:NZ	1.85	0.92
23:U2:78:VAL:CG1	31:c4:553:LEU:HB2	1.98	0.92
24:V1:339:LEU:HD13	31:c1:627:ASP:OD1	1.69	0.92
26:X2:363:TYR:CE2	34:i:419:THR:HG22	2.03	0.92
28:Z4:528:ILE:N	30:b4:208:ASN:ND2	2.05	0.92
1:A1:1200:ARG:HE	2:A2:642:ARG:NH2	1.65	0.92
2:A2:827:ILE:HA	2:A2:860:GLU:CA	1.97	0.92
2:A2:874:VAL:HG13	6:D1:611:LYS:CB	1.98	0.92
2:A2:876:ARG:CD	6:D1:558:LYS:CA	2.47	0.92
2:A2:1148:ARG:HH12	3:A5:169:TYR:HA	1.33	0.92
1:A3:1281:LEU:CB	3:A6:625:LEU:HG	1.99	0.92
2:A4:80:LYS:HG3	3:A6:323:THR:CB	2.00	0.92
2:A4:635:ARG:NH1	3:A6:603:ASN:HB2	1.84	0.92
2:A4:975:GLU:N	6:D3:499:LEU:CD1	2.33	0.92
3:A5:1026:PRO:HB2	11:I5:73:TYR:CE1	1.95	0.92
3:A6:485:ASN:N	6:D3:676:ALA:H	1.68	0.92
6:D5:240:ASP:HB3	31:c3:470:ARG:NH2	1.84	0.92
8:F1:1264:ARG:NH1	17:O2:264:ILE:HD13	1.85	0.92
8:F1:1392:LEU:HD21	17:O2:266:GLN:HE22	1.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:C	15:M1:590:LYS:O	2.12	0.92
11:I1:947:LEU:CD1	17:O1:256:TYR:HE2	1.77	0.92
11:I1:966:TRP:CD1	20:R1:165:SER:O	2.23	0.92
11:I1:998:ALA:HB2	17:O1:267:ALA:HB2	1.50	0.92
11:I1:1024:PHE:HB3	16:N1:406:HIS:HB2	1.48	0.92
11:I2:955:LYS:H	16:N3:403:VAL:HG22	1.33	0.92
11:I2:987:GLY:H	15:M3:613:ASP:CB	1.83	0.92
11:I2:1052:LEU:CD2	16:N3:434:LEU:HD11	1.99	0.92
26:X2:317:PHE:HB3	34:i:400:LYS:HZ1	0.81	0.92
26:X2:317:PHE:HD2	34:i:477:GLY:O	1.50	0.92
28:Z1:524:VAL:HA	30:b1:236:THR:CG2	1.97	0.92
28:Z2:524:VAL:C	30:b2:208:ASN:CG	2.38	0.92
1:A3:1201:ARG:HH22	3:A6:537:ALA:HB3	1.34	0.92
1:A3:1225:PRO:HD3	2:A4:723:PHE:O	1.70	0.92
1:A3:1229:VAL:HG22	3:A6:574:ARG:CB	1.99	0.92
1:A3:1259:CYS:N	3:A6:623:SER:HB3	1.82	0.92
2:A4:710:LEU:HD22	3:A6:479:VAL:O	1.67	0.92
2:A4:720:LEU:CD1	3:A6:494:PRO:HA	1.99	0.92
2:A4:757:LEU:HD11	3:A6:95:TYR:O	1.34	0.92
2:A4:824:ASN:ND2	3:A6:158:ALA:HB3	1.85	0.92
2:A4:886:PHE:C	3:A6:175:GLU:CB	2.43	0.92
2:A4:892:SER:CA	3:A6:232:LEU:H	1.83	0.92
3:A6:520:GLU:OE1	6:D3:636:ASP:CA	2.18	0.92
11:I1:931:VAL:C	15:M1:604:ASN:HB2	1.94	0.92
11:I1:946:THR:O	16:N1:407:ALA:HB1	1.67	0.92
21:S1:597:ILE:O	21:S2:1155:GLN:NE2	1.99	0.92
23:U1:35:PRO:HB2	31:c2:556:GLN:HE21	0.76	0.92
28:Z1:443:LEU:HD21	30:b1:250:GLY:HA2	1.52	0.92
28:Z2:402:GLY:C	30:b2:273:LYS:HB3	1.93	0.92
1:A1:1221:ILE:CG2	2:A2:642:ARG:CA	2.45	0.92
1:A3:1201:ARG:CG	3:A6:548:LEU:HB2	2.00	0.92
2:A4:85:VAL:HG12	3:A6:394:LEU:C	1.94	0.92
2:A4:688:TRP:CE3	3:A6:395:MET:CE	2.53	0.92
2:A4:770:GLY:N	3:A6:469:PHE:HB2	1.83	0.92
2:A4:808:GLN:HG3	3:A6:383:PRO:CG	2.00	0.92
3:A5:1399:ARG:CZ	28:Z2:909:LEU:CB	2.46	0.92
3:A6:520:GLU:HB3	6:D3:639:LEU:HG	1.50	0.92
11:I1:953:LEU:H	16:N1:403:VAL:CG1	1.83	0.92
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD12	1.51	0.92
11:I2:890:TYR:HB2	17:O3:238:ALA:O	1.70	0.92
11:I2:951:LYS:HD2	16:N3:402:GLY:C	1.94	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:953:LEU:CD1	15:M3:606:LEU:HB3	2.00	0.92
11:I2:1037:THR:HG21	20:R3:169:GLY:CA	2.00	0.92
11:I3:1271:GLU:CD	26:X1:504:ILE:HG21	1.95	0.92
11:I4:819:MET:CB	26:X3:501:LYS:NZ	2.21	0.92
21:S2:1052:LEU:HD21	21:S2:1073:ILE:HD13	1.50	0.92
23:U1:25:GLU:CB	31:c2:565:GLN:HE21	1.79	0.92
24:V2:681:LYS:N	31:c2:50:CYS:HG	1.64	0.92
28:Z2:443:LEU:HD21	30:b2:250:GLY:HA2	1.52	0.92
1:A1:868:GLN:C	6:D3:280:GLN:HB2	1.95	0.92
2:A2:1135:ARG:NH1	3:A5:167:TRP:HH2	1.55	0.92
1:A3:1221:ILE:CG1	3:A6:498:ARG:O	2.18	0.92
1:A3:1233:GLN:OE1	3:A6:605:TYR:CZ	2.22	0.92
2:A4:898:LEU:HD23	4:B6:344:ALA:HA	1.49	0.92
3:A5:175:GLU:OE2	5:C2:735:ILE:HG12	1.67	0.92
5:C3:732:LYS:HZ1	11:I2:1225:LYS:HD2	0.84	0.92
8:F1:1264:ARG:HH22	17:O2:264:ILE:CD1	1.83	0.92
8:F1:1392:LEU:CD2	17:O2:266:GLN:HE22	1.83	0.92
11:I1:949:CYS:O	16:N1:403:VAL:HG13	1.68	0.92
11:I2:880:MET:O	17:O3:246:LEU:O	1.87	0.92
11:I2:946:THR:N	17:O3:260:LEU:H	1.66	0.92
22:T1:825:ASP:CB	31:c5:23:ARG:CD	2.46	0.92
23:U1:391:HIS:NE2	31:c2:470:ARG:NH1	2.18	0.92
28:Z1:526:ARG:CA	30:b1:206:ASN:CG	2.43	0.92
28:Z1:556:ASN:ND2	30:b1:166:LEU:CD2	2.33	0.92
28:Z2:522:ASN:CB	30:b2:240:LEU:HB3	2.00	0.92
28:Z2:561:GLN:HE22	30:b2:237:LEU:HD12	1.33	0.92
2:A2:878:LEU:HD12	6:D1:608:ILE:HG23	0.93	0.92
2:A2:983:LEU:HB2	6:D1:528:PHE:CZ	2.05	0.92
2:A2:989:MSE:HE1	6:D1:240:ASP:HA	1.34	0.92
2:A2:1160:GLN:OE1	3:A5:178:GLY:CA	2.18	0.92
1:A3:1117:ILE:CD1	3:A6:590:SER:OG	2.17	0.92
1:A3:1281:LEU:HD22	3:A6:577:ASP:HA	1.51	0.92
2:A4:540:GLN:N	3:A6:359:LEU:O	1.95	0.92
2:A4:674:ASP:O	3:A6:98:LEU:O	1.87	0.92
2:A4:729:SER:CB	3:A6:678:LEU:HD23	1.75	0.92
2:A4:879:LEU:CB	6:D3:564:ASN:CB	2.47	0.92
2:A4:1054:SER:CB	6:D4:762:ARG:NE	2.33	0.92
3:A5:1046:LEU:HD11	11:I5:70:GLU:HB2	1.51	0.92
11:I1:945:LEU:HG	17:O1:258:GLU:H	1.20	0.92
11:I1:1045:PHE:CZ	16:N1:435:ALA:N	2.36	0.92
11:I2:1054:ILE:CA	17:O3:281:ALA:H	1.79	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:755:GLU:OE1	31:c5:89:LEU:CD2	2.17	0.92
24:V1:339:LEU:HA	31:c1:627:ASP:CG	1.94	0.92
26:X2:309:LEU:O	34:i:398:ASP:CG	2.00	0.92
26:X2:364:TYR:N	34:i:422:HIS:CD2	2.38	0.92
28:Z1:558:LEU:CA	30:b1:236:THR:N	2.29	0.92
28:Z2:526:ARG:CA	30:b2:206:ASN:CG	2.43	0.92
28:Z2:528:ILE:O	30:b2:184:SER:HB3	0.85	0.92
28:Z2:556:ASN:ND2	30:b2:166:LEU:CD2	2.33	0.92
28:Z3:526:ARG:C	30:b3:206:ASN:CG	2.37	0.92
28:Z4:556:ASN:CA	30:b4:212:PHE:HB2	1.99	0.92
1:A1:1224:PRO:CG	2:A2:731:ILE:CD1	2.39	0.91
2:A2:223:THR:C	6:D1:709:ARG:HH22	1.78	0.91
2:A2:1142:PHE:HZ	3:A5:567:VAL:HG22	0.75	0.91
1:A3:1248:ILE:CG1	3:A6:587:VAL:HG22	1.96	0.91
2:A4:609:GLU:OE2	3:A6:104:PRO:O	1.88	0.91
2:A4:701:ILE:HD12	3:A6:466:ALA:HB3	1.50	0.91
2:A4:780:GLU:HA	6:D3:679:ILE:HD11	1.40	0.91
2:A4:982:THR:HB	6:D3:494:LEU:C	1.94	0.91
3:A5:999:SER:HA	11:I5:62:GLU:C	1.72	0.91
3:A6:444:ARG:HD2	6:D3:733:ALA:HB2	0.92	0.91
9:G1:263:MET:HE2	16:N2:411:GLN:HG2	1.51	0.91
11:I1:959:SER:HB3	20:R1:166:LEU:HD21	1.52	0.91
11:I1:1667:GLN:HB2	11:I2:1664:PHE:H	1.33	0.91
11:I2:952:LEU:HD11	17:O3:250:LEU:CD1	1.82	0.91
11:I2:1054:ILE:H	17:O3:282:LYS:N	1.32	0.91
21:S1:597:ILE:CB	21:S2:1119:LEU:N	2.33	0.91
21:S4:1052:LEU:HD21	21:S4:1073:ILE:HD13	1.50	0.91
23:U2:397:ASP:CG	31:c4:537:THR:OG1	2.12	0.91
26:X2:279:ALA:CB	34:i:15:GLN:H	1.82	0.91
26:X2:279:ALA:CB	34:i:15:GLN:N	2.32	0.91
28:Z1:554:PHE:CD1	30:b1:232:PRO:CB	2.51	0.91
28:Z2:524:VAL:HG21	30:b2:236:THR:O	1.18	0.91
28:Z3:556:ASN:CA	30:b3:212:PHE:HB2	1.99	0.91
1:A1:834:GLU:C	6:D3:302:PRO:CB	2.43	0.91
1:A1:1054:SER:OG	6:D1:809:ALA:HB1	1.70	0.91
1:A1:1332:ARG:HD2	6:D1:636:ASP:OD1	1.69	0.91
2:A2:872:ALA:HB2	6:D1:565:MET:HE3	1.52	0.91
1:A3:1231:VAL:HG13	3:A6:617:VAL:HG23	0.92	0.91
1:A3:1285:LEU:CA	3:A6:581:LYS:NZ	0.77	0.91
2:A4:711:VAL:H	3:A6:480:VAL:HG21	1.35	0.91
2:A4:780:GLU:HA	3:A6:522:GLY:C	1.94	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:789:LEU:CD2	3:A6:146:LYS:HA	1.97	0.91
2:A4:867:GLU:N	6:D3:605:THR:CG2	2.32	0.91
2:A4:870:HIS:CB	6:D3:566:PHE:CE1	2.53	0.91
2:A4:1055:ARG:CD	6:D4:762:ARG:CA	2.45	0.91
3:A6:1368:GLN:HB2	28:Z4:878:HIS:CB	2.01	0.91
6:D7:530:ARG:HG2	11:I3:181:GLN:CB	2.00	0.91
9:G1:255:LEU:CA	15:M2:602:MET:HB3	1.98	0.91
11:I1:797:LEU:HD22	17:O1:245:GLU:CG	2.00	0.91
11:I1:895:ARG:C	17:O1:233:THR:HA	1.93	0.91
11:I1:931:VAL:HG22	15:M1:604:ASN:CA	2.00	0.91
11:I1:976:ARG:NH2	15:M1:622:VAL:HG21	1.85	0.91
11:I2:828:VAL:HG12	17:O3:237:PRO:CG	2.00	0.91
11:I2:984:GLU:OE2	15:M3:618:GLN:CB	2.17	0.91
11:I2:1049:LEU:HD11	17:O3:291:ASP:OD1	1.69	0.91
11:I4:1279:THR:HG21	26:X3:520:GLU:HB2	1.52	0.91
11:I5:1279:THR:OG1	26:X2:520:GLU:CB	2.06	0.91
26:X2:291:LEU:HA	34:i:415:SER:HB2	0.93	0.91
26:X2:293:LYS:HG2	34:i:450:GLU:OE2	1.68	0.91
1:A1:1222:ALA:HB2	2:A2:615:LEU:HD12	0.93	0.91
2:A2:823:VAL:CA	2:A2:856:PHE:CE1	1.98	0.91
2:A2:1142:PHE:HE2	3:A5:567:VAL:HB	1.30	0.91
1:A3:1052:THR:HG1	6:D3:816:VAL:HB	1.25	0.91
1:A3:1261:TYR:CD1	3:A6:621:GLN:HB2	1.44	0.91
1:A3:1332:ARG:HB2	3:A6:127:HIS:HE1	1.28	0.91
2:A4:652:PRO:CG	3:A6:542:LEU:HD13	1.99	0.91
2:A4:684:VAL:HG21	3:A6:395:MET:CG	2.00	0.91
2:A4:802:TYR:CG	3:A6:397:LEU:HD23	2.05	0.91
2:A4:815:ALA:O	3:A6:527:GLU:HB3	1.67	0.91
2:A4:860:GLU:OE1	3:A6:129:ASN:HB3	1.69	0.91
2:A4:897:ASN:ND2	3:A6:165:PHE:CB	2.30	0.91
2:A4:984:ALA:O	6:D3:498:GLU:HA	1.71	0.91
3:A5:160:ILE:HD12	5:C2:743:LEU:HD12	1.51	0.91
3:A5:1026:PRO:HB3	11:I5:73:TYR:CD1	2.01	0.91
3:A5:1151:THR:HA	5:C5:733:LEU:HD12	1.49	0.91
3:A5:1406:GLY:N	28:Z2:917:ASP:O	2.02	0.91
11:I1:1048:GLU:OE2	20:R1:143:PHE:HB2	1.70	0.91
11:I1:1068:HIS:HE1	16:N1:431:VAL:HB	1.32	0.91
11:I2:881:ILE:CB	17:O3:249:ARG:C	2.38	0.91
11:I2:977:ASN:O	20:R3:148:ALA:C	2.12	0.91
11:I2:1035:GLN:CA	15:M3:626:HIS:HB2	1.74	0.91
11:I3:1278:ALA:HB2	26:X1:516:ASN:O	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:434:THR:O	31:c2:479:ILE:HG22	1.70	0.91
26:X2:367:SER:C	34:i:441:LEU:HD22	1.92	0.91
28:Z1:555:LYS:HE3	30:b1:216:LEU:HD22	1.31	0.91
2:A2:827:ILE:CD1	2:A2:859:GLN:N	2.34	0.91
2:A2:827:ILE:HD13	2:A2:859:GLN:N	1.65	0.91
2:A2:1151:THR:HA	5:C2:733:LEU:HA	1.52	0.91
1:A3:835:THR:CG2	6:D1:302:PRO:HG2	1.97	0.91
1:A3:1226:LEU:HD22	3:A6:550:VAL:CA	2.00	0.91
1:A3:1321:MET:CE	3:A6:126:ARG:HH22	1.83	0.91
2:A4:540:GLN:H	3:A6:359:LEU:C	1.76	0.91
2:A4:701:ILE:HG21	3:A6:481:ARG:CB	1.98	0.91
2:A4:713:ILE:HB	3:A6:462:LEU:CD1	1.96	0.91
2:A4:765:GLU:CB	3:A6:559:PHE:CZ	2.37	0.91
2:A4:978:ASP:O	6:D3:475:ALA:CB	2.17	0.91
2:A4:983:LEU:CD2	6:D3:497:PHE:CE1	2.51	0.91
3:A5:153:ILE:CB	5:C2:739:MET:HE1	2.00	0.91
3:A5:220:VAL:CG1	5:C2:739:MET:CB	2.42	0.91
3:A6:484:PRO:HG2	6:D3:672:GLU:CD	1.94	0.91
3:A6:523:ASN:ND2	6:D3:635:ALA:HB3	1.84	0.91
3:A6:1403:MSE:CG	26:X4:742:ALA:C	2.34	0.91
5:C1:732:LYS:CE	11:I1:1228:GLU:HG3	2.00	0.91
8:F2:1091:SER:O	17:O4:244:GLU:HB3	1.71	0.91
11:I1:1030:ARG:CG	20:R1:179:LYS:HE2	2.00	0.91
11:I1:1605:LEU:HB2	11:I2:1669:ARG:CZ	2.01	0.91
11:I2:947:LEU:CD2	17:O3:256:TYR:OH	2.15	0.91
11:I2:947:LEU:CD1	16:N3:407:ALA:O	2.18	0.91
11:I2:978:LYS:HE2	20:R3:153:GLN:N	1.82	0.91
11:I2:1034:ASP:HB2	15:M3:630:LEU:HD13	1.48	0.91
21:S1:671:ALA:HA	21:S2:1145:LYS:CB	2.00	0.91
23:U2:75:TRP:CE2	31:c4:475:ALA:CB	2.53	0.91
26:X2:191:ILE:CB	34:i:443:THR:HB	2.01	0.91
28:Z2:402:GLY:HA3	30:b2:254:SER:HG	1.14	0.91
28:Z4:526:ARG:C	30:b4:206:ASN:CG	2.37	0.91
1:A1:1204:TRP:CD1	2:A2:731:ILE:CG1	2.51	0.91
1:A1:1204:TRP:HZ2	2:A2:676:LEU:HD12	1.12	0.91
1:A3:832:ASN:OD1	6:D1:302:PRO:HB3	1.70	0.91
1:A3:1123:GLU:CB	3:A6:599:ARG:CD	2.39	0.91
2:A4:701:ILE:CG2	3:A6:481:ARG:HB3	2.00	0.91
2:A4:767:ILE:HA	3:A6:470:ARG:CA	1.99	0.91
2:A4:858:ALA:CB	3:A6:174:PRO:O	2.19	0.91
3:A5:1310:ARG:NH2	28:Z2:827:GLN:HA	1.86	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:252:LEU:O	15:M2:602:MET:SD	2.27	0.91
9:G1:257:THR:HA	17:O2:253:LEU:H	1.24	0.91
11:I1:873:ILE:O	17:O1:251:ILE:HG23	1.71	0.91
11:I1:877:ILE:CG2	17:O1:253:LEU:CB	2.33	0.91
11:I1:895:ARG:C	17:O1:233:THR:CA	2.36	0.91
11:I1:950:LEU:CD1	16:N1:406:HIS:O	2.18	0.91
11:I1:1103:LEU:HD11	20:R1:175:GLN:CD	1.94	0.91
11:I1:1667:GLN:CG	11:I2:1665:LEU:CB	2.45	0.91
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CB	2.00	0.91
11:I2:836:VAL:HG12	17:O3:244:GLU:HB2	1.49	0.91
11:I2:1034:ASP:O	16:N3:441:PHE:CD2	2.24	0.91
11:I2:1041:GLN:NE2	15:M3:614:ASP:O	2.02	0.91
17:O2:111:TYR:N	18:P2:325:ILE:CG2	2.29	0.91
21:S2:1016:LYS:HE2	21:S2:1039:GLU:HG3	1.53	0.91
22:T1:736:LEU:N	31:c5:18:SER:O	2.03	0.91
23:U1:172:LYS:HG2	31:c1:506:HIS:C	1.94	0.91
23:U2:395:CYS:C	31:c4:555:VAL:N	2.12	0.91
26:X1:403:HIS:CE1	37:k2:450:HIS:HE2	0.38	0.91
26:X2:324:ILE:HD11	34:i:476:LEU:HD13	1.51	0.91
28:Z1:561:GLN:HB2	30:b1:235:LEU:C	1.95	0.91
28:Z3:526:ARG:CA	30:b3:206:ASN:CG	2.43	0.91
28:Z4:556:ASN:ND2	30:b4:166:LEU:CD2	2.33	0.91
2:A4:732:GLN:CG	3:A6:91:LEU:CD1	2.44	0.91
2:A4:754:HIS:HA	3:A6:543:GLY:CA	2.00	0.91
2:A4:827:ILE:HA	2:A4:860:GLU:CA	1.97	0.91
2:A4:861:GLN:C	6:D3:607:PRO:HG3	1.95	0.91
2:A4:886:PHE:HB3	3:A6:175:GLU:HB2	1.47	0.91
3:A6:520:GLU:HG2	6:D3:639:LEU:HD12	0.93	0.91
3:A6:1393:THR:N	28:Z4:913:ILE:H	1.68	0.91
8:F1:1137:GLN:HA	17:O2:248:SER:HB3	0.94	0.91
11:I1:947:LEU:O	17:O1:253:LEU:CD2	2.18	0.91
11:I1:1029:LEU:HD22	20:R1:174:ARG:CG	2.00	0.91
11:I1:1109:LEU:HD13	17:O1:290:TYR:CE2	0.61	0.91
11:I2:895:ARG:HD3	17:O3:234:LEU:HD12	1.52	0.91
18:P2:320:GLN:HG3	18:P3:278:ASN:CG	1.95	0.91
22:T1:752:ALA:O	31:c5:58:ARG:NE	2.02	0.91
23:U2:24:ILE:CG1	31:c4:482:LEU:O	2.19	0.91
23:U2:391:HIS:CB	31:c4:477:GLU:N	2.34	0.91
23:U2:431:ILE:C	31:c4:464:LEU:CD2	2.44	0.91
28:Z1:438:GLU:HB3	30:b1:314:PRO:CD	2.00	0.91
28:Z3:561:GLN:HB2	30:b3:235:LEU:C	1.96	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:965:LYS:HA	6:D1:199:GLY:HA2	1.52	0.91
2:A2:1167:CYS:SG	4:B5:342:ARG:HG3	2.10	0.91
1:A3:1153:LEU:CD1	3:A6:592:ASP:OD2	2.19	0.91
1:A3:1188:ASN:HD22	3:A6:646:ILE:CG1	1.84	0.91
2:A4:673:HIS:CE1	3:A6:98:LEU:H	1.89	0.91
2:A4:1054:SER:HB2	6:D4:762:ARG:NE	1.85	0.91
3:A5:1310:ARG:O	28:Z2:830:LEU:O	1.89	0.91
3:A6:1368:GLN:HA	28:Z4:875:LEU:HA	1.01	0.91
8:F1:1091:SER:HG	17:O2:241:SER:CB	1.81	0.91
8:F1:1094:GLY:HA3	17:O2:237:PRO:HA	0.92	0.91
8:F1:1266:MET:HA	17:O2:265:ASN:ND2	1.84	0.91
11:I1:963:LEU:HD21	20:R1:176:ARG:NH2	1.85	0.91
11:I1:1038:ILE:C	15:M1:620:VAL:CG2	2.43	0.91
11:I1:1669:ARG:NE	11:I2:1605:LEU:HB2	1.84	0.91
11:I2:923:GLY:HA3	15:M3:591:ASP:C	1.95	0.91
11:I2:1039:ALA:HB2	20:R3:170:LEU:HG	0.92	0.91
11:I3:777:SER:CA	29:a2:40[A]:GLU:CG	2.49	0.91
11:I5:1239:ASP:HB3	29:a2:27:GLN:HE22	1.36	0.91
23:U1:202:LEU:CB	31:c1:632:HIS:C	2.26	0.91
23:U1:405:GLU:HA	31:c2:548:VAL:CG2	2.00	0.91
23:U1:440:ASP:HA	31:c2:463:HIS:HD2	1.36	0.91
28:Z2:561:GLN:HB2	30:b2:235:LEU:C	1.95	0.91
28:Z3:522:ASN:CB	30:b3:240:LEU:HB3	2.00	0.91
28:Z4:531:LYS:CD	30:b4:183:LEU:CA	2.36	0.91
2:A2:227:SER:CB	6:D1:712:ASP:N	2.34	0.91
2:A2:865:ALA:O	6:D1:608:ILE:HD13	1.69	0.91
2:A2:909:LYS:O	6:D1:555:ARG:CD	2.18	0.91
1:A3:1198:GLU:HA	3:A6:682:ARG:HE	1.29	0.91
2:A4:688:TRP:CH2	3:A6:382:SER:HB3	2.04	0.91
2:A4:825:ARG:CB	3:A6:138:LEU:CD1	2.41	0.91
2:A4:897:ASN:HD22	3:A6:165:PHE:CB	1.84	0.91
3:A5:220:VAL:HG22	5:C2:738:ASP:C	1.94	0.91
3:A5:996:ASN:HB3	11:I5:59:LEU:H	1.36	0.91
3:A5:1379:GLY:HA2	28:Z2:816:THR:N	1.85	0.91
3:A6:1398:LYS:HZ2	28:Z4:921:THR:CB	1.77	0.91
8:F1:1258:MET:O	17:O2:259:ASP:OD1	1.89	0.91
11:I1:849:LEU:HD22	17:O1:251:ILE:HD11	1.50	0.91
11:I1:952:LEU:O	16:N1:403:VAL:HG21	1.70	0.91
11:I2:833:PHE:CD1	17:O3:245:GLU:CD	2.49	0.91
11:I2:899:LEU:CD1	17:O3:230:ILE:O	2.18	0.91
11:I2:928:LEU:HD11	20:R3:151:LYS:HE2	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:931:VAL:HA	15:M3:601:ASP:O	1.29	0.91
11:I2:953:LEU:HD12	15:M3:606:LEU:HB3	1.53	0.91
11:I2:1017:VAL:CG1	16:N3:410:MET:HG3	2.01	0.91
11:I2:1017:VAL:HG22	16:N3:411:GLN:CA	1.88	0.91
11:I2:1020:ALA:HB2	16:N3:408:MET:N	1.86	0.91
11:I2:1030:ARG:N	20:R3:172:ASP:C	2.29	0.91
11:I2:1038:ILE:HG23	15:M3:617:THR:HA	1.52	0.91
11:I2:1040:HIS:HB3	16:N3:434:LEU:HD13	1.50	0.91
11:I2:1061:ASP:CB	17:O3:278:GLU:HB2	2.01	0.91
21:S1:659:ARG:C	21:S2:1102:VAL:HG22	1.96	0.91
23:U2:42:PHE:HE1	31:c4:478:SER:N	1.55	0.91
23:U2:394:ILE:HG23	31:c4:535:VAL:CB	2.01	0.91
26:X2:333:GLU:HG2	34:i:475:ILE:HB	1.52	0.91
26:X2:366:PRO:C	34:i:366:PHE:CZ	2.48	0.91
28:Z3:524:VAL:C	30:b3:208:ASN:CG	2.38	0.91
28:Z4:443:LEU:HD21	30:b4:250:GLY:HA2	1.52	0.91
1:A3:1189:LEU:HD11	3:A6:579:PHE:CD1	2.02	0.91
1:A3:1228:TYR:C	3:A6:576:VAL:H	1.79	0.91
1:A3:1271:ILE:CG2	3:A6:553:ASP:CB	2.05	0.91
2:A4:670:SER:O	3:A6:97:ASP:OD2	1.88	0.91
2:A4:908:LEU:HD21	6:D3:601:PHE:C	1.94	0.91
2:A4:974:PRO:C	6:D3:499:LEU:CG	2.43	0.91
3:A5:1312:ARG:CD	28:Z2:832:PHE:O	2.05	0.91
3:A6:1365:VAL:CA	28:Z4:878:HIS:HA	2.00	0.91
11:I1:990:GLU:OE2	15:M1:611:LYS:NZ	1.99	0.91
11:I3:815:ILE:CG2	26:X1:497:ARG:H	1.84	0.91
11:I4:1277:LEU:CG	26:X3:517:ASP:CB	2.47	0.91
11:I4:1282:PHE:CE1	29:a3:23[A]:PRO:HB2	1.97	0.91
23:U2:35:PRO:O	31:c4:559:ILE:N	1.94	0.91
23:U2:360:HIS:HB2	31:c4:544:VAL:HG12	1.50	0.91
26:X2:295:TYR:OH	34:i:447:CYS:HA	1.20	0.91
26:X2:299:SER:HB3	34:i:369:VAL:HB	1.51	0.91
26:X2:302:THR:HG22	34:i:416:VAL:CG2	1.99	0.91
28:Z2:556:ASN:CA	30:b2:212:PHE:HB2	1.99	0.91
1:A1:870:HIS:HD2	6:D3:280:GLN:HA	1.34	0.91
1:A1:873:PRO:CG	6:D3:218:LYS:HZ3	1.83	0.91
2:A2:874:VAL:CG1	6:D1:611:LYS:HG2	2.01	0.91
2:A2:1054:SER:O	6:D2:762:ARG:HB3	1.15	0.91
1:A3:1166:LEU:H	3:A6:648:TYR:HE2	0.99	0.91
2:A4:535:PHE:CD2	3:A6:368:SER:O	2.24	0.91
2:A4:679:TYR:N	3:A6:101:TYR:O	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:723:PHE:CB	3:A6:495:ASP:C	2.03	0.91
2:A4:754:HIS:HA	3:A6:543:GLY:HA3	1.50	0.91
2:A4:855:THR:HG21	3:A6:167:TRP:O	1.69	0.91
2:A4:878:LEU:CA	6:D3:567:LEU:CD1	2.48	0.91
2:A4:886:PHE:CB	3:A6:175:GLU:HB3	1.95	0.91
2:A4:975:GLU:C	6:D3:501:LEU:CB	2.42	0.91
3:A6:1367:THR:HG22	28:Z4:876:LEU:H	1.34	0.91
11:I1:919:ALA:HB3	16:N1:389:PHE:HA	1.52	0.91
11:I1:931:VAL:CG2	15:M1:604:ASN:CG	2.44	0.91
11:I1:954:GLU:HB2	16:N1:402:GLY:C	1.94	0.91
11:I1:962:ILE:CD1	15:M1:596:ILE:HG22	1.99	0.91
11:I1:1021:ILE:H	16:N1:409:ALA:HB3	1.31	0.91
11:I1:1023:ASP:CB	16:N1:405:ALA:HB1	2.01	0.91
11:I1:1061:ASP:HA	17:O1:279:ILE:CD1	2.00	0.91
11:I1:1101:LEU:CD2	16:N1:432:TYR:CE1	2.54	0.91
11:I1:1109:LEU:CD1	17:O1:290:TYR:CE2	0.88	0.91
11:I2:894:VAL:CB	17:O3:239:GLN:N	1.79	0.91
11:I2:934:LEU:O	15:M3:606:LEU:N	1.84	0.91
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:HA3	2.05	0.91
26:X2:362:LEU:HD23	34:i:446:LYS:O	1.70	0.91
28:Z2:438:GLU:HB3	30:b2:314:PRO:CD	2.00	0.91
28:Z3:556:ASN:ND2	30:b3:166:LEU:CD2	2.33	0.91
28:Z4:438:GLU:HB3	30:b4:314:PRO:CD	2.00	0.91
28:Z4:522:ASN:CG	30:b4:241:PRO:HB3	1.94	0.91
28:Z4:526:ARG:CA	30:b4:206:ASN:CG	2.43	0.91
2:A2:980:ARG:N	6:D1:473:GLU:HG3	1.86	0.90
2:A2:1155:ASN:HD22	3:A5:177:ILE:HG12	1.36	0.90
1:A3:1162:ASN:CB	3:A6:649:GLY:H	1.83	0.90
2:A4:90:GLN:H	3:A6:407:SER:H	0.93	0.90
2:A4:92:ASP:OD1	3:A6:104:PRO:CA	2.19	0.90
2:A4:670:SER:N	3:A6:542:LEU:CD1	2.34	0.90
2:A4:867:GLU:CG	6:D3:605:THR:CG2	2.38	0.90
3:A5:160:ILE:CD1	5:C2:743:LEU:HD12	2.00	0.90
3:A5:1392:ARG:NH1	28:Z2:867:LYS:H	1.69	0.90
11:I1:873:ILE:O	17:O1:251:ILE:HG22	1.64	0.90
11:I1:947:LEU:HG	16:N1:408:MET:HA	1.51	0.90
11:I1:981:VAL:HG13	20:R1:151:LYS:HG3	1.51	0.90
11:I1:1049:LEU:CD1	15:M1:626:HIS:NE2	2.00	0.90
11:I2:895:ARG:HD3	17:O3:234:LEU:CD1	2.01	0.90
11:I2:939:ASN:CB	17:O3:265:ASN:OD1	2.10	0.90
11:I2:990:GLU:CA	17:O3:272:SER:HA	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1036:PRO:HG3	17:O3:287:LEU:CD2	2.01	0.90
11:I2:1051:LYS:HE2	17:O3:289:ASP:CG	1.94	0.90
11:I2:1109:LEU:HD21	17:O3:287:LEU:HD12	1.51	0.90
11:I3:1277:LEU:HD21	26:X1:513:PHE:HB3	0.92	0.90
11:I4:1282:PHE:CD1	29:a3:23[A]:PRO:HB2	2.05	0.90
28:Z2:561:GLN:HB2	30:b2:236:THR:H	1.10	0.90
28:Z3:443:LEU:HD21	30:b3:250:GLY:HA2	1.52	0.90
28:Z3:534:ASP:HA	30:b3:164:CYS:CB	2.02	0.90
1:A1:1393:THR:N	2:A2:851:ASP:OD1	2.04	0.90
1:A1:1399:ARG:HG2	2:A2:884:ARG:CB	1.94	0.90
2:A2:868:GLN:O	6:D1:598:ILE:HB	1.70	0.90
2:A2:982:THR:CB	6:D1:494:LEU:HA	2.00	0.90
1:A3:1052:THR:HG23	6:D3:812:VAL:O	1.68	0.90
1:A3:1274:ASP:CB	3:A6:556:PRO:C	2.30	0.90
2:A4:553:ASP:OD1	3:A6:434:PHE:HA	0.73	0.90
2:A4:772:SER:C	3:A6:489:LEU:CD1	2.43	0.90
2:A4:867:GLU:CD	6:D3:605:THR:HB	1.94	0.90
2:A4:879:LEU:HD12	6:D3:564:ASN:ND2	1.85	0.90
2:A4:944:SER:C	4:B6:351:GLU:CA	1.91	0.90
2:A4:947:LYS:HD2	3:A6:203:ILE:HD11	1.51	0.90
6:D5:715:GLU:CB	31:c4:505:SER:OG	2.10	0.90
11:I1:881:ILE:H	17:O1:250:LEU:N	1.68	0.90
11:I1:966:TRP:CZ3	20:R1:167:GLN:CG	2.38	0.90
11:I1:1026:TYR:CE1	20:R1:175:GLN:CD	2.30	0.90
11:I1:1110:SER:OG	16:N1:437:VAL:CB	2.08	0.90
11:I1:1665:LEU:CD2	11:I2:1667:GLN:O	2.18	0.90
11:I2:790:LEU:HD22	17:O3:251:ILE:HD13	1.53	0.90
11:I2:964:SER:N	20:R3:165:SER:CB	2.24	0.90
11:I2:1040:HIS:CB	16:N3:434:LEU:HD13	2.01	0.90
11:I2:1058:GLY:HA3	17:O3:277:GLU:C	1.95	0.90
11:I2:1105:TRP:CD2	16:N3:432:TYR:OH	2.11	0.90
11:I2:1106:LYS:CB	16:N3:440:GLU:HG3	2.00	0.90
17:O2:112:GLY:HA3	18:P2:325:ILE:CG2	2.00	0.90
23:U2:75:TRP:CZ3	31:c4:476:PRO:HD3	2.06	0.90
28:Z3:438:GLU:HB3	30:b3:314:PRO:CD	2.00	0.90
28:Z3:528:ILE:HG13	30:b3:210:ARG:CZ	1.95	0.90
28:Z4:522:ASN:CB	30:b4:240:LEU:HB3	2.00	0.90
28:Z4:534:ASP:HA	30:b4:164:CYS:CB	2.02	0.90
28:Z4:554:PHE:CE2	30:b4:234:LEU:HA	2.06	0.90
1:A1:1220:PRO:O	2:A2:646:ILE:N	2.04	0.90
2:A2:909:LYS:CA	6:D1:552:TYR:OH	2.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1161:ALA:O	3:A5:137:HIS:CE1	2.25	0.90
2:A2:1161:ALA:O	3:A5:137:HIS:HE1	1.54	0.90
1:A3:1233:GLN:OE1	2:A4:726:ALA:CB	2.20	0.90
1:A3:1281:LEU:HD21	3:A6:580:ALA:HB3	1.53	0.90
1:A3:1366:LEU:CD1	3:A6:226:PRO:O	2.19	0.90
2:A4:680:LEU:HD23	3:A6:470:ARG:NH2	1.77	0.90
2:A4:682:ARG:HD3	3:A6:106:ALA:CA	2.02	0.90
2:A4:688:TRP:HE1	3:A6:394:LEU:CG	1.82	0.90
2:A4:750:ASN:ND2	3:A6:90:GLN:HG2	1.85	0.90
2:A4:769:GLU:HB2	3:A6:471:PHE:HE2	1.23	0.90
2:A4:775:LEU:HB2	3:A6:489:LEU:HD13	1.49	0.90
2:A4:791:ALA:N	3:A6:187:THR:CG2	2.09	0.90
2:A4:921:VAL:CG2	3:A6:175:GLU:OE2	2.18	0.90
8:F1:1265:GLN:O	17:O2:265:ASN:HB2	1.68	0.90
11:I1:880:MET:HE1	15:M1:598:GLU:OE1	1.70	0.90
11:I1:976:ARG:CA	20:R1:149:ARG:HB3	2.00	0.90
11:I1:1043:LEU:CA	16:N1:430:ARG:HB2	2.01	0.90
11:I1:1611:PHE:C	11:I2:1673:VAL:CA	2.44	0.90
11:I2:985:ARG:H	15:M3:613:ASP:CA	1.58	0.90
22:T1:741:ASP:OD2	31:c5:24:GLN:HB2	1.65	0.90
23:U1:24:ILE:CG1	31:c2:467:GLU:OE2	2.17	0.90
28:Z4:554:PHE:CD1	30:b4:232:PRO:CB	2.51	0.90
1:A1:1222:ALA:HB1	2:A2:615:LEU:HD11	1.49	0.90
2:A2:971:ALA:O	6:D1:203:PRO:CG	2.18	0.90
1:A3:1201:ARG:HH21	3:A6:537:ALA:HB1	1.34	0.90
1:A3:1202:GLU:CG	3:A6:91:LEU:CB	2.46	0.90
1:A3:1242:THR:CG2	3:A6:587:VAL:CB	1.98	0.90
1:A3:1274:ASP:C	3:A6:556:PRO:CD	2.30	0.90
1:A3:1394:VAL:HG23	3:A6:227:SER:HA	1.53	0.90
2:A4:172:PRO:HB3	6:D3:781:ARG:HD3	1.51	0.90
2:A4:535:PHE:CG	3:A6:368:SER:O	2.25	0.90
2:A4:702:SER:CB	3:A6:379:VAL:HG12	1.85	0.90
2:A4:722:ASN:CB	3:A6:513:GLN:HG3	1.98	0.90
2:A4:761:GLN:HG3	3:A6:545:GLY:HA2	1.54	0.90
2:A4:860:GLU:HG3	3:A6:135:PHE:CE2	2.07	0.90
2:A4:982:THR:HB	6:D3:494:LEU:CA	2.01	0.90
3:A5:1024:ASP:OD1	11:I5:96:GLU:C	1.97	0.90
6:D5:718:LYS:CD	31:c4:504:ASN:HD21	1.80	0.90
11:I1:1023:ASP:HB2	16:N1:405:ALA:CB	2.02	0.90
11:I1:1041:GLN:HB3	15:M1:620:VAL:HG21	1.52	0.90
11:I1:1669:ARG:CB	11:I2:1664:PHE:HZ	1.43	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:917:TYR:O	15:M3:588:MET:CG	2.18	0.90
11:I2:950:LEU:CD2	16:N3:410:MET:SD	2.60	0.90
11:I2:1018:LYS:HE3	16:N3:413:VAL:O	1.71	0.90
11:I2:1040:HIS:HB3	16:N3:434:LEU:CD1	2.01	0.90
11:I3:1270:LYS:N	26:X1:529:TRP:N	2.20	0.90
11:I3:1275:SER:CA	26:X1:522:MET:HB3	2.02	0.90
21:S4:138:VAL:HG11	21:S4:170:THR:HG22	1.54	0.90
23:U1:19:LEU:HD12	31:c2:470:ARG:HD2	0.91	0.90
23:U1:38:ILE:HG23	31:c2:473:THR:CB	2.01	0.90
23:U1:399:ILE:HG13	31:c2:556:GLN:CD	1.95	0.90
26:X2:191:ILE:CB	34:i:443:THR:CG2	2.49	0.90
28:Z2:528:ILE:HG13	30:b2:210:ARG:CZ	1.95	0.90
28:Z2:534:ASP:HA	30:b2:164:CYS:CB	2.02	0.90
28:Z2:534:ASP:CG	30:b2:183:LEU:HB2	1.97	0.90
28:Z2:541:PRO:CD	30:b2:180:GLY:HA3	2.01	0.90
28:Z3:561:GLN:HB2	30:b3:236:THR:H	1.10	0.90
1:A3:1257:VAL:HG12	3:A6:620:GLY:H	1.22	0.90
1:A3:1271:ILE:HG21	3:A6:550:VAL:HA	1.53	0.90
2:A4:724:LEU:CD2	3:A6:496:THR:CA	1.81	0.90
2:A4:772:SER:HA	3:A6:489:LEU:CD1	2.02	0.90
2:A4:774:VAL:HA	3:A6:467:LEU:CD1	2.02	0.90
2:A4:804:GLN:CD	3:A6:317:GLY:C	2.39	0.90
2:A4:873:PRO:CG	6:D3:572:GLU:CD	2.44	0.90
2:A4:909:LYS:HD2	6:D3:555:ARG:NH1	1.86	0.90
2:A4:911:TYR:HE2	6:D3:555:ARG:HH21	0.95	0.90
2:A4:946:LYS:HB2	4:B6:351:GLU:N	1.86	0.90
2:A4:947:LYS:N	4:B6:351:GLU:HB3	1.75	0.90
2:A4:949:PHE:CA	4:B6:348:PRO:HD3	2.00	0.90
3:A5:1405:LEU:H	28:Z2:918:PHE:H	0.94	0.90
3:A6:521:ASN:H	6:D3:639:LEU:HD21	1.35	0.90
11:I1:833:PHE:CZ	17:O1:238:ALA:O	2.25	0.90
11:I1:956:ILE:HG22	20:R1:166:LEU:CB	1.84	0.90
11:I2:841:PHE:CD2	15:M3:588:MET:HE2	2.07	0.90
11:I2:955:LYS:H	16:N3:403:VAL:HG23	0.75	0.90
11:I2:981:VAL:HA	20:R3:147:LEU:CD2	1.86	0.90
11:I2:1031:ALA:H	20:R3:173:LEU:N	1.69	0.90
11:I2:1038:ILE:HD13	15:M3:620:VAL:HB	1.49	0.90
11:I3:1275:SER:CB	26:X1:508:LEU:HD11	2.02	0.90
21:S3:676:GLU:CB	21:S4:1146:ALA:CB	2.48	0.90
23:U2:387:ARG:HD2	31:c4:477:GLU:OE1	1.70	0.90
26:X1:401:LYS:NZ	37:k2:450:HIS:CB	2.35	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:208:LEU:HD21	34:i:445:GLN:NE2	1.87	0.90
26:X2:307:LYS:CE	34:i:402:PRO:C	2.11	0.90
26:X2:336:LEU:HD11	34:i:478:PRO:HD3	0.93	0.90
28:Z2:554:PHE:CD1	30:b2:232:PRO:CB	2.51	0.90
28:Z3:541:PRO:CD	30:b3:180:GLY:HA3	2.01	0.90
1:A1:1229:VAL:HB	2:A2:725:GLU:HB3	1.54	0.90
1:A3:1188:ASN:HB3	3:A6:645:PHE:CD1	2.06	0.90
1:A3:1248:ILE:CA	3:A6:587:VAL:HG13	2.02	0.90
1:A3:1271:ILE:CB	3:A6:553:ASP:HB2	2.01	0.90
2:A4:802:TYR:CD1	3:A6:397:LEU:CD2	2.53	0.90
2:A4:942:ASN:CG	4:B6:355:PRO:O	2.15	0.90
2:A4:973:GLU:HA	6:D3:205:LEU:HB3	0.91	0.90
3:A5:175:GLU:OE1	5:C2:733:LEU:HD21	1.70	0.90
3:A5:1033:GLN:HE21	11:I5:70:GLU:HB3	0.75	0.90
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CA	2.50	0.90
11:I1:849:LEU:HD13	17:O1:247:TRP:CD2	2.06	0.90
11:I1:874:LEU:HD23	17:O1:252:VAL:CB	2.00	0.90
11:I1:956:ILE:HG22	20:R1:166:LEU:HB2	0.91	0.90
11:I1:1607:GLN:CG	11:I2:1739:GLU:H	1.85	0.90
11:I1:1672:VAL:HG22	11:I2:1611:PHE:CB	2.01	0.90
11:I2:911:PRO:CB	15:M3:584:GLN:HE21	1.58	0.90
11:I3:1271:GLU:N	26:X1:529:TRP:N	2.18	0.90
11:I3:1278:ALA:O	26:X1:520:GLU:HG2	1.69	0.90
21:S1:654:LYS:O	21:S2:1154:GLY:O	1.88	0.90
21:S2:176:MET:CE	21:S2:212:LEU:HD11	2.02	0.90
21:S4:176:MET:CE	21:S4:212:LEU:HD11	2.02	0.90
26:X2:287:ASP:CG	34:i:480[B]:MET:HB2	1.89	0.90
26:X2:312:LYS:HB2	34:i:397:ARG:O	1.72	0.90
28:Z2:555:LYS:HG3	30:b2:233:TRP:HE3	1.32	0.90
1:A1:834:GLU:CB	6:D3:302:PRO:CB	2.50	0.90
2:A2:825:ARG:HD3	6:D1:633:LYS:NZ	1.85	0.90
2:A4:717:VAL:HA	3:A6:512:GLU:CD	1.95	0.90
2:A4:772:SER:CB	3:A6:477:PHE:CD1	2.38	0.90
2:A4:875:LEU:O	6:D3:564:ASN:CB	2.19	0.90
3:A5:159:SER:HB3	5:C2:742:ASP:O	1.72	0.90
3:A5:1365:VAL:HA	28:Z2:841:ALA:HB3	0.91	0.90
8:F1:1094:GLY:HA3	17:O2:237:PRO:C	1.95	0.90
8:F1:1202:TYR:C	17:O2:252:VAL:HA	1.96	0.90
11:I1:1032:THR:N	20:R1:176:ARG:O	1.90	0.90
11:I1:1677:LYS:HD2	11:I2:1635:HIS:HE1	1.28	0.90
11:I2:985:ARG:N	15:M3:613:ASP:HA	1.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1110:SER:CB	16:N3:438:LEU:N	2.32	0.90
23:U2:394:ILE:HD12	31:c4:535:VAL:O	1.71	0.90
26:X2:204:PHE:HA	34:i:443:THR:O	1.72	0.90
26:X2:366:PRO:C	34:i:366:PHE:CE1	2.50	0.90
28:Z1:394:ASP:OD2	30:b1:241:PRO:C	2.15	0.90
28:Z1:522:ASN:CB	30:b1:240:LEU:HB3	2.00	0.90
28:Z1:554:PHE:CE2	30:b1:234:LEU:HA	2.06	0.90
28:Z2:554:PHE:CE2	30:b2:234:LEU:HA	2.06	0.90
28:Z3:535:ILE:CG1	30:b3:182:PRO:CG	2.48	0.90
28:Z4:555:LYS:HE3	30:b4:216:LEU:HD23	1.53	0.90
28:Z4:561:GLN:HB2	30:b4:235:LEU:C	1.95	0.90
1:A1:1399:ARG:CG	2:A2:884:ARG:CG	2.31	0.90
2:A2:823:VAL:C	2:A2:856:PHE:CE1	2.49	0.90
2:A2:826:ASN:CB	6:D1:633:LYS:CB	2.41	0.90
1:A3:1168:LEU:H	3:A6:594:LEU:CD2	1.84	0.90
1:A3:1195:PHE:CA	3:A6:678:LEU:HB3	2.01	0.90
1:A3:1199:GLN:CA	2:A4:729:SER:O	2.20	0.90
1:A3:1200:ARG:N	2:A4:729:SER:O	1.64	0.90
1:A3:1280:GLN:OE1	3:A6:125:VAL:HB	1.71	0.90
2:A4:89:LEU:HD11	3:A6:404:LEU:O	1.11	0.90
2:A4:677:ALA:N	3:A6:98:LEU:O	1.79	0.90
2:A4:677:ALA:HB1	3:A6:98:LEU:CG	1.84	0.90
2:A4:826:ASN:HD21	6:D3:633:LYS:HB3	1.35	0.90
2:A4:880:ALA:HA	6:D3:558:LYS:HE3	1.53	0.90
2:A4:886:PHE:HZ	3:A6:176:LEU:HG	1.07	0.90
2:A4:909:LYS:CD	6:D3:555:ARG:NH1	2.30	0.90
2:A4:988:ARG:HD2	6:D3:500:LYS:CG	2.01	0.90
9:G1:262:SER:O	16:N2:411:GLN:CG	2.19	0.90
11:I1:931:VAL:O	15:M1:605:THR:N	2.04	0.90
11:I1:934:LEU:H	15:M1:602:MET:HA	1.32	0.90
11:I1:947:LEU:HG	16:N1:408:MET:CA	2.02	0.90
11:I1:980:ILE:O	15:M1:618:GLN:HA	1.72	0.90
11:I1:1052:LEU:CD1	17:O1:287:LEU:CD1	2.48	0.90
11:I1:1061:ASP:HA	17:O1:279:ILE:HD11	1.53	0.90
11:I1:1108:PRO:HB3	16:N1:443:GLU:CB	2.00	0.90
11:I1:1114:VAL:HG23	16:N1:435:ALA:HB3	1.46	0.90
11:I2:875:ARG:C	17:O3:251:ILE:CG2	1.78	0.90
11:I4:1282:PHE:CE2	29:a3:22:PRO:CB	2.55	0.90
21:S3:138:VAL:HG11	21:S3:170:THR:HG22	1.53	0.90
28:Z3:394:ASP:OD2	30:b3:241:PRO:C	2.15	0.90
28:Z4:524:VAL:C	30:b4:208:ASN:CG	2.38	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:554:PHE:CZ	30:b4:234:LEU:HA	2.07	0.90
1:A1:868:GLN:O	6:D3:277:ASN:N	2.05	0.90
2:A2:876:ARG:NH1	6:D1:563:GLU:N	2.06	0.90
1:A3:1224:PRO:HB2	3:A6:548:LEU:HD12	0.92	0.90
2:A4:93:ASP:O	3:A6:361:ASP:HA	1.72	0.90
2:A4:556:PRO:HG2	3:A6:454:GLN:HB2	1.53	0.90
2:A4:610:THR:OG1	3:A6:506:SER:CB	2.12	0.90
2:A4:712:THR:OG1	3:A6:462:LEU:HG	1.72	0.90
2:A4:855:THR:HG22	3:A6:169:TYR:N	1.86	0.90
3:A5:1395:LYS:HE2	28:Z2:872:TYR:CB	2.02	0.90
11:I1:882:LYS:CB	17:O1:245:GLU:CB	2.47	0.90
11:I1:883:ALA:HB3	17:O1:246:LEU:CA	2.01	0.90
11:I1:1063:GLN:C	16:N1:428:ASP:HB2	1.96	0.90
11:I1:1065:SER:OG	16:N1:430:ARG:CG	2.20	0.90
11:I2:939:ASN:HB3	17:O3:265:ASN:ND2	1.85	0.90
11:I2:952:LEU:CD2	15:M3:602:MET:CG	2.49	0.90
11:I2:961:ARG:NH2	16:N3:388:LYS:HB3	1.87	0.90
11:I3:1276:GLN:HE21	26:X1:535:ALA:CA	1.84	0.90
21:S3:679:ILE:HA	21:S4:1144:LEU:CD1	1.94	0.90
22:T1:819:ASN:OD1	31:c5:57:GLU:CD	2.15	0.90
26:X2:286:SER:O	34:i:492:TRP:CZ2	2.24	0.90
26:X2:317:PHE:HB2	34:i:400:LYS:HZ1	1.33	0.90
26:X2:367:SER:O	34:i:424:LEU:HD23	1.71	0.90
33:h:88:LEU:O	33:h:88:LEU:HD12	1.71	0.90
1:A3:1162:ASN:HB2	3:A6:649:GLY:H	1.33	0.90
1:A3:1311:ARG:HG2	3:A6:712:THR:HG22	1.53	0.90
2:A4:684:VAL:HG23	3:A6:395:MET:CG	2.00	0.90
2:A4:769:GLU:CA	3:A6:528:ILE:HG21	2.01	0.90
2:A4:860:GLU:CG	6:D3:606:LYS:HB3	2.01	0.90
2:A4:896:ALA:C	3:A6:165:PHE:CA	2.41	0.90
2:A4:898:LEU:HD23	4:B6:344:ALA:CA	2.01	0.90
2:A4:954:ILE:CG1	4:B6:346:LEU:N	2.35	0.90
3:A5:1026:PRO:O	11:I5:67:LYS:C	2.15	0.90
3:A5:1363:ASP:CA	28:Z2:875:LEU:CB	2.48	0.90
11:I1:934:LEU:HA	15:M1:602:MET:SD	2.10	0.90
11:I1:1013:GLU:O	16:N1:411:GLN:O	1.88	0.90
11:I1:1038:ILE:N	20:R1:169:GLY:CA	2.34	0.90
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD11	1.52	0.90
11:I1:1049:LEU:HB3	20:R1:146:LEU:CD1	2.02	0.90
11:I2:956:ILE:C	20:R3:166:LEU:HB2	1.97	0.90
17:O4:110:LEU:CD2	18:P4:321:ILE:HB	1.98	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:829:MET:HE2	22:T4:849:LEU:HD12	1.54	0.90
23:U2:75:TRP:CD1	31:c4:475:ALA:CB	2.54	0.90
23:U2:396:LEU:CD1	31:c4:552:ARG:N	2.29	0.90
26:X2:361:LEU:CD2	34:i:445:GLN:HG3	1.99	0.90
28:Z1:524:VAL:C	30:b1:208:ASN:CG	2.38	0.90
28:Z1:534:ASP:CG	30:b1:183:LEU:HB2	1.96	0.90
28:Z2:555:LYS:HE3	30:b2:216:LEU:HD23	1.53	0.90
28:Z3:400:LYS:O	30:b3:252:ALA:CB	2.20	0.90
28:Z3:555:LYS:HE3	30:b3:216:LEU:HD23	1.53	0.90
28:Z4:400:LYS:O	30:b4:252:ALA:CB	2.20	0.90
2:A2:858:ALA:O	6:D1:606:LYS:HE2	1.66	0.89
2:A2:867:GLU:C	6:D1:598:ILE:HG21	1.97	0.89
1:A3:1226:LEU:HD23	3:A6:549:ALA:N	1.85	0.89
1:A3:1233:GLN:HA	3:A6:578:ILE:HG22	1.51	0.89
1:A3:1241:ARG:CB	3:A6:586:CYS:SG	2.60	0.89
2:A4:712:THR:O	3:A6:490:PHE:CE1	2.26	0.89
2:A4:781:ARG:NE	6:D3:633:LYS:HE2	1.87	0.89
2:A4:875:LEU:CD1	6:D3:567:LEU:CD2	2.01	0.89
2:A4:892:SER:O	3:A6:155:TYR:CE2	2.25	0.89
3:A5:1026:PRO:HG3	11:I5:73:TYR:CG	2.07	0.89
3:A6:444:ARG:CG	6:D3:733:ALA:CB	2.32	0.89
11:I1:895:ARG:NE	17:O1:233:THR:CG2	2.24	0.89
11:I1:931:VAL:CG2	15:M1:604:ASN:N	2.31	0.89
11:I1:1016:ARG:C	16:N1:411:GLN:HG3	1.96	0.89
11:I1:1104:LEU:CB	16:N1:436:ALA:HB1	1.99	0.89
11:I1:1735:PHE:O	11:I2:1607:GLN:OE1	1.89	0.89
11:I2:1109:LEU:HD13	17:O3:290:TYR:CG	2.08	0.89
11:I5:1279:THR:HG23	26:X2:520:GLU:C	1.93	0.89
22:T1:829:MET:HE2	22:T1:849:LEU:HD12	1.54	0.89
23:U2:391:HIS:CG	31:c4:477:GLU:CB	2.54	0.89
23:U2:391:HIS:ND1	31:c4:477:GLU:HA	1.85	0.89
23:U2:432:TYR:O	31:c4:461:PHE:HD1	1.54	0.89
26:X2:307:LYS:HE2	34:i:402:PRO:C	1.56	0.89
28:Z1:561:GLN:HG3	30:b1:236:THR:CA	2.02	0.89
28:Z3:554:PHE:CD1	30:b3:232:PRO:CB	2.51	0.89
28:Z4:535:ILE:CG1	30:b4:182:PRO:CG	2.48	0.89
28:Z4:541:PRO:CD	30:b4:180:GLY:HA3	2.01	0.89
29:a4:252[B]:MET:HG2	29:a4:253:PRO:HD2	1.54	0.89
2:A2:874:VAL:CG1	6:D1:611:LYS:CB	2.49	0.89
1:A3:1237:LEU:CB	3:A6:597:GLU:HG3	2.01	0.89
2:A4:616:ALA:HB1	3:A6:109:ASP:CB	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:692:VAL:HG12	3:A6:467:LEU:HD23	1.48	0.89
2:A4:780:GLU:HB3	3:A6:564:ASN:ND2	1.29	0.89
6:D7:530:ARG:NH1	11:I3:182:VAL:N	2.19	0.89
11:I1:880:MET:CE	17:O1:247:TRP:HE3	1.76	0.89
11:I1:913:ALA:N	15:M1:584:GLN:CG	2.31	0.89
11:I2:833:PHE:CE2	17:O3:241:SER:C	2.50	0.89
11:I2:925:LEU:CA	15:M3:597:LYS:HG3	1.50	0.89
11:I2:978:LYS:HZ2	20:R3:155:GLU:HB3	1.36	0.89
11:I2:1040:HIS:CB	15:M3:619:ILE:HG21	1.98	0.89
23:U2:405:GLU:CB	31:c4:544:VAL:HG22	1.99	0.89
26:X2:290:GLU:HB2	34:i:492:TRP:CG	2.07	0.89
26:X2:361:LEU:HD13	34:i:445:GLN:HG3	1.54	0.89
28:Z1:401:THR:HB	30:b1:253:SER:CA	2.02	0.89
28:Z1:402:GLY:HA2	30:b1:273:LYS:CB	2.02	0.89
28:Z1:554:PHE:CZ	30:b1:234:LEU:HA	2.07	0.89
28:Z2:535:ILE:CG1	30:b2:182:PRO:CG	2.48	0.89
1:A1:1201:ARG:CD	2:A2:734:LEU:CB	2.50	0.89
1:A1:1222:ALA:CB	2:A2:615:LEU:HD13	2.02	0.89
2:A2:780:GLU:HB2	6:D1:677:GLN:CA	2.02	0.89
2:A2:987:LYS:CD	6:D1:555:ARG:NE	2.35	0.89
2:A2:1132:PRO:CD	3:A5:160:ILE:CG1	2.49	0.89
2:A2:1138:GLU:HG3	3:A5:562:LEU:HD11	1.52	0.89
1:A3:1189:LEU:H	3:A6:641:ALA:C	1.75	0.89
1:A3:1201:ARG:HB2	2:A4:728:LYS:O	1.72	0.89
1:A3:1271:ILE:HD11	3:A6:551:GLN:C	1.94	0.89
2:A4:680:LEU:O	3:A6:405:PHE:CE2	2.24	0.89
2:A4:776:MET:HA	3:A6:519:LEU:CD1	2.00	0.89
2:A4:897:ASN:CA	3:A6:165:PHE:HB3	2.00	0.89
3:A5:186:ILE:HD12	5:C2:744:PHE:HB2	1.53	0.89
3:A5:186:ILE:HG21	5:C2:742:ASP:OD1	1.72	0.89
3:A5:1392:ARG:HG3	28:Z2:866:GLU:O	1.73	0.89
8:F1:1137:GLN:N	17:O2:248:SER:OG	2.05	0.89
9:G1:262:SER:H	17:O2:256:TYR:HE1	1.19	0.89
11:I1:921:GLU:CB	15:M1:596:ILE:CD1	2.47	0.89
11:I1:957:SER:HB2	20:R1:168:LEU:CB	2.03	0.89
11:I1:1056:PRO:HB3	17:O1:278:GLU:CG	2.00	0.89
11:I2:914:ASN:O	15:M3:585:LEU:O	1.91	0.89
11:I2:942:HIS:CA	17:O3:259:ASP:OD2	2.20	0.89
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:O	2.25	0.89
23:U2:436:LEU:HD12	31:c4:540:HIS:HB3	1.53	0.89
26:X2:361:LEU:HD12	34:i:445:GLN:HE21	0.97	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:541:PRO:CD	30:b1:180:GLY:HA3	2.01	0.89
1:A1:832:ASN:OD1	6:D3:298:ASN:HA	1.11	0.89
1:A3:1204:TRP:CH2	3:A6:95:TYR:CD2	2.33	0.89
2:A4:577:ASP:CA	3:A6:453:SER:CB	2.41	0.89
2:A4:681:THR:HB	3:A6:431:PHE:CD1	2.07	0.89
2:A4:692:VAL:N	3:A6:316:ARG:HH22	1.69	0.89
2:A4:713:ILE:CD1	3:A6:462:LEU:HD12	2.02	0.89
2:A4:951:GLU:HB2	4:B6:347:LEU:HG	1.53	0.89
3:A5:160:ILE:HD11	5:C2:743:LEU:CD1	1.88	0.89
11:I1:934:LEU:O	15:M1:606:LEU:CB	2.21	0.89
11:I1:1048:GLU:CG	17:O1:284:LYS:O	2.20	0.89
11:I1:1052:LEU:C	17:O1:286:ILE:HB	1.96	0.89
11:I2:951:LYS:CD	16:N3:400:LEU:O	2.20	0.89
11:I2:976:ARG:NH1	20:R3:146:LEU:C	2.24	0.89
11:I2:997:SER:HB2	17:O3:270:THR:HG22	1.54	0.89
11:I2:1609:GLY:HA3	12:J1:295:TYR:CE1	2.08	0.89
17:O4:107:THR:HA	18:P4:318:PRO:CG	2.02	0.89
21:S1:660:LEU:N	21:S2:1102:VAL:HG21	1.88	0.89
21:S1:1016:LYS:HE2	21:S1:1039:GLU:HG3	1.53	0.89
23:U1:24:ILE:HA	31:c2:601:ARG:NH1	1.86	0.89
23:U1:38:ILE:CD1	31:c2:474:ASN:N	2.34	0.89
23:U2:391:HIS:CD2	31:c4:477:GLU:O	2.11	0.89
28:Z1:531:LYS:HD3	30:b1:183:LEU:N	1.87	0.89
28:Z2:402:GLY:HA2	30:b2:273:LYS:CB	2.02	0.89
28:Z3:535:ILE:CG1	30:b3:182:PRO:HB3	1.97	0.89
1:A1:870:HIS:N	6:D3:280:GLN:HB2	1.86	0.89
1:A1:1204:TRP:CH2	2:A2:676:LEU:CD1	2.54	0.89
1:A1:1229:VAL:CG2	2:A2:725:GLU:HG2	1.97	0.89
1:A1:1332:ARG:O	6:D1:637:LYS:HD2	1.70	0.89
2:A2:1143:LEU:CG	3:A5:130:ILE:O	2.13	0.89
2:A4:750:ASN:O	3:A6:93:ASP:HB3	1.72	0.89
2:A4:868:GLN:CD	6:D3:570:VAL:CG1	2.44	0.89
2:A4:908:LEU:CG	6:D3:601:PHE:O	2.19	0.89
2:A4:975:GLU:CA	6:D3:496:LEU:HA	2.02	0.89
2:A4:978:ASP:CB	6:D3:476:VAL:HG23	1.91	0.89
3:A5:221:SER:N	5:C2:738:ASP:CB	2.36	0.89
3:A5:1355:VAL:O	28:Z2:878:HIS:CA	2.19	0.89
11:I1:950:LEU:HB2	16:N1:407:ALA:H	1.27	0.89
11:I1:1055:GLU:HG2	17:O1:280:GLU:HB2	1.40	0.89
11:I1:1104:LEU:HD21	16:N1:433:GLU:CG	1.94	0.89
11:I2:884:LEU:HB2	16:N3:400:LEU:HD12	0.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:980:ILE:CD1	20:R3:147:LEU:HA	2.02	0.89
11:I2:989:GLY:CA	15:M3:614:ASP:CB	2.50	0.89
11:I2:1034:ASP:C	16:N3:441:PHE:CE2	2.49	0.89
11:I2:1110:SER:OG	16:N3:438:LEU:HG	0.71	0.89
17:O3:102:LYS:CD	18:P3:322:LYS:HZ2	1.85	0.89
21:S1:686:ALA:HB2	21:S2:1152:VAL:HA	1.53	0.89
21:S2:138:VAL:HG11	21:S2:170:THR:HG22	1.53	0.89
26:X2:284:ALA:O	34:i:493:PRO:HD3	1.73	0.89
26:X2:298:ASP:H	34:i:369:VAL:HG22	0.76	0.89
26:X2:299:SER:HB2	34:i:369:VAL:C	1.89	0.89
28:Z1:400:LYS:O	30:b1:252:ALA:CB	2.20	0.89
28:Z1:535:ILE:CG1	30:b1:182:PRO:CG	2.48	0.89
28:Z2:535:ILE:CG1	30:b2:182:PRO:HB3	1.97	0.89
28:Z3:554:PHE:CE2	30:b3:234:LEU:HA	2.06	0.89
1:A1:1201:ARG:HD2	2:A2:734:LEU:HB3	1.50	0.89
1:A1:1332:ARG:NH2	6:D1:681:ALA:HB1	1.86	0.89
2:A2:873:PRO:O	6:D1:563:GLU:OE1	1.89	0.89
2:A2:1151:THR:CG2	5:C2:734:VAL:HB	2.01	0.89
1:A3:1165:ASP:HB2	3:A6:598:VAL:CG2	2.02	0.89
1:A3:1311:ARG:HD3	3:A6:711:VAL:C	1.98	0.89
2:A4:680:LEU:HD21	3:A6:470:ARG:HH21	1.26	0.89
2:A4:908:LEU:O	6:D3:555:ARG:HB2	1.71	0.89
3:A5:993:ASN:CA	11:I5:57:GLU:HG2	2.02	0.89
11:I1:837:MET:HE2	17:O1:242:ARG:CB	1.93	0.89
11:I1:917:TYR:CD1	15:M1:586:ASP:O	2.25	0.89
11:I1:1051:LYS:H	17:O1:287:LEU:HA	1.36	0.89
11:I1:1673:VAL:HG11	11:I2:1610:VAL:CG2	2.01	0.89
11:I2:956:ILE:HG21	15:M3:600:ASN:HA	1.55	0.89
11:I2:962:ILE:CG2	20:R3:166:LEU:CG	2.49	0.89
11:I2:978:LYS:HZ1	20:R3:155:GLU:H	1.19	0.89
11:I2:1048:GLU:CB	17:O3:284:LYS:O	2.21	0.89
11:I2:1059:PRO:CA	17:O3:273:ASP:O	2.21	0.89
11:I2:1109:LEU:CD2	17:O3:290:TYR:CD2	2.56	0.89
23:U2:415:THR:HB	31:c4:541:ARG:HH11	1.13	0.89
26:X2:279:ALA:HB1	34:i:15:GLN:H	1.19	0.89
28:Z3:561:GLN:HG3	30:b3:236:THR:CA	2.02	0.89
29:a3:252[B]:MET:HG2	29:a3:253:PRO:HD2	1.54	0.89
2:A2:879:LEU:H	6:D1:567:LEU:CD1	1.86	0.89
2:A2:907:SER:O	6:D1:601:PHE:HA	1.05	0.89
2:A2:1118:GLN:O	3:A5:132:ASP:OD2	1.89	0.89
1:A3:1260:ALA:HB2	3:A6:719:ARG:HH21	0.75	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:91:LEU:HD23	3:A6:430:GLN:HE21	1.34	0.89
2:A4:574:ARG:HH21	3:A6:455:LEU:HA	1.35	0.89
2:A4:706:PRO:CD	3:A6:482:LYS:HG2	2.01	0.89
2:A4:726:ALA:HA	3:A6:575:LEU:CB	2.01	0.89
2:A4:759:ALA:HB1	3:A6:388:GLU:HB2	1.51	0.89
2:A4:870:HIS:CE1	6:D3:566:PHE:HD1	1.91	0.89
2:A4:872:ALA:HB3	6:D3:565:MET:HE3	1.48	0.89
11:I1:841:PHE:CG	17:O1:243:LEU:CD1	2.55	0.89
11:I1:879:VAL:C	17:O1:247:TRP:N	2.15	0.89
11:I1:922:ASP:N	15:M1:592:LEU:CB	2.34	0.89
11:I1:940:LEU:HB2	17:O1:259:ASP:C	1.97	0.89
11:I1:990:GLU:HG3	15:M1:614:ASP:HB2	1.51	0.89
11:I1:1038:ILE:C	20:R1:169:GLY:HA3	1.97	0.89
11:I1:1045:PHE:HZ	16:N1:431:VAL:O	1.46	0.89
11:I2:880:MET:HA	17:O3:247:TRP:CA	1.94	0.89
11:I2:1043:LEU:HD11	16:N3:433:GLU:CB	2.01	0.89
17:O3:155:VAL:CB	18:P3:321:ILE:HG23	2.00	0.89
24:V1:280:GLU:HG3	31:c1:28:LYS:HZ3	1.35	0.89
26:X2:204:PHE:HZ	34:i:444:GLU:CG	1.76	0.89
28:Z2:400:LYS:O	30:b2:252:ALA:CB	2.20	0.89
28:Z4:561:GLN:HB2	30:b4:236:THR:H	1.09	0.89
2:A2:872:ALA:CB	6:D1:565:MET:CE	2.51	0.89
2:A2:1148:ARG:HH22	3:A5:169:TYR:HA	1.37	0.89
1:A3:1084:ARG:HA	6:D3:794:THR:HA	1.55	0.89
1:A3:1188:ASN:HB3	3:A6:645:PHE:CB	2.01	0.89
2:A4:86:ASN:CB	3:A6:393:HIS:C	2.41	0.89
2:A4:683:LEU:C	3:A6:403:ARG:NE	2.30	0.89
2:A4:793:SER:CB	3:A6:146:LYS:CE	2.49	0.89
2:A4:826:ASN:CG	3:A6:565:THR:HA	1.98	0.89
2:A4:972:GLY:HA2	6:D3:204:ASN:OD1	1.04	0.89
2:A4:986:THR:HG21	6:D3:504:LYS:HG2	0.89	0.89
3:A5:234:LEU:N	5:C2:738:ASP:N	2.21	0.89
11:I1:837:MET:SD	17:O1:242:ARG:C	2.55	0.89
11:I1:846:ILE:HD13	15:M1:594:LYS:HB2	0.91	0.89
11:I1:900:ARG:HG3	17:O1:232:LYS:HZ2	1.35	0.89
11:I1:920:PHE:HE1	17:O1:247:TRP:HE1	1.00	0.89
11:I1:922:ASP:N	15:M1:592:LEU:HB3	1.88	0.89
11:I1:949:CYS:C	16:N1:403:VAL:CG1	2.43	0.89
11:I1:951:LYS:O	16:N1:400:LEU:C	2.15	0.89
11:I1:1104:LEU:HB3	16:N1:436:ALA:HB3	0.89	0.89
11:I2:840:LEU:HD22	17:O3:247:TRP:CB	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:896:PRO:CD	17:O3:233:THR:O	2.20	0.89
11:I2:1046:HIS:HB2	17:O3:280:GLU:C	1.98	0.89
11:I2:1113:LEU:CD2	17:O3:282:LYS:NZ	2.36	0.89
22:T2:739:GLU:OE1	31:c4:332:LYS:CB	2.14	0.89
23:U2:34:ASP:OD1	31:c4:561:THR:HB	1.73	0.89
26:X2:196:ASP:N	34:i:364:TYR:HH	1.63	0.89
26:X2:367:SER:O	34:i:424:LEU:CD2	2.20	0.89
28:Z2:554:PHE:CZ	30:b2:234:LEU:HA	2.07	0.89
28:Z4:394:ASP:OD2	30:b4:241:PRO:C	2.15	0.89
28:Z4:534:ASP:CG	30:b4:183:LEU:HB2	1.97	0.89
2:A2:980:ARG:NH2	6:D1:503:LEU:HB3	1.86	0.89
1:A3:1200:ARG:HH12	3:A6:608:VAL:HB	1.33	0.89
2:A4:79:ALA:O	3:A6:384:ILE:C	2.16	0.89
2:A4:84:VAL:CG1	3:A6:392:LEU:HB2	1.99	0.89
2:A4:682:ARG:HG2	3:A6:432:VAL:H	1.38	0.89
2:A4:693:VAL:H	3:A6:316:ARG:NH1	1.58	0.89
2:A4:720:LEU:CD2	3:A6:494:PRO:HA	1.79	0.89
3:A5:177:ILE:CD1	5:C2:736:ASN:O	2.20	0.89
3:A6:487:ASP:OD1	6:D3:675:ARG:O	1.89	0.89
8:F1:1262:HIS:CD2	17:O2:259:ASP:HB2	2.08	0.89
9:G1:255:LEU:O	15:M2:602:MET:CB	2.20	0.89
11:I1:1041:GLN:CB	15:M1:620:VAL:CG2	2.03	0.89
11:I2:895:ARG:CD	17:O3:234:LEU:CB	2.26	0.89
11:I2:976:ARG:HB3	20:R3:149:ARG:H	0.76	0.89
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG21	1.54	0.89
17:O3:151:LEU:HD23	18:P3:325:ILE:HG12	1.14	0.89
23:U1:20:LYS:HG2	31:c2:468:THR:C	1.98	0.89
23:U2:396:LEU:HD11	31:c4:548:VAL:C	1.94	0.89
24:V1:339:LEU:HA	31:c1:627:ASP:CB	2.02	0.89
28:Z2:523:ASP:HB3	30:b2:238:ASN:HA	1.54	0.89
28:Z2:537:THR:HG22	28:Z2:743:ASN:HA	1.54	0.89
28:Z2:557:CYS:HB2	30:b2:210:ARG:HH11	1.38	0.89
28:Z4:401:THR:HB	30:b4:253:SER:CA	2.02	0.89
1:A1:868:GLN:C	6:D3:280:GLN:HB3	1.98	0.89
2:A2:1122:LEU:HD12	3:A5:135:PHE:HD2	1.28	0.89
1:A3:1091:VAL:HB	6:D3:803:THR:O	1.73	0.89
1:A3:1251:VAL:CG1	3:A6:634:ASP:OD2	2.20	0.89
2:A4:897:ASN:C	3:A6:165:PHE:HD1	1.80	0.89
2:A4:983:LEU:HB2	6:D3:528:PHE:HZ	1.11	0.89
3:A5:189:VAL:O	5:C2:748:ASN:ND2	2.06	0.89
3:A5:1011:TYR:OH	11:I5:54:LYS:HG2	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1098:ARG:CZ	11:I5:29:GLN:CB	2.45	0.89
11:I1:879:VAL:HG12	17:O1:244:GLU:O	1.68	0.89
11:I1:896:PRO:HD3	17:O1:233:THR:HA	1.55	0.89
11:I1:921:GLU:HB2	16:N1:392:THR:HB	1.55	0.89
11:I2:890:TYR:N	17:O3:242:ARG:CG	2.31	0.89
11:I2:1020:ALA:HB2	16:N3:409:ALA:N	1.88	0.89
11:I2:1040:HIS:HE2	16:N3:437:VAL:CG1	1.83	0.89
11:I3:777:SER:CB	29:a2:40[B]:GLU:HG3	2.02	0.89
21:S3:678:GLU:CB	21:S4:1141:GLU:HA	2.02	0.89
22:T1:736:LEU:C	31:c5:18:SER:O	2.16	0.89
23:U2:24:ILE:CG2	31:c4:485:GLU:HG2	2.03	0.89
23:U2:407:VAL:C	31:c4:542:LYS:HG2	1.97	0.89
26:X2:313:LEU:CA	34:i:471:ILE:CG2	2.44	0.89
26:X2:333:GLU:OE1	34:i:475:ILE:HB	1.73	0.89
26:X2:361:LEU:CD2	34:i:441:LEU:HD21	2.03	0.89
28:Z2:561:GLN:HG3	30:b2:236:THR:CA	2.02	0.89
28:Z3:531:LYS:HD3	30:b3:183:LEU:N	1.88	0.89
28:Z3:534:ASP:CG	30:b3:183:LEU:HB2	1.97	0.89
28:Z3:560:ASN:HD22	30:b3:211:ILE:HG21	1.38	0.89
1:A3:1189:LEU:HD13	3:A6:579:PHE:CE1	1.97	0.88
1:A3:1226:LEU:HD21	3:A6:546:ASN:O	1.71	0.88
2:A4:900:THR:O	3:A6:137:HIS:CE1	2.25	0.88
11:I1:834:SER:H	17:O1:237:PRO:HB3	1.38	0.88
11:I1:984:GLU:CG	15:M1:618:GLN:H	1.86	0.88
11:I1:1677:LYS:HE2	11:I2:1543:LEU:CD1	2.03	0.88
11:I2:890:TYR:HD1	17:O3:238:ALA:C	1.70	0.88
11:I2:900:ARG:HB2	17:O3:232:LYS:CD	1.89	0.88
22:T1:736:LEU:CB	31:c5:19:THR:CG2	0.89	0.88
22:T2:829:MET:HE2	22:T2:849:LEU:HD12	1.54	0.88
22:T3:829:MET:HE2	22:T3:849:LEU:HD12	1.54	0.88
23:U1:21:GLU:HA	31:c2:471:LEU:CG	1.98	0.88
23:U1:25:GLU:HB2	31:c2:565:GLN:NE2	1.86	0.88
23:U1:405:GLU:OE2	31:c2:545:PRO:HG3	1.72	0.88
23:U2:432:TYR:CD1	31:c4:464:LEU:HB2	2.06	0.88
23:U2:432:TYR:C	31:c4:461:PHE:CD1	2.51	0.88
26:X2:333:GLU:CG	34:i:475:ILE:C	2.44	0.88
28:Z4:402:GLY:HA2	30:b4:273:LYS:CB	2.02	0.88
2:A2:1160:GLN:HG3	3:A5:165:PHE:HB3	1.52	0.88
1:A3:1229:VAL:CG1	3:A6:574:ARG:HA	2.03	0.88
1:A3:1233:GLN:CG	3:A6:578:ILE:HD12	2.02	0.88
2:A4:670:SER:N	3:A6:542:LEU:CG	2.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:868:GLN:CB	6:D3:570:VAL:HG21	2.04	0.88
2:A4:876:ARG:HG2	6:D3:563:GLU:C	1.97	0.88
2:A4:901:ALA:HB2	3:A6:176:LEU:HB2	1.55	0.88
3:A5:157:TRP:HB2	5:C2:741:THR:C	1.76	0.88
8:F1:1261:TYR:HD2	17:O2:259:ASP:CG	1.80	0.88
11:I1:1051:LYS:N	17:O1:287:LEU:CA	2.22	0.88
11:I2:853:ILE:HG12	17:O3:254:ARG:HD3	0.90	0.88
21:S4:1016:LYS:HE2	21:S4:1039:GLU:HG3	1.53	0.88
23:U2:408:ASP:O	31:c4:541:ARG:C	2.17	0.88
23:U2:436:LEU:CG	31:c4:540:HIS:HB3	2.02	0.88
28:Z2:528:ILE:HG12	30:b2:210:ARG:HH12	0.72	0.88
28:Z3:410:ASN:C	30:b3:251:ILE:HD12	1.90	0.88
28:Z4:528:ILE:O	30:b4:184:SER:HB3	0.85	0.88
2:A2:864:ARG:C	6:D1:608:ILE:HG12	1.98	0.88
2:A2:1163:TYR:OH	3:A5:136:GLU:HB3	1.73	0.88
1:A3:1090:SER:OG	6:D3:804:SER:HB2	1.72	0.88
1:A3:1257:VAL:HG22	3:A6:719:ARG:HH12	1.38	0.88
2:A4:75:LEU:HG	3:A6:321:ASP:OD1	1.73	0.88
2:A4:500:LYS:HE2	3:A6:104:PRO:O	1.73	0.88
2:A4:684:VAL:CG2	3:A6:405:PHE:CE2	2.51	0.88
2:A4:761:GLN:CB	3:A6:535:PHE:CE1	2.56	0.88
2:A4:886:PHE:O	3:A6:175:GLU:HB3	1.72	0.88
3:A6:446:LEU:CD1	6:D3:721:PRO:CB	2.45	0.88
3:A6:1399:ARG:HH21	28:Z4:968:ARG:CA	1.85	0.88
9:G1:256:GLN:H	17:O2:257:ALA:HB2	1.35	0.88
11:I1:885:GLU:O	16:N1:397:GLU:OE2	1.89	0.88
11:I1:924:ILE:CB	15:M1:592:LEU:O	2.17	0.88
11:I1:1110:SER:HB3	16:N1:434:LEU:O	1.71	0.88
11:I2:1018:LYS:H	16:N3:413:VAL:N	1.70	0.88
11:I2:1036:PRO:HB2	15:M3:619:ILE:O	1.73	0.88
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CE	1.86	0.88
11:I4:1276:GLN:OE1	26:X3:516:ASN:O	1.92	0.88
11:I4:1276:GLN:HB3	26:X3:516:ASN:C	1.96	0.88
11:I4:1282:PHE:CE2	29:a3:24[B]:GLY:CA	2.54	0.88
17:O3:155:VAL:CB	18:P3:321:ILE:CG2	2.50	0.88
21:S1:138:VAL:HG11	21:S1:170:THR:HG22	1.54	0.88
21:S1:176:MET:CE	21:S1:212:LEU:HD11	2.02	0.88
22:T1:736:LEU:CB	31:c5:19:THR:HG22	1.54	0.88
26:X2:192:LEU:CD1	34:i:443:THR:N	2.35	0.88
28:Z2:401:THR:HB	30:b2:253:SER:CA	2.02	0.88
2:A2:980:ARG:CZ	6:D1:503:LEU:HB2	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1151:THR:O	3:A5:175:GLU:CB	2.21	0.88
1:A3:1241:ARG:NH1	3:A6:593:ALA:HB1	1.79	0.88
2:A4:615:LEU:HB3	3:A6:509:LYS:C	1.98	0.88
2:A4:670:SER:H	3:A6:542:LEU:CD1	1.86	0.88
2:A4:682:ARG:CZ	3:A6:105:GLY:CA	2.51	0.88
2:A4:761:GLN:NE2	3:A6:535:PHE:HZ	1.72	0.88
2:A4:761:GLN:HG3	3:A6:545:GLY:CA	2.04	0.88
2:A4:778:PHE:C	3:A6:487:ASP:CG	2.25	0.88
2:A4:780:GLU:CD	3:A6:565:THR:HG23	1.97	0.88
2:A4:867:GLU:CD	6:D3:593:ARG:NH2	2.31	0.88
2:A4:893:LEU:HD11	3:A6:175:GLU:HG3	1.01	0.88
2:A4:946:LYS:HB2	4:B6:350:GLU:HB2	1.54	0.88
3:A5:1365:VAL:HG22	28:Z2:838:GLN:C	1.97	0.88
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CB	2.02	0.88
3:A6:1385:GLU:OE1	28:Z4:907:LEU:N	2.05	0.88
8:F1:1262:HIS:CE1	17:O2:255:GLY:O	2.24	0.88
11:I1:884:LEU:CD1	16:N1:400:LEU:HD11	1.98	0.88
11:I1:1103:LEU:HD13	20:R1:175:GLN:HG3	0.89	0.88
11:I2:890:TYR:CD1	17:O3:241:SER:N	2.31	0.88
11:I5:536:GLU:N	25:W2:8:HIS:N	2.21	0.88
23:U2:19:LEU:HD12	31:c4:479:ILE:O	1.71	0.88
23:U2:38:ILE:HD11	31:c4:531:TRP:CE2	2.06	0.88
26:X2:296:PRO:CD	34:i:416:VAL:CA	2.28	0.88
26:X2:305:GLU:N	34:i:325:VAL:CG2	2.29	0.88
28:Z1:537:THR:HG22	28:Z1:743:ASN:HA	1.54	0.88
28:Z1:555:LYS:CG	30:b1:233:TRP:HE3	1.87	0.88
28:Z3:401:THR:HB	30:b3:253:SER:CA	2.02	0.88
28:Z3:528:ILE:HG12	30:b3:210:ARG:HH12	0.73	0.88
28:Z3:530:LYS:CB	30:b3:204:GLU:OE1	2.22	0.88
2:A2:874:VAL:HG11	6:D1:611:LYS:HB3	1.55	0.88
1:A3:1392:ARG:H	3:A6:225:THR:CB	1.86	0.88
2:A4:80:LYS:CD	3:A6:387:THR:CG2	2.09	0.88
2:A4:868:GLN:O	6:D3:598:ILE:CB	2.21	0.88
3:A5:160:ILE:CD1	5:C2:743:LEU:CG	2.50	0.88
3:A5:1029:ILE:HA	11:I5:69:GLY:C	1.98	0.88
3:A5:1363:ASP:OD2	28:Z2:872:TYR:HA	1.39	0.88
3:A6:446:LEU:HD11	6:D3:721:PRO:HB2	1.51	0.88
3:A6:1416:ARG:HG3	28:Z4:998:LYS:C	1.86	0.88
11:I1:874:LEU:HD21	17:O1:252:VAL:CG1	1.98	0.88
11:I1:921:GLU:CD	16:N1:392:THR:O	2.17	0.88
11:I1:976:ARG:NH2	15:M1:622:VAL:CG2	2.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:928:LEU:CD1	20:R3:151:LYS:CE	2.51	0.88
11:I2:997:SER:HG	16:N3:427:VAL:HG23	1.32	0.88
11:I2:1029:LEU:CA	20:R3:173:LEU:HB3	2.02	0.88
11:I2:1030:ARG:O	20:R3:173:LEU:O	1.91	0.88
11:I3:1277:LEU:CD1	26:X1:511:TYR:HE2	1.84	0.88
17:O3:162:LYS:CB	18:P3:315:GLU:OE1	2.22	0.88
22:T1:736:LEU:CD1	31:c5:28:LYS:HE3	1.99	0.88
23:U1:138:ASN:O	31:c1:500:LYS:O	1.90	0.88
23:U1:399:ILE:HG13	31:c2:556:GLN:HE22	0.73	0.88
28:Z2:410:ASN:HB2	30:b2:251:ILE:HG13	1.56	0.88
28:Z3:402:GLY:HA3	30:b3:254:SER:HG	1.11	0.88
28:Z4:555:LYS:CG	30:b4:233:TRP:HE3	1.86	0.88
1:A3:1084:ARG:CA	6:D3:794:THR:HA	2.03	0.88
1:A3:1325:MET:SD	3:A6:125:VAL:C	2.56	0.88
2:A4:642:ARG:HE	3:A6:501:VAL:HG21	0.76	0.88
2:A4:672:ARG:HG2	3:A6:96:PRO:HG2	0.93	0.88
2:A4:735:ALA:HB2	3:A6:682:ARG:NE	1.88	0.88
2:A4:985:ALA:CA	6:D3:500:LYS:N	2.31	0.88
3:A5:1356:SER:C	28:Z2:878:HIS:C	2.07	0.88
3:A6:132:ASP:HB3	6:D3:606:LYS:H	1.36	0.88
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD2	1.38	0.88
11:I1:882:LYS:HB3	17:O1:245:GLU:HB3	0.89	0.88
11:I1:920:PHE:HE1	17:O1:247:TRP:CD1	1.88	0.88
11:I1:1668:HIS:CB	11:I2:1668:HIS:HB2	2.03	0.88
11:I2:955:LYS:NZ	17:O3:249:ARG:NH2	2.20	0.88
11:I2:966:TRP:CA	20:R3:153:GLN:HB3	2.04	0.88
11:I2:1046:HIS:O	17:O3:284:LYS:HG3	1.73	0.88
11:I2:1049:LEU:CG	17:O3:291:ASP:CG	2.47	0.88
11:I2:1109:LEU:HB2	17:O3:290:TYR:CZ	2.06	0.88
21:S1:668:ILE:HA	21:S2:1146:ALA:HB1	0.88	0.88
23:U1:402:GLY:HA3	31:c2:547:ASN:O	1.74	0.88
23:U2:398:ILE:HD11	31:c4:535:VAL:CG1	2.01	0.88
23:U2:413:ILE:H	31:c4:541:ARG:N	1.72	0.88
26:X2:360:PHE:CB	34:i:423:LYS:CG	2.52	0.88
26:X2:366:PRO:HB2	34:i:366:PHE:CE2	2.08	0.88
28:Z1:528:ILE:HG12	30:b1:210:ARG:HH12	0.73	0.88
28:Z1:555:LYS:HE3	30:b1:216:LEU:HD23	1.52	0.88
28:Z3:402:GLY:HA2	30:b3:273:LYS:CB	2.02	0.88
28:Z4:557:CYS:HB3	30:b4:210:ARG:HH11	1.01	0.88
2:A2:876:ARG:HD2	6:D1:558:LYS:CA	2.03	0.88
2:A2:1054:SER:O	6:D2:762:ARG:HD3	1.71	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1226:LEU:HB3	3:A6:551:GLN:N	1.88	0.88
3:A5:172:PRO:CG	5:C2:730:HIS:CG	2.57	0.88
3:A5:1004:HIS:NE2	11:I5:58:ALA:O	2.06	0.88
3:A5:1369:ILE:HG23	28:Z2:831:LEU:N	1.84	0.88
11:I1:797:LEU:CD1	17:O1:245:GLU:N	2.36	0.88
11:I2:894:VAL:HB	17:O3:239:GLN:CA	2.03	0.88
11:I2:952:LEU:C	16:N3:403:VAL:HG21	1.98	0.88
11:I2:958:THR:CB	16:N3:399:HIS:CD2	2.55	0.88
11:I2:1029:LEU:HD11	16:N3:433:GLU:CD	1.89	0.88
22:T2:837:LYS:CA	31:c4:333:LEU:HD23	2.03	0.88
23:U2:26:GLN:N	31:c4:489:LEU:N	2.19	0.88
26:X2:291:LEU:HD13	34:i:404:ARG:CD	2.02	0.88
28:Z1:534:ASP:HB2	30:b1:183:LEU:H	0.71	0.88
28:Z3:537:THR:HG22	28:Z3:743:ASN:HA	1.54	0.88
28:Z4:561:GLN:HG3	30:b4:236:THR:CA	2.02	0.88
1:A1:832:ASN:OD1	6:D3:298:ASN:CB	2.21	0.88
1:A1:1052:THR:HG22	6:D1:812:VAL:CG1	2.03	0.88
2:A2:1132:PRO:CD	3:A5:160:ILE:HG13	2.04	0.88
1:A3:1124:ARG:N	3:A6:599:ARG:NE	2.22	0.88
1:A3:1194:HIS:CE1	3:A6:552:PHE:HE2	1.81	0.88
1:A3:1233:GLN:CA	3:A6:578:ILE:HG22	2.03	0.88
2:A4:81:ALA:HB2	3:A6:388:GLU:CB	1.95	0.88
2:A4:579:PHE:CZ	3:A6:507:ALA:HB1	2.08	0.88
2:A4:711:VAL:HA	3:A6:490:PHE:CA	2.03	0.88
2:A4:917:LEU:HD11	3:A6:175:GLU:HB2	1.56	0.88
2:A4:918:CYS:SG	4:B6:342:ARG:CD	2.61	0.88
2:A4:977:VAL:CA	6:D3:492:VAL:CG1	2.43	0.88
3:A5:160:ILE:HD13	5:C2:743:LEU:HD11	1.53	0.88
3:A5:233:THR:CA	5:C2:738:ASP:H	1.87	0.88
3:A5:994:VAL:N	11:I5:57:GLU:CG	2.28	0.88
3:A6:520:GLU:HG3	6:D3:681:ALA:HB2	0.95	0.88
3:A6:1410:ALA:H	26:X4:686:ASP:H	0.91	0.88
8:F1:1267:ARG:CG	17:O2:265:ASN:CG	2.30	0.88
11:I1:797:LEU:CD2	17:O1:241:SER:OG	2.22	0.88
11:I1:841:PHE:O	15:M1:588:MET:HA	1.74	0.88
11:I1:884:LEU:CB	17:O1:246:LEU:HD21	2.02	0.88
11:I1:983:LEU:H	15:M1:621:ARG:CZ	1.82	0.88
11:I2:841:PHE:C	15:M3:591:ASP:CB	2.47	0.88
11:I2:948:ALA:H	17:O3:256:TYR:HD2	0.92	0.88
11:I2:951:LYS:HE2	16:N3:404:GLU:CB	2.04	0.88
11:I2:1021:ILE:HG12	16:N3:410:MET:HE2	0.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1276:GLN:CD	26:X1:535:ALA:HA	1.98	0.88
17:O3:147:ALA:HB1	18:P3:328:PRO:HG2	1.54	0.88
23:U1:202:LEU:HD13	31:c1:571:GLN:NE2	1.74	0.88
23:U2:404:VAL:N	31:c4:551:LEU:HD21	1.88	0.88
24:V1:378:SER:CB	31:c1:30:PHE:CZ	2.56	0.88
26:X2:287:ASP:CB	34:i:480[B]:MET:SD	2.58	0.88
26:X2:317:PHE:CD2	34:i:477:GLY:C	2.52	0.88
26:X2:336:LEU:HD11	34:i:477:GLY:HA2	1.55	0.88
28:Z1:530:LYS:CB	30:b1:204:GLU:OE1	2.22	0.88
1:A1:1398:LYS:C	2:A2:884:ARG:NH2	2.08	0.88
2:A2:1148:ARG:NH2	3:A5:169:TYR:O	2.06	0.88
1:A3:1186:TRP:C	3:A6:618:ALA:HA	1.96	0.88
1:A3:1270:SER:HB3	3:A6:709:LYS:HZ1	1.34	0.88
1:A3:1321:MET:HE1	3:A6:571:ARG:NH2	1.86	0.88
2:A4:718:GLU:HG2	3:A6:492:SER:CA	2.03	0.88
2:A4:724:LEU:HD22	3:A6:95:TYR:OH	1.31	0.88
3:A5:177:ILE:HD13	5:C2:736:ASN:C	1.98	0.88
3:A5:1391:ARG:CB	28:Z2:871:HIS:N	2.29	0.88
3:A6:446:LEU:HD12	6:D3:722:LEU:N	1.89	0.88
8:F1:1264:ARG:HB3	17:O2:263:GLN:CA	2.01	0.88
9:G1:263:MET:CB	17:O2:260:LEU:HD22	2.03	0.88
11:I1:928:LEU:HG	20:R1:155:GLU:HG3	1.56	0.88
11:I1:955:LYS:HZ1	16:N1:397:GLU:HA	1.31	0.88
11:I1:1029:LEU:N	20:R1:171:ALA:O	1.99	0.88
11:I1:1738:TYR:N	11:I2:1607:GLN:OE1	2.06	0.88
11:I2:948:ALA:HA	17:O3:253:LEU:CD2	2.04	0.88
11:I2:962:ILE:HG22	20:R3:166:LEU:HG	1.51	0.88
11:I2:1048:GLU:HB2	17:O3:284:LYS:HB3	1.54	0.88
23:U1:38:ILE:CB	31:c2:473:THR:CG2	2.52	0.88
23:U1:410:SER:HB3	31:c2:541:ARG:HH12	1.39	0.88
23:U2:48:GLN:HB2	31:c4:472:GLU:HG3	1.52	0.88
26:X2:280:VAL:O	34:i:479:THR:OG1	1.92	0.88
28:Z1:560:ASN:HD22	30:b1:211:ILE:HG21	1.38	0.88
28:Z3:554:PHE:CZ	30:b3:234:LEU:HA	2.07	0.88
1:A1:870:HIS:CB	6:D3:279:HIS:CG	2.43	0.88
2:A2:986:THR:OG1	6:D1:497:PHE:HE1	1.21	0.88
1:A3:1017:THR:CB	6:D3:819:ASN:HB3	2.03	0.88
1:A3:1186:TRP:CZ3	3:A6:637:THR:CG2	2.54	0.88
1:A3:1237:LEU:HB2	3:A6:582:ALA:CB	2.02	0.88
1:A3:1271:ILE:CB	3:A6:550:VAL:CG1	2.34	0.88
2:A4:227:SER:HB2	6:D3:712:ASP:N	1.75	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:779:ASP:OD1	3:A6:486:GLN:CA	2.22	0.88
2:A4:879:LEU:H	6:D3:567:LEU:HD12	0.85	0.88
2:A4:909:LYS:O	6:D3:555:ARG:HG3	1.02	0.88
3:A5:160:ILE:HD12	5:C2:743:LEU:CG	2.03	0.88
3:A5:1093:THR:HG23	11:I5:37:GLU:OE2	0.97	0.88
3:A6:1399:ARG:NH2	28:Z4:968:ARG:CB	2.36	0.88
9:G1:266:ASP:HB3	16:N2:412:ASN:C	1.95	0.88
11:I1:873:ILE:HG21	17:O1:254:ARG:HG2	1.53	0.88
11:I1:951:LYS:O	16:N1:400:LEU:O	1.92	0.88
11:I1:991:THR:HG23	15:M1:609:GLY:N	1.87	0.88
11:I1:1546:TRP:CB	12:J2:300:ILE:HD13	1.99	0.88
11:I2:914:ASN:O	15:M3:585:LEU:C	2.05	0.88
11:I2:946:THR:N	17:O3:260:LEU:N	2.22	0.88
21:S3:176:MET:CE	21:S3:212:LEU:HD11	2.02	0.88
23:U2:25:GLU:HB3	31:c4:486:VAL:HG12	1.54	0.88
24:V1:343:LYS:HZ1	31:c1:631:LYS:HE2	1.39	0.88
26:X2:196:ASP:C	34:i:364:TYR:HE2	1.82	0.88
26:X2:318:GLY:HA2	34:i:475:ILE:HG23	1.53	0.88
28:Z1:523:ASP:OD2	30:b1:239:THR:CB	2.22	0.88
28:Z1:557:CYS:HB2	30:b1:210:ARG:HH11	1.38	0.88
28:Z4:528:ILE:HG12	30:b4:210:ARG:HH12	0.73	0.88
2:A2:904:GLN:HB3	6:D1:603:SER:N	1.87	0.87
2:A2:969:ASP:HA	6:D1:196:ILE:H	1.33	0.87
1:A3:1202:GLU:HB3	3:A6:91:LEU:HB3	1.55	0.87
1:A3:1332:ARG:CG	6:D3:636:ASP:CB	2.44	0.87
2:A4:635:ARG:CZ	3:A6:603:ASN:HB2	2.03	0.87
2:A4:757:LEU:HB2	3:A6:543:GLY:O	1.74	0.87
2:A4:760:LEU:HD21	3:A6:98:LEU:N	1.89	0.87
2:A4:801:THR:OG1	3:A6:381:LEU:CG	2.22	0.87
2:A4:870:HIS:ND1	6:D3:566:PHE:HD1	1.68	0.87
3:A5:1363:ASP:HB2	28:Z2:875:LEU:CB	2.02	0.87
3:A5:1395:LYS:HA	28:Z2:873:LEU:CA	2.04	0.87
3:A5:1399:ARG:HG2	28:Z2:912:ASP:CB	2.04	0.87
3:A6:842:ARG:NE	8:F2:776:HIS:CE1	2.42	0.87
5:C3:732:LYS:HZ2	11:I2:1225:LYS:CD	1.84	0.87
11:I1:1029:LEU:HD11	16:N1:433:GLU:OE1	1.73	0.87
11:I2:899:LEU:HD12	17:O3:233:THR:N	1.88	0.87
21:S3:1016:LYS:HE2	21:S3:1039:GLU:HG3	1.53	0.87
22:T1:721:ALA:HB2	31:c5:34:LYS:HZ2	1.39	0.87
22:T1:812:ASP:CG	31:c5:88:GLU:CB	2.42	0.87
23:U1:402:GLY:N	31:c2:552:ARG:H	1.70	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:332:ILE:CG2	34:i:477:GLY:CA	2.52	0.87
28:Z2:394:ASP:OD2	30:b2:241:PRO:C	2.15	0.87
2:A2:976:LEU:O	6:D1:496:LEU:N	2.04	0.87
1:A3:1200:ARG:HG2	3:A6:609:GLU:HG3	1.56	0.87
1:A3:1202:GLU:HG2	3:A6:91:LEU:CA	2.03	0.87
1:A3:1271:ILE:CB	3:A6:550:VAL:HA	2.03	0.87
1:A3:1332:ARG:NE	6:D3:636:ASP:HB3	1.88	0.87
2:A4:574:ARG:HH11	3:A6:454:GLN:N	1.70	0.87
3:A5:233:THR:OG1	5:C2:738:ASP:OD2	1.91	0.87
3:A5:1356:SER:O	28:Z2:879:PHE:N	1.88	0.87
9:G2:263:MET:CE	17:O4:263:GLN:OE1	2.21	0.87
11:I1:1021:ILE:CG2	16:N1:406:HIS:CE1	2.54	0.87
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG2	1.53	0.87
11:I1:1667:GLN:O	11:I2:1665:LEU:CD2	2.21	0.87
11:I2:962:ILE:CG2	20:R3:166:LEU:CB	1.85	0.87
11:I2:1109:LEU:N	17:O3:290:TYR:OH	2.05	0.87
11:I3:1277:LEU:HB2	26:X1:522:MET:N	1.88	0.87
17:O3:101:ASN:OD1	18:P3:322:LYS:CG	2.22	0.87
22:T1:824:VAL:HG11	31:c5:54:ASN:O	1.73	0.87
26:X2:300:SER:OG	34:i:367:GLU:CB	2.21	0.87
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:HE1	1.86	0.87
28:Z1:410:ASN:HB2	30:b1:251:ILE:HG13	1.56	0.87
28:Z3:411:LEU:H	30:b3:251:ILE:HD11	1.38	0.87
28:Z4:411:LEU:H	30:b4:251:ILE:HD11	1.38	0.87
1:A1:1102:GLN:OE1	11:I1:1413:GLN:O	1.91	0.87
2:A2:909:LYS:O	6:D1:555:ARG:CG	2.22	0.87
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG21	1.42	0.87
1:A3:1120:ASP:CB	3:A6:596:ARG:N	2.18	0.87
2:A4:235:TYR:CE1	4:B4:347:LEU:HD12	2.09	0.87
2:A4:614:ALA:HB2	3:A6:507:ALA:HB1	1.54	0.87
2:A4:648:TYR:CG	3:A6:503:GLN:CG	2.56	0.87
2:A4:720:LEU:CB	3:A6:512:GLU:HG2	2.03	0.87
2:A4:781:ARG:HH11	6:D3:673:ARG:HH12	1.19	0.87
2:A4:820:LYS:HB3	3:A6:148:GLY:H	1.37	0.87
2:A4:824:ASN:O	3:A6:134:VAL:O	1.90	0.87
2:A4:867:GLU:CG	6:D3:605:THR:CB	2.53	0.87
2:A4:871:ASN:CG	6:D3:573:LEU:H	1.82	0.87
2:A4:954:ILE:H	4:B6:345:LYS:HA	1.34	0.87
3:A6:133:LYS:HA	6:D3:604:ASP:CA	1.84	0.87
3:A6:1394:VAL:C	28:Z4:913:ILE:HA	1.72	0.87
3:A6:1398:LYS:HD3	28:Z4:921:THR:H	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1091:SER:C	17:O4:244:GLU:HB3	2.00	0.87
11:I1:846:ILE:HD12	15:M1:594:LYS:CG	2.04	0.87
11:I1:874:LEU:HD23	17:O1:252:VAL:HG13	1.56	0.87
11:I1:1055:GLU:CG	17:O1:280:GLU:CB	2.44	0.87
11:I2:978:LYS:NZ	20:R3:152:LYS:O	2.07	0.87
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD2	2.04	0.87
11:I2:1186:PRO:CG	17:O4:221:ASP:OD1	2.14	0.87
11:I5:1236:TYR:HD1	29:a2:24[B]:GLY:O	1.56	0.87
18:P2:319:VAL:HG23	18:P3:278:ASN:ND2	1.87	0.87
23:U2:410:SER:C	31:c4:541:ARG:HB3	1.99	0.87
28:Z1:523:ASP:O	30:b1:208:ASN:OD1	1.81	0.87
28:Z4:530:LYS:CB	30:b4:204:GLU:OE1	2.22	0.87
2:A2:235:TYR:CE1	4:B2:347:LEU:HD12	2.09	0.87
2:A2:970:PHE:O	6:D1:202:GLN:HG2	1.75	0.87
2:A2:974:PRO:HD3	6:D1:205:LEU:HG	1.57	0.87
1:A3:1228:TYR:CD1	3:A6:551:GLN:HB3	2.09	0.87
1:A3:1233:GLN:C	3:A6:601:PHE:CZ	2.53	0.87
1:A3:1233:GLN:N	3:A6:578:ILE:HB	1.88	0.87
2:A4:92:ASP:CG	3:A6:105:GLY:H	1.82	0.87
2:A4:200:VAL:CG2	4:B4:351:GLU:O	2.22	0.87
2:A4:551:GLN:NE2	3:A6:106:ALA:O	2.07	0.87
2:A4:642:ARG:CG	3:A6:501:VAL:HG11	2.00	0.87
2:A4:705:ILE:HG23	3:A6:480:VAL:O	1.72	0.87
2:A4:804:GLN:OE1	3:A6:317:GLY:CA	2.21	0.87
2:A4:868:GLN:OE1	6:D3:570:VAL:CG1	2.23	0.87
2:A4:871:ASN:HB2	6:D3:568:ARG:O	1.67	0.87
2:A4:879:LEU:CB	6:D3:564:ASN:HB2	2.04	0.87
2:A4:892:SER:O	3:A6:232:LEU:HB3	1.74	0.87
2:A4:897:ASN:HA	3:A6:165:PHE:CG	2.08	0.87
2:A4:942:ASN:CB	4:B6:355:PRO:O	2.22	0.87
2:A4:1098:ARG:HH21	6:D4:709:ARG:HH22	0.87	0.87
3:A5:172:PRO:HD3	5:C2:730:HIS:CE1	2.08	0.87
3:A5:1365:VAL:HG22	28:Z2:838:GLN:CA	2.02	0.87
3:A6:446:LEU:HD23	6:D3:730:ARG:CG	2.03	0.87
9:G2:256:GLN:NE2	17:O4:263:GLN:N	2.22	0.87
11:I1:990:GLU:HB3	17:O1:272:SER:HA	1.57	0.87
11:I1:1066:LEU:CA	16:N1:430:ARG:CG	2.47	0.87
11:I1:1672:VAL:C	11:I2:1611:PHE:C	2.41	0.87
11:I2:899:LEU:CD1	17:O3:234:LEU:N	2.36	0.87
11:I2:917:TYR:O	15:M3:588:MET:CB	2.21	0.87
11:I2:918:SER:OG	16:N3:385:MET:O	1.92	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1030:ARG:N	20:R3:173:LEU:N	2.14	0.87
15:M3:483:LYS:HZ1	16:N4:327:LYS:HE3	1.35	0.87
23:U2:420:LEU:HD13	31:c4:463:HIS:O	1.73	0.87
26:X2:361:LEU:CG	34:i:423:LYS:CE	2.47	0.87
26:X2:365:ILE:HG13	34:i:421:ILE:CG2	1.99	0.87
28:Z1:555:LYS:CG	30:b1:213:ASP:H	1.87	0.87
28:Z2:531:LYS:HD3	30:b2:183:LEU:N	1.88	0.87
28:Z2:531:LYS:CD	30:b2:182:PRO:C	2.48	0.87
2:A2:873:PRO:CD	6:D1:568:ARG:NE	2.21	0.87
1:A3:1225:PRO:N	3:A6:548:LEU:CD1	2.35	0.87
1:A3:1279:ILE:HA	3:A6:625:LEU:C	1.98	0.87
2:A4:91:LEU:HD13	3:A6:104:PRO:HG3	1.55	0.87
2:A4:703:SER:N	3:A6:399:ASP:CB	2.37	0.87
2:A4:706:PRO:HB2	3:A6:461:ALA:HA	1.56	0.87
2:A4:753:GLU:O	3:A6:544:PHE:N	2.08	0.87
2:A4:780:GLU:HG3	3:A6:564:ASN:H	1.39	0.87
2:A4:825:ARG:HB2	3:A6:138:LEU:HD13	0.88	0.87
2:A4:977:VAL:C	6:D3:492:VAL:HG12	1.98	0.87
11:I1:984:GLU:HG3	15:M1:618:GLN:N	1.89	0.87
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CE1	1.80	0.87
11:I2:881:ILE:O	17:O3:249:ARG:CD	2.19	0.87
11:I2:1037:THR:CB	20:R3:173:LEU:HD22	2.04	0.87
11:I4:813:ILE:HA	26:X3:496:THR:HG22	1.56	0.87
11:I4:1279:THR:CG2	26:X3:520:GLU:HB3	2.03	0.87
21:S3:684:THR:HA	21:S4:1147:ASN:HA	1.57	0.87
23:U1:24:ILE:HA	31:c2:601:ARG:HH11	1.39	0.87
23:U1:394:ILE:HD12	31:c2:477:GLU:CB	1.77	0.87
23:U2:45:ALA:CB	31:c4:470:ARG:HB3	2.05	0.87
26:X2:361:LEU:CD1	34:i:441:LEU:HD11	2.03	0.87
28:Z2:411:LEU:H	30:b2:251:ILE:HD11	1.38	0.87
28:Z4:531:LYS:HD3	30:b4:183:LEU:N	1.88	0.87
1:A1:1396:GLY:CA	2:A2:888:GLN:HB3	1.70	0.87
1:A1:1399:ARG:NH2	2:A2:888:GLN:HB2	1.89	0.87
2:A2:1137:ALA:HB3	3:A5:564:ASN:HB2	0.87	0.87
2:A2:1163:TYR:CD2	3:A5:133:LYS:HG2	2.10	0.87
1:A3:1186:TRP:C	3:A6:641:ALA:HB3	2.00	0.87
2:A4:91:LEU:HD13	3:A6:104:PRO:CG	2.04	0.87
2:A4:542:LEU:O	3:A6:361:ASP:C	2.17	0.87
2:A4:682:ARG:CB	3:A6:432:VAL:C	2.34	0.87
2:A4:691:LYS:NZ	3:A6:330:LEU:O	2.07	0.87
2:A4:705:ILE:CB	3:A6:482:LYS:N	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:774:VAL:HG12	3:A6:479:VAL:CB	2.05	0.87
2:A4:896:ALA:CB	3:A6:164:LEU:CG	2.52	0.87
2:A4:1151:THR:CG2	5:C4:734:VAL:HB	2.01	0.87
5:C3:732:LYS:HZ1	11:I2:1225:LYS:CD	1.79	0.87
11:I1:883:ALA:HB3	17:O1:246:LEU:HB3	0.89	0.87
11:I1:884:LEU:CB	17:O1:246:LEU:CD2	2.51	0.87
11:I1:984:GLU:HG2	15:M1:614:ASP:C	1.99	0.87
11:I1:1000:ILE:HG22	16:N1:413:VAL:HG21	1.54	0.87
11:I3:1276:GLN:NE2	26:X1:538:ILE:HG12	1.83	0.87
21:S1:670:ILE:C	21:S2:1145:LYS:C	2.35	0.87
21:S1:677:TYR:N	21:S2:1124:ASP:OD1	2.07	0.87
21:S3:686:ALA:CB	21:S4:1153:GLN:CA	2.52	0.87
23:U2:74:PHE:HE2	31:c4:552:ARG:CZ	1.87	0.87
23:U2:78:VAL:HG12	31:c4:553:LEU:HD13	1.11	0.87
23:U2:434:THR:CG2	31:c4:532:TRP:CH2	2.56	0.87
24:V1:339:LEU:HB2	31:c1:627:ASP:H	1.33	0.87
26:X2:192:LEU:CB	34:i:443:THR:HG23	2.03	0.87
26:X2:296:PRO:HB3	34:i:369:VAL:HG21	1.57	0.87
29:a2:252[B]:MET:HG2	29:a2:253:PRO:HD2	1.54	0.87
1:A1:1204:TRP:NE1	2:A2:645:PHE:CZ	2.30	0.87
1:A3:1332:ARG:HD2	3:A6:127:HIS:CE1	2.10	0.87
1:A3:1396:GLY:HA2	2:A4:888:GLN:HB3	1.56	0.87
2:A4:825:ARG:NH2	3:A6:564:ASN:HB2	1.88	0.87
3:A5:1029:ILE:HG23	11:I5:70:GLU:H	1.09	0.87
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CA	2.05	0.87
3:A6:446:LEU:CG	6:D3:721:PRO:HA	2.04	0.87
6:D5:237:PRO:HD3	31:c3:552:ARG:HH11	1.38	0.87
8:F1:1205:TRP:NE1	17:O2:254:ARG:HD2	1.89	0.87
9:G1:252:LEU:CD2	17:O2:254:ARG:HD3	2.05	0.87
9:G1:260:THR:C	17:O2:256:TYR:CE1	2.52	0.87
11:I1:840:LEU:CB	17:O1:243:LEU:CB	2.53	0.87
11:I1:894:VAL:CG2	17:O1:238:ALA:H	1.88	0.87
11:I1:987:GLY:HA2	15:M1:614:ASP:N	1.90	0.87
11:I1:1029:LEU:CD1	20:R1:171:ALA:CA	2.43	0.87
11:I1:1056:PRO:N	17:O1:278:GLU:HG2	1.88	0.87
11:I2:949:CYS:SG	15:M3:602:MET:HE2	2.13	0.87
17:O4:110:LEU:HD23	18:P4:321:ILE:CB	2.03	0.87
17:O4:111:TYR:HD1	18:P4:325:ILE:HD11	1.33	0.87
22:T1:755:GLU:H	31:c5:58:ARG:HH21	0.89	0.87
23:U2:38:ILE:HD12	31:c4:531:TRP:NE1	1.89	0.87
23:U2:78:VAL:CG1	31:c4:553:LEU:CB	2.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:401:THR:O	30:b1:254:SER:OG	1.93	0.87
28:Z1:531:LYS:CD	30:b1:182:PRO:C	2.48	0.87
28:Z2:410:ASN:HD21	30:b2:252:ALA:HB2	0.91	0.87
28:Z2:555:LYS:CG	30:b2:233:TRP:HE3	1.86	0.87
28:Z3:531:LYS:CD	30:b3:182:PRO:C	2.48	0.87
1:A1:1221:ILE:CG2	2:A2:642:ARG:O	2.21	0.87
1:A3:1049:PHE:HA	6:D3:816:VAL:HG21	1.54	0.87
2:A4:500:LYS:CE	3:A6:104:PRO:O	2.16	0.87
2:A4:706:PRO:HD2	3:A6:482:LYS:CG	2.03	0.87
2:A4:892:SER:O	3:A6:177:ILE:CD1	2.15	0.87
2:A4:951:GLU:N	4:B6:347:LEU:HG	1.89	0.87
3:A6:1416:ARG:HA	28:Z4:1002:MET:H	1.40	0.87
11:I1:911:PRO:C	15:M1:584:GLN:NE2	2.33	0.87
11:I1:913:ALA:N	15:M1:584:GLN:HG3	1.78	0.87
11:I1:942:HIS:N	17:O1:259:ASP:O	2.04	0.87
11:I2:890:TYR:CB	17:O3:238:ALA:O	2.23	0.87
11:I2:1031:ALA:N	20:R3:173:LEU:O	2.02	0.87
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD21	2.05	0.87
11:I2:1054:ILE:N	17:O3:281:ALA:N	2.16	0.87
11:I2:1054:ILE:C	17:O3:281:ALA:N	2.32	0.87
11:I4:1274:HIS:CB	26:X3:524:SER:OG	2.22	0.87
17:O3:148:ARG:CZ	18:P3:325:ILE:HG21	2.05	0.87
21:S2:683:LEU:N	21:S2:684:THR:HA	1.90	0.87
22:T1:741:ASP:CG	31:c5:24:GLN:CG	2.48	0.87
23:U1:172:LYS:CE	31:c1:506:HIS:HA	2.04	0.87
23:U1:440:ASP:HA	31:c2:463:HIS:CD2	2.09	0.87
26:X2:324:ILE:HD11	34:i:476:LEU:CD1	2.04	0.87
28:Z2:541:PRO:HD2	30:b2:180:GLY:CA	2.05	0.87
28:Z2:560:ASN:HD22	30:b2:211:ILE:HG21	1.38	0.87
28:Z3:555:LYS:CG	30:b3:233:TRP:HE3	1.86	0.87
2:A2:200:VAL:CG2	4:B2:351:GLU:O	2.22	0.87
2:A2:867:GLU:HB3	6:D1:609:ILE:CD1	2.05	0.87
2:A2:983:LEU:HB2	6:D1:528:PHE:HE1	1.37	0.87
1:A3:1250:PRO:C	3:A6:635:ARG:H	1.81	0.87
1:A3:1280:GLN:OE1	3:A6:125:VAL:CB	2.08	0.87
2:A4:93:ASP:C	3:A6:361:ASP:HB3	2.00	0.87
2:A4:859:GLN:HB3	3:A6:134:VAL:N	1.89	0.87
2:A4:968:SER:OG	6:D3:201:LEU:CA	2.20	0.87
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD12	1.55	0.87
3:A6:486:GLN:N	6:D3:671:ALA:O	2.08	0.87
11:I1:833:PHE:HD2	17:O1:238:ALA:N	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:916:ALA:H	15:M1:586:ASP:H	1.22	0.87
11:I1:1017:VAL:H	16:N1:411:GLN:C	1.80	0.87
11:I1:1029:LEU:CG	20:R1:171:ALA:C	2.43	0.87
11:I1:1635:HIS:NE2	11:I2:1674:HIS:HA	1.90	0.87
11:I2:891:LEU:HA	17:O3:239:GLN:HB3	1.57	0.87
11:I2:936:LYS:N	15:M3:609:GLY:HA3	1.88	0.87
11:I2:950:LEU:CD2	16:N3:406:HIS:NE2	2.35	0.87
11:I2:1036:PRO:HG3	17:O3:287:LEU:HG	1.57	0.87
11:I2:1053:GLY:C	17:O3:279:ILE:C	2.43	0.87
11:I2:1100:ILE:HG22	16:N3:433:GLU:OE2	1.73	0.87
21:S3:601:LEU:N	21:S4:1156:ILE:HA	1.89	0.87
22:T1:816:LYS:CE	31:c5:85:ARG:CZ	2.52	0.87
23:U2:22:PHE:CB	31:c4:483:ASP:HB3	2.01	0.87
23:U2:356:PRO:HG3	31:c4:547:ASN:OD1	1.10	0.87
23:U2:430:PRO:HD2	31:c4:458:LYS:CE	2.03	0.87
26:X2:188:MET:O	34:i:440:GLU:CD	2.18	0.87
26:X2:287:ASP:OD2	34:i:492:TRP:O	1.93	0.87
28:Z3:523:ASP:OD2	30:b3:239:THR:CB	2.22	0.87
28:Z3:555:LYS:CG	30:b3:213:ASP:H	1.87	0.87
2:A2:227:SER:CA	6:D1:712:ASP:N	2.38	0.86
1:A3:1233:GLN:OE1	3:A6:605:TYR:HE2	1.53	0.86
1:A3:1237:LEU:HB2	3:A6:582:ALA:HB3	1.54	0.86
2:A4:549:ALA:HB2	3:A6:105:GLY:O	1.73	0.86
2:A4:854:VAL:HG13	3:A6:173:ASN:H	1.33	0.86
2:A4:944:SER:HB2	3:A6:200:VAL:CB	2.05	0.86
3:A5:1369:ILE:CD1	28:Z2:832:PHE:N	2.37	0.86
11:I1:837:MET:HE3	17:O1:239:GLN:O	1.74	0.86
11:I1:981:VAL:HG13	20:R1:151:LYS:CG	2.05	0.86
11:I1:1021:ILE:CG1	16:N1:410:MET:HE3	2.04	0.86
11:I1:1055:GLU:HA	17:O1:281:ALA:H	1.36	0.86
11:I2:884:LEU:CB	16:N3:400:LEU:CD1	2.43	0.86
11:I2:1052:LEU:H	17:O3:286:ILE:HB	1.39	0.86
17:O4:109:PRO:HB2	18:P4:318:PRO:CB	2.04	0.86
18:P1:276:SER:HB2	18:P4:322:LYS:CD	2.05	0.86
22:T3:885:ARG:HG3	22:T3:885:ARG:HH11	1.39	0.86
23:U1:438:GLU:HG2	31:c2:541:ARG:HE	1.38	0.86
24:V1:339:LEU:CA	31:c1:627:ASP:HB2	2.05	0.86
24:V1:378:SER:OG	31:c1:61:LYS:CE	2.20	0.86
24:V2:682:ALA:O	31:c2:54:ASN:HA	1.17	0.86
28:Z3:534:ASP:HB2	30:b3:183:LEU:H	0.71	0.86
2:A2:989:MSE:HE3	6:D1:240:ASP:HA	0.88	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1142:PHE:CZ	3:A5:567:VAL:CA	2.57	0.86
1:A3:1091:VAL:HG23	6:D3:805:GLY:C	1.99	0.86
1:A3:1117:ILE:CG2	3:A6:592:ASP:OD2	2.08	0.86
1:A3:1237:LEU:CB	3:A6:582:ALA:HB3	1.87	0.86
1:A3:1271:ILE:N	3:A6:553:ASP:HB3	1.90	0.86
1:A3:1385:GLU:OE2	3:A6:223:THR:HB	1.75	0.86
2:A4:767:ILE:N	3:A6:470:ARG:CA	2.38	0.86
2:A4:802:TYR:OH	3:A6:467:LEU:N	2.08	0.86
2:A4:878:LEU:HB2	6:D3:567:LEU:CG	2.03	0.86
2:A4:886:PHE:CA	3:A6:175:GLU:CB	2.51	0.86
11:I1:884:LEU:HD23	17:O1:246:LEU:HD13	1.57	0.86
11:I1:940:LEU:HD23	17:O1:262:ASP:CA	1.80	0.86
11:I1:1024:PHE:O	20:R1:172:ASP:OD2	1.92	0.86
11:I1:1052:LEU:CB	16:N1:438:LEU:HD13	1.99	0.86
11:I2:899:LEU:HD12	17:O3:234:LEU:N	1.88	0.86
11:I2:931:VAL:C	15:M3:601:ASP:O	2.18	0.86
21:S1:683:LEU:N	21:S1:684:THR:HA	1.90	0.86
22:T1:819:ASN:OD1	31:c5:57:GLU:OE1	1.94	0.86
26:X2:192:LEU:H	34:i:443:THR:CG2	1.81	0.86
28:Z1:411:LEU:HD21	30:b1:251:ILE:HG23	1.56	0.86
28:Z2:556:ASN:ND2	30:b2:166:LEU:HD23	1.90	0.86
28:Z3:557:CYS:HB3	30:b3:210:ARG:NH1	1.51	0.86
28:Z4:522:ASN:H	30:b4:241:PRO:HG3	1.16	0.86
1:A1:1398:LYS:O	2:A2:884:ARG:CZ	2.22	0.86
2:A2:875:LEU:CD2	6:D1:566:PHE:C	2.47	0.86
2:A2:876:ARG:N	6:D1:564:ASN:O	1.98	0.86
2:A2:909:LYS:N	6:D1:552:TYR:OH	2.08	0.86
1:A3:1202:GLU:CG	3:A6:91:LEU:H	1.88	0.86
2:A4:92:ASP:O	3:A6:365:MET:HG2	1.75	0.86
2:A4:778:PHE:CZ	3:A6:466:ALA:HB1	2.11	0.86
2:A4:789:LEU:HD22	3:A6:146:LYS:HD2	1.54	0.86
2:A4:898:LEU:HD23	4:B6:344:ALA:N	1.90	0.86
2:A4:908:LEU:C	6:D3:552:TYR:CZ	2.54	0.86
3:A5:1313:LYS:HB2	28:Z2:830:LEU:O	1.74	0.86
3:A5:1367:THR:HG22	28:Z2:844:CYS:O	1.76	0.86
11:I1:872:SER:O	17:O1:251:ILE:HG21	1.74	0.86
11:I1:952:LEU:CB	16:N1:400:LEU:CD2	2.52	0.86
11:I1:1032:THR:C	15:M1:627:LEU:CD2	2.47	0.86
11:I1:1060:PHE:CD2	17:O1:279:ILE:HD13	2.09	0.86
11:I1:1611:PHE:HA	11:I2:1673:VAL:H	1.31	0.86
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CE2	2.42	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:984:GLU:HB2	15:M3:618:GLN:HE21	1.08	0.86
17:O3:102:LYS:HB3	18:P3:322:LYS:HZ3	1.04	0.86
17:O3:102:LYS:CG	18:P3:322:LYS:CE	2.53	0.86
17:O4:107:THR:HG21	18:P4:321:ILE:CD1	2.04	0.86
24:V2:686:GLU:CB	31:c2:57:GLU:HB3	2.06	0.86
26:X2:280:VAL:HG22	34:i:14:TRP:HD1	1.38	0.86
26:X2:361:LEU:CG	34:i:441:LEU:HD11	2.04	0.86
28:Z2:411:LEU:HD21	30:b2:251:ILE:HG23	1.56	0.86
28:Z2:530:LYS:CB	30:b2:204:GLU:OE1	2.22	0.86
28:Z4:410:ASN:HD22	30:b4:252:ALA:N	1.73	0.86
28:Z4:531:LYS:CD	30:b4:182:PRO:C	2.48	0.86
28:Z4:541:PRO:HD2	30:b4:180:GLY:CA	2.05	0.86
28:Z4:554:PHE:CD1	30:b4:232:PRO:HB2	2.10	0.86
1:A3:1251:VAL:CA	3:A6:634:ASP:CB	2.49	0.86
2:A4:544:PHE:CD1	3:A6:363:ALA:CB	2.55	0.86
2:A4:572:ARG:O	3:A6:454:GLN:CG	2.22	0.86
2:A4:652:PRO:CA	3:A6:542:LEU:HD13	1.98	0.86
2:A4:715:GLU:HG2	3:A6:515:THR:N	1.91	0.86
2:A4:759:ALA:HB3	3:A6:388:GLU:HB2	1.58	0.86
2:A4:761:GLN:NE2	3:A6:535:PHE:CE1	2.43	0.86
2:A4:859:GLN:NE2	3:A6:176:LEU:CD2	2.36	0.86
2:A4:897:ASN:O	3:A6:176:LEU:CB	2.22	0.86
8:F1:1205:TRP:CE2	17:O2:254:ARG:HD2	2.09	0.86
9:G2:254:ASN:O	17:O4:262:ASP:OD2	1.93	0.86
11:I1:833:PHE:CD2	17:O1:237:PRO:C	2.53	0.86
11:I1:833:PHE:CD2	17:O1:241:SER:HB3	1.87	0.86
11:I1:833:PHE:O	17:O1:241:SER:HB2	1.75	0.86
11:I1:846:ILE:CD1	15:M1:594:LYS:CG	2.52	0.86
11:I1:986:ASN:O	15:M1:611:LYS:HA	1.75	0.86
11:I2:880:MET:O	17:O3:246:LEU:CD2	2.20	0.86
11:I2:1051:LYS:HB3	17:O3:284:LYS:O	1.75	0.86
17:O3:155:VAL:HG23	18:P3:321:ILE:CG1	2.05	0.86
22:T1:824:VAL:HG22	31:c5:55:VAL:HA	1.57	0.86
23:U2:17:ASP:HB3	31:c4:467:GLU:OE2	1.74	0.86
26:X2:363:TYR:CZ	34:i:419:THR:HG22	2.08	0.86
28:Z2:554:PHE:CD1	30:b2:232:PRO:HB2	2.10	0.86
28:Z2:555:LYS:CG	30:b2:213:ASP:H	1.87	0.86
28:Z3:524:VAL:H	30:b3:238:ASN:HB2	0.71	0.86
2:A2:1149:THR:H	3:A5:172:PRO:CD	1.86	0.86
1:A3:1225:PRO:HD3	3:A6:497:GLY:HA2	1.58	0.86
1:A3:1231:VAL:CA	3:A6:613:ALA:HB1	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1248:ILE:HG13	3:A6:587:VAL:CG2	2.01	0.86
1:A3:1391:ARG:C	3:A6:227:SER:OG	2.17	0.86
2:A4:547:GLU:O	3:A6:455:LEU:CD2	2.23	0.86
2:A4:610:THR:CG2	3:A6:506:SER:OG	2.24	0.86
2:A4:868:GLN:HG2	6:D3:608:ILE:HD13	0.88	0.86
2:A4:893:LEU:CD2	3:A6:176:LEU:CA	2.52	0.86
3:A5:189:VAL:CG2	5:C2:742:ASP:HB3	2.06	0.86
3:A5:1029:ILE:CA	11:I5:69:GLY:C	2.47	0.86
3:A5:1098:ARG:HD2	11:I5:29:GLN:CD	2.00	0.86
3:A5:1365:VAL:HG23	28:Z2:838:GLN:O	1.71	0.86
3:A6:1406:GLY:H	26:X4:744:MET:CB	1.85	0.86
8:F1:1264:ARG:NH1	17:O2:264:ILE:HA	1.90	0.86
8:F1:1392:LEU:HD21	17:O2:266:GLN:NE2	1.89	0.86
11:I1:880:MET:HG3	17:O1:247:TRP:C	1.99	0.86
11:I2:847:THR:HG23	15:M3:594:LYS:NZ	1.88	0.86
11:I2:957:SER:CB	20:R3:167:GLN:O	2.23	0.86
11:I2:963:LEU:HD23	20:R3:168:LEU:CD1	2.06	0.86
11:I2:1029:LEU:HD13	16:N3:433:GLU:CD	1.96	0.86
11:I4:1277:LEU:CD2	26:X3:517:ASP:HB2	2.04	0.86
23:U1:23:LYS:HB2	31:c2:478:SER:CB	2.05	0.86
23:U2:18:THR:HB	31:c4:478:SER:O	1.73	0.86
23:U3:278:GLN:HE21	25:W4:189:SER:CA	1.86	0.86
26:X2:300:SER:N	34:i:367:GLU:O	2.06	0.86
26:X2:309:LEU:HD22	34:i:396:HIS:CB	1.97	0.86
28:Z1:556:ASN:ND2	30:b1:166:LEU:HD23	1.90	0.86
28:Z4:555:LYS:CG	30:b4:213:ASP:H	1.87	0.86
1:A1:1204:TRP:CD1	2:A2:672:ARG:HD3	2.10	0.86
2:A2:908:LEU:HD23	6:D1:601:PHE:C	2.00	0.86
2:A4:677:ALA:C	3:A6:98:LEU:HG	2.01	0.86
2:A4:790:ASP:OD2	3:A6:187:THR:C	2.10	0.86
2:A4:825:ARG:HH22	3:A6:564:ASN:CG	1.82	0.86
2:A4:897:ASN:N	3:A6:178:GLY:HA2	1.91	0.86
2:A4:980:ARG:CA	6:D3:473:GLU:OE2	2.19	0.86
2:A4:982:THR:O	6:D3:497:PHE:HD1	1.57	0.86
3:A5:220:VAL:HG11	5:C2:739:MET:HB3	0.88	0.86
3:A6:132:ASP:CB	6:D3:607:PRO:CD	2.48	0.86
11:I1:945:LEU:CG	17:O1:258:GLU:H	1.87	0.86
11:I1:1031:ALA:N	20:R1:172:ASP:O	2.07	0.86
11:I1:1104:LEU:CD2	20:R1:174:ARG:CD	2.09	0.86
11:I2:833:PHE:CZ	17:O3:242:ARG:CA	2.57	0.86
11:I2:874:LEU:HD23	17:O3:252:VAL:O	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:976:ARG:NE	20:R3:143:PHE:O	2.08	0.86
11:I2:1039:ALA:O	20:R3:170:LEU:HD21	1.74	0.86
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD2	2.06	0.86
11:I3:1270:LYS:C	26:X1:529:TRP:H	1.84	0.86
21:S1:682:ASN:O	21:S2:1101:PHE:CE2	2.28	0.86
21:S3:683:LEU:N	21:S3:684:THR:HA	1.90	0.86
22:T1:741:ASP:OD2	31:c5:24:GLN:HB3	1.76	0.86
23:U2:23:LYS:CG	31:c4:532:TRP:CZ3	2.58	0.86
23:U2:431:ILE:HD13	31:c4:464:LEU:C	2.01	0.86
23:U2:437:ASN:C	31:c4:428:ARG:HH21	1.82	0.86
24:V1:287:ASN:CB	31:c1:11:TYR:CD2	2.58	0.86
26:X2:301:SER:CB	34:i:334:TYR:O	2.19	0.86
28:Z2:530:LYS:HB3	30:b2:204:GLU:CD	2.01	0.86
2:A2:1153:LEU:CG	3:A5:173:ASN:CA	2.51	0.86
1:A3:1248:ILE:CG1	3:A6:587:VAL:CG2	2.32	0.86
2:A4:550:VAL:HG23	3:A6:367:ASP:HB3	1.56	0.86
2:A4:875:LEU:HB2	6:D3:566:PHE:O	0.98	0.86
2:A4:983:LEU:HD13	6:D3:497:PHE:CE2	2.11	0.86
8:F1:1094:GLY:C	17:O2:237:PRO:HB3	1.99	0.86
8:F1:1267:ARG:NE	17:O2:265:ASN:OD1	2.09	0.86
11:I1:887:GLN:HB2	16:N1:393:ILE:HD13	0.92	0.86
11:I1:919:ALA:O	15:M1:592:LEU:CD2	2.23	0.86
11:I1:984:GLU:HG3	15:M1:618:GLN:H	1.40	0.86
11:I1:1037:THR:HG23	20:R1:169:GLY:C	2.00	0.86
11:I1:1739:GLU:CB	11:I2:1540:LYS:CE	2.46	0.86
11:I2:833:PHE:CZ	17:O3:242:ARG:HA	2.11	0.86
11:I2:948:ALA:HB3	17:O3:253:LEU:O	1.74	0.86
11:I2:980:ILE:HB	15:M3:618:GLN:CG	2.06	0.86
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG23	0.86	0.86
17:O4:109:PRO:HD2	18:P4:318:PRO:HG3	1.57	0.86
23:U1:38:ILE:CG2	31:c2:473:THR:CB	2.52	0.86
23:U1:38:ILE:CA	31:c2:473:THR:CG2	2.52	0.86
23:U2:37:ASN:HB2	31:c4:558:GLU:O	1.74	0.86
23:U2:394:ILE:CA	31:c4:535:VAL:HA	2.05	0.86
23:U2:400:ASN:HD22	31:c4:550:LYS:HE3	0.71	0.86
26:X2:291:LEU:O	34:i:415:SER:HB2	1.76	0.86
26:X2:363:TYR:CZ	34:i:419:THR:HG21	2.09	0.86
28:Z1:557:CYS:HB3	30:b1:210:ARG:NH1	1.51	0.86
28:Z2:534:ASP:HB2	30:b2:183:LEU:H	0.71	0.86
28:Z4:560:ASN:HD22	30:b4:211:ILE:HG21	1.38	0.86
1:A1:1223:GLU:HG2	2:A2:734:LEU:HD21	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:911:TYR:HE2	6:D1:555:ARG:CZ	1.88	0.86
1:A3:1169:LEU:N	3:A6:594:LEU:HB2	1.90	0.86
1:A3:1242:THR:HB	3:A6:584:GLY:O	1.76	0.86
1:A3:1271:ILE:CG2	3:A6:550:VAL:HA	2.06	0.86
1:A3:1274:ASP:C	3:A6:556:PRO:HD2	1.95	0.86
2:A4:80:LYS:NZ	3:A6:387:THR:CG2	2.39	0.86
2:A4:90:GLN:N	3:A6:406:LEU:HA	1.89	0.86
2:A4:689:LYS:CD	3:A6:336:ILE:HD11	1.77	0.86
2:A4:702:SER:CA	3:A6:399:ASP:HB3	2.04	0.86
2:A4:764:MET:CE	3:A6:473:PRO:O	2.24	0.86
2:A4:779:ASP:O	3:A6:523:ASN:N	2.09	0.86
2:A4:900:THR:HG21	3:A6:165:PHE:CD2	1.08	0.86
2:A4:1151:THR:HA	5:C4:733:LEU:HA	1.52	0.86
11:I1:841:PHE:CD1	17:O1:243:LEU:HD11	2.10	0.86
11:I1:881:ILE:CD1	17:O1:253:LEU:CD1	2.50	0.86
11:I1:949:CYS:SG	17:O1:253:LEU:O	2.34	0.86
11:I1:1049:LEU:HD12	15:M1:626:HIS:HD2	1.03	0.86
11:I2:965:ALA:HB2	20:R3:164:PRO:HA	1.57	0.86
11:I2:1035:GLN:CA	15:M3:626:HIS:CB	2.51	0.86
11:I5:1276:GLN:HB3	26:X2:518:ASP:O	1.76	0.86
11:I5:1281:GLU:OE2	26:X2:516:ASN:ND2	2.08	0.86
21:S3:1120:PRO:HD3	21:S3:1155:GLN:HE22	1.41	0.86
23:U2:400:ASN:ND2	31:c4:550:LYS:NZ	2.22	0.86
26:X2:197:VAL:HB	34:i:366:PHE:CD1	1.88	0.86
26:X2:309:LEU:C	34:i:406:HIS:NE2	2.34	0.86
26:X2:368:LEU:N	34:i:441:LEU:HB3	1.91	0.86
28:Z1:531:LYS:NZ	30:b1:166:LEU:CB	2.39	0.86
28:Z2:555:LYS:HB3	30:b2:212:PHE:CA	2.05	0.86
28:Z3:410:ASN:HB2	30:b3:251:ILE:HG13	1.55	0.86
28:Z4:557:CYS:HB2	30:b4:210:ARG:HH11	1.38	0.86
29:a1:252[B]:MET:HG2	29:a1:253:PRO:HD2	1.54	0.86
2:A2:876:ARG:CG	6:D1:558:LYS:HG2	2.06	0.86
2:A4:639:ASN:HA	3:A6:603:ASN:O	1.76	0.86
2:A4:642:ARG:HG2	3:A6:501:VAL:CG2	2.06	0.86
2:A4:734:LEU:CD1	3:A6:95:TYR:CG	2.59	0.86
2:A4:982:THR:O	6:D3:497:PHE:CD1	2.19	0.86
3:A5:160:ILE:N	5:C2:744:PHE:CA	2.39	0.86
3:A5:1026:PRO:HG2	11:I5:73:TYR:CB	2.05	0.86
3:A5:1313:LYS:HA	28:Z2:833:ASP:CB	2.06	0.86
3:A5:1388:ALA:O	28:Z2:867:LYS:HA	1.04	0.86
3:A6:442:ARG:HH22	6:D3:741:ILE:CA	1.80	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:446:LEU:CD2	6:D3:730:ARG:CG	2.53	0.86
6:D3:743:HIS:CD2	11:I2:1528:ARG:CD	2.58	0.86
11:I1:797:LEU:CG	17:O1:245:GLU:CG	2.54	0.86
11:I1:840:LEU:HB3	17:O1:243:LEU:HB3	1.58	0.86
11:I1:1020:ALA:CB	16:N1:405:ALA:C	2.30	0.86
11:I1:1024:PHE:CB	16:N1:406:HIS:CG	2.56	0.86
11:I2:952:LEU:HD11	15:M3:599:ILE:HG12	1.55	0.86
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB2	1.76	0.86
11:I2:1039:ALA:CB	20:R3:170:LEU:CA	2.54	0.86
17:O4:107:THR:HG22	18:P4:321:ILE:CD1	1.99	0.86
22:T1:736:LEU:N	31:c5:18:SER:CA	2.37	0.86
22:T1:826:GLY:HA3	31:c5:23:ARG:CZ	1.99	0.86
26:X2:304:ARG:H	34:i:335:HIS:CD2	1.94	0.86
28:Z1:411:LEU:H	30:b1:251:ILE:HD11	1.38	0.86
28:Z1:561:GLN:HB2	30:b1:236:THR:H	1.10	0.86
28:Z3:401:THR:O	30:b3:254:SER:OG	1.93	0.86
28:Z3:557:CYS:HB2	30:b3:210:ARG:HH11	1.38	0.86
2:A2:866:SER:N	6:D1:605:THR:HA	1.91	0.86
1:A3:1200:ARG:NH1	3:A6:608:VAL:CB	2.36	0.86
1:A3:1236:GLN:HG3	3:A6:578:ILE:HA	1.58	0.86
2:A4:533:ALA:HB1	3:A6:370:PRO:CG	2.05	0.86
2:A4:702:SER:CA	3:A6:399:ASP:CB	2.54	0.86
2:A4:726:ALA:CA	3:A6:575:LEU:HB2	2.06	0.86
2:A4:860:GLU:HG3	6:D3:606:LYS:CB	2.06	0.86
2:A4:880:ALA:CB	6:D3:558:LYS:CE	2.53	0.86
2:A4:967:GLU:O	6:D3:202:GLN:CG	2.06	0.86
3:A5:1029:ILE:HG22	11:I5:70:GLU:C	2.01	0.86
3:A5:1365:VAL:HG22	28:Z2:838:GLN:HA	1.56	0.86
3:A5:1406:GLY:H	28:Z2:918:PHE:HA	1.40	0.86
3:A6:443:ILE:HD12	6:D3:695:LEU:HD21	1.58	0.86
3:A6:1392:ARG:O	28:Z4:913:ILE:CB	2.23	0.86
11:I1:837:MET:CE	17:O1:239:GLN:O	2.23	0.86
11:I1:1033:PRO:C	16:N1:441:PHE:CE1	2.52	0.86
11:I2:841:PHE:HA	15:M3:591:ASP:HB3	1.57	0.86
11:I2:947:LEU:CD2	16:N3:408:MET:HA	2.06	0.86
11:I2:950:LEU:HG	15:M3:606:LEU:CD2	2.06	0.86
11:I2:957:SER:HB2	20:R3:168:LEU:CB	2.06	0.86
11:I2:999:SER:HB2	17:O3:264:ILE:CG2	2.05	0.86
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE2	2.24	0.86
11:I4:819:MET:HE3	27:Y3:178:PHE:CE1	2.08	0.86
15:M3:483:LYS:NZ	16:N4:327:LYS:CE	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:826:GLY:HA3	31:c5:23:ARG:HH22	1.30	0.86
22:T2:885:ARG:HG3	22:T2:885:ARG:HH11	1.39	0.86
23:U2:432:TYR:HE1	31:c4:464:LEU:HD12	1.33	0.86
28:Z4:531:LYS:NZ	30:b4:166:LEU:CB	2.39	0.86
28:Z4:539:GLU:CB	30:b4:165:THR:N	2.39	0.86
1:A3:832:ASN:CG	6:D1:302:PRO:HB3	2.00	0.85
1:A3:835:THR:CG2	6:D1:302:PRO:HG3	2.06	0.85
1:A3:1088:ASN:HA	6:D3:808:ASN:CG	2.00	0.85
1:A3:1164:TYR:HD1	3:A6:642:ARG:O	1.55	0.85
2:A4:171:HIS:CD2	6:D3:708:ASP:OD2	2.28	0.85
2:A4:710:LEU:HB2	3:A6:480:VAL:HG22	0.86	0.85
2:A4:715:GLU:HB2	3:A6:112:MET:SD	2.15	0.85
2:A4:756:ALA:O	3:A6:544:PHE:CD2	1.98	0.85
2:A4:826:ASN:ND2	6:D3:633:LYS:O	2.09	0.85
3:A6:443:ILE:N	6:D3:691:LEU:CD1	2.11	0.85
3:A6:1395:LYS:O	28:Z4:920:SER:CA	2.24	0.85
8:F1:1137:GLN:CB	17:O2:248:SER:CB	2.53	0.85
8:F1:1265:GLN:OE1	17:O2:258:GLU:C	2.19	0.85
9:G1:263:MET:SD	16:N2:407:ALA:O	2.34	0.85
11:I1:916:ALA:CB	15:M1:586:ASP:CA	2.24	0.85
11:I1:938:CYS:CA	15:M1:606:LEU:CD1	2.52	0.85
11:I1:984:GLU:OE2	15:M1:615:PRO:O	1.93	0.85
11:I1:1052:LEU:CA	17:O1:283:ALA:O	2.22	0.85
11:I1:1110:SER:OG	16:N1:434:LEU:O	1.94	0.85
11:I2:945:LEU:N	17:O3:259:ASP:HB3	1.91	0.85
11:I2:949:CYS:SG	17:O3:258:GLU:N	2.49	0.85
11:I2:1021:ILE:HA	16:N3:406:HIS:ND1	1.91	0.85
11:I4:1270:LYS:HB3	26:X3:524:SER:O	1.76	0.85
21:S1:671:ALA:HB3	21:S2:1146:ALA:CB	2.05	0.85
21:S4:1120:PRO:HD3	21:S4:1155:GLN:HE22	1.41	0.85
22:T2:836:ALA:C	31:c4:333:LEU:HD23	2.00	0.85
23:U1:172:LYS:CE	31:c1:506:HIS:CA	2.54	0.85
23:U3:277:LEU:H	25:W4:192:GLN:NE2	1.68	0.85
26:X2:283:ASP:CG	34:i:15:GLN:CG	2.43	0.85
26:X2:287:ASP:CG	34:i:480[B]:MET:CB	2.21	0.85
26:X2:321:ALA:CB	34:i:84:ARG:HD3	1.84	0.85
26:X2:366:PRO:O	34:i:366:PHE:CE2	2.29	0.85
28:Z3:411:LEU:HD21	30:b3:251:ILE:HG23	1.56	0.85
28:Z3:556:ASN:ND2	30:b3:166:LEU:HD23	1.90	0.85
28:Z4:410:ASN:HB2	30:b4:251:ILE:HG13	1.56	0.85
28:Z4:410:ASN:CB	30:b4:251:ILE:CG1	2.36	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:CG	3:A5:165:PHE:CB	2.53	0.85
1:A3:1271:ILE:HD11	3:A6:552:PHE:N	1.91	0.85
1:A3:1332:ARG:HE	6:D3:636:ASP:CB	1.89	0.85
2:A4:645:PHE:CZ	3:A6:96:PRO:HG2	2.11	0.85
2:A4:672:ARG:CG	3:A6:96:PRO:HG2	1.37	0.85
2:A4:689:LYS:HA	3:A6:381:LEU:HD21	1.58	0.85
2:A4:880:ALA:HA	6:D3:558:LYS:CE	2.05	0.85
2:A4:904:GLN:OE1	3:A6:137:HIS:CD2	2.29	0.85
2:A4:955:CYS:H	4:B6:345:LYS:CA	1.89	0.85
11:I1:919:ALA:CA	16:N1:389:PHE:CA	2.43	0.85
11:I1:937:TYR:HB3	17:O1:258:GLU:HA	0.87	0.85
11:I1:952:LEU:CG	16:N1:400:LEU:HD21	2.05	0.85
11:I1:965:ALA:H	20:R1:165:SER:HB3	1.41	0.85
11:I1:1041:GLN:HG2	15:M1:616:LEU:CB	1.96	0.85
11:I1:1041:GLN:HG2	15:M1:616:LEU:HG	1.56	0.85
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD21	2.04	0.85
11:I1:1104:LEU:CD2	16:N1:433:GLU:CG	2.52	0.85
11:I1:1108:PRO:HG3	16:N1:443:GLU:C	2.00	0.85
11:I2:989:GLY:N	15:M3:614:ASP:CG	2.33	0.85
11:I2:1103:LEU:HB3	20:R3:174:ARG:CB	1.88	0.85
11:I3:1273:GLU:CG	26:X1:535:ALA:CB	2.53	0.85
21:S1:680:PRO:HA	21:S2:1127:GLN:NE2	1.91	0.85
22:T4:885:ARG:HG3	22:T4:885:ARG:HH11	1.39	0.85
23:U2:394:ILE:O	31:c4:535:VAL:N	2.09	0.85
26:X2:365:ILE:HG21	34:i:424:LEU:CD1	1.78	0.85
28:Z2:401:THR:O	30:b2:254:SER:OG	1.93	0.85
28:Z3:541:PRO:HD2	30:b3:180:GLY:CA	2.05	0.85
2:A2:779:ASP:C	6:D1:679:ILE:H	1.84	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:HD13	1.56	0.85
2:A2:988:ARG:CA	6:D1:500:LYS:NZ	2.31	0.85
1:A3:1048:ARG:NE	6:D3:790:ARG:NH2	2.24	0.85
1:A3:1265:ASN:CG	3:A6:683:LEU:CD1	2.42	0.85
1:A3:1274:ASP:OD1	3:A6:558:GLU:OE2	1.92	0.85
2:A4:788:ARG:CB	3:A6:145:THR:OG1	2.25	0.85
9:G1:267:GLY:HA2	16:N2:414:ALA:O	1.77	0.85
11:I1:1018:LYS:CE	16:N1:413:VAL:O	2.25	0.85
11:I2:880:MET:SD	17:O3:250:LEU:HD21	2.16	0.85
11:I2:951:LYS:CE	16:N3:404:GLU:HB2	2.07	0.85
11:I2:958:THR:HB	16:N3:399:HIS:CD2	2.11	0.85
11:I2:1104:LEU:CD2	16:N3:437:VAL:HG23	2.02	0.85
22:T1:736:LEU:CD1	31:c5:19:THR:HG21	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:38:ILE:CD1	31:c4:531:TRP:CE2	2.59	0.85
23:U2:395:CYS:HB2	31:c4:552:ARG:O	1.74	0.85
28:Z2:523:ASP:OD2	30:b2:239:THR:CB	2.22	0.85
28:Z3:531:LYS:NZ	30:b3:166:LEU:CB	2.39	0.85
28:Z4:411:LEU:HD21	30:b4:251:ILE:HG23	1.56	0.85
28:Z4:537:THR:HG22	28:Z4:743:ASN:HA	1.54	0.85
2:A2:945:ARG:NH2	3:A5:588:SER:O	2.10	0.85
2:A2:1148:ARG:NH1	3:A5:169:TYR:HA	1.91	0.85
1:A3:1187:ASN:C	3:A6:723:PHE:CE1	2.54	0.85
1:A3:1204:TRP:HB3	2:A4:731:ILE:HG22	1.56	0.85
2:A4:671:SER:C	3:A6:100:SER:CB	2.36	0.85
2:A4:711:VAL:N	3:A6:490:PHE:HB2	1.89	0.85
2:A4:720:LEU:HD11	3:A6:510:TYR:CD1	2.11	0.85
2:A4:737:PRO:CG	3:A6:93:ASP:OD2	2.22	0.85
2:A4:765:GLU:O	3:A6:477:PHE:HE2	1.59	0.85
2:A4:826:ASN:ND2	6:D3:633:LYS:HB3	1.90	0.85
2:A4:880:ALA:HB2	6:D3:558:LYS:HE3	1.55	0.85
3:A6:1416:ARG:CG	28:Z4:998:LYS:C	2.43	0.85
6:D5:783:SER:OG	31:c4:305:SER:HB3	1.77	0.85
11:I1:877:ILE:CB	17:O1:253:LEU:N	2.40	0.85
11:I1:880:MET:HE2	17:O1:247:TRP:HZ3	1.34	0.85
11:I2:947:LEU:HD22	17:O3:256:TYR:HH	1.37	0.85
11:I2:948:ALA:CB	17:O3:256:TYR:CB	2.24	0.85
11:I3:1270:LYS:CA	26:X1:529:TRP:H	1.80	0.85
17:O3:158:GLU:HG3	18:P3:316:LEU:CB	2.05	0.85
17:O3:158:GLU:O	18:P3:315:GLU:OE2	1.93	0.85
21:S4:683:LEU:N	21:S4:684:THR:HA	1.90	0.85
23:U1:398:ILE:O	31:c2:553:LEU:HA	1.76	0.85
23:U1:430:PRO:O	31:c2:465:PRO:HG3	1.76	0.85
28:Z1:410:ASN:C	30:b1:251:ILE:HD12	1.90	0.85
28:Z1:410:ASN:HD22	30:b1:252:ALA:N	1.73	0.85
2:A2:965:LYS:CE	6:D1:196:ILE:O	2.24	0.85
2:A2:980:ARG:HG3	6:D1:526:LEU:H	1.39	0.85
1:A3:1220:PRO:CG	2:A4:732:GLN:OE1	2.23	0.85
1:A3:1231:VAL:O	3:A6:579:PHE:CB	2.22	0.85
2:A4:726:ALA:O	3:A6:575:LEU:HD22	1.75	0.85
2:A4:777:LEU:HD13	3:A6:467:LEU:HD11	1.58	0.85
2:A4:798:LYS:CD	3:A6:314:TRP:NE1	2.39	0.85
2:A4:824:ASN:HD22	3:A6:158:ALA:CB	1.86	0.85
2:A4:889:VAL:CG1	3:A6:171:HIS:CD2	2.52	0.85
2:A4:908:LEU:N	6:D3:552:TYR:OH	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:909:LYS:N	6:D3:552:TYR:CZ	2.44	0.85
3:A5:1398:LYS:HB2	28:Z2:873:LEU:O	1.75	0.85
9:G1:257:THR:HA	17:O2:253:LEU:N	1.48	0.85
11:I1:922:ASP:H	15:M1:592:LEU:CG	1.73	0.85
11:I1:984:GLU:CB	15:M1:618:GLN:HE21	1.89	0.85
11:I1:1037:THR:HB	15:M1:624:ASN:ND2	1.90	0.85
11:I1:1104:LEU:CA	16:N1:436:ALA:HB1	2.06	0.85
11:I2:921:GLU:H	15:M3:592:LEU:CG	1.64	0.85
11:I2:950:LEU:CB	16:N3:406:HIS:CD2	2.59	0.85
11:I2:978:LYS:NZ	20:R3:155:GLU:CB	2.40	0.85
11:I3:815:ILE:HG21	26:X1:497:ARG:HB3	1.56	0.85
22:T1:741:ASP:HA	31:c5:24:GLN:HE22	1.39	0.85
23:U1:398:ILE:H	31:c2:552:ARG:CZ	1.90	0.85
28:Z1:526:ARG:N	30:b1:208:ASN:ND2	2.25	0.85
28:Z1:541:PRO:HD2	30:b1:180:GLY:CA	2.05	0.85
28:Z1:554:PHE:CD1	30:b1:232:PRO:HB2	2.10	0.85
1:A1:874:VAL:HG21	6:D3:272:VAL:CB	2.01	0.85
2:A2:227:SER:HB3	6:D1:711:PHE:CB	2.05	0.85
2:A2:235:TYR:CE1	4:B2:347:LEU:CB	2.59	0.85
2:A2:876:ARG:NH1	6:D1:563:GLU:H	1.69	0.85
2:A2:983:LEU:HB3	6:D1:553:PHE:HB3	0.90	0.85
2:A2:1139:ILE:CG2	3:A5:130:ILE:HG22	1.73	0.85
1:A3:1269:ALA:HA	3:A6:554:GLN:CB	2.06	0.85
1:A3:1273:ALA:N	3:A6:554:GLN:CB	2.30	0.85
2:A4:235:TYR:CE1	4:B4:347:LEU:CB	2.59	0.85
2:A4:689:LYS:HE3	3:A6:406:LEU:HD13	1.58	0.85
2:A4:754:HIS:O	3:A6:544:PHE:CA	2.23	0.85
2:A4:760:LEU:N	3:A6:388:GLU:HG3	1.89	0.85
2:A4:780:GLU:OE2	3:A6:565:THR:HG23	1.75	0.85
2:A4:790:ASP:C	3:A6:187:THR:HG22	2.01	0.85
3:A5:1098:ARG:CD	11:I5:29:GLN:CD	2.49	0.85
8:F1:158:PRO:HG2	11:I1:1207:PRO:N	1.91	0.85
8:F2:1090:PRO:CG	17:O4:245:GLU:CD	2.33	0.85
11:I1:834:SER:HA	17:O1:237:PRO:O	1.70	0.85
11:I1:951:LYS:HG3	16:N1:400:LEU:C	1.99	0.85
11:I1:1021:ILE:HD12	16:N1:410:MET:CA	2.01	0.85
11:I1:1665:LEU:CD1	11:I2:1667:GLN:HE21	1.88	0.85
11:I2:1054:ILE:N	17:O3:279:ILE:O	2.08	0.85
23:U2:407:VAL:CA	31:c4:542:LYS:HG2	2.06	0.85
26:X2:292:LEU:O	34:i:448:PHE:CZ	2.28	0.85
28:Z1:293:LEU:HD13	28:Z1:297:LEU:HD12	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:293:LEU:HD13	28:Z2:297:LEU:HD12	1.59	0.85
28:Z2:531:LYS:HB3	30:b2:182:PRO:O	1.77	0.85
28:Z3:530:LYS:HB3	30:b3:204:GLU:CD	2.01	0.85
28:Z3:539:GLU:CB	30:b3:165:THR:N	2.39	0.85
28:Z4:523:ASP:OD2	30:b4:239:THR:CB	2.23	0.85
2:A2:200:VAL:HG21	4:B2:351:GLU:O	1.76	0.85
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG13	1.35	0.85
1:A3:1131:ILE:CA	3:A6:653:ARG:NH2	2.38	0.85
1:A3:1261:TYR:CE2	3:A6:679:TYR:HE1	1.92	0.85
2:A4:874:VAL:O	6:D3:567:LEU:HB2	1.76	0.85
2:A4:949:PHE:C	4:B6:348:PRO:HD3	2.02	0.85
9:G1:251:TYR:CA	17:O2:258:GLU:OE2	2.11	0.85
9:G1:254:ASN:CG	15:M2:605:THR:HB	2.01	0.85
9:G2:256:GLN:HG2	17:O4:262:ASP:HB2	1.58	0.85
11:I1:877:ILE:CB	17:O1:252:VAL:N	2.20	0.85
11:I1:881:ILE:CG1	17:O1:249:ARG:O	2.24	0.85
11:I1:945:LEU:HD11	17:O1:254:ARG:O	1.04	0.85
11:I1:990:GLU:HG2	17:O1:275:LEU:CB	2.07	0.85
11:I2:920:PHE:HZ	17:O3:247:TRP:CE3	1.95	0.85
11:I2:976:ARG:HH12	15:M3:622:VAL:HG21	1.41	0.85
11:I2:1186:PRO:HG3	17:O4:225:GLN:HE22	1.35	0.85
22:T2:836:ALA:O	31:c4:333:LEU:HD21	1.73	0.85
23:U2:15:PHE:CD2	31:c4:478:SER:N	2.45	0.85
23:U2:23:LYS:CA	31:c4:487:PHE:HB3	2.07	0.85
23:U2:398:ILE:HD11	31:c4:535:VAL:CG2	2.06	0.85
26:X2:187:THR:HG22	34:i:444:GLU:CA	1.96	0.85
28:Z3:410:ASN:HD22	30:b3:252:ALA:N	1.73	0.85
28:Z4:401:THR:O	30:b4:254:SER:OG	1.93	0.85
28:Z4:530:LYS:HB3	30:b4:204:GLU:CD	2.01	0.85
2:A2:970:PHE:C	6:D1:202:GLN:CG	2.50	0.85
1:A3:1190:ILE:O	3:A6:612:ALA:O	1.95	0.85
1:A3:1229:VAL:HG13	3:A6:574:ARG:HA	1.56	0.85
1:A3:1285:LEU:HD11	3:A6:581:LYS:CB	2.07	0.85
2:A4:90:GLN:HE22	3:A6:427:MET:CB	1.89	0.85
2:A4:91:LEU:CD1	3:A6:104:PRO:HG3	2.07	0.85
2:A4:641:ALA:O	3:A6:502:THR:HA	1.76	0.85
2:A4:857:LYS:HD2	3:A6:129:ASN:CB	2.06	0.85
2:A4:988:ARG:NH2	6:D3:499:LEU:C	2.34	0.85
3:A5:233:THR:C	5:C2:738:ASP:H	1.79	0.85
3:A5:999:SER:CB	11:I5:63:PRO:HD2	2.05	0.85
3:A5:1026:PRO:HG3	11:I5:102:ILE:HD13	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1369:ILE:HG21	28:Z2:830:LEU:C	1.55	0.85
3:A5:1372:THR:HB	28:Z2:828:LEU:CA	2.07	0.85
6:D5:243:LYS:HB3	31:c3:470:ARG:HH22	0.88	0.85
9:G1:253:SER:OG	15:M2:601:ASP:CG	2.19	0.85
11:I1:952:LEU:H	17:O1:253:LEU:HD13	1.37	0.85
11:I1:982:GLN:CG	15:M1:621:ARG:NH2	2.31	0.85
11:I2:934:LEU:HB3	15:M3:602:MET:O	0.93	0.85
11:I3:774:LYS:HB3	29:a2:38:ASP:OD1	1.77	0.85
23:U2:398:ILE:CG1	31:c4:535:VAL:CB	2.48	0.85
26:X1:159:ILE:HG12	26:X1:175:LEU:HB3	1.59	0.85
26:X2:159:ILE:HG12	26:X2:175:LEU:HB3	1.59	0.85
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:HE1	1.86	0.85
1:A1:1200:ARG:HB3	2:A2:727:ASN:C	2.02	0.85
1:A1:1226:LEU:H	2:A2:725:GLU:CD	1.84	0.85
2:A2:974:PRO:N	6:D1:205:LEU:HD23	1.91	0.85
1:A3:1083:SER:N	6:D3:798:MET:HE2	1.66	0.85
1:A3:1226:LEU:CA	3:A6:551:GLN:HG3	2.06	0.85
1:A3:1264:ASN:O	3:A6:683:LEU:HD13	1.76	0.85
1:A3:1269:ALA:CA	3:A6:554:GLN:CB	2.54	0.85
1:A3:1277:TRP:HE3	3:A6:577:ASP:OD1	1.59	0.85
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ2	0.75	0.85
2:A4:543:GLY:CA	3:A6:365:MET:N	2.39	0.85
2:A4:576:VAL:HG12	3:A6:509:LYS:CE	2.05	0.85
2:A4:706:PRO:HD2	3:A6:463:ASP:O	1.76	0.85
2:A4:925:LYS:NZ	3:A6:233:THR:CA	2.40	0.85
2:A4:1151:THR:CG2	5:C4:734:VAL:CA	2.54	0.85
8:F1:1137:GLN:C	17:O2:244:GLU:O	2.20	0.85
11:I1:797:LEU:CG	17:O1:245:GLU:HG3	2.05	0.85
11:I1:945:LEU:HG	17:O1:257:ALA:N	1.90	0.85
11:I1:1051:LYS:HE3	17:O1:289:ASP:H	0.92	0.85
11:I1:1113:LEU:C	16:N1:435:ALA:HB1	2.02	0.85
11:I2:879:VAL:HB	17:O3:251:ILE:HD12	1.59	0.85
11:I2:883:ALA:HB2	17:O3:243:LEU:O	1.75	0.85
11:I2:891:LEU:HD12	16:N3:393:ILE:HD12	0.85	0.85
11:I2:917:TYR:CD2	15:M3:587:GLU:C	2.54	0.85
11:I2:945:LEU:HD12	17:O3:255:GLY:O	1.75	0.85
22:T1:816:LYS:CD	31:c5:85:ARG:NH1	2.40	0.85
23:U2:392:LEU:HD13	31:c4:552:ARG:HH21	1.40	0.85
26:X2:359:GLY:O	34:i:419:THR:O	1.92	0.85
28:Z2:410:ASN:HD22	30:b2:252:ALA:N	1.73	0.85
28:Z3:293:LEU:HD13	28:Z3:297:LEU:HD12	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1202:GLU:N	2:A2:729:SER:O	2.08	0.85
1:A1:1224:PRO:HG3	2:A2:731:ILE:HB	1.59	0.85
2:A2:970:PHE:CG	6:D1:196:ILE:CD1	2.60	0.85
2:A2:1019:ARG:NH1	6:D1:237:PRO:O	2.09	0.85
2:A2:1139:ILE:HG23	3:A5:130:ILE:HG22	1.56	0.85
1:A3:1261:TYR:HB3	3:A6:621:GLN:CA	2.06	0.85
2:A4:200:VAL:HG21	4:B4:351:GLU:O	1.77	0.85
2:A4:777:LEU:CD1	3:A6:526:ILE:HA	2.07	0.85
2:A4:820:LYS:CB	3:A6:148:GLY:H	1.89	0.85
2:A4:910:TYR:HD1	6:D3:555:ARG:O	1.59	0.85
2:A4:970:PHE:N	6:D3:202:GLN:CD	2.30	0.85
3:A5:232:LEU:CG	5:C2:739:MET:HG3	2.07	0.85
3:A5:232:LEU:HD11	5:C2:739:MET:CG	2.00	0.85
3:A5:234:LEU:N	5:C2:737:LYS:C	2.33	0.85
3:A5:1367:THR:HG22	28:Z2:844:CYS:C	1.69	0.85
3:A6:446:LEU:HG	6:D3:730:ARG:HG3	1.57	0.85
11:I1:934:LEU:H	15:M1:601:ASP:C	1.85	0.85
11:I1:966:TRP:NE1	20:R1:165:SER:O	2.10	0.85
11:I1:1023:ASP:OD2	16:N1:405:ALA:HB1	1.76	0.85
11:I1:1603:ARG:HB3	11:I2:1738:TYR:O	1.76	0.85
11:I2:1065:SER:CB	17:O3:274:GLY:O	2.24	0.85
22:T1:885:ARG:HG3	22:T1:885:ARG:HH11	1.39	0.85
23:U2:394:ILE:HG23	31:c4:535:VAL:C	2.01	0.85
28:Z1:561:GLN:HG3	30:b1:236:THR:HA	1.58	0.85
28:Z2:535:ILE:HG12	30:b2:182:PRO:HG3	1.58	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:CD1	2.07	0.84
2:A2:980:ARG:HA	6:D1:503:LEU:H	1.42	0.84
1:A3:1228:TYR:HB3	3:A6:551:GLN:HB3	1.58	0.84
1:A3:1230:TYR:HD2	3:A6:575:LEU:CD1	1.86	0.84
1:A3:1259:CYS:SG	3:A6:623:SER:C	2.60	0.84
1:A3:1261:TYR:CD2	3:A6:679:TYR:CZ	2.64	0.84
2:A4:616:ALA:N	3:A6:509:LYS:HB2	1.92	0.84
2:A4:771:ILE:CD1	3:A6:476:PHE:CD2	2.60	0.84
2:A4:798:LYS:HE2	3:A6:264:GLU:CD	2.02	0.84
2:A4:818:LEU:C	3:A6:147:LEU:HB2	2.01	0.84
2:A4:867:GLU:O	6:D3:584:LEU:HD23	1.77	0.84
2:A4:917:LEU:HB3	4:B6:342:ARG:CD	2.05	0.84
2:A4:975:GLU:O	6:D3:501:LEU:CB	2.25	0.84
3:A5:1026:PRO:HG2	11:I5:73:TYR:CD1	2.10	0.84
9:G1:251:TYR:O	15:M2:602:MET:SD	2.34	0.84
11:I1:884:LEU:HD23	17:O1:246:LEU:CD1	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1048:GLU:HB3	17:O3:284:LYS:C	2.01	0.84
11:I2:1055:GLU:O	17:O3:277:GLU:O	1.94	0.84
17:O1:104:ASP:CG	18:P1:322:LYS:HE3	2.02	0.84
17:O2:112:GLY:HA3	18:P2:325:ILE:HG23	1.57	0.84
21:S3:1120:PRO:HD3	21:S3:1155:GLN:NE2	1.92	0.84
23:U1:435:PHE:CD2	31:c2:477:GLU:CG	2.51	0.84
26:X2:329:ARG:HD2	34:i:476:LEU:CD2	1.95	0.84
28:Z1:531:LYS:HB3	30:b1:182:PRO:O	1.76	0.84
28:Z2:523:ASP:CB	30:b2:238:ASN:CA	1.89	0.84
28:Z3:524:VAL:CG1	30:b3:236:THR:C	2.50	0.84
28:Z4:561:GLN:HG3	30:b4:236:THR:HA	1.59	0.84
1:A1:875:LEU:HD12	6:D3:276:GLY:O	1.76	0.84
1:A1:1200:ARG:HE	2:A2:642:ARG:HH21	0.88	0.84
2:A2:1151:THR:CG2	5:C2:734:VAL:CA	2.54	0.84
1:A3:1248:ILE:HG12	3:A6:587:VAL:HA	1.00	0.84
1:A3:1268:ASP:H	3:A6:553:ASP:CA	1.90	0.84
2:A4:861:GLN:C	6:D3:607:PRO:CG	2.49	0.84
6:D5:243:LYS:CA	31:c3:470:ARG:HH22	1.90	0.84
11:I1:980:ILE:C	15:M1:618:GLN:HA	2.02	0.84
11:I1:1037:THR:HG23	20:R1:170:LEU:N	1.90	0.84
11:I1:1052:LEU:HD11	15:M1:623:LEU:CD1	2.07	0.84
11:I2:947:LEU:HD21	16:N3:411:GLN:HG2	0.85	0.84
11:I2:961:ARG:NH2	16:N3:388:LYS:CB	2.39	0.84
11:I2:1021:ILE:CD1	16:N3:410:MET:HE2	2.07	0.84
11:I2:1021:ILE:HD11	16:N3:410:MET:HG3	1.59	0.84
11:I2:1036:PRO:HG3	17:O3:287:LEU:HD21	1.58	0.84
11:I2:1037:THR:HG21	20:R3:173:LEU:HD22	1.56	0.84
21:S1:1120:PRO:HD3	21:S1:1155:GLN:HE22	1.41	0.84
23:U2:363:VAL:HB	31:c4:545:PRO:HG3	1.59	0.84
28:Z1:530:LYS:HB3	30:b1:204:GLU:CD	2.01	0.84
2:A2:224:PRO:CD	6:D1:709:ARG:NH1	2.32	0.84
2:A2:980:ARG:CD	6:D1:526:LEU:H	1.90	0.84
2:A4:552:PHE:HZ	3:A6:109:ASP:OD2	1.58	0.84
2:A4:793:SER:CB	3:A6:146:LYS:HD3	2.06	0.84
2:A4:806:PHE:HD2	3:A6:395:MET:HE2	1.37	0.84
2:A4:879:LEU:CG	6:D3:564:ASN:CG	2.50	0.84
2:A4:897:ASN:HA	3:A6:165:PHE:CD1	2.11	0.84
2:A4:966:LEU:O	6:D3:202:GLN:CD	2.19	0.84
2:A4:980:ARG:O	6:D3:496:LEU:HD13	1.77	0.84
11:I1:896:PRO:C	17:O1:232:LYS:HB3	2.01	0.84
11:I1:927:HIS:NE2	15:M1:594:LYS:CB	2.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:940:LEU:HB2	17:O1:259:ASP:O	1.78	0.84
11:I1:946:THR:O	16:N1:407:ALA:HB2	1.74	0.84
11:I1:950:LEU:CB	16:N1:403:VAL:O	2.25	0.84
11:I1:983:LEU:O	15:M1:614:ASP:OD2	1.95	0.84
11:I2:896:PRO:CA	17:O3:233:THR:N	2.22	0.84
11:I2:898:VAL:CG2	17:O3:236:ASP:C	2.50	0.84
11:I2:1021:ILE:HA	16:N3:406:HIS:HE1	1.27	0.84
11:I2:1036:PRO:HG2	15:M3:622:VAL:C	2.02	0.84
11:I3:1273:GLU:HB3	26:X1:526:CYS:C	2.02	0.84
21:S1:1097:LYS:HZ3	21:S1:1101:PHE:HE1	1.22	0.84
21:S3:684:THR:HA	21:S4:1147:ASN:CA	2.08	0.84
23:U1:201:LYS:CD	31:c1:625:PRO:CD	2.53	0.84
23:U1:431:ILE:HG12	31:c2:469:SER:N	1.88	0.84
23:U2:407:VAL:O	31:c4:542:LYS:CG	2.26	0.84
26:X2:340:GLY:C	34:i:403:SER:OG	2.19	0.84
28:Z1:524:VAL:CG1	30:b1:236:THR:C	2.50	0.84
28:Z4:526:ARG:N	30:b4:208:ASN:ND2	2.25	0.84
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD1	2.60	0.84
1:A3:1233:GLN:HG3	3:A6:575:LEU:HA	1.57	0.84
1:A3:1278:PRO:HB2	3:A6:624:ASP:C	1.97	0.84
1:A3:1390:LEU:HD12	3:A6:228:GLY:CA	2.07	0.84
2:A4:85:VAL:O	3:A6:406:LEU:N	2.10	0.84
2:A4:680:LEU:HD21	3:A6:470:ARG:CZ	2.06	0.84
2:A4:951:GLU:CD	3:A6:233:THR:HB	2.00	0.84
2:A4:970:PHE:CA	6:D3:192:TYR:OH	2.19	0.84
2:A4:988:ARG:HG2	6:D3:500:LYS:HG3	1.58	0.84
3:A5:1090:SER:C	11:I5:36:GLU:CG	2.44	0.84
3:A5:1376:LEU:CD1	28:Z2:810:ASP:CB	2.53	0.84
3:A5:1395:LYS:HA	28:Z2:874:ASN:N	1.91	0.84
11:I1:840:LEU:HB3	17:O1:243:LEU:CB	2.08	0.84
11:I1:957:SER:CA	20:R1:166:LEU:HD13	2.07	0.84
11:I2:834:SER:CA	17:O3:237:PRO:O	2.26	0.84
11:I2:915:ALA:O	15:M3:585:LEU:HB3	1.76	0.84
11:I2:1113:LEU:HD22	17:O3:282:LYS:HZ3	1.40	0.84
11:I3:1267:LEU:HB3	26:X1:497:ARG:HH22	0.68	0.84
22:T1:736:LEU:CB	31:c5:19:THR:HG23	0.58	0.84
23:U1:401:PRO:C	31:c2:549:ALA:O	2.20	0.84
24:V2:631:GLN:N	31:c2:85:ARG:HH21	1.74	0.84
26:X2:283:ASP:O	34:i:493:PRO:CD	2.24	0.84
28:Z1:555:LYS:C	30:b1:212:PHE:CB	2.51	0.84
28:Z2:561:GLN:HG3	30:b2:236:THR:HA	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:528:ILE:CG1	30:b4:210:ARG:CZ	2.52	0.84
28:Z4:531:LYS:HB3	30:b4:182:PRO:O	1.76	0.84
1:A1:1204:TRP:HH2	2:A2:757:LEU:HD22	1.06	0.84
1:A1:1226:LEU:N	2:A2:725:GLU:CG	2.39	0.84
1:A3:1186:TRP:CH2	3:A6:637:THR:HG22	2.10	0.84
1:A3:1274:ASP:CB	3:A6:556:PRO:CA	2.48	0.84
1:A3:1281:LEU:CD1	3:A6:577:ASP:O	2.26	0.84
2:A4:618:ALA:HA	3:A6:498:ARG:NH1	1.77	0.84
2:A4:781:ARG:HH22	6:D3:633:LYS:CD	1.86	0.84
2:A4:971:ALA:H	6:D3:202:GLN:HG2	1.43	0.84
2:A4:983:LEU:HG	6:D3:528:PHE:CZ	2.03	0.84
2:A4:985:ALA:HB1	6:D3:501:LEU:N	1.91	0.84
3:A6:1411:ARG:CG	26:X4:690:THR:N	2.41	0.84
9:G2:256:GLN:H	17:O4:262:ASP:CG	1.85	0.84
11:I1:1055:GLU:N	17:O1:281:ALA:H	1.76	0.84
11:I1:1739:GLU:O	11:I2:1604:ALA:N	1.93	0.84
11:I2:917:TYR:HD2	15:M3:591:ASP:H	0.95	0.84
21:S3:686:ALA:N	21:S4:1149:GLU:O	1.96	0.84
23:U2:398:ILE:CG1	31:c4:535:VAL:H	1.87	0.84
26:X2:284:ALA:N	34:i:479:THR:HA	1.93	0.84
26:X2:340:GLY:O	34:i:403:SER:OG	1.96	0.84
28:Z1:539:GLU:CB	30:b1:165:THR:N	2.39	0.84
28:Z4:524:VAL:CG1	30:b4:236:THR:C	2.50	0.84
2:A2:781:ARG:HE	6:D1:673:ARG:CB	1.87	0.84
2:A2:827:ILE:CD1	2:A2:859:GLN:HB2	2.07	0.84
2:A4:90:GLN:N	3:A6:407:SER:H	1.73	0.84
2:A4:767:ILE:C	3:A6:469:PHE:O	2.21	0.84
2:A4:851:ASP:HA	3:A6:171:HIS:HB2	1.60	0.84
2:A4:867:GLU:HG3	6:D3:605:THR:HG21	0.85	0.84
2:A4:868:GLN:CB	6:D3:570:VAL:CG2	2.48	0.84
2:A4:869:ALA:HB1	6:D3:573:LEU:CD2	2.07	0.84
2:A4:889:VAL:HG21	3:A6:174:PRO:CB	2.07	0.84
2:A4:976:LEU:N	6:D3:496:LEU:CA	2.13	0.84
3:A5:1310:ARG:HH21	28:Z2:827:GLN:CA	1.89	0.84
11:I1:837:MET:SD	17:O1:243:LEU:N	2.48	0.84
11:I1:880:MET:HB2	17:O1:250:LEU:HB3	0.86	0.84
11:I1:982:GLN:C	15:M1:621:ARG:NH2	2.30	0.84
11:I1:984:GLU:HB2	15:M1:618:GLN:HE21	1.41	0.84
11:I1:1013:GLU:C	16:N1:411:GLN:O	2.19	0.84
11:I1:1068:HIS:HE1	16:N1:431:VAL:CB	1.90	0.84
11:I1:1674:HIS:HA	11:I2:1635:HIS:NE2	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:790:LEU:CD2	17:O3:251:ILE:HD13	2.08	0.84
11:I2:836:VAL:HG11	17:O3:244:GLU:HB3	1.54	0.84
11:I2:921:GLU:C	15:M3:593:ALA:CA	2.50	0.84
11:I2:1046:HIS:O	17:O3:284:LYS:N	2.11	0.84
11:I2:1052:LEU:HD21	16:N3:434:LEU:HD11	1.58	0.84
22:T1:736:LEU:HB3	31:c5:19:THR:CG2	0.76	0.84
23:U2:115:GLN:CG	31:c4:92:THR:OG1	2.22	0.84
23:U2:398:ILE:HG12	31:c4:535:VAL:HG12	1.58	0.84
23:U2:403:SER:CB	31:c4:551:LEU:HD21	2.06	0.84
24:V1:380:PHE:CA	31:c1:31:TYR:OH	2.24	0.84
26:X2:318:GLY:H	34:i:400:LYS:HE3	1.43	0.84
26:X2:361:LEU:HD11	34:i:441:LEU:CD1	2.08	0.84
26:X3:159:ILE:HG12	26:X3:175:LEU:HB3	1.59	0.84
28:Z2:531:LYS:NZ	30:b2:166:LEU:CB	2.39	0.84
28:Z3:561:GLN:HG3	30:b3:236:THR:HA	1.58	0.84
2:A2:980:ARG:CG	6:D1:526:LEU:H	1.91	0.84
1:A3:1332:ARG:HE	6:D3:636:ASP:HB3	1.41	0.84
2:A4:79:ALA:CB	3:A6:321:ASP:OD1	2.25	0.84
2:A4:171:HIS:HE2	6:D3:708:ASP:CG	1.84	0.84
2:A4:173:ASN:ND2	6:D3:762:ARG:HB3	1.91	0.84
2:A4:552:PHE:O	3:A6:434:PHE:C	2.21	0.84
2:A4:771:ILE:HD11	3:A6:476:PHE:CD1	2.12	0.84
2:A4:780:GLU:CB	3:A6:524:ARG:CB	2.55	0.84
2:A4:806:PHE:CD2	3:A6:395:MET:HE1	2.11	0.84
2:A4:823:VAL:HG11	3:A6:167:TRP:HZ2	1.11	0.84
2:A4:858:ALA:C	6:D3:606:LYS:CE	2.51	0.84
2:A4:893:LEU:HD11	3:A6:175:GLU:CA	2.07	0.84
2:A4:908:LEU:O	6:D3:555:ARG:HB3	1.78	0.84
3:A5:234:LEU:CA	5:C2:738:ASP:HA	2.08	0.84
3:A5:1005:PHE:CE1	11:I5:67:LYS:NZ	2.46	0.84
3:A6:1392:ARG:C	28:Z4:913:ILE:H	1.86	0.84
11:I1:952:LEU:CA	16:N1:403:VAL:HG21	2.04	0.84
11:I1:990:GLU:HB2	15:M1:611:LYS:HE3	1.60	0.84
11:I1:1066:LEU:CB	16:N1:430:ARG:CG	2.53	0.84
11:I1:1106:LYS:CB	16:N1:440:GLU:OE2	2.26	0.84
11:I1:1739:GLU:N	11:I2:1607:GLN:OE1	2.09	0.84
11:I2:889:THR:CB	17:O3:242:ARG:CD	2.46	0.84
11:I2:1066:LEU:HG	16:N3:430:ARG:HB3	1.59	0.84
21:S1:658:SER:O	21:S2:1105:LEU:CD1	2.20	0.84
21:S2:1120:PRO:HD3	21:S2:1155:GLN:NE2	1.92	0.84
21:S4:1120:PRO:HD3	21:S4:1155:GLN:NE2	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:24:ILE:CG2	31:c4:485:GLU:CG	2.56	0.84
26:X2:284:ALA:N	34:i:479:THR:CA	2.40	0.84
28:Z3:555:LYS:HB3	30:b3:212:PHE:CA	2.05	0.84
28:Z4:293:LEU:HD13	28:Z4:297:LEU:HD12	1.59	0.84
28:Z4:534:ASP:N	30:b4:164:CYS:HB3	1.93	0.84
28:Z4:555:LYS:C	30:b4:212:PHE:CB	2.51	0.84
2:A2:980:ARG:HA	6:D1:473:GLU:OE2	1.76	0.84
1:A3:1186:TRP:CE3	3:A6:641:ALA:CB	2.60	0.84
1:A3:1236:GLN:OE1	3:A6:578:ILE:HG23	1.77	0.84
1:A3:1241:ARG:NH1	3:A6:593:ALA:C	2.36	0.84
1:A3:1249:PHE:CE1	3:A6:584:GLY:N	2.44	0.84
1:A3:1393:THR:HG1	3:A6:228:GLY:C	1.83	0.84
2:A4:710:LEU:HD22	3:A6:465:SER:HA	1.60	0.84
2:A4:780:GLU:CB	3:A6:564:ASN:ND2	2.26	0.84
8:F1:158:PRO:CG	11:I1:1207:PRO:N	2.39	0.84
8:F1:1262:HIS:CD2	17:O2:259:ASP:CB	2.61	0.84
11:I1:849:LEU:HD12	17:O1:247:TRP:CE3	2.12	0.84
11:I1:899:LEU:CD1	17:O1:233:THR:N	2.35	0.84
11:I1:913:ALA:HB3	15:M1:584:GLN:HG2	1.60	0.84
11:I1:919:ALA:CA	16:N1:389:PHE:HA	2.04	0.84
11:I1:958:THR:H	16:N1:399:HIS:CD2	1.96	0.84
11:I1:991:THR:CG2	15:M1:611:LYS:N	2.38	0.84
11:I2:980:ILE:HD13	15:M3:622:VAL:HG22	1.58	0.84
18:P1:279:GLY:H	18:P4:322:LYS:CD	1.88	0.84
21:S1:1120:PRO:HD3	21:S1:1155:GLN:NE2	1.92	0.84
23:U2:22:PHE:CZ	31:c4:531:TRP:CE2	2.23	0.84
23:U2:48:GLN:HB3	31:c4:472:GLU:CD	2.03	0.84
23:U2:48:GLN:H	31:c4:472:GLU:HG3	1.42	0.84
26:X2:304:ARG:NE	34:i:315:LEU:O	2.11	0.84
28:Z2:526:ARG:CA	30:b2:206:ASN:ND2	2.41	0.84
28:Z2:539:GLU:CB	30:b2:165:THR:N	2.40	0.84
28:Z3:525:LEU:N	30:b3:208:ASN:OD1	2.11	0.84
28:Z3:531:LYS:HB3	30:b3:182:PRO:O	1.76	0.84
28:Z3:534:ASP:N	30:b3:164:CYS:HB3	1.93	0.84
28:Z4:555:LYS:HB3	30:b4:212:PHE:CA	2.05	0.84
1:A1:1197:ALA:O	2:A2:728:LYS:HG3	1.78	0.84
1:A1:1220:PRO:C	2:A2:646:ILE:N	2.35	0.84
1:A3:1392:ARG:HB2	3:A6:225:THR:CB	1.86	0.84
2:A4:691:LYS:CE	3:A6:330:LEU:HG	2.07	0.84
2:A4:825:ARG:NH1	6:D3:633:LYS:HG3	1.93	0.84
3:A5:1094:ILE:O	11:I5:2:THR:O	1.96	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:446:LEU:HD12	6:D3:721:PRO:CA	1.94	0.84
11:I1:882:LYS:CB	17:O1:245:GLU:C	2.50	0.84
11:I1:895:ARG:NE	17:O1:233:THR:CB	2.41	0.84
11:I1:985:ARG:N	15:M1:612:PRO:O	2.10	0.84
11:I4:1282:PHE:HD2	29:a3:24[B]:GLY:O	1.59	0.84
23:U1:176:GLU:CD	31:c1:505:SER:CA	2.50	0.84
23:U1:435:PHE:CD2	31:c2:477:GLU:HG2	2.13	0.84
23:U2:15:PHE:CD2	31:c4:477:GLU:C	2.56	0.84
23:U2:437:ASN:N	31:c4:195:ILE:HD12	1.93	0.84
23:U3:278:GLN:HG3	25:W4:189:SER:OG	1.77	0.84
23:U3:279:TYR:CD2	25:W4:189:SER:O	2.05	0.84
26:X2:205:ILE:HG13	34:i:445:GLN:O	1.75	0.84
26:X2:283:ASP:HB3	34:i:479:THR:CB	1.88	0.84
1:A3:1223:GLU:HG3	2:A4:734:LEU:CD1	2.07	0.84
1:A3:1245:ASP:HB3	3:A6:587:VAL:CG1	2.07	0.84
2:A4:702:SER:CB	3:A6:379:VAL:HG13	2.07	0.84
2:A4:713:ILE:CG1	3:A6:462:LEU:HD13	2.08	0.84
2:A4:714:GLN:C	3:A6:491:VAL:C	2.46	0.84
2:A4:770:GLY:O	3:A6:469:PHE:HD2	1.28	0.84
2:A4:886:PHE:O	3:A6:175:GLU:CB	2.25	0.84
3:A5:157:TRP:HH2	5:C2:747:PRO:HA	1.43	0.84
11:I1:923:GLY:HA2	15:M1:589:GLY:O	1.75	0.84
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB3	0.85	0.84
11:I1:1602:PHE:CD1	11:I2:1666:THR:HG21	2.12	0.84
11:I2:879:VAL:O	17:O3:249:ARG:N	2.09	0.84
22:T1:833:ARG:CZ	31:c5:20:PRO:HD2	2.07	0.84
23:U1:431:ILE:CD1	31:c2:469:SER:N	2.19	0.84
23:U2:24:ILE:HD11	31:c4:481:ILE:O	1.78	0.84
23:U2:75:TRP:CD2	31:c4:475:ALA:HB1	2.12	0.84
23:U2:440:ASP:CG	31:c4:345:MET:CE	2.50	0.84
26:X2:283:ASP:C	34:i:479:THR:CB	2.51	0.84
26:X2:324:ILE:HD11	34:i:476:LEU:CB	2.08	0.84
28:Z2:555:LYS:C	30:b2:212:PHE:CB	2.51	0.84
28:Z3:535:ILE:HG12	30:b3:182:PRO:HG3	1.57	0.84
28:Z4:535:ILE:HG12	30:b4:182:PRO:HG3	1.58	0.84
2:A2:780:GLU:N	6:D1:679:ILE:N	2.23	0.83
2:A2:975:GLU:OE2	6:D1:501:LEU:HG	1.78	0.83
2:A4:615:LEU:HD21	3:A6:499:ILE:HD11	1.57	0.83
2:A4:720:LEU:HD12	3:A6:510:TYR:CD1	2.08	0.83
2:A4:768:SER:CA	3:A6:477:PHE:N	2.39	0.83
2:A4:826:ASN:CG	6:D3:633:LYS:CB	2.51	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:970:PHE:HA	6:D3:192:TYR:CZ	2.12	0.83
3:A5:165:PHE:CA	5:C2:743:LEU:HB2	2.07	0.83
3:A6:1375:THR:HB	28:Z4:826:TYR:O	1.78	0.83
11:I1:947:LEU:CG	16:N1:408:MET:HA	2.08	0.83
11:I1:1038:ILE:N	20:R1:169:GLY:HA3	1.93	0.83
11:I2:834:SER:HA	17:O3:237:PRO:O	1.75	0.83
11:I2:1037:THR:HG22	15:M3:623:LEU:HD22	1.60	0.83
11:I2:1048:GLU:HB2	17:O3:284:LYS:CA	2.08	0.83
11:I2:1106:LYS:HA	16:N3:439:ARG:HH12	1.05	0.83
23:U1:18:THR:HG21	31:c2:473:THR:CG2	2.07	0.83
23:U1:21:GLU:OE1	31:c2:472:GLU:CB	2.25	0.83
26:X2:293:LYS:CG	34:i:450:GLU:OE2	2.22	0.83
26:X2:296:PRO:O	34:i:447:CYS:C	2.20	0.83
28:Z1:526:ARG:CA	30:b1:206:ASN:ND2	2.41	0.83
28:Z4:556:ASN:ND2	30:b4:166:LEU:HD23	1.90	0.83
2:A2:908:LEU:HD23	6:D1:602:THR:N	1.93	0.83
2:A2:1124:ARG:O	3:A5:136:GLU:HA	1.77	0.83
1:A3:1166:LEU:C	3:A6:594:LEU:HB3	2.02	0.83
1:A3:1257:VAL:HG12	3:A6:620:GLY:CA	1.99	0.83
1:A3:1325:MET:CG	3:A6:126:ARG:HH21	1.91	0.83
2:A4:549:ALA:O	3:A6:432:VAL:O	1.97	0.83
2:A4:679:TYR:CZ	3:A6:511:PHE:HA	2.13	0.83
2:A4:688:TRP:O	3:A6:381:LEU:HA	1.78	0.83
2:A4:734:LEU:O	3:A6:549:ALA:HB3	0.92	0.83
2:A4:767:ILE:CA	3:A6:476:PHE:HA	1.71	0.83
2:A4:864:ARG:CD	6:D3:607:PRO:C	2.51	0.83
2:A4:965:LYS:HE3	6:D3:196:ILE:HA	1.59	0.83
2:A4:976:LEU:CD1	6:D3:501:LEU:HD22	2.07	0.83
2:A4:1333:ARG:NH2	2:A4:1348:GLU:OE2	2.12	0.83
3:A5:1398:LYS:HB3	28:Z2:873:LEU:O	1.78	0.83
3:A5:1416:ARG:C	28:Z2:963:LYS:HA	2.03	0.83
8:F1:1265:GLN:O	17:O2:265:ASN:CG	2.21	0.83
11:I1:952:LEU:CD1	15:M1:599:ILE:HG12	2.08	0.83
11:I1:1063:GLN:O	16:N1:428:ASP:CB	2.25	0.83
11:I1:1603:ARG:HB3	11:I2:1738:TYR:C	1.99	0.83
11:I2:833:PHE:CE1	17:O3:241:SER:C	2.56	0.83
11:I2:1029:LEU:HD21	20:R3:170:LEU:HD23	1.59	0.83
11:I2:1030:ARG:C	20:R3:172:ASP:O	2.21	0.83
11:I2:1046:HIS:O	17:O3:284:LYS:CG	2.26	0.83
21:S3:1097:LYS:HZ3	21:S3:1101:PHE:HE1	1.25	0.83
23:U1:172:LYS:HD3	31:c1:506:HIS:HB2	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:402:GLY:H	31:c2:552:ARG:N	1.76	0.83
26:X2:295:TYR:CB	34:i:448:PHE:CD2	2.52	0.83
28:Z1:534:ASP:N	30:b1:164:CYS:HB3	1.93	0.83
1:A1:874:VAL:HG11	6:D3:272:VAL:C	2.02	0.83
2:A2:781:ARG:HG3	6:D1:673:ARG:CA	2.07	0.83
2:A2:874:VAL:HG13	6:D1:611:LYS:CG	2.08	0.83
2:A2:968:SER:CA	6:D1:202:GLN:N	2.35	0.83
2:A2:1138:GLU:HB3	3:A5:147:LEU:CD1	2.08	0.83
1:A3:1201:ARG:CB	3:A6:92:ASP:CG	2.47	0.83
1:A3:1248:ILE:CD1	3:A6:640:LEU:CD1	2.49	0.83
2:A4:758:HIS:HA	3:A6:535:PHE:CE1	2.14	0.83
2:A4:780:GLU:HG2	3:A6:523:ASN:CA	2.08	0.83
2:A4:825:ARG:CZ	3:A6:564:ASN:HB2	2.07	0.83
2:A4:859:GLN:NE2	3:A6:134:VAL:HG21	1.93	0.83
2:A4:934:TRP:HZ2	4:B6:350:GLU:CG	1.89	0.83
2:A4:976:LEU:HG	6:D3:501:LEU:HB3	0.89	0.83
2:A4:1154:PHE:HB3	5:C4:733:LEU:CD1	2.08	0.83
6:D5:240:ASP:O	31:c3:470:ARG:CZ	2.26	0.83
9:G1:263:MET:CE	17:O2:256:TYR:CZ	2.49	0.83
11:I1:977:ASN:OD1	15:M1:621:ARG:CB	2.24	0.83
11:I1:1038:ILE:CD1	20:R1:167:GLN:OE1	2.26	0.83
11:I1:1672:VAL:CG2	11:I2:1611:PHE:CB	2.54	0.83
11:I2:841:PHE:HA	15:M3:591:ASP:CB	2.07	0.83
11:I2:888:GLU:H	16:N3:393:ILE:CG2	1.81	0.83
11:I2:934:LEU:O	15:M3:606:LEU:HA	1.76	0.83
23:U2:426:TYR:C	31:c4:463:HIS:ND1	2.35	0.83
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:HE1	1.86	0.83
28:Z1:525:LEU:N	30:b1:208:ASN:OD1	2.11	0.83
2:A2:864:ARG:NH1	6:D1:610:ASN:HD21	1.63	0.83
2:A2:983:LEU:CB	6:D1:528:PHE:CE1	2.62	0.83
2:A2:986:THR:CG2	6:D1:497:PHE:HE1	1.92	0.83
1:A3:1193:SER:OG	3:A6:610:THR:O	1.94	0.83
1:A3:1201:ARG:HG2	2:A4:728:LYS:CA	2.08	0.83
2:A4:710:LEU:N	3:A6:480:VAL:CG2	2.41	0.83
2:A4:735:ALA:O	3:A6:685:ARG:NH1	2.06	0.83
2:A4:767:ILE:HA	3:A6:470:ARG:N	1.92	0.83
2:A4:803:GLU:HB2	3:A6:395:MET:O	1.78	0.83
2:A4:865:ALA:CA	6:D3:567:LEU:CD2	2.44	0.83
2:A4:954:ILE:CB	4:B6:345:LYS:HA	2.06	0.83
3:A5:232:LEU:HD21	5:C2:738:ASP:C	2.03	0.83
3:A5:1364:GLN:HE21	28:Z2:843:LYS:HA	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:485:ASN:CB	6:D3:674:TYR:H	1.88	0.83
11:I1:833:PHE:CD2	17:O1:238:ALA:N	2.45	0.83
11:I1:874:LEU:HA	17:O1:251:ILE:O	1.78	0.83
11:I1:924:ILE:CD1	15:M1:596:ILE:HG13	2.07	0.83
11:I1:950:LEU:HD11	16:N1:410:MET:CB	2.07	0.83
11:I1:959:SER:CB	20:R1:166:LEU:HD21	2.08	0.83
11:I1:1048:GLU:OE2	20:R1:143:PHE:CB	2.27	0.83
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD13	1.54	0.83
11:I2:990:GLU:C	17:O3:271:GLU:HG2	2.02	0.83
11:I2:996:LEU:HD11	15:M3:607:SER:O	1.78	0.83
11:I3:1278:ALA:C	26:X1:520:GLU:CA	2.50	0.83
22:T1:736:LEU:CG	31:c5:19:THR:HG23	1.91	0.83
22:T1:833:ARG:NH2	31:c5:20:PRO:HD2	1.92	0.83
23:U1:198:GLU:OE2	31:c1:622:ILE:CD1	2.24	0.83
26:X2:317:PHE:HB3	34:i:400:LYS:CE	2.07	0.83
28:Z1:535:ILE:CG1	30:b1:182:PRO:HB3	1.97	0.83
1:A1:835:THR:N	6:D3:302:PRO:CB	2.39	0.83
1:A1:874:VAL:HG13	6:D3:272:VAL:HB	1.56	0.83
2:A2:908:LEU:HD23	6:D1:601:PHE:HB2	1.58	0.83
2:A2:988:ARG:CB	6:D1:500:LYS:NZ	1.83	0.83
1:A3:1189:LEU:HD23	3:A6:644:ALA:HB1	1.61	0.83
1:A3:1265:ASN:N	3:A6:716:ASN:CG	2.07	0.83
1:A3:1285:LEU:HD11	3:A6:581:LYS:HA	1.56	0.83
2:A4:861:GLN:CA	6:D3:607:PRO:CG	2.57	0.83
2:A4:870:HIS:HB3	6:D3:548:LEU:HA	1.61	0.83
3:A5:1026:PRO:CG	11:I5:102:ILE:HD13	2.08	0.83
3:A5:1395:LYS:CE	28:Z2:868:GLN:O	2.12	0.83
6:D5:234:LEU:HD11	31:c3:552:ARG:NE	1.91	0.83
11:I1:899:LEU:CD1	17:O1:230:ILE:C	2.47	0.83
11:I1:916:ALA:HB3	15:M1:586:ASP:CB	2.08	0.83
11:I1:926:SER:OG	20:R1:156:GLY:HA2	1.78	0.83
11:I2:950:LEU:CG	15:M3:606:LEU:CD2	2.56	0.83
11:I2:1109:LEU:CD1	17:O3:286:ILE:CG2	2.27	0.83
23:U2:26:GLN:N	31:c4:490:GLY:H	1.57	0.83
23:U2:407:VAL:HA	31:c4:542:LYS:HG2	1.58	0.83
23:U2:408:ASP:CG	31:c4:544:VAL:HA	2.00	0.83
26:X2:197:VAL:HG12	34:i:366:PHE:CD2	2.14	0.83
26:X2:201:ARG:NH1	34:i:420:TRP:NE1	1.96	0.83
28:Z2:524:VAL:CG1	30:b2:236:THR:C	2.50	0.83
28:Z3:561:GLN:HE22	30:b3:237:LEU:CD1	1.90	0.83
2:A2:1154:PHE:HB3	5:C2:733:LEU:CD1	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1056:PHE:CE2	6:D3:807:THR:O	2.30	0.83
1:A3:1098:ARG:HB3	11:I2:1414:CYS:HG	1.43	0.83
1:A3:1186:TRP:C	3:A6:618:ALA:CA	2.48	0.83
1:A3:1186:TRP:HH2	3:A6:583:LEU:CB	1.89	0.83
1:A3:1271:ILE:H	3:A6:553:ASP:C	1.87	0.83
2:A4:718:GLU:OE1	3:A6:491:VAL:HG12	1.77	0.83
2:A4:762:LYS:O	3:A6:471:PHE:HB3	1.76	0.83
2:A4:795:GLN:N	3:A6:249:SER:OG	2.12	0.83
2:A4:808:GLN:HE22	3:A6:328:TYR:HB2	1.42	0.83
2:A4:878:LEU:HD21	6:D3:607:PRO:HB2	1.53	0.83
2:A4:976:LEU:CD1	6:D3:472:PHE:CD2	2.46	0.83
9:G2:256:GLN:HG2	17:O4:262:ASP:CB	2.09	0.83
11:I1:1041:GLN:HG2	15:M1:616:LEU:CG	2.09	0.83
11:I2:944:GLU:HB3	17:O3:256:TYR:HD1	1.40	0.83
11:I2:1029:LEU:HD21	20:R3:170:LEU:CD2	2.07	0.83
11:I2:1040:HIS:HE2	16:N3:437:VAL:HG21	1.43	0.83
11:I2:1100:ILE:HG22	16:N3:433:GLU:CD	2.04	0.83
11:I2:1109:LEU:HD13	17:O3:290:TYR:CZ	2.13	0.83
11:I3:1278:ALA:H	26:X1:519:ILE:HG22	0.68	0.83
11:I4:1272:TYR:OH	29:a3:24[A]:GLY:HA3	1.78	0.83
18:P1:277:PRO:HB2	18:P4:322:LYS:N	1.93	0.83
23:U1:38:ILE:HG12	31:c2:473:THR:CG2	2.08	0.83
26:X2:198:GLU:HG2	34:i:335:HIS:O	1.78	0.83
26:X2:361:LEU:HG	34:i:423:LYS:HD3	1.57	0.83
28:Z1:410:ASN:HB3	30:b1:251:ILE:HD12	1.55	0.83
2:A2:823:VAL:HA	2:A2:856:PHE:HE1	0.73	0.83
2:A2:909:LYS:HA	6:D1:552:TYR:OH	1.78	0.83
2:A2:970:PHE:CA	6:D1:192:TYR:CE2	2.30	0.83
2:A2:1145:GLY:CA	3:A5:129:ASN:HD21	1.91	0.83
2:A2:1156:ASP:C	3:A5:176:LEU:HA	1.88	0.83
1:A3:1098:ARG:CD	11:I2:1478:VAL:HG22	2.04	0.83
1:A3:1265:ASN:OD1	3:A6:683:LEU:CD1	2.25	0.83
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ3	0.80	0.83
2:A4:679:TYR:HB3	3:A6:101:TYR:HD2	1.42	0.83
2:A4:859:GLN:NE2	3:A6:134:VAL:CG2	2.41	0.83
2:A4:866:SER:O	6:D3:598:ILE:CG1	2.16	0.83
2:A4:916:GLN:N	4:B6:342:ARG:HH11	1.76	0.83
2:A4:949:PHE:H	4:B6:348:PRO:HD2	1.42	0.83
2:A4:950:ASP:N	4:B6:348:PRO:CD	2.36	0.83
3:A5:233:THR:HA	5:C2:737:LYS:H	1.43	0.83
3:A6:565:THR:HG22	6:D3:633:LYS:HB3	0.86	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1367:THR:H	28:Z4:877:ILE:CB	1.91	0.83
3:A6:1408:GLU:C	26:X4:686:ASP:CB	2.50	0.83
3:A6:1410:ALA:N	26:X4:686:ASP:H	1.75	0.83
11:I1:984:GLU:CD	15:M1:615:PRO:HA	2.03	0.83
11:I1:1611:PHE:CE2	11:I2:1669:ARG:NH1	2.46	0.83
11:I2:833:PHE:HZ	17:O3:242:ARG:CA	1.88	0.83
11:I2:1029:LEU:H	20:R3:171:ALA:N	1.68	0.83
11:I2:1051:LYS:HB2	17:O3:289:ASP:H	1.44	0.83
11:I3:1270:LYS:CA	26:X1:529:TRP:N	2.41	0.83
11:I3:1370:VAL:HG22	12:J3:259:THR:HG21	1.61	0.83
23:U1:394:ILE:CG2	31:c2:475:ALA:HB1	2.04	0.83
23:U2:405:GLU:HB2	31:c4:544:VAL:HG21	1.57	0.83
26:X2:311:LEU:HA	34:i:400:LYS:C	2.04	0.83
28:Z1:535:ILE:HG12	30:b1:182:PRO:HG3	1.58	0.83
28:Z1:561:GLN:HE22	30:b1:237:LEU:CD1	1.90	0.83
28:Z2:555:LYS:CB	30:b2:212:PHE:HA	2.09	0.83
28:Z4:534:ASP:HB2	30:b4:183:LEU:H	0.71	0.83
2:A2:1333:ARG:NH2	2:A2:1348:GLU:OE2	2.12	0.83
1:A3:1123:GLU:CD	3:A6:599:ARG:CD	2.50	0.83
1:A3:1165:ASP:OD1	3:A6:648:TYR:CD2	2.32	0.83
1:A3:1227:PRO:HB2	3:A6:552:PHE:CZ	2.13	0.83
1:A3:1238:ILE:HA	3:A6:586:CYS:SG	2.18	0.83
1:A3:1261:TYR:CG	3:A6:621:GLN:CG	0.78	0.83
1:A3:1270:SER:OG	3:A6:553:ASP:CG	2.21	0.83
1:A3:1325:MET:SD	3:A6:125:VAL:O	2.36	0.83
2:A4:710:LEU:HD23	3:A6:479:VAL:CA	2.08	0.83
2:A4:710:LEU:H	3:A6:480:VAL:HG22	1.40	0.83
2:A4:754:HIS:CE1	3:A6:685:ARG:HH22	1.97	0.83
3:A6:1391:ARG:HB2	28:Z4:908:LEU:C	2.04	0.83
11:I1:951:LYS:C	16:N1:400:LEU:O	2.22	0.83
11:I1:954:GLU:HB2	16:N1:403:VAL:N	1.90	0.83
11:I2:890:TYR:HD1	17:O3:238:ALA:O	1.62	0.83
11:I2:951:LYS:CG	16:N3:404:GLU:HG3	2.09	0.83
11:I2:978:LYS:HZ2	20:R3:155:GLU:CA	1.90	0.83
11:I2:1037:THR:OG1	15:M3:620:VAL:HG13	1.78	0.83
11:I3:1271:GLU:N	26:X1:529:TRP:HB2	1.94	0.83
11:I3:1276:GLN:C	26:X1:522:MET:HB2	2.02	0.83
11:I4:1370:VAL:HG22	12:J4:259:THR:HG21	1.61	0.83
18:P1:277:PRO:CB	18:P4:323:GLN:N	2.42	0.83
21:S1:671:ALA:N	21:S2:1146:ALA:CA	2.28	0.83
21:S1:680:PRO:CA	21:S2:1127:GLN:NE2	2.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:308:ASN:HD22	34:i:315:LEU:HG	1.33	0.83
26:X2:365:ILE:HG22	34:i:424:LEU:HD11	1.61	0.83
28:Z2:551:THR:CG2	30:b2:233:TRP:HZ3	1.52	0.83
1:A1:1333:ARG:C	6:D1:637:LYS:HD3	2.02	0.83
1:A1:1401:VAL:N	2:A2:884:ARG:HH12	1.77	0.83
2:A2:225:THR:N	6:D1:709:ARG:CZ	2.41	0.83
2:A2:864:ARG:NH2	6:D1:610:ASN:HD21	1.76	0.83
2:A2:908:LEU:C	6:D1:552:TYR:CE1	2.56	0.83
2:A2:1135:ARG:CD	3:A5:147:LEU:HD23	2.09	0.83
1:A3:1184:ASP:H	3:A6:642:ARG:CZ	1.87	0.83
1:A3:1186:TRP:CA	3:A6:641:ALA:HB3	2.09	0.83
1:A3:1186:TRP:HE3	3:A6:641:ALA:HB2	1.34	0.83
1:A3:1189:LEU:HD13	3:A6:614:ALA:CA	2.08	0.83
1:A3:1233:GLN:CG	3:A6:578:ILE:CB	2.56	0.83
1:A3:1261:TYR:HD2	3:A6:679:TYR:OH	1.59	0.83
2:A4:543:GLY:C	3:A6:362:PHE:O	2.21	0.83
2:A4:602:ILE:HG13	3:A6:506:SER:OG	1.78	0.83
2:A4:715:GLU:HG2	3:A6:515:THR:HA	1.59	0.83
2:A4:722:ASN:CA	3:A6:572:ARG:HH22	1.91	0.83
2:A4:768:SER:N	3:A6:475:TYR:C	2.36	0.83
2:A4:878:LEU:CA	6:D3:567:LEU:HD12	2.08	0.83
2:A4:981:PRO:HD3	6:D3:473:GLU:OE2	1.79	0.83
3:A5:1394:VAL:C	28:Z2:874:ASN:CA	2.45	0.83
3:A6:442:ARG:HD2	6:D3:692:LEU:HG	1.61	0.83
3:A6:1359:LEU:HB3	28:Z4:917:ASP:N	1.94	0.83
3:A6:1399:ARG:HH22	28:Z4:968:ARG:H	1.22	0.83
3:A6:1415:PHE:O	28:Z4:1001:LEU:CB	2.27	0.83
11:I1:833:PHE:HD2	17:O1:238:ALA:CA	1.88	0.83
11:I1:849:LEU:HD13	17:O1:247:TRP:HE3	1.34	0.83
11:I1:913:ALA:CB	15:M1:584:GLN:HG2	1.92	0.83
11:I1:927:HIS:NE2	15:M1:594:LYS:CG	2.41	0.83
11:I1:947:LEU:C	16:N1:407:ALA:HB3	2.04	0.83
11:I1:955:LYS:HB2	16:N1:400:LEU:HG	1.61	0.83
11:I1:1036:PRO:N	16:N1:441:PHE:CE2	2.47	0.83
11:I1:1662:ARG:HA	11:I2:1667:GLN:NE2	1.74	0.83
11:I2:833:PHE:CE2	17:O3:238:ALA:O	2.31	0.83
11:I2:976:ARG:NH2	20:R3:143:PHE:CD1	2.47	0.83
11:I2:978:LYS:HE2	20:R3:154:ALA:N	1.93	0.83
11:I3:1271:GLU:CA	26:X1:525:ILE:CG2	2.52	0.83
17:O3:102:LYS:HG2	18:P3:322:LYS:CE	2.08	0.83
17:O4:112:GLY:O	18:P4:325:ILE:HD13	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:523:ASP:HB3	30:b1:238:ASN:HA	1.54	0.83
28:Z1:555:LYS:CB	30:b1:212:PHE:HA	2.09	0.83
28:Z2:524:VAL:CB	30:b2:236:THR:O	2.27	0.83
28:Z2:526:ARG:N	30:b2:208:ASN:ND2	2.25	0.83
28:Z3:526:ARG:CA	30:b3:206:ASN:ND2	2.41	0.83
2:A2:826:ASN:ND2	6:D1:633:LYS:O	2.12	0.83
2:A2:876:ARG:CD	6:D1:558:LYS:CB	2.56	0.83
1:A3:1164:TYR:O	3:A6:594:LEU:HD21	1.79	0.83
1:A3:1241:ARG:HD2	3:A6:597:GLU:OE1	1.79	0.83
1:A3:1274:ASP:OD1	3:A6:558:GLU:CG	2.26	0.83
2:A4:549:ALA:O	3:A6:432:VAL:HB	1.77	0.83
2:A4:554:GLN:HE21	3:A6:370:PRO:CD	1.91	0.83
2:A4:678:LEU:N	3:A6:98:LEU:O	2.10	0.83
2:A4:820:LYS:NZ	3:A6:166:LEU:HG	1.93	0.83
2:A4:868:GLN:HA	6:D3:570:VAL:CG1	1.96	0.83
11:I2:797:LEU:CB	17:O3:245:GLU:HG2	2.07	0.83
11:I2:881:ILE:HG22	17:O3:249:ARG:NH2	1.92	0.83
11:I2:1029:LEU:CD1	16:N3:433:GLU:HG3	2.08	0.83
11:I2:1030:ARG:H	20:R3:172:ASP:C	1.87	0.83
21:S3:1058:ILE:O	21:S3:1059:ASP:HB2	1.79	0.83
23:U1:35:PRO:HA	31:c2:474:ASN:OD1	0.93	0.83
23:U1:435:PHE:CG	31:c2:477:GLU:HG2	2.13	0.83
26:X2:298:ASP:HB2	34:i:370:GLU:H	1.44	0.83
28:Z3:554:PHE:CD1	30:b3:232:PRO:HB2	2.10	0.83
28:Z3:557:CYS:CA	30:b3:210:ARG:HA	2.09	0.83
2:A2:868:GLN:H	6:D1:598:ILE:HD13	1.43	0.82
2:A2:870:HIS:CG	6:D1:566:PHE:CE1	2.67	0.82
2:A2:908:LEU:HA	6:D1:601:PHE:HB3	1.59	0.82
1:A3:1251:VAL:C	3:A6:634:ASP:HB2	2.04	0.82
1:A3:1396:GLY:O	3:A6:172:PRO:CG	2.26	0.82
2:A4:804:GLN:OE1	3:A6:319:TYR:OH	1.78	0.82
2:A4:856:PHE:CZ	3:A6:565:THR:O	2.32	0.82
2:A4:889:VAL:HG12	3:A6:171:HIS:HB2	1.58	0.82
2:A4:904:GLN:HG3	3:A6:137:HIS:NE2	1.94	0.82
2:A4:982:THR:CB	6:D3:494:LEU:C	2.52	0.82
3:A5:156:ALA:C	5:C2:741:THR:HG21	2.03	0.82
11:I1:949:CYS:N	17:O1:253:LEU:O	2.12	0.82
11:I2:944:GLU:C	17:O3:256:TYR:HA	2.02	0.82
11:I2:1037:THR:HB	20:R3:173:LEU:HD22	1.61	0.82
11:I2:1050:SER:C	17:O3:290:TYR:HB2	2.04	0.82
11:I5:1279:THR:HG23	26:X2:520:GLU:CA	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:23:LYS:HA	31:c4:487:PHE:HB3	1.61	0.82
23:U2:24:ILE:N	31:c4:487:PHE:H	1.74	0.82
23:U2:396:LEU:HD11	31:c4:550:LYS:N	1.93	0.82
23:U2:398:ILE:CG1	31:c4:535:VAL:HG12	2.09	0.82
23:U2:440:ASP:OD1	31:c4:345:MET:HE2	1.79	0.82
28:Z4:410:ASN:C	30:b4:251:ILE:HD12	1.90	0.82
1:A1:1229:VAL:CG2	2:A2:725:GLU:CG	2.55	0.82
1:A1:1332:ARG:CZ	6:D1:681:ALA:HB1	2.09	0.82
2:A2:974:PRO:C	6:D1:499:LEU:HG	2.04	0.82
2:A2:1163:TYR:OH	3:A5:136:GLU:CB	2.27	0.82
1:A3:1277:TRP:HB2	3:A6:556:PRO:HG2	1.61	0.82
1:A3:1332:ARG:HH21	6:D3:681:ALA:HB1	1.44	0.82
2:A4:788:ARG:HB3	3:A6:145:THR:CG2	2.09	0.82
2:A4:947:LYS:HE3	3:A6:235:TYR:HE2	1.00	0.82
3:A6:1365:VAL:HA	28:Z4:878:HIS:CB	2.08	0.82
11:I2:898:VAL:CB	17:O3:236:ASP:HA	2.05	0.82
11:I2:1030:ARG:HH11	20:R3:175:GLN:HG2	1.44	0.82
11:I2:1069:SER:N	16:N3:428:ASP:N	1.98	0.82
11:I2:1543:LEU:O	12:J1:300:ILE:CG2	2.26	0.82
21:S1:678:GLU:CB	21:S2:1127:GLN:HG2	2.09	0.82
21:S3:686:ALA:HB3	21:S4:1153:GLN:CA	2.09	0.82
23:U1:21:GLU:HA	31:c2:471:LEU:HG	1.62	0.82
23:U2:400:ASN:ND2	31:c4:550:LYS:HE2	1.91	0.82
23:U2:435:PHE:CE1	31:c4:461:PHE:CD1	2.67	0.82
28:Z2:534:ASP:N	30:b2:164:CYS:HB3	1.93	0.82
28:Z3:402:GLY:CA	30:b3:273:LYS:HB2	2.09	0.82
1:A1:870:HIS:HB3	6:D3:279:HIS:C	1.91	0.82
1:A3:1084:ARG:CB	6:D3:794:THR:HA	1.94	0.82
1:A3:1261:TYR:CB	3:A6:621:GLN:H	1.90	0.82
1:A3:1318:TRP:CE2	3:A6:624:ASP:CG	2.57	0.82
2:A4:682:ARG:CD	3:A6:106:ALA:HA	2.09	0.82
2:A4:691:LYS:NZ	3:A6:331:SER:CA	2.37	0.82
2:A4:868:GLN:CG	6:D3:570:VAL:CG1	2.57	0.82
3:A5:220:VAL:CA	5:C2:738:ASP:HB3	2.09	0.82
3:A6:137:HIS:N	6:D3:603:SER:CB	2.40	0.82
3:A6:441:THR:HG21	6:D3:717:LEU:CA	2.04	0.82
11:I2:924:ILE:CB	15:M3:597:LYS:N	2.42	0.82
11:I2:989:GLY:N	15:M3:614:ASP:HB3	1.93	0.82
11:I2:1048:GLU:HG2	17:O3:288:GLU:HG3	1.59	0.82
11:I3:1267:LEU:HD22	26:X1:497:ARG:NH1	1.92	0.82
11:I3:1276:GLN:HE21	26:X1:538:ILE:HG12	1.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:819:MET:CG	26:X3:501:LYS:HD3	2.10	0.82
23:U1:398:ILE:C	31:c2:553:LEU:HA	2.04	0.82
23:U2:74:PHE:CE2	31:c4:552:ARG:CZ	2.62	0.82
28:Z1:557:CYS:CA	30:b1:210:ARG:HA	2.09	0.82
28:Z2:528:ILE:CG1	30:b2:210:ARG:CZ	2.52	0.82
28:Z4:525:LEU:N	30:b4:208:ASN:OD1	2.11	0.82
1:A3:1321:MET:HE2	3:A6:126:ARG:HH12	1.45	0.82
2:A4:680:LEU:HB3	3:A6:98:LEU:HD11	1.62	0.82
2:A4:886:PHE:HZ	3:A6:176:LEU:CG	1.78	0.82
2:A4:946:LYS:HB2	4:B6:351:GLU:H	1.41	0.82
3:A5:1365:VAL:CG2	28:Z2:838:GLN:C	2.52	0.82
3:A6:1393:THR:N	28:Z4:913:ILE:N	2.27	0.82
8:F1:1265:GLN:O	17:O2:265:ASN:CB	2.27	0.82
11:I1:976:ARG:N	20:R1:149:ARG:NH1	2.26	0.82
11:I1:1663:LYS:HZ1	11:I2:1659:VAL:C	1.86	0.82
11:I2:1038:ILE:HD11	15:M3:621:ARG:CG	2.03	0.82
11:I2:1069:SER:HB2	16:N3:427:VAL:N	1.94	0.82
11:I2:1101:LEU:O	16:N3:432:TYR:OH	1.93	0.82
21:S2:1058:ILE:O	21:S2:1059:ASP:HB2	1.79	0.82
23:U2:19:LEU:O	31:c4:483:ASP:CB	2.26	0.82
23:U2:75:TRP:CD2	31:c4:475:ALA:CB	2.62	0.82
23:U2:432:TYR:CD2	31:c4:464:LEU:HD13	2.14	0.82
26:X2:274:LEU:O	34:i:13:LEU:HD12	1.78	0.82
26:X4:159:ILE:HG12	26:X4:175:LEU:HB3	1.59	0.82
28:Z3:555:LYS:CB	30:b3:212:PHE:HA	2.09	0.82
33:h:126:MET:CE	33:h:271:LEU:HD13	2.09	0.82
2:A2:869:ALA:O	6:D1:548:LEU:CD2	2.26	0.82
2:A2:909:LYS:N	6:D1:552:TYR:CE1	2.44	0.82
2:A2:1135:ARG:HH11	3:A5:147:LEU:CD2	1.91	0.82
2:A4:87:GLN:NE2	3:A6:390:SER:O	2.08	0.82
2:A4:550:VAL:HG22	3:A6:367:ASP:HB2	0.85	0.82
2:A4:721:ARG:N	3:A6:493:ALA:O	2.09	0.82
2:A4:724:LEU:HD23	3:A6:496:THR:C	2.05	0.82
2:A4:949:PHE:HB3	4:B6:348:PRO:HD2	1.59	0.82
2:A4:978:ASP:O	6:D3:475:ALA:CA	2.26	0.82
2:A4:1054:SER:CB	6:D4:762:ARG:HE	1.90	0.82
3:A5:232:LEU:HD21	5:C2:739:MET:CA	2.10	0.82
3:A6:136:GLU:CD	6:D3:603:SER:N	2.33	0.82
3:A6:520:GLU:HB2	6:D3:635:ALA:HB1	0.84	0.82
9:G1:263:MET:HB3	17:O2:260:LEU:CD2	2.08	0.82
11:I1:833:PHE:HD2	17:O1:237:PRO:C	1.88	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB1	1.60	0.82
11:I1:1067:PHE:CD2	16:N1:432:TYR:N	2.40	0.82
11:I2:896:PRO:HB3	17:O3:233:THR:HA	1.59	0.82
11:I2:914:ASN:C	15:M3:588:MET:N	2.28	0.82
11:I2:1051:LYS:HE3	17:O3:289:ASP:H	1.44	0.82
11:I4:1277:LEU:HG	26:X3:517:ASP:HB3	1.59	0.82
23:U1:395:CYS:C	31:c2:552:ARG:HH12	1.87	0.82
23:U1:431:ILE:HD11	31:c2:469:SER:H	1.43	0.82
23:U1:434:THR:HG22	31:c2:479:ILE:HG22	0.83	0.82
23:U2:34:ASP:CB	31:c4:558:GLU:OE1	2.27	0.82
23:U2:432:TYR:HD1	31:c4:464:LEU:CB	1.90	0.82
28:Z1:524:VAL:CB	30:b1:236:THR:O	2.27	0.82
28:Z2:400:LYS:O	30:b2:252:ALA:HA	1.80	0.82
28:Z2:438:GLU:CG	30:b2:333:HIS:CE1	2.63	0.82
28:Z2:557:CYS:CA	30:b2:210:ARG:HA	2.09	0.82
28:Z3:406:ARG:CG	30:b3:252:ALA:CB	2.57	0.82
28:Z3:555:LYS:C	30:b3:212:PHE:CB	2.51	0.82
28:Z4:526:ARG:CA	30:b4:206:ASN:ND2	2.41	0.82
1:A1:874:VAL:HG22	6:D3:272:VAL:HG11	1.60	0.82
2:A2:1167:CYS:HB3	4:B5:342:ARG:NE	1.95	0.82
1:A3:1228:TYR:HD1	3:A6:551:GLN:CG	1.92	0.82
2:A4:643:ALA:N	3:A6:501:VAL:CG1	2.36	0.82
2:A4:674:ASP:OD1	3:A6:99:ASP:HB2	1.79	0.82
2:A4:685:ARG:HG3	3:A6:404:LEU:HD23	1.61	0.82
2:A4:754:HIS:H	3:A6:540:GLN:HE21	1.27	0.82
2:A4:934:TRP:HZ2	4:B6:350:GLU:CB	1.88	0.82
3:A5:187:THR:CA	5:C2:746:PRO:HD2	2.08	0.82
11:I1:877:ILE:HB	17:O1:252:VAL:C	2.05	0.82
11:I1:883:ALA:CB	17:O1:243:LEU:HA	2.01	0.82
11:I1:1036:PRO:CD	15:M1:623:LEU:O	2.24	0.82
11:I1:1108:PRO:HG3	16:N1:443:GLU:HB3	1.10	0.82
11:I2:958:THR:N	16:N3:399:HIS:CD2	2.46	0.82
11:I2:977:ASN:HB2	20:R3:150:ASN:HB2	1.61	0.82
11:I4:1277:LEU:CG	26:X3:517:ASP:HB3	1.91	0.82
11:I4:1277:LEU:CD2	26:X3:517:ASP:CB	2.58	0.82
21:S1:660:LEU:N	21:S2:1102:VAL:HG22	1.92	0.82
21:S4:1058:ILE:O	21:S4:1059:ASP:HB2	1.79	0.82
22:T1:720:ILE:HB	31:c5:31:TYR:HH	1.44	0.82
22:T1:825:ASP:HB3	31:c5:23:ARG:NE	1.95	0.82
23:U2:75:TRP:HZ3	31:c4:552:ARG:HG2	1.43	0.82
23:U2:430:PRO:CA	31:c4:462:HIS:HA	2.04	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:309:LEU:O	34:i:398:ASP:OD2	1.96	0.82
28:Z1:410:ASN:HD21	30:b1:252:ALA:HB2	0.91	0.82
28:Z3:557:CYS:HB3	30:b3:210:ARG:HH11	1.01	0.82
28:Z4:406:ARG:CG	30:b4:252:ALA:CB	2.58	0.82
28:Z4:524:VAL:CB	30:b4:236:THR:O	2.27	0.82
1:A1:1225:PRO:O	2:A2:728:LYS:HG2	1.80	0.82
2:A2:1149:THR:CB	3:A5:172:PRO:HD2	2.06	0.82
1:A3:835:THR:HG22	6:D1:302:PRO:HG2	1.61	0.82
1:A3:1236:GLN:HE21	3:A6:573:ARG:NE	1.77	0.82
1:A3:1244:LEU:HB3	3:A6:633:MET:HE2	1.62	0.82
1:A3:1250:PRO:HG3	3:A6:635:ARG:HB3	1.60	0.82
2:A4:713:ILE:HG23	3:A6:403:ARG:NE	1.94	0.82
2:A4:869:ALA:CB	6:D3:583:ILE:HD13	2.06	0.82
3:A5:1093:THR:OG1	11:I5:37:GLU:HG3	1.78	0.82
3:A5:1094:ILE:HG21	11:I5:4:LEU:CB	1.84	0.82
8:F1:1266:MET:CA	17:O2:265:ASN:ND2	2.43	0.82
11:I1:990:GLU:CB	15:M1:611:LYS:HE3	2.08	0.82
11:I2:966:TRP:HZ3	20:R3:167:GLN:CB	1.88	0.82
11:I2:966:TRP:NE1	20:R3:154:ALA:O	2.01	0.82
11:I2:977:ASN:CG	15:M3:621:ARG:HB3	2.03	0.82
11:I2:990:GLU:O	17:O3:271:GLU:CG	2.27	0.82
23:U1:198:GLU:OE1	31:c1:637:ASP:OD2	1.97	0.82
23:U1:431:ILE:CG1	31:c2:469:SER:CB	2.46	0.82
23:U1:438:GLU:HG3	31:c2:541:ARG:CZ	2.09	0.82
23:U2:15:PHE:HE1	31:c4:470:ARG:HD2	1.45	0.82
26:X2:198:GLU:OE2	34:i:335:HIS:O	1.75	0.82
28:Z1:400:LYS:O	30:b1:252:ALA:HA	1.80	0.82
28:Z2:525:LEU:N	30:b2:208:ASN:OD1	2.11	0.82
28:Z3:400:LYS:O	30:b3:252:ALA:HA	1.80	0.82
28:Z3:524:VAL:CB	30:b3:236:THR:O	2.27	0.82
28:Z4:438:GLU:CG	30:b4:333:HIS:CE1	2.63	0.82
28:Z4:555:LYS:CB	30:b4:212:PHE:HA	2.09	0.82
2:A2:1148:ARG:NH2	3:A5:169:TYR:HA	1.94	0.82
1:A3:1186:TRP:N	3:A6:639:ASN:C	2.37	0.82
1:A3:1227:PRO:HG2	3:A6:682:ARG:HD3	1.60	0.82
1:A3:1255:LEU:H	3:A6:634:ASP:HB3	1.17	0.82
2:A4:803:GLU:O	3:A6:382:SER:HA	0.94	0.82
2:A4:823:VAL:HG12	3:A6:167:TRP:CZ2	2.15	0.82
2:A4:946:LYS:HD2	4:B6:350:GLU:OE2	1.80	0.82
2:A4:1098:ARG:NH2	6:D4:709:ARG:NH2	2.20	0.82
3:A6:842:ARG:HD2	8:F2:776:HIS:CE1	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1049:GLN:HE22	17:O4:237:PRO:HB3	1.06	0.82
9:G1:255:LEU:HD13	17:O2:258:GLU:HG2	1.60	0.82
11:I1:881:ILE:C	17:O1:246:LEU:HA	2.04	0.82
11:I1:882:LYS:N	17:O1:246:LEU:HA	1.95	0.82
11:I1:957:SER:HA	20:R1:168:LEU:HG	1.62	0.82
11:I1:1014:ASN:HA	16:N1:411:GLN:C	2.02	0.82
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD12	1.58	0.82
11:I1:1043:LEU:HA	16:N1:430:ARG:CB	2.07	0.82
11:I1:1049:LEU:HB3	17:O1:291:ASP:HB2	1.61	0.82
11:I1:1052:LEU:CD1	17:O1:287:LEU:HD11	2.09	0.82
11:I1:1370:VAL:HG22	12:J1:259:THR:HG21	1.61	0.82
11:I2:943:ALA:CA	17:O3:260:LEU:HD13	2.00	0.82
11:I2:963:LEU:O	20:R3:153:GLN:NE2	2.13	0.82
11:I2:1052:LEU:CD1	16:N3:438:LEU:HD21	2.10	0.82
11:I2:1055:GLU:O	17:O3:278:GLU:CB	2.26	0.82
11:I2:1109:LEU:CD2	16:N3:438:LEU:CD2	2.58	0.82
11:I2:1113:LEU:HD22	17:O3:282:LYS:CE	2.07	0.82
11:I5:1276:GLN:O	26:X2:518:ASP:CA	2.27	0.82
22:T1:741:ASP:CB	31:c5:24:GLN:HE21	1.91	0.82
23:U1:401:PRO:C	31:c2:549:ALA:C	2.31	0.82
23:U2:398:ILE:CG1	31:c4:535:VAL:CG1	2.57	0.82
23:U2:430:PRO:O	31:c4:461:PHE:CB	2.28	0.82
28:Z1:561:GLN:HG2	30:b1:235:LEU:CD2	2.07	0.82
28:Z4:400:LYS:O	30:b4:252:ALA:HA	1.80	0.82
28:Z4:407:GLY:C	30:b4:251:ILE:HD11	2.04	0.82
28:Z4:523:ASP:OD2	30:b4:239:THR:HG23	1.80	0.82
1:A1:834:GLU:HB3	6:D3:302:PRO:CG	2.05	0.82
1:A1:1226:LEU:H	2:A2:725:GLU:HG3	1.42	0.82
2:A2:825:ARG:NE	6:D1:633:LYS:HZ2	1.77	0.82
2:A2:876:ARG:HD2	6:D1:558:LYS:HB3	1.59	0.82
1:A3:1169:LEU:O	3:A6:590:SER:C	2.23	0.82
1:A3:1188:ASN:HA	3:A6:723:PHE:CZ	2.14	0.82
2:A4:614:ALA:HB2	3:A6:507:ALA:CB	2.10	0.82
2:A4:676:LEU:HD12	3:A6:95:TYR:CE2	2.14	0.82
2:A4:862:LEU:N	3:A6:132:ASP:CB	2.38	0.82
2:A4:898:LEU:O	4:B6:342:ARG:N	2.13	0.82
2:A4:1151:THR:N	5:C4:733:LEU:HA	1.95	0.82
3:A5:232:LEU:HG	5:C2:739:MET:H	1.43	0.82
3:A5:995:VAL:O	11:I5:58:ALA:HA	1.78	0.82
3:A5:1395:LYS:CB	28:Z2:870:ILE:HA	2.08	0.82
6:D5:594:LYS:HZ2	24:V2:255:GLN:HE22	1.22	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:800:PRO:HG2	22:T3:765:LYS:HG3	1.57	0.82
6:D7:176:SER:HB3	11:I3:95:LYS:NZ	1.93	0.82
11:I1:1043:LEU:HD23	16:N1:430:ARG:HB2	1.62	0.82
11:I1:1048:GLU:CD	20:R1:143:PHE:HB2	1.98	0.82
11:I2:890:TYR:CD1	17:O3:238:ALA:O	2.31	0.82
11:I2:894:VAL:HB	17:O3:239:GLN:H	0.66	0.82
11:I2:950:LEU:CD2	16:N3:406:HIS:CD2	2.63	0.82
11:I2:964:SER:O	20:R3:153:GLN:NE2	2.12	0.82
21:S1:597:ILE:CB	21:S2:1119:LEU:CA	2.57	0.82
21:S1:671:ALA:CB	21:S2:1146:ALA:N	2.43	0.82
23:U1:19:LEU:HB2	31:c2:470:ARG:HB2	0.82	0.82
23:U1:431:ILE:HG21	31:c2:470:ARG:H	1.43	0.82
23:U2:75:TRP:CE3	31:c4:476:PRO:HD3	2.14	0.82
23:U2:439:SER:HB3	31:c4:428:ARG:CD	2.08	0.82
26:X2:318:GLY:O	34:i:475:ILE:CG2	2.27	0.82
28:Z1:524:VAL:H	30:b1:238:ASN:HB2	0.71	0.82
28:Z2:531:LYS:HD3	30:b2:183:LEU:CB	1.97	0.82
28:Z3:523:ASP:OD2	30:b3:239:THR:HG23	1.80	0.82
2:A2:776:MET:CG	6:D1:678:GLY:O	2.26	0.82
2:A2:1157:TYR:HB3	3:A5:133:LYS:HB2	1.62	0.82
1:A3:1226:LEU:CD2	3:A6:550:VAL:N	1.93	0.82
1:A3:1235:ILE:HD11	3:A6:617:VAL:CG2	2.09	0.82
1:A3:1261:TYR:CG	3:A6:621:GLN:HG2	0.65	0.82
1:A3:1274:ASP:CA	3:A6:556:PRO:O	2.28	0.82
1:A3:1332:ARG:CD	6:D3:636:ASP:CG	2.52	0.82
2:A4:682:ARG:HH21	3:A6:105:GLY:CA	1.64	0.82
2:A4:736:PRO:O	3:A6:89:LEU:HD23	1.79	0.82
2:A4:780:GLU:HB3	3:A6:564:ASN:HD21	1.37	0.82
2:A4:978:ASP:C	6:D3:476:VAL:HG23	2.05	0.82
3:A6:136:GLU:OE2	6:D3:602:THR:C	2.23	0.82
3:A6:1399:ARG:HH21	28:Z4:968:ARG:CB	1.93	0.82
11:I1:880:MET:HG3	17:O1:247:TRP:CA	2.10	0.82
11:I1:885:GLU:O	16:N1:397:GLU:CD	2.23	0.82
11:I1:1609:GLY:HA3	12:J2:295:TYR:CD1	2.15	0.82
11:I2:890:TYR:CB	17:O3:242:ARG:CB	2.58	0.82
11:I2:936:LYS:HE3	15:M3:612:PRO:CG	2.10	0.82
11:I2:1015:TYR:CB	16:N3:412:ASN:CG	2.52	0.82
11:I2:1043:LEU:HA	16:N3:430:ARG:CD	2.10	0.82
11:I2:1106:LYS:O	16:N3:440:GLU:HA	1.05	0.82
11:I2:1109:LEU:HA	17:O3:290:TYR:CZ	2.14	0.82
11:I3:1271:GLU:O	26:X1:525:ILE:CG2	2.18	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:21:GLU:CB	31:c2:472:GLU:CA	2.09	0.82
23:U1:201:LYS:HD3	31:c1:625:PRO:HD2	1.62	0.82
23:U2:396:LEU:CA	31:c4:554:LEU:HB3	2.09	0.82
23:U2:431:ILE:N	31:c4:464:LEU:HB3	1.95	0.82
23:U3:278:GLN:HB3	25:W4:192:GLN:OE1	1.80	0.82
28:Z1:407:GLY:C	30:b1:251:ILE:HD11	2.04	0.82
28:Z1:561:GLN:CB	30:b1:236:THR:C	2.53	0.82
28:Z2:537:THR:OG1	30:b2:163:ASP:O	1.98	0.82
2:A2:908:LEU:HD23	6:D1:601:PHE:CB	2.09	0.81
2:A2:1151:THR:HG23	5:C2:734:VAL:CA	2.09	0.81
1:A3:1220:PRO:CB	2:A4:732:GLN:OE1	2.27	0.81
1:A3:1281:LEU:HD13	3:A6:577:ASP:CB	2.09	0.81
1:A3:1282:PHE:CG	3:A6:625:LEU:O	2.33	0.81
1:A3:1311:ARG:CD	3:A6:712:THR:HA	2.09	0.81
2:A4:90:GLN:HB2	3:A6:407:SER:OG	1.80	0.81
2:A4:643:ALA:HA	3:A6:501:VAL:CG1	2.10	0.81
2:A4:701:ILE:HG13	3:A6:466:ALA:N	1.71	0.81
2:A4:983:LEU:CG	6:D3:528:PHE:HE1	1.60	0.81
3:A6:1151:THR:CA	5:C6:733:LEU:CD1	2.57	0.81
8:F1:1091:SER:CB	17:O2:241:SER:C	2.53	0.81
11:I1:898:VAL:CG2	17:O1:235:ASN:O	2.28	0.81
11:I1:976:ARG:HB2	20:R1:149:ARG:HB3	1.56	0.81
11:I1:1055:GLU:HG3	17:O1:277:GLU:C	2.03	0.81
11:I1:1067:PHE:CD1	16:N1:433:GLU:N	2.48	0.81
11:I1:1070:LEU:CA	16:N1:429:GLU:HG2	2.08	0.81
11:I2:885:GLU:N	16:N3:397:GLU:HG2	1.93	0.81
11:I2:915:ALA:O	15:M3:585:LEU:CB	2.24	0.81
11:I2:948:ALA:C	17:O3:253:LEU:O	2.23	0.81
11:I2:1037:THR:HG21	20:R3:173:LEU:CD2	2.09	0.81
11:I5:1370:VAL:HG22	12:J5:259:THR:HG21	1.61	0.81
21:S1:1058:ILE:O	21:S1:1059:ASP:HB2	1.79	0.81
23:U2:434:THR:N	31:c4:461:PHE:N	2.22	0.81
26:X2:156:GLU:OE2	26:X2:214:ARG:NH1	2.13	0.81
26:X2:187:THR:CG2	34:i:444:GLU:HB2	2.01	0.81
26:X2:361:LEU:HG	34:i:423:LYS:HE2	1.61	0.81
28:Z1:406:ARG:CG	30:b1:252:ALA:CB	2.58	0.81
1:A1:1197:ALA:HB1	2:A2:728:LYS:HZ2	1.42	0.81
2:A2:776:MET:SD	6:D1:678:GLY:O	2.37	0.81
2:A2:865:ALA:O	6:D1:608:ILE:CD1	2.29	0.81
2:A2:1138:GLU:CG	3:A5:147:LEU:HD13	2.05	0.81
1:A3:1236:GLN:CA	3:A6:578:ILE:O	2.26	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1236:GLN:NE2	3:A6:573:ARG:CZ	2.44	0.81
2:A4:544:PHE:CD1	3:A6:363:ALA:HB1	2.12	0.81
2:A4:546:ASN:ND2	3:A6:365:MET:HE3	1.94	0.81
2:A4:713:ILE:CD1	3:A6:462:LEU:CD1	2.57	0.81
2:A4:781:ARG:HH22	6:D3:633:LYS:HD2	1.42	0.81
2:A4:896:ALA:O	3:A6:178:GLY:HA2	1.80	0.81
3:A6:1392:ARG:C	28:Z4:913:ILE:CB	2.23	0.81
8:F1:1138:TRP:CD2	17:O2:244:GLU:CD	2.58	0.81
8:F1:1202:TYR:HD1	17:O2:252:VAL:HG21	1.44	0.81
8:F2:1089:PRO:O	17:O4:245:GLU:CA	2.29	0.81
11:I1:846:ILE:HD12	15:M1:594:LYS:HE3	0.86	0.81
11:I1:915:ALA:CB	15:M1:582:THR:O	2.22	0.81
11:I1:950:LEU:HB3	16:N1:407:ALA:H	1.33	0.81
11:I2:882:LYS:HG3	17:O3:249:ARG:HA	1.60	0.81
11:I2:1039:ALA:HB3	20:R3:170:LEU:N	1.95	0.81
11:I5:1279:THR:CG2	26:X2:520:GLU:CA	2.57	0.81
21:S1:680:PRO:O	21:S2:1127:GLN:OE1	1.96	0.81
23:U2:389:VAL:CG1	31:c4:548:VAL:HG11	2.10	0.81
26:X2:366:PRO:O	34:i:366:PHE:CD2	2.33	0.81
26:X2:366:PRO:CD	34:i:421:ILE:HD13	2.10	0.81
28:Z1:537:THR:OG1	30:b1:163:ASP:O	1.98	0.81
28:Z3:531:LYS:HD3	30:b3:183:LEU:CB	1.97	0.81
28:Z3:561:GLN:CB	30:b3:236:THR:C	2.53	0.81
1:A1:1222:ALA:CA	2:A2:615:LEU:CD1	2.53	0.81
2:A2:779:ASP:HB3	6:D1:679:ILE:O	1.79	0.81
2:A2:989:MSE:SE	6:D1:241:ALA:N	2.63	0.81
2:A2:1150:LEU:HG	5:C2:731:LYS:HA	1.62	0.81
1:A3:1189:LEU:CD2	3:A6:579:PHE:CZ	2.62	0.81
1:A3:1201:ARG:HG3	3:A6:549:ALA:H	1.41	0.81
1:A3:1226:LEU:HD23	3:A6:546:ASN:O	1.78	0.81
1:A3:1248:ILE:H	3:A6:587:VAL:CG1	1.94	0.81
2:A4:78:VAL:C	3:A6:385:PRO:CD	2.51	0.81
2:A4:88:THR:N	3:A6:392:LEU:HA	1.96	0.81
2:A4:553:ASP:OD2	3:A6:432:VAL:CG1	2.28	0.81
2:A4:556:PRO:CG	3:A6:454:GLN:HB2	2.10	0.81
2:A4:692:VAL:HG11	3:A6:467:LEU:CG	2.10	0.81
2:A4:780:GLU:CA	3:A6:524:ARG:CB	2.56	0.81
2:A4:821:ALA:CB	3:A6:146:LYS:C	2.37	0.81
2:A4:897:ASN:HB2	3:A6:166:LEU:O	1.78	0.81
2:A4:925:LYS:HZ3	3:A6:233:THR:CA	1.93	0.81
2:A4:945:ARG:C	4:B6:351:GLU:OE1	2.20	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:N	6:D3:499:LEU:CG	2.43	0.81
2:A4:1151:THR:HG23	5:C4:734:VAL:CA	2.10	0.81
3:A6:442:ARG:NH1	6:D3:695:LEU:CD1	2.44	0.81
3:A6:1395:LYS:N	28:Z4:913:ILE:HA	1.96	0.81
3:A6:1409:MSE:CA	26:X4:686:ASP:CB	2.57	0.81
6:D5:377:ARG:HA	31:c1:378:ASN:ND2	1.96	0.81
8:F1:1095:TYR:N	17:O2:237:PRO:HB3	1.95	0.81
8:F1:1136:GLN:C	17:O2:248:SER:HG	1.87	0.81
8:F1:1203:TRP:HH2	17:O2:248:SER:HA	0.99	0.81
11:I1:843:GLU:OE1	15:M1:590:LYS:CD	2.27	0.81
11:I1:872:SER:O	17:O1:251:ILE:CG2	2.28	0.81
11:I1:912:VAL:H	15:M1:584:GLN:NE2	1.76	0.81
11:I1:1029:LEU:CD2	20:R1:174:ARG:HG3	2.07	0.81
11:I1:1035:GLN:CA	16:N1:441:PHE:CZ	2.60	0.81
11:I1:1041:GLN:H	15:M1:620:VAL:HG22	1.44	0.81
11:I1:1103:LEU:HD11	20:R1:175:GLN:HG2	1.51	0.81
11:I1:1106:LYS:CA	16:N1:440:GLU:OE2	2.28	0.81
11:I1:1114:VAL:HG22	16:N1:435:ALA:HB3	1.62	0.81
11:I1:1602:PHE:HD1	11:I2:1666:THR:HG21	1.42	0.81
11:I1:1672:VAL:CG2	11:I2:1611:PHE:HB3	2.08	0.81
11:I1:1673:VAL:N	11:I2:1611:PHE:CA	2.42	0.81
11:I2:850:ILE:HG23	15:M3:598:GLU:CD	1.94	0.81
11:I2:873:ILE:HG23	17:O3:254:ARG:HG2	1.61	0.81
11:I2:889:THR:HB	17:O3:242:ARG:HD3	0.85	0.81
11:I2:921:GLU:H	15:M3:592:LEU:HG	1.00	0.81
11:I2:946:THR:H	17:O3:260:LEU:H	1.19	0.81
11:I2:964:SER:O	20:R3:153:GLN:CD	2.22	0.81
11:I2:980:ILE:HA	15:M3:618:GLN:CA	2.11	0.81
11:I2:1033:PRO:CA	20:R3:177:LEU:HG	2.08	0.81
17:O3:162:LYS:CA	18:P3:315:GLU:OE1	2.28	0.81
22:T1:824:VAL:CG1	31:c5:54:ASN:O	2.27	0.81
23:U2:16:SER:C	31:c4:468:THR:OG1	2.21	0.81
23:U2:434:THR:HG23	31:c4:460:LEU:HD13	1.62	0.81
26:X2:280:VAL:CB	34:i:14:TRP:HE1	1.93	0.81
26:X2:313:LEU:C	34:i:399:PRO:HG2	2.04	0.81
26:X3:156:GLU:OE2	26:X3:214:ARG:NH1	2.13	0.81
28:Z2:406:ARG:CG	30:b2:252:ALA:CB	2.58	0.81
28:Z2:447:GLU:OE1	30:b2:250:GLY:HA2	1.81	0.81
28:Z2:524:VAL:CG1	30:b2:236:THR:HG21	2.07	0.81
28:Z2:531:LYS:HD2	30:b2:182:PRO:C	2.05	0.81
28:Z4:557:CYS:CA	30:b4:210:ARG:HA	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1332:ARG:O	6:D1:637:LYS:CG	2.29	0.81
2:A2:982:THR:OG1	6:D1:498:GLU:N	2.04	0.81
2:A2:1142:PHE:CD1	3:A5:566:GLY:HA2	2.15	0.81
2:A2:1151:THR:N	5:C2:733:LEU:HA	1.95	0.81
1:A3:1226:LEU:CB	3:A6:551:GLN:HG3	2.10	0.81
1:A3:1238:ILE:HG21	3:A6:640:LEU:HD13	1.63	0.81
1:A3:1248:ILE:HD13	3:A6:587:VAL:HA	1.60	0.81
2:A4:679:TYR:CD1	3:A6:510:TYR:N	2.22	0.81
2:A4:683:LEU:CB	3:A6:403:ARG:CZ	2.57	0.81
2:A4:713:ILE:CB	3:A6:462:LEU:HD13	2.06	0.81
2:A4:792:VAL:HB	3:A6:187:THR:OG1	1.80	0.81
2:A4:973:GLU:HB3	6:D3:498:GLU:HB2	1.62	0.81
3:A5:1395:LYS:HE3	28:Z2:868:GLN:O	1.78	0.81
3:A6:1403:MSE:SE	28:Z4:964:LEU:CA	2.78	0.81
11:I1:1014:ASN:N	16:N1:411:GLN:O	2.13	0.81
11:I1:1610:VAL:HG22	11:I2:1673:VAL:CG1	2.02	0.81
11:I2:947:LEU:HD21	16:N3:411:GLN:HG3	1.62	0.81
11:I2:948:ALA:O	17:O3:253:LEU:HB3	1.79	0.81
11:I2:990:GLU:C	15:M3:608:LYS:NZ	2.38	0.81
11:I2:1020:ALA:CB	16:N3:407:ALA:CA	2.47	0.81
11:I2:1035:GLN:HG3	15:M3:623:LEU:C	2.04	0.81
11:I2:1043:LEU:HA	16:N3:430:ARG:HD2	1.62	0.81
11:I2:1045:PHE:CZ	16:N3:434:LEU:CB	2.43	0.81
18:P1:280:THR:N	18:P4:322:LYS:HD3	1.95	0.81
22:T1:721:ALA:CB	31:c5:34:LYS:NZ	2.42	0.81
23:U2:24:ILE:CB	31:c4:482:LEU:O	2.28	0.81
23:U2:360:HIS:CB	31:c4:544:VAL:HG13	2.09	0.81
24:V2:682:ALA:HB3	31:c2:50:CYS:O	1.81	0.81
26:X1:156:GLU:OE2	26:X1:214:ARG:NH1	2.13	0.81
26:X2:301:SER:C	34:i:335:HIS:HD2	1.78	0.81
28:Z1:438:GLU:CG	30:b1:333:HIS:CE1	2.63	0.81
28:Z1:539:GLU:HB3	30:b1:165:THR:N	1.78	0.81
2:A2:825:ARG:HH12	6:D1:679:ILE:CD1	1.92	0.81
1:A3:1192:GLN:CA	3:A6:645:PHE:CD2	2.64	0.81
2:A4:533:ALA:CB	3:A6:370:PRO:CG	2.53	0.81
2:A4:680:LEU:C	3:A6:405:PHE:CZ	2.52	0.81
2:A4:702:SER:C	3:A6:399:ASP:CA	2.53	0.81
2:A4:779:ASP:OD2	3:A6:519:LEU:HB2	1.80	0.81
2:A4:818:LEU:C	3:A6:147:LEU:CB	2.52	0.81
2:A4:861:GLN:NE2	6:D3:607:PRO:HA	1.96	0.81
3:A5:1027:HIS:HE1	11:I5:65:LYS:CB	1.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1365:VAL:CG2	28:Z2:841:ALA:HB3	2.09	0.81
6:D3:743:HIS:HD2	11:I2:1528:ARG:HD2	1.43	0.81
11:I1:915:ALA:HB3	15:M1:582:THR:C	2.05	0.81
11:I1:980:ILE:HB	15:M1:618:GLN:CA	2.09	0.81
11:I1:1023:ASP:CB	16:N1:405:ALA:CB	2.58	0.81
11:I2:1058:GLY:O	17:O3:277:GLU:HA	1.81	0.81
11:I3:1271:GLU:OE2	26:X1:504:ILE:HD12	1.79	0.81
17:O3:147:ALA:CB	18:P3:328:PRO:HG2	2.08	0.81
23:U2:23:LYS:HB2	31:c4:484:LEU:CD2	1.64	0.81
23:U3:278:GLN:HE21	25:W4:189:SER:N	1.73	0.81
26:X2:290:GLU:CB	34:i:492:TRP:CD2	2.62	0.81
26:X2:296:PRO:CB	34:i:369:VAL:HG21	2.11	0.81
28:Z3:411:LEU:CA	30:b3:251:ILE:HD13	2.11	0.81
28:Z3:438:GLU:CG	30:b3:333:HIS:CE1	2.63	0.81
28:Z3:523:ASP:HB3	30:b3:238:ASN:HA	1.54	0.81
2:A2:780:GLU:H	6:D1:678:GLY:CA	1.93	0.81
2:A2:974:PRO:CD	6:D1:205:LEU:CG	2.54	0.81
2:A2:982:THR:CG2	6:D1:494:LEU:HA	2.07	0.81
1:A3:1236:GLN:N	3:A6:581:LYS:H	1.78	0.81
1:A3:1284:ASN:C	3:A6:581:LYS:HZ1	1.83	0.81
1:A3:1311:ARG:HD2	3:A6:715:GLU:OE1	1.80	0.81
2:A4:682:ARG:HH22	3:A6:104:PRO:C	1.85	0.81
2:A4:685:ARG:NH2	3:A6:362:PHE:CE1	2.48	0.81
2:A4:796:GLN:H	3:A6:249:SER:HB3	0.66	0.81
2:A4:861:GLN:HA	6:D3:607:PRO:CB	2.11	0.81
2:A4:934:TRP:HZ2	4:B6:350:GLU:HG2	1.44	0.81
2:A4:970:PHE:HB3	6:D3:498:GLU:HB3	1.60	0.81
3:A5:996:ASN:HB3	11:I5:59:LEU:N	1.94	0.81
3:A6:520:GLU:HB3	6:D3:635:ALA:HB1	1.61	0.81
3:A6:1409:MSE:N	26:X4:686:ASP:CB	2.43	0.81
4:B5:344:ALA:HA	5:C2:737:LYS:HZ3	1.44	0.81
6:D2:301:LEU:HD12	6:D2:301:LEU:O	1.81	0.81
6:D7:301:LEU:HD12	6:D7:301:LEU:O	1.81	0.81
8:F1:1138:TRP:CD1	17:O2:244:GLU:CG	2.52	0.81
9:G1:263:MET:HA	16:N2:411:GLN:CG	2.09	0.81
9:G2:263:MET:HE3	17:O4:259:ASP:OD2	1.80	0.81
11:I1:931:VAL:CG2	15:M1:603:SER:OG	2.27	0.81
11:I1:950:LEU:HD13	16:N1:406:HIS:O	1.27	0.81
11:I1:1104:LEU:O	16:N1:436:ALA:HB1	1.79	0.81
11:I2:880:MET:CA	17:O3:246:LEU:O	2.28	0.81
11:I2:895:ARG:CD	17:O3:234:LEU:CD1	2.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:997:SER:HB2	17:O3:270:THR:CG2	2.09	0.81
11:I2:1109:LEU:CB	17:O3:290:TYR:CZ	2.61	0.81
21:S3:686:ALA:HB3	21:S4:1153:GLN:N	1.95	0.81
28:Z1:410:ASN:CB	30:b1:251:ILE:CG1	2.36	0.81
28:Z2:407:GLY:C	30:b2:251:ILE:HD11	2.04	0.81
28:Z4:539:GLU:HB3	30:b4:165:THR:N	1.78	0.81
2:A2:970:PHE:O	6:D1:202:GLN:CG	2.28	0.81
2:A2:1149:THR:CG2	3:A5:172:PRO:CD	2.04	0.81
2:A2:1155:ASN:CB	3:A5:175:GLU:CG	2.58	0.81
1:A3:1392:ARG:N	3:A6:225:THR:OG1	2.13	0.81
2:A4:642:ARG:NH1	3:A6:602:ILE:O	2.14	0.81
2:A4:676:LEU:CD1	3:A6:95:TYR:HE2	1.93	0.81
2:A4:719:ARG:HD3	3:A6:513:GLN:CD	2.05	0.81
2:A4:759:ALA:HB3	3:A6:388:GLU:CB	2.11	0.81
2:A4:807:SER:C	3:A6:383:PRO:HD2	2.03	0.81
2:A4:826:ASN:HD22	3:A6:565:THR:HB	1.42	0.81
2:A4:859:GLN:CB	3:A6:134:VAL:H	1.94	0.81
3:A5:232:LEU:HD12	5:C2:739:MET:CG	2.03	0.81
3:A5:1024:ASP:HB2	11:I5:94:GLU:C	2.04	0.81
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HB3	1.45	0.81
6:D7:480:PHE:HE2	11:I3:181:GLN:O	1.62	0.81
11:I1:833:PHE:CD2	17:O1:237:PRO:O	2.33	0.81
11:I1:919:ALA:CB	16:N1:392:THR:HG1	1.91	0.81
11:I1:983:LEU:CD1	15:M1:604:ASN:CG	2.46	0.81
11:I2:900:ARG:CG	17:O3:232:LYS:CE	2.58	0.81
11:I2:966:TRP:C	20:R3:153:GLN:CD	2.49	0.81
11:I2:1101:LEU:O	16:N3:432:TYR:CZ	2.25	0.81
17:O3:101:ASN:HB3	18:P3:326:GLN:HE21	0.65	0.81
23:U2:18:THR:CB	31:c4:478:SER:O	2.29	0.81
26:X2:292:LEU:CA	34:i:448:PHE:HE2	1.93	0.81
26:X2:300:SER:CB	34:i:335:HIS:CA	2.58	0.81
26:X4:156:GLU:OE2	26:X4:214:ARG:NH1	2.13	0.81
28:Z1:447:GLU:OE1	30:b1:250:GLY:HA2	1.81	0.81
28:Z3:539:GLU:HB3	30:b3:165:THR:N	1.78	0.81
2:A4:623:SER:OG	3:A6:453:SER:OG	1.89	0.81
2:A4:789:LEU:HD23	3:A6:145:THR:C	2.06	0.81
2:A4:908:LEU:CA	6:D3:552:TYR:CZ	2.64	0.81
2:A4:949:PHE:CA	4:B6:348:PRO:CD	2.58	0.81
3:A6:842:ARG:HD2	8:F2:776:HIS:NE2	1.96	0.81
3:A6:1403:MSE:HE1	28:Z4:964:LEU:CB	1.75	0.81
6:D7:176:SER:HB2	11:I3:95:LYS:HZ1	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:961:ARG:O	20:R1:165:SER:HB3	1.80	0.81
11:I1:1059:PRO:CD	17:O1:276:GLY:C	2.22	0.81
11:I2:947:LEU:N	17:O3:260:LEU:HD23	1.94	0.81
11:I2:962:ILE:HG21	20:R3:166:LEU:CG	2.06	0.81
11:I2:978:LYS:HZ2	20:R3:155:GLU:N	1.73	0.81
11:I2:1048:GLU:N	17:O3:287:LEU:HD22	1.96	0.81
11:I2:1370:VAL:HG22	12:J2:259:THR:HG21	1.61	0.81
11:I3:1275:SER:OG	26:X1:522:MET:CB	2.28	0.81
11:I4:1282:PHE:CE2	29:a3:24[B]:GLY:O	2.27	0.81
21:S3:678:GLU:N	21:S4:1141:GLU:C	2.37	0.81
21:S3:678:GLU:H	21:S4:1141:GLU:C	1.88	0.81
21:S4:1143:VAL:HA	21:S4:1146:ALA:HB3	1.63	0.81
23:U1:409:LYS:HE2	31:c2:548:VAL:CG1	2.05	0.81
23:U1:438:GLU:HG3	31:c2:541:ARG:HH11	0.71	0.81
23:U2:431:ILE:HG23	31:c4:484:LEU:HD12	1.62	0.81
23:U2:432:TYR:CE1	31:c4:465:PRO:HD2	2.16	0.81
23:U2:435:PHE:CA	31:c4:536:CYS:HB3	2.10	0.81
28:Z1:523:ASP:OD2	30:b1:239:THR:HG23	1.80	0.81
28:Z1:524:VAL:CG1	30:b1:236:THR:HG21	2.07	0.81
28:Z2:410:ASN:CB	30:b2:251:ILE:CG1	2.36	0.81
28:Z2:410:ASN:C	30:b2:251:ILE:HD12	1.90	0.81
28:Z2:561:GLN:CB	30:b2:236:THR:C	2.53	0.81
1:A1:1223:GLU:CG	2:A2:734:LEU:HD11	2.10	0.81
2:A2:869:ALA:HA	6:D1:583:ILE:HG21	1.60	0.81
2:A2:986:THR:CB	6:D1:497:PHE:CE1	2.58	0.81
2:A2:1149:THR:N	3:A5:172:PRO:N	2.26	0.81
2:A4:610:THR:H	3:A6:103:ARG:HH12	1.26	0.81
2:A4:724:LEU:HG	3:A6:496:THR:N	1.93	0.81
2:A4:727:ASN:ND2	3:A6:605:TYR:CG	2.49	0.81
2:A4:789:LEU:HD22	3:A6:146:LYS:HB2	1.19	0.81
2:A4:878:LEU:CA	6:D3:567:LEU:HD13	2.09	0.81
2:A4:909:LYS:HG2	6:D3:552:TYR:CE1	2.14	0.81
2:A4:949:PHE:N	4:B6:348:PRO:HD2	1.96	0.81
2:A4:951:GLU:OE2	3:A6:235:TYR:CE2	2.33	0.81
2:A4:975:GLU:HA	6:D3:499:LEU:CB	2.04	0.81
3:A5:994:VAL:O	11:I5:61:LYS:CD	2.27	0.81
3:A5:1030:THR:CA	11:I5:71:GLU:O	2.28	0.81
3:A5:1395:LYS:CG	28:Z2:870:ILE:C	2.54	0.81
3:A5:1399:ARG:HH12	28:Z2:909:LEU:CB	1.93	0.81
3:A6:136:GLU:HG2	6:D3:605:THR:HG23	1.60	0.81
8:F1:1205:TRP:CD1	17:O2:251:ILE:HG23	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1262:HIS:CD2	17:O2:259:ASP:CG	2.59	0.81
11:I1:877:ILE:HB	17:O1:253:LEU:N	1.95	0.81
11:I1:976:ARG:HH12	15:M1:622:VAL:CA	1.93	0.81
11:I2:877:ILE:CG1	17:O3:254:ARG:HB2	1.31	0.81
11:I2:956:ILE:HG21	15:M3:600:ASN:CA	2.10	0.81
11:I2:957:SER:CA	20:R3:167:GLN:C	2.40	0.81
11:I2:1040:HIS:CG	16:N3:434:LEU:CD1	2.64	0.81
21:S2:293:ASN:HB2	21:S2:310:TRP:O	1.81	0.81
21:S2:1097:LYS:HZ3	21:S2:1101:PHE:HE1	1.23	0.81
21:S3:293:ASN:HB2	21:S3:310:TRP:O	1.81	0.81
21:S3:1036:ILE:HD12	21:S3:1073:ILE:HG22	1.62	0.81
23:U1:438:GLU:CG	31:c2:541:ARG:NE	2.43	0.81
23:U2:19:LEU:HD12	31:c4:464:LEU:HD11	1.62	0.81
23:U2:394:ILE:HG23	31:c4:535:VAL:HA	1.31	0.81
26:X2:324:ILE:CD1	34:i:476:LEU:CD1	2.56	0.81
28:Z1:402:GLY:CA	30:b1:273:LYS:HB2	2.09	0.81
28:Z3:524:VAL:CG1	30:b3:236:THR:HG21	2.07	0.81
28:Z3:537:THR:OG1	30:b3:163:ASP:O	1.98	0.81
28:Z4:561:GLN:CB	30:b4:236:THR:C	2.53	0.81
2:A2:781:ARG:CG	6:D1:673:ARG:CB	2.50	0.81
2:A2:1124:ARG:HD2	3:A5:136:GLU:OE2	1.81	0.81
2:A2:1157:TYR:HH	3:A5:167:TRP:NE1	1.74	0.81
1:A3:1204:TRP:CZ3	3:A6:95:TYR:O	2.17	0.81
1:A3:1248:ILE:N	3:A6:587:VAL:HG13	1.95	0.81
1:A3:1261:TYR:CE2	3:A6:679:TYR:CZ	2.69	0.81
2:A4:93:ASP:O	3:A6:361:ASP:CB	2.29	0.81
2:A4:172:PRO:HB3	6:D3:781:ARG:CD	2.11	0.81
2:A4:611:ILE:HG23	3:A6:508:LEU:HG	0.81	0.81
2:A4:685:ARG:HH11	3:A6:432:VAL:HG23	1.42	0.81
2:A4:721:ARG:HG3	3:A6:494:PRO:CD	2.11	0.81
2:A4:763:LEU:CG	3:A6:470:ARG:HD3	2.10	0.81
2:A4:773:PHE:CD1	3:A6:469:PHE:HZ	1.98	0.81
2:A4:886:PHE:O	3:A6:175:GLU:CG	2.29	0.81
2:A4:985:ALA:HB3	6:D3:497:PHE:HA	1.61	0.81
2:A4:988:ARG:CD	6:D3:500:LYS:CG	2.58	0.81
3:A5:993:ASN:CA	11:I5:57:GLU:CG	2.47	0.81
3:A5:1026:PRO:C	11:I5:67:LYS:CA	2.35	0.81
3:A6:136:GLU:OE1	6:D3:604:ASP:C	2.02	0.81
3:A6:444:ARG:HG3	6:D3:737:PHE:CZ	2.16	0.81
8:F2:1090:PRO:C	17:O4:245:GLU:HA	1.97	0.81
11:I1:884:LEU:CD2	16:N1:396:ILE:HB	2.04	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:967:SER:HA	20:R1:153:GLN:OE1	1.81	0.81
11:I1:992:ILE:HG21	15:M1:607:SER:CB	1.89	0.81
11:I1:1066:LEU:H	16:N1:430:ARG:NE	1.78	0.81
11:I2:890:TYR:HB2	17:O3:242:ARG:H	1.46	0.81
11:I2:1109:LEU:CB	16:N3:438:LEU:CD2	2.58	0.81
11:I3:1272:TYR:C	26:X1:526:CYS:N	1.96	0.81
11:I3:1273:GLU:H	26:X1:527:VAL:N	1.78	0.81
23:U2:434:THR:HG23	31:c4:460:LEU:CD1	2.11	0.81
26:X2:333:GLU:HG2	34:i:475:ILE:CB	2.02	0.81
28:Z1:555:LYS:HB3	30:b1:212:PHE:CA	2.05	0.81
31:c4:677:VAL:HG21	31:c4:731:VAL:HG13	1.63	0.81
1:A3:1188:ASN:N	3:A6:723:PHE:CE1	2.49	0.80
1:A3:1261:TYR:CD1	3:A6:621:GLN:CB	0.86	0.80
2:A4:576:VAL:HG23	3:A6:453:SER:O	1.81	0.80
2:A4:671:SER:HB2	3:A6:505:ALA:HB1	1.62	0.80
2:A4:692:VAL:HG23	3:A6:379:VAL:O	1.81	0.80
2:A4:718:GLU:HB2	3:A6:514:GLY:HA2	1.61	0.80
2:A4:737:PRO:C	3:A6:89:LEU:HD13	2.06	0.80
2:A4:879:LEU:N	6:D3:567:LEU:HD11	1.94	0.80
2:A4:1150:LEU:HG	5:C4:731:LYS:HA	1.62	0.80
11:I1:797:LEU:HD13	17:O1:245:GLU:HG3	1.62	0.80
11:I1:911:PRO:CA	15:M1:584:GLN:HE22	1.95	0.80
11:I1:915:ALA:HB2	15:M1:581:LEU:O	1.81	0.80
11:I2:999:SER:CB	17:O3:264:ILE:HG21	2.11	0.80
23:U1:409:LYS:HE3	31:c2:548:VAL:HG11	1.61	0.80
23:U2:19:LEU:C	31:c4:483:ASP:CB	2.43	0.80
26:X2:196:ASP:N	34:i:364:TYR:CE2	2.47	0.80
26:X2:300:SER:OG	34:i:367:GLU:O	1.94	0.80
28:Z3:447:GLU:OE1	30:b3:250:GLY:HA2	1.81	0.80
28:Z3:561:GLN:HG2	30:b3:235:LEU:CD2	2.07	0.80
1:A1:777:LEU:CD1	1:A1:822:ILE:HD11	2.12	0.80
2:A4:80:LYS:CE	3:A6:387:THR:CG2	2.50	0.80
2:A4:92:ASP:OD1	3:A6:104:PRO:C	2.23	0.80
2:A4:538:ALA:HB1	3:A6:359:LEU:O	1.81	0.80
2:A4:548:LEU:HB2	3:A6:105:GLY:CA	2.11	0.80
2:A4:610:THR:HG22	3:A6:507:ALA:CA	2.01	0.80
2:A4:825:ARG:CA	3:A6:138:LEU:HD13	2.06	0.80
2:A4:859:GLN:HG2	3:A6:176:LEU:CD2	2.09	0.80
2:A4:955:CYS:H	4:B6:345:LYS:CB	1.94	0.80
8:F1:1138:TRP:H	17:O2:244:GLU:C	1.89	0.80
11:I1:940:LEU:CB	17:O1:259:ASP:O	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1673:VAL:H	11:I2:1611:PHE:HA	1.46	0.80
11:I2:951:LYS:HG3	16:N3:403:VAL:HB	1.62	0.80
11:I2:983:LEU:CD1	15:M3:621:ARG:NH2	2.44	0.80
11:I3:1277:LEU:HD21	26:X1:513:PHE:CG	2.16	0.80
11:I4:1282:PHE:CE1	29:a3:23[A]:PRO:CD	2.50	0.80
18:P2:319:VAL:HG22	18:P3:278:ASN:ND2	1.95	0.80
21:S1:680:PRO:HA	21:S2:1127:GLN:HE21	1.43	0.80
21:S3:684:THR:CA	21:S4:1150:TYR:H	1.93	0.80
21:S4:1036:ILE:HD12	21:S4:1073:ILE:HG22	1.62	0.80
23:U2:23:LYS:CG	31:c4:532:TRP:HZ3	1.93	0.80
23:U2:39:ILE:HD13	31:c4:553:LEU:HD12	1.63	0.80
23:U2:75:TRP:CG	31:c4:475:ALA:CB	2.64	0.80
23:U2:405:GLU:CA	31:c4:544:VAL:HG23	2.10	0.80
26:X2:332:ILE:HB	34:i:476:LEU:HA	1.60	0.80
31:c2:677:VAL:HG21	31:c2:731:VAL:HG13	1.63	0.80
2:A2:1155:ASN:OD1	3:A5:175:GLU:HG2	1.79	0.80
1:A3:1086:LYS:HB3	6:D3:798:MET:HA	0.86	0.80
2:A4:542:LEU:O	3:A6:361:ASP:HA	1.81	0.80
2:A4:702:SER:OG	3:A6:379:VAL:CG1	2.10	0.80
2:A4:799:ASP:OD1	3:A6:250:PHE:HE2	1.63	0.80
2:A4:827:ILE:HG13	3:A6:130:ILE:O	1.07	0.80
2:A4:861:GLN:NE2	6:D3:607:PRO:CA	2.43	0.80
3:A5:160:ILE:HD12	5:C2:743:LEU:HG	1.62	0.80
3:A5:777:LEU:CD1	3:A5:822:ILE:HD11	2.12	0.80
3:A5:1313:LYS:CB	28:Z2:830:LEU:O	2.29	0.80
3:A5:1416:ARG:O	28:Z2:963:LYS:HA	1.82	0.80
3:A6:518:GLU:C	6:D3:686:ASP:CB	2.53	0.80
8:F1:1264:ARG:HH22	17:O2:264:ILE:HD13	1.44	0.80
11:I1:930:LEU:HB3	15:M1:597:LYS:O	0.85	0.80
11:I1:998:ALA:CB	17:O1:267:ALA:HB2	2.12	0.80
11:I1:1052:LEU:HD23	16:N1:434:LEU:CD1	2.11	0.80
11:I1:1665:LEU:CB	11:I2:1667:GLN:CG	2.53	0.80
11:I1:1666:THR:CG2	11:I2:1602:PHE:HD1	1.95	0.80
11:I1:1669:ARG:CA	11:I2:1664:PHE:HZ	1.69	0.80
11:I1:1677:LYS:CE	11:I2:1543:LEU:HD13	2.11	0.80
11:I2:939:ASN:N	17:O3:261:LYS:O	2.09	0.80
11:I2:950:LEU:CD1	16:N3:410:MET:CE	2.59	0.80
11:I2:963:LEU:N	20:R3:165:SER:OG	1.83	0.80
11:I2:979:ALA:HB1	20:R3:167:GLN:HE22	1.45	0.80
23:U2:24:ILE:O	31:c4:489:LEU:HD12	1.80	0.80
23:U4:314:ILE:HG22	23:U4:315:LEU:HG	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:531:LYS:HZ3	30:b1:166:LEU:CB	1.95	0.80
28:Z2:411:LEU:CA	30:b2:251:ILE:HD13	2.11	0.80
28:Z3:407:GLY:C	30:b3:251:ILE:HD11	2.04	0.80
28:Z4:561:GLN:HE22	30:b4:237:LEU:CD1	1.90	0.80
31:c1:677:VAL:HG21	31:c1:731:VAL:HG13	1.63	0.80
1:A1:1402:ASP:N	2:A2:884:ARG:HH12	1.75	0.80
2:A2:864:ARG:HH12	6:D1:610:ASN:ND2	1.75	0.80
2:A2:972:GLY:N	6:D1:204:ASN:CA	2.12	0.80
2:A2:980:ARG:HB2	6:D1:526:LEU:CB	2.11	0.80
2:A2:980:ARG:HB2	6:D1:526:LEU:HB3	1.60	0.80
1:A3:1187:ASN:OD1	3:A6:619:CYS:HA	1.82	0.80
1:A3:1229:VAL:HG13	3:A6:574:ARG:CA	2.10	0.80
2:A4:549:ALA:HB2	3:A6:365:MET:HE3	1.60	0.80
2:A4:704:THR:O	3:A6:462:LEU:O	1.97	0.80
2:A4:857:LYS:C	3:A6:131:PRO:HA	2.05	0.80
3:A5:153:ILE:HD12	5:C2:739:MET:HE3	0.82	0.80
3:A5:1392:ARG:HG3	28:Z2:866:GLU:C	2.04	0.80
3:A6:486:GLN:CB	6:D3:675:ARG:HG3	1.87	0.80
6:D6:797:GLY:O	22:T3:767:MET:C	2.25	0.80
11:I1:898:VAL:HG11	17:O1:235:ASN:O	1.78	0.80
11:I1:914:ASN:HB2	15:M1:588:MET:H	0.93	0.80
11:I1:937:TYR:HB3	17:O1:258:GLU:CB	2.11	0.80
11:I1:981:VAL:HG11	20:R1:151:LYS:HB3	1.63	0.80
11:I1:1013:GLU:HB2	16:N1:411:GLN:OE1	1.79	0.80
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD21	1.60	0.80
11:I5:535:ASP:C	25:W2:8:HIS:N	2.40	0.80
21:S2:1120:PRO:HD3	21:S2:1155:GLN:HE22	1.41	0.80
23:U2:434:THR:HA	31:c4:460:LEU:HB3	0.85	0.80
28:Z1:524:VAL:N	30:b1:238:ASN:CB	2.03	0.80
28:Z2:523:ASP:OD2	30:b2:239:THR:HG23	1.80	0.80
28:Z2:561:GLN:CG	30:b2:235:LEU:C	2.55	0.80
28:Z4:523:ASP:HB3	30:b4:238:ASN:HA	1.54	0.80
28:Z4:537:THR:OG1	30:b4:163:ASP:O	1.98	0.80
2:A2:235:TYR:CZ	4:B2:347:LEU:HD12	2.17	0.80
2:A2:965:LYS:CA	6:D1:199:GLY:HA2	1.90	0.80
2:A2:974:PRO:HD3	6:D1:205:LEU:CG	2.12	0.80
1:A3:1052:THR:CG2	6:D3:812:VAL:O	2.27	0.80
1:A3:1187:ASN:OD1	3:A6:618:ALA:O	1.99	0.80
1:A3:1204:TRP:CG	3:A6:95:TYR:CD1	2.54	0.80
1:A3:1236:GLN:OE1	3:A6:578:ILE:HG12	1.80	0.80
2:A4:496:THR:CG2	3:A6:366:ALA:HB1	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:611:ILE:HB	3:A6:508:LEU:CB	1.95	0.80
2:A4:643:ALA:C	3:A6:501:VAL:O	2.25	0.80
2:A4:674:ASP:HA	3:A6:99:ASP:N	1.97	0.80
2:A4:779:ASP:CB	3:A6:487:ASP:H	1.93	0.80
2:A4:801:THR:OG1	3:A6:381:LEU:CB	2.29	0.80
2:A4:896:ALA:O	3:A6:165:PHE:CE1	2.34	0.80
2:A4:954:ILE:N	4:B6:345:LYS:CA	2.41	0.80
2:A4:955:CYS:H	4:B6:345:LYS:HB2	1.46	0.80
2:A4:982:THR:CB	6:D3:494:LEU:O	2.29	0.80
3:A5:175:GLU:OE1	5:C2:733:LEU:CD2	2.29	0.80
3:A5:220:VAL:CG1	5:C2:738:ASP:HB3	2.12	0.80
3:A5:1356:SER:OG	28:Z2:877:ILE:HA	1.82	0.80
3:A5:1391:ARG:HA	28:Z2:871:HIS:CB	2.10	0.80
3:A6:442:ARG:HH11	6:D3:695:LEU:CD1	1.94	0.80
3:A6:520:GLU:CA	6:D3:639:LEU:HD12	1.96	0.80
3:A6:520:GLU:CD	6:D3:636:ASP:CA	2.55	0.80
11:I1:887:GLN:HA	17:O1:242:ARG:HB2	1.63	0.80
11:I1:987:GLY:HA2	15:M1:614:ASP:CB	2.11	0.80
11:I1:994:ALA:H	17:O1:271:GLU:CG	1.84	0.80
11:I1:996:LEU:HD22	16:N1:410:MET:CE	1.70	0.80
11:I2:931:VAL:CG2	15:M3:600:ASN:O	2.29	0.80
11:I2:950:LEU:HD11	16:N3:410:MET:CE	2.10	0.80
11:I2:952:LEU:HD12	16:N3:400:LEU:HD21	1.63	0.80
23:U2:34:ASP:C	31:c4:558:GLU:OE1	2.02	0.80
23:U2:38:ILE:HG21	31:c4:555:VAL:HG12	1.62	0.80
23:U2:75:TRP:NE1	31:c4:475:ALA:HB1	1.95	0.80
23:U2:83:VAL:CA	31:c4:557:HIS:NE2	2.27	0.80
23:U2:360:HIS:CD2	31:c4:544:VAL:HG13	2.16	0.80
23:U2:405:GLU:HB2	31:c4:544:VAL:HG22	1.62	0.80
26:X2:305:GLU:HG3	34:i:325:VAL:CB	2.10	0.80
26:X2:305:GLU:HA	34:i:315:LEU:HD23	1.62	0.80
26:X4:155:LEU:O	26:X4:159:ILE:HG13	1.82	0.80
31:c3:677:VAL:HG21	31:c3:731:VAL:HG13	1.63	0.80
1:A1:871:ASN:OD1	6:D3:278:LEU:C	2.13	0.80
1:A1:1402:ASP:H	2:A2:884:ARG:HH12	1.24	0.80
1:A3:1253:SER:HB2	3:A6:635:ARG:HB2	0.84	0.80
2:A4:235:TYR:CZ	4:B4:347:LEU:HD12	2.17	0.80
2:A4:689:LYS:CE	3:A6:406:LEU:HD13	2.10	0.80
2:A4:710:LEU:N	3:A6:480:VAL:HG22	1.95	0.80
2:A4:727:ASN:HD21	3:A6:605:TYR:HA	1.43	0.80
2:A4:754:HIS:N	3:A6:540:GLN:HE21	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:892:SER:C	3:A6:232:LEU:HB3	2.07	0.80
2:A4:952:ARG:HG3	4:B6:347:LEU:CD2	2.08	0.80
2:A4:975:GLU:HB2	6:D3:499:LEU:CB	2.04	0.80
3:A5:999:SER:HB3	11:I5:64:LYS:HG3	1.61	0.80
3:A5:1151:THR:CA	5:C5:733:LEU:CD1	2.57	0.80
3:A6:446:LEU:CD2	6:D3:730:ARG:HG3	2.12	0.80
3:A6:1376:LEU:HA	28:Z4:830:LEU:CB	2.11	0.80
6:D3:301:LEU:HD12	6:D3:301:LEU:O	1.81	0.80
11:I1:921:GLU:CD	16:N1:392:THR:C	2.49	0.80
11:I1:976:ARG:NH1	15:M1:622:VAL:CG2	2.45	0.80
11:I1:1052:LEU:H	17:O1:286:ILE:CG2	1.94	0.80
11:I2:833:PHE:CD1	17:O3:245:GLU:OE2	2.34	0.80
11:I2:884:LEU:CG	16:N3:400:LEU:CD1	2.54	0.80
11:I2:895:ARG:H	17:O3:239:GLN:CG	1.94	0.80
11:I2:1037:THR:CB	20:R3:169:GLY:HA2	2.11	0.80
11:I3:1267:LEU:HD21	26:X1:529:TRP:CE3	2.15	0.80
11:I3:1278:ALA:HB3	26:X1:520:GLU:N	1.77	0.80
21:S1:293:ASN:HB2	21:S1:310:TRP:O	1.81	0.80
23:U1:38:ILE:HD13	31:c2:475:ALA:H	1.43	0.80
23:U2:432:TYR:N	31:c4:464:LEU:CB	2.45	0.80
24:V1:346:THR:HG22	31:c1:526:GLU:HB3	0.82	0.80
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:HE1	1.86	0.80
28:Z2:411:LEU:CD2	30:b2:251:ILE:CG2	2.54	0.80
28:Z3:523:ASP:OD2	30:b3:239:THR:CG2	2.30	0.80
28:Z3:561:GLN:CG	30:b3:235:LEU:C	2.55	0.80
28:Z4:447:GLU:OE1	30:b4:250:GLY:HA2	1.81	0.80
28:Z4:523:ASP:OD2	30:b4:239:THR:CG2	2.30	0.80
28:Z4:531:LYS:HZ1	30:b4:166:LEU:HB3	1.45	0.80
1:A1:873:PRO:CB	6:D3:218:LYS:HZ1	1.79	0.80
1:A1:1221:ILE:HD11	2:A2:618:ALA:CB	2.10	0.80
2:A2:827:ILE:HD12	2:A2:859:GLN:CB	2.00	0.80
1:A3:1198:GLU:C	2:A4:729:SER:C	2.48	0.80
1:A3:1241:ARG:NH2	3:A6:593:ALA:O	2.14	0.80
1:A3:1250:PRO:CG	3:A6:635:ARG:N	2.38	0.80
1:A3:1271:ILE:HB	3:A6:550:VAL:HB	0.95	0.80
2:A4:854:VAL:HG13	3:A6:172:PRO:C	2.06	0.80
2:A4:855:THR:HG21	3:A6:168:ASP:N	1.97	0.80
2:A4:893:LEU:HG	3:A6:175:GLU:HG3	1.62	0.80
2:A4:1055:ARG:CD	6:D4:762:ARG:C	2.53	0.80
3:A6:444:ARG:HG2	6:D3:737:PHE:HZ	0.98	0.80
6:D6:301:LEU:HD12	6:D6:301:LEU:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:983:LEU:N	15:M1:621:ARG:NH2	2.28	0.80
11:I1:1026:TYR:CD1	20:R1:175:GLN:CD	2.47	0.80
11:I1:1027:ALA:CB	20:R1:172:ASP:CG	2.45	0.80
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD22	2.06	0.80
11:I1:1607:GLN:CD	11:I2:1739:GLU:H	1.89	0.80
21:S3:938:LEU:HD22	22:T3:905:ARG:HG3	1.64	0.80
23:U2:34:ASP:HA	31:c4:561:THR:OG1	1.82	0.80
26:X2:300:SER:CB	34:i:335:HIS:N	2.43	0.80
26:X2:309:LEU:CD2	34:i:396:HIS:C	2.45	0.80
28:Z1:411:LEU:HG	30:b1:251:ILE:HG12	1.64	0.80
28:Z3:410:ASN:CB	30:b3:251:ILE:CG1	2.36	0.80
31:c5:677:VAL:HG21	31:c5:731:VAL:HG13	1.63	0.80
1:A1:1332:ARG:NE	6:D1:636:ASP:OD1	2.14	0.80
2:A2:904:GLN:HB3	6:D1:603:SER:H	1.42	0.80
1:A3:1049:PHE:CA	6:D3:816:VAL:CG2	2.60	0.80
1:A3:1130:ARG:NH2	3:A6:651:GLN:CA	2.43	0.80
1:A3:1189:LEU:CD2	3:A6:644:ALA:CB	2.49	0.80
2:A4:543:GLY:O	3:A6:365:MET:CB	2.30	0.80
2:A4:679:TYR:HD2	3:A6:510:TYR:HD1	1.25	0.80
2:A4:765:GLU:HB2	3:A6:559:PHE:HZ	0.68	0.80
2:A4:770:GLY:O	3:A6:528:ILE:HD12	1.82	0.80
2:A4:776:MET:HA	3:A6:519:LEU:HD12	1.61	0.80
2:A4:856:PHE:HB2	3:A6:167:TRP:HE1	1.46	0.80
3:A5:1026:PRO:CD	11:I5:66:LEU:CD2	2.44	0.80
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CB	2.11	0.80
3:A6:777:LEU:CD1	3:A6:822:ILE:HD11	2.12	0.80
6:D1:301:LEU:O	6:D1:301:LEU:HD12	1.81	0.80
6:D5:381:ASN:ND2	31:c1:311:ALA:CB	2.45	0.80
8:F1:1091:SER:HG	17:O2:241:SER:HB2	1.40	0.80
9:G1:263:MET:SD	16:N2:407:ALA:HB1	2.22	0.80
11:I1:922:ASP:H	15:M1:592:LEU:HD23	0.63	0.80
11:I1:1024:PHE:HB2	16:N1:406:HIS:HB2	0.80	0.80
11:I1:1667:GLN:CG	11:I2:1665:LEU:CG	2.04	0.80
11:I2:1051:LYS:HE3	17:O3:289:ASP:N	1.97	0.80
21:S1:1036:ILE:HD12	21:S1:1073:ILE:HG22	1.62	0.80
22:T1:744:ILE:C	31:c5:27:MET:SD	2.64	0.80
23:U2:19:LEU:CA	31:c4:483:ASP:HB2	2.11	0.80
23:U2:22:PHE:CE1	31:c4:531:TRP:CE2	2.69	0.80
26:X2:306:TRP:CE3	34:i:404:ARG:HA	2.17	0.80
26:X2:315:GLN:H	34:i:399:PRO:C	1.89	0.80
28:Z1:411:LEU:CA	30:b1:251:ILE:HD13	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:561:GLN:HE22	30:b2:237:LEU:CD1	1.90	0.80
28:Z3:531:LYS:HD2	30:b3:182:PRO:C	2.06	0.80
28:Z4:535:ILE:CG1	30:b4:182:PRO:HB3	1.97	0.80
28:Z4:561:GLN:CG	30:b4:235:LEU:C	2.55	0.80
1:A1:874:VAL:CB	6:D3:276:GLY:O	2.27	0.80
1:A1:1200:ARG:CZ	2:A2:642:ARG:NH2	2.45	0.80
2:A2:979:GLY:O	6:D1:473:GLU:OE2	1.99	0.80
2:A2:1019:ARG:CZ	6:D1:237:PRO:O	2.30	0.80
1:A3:1201:ARG:H	3:A6:682:ARG:NH2	1.80	0.80
2:A4:93:ASP:O	3:A6:361:ASP:CA	2.29	0.80
2:A4:535:PHE:HD1	3:A6:368:SER:HB2	1.43	0.80
2:A4:642:ARG:CG	3:A6:501:VAL:HG21	2.11	0.80
2:A4:946:LYS:HB2	4:B6:350:GLU:C	2.06	0.80
2:A4:973:GLU:N	6:D3:205:LEU:N	2.17	0.80
3:A5:1406:GLY:HA2	28:Z2:921:THR:CB	2.11	0.80
3:A6:1368:GLN:HB2	28:Z4:875:LEU:HA	1.63	0.80
8:F1:1136:GLN:C	17:O2:248:SER:OG	2.24	0.80
11:I1:842:ASN:CA	15:M1:587:GLU:HG3	2.08	0.80
11:I1:880:MET:HG3	17:O1:247:TRP:HA	1.64	0.80
11:I1:911:PRO:HB2	15:M1:584:GLN:NE2	1.96	0.80
11:I1:924:ILE:C	15:M1:597:LYS:H	1.88	0.80
11:I1:1042:LEU:O	16:N1:430:ARG:NH2	2.15	0.80
11:I2:895:ARG:HA	17:O3:234:LEU:O	1.82	0.80
11:I2:957:SER:N	16:N3:399:HIS:NE2	2.14	0.80
11:I2:1037:THR:CG2	20:R3:169:GLY:CA	2.52	0.80
11:I2:1049:LEU:O	17:O3:288:GLU:N	2.13	0.80
23:U1:26:GLN:HG3	31:c2:563:ARG:CG	2.11	0.80
26:X2:317:PHE:CA	34:i:400:LYS:HZ1	1.95	0.80
28:Z4:411:LEU:CA	30:b4:251:ILE:HD13	2.11	0.80
2:A4:79:ALA:HB1	3:A6:321:ASP:HA	1.64	0.80
2:A4:548:LEU:CB	3:A6:105:GLY:HA3	2.12	0.80
2:A4:552:PHE:CE1	3:A6:109:ASP:N	2.33	0.80
2:A4:555:VAL:HG21	3:A6:437:ARG:HH22	1.42	0.80
2:A4:675:ALA:CB	3:A6:508:LEU:HD13	2.11	0.80
2:A4:710:LEU:C	3:A6:490:PHE:CB	2.50	0.80
2:A4:727:ASN:HD22	3:A6:497:GLY:HA3	0.66	0.80
2:A4:970:PHE:HZ	6:D3:555:ARG:HH22	1.29	0.80
6:D5:301:LEU:HD12	6:D5:301:LEU:O	1.81	0.80
11:I1:887:GLN:O	17:O1:239:GLN:OE1	1.99	0.80
11:I1:913:ALA:H	15:M1:584:GLN:HE21	1.27	0.80
11:I1:1032:THR:O	15:M1:627:LEU:HG	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:841:PHE:CE1	15:M3:588:MET:CG	2.59	0.80
11:I2:900:ARG:HG3	17:O3:232:LYS:CD	2.10	0.80
11:I2:945:LEU:CG	17:O3:255:GLY:O	2.29	0.80
11:I2:980:ILE:N	20:R3:147:LEU:CD1	2.34	0.80
11:I2:1019:LEU:N	16:N3:409:ALA:C	2.40	0.80
11:I2:1103:LEU:HD22	20:R3:174:ARG:HB3	1.64	0.80
11:I3:1271:GLU:CB	26:X1:525:ILE:HG22	2.11	0.80
11:I5:1279:THR:OG1	26:X2:520:GLU:C	2.24	0.80
21:S2:1036:ILE:HD12	21:S2:1073:ILE:HG22	1.62	0.80
21:S3:1143:VAL:HA	21:S3:1146:ALA:HB3	1.63	0.80
23:U2:437:ASN:ND2	31:c4:198:ARG:NH2	2.29	0.80
26:X2:192:LEU:CB	34:i:439:GLN:C	2.53	0.80
28:Z2:539:GLU:HB3	30:b2:165:THR:N	1.78	0.80
28:Z4:557:CYS:CA	30:b4:210:ARG:CA	2.60	0.80
2:A2:1167:CYS:HB3	4:B5:342:ARG:HE	1.45	0.79
1:A3:1188:ASN:HB2	3:A6:642:ARG:HA	1.64	0.79
1:A3:1229:VAL:HG13	3:A6:574:ARG:C	2.07	0.79
1:A3:1255:LEU:CB	3:A6:634:ASP:OD2	2.31	0.79
2:A4:752:LYS:HA	3:A6:540:GLN:N	1.95	0.79
2:A4:950:ASP:OD2	4:B6:348:PRO:HA	1.50	0.79
3:A5:1050:TYR:OH	11:I5:70:GLU:HB3	1.80	0.79
8:F1:1093:LEU:HG	17:O2:241:SER:CA	2.12	0.79
11:I1:880:MET:CG	17:O1:247:TRP:O	2.30	0.79
11:I1:1064:LYS:CB	16:N1:427:VAL:HG11	1.78	0.79
11:I1:1114:VAL:HG13	16:N1:432:TYR:HD2	1.34	0.79
11:I1:1667:GLN:CD	11:I2:1665:LEU:CB	2.54	0.79
11:I2:930:LEU:HD23	15:M3:597:LYS:O	1.66	0.79
11:I2:947:LEU:C	17:O3:256:TYR:HD2	1.87	0.79
11:I4:1270:LYS:HD2	26:X3:527:VAL:CB	2.12	0.79
17:O3:101:ASN:CB	18:P3:326:GLN:NE2	1.95	0.79
21:S1:938:LEU:HD22	22:T1:905:ARG:HG3	1.64	0.79
21:S4:1097:LYS:HZ3	21:S4:1101:PHE:HE1	1.27	0.79
26:X2:367:SER:CA	34:i:366:PHE:CE1	2.63	0.79
26:X3:155:LEU:O	26:X3:159:ILE:HG13	1.82	0.79
28:Z1:552:ASP:O	30:b1:233:TRP:CG	2.14	0.79
28:Z2:523:ASP:OD2	30:b2:239:THR:CG2	2.30	0.79
2:A2:872:ALA:CB	6:D1:565:MET:HA	1.92	0.79
2:A2:965:LYS:HE2	6:D1:196:ILE:O	1.81	0.79
1:A3:1123:GLU:OE2	3:A6:599:ARG:HD2	1.82	0.79
1:A3:1248:ILE:HG13	3:A6:587:VAL:HG13	0.79	0.79
1:A3:1273:ALA:N	3:A6:554:GLN:C	2.33	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1321:MET:HE3	3:A6:571:ARG:HH21	0.97	0.79
2:A4:867:GLU:HB2	6:D3:605:THR:HB	1.62	0.79
3:A6:446:LEU:CD2	6:D3:730:ARG:HG2	2.12	0.79
3:A6:1416:ARG:O	28:Z4:1001:LEU:C	2.24	0.79
8:F1:1264:ARG:NE	17:O2:263:GLN:C	2.36	0.79
9:G1:263:MET:CE	17:O2:256:TYR:OH	2.30	0.79
11:I1:846:ILE:HD12	15:M1:594:LYS:HD2	1.61	0.79
11:I1:846:ILE:CD1	15:M1:594:LYS:HD2	2.10	0.79
11:I1:874:LEU:HD23	17:O1:252:VAL:CG1	2.06	0.79
11:I1:950:LEU:HB3	16:N1:406:HIS:HB3	1.62	0.79
11:I1:976:ARG:NH1	15:M1:622:VAL:HG22	1.96	0.79
11:I1:1036:PRO:O	15:M1:623:LEU:O	1.99	0.79
11:I2:894:VAL:HG13	17:O3:238:ALA:N	1.80	0.79
11:I3:1270:LYS:N	26:X1:529:TRP:H	1.79	0.79
21:S4:176:MET:HE1	21:S4:232:LEU:CD1	2.12	0.79
21:S4:938:LEU:HD22	22:T4:905:ARG:HG3	1.64	0.79
22:T1:832:VAL:HG11	31:c5:23:ARG:H	1.44	0.79
23:U1:22:PHE:CE2	31:c2:559:ILE:HG21	2.16	0.79
26:X2:292:LEU:C	34:i:448:PHE:CE2	2.60	0.79
26:X2:311:LEU:HA	34:i:401:CYS:H	0.97	0.79
28:Z1:523:ASP:OD2	30:b1:239:THR:CG2	2.30	0.79
28:Z4:410:ASN:HB3	30:b4:251:ILE:HD12	1.55	0.79
28:Z4:411:LEU:HG	30:b4:251:ILE:HG12	1.63	0.79
28:Z4:524:VAL:H	30:b4:238:ASN:CA	1.96	0.79
2:A2:871:ASN:HB2	6:D1:571:SER:CB	2.12	0.79
2:A2:968:SER:CA	6:D1:201:LEU:O	2.28	0.79
2:A2:989:MSE:HE3	6:D1:240:ASP:C	2.01	0.79
2:A2:1121:LEU:C	3:A5:132:ASP:C	2.47	0.79
2:A2:1139:ILE:CG2	3:A5:135:PHE:CD2	2.63	0.79
1:A3:1257:VAL:HG13	3:A6:620:GLY:N	1.96	0.79
1:A3:1274:ASP:OD1	3:A6:558:GLU:HG3	1.82	0.79
1:A3:1277:TRP:HB3	3:A6:556:PRO:HD3	1.65	0.79
1:A3:1332:ARG:HG3	6:D3:636:ASP:HB2	1.61	0.79
2:A4:678:LEU:CD1	3:A6:103:ARG:O	2.26	0.79
2:A4:691:LYS:CD	3:A6:316:ARG:HB2	2.11	0.79
2:A4:705:ILE:CG2	3:A6:480:VAL:O	2.28	0.79
2:A4:759:ALA:HB3	3:A6:388:GLU:CA	2.13	0.79
2:A4:860:GLU:O	6:D3:607:PRO:HD3	1.81	0.79
3:A5:233:THR:N	5:C2:738:ASP:H	1.80	0.79
3:A6:1394:VAL:O	28:Z4:917:ASP:N	2.15	0.79
3:A6:1403:MSE:SE	28:Z4:964:LEU:O	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:500:LYS:CE	31:c3:472:GLU:HG3	2.12	0.79
9:G2:257:THR:C	17:O4:259:ASP:H	1.89	0.79
11:I1:928:LEU:HD11	20:R1:155:GLU:HB2	1.65	0.79
11:I1:1665:LEU:HB2	11:I2:1667:GLN:CD	2.06	0.79
11:I2:922:ASP:HB3	15:M3:589:GLY:C	2.06	0.79
11:I2:1029:LEU:H	20:R3:171:ALA:C	1.89	0.79
11:I4:819:MET:CB	26:X3:501:LYS:CE	2.60	0.79
17:O3:155:VAL:HG21	18:P3:321:ILE:CG2	1.96	0.79
21:S3:684:THR:C	21:S4:1150:TYR:H	1.66	0.79
22:T1:724:TYR:HE2	31:c5:31:TYR:CD2	1.99	0.79
22:T1:752:ALA:HB1	31:c5:58:ARG:CD	2.05	0.79
23:U1:202:LEU:HB3	31:c1:633:PHE:CA	2.10	0.79
23:U1:431:ILE:HD11	31:c2:469:SER:N	1.93	0.79
23:U2:74:PHE:CE2	31:c4:552:ARG:NH2	2.50	0.79
23:U2:415:THR:H	31:c4:541:ARG:NE	1.77	0.79
23:U2:433:ALA:CB	31:c4:462:HIS:N	2.46	0.79
26:X2:299:SER:CB	34:i:369:VAL:O	2.28	0.79
28:Z1:531:LYS:HD2	30:b1:182:PRO:C	2.06	0.79
28:Z2:522:ASN:N	30:b2:238:ASN:HB3	1.96	0.79
28:Z2:531:LYS:HZ3	30:b2:166:LEU:CB	1.94	0.79
28:Z2:557:CYS:HB3	30:b2:210:ARG:HH11	1.01	0.79
28:Z3:402:GLY:O	30:b3:273:LYS:HB3	1.82	0.79
2:A2:876:ARG:CZ	6:D1:563:GLU:CA	2.44	0.79
2:A2:965:LYS:HE2	6:D1:196:ILE:C	2.08	0.79
1:A3:1099:GLN:NE2	11:I2:1416:GLY:N	2.25	0.79
1:A3:1186:TRP:O	3:A6:618:ALA:HA	1.81	0.79
1:A3:1191:ASN:O	3:A6:612:ALA:HA	1.81	0.79
1:A3:1200:ARG:CD	3:A6:609:GLU:HG2	2.11	0.79
1:A3:1271:ILE:CB	3:A6:550:VAL:HG12	2.06	0.79
2:A4:672:ARG:HA	3:A6:508:LEU:HD13	1.64	0.79
2:A4:901:ALA:HB2	3:A6:176:LEU:HD12	1.64	0.79
3:A5:1026:PRO:HB2	11:I5:73:TYR:HD1	0.78	0.79
6:D4:301:LEU:HD12	6:D4:301:LEU:O	1.81	0.79
6:D7:530:ARG:HB3	11:I3:181:GLN:CB	1.87	0.79
11:I1:797:LEU:HD11	17:O1:245:GLU:N	1.97	0.79
11:I1:846:ILE:CG1	15:M1:594:LYS:HD2	2.13	0.79
11:I1:920:PHE:CD1	17:O1:243:LEU:HD22	2.17	0.79
11:I1:945:LEU:CG	17:O1:259:ASP:H	1.96	0.79
11:I1:1031:ALA:O	20:R1:176:ARG:HB2	1.11	0.79
11:I1:1051:LYS:HB2	17:O1:290:TYR:H	1.48	0.79
11:I1:1607:GLN:HG2	11:I2:1739:GLU:H	1.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1607:GLN:HG2	11:I2:1739:GLU:HA	0.82	0.79
11:I1:1736:LEU:HD12	11:I2:1607:GLN:NE2	1.96	0.79
11:I2:966:TRP:N	20:R3:154:ALA:N	2.21	0.79
11:I2:1040:HIS:O	15:M3:616:LEU:HD12	1.83	0.79
11:I3:1267:LEU:HD11	26:X1:529:TRP:CZ3	2.09	0.79
11:I3:1267:LEU:HD12	26:X1:529:TRP:CA	2.12	0.79
21:S1:1143:VAL:HA	21:S1:1146:ALA:HB3	1.63	0.79
21:S2:176:MET:HE1	21:S2:232:LEU:CD1	2.12	0.79
21:S3:176:MET:HE1	21:S3:232:LEU:CD1	2.12	0.79
23:U2:37:ASN:O	31:c4:474:ASN:CB	2.29	0.79
26:X2:192:LEU:HG	34:i:443:THR:HG22	1.54	0.79
28:Z1:561:GLN:CG	30:b1:235:LEU:C	2.55	0.79
28:Z2:557:CYS:HB3	30:b2:210:ARG:NH1	1.51	0.79
28:Z3:411:LEU:CD2	30:b3:251:ILE:CG2	2.54	0.79
28:Z3:524:VAL:H	30:b3:238:ASN:CA	1.96	0.79
28:Z4:401:THR:C	30:b4:254:SER:OG	2.25	0.79
28:Z4:401:THR:HA	30:b4:252:ALA:C	2.08	0.79
28:Z4:522:ASN:N	30:b4:238:ASN:HB3	1.96	0.79
1:A1:1226:LEU:N	2:A2:725:GLU:HG3	1.97	0.79
1:A1:1226:LEU:HA	2:A2:728:LYS:HB3	1.64	0.79
1:A3:1048:ARG:CZ	6:D3:790:ARG:NH2	2.46	0.79
1:A3:1049:PHE:HA	6:D3:816:VAL:CG2	2.13	0.79
1:A3:1182:ILE:HG22	3:A6:636:ASN:HA	1.65	0.79
1:A3:1236:GLN:CD	3:A6:578:ILE:CA	2.51	0.79
2:A4:642:ARG:CD	3:A6:501:VAL:HG21	2.11	0.79
2:A4:682:ARG:HG2	3:A6:432:VAL:N	1.96	0.79
2:A4:717:VAL:CG2	3:A6:476:PHE:HB3	2.11	0.79
2:A4:730:THR:CB	3:A6:609:GLU:HG2	2.12	0.79
2:A4:878:LEU:HD21	6:D3:607:PRO:C	2.08	0.79
2:A4:946:LYS:CB	4:B6:350:GLU:C	2.55	0.79
2:A4:947:LYS:HD2	3:A6:203:ILE:CD1	2.12	0.79
2:A4:951:GLU:OE2	3:A6:235:TYR:CD2	2.35	0.79
2:A4:988:ARG:CD	6:D3:500:LYS:HG3	2.12	0.79
3:A5:1056:PHE:CD2	11:I5:37:GLU:CG	2.62	0.79
3:A5:1368:GLN:C	28:Z2:825:TYR:O	2.25	0.79
3:A6:484:PRO:HD2	6:D3:672:GLU:CG	2.05	0.79
5:C1:732:LYS:CE	11:I1:1228:GLU:CG	2.54	0.79
9:G1:258:LYS:HB3	17:O2:253:LEU:HD23	1.64	0.79
11:I1:923:GLY:HA3	15:M1:592:LEU:H	1.44	0.79
11:I1:963:LEU:CD2	20:R1:176:ARG:HH22	1.90	0.79
11:I1:1016:ARG:O	16:N1:409:ALA:CA	2.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:CD1	16:N3:400:LEU:CG	2.57	0.79
11:I2:1017:VAL:HG13	16:N3:410:MET:HG2	0.81	0.79
11:I2:1059:PRO:HB2	17:O3:275:LEU:N	1.92	0.79
17:O4:112:GLY:CA	18:P1:278:ASN:CB	2.52	0.79
23:U2:82:LEU:HD22	31:c4:550:LYS:NZ	1.97	0.79
23:U2:359:ILE:O	31:c4:545:PRO:HG3	1.80	0.79
23:U3:314:ILE:HG22	23:U3:315:LEU:HG	1.64	0.79
26:X2:198:GLU:HG2	34:i:367:GLU:H	1.47	0.79
26:X2:309:LEU:C	34:i:406:HIS:HE2	1.91	0.79
28:Z3:557:CYS:O	30:b3:235:LEU:O	1.99	0.79
28:Z4:524:VAL:CB	30:b4:236:THR:CG2	2.31	0.79
1:A3:777:LEU:CD1	1:A3:822:ILE:HD11	2.12	0.79
1:A3:1088:ASN:C	6:D3:808:ASN:HD22	1.89	0.79
1:A3:1189:LEU:CG	3:A6:614:ALA:HB1	2.13	0.79
1:A3:1223:GLU:O	3:A6:496:THR:CG2	2.31	0.79
1:A3:1228:TYR:CG	3:A6:551:GLN:HB3	2.18	0.79
1:A3:1233:GLN:CG	3:A6:578:ILE:CD1	2.59	0.79
1:A3:1245:ASP:O	3:A6:587:VAL:HG11	1.83	0.79
1:A3:1328:ARG:O	3:A6:127:HIS:CE1	2.36	0.79
2:A4:535:PHE:CD1	3:A6:368:SER:CB	2.55	0.79
2:A4:555:VAL:HG22	3:A6:437:ARG:HH21	0.98	0.79
2:A4:758:HIS:HA	3:A6:535:PHE:HE1	1.48	0.79
2:A4:778:PHE:HA	3:A6:524:ARG:HG3	1.63	0.79
3:A6:444:ARG:N	6:D3:719:LEU:CD1	2.45	0.79
3:A6:1398:LYS:HD3	28:Z4:921:THR:CB	2.12	0.79
8:F1:1094:GLY:CA	17:O2:237:PRO:CA	2.35	0.79
8:F1:1262:HIS:CE1	17:O2:259:ASP:H	1.96	0.79
11:I1:886:LEU:HB2	17:O1:242:ARG:CA	2.11	0.79
11:I1:915:ALA:HB1	16:N1:382:MET:SD	2.23	0.79
11:I1:916:ALA:C	16:N1:389:PHE:CZ	2.56	0.79
11:I1:925:LEU:N	15:M1:596:ILE:HB	1.97	0.79
11:I1:947:LEU:HD12	16:N1:407:ALA:O	1.83	0.79
11:I1:1035:GLN:O	15:M1:627:LEU:HB2	1.77	0.79
11:I1:1042:LEU:HA	15:M1:616:LEU:HD21	0.81	0.79
11:I2:1034:ASP:C	16:N3:441:PHE:CD2	2.56	0.79
11:I2:1039:ALA:CB	20:R3:170:LEU:N	2.44	0.79
11:I2:1039:ALA:HB2	20:R3:170:LEU:CB	1.84	0.79
11:I2:1055:GLU:CA	17:O3:278:GLU:HA	2.12	0.79
11:I2:1069:SER:OG	16:N3:427:VAL:HB	1.83	0.79
11:I3:777:SER:HB2	29:a2:40[B]:GLU:CB	2.03	0.79
22:T1:736:LEU:C	31:c5:19:THR:HG22	2.08	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:38:ILE:CG2	31:c2:473:THR:HB	2.12	0.79
23:U1:135:ARG:HG2	31:c1:634:HIS:O	1.82	0.79
23:U2:360:HIS:CG	31:c4:545:PRO:HD2	1.64	0.79
23:U2:437:ASN:HB3	31:c4:195:ILE:CB	2.13	0.79
26:X2:155:LEU:O	26:X2:159:ILE:HG13	1.82	0.79
26:X2:192:LEU:HD11	34:i:442:SER:N	1.96	0.79
28:Z1:402:GLY:O	30:b1:273:LYS:HB3	1.82	0.79
28:Z1:524:VAL:H	30:b1:238:ASN:CA	1.96	0.79
28:Z2:406:ARG:CG	30:b2:252:ALA:HB1	2.13	0.79
2:A2:1155:ASN:HB3	3:A5:177:ILE:CG1	2.09	0.79
1:A3:1325:MET:CE	3:A6:125:VAL:HG23	2.13	0.79
2:A4:76:PRO:HD2	3:A6:322:ASP:HB2	1.64	0.79
2:A4:577:ASP:CB	3:A6:453:SER:CB	2.61	0.79
2:A4:729:SER:N	3:A6:609:GLU:CD	2.25	0.79
2:A4:777:LEU:HD21	3:A6:526:ILE:HG12	1.65	0.79
2:A4:983:LEU:HD12	6:D3:553:PHE:HB2	1.61	0.79
2:A4:988:ARG:HH21	6:D3:499:LEU:C	1.91	0.79
3:A5:1028:VAL:HG12	11:I5:68:ILE:HD13	1.63	0.79
8:F1:1137:GLN:CA	17:O2:244:GLU:O	2.29	0.79
9:G2:256:GLN:CB	17:O4:262:ASP:H	1.96	0.79
11:I1:984:GLU:CB	15:M1:618:GLN:CD	2.54	0.79
11:I1:1026:TYR:O	20:R1:172:ASP:HA	1.83	0.79
11:I1:1056:PRO:HA	17:O1:278:GLU:HB2	0.79	0.79
11:I1:1109:LEU:CD1	17:O1:290:TYR:HE2	0.32	0.79
11:I2:797:LEU:HD12	17:O3:248:SER:OG	1.82	0.79
11:I2:834:SER:HB2	17:O3:237:PRO:HA	1.54	0.79
11:I2:938:CYS:C	17:O3:261:LYS:CA	2.54	0.79
11:I2:947:LEU:CG	16:N3:407:ALA:C	2.38	0.79
11:I2:977:ASN:O	20:R3:148:ALA:CA	2.17	0.79
11:I2:1029:LEU:HD13	16:N3:433:GLU:CG	2.09	0.79
11:I2:1046:HIS:C	17:O3:284:LYS:CG	2.54	0.79
11:I2:1064:LYS:C	17:O3:274:GLY:HA2	2.06	0.79
21:S2:938:LEU:HD22	22:T2:905:ARG:HG3	1.64	0.79
21:S2:1143:VAL:HA	21:S2:1146:ALA:HB3	1.63	0.79
22:T1:824:VAL:HG21	31:c5:55:VAL:N	1.97	0.79
23:U1:20:LYS:O	31:c2:471:LEU:CD1	2.22	0.79
23:U1:402:GLY:CA	31:c2:547:ASN:C	2.51	0.79
23:U2:17:ASP:CB	31:c4:467:GLU:OE2	2.23	0.79
23:U2:83:VAL:HG22	31:c4:557:HIS:HD1	1.47	0.79
23:U2:437:ASN:CA	31:c4:195:ILE:HD12	2.13	0.79
26:X2:283:ASP:CA	34:i:479:THR:CG2	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:299:SER:O	34:i:335:HIS:CE1	2.36	0.79
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CB	2.46	0.79
2:A2:872:ALA:HB1	6:D1:565:MET:SD	2.23	0.79
1:A3:1186:TRP:N	3:A6:639:ASN:CA	2.46	0.79
1:A3:1220:PRO:HG3	2:A4:732:GLN:CD	2.08	0.79
2:A4:677:ALA:H	3:A6:98:LEU:HA	1.16	0.79
2:A4:680:LEU:HD21	3:A6:470:ARG:NE	1.97	0.79
2:A4:687:LEU:CD2	3:A6:403:ARG:HG2	2.13	0.79
2:A4:712:THR:C	3:A6:490:PHE:CE1	2.61	0.79
2:A4:757:LEU:HG	3:A6:543:GLY:N	1.98	0.79
2:A4:775:LEU:CG	3:A6:489:LEU:HD12	2.12	0.79
2:A4:792:VAL:HG12	3:A6:188:ALA:HB2	1.63	0.79
2:A4:886:PHE:HE1	3:A6:176:LEU:CG	1.95	0.79
3:A5:1094:ILE:HG23	11:I5:4:LEU:CG	2.11	0.79
3:A6:444:ARG:N	6:D3:719:LEU:HD13	1.97	0.79
3:A6:484:PRO:CD	6:D3:672:GLU:CG	2.42	0.79
8:F1:1137:GLN:HB3	17:O2:248:SER:H	0.63	0.79
11:I1:797:LEU:CB	17:O1:245:GLU:CG	2.48	0.79
11:I1:914:ASN:CB	15:M1:588:MET:N	2.34	0.79
11:I1:931:VAL:HG23	15:M1:603:SER:HG	1.47	0.79
11:I1:1063:GLN:C	16:N1:428:ASP:CB	2.54	0.79
11:I1:1103:LEU:CD1	20:R1:175:GLN:NE2	2.46	0.79
11:I2:833:PHE:O	17:O3:241:SER:CB	2.30	0.79
11:I2:924:ILE:HB	15:M3:598:GLU:H	1.46	0.79
17:O3:154:ARG:CD	18:P3:324:LEU:CD1	2.40	0.79
21:S1:662:ASP:O	21:S2:1150:TYR:CB	2.31	0.79
23:U1:38:ILE:HD11	31:c2:474:ASN:C	2.08	0.79
26:X2:262:ILE:HD11	34:i:450:GLU:OE2	1.82	0.79
26:X2:332:ILE:HD13	34:i:476:LEU:O	1.81	0.79
28:Z1:544:MET:HE1	30:b1:181:TYR:HA	1.65	0.79
28:Z2:411:LEU:HG	30:b2:251:ILE:HG12	1.64	0.79
1:A1:1332:ARG:CZ	6:D1:682:ASN:N	2.45	0.79
1:A3:1099:GLN:HE21	11:I2:1415:SER:C	1.69	0.79
1:A3:1237:LEU:HB3	3:A6:597:GLU:HG2	1.60	0.79
1:A3:1240:HIS:ND1	3:A6:118:SER:OG	2.14	0.79
1:A3:1392:ARG:CA	3:A6:225:THR:OG1	2.30	0.79
2:A4:173:ASN:HD21	6:D3:762:ARG:C	1.88	0.79
2:A4:802:TYR:O	3:A6:381:LEU:O	1.92	0.79
2:A4:901:ALA:HB1	3:A6:133:LYS:CE	2.13	0.79
2:A4:949:PHE:O	4:B6:347:LEU:HD23	1.83	0.79
3:A5:1365:VAL:CB	28:Z2:841:ALA:CB	2.56	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1367:THR:HB	28:Z2:845:ILE:N	1.54	0.79
3:A6:1069:SER:O	3:A6:1078:ARG:NH1	2.16	0.79
5:C1:732:LYS:HZ2	11:I1:1225:LYS:HD2	0.97	0.79
8:F2:1091:SER:O	17:O4:244:GLU:CB	2.31	0.79
11:I1:953:LEU:H	16:N1:403:VAL:HG11	1.47	0.79
11:I1:1023:ASP:CG	16:N1:405:ALA:HB1	2.08	0.79
11:I2:840:LEU:CB	17:O3:247:TRP:CD1	2.65	0.79
11:I2:877:ILE:HG12	17:O3:254:ARG:HB2	0.93	0.79
11:I2:976:ARG:NH1	20:R3:147:LEU:N	2.31	0.79
11:I2:1044:GLY:H	15:M3:616:LEU:HD13	1.46	0.79
11:I2:1054:ILE:N	17:O3:279:ILE:C	2.28	0.79
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD13	1.56	0.79
23:U1:431:ILE:HG12	31:c2:470:ARG:N	1.98	0.79
24:V1:339:LEU:CD1	31:c1:627:ASP:C	2.49	0.79
26:X2:329:ARG:NE	34:i:475:ILE:CD1	2.35	0.79
28:Z1:557:CYS:O	30:b1:235:LEU:O	1.99	0.79
1:A1:869:ALA:N	6:D3:280:GLN:HB2	1.96	0.79
2:A2:825:ARG:HD2	6:D1:633:LYS:HG3	1.65	0.79
2:A2:980:ARG:CD	6:D1:503:LEU:HB2	2.12	0.79
1:A3:1182:ILE:HG21	3:A6:636:ASN:HA	1.63	0.79
1:A3:1202:GLU:CG	3:A6:91:LEU:N	2.45	0.79
1:A3:1225:PRO:HA	3:A6:547:GLU:HB2	1.63	0.79
1:A3:1238:ILE:O	3:A6:585:ASN:N	1.69	0.79
1:A3:1277:TRP:CE3	3:A6:577:ASP:OD1	2.36	0.79
2:A4:89:LEU:CB	3:A6:406:LEU:CG	2.59	0.79
2:A4:553:ASP:HA	3:A6:435:PRO:HD2	1.64	0.79
2:A4:621:GLN:NE2	3:A6:108:SER:O	2.16	0.79
2:A4:691:LYS:HZ1	3:A6:331:SER:CA	1.96	0.79
2:A4:701:ILE:CB	3:A6:466:ALA:CB	2.44	0.79
2:A4:720:LEU:HA	3:A6:495:ASP:CA	2.12	0.79
2:A4:780:GLU:CG	3:A6:523:ASN:CA	2.61	0.79
2:A4:798:LYS:HD2	3:A6:314:TRP:HE1	1.48	0.79
2:A4:975:GLU:CB	6:D3:501:LEU:HG	1.97	0.79
2:A4:976:LEU:CD2	6:D3:472:PHE:CD2	2.51	0.79
2:A4:1094:ILE:HG12	6:D4:759:GLN:HE21	1.44	0.79
3:A5:147:LEU:C	5:C2:747:PRO:HB3	2.07	0.79
3:A5:1316:VAL:CG2	28:Z2:833:ASP:CB	2.60	0.79
3:A5:1359:LEU:CB	28:Z2:878:HIS:H	1.79	0.79
8:F2:1137:GLN:HB3	17:O4:251:ILE:HD13	1.59	0.79
11:I1:895:ARG:HG2	17:O1:233:THR:N	1.65	0.79
11:I1:916:ALA:CB	15:M1:586:ASP:CB	2.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:928:LEU:HD23	20:R1:154:ALA:O	1.79	0.79
11:I1:947:LEU:C	16:N1:407:ALA:CB	2.56	0.79
11:I1:1035:GLN:O	16:N1:441:PHE:CZ	2.18	0.79
11:I1:1540:LYS:NZ	11:I2:1739:GLU:CB	2.40	0.79
11:I1:1611:PHE:CA	11:I2:1673:VAL:H	1.89	0.79
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG12	1.96	0.79
11:I2:887:GLN:HE22	16:N3:396:ILE:CD1	1.94	0.79
11:I2:894:VAL:HG11	17:O3:237:PRO:O	1.81	0.79
11:I2:932:VAL:HG13	15:M3:612:PRO:HB3	1.64	0.79
11:I2:952:LEU:HD23	15:M3:602:MET:HB3	1.62	0.79
11:I2:978:LYS:CE	20:R3:154:ALA:N	2.46	0.79
11:I2:1040:HIS:CB	16:N3:434:LEU:CD1	2.61	0.79
11:I2:1109:LEU:CD1	16:N3:438:LEU:HD22	2.13	0.79
11:I3:1267:LEU:CD2	26:X1:529:TRP:CE3	2.66	0.79
11:I3:1276:GLN:N	26:X1:522:MET:CB	2.33	0.79
11:I3:1278:ALA:CB	26:X1:520:GLU:N	2.37	0.79
21:S1:680:PRO:C	21:S2:1127:GLN:NE2	2.41	0.79
22:T1:833:ARG:NH2	31:c5:20:PRO:CD	2.46	0.79
23:U1:23:LYS:O	31:c2:483:ASP:OD2	2.00	0.79
23:U1:26:GLN:CD	31:c2:483:ASP:HA	2.08	0.79
24:V2:548:TYR:OH	25:W2:18:ASP:OD2	2.01	0.79
24:V4:548:TYR:OH	25:W4:18:ASP:OD2	2.01	0.79
26:X2:317:PHE:HB3	34:i:400:LYS:HZ3	1.47	0.79
1:A1:870:HIS:H	6:D3:280:GLN:CB	1.96	0.78
1:A1:1224:PRO:CD	2:A2:734:LEU:HD22	2.13	0.78
2:A2:868:GLN:NE2	6:D1:608:ILE:O	2.15	0.78
2:A2:1143:LEU:HD21	3:A5:131:PRO:CG	2.06	0.78
1:A3:1052:THR:HG23	6:D3:816:VAL:HG23	1.64	0.78
1:A3:1202:GLU:HG2	3:A6:91:LEU:HB2	1.64	0.78
1:A3:1240:HIS:NE2	3:A6:118:SER:N	2.31	0.78
2:A4:93:ASP:CB	3:A6:361:ASP:HB2	2.02	0.78
2:A4:827:ILE:HA	6:D3:606:LYS:CB	2.09	0.78
2:A4:886:PHE:O	3:A6:175:GLU:HG2	1.82	0.78
4:B5:344:ALA:HA	5:C2:737:LYS:HD3	1.62	0.78
11:I1:837:MET:CE	17:O1:242:ARG:C	2.51	0.78
11:I1:923:GLY:HA3	15:M1:590:LYS:C	2.06	0.78
11:I1:926:SER:HA	20:R1:156:GLY:N	1.97	0.78
11:I1:957:SER:C	20:R1:168:LEU:HG	2.07	0.78
11:I2:833:PHE:CE1	17:O3:245:GLU:OE2	2.35	0.78
11:I2:1106:LYS:CB	16:N3:440:GLU:CG	2.60	0.78
11:I3:815:ILE:CG2	26:X1:497:ARG:N	2.44	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:813:ILE:O	26:X3:496:THR:CA	2.31	0.78
23:U2:429:ILE:HG21	31:c4:463:HIS:CD2	2.18	0.78
24:V1:339:LEU:CA	31:c1:627:ASP:CB	2.61	0.78
26:X2:197:VAL:CB	34:i:366:PHE:CG	2.40	0.78
26:X2:298:ASP:HB2	34:i:369:VAL:CA	2.13	0.78
28:Z2:534:ASP:OD2	30:b2:183:LEU:CG	2.32	0.78
28:Z4:402:GLY:CA	30:b4:273:LYS:HB2	2.09	0.78
1:A1:1400:SER:OG	2:A2:885:LEU:HD21	1.83	0.78
2:A2:223:THR:HB	6:D1:709:ARG:NH2	1.89	0.78
2:A2:992:TYR:HB3	6:D1:238:ALA:CB	2.13	0.78
1:A3:1056:PHE:H	6:D3:809:ALA:HB2	1.48	0.78
1:A3:1170:ILE:N	3:A6:591:ASP:HA	1.79	0.78
1:A3:1226:LEU:O	3:A6:551:GLN:CG	2.20	0.78
1:A3:1271:ILE:C	3:A6:550:VAL:HB	2.09	0.78
1:A3:1390:LEU:CD1	3:A6:228:GLY:HA3	2.13	0.78
2:A4:648:TYR:CD2	3:A6:503:GLN:CB	2.66	0.78
2:A4:792:VAL:CG2	3:A6:248:VAL:CB	2.50	0.78
2:A4:852:ASP:OD2	3:A6:155:TYR:C	2.26	0.78
3:A5:1026:PRO:CA	11:I5:68:ILE:N	2.45	0.78
3:A6:132:ASP:HB3	6:D3:607:PRO:HD3	1.65	0.78
11:I1:976:ARG:CZ	15:M1:622:VAL:CG2	2.60	0.78
11:I1:984:GLU:C	15:M1:613:ASP:CA	2.55	0.78
11:I1:1540:LYS:CD	11:I2:1739:GLU:HB3	2.12	0.78
11:I2:881:ILE:HG22	17:O3:249:ARG:CZ	2.12	0.78
11:I2:896:PRO:CB	17:O3:233:THR:CA	2.47	0.78
11:I2:979:ALA:O	15:M3:621:ARG:NH1	1.88	0.78
23:U1:140:PRO:O	31:c1:501:GLU:CD	2.26	0.78
23:U1:431:ILE:CD1	31:c2:469:SER:HB3	1.99	0.78
23:U2:405:GLU:HB3	31:c4:544:VAL:HG22	1.63	0.78
23:U2:426:TYR:CD2	31:c4:463:HIS:CE1	2.72	0.78
23:U2:431:ILE:N	31:c4:481:ILE:HD11	1.97	0.78
23:U2:438:GLU:N	31:c4:428:ARG:HH21	1.77	0.78
26:X2:329:ARG:NE	34:i:475:ILE:HD11	1.95	0.78
28:Z3:401:THR:HA	30:b3:252:ALA:C	2.08	0.78
28:Z4:523:ASP:CB	30:b4:238:ASN:CA	1.89	0.78
28:Z4:551:THR:CG2	30:b4:233:TRP:HZ3	1.52	0.78
2:A2:974:PRO:O	6:D1:494:LEU:O	2.01	0.78
1:A3:1204:TRP:CZ2	3:A6:95:TYR:CD2	2.71	0.78
2:A4:81:ALA:CB	3:A6:388:GLU:CB	2.62	0.78
3:A6:483:HIS:O	6:D3:675:ARG:HB2	1.80	0.78
3:A6:1395:LYS:HA	28:Z4:920:SER:H	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1264:ARG:NH2	17:O2:264:ILE:HD13	1.98	0.78
11:I1:797:LEU:HD13	17:O1:245:GLU:N	1.97	0.78
11:I1:938:CYS:CB	15:M1:606:LEU:CD1	1.85	0.78
11:I1:1037:THR:O	15:M1:620:VAL:CA	2.28	0.78
11:I2:877:ILE:HB	17:O3:251:ILE:O	1.81	0.78
11:I2:884:LEU:CD1	15:M3:599:ILE:HD13	2.14	0.78
11:I2:947:LEU:HD22	17:O3:256:TYR:CZ	2.18	0.78
11:I2:962:ILE:HG22	20:R3:166:LEU:CG	2.11	0.78
11:I2:1018:LYS:N	16:N3:413:VAL:H	1.82	0.78
11:I2:1024:PHE:CB	16:N3:406:HIS:CD2	2.64	0.78
11:I4:813:ILE:CA	26:X3:496:THR:HG22	2.13	0.78
21:S4:293:ASN:HB2	21:S4:310:TRP:O	1.81	0.78
26:X2:274:LEU:O	34:i:13:LEU:CD1	2.30	0.78
26:X2:360:PHE:O	34:i:420:TRP:HA	1.82	0.78
27:Y2:41:ASP:HB2	29:a2:231[B]:HIS:CE1	2.18	0.78
28:Z4:534:ASP:OD2	30:b4:183:LEU:CG	2.32	0.78
1:A1:1083:SER:O	6:D1:798:MET:HG2	1.83	0.78
1:A1:1222:ALA:O	2:A2:723:PHE:CE2	2.26	0.78
2:A2:870:HIS:NE2	6:D1:551:PHE:C	2.42	0.78
1:A3:1187:ASN:C	3:A6:723:PHE:CZ	2.61	0.78
1:A3:1235:ILE:O	3:A6:582:ALA:C	2.26	0.78
2:A4:554:GLN:HE21	3:A6:370:PRO:HD2	1.48	0.78
2:A4:889:VAL:CG2	3:A6:174:PRO:CA	2.61	0.78
2:A4:897:ASN:CA	3:A6:177:ILE:O	2.32	0.78
2:A4:918:CYS:SG	4:B6:342:ARG:HD3	2.15	0.78
3:A5:161[A]:ASP:O	5:C2:744:PHE:O	2.01	0.78
3:A5:1029:ILE:CB	11:I5:69:GLY:C	2.51	0.78
3:A5:1395:LYS:HE3	28:Z2:872:TYR:H	1.48	0.78
3:A6:1392:ARG:C	28:Z4:913:ILE:N	2.42	0.78
8:F2:1095:TYR:N	17:O4:244:GLU:OE1	2.07	0.78
9:G2:256:GLN:CD	17:O4:263:GLN:H	1.92	0.78
11:I1:927:HIS:CD2	15:M1:594:LYS:CB	2.66	0.78
11:I1:1109:LEU:CG	17:O1:290:TYR:CE2	2.25	0.78
11:I2:900:ARG:CG	17:O3:232:LYS:CD	2.53	0.78
11:I2:924:ILE:CB	15:M3:597:LYS:H	1.97	0.78
11:I2:1020:ALA:HA	16:N3:405:ALA:O	1.82	0.78
11:I2:1024:PHE:HB2	16:N3:406:HIS:CB	2.13	0.78
11:I2:1109:LEU:CA	17:O3:290:TYR:CZ	2.66	0.78
11:I4:1276:GLN:HG2	26:X3:521:TRP:N	1.98	0.78
21:S1:176:MET:HE1	21:S1:232:LEU:CD1	2.12	0.78
23:U1:434:THR:HB	31:c2:477:GLU:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:303:PHE:CA	34:i:416:VAL:CG1	2.58	0.78
26:X2:308:ASN:HB2	34:i:315:LEU:HD21	1.66	0.78
28:Z2:524:VAL:H	30:b2:238:ASN:CA	1.96	0.78
28:Z2:535:ILE:CG1	30:b2:182:PRO:HG3	2.13	0.78
28:Z2:539:GLU:OE1	30:b2:165:THR:N	2.15	0.78
28:Z3:406:ARG:CG	30:b3:252:ALA:HB1	2.13	0.78
28:Z3:410:ASN:HB3	30:b3:251:ILE:HD12	1.55	0.78
28:Z3:522:ASN:N	30:b3:238:ASN:HB3	1.96	0.78
28:Z4:402:GLY:O	30:b4:273:LYS:HB3	1.82	0.78
28:Z4:410:ASN:HD21	30:b4:252:ALA:HB2	0.91	0.78
2:A2:779:ASP:OD1	6:D1:690:TYR:OH	2.00	0.78
2:A2:967:GLU:HA	6:D1:202:GLN:CD	2.02	0.78
2:A2:978:ASP:H	6:D1:492:VAL:HG12	1.46	0.78
2:A2:1135:ARG:HG3	3:A5:138:LEU:HD11	1.55	0.78
2:A2:1163:TYR:CZ	3:A5:136:GLU:OE2	2.37	0.78
2:A4:551:GLN:HG2	3:A6:106:ALA:O	1.83	0.78
2:A4:795:GLN:CB	3:A6:247:ASP:OD2	2.31	0.78
2:A4:900:THR:HB	3:A6:137:HIS:NE2	1.99	0.78
2:A4:973:GLU:O	6:D3:499:LEU:HG	1.82	0.78
2:A4:986:THR:HB	6:D3:504:LYS:HD3	0.79	0.78
2:A4:987:LYS:HE3	6:D3:555:ARG:HG2	1.63	0.78
3:A5:177:ILE:HG21	5:C2:737:LYS:HA	1.63	0.78
9:G1:266:ASP:CA	16:N2:412:ASN:HA	1.96	0.78
11:I1:797:LEU:CD1	17:O1:245:GLU:HG3	2.11	0.78
11:I1:976:ARG:HB3	20:R1:149:ARG:HB3	0.79	0.78
11:I1:1014:ASN:HB3	16:N1:413:VAL:C	2.08	0.78
11:I2:887:GLN:NE2	16:N3:396:ILE:HD12	1.97	0.78
17:O4:110:LEU:CD2	18:P4:321:ILE:N	1.84	0.78
17:O4:111:TYR:CE2	18:P4:321:ILE:HD13	2.18	0.78
23:U1:24:ILE:C	31:c2:563:ARG:HG2	2.09	0.78
23:U1:431:ILE:HD11	31:c2:469:SER:CA	2.14	0.78
23:U2:38:ILE:CA	31:c4:559:ILE:HG21	2.08	0.78
23:U2:392:LEU:HD23	31:c4:548:VAL:HG12	1.66	0.78
23:U2:394:ILE:HG22	31:c4:535:VAL:CG2	2.03	0.78
26:X2:194:GLY:N	34:i:439:GLN:OE1	2.17	0.78
26:X2:208:LEU:CD2	34:i:445:GLN:NE2	2.47	0.78
28:Z2:113:VAL:HG23	28:Z2:114:GLU:H	1.49	0.78
28:Z2:524:VAL:H	30:b2:238:ASN:HB2	0.71	0.78
28:Z3:411:LEU:HG	30:b3:251:ILE:HG12	1.64	0.78
28:Z3:531:LYS:HZ3	30:b3:166:LEU:CB	1.96	0.78
1:A1:871:ASN:HA	6:D3:279:HIS:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1200:ARG:HB3	2:A2:727:ASN:O	1.82	0.78
2:A2:1155:ASN:CB	3:A5:177:ILE:HG13	2.12	0.78
2:A2:1156:ASP:C	3:A5:176:LEU:CA	2.49	0.78
1:A3:1223:GLU:C	3:A6:496:THR:HG23	2.08	0.78
1:A3:1238:ILE:HG23	3:A6:586:CYS:CB	2.10	0.78
1:A3:1268:ASP:N	3:A6:553:ASP:N	2.31	0.78
1:A3:1271:ILE:O	3:A6:550:VAL:HG21	1.83	0.78
1:A3:1271:ILE:HG12	3:A6:554:GLN:H	1.47	0.78
1:A3:1311:ARG:NE	3:A6:715:GLU:CG	2.46	0.78
2:A4:86:ASN:CB	3:A6:393:HIS:CB	2.53	0.78
2:A4:90:GLN:CD	3:A6:427:MET:CG	2.57	0.78
3:A5:1392:ARG:HH11	28:Z2:866:GLU:C	1.90	0.78
3:A5:1411:ARG:HH21	26:X2:744:MET:C	1.92	0.78
3:A6:442:ARG:NH2	6:D3:740:GLU:O	2.16	0.78
9:G1:263:MET:HE1	16:N2:408:MET:HA	1.65	0.78
11:I1:874:LEU:CD2	17:O1:252:VAL:HA	2.11	0.78
11:I2:797:LEU:CD1	17:O3:245:GLU:CA	2.32	0.78
11:I2:980:ILE:HD13	15:M3:622:VAL:HG23	0.79	0.78
11:I2:1039:ALA:HB3	20:R3:170:LEU:HD23	1.63	0.78
17:O3:162:LYS:HG3	18:P3:315:GLU:HB3	1.64	0.78
21:S1:671:ALA:CA	21:S2:1146:ALA:N	2.47	0.78
22:T1:833:ARG:HD2	31:c5:21:SER:HB3	1.66	0.78
23:U2:82:LEU:HD22	31:c4:550:LYS:HZ2	1.48	0.78
23:U2:398:ILE:HB	31:c4:555:VAL:HG22	1.66	0.78
26:X1:155:LEU:O	26:X1:159:ILE:HG13	1.82	0.78
26:X2:283:ASP:C	34:i:493:PRO:HD2	2.09	0.78
26:X2:324:ILE:CG1	34:i:476:LEU:CD1	2.54	0.78
26:X2:332:ILE:HB	34:i:476:LEU:CA	2.11	0.78
28:Z2:402:GLY:O	30:b2:273:LYS:HB3	1.82	0.78
28:Z3:531:LYS:HZ1	30:b3:166:LEU:HB3	1.45	0.78
1:A1:1393:THR:CA	2:A2:851:ASP:OD1	2.31	0.78
2:A2:827:ILE:C	2:A2:863:GLN:HB3	1.81	0.78
2:A2:868:GLN:CB	6:D1:570:VAL:CG1	2.59	0.78
2:A2:985:ALA:N	6:D1:498:GLU:HA	1.99	0.78
2:A2:1151:THR:CG2	5:C2:734:VAL:CB	2.61	0.78
1:A3:1228:TYR:CB	3:A6:574:ARG:NH2	2.47	0.78
2:A4:92:ASP:HB3	3:A6:365:MET:HE3	1.66	0.78
2:A4:676:LEU:C	3:A6:98:LEU:HD12	2.09	0.78
2:A4:770:GLY:HA3	3:A6:469:PHE:HB2	0.79	0.78
2:A4:801:THR:OG1	3:A6:381:LEU:N	2.16	0.78
2:A4:893:LEU:HD22	3:A6:176:LEU:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:160:ILE:CD1	5:C2:743:LEU:HG	2.14	0.78
3:A5:1101:GLN:NE2	11:I5:33:THR:HG21	1.96	0.78
6:D5:381:ASN:HD21	31:c1:311:ALA:CB	1.96	0.78
8:F1:1094:GLY:C	17:O2:237:PRO:HA	2.08	0.78
8:F1:1264:ARG:NH1	17:O2:263:GLN:C	2.30	0.78
11:I1:928:LEU:C	15:M1:601:ASP:OD1	2.24	0.78
11:I1:984:GLU:HB2	15:M1:618:GLN:NE2	1.95	0.78
11:I1:1002:ALA:HB3	16:N1:414:ALA:HA	1.66	0.78
11:I1:1114:VAL:HG11	16:N1:432:TYR:CZ	2.19	0.78
11:I2:837:MET:HE3	17:O3:243:LEU:CG	2.12	0.78
11:I2:958:THR:OG1	16:N3:399:HIS:HD2	1.65	0.78
11:I2:1038:ILE:CD1	15:M3:620:VAL:HB	2.12	0.78
11:I2:1609:GLY:CA	12:J1:295:TYR:CE1	2.65	0.78
11:I5:1282:PHE:CZ	29:a2:23[B]:PRO:HG2	2.18	0.78
22:T1:816:LYS:CE	31:c5:85:ARG:NH2	2.41	0.78
24:V1:346:THR:HG21	31:c1:526:GLU:HB3	1.64	0.78
28:Z1:544:MET:HE1	30:b1:181:TYR:CA	2.05	0.78
2:A2:879:LEU:HG	6:D1:567:LEU:HD11	0.84	0.78
1:A3:1233:GLN:OE1	2:A4:726:ALA:HB1	1.83	0.78
1:A3:1233:GLN:O	3:A6:578:ILE:O	1.91	0.78
1:A3:1242:THR:HG21	3:A6:587:VAL:HB	0.78	0.78
1:A3:1265:ASN:H	3:A6:716:ASN:CG	1.89	0.78
1:A3:1269:ALA:C	3:A6:554:GLN:CA	2.52	0.78
2:A4:679:TYR:CE1	3:A6:109:ASP:HB2	2.18	0.78
2:A4:681:THR:CB	3:A6:431:PHE:HD1	1.96	0.78
2:A4:791:ALA:H	3:A6:187:THR:CB	1.96	0.78
2:A4:870:HIS:HB2	6:D3:566:PHE:HE1	1.48	0.78
2:A4:874:VAL:O	6:D3:567:LEU:HB3	1.81	0.78
2:A4:897:ASN:HA	3:A6:165:PHE:CA	2.07	0.78
3:A5:1027:HIS:CE1	11:I5:65:LYS:C	2.62	0.78
3:A6:1395:LYS:CA	28:Z4:920:SER:N	2.46	0.78
6:D7:537:ARG:NH2	11:I3:173:ARG:HH22	1.81	0.78
9:G1:257:THR:HB	17:O2:250:LEU:HA	1.63	0.78
11:I1:890:TYR:OH	17:O1:234:LEU:O	2.02	0.78
11:I1:899:LEU:HD11	17:O1:230:ILE:O	1.84	0.78
11:I1:965:ALA:HB3	20:R1:165:SER:H	1.49	0.78
11:I1:1037:THR:C	20:R1:169:GLY:HA2	2.09	0.78
11:I2:1019:LEU:N	16:N3:409:ALA:O	2.17	0.78
11:I2:1046:HIS:CA	15:M3:619:ILE:HD11	1.98	0.78
11:I2:1054:ILE:HA	17:O3:280:GLU:CA	2.13	0.78
11:I3:1267:LEU:HA	26:X1:529:TRP:HA	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1275:SER:HB3	26:X1:522:MET:O	1.83	0.78
11:I4:813:ILE:O	26:X3:496:THR:HG22	1.82	0.78
11:I5:1277:LEU:C	26:X2:517:ASP:OD1	2.27	0.78
17:O1:103:VAL:CG1	18:P1:326:GLN:NE2	2.39	0.78
17:O4:112:GLY:HA2	18:P1:278:ASN:HB2	1.62	0.78
23:U1:35:PRO:CB	31:c2:556:GLN:NE2	2.29	0.78
23:U1:402:GLY:CA	31:c2:551:LEU:H	1.93	0.78
23:U2:25:GLU:O	31:c4:490:GLY:HA3	1.84	0.78
23:U2:38:ILE:O	31:c4:559:ILE:HG21	1.82	0.78
23:U2:396:LEU:HD12	31:c4:552:ARG:N	1.94	0.78
24:V1:287:ASN:OD1	31:c1:11:TYR:CE1	2.35	0.78
24:V2:416:ASP:HA	24:V2:443:THR:HG21	1.66	0.78
26:X2:315:GLN:HB2	34:i:399:PRO:C	2.07	0.78
26:X2:363:TYR:CA	34:i:418:LEU:O	2.31	0.78
28:Z1:401:THR:C	30:b1:254:SER:OG	2.25	0.78
28:Z1:406:ARG:CG	30:b1:252:ALA:HB1	2.13	0.78
28:Z4:406:ARG:CG	30:b4:252:ALA:HB1	2.13	0.78
28:Z4:407:GLY:CA	30:b4:251:ILE:HG13	2.14	0.78
1:A1:1223:GLU:HG2	2:A2:724:LEU:HB3	1.66	0.78
2:A2:1155:ASN:CB	3:A5:175:GLU:O	2.13	0.78
1:A3:1259:CYS:HB3	3:A6:624:ASP:OD1	1.82	0.78
1:A3:1321:MET:HE3	3:A6:571:ARG:HH22	1.01	0.78
2:A4:672:ARG:HB3	3:A6:96:PRO:HA	1.66	0.78
2:A4:711:VAL:N	3:A6:462:LEU:HD23	1.99	0.78
2:A4:712:THR:HG23	3:A6:461:ALA:CB	2.05	0.78
2:A4:908:LEU:O	6:D3:555:ARG:CD	2.31	0.78
2:A4:934:TRP:CZ3	4:B6:348:PRO:HG3	2.19	0.78
3:A5:157:TRP:CH2	5:C2:747:PRO:HA	2.19	0.78
3:A5:1365:VAL:CG2	28:Z2:838:GLN:HA	2.13	0.78
3:A6:1410:ALA:N	26:X4:686:ASP:N	2.26	0.78
11:I1:849:LEU:HD12	17:O1:247:TRP:CD2	2.17	0.78
11:I1:946:THR:HA	17:O1:257:ALA:HA	0.83	0.78
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG3	1.62	0.78
11:I2:888:GLU:HG2	16:N3:390:GLU:O	1.84	0.78
11:I2:898:VAL:CG2	17:O3:237:PRO:N	2.47	0.78
11:I2:1021:ILE:HG13	16:N3:410:MET:HB2	1.64	0.78
11:I2:1030:ARG:CB	20:R3:172:ASP:O	2.31	0.78
11:I2:1041:GLN:HE21	15:M3:614:ASP:CG	1.92	0.78
11:I2:1103:LEU:HB3	20:R3:174:ARG:HB3	1.64	0.78
11:I4:1282:PHE:CZ	29:a3:23[A]:PRO:C	2.33	0.78
23:U1:314:ILE:HG22	23:U1:315:LEU:HG	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:394:ILE:HG23	31:c2:477:GLU:HG3	1.64	0.78
23:U2:41:GLU:HB2	31:c4:559:ILE:HG21	1.65	0.78
23:U2:439:SER:HB3	31:c4:428:ARG:HD2	1.64	0.78
26:X2:192:LEU:CD2	34:i:442:SER:OG	2.32	0.78
28:Z1:557:CYS:HB3	30:b1:210:ARG:HH11	1.01	0.78
28:Z2:544:MET:HE1	30:b2:181:TYR:HA	1.65	0.78
1:A1:874:VAL:HB	6:D3:276:GLY:C	2.08	0.78
2:A2:1132:PRO:O	3:A5:138:LEU:HD22	1.83	0.78
2:A2:1151:THR:HG23	5:C2:734:VAL:C	2.09	0.78
1:A3:1083:SER:CB	6:D3:798:MET:HE2	1.28	0.78
1:A3:1169:LEU:C	3:A6:590:SER:C	2.51	0.78
1:A3:1229:VAL:CG1	3:A6:574:ARG:C	2.52	0.78
1:A3:1248:ILE:H	3:A6:587:VAL:HG13	1.47	0.78
2:A4:677:ALA:N	3:A6:98:LEU:HD12	1.99	0.78
2:A4:692:VAL:CG2	3:A6:380:ALA:HB2	2.14	0.78
2:A4:768:SER:HA	3:A6:477:PHE:N	1.97	0.78
2:A4:770:GLY:C	3:A6:477:PHE:HB2	2.09	0.78
2:A4:870:HIS:CG	6:D3:566:PHE:HD1	1.94	0.78
3:A5:147:LEU:H	5:C2:747:PRO:HG3	1.48	0.78
3:A5:1053:ARG:HE	11:I5:99:ARG:HG3	1.49	0.78
11:I1:882:LYS:HB2	17:O1:245:GLU:CA	2.14	0.78
11:I1:1109:LEU:HG	16:N1:438:LEU:CA	2.10	0.78
11:I2:895:ARG:H	17:O3:239:GLN:HB2	1.49	0.78
11:I2:895:ARG:NH1	16:N3:386:MET:HE2	1.99	0.78
11:I2:966:TRP:O	20:R3:153:GLN:CB	2.32	0.78
11:I2:1035:GLN:N	16:N3:441:PHE:CZ	2.35	0.78
11:I3:1276:GLN:HE21	26:X1:534:ILE:C	1.92	0.78
22:T1:721:ALA:HB2	31:c5:34:LYS:NZ	1.99	0.78
23:U2:442:LEU:HB2	31:c4:462:HIS:NE2	1.98	0.78
28:Z1:438:GLU:CD	30:b1:333:HIS:CE1	2.62	0.78
28:Z2:402:GLY:CA	30:b2:273:LYS:HB2	2.09	0.78
28:Z3:544:MET:HE1	30:b3:181:TYR:HA	1.65	0.78
1:A1:785:ILE:HD11	1:A1:825:ARG:HG2	1.67	0.77
1:A1:1224:PRO:HG3	2:A2:731:ILE:CD1	2.14	0.77
1:A1:1225:PRO:O	2:A2:728:LYS:CG	2.32	0.77
2:A2:968:SER:OG	6:D1:200:HIS:HB2	1.84	0.77
1:A3:1161:ALA:C	3:A6:647:GLU:C	2.34	0.77
1:A3:1161:ALA:CA	3:A6:647:GLU:O	2.32	0.77
2:A4:86:ASN:N	3:A6:393:HIS:N	2.32	0.77
2:A4:227:SER:HB3	6:D3:709:ARG:HA	1.65	0.77
2:A4:551:GLN:HG2	3:A6:106:ALA:C	2.08	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:576:VAL:HG12	3:A6:509:LYS:HD2	1.65	0.77
2:A4:729:SER:HB3	3:A6:678:LEU:HD21	0.88	0.77
2:A4:864:ARG:CB	6:D3:608:ILE:H	1.97	0.77
2:A4:888:GLN:C	3:A6:171:HIS:CD2	2.61	0.77
8:F1:1091:SER:OG	17:O2:238:ALA:HA	1.84	0.77
11:I1:883:ALA:CB	17:O1:246:LEU:HB3	1.80	0.77
11:I1:1068:HIS:CE1	16:N1:431:VAL:CB	2.62	0.77
11:I1:1104:LEU:CG	20:R1:174:ARG:CD	2.62	0.77
11:I2:879:VAL:C	17:O3:250:LEU:N	2.41	0.77
11:I2:1069:SER:H	16:N3:428:ASP:H	0.79	0.77
23:U2:413:ILE:HG21	31:c4:539:ILE:HG22	1.66	0.77
23:U2:432:TYR:CE1	31:c4:464:LEU:HD13	1.90	0.77
26:X2:284:ALA:O	34:i:493:PRO:CD	2.31	0.77
27:Y1:41:ASP:CA	29:a1:230:GLN:OE1	2.28	0.77
28:Z3:523:ASP:O	30:b3:208:ASN:OD1	1.81	0.77
2:A2:874:VAL:CG1	6:D1:611:LYS:HB3	2.14	0.77
2:A2:1153:LEU:HG	3:A5:173:ASN:HA	1.60	0.77
2:A2:1154:PHE:CZ	4:B5:342:ARG:CD	2.58	0.77
1:A3:1332:ARG:NE	6:D3:636:ASP:OD1	2.12	0.77
2:A4:779:ASP:CG	3:A6:487:ASP:H	1.91	0.77
2:A4:789:LEU:HD21	3:A6:146:LYS:CB	2.04	0.77
2:A4:818:LEU:O	3:A6:147:LEU:HB3	1.84	0.77
2:A4:864:ARG:CB	6:D3:607:PRO:N	2.39	0.77
2:A4:875:LEU:O	6:D3:567:LEU:CD1	2.31	0.77
2:A4:917:LEU:CB	4:B6:342:ARG:HD2	2.15	0.77
2:A4:951:GLU:OE2	3:A6:233:THR:O	2.01	0.77
3:A5:996:ASN:CG	11:I5:55:ASP:C	2.52	0.77
3:A5:1029:ILE:HG23	11:I5:70:GLU:CA	2.10	0.77
3:A5:1374:ALA:HB1	28:Z2:823:ALA:HB3	0.78	0.77
3:A5:1415:PHE:C	28:Z2:962:LYS:N	2.41	0.77
5:C1:732:LYS:CD	11:I1:1228:GLU:HG3	2.13	0.77
8:F2:1088:GLU:CG	17:O4:248:SER:O	2.14	0.77
11:I1:913:ALA:N	15:M1:584:GLN:NE2	2.28	0.77
11:I1:922:ASP:HA	20:R1:163:LEU:HB3	1.66	0.77
11:I1:1032:THR:OG1	15:M1:631:GLN:NE2	2.17	0.77
11:I1:1046:HIS:CG	17:O1:280:GLU:O	2.37	0.77
11:I2:879:VAL:O	17:O3:247:TRP:N	2.07	0.77
11:I2:1107:SER:OG	16:N3:436:ALA:O	1.89	0.77
11:I2:1186:PRO:CD	17:O4:225:GLN:NE2	2.47	0.77
23:U1:402:GLY:CA	31:c2:548:VAL:O	2.20	0.77
26:X2:308:ASN:HB3	34:i:396:HIS:O	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:374:TYR:HE1	34:i:422:HIS:O	1.10	0.77
27:Y2:41:ASP:CA	29:a2:230:GLN:OE1	2.28	0.77
28:Z2:401:THR:HA	30:b2:252:ALA:C	2.08	0.77
28:Z3:534:ASP:OD2	30:b3:183:LEU:CG	2.32	0.77
28:Z4:544:MET:HE1	30:b4:181:TYR:CA	2.05	0.77
28:Z4:561:GLN:CB	30:b4:236:THR:CA	2.62	0.77
1:A1:1201:ARG:CD	2:A2:734:LEU:CG	2.62	0.77
2:A2:225:THR:HG23	6:D1:706:HIS:HB3	1.65	0.77
2:A2:868:GLN:HB3	6:D1:570:VAL:HG12	1.64	0.77
2:A2:1126:VAL:HG23	3:A5:135:PHE:CG	2.19	0.77
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG22	1.56	0.77
1:A3:1198:GLU:HB3	3:A6:678:LEU:C	2.09	0.77
1:A3:1228:TYR:HA	3:A6:576:VAL:CG1	2.14	0.77
1:A3:1254:LEU:C	3:A6:638:GLU:OE2	2.26	0.77
2:A4:614:ALA:HB1	3:A6:502:THR:CG2	1.90	0.77
2:A4:683:LEU:O	3:A6:403:ARG:NE	2.16	0.77
2:A4:688:TRP:HE3	3:A6:395:MET:CE	1.77	0.77
2:A4:754:HIS:H	3:A6:540:GLN:NE2	1.81	0.77
2:A4:800:LEU:HA	3:A6:317:GLY:HA3	1.65	0.77
2:A4:801:THR:CB	3:A6:381:LEU:N	2.47	0.77
2:A4:868:GLN:NE2	6:D3:608:ILE:CB	2.46	0.77
2:A4:897:ASN:N	3:A6:177:ILE:C	2.43	0.77
2:A4:980:ARG:HA	6:D3:473:GLU:OE2	1.29	0.77
3:A5:1033:GLN:HE22	11:I5:71:GLU:HG2	1.49	0.77
3:A6:442:ARG:NE	6:D3:692:LEU:HD23	1.99	0.77
8:F1:1091:SER:CB	17:O2:241:SER:CA	1.97	0.77
11:I1:923:GLY:HA3	15:M1:591:ASP:N	2.00	0.77
11:I1:987:GLY:N	15:M1:613:ASP:CA	2.21	0.77
11:I2:890:TYR:HB2	17:O3:242:ARG:CB	2.14	0.77
11:I2:917:TYR:N	15:M3:585:LEU:O	2.17	0.77
11:I2:925:LEU:HD13	20:R3:156:GLY:CA	2.10	0.77
11:I2:936:LYS:HE3	15:M3:612:PRO:HG3	1.66	0.77
11:I2:1038:ILE:HD13	15:M3:617:THR:O	1.83	0.77
23:U1:401:PRO:CB	31:c2:551:LEU:CA	2.62	0.77
23:U2:15:PHE:CE1	31:c4:470:ARG:HD2	2.19	0.77
23:U2:314:ILE:HG22	23:U2:315:LEU:HG	1.63	0.77
23:U2:400:ASN:ND2	31:c4:550:LYS:HZ1	1.81	0.77
24:V1:548:TYR:OH	25:W1:18:ASP:OD2	2.01	0.77
26:X2:192:LEU:CD1	34:i:442:SER:N	2.48	0.77
26:X2:332:ILE:HG22	34:i:477:GLY:CA	2.13	0.77
28:Z2:544:MET:HE1	30:b2:181:TYR:CA	2.05	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:407:GLY:CA	30:b3:251:ILE:HG13	2.14	0.77
1:A1:1332:ARG:O	6:D1:637:LYS:HD3	1.84	0.77
1:A3:1056:PHE:HE1	6:D3:812:VAL:H	1.31	0.77
1:A3:1187:ASN:OD1	3:A6:618:ALA:C	2.27	0.77
2:A4:574:ARG:HH21	3:A6:456:ASP:N	1.82	0.77
2:A4:615:LEU:CD2	3:A6:499:ILE:CD1	2.62	0.77
2:A4:623:SER:CB	3:A6:453:SER:HB3	2.11	0.77
2:A4:720:LEU:HB3	3:A6:493:ALA:O	1.79	0.77
2:A4:802:TYR:CD2	3:A6:397:LEU:HB3	2.20	0.77
2:A4:822:ILE:CG2	3:A6:147:LEU:HD12	2.13	0.77
2:A4:857:LYS:HZ3	3:A6:129:ASN:CG	1.91	0.77
2:A4:880:ALA:HB1	6:D3:562:GLY:O	1.83	0.77
2:A4:1019:ARG:HH12	6:D3:238:ALA:C	1.93	0.77
3:A5:220:VAL:HA	5:C2:738:ASP:HB3	1.66	0.77
3:A5:1365:VAL:HG22	28:Z2:841:ALA:HB3	1.67	0.77
3:A5:1416:ARG:C	28:Z2:963:LYS:CA	2.57	0.77
8:F1:1205:TRP:NE1	17:O2:251:ILE:CG2	2.25	0.77
11:I1:947:LEU:O	17:O1:253:LEU:HD22	1.83	0.77
11:I1:976:ARG:N	20:R1:149:ARG:CB	2.48	0.77
11:I1:1013:GLU:O	16:N1:412:ASN:N	2.17	0.77
11:I2:946:THR:C	17:O3:257:ALA:HA	2.09	0.77
11:I2:976:ARG:CZ	20:R3:147:LEU:N	2.40	0.77
11:I2:1049:LEU:HD12	15:M3:626:HIS:NE2	1.99	0.77
11:I2:1052:LEU:HD13	16:N3:438:LEU:HD21	1.65	0.77
23:U2:39:ILE:H	31:c4:556:GLN:CA	1.94	0.77
23:U2:75:TRP:NE1	31:c4:475:ALA:CB	2.48	0.77
23:U2:404:VAL:HG12	31:c4:543:ALA:HA	1.63	0.77
26:X2:277:THR:O	34:i:13:LEU:HG	1.84	0.77
28:Z2:534:ASP:N	30:b2:164:CYS:CB	2.48	0.77
28:Z2:557:CYS:O	30:b2:235:LEU:O	1.99	0.77
28:Z4:535:ILE:CG1	30:b4:182:PRO:HG3	2.14	0.77
2:A2:1125:LEU:HD23	3:A5:136:GLU:HB2	1.65	0.77
2:A2:1130:ARG:C	3:A5:141:GLY:HA2	2.10	0.77
1:A3:1130:ARG:HH21	3:A6:651:GLN:CA	1.93	0.77
2:A4:689:LYS:HG2	3:A6:396:ALA:HB2	0.79	0.77
2:A4:793:SER:CB	3:A6:146:LYS:HD2	2.01	0.77
2:A4:818:LEU:O	3:A6:526:ILE:CD1	2.32	0.77
2:A4:825:ARG:NH2	3:A6:564:ASN:CB	2.47	0.77
3:A5:220:VAL:HG13	5:C2:738:ASP:HB3	1.66	0.77
6:D7:531:LEU:HA	11:I3:181:GLN:HB3	1.65	0.77
11:I1:922:ASP:O	15:M1:589:GLY:O	2.01	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:942:HIS:O	17:O1:260:LEU:CB	2.31	0.77
11:I1:1026:TYR:C	20:R1:172:ASP:HA	2.08	0.77
11:I1:1043:LEU:HD12	20:R1:170:LEU:HD22	1.65	0.77
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD11	1.65	0.77
11:I1:1738:TYR:O	11:I2:1603:ARG:HB3	1.84	0.77
11:I2:875:ARG:O	17:O3:251:ILE:CB	2.27	0.77
11:I2:896:PRO:CD	17:O3:233:THR:HA	2.14	0.77
11:I2:945:LEU:CD1	17:O3:254:ARG:O	2.33	0.77
11:I2:945:LEU:HB2	17:O3:255:GLY:O	1.84	0.77
11:I2:952:LEU:HD12	16:N3:400:LEU:CD2	2.14	0.77
11:I2:998:ALA:HB2	17:O3:267:ALA:CB	2.13	0.77
11:I2:1051:LYS:NZ	17:O3:289:ASP:OD1	2.17	0.77
11:I3:1277:LEU:HG	26:X1:522:MET:CB	2.15	0.77
17:O4:107:THR:C	18:P4:318:PRO:HG3	2.08	0.77
23:U1:23:LYS:HG3	31:c2:479:ILE:CA	2.04	0.77
23:U2:435:PHE:HA	31:c4:536:CYS:CB	2.14	0.77
24:V1:339:LEU:CD2	31:c1:627:ASP:HA	2.15	0.77
28:Z1:534:ASP:N	30:b1:164:CYS:CB	2.48	0.77
28:Z1:561:GLN:HG2	30:b1:235:LEU:HD23	1.66	0.77
28:Z2:561:GLN:CB	30:b2:236:THR:CA	2.62	0.77
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB1	1.66	0.77
2:A2:779:ASP:OD2	6:D1:680:SER:HB2	1.83	0.77
2:A2:908:LEU:CA	6:D1:601:PHE:C	2.41	0.77
2:A2:974:PRO:HD2	6:D1:205:LEU:HD21	1.63	0.77
1:A3:1221:ILE:CD1	2:A4:641:ALA:C	2.55	0.77
1:A3:1226:LEU:HD22	3:A6:549:ALA:C	2.05	0.77
1:A3:1271:ILE:HG13	3:A6:550:VAL:HB	1.65	0.77
1:A3:1332:ARG:CD	6:D3:636:ASP:HB3	2.14	0.77
2:A4:711:VAL:C	3:A6:462:LEU:HD21	2.09	0.77
2:A4:769:GLU:C	3:A6:477:PHE:CB	2.53	0.77
2:A4:775:LEU:CG	3:A6:479:VAL:CA	2.53	0.77
2:A4:802:TYR:CG	3:A6:397:LEU:HB3	2.20	0.77
2:A4:915:ILE:C	4:B6:342:ARG:NH1	2.43	0.77
2:A4:1151:THR:HG23	5:C4:734:VAL:C	2.10	0.77
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD11	1.66	0.77
3:A5:1365:VAL:HA	28:Z2:841:ALA:C	2.03	0.77
11:I1:841:PHE:CG	17:O1:243:LEU:HD11	2.17	0.77
11:I1:978:LYS:C	15:M1:621:ARG:HD3	2.09	0.77
11:I1:1017:VAL:CG1	17:O1:260:LEU:HD21	2.13	0.77
11:I1:1019:LEU:O	16:N1:409:ALA:HB2	1.79	0.77
11:I2:840:LEU:HB3	17:O3:247:TRP:HD1	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:841:PHE:CE2	15:M3:588:MET:HE2	2.19	0.77
11:I2:921:GLU:HA	15:M3:592:LEU:O	1.85	0.77
11:I2:1043:LEU:CD1	16:N3:430:ARG:O	2.31	0.77
23:U1:405:GLU:CA	31:c2:548:VAL:CG2	2.61	0.77
23:U2:394:ILE:HD12	31:c4:539:ILE:HG12	0.77	0.77
23:U2:431:ILE:HG12	31:c4:481:ILE:N	1.99	0.77
23:U2:433:ALA:C	31:c4:461:PHE:CD1	2.62	0.77
28:Z1:401:THR:HA	30:b1:252:ALA:C	2.08	0.77
28:Z1:438:GLU:HG3	30:b1:333:HIS:CE1	2.20	0.77
28:Z4:524:VAL:HG12	30:b4:236:THR:CG2	2.12	0.77
1:A1:1393:THR:OG1	2:A2:851:ASP:OD1	2.03	0.77
2:A2:1160:GLN:CD	3:A5:178:GLY:HA2	2.09	0.77
1:A3:1091:VAL:HG11	6:D3:807:THR:HB	1.66	0.77
1:A3:1226:LEU:HD13	3:A6:550:VAL:C	2.03	0.77
1:A3:1332:ARG:O	6:D3:637:LYS:CG	2.33	0.77
2:A4:607:ARG:O	3:A6:506:SER:N	2.18	0.77
2:A4:670:SER:O	3:A6:100:SER:OG	2.02	0.77
2:A4:889:VAL:HG11	3:A6:171:HIS:HB2	1.45	0.77
2:A4:889:VAL:CG2	3:A6:175:GLU:H	1.96	0.77
3:A5:1406:GLY:N	28:Z2:918:PHE:CA	2.44	0.77
3:A5:1416:ARG:HD3	28:Z2:953:LEU:O	1.84	0.77
9:G2:256:GLN:CD	17:O4:262:ASP:N	2.42	0.77
11:I1:935:GLY:HA3	15:M1:604:ASN:C	1.96	0.77
11:I2:890:TYR:HB2	17:O3:242:ARG:HB2	1.64	0.77
11:I2:981:VAL:H	20:R3:147:LEU:CG	1.93	0.77
22:T1:736:LEU:CD1	31:c5:19:THR:CG2	2.61	0.77
23:U2:398:ILE:HD11	31:c4:535:VAL:HB	0.78	0.77
23:U2:398:ILE:HG13	31:c4:531:TRP:O	1.84	0.77
24:V1:287:ASN:HA	31:c1:11:TYR:OH	1.84	0.77
27:Y4:41:ASP:HB2	29:a4:231[B]:HIS:CE1	2.18	0.77
28:Z1:534:ASP:OD2	30:b1:183:LEU:CG	2.32	0.77
28:Z2:531:LYS:HZ1	30:b2:166:LEU:HB3	1.46	0.77
28:Z4:544:MET:HE1	30:b4:181:TYR:HA	1.65	0.77
2:A2:904:GLN:CB	6:D1:603:SER:H	1.98	0.77
1:A3:1049:PHE:C	6:D3:816:VAL:HG21	2.09	0.77
1:A3:1188:ASN:C	3:A6:645:PHE:HB3	2.08	0.77
1:A3:1188:ASN:O	3:A6:645:PHE:CD2	2.37	0.77
1:A3:1201:ARG:C	3:A6:546:ASN:HD21	1.92	0.77
1:A3:1281:LEU:HD13	3:A6:577:ASP:CA	2.14	0.77
2:A4:85:VAL:HG11	3:A6:395:MET:CB	2.14	0.77
2:A4:552:PHE:CE1	3:A6:109:ASP:CG	2.61	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:555:VAL:HG21	3:A6:437:ARG:NH2	1.94	0.77
2:A4:574:ARG:HH21	3:A6:455:LEU:CA	1.92	0.77
2:A4:674:ASP:HA	3:A6:99:ASP:CA	1.86	0.77
2:A4:772:SER:HA	3:A6:489:LEU:HG	0.78	0.77
2:A4:802:TYR:CZ	3:A6:397:LEU:CD2	2.64	0.77
2:A4:898:LEU:HD23	4:B6:343:LYS:C	2.10	0.77
2:A4:910:TYR:CE1	6:D3:564:ASN:ND2	2.53	0.77
3:A5:220:VAL:HG11	5:C2:739:MET:CG	2.14	0.77
3:A5:1069:SER:O	3:A5:1078:ARG:NH1	2.16	0.77
3:A6:520:GLU:C	6:D3:639:LEU:HD11	2.09	0.77
6:D7:529:VAL:N	11:I3:181:GLN:HE21	1.80	0.77
8:F1:1203:TRP:CZ2	17:O2:248:SER:C	2.63	0.77
11:I1:800:PHE:CZ	17:O1:238:ALA:HB2	2.19	0.77
11:I1:1029:LEU:CA	20:R1:171:ALA:C	2.54	0.77
11:I1:1543:LEU:O	12:J2:300:ILE:CB	2.27	0.77
11:I1:1607:GLN:CB	12:J2:298:PHE:CE1	2.65	0.77
11:I1:1670:GLY:HA2	11:I2:1639:LEU:HD22	1.67	0.77
11:I2:837:MET:HE3	17:O3:243:LEU:CB	1.92	0.77
11:I2:928:LEU:HD13	20:R3:151:LYS:CE	2.12	0.77
11:I2:942:HIS:H	17:O3:263:GLN:N	1.83	0.77
11:I2:976:ARG:NH2	20:R3:143:PHE:CG	2.53	0.77
11:I2:1106:LYS:CB	16:N3:440:GLU:CD	2.48	0.77
11:I3:777:SER:O	29:a2:40[A]:GLU:CD	2.27	0.77
23:U1:395:CYS:C	31:c2:552:ARG:NH2	2.43	0.77
23:U1:405:GLU:HA	31:c2:545:PRO:HA	1.67	0.77
23:U2:83:VAL:CB	31:c4:557:HIS:CE1	2.26	0.77
24:V2:682:ALA:HB2	31:c2:51:THR:O	1.85	0.77
26:X2:277:THR:C	34:i:13:LEU:CG	2.58	0.77
26:X2:297:LYS:CG	34:i:447:CYS:O	2.33	0.77
26:X2:309:LEU:O	34:i:398:ASP:HA	1.85	0.77
28:Z2:561:GLN:CG	30:b2:236:THR:N	2.48	0.77
28:Z3:113:VAL:HG23	28:Z3:114:GLU:H	1.49	0.77
28:Z4:113:VAL:HG23	28:Z4:114:GLU:H	1.49	0.77
1:A1:1083:SER:OG	6:D1:798:MET:SD	2.41	0.77
1:A1:1204:TRP:CE3	2:A2:757:LEU:HD13	2.20	0.77
2:A2:781:ARG:HD3	6:D1:673:ARG:HH11	1.48	0.77
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD11	1.66	0.77
1:A3:1228:TYR:HB2	3:A6:576:VAL:HG21	1.67	0.77
1:A3:1311:ARG:HD2	3:A6:715:GLU:CD	2.10	0.77
2:A4:643:ALA:HA	3:A6:501:VAL:HG12	1.66	0.77
2:A4:692:VAL:HG13	3:A6:466:ALA:C	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:701:ILE:HG12	3:A6:465:SER:C	2.10	0.77
2:A4:777:LEU:CB	3:A6:481:ARG:NH1	2.44	0.77
2:A4:877:ALA:N	6:D3:563:GLU:HB3	1.95	0.77
2:A4:909:LYS:N	6:D3:552:TYR:OH	2.18	0.77
3:A6:446:LEU:HD11	6:D3:721:PRO:HB3	1.65	0.77
11:I1:1042:LEU:O	16:N1:430:ARG:CD	2.30	0.77
11:I1:1046:HIS:HB2	17:O1:280:GLU:C	2.10	0.77
11:I1:1673:VAL:CA	11:I2:1611:PHE:C	2.58	0.77
11:I2:916:ALA:HB3	15:M3:586:ASP:C	2.08	0.77
11:I2:1044:GLY:O	17:O3:280:GLU:CD	2.04	0.77
11:I2:1045:PHE:O	15:M3:619:ILE:CD1	2.19	0.77
23:U1:402:GLY:N	31:c2:552:ARG:N	2.32	0.77
23:U2:39:ILE:HD11	31:c4:553:LEU:C	2.10	0.77
28:Z1:561:GLN:CB	30:b1:236:THR:CA	2.62	0.77
28:Z4:522:ASN:OD1	30:b4:241:PRO:HG3	1.84	0.77
33:h:152:MET:O	33:h:156:VAL:HG23	1.84	0.77
1:A1:1098:ARG:CZ	11:I1:1478:VAL:CG1	2.14	0.77
1:A3:1197:ALA:HB3	2:A4:728:LYS:HZ3	1.48	0.77
1:A3:1201:ARG:HB3	3:A6:546:ASN:ND2	1.88	0.77
1:A3:1311:ARG:HG3	3:A6:711:VAL:CG1	2.15	0.77
2:A4:78:VAL:HA	3:A6:472:SER:OG	1.85	0.77
2:A4:547:GLU:HG3	3:A6:366:ALA:O	1.83	0.77
2:A4:574:ARG:NH1	3:A6:453:SER:C	2.43	0.77
2:A4:703:SER:CB	3:A6:399:ASP:HA	2.00	0.77
2:A4:794:GLN:HG3	3:A6:144:PHE:CZ	2.19	0.77
2:A4:879:LEU:HB2	6:D3:564:ASN:ND2	2.00	0.77
2:A4:985:ALA:HB1	6:D3:500:LYS:N	1.92	0.77
3:A5:161[A]:ASP:C	5:C2:744:PHE:HB3	2.10	0.77
3:A5:1026:PRO:HA	11:I5:68:ILE:N	2.00	0.77
3:A5:1359:LEU:HB2	28:Z2:877:ILE:C	2.10	0.77
9:G1:256:GLN:HG2	17:O2:257:ALA:CB	2.13	0.77
11:I1:913:ALA:H	15:M1:584:GLN:CG	1.94	0.77
11:I1:976:ARG:NH1	15:M1:622:VAL:CB	2.29	0.77
11:I1:1054:ILE:C	17:O1:281:ALA:N	2.43	0.77
11:I1:1070:LEU:HB2	16:N1:429:GLU:HB3	1.67	0.77
11:I1:1543:LEU:HD11	11:I2:1677:LYS:HE2	1.67	0.77
17:O3:158:GLU:HG2	18:P3:315:GLU:C	2.09	0.77
22:T1:755:GLU:H	31:c5:58:ARG:NH2	1.44	0.77
23:U2:404:VAL:CG1	31:c4:543:ALA:C	2.28	0.77
24:V2:633:THR:CB	31:c2:85:ARG:CZ	2.62	0.77
26:X2:308:ASN:N	34:i:405:TYR:CA	2.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:410:ASN:HB3	30:b1:251:ILE:CB	2.15	0.77
28:Z1:561:GLN:CG	30:b1:236:THR:N	2.48	0.77
28:Z2:522:ASN:OD1	30:b2:241:PRO:HG3	1.84	0.77
28:Z3:406:ARG:HG3	30:b3:252:ALA:HB1	1.66	0.77
28:Z4:438:GLU:HG3	30:b4:333:HIS:CE1	2.20	0.77
28:Z4:523:ASP:O	30:b4:208:ASN:OD1	1.81	0.77
1:A1:874:VAL:HG11	6:D3:272:VAL:CA	2.14	0.76
1:A1:1202:GLU:C	2:A2:732:GLN:HA	2.10	0.76
2:A2:779:ASP:N	6:D1:678:GLY:HA2	1.96	0.76
2:A2:970:PHE:CG	6:D1:196:ILE:HD11	2.19	0.76
1:A3:1233:GLN:CB	3:A6:601:PHE:CE1	2.49	0.76
1:A3:1237:LEU:CD1	3:A6:119:TRP:CZ2	2.68	0.76
1:A3:1261:TYR:CE2	3:A6:616:ALA:HB2	2.20	0.76
1:A3:1333:ARG:O	6:D3:637:LYS:NZ	2.12	0.76
2:A4:648:TYR:CD1	3:A6:503:GLN:HG3	2.19	0.76
2:A4:669:LEU:HB3	3:A6:542:LEU:HG	1.67	0.76
2:A4:681:THR:HB	3:A6:431:PHE:HD1	1.47	0.76
2:A4:692:VAL:CG1	3:A6:467:LEU:CD2	1.99	0.76
2:A4:947:LYS:H	4:B6:351:GLU:HB3	1.47	0.76
2:A4:966:LEU:O	6:D3:202:GLN:OE1	1.99	0.76
3:A5:1093:THR:OG1	11:I5:37:GLU:CG	2.27	0.76
3:A6:785:ILE:HD11	3:A6:825:ARG:HG2	1.67	0.76
6:D7:527:ASN:O	11:I3:181:GLN:HG3	1.84	0.76
11:I1:885:GLU:OE2	17:O1:249:ARG:NH1	2.18	0.76
11:I1:1013:GLU:HA	16:N1:411:GLN:CD	2.10	0.76
11:I1:1028:CYS:SG	20:R1:168:LEU:HB3	2.25	0.76
11:I1:1665:LEU:CG	11:I2:1667:GLN:CG	2.19	0.76
11:I2:924:ILE:HB	15:M3:597:LYS:N	2.00	0.76
11:I2:958:THR:HB	16:N3:399:HIS:CG	2.20	0.76
11:I2:977:ASN:OD1	15:M3:621:ARG:CB	2.33	0.76
11:I2:991:THR:H	15:M3:611:LYS:CB	1.98	0.76
11:I2:1045:PHE:HA	17:O3:280:GLU:HA	1.66	0.76
17:O3:154:ARG:HD2	18:P3:324:LEU:HD13	0.83	0.76
23:U2:435:PHE:CD1	31:c4:539:ILE:CB	2.68	0.76
23:U2:437:ASN:C	31:c4:195:ILE:HD13	2.11	0.76
26:X3:141:ASN:O	26:X3:145:ASN:ND2	2.18	0.76
28:Z2:438:GLU:HG3	30:b2:333:HIS:CE1	2.20	0.76
28:Z3:438:GLU:CD	30:b3:333:HIS:CE1	2.62	0.76
1:A1:832:ASN:CG	6:D3:298:ASN:HB2	2.10	0.76
2:A2:1152:ASP:O	3:A5:175:GLU:C	2.27	0.76
1:A3:1167:CYS:HB2	3:A6:643:ALA:CB	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1186:TRP:CE2	3:A6:640:LEU:HB2	2.21	0.76
1:A3:1189:LEU:CG	3:A6:644:ALA:HB3	2.15	0.76
1:A3:1269:ALA:HA	3:A6:554:GLN:HB2	1.65	0.76
2:A4:806:PHE:CG	3:A6:382:SER:HB2	2.20	0.76
2:A4:909:LYS:HG2	6:D3:552:TYR:CG	2.19	0.76
3:A5:1360:GLY:H	28:Z2:879:PHE:H	1.34	0.76
3:A6:132:ASP:HB2	6:D3:607:PRO:HD3	1.66	0.76
3:A6:1411:ARG:HH11	26:X4:689:ALA:HB2	0.94	0.76
8:F1:1263:MET:C	17:O2:262:ASP:HB3	2.11	0.76
11:I1:984:GLU:CA	15:M1:614:ASP:O	2.33	0.76
11:I2:900:ARG:CA	17:O3:232:LYS:CE	2.31	0.76
11:I2:902:GLN:OE1	17:O3:235:ASN:ND2	2.18	0.76
11:I2:978:LYS:NZ	20:R3:155:GLU:HB3	2.00	0.76
11:I2:980:ILE:CA	15:M3:618:GLN:CA	2.50	0.76
11:I2:1031:ALA:CB	20:R3:168:LEU:CD2	2.57	0.76
21:S1:654:LYS:CA	21:S2:1153:GLN:O	2.33	0.76
23:U1:16:SER:N	31:c2:470:ARG:NE	2.32	0.76
23:U1:21:GLU:OE1	31:c2:472:GLU:HB3	1.85	0.76
23:U2:436:LEU:C	31:c4:428:ARG:NH2	2.43	0.76
26:X2:301:SER:HB3	34:i:326:ILE:O	1.85	0.76
28:Z1:531:LYS:HZ1	30:b1:166:LEU:HB3	1.46	0.76
28:Z1:561:GLN:CD	30:b1:237:LEU:N	2.44	0.76
28:Z3:438:GLU:HG3	30:b3:333:HIS:CE1	2.20	0.76
28:Z4:524:VAL:HG13	30:b4:236:THR:CA	2.15	0.76
2:A2:874:VAL:CG1	6:D1:611:LYS:CG	2.62	0.76
1:A3:1189:LEU:CD2	3:A6:614:ALA:HB1	1.92	0.76
1:A3:1236:GLN:HE21	3:A6:573:ARG:NH1	1.81	0.76
1:A3:1271:ILE:O	3:A6:550:VAL:CG2	2.34	0.76
1:A3:1285:LEU:C	3:A6:581:LYS:NZ	1.82	0.76
2:A4:669:LEU:HA	3:A6:542:LEU:CD1	2.15	0.76
2:A4:679:TYR:HB3	3:A6:101:TYR:CD2	2.20	0.76
2:A4:715:GLU:OE1	3:A6:516:TRP:NE1	2.17	0.76
2:A4:983:LEU:CD1	6:D3:553:PHE:CA	2.63	0.76
3:A5:165:PHE:CB	5:C2:743:LEU:HB2	2.07	0.76
3:A6:483:HIS:HB2	6:D3:675:ARG:HD3	1.66	0.76
3:A6:1399:ARG:HH21	28:Z4:968:ARG:N	1.77	0.76
11:I1:880:MET:N	17:O1:250:LEU:H	1.83	0.76
11:I1:888:GLU:C	17:O1:242:ARG:CZ	2.31	0.76
11:I1:935:GLY:N	15:M1:605:THR:N	2.19	0.76
11:I1:947:LEU:CG	17:O1:256:TYR:CE2	2.68	0.76
11:I1:990:GLU:HG2	17:O1:275:LEU:HB3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1066:LEU:N	16:N1:430:ARG:CD	2.37	0.76
11:I2:841:PHE:O	15:M3:591:ASP:HB2	1.85	0.76
11:I2:946:THR:CA	17:O3:257:ALA:HA	2.15	0.76
11:I2:954:GLU:HB3	16:N3:403:VAL:N	2.01	0.76
11:I2:955:LYS:HE2	16:N3:396:ILE:O	1.85	0.76
11:I2:957:SER:CA	20:R3:168:LEU:CA	2.55	0.76
11:I2:1035:GLN:CG	15:M3:623:LEU:O	2.23	0.76
11:I2:1059:PRO:HA	17:O3:273:ASP:O	1.84	0.76
11:I3:1269:ARG:HA	26:X1:524:SER:O	1.85	0.76
23:U2:42:PHE:HE1	31:c4:478:SER:CA	1.98	0.76
24:V1:416:ASP:HA	24:V1:443:THR:HG21	1.66	0.76
26:X2:196:ASP:CA	34:i:438:LEU:O	2.17	0.76
26:X2:300:SER:HG	34:i:367:GLU:HG2	1.49	0.76
26:X4:141:ASN:O	26:X4:145:ASN:ND2	2.18	0.76
28:Z1:407:GLY:CA	30:b1:251:ILE:HG13	2.14	0.76
28:Z2:561:GLN:CD	30:b2:237:LEU:N	2.43	0.76
28:Z3:522:ASN:OD1	30:b3:241:PRO:HB3	1.86	0.76
28:Z4:438:GLU:CD	30:b4:333:HIS:CE1	2.63	0.76
1:A1:1054:SER:OG	6:D1:809:ALA:CB	2.32	0.76
2:A2:1151:THR:CA	5:C2:733:LEU:CD1	2.47	0.76
2:A2:1155:ASN:HB2	3:A5:175:GLU:O	1.84	0.76
1:A3:1124:ARG:N	3:A6:599:ARG:NH2	2.11	0.76
1:A3:1162:ASN:HB2	3:A6:649:GLY:N	1.99	0.76
1:A3:1186:TRP:HE3	3:A6:641:ALA:CB	1.96	0.76
1:A3:1246:SER:C	3:A6:636:ASN:HD22	1.92	0.76
2:A4:673:HIS:NE2	3:A6:541:PRO:HB3	1.99	0.76
2:A4:880:ALA:HB2	6:D3:558:LYS:CE	2.16	0.76
2:A4:987:LYS:HG3	6:D3:497:PHE:CZ	2.21	0.76
3:A5:175:GLU:OE1	5:C2:733:LEU:CG	2.34	0.76
8:F1:1266:MET:CA	17:O2:265:ASN:HD22	1.98	0.76
9:G1:256:GLN:CG	17:O2:257:ALA:HB2	2.14	0.76
11:I1:923:GLY:HA3	15:M1:591:ASP:CA	2.14	0.76
11:I1:957:SER:CB	20:R1:168:LEU:HA	2.15	0.76
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB2	1.66	0.76
11:I2:874:LEU:O	17:O3:251:ILE:C	2.29	0.76
11:I2:895:ARG:CA	17:O3:236:ASP:N	2.46	0.76
11:I2:1021:ILE:CD1	16:N3:410:MET:HG3	2.15	0.76
11:I2:1033:PRO:HG3	20:R3:177:LEU:CD1	1.78	0.76
11:I3:777:SER:C	29:a2:40[A]:GLU:HG2	2.10	0.76
23:U1:201:LYS:CD	31:c1:625:PRO:HD2	2.16	0.76
23:U1:431:ILE:HG12	31:c2:470:ARG:H	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:440:ASP:CA	31:c4:428:ARG:HD3	2.16	0.76
28:Z1:526:ARG:CA	30:b1:206:ASN:OD1	2.33	0.76
28:Z3:561:GLN:CB	30:b3:236:THR:CA	2.62	0.76
28:Z3:561:GLN:CG	30:b3:236:THR:N	2.48	0.76
28:Z4:410:ASN:HB3	30:b4:251:ILE:CB	2.15	0.76
28:Z4:524:VAL:H	30:b4:238:ASN:HB2	0.71	0.76
1:A1:868:GLN:O	6:D3:277:ASN:HB2	1.83	0.76
2:A2:1135:ARG:CG	3:A5:138:LEU:HD11	2.09	0.76
1:A3:1166:LEU:HA	3:A6:594:LEU:CA	2.16	0.76
1:A3:1170:ILE:HG21	3:A6:591:ASP:OD1	1.83	0.76
1:A3:1186:TRP:HA	3:A6:641:ALA:CB	2.15	0.76
1:A3:1198:GLU:CB	3:A6:678:LEU:O	2.26	0.76
1:A3:1399:ARG:HD2	2:A4:884:ARG:O	1.85	0.76
2:A4:496:THR:HG23	3:A6:366:ALA:HB2	0.77	0.76
2:A4:682:ARG:CZ	3:A6:106:ALA:N	2.49	0.76
2:A4:816:LYS:HG2	3:A6:157:TRP:HE1	1.50	0.76
2:A4:892:SER:HA	3:A6:232:LEU:CB	2.15	0.76
2:A4:951:GLU:CD	3:A6:233:THR:C	2.52	0.76
2:A4:955:CYS:N	4:B6:345:LYS:CA	2.48	0.76
2:A4:970:PHE:HA	6:D3:192:TYR:CE2	2.20	0.76
2:A4:974:PRO:C	6:D3:499:LEU:CD1	2.59	0.76
2:A4:987:LYS:HG3	6:D3:497:PHE:HZ	1.49	0.76
3:A6:445:THR:OG1	6:D3:718:LYS:CE	2.24	0.76
3:A6:842:ARG:HH22	8:F2:777:ASN:ND2	1.82	0.76
3:A6:1416:ARG:O	28:Z4:1003:VAL:N	2.19	0.76
11:I1:945:LEU:CD2	17:O1:258:GLU:N	2.49	0.76
11:I2:1038:ILE:HD12	15:M3:617:THR:OG1	1.84	0.76
11:I2:1051:LYS:HB2	17:O3:289:ASP:N	1.99	0.76
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG22	1.83	0.76
21:S1:654:LYS:H	21:S2:1156:ILE:C	1.93	0.76
22:T1:826:GLY:HA2	31:c5:23:ARG:HH22	1.50	0.76
23:U1:38:ILE:HG12	31:c2:473:THR:HA	1.61	0.76
23:U2:13:THR:HB	31:c4:469:SER:N	2.01	0.76
23:U2:78:VAL:CA	31:c4:553:LEU:HD13	2.15	0.76
23:U2:430:PRO:HA	31:c4:462:HIS:HA	1.66	0.76
26:X2:369:GLU:CD	34:i:428:LEU:HD21	1.90	0.76
28:Z1:522:ASN:OD1	30:b1:241:PRO:HG3	1.84	0.76
28:Z1:561:GLN:CG	30:b1:235:LEU:CD2	2.61	0.76
28:Z2:438:GLU:CB	30:b2:314:PRO:HG2	2.15	0.76
28:Z3:552:ASP:O	30:b3:233:TRP:CG	2.14	0.76
28:Z4:531:LYS:HZ3	30:b4:166:LEU:CB	1.96	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:561:GLN:CD	30:b4:237:LEU:N	2.43	0.76
1:A1:1400:SER:OG	2:A2:885:LEU:CD2	2.33	0.76
2:A2:970:PHE:CB	6:D1:498:GLU:OE1	2.33	0.76
2:A4:85:VAL:CG1	3:A6:405:PHE:HD1	1.91	0.76
2:A4:538:ALA:CB	3:A6:359:LEU:O	2.33	0.76
2:A4:760:LEU:CD1	3:A6:388:GLU:HG3	2.02	0.76
2:A4:851:ASP:C	3:A6:171:HIS:H	1.91	0.76
2:A4:897:ASN:HB2	3:A6:177:ILE:N	2.00	0.76
3:A5:777:LEU:HD12	3:A5:822:ILE:HD11	1.66	0.76
6:D7:527:ASN:O	11:I3:181:GLN:NE2	2.18	0.76
9:G2:256:GLN:N	17:O4:262:ASP:CG	2.43	0.76
11:I1:874:LEU:CA	17:O1:251:ILE:O	2.32	0.76
11:I1:895:ARG:HH21	17:O1:233:THR:HG21	1.51	0.76
11:I1:916:ALA:CA	15:M1:586:ASP:HA	2.15	0.76
11:I1:962:ILE:HG21	20:R1:166:LEU:CD2	2.10	0.76
11:I2:998:ALA:CB	17:O3:267:ALA:HB1	2.15	0.76
11:I2:1038:ILE:CD1	15:M3:617:THR:O	2.34	0.76
11:I2:1039:ALA:CA	20:R3:170:LEU:CD2	2.43	0.76
11:I2:1053:GLY:C	17:O3:281:ALA:C	2.34	0.76
11:I2:1104:LEU:HD21	16:N3:433:GLU:HG3	0.79	0.76
11:I4:1282:PHE:HE2	29:a3:22:PRO:HB2	1.42	0.76
23:U1:20:LYS:HG2	31:c2:468:THR:O	1.86	0.76
23:U1:24:ILE:HG23	31:c2:601:ARG:NE	1.99	0.76
23:U2:399:ILE:HD11	31:c4:557:HIS:H	1.48	0.76
26:X2:317:PHE:HD2	34:i:474:ASP:HB3	1.51	0.76
26:X2:332:ILE:HG21	34:i:477:GLY:HA3	1.67	0.76
28:Z1:113:VAL:HG23	28:Z1:114:GLU:H	1.49	0.76
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB1	1.66	0.76
28:Z1:411:LEU:CD2	30:b1:251:ILE:CG2	2.54	0.76
28:Z2:410:ASN:HB3	30:b2:251:ILE:CB	2.15	0.76
28:Z2:438:GLU:CD	30:b2:333:HIS:CE1	2.62	0.76
28:Z4:534:ASP:N	30:b4:164:CYS:CB	2.48	0.76
28:Z4:555:LYS:CG	30:b4:233:TRP:CE3	2.69	0.76
2:A2:825:ARG:HH12	6:D1:679:ILE:HD11	1.48	0.76
2:A2:968:SER:O	6:D1:203:PRO:CD	2.33	0.76
2:A2:1121:LEU:HB3	3:A5:133:LYS:H	1.51	0.76
1:A3:1233:GLN:HG2	3:A6:578:ILE:CB	2.15	0.76
2:A4:555:VAL:H	3:A6:458:THR:CB	1.98	0.76
2:A4:577:ASP:HA	3:A6:453:SER:HB2	0.81	0.76
2:A4:701:ILE:HB	3:A6:466:ALA:CB	2.12	0.76
2:A4:720:LEU:HB2	3:A6:512:GLU:CA	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:764:MET:HE1	3:A6:494:PRO:CB	2.11	0.76
2:A4:810:PRO:HA	3:A6:251:ILE:O	1.86	0.76
2:A4:890:ALA:HA	3:A6:175:GLU:CG	2.15	0.76
2:A4:893:LEU:CD1	3:A6:175:GLU:C	2.50	0.76
2:A4:893:LEU:HD11	3:A6:175:GLU:HB2	1.67	0.76
2:A4:1055:ARG:HD3	6:D4:762:ARG:HB3	1.09	0.76
3:A5:1369:ILE:CD1	28:Z2:832:PHE:H	1.99	0.76
6:D3:283:LEU:HD12	6:D3:284:GLY:N	2.01	0.76
6:D5:283:LEU:HD12	6:D5:284:GLY:N	2.01	0.76
8:F1:1093:LEU:CD2	17:O2:241:SER:HA	2.15	0.76
8:F1:1137:GLN:HB2	17:O2:245:GLU:CA	2.16	0.76
9:G1:263:MET:SD	17:O2:260:LEU:HD22	2.25	0.76
11:I1:837:MET:HE1	17:O1:242:ARG:HB2	1.59	0.76
11:I1:877:ILE:HB	17:O1:252:VAL:CA	2.14	0.76
11:I1:900:ARG:CG	17:O1:232:LYS:HZ2	1.93	0.76
11:I1:935:GLY:H	15:M1:605:THR:H	1.29	0.76
11:I1:955:LYS:HE2	16:N1:397:GLU:CA	2.15	0.76
11:I1:990:GLU:HG3	17:O1:275:LEU:CD2	1.98	0.76
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB2	1.65	0.76
11:I2:797:LEU:HD22	17:O3:245:GLU:HG2	1.67	0.76
11:I2:887:GLN:CD	16:N3:393:ILE:CA	2.01	0.76
11:I2:950:LEU:HD23	15:M3:606:LEU:HG	1.67	0.76
11:I2:1036:PRO:CG	17:O3:287:LEU:HD21	2.16	0.76
11:I2:1040:HIS:HE2	16:N3:437:VAL:CG2	1.98	0.76
11:I2:1609:GLY:CA	12:J1:295:TYR:HE1	1.99	0.76
11:I3:1267:LEU:CD1	26:X1:529:TRP:HE3	1.62	0.76
11:I3:1267:LEU:HG	26:X1:529:TRP:CE2	2.20	0.76
11:I4:1270:LYS:CD	26:X3:527:VAL:CG1	2.63	0.76
11:I4:1277:LEU:HD23	26:X3:517:ASP:CG	2.11	0.76
17:O2:111:TYR:H	18:P2:325:ILE:CG1	1.95	0.76
17:O3:151:LEU:CD2	18:P3:325:ILE:CG1	0.76	0.76
17:O4:109:PRO:CD	18:P4:318:PRO:CG	2.58	0.76
17:O4:110:LEU:CG	18:P4:321:ILE:HB	2.14	0.76
21:S1:654:LYS:N	21:S2:1156:ILE:C	2.44	0.76
22:T1:724:TYR:CZ	31:c5:28:LYS:HA	2.21	0.76
23:U1:23:LYS:HG2	31:c2:483:ASP:OD2	1.84	0.76
23:U2:78:VAL:O	31:c4:553:LEU:CD2	2.34	0.76
23:U2:440:ASP:OD2	31:c4:345:MET:CE	2.33	0.76
24:V1:343:LYS:HZ1	31:c1:631:LYS:CE	1.94	0.76
26:X2:307:LYS:HD2	34:i:421:ILE:HG13	1.67	0.76
26:X2:308:ASN:CB	34:i:315:LEU:CD2	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:361:LEU:HD21	34:i:441:LEU:CG	2.14	0.76
28:Z1:438:GLU:CB	30:b1:314:PRO:HG2	2.15	0.76
28:Z2:555:LYS:CG	30:b2:233:TRP:CE3	2.69	0.76
2:A2:226:PRO:C	6:D1:708:ASP:O	2.25	0.76
2:A2:867:GLU:HG3	6:D1:593:ARG:HH21	1.49	0.76
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ2	1.49	0.76
2:A2:874:VAL:HG13	6:D1:611:LYS:HB2	1.68	0.76
1:A3:835:THR:CG2	6:D1:302:PRO:CB	2.47	0.76
1:A3:1083:SER:HB3	6:D3:798:MET:CE	0.53	0.76
1:A3:1165:ASP:HB2	3:A6:598:VAL:HG23	1.65	0.76
1:A3:1223:GLU:O	3:A6:496:THR:C	2.27	0.76
1:A3:1392:ARG:NH2	3:A6:224:PRO:C	2.44	0.76
2:A4:87:GLN:N	3:A6:392:LEU:HA	2.00	0.76
2:A4:635:ARG:CZ	3:A6:600:LYS:O	2.31	0.76
2:A4:710:LEU:O	3:A6:490:PHE:CG	2.39	0.76
2:A4:976:LEU:HD21	6:D3:501:LEU:O	1.84	0.76
2:A4:978:ASP:O	6:D3:475:ALA:N	2.19	0.76
3:A5:172:PRO:CD	5:C2:730:HIS:CD2	2.66	0.76
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB2	1.66	0.76
3:A5:1414:PHE:CG	28:Z2:960:CYS:CB	2.53	0.76
3:A6:442:ARG:NH1	6:D3:741:ILE:HG23	2.00	0.76
6:D2:283:LEU:HD12	6:D2:284:GLY:N	2.01	0.76
6:D7:537:ARG:HB3	11:I3:43:LYS:HZ2	1.51	0.76
8:F1:1093:LEU:CD1	17:O2:240:GLY:C	2.49	0.76
9:G1:266:ASP:CA	16:N2:412:ASN:CA	2.61	0.76
11:I1:955:LYS:HG2	16:N1:397:GLU:O	1.84	0.76
11:I1:1020:ALA:HB3	16:N1:406:HIS:C	2.09	0.76
11:I2:849:LEU:CD1	17:O3:247:TRP:CE3	2.69	0.76
11:I2:951:LYS:CG	16:N3:400:LEU:O	2.33	0.76
11:I2:980:ILE:C	15:M3:618:GLN:CG	2.58	0.76
11:I2:1048:GLU:CB	17:O3:284:LYS:CA	2.64	0.76
11:I3:1277:LEU:HD11	26:X1:511:TYR:HD2	1.41	0.76
23:U1:202:LEU:C	31:c1:633:PHE:HA	2.10	0.76
23:U2:415:THR:CA	31:c4:541:ARG:HH11	1.98	0.76
23:U3:70:LEU:HD22	23:U3:343:ILE:HD11	1.68	0.76
24:V3:548:TYR:OH	25:W3:18:ASP:OD2	2.01	0.76
28:Z3:527:SER:OG	30:b3:210:ARG:NE	2.19	0.76
28:Z4:438:GLU:CB	30:b4:314:PRO:HG2	2.15	0.76
1:A1:1222:ALA:N	2:A2:723:PHE:CZ	2.53	0.76
2:A2:871:ASN:CB	6:D1:571:SER:HB2	2.16	0.76
2:A2:982:THR:CB	6:D1:494:LEU:O	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1132:PRO:HD3	3:A6:653:ARG:NH2	1.96	0.76
1:A3:1229:VAL:CG2	3:A6:574:ARG:HB3	2.13	0.76
1:A3:1230:TYR:HD2	3:A6:575:LEU:HD13	1.51	0.76
1:A3:1265:ASN:O	3:A6:552:PHE:HB2	1.86	0.76
1:A3:1389:SER:O	3:A6:225:THR:OG1	2.03	0.76
2:A4:75:LEU:HD11	3:A6:321:ASP:O	1.43	0.76
2:A4:80:LYS:HZ3	3:A6:387:THR:HG22	1.50	0.76
2:A4:542:LEU:CD2	3:A6:364:HIS:ND1	2.01	0.76
2:A4:551:GLN:O	3:A6:108:SER:CB	2.21	0.76
2:A4:551:GLN:CG	3:A6:107:SER:HA	2.15	0.76
2:A4:710:LEU:CA	3:A6:480:VAL:HG22	2.14	0.76
2:A4:728:LYS:HG2	3:A6:548:LEU:CD2	2.15	0.76
2:A4:807:SER:CB	3:A6:383:PRO:O	2.33	0.76
2:A4:816:LYS:HE3	3:A6:157:TRP:HD1	1.50	0.76
2:A4:825:ARG:CZ	3:A6:564:ASN:HD22	1.97	0.76
2:A4:857:LYS:HD3	3:A6:129:ASN:H	1.49	0.76
2:A4:909:LYS:CG	6:D3:552:TYR:CG	2.67	0.76
3:A5:222:ALA:CB	5:C2:739:MET:SD	2.73	0.76
3:A5:1027:HIS:ND1	11:I5:66:LEU:N	2.18	0.76
3:A6:520:GLU:HG3	6:D3:681:ALA:CA	2.14	0.76
3:A6:1151:THR:CA	5:C6:733:LEU:HD12	2.15	0.76
6:D5:500:LYS:HE2	31:c3:472:GLU:CG	2.16	0.76
6:D7:283:LEU:HD12	6:D7:284:GLY:N	2.01	0.76
8:F1:1266:MET:HA	17:O2:265:ASN:HD22	1.45	0.76
11:I1:1028:CYS:CB	20:R1:169:GLY:O	2.34	0.76
11:I1:1034:ASP:HB2	15:M1:630:LEU:CD1	2.16	0.76
11:I1:1067:PHE:CG	16:N1:432:TYR:N	2.54	0.76
11:I1:1114:VAL:N	16:N1:435:ALA:HB3	2.01	0.76
11:I1:1673:VAL:N	11:I2:1611:PHE:HA	1.99	0.76
11:I2:837:MET:HE3	17:O3:243:LEU:HG	1.66	0.76
11:I2:875:ARG:O	17:O3:251:ILE:CG2	2.34	0.76
11:I2:899:LEU:HD23	17:O3:235:ASN:CB	2.15	0.76
11:I2:978:LYS:NZ	20:R3:154:ALA:C	2.44	0.76
11:I2:1034:ASP:O	16:N3:441:PHE:CG	2.37	0.76
11:I4:1275:SER:O	26:X3:518:ASP:HA	1.86	0.76
26:X2:195:GLN:HG2	34:i:439:GLN:HG3	1.68	0.76
26:X2:312:LYS:CB	34:i:397:ARG:O	2.33	0.76
26:X2:361:LEU:CD1	34:i:441:LEU:CD1	2.64	0.76
27:Y3:41:ASP:CA	29:a3:230:GLN:OE1	2.28	0.76
28:Z2:561:GLN:HG2	30:b2:235:LEU:HD23	1.66	0.76
28:Z4:561:GLN:CG	30:b4:236:THR:N	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:777:LEU:HD12	1:A1:822:ILE:HD11	1.66	0.76
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD2	2.60	0.76
2:A2:980:ARG:CG	6:D1:526:LEU:N	2.46	0.76
1:A3:1169:LEU:HB3	3:A6:593:ALA:HB3	1.67	0.76
2:A4:231:SER:OG	6:D3:709:ARG:NH2	2.17	0.76
2:A4:775:LEU:HG	3:A6:478:ASP:O	1.85	0.76
2:A4:795:GLN:O	3:A6:250:PHE:CZ	2.38	0.76
2:A4:986:THR:HG22	6:D3:504:LYS:CD	2.12	0.76
3:A5:1029:ILE:HG23	11:I5:69:GLY:CA	2.16	0.76
3:A6:136:GLU:CD	6:D3:602:THR:C	2.54	0.76
6:D1:283:LEU:HD12	6:D1:284:GLY:N	2.01	0.76
11:I1:797:LEU:HD13	17:O1:245:GLU:HG2	1.67	0.76
11:I1:952:LEU:HG	15:M1:599:ILE:HG23	1.66	0.76
11:I1:1048:GLU:CB	17:O1:284:LYS:O	2.34	0.76
11:I1:1669:ARG:CZ	11:I2:1610:VAL:CG1	2.64	0.76
11:I2:877:ILE:N	17:O3:254:ARG:HB3	2.01	0.76
11:I2:895:ARG:CA	17:O3:234:LEU:C	2.59	0.76
11:I2:916:ALA:HB3	15:M3:586:ASP:O	1.85	0.76
11:I2:1030:ARG:CA	20:R3:172:ASP:O	2.33	0.76
11:I2:1037:THR:CB	15:M3:624:ASN:ND2	2.49	0.76
21:S3:676:GLU:CB	21:S4:1146:ALA:HA	2.14	0.76
24:V3:416:ASP:HA	24:V3:443:THR:HG21	1.66	0.76
26:X2:192:LEU:HG	34:i:443:THR:CB	2.13	0.76
28:Z2:523:ASP:C	30:b2:208:ASN:OD1	2.29	0.76
28:Z3:524:VAL:N	30:b3:238:ASN:CA	2.49	0.76
28:Z3:561:GLN:CD	30:b3:237:LEU:N	2.44	0.76
2:A2:979:GLY:H	6:D1:496:LEU:CD1	1.99	0.75
2:A2:1094:ILE:HD13	6:D2:759:GLN:CD	2.03	0.75
1:A3:777:LEU:HD12	1:A3:822:ILE:HD11	1.66	0.75
1:A3:1224:PRO:CB	3:A6:500:LYS:HB2	1.71	0.75
2:A4:550:VAL:O	3:A6:434:PHE:CD2	2.27	0.75
2:A4:687:LEU:CD1	3:A6:476:PHE:HZ	1.98	0.75
2:A4:692:VAL:CG1	3:A6:467:LEU:CG	2.64	0.75
2:A4:720:LEU:HD23	3:A6:494:PRO:C	2.06	0.75
2:A4:773:PHE:HD1	3:A6:469:PHE:CE2	2.04	0.75
2:A4:773:PHE:HA	3:A6:561:VAL:HG13	1.66	0.75
2:A4:859:GLN:HB2	3:A6:131:PRO:CD	2.17	0.75
2:A4:908:LEU:CD2	6:D3:601:PHE:HB2	2.16	0.75
2:A4:917:LEU:CD1	3:A6:175:GLU:OE1	2.34	0.75
2:A4:951:GLU:CB	4:B6:347:LEU:HG	2.14	0.75
2:A4:974:PRO:C	6:D3:499:LEU:HD12	2.10	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:988:ARG:HD2	6:D3:500:LYS:HG2	1.66	0.75
3:A6:564:ASN:HD21	6:D3:679:ILE:CD1	1.97	0.75
11:I1:922:ASP:HB3	15:M1:589:GLY:CA	2.12	0.75
11:I1:1607:GLN:CG	11:I2:1739:GLU:HG2	2.11	0.75
11:I2:899:LEU:HD11	17:O3:234:LEU:H	1.49	0.75
11:I2:1020:ALA:HB2	16:N3:409:ALA:H	1.48	0.75
11:I2:1025:LEU:HD22	20:R3:170:LEU:HD13	1.66	0.75
11:I2:1040:HIS:HE2	16:N3:437:VAL:CB	1.99	0.75
11:I2:1068:HIS:ND1	16:N3:428:ASP:HA	2.00	0.75
11:I5:1275:SER:C	26:X2:521:TRP:CG	2.58	0.75
23:U1:70:LEU:HD22	23:U1:343:ILE:HD11	1.68	0.75
23:U3:278:GLN:H	25:W4:192:GLN:HE22	1.32	0.75
26:X1:141:ASN:O	26:X1:145:ASN:ND2	2.18	0.75
26:X2:141:ASN:O	26:X2:145:ASN:ND2	2.18	0.75
26:X2:297:LYS:HG2	34:i:446:LYS:HG2	1.68	0.75
26:X2:304:ARG:CA	34:i:317:LEU:HD11	2.15	0.75
28:Z1:555:LYS:CG	30:b1:233:TRP:CE3	2.69	0.75
28:Z2:410:ASN:ND2	30:b2:252:ALA:CA	2.50	0.75
28:Z2:524:VAL:N	30:b2:238:ASN:CA	2.49	0.75
28:Z3:526:ARG:CA	30:b3:206:ASN:OD1	2.33	0.75
28:Z3:535:ILE:CG1	30:b3:182:PRO:HG3	2.13	0.75
28:Z4:410:ASN:ND2	30:b4:252:ALA:CA	2.49	0.75
1:A1:874:VAL:CB	6:D3:272:VAL:HB	2.16	0.75
2:A2:780:GLU:HB3	6:D1:677:GLN:HB2	1.69	0.75
1:A3:785:ILE:HD11	1:A3:825:ARG:HG2	1.67	0.75
1:A3:1017:THR:HG22	6:D3:819:ASN:CG	2.12	0.75
1:A3:1083:SER:CB	6:D3:798:MET:CE	0.83	0.75
1:A3:1166:LEU:HA	3:A6:594:LEU:C	2.11	0.75
1:A3:1198:GLU:O	2:A4:729:SER:O	2.05	0.75
1:A3:1260:ALA:CB	3:A6:719:ARG:NE	2.49	0.75
1:A3:1271:ILE:HG12	3:A6:554:GLN:N	2.01	0.75
1:A3:1332:ARG:C	6:D3:637:LYS:HD3	2.11	0.75
2:A4:549:ALA:HB2	3:A6:365:MET:HE2	1.27	0.75
2:A4:682:ARG:CG	3:A6:432:VAL:O	2.33	0.75
2:A4:775:LEU:CB	3:A6:489:LEU:CD1	2.28	0.75
2:A4:792:VAL:CG1	3:A6:248:VAL:CG1	2.49	0.75
2:A4:864:ARG:HD3	6:D3:609:ILE:N	2.01	0.75
2:A4:897:ASN:CA	3:A6:165:PHE:CD1	2.68	0.75
2:A4:990:GLU:OE2	6:D3:556:ASP:O	2.04	0.75
3:A5:187:THR:HA	5:C2:746:PRO:CD	2.13	0.75
3:A5:1151:THR:CA	5:C5:733:LEU:HD12	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:982:PRO:HB2	11:I1:1388:GLU:OE2	1.86	0.75
8:F1:1267:ARG:HG3	17:O2:265:ASN:CB	2.17	0.75
11:I1:922:ASP:HA	20:R1:163:LEU:CB	2.17	0.75
11:I1:955:LYS:HD2	17:O1:249:ARG:HH22	1.49	0.75
11:I1:967:SER:HB2	15:M1:625:GLY:HA2	0.76	0.75
11:I1:1018:LYS:HE3	16:N1:413:VAL:HA	0.98	0.75
11:I1:1048:GLU:HG3	17:O1:288:GLU:N	2.01	0.75
11:I2:841:PHE:HA	15:M3:591:ASP:CG	2.11	0.75
11:I2:931:VAL:O	15:M3:605:THR:CG2	2.31	0.75
11:I2:950:LEU:HD22	16:N3:410:MET:CE	2.16	0.75
11:I2:990:GLU:C	17:O3:272:SER:CA	2.58	0.75
23:U1:21:GLU:C	31:c2:471:LEU:HG	2.10	0.75
23:U2:38:ILE:C	31:c4:559:ILE:HB	1.76	0.75
23:U2:395:CYS:HB2	31:c4:552:ARG:HA	1.67	0.75
23:U2:404:VAL:CB	31:c4:543:ALA:HB1	2.16	0.75
23:U2:437:ASN:O	31:c4:428:ARG:CZ	2.34	0.75
24:V1:287:ASN:CA	31:c1:11:TYR:CE2	2.69	0.75
26:X2:282:PHE:CD2	34:i:15:GLN:HB3	2.14	0.75
26:X2:308:ASN:HB2	34:i:315:LEU:CD2	2.16	0.75
28:Z1:410:ASN:ND2	30:b1:252:ALA:CA	2.49	0.75
28:Z1:523:ASP:C	30:b1:208:ASN:OD1	2.29	0.75
28:Z3:531:LYS:HD3	30:b3:182:PRO:C	2.11	0.75
28:Z3:539:GLU:OE1	30:b3:165:THR:N	2.16	0.75
28:Z3:557:CYS:HB2	30:b3:210:ARG:NH1	1.97	0.75
28:Z4:557:CYS:O	30:b4:235:LEU:O	1.99	0.75
1:A1:878:LEU:HD12	6:D3:276:GLY:HA2	1.68	0.75
1:A3:1237:LEU:CD2	3:A6:119:TRP:HZ2	1.83	0.75
1:A3:1249:PHE:CE1	3:A6:584:GLY:HA2	1.73	0.75
1:A3:1258:VAL:H	3:A6:623:SER:HB2	1.49	0.75
2:A4:537:ALA:HB3	3:A6:362:PHE:O	1.85	0.75
2:A4:614:ALA:CB	3:A6:502:THR:HG21	1.92	0.75
2:A4:676:LEU:CG	3:A6:499:ILE:HD13	2.17	0.75
2:A4:855:THR:CG2	3:A6:168:ASP:N	2.47	0.75
2:A4:868:GLN:CG	6:D3:570:VAL:HB	2.16	0.75
3:A5:1370:ALA:N	28:Z2:825:TYR:O	2.19	0.75
3:A6:1369:ILE:N	28:Z4:874:ASN:CB	2.49	0.75
8:F1:1262:HIS:CG	17:O2:259:ASP:CA	2.57	0.75
8:F1:1262:HIS:HA	17:O2:259:ASP:HA	1.67	0.75
9:G1:263:MET:CB	17:O2:260:LEU:HB2	2.17	0.75
11:I1:846:ILE:CD1	15:M1:594:LYS:HB3	1.89	0.75
11:I1:942:HIS:N	17:O1:260:LEU:HA	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:947:LEU:O	16:N1:407:ALA:HB3	1.85	0.75
11:I1:953:LEU:N	16:N1:403:VAL:CG1	2.49	0.75
11:I1:1037:THR:OG1	15:M1:624:ASN:ND2	2.11	0.75
11:I1:1061:ASP:CA	17:O1:279:ILE:CD1	2.65	0.75
11:I1:1118:LEU:CD1	16:N1:432:TYR:CE2	2.68	0.75
11:I2:950:LEU:HB2	16:N3:407:ALA:CA	2.14	0.75
11:I2:1015:TYR:HB3	16:N3:412:ASN:CG	2.09	0.75
11:I2:1104:LEU:CG	16:N3:433:GLU:OE2	2.34	0.75
23:U2:431:ILE:H	31:c4:481:ILE:HD11	1.50	0.75
26:X2:300:SER:HB3	34:i:335:HIS:CA	2.16	0.75
26:X2:361:LEU:CD2	34:i:441:LEU:CG	2.63	0.75
28:Z1:410:ASN:CB	30:b1:251:ILE:HB	2.16	0.75
28:Z1:443:LEU:HD21	30:b1:250:GLY:HA3	1.68	0.75
28:Z3:438:GLU:CB	30:b3:314:PRO:HG2	2.15	0.75
28:Z3:561:GLN:HG2	30:b3:235:LEU:HD23	1.66	0.75
28:Z4:443:LEU:HD21	30:b4:250:GLY:HA3	1.68	0.75
28:Z4:522:ASN:OD1	30:b4:241:PRO:HB3	1.85	0.75
1:A1:1223:GLU:HG3	2:A2:734:LEU:CD1	2.15	0.75
2:A2:909:LYS:O	6:D1:555:ARG:HG3	1.86	0.75
2:A2:1094:ILE:CG2	6:D2:759:GLN:HB3	2.15	0.75
2:A2:1154:PHE:HE1	4:B5:342:ARG:HD2	0.96	0.75
2:A4:231:SER:HB3	6:D3:709:ARG:HH21	1.35	0.75
2:A4:670:SER:H	3:A6:542:LEU:HG	1.52	0.75
2:A4:682:ARG:HG3	3:A6:431:PHE:CD1	1.63	0.75
2:A4:778:PHE:CA	3:A6:487:ASP:CG	2.53	0.75
2:A4:978:ASP:O	6:D3:476:VAL:N	2.19	0.75
3:A5:160:ILE:HD13	5:C2:743:LEU:CD1	2.12	0.75
3:A5:995:VAL:O	11:I5:61:LYS:HB2	1.82	0.75
3:A5:999:SER:O	11:I5:64:LYS:CG	2.33	0.75
3:A5:1026:PRO:CG	11:I5:73:TYR:HB2	2.15	0.75
3:A5:1368:GLN:HB2	28:Z2:841:ALA:CA	2.06	0.75
3:A5:1372:THR:HB	28:Z2:828:LEU:N	2.02	0.75
3:A6:777:LEU:HD12	3:A6:822:ILE:HD11	1.66	0.75
3:A6:1403:MSE:CA	26:X4:741:GLN:O	2.34	0.75
11:I1:911:PRO:CB	15:M1:584:GLN:NE2	2.50	0.75
11:I1:1664:PHE:CE2	11:I2:1668:HIS:C	2.63	0.75
11:I1:1668:HIS:HB2	11:I2:1668:HIS:C	2.12	0.75
11:I2:895:ARG:CB	17:O3:234:LEU:O	2.34	0.75
11:I2:980:ILE:HG23	15:M3:621:ARG:HB2	0.85	0.75
11:I2:1037:THR:OG1	20:R3:169:GLY:CA	2.34	0.75
21:S1:176:MET:HE2	21:S1:212:LEU:CD1	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:736:LEU:CA	31:c5:18:SER:O	2.34	0.75
22:T1:736:LEU:O	31:c5:19:THR:HG22	1.86	0.75
23:U1:394:ILE:HG23	31:c2:477:GLU:CG	2.16	0.75
23:U2:407:VAL:O	31:c4:542:LYS:CA	2.29	0.75
26:X2:208:LEU:CD2	34:i:445:GLN:CD	2.60	0.75
26:X2:280:VAL:CG2	34:i:14:TRP:NE1	2.50	0.75
28:Z1:527:SER:OG	30:b1:210:ARG:NE	2.19	0.75
28:Z2:561:GLN:CG	30:b2:235:LEU:CD2	2.61	0.75
1:A1:868:GLN:CA	6:D3:280:GLN:CB	2.63	0.75
2:A2:867:GLU:CG	6:D1:593:ARG:NH2	2.49	0.75
2:A4:646:ILE:CD1	3:A6:500:LYS:HG2	2.15	0.75
2:A4:781:ARG:HH12	3:A6:522:GLY:HA3	1.49	0.75
2:A4:806:PHE:CD2	3:A6:382:SER:HB2	2.22	0.75
2:A4:886:PHE:CD1	3:A6:174:PRO:O	2.39	0.75
2:A4:948:ALA:CB	4:B6:351:GLU:OE1	2.35	0.75
2:A4:972:GLY:C	6:D3:206:VAL:H	1.91	0.75
3:A5:157:TRP:N	5:C2:741:THR:CG2	2.49	0.75
3:A5:785:ILE:HD11	3:A5:825:ARG:HG2	1.67	0.75
3:A5:1005:PHE:HE1	11:I5:67:LYS:HE3	0.97	0.75
6:D6:804:SER:CB	22:T3:764:PHE:CD2	2.67	0.75
8:F1:1264:ARG:CB	17:O2:263:GLN:HA	2.08	0.75
11:I1:928:LEU:HD21	20:R1:154:ALA:C	2.11	0.75
11:I1:950:LEU:HG	15:M1:606:LEU:HD21	1.67	0.75
11:I1:1020:ALA:HB1	16:N1:405:ALA:C	2.09	0.75
11:I2:877:ILE:CG1	17:O3:254:ARG:CB	0.82	0.75
11:I2:899:LEU:HD11	17:O3:234:LEU:CB	2.17	0.75
11:I2:937:TYR:HB3	17:O3:258:GLU:HA	1.67	0.75
11:I2:951:LYS:CB	17:O3:253:LEU:HD22	2.08	0.75
11:I2:1045:PHE:HZ	16:N3:431:VAL:O	1.69	0.75
11:I2:1045:PHE:CE1	17:O3:279:ILE:HG21	2.22	0.75
11:I4:767:ASP:OD1	11:I4:771:ASN:ND2	2.20	0.75
17:O4:107:THR:HG21	18:P4:321:ILE:HD11	1.67	0.75
24:V2:292:ILE:HD12	24:V2:292:ILE:H	1.52	0.75
26:X2:369:GLU:OE1	34:i:434:ASP:HA	1.86	0.75
28:Z1:524:VAL:HG12	30:b1:236:THR:CG2	2.12	0.75
28:Z2:407:GLY:CA	30:b2:251:ILE:HG13	2.14	0.75
28:Z4:561:GLN:OE1	30:b4:237:LEU:N	2.19	0.75
2:A2:779:ASP:H	6:D1:678:GLY:CA	1.98	0.75
2:A2:1114:ILE:CD1	5:C2:731:LYS:CB	2.58	0.75
2:A2:1152:ASP:OD1	3:A5:168:ASP:HB3	1.87	0.75
1:A3:1183:LEU:HD12	3:A6:638:GLU:HB2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:HG2	3:A6:578:ILE:HD13	1.68	0.75
2:A4:615:LEU:HB3	3:A6:509:LYS:H	1.49	0.75
2:A4:621:GLN:NE2	3:A6:108:SER:C	2.31	0.75
2:A4:727:ASN:CG	3:A6:605:TYR:CA	2.51	0.75
2:A4:921:VAL:HG22	3:A6:175:GLU:CD	2.12	0.75
3:A5:1011:TYR:OH	11:I5:54:LYS:CG	2.34	0.75
3:A6:1367:THR:CG2	28:Z4:876:LEU:H	1.99	0.75
6:D4:283:LEU:HD12	6:D4:284:GLY:N	2.01	0.75
6:D6:283:LEU:HD12	6:D6:284:GLY:N	2.01	0.75
11:I1:767:ASP:OD1	11:I1:771:ASN:ND2	2.20	0.75
11:I1:843:GLU:HG2	15:M1:587:GLU:OE1	1.86	0.75
11:I1:843:GLU:CG	15:M1:587:GLU:CD	2.45	0.75
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD23	1.85	0.75
11:I1:1055:GLU:CG	17:O1:280:GLU:CG	2.61	0.75
11:I1:1109:LEU:N	16:N1:441:PHE:H	1.63	0.75
11:I2:887:GLN:CB	16:N3:393:ILE:HG12	1.98	0.75
11:I2:947:LEU:N	17:O3:260:LEU:CD2	2.50	0.75
11:I2:977:ASN:N	20:R3:149:ARG:N	2.34	0.75
22:T1:755:GLU:C	31:c5:58:ARG:NH2	2.44	0.75
23:U2:408:ASP:C	31:c4:541:ARG:C	2.50	0.75
26:X2:192:LEU:CD1	34:i:443:THR:HG23	2.12	0.75
26:X2:315:GLN:CB	34:i:399:PRO:CB	2.49	0.75
26:X2:365:ILE:CG2	34:i:424:LEU:HG	2.08	0.75
28:Z1:535:ILE:CG1	30:b1:182:PRO:HG3	2.13	0.75
28:Z2:410:ASN:CB	30:b2:251:ILE:HB	2.16	0.75
28:Z4:523:ASP:C	30:b4:208:ASN:OD1	2.29	0.75
28:Z4:524:VAL:CG1	30:b4:236:THR:HG21	2.07	0.75
1:A1:1204:TRP:CZ3	2:A2:734:LEU:CD1	2.70	0.75
2:A2:227:SER:HB2	6:D1:711:PHE:CG	2.21	0.75
2:A4:701:ILE:HG12	3:A6:466:ALA:N	2.00	0.75
2:A4:710:LEU:H	3:A6:480:VAL:CG2	1.99	0.75
2:A4:722:ASN:OD1	3:A6:578:ILE:CD1	2.34	0.75
2:A4:756:ALA:O	3:A6:388:GLU:HA	1.87	0.75
2:A4:908:LEU:HD21	6:D3:602:THR:N	2.01	0.75
2:A4:976:LEU:CG	6:D3:472:PHE:HD2	1.92	0.75
3:A5:175:GLU:CG	5:C2:733:LEU:CD1	2.59	0.75
3:A6:1398:LYS:CE	28:Z4:921:THR:CB	2.63	0.75
6:D7:527:ASN:C	11:I3:181:GLN:HE21	1.94	0.75
6:D7:537:ARG:HB3	11:I3:43:LYS:NZ	2.02	0.75
11:I1:960:SER:CB	16:N1:395:GLU:OE2	2.33	0.75
11:I1:1104:LEU:CG	20:R1:174:ARG:HD2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:15:PHE:CG	31:c4:477:GLU:C	2.65	0.75
26:X2:189:TYR:CE1	34:i:440:GLU:OE2	2.39	0.75
26:X2:300:SER:HB2	34:i:335:HIS:N	2.02	0.75
26:X2:300:SER:H	34:i:368[A]:CYS:HA	1.51	0.75
26:X2:301:SER:CB	34:i:326:ILE:O	2.35	0.75
28:Z1:522:ASN:N	30:b1:238:ASN:HB3	1.96	0.75
28:Z1:522:ASN:OD1	30:b1:241:PRO:HB3	1.86	0.75
28:Z1:527:SER:HA	30:b1:204:GLU:CB	2.17	0.75
28:Z2:527:SER:OG	30:b2:210:ARG:NE	2.19	0.75
28:Z2:527:SER:HA	30:b2:204:GLU:CB	2.17	0.75
28:Z3:410:ASN:ND2	30:b3:252:ALA:CA	2.49	0.75
28:Z3:544:MET:HE1	30:b3:181:TYR:CA	2.05	0.75
28:Z4:561:GLN:HG2	30:b4:235:LEU:HD23	1.66	0.75
2:A2:227:SER:OG	6:D1:711:PHE:HD2	1.70	0.75
2:A2:911:TYR:HE2	6:D1:555:ARG:NH2	1.84	0.75
2:A2:1129:PRO:HA	3:A5:139:ASN:O	1.87	0.75
1:A3:1268:ASP:H	3:A6:553:ASP:C	1.94	0.75
2:A4:688:TRP:CB	3:A6:395:MET:HG2	2.12	0.75
2:A4:701:ILE:HD12	3:A6:466:ALA:HB2	1.57	0.75
2:A4:718:GLU:OE2	3:A6:121:PRO:HB2	1.87	0.75
2:A4:735:ALA:CB	3:A6:682:ARG:HE	1.94	0.75
2:A4:771:ILE:CD1	3:A6:476:PHE:CD1	2.69	0.75
2:A4:772:SER:HB2	3:A6:477:PHE:CE1	2.20	0.75
2:A4:772:SER:CA	3:A6:489:LEU:CD1	2.61	0.75
2:A4:795:GLN:C	3:A6:249:SER:HB2	2.11	0.75
2:A4:854:VAL:CG1	3:A6:174:PRO:HD3	2.16	0.75
2:A4:864:ARG:CB	6:D3:608:ILE:HG12	2.17	0.75
2:A4:897:ASN:C	3:A6:176:LEU:HB3	2.12	0.75
3:A5:234:LEU:HD23	5:C2:738:ASP:HA	1.68	0.75
3:A5:1029:ILE:CA	11:I5:69:GLY:O	2.33	0.75
3:A5:1368:GLN:HA	28:Z2:844:CYS:CB	2.16	0.75
3:A5:1374:ALA:HB3	28:Z2:824:PHE:CA	2.16	0.75
3:A5:1379:GLY:CA	28:Z2:816:THR:H	1.98	0.75
3:A6:518:GLU:O	6:D3:686:ASP:CB	2.35	0.75
9:G1:254:ASN:ND2	15:M2:606:LEU:HA	2.02	0.75
9:G1:263:MET:CA	16:N2:411:GLN:HB3	1.88	0.75
11:I1:840:LEU:HD22	17:O1:247:TRP:HD1	1.52	0.75
11:I1:928:LEU:CD2	20:R1:155:GLU:HB2	2.17	0.75
11:I1:967:SER:HB2	15:M1:625:GLY:C	2.10	0.75
11:I1:991:THR:CG2	15:M1:611:LYS:H	1.97	0.75
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:767:ASP:OD1	11:I2:771:ASN:ND2	2.20	0.75
11:I2:1034:ASP:HB3	15:M3:630:LEU:HD13	1.69	0.75
11:I2:1044:GLY:CA	17:O3:275:LEU:HD12	2.04	0.75
11:I2:1055:GLU:N	17:O3:278:GLU:CA	2.40	0.75
11:I5:1280:PRO:HG3	26:X2:523:LEU:CD1	2.16	0.75
23:U2:394:ILE:CG1	31:c4:538:LEU:HB2	1.82	0.75
23:U2:394:ILE:HG21	31:c4:535:VAL:CG2	1.86	0.75
23:U2:405:GLU:H	31:c4:544:VAL:HG23	0.66	0.75
26:X2:361:LEU:HD21	34:i:441:LEU:CD2	2.17	0.75
27:Y3:41:ASP:HB2	29:a3:231[B]:HIS:CE1	2.18	0.75
28:Z1:524:VAL:N	30:b1:238:ASN:CA	2.49	0.75
28:Z3:555:LYS:HB3	30:b3:212:PHE:HA	1.68	0.75
28:Z4:523:ASP:CG	30:b4:239:THR:OG1	2.30	0.75
28:Z4:539:GLU:OE1	30:b4:165:THR:N	2.16	0.75
1:A1:1200:ARG:NH2	2:A2:642:ARG:NH2	2.34	0.75
2:A2:974:PRO:HD2	6:D1:205:LEU:HD23	0.75	0.75
2:A2:980:ARG:NH2	6:D1:503:LEU:CD1	2.50	0.75
1:A3:1021:LEU:CB	6:D3:816:VAL:O	2.34	0.75
1:A3:1180:ARG:O	3:A6:642:ARG:NH2	2.20	0.75
1:A3:1285:LEU:CB	3:A6:581:LYS:HZ3	1.84	0.75
2:A4:548:LEU:HB2	3:A6:105:GLY:HA2	1.69	0.75
2:A4:954:ILE:HG22	4:B6:343:LYS:C	2.09	0.75
3:A5:1098:ARG:HD3	11:I5:29:GLN:CG	2.16	0.75
6:D5:381:ASN:HD22	31:c1:311:ALA:HB1	1.52	0.75
11:I1:976:ARG:HH22	15:M1:622:VAL:CG2	1.99	0.75
11:I1:991:THR:HG22	15:M1:611:LYS:N	2.02	0.75
11:I1:1038:ILE:CA	20:R1:169:GLY:HA3	2.17	0.75
11:I1:1040:HIS:C	20:R1:170:LEU:HD21	1.81	0.75
11:I2:886:LEU:HB3	17:O3:242:ARG:HG2	1.69	0.75
11:I2:924:ILE:HG13	15:M3:597:LYS:N	1.91	0.75
11:I2:942:HIS:CG	17:O3:259:ASP:OD1	2.39	0.75
11:I2:1021:ILE:HG13	16:N3:410:MET:CE	2.16	0.75
23:U1:23:LYS:CD	31:c2:468:THR:OG1	2.32	0.75
23:U1:24:ILE:CD1	31:c2:467:GLU:CD	1.77	0.75
23:U2:15:PHE:HD2	31:c4:478:SER:N	1.83	0.75
24:V4:416:ASP:HA	24:V4:443:THR:HG21	1.66	0.75
26:X2:363:TYR:CA	34:i:418:LEU:C	2.59	0.75
26:X2:366:PRO:HB2	34:i:366:PHE:CD2	2.22	0.75
28:Z1:523:ASP:CG	30:b1:239:THR:OG1	2.30	0.75
28:Z1:549:LYS:HB3	30:b1:182:PRO:CD	2.17	0.75
28:Z2:522:ASN:OD1	30:b2:241:PRO:HB3	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:410:ASN:HB3	30:b3:251:ILE:CB	2.15	0.75
1:A1:1221:ILE:HD11	2:A2:618:ALA:HB2	1.60	0.74
2:A2:869:ALA:C	6:D1:548:LEU:HD21	2.12	0.74
1:A3:1123:GLU:CB	3:A6:599:ARG:HD3	2.13	0.74
1:A3:1236:GLN:HB3	3:A6:118:SER:HB2	0.81	0.74
2:A4:556:PRO:HD3	3:A6:456:ASP:HA	1.67	0.74
2:A4:721:ARG:HB3	3:A6:572:ARG:NH2	2.01	0.74
2:A4:757:LEU:CG	3:A6:543:GLY:N	2.50	0.74
2:A4:760:LEU:CD1	3:A6:98:LEU:HB2	2.17	0.74
2:A4:854:VAL:H	3:A6:171:HIS:N	1.84	0.74
2:A4:910:TYR:CD1	6:D3:555:ARG:O	2.40	0.74
2:A4:947:LYS:HD2	3:A6:203:ILE:CG1	2.17	0.74
3:A5:1027:HIS:ND1	11:I5:65:LYS:CA	2.49	0.74
3:A5:1053:ARG:NE	11:I5:99:ARG:HG3	2.02	0.74
3:A5:1368:GLN:CG	28:Z2:841:ALA:HA	2.13	0.74
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CD	1.85	0.74
9:G1:254:ASN:ND2	17:O2:261:LYS:CE	2.50	0.74
9:G1:256:GLN:NE2	9:G1:263:MET:SD	2.60	0.74
11:I1:947:LEU:HG	16:N1:408:MET:N	2.01	0.74
11:I1:1043:LEU:HG	20:R1:170:LEU:HD13	1.69	0.74
11:I2:797:LEU:HD22	17:O3:245:GLU:CB	2.17	0.74
11:I2:846:ILE:HG21	17:O3:247:TRP:CZ2	2.22	0.74
11:I2:1031:ALA:HB1	20:R3:168:LEU:HD22	1.67	0.74
11:I3:1278:ALA:HB3	26:X1:520:GLU:H	1.48	0.74
11:I3:1280:PRO:CD	26:X1:523:LEU:CD1	2.64	0.74
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:CA	2.70	0.74
17:O3:148:ARG:HD2	18:P3:325:ILE:HG23	1.68	0.74
22:T2:837:LYS:HA	31:c4:333:LEU:CD2	2.15	0.74
23:U2:432:TYR:HD2	31:c4:539:ILE:CD1	1.95	0.74
26:X2:297:LYS:HG2	34:i:447:CYS:O	1.86	0.74
28:Z1:539:GLU:OE1	30:b1:165:THR:N	2.16	0.74
28:Z3:523:ASP:C	30:b3:208:ASN:OD1	2.29	0.74
28:Z4:561:GLN:CG	30:b4:235:LEU:CD2	2.61	0.74
1:A1:1332:ARG:O	6:D1:637:LYS:HG2	1.88	0.74
1:A3:1196:GLU:N	3:A6:612:ALA:HB3	2.02	0.74
1:A3:1271:ILE:CD1	3:A6:553:ASP:H	1.98	0.74
1:A3:1281:LEU:CD2	3:A6:577:ASP:HA	2.16	0.74
1:A3:1389:SER:CB	3:A6:224:PRO:HB3	2.07	0.74
2:A4:639:ASN:CA	3:A6:603:ASN:O	2.35	0.74
2:A4:674:ASP:H	3:A6:100:SER:HG	1.27	0.74
2:A4:711:VAL:N	3:A6:480:VAL:HG21	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:718:GLU:CG	3:A6:491:VAL:O	2.35	0.74
2:A4:723:PHE:H	3:A6:495:ASP:HA	1.51	0.74
2:A4:789:LEU:HD21	3:A6:146:LYS:CG	1.99	0.74
2:A4:823:VAL:CG1	3:A6:130:ILE:HG23	2.05	0.74
2:A4:954:ILE:H	4:B6:345:LYS:CA	1.98	0.74
3:A5:996:ASN:CB	11:I5:59:LEU:N	2.50	0.74
3:A5:1368:GLN:CD	28:Z2:840:PHE:CB	2.55	0.74
9:G1:253:SER:HB2	15:M2:605:THR:CG2	2.15	0.74
11:I1:840:LEU:HD22	17:O1:247:TRP:CD1	2.22	0.74
11:I1:942:HIS:N	17:O1:260:LEU:N	2.35	0.74
11:I1:976:ARG:HH22	15:M1:622:VAL:HG21	1.50	0.74
11:I1:1040:HIS:CE1	15:M1:623:LEU:HD21	2.21	0.74
11:I2:797:LEU:CG	17:O3:245:GLU:HA	2.15	0.74
11:I2:833:PHE:CE1	17:O3:241:SER:O	2.40	0.74
11:I2:961:ARG:HH22	16:N3:388:LYS:CA	1.95	0.74
11:I2:1025:LEU:HD22	20:R3:170:LEU:CD1	2.17	0.74
11:I5:767:ASP:OD1	11:I5:771:ASN:ND2	2.20	0.74
21:S4:176:MET:HE1	21:S4:232:LEU:HD12	1.69	0.74
24:V1:292:ILE:HD12	24:V1:292:ILE:H	1.52	0.74
28:Z3:522:ASN:OD1	30:b3:241:PRO:HG3	1.84	0.74
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB3	1.68	0.74
28:Z4:527:SER:OG	30:b4:210:ARG:NE	2.19	0.74
2:A2:782:VAL:N	6:D1:676:ALA:C	2.41	0.74
2:A2:980:ARG:HH21	6:D1:503:LEU:HB2	0.59	0.74
1:A3:1188:ASN:HB3	3:A6:645:PHE:HD1	1.49	0.74
1:A3:1277:TRP:O	3:A6:625:LEU:HD23	1.71	0.74
1:A3:1325:MET:HE2	3:A6:126:ARG:HD3	1.67	0.74
2:A4:701:ILE:CG1	3:A6:465:SER:C	2.60	0.74
2:A4:779:ASP:OD1	3:A6:487:ASP:N	2.20	0.74
2:A4:798:LYS:CD	3:A6:314:TRP:HE1	2.00	0.74
2:A4:886:PHE:CE1	3:A6:176:LEU:CA	2.70	0.74
2:A4:1148:ARG:O	5:C4:730:HIS:N	2.20	0.74
3:A5:1363:ASP:HB2	28:Z2:875:LEU:H	1.50	0.74
11:I1:947:LEU:CD1	16:N1:411:GLN:HB3	2.17	0.74
11:I1:1052:LEU:O	17:O1:286:ILE:CG1	2.36	0.74
11:I1:1109:LEU:HA	17:O1:290:TYR:OH	1.87	0.74
11:I2:797:LEU:HD11	17:O3:244:GLU:C	2.12	0.74
18:P1:279:GLY:N	18:P4:326:GLN:NE2	2.35	0.74
21:S4:408:THR:HG22	21:S4:418:TYR:HB2	1.70	0.74
22:T1:832:VAL:HG22	31:c5:23:ARG:CZ	2.18	0.74
23:U2:25:GLU:CA	31:c4:578:TRP:NE1	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V1:339:LEU:HA	31:c1:627:ASP:HB2	1.67	0.74
26:X2:286:SER:O	34:i:493:PRO:HB3	1.65	0.74
26:X2:361:LEU:HD23	34:i:423:LYS:HD2	1.66	0.74
28:Z2:523:ASP:CG	30:b2:239:THR:OG1	2.30	0.74
28:Z2:526:ARG:CA	30:b2:206:ASN:OD1	2.33	0.74
28:Z2:549:LYS:HB3	30:b2:182:PRO:CD	2.17	0.74
28:Z3:555:LYS:CG	30:b3:233:TRP:CE3	2.69	0.74
1:A1:868:GLN:C	6:D3:280:GLN:HG2	2.12	0.74
1:A1:870:HIS:CG	6:D3:280:GLN:HA	2.21	0.74
1:A1:1332:ARG:NH2	6:D1:681:ALA:CB	2.49	0.74
1:A3:1052:THR:HG22	6:D3:814:MET:C	2.11	0.74
1:A3:1163:TYR:CE1	3:A6:648:TYR:HA	2.22	0.74
1:A3:1229:VAL:HG22	3:A6:574:ARG:CG	2.17	0.74
1:A3:1233:GLN:C	3:A6:601:PHE:CE1	2.65	0.74
1:A3:1285:LEU:HA	3:A6:581:LYS:HZ1	1.09	0.74
1:A3:1285:LEU:HD11	3:A6:581:LYS:HB2	1.68	0.74
1:A3:1392:ARG:HB2	3:A6:225:THR:HG1	1.50	0.74
2:A4:635:ARG:HH12	3:A6:600:LYS:C	1.81	0.74
2:A4:724:LEU:HD22	3:A6:496:THR:HG23	1.68	0.74
2:A4:973:GLU:CB	6:D3:498:GLU:HB2	2.17	0.74
2:A4:1149:THR:CA	5:C4:730:HIS:C	2.10	0.74
3:A5:1372:THR:OG1	28:Z2:828:LEU:CB	2.35	0.74
3:A6:446:LEU:CG	6:D3:730:ARG:HG3	2.17	0.74
11:I1:920:PHE:CB	17:O1:243:LEU:HD22	2.17	0.74
11:I1:989:GLY:H	15:M1:614:ASP:CG	1.94	0.74
11:I1:1669:ARG:HB3	11:I2:1664:PHE:HZ	0.94	0.74
11:I2:881:ILE:CG2	17:O3:249:ARG:HH21	1.97	0.74
11:I2:1048:GLU:HG2	17:O3:288:GLU:CD	2.13	0.74
11:I2:1104:LEU:HG	16:N3:433:GLU:CD	2.06	0.74
11:I3:1278:ALA:O	26:X1:520:GLU:CA	2.35	0.74
21:S1:176:MET:HE1	21:S1:232:LEU:HD12	1.69	0.74
21:S2:408:THR:HG22	21:S2:418:TYR:HB2	1.69	0.74
21:S3:681:SER:C	21:S4:1144:LEU:O	2.31	0.74
22:T1:736:LEU:HB2	31:c5:19:THR:CG2	0.91	0.74
23:U1:23:LYS:CG	31:c2:479:ILE:CA	2.66	0.74
23:U1:26:GLN:HG3	31:c2:563:ARG:HG3	1.68	0.74
23:U2:399:ILE:HG21	31:c4:554:LEU:HA	1.69	0.74
23:U2:426:TYR:O	31:c4:463:HIS:ND1	2.20	0.74
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB3	1.69	0.74
28:Z3:410:ASN:CB	30:b3:251:ILE:HB	2.16	0.74
28:Z3:524:VAL:HG13	30:b3:236:THR:CA	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:534:ASP:N	30:b3:164:CYS:CB	2.48	0.74
28:Z4:531:LYS:HD3	30:b4:182:PRO:C	2.11	0.74
1:A3:1056:PHE:CZ	6:D3:807:THR:C	2.63	0.74
1:A3:1153:LEU:CD1	3:A6:592:ASP:CG	2.60	0.74
1:A3:1186:TRP:HA	3:A6:641:ALA:HB3	1.67	0.74
1:A3:1201:ARG:HB3	2:A4:734:LEU:C	2.09	0.74
2:A4:642:ARG:HG3	3:A6:501:VAL:CB	1.96	0.74
2:A4:768:SER:N	3:A6:477:PHE:HD2	1.74	0.74
2:A4:801:THR:HB	3:A6:380:ALA:C	2.12	0.74
3:A5:1029:ILE:O	11:I5:69:GLY:O	2.04	0.74
6:D7:179:ASP:CG	11:I3:49:PRO:HB3	2.12	0.74
11:I1:923:GLY:N	15:M1:592:LEU:N	2.28	0.74
11:I1:945:LEU:HG	17:O1:257:ALA:C	2.13	0.74
11:I1:957:SER:HB3	20:R1:168:LEU:HA	1.69	0.74
11:I1:1019:LEU:HD13	16:N1:412:ASN:HD22	1.52	0.74
11:I1:1029:LEU:HB3	20:R1:174:ARG:HB2	0.78	0.74
11:I1:1103:LEU:O	16:N1:440:GLU:OE1	2.05	0.74
11:I2:962:ILE:CG2	20:R3:166:LEU:C	1.78	0.74
11:I2:962:ILE:CD1	15:M3:596:ILE:HG22	2.11	0.74
11:I2:983:LEU:HD13	15:M3:621:ARG:NH2	2.01	0.74
11:I2:1052:LEU:H	17:O3:286:ILE:CB	2.01	0.74
11:I2:1054:ILE:HG23	17:O3:278:GLU:N	1.93	0.74
11:I2:1109:LEU:CD1	17:O3:290:TYR:CZ	2.69	0.74
21:S4:1032:ILE:CD1	21:S4:1054:LEU:HB2	2.14	0.74
23:U1:250:LEU:HD13	24:V1:317:GLY:HA3	1.70	0.74
23:U2:16:SER:C	31:c4:479:ILE:C	2.49	0.74
24:V2:633:THR:H	31:c2:85:ARG:NH2	1.85	0.74
26:X3:152:LEU:HD21	26:X3:182:LEU:HB3	1.70	0.74
28:Z1:549:LYS:HB3	30:b1:182:PRO:HG3	1.69	0.74
28:Z2:535:ILE:CG1	30:b2:182:PRO:HB2	1.90	0.74
28:Z3:561:GLN:CG	30:b3:235:LEU:CD2	2.61	0.74
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ1	1.81	0.74
1:A1:1221:ILE:N	2:A2:642:ARG:O	2.21	0.74
2:A2:973:GLU:CG	6:D1:205:LEU:HD13	2.16	0.74
2:A2:1142:PHE:HZ	3:A5:567:VAL:CB	1.54	0.74
1:A3:1056:PHE:HZ	6:D3:811:LEU:H	1.33	0.74
1:A3:1123:GLU:HB3	3:A6:599:ARG:HD2	1.69	0.74
1:A3:1227:PRO:O	3:A6:576:VAL:HG13	1.87	0.74
1:A3:1242:THR:O	3:A6:588:SER:HB2	1.85	0.74
1:A3:1257:VAL:CG1	3:A6:620:GLY:CA	2.58	0.74
1:A3:1260:ALA:HB1	3:A6:719:ARG:HD3	0.74	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:652:PRO:HA	3:A6:542:LEU:CD1	2.14	0.74
2:A4:705:ILE:H	3:A6:464:PRO:CD	2.01	0.74
2:A4:720:LEU:HD13	3:A6:494:PRO:CB	2.18	0.74
2:A4:726:ALA:HA	3:A6:575:LEU:CG	2.17	0.74
2:A4:760:LEU:HG	3:A6:98:LEU:HD13	1.68	0.74
2:A4:770:GLY:C	3:A6:528:ILE:HD12	2.11	0.74
2:A4:858:ALA:O	6:D3:604:ASP:OD2	2.04	0.74
2:A4:949:PHE:HB3	4:B6:348:PRO:HG3	1.68	0.74
2:A4:974:PRO:CA	6:D3:499:LEU:HD12	2.11	0.74
2:A4:989:MSE:CE	6:D3:240:ASP:OD2	2.35	0.74
11:I1:1048:GLU:CG	17:O1:288:GLU:N	2.49	0.74
11:I1:1070:LEU:N	16:N1:429:GLU:HB3	2.01	0.74
11:I2:939:ASN:CA	17:O3:264:ILE:C	2.46	0.74
11:I2:943:ALA:C	17:O3:260:LEU:HB2	2.12	0.74
11:I2:951:LYS:HG3	16:N3:400:LEU:O	1.88	0.74
11:I2:982:GLN:HB3	15:M3:621:ARG:NH2	2.03	0.74
11:I2:989:GLY:N	15:M3:614:ASP:CB	2.51	0.74
11:I2:1020:ALA:HB1	16:N3:407:ALA:CA	1.84	0.74
11:I4:1273:GLU:CA	26:X3:524:SER:HB3	2.16	0.74
11:I5:536:GLU:HA	25:W2:8:HIS:N	2.02	0.74
17:O4:109:PRO:CD	18:P4:318:PRO:HG2	2.17	0.74
22:T4:871:TYR:CE1	22:T4:910:MET:HB3	2.23	0.74
23:U2:398:ILE:HA	31:c4:531:TRP:O	1.09	0.74
23:U2:408:ASP:N	31:c4:542:LYS:HA	1.95	0.74
23:U2:437:ASN:HA	31:c4:428:ARG:HE	1.53	0.74
26:X2:152:LEU:HD21	26:X2:182:LEU:HB3	1.70	0.74
28:Z2:552:ASP:O	30:b2:233:TRP:CG	2.14	0.74
28:Z3:549:LYS:HB3	30:b3:182:PRO:HG3	1.70	0.74
28:Z4:526:ARG:CA	30:b4:206:ASN:OD1	2.33	0.74
1:A1:1204:TRP:NE1	2:A2:645:PHE:HE1	1.59	0.74
2:A2:780:GLU:HB3	6:D1:677:GLN:CB	2.17	0.74
2:A2:965:LYS:HA	6:D1:199:GLY:CA	2.16	0.74
2:A2:1148:ARG:O	5:C2:730:HIS:N	2.20	0.74
1:A3:1021:LEU:CD1	6:D3:819:ASN:HB2	2.17	0.74
1:A3:1162:ASN:N	3:A6:647:GLU:HA	2.03	0.74
1:A3:1189:LEU:N	3:A6:645:PHE:HB2	2.02	0.74
1:A3:1249:PHE:HD2	3:A6:633:MET:HG3	0.62	0.74
1:A3:1271:ILE:O	3:A6:550:VAL:CB	2.36	0.74
1:A3:1274:ASP:HB3	3:A6:556:PRO:CB	2.18	0.74
2:A4:652:PRO:N	3:A6:542:LEU:HD13	2.01	0.74
2:A4:678:LEU:CD2	3:A6:103:ARG:C	2.45	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:761:GLN:NE2	3:A6:546:ASN:N	2.34	0.74
2:A4:794:GLN:HG3	3:A6:144:PHE:CE1	2.23	0.74
8:F1:1262:HIS:CG	17:O2:259:ASP:CB	2.71	0.74
11:I1:833:PHE:C	17:O1:237:PRO:O	2.30	0.74
11:I1:877:ILE:HG23	17:O1:253:LEU:HB2	1.70	0.74
11:I1:967:SER:CA	20:R1:153:GLN:OE1	2.35	0.74
11:I1:981:VAL:CG1	20:R1:151:LYS:CG	2.66	0.74
11:I1:1024:PHE:HB3	16:N1:406:HIS:CB	2.03	0.74
11:I1:1667:GLN:NE2	11:I2:1662:ARG:HA	1.96	0.74
11:I2:873:ILE:C	17:O3:255:GLY:CA	2.61	0.74
11:I2:1050:SER:OG	17:O3:288:GLU:O	2.06	0.74
11:I3:815:ILE:CG2	26:X1:497:ARG:HB3	2.16	0.74
22:T1:745:ARG:HA	31:c5:27:MET:HE1	0.87	0.74
23:U1:402:GLY:CA	31:c2:551:LEU:N	2.39	0.74
28:Z2:549:LYS:HB3	30:b2:182:PRO:HG3	1.69	0.74
28:Z3:406:ARG:HG3	30:b3:252:ALA:HB3	1.68	0.74
28:Z4:527:SER:HA	30:b4:204:GLU:CB	2.17	0.74
2:A2:867:GLU:HB2	6:D1:609:ILE:HG12	1.70	0.74
2:A2:1142:PHE:CB	3:A5:130:ILE:CA	2.59	0.74
1:A3:1236:GLN:HE21	3:A6:573:ARG:HH11	1.36	0.74
1:A3:1271:ILE:O	3:A6:550:VAL:HB	1.87	0.74
2:A4:75:LEU:O	3:A6:323:THR:CG2	2.18	0.74
2:A4:789:LEU:HD21	3:A6:146:LYS:CA	2.08	0.74
2:A4:854:VAL:CG1	3:A6:171:HIS:CG	2.60	0.74
2:A4:897:ASN:CA	3:A6:165:PHE:HD1	2.00	0.74
2:A4:985:ALA:HB1	6:D3:501:LEU:H	1.51	0.74
2:A4:1054:SER:HB3	6:D4:762:ARG:NE	2.03	0.74
3:A5:1313:LYS:HB2	28:Z2:830:LEU:C	2.12	0.74
3:A5:1395:LYS:CG	28:Z2:870:ILE:O	2.35	0.74
3:A6:442:ARG:CZ	6:D3:692:LEU:CD2	2.66	0.74
11:I1:873:ILE:C	17:O1:251:ILE:HG23	2.11	0.74
11:I1:879:VAL:HG12	17:O1:247:TRP:HB2	1.70	0.74
11:I1:962:ILE:HD11	15:M1:596:ILE:CG2	2.16	0.74
11:I1:1014:ASN:CA	16:N1:411:GLN:C	2.60	0.74
11:I1:1046:HIS:CB	17:O1:283:ALA:HB3	2.17	0.74
11:I1:1642:LEU:HD13	11:I2:1669:ARG:HH12	0.68	0.74
11:I2:874:LEU:HA	17:O3:255:GLY:H	1.50	0.74
11:I2:921:GLU:CA	15:M3:592:LEU:HG	2.17	0.74
11:I2:978:LYS:HZ2	20:R3:155:GLU:HB2	1.52	0.74
11:I2:1037:THR:CG2	20:R3:173:LEU:HD23	2.17	0.74
11:I2:1067:PHE:CD2	16:N3:428:ASP:O	2.40	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:767:ASP:OD1	11:I3:771:ASN:ND2	2.20	0.74
21:S1:597:ILE:H	21:S2:1119:LEU:N	1.86	0.74
22:T2:871:TYR:CE1	22:T2:910:MET:HB3	2.23	0.74
26:X2:299:SER:CB	34:i:333:LEU:HB2	2.17	0.74
26:X2:329:ARG:HH21	34:i:475:ILE:CG1	1.94	0.74
28:Z1:561:GLN:OE1	30:b1:237:LEU:N	2.19	0.74
28:Z2:531:LYS:HD3	30:b2:182:PRO:C	2.11	0.74
28:Z4:557:CYS:HB2	30:b4:210:ARG:NH1	1.97	0.74
1:A3:1201:ARG:HB3	2:A4:735:ALA:CA	2.17	0.74
1:A3:1271:ILE:CG1	3:A6:550:VAL:CB	2.39	0.74
1:A3:1306:PRO:HB2	3:A6:715:GLU:OE1	1.88	0.74
2:A4:719:ARG:CG	3:A6:514:GLY:H	2.00	0.74
2:A4:792:VAL:CG2	3:A6:187:THR:OG1	2.35	0.74
2:A4:818:LEU:HD21	3:A6:146:LYS:NZ	2.02	0.74
2:A4:965:LYS:HE2	6:D3:196:ILE:C	2.13	0.74
3:A5:1135:ARG:HE	5:C5:743:LEU:HD12	1.52	0.74
3:A5:1312:ARG:NH2	28:Z2:838:GLN:HA	2.02	0.74
3:A6:1399:ARG:HD3	28:Z4:965:TYR:CB	2.17	0.74
6:D5:500:LYS:HE3	31:c3:472:GLU:HG3	1.70	0.74
8:F1:1202:TYR:HD1	17:O2:252:VAL:CG2	1.99	0.74
9:G1:260:THR:HG23	17:O2:259:ASP:HB3	1.69	0.74
11:I1:911:PRO:CA	15:M1:584:GLN:NE2	2.50	0.74
11:I1:934:LEU:CD1	15:M1:599:ILE:O	2.36	0.74
11:I1:1041:GLN:H	15:M1:620:VAL:CG2	2.01	0.74
11:I1:1667:GLN:CD	11:I2:1665:LEU:CG	2.59	0.74
11:I1:1667:GLN:C	11:I2:1664:PHE:C	2.22	0.74
11:I2:982:GLN:HB3	15:M3:621:ARG:HH22	1.50	0.74
11:I2:1067:PHE:CD1	16:N3:433:GLU:N	2.50	0.74
11:I2:1067:PHE:CD1	16:N3:429:GLU:O	2.40	0.74
11:I3:1267:LEU:HD23	26:X1:497:ARG:HH21	1.50	0.74
17:O4:110:LEU:H	18:P4:318:PRO:CB	1.99	0.74
21:S3:682:ASN:C	21:S3:684:THR:HA	2.13	0.74
22:T1:871:TYR:CE1	22:T1:910:MET:HB3	2.23	0.74
23:U2:17:ASP:N	31:c4:468:THR:CB	2.50	0.74
23:U2:24:ILE:CG1	31:c4:481:ILE:O	2.36	0.74
23:U2:442:LEU:CD1	31:c4:462:HIS:HD2	2.01	0.74
23:U3:250:LEU:HD13	24:V3:317:GLY:HA3	1.70	0.74
26:X2:198:GLU:HG3	34:i:335:HIS:O	1.83	0.74
26:X2:303:PHE:HE2	34:i:421:ILE:HD11	1.53	0.74
26:X2:309:LEU:N	34:i:405:TYR:CA	2.29	0.74
26:X2:361:LEU:HD11	34:i:441:LEU:HD11	1.66	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y1:41:ASP:HB2	29:a1:231[B]:HIS:CE1	2.18	0.74
28:Z3:443:LEU:HD21	30:b3:250:GLY:HA3	1.68	0.74
28:Z3:549:LYS:HB3	30:b3:182:PRO:CD	2.17	0.74
28:Z4:531:LYS:HD2	30:b4:182:PRO:C	2.05	0.74
2:A2:780:GLU:CA	6:D1:677:GLN:C	2.61	0.74
2:A2:827:ILE:O	2:A2:863:GLN:HB3	0.92	0.74
2:A2:1054:SER:O	6:D2:762:ARG:CD	2.27	0.74
2:A2:1130:ARG:C	3:A5:141:GLY:CA	2.59	0.74
1:A3:1190:ILE:HD11	3:A6:617:VAL:HG12	1.67	0.74
1:A3:1237:LEU:CB	3:A6:597:GLU:CG	2.58	0.74
2:A4:198:VAL:O	4:B4:353:LEU:HB2	1.88	0.74
2:A4:546:ASN:OD1	3:A6:105:GLY:HA2	1.88	0.74
2:A4:689:LYS:HB3	3:A6:378:ILE:HD13	1.70	0.74
2:A4:702:SER:HB3	3:A6:379:VAL:CG1	2.13	0.74
2:A4:717:VAL:CG1	3:A6:492:SER:C	2.59	0.74
2:A4:727:ASN:CG	3:A6:497:GLY:CA	2.61	0.74
2:A4:772:SER:HB2	3:A6:477:PHE:HD1	0.68	0.74
2:A4:780:GLU:OE1	3:A6:523:ASN:OD1	2.06	0.74
2:A4:851:ASP:C	3:A6:170:THR:N	2.46	0.74
2:A4:983:LEU:HD12	6:D3:553:PHE:CA	2.18	0.74
3:A5:220:VAL:HG13	5:C2:738:ASP:CB	2.18	0.74
3:A5:1024:ASP:C	11:I5:98:ALA:HB3	2.12	0.74
3:A6:442:ARG:CD	6:D3:692:LEU:N	2.51	0.74
9:G1:250:THR:HB	15:M2:605:THR:HG22	1.69	0.74
11:I1:987:GLY:HA2	15:M1:614:ASP:CA	2.18	0.74
11:I1:1024:PHE:HB3	16:N1:406:HIS:ND1	2.02	0.74
11:I2:1017:VAL:HG13	16:N3:410:MET:CB	2.17	0.74
11:I2:1109:LEU:CD2	17:O3:290:TYR:CE2	2.71	0.74
17:O2:111:TYR:H	18:P2:325:ILE:HG21	1.31	0.74
22:T3:871:TYR:CE1	22:T3:910:MET:HB3	2.23	0.74
23:U2:48:GLN:CB	31:c4:472:GLU:CD	2.61	0.74
23:U2:397:ASP:CG	31:c4:551:LEU:CD2	2.61	0.74
28:Z1:531:LYS:HD3	30:b1:182:PRO:C	2.12	0.74
28:Z3:561:GLN:OE1	30:b3:237:LEU:N	2.19	0.74
28:Z4:549:LYS:HB3	30:b4:182:PRO:CD	2.17	0.74
1:A1:868:GLN:HA	6:D3:280:GLN:CB	2.17	0.73
1:A1:1197:ALA:HB3	2:A2:728:LYS:HZ1	0.92	0.73
1:A1:1223:GLU:OE1	2:A2:761:GLN:CG	2.36	0.73
2:A2:909:LYS:N	6:D1:552:TYR:CZ	2.55	0.73
2:A2:980:ARG:HH21	6:D1:503:LEU:CG	2.00	0.73
2:A2:980:ARG:HG3	6:D1:526:LEU:CB	2.16	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1196:GLU:C	3:A6:678:LEU:CD2	2.61	0.73
1:A3:1311:ARG:HG2	3:A6:712:THR:HG23	1.68	0.73
2:A4:908:LEU:HG	6:D3:601:PHE:C	2.13	0.73
2:A4:978:ASP:N	6:D3:467:PHE:CE1	2.48	0.73
3:A5:1026:PRO:C	11:I5:67:LYS:HA	2.03	0.73
3:A5:1373:GLY:C	28:Z2:814:THR:CB	2.58	0.73
3:A6:442:ARG:CZ	6:D3:692:LEU:HD23	2.18	0.73
6:D7:176:SER:CB	11:I3:95:LYS:HZ3	1.99	0.73
11:I1:797:LEU:CD2	17:O1:245:GLU:CG	2.64	0.73
11:I1:884:LEU:HD21	15:M1:595:MET:SD	2.27	0.73
11:I2:994:ALA:HB1	17:O3:270:THR:N	2.00	0.73
11:I2:1020:ALA:HB3	16:N3:410:MET:CB	2.17	0.73
11:I2:1049:LEU:O	17:O3:287:LEU:C	2.30	0.73
11:I4:1274:HIS:CB	26:X3:525:ILE:HG13	2.18	0.73
15:M3:483:LYS:HZ3	16:N4:327:LYS:HE3	1.49	0.73
21:S2:682:ASN:C	21:S2:684:THR:HA	2.13	0.73
23:U2:415:THR:CB	31:c4:541:ARG:HH11	1.76	0.73
23:U4:70:LEU:HD22	23:U4:343:ILE:HD11	1.68	0.73
28:Z1:524:VAL:HG13	30:b1:236:THR:CA	2.16	0.73
28:Z4:410:ASN:CB	30:b4:251:ILE:HB	2.16	0.73
2:A2:823:VAL:O	2:A2:856:PHE:CE1	2.40	0.73
2:A2:1143:LEU:H	3:A5:129:ASN:HB3	1.52	0.73
1:A3:1121:LEU:C	3:A6:599:ARG:HH21	1.95	0.73
1:A3:1164:TYR:CD1	3:A6:643:ALA:C	2.66	0.73
1:A3:1167:CYS:H	3:A6:594:LEU:HD23	1.52	0.73
1:A3:1193:SER:HA	3:A6:610:THR:C	2.13	0.73
2:A4:80:LYS:O	3:A6:324:ARG:NH1	2.20	0.73
2:A4:598:VAL:CG2	3:A6:504:PRO:HD3	2.03	0.73
2:A4:607:ARG:HG2	3:A6:505:ALA:HB3	1.70	0.73
2:A4:801:THR:CA	3:A6:319:TYR:OH	2.36	0.73
2:A4:1151:THR:CG2	5:C4:734:VAL:CB	2.61	0.73
3:A5:172:PRO:HD3	5:C2:730:HIS:CD2	2.22	0.73
3:A5:1026:PRO:HD2	11:I5:66:LEU:HD23	0.81	0.73
3:A5:1361:ARG:O	28:Z2:842:LEU:CB	2.37	0.73
6:D5:243:LYS:HB2	31:c3:470:ARG:HH21	1.46	0.73
8:F1:158:PRO:CD	11:I1:1207:PRO:HD3	2.18	0.73
8:F1:995:THR:OG1	8:F1:1018:ARG:NH2	2.22	0.73
9:G2:256:GLN:HB3	17:O4:261:LYS:CB	2.17	0.73
11:I1:841:PHE:CE2	17:O1:243:LEU:HD12	2.08	0.73
11:I1:1037:THR:HG23	20:R1:170:LEU:H	1.52	0.73
11:I1:1038:ILE:HG13	20:R1:167:GLN:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1052:LEU:N	17:O1:286:ILE:HB	2.03	0.73
11:I1:1673:VAL:HG21	11:I2:1610:VAL:HG13	1.69	0.73
11:I2:840:LEU:CD2	17:O3:247:TRP:HB2	2.18	0.73
11:I2:1052:LEU:HG	17:O3:283:ALA:HB1	1.70	0.73
11:I2:1109:LEU:CA	17:O3:290:TYR:CE2	2.70	0.73
23:U2:48:GLN:CB	31:c4:472:GLU:HG3	2.17	0.73
23:U2:70:LEU:HD22	23:U2:343:ILE:HD11	1.68	0.73
24:V2:686:GLU:CB	31:c2:57:GLU:CB	2.65	0.73
26:X2:204:PHE:HA	34:i:443:THR:C	2.12	0.73
26:X2:309:LEU:HD21	34:i:396:HIS:HB2	1.68	0.73
28:Z2:561:GLN:OE1	30:b2:237:LEU:N	2.19	0.73
28:Z3:410:ASN:HD21	30:b3:252:ALA:HB2	0.91	0.73
28:Z4:524:VAL:N	30:b4:238:ASN:CA	2.49	0.73
28:Z4:549:LYS:HB3	30:b4:182:PRO:HG3	1.69	0.73
28:Z4:556:ASN:HD21	30:b4:166:LEU:CD2	2.02	0.73
1:A3:1183:LEU:HD13	3:A6:635:ARG:HA	1.69	0.73
1:A3:1192:GLN:CA	3:A6:611:ILE:HG22	1.82	0.73
1:A3:1200:ARG:HH12	3:A6:608:VAL:CB	2.00	0.73
1:A3:1228:TYR:CE2	3:A6:556:PRO:HG3	2.23	0.73
2:A4:548:LEU:HB3	3:A6:105:GLY:HA3	1.69	0.73
2:A4:680:LEU:HD21	3:A6:470:ARG:HE	1.53	0.73
2:A4:793:SER:OG	3:A6:146:LYS:HD3	1.88	0.73
2:A4:802:TYR:CD2	3:A6:380:ALA:CB	2.64	0.73
2:A4:852:ASP:OD1	3:A6:169:TYR:HB3	1.87	0.73
2:A4:872:ALA:CA	6:D3:565:MET:HE3	2.14	0.73
3:A5:165:PHE:H	5:C2:743:LEU:CA	1.99	0.73
3:A5:1027:HIS:CE1	11:I5:65:LYS:CA	2.69	0.73
3:A5:1027:HIS:N	11:I5:66:LEU:HG	2.03	0.73
3:A5:1403:MSE:CB	28:Z2:920:SER:N	2.21	0.73
3:A6:520:GLU:HG2	6:D3:639:LEU:CG	2.18	0.73
9:G2:256:GLN:NE2	9:G2:263:MET:SD	2.60	0.73
11:I1:846:ILE:HB	15:M1:594:LYS:HD2	1.66	0.73
11:I1:1048:GLU:HA	20:R1:143:PHE:CE1	2.23	0.73
11:I1:1070:LEU:C	16:N1:429:GLU:HG2	2.13	0.73
11:I1:1108:PRO:HB2	16:N1:442:GLU:HB3	1.70	0.73
11:I1:1666:THR:HG21	11:I2:1602:PHE:HD1	1.53	0.73
11:I1:1668:HIS:H	11:I2:1664:PHE:C	1.81	0.73
11:I2:951:LYS:CD	16:N3:403:VAL:N	2.40	0.73
11:I2:966:TRP:CH2	20:R3:167:GLN:HG2	2.22	0.73
11:I2:995:SER:H	17:O3:271:GLU:CB	1.99	0.73
11:I2:1046:HIS:O	17:O3:284:LYS:CA	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1058:GLY:CA	17:O3:277:GLU:O	2.36	0.73
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG22	1.64	0.73
21:S1:686:ALA:CB	21:S2:1152:VAL:HA	2.18	0.73
21:S3:176:MET:HE1	21:S3:232:LEU:HD12	1.69	0.73
21:S3:408:THR:HG22	21:S3:418:TYR:HB2	1.70	0.73
21:S3:1032:ILE:CD1	21:S3:1054:LEU:HB2	2.14	0.73
23:U1:202:LEU:HB3	31:c1:633:PHE:H	0.92	0.73
23:U2:250:LEU:HD13	24:V2:317:GLY:HA3	1.70	0.73
23:U2:391:HIS:HB3	31:c4:476:PRO:O	1.87	0.73
23:U2:430:PRO:O	31:c4:457:LEU:O	2.06	0.73
23:U4:250:LEU:HD13	24:V4:317:GLY:HA3	1.70	0.73
24:V3:483:GLU:CD	24:V3:514:ARG:HH22	1.96	0.73
26:X2:309:LEU:CD2	34:i:396:HIS:CA	2.66	0.73
26:X2:361:LEU:HD21	34:i:441:LEU:HD21	1.68	0.73
2:A2:1145:GLY:HA3	3:A5:129:ASN:HD22	1.38	0.73
1:A3:1099:GLN:HA	11:I2:1414:CYS:O	1.88	0.73
1:A3:1198:GLU:N	3:A6:678:LEU:HG	1.77	0.73
1:A3:1224:PRO:CA	3:A6:496:THR:C	2.52	0.73
1:A3:1241:ARG:HH12	3:A6:593:ALA:HA	0.63	0.73
2:A4:80:LYS:CG	3:A6:323:THR:CB	2.66	0.73
2:A4:691:LYS:CG	3:A6:316:ARG:NE	2.30	0.73
2:A4:757:LEU:HD12	3:A6:543:GLY:C	2.10	0.73
2:A4:867:GLU:CB	6:D3:605:THR:CG2	2.67	0.73
3:A6:520:GLU:CD	6:D3:636:ASP:HA	2.13	0.73
3:A6:565:THR:CB	6:D3:633:LYS:O	2.32	0.73
3:A6:1367:THR:HG21	28:Z4:876:LEU:CB	2.18	0.73
11:I1:877:ILE:HG21	17:O1:253:LEU:C	2.13	0.73
11:I1:884:LEU:CD1	17:O1:246:LEU:CD2	2.42	0.73
11:I1:955:LYS:CD	16:N1:397:GLU:O	2.36	0.73
11:I1:1017:VAL:H	16:N1:411:GLN:HG3	1.52	0.73
11:I1:1029:LEU:HB2	20:R1:171:ALA:C	2.02	0.73
11:I1:1029:LEU:HD13	20:R1:174:ARG:CD	2.10	0.73
11:I1:1029:LEU:C	20:R1:172:ASP:O	2.31	0.73
11:I1:1036:PRO:CD	15:M1:626:HIS:HB2	2.12	0.73
11:I2:977:ASN:CB	20:R3:147:LEU:HA	2.01	0.73
11:I2:980:ILE:HD11	20:R3:147:LEU:N	2.03	0.73
11:I2:1055:GLU:CG	17:O3:277:GLU:O	2.35	0.73
11:I2:1426:SER:OG	12:J2:263:MET:SD	2.45	0.73
11:I3:1426:SER:OG	12:J3:263:MET:SD	2.45	0.73
24:V2:483:GLU:CD	24:V2:514:ARG:HH22	1.96	0.73
24:V3:292:ILE:HD12	24:V3:292:ILE:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:524:VAL:CB	30:b3:236:THR:CG2	2.32	0.73
32:g:112:MET:HE3	32:g:151:MET:HG2	1.69	0.73
2:A2:1142:PHE:CA	3:A5:128:HIS:O	2.36	0.73
1:A3:1162:ASN:O	3:A6:649:GLY:N	2.22	0.73
1:A3:1230:TYR:CD1	3:A6:613:ALA:CB	2.70	0.73
1:A3:1236:GLN:HE21	3:A6:573:ARG:HE	1.28	0.73
2:A4:89:LEU:C	3:A6:406:LEU:HA	1.97	0.73
2:A4:93:ASP:HB2	3:A6:429:LEU:C	2.08	0.73
2:A4:534:PRO:O	3:A6:370:PRO:HD3	1.88	0.73
2:A4:733:GLY:CA	3:A6:93:ASP:C	2.56	0.73
2:A4:825:ARG:HA	3:A6:138:LEU:HD12	1.65	0.73
2:A4:886:PHE:CG	3:A6:174:PRO:O	2.42	0.73
3:A5:1378:GLY:C	28:Z2:812:LEU:CB	2.61	0.73
3:A6:484:PRO:CB	6:D3:672:GLU:OE2	2.35	0.73
3:A6:1135:ARG:HE	5:C6:743:LEU:HD12	1.53	0.73
3:A6:1359:LEU:O	28:Z4:918:PHE:CB	2.36	0.73
3:A6:1413:SER:CB	28:Z4:994:ILE:CB	2.67	0.73
8:F2:995:THR:OG1	8:F2:1018:ARG:NH2	2.21	0.73
11:I1:967:SER:OG	15:M1:628:ALA:CB	2.37	0.73
11:I1:1048:GLU:OE2	20:R1:143:PHE:HA	1.89	0.73
11:I2:955:LYS:NZ	16:N3:400:LEU:HD12	2.04	0.73
11:I2:962:ILE:HB	15:M3:596:ILE:CG2	2.18	0.73
11:I4:1182:GLN:HG3	12:J4:245:GLU:OE2	1.89	0.73
17:O3:158:GLU:HG2	18:P3:315:GLU:CA	2.19	0.73
21:S1:1032:ILE:CD1	21:S1:1054:LEU:HB2	2.14	0.73
23:U1:38:ILE:CG1	31:c2:474:ASN:N	2.52	0.73
23:U2:394:ILE:HG22	31:c4:535:VAL:CB	2.15	0.73
26:X2:336:LEU:HD11	34:i:478:PRO:N	2.03	0.73
26:X2:365:ILE:HG13	34:i:421:ILE:C	2.13	0.73
28:Z2:401:THR:C	30:b2:254:SER:OG	2.25	0.73
28:Z3:527:SER:HA	30:b3:204:GLU:CB	2.17	0.73
1:A1:1220:PRO:O	2:A2:645:PHE:CD1	2.41	0.73
2:A2:874:VAL:HG13	6:D1:611:LYS:HG2	1.66	0.73
2:A2:986:THR:HG22	6:D1:504:LYS:CD	1.92	0.73
1:A3:1198:GLU:HB3	3:A6:678:LEU:CA	2.18	0.73
1:A3:1328:ARG:HH21	3:A6:127:HIS:C	1.94	0.73
2:A4:173:ASN:ND2	6:D3:762:ARG:CB	2.51	0.73
2:A4:555:VAL:H	3:A6:458:THR:CA	2.01	0.73
2:A4:754:HIS:CA	3:A6:543:GLY:HA3	2.17	0.73
2:A4:874:VAL:CB	6:D3:571:SER:H	1.95	0.73
2:A4:893:LEU:CD2	3:A6:176:LEU:HA	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:899:THR:N	3:A6:178:GLY:CA	2.16	0.73
3:A5:996:ASN:HB3	11:I5:56:ARG:O	1.88	0.73
3:A5:1160:GLN:HE21	5:C5:740:ARG:HD2	1.52	0.73
3:A6:483:HIS:CB	6:D3:675:ARG:CD	2.64	0.73
8:F1:1264:ARG:CZ	17:O2:264:ILE:HD13	2.19	0.73
9:G1:254:ASN:OD1	15:M2:605:THR:CB	2.33	0.73
11:I1:917:TYR:CE2	15:M1:586:ASP:O	2.41	0.73
11:I1:986:ASN:H	15:M1:612:PRO:C	1.72	0.73
11:I1:1070:LEU:H	16:N1:429:GLU:HB3	1.53	0.73
11:I2:888:GLU:HG3	16:N3:393:ILE:HG22	1.69	0.73
11:I2:898:VAL:HG21	17:O3:237:PRO:N	2.03	0.73
11:I2:988:GLU:O	15:M3:608:LYS:CE	2.35	0.73
11:I4:1274:HIS:NE2	26:X3:523:LEU:O	2.16	0.73
11:I4:1426:SER:OG	12:J4:263:MET:SD	2.45	0.73
21:S1:1037:CYS:HB3	21:S1:1039:GLU:HG2	1.70	0.73
21:S2:1016:LYS:CE	21:S2:1039:GLU:HG3	2.19	0.73
21:S2:1037:CYS:HB3	21:S2:1039:GLU:HG2	1.70	0.73
23:U1:21:GLU:CA	31:c2:471:LEU:HG	2.19	0.73
23:U2:15:PHE:CD2	31:c4:477:GLU:CB	2.72	0.73
23:U2:435:PHE:CE1	31:c4:539:ILE:HB	2.23	0.73
26:X1:152:LEU:HD21	26:X1:182:LEU:HB3	1.70	0.73
26:X1:401:LYS:HB3	37:k2:450:HIS:CE1	2.24	0.73
26:X1:403:HIS:HE1	37:k2:450:HIS:CD2	1.69	0.73
26:X2:315:GLN:CA	34:i:399:PRO:HB2	2.18	0.73
27:Y1:329:ARG:HG2	27:Y1:344:VAL:HG22	1.70	0.73
31:c4:368:PHE:CZ	31:c4:372:ILE:HD11	2.24	0.73
33:h:126:MET:HE2	33:h:151:ALA:HB2	1.71	0.73
2:A2:1094:ILE:CD1	6:D2:708:ASP:OD1	2.37	0.73
2:A2:1144:ASP:N	3:A5:129:ASN:CG	2.47	0.73
1:A3:1193:SER:HA	3:A6:610:THR:O	1.89	0.73
1:A3:1240:HIS:HE1	3:A6:118:SER:HA	1.49	0.73
1:A3:1266:GLY:H	3:A6:716:ASN:HD22	0.74	0.73
1:A3:1311:ARG:HG3	3:A6:711:VAL:HG12	1.70	0.73
2:A4:616:ALA:HB2	3:A6:509:LYS:HB3	1.69	0.73
2:A4:687:LEU:HD22	3:A6:403:ARG:CG	2.18	0.73
2:A4:717:VAL:CB	3:A6:512:GLU:OE1	2.36	0.73
2:A4:854:VAL:HG12	3:A6:174:PRO:CG	2.12	0.73
3:A5:999:SER:O	11:I5:64:LYS:HE3	1.88	0.73
3:A6:442:ARG:CZ	6:D3:741:ILE:HA	2.17	0.73
3:A6:520:GLU:CB	6:D3:639:LEU:CG	2.66	0.73
9:G1:263:MET:HE3	17:O2:256:TYR:CZ	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:927:HIS:CD2	15:M1:597:LYS:HD2	2.17	0.73
11:I1:951:LYS:CB	17:O1:253:LEU:HD11	2.18	0.73
11:I1:1043:LEU:HD22	16:N1:430:ARG:HA	1.69	0.73
11:I1:1669:ARG:HD2	11:I2:1605:LEU:HD13	0.80	0.73
11:I2:920:PHE:HZ	17:O3:247:TRP:CZ3	2.07	0.73
11:I2:948:ALA:HB3	17:O3:256:TYR:HB3	1.60	0.73
11:I2:955:LYS:HZ2	17:O3:249:ARG:HH22	1.34	0.73
11:I2:976:ARG:HH21	20:R3:143:PHE:HA	1.53	0.73
11:I2:978:LYS:HZ3	20:R3:152:LYS:C	1.97	0.73
11:I2:982:GLN:HB3	15:M3:621:ARG:CZ	2.18	0.73
11:I2:1109:LEU:CB	16:N3:438:LEU:HD23	2.17	0.73
11:I3:617:ARG:NH1	11:I3:658:ARG:O	2.22	0.73
11:I4:617:ARG:NH1	11:I4:658:ARG:O	2.22	0.73
21:S1:682:ASN:C	21:S1:684:THR:HA	2.13	0.73
21:S4:682:ASN:C	21:S4:684:THR:HA	2.13	0.73
23:U2:438:GLU:H	31:c4:195:ILE:HD11	1.49	0.73
23:U2:442:LEU:HD12	31:c4:462:HIS:HD2	1.52	0.73
26:X2:364:TYR:HD2	34:i:421:ILE:O	1.59	0.73
28:Z2:557:CYS:HB2	30:b2:210:ARG:NH1	1.97	0.73
28:Z3:523:ASP:CG	30:b3:239:THR:OG1	2.30	0.73
28:Z3:539:GLU:HB2	30:b3:164:CYS:C	2.14	0.73
1:A1:868:GLN:C	6:D3:280:GLN:CG	2.59	0.73
2:A4:761:GLN:OE1	3:A6:547:GLU:CB	2.37	0.73
2:A4:777:LEU:CD2	3:A6:526:ILE:HA	2.19	0.73
2:A4:822:ILE:HG23	3:A6:147:LEU:HD12	1.70	0.73
2:A4:866:SER:CA	6:D3:598:ILE:HG12	2.18	0.73
3:A5:220:VAL:CG1	5:C2:739:MET:HG2	2.18	0.73
3:A6:1372:THR:CG2	28:Z4:833:ASP:CB	2.67	0.73
8:F2:1088:GLU:HG2	17:O4:248:SER:O	1.88	0.73
9:G1:255:LEU:CD1	17:O2:258:GLU:H	2.01	0.73
11:I1:913:ALA:N	15:M1:584:GLN:CD	2.47	0.73
11:I1:1045:PHE:CE1	16:N1:434:LEU:C	2.58	0.73
11:I2:917:TYR:H	15:M3:586:ASP:C	1.97	0.73
11:I3:1266:ALA:O	26:X1:528:GLU:C	2.32	0.73
21:S3:1016:LYS:CE	21:S3:1039:GLU:HG3	2.19	0.73
22:T1:721:ALA:CB	31:c5:34:LYS:HZ3	2.00	0.73
22:T1:819:ASN:CB	31:c5:57:GLU:OE2	2.36	0.73
23:U1:38:ILE:CB	31:c2:473:THR:CB	2.53	0.73
23:U2:35:PRO:CG	31:c4:531:TRP:CD1	2.72	0.73
23:U2:42:PHE:HD1	31:c4:478:SER:OG	1.71	0.73
28:Z2:400:LYS:O	30:b2:252:ALA:CA	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:539:GLU:HB2	30:b4:164:CYS:C	2.14	0.73
31:c5:368:PHE:CZ	31:c5:372:ILE:HD11	2.24	0.73
2:A2:1138:GLU:HB3	3:A5:147:LEU:CD2	2.19	0.73
2:A2:1160:GLN:CG	3:A5:176:LEU:HB3	2.18	0.73
1:A3:1090:SER:OG	6:D3:804:SER:CB	2.36	0.73
1:A3:1165:ASP:OD1	3:A6:648:TYR:CE2	2.42	0.73
1:A3:1198:GLU:CB	3:A6:678:LEU:C	2.61	0.73
1:A3:1236:GLN:HG3	3:A6:577:ASP:O	1.88	0.73
1:A3:1237:LEU:CG	3:A6:119:TRP:CZ2	2.71	0.73
2:A4:81:ALA:CB	3:A6:388:GLU:HB3	2.17	0.73
2:A4:616:ALA:HB2	3:A6:509:LYS:CB	2.19	0.73
2:A4:754:HIS:CE1	3:A6:685:ARG:NH2	2.56	0.73
2:A4:769:GLU:CB	3:A6:528:ILE:CG2	2.66	0.73
2:A4:793:SER:OG	3:A6:187:THR:C	2.32	0.73
2:A4:955:CYS:N	4:B6:345:LYS:HA	2.04	0.73
2:A4:976:LEU:CD2	6:D3:501:LEU:O	2.37	0.73
3:A5:165:PHE:H	5:C2:743:LEU:HB2	1.46	0.73
3:A5:1367:THR:HB	28:Z2:845:ILE:H	1.48	0.73
3:A5:1414:PHE:HD1	28:Z2:960:CYS:CB	2.01	0.73
3:A6:446:LEU:CD2	6:D3:726:SER:O	2.36	0.73
6:D7:480:PHE:CE2	11:I3:181:GLN:O	2.42	0.73
9:G1:266:ASP:O	16:N2:412:ASN:O	2.07	0.73
11:I2:617:ARG:NH1	11:I2:658:ARG:O	2.22	0.73
11:I2:846:ILE:HG23	15:M3:591:ASP:OD1	1.87	0.73
11:I2:900:ARG:C	17:O3:232:LYS:HE2	2.12	0.73
11:I2:956:ILE:O	20:R3:166:LEU:HD12	1.83	0.73
11:I2:978:LYS:O	20:R3:151:LYS:HG3	1.89	0.73
17:O3:151:LEU:HD22	18:P3:325:ILE:CG1	0.70	0.73
21:S4:1037:CYS:HB3	21:S4:1039:GLU:HG2	1.70	0.73
23:U1:139:VAL:HG21	31:c1:635:SER:OG	1.88	0.73
23:U2:26:GLN:CB	31:c4:491:VAL:HB	2.18	0.73
23:U2:432:TYR:HE1	31:c4:464:LEU:HA	1.48	0.73
26:X2:241:GLU:HG2	26:X2:328:LEU:HD13	1.71	0.73
28:Z3:530:LYS:NZ	30:b3:164:CYS:HA	2.04	0.73
1:A1:870:HIS:HB3	6:D3:279:HIS:CA	2.18	0.73
2:A2:198:VAL:O	4:B2:353:LEU:HB2	1.88	0.73
1:A3:1186:TRP:CZ3	3:A6:583:LEU:HD23	2.24	0.73
1:A3:1236:GLN:HE21	3:A6:573:ARG:CZ	2.00	0.73
1:A3:1264:ASN:O	3:A6:716:ASN:C	2.30	0.73
2:A4:685:ARG:NH1	3:A6:432:VAL:HG23	1.55	0.73
2:A4:713:ILE:N	3:A6:436:PRO:CD	2.44	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:778:PHE:N	3:A6:487:ASP:CG	2.46	0.73
2:A4:975:GLU:C	6:D3:496:LEU:C	2.56	0.73
3:A5:1406:GLY:CA	28:Z2:917:ASP:O	2.37	0.73
6:D5:715:GLU:HB3	31:c4:505:SER:OG	1.89	0.73
11:I1:924:ILE:O	15:M1:597:LYS:HG3	1.89	0.73
11:I1:953:LEU:N	16:N1:403:VAL:HG22	1.74	0.73
11:I1:980:ILE:CG1	20:R1:147:LEU:HD12	2.17	0.73
11:I1:1048:GLU:OE2	20:R1:143:PHE:CA	2.37	0.73
11:I1:1049:LEU:O	17:O1:291:ASP:N	2.21	0.73
11:I1:1635:HIS:CE1	11:I2:1677:LYS:CD	2.65	0.73
11:I2:900:ARG:O	17:O3:232:LYS:HE2	1.89	0.73
11:I2:911:PRO:CB	15:M3:584:GLN:HE22	1.81	0.73
11:I2:1037:THR:N	15:M3:623:LEU:HD22	2.04	0.73
11:I2:1052:LEU:HD23	16:N3:434:LEU:HD11	1.69	0.73
11:I2:1107:SER:N	16:N3:436:ALA:O	2.21	0.73
23:U2:437:ASN:N	31:c4:428:ARG:HH21	1.86	0.73
26:X2:196:ASP:C	34:i:364:TYR:CE2	2.66	0.73
26:X2:333:GLU:OE1	34:i:475:ILE:CG2	2.36	0.73
26:X2:336:LEU:CD2	34:i:478:PRO:HD2	2.09	0.73
28:Z1:400:LYS:O	30:b1:252:ALA:CA	2.37	0.73
28:Z1:530:LYS:NZ	30:b1:164:CYS:HA	2.04	0.73
28:Z2:524:VAL:HA	30:b2:236:THR:HG23	1.70	0.73
28:Z4:524:VAL:HA	30:b4:236:THR:HG23	1.70	0.73
2:A2:982:THR:CG2	6:D1:497:PHE:N	1.96	0.72
2:A2:1126:VAL:CG2	3:A5:135:PHE:CB	2.46	0.72
1:A3:835:THR:CG2	6:D1:302:PRO:HB2	2.05	0.72
1:A3:1153:LEU:HD13	3:A6:592:ASP:OD1	1.88	0.72
1:A3:1196:GLU:C	3:A6:678:LEU:HD23	2.14	0.72
2:A4:81:ALA:HB2	3:A6:388:GLU:HB2	1.71	0.72
2:A4:724:LEU:HB3	3:A6:496:THR:HG23	1.66	0.72
2:A4:757:LEU:CG	3:A6:544:PHE:N	2.50	0.72
2:A4:777:LEU:HD12	3:A6:467:LEU:HD13	1.67	0.72
2:A4:878:LEU:HB2	6:D3:567:LEU:HD13	0.73	0.72
3:A5:996:ASN:HB3	11:I5:56:ARG:C	2.10	0.72
11:I1:882:LYS:N	17:O1:249:ARG:CG	2.51	0.72
11:I1:1043:LEU:CD2	16:N1:430:ARG:HB2	2.19	0.72
11:I1:1061:ASP:CA	17:O1:279:ILE:HD12	2.19	0.72
11:I2:925:LEU:CA	15:M3:597:LYS:CG	2.30	0.72
11:I2:955:LYS:NZ	16:N3:400:LEU:CD1	2.48	0.72
11:I2:1020:ALA:C	16:N3:406:HIS:HA	2.08	0.72
11:I5:503:ARG:NH2	11:I5:504:ALA:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O3:102:LYS:HD3	18:P3:322:LYS:HZ2	1.53	0.72
23:U2:393:ALA:HA	31:c4:551:LEU:HB2	1.70	0.72
23:U2:394:ILE:O	31:c4:534:ALA:C	2.31	0.72
23:U2:439:SER:OG	31:c4:459:GLN:O	2.05	0.72
24:V4:292:ILE:HD12	24:V4:292:ILE:H	1.52	0.72
24:V4:483:GLU:CD	24:V4:514:ARG:HH22	1.96	0.72
26:X2:305:GLU:HA	34:i:315:LEU:CD2	2.19	0.72
28:Z2:443:LEU:HD21	30:b2:250:GLY:HA3	1.68	0.72
28:Z4:402:GLY:CA	30:b4:273:LYS:CB	2.66	0.72
28:Z4:524:VAL:CG2	30:b4:236:THR:HG22	2.19	0.72
1:A3:1088:ASN:CA	6:D3:808:ASN:ND2	2.52	0.72
1:A3:1165:ASP:CB	3:A6:598:VAL:HG23	1.98	0.72
1:A3:1189:LEU:CG	3:A6:614:ALA:CB	2.66	0.72
1:A3:1227:PRO:CB	3:A6:552:PHE:HE2	1.97	0.72
1:A3:1328:ARG:HD3	3:A6:127:HIS:O	1.88	0.72
2:A4:607:ARG:HG3	3:A6:505:ALA:HB3	1.69	0.72
2:A4:608:VAL:CG1	3:A6:100:SER:O	2.37	0.72
2:A4:648:TYR:CD2	3:A6:503:GLN:HB3	2.24	0.72
2:A4:789:LEU:CD2	3:A6:145:THR:O	2.36	0.72
2:A4:893:LEU:HD12	3:A6:175:GLU:OE2	1.87	0.72
3:A5:233:THR:CA	5:C2:738:ASP:N	2.49	0.72
9:G1:258:LYS:NZ	16:N2:408:MET:HE3	2.04	0.72
11:I1:617:ARG:NH1	11:I1:658:ARG:O	2.22	0.72
11:I1:853:ILE:CG2	17:O1:254:ARG:CD	2.54	0.72
11:I1:889:THR:H	17:O1:242:ARG:CZ	1.99	0.72
11:I1:899:LEU:HD21	17:O1:231:ASP:CG	2.13	0.72
11:I1:1182:GLN:HG3	12:J1:245:GLU:OE2	1.89	0.72
11:I2:183:LYS:O	11:I2:188:ARG:NH2	2.22	0.72
11:I2:950:LEU:CD2	16:N3:410:MET:HE3	2.16	0.72
11:I3:1278:ALA:N	26:X1:519:ILE:HB	2.02	0.72
11:I5:183:LYS:O	11:I5:188:ARG:NH2	2.22	0.72
17:O4:106:HIS:O	18:P4:318:PRO:HD3	1.88	0.72
22:T1:724:TYR:CE2	31:c5:31:TYR:CD2	2.77	0.72
23:U1:135:ARG:HE	31:c1:637:ASP:HB3	1.53	0.72
23:U2:403:SER:HB3	31:c4:551:LEU:CG	2.18	0.72
23:U2:406:GLU:C	31:c4:542:LYS:O	2.31	0.72
26:X2:204:PHE:CD2	34:i:445:GLN:O	2.36	0.72
26:X2:368:LEU:HB2	34:i:437:SER:C	2.14	0.72
28:Z1:556:ASN:N	30:b1:212:PHE:HB2	2.04	0.72
28:Z2:402:GLY:CA	30:b2:273:LYS:CB	2.66	0.72
28:Z2:530:LYS:NZ	30:b2:164:CYS:HA	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:400:LYS:O	30:b3:252:ALA:CA	2.37	0.72
28:Z4:555:LYS:HA	30:b4:234:LEU:H	1.54	0.72
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HG12	1.98	0.72
1:A1:1200:ARG:NH2	2:A2:642:ARG:HH22	1.87	0.72
2:A2:1142:PHE:CE1	3:A5:567:VAL:CG2	2.00	0.72
1:A3:1248:ILE:HD12	3:A6:587:VAL:HG22	0.74	0.72
2:A4:93:ASP:OD1	3:A6:429:LEU:CD2	2.21	0.72
2:A4:243:ARG:O	2:A4:287:LYS:NZ	2.22	0.72
2:A4:576:VAL:CG1	3:A6:509:LYS:CD	2.65	0.72
2:A4:707:THR:HG21	3:A6:400:THR:C	2.14	0.72
2:A4:720:LEU:CD2	3:A6:499:ILE:CD1	2.67	0.72
2:A4:755:GLN:C	3:A6:544:PHE:CB	2.60	0.72
2:A4:1114:ILE:CD1	5:C4:731:LYS:CB	2.58	0.72
3:A5:1406:GLY:C	28:Z2:921:THR:CB	2.62	0.72
9:G1:260:THR:OG1	17:O2:256:TYR:HA	1.89	0.72
11:I1:913:ALA:HB3	15:M1:584:GLN:CG	2.19	0.72
11:I1:922:ASP:CB	15:M1:589:GLY:HA2	2.15	0.72
11:I1:957:SER:CA	20:R1:166:LEU:CD1	2.66	0.72
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CB	2.02	0.72
11:I1:1610:VAL:HG11	11:I2:1669:ARG:NH2	2.04	0.72
11:I2:952:LEU:C	16:N3:403:VAL:CG2	2.63	0.72
11:I2:1031:ALA:C	20:R3:173:LEU:HA	2.13	0.72
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD2	2.36	0.72
17:O2:110:LEU:CG	18:P2:321:ILE:C	2.61	0.72
21:S1:408:THR:HG22	21:S1:418:TYR:HB2	1.70	0.72
23:U2:398:ILE:CB	31:c4:531:TRP:C	2.46	0.72
24:V1:339:LEU:CD1	31:c1:627:ASP:CG	2.61	0.72
26:X2:197:VAL:HG23	34:i:442:SER:N	2.03	0.72
26:X2:300:SER:H	34:i:368[B]:CYS:HA	1.54	0.72
26:X2:313:LEU:CB	34:i:471:ILE:HG21	2.19	0.72
26:X2:321:ALA:H	34:i:84:ARG:NH2	1.85	0.72
26:X3:241:GLU:HG2	26:X3:328:LEU:HD13	1.71	0.72
28:Z4:400:LYS:O	30:b4:252:ALA:CA	2.37	0.72
1:A1:1220:PRO:C	2:A2:645:PHE:HD1	1.94	0.72
1:A1:1399:ARG:CG	2:A2:884:ARG:CB	2.58	0.72
2:A2:867:GLU:HB2	6:D1:609:ILE:CG1	2.20	0.72
2:A2:1019:ARG:NH2	6:D1:237:PRO:C	2.46	0.72
2:A2:1138:GLU:CG	3:A5:562:LEU:HD11	2.19	0.72
1:A3:1056:PHE:HE2	6:D3:806:ASP:C	1.98	0.72
1:A3:1229:VAL:CG1	3:A6:574:ARG:CA	2.65	0.72
2:A4:548:LEU:CB	3:A6:105:GLY:CA	2.68	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:691:LYS:HD3	3:A6:330:LEU:CD2	2.20	0.72
2:A4:720:LEU:HD22	3:A6:494:PRO:C	2.06	0.72
2:A4:855:THR:HB	3:A6:168:ASP:N	2.04	0.72
3:A5:995:VAL:C	11:I5:61:LYS:HB2	2.14	0.72
3:A5:1369:ILE:HG12	28:Z2:832:PHE:H	1.54	0.72
3:A6:485:ASN:HB2	6:D3:674:TYR:H	1.47	0.72
8:F1:1137:GLN:HG3	17:O2:249:ARG:N	2.01	0.72
11:I1:962:ILE:HD12	20:R1:165:SER:N	1.97	0.72
11:I1:980:ILE:HD13	15:M1:622:VAL:H	1.43	0.72
11:I1:1541:GLU:HA	12:J2:298:PHE:O	1.89	0.72
11:I2:951:LYS:HE2	16:N3:404:GLU:CG	2.19	0.72
11:I2:980:ILE:CD1	15:M3:622:VAL:HG21	2.18	0.72
11:I2:1040:HIS:CG	16:N3:434:LEU:HD12	2.23	0.72
11:I3:503:ARG:NH2	11:I3:504:ALA:O	2.22	0.72
11:I3:1275:SER:CA	26:X1:522:MET:CB	2.64	0.72
11:I4:503:ARG:NH2	11:I4:504:ALA:O	2.22	0.72
23:U2:24:ILE:HG13	31:c4:482:LEU:HA	1.70	0.72
23:U2:48:GLN:CB	31:c4:472:GLU:CG	2.66	0.72
23:U2:75:TRP:CZ3	31:c4:552:ARG:HG2	2.24	0.72
26:X2:283:ASP:OD2	34:i:479:THR:HG21	1.87	0.72
26:X2:365:ILE:HG21	34:i:424:LEU:CB	2.19	0.72
28:Z1:557:CYS:HB2	30:b1:210:ARG:NH1	1.97	0.72
28:Z3:555:LYS:HA	30:b3:234:LEU:H	1.54	0.72
28:Z4:540:LEU:HA	30:b4:165:THR:HG23	1.71	0.72
30:b1:193:ARG:NH1	30:b1:199:GLN:OE1	2.21	0.72
31:c3:368:PHE:CZ	31:c3:372:ILE:HD11	2.24	0.72
1:A3:1048:ARG:CD	6:D3:790:ARG:NH2	2.53	0.72
1:A3:1254:LEU:H	3:A6:635:ARG:N	1.78	0.72
1:A3:1392:ARG:NE	3:A6:231:SER:CB	2.52	0.72
2:A4:227:SER:HB3	6:D3:709:ARG:CA	2.19	0.72
2:A4:550:VAL:CA	3:A6:455:LEU:HD21	2.20	0.72
2:A4:760:LEU:N	3:A6:388:GLU:CG	2.41	0.72
2:A4:868:GLN:OE1	6:D3:570:VAL:CB	2.37	0.72
2:A4:895:PRO:HA	4:B6:344:ALA:HB3	1.70	0.72
2:A4:975:GLU:O	6:D3:496:LEU:C	2.32	0.72
11:I1:918:SER:OG	16:N1:386:MET:CA	2.31	0.72
11:I1:976:ARG:CZ	15:M1:622:VAL:HG22	2.20	0.72
11:I1:1662:ARG:CG	11:I2:1603:ARG:HH12	2.02	0.72
11:I2:843:GLU:N	15:M3:587:GLU:OE2	2.22	0.72
11:I2:955:LYS:HG3	16:N3:403:VAL:HG23	1.71	0.72
11:I2:1021:ILE:HG13	16:N3:410:MET:CB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1110:SER:HB3	16:N3:435:ALA:CA	2.02	0.72
11:I5:617:ARG:NH1	11:I5:658:ARG:O	2.22	0.72
21:S4:176:MET:HE2	21:S4:212:LEU:CD1	2.11	0.72
23:U1:16:SER:HB2	31:c2:470:ARG:HE	1.48	0.72
23:U1:38:ILE:HG23	31:c2:473:THR:HG21	0.76	0.72
23:U2:20:LYS:CB	31:c4:480:CYS:SG	2.75	0.72
23:U2:37:ASN:CA	31:c4:559:ILE:N	2.40	0.72
26:X2:300:SER:CA	34:i:335:HIS:H	1.97	0.72
26:X2:315:GLN:N	34:i:399:PRO:C	2.47	0.72
26:X2:365:ILE:HG21	34:i:424:LEU:HB2	1.72	0.72
28:Z1:524:VAL:CB	30:b1:236:THR:CG2	2.32	0.72
28:Z3:557:CYS:C	30:b3:235:LEU:C	2.58	0.72
31:c5:385:LEU:HD23	31:c5:401:LEU:HD11	1.71	0.72
1:A1:875:LEU:CD1	6:D3:276:GLY:C	2.62	0.72
2:A2:225:THR:N	6:D1:709:ARG:NH1	2.38	0.72
2:A2:243:ARG:O	2:A2:287:LYS:NZ	2.22	0.72
2:A2:979:GLY:N	6:D1:472:PHE:HB3	1.94	0.72
2:A2:1139:ILE:CG1	3:A5:130:ILE:CG2	2.42	0.72
1:A3:1090:SER:HB2	6:D3:800:PRO:HA	1.71	0.72
1:A3:1192:GLN:N	3:A6:645:PHE:CD2	2.57	0.72
1:A3:1224:PRO:CA	3:A6:500:LYS:HB2	2.15	0.72
2:A4:544:PHE:HD1	3:A6:363:ALA:CB	2.01	0.72
2:A4:608:VAL:HG13	3:A6:100:SER:C	2.14	0.72
2:A4:615:LEU:HG	3:A6:511:PHE:N	2.01	0.72
2:A4:682:ARG:NH2	3:A6:103:ARG:O	2.22	0.72
2:A4:720:LEU:HD21	3:A6:499:ILE:HD12	1.72	0.72
2:A4:722:ASN:O	3:A6:605:TYR:OH	2.08	0.72
2:A4:825:ARG:NH2	3:A6:564:ASN:ND2	1.92	0.72
2:A4:898:LEU:CD2	4:B6:344:ALA:HA	2.20	0.72
2:A4:917:LEU:CB	4:B6:342:ARG:CD	2.65	0.72
2:A4:982:THR:HB	6:D3:494:LEU:HA	1.72	0.72
2:A4:982:THR:OG1	6:D3:494:LEU:O	2.07	0.72
3:A5:1315:VAL:CB	28:Z2:833:ASP:O	2.36	0.72
3:A6:444:ARG:HG3	6:D3:737:PHE:CE2	2.22	0.72
3:A6:520:GLU:HB3	6:D3:639:LEU:CG	2.20	0.72
11:I1:895:ARG:NE	17:O1:233:THR:HB	2.05	0.72
11:I1:919:ALA:O	15:M1:592:LEU:HB2	1.89	0.72
11:I1:985:ARG:HH11	20:R1:151:LYS:HE3	1.54	0.72
11:I1:1044:GLY:H	15:M1:616:LEU:HD11	1.54	0.72
11:I2:931:VAL:HG23	15:M3:600:ASN:O	1.89	0.72
11:I2:1032:THR:HB	20:R3:173:LEU:CD1	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1049:LEU:HG	17:O3:291:ASP:HB2	1.68	0.72
11:I2:1052:LEU:HD13	16:N3:438:LEU:CD2	2.20	0.72
21:S1:668:ILE:HA	21:S2:1146:ALA:HB3	1.66	0.72
21:S2:1032:ILE:CD1	21:S2:1054:LEU:HB2	2.14	0.72
21:S3:1037:CYS:HB3	21:S3:1039:GLU:HG2	1.70	0.72
21:S4:100:GLU:O	21:S4:103:ASP:N	2.21	0.72
23:U1:23:LYS:CG	31:c2:479:ILE:HA	2.19	0.72
23:U1:24:ILE:HD13	31:c2:467:GLU:OE2	0.91	0.72
23:U2:394:ILE:CD1	31:c4:538:LEU:HB2	2.20	0.72
23:U2:398:ILE:HG13	31:c4:535:VAL:CB	2.20	0.72
23:U2:430:PRO:HB3	31:c4:458:LYS:O	1.87	0.72
23:U2:432:TYR:HD1	31:c4:464:LEU:HB2	1.52	0.72
24:V1:483:GLU:CD	24:V1:514:ARG:HH22	1.96	0.72
27:Y2:329:ARG:HG2	27:Y2:344:VAL:HG22	1.70	0.72
28:Z2:539:GLU:HB2	30:b2:164:CYS:C	2.14	0.72
28:Z2:556:ASN:HD21	30:b2:166:LEU:CD2	2.01	0.72
2:A2:989:MSE:SE	6:D1:241:ALA:H	2.22	0.72
1:A3:1242:THR:HB	3:A6:584:GLY:C	2.15	0.72
2:A4:611:ILE:CG2	3:A6:508:LEU:HD12	2.12	0.72
2:A4:682:ARG:HG2	3:A6:432:VAL:O	1.88	0.72
2:A4:682:ARG:HH22	3:A6:105:GLY:HA3	1.54	0.72
2:A4:712:THR:C	3:A6:490:PHE:CE2	2.63	0.72
2:A4:767:ILE:O	3:A6:469:PHE:O	2.07	0.72
3:A6:132:ASP:OD2	6:D3:607:PRO:CA	2.38	0.72
3:A6:446:LEU:CD1	6:D3:722:LEU:H	2.03	0.72
8:F1:1137:GLN:HG3	17:O2:248:SER:HG	1.54	0.72
11:I1:953:LEU:N	16:N1:403:VAL:CB	2.53	0.72
11:I1:955:LYS:HE2	16:N1:397:GLU:HA	1.69	0.72
11:I1:987:GLY:CA	15:M1:614:ASP:N	2.52	0.72
11:I1:1113:LEU:C	16:N1:435:ALA:CB	2.60	0.72
11:I2:895:ARG:HA	17:O3:234:LEU:C	2.15	0.72
11:I2:981:VAL:CB	20:R3:147:LEU:CG	2.59	0.72
11:I2:985:ARG:H	15:M3:613:ASP:HA	0.91	0.72
11:I5:1236:TYR:HE1	29:a2:24[B]:GLY:C	1.97	0.72
23:U2:415:THR:OG1	31:c4:541:ARG:CZ	2.38	0.72
26:X2:329:ARG:CD	34:i:476:LEU:HD11	2.10	0.72
26:X4:152:LEU:HD21	26:X4:182:LEU:HB3	1.70	0.72
27:Y3:329:ARG:HG2	27:Y3:344:VAL:HG22	1.70	0.72
28:Z2:524:VAL:CG2	30:b2:236:THR:HG22	2.19	0.72
28:Z3:402:GLY:CA	30:b3:273:LYS:CB	2.66	0.72
28:Z3:556:ASN:N	30:b3:212:PHE:HB2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:870:HIS:ND1	6:D3:279:HIS:HE1	1.85	0.72
2:A2:826:ASN:CG	6:D1:633:LYS:HB2	1.80	0.72
2:A2:869:ALA:CA	6:D1:583:ILE:HG21	2.19	0.72
2:A2:973:GLU:HB3	6:D1:498:GLU:HG3	1.72	0.72
2:A2:985:ALA:CB	6:D1:500:LYS:H	2.01	0.72
1:A3:1122:LEU:N	3:A6:599:ARG:HH22	1.88	0.72
1:A3:1274:ASP:HB3	3:A6:556:PRO:CG	2.19	0.72
1:A3:1399:ARG:CD	2:A4:884:ARG:O	2.38	0.72
2:A4:87:GLN:HG2	3:A6:408:ALA:O	1.90	0.72
2:A4:543:GLY:CA	3:A6:364:HIS:C	2.62	0.72
2:A4:678:LEU:CD2	3:A6:431:PHE:CG	2.72	0.72
2:A4:727:ASN:HB2	3:A6:497:GLY:HA2	0.78	0.72
2:A4:774:VAL:HG11	3:A6:466:ALA:C	2.08	0.72
2:A4:898:LEU:HD11	4:B6:342:ARG:HB2	0.79	0.72
3:A5:178:GLY:N	5:C2:740:ARG:NH2	2.36	0.72
3:A5:234:LEU:HD21	5:C2:738:ASP:C	2.14	0.72
3:A6:133:LYS:CA	6:D3:604:ASP:CA	2.55	0.72
6:D7:176:SER:CB	11:I3:95:LYS:HZ1	1.99	0.72
11:I1:881:ILE:HD11	17:O1:253:LEU:CG	2.20	0.72
11:I1:881:ILE:H	17:O1:249:ARG:CA	2.02	0.72
11:I1:896:PRO:O	17:O1:232:LYS:CB	2.31	0.72
11:I1:955:LYS:CD	17:O1:249:ARG:HH22	2.03	0.72
11:I1:962:ILE:CD1	20:R1:164:PRO:O	2.36	0.72
11:I2:938:CYS:C	17:O3:261:LYS:C	2.57	0.72
11:I2:951:LYS:CE	16:N3:404:GLU:CB	2.64	0.72
11:I2:966:TRP:O	20:R3:150:ASN:O	2.07	0.72
11:I2:979:ALA:CB	20:R3:167:GLN:NE2	2.52	0.72
11:I3:183:LYS:O	11:I3:188:ARG:NH2	2.23	0.72
17:O3:158:GLU:HG3	18:P3:316:LEU:HB2	1.71	0.72
22:T1:753:TYR:OH	22:T1:856:MET:HE1	1.90	0.72
23:U2:42:PHE:CE1	31:c4:478:SER:CA	2.71	0.72
23:U2:410:SER:C	31:c4:541:ARG:CB	2.63	0.72
23:U2:435:PHE:CE2	31:c4:535:VAL:CG1	2.46	0.72
28:Z1:555:LYS:HB3	30:b1:212:PHE:HA	1.68	0.72
28:Z1:557:CYS:C	30:b1:235:LEU:C	2.58	0.72
2:A2:826:ASN:HB3	6:D1:633:LYS:O	1.90	0.72
2:A2:1142:PHE:CE1	3:A5:566:GLY:C	2.68	0.72
1:A3:1169:LEU:O	3:A6:589:ALA:O	2.08	0.72
1:A3:1172:HIS:CA	3:A6:587:VAL:O	2.37	0.72
1:A3:1188:ASN:HB2	3:A6:642:ARG:O	1.90	0.72
1:A3:1261:TYR:HD1	3:A6:621:GLN:CB	0.65	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:674:ASP:CG	3:A6:100:SER:OG	2.30	0.72
2:A4:692:VAL:CG1	3:A6:467:LEU:CA	2.54	0.72
2:A4:753:GLU:OE2	3:A6:95:TYR:O	2.07	0.72
2:A4:873:PRO:HD2	6:D3:569:CYS:SG	2.29	0.72
3:A5:1313:LYS:CA	28:Z2:833:ASP:CB	2.67	0.72
6:D2:622:PHE:HB2	6:D2:645:LEU:HD21	1.72	0.72
8:F1:1094:GLY:HA3	17:O2:237:PRO:O	1.89	0.72
11:I1:939:ASN:O	17:O1:262:ASP:CA	2.25	0.72
11:I1:980:ILE:HB	15:M1:618:GLN:HA	1.72	0.72
11:I1:981:VAL:HG13	20:R1:151:LYS:CB	2.01	0.72
11:I1:1036:PRO:HD2	15:M1:626:HIS:CB	2.12	0.72
11:I1:1052:LEU:HD23	16:N1:434:LEU:HD12	1.71	0.72
11:I1:1063:GLN:C	16:N1:428:ASP:CG	2.50	0.72
11:I1:1104:LEU:HD22	16:N1:433:GLU:HG3	1.71	0.72
11:I2:936:LYS:HG2	15:M3:609:GLY:O	1.88	0.72
11:I2:1035:GLN:HG3	15:M3:623:LEU:O	1.89	0.72
11:I2:1045:PHE:CD1	17:O3:279:ILE:HG22	2.24	0.72
11:I5:1279:THR:CG2	26:X2:520:GLU:O	2.28	0.72
21:S1:679:ILE:C	21:S2:1071:LEU:CD2	2.55	0.72
21:S2:176:MET:HE1	21:S2:232:LEU:HD12	1.69	0.72
23:U2:395:CYS:SG	31:c4:555:VAL:C	2.72	0.72
23:U2:412:LEU:CA	31:c4:541:ARG:CZ	2.67	0.72
26:X2:196:ASP:OD1	34:i:366:PHE:HD1	1.72	0.72
28:Z2:522:ASN:ND2	30:b2:241:PRO:CA	2.53	0.72
28:Z3:447:GLU:OE1	30:b3:250:GLY:CA	2.38	0.72
28:Z4:524:VAL:HA	30:b4:237:LEU:O	1.89	0.72
31:c1:368:PHE:CZ	31:c1:372:ILE:HD11	2.24	0.72
2:A2:1155:ASN:CG	3:A5:175:GLU:CD	2.54	0.72
1:A3:1116:HIS:CB	3:A6:596:ARG:CZ	2.20	0.72
2:A4:616:ALA:CB	3:A6:509:LYS:HB2	2.19	0.72
2:A4:691:LYS:HZ1	3:A6:330:LEU:C	1.96	0.72
2:A4:777:LEU:C	3:A6:481:ARG:NH1	2.48	0.72
2:A4:779:ASP:OD1	3:A6:486:GLN:CG	2.38	0.72
2:A4:868:GLN:CB	6:D3:570:VAL:HB	1.99	0.72
2:A4:868:GLN:NE2	6:D3:608:ILE:CD1	2.36	0.72
8:F1:1137:GLN:HB2	17:O2:244:GLU:C	2.13	0.72
11:I1:846:ILE:CB	17:O1:247:TRP:CZ2	2.73	0.72
11:I1:887:GLN:CA	17:O1:242:ARG:CB	2.63	0.72
11:I1:984:GLU:CB	15:M1:618:GLN:HG3	2.12	0.72
11:I1:1664:PHE:HA	11:I2:1666:THR:N	1.97	0.72
11:I2:881:ILE:CG2	17:O3:249:ARG:CZ	2.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1028:CYS:CA	20:R3:173:LEU:H	2.01	0.72
11:I2:1105:TRP:HB2	16:N3:439:ARG:HH21	0.65	0.72
11:I4:1276:GLN:N	26:X3:521:TRP:H	1.87	0.72
21:S1:679:ILE:O	21:S2:1123:LYS:CB	2.38	0.72
21:S1:689:PHE:CB	21:S2:1152:VAL:CB	2.68	0.72
21:S2:683:LEU:N	21:S2:684:THR:CA	2.53	0.72
23:U1:434:THR:HG23	31:c2:464:LEU:HD11	1.70	0.72
23:U1:438:GLU:HG2	31:c2:541:ARG:NE	2.05	0.72
23:U2:23:LYS:HG3	31:c4:532:TRP:CH2	2.23	0.72
23:U2:38:ILE:C	31:c4:559:ILE:HG21	2.14	0.72
26:X2:280:VAL:HA	34:i:14:TRP:NE1	2.04	0.72
26:X2:284:ALA:N	34:i:479:THR:CB	2.52	0.72
26:X2:300:SER:HB3	34:i:335:HIS:HB2	0.73	0.72
26:X4:241:GLU:HG2	26:X4:328:LEU:HD13	1.71	0.72
28:Z1:524:VAL:HA	30:b1:236:THR:HG23	1.70	0.72
28:Z2:524:VAL:HA	30:b2:237:LEU:O	1.90	0.72
28:Z3:524:VAL:HG12	30:b3:236:THR:CG2	2.12	0.72
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG13	2.25	0.71
1:A1:1229:VAL:CB	2:A2:725:GLU:HB3	2.20	0.71
2:A2:866:SER:H	6:D1:605:THR:CA	2.03	0.71
2:A2:1114:ILE:CD1	5:C2:731:LYS:HG3	2.20	0.71
1:A3:1230:TYR:CD2	3:A6:575:LEU:HD13	2.22	0.71
1:A3:1332:ARG:CB	3:A6:127:HIS:HE1	1.95	0.71
2:A4:92:ASP:HB3	3:A6:365:MET:CE	2.20	0.71
2:A4:670:SER:N	3:A6:542:LEU:CD2	2.38	0.71
2:A4:678:LEU:HD22	3:A6:431:PHE:CE2	2.25	0.71
2:A4:689:LYS:CA	3:A6:381:LEU:CD2	2.56	0.71
2:A4:689:LYS:CA	3:A6:381:LEU:HD23	2.08	0.71
2:A4:718:GLU:CB	3:A6:121:PRO:HG3	2.19	0.71
2:A4:820:LYS:N	3:A6:147:LEU:HB3	2.03	0.71
2:A4:908:LEU:CG	6:D3:601:PHE:C	2.63	0.71
2:A4:985:ALA:CB	6:D3:500:LYS:H	1.92	0.71
2:A4:988:ARG:HH22	6:D3:499:LEU:N	1.88	0.71
3:A5:232:LEU:HG	5:C2:739:MET:CG	2.20	0.71
3:A5:1056:PHE:HD2	11:I5:37:GLU:HG3	1.53	0.71
3:A5:1101:GLN:OE1	11:I5:33:THR:CG2	2.37	0.71
6:D7:622:PHE:HB2	6:D7:645:LEU:HD21	1.72	0.71
8:F1:1094:GLY:C	17:O2:237:PRO:CB	2.61	0.71
9:G1:266:ASP:HA	16:N2:412:ASN:CA	2.15	0.71
11:I1:503:ARG:NH2	11:I1:504:ALA:O	2.22	0.71
11:I1:931:VAL:HG22	15:M1:604:ASN:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:983:LEU:HD11	15:M1:604:ASN:OD1	1.89	0.71
11:I1:1065:SER:OG	16:N1:430:ARG:NE	2.23	0.71
11:I2:920:PHE:CZ	17:O3:247:TRP:CH2	2.67	0.71
11:I2:1019:LEU:HD22	16:N3:412:ASN:HD22	1.55	0.71
11:I3:1266:ALA:O	26:X1:527:VAL:O	2.08	0.71
17:O2:107:THR:HG23	18:P2:321:ILE:HG21	1.72	0.71
17:O4:111:TYR:H	18:P1:278:ASN:HB3	1.55	0.71
21:S2:176:MET:HE2	21:S2:212:LEU:CD1	2.11	0.71
22:T4:753:TYR:OH	22:T4:856:MET:HE1	1.90	0.71
23:U1:38:ILE:HD11	31:c2:474:ASN:CA	2.18	0.71
23:U2:21:GLU:HG3	31:c4:482:LEU:HB3	1.71	0.71
28:Z1:539:GLU:HB2	30:b1:164:CYS:C	2.14	0.71
28:Z2:411:LEU:H	30:b2:251:ILE:HD13	1.11	0.71
28:Z2:522:ASN:H	30:b2:241:PRO:HG3	1.16	0.71
28:Z3:443:LEU:CD2	30:b3:250:GLY:CA	2.68	0.71
31:c2:385:LEU:HD23	31:c2:401:LEU:HD11	1.71	0.71
1:A1:1200:ARG:CZ	2:A2:642:ARG:HH22	2.03	0.71
1:A1:1224:PRO:CG	2:A2:731:ILE:CB	2.64	0.71
2:A2:1135:ARG:HA	3:A5:147:LEU:HG	1.71	0.71
2:A4:90:GLN:CD	3:A6:427:MET:HG3	2.08	0.71
2:A4:757:LEU:CD1	3:A6:95:TYR:O	2.26	0.71
2:A4:757:LEU:HD22	3:A6:95:TYR:CE2	2.24	0.71
2:A4:791:ALA:O	3:A6:249:SER:OG	2.07	0.71
2:A4:802:TYR:CG	3:A6:397:LEU:CD2	2.73	0.71
2:A4:853:VAL:HB	3:A6:170:THR:HA	1.72	0.71
2:A4:857:LYS:HZ3	3:A6:129:ASN:HD22	0.74	0.71
2:A4:868:GLN:OE1	6:D3:571:SER:N	2.21	0.71
2:A4:907:SER:O	6:D3:552:TYR:CE1	2.43	0.71
2:A4:951:GLU:HG2	3:A6:234:LEU:N	2.03	0.71
2:A4:973:GLU:CG	6:D3:192:TYR:CE2	2.74	0.71
6:D1:622:PHE:HB2	6:D1:645:LEU:HD21	1.72	0.71
11:I1:928:LEU:O	15:M1:601:ASP:OD1	2.07	0.71
11:I1:1187:SER:N	17:O2:221:ASP:CG	2.48	0.71
11:I2:938:CYS:C	17:O3:261:LYS:HA	2.04	0.71
11:I2:976:ARG:CZ	20:R3:147:LEU:H	2.02	0.71
11:I2:1429:TYR:OH	12:J2:267:GLY:HA2	1.90	0.71
11:I3:1429:TYR:OH	12:J3:267:GLY:HA2	1.90	0.71
17:O3:148:ARG:CD	18:P3:325:ILE:HG23	2.19	0.71
21:S3:601:LEU:N	21:S4:1156:ILE:CA	2.52	0.71
23:U2:426:TYR:HD2	31:c4:463:HIS:CE1	2.06	0.71
26:X2:333:GLU:CA	34:i:475:ILE:O	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:522:ASN:ND2	30:b1:241:PRO:CA	2.53	0.71
28:Z1:555:LYS:HA	30:b1:234:LEU:H	1.54	0.71
28:Z2:443:LEU:CD2	30:b2:250:GLY:CA	2.68	0.71
28:Z2:556:ASN:N	30:b2:212:PHE:HB2	2.04	0.71
28:Z4:522:ASN:ND2	30:b4:241:PRO:CA	2.53	0.71
33:h:233:PRO:HA	33:h:236:ILE:HD13	1.71	0.71
2:A2:857:LYS:O	6:D1:606:LYS:HE2	1.90	0.71
2:A2:1149:THR:CA	5:C2:730:HIS:C	2.10	0.71
1:A3:1114:ILE:O	3:A6:592:ASP:HB2	1.90	0.71
1:A3:1185:THR:CA	3:A6:639:ASN:O	2.37	0.71
1:A3:1236:GLN:NE2	3:A6:573:ARG:NH1	2.38	0.71
1:A3:1250:PRO:O	3:A6:634:ASP:C	2.26	0.71
1:A3:1259:CYS:SG	3:A6:624:ASP:CG	2.73	0.71
2:A4:684:VAL:HG13	3:A6:403:ARG:HH21	1.54	0.71
2:A4:686:THR:CB	3:A6:398:THR:OG1	2.37	0.71
2:A4:754:HIS:CE1	3:A6:685:ARG:CZ	2.73	0.71
2:A4:771:ILE:HD12	3:A6:476:PHE:CD2	2.26	0.71
3:A5:232:LEU:CD2	5:C2:738:ASP:N	2.51	0.71
3:A6:1392:ARG:NH1	28:Z4:909:LEU:H	1.88	0.71
11:I1:183:LYS:O	11:I1:188:ARG:NH2	2.22	0.71
11:I1:879:VAL:HA	17:O1:245:GLU:O	1.90	0.71
11:I1:920:PHE:CZ	17:O1:247:TRP:CD1	2.75	0.71
11:I1:936:LYS:CB	15:M1:605:THR:HB	2.19	0.71
11:I1:962:ILE:HD11	15:M1:596:ILE:HG22	1.71	0.71
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG3	1.72	0.71
11:I2:945:LEU:HD12	17:O3:254:ARG:O	1.90	0.71
11:I2:1040:HIS:C	15:M3:616:LEU:HD12	1.92	0.71
11:I4:183:LYS:O	11:I4:188:ARG:NH2	2.22	0.71
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:C	2.68	0.71
11:I5:1429:TYR:OH	12:J5:267:GLY:HA2	1.90	0.71
18:P2:320:GLN:CD	18:P3:278:ASN:CB	2.63	0.71
21:S4:1016:LYS:CE	21:S4:1039:GLU:HG3	2.19	0.71
23:U1:430:PRO:C	31:c2:465:PRO:HG3	2.15	0.71
23:U1:440:ASP:CA	31:c2:463:HIS:HD2	2.03	0.71
23:U2:75:TRP:CE3	31:c4:476:PRO:CD	2.72	0.71
26:X2:283:ASP:HB2	34:i:479:THR:OG1	1.89	0.71
28:Z2:521:SER:C	30:b2:238:ASN:CB	2.62	0.71
28:Z2:527:SER:CA	30:b2:204:GLU:OE1	2.12	0.71
28:Z4:443:LEU:CD2	30:b4:250:GLY:CA	2.68	0.71
28:Z4:555:LYS:HB3	30:b4:212:PHE:HA	1.68	0.71
31:c4:385:LEU:HD23	31:c4:401:LEU:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:823:VAL:HG22	2:A2:856:PHE:CE1	2.24	0.71
2:A2:973:GLU:CB	6:D1:192:TYR:CE2	2.73	0.71
2:A2:1131:ILE:HA	3:A5:160:ILE:HG21	1.72	0.71
2:A2:1160:GLN:HA	3:A5:178:GLY:CA	2.21	0.71
1:A3:1056:PHE:CZ	6:D3:811:LEU:N	2.57	0.71
1:A3:1120:ASP:C	3:A6:595:GLU:HG2	2.15	0.71
1:A3:1258:VAL:HG22	3:A6:621:GLN:O	1.90	0.71
1:A3:1281:LEU:HB3	3:A6:625:LEU:HG	1.71	0.71
2:A4:757:LEU:CG	3:A6:543:GLY:H	2.03	0.71
2:A4:864:ARG:CB	6:D3:608:ILE:N	2.53	0.71
3:A5:1403:MSE:HB3	28:Z2:920:SER:N	2.04	0.71
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CB	2.04	0.71
11:I1:797:LEU:CD1	17:O1:245:GLU:HG2	2.16	0.71
11:I1:1426:SER:OG	12:J1:263:MET:SD	2.45	0.71
11:I2:952:LEU:CG	17:O3:250:LEU:HD11	2.19	0.71
11:I2:955:LYS:HZ1	16:N3:400:LEU:HD12	1.54	0.71
11:I2:981:VAL:HB	20:R3:147:LEU:HG	1.71	0.71
11:I2:1039:ALA:HB3	20:R3:170:LEU:CD2	1.87	0.71
11:I2:1050:SER:CA	17:O3:290:TYR:HB2	2.20	0.71
11:I2:1109:LEU:CB	16:N3:438:LEU:CA	2.56	0.71
11:I5:1281:GLU:CD	26:X2:516:ASN:ND2	2.48	0.71
22:T2:753:TYR:OH	22:T2:856:MET:HE1	1.90	0.71
23:U1:23:LYS:CD	31:c2:480:CYS:N	2.52	0.71
23:U2:21:GLU:O	31:c4:483:ASP:O	1.90	0.71
24:V3:170:GLY:HA3	25:W3:12:ILE:HD12	1.72	0.71
26:X1:241:GLU:HG2	26:X1:328:LEU:HD13	1.71	0.71
26:X2:300:SER:CB	34:i:335:HIS:CB	2.14	0.71
27:Y4:41:ASP:CA	29:a4:230:GLN:OE1	2.28	0.71
28:Z1:402:GLY:CA	30:b1:273:LYS:CB	2.66	0.71
28:Z3:522:ASN:ND2	30:b3:241:PRO:CA	2.53	0.71
28:Z4:552:ASP:O	30:b4:233:TRP:CG	2.14	0.71
31:c2:368:PHE:CZ	31:c2:372:ILE:HD11	2.24	0.71
1:A1:1222:ALA:H	2:A2:723:PHE:HZ	1.34	0.71
2:A2:867:GLU:CD	6:D1:593:ARG:HH21	1.97	0.71
2:A2:870:HIS:CD2	6:D1:566:PHE:HD1	1.82	0.71
2:A2:873:PRO:CD	6:D1:568:ARG:HE	1.89	0.71
2:A2:1019:ARG:HH22	6:D1:237:PRO:C	1.98	0.71
1:A3:1169:LEU:H	3:A6:594:LEU:CB	2.00	0.71
1:A3:1188:ASN:N	3:A6:642:ARG:HA	2.06	0.71
1:A3:1233:GLN:HG3	3:A6:578:ILE:HD12	1.72	0.71
1:A3:1392:ARG:N	3:A6:225:THR:CB	2.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:83:GLN:NE2	3:A6:324:ARG:NH2	2.37	0.71
2:A4:713:ILE:HG23	3:A6:403:ARG:CZ	2.21	0.71
2:A4:1305:ALA:CB	2:A4:1306:PRO:CD	2.68	0.71
9:G2:255:LEU:C	17:O4:262:ASP:OD2	2.33	0.71
9:G2:256:GLN:CB	17:O4:261:LYS:H	2.02	0.71
11:I1:937:TYR:HB3	17:O1:258:GLU:CG	2.18	0.71
11:I1:950:LEU:CD2	16:N1:406:HIS:NE2	2.52	0.71
11:I1:954:GLU:HB3	16:N1:403:VAL:H	0.89	0.71
11:I1:1035:GLN:H	15:M1:627:LEU:CD2	2.02	0.71
11:I1:1043:LEU:HD23	16:N1:430:ARG:CB	2.20	0.71
11:I1:1052:LEU:H	17:O1:286:ILE:HG22	1.55	0.71
11:I1:1109:LEU:HG	16:N1:438:LEU:CD2	2.18	0.71
11:I2:503:ARG:NH2	11:I2:504:ALA:O	2.22	0.71
11:I3:1278:ALA:O	26:X1:520:GLU:CG	2.37	0.71
17:O3:102:LYS:HD3	18:P3:322:LYS:NZ	2.05	0.71
17:O4:107:THR:HA	18:P4:318:PRO:CD	2.20	0.71
21:S1:184:ILE:HD11	21:S1:201:VAL:HG23	1.72	0.71
21:S3:184:ILE:HD11	21:S3:201:VAL:HG23	1.72	0.71
21:S3:601:LEU:H	21:S4:1156:ILE:CA	2.02	0.71
23:U1:431:ILE:HG12	31:c2:469:SER:HG	1.55	0.71
23:U2:42:PHE:CD1	31:c4:478:SER:OG	2.44	0.71
23:U2:437:ASN:CA	31:c4:428:ARG:HH21	2.03	0.71
24:V1:287:ASN:CG	31:c1:11:TYR:CD1	2.62	0.71
24:V2:170:GLY:HA3	25:W2:12:ILE:HD12	1.72	0.71
26:X2:191:ILE:CB	34:i:443:THR:CB	2.63	0.71
26:X2:192:LEU:HD12	34:i:440:GLU:C	2.16	0.71
26:X2:280:VAL:HA	34:i:14:TRP:CE2	2.25	0.71
26:X2:368:LEU:N	34:i:441:LEU:CB	2.45	0.71
28:Z2:447:GLU:OE1	30:b2:250:GLY:CA	2.38	0.71
28:Z2:555:LYS:HA	30:b2:234:LEU:H	1.54	0.71
28:Z3:524:VAL:HA	30:b3:236:THR:HG23	1.70	0.71
28:Z4:556:ASN:N	30:b4:212:PHE:HB2	2.04	0.71
2:A2:1141:GLU:OE1	3:A5:563:THR:OG1	2.05	0.71
1:A3:1091:VAL:HG22	6:D3:808:ASN:CG	2.16	0.71
1:A3:1091:VAL:HG22	6:D3:808:ASN:HB2	1.73	0.71
1:A3:1192:GLN:N	3:A6:615:LEU:CB	1.69	0.71
1:A3:1201:ARG:HB3	3:A6:549:ALA:HB2	1.55	0.71
1:A3:1201:ARG:HB2	3:A6:682:ARG:NH2	2.06	0.71
1:A3:1221:ILE:HD11	2:A4:642:ARG:HA	1.71	0.71
1:A3:1235:ILE:HG13	3:A6:617:VAL:HG21	1.71	0.71
1:A3:1248:ILE:HG12	3:A6:587:VAL:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:648:TYR:CD2	3:A6:503:GLN:CA	2.73	0.71
2:A4:760:LEU:HD11	3:A6:98:LEU:HB2	1.73	0.71
2:A4:765:GLU:O	3:A6:477:PHE:CE2	2.43	0.71
2:A4:864:ARG:HD3	6:D3:610:ASN:H	1.54	0.71
3:A5:1365:VAL:CA	28:Z2:841:ALA:C	2.56	0.71
6:D5:622:PHE:HB2	6:D5:645:LEU:HD21	1.72	0.71
6:D7:176:SER:HB3	11:I3:95:LYS:HZ3	1.51	0.71
6:D7:187:ARG:HH12	11:I3:54:LYS:NZ	1.89	0.71
9:G2:256:GLN:HB2	17:O4:257:ALA:O	1.91	0.71
9:G2:256:GLN:HB2	17:O4:261:LYS:H	1.56	0.71
11:I1:797:LEU:CG	17:O1:245:GLU:HG2	2.16	0.71
11:I1:833:PHE:C	17:O1:241:SER:HB2	2.15	0.71
11:I1:928:LEU:HG	20:R1:155:GLU:CG	2.20	0.71
11:I1:984:GLU:HB2	15:M1:618:GLN:CG	2.20	0.71
11:I1:989:GLY:N	15:M1:614:ASP:CG	2.48	0.71
11:I1:1114:VAL:CA	16:N1:435:ALA:HB3	2.21	0.71
11:I2:895:ARG:H	17:O3:239:GLN:CB	2.02	0.71
11:I2:927:HIS:CB	15:M3:597:LYS:HB3	2.20	0.71
11:I2:994:ALA:C	17:O3:267:ALA:O	2.34	0.71
11:I2:1050:SER:O	17:O3:286:ILE:O	2.08	0.71
11:I2:1109:LEU:CD2	17:O3:290:TYR:HD2	1.98	0.71
11:I5:1279:THR:OG1	26:X2:520:GLU:O	2.07	0.71
21:S1:683:LEU:N	21:S1:684:THR:CA	2.53	0.71
21:S2:184:ILE:HD11	21:S2:201:VAL:HG23	1.72	0.71
22:T1:741:ASP:HA	31:c5:24:GLN:CD	2.04	0.71
23:U2:413:ILE:CB	31:c4:540:HIS:C	2.48	0.71
23:U2:435:PHE:CE1	31:c4:539:ILE:CB	2.74	0.71
23:U2:437:ASN:ND2	31:c4:198:ARG:HH21	1.88	0.71
23:U2:440:ASP:OD2	31:c4:345:MET:HE2	1.91	0.71
26:X2:279:ALA:HB1	34:i:14:TRP:C	2.14	0.71
26:X2:360:PHE:HB3	34:i:423:LYS:HG3	1.72	0.71
27:Y4:329:ARG:HG2	27:Y4:344:VAL:HG22	1.70	0.71
28:Z1:556:ASN:HD21	30:b1:166:LEU:CD2	2.02	0.71
28:Z2:540:LEU:HA	30:b2:165:THR:HG23	1.71	0.71
28:Z2:555:LYS:HG2	30:b2:213:ASP:N	2.05	0.71
28:Z2:555:LYS:HB3	30:b2:212:PHE:HA	1.68	0.71
28:Z4:410:ASN:CB	30:b4:251:ILE:CB	2.68	0.71
28:Z4:530:LYS:NZ	30:b4:164:CYS:HA	2.04	0.71
31:c3:472:GLU:HG2	31:c3:473:THR:HG23	1.72	0.71
2:A2:781:ARG:CZ	6:D1:673:ARG:NH1	2.53	0.71
2:A2:870:HIS:NE2	6:D1:551:PHE:CB	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:980:ARG:HG2	6:D1:473:GLU:HG2	0.72	0.71
1:A3:1273:ALA:H	3:A6:554:GLN:CA	2.02	0.71
1:A3:1392:ARG:CD	3:A6:231:SER:HB2	2.20	0.71
2:A4:683:LEU:HD22	3:A6:110:TYR:CZ	2.25	0.71
2:A4:815:ALA:O	3:A6:527:GLU:HB2	1.91	0.71
2:A4:861:GLN:HG2	6:D3:606:LYS:NZ	2.06	0.71
2:A4:864:ARG:CA	6:D3:607:PRO:HD2	2.20	0.71
3:A5:1395:LYS:HB2	28:Z2:870:ILE:CA	2.15	0.71
3:A6:443:ILE:C	6:D3:719:LEU:HD13	1.77	0.71
11:I1:797:LEU:HD23	17:O1:241:SER:OG	1.90	0.71
11:I1:976:ARG:HH22	15:M1:622:VAL:CB	2.03	0.71
11:I1:1021:ILE:HG13	16:N1:406:HIS:O	1.91	0.71
11:I1:1046:HIS:HB2	17:O1:280:GLU:CA	2.21	0.71
11:I1:1052:LEU:CA	17:O1:287:LEU:HD13	2.17	0.71
11:I2:894:VAL:HB	17:O3:239:GLN:CB	2.20	0.71
11:I2:961:ARG:HH22	16:N3:389:PHE:N	1.85	0.71
11:I2:1020:ALA:C	16:N3:406:HIS:CA	2.61	0.71
11:I2:1059:PRO:CB	17:O3:275:LEU:N	2.48	0.71
11:I2:1182:GLN:HG3	12:J2:245:GLU:OE2	1.89	0.71
11:I3:1276:GLN:CD	26:X1:535:ALA:O	2.34	0.71
11:I5:1182:GLN:HG3	12:J5:245:GLU:OE2	1.89	0.71
21:S1:1016:LYS:CE	21:S1:1039:GLU:HG3	2.19	0.71
21:S3:676:GLU:CB	21:S4:1146:ALA:N	2.54	0.71
22:T1:819:ASN:CG	31:c5:57:GLU:CG	2.62	0.71
23:U1:62:VAL:HG12	23:U1:66:LYS:HE3	1.73	0.71
23:U2:435:PHE:CA	31:c4:536:CYS:CB	2.66	0.71
26:X2:283:ASP:C	34:i:479:THR:CG2	2.43	0.71
28:Z1:438:GLU:OE1	30:b1:333:HIS:ND1	2.24	0.71
28:Z1:443:LEU:CD2	30:b1:250:GLY:CA	2.68	0.71
28:Z2:410:ASN:HB3	30:b2:251:ILE:HD12	1.55	0.71
28:Z2:534:ASP:CA	30:b2:164:CYS:HB3	2.21	0.71
28:Z2:557:CYS:C	30:b2:235:LEU:C	2.58	0.71
31:c5:472:GLU:HG2	31:c5:473:THR:HG23	1.72	0.71
2:A2:973:GLU:CB	6:D1:498:GLU:HG3	2.21	0.71
2:A2:979:GLY:C	6:D1:473:GLU:CD	2.58	0.71
1:A3:1170:ILE:CA	3:A6:590:SER:C	2.58	0.71
1:A3:1196:GLU:CD	3:A6:611:ILE:N	2.42	0.71
1:A3:1199:GLN:N	2:A4:729:SER:C	2.48	0.71
1:A3:1201:ARG:CG	3:A6:549:ALA:N	2.43	0.71
1:A3:1223:GLU:O	3:A6:496:THR:HG23	1.88	0.71
1:A3:1231:VAL:HG12	3:A6:617:VAL:CG2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1311:ARG:CG	3:A6:711:VAL:HG12	2.06	0.71
1:A3:1392:ARG:CZ	3:A6:231:SER:CB	2.68	0.71
2:A4:687:LEU:HD22	3:A6:403:ARG:HG3	1.71	0.71
2:A4:710:LEU:O	3:A6:490:PHE:CD2	2.43	0.71
2:A4:781:ARG:NH1	6:D3:673:ARG:HH12	1.89	0.71
2:A4:792:VAL:CB	3:A6:187:THR:OG1	2.39	0.71
2:A4:864:ARG:HH11	6:D3:607:PRO:HA	1.55	0.71
2:A4:976:LEU:HB3	6:D3:472:PHE:CG	2.26	0.71
2:A4:985:ALA:HB1	6:D3:500:LYS:C	2.15	0.71
9:G2:256:GLN:CG	17:O4:262:ASP:N	2.53	0.71
11:I1:980:ILE:CA	15:M1:617:THR:O	2.29	0.71
11:I1:1013:GLU:CA	16:N1:411:GLN:CD	2.61	0.71
11:I1:1033:PRO:O	16:N1:441:PHE:CD1	2.44	0.71
11:I1:1071:LEU:N	16:N1:429:GLU:HG2	2.04	0.71
11:I1:1610:VAL:CG1	11:I2:1669:ARG:NH2	2.54	0.71
11:I2:833:PHE:CD1	17:O3:245:GLU:HG3	2.25	0.71
11:I2:950:LEU:CD2	16:N3:406:HIS:HE2	1.98	0.71
11:I2:1543:LEU:HD11	12:J1:300:ILE:O	1.89	0.71
11:I3:774:LYS:CB	29:a2:38:ASP:OD1	2.38	0.71
22:T3:753:TYR:OH	22:T3:856:MET:HE1	1.90	0.71
23:U2:42:PHE:HE1	31:c4:478:SER:C	1.99	0.71
23:U2:435:PHE:HA	31:c4:536:CYS:HB3	1.71	0.71
28:Z1:447:GLU:OE1	30:b1:250:GLY:CA	2.38	0.71
28:Z4:447:GLU:OE1	30:b4:250:GLY:CA	2.38	0.71
28:Z4:447:GLU:HG3	30:b4:248:SER:HB2	1.72	0.71
32:g:312:GLU:HG2	32:g:413:LEU:HD11	1.73	0.71
2:A2:871:ASN:CB	6:D1:571:SER:CB	2.66	0.71
2:A2:904:GLN:O	6:D1:602:THR:CA	2.34	0.71
1:A3:1182:ILE:HG23	3:A6:639:ASN:HB2	1.70	0.71
1:A3:1194:HIS:CE1	3:A6:552:PHE:CD2	2.78	0.71
1:A3:1270:SER:OG	3:A6:553:ASP:C	2.32	0.71
1:A3:1325:MET:HE3	3:A6:125:VAL:HG23	1.72	0.71
2:A4:95:TYR:CB	3:A6:365:MET:HA	2.20	0.71
2:A4:642:ARG:C	3:A6:501:VAL:CB	2.64	0.71
2:A4:713:ILE:HG13	3:A6:462:LEU:HD12	0.71	0.71
2:A4:727:ASN:CG	3:A6:605:TYR:CD1	2.68	0.71
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ1	1.56	0.71
2:A4:895:PRO:CA	4:B6:344:ALA:CB	2.67	0.71
3:A5:1028:VAL:C	11:I5:67:LYS:CB	2.19	0.71
3:A5:1312:ARG:CD	28:Z2:832:PHE:CB	2.56	0.71
6:D5:783:SER:HB2	31:c4:305:SER:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:C	15:M1:591:ASP:C	2.59	0.71
11:I1:938:CYS:HB2	15:M1:606:LEU:O	1.91	0.71
11:I1:947:LEU:CD1	16:N1:411:GLN:CG	2.54	0.71
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CD	2.19	0.71
11:I2:947:LEU:HD23	16:N3:408:MET:HA	1.70	0.71
11:I2:1048:GLU:HG2	17:O3:288:GLU:CG	2.16	0.71
11:I2:1051:LYS:CB	17:O3:284:LYS:O	2.38	0.71
11:I3:1182:GLN:HG3	12:J3:245:GLU:OE2	1.89	0.71
11:I4:1274:HIS:N	26:X3:524:SER:HB3	2.04	0.71
17:O4:110:LEU:N	18:P4:318:PRO:CB	2.52	0.71
23:U2:62:VAL:HG12	23:U2:66:LYS:HE3	1.73	0.71
23:U3:62:VAL:HG12	23:U3:66:LYS:HE3	1.73	0.71
28:Z1:524:VAL:HA	30:b1:237:LEU:O	1.89	0.71
28:Z3:438:GLU:OE1	30:b3:333:HIS:ND1	2.24	0.71
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CA	2.54	0.71
1:A1:1201:ARG:HD2	2:A2:734:LEU:CG	2.19	0.71
2:A2:1122:LEU:CD1	3:A5:135:PHE:CE2	2.74	0.71
2:A2:1143:LEU:C	3:A5:129:ASN:CB	2.63	0.71
1:A3:1192:GLN:HB3	3:A6:645:PHE:HD2	1.44	0.71
1:A3:1228:TYR:CG	3:A6:574:ARG:NH2	2.53	0.71
1:A3:1228:TYR:HB2	3:A6:574:ARG:NH2	2.04	0.71
2:A4:540:GLN:OE1	3:A6:356:THR:O	2.09	0.71
2:A4:679:TYR:CZ	3:A6:109:ASP:HB2	2.25	0.71
2:A4:864:ARG:HD3	6:D3:607:PRO:C	2.15	0.71
2:A4:983:LEU:CD2	6:D3:528:PHE:CE1	2.74	0.71
3:A5:1365:VAL:HG13	28:Z2:841:ALA:CB	2.21	0.71
3:A6:519:LEU:N	6:D3:686:ASP:CG	2.49	0.71
6:D5:238:ALA:HA	31:c3:473:THR:H	1.55	0.71
11:I1:937:TYR:CD2	15:M1:602:MET:SD	2.84	0.71
11:I2:1182:GLN:HE22	12:J2:245:GLU:HB3	1.56	0.71
11:I3:1267:LEU:O	26:X1:529:TRP:CG	2.43	0.71
21:S1:597:ILE:CB	21:S2:1120:PRO:CD	2.60	0.71
21:S1:686:ALA:CA	21:S2:1152:VAL:CB	2.66	0.71
23:U2:15:PHE:HB2	31:c4:477:GLU:O	1.88	0.71
23:U2:16:SER:CA	31:c4:468:THR:OG1	2.38	0.71
23:U2:18:THR:HG23	31:c4:563:ARG:HE	1.50	0.71
23:U2:48:GLN:N	31:c4:472:GLU:HG3	2.06	0.71
23:U2:391:HIS:CD2	31:c4:476:PRO:O	2.44	0.71
26:X2:295:TYR:OH	34:i:447:CYS:CA	2.16	0.71
28:Z1:540:LEU:HA	30:b1:165:THR:HG23	1.71	0.71
28:Z1:555:LYS:HG2	30:b1:213:ASP:N	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:404:VAL:HG11	28:Z2:438:GLU:HA	1.73	0.71
28:Z2:438:GLU:OE1	30:b2:333:HIS:ND1	2.24	0.71
28:Z2:531:LYS:HZ3	30:b2:166:LEU:HB2	1.56	0.71
28:Z2:556:ASN:HD21	30:b2:166:LEU:HD23	1.54	0.71
28:Z2:561:GLN:HG2	30:b2:235:LEU:CD2	2.07	0.71
28:Z3:556:ASN:HD21	30:b3:166:LEU:HD23	1.54	0.71
28:Z4:404:VAL:HG11	28:Z4:438:GLU:HA	1.73	0.71
31:c3:385:LEU:HD23	31:c3:401:LEU:HD11	1.71	0.71
2:A2:227:SER:HB3	6:D1:708:ASP:O	1.90	0.70
2:A2:868:GLN:HA	6:D1:584:LEU:HD21	1.73	0.70
2:A2:983:LEU:HD22	6:D1:497:PHE:CZ	2.26	0.70
1:A3:1091:VAL:HG22	6:D3:808:ASN:CB	2.21	0.70
1:A3:1120:ASP:C	3:A6:599:ARG:NH2	2.48	0.70
1:A3:1261:TYR:CE1	3:A6:616:ALA:HB1	2.26	0.70
2:A4:80:LYS:HD2	3:A6:387:THR:HG23	0.75	0.70
2:A4:682:ARG:CD	3:A6:106:ALA:CA	2.67	0.70
2:A4:982:THR:N	6:D3:496:LEU:C	2.47	0.70
3:A5:996:ASN:CB	11:I5:59:LEU:H	2.03	0.70
3:A6:520:GLU:CG	6:D3:681:ALA:HB3	2.02	0.70
3:A6:1395:LYS:HA	28:Z4:919:PHE:C	2.05	0.70
9:G1:255:LEU:N	15:M2:602:MET:HA	1.82	0.70
11:I1:913:ALA:HB3	15:M1:584:GLN:CD	2.16	0.70
11:I1:916:ALA:CB	15:M1:586:ASP:OD1	2.38	0.70
11:I1:998:ALA:HB2	17:O1:267:ALA:CB	2.19	0.70
11:I2:828:VAL:HG12	17:O3:237:PRO:CD	2.21	0.70
11:I2:887:GLN:CD	16:N3:393:ILE:HG12	2.16	0.70
11:I2:1020:ALA:O	16:N3:406:HIS:CB	2.39	0.70
11:I2:1034:ASP:HB2	15:M3:630:LEU:CD1	2.21	0.70
11:I2:1046:HIS:N	17:O3:280:GLU:CB	2.54	0.70
11:I3:777:SER:HA	29:a2:40[A]:GLU:CG	2.19	0.70
18:P2:320:GLN:HG3	18:P3:278:ASN:HB2	0.71	0.70
21:S3:683:LEU:N	21:S3:684:THR:CA	2.53	0.70
23:U1:139:VAL:CB	31:c1:635:SER:HG	2.01	0.70
23:U1:431:ILE:HG21	31:c2:470:ARG:HB2	1.72	0.70
23:U2:437:ASN:C	31:c4:195:ILE:CD1	2.63	0.70
23:U4:62:VAL:HG12	23:U4:66:LYS:HE3	1.73	0.70
26:X2:300:SER:CA	34:i:367:GLU:O	2.39	0.70
26:X2:333:GLU:CD	34:i:475:ILE:CG2	2.64	0.70
26:X2:363:TYR:CE2	34:i:419:THR:HG21	2.22	0.70
28:Z2:561:GLN:CG	30:b2:236:THR:CA	2.69	0.70
28:Z4:534:ASP:CA	30:b4:164:CYS:HB3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b2:154:GLU:HG2	30:b2:172:THR:HG22	1.73	0.70
31:c1:472:GLU:HG2	31:c1:473:THR:HG23	1.72	0.70
1:A1:1224:PRO:HD2	2:A2:731:ILE:CB	2.20	0.70
2:A2:909:LYS:HZ3	6:D1:601:PHE:HD1	1.35	0.70
2:A2:1143:LEU:N	3:A5:129:ASN:HB2	2.03	0.70
2:A2:1305:ALA:CB	2:A2:1306:PRO:CD	2.68	0.70
1:A3:1021:LEU:HB2	6:D3:816:VAL:O	1.90	0.70
1:A3:1165:ASP:HB2	3:A6:594:LEU:HD11	1.72	0.70
1:A3:1196:GLU:OE1	3:A6:611:ILE:CB	2.39	0.70
1:A3:1204:TRP:CE2	3:A6:95:TYR:CD2	2.66	0.70
2:A4:542:LEU:CD2	3:A6:364:HIS:CE1	2.58	0.70
2:A4:692:VAL:HG22	3:A6:380:ALA:HB2	1.70	0.70
2:A4:771:ILE:HD12	3:A6:476:PHE:CG	2.25	0.70
2:A4:823:VAL:CB	3:A6:167:TRP:HZ2	2.03	0.70
2:A4:950:ASP:N	4:B6:348:PRO:HD3	2.05	0.70
3:A5:220:VAL:HA	5:C2:738:ASP:CB	2.21	0.70
3:A5:1367:THR:CG2	28:Z2:844:CYS:O	2.33	0.70
3:A6:520:GLU:CD	6:D3:681:ALA:CB	2.53	0.70
3:A6:1160:GLN:HE21	5:C6:740:ARG:HD2	1.52	0.70
8:F1:1203:TRP:HH2	17:O2:248:SER:N	1.87	0.70
8:F1:1203:TRP:HA	17:O2:251:ILE:HG22	1.71	0.70
9:G2:256:GLN:HB3	17:O4:262:ASP:H	1.54	0.70
11:I1:935:GLY:O	17:O1:261:LYS:NZ	2.22	0.70
11:I1:946:THR:N	17:O1:256:TYR:CD2	2.59	0.70
11:I1:947:LEU:HD12	17:O1:256:TYR:HE2	1.54	0.70
11:I1:958:THR:H	16:N1:399:HIS:CG	2.08	0.70
11:I2:882:LYS:HG3	17:O3:249:ARG:CA	2.03	0.70
11:I2:949:CYS:HB2	15:M3:606:LEU:HD13	1.72	0.70
11:I2:951:LYS:HD3	16:N3:405:ALA:N	2.06	0.70
11:I2:978:LYS:NZ	20:R3:155:GLU:CA	2.53	0.70
11:I2:1259:ARG:NH2	11:I2:1262:GLN:OE1	2.25	0.70
21:S3:678:GLU:CA	21:S4:1141:GLU:HA	2.21	0.70
23:U1:21:GLU:O	31:c2:471:LEU:HG	1.91	0.70
23:U1:394:ILE:HD12	31:c2:477:GLU:HB2	1.70	0.70
23:U2:8:GLN:C	23:U2:10:GLU:H	1.99	0.70
23:U2:15:PHE:O	31:c4:479:ILE:C	2.24	0.70
23:U2:20:LYS:HB2	31:c4:480:CYS:CB	2.22	0.70
28:Z2:410:ASN:N	30:b2:251:ILE:HD12	2.04	0.70
28:Z3:402:GLY:N	30:b3:254:SER:OG	2.24	0.70
28:Z4:561:GLN:CG	30:b4:236:THR:CA	2.69	0.70
2:A2:985:ALA:HB1	6:D1:500:LYS:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1142:PHE:CE2	3:A5:567:VAL:HG21	1.82	0.70
2:A2:1157:TYR:OH	3:A5:167:TRP:CE2	2.43	0.70
1:A3:1120:ASP:HB3	3:A6:595:GLU:C	2.16	0.70
1:A3:1162:ASN:OD1	3:A6:732:GLN:NE2	2.23	0.70
1:A3:1261:TYR:CD2	3:A6:616:ALA:HA	2.26	0.70
1:A3:1332:ARG:HH22	6:D3:682:ASN:H	1.37	0.70
2:A4:89:LEU:HD13	3:A6:406:LEU:HD11	1.72	0.70
2:A4:574:ARG:HH21	3:A6:456:ASP:H	1.38	0.70
2:A4:781:ARG:HE	6:D3:673:ARG:HH11	1.39	0.70
2:A4:859:GLN:HE22	3:A6:167:TRP:HE3	1.32	0.70
2:A4:988:ARG:NH1	6:D3:498:GLU:O	2.24	0.70
3:A5:232:LEU:HB3	5:C2:736:ASN:O	1.91	0.70
3:A5:1381:ALA:C	28:Z2:813:CYS:CB	2.52	0.70
3:A6:442:ARG:CD	6:D3:692:LEU:HG	2.21	0.70
3:A6:446:LEU:HD21	6:D3:726:SER:O	1.87	0.70
3:A6:524:ARG:HD2	6:D3:677:GLN:CA	2.19	0.70
11:I1:841:PHE:O	15:M1:588:MET:CA	2.39	0.70
11:I1:978:LYS:HG3	20:R1:150:ASN:C	2.16	0.70
11:I1:1038:ILE:HD11	20:R1:167:GLN:CD	2.15	0.70
11:I1:1101:LEU:HD23	16:N1:432:TYR:CE1	2.25	0.70
11:I2:978:LYS:HZ1	20:R3:154:ALA:C	1.99	0.70
21:S2:100:GLU:O	21:S2:103:ASP:N	2.21	0.70
23:U1:15:PHE:O	31:c2:472:GLU:OE2	2.10	0.70
23:U1:24:ILE:C	31:c2:563:ARG:CG	2.55	0.70
23:U2:18:THR:N	31:c4:478:SER:O	2.24	0.70
23:U2:19:LEU:CD1	31:c4:464:LEU:HD11	2.21	0.70
23:U2:390:THR:O	31:c4:538:LEU:HB3	1.90	0.70
23:U2:399:ILE:HD12	31:c4:553:LEU:C	1.93	0.70
23:U2:440:ASP:OD2	31:c4:428:ARG:CB	2.38	0.70
26:X1:403:HIS:ND1	37:k2:450:HIS:NE2	1.84	0.70
26:X2:187:THR:HG23	34:i:444:GLU:CA	2.06	0.70
26:X2:192:LEU:CG	34:i:443:THR:CG2	1.98	0.70
26:X2:361:LEU:CD2	34:i:441:LEU:CD2	2.70	0.70
28:Z1:447:GLU:HG3	30:b1:248:SER:HB2	1.72	0.70
28:Z1:556:ASN:HD21	30:b1:166:LEU:HD23	1.54	0.70
28:Z2:447:GLU:HG3	30:b2:248:SER:HB2	1.72	0.70
31:c5:499:LEU:HD11	31:c5:523:LEU:HD22	1.74	0.70
2:A2:911:TYR:HH	6:D1:196:ILE:HG21	1.56	0.70
1:A3:1237:LEU:CD1	3:A6:119:TRP:HZ2	2.05	0.70
1:A3:1270:SER:OG	3:A6:553:ASP:HA	1.92	0.70
1:A3:1385:GLU:OE2	3:A6:223:THR:CB	2.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:91:LEU:CD1	3:A6:104:PRO:CG	2.67	0.70
2:A4:717:VAL:HG11	3:A6:476:PHE:N	2.06	0.70
2:A4:718:GLU:CG	3:A6:492:SER:CA	2.67	0.70
2:A4:761:GLN:HE22	3:A6:546:ASN:C	1.98	0.70
2:A4:763:LEU:CD2	3:A6:384:ILE:HG12	2.21	0.70
2:A4:763:LEU:CD1	3:A6:470:ARG:HG2	2.22	0.70
2:A4:864:ARG:NH1	6:D3:610:ASN:HB2	2.06	0.70
3:A5:1031:TYR:HD1	11:I5:67:LYS:HZ3	0.71	0.70
3:A5:1313:LYS:HB2	28:Z2:830:LEU:CA	2.20	0.70
6:D1:178:LEU:HD21	6:D1:539:PHE:CG	2.26	0.70
6:D4:178:LEU:HD21	6:D4:539:PHE:CG	2.26	0.70
11:I1:916:ALA:H	15:M1:586:ASP:CA	2.03	0.70
11:I1:987:GLY:CA	15:M1:611:LYS:CG	2.35	0.70
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG22	1.82	0.70
11:I2:882:LYS:HB3	17:O3:245:GLU:O	1.89	0.70
11:I2:896:PRO:C	17:O3:232:LYS:C	2.54	0.70
11:I3:1271:GLU:CA	26:X1:529:TRP:HB2	2.22	0.70
11:I3:1275:SER:OG	26:X1:522:MET:CA	2.20	0.70
11:I4:1429:TYR:OH	12:J4:267:GLY:HA2	1.90	0.70
18:P1:276:SER:C	18:P4:322:LYS:CD	2.60	0.70
23:U1:24:ILE:C	31:c2:563:ARG:HD3	2.16	0.70
23:U1:38:ILE:CG1	31:c2:473:THR:CA	2.44	0.70
26:X2:208:LEU:HD21	34:i:445:GLN:CD	2.17	0.70
26:X2:309:LEU:HD21	34:i:406:HIS:O	1.92	0.70
28:Z3:410:ASN:CB	30:b3:251:ILE:CB	2.69	0.70
28:Z3:524:VAL:HA	30:b3:237:LEU:O	1.89	0.70
28:Z3:540:LEU:HA	30:b3:165:THR:HG23	1.71	0.70
28:Z4:438:GLU:OE1	30:b4:333:HIS:ND1	2.24	0.70
30:b4:154:GLU:HG2	30:b4:172:THR:HG22	1.73	0.70
1:A1:870:HIS:CB	6:D3:279:HIS:CA	2.69	0.70
2:A2:868:GLN:H	6:D1:598:ILE:HG21	1.53	0.70
2:A2:1129:PRO:N	3:A5:140:ALA:CB	2.52	0.70
2:A2:1157:TYR:OH	3:A5:167:TRP:CD1	2.43	0.70
1:A3:1056:PHE:CD2	6:D3:805:GLY:O	2.37	0.70
1:A3:1117:ILE:HD13	3:A6:591:ASP:C	1.44	0.70
2:A4:87:GLN:H	3:A6:393:HIS:H	0.76	0.70
2:A4:235:TYR:CE1	4:B4:347:LEU:CD1	2.75	0.70
2:A4:827:ILE:HD12	2:A4:859:GLN:CB	1.99	0.70
2:A4:874:VAL:HG23	6:D3:568:ARG:C	2.13	0.70
2:A4:946:LYS:CA	4:B6:348:PRO:CG	2.30	0.70
3:A5:1411:ARG:NH2	26:X2:743:PHE:C	2.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:483:HIS:CB	6:D3:675:ARG:HD3	2.21	0.70
11:I1:882:LYS:CB	17:O1:245:GLU:O	2.36	0.70
11:I1:927:HIS:NE2	15:M1:594:LYS:HA	1.99	0.70
11:I1:1182:GLN:HE22	12:J1:245:GLU:HB3	1.56	0.70
11:I2:841:PHE:CA	15:M3:591:ASP:CB	2.69	0.70
11:I2:955:LYS:N	16:N3:403:VAL:HG22	1.98	0.70
11:I5:1023:ASP:OD1	11:I5:1096:ARG:NH1	2.25	0.70
21:S2:866:TYR:O	21:S2:868:ASP:N	2.24	0.70
21:S3:684:THR:C	21:S4:1150:TYR:N	2.25	0.70
23:U2:438:GLU:CA	31:c4:195:ILE:HD13	2.21	0.70
24:V1:336:LEU:CD1	31:c1:625:PRO:O	2.38	0.70
24:V4:170:GLY:HA3	25:W4:12:ILE:HD12	1.73	0.70
26:X2:365:ILE:HA	34:i:421:ILE:HD13	1.72	0.70
28:Z1:401:THR:CA	30:b1:253:SER:N	2.55	0.70
28:Z1:402:GLY:N	30:b1:254:SER:OG	2.25	0.70
28:Z1:555:LYS:C	30:b1:212:PHE:HB2	2.15	0.70
28:Z1:561:GLN:CG	30:b1:236:THR:CA	2.69	0.70
28:Z2:555:LYS:C	30:b2:212:PHE:HB2	2.16	0.70
28:Z3:401:THR:C	30:b3:254:SER:OG	2.25	0.70
31:c1:385:LEU:HD23	31:c1:401:LEU:HD11	1.71	0.70
1:A3:1183:LEU:HD13	3:A6:635:ARG:CG	2.22	0.70
1:A3:1224:PRO:CB	3:A6:548:LEU:CD1	2.56	0.70
2:A4:533:ALA:HB3	3:A6:370:PRO:CG	2.21	0.70
2:A4:579:PHE:CZ	3:A6:507:ALA:CB	2.73	0.70
2:A4:678:LEU:HD11	3:A6:103:ARG:O	1.69	0.70
2:A4:772:SER:C	3:A6:489:LEU:HD21	1.93	0.70
3:A6:1398:LYS:HZ1	28:Z4:921:THR:CB	2.02	0.70
3:A6:1398:LYS:HE3	28:Z4:918:PHE:HA	1.73	0.70
11:I1:880:MET:HB2	17:O1:250:LEU:N	2.06	0.70
11:I1:1182:GLN:NE2	12:J1:245:GLU:HB3	2.07	0.70
11:I2:935:GLY:HA3	15:M3:608:LYS:O	1.91	0.70
11:I2:1037:THR:HB	20:R3:173:LEU:CD2	2.20	0.70
21:S1:670:ILE:O	21:S2:1145:LYS:CB	2.40	0.70
23:U1:406:GLU:N	31:c2:548:VAL:HG22	1.94	0.70
23:U2:42:PHE:HD1	31:c4:478:SER:HG	1.39	0.70
23:U2:435:PHE:CG	31:c4:461:PHE:CE1	2.61	0.70
26:X2:294:GLN:O	34:i:449:VAL:HG13	1.91	0.70
28:Z1:410:ASN:CB	30:b1:251:ILE:CB	2.69	0.70
28:Z2:401:THR:CA	30:b2:253:SER:N	2.55	0.70
28:Z2:402:GLY:N	30:b2:254:SER:OG	2.24	0.70
28:Z3:556:ASN:HD21	30:b3:166:LEU:CD2	2.02	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:555:LYS:C	30:b4:212:PHE:HB2	2.15	0.70
2:A2:984:ALA:HB2	6:D1:553:PHE:CD2	2.27	0.70
2:A2:1151:THR:HA	5:C2:733:LEU:CA	2.22	0.70
1:A3:1195:PHE:HD2	3:A6:678:LEU:H	0.79	0.70
1:A3:1231:VAL:O	3:A6:576:VAL:O	2.00	0.70
1:A3:1249:PHE:HA	3:A6:637:THR:N	2.07	0.70
2:A4:550:VAL:HG21	3:A6:367:ASP:CB	2.18	0.70
2:A4:607:ARG:O	3:A6:505:ALA:C	2.35	0.70
2:A4:737:PRO:C	3:A6:89:LEU:CB	2.52	0.70
2:A4:768:SER:CA	3:A6:476:PHE:O	2.23	0.70
2:A4:854:VAL:CG1	3:A6:173:ASN:H	1.86	0.70
2:A4:1151:THR:HA	5:C4:733:LEU:CA	2.22	0.70
2:A4:1155:ASN:HD21	5:C4:735:ILE:CA	2.02	0.70
3:A5:1376:LEU:HD11	28:Z2:810:ASP:CB	2.22	0.70
6:D4:622:PHE:HB2	6:D4:645:LEU:HD21	1.72	0.70
11:I1:1110:SER:N	16:N1:437:VAL:O	2.24	0.70
11:I2:797:LEU:CD2	17:O3:245:GLU:HG2	2.22	0.70
11:I2:896:PRO:O	17:O3:232:LYS:C	2.35	0.70
11:I2:995:SER:CA	17:O3:267:ALA:CB	2.61	0.70
11:I2:1048:GLU:H	17:O3:287:LEU:HD22	1.57	0.70
11:I2:1049:LEU:CD1	17:O3:291:ASP:OD1	2.38	0.70
11:I2:1052:LEU:H	17:O3:286:ILE:CA	2.03	0.70
11:I3:1267:LEU:CG	26:X1:497:ARG:HH22	1.96	0.70
11:I3:1271:GLU:CD	26:X1:504:ILE:HD12	2.17	0.70
11:I4:1023:ASP:OD1	11:I4:1096:ARG:NH1	2.25	0.70
11:I5:1259:ARG:NH2	11:I5:1262:GLN:OE1	2.25	0.70
11:I5:1426:SER:OG	12:J5:263:MET:SD	2.45	0.70
21:S4:683:LEU:N	21:S4:684:THR:CA	2.53	0.70
23:U1:8:GLN:C	23:U1:10:GLU:H	1.99	0.70
23:U1:23:LYS:HG3	31:c2:479:ILE:HA	1.72	0.70
23:U2:437:ASN:CB	31:c4:195:ILE:HD12	2.21	0.70
24:V1:170:GLY:HA3	25:W1:12:ILE:HD12	1.72	0.70
24:V1:339:LEU:HB2	31:c1:627:ASP:CB	2.20	0.70
28:Z2:522:ASN:ND2	30:b2:241:PRO:HB3	2.07	0.70
28:Z3:638:VAL:O	30:b3:232:PRO:HB3	1.92	0.70
1:A1:1333:ARG:CA	6:D1:637:LYS:HD3	2.22	0.70
2:A2:826:ASN:O	6:D1:632:ALA:O	2.09	0.70
2:A2:876:ARG:CZ	6:D1:559:ASP:H	2.05	0.70
2:A2:904:GLN:CA	6:D1:603:SER:H	2.04	0.70
1:A3:1224:PRO:HA	2:A4:731:ILE:HD13	1.72	0.70
1:A3:1235:ILE:O	3:A6:582:ALA:CA	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1238:ILE:CG2	3:A6:640:LEU:HD13	2.22	0.70
1:A3:1277:TRP:CZ3	3:A6:622:GLY:N	2.59	0.70
2:A4:615:LEU:HD12	3:A6:511:PHE:HD2	1.56	0.70
2:A4:763:LEU:HD11	3:A6:470:ARG:HD3	1.73	0.70
2:A4:800:LEU:HA	3:A6:317:GLY:CA	2.21	0.70
2:A4:895:PRO:CA	4:B6:344:ALA:HB3	2.22	0.70
3:A5:232:LEU:HD23	5:C2:736:ASN:O	1.92	0.70
3:A5:1055:ARG:NH2	11:I5:4:LEU:O	2.25	0.70
3:A6:518:GLU:O	6:D3:681:ALA:O	2.09	0.70
3:A6:1399:ARG:NH2	28:Z4:964:LEU:O	2.25	0.70
9:G1:270:ARG:HD3	16:N2:414:ALA:HA	1.74	0.70
11:I1:937:TYR:CA	17:O1:258:GLU:HA	2.22	0.70
11:I1:1259:ARG:NH2	11:I1:1262:GLN:OE1	2.25	0.70
11:I1:1429:TYR:OH	12:J1:267:GLY:HA2	1.90	0.70
11:I2:797:LEU:HD22	17:O3:245:GLU:CA	2.20	0.70
11:I2:950:LEU:HD12	16:N3:407:ALA:HA	1.71	0.70
11:I2:953:LEU:HD23	15:M3:603:SER:HG	1.56	0.70
11:I2:1017:VAL:CG2	17:O3:260:LEU:CD1	2.67	0.70
11:I2:1048:GLU:CB	17:O3:284:LYS:C	2.65	0.70
11:I3:1239:ASP:HB3	26:X1:116:ARG:NH2	2.05	0.70
11:I5:1239:ASP:HB3	29:a2:27:GLN:NE2	2.05	0.70
21:S2:1032:ILE:HD12	21:S2:1051:ALA:HA	1.74	0.70
21:S3:596:ILE:O	21:S4:1155:GLN:O	1.91	0.70
23:U1:275:GLU:HB2	25:W2:190:ASP:CA	2.20	0.70
23:U2:432:TYR:HE1	31:c4:465:PRO:CD	2.04	0.70
24:V1:346:THR:CG2	31:c1:526:GLU:CB	2.41	0.70
26:X2:362:LEU:HD22	34:i:446:LYS:O	1.92	0.70
28:Z1:521:SER:C	30:b1:238:ASN:CB	2.62	0.70
28:Z1:524:VAL:O	30:b1:208:ASN:ND2	2.25	0.70
28:Z3:410:ASN:N	30:b3:251:ILE:HD12	2.04	0.70
28:Z3:447:GLU:HG3	30:b3:248:SER:HB2	1.72	0.70
28:Z3:522:ASN:ND2	30:b3:241:PRO:CB	2.55	0.70
28:Z3:522:ASN:ND2	30:b3:241:PRO:HB3	2.07	0.70
28:Z3:524:VAL:CG2	30:b3:236:THR:HG22	2.19	0.70
28:Z4:521:SER:C	30:b4:238:ASN:CB	2.62	0.70
1:A1:1399:ARG:HG2	2:A2:884:ARG:HG2	0.71	0.70
2:A2:238:ARG:CZ	4:B2:349:MET:SD	2.79	0.70
2:A2:980:ARG:NH2	6:D1:503:LEU:HD12	2.06	0.70
2:A2:1143:LEU:HD21	3:A5:131:PRO:HG3	1.72	0.70
1:A3:1056:PHE:CE2	6:D3:808:ASN:N	2.54	0.70
1:A3:1224:PRO:HB2	2:A4:727:ASN:C	1.98	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1250:PRO:HG3	3:A6:635:ARG:CB	2.17	0.70
2:A4:551:GLN:CG	3:A6:106:ALA:O	2.40	0.70
2:A4:553:ASP:OD1	3:A6:435:PRO:CD	2.38	0.70
2:A4:679:TYR:HE2	3:A6:511:PHE:O	1.70	0.70
2:A4:860:GLU:HG3	3:A6:135:PHE:HE2	1.54	0.70
3:A5:1098:ARG:HD3	11:I5:29:GLN:NE2	1.97	0.70
3:A6:1388:ALA:O	28:Z4:910:GLN:N	2.24	0.70
4:B5:344:ALA:HB2	5:C2:740:ARG:HH21	1.49	0.70
8:F1:158:PRO:CD	11:I1:1207:PRO:CD	2.70	0.70
9:G1:262:SER:N	17:O2:256:TYR:HE1	1.90	0.70
11:I1:992:ILE:HG21	15:M1:607:SER:HB2	1.72	0.70
11:I2:942:HIS:ND1	17:O3:259:ASP:HA	2.06	0.70
11:I2:1048:GLU:N	17:O3:287:LEU:CD2	2.55	0.70
11:I3:1271:GLU:O	26:X1:525:ILE:CB	2.26	0.70
11:I5:1182:GLN:NE2	12:J5:245:GLU:HB3	2.07	0.70
22:T1:832:VAL:HG22	31:c5:23:ARG:NH1	2.06	0.70
23:U2:34:ASP:HB3	31:c4:558:GLU:OE1	1.92	0.70
23:U2:399:ILE:HD12	31:c4:553:LEU:O	1.84	0.70
23:U2:428:ASN:OD1	31:c4:466:HIS:N	2.23	0.70
23:U2:432:TYR:CE2	31:c4:464:LEU:HD13	2.26	0.70
23:U2:435:PHE:CE2	31:c4:535:VAL:HG22	2.24	0.70
26:X2:336:LEU:HD11	34:i:477:GLY:CA	2.22	0.70
28:Z2:410:ASN:CB	30:b2:251:ILE:CB	2.68	0.70
28:Z3:524:VAL:O	30:b3:208:ASN:ND2	2.25	0.70
28:Z4:531:LYS:CB	30:b4:182:PRO:O	2.40	0.70
2:A2:780:GLU:CB	6:D1:677:GLN:HB3	2.22	0.70
2:A2:968:SER:O	6:D1:203:PRO:HD3	1.91	0.70
2:A2:986:THR:CG2	6:D1:497:PHE:CE1	2.74	0.70
2:A4:93:ASP:CG	3:A6:361:ASP:HB2	2.17	0.70
2:A4:556:PRO:CG	3:A6:454:GLN:CB	2.69	0.70
2:A4:642:ARG:O	3:A6:501:VAL:CG1	2.23	0.70
2:A4:674:ASP:N	3:A6:97:ASP:CG	2.50	0.70
2:A4:715:GLU:CG	3:A6:515:THR:C	2.65	0.70
2:A4:724:LEU:CD1	3:A6:494:PRO:HB2	2.21	0.70
6:D4:578:ARG:NH2	6:D4:624:GLU:OE1	2.25	0.70
11:I1:714:THR:O	11:I1:718:GLN:NE2	2.25	0.70
11:I1:885:GLU:HA	16:N1:397:GLU:OE1	1.88	0.70
11:I1:919:ALA:HB2	16:N1:389:PHE:HA	0.98	0.70
11:I1:1013:GLU:C	16:N1:411:GLN:CD	2.40	0.70
11:I1:1608:SER:O	12:J2:299:GLY:CA	2.40	0.70
11:I2:965:ALA:CB	20:R3:153:GLN:O	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1109:LEU:CG	17:O3:290:TYR:CD2	2.63	0.70
23:U2:13:THR:O	23:U2:17:ASP:N	2.24	0.70
23:U2:432:TYR:C	31:c4:461:PHE:HD1	1.93	0.70
28:Z1:638:VAL:O	30:b1:232:PRO:HB3	1.92	0.70
28:Z3:561:GLN:CG	30:b3:236:THR:CA	2.69	0.70
2:A2:825:ARG:NE	6:D1:633:LYS:NZ	2.40	0.69
2:A2:868:GLN:N	6:D1:598:ILE:HD13	2.06	0.69
2:A2:1122:LEU:HD13	3:A5:135:PHE:CD2	2.25	0.69
2:A2:1150:LEU:HD12	5:C2:731:LYS:HG2	1.73	0.69
2:A2:1155:ASN:ND2	3:A5:175:GLU:OE2	2.24	0.69
2:A4:238:ARG:CZ	4:B4:349:MET:SD	2.79	0.69
2:A4:723:PHE:CD2	3:A6:496:THR:C	2.70	0.69
2:A4:868:GLN:NE2	6:D3:608:ILE:CG1	2.53	0.69
2:A4:870:HIS:O	6:D3:551:PHE:CE2	2.43	0.69
2:A4:889:VAL:HG21	3:A6:174:PRO:CA	2.22	0.69
2:A4:985:ALA:O	6:D3:500:LYS:HA	1.91	0.69
3:A5:1026:PRO:N	11:I5:66:LEU:HG	2.04	0.69
3:A5:1363:ASP:OD2	28:Z2:872:TYR:CA	2.18	0.69
3:A6:1390:LEU:O	28:Z4:913:ILE:N	2.25	0.69
6:D6:622:PHE:HB2	6:D6:645:LEU:HD21	1.72	0.69
11:I1:887:GLN:HA	17:O1:242:ARG:CB	2.22	0.69
11:I1:920:PHE:HD1	17:O1:243:LEU:HD22	1.56	0.69
11:I1:962:ILE:CG2	20:R1:166:LEU:CG	1.85	0.69
11:I1:996:LEU:CD2	16:N1:410:MET:HE1	1.80	0.69
11:I1:1038:ILE:HD13	15:M1:620:VAL:HG12	0.72	0.69
11:I1:1064:LYS:HB3	16:N1:427:VAL:HG11	1.70	0.69
11:I2:962:ILE:HB	15:M3:596:ILE:HG21	1.74	0.69
11:I2:979:ALA:HB2	20:R3:167:GLN:HE22	1.54	0.69
11:I2:1017:VAL:HG12	16:N3:410:MET:HG3	1.73	0.69
11:I2:1039:ALA:C	20:R3:170:LEU:HD11	2.17	0.69
11:I2:1040:HIS:C	15:M3:616:LEU:CD1	2.61	0.69
11:I2:1182:GLN:NE2	12:J2:245:GLU:HB3	2.07	0.69
11:I3:714:THR:O	11:I3:718:GLN:NE2	2.25	0.69
11:I3:1182:GLN:NE2	12:J3:245:GLU:HB3	2.07	0.69
21:S3:176:MET:HE2	21:S3:212:LEU:CD1	2.11	0.69
21:S4:184:ILE:HD11	21:S4:201:VAL:HG23	1.72	0.69
23:U2:41:GLU:HB2	31:c4:559:ILE:CG2	2.21	0.69
24:V1:339:LEU:CB	31:c1:627:ASP:CB	2.70	0.69
28:Z1:402:GLY:C	30:b1:273:LYS:CB	2.65	0.69
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB3	1.68	0.69
28:Z3:555:LYS:C	30:b3:212:PHE:HB2	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:401:THR:CA	30:b4:253:SER:N	2.55	0.69
28:Z4:411:LEU:HD23	30:b4:251:ILE:HG21	1.74	0.69
1:A1:1090:SER:HB2	6:D1:800:PRO:HB3	1.74	0.69
2:A2:1121:LEU:HB3	3:A5:133:LYS:N	2.07	0.69
2:A2:1126:VAL:CG2	3:A5:135:PHE:CG	2.75	0.69
2:A2:1149:THR:C	3:A5:173:ASN:HB3	2.16	0.69
2:A4:714:GLN:O	3:A6:491:VAL:O	2.09	0.69
2:A4:754:HIS:CE1	3:A6:537:ALA:HB1	2.27	0.69
2:A4:951:GLU:CD	3:A6:234:LEU:N	2.50	0.69
2:A4:954:ILE:CA	4:B6:345:LYS:CA	2.61	0.69
2:A4:955:CYS:HA	4:B6:343:LYS:O	1.93	0.69
2:A4:989:MSE:CG	6:D3:500:LYS:HD2	2.22	0.69
2:A4:1151:THR:CA	5:C4:733:LEU:CD1	2.47	0.69
3:A5:1367:THR:C	28:Z2:825:TYR:O	2.35	0.69
3:A5:1392:ARG:CD	28:Z2:866:GLU:C	2.65	0.69
3:A6:1376:LEU:CA	28:Z4:830:LEU:CB	2.71	0.69
5:C1:732:LYS:HE2	11:I1:1228:GLU:CB	2.21	0.69
6:D6:578:ARG:NH2	6:D6:624:GLU:OE1	2.25	0.69
6:D7:178:LEU:HD21	6:D7:539:PHE:CG	2.27	0.69
6:D7:527:ASN:O	11:I3:181:GLN:CD	2.35	0.69
8:F1:1261:TYR:CE2	17:O2:259:ASP:O	2.37	0.69
8:F1:1264:ARG:HH12	17:O2:264:ILE:HA	1.54	0.69
11:I1:841:PHE:CD1	17:O1:243:LEU:CD1	2.75	0.69
11:I1:931:VAL:O	15:M1:604:ASN:N	2.24	0.69
11:I1:946:THR:HB	17:O1:260:LEU:HD23	0.73	0.69
11:I1:1739:GLU:HB2	11:I2:1540:LYS:HE2	1.72	0.69
11:I2:873:ILE:CG2	17:O3:258:GLU:HG3	2.17	0.69
11:I2:887:GLN:HB2	16:N3:393:ILE:CD1	2.21	0.69
11:I2:976:ARG:NH2	20:R3:143:PHE:CA	2.53	0.69
11:I2:978:LYS:O	20:R3:151:LYS:CG	2.39	0.69
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD11	1.72	0.69
11:I4:1282:PHE:CB	29:a3:24[B]:GLY:HA3	2.20	0.69
17:O3:102:LYS:CB	18:P3:322:LYS:CD	2.70	0.69
21:S3:1073:ILE:HD12	21:S3:1074:LEU:N	2.07	0.69
28:Z1:522:ASN:ND2	30:b1:241:PRO:CB	2.55	0.69
28:Z1:522:ASN:ND2	30:b1:241:PRO:HB3	2.07	0.69
28:Z1:527:SER:HB2	30:b1:204:GLU:CG	2.22	0.69
28:Z1:534:ASP:CA	30:b1:164:CYS:HB3	2.21	0.69
28:Z2:522:ASN:ND2	30:b2:241:PRO:CB	2.55	0.69
28:Z2:524:VAL:HG13	30:b2:236:THR:CA	2.16	0.69
28:Z2:524:VAL:O	30:b2:208:ASN:ND2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:402:GLY:C	30:b3:273:LYS:CB	2.65	0.69
28:Z3:524:VAL:O	30:b3:236:THR:HG21	1.92	0.69
28:Z4:524:VAL:O	30:b4:208:ASN:ND2	2.25	0.69
32:g:174:ILE:HG22	32:g:189:LEU:HB2	1.72	0.69
36:k1:364:LYS:NZ	36:k1:368:GLU:OE2	2.25	0.69
1:A1:831:ALA:C	6:D3:298:ASN:HB2	2.14	0.69
1:A1:871:ASN:N	6:D3:280:GLN:H	1.91	0.69
2:A2:876:ARG:HG3	6:D1:558:LYS:HG2	1.74	0.69
2:A2:909:LYS:HZ1	6:D1:197:VAL:HG23	1.58	0.69
2:A2:973:GLU:OE1	6:D1:192:TYR:CG	2.46	0.69
2:A2:987:LYS:CE	6:D1:555:ARG:N	2.55	0.69
2:A2:1151:THR:C	3:A5:175:GLU:N	2.46	0.69
1:A3:1226:LEU:HD23	3:A6:549:ALA:H	1.54	0.69
2:A4:774:VAL:CA	3:A6:467:LEU:HD12	2.14	0.69
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CB	2.71	0.69
3:A5:1404:LEU:HD21	28:Z2:913:ILE:O	1.92	0.69
6:D2:178:LEU:HD21	6:D2:539:PHE:CG	2.27	0.69
6:D2:451:SER:O	6:D2:455:VAL:HG13	1.93	0.69
6:D5:238:ALA:HB2	31:c3:473:THR:C	2.16	0.69
11:I1:927:HIS:CE1	15:M1:594:LYS:HG3	2.27	0.69
11:I1:928:LEU:CG	20:R1:155:GLU:HG3	2.22	0.69
11:I1:1023:ASP:OD1	11:I1:1096:ARG:NH1	2.25	0.69
11:I1:1607:GLN:HB2	12:J2:298:PHE:CE1	2.26	0.69
11:I2:1046:HIS:CA	17:O3:280:GLU:O	2.40	0.69
11:I3:1277:LEU:HD13	26:X1:511:TYR:HE2	1.45	0.69
11:I4:1182:GLN:HE22	12:J4:245:GLU:HB3	1.56	0.69
15:M3:483:LYS:HZ1	16:N4:327:LYS:CE	2.01	0.69
23:U1:18:THR:CG2	31:c2:473:THR:HG22	2.20	0.69
23:U1:141:THR:HG23	31:c1:499:LEU:N	2.07	0.69
23:U1:162:LEU:HB3	24:V1:315:LYS:HG3	1.74	0.69
23:U1:430:PRO:CB	31:c2:465:PRO:HB3	2.21	0.69
23:U1:438:GLU:CG	31:c2:541:ARG:NH1	2.35	0.69
23:U2:403:SER:HB3	31:c4:551:LEU:HG	1.74	0.69
23:U2:415:THR:N	31:c4:541:ARG:HE	1.81	0.69
28:Z1:404:VAL:HG11	28:Z1:438:GLU:HA	1.73	0.69
28:Z1:411:LEU:HD23	30:b1:251:ILE:HG21	1.74	0.69
28:Z1:524:VAL:O	30:b1:236:THR:HG21	1.92	0.69
2:A2:874:VAL:HG12	6:D1:608:ILE:HG22	1.73	0.69
2:A2:908:LEU:HA	6:D1:601:PHE:C	2.16	0.69
2:A2:1148:ARG:CZ	3:A5:169:TYR:HA	2.21	0.69
2:A4:771:ILE:O	3:A6:479:VAL:CG2	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:OE2	6:D3:605:THR:HB	1.91	0.69
2:A4:893:LEU:HD22	3:A6:177:ILE:H	1.54	0.69
2:A4:988:ARG:CD	6:D3:500:LYS:HG2	2.20	0.69
3:A5:1151:THR:HA	5:C5:733:LEU:HD13	1.73	0.69
3:A5:1376:LEU:N	28:Z2:814:THR:CB	2.54	0.69
6:D3:622:PHE:HB2	6:D3:645:LEU:HD21	1.72	0.69
6:D6:451:SER:O	6:D6:455:VAL:HG13	1.92	0.69
8:F1:1091:SER:OG	17:O2:238:ALA:CA	2.40	0.69
9:G1:266:ASP:O	16:N2:414:ALA:C	2.36	0.69
11:I1:957:SER:OG	16:N1:399:HIS:CD2	2.46	0.69
11:I1:987:GLY:CA	15:M1:614:ASP:HB3	2.20	0.69
11:I1:1043:LEU:O	16:N1:430:ARG:CG	2.37	0.69
11:I2:946:THR:HA	17:O3:257:ALA:O	1.92	0.69
11:I2:1023:ASP:OD1	11:I2:1096:ARG:NH1	2.25	0.69
11:I2:1109:LEU:CD2	16:N3:438:LEU:HD23	2.21	0.69
11:I5:1279:THR:CB	26:X2:520:GLU:C	2.66	0.69
17:O3:151:LEU:HD22	18:P3:325:ILE:CG2	2.21	0.69
21:S1:138:VAL:CG1	21:S1:170:THR:HG22	2.22	0.69
23:U2:360:HIS:CB	31:c4:544:VAL:CG1	2.63	0.69
23:U2:397:ASP:N	31:c4:551:LEU:HD22	2.08	0.69
26:X2:318:GLY:N	34:i:400:LYS:CE	2.31	0.69
28:Z2:523:ASP:O	30:b2:208:ASN:OD1	1.81	0.69
28:Z4:522:ASN:ND2	30:b4:241:PRO:CB	2.55	0.69
2:A2:866:SER:N	6:D1:605:THR:CA	2.52	0.69
2:A2:986:THR:HG21	6:D1:504:LYS:HD3	0.70	0.69
1:A3:1190:ILE:HD11	3:A6:617:VAL:CG1	2.21	0.69
1:A3:1236:GLN:CG	3:A6:578:ILE:CA	2.66	0.69
2:A4:550:VAL:HG21	3:A6:367:ASP:HB3	1.71	0.69
2:A4:726:ALA:HA	3:A6:575:LEU:HD13	1.73	0.69
2:A4:735:ALA:HB1	3:A6:682:ARG:HG2	1.74	0.69
2:A4:896:ALA:CA	3:A6:178:GLY:HA2	2.22	0.69
2:A4:975:GLU:O	6:D3:496:LEU:CA	2.40	0.69
3:A5:1026:PRO:CG	11:I5:102:ILE:CD1	2.69	0.69
3:A5:1398:LYS:CG	28:Z2:873:LEU:O	2.39	0.69
6:D3:178:LEU:HD21	6:D3:539:PHE:CG	2.27	0.69
9:G2:258:LYS:O	17:O4:259:ASP:OD1	2.09	0.69
11:I2:921:GLU:O	15:M3:596:ILE:HB	1.93	0.69
11:I3:1023:ASP:OD1	11:I3:1096:ARG:NH1	2.25	0.69
11:I3:1182:GLN:HE22	12:J3:245:GLU:HB3	1.56	0.69
11:I4:1279:THR:CG2	26:X3:520:GLU:HB2	2.17	0.69
11:I5:1182:GLN:HE22	12:J5:245:GLU:HB3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:110:LEU:CD2	18:P4:321:ILE:CG1	2.69	0.69
21:S3:686:ALA:HB1	21:S4:1153:GLN:CB	2.18	0.69
21:S4:1032:ILE:HD12	21:S4:1051:ALA:HA	1.73	0.69
23:U1:202:LEU:N	31:c1:632:HIS:HB3	2.07	0.69
23:U2:26:GLN:CA	31:c4:491:VAL:N	2.39	0.69
23:U2:397:ASP:CA	31:c4:551:LEU:HD22	2.21	0.69
26:X2:301:SER:N	34:i:334:TYR:CA	2.53	0.69
26:X2:454:LEU:O	26:X2:456:SER:N	2.26	0.69
28:Z3:404:VAL:HG11	28:Z3:438:GLU:HA	1.73	0.69
1:A3:1220:PRO:HG3	2:A4:732:GLN:NE2	2.08	0.69
1:A3:1220:PRO:O	2:A4:672:ARG:NE	2.24	0.69
2:A4:551:GLN:O	3:A6:456:ASP:N	2.24	0.69
2:A4:715:GLU:CG	3:A6:515:THR:N	2.54	0.69
2:A4:727:ASN:OD1	3:A6:605:TYR:CB	2.41	0.69
2:A4:801:THR:OG1	3:A6:319:TYR:CZ	2.42	0.69
2:A4:802:TYR:CD1	3:A6:397:LEU:HD22	2.26	0.69
2:A4:989:MSE:HE2	6:D3:240:ASP:OD1	1.92	0.69
2:A4:1114:ILE:CD1	5:C4:731:LYS:HG3	2.19	0.69
3:A6:520:GLU:CB	6:D3:639:LEU:HG	2.21	0.69
6:D2:578:ARG:NH2	6:D2:624:GLU:OE1	2.26	0.69
6:D6:178:LEU:HD21	6:D6:539:PHE:CG	2.26	0.69
11:I1:984:GLU:HB3	15:M1:614:ASP:O	1.92	0.69
11:I1:1069:SER:HG	16:N1:427:VAL:N	1.90	0.69
11:I2:837:MET:HA	17:O3:244:GLU:N	2.06	0.69
11:I2:954:GLU:CB	16:N3:403:VAL:HA	2.19	0.69
11:I3:1277:LEU:HD23	26:X1:519:ILE:HA	1.73	0.69
11:I5:714:THR:O	11:I5:718:GLN:NE2	2.25	0.69
21:S1:1073:ILE:HD12	21:S1:1074:LEU:N	2.07	0.69
23:U1:410:SER:CB	31:c2:541:ARG:HH22	2.06	0.69
23:U2:394:ILE:C	31:c4:535:VAL:HA	2.17	0.69
23:U2:394:ILE:CB	31:c4:535:VAL:HA	2.23	0.69
23:U2:430:PRO:HD2	31:c4:458:LYS:HE3	1.61	0.69
23:U3:278:GLN:H	25:W4:192:GLN:NE2	1.90	0.69
24:V2:367:PHE:O	24:V2:369:GLY:N	2.26	0.69
26:X1:454:LEU:O	26:X1:456:SER:N	2.26	0.69
26:X2:198:GLU:CD	34:i:335:HIS:C	2.57	0.69
28:Z1:535:ILE:CG1	30:b1:182:PRO:HB2	1.90	0.69
28:Z2:549:LYS:HB3	30:b2:182:PRO:CG	2.23	0.69
28:Z3:531:LYS:CB	30:b3:182:PRO:O	2.40	0.69
31:c2:472:GLU:HG2	31:c2:473:THR:HG23	1.72	0.69
1:A1:1224:PRO:N	2:A2:731:ILE:HD13	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:908:LEU:CD2	6:D1:601:PHE:C	2.61	0.69
2:A2:1126:VAL:CA	3:A5:135:PHE:HB3	2.21	0.69
1:A3:1186:TRP:CZ2	3:A6:583:LEU:HB3	2.27	0.69
1:A3:1197:ALA:HB3	2:A4:728:LYS:NZ	2.07	0.69
1:A3:1230:TYR:HA	2:A4:726:ALA:HA	1.75	0.69
1:A3:1236:GLN:HG3	3:A6:581:LYS:HB3	1.67	0.69
1:A3:1241:ARG:CZ	3:A6:593:ALA:C	2.66	0.69
2:A4:692:VAL:CB	3:A6:467:LEU:HD23	2.16	0.69
2:A4:769:GLU:O	3:A6:528:ILE:HD12	1.87	0.69
2:A4:859:GLN:CD	3:A6:176:LEU:HD21	2.17	0.69
2:A4:879:LEU:HG	6:D3:567:LEU:HG	1.75	0.69
2:A4:908:LEU:HD23	6:D3:601:PHE:CA	2.22	0.69
2:A4:909:LYS:O	6:D3:556:ASP:OD1	2.11	0.69
3:A5:232:LEU:HG	5:C2:739:MET:HG2	1.75	0.69
3:A5:1151:THR:OG1	5:C5:733:LEU:HD12	1.93	0.69
3:A5:1372:THR:HB	28:Z2:828:LEU:HA	1.74	0.69
6:D1:578:ARG:NH2	6:D1:624:GLU:OE1	2.26	0.69
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB3	2.23	0.69
11:I1:873:ILE:HG22	17:O1:254:ARG:C	2.17	0.69
11:I1:966:TRP:HE3	20:R1:167:GLN:HB3	1.51	0.69
11:I2:873:ILE:O	17:O3:255:GLY:N	2.26	0.69
11:I2:917:TYR:N	15:M3:586:ASP:O	2.25	0.69
11:I2:950:LEU:HB3	16:N3:406:HIS:HD2	1.53	0.69
11:I2:964:SER:H	20:R3:165:SER:HB3	1.57	0.69
11:I2:1048:GLU:CB	17:O3:284:LYS:HA	2.22	0.69
11:I2:1058:GLY:CA	17:O3:277:GLU:HA	2.07	0.69
11:I4:714:THR:O	11:I4:718:GLN:NE2	2.25	0.69
21:S1:680:PRO:N	21:S2:1127:GLN:HG3	2.08	0.69
21:S2:138:VAL:CG1	21:S2:170:THR:HG22	2.22	0.69
21:S3:866:TYR:O	21:S3:868:ASP:N	2.24	0.69
23:U1:172:LYS:CB	31:c1:506:HIS:HA	2.18	0.69
23:U4:8:GLN:C	23:U4:10:GLU:H	1.99	0.69
24:V1:287:ASN:CG	31:c1:11:TYR:CD2	2.70	0.69
24:V4:367:PHE:O	24:V4:369:GLY:N	2.26	0.69
26:X2:361:LEU:CB	34:i:423:LYS:HD2	2.21	0.69
28:Z3:527:SER:HB2	30:b3:204:GLU:CG	2.22	0.69
28:Z4:402:GLY:N	30:b4:254:SER:OG	2.24	0.69
28:Z4:638:VAL:O	30:b4:232:PRO:HB3	1.92	0.69
30:b1:154:GLU:HG2	30:b1:172:THR:HG22	1.73	0.69
2:A2:235:TYR:CE1	4:B2:347:LEU:CD1	2.75	0.69
2:A2:970:PHE:CB	6:D1:196:ILE:HD11	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:983:LEU:HD22	6:D1:497:PHE:HZ	1.57	0.69
2:A2:1055:ARG:N	6:D2:762:ARG:CA	2.55	0.69
2:A2:1135:ARG:HH11	3:A5:147:LEU:HD23	1.56	0.69
2:A2:1154:PHE:CB	3:A5:175:GLU:OE1	2.40	0.69
2:A2:1155:ASN:HD21	5:C2:735:ILE:CA	2.02	0.69
2:A2:1160:GLN:OE1	3:A5:164:LEU:O	2.11	0.69
2:A2:1160:GLN:HG2	3:A5:176:LEU:HB3	1.75	0.69
1:A3:1098:ARG:HH21	11:I2:1421:ARG:NH2	1.90	0.69
1:A3:1124:ARG:NE	3:A6:602:ILE:HD12	2.08	0.69
1:A3:1163:TYR:CG	3:A6:648:TYR:CA	2.69	0.69
1:A3:1186:TRP:NE1	3:A6:640:LEU:H	1.88	0.69
1:A3:1190:ILE:HB	3:A6:615:LEU:O	1.92	0.69
1:A3:1233:GLN:CB	3:A6:578:ILE:CG2	2.71	0.69
1:A3:1237:LEU:HD11	3:A6:119:TRP:HZ2	1.58	0.69
1:A3:1249:PHE:HB2	3:A6:587:VAL:HG21	0.83	0.69
1:A3:1274:ASP:OD1	3:A6:558:GLU:CD	2.35	0.69
2:A4:79:ALA:HB1	3:A6:321:ASP:CG	2.18	0.69
2:A4:543:GLY:O	3:A6:365:MET:HG3	1.93	0.69
2:A4:546:ASN:ND2	3:A6:365:MET:CE	2.55	0.69
2:A4:554:GLN:NE2	3:A6:370:PRO:CD	2.52	0.69
2:A4:608:VAL:N	3:A6:103:ARG:NH1	2.39	0.69
2:A4:679:TYR:CE1	3:A6:107:SER:OG	2.45	0.69
2:A4:760:LEU:CD2	3:A6:98:LEU:N	2.56	0.69
2:A4:761:GLN:HE21	3:A6:535:PHE:HE1	1.41	0.69
2:A4:818:LEU:HD12	3:A6:526:ILE:O	1.92	0.69
2:A4:863:GLN:N	3:A6:132:ASP:HB3	2.06	0.69
3:A5:1101:GLN:CD	11:I5:33:THR:HG21	2.17	0.69
9:G2:258:LYS:C	17:O4:259:ASP:CG	2.60	0.69
11:I1:921:GLU:OE1	15:M1:592:LEU:HD11	1.92	0.69
11:I1:941:GLY:N	17:O1:260:LEU:C	2.46	0.69
11:I1:966:TRP:CH2	20:R1:167:GLN:HG2	2.28	0.69
11:I1:984:GLU:C	15:M1:613:ASP:C	2.60	0.69
11:I1:1017:VAL:CA	16:N1:411:GLN:HG3	2.23	0.69
11:I1:1030:ARG:HG2	20:R1:179:LYS:CE	2.06	0.69
11:I1:1043:LEU:CD1	20:R1:170:LEU:HD22	2.23	0.69
11:I1:1109:LEU:N	16:N1:442:GLU:H	1.90	0.69
11:I1:1113:LEU:CB	16:N1:435:ALA:CB	2.69	0.69
11:I2:714:THR:O	11:I2:718:GLN:NE2	2.25	0.69
11:I2:881:ILE:CG1	17:O3:249:ARG:O	2.39	0.69
11:I2:936:LYS:HG2	15:M3:609:GLY:C	2.18	0.69
11:I2:955:LYS:NZ	17:O3:249:ARG:HH22	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:957:SER:CB	20:R3:168:LEU:CA	1.88	0.69
11:I2:993:SER:H	15:M3:608:LYS:HZ1	1.38	0.69
11:I2:995:SER:HA	17:O3:267:ALA:CA	2.23	0.69
11:I2:1110:SER:HA	16:N3:438:LEU:HD12	1.74	0.69
11:I3:1259:ARG:NH2	11:I3:1262:GLN:OE1	2.25	0.69
18:P1:278:ASN:HB3	18:P4:322:LYS:HA	1.73	0.69
21:S2:1073:ILE:HD12	21:S2:1074:LEU:N	2.07	0.69
21:S4:138:VAL:CG1	21:S4:170:THR:HG22	2.22	0.69
23:U2:38:ILE:CD1	31:c4:555:VAL:HG13	2.23	0.69
23:U2:45:ALA:HB1	31:c4:470:ARG:HB2	1.73	0.69
23:U2:359:ILE:O	31:c4:545:PRO:CG	2.23	0.69
23:U2:432:TYR:HA	31:c4:539:ILE:CG2	2.15	0.69
23:U3:162:LEU:HB3	24:V3:315:LYS:HG3	1.74	0.69
24:V3:367:PHE:O	24:V3:369:GLY:N	2.26	0.69
26:X2:192:LEU:HB2	34:i:439:GLN:C	2.16	0.69
28:Z2:402:GLY:C	30:b2:273:LYS:CB	2.65	0.69
28:Z2:638:VAL:O	30:b2:232:PRO:HB3	1.92	0.69
28:Z3:523:ASP:CB	30:b3:238:ASN:CA	1.89	0.69
28:Z3:527:SER:CB	30:b3:204:GLU:HG3	2.23	0.69
28:Z4:561:GLN:CB	30:b4:235:LEU:C	2.61	0.69
31:c2:499:LEU:HD11	31:c2:523:LEU:HD22	1.74	0.69
2:A2:826:ASN:HA	6:D1:633:LYS:CB	2.16	0.69
2:A2:826:ASN:OD1	6:D1:633:LYS:CG	2.41	0.69
2:A2:867:GLU:HG3	6:D1:593:ARG:NH2	2.05	0.69
2:A2:968:SER:O	6:D1:203:PRO:HD2	1.93	0.69
2:A2:1124:ARG:O	3:A5:136:GLU:CA	2.25	0.69
2:A2:1128:ASP:CA	3:A5:140:ALA:HB2	2.00	0.69
2:A2:1147:ILE:C	3:A5:172:PRO:CB	2.53	0.69
2:A2:1151:THR:HG23	5:C2:734:VAL:O	1.93	0.69
1:A3:1257:VAL:HG22	3:A6:719:ARG:NH1	2.08	0.69
1:A3:1271:ILE:HG13	3:A6:554:GLN:HG2	1.74	0.69
2:A4:574:ARG:H	3:A6:454:GLN:HA	1.58	0.69
2:A4:679:TYR:HE1	3:A6:107:SER:OG	1.76	0.69
2:A4:715:GLU:OE1	3:A6:516:TRP:CD1	2.45	0.69
2:A4:717:VAL:CB	3:A6:476:PHE:HB3	2.23	0.69
2:A4:805:LEU:HD12	3:A6:468:GLY:O	1.92	0.69
2:A4:898:LEU:CD1	4:B6:342:ARG:CB	2.46	0.69
2:A4:958:LEU:HD13	4:B6:342:ARG:CA	2.22	0.69
3:A5:172:PRO:HD2	5:C2:730:HIS:CD2	2.24	0.69
3:A6:524:ARG:CD	6:D3:677:GLN:CA	2.61	0.69
6:D5:578:ARG:NH2	6:D5:624:GLU:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:955:LYS:CB	16:N1:396:ILE:O	2.28	0.69
11:I1:1042:LEU:CA	15:M1:616:LEU:CD2	2.31	0.69
11:I1:1669:ARG:CZ	11:I2:1605:LEU:HB2	2.22	0.69
11:I2:950:LEU:O	16:N3:403:VAL:HG13	1.87	0.69
11:I2:1054:ILE:HA	17:O3:280:GLU:H	1.52	0.69
11:I4:1259:ARG:NH2	11:I4:1262:GLN:OE1	2.25	0.69
11:I4:1270:LYS:HB3	26:X3:528:GLU:HB2	1.75	0.69
17:O3:158:GLU:HG2	18:P3:315:GLU:HA	1.75	0.69
22:T1:736:LEU:C	31:c5:19:THR:CG2	2.65	0.69
23:U2:24:ILE:HD13	31:c4:457:LEU:HD11	1.73	0.69
23:U2:25:GLU:HB2	31:c4:486:VAL:HG12	0.69	0.69
23:U2:83:VAL:H	31:c4:557:HIS:CE1	2.06	0.69
23:U4:162:LEU:HB3	24:V4:315:LYS:HG3	1.74	0.69
26:X2:297:LYS:HB3	34:i:446:LYS:HE3	0.69	0.69
26:X2:298:ASP:HB2	34:i:370:GLU:N	2.08	0.69
28:Z1:525:LEU:C	30:b1:208:ASN:CG	2.60	0.69
28:Z1:551:THR:CG2	30:b1:233:TRP:HZ3	1.52	0.69
28:Z2:411:LEU:HD23	30:b2:251:ILE:HG21	1.74	0.69
28:Z3:549:LYS:HB3	30:b3:182:PRO:CG	2.23	0.69
28:Z4:557:CYS:C	30:b4:235:LEU:C	2.58	0.69
1:A1:1197:ALA:C	2:A2:728:LYS:HG3	2.18	0.69
2:A2:864:ARG:HD3	6:D1:610:ASN:H	1.58	0.69
2:A2:872:ALA:HB1	6:D1:565:MET:CB	2.21	0.69
2:A2:878:LEU:HD12	6:D1:608:ILE:HG22	1.72	0.69
1:A3:1201:ARG:HB2	2:A4:735:ALA:HB2	1.74	0.69
1:A3:1225:PRO:CD	2:A4:727:ASN:HB2	2.23	0.69
1:A3:1237:LEU:C	3:A6:597:GLU:HG2	2.18	0.69
1:A3:1273:ALA:H	3:A6:554:GLN:C	1.93	0.69
2:A4:610:THR:CB	3:A6:506:SER:OG	2.25	0.69
2:A4:684:VAL:HG22	3:A6:405:PHE:HZ	1.54	0.69
2:A4:711:VAL:N	3:A6:490:PHE:CB	2.53	0.69
2:A4:735:ALA:C	3:A6:92:ASP:HB3	2.17	0.69
2:A4:767:ILE:N	3:A6:470:ARG:C	2.51	0.69
2:A4:770:GLY:CA	3:A6:477:PHE:HB2	2.23	0.69
3:A5:220:VAL:CG1	5:C2:739:MET:CG	2.69	0.69
3:A5:1098:ARG:NE	11:I5:29:GLN:HG3	1.99	0.69
3:A6:1151:THR:OG1	5:C6:733:LEU:HD12	1.93	0.69
3:A6:1359:LEU:HB3	28:Z4:917:ASP:CA	2.21	0.69
6:D3:578:ARG:NH2	6:D3:624:GLU:OE1	2.26	0.69
6:D5:178:LEU:HD21	6:D5:539:PHE:CG	2.27	0.69
9:G1:270:ARG:CA	16:N2:413:VAL:O	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:880:MET:CE	17:O1:247:TRP:HZ3	1.92	0.69
11:I1:957:SER:C	20:R1:168:LEU:CD2	2.66	0.69
11:I1:1602:PHE:HB3	11:I2:1666:THR:HG21	1.75	0.69
11:I2:891:LEU:CA	17:O3:239:GLN:HB3	2.22	0.69
17:O4:106:HIS:O	18:P4:318:PRO:HG3	1.90	0.69
17:O4:111:TYR:HD1	18:P4:325:ILE:HD12	1.58	0.69
23:U1:19:LEU:CD1	31:c2:470:ARG:HH11	2.06	0.69
23:U2:82:LEU:N	31:c4:553:LEU:CD2	2.45	0.69
23:U2:394:ILE:CG1	31:c4:539:ILE:HG12	2.21	0.69
26:X2:280:VAL:CG2	34:i:14:TRP:CD1	2.61	0.69
26:X2:365:ILE:CG2	34:i:424:LEU:CB	2.71	0.69
28:Z1:558:LEU:N	30:b1:235:LEU:C	2.46	0.69
1:A1:870:HIS:CB	6:D3:279:HIS:HB3	2.18	0.68
1:A1:1204:TRP:HE1	2:A2:645:PHE:HZ	1.30	0.68
1:A3:1254:LEU:N	3:A6:635:ARG:N	2.40	0.68
2:A4:547:GLU:HG3	3:A6:366:ALA:C	2.18	0.68
2:A4:679:TYR:H	3:A6:101:TYR:C	2.00	0.68
2:A4:685:ARG:NH1	3:A6:365:MET:SD	2.66	0.68
2:A4:800:LEU:O	3:A6:379:VAL:O	2.11	0.68
2:A4:1019:ARG:NH2	6:D3:237:PRO:O	0.68	0.68
2:A4:1150:LEU:HD12	5:C4:731:LYS:HG2	1.73	0.68
2:A4:1305:ALA:HB1	2:A4:1306:PRO:HD3	1.75	0.68
3:A5:1363:ASP:H	28:Z2:875:LEU:CA	2.06	0.68
3:A6:523:ASN:HD21	6:D3:635:ALA:CB	1.95	0.68
3:A6:842:ARG:CD	8:F2:776:HIS:HE1	2.01	0.68
3:A6:1390:LEU:O	28:Z4:912:ASP:C	2.35	0.68
6:D7:451:SER:O	6:D7:455:VAL:HG13	1.92	0.68
11:I1:962:ILE:CG1	15:M1:596:ILE:CG2	2.71	0.68
11:I1:1042:LEU:HA	15:M1:616:LEU:HD23	1.71	0.68
11:I2:924:ILE:HG12	15:M3:592:LEU:O	1.93	0.68
11:I2:950:LEU:CD2	15:M3:606:LEU:HG	2.23	0.68
11:I2:993:SER:H	15:M3:608:LYS:NZ	1.91	0.68
11:I4:1274:HIS:CA	26:X3:524:SER:OG	2.41	0.68
11:I4:1276:GLN:N	26:X3:521:TRP:N	2.42	0.68
11:I4:1282:PHE:CG	29:a3:24[B]:GLY:H	1.50	0.68
11:I4:1282:PHE:HD1	29:a3:23[B]:PRO:HB2	1.51	0.68
23:U1:401:PRO:HA	31:c2:551:LEU:C	1.99	0.68
23:U2:18:THR:CG2	31:c4:559:ILE:HG23	2.22	0.68
23:U2:21:GLU:HB2	31:c4:483:ASP:CG	2.11	0.68
23:U3:279:TYR:CD1	25:W4:189:SER:HB2	2.01	0.68
24:V1:339:LEU:HD12	31:c1:627:ASP:CG	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:204:PHE:CA	34:i:443:THR:C	2.66	0.68
26:X2:308:ASN:N	34:i:405:TYR:CB	2.43	0.68
28:Z1:410:ASN:HB3	30:b1:251:ILE:CD1	2.18	0.68
28:Z1:531:LYS:CB	30:b1:182:PRO:O	2.40	0.68
28:Z2:531:LYS:CB	30:b2:182:PRO:O	2.40	0.68
28:Z4:447:GLU:HG3	30:b4:248:SER:CB	2.23	0.68
28:Z4:522:ASN:ND2	30:b4:241:PRO:HB3	2.07	0.68
30:b3:154:GLU:HG2	30:b3:172:THR:HG22	1.73	0.68
31:c5:371:GLU:O	31:c5:375:THR:HG22	1.94	0.68
1:A1:1222:ALA:CA	2:A2:645:PHE:CE1	2.73	0.68
2:A2:1142:PHE:CZ	3:A5:567:VAL:CG2	0.80	0.68
1:A3:1191:ASN:CG	3:A6:619:CYS:SG	2.76	0.68
1:A3:1236:GLN:HG2	3:A6:581:LYS:HB2	1.74	0.68
1:A3:1249:PHE:CD2	3:A6:637:THR:OG1	2.46	0.68
1:A3:1250:PRO:HB2	3:A6:635:ARG:HB3	1.74	0.68
1:A3:1257:VAL:HA	3:A6:719:ARG:NH1	2.07	0.68
1:A3:1261:TYR:CD1	3:A6:621:GLN:OE1	2.46	0.68
2:A4:611:ILE:HG22	3:A6:508:LEU:CG	0.37	0.68
3:A5:232:LEU:CG	5:C2:739:MET:N	2.39	0.68
3:A6:446:LEU:CD1	6:D3:722:LEU:N	2.56	0.68
11:I1:924:ILE:HG23	15:M1:591:ASP:O	1.92	0.68
11:I1:992:ILE:O	15:M1:607:SER:O	2.09	0.68
11:I1:1024:PHE:O	20:R1:172:ASP:OD1	2.10	0.68
11:I2:887:GLN:CD	16:N3:393:ILE:CG1	2.63	0.68
11:I2:990:GLU:O	17:O3:271:GLU:O	2.11	0.68
11:I4:1182:GLN:NE2	12:J4:245:GLU:HB3	2.07	0.68
11:I4:1308:THR:O	11:I4:1312:ASN:ND2	2.26	0.68
21:S4:1073:ILE:HD12	21:S4:1074:LEU:N	2.07	0.68
23:U1:135:ARG:NH2	31:c1:639:GLN:CG	2.49	0.68
28:Z1:531:LYS:HZ3	30:b1:166:LEU:HB2	1.57	0.68
28:Z4:556:ASN:HD21	30:b4:166:LEU:HD23	1.54	0.68
31:c3:499:LEU:HD11	31:c3:523:LEU:HD22	1.74	0.68
1:A1:1220:PRO:C	2:A2:645:PHE:CD1	2.70	0.68
1:A1:1225:PRO:C	2:A2:728:LYS:HB3	2.18	0.68
2:A2:865:ALA:C	6:D1:605:THR:HA	2.16	0.68
1:A3:1054:SER:HA	6:D3:809:ALA:CA	2.17	0.68
2:A4:84:VAL:CG1	3:A6:99:ASP:OD2	2.42	0.68
2:A4:681:THR:OG1	3:A6:392:LEU:HD13	1.93	0.68
2:A4:715:GLU:CG	3:A6:515:THR:CA	2.69	0.68
2:A4:852:ASP:HB3	3:A6:169:TYR:CD1	1.86	0.68
3:A5:232:LEU:HD11	5:C2:739:MET:CB	2.02	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:728:GLU:OE1	22:T3:773:LYS:O	2.11	0.68
11:I1:797:LEU:HD11	17:O1:244:GLU:C	2.18	0.68
11:I1:935:GLY:N	15:M1:605:THR:CB	2.45	0.68
11:I1:947:LEU:CD1	17:O1:256:TYR:CZ	2.64	0.68
11:I1:982:GLN:C	15:M1:621:ARG:HH22	1.95	0.68
11:I1:984:GLU:HA	15:M1:614:ASP:O	1.91	0.68
11:I1:1108:PRO:CB	16:N1:443:GLU:CA	2.59	0.68
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB1	1.75	0.68
11:I1:1668:HIS:C	11:I2:1668:HIS:HB2	2.18	0.68
11:I2:874:LEU:C	17:O3:251:ILE:O	2.37	0.68
11:I2:877:ILE:HG13	17:O3:254:ARG:CB	0.47	0.68
11:I2:966:TRP:N	20:R3:154:ALA:HB2	2.04	0.68
11:I2:1045:PHE:CE1	17:O3:279:ILE:CG2	2.77	0.68
21:S3:1074:LEU:HD13	21:S3:1122:VAL:HG13	1.74	0.68
23:U2:360:HIS:CG	31:c4:544:VAL:HG13	2.27	0.68
23:U3:278:GLN:CB	25:W4:187:TYR:OH	2.41	0.68
26:X2:262:ILE:CD1	34:i:450:GLU:OE2	2.40	0.68
26:X2:299:SER:CB	34:i:369:VAL:HB	2.22	0.68
26:X2:300:SER:N	34:i:368[A]:CYS:HA	2.07	0.68
26:X2:360:PHE:O	34:i:419:THR:O	2.11	0.68
26:X4:454:LEU:O	26:X4:456:SER:N	2.26	0.68
28:Z1:528:ILE:C	30:b1:184:SER:OG	1.99	0.68
31:c1:499:LEU:HD11	31:c1:523:LEU:HD22	1.74	0.68
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG12	0.69	0.68
1:A3:1228:TYR:HB2	3:A6:574:ARG:CZ	2.22	0.68
2:A4:95:TYR:CG	3:A6:365:MET:HA	2.27	0.68
2:A4:671:SER:CB	3:A6:505:ALA:HB1	2.23	0.68
2:A4:761:GLN:CG	3:A6:545:GLY:O	2.42	0.68
2:A4:776:MET:CA	3:A6:519:LEU:CD1	2.71	0.68
2:A4:868:GLN:HB2	6:D3:570:VAL:HG21	1.74	0.68
2:A4:947:LYS:HZ3	3:A6:219:GLY:C	2.01	0.68
3:A6:444:ARG:HG3	6:D3:733:ALA:CB	2.15	0.68
3:A6:1410:ALA:HB3	26:X4:686:ASP:N	2.09	0.68
6:D7:530:ARG:CZ	11:I3:182:VAL:H	2.06	0.68
11:I1:937:TYR:CB	17:O1:258:GLU:CG	2.54	0.68
11:I2:834:SER:N	17:O3:241:SER:HB2	2.08	0.68
11:I2:885:GLU:HA	16:N3:397:GLU:HB3	1.73	0.68
11:I2:922:ASP:HA	20:R3:163:LEU:HB3	1.76	0.68
11:I2:952:LEU:CA	16:N3:403:VAL:HG21	2.23	0.68
11:I2:983:LEU:O	15:M3:613:ASP:N	2.26	0.68
11:I2:995:SER:HA	17:O3:267:ALA:C	2.17	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1043:LEU:HD13	16:N3:434:LEU:H	1.58	0.68
11:I5:1308:THR:O	11:I5:1312:ASN:ND2	2.26	0.68
23:U2:412:LEU:C	31:c4:541:ARG:NE	2.51	0.68
23:U2:434:THR:HG21	31:c4:532:TRP:HH2	1.54	0.68
23:U3:8:GLN:C	23:U3:10:GLU:H	1.99	0.68
26:X2:300:SER:CB	34:i:367:GLU:H	2.06	0.68
26:X2:308:ASN:ND2	34:i:315:LEU:CD1	2.55	0.68
28:Z2:447:GLU:HG3	30:b2:248:SER:CB	2.23	0.68
28:Z2:527:SER:HB2	30:b2:204:GLU:CG	2.22	0.68
2:A2:874:VAL:HG22	6:D1:611:LYS:CG	2.19	0.68
2:A2:968:SER:HA	6:D1:202:GLN:CA	2.22	0.68
2:A2:979:GLY:C	6:D1:473:GLU:OE2	2.36	0.68
2:A2:1142:PHE:CG	3:A5:128:HIS:O	2.46	0.68
1:A3:1195:PHE:HE2	3:A6:677:ALA:HB3	1.57	0.68
2:A4:227:SER:CB	6:D3:712:ASP:H	2.05	0.68
2:A4:460:ARG:NH2	2:A4:463:ASP:OD2	2.26	0.68
2:A4:701:ILE:CD1	3:A6:466:ALA:CA	2.50	0.68
3:A5:186:ILE:CG2	5:C2:742:ASP:OD1	2.32	0.68
3:A5:999:SER:CB	11:I5:64:LYS:HE3	2.23	0.68
6:D4:451:SER:O	6:D4:455:VAL:HG13	1.92	0.68
9:G2:257:THR:CG2	17:O4:258:GLU:H	2.02	0.68
11:I1:959:SER:HB3	20:R1:166:LEU:CD2	2.21	0.68
11:I1:984:GLU:OE2	15:M1:615:PRO:C	2.36	0.68
11:I1:1110:SER:HA	16:N1:438:LEU:HB2	1.76	0.68
11:I2:1039:ALA:HB2	20:R3:170:LEU:CG	1.49	0.68
11:I2:1308:THR:O	11:I2:1312:ASN:ND2	2.26	0.68
21:S1:100:GLU:O	21:S1:103:ASP:N	2.21	0.68
21:S1:670:ILE:H	21:S2:1146:ALA:CA	2.06	0.68
21:S1:1032:ILE:HD12	21:S1:1051:ALA:HA	1.73	0.68
21:S3:1032:ILE:HD12	21:S3:1051:ALA:HA	1.74	0.68
22:T1:671:LYS:O	22:T1:674:VAL:HG12	1.94	0.68
23:U2:78:VAL:CB	31:c4:553:LEU:HD13	2.22	0.68
23:U2:435:PHE:HD1	31:c4:461:PHE:CD1	2.08	0.68
24:V1:367:PHE:O	24:V1:369:GLY:N	2.25	0.68
26:X2:191:ILE:HB	34:i:443:THR:HG21	1.71	0.68
26:X2:312:LYS:HB2	34:i:397:ARG:C	2.18	0.68
28:Z2:558:LEU:N	30:b2:235:LEU:C	2.46	0.68
28:Z4:410:ASN:N	30:b4:251:ILE:HD12	2.04	0.68
28:Z4:524:VAL:O	30:b4:236:THR:HG21	1.92	0.68
28:Z4:549:LYS:HB3	30:b4:182:PRO:CG	2.23	0.68
30:b3:193:ARG:NH1	30:b3:199:GLN:OE1	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:c1:371:GLU:O	31:c1:375:THR:HG22	1.94	0.68
31:c1:406:ILE:HG23	31:c1:409:ILE:HD11	1.75	0.68
2:A2:869:ALA:HA	6:D1:583:ILE:CG2	2.23	0.68
1:A3:1091:VAL:HG23	6:D3:805:GLY:O	1.93	0.68
1:A3:1099:GLN:N	11:I2:1414:CYS:SG	2.67	0.68
1:A3:1236:GLN:H	3:A6:578:ILE:C	2.00	0.68
2:A4:719:ARG:HD3	3:A6:513:GLN:NE2	2.09	0.68
2:A4:760:LEU:HD11	3:A6:98:LEU:CB	2.24	0.68
2:A4:954:ILE:CB	4:B6:346:LEU:N	2.55	0.68
2:A4:1151:THR:HA	5:C4:733:LEU:HD13	1.70	0.68
3:A5:1094:ILE:HG23	11:I5:4:LEU:CA	2.23	0.68
3:A6:520:GLU:OE1	6:D3:636:ASP:C	2.36	0.68
6:D5:451:SER:O	6:D5:455:VAL:HG13	1.93	0.68
11:I1:966:TRP:CZ2	20:R1:166:LEU:HA	2.29	0.68
11:I1:987:GLY:N	15:M1:613:ASP:C	2.48	0.68
11:I1:1308:THR:O	11:I1:1312:ASN:ND2	2.26	0.68
11:I2:890:TYR:CA	17:O3:242:ARG:HG3	2.23	0.68
11:I3:1276:GLN:C	26:X1:522:MET:CB	2.67	0.68
11:I3:1277:LEU:CG	26:X1:522:MET:SD	2.77	0.68
11:I3:1308:THR:O	11:I3:1312:ASN:ND2	2.26	0.68
11:I4:819:MET:HG2	26:X3:501:LYS:HD3	1.76	0.68
11:I5:1277:LEU:CD2	26:X2:517:ASP:HB2	2.24	0.68
17:O3:147:ALA:HB3	18:P3:328:PRO:CG	2.22	0.68
17:O4:109:PRO:CB	18:P4:318:PRO:CB	2.70	0.68
21:S1:671:ALA:N	21:S2:1146:ALA:HA	2.01	0.68
23:U1:435:PHE:CD2	31:c2:476:PRO:O	2.46	0.68
23:U2:42:PHE:HE1	31:c4:479:ILE:N	1.92	0.68
23:U2:75:TRP:CZ2	31:c4:477:GLU:HG3	2.29	0.68
26:X2:308:ASN:CB	34:i:405:TYR:CB	2.71	0.68
26:X2:369:GLU:HG3	34:i:428:LEU:HG	1.71	0.68
28:Z1:527:SER:HA	30:b1:204:GLU:OE1	1.50	0.68
28:Z2:524:VAL:O	30:b2:236:THR:HG21	1.92	0.68
28:Z3:447:GLU:HG3	30:b3:248:SER:CB	2.23	0.68
2:A2:879:LEU:HD12	6:D1:564:ASN:CG	2.19	0.68
1:A3:1183:LEU:CD1	3:A6:635:ARG:HA	2.22	0.68
1:A3:1189:LEU:CD1	3:A6:579:PHE:CD1	2.70	0.68
1:A3:1263:ILE:HG21	3:A6:715:GLU:OE1	1.94	0.68
1:A3:1389:SER:OG	3:A6:229:SER:C	2.37	0.68
2:A4:615:LEU:HB3	3:A6:509:LYS:N	2.08	0.68
2:A4:646:ILE:N	3:A6:502:THR:N	2.41	0.68
2:A4:756:ALA:HA	3:A6:387:THR:C	2.13	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:757:LEU:C	3:A6:544:PHE:HD2	1.96	0.68
2:A4:792:VAL:CA	3:A6:187:THR:HB	2.22	0.68
2:A4:816:LYS:HE3	3:A6:157:TRP:CD1	2.29	0.68
2:A4:856:PHE:N	3:A6:167:TRP:NE1	2.42	0.68
2:A4:908:LEU:HD21	6:D3:601:PHE:CB	2.19	0.68
2:A4:954:ILE:H	4:B6:346:LEU:N	1.92	0.68
3:A5:1092:ASN:HA	11:I5:33:THR:CG2	2.22	0.68
3:A6:1371:GLY:O	28:Z4:871:HIS:CB	2.39	0.68
6:D3:743:HIS:NE2	11:I2:1528:ARG:CG	2.56	0.68
9:G2:258:LYS:HB2	17:O4:256:TYR:O	1.94	0.68
11:I1:924:ILE:C	15:M1:596:ILE:HB	2.19	0.68
11:I1:987:GLY:H	15:M1:614:ASP:N	1.90	0.68
11:I1:1014:ASN:ND2	16:N1:414:ALA:CB	2.33	0.68
11:I1:1043:LEU:HA	16:N1:430:ARG:HD2	1.75	0.68
11:I1:1666:THR:N	11:I2:1664:PHE:HA	2.07	0.68
11:I2:997:SER:OG	16:N3:427:VAL:HG22	1.93	0.68
11:I2:1021:ILE:CA	16:N3:406:HIS:ND1	2.54	0.68
11:I2:1043:LEU:HD13	16:N3:433:GLU:HB3	1.69	0.68
11:I2:1110:SER:CB	16:N3:435:ALA:CA	2.68	0.68
11:I3:1275:SER:HB2	26:X1:508:LEU:CD1	2.23	0.68
11:I3:1278:ALA:O	26:X1:520:GLU:CB	2.41	0.68
21:S2:1074:LEU:HD13	21:S2:1122:VAL:HG13	1.74	0.68
22:T2:671:LYS:O	22:T2:674:VAL:HG12	1.94	0.68
23:U1:405:GLU:OE2	31:c2:545:PRO:HG2	1.90	0.68
23:U2:45:ALA:HB1	31:c4:470:ARG:O	1.91	0.68
23:U3:278:GLN:OE1	25:W4:192:GLN:N	2.27	0.68
28:Z1:549:LYS:HB3	30:b1:182:PRO:CG	2.23	0.68
28:Z4:555:LYS:HG2	30:b4:213:ASP:N	2.05	0.68
2:A2:460:ARG:NH2	2:A2:463:ASP:OD2	2.26	0.68
2:A2:1142:PHE:HZ	3:A5:567:VAL:CG2	0.25	0.68
1:A3:1186:TRP:CZ3	3:A6:617:VAL:HG11	2.28	0.68
1:A3:1201:ARG:H	2:A4:729:SER:C	2.01	0.68
1:A3:1228:TYR:C	3:A6:574:ARG:HB3	2.15	0.68
1:A3:1254:LEU:N	3:A6:634:ASP:HB3	2.08	0.68
2:A4:93:ASP:CG	3:A6:361:ASP:CB	2.66	0.68
2:A4:615:LEU:CD1	3:A6:511:PHE:HD2	2.01	0.68
2:A4:721:ARG:O	3:A6:547:GLU:OE2	2.11	0.68
2:A4:893:LEU:CD2	3:A6:177:ILE:N	2.51	0.68
3:A5:156:ALA:C	5:C2:741:THR:CG2	2.66	0.68
3:A5:1392:ARG:HD3	28:Z2:866:GLU:C	2.18	0.68
6:D7:578:ARG:NH2	6:D7:624:GLU:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1264:ARG:NE	17:O2:263:GLN:CA	2.56	0.68
11:I1:937:TYR:HD2	15:M1:602:MET:HE1	1.59	0.68
11:I1:984:GLU:HB3	15:M1:618:GLN:CD	2.17	0.68
11:I1:1031:ALA:O	20:R1:173:LEU:HD12	1.94	0.68
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG11	2.23	0.68
11:I2:887:GLN:C	17:O3:242:ARG:NE	2.49	0.68
11:I2:896:PRO:HD3	17:O3:233:THR:O	1.94	0.68
11:I2:1040:HIS:HE1	16:N3:437:VAL:CG1	2.05	0.68
11:I3:1278:ALA:CA	26:X1:520:GLU:HA	2.22	0.68
17:O3:102:LYS:CG	18:P3:322:LYS:NZ	2.39	0.68
18:P1:277:PRO:CA	18:P4:323:GLN:N	2.54	0.68
21:S1:866:TYR:O	21:S1:868:ASP:N	2.24	0.68
21:S1:1074:LEU:HD13	21:S1:1122:VAL:HG13	1.74	0.68
27:Y1:41:ASP:HA	29:a1:230:GLN:OE1	1.94	0.68
2:A2:862:LEU:N	6:D1:606:LYS:CE	2.55	0.68
2:A2:977:VAL:C	6:D1:496:LEU:CD1	2.60	0.68
1:A3:1158:ALA:O	3:A6:647:GLU:CA	2.42	0.68
1:A3:1192:GLN:CA	3:A6:645:PHE:CE2	2.76	0.68
1:A3:1228:TYR:CD1	3:A6:551:GLN:C	2.70	0.68
2:A4:672:ARG:HG3	3:A6:96:PRO:HG2	1.29	0.68
2:A4:714:GLN:OE1	3:A6:490:PHE:N	2.12	0.68
2:A4:754:HIS:CB	3:A6:93:ASP:OD1	2.39	0.68
2:A4:771:ILE:CD1	3:A6:476:PHE:CG	2.77	0.68
2:A4:795:GLN:O	3:A6:250:PHE:HE2	1.74	0.68
2:A4:882:SER:OG	3:A6:133:LYS:HD2	1.94	0.68
2:A4:954:ILE:C	4:B6:345:LYS:HA	2.19	0.68
2:A4:985:ALA:HB3	6:D3:496:LEU:O	1.93	0.68
2:A4:1151:THR:HG23	5:C4:734:VAL:O	1.93	0.68
3:A5:1365:VAL:CG1	28:Z2:841:ALA:CB	2.72	0.68
6:D3:451:SER:O	6:D3:455:VAL:HG13	1.93	0.68
8:F1:1138:TRP:N	17:O2:244:GLU:C	2.49	0.68
8:F1:1265:GLN:HA	17:O2:265:ASN:HB2	1.75	0.68
11:I1:939:ASN:O	17:O1:262:ASP:O	2.12	0.68
11:I1:945:LEU:CG	17:O1:257:ALA:N	2.54	0.68
11:I1:951:LYS:HB3	17:O1:253:LEU:CD2	2.24	0.68
11:I1:1047:CYS:C	20:R1:143:PHE:HE1	2.02	0.68
11:I2:884:LEU:C	16:N3:397:GLU:HG2	2.19	0.68
11:I2:924:ILE:HD13	15:M3:595:MET:CG	2.24	0.68
11:I2:1013:GLU:HA	16:N3:411:GLN:OE1	1.93	0.68
11:I2:1040:HIS:O	15:M3:616:LEU:CD1	2.42	0.68
11:I2:1051:LYS:HZ3	17:O3:285:LYS:NZ	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1268:LYS:O	26:X1:524:SER:O	2.12	0.68
17:O4:110:LEU:CD2	18:P4:321:ILE:HG13	2.22	0.68
21:S2:293:ASN:CB	21:S2:310:TRP:O	2.42	0.68
21:S3:293:ASN:CB	21:S3:310:TRP:O	2.42	0.68
23:U1:405:GLU:CA	31:c2:545:PRO:HA	2.17	0.68
23:U2:24:ILE:CD1	31:c4:481:ILE:O	2.42	0.68
26:X2:195:GLN:C	34:i:364:TYR:OH	2.36	0.68
26:X2:291:LEU:C	34:i:415:SER:CB	2.50	0.68
26:X3:163:LYS:HB2	26:X3:172:PHE:CD1	2.29	0.68
28:Z2:527:SER:CB	30:b2:204:GLU:HG3	2.23	0.68
28:Z3:555:LYS:HG2	30:b3:213:ASP:N	2.05	0.68
31:c4:499:LEU:HD11	31:c4:523:LEU:HD22	1.74	0.68
2:A2:965:LYS:HA	6:D1:199:GLY:C	2.19	0.68
1:A3:1186:TRP:C	3:A6:642:ARG:N	2.47	0.68
1:A3:1201:ARG:HG3	3:A6:548:LEU:C	2.17	0.68
1:A3:1236:GLN:HG3	3:A6:578:ILE:CA	2.24	0.68
1:A3:1271:ILE:CD1	3:A6:552:PHE:N	2.56	0.68
1:A3:1396:GLY:HA2	2:A4:888:GLN:CB	2.24	0.68
2:A4:574:ARG:NH2	3:A6:456:ASP:N	2.42	0.68
2:A4:682:ARG:HD3	3:A6:106:ALA:HA	1.69	0.68
2:A4:856:PHE:HZ	3:A6:565:THR:O	1.77	0.68
2:A4:876:ARG:HD2	6:D3:559:ASP:N	2.08	0.68
2:A4:982:THR:HG21	6:D3:494:LEU:C	2.19	0.68
2:A4:986:THR:CG2	6:D3:504:LYS:HG2	1.83	0.68
2:A4:987:LYS:CE	6:D3:555:ARG:HG2	2.22	0.68
9:G1:262:SER:CB	17:O2:256:TYR:OH	2.38	0.68
11:I1:841:PHE:CE1	17:O1:243:LEU:CD1	2.69	0.68
11:I1:942:HIS:O	17:O1:260:LEU:N	2.26	0.68
11:I1:948:ALA:HB3	17:O1:256:TYR:HB3	1.76	0.68
11:I1:1667:GLN:C	11:I2:1665:LEU:HD23	2.19	0.68
11:I2:1109:LEU:HB3	16:N3:438:LEU:CA	2.09	0.68
11:I2:1109:LEU:HD21	17:O3:287:LEU:CD1	2.22	0.68
11:I3:1274:HIS:CG	26:X1:534:ILE:HB	2.29	0.68
22:T3:671:LYS:O	22:T3:674:VAL:HG12	1.94	0.68
23:U2:15:PHE:CE2	31:c4:477:GLU:HB2	2.30	0.68
26:X1:401:LYS:HD2	37:k2:450:HIS:CB	2.24	0.68
26:X2:292:LEU:C	34:i:448:PHE:HE2	2.01	0.68
26:X2:361:LEU:CD2	34:i:423:LYS:CD	2.58	0.68
27:Y3:306:GLU:N	27:Y3:324:ASP:OD2	2.27	0.68
28:Z1:410:ASN:N	30:b1:251:ILE:HD12	2.04	0.68
28:Z1:447:GLU:HG3	30:b1:248:SER:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:527:SER:CB	30:b1:204:GLU:HG3	2.23	0.68
28:Z3:410:ASN:N	30:b3:251:ILE:CD1	2.56	0.68
28:Z3:443:LEU:CD2	30:b3:250:GLY:HA2	2.24	0.68
1:A1:874:VAL:CG1	6:D3:272:VAL:CB	2.70	0.67
2:A2:973:GLU:CG	6:D1:192:TYR:CD2	2.42	0.67
2:A2:986:THR:HG23	6:D1:497:PHE:CE1	2.29	0.67
2:A2:1132:PRO:O	3:A5:138:LEU:CD2	2.42	0.67
2:A2:1142:PHE:CZ	3:A5:567:VAL:N	2.62	0.67
1:A3:1242:THR:HG22	3:A6:587:VAL:HB	1.68	0.67
2:A4:607:ARG:CD	3:A6:505:ALA:HB3	2.24	0.67
2:A4:675:ALA:CB	3:A6:508:LEU:CD1	2.72	0.67
2:A4:781:ARG:HH12	6:D3:674:TYR:HE1	1.41	0.67
2:A4:975:GLU:C	6:D3:496:LEU:O	2.37	0.67
3:A5:1004:HIS:HE1	11:I5:62:GLU:N	1.87	0.67
3:A5:1374:ALA:H	28:Z2:824:PHE:HA	1.58	0.67
3:A5:1394:VAL:CG1	28:Z2:874:ASN:C	2.46	0.67
6:D1:451:SER:O	6:D1:455:VAL:HG13	1.93	0.67
6:D2:622:PHE:CB	6:D2:645:LEU:HD21	2.25	0.67
8:F1:1262:HIS:ND1	17:O2:259:ASP:CB	2.30	0.67
11:I1:934:LEU:H	15:M1:602:MET:N	1.90	0.67
11:I1:976:ARG:HB3	20:R1:149:ARG:CA	2.24	0.67
11:I1:978:LYS:CG	20:R1:150:ASN:C	2.57	0.67
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB3	1.75	0.67
11:I1:1030:ARG:HE	20:R1:179:LYS:HD3	1.57	0.67
11:I1:1034:ASP:OD1	20:R1:177:LEU:HD23	1.94	0.67
11:I2:1032:THR:HG23	15:M3:627:LEU:C	1.85	0.67
11:I3:1277:LEU:CD2	26:X1:513:PHE:CG	2.75	0.67
17:O3:151:LEU:CD2	18:P3:325:ILE:HD11	2.20	0.67
21:S1:798:ARG:N	31:c4:408:ASN:CA	2.35	0.67
21:S4:1074:LEU:HD13	21:S4:1122:VAL:HG13	1.74	0.67
23:U2:398:ILE:HD12	31:c4:555:VAL:HG13	1.76	0.67
23:U3:274:GLN:NE2	25:W4:187:TYR:OH	2.25	0.67
26:X1:163:LYS:HB2	26:X1:172:PHE:CD1	2.29	0.67
26:X1:401:LYS:HZ2	37:k2:450:HIS:HB3	1.56	0.67
26:X2:192:LEU:HD22	34:i:442:SER:OG	1.93	0.67
26:X2:287:ASP:CB	34:i:492:TRP:O	2.43	0.67
26:X3:454:LEU:O	26:X3:456:SER:N	2.26	0.67
27:Y2:306:GLU:N	27:Y2:324:ASP:OD2	2.27	0.67
28:Z1:524:VAL:CG2	30:b1:236:THR:HG22	2.19	0.67
28:Z3:531:LYS:HZ3	30:b3:166:LEU:HB2	1.59	0.67
1:A1:1399:ARG:NH2	2:A2:888:GLN:CB	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:779:ASP:CB	6:D1:679:ILE:O	2.42	0.67
2:A2:868:GLN:CB	6:D1:598:ILE:HD13	2.24	0.67
2:A2:977:VAL:HA	6:D1:496:LEU:HD12	1.71	0.67
1:A3:1263:ILE:HG22	3:A6:715:GLU:HB2	1.76	0.67
2:A4:537:ALA:H	3:A6:368:SER:CA	1.91	0.67
2:A4:673:HIS:CE1	3:A6:98:LEU:N	2.60	0.67
2:A4:676:LEU:HG	3:A6:499:ILE:HG21	1.76	0.67
2:A4:701:ILE:CG1	3:A6:466:ALA:HA	1.91	0.67
2:A4:734:LEU:CD1	3:A6:95:TYR:CD2	2.78	0.67
2:A4:754:HIS:N	3:A6:540:GLN:NE2	2.41	0.67
2:A4:803:GLU:OE2	3:A6:381:LEU:HD13	1.94	0.67
2:A4:803:GLU:OE2	3:A6:394:LEU:CD2	2.12	0.67
2:A4:822:ILE:O	3:A6:564:ASN:C	2.36	0.67
2:A4:855:THR:CB	3:A6:168:ASP:N	2.58	0.67
2:A4:1019:ARG:HH12	6:D3:239:THR:N	1.91	0.67
3:A6:1370:ALA:HB1	28:Z4:870:ILE:C	2.19	0.67
3:A6:1398:LYS:HB3	28:Z4:920:SER:CB	2.25	0.67
6:D5:500:LYS:HE2	31:c3:472:GLU:HG3	1.76	0.67
9:G1:253:SER:HG	15:M2:601:ASP:CG	2.02	0.67
11:I1:875:ARG:O	17:O1:248:SER:CA	2.42	0.67
11:I1:884:LEU:HD21	16:N1:396:ILE:HD13	1.76	0.67
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG2	1.74	0.67
11:I2:840:LEU:CD2	17:O3:247:TRP:CB	2.72	0.67
11:I2:896:PRO:HB3	17:O3:233:THR:CA	2.20	0.67
11:I2:924:ILE:HD13	15:M3:595:MET:HG2	1.76	0.67
11:I2:948:ALA:CB	17:O3:253:LEU:CA	2.33	0.67
11:I2:955:LYS:CE	16:N3:396:ILE:O	2.41	0.67
11:I2:1054:ILE:HG23	17:O3:278:GLU:H	1.59	0.67
11:I3:774:LYS:CG	29:a2:38:ASP:OD1	2.41	0.67
21:S3:601:LEU:N	21:S4:1156:ILE:CB	2.58	0.67
22:T4:671:LYS:O	22:T4:674:VAL:HG12	1.94	0.67
23:U2:24:ILE:CD1	31:c4:457:LEU:CD1	2.72	0.67
23:U2:391:HIS:CB	31:c4:476:PRO:C	2.57	0.67
23:U2:410:SER:HA	31:c4:540:HIS:C	2.17	0.67
23:U2:428:ASN:CA	31:c4:464:LEU:O	2.41	0.67
28:Z2:443:LEU:CD2	30:b2:250:GLY:HA2	2.24	0.67
28:Z3:401:THR:CA	30:b3:253:SER:N	2.55	0.67
28:Z3:521:SER:C	30:b3:238:ASN:CB	2.62	0.67
28:Z4:402:GLY:C	30:b4:273:LYS:CB	2.65	0.67
30:b4:193:ARG:NH1	30:b4:199:GLN:OE1	2.21	0.67
2:A2:227:SER:HB2	6:D1:711:PHE:CB	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:867:GLU:CB	6:D1:609:ILE:CG1	2.73	0.67
2:A2:870:HIS:ND1	6:D1:566:PHE:CD1	2.62	0.67
2:A2:907:SER:O	6:D1:601:PHE:CB	2.42	0.67
2:A2:987:LYS:HD2	6:D1:555:ARG:NH1	2.09	0.67
2:A2:1132:PRO:HB3	3:A5:144:PHE:C	2.17	0.67
1:A3:1083:SER:HB2	6:D3:798:MET:HE1	1.47	0.67
1:A3:1188:ASN:HB3	3:A6:645:PHE:CG	2.30	0.67
1:A3:1190:ILE:CB	3:A6:615:LEU:O	2.42	0.67
1:A3:1257:VAL:HG13	3:A6:619:CYS:C	2.19	0.67
1:A3:1261:TYR:CD1	3:A6:621:GLN:HB3	1.22	0.67
2:A4:720:LEU:CD1	3:A6:494:PRO:CB	2.73	0.67
2:A4:761:GLN:CD	3:A6:535:PHE:CZ	2.72	0.67
2:A4:799:ASP:CG	3:A6:250:PHE:CE2	2.71	0.67
2:A4:816:LYS:CE	3:A6:157:TRP:HD1	2.06	0.67
2:A4:878:LEU:HB2	6:D3:567:LEU:CB	2.22	0.67
2:A4:965:LYS:CE	6:D3:196:ILE:O	2.31	0.67
2:A4:1055:ARG:HD2	6:D4:762:ARG:CB	2.04	0.67
3:A5:232:LEU:CG	5:C2:739:MET:CG	2.68	0.67
6:D4:622:PHE:CB	6:D4:645:LEU:HD21	2.25	0.67
11:I1:357:ASP:OD1	11:I1:360:ARG:NH2	2.28	0.67
11:I1:984:GLU:CB	15:M1:618:GLN:CG	2.67	0.67
11:I2:887:GLN:OE1	16:N3:393:ILE:HG12	1.94	0.67
11:I2:921:GLU:OE1	15:M3:592:LEU:HD11	1.94	0.67
21:S3:100:GLU:O	21:S3:103:ASP:N	2.21	0.67
26:X2:300:SER:H	34:i:367:GLU:C	2.02	0.67
26:X2:303:PHE:N	34:i:416:VAL:HG11	2.08	0.67
26:X2:333:GLU:OE2	34:i:475:ILE:HB	1.84	0.67
26:X4:163:LYS:HB2	26:X4:172:PHE:CD1	2.29	0.67
27:Y1:220:TRP:HA	27:Y1:231:ILE:HG22	1.76	0.67
28:Z4:528:ILE:C	30:b4:184:SER:OG	1.99	0.67
2:A2:858:ALA:CA	6:D1:606:LYS:HE2	2.24	0.67
2:A2:980:ARG:N	6:D1:473:GLU:CG	2.58	0.67
2:A2:1131:ILE:HA	3:A5:160:ILE:CG2	2.24	0.67
1:A3:1150:LEU:HD21	3:A6:590:SER:HB2	1.76	0.67
1:A3:1233:GLN:CD	3:A6:605:TYR:CE2	2.63	0.67
2:A4:682:ARG:NH2	3:A6:105:GLY:C	2.39	0.67
2:A4:727:ASN:ND2	3:A6:497:GLY:C	2.51	0.67
2:A4:754:HIS:CA	3:A6:543:GLY:C	2.66	0.67
2:A4:827:ILE:HG12	3:A6:130:ILE:O	1.91	0.67
2:A4:982:THR:CG2	6:D3:494:LEU:C	2.67	0.67
3:A5:160:ILE:HD12	5:C2:743:LEU:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1385:GLU:CD	28:Z2:863:ASP:CB	2.67	0.67
3:A6:136:GLU:OE1	6:D3:604:ASP:O	1.88	0.67
3:A6:1391:ARG:NH1	28:Z4:873:LEU:CB	2.57	0.67
6:D1:622:PHE:CB	6:D1:645:LEU:HD21	2.25	0.67
9:G1:263:MET:HB3	17:O2:260:LEU:CG	2.23	0.67
11:I1:840:LEU:CG	17:O1:244:GLU:HG2	2.06	0.67
11:I1:980:ILE:CD1	15:M1:622:VAL:H	1.99	0.67
11:I2:886:LEU:CD1	17:O3:245:GLU:CB	2.60	0.67
11:I2:930:LEU:O	15:M3:601:ASP:O	1.96	0.67
11:I2:947:LEU:HA	16:N3:407:ALA:CA	2.00	0.67
11:I2:992:ILE:HG23	15:M3:607:SER:O	1.70	0.67
18:P1:277:PRO:HB2	18:P4:322:LYS:H	1.58	0.67
21:S1:293:ASN:CB	21:S1:310:TRP:O	2.42	0.67
21:S1:671:ALA:HB2	21:S2:1146:ALA:N	1.99	0.67
21:S4:293:ASN:CB	21:S4:310:TRP:O	2.42	0.67
23:U2:26:GLN:HA	31:c4:490:GLY:CA	2.21	0.67
23:U2:408:ASP:N	31:c4:542:LYS:C	2.50	0.67
23:U3:278:GLN:HB2	25:W4:187:TYR:OH	1.93	0.67
26:X2:196:ASP:C	34:i:439:GLN:HA	2.14	0.67
26:X2:324:ILE:HD11	34:i:476:LEU:HB3	1.75	0.67
26:X2:336:LEU:CG	34:i:478:PRO:CD	2.65	0.67
27:Y2:102:CYS:SG	27:Y2:103:THR:N	2.67	0.67
28:Z3:335:VAL:HG13	28:Z3:352:ILE:HB	1.77	0.67
28:Z4:554:PHE:CE2	30:b4:233:TRP:C	2.73	0.67
31:c3:406:ILE:HG23	31:c3:409:ILE:HD11	1.75	0.67
33:h:272:LEU:HD23	33:h:272:LEU:C	2.20	0.67
1:A1:1098:ARG:NH1	11:I1:1414:CYS:HB2	2.09	0.67
2:A2:867:GLU:CB	6:D1:605:THR:HB	2.24	0.67
2:A2:876:ARG:CZ	6:D1:563:GLU:C	2.28	0.67
2:A2:1136:LYS:HG3	3:A5:138:LEU:C	2.19	0.67
1:A3:1052:THR:OG1	6:D3:816:VAL:CG2	2.42	0.67
1:A3:1153:LEU:CD1	3:A6:592:ASP:OD1	2.41	0.67
1:A3:1172:HIS:CB	3:A6:587:VAL:C	2.25	0.67
1:A3:1332:ARG:NH2	6:D3:636:ASP:OD1	2.27	0.67
2:A4:89:LEU:N	3:A6:406:LEU:CA	2.55	0.67
2:A4:684:VAL:CG1	3:A6:395:MET:SD	2.83	0.67
2:A4:685:ARG:CG	3:A6:404:LEU:HD23	2.24	0.67
2:A4:691:LYS:HB2	3:A6:316:ARG:NE	2.05	0.67
2:A4:869:ALA:HB3	6:D3:573:LEU:HD23	1.74	0.67
2:A4:985:ALA:CB	6:D3:501:LEU:H	2.07	0.67
3:A5:147:LEU:O	5:C2:747:PRO:CG	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:442:ARG:NE	6:D3:692:LEU:HD21	2.09	0.67
6:D5:622:PHE:CB	6:D5:645:LEU:HD21	2.25	0.67
6:D7:622:PHE:CB	6:D7:645:LEU:HD21	2.25	0.67
9:G1:252:LEU:HD22	17:O2:254:ARG:HH21	1.59	0.67
9:G2:256:GLN:HG2	17:O4:262:ASP:H	1.60	0.67
11:I1:899:LEU:HD21	17:O1:231:ASP:OD1	1.95	0.67
11:I1:911:PRO:C	15:M1:584:GLN:HE21	1.97	0.67
11:I1:1028:CYS:HB3	20:R1:169:GLY:O	1.95	0.67
11:I1:1049:LEU:C	17:O1:291:ASP:HB2	2.20	0.67
11:I1:1056:PRO:C	17:O1:277:GLU:C	2.61	0.67
11:I1:1669:ARG:CB	11:I2:1664:PHE:HE1	1.56	0.67
11:I2:833:PHE:CD1	17:O3:245:GLU:CG	2.78	0.67
11:I2:887:GLN:HE22	16:N3:396:ILE:HB	1.60	0.67
11:I2:899:LEU:HD12	17:O3:232:LYS:C	2.18	0.67
11:I2:945:LEU:HD13	17:O3:255:GLY:CA	2.24	0.67
11:I2:965:ALA:HB3	20:R3:154:ALA:HA	1.74	0.67
11:I2:980:ILE:HD12	20:R3:147:LEU:HB2	1.71	0.67
11:I5:357:ASP:OD1	11:I5:360:ARG:NH2	2.28	0.67
23:U1:24:ILE:C	31:c2:563:ARG:CD	2.68	0.67
23:U2:18:THR:HB	31:c4:478:SER:C	2.19	0.67
23:U2:434:THR:N	31:c4:460:LEU:HB3	2.08	0.67
23:U2:442:LEU:CD1	31:c4:462:HIS:CD2	2.77	0.67
27:Y4:306:GLU:N	27:Y4:324:ASP:OD2	2.27	0.67
28:Z1:410:ASN:N	30:b1:251:ILE:CD1	2.56	0.67
28:Z2:410:ASN:N	30:b2:251:ILE:CD1	2.56	0.67
31:c2:406:ILE:HG23	31:c2:409:ILE:HD11	1.75	0.67
31:c3:371:GLU:O	31:c3:375:THR:HG22	1.94	0.67
1:A1:1399:ARG:NE	2:A2:887:GLU:HB2	2.10	0.67
2:A2:878:LEU:HB2	6:D1:567:LEU:HD13	1.77	0.67
2:A2:1143:LEU:C	3:A5:129:ASN:HB2	2.20	0.67
1:A3:1192:GLN:CA	3:A6:645:PHE:HD2	2.03	0.67
1:A3:1228:TYR:HE2	3:A6:556:PRO:HG3	1.59	0.67
1:A3:1261:TYR:CD2	3:A6:621:GLN:HG2	1.87	0.67
1:A3:1271:ILE:CG2	3:A6:550:VAL:HG12	2.24	0.67
1:A3:1391:ARG:N	3:A6:225:THR:O	1.86	0.67
2:A4:675:ALA:HB2	3:A6:508:LEU:CB	2.21	0.67
2:A4:712:THR:N	3:A6:516:TRP:CZ2	2.62	0.67
2:A4:757:LEU:CG	3:A6:543:GLY:C	2.67	0.67
2:A4:781:ARG:NH1	6:D3:673:ARG:NH1	2.38	0.67
2:A4:821:ALA:HB3	3:A6:147:LEU:N	2.06	0.67
2:A4:908:LEU:HD23	6:D3:601:PHE:C	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:C	6:D3:496:LEU:CB	2.62	0.67
3:A5:1403:MSE:CB	28:Z2:920:SER:H	1.94	0.67
3:A6:442:ARG:HH21	6:D3:740:GLU:C	2.02	0.67
6:D6:622:PHE:CB	6:D6:645:LEU:HD21	2.25	0.67
9:G1:257:THR:CB	17:O2:250:LEU:HA	2.23	0.67
11:I1:955:LYS:N	16:N1:403:VAL:HG23	2.09	0.67
11:I1:1677:LYS:CE	11:I2:1543:LEU:CD1	2.70	0.67
11:I2:357:ASP:OD1	11:I2:360:ARG:NH2	2.28	0.67
11:I2:900:ARG:CG	17:O3:232:LYS:NZ	2.48	0.67
11:I2:962:ILE:HA	20:R3:164:PRO:C	1.74	0.67
11:I5:1278:ALA:HB3	26:X2:517:ASP:OD1	1.95	0.67
17:O2:111:TYR:H	18:P2:325:ILE:HG23	1.58	0.67
17:O3:148:ARG:NE	18:P3:325:ILE:HG23	2.07	0.67
17:O3:161:ASN:C	18:P3:315:GLU:CD	2.54	0.67
22:T1:736:LEU:HB2	31:c5:19:THR:CA	2.24	0.67
23:U1:431:ILE:HG13	31:c2:468:THR:CA	2.25	0.67
23:U3:278:GLN:OE1	25:W4:192:GLN:HA	1.93	0.67
26:X2:163:LYS:HB2	26:X2:172:PHE:CD1	2.29	0.67
26:X2:308:ASN:C	34:i:405:TYR:HA	2.16	0.67
28:Z2:411:LEU:HG	30:b2:251:ILE:CG1	2.25	0.67
28:Z2:523:ASP:OD1	30:b2:238:ASN:OD1	2.13	0.67
28:Z3:411:LEU:HD23	30:b3:251:ILE:HG21	1.74	0.67
2:A2:1154:PHE:HD2	3:A5:175:GLU:OE2	1.73	0.67
1:A3:1229:VAL:CG2	3:A6:574:ARG:HG2	2.24	0.67
1:A3:1260:ALA:CB	3:A6:719:ARG:HD2	2.00	0.67
1:A3:1387:ILE:O	3:A6:225:THR:O	2.12	0.67
1:A3:1399:ARG:HB3	2:A4:884:ARG:HE	1.58	0.67
2:A4:554:GLN:NE2	3:A6:370:PRO:HD2	2.10	0.67
2:A4:669:LEU:HA	3:A6:542:LEU:HD12	1.74	0.67
2:A4:954:ILE:H	4:B6:346:LEU:H	1.42	0.67
3:A6:485:ASN:HB2	6:D3:674:TYR:N	1.93	0.67
8:F1:1203:TRP:HH2	17:O2:248:SER:CA	1.63	0.67
8:F1:1261:TYR:CG	17:O2:259:ASP:OD2	2.46	0.67
8:F1:1267:ARG:HH22	17:O2:268:GLY:HA2	1.58	0.67
8:F1:1808:VAL:O	8:F1:1833:ARG:NH1	2.28	0.67
11:I1:834:SER:N	17:O1:237:PRO:CB	2.53	0.67
11:I1:834:SER:CA	17:O1:237:PRO:O	2.37	0.67
11:I1:951:LYS:CB	16:N1:400:LEU:O	2.41	0.67
11:I1:955:LYS:HB2	16:N1:400:LEU:CG	2.09	0.67
11:I1:1101:LEU:HD23	16:N1:432:TYR:HE1	1.59	0.67
11:I2:879:VAL:C	17:O3:246:LEU:O	2.37	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:918:SER:OG	16:N3:389:PHE:CD2	2.10	0.67
11:I2:952:LEU:CD1	15:M3:599:ILE:HG12	2.24	0.67
11:I2:1054:ILE:N	17:O3:281:ALA:C	2.47	0.67
11:I3:1584:LEU:HD21	12:J3:275:PHE:CD1	2.30	0.67
21:S3:138:VAL:CG1	21:S3:170:THR:HG22	2.22	0.67
22:T2:739:GLU:OE1	31:c4:332:LYS:HB3	1.92	0.67
24:V1:287:ASN:CB	31:c1:11:TYR:CZ	2.76	0.67
27:Y1:102:CYS:SG	27:Y1:103:THR:N	2.67	0.67
27:Y1:161:PRO:HB2	27:Y1:164:HIS:CD2	2.30	0.67
28:Z2:528:ILE:C	30:b2:184:SER:OG	1.99	0.67
28:Z3:558:LEU:HA	30:b3:236:THR:H	1.59	0.67
28:Z4:410:ASN:N	30:b4:251:ILE:CD1	2.56	0.67
28:Z4:443:LEU:CD2	30:b4:250:GLY:HA2	2.24	0.67
28:Z4:525:LEU:C	30:b4:208:ASN:CG	2.60	0.67
30:b2:193:ARG:NH1	30:b2:199:GLN:OE1	2.21	0.67
31:c2:371:GLU:O	31:c2:375:THR:HG22	1.94	0.67
31:c4:406:ILE:HG23	31:c4:409:ILE:HD11	1.75	0.67
32:g:145:LEU:HD23	32:g:145:LEU:H	1.60	0.67
1:A1:1222:ALA:O	2:A2:731:ILE:HD11	1.94	0.67
1:A1:1226:LEU:HA	2:A2:728:LYS:CB	2.25	0.67
2:A2:1131:ILE:N	3:A5:140:ALA:CA	2.30	0.67
1:A3:1170:ILE:N	3:A6:590:SER:O	2.27	0.67
1:A3:1228:TYR:HB2	3:A6:576:VAL:CG2	2.25	0.67
1:A3:1232:SER:O	3:A6:577:ASP:O	1.96	0.67
2:A4:616:ALA:CB	3:A6:509:LYS:CB	2.73	0.67
2:A4:796:GLN:CA	3:A6:249:SER:HB3	2.24	0.67
2:A4:803:GLU:CG	3:A6:382:SER:C	2.66	0.67
2:A4:819:VAL:C	3:A6:147:LEU:HB3	2.20	0.67
2:A4:825:ARG:HA	3:A6:138:LEU:CD1	2.22	0.67
2:A4:972:GLY:O	6:D3:206:VAL:CG1	2.41	0.67
2:A4:1094:ILE:HG21	6:D4:759:GLN:HG2	1.76	0.67
3:A5:234:LEU:N	5:C2:737:LYS:HB2	2.05	0.67
3:A6:442:ARG:NH2	6:D3:740:GLU:C	2.52	0.67
11:I1:934:LEU:H	15:M1:602:MET:CA	1.89	0.67
11:I1:1013:GLU:O	16:N1:411:GLN:CG	2.43	0.67
11:I1:1021:ILE:HA	16:N1:406:HIS:CE1	2.23	0.67
11:I1:1056:PRO:C	17:O1:278:GLU:HB2	2.18	0.67
11:I1:1668:HIS:CA	11:I2:1668:HIS:HB2	2.25	0.67
11:I1:1736:LEU:CD1	11:I2:1607:GLN:HE21	2.07	0.67
11:I2:958:THR:OG1	16:N3:399:HIS:CD2	2.46	0.67
11:I2:1034:ASP:CB	15:M3:630:LEU:CD1	2.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:284:ALA:C	34:i:493:PRO:CD	2.67	0.67
26:X2:332:ILE:CG2	34:i:477:GLY:HA3	2.24	0.67
27:Y4:102:CYS:SG	27:Y4:103:THR:N	2.67	0.67
28:Z1:443:LEU:CD2	30:b1:250:GLY:HA2	2.24	0.67
28:Z4:400:LYS:O	30:b4:252:ALA:HB1	1.94	0.67
2:A2:971:ALA:O	6:D1:203:PRO:CB	2.43	0.67
2:A2:1157:TYR:CZ	3:A5:167:TRP:CD1	2.83	0.67
2:A2:1160:GLN:H	3:A5:176:LEU:HB2	1.59	0.67
1:A3:1198:GLU:HB3	3:A6:678:LEU:O	1.95	0.67
1:A3:1199:GLN:CB	3:A6:678:LEU:HD22	2.24	0.67
2:A4:541:PRO:O	3:A6:364:HIS:CA	2.43	0.67
2:A4:555:VAL:HG23	3:A6:437:ARG:NH2	2.05	0.67
2:A4:717:VAL:CB	3:A6:492:SER:C	2.63	0.67
2:A4:788:ARG:C	3:A6:145:THR:O	2.33	0.67
3:A5:232:LEU:HD22	5:C2:740:ARG:HG2	1.77	0.67
3:A6:1398:LYS:CD	28:Z4:918:PHE:C	2.63	0.67
11:I1:928:LEU:CD1	20:R1:155:GLU:HG3	2.25	0.67
11:I1:936:LYS:HG2	15:M1:609:GLY:CA	2.25	0.67
11:I1:1056:PRO:CD	17:O1:278:GLU:HG2	2.25	0.67
11:I1:1666:THR:HG21	11:I2:1602:PHE:CD1	2.29	0.67
11:I2:828:VAL:CG1	17:O3:237:PRO:HG2	2.19	0.67
11:I2:917:TYR:CG	15:M3:591:ASP:N	2.49	0.67
11:I2:962:ILE:O	20:R3:165:SER:OG	1.92	0.67
11:I2:1020:ALA:CA	16:N3:410:MET:H	2.01	0.67
11:I2:1049:LEU:C	17:O3:287:LEU:C	2.57	0.67
11:I2:1543:LEU:C	12:J1:300:ILE:HA	2.19	0.67
23:U2:34:ASP:OD1	31:c4:561:THR:HG22	1.91	0.67
23:U2:162:LEU:HB3	24:V2:315:LYS:HG3	1.74	0.67
23:U3:278:GLN:CG	25:W4:189:SER:C	2.66	0.67
26:X2:196:ASP:HB2	34:i:364:TYR:CE2	2.22	0.67
26:X2:369:GLU:CG	34:i:428:LEU:HD23	1.15	0.67
28:Z2:400:LYS:O	30:b2:252:ALA:HB1	1.95	0.67
28:Z4:527:SER:HB2	30:b4:204:GLU:CG	2.22	0.67
31:c4:371:GLU:O	31:c4:375:THR:HG22	1.94	0.67
2:A2:972:GLY:N	6:D1:204:ASN:HA	2.08	0.67
2:A2:980:ARG:HH22	6:D1:503:LEU:CD1	2.08	0.67
2:A2:980:ARG:HH22	6:D1:503:LEU:HD12	1.58	0.67
1:A3:1196:GLU:C	3:A6:609:GLU:CG	2.68	0.67
1:A3:1269:ALA:O	3:A6:554:GLN:CB	2.37	0.67
1:A3:1285:LEU:HD13	3:A6:581:LYS:HA	1.77	0.67
2:A4:685:ARG:CB	3:A6:404:LEU:HD23	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:715:GLU:CA	3:A6:515:THR:N	2.54	0.67
2:A4:792:VAL:N	3:A6:247:ASP:OD1	2.28	0.67
3:A6:1368:GLN:HA	28:Z4:875:LEU:CB	2.19	0.67
6:D3:622:PHE:CB	6:D3:645:LEU:HD21	2.25	0.67
11:I1:828:VAL:O	17:O1:237:PRO:CG	2.42	0.67
11:I1:923:GLY:HA2	15:M1:590:LYS:CA	2.25	0.67
11:I1:931:VAL:HG23	15:M1:604:ASN:H	1.56	0.67
11:I1:947:LEU:CD1	16:N1:407:ALA:O	2.43	0.67
11:I1:1052:LEU:H	17:O1:286:ILE:CB	2.07	0.67
11:I1:1665:LEU:CD1	11:I2:1667:GLN:NE2	2.53	0.67
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CD2	2.18	0.67
11:I3:1276:GLN:NE2	26:X1:534:ILE:O	2.23	0.67
11:I3:1278:ALA:CB	26:X1:516:ASN:O	2.41	0.67
23:U2:440:ASP:OD2	31:c4:428:ARG:HB3	1.95	0.67
26:X2:315:GLN:CB	34:i:399:PRO:O	2.36	0.67
26:X2:363:TYR:HA	34:i:418:LEU:O	1.91	0.67
27:Y3:220:TRP:HA	27:Y3:231:ILE:HG22	1.76	0.67
28:Z1:400:LYS:O	30:b1:252:ALA:HB1	1.94	0.67
31:c5:406:ILE:HG23	31:c5:409:ILE:HD11	1.75	0.67
2:A2:1154:PHE:HD2	3:A5:175:GLU:CG	2.05	0.66
2:A2:1305:ALA:HB1	2:A2:1306:PRO:HD3	1.75	0.66
1:A3:1186:TRP:CZ3	3:A6:583:LEU:CD2	2.79	0.66
1:A3:1191:ASN:ND2	3:A6:723:PHE:CE2	2.59	0.66
2:A4:90:GLN:CB	3:A6:428:GLN:CB	2.45	0.66
2:A4:678:LEU:O	3:A6:431:PHE:CE2	2.47	0.66
2:A4:769:GLU:O	3:A6:528:ILE:CG1	2.43	0.66
2:A4:770:GLY:CA	3:A6:469:PHE:CB	1.98	0.66
2:A4:779:ASP:O	6:D3:679:ILE:HB	1.88	0.66
2:A4:860:GLU:HG3	6:D3:606:LYS:HB3	1.70	0.66
2:A4:951:GLU:CD	3:A6:233:THR:CB	2.64	0.66
2:A4:1019:ARG:NH1	6:D3:238:ALA:C	2.52	0.66
2:A4:1120:ASP:OD2	2:A4:1241:ARG:NH2	2.28	0.66
8:F1:1137:GLN:CB	17:O2:248:SER:CA	2.69	0.66
11:I1:837:MET:CE	17:O1:242:ARG:H	1.82	0.66
11:I1:882:LYS:CA	17:O1:249:ARG:HD2	2.24	0.66
11:I1:934:LEU:CA	15:M1:602:MET:CE	2.52	0.66
11:I1:939:ASN:O	17:O1:262:ASP:HA	1.95	0.66
11:I1:953:LEU:HD23	15:M1:599:ILE:O	1.93	0.66
11:I1:976:ARG:N	20:R1:149:ARG:HB3	2.10	0.66
11:I1:978:LYS:CE	20:R1:154:ALA:C	2.37	0.66
11:I1:1049:LEU:CB	17:O1:291:ASP:CB	2.56	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1584:LEU:HD21	12:J1:275:PHE:CD1	2.30	0.66
11:I3:357:ASP:OD1	11:I3:360:ARG:NH2	2.28	0.66
17:O1:103:VAL:CG1	18:P1:326:GLN:HE21	1.90	0.66
22:T1:720:ILE:HG22	31:c5:31:TYR:CD2	2.14	0.66
23:U2:396:LEU:HA	31:c4:554:LEU:CB	2.25	0.66
23:U2:432:TYR:CD1	31:c4:464:LEU:CG	2.77	0.66
26:X2:296:PRO:HD3	34:i:416:VAL:HA	0.74	0.66
27:Y3:161:PRO:HB2	27:Y3:164:HIS:CD2	2.30	0.66
28:Z1:335:VAL:HG13	28:Z1:352:ILE:HB	1.77	0.66
28:Z3:400:LYS:O	30:b3:252:ALA:HB1	1.94	0.66
28:Z4:411:LEU:HG	30:b4:251:ILE:CG1	2.25	0.66
28:Z4:531:LYS:HZ3	30:b4:166:LEU:HB2	1.59	0.66
1:A3:1123:GLU:CG	3:A6:599:ARG:HD2	2.14	0.66
1:A3:1224:PRO:CG	2:A4:734:LEU:HD22	2.26	0.66
1:A3:1259:CYS:CA	3:A6:624:ASP:OD1	2.44	0.66
2:A4:720:LEU:CD2	3:A6:499:ILE:HD11	2.21	0.66
2:A4:724:LEU:HD11	3:A6:494:PRO:HB2	1.76	0.66
2:A4:728:LYS:HG2	3:A6:548:LEU:HD22	1.76	0.66
2:A4:761:GLN:OE1	3:A6:547:GLU:CA	2.42	0.66
2:A4:766:SER:C	3:A6:471:PHE:N	2.52	0.66
2:A4:806:PHE:HE2	3:A6:395:MET:HE1	0.98	0.66
2:A4:860:GLU:OE1	3:A6:129:ASN:CB	2.42	0.66
2:A4:983:LEU:CG	6:D3:528:PHE:CZ	2.45	0.66
3:A6:445:THR:O	6:D3:730:ARG:CD	2.32	0.66
3:A6:1364:GLN:NE2	28:Z4:879:PHE:C	2.53	0.66
8:F2:1808:VAL:O	8:F2:1833:ARG:NH1	2.28	0.66
9:G1:258:LYS:H	17:O2:253:LEU:N	1.93	0.66
11:I1:797:LEU:HD22	17:O1:241:SER:OG	1.94	0.66
11:I1:899:LEU:O	17:O1:232:LYS:CE	2.33	0.66
11:I1:922:ASP:CA	15:M1:592:LEU:HB3	2.25	0.66
11:I1:961:ARG:NH1	16:N1:389:PHE:CA	2.53	0.66
11:I2:895:ARG:CA	17:O3:234:LEU:O	2.42	0.66
11:I2:896:PRO:O	17:O3:232:LYS:O	2.13	0.66
11:I2:925:LEU:HG	15:M3:593:ALA:HB1	1.77	0.66
11:I2:1032:THR:CB	20:R3:173:LEU:HD11	2.15	0.66
11:I2:1042:LEU:O	16:N3:430:ARG:NE	2.28	0.66
11:I2:1046:HIS:N	17:O3:280:GLU:HB3	2.10	0.66
23:U1:23:LYS:O	31:c2:483:ASP:CG	2.38	0.66
23:U1:26:GLN:HE21	31:c2:562:LEU:HB3	1.60	0.66
24:V1:284:LYS:HZ1	31:c1:31:TYR:HD1	1.42	0.66
26:X2:287:ASP:HB2	34:i:480[A]:MET:HE3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y2:161:PRO:HB2	27:Y2:164:HIS:CD2	2.30	0.66
27:Y3:102:CYS:SG	27:Y3:103:THR:N	2.67	0.66
28:Z2:525:LEU:C	30:b2:208:ASN:CG	2.60	0.66
28:Z2:540:LEU:CA	30:b2:165:THR:HG23	2.21	0.66
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HA	2.11	0.66
1:A1:1204:TRP:HZ3	2:A2:757:LEU:HD13	1.52	0.66
2:A2:989:MSE:SE	6:D1:241:ALA:HB2	2.45	0.66
2:A2:1144:ASP:C	3:A5:129:ASN:HD21	1.99	0.66
2:A2:1151:THR:CA	5:C2:733:LEU:CA	2.60	0.66
1:A3:1196:GLU:OE2	3:A6:610:THR:N	2.28	0.66
1:A3:1230:TYR:HD1	3:A6:613:ALA:HB2	1.56	0.66
1:A3:1249:PHE:CE1	3:A6:637:THR:OG1	2.39	0.66
1:A3:1251:VAL:CG2	3:A6:633:MET:HB3	2.06	0.66
1:A3:1282:PHE:N	3:A6:625:LEU:CB	2.37	0.66
2:A4:648:TYR:CD2	3:A6:504:PRO:HD3	2.30	0.66
2:A4:782:VAL:CG2	6:D3:677:GLN:CA	2.67	0.66
2:A4:801:THR:CB	3:A6:380:ALA:C	2.67	0.66
2:A4:909:LYS:HG3	6:D3:552:TYR:CG	2.27	0.66
11:I1:873:ILE:CG2	17:O1:254:ARG:CB	2.74	0.66
11:I1:881:ILE:HG13	17:O1:249:ARG:O	1.94	0.66
11:I1:954:GLU:CB	16:N1:403:VAL:CA	2.72	0.66
11:I1:1055:GLU:CA	17:O1:281:ALA:N	2.47	0.66
11:I2:840:LEU:HD13	17:O3:247:TRP:HD1	1.61	0.66
11:I2:917:TYR:O	15:M3:588:MET:HB3	1.95	0.66
11:I2:1055:GLU:N	17:O3:281:ALA:H	1.93	0.66
11:I2:1058:GLY:CA	17:O3:277:GLU:C	2.64	0.66
11:I3:1267:LEU:CA	26:X1:529:TRP:HA	2.21	0.66
11:I5:1584:LEU:HD21	12:J5:275:PHE:CD1	2.30	0.66
23:U2:79:GLU:HB2	31:c4:556:GLN:HE21	1.60	0.66
23:U2:397:ASP:CB	31:c4:537:THR:OG1	2.44	0.66
23:U2:430:PRO:O	31:c4:461:PHE:HB2	1.95	0.66
24:V1:339:LEU:HD13	31:c1:627:ASP:CB	2.24	0.66
24:V3:209:PRO:HB3	24:V3:532:LYS:HB2	1.78	0.66
24:V4:209:PRO:HB3	24:V4:532:LYS:HB2	1.78	0.66
26:X2:277:THR:C	34:i:13:LEU:HG	2.19	0.66
26:X2:305:GLU:OE1	34:i:333:LEU:HD22	1.95	0.66
28:Z3:535:ILE:CD1	30:b3:182:PRO:HG3	2.25	0.66
2:A2:968:SER:CA	6:D1:202:GLN:HA	2.26	0.66
2:A2:1120:ASP:OD2	2:A2:1241:ARG:NH2	2.28	0.66
2:A2:1160:GLN:CG	3:A5:165:PHE:CA	2.72	0.66
1:A3:1091:VAL:CG2	6:D3:808:ASN:HB2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1091:VAL:CG1	6:D3:801:TYR:CZ	2.78	0.66
1:A3:1186:TRP:CZ2	3:A6:637:THR:CG2	2.39	0.66
1:A3:1223:GLU:C	3:A6:496:THR:O	2.39	0.66
1:A3:1230:TYR:CZ	3:A6:610:THR:N	2.43	0.66
1:A3:1232:SER:CB	3:A6:574:ARG:O	2.39	0.66
2:A4:615:LEU:HG	3:A6:509:LYS:O	1.90	0.66
2:A4:781:ARG:HH21	6:D3:633:LYS:NZ	1.94	0.66
2:A4:876:ARG:HG3	6:D3:558:LYS:HA	1.69	0.66
2:A4:1019:ARG:HH12	6:D3:239:THR:CA	2.08	0.66
3:A5:1378:GLY:C	28:Z2:812:LEU:CA	2.51	0.66
3:A5:1378:GLY:C	28:Z2:812:LEU:HA	1.95	0.66
3:A6:1368:GLN:CD	28:Z4:878:HIS:CB	2.67	0.66
3:A6:1416:ARG:CA	28:Z4:1002:MET:H	2.07	0.66
11:I2:936:LYS:CA	15:M3:609:GLY:CA	2.65	0.66
11:I2:1016:ARG:O	16:N3:408:MET:C	2.36	0.66
11:I2:1061:ASP:CG	17:O3:278:GLU:HB2	2.20	0.66
11:I2:1110:SER:HB3	16:N3:435:ALA:HA	1.78	0.66
17:O3:102:LYS:HB3	18:P3:322:LYS:CD	2.25	0.66
21:S4:866:TYR:O	21:S4:868:ASP:N	2.24	0.66
23:U2:25:GLU:HA	31:c4:489:LEU:HB2	1.75	0.66
23:U2:38:ILE:C	31:c4:559:ILE:CB	2.02	0.66
23:U2:431:ILE:CA	31:c4:464:LEU:CB	2.63	0.66
26:X2:191:ILE:CB	34:i:443:THR:HG22	2.21	0.66
27:Y4:161:PRO:HB2	27:Y4:164:HIS:CD2	2.30	0.66
27:Y4:220:TRP:HA	27:Y4:231:ILE:HG22	1.76	0.66
28:Z1:523:ASP:OD1	30:b1:238:ASN:OD1	2.13	0.66
28:Z2:525:LEU:C	30:b2:208:ASN:OD1	2.38	0.66
31:c5:609:VAL:HG12	31:c5:613:LEU:HG	1.77	0.66
2:A2:857:LYS:O	6:D1:606:LYS:CE	2.43	0.66
2:A2:1143:LEU:CA	3:A5:129:ASN:CB	2.73	0.66
2:A2:1156:ASP:CA	3:A5:166:LEU:O	2.27	0.66
1:A3:1179:PRO:O	3:A6:639:ASN:ND2	2.26	0.66
2:A4:684:VAL:HG11	3:A6:395:MET:SD	2.36	0.66
2:A4:792:VAL:HG23	3:A6:187:THR:OG1	1.96	0.66
3:A6:485:ASN:OD1	6:D3:670:ILE:O	2.14	0.66
3:A6:1402:ASP:HB3	26:X4:743:PHE:C	2.14	0.66
8:F2:1089:PRO:O	17:O4:245:GLU:O	2.13	0.66
11:I1:884:LEU:CD2	16:N1:396:ILE:HD13	2.26	0.66
11:I1:895:ARG:HH21	17:O1:233:THR:CG2	2.09	0.66
11:I1:966:TRP:CH2	20:R1:166:LEU:HA	2.31	0.66
11:I1:967:SER:OG	15:M1:628:ALA:HB3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1036:PRO:CA	15:M1:623:LEU:C	2.67	0.66
11:I1:1038:ILE:HD13	15:M1:620:VAL:CB	2.25	0.66
11:I1:1607:GLN:OE1	11:I2:1738:TYR:N	2.28	0.66
11:I1:1665:LEU:O	11:I2:1668:HIS:CD2	2.30	0.66
11:I2:836:VAL:CG1	17:O3:244:GLU:CB	1.89	0.66
11:I2:950:LEU:HB2	16:N3:407:ALA:HA	1.77	0.66
11:I2:955:LYS:CA	16:N3:403:VAL:HG23	2.24	0.66
11:I2:990:GLU:C	15:M3:608:LYS:HZ1	2.01	0.66
11:I2:1106:LYS:HB3	16:N3:440:GLU:CG	2.21	0.66
11:I4:1273:GLU:C	26:X3:524:SER:HB3	2.21	0.66
17:O4:109:PRO:O	18:P1:278:ASN:ND2	2.28	0.66
21:S4:251:MET:HG3	21:S4:272:LEU:HB2	1.78	0.66
22:T1:736:LEU:CD1	31:c5:19:THR:CB	2.74	0.66
23:U1:135:ARG:HD3	31:c1:634:HIS:C	2.18	0.66
23:U2:407:VAL:HA	31:c4:542:LYS:CG	2.26	0.66
26:X2:201:ARG:CZ	34:i:420:TRP:HE1	2.05	0.66
26:X2:306:TRP:O	34:i:404:ARG:HG2	1.96	0.66
27:Y1:306:GLU:N	27:Y1:324:ASP:OD2	2.27	0.66
27:Y2:220:TRP:HA	27:Y2:231:ILE:HG22	1.76	0.66
28:Z2:521:SER:OG	30:b2:238:ASN:CA	2.43	0.66
28:Z3:527:SER:HA	30:b3:204:GLU:CG	1.88	0.66
28:Z3:555:LYS:CG	30:b3:213:ASP:N	2.59	0.66
28:Z3:558:LEU:N	30:b3:235:LEU:C	2.46	0.66
30:b4:117:LYS:HG2	30:b4:122:ILE:HD13	1.78	0.66
1:A1:1399:ARG:CZ	2:A2:888:GLN:HG3	2.25	0.66
2:A2:226:PRO:HG2	6:D1:711:PHE:H	1.61	0.66
2:A2:227:SER:HB3	6:D1:712:ASP:N	2.10	0.66
2:A2:908:LEU:CD2	6:D1:602:THR:H	2.05	0.66
1:A3:1235:ILE:CD1	3:A6:617:VAL:HG22	2.23	0.66
1:A3:1251:VAL:H	3:A6:633:MET:HB3	1.60	0.66
1:A3:1392:ARG:CZ	3:A6:231:SER:HB3	2.25	0.66
2:A4:648:TYR:C	3:A6:505:ALA:N	2.53	0.66
2:A4:682:ARG:NE	3:A6:106:ALA:N	2.43	0.66
2:A4:750:ASN:HD22	3:A6:90:GLN:HG2	1.56	0.66
2:A4:778:PHE:CE1	3:A6:466:ALA:HB3	2.29	0.66
2:A4:823:VAL:HG11	3:A6:167:TRP:CE2	2.28	0.66
2:A4:868:GLN:HG3	6:D3:608:ILE:HG21	1.76	0.66
2:A4:876:ARG:HD3	6:D3:565:MET:HG2	0.76	0.66
2:A4:898:LEU:N	3:A6:176:LEU:C	2.54	0.66
2:A4:983:LEU:CG	6:D3:497:PHE:CE2	2.78	0.66
2:A4:989:MSE:HG3	6:D3:500:LYS:HD2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:998:SER:O	11:I5:63:PRO:CD	2.37	0.66
3:A5:1029:ILE:HG21	11:I5:71:GLU:H	1.59	0.66
5:C1:732:LYS:CG	11:I1:1228:GLU:HG3	2.26	0.66
6:D6:800:PRO:HG2	22:T3:765:LYS:HE3	1.75	0.66
8:F2:1329:LYS:O	8:F2:1364:ASN:ND2	2.29	0.66
11:I1:882:LYS:H	17:O1:249:ARG:HB3	1.32	0.66
11:I1:937:TYR:CD2	15:M1:602:MET:HE1	2.30	0.66
11:I1:955:LYS:CG	16:N1:397:GLU:O	2.42	0.66
11:I1:1110:SER:H	16:N1:437:VAL:C	2.01	0.66
11:I2:840:LEU:CG	17:O3:247:TRP:CD1	2.79	0.66
11:I2:846:ILE:CG2	17:O3:247:TRP:HZ2	2.02	0.66
11:I2:882:LYS:HB2	17:O3:249:ARG:H	1.60	0.66
11:I2:951:LYS:CD	16:N3:402:GLY:C	2.69	0.66
11:I2:957:SER:HB3	20:R3:167:GLN:O	1.95	0.66
11:I2:958:THR:HB	16:N3:399:HIS:CB	2.26	0.66
11:I2:960:SER:O	20:R3:165:SER:HB2	1.95	0.66
11:I2:977:ASN:CB	20:R3:146:LEU:O	2.44	0.66
11:I2:1017:VAL:CA	16:N3:409:ALA:O	2.43	0.66
11:I2:1045:PHE:CB	15:M3:619:ILE:CD1	2.74	0.66
22:T1:825:ASP:CB	31:c5:23:ARG:HD3	2.17	0.66
23:U1:34:ASP:C	31:c2:560:ASN:ND2	2.49	0.66
23:U2:397:ASP:HB3	31:c4:533:ASP:O	1.78	0.66
23:U2:405:GLU:CB	31:c4:544:VAL:HG23	2.13	0.66
23:U2:437:ASN:H	31:c4:195:ILE:HD12	1.61	0.66
24:V1:152:ALA:HB1	24:V1:160:LEU:HD11	1.78	0.66
24:V3:152:ALA:HB1	24:V3:160:LEU:HD11	1.78	0.66
26:X2:361:LEU:N	34:i:423:LYS:HG3	2.11	0.66
28:Z1:411:LEU:HG	30:b1:251:ILE:CG1	2.25	0.66
28:Z2:335:VAL:HG13	28:Z2:352:ILE:HB	1.77	0.66
28:Z2:555:LYS:HD2	30:b2:233:TRP:CE3	2.31	0.66
28:Z3:521:SER:OG	30:b3:238:ASN:CA	2.43	0.66
28:Z3:525:LEU:C	30:b3:208:ASN:CG	2.60	0.66
28:Z4:561:GLN:CD	30:b4:237:LEU:H	2.04	0.66
31:c3:609:VAL:HG12	31:c3:613:LEU:HG	1.77	0.66
2:A2:1136:LYS:HG3	3:A5:138:LEU:CA	2.25	0.66
1:A3:1017:THR:CG2	6:D3:819:ASN:CB	2.23	0.66
1:A3:1162:ASN:HB3	3:A6:645:PHE:O	1.95	0.66
1:A3:1163:TYR:CG	3:A6:648:TYR:HA	2.26	0.66
1:A3:1189:LEU:CB	3:A6:641:ALA:HB1	2.23	0.66
1:A3:1237:LEU:HD22	3:A6:597:GLU:OE2	1.96	0.66
1:A3:1250:PRO:C	3:A6:635:ARG:N	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:89:LEU:HD22	3:A6:429:LEU:HD13	1.78	0.66
2:A4:672:ARG:HG2	3:A6:96:PRO:CG	0.31	0.66
2:A4:720:LEU:CD1	3:A6:494:PRO:CA	2.64	0.66
2:A4:795:GLN:C	3:A6:249:SER:CB	2.66	0.66
2:A4:871:ASN:O	6:D3:568:ARG:N	2.20	0.66
2:A4:880:ALA:HB2	6:D3:558:LYS:CD	2.26	0.66
3:A5:1098:ARG:HE	11:I5:29:GLN:CG	2.00	0.66
3:A6:1400:SER:HB3	28:Z4:961:PHE:CB	2.26	0.66
9:G1:255:LEU:HD13	17:O2:258:GLU:H	1.59	0.66
11:I1:1065:SER:HB3	16:N1:431:VAL:HG23	1.77	0.66
11:I1:1611:PHE:CZ	11:I2:1669:ARG:NH1	2.64	0.66
11:I1:1669:ARG:N	11:I2:1664:PHE:CE1	2.59	0.66
11:I1:1738:TYR:OH	11:I2:1602:PHE:HB2	1.95	0.66
11:I2:847:THR:N	15:M3:594:LYS:CE	2.58	0.66
11:I2:873:ILE:CG2	17:O3:254:ARG:HG2	2.24	0.66
11:I2:966:TRP:CH2	20:R3:167:GLN:NE2	2.59	0.66
11:I3:1433:THR:CG2	12:J3:270:ARG:HD3	2.26	0.66
21:S1:1119:LEU:C	21:S1:1121:GLU:H	2.04	0.66
23:U2:68:TRP:CE2	31:c4:470:ARG:NH2	2.62	0.66
23:U2:394:ILE:HG23	31:c4:535:VAL:O	1.96	0.66
23:U2:397:ASP:CB	31:c4:551:LEU:HD22	2.26	0.66
24:V1:280:GLU:HG3	31:c1:28:LYS:HZ1	1.59	0.66
27:Y2:41:ASP:HA	29:a2:230:GLN:OE1	1.94	0.66
28:Z1:525:LEU:C	30:b1:208:ASN:OD1	2.38	0.66
28:Z4:535:ILE:CD1	30:b4:182:PRO:HG3	2.26	0.66
30:b2:53:SER:OG	30:b2:54:THR:N	2.29	0.66
33:h:276:THR:HG22	33:h:277:PHE:H	1.61	0.66
1:A1:868:GLN:O	6:D3:277:ASN:CA	2.44	0.66
1:A1:870:HIS:CA	6:D3:280:GLN:N	2.59	0.66
2:A2:982:THR:HG23	6:D1:496:LEU:C	2.12	0.66
1:A3:1230:TYR:HD1	3:A6:609:GLU:O	1.73	0.66
2:A4:720:LEU:CD1	3:A6:494:PRO:HB3	2.26	0.66
2:A4:826:ASN:OD1	3:A6:135:PHE:HE1	1.78	0.66
2:A4:864:ARG:N	6:D3:607:PRO:HD2	2.10	0.66
2:A4:867:GLU:CB	6:D3:605:THR:HB	2.26	0.66
2:A4:907:SER:C	6:D3:552:TYR:CZ	2.61	0.66
2:A4:955:CYS:H	4:B6:345:LYS:HA	1.59	0.66
2:A4:985:ALA:C	6:D3:500:LYS:HA	2.20	0.66
9:G1:263:MET:HB3	17:O2:260:LEU:HB2	1.78	0.66
11:I1:880:MET:N	17:O1:249:ARG:N	2.34	0.66
11:I1:955:LYS:CD	16:N1:401:THR:N	2.18	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:899:LEU:HD23	17:O3:235:ASN:ND2	2.10	0.66
11:I2:944:GLU:CB	17:O3:256:TYR:CE1	2.76	0.66
11:I2:966:TRP:C	20:R3:150:ASN:O	2.39	0.66
11:I2:968:PRO:HG2	20:R3:149:ARG:NH1	2.10	0.66
11:I2:982:GLN:H	15:M3:621:ARG:NH1	1.92	0.66
11:I2:1433:THR:CG2	12:J2:270:ARG:HD3	2.26	0.66
11:I3:777:SER:C	29:a2:40[A]:GLU:OE2	2.37	0.66
11:I4:1421:ARG:NH2	11:I4:1482:ASP:OD1	2.29	0.66
11:I4:1433:THR:CG2	12:J4:270:ARG:HD3	2.26	0.66
11:I5:1279:THR:CG2	26:X2:521:TRP:N	2.59	0.66
17:O4:111:TYR:OH	18:P4:321:ILE:HD13	1.96	0.66
21:S2:1119:LEU:C	21:S2:1121:GLU:H	2.04	0.66
21:S3:678:GLU:CA	21:S4:1141:GLU:C	2.69	0.66
21:S3:1119:LEU:C	21:S3:1121:GLU:H	2.04	0.66
22:T1:751:ARG:NH1	31:c5:59:ASP:CG	2.53	0.66
22:T1:819:ASN:CG	31:c5:57:GLU:HG3	2.21	0.66
23:U2:14:LYS:C	31:c4:478:SER:HB2	2.19	0.66
23:U2:395:CYS:CB	31:c4:552:ARG:C	2.69	0.66
23:U2:407:VAL:C	31:c4:542:LYS:CB	2.68	0.66
28:Z2:410:ASN:HB3	30:b2:251:ILE:CD1	2.18	0.66
28:Z3:523:ASP:OD1	30:b3:238:ASN:OD1	2.12	0.66
28:Z4:525:LEU:C	30:b4:208:ASN:OD1	2.38	0.66
30:b1:21:TRP:CD1	30:b1:364:CYS:HG	2.14	0.66
1:A1:1225:PRO:O	2:A2:728:LYS:N	2.28	0.66
2:A2:873:PRO:HD3	6:D1:568:ARG:HE	1.54	0.66
2:A2:1135:ARG:HA	3:A5:147:LEU:CG	2.25	0.66
2:A2:1137:ALA:HB1	3:A5:564:ASN:ND2	2.11	0.66
2:A2:1151:THR:HA	5:C2:733:LEU:HD13	1.70	0.66
1:A3:1124:ARG:NH2	3:A6:599:ARG:N	2.24	0.66
1:A3:1232:SER:HB2	3:A6:574:ARG:C	2.21	0.66
1:A3:1257:VAL:HA	3:A6:719:ARG:NH2	2.11	0.66
2:A4:85:VAL:CG1	3:A6:394:LEU:C	2.69	0.66
2:A4:227:SER:HB3	6:D3:709:ARG:C	2.20	0.66
2:A4:611:ILE:HG21	3:A6:508:LEU:HD12	1.60	0.66
2:A4:635:ARG:NH2	3:A6:602:ILE:N	2.44	0.66
2:A4:642:ARG:CD	3:A6:604:GLN:O	2.31	0.66
2:A4:691:LYS:HG2	3:A6:378:ILE:O	1.96	0.66
2:A4:777:LEU:CD2	3:A6:526:ILE:HG12	2.25	0.66
2:A4:858:ALA:C	6:D3:606:LYS:HE3	2.19	0.66
2:A4:917:LEU:HD11	3:A6:175:GLU:OE1	1.96	0.66
2:A4:955:CYS:SG	4:B6:345:LYS:HB2	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:989:MSE:HE1	6:D3:240:ASP:OD2	1.95	0.66
3:A5:919:LEU:HB3	11:I5:61:LYS:HZ1	1.61	0.66
3:A5:999:SER:HA	11:I5:63:PRO:N	2.11	0.66
3:A5:1369:ILE:CG1	28:Z2:832:PHE:N	2.55	0.66
3:A6:1392:ARG:HB2	28:Z4:910:GLN:N	1.81	0.66
3:A6:1398:LYS:CD	28:Z4:921:THR:CB	2.74	0.66
8:F2:1137:GLN:CB	17:O4:251:ILE:CD1	2.29	0.66
9:G1:250:THR:CB	15:M2:605:THR:HG22	2.26	0.66
9:G1:263:MET:CG	17:O2:260:LEU:HD22	2.26	0.66
9:G2:257:THR:HG23	17:O4:257:ALA:N	2.10	0.66
11:I1:1018:LYS:CE	16:N1:413:VAL:C	2.30	0.66
11:I2:966:TRP:C	20:R3:153:GLN:CG	2.69	0.66
11:I2:1029:LEU:HD13	16:N3:433:GLU:HG3	1.72	0.66
11:I2:1041:GLN:NE2	15:M3:614:ASP:OD2	2.29	0.66
11:I4:357:ASP:OD1	11:I4:360:ARG:NH2	2.28	0.66
11:I4:1276:GLN:CG	26:X3:521:TRP:H	2.09	0.66
11:I4:1584:LEU:HD21	12:J4:275:PHE:CD1	2.30	0.66
11:I5:1421:ARG:NH2	11:I5:1482:ASP:OD1	2.29	0.66
23:U1:172:LYS:CB	31:c1:506:HIS:CA	2.74	0.66
28:Z2:554:PHE:CE2	30:b2:233:TRP:C	2.73	0.66
28:Z2:561:GLN:CD	30:b2:237:LEU:H	2.04	0.66
30:b1:53:SER:OG	30:b1:54:THR:N	2.29	0.66
2:A2:868:GLN:CB	6:D1:570:VAL:HG11	2.13	0.66
2:A2:984:ALA:HB2	6:D1:553:PHE:CE2	2.31	0.66
2:A2:1138:GLU:HB3	3:A5:147:LEU:HD11	1.74	0.66
2:A2:1144:ASP:O	3:A5:129:ASN:ND2	2.29	0.66
1:A3:1017:THR:CG2	6:D3:819:ASN:CG	2.69	0.66
1:A3:1021:LEU:CG	6:D3:816:VAL:O	2.44	0.66
1:A3:1224:PRO:N	3:A6:496:THR:O	2.28	0.66
1:A3:1301:ASP:OD2	1:A3:1361:ARG:NH1	2.29	0.66
2:A4:889:VAL:HG23	3:A6:175:GLU:H	1.61	0.66
3:A5:1029:ILE:N	11:I5:67:LYS:O	2.21	0.66
3:A5:1411:ARG:HH21	26:X2:743:PHE:C	2.04	0.66
4:B5:344:ALA:HB1	5:C2:737:LYS:CB	2.25	0.66
11:I1:842:ASN:O	15:M1:591:ASP:HB2	1.96	0.66
11:I1:980:ILE:O	15:M1:618:GLN:CA	2.42	0.66
11:I1:991:THR:HB	15:M1:610:SER:C	2.15	0.66
11:I1:1049:LEU:N	15:M1:622:VAL:HG11	2.11	0.66
11:I1:1065:SER:C	16:N1:430:ARG:HG2	2.12	0.66
11:I2:1021:ILE:HG13	16:N3:410:MET:HE3	1.72	0.66
21:S2:313:ASN:O	21:S2:317:LYS:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:19:LEU:HB2	31:c2:470:ARG:CG	2.16	0.66
23:U2:15:PHE:HD2	31:c4:477:GLU:C	2.02	0.66
23:U2:24:ILE:HD11	31:c4:457:LEU:CD1	2.26	0.66
23:U2:434:THR:CG2	31:c4:532:TRP:HZ2	2.06	0.66
24:V2:631:GLN:N	31:c2:85:ARG:NH2	2.43	0.66
26:X2:208:LEU:CD2	34:i:445:GLN:CA	2.71	0.66
26:X2:280:VAL:CG2	34:i:14:TRP:HE1	2.07	0.66
26:X2:365:ILE:HG23	34:i:323:ILE:CD1	2.23	0.66
28:Z1:521:SER:OG	30:b1:238:ASN:CA	2.43	0.66
28:Z3:438:GLU:HB2	30:b3:333:HIS:HE1	1.61	0.66
28:Z4:335:VAL:HG13	28:Z4:352:ILE:HB	1.77	0.66
30:b1:110:THR:HG22	30:b1:128:GLY:HA3	1.78	0.66
30:b3:117:LYS:HG2	30:b3:122:ILE:HD13	1.78	0.66
1:A1:875:LEU:HD13	6:D3:277:ASN:HB2	1.78	0.65
1:A1:1301:ASP:OD2	1:A1:1361:ARG:NH1	2.29	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:CZ	2.07	0.65
2:A2:1055:ARG:N	6:D2:762:ARG:HA	2.11	0.65
2:A2:1121:LEU:O	3:A5:132:ASP:C	2.39	0.65
2:A2:1160:GLN:CG	3:A5:165:PHE:HA	2.25	0.65
1:A3:1182:ILE:HG22	3:A6:639:ASN:HD22	1.60	0.65
1:A3:1193:SER:O	3:A6:609:GLU:O	2.14	0.65
1:A3:1238:ILE:HG21	3:A6:640:LEU:CD1	2.26	0.65
1:A3:1278:PRO:CG	3:A6:624:ASP:CG	2.52	0.65
1:A3:1282:PHE:HD1	3:A6:625:LEU:HB2	1.61	0.65
2:A4:544:PHE:CA	3:A6:362:PHE:O	2.39	0.65
2:A4:553:ASP:OD1	3:A6:434:PHE:C	2.38	0.65
2:A4:613:ALA:O	3:A6:511:PHE:CZ	2.49	0.65
2:A4:951:GLU:OE2	3:A6:234:LEU:N	2.29	0.65
2:A4:983:LEU:CD1	6:D3:497:PHE:CE2	2.79	0.65
3:A6:1393:THR:HG22	28:Z4:913:ILE:C	2.21	0.65
3:A6:1403:MSE:CG	26:X4:742:ALA:CA	2.43	0.65
8:F1:1137:GLN:H	17:O2:245:GLU:HA	1.61	0.65
11:I1:895:ARG:CZ	17:O1:233:THR:HG22	2.26	0.65
11:I1:955:LYS:HE2	16:N1:396:ILE:C	2.21	0.65
11:I1:1030:ARG:N	20:R1:172:ASP:C	2.52	0.65
11:I1:1046:HIS:ND1	17:O1:284:LYS:N	2.26	0.65
11:I2:270:TRP:NE1	11:I2:272:LYS:O	2.29	0.65
11:I2:914:ASN:O	15:M3:588:MET:CA	2.44	0.65
11:I2:950:LEU:CB	16:N3:406:HIS:HD2	2.07	0.65
11:I2:953:LEU:CD2	15:M3:603:SER:OG	2.15	0.65
11:I2:977:ASN:ND2	15:M3:621:ARG:HB3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1421:ARG:NH2	11:I3:1482:ASP:OD1	2.29	0.65
11:I5:270:TRP:NE1	11:I5:272:LYS:O	2.29	0.65
17:O3:147:ALA:CA	18:P3:328:PRO:HB2	2.26	0.65
21:S1:652:VAL:HA	21:S2:1156:ILE:HA	1.78	0.65
22:T1:819:ASN:CB	31:c5:57:GLU:CD	2.68	0.65
23:U1:141:THR:OG1	31:c1:498:GLN:C	2.34	0.65
23:U2:242:LEU:HD22	24:V2:305:VAL:HG22	1.78	0.65
23:U2:432:TYR:H	31:c4:464:LEU:CB	1.98	0.65
23:U3:278:GLN:N	25:W4:192:GLN:HE22	1.94	0.65
24:V1:280:GLU:CG	31:c1:28:LYS:NZ	2.50	0.65
26:X2:148:MET:HE1	26:X2:182:LEU:HD22	1.78	0.65
26:X2:333:GLU:OE2	34:i:475:ILE:CG1	2.44	0.65
26:X2:360:PHE:O	34:i:420:TRP:CA	2.44	0.65
27:Y3:41:ASP:HA	29:a3:230:GLN:OE1	1.94	0.65
28:Z2:438:GLU:HB2	30:b2:333:HIS:HE1	1.62	0.65
28:Z2:524:VAL:HG12	30:b2:236:THR:CG2	2.12	0.65
30:b1:117:LYS:HG2	30:b1:122:ILE:HD13	1.78	0.65
31:c3:463:HIS:CE1	31:c5:702:GLU:C	1.97	0.65
33:h:126:MET:HE3	33:h:271:LEU:CD1	2.22	0.65
1:A1:1018:ASP:CG	6:D1:819:ASN:HB2	2.21	0.65
2:A2:871:ASN:N	6:D1:567:LEU:O	2.29	0.65
1:A3:773:PHE:HZ	1:A3:818:LEU:HD12	1.62	0.65
1:A3:1054:SER:OG	6:D3:810:ARG:CA	2.36	0.65
1:A3:1099:GLN:CB	11:I2:1414:CYS:O	2.44	0.65
1:A3:1182:ILE:HG21	3:A6:636:ASN:OD1	1.96	0.65
1:A3:1231:VAL:N	3:A6:575:LEU:C	2.46	0.65
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ1	1.51	0.65
1:A3:1311:ARG:NH2	3:A6:711:VAL:O	2.29	0.65
2:A4:647:GLU:HB2	3:A6:503:GLN:CB	2.26	0.65
2:A4:715:GLU:HG3	3:A6:515:THR:C	2.21	0.65
2:A4:779:ASP:CA	3:A6:487:ASP:H	2.09	0.65
2:A4:861:GLN:CB	6:D3:606:LYS:NZ	2.58	0.65
3:A5:146:LYS:NZ	5:C2:747:PRO:CG	2.55	0.65
3:A5:1050:TYR:OH	11:I5:70:GLU:CD	2.37	0.65
3:A5:1151:THR:OG1	5:C5:734:VAL:N	2.29	0.65
3:A5:1374:ALA:CA	28:Z2:823:ALA:HB1	2.26	0.65
8:F1:1094:GLY:C	17:O2:237:PRO:CA	2.68	0.65
11:I1:270:TRP:NE1	11:I1:272:LYS:O	2.30	0.65
11:I1:878:GLN:HE21	17:O1:252:VAL:HG11	1.60	0.65
11:I1:889:THR:C	17:O1:239:GLN:NE2	2.54	0.65
11:I1:931:VAL:CB	15:M1:604:ASN:OD1	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:950:LEU:HD21	16:N1:406:HIS:CD2	2.20	0.65
11:I1:952:LEU:O	16:N1:400:LEU:CD2	2.41	0.65
11:I1:984:GLU:HG3	15:M1:617:THR:CG2	2.26	0.65
11:I1:1109:LEU:N	16:N1:440:GLU:C	2.34	0.65
11:I1:1670:GLY:CA	11:I2:1639:LEU:HD22	2.27	0.65
11:I2:947:LEU:HD13	17:O3:260:LEU:HD22	1.74	0.65
11:I2:1045:PHE:CA	17:O3:280:GLU:HA	2.25	0.65
11:I3:270:TRP:NE1	11:I3:272:LYS:O	2.30	0.65
11:I5:1433:THR:CG2	12:J5:270:ARG:HD3	2.26	0.65
17:O2:110:LEU:HD11	18:P2:321:ILE:HB	1.78	0.65
23:U4:242:LEU:HD22	24:V4:305:VAL:HG22	1.78	0.65
24:V2:682:ALA:CB	31:c2:50:CYS:O	2.43	0.65
26:X1:119:GLY:O	26:X1:122:ARG:HG2	1.97	0.65
26:X2:307:LYS:H	34:i:405:TYR:HD1	1.43	0.65
26:X2:360:PHE:CB	34:i:423:LYS:HG3	2.26	0.65
26:X2:369:GLU:HB3	34:i:428:LEU:CD2	2.21	0.65
28:Z1:561:GLN:CD	30:b1:237:LEU:H	2.04	0.65
28:Z2:55:GLU:HB2	28:Z2:74:SER:HA	1.78	0.65
28:Z2:555:LYS:CG	30:b2:213:ASP:N	2.59	0.65
28:Z3:555:LYS:HB3	30:b3:213:ASP:N	2.11	0.65
28:Z4:521:SER:OG	30:b4:238:ASN:CA	2.43	0.65
28:Z4:555:LYS:HB3	30:b4:213:ASP:N	2.11	0.65
29:a1:252[B]:MET:CG	29:a1:253:PRO:HD2	2.26	0.65
31:c4:609:VAL:HG12	31:c4:613:LEU:HG	1.77	0.65
1:A1:1220:PRO:O	2:A2:646:ILE:CA	2.44	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:HB2	1.62	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:HB3	1.46	0.65
2:A2:980:ARG:CB	6:D1:526:LEU:CB	2.70	0.65
1:A3:1248:ILE:CD1	3:A6:587:VAL:HG23	2.03	0.65
1:A3:1277:TRP:CB	3:A6:556:PRO:HG3	2.25	0.65
1:A3:1366:LEU:HD13	3:A6:226:PRO:O	1.95	0.65
2:A4:87:GLN:O	3:A6:430:GLN:HG3	1.96	0.65
2:A4:692:VAL:O	3:A6:466:ALA:C	2.39	0.65
2:A4:720:LEU:C	3:A6:493:ALA:O	2.39	0.65
2:A4:727:ASN:ND2	3:A6:605:TYR:CA	2.57	0.65
2:A4:737:PRO:HA	3:A6:89:LEU:CB	2.21	0.65
2:A4:759:ALA:C	3:A6:388:GLU:CD	2.63	0.65
2:A4:763:LEU:CD1	3:A6:470:ARG:HD3	2.26	0.65
2:A4:805:LEU:CD1	3:A6:468:GLY:O	2.44	0.65
2:A4:813:GLU:CD	3:A6:191:LEU:H	2.03	0.65
2:A4:917:LEU:HG	4:B6:342:ARG:HD2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:947:LYS:NZ	3:A6:219:GLY:C	2.54	0.65
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CA	2.26	0.65
3:A5:1379:GLY:O	28:Z2:811:LEU:C	2.35	0.65
3:A6:1364:GLN:HG2	28:Z4:876:LEU:O	1.96	0.65
8:F1:1329:LYS:O	8:F1:1364:ASN:ND2	2.29	0.65
9:G1:263:MET:O	16:N2:411:GLN:CB	2.40	0.65
11:I1:1038:ILE:HG13	20:R1:167:GLN:CG	2.27	0.65
11:I1:1421:ARG:NH2	11:I1:1482:ASP:OD1	2.29	0.65
11:I2:954:GLU:HG3	20:R3:172:ASP:OD2	1.96	0.65
11:I2:1040:HIS:NE2	16:N3:437:VAL:CB	2.58	0.65
11:I4:270:TRP:NE1	11:I4:272:LYS:O	2.30	0.65
11:I4:813:ILE:HD12	26:X3:496:THR:HG21	0.68	0.65
11:I4:1280:PRO:HD3	26:X3:520:GLU:OE1	1.97	0.65
21:S4:313:ASN:O	21:S4:317:LYS:HB2	1.96	0.65
23:U1:172:LYS:CD	31:c1:506:HIS:CB	2.36	0.65
23:U2:39:ILE:N	31:c4:559:ILE:HG13	2.05	0.65
23:U2:397:ASP:CG	31:c4:537:THR:HG1	1.87	0.65
24:V1:209:PRO:HB3	24:V1:532:LYS:HB2	1.78	0.65
26:X2:119:GLY:O	26:X2:122:ARG:HG2	1.96	0.65
26:X2:280:VAL:CB	34:i:14:TRP:NE1	2.58	0.65
26:X2:310:VAL:HG12	34:i:401:CYS:HB3	1.79	0.65
26:X3:119:GLY:O	26:X3:122:ARG:HG2	1.96	0.65
27:Y1:221:ALA:HB2	27:Y1:312:TRP:CE2	2.31	0.65
28:Z1:555:LYS:HD2	30:b1:233:TRP:CE3	2.31	0.65
28:Z2:531:LYS:O	30:b2:182:PRO:HB2	1.96	0.65
28:Z4:523:ASP:OD1	30:b4:238:ASN:OD1	2.13	0.65
1:A1:1224:PRO:CA	2:A2:723:PHE:O	2.34	0.65
2:A2:864:ARG:HH21	6:D1:634:ASN:HB2	1.62	0.65
2:A2:871:ASN:HB2	6:D1:571:SER:HB2	1.78	0.65
1:A3:1231:VAL:HA	3:A6:613:ALA:CB	2.16	0.65
1:A3:1392:ARG:CZ	3:A6:231:SER:HB2	2.26	0.65
2:A4:824:ASN:ND2	3:A6:167:TRP:CZ3	2.65	0.65
2:A4:857:LYS:CE	3:A6:129:ASN:HB2	2.26	0.65
3:A6:842:ARG:CG	8:F2:776:HIS:HE1	2.08	0.65
3:A6:1411:ARG:CZ	26:X4:685:GLU:O	2.45	0.65
9:G2:257:THR:HG22	17:O4:258:GLU:N	2.06	0.65
11:I1:983:LEU:CD1	15:M1:621:ARG:NH2	2.46	0.65
11:I1:987:GLY:HA3	15:M1:611:LYS:HG2	0.71	0.65
11:I1:1038:ILE:HD12	20:R1:167:GLN:OE1	1.95	0.65
11:I1:1051:LYS:CE	17:O1:289:ASP:N	2.10	0.65
11:I1:1433:THR:CG2	12:J1:270:ARG:HD3	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:911:PRO:CA	15:M3:584:GLN:NE2	2.57	0.65
11:I2:954:GLU:H	16:N3:403:VAL:HG22	1.62	0.65
11:I2:979:ALA:HB2	20:R3:167:GLN:NE2	2.11	0.65
11:I2:1109:LEU:HB2	17:O3:290:TYR:HE2	0.51	0.65
11:I2:1421:ARG:NH2	11:I2:1482:ASP:OD1	2.29	0.65
11:I2:1584:LEU:HD21	12:J2:275:PHE:CD1	2.30	0.65
17:O4:110:LEU:HD22	18:P4:321:ILE:CB	2.17	0.65
21:S3:597:ILE:C	21:S4:1154:GLY:O	2.32	0.65
23:U1:434:THR:HA	31:c2:464:LEU:CD1	2.26	0.65
23:U2:78:VAL:C	31:c4:553:LEU:HD11	2.03	0.65
23:U2:398:ILE:HG12	31:c4:535:VAL:CG1	2.23	0.65
23:U2:432:TYR:O	31:c4:461:PHE:CD1	2.42	0.65
27:Y3:313:ASN:HB2	27:Y3:318:ILE:H	1.61	0.65
28:Z1:527:SER:HA	30:b1:204:GLU:CG	1.88	0.65
28:Z1:531:LYS:O	30:b1:182:PRO:HB2	1.96	0.65
28:Z1:561:GLN:NE2	30:b1:237:LEU:CD1	2.60	0.65
28:Z2:555:LYS:HB3	30:b2:213:ASP:N	2.11	0.65
28:Z2:561:GLN:CB	30:b2:235:LEU:C	2.61	0.65
28:Z3:438:GLU:CD	30:b3:314:PRO:HG2	2.22	0.65
28:Z4:555:LYS:HD2	30:b4:233:TRP:CE3	2.31	0.65
30:b3:53:SER:OG	30:b3:54:THR:N	2.29	0.65
31:c2:609:VAL:HG12	31:c2:613:LEU:HG	1.78	0.65
2:A2:969:ASP:CA	6:D1:196:ILE:N	2.33	0.65
1:A3:1048:ARG:HH21	6:D3:815:GLU:CD	2.02	0.65
1:A3:1226:LEU:HB3	3:A6:551:GLN:H	1.59	0.65
1:A3:1241:ARG:HB3	3:A6:586:CYS:SG	2.36	0.65
1:A3:1396:GLY:O	3:A6:172:PRO:HG2	1.97	0.65
2:A4:635:ARG:HH22	3:A6:601:PHE:N	1.93	0.65
2:A4:682:ARG:NE	3:A6:105:GLY:O	2.30	0.65
2:A4:701:ILE:HD11	3:A6:479:VAL:O	1.97	0.65
2:A4:720:LEU:O	3:A6:496:THR:N	2.29	0.65
2:A4:763:LEU:CD1	3:A6:470:ARG:CG	2.75	0.65
2:A4:764:MET:CG	3:A6:473:PRO:O	2.41	0.65
2:A4:800:LEU:HD22	3:A6:319:TYR:HH	1.61	0.65
2:A4:854:VAL:CB	3:A6:171:HIS:CG	2.72	0.65
2:A4:872:ALA:HB3	6:D3:565:MET:HE1	1.78	0.65
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD13	1.77	0.65
3:A5:220:VAL:CG1	5:C2:738:ASP:C	2.69	0.65
3:A5:773:PHE:HZ	3:A5:818:LEU:HD12	1.61	0.65
3:A5:1409:MSE:HB2	28:Z2:917:ASP:CB	2.26	0.65
11:I1:843:GLU:CG	15:M1:587:GLU:OE1	2.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:928:LEU:HD11	20:R1:155:GLU:CB	2.26	0.65
11:I1:1032:THR:CA	20:R1:176:ARG:C	2.69	0.65
11:I1:1034:ASP:HB3	16:N1:444:SER:HB2	1.79	0.65
11:I1:1055:GLU:CD	17:O1:280:GLU:HG3	2.22	0.65
11:I2:841:PHE:CA	15:M3:591:ASP:HB3	2.26	0.65
11:I2:935:GLY:C	15:M3:609:GLY:HA3	2.21	0.65
21:S1:251:MET:HG3	21:S1:272:LEU:HB2	1.78	0.65
21:S3:313:ASN:O	21:S3:317:LYS:HB2	1.96	0.65
23:U1:397:ASP:OD1	31:c2:548:VAL:C	2.38	0.65
23:U1:397:ASP:OD1	31:c2:549:ALA:HA	1.95	0.65
23:U2:39:ILE:CD1	31:c4:557:HIS:H	2.09	0.65
25:W1:180:ASN:HA	25:W1:207:VAL:HG23	1.79	0.65
25:W3:180:ASN:HA	25:W3:207:VAL:HG23	1.79	0.65
26:X2:336:LEU:HD22	34:i:478:PRO:HG3	1.77	0.65
28:Z1:535:ILE:CD1	30:b1:182:PRO:HG3	2.25	0.65
28:Z3:411:LEU:HG	30:b3:251:ILE:CG1	2.25	0.65
28:Z3:531:LYS:O	30:b3:182:PRO:HB2	1.96	0.65
29:a2:252[B]:MET:CG	29:a2:253:PRO:HD2	2.26	0.65
30:b1:339:ILE:HB	30:b1:354:ILE:HB	1.79	0.65
30:b3:339:ILE:HB	30:b3:354:ILE:HB	1.79	0.65
30:b4:110:THR:HG22	30:b4:128:GLY:HA3	1.78	0.65
1:A1:1226:LEU:CG	2:A2:725:GLU:OE1	2.37	0.65
1:A1:1392:ARG:C	2:A2:851:ASP:OD1	2.40	0.65
2:A2:874:VAL:CB	6:D1:611:LYS:HG2	2.27	0.65
1:A3:1048:ARG:NE	6:D3:790:ARG:HH22	1.90	0.65
1:A3:1113:GLU:HG2	3:A6:590:SER:H	1.62	0.65
1:A3:1185:THR:C	3:A6:639:ASN:O	2.40	0.65
1:A3:1201:ARG:HB3	3:A6:92:ASP:CG	2.21	0.65
1:A3:1257:VAL:HA	3:A6:719:ARG:HH12	1.60	0.65
2:A4:816:LYS:CG	3:A6:157:TRP:CD1	2.78	0.65
2:A4:870:HIS:CE1	6:D3:566:PHE:CD1	2.76	0.65
2:A4:878:LEU:HD12	6:D3:567:LEU:HB3	1.78	0.65
3:A5:1392:ARG:NH1	28:Z2:863:ASP:O	2.29	0.65
3:A6:442:ARG:NH1	6:D3:695:LEU:HD12	2.11	0.65
3:A6:842:ARG:HE	8:F2:776:HIS:CE1	2.11	0.65
11:I1:879:VAL:CA	17:O1:245:GLU:O	2.37	0.65
11:I1:951:LYS:CA	16:N1:400:LEU:O	2.44	0.65
11:I1:957:SER:HG	16:N1:399:HIS:CD2	2.14	0.65
11:I2:828:VAL:HG12	17:O3:237:PRO:HD2	1.78	0.65
11:I2:877:ILE:HD13	17:O3:253:LEU:O	1.97	0.65
11:I2:928:LEU:HD21	20:R3:155:GLU:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:980:ILE:HG21	15:M3:622:VAL:HG23	1.78	0.65
11:I2:1607:GLN:CB	12:J1:298:PHE:CE1	2.77	0.65
23:U2:404:VAL:HG11	31:c4:543:ALA:HB1	0.69	0.65
23:U3:20:LYS:O	23:U3:24:ILE:HG12	1.97	0.65
24:V2:152:ALA:HB1	24:V2:160:LEU:HD11	1.78	0.65
27:Y1:313:ASN:HB2	27:Y1:318:ILE:H	1.61	0.65
28:Z1:438:GLU:CD	30:b1:314:PRO:HG2	2.21	0.65
28:Z1:555:LYS:HB3	30:b1:213:ASP:N	2.11	0.65
28:Z2:438:GLU:CD	30:b2:314:PRO:HG2	2.21	0.65
28:Z2:524:VAL:CB	30:b2:236:THR:CG2	2.32	0.65
28:Z2:553:ILE:HD11	30:b2:182:PRO:HG2	1.79	0.65
28:Z2:555:LYS:HD2	30:b2:233:TRP:CZ3	2.32	0.65
28:Z3:63:SER:OG	28:Z3:112:GLU:OE1	2.15	0.65
28:Z3:527:SER:CA	30:b3:204:GLU:OE1	2.12	0.65
30:b3:110:THR:HG22	30:b3:128:GLY:HA3	1.79	0.65
31:c4:331:ILE:HG23	31:c4:340:GLN:HB2	1.79	0.65
1:A1:870:HIS:CB	6:D3:280:GLN:CA	2.61	0.65
1:A1:1204:TRP:HH2	2:A2:757:LEU:CD2	1.88	0.65
2:A2:873:PRO:C	6:D1:563:GLU:HB3	2.18	0.65
2:A2:943:ASP:OD2	3:A5:589:ALA:HB2	1.97	0.65
2:A2:986:THR:HG22	6:D1:504:LYS:CE	2.25	0.65
2:A2:1160:GLN:HA	3:A5:178:GLY:HA3	1.78	0.65
1:A3:1265:ASN:N	3:A6:716:ASN:ND2	2.44	0.65
2:A4:496:THR:OG1	3:A6:366:ALA:HB1	1.97	0.65
2:A4:607:ARG:HG2	3:A6:505:ALA:CB	2.26	0.65
2:A4:827:ILE:CA	3:A6:132:ASP:CA	2.71	0.65
2:A4:859:GLN:HB3	3:A6:134:VAL:HB	1.77	0.65
3:A5:1004:HIS:HE1	11:I5:62:GLU:H	1.43	0.65
8:F1:1091:SER:HB3	17:O2:241:SER:C	2.19	0.65
11:I1:880:MET:HE3	17:O1:247:TRP:HE3	1.61	0.65
11:I1:919:ALA:CA	15:M1:592:LEU:HD22	2.27	0.65
11:I1:950:LEU:HB3	16:N1:406:HIS:CB	2.27	0.65
11:I1:1034:ASP:HB3	16:N1:444:SER:CB	2.27	0.65
11:I3:1277:LEU:N	26:X1:522:MET:CB	2.45	0.65
23:U2:430:PRO:CA	31:c4:462:HIS:CA	2.75	0.65
23:U2:432:TYR:CE1	31:c4:464:LEU:CA	2.73	0.65
23:U3:242:LEU:HD22	24:V3:305:VAL:HG22	1.78	0.65
26:X2:360:PHE:HB2	34:i:423:LYS:HG2	1.78	0.65
28:Z2:535:ILE:CD1	30:b2:182:PRO:HG3	2.26	0.65
28:Z3:55:GLU:HB2	28:Z3:74:SER:HA	1.78	0.65
28:Z3:525:LEU:C	30:b3:208:ASN:OD1	2.38	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:551:THR:CG2	30:b3:233:TRP:HZ3	1.52	0.65
28:Z3:555:LYS:HD2	30:b3:233:TRP:CE3	2.31	0.65
28:Z3:561:GLN:CD	30:b3:237:LEU:H	2.04	0.65
28:Z4:555:LYS:CG	30:b4:213:ASP:N	2.59	0.65
28:Z4:555:LYS:HD2	30:b4:233:TRP:CZ3	2.32	0.65
29:a3:252[B]:MET:CG	29:a3:253:PRO:HD2	2.26	0.65
30:b2:117:LYS:HG2	30:b2:122:ILE:HD13	1.78	0.65
31:c1:609:VAL:HG12	31:c1:613:LEU:HG	1.77	0.65
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD13	1.77	0.65
1:A3:1162:ASN:HD21	3:A6:732:GLN:CD	2.05	0.65
1:A3:1228:TYR:C	3:A6:574:ARG:CB	2.70	0.65
1:A3:1236:GLN:HA	3:A6:581:LYS:CG	2.27	0.65
1:A3:1271:ILE:H	3:A6:554:GLN:N	1.95	0.65
1:A3:1306:PRO:CB	3:A6:715:GLU:CG	2.74	0.65
2:A4:723:PHE:N	3:A6:495:ASP:HA	2.10	0.65
2:A4:757:LEU:O	3:A6:544:PHE:CD2	2.49	0.65
2:A4:876:ARG:HG3	6:D3:557:GLU:O	1.95	0.65
3:A5:1151:THR:HG23	5:C5:734:VAL:O	1.97	0.65
3:A5:1376:LEU:HD13	28:Z2:807:ILE:O	1.96	0.65
3:A5:1394:VAL:C	28:Z2:874:ASN:N	2.55	0.65
3:A5:1395:LYS:HG2	28:Z2:873:LEU:H	0.67	0.65
3:A6:1365:VAL:CA	28:Z4:878:HIS:CA	2.59	0.65
3:A6:1367:THR:CG2	28:Z4:872:TYR:C	2.68	0.65
11:I1:1029:LEU:CB	20:R1:174:ARG:CB	2.47	0.65
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CA	2.26	0.65
11:I2:899:LEU:HD11	17:O3:234:LEU:N	2.10	0.65
11:I2:1025:LEU:CD2	20:R3:170:LEU:HD12	2.27	0.65
11:I2:1029:LEU:HB3	20:R3:174:ARG:CD	2.27	0.65
11:I2:1039:ALA:O	20:R3:170:LEU:HD11	1.97	0.65
11:I2:1051:LYS:NZ	17:O3:285:LYS:NZ	2.44	0.65
11:I3:1277:LEU:CB	26:X1:522:MET:HB2	2.26	0.65
17:O3:151:LEU:CD2	18:P3:325:ILE:HG12	0.92	0.65
23:U1:396:LEU:N	31:c2:552:ARG:NH2	2.45	0.65
23:U2:20:LYS:O	23:U2:24:ILE:HG12	1.97	0.65
23:U2:24:ILE:HG13	31:c4:482:LEU:O	1.97	0.65
24:V2:209:PRO:HB3	24:V2:532:LYS:HB2	1.78	0.65
26:X2:204:PHE:CZ	34:i:444:GLU:HG3	2.32	0.65
28:Z4:524:VAL:C	30:b4:236:THR:CG2	2.70	0.65
30:b2:110:THR:HG22	30:b2:128:GLY:HA3	1.78	0.65
30:b4:339:ILE:HB	30:b4:354:ILE:HB	1.79	0.65
1:A1:1221:ILE:HG22	2:A2:645:PHE:H	0.52	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1201:ARG:NH2	3:A6:546:ASN:O	2.07	0.65
1:A3:1226:LEU:CD2	3:A6:549:ALA:N	2.60	0.65
1:A3:1236:GLN:HE22	3:A6:573:ARG:NE	1.93	0.65
1:A3:1310:ARG:NH1	3:A6:708:SER:HB3	2.11	0.65
2:A4:75:LEU:CG	3:A6:321:ASP:OD1	2.44	0.65
2:A4:611:ILE:CB	3:A6:508:LEU:CD1	2.57	0.65
2:A4:763:LEU:CG	3:A6:470:ARG:CG	2.53	0.65
2:A4:796:GLN:HB2	3:A6:249:SER:HB3	1.77	0.65
2:A4:818:LEU:HD21	3:A6:146:LYS:HZ1	1.62	0.65
2:A4:954:ILE:CB	4:B6:345:LYS:C	2.67	0.65
3:A5:1310:ARG:HE	28:Z2:827:GLN:C	2.05	0.65
3:A6:132:ASP:HB3	6:D3:606:LYS:N	2.08	0.65
3:A6:486:GLN:HB3	6:D3:675:ARG:CG	2.24	0.65
6:D5:236:THR:HA	31:c3:477:GLU:CG	2.25	0.65
8:F1:1202:TYR:HA	17:O2:252:VAL:HG13	1.79	0.65
11:I1:942:HIS:N	17:O1:260:LEU:CA	2.59	0.65
11:I1:949:CYS:C	16:N1:403:VAL:HG12	2.21	0.65
11:I1:1038:ILE:CD1	20:R1:167:GLN:CD	2.69	0.65
11:I1:1048:GLU:O	15:M1:626:HIS:CE1	2.49	0.65
11:I1:1107:SER:O	16:N1:439:ARG:HG3	1.97	0.65
11:I2:950:LEU:CD1	16:N3:410:MET:HE3	2.27	0.65
11:I2:1051:LYS:HE3	17:O3:288:GLU:HB2	1.79	0.65
11:I4:816:ASP:OD2	26:X3:497:ARG:NH1	2.24	0.65
11:I5:1277:LEU:HD23	26:X2:517:ASP:HB2	1.79	0.65
23:U2:38:ILE:C	31:c4:559:ILE:CG2	2.52	0.65
23:U2:39:ILE:O	31:c4:474:ASN:CA	2.44	0.65
23:U2:407:VAL:C	31:c4:542:LYS:CG	2.67	0.65
23:U4:20:LYS:O	23:U4:24:ILE:HG12	1.97	0.65
24:V2:682:ALA:CB	31:c2:51:THR:O	2.45	0.65
24:V4:152:ALA:HB1	24:V4:160:LEU:HD11	1.78	0.65
26:X2:304:ARG:HG3	34:i:323:ILE:HG22	1.79	0.65
26:X2:333:GLU:HA	34:i:475:ILE:O	1.96	0.65
27:Y4:41:ASP:HA	29:a4:230:GLN:OE1	1.94	0.65
27:Y4:313:ASN:HB2	27:Y4:318:ILE:H	1.61	0.65
28:Z1:555:LYS:HD2	30:b1:233:TRP:CZ3	2.32	0.65
28:Z2:524:VAL:C	30:b2:236:THR:CG2	2.70	0.65
28:Z4:55:GLU:HB2	28:Z4:74:SER:HA	1.78	0.65
28:Z4:438:GLU:CD	30:b4:314:PRO:HG2	2.21	0.65
28:Z4:527:SER:CB	30:b4:204:GLU:HG3	2.23	0.65
30:b2:339:ILE:HB	30:b2:354:ILE:HB	1.79	0.65
1:A1:1070:ASP:OD2	11:I1:1238:LYS:C	2.39	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:983:LEU:HG	6:D1:554:LEU:HD23	1.79	0.65
2:A2:985:ALA:CA	6:D1:498:GLU:HA	2.27	0.65
1:A3:1243:SER:H	3:A6:585:ASN:HA	1.62	0.65
1:A3:1394:VAL:CG2	3:A6:227:SER:HA	2.25	0.65
2:A4:546:ASN:HD22	3:A6:365:MET:HG2	1.61	0.65
2:A4:682:ARG:CG	3:A6:106:ALA:HA	2.27	0.65
2:A4:691:LYS:HD3	3:A6:316:ARG:HD3	1.59	0.65
2:A4:718:GLU:O	3:A6:513:GLN:CB	2.41	0.65
2:A4:827:ILE:HB	3:A6:130:ILE:HG22	1.79	0.65
2:A4:859:GLN:N	6:D3:606:LYS:HE2	2.04	0.65
3:A5:232:LEU:HD23	5:C2:738:ASP:H	1.60	0.65
8:F2:1091:SER:O	17:O4:244:GLU:OE1	2.15	0.65
11:I1:797:LEU:HD12	17:O1:245:GLU:HA	1.77	0.65
11:I1:1113:LEU:CB	16:N1:435:ALA:HB2	2.25	0.65
11:I1:1673:VAL:H	11:I2:1611:PHE:CA	2.05	0.65
11:I2:877:ILE:HG12	17:O3:254:ARG:CB	1.13	0.65
11:I3:1277:LEU:HD12	26:X1:522:MET:CG	2.19	0.65
21:S2:251:MET:HG3	21:S2:272:LEU:HB2	1.78	0.65
22:T1:741:ASP:OD1	31:c5:24:GLN:CG	2.43	0.65
23:U1:18:THR:C	31:c2:472:GLU:N	2.53	0.65
23:U1:242:LEU:HD22	24:V1:305:VAL:HG22	1.78	0.65
23:U1:410:SER:OG	31:c2:541:ARG:NH2	2.30	0.65
26:X3:148:MET:HE1	26:X3:182:LEU:HD22	1.78	0.65
27:Y3:221:ALA:HB2	27:Y3:312:TRP:CE2	2.31	0.65
28:Z3:410:ASN:HB3	30:b3:251:ILE:CD1	2.18	0.65
28:Z3:524:VAL:C	30:b3:236:THR:CG2	2.70	0.65
28:Z4:555:LYS:HE2	30:b4:213:ASP:HB3	1.79	0.65
1:A1:1200:ARG:HH21	2:A2:642:ARG:NH2	1.94	0.64
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ3	1.60	0.64
1:A3:1182:ILE:CG2	3:A6:639:ASN:HD22	2.10	0.64
1:A3:1194:HIS:ND1	3:A6:552:PHE:CZ	2.65	0.64
2:A4:760:LEU:HD13	3:A6:388:GLU:HG2	0.65	0.64
2:A4:760:LEU:HD21	3:A6:98:LEU:H	1.61	0.64
2:A4:782:VAL:HG23	6:D3:677:GLN:CA	2.24	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:HB2	1.74	0.64
2:A4:886:PHE:CE1	3:A6:176:LEU:CB	2.81	0.64
2:A4:892:SER:HA	3:A6:232:LEU:CA	2.27	0.64
2:A4:901:ALA:CB	3:A6:176:LEU:HB2	2.25	0.64
2:A4:972:GLY:N	6:D3:204:ASN:OD1	2.25	0.64
2:A4:980:ARG:HD2	6:D3:526:LEU:N	2.12	0.64
2:A4:982:THR:HG21	6:D3:495:VAL:N	2.03	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:988:ARG:HH22	6:D3:498:GLU:C	2.05	0.64
3:A5:1026:PRO:HB3	11:I5:73:TYR:HE1	1.57	0.64
3:A5:1395:LYS:CA	28:Z2:874:ASN:N	2.59	0.64
3:A6:445:THR:O	6:D3:730:ARG:HD3	1.96	0.64
3:A6:481:ARG:HG3	6:D3:675:ARG:O	1.97	0.64
3:A6:1364:GLN:O	28:Z4:874:ASN:O	2.16	0.64
6:D3:450:GLU:O	6:D3:454:THR:HG22	1.97	0.64
9:G1:258:LYS:NZ	16:N2:408:MET:CE	2.60	0.64
11:I1:875:ARG:O	17:O1:248:SER:HA	1.96	0.64
11:I1:925:LEU:CB	20:R1:164:PRO:C	2.57	0.64
11:I1:926:SER:H	15:M1:593:ALA:HB1	1.61	0.64
11:I1:957:SER:HA	20:R1:166:LEU:CD1	2.27	0.64
11:I2:895:ARG:CD	17:O3:234:LEU:HD12	2.25	0.64
11:I2:895:ARG:NE	16:N3:386:MET:SD	2.52	0.64
11:I2:994:ALA:HB3	17:O3:268:GLY:O	1.97	0.64
11:I2:1043:LEU:N	15:M3:616:LEU:HD13	2.11	0.64
11:I4:1276:GLN:H	26:X3:521:TRP:N	1.95	0.64
17:O4:109:PRO:HD2	18:P4:318:PRO:CB	2.28	0.64
21:S4:1119:LEU:C	21:S4:1121:GLU:H	2.04	0.64
23:U1:140:PRO:HA	31:c1:498:GLN:O	1.97	0.64
23:U1:394:ILE:HA	31:c2:552:ARG:HE	1.60	0.64
25:W3:227:GLN:HA	25:W3:256:VAL:HG13	1.80	0.64
26:X2:287:ASP:HB3	34:i:492:TRP:CB	2.18	0.64
26:X2:369:GLU:HG3	34:i:428:LEU:HD21	0.85	0.64
27:Y4:221:ALA:HB2	27:Y4:312:TRP:CE2	2.31	0.64
28:Z1:55:GLU:HB2	28:Z1:74:SER:HA	1.78	0.64
33:h:239:PHE:HB3	33:h:270:MET:HE2	1.79	0.64
1:A1:773:PHE:HZ	1:A1:818:LEU:HD12	1.62	0.64
1:A3:1099:GLN:HG3	11:I2:1414:CYS:SG	2.38	0.64
1:A3:1186:TRP:HH2	3:A6:583:LEU:HB2	1.60	0.64
1:A3:1229:VAL:CB	3:A6:574:ARG:HB3	2.25	0.64
1:A3:1236:GLN:HG2	3:A6:581:LYS:CG	2.28	0.64
1:A3:1332:ARG:NH2	6:D3:682:ASN:H	1.94	0.64
2:A4:635:ARG:NH2	3:A6:600:LYS:O	2.29	0.64
2:A4:779:ASP:HB2	3:A6:487:ASP:CB	2.20	0.64
2:A4:802:TYR:HH	3:A6:467:LEU:C	2.05	0.64
2:A4:803:GLU:OE2	3:A6:381:LEU:HB3	1.84	0.64
2:A4:828:ALA:HB2	3:A6:134:VAL:O	1.98	0.64
2:A4:861:GLN:CD	6:D3:607:PRO:CB	2.59	0.64
2:A4:875:LEU:HD12	6:D3:567:LEU:HG	1.78	0.64
3:A5:146:LYS:HB3	5:C2:745:SER:C	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D1:450:GLU:O	6:D1:454:THR:HG22	1.97	0.64
9:G1:256:GLN:HB2	16:N2:403:VAL:CG1	2.25	0.64
11:I1:1047:CYS:O	15:M1:619:ILE:HA	1.97	0.64
11:I1:1055:GLU:N	17:O1:281:ALA:N	2.36	0.64
11:I1:1605:LEU:CD1	11:I2:1669:ARG:CD	2.43	0.64
11:I1:1611:PHE:C	11:I2:1673:VAL:HA	2.21	0.64
11:I2:931:VAL:CA	15:M3:600:ASN:O	2.45	0.64
11:I2:995:SER:C	17:O3:267:ALA:HB3	2.21	0.64
11:I2:1041:GLN:NE2	15:M3:614:ASP:C	2.55	0.64
11:I3:1274:HIS:CD2	26:X1:534:ILE:HB	2.33	0.64
21:S1:950:HIS:ND1	21:S1:978:ALA:HB2	2.13	0.64
22:T1:741:ASP:C	31:c5:24:GLN:NE2	2.53	0.64
23:U2:412:LEU:CB	31:c4:541:ARG:HA	2.16	0.64
25:W4:180:ASN:HA	25:W4:207:VAL:HG23	1.79	0.64
26:X2:321:ALA:CA	34:i:84:ARG:CD	2.70	0.64
28:Z1:524:VAL:C	30:b1:236:THR:CG2	2.70	0.64
28:Z1:527:SER:CA	30:b1:204:GLU:OE1	2.12	0.64
28:Z2:401:THR:CB	30:b2:253:SER:O	2.25	0.64
28:Z3:555:LYS:HD2	30:b3:233:TRP:CZ3	2.32	0.64
28:Z4:553:ILE:HD11	30:b4:182:PRO:HG2	1.79	0.64
30:b4:53:SER:OG	30:b4:54:THR:N	2.29	0.64
31:c3:331:ILE:HG23	31:c3:340:GLN:HB2	1.79	0.64
1:A1:1224:PRO:CD	2:A2:731:ILE:HG12	2.10	0.64
2:A2:1160:GLN:H	3:A5:176:LEU:CB	2.09	0.64
1:A3:835:THR:HG23	6:D1:302:PRO:HG3	1.79	0.64
1:A3:1192:GLN:HA	3:A6:611:ILE:HG22	1.74	0.64
1:A3:1236:GLN:CA	3:A6:118:SER:HB2	2.27	0.64
2:A4:574:ARG:NH2	3:A6:456:ASP:H	1.95	0.64
2:A4:711:VAL:HG12	3:A6:516:TRP:CD1	2.00	0.64
2:A4:779:ASP:OD1	3:A6:486:GLN:HG3	1.96	0.64
2:A4:801:THR:OG1	3:A6:319:TYR:CE1	2.51	0.64
2:A4:913:GLY:O	4:B6:342:ARG:NH1	2.30	0.64
2:A4:915:ILE:C	4:B6:342:ARG:CZ	2.71	0.64
3:A5:186:ILE:CG1	5:C2:744:PHE:O	2.46	0.64
3:A6:1390:LEU:C	28:Z4:910:GLN:O	2.17	0.64
6:D5:450:GLU:O	6:D5:454:THR:HG22	1.97	0.64
8:F2:50:LEU:O	8:F2:56:HIS:NE2	2.30	0.64
8:F2:1049:GLN:HE22	17:O4:237:PRO:CG	2.09	0.64
11:I1:881:ILE:HG13	17:O1:249:ARG:C	2.22	0.64
11:I1:925:LEU:CA	15:M1:596:ILE:HB	2.27	0.64
11:I1:928:LEU:CG	20:R1:155:GLU:HB2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:976:ARG:NH2	20:R3:143:PHE:HA	2.13	0.64
11:I2:1043:LEU:CG	16:N3:430:ARG:O	2.45	0.64
11:I4:640:ILE:O	11:I4:645:ARG:NH1	2.31	0.64
11:I4:1270:LYS:CD	26:X3:527:VAL:HB	2.21	0.64
22:T4:672:ILE:HG13	22:T4:711:VAL:HG22	1.80	0.64
23:U1:201:LYS:H	31:c1:624:GLU:CD	2.05	0.64
28:Z1:438:GLU:HB2	30:b1:333:HIS:HE1	1.61	0.64
28:Z3:553:ILE:HD11	30:b3:182:PRO:HG2	1.79	0.64
28:Z3:554:PHE:CE2	30:b3:233:TRP:C	2.73	0.64
28:Z4:558:LEU:N	30:b4:235:LEU:C	2.46	0.64
31:c4:482:LEU:HD13	31:c4:601:ARG:HG3	1.79	0.64
1:A1:1224:PRO:HG3	2:A2:731:ILE:CB	2.26	0.64
2:A2:866:SER:HB2	6:D1:602:THR:O	1.89	0.64
2:A2:969:ASP:N	6:D1:196:ILE:CA	2.57	0.64
2:A2:980:ARG:NE	6:D1:526:LEU:H	1.95	0.64
1:A3:1201:ARG:HA	2:A4:734:LEU:HB2	1.79	0.64
1:A3:1221:ILE:CD1	2:A4:642:ARG:HA	2.27	0.64
1:A3:1248:ILE:HD12	3:A6:640:LEU:HD12	1.79	0.64
1:A3:1282:PHE:CE1	3:A6:623:SER:HA	2.32	0.64
2:A4:540:GLN:O	3:A6:360:ARG:O	2.16	0.64
2:A4:552:PHE:N	3:A6:107:SER:C	2.50	0.64
2:A4:757:LEU:HD11	3:A6:543:GLY:H	1.58	0.64
2:A4:772:SER:CA	3:A6:489:LEU:HD11	2.22	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:HG2	1.78	0.64
2:A4:951:GLU:CA	4:B6:347:LEU:HG	2.27	0.64
2:A4:975:GLU:H	6:D3:499:LEU:CD1	1.98	0.64
3:A5:235:TYR:CE2	5:C2:738:ASP:OD1	2.51	0.64
3:A5:235:TYR:CD2	5:C2:738:ASP:OD1	2.51	0.64
3:A6:1151:THR:HG23	5:C6:734:VAL:O	1.97	0.64
11:I1:834:SER:H	17:O1:237:PRO:CB	2.00	0.64
11:I1:884:LEU:CD2	17:O1:246:LEU:CD1	2.52	0.64
11:I1:939:ASN:C	17:O1:265:ASN:HB2	2.16	0.64
11:I2:880:MET:N	17:O3:251:ILE:N	2.45	0.64
11:I2:884:LEU:C	16:N3:397:GLU:CG	2.69	0.64
11:I2:898:VAL:CG1	17:O3:235:ASN:HB3	2.23	0.64
11:I2:952:LEU:O	16:N3:403:VAL:HG21	1.96	0.64
11:I2:992:ILE:HG22	15:M3:607:SER:O	1.95	0.64
11:I2:1118:LEU:HD11	16:N3:432:TYR:CD2	2.33	0.64
11:I3:1277:LEU:CA	26:X1:522:MET:HB2	2.27	0.64
11:I5:1297:LEU:O	11:I5:1301:ASN:ND2	2.31	0.64
21:S2:316:LEU:HA	21:S2:319:ASN:HD22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:672:ILE:HG13	22:T2:711:VAL:HG22	1.79	0.64
22:T3:672:ILE:HG13	22:T3:711:VAL:HG22	1.80	0.64
23:U1:19:LEU:HA	31:c2:473:THR:OG1	1.96	0.64
23:U2:34:ASP:N	31:c4:527:ARG:NH2	2.44	0.64
23:U2:38:ILE:HD12	31:c4:555:VAL:HG13	1.79	0.64
23:U2:435:PHE:HZ	31:c4:535:VAL:HG22	0.77	0.64
26:X2:284:ALA:C	34:i:493:PRO:HD2	2.22	0.64
28:Z1:549:LYS:HB3	30:b1:182:PRO:HD3	1.80	0.64
28:Z2:555:LYS:HE2	30:b2:213:ASP:HB3	1.79	0.64
28:Z2:556:ASN:CG	30:b2:166:LEU:CD2	2.70	0.64
28:Z3:561:GLN:CG	30:b3:237:LEU:N	2.61	0.64
29:a4:252[B]:MET:CG	29:a4:253:PRO:HD2	2.26	0.64
2:A2:968:SER:CA	6:D1:202:GLN:CA	2.71	0.64
2:A2:1142:PHE:CE1	3:A5:567:VAL:N	2.64	0.64
2:A2:1151:THR:O	3:A5:175:GLU:CA	2.45	0.64
1:A3:1192:GLN:NE2	3:A6:611:ILE:HA	1.94	0.64
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD13	0.70	0.64
1:A3:1332:ARG:HH22	6:D3:682:ASN:N	1.94	0.64
2:A4:607:ARG:O	3:A6:505:ALA:O	2.15	0.64
2:A4:795:GLN:HB3	3:A6:249:SER:HG	1.62	0.64
2:A4:813:GLU:OE2	3:A6:191:LEU:O	2.15	0.64
2:A4:858:ALA:H	3:A6:174:PRO:HD2	1.61	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:CB	2.27	0.64
2:A4:1155:ASN:OD1	5:C4:734:VAL:O	2.15	0.64
3:A5:1395:LYS:CE	28:Z2:872:TYR:H	2.10	0.64
3:A6:442:ARG:HD2	6:D3:692:LEU:H	1.61	0.64
3:A6:484:PRO:CB	6:D3:672:GLU:HG2	2.22	0.64
3:A6:1151:THR:OG1	5:C6:734:VAL:N	2.29	0.64
3:A6:1399:ARG:NH2	28:Z4:968:ARG:CA	2.53	0.64
8:F1:1137:GLN:HB3	17:O2:244:GLU:O	1.90	0.64
8:F1:1261:TYR:HD2	17:O2:259:ASP:C	1.98	0.64
8:F1:1267:ARG:HG2	17:O2:265:ASN:C	2.13	0.64
11:I1:934:LEU:CA	15:M1:602:MET:SD	2.81	0.64
11:I1:955:LYS:NZ	17:O1:249:ARG:NH2	2.45	0.64
11:I1:960:SER:HB2	16:N1:395:GLU:CD	2.22	0.64
11:I1:1051:LYS:HA	17:O1:286:ILE:HG22	1.80	0.64
11:I1:1602:PHE:HB2	11:I2:1738:TYR:OH	1.96	0.64
11:I2:936:LYS:HE3	15:M3:612:PRO:HG2	1.79	0.64
11:I2:959:SER:N	20:R3:166:LEU:HD13	2.02	0.64
11:I3:1277:LEU:HD22	26:X1:519:ILE:N	2.12	0.64
11:I4:813:ILE:C	26:X3:496:THR:CG2	2.69	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1275:SER:HB2	26:X3:521:TRP:CD1	2.33	0.64
21:S1:1097:LYS:NZ	21:S1:1101:PHE:HE1	1.96	0.64
22:T2:696:MET:HE2	22:T2:750:ILE:HG21	1.80	0.64
26:X2:287:ASP:HB2	34:i:480[A]:MET:CB	2.24	0.64
26:X2:304:ARG:HA	34:i:317:LEU:CD1	2.19	0.64
26:X2:313:LEU:N	34:i:471:ILE:HG21	2.12	0.64
26:X2:369:GLU:HG3	34:i:428:LEU:CD2	1.13	0.64
27:Y2:85:GLU:HB2	27:Y2:101:LEU:HD11	1.80	0.64
27:Y2:221:ALA:HB2	27:Y2:312:TRP:CE2	2.31	0.64
28:Z1:532:PHE:N	30:b1:184:SER:HA	2.13	0.64
28:Z1:561:GLN:CG	30:b1:237:LEU:N	2.61	0.64
28:Z4:531:LYS:O	30:b4:182:PRO:HB2	1.96	0.64
2:A2:1130:ARG:O	3:A5:160:ILE:HG22	1.96	0.64
1:A3:1182:ILE:CB	3:A6:639:ASN:HD22	2.10	0.64
1:A3:1194:HIS:O	2:A4:729:SER:OG	2.10	0.64
1:A3:1223:GLU:C	3:A6:496:THR:CG2	2.71	0.64
1:A3:1268:ASP:OD2	3:A6:553:ASP:O	2.15	0.64
1:A3:1271:ILE:N	3:A6:553:ASP:CB	2.60	0.64
2:A4:75:LEU:CD1	3:A6:321:ASP:O	2.34	0.64
2:A4:852:ASP:CG	3:A6:154:GLY:O	2.39	0.64
2:A4:864:ARG:CG	6:D3:609:ILE:H	2.11	0.64
3:A5:1151:THR:OG1	5:C5:733:LEU:HA	1.97	0.64
3:A5:1415:PHE:N	28:Z2:960:CYS:CA	2.59	0.64
3:A6:773:PHE:HZ	3:A6:818:LEU:HD12	1.62	0.64
3:A6:1151:THR:HA	5:C6:733:LEU:HD13	1.72	0.64
3:A6:1395:LYS:O	28:Z4:920:SER:N	2.31	0.64
6:D7:483:GLU:HG3	11:I3:191:GLU:OE1	1.98	0.64
11:I1:881:ILE:N	17:O1:250:LEU:N	2.42	0.64
11:I1:1020:ALA:HB3	16:N1:406:HIS:O	1.97	0.64
11:I1:1063:GLN:O	16:N1:428:ASP:OD2	2.13	0.64
11:I2:877:ILE:HD11	17:O3:254:ARG:CG	2.22	0.64
11:I2:924:ILE:CG1	15:M3:597:LYS:H	2.11	0.64
11:I2:945:LEU:HB3	17:O3:260:LEU:N	1.87	0.64
11:I2:981:VAL:CB	20:R3:147:LEU:HD23	1.94	0.64
11:I2:1046:HIS:H	17:O3:280:GLU:C	2.03	0.64
11:I2:1297:LEU:O	11:I2:1301:ASN:ND2	2.31	0.64
11:I3:1271:GLU:CD	26:X1:504:ILE:CD1	2.70	0.64
21:S3:251:MET:HG3	21:S3:272:LEU:HB2	1.78	0.64
23:U1:201:LYS:N	31:c1:624:GLU:OE2	2.23	0.64
23:U1:401:PRO:C	31:c2:552:ARG:N	2.55	0.64
23:U1:431:ILE:CG2	31:c2:470:ARG:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:25:GLU:CB	31:c4:486:VAL:HG13	1.92	0.64
23:U2:48:GLN:HB2	31:c4:472:GLU:CB	2.27	0.64
23:U2:391:HIS:CB	31:c4:477:GLU:CG	2.71	0.64
25:W2:227:GLN:HA	25:W2:256:VAL:HG13	1.80	0.64
26:X2:189:TYR:CZ	34:i:440:GLU:OE2	2.50	0.64
27:Y2:313:ASN:HB2	27:Y2:318:ILE:H	1.61	0.64
30:b1:55:GLY:H	30:b1:384:ARG:HH11	1.46	0.64
31:c1:158:LEU:O	31:c1:158:LEU:HD23	1.98	0.64
31:c2:331:ILE:HG23	31:c2:340:GLN:HB2	1.79	0.64
31:c5:482:LEU:HD13	31:c5:601:ARG:HG3	1.79	0.64
2:A2:983:LEU:N	6:D1:528:PHE:CZ	2.65	0.64
2:A4:642:ARG:O	3:A6:501:VAL:HG12	1.63	0.64
2:A4:672:ARG:CA	3:A6:508:LEU:HD11	2.18	0.64
2:A4:720:LEU:HB2	3:A6:512:GLU:CB	2.27	0.64
2:A4:721:ARG:CG	3:A6:494:PRO:HD2	2.23	0.64
2:A4:822:ILE:HG21	3:A6:526:ILE:HD11	1.48	0.64
3:A5:162:SER:N	5:C2:744:PHE:HB3	2.12	0.64
3:A5:220:VAL:CG1	5:C2:739:MET:N	2.58	0.64
3:A5:1054:SER:O	11:I5:37:GLU:HG2	1.98	0.64
6:D2:450:GLU:O	6:D2:454:THR:HG22	1.97	0.64
9:G2:255:LEU:HA	17:O4:262:ASP:OD1	1.95	0.64
11:I1:884:LEU:HD22	16:N1:396:ILE:CG1	2.23	0.64
11:I1:898:VAL:HG21	17:O1:236:ASP:HA	1.80	0.64
11:I1:920:PHE:H	16:N1:393:ILE:HG13	1.61	0.64
11:I1:963:LEU:C	20:R1:165:SER:CB	2.71	0.64
11:I1:1041:GLN:CG	15:M1:616:LEU:HG	2.24	0.64
11:I1:1052:LEU:H	17:O1:286:ILE:HB	1.63	0.64
11:I1:1677:LYS:NZ	11:I2:1543:LEU:HD13	2.13	0.64
11:I2:886:LEU:CB	17:O3:242:ARG:HA	2.28	0.64
11:I2:952:LEU:CD2	17:O3:250:LEU:HD11	2.27	0.64
11:I2:958:THR:N	16:N3:399:HIS:NE2	2.43	0.64
11:I2:965:ALA:HB3	20:R3:164:PRO:CA	2.22	0.64
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD11	1.76	0.64
17:O4:107:THR:CG2	18:P4:321:ILE:HD11	2.24	0.64
21:S1:316:LEU:HA	21:S1:319:ASN:HD22	1.62	0.64
21:S2:950:HIS:ND1	21:S2:978:ALA:HB2	2.13	0.64
21:S2:1097:LYS:NZ	21:S2:1101:PHE:HE1	1.96	0.64
21:S4:1097:LYS:NZ	21:S4:1101:PHE:HE1	1.96	0.64
23:U1:395:CYS:C	31:c2:552:ARG:NH1	2.52	0.64
25:W2:180:ASN:HA	25:W2:207:VAL:HG23	1.79	0.64
26:X2:192:LEU:CD2	34:i:443:THR:CG2	2.74	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:119:GLY:O	26:X4:122:ARG:HG2	1.97	0.64
28:Z1:63:SER:OG	28:Z1:112:GLU:OE1	2.15	0.64
28:Z1:555:LYS:HE2	30:b1:213:ASP:HB3	1.79	0.64
28:Z2:527:SER:HA	30:b2:204:GLU:OE1	1.50	0.64
28:Z2:532:PHE:N	30:b2:184:SER:HA	2.13	0.64
28:Z4:527:SER:CB	30:b4:204:GLU:CG	2.76	0.64
31:c2:158:LEU:O	31:c2:158:LEU:HD23	1.98	0.64
1:A1:1332:ARG:NH2	6:D1:682:ASN:N	2.46	0.64
2:A2:1131:ILE:C	3:A5:141:GLY:N	2.56	0.64
1:A3:1088:ASN:C	6:D3:808:ASN:ND2	2.55	0.64
1:A3:1231:VAL:C	3:A6:579:PHE:HB3	2.20	0.64
1:A3:1236:GLN:OE1	3:A6:578:ILE:HA	1.95	0.64
1:A3:1244:LEU:HA	3:A6:633:MET:CE	2.23	0.64
2:A4:86:ASN:N	3:A6:393:HIS:C	2.54	0.64
2:A4:598:VAL:CG2	3:A6:504:PRO:CD	2.71	0.64
2:A4:635:ARG:CZ	3:A6:603:ASN:CB	2.76	0.64
2:A4:669:LEU:CB	3:A6:542:LEU:HG	2.27	0.64
2:A4:769:GLU:C	3:A6:477:PHE:HB2	2.20	0.64
2:A4:891:GLY:O	3:A6:232:LEU:CA	2.46	0.64
2:A4:1019:ARG:NH1	6:D3:239:THR:OG1	2.31	0.64
3:A5:1368:GLN:N	28:Z2:841:ALA:O	2.31	0.64
6:D6:450:GLU:O	6:D6:454:THR:HG22	1.97	0.64
6:D7:450:GLU:O	6:D7:454:THR:HG22	1.97	0.64
8:F1:1266:MET:H	17:O2:262:ASP:CB	2.09	0.64
11:I1:833:PHE:CD2	17:O1:241:SER:CB	2.56	0.64
11:I1:950:LEU:CD1	16:N1:410:MET:HB3	2.27	0.64
11:I1:959:SER:CB	16:N1:395:GLU:CB	2.74	0.64
11:I1:960:SER:CB	16:N1:395:GLU:CD	2.70	0.64
11:I1:1049:LEU:HB3	17:O1:291:ASP:CB	2.26	0.64
11:I2:797:LEU:CD2	17:O3:245:GLU:N	2.61	0.64
21:S1:313:ASN:O	21:S1:317:LYS:HB2	1.96	0.64
21:S1:670:ILE:C	21:S2:1145:LYS:CB	2.70	0.64
26:X1:403:HIS:NE2	37:k2:450:HIS:CD2	2.52	0.64
26:X2:365:ILE:CG2	34:i:424:LEU:HB2	2.27	0.64
28:Z1:555:LYS:HA	30:b1:234:LEU:N	2.12	0.64
28:Z1:556:ASN:CG	30:b1:166:LEU:CD2	2.70	0.64
28:Z3:532:PHE:N	30:b3:184:SER:HA	2.13	0.64
28:Z3:549:LYS:HB3	30:b3:182:PRO:HD3	1.80	0.64
28:Z4:438:GLU:HB2	30:b4:333:HIS:HE1	1.62	0.64
30:b2:21:TRP:CD1	30:b2:364:CYS:HG	2.16	0.64
1:A1:1225:PRO:HD3	2:A2:723:PHE:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:969:ASP:O	6:D1:192:TYR:CE1	2.51	0.64
1:A3:1086:LYS:HD3	6:D3:798:MET:O	1.97	0.64
1:A3:1088:ASN:HA	6:D3:808:ASN:ND2	2.13	0.64
1:A3:1265:ASN:HA	3:A6:683:LEU:CD1	1.90	0.64
2:A4:172:PRO:HB2	6:D3:781:ARG:HG2	1.79	0.64
2:A4:642:ARG:HG3	3:A6:501:VAL:CG2	2.23	0.64
2:A4:692:VAL:HG13	3:A6:467:LEU:N	2.12	0.64
2:A4:760:LEU:HD12	3:A6:388:GLU:OE2	1.97	0.64
2:A4:778:PHE:N	3:A6:481:ARG:CZ	2.43	0.64
2:A4:944:SER:CB	3:A6:200:VAL:CB	2.67	0.64
2:A4:944:SER:OG	3:A6:200:VAL:CG2	2.45	0.64
3:A5:999:SER:HB3	11:I5:64:LYS:CG	2.27	0.64
3:A5:1000:ASP:N	11:I5:62:GLU:HB3	2.13	0.64
3:A6:1151:THR:OG1	5:C6:733:LEU:HA	1.96	0.64
11:I1:880:MET:HB3	17:O1:250:LEU:CB	2.04	0.64
11:I1:947:LEU:CD1	16:N1:411:GLN:CB	2.76	0.64
11:I1:1040:HIS:HD2	16:N1:437:VAL:HG21	1.43	0.64
11:I1:1114:VAL:CG2	16:N1:435:ALA:CB	2.47	0.64
11:I2:949:CYS:CB	15:M3:606:LEU:HB2	2.22	0.64
11:I2:961:ARG:HH21	16:N3:388:LYS:CA	2.10	0.64
11:I3:1270:LYS:CG	26:X1:527:VAL:O	2.34	0.64
21:S1:671:ALA:CA	21:S2:1145:LYS:CB	2.76	0.64
22:T1:752:ALA:C	31:c5:58:ARG:CZ	2.67	0.64
22:T1:885:ARG:HH11	22:T1:885:ARG:CG	2.11	0.64
23:U2:23:LYS:CD	31:c4:484:LEU:CB	2.52	0.64
23:U2:26:GLN:CB	31:c4:491:VAL:H	2.11	0.64
23:U2:37:ASN:H	31:c4:558:GLU:CA	2.10	0.64
23:U2:408:ASP:N	31:c4:542:LYS:CA	2.59	0.64
23:U2:412:LEU:O	31:c4:541:ARG:CZ	2.46	0.64
28:Z1:523:ASP:CB	30:b1:238:ASN:CA	1.89	0.64
28:Z1:553:ILE:HD11	30:b1:182:PRO:HG2	1.79	0.64
30:b3:21:TRP:CD1	30:b3:364:CYS:HG	2.15	0.64
31:c1:331:ILE:HG23	31:c1:340:GLN:HB2	1.79	0.64
2:A2:867:GLU:CB	6:D1:609:ILE:HD11	2.15	0.64
2:A2:973:GLU:CG	6:D1:192:TYR:CE1	2.59	0.64
2:A2:1162:ASN:ND2	3:A5:180:GLU:OE2	2.31	0.64
1:A3:1227:PRO:N	3:A6:551:GLN:CG	2.17	0.64
1:A3:1235:ILE:HA	3:A6:583:LEU:HB2	1.80	0.64
2:A4:89:LEU:HD22	3:A6:429:LEU:CD1	2.27	0.64
2:A4:97:ASP:HB3	3:A6:364:HIS:NE2	2.13	0.64
2:A4:736:PRO:O	3:A6:89:LEU:CD2	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:798:LYS:HE2	3:A6:264:GLU:OE1	1.98	0.64
2:A4:875:LEU:HB3	6:D3:566:PHE:N	2.07	0.64
2:A4:879:LEU:CB	6:D3:564:ASN:ND2	2.59	0.64
3:A5:232:LEU:HD23	5:C2:737:LYS:C	2.23	0.64
3:A5:999:SER:CA	11:I5:63:PRO:HD2	2.27	0.64
3:A5:1369:ILE:HD11	28:Z2:832:PHE:H	1.56	0.64
3:A5:1392:ARG:HG3	28:Z2:867:LYS:HA	1.79	0.64
3:A6:442:ARG:HH11	6:D3:695:LEU:HD12	1.62	0.64
3:A6:1370:ALA:CB	28:Z4:870:ILE:C	2.71	0.64
8:F1:50:LEU:O	8:F1:56:HIS:NE2	2.30	0.64
8:F1:1205:TRP:CG	17:O2:254:ARG:HD3	2.31	0.64
8:F1:1205:TRP:CE2	17:O2:254:ARG:CD	2.77	0.64
9:G1:256:GLN:CB	16:N2:403:VAL:HG12	2.26	0.64
11:I1:837:MET:HE2	17:O1:239:GLN:O	1.97	0.64
11:I1:1042:LEU:CB	20:R1:170:LEU:HD11	2.26	0.64
11:I1:1044:GLY:H	15:M1:616:LEU:CD1	2.10	0.64
11:I1:1668:HIS:C	11:I2:1664:PHE:CE2	2.75	0.64
11:I2:873:ILE:HG21	17:O3:258:GLU:CG	2.20	0.64
11:I2:880:MET:CA	17:O3:247:TRP:CA	2.73	0.64
11:I2:964:SER:O	20:R3:153:GLN:CG	2.46	0.64
11:I2:1061:ASP:HB2	17:O3:278:GLU:N	2.13	0.64
11:I5:1279:THR:CB	26:X2:520:GLU:CA	2.60	0.64
22:T2:671:LYS:HA	22:T2:671:LYS:HE2	1.80	0.64
23:U2:426:TYR:CG	31:c4:463:HIS:CE1	2.86	0.64
25:W4:227:GLN:HA	25:W4:256:VAL:HG13	1.79	0.64
26:X2:369:GLU:CG	34:i:428:LEU:CD2	0.72	0.64
26:X2:369:GLU:OE1	34:i:434:ASP:CB	2.46	0.64
28:Z3:560:ASN:HB2	30:b3:211:ILE:HD12	1.80	0.64
28:Z4:63:SER:OG	28:Z4:112:GLU:OE1	2.15	0.64
28:Z4:526:ARG:O	30:b4:204:GLU:OE1	2.15	0.64
28:Z4:561:GLN:CG	30:b4:237:LEU:N	2.61	0.64
30:b1:200:LEU:HD11	30:b1:212:PHE:HD2	1.63	0.64
30:b3:55:GLY:H	30:b3:384:ARG:HH11	1.46	0.64
31:c2:482:LEU:HD13	31:c2:601:ARG:HG3	1.79	0.64
2:A2:83:GLN:NE2	2:A2:87:GLN:OE1	2.30	0.63
2:A2:868:GLN:HA	6:D1:584:LEU:CD2	2.28	0.63
1:A3:1169:LEU:O	3:A6:589:ALA:C	2.41	0.63
1:A3:1258:VAL:N	3:A6:623:SER:HB2	2.13	0.63
1:A3:1332:ARG:CD	6:D3:636:ASP:CB	2.72	0.63
2:A4:551:GLN:HB2	3:A6:455:LEU:HA	1.80	0.63
2:A4:687:LEU:CD2	3:A6:403:ARG:CG	2.74	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:776:MET:CG	3:A6:525:THR:HA	2.18	0.63
2:A4:895:PRO:CB	4:B6:344:ALA:HB3	2.27	0.63
3:A5:1367:THR:O	28:Z2:825:TYR:CA	2.46	0.63
11:I1:877:ILE:CG1	17:O1:251:ILE:C	2.44	0.63
11:I1:979:ALA:N	15:M1:621:ARG:HD3	1.91	0.63
11:I1:1041:GLN:N	15:M1:620:VAL:CG2	2.61	0.63
11:I1:1297:LEU:O	11:I1:1301:ASN:ND2	2.31	0.63
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CZ	2.66	0.63
11:I2:881:ILE:HA	16:N3:400:LEU:CD1	2.14	0.63
11:I2:924:ILE:CG1	15:M3:597:LYS:N	2.45	0.63
11:I2:1020:ALA:CB	16:N3:409:ALA:N	2.53	0.63
11:I3:1277:LEU:CD2	26:X1:519:ILE:HA	2.09	0.63
17:O4:111:TYR:CZ	18:P4:321:ILE:CD1	2.80	0.63
21:S1:654:LYS:O	21:S2:1153:GLN:O	2.15	0.63
22:T1:672:ILE:HG13	22:T1:711:VAL:HG22	1.80	0.63
23:U1:19:LEU:HD23	31:c2:473:THR:OG1	1.97	0.63
23:U2:23:LYS:CG	31:c4:532:TRP:CH2	2.79	0.63
23:U2:23:LYS:O	31:c4:488:LEU:N	2.30	0.63
23:U4:260:GLU:OE2	24:V4:318:HIS:NE2	2.29	0.63
26:X1:148:MET:HE1	26:X1:182:LEU:HD22	1.78	0.63
26:X1:404:SER:OG	37:k2:450:HIS:HD2	1.81	0.63
28:Z3:555:LYS:HA	30:b3:234:LEU:N	2.12	0.63
28:Z3:556:ASN:CG	30:b3:166:LEU:CD2	2.70	0.63
30:b2:200:LEU:HD11	30:b2:212:PHE:HD2	1.63	0.63
31:c4:158:LEU:O	31:c4:158:LEU:HD23	1.98	0.63
33:h:145:THR:HA	33:h:148:PHE:CE2	2.33	0.63
2:A2:980:ARG:NH2	6:D1:524:ARG:O	2.31	0.63
2:A2:1155:ASN:OD1	5:C2:734:VAL:O	2.15	0.63
1:A3:1165:ASP:CB	3:A6:598:VAL:HG22	1.76	0.63
1:A3:1235:ILE:C	3:A6:583:LEU:H	2.06	0.63
1:A3:1240:HIS:HE1	3:A6:118:SER:CB	1.67	0.63
1:A3:1242:THR:N	3:A6:586:CYS:HA	2.13	0.63
1:A3:1270:SER:C	3:A6:553:ASP:HB3	2.23	0.63
1:A3:1392:ARG:CA	3:A6:227:SER:OG	2.42	0.63
2:A4:95:TYR:HB3	3:A6:365:MET:HA	1.80	0.63
2:A4:171:HIS:NE2	6:D3:708:ASP:CG	2.52	0.63
2:A4:635:ARG:CZ	3:A6:603:ASN:H	2.10	0.63
2:A4:717:VAL:HG23	3:A6:403:ARG:NH2	2.12	0.63
2:A4:718:GLU:CB	3:A6:121:PRO:CG	2.58	0.63
2:A4:720:LEU:HA	3:A6:512:GLU:HA	1.78	0.63
2:A4:724:LEU:HD22	3:A6:95:TYR:CZ	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:901:ALA:HB1	3:A6:133:LYS:NZ	2.13	0.63
8:F1:1137:GLN:N	17:O2:245:GLU:HA	2.13	0.63
11:I1:926:SER:N	15:M1:597:LYS:HG3	2.13	0.63
11:I1:939:ASN:HA	17:O1:264:ILE:C	2.23	0.63
11:I1:1018:LYS:CE	16:N1:413:VAL:HG13	2.06	0.63
11:I2:890:TYR:HD1	17:O3:241:SER:H	1.46	0.63
11:I2:1031:ALA:O	20:R3:173:LEU:HA	1.96	0.63
11:I2:1037:THR:HG22	20:R3:173:LEU:HD23	1.78	0.63
11:I2:1054:ILE:CG2	17:O3:278:GLU:H	2.10	0.63
11:I3:640:ILE:O	11:I3:645:ARG:NH1	2.31	0.63
11:I3:1271:GLU:HB2	26:X1:525:ILE:HG23	1.74	0.63
17:O3:147:ALA:C	18:P3:328:PRO:CB	2.71	0.63
21:S3:950:HIS:ND1	21:S3:978:ALA:HB2	2.13	0.63
21:S4:316:LEU:HA	21:S4:319:ASN:HD22	1.62	0.63
23:U1:19:LEU:HD11	31:c2:470:ARG:HH11	1.63	0.63
23:U2:260:GLU:OE2	24:V2:318:HIS:NE2	2.29	0.63
23:U2:399:ILE:HD13	31:c4:557:HIS:HB2	1.79	0.63
23:U2:416:TYR:N	31:c4:541:ARG:HH11	1.97	0.63
25:W1:227:GLN:HA	25:W1:256:VAL:HG13	1.80	0.63
26:X2:300:SER:N	34:i:368[B]:CYS:HA	2.10	0.63
28:Z1:554:PHE:CE2	30:b1:233:TRP:C	2.73	0.63
1:A1:1197:ALA:HB1	2:A2:728:LYS:NZ	2.02	0.63
2:A2:864:ARG:O	6:D1:608:ILE:HG13	1.94	0.63
2:A2:866:SER:C	6:D1:598:ILE:CG2	2.59	0.63
2:A2:872:ALA:HB2	6:D1:569:CYS:SG	2.38	0.63
2:A2:968:SER:N	6:D1:202:GLN:N	2.38	0.63
1:A3:1091:VAL:CG2	6:D3:808:ASN:CB	2.77	0.63
1:A3:1186:TRP:HA	3:A6:641:ALA:H	1.61	0.63
1:A3:1201:ARG:NH2	2:A4:734:LEU:O	2.03	0.63
1:A3:1241:ARG:HD3	3:A6:597:GLU:CB	2.22	0.63
2:A4:89:LEU:HD12	3:A6:406:LEU:CD1	2.10	0.63
2:A4:551:GLN:O	3:A6:455:LEU:HA	1.98	0.63
2:A4:669:LEU:C	3:A6:542:LEU:HD11	2.22	0.63
2:A4:769:GLU:O	3:A6:528:ILE:CB	2.46	0.63
2:A4:826:ASN:HB3	6:D3:632:ALA:O	1.98	0.63
2:A4:866:SER:OG	6:D3:605:THR:HG23	1.98	0.63
2:A4:891:GLY:C	3:A6:232:LEU:N	2.44	0.63
3:A5:159:SER:CB	5:C2:742:ASP:O	2.44	0.63
3:A5:1403:MSE:C	28:Z2:920:SER:H	1.89	0.63
3:A6:1413:SER:O	28:Z4:994:ILE:CB	2.46	0.63
11:I1:640:ILE:O	11:I1:645:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:934:LEU:O	15:M1:606:LEU:CA	2.44	0.63
11:I1:1035:GLN:N	15:M1:627:LEU:HD23	2.09	0.63
11:I1:1103:LEU:CD2	20:R1:175:GLN:HG2	2.27	0.63
11:I1:1110:SER:H	16:N1:440:GLU:N	1.96	0.63
11:I2:898:VAL:HG12	17:O3:235:ASN:CB	2.21	0.63
11:I2:900:ARG:H	17:O3:232:LYS:CB	2.10	0.63
11:I2:1105:TRP:CG	16:N3:432:TYR:HH	2.16	0.63
11:I4:1297:LEU:O	11:I4:1301:ASN:ND2	2.31	0.63
21:S4:950:HIS:ND1	21:S4:978:ALA:HB2	2.13	0.63
22:T3:885:ARG:HH11	22:T3:885:ARG:CG	2.11	0.63
23:U2:43:ARG:N	31:c4:474:ASN:N	2.46	0.63
23:U2:78:VAL:CG1	31:c4:553:LEU:HA	2.29	0.63
23:U2:398:ILE:HG12	31:c4:531:TRP:C	2.24	0.63
23:U3:13:THR:O	23:U3:17:ASP:N	2.24	0.63
23:U3:278:GLN:HG2	25:W4:189:SER:O	1.98	0.63
26:X1:401:LYS:HD3	37:k2:450:HIS:ND1	2.12	0.63
26:X2:277:THR:C	34:i:13:LEU:CD1	2.44	0.63
26:X2:287:ASP:CB	34:i:480[A]:MET:HB2	2.20	0.63
26:X2:296:PRO:O	34:i:447:CYS:O	2.14	0.63
28:Z1:560:ASN:HB2	30:b1:211:ILE:HD12	1.80	0.63
28:Z2:526:ARG:O	30:b2:204:GLU:OE1	2.15	0.63
28:Z2:561:GLN:CG	30:b2:237:LEU:N	2.61	0.63
30:b4:55:GLY:H	30:b4:384:ARG:HH11	1.46	0.63
31:c1:482:LEU:HD13	31:c1:601:ARG:HG3	1.79	0.63
31:c5:331:ILE:HG23	31:c5:340:GLN:HB2	1.79	0.63
1:A1:868:GLN:CA	6:D3:280:GLN:HB3	2.27	0.63
2:A2:979:GLY:O	6:D1:472:PHE:HB2	1.96	0.63
2:A2:1137:ALA:O	3:A5:130:ILE:HD12	1.98	0.63
2:A2:1139:ILE:HD12	3:A5:138:LEU:HD12	1.80	0.63
1:A3:1098:ARG:NH1	11:I2:1411:ILE:O	2.31	0.63
1:A3:1189:LEU:CG	3:A6:579:PHE:CE1	2.75	0.63
1:A3:1201:ARG:C	3:A6:546:ASN:ND2	2.52	0.63
1:A3:1233:GLN:HG3	3:A6:578:ILE:HB	1.80	0.63
2:A4:652:PRO:HB3	3:A6:542:LEU:HD13	1.24	0.63
2:A4:770:GLY:N	3:A6:477:PHE:CB	2.61	0.63
2:A4:775:LEU:CG	3:A6:478:ASP:O	2.46	0.63
2:A4:778:PHE:HE1	3:A6:466:ALA:HB1	1.55	0.63
2:A4:793:SER:CA	3:A6:146:LYS:HE2	2.27	0.63
3:A5:999:SER:C	11:I5:64:LYS:HE3	2.24	0.63
3:A6:1403:MSE:CE	28:Z4:964:LEU:HA	1.96	0.63
11:I1:912:VAL:N	15:M1:584:GLN:HE22	1.93	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1738:TYR:C	11:I2:1603:ARG:HB3	2.23	0.63
11:I2:797:LEU:CD1	17:O3:244:GLU:O	2.44	0.63
11:I2:1360:GLU:N	11:I2:1360:GLU:OE1	2.32	0.63
11:I4:408:PRO:O	11:I4:409:SER:OG	2.16	0.63
11:I4:1270:LYS:HE2	26:X3:527:VAL:CG1	1.83	0.63
21:S3:316:LEU:HA	21:S3:319:ASN:HD22	1.63	0.63
22:T1:696:MET:HE2	22:T1:750:ILE:HG21	1.80	0.63
23:U1:275:GLU:CB	25:W2:190:ASP:HA	2.26	0.63
23:U1:402:GLY:O	31:c2:548:VAL:N	2.28	0.63
23:U1:434:THR:HG21	31:c2:479:ILE:N	1.62	0.63
26:X2:284:ALA:CA	34:i:479:THR:CA	2.73	0.63
26:X2:297:LYS:HG3	34:i:447:CYS:O	1.99	0.63
28:Z2:63:SER:OG	28:Z2:112:GLU:OE1	2.15	0.63
28:Z4:561:GLN:HG2	30:b4:235:LEU:CD2	2.07	0.63
2:A2:825:ARG:CD	6:D1:633:LYS:HG3	2.28	0.63
2:A2:1132:PRO:CD	3:A5:160:ILE:CG2	2.65	0.63
2:A2:1141:GLU:O	3:A5:129:ASN:N	2.29	0.63
2:A4:550:VAL:O	3:A6:457:LYS:HB3	1.97	0.63
2:A4:674:ASP:N	3:A6:97:ASP:OD1	2.31	0.63
2:A4:720:LEU:CB	3:A6:511:PHE:O	2.47	0.63
2:A4:947:LYS:CD	3:A6:203:ILE:CG1	2.76	0.63
2:A4:951:GLU:N	4:B6:347:LEU:CG	2.54	0.63
2:A4:980:ARG:HD2	6:D3:526:LEU:H	1.62	0.63
2:A4:1151:THR:CA	5:C4:733:LEU:CA	2.60	0.63
3:A6:520:GLU:CG	6:D3:639:LEU:CG	2.74	0.63
6:D4:450:GLU:O	6:D4:454:THR:HG22	1.97	0.63
11:I1:919:ALA:O	15:M1:592:LEU:CB	2.47	0.63
11:I1:921:GLU:HA	15:M1:596:ILE:HG13	1.81	0.63
11:I1:927:HIS:CD2	15:M1:594:LYS:HG3	2.34	0.63
11:I1:934:LEU:N	15:M1:601:ASP:O	2.31	0.63
11:I1:1029:LEU:HB3	20:R1:174:ARG:CG	2.28	0.63
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD11	1.79	0.63
11:I1:1109:LEU:CG	16:N1:438:LEU:HD23	2.26	0.63
11:I1:1540:LYS:CE	11:I2:1739:GLU:HB2	2.22	0.63
11:I2:640:ILE:O	11:I2:645:ARG:NH1	2.31	0.63
11:I2:1033:PRO:HB2	20:R3:177:LEU:CG	2.12	0.63
11:I2:1047:CYS:HA	17:O3:287:LEU:HD22	1.80	0.63
11:I4:813:ILE:CA	26:X3:496:THR:CG2	2.76	0.63
17:O2:111:TYR:N	18:P2:325:ILE:CG1	2.57	0.63
22:T4:696:MET:HE2	22:T4:750:ILE:HG21	1.80	0.63
23:U2:394:ILE:O	31:c4:555:VAL:HG22	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:398:ILE:HD12	31:c4:555:VAL:HG22	1.81	0.63
27:Y1:42:THR:O	27:Y1:44:ASN:N	2.31	0.63
28:Z1:410:ASN:ND2	30:b1:252:ALA:N	2.47	0.63
28:Z1:559:GLU:HB3	30:b1:211:ILE:O	1.99	0.63
28:Z3:555:LYS:HE2	30:b3:213:ASP:HB3	1.79	0.63
28:Z4:527:SER:HA	30:b4:204:GLU:CG	1.88	0.63
28:Z4:556:ASN:CG	30:b4:166:LEU:CD2	2.70	0.63
28:Z4:560:ASN:HB2	30:b4:211:ILE:HD12	1.80	0.63
2:A2:876:ARG:CD	6:D1:558:LYS:CG	2.59	0.63
2:A2:907:SER:HB3	6:D1:600:LYS:C	2.23	0.63
1:A3:1162:ASN:OD1	3:A6:732:GLN:OE1	2.16	0.63
1:A3:1162:ASN:H	3:A6:647:GLU:HA	1.61	0.63
2:A4:80:LYS:HZ2	3:A6:387:THR:HG22	1.64	0.63
2:A4:473:PRO:HG3	3:A6:366:ALA:O	1.99	0.63
2:A4:726:ALA:HA	3:A6:575:LEU:CD1	2.29	0.63
2:A4:989:MSE:HG3	6:D3:500:LYS:CD	2.28	0.63
11:I1:991:THR:HG22	15:M1:611:LYS:H	1.60	0.63
11:I2:925:LEU:HG	15:M3:593:ALA:CB	2.28	0.63
11:I2:978:LYS:C	15:M3:621:ARG:HH11	2.03	0.63
11:I2:1054:ILE:CG2	17:O3:278:GLU:HB3	2.28	0.63
11:I2:1114:VAL:HG13	16:N3:432:TYR:HA	1.79	0.63
11:I3:1360:GLU:N	11:I3:1360:GLU:OE1	2.32	0.63
11:I5:640:ILE:O	11:I5:645:ARG:NH1	2.31	0.63
23:U2:394:ILE:CD1	31:c4:538:LEU:CB	2.76	0.63
23:U2:407:VAL:CA	31:c4:542:LYS:CG	2.77	0.63
26:X2:195:GLN:CG	34:i:439:GLN:HG3	2.03	0.63
26:X2:317:PHE:CD2	34:i:477:GLY:CA	2.82	0.63
27:Y3:81:VAL:HG23	27:Y3:111:LEU:HD13	1.81	0.63
27:Y4:85:GLU:HB2	27:Y4:101:LEU:HD11	1.80	0.63
28:Z1:527:SER:CB	30:b1:204:GLU:CG	2.76	0.63
28:Z4:559:GLU:HB3	30:b4:211:ILE:O	1.99	0.63
2:A2:780:GLU:CA	6:D1:674:TYR:HA	2.25	0.63
2:A2:870:HIS:NE2	6:D1:551:PHE:O	2.19	0.63
2:A2:970:PHE:CD2	6:D1:498:GLU:CD	2.73	0.63
2:A2:1094:ILE:HD13	6:D2:708:ASP:OD1	1.98	0.63
2:A2:1122:LEU:HD11	3:A5:135:PHE:CD2	2.30	0.63
2:A2:1135:ARG:CZ	3:A5:134:VAL:HG11	2.28	0.63
2:A2:1143:LEU:N	3:A5:130:ILE:O	2.31	0.63
1:A3:1184:ASP:HB3	3:A6:727:ASN:OD1	1.99	0.63
2:A4:87:GLN:HB2	3:A6:392:LEU:CA	2.13	0.63
2:A4:543:GLY:O	3:A6:365:MET:CG	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:682:ARG:HG2	3:A6:106:ALA:HA	1.81	0.63
2:A4:724:LEU:HB2	3:A6:547:GLU:OE2	1.99	0.63
2:A4:727:ASN:HD21	3:A6:605:TYR:CA	2.10	0.63
2:A4:864:ARG:HB3	6:D3:608:ILE:CG1	2.26	0.63
2:A4:870:HIS:HB3	6:D3:551:PHE:HD2	1.64	0.63
2:A4:896:ALA:C	3:A6:165:PHE:CD1	2.73	0.63
2:A4:909:LYS:CG	6:D3:552:TYR:CZ	2.49	0.63
4:B5:344:ALA:CA	5:C2:737:LYS:NZ	2.59	0.63
9:G1:262:SER:HB3	17:O2:256:TYR:OH	1.98	0.63
11:I1:884:LEU:HB3	16:N1:397:GLU:N	2.14	0.63
11:I1:916:ALA:N	15:M1:586:ASP:CA	2.60	0.63
11:I1:920:PHE:HZ	17:O1:247:TRP:CD2	2.17	0.63
11:I1:1110:SER:CA	16:N1:437:VAL:C	2.41	0.63
11:I2:921:GLU:C	15:M3:593:ALA:N	2.50	0.63
11:I2:981:VAL:CB	20:R3:147:LEU:HG	2.27	0.63
11:I2:1067:PHE:CD2	16:N3:431:VAL:HB	2.34	0.63
11:I2:1070:LEU:HD12	16:N3:429:GLU:C	2.24	0.63
11:I3:1277:LEU:HD22	26:X1:518:ASP:C	2.24	0.63
11:I3:1297:LEU:O	11:I3:1301:ASN:ND2	2.31	0.63
11:I4:1360:GLU:N	11:I4:1360:GLU:OE1	2.32	0.63
17:O3:155:VAL:CB	18:P3:321:ILE:HG21	2.21	0.63
18:P1:279:GLY:H	18:P4:322:LYS:HD2	1.61	0.63
22:T1:720:ILE:CA	31:c5:31:TYR:OH	2.47	0.63
26:X4:148:MET:HE1	26:X4:182:LEU:HD22	1.78	0.63
28:Z3:526:ARG:O	30:b3:204:GLU:OE1	2.16	0.63
28:Z4:549:LYS:HB3	30:b4:182:PRO:HD3	1.80	0.63
1:A1:1200:ARG:HB3	2:A2:727:ASN:CA	2.29	0.63
2:A2:227:SER:CB	6:D1:711:PHE:C	2.72	0.63
1:A3:1225:PRO:CD	3:A6:497:GLY:HA2	2.28	0.63
1:A3:1229:VAL:CG2	3:A6:574:ARG:CG	2.76	0.63
2:A4:736:PRO:CA	3:A6:685:ARG:HH11	1.68	0.63
2:A4:781:ARG:CD	6:D3:633:LYS:NZ	2.52	0.63
2:A4:792:VAL:HG22	3:A6:248:VAL:H	0.81	0.63
2:A4:806:PHE:O	3:A6:470:ARG:O	2.17	0.63
2:A4:870:HIS:O	6:D3:569:CYS:HB3	1.99	0.63
2:A4:977:VAL:HA	6:D3:492:VAL:HG13	1.78	0.63
3:A5:177:ILE:CG2	5:C2:737:LYS:HA	2.29	0.63
3:A6:1377:ARG:HD2	28:Z4:810:ASP:CB	2.29	0.63
6:D5:238:ALA:HB3	31:c3:478:SER:CB	2.29	0.63
11:I1:898:VAL:CG2	17:O1:236:ASP:HA	2.29	0.63
11:I1:928:LEU:CD1	20:R1:155:GLU:HB2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:936:LYS:HB2	15:M1:605:THR:HB	1.80	0.63
11:I1:953:LEU:N	16:N1:403:VAL:HG11	2.13	0.63
11:I1:980:ILE:HG13	20:R1:147:LEU:HD13	1.78	0.63
11:I1:1052:LEU:CD1	15:M1:623:LEU:HD12	2.27	0.63
11:I1:1671:LEU:HD13	11:I2:1675:VAL:HG23	1.81	0.63
11:I2:899:LEU:CA	17:O3:235:ASN:HB2	2.29	0.63
11:I2:913:ALA:O	15:M3:584:GLN:HG3	1.99	0.63
11:I3:1280:PRO:CD	26:X1:523:LEU:HD13	2.14	0.63
11:I4:813:ILE:C	26:X3:496:THR:HG22	2.23	0.63
11:I4:1276:GLN:CB	26:X3:516:ASN:O	2.43	0.63
21:S3:683:LEU:H	21:S4:1149:GLU:N	1.97	0.63
23:U2:436:LEU:CD1	31:c4:540:HIS:CG	2.79	0.63
26:X2:204:PHE:HD2	34:i:445:GLN:C	2.05	0.63
26:X2:265:ILE:HG21	26:X2:289:ILE:HD11	1.81	0.63
26:X2:321:ALA:CA	34:i:84:ARG:HD3	2.29	0.63
27:Y3:85:GLU:HB2	27:Y3:101:LEU:HD11	1.80	0.63
27:Y4:81:VAL:HG23	27:Y4:111:LEU:HD13	1.81	0.63
28:Z1:829:SER:HA	28:Z1:841:ALA:HB1	1.81	0.63
28:Z2:549:LYS:HB3	30:b2:182:PRO:HD3	1.79	0.63
28:Z3:527:SER:CB	30:b3:204:GLU:CG	2.76	0.63
28:Z3:540:LEU:CA	30:b3:165:THR:HG23	2.21	0.63
28:Z3:829:SER:HA	28:Z3:841:ALA:HB1	1.81	0.63
28:Z4:531:LYS:HD3	30:b4:183:LEU:CB	1.97	0.63
31:c3:463:HIS:ND1	31:c5:702:GLU:C	2.27	0.63
1:A1:1052:THR:CG2	6:D1:812:VAL:CG1	2.77	0.63
1:A1:1222:ALA:C	2:A2:645:PHE:CE1	2.77	0.63
2:A2:940:PRO:HA	3:A5:585:ASN:HB3	1.80	0.63
2:A2:1094:ILE:HD12	6:D2:708:ASP:OD1	1.99	0.63
2:A2:1154:PHE:HB3	3:A5:175:GLU:OE1	1.92	0.63
1:A3:1198:GLU:OE1	3:A6:679:TYR:C	2.41	0.63
1:A3:1254:LEU:N	3:A6:634:ASP:CB	2.61	0.63
2:A4:756:ALA:CB	3:A6:387:THR:O	2.45	0.63
2:A4:780:GLU:OE2	3:A6:565:THR:CG2	2.46	0.63
3:A5:999:SER:OG	11:I5:63:PRO:CG	2.46	0.63
3:A5:1022:SER:O	11:I5:95:LYS:CB	2.42	0.63
3:A5:1395:LYS:HE3	28:Z2:872:TYR:N	2.13	0.63
11:I1:1055:GLU:CG	17:O1:280:GLU:HG3	2.27	0.63
11:I2:948:ALA:CA	17:O3:256:TYR:HB3	2.23	0.63
17:O3:147:ALA:O	18:P3:328:PRO:HB3	1.99	0.63
21:S1:679:ILE:O	21:S2:1071:LEU:HD21	1.96	0.63
22:T1:751:ARG:HH12	31:c5:59:ASP:CG	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:826:GLY:CA	31:c5:23:ARG:HH12	2.09	0.63
23:U2:37:ASN:HB2	31:c4:558:GLU:C	2.24	0.63
23:U2:396:LEU:CD1	31:c4:550:LYS:N	2.60	0.63
23:U3:260:GLU:OE2	24:V3:318:HIS:NE2	2.29	0.63
23:U3:278:GLN:CG	25:W4:189:SER:HB3	2.13	0.63
27:Y1:85:GLU:HB2	27:Y1:101:LEU:HD11	1.80	0.63
28:Z1:526:ARG:O	30:b1:204:GLU:OE1	2.16	0.63
28:Z3:401:THR:CB	30:b3:253:SER:O	2.25	0.63
28:Z4:527:SER:CA	30:b4:204:GLU:OE1	2.12	0.63
28:Z4:532:PHE:N	30:b4:184:SER:HA	2.13	0.63
30:b4:200:LEU:HD11	30:b4:212:PHE:HD2	1.63	0.63
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG23	0.29	0.62
2:A2:1154:PHE:CD2	3:A5:175:GLU:CG	2.79	0.62
1:A3:1332:ARG:CD	3:A6:127:HIS:CE1	2.82	0.62
2:A4:91:LEU:HB3	3:A6:104:PRO:HG3	1.81	0.62
2:A4:227:SER:HB3	6:D3:708:ASP:O	1.98	0.62
2:A4:818:LEU:C	3:A6:147:LEU:C	2.63	0.62
2:A4:949:PHE:CG	4:B6:348:PRO:HD3	2.29	0.62
3:A5:186:ILE:HD12	5:C2:744:PHE:CB	2.26	0.62
3:A5:1029:ILE:CG2	11:I5:70:GLU:CA	2.72	0.62
8:F1:330:GLU:N	8:F1:330:GLU:OE1	2.32	0.62
11:I1:850:ILE:CG2	15:M1:594:LYS:HG2	2.28	0.62
11:I1:898:VAL:CG2	17:O1:237:PRO:HD3	2.29	0.62
11:I1:917:TYR:CG	15:M1:586:ASP:O	2.51	0.62
11:I1:996:LEU:HD23	16:N1:410:MET:CE	2.02	0.62
11:I2:881:ILE:HG23	17:O3:249:ARG:HH22	1.59	0.62
11:I2:945:LEU:HB3	17:O3:260:LEU:H	1.62	0.62
11:I2:965:ALA:HB3	20:R3:165:SER:H	1.63	0.62
22:T1:736:LEU:N	31:c5:19:THR:HG23	2.13	0.62
23:U1:26:GLN:O	31:c2:563:ARG:HA	1.99	0.62
23:U1:201:LYS:HD2	31:c1:625:PRO:CD	2.29	0.62
23:U2:35:PRO:HB2	31:c4:531:TRP:HD1	1.62	0.62
23:U2:434:THR:CA	31:c4:460:LEU:CB	2.49	0.62
26:X2:197:VAL:CB	34:i:366:PHE:CD1	2.70	0.62
26:X2:292:LEU:CA	34:i:448:PHE:CE2	2.79	0.62
26:X2:360:PHE:C	34:i:419:THR:O	2.41	0.62
28:Z3:119:VAL:HB	28:Z3:131:LEU:HB2	1.81	0.62
28:Z4:829:SER:HA	28:Z4:841:ALA:HB1	1.81	0.62
31:c3:482:LEU:HD13	31:c3:601:ARG:HG3	1.79	0.62
2:A2:975:GLU:H	6:D1:499:LEU:CD1	2.12	0.62
2:A2:979:GLY:H	6:D1:496:LEU:HD13	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:992:TYR:CG	6:D1:238:ALA:HB2	2.34	0.62
2:A4:542:LEU:HD23	3:A6:364:HIS:CE1	2.28	0.62
2:A4:543:GLY:O	3:A6:365:MET:CA	2.47	0.62
2:A4:726:ALA:CB	3:A6:575:LEU:HD13	2.29	0.62
2:A4:860:GLU:O	6:D3:607:PRO:CD	2.39	0.62
2:A4:897:ASN:O	3:A6:165:PHE:HD1	1.82	0.62
2:A4:1151:THR:HG21	5:C4:734:VAL:CA	2.26	0.62
3:A5:160:ILE:C	5:C2:744:PHE:HA	2.23	0.62
3:A6:484:PRO:HD2	6:D3:672:GLU:HA	1.81	0.62
3:A6:1375:THR:OG1	28:Z4:829:SER:CB	2.47	0.62
8:F1:1264:ARG:NH2	17:O2:263:GLN:C	2.49	0.62
9:G1:262:SER:HB3	17:O2:256:TYR:CZ	2.34	0.62
11:I1:925:LEU:C	15:M1:597:LYS:HG3	2.25	0.62
11:I1:951:LYS:CD	16:N1:400:LEU:C	2.67	0.62
11:I1:1049:LEU:CD1	15:M1:626:HIS:HD2	1.78	0.62
11:I1:1055:GLU:CD	17:O1:280:GLU:HB2	2.24	0.62
11:I1:1360:GLU:N	11:I1:1360:GLU:OE1	2.32	0.62
11:I1:1433:THR:HG21	12:J1:270:ARG:HD3	1.82	0.62
11:I1:1540:LYS:NZ	11:I2:1739:GLU:HB2	2.13	0.62
11:I1:1602:PHE:CD1	11:I2:1666:THR:CG2	2.65	0.62
11:I1:1611:PHE:HB2	11:I2:1672:VAL:CG2	2.30	0.62
11:I2:828:VAL:CG1	17:O3:237:PRO:HD2	2.29	0.62
11:I2:834:SER:CB	17:O3:237:PRO:CA	2.13	0.62
11:I2:1029:LEU:H	20:R3:171:ALA:CA	2.12	0.62
11:I2:1040:HIS:HE1	16:N3:437:VAL:HG11	1.52	0.62
11:I2:1109:LEU:HB3	16:N3:438:LEU:HD23	1.82	0.62
17:O2:111:TYR:H	18:P2:325:ILE:CB	2.11	0.62
23:U1:23:LYS:HD3	31:c2:468:THR:CB	2.29	0.62
23:U1:260:GLU:OE2	24:V1:318:HIS:NE2	2.29	0.62
23:U2:24:ILE:N	31:c4:487:PHE:N	2.45	0.62
23:U2:24:ILE:O	31:c4:489:LEU:CD1	2.47	0.62
23:U2:359:ILE:CB	31:c4:544:VAL:C	2.61	0.62
23:U2:394:ILE:HD13	31:c4:538:LEU:HB2	1.81	0.62
23:U2:395:CYS:HB3	31:c4:555:VAL:N	2.13	0.62
23:U2:432:TYR:CZ	31:c4:464:LEU:HD13	2.15	0.62
26:X1:170:ASN:O	26:X1:174:GLU:HG3	1.99	0.62
26:X2:286:SER:C	34:i:492:TRP:CE3	2.34	0.62
28:Z2:527:SER:CB	30:b2:204:GLU:CG	2.76	0.62
28:Z4:411:LEU:CD2	30:b4:251:ILE:CG2	2.54	0.62
30:b4:371:HIS:CE1	30:b4:384:ARG:HD2	2.35	0.62
1:A3:1116:HIS:HB2	3:A6:596:ARG:NH2	2.02	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1188:ASN:HB2	3:A6:642:ARG:CA	2.29	0.62
1:A3:1325:MET:HE3	3:A6:126:ARG:NH2	2.12	0.62
2:A4:551:GLN:HG3	3:A6:107:SER:CA	2.20	0.62
2:A4:732:GLN:HA	3:A6:92:ASP:HA	1.80	0.62
2:A4:760:LEU:CB	3:A6:388:GLU:HG3	2.29	0.62
2:A4:852:ASP:HB3	3:A6:169:TYR:CE1	2.31	0.62
2:A4:855:THR:CB	3:A6:167:TRP:C	2.71	0.62
2:A4:876:ARG:NE	6:D3:565:MET:SD	2.68	0.62
2:A4:877:ALA:HA	6:D3:563:GLU:HA	0.62	0.62
2:A4:977:VAL:C	6:D3:496:LEU:CD1	2.45	0.62
2:A4:985:ALA:CB	6:D3:497:PHE:HA	2.29	0.62
2:A4:985:ALA:HB1	6:D3:500:LYS:HA	1.77	0.62
3:A5:993:ASN:O	11:I5:57:GLU:HA	1.99	0.62
3:A5:1032:LEU:HB2	11:I5:69:GLY:O	1.98	0.62
3:A5:1414:PHE:H	28:Z2:961:PHE:CB	2.12	0.62
3:A6:446:LEU:HG	6:D3:721:PRO:HA	1.79	0.62
11:I1:957:SER:C	20:R1:168:LEU:CG	2.68	0.62
11:I1:987:GLY:N	15:M1:613:ASP:CB	2.61	0.62
11:I1:1048:GLU:HG2	17:O1:288:GLU:H	1.65	0.62
11:I1:1116:ASP:OD1	12:J1:241:THR:HG23	2.00	0.62
11:I2:896:PRO:HB3	17:O3:233:THR:CB	2.29	0.62
11:I2:1031:ALA:H	20:R3:173:LEU:HA	1.15	0.62
11:I2:1035:GLN:C	15:M3:623:LEU:CD2	2.72	0.62
11:I2:1227:GLU:OE1	11:I2:1227:GLU:N	2.32	0.62
17:O4:109:PRO:CA	18:P4:318:PRO:HB3	2.29	0.62
21:S2:1032:ILE:CD1	21:S2:1051:ALA:HA	2.29	0.62
22:T1:724:TYR:OH	31:c5:28:LYS:HA	1.98	0.62
23:U2:23:LYS:HG2	31:c4:532:TRP:CZ3	2.34	0.62
23:U2:24:ILE:HD11	31:c4:457:LEU:HD12	1.82	0.62
23:U2:404:VAL:CG1	31:c4:543:ALA:HA	2.24	0.62
26:X2:277:THR:O	34:i:13:LEU:CG	2.47	0.62
26:X2:308:ASN:HB2	34:i:405:TYR:HB3	1.80	0.62
26:X3:170:ASN:O	26:X3:174:GLU:HG3	1.99	0.62
28:Z1:555:LYS:CG	30:b1:213:ASP:N	2.59	0.62
2:A2:227:SER:HB2	6:D1:711:PHE:C	2.24	0.62
2:A2:870:HIS:HB3	6:D1:548:LEU:HD23	1.82	0.62
2:A2:980:ARG:NH2	6:D1:503:LEU:CG	2.59	0.62
2:A2:1157:TYR:CG	3:A5:131:PRO:HB3	2.26	0.62
1:A3:1161:ALA:O	3:A6:649:GLY:N	2.31	0.62
2:A4:539:LYS:C	3:A6:359:LEU:C	2.61	0.62
2:A4:678:LEU:HD23	3:A6:431:PHE:CG	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:678:LEU:CG	3:A6:103:ARG:O	2.31	0.62
2:A4:755:GLN:N	3:A6:540:GLN:H	1.98	0.62
2:A4:770:GLY:H	3:A6:469:PHE:HB2	1.65	0.62
2:A4:823:VAL:CB	3:A6:167:TRP:CZ2	2.79	0.62
2:A4:908:LEU:CD2	6:D3:601:PHE:CA	2.76	0.62
3:A6:442:ARG:HH11	6:D3:695:LEU:HD11	1.64	0.62
3:A6:1370:ALA:CA	28:Z4:874:ASN:CB	2.77	0.62
6:D7:179:ASP:OD2	11:I3:49:PRO:HA	2.00	0.62
9:G1:256:GLN:N	17:O2:257:ALA:HB2	2.10	0.62
11:I1:882:LYS:HB2	17:O1:245:GLU:HB3	1.77	0.62
11:I1:924:ILE:CD1	15:M1:595:MET:HB3	2.00	0.62
11:I1:983:LEU:HD13	15:M1:621:ARG:HE	1.62	0.62
11:I1:1664:PHE:CD2	11:I2:1669:ARG:N	2.62	0.62
11:I2:408:PRO:O	11:I2:409:SER:OG	2.16	0.62
11:I2:1029:LEU:CB	20:R3:174:ARG:CG	2.67	0.62
11:I3:1644:ARG:HD3	12:J3:275:PHE:CZ	2.34	0.62
11:I4:1433:THR:HG21	12:J4:270:ARG:HD3	1.82	0.62
21:S4:1032:ILE:CD1	21:S4:1051:ALA:HA	2.29	0.62
22:T3:671:LYS:HA	22:T3:671:LYS:HE2	1.80	0.62
22:T4:671:LYS:HA	22:T4:671:LYS:HE2	1.80	0.62
23:U1:35:PRO:CG	31:c2:556:GLN:CG	2.74	0.62
23:U2:391:HIS:ND1	31:c4:477:GLU:CB	2.63	0.62
23:U2:396:LEU:C	31:c4:554:LEU:HB3	2.24	0.62
23:U2:432:TYR:CE2	31:c4:464:LEU:CD1	2.81	0.62
23:U4:13:THR:O	23:U4:17:ASP:N	2.24	0.62
26:X2:302:THR:H	34:i:333:LEU:HB3	0.83	0.62
28:Z2:554:PHE:O	30:b2:233:TRP:O	1.89	0.62
31:c3:158:LEU:O	31:c3:158:LEU:HD23	1.98	0.62
1:A1:1056:PHE:HZ	6:D1:809:ALA:N	1.95	0.62
2:A2:908:LEU:CG	6:D1:601:PHE:C	2.59	0.62
2:A2:1157:TYR:CD1	3:A5:134:VAL:HG21	2.30	0.62
1:A3:1233:GLN:HG2	3:A6:578:ILE:HG21	1.80	0.62
1:A3:1258:VAL:N	3:A6:623:SER:CB	2.62	0.62
2:A4:691:LYS:HZ2	3:A6:330:LEU:HG	1.63	0.62
2:A4:712:THR:H	3:A6:462:LEU:HD23	1.60	0.62
2:A4:714:GLN:OE1	3:A6:489:LEU:O	2.17	0.62
2:A4:721:ARG:NE	3:A6:122:PHE:HZ	1.94	0.62
2:A4:775:LEU:HB2	3:A6:489:LEU:HD12	0.67	0.62
2:A4:820:LYS:NZ	3:A6:166:LEU:HA	2.14	0.62
2:A4:886:PHE:HE1	3:A6:176:LEU:CD2	2.12	0.62
2:A4:891:GLY:O	3:A6:232:LEU:C	2.41	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:894:THR:OG1	3:A6:166:LEU:N	2.33	0.62
2:A4:897:ASN:HB2	3:A6:177:ILE:H	1.64	0.62
2:A4:903:GLU:OE2	3:A6:180:GLU:OE1	2.17	0.62
3:A6:444:ARG:H	6:D3:719:LEU:CD1	2.11	0.62
3:A6:1398:LYS:HD3	28:Z4:921:THR:N	2.11	0.62
8:F1:1202:TYR:CD1	17:O2:252:VAL:CG2	2.82	0.62
8:F2:330:GLU:N	8:F2:330:GLU:OE1	2.32	0.62
11:I1:924:ILE:HD11	15:M1:596:ILE:HG13	1.81	0.62
11:I1:1048:GLU:HB2	17:O1:284:LYS:CA	2.27	0.62
11:I1:1605:LEU:HD22	11:I2:1669:ARG:HD3	1.79	0.62
11:I2:919:ALA:HB2	16:N3:389:PHE:HA	1.80	0.62
11:I2:976:ARG:HE	20:R3:143:PHE:C	2.07	0.62
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD22	1.99	0.62
11:I2:1049:LEU:HA	15:M3:622:VAL:CG1	2.30	0.62
11:I2:1644:ARG:HD3	12:J2:275:PHE:CZ	2.34	0.62
11:I5:1116:ASP:OD1	12:J5:241:THR:HG23	2.00	0.62
21:S3:596:ILE:N	21:S4:1119:LEU:CD1	2.53	0.62
21:S3:1054:LEU:HA	21:S3:1057:TYR:HD2	1.65	0.62
22:T2:851:LYS:HA	22:T2:891:VAL:HG13	1.81	0.62
22:T3:851:LYS:HA	22:T3:891:VAL:HG13	1.81	0.62
23:U2:430:PRO:CA	31:c4:458:LYS:HA	2.12	0.62
23:U3:278:GLN:CD	25:W4:188:ASN:O	2.42	0.62
28:Z1:406:ARG:HG2	30:b1:252:ALA:HB1	1.82	0.62
28:Z3:559:GLU:HB3	30:b3:211:ILE:O	1.99	0.62
30:b1:371:HIS:CE1	30:b1:384:ARG:HD2	2.34	0.62
31:c5:158:LEU:O	31:c5:158:LEU:HD23	1.98	0.62
1:A1:1099:GLN:HG3	11:I1:1414:CYS:SG	2.40	0.62
2:A2:782:VAL:N	6:D1:677:GLN:N	2.48	0.62
2:A2:882:SER:HB2	6:D1:604:ASP:OD2	1.99	0.62
2:A2:907:SER:CB	6:D1:600:LYS:O	2.38	0.62
2:A2:970:PHE:CD1	6:D1:192:TYR:CZ	2.66	0.62
2:A2:984:ALA:C	6:D1:498:GLU:HA	2.24	0.62
1:A3:1188:ASN:CB	3:A6:642:ARG:HA	2.28	0.62
1:A3:1192:GLN:N	3:A6:615:LEU:N	2.45	0.62
1:A3:1238:ILE:HD13	3:A6:640:LEU:HD13	1.82	0.62
1:A3:1254:LEU:HA	3:A6:638:GLU:CG	2.29	0.62
1:A3:1270:SER:OG	3:A6:553:ASP:O	2.17	0.62
2:A4:825:ARG:HH11	6:D3:633:LYS:HG3	1.61	0.62
2:A4:855:THR:N	3:A6:168:ASP:O	2.32	0.62
2:A4:876:ARG:CG	6:D3:558:LYS:CA	2.57	0.62
2:A4:893:LEU:CD1	3:A6:175:GLU:CB	2.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:908:LEU:CD2	6:D3:601:PHE:O	2.47	0.62
3:A5:221:SER:CB	5:C2:738:ASP:OD2	2.43	0.62
3:A5:1098:ARG:NE	11:I5:29:GLN:O	2.08	0.62
5:C1:732:LYS:HG2	11:I1:1228:GLU:HG3	1.81	0.62
6:D5:240:ASP:O	31:c3:470:ARG:NH1	2.32	0.62
8:F1:1202:TYR:O	17:O2:252:VAL:N	2.33	0.62
11:I1:885:GLU:OE2	17:O1:249:ARG:CZ	2.48	0.62
11:I1:898:VAL:HG21	17:O1:235:ASN:O	2.00	0.62
11:I1:965:ALA:CB	20:R1:164:PRO:HA	2.29	0.62
11:I1:982:GLN:HG3	15:M1:621:ARG:NH2	2.05	0.62
11:I1:1028:CYS:SG	20:R1:168:LEU:CB	2.85	0.62
11:I1:1032:THR:C	15:M1:627:LEU:HD21	1.97	0.62
11:I1:1034:ASP:CB	16:N1:444:SER:OG	2.48	0.62
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD13	1.69	0.62
11:I2:966:TRP:N	20:R3:154:ALA:CA	2.63	0.62
11:I2:978:LYS:NZ	20:R3:152:LYS:C	2.43	0.62
11:I5:1644:ARG:HD3	12:J5:275:PHE:CZ	2.35	0.62
21:S1:652:VAL:O	21:S2:1156:ILE:O	2.18	0.62
21:S3:1097:LYS:NZ	21:S3:1101:PHE:HE1	1.96	0.62
22:T1:825:ASP:CB	31:c5:23:ARG:HD2	2.23	0.62
22:T3:696:MET:HE2	22:T3:750:ILE:HG21	1.80	0.62
22:T4:917:ASP:HB2	22:T4:918:PRO:HD2	1.82	0.62
23:U3:278:GLN:OE1	25:W4:192:GLN:CA	2.48	0.62
24:V1:378:SER:OG	31:c1:30:PHE:HZ	1.83	0.62
26:X4:515:THR:HG22	26:X4:516:ASN:H	1.65	0.62
28:Z2:527:SER:HA	30:b2:204:GLU:CG	1.88	0.62
28:Z4:540:LEU:CA	30:b4:165:THR:HG23	2.21	0.62
30:b2:371:HIS:CE1	30:b2:384:ARG:HD2	2.34	0.62
2:A2:868:GLN:HE21	6:D1:609:ILE:N	1.97	0.62
2:A2:1126:VAL:HA	3:A5:135:PHE:O	2.00	0.62
2:A2:1131:ILE:CA	3:A5:141:GLY:N	2.62	0.62
2:A2:1150:LEU:CD1	5:C2:731:LYS:HG2	2.30	0.62
1:A3:1186:TRP:HH2	3:A6:637:THR:HG23	1.48	0.62
1:A3:1250:PRO:HD3	3:A6:636:ASN:CG	1.80	0.62
1:A3:1271:ILE:HG12	3:A6:553:ASP:H	1.64	0.62
2:A4:720:LEU:HD13	3:A6:494:PRO:CG	2.29	0.62
2:A4:769:GLU:HG3	3:A6:477:PHE:CE2	2.34	0.62
2:A4:854:VAL:CB	3:A6:171:HIS:ND1	2.60	0.62
2:A4:954:ILE:HB	4:B6:346:LEU:N	2.14	0.62
2:A4:1150:LEU:CD1	5:C4:731:LYS:HG2	2.30	0.62
3:A5:1411:ARG:HE	26:X2:744:MET:C	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1393:THR:HB	28:Z4:910:GLN:O	1.98	0.62
8:F1:1262:HIS:CA	17:O2:259:ASP:HA	2.29	0.62
11:I1:1038:ILE:N	20:R1:169:GLY:HA2	2.10	0.62
11:I1:1603:ARG:CB	11:I2:1738:TYR:O	2.46	0.62
11:I2:882:LYS:C	17:O3:245:GLU:C	2.53	0.62
11:I2:951:LYS:CG	16:N3:404:GLU:CG	2.65	0.62
11:I3:1227:GLU:OE1	11:I3:1227:GLU:N	2.32	0.62
11:I3:1274:HIS:O	26:X1:534:ILE:HG22	2.00	0.62
11:I4:1277:LEU:HG	26:X3:517:ASP:CB	2.19	0.62
23:U2:41:GLU:CG	31:c4:563:ARG:NH1	2.45	0.62
23:U2:391:HIS:CG	31:c4:477:GLU:N	2.62	0.62
23:U2:391:HIS:CB	31:c4:477:GLU:HG2	2.24	0.62
26:X2:308:ASN:CB	34:i:405:TYR:HB3	2.30	0.62
28:Z1:119:VAL:HB	28:Z1:131:LEU:HB2	1.82	0.62
28:Z2:559:GLU:HB3	30:b2:211:ILE:O	1.99	0.62
1:A1:832:ASN:CG	6:D3:298:ASN:CB	2.59	0.62
1:A1:834:GLU:CB	6:D3:302:PRO:HB3	2.24	0.62
2:A2:877:ALA:CA	6:D1:563:GLU:HA	2.30	0.62
2:A2:1019:ARG:NH2	6:D1:237:PRO:HB2	2.14	0.62
2:A4:710:LEU:N	3:A6:480:VAL:HG21	2.13	0.62
2:A4:733:GLY:HA3	3:A6:95:TYR:N	2.15	0.62
2:A4:965:LYS:CE	6:D3:196:ILE:HA	2.27	0.62
2:A4:1053:ARG:O	6:D4:762:ARG:CG	2.37	0.62
3:A5:1300:LEU:CG	28:Z2:838:GLN:CB	2.74	0.62
3:A5:1392:ARG:HH11	28:Z2:866:GLU:CB	2.11	0.62
3:A6:133:LYS:HA	6:D3:604:ASP:N	2.13	0.62
8:F1:1264:ARG:CZ	17:O2:263:GLN:CA	2.71	0.62
11:I1:1043:LEU:CA	16:N1:430:ARG:HD2	2.29	0.62
11:I1:1055:GLU:CB	17:O1:281:ALA:H	2.12	0.62
11:I1:1602:PHE:HD1	11:I2:1666:THR:HG22	1.61	0.62
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG2	0.63	0.62
11:I2:995:SER:N	17:O3:271:GLU:CB	2.45	0.62
11:I2:1109:LEU:HA	17:O3:290:TYR:HH	1.64	0.62
11:I4:1116:ASP:OD1	12:J4:241:THR:HG23	2.00	0.62
11:I5:1227:GLU:OE1	11:I5:1227:GLU:N	2.33	0.62
22:T1:752:ALA:HA	31:c5:58:ARG:HE	0.88	0.62
23:U1:431:ILE:HG12	31:c2:469:SER:C	2.24	0.62
23:U2:398:ILE:HG13	31:c4:535:VAL:CA	2.30	0.62
26:X1:265:ILE:HG21	26:X1:289:ILE:HD11	1.81	0.62
26:X2:170:ASN:O	26:X2:174:GLU:HG3	2.00	0.62
26:X2:308:ASN:ND2	34:i:315:LEU:HD11	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:265:ILE:HG21	26:X3:289:ILE:HD11	1.81	0.62
28:Z2:410:ASN:ND2	30:b2:252:ALA:N	2.47	0.62
28:Z3:528:ILE:C	30:b3:184:SER:OG	1.99	0.62
1:A1:868:GLN:HA	6:D3:280:GLN:HB3	1.81	0.62
1:A1:1332:ARG:C	6:D1:637:LYS:HD3	2.24	0.62
2:A2:879:LEU:CB	6:D1:567:LEU:HD11	2.30	0.62
2:A2:970:PHE:C	6:D1:192:TYR:HE2	2.00	0.62
2:A2:1148:ARG:HB3	3:A5:171:HIS:O	2.00	0.62
1:A3:1098:ARG:NH2	11:I2:1421:ARG:NH2	2.47	0.62
1:A3:1271:ILE:CG1	3:A6:554:GLN:HG2	2.29	0.62
2:A4:610:THR:N	3:A6:103:ARG:HH12	1.97	0.62
2:A4:853:VAL:HB	3:A6:170:THR:CA	2.30	0.62
2:A4:859:GLN:CG	3:A6:131:PRO:CB	2.59	0.62
2:A4:885:LEU:HD22	3:A6:172:PRO:C	1.91	0.62
2:A4:899:THR:C	3:A6:180:GLU:OE2	2.42	0.62
3:A5:1094:ILE:HG23	11:I5:4:LEU:HB2	0.62	0.62
3:A6:446:LEU:HD21	6:D3:721:PRO:HB3	1.82	0.62
6:D7:530:ARG:HH11	11:I3:182:VAL:H	1.47	0.62
9:G1:255:LEU:HA	17:O2:257:ALA:HB3	1.80	0.62
11:I1:945:LEU:HB3	17:O1:259:ASP:HB3	1.81	0.62
11:I1:1036:PRO:CA	16:N1:441:PHE:CE2	2.83	0.62
11:I1:1052:LEU:HA	17:O1:283:ALA:O	2.00	0.62
11:I1:1054:ILE:H	17:O1:282:LYS:CB	2.08	0.62
11:I1:1065:SER:HG	16:N1:430:ARG:HG3	1.64	0.62
11:I1:1072:ASN:CG	16:N1:429:GLU:OE1	2.42	0.62
11:I1:1109:LEU:CD1	17:O1:290:TYR:OH	2.30	0.62
11:I1:1227:GLU:N	11:I1:1227:GLU:OE1	2.32	0.62
11:I2:1106:LYS:O	16:N3:440:GLU:N	2.31	0.62
11:I2:1455:ARG:O	11:I2:1459:ASN:ND2	2.33	0.62
11:I3:1116:ASP:OD1	12:J3:241:THR:HG23	2.00	0.62
11:I4:1227:GLU:OE1	11:I4:1227:GLU:N	2.33	0.62
11:I5:1282:PHE:CZ	29:a2:23[A]:PRO:HG2	2.34	0.62
21:S3:1032:ILE:CD1	21:S3:1051:ALA:HA	2.29	0.62
23:U1:198:GLU:HB2	31:c1:622:ILE:HG12	1.81	0.62
23:U1:213:CYS:SG	24:V1:332:ARG:NH1	2.73	0.62
23:U1:438:GLU:CD	31:c2:541:ARG:HE	2.07	0.62
23:U2:78:VAL:O	31:c4:553:LEU:HD13	1.67	0.62
26:X2:205:ILE:HA	34:i:445:GLN:C	2.24	0.62
27:Y1:81:VAL:HG23	27:Y1:111:LEU:HD13	1.81	0.62
28:Z2:119:VAL:HB	28:Z2:131:LEU:HB2	1.82	0.62
28:Z4:119:VAL:HB	28:Z4:131:LEU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1202:GLU:H	2:A2:729:SER:C	2.08	0.62
2:A2:1131:ILE:C	3:A5:141:GLY:HA3	2.25	0.62
1:A3:1056:PHE:H	6:D3:809:ALA:CB	2.12	0.62
1:A3:1198:GLU:HB3	3:A6:678:LEU:CB	2.30	0.62
1:A3:1225:PRO:CD	2:A4:727:ASN:CB	2.70	0.62
1:A3:1261:TYR:HB3	3:A6:620:GLY:C	2.20	0.62
1:A3:1268:ASP:C	3:A6:553:ASP:O	2.34	0.62
2:A4:90:GLN:NE2	3:A6:427:MET:HB2	2.05	0.62
2:A4:276:GLN:NE2	4:B4:355:PRO:HD3	2.15	0.62
2:A4:675:ALA:HB2	3:A6:508:LEU:HB2	1.81	0.62
2:A4:770:GLY:C	3:A6:477:PHE:CB	2.69	0.62
2:A4:857:LYS:NZ	3:A6:129:ASN:HB2	2.15	0.62
2:A4:873:PRO:HD2	6:D3:569:CYS:HA	1.82	0.62
2:A4:878:LEU:HD21	6:D3:608:ILE:N	2.15	0.62
2:A4:879:LEU:H	6:D3:564:ASN:HB3	1.65	0.62
2:A4:886:PHE:CE1	3:A6:176:LEU:CD2	2.82	0.62
2:A4:892:SER:N	3:A6:232:LEU:H	1.96	0.62
3:A5:153:ILE:HD12	5:C2:739:MET:SD	2.07	0.62
3:A5:160:ILE:HD13	5:C2:743:LEU:CG	2.26	0.62
3:A5:1024:ASP:OD1	11:I5:96:GLU:O	2.18	0.62
3:A6:444:ARG:N	6:D3:719:LEU:HD12	2.14	0.62
3:A6:1375:THR:O	28:Z4:830:LEU:CA	2.48	0.62
11:I1:950:LEU:HD23	16:N1:406:HIS:CD2	1.93	0.62
11:I1:951:LYS:HB3	17:O1:253:LEU:HD21	1.81	0.62
11:I1:952:LEU:HD11	15:M1:599:ILE:CG1	2.22	0.62
11:I1:987:GLY:N	15:M1:614:ASP:N	2.47	0.62
11:I1:1455:ARG:O	11:I1:1459:ASN:ND2	2.33	0.62
11:I2:951:LYS:CG	16:N3:403:VAL:HB	2.28	0.62
11:I2:1031:ALA:HB2	20:R3:168:LEU:HD22	1.77	0.62
11:I2:1045:PHE:HE1	17:O3:279:ILE:HG21	1.63	0.62
17:O4:111:TYR:CD1	18:P4:325:ILE:CD1	2.63	0.62
21:S1:674:LYS:O	21:S2:1145:LYS:CB	2.48	0.62
21:S3:868:ASP:O	21:S3:869:PHE:C	2.43	0.62
21:S4:868:ASP:O	21:S4:869:PHE:C	2.43	0.62
22:T1:671:LYS:HA	22:T1:671:LYS:HE2	1.80	0.62
22:T1:851:LYS:HA	22:T1:891:VAL:HG13	1.81	0.62
22:T2:917:ASP:HB2	22:T2:918:PRO:HD2	1.82	0.62
23:U1:140:PRO:O	31:c1:633:PHE:HE2	1.83	0.62
23:U1:398:ILE:HA	31:c2:476:PRO:CG	2.16	0.62
23:U2:20:LYS:N	31:c4:480:CYS:SG	2.73	0.62
23:U2:23:LYS:HB2	31:c4:484:LEU:HD23	1.76	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:24:ILE:HG13	31:c4:482:LEU:CA	2.30	0.62
24:V3:300:LEU:HD23	24:V3:388:LEU:HD21	1.82	0.62
26:X2:320:SER:HB2	34:i:473:PRO:O	2.00	0.62
27:Y2:81:VAL:HG23	27:Y2:111:LEU:HD13	1.81	0.62
28:Z2:558:LEU:CA	30:b2:236:THR:N	2.29	0.62
28:Z2:560:ASN:HB2	30:b2:211:ILE:HD12	1.80	0.62
28:Z3:561:GLN:CB	30:b3:235:LEU:C	2.61	0.62
28:Z4:555:LYS:HA	30:b4:234:LEU:N	2.12	0.62
34:i:393:VAL:HG13	34:i:407[A]:CYS:SG	2.40	0.62
2:A2:276:GLN:NE2	4:B2:355:PRO:HD3	2.15	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CG	2.47	0.61
2:A4:90:GLN:HE22	3:A6:427:MET:HB2	1.62	0.61
2:A4:542:LEU:C	3:A6:361:ASP:HA	2.24	0.61
2:A4:611:ILE:CG2	3:A6:508:LEU:CG	0.80	0.61
2:A4:652:PRO:HA	3:A6:542:LEU:HD11	1.82	0.61
2:A4:775:LEU:HB3	3:A6:488:MET:C	2.24	0.61
2:A4:799:ASP:HB2	3:A6:330:LEU:O	1.99	0.61
2:A4:859:GLN:HA	3:A6:133:LYS:HB2	1.82	0.61
2:A4:986:THR:HG22	6:D3:504:LYS:CG	1.95	0.61
3:A5:998:SER:O	11:I5:63:PRO:HD3	2.00	0.61
3:A5:1094:ILE:CG2	11:I5:4:LEU:CA	2.74	0.61
3:A5:1367:THR:O	28:Z2:825:TYR:CB	2.48	0.61
3:A6:446:LEU:HD12	6:D3:721:PRO:C	2.24	0.61
3:A6:483:HIS:CB	6:D3:675:ARG:HD2	2.20	0.61
6:D6:649:VAL:O	6:D6:649:VAL:HG12	2.00	0.61
8:F1:1266:MET:N	17:O2:262:ASP:OD2	2.33	0.61
11:I1:26:GLU:N	11:I1:26:GLU:OE1	2.33	0.61
11:I1:956:ILE:CG1	15:M1:599:ILE:HD13	2.30	0.61
11:I1:977:ASN:CG	15:M1:621:ARG:O	2.42	0.61
11:I2:953:LEU:HD11	15:M3:606:LEU:HB3	1.80	0.61
11:I2:954:GLU:CA	16:N3:403:VAL:HG22	2.29	0.61
11:I2:994:ALA:CB	17:O3:268:GLY:O	2.47	0.61
11:I2:1029:LEU:CD2	16:N3:437:VAL:HG21	2.26	0.61
11:I5:421:SER:O	11:I5:425:HIS:ND1	2.33	0.61
11:I5:1360:GLU:OE1	11:I5:1360:GLU:N	2.32	0.61
21:S1:597:ILE:HA	21:S2:1120:PRO:HD2	1.78	0.61
21:S1:682:ASN:O	21:S2:1101:PHE:HZ	1.79	0.61
21:S3:1010:GLU:HA	21:S3:1013:LEU:HG	1.82	0.61
23:U1:22:PHE:CZ	31:c2:559:ILE:HB	2.35	0.61
23:U1:23:LYS:HD2	31:c2:479:ILE:O	1.97	0.61
23:U1:401:PRO:HB3	31:c2:551:LEU:CA	2.22	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:300:LEU:HD23	24:V2:388:LEU:HD21	1.82	0.61
24:V4:300:LEU:HD23	24:V4:388:LEU:HD21	1.82	0.61
26:X2:304:ARG:CZ	34:i:315:LEU:O	2.48	0.61
30:b3:371:HIS:CE1	30:b3:384:ARG:HD2	2.34	0.61
1:A1:1070:ASP:OD2	11:I1:1238:LYS:HG3	2.00	0.61
1:A1:1220:PRO:C	2:A2:645:PHE:C	2.68	0.61
2:A2:911:TYR:CE2	6:D1:555:ARG:NH2	2.68	0.61
2:A2:1126:VAL:HG22	3:A5:135:PHE:HB3	1.78	0.61
1:A3:1187:ASN:OD1	3:A6:619:CYS:CA	2.48	0.61
1:A3:1189:LEU:HD22	3:A6:614:ALA:HB2	0.62	0.61
1:A3:1226:LEU:CG	3:A6:550:VAL:H	2.05	0.61
1:A3:1229:VAL:HG22	3:A6:574:ARG:HG2	1.81	0.61
1:A3:1311:ARG:CZ	3:A6:715:GLU:HG3	2.31	0.61
2:A4:537:ALA:CB	3:A6:365:MET:HB2	2.30	0.61
2:A4:543:GLY:O	3:A6:365:MET:HB2	1.99	0.61
2:A4:728:LYS:CG	3:A6:548:LEU:CD2	2.76	0.61
2:A4:796:GLN:CA	3:A6:249:SER:CB	2.75	0.61
2:A4:870:HIS:HB3	6:D3:551:PHE:CD2	2.34	0.61
2:A4:888:GLN:NE2	3:A6:171:HIS:CE1	2.68	0.61
2:A4:986:THR:HB	6:D3:504:LYS:CE	2.26	0.61
3:A6:442:ARG:NH2	6:D3:741:ILE:N	2.47	0.61
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD3	1.65	0.61
6:D5:500:LYS:HE2	31:c3:472:GLU:HG2	1.80	0.61
6:D7:481:ARG:HB3	11:I3:183:LYS:CE	2.27	0.61
8:F1:1261:TYR:O	17:O2:262:ASP:C	2.42	0.61
11:I1:837:MET:HE2	17:O1:242:ARG:H	1.65	0.61
11:I1:990:GLU:HG3	15:M1:614:ASP:CB	2.25	0.61
11:I1:1739:GLU:CB	11:I2:1540:LYS:NZ	2.64	0.61
11:I2:849:LEU:HD13	17:O3:247:TRP:CE3	2.35	0.61
11:I2:884:LEU:O	16:N3:397:GLU:N	2.33	0.61
11:I2:962:ILE:CG2	20:R3:166:LEU:O	2.23	0.61
11:I2:963:LEU:CD2	20:R3:168:LEU:CD1	2.77	0.61
11:I2:978:LYS:HE2	20:R3:153:GLN:C	2.24	0.61
11:I2:988:GLU:N	15:M3:613:ASP:N	2.47	0.61
11:I2:990:GLU:N	15:M3:611:LYS:HB3	2.15	0.61
11:I4:421:SER:O	11:I4:425:HIS:ND1	2.33	0.61
11:I4:1275:SER:O	26:X3:518:ASP:CA	2.49	0.61
21:S1:868:ASP:O	21:S1:869:PHE:C	2.43	0.61
22:T2:885:ARG:HH11	22:T2:885:ARG:CG	2.11	0.61
22:T4:851:LYS:HA	22:T4:891:VAL:HG13	1.81	0.61
23:U1:431:ILE:HG21	31:c2:470:ARG:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:522:ASN:OD1	30:b1:241:PRO:CB	2.47	0.61
28:Z2:406:ARG:HG2	30:b2:252:ALA:HB1	1.81	0.61
28:Z3:400:LYS:HB3	30:b3:205:ARG:HH21	1.64	0.61
28:Z3:406:ARG:HG2	30:b3:252:ALA:HB1	1.81	0.61
1:A1:1392:ARG:O	2:A2:888:GLN:O	2.18	0.61
2:A2:987:LYS:HE2	6:D1:555:ARG:N	2.14	0.61
2:A2:1160:GLN:NE2	3:A5:165:PHE:HA	2.08	0.61
1:A3:1166:LEU:HA	3:A6:595:GLU:N	2.15	0.61
1:A3:1201:ARG:HB2	3:A6:92:ASP:CG	2.19	0.61
1:A3:1249:PHE:HD1	3:A6:584:GLY:HA2	0.83	0.61
2:A4:598:VAL:HG21	3:A6:504:PRO:CD	2.28	0.61
2:A4:672:ARG:HB3	3:A6:96:PRO:CG	2.16	0.61
2:A4:682:ARG:NH2	3:A6:104:PRO:O	2.25	0.61
2:A4:788:ARG:HB3	3:A6:145:THR:CB	2.30	0.61
2:A4:789:LEU:HD23	3:A6:146:LYS:N	2.15	0.61
2:A4:917:LEU:HD11	3:A6:175:GLU:CB	2.28	0.61
3:A5:220:VAL:C	5:C2:738:ASP:HB3	2.25	0.61
3:A5:1033:GLN:OE1	11:I5:71:GLU:CA	2.30	0.61
3:A5:1391:ARG:CZ	28:Z2:868:GLN:HA	2.30	0.61
3:A5:1406:GLY:N	28:Z2:918:PHE:N	2.37	0.61
3:A6:484:PRO:HD2	6:D3:672:GLU:CB	2.29	0.61
11:I1:833:PHE:CE2	17:O1:238:ALA:CB	2.79	0.61
11:I1:937:TYR:HB2	15:M1:602:MET:HE1	1.82	0.61
11:I1:1046:HIS:H	17:O1:283:ALA:CB	2.13	0.61
11:I1:1665:LEU:CB	11:I2:1667:GLN:CD	2.72	0.61
11:I2:885:GLU:HA	16:N3:397:GLU:CA	2.29	0.61
11:I2:990:GLU:O	17:O3:272:SER:CA	2.47	0.61
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG21	2.14	0.61
11:I2:1110:SER:CB	16:N3:435:ALA:HA	2.30	0.61
11:I3:26:GLU:N	11:I3:26:GLU:OE1	2.33	0.61
21:S1:597:ILE:CA	21:S2:1119:LEU:N	2.63	0.61
23:U2:45:ALA:CB	31:c4:470:ARG:C	2.73	0.61
23:U3:213:CYS:SG	24:V3:332:ARG:NH1	2.73	0.61
26:X2:192:LEU:CD1	34:i:442:SER:CA	2.77	0.61
28:Z4:400:LYS:HB3	30:b4:205:ARG:HH21	1.64	0.61
28:Z4:561:GLN:NE2	30:b4:237:LEU:CD1	2.60	0.61
30:b2:55:GLY:H	30:b2:384:ARG:HH11	1.46	0.61
32:g:198:VAL:HG13	32:g:207:LEU:HD11	1.83	0.61
1:A1:1224:PRO:HD2	2:A2:731:ILE:HB	1.82	0.61
1:A1:1226:LEU:CA	2:A2:728:LYS:HB3	2.30	0.61
1:A1:1399:ARG:HE	2:A2:887:GLU:HB2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:866:SER:H	6:D1:605:THR:HA	1.59	0.61
2:A2:870:HIS:ND1	6:D1:566:PHE:CG	2.67	0.61
2:A2:1143:LEU:C	3:A5:129:ASN:HB3	2.26	0.61
2:A2:1157:TYR:CE2	3:A5:167:TRP:CD1	2.88	0.61
1:A3:1083:SER:O	6:D3:798:MET:CA	2.49	0.61
1:A3:1168:LEU:N	3:A6:594:LEU:CD2	2.50	0.61
1:A3:1201:ARG:C	2:A4:732:GLN:HA	2.25	0.61
1:A3:1223:GLU:O	3:A6:496:THR:O	2.17	0.61
1:A3:1244:LEU:CG	3:A6:633:MET:HE1	2.27	0.61
1:A3:1333:ARG:C	6:D3:637:LYS:HZ3	2.05	0.61
2:A4:872:ALA:HB1	6:D3:565:MET:HE2	1.66	0.61
2:A4:889:VAL:CG2	3:A6:175:GLU:N	2.64	0.61
2:A4:898:LEU:C	4:B6:342:ARG:O	2.42	0.61
6:D2:649:VAL:HG12	6:D2:649:VAL:O	2.00	0.61
8:F1:1205:TRP:HB3	17:O2:254:ARG:HG2	1.82	0.61
11:I1:883:ALA:CB	17:O1:246:LEU:CA	2.43	0.61
11:I1:937:TYR:O	17:O1:258:GLU:HA	2.00	0.61
11:I1:948:ALA:H	17:O1:256:TYR:HB3	1.66	0.61
11:I1:958:THR:N	16:N1:399:HIS:CD2	2.67	0.61
11:I1:961:ARG:NH1	16:N1:389:PHE:HA	2.15	0.61
11:I2:926:SER:HA	20:R3:155:GLU:HG2	1.82	0.61
11:I2:948:ALA:HB2	17:O3:256:TYR:HB3	0.65	0.61
11:I2:995:SER:CB	17:O3:267:ALA:O	2.49	0.61
11:I2:1030:ARG:CD	20:R3:175:GLN:OE1	2.36	0.61
11:I3:1271:GLU:O	26:X1:525:ILE:HB	1.99	0.61
11:I4:26:GLU:N	11:I4:26:GLU:OE1	2.33	0.61
23:U4:213:CYS:SG	24:V4:332:ARG:NH1	2.73	0.61
26:X2:295:TYR:CD2	34:i:417:GLY:CA	2.83	0.61
26:X2:300:SER:CB	34:i:367:GLU:HG2	2.31	0.61
26:X2:336:LEU:HD22	34:i:478:PRO:CG	2.30	0.61
28:Z2:400:LYS:HB3	30:b2:205:ARG:HH21	1.64	0.61
28:Z3:534:ASP:CG	30:b3:183:LEU:H	2.08	0.61
1:A1:1220:PRO:O	2:A2:645:PHE:O	2.17	0.61
1:A1:1398:LYS:O	2:A2:884:ARG:NH1	2.33	0.61
2:A2:879:LEU:H	6:D1:567:LEU:HD12	1.65	0.61
1:A3:1162:ASN:C	3:A6:649:GLY:H	2.08	0.61
2:A4:75:LEU:HD23	3:A6:324:ARG:HG3	1.82	0.61
2:A4:679:TYR:CB	3:A6:101:TYR:HD2	2.12	0.61
2:A4:679:TYR:C	3:A6:102:CYS:SG	2.82	0.61
2:A4:718:GLU:CB	3:A6:121:PRO:HG2	2.26	0.61
2:A4:780:GLU:OE1	3:A6:565:THR:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:792:VAL:HB	3:A6:187:THR:CB	2.30	0.61
2:A4:798:LYS:HD2	3:A6:314:TRP:CE2	2.33	0.61
2:A4:799:ASP:N	3:A6:315:LEU:O	2.27	0.61
2:A4:802:TYR:OH	3:A6:467:LEU:C	2.39	0.61
2:A4:882:SER:OG	3:A6:133:LYS:CD	2.49	0.61
2:A4:951:GLU:CD	3:A6:235:TYR:CE2	2.78	0.61
3:A5:1094:ILE:HG12	11:I5:4:LEU:HD12	1.79	0.61
3:A5:1365:VAL:O	28:Z2:841:ALA:CB	2.36	0.61
3:A5:1374:ALA:CB	28:Z2:823:ALA:CA	2.21	0.61
3:A6:1389:SER:HA	28:Z4:906:GLN:O	2.00	0.61
11:I1:896:PRO:CA	17:O1:232:LYS:C	2.73	0.61
11:I1:967:SER:HB3	15:M1:625:GLY:N	2.14	0.61
11:I1:1014:ASN:HB3	16:N1:414:ALA:N	2.12	0.61
11:I1:1017:VAL:H	16:N1:411:GLN:CG	2.11	0.61
11:I1:1644:ARG:HD3	12:J1:275:PHE:CZ	2.35	0.61
11:I2:26:GLU:N	11:I2:26:GLU:OE1	2.33	0.61
11:I2:890:TYR:CB	17:O3:242:ARG:HG3	2.31	0.61
11:I2:1043:LEU:HA	16:N3:430:ARG:CG	2.30	0.61
11:I2:1045:PHE:C	17:O3:280:GLU:HA	2.26	0.61
11:I2:1100:ILE:C	16:N3:433:GLU:OE2	2.42	0.61
11:I3:1433:THR:HG21	12:J3:270:ARG:HD3	1.81	0.61
11:I5:26:GLU:OE1	11:I5:26:GLU:N	2.33	0.61
11:I5:1236:TYR:HE1	29:a2:24[B]:GLY:CA	2.10	0.61
21:S1:1010:GLU:HA	21:S1:1013:LEU:HG	1.83	0.61
21:S1:1032:ILE:CD1	21:S1:1051:ALA:HA	2.29	0.61
23:U2:391:HIS:HD2	31:c4:476:PRO:O	1.83	0.61
23:U3:279:TYR:CZ	25:W4:190:ASP:OD1	2.53	0.61
24:V1:283:GLU:OE1	31:c1:14:SER:HB2	2.00	0.61
24:V2:682:ALA:HB2	31:c2:51:THR:C	2.26	0.61
26:X2:292:LEU:HA	34:i:448:PHE:HE2	1.65	0.61
28:Z1:531:LYS:HD3	30:b1:183:LEU:CB	1.97	0.61
2:A2:779:ASP:CG	6:D1:679:ILE:O	2.42	0.61
2:A2:965:LYS:CE	6:D1:197:VAL:N	2.59	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CB	2.49	0.61
2:A2:1145:GLY:HA3	3:A5:129:ASN:HD21	1.57	0.61
2:A2:1148:ARG:HB2	3:A5:174:PRO:HD3	1.77	0.61
2:A2:1156:ASP:HA	3:A5:166:LEU:C	2.21	0.61
1:A3:1158:ALA:C	3:A6:647:GLU:HB3	2.22	0.61
1:A3:1192:GLN:N	3:A6:615:LEU:H	1.97	0.61
2:A4:806:PHE:HB3	3:A6:470:ARG:HB3	1.82	0.61
2:A4:824:ASN:HB2	3:A6:158:ALA:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:881:GLU:O	3:A6:173:ASN:CG	2.43	0.61
2:A4:955:CYS:CB	4:B6:345:LYS:HB2	2.30	0.61
2:A4:987:LYS:CE	6:D3:553:PHE:O	2.44	0.61
3:A5:234:LEU:HD11	5:C2:740:ARG:HG3	1.80	0.61
3:A5:1050:TYR:CZ	11:I5:70:GLU:HB2	2.35	0.61
3:A6:1397:LEU:HD12	28:Z4:913:ILE:O	2.01	0.61
11:I1:931:VAL:HG13	15:M1:604:ASN:OD1	1.99	0.61
11:I1:1666:THR:HG21	11:I2:1602:PHE:HB3	1.83	0.61
11:I2:840:LEU:HG	17:O3:244:GLU:HG2	1.80	0.61
11:I2:938:CYS:SG	15:M3:606:LEU:CG	2.89	0.61
11:I2:1031:ALA:O	20:R3:173:LEU:CA	2.45	0.61
11:I2:1543:LEU:O	12:J1:300:ILE:CB	2.35	0.61
21:S4:1010:GLU:HA	21:S4:1013:LEU:HG	1.83	0.61
22:T3:875:LEU:HD13	22:T3:919:LEU:HA	1.83	0.61
22:T3:917:ASP:HB2	22:T3:918:PRO:HD2	1.82	0.61
23:U1:440:ASP:C	31:c2:463:HIS:CD2	2.78	0.61
23:U2:395:CYS:O	31:c4:554:LEU:C	2.43	0.61
23:U2:439:SER:CB	31:c4:428:ARG:HD2	2.31	0.61
24:V1:519:LEU:O	24:V1:529:ASN:ND2	2.34	0.61
24:V4:519:LEU:O	24:V4:529:ASN:ND2	2.34	0.61
27:Y3:42:THR:O	27:Y3:44:ASN:N	2.31	0.61
28:Z1:400:LYS:HB3	30:b1:205:ARG:HH21	1.64	0.61
28:Z4:527:SER:HA	30:b4:204:GLU:OE1	1.50	0.61
29:a1:214[B]:THR:CG2	29:a1:252[B]:MET:HE2	2.31	0.61
33:h:268:CYS:SG	33:h:270:MET:HE1	2.41	0.61
1:A1:1226:LEU:N	2:A2:725:GLU:OE1	2.34	0.61
2:A2:227:SER:OG	6:D1:711:PHE:CD2	2.47	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CA	2.31	0.61
2:A2:1126:VAL:C	3:A5:139:ASN:HB2	2.13	0.61
2:A2:1131:ILE:N	3:A5:140:ALA:N	2.48	0.61
2:A2:1157:TYR:CE1	3:A5:134:VAL:HG21	2.36	0.61
1:A3:1233:GLN:HG2	3:A6:578:ILE:CG2	2.31	0.61
1:A3:1236:GLN:OE1	3:A6:578:ILE:CG2	2.48	0.61
1:A3:1243:SER:N	3:A6:585:ASN:HA	2.14	0.61
1:A3:1249:PHE:HA	3:A6:637:THR:H	1.64	0.61
2:A4:617:VAL:HG23	3:A6:509:LYS:HZ2	1.66	0.61
2:A4:669:LEU:CA	3:A6:542:LEU:HG	2.30	0.61
2:A4:681:THR:CB	3:A6:431:PHE:CD1	2.77	0.61
2:A4:689:LYS:HG3	3:A6:336:ILE:CD1	2.25	0.61
2:A4:720:LEU:HD21	3:A6:494:PRO:HB3	1.78	0.61
2:A4:860:GLU:HG3	3:A6:135:PHE:CD2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1019:ARG:NH1	6:D3:238:ALA:O	2.34	0.61
2:A4:1055:ARG:CG	6:D4:762:ARG:HA	2.29	0.61
3:A6:1413:SER:HB2	28:Z4:994:ILE:CB	2.29	0.61
6:D4:649:VAL:HG12	6:D4:649:VAL:O	2.00	0.61
6:D7:179:ASP:OD2	11:I3:50:ALA:N	2.34	0.61
8:F1:1137:GLN:CD	17:O2:249:ARG:N	2.13	0.61
9:G1:270:ARG:HB2	16:N2:414:ALA:O	1.97	0.61
9:G2:257:THR:HG23	17:O4:257:ALA:H	1.63	0.61
11:I1:850:ILE:HG21	15:M1:594:LYS:HG2	1.82	0.61
11:I1:880:MET:HG2	17:O1:247:TRP:CA	2.15	0.61
11:I1:881:ILE:H	17:O1:249:ARG:CB	2.00	0.61
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD2	2.64	0.61
11:I2:881:ILE:HG22	17:O3:249:ARG:CD	2.29	0.61
11:I2:980:ILE:HA	15:M3:618:GLN:N	2.16	0.61
11:I2:990:GLU:C	17:O3:272:SER:N	2.59	0.61
11:I2:997:SER:CB	17:O3:270:THR:HG22	2.26	0.61
11:I2:1021:ILE:HG13	16:N3:410:MET:CG	2.31	0.61
11:I2:1045:PHE:CZ	16:N3:431:VAL:O	2.52	0.61
11:I2:1116:ASP:OD1	12:J2:241:THR:HG23	2.00	0.61
11:I2:1543:LEU:CD1	12:J1:300:ILE:O	2.48	0.61
11:I3:1268:LYS:O	26:X1:525:ILE:HA	2.01	0.61
17:O3:151:LEU:CD2	18:P3:325:ILE:HG13	0.69	0.61
21:S1:596:ILE:C	21:S2:1120:PRO:HD2	2.25	0.61
21:S2:1010:GLU:HA	21:S2:1013:LEU:HG	1.82	0.61
22:T1:825:ASP:OD1	31:c5:55:VAL:HG12	2.01	0.61
23:U1:23:LYS:O	31:c2:483:ASP:OD1	2.18	0.61
23:U1:393:ALA:O	31:c2:552:ARG:NE	2.34	0.61
23:U2:213:CYS:SG	24:V2:332:ARG:NH1	2.73	0.61
23:U2:399:ILE:CG2	31:c4:554:LEU:HA	2.14	0.61
23:U3:320:HIS:CE1	24:V4:641:MET:O	2.54	0.61
24:V2:519:LEU:O	24:V2:529:ASN:ND2	2.34	0.61
24:V2:685:LEU:CB	31:c2:54:ASN:CG	2.70	0.61
28:Z4:406:ARG:HG2	30:b4:252:ALA:HB1	1.82	0.61
30:b3:200:LEU:HD11	30:b3:212:PHE:HD2	1.63	0.61
32:g:332:GLN:HB2	32:g:334:ASP:HB3	1.82	0.61
2:A2:781:ARG:NH2	6:D1:679:ILE:HD12	2.15	0.61
2:A2:988:ARG:HB3	6:D1:500:LYS:CE	2.21	0.61
2:A2:1155:ASN:CG	5:C2:735:ILE:HA	2.25	0.61
1:A3:1099:GLN:CA	11:I2:1414:CYS:O	2.48	0.61
2:A4:548:LEU:HB2	3:A6:105:GLY:HA3	1.79	0.61
2:A4:806:PHE:CD2	3:A6:470:ARG:HB2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:827:ILE:HG22	3:A6:135:PHE:N	2.16	0.61
2:A4:947:LYS:HZ2	3:A6:235:TYR:HD2	0.63	0.61
3:A6:446:LEU:O	6:D3:730:ARG:NH1	2.33	0.61
11:I1:797:LEU:HB3	17:O1:245:GLU:CD	2.25	0.61
11:I1:896:PRO:HA	17:O1:232:LYS:C	2.26	0.61
11:I1:931:VAL:CG1	15:M1:600:ASN:HB3	2.30	0.61
11:I1:952:LEU:CG	16:N1:400:LEU:HD22	2.20	0.61
11:I1:1049:LEU:N	15:M1:622:VAL:CG1	2.63	0.61
11:I2:840:LEU:CG	17:O3:247:TRP:HD1	2.13	0.61
11:I2:935:GLY:HA2	15:M3:606:LEU:C	2.25	0.61
11:I2:947:LEU:HD12	17:O3:260:LEU:HD21	1.77	0.61
11:I2:1020:ALA:HB3	16:N3:410:MET:CA	2.30	0.61
11:I4:1274:HIS:O	26:X3:518:ASP:O	2.18	0.61
11:I5:1433:THR:HG21	12:J5:270:ARG:HD3	1.82	0.61
17:O4:110:LEU:HB2	18:P4:321:ILE:HB	1.74	0.61
21:S4:1124:ASP:O	21:S4:1127:GLN:N	2.32	0.61
23:U1:24:ILE:HG21	31:c2:471:LEU:HD21	1.33	0.61
23:U2:39:ILE:C	31:c4:556:GLN:HG3	1.73	0.61
23:U2:363:VAL:HB	31:c4:545:PRO:CG	2.31	0.61
24:V1:283:GLU:OE1	31:c1:14:SER:CB	2.49	0.61
26:X2:197:VAL:HG11	34:i:366:PHE:CD2	2.02	0.61
26:X2:361:LEU:HD22	34:i:441:LEU:CG	2.30	0.61
26:X4:170:ASN:O	26:X4:174:GLU:HG3	2.00	0.61
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB1	1.67	0.61
1:A1:870:HIS:CA	6:D3:279:HIS:CB	2.73	0.61
1:A3:1204:TRP:CH2	3:A6:95:TYR:O	2.53	0.61
1:A3:1238:ILE:CG2	3:A6:586:CYS:HB2	2.13	0.61
1:A3:1389:SER:HB2	3:A6:224:PRO:CB	2.05	0.61
2:A4:795:GLN:C	3:A6:250:PHE:CE2	2.76	0.61
2:A4:819:VAL:HG21	3:A6:567:VAL:HG22	1.82	0.61
2:A4:892:SER:C	3:A6:155:TYR:CE2	2.79	0.61
3:A5:165:PHE:HB2	5:C2:743:LEU:HD13	1.82	0.61
3:A5:232:LEU:HD21	5:C2:739:MET:C	2.25	0.61
3:A5:1031:TYR:H	11:I5:67:LYS:HB3	1.63	0.61
3:A5:1405:LEU:CA	28:Z2:918:PHE:N	2.60	0.61
6:D5:237:PRO:HG2	31:c3:476:PRO:HD3	1.82	0.61
11:I1:932:VAL:C	15:M1:601:ASP:O	2.44	0.61
11:I1:937:TYR:HD2	15:M1:602:MET:SD	2.23	0.61
11:I2:916:ALA:O	15:M3:589:GLY:HA3	2.01	0.61
11:I2:1036:PRO:HB3	17:O3:287:LEU:HD11	1.82	0.61
11:I2:1051:LYS:CD	17:O3:285:LYS:HD2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1055:GLU:O	17:O3:277:GLU:C	2.44	0.61
11:I2:1068:HIS:O	16:N3:429:GLU:OE1	2.18	0.61
11:I2:1108:PRO:C	17:O3:290:TYR:OH	2.43	0.61
11:I2:1114:VAL:CG2	16:N3:435:ALA:H	2.10	0.61
11:I2:1433:THR:HG21	12:J2:270:ARG:HD3	1.82	0.61
11:I3:421:SER:O	11:I3:425:HIS:ND1	2.33	0.61
11:I4:1272:TYR:OH	29:a3:24[A]:GLY:CA	2.49	0.61
21:S3:596:ILE:CB	21:S4:1155:GLN:CG	2.74	0.61
22:T1:755:GLU:C	31:c5:58:ARG:HH12	2.09	0.61
23:U2:399:ILE:CD1	31:c4:557:HIS:HB2	2.30	0.61
24:V1:378:SER:OG	31:c1:30:PHE:CZ	2.53	0.61
24:V3:519:LEU:O	24:V3:529:ASN:ND2	2.34	0.61
26:X1:515:THR:HG22	26:X1:516:ASN:H	1.65	0.61
26:X2:300:SER:N	34:i:367:GLU:C	2.58	0.61
26:X2:369:GLU:CG	34:i:428:LEU:HD21	0.50	0.61
26:X2:515:THR:HG22	26:X2:516:ASN:H	1.65	0.61
30:b1:160:VAL:HB	30:b1:187:GLY:HA3	1.83	0.61
30:b2:160:VAL:HB	30:b2:187:GLY:HA3	1.83	0.61
1:A1:1052:THR:HA	6:D1:812:VAL:CG1	2.31	0.61
1:A1:1197:ALA:HB1	2:A2:728:LYS:HG2	1.83	0.61
1:A3:862:LEU:HD11	1:A3:904:GLN:HB3	1.83	0.61
1:A3:1021:LEU:HD11	6:D3:819:ASN:CG	2.24	0.61
1:A3:1257:VAL:CG1	3:A6:618:ALA:O	2.49	0.61
2:A4:676:LEU:O	3:A6:98:LEU:HD12	2.00	0.61
2:A4:710:LEU:O	3:A6:478:ASP:HB3	2.01	0.61
2:A4:720:LEU:HD13	3:A6:494:PRO:HG3	1.82	0.61
2:A4:760:LEU:CD1	3:A6:388:GLU:CD	2.43	0.61
3:A5:175:GLU:OE2	5:C2:735:ILE:HA	2.01	0.61
9:G1:263:MET:SD	16:N2:411:GLN:HB3	2.41	0.61
9:G2:258:LYS:CG	17:O4:259:ASP:OD2	2.48	0.61
11:I1:936:LYS:HG2	15:M1:609:GLY:HA3	1.82	0.61
11:I1:937:TYR:HD2	15:M1:602:MET:CE	2.14	0.61
11:I1:957:SER:OG	16:N1:399:HIS:NE2	2.27	0.61
11:I1:965:ALA:HB3	20:R1:164:PRO:C	2.25	0.61
11:I1:1021:ILE:CD1	16:N1:410:MET:CE	2.79	0.61
11:I1:1665:LEU:HD23	11:I2:1667:GLN:C	2.26	0.61
11:I2:944:GLU:O	17:O3:256:TYR:C	2.08	0.61
11:I2:945:LEU:CD1	17:O3:255:GLY:CA	2.79	0.61
11:I3:1455:ARG:O	11:I3:1459:ASN:ND2	2.33	0.61
17:O4:107:THR:HG23	18:P4:321:ILE:HD12	1.76	0.61
21:S3:601:LEU:CA	21:S4:1156:ILE:CB	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:24:ILE:CD1	31:c2:467:GLU:CG	2.69	0.61
24:V1:300:LEU:HD23	24:V1:388:LEU:HD21	1.82	0.61
26:X2:313:LEU:C	34:i:478:PRO:HB3	2.25	0.61
28:Z3:407:GLY:O	30:b3:251:ILE:HG12	2.01	0.61
2:A2:235:TYR:HE1	4:B2:347:LEU:CB	2.12	0.60
2:A2:864:ARG:HD3	6:D1:610:ASN:N	2.16	0.60
2:A2:973:GLU:CB	6:D1:192:TYR:CZ	2.83	0.60
2:A2:982:THR:HA	6:D1:528:PHE:CE2	2.36	0.60
1:A3:1223:GLU:CB	2:A4:676:LEU:HD12	2.03	0.60
1:A3:1226:LEU:O	3:A6:548:LEU:HD23	2.01	0.60
1:A3:1227:PRO:HD3	3:A6:549:ALA:CA	2.19	0.60
1:A3:1325:MET:HG2	3:A6:126:ARG:NH2	2.05	0.60
1:A3:1392:ARG:N	3:A6:225:THR:HB	2.15	0.60
2:A4:577:ASP:CA	3:A6:453:SER:OG	2.48	0.60
2:A4:682:ARG:CG	3:A6:432:VAL:N	2.62	0.60
2:A4:713:ILE:H	3:A6:462:LEU:CG	2.13	0.60
2:A4:801:THR:HA	3:A6:379:VAL:C	2.25	0.60
2:A4:947:LYS:CD	3:A6:235:TYR:CZ	2.64	0.60
3:A5:1024:ASP:C	11:I5:68:ILE:CD1	2.71	0.60
6:D5:649:VAL:HG12	6:D5:649:VAL:O	2.01	0.60
8:F2:1088:GLU:CD	17:O4:247:TRP:O	2.44	0.60
11:I1:914:ASN:HB3	15:M1:586:ASP:N	2.00	0.60
11:I1:920:PHE:O	15:M1:592:LEU:C	2.43	0.60
11:I1:927:HIS:NE2	15:M1:594:LYS:CA	2.58	0.60
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HB3	2.16	0.60
11:I2:849:LEU:HD12	17:O3:247:TRP:CZ3	2.36	0.60
11:I2:887:GLN:CA	17:O3:242:ARG:HB3	2.15	0.60
11:I2:938:CYS:O	17:O3:261:LYS:O	2.18	0.60
11:I2:955:LYS:CA	16:N3:399:HIS:O	2.37	0.60
11:I2:988:GLU:N	11:I2:988:GLU:OE1	2.34	0.60
11:I5:408:PRO:O	11:I5:409:SER:OG	2.16	0.60
17:O3:158:GLU:CG	18:P3:315:GLU:C	2.66	0.60
17:O4:111:TYR:N	18:P1:278:ASN:HB3	2.15	0.60
18:P1:277:PRO:HB3	18:P4:323:GLN:N	2.08	0.60
21:S1:663:LEU:HA	21:S2:1150:TYR:O	2.01	0.60
21:S3:932:HIS:O	21:S3:933:GLU:HB2	2.01	0.60
23:U2:431:ILE:CG1	31:c4:481:ILE:N	2.64	0.60
24:V1:339:LEU:N	31:c1:627:ASP:HB2	2.16	0.60
26:X2:369:GLU:OE1	34:i:434:ASP:CA	2.49	0.60
28:Z2:558:LEU:HA	30:b2:236:THR:H	1.60	0.60
28:Z3:561:GLN:HG3	30:b3:235:LEU:C	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a2:214[B]:THR:CG2	29:a2:252[B]:MET:HE2	2.31	0.60
30:b4:160:VAL:HB	30:b4:187:GLY:HA3	1.83	0.60
1:A1:1197:ALA:CA	2:A2:728:LYS:HZ2	2.12	0.60
2:A2:825:ARG:NH1	6:D1:679:ILE:HD11	2.15	0.60
2:A2:825:ARG:HH11	6:D1:633:LYS:HD2	1.65	0.60
2:A2:965:LYS:HE3	6:D1:195:LYS:O	2.01	0.60
2:A2:965:LYS:O	6:D1:196:ILE:HG23	2.00	0.60
2:A2:989:MSE:HE3	6:D1:239:THR:O	2.00	0.60
2:A2:1023:ILE:O	2:A2:1024:ASP:CB	2.48	0.60
2:A2:1126:VAL:N	3:A5:135:PHE:HB3	2.17	0.60
1:A3:1202:GLU:CG	3:A6:91:LEU:CA	2.78	0.60
1:A3:1389:SER:HB2	3:A6:224:PRO:HA	0.62	0.60
2:A4:572:ARG:O	3:A6:454:GLN:CD	2.33	0.60
2:A4:688:TRP:O	3:A6:381:LEU:HD23	2.00	0.60
2:A4:692:VAL:CA	3:A6:466:ALA:O	2.49	0.60
2:A4:717:VAL:HG21	3:A6:476:PHE:HB2	1.80	0.60
2:A4:724:LEU:CG	3:A6:496:THR:N	2.45	0.60
2:A4:874:VAL:HG12	6:D3:608:ILE:HG22	1.82	0.60
2:A4:983:LEU:HD13	6:D3:553:PHE:HB3	1.78	0.60
3:A6:442:ARG:NE	6:D3:692:LEU:HG	2.15	0.60
9:G1:254:ASN:HD21	17:O2:261:LYS:HE2	1.66	0.60
9:G1:256:GLN:CB	16:N2:403:VAL:CG1	2.80	0.60
9:G1:266:ASP:C	16:N2:414:ALA:C	2.68	0.60
11:I1:899:LEU:HB3	17:O1:228:GLN:O	2.01	0.60
11:I1:915:ALA:CB	15:M1:582:THR:C	2.73	0.60
11:I1:957:SER:HB2	20:R1:168:LEU:CA	2.31	0.60
11:I2:790:LEU:HD22	17:O3:251:ILE:CD1	2.28	0.60
11:I2:890:TYR:CA	17:O3:238:ALA:C	2.69	0.60
11:I2:955:LYS:HE3	16:N3:397:GLU:O	2.01	0.60
11:I4:811:SER:O	26:X3:497:ARG:HD2	2.01	0.60
11:I4:1455:ARG:O	11:I4:1459:ASN:ND2	2.33	0.60
22:T1:752:ALA:N	31:c5:58:ARG:HE	1.97	0.60
24:V1:339:LEU:HD22	31:c1:627:ASP:CA	2.32	0.60
24:V1:346:THR:HG22	31:c1:526:GLU:CG	2.29	0.60
26:X2:286:SER:O	34:i:492:TRP:CE3	2.37	0.60
26:X2:296:PRO:CB	34:i:447:CYS:SG	2.81	0.60
26:X4:240:PHE:O	26:X4:241:GLU:HG3	2.01	0.60
28:Z3:410:ASN:HD22	30:b3:252:ALA:CA	2.14	0.60
28:Z3:555:LYS:HG3	30:b3:233:TRP:HA	1.84	0.60
2:A2:782:VAL:HA	6:D1:677:GLN:HA	1.83	0.60
2:A2:872:ALA:HB1	6:D1:565:MET:CE	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1086:LYS:CD	6:D3:798:MET:O	2.49	0.60
1:A3:1165:ASP:CB	3:A6:594:LEU:HD11	2.10	0.60
1:A3:1189:LEU:HD12	3:A6:641:ALA:CB	2.30	0.60
1:A3:1197:ALA:H	3:A6:612:ALA:HB3	1.66	0.60
1:A3:1224:PRO:N	3:A6:500:LYS:HB2	1.86	0.60
1:A3:1225:PRO:HD3	2:A4:727:ASN:HB2	1.84	0.60
1:A3:1253:SER:HB2	3:A6:635:ARG:CA	2.32	0.60
2:A4:80:LYS:O	3:A6:384:ILE:O	2.09	0.60
2:A4:88:THR:HG22	3:A6:431:PHE:HB3	1.82	0.60
2:A4:687:LEU:HD11	3:A6:476:PHE:CE1	2.36	0.60
2:A4:801:THR:N	3:A6:319:TYR:HH	1.97	0.60
2:A4:857:LYS:CD	3:A6:129:ASN:CB	2.66	0.60
2:A4:859:GLN:CB	3:A6:131:PRO:O	2.42	0.60
2:A4:861:GLN:C	3:A6:132:ASP:HB3	2.24	0.60
2:A4:880:ALA:CA	6:D3:558:LYS:CE	2.67	0.60
2:A4:896:ALA:N	3:A6:179:TYR:CB	2.62	0.60
2:A4:951:GLU:OE1	3:A6:233:THR:OG1	2.19	0.60
2:A4:984:ALA:CA	6:D3:498:GLU:OE2	2.24	0.60
3:A5:1368:GLN:HB2	28:Z2:841:ALA:C	2.26	0.60
3:A6:442:ARG:NE	6:D3:692:LEU:CG	2.64	0.60
3:A6:523:ASN:HD22	6:D3:635:ALA:CB	2.14	0.60
6:D3:649:VAL:HG12	6:D3:649:VAL:O	2.00	0.60
11:I1:896:PRO:HD3	17:O1:233:THR:HG23	1.81	0.60
11:I1:931:VAL:HG13	15:M1:604:ASN:HB2	1.82	0.60
11:I1:967:SER:OG	15:M1:628:ALA:HB2	2.01	0.60
11:I1:1017:VAL:HG13	17:O1:260:LEU:HD21	1.82	0.60
11:I1:1020:ALA:CB	16:N1:406:HIS:O	2.49	0.60
11:I2:899:LEU:HD13	17:O3:230:ILE:O	1.93	0.60
11:I2:978:LYS:HZ1	20:R3:153:GLN:C	2.09	0.60
11:I2:1035:GLN:HG3	15:M3:622:VAL:O	2.02	0.60
11:I3:1275:SER:HB3	26:X1:522:MET:HA	0.81	0.60
21:S1:1054:LEU:HA	21:S1:1057:TYR:HD2	1.65	0.60
23:U2:18:THR:CG2	31:c4:559:ILE:CG2	2.79	0.60
23:U2:75:TRP:C	31:c4:556:GLN:HE22	1.99	0.60
23:U2:435:PHE:HB2	31:c4:536:CYS:O	1.98	0.60
26:X2:195:GLN:CA	34:i:364:TYR:OH	2.49	0.60
26:X2:280:VAL:CA	34:i:14:TRP:NE1	2.63	0.60
26:X3:240:PHE:O	26:X3:241:GLU:HG3	2.02	0.60
26:X3:515:THR:HG22	26:X3:516:ASN:H	1.65	0.60
28:Z4:555:LYS:HG3	30:b4:233:TRP:HA	1.83	0.60
29:a3:214[B]:THR:CG2	29:a3:252[B]:MET:HE2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1131:ILE:HG12	3:A5:140:ALA:HB3	1.83	0.60
1:A3:1021:LEU:CD2	6:D3:816:VAL:CG1	2.53	0.60
1:A3:1170:ILE:N	3:A6:591:ASP:CA	2.58	0.60
1:A3:1186:TRP:O	3:A6:618:ALA:N	2.34	0.60
1:A3:1196:GLU:OE1	3:A6:611:ILE:N	2.34	0.60
1:A3:1223:GLU:O	3:A6:496:THR:CB	2.40	0.60
1:A3:1258:VAL:CG2	3:A6:621:GLN:O	2.49	0.60
1:A3:1277:TRP:HZ3	3:A6:622:GLY:CA	2.14	0.60
1:A3:1321:MET:CE	3:A6:126:ARG:NH2	2.55	0.60
2:A4:89:LEU:HD23	3:A6:431:PHE:O	2.00	0.60
2:A4:611:ILE:CB	3:A6:508:LEU:HD12	2.27	0.60
2:A4:861:GLN:CG	6:D3:606:LYS:NZ	2.64	0.60
2:A4:897:ASN:CA	3:A6:177:ILE:C	2.72	0.60
2:A4:899:THR:HG1	3:A6:180:GLU:HG3	1.66	0.60
2:A4:973:GLU:HG2	6:D3:192:TYR:CE2	2.36	0.60
3:A5:177:ILE:C	5:C2:740:ARG:NE	2.50	0.60
3:A5:1357:GLU:N	28:Z2:878:HIS:O	2.16	0.60
3:A5:1387:ILE:HD11	28:Z2:830:LEU:CB	2.31	0.60
3:A6:521:ASN:CG	6:D3:674:TYR:CD1	2.79	0.60
6:D2:270:THR:HG23	6:D2:296:PHE:CD2	2.37	0.60
9:G2:256:GLN:CB	17:O4:261:LYS:N	2.63	0.60
11:I1:527:THR:O	11:I1:531:ASN:ND2	2.34	0.60
11:I1:918:SER:OG	16:N1:386:MET:HA	2.02	0.60
11:I1:950:LEU:CD2	15:M1:606:LEU:HD21	2.30	0.60
11:I1:1104:LEU:CD1	16:N1:433:GLU:CB	2.80	0.60
11:I1:1607:GLN:OE1	11:I2:1735:PHE:C	2.44	0.60
11:I2:887:GLN:HA	17:O3:242:ARG:HB3	1.82	0.60
11:I2:942:HIS:N	17:O3:263:GLN:N	2.37	0.60
11:I2:951:LYS:CB	17:O3:253:LEU:CD2	2.74	0.60
11:I5:1279:THR:CB	26:X2:520:GLU:O	2.50	0.60
21:S2:1054:LEU:HA	21:S2:1057:TYR:HD2	1.65	0.60
21:S4:1054:LEU:HA	21:S4:1057:TYR:HD2	1.65	0.60
22:T1:917:ASP:HB2	22:T1:918:PRO:HD2	1.82	0.60
23:U2:40:ARG:CZ	31:c4:560:ASN:HB2	2.29	0.60
23:U2:395:CYS:HB2	31:c4:552:ARG:C	2.25	0.60
23:U2:400:ASN:HD21	31:c4:550:LYS:CE	2.08	0.60
23:U2:436:LEU:O	31:c4:428:ARG:NH2	2.35	0.60
26:X2:306:TRP:CD2	34:i:404:ARG:HG3	2.37	0.60
28:Z2:534:ASP:CG	30:b2:183:LEU:H	2.08	0.60
2:A2:1135:ARG:HH11	3:A5:147:LEU:HD22	1.65	0.60
2:A2:1142:PHE:CD2	3:A5:128:HIS:HB2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1143:LEU:CA	3:A5:129:ASN:HB3	2.32	0.60
1:A3:1122:LEU:C	3:A6:599:ARG:HH22	2.00	0.60
1:A3:1188:ASN:ND2	3:A6:646:ILE:HD11	2.16	0.60
1:A3:1227:PRO:N	3:A6:551:GLN:HG3	1.66	0.60
1:A3:1271:ILE:CG1	3:A6:553:ASP:H	2.14	0.60
1:A3:1325:MET:CE	3:A6:126:ARG:HH21	2.11	0.60
2:A4:610:THR:HG22	3:A6:507:ALA:CB	2.30	0.60
2:A4:611:ILE:HG23	3:A6:508:LEU:CD2	2.07	0.60
2:A4:643:ALA:CA	3:A6:501:VAL:CG1	2.66	0.60
2:A4:779:ASP:C	6:D3:679:ILE:CB	2.59	0.60
2:A4:808:GLN:NE2	3:A6:383:PRO:HG3	2.09	0.60
2:A4:859:GLN:CG	3:A6:131:PRO:CG	2.79	0.60
2:A4:954:ILE:CG1	4:B6:346:LEU:H	2.03	0.60
2:A4:974:PRO:CA	6:D3:499:LEU:HG	2.31	0.60
2:A4:985:ALA:CB	6:D3:500:LYS:CA	2.69	0.60
3:A5:178:GLY:O	5:C2:740:ARG:NH2	2.34	0.60
3:A5:785:ILE:CD1	3:A5:825:ARG:HG2	2.31	0.60
3:A6:1416:ARG:HD2	28:Z4:999:CYS:CB	2.31	0.60
9:G1:258:LYS:N	17:O2:253:LEU:N	2.47	0.60
11:I1:841:PHE:CB	15:M1:588:MET:HB2	2.16	0.60
11:I1:881:ILE:CG1	17:O1:249:ARG:C	2.74	0.60
11:I1:945:LEU:C	17:O1:256:TYR:CD2	2.80	0.60
11:I1:1061:ASP:OD2	17:O1:278:GLU:HB3	2.01	0.60
11:I1:1104:LEU:HD13	16:N1:433:GLU:CB	2.31	0.60
11:I2:841:PHE:HB3	15:M3:588:MET:CA	2.21	0.60
11:I2:950:LEU:HB3	16:N3:406:HIS:CG	2.35	0.60
11:I2:955:LYS:CB	16:N3:403:VAL:HG23	2.31	0.60
11:I2:997:SER:CB	17:O3:270:THR:CG2	2.80	0.60
11:I2:1054:ILE:N	17:O3:281:ALA:CA	2.64	0.60
11:I3:527:THR:O	11:I3:531:ASN:ND2	2.34	0.60
11:I3:988:GLU:N	11:I3:988:GLU:OE1	2.34	0.60
11:I4:988:GLU:N	11:I4:988:GLU:OE1	2.34	0.60
11:I4:1644:ARG:HD3	12:J4:275:PHE:CZ	2.35	0.60
21:S4:932:HIS:O	21:S4:933:GLU:HB2	2.01	0.60
23:U1:405:GLU:HA	31:c2:545:PRO:O	2.00	0.60
23:U2:35:PRO:HD3	31:c4:629:LEU:HD13	1.82	0.60
23:U2:431:ILE:HG23	31:c4:481:ILE:HA	1.83	0.60
26:X2:299:SER:O	34:i:369:VAL:HG23	2.01	0.60
28:Z1:527:SER:CA	30:b1:204:GLU:CG	2.59	0.60
28:Z1:561:GLN:HG3	30:b1:235:LEU:C	2.26	0.60
29:a4:214[B]:THR:CG2	29:a4:252[B]:MET:HE2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.60
1:A1:1202:GLU:O	2:A2:732:GLN:CA	2.38	0.60
1:A3:1086:LYS:CG	6:D3:798:MET:HA	2.30	0.60
1:A3:1162:ASN:O	3:A6:644:ALA:O	2.19	0.60
1:A3:1193:SER:CB	3:A6:610:THR:O	2.49	0.60
1:A3:1241:ARG:NH2	3:A6:596:ARG:HE	2.00	0.60
1:A3:1244:LEU:CG	3:A6:633:MET:CE	2.79	0.60
1:A3:1268:ASP:N	3:A6:553:ASP:C	2.59	0.60
1:A3:1271:ILE:CG2	3:A6:553:ASP:OD2	2.50	0.60
1:A3:1333:ARG:HA	6:D3:637:LYS:HD3	1.82	0.60
2:A4:80:LYS:HG2	3:A6:386:ALA:CA	2.19	0.60
2:A4:91:LEU:HD13	3:A6:104:PRO:HG2	1.80	0.60
2:A4:577:ASP:N	3:A6:453:SER:O	2.34	0.60
2:A4:647:GLU:H	3:A6:503:GLN:HB2	1.65	0.60
2:A4:670:SER:HB3	3:A6:542:LEU:CD2	2.26	0.60
2:A4:759:ALA:HB3	3:A6:388:GLU:HA	1.83	0.60
2:A4:808:GLN:CB	3:A6:320:VAL:H	2.00	0.60
2:A4:825:ARG:CZ	3:A6:564:ASN:ND2	2.62	0.60
2:A4:852:ASP:OD2	3:A6:155:TYR:CA	2.49	0.60
2:A4:852:ASP:OD1	3:A6:169:TYR:CB	2.42	0.60
2:A4:861:GLN:CA	6:D3:607:PRO:HG3	2.26	0.60
2:A4:867:GLU:CB	6:D3:605:THR:HG21	2.26	0.60
2:A4:874:VAL:CG1	6:D3:567:LEU:O	2.49	0.60
2:A4:891:GLY:HA3	3:A6:231:SER:OG	2.02	0.60
3:A5:994:VAL:O	11:I5:61:LYS:HB2	2.02	0.60
3:A6:443:ILE:H	6:D3:691:LEU:HD13	1.60	0.60
3:A6:1395:LYS:CA	28:Z4:919:PHE:C	2.65	0.60
6:D3:270:THR:HG23	6:D3:296:PHE:CD2	2.37	0.60
8:F1:1205:TRP:HE1	17:O2:251:ILE:CB	2.13	0.60
11:I1:873:ILE:HA	17:O1:251:ILE:HG23	1.82	0.60
11:I1:980:ILE:CA	15:M1:618:GLN:HA	2.32	0.60
11:I1:1032:THR:H	20:R1:176:ARG:C	1.62	0.60
11:I1:1037:THR:CA	15:M1:624:ASN:HD21	1.81	0.60
11:I2:962:ILE:CG1	15:M3:600:ASN:ND2	2.64	0.60
11:I2:968:PRO:HG2	20:R3:149:ARG:CZ	2.31	0.60
11:I2:1114:VAL:HG21	16:N3:436:ALA:N	2.16	0.60
11:I5:1455:ARG:O	11:I5:1459:ASN:ND2	2.33	0.60
17:O3:101:ASN:CG	18:P3:322:LYS:HG2	2.22	0.60
21:S1:671:ALA:CB	21:S2:1146:ALA:HB2	2.25	0.60
21:S2:868:ASP:O	21:S2:870:ASP:N	2.35	0.60
22:T2:739:GLU:OE1	31:c4:332:LYS:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:875:LEU:HD13	22:T2:919:LEU:HA	1.83	0.60
23:U2:391:HIS:ND1	31:c4:477:GLU:CA	2.53	0.60
26:X4:265:ILE:HG21	26:X4:289:ILE:HD11	1.81	0.60
28:Z1:534:ASP:CG	30:b1:183:LEU:H	2.08	0.60
28:Z4:534:ASP:CG	30:b4:183:LEU:H	2.08	0.60
30:b4:21:TRP:CD1	30:b4:364:CYS:HG	2.19	0.60
2:A2:1126:VAL:CB	3:A5:135:PHE:HB3	2.32	0.60
2:A2:1142:PHE:CD2	3:A5:169:TYR:HB2	2.36	0.60
2:A2:1143:LEU:N	3:A5:130:ILE:C	2.60	0.60
2:A2:1143:LEU:CA	3:A5:129:ASN:HB2	2.31	0.60
2:A2:1243:SER:O	2:A2:1245:ASP:N	2.35	0.60
1:A3:1261:TYR:HE1	3:A6:621:GLN:HB3	1.49	0.60
1:A3:1270:SER:CB	3:A6:553:ASP:HB3	2.31	0.60
2:A4:574:ARG:HH21	3:A6:455:LEU:C	2.10	0.60
2:A4:574:ARG:NH2	3:A6:455:LEU:HA	2.01	0.60
2:A4:702:SER:HB2	3:A6:379:VAL:HG11	0.62	0.60
2:A4:720:LEU:HD13	3:A6:494:PRO:CA	2.31	0.60
3:A5:1399:ARG:CG	28:Z2:912:ASP:CB	2.80	0.60
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CG	2.13	0.60
6:D4:270:THR:HG23	6:D4:296:PHE:CD2	2.36	0.60
6:D7:270:THR:HG23	6:D7:296:PHE:CD2	2.36	0.60
8:F2:1088:GLU:O	17:O4:249:ARG:HB2	1.81	0.60
11:I1:889:THR:O	17:O1:239:GLN:NE2	2.35	0.60
11:I1:957:SER:O	20:R1:168:LEU:CD1	2.50	0.60
11:I1:1043:LEU:CD2	16:N1:430:ARG:CB	2.79	0.60
11:I1:1048:GLU:CD	17:O1:288:GLU:HG3	2.27	0.60
11:I2:840:LEU:HD22	17:O3:247:TRP:HB2	1.77	0.60
11:I2:942:HIS:ND1	17:O3:259:ASP:OD1	2.35	0.60
11:I2:945:LEU:CA	17:O3:255:GLY:O	2.50	0.60
11:I2:946:THR:C	17:O3:260:LEU:CD2	2.72	0.60
11:I2:957:SER:HA	20:R3:168:LEU:N	2.13	0.60
11:I2:1037:THR:OG1	20:R3:169:GLY:HA2	1.96	0.60
11:I2:1052:LEU:CD2	16:N3:434:LEU:CD1	2.76	0.60
11:I2:1052:LEU:N	17:O3:286:ILE:HB	2.16	0.60
11:I2:1110:SER:OG	16:N3:438:LEU:CD1	2.45	0.60
11:I3:1273:GLU:HB2	26:X1:527:VAL:HG23	1.84	0.60
17:O4:109:PRO:C	18:P4:318:PRO:HB3	2.25	0.60
18:P1:278:ASN:HA	18:P4:322:LYS:O	2.01	0.60
21:S1:868:ASP:O	21:S1:870:ASP:N	2.35	0.60
21:S2:868:ASP:O	21:S2:869:PHE:C	2.44	0.60
23:U2:23:LYS:HG3	31:c4:484:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:394:ILE:HA	31:c4:535:VAL:HA	1.84	0.60
23:U2:397:ASP:N	31:c4:551:LEU:CD2	2.64	0.60
24:V1:339:LEU:HD13	31:c1:627:ASP:CG	2.24	0.60
24:V3:297:LEU:HD23	24:V3:300:LEU:HD12	1.84	0.60
26:X2:240:PHE:O	26:X2:241:GLU:HG3	2.02	0.60
26:X2:283:ASP:CB	34:i:479:THR:CG2	0.60	0.60
26:X2:301:SER:C	34:i:335:HIS:NE2	2.58	0.60
26:X2:302:THR:C	34:i:416:VAL:HG11	2.27	0.60
26:X2:360:PHE:C	34:i:420:TRP:HA	2.26	0.60
28:Z1:558:LEU:HA	30:b1:236:THR:H	1.60	0.60
28:Z2:609:GLY:O	28:Z2:613:ILE:HG22	2.02	0.60
1:A1:1333:ARG:C	6:D1:637:LYS:CD	2.73	0.60
2:A2:1057:PHE:CD2	2:A2:1096:ILE:HD13	2.37	0.60
1:A3:1150:LEU:HD22	3:A6:591:ASP:H	1.65	0.60
2:A4:673:HIS:C	3:A6:97:ASP:CG	2.70	0.60
2:A4:826:ASN:O	2:A4:860:GLU:HG3	2.02	0.60
2:A4:878:LEU:CD2	6:D3:607:PRO:C	2.74	0.60
2:A4:917:LEU:HD12	3:A6:175:GLU:OE1	2.01	0.60
2:A4:981:PRO:CD	6:D3:473:GLU:OE2	2.49	0.60
3:A6:518:GLU:C	6:D3:686:ASP:HB3	2.27	0.60
8:F1:1138:TRP:HB3	17:O2:244:GLU:OE1	2.01	0.60
11:I1:1043:LEU:CG	20:R1:170:LEU:HD22	2.31	0.60
11:I1:1046:HIS:H	17:O1:283:ALA:HB3	1.66	0.60
11:I2:878:GLN:HA	17:O3:249:ARG:O	2.02	0.60
11:I2:948:ALA:CA	17:O3:253:LEU:HA	2.31	0.60
11:I2:1020:ALA:CB	16:N3:409:ALA:H	2.00	0.60
11:I2:1030:ARG:HH11	20:R3:175:GLN:CG	2.14	0.60
11:I2:1051:LYS:CE	17:O3:289:ASP:H	2.13	0.60
11:I2:1109:LEU:HD22	17:O3:290:TYR:CE2	2.33	0.60
11:I3:1275:SER:CB	26:X1:508:LEU:CD1	2.77	0.60
11:I5:1255:HIS:ND1	11:I5:1255:HIS:O	2.35	0.60
21:S3:868:ASP:O	21:S3:870:ASP:N	2.35	0.60
21:S4:868:ASP:O	21:S4:870:ASP:N	2.35	0.60
23:U1:38:ILE:CD1	31:c2:473:THR:CB	2.53	0.60
23:U1:202:LEU:CB	31:c1:633:PHE:CA	2.73	0.60
23:U2:39:ILE:H	31:c4:556:GLN:C	2.09	0.60
23:U2:429:ILE:CG2	31:c4:463:HIS:CD2	2.77	0.60
24:V3:433:GLU:OE1	24:V3:467:SER:OG	2.20	0.60
26:X2:187:THR:HG22	34:i:444:GLU:HB3	0.61	0.60
26:X2:196:ASP:OD1	34:i:366:PHE:HE1	1.80	0.60
26:X2:284:ALA:CA	34:i:479:THR:HA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:308:ASN:CB	34:i:405:TYR:HB2	2.32	0.60
28:Z3:522:ASN:OD1	30:b3:241:PRO:CG	2.40	0.60
2:A2:826:ASN:O	2:A2:860:GLU:HG3	2.02	0.60
2:A2:908:LEU:HD21	6:D1:602:THR:N	2.11	0.60
2:A2:1138:GLU:CB	3:A5:147:LEU:CD2	2.77	0.60
1:A3:1188:ASN:CA	3:A6:645:PHE:HB3	2.31	0.60
1:A3:1243:SER:H	3:A6:585:ASN:CA	2.15	0.60
1:A3:1332:ARG:CZ	6:D3:636:ASP:CG	2.63	0.60
2:A4:85:VAL:HG13	3:A6:405:PHE:CG	2.30	0.60
2:A4:555:VAL:CG2	3:A6:437:ARG:HH21	1.73	0.60
2:A4:690:ALA:CB	3:A6:398:THR:CA	2.76	0.60
2:A4:715:GLU:HG2	3:A6:515:THR:C	2.25	0.60
2:A4:782:VAL:HG23	6:D3:677:GLN:HA	1.48	0.60
2:A4:870:HIS:CE1	6:D3:566:PHE:HA	2.37	0.60
2:A4:873:PRO:HD2	6:D3:569:CYS:CA	2.31	0.60
3:A5:996:ASN:O	11:I5:61:LYS:N	2.17	0.60
3:A5:1094:ILE:HG12	11:I5:9:ALA:HA	1.83	0.60
6:D5:270:THR:HG23	6:D5:296:PHE:CD2	2.37	0.60
11:I1:883:ALA:HB1	17:O1:243:LEU:O	1.77	0.60
11:I1:922:ASP:C	15:M1:592:LEU:HB3	2.26	0.60
11:I1:930:LEU:HD13	15:M1:598:GLU:HG2	1.79	0.60
11:I1:950:LEU:H	16:N1:407:ALA:HB2	1.67	0.60
11:I1:984:GLU:HA	15:M1:614:ASP:N	2.17	0.60
11:I1:1057:LYS:N	17:O1:278:GLU:HB2	2.16	0.60
11:I2:895:ARG:H	17:O3:239:GLN:HG3	1.66	0.60
21:S2:932:HIS:O	21:S2:933:GLU:HB2	2.01	0.60
23:U1:38:ILE:HD13	31:c2:473:THR:HB	1.74	0.60
26:X1:240:PHE:O	26:X1:241:GLU:HG3	2.01	0.60
26:X2:305:GLU:H	34:i:325:VAL:HG21	1.55	0.60
26:X4:536:LYS:O	26:X4:540:THR:OG1	2.20	0.60
28:Z4:245:ILE:HB	28:Z4:255:GLN:HB2	1.84	0.60
34:i:61[A]:VAL:HG12	34:i:70:LEU:HD23	1.83	0.60
1:A1:785:ILE:CD1	1:A1:825:ARG:HG2	2.31	0.60
1:A3:1192:GLN:CB	3:A6:645:PHE:CE2	2.66	0.60
1:A3:1230:TYR:O	3:A6:579:PHE:HB2	2.02	0.60
1:A3:1311:ARG:NE	3:A6:715:GLU:HG3	2.16	0.60
2:A4:542:LEU:HB2	3:A6:360:ARG:HG2	1.83	0.60
2:A4:574:ARG:NH2	3:A6:108:SER:OG	2.35	0.60
2:A4:577:ASP:CG	3:A6:453:SER:OG	2.39	0.60
2:A4:607:ARG:CG	3:A6:505:ALA:CB	2.72	0.60
2:A4:685:ARG:NH2	3:A6:432:VAL:HG11	2.08	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:774:VAL:C	3:A6:525:THR:HB	2.27	0.60
2:A4:859:GLN:N	6:D3:606:LYS:CE	2.60	0.60
2:A4:867:GLU:CG	6:D3:605:THR:HB	2.25	0.60
2:A4:1155:ASN:CG	5:C4:735:ILE:HA	2.25	0.60
3:A5:164:LEU:HB3	5:C2:742:ASP:OD2	1.95	0.60
3:A5:171:HIS:NE2	5:C2:732:LYS:O	2.33	0.60
3:A5:996:ASN:CA	11:I5:59:LEU:N	2.48	0.60
3:A5:1313:LYS:CA	28:Z2:830:LEU:O	2.49	0.60
6:D1:649:VAL:O	6:D1:649:VAL:HG12	2.00	0.60
11:I1:408:PRO:O	11:I1:409:SER:OG	2.16	0.60
11:I1:877:ILE:C	17:O1:252:VAL:H	1.86	0.60
11:I1:884:LEU:CD2	16:N1:396:ILE:CD1	2.80	0.60
11:I1:1487:ASP:OD1	11:I1:1488:THR:N	2.35	0.60
11:I2:421:SER:O	11:I2:425:HIS:ND1	2.33	0.60
11:I2:899:LEU:N	17:O3:235:ASN:HB2	2.17	0.60
11:I2:934:LEU:CB	15:M3:601:ASP:O	2.46	0.60
11:I2:978:LYS:C	15:M3:621:ARG:NH1	2.58	0.60
11:I2:1029:LEU:N	20:R3:171:ALA:C	2.60	0.60
11:I2:1041:GLN:HE21	15:M3:614:ASP:C	2.09	0.60
11:I4:527:THR:O	11:I4:531:ASN:ND2	2.34	0.60
17:O3:101:ASN:CA	18:P3:326:GLN:HE21	2.10	0.60
22:T1:736:LEU:HB3	31:c5:19:THR:HG21	0.71	0.60
26:X2:204:PHE:CE2	34:i:445:GLN:CG	2.83	0.60
26:X2:290:GLU:HG2	34:i:453:LEU:HG	1.84	0.60
26:X2:293:LYS:HB2	34:i:452:ILE:HG22	1.84	0.60
26:X2:324:ILE:CD1	34:i:476:LEU:HB3	2.31	0.60
26:X2:536:LYS:O	26:X2:540:THR:OG1	2.20	0.60
28:Z2:561:GLN:HG3	30:b2:235:LEU:C	2.26	0.60
28:Z2:561:GLN:CG	30:b2:236:THR:C	2.75	0.60
28:Z3:411:LEU:H	30:b3:251:ILE:HD13	1.11	0.60
2:A2:968:SER:C	6:D1:202:GLN:HA	2.27	0.59
2:A2:1135:ARG:HD3	3:A5:147:LEU:HD23	1.84	0.59
2:A2:1150:LEU:HD11	5:C2:731:LYS:HG3	1.84	0.59
1:A3:1255:LEU:N	3:A6:634:ASP:CG	2.59	0.59
2:A4:551:GLN:HB2	3:A6:455:LEU:CA	2.32	0.59
2:A4:555:VAL:HA	3:A6:456:ASP:OD1	2.01	0.59
2:A4:726:ALA:CA	3:A6:575:LEU:HD22	2.31	0.59
2:A4:771:ILE:O	3:A6:479:VAL:HG22	2.00	0.59
2:A4:796:GLN:CB	3:A6:249:SER:HB3	2.31	0.59
2:A4:854:VAL:HG13	3:A6:174:PRO:CD	2.32	0.59
2:A4:859:GLN:CG	3:A6:131:PRO:HG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:955:CYS:SG	4:B6:345:LYS:CB	2.89	0.59
2:A4:980:ARG:CD	6:D3:526:LEU:N	2.65	0.59
2:A4:1020:ILE:HA	2:A4:1023:ILE:CD1	2.32	0.59
2:A4:1023:ILE:O	2:A4:1024:ASP:CB	2.48	0.59
6:D3:743:HIS:NE2	11:I2:1528:ARG:HD2	2.16	0.59
8:F1:1266:MET:CG	17:O2:262:ASP:CG	2.60	0.59
9:G1:263:MET:HE1	16:N2:407:ALA:C	2.26	0.59
11:I1:898:VAL:HG21	17:O1:237:PRO:HD3	1.84	0.59
11:I1:921:GLU:CB	16:N1:392:THR:HB	2.29	0.59
11:I1:926:SER:N	15:M1:593:ALA:HB1	2.16	0.59
11:I1:934:LEU:HD11	15:M1:599:ILE:HA	1.84	0.59
11:I1:957:SER:O	20:R1:168:LEU:HG	1.98	0.59
11:I1:1051:LYS:NZ	17:O1:289:ASP:H	1.99	0.59
11:I1:1109:LEU:CA	16:N1:442:GLU:H	2.14	0.59
11:I2:896:PRO:CG	17:O3:233:THR:HA	2.31	0.59
11:I2:981:VAL:H	20:R3:147:LEU:HD11	0.77	0.59
11:I2:1039:ALA:HB2	20:R3:170:LEU:HB2	1.80	0.59
11:I3:1277:LEU:CD2	26:X1:519:ILE:CA	2.76	0.59
11:I3:1277:LEU:HD13	26:X1:518:ASP:C	2.18	0.59
11:I3:1487:ASP:OD1	11:I3:1488:THR:N	2.35	0.59
11:I5:1487:ASP:OD1	11:I5:1488:THR:N	2.35	0.59
21:S1:950:HIS:HE1	21:S1:995:MET:HE1	1.67	0.59
22:T2:813:VAL:O	22:T2:817:MET:HG2	2.02	0.59
22:T3:842:ARG:O	22:T3:846:MET:HG3	2.02	0.59
22:T4:813:VAL:O	22:T4:817:MET:HG2	2.02	0.59
23:U1:140:PRO:C	31:c1:501:GLU:OE1	2.40	0.59
23:U2:18:THR:CG2	31:c4:563:ARG:NE	2.34	0.59
23:U2:18:THR:HG22	31:c4:559:ILE:HD12	1.84	0.59
23:U2:23:LYS:HG2	31:c4:532:TRP:HZ3	1.64	0.59
23:U2:395:CYS:O	31:c4:555:VAL:CA	2.50	0.59
24:V3:525:ASP:O	24:V3:528:LEU:HB2	2.02	0.59
26:X2:301:SER:N	34:i:335:HIS:N	2.06	0.59
26:X2:315:GLN:H	34:i:400:LYS:N	2.00	0.59
26:X2:361:LEU:CG	34:i:423:LYS:HE2	2.25	0.59
27:Y3:219:SER:HG	27:Y3:312:TRP:CD1	2.19	0.59
28:Z1:561:GLN:CB	30:b1:235:LEU:C	2.61	0.59
1:A1:874:VAL:CG1	6:D3:272:VAL:C	2.69	0.59
2:A2:978:ASP:C	6:D1:476:VAL:CB	2.48	0.59
1:A3:1195:PHE:CE2	3:A6:677:ALA:HB3	2.37	0.59
1:A3:1226:LEU:HB3	3:A6:551:GLN:HG3	1.84	0.59
1:A3:1235:ILE:O	3:A6:580:ALA:O	2.05	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1257:VAL:CA	3:A6:638:GLU:OE2	2.48	0.59
2:A4:635:ARG:HH22	3:A6:602:ILE:N	2.00	0.59
2:A4:685:ARG:HH12	3:A6:362:PHE:HD1	1.48	0.59
2:A4:691:LYS:NZ	3:A6:316:ARG:HB2	2.16	0.59
2:A4:792:VAL:HG12	3:A6:188:ALA:CB	2.32	0.59
2:A4:973:GLU:N	6:D3:205:LEU:HB3	2.16	0.59
3:A5:189:VAL:CG2	5:C2:742:ASP:CB	2.71	0.59
6:D5:234:LEU:CD1	31:c3:552:ARG:NE	2.64	0.59
11:I1:834:SER:N	17:O1:237:PRO:HB3	2.14	0.59
11:I1:955:LYS:HZ2	17:O1:249:ARG:NH2	2.00	0.59
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD21	2.16	0.59
11:I2:1028:CYS:HA	20:R3:168:LEU:HB3	1.84	0.59
11:I3:1277:LEU:CD2	26:X1:519:ILE:N	2.65	0.59
17:O1:103:VAL:HG13	18:P1:326:GLN:HE22	1.60	0.59
21:S1:932:HIS:O	21:S1:933:GLU:HB2	2.01	0.59
21:S2:950:HIS:HE1	21:S2:995:MET:HE1	1.68	0.59
21:S3:950:HIS:HE1	21:S3:995:MET:HE1	1.67	0.59
23:U1:431:ILE:CG1	31:c2:470:ARG:H	2.13	0.59
23:U2:391:HIS:HB2	31:c4:477:GLU:HG3	1.81	0.59
24:V1:297:LEU:HD23	24:V1:300:LEU:HD12	1.84	0.59
26:X2:292:LEU:HA	34:i:448:PHE:CE2	2.37	0.59
26:X2:336:LEU:CD2	34:i:478:PRO:CG	2.81	0.59
27:Y1:219:SER:HG	27:Y1:312:TRP:CD1	2.20	0.59
28:Z4:556:ASN:CG	30:b4:166:LEU:HD22	2.27	0.59
28:Z4:561:GLN:CG	30:b4:236:THR:C	2.75	0.59
30:b3:384:ARG:HH21	30:b3:389:THR:HG21	1.67	0.59
31:c4:439:TRP:CG	31:c4:517:LEU:HD13	2.37	0.59
2:A2:980:ARG:NE	6:D1:526:LEU:N	2.51	0.59
2:A2:1139:ILE:CG2	3:A5:134:VAL:HB	2.26	0.59
2:A2:1155:ASN:ND2	3:A5:177:ILE:HG12	2.14	0.59
2:A2:1157:TYR:CE1	3:A5:134:VAL:CG2	2.84	0.59
1:A3:1079:ILE:O	6:D3:798:MET:HE2	2.03	0.59
1:A3:1193:SER:CA	3:A6:610:THR:O	2.49	0.59
1:A3:1241:ARG:HD3	3:A6:597:GLU:OE1	1.97	0.59
1:A3:1261:TYR:CD2	3:A6:616:ALA:CA	2.85	0.59
2:A4:87:GLN:CA	3:A6:392:LEU:HA	2.33	0.59
2:A4:611:ILE:HD13	3:A6:507:ALA:H	1.66	0.59
2:A4:643:ALA:HA	3:A6:501:VAL:HG13	1.85	0.59
2:A4:689:LYS:CD	3:A6:381:LEU:CD2	2.74	0.59
2:A4:719:ARG:CG	3:A6:514:GLY:N	2.54	0.59
2:A4:726:ALA:CA	3:A6:575:LEU:HD13	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:792:VAL:CA	3:A6:249:SER:OG	2.45	0.59
2:A4:872:ALA:HB2	6:D3:554:LEU:HD13	1.82	0.59
2:A4:872:ALA:N	2:A4:873:PRO:HD2	2.18	0.59
2:A4:897:ASN:C	3:A6:176:LEU:C	2.70	0.59
3:A5:1005:PHE:CD1	11:I5:67:LYS:NZ	2.70	0.59
3:A5:1368:GLN:HB3	28:Z2:841:ALA:HA	0.61	0.59
3:A5:1395:LYS:C	28:Z2:873:LEU:CB	2.74	0.59
3:A6:445:THR:HG21	6:D3:716:ARG:C	2.27	0.59
6:D5:240:ASP:HB3	31:c3:470:ARG:CZ	2.25	0.59
6:D7:649:VAL:O	6:D7:649:VAL:HG12	2.00	0.59
11:I1:1032:THR:N	20:R1:176:ARG:HB3	1.33	0.59
11:I1:1051:LYS:NZ	17:O1:289:ASP:N	2.50	0.59
11:I1:1607:GLN:CG	11:I2:1739:GLU:CG	2.55	0.59
11:I1:1610:VAL:CG2	11:I2:1673:VAL:CG1	2.70	0.59
11:I2:899:LEU:HD23	17:O3:235:ASN:HB2	1.84	0.59
11:I2:921:GLU:N	11:I2:921:GLU:OE1	2.35	0.59
11:I2:1048:GLU:C	17:O3:287:LEU:HD23	2.25	0.59
11:I4:1487:ASP:OD1	11:I4:1488:THR:N	2.35	0.59
17:O4:113:PRO:O	18:P4:325:ILE:HG22	2.02	0.59
21:S3:933:GLU:OE2	21:S3:934:HIS:HB3	2.02	0.59
21:S4:933:GLU:OE2	21:S4:934:HIS:HB3	2.02	0.59
22:T1:875:LEU:HD13	22:T1:919:LEU:HA	1.83	0.59
22:T4:842:ARG:O	22:T4:846:MET:HG3	2.02	0.59
23:U2:23:LYS:C	31:c4:487:PHE:HB3	2.27	0.59
23:U2:399:ILE:CD1	31:c4:553:LEU:C	2.62	0.59
23:U2:400:ASN:HD21	31:c4:550:LYS:NZ	1.98	0.59
23:U2:407:VAL:CG2	31:c4:163:ASP:HB2	2.33	0.59
26:X2:204:PHE:CE2	34:i:445:GLN:HG2	2.37	0.59
26:X2:309:LEU:C	34:i:406:HIS:CD2	2.44	0.59
26:X2:534:ILE:O	26:X2:538:ILE:HG12	2.02	0.59
26:X3:536:LYS:O	26:X3:540:THR:OG1	2.20	0.59
28:Z1:540:LEU:CA	30:b1:165:THR:HG23	2.21	0.59
28:Z1:555:LYS:HG3	30:b1:233:TRP:HA	1.83	0.59
28:Z3:596:PHE:CZ	28:Z3:704:SER:HA	2.38	0.59
33:h:126:MET:HE2	33:h:151:ALA:CB	2.31	0.59
1:A1:1399:ARG:HB2	2:A2:888:GLN:OE1	2.01	0.59
2:A2:1020:ILE:HA	2:A2:1023:ILE:CD1	2.32	0.59
2:A2:1141:GLU:CD	3:A5:563:THR:HG1	2.08	0.59
2:A2:1154:PHE:HZ	4:B5:342:ARG:HD2	1.59	0.59
2:A2:1163:TYR:OH	3:A5:136:GLU:HB2	2.00	0.59
2:A2:1171:PHE:HZ	4:B5:342:ARG:CD	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1257:VAL:HG11	3:A6:618:ALA:O	2.02	0.59
1:A3:1258:VAL:H	3:A6:623:SER:CB	2.15	0.59
1:A3:1396:GLY:O	3:A6:172:PRO:HG3	1.99	0.59
2:A4:90:GLN:H	3:A6:406:LEU:HA	1.67	0.59
2:A4:617:VAL:HG23	3:A6:509:LYS:NZ	2.17	0.59
2:A4:652:PRO:HD3	3:A6:542:LEU:HD13	1.84	0.59
2:A4:670:SER:OG	3:A6:542:LEU:HD22	1.94	0.59
2:A4:693:VAL:H	3:A6:316:ARG:CZ	2.13	0.59
2:A4:704:THR:O	3:A6:480:VAL:HG13	1.78	0.59
2:A4:705:ILE:HB	3:A6:482:LYS:CA	2.32	0.59
2:A4:706:PRO:HD3	3:A6:482:LYS:HG3	0.61	0.59
2:A4:710:LEU:CD2	3:A6:465:SER:HA	2.31	0.59
2:A4:718:GLU:HB3	3:A6:121:PRO:CB	2.31	0.59
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG2	2.38	0.59
3:A5:1151:THR:HA	5:C5:733:LEU:HD11	1.79	0.59
3:A6:442:ARG:CZ	6:D3:692:LEU:HD21	2.32	0.59
3:A6:523:ASN:ND2	6:D3:635:ALA:HB2	2.16	0.59
3:A6:1413:SER:C	28:Z4:994:ILE:CB	2.76	0.59
6:D6:270:THR:HG23	6:D6:296:PHE:CD2	2.37	0.59
6:D7:530:ARG:O	11:I3:181:GLN:HB3	1.99	0.59
8:F1:1264:ARG:NH1	17:O2:264:ILE:CA	2.64	0.59
11:I1:880:MET:CB	17:O1:247:TRP:HA	1.93	0.59
11:I1:921:GLU:OE1	11:I1:921:GLU:N	2.35	0.59
11:I1:927:HIS:NE2	15:M1:594:LYS:HB2	2.16	0.59
11:I1:977:ASN:CG	15:M1:621:ARG:C	2.69	0.59
11:I1:1037:THR:HB	15:M1:624:ASN:HD22	1.64	0.59
11:I1:1066:LEU:O	16:N1:429:GLU:CB	2.47	0.59
11:I1:1667:GLN:CD	11:I2:1665:LEU:HG	2.15	0.59
23:U2:26:GLN:HA	31:c4:490:GLY:C	2.27	0.59
23:U2:38:ILE:CD1	31:c4:555:VAL:CG1	2.80	0.59
23:U2:78:VAL:CG1	31:c4:553:LEU:CA	2.80	0.59
23:U2:395:CYS:HB2	31:c4:552:ARG:CA	2.31	0.59
24:V1:152:ALA:HB1	24:V1:160:LEU:CD1	2.33	0.59
24:V3:152:ALA:HB1	24:V3:160:LEU:CD1	2.33	0.59
28:Z1:772:GLN:CB	30:b1:136:PHE:HE1	2.16	0.59
28:Z2:560:ASN:ND2	30:b2:211:ILE:HG21	2.15	0.59
30:b4:384:ARG:HH21	30:b4:389:THR:HG21	1.67	0.59
31:c1:439:TRP:CG	31:c1:517:LEU:HD13	2.38	0.59
2:A2:224:PRO:N	6:D1:709:ARG:HH12	2.00	0.59
2:A2:867:GLU:HB2	6:D1:605:THR:HB	1.82	0.59
2:A2:967:GLU:CA	6:D1:202:GLN:OE1	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:980:ARG:HG3	6:D1:526:LEU:CA	2.31	0.59
1:A3:1117:ILE:CG1	3:A6:590:SER:OG	2.50	0.59
1:A3:1163:TYR:O	3:A6:648:TYR:CZ	2.52	0.59
1:A3:1182:ILE:CB	3:A6:639:ASN:ND2	2.63	0.59
1:A3:1192:GLN:OE1	3:A6:649:GLY:HA2	2.03	0.59
1:A3:1221:ILE:HD12	2:A4:614:ALA:C	2.27	0.59
1:A3:1230:TYR:CD1	3:A6:609:GLU:C	2.67	0.59
1:A3:1257:VAL:HA	3:A6:719:ARG:CZ	2.33	0.59
2:A4:619:CYS:O	3:A6:111:GLU:HB2	2.02	0.59
2:A4:713:ILE:HG23	3:A6:403:ARG:HE	1.66	0.59
2:A4:718:GLU:HG3	3:A6:491:VAL:C	2.25	0.59
2:A4:718:GLU:HG3	3:A6:491:VAL:O	2.03	0.59
2:A4:770:GLY:O	3:A6:469:PHE:HE2	1.82	0.59
2:A4:771:ILE:HD13	3:A6:476:PHE:CE2	2.35	0.59
2:A4:774:VAL:HG11	3:A6:467:LEU:H	0.77	0.59
2:A4:798:LYS:HB2	3:A6:264:GLU:CD	2.28	0.59
2:A4:827:ILE:HG22	3:A6:133:LYS:C	2.27	0.59
2:A4:951:GLU:CG	3:A6:234:LEU:N	2.64	0.59
3:A5:153:ILE:HB	5:C2:739:MET:CE	2.23	0.59
3:A5:178:GLY:N	5:C2:740:ARG:CZ	2.65	0.59
3:A5:1027:HIS:HE1	11:I5:65:LYS:HB2	1.27	0.59
3:A5:1414:PHE:O	28:Z2:962:LYS:N	2.27	0.59
6:D1:270:THR:HG23	6:D1:296:PHE:CD2	2.36	0.59
8:F1:581:PHE:O	8:F1:585:THR:OG1	2.21	0.59
8:F1:1136:GLN:O	17:O2:248:SER:OG	2.16	0.59
9:G1:256:GLN:N	17:O2:257:ALA:CB	2.59	0.59
9:G1:263:MET:HB3	17:O2:260:LEU:HD13	1.82	0.59
11:I3:1267:LEU:O	26:X1:529:TRP:CD1	2.56	0.59
11:I5:527:THR:O	11:I5:531:ASN:ND2	2.34	0.59
21:S3:678:GLU:CB	21:S4:1143:VAL:H	2.16	0.59
21:S4:932:HIS:O	21:S4:933:GLU:CB	2.51	0.59
21:S4:1083:TRP:CE3	21:S4:1083:TRP:HA	2.38	0.59
23:U1:135:ARG:NE	31:c1:637:ASP:HB3	2.16	0.59
23:U2:24:ILE:HB	31:c4:486:VAL:HG23	1.83	0.59
23:U2:24:ILE:O	31:c4:489:LEU:CG	2.51	0.59
23:U2:35:PRO:HD3	31:c4:629:LEU:CD1	2.32	0.59
26:X2:333:GLU:CD	34:i:475:ILE:CG1	2.72	0.59
26:X3:244:TYR:O	26:X3:248:LEU:HG	2.02	0.59
26:X3:534:ILE:O	26:X3:538:ILE:HG12	2.02	0.59
28:Z1:410:ASN:HD22	30:b1:252:ALA:CA	2.14	0.59
28:Z1:561:GLN:CG	30:b1:236:THR:C	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:407:GLY:O	30:b2:251:ILE:HG12	2.01	0.59
30:b2:384:ARG:HH21	30:b2:389:THR:HG21	1.67	0.59
32:g:124:ASP:OD2	32:g:426:ARG:HD3	2.03	0.59
1:A1:873:PRO:HB3	6:D3:218:LYS:NZ	2.14	0.59
1:A1:1083:SER:HG	6:D1:798:MET:CE	2.15	0.59
2:A2:1130:ARG:HB2	3:A5:140:ALA:HB1	1.85	0.59
1:A3:1188:ASN:CA	3:A6:645:PHE:CB	2.80	0.59
1:A3:1254:LEU:HD12	3:A6:638:GLU:HG3	0.65	0.59
2:A4:550:VAL:HG23	3:A6:455:LEU:CD2	2.33	0.59
2:A4:610:THR:CG2	3:A6:507:ALA:CA	2.80	0.59
2:A4:720:LEU:CB	3:A6:495:ASP:N	2.52	0.59
2:A4:773:PHE:HB3	3:A6:469:PHE:CE2	2.37	0.59
2:A4:789:LEU:HA	3:A6:145:THR:O	2.01	0.59
2:A4:803:GLU:O	3:A6:383:PRO:HD3	2.02	0.59
2:A4:952:ARG:CG	4:B6:347:LEU:HD21	2.11	0.59
2:A4:954:ILE:N	4:B6:346:LEU:H	2.01	0.59
3:A5:1395:LYS:CG	28:Z2:870:ILE:CA	2.81	0.59
3:A6:785:ILE:CD1	3:A6:825:ARG:HG2	2.32	0.59
3:A6:1359:LEU:C	28:Z4:918:PHE:CB	2.76	0.59
8:F1:230:GLU:OE1	8:F1:230:GLU:N	2.35	0.59
11:I1:838:GLU:N	17:O1:240:GLY:HA3	2.16	0.59
11:I1:911:PRO:HA	15:M1:584:GLN:HE22	1.66	0.59
11:I1:942:HIS:O	17:O1:260:LEU:CA	2.51	0.59
11:I1:947:LEU:HD11	16:N1:411:GLN:CB	2.29	0.59
11:I1:948:ALA:CB	17:O1:252:VAL:O	2.47	0.59
11:I1:1017:VAL:HG11	17:O1:260:LEU:HD21	1.84	0.59
11:I2:945:LEU:CA	17:O3:260:LEU:H	2.14	0.59
11:I2:980:ILE:HG22	15:M3:617:THR:O	2.02	0.59
21:S1:933:GLU:OE2	21:S1:934:HIS:HB3	2.02	0.59
22:T1:752:ALA:C	31:c5:58:ARG:CD	2.65	0.59
23:U1:22:PHE:O	31:c2:563:ARG:NE	2.03	0.59
23:U1:26:GLN:O	31:c2:563:ARG:CA	2.46	0.59
23:U2:25:GLU:HA	31:c4:578:TRP:NE1	2.16	0.59
23:U2:392:LEU:HD11	31:c4:549:ALA:O	2.03	0.59
23:U2:394:ILE:HG22	31:c4:535:VAL:HA	1.74	0.59
23:U2:435:PHE:HD1	31:c4:539:ILE:HB	1.61	0.59
25:W4:205:ASP:HB3	25:W4:227:GLN:HB3	1.85	0.59
26:X1:162:VAL:O	26:X1:166:ASP:HB3	2.03	0.59
26:X2:196:ASP:HB2	34:i:364:TYR:CD2	2.36	0.59
26:X2:329:ARG:CZ	34:i:475:ILE:HG13	2.12	0.59
26:X4:244:TYR:O	26:X4:248:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:410:ASN:HD22	30:b1:251:ILE:C	2.11	0.59
28:Z2:558:LEU:N	30:b2:235:LEU:O	2.36	0.59
2:A2:1131:ILE:C	3:A5:141:GLY:CA	2.76	0.59
1:A3:1120:ASP:HB3	3:A6:596:ARG:N	1.89	0.59
2:A4:92:ASP:CB	3:A6:365:MET:HE3	2.33	0.59
2:A4:537:ALA:HB3	3:A6:365:MET:HB2	1.85	0.59
2:A4:701:ILE:CD1	3:A6:466:ALA:HB3	2.16	0.59
2:A4:727:ASN:N	3:A6:548:LEU:HD21	1.66	0.59
2:A4:735:ALA:H	3:A6:92:ASP:CG	2.11	0.59
2:A4:802:TYR:HB2	3:A6:397:LEU:HB3	1.84	0.59
2:A4:879:LEU:HD13	6:D3:564:ASN:ND2	2.16	0.59
2:A4:973:GLU:HG2	6:D3:192:TYR:HE2	1.67	0.59
2:A4:985:ALA:CB	6:D3:497:PHE:CA	2.80	0.59
2:A4:988:ARG:NH2	6:D3:498:GLU:O	2.35	0.59
2:A4:1243:SER:O	2:A4:1245:ASP:N	2.35	0.59
6:D5:500:LYS:HE2	31:c3:473:THR:HG23	1.84	0.59
6:D7:176:SER:HB3	11:I3:95:LYS:CE	2.33	0.59
8:F1:982:PRO:HB2	11:I1:1388:GLU:CG	2.31	0.59
8:F1:1265:GLN:CD	17:O2:257:ALA:O	2.44	0.59
9:G1:267:GLY:N	16:N2:414:ALA:C	2.60	0.59
11:I1:930:LEU:HD13	15:M1:598:GLU:CG	1.99	0.59
11:I1:939:ASN:O	17:O1:265:ASN:N	2.35	0.59
11:I1:980:ILE:HG12	15:M1:621:ARG:CB	2.33	0.59
11:I1:1604:ALA:C	11:I2:1739:GLU:C	2.70	0.59
11:I2:840:LEU:HB3	17:O3:247:TRP:NE1	2.15	0.59
11:I2:1037:THR:CB	15:M3:624:ASN:HD21	2.14	0.59
17:O3:147:ALA:C	18:P3:328:PRO:HB3	2.28	0.59
21:S1:1083:TRP:HA	21:S1:1083:TRP:CE3	2.38	0.59
22:T1:724:TYR:CZ	31:c5:28:LYS:CA	2.85	0.59
22:T1:813:VAL:O	22:T1:817:MET:HG2	2.02	0.59
22:T1:826:GLY:CA	31:c5:23:ARG:NH1	2.53	0.59
23:U1:13:THR:O	23:U1:17:ASP:N	2.24	0.59
23:U1:140:PRO:CA	31:c1:498:GLN:O	2.51	0.59
23:U2:45:ALA:CA	31:c4:473:THR:OG1	2.50	0.59
23:U3:211:ILE:HG23	24:V3:321:VAL:HG11	1.85	0.59
24:V2:152:ALA:HB1	24:V2:160:LEU:CD1	2.33	0.59
24:V4:525:ASP:O	24:V4:528:LEU:HB2	2.02	0.59
25:W3:205:ASP:HB3	25:W3:227:GLN:HB3	1.85	0.59
28:Z1:526:ARG:HD3	30:b1:207:GLY:HA3	1.84	0.59
28:Z1:596:PHE:CZ	28:Z1:704:SER:HA	2.38	0.59
28:Z3:410:ASN:ND2	30:b3:252:ALA:N	2.47	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:527:SER:C	30:b3:184:SER:OG	2.46	0.59
28:Z3:561:GLN:CG	30:b3:236:THR:C	2.75	0.59
28:Z4:410:ASN:HD22	30:b4:251:ILE:C	2.11	0.59
28:Z4:561:GLN:HG3	30:b4:235:LEU:C	2.26	0.59
30:b1:304:LEU:HD22	30:b1:305:PRO:HD2	1.85	0.59
30:b3:160:VAL:HB	30:b3:187:GLY:HA3	1.83	0.59
1:A3:1113:GLU:O	3:A6:590:SER:OG	2.20	0.59
1:A3:1236:GLN:OE1	3:A6:578:ILE:CG1	2.50	0.59
1:A3:1267:GLN:OE1	3:A6:551:GLN:N	2.36	0.59
1:A3:1325:MET:HE3	3:A6:125:VAL:CG2	2.32	0.59
2:A4:80:LYS:HG2	3:A6:386:ALA:CB	2.32	0.59
2:A4:679:TYR:CE2	3:A6:511:PHE:O	2.48	0.59
2:A4:779:ASP:O	6:D3:679:ILE:CB	2.51	0.59
2:A4:878:LEU:HB2	6:D3:567:LEU:HB3	1.85	0.59
2:A4:885:LEU:HD13	3:A6:172:PRO:O	2.03	0.59
2:A4:904:GLN:HG2	6:D3:603:SER:CB	2.31	0.59
2:A4:917:LEU:CG	4:B6:342:ARG:HD2	2.32	0.59
2:A4:1092:ASN:HD21	6:D4:708:ASP:HB2	1.68	0.59
3:A5:996:ASN:CG	11:I5:54:LYS:O	2.45	0.59
3:A6:520:GLU:HG2	6:D3:639:LEU:HB2	1.85	0.59
3:A6:1416:ARG:C	28:Z4:1002:MET:N	2.61	0.59
8:F1:197:ASP:OD1	8:F1:295:GLN:NE2	2.36	0.59
8:F2:230:GLU:OE1	8:F2:230:GLU:N	2.35	0.59
11:I1:1056:PRO:N	17:O1:278:GLU:CG	2.47	0.59
11:I2:797:LEU:CD2	17:O3:245:GLU:CA	2.81	0.59
11:I2:883:ALA:HA	17:O3:242:ARG:O	2.03	0.59
11:I2:945:LEU:HA	17:O3:255:GLY:O	2.02	0.59
11:I2:1255:HIS:ND1	11:I2:1255:HIS:O	2.35	0.59
11:I2:1487:ASP:OD1	11:I2:1488:THR:N	2.35	0.59
11:I3:1280:PRO:CG	26:X1:539:TYR:HE2	2.16	0.59
11:I5:921:GLU:N	11:I5:921:GLU:OE1	2.35	0.59
23:U1:18:THR:CB	31:c2:473:THR:HG23	2.25	0.59
23:U1:398:ILE:CA	31:c2:476:PRO:HG3	2.22	0.59
23:U2:18:THR:HG21	31:c4:559:ILE:HG21	1.85	0.59
23:U2:22:PHE:CD1	31:c4:531:TRP:CZ2	2.73	0.59
23:U2:398:ILE:CG1	31:c4:531:TRP:C	2.71	0.59
23:U4:211:ILE:HG23	24:V4:321:VAL:HG11	1.85	0.59
24:V1:525:ASP:O	24:V1:528:LEU:HB2	2.02	0.59
24:V2:297:LEU:HD23	24:V2:300:LEU:HD12	1.84	0.59
24:V4:152:ALA:HB1	24:V4:160:LEU:CD1	2.32	0.59
24:V4:426:TYR:O	24:V4:464:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:258:LEU:HD22	26:X2:292:LEU:HD22	1.85	0.59
28:Z1:555:LYS:HB2	30:b1:233:TRP:CE3	2.37	0.59
28:Z2:829:SER:HA	28:Z2:841:ALA:HB1	1.81	0.59
2:A2:858:ALA:C	6:D1:606:LYS:CE	2.47	0.59
2:A2:986:THR:OG1	6:D1:497:PHE:HZ	1.80	0.59
1:A3:1164:TYR:HD1	3:A6:643:ALA:C	2.09	0.59
1:A3:1271:ILE:HG23	3:A6:553:ASP:HB2	0.60	0.59
2:A4:85:VAL:HG11	3:A6:395:MET:CA	2.33	0.59
2:A4:173:ASN:ND2	6:D3:762:ARG:CA	2.66	0.59
2:A4:544:PHE:N	3:A6:362:PHE:C	2.56	0.59
2:A4:607:ARG:HD3	3:A6:505:ALA:HB3	1.85	0.59
2:A4:615:LEU:CB	3:A6:509:LYS:H	2.15	0.59
2:A4:635:ARG:NH2	3:A6:601:PHE:N	2.47	0.59
2:A4:724:LEU:HD21	3:A6:499:ILE:HD12	1.83	0.59
2:A4:780:GLU:CD	6:D3:679:ILE:HG21	2.25	0.59
2:A4:806:PHE:HE2	3:A6:395:MET:HE3	1.59	0.59
2:A4:946:LYS:HB3	4:B6:350:GLU:C	2.21	0.59
2:A4:975:GLU:CG	6:D3:499:LEU:CB	2.80	0.59
2:A4:1057:PHE:CD2	2:A4:1096:ILE:HD13	2.37	0.59
3:A5:1004:HIS:HE2	11:I5:58:ALA:C	2.09	0.59
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CB	2.31	0.59
3:A5:1381:ALA:CB	28:Z2:810:ASP:HA	2.33	0.59
3:A6:1364:GLN:CB	28:Z4:876:LEU:O	2.50	0.59
3:A6:1368:GLN:C	28:Z4:874:ASN:CB	2.75	0.59
11:I1:884:LEU:CD2	17:O1:246:LEU:HD11	2.05	0.59
11:I1:1048:GLU:HA	20:R1:143:PHE:CD1	2.36	0.59
11:I2:841:PHE:CA	15:M3:591:ASP:CG	2.76	0.59
11:I2:877:ILE:CB	17:O3:251:ILE:O	2.32	0.59
11:I2:884:LEU:HD12	16:N3:400:LEU:CD2	2.33	0.59
11:I2:1039:ALA:HB2	20:R3:169:GLY:C	2.28	0.59
21:S1:658:SER:C	21:S2:1105:LEU:HD11	2.20	0.59
21:S1:671:ALA:CB	21:S2:1146:ALA:CB	2.80	0.59
21:S2:933:GLU:OE2	21:S2:934:HIS:HB3	2.02	0.59
26:X2:363:TYR:O	34:i:418:LEU:O	2.20	0.59
28:Z1:558:LEU:N	30:b1:235:LEU:O	2.36	0.59
28:Z1:609:GLY:O	28:Z1:613:ILE:HG22	2.02	0.59
28:Z3:555:LYS:HB2	30:b3:233:TRP:CE3	2.38	0.59
28:Z4:535:ILE:CG1	30:b4:182:PRO:HB2	1.90	0.59
28:Z4:609:GLY:O	28:Z4:613:ILE:HG22	2.02	0.59
2:A2:864:ARG:NH2	6:D1:634:ASN:HB2	2.18	0.59
2:A2:980:ARG:CZ	6:D1:524:ARG:O	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1130:ARG:HB3	3:A6:651:GLN:HG2	1.85	0.59
1:A3:1188:ASN:CB	3:A6:645:PHE:CD1	2.83	0.59
1:A3:1193:SER:N	3:A6:615:LEU:H	2.01	0.59
1:A3:1201:ARG:CG	2:A4:735:ALA:N	2.66	0.59
1:A3:1224:PRO:CA	2:A4:731:ILE:CD1	2.54	0.59
1:A3:1236:GLN:H	3:A6:581:LYS:N	1.91	0.59
2:A4:545:GLY:H	3:A6:364:HIS:C	2.10	0.59
2:A4:613:ALA:O	3:A6:511:PHE:HZ	1.84	0.59
2:A4:674:ASP:HB3	3:A6:99:ASP:O	1.85	0.59
2:A4:688:TRP:CZ3	3:A6:395:MET:HE2	2.38	0.59
2:A4:705:ILE:N	3:A6:464:PRO:HD2	2.09	0.59
2:A4:722:ASN:N	3:A6:572:ARG:NH2	2.21	0.59
2:A4:735:ALA:N	3:A6:92:ASP:HB3	2.18	0.59
2:A4:779:ASP:HA	3:A6:487:ASP:H	1.68	0.59
2:A4:780:GLU:HG2	6:D3:679:ILE:HG12	0.77	0.59
2:A4:856:PHE:CA	3:A6:167:TRP:NE1	2.66	0.59
2:A4:880:ALA:H	6:D3:564:ASN:HB2	1.67	0.59
3:A5:153:ILE:CD1	5:C2:739:MET:HE1	2.26	0.59
3:A5:166:LEU:HB2	5:C2:740:ARG:HD2	1.84	0.59
3:A5:1378:GLY:CA	28:Z2:812:LEU:HA	2.33	0.59
11:I1:834:SER:N	17:O1:237:PRO:O	2.36	0.59
11:I1:1047:CYS:O	20:R1:143:PHE:CZ	2.54	0.59
11:I1:1543:LEU:CD1	11:I2:1677:LYS:CE	2.66	0.59
11:I2:950:LEU:HD22	16:N3:410:MET:HE3	1.83	0.59
11:I2:978:LYS:HE2	20:R3:154:ALA:H	1.67	0.59
11:I2:1041:GLN:O	17:O3:275:LEU:CD1	2.51	0.59
11:I2:1065:SER:HA	17:O3:274:GLY:CA	2.33	0.59
11:I2:1067:PHE:N	16:N3:430:ARG:HG3	2.16	0.59
11:I5:988:GLU:N	11:I5:988:GLU:OE1	2.34	0.59
21:S4:950:HIS:HE1	21:S4:995:MET:HE1	1.67	0.59
22:T3:813:VAL:O	22:T3:817:MET:HG2	2.02	0.59
22:T4:875:LEU:HD13	22:T4:919:LEU:HA	1.83	0.59
23:U2:405:GLU:HB3	31:c4:544:VAL:CG2	2.20	0.59
24:V2:683:LYS:CA	31:c2:53:ILE:HG22	2.32	0.59
24:V3:426:TYR:O	24:V3:464:ARG:NH2	2.36	0.59
26:X3:162:VAL:O	26:X3:166:ASP:HB3	2.03	0.59
28:Z2:555:LYS:HG3	30:b2:233:TRP:CE3	2.24	0.59
28:Z2:555:LYS:HB2	30:b2:233:TRP:CE3	2.37	0.59
28:Z2:556:ASN:CG	30:b2:166:LEU:HD22	2.27	0.59
28:Z3:410:ASN:HD22	30:b3:251:ILE:C	2.11	0.59
28:Z3:609:GLY:O	28:Z3:613:ILE:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:554:PHE:CE2	30:b4:234:LEU:CA	2.84	0.59
1:A1:868:GLN:O	6:D3:277:ASN:HB3	2.01	0.58
1:A1:873:PRO:HG3	6:D3:218:LYS:HZ3	1.65	0.58
2:A2:782:VAL:H	6:D1:676:ALA:C	2.09	0.58
2:A2:1139:ILE:CG1	3:A5:130:ILE:HG21	2.01	0.58
2:A2:1142:PHE:HD1	3:A5:130:ILE:HG13	1.67	0.58
2:A2:1161:ALA:HA	3:A5:165:PHE:CZ	2.36	0.58
1:A3:1227:PRO:HD2	3:A6:551:GLN:N	2.08	0.58
1:A3:1263:ILE:CG2	3:A6:715:GLU:HB2	2.33	0.58
2:A4:671:SER:HB2	3:A6:505:ALA:CB	2.33	0.58
2:A4:672:ARG:CG	3:A6:96:PRO:CG	0.88	0.58
2:A4:717:VAL:CA	3:A6:512:GLU:CD	2.67	0.58
2:A4:778:PHE:H	3:A6:481:ARG:HH11	0.62	0.58
2:A4:851:ASP:OD2	3:A6:229:SER:C	2.46	0.58
2:A4:908:LEU:HD21	6:D3:601:PHE:HB2	1.83	0.58
2:A4:978:ASP:N	6:D3:492:VAL:HG12	2.16	0.58
2:A4:1054:SER:HB3	6:D4:762:ARG:CZ	2.32	0.58
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB3	1.84	0.58
3:A5:1368:GLN:CB	28:Z2:841:ALA:C	2.74	0.58
3:A6:444:ARG:O	6:D3:719:LEU:C	2.45	0.58
6:D3:738:SER:OG	6:D3:740:GLU:OE1	2.21	0.58
11:I1:920:PHE:H	16:N1:393:ILE:CG1	2.16	0.58
11:I1:950:LEU:CG	15:M1:606:LEU:HD21	2.32	0.58
11:I1:957:SER:HB2	20:R1:168:LEU:HA	1.83	0.58
11:I1:1066:LEU:CA	16:N1:430:ARG:CD	2.81	0.58
11:I1:1109:LEU:HB3	16:N1:437:VAL:O	2.02	0.58
11:I1:1363:GLU:OE1	11:I1:1366:ARG:NH2	2.36	0.58
11:I2:833:PHE:CZ	17:O3:245:GLU:OE1	2.55	0.58
11:I2:896:PRO:O	17:O3:232:LYS:CB	2.47	0.58
11:I2:922:ASP:OD1	15:M3:593:ALA:HB2	2.02	0.58
11:I2:948:ALA:HB3	17:O3:256:TYR:CA	2.33	0.58
11:I2:957:SER:N	20:R3:167:GLN:O	2.35	0.58
11:I3:1255:HIS:ND1	11:I3:1255:HIS:O	2.35	0.58
11:I5:1279:THR:HG21	26:X2:521:TRP:N	2.14	0.58
22:T1:741:ASP:OD1	31:c5:24:GLN:CA	2.48	0.58
23:U2:39:ILE:N	31:c4:559:ILE:HB	2.17	0.58
23:U2:71:GLU:OE1	23:U2:75:TRP:NE1	2.36	0.58
23:U2:398:ILE:HG23	31:c4:531:TRP:C	2.09	0.58
24:V4:297:LEU:HD23	24:V4:300:LEU:HD12	1.84	0.58
25:W1:205:ASP:HB3	25:W1:227:GLN:HB3	1.85	0.58
26:X1:258:LEU:HD22	26:X1:292:LEU:HD22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:401:LYS:HZ2	37:k2:450:HIS:CB	2.11	0.58
26:X2:307:LYS:N	34:i:405:TYR:CD1	2.70	0.58
28:Z2:555:LYS:HA	30:b2:234:LEU:N	2.12	0.58
28:Z3:245:ILE:HB	28:Z3:255:GLN:HB2	1.84	0.58
28:Z3:535:ILE:HD11	30:b3:182:PRO:HG3	1.85	0.58
28:Z3:772:GLN:CB	30:b3:136:PHE:HE1	2.16	0.58
31:c5:589:LEU:HD13	31:c5:594:ASP:HB3	1.85	0.58
2:A2:226:PRO:O	6:D1:709:ARG:O	2.21	0.58
2:A2:868:GLN:O	6:D1:598:ILE:CB	2.47	0.58
2:A2:868:GLN:CA	6:D1:598:ILE:HD13	2.33	0.58
2:A2:980:ARG:CZ	6:D1:503:LEU:CB	2.70	0.58
1:A3:1083:SER:HB2	6:D3:798:MET:CE	1.11	0.58
1:A3:1201:ARG:O	3:A6:546:ASN:ND2	2.36	0.58
1:A3:1231:VAL:HG12	3:A6:617:VAL:HG22	1.82	0.58
1:A3:1235:ILE:HG12	3:A6:617:VAL:HG11	1.84	0.58
1:A3:1239:ALA:CA	3:A6:584:GLY:N	2.64	0.58
1:A3:1285:LEU:CD1	3:A6:581:LYS:CB	2.73	0.58
1:A3:1285:LEU:CD1	3:A6:581:LYS:CA	2.65	0.58
2:A4:93:ASP:HB2	3:A6:429:LEU:H	1.65	0.58
2:A4:576:VAL:CG1	3:A6:509:LYS:HD3	2.32	0.58
2:A4:691:LYS:HZ2	3:A6:316:ARG:HB2	1.67	0.58
2:A4:703:SER:N	3:A6:465:SER:C	2.58	0.58
2:A4:722:ASN:HA	3:A6:572:ARG:HH22	1.67	0.58
2:A4:764:MET:HG3	3:A6:473:PRO:O	1.61	0.58
2:A4:863:GLN:N	3:A6:132:ASP:CB	2.66	0.58
2:A4:947:LYS:HB2	4:B6:352:ALA:HB2	1.84	0.58
2:A4:949:PHE:CA	4:B6:348:PRO:HD2	2.32	0.58
2:A4:1094:ILE:CD1	6:D4:708:ASP:N	2.64	0.58
3:A6:518:GLU:HG3	6:D3:690:TYR:CE2	2.37	0.58
6:D7:738:SER:OG	6:D7:740:GLU:OE1	2.21	0.58
8:F1:1336:GLU:N	8:F1:1336:GLU:OE1	2.36	0.58
9:G2:257:THR:CG2	17:O4:257:ALA:N	2.66	0.58
11:I1:840:LEU:O	15:M1:591:ASP:OD2	2.22	0.58
11:I1:846:ILE:HG21	15:M1:591:ASP:C	2.28	0.58
11:I1:882:LYS:HG3	17:O1:249:ARG:HB2	1.85	0.58
11:I1:1055:GLU:HG3	17:O1:277:GLU:O	2.03	0.58
11:I1:1066:LEU:CA	16:N1:430:ARG:CB	2.80	0.58
11:I1:1109:LEU:HD11	17:O1:290:TYR:CE2	1.12	0.58
11:I2:834:SER:CB	17:O3:237:PRO:O	2.50	0.58
11:I2:873:ILE:HG22	17:O3:255:GLY:HA2	1.84	0.58
11:I2:925:LEU:O	20:R3:155:GLU:CA	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1039:ALA:C	20:R3:170:LEU:CD1	2.76	0.58
11:I3:1433:THR:HG21	12:J3:270:ARG:CD	2.33	0.58
11:I4:1363:GLU:OE1	11:I4:1366:ARG:NH2	2.36	0.58
22:T1:724:TYR:OH	31:c5:28:LYS:CA	2.51	0.58
22:T1:833:ARG:NE	31:c5:20:PRO:HD2	2.18	0.58
22:T2:842:ARG:O	22:T2:846:MET:HG3	2.02	0.58
23:U1:211:ILE:HG23	24:V1:321:VAL:HG11	1.85	0.58
23:U2:398:ILE:CD1	31:c4:535:VAL:CG1	2.65	0.58
23:U2:431:ILE:H	31:c4:464:LEU:HB3	1.66	0.58
23:U2:435:PHE:HB2	31:c4:540:HIS:CG	2.14	0.58
24:V2:525:ASP:O	24:V2:528:LEU:HB2	2.02	0.58
26:X1:534:ILE:O	26:X1:538:ILE:HG12	2.02	0.58
26:X2:163:LYS:HD2	26:X2:172:PHE:CZ	2.38	0.58
26:X2:369:GLU:HG2	34:i:428:LEU:HD22	0.59	0.58
26:X4:534:ILE:O	26:X4:538:ILE:HG12	2.02	0.58
28:Z1:527:SER:C	30:b1:184:SER:OG	2.46	0.58
28:Z2:596:PHE:CZ	28:Z2:704:SER:HA	2.38	0.58
28:Z3:526:ARG:HD3	30:b3:207:GLY:HA3	1.85	0.58
28:Z3:556:ASN:CG	30:b3:166:LEU:HD22	2.28	0.58
28:Z4:596:PHE:CZ	28:Z4:704:SER:HA	2.38	0.58
31:c3:439:TRP:CG	31:c3:517:LEU:HD13	2.38	0.58
31:c5:439:TRP:CG	31:c5:517:LEU:HD13	2.38	0.58
1:A1:868:GLN:O	6:D3:280:GLN:HB3	2.02	0.58
2:A2:226:PRO:HG2	6:D1:707:ILE:O	2.04	0.58
2:A2:965:LYS:O	6:D1:196:ILE:HA	2.03	0.58
2:A2:965:LYS:CD	6:D1:196:ILE:O	2.51	0.58
2:A2:968:SER:OG	6:D1:200:HIS:CB	2.40	0.58
1:A3:1183:LEU:HD13	3:A6:635:ARG:CA	2.31	0.58
1:A3:1257:VAL:HA	3:A6:719:ARG:HH22	1.65	0.58
2:A4:87:GLN:HG3	3:A6:408:ALA:H	1.60	0.58
2:A4:704:THR:O	3:A6:462:LEU:C	2.47	0.58
2:A4:720:LEU:CD2	3:A6:499:ILE:HD12	2.31	0.58
2:A4:757:LEU:CG	3:A6:543:GLY:CA	2.81	0.58
2:A4:781:ARG:HH12	3:A6:522:GLY:CA	2.15	0.58
2:A4:890:ALA:CB	3:A6:175:GLU:OE2	2.51	0.58
3:A5:1022:SER:O	11:I5:95:LYS:HB2	1.77	0.58
3:A5:1381:ALA:HA	28:Z2:810:ASP:HA	1.85	0.58
3:A6:135:PHE:CD2	6:D3:606:LYS:HB3	2.38	0.58
6:D5:238:ALA:C	31:c3:470:ARG:O	2.46	0.58
8:F1:1832:ASN:OD1	8:F1:1833:ARG:N	2.36	0.58
8:F2:197:ASP:OD1	8:F2:295:GLN:NE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:421:SER:O	11:I1:425:HIS:ND1	2.33	0.58
11:I1:954:GLU:O	16:N1:399:HIS:HA	2.02	0.58
11:I1:978:LYS:O	15:M1:621:ARG:HD3	2.03	0.58
11:I1:1639:LEU:HD22	11:I2:1670:GLY:HA2	1.85	0.58
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CG	2.66	0.58
11:I2:877:ILE:HG13	17:O3:254:ARG:HB3	0.60	0.58
11:I2:925:LEU:HD12	15:M3:597:LYS:HE3	1.85	0.58
11:I2:945:LEU:C	17:O3:260:LEU:H	2.11	0.58
11:I2:953:LEU:HD11	15:M3:602:MET:O	2.03	0.58
11:I2:963:LEU:HD23	20:R3:168:LEU:HD11	1.81	0.58
11:I2:988:GLU:O	15:M3:608:LYS:HG2	2.02	0.58
11:I2:1104:LEU:HB3	16:N3:432:TYR:O	2.03	0.58
21:S2:429:SER:HB2	21:S2:436:SER:CB	2.34	0.58
21:S3:1083:TRP:HA	21:S3:1083:TRP:CE3	2.38	0.58
23:U1:172:LYS:O	31:c1:505:SER:HA	2.03	0.58
23:U2:39:ILE:N	31:c4:559:ILE:CG1	2.55	0.58
23:U2:83:VAL:HG23	31:c4:557:HIS:ND1	2.02	0.58
23:U2:410:SER:CA	31:c4:540:HIS:C	2.74	0.58
23:U2:440:ASP:OD2	31:c4:428:ARG:HB2	2.02	0.58
23:U3:279:TYR:CE1	25:W4:190:ASP:OD1	2.56	0.58
25:W1:217:LEU:HD22	25:W1:218:LEU:H	1.69	0.58
26:X1:453:ASP:HB3	27:Y1:225:GLY:O	2.04	0.58
26:X2:191:ILE:HD12	34:i:443:THR:HB	1.85	0.58
26:X2:332:ILE:HG22	34:i:477:GLY:HA2	1.85	0.58
28:Z1:245:ILE:HB	28:Z1:255:GLN:HB2	1.84	0.58
28:Z1:556:ASN:CG	30:b1:166:LEU:HD22	2.27	0.58
28:Z3:558:LEU:N	30:b3:235:LEU:O	2.36	0.58
28:Z4:329:TRP:HB3	28:Z4:355:TRP:HB3	1.85	0.58
28:Z4:526:ARG:HB3	30:b4:206:ASN:HB2	1.79	0.58
30:b1:384:ARG:HH21	30:b1:389:THR:HG21	1.67	0.58
30:b2:304:LEU:HD22	30:b2:305:PRO:HD2	1.85	0.58
31:c4:589:LEU:HD13	31:c4:594:ASP:HB3	1.85	0.58
32:g:390:MET:CE	32:g:398:LEU:HD21	2.27	0.58
33:h:77:VAL:HG13	33:h:295:ILE:HG23	1.84	0.58
2:A2:224:PRO:N	6:D1:709:ARG:NH1	2.50	0.58
2:A2:825:ARG:HH12	6:D1:679:ILE:HD13	1.68	0.58
2:A2:978:ASP:O	6:D1:473:GLU:CA	2.50	0.58
2:A2:981:PRO:HG2	6:D1:504:LYS:HG2	1.80	0.58
2:A2:988:ARG:N	6:D1:500:LYS:HZ1	2.01	0.58
2:A2:1142:PHE:CE2	3:A5:169:TYR:HB2	2.39	0.58
1:A3:1182:ILE:HG22	3:A6:639:ASN:CB	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:540:GLN:N	3:A6:360:ARG:N	2.38	0.58
2:A4:689:LYS:HE2	3:A6:406:LEU:HD13	1.86	0.58
2:A4:773:PHE:CD1	3:A6:469:PHE:CE2	2.90	0.58
2:A4:868:GLN:CG	6:D3:608:ILE:HG21	2.32	0.58
2:A4:911:TYR:OH	6:D3:555:ARG:NH2	2.37	0.58
2:A4:982:THR:HB	6:D3:494:LEU:O	1.97	0.58
3:A5:175:GLU:OE2	5:C2:735:ILE:CG1	2.48	0.58
3:A5:1310:ARG:HE	28:Z2:827:GLN:CB	2.15	0.58
6:D1:738:SER:OG	6:D1:740:GLU:OE1	2.22	0.58
6:D4:738:SER:OG	6:D4:740:GLU:OE1	2.22	0.58
8:F1:856:GLU:N	8:F1:856:GLU:OE1	2.36	0.58
8:F2:171:PHE:O	8:F2:180:ARG:NH2	2.36	0.58
11:I1:846:ILE:HG21	15:M1:591:ASP:O	2.03	0.58
11:I2:527:THR:O	11:I2:531:ASN:ND2	2.34	0.58
11:I2:977:ASN:ND2	15:M3:621:ARG:C	2.61	0.58
11:I2:1041:GLN:NE2	15:M3:614:ASP:CG	2.61	0.58
21:S1:429:SER:HB2	21:S1:436:SER:CB	2.34	0.58
21:S1:1124:ASP:O	21:S1:1127:GLN:N	2.32	0.58
21:S3:680:PRO:CB	21:S4:1097:LYS:CE	2.82	0.58
21:S4:429:SER:HB2	21:S4:436:SER:CB	2.33	0.58
23:U1:138:ASN:OD1	31:c1:500:LYS:HG3	1.78	0.58
23:U2:75:TRP:HZ2	31:c4:477:GLU:HG3	1.66	0.58
23:U2:83:VAL:HA	31:c4:557:HIS:NE2	2.04	0.58
24:V2:426:TYR:O	24:V2:464:ARG:NH2	2.36	0.58
26:X2:162:VAL:O	26:X2:166:ASP:HB3	2.03	0.58
26:X2:332:ILE:HD12	34:i:476:LEU:O	2.02	0.58
26:X3:227:VAL:C	26:X3:229:SER:H	2.12	0.58
26:X4:162:VAL:O	26:X4:166:ASP:HB3	2.03	0.58
28:Z1:554:PHE:CE2	30:b1:234:LEU:CA	2.84	0.58
28:Z2:772:GLN:CB	30:b2:136:PHE:HE1	2.16	0.58
28:Z4:535:ILE:HD11	30:b4:182:PRO:HG3	1.86	0.58
28:Z4:555:LYS:HB2	30:b4:233:TRP:CE3	2.38	0.58
31:c2:439:TRP:CG	31:c2:517:LEU:HD13	2.38	0.58
32:g:42:LEU:HD13	32:g:366:VAL:HG22	1.85	0.58
1:A1:870:HIS:CB	6:D3:279:HIS:O	2.49	0.58
1:A1:1233:GLN:NE2	2:A2:722:ASN:OD1	2.36	0.58
2:A2:879:LEU:HD12	6:D1:564:ASN:OD1	2.02	0.58
2:A2:969:ASP:N	6:D1:196:ILE:HA	2.17	0.58
2:A2:989:MSE:HE1	6:D1:240:ASP:CG	2.28	0.58
1:A3:1186:TRP:CE3	3:A6:637:THR:HG22	2.35	0.58
1:A3:1186:TRP:NE1	3:A6:640:LEU:HB2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1241:ARG:NH2	3:A6:596:ARG:NE	2.51	0.58
1:A3:1259:CYS:SG	3:A6:624:ASP:CB	2.87	0.58
2:A4:89:LEU:HD12	3:A6:394:LEU:O	2.03	0.58
2:A4:727:ASN:CG	3:A6:605:TYR:CB	2.76	0.58
2:A4:767:ILE:C	3:A6:477:PHE:HD2	2.10	0.58
2:A4:770:GLY:HA3	3:A6:469:PHE:CA	2.18	0.58
2:A4:807:SER:HB2	3:A6:383:PRO:O	2.04	0.58
2:A4:813:GLU:OE2	3:A6:191:LEU:C	2.47	0.58
3:A6:483:HIS:CD2	6:D3:675:ARG:CD	2.85	0.58
6:D5:238:ALA:HB3	31:c3:478:SER:OG	2.04	0.58
6:D7:512:LEU:CB	11:I3:181:GLN:N	2.66	0.58
8:F1:1137:GLN:HG3	17:O2:248:SER:CB	2.19	0.58
11:I1:841:PHE:O	15:M1:588:MET:N	2.36	0.58
11:I1:877:ILE:C	17:O1:252:VAL:N	2.50	0.58
11:I1:950:LEU:HB3	16:N1:403:VAL:O	2.03	0.58
11:I1:953:LEU:CD2	15:M1:599:ILE:O	2.51	0.58
11:I1:985:ARG:NH1	20:R1:151:LYS:HE3	2.18	0.58
11:I1:1031:ALA:O	20:R1:173:LEU:HA	2.04	0.58
11:I1:1043:LEU:HD22	16:N1:430:ARG:CA	2.32	0.58
11:I1:1642:LEU:HD13	11:I2:1669:ARG:CZ	2.30	0.58
11:I2:961:ARG:HH21	16:N3:388:LYS:C	1.98	0.58
11:I2:997:SER:HB3	16:N3:427:VAL:HG23	1.82	0.58
11:I2:1025:LEU:CD2	20:R3:170:LEU:CD1	2.82	0.58
11:I2:1028:CYS:O	20:R3:169:GLY:C	2.46	0.58
11:I2:1053:GLY:HA3	17:O3:281:ALA:O	1.58	0.58
11:I3:921:GLU:N	11:I3:921:GLU:OE1	2.35	0.58
15:M3:608:LYS:HZ1	17:O3:271:GLU:HG2	1.68	0.58
21:S4:349:CYS:HA	21:S4:412:PHE:CE2	2.39	0.58
21:S4:991:LYS:O	21:S4:995:MET:HB2	2.04	0.58
23:U2:38:ILE:HD12	31:c4:531:TRP:CE2	2.32	0.58
23:U2:405:GLU:N	31:c4:544:VAL:CG2	2.28	0.58
23:U2:435:PHE:CD1	31:c4:461:PHE:HD1	2.14	0.58
23:U4:210:MET:O	24:V4:325:TYR:OH	2.21	0.58
26:X1:163:LYS:HD2	26:X1:172:PHE:CZ	2.38	0.58
27:Y1:123:LEU:HB2	27:Y1:139:ALA:HB3	1.86	0.58
27:Y2:219:SER:HG	27:Y2:312:TRP:CD1	2.21	0.58
27:Y4:123:LEU:HB2	27:Y4:139:ALA:HB3	1.86	0.58
28:Z2:410:ASN:HD22	30:b2:251:ILE:C	2.11	0.58
28:Z2:526:ARG:HD3	30:b2:207:GLY:HA3	1.85	0.58
28:Z2:554:PHE:CE2	30:b2:234:LEU:CA	2.84	0.58
28:Z4:524:VAL:C	30:b4:236:THR:HG21	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:558:LEU:HA	30:b4:236:THR:H	1.59	0.58
1:A1:1083:SER:HB3	6:D1:798:MET:HE2	1.85	0.58
2:A2:227:SER:CB	6:D1:708:ASP:O	2.50	0.58
2:A2:980:ARG:CG	6:D1:526:LEU:CB	2.81	0.58
1:A3:785:ILE:CD1	1:A3:825:ARG:HG2	2.31	0.58
1:A3:1166:LEU:O	3:A6:594:LEU:HB3	2.02	0.58
2:A4:719:ARG:HG2	3:A6:514:GLY:H	1.67	0.58
2:A4:774:VAL:HG23	3:A6:469:PHE:CE2	2.38	0.58
2:A4:859:GLN:HG2	3:A6:176:LEU:HD11	1.84	0.58
2:A4:876:ARG:NE	6:D3:565:MET:HG2	2.16	0.58
2:A4:973:GLU:C	6:D3:499:LEU:HG	2.29	0.58
3:A5:1046:LEU:CD1	11:I5:69:GLY:C	2.76	0.58
3:A5:1368:GLN:N	28:Z2:829:SER:CB	2.66	0.58
3:A6:1374:ALA:HB2	28:Z4:867:LYS:O	2.03	0.58
3:A6:1385:GLU:CB	28:Z4:907:LEU:CB	2.82	0.58
6:D2:570:VAL:HG11	6:D2:598:ILE:HD12	1.86	0.58
6:D4:570:VAL:HG11	6:D4:598:ILE:HD12	1.85	0.58
6:D7:570:VAL:HG11	6:D7:598:ILE:HD12	1.86	0.58
8:F1:1205:TRP:CD2	17:O2:254:ARG:HD3	2.36	0.58
11:I1:853:ILE:HG23	17:O1:254:ARG:CG	2.33	0.58
11:I1:873:ILE:CA	17:O1:251:ILE:HG23	2.33	0.58
11:I1:989:GLY:CA	15:M1:614:ASP:CG	2.77	0.58
11:I1:1055:GLU:HA	17:O1:281:ALA:CB	2.33	0.58
11:I2:895:ARG:N	17:O3:239:GLN:HB2	2.15	0.58
11:I2:950:LEU:HB2	16:N3:407:ALA:HB2	1.85	0.58
11:I2:958:THR:CA	20:R3:168:LEU:HD21	2.23	0.58
11:I2:980:ILE:CD1	15:M3:622:VAL:HG22	2.20	0.58
11:I2:987:GLY:N	15:M3:613:ASP:CB	2.54	0.58
11:I2:1049:LEU:O	17:O3:287:LEU:O	2.16	0.58
11:I2:1363:GLU:OE1	11:I2:1366:ARG:NH2	2.36	0.58
11:I3:1274:HIS:HB3	26:X1:534:ILE:CG2	2.26	0.58
11:I4:1255:HIS:ND1	11:I4:1255:HIS:O	2.35	0.58
11:I4:1277:LEU:HD23	26:X3:517:ASP:OD2	2.04	0.58
21:S1:349:CYS:HA	21:S1:412:PHE:CE2	2.38	0.58
21:S1:680:PRO:CA	21:S2:1127:GLN:HE21	2.09	0.58
21:S1:796:ASN:CB	31:c4:408:ASN:CG	2.74	0.58
21:S4:947:GLU:CD	21:S4:947:GLU:H	2.12	0.58
22:T1:819:ASN:ND2	31:c5:57:GLU:HG3	2.18	0.58
22:T1:842:ARG:O	22:T1:846:MET:HG3	2.02	0.58
23:U1:201:LYS:HD2	31:c1:625:PRO:HD3	1.86	0.58
23:U1:437:ASN:CG	31:c2:540:HIS:HD2	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:211:ILE:HG23	24:V2:321:VAL:HG11	1.85	0.58
23:U2:398:ILE:HD13	31:c4:531:TRP:CD2	2.38	0.58
23:U3:277:LEU:CA	25:W4:192:GLN:HE22	2.13	0.58
23:U4:71:GLU:OE1	23:U4:75:TRP:NE1	2.36	0.58
24:V1:426:TYR:O	24:V1:464:ARG:NH2	2.36	0.58
24:V2:683:LYS:CB	31:c2:53:ILE:HG22	2.34	0.58
26:X2:191:ILE:HD12	34:i:443:THR:O	2.03	0.58
26:X2:197:VAL:HG12	34:i:367:GLU:HB3	1.84	0.58
26:X2:283:ASP:OD2	34:i:14:TRP:CZ3	2.57	0.58
26:X4:258:LEU:HD22	26:X4:292:LEU:HD22	1.85	0.58
27:Y2:42:THR:O	27:Y2:44:ASN:N	2.31	0.58
27:Y3:123:LEU:HB2	27:Y3:139:ALA:HB3	1.86	0.58
28:Z2:245:ILE:HB	28:Z2:255:GLN:HB2	1.84	0.58
28:Z2:555:LYS:HG3	30:b2:233:TRP:HA	1.83	0.58
28:Z4:526:ARG:HD3	30:b4:207:GLY:HA3	1.85	0.58
28:Z4:527:SER:C	30:b4:184:SER:OG	2.46	0.58
2:A2:1138:GLU:HB3	3:A5:147:LEU:HD21	1.85	0.58
2:A2:1153:LEU:CG	3:A5:173:ASN:HA	2.27	0.58
1:A3:1017:THR:C	6:D3:819:ASN:HB3	2.28	0.58
1:A3:1048:ARG:HH21	6:D3:815:GLU:HG2	1.69	0.58
1:A3:1161:ALA:CB	3:A6:647:GLU:O	2.51	0.58
1:A3:1285:LEU:CA	3:A6:581:LYS:CE	1.98	0.58
2:A4:80:LYS:CG	3:A6:323:THR:OG1	2.51	0.58
2:A4:85:VAL:HG22	3:A6:405:PHE:CD1	2.37	0.58
2:A4:544:PHE:HD1	3:A6:363:ALA:HB2	1.68	0.58
2:A4:610:THR:N	3:A6:103:ARG:NH1	2.47	0.58
2:A4:611:ILE:HG21	3:A6:508:LEU:CG	1.26	0.58
2:A4:685:ARG:NH2	3:A6:362:PHE:HE1	1.97	0.58
2:A4:761:GLN:OE1	3:A6:545:GLY:O	2.21	0.58
2:A4:789:LEU:CA	3:A6:145:THR:O	2.52	0.58
2:A4:858:ALA:HB1	3:A6:174:PRO:O	2.02	0.58
2:A4:865:ALA:HB2	6:D3:567:LEU:CD1	2.34	0.58
2:A4:885:LEU:O	3:A6:171:HIS:CE1	2.57	0.58
2:A4:951:GLU:HA	4:B6:346:LEU:HA	1.85	0.58
3:A5:1000:ASP:N	11:I5:62:GLU:CB	2.66	0.58
3:A5:1365:VAL:HG12	28:Z2:829:SER:O	2.03	0.58
3:A5:1392:ARG:NH1	28:Z2:866:GLU:CB	2.67	0.58
6:D5:738:SER:OG	6:D5:740:GLU:OE1	2.21	0.58
6:D7:537:ARG:NH2	11:I3:173:ARG:NH2	2.50	0.58
7:E3:91:VAL:HG22	7:E3:91:VAL:O	2.04	0.58
7:E7:91:VAL:HG22	7:E7:91:VAL:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1093:LEU:HD21	17:O2:241:SER:HA	1.86	0.58
8:F1:1264:ARG:O	17:O2:265:ASN:HB2	1.97	0.58
11:I1:937:TYR:HB3	17:O1:258:GLU:N	2.15	0.58
11:I1:1663:LYS:HE2	11:I2:1663:LYS:HE2	1.86	0.58
11:I2:874:LEU:O	17:O3:252:VAL:N	2.36	0.58
11:I2:1043:LEU:HD13	16:N3:434:LEU:N	2.19	0.58
11:I2:1055:GLU:HA	17:O3:281:ALA:HB2	1.86	0.58
11:I3:1363:GLU:OE1	11:I3:1366:ARG:NH2	2.36	0.58
11:I4:819:MET:CB	26:X3:501:LYS:CD	2.64	0.58
11:I4:1273:GLU:HG2	26:X3:520:GLU:O	2.03	0.58
21:S1:932:HIS:O	21:S1:933:GLU:CB	2.51	0.58
23:U2:412:LEU:O	31:c4:541:ARG:NH1	2.37	0.58
23:U2:413:ILE:CG2	31:c4:539:ILE:HG22	2.33	0.58
23:U2:437:ASN:HD21	31:c4:198:ARG:NH2	2.00	0.58
26:X2:294:GLN:OE1	34:i:452:ILE:N	2.29	0.58
26:X2:369:GLU:OE1	34:i:434:ASP:CG	2.47	0.58
26:X2:453:ASP:HB3	27:Y2:225:GLY:O	2.03	0.58
26:X3:453:ASP:HB3	27:Y3:225:GLY:O	2.04	0.58
26:X4:227:VAL:C	26:X4:229:SER:H	2.12	0.58
26:X4:453:ASP:HB3	27:Y4:225:GLY:O	2.04	0.58
28:Z2:549:LYS:CB	30:b2:182:PRO:HD3	2.34	0.58
28:Z2:555:LYS:HB3	30:b2:212:PHE:C	2.29	0.58
28:Z4:407:GLY:O	30:b4:251:ILE:HG12	2.01	0.58
28:Z4:549:LYS:CB	30:b4:182:PRO:HD3	2.34	0.58
31:c3:589:LEU:HD13	31:c3:594:ASP:HB3	1.85	0.58
1:A1:1052:THR:CG2	6:D1:812:VAL:HG12	2.27	0.58
1:A1:1391:ARG:NH1	2:A2:927:ARG:NH2	2.51	0.58
2:A2:1150:LEU:CD1	5:C2:731:LYS:CG	2.82	0.58
2:A2:1160:GLN:HE21	3:A5:166:LEU:N	1.78	0.58
1:A3:1194:HIS:NE2	3:A6:679:TYR:C	2.27	0.58
1:A3:1255:LEU:HB2	3:A6:634:ASP:CG	2.27	0.58
2:A4:861:GLN:HA	6:D3:607:PRO:HB3	1.83	0.58
2:A4:909:LYS:HG2	6:D3:552:TYR:CD1	2.39	0.58
2:A4:947:LYS:CE	3:A6:203:ILE:HG12	2.34	0.58
2:A4:1055:ARG:HG2	6:D4:762:ARG:HA	1.84	0.58
3:A5:222:ALA:HB1	5:C2:739:MET:CE	2.34	0.58
3:A5:1403:MSE:HB3	28:Z2:920:SER:H	1.66	0.58
6:D2:598:ILE:HD13	6:D2:608:ILE:CD1	2.34	0.58
6:D2:738:SER:OG	6:D2:740:GLU:OE1	2.22	0.58
8:F2:1832:ASN:OD1	8:F2:1833:ARG:N	2.36	0.58
9:G2:259:THR:O	17:O4:259:ASP:OD1	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:917:TYR:CD2	15:M1:586:ASP:O	2.57	0.58
11:I1:927:HIS:O	15:M1:597:LYS:HB3	1.66	0.58
11:I1:967:SER:O	15:M1:628:ALA:HB3	2.04	0.58
11:I1:980:ILE:CB	15:M1:618:GLN:HA	2.33	0.58
11:I1:1052:LEU:HB3	16:N1:438:LEU:HD11	0.59	0.58
11:I1:1055:GLU:OE2	17:O1:280:GLU:HG3	2.03	0.58
11:I1:1255:HIS:ND1	11:I1:1255:HIS:O	2.35	0.58
11:I1:1433:THR:HG21	12:J1:270:ARG:CD	2.33	0.58
11:I2:797:LEU:HD22	17:O3:245:GLU:N	2.19	0.58
11:I2:966:TRP:CA	20:R3:150:ASN:O	2.52	0.58
11:I2:1037:THR:HG23	20:R3:169:GLY:HA2	1.77	0.58
21:S2:184:ILE:HD11	21:S2:201:VAL:CG2	2.34	0.58
21:S3:349:CYS:HA	21:S3:412:PHE:CE2	2.38	0.58
21:S3:932:HIS:O	21:S3:933:GLU:CB	2.51	0.58
22:T2:836:ALA:C	31:c4:333:LEU:CD2	2.66	0.58
23:U2:34:ASP:N	31:c4:527:ARG:HH21	2.01	0.58
23:U2:38:ILE:CG2	31:c4:555:VAL:HG12	2.33	0.58
23:U2:438:GLU:HG2	31:c4:195:ILE:HD11	1.84	0.58
24:V4:180:LEU:HD21	24:V4:185:LEU:HD13	1.85	0.58
25:W2:205:ASP:HB3	25:W2:227:GLN:HB3	1.85	0.58
25:W4:217:LEU:HD22	25:W4:218:LEU:H	1.69	0.58
26:X2:191:ILE:CG2	34:i:443:THR:CG2	2.73	0.58
26:X2:244:TYR:O	26:X2:248:LEU:HG	2.02	0.58
26:X2:303:PHE:HE2	34:i:421:ILE:CD1	2.17	0.58
26:X2:321:ALA:N	34:i:84:ARG:HE	1.79	0.58
26:X4:265:ILE:C	26:X4:267:ARG:H	2.12	0.58
28:Z1:522:ASN:OD1	30:b1:241:PRO:CG	2.40	0.58
28:Z3:555:LYS:HB3	30:b3:212:PHE:C	2.29	0.58
28:Z3:561:GLN:HG3	30:b3:236:THR:N	2.17	0.58
30:b2:44:CYS:HB2	30:b2:61:LEU:HD11	1.85	0.58
2:A2:864:ARG:C	6:D1:607:PRO:HD2	2.24	0.58
1:A3:1164:TYR:CD1	3:A6:643:ALA:O	2.57	0.58
1:A3:1226:LEU:N	2:A4:725:GLU:HA	2.15	0.58
1:A3:1261:TYR:HD2	3:A6:679:TYR:CZ	2.15	0.58
1:A3:1271:ILE:CG1	3:A6:553:ASP:HB2	2.33	0.58
2:A4:77:PRO:HG2	3:A6:534:PRO:HB2	1.84	0.58
2:A4:611:ILE:CG2	3:A6:508:LEU:HG	0.25	0.58
2:A4:613:ALA:O	3:A6:509:LYS:NZ	2.32	0.58
2:A4:801:THR:O	3:A6:319:TYR:OH	2.20	0.58
2:A4:855:THR:HG22	3:A6:169:TYR:CA	2.34	0.58
2:A4:855:THR:CG2	3:A6:169:TYR:N	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:132:ASP:HB3	6:D3:607:PRO:CD	2.29	0.58
3:A6:442:ARG:HE	6:D3:692:LEU:CD2	2.13	0.58
3:A6:1338:ALA:CB	28:Z4:995:ARG:N	2.66	0.58
3:A6:1388:ALA:CB	28:Z4:904:PHE:O	2.52	0.58
6:D1:598:ILE:HD13	6:D1:608:ILE:CD1	2.34	0.58
6:D3:598:ILE:HD13	6:D3:608:ILE:CD1	2.34	0.58
6:D5:598:ILE:HD13	6:D5:608:ILE:CD1	2.34	0.58
9:G1:258:LYS:C	17:O2:252:VAL:HG12	2.28	0.58
11:I1:879:VAL:HG12	17:O1:247:TRP:CB	2.32	0.58
11:I1:918:SER:OG	16:N1:386:MET:C	2.47	0.58
11:I1:927:HIS:CD2	15:M1:594:LYS:CG	2.86	0.58
11:I1:1110:SER:HB3	16:N1:434:LEU:C	2.28	0.58
11:I1:1111:ALA:CB	16:N1:439:ARG:HH11	2.16	0.58
11:I2:841:PHE:O	15:M3:587:GLU:O	2.22	0.58
11:I2:1036:PRO:HD2	15:M3:626:HIS:CG	2.39	0.58
11:I4:1270:LYS:CB	26:X3:528:GLU:HB2	2.33	0.58
17:O3:147:ALA:HB3	18:P3:328:PRO:HG3	1.86	0.58
21:S2:349:CYS:HA	21:S2:412:PHE:CE2	2.39	0.58
21:S2:932:HIS:O	21:S2:933:GLU:CB	2.51	0.58
21:S2:947:GLU:H	21:S2:947:GLU:CD	2.12	0.58
21:S3:678:GLU:CA	21:S4:1141:GLU:CA	2.80	0.58
23:U2:38:ILE:HG13	31:c4:559:ILE:HA	1.86	0.58
23:U2:82:LEU:HB3	31:c4:557:HIS:CD2	2.39	0.58
23:U2:356:PRO:O	31:c4:544:VAL:O	2.21	0.58
24:V1:180:LEU:HD21	24:V1:185:LEU:HD13	1.85	0.58
26:X1:227:VAL:C	26:X1:229:SER:H	2.12	0.58
26:X2:227:VAL:C	26:X2:229:SER:H	2.12	0.58
28:Z1:555:LYS:HB3	30:b1:212:PHE:C	2.29	0.58
28:Z2:527:SER:C	30:b2:184:SER:OG	2.46	0.58
28:Z3:401:THR:HG22	30:b3:253:SER:H	1.69	0.58
28:Z3:522:ASN:OD1	30:b3:241:PRO:CB	2.47	0.58
28:Z4:521:SER:HG	30:b4:238:ASN:N	2.02	0.58
30:b3:44:CYS:HB2	30:b3:61:LEU:HD11	1.85	0.58
31:c2:599:MET:HE1	31:c2:653:THR:HG23	1.86	0.58
2:A2:1135:ARG:NH1	3:A5:147:LEU:CD2	2.65	0.58
1:A3:1235:ILE:CD1	3:A6:617:VAL:CG2	2.80	0.58
1:A3:1237:LEU:HD11	3:A6:119:TRP:CH2	2.38	0.58
2:A4:717:VAL:CG1	3:A6:474:GLY:O	2.51	0.58
2:A4:725:GLU:C	3:A6:575:LEU:HB2	2.29	0.58
2:A4:725:GLU:HG2	3:A6:574:ARG:HA	1.84	0.58
2:A4:801:THR:CG2	3:A6:381:LEU:HG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:886:PHE:HE1	3:A6:176:LEU:HD23	1.68	0.58
3:A5:186:ILE:CD1	5:C2:744:PHE:HB2	2.31	0.58
3:A5:1406:GLY:O	28:Z2:921:THR:CB	2.51	0.58
3:A6:115:SER:OG	6:D3:683:LYS:HG3	2.03	0.58
3:A6:132:ASP:OD2	6:D3:607:PRO:CB	2.49	0.58
3:A6:1410:ALA:CA	26:X4:686:ASP:CA	2.68	0.58
6:D5:783:SER:OG	31:c4:305:SER:HB2	2.00	0.58
6:D6:738:SER:OG	6:D6:740:GLU:OE1	2.21	0.58
8:F1:1267:ARG:HH22	17:O2:268:GLY:CA	2.16	0.58
9:G1:255:LEU:HA	17:O2:257:ALA:CB	2.34	0.58
11:I1:978:LYS:CE	20:R1:155:GLU:N	2.57	0.58
11:I1:1055:GLU:HB3	17:O1:281:ALA:N	2.19	0.58
11:I1:1113:LEU:CA	16:N1:435:ALA:HB1	2.34	0.58
11:I2:828:VAL:CG1	17:O3:237:PRO:CG	2.78	0.58
11:I2:886:LEU:HB3	17:O3:242:ARG:HA	1.85	0.58
11:I2:976:ARG:O	20:R3:150:ASN:CB	2.47	0.58
11:I3:1270:LYS:HZ3	26:X1:530:ARG:HG2	1.67	0.58
11:I4:921:GLU:N	11:I4:921:GLU:OE1	2.35	0.58
11:I4:1433:THR:HG21	12:J4:270:ARG:CD	2.33	0.58
11:I5:1433:THR:HG21	12:J5:270:ARG:CD	2.33	0.58
12:J1:249:ASP:OD1	12:J1:250:THR:N	2.37	0.58
21:S2:991:LYS:O	21:S2:995:MET:HB2	2.04	0.58
22:T2:779:GLN:N	22:T2:780:PRO:HD3	2.19	0.58
23:U2:343:ILE:HD13	23:U2:344:ARG:N	2.19	0.58
26:X1:159:ILE:HG22	26:X1:172:PHE:CE1	2.39	0.58
26:X1:244:TYR:O	26:X1:248:LEU:HG	2.02	0.58
26:X2:205:ILE:CA	34:i:445:GLN:C	2.77	0.58
26:X2:283:ASP:O	34:i:492:TRP:C	2.45	0.58
26:X3:258:LEU:HD22	26:X3:292:LEU:HD22	1.85	0.58
26:X3:271:LEU:O	26:X3:275:SER:HB3	2.04	0.58
28:Z2:524:VAL:C	30:b2:236:THR:HG21	2.29	0.58
28:Z2:535:ILE:HD11	30:b2:182:PRO:HG3	1.85	0.58
28:Z3:549:LYS:CB	30:b3:182:PRO:HD3	2.34	0.58
28:Z4:401:THR:CB	30:b4:253:SER:O	2.25	0.58
28:Z4:772:GLN:CB	30:b4:136:PHE:HE1	2.16	0.58
32:g:174:ILE:CG2	32:g:189:LEU:HB2	2.34	0.58
2:A2:225:THR:O	6:D1:708:ASP:HB2	2.04	0.57
2:A2:970:PHE:C	6:D1:202:GLN:HG2	2.26	0.57
2:A2:1124:ARG:CD	3:A5:136:GLU:OE2	2.24	0.57
1:A3:1048:ARG:NE	6:D3:819:ASN:ND2	2.27	0.57
1:A3:1231:VAL:CG1	3:A6:617:VAL:HG22	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:682:ARG:CZ	3:A6:103:ARG:O	2.52	0.57
2:A4:779:ASP:HA	3:A6:487:ASP:N	2.19	0.57
2:A4:900:THR:HB	3:A6:137:HIS:CG	2.38	0.57
2:A4:946:LYS:CD	4:B6:350:GLU:OE2	2.51	0.57
2:A4:1150:LEU:HD11	5:C4:731:LYS:HG3	1.84	0.57
3:A5:1029:ILE:N	11:I5:67:LYS:CA	2.64	0.57
3:A5:1135:ARG:NE	5:C5:743:LEU:HD12	2.18	0.57
3:A6:1338:ALA:CB	28:Z4:995:ARG:H	2.17	0.57
3:A6:1394:VAL:CG2	28:Z4:913:ILE:C	2.75	0.57
6:D4:598:ILE:HD13	6:D4:608:ILE:CD1	2.34	0.57
6:D7:201:LEU:O	6:D7:203:PRO:HD3	2.04	0.57
9:G1:256:GLN:H	17:O2:257:ALA:HB3	1.66	0.57
11:I1:833:PHE:O	17:O1:237:PRO:O	2.22	0.57
11:I1:846:ILE:HB	15:M1:594:LYS:HB3	1.85	0.57
11:I1:925:LEU:HA	15:M1:596:ILE:HB	1.85	0.57
11:I1:1041:GLN:N	15:M1:620:VAL:HG22	2.19	0.57
11:I1:1048:GLU:CG	17:O1:288:GLU:H	2.16	0.57
11:I1:1107:SER:OG	16:N1:437:VAL:HA	2.04	0.57
11:I1:1114:VAL:HG21	16:N1:432:TYR:O	2.01	0.57
11:I2:836:VAL:CG1	17:O3:244:GLU:HB2	2.19	0.57
11:I2:895:ARG:NH1	16:N3:386:MET:CE	2.67	0.57
11:I2:976:ARG:CB	20:R3:149:ARG:HB2	2.26	0.57
11:I2:980:ILE:CB	15:M3:618:GLN:CG	2.81	0.57
11:I2:1039:ALA:HB3	20:R3:170:LEU:CA	2.27	0.57
11:I2:1433:THR:HG21	12:J2:270:ARG:CD	2.33	0.57
11:I3:1277:LEU:H	26:X1:522:MET:HB2	1.64	0.57
11:I5:1363:GLU:OE1	11:I5:1366:ARG:NH2	2.36	0.57
12:J3:249:ASP:OD1	12:J3:250:THR:N	2.37	0.57
23:U1:20:LYS:O	23:U1:24:ILE:HG12	1.97	0.57
23:U1:35:PRO:CB	31:c2:556:GLN:CG	2.82	0.57
23:U1:141:THR:HG23	31:c1:498:GLN:C	1.97	0.57
23:U2:393:ALA:HB1	31:c4:543:ALA:HB2	1.85	0.57
23:U2:395:CYS:HB3	31:c4:555:VAL:H	1.69	0.57
23:U2:413:ILE:CB	31:c4:541:ARG:N	2.67	0.57
26:X2:192:LEU:CB	34:i:443:THR:CG2	2.72	0.57
26:X2:294:GLN:O	34:i:449:VAL:CG1	2.52	0.57
26:X2:308:ASN:HB3	34:i:405:TYR:HB2	1.85	0.57
27:Y2:123:LEU:HB2	27:Y2:139:ALA:HB3	1.86	0.57
28:Z2:555:LYS:CB	30:b2:213:ASP:H	2.17	0.57
28:Z3:555:LYS:CB	30:b3:213:ASP:H	2.17	0.57
28:Z4:401:THR:HG22	30:b4:253:SER:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:555:LYS:HB3	30:b4:212:PHE:C	2.29	0.57
30:b2:333:HIS:HD2	30:b2:336:HIS:H	1.52	0.57
30:b4:44:CYS:HB2	30:b4:61:LEU:HD11	1.85	0.57
2:A2:781:ARG:CA	6:D1:673:ARG:O	2.53	0.57
2:A2:863:GLN:N	6:D1:606:LYS:H	2.02	0.57
2:A2:872:ALA:HB1	6:D1:565:MET:HE3	1.78	0.57
2:A2:989:MSE:HE3	6:D1:240:ASP:N	2.13	0.57
2:A2:1138:GLU:HB2	3:A5:147:LEU:HD13	0.58	0.57
2:A2:1139:ILE:CG2	3:A5:135:PHE:N	2.59	0.57
1:A3:1188:ASN:H	3:A6:642:ARG:HA	1.69	0.57
1:A3:1257:VAL:CG2	3:A6:719:ARG:HH12	2.13	0.57
2:A4:543:GLY:HA2	3:A6:365:MET:N	2.19	0.57
2:A4:802:TYR:CB	3:A6:397:LEU:HB3	2.32	0.57
2:A4:821:ALA:O	3:A6:138:LEU:HD11	2.03	0.57
2:A4:948:ALA:H	3:A6:235:TYR:HE1	1.41	0.57
2:A4:970:PHE:CB	6:D3:498:GLU:HB3	2.33	0.57
3:A6:1360:GLY:N	28:Z4:918:PHE:CB	2.67	0.57
6:D6:570:VAL:HG11	6:D6:598:ILE:HD12	1.86	0.57
6:D6:598:ILE:HD13	6:D6:608:ILE:CD1	2.34	0.57
8:F1:1093:LEU:HB2	17:O2:244:GLU:OE2	2.04	0.57
11:I1:913:ALA:N	15:M1:584:GLN:HE21	1.95	0.57
11:I1:948:ALA:CB	17:O1:256:TYR:HB3	2.34	0.57
11:I1:957:SER:O	20:R1:168:LEU:HD11	2.04	0.57
11:I1:976:ARG:CA	20:R1:149:ARG:HD3	2.29	0.57
11:I1:1052:LEU:CD2	16:N1:434:LEU:HD12	2.34	0.57
11:I2:879:VAL:HG12	17:O3:247:TRP:CB	2.27	0.57
11:I2:1028:CYS:CA	20:R3:173:LEU:N	2.65	0.57
11:I2:1048:GLU:HB2	17:O3:284:LYS:HA	1.84	0.57
17:O2:111:TYR:CD1	18:P2:325:ILE:HG12	2.39	0.57
21:S1:184:ILE:HD11	21:S1:201:VAL:CG2	2.34	0.57
21:S3:947:GLU:H	21:S3:947:GLU:CD	2.12	0.57
21:S4:184:ILE:HD11	21:S4:201:VAL:CG2	2.34	0.57
23:U1:71:GLU:OE1	23:U1:75:TRP:NE1	2.36	0.57
23:U1:438:GLU:CG	31:c2:541:ARG:CZ	2.76	0.57
23:U2:23:LYS:O	31:c4:488:LEU:HG	2.03	0.57
23:U2:23:LYS:HD3	31:c4:484:LEU:CB	2.33	0.57
23:U2:394:ILE:O	31:c4:535:VAL:CA	2.51	0.57
23:U2:434:THR:HG23	31:c4:460:LEU:HD12	1.86	0.57
23:U4:280:SER:HB2	23:U4:284:SER:HB3	1.86	0.57
23:U4:343:ILE:HD13	23:U4:344:ARG:N	2.19	0.57
23:U4:433:ALA:HB1	23:U4:439:SER:OG	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:159:ILE:HG22	26:X2:172:PHE:CE1	2.39	0.57
26:X2:197:VAL:N	34:i:438:LEU:O	2.37	0.57
26:X2:294:GLN:HG3	34:i:415:SER:O	2.01	0.57
26:X2:302:THR:HG21	34:i:371:LEU:HD21	1.86	0.57
26:X2:333:GLU:HG3	34:i:475:ILE:C	2.29	0.57
28:Z1:329:TRP:HB3	28:Z1:355:TRP:HB3	1.85	0.57
28:Z3:521:SER:HG	30:b3:238:ASN:N	2.02	0.57
28:Z3:554:PHE:CE2	30:b3:234:LEU:HD23	2.40	0.57
28:Z4:185:GLY:O	28:Z4:196:PRO:HA	2.04	0.57
30:b4:304:LEU:HD22	30:b4:305:PRO:HD2	1.85	0.57
31:c2:589:LEU:HD13	31:c2:594:ASP:HB3	1.85	0.57
1:A1:834:GLU:CA	6:D3:302:PRO:CB	2.82	0.57
1:A1:870:HIS:CG	6:D3:279:HIS:CE1	2.73	0.57
2:A2:970:PHE:CD1	6:D1:196:ILE:HD11	2.35	0.57
1:A3:1123:GLU:CB	3:A6:599:ARG:HD2	2.24	0.57
1:A3:1188:ASN:CA	3:A6:642:ARG:HA	2.34	0.57
1:A3:1201:ARG:CG	3:A6:549:ALA:H	2.12	0.57
1:A3:1228:TYR:HA	3:A6:576:VAL:HG11	1.86	0.57
1:A3:1235:ILE:HD11	3:A6:617:VAL:HG13	1.86	0.57
1:A3:1257:VAL:HG12	3:A6:620:GLY:HA2	1.69	0.57
1:A3:1390:LEU:CD1	3:A6:228:GLY:CA	2.79	0.57
2:A4:97:ASP:HB3	3:A6:364:HIS:CE1	2.38	0.57
2:A4:680:LEU:HB2	3:A6:510:TYR:CE1	2.37	0.57
2:A4:886:PHE:HE1	3:A6:176:LEU:N	1.90	0.57
3:A5:1092:ASN:OD1	11:I5:33:THR:HG22	2.03	0.57
3:A6:1364:GLN:CG	28:Z4:876:LEU:O	2.51	0.57
11:I1:928:LEU:HD21	20:R1:155:GLU:CB	2.30	0.57
11:I1:1037:THR:CG2	20:R1:169:GLY:C	2.73	0.57
11:I1:1038:ILE:HG13	20:R1:167:GLN:OE1	2.03	0.57
11:I2:874:LEU:CA	17:O3:255:GLY:N	2.51	0.57
11:I2:938:CYS:O	17:O3:264:ILE:O	2.22	0.57
11:I2:953:LEU:HD22	15:M3:603:SER:OG	1.80	0.57
11:I3:1271:GLU:N	26:X1:529:TRP:CB	2.64	0.57
11:I4:1112:SER:HB3	12:J4:241:THR:HB	1.87	0.57
11:I5:1277:LEU:CD2	26:X2:517:ASP:CB	2.82	0.57
12:J4:249:ASP:OD1	12:J4:250:THR:N	2.37	0.57
22:T1:736:LEU:HD13	31:c5:19:THR:HG21	1.85	0.57
22:T1:833:ARG:NH2	31:c5:20:PRO:HD3	2.17	0.57
23:U1:343:ILE:HD13	23:U1:344:ARG:N	2.19	0.57
24:V3:180:LEU:HD21	24:V3:185:LEU:HD13	1.85	0.57
26:X1:145:ASN:OD1	26:X1:190:PHE:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:145:ASN:OD1	26:X2:190:PHE:HA	2.04	0.57
26:X3:159:ILE:HG22	26:X3:172:PHE:CE1	2.39	0.57
28:Z1:125:ASP:OD1	28:Z1:127:SER:OG	2.17	0.57
28:Z1:185:GLY:O	28:Z1:196:PRO:HA	2.04	0.57
28:Z1:554:PHE:CE2	30:b1:234:LEU:HD23	2.39	0.57
28:Z2:561:GLN:HG3	30:b2:236:THR:N	2.17	0.57
1:A1:870:HIS:CB	6:D3:280:GLN:HA	2.33	0.57
1:A1:1197:ALA:C	2:A2:728:LYS:HZ2	2.12	0.57
1:A1:1224:PRO:HA	2:A2:727:ASN:HB2	1.86	0.57
2:A2:781:ARG:HH22	6:D1:679:ILE:HD12	1.68	0.57
2:A2:970:PHE:HB3	6:D1:498:GLU:OE1	2.04	0.57
2:A2:1132:PRO:HG2	3:A5:138:LEU:HD23	1.86	0.57
2:A2:1144:ASP:CA	3:A5:129:ASN:CG	2.77	0.57
1:A3:1017:THR:C	6:D3:819:ASN:CB	2.78	0.57
1:A3:1201:ARG:O	2:A4:732:GLN:CA	2.51	0.57
1:A3:1248:ILE:N	3:A6:587:VAL:CG1	2.60	0.57
1:A3:1271:ILE:HG22	3:A6:550:VAL:HG12	1.86	0.57
1:A3:1274:ASP:CB	3:A6:556:PRO:CB	2.80	0.57
1:A3:1396:GLY:HA2	2:A4:888:GLN:CG	2.34	0.57
2:A4:643:ALA:O	3:A6:501:VAL:O	2.21	0.57
2:A4:720:LEU:CG	3:A6:494:PRO:CB	2.65	0.57
2:A4:731:ILE:HG22	3:A6:95:TYR:HB2	1.85	0.57
2:A4:898:LEU:CB	3:A6:177:ILE:HA	2.30	0.57
2:A4:970:PHE:CZ	6:D3:555:ARG:NH2	2.65	0.57
3:A5:1029:ILE:N	11:I5:68:ILE:CA	2.43	0.57
6:D1:201:LEU:O	6:D1:203:PRO:HD3	2.05	0.57
6:D2:201:LEU:O	6:D2:203:PRO:HD3	2.05	0.57
6:D3:743:HIS:NE2	11:I2:1528:ARG:HG3	2.20	0.57
9:G1:270:ARG:CG	16:N2:413:VAL:O	2.51	0.57
11:I1:1032:THR:O	15:M1:627:LEU:CG	2.52	0.57
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD13	2.15	0.57
11:I1:1048:GLU:CD	20:R1:143:PHE:CB	2.57	0.57
11:I2:945:LEU:HD11	17:O3:254:ARG:O	2.02	0.57
11:I2:1021:ILE:C	16:N3:406:HIS:CE1	2.82	0.57
21:S2:1083:TRP:HA	21:S2:1083:TRP:CE3	2.38	0.57
23:U2:34:ASP:HA	31:c4:561:THR:CB	2.35	0.57
23:U2:41:GLU:CD	31:c4:563:ARG:NH1	2.25	0.57
23:U2:433:ALA:HB1	23:U2:439:SER:OG	2.05	0.57
23:U3:343:ILE:HD13	23:U3:344:ARG:N	2.19	0.57
26:X2:290:GLU:CB	34:i:492:TRP:NE1	2.58	0.57
26:X2:307:LYS:HE2	34:i:402:PRO:CA	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:522:ASN:ND2	30:b4:241:PRO:N	2.52	0.57
31:c1:589:LEU:HD13	31:c1:594:ASP:HB3	1.85	0.57
1:A1:868:GLN:HA	6:D3:275:PHE:HB3	1.86	0.57
2:A2:865:ALA:O	6:D1:598:ILE:CD1	2.52	0.57
1:A3:1182:ILE:HB	3:A6:639:ASN:HD22	1.69	0.57
1:A3:1244:LEU:CA	3:A6:633:MET:CE	2.61	0.57
1:A3:1261:TYR:CD2	3:A6:616:ALA:HB1	2.36	0.57
2:A4:611:ILE:HB	3:A6:508:LEU:HD12	1.86	0.57
2:A4:648:TYR:O	3:A6:505:ALA:HB2	2.04	0.57
2:A4:679:TYR:OH	3:A6:109:ASP:HB2	2.04	0.57
2:A4:721:ARG:CA	3:A6:572:ARG:NH2	2.65	0.57
2:A4:801:THR:C	3:A6:319:TYR:HH	2.12	0.57
2:A4:859:GLN:CD	3:A6:176:LEU:CD2	2.76	0.57
2:A4:983:LEU:CG	6:D3:497:PHE:CZ	2.88	0.57
3:A5:146:LYS:CB	5:C2:745:SER:O	2.41	0.57
3:A5:157:TRP:HB2	5:C2:741:THR:O	2.02	0.57
3:A5:1026:PRO:CG	11:I5:73:TYR:CB	2.73	0.57
3:A5:1395:LYS:H	28:Z2:870:ILE:C	2.08	0.57
3:A6:1135:ARG:NE	5:C6:743:LEU:HD12	2.18	0.57
3:A6:1388:ALA:HB3	28:Z4:904:PHE:O	2.04	0.57
6:D1:570:VAL:HG11	6:D1:598:ILE:HD12	1.85	0.57
8:F1:171:PHE:O	8:F1:180:ARG:NH2	2.36	0.57
8:F1:1205:TRP:CD1	17:O2:254:ARG:HB3	2.39	0.57
11:I1:799:THR:O	11:I1:831:HIS:NE2	2.37	0.57
11:I1:1607:GLN:HG3	11:I2:1739:GLU:HG3	1.77	0.57
11:I2:797:LEU:HD13	17:O3:245:GLU:C	2.25	0.57
11:I2:874:LEU:N	17:O3:255:GLY:HA2	2.17	0.57
11:I2:874:LEU:HG	17:O3:255:GLY:C	2.26	0.57
11:I2:923:GLY:HA3	15:M3:591:ASP:CA	2.34	0.57
11:I2:924:ILE:HG13	15:M3:597:LYS:H	1.59	0.57
11:I2:965:ALA:CB	20:R3:154:ALA:HA	2.34	0.57
11:I2:980:ILE:HG21	15:M3:622:VAL:H	1.70	0.57
11:I2:1020:ALA:C	16:N3:406:HIS:ND1	2.60	0.57
11:I3:816:ASP:CA	26:X1:498:SER:CB	2.74	0.57
11:I5:465:GLU:OE1	11:I5:465:GLU:N	2.38	0.57
17:O4:109:PRO:N	18:P4:318:PRO:HB3	2.20	0.57
21:S1:678:GLU:CB	21:S2:1128:ALA:HA	2.35	0.57
26:X2:192:LEU:HD11	34:i:442:SER:OG	1.98	0.57
26:X4:159:ILE:HG21	26:X4:176:GLU:HG2	1.87	0.57
26:X4:163:LYS:HD2	26:X4:172:PHE:CZ	2.38	0.57
28:Z1:91:LYS:NZ	28:Z1:142:ALA:O	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:524:VAL:N	30:b1:237:LEU:C	2.62	0.57
28:Z2:561:GLN:HB3	30:b2:236:THR:O	2.05	0.57
28:Z4:555:LYS:CB	30:b4:213:ASP:H	2.17	0.57
31:c3:699:LEU:HD12	31:c3:699:LEU:C	2.30	0.57
2:A2:977:VAL:HG21	6:D1:491:HIS:C	2.29	0.57
1:A3:1189:LEU:CD2	3:A6:579:PHE:CE1	2.84	0.57
1:A3:1220:PRO:HG3	2:A4:732:GLN:HE22	1.68	0.57
1:A3:1254:LEU:HA	3:A6:638:GLU:OE2	2.05	0.57
2:A4:75:LEU:CD2	3:A6:324:ARG:HG3	2.34	0.57
2:A4:673:HIS:CE1	3:A6:541:PRO:CB	2.83	0.57
2:A4:711:VAL:N	3:A6:480:VAL:CG2	2.68	0.57
2:A4:721:ARG:CB	3:A6:572:ARG:NH2	2.67	0.57
2:A4:727:ASN:O	3:A6:500:LYS:CD	2.48	0.57
2:A4:754:HIS:CA	3:A6:543:GLY:CA	2.80	0.57
2:A4:760:LEU:CG	3:A6:388:GLU:CG	2.75	0.57
2:A4:852:ASP:H	3:A6:170:THR:HG23	1.69	0.57
2:A4:878:LEU:HD23	6:D3:607:PRO:CB	1.94	0.57
11:I1:841:PHE:O	15:M1:587:GLU:C	2.47	0.57
11:I1:1669:ARG:HH22	11:I2:1610:VAL:HG11	1.68	0.57
11:I2:980:ILE:N	20:R3:147:LEU:HD11	1.94	0.57
21:S3:429:SER:HB2	21:S3:436:SER:CB	2.34	0.57
23:U2:19:LEU:O	31:c4:484:LEU:HG	2.04	0.57
26:X2:362:LEU:N	34:i:419:THR:O	2.26	0.57
26:X4:159:ILE:HG22	26:X4:172:PHE:CE1	2.39	0.57
27:Y4:42:THR:HG22	29:a4:248:ARG:CD	2.35	0.57
28:Z1:522:ASN:ND2	30:b1:241:PRO:N	2.51	0.57
28:Z1:549:LYS:CB	30:b1:182:PRO:HD3	2.34	0.57
28:Z2:527:SER:CA	30:b2:204:GLU:CG	2.59	0.57
28:Z2:537:THR:CG2	28:Z2:743:ASN:HA	2.31	0.57
28:Z3:91:LYS:NZ	28:Z3:142:ALA:O	2.30	0.57
28:Z3:329:TRP:HB3	28:Z3:355:TRP:HB3	1.85	0.57
28:Z4:530:LYS:HZ3	30:b4:164:CYS:HA	1.68	0.57
31:c1:599:MET:HE1	31:c1:653:THR:HG23	1.86	0.57
31:c2:699:LEU:HD12	31:c2:699:LEU:C	2.30	0.57
2:A2:225:THR:HG22	6:D1:709:ARG:N	2.20	0.57
2:A2:825:ARG:NH1	6:D1:633:LYS:CD	2.61	0.57
2:A2:983:LEU:CD2	6:D1:497:PHE:CZ	2.88	0.57
1:A3:1098:ARG:CD	11:I2:1414:CYS:CB	2.64	0.57
1:A3:1281:LEU:HD13	3:A6:577:ASP:C	2.29	0.57
2:A4:753:GLU:HG3	3:A6:543:GLY:CA	2.34	0.57
2:A4:753:GLU:HA	3:A6:542:LEU:HB2	1.83	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:761:GLN:CD	3:A6:547:GLU:N	2.63	0.57
2:A4:772:SER:C	3:A6:489:LEU:CD2	2.66	0.57
2:A4:777:LEU:HD11	3:A6:526:ILE:HA	1.85	0.57
2:A4:875:LEU:O	6:D3:567:LEU:HD12	2.03	0.57
2:A4:949:PHE:CB	4:B6:348:PRO:HD2	2.23	0.57
3:A5:1029:ILE:CG2	11:I5:70:GLU:C	2.71	0.57
3:A5:1395:LYS:N	28:Z2:874:ASN:H	2.02	0.57
3:A5:1415:PHE:H	28:Z2:960:CYS:CA	2.16	0.57
6:D5:715:GLU:HB2	31:c4:505:SER:OG	1.99	0.57
7:E2:91:VAL:O	7:E2:91:VAL:HG22	2.04	0.57
7:E5:91:VAL:HG22	7:E5:91:VAL:O	2.04	0.57
8:F1:158:PRO:HG2	11:I1:1207:PRO:CD	2.21	0.57
8:F1:1091:SER:HB3	17:O2:242:ARG:N	2.20	0.57
8:F2:190:ARG:NH1	8:F2:281:THR:OG1	2.37	0.57
9:G2:256:GLN:HB3	17:O4:262:ASP:N	2.19	0.57
11:I1:952:LEU:HD12	16:N1:400:LEU:CD1	2.35	0.57
11:I2:799:THR:O	11:I2:831:HIS:NE2	2.37	0.57
11:I2:896:PRO:HB3	17:O3:233:THR:OG1	2.04	0.57
11:I2:948:ALA:CA	17:O3:253:LEU:O	2.50	0.57
11:I2:1030:ARG:N	20:R3:171:ALA:O	2.35	0.57
11:I2:1069:SER:CB	16:N3:427:VAL:N	2.65	0.57
11:I2:1112:SER:HB3	12:J2:241:THR:HB	1.87	0.57
11:I3:799:THR:O	11:I3:831:HIS:NE2	2.37	0.57
23:U1:25:GLU:HG3	31:c2:604:HIS:NE2	2.20	0.57
23:U2:400:ASN:HD21	31:c4:550:LYS:HZ1	1.50	0.57
23:U3:433:ALA:HB1	23:U3:439:SER:OG	2.04	0.57
24:V2:359:TYR:HA	24:V2:362:LEU:HD12	1.87	0.57
26:X2:191:ILE:C	34:i:443:THR:HG21	2.27	0.57
26:X2:198:GLU:HG2	34:i:367:GLU:N	2.18	0.57
26:X2:299:SER:CB	34:i:333:LEU:H	2.18	0.57
26:X4:145:ASN:OD1	26:X4:190:PHE:HA	2.04	0.57
27:Y3:29:SER:C	27:Y3:31:GLN:H	2.12	0.57
28:Z1:342:LEU:HD13	28:Z1:379:ILE:HD12	1.86	0.57
28:Z1:521:SER:HG	30:b1:238:ASN:N	2.00	0.57
28:Z1:555:LYS:CB	30:b1:213:ASP:H	2.17	0.57
28:Z2:329:TRP:HB3	28:Z2:355:TRP:HB3	1.85	0.57
28:Z2:342:LEU:HD13	28:Z2:379:ILE:HD12	1.86	0.57
28:Z2:524:VAL:N	30:b2:237:LEU:C	2.62	0.57
28:Z3:560:ASN:ND2	30:b3:211:ILE:HG21	2.15	0.57
28:Z4:410:ASN:HB3	30:b4:251:ILE:CD1	2.18	0.57
28:Z4:558:LEU:CA	30:b4:236:THR:N	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b1:44:CYS:HB2	30:b1:61:LEU:HD11	1.85	0.57
2:A2:908:LEU:HA	6:D1:601:PHE:CB	2.31	0.57
2:A2:911:TYR:OH	6:D1:196:ILE:HG22	2.03	0.57
1:A3:1251:VAL:HA	3:A6:634:ASP:OD2	2.04	0.57
1:A3:1389:SER:OG	3:A6:230:LYS:N	2.38	0.57
2:A4:235:TYR:HE1	4:B4:347:LEU:CB	2.12	0.57
2:A4:610:THR:HG22	3:A6:507:ALA:HB2	1.86	0.57
2:A4:672:ARG:CG	3:A6:96:PRO:HG3	0.45	0.57
2:A4:713:ILE:H	3:A6:462:LEU:HD21	1.70	0.57
2:A4:763:LEU:HD21	3:A6:384:ILE:HG12	1.85	0.57
2:A4:859:GLN:HB3	3:A6:134:VAL:CA	2.35	0.57
2:A4:908:LEU:CA	6:D3:552:TYR:OH	2.53	0.57
2:A4:978:ASP:N	6:D3:492:VAL:CG1	2.68	0.57
3:A5:999:SER:HG	11:I5:63:PRO:CD	2.01	0.57
3:A5:1046:LEU:HD11	11:I5:70:GLU:CB	2.30	0.57
3:A5:1310:ARG:O	28:Z2:830:LEU:C	2.46	0.57
3:A6:487:ASP:N	6:D3:674:TYR:O	2.37	0.57
6:D6:201:LEU:O	6:D6:203:PRO:HD3	2.05	0.57
8:F1:1137:GLN:CB	17:O2:245:GLU:C	2.60	0.57
9:G1:263:MET:HE1	16:N2:408:MET:CA	2.35	0.57
11:I1:899:LEU:O	17:O1:232:LYS:HE3	2.04	0.57
11:I1:917:TYR:CE2	15:M1:591:ASP:N	2.71	0.57
11:I1:930:LEU:CD2	15:M1:595:MET:O	2.53	0.57
11:I1:1054:ILE:O	17:O1:282:LYS:N	2.24	0.57
11:I1:1546:TRP:O	12:J2:300:ILE:HG21	2.05	0.57
11:I2:834:SER:HA	17:O3:241:SER:N	2.20	0.57
11:I2:899:LEU:CD2	17:O3:235:ASN:CB	2.80	0.57
21:S3:1124:ASP:O	21:S3:1127:GLN:N	2.32	0.57
21:S4:384:ASP:N	21:S4:384:ASP:OD1	2.38	0.57
22:T1:751:ARG:NH1	31:c5:59:ASP:OD1	2.38	0.57
23:U1:431:ILE:HG21	31:c2:470:ARG:CB	2.35	0.57
23:U2:398:ILE:HD12	31:c4:555:VAL:CG1	2.35	0.57
23:U3:280:SER:HB2	23:U3:284:SER:HB3	1.86	0.57
24:V1:199:THR:HB	24:V1:213:GLU:HB2	1.87	0.57
24:V2:180:LEU:HD21	24:V2:185:LEU:HD13	1.85	0.57
24:V3:199:THR:HB	24:V3:213:GLU:HB2	1.87	0.57
24:V4:199:THR:HB	24:V4:213:GLU:HB2	1.87	0.57
25:W2:217:LEU:HD22	25:W2:218:LEU:H	1.69	0.57
27:Y2:42:THR:HG22	29:a2:248:ARG:CD	2.35	0.57
27:Y3:42:THR:HG22	29:a3:248:ARG:CD	2.35	0.57
28:Z1:524:VAL:C	30:b1:236:THR:HG21	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:101:SER:HA	28:Z4:123:LEU:HA	1.87	0.57
28:Z4:555:LYS:CD	30:b4:233:TRP:CE3	2.87	0.57
30:b3:304:LEU:HD22	30:b3:305:PRO:HD2	1.85	0.57
2:A2:877:ALA:N	6:D1:563:GLU:HA	2.20	0.57
1:A3:1154:PHE:HB2	3:A6:591:ASP:OD1	2.04	0.57
1:A3:1231:VAL:HG22	3:A6:613:ALA:C	2.29	0.57
1:A3:1254:LEU:HD11	3:A6:638:GLU:CG	2.20	0.57
1:A3:1265:ASN:HA	3:A6:683:LEU:HD13	1.84	0.57
2:A4:235:TYR:OH	4:B4:347:LEU:HD12	2.05	0.57
2:A4:689:LYS:HG2	3:A6:396:ALA:HB3	1.76	0.57
2:A4:691:LYS:CA	3:A6:316:ARG:NH2	2.67	0.57
2:A4:713:ILE:CG1	3:A6:462:LEU:HD11	1.91	0.57
2:A4:760:LEU:CD2	3:A6:98:LEU:CA	2.77	0.57
2:A4:818:LEU:CD2	3:A6:146:LYS:NZ	2.67	0.57
2:A4:864:ARG:NH1	6:D3:610:ASN:CB	2.53	0.57
2:A4:879:LEU:HG	6:D3:567:LEU:CG	2.35	0.57
3:A5:222:ALA:CB	5:C2:739:MET:CE	2.83	0.57
3:A5:1001:GLU:CG	11:I5:65:LYS:HB2	2.35	0.57
3:A6:487:ASP:N	6:D3:675:ARG:HA	1.68	0.57
3:A6:520:GLU:CB	6:D3:635:ALA:CB	2.45	0.57
6:D5:570:VAL:HG11	6:D5:598:ILE:HD12	1.85	0.57
8:F1:190:ARG:NH1	8:F1:281:THR:OG1	2.36	0.57
8:F1:1659:MET:O	8:F1:1712:ASN:ND2	2.36	0.57
11:I1:873:ILE:HG23	17:O1:254:ARG:CB	2.31	0.57
11:I1:1020:ALA:HA	16:N1:405:ALA:CA	2.24	0.57
11:I1:1034:ASP:CG	20:R1:177:LEU:HD23	2.26	0.57
11:I2:874:LEU:HG	17:O3:256:TYR:CA	2.34	0.57
11:I2:1029:LEU:CD2	20:R3:170:LEU:HD23	2.32	0.57
11:I3:1278:ALA:CB	26:X1:520:GLU:H	2.10	0.57
21:S1:652:VAL:C	21:S2:1156:ILE:C	2.73	0.57
23:U2:434:THR:N	31:c4:460:LEU:C	2.38	0.57
25:W2:117:LEU:HB2	25:W2:153:TRP:NE1	2.20	0.57
26:X1:271:LEU:O	26:X1:275:SER:HB3	2.04	0.57
26:X3:159:ILE:HG21	26:X3:176:GLU:HG2	1.87	0.57
27:Y4:29:SER:C	27:Y4:31:GLN:H	2.13	0.57
28:Z1:407:GLY:O	30:b1:251:ILE:HG12	2.01	0.57
28:Z1:438:GLU:CG	30:b1:333:HIS:HE1	2.16	0.57
28:Z1:555:LYS:CD	30:b1:233:TRP:CE3	2.87	0.57
28:Z3:101:SER:HA	28:Z3:123:LEU:HA	1.87	0.57
28:Z3:554:PHE:CE2	30:b3:234:LEU:CA	2.84	0.57
28:Z3:555:LYS:CD	30:b3:233:TRP:CE3	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:561:GLN:HB3	30:b4:236:THR:O	2.05	0.57
31:c3:188:CYS:SG	31:c3:207:VAL:HG22	2.45	0.57
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB3	2.05	0.57
1:A3:1197:ALA:N	3:A6:678:LEU:HD23	2.19	0.57
1:A3:1267:GLN:CB	3:A6:551:GLN:O	2.20	0.57
2:A4:688:TRP:CH2	3:A6:382:SER:CB	2.84	0.57
2:A4:706:PRO:HB2	3:A6:461:ALA:CA	2.26	0.57
2:A4:724:LEU:CD2	3:A6:496:THR:HG23	2.35	0.57
2:A4:779:ASP:OD2	6:D3:680:SER:HB2	2.02	0.57
2:A4:1150:LEU:CD1	5:C4:731:LYS:CG	2.82	0.57
3:A6:518:GLU:O	6:D3:686:ASP:HB2	2.05	0.57
6:D3:201:LEU:O	6:D3:203:PRO:HD3	2.05	0.57
6:D7:598:ILE:HD13	6:D7:608:ILE:CD1	2.34	0.57
11:I1:94:GLU:N	11:I1:94:GLU:OE1	2.38	0.57
11:I1:833:PHE:CZ	17:O1:241:SER:CB	2.45	0.57
11:I1:959:SER:HB2	20:R1:166:LEU:HD21	1.87	0.57
11:I1:1030:ARG:HB2	20:R1:175:GLN:OE1	2.05	0.57
11:I2:955:LYS:CG	16:N3:403:VAL:HG23	2.34	0.57
11:I2:980:ILE:C	20:R3:147:LEU:HD13	1.95	0.57
11:I5:94:GLU:N	11:I5:94:GLU:OE1	2.37	0.57
21:S2:1070:LYS:HZ3	21:S2:1121:GLU:HB3	1.70	0.57
21:S3:1020:LEU:H	21:S3:1020:LEU:HD22	1.70	0.57
21:S4:443:VAL:HG13	21:S4:445:ASN:CG	2.30	0.57
21:S4:1020:LEU:H	21:S4:1020:LEU:HD22	1.70	0.57
22:T1:669:ARG:HA	22:T1:672:ILE:HG22	1.87	0.57
23:U1:22:PHE:CD2	31:c2:559:ILE:HG21	2.40	0.57
23:U1:139:VAL:HB	31:c1:635:SER:CB	2.27	0.57
23:U1:433:ALA:HB1	23:U1:439:SER:OG	2.05	0.57
23:U2:10:GLU:HG3	31:c4:469:SER:HB3	1.86	0.57
23:U2:403:SER:HB3	31:c4:551:LEU:HD23	1.61	0.57
23:U2:413:ILE:HG13	31:c4:538:LEU:O	2.05	0.57
24:V1:359:TYR:HA	24:V1:362:LEU:HD12	1.86	0.57
25:W3:117:LEU:HB2	25:W3:153:TRP:NE1	2.20	0.57
26:X2:370:LEU:HD23	34:i:425:HIS:CD2	2.11	0.57
28:Z3:524:VAL:N	30:b3:237:LEU:C	2.62	0.57
2:A2:969:ASP:O	6:D1:192:TYR:CG	2.57	0.56
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG22	1.86	0.56
1:A3:1186:TRP:HZ3	3:A6:617:VAL:HG11	1.70	0.56
1:A3:1189:LEU:H	3:A6:642:ARG:N	2.03	0.56
1:A3:1332:ARG:HG2	6:D3:636:ASP:HB3	1.80	0.56
2:A4:691:LYS:C	3:A6:316:ARG:NH2	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:763:LEU:HD12	3:A6:470:ARG:C	2.30	0.56
2:A4:771:ILE:O	3:A6:479:VAL:HG23	2.04	0.56
2:A4:854:VAL:HG13	3:A6:174:PRO:HD3	1.86	0.56
2:A4:874:VAL:CB	6:D3:568:ARG:O	2.52	0.56
2:A4:890:ALA:CB	3:A6:175:GLU:CD	2.78	0.56
2:A4:892:SER:O	3:A6:232:LEU:CB	2.50	0.56
2:A4:899:THR:OG1	4:B6:343:LYS:HG2	2.05	0.56
2:A4:901:ALA:HB2	3:A6:176:LEU:CB	2.32	0.56
2:A4:934:TRP:CZ2	4:B6:350:GLU:CG	2.78	0.56
3:A5:175:GLU:HB3	5:C2:733:LEU:CD1	2.35	0.56
3:A5:1029:ILE:C	11:I5:69:GLY:O	2.48	0.56
6:D6:804:SER:OG	22:T3:764:PHE:CD2	2.57	0.56
7:E4:91:VAL:HG22	7:E4:91:VAL:O	2.04	0.56
8:F2:540:GLU:OE1	8:F2:540:GLU:N	2.38	0.56
9:G1:263:MET:SD	17:O2:260:LEU:CD2	2.93	0.56
9:G1:270:ARG:CB	16:N2:414:ALA:C	2.74	0.56
9:G2:256:GLN:HB3	17:O4:261:LYS:CA	2.35	0.56
11:I1:885:GLU:OE2	17:O1:249:ARG:NE	2.39	0.56
11:I1:950:LEU:HB3	16:N1:406:HIS:C	2.28	0.56
11:I1:956:ILE:HG12	15:M1:599:ILE:HD13	1.87	0.56
11:I1:956:ILE:HG21	15:M1:600:ASN:OD1	2.05	0.56
11:I2:950:LEU:HB2	16:N3:407:ALA:CB	2.35	0.56
11:I2:1061:ASP:CB	17:O3:278:GLU:CB	2.68	0.56
11:I2:1109:LEU:HD23	16:N3:438:LEU:HD23	1.85	0.56
21:S1:991:LYS:O	21:S1:995:MET:HB2	2.04	0.56
21:S3:443:VAL:HG13	21:S3:445:ASN:CG	2.30	0.56
21:S3:991:LYS:O	21:S3:995:MET:HB2	2.04	0.56
22:T4:779:GLN:N	22:T4:780:PRO:HD3	2.20	0.56
23:U2:78:VAL:CG1	31:c4:553:LEU:CG	2.83	0.56
23:U2:280:SER:HB2	23:U2:284:SER:HB3	1.86	0.56
25:W3:217:LEU:HD22	25:W3:218:LEU:H	1.69	0.56
25:W4:117:LEU:HB2	25:W4:153:TRP:NE1	2.20	0.56
27:Y1:42:THR:HG22	29:a1:248:ARG:CD	2.35	0.56
27:Y4:42:THR:O	27:Y4:44:ASN:N	2.31	0.56
28:Z1:555:LYS:CB	30:b1:233:TRP:CE3	2.88	0.56
28:Z2:185:GLY:O	28:Z2:196:PRO:HA	2.04	0.56
28:Z2:554:PHE:CE2	30:b2:234:LEU:HD23	2.39	0.56
28:Z3:125:ASP:OD1	28:Z3:127:SER:OG	2.17	0.56
28:Z3:185:GLY:O	28:Z3:196:PRO:HA	2.04	0.56
28:Z3:555:LYS:CB	30:b3:233:TRP:CE3	2.88	0.56
28:Z4:342:LEU:HD13	28:Z4:379:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:554:PHE:CE2	30:b4:234:LEU:HD23	2.40	0.56
30:b3:333:HIS:HD2	30:b3:336:HIS:H	1.52	0.56
31:c5:599:MET:HE1	31:c5:653:THR:HG23	1.86	0.56
2:A2:226:PRO:CG	6:D1:707:ILE:O	2.53	0.56
2:A2:940:PRO:CA	3:A5:585:ASN:HB3	2.35	0.56
2:A2:1126:VAL:N	3:A5:135:PHE:CB	2.68	0.56
2:A2:1131:ILE:N	3:A5:141:GLY:CA	2.62	0.56
1:A3:1018:ASP:HB3	6:D3:817:LEU:O	2.06	0.56
1:A3:1130:ARG:HA	3:A6:653:ARG:HD2	1.87	0.56
1:A3:1164:TYR:CG	3:A6:642:ARG:O	2.51	0.56
1:A3:1165:ASP:HB2	3:A6:594:LEU:CD1	2.33	0.56
2:A4:690:ALA:HB2	3:A6:398:THR:CA	2.21	0.56
2:A4:691:LYS:CD	3:A6:330:LEU:HG	2.35	0.56
2:A4:770:GLY:HA2	3:A6:528:ILE:HB	1.86	0.56
3:A5:1026:PRO:HG2	11:I5:73:TYR:CG	2.29	0.56
3:A5:1380:ALA:N	28:Z2:816:THR:H	2.02	0.56
7:E6:91:VAL:HG22	7:E6:91:VAL:O	2.04	0.56
8:F2:1336:GLU:N	8:F2:1336:GLU:OE1	2.36	0.56
11:I1:880:MET:CB	17:O1:247:TRP:O	2.53	0.56
11:I1:889:THR:H	17:O1:242:ARG:NH1	2.03	0.56
11:I1:1051:LYS:HA	17:O1:290:TYR:CD2	2.40	0.56
11:I1:1070:LEU:CB	16:N1:429:GLU:HB3	2.34	0.56
11:I2:354:ASP:OD1	11:I2:355:GLU:N	2.38	0.56
11:I2:841:PHE:HA	15:M3:591:ASP:OD2	2.05	0.56
11:I2:886:LEU:CD1	17:O3:245:GLU:HB3	2.23	0.56
11:I2:895:ARG:CB	17:O3:234:LEU:C	2.46	0.56
11:I3:354:ASP:OD1	11:I3:355:GLU:N	2.38	0.56
11:I3:465:GLU:N	11:I3:465:GLU:OE1	2.38	0.56
11:I4:799:THR:O	11:I4:831:HIS:NE2	2.37	0.56
12:J5:249:ASP:OD1	12:J5:250:THR:N	2.37	0.56
21:S1:947:GLU:H	21:S1:947:GLU:CD	2.12	0.56
21:S1:1052:LEU:HD21	21:S1:1073:ILE:CD1	2.32	0.56
22:T2:837:LYS:N	31:c4:333:LEU:HD23	2.19	0.56
25:W1:117:LEU:HB2	25:W1:153:TRP:NE1	2.20	0.56
26:X2:308:ASN:CA	34:i:397:ARG:CA	2.69	0.56
26:X2:336:LEU:HD11	34:i:478:PRO:HD2	1.71	0.56
27:Y4:238:GLY:HA2	27:Y4:305:GLY:O	2.05	0.56
28:Z1:530:LYS:HZ3	30:b1:164:CYS:HA	1.68	0.56
28:Z1:535:ILE:HD11	30:b1:182:PRO:HG3	1.85	0.56
28:Z2:288:VAL:HG12	28:Z2:300:MET:HB3	1.87	0.56
28:Z2:555:LYS:CB	30:b2:233:TRP:CE3	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:659:TYR:OH	28:Z2:744:VAL:HA	2.05	0.56
28:Z3:524:VAL:C	30:b3:236:THR:HG21	2.29	0.56
28:Z3:659:TYR:OH	28:Z3:744:VAL:HA	2.05	0.56
28:Z4:410:ASN:HD22	30:b4:252:ALA:CA	2.14	0.56
28:Z4:524:VAL:N	30:b4:237:LEU:C	2.62	0.56
31:c4:599:MET:HE1	31:c4:653:THR:HG23	1.86	0.56
31:c5:188:CYS:SG	31:c5:207:VAL:HG22	2.45	0.56
1:A1:1220:PRO:O	2:A2:646:ILE:HA	2.05	0.56
1:A1:1332:ARG:HH21	6:D1:685:VAL:CB	2.09	0.56
2:A2:980:ARG:CA	6:D1:473:GLU:CG	2.77	0.56
2:A2:981:PRO:HB3	6:D1:502:LEU:N	2.20	0.56
2:A2:989:MSE:HE3	6:D1:239:THR:C	2.30	0.56
2:A2:1132:PRO:HD3	3:A5:160:ILE:CB	2.35	0.56
2:A2:1139:ILE:HG22	3:A5:135:PHE:CE2	2.38	0.56
1:A3:1048:ARG:NE	6:D3:819:ASN:HD21	1.48	0.56
1:A3:1056:PHE:CD2	6:D3:808:ASN:N	2.66	0.56
1:A3:1186:TRP:CG	3:A6:640:LEU:N	2.71	0.56
1:A3:1194:HIS:HE1	3:A6:552:PHE:CD2	2.24	0.56
1:A3:1220:PRO:HB3	2:A4:732:GLN:OE1	2.05	0.56
1:A3:1321:MET:HE1	3:A6:571:ARG:HH21	1.54	0.56
1:A3:1332:ARG:O	6:D3:637:LYS:HG2	2.03	0.56
2:A4:238:ARG:HH12	4:B4:349:MET:HE1	1.71	0.56
2:A4:648:TYR:O	3:A6:505:ALA:CB	2.53	0.56
2:A4:694:GLN:OE1	3:A6:377:ASN:ND2	2.38	0.56
2:A4:711:VAL:HA	3:A6:490:PHE:HB2	0.57	0.56
2:A4:722:ASN:HB3	3:A6:513:GLN:CB	2.34	0.56
2:A4:724:LEU:CB	3:A6:496:THR:HG23	2.23	0.56
2:A4:778:PHE:HA	6:D3:676:ALA:C	2.30	0.56
2:A4:828:ALA:HB1	3:A6:139:ASN:H	1.71	0.56
2:A4:852:ASP:CB	3:A6:154:GLY:C	2.58	0.56
2:A4:856:PHE:CB	3:A6:167:TRP:HE1	2.18	0.56
2:A4:864:ARG:HG2	6:D3:609:ILE:H	1.71	0.56
2:A4:901:ALA:CB	3:A6:133:LYS:HE2	2.35	0.56
2:A4:921:VAL:CG2	3:A6:175:GLU:CD	2.75	0.56
2:A4:978:ASP:HB2	6:D3:476:VAL:HG22	1.85	0.56
2:A4:987:LYS:NZ	6:D3:555:ARG:HG2	2.19	0.56
3:A5:1396:GLY:HA3	28:Z2:908:LEU:HA	1.87	0.56
3:A5:1408:GLU:N	28:Z2:917:ASP:HA	2.19	0.56
6:D4:201:LEU:O	6:D4:203:PRO:HD3	2.05	0.56
8:F2:581:PHE:O	8:F2:585:THR:OG1	2.21	0.56
8:F2:856:GLU:N	8:F2:856:GLU:OE1	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1137:GLN:HB2	17:O4:251:ILE:HD13	0.63	0.56
9:G1:263:MET:SD	16:N2:407:ALA:C	2.88	0.56
9:G2:258:LYS:C	17:O4:259:ASP:OD1	2.48	0.56
11:I1:354:ASP:OD1	11:I1:355:GLU:N	2.38	0.56
11:I1:917:TYR:O	15:M1:588:MET:CG	2.53	0.56
11:I1:945:LEU:HD23	17:O1:259:ASP:H	0.74	0.56
11:I1:952:LEU:C	16:N1:403:VAL:CB	2.74	0.56
11:I1:1032:THR:O	15:M1:627:LEU:CD2	2.54	0.56
11:I1:1037:THR:CG2	20:R1:170:LEU:N	2.68	0.56
11:I1:1064:LYS:HB2	16:N1:427:VAL:HG11	1.84	0.56
11:I1:1109:LEU:CD2	17:O1:290:TYR:CE2	2.87	0.56
11:I1:1674:HIS:HD2	11:I2:1635:HIS:HD2	1.51	0.56
11:I2:94:GLU:N	11:I2:94:GLU:OE1	2.38	0.56
11:I2:924:ILE:HB	15:M3:598:GLU:N	2.19	0.56
11:I2:932:VAL:HG13	15:M3:612:PRO:CB	2.33	0.56
11:I2:966:TRP:N	20:R3:154:ALA:CB	2.68	0.56
11:I2:1029:LEU:HD13	20:R3:174:ARG:HD2	1.87	0.56
11:I2:1041:GLN:O	17:O3:275:LEU:HD13	2.06	0.56
11:I2:1049:LEU:CD2	17:O3:291:ASP:CG	2.78	0.56
11:I3:94:GLU:N	11:I3:94:GLU:OE1	2.38	0.56
11:I3:777:SER:C	29:a2:40[A]:GLU:CG	2.78	0.56
11:I4:1276:GLN:HA	26:X3:520:GLU:CB	2.23	0.56
11:I5:354:ASP:OD1	11:I5:355:GLU:N	2.38	0.56
11:I5:799:THR:O	11:I5:831:HIS:NE2	2.37	0.56
17:O3:155:VAL:HG23	18:P3:321:ILE:HD13	0.62	0.56
21:S1:666:THR:O	21:S2:1149:GLU:CB	2.54	0.56
21:S1:1032:ILE:HD12	21:S1:1051:ALA:CA	2.36	0.56
21:S2:1020:LEU:H	21:S2:1020:LEU:HD22	1.70	0.56
21:S2:1124:ASP:O	21:S2:1127:GLN:N	2.32	0.56
21:S3:184:ILE:HD11	21:S3:201:VAL:CG2	2.34	0.56
21:S3:384:ASP:N	21:S3:384:ASP:OD1	2.38	0.56
21:S3:680:PRO:CB	21:S4:1097:LYS:HZ1	2.18	0.56
21:S3:940:GLU:OE1	21:S3:949:ALA:HA	2.05	0.56
22:T1:779:GLN:N	22:T1:780:PRO:HD3	2.19	0.56
22:T2:669:ARG:HA	22:T2:672:ILE:HG22	1.87	0.56
22:T4:669:ARG:HA	22:T4:672:ILE:HG22	1.87	0.56
23:U1:139:VAL:HB	31:c1:635:SER:HG	1.59	0.56
23:U1:280:SER:HB2	23:U1:284:SER:HB3	1.86	0.56
23:U2:430:PRO:HB2	31:c4:458:LYS:CA	1.88	0.56
23:U2:430:PRO:HA	31:c4:462:HIS:CA	2.29	0.56
23:U3:210:MET:O	24:V3:325:TYR:OH	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:156:THR:HG22	24:V3:514:ARG:HD2	1.88	0.56
24:V4:359:TYR:HA	24:V4:362:LEU:HD12	1.86	0.56
26:X2:201:ARG:H	34:i:367:GLU:HA	1.68	0.56
26:X2:271:LEU:O	26:X2:275:SER:HB3	2.04	0.56
26:X2:307:LYS:N	34:i:405:TYR:HD1	2.03	0.56
26:X2:313:LEU:O	34:i:400:LYS:CE	2.54	0.56
28:Z1:401:THR:HG22	30:b1:253:SER:H	1.69	0.56
28:Z2:401:THR:HG22	30:b2:253:SER:H	1.69	0.56
28:Z2:555:LYS:CD	30:b2:233:TRP:CE3	2.87	0.56
28:Z4:558:LEU:N	30:b4:235:LEU:O	2.36	0.56
31:c1:188:CYS:SG	31:c1:207:VAL:HG22	2.45	0.56
31:c4:188:CYS:SG	31:c4:207:VAL:HG22	2.45	0.56
31:c5:699:LEU:HD12	31:c5:699:LEU:C	2.30	0.56
32:g:312:GLU:CG	32:g:413:LEU:HD21	2.36	0.56
33:h:203:LEU:CD1	33:h:209:ILE:HD11	2.35	0.56
1:A1:1400:SER:HA	2:A2:881:GLU:OE2	2.06	0.56
2:A2:867:GLU:OE1	6:D1:593:ARG:NH2	2.39	0.56
1:A3:1199:GLN:O	3:A6:91:LEU:CD2	2.47	0.56
1:A3:1201:ARG:HG3	3:A6:549:ALA:CA	2.31	0.56
1:A3:1235:ILE:CG1	3:A6:617:VAL:HG21	2.35	0.56
2:A4:90:GLN:CB	3:A6:407:SER:OG	2.53	0.56
2:A4:682:ARG:CG	3:A6:432:VAL:C	2.76	0.56
2:A4:755:GLN:H	3:A6:540:GLN:H	1.52	0.56
2:A4:761:GLN:CD	3:A6:547:GLU:HG3	2.18	0.56
2:A4:951:GLU:HA	4:B6:346:LEU:CA	2.29	0.56
3:A5:999:SER:C	11:I5:62:GLU:CB	2.78	0.56
3:A5:1024:ASP:CG	11:I5:96:GLU:O	2.49	0.56
3:A6:484:PRO:CB	6:D3:676:ALA:HB2	2.21	0.56
6:D5:201:LEU:O	6:D5:203:PRO:HD3	2.05	0.56
9:G1:260:THR:C	17:O2:256:TYR:HE1	2.12	0.56
11:I1:921:GLU:OE2	16:N1:392:THR:C	2.47	0.56
11:I1:1739:GLU:C	11:I2:1604:ALA:C	2.74	0.56
11:I2:890:TYR:HB2	17:O3:242:ARG:HG3	1.86	0.56
11:I2:942:HIS:CG	17:O3:259:ASP:O	2.54	0.56
11:I2:1110:SER:CB	16:N3:435:ALA:C	2.79	0.56
11:I4:354:ASP:OD1	11:I4:355:GLU:N	2.38	0.56
11:I4:747:GLU:N	11:I4:747:GLU:OE1	2.38	0.56
11:I4:819:MET:CG	26:X3:501:LYS:CD	2.81	0.56
17:O3:151:LEU:HD21	18:P3:325:ILE:CG1	0.93	0.56
18:P2:320:GLN:CD	18:P3:278:ASN:HB3	2.28	0.56
21:S2:384:ASP:OD1	21:S2:384:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1032:ILE:HD12	21:S3:1051:ALA:CA	2.36	0.56
23:U1:210:MET:O	24:V1:325:TYR:OH	2.21	0.56
23:U1:401:PRO:CA	31:c2:549:ALA:O	2.54	0.56
23:U2:78:VAL:HG13	31:c4:553:LEU:HD13	1.79	0.56
26:X1:159:ILE:HG21	26:X1:176:GLU:HG2	1.87	0.56
26:X2:308:ASN:HB2	34:i:405:TYR:CB	2.35	0.56
26:X2:309:LEU:HA	34:i:397:ARG:O	2.06	0.56
26:X3:163:LYS:HD2	26:X3:172:PHE:CZ	2.39	0.56
26:X4:271:LEU:O	26:X4:275:SER:HB3	2.04	0.56
27:Y2:238:GLY:HA2	27:Y2:305:GLY:O	2.05	0.56
28:Z1:101:SER:HA	28:Z1:123:LEU:HA	1.87	0.56
28:Z2:410:ASN:HD22	30:b2:252:ALA:CA	2.14	0.56
28:Z3:342:LEU:HD13	28:Z3:379:ILE:HD12	1.86	0.56
28:Z3:522:ASN:ND2	30:b3:241:PRO:N	2.51	0.56
28:Z4:522:ASN:OD1	30:b4:241:PRO:CB	2.47	0.56
28:Z4:527:SER:C	30:b4:184:SER:HG	2.13	0.56
1:A1:1332:ARG:HB2	6:D1:636:ASP:OD2	2.05	0.56
1:A1:1401:VAL:N	2:A2:884:ARG:NH1	2.51	0.56
2:A2:780:GLU:CG	6:D1:677:GLN:O	2.52	0.56
2:A2:877:ALA:HA	6:D1:563:GLU:HA	1.87	0.56
2:A2:992:TYR:CB	6:D1:238:ALA:CB	2.83	0.56
2:A2:1153:LEU:N	3:A5:173:ASN:O	2.31	0.56
2:A4:238:ARG:HH12	4:B4:349:MET:CE	2.19	0.56
2:A4:689:LYS:NZ	3:A6:336:ILE:CG2	2.58	0.56
2:A4:779:ASP:OD1	6:D3:674:TYR:O	2.00	0.56
2:A4:781:ARG:HH21	6:D3:633:LYS:HZ3	1.53	0.56
2:A4:908:LEU:HD22	6:D3:566:PHE:CE2	2.41	0.56
2:A4:949:PHE:C	4:B6:348:PRO:CD	2.72	0.56
2:A4:977:VAL:HG13	6:D3:476:VAL:HG21	1.86	0.56
3:A5:147:LEU:N	5:C2:747:PRO:HG3	2.17	0.56
3:A5:991:ALA:O	11:I5:57:GLU:HG3	2.05	0.56
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG3	2.35	0.56
4:B5:344:ALA:HB1	5:C2:737:LYS:HB3	1.86	0.56
11:I1:840:LEU:CD2	17:O1:244:GLU:HG2	2.36	0.56
11:I1:873:ILE:CG2	17:O1:254:ARG:HD2	2.21	0.56
11:I1:919:ALA:HB1	16:N1:392:THR:OG1	1.97	0.56
11:I1:925:LEU:HD11	20:R1:163:LEU:HA	1.87	0.56
11:I1:935:GLY:O	15:M1:606:LEU:C	2.33	0.56
11:I1:940:LEU:CA	17:O1:259:ASP:O	2.54	0.56
11:I1:976:ARG:NH2	15:M1:622:VAL:CB	2.66	0.56
11:I1:999:SER:HB2	17:O1:264:ILE:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1023:ASP:CB	16:N1:405:ALA:HB3	2.34	0.56
11:I1:1112:SER:HB3	12:J1:241:THR:HB	1.87	0.56
11:I2:1068:HIS:O	16:N3:429:GLU:CD	2.48	0.56
11:I5:1112:SER:HB3	12:J5:241:THR:HB	1.87	0.56
17:O3:102:LYS:N	18:P3:322:LYS:HD3	1.88	0.56
18:P1:278:ASN:CB	18:P4:322:LYS:HA	2.24	0.56
21:S1:443:VAL:HG13	21:S1:445:ASN:CG	2.30	0.56
21:S1:940:GLU:OE1	21:S1:949:ALA:HA	2.05	0.56
23:U1:393:ALA:O	31:c2:552:ARG:CZ	2.54	0.56
23:U2:38:ILE:HG21	31:c4:555:VAL:CG1	2.32	0.56
23:U3:71:GLU:OE1	23:U3:75:TRP:NE1	2.36	0.56
23:U3:276:VAL:CA	25:W4:192:GLN:NE2	2.15	0.56
23:U4:163:ARG:HD3	24:V4:292:ILE:HD11	1.88	0.56
24:V3:359:TYR:HA	24:V3:362:LEU:HD12	1.86	0.56
24:V4:433:GLU:OE1	24:V4:467:SER:OG	2.20	0.56
25:W2:200:LEU:HD11	25:W2:243:TRP:CD1	2.41	0.56
26:X2:196:ASP:C	34:i:442:SER:HG	2.12	0.56
26:X2:309:LEU:O	34:i:471:ILE:HD13	2.06	0.56
28:Z2:101:SER:HA	28:Z2:123:LEU:HA	1.87	0.56
28:Z3:288:VAL:HG12	28:Z3:300:MET:HB3	1.88	0.56
28:Z4:659:TYR:OH	28:Z4:744:VAL:HA	2.05	0.56
2:A2:985:ALA:O	6:D1:500:LYS:CD	2.53	0.56
2:A2:1132:PRO:CD	3:A5:160:ILE:CB	2.83	0.56
1:A3:1017:THR:HG22	6:D3:819:ASN:HB3	0.59	0.56
1:A3:1201:ARG:HG2	2:A4:728:LYS:HA	1.70	0.56
1:A3:1397:LEU:HA	3:A6:172:PRO:HG3	1.86	0.56
2:A4:80:LYS:HG2	3:A6:386:ALA:HB3	1.85	0.56
2:A4:92:ASP:O	3:A6:365:MET:CG	2.50	0.56
2:A4:172:PRO:CB	6:D3:781:ARG:CD	2.83	0.56
2:A4:553:ASP:CA	3:A6:435:PRO:HD2	2.35	0.56
2:A4:706:PRO:HG2	3:A6:460:ARG:O	2.05	0.56
2:A4:726:ALA:HA	3:A6:575:LEU:HD22	1.88	0.56
2:A4:753:GLU:CB	3:A6:93:ASP:O	2.52	0.56
2:A4:767:ILE:HB	3:A6:476:PHE:N	1.96	0.56
2:A4:790:ASP:CA	3:A6:187:THR:HG22	2.26	0.56
2:A4:947:LYS:H	4:B6:351:GLU:CB	2.17	0.56
2:A4:947:LYS:HE2	3:A6:203:ILE:HG12	1.87	0.56
3:A5:175:GLU:HB3	5:C2:733:LEU:HD13	1.88	0.56
3:A5:1363:ASP:HB2	28:Z2:875:LEU:N	2.20	0.56
3:A6:1416:ARG:O	28:Z4:1000:TYR:O	2.14	0.56
6:D2:612:VAL:HG12	6:D2:628:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:258:LYS:CE	16:N2:408:MET:HE3	2.35	0.56
11:I1:890:TYR:CE1	17:O1:240:GLY:CA	2.88	0.56
11:I1:896:PRO:HA	17:O1:233:THR:N	2.20	0.56
11:I1:986:ASN:O	15:M1:611:LYS:CA	2.52	0.56
11:I2:888:GLU:HG3	16:N3:393:ILE:C	2.09	0.56
11:I2:897:GLU:CB	17:O3:236:ASP:OD2	2.43	0.56
11:I2:983:LEU:HD21	15:M3:604:ASN:HD22	1.71	0.56
11:I2:995:SER:O	17:O3:267:ALA:HB3	2.05	0.56
11:I2:1040:HIS:HB3	15:M3:619:ILE:CG2	2.08	0.56
11:I3:77:GLU:OE1	11:I3:77:GLU:N	2.38	0.56
21:S1:374:THR:OG1	21:S1:387:THR:OG1	2.24	0.56
21:S3:681:SER:O	21:S4:1144:LEU:O	2.24	0.56
22:T1:752:ALA:O	31:c5:58:ARG:CD	2.54	0.56
23:U1:222:VAL:CG1	24:V1:256:VAL:HA	2.36	0.56
23:U2:47:GLY:H	31:c4:473:THR:HG21	1.71	0.56
23:U2:79:GLU:HB2	31:c4:556:GLN:NE2	2.19	0.56
23:U2:237:ILE:HD11	23:U2:240:HIS:HA	1.87	0.56
24:V1:156:THR:HG22	24:V1:514:ARG:HD2	1.88	0.56
24:V2:199:THR:HB	24:V2:213:GLU:HB2	1.87	0.56
24:V4:156:THR:HG22	24:V4:514:ARG:HD2	1.88	0.56
26:X2:60:LYS:C	26:X2:62:GLY:H	2.14	0.56
26:X2:317:PHE:N	34:i:400:LYS:CE	2.69	0.56
27:Y1:29:SER:C	27:Y1:31:GLN:H	2.13	0.56
27:Y3:238:GLY:HA2	27:Y3:305:GLY:O	2.05	0.56
28:Z1:659:TYR:OH	28:Z1:744:VAL:HA	2.05	0.56
28:Z3:527:SER:C	30:b3:184:SER:HG	2.14	0.56
31:c1:699:LEU:HD12	31:c1:699:LEU:C	2.30	0.56
31:c4:161:ARG:NH2	31:c4:164:ASP:OD2	2.39	0.56
2:A2:1150:LEU:CD2	3:A5:173:ASN:HD22	2.05	0.56
2:A2:1277:TRP:CG	2:A2:1278:PRO:HD3	2.41	0.56
1:A3:1164:TYR:N	3:A6:648:TYR:HD2	2.01	0.56
1:A3:1224:PRO:HG2	2:A4:734:LEU:HD22	1.87	0.56
1:A3:1274:ASP:HB2	3:A6:556:PRO:CA	2.16	0.56
2:A4:95:TYR:HB3	3:A6:364:HIS:C	2.30	0.56
2:A4:607:ARG:HA	3:A6:506:SER:CA	2.35	0.56
2:A4:707:THR:CG2	3:A6:401:GLY:HA3	2.36	0.56
2:A4:728:LYS:HG2	3:A6:548:LEU:HD23	1.85	0.56
2:A4:897:ASN:CB	3:A6:177:ILE:N	2.66	0.56
2:A4:900:THR:CB	3:A6:137:HIS:NE2	2.69	0.56
2:A4:984:ALA:N	6:D3:497:PHE:C	2.43	0.56
3:A6:520:GLU:HG2	6:D3:639:LEU:CB	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1359:LEU:HB3	28:Z4:918:PHE:H	1.70	0.56
3:A6:1399:ARG:HH22	28:Z4:968:ARG:N	1.88	0.56
6:D5:240:ASP:C	31:c3:470:ARG:CZ	2.70	0.56
11:I1:921:GLU:HA	15:M1:596:ILE:CG1	2.34	0.56
11:I1:1036:PRO:CA	16:N1:441:PHE:HE2	2.19	0.56
11:I1:1114:VAL:HG11	16:N1:436:ALA:HB2	1.88	0.56
11:I2:828:VAL:O	17:O3:237:PRO:HB3	2.03	0.56
11:I2:834:SER:HB3	17:O3:237:PRO:O	2.03	0.56
11:I2:882:LYS:CG	17:O3:249:ARG:CA	2.74	0.56
11:I2:996:LEU:CD1	15:M3:607:SER:O	2.52	0.56
11:I2:1052:LEU:HD23	16:N3:438:LEU:HD11	1.77	0.56
11:I3:777:SER:HB2	29:a2:40[B]:GLU:HB2	1.75	0.56
17:O2:110:LEU:HG	18:P2:321:ILE:C	2.30	0.56
21:S2:1052:LEU:HD21	21:S2:1073:ILE:CD1	2.32	0.56
23:U1:434:THR:CG2	31:c2:479:ILE:CB	2.40	0.56
23:U2:163:ARG:HD3	24:V2:292:ILE:HD11	1.88	0.56
23:U3:163:ARG:HD3	24:V3:292:ILE:HD11	1.88	0.56
23:U4:222:VAL:CG1	24:V4:256:VAL:HA	2.36	0.56
24:V4:180:LEU:HD11	24:V4:478:PHE:HE1	1.71	0.56
26:X2:265:ILE:C	26:X2:267:ARG:H	2.12	0.56
26:X2:315:GLN:N	34:i:400:LYS:N	2.53	0.56
26:X3:145:ASN:OD1	26:X3:190:PHE:HA	2.04	0.56
28:Z4:555:LYS:HE3	30:b4:216:LEU:HD22	1.31	0.56
31:c4:699:LEU:HD12	31:c4:699:LEU:C	2.30	0.56
1:A1:870:HIS:HB2	6:D3:280:GLN:HA	1.81	0.56
2:A2:238:ARG:HH12	4:B2:349:MET:CE	2.19	0.56
2:A2:1126:VAL:CA	3:A5:135:PHE:O	2.44	0.56
1:A3:1236:GLN:CB	3:A6:581:LYS:CB	2.54	0.56
1:A3:1277:TRP:HB2	3:A6:556:PRO:CG	2.21	0.56
2:A4:652:PRO:CA	3:A6:542:LEU:HD11	2.28	0.56
2:A4:718:GLU:HB2	3:A6:491:VAL:O	2.06	0.56
2:A4:737:PRO:HD3	3:A6:93:ASP:OD1	2.05	0.56
2:A4:769:GLU:CA	3:A6:528:ILE:CG2	2.80	0.56
2:A4:775:LEU:CD1	3:A6:478:ASP:O	2.54	0.56
2:A4:826:ASN:OD1	3:A6:564:ASN:O	2.24	0.56
2:A4:859:GLN:HG3	3:A6:131:PRO:CG	2.36	0.56
2:A4:865:ALA:N	6:D3:604:ASP:O	2.38	0.56
2:A4:893:LEU:CD1	3:A6:175:GLU:CD	2.50	0.56
2:A4:975:GLU:CG	6:D3:501:LEU:CB	2.58	0.56
3:A6:1377:ARG:N	28:Z4:830:LEU:CB	2.69	0.56
7:E1:91:VAL:O	7:E1:91:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1264:ARG:HG2	17:O2:263:GLN:C	2.26	0.56
11:I1:959:SER:HA	16:N1:395:GLU:CG	2.36	0.56
11:I1:1044:GLY:O	17:O1:280:GLU:OE2	2.23	0.56
11:I2:891:LEU:CG	16:N3:393:ILE:CD1	2.82	0.56
17:O3:148:ARG:NH1	18:P3:325:ILE:C	2.64	0.56
17:O4:109:PRO:CD	18:P4:318:PRO:CB	2.82	0.56
17:O4:110:LEU:HB3	18:P4:321:ILE:CG2	2.36	0.56
18:P1:278:ASN:HB3	18:P4:322:LYS:CA	2.34	0.56
21:S1:1020:LEU:H	21:S1:1020:LEU:HD22	1.70	0.56
22:T3:669:ARG:HA	22:T3:672:ILE:HG22	1.87	0.56
23:U1:139:VAL:CG2	31:c1:635:SER:HG	2.11	0.56
23:U1:176:GLU:CD	31:c1:501:GLU:O	2.48	0.56
23:U2:18:THR:C	31:c4:479:ILE:HD12	2.31	0.56
23:U2:24:ILE:HG13	31:c4:482:LEU:C	2.30	0.56
23:U2:41:GLU:CB	31:c4:563:ARG:CZ	2.79	0.56
23:U2:115:GLN:NE2	31:c4:92:THR:CA	1.91	0.56
23:U3:237:ILE:HD11	23:U3:240:HIS:HA	1.87	0.56
23:U3:277:LEU:N	25:W4:192:GLN:HE21	1.65	0.56
23:U3:278:GLN:HB3	25:W4:187:TYR:HH	1.71	0.56
23:U4:34:ASP:HB3	23:U4:35:PRO:HD3	1.88	0.56
26:X1:265:ILE:C	26:X1:267:ARG:H	2.12	0.56
28:Z1:527:SER:C	30:b1:184:SER:HG	2.13	0.56
28:Z2:411:LEU:HG	30:b2:251:ILE:CD1	2.36	0.56
28:Z4:411:LEU:HG	30:b4:251:ILE:CD1	2.36	0.56
28:Z4:555:LYS:CB	30:b4:233:TRP:CE3	2.88	0.56
29:a3:214[B]:THR:HG23	29:a3:252[B]:MET:HE2	1.88	0.56
30:b3:166:LEU:HD22	30:b3:202:VAL:HG21	1.87	0.56
31:c5:161:ARG:NH2	31:c5:164:ASP:OD2	2.39	0.56
32:g:93:PHE:HD2	32:g:111:MET:CE	2.19	0.56
33:h:244:ALA:HB3	33:h:274:SER:HB2	1.88	0.56
1:A1:831:ALA:C	6:D3:298:ASN:HD22	2.13	0.56
1:A3:1161:ALA:HB3	3:A6:647:GLU:O	2.06	0.56
1:A3:1162:ASN:OD1	3:A6:732:GLN:CD	2.49	0.56
1:A3:1200:ARG:CG	3:A6:609:GLU:HG3	2.22	0.56
1:A3:1265:ASN:CA	3:A6:683:LEU:CD1	2.63	0.56
1:A3:1271:ILE:HG21	3:A6:553:ASP:HB2	1.64	0.56
2:A4:84:VAL:N	3:A6:324:ARG:NH1	2.53	0.56
2:A4:732:GLN:HA	3:A6:92:ASP:CA	2.30	0.56
2:A4:771:ILE:HG21	3:A6:490:PHE:O	2.06	0.56
2:A4:880:ALA:CB	6:D3:558:LYS:CD	2.83	0.56
3:A5:1387:ILE:CD1	28:Z2:830:LEU:CB	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1399:ARG:HD3	28:Z2:909:LEU:HA	1.86	0.56
3:A6:1368:GLN:HB2	28:Z4:875:LEU:CA	2.33	0.56
11:I1:850:ILE:HG12	15:M1:594:LYS:HG3	1.88	0.56
11:I1:878:GLN:NE2	17:O1:252:VAL:CG1	2.69	0.56
11:I1:890:TYR:CZ	17:O1:240:GLY:CA	2.88	0.56
11:I1:916:ALA:HB2	15:M1:586:ASP:CB	2.34	0.56
11:I1:1017:VAL:HG22	17:O1:260:LEU:HD22	1.87	0.56
11:I1:1048:GLU:C	15:M1:622:VAL:CG1	2.79	0.56
11:I1:1059:PRO:N	17:O1:276:GLY:O	2.03	0.56
11:I1:1103:LEU:CD1	20:R1:175:GLN:CD	2.65	0.56
11:I1:1104:LEU:HD22	16:N1:433:GLU:O	2.05	0.56
11:I2:747:GLU:N	11:I2:747:GLU:OE1	2.38	0.56
11:I2:900:ARG:CB	17:O3:232:LYS:CG	2.67	0.56
11:I2:916:ALA:C	15:M3:589:GLY:HA3	2.04	0.56
11:I2:925:LEU:HA	15:M3:597:LYS:CG	2.34	0.56
11:I2:980:ILE:HB	15:M3:618:GLN:HG2	1.85	0.56
11:I2:1031:ALA:HB3	20:R3:168:LEU:CD2	2.25	0.56
11:I2:1045:PHE:HB3	17:O3:283:ALA:CB	2.35	0.56
11:I2:1068:HIS:C	16:N3:429:GLU:CD	2.70	0.56
11:I3:777:SER:HA	29:a2:40[A]:GLU:HG3	1.86	0.56
17:O4:111:TYR:C	18:P1:278:ASN:HD22	2.14	0.56
21:S1:668:ILE:C	21:S2:1146:ALA:CA	2.78	0.56
21:S4:1032:ILE:HD12	21:S4:1051:ALA:CA	2.36	0.56
23:U1:26:GLN:CB	31:c2:562:LEU:HB3	1.90	0.56
23:U2:10:GLU:CG	31:c4:469:SER:HB3	2.36	0.56
23:U2:20:LYS:CB	31:c4:480:CYS:CB	2.84	0.56
23:U3:222:VAL:CG1	24:V3:256:VAL:HA	2.36	0.56
26:X2:159:ILE:HG21	26:X2:176:GLU:HG2	1.87	0.56
26:X2:192:LEU:CD1	34:i:442:SER:H	2.16	0.56
26:X2:192:LEU:HB3	34:i:439:GLN:C	2.29	0.56
27:Y2:29:SER:C	27:Y2:31:GLN:H	2.13	0.56
29:a1:214[B]:THR:HG23	29:a1:252[B]:MET:HE2	1.88	0.56
30:b1:333:HIS:HD2	30:b1:336:HIS:H	1.52	0.56
30:b2:166:LEU:HD22	30:b2:202:VAL:HG21	1.87	0.56
2:A2:865:ALA:CA	6:D1:604:ASP:O	2.52	0.56
2:A2:874:VAL:CG1	6:D1:608:ILE:HA	2.36	0.56
2:A2:988:ARG:N	6:D1:500:LYS:NZ	2.53	0.56
2:A2:1160:GLN:HG2	3:A5:176:LEU:C	2.31	0.56
1:A3:1021:LEU:HD12	6:D3:819:ASN:HB2	1.88	0.56
1:A3:1189:LEU:CD1	3:A6:583:LEU:CD2	2.84	0.56
1:A3:1189:LEU:CB	3:A6:641:ALA:CB	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1254:LEU:CA	3:A6:638:GLU:CD	2.72	0.56
2:A4:544:PHE:HA	3:A6:362:PHE:O	1.84	0.56
2:A4:691:LYS:CA	3:A6:316:ARG:CZ	2.84	0.56
2:A4:720:LEU:CA	3:A6:495:ASP:CA	2.73	0.56
2:A4:989:MSE:CE	6:D3:242:LEU:N	2.41	0.56
3:A5:1033:GLN:HE22	11:I5:71:GLU:CG	2.17	0.56
3:A5:1310:ARG:NE	28:Z2:827:GLN:O	2.39	0.56
11:I1:1034:ASP:CG	20:R1:177:LEU:CD2	2.71	0.56
11:I1:1635:HIS:HD2	11:I2:1674:HIS:HD2	1.53	0.56
11:I2:877:ILE:CA	17:O3:254:ARG:CB	2.64	0.56
11:I2:981:VAL:CG1	20:R3:147:LEU:HG	2.36	0.56
11:I2:1109:LEU:CB	16:N3:441:PHE:HB2	2.36	0.56
11:I2:1114:VAL:CG2	16:N3:435:ALA:N	2.35	0.56
11:I3:747:GLU:N	11:I3:747:GLU:OE1	2.38	0.56
11:I3:1112:SER:HB3	12:J3:241:THR:HB	1.87	0.56
12:J2:249:ASP:OD1	12:J2:250:THR:N	2.37	0.56
21:S1:384:ASP:N	21:S1:384:ASP:OD1	2.38	0.56
21:S2:443:VAL:HG13	21:S2:445:ASN:CG	2.31	0.56
23:U1:155:SER:HA	24:V1:351:ILE:HA	1.88	0.56
23:U2:222:VAL:CG1	24:V2:256:VAL:HA	2.36	0.56
23:U2:430:PRO:CB	31:c4:458:LYS:C	2.49	0.56
23:U2:437:ASN:HB3	31:c4:195:ILE:HD12	1.87	0.56
23:U3:34:ASP:HB3	23:U3:35:PRO:HD3	1.88	0.56
23:U3:155:SER:HA	24:V3:351:ILE:HA	1.88	0.56
26:X1:60:LYS:C	26:X1:62:GLY:H	2.14	0.56
28:Z1:232:ARG:NE	28:Z1:249:THR:OG1	2.39	0.56
28:Z1:411:LEU:HG	30:b1:251:ILE:CD1	2.36	0.56
28:Z1:537:THR:CG2	28:Z1:743:ASN:HA	2.31	0.56
28:Z1:561:GLN:HG3	30:b1:236:THR:N	2.17	0.56
29:a4:214[B]:THR:HG23	29:a4:252[B]:MET:HE2	1.88	0.56
30:b2:21:TRP:CZ3	30:b2:366:HIS:HD2	2.24	0.56
31:c3:599:MET:HE1	31:c3:653:THR:HG23	1.86	0.56
2:A2:238:ARG:HH12	4:B2:349:MET:HE1	1.71	0.55
2:A2:874:VAL:CG2	6:D1:611:LYS:CG	2.71	0.55
2:A2:909:LYS:HZ1	6:D1:197:VAL:CG2	2.18	0.55
2:A2:909:LYS:NZ	6:D1:601:PHE:HD1	2.04	0.55
1:A3:1189:LEU:HG	3:A6:583:LEU:HD21	1.88	0.55
1:A3:1251:VAL:N	3:A6:633:MET:CA	2.62	0.55
1:A3:1261:TYR:CB	3:A6:621:GLN:CG	1.88	0.55
1:A3:1310:ARG:HH11	3:A6:708:SER:HB3	1.70	0.55
2:A4:86:ASN:C	3:A6:393:HIS:H	2.12	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:547:GLU:CG	3:A6:366:ALA:O	2.54	0.55
2:A4:691:LYS:HD3	3:A6:330:LEU:HG	1.87	0.55
2:A4:710:LEU:C	3:A6:462:LEU:HD21	2.20	0.55
2:A4:853:VAL:HA	3:A6:128:HIS:HB3	1.87	0.55
3:A5:232:LEU:CD2	5:C2:739:MET:C	2.78	0.55
3:A5:1098:ARG:CZ	11:I5:29:GLN:HB3	2.34	0.55
3:A5:1356:SER:O	28:Z2:876:LEU:O	2.24	0.55
3:A6:518:GLU:O	6:D3:686:ASP:HB3	2.05	0.55
6:D6:612:VAL:HG12	6:D6:628:LEU:HD13	1.88	0.55
8:F2:1095:TYR:CE1	17:O4:241:SER:HB2	2.33	0.55
9:G1:263:MET:HB3	17:O2:260:LEU:CB	2.37	0.55
9:G2:255:LEU:CA	17:O4:262:ASP:CG	2.69	0.55
11:I1:952:LEU:CD1	16:N1:400:LEU:CD1	2.83	0.55
11:I1:981:VAL:HG12	20:R1:151:LYS:CB	2.04	0.55
11:I1:1061:ASP:HB2	17:O1:279:ILE:HD12	1.88	0.55
11:I1:1108:PRO:HG3	16:N1:444:SER:N	2.20	0.55
11:I2:717:GLU:N	11:I2:717:GLU:OE1	2.39	0.55
11:I2:882:LYS:HB2	17:O3:249:ARG:N	2.21	0.55
11:I2:899:LEU:HA	17:O3:235:ASN:HB2	1.89	0.55
11:I2:1049:LEU:C	17:O3:291:ASP:HB2	2.31	0.55
17:O4:110:LEU:C	18:P1:278:ASN:HD22	2.14	0.55
17:O4:111:TYR:OH	18:P4:321:ILE:CD1	2.54	0.55
22:T3:779:GLN:N	22:T3:780:PRO:HD3	2.19	0.55
22:T4:680:PHE:O	22:T4:682:PRO:HD3	2.06	0.55
23:U2:396:LEU:O	31:c4:554:LEU:HB3	2.06	0.55
23:U2:415:THR:C	31:c4:541:ARG:HH11	2.14	0.55
23:U2:430:PRO:CB	31:c4:458:LYS:O	2.51	0.55
24:V2:682:ALA:HB2	31:c2:51:THR:HA	1.87	0.55
26:X1:163:LYS:HB2	26:X1:172:PHE:CE1	2.41	0.55
26:X1:536:LYS:O	26:X1:540:THR:OG1	2.20	0.55
26:X2:283:ASP:CB	34:i:479:THR:HG23	0.85	0.55
26:X2:309:LEU:HA	34:i:397:ARG:C	2.30	0.55
26:X2:361:LEU:C	34:i:419:THR:C	2.38	0.55
27:Y1:41:ASP:HA	29:a1:231[B]:HIS:NE2	2.17	0.55
28:Z1:288:VAL:HG12	28:Z1:300:MET:HB3	1.88	0.55
28:Z3:411:LEU:HG	30:b3:251:ILE:CD1	2.36	0.55
30:b1:166:LEU:HD22	30:b1:202:VAL:HG21	1.87	0.55
30:b4:21:TRP:CZ3	30:b4:366:HIS:HD2	2.24	0.55
31:c1:161:ARG:NH2	31:c1:164:ASP:OD2	2.39	0.55
31:c5:699:LEU:HD12	31:c5:700:SER:O	2.07	0.55
2:A2:971:ALA:N	6:D1:192:TYR:CE2	2.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:988:ARG:H	6:D1:500:LYS:HZ1	1.52	0.55
2:A2:1125:LEU:HB2	3:A5:135:PHE:N	2.17	0.55
1:A3:1048:ARG:HH21	6:D3:815:GLU:CG	2.19	0.55
1:A3:1227:PRO:CG	3:A6:682:ARG:CD	2.57	0.55
2:A4:541:PRO:O	3:A6:364:HIS:N	2.40	0.55
2:A4:673:HIS:O	3:A6:98:LEU:C	2.44	0.55
2:A4:792:VAL:H	3:A6:187:THR:CG2	2.16	0.55
2:A4:806:PHE:CD2	3:A6:382:SER:CB	2.89	0.55
2:A4:905:MSE:HE3	3:A6:133:LYS:NZ	2.21	0.55
2:A4:949:PHE:CD2	4:B6:348:PRO:HD3	2.41	0.55
2:A4:955:CYS:N	4:B6:345:LYS:N	2.55	0.55
3:A5:1379:GLY:O	28:Z2:811:LEU:O	2.24	0.55
6:D7:585:GLY:O	6:D7:631:LEU:HD11	2.06	0.55
8:F1:1093:LEU:HD11	17:O2:241:SER:N	2.16	0.55
8:F2:650:ASN:OD1	8:F2:651:THR:N	2.40	0.55
11:I1:958:THR:HB	16:N1:399:HIS:CA	2.37	0.55
11:I1:980:ILE:HG12	15:M1:621:ARG:HB3	1.87	0.55
11:I1:986:ASN:HB2	15:M1:612:PRO:HD2	1.88	0.55
11:I1:1543:LEU:HD13	11:I2:1677:LYS:NZ	2.20	0.55
11:I2:962:ILE:HG12	15:M3:600:ASN:ND2	2.21	0.55
11:I2:991:THR:N	15:M3:611:LYS:HB2	2.08	0.55
11:I5:1284:GLU:N	11:I5:1284:GLU:OE1	2.38	0.55
21:S1:677:TYR:HA	21:S2:1128:ALA:CB	2.35	0.55
22:T1:885:ARG:HG3	22:T1:885:ARG:NH1	2.17	0.55
23:U1:163:ARG:HD3	24:V1:292:ILE:HD11	1.88	0.55
23:U1:210:MET:HE3	24:V1:322:LEU:HD22	1.88	0.55
23:U2:25:GLU:C	31:c4:578:TRP:HE1	2.13	0.55
23:U2:437:ASN:CB	31:c4:195:ILE:HB	2.30	0.55
23:U4:237:ILE:HD11	23:U4:240:HIS:HA	1.87	0.55
26:X2:321:ALA:HB3	34:i:84:ARG:NE	1.80	0.55
27:Y1:238:GLY:HA2	27:Y1:305:GLY:O	2.05	0.55
28:Z1:555:LYS:CB	30:b1:213:ASP:N	2.70	0.55
31:c2:188:CYS:SG	31:c2:207:VAL:HG22	2.45	0.55
31:c3:161:ARG:NH2	31:c3:164:ASP:OD2	2.39	0.55
32:g:82:ASP:O	32:g:83:LYS:HG3	2.06	0.55
32:g:333:SER:O	32:g:335:GLN:HG2	2.06	0.55
1:A1:1197:ALA:HB1	2:A2:728:LYS:CG	2.35	0.55
2:A2:235:TYR:OH	4:B2:347:LEU:HD12	2.05	0.55
2:A2:826:ASN:OD1	6:D1:633:LYS:HG3	2.06	0.55
2:A2:864:ARG:HE	6:D1:632:ALA:CB	2.19	0.55
2:A2:904:GLN:C	6:D1:603:SER:H	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:978:ASP:C	6:D1:476:VAL:HB	2.26	0.55
2:A2:1137:ALA:CB	3:A5:564:ASN:CA	2.83	0.55
1:A3:1083:SER:OG	6:D3:798:MET:SD	0.58	0.55
1:A3:1121:LEU:CA	3:A6:599:ARG:NH2	2.69	0.55
1:A3:1261:TYR:CE2	3:A6:616:ALA:CA	2.89	0.55
2:A4:687:LEU:HD21	3:A6:403:ARG:HG2	1.89	0.55
2:A4:720:LEU:CA	3:A6:512:GLU:CA	2.64	0.55
2:A4:729:SER:C	3:A6:678:LEU:CD2	2.69	0.55
2:A4:852:ASP:OD2	3:A6:155:TYR:N	2.38	0.55
3:A5:1028:VAL:O	11:I5:67:LYS:HB3	2.01	0.55
3:A6:115:SER:CB	6:D3:683:LYS:HG2	2.37	0.55
8:F1:1205:TRP:HE1	17:O2:251:ILE:HG23	0.74	0.55
8:F1:1290:VAL:O	8:F1:1290:VAL:HG12	2.06	0.55
11:I1:77:GLU:N	11:I1:77:GLU:OE1	2.38	0.55
11:I1:882:LYS:HE3	17:O1:245:GLU:HG2	1.89	0.55
11:I1:955:LYS:CB	16:N1:400:LEU:HG	2.34	0.55
11:I1:959:SER:CA	16:N1:395:GLU:CB	2.58	0.55
11:I1:1044:GLY:C	17:O1:280:GLU:OE2	2.49	0.55
11:I1:1669:ARG:HB2	11:I2:1664:PHE:HE1	0.81	0.55
11:I2:935:GLY:HA2	15:M3:606:LEU:CA	2.13	0.55
11:I2:952:LEU:HD11	15:M3:599:ILE:CG1	2.34	0.55
11:I2:1030:ARG:HE	20:R3:179:LYS:HE2	1.71	0.55
11:I2:1049:LEU:HA	15:M3:622:VAL:HG11	1.88	0.55
11:I4:819:MET:SD	27:Y3:178:PHE:CE1	3.00	0.55
21:S2:374:THR:OG1	21:S2:387:THR:OG1	2.24	0.55
21:S2:940:GLU:OE1	21:S2:949:ALA:HA	2.05	0.55
21:S4:940:GLU:OE1	21:S4:949:ALA:HA	2.05	0.55
22:T1:736:LEU:CD1	31:c5:28:LYS:CE	2.72	0.55
22:T4:885:ARG:HG3	22:T4:885:ARG:NH1	2.17	0.55
23:U2:210:MET:O	24:V2:325:TYR:OH	2.21	0.55
23:U2:395:CYS:HB3	31:c4:552:ARG:C	2.25	0.55
24:V1:180:LEU:HD11	24:V1:478:PHE:HE1	1.71	0.55
24:V2:156:THR:HG22	24:V2:514:ARG:HD2	1.88	0.55
25:W1:200:LEU:HD11	25:W1:243:TRP:CD1	2.41	0.55
25:W2:49:LEU:HB3	25:W2:82:TRP:CZ3	2.42	0.55
25:W4:200:LEU:HD11	25:W4:243:TRP:CD1	2.41	0.55
26:X1:401:LYS:HB2	37:k2:450:HIS:NE2	2.18	0.55
26:X2:199:GLU:HB2	34:i:301:PRO:HG3	1.88	0.55
26:X2:294:GLN:OE1	34:i:413:VAL:O	2.24	0.55
26:X3:60:LYS:C	26:X3:62:GLY:H	2.14	0.55
28:Z2:555:LYS:CB	30:b2:213:ASP:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:555:LYS:HE3	30:b3:216:LEU:HD22	1.31	0.55
2:A2:225:THR:HG21	6:D1:706:HIS:CG	2.42	0.55
2:A2:973:GLU:CD	6:D1:205:LEU:HD11	2.18	0.55
1:A3:1182:ILE:HG22	3:A6:639:ASN:ND2	2.19	0.55
1:A3:1244:LEU:HD23	3:A6:633:MET:CE	2.33	0.55
1:A3:1396:GLY:HA2	3:A6:171:HIS:NE2	2.16	0.55
2:A4:86:ASN:HA	3:A6:406:LEU:HB2	1.88	0.55
2:A4:97:ASP:HB3	3:A6:364:HIS:CD2	2.42	0.55
2:A4:869:ALA:HB2	6:D3:583:ILE:HG21	1.88	0.55
2:A4:891:GLY:O	3:A6:231:SER:C	2.43	0.55
2:A4:978:ASP:OD1	6:D3:463:PHE:CE1	2.60	0.55
3:A5:1029:ILE:CA	11:I5:68:ILE:N	2.61	0.55
3:A5:1056:PHE:CZ	11:I5:38:GLN:HA	2.37	0.55
3:A6:444:ARG:CB	6:D3:737:PHE:CE2	2.89	0.55
3:A6:1391:ARG:CA	28:Z4:908:LEU:O	2.53	0.55
6:D1:585:GLY:O	6:D1:631:LEU:HD11	2.06	0.55
6:D6:585:GLY:O	6:D6:631:LEU:HD11	2.07	0.55
8:F1:650:ASN:OD1	8:F1:651:THR:N	2.40	0.55
11:I1:934:LEU:N	15:M1:602:MET:CA	2.15	0.55
11:I1:939:ASN:HA	17:O1:264:ILE:O	2.05	0.55
11:I1:948:ALA:N	17:O1:256:TYR:CD2	2.74	0.55
11:I1:980:ILE:O	15:M1:618:GLN:HG3	2.06	0.55
11:I1:994:ALA:N	17:O1:271:GLU:HG3	2.04	0.55
11:I1:1736:LEU:CG	11:I2:1607:GLN:NE2	2.68	0.55
11:I2:797:LEU:HD13	17:O3:245:GLU:HA	0.63	0.55
11:I2:840:LEU:CB	17:O3:247:TRP:HD1	2.10	0.55
11:I2:842:ASN:O	15:M3:591:ASP:OD1	2.25	0.55
11:I2:1030:ARG:H	20:R3:173:LEU:N	1.98	0.55
11:I2:1036:PRO:HD2	15:M3:626:HIS:HB2	1.89	0.55
11:I2:1039:ALA:CB	20:R3:170:LEU:HG	0.24	0.55
11:I3:1273:GLU:CB	26:X1:526:CYS:C	2.78	0.55
15:M4:598:GLU:OE1	17:O4:254:ARG:NH1	2.40	0.55
17:O3:148:ARG:CD	18:P3:325:ILE:CG2	2.83	0.55
23:U1:172:LYS:HE2	31:c1:506:HIS:C	2.31	0.55
23:U2:392:LEU:CG	31:c4:549:ALA:HA	2.37	0.55
23:U2:396:LEU:CD1	31:c4:547:ASN:O	2.38	0.55
23:U2:409:LYS:HG3	31:c4:542:LYS:O	2.06	0.55
24:V2:180:LEU:HD11	24:V2:478:PHE:HE1	1.71	0.55
25:W3:49:LEU:HB3	25:W3:82:TRP:CZ3	2.42	0.55
25:W3:200:LEU:HD11	25:W3:243:TRP:CD1	2.41	0.55
25:W4:49:LEU:HB3	25:W4:82:TRP:CZ3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:163:LYS:HB2	26:X2:172:PHE:CE1	2.41	0.55
27:Y3:128:LEU:HD23	27:Y3:169:PHE:HB3	1.89	0.55
27:Y4:219:SER:HG	27:Y4:312:TRP:CD1	2.24	0.55
28:Z2:91:LYS:NZ	28:Z2:142:ALA:O	2.30	0.55
28:Z2:245:ILE:HG21	28:Z2:311:LEU:HD23	1.88	0.55
28:Z3:555:LYS:CB	30:b3:213:ASP:N	2.70	0.55
28:Z4:555:LYS:CB	30:b4:213:ASP:N	2.70	0.55
29:a1:13:ILE:HG13	29:a1:372[B]:ILE:HD11	1.89	0.55
30:b1:21:TRP:CZ3	30:b1:366:HIS:HD2	2.24	0.55
30:b2:242:LEU:HD13	30:b2:305:PRO:HG3	1.89	0.55
30:b4:333:HIS:HD2	30:b4:336:HIS:H	1.52	0.55
34:i:452:ILE:HD11	34:i:480[B]:MET:HE1	1.88	0.55
1:A3:1083:SER:HB3	6:D3:798:MET:HE3	0.55	0.55
1:A3:1084:ARG:HA	6:D3:794:THR:CA	2.32	0.55
1:A3:1268:ASP:OD2	3:A6:709:LYS:NZ	2.36	0.55
1:A3:1271:ILE:CD1	3:A6:552:PHE:H	2.19	0.55
2:A4:538:ALA:HB1	3:A6:359:LEU:C	2.31	0.55
2:A4:576:VAL:HG12	3:A6:509:LYS:NZ	2.21	0.55
2:A4:576:VAL:HA	3:A6:509:LYS:HZ3	1.71	0.55
2:A4:806:PHE:CD2	3:A6:470:ARG:CB	2.89	0.55
2:A4:853:VAL:HG23	3:A6:169:TYR:HD1	1.72	0.55
2:A4:855:THR:CG2	3:A6:168:ASP:CA	2.84	0.55
2:A4:891:GLY:O	3:A6:232:LEU:O	2.24	0.55
2:A4:1277:TRP:CG	2:A4:1278:PRO:HD3	2.41	0.55
3:A5:996:ASN:OD1	11:I5:56:ARG:N	2.39	0.55
3:A5:1031:TYR:H	11:I5:67:LYS:CG	2.19	0.55
3:A6:1376:LEU:C	28:Z4:830:LEU:CB	2.80	0.55
6:D1:612:VAL:HG12	6:D1:628:LEU:HD13	1.88	0.55
8:F1:1265:GLN:CD	17:O2:258:GLU:O	2.48	0.55
8:F2:1290:VAL:O	8:F2:1290:VAL:HG12	2.06	0.55
11:I1:877:ILE:CG1	17:O1:251:ILE:O	2.54	0.55
11:I1:962:ILE:CG2	20:R1:166:LEU:CD1	2.80	0.55
11:I1:984:GLU:HG3	15:M1:617:THR:HG23	1.88	0.55
11:I1:991:THR:HG21	15:M1:611:LYS:H	1.64	0.55
11:I1:1605:LEU:CB	11:I2:1669:ARG:NE	2.56	0.55
11:I2:800:PHE:HB3	17:O3:245:GLU:OE2	2.07	0.55
11:I2:884:LEU:HD13	15:M3:599:ILE:HD13	1.88	0.55
11:I2:1065:SER:HA	17:O3:274:GLY:C	2.31	0.55
11:I5:1112:SER:CB	12:J5:241:THR:HB	2.37	0.55
15:M2:598:GLU:OE1	17:O2:254:ARG:NH1	2.40	0.55
21:S1:654:LYS:N	21:S2:1156:ILE:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1032:ILE:HD12	21:S2:1051:ALA:CA	2.36	0.55
22:T1:724:TYR:OH	31:c5:27:MET:C	2.50	0.55
22:T2:680:PHE:O	22:T2:682:PRO:HD3	2.06	0.55
23:U1:19:LEU:CG	31:c2:470:ARG:HD3	2.37	0.55
23:U1:437:ASN:HB2	31:c2:540:HIS:N	2.19	0.55
23:U2:38:ILE:CD1	31:c4:531:TRP:NE1	2.60	0.55
23:U2:42:PHE:CD1	31:c4:478:SER:N	2.43	0.55
23:U2:78:VAL:HG13	31:c4:553:LEU:CG	2.37	0.55
26:X2:333:GLU:HG3	34:i:475:ILE:O	2.05	0.55
26:X2:368:LEU:H	34:i:441:LEU:HB3	1.66	0.55
26:X3:70:LYS:HD2	27:Y3:15:VAL:O	2.07	0.55
28:Z1:561:GLN:HB3	30:b1:236:THR:O	2.05	0.55
28:Z2:526:ARG:HD3	30:b2:207:GLY:CA	2.36	0.55
28:Z3:526:ARG:HB3	30:b3:206:ASN:HB2	1.80	0.55
28:Z3:639:LEU:HD23	30:b3:232:PRO:HG3	1.88	0.55
28:Z4:288:VAL:HG12	28:Z4:300:MET:HB3	1.88	0.55
28:Z4:411:LEU:H	30:b4:251:ILE:HD13	1.11	0.55
29:a2:13:ILE:HG13	29:a2:372[B]:ILE:HD11	1.88	0.55
29:a2:214[B]:THR:HG23	29:a2:252[B]:MET:HE2	1.88	0.55
30:b4:264:ASP:OD1	30:b4:264:ASP:N	2.40	0.55
31:c1:357:MET:HE1	31:c1:514:CYS:O	2.06	0.55
2:A2:223:THR:O	6:D1:709:ARG:NH2	2.40	0.55
1:A3:1098:ARG:NH2	11:I2:1421:ARG:HH21	2.04	0.55
1:A3:1186:TRP:CH2	3:A6:583:LEU:HD23	2.42	0.55
1:A3:1259:CYS:HA	3:A6:624:ASP:OD1	2.07	0.55
2:A4:623:SER:CB	3:A6:453:SER:CB	2.69	0.55
2:A4:713:ILE:HD12	3:A6:462:LEU:HD13	1.88	0.55
2:A4:751:GLN:O	3:A6:538:ALA:HB1	2.07	0.55
2:A4:753:GLU:CA	3:A6:542:LEU:HB2	2.23	0.55
2:A4:781:ARG:HD2	6:D3:633:LYS:CE	2.34	0.55
2:A4:792:VAL:HA	3:A6:249:SER:HG	1.71	0.55
2:A4:801:THR:OG1	3:A6:381:LEU:HB2	2.04	0.55
2:A4:819:VAL:CG2	3:A6:567:VAL:HG22	2.36	0.55
2:A4:901:ALA:HB2	3:A6:176:LEU:CD1	2.37	0.55
2:A4:947:LYS:CD	3:A6:203:ILE:HG12	2.37	0.55
3:A5:1370:ALA:N	28:Z2:825:TYR:C	2.64	0.55
3:A6:1398:LYS:HB3	28:Z4:920:SER:H	1.71	0.55
6:D2:585:GLY:O	6:D2:631:LEU:HD11	2.06	0.55
8:F1:257:ARG:NH2	8:F1:285:GLU:OE1	2.39	0.55
9:G2:256:GLN:N	17:O4:262:ASP:OD2	2.39	0.55
11:I1:717:GLU:N	11:I1:717:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:932:VAL:HG12	15:M1:605:THR:HG22	1.87	0.55
11:I1:976:ARG:HH12	15:M1:622:VAL:HA	1.70	0.55
11:I2:913:ALA:C	15:M3:584:GLN:O	2.49	0.55
11:I2:1028:CYS:C	20:R3:170:LEU:N	2.63	0.55
11:I2:1031:ALA:CB	20:R3:173:LEU:HA	2.37	0.55
11:I2:1050:SER:HA	17:O3:290:TYR:HB2	1.88	0.55
11:I2:1112:SER:CB	12:J2:241:THR:HB	2.37	0.55
11:I4:1284:GLU:N	11:I4:1284:GLU:OE1	2.38	0.55
21:S1:176:MET:CE	21:S1:232:LEU:CD1	2.85	0.55
21:S3:1028:ALA:HB3	21:S3:1029:PRO:HD3	1.89	0.55
22:T1:755:GLU:CB	31:c5:58:ARG:NH1	2.70	0.55
26:X1:461:MET:O	26:X1:465:MET:HG3	2.07	0.55
28:Z3:537:THR:CG2	28:Z3:743:ASN:HA	2.31	0.55
29:a4:13:ILE:HG13	29:a4:372[B]:ILE:HD11	1.89	0.55
31:c1:315:LEU:HD21	31:c1:385:LEU:HA	1.88	0.55
31:c3:541:ARG:O	31:c3:541:ARG:HG2	2.06	0.55
31:c4:315:LEU:HD21	31:c4:385:LEU:HA	1.89	0.55
31:c5:315:LEU:HD21	31:c5:385:LEU:HA	1.88	0.55
31:c5:357:MET:HE1	31:c5:514:CYS:O	2.07	0.55
1:A1:869:ALA:N	6:D3:280:GLN:CB	2.62	0.55
1:A1:1399:ARG:CZ	2:A2:887:GLU:N	2.69	0.55
2:A2:781:ARG:HD3	6:D1:673:ARG:HD2	1.89	0.55
2:A2:867:GLU:CB	6:D1:609:ILE:CD1	2.82	0.55
2:A2:1305:ALA:HB3	2:A2:1306:PRO:CD	2.36	0.55
1:A3:1054:SER:CB	6:D3:809:ALA:C	2.80	0.55
1:A3:1164:TYR:C	3:A6:594:LEU:HD21	2.20	0.55
1:A3:1182:ILE:CG2	3:A6:639:ASN:CB	2.47	0.55
2:A4:646:ILE:HD12	3:A6:500:LYS:HG2	1.86	0.55
2:A4:678:LEU:CD2	3:A6:431:PHE:HD2	2.14	0.55
2:A4:735:ALA:O	3:A6:92:ASP:CB	2.47	0.55
2:A4:796:GLN:OE1	3:A6:249:SER:O	1.80	0.55
3:A6:1135:ARG:HE	5:C6:743:LEU:CD1	2.18	0.55
6:D3:585:GLY:O	6:D3:631:LEU:HD11	2.06	0.55
6:D4:585:GLY:O	6:D4:631:LEU:HD11	2.07	0.55
8:F1:69:LYS:N	8:F1:106:ASN:OD1	2.39	0.55
8:F2:69:LYS:N	8:F2:106:ASN:OD1	2.39	0.55
8:F2:472:ARG:CZ	11:I2:171:TRP:HB2	2.37	0.55
8:F2:1556:GLN:N	8:F2:1630:GLU:OE1	2.40	0.55
9:G1:257:THR:CA	17:O2:253:LEU:H	2.05	0.55
11:I1:937:TYR:O	17:O1:258:GLU:CA	2.54	0.55
11:I1:1112:SER:CB	12:J1:241:THR:HB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:882:LYS:CB	17:O3:245:GLU:C	2.74	0.55
11:I2:1034:ASP:O	16:N3:441:PHE:CE2	2.58	0.55
11:I2:1045:PHE:HA	17:O3:280:GLU:CA	2.37	0.55
17:O3:147:ALA:CB	18:P3:328:PRO:HG3	2.34	0.55
21:S4:176:MET:CE	21:S4:232:LEU:CD1	2.85	0.55
23:U1:431:ILE:HD13	31:c2:469:SER:CB	2.18	0.55
23:U2:23:LYS:C	31:c4:487:PHE:H	2.14	0.55
23:U2:25:GLU:O	31:c4:578:TRP:NE1	2.38	0.55
23:U2:115:GLN:NE2	31:c4:92:THR:N	2.49	0.55
23:U2:357:SER:N	31:c4:126:PRO:HG3	2.22	0.55
23:U2:412:LEU:HD23	31:c4:541:ARG:NH2	2.22	0.55
24:V3:180:LEU:HD11	24:V3:478:PHE:HE1	1.71	0.55
25:W1:49:LEU:HB3	25:W1:82:TRP:CZ3	2.41	0.55
26:X2:361:LEU:HD22	34:i:441:LEU:HG	1.87	0.55
26:X2:363:TYR:CD2	34:i:419:THR:CB	2.89	0.55
26:X3:265:ILE:C	26:X3:267:ARG:H	2.12	0.55
26:X4:461:MET:O	26:X4:465:MET:HG3	2.07	0.55
28:Z3:245:ILE:HG21	28:Z3:311:LEU:HD23	1.88	0.55
28:Z3:561:GLN:HB3	30:b3:236:THR:O	2.05	0.55
29:a4:358[A]:VAL:HG13	29:a4:363[A]:LEU:HD23	1.89	0.55
31:c2:161:ARG:NH2	31:c2:164:ASP:OD2	2.39	0.55
33:h:268:CYS:SG	33:h:270:MET:CE	2.95	0.55
1:A1:1018:ASP:OD2	6:D1:819:ASN:CB	2.54	0.55
2:A2:970:PHE:CA	6:D1:202:GLN:HG3	2.36	0.55
1:A3:1189:LEU:HD12	3:A6:641:ALA:HB2	1.88	0.55
1:A3:1306:PRO:HD3	3:A6:719:ARG:HG3	1.87	0.55
1:A3:1325:MET:CE	3:A6:126:ARG:HD3	2.16	0.55
2:A4:89:LEU:H	3:A6:406:LEU:CA	2.20	0.55
2:A4:676:LEU:CD2	3:A6:499:ILE:HD13	2.37	0.55
2:A4:726:ALA:N	3:A6:575:LEU:HB2	2.22	0.55
2:A4:893:LEU:CD2	3:A6:176:LEU:C	2.63	0.55
2:A4:978:ASP:O	6:D3:475:ALA:C	2.50	0.55
3:A5:1367:THR:CG2	28:Z2:844:CYS:C	2.37	0.55
3:A6:484:PRO:HB2	6:D3:672:GLU:CD	2.30	0.55
3:A6:1385:GLU:OE1	28:Z4:907:LEU:CA	2.54	0.55
8:F2:472:ARG:NH2	11:I2:171:TRP:HB2	2.21	0.55
11:I1:880:MET:HB2	17:O1:250:LEU:H	1.70	0.55
11:I1:984:GLU:HG3	15:M1:617:THR:HG22	1.88	0.55
11:I1:1036:PRO:C	15:M1:624:ASN:N	2.54	0.55
11:I1:1114:VAL:HG12	16:N1:432:TYR:CD2	1.92	0.55
11:I1:1642:LEU:CD1	11:I2:1669:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1040:HIS:CA	16:N3:434:LEU:HD13	2.37	0.55
11:I4:8:GLU:N	11:I4:8:GLU:OE1	2.39	0.55
17:O4:110:LEU:CB	18:P4:321:ILE:CB	2.52	0.55
21:S2:176:MET:HE1	21:S2:232:LEU:HD13	1.89	0.55
23:U2:26:GLN:HB3	31:c4:491:VAL:HG23	1.89	0.55
23:U2:155:SER:HA	24:V2:351:ILE:HA	1.88	0.55
23:U2:393:ALA:HB1	31:c4:543:ALA:CB	2.36	0.55
26:X2:280:VAL:HG21	26:X2:321:ALA:HB3	1.89	0.55
26:X2:296:PRO:CD	34:i:448:PHE:O	2.52	0.55
26:X2:461:MET:O	26:X2:465:MET:HG3	2.07	0.55
28:Z1:639:LEU:HD23	30:b1:232:PRO:HG3	1.88	0.55
28:Z3:534:ASP:CB	30:b3:183:LEU:N	2.33	0.55
31:c1:699:LEU:HD12	31:c1:700:SER:O	2.07	0.55
31:c2:315:LEU:HD21	31:c2:385:LEU:HA	1.88	0.55
31:c2:357:MET:HE1	31:c2:514:CYS:O	2.06	0.55
31:c3:315:LEU:HD21	31:c3:385:LEU:HA	1.88	0.55
2:A2:866:SER:HA	6:D1:598:ILE:HG12	1.89	0.55
2:A2:1137:ALA:CB	3:A5:564:ASN:C	2.79	0.55
1:A3:1056:PHE:CE2	6:D3:806:ASP:C	2.80	0.55
1:A3:1099:GLN:CD	11:I2:1415:SER:C	2.72	0.55
1:A3:1192:GLN:N	3:A6:645:PHE:CE2	2.75	0.55
1:A3:1399:ARG:HB3	2:A4:884:ARG:NE	2.21	0.55
2:A4:689:LYS:HD2	3:A6:336:ILE:HD13	0.72	0.55
2:A4:713:ILE:N	3:A6:436:PRO:HD3	2.15	0.55
2:A4:763:LEU:CD1	3:A6:470:ARG:CD	2.84	0.55
2:A4:859:GLN:NE2	3:A6:167:TRP:CD2	2.74	0.55
2:A4:886:PHE:HZ	3:A6:176:LEU:CD1	2.19	0.55
2:A4:892:SER:O	3:A6:155:TYR:HE2	1.86	0.55
2:A4:973:GLU:N	6:D3:205:LEU:CB	2.70	0.55
3:A5:234:LEU:CA	5:C2:738:ASP:CA	2.83	0.55
3:A5:1135:ARG:HE	5:C5:743:LEU:CD1	2.18	0.55
11:I2:794:MET:HG2	17:O3:248:SER:HB2	1.89	0.55
11:I2:881:ILE:HG23	17:O3:249:ARG:HH21	1.55	0.55
11:I2:922:ASP:H	15:M3:592:LEU:CB	2.19	0.55
11:I2:1039:ALA:HB2	20:R3:170:LEU:N	2.20	0.55
11:I2:1043:LEU:HA	16:N3:430:ARG:HG3	1.89	0.55
11:I2:1114:VAL:HG21	16:N3:435:ALA:N	1.96	0.55
11:I4:1282:PHE:CZ	29:a3:24[B]:GLY:H	1.60	0.55
21:S3:176:MET:HE1	21:S3:232:LEU:HD13	1.89	0.55
22:T1:680:PHE:O	22:T1:682:PRO:HD3	2.06	0.55
22:T1:736:LEU:CB	31:c5:19:THR:HG21	1.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:410:SER:HA	23:U1:436:LEU:HD11	1.89	0.55
23:U2:38:ILE:HD13	31:c4:555:VAL:CG1	2.37	0.55
23:U2:38:ILE:HB	31:c4:555:VAL:O	2.07	0.55
23:U3:210:MET:HE3	24:V3:322:LEU:HD22	1.88	0.55
24:V1:339:LEU:CD2	31:c1:627:ASP:CA	2.79	0.55
25:W1:236:GLN:HB2	25:W1:243:TRP:CE3	2.42	0.55
26:X1:64:LYS:HB3	27:Y1:324:ASP:HB3	1.89	0.55
26:X2:204:PHE:HA	34:i:443:THR:HA	1.88	0.55
26:X2:301:SER:HB3	34:i:326:ILE:N	2.22	0.55
26:X2:318:GLY:CA	34:i:475:ILE:HG22	2.09	0.55
26:X3:461:MET:O	26:X3:465:MET:HG3	2.07	0.55
28:Z2:530:LYS:HZ3	30:b2:164:CYS:HA	1.70	0.55
28:Z4:232:ARG:NE	28:Z4:249:THR:OG1	2.39	0.55
28:Z4:245:ILE:HG21	28:Z4:311:LEU:HD23	1.88	0.55
28:Z4:410:ASN:ND2	30:b4:252:ALA:N	2.47	0.55
32:g:312:GLU:HG3	32:g:413:LEU:HD21	1.88	0.55
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HA	2.37	0.55
1:A1:1333:ARG:CA	6:D1:637:LYS:CD	2.85	0.55
2:A2:971:ALA:C	6:D1:203:PRO:CG	2.73	0.55
2:A2:982:THR:CB	6:D1:494:LEU:CA	2.73	0.55
1:A3:1196:GLU:C	3:A6:609:GLU:CB	2.78	0.55
1:A3:1220:PRO:CG	2:A4:646:ILE:HG23	2.36	0.55
1:A3:1230:TYR:C	3:A6:575:LEU:O	2.49	0.55
2:A4:615:LEU:HD12	3:A6:511:PHE:CD2	2.39	0.55
2:A4:825:ARG:HH22	3:A6:564:ASN:CB	2.14	0.55
2:A4:856:PHE:CE2	3:A6:565:THR:O	2.60	0.55
2:A4:878:LEU:CD2	6:D3:607:PRO:CA	2.79	0.55
2:A4:976:LEU:HD12	6:D3:501:LEU:HD13	1.89	0.55
2:A4:1305:ALA:HB3	2:A4:1306:PRO:CD	2.36	0.55
3:A6:446:LEU:CD1	6:D3:721:PRO:C	2.77	0.55
8:F1:1265:GLN:OE1	17:O2:259:ASP:C	2.50	0.55
9:G2:257:THR:CG2	17:O4:257:ALA:H	2.19	0.55
11:I1:8:GLU:N	11:I1:8:GLU:OE1	2.39	0.55
11:I1:880:MET:CA	17:O1:250:LEU:H	2.19	0.55
11:I1:924:ILE:O	15:M1:597:LYS:CA	2.52	0.55
11:I1:965:ALA:C	20:R1:153:GLN:NE2	2.65	0.55
11:I2:8:GLU:N	11:I2:8:GLU:OE1	2.39	0.55
11:I2:939:ASN:CA	17:O3:264:ILE:O	2.31	0.55
11:I2:949:CYS:CB	15:M3:606:LEU:HD22	2.24	0.55
11:I2:977:ASN:N	20:R3:147:LEU:C	2.62	0.55
11:I2:980:ILE:CG1	20:R3:147:LEU:HA	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1277:LEU:CG	26:X1:522:MET:CB	2.82	0.55
11:I4:624:GLU:O	11:I4:627:ASN:ND2	2.40	0.55
11:I5:1278:ALA:CB	26:X2:517:ASP:OD1	2.55	0.55
21:S1:122:LYS:HG2	21:S1:141:GLU:OE2	2.07	0.55
21:S2:882:GLN:C	21:S2:884:ARG:H	2.15	0.55
21:S4:374:THR:OG1	21:S4:387:THR:OG1	2.24	0.55
23:U1:41:GLU:OE1	31:c2:472:GLU:HB2	2.06	0.55
23:U2:404:VAL:H	31:c4:551:LEU:CD2	2.10	0.55
23:U4:210:MET:HE3	24:V4:322:LEU:HD22	1.88	0.55
24:V1:335:ASP:O	31:c1:626:ILE:CG2	2.52	0.55
25:W2:95:HIS:CE1	25:W2:97:VAL:HG22	2.42	0.55
26:X4:70:LYS:HD2	27:Y4:15:VAL:O	2.07	0.55
28:Z2:526:ARG:HB3	30:b2:206:ASN:HB2	1.80	0.55
28:Z3:561:GLN:NE2	30:b3:237:LEU:CD1	2.60	0.55
29:a4:9:VAL:HG11	29:a4:372[A]:ILE:HD12	1.89	0.55
30:b4:166:LEU:HD22	30:b4:202:VAL:HG21	1.87	0.55
31:c4:699:LEU:HD12	31:c4:700:SER:O	2.07	0.55
31:c5:541:ARG:O	31:c5:541:ARG:HG2	2.06	0.55
1:A1:864:ARG:NH1	6:D3:299:ILE:HG21	2.22	0.54
1:A1:1201:ARG:HH22	2:A2:761:GLN:HE22	1.54	0.54
2:A2:872:ALA:CA	6:D1:568:ARG:N	2.61	0.54
2:A2:986:THR:N	6:D1:497:PHE:CE1	2.69	0.54
2:A2:1121:LEU:HA	3:A5:133:LYS:HG3	1.89	0.54
1:A3:1235:ILE:HD11	3:A6:617:VAL:CG1	2.38	0.54
2:A4:80:LYS:CG	3:A6:323:THR:HB	2.37	0.54
2:A4:713:ILE:N	3:A6:436:PRO:HD2	2.21	0.54
2:A4:763:LEU:HD22	3:A6:384:ILE:HG12	1.88	0.54
2:A4:771:ILE:CG2	3:A6:490:PHE:O	2.55	0.54
2:A4:788:ARG:CB	3:A6:145:THR:CB	2.84	0.54
2:A4:974:PRO:CA	6:D3:499:LEU:CG	2.81	0.54
3:A5:1005:PHE:CZ	11:I5:67:LYS:CE	2.89	0.54
8:F1:540:GLU:N	8:F1:540:GLU:OE1	2.37	0.54
8:F1:1093:LEU:CB	17:O2:244:GLU:OE2	2.52	0.54
11:I1:1049:LEU:O	17:O1:291:ASP:HB2	2.06	0.54
11:I1:1071:LEU:H	16:N1:429:GLU:CB	2.18	0.54
11:I1:1108:PRO:CG	16:N1:444:SER:H	2.19	0.54
11:I1:1114:VAL:H	16:N1:435:ALA:CB	1.94	0.54
11:I1:1611:PHE:CG	11:I2:1669:ARG:CA	2.89	0.54
11:I2:77:GLU:N	11:I2:77:GLU:OE1	2.38	0.54
11:I2:840:LEU:CD1	17:O3:247:TRP:HD1	2.19	0.54
11:I2:931:VAL:O	15:M3:601:ASP:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:938:CYS:O	17:O3:261:LYS:HA	2.06	0.54
11:I2:945:LEU:HD13	17:O3:255:GLY:HA2	1.88	0.54
11:I2:1109:LEU:HB2	16:N3:441:PHE:HB2	1.90	0.54
11:I3:1112:SER:CB	12:J3:241:THR:HB	2.37	0.54
21:S2:1028:ALA:HB3	21:S2:1029:PRO:HD3	1.89	0.54
21:S3:122:LYS:HG2	21:S3:141:GLU:OE2	2.07	0.54
21:S3:678:GLU:C	21:S4:1141:GLU:HA	2.32	0.54
23:U1:34:ASP:HB3	23:U1:35:PRO:HD3	1.88	0.54
23:U1:138:ASN:OD1	31:c1:500:LYS:CG	2.51	0.54
23:U2:24:ILE:HG12	31:c4:482:LEU:O	2.05	0.54
23:U2:210:MET:HE3	24:V2:322:LEU:HD22	1.88	0.54
23:U2:357:SER:HA	31:c4:126:PRO:HB3	1.88	0.54
25:W4:95:HIS:CE1	25:W4:97:VAL:HG22	2.42	0.54
26:X2:192:LEU:HD11	34:i:442:SER:CB	2.37	0.54
26:X2:308:ASN:HB3	34:i:396:HIS:C	2.32	0.54
27:Y2:128:LEU:HD23	27:Y2:169:PHE:HB3	1.89	0.54
28:Z3:102:MET:HB3	28:Z3:107:THR:HG21	1.89	0.54
28:Z3:526:ARG:HD3	30:b3:207:GLY:CA	2.36	0.54
28:Z4:438:GLU:CG	30:b4:333:HIS:HE1	2.16	0.54
30:b1:242:LEU:HD13	30:b1:305:PRO:HG3	1.88	0.54
31:c4:357:MET:HE1	31:c4:514:CYS:O	2.07	0.54
32:g:155:MET:HE3	32:g:165:VAL:HG21	1.88	0.54
1:A1:1222:ALA:HA	2:A2:645:PHE:CE1	2.42	0.54
1:A1:1225:PRO:HB3	2:A2:722:ASN:O	2.07	0.54
2:A2:908:LEU:HD23	6:D1:601:PHE:CA	2.36	0.54
2:A2:980:ARG:HG3	6:D1:526:LEU:HB2	1.89	0.54
2:A2:980:ARG:CA	6:D1:473:GLU:OE2	2.51	0.54
2:A2:981:PRO:CG	6:D1:504:LYS:N	2.70	0.54
2:A2:1154:PHE:HE1	4:B5:342:ARG:NE	2.03	0.54
1:A3:1091:VAL:HG11	6:D3:801:TYR:OH	2.07	0.54
1:A3:1188:ASN:HD22	3:A6:646:ILE:CD1	2.19	0.54
1:A3:1240:HIS:CD2	6:D3:736:ASN:HD22	2.25	0.54
2:A4:576:VAL:HA	3:A6:509:LYS:NZ	2.22	0.54
2:A4:717:VAL:HG11	3:A6:476:PHE:CB	2.37	0.54
2:A4:798:LYS:HD2	3:A6:314:TRP:CD1	2.40	0.54
2:A4:886:PHE:HE1	3:A6:176:LEU:CA	2.19	0.54
2:A4:973:GLU:O	6:D3:499:LEU:CD1	2.55	0.54
3:A6:1399:ARG:HH21	28:Z4:969:MET:N	2.05	0.54
6:D3:612:VAL:HG12	6:D3:628:LEU:HD13	1.88	0.54
8:F1:1556:GLN:N	8:F1:1630:GLU:OE1	2.40	0.54
8:F2:257:ARG:NH2	8:F2:285:GLU:OE1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:834:SER:N	17:O1:237:PRO:C	2.51	0.54
11:I1:1101:LEU:CD2	16:N1:432:TYR:HE1	2.08	0.54
11:I2:887:GLN:HE22	16:N3:396:ILE:CB	2.21	0.54
11:I2:915:ALA:CB	15:M3:582:THR:O	2.55	0.54
11:I2:978:LYS:HE2	20:R3:153:GLN:CA	2.37	0.54
11:I2:1039:ALA:HB1	20:R3:170:LEU:CG	0.21	0.54
11:I2:1068:HIS:HD1	16:N3:428:ASP:HA	1.72	0.54
15:M1:598:GLU:OE1	17:O1:254:ARG:NH1	2.40	0.54
19:Q1:208:GLY:HA3	19:Q1:210:TRP:CZ3	2.43	0.54
21:S3:374:THR:OG1	21:S3:387:THR:OG1	2.24	0.54
21:S3:597:ILE:CB	21:S4:1153:GLN:C	2.69	0.54
21:S4:122:LYS:HG2	21:S4:141:GLU:OE2	2.07	0.54
22:T3:680:PHE:O	22:T3:682:PRO:HD3	2.06	0.54
23:U2:433:ALA:C	31:c4:540:HIS:NE2	2.44	0.54
23:U3:254:ALA:O	24:V3:315:LYS:NZ	2.40	0.54
26:X3:163:LYS:HB2	26:X3:172:PHE:CE1	2.41	0.54
26:X3:328:LEU:O	26:X3:332:ILE:HG13	2.08	0.54
28:Z1:560:ASN:ND2	30:b1:211:ILE:HG21	2.14	0.54
28:Z2:531:LYS:O	30:b2:183:LEU:N	2.40	0.54
28:Z3:232:ARG:NE	28:Z3:249:THR:OG1	2.39	0.54
28:Z3:530:LYS:HZ3	30:b3:164:CYS:HA	1.68	0.54
28:Z3:531:LYS:O	30:b3:183:LEU:N	2.41	0.54
28:Z4:537:THR:CG2	28:Z4:743:ASN:HA	2.31	0.54
30:b3:242:LEU:HD13	30:b3:305:PRO:HG3	1.88	0.54
1:A1:1399:ARG:CA	2:A2:888:GLN:OE1	2.52	0.54
1:A3:1195:PHE:CD2	3:A6:678:LEU:CB	2.90	0.54
2:A4:79:ALA:O	3:A6:321:ASP:OD2	2.25	0.54
2:A4:79:ALA:O	3:A6:384:ILE:O	2.25	0.54
2:A4:552:PHE:C	3:A6:434:PHE:C	2.76	0.54
2:A4:776:MET:HA	3:A6:519:LEU:HD13	1.86	0.54
2:A4:807:SER:HB3	3:A6:383:PRO:O	2.07	0.54
2:A4:857:LYS:NZ	3:A6:129:ASN:CG	2.56	0.54
2:A4:880:ALA:HA	6:D3:558:LYS:HE2	1.85	0.54
2:A4:898:LEU:N	3:A6:176:LEU:O	2.41	0.54
2:A4:951:GLU:HB2	4:B6:347:LEU:CG	2.33	0.54
2:A4:978:ASP:OD1	6:D3:463:PHE:CD1	2.60	0.54
3:A5:1368:GLN:HB2	28:Z2:841:ALA:O	2.07	0.54
6:D7:612:VAL:HG12	6:D7:628:LEU:HD13	1.88	0.54
8:F1:982:PRO:CG	11:I1:1388:GLU:CG	2.86	0.54
8:F1:1491:ARG:NE	9:G1:282:ASN:OD1	2.41	0.54
11:I1:837:MET:HE3	17:O1:243:LEU:H	1.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:882:LYS:HA	17:O1:249:ARG:HD2	1.88	0.54
11:I1:945:LEU:HD21	17:O1:258:GLU:HB2	0.59	0.54
11:I1:1662:ARG:HA	11:I2:1667:GLN:HE22	1.64	0.54
11:I2:950:LEU:HD23	15:M3:606:LEU:CG	2.37	0.54
22:T1:906:GLU:O	22:T1:910:MET:HE2	2.08	0.54
22:T3:906:GLU:O	22:T3:910:MET:HE2	2.08	0.54
23:U2:78:VAL:O	31:c4:553:LEU:HD21	2.07	0.54
26:X2:64:LYS:HB3	27:Y2:324:ASP:HB3	1.89	0.54
26:X2:328:LEU:O	26:X2:332:ILE:HG13	2.08	0.54
26:X2:360:PHE:O	34:i:420:TRP:C	2.49	0.54
26:X2:361:LEU:CD1	34:i:445:GLN:HG2	1.99	0.54
28:Z1:102:MET:HB3	28:Z1:107:THR:HG21	1.90	0.54
28:Z1:534:ASP:OD2	30:b1:183:LEU:CA	2.53	0.54
28:Z2:522:ASN:ND2	30:b2:241:PRO:N	2.52	0.54
28:Z4:639:LEU:HD23	30:b4:232:PRO:HG3	1.88	0.54
29:a1:9:VAL:HG11	29:a1:372[A]:ILE:HD12	1.89	0.54
2:A2:825:ARG:NH2	6:D1:679:ILE:HD11	2.22	0.54
1:A3:777:LEU:HD13	1:A3:822:ILE:HD11	1.90	0.54
1:A3:1079:ILE:O	6:D3:798:MET:CE	2.55	0.54
1:A3:1083:SER:HB2	6:D3:798:MET:HE2	1.19	0.54
1:A3:1261:TYR:CD2	3:A6:616:ALA:CB	2.90	0.54
1:A3:1387:ILE:O	3:A6:225:THR:C	2.50	0.54
2:A4:86:ASN:O	3:A6:406:LEU:CB	2.21	0.54
2:A4:552:PHE:HE1	3:A6:109:ASP:OD2	1.80	0.54
2:A4:645:PHE:HD1	3:A6:500:LYS:C	2.14	0.54
2:A4:691:LYS:HZ2	3:A6:330:LEU:C	2.02	0.54
2:A4:692:VAL:CG1	3:A6:466:ALA:C	2.69	0.54
2:A4:758:HIS:CA	3:A6:544:PHE:CG	2.90	0.54
2:A4:796:GLN:CB	3:A6:249:SER:CB	2.85	0.54
2:A4:805:LEU:HB3	3:A6:468:GLY:O	2.07	0.54
2:A4:878:LEU:CD2	6:D3:608:ILE:N	2.70	0.54
2:A4:977:VAL:HG13	6:D3:476:VAL:CG2	2.38	0.54
3:A6:1364:GLN:HB3	28:Z4:876:LEU:O	2.06	0.54
3:A6:1389:SER:CB	28:Z4:907:LEU:CA	2.78	0.54
8:F1:1262:HIS:NE2	17:O2:259:ASP:CG	2.65	0.54
8:F1:1262:HIS:HB3	17:O2:262:ASP:OD1	2.08	0.54
8:F1:1266:MET:N	17:O2:265:ASN:HD22	2.05	0.54
8:F2:1659:MET:O	8:F2:1712:ASN:ND2	2.36	0.54
9:G2:256:GLN:CD	17:O4:262:ASP:H	2.06	0.54
11:I1:884:LEU:CD2	17:O1:246:LEU:HD13	2.22	0.54
11:I1:931:VAL:CG2	15:M1:604:ASN:CB	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1002:ALA:O	16:N1:413:VAL:O	2.25	0.54
11:I1:1038:ILE:CG1	20:R1:167:GLN:OE1	2.55	0.54
11:I1:1056:PRO:CB	17:O1:278:GLU:HG3	2.33	0.54
11:I2:983:LEU:HD13	15:M3:621:ARG:CZ	2.38	0.54
11:I2:1105:TRP:CD1	16:N3:436:ALA:HB2	2.43	0.54
11:I2:1284:GLU:OE1	11:I2:1284:GLU:N	2.38	0.54
11:I5:747:GLU:OE1	11:I5:747:GLU:N	2.38	0.54
21:S2:122:LYS:HG2	21:S2:141:GLU:OE2	2.07	0.54
23:U2:410:SER:HA	23:U2:436:LEU:HD11	1.89	0.54
23:U4:350:VAL:HG22	23:U4:355:LEU:HD22	1.89	0.54
23:U4:410:SER:HA	23:U4:436:LEU:HD11	1.88	0.54
24:V1:287:ASN:CA	31:c1:11:TYR:CE1	2.72	0.54
26:X2:188:MET:HB3	34:i:440:GLU:OE2	2.08	0.54
26:X4:60:LYS:C	26:X4:62:GLY:H	2.14	0.54
26:X4:328:LEU:O	26:X4:332:ILE:HG13	2.08	0.54
28:Z1:531:LYS:O	30:b1:183:LEU:N	2.41	0.54
28:Z3:443:LEU:CD2	30:b3:250:GLY:HA3	2.36	0.54
28:Z4:102:MET:HB3	28:Z4:107:THR:HG21	1.89	0.54
31:c3:699:LEU:HD12	31:c3:700:SER:O	2.07	0.54
1:A1:777:LEU:HD13	1:A1:822:ILE:HD11	1.90	0.54
2:A2:225:THR:O	6:D1:708:ASP:CB	2.55	0.54
2:A2:1114:ILE:HG23	3:A5:173:ASN:ND2	2.22	0.54
1:A3:1186:TRP:N	3:A6:639:ASN:O	2.41	0.54
1:A3:1264:ASN:O	3:A6:717:VAL:N	2.41	0.54
1:A3:1271:ILE:HG12	3:A6:553:ASP:N	2.22	0.54
2:A4:79:ALA:HB1	3:A6:321:ASP:CA	2.35	0.54
2:A4:235:TYR:HE1	4:B4:347:LEU:CD1	2.21	0.54
2:A4:550:VAL:HG23	3:A6:455:LEU:HD23	1.90	0.54
2:A4:707:THR:HG23	3:A6:401:GLY:HA3	1.90	0.54
2:A4:777:LEU:CD2	3:A6:526:ILE:CG1	2.85	0.54
2:A4:889:VAL:HG22	3:A6:174:PRO:CA	2.19	0.54
2:A4:900:THR:CA	3:A6:137:HIS:NE2	2.71	0.54
3:A5:233:THR:CA	5:C2:737:LYS:N	2.64	0.54
3:A5:1367:THR:C	28:Z2:845:ILE:N	2.65	0.54
6:D4:612:VAL:HG12	6:D4:628:LEU:HD13	1.88	0.54
6:D5:585:GLY:O	6:D5:631:LEU:HD11	2.07	0.54
6:D5:612:VAL:HG12	6:D5:628:LEU:HD13	1.88	0.54
8:F1:1205:TRP:CD1	17:O2:254:ARG:CG	2.90	0.54
11:I1:624:GLU:O	11:I1:627:ASN:ND2	2.40	0.54
11:I1:841:PHE:HB3	15:M1:588:MET:CA	2.36	0.54
11:I1:956:ILE:HG12	15:M1:599:ILE:CD1	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1546:TRP:CB	12:J2:300:ILE:CD1	2.68	0.54
11:I1:1664:PHE:C	11:I2:1664:PHE:O	2.47	0.54
11:I2:880:MET:HG3	17:O3:251:ILE:HG13	1.88	0.54
11:I2:1032:THR:O	16:N3:441:PHE:HZ	1.90	0.54
11:I2:1048:GLU:N	17:O3:284:LYS:HA	2.23	0.54
11:I2:1051:LYS:CE	17:O3:288:GLU:HB2	2.36	0.54
11:I3:816:ASP:CA	26:X1:498:SER:HB3	2.17	0.54
11:I5:1425:TYR:OH	11:I5:1482:ASP:OD2	2.23	0.54
23:U2:48:GLN:H	31:c4:472:GLU:CG	2.16	0.54
23:U2:79:GLU:HA	31:c4:553:LEU:HD11	1.89	0.54
23:U2:398:ILE:CG2	31:c4:531:TRP:C	2.65	0.54
23:U2:430:PRO:C	31:c4:461:PHE:HB2	2.29	0.54
23:U3:410:SER:HA	23:U3:436:LEU:HD11	1.89	0.54
24:V1:483:GLU:OE2	24:V1:514:ARG:NH2	2.35	0.54
25:W1:9:ASN:OD1	25:W1:12:ILE:HD11	2.08	0.54
26:X4:64:LYS:HB3	27:Y4:324:ASP:HB3	1.89	0.54
28:Z3:527:SER:OG	30:b3:210:ARG:CZ	2.56	0.54
29:a3:9:VAL:HG11	29:a3:372[A]:ILE:HD12	1.89	0.54
29:a3:358[A]:VAL:HG13	29:a3:363[A]:LEU:HD23	1.89	0.54
30:b1:264:ASP:OD1	30:b1:264:ASP:N	2.40	0.54
30:b4:242:LEU:HD13	30:b4:305:PRO:HG3	1.88	0.54
2:A2:909:LYS:NZ	6:D1:601:PHE:CD1	2.73	0.54
2:A2:970:PHE:CE1	6:D1:196:ILE:HD12	2.43	0.54
2:A2:1142:PHE:CD2	3:A5:128:HIS:O	2.60	0.54
1:A3:1098:ARG:NE	11:I2:1414:CYS:HB2	2.22	0.54
1:A3:1186:TRP:CH2	3:A6:583:LEU:HB2	2.37	0.54
1:A3:1186:TRP:CG	3:A6:641:ALA:H	2.25	0.54
1:A3:1277:TRP:HH2	3:A6:622:GLY:N	2.01	0.54
1:A3:1281:LEU:HB3	3:A6:625:LEU:CG	2.36	0.54
1:A3:1325:MET:CG	3:A6:126:ARG:HD3	2.35	0.54
2:A4:607:ARG:C	3:A6:103:ARG:NH1	2.66	0.54
2:A4:694:GLN:CD	3:A6:377:ASN:ND2	2.66	0.54
2:A4:824:ASN:O	3:A6:138:LEU:CB	2.55	0.54
2:A4:925:LYS:CD	3:A6:233:THR:CA	2.15	0.54
2:A4:975:GLU:O	6:D3:496:LEU:HB3	2.07	0.54
2:A4:1026:PRO:O	2:A4:1029:ILE:N	2.41	0.54
3:A5:999:SER:HB3	11:I5:64:LYS:HE3	1.90	0.54
3:A5:1055:ARG:HH12	11:I5:3:ASP:HA	1.73	0.54
3:A5:1395:LYS:N	28:Z2:874:ASN:N	2.54	0.54
9:G1:270:ARG:CD	16:N2:414:ALA:HA	2.32	0.54
11:I1:916:ALA:HB3	15:M1:586:ASP:HA	0.62	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:945:LEU:CB	17:O1:259:ASP:H	2.19	0.54
11:I1:992:ILE:N	15:M1:608:LYS:HG2	1.88	0.54
11:I1:1061:ASP:OD2	17:O1:278:GLU:CB	2.55	0.54
11:I3:717:GLU:OE1	11:I3:717:GLU:N	2.39	0.54
11:I4:1112:SER:CB	12:J4:241:THR:HB	2.37	0.54
11:I5:8:GLU:N	11:I5:8:GLU:OE1	2.39	0.54
11:I5:717:GLU:OE1	11:I5:717:GLU:N	2.39	0.54
23:U1:237:ILE:HD11	23:U1:240:HIS:HA	1.87	0.54
23:U1:401:PRO:HG3	31:c2:552:ARG:C	2.31	0.54
23:U2:34:ASP:HB3	23:U2:35:PRO:HD3	1.88	0.54
25:W4:236:GLN:HB2	25:W4:243:TRP:CE3	2.42	0.54
26:X2:70:LYS:HD2	27:Y2:15:VAL:O	2.07	0.54
26:X2:298:ASP:O	34:i:368[A]:CYS:SG	2.63	0.54
26:X2:365:ILE:CB	34:i:424:LEU:HB2	2.38	0.54
26:X2:369:GLU:HG2	34:i:428:LEU:HD23	1.06	0.54
26:X4:163:LYS:HB2	26:X4:172:PHE:CE1	2.41	0.54
27:Y1:128:LEU:HD23	27:Y1:169:PHE:HB3	1.89	0.54
28:Z1:245:ILE:HG21	28:Z1:311:LEU:HD23	1.88	0.54
29:a3:13:ILE:HG13	29:a3:372[B]:ILE:HD11	1.89	0.54
30:b3:21:TRP:CZ3	30:b3:366:HIS:HD2	2.24	0.54
31:c2:699:LEU:HD12	31:c2:700:SER:O	2.07	0.54
1:A1:1400:SER:OG	2:A2:885:LEU:HD22	2.07	0.54
2:A2:780:GLU:HB2	6:D1:677:GLN:HB3	1.82	0.54
2:A2:970:PHE:CG	6:D1:498:GLU:CD	2.82	0.54
2:A2:1136:LYS:CG	3:A5:138:LEU:C	2.81	0.54
1:A3:1091:VAL:HG21	6:D3:808:ASN:H	0.56	0.54
1:A3:1188:ASN:CG	3:A6:642:ARG:HG3	2.32	0.54
1:A3:1237:LEU:O	3:A6:597:GLU:HG2	2.07	0.54
2:A4:542:LEU:C	3:A6:364:HIS:N	2.61	0.54
2:A4:606:GLY:O	3:A6:506:SER:HB2	2.07	0.54
2:A4:682:ARG:HG2	3:A6:432:VAL:C	2.33	0.54
2:A4:692:VAL:CG2	3:A6:379:VAL:O	2.56	0.54
2:A4:706:PRO:CD	3:A6:463:ASP:O	2.52	0.54
2:A4:757:LEU:HG	3:A6:543:GLY:H	1.64	0.54
2:A4:802:TYR:HH	3:A6:467:LEU:N	2.06	0.54
2:A4:825:ARG:HA	3:A6:138:LEU:HB2	1.90	0.54
2:A4:876:ARG:CD	6:D3:565:MET:CG	2.51	0.54
2:A4:880:ALA:CB	6:D3:558:LYS:HD3	2.38	0.54
2:A4:1019:ARG:HH22	6:D3:238:ALA:N	2.00	0.54
3:A5:1310:ARG:HE	28:Z2:827:GLN:CA	2.20	0.54
6:D2:532:LEU:O	6:D2:536:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:N	15:M1:592:LEU:CB	2.27	0.54
11:I2:882:LYS:CA	17:O3:245:GLU:O	2.54	0.54
11:I2:900:ARG:HG3	17:O3:232:LYS:HD3	1.70	0.54
11:I2:936:LYS:CE	15:M3:612:PRO:CG	2.83	0.54
11:I2:950:LEU:CA	16:N3:406:HIS:HD2	2.21	0.54
11:I2:955:LYS:HB2	16:N3:400:LEU:CD2	2.30	0.54
11:I2:1038:ILE:HD13	15:M3:621:ARG:N	2.22	0.54
11:I3:1267:LEU:HD13	26:X1:497:ARG:HH11	1.64	0.54
11:I3:1271:GLU:OE1	26:X1:504:ILE:CB	2.50	0.54
21:S3:1012:LEU:HD13	21:S3:1034:LEU:HD22	1.90	0.54
22:T4:906:GLU:O	22:T4:910:MET:HE2	2.08	0.54
23:U2:45:ALA:HB3	31:c4:473:THR:OG1	2.07	0.54
23:U2:386:LEU:HD11	31:c4:541:ARG:NH1	2.08	0.54
23:U2:432:TYR:HD2	31:c4:539:ILE:HD13	1.72	0.54
24:V3:525:ASP:HA	24:V3:528:LEU:HD12	1.90	0.54
25:W3:236:GLN:HB2	25:W3:243:TRP:CE3	2.42	0.54
26:X2:204:PHE:CA	34:i:443:THR:HA	2.18	0.54
26:X3:186:ARG:HA	26:X3:190:PHE:HB2	1.90	0.54
28:Z2:527:SER:OG	30:b2:210:ARG:CZ	2.56	0.54
28:Z4:527:SER:OG	30:b4:210:ARG:CZ	2.56	0.54
28:Z4:560:ASN:ND2	30:b4:211:ILE:HG21	2.14	0.54
29:a1:358[A]:VAL:HG13	29:a1:363[A]:LEU:HD23	1.89	0.54
31:c2:541:ARG:HG2	31:c2:541:ARG:O	2.06	0.54
33:h:272:LEU:HD23	33:h:273:PHE:N	2.23	0.54
34:i:246:LEU:CD1	34:i:263:VAL:HG13	2.37	0.54
2:A2:908:LEU:HD21	6:D1:602:THR:H	1.72	0.54
2:A2:1142:PHE:HA	3:A5:128:HIS:O	1.59	0.54
1:A3:1169:LEU:CB	3:A6:590:SER:O	2.56	0.54
1:A3:1202:GLU:OE1	3:A6:87:GLN:O	2.25	0.54
1:A3:1236:GLN:OE1	3:A6:578:ILE:CB	2.55	0.54
2:A4:757:LEU:CD1	3:A6:543:GLY:C	2.73	0.54
2:A4:774:VAL:HG23	3:A6:469:PHE:HE2	1.73	0.54
2:A4:781:ARG:NH1	3:A6:522:GLY:CA	2.71	0.54
2:A4:808:GLN:NE2	3:A6:328:TYR:HD2	2.04	0.54
2:A4:820:LYS:HZ1	3:A6:166:LEU:HA	1.72	0.54
2:A4:942:ASN:OD1	4:B6:355:PRO:O	2.25	0.54
3:A5:159:SER:CA	5:C2:742:ASP:O	2.56	0.54
3:A5:160:ILE:CA	5:C2:744:PHE:HA	2.36	0.54
3:A5:1029:ILE:CG2	11:I5:70:GLU:H	1.83	0.54
3:A5:1091:VAL:C	11:I5:37:GLU:N	2.66	0.54
3:A6:443:ILE:CD1	6:D3:695:LEU:HD11	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1375:THR:CG2	28:Z4:826:TYR:HA	2.38	0.54
6:D1:532:LEU:O	6:D1:536:THR:HG23	2.08	0.54
9:G1:263:MET:HB3	17:O2:260:LEU:CD1	2.38	0.54
11:I1:874:LEU:HG	17:O1:252:VAL:O	2.08	0.54
11:I1:876:ALA:O	17:O1:248:SER:CA	2.55	0.54
11:I1:887:GLN:CB	16:N1:393:ILE:CD1	2.67	0.54
11:I1:895:ARG:NH2	17:O1:233:THR:CG2	2.70	0.54
11:I1:900:ARG:HG2	17:O1:232:LYS:HZ3	1.66	0.54
11:I1:938:CYS:HA	15:M1:606:LEU:CD1	2.36	0.54
11:I1:990:GLU:CG	17:O1:275:LEU:HB3	2.37	0.54
11:I1:1108:PRO:HG2	16:N1:441:PHE:C	2.32	0.54
11:I1:1607:GLN:NE2	11:I2:1736:LEU:CD1	2.42	0.54
11:I2:948:ALA:CB	17:O3:256:TYR:CA	2.86	0.54
11:I2:1050:SER:O	17:O3:290:TYR:HB2	2.07	0.54
11:I2:1116:ASP:OD1	12:J2:241:THR:CG2	2.56	0.54
11:I5:624:GLU:O	11:I5:627:ASN:ND2	2.40	0.54
21:S1:176:MET:HE1	21:S1:232:LEU:HD13	1.89	0.54
21:S1:1012:LEU:HD13	21:S1:1034:LEU:HD22	1.90	0.54
21:S1:1028:ALA:HB3	21:S1:1029:PRO:HD3	1.89	0.54
21:S4:1083:TRP:HA	21:S4:1083:TRP:HE3	1.73	0.54
23:U1:139:VAL:HG21	31:c1:635:SER:HG	1.68	0.54
23:U1:341:HIS:CE1	23:U1:343:ILE:HD12	2.43	0.54
23:U1:401:PRO:CB	31:c2:554:LEU:CB	2.86	0.54
23:U1:440:ASP:CA	31:c2:463:HIS:CD2	2.83	0.54
23:U2:25:GLU:CG	31:c4:486:VAL:HG13	2.37	0.54
23:U2:38:ILE:HG13	31:c4:559:ILE:CA	2.38	0.54
23:U4:155:SER:HA	24:V4:351:ILE:HA	1.88	0.54
26:X2:198:GLU:CD	34:i:364:TYR:O	2.50	0.54
26:X2:315:GLN:CB	34:i:399:PRO:C	2.77	0.54
28:Z4:531:LYS:O	30:b4:183:LEU:N	2.41	0.54
1:A1:1224:PRO:CA	2:A2:727:ASN:HB2	1.99	0.54
1:A1:1332:ARG:NH2	6:D1:685:VAL:CB	2.59	0.54
1:A3:1086:LYS:HG2	6:D3:798:MET:C	2.32	0.54
1:A3:1166:LEU:CA	3:A6:595:GLU:N	2.67	0.54
1:A3:1333:ARG:CA	6:D3:637:LYS:HD3	2.38	0.54
1:A3:1389:SER:HB2	3:A6:230:LYS:HD3	1.90	0.54
2:A4:889:VAL:HG22	3:A6:175:GLU:H	1.72	0.54
2:A4:965:LYS:CE	6:D3:196:ILE:C	2.80	0.54
3:A5:232:LEU:CD2	5:C2:738:ASP:C	2.74	0.54
3:A5:996:ASN:CG	11:I5:55:ASP:O	2.50	0.54
3:A5:1053:ARG:CZ	11:I5:99:ARG:HG3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:518:GLU:CG	6:D3:690:TYR:CE2	2.89	0.54
6:D5:532:LEU:O	6:D5:536:THR:HG23	2.08	0.54
6:D6:728:GLU:CD	22:T3:773:LYS:O	2.51	0.54
8:F2:1491:ARG:NE	9:G2:282:ASN:OD1	2.41	0.54
9:G1:255:LEU:HD12	17:O2:257:ALA:CA	2.38	0.54
11:I1:980:ILE:CG1	15:M1:621:ARG:CB	2.68	0.54
11:I1:1045:PHE:CE1	16:N1:431:VAL:O	2.58	0.54
11:I2:847:THR:HG23	15:M3:594:LYS:HZ3	1.70	0.54
11:I2:1033:PRO:C	20:R3:177:LEU:HG	2.33	0.54
11:I2:1038:ILE:HD13	15:M3:621:ARG:H	1.72	0.54
11:I3:624:GLU:O	11:I3:627:ASN:ND2	2.40	0.54
11:I3:1275:SER:CB	26:X1:522:MET:HG2	2.28	0.54
11:I4:1425:TYR:OH	11:I4:1482:ASP:OD2	2.23	0.54
17:O3:154:ARG:HD3	18:P3:324:LEU:CD1	2.36	0.54
23:U1:24:ILE:CA	31:c2:563:ARG:CD	2.83	0.54
23:U3:279:TYR:HD1	25:W4:189:SER:CB	2.10	0.54
23:U4:341:HIS:CE1	23:U4:343:ILE:HD12	2.43	0.54
25:W2:9:ASN:OD1	25:W2:12:ILE:HD11	2.08	0.54
25:W2:212:TRP:HA	25:W2:222:LEU:HD23	1.90	0.54
25:W3:95:HIS:CE1	25:W3:97:VAL:HG22	2.42	0.54
26:X1:328:LEU:O	26:X1:332:ILE:HG13	2.08	0.54
26:X2:195:GLN:HB3	34:i:364:TYR:CZ	2.37	0.54
26:X2:204:PHE:CA	34:i:443:THR:O	2.50	0.54
26:X2:293:LYS:HB2	34:i:452:ILE:CG2	2.38	0.54
26:X2:301:SER:H	34:i:333:LEU:C	2.15	0.54
26:X3:280:VAL:HG21	26:X3:321:ALA:HB3	1.89	0.54
28:Z2:533:LEU:HB2	30:b2:164:CYS:SG	2.48	0.54
28:Z4:125:ASP:OD1	28:Z4:127:SER:OG	2.17	0.54
30:b2:11:PRO:HB2	30:b2:14:VAL:HG23	1.90	0.54
2:A2:1126:VAL:HG13	3:A5:139:ASN:HD21	1.73	0.54
1:A3:1161:ALA:O	3:A6:648:TYR:C	2.50	0.54
1:A3:1225:PRO:CD	3:A6:548:LEU:CD2	2.65	0.54
2:A4:552:PHE:HE1	3:A6:109:ASP:CG	2.13	0.54
2:A4:608:VAL:HG13	3:A6:100:SER:HA	1.89	0.54
2:A4:703:SER:CA	3:A6:465:SER:O	2.56	0.54
2:A4:769:GLU:CB	3:A6:528:ILE:HG21	2.37	0.54
2:A4:946:LYS:CB	4:B6:348:PRO:HG2	2.30	0.54
3:A6:1398:LYS:HB3	28:Z4:920:SER:N	2.23	0.54
6:D4:532:LEU:O	6:D4:536:THR:HG23	2.08	0.54
6:D6:800:PRO:HG2	22:T3:765:LYS:CG	2.26	0.54
9:G2:256:GLN:HG2	17:O4:262:ASP:CG	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:946:THR:OG1	17:O1:260:LEU:CG	2.35	0.54
11:I1:955:LYS:CE	16:N1:396:ILE:O	2.42	0.54
11:I1:965:ALA:N	20:R1:165:SER:HB3	2.18	0.54
11:I1:1055:GLU:HA	17:O1:281:ALA:N	2.15	0.54
11:I1:1061:ASP:CB	17:O1:279:ILE:HD12	2.38	0.54
11:I1:1610:VAL:HG12	11:I2:1669:ARG:NH2	2.23	0.54
11:I2:846:ILE:CG2	17:O3:247:TRP:HH2	2.11	0.54
11:I2:847:THR:HG23	15:M3:594:LYS:CE	2.38	0.54
11:I2:873:ILE:C	17:O3:255:GLY:N	2.66	0.54
11:I3:1270:LYS:HE2	26:X1:530:ARG:CD	2.36	0.54
11:I3:1271:GLU:OE2	26:X1:529:TRP:CD2	2.54	0.54
11:I4:819:MET:HB3	26:X3:501:LYS:NZ	2.18	0.54
11:I5:1235:THR:OG1	29:a2:22:PRO:HG3	2.08	0.54
22:T1:853:CYS:O	22:T1:857:LEU:HG	2.08	0.54
23:U2:24:ILE:CG1	31:c4:482:LEU:C	2.81	0.54
23:U2:26:GLN:C	31:c4:491:VAL:N	2.66	0.54
23:U3:222:VAL:HG12	24:V3:256:VAL:HA	1.90	0.54
23:U4:222:VAL:HG12	24:V4:256:VAL:HA	1.90	0.54
24:V4:178:THR:HG21	24:V4:485:ALA:HB2	1.90	0.54
24:V4:520:ARG:NH2	24:V4:542:GLN:HE21	2.06	0.54
25:W1:95:HIS:CE1	25:W1:97:VAL:HG22	2.42	0.54
25:W1:212:TRP:HA	25:W1:222:LEU:HD23	1.90	0.54
26:X1:70:LYS:HD2	27:Y1:15:VAL:O	2.07	0.54
26:X2:192:LEU:CD1	34:i:442:SER:CB	2.84	0.54
26:X2:287:ASP:HB2	34:i:480[A]:MET:HB2	1.89	0.54
26:X4:280:VAL:HG21	26:X4:321:ALA:HB3	1.89	0.54
28:Z1:525:LEU:O	30:b1:208:ASN:ND2	2.25	0.54
28:Z1:526:ARG:HB3	30:b1:206:ASN:HB2	1.80	0.54
35:j:761:GLU:O	35:j:800:ARG:NH2	2.36	0.54
1:A1:874:VAL:CG1	6:D3:272:VAL:CA	2.85	0.53
2:A2:779:ASP:OD2	6:D1:679:ILE:O	2.25	0.53
2:A2:827:ILE:O	2:A2:863:GLN:HB2	0.72	0.53
2:A2:1150:LEU:HD11	5:C2:731:LYS:CG	2.38	0.53
1:A3:1114:ILE:O	3:A6:592:ASP:CB	2.56	0.53
1:A3:1182:ILE:HB	3:A6:639:ASN:ND2	2.23	0.53
1:A3:1201:ARG:HB2	2:A4:735:ALA:CB	2.37	0.53
1:A3:1234:GLN:HA	3:A6:601:PHE:CZ	2.43	0.53
1:A3:1321:MET:CE	3:A6:126:ARG:HH12	2.19	0.53
2:A4:86:ASN:ND2	3:A6:393:HIS:C	2.66	0.53
2:A4:678:LEU:CD2	3:A6:431:PHE:HB2	2.38	0.53
2:A4:760:LEU:HD11	3:A6:98:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:771:ILE:C	3:A6:477:PHE:HB3	2.11	0.53
2:A4:800:LEU:O	3:A6:316:ARG:NH2	2.40	0.53
2:A4:824:ASN:ND2	3:A6:167:TRP:HZ3	2.07	0.53
2:A4:853:VAL:CA	3:A6:128:HIS:HB3	2.37	0.53
2:A4:908:LEU:HA	6:D3:552:TYR:HE1	0.49	0.53
2:A4:975:GLU:CA	6:D3:501:LEU:HD12	2.30	0.53
6:D3:532:LEU:O	6:D3:536:THR:HG23	2.08	0.53
6:D5:237:PRO:HG2	31:c3:476:PRO:CD	2.38	0.53
8:F1:982:PRO:CG	11:I1:1388:GLU:HG2	2.38	0.53
9:G1:257:THR:CA	17:O2:253:LEU:N	2.36	0.53
11:I1:465:GLU:N	11:I1:465:GLU:OE1	2.38	0.53
11:I1:899:LEU:CD2	17:O1:231:ASP:OD1	2.49	0.53
11:I1:938:CYS:CB	15:M1:606:LEU:O	2.56	0.53
11:I1:1111:ALA:HB2	16:N1:439:ARG:HH11	1.72	0.53
11:I1:1662:ARG:CB	11:I2:1603:ARG:HH12	2.20	0.53
11:I1:1668:HIS:CB	11:I2:1668:HIS:C	2.79	0.53
11:I2:881:ILE:CG1	17:O3:250:LEU:HA	2.26	0.53
11:I2:886:LEU:HB2	17:O3:242:ARG:HA	1.90	0.53
11:I2:966:TRP:H	20:R3:154:ALA:HB2	1.71	0.53
11:I3:408:PRO:O	11:I3:409:SER:OG	2.16	0.53
11:I3:1284:GLU:N	11:I3:1284:GLU:OE1	2.38	0.53
17:O3:151:LEU:CG	18:P3:325:ILE:HG12	2.11	0.53
21:S2:1001:PHE:CD2	21:S2:1001:PHE:C	2.86	0.53
22:T1:781:THR:HG23	22:T1:783:THR:H	1.73	0.53
22:T3:853:CYS:O	22:T3:857:LEU:HG	2.09	0.53
23:U2:20:LYS:CG	31:c4:480:CYS:HB2	2.39	0.53
23:U2:82:LEU:CB	31:c4:557:HIS:CD2	2.91	0.53
24:V1:525:ASP:HA	24:V1:528:LEU:HD12	1.90	0.53
24:V2:345:SER:HB3	24:V2:371:PHE:CE2	2.43	0.53
24:V2:483:GLU:OE2	24:V2:514:ARG:NH2	2.35	0.53
24:V3:548:TYR:HB2	25:W3:64:PRO:HB3	1.90	0.53
25:W3:9:ASN:OD1	25:W3:12:ILE:HD11	2.08	0.53
26:X1:186:ARG:HA	26:X1:190:PHE:HB2	1.90	0.53
27:Y4:128:LEU:HD23	27:Y4:169:PHE:HB3	1.89	0.53
28:Z2:532:PHE:H	30:b2:184:SER:HA	1.73	0.53
28:Z2:639:LEU:HD23	30:b2:232:PRO:HG3	1.88	0.53
30:b2:237:LEU:HD13	30:b2:280:TRP:CE2	2.44	0.53
31:c1:541:ARG:HG2	31:c1:541:ARG:O	2.06	0.53
31:c3:357:MET:HE1	31:c3:514:CYS:O	2.07	0.53
1:A1:1221:ILE:CG2	2:A2:645:PHE:N	2.18	0.53
2:A2:781:ARG:NE	6:D1:673:ARG:HH12	1.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1126:VAL:HG13	3:A5:139:ASN:ND2	2.23	0.53
1:A3:1056:PHE:HZ	6:D3:811:LEU:N	1.91	0.53
1:A3:1240:HIS:HD2	6:D3:736:ASN:HD22	1.56	0.53
2:A4:86:ASN:HB3	3:A6:393:HIS:HB2	1.86	0.53
2:A4:718:GLU:OE1	3:A6:491:VAL:CG1	2.53	0.53
2:A4:757:LEU:HG	3:A6:541:PRO:O	2.08	0.53
2:A4:852:ASP:CA	3:A6:154:GLY:O	2.54	0.53
2:A4:867:GLU:HB2	6:D3:605:THR:CB	2.35	0.53
2:A4:1023:ILE:O	2:A4:1024:ASP:HB3	2.09	0.53
3:A5:1051:THR:HB	11:I5:40:ASP:OD2	2.07	0.53
3:A5:1376:LEU:O	28:Z2:815:PHE:CB	2.56	0.53
3:A5:1392:ARG:HG3	28:Z2:867:LYS:CA	2.37	0.53
5:C1:732:LYS:NZ	11:I1:1225:LYS:CG	2.69	0.53
6:D5:237:PRO:HD2	31:c3:476:PRO:HD2	1.88	0.53
8:F1:1165:VAL:HG12	8:F1:1166:GLY:N	2.23	0.53
8:F1:1263:MET:O	8:F1:1267:ARG:N	2.41	0.53
8:F2:1263:MET:O	8:F2:1267:ARG:N	2.41	0.53
11:I1:920:PHE:CD2	15:M1:592:LEU:HD12	2.43	0.53
11:I1:934:LEU:CB	15:M1:602:MET:HE3	2.35	0.53
11:I1:965:ALA:HB1	20:R1:164:PRO:HA	1.91	0.53
11:I1:1013:GLU:HA	16:N1:411:GLN:NE2	2.23	0.53
11:I1:1668:HIS:C	11:I2:1668:HIS:CB	2.81	0.53
11:I2:840:LEU:HD21	17:O3:247:TRP:HB2	1.90	0.53
11:I2:890:TYR:CB	17:O3:242:ARG:CG	2.85	0.53
11:I2:890:TYR:CG	17:O3:238:ALA:O	2.60	0.53
11:I2:895:ARG:HD3	17:O3:234:LEU:HD13	1.86	0.53
11:I2:914:ASN:O	15:M3:588:MET:CB	2.55	0.53
11:I2:957:SER:CA	20:R3:168:LEU:N	2.71	0.53
11:I2:989:GLY:CA	15:M3:614:ASP:HB3	2.30	0.53
17:O4:111:TYR:N	18:P1:278:ASN:HD22	2.06	0.53
21:S1:654:LYS:C	21:S2:1156:ILE:C	2.71	0.53
21:S1:677:TYR:HA	21:S2:1128:ALA:HB3	1.90	0.53
21:S2:1083:TRP:HA	21:S2:1083:TRP:HE3	1.73	0.53
23:U1:222:VAL:HG12	24:V1:256:VAL:HA	1.90	0.53
23:U2:21:GLU:N	31:c4:480:CYS:SG	2.76	0.53
23:U2:22:PHE:HA	31:c4:562:LEU:HB3	1.89	0.53
23:U2:428:ASN:HA	31:c4:464:LEU:O	2.07	0.53
26:X2:368:LEU:HA	34:i:441:LEU:CG	2.21	0.53
26:X2:369:GLU:CG	34:i:428:LEU:HD22	1.35	0.53
28:Z2:526:ARG:O	30:b2:206:ASN:CG	2.37	0.53
28:Z2:526:ARG:HA	30:b2:206:ASN:ND2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:CB	3:A5:176:LEU:HB3	2.37	0.53
2:A4:735:ALA:CA	3:A6:92:ASP:HB3	2.39	0.53
2:A4:824:ASN:HB2	3:A6:158:ALA:HB2	1.90	0.53
2:A4:828:ALA:CB	3:A6:138:LEU:HB2	2.39	0.53
2:A4:888:GLN:HE21	3:A6:171:HIS:CE1	2.25	0.53
2:A4:897:ASN:O	3:A6:176:LEU:HB2	2.07	0.53
3:A5:993:ASN:C	11:I5:57:GLU:CB	2.74	0.53
8:F1:1137:GLN:CG	17:O2:248:SER:C	2.38	0.53
8:F2:1089:PRO:O	17:O4:245:GLU:C	2.51	0.53
9:G1:252:LEU:HB3	17:O2:254:ARG:NH2	2.22	0.53
11:I1:841:PHE:CB	15:M1:588:MET:CB	2.72	0.53
11:I1:922:ASP:O	15:M1:593:ALA:CA	2.48	0.53
11:I3:460:GLN:OE1	11:I3:460:GLN:N	2.39	0.53
11:I3:1276:GLN:O	26:X1:522:MET:SD	2.66	0.53
11:I4:1116:ASP:OD1	12:J4:241:THR:CG2	2.56	0.53
21:S2:176:MET:CE	21:S2:232:LEU:CD1	2.85	0.53
22:T1:752:ALA:HB2	31:c5:58:ARG:HD3	1.71	0.53
22:T1:816:LYS:HE2	31:c5:85:ARG:HH22	1.63	0.53
22:T4:853:CYS:O	22:T4:857:LEU:HG	2.08	0.53
23:U1:18:THR:C	31:c2:472:GLU:H	2.13	0.53
23:U2:399:ILE:HD11	31:c4:553:LEU:O	2.06	0.53
23:U2:415:THR:OG1	31:c4:541:ARG:NE	2.42	0.53
23:U3:350:VAL:HG22	23:U3:355:LEU:HD22	1.90	0.53
25:W4:9:ASN:OD1	25:W4:12:ILE:HD11	2.08	0.53
26:X2:302:THR:N	34:i:335:HIS:NE2	2.56	0.53
26:X2:321:ALA:HB2	34:i:84:ARG:HG2	1.82	0.53
28:Z1:527:SER:OG	30:b1:210:ARG:CZ	2.56	0.53
28:Z1:534:ASP:CB	30:b1:183:LEU:N	2.33	0.53
28:Z3:539:GLU:CB	30:b3:164:CYS:C	2.79	0.53
30:b3:264:ASP:OD1	30:b3:264:ASP:N	2.40	0.53
32:g:93:PHE:HB3	32:g:94:PRO:HD2	1.90	0.53
1:A1:1396:GLY:CA	2:A2:888:GLN:HB2	2.03	0.53
2:A2:1131:ILE:O	3:A5:141:GLY:N	2.41	0.53
2:A2:1157:TYR:CG	3:A5:131:PRO:HB2	1.69	0.53
1:A3:1021:LEU:HD22	6:D3:816:VAL:CB	2.39	0.53
1:A3:1274:ASP:CA	3:A6:556:PRO:C	2.72	0.53
1:A3:1281:LEU:CD1	3:A6:577:ASP:C	2.81	0.53
2:A4:87:GLN:CD	3:A6:390:SER:O	2.50	0.53
2:A4:713:ILE:H	3:A6:462:LEU:CD2	2.21	0.53
2:A4:713:ILE:HD12	3:A6:462:LEU:CD1	2.36	0.53
2:A4:720:LEU:CG	3:A6:495:ASP:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:823:VAL:HB	3:A6:167:TRP:CZ2	2.42	0.53
2:A4:870:HIS:CD2	6:D3:566:PHE:CD1	2.96	0.53
2:A4:946:LYS:HG3	4:B6:350:GLU:OE2	2.09	0.53
3:A5:1391:ARG:NH2	28:Z2:868:GLN:O	2.42	0.53
11:I1:460:GLN:OE1	11:I1:460:GLN:N	2.39	0.53
11:I1:895:ARG:CZ	17:O1:233:THR:CG2	2.85	0.53
11:I1:920:PHE:N	15:M1:592:LEU:CD2	2.72	0.53
11:I1:924:ILE:O	15:M1:597:LYS:CB	2.56	0.53
11:I1:1021:ILE:CA	16:N1:406:HIS:O	2.52	0.53
11:I1:1027:ALA:O	20:R1:172:ASP:O	2.27	0.53
11:I1:1041:GLN:HB3	15:M1:620:VAL:CB	2.25	0.53
11:I2:624:GLU:O	11:I2:627:ASN:ND2	2.40	0.53
11:I2:887:GLN:HE22	16:N3:396:ILE:CG1	2.20	0.53
11:I2:890:TYR:HB2	17:O3:242:ARG:CG	2.37	0.53
11:I2:945:LEU:CB	17:O3:260:LEU:H	2.21	0.53
11:I2:1052:LEU:HD21	16:N3:434:LEU:CD1	2.34	0.53
17:O3:151:LEU:HD11	18:P3:321:ILE:O	2.08	0.53
19:Q3:208:GLY:HA3	19:Q3:210:TRP:CZ3	2.43	0.53
21:S4:1028:ALA:HB3	21:S4:1029:PRO:HD3	1.89	0.53
23:U1:172:LYS:CE	31:c1:506:HIS:C	2.81	0.53
23:U1:198:GLU:CG	31:c1:622:ILE:CG1	2.86	0.53
23:U2:391:HIS:CB	31:c4:476:PRO:O	2.53	0.53
23:U2:398:ILE:CD1	31:c4:531:TRP:CE2	2.76	0.53
23:U2:431:ILE:HG21	31:c4:481:ILE:N	2.24	0.53
24:V4:186:PHE:HD1	24:V4:487:LEU:HD11	1.74	0.53
26:X1:401:LYS:CB	37:k2:450:HIS:ND1	2.71	0.53
26:X2:311:LEU:C	34:i:398:ASP:OD1	2.51	0.53
26:X3:64:LYS:HB3	27:Y3:324:ASP:HB3	1.90	0.53
26:X4:186:ARG:HA	26:X4:190:PHE:HB2	1.90	0.53
27:Y4:41:ASP:HA	29:a4:231[B]:HIS:NE2	2.17	0.53
28:Z1:556:ASN:OD1	30:b1:200:LEU:HD11	2.08	0.53
28:Z4:533:LEU:HB2	30:b4:164:CYS:SG	2.49	0.53
30:b1:237:LEU:HD13	30:b1:280:TRP:CE2	2.44	0.53
1:A1:1224:PRO:HB3	2:A2:731:ILE:HD13	1.84	0.53
1:A1:1226:LEU:HB2	2:A2:725:GLU:HG3	1.90	0.53
2:A2:1026:PRO:O	2:A2:1029:ILE:N	2.41	0.53
2:A4:543:GLY:CA	3:A6:365:MET:HG3	2.39	0.53
2:A4:728:LYS:HG3	3:A6:682:ARG:NH1	2.23	0.53
2:A4:867:GLU:CB	6:D3:605:THR:CB	2.86	0.53
2:A4:934:TRP:CZ2	4:B6:350:GLU:HG2	2.34	0.53
3:A5:1026:PRO:HG3	11:I5:102:ILE:CD1	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:777:LEU:HD13	3:A6:822:ILE:HD11	1.89	0.53
6:D6:440:PHE:O	6:D6:444:LEU:HD13	2.08	0.53
9:G1:263:MET:CE	16:N2:407:ALA:O	2.56	0.53
11:I1:884:LEU:HD11	16:N1:400:LEU:HD11	1.88	0.53
11:I1:950:LEU:HB2	16:N1:403:VAL:O	2.08	0.53
11:I1:1116:ASP:OD1	12:J1:241:THR:CG2	2.56	0.53
11:I2:981:VAL:HG12	20:R3:147:LEU:HG	1.90	0.53
11:I2:983:LEU:C	15:M3:613:ASP:CA	2.81	0.53
11:I2:990:GLU:HB3	17:O3:272:SER:CB	2.37	0.53
11:I2:1041:GLN:NE2	15:M3:617:THR:CG2	2.58	0.53
11:I2:1067:PHE:CG	16:N3:429:GLU:C	2.86	0.53
11:I5:77:GLU:OE1	11:I5:77:GLU:N	2.38	0.53
18:P1:276:SER:HA	18:P4:319:VAL:HG12	1.90	0.53
21:S1:669:LEU:N	21:S2:1146:ALA:O	2.42	0.53
21:S2:969:THR:HA	22:T2:879:ASP:OD1	2.09	0.53
23:U1:16:SER:HB3	31:c2:470:ARG:NE	1.94	0.53
23:U2:437:ASN:C	31:c4:428:ARG:NE	2.65	0.53
24:V2:520:ARG:NH2	24:V2:542:GLN:HE21	2.06	0.53
24:V3:178:THR:HG21	24:V3:485:ALA:HB2	1.90	0.53
24:V4:548:TYR:HB2	25:W4:64:PRO:HB3	1.90	0.53
25:W2:178:ALA:HB1	25:W2:206:TRP:CE2	2.44	0.53
25:W3:154:ALA:HB2	25:W3:212:TRP:CE3	2.44	0.53
25:W3:275:ASP:N	25:W3:275:ASP:OD1	2.42	0.53
28:Z2:521:SER:OG	30:b2:238:ASN:HB3	2.08	0.53
28:Z2:534:ASP:OD2	30:b2:183:LEU:CA	2.53	0.53
28:Z3:438:GLU:CG	30:b3:333:HIS:HE1	2.16	0.53
28:Z4:526:ARG:CB	30:b4:206:ASN:C	2.82	0.53
30:b3:237:LEU:HD13	30:b3:280:TRP:CE2	2.44	0.53
30:b4:237:LEU:HD13	30:b4:280:TRP:CE2	2.44	0.53
32:g:14:MET:HE3	32:g:341:TRP:CE2	2.43	0.53
2:A2:225:THR:H	6:D1:709:ARG:NE	2.03	0.53
2:A2:978:ASP:O	6:D1:476:VAL:N	2.36	0.53
2:A2:1142:PHE:HD1	3:A5:130:ILE:CG1	2.21	0.53
1:A3:1224:PRO:CD	2:A4:734:LEU:HD22	2.39	0.53
1:A3:1233:GLN:C	3:A6:578:ILE:HG22	2.34	0.53
2:A4:615:LEU:HD23	3:A6:509:LYS:C	2.32	0.53
2:A4:635:ARG:HH22	3:A6:601:PHE:C	2.17	0.53
2:A4:769:GLU:CB	3:A6:471:PHE:HE2	2.11	0.53
2:A4:973:GLU:OE1	6:D3:192:TYR:CD2	2.61	0.53
2:A4:1094:ILE:CG1	6:D4:759:GLN:NE2	2.63	0.53
3:A5:785:ILE:HD11	3:A5:825:ARG:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1024:ASP:CA	11:I5:98:ALA:HB3	2.38	0.53
8:F1:1202:TYR:HB3	17:O2:252:VAL:CG2	2.23	0.53
8:F2:1165:VAL:HG12	8:F2:1166:GLY:N	2.23	0.53
9:G1:255:LEU:CD1	17:O2:258:GLU:N	2.71	0.53
11:I1:1043:LEU:HA	16:N1:430:ARG:CD	2.38	0.53
11:I1:1059:PRO:CA	17:O1:277:GLU:OE2	2.57	0.53
11:I2:895:ARG:CD	17:O3:234:LEU:HD13	2.38	0.53
11:I2:1040:HIS:N	20:R3:170:LEU:CD2	2.60	0.53
11:I2:1058:GLY:N	17:O3:277:GLU:O	2.41	0.53
11:I5:1116:ASP:OD1	12:J5:241:THR:CG2	2.56	0.53
21:S3:882:GLN:C	21:S3:884:ARG:H	2.15	0.53
21:S3:1052:LEU:HD21	21:S3:1073:ILE:CD1	2.32	0.53
22:T2:906:GLU:O	22:T2:910:MET:HE2	2.08	0.53
23:U1:176:GLU:OE2	31:c1:504:ASN:C	2.44	0.53
23:U2:42:PHE:CE1	31:c4:479:ILE:N	2.74	0.53
23:U2:79:GLU:CA	31:c4:553:LEU:HD11	2.38	0.53
23:U2:359:ILE:CG2	31:c4:544:VAL:C	2.81	0.53
23:U2:398:ILE:HD12	31:c4:555:VAL:CG2	2.38	0.53
24:V1:339:LEU:CD1	31:c1:627:ASP:CB	2.85	0.53
24:V3:520:ARG:NH2	24:V3:542:GLN:HE21	2.06	0.53
26:X2:298:ASP:N	34:i:369:VAL:CG2	2.45	0.53
28:Z3:527:SER:HA	30:b3:204:GLU:OE1	1.50	0.53
28:Z4:443:LEU:CD2	30:b4:250:GLY:HA3	2.36	0.53
31:c1:19:THR:HB	31:c1:24:GLN:HG2	1.91	0.53
31:c2:19:THR:HB	31:c2:24:GLN:HG2	1.91	0.53
31:c2:464:LEU:HD12	31:c2:465:PRO:HD2	1.91	0.53
2:A2:874:VAL:HG12	6:D1:608:ILE:HA	1.90	0.53
2:A2:1305:ALA:HB1	2:A2:1306:PRO:CD	2.36	0.53
1:A3:1083:SER:O	6:D3:797:GLY:C	2.51	0.53
1:A3:1220:PRO:HA	3:A6:501:VAL:CA	2.15	0.53
1:A3:1224:PRO:C	3:A6:548:LEU:CD1	2.82	0.53
1:A3:1270:SER:HB2	3:A6:686:THR:HG21	1.91	0.53
1:A3:1306:PRO:HB2	3:A6:715:GLU:CD	2.33	0.53
2:A4:553:ASP:CG	3:A6:434:PHE:N	2.62	0.53
2:A4:691:LYS:CG	3:A6:378:ILE:O	2.52	0.53
2:A4:705:ILE:HB	3:A6:482:LYS:CB	2.39	0.53
2:A4:723:PHE:CD2	3:A6:497:GLY:N	2.77	0.53
2:A4:753:GLU:HG2	3:A6:94:SER:HA	1.90	0.53
2:A4:753:GLU:HA	3:A6:542:LEU:H	1.68	0.53
2:A4:763:LEU:O	3:A6:470:ARG:HG2	2.08	0.53
2:A4:852:ASP:CG	3:A6:155:TYR:CA	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:895:PRO:HB2	3:A6:179:TYR:HB2	0.71	0.53
2:A4:983:LEU:HD13	6:D3:497:PHE:HE2	1.68	0.53
2:A4:985:ALA:HB2	6:D3:496:LEU:C	2.33	0.53
2:A4:988:ARG:CZ	6:D3:498:GLU:O	2.57	0.53
3:A5:919:LEU:CB	11:I5:61:LYS:HZ1	2.21	0.53
3:A5:998:SER:C	11:I5:63:PRO:CD	2.81	0.53
3:A5:1001:GLU:HG2	11:I5:65:LYS:HB2	1.91	0.53
3:A5:1312:ARG:NH2	28:Z2:838:GLN:CA	2.60	0.53
3:A6:1367:THR:O	28:Z4:871:HIS:O	2.27	0.53
6:D2:440:PHE:O	6:D2:444:LEU:HD13	2.08	0.53
6:D5:440:PHE:O	6:D5:444:LEU:HD13	2.08	0.53
9:G1:255:LEU:CD1	17:O2:253:LEU:O	2.57	0.53
9:G1:258:LYS:HE3	16:N2:408:MET:HE3	1.90	0.53
9:G1:262:SER:O	16:N2:411:GLN:HG2	2.06	0.53
11:I1:895:ARG:HG2	17:O1:232:LYS:C	2.32	0.53
11:I1:934:LEU:HD12	15:M1:599:ILE:C	2.31	0.53
11:I1:1036:PRO:HD2	15:M1:623:LEU:O	2.07	0.53
11:I2:797:LEU:CD1	17:O3:244:GLU:C	2.80	0.53
11:I2:887:GLN:NE2	16:N3:396:ILE:CB	2.64	0.53
11:I2:899:LEU:O	17:O3:232:LYS:HG2	2.02	0.53
11:I2:958:THR:CB	16:N3:399:HIS:HD2	2.11	0.53
11:I2:1114:VAL:CG1	16:N3:432:TYR:CD2	2.92	0.53
11:I3:8:GLU:N	11:I3:8:GLU:OE1	2.39	0.53
11:I4:465:GLU:OE1	11:I4:465:GLU:N	2.38	0.53
21:S2:1012:LEU:HD13	21:S2:1034:LEU:HD22	1.90	0.53
21:S3:245:LEU:HD22	21:S3:304:GLU:CD	2.34	0.53
21:S3:684:THR:N	21:S4:1150:TYR:H	1.86	0.53
21:S4:969:THR:HA	22:T4:879:ASP:OD1	2.09	0.53
23:U2:409:LYS:HG3	31:c4:542:LYS:C	2.34	0.53
23:U2:413:ILE:CG1	31:c4:538:LEU:O	2.57	0.53
23:U2:442:LEU:HD13	31:c4:462:HIS:HB2	1.91	0.53
23:U3:206:ILE:HG23	24:V3:336:LEU:HB3	1.91	0.53
24:V3:345:SER:HB3	24:V3:371:PHE:CE2	2.43	0.53
25:W3:178:ALA:HB1	25:W3:206:TRP:CE2	2.44	0.53
26:X2:186:ARG:HA	26:X2:190:PHE:HB2	1.90	0.53
26:X2:282:PHE:HD2	34:i:15:GLN:CB	2.10	0.53
28:Z1:526:ARG:CB	30:b1:206:ASN:C	2.82	0.53
28:Z2:526:ARG:CB	30:b2:206:ASN:CB	2.66	0.53
28:Z3:438:GLU:CB	30:b3:333:HIS:HE1	2.22	0.53
28:Z3:554:PHE:HD1	30:b3:232:PRO:HB2	1.71	0.53
28:Z3:556:ASN:OD1	30:b3:200:LEU:HD11	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a2:358[A]:VAL:HG13	29:a2:363[A]:LEU:HD23	1.89	0.53
30:b1:11:PRO:HB2	30:b1:14:VAL:HG23	1.90	0.53
31:c3:702:GLU:CB	31:c5:463:HIS:NE2	2.51	0.53
34:i:229:ALA:HB2	35:j:783:VAL:HG22	1.90	0.53
1:A1:785:ILE:HD11	1:A1:825:ARG:CG	2.38	0.53
1:A1:874:VAL:HG11	6:D3:272:VAL:HA	1.91	0.53
2:A2:780:GLU:N	6:D1:677:GLN:C	2.66	0.53
2:A2:978:ASP:O	6:D1:473:GLU:C	2.52	0.53
1:A3:1170:ILE:N	3:A6:590:SER:C	2.66	0.53
1:A3:1203:TYR:HB2	2:A4:730:THR:O	2.08	0.53
2:A4:85:VAL:O	3:A6:405:PHE:C	2.51	0.53
2:A4:554:GLN:N	3:A6:456:ASP:O	2.29	0.53
2:A4:761:GLN:CG	3:A6:545:GLY:C	2.82	0.53
2:A4:791:ALA:CB	3:A6:247:ASP:OD1	2.57	0.53
2:A4:802:TYR:CZ	3:A6:467:LEU:CA	2.87	0.53
2:A4:826:ASN:OD1	6:D3:633:LYS:HB2	2.04	0.53
2:A4:854:VAL:CG2	3:A6:172:PRO:CD	1.89	0.53
2:A4:871:ASN:O	2:A4:872:ALA:C	2.52	0.53
2:A4:1150:LEU:HD11	5:C4:731:LYS:CG	2.38	0.53
6:D4:440:PHE:O	6:D4:444:LEU:HD13	2.08	0.53
8:F1:1066:ALA:HB3	8:F1:1067:PRO:HD3	1.91	0.53
8:F1:1266:MET:C	17:O2:265:ASN:ND2	2.67	0.53
11:I1:896:PRO:HA	17:O1:232:LYS:HB3	1.91	0.53
11:I1:899:LEU:CD1	17:O1:230:ILE:O	2.52	0.53
11:I1:976:ARG:C	20:R1:150:ASN:HB2	1.85	0.53
11:I1:980:ILE:HG21	15:M1:618:GLN:O	2.03	0.53
11:I1:997:SER:HG	16:N1:427:VAL:N	2.07	0.53
11:I1:1603:ARG:NH1	11:I2:1662:ARG:CB	2.69	0.53
11:I1:1607:GLN:CG	11:I2:1739:GLU:CB	2.63	0.53
11:I2:460:GLN:OE1	11:I2:460:GLN:N	2.39	0.53
11:I2:958:THR:HA	20:R3:168:LEU:HD23	1.88	0.53
11:I2:1055:GLU:O	17:O3:278:GLU:N	2.41	0.53
11:I2:1066:LEU:O	16:N3:427:VAL:N	2.35	0.53
11:I2:1069:SER:OG	16:N3:427:VAL:CB	2.53	0.53
21:S1:882:GLN:C	21:S1:884:ARG:H	2.15	0.53
21:S1:1083:TRP:HA	21:S1:1083:TRP:HE3	1.73	0.53
21:S3:176:MET:CE	21:S3:232:LEU:CD1	2.85	0.53
21:S4:245:LEU:HD22	21:S4:304:GLU:CD	2.34	0.53
21:S4:1001:PHE:CD2	21:S4:1001:PHE:C	2.86	0.53
22:T1:736:LEU:CD2	31:c5:19:THR:HG21	2.36	0.53
22:T3:781:THR:HG23	22:T3:783:THR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:885:ARG:HH11	22:T4:885:ARG:CG	2.11	0.53
23:U1:16:SER:HB2	31:c2:470:ARG:NE	2.15	0.53
23:U1:21:GLU:OE1	31:c2:472:GLU:HB2	2.08	0.53
23:U2:396:LEU:O	31:c4:554:LEU:HD22	2.02	0.53
23:U2:438:GLU:HG2	31:c4:195:ILE:CD1	2.39	0.53
24:V1:520:ARG:NH2	24:V1:542:GLN:HE21	2.06	0.53
25:W2:236:GLN:HB2	25:W2:243:TRP:CE3	2.42	0.53
25:W4:178:ALA:HB1	25:W4:206:TRP:CE2	2.44	0.53
25:W4:275:ASP:N	25:W4:275:ASP:OD1	2.42	0.53
26:X2:340:GLY:O	34:i:403:SER:CB	2.57	0.53
26:X2:360:PHE:HD1	34:i:422:HIS:HB2	1.73	0.53
26:X2:365:ILE:CB	34:i:424:LEU:HG	2.38	0.53
28:Z1:526:ARG:O	30:b1:206:ASN:CG	2.37	0.53
28:Z2:524:VAL:CG1	30:b2:236:THR:CA	2.84	0.53
28:Z2:554:PHE:HE2	30:b2:234:LEU:HD23	1.74	0.53
28:Z2:557:CYS:CA	30:b2:210:ARG:CA	2.60	0.53
28:Z4:521:SER:OG	30:b4:238:ASN:CB	2.57	0.53
28:Z4:531:LYS:HZ1	30:b4:166:LEU:CB	2.13	0.53
30:b4:11:PRO:HB2	30:b4:14:VAL:HG23	1.90	0.53
31:c4:19:THR:HB	31:c4:24:GLN:HG2	1.91	0.53
31:c5:464:LEU:HD12	31:c5:465:PRO:HD2	1.91	0.53
1:A1:870:HIS:CE1	6:D3:279:HIS:CE1	2.94	0.53
2:A2:227:SER:CA	6:D1:712:ASP:H	2.21	0.53
2:A2:882:SER:CB	6:D1:604:ASP:OD2	2.56	0.53
2:A2:973:GLU:HB3	6:D1:498:GLU:CG	2.39	0.53
2:A2:1159:ASP:N	3:A5:176:LEU:HB2	2.24	0.53
1:A3:1017:THR:HG21	1:A3:1048:ARG:HH11	1.74	0.53
1:A3:1191:ASN:O	3:A6:615:LEU:HD23	2.07	0.53
1:A3:1201:ARG:CG	2:A4:728:LYS:C	2.52	0.53
1:A3:1232:SER:OG	3:A6:577:ASP:OD1	2.22	0.53
1:A3:1237:LEU:CD2	3:A6:597:GLU:OE2	2.57	0.53
1:A3:1254:LEU:CD2	3:A6:634:ASP:HA	2.38	0.53
2:A4:619:CYS:HA	3:A6:495:ASP:OD2	2.09	0.53
2:A4:689:LYS:HD3	3:A6:381:LEU:HD21	1.88	0.53
2:A4:691:LYS:CB	3:A6:316:ARG:NH2	2.52	0.53
2:A4:717:VAL:CG2	3:A6:403:ARG:CZ	2.84	0.53
2:A4:727:ASN:CB	3:A6:497:GLY:CA	2.47	0.53
2:A4:762:LYS:HB3	3:A6:472:SER:HB2	1.82	0.53
2:A4:798:LYS:CD	3:A6:314:TRP:CE2	2.91	0.53
2:A4:895:PRO:CA	4:B6:344:ALA:HB2	2.30	0.53
2:A4:898:LEU:HB2	3:A6:177:ILE:CA	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:947:LYS:HD2	3:A6:203:ILE:HG12	1.89	0.53
6:D6:532:LEU:O	6:D6:536:THR:HG23	2.08	0.53
6:D6:804:SER:HB2	22:T3:764:PHE:HE2	0.76	0.53
6:D7:530:ARG:HG2	11:I3:181:GLN:CA	2.37	0.53
8:F1:1261:TYR:O	17:O2:263:GLN:CA	2.57	0.53
8:F2:1137:GLN:NE2	17:O4:252:VAL:N	2.26	0.53
11:I1:874:LEU:C	17:O1:251:ILE:C	2.68	0.53
11:I1:884:LEU:HD22	16:N1:396:ILE:CD1	2.38	0.53
11:I1:941:GLY:CA	17:O1:260:LEU:HA	2.39	0.53
11:I1:1043:LEU:HG	20:R1:170:LEU:HD22	1.90	0.53
11:I1:1046:HIS:HD1	17:O1:284:LYS:N	1.62	0.53
11:I2:966:TRP:HB3	20:R3:150:ASN:O	2.09	0.53
11:I2:968:PRO:C	20:R3:149:ARG:NH1	2.56	0.53
11:I2:983:LEU:O	15:M3:614:ASP:OD2	2.27	0.53
11:I2:997:SER:CB	16:N3:427:VAL:CG2	2.69	0.53
11:I5:460:GLN:OE1	11:I5:460:GLN:N	2.39	0.53
21:S1:353:VAL:HG22	21:S1:374:THR:HG22	1.91	0.53
21:S1:1001:PHE:CD2	21:S1:1001:PHE:C	2.86	0.53
21:S2:245:LEU:HD22	21:S2:304:GLU:CD	2.34	0.53
23:U2:11:ARG:CA	31:c4:469:SER:OG	2.57	0.53
23:U2:24:ILE:HD13	31:c4:457:LEU:CD1	2.37	0.53
23:U3:341:HIS:CE1	23:U3:343:ILE:HD12	2.43	0.53
24:V1:186:PHE:HD1	24:V1:487:LEU:HD11	1.74	0.53
24:V1:345:SER:HB3	24:V1:371:PHE:CE2	2.43	0.53
24:V3:186:PHE:HD1	24:V3:487:LEU:HD11	1.74	0.53
24:V4:525:ASP:HA	24:V4:528:LEU:HD12	1.90	0.53
25:W3:212:TRP:HA	25:W3:222:LEU:HD23	1.90	0.53
28:Z1:521:SER:OG	30:b1:238:ASN:HB3	2.09	0.53
28:Z1:533:LEU:HB2	30:b1:164:CYS:SG	2.49	0.53
28:Z3:533:LEU:HB2	30:b3:164:CYS:SG	2.49	0.53
32:g:209:VAL:HG23	32:g:209:VAL:O	2.08	0.53
2:A2:226:PRO:C	6:D1:712:ASP:H	2.16	0.53
1:A3:1333:ARG:HA	6:D3:637:LYS:CD	2.38	0.53
2:A4:87:GLN:H	3:A6:392:LEU:C	2.14	0.53
2:A4:227:SER:HB3	6:D3:709:ARG:O	2.09	0.53
2:A4:553:ASP:HA	3:A6:435:PRO:N	2.13	0.53
2:A4:621:GLN:NE2	3:A6:110:TYR:CD2	2.70	0.53
2:A4:646:ILE:HD11	3:A6:500:LYS:HG2	1.88	0.53
2:A4:870:HIS:CD2	6:D3:566:PHE:HD1	2.25	0.53
2:A4:968:SER:O	6:D3:203:PRO:CD	2.56	0.53
2:A4:975:GLU:O	6:D3:502:LEU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1367:THR:CG2	28:Z4:876:LEU:N	2.70	0.53
6:D1:440:PHE:O	6:D1:444:LEU:HD13	2.08	0.53
6:D7:440:PHE:O	6:D7:444:LEU:HD13	2.08	0.53
8:F1:1264:ARG:HH12	17:O2:264:ILE:CD1	2.09	0.53
8:F1:1265:GLN:OE1	17:O2:257:ALA:O	2.27	0.53
11:I1:938:CYS:O	17:O1:260:LEU:O	2.27	0.53
11:I1:940:LEU:CD1	17:O1:258:GLU:HB3	2.38	0.53
11:I1:1048:GLU:C	15:M1:622:VAL:HG11	2.34	0.53
11:I2:465:GLU:N	11:I2:465:GLU:OE1	2.38	0.53
11:I2:877:ILE:C	17:O3:253:LEU:N	2.67	0.53
11:I2:881:ILE:HB	17:O3:249:ARG:HG2	1.85	0.53
11:I2:922:ASP:H	15:M3:592:LEU:CG	2.21	0.53
11:I2:932:VAL:CG1	15:M3:612:PRO:HB3	2.35	0.53
11:I2:1032:THR:O	20:R3:173:LEU:HG	2.08	0.53
11:I2:1045:PHE:HD1	17:O3:279:ILE:HG22	1.73	0.53
11:I2:1046:HIS:N	17:O3:280:GLU:C	2.65	0.53
11:I2:1054:ILE:HG21	17:O3:278:GLU:HB3	1.90	0.53
11:I3:1116:ASP:OD1	12:J3:241:THR:CG2	2.56	0.53
11:I3:1272:TYR:CZ	26:X1:524:SER:HB3	2.33	0.53
11:I4:1270:LYS:HE3	26:X3:527:VAL:HG11	0.57	0.53
21:S1:659:ARG:HA	21:S2:1102:VAL:HG13	1.91	0.53
23:U2:45:ALA:CA	31:c4:470:ARG:HB3	2.39	0.53
23:U2:78:VAL:O	31:c4:553:LEU:CG	2.55	0.53
23:U2:350:VAL:HG22	23:U2:355:LEU:HD22	1.90	0.53
26:X2:191:ILE:C	34:i:443:THR:CG2	2.81	0.53
26:X2:197:VAL:HG22	34:i:441:LEU:C	2.31	0.53
26:X2:300:SER:H	34:i:368[A]:CYS:CA	2.21	0.53
26:X2:369:GLU:HG2	34:i:428:LEU:CD2	0.43	0.53
27:Y2:53:ALA:HB1	27:Y2:84:TRP:CZ2	2.44	0.53
28:Z2:102:MET:HB3	28:Z2:107:THR:HG21	1.90	0.53
28:Z3:521:SER:OG	30:b3:238:ASN:HB3	2.09	0.53
2:A2:824:ASN:OD1	2:A2:859:GLN:NE2	2.40	0.52
2:A2:859:GLN:C	6:D1:606:LYS:HD3	1.98	0.52
2:A2:1131:ILE:HB	3:A5:140:ALA:H	1.73	0.52
2:A2:1137:ALA:HB1	3:A5:564:ASN:C	2.34	0.52
1:A3:1098:ARG:HH21	11:I2:1421:ARG:HH21	1.57	0.52
1:A3:1280:GLN:OE1	3:A6:571:ARG:NH2	2.41	0.52
2:A4:635:ARG:NH2	3:A6:603:ASN:N	2.44	0.52
2:A4:712:THR:O	3:A6:490:PHE:CE2	2.47	0.52
2:A4:717:VAL:HG21	3:A6:476:PHE:CG	2.43	0.52
2:A4:733:GLY:O	3:A6:543:GLY:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:817:VAL:HG11	3:A6:146:LYS:HE3	1.90	0.52
2:A4:858:ALA:C	6:D3:606:LYS:HE2	2.27	0.52
2:A4:954:ILE:O	4:B6:343:LYS:O	2.27	0.52
2:A4:976:LEU:CD1	6:D3:501:LEU:HB3	2.37	0.52
3:A5:153:ILE:CG1	5:C2:739:MET:CE	2.85	0.52
3:A6:1391:ARG:N	28:Z4:908:LEU:O	2.42	0.52
4:B5:345:LYS:O	5:C2:737:LYS:HD2	2.09	0.52
6:D3:440:PHE:O	6:D3:444:LEU:HD13	2.08	0.52
8:F1:383:HIS:ND1	8:F1:471:GLN:OE1	2.42	0.52
8:F2:1807:GLU:OE1	8:F2:1807:GLU:N	2.42	0.52
11:I1:860:LEU:HB3	17:O1:262:ASP:OD1	2.10	0.52
11:I1:924:ILE:O	15:M1:597:LYS:CG	2.56	0.52
11:I1:966:TRP:HZ3	20:R1:167:GLN:CG	1.66	0.52
11:I1:967:SER:HB3	20:R1:150:ASN:HD21	1.74	0.52
11:I1:1030:ARG:HD2	20:R1:175:GLN:OE1	2.09	0.52
11:I1:1035:GLN:C	15:M1:623:LEU:O	2.52	0.52
11:I2:960:SER:O	20:R3:165:SER:CB	2.56	0.52
11:I2:1052:LEU:HD23	16:N3:434:LEU:CD1	2.37	0.52
11:I2:1067:PHE:HB3	16:N3:431:VAL:HG23	1.90	0.52
11:I2:1103:LEU:CD2	20:R3:174:ARG:HB3	2.37	0.52
11:I2:1106:LYS:HG3	16:N3:439:ARG:HH22	1.73	0.52
11:I4:94:GLU:N	11:I4:94:GLU:OE1	2.38	0.52
11:I4:1274:HIS:NE2	26:X3:526:CYS:N	2.53	0.52
17:O4:109:PRO:CB	18:P4:318:PRO:HB3	2.39	0.52
21:S2:622:GLY:O	21:S2:623:ARG:O	2.27	0.52
21:S3:1001:PHE:CD2	21:S3:1001:PHE:C	2.87	0.52
22:T1:751:ARG:O	31:c5:58:ARG:NH2	2.40	0.52
22:T2:853:CYS:O	22:T2:857:LEU:HG	2.09	0.52
23:U1:20:LYS:HG2	31:c2:469:SER:N	1.76	0.52
23:U4:254:ALA:O	24:V4:315:LYS:NZ	2.40	0.52
24:V1:433:GLU:OE1	24:V1:467:SER:OG	2.20	0.52
24:V2:186:PHE:HD1	24:V2:487:LEU:HD11	1.74	0.52
25:W1:154:ALA:HB2	25:W1:212:TRP:CE3	2.44	0.52
26:X2:294:GLN:CD	34:i:452:ILE:HG12	2.32	0.52
26:X2:299:SER:C	34:i:369:VAL:HG23	2.34	0.52
26:X2:368:LEU:N	34:i:441:LEU:CG	2.70	0.52
28:Z1:524:VAL:CG1	30:b1:236:THR:CA	2.84	0.52
28:Z1:526:ARG:HD3	30:b1:207:GLY:CA	2.36	0.52
28:Z4:438:GLU:CB	30:b4:333:HIS:HE1	2.22	0.52
28:Z4:534:ASP:OD2	30:b4:183:LEU:CA	2.52	0.52
28:Z4:554:PHE:O	30:b4:233:TRP:O	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1196:GLU:O	2:A2:729:SER:HB2	2.09	0.52
2:A2:226:PRO:HG2	6:D1:711:PHE:N	2.24	0.52
2:A2:970:PHE:CA	6:D1:192:TYR:CE1	2.53	0.52
2:A2:980:ARG:HE	6:D1:526:LEU:N	2.07	0.52
2:A2:980:ARG:HB2	6:D1:526:LEU:HB2	1.89	0.52
2:A2:1023:ILE:O	2:A2:1024:ASP:HB3	2.08	0.52
2:A2:1139:ILE:HG12	3:A5:130:ILE:CG2	2.35	0.52
1:A3:1021:LEU:CG	6:D3:816:VAL:CG1	2.61	0.52
1:A3:1172:HIS:HA	3:A6:587:VAL:O	2.08	0.52
2:A4:78:VAL:O	3:A6:383:PRO:O	2.27	0.52
2:A4:89:LEU:CD1	3:A6:406:LEU:CG	2.87	0.52
2:A4:541:PRO:O	3:A6:364:HIS:HA	2.10	0.52
2:A4:619:CYS:O	3:A6:111:GLU:N	2.42	0.52
2:A4:776:MET:HB2	3:A6:519:LEU:HD11	1.90	0.52
3:A5:1372:THR:CB	28:Z2:828:LEU:CB	2.88	0.52
3:A6:442:ARG:NH2	6:D3:692:LEU:HD21	2.24	0.52
3:A6:484:PRO:CG	6:D3:672:GLU:CD	2.68	0.52
11:I1:842:ASN:OD1	11:I1:843:GLU:N	2.43	0.52
11:I1:932:VAL:N	15:M1:604:ASN:HB2	2.23	0.52
11:I1:1104:LEU:CD1	16:N1:433:GLU:CG	2.59	0.52
11:I1:1118:LEU:CD1	16:N1:432:TYR:HE2	2.20	0.52
11:I1:1284:GLU:OE1	11:I1:1284:GLU:N	2.38	0.52
11:I2:877:ILE:HD13	17:O3:253:LEU:C	2.23	0.52
11:I2:890:TYR:CA	17:O3:238:ALA:O	2.58	0.52
11:I2:922:ASP:CB	20:R3:163:LEU:CD1	2.26	0.52
11:I2:1038:ILE:HD13	15:M3:620:VAL:CB	2.27	0.52
11:I2:1046:HIS:CA	17:O3:280:GLU:HB3	2.39	0.52
11:I3:1275:SER:CB	26:X1:522:MET:O	2.55	0.52
11:I4:842:ASN:OD1	11:I4:843:GLU:N	2.43	0.52
11:I5:1273:GLU:O	26:X2:521:TRP:CA	2.43	0.52
18:P1:277:PRO:HB2	18:P4:322:LYS:CA	2.38	0.52
21:S2:934:HIS:C	21:S2:936:SER:H	2.18	0.52
22:T1:741:ASP:CG	31:c5:24:GLN:HG2	2.33	0.52
22:T3:910:MET:O	22:T3:914:GLN:HG3	2.10	0.52
23:U2:412:LEU:C	31:c4:541:ARG:CZ	2.82	0.52
23:U2:432:TYR:N	31:c4:464:LEU:HD22	2.24	0.52
24:V1:339:LEU:CB	31:c1:627:ASP:H	2.13	0.52
24:V1:526:HIS:C	24:V1:528:LEU:N	2.68	0.52
24:V1:548:TYR:HB2	25:W1:64:PRO:HB3	1.90	0.52
24:V4:397:GLU:OE1	24:V4:397:GLU:N	2.40	0.52
26:X1:280:VAL:HG21	26:X1:321:ALA:HB3	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:403:HIS:HE1	37:k2:450:HIS:NE2	0.45	0.52
26:X2:196:ASP:C	34:i:442:SER:OG	2.50	0.52
26:X2:204:PHE:HA	34:i:443:THR:CA	2.39	0.52
27:Y1:10:ASP:HB3	27:Y1:29:SER:HB2	1.92	0.52
28:Z2:232:ARG:NE	28:Z2:249:THR:OG1	2.39	0.52
28:Z2:521:SER:OG	30:b2:238:ASN:CB	2.57	0.52
28:Z4:532:PHE:H	30:b4:184:SER:HA	1.73	0.52
30:b3:11:PRO:HB2	30:b3:14:VAL:HG23	1.90	0.52
31:c2:599:MET:HE2	31:c2:656:ILE:HB	1.92	0.52
2:A2:865:ALA:N	6:D1:604:ASP:O	2.42	0.52
2:A2:872:ALA:CB	6:D1:565:MET:SD	2.94	0.52
2:A2:1136:LYS:CA	3:A5:138:LEU:CB	2.87	0.52
2:A2:1141:GLU:O	3:A5:129:ASN:CB	2.51	0.52
1:A3:1306:PRO:HA	3:A6:715:GLU:HG2	1.90	0.52
2:A4:723:PHE:CA	3:A6:495:ASP:C	2.76	0.52
2:A4:772:SER:O	3:A6:489:LEU:CD2	2.58	0.52
2:A4:802:TYR:OH	3:A6:467:LEU:CA	2.57	0.52
2:A4:864:ARG:HG2	6:D3:609:ILE:HB	1.91	0.52
2:A4:878:LEU:CG	6:D3:607:PRO:HG2	2.39	0.52
2:A4:985:ALA:CA	6:D3:500:LYS:CA	2.88	0.52
3:A5:175:GLU:CB	5:C2:733:LEU:HD11	2.38	0.52
3:A6:1399:ARG:HH21	28:Z4:969:MET:H	1.56	0.52
6:D7:532:LEU:O	6:D7:536:THR:HG23	2.08	0.52
8:F1:1266:MET:CE	17:O2:262:ASP:OD1	2.47	0.52
8:F1:1807:GLU:N	8:F1:1807:GLU:OE1	2.42	0.52
11:I1:954:GLU:O	16:N1:399:HIS:CA	2.56	0.52
11:I1:980:ILE:HA	15:M1:617:THR:C	2.26	0.52
11:I1:1113:LEU:CB	16:N1:435:ALA:HB1	2.37	0.52
11:I2:942:HIS:CG	17:O3:259:ASP:CA	2.92	0.52
11:I2:943:ALA:N	17:O3:263:GLN:OE1	2.43	0.52
11:I3:779:PRO:HD3	29:a2:40[A]:GLU:OE2	2.09	0.52
11:I4:77:GLU:OE1	11:I4:77:GLU:N	2.38	0.52
11:I5:842:ASN:OD1	11:I5:843:GLU:N	2.43	0.52
11:I5:1279:THR:HG23	26:X2:521:TRP:N	2.22	0.52
17:O1:81:LEU:O	17:O1:85:LYS:HG2	2.10	0.52
21:S3:934:HIS:C	21:S3:936:SER:H	2.18	0.52
22:T3:760:PHE:HD1	22:T3:864:ILE:HD11	1.74	0.52
22:T3:818:TYR:CZ	22:T3:861:LEU:HD21	2.45	0.52
22:T4:738:ALA:HA	22:T4:833:ARG:HG2	1.92	0.52
23:U2:206:ILE:HG23	24:V2:336:LEU:HB3	1.91	0.52
23:U2:391:HIS:CG	31:c4:477:GLU:CG	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:437:ASN:HB3	31:c4:195:ILE:CD1	2.40	0.52
24:V2:525:ASP:HA	24:V2:528:LEU:HD12	1.90	0.52
24:V4:345:SER:HB3	24:V4:371:PHE:CE2	2.43	0.52
25:W2:154:ALA:HB2	25:W2:212:TRP:CE3	2.44	0.52
25:W2:275:ASP:OD1	25:W2:275:ASP:N	2.42	0.52
25:W4:212:TRP:HA	25:W4:222:LEU:HD23	1.90	0.52
26:X2:205:ILE:HD11	34:i:367:GLU:OE1	2.08	0.52
26:X2:301:SER:HA	34:i:325:VAL:HA	1.91	0.52
26:X2:332:ILE:HD12	34:i:476:LEU:HB3	1.91	0.52
26:X2:336:LEU:CD1	34:i:477:GLY:HA2	2.35	0.52
27:Y4:53:ALA:HB1	27:Y4:84:TRP:CZ2	2.44	0.52
28:Z2:500:GLU:HB2	28:Z2:507:PHE:CZ	2.45	0.52
28:Z2:556:ASN:OD1	30:b2:200:LEU:HD11	2.08	0.52
28:Z4:556:ASN:OD1	30:b4:200:LEU:HD11	2.08	0.52
29:a2:9:VAL:HG11	29:a2:372[A]:ILE:HD12	1.89	0.52
30:b4:138:ASN:HD22	30:b4:161:GLY:HA2	1.74	0.52
31:c5:599:MET:HE2	31:c5:656:ILE:HB	1.92	0.52
33:h:88:LEU:O	33:h:88:LEU:CD1	2.53	0.52
33:h:209:ILE:HD13	33:h:209:ILE:N	2.25	0.52
1:A1:831:ALA:O	6:D3:298:ASN:HB3	1.96	0.52
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CG	2.92	0.52
2:A2:868:GLN:HB3	6:D1:570:VAL:CB	2.38	0.52
2:A2:980:ARG:HE	6:D1:525:ARG:C	2.17	0.52
2:A2:986:THR:HG23	6:D1:497:PHE:CD1	2.45	0.52
2:A2:1151:THR:CG2	5:C2:734:VAL:O	2.57	0.52
1:A3:1098:ARG:C	11:I2:1414:CYS:SG	2.92	0.52
2:A4:806:PHE:HB3	3:A6:470:ARG:O	2.09	0.52
2:A4:879:LEU:CD1	6:D3:564:ASN:HD21	2.19	0.52
2:A4:958:LEU:HD12	4:B6:343:LYS:N	1.29	0.52
3:A5:1029:ILE:HA	11:I5:69:GLY:CA	2.28	0.52
3:A5:1092:ASN:N	11:I5:37:GLU:H	2.07	0.52
3:A5:1094:ILE:CG1	11:I5:4:LEU:CD1	2.70	0.52
3:A6:1392:ARG:C	28:Z4:913:ILE:CA	2.73	0.52
6:D5:243:LYS:HB3	31:c3:470:ARG:NH1	2.22	0.52
6:D7:530:ARG:HG2	11:I3:182:VAL:N	2.25	0.52
8:F1:982:PRO:HB2	11:I1:1388:GLU:HG2	1.91	0.52
11:I1:878:GLN:HE21	17:O1:252:VAL:CG1	2.22	0.52
11:I1:895:ARG:HG3	17:O1:235:ASN:N	2.07	0.52
11:I1:925:LEU:CD1	20:R1:163:LEU:HA	2.38	0.52
11:I1:959:SER:HG	11:I1:960:SER:N	1.94	0.52
11:I1:976:ARG:O	20:R1:150:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:978:LYS:HE3	20:R1:154:ALA:C	1.88	0.52
11:I1:1736:LEU:CD1	11:I2:1607:GLN:NE2	2.67	0.52
11:I2:896:PRO:HD3	17:O3:233:THR:CG2	2.38	0.52
11:I2:899:LEU:CD2	17:O3:235:ASN:OD1	2.33	0.52
11:I2:922:ASP:C	15:M3:589:GLY:O	2.53	0.52
11:I2:1034:ASP:H	20:R3:177:LEU:HD23	1.73	0.52
11:I3:1273:GLU:CB	26:X1:527:VAL:N	2.72	0.52
21:S2:353:VAL:HG22	21:S2:374:THR:HG22	1.91	0.52
21:S4:353:VAL:HG22	21:S4:374:THR:HG22	1.91	0.52
21:S4:1012:LEU:HD13	21:S4:1034:LEU:HD22	1.90	0.52
22:T2:738:ALA:HA	22:T2:833:ARG:HG2	1.92	0.52
22:T4:781:THR:HG23	22:T4:783:THR:H	1.73	0.52
23:U1:350:VAL:HG22	23:U1:355:LEU:HD22	1.89	0.52
23:U1:437:ASN:HB2	31:c2:539:ILE:C	2.33	0.52
23:U2:222:VAL:HG12	24:V2:256:VAL:HA	1.90	0.52
23:U2:406:GLU:CA	31:c4:542:LYS:O	2.58	0.52
23:U2:413:ILE:N	31:c4:541:ARG:CA	2.42	0.52
23:U2:429:ILE:HG21	31:c4:463:HIS:HD2	1.66	0.52
23:U3:278:GLN:CG	25:W4:189:SER:O	2.56	0.52
24:V2:520:ARG:HH21	24:V2:542:GLN:HE21	1.58	0.52
28:Z1:400:LYS:HB3	30:b1:205:ARG:NH2	2.25	0.52
28:Z1:411:LEU:H	30:b1:251:ILE:HD13	1.11	0.52
28:Z2:526:ARG:CB	30:b2:206:ASN:C	2.82	0.52
28:Z2:531:LYS:HZ1	30:b2:166:LEU:CB	2.16	0.52
29:a3:231[A]:HIS:H	29:a3:231[A]:HIS:CD2	2.28	0.52
31:c3:19:THR:HB	31:c3:24:GLN:HG2	1.91	0.52
2:A2:980:ARG:NE	6:D1:525:ARG:C	2.66	0.52
2:A2:1121:LEU:O	3:A5:136:GLU:OE1	2.27	0.52
1:A3:1021:LEU:CA	6:D3:816:VAL:CG1	2.85	0.52
1:A3:1189:LEU:CD1	3:A6:583:LEU:HD21	2.39	0.52
1:A3:1251:VAL:H	3:A6:633:MET:CB	2.21	0.52
1:A3:1255:LEU:H	3:A6:634:ASP:CG	2.17	0.52
1:A3:1258:VAL:N	3:A6:623:SER:HB3	2.25	0.52
2:A4:537:ALA:N	3:A6:368:SER:OG	2.18	0.52
2:A4:675:ALA:HB2	3:A6:508:LEU:CD1	2.39	0.52
2:A4:762:LYS:O	3:A6:471:PHE:CA	2.21	0.52
2:A4:801:THR:HB	3:A6:381:LEU:HG	1.85	0.52
2:A4:808:GLN:CG	3:A6:383:PRO:HG2	2.23	0.52
2:A4:925:LYS:HZ3	3:A6:233:THR:C	2.18	0.52
2:A4:975:GLU:O	6:D3:501:LEU:CA	2.57	0.52
3:A5:234:LEU:HD12	5:C2:737:LYS:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1369:ILE:HG12	28:Z2:832:PHE:N	2.20	0.52
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CA	2.40	0.52
3:A5:1395:LYS:CE	28:Z2:872:TYR:N	2.71	0.52
3:A6:483:HIS:C	6:D3:675:ARG:HB2	2.35	0.52
11:I1:747:GLU:N	11:I1:747:GLU:OE1	2.38	0.52
11:I1:833:PHE:CA	17:O1:241:SER:HB2	2.38	0.52
11:I1:881:ILE:CB	17:O1:249:ARG:C	2.82	0.52
11:I1:1644:ARG:CZ	12:J1:275:PHE:CE2	2.93	0.52
11:I2:846:ILE:HG21	17:O3:247:TRP:HZ2	1.66	0.52
11:I2:953:LEU:HD11	15:M3:606:LEU:H	1.74	0.52
11:I2:976:ARG:CB	20:R3:149:ARG:CB	2.53	0.52
11:I2:1052:LEU:O	17:O3:285:LYS:N	2.43	0.52
11:I2:1054:ILE:HA	17:O3:281:ALA:N	2.11	0.52
11:I2:1644:ARG:HD3	12:J2:275:PHE:CE1	2.45	0.52
11:I2:1644:ARG:CZ	12:J2:275:PHE:CE2	2.93	0.52
21:S1:950:HIS:CE1	21:S1:995:MET:HE1	2.45	0.52
21:S3:678:GLU:CB	21:S4:1143:VAL:N	2.73	0.52
22:T2:781:THR:HG23	22:T2:783:THR:H	1.73	0.52
22:T2:910:MET:O	22:T2:914:GLN:HG3	2.10	0.52
22:T3:696:MET:HE3	22:T3:708:ALA:O	2.10	0.52
23:U1:23:LYS:HD2	31:c2:479:ILE:CA	2.36	0.52
23:U2:398:ILE:CB	31:c4:555:VAL:HG22	2.39	0.52
23:U3:159:ASP:OD2	24:V3:319:LEU:N	2.29	0.52
24:V2:548:TYR:HB2	25:W2:64:PRO:HB3	1.90	0.52
25:W1:275:ASP:OD1	25:W1:275:ASP:N	2.41	0.52
25:W4:154:ALA:HB2	25:W4:212:TRP:CE3	2.44	0.52
26:X2:317:PHE:N	34:i:400:LYS:HE3	2.25	0.52
27:Y3:10:ASP:HB3	27:Y3:29:SER:HB2	1.92	0.52
28:Z1:521:SER:OG	30:b1:238:ASN:CB	2.57	0.52
28:Z3:400:LYS:HB3	30:b3:205:ARG:NH2	2.25	0.52
28:Z4:70:TYR:HA	28:Z4:80:THR:O	2.10	0.52
28:Z4:521:SER:OG	30:b4:238:ASN:HB3	2.08	0.52
28:Z4:526:ARG:HD3	30:b4:207:GLY:CA	2.36	0.52
30:b3:138:ASN:HD22	30:b3:161:GLY:HA2	1.74	0.52
31:c3:544:VAL:O	31:c3:548:VAL:HG23	2.10	0.52
1:A1:1223:GLU:CG	2:A2:734:LEU:HD21	2.36	0.52
2:A2:227:SER:CB	6:D1:711:PHE:CG	2.84	0.52
2:A2:235:TYR:HE1	4:B2:347:LEU:CD1	2.21	0.52
2:A2:826:ASN:HB3	6:D1:633:LYS:HB2	1.83	0.52
2:A2:1151:THR:C	5:C2:733:LEU:HD12	2.33	0.52
1:A3:1204:TRP:CH2	3:A6:95:TYR:CE2	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1220:PRO:HG2	2:A4:672:ARG:NH1	2.24	0.52
2:A4:607:ARG:CA	3:A6:506:SER:CB	2.78	0.52
2:A4:859:GLN:CA	3:A6:134:VAL:H	2.21	0.52
2:A4:868:GLN:HG2	6:D3:598:ILE:HD13	1.90	0.52
3:A5:862:LEU:CD1	3:A5:904:GLN:HB3	2.40	0.52
3:A5:1098:ARG:CD	11:I5:29:GLN:HG3	2.30	0.52
3:A6:1375:THR:C	28:Z4:830:LEU:CB	2.76	0.52
5:C1:732:LYS:HG2	11:I1:1228:GLU:CG	2.39	0.52
11:I1:1635:HIS:HD2	11:I2:1674:HIS:CD2	2.27	0.52
11:I2:880:MET:HE2	17:O3:247:TRP:HZ3	1.73	0.52
11:I2:884:LEU:HD13	16:N3:400:LEU:HG	1.91	0.52
11:I2:942:HIS:HB2	17:O3:259:ASP:HA	1.77	0.52
11:I2:948:ALA:HB3	17:O3:256:TYR:C	2.32	0.52
11:I2:1035:GLN:O	16:N3:441:PHE:CZ	2.63	0.52
11:I3:1326:GLU:OE1	12:J3:251:TYR:CE2	2.63	0.52
11:I3:1644:ARG:HD3	12:J3:275:PHE:CE1	2.45	0.52
21:S4:882:GLN:C	21:S4:884:ARG:H	2.16	0.52
22:T1:738:ALA:HA	22:T1:833:ARG:HG2	1.92	0.52
22:T4:696:MET:HE3	22:T4:708:ALA:O	2.10	0.52
22:T4:910:MET:O	22:T4:914:GLN:HG3	2.10	0.52
23:U1:135:ARG:NE	31:c1:637:ASP:CB	2.72	0.52
23:U1:172:LYS:O	31:c1:505:SER:CA	2.54	0.52
23:U2:42:PHE:CE1	31:c4:477:GLU:C	2.80	0.52
24:V2:178:THR:HG21	24:V2:485:ALA:HB2	1.90	0.52
24:V2:683:LYS:CB	31:c2:53:ILE:CG2	2.88	0.52
24:V4:520:ARG:HH21	24:V4:542:GLN:HE21	1.58	0.52
25:W1:117:LEU:HB2	25:W1:153:TRP:HE1	1.75	0.52
26:X2:283:ASP:CB	34:i:479:THR:HG21	0.75	0.52
26:X2:309:LEU:HD21	34:i:396:HIS:H	1.75	0.52
26:X2:336:LEU:HD13	34:i:478:PRO:CD	1.97	0.52
27:Y2:10:ASP:HB3	27:Y2:29:SER:HB2	1.92	0.52
1:A1:1017:THR:HG21	1:A1:1048:ARG:HH11	1.74	0.52
2:A2:869:ALA:CB	6:D1:583:ILE:HG21	2.40	0.52
2:A2:879:LEU:N	6:D1:567:LEU:CD1	2.64	0.52
2:A2:980:ARG:CG	6:D1:526:LEU:HB3	2.39	0.52
2:A2:982:THR:OG1	6:D1:494:LEU:O	2.26	0.52
2:A2:985:ALA:N	6:D1:498:GLU:CA	2.71	0.52
1:A3:1051:THR:O	6:D3:809:ALA:O	2.27	0.52
1:A3:1056:PHE:CE1	6:D3:811:LEU:N	2.77	0.52
1:A3:1164:TYR:O	3:A6:594:LEU:CD2	2.55	0.52
1:A3:1188:ASN:ND2	3:A6:646:ILE:CG1	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:HD13	3:A6:553:ASP:H	1.74	0.52
1:A3:1328:ARG:HB3	3:A6:127:HIS:O	2.10	0.52
1:A3:1333:ARG:HA	6:D3:637:LYS:HZ2	1.75	0.52
2:A4:536:ALA:N	3:A6:368:SER:O	2.32	0.52
2:A4:553:ASP:CA	3:A6:435:PRO:CD	2.82	0.52
2:A4:622:GLY:CA	3:A6:453:SER:HA	2.39	0.52
3:A5:188:ALA:HB1	5:C2:748:ASN:OD1	2.10	0.52
3:A5:993:ASN:HA	11:I5:57:GLU:HA	1.91	0.52
3:A6:518:GLU:C	6:D3:686:ASP:OD2	2.35	0.52
6:D7:530:ARG:NH1	11:I3:182:VAL:CA	2.73	0.52
8:F1:1262:HIS:HE1	17:O2:259:ASP:H	1.56	0.52
8:F2:383:HIS:ND1	8:F2:471:GLN:OE1	2.42	0.52
9:G1:255:LEU:HD13	17:O2:258:GLU:N	2.24	0.52
11:I1:916:ALA:CA	15:M1:586:ASP:CA	2.80	0.52
11:I1:945:LEU:CD2	17:O1:258:GLU:C	2.46	0.52
11:I1:950:LEU:HD23	15:M1:606:LEU:HD23	1.91	0.52
11:I1:1048:GLU:OE2	17:O1:288:GLU:CG	2.58	0.52
11:I1:1108:PRO:CG	16:N1:444:SER:N	2.73	0.52
11:I1:1636:TYR:OH	11:I2:1674:HIS:NE2	2.40	0.52
11:I1:1739:GLU:HB2	11:I2:1540:LYS:NZ	2.24	0.52
11:I2:915:ALA:HB2	15:M3:584:GLN:N	2.23	0.52
11:I2:922:ASP:CG	15:M3:589:GLY:O	2.52	0.52
11:I2:1054:ILE:C	17:O3:281:ALA:CA	2.82	0.52
11:I2:1103:LEU:CB	20:R3:174:ARG:HB3	2.36	0.52
11:I4:1644:ARG:HD3	12:J4:275:PHE:CE1	2.45	0.52
15:M4:605:THR:O	17:O4:261:LYS:NZ	2.43	0.52
17:O3:81:LEU:O	17:O3:85:LYS:HG2	2.10	0.52
23:U2:323:THR:HB	31:c4:91:PRO:HG2	1.92	0.52
23:U4:206:ILE:HG23	24:V4:336:LEU:HB3	1.91	0.52
26:X2:192:LEU:HD22	34:i:442:SER:HG	1.74	0.52
26:X2:304:ARG:NE	34:i:323:ILE:O	2.40	0.52
26:X2:313:LEU:N	34:i:398:ASP:OD1	2.42	0.52
26:X2:346:ILE:CD1	34:i:422:HIS:CD2	2.92	0.52
28:Z2:401:THR:HA	30:b2:252:ALA:CA	2.40	0.52
1:A1:1221:ILE:HD11	2:A2:618:ALA:HB1	1.90	0.52
2:A2:864:ARG:HE	6:D1:632:ALA:HB1	1.72	0.52
2:A2:980:ARG:HD3	6:D1:503:LEU:CB	1.89	0.52
2:A2:1139:ILE:HG13	3:A5:130:ILE:HG21	1.89	0.52
1:A3:1197:ALA:N	3:A6:609:GLU:CA	2.51	0.52
1:A3:1201:ARG:O	2:A4:732:GLN:HA	2.09	0.52
1:A3:1227:PRO:HB3	3:A6:552:PHE:CE2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1238:ILE:C	3:A6:584:GLY:N	2.57	0.52
1:A3:1254:LEU:CA	3:A6:638:GLU:OE2	2.58	0.52
2:A4:90:GLN:OE1	3:A6:408:ALA:HA	2.09	0.52
2:A4:648:TYR:CE2	3:A6:503:GLN:HB3	2.45	0.52
2:A4:680:LEU:O	3:A6:405:PHE:HZ	1.85	0.52
2:A4:754:HIS:NE2	3:A6:685:ARG:NH2	2.47	0.52
2:A4:826:ASN:OD1	3:A6:135:PHE:CE1	2.55	0.52
2:A4:859:GLN:HG2	3:A6:134:VAL:CG2	2.00	0.52
2:A4:899:THR:H	3:A6:178:GLY:HA3	0.48	0.52
2:A4:983:LEU:HD23	6:D3:528:PHE:CD1	2.45	0.52
2:A4:1094:ILE:HD13	6:D4:708:ASP:N	2.25	0.52
3:A5:996:ASN:C	11:I5:58:ALA:C	2.62	0.52
3:A5:1312:ARG:HD2	28:Z2:832:PHE:HA	1.76	0.52
3:A5:1369:ILE:HD11	28:Z2:831:LEU:C	2.34	0.52
3:A6:785:ILE:HD11	3:A6:825:ARG:CG	2.38	0.52
3:A6:862:LEU:CD1	3:A6:904:GLN:HB3	2.40	0.52
5:C3:732:LYS:HE2	11:I2:1228:GLU:HG3	1.91	0.52
9:G2:263:MET:SD	17:O4:263:GLN:OE1	2.68	0.52
11:I1:846:ILE:HB	17:O1:247:TRP:CH2	2.45	0.52
11:I1:922:ASP:C	15:M1:593:ALA:CB	2.80	0.52
11:I1:1109:LEU:N	16:N1:442:GLU:N	2.58	0.52
11:I1:1608:SER:O	12:J2:299:GLY:N	2.42	0.52
11:I1:1664:PHE:CE2	11:I2:1668:HIS:CA	2.93	0.52
11:I1:1668:HIS:CB	11:I2:1668:HIS:O	2.57	0.52
11:I1:1677:LYS:NZ	11:I2:1543:LEU:CD1	2.73	0.52
11:I2:947:LEU:CD1	17:O3:260:LEU:CD2	2.58	0.52
11:I2:955:LYS:HG3	16:N3:403:VAL:CG2	2.38	0.52
11:I2:1048:GLU:HG3	17:O3:288:GLU:HG2	1.87	0.52
11:I2:1051:LYS:C	17:O3:284:LYS:O	2.52	0.52
11:I2:1061:ASP:CG	17:O3:278:GLU:CB	2.82	0.52
11:I4:1326:GLU:OE1	12:J4:251:TYR:CE2	2.63	0.52
21:S2:1036:ILE:HD11	21:S2:1073:ILE:HA	1.92	0.52
22:T2:818:TYR:CZ	22:T2:861:LEU:HD21	2.45	0.52
22:T4:891:VAL:CG1	22:T4:891:VAL:O	2.58	0.52
23:U2:341:HIS:CE1	23:U2:343:ILE:HD12	2.43	0.52
23:U4:431:ILE:HD12	23:U4:431:ILE:H	1.74	0.52
25:W1:178:ALA:HB1	25:W1:206:TRP:CE2	2.44	0.52
25:W2:117:LEU:HB2	25:W2:153:TRP:HE1	1.75	0.52
28:Z1:401:THR:HA	30:b1:252:ALA:CA	2.40	0.52
28:Z2:70:TYR:HA	28:Z2:80:THR:O	2.10	0.52
28:Z3:526:ARG:CB	30:b3:206:ASN:C	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:539:GLU:OE1	30:b3:163:ASP:OD1	2.17	0.52
28:Z3:554:PHE:O	30:b3:233:TRP:O	1.89	0.52
28:Z3:554:PHE:HE2	30:b3:234:LEU:HD23	1.74	0.52
30:b1:138:ASN:HD22	30:b1:161:GLY:HA2	1.74	0.52
31:c1:330:LYS:HB2	31:c1:333:LEU:HD12	1.92	0.52
1:A3:1083:SER:O	6:D3:794:THR:O	2.28	0.52
1:A3:1162:ASN:CA	3:A6:649:GLY:H	2.22	0.52
1:A3:1220:PRO:HG2	2:A4:672:ARG:HH11	1.74	0.52
1:A3:1230:TYR:CD2	3:A6:605:TYR:CG	2.98	0.52
2:A4:85:VAL:CG1	3:A6:395:MET:CA	2.88	0.52
2:A4:717:VAL:HG21	3:A6:403:ARG:NH2	2.15	0.52
2:A4:911:TYR:CZ	6:D3:555:ARG:NH2	2.61	0.52
8:F2:835:ILE:O	8:F2:835:ILE:HG13	2.09	0.52
11:I1:875:ARG:O	17:O1:248:SER:HB2	2.10	0.52
11:I1:957:SER:C	20:R1:168:LEU:HD21	2.20	0.52
11:I1:1041:GLN:N	15:M1:620:VAL:HG23	2.22	0.52
11:I1:1063:GLN:O	16:N1:428:ASP:CG	2.50	0.52
11:I1:1104:LEU:CD1	16:N1:433:GLU:CA	2.68	0.52
11:I1:1668:HIS:HB3	11:I2:1668:HIS:O	2.10	0.52
11:I2:877:ILE:HD11	17:O3:254:ARG:HG2	1.91	0.52
11:I2:936:LYS:CE	15:M3:612:PRO:HG2	2.40	0.52
11:I3:842:ASN:OD1	11:I3:843:GLU:N	2.43	0.52
21:S1:685:PRO:O	21:S2:1148:TYR:O	2.28	0.52
21:S4:950:HIS:CE1	21:S4:995:MET:HE1	2.45	0.52
22:T1:818:TYR:CZ	22:T1:861:LEU:HD21	2.45	0.52
23:U1:24:ILE:CA	31:c2:563:ARG:HD3	2.34	0.52
23:U1:202:LEU:CB	31:c1:633:PHE:H	1.86	0.52
23:U3:431:ILE:HD12	23:U3:431:ILE:H	1.75	0.52
24:V1:524:ASN:O	24:V1:528:LEU:HG	2.10	0.52
24:V2:682:ALA:O	31:c2:54:ASN:OD1	2.27	0.52
24:V3:389:THR:O	24:V3:393:GLY:HA3	2.10	0.52
26:X2:192:LEU:CD2	34:i:443:THR:HG22	2.40	0.52
26:X2:197:VAL:CG2	34:i:441:LEU:C	2.82	0.52
26:X2:317:PHE:N	34:i:400:LYS:NZ	2.58	0.52
26:X2:329:ARG:O	34:i:476:LEU:HA	2.10	0.52
27:Y3:53:ALA:HB1	27:Y3:84:TRP:CZ2	2.44	0.52
28:Z1:554:PHE:HE2	30:b1:234:LEU:HD23	1.74	0.52
28:Z2:400:LYS:HB3	30:b2:205:ARG:NH2	2.25	0.52
28:Z3:525:LEU:O	30:b3:208:ASN:ND2	2.25	0.52
28:Z4:400:LYS:HB3	30:b4:205:ARG:NH2	2.25	0.52
30:b2:143:ALA:CB	30:b2:192:PHE:HD2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b4:102:LEU:O	30:b4:113:LEU:HD12	2.10	0.52
31:c5:330:LYS:HB2	31:c5:333:LEU:HD12	1.92	0.52
1:A1:1331:GLU:OE1	2:A2:857:LYS:NZ	2.39	0.52
2:A2:225:THR:N	6:D1:709:ARG:NE	2.57	0.52
2:A2:1122:LEU:HD13	3:A5:135:PHE:CE2	2.43	0.52
1:A3:1183:LEU:C	3:A6:639:ASN:HA	2.34	0.52
1:A3:1228:TYR:CB	3:A6:576:VAL:HG21	2.22	0.52
1:A3:1239:ALA:N	3:A6:583:LEU:C	2.53	0.52
1:A3:1241:ARG:CG	3:A6:597:GLU:OE1	2.58	0.52
1:A3:1263:ILE:O	3:A6:712:THR:O	2.28	0.52
1:A3:1393:THR:OG1	3:A6:229:SER:CB	2.57	0.52
2:A4:685:ARG:NH1	3:A6:432:VAL:CG2	1.76	0.52
2:A4:770:GLY:HA3	3:A6:469:PHE:CD2	1.85	0.52
2:A4:855:THR:CG2	3:A6:168:ASP:O	2.42	0.52
2:A4:872:ALA:HB1	6:D3:565:MET:HE3	0.53	0.52
3:A5:161[A]:ASP:O	5:C2:744:PHE:HB3	2.10	0.52
3:A5:186:ILE:HD12	5:C2:744:PHE:C	2.34	0.52
3:A5:186:ILE:C	5:C2:745:SER:HA	2.32	0.52
3:A5:999:SER:O	11:I5:64:LYS:HG3	2.08	0.52
3:A5:1027:HIS:CG	11:I5:67:LYS:HG3	2.45	0.52
3:A6:115:SER:CB	6:D3:683:LYS:CG	2.88	0.52
3:A6:446:LEU:HG	6:D3:730:ARG:CG	2.36	0.52
3:A6:1394:VAL:HG23	28:Z4:913:ILE:C	2.34	0.52
6:D5:237:PRO:CD	31:c3:552:ARG:NH1	2.65	0.52
8:F1:1267:ARG:NH2	17:O2:268:GLY:CA	2.73	0.52
9:G1:252:LEU:O	15:M2:602:MET:CB	2.56	0.52
11:I1:1013:GLU:C	16:N1:412:ASN:HA	2.33	0.52
11:I1:1326:GLU:OE1	12:J1:251:TYR:CE2	2.63	0.52
11:I2:842:ASN:OD1	11:I2:843:GLU:N	2.43	0.52
11:I2:879:VAL:H	17:O3:251:ILE:HB	1.74	0.52
11:I2:942:HIS:CG	17:O3:259:ASP:HA	2.45	0.52
11:I2:951:LYS:HE2	16:N3:404:GLU:HG3	1.92	0.52
11:I2:1050:SER:O	17:O3:290:TYR:CA	2.58	0.52
11:I3:1267:LEU:CD1	26:X1:529:TRP:HA	2.27	0.52
11:I3:1425:TYR:OH	11:I3:1482:ASP:OD2	2.23	0.52
17:O4:113:PRO:O	18:P4:325:ILE:CG2	2.58	0.52
21:S1:681:SER:N	21:S2:1122:VAL:HG12	2.02	0.52
21:S1:1015:GLU:CD	21:S1:1041:ARG:HH21	2.18	0.52
21:S3:678:GLU:CB	21:S4:1144:LEU:N	2.57	0.52
21:S3:1036:ILE:HD11	21:S3:1073:ILE:HA	1.92	0.52
21:S4:1045:GLU:HG2	21:S4:1099:SER:OG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:910:MET:O	22:T1:914:GLN:HG3	2.10	0.52
22:T2:854:LEU:HB2	22:T2:891:VAL:HG11	1.92	0.52
22:T3:891:VAL:O	22:T3:891:VAL:CG1	2.58	0.52
22:T4:760:PHE:HD1	22:T4:864:ILE:HD11	1.74	0.52
23:U1:157:ASP:HB3	24:V1:355:ILE:HG21	1.92	0.52
23:U2:391:HIS:CE1	31:c4:477:GLU:O	2.55	0.52
23:U2:398:ILE:C	31:c4:530:SER:O	2.50	0.52
23:U2:432:TYR:CG	31:c4:539:ILE:HD12	2.38	0.52
23:U2:440:ASP:H	31:c4:428:ARG:NE	1.84	0.52
24:V3:520:ARG:HH21	24:V3:542:GLN:HE21	1.58	0.52
24:V4:389:THR:O	24:V4:393:GLY:HA3	2.10	0.52
27:Y1:53:ALA:HB1	27:Y1:84:TRP:CZ2	2.44	0.52
28:Z1:532:PHE:H	30:b1:184:SER:HA	1.73	0.52
28:Z3:521:SER:OG	30:b3:238:ASN:CB	2.57	0.52
30:b1:51:PRO:C	30:b1:53:SER:H	2.18	0.52
30:b4:83:GLU:HA	30:b4:96:PRO:HA	1.92	0.52
31:c4:434:LEU:HD23	31:c4:524:CYS:SG	2.50	0.52
1:A1:870:HIS:HB2	6:D3:279:HIS:O	1.97	0.51
1:A1:1220:PRO:C	2:A2:646:ILE:CA	2.83	0.51
2:A2:1055:ARG:CA	6:D2:762:ARG:HB3	2.39	0.51
1:A3:1168:LEU:HD21	3:A6:639:ASN:O	1.78	0.51
1:A3:1185:THR:CG2	3:A6:639:ASN:O	2.55	0.51
1:A3:1186:TRP:CD1	3:A6:639:ASN:C	2.86	0.51
1:A3:1188:ASN:C	3:A6:645:PHE:CG	2.75	0.51
2:A4:676:LEU:HD13	3:A6:95:TYR:HE2	1.73	0.51
2:A4:854:VAL:HG21	3:A6:171:HIS:CG	2.45	0.51
2:A4:899:THR:OG1	3:A6:180:GLU:HG3	1.97	0.51
3:A5:1031:TYR:H	11:I5:67:LYS:CB	2.22	0.51
6:D1:371:LEU:HD12	6:D1:372:ARG:N	2.26	0.51
6:D4:610:ASN:O	6:D4:614:SER:N	2.43	0.51
6:D4:649:VAL:HG11	6:D4:660:LYS:HA	1.92	0.51
11:I1:878:GLN:NE2	17:O1:252:VAL:HG11	2.25	0.51
11:I1:912:VAL:H	15:M1:584:GLN:HE22	1.55	0.51
11:I1:921:GLU:OE1	16:N1:392:THR:C	2.53	0.51
11:I1:955:LYS:CD	16:N1:401:THR:H	1.84	0.51
11:I1:1036:PRO:CA	15:M1:623:LEU:O	2.58	0.51
11:I2:890:TYR:HA	17:O3:238:ALA:O	2.09	0.51
11:I2:894:VAL:CA	17:O3:239:GLN:HG2	2.40	0.51
11:I2:934:LEU:CD1	15:M3:603:SER:N	2.35	0.51
11:I2:957:SER:CB	20:R3:167:GLN:C	2.77	0.51
11:I2:958:THR:CA	20:R3:168:LEU:CD2	2.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1018:LYS:HE3	16:N3:413:VAL:C	2.34	0.51
11:I2:1186:PRO:CG	17:O4:225:GLN:HE22	2.03	0.51
11:I2:1608:SER:O	12:J1:299:GLY:CA	2.59	0.51
11:I3:1644:ARG:CZ	12:J3:275:PHE:CE2	2.93	0.51
17:O4:106:HIS:C	18:P4:318:PRO:HG3	2.36	0.51
17:O4:106:HIS:C	18:P4:318:PRO:CG	2.77	0.51
21:S1:969:THR:HA	22:T1:879:ASP:OD1	2.09	0.51
21:S1:1070:LYS:NZ	21:S1:1121:GLU:HB3	2.26	0.51
21:S2:988:LEU:O	21:S2:992:ILE:HG22	2.11	0.51
21:S2:1015:GLU:CD	21:S2:1041:ARG:HH21	2.18	0.51
21:S3:1083:TRP:HA	21:S3:1083:TRP:HE3	1.73	0.51
22:T2:773:LYS:HG3	22:T2:774:PRO:HD2	1.92	0.51
22:T2:891:VAL:O	22:T2:891:VAL:CG1	2.58	0.51
22:T3:738:ALA:HA	22:T3:833:ARG:HG2	1.92	0.51
23:U2:8:GLN:C	23:U2:10:GLU:N	2.68	0.51
23:U3:278:GLN:HB3	25:W4:187:TYR:OH	2.09	0.51
24:V1:178:THR:HG21	24:V1:485:ALA:HB2	1.91	0.51
24:V1:379:GLU:OE2	31:c1:30:PHE:CZ	2.63	0.51
26:X2:192:LEU:CG	34:i:442:SER:OG	2.57	0.51
26:X2:204:PHE:CE1	34:i:440:GLU:O	2.63	0.51
26:X2:361:LEU:HD11	34:i:441:LEU:HD12	1.90	0.51
28:Z2:438:GLU:CG	30:b2:333:HIS:HE1	2.16	0.51
28:Z4:500:GLU:HB2	28:Z4:507:PHE:CZ	2.45	0.51
28:Z4:526:ARG:HA	30:b4:206:ASN:ND2	2.23	0.51
1:A1:1198:GLU:O	2:A2:729:SER:O	2.28	0.51
1:A1:1400:SER:CA	2:A2:885:LEU:HD21	2.40	0.51
2:A2:198:VAL:O	4:B2:353:LEU:CB	2.58	0.51
2:A2:863:GLN:HA	6:D1:603:SER:O	2.10	0.51
2:A2:982:THR:HG23	6:D1:497:PHE:H	0.46	0.51
2:A2:985:ALA:HA	6:D1:498:GLU:HA	1.92	0.51
1:A3:785:ILE:HD11	1:A3:825:ARG:CG	2.38	0.51
1:A3:1189:LEU:N	3:A6:641:ALA:C	2.37	0.51
1:A3:1201:ARG:O	2:A4:734:LEU:N	2.43	0.51
1:A3:1229:VAL:HG23	3:A6:574:ARG:HB3	1.91	0.51
2:A4:86:ASN:CB	3:A6:393:HIS:CA	2.71	0.51
2:A4:235:TYR:CD1	4:B4:347:LEU:CB	2.76	0.51
2:A4:556:PRO:HB3	3:A6:454:GLN:HB3	1.91	0.51
2:A4:556:PRO:HG3	3:A6:454:GLN:CB	2.40	0.51
2:A4:642:ARG:CB	3:A6:501:VAL:HB	2.34	0.51
2:A4:678:LEU:O	3:A6:431:PHE:CG	2.63	0.51
2:A4:727:ASN:CB	3:A6:548:LEU:HD11	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:861:GLN:HE22	6:D3:607:PRO:HA	1.70	0.51
2:A4:878:LEU:HD22	6:D3:607:PRO:CA	2.30	0.51
3:A5:189:VAL:HG11	5:C2:742:ASP:H	1.75	0.51
3:A5:1405:LEU:H	28:Z2:918:PHE:N	1.64	0.51
3:A6:517:ILE:HG23	6:D3:683:LYS:HB2	1.92	0.51
3:A6:1366:LEU:HD13	28:Z4:911:GLU:CB	2.41	0.51
6:D3:371:LEU:HD12	6:D3:372:ARG:N	2.25	0.51
6:D5:649:VAL:HG11	6:D5:660:LYS:HA	1.92	0.51
6:D6:371:LEU:HD12	6:D6:372:ARG:N	2.26	0.51
6:D6:798:MET:HB3	22:T3:769:SER:CA	2.38	0.51
8:F1:835:ILE:O	8:F1:835:ILE:HG13	2.09	0.51
8:F1:1203:TRP:HH2	17:O2:247:TRP:C	2.19	0.51
11:I1:833:PHE:O	17:O1:241:SER:CB	2.54	0.51
11:I1:1052:LEU:O	17:O1:283:ALA:O	2.26	0.51
11:I2:881:ILE:HG22	17:O3:249:ARG:NE	2.25	0.51
11:I2:931:VAL:HA	15:M3:600:ASN:O	2.09	0.51
11:I2:945:LEU:HA	17:O3:255:GLY:C	2.29	0.51
11:I2:1029:LEU:H	20:R3:172:ASP:N	2.08	0.51
11:I2:1046:HIS:N	17:O3:280:GLU:O	2.43	0.51
11:I2:1047:CYS:CA	17:O3:287:LEU:HD22	2.40	0.51
11:I3:401:GLN:N	11:I3:401:GLN:OE1	2.44	0.51
11:I5:401:GLN:N	11:I5:401:GLN:OE1	2.44	0.51
15:M4:494:GLU:OE2	15:M4:497:ARG:NH2	2.42	0.51
18:P1:278:ASN:HA	18:P4:322:LYS:C	2.28	0.51
21:S1:245:LEU:HD22	21:S1:304:GLU:CD	2.34	0.51
21:S1:622:GLY:O	21:S1:623:ARG:O	2.27	0.51
21:S3:1045:GLU:HG2	21:S3:1099:SER:OG	2.10	0.51
21:S4:1036:ILE:HD11	21:S4:1073:ILE:HA	1.92	0.51
22:T1:751:ARG:C	31:c5:58:ARG:HE	2.18	0.51
22:T1:832:VAL:CG2	31:c5:23:ARG:NH1	2.72	0.51
22:T2:685:ARG:HH21	22:T2:716:PRO:HG2	1.75	0.51
22:T2:760:PHE:HD1	22:T2:864:ILE:HD11	1.74	0.51
22:T2:770:VAL:HB	22:T2:802:TRP:CZ2	2.45	0.51
23:U1:431:ILE:HD12	23:U1:431:ILE:H	1.74	0.51
23:U2:75:TRP:HE3	31:c4:556:GLN:OE1	1.93	0.51
23:U2:82:LEU:HD13	31:c4:554:LEU:N	2.23	0.51
24:V2:524:ASN:O	24:V2:528:LEU:HG	2.10	0.51
24:V2:526:HIS:C	24:V2:528:LEU:N	2.68	0.51
26:X2:311:LEU:N	34:i:401:CYS:O	2.43	0.51
28:Z2:438:GLU:CB	30:b2:333:HIS:HE1	2.22	0.51
28:Z2:466:TYR:HB3	28:Z2:470:ILE:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:561:GLN:CG	30:b2:235:LEU:HD23	2.35	0.51
28:Z4:466:TYR:HB3	28:Z4:470:ILE:HB	1.92	0.51
28:Z4:539:GLU:OE1	30:b4:163:ASP:OD1	2.17	0.51
30:b2:138:ASN:HD22	30:b2:161:GLY:HA2	1.74	0.51
30:b3:143:ALA:CB	30:b3:192:PHE:HD2	2.23	0.51
30:b4:133:HIS:CD2	30:b4:167:ILE:HD12	2.46	0.51
31:c3:599:MET:HE2	31:c3:656:ILE:HB	1.92	0.51
31:c4:464:LEU:HD12	31:c4:465:PRO:HD2	1.91	0.51
31:c4:599:MET:HE2	31:c4:656:ILE:HB	1.91	0.51
1:A3:1188:ASN:ND2	3:A6:646:ILE:CD1	2.73	0.51
1:A3:1282:PHE:CD1	3:A6:625:LEU:HB2	2.44	0.51
2:A4:670:SER:CB	3:A6:542:LEU:HD22	2.36	0.51
2:A4:682:ARG:CZ	3:A6:105:GLY:HA3	2.26	0.51
2:A4:688:TRP:HE1	3:A6:394:LEU:CB	2.12	0.51
2:A4:713:ILE:HG23	3:A6:403:ARG:NH1	2.26	0.51
2:A4:717:VAL:HG13	3:A6:474:GLY:O	2.11	0.51
2:A4:726:ALA:HA	3:A6:575:LEU:CD2	2.40	0.51
2:A4:775:LEU:HG	3:A6:478:ASP:C	2.35	0.51
2:A4:857:LYS:HD3	3:A6:129:ASN:N	2.23	0.51
2:A4:1344:ALA:O	2:A4:1345:SER:CB	2.59	0.51
6:D5:371:LEU:HD12	6:D5:372:ARG:N	2.25	0.51
8:F1:982:PRO:HB2	11:I1:1388:GLU:CD	2.35	0.51
8:F2:1066:ALA:HB3	8:F2:1067:PRO:HD3	1.91	0.51
9:G1:254:ASN:ND2	17:O2:261:LYS:HE2	2.23	0.51
9:G1:263:MET:HE2	16:N2:411:GLN:CG	2.31	0.51
11:I1:878:GLN:HA	17:O1:249:ARG:O	2.04	0.51
11:I1:990:GLU:CB	17:O1:275:LEU:HD23	2.24	0.51
11:I1:1052:LEU:CA	17:O1:287:LEU:CD1	2.89	0.51
11:I2:790:LEU:HD21	17:O3:251:ILE:HD13	1.91	0.51
11:I2:849:LEU:CD1	17:O3:247:TRP:CZ3	2.94	0.51
11:I2:890:TYR:HB2	17:O3:242:ARG:N	2.19	0.51
11:I2:956:ILE:HA	20:R3:166:LEU:HD22	1.92	0.51
11:I2:1046:HIS:N	15:M3:619:ILE:CD1	2.40	0.51
11:I5:1644:ARG:HD3	12:J5:275:PHE:CE1	2.45	0.51
17:O4:107:THR:HA	18:P4:318:PRO:HD3	1.91	0.51
21:S2:1070:LYS:NZ	21:S2:1121:GLU:HB3	2.26	0.51
21:S3:600:GLN:N	21:S4:1155:GLN:O	2.33	0.51
21:S3:684:THR:HA	21:S4:1147:ASN:C	2.35	0.51
21:S3:969:THR:HA	22:T3:879:ASP:OD1	2.09	0.51
22:T1:815:GLU:HG2	31:c5:85:ARG:NH1	2.25	0.51
22:T4:818:TYR:CZ	22:T4:861:LEU:HD21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:22:PHE:HB3	31:c4:483:ASP:HB3	1.87	0.51
23:U2:40:ARG:NH1	31:c4:560:ASN:HB3	1.94	0.51
23:U2:157:ASP:HB3	24:V2:355:ILE:HG21	1.92	0.51
23:U3:157:ASP:HB3	24:V3:355:ILE:HG21	1.92	0.51
24:V2:389:THR:O	24:V2:393:GLY:HA3	2.10	0.51
24:V2:633:THR:N	31:c2:85:ARG:NH2	2.56	0.51
26:X2:284:ALA:HA	34:i:479:THR:CA	2.24	0.51
26:X2:309:LEU:HD21	34:i:396:HIS:CB	2.31	0.51
26:X2:369:GLU:OE2	34:i:428:LEU:HD23	2.01	0.51
28:Z3:58:ASN:HB3	28:Z3:70:TYR:CZ	2.46	0.51
28:Z3:401:THR:HA	30:b3:252:ALA:CA	2.40	0.51
30:b1:83:GLU:HA	30:b1:96:PRO:HA	1.92	0.51
30:b3:83:GLU:HA	30:b3:96:PRO:HA	1.93	0.51
30:b3:133:HIS:CD2	30:b3:167:ILE:HD12	2.46	0.51
30:b3:337:GLY:HA3	30:b3:358:MET:O	2.11	0.51
30:b4:51:PRO:C	30:b4:53:SER:H	2.18	0.51
31:c3:330:LYS:HB2	31:c3:333:LEU:HD12	1.92	0.51
31:c5:19:THR:HB	31:c5:24:GLN:HG2	1.91	0.51
1:A1:862:LEU:CD1	1:A1:904:GLN:HB3	2.41	0.51
1:A1:1399:ARG:CZ	2:A2:888:GLN:CG	2.87	0.51
2:A2:1131:ILE:CG2	3:A5:138:LEU:CG	2.62	0.51
2:A2:1141:GLU:CD	3:A5:563:THR:OG1	2.51	0.51
2:A2:1228:TYR:O	2:A2:1232:SER:OG	2.29	0.51
1:A3:1189:LEU:HD12	3:A6:583:LEU:CD2	2.40	0.51
1:A3:1201:ARG:O	2:A4:732:GLN:C	2.23	0.51
1:A3:1332:ARG:HB2	3:A6:127:HIS:HE2	1.68	0.51
2:A4:669:LEU:HD21	3:A6:541:PRO:HD2	1.91	0.51
2:A4:672:ARG:HB3	3:A6:96:PRO:N	2.25	0.51
2:A4:713:ILE:N	3:A6:490:PHE:CD2	2.66	0.51
2:A4:735:ALA:N	3:A6:92:ASP:CG	2.64	0.51
2:A4:778:PHE:CD2	3:A6:524:ARG:NH1	2.78	0.51
2:A4:798:LYS:CG	3:A6:314:TRP:HE1	2.24	0.51
2:A4:947:LYS:HZ1	3:A6:220:VAL:CA	2.24	0.51
2:A4:1228:TYR:O	2:A4:1232:SER:OG	2.29	0.51
3:A5:1395:LYS:CA	28:Z2:870:ILE:O	2.56	0.51
3:A6:1385:GLU:HB3	28:Z4:907:LEU:CB	2.40	0.51
6:D3:649:VAL:HG11	6:D3:660:LYS:HA	1.93	0.51
8:F1:982:PRO:HG2	11:I1:1388:GLU:HG2	1.91	0.51
8:F1:1832:ASN:N	8:F1:1835:GLU:OE2	2.44	0.51
8:F2:1165:VAL:HG12	8:F2:1166:GLY:H	1.76	0.51
11:I1:842:ASN:OD1	15:M1:587:GLU:OE2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:881:ILE:O	17:O1:249:ARG:CD	2.23	0.51
11:I1:888:GLU:HA	16:N1:390:GLU:HG3	1.93	0.51
11:I2:934:LEU:HD13	15:M3:603:SER:N	1.79	0.51
11:I2:1031:ALA:C	20:R3:173:LEU:O	2.53	0.51
11:I2:1045:PHE:CA	15:M3:619:ILE:HD12	2.37	0.51
11:I2:1068:HIS:CE1	16:N3:431:VAL:HG21	2.46	0.51
11:I5:1644:ARG:CZ	12:J5:275:PHE:CE2	2.93	0.51
17:O3:148:ARG:HH11	18:P3:325:ILE:HG22	1.56	0.51
21:S1:988:LEU:O	21:S1:992:ILE:HG22	2.10	0.51
21:S3:353:VAL:HG22	21:S3:374:THR:HG22	1.91	0.51
21:S3:1036:ILE:CD1	21:S3:1073:ILE:HA	2.41	0.51
21:S3:1070:LYS:NZ	21:S3:1121:GLU:HB3	2.26	0.51
21:S4:622:GLY:O	21:S4:623:ARG:O	2.27	0.51
23:U2:38:ILE:HD11	31:c4:531:TRP:HZ2	0.55	0.51
24:V3:524:ASN:O	24:V3:528:LEU:HG	2.10	0.51
24:V3:526:HIS:C	24:V3:528:LEU:N	2.68	0.51
24:V4:526:HIS:C	24:V4:528:LEU:N	2.68	0.51
28:Z3:70:TYR:HA	28:Z3:80:THR:O	2.10	0.51
28:Z3:527:SER:CA	30:b3:204:GLU:CG	2.59	0.51
28:Z3:534:ASP:OD2	30:b3:183:LEU:CA	2.53	0.51
30:b1:102:LEU:O	30:b1:113:LEU:HD12	2.10	0.51
30:b2:51:PRO:C	30:b2:53:SER:H	2.18	0.51
30:b2:212:PHE:HE1	30:b2:233:TRP:CE3	2.29	0.51
30:b3:78:SER:OG	30:b3:144:ASP:OD2	2.27	0.51
30:b3:384:ARG:HE	30:b3:389:THR:CG2	2.24	0.51
31:c1:434:LEU:HD23	31:c1:524:CYS:SG	2.50	0.51
31:c1:544:VAL:O	31:c1:548:VAL:HG23	2.10	0.51
31:c3:434:LEU:HD23	31:c3:524:CYS:SG	2.50	0.51
2:A2:1129:PRO:CA	3:A5:139:ASN:O	2.57	0.51
1:A3:1251:VAL:H	3:A6:633:MET:CA	2.24	0.51
1:A3:1263:ILE:HG23	3:A6:712:THR:HA	1.92	0.51
2:A4:678:LEU:HD23	3:A6:431:PHE:CB	2.40	0.51
2:A4:765:GLU:CG	3:A6:559:PHE:HZ	2.20	0.51
2:A4:789:LEU:CG	3:A6:145:THR:O	2.58	0.51
2:A4:876:ARG:NE	6:D3:558:LYS:C	2.62	0.51
2:A4:970:PHE:CE1	6:D3:192:TYR:HE1	2.28	0.51
2:A4:1055:ARG:CG	6:D4:762:ARG:CA	2.87	0.51
3:A5:1395:LYS:CB	28:Z2:870:ILE:O	2.59	0.51
3:A6:1375:THR:HG22	28:Z4:826:TYR:HA	1.91	0.51
3:A6:1399:ARG:CD	28:Z4:965:TYR:HA	2.31	0.51
8:F2:795:GLU:OE1	8:F2:795:GLU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1095:TYR:CD2	17:O4:244:GLU:OE1	2.63	0.51
11:I1:401:GLN:N	11:I1:401:GLN:OE1	2.44	0.51
11:I1:877:ILE:CG2	17:O1:254:ARG:H	2.18	0.51
11:I1:883:ALA:HB3	17:O1:243:LEU:O	1.94	0.51
11:I1:925:LEU:HD12	15:M1:593:ALA:HB1	1.93	0.51
11:I1:940:LEU:HB2	17:O1:259:ASP:CA	2.41	0.51
11:I1:955:LYS:CD	17:O1:249:ARG:NH2	2.73	0.51
11:I1:963:LEU:C	20:R1:165:SER:OG	2.53	0.51
11:I1:1065:SER:CB	16:N1:431:VAL:HG23	2.41	0.51
11:I1:1605:LEU:HD13	11:I2:1669:ARG:HD2	0.63	0.51
11:I2:879:VAL:CB	17:O3:251:ILE:HD12	2.37	0.51
11:I2:884:LEU:HD11	15:M3:599:ILE:CG1	2.35	0.51
11:I2:931:VAL:N	15:M3:601:ASP:OD1	2.30	0.51
11:I2:947:LEU:C	17:O3:256:TYR:CD2	2.68	0.51
11:I2:955:LYS:HZ3	16:N3:400:LEU:CD1	2.14	0.51
11:I2:990:GLU:HA	17:O3:275:LEU:HB3	1.92	0.51
11:I2:1033:PRO:CG	20:R3:177:LEU:HD12	2.26	0.51
11:I2:1106:LYS:CA	16:N3:439:ARG:HH12	1.85	0.51
11:I2:1326:GLU:OE1	12:J2:251:TYR:CE2	2.63	0.51
11:I3:1272:TYR:CE2	26:X1:523:LEU:HB2	2.45	0.51
11:I4:401:GLN:N	11:I4:401:GLN:OE1	2.44	0.51
11:I4:1644:ARG:CZ	12:J4:275:PHE:CE2	2.93	0.51
17:O4:81:LEU:O	17:O4:85:LYS:HG2	2.10	0.51
21:S3:950:HIS:CE1	21:S3:995:MET:HE1	2.45	0.51
21:S3:988:LEU:O	21:S3:992:ILE:HG22	2.11	0.51
21:S4:946:LEU:HB3	21:S4:981:SER:HB3	1.93	0.51
21:S4:1015:GLU:CD	21:S4:1041:ARG:HH21	2.18	0.51
22:T1:755:GLU:OE2	31:c5:58:ARG:O	2.27	0.51
22:T1:760:PHE:HD1	22:T1:864:ILE:HD11	1.74	0.51
22:T1:770:VAL:HB	22:T1:802:TRP:CZ2	2.45	0.51
23:U1:21:GLU:HB2	31:c2:472:GLU:HA	0.51	0.51
23:U1:139:VAL:O	31:c1:501:GLU:N	2.38	0.51
23:U1:206:ILE:HG23	24:V1:336:LEU:HB3	1.91	0.51
23:U2:398:ILE:CD1	31:c4:555:VAL:HG13	2.41	0.51
23:U3:8:GLN:C	23:U3:10:GLU:N	2.68	0.51
23:U3:278:GLN:CD	25:W4:189:SER:O	2.53	0.51
24:V1:186:PHE:CD1	24:V1:487:LEU:HD11	2.46	0.51
26:X2:196:ASP:C	34:i:438:LEU:O	2.52	0.51
26:X2:198:GLU:O	34:i:365:VAL:HG12	2.10	0.51
26:X2:297:LYS:CD	34:i:446:LYS:HZ1	2.18	0.51
28:Z2:525:LEU:O	30:b2:208:ASN:ND2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:524:VAL:CG1	30:b4:236:THR:CA	2.84	0.51
30:b1:133:HIS:CD2	30:b1:167:ILE:HD12	2.46	0.51
30:b1:212:PHE:HE1	30:b1:233:TRP:CE3	2.29	0.51
30:b3:130:LYS:O	30:b3:134:HIS:NE2	2.41	0.51
31:c2:434:LEU:HD23	31:c2:524:CYS:SG	2.50	0.51
2:A2:1154:PHE:CD2	3:A5:175:GLU:OE2	2.56	0.51
1:A3:1201:ARG:N	2:A4:729:SER:C	2.67	0.51
1:A3:1325:MET:HE1	3:A6:125:VAL:HG23	1.91	0.51
2:A4:678:LEU:HD23	3:A6:431:PHE:HB2	1.91	0.51
2:A4:705:ILE:HB	3:A6:482:LYS:HG3	1.91	0.51
2:A4:760:LEU:CD2	3:A6:98:LEU:H	2.19	0.51
2:A4:794:GLN:C	3:A6:264:GLU:OE1	2.43	0.51
2:A4:861:GLN:CA	6:D3:606:LYS:NZ	2.71	0.51
2:A4:973:GLU:HG3	6:D3:192:TYR:CZ	2.46	0.51
3:A6:483:HIS:H	6:D3:675:ARG:HD3	1.76	0.51
3:A6:1410:ALA:CB	26:X4:686:ASP:N	2.74	0.51
6:D5:377:ARG:HA	31:c1:378:ASN:CG	2.36	0.51
9:G1:252:LEU:HD22	17:O2:254:ARG:NH2	2.25	0.51
11:I1:963:LEU:CD2	20:R1:176:ARG:NH2	2.62	0.51
11:I1:1029:LEU:CD1	16:N1:433:GLU:OE1	2.53	0.51
11:I1:1040:HIS:CB	15:M1:623:LEU:HD13	2.41	0.51
11:I1:1046:HIS:HB2	17:O1:280:GLU:HA	1.91	0.51
11:I1:1644:ARG:HD3	12:J1:275:PHE:CE1	2.45	0.51
11:I1:1674:HIS:CD2	11:I2:1635:HIS:HD2	2.29	0.51
11:I2:958:THR:HG1	16:N3:399:HIS:HD2	1.58	0.51
11:I2:1546:TRP:CB	12:J1:300:ILE:HD13	2.21	0.51
11:I2:1609:GLY:HA3	12:J1:295:TYR:CD1	2.46	0.51
11:I5:1326:GLU:OE1	12:J5:251:TYR:CE2	2.63	0.51
15:M3:494:GLU:OE2	15:M3:497:ARG:NH2	2.42	0.51
17:O2:107:THR:HG23	18:P2:321:ILE:HD13	1.92	0.51
21:S1:653:LEU:N	21:S2:1156:ILE:O	2.43	0.51
21:S4:934:HIS:C	21:S4:936:SER:H	2.18	0.51
21:S4:1070:LYS:NZ	21:S4:1121:GLU:HB3	2.26	0.51
22:T1:773:LYS:HG3	22:T1:774:PRO:HD2	1.92	0.51
22:T2:696:MET:HE3	22:T2:708:ALA:O	2.10	0.51
23:U1:38:ILE:HG12	31:c2:473:THR:C	2.31	0.51
23:U2:409:LYS:HB2	31:c4:542:LYS:HB2	1.92	0.51
25:W4:259:ARG:HB2	25:W4:272:SER:HB2	1.93	0.51
26:X2:199:GLU:CB	34:i:301:PRO:HG3	2.23	0.51
26:X2:306:TRP:C	34:i:416:VAL:O	2.51	0.51
26:X3:152:LEU:O	26:X3:156:GLU:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y3:117:ALA:HB3	27:Y3:124:LYS:HB3	1.93	0.51
27:Y3:219:SER:HG	27:Y3:312:TRP:HD1	1.59	0.51
28:Z1:407:GLY:C	30:b1:251:ILE:CG1	2.84	0.51
28:Z1:438:GLU:CB	30:b1:333:HIS:HE1	2.22	0.51
28:Z2:531:LYS:CD	30:b2:183:LEU:CB	2.71	0.51
28:Z3:410:ASN:CG	30:b3:252:ALA:HB2	2.23	0.51
28:Z3:523:ASP:HB2	30:b3:238:ASN:HA	0.72	0.51
28:Z4:190:ASP:OD2	28:Z4:191:GLY:N	2.44	0.51
28:Z4:522:ASN:OD1	30:b4:241:PRO:CG	2.40	0.51
29:a1:231[A]:HIS:H	29:a1:231[A]:HIS:CD2	2.28	0.51
30:b2:55:GLY:H	30:b2:384:ARG:NH1	2.09	0.51
30:b2:83:GLU:HA	30:b2:96:PRO:HA	1.92	0.51
30:b2:384:ARG:HE	30:b2:389:THR:CG2	2.24	0.51
30:b3:51:PRO:C	30:b3:53:SER:H	2.18	0.51
30:b3:102:LEU:O	30:b3:113:LEU:HD12	2.10	0.51
30:b4:114:ILE:HG23	30:b4:121:ILE:HG23	1.93	0.51
31:c5:434:LEU:HD23	31:c5:524:CYS:SG	2.50	0.51
32:g:312:GLU:CD	32:g:312:GLU:H	2.19	0.51
33:h:183:GLU:CG	33:h:194:LEU:HD22	2.41	0.51
1:A1:1399:ARG:CB	2:A2:888:GLN:OE1	2.58	0.51
2:A2:1139:ILE:HB	3:A5:135:PHE:CG	2.46	0.51
1:A3:790:ASP:OD1	1:A3:790:ASP:N	2.35	0.51
1:A3:1172:HIS:CB	3:A6:586:CYS:O	2.58	0.51
1:A3:1258:VAL:CA	3:A6:623:SER:CB	2.81	0.51
1:A3:1258:VAL:CA	3:A6:623:SER:HB3	2.41	0.51
2:A4:677:ALA:HB1	3:A6:392:LEU:HD12	1.92	0.51
2:A4:778:PHE:CD1	3:A6:466:ALA:CB	2.92	0.51
2:A4:779:ASP:OD1	6:D3:674:TYR:C	2.53	0.51
2:A4:798:LYS:CB	3:A6:264:GLU:OE2	2.48	0.51
2:A4:824:ASN:O	3:A6:134:VAL:C	2.53	0.51
2:A4:856:PHE:HB2	3:A6:167:TRP:NE1	2.21	0.51
2:A4:859:GLN:HB2	3:A6:131:PRO:N	2.15	0.51
2:A4:869:ALA:CB	6:D3:573:LEU:CD2	2.73	0.51
2:A4:896:ALA:HB2	3:A6:164:LEU:CG	2.25	0.51
2:A4:970:PHE:CG	6:D3:498:GLU:HB3	2.45	0.51
2:A4:980:ARG:HB3	2:A4:981:PRO:HD2	1.92	0.51
2:A4:987:LYS:NZ	6:D3:555:ARG:CG	2.74	0.51
2:A4:1151:THR:CG2	5:C4:734:VAL:O	2.57	0.51
3:A6:136:GLU:OE2	6:D3:602:THR:HB	2.10	0.51
3:A6:1364:GLN:O	28:Z4:877:ILE:N	2.31	0.51
3:A6:1394:VAL:HG23	28:Z4:911:GLU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:512:LEU:HB2	11:I3:181:GLN:N	2.25	0.51
11:I1:846:ILE:N	15:M1:591:ASP:OD1	2.44	0.51
11:I1:950:LEU:HD23	15:M1:606:LEU:CD2	2.40	0.51
11:I1:952:LEU:HD13	16:N1:400:LEU:HD22	1.80	0.51
11:I1:989:GLY:C	15:M1:614:ASP:OD1	2.52	0.51
11:I1:1048:GLU:HA	20:R1:143:PHE:HE1	1.67	0.51
11:I1:1546:TRP:HB3	12:J2:300:ILE:HD11	1.86	0.51
11:I2:931:VAL:C	15:M3:604:ASN:HB2	2.22	0.51
11:I2:955:LYS:HZ3	17:O3:249:ARG:NH2	2.06	0.51
11:I2:990:GLU:H	15:M3:611:LYS:HB3	1.74	0.51
11:I2:994:ALA:O	17:O3:270:THR:HB	2.10	0.51
11:I2:1029:LEU:HD11	16:N3:433:GLU:OE1	1.93	0.51
11:I2:1107:SER:CB	16:N3:436:ALA:O	2.58	0.51
11:I3:1034:ASP:OD1	11:I3:1035:GLN:N	2.44	0.51
11:I3:1269:ARG:CA	26:X1:524:SER:O	2.58	0.51
11:I4:816:ASP:OD1	11:I4:817:ASP:N	2.42	0.51
11:I4:1267:LEU:O	26:X3:528:GLU:OE2	2.28	0.51
21:S1:934:HIS:C	21:S1:936:SER:H	2.18	0.51
21:S1:946:LEU:HB3	21:S1:981:SER:HB3	1.93	0.51
21:S4:1120:PRO:CD	21:S4:1155:GLN:HE22	2.19	0.51
22:T1:696:MET:HE3	22:T1:708:ALA:O	2.10	0.51
23:U1:26:GLN:CG	31:c2:563:ARG:HG3	2.28	0.51
23:U4:157:ASP:HB3	24:V4:355:ILE:HG21	1.92	0.51
25:W1:138:PRO:HB2	25:W1:140:ILE:HD11	1.93	0.51
26:X1:152:LEU:O	26:X1:156:GLU:HG3	2.11	0.51
26:X2:324:ILE:HD11	34:i:476:LEU:CG	2.41	0.51
27:Y1:117:ALA:HB3	27:Y1:124:LYS:HB3	1.93	0.51
28:Z1:58:ASN:HB3	28:Z1:70:TYR:CZ	2.46	0.51
28:Z1:554:PHE:O	30:b1:233:TRP:O	1.89	0.51
28:Z2:58:ASN:HB3	28:Z2:70:TYR:CZ	2.46	0.51
28:Z2:561:GLN:CD	30:b2:235:LEU:CD2	2.84	0.51
28:Z4:401:THR:HA	30:b4:252:ALA:CA	2.40	0.51
28:Z4:535:ILE:HD11	30:b4:182:PRO:CG	2.41	0.51
31:c1:599:MET:HE2	31:c1:656:ILE:HB	1.92	0.51
31:c5:544:VAL:O	31:c5:548:VAL:HG23	2.10	0.51
2:A2:865:ALA:HA	6:D1:608:ILE:HG23	1.93	0.51
2:A2:907:SER:CB	6:D1:601:PHE:C	2.81	0.51
1:A3:1224:PRO:N	2:A4:734:LEU:HD22	2.21	0.51
1:A3:1261:TYR:CG	3:A6:621:GLN:CB	1.87	0.51
1:A3:1389:SER:HB3	3:A6:224:PRO:HB2	1.85	0.51
2:A4:496:THR:CB	3:A6:366:ALA:CB	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:537:ALA:N	3:A6:362:PHE:CE2	2.59	0.51
2:A4:724:LEU:CD2	3:A6:496:THR:N	2.65	0.51
2:A4:772:SER:O	3:A6:489:LEU:HD21	2.09	0.51
2:A4:1151:THR:C	5:C4:733:LEU:HD12	2.33	0.51
2:A4:1204:TRP:CZ2	2:A4:1223:GLU:HG3	2.46	0.51
3:A5:232:LEU:CB	5:C2:736:ASN:O	2.58	0.51
3:A5:1151:THR:CB	5:C5:733:LEU:HD12	2.41	0.51
3:A5:1375:THR:HG23	28:Z2:824:PHE:CB	2.39	0.51
3:A6:1370:ALA:CB	28:Z4:874:ASN:CB	2.88	0.51
6:D6:610:ASN:O	6:D6:614:SER:N	2.43	0.51
6:D7:531:LEU:N	11:I3:181:GLN:HG2	1.85	0.51
6:D7:649:VAL:HG11	6:D7:660:LYS:HA	1.92	0.51
8:F1:795:GLU:OE1	8:F1:795:GLU:N	2.42	0.51
11:I1:885:GLU:O	16:N1:397:GLU:OE1	2.28	0.51
11:I1:896:PRO:CA	17:O1:232:LYS:HB3	2.41	0.51
11:I1:920:PHE:CG	17:O1:243:LEU:HD22	2.46	0.51
11:I1:945:LEU:HB3	17:O1:259:ASP:CB	2.40	0.51
11:I1:956:ILE:CB	20:R1:166:LEU:HD22	2.38	0.51
11:I1:962:ILE:HG23	20:R1:166:LEU:O	2.10	0.51
11:I1:981:VAL:N	15:M1:621:ARG:HD2	1.97	0.51
11:I2:401:GLN:N	11:I2:401:GLN:OE1	2.44	0.51
11:I2:900:ARG:N	17:O3:232:LYS:CA	2.74	0.51
11:I2:977:ASN:HB2	20:R3:146:LEU:O	2.10	0.51
11:I2:982:GLN:O	15:M3:612:PRO:O	2.29	0.51
11:I2:988:GLU:O	15:M3:608:LYS:CD	2.59	0.51
11:I2:1029:LEU:HD23	20:R3:170:LEU:N	2.03	0.51
11:I2:1044:GLY:CA	17:O3:275:LEU:CD1	2.76	0.51
11:I4:460:GLN:OE1	11:I4:460:GLN:N	2.39	0.51
11:I4:1034:ASP:OD1	11:I4:1035:GLN:N	2.44	0.51
17:O2:81:LEU:O	17:O2:85:LYS:HG2	2.10	0.51
21:S1:1030:GLN:O	21:S1:1034:LEU:HB2	2.11	0.51
21:S1:1036:ILE:CD1	21:S1:1073:ILE:HA	2.41	0.51
22:T1:891:VAL:O	22:T1:891:VAL:CG1	2.58	0.51
23:U2:38:ILE:HD13	31:c4:555:VAL:HG13	1.92	0.51
23:U2:392:LEU:O	31:c4:538:LEU:HD11	2.10	0.51
23:U4:354:SER:O	23:U4:358:VAL:HG23	2.11	0.51
24:V1:389:THR:O	24:V1:393:GLY:HA3	2.10	0.51
24:V1:520:ARG:HH21	24:V1:542:GLN:HE21	1.58	0.51
24:V3:153:LYS:HA	25:W3:261:SER:CB	2.40	0.51
25:W4:138:PRO:HB2	25:W4:140:ILE:HD11	1.93	0.51
26:X2:290:GLU:HB3	34:i:492:TRP:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:309:LEU:HD21	34:i:396:HIS:CA	2.40	0.51
26:X2:369:GLU:H	34:i:438:LEU:HD23	1.75	0.51
26:X4:66:PRO:HA	27:Y4:308:TRP:CD1	2.46	0.51
27:Y4:10:ASP:HB3	27:Y4:29:SER:HB2	1.92	0.51
28:Z1:190:ASP:OD2	28:Z1:191:GLY:N	2.44	0.51
28:Z1:466:TYR:HB3	28:Z1:470:ILE:HB	1.92	0.51
28:Z1:535:ILE:HD11	30:b1:182:PRO:CG	2.41	0.51
28:Z2:190:ASP:OD2	28:Z2:191:GLY:N	2.44	0.51
28:Z2:521:SER:HG	30:b2:238:ASN:N	2.02	0.51
28:Z3:500:GLU:HB2	28:Z3:507:PHE:CZ	2.45	0.51
28:Z3:539:GLU:HA	30:b3:163:ASP:OD2	2.11	0.51
28:Z3:561:GLN:CD	30:b3:235:LEU:CD2	2.84	0.51
28:Z4:539:GLU:HA	30:b4:163:ASP:OD2	2.11	0.51
30:b1:384:ARG:HE	30:b1:389:THR:CG2	2.24	0.51
30:b4:337:GLY:HA3	30:b4:358:MET:O	2.11	0.51
31:c4:330:LYS:HB2	31:c4:333:LEU:HD12	1.92	0.51
2:A2:974:PRO:CD	6:D1:205:LEU:HG	2.28	0.51
2:A2:985:ALA:O	6:D1:500:LYS:HD3	2.11	0.51
2:A2:1125:LEU:HG	3:A5:132:ASP:O	2.04	0.51
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG2	2.41	0.51
1:A3:1195:PHE:C	3:A6:678:LEU:HB3	2.05	0.51
2:A4:602:ILE:HD11	3:A6:504:PRO:HB2	1.93	0.51
2:A4:683:LEU:C	3:A6:403:ARG:CZ	2.84	0.51
2:A4:710:LEU:HD23	3:A6:479:VAL:O	1.66	0.51
2:A4:777:LEU:CG	3:A6:526:ILE:CA	2.38	0.51
2:A4:865:ALA:HB1	6:D3:567:LEU:HD21	0.59	0.51
2:A4:908:LEU:O	6:D3:555:ARG:CG	2.58	0.51
2:A4:980:ARG:O	6:D3:496:LEU:CD1	2.55	0.51
3:A5:1374:ALA:HA	28:Z2:823:ALA:HB1	1.93	0.51
3:A6:1368:GLN:CG	28:Z4:875:LEU:HA	2.37	0.51
4:B5:345:LYS:C	5:C2:737:LYS:HD2	2.36	0.51
6:D4:371:LEU:HD12	6:D4:372:ARG:N	2.26	0.51
9:G2:258:LYS:HG2	17:O4:259:ASP:OD2	2.10	0.51
11:I1:935:GLY:HA2	15:M1:607:SER:N	2.25	0.51
11:I1:954:GLU:CB	16:N1:403:VAL:H	1.82	0.51
11:I1:964:SER:N	20:R1:165:SER:CB	2.73	0.51
11:I1:1021:ILE:HG13	16:N1:410:MET:CA	2.41	0.51
11:I1:1104:LEU:HD22	16:N1:437:VAL:HG23	1.92	0.51
11:I2:874:LEU:O	17:O3:252:VAL:C	2.53	0.51
11:I2:884:LEU:HD21	15:M3:599:ILE:HD11	1.92	0.51
11:I2:1035:GLN:HA	15:M3:626:HIS:HB3	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1041:GLN:CD	15:M3:617:THR:HG22	2.34	0.51
11:I2:1110:SER:HA	16:N3:438:LEU:CD1	2.35	0.51
11:I3:814:SER:O	26:X1:496:THR:HG23	2.09	0.51
15:M2:494:GLU:OE2	15:M2:497:ARG:NH2	2.42	0.51
21:S1:1036:ILE:HD11	21:S1:1073:ILE:HA	1.92	0.51
22:T3:862:HIS:NE2	22:T3:903:LYS:HB3	2.26	0.51
23:U1:440:ASP:C	31:c2:463:HIS:HD2	2.18	0.51
24:V4:153:LYS:HA	25:W4:261:SER:CB	2.41	0.51
24:V4:524:ASN:O	24:V4:528:LEU:HG	2.10	0.51
25:W2:138:PRO:HB2	25:W2:140:ILE:HD11	1.93	0.51
26:X3:156:GLU:HG2	26:X3:179:LEU:CD2	2.41	0.51
28:Z2:561:GLN:NE2	30:b2:237:LEU:CD1	2.60	0.51
28:Z3:526:ARG:HA	30:b3:206:ASN:ND2	2.23	0.51
28:Z3:535:ILE:HD11	30:b3:182:PRO:CG	2.41	0.51
28:Z4:531:LYS:HB3	28:Z4:553:ILE:HG12	1.93	0.51
30:b1:143:ALA:CB	30:b1:192:PHE:HD2	2.23	0.51
30:b2:102:LEU:O	30:b2:113:LEU:HD12	2.10	0.51
31:c1:464:LEU:HD12	31:c1:465:PRO:HD2	1.91	0.51
2:A2:869:ALA:C	6:D1:548:LEU:CD2	2.82	0.51
2:A2:1125:LEU:CD2	3:A5:137:HIS:H	2.24	0.51
1:A3:862:LEU:CD1	1:A3:904:GLN:HB3	2.41	0.51
1:A3:1191:ASN:ND2	3:A6:619:CYS:SG	2.83	0.51
1:A3:1228:TYR:CB	3:A6:574:ARG:HH21	2.20	0.51
1:A3:1229:VAL:HG23	3:A6:574:ARG:HG2	1.93	0.51
1:A3:1277:TRP:CD1	3:A6:556:PRO:HD3	2.46	0.51
1:A3:1396:GLY:HA3	3:A6:171:HIS:CD2	2.46	0.51
2:A4:554:GLN:HE21	3:A6:370:PRO:HD3	1.73	0.51
2:A4:771:ILE:HD11	3:A6:476:PHE:CG	2.45	0.51
2:A4:824:ASN:ND2	3:A6:158:ALA:CB	2.60	0.51
2:A4:828:ALA:C	6:D3:605:THR:OG1	2.51	0.51
2:A4:859:GLN:CB	3:A6:134:VAL:CB	2.77	0.51
2:A4:965:LYS:HD2	6:D3:199:GLY:C	2.36	0.51
2:A4:970:PHE:CE1	6:D3:192:TYR:CE1	2.97	0.51
3:A6:132:ASP:HB3	6:D3:604:ASP:C	2.36	0.51
3:A6:1399:ARG:CZ	28:Z4:968:ARG:CB	2.89	0.51
3:A6:1414:PHE:C	28:Z4:994:ILE:O	2.54	0.51
11:I1:945:LEU:CG	17:O1:254:ARG:O	2.57	0.51
11:I1:1034:ASP:CB	15:M1:630:LEU:HD13	2.29	0.51
11:I2:963:LEU:HD23	20:R3:168:LEU:HD12	1.91	0.51
11:I2:990:GLU:O	17:O3:271:GLU:CB	2.60	0.51
11:I2:1118:LEU:HD11	16:N3:432:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1276:GLN:NE2	26:X1:535:ALA:N	2.51	0.51
11:I4:717:GLU:OE1	11:I4:717:GLU:N	2.39	0.51
21:S3:1015:GLU:CD	21:S3:1041:ARG:HH21	2.18	0.51
21:S4:1036:ILE:CD1	21:S4:1073:ILE:HA	2.41	0.51
21:S4:1070:LYS:O	21:S4:1074:LEU:HD12	2.11	0.51
22:T1:854:LEU:HB2	22:T1:891:VAL:HG11	1.93	0.51
22:T1:862:HIS:NE2	22:T1:903:LYS:HB3	2.26	0.51
23:U1:26:GLN:HG3	31:c2:563:ARG:HG2	1.90	0.51
23:U1:401:PRO:HG3	31:c2:555:VAL:N	2.26	0.51
23:U1:430:PRO:HB3	31:c2:465:PRO:CB	2.28	0.51
23:U2:22:PHE:HA	31:c4:562:LEU:CB	2.41	0.51
24:V2:153:LYS:HA	25:W2:261:SER:CB	2.41	0.51
24:V2:435:LEU:O	24:V2:439:VAL:HG23	2.11	0.51
24:V3:186:PHE:CD1	24:V3:487:LEU:HD11	2.46	0.51
24:V3:281:ILE:HB	24:V3:301:LEU:HD21	1.93	0.51
25:W3:259:ARG:HB2	25:W3:272:SER:HB2	1.93	0.51
26:X1:66:PRO:HA	27:Y1:308:TRP:CD1	2.46	0.51
26:X2:283:ASP:H	34:i:15:GLN:CG	2.15	0.51
26:X2:301:SER:HB3	34:i:326:ILE:H	1.74	0.51
26:X3:66:PRO:HA	27:Y3:308:TRP:CD1	2.46	0.51
27:Y4:117:ALA:HB3	27:Y4:124:LYS:HB3	1.93	0.51
28:Z1:401:THR:CG2	30:b1:253:SER:C	2.78	0.51
28:Z1:500:GLU:HB2	28:Z1:507:PHE:CZ	2.45	0.51
28:Z1:555:LYS:HG3	30:b1:233:TRP:CE3	2.24	0.51
28:Z2:527:SER:C	30:b2:184:SER:HG	2.18	0.51
28:Z3:531:LYS:HB3	28:Z3:553:ILE:HG12	1.93	0.51
28:Z4:554:PHE:HE2	30:b4:234:LEU:HD23	1.74	0.51
28:Z4:555:LYS:HD2	30:b4:212:PHE:CE1	2.46	0.51
30:b3:55:GLY:H	30:b3:384:ARG:NH1	2.09	0.51
30:b3:114:ILE:HG23	30:b3:121:ILE:HG23	1.93	0.51
31:c3:464:LEU:HD12	31:c3:465:PRO:HD2	1.91	0.51
1:A1:1223:GLU:OE1	2:A2:734:LEU:HD11	2.11	0.50
2:A2:867:GLU:C	6:D1:598:ILE:CG2	2.79	0.50
2:A2:1135:ARG:NH1	3:A5:158:ALA:HB2	1.81	0.50
1:A3:1130:ARG:HH21	3:A6:651:GLN:HA	1.73	0.50
1:A3:1202:GLU:HG3	3:A6:89:LEU:C	2.36	0.50
1:A3:1233:GLN:O	3:A6:578:ILE:HG22	2.11	0.50
1:A3:1248:ILE:C	3:A6:587:VAL:HG22	2.36	0.50
1:A3:1392:ARG:H	3:A6:225:THR:C	2.19	0.50
2:A4:550:VAL:O	3:A6:455:LEU:HG	2.06	0.50
2:A4:611:ILE:CG2	3:A6:508:LEU:HD21	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:652:PRO:N	3:A6:542:LEU:CD1	2.67	0.50
2:A4:677:ALA:HB1	3:A6:98:LEU:CD2	2.41	0.50
2:A4:781:ARG:NH1	6:D3:674:TYR:HE1	2.08	0.50
2:A4:857:LYS:NZ	3:A6:129:ASN:CB	2.73	0.50
2:A4:988:ARG:NH2	6:D3:498:GLU:C	2.69	0.50
3:A5:220:VAL:CG2	5:C2:738:ASP:C	2.72	0.50
3:A5:1369:ILE:HG12	28:Z2:831:LEU:CA	2.28	0.50
6:D3:646:LEU:HD22	6:D3:696:ILE:CD1	2.41	0.50
6:D6:649:VAL:HG11	6:D6:660:LYS:HA	1.92	0.50
9:G2:258:LYS:HD3	17:O4:259:ASP:OD2	2.10	0.50
11:I1:838:GLU:N	17:O1:240:GLY:CA	2.68	0.50
11:I1:1033:PRO:C	16:N1:441:PHE:HE1	2.03	0.50
11:I1:1054:ILE:C	17:O1:280:GLU:C	2.75	0.50
11:I1:1108:PRO:HB2	16:N1:442:GLU:CB	2.41	0.50
11:I2:877:ILE:CA	17:O3:254:ARG:HB2	2.31	0.50
11:I2:951:LYS:HD3	16:N3:405:ALA:H	1.76	0.50
11:I2:994:ALA:CB	17:O3:268:GLY:C	2.84	0.50
11:I2:997:SER:HG	16:N3:427:VAL:N	2.09	0.50
15:M1:494:GLU:OE2	15:M1:497:ARG:NH2	2.42	0.50
17:O3:162:LYS:HG3	18:P3:315:GLU:CB	2.38	0.50
21:S1:666:THR:O	21:S2:1146:ALA:C	2.48	0.50
21:S2:1030:GLN:O	21:S2:1034:LEU:HB2	2.11	0.50
21:S3:1070:LYS:O	21:S3:1074:LEU:HD12	2.11	0.50
21:S4:1052:LEU:HD21	21:S4:1073:ILE:CD1	2.32	0.50
22:T1:819:ASN:C	31:c5:57:GLU:OE2	2.54	0.50
22:T2:862:HIS:NE2	22:T2:903:LYS:HB3	2.26	0.50
22:T4:773:LYS:HG3	22:T4:774:PRO:HD2	1.92	0.50
23:U1:398:ILE:CA	31:c2:476:PRO:CG	2.84	0.50
23:U2:75:TRP:CZ2	31:c4:476:PRO:HD2	2.38	0.50
24:V2:526:HIS:C	24:V2:530:ARG:HD2	2.37	0.50
24:V4:281:ILE:HB	24:V4:301:LEU:HD21	1.93	0.50
25:W1:57:TRP:HD1	25:W1:102:VAL:O	1.94	0.50
25:W2:62:ALA:HB2	25:W2:107:TRP:CE2	2.46	0.50
25:W3:117:LEU:HB2	25:W3:153:TRP:HE1	1.75	0.50
25:W4:117:LEU:HB2	25:W4:153:TRP:HE1	1.75	0.50
26:X2:156:GLU:HG2	26:X2:179:LEU:CD2	2.41	0.50
26:X2:302:THR:HA	34:i:333:LEU:HD22	1.93	0.50
26:X4:156:GLU:HG2	26:X4:179:LEU:CD2	2.41	0.50
28:Z1:531:LYS:HZ1	30:b1:166:LEU:CB	2.15	0.50
28:Z3:190:ASP:OD2	28:Z3:191:GLY:N	2.44	0.50
28:Z4:535:ILE:CD1	30:b4:182:PRO:CG	2.88	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1242:THR:HG21	1:A1:1248:ILE:HD11	1.93	0.50
1:A3:1201:ARG:CB	2:A4:735:ALA:CB	2.89	0.50
1:A3:1221:ILE:HG12	3:A6:498:ARG:O	2.06	0.50
1:A3:1225:PRO:HD2	2:A4:727:ASN:HB2	1.82	0.50
1:A3:1233:GLN:HG2	3:A6:578:ILE:CG1	2.40	0.50
1:A3:1311:ARG:CG	3:A6:712:THR:HG22	2.34	0.50
1:A3:1389:SER:O	3:A6:228:GLY:N	2.44	0.50
2:A4:608:VAL:HG13	3:A6:100:SER:CA	2.42	0.50
2:A4:615:LEU:HB3	3:A6:509:LYS:CA	2.42	0.50
2:A4:669:LEU:CA	3:A6:542:LEU:CD1	2.89	0.50
2:A4:777:LEU:N	6:D3:678:GLY:HA3	2.23	0.50
2:A4:800:LEU:HD22	3:A6:319:TYR:OH	2.12	0.50
2:A4:801:THR:C	3:A6:319:TYR:OH	2.55	0.50
2:A4:858:ALA:HB3	3:A6:174:PRO:O	2.10	0.50
3:A5:1026:PRO:N	11:I5:66:LEU:CD2	2.75	0.50
4:B5:344:ALA:CB	5:C2:740:ARG:HH22	2.02	0.50
6:D5:606:LYS:N	6:D5:607:PRO:CD	2.74	0.50
6:D5:646:LEU:HD22	6:D5:696:ILE:CD1	2.42	0.50
8:F2:1000:LEU:HD12	8:F2:1001:ILE:HG23	1.93	0.50
8:F2:1392:LEU:N	8:F2:1393:PRO:HD2	2.27	0.50
11:I1:896:PRO:HA	17:O1:232:LYS:CB	2.40	0.50
11:I1:956:ILE:CG1	15:M1:599:ILE:CD1	2.89	0.50
11:I1:978:LYS:HG3	20:R1:153:GLN:HB3	1.92	0.50
11:I1:1665:LEU:HA	11:I2:1668:HIS:N	2.26	0.50
11:I1:1674:HIS:NE2	11:I2:1636:TYR:OH	2.39	0.50
11:I2:876:ALA:HB3	17:O3:254:ARG:HD2	1.93	0.50
11:I2:917:TYR:N	15:M3:586:ASP:C	2.68	0.50
11:I2:952:LEU:CD1	16:N3:400:LEU:HD21	2.40	0.50
11:I2:955:LYS:CB	16:N3:400:LEU:HD23	2.32	0.50
11:I2:1070:LEU:HD12	16:N3:430:ARG:N	2.26	0.50
11:I4:819:MET:CE	27:Y3:178:PHE:HE1	2.06	0.50
15:M2:605:THR:O	17:O2:261:LYS:NZ	2.43	0.50
21:S2:546:SER:O	21:S2:550:ASP:CB	2.59	0.50
22:T1:685:ARG:HH21	22:T1:716:PRO:HG2	1.75	0.50
22:T3:770:VAL:HB	22:T3:802:TRP:CZ2	2.45	0.50
22:T3:773:LYS:HG3	22:T3:774:PRO:HD2	1.92	0.50
23:U1:202:LEU:C	31:c1:633:PHE:CA	2.70	0.50
23:U1:202:LEU:HB2	31:c1:633:PHE:C	2.37	0.50
23:U1:354:SER:O	23:U1:358:VAL:HG23	2.11	0.50
23:U2:358:VAL:O	31:c4:545:PRO:HB3	2.11	0.50
23:U3:278:GLN:OE1	25:W4:189:SER:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V1:153:LYS:HA	25:W1:261:SER:CB	2.41	0.50
25:W3:138:PRO:HB2	25:W3:140:ILE:HD11	1.93	0.50
26:X1:218:GLU:HA	26:X1:220:ASP:N	2.26	0.50
26:X2:66:PRO:HA	27:Y2:308:TRP:CD1	2.46	0.50
26:X2:196:ASP:O	34:i:364:TYR:HE2	1.94	0.50
26:X2:363:TYR:CG	34:i:419:THR:HA	2.37	0.50
26:X4:152:LEU:O	26:X4:156:GLU:HG3	2.11	0.50
28:Z1:561:GLN:CD	30:b1:235:LEU:CD2	2.84	0.50
30:b3:212:PHE:HE1	30:b3:233:TRP:CE3	2.29	0.50
31:c1:331:ILE:CG2	31:c1:340:GLN:HB2	2.41	0.50
31:c2:331:ILE:CG2	31:c2:340:GLN:HB2	2.41	0.50
31:c2:544:VAL:O	31:c2:548:VAL:HG23	2.10	0.50
31:c5:331:ILE:CG2	31:c5:340:GLN:HB2	2.41	0.50
2:A2:866:SER:HB2	6:D1:599:ASP:HA	1.92	0.50
2:A2:872:ALA:N	2:A2:873:PRO:HD2	2.18	0.50
2:A2:875:LEU:N	6:D1:568:ARG:N	2.28	0.50
2:A2:876:ARG:NH1	6:D1:563:GLU:HB2	2.27	0.50
2:A2:970:PHE:HA	6:D1:192:TYR:CE1	1.67	0.50
2:A2:1135:ARG:NH1	3:A5:147:LEU:HD22	2.25	0.50
2:A2:1344:ALA:O	2:A2:1345:SER:CB	2.58	0.50
1:A3:1241:ARG:C	3:A6:586:CYS:HA	2.36	0.50
1:A3:1328:ARG:CD	3:A6:127:HIS:O	2.57	0.50
2:A4:672:ARG:CA	3:A6:508:LEU:CD1	2.69	0.50
2:A4:692:VAL:HG12	3:A6:467:LEU:CD2	2.19	0.50
2:A4:716:ASN:C	3:A6:512:GLU:CD	2.79	0.50
2:A4:823:VAL:HG22	3:A6:566:GLY:HA2	1.93	0.50
2:A4:872:ALA:HB1	6:D3:565:MET:HB3	1.93	0.50
2:A4:873:PRO:CD	6:D3:569:CYS:SG	2.97	0.50
2:A4:1019:ARG:NH2	6:D3:238:ALA:HB3	2.26	0.50
3:A5:777:LEU:HD13	3:A5:822:ILE:HD11	1.90	0.50
3:A5:1372:THR:N	28:Z2:828:LEU:H	2.10	0.50
3:A6:564:ASN:ND2	6:D3:679:ILE:CD1	2.64	0.50
6:D2:646:LEU:HD22	6:D2:696:ILE:CD1	2.42	0.50
6:D2:649:VAL:HG11	6:D2:660:LYS:HA	1.92	0.50
6:D5:238:ALA:CA	31:c3:470:ARG:O	2.60	0.50
6:D7:606:LYS:N	6:D7:607:PRO:CD	2.74	0.50
8:F1:1264:ARG:O	17:O2:265:ASN:CA	2.57	0.50
9:G1:258:LYS:O	17:O2:256:TYR:HB3	2.03	0.50
11:I1:301:GLN:OE1	11:I1:301:GLN:N	2.42	0.50
11:I1:873:ILE:HG22	17:O1:255:GLY:H	1.71	0.50
11:I1:931:VAL:HG23	15:M1:604:ASN:N	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:988:GLU:HA	15:M1:611:LYS:H	1.77	0.50
11:I1:1605:LEU:HD13	11:I2:1669:ARG:NE	2.21	0.50
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG12	2.38	0.50
11:I2:898:VAL:CB	17:O3:236:ASP:CA	2.65	0.50
11:I2:899:LEU:HD12	17:O3:230:ILE:O	2.08	0.50
11:I2:899:LEU:HD13	17:O3:230:ILE:C	2.16	0.50
11:I2:925:LEU:HD21	20:R3:163:LEU:HB3	1.93	0.50
11:I2:952:LEU:O	15:M3:599:ILE:HG23	2.11	0.50
11:I2:1033:PRO:CB	20:R3:177:LEU:CD1	2.70	0.50
11:I5:1034:ASP:OD1	11:I5:1035:GLN:N	2.44	0.50
21:S1:939:HIS:O	21:S1:939:HIS:CG	2.64	0.50
21:S3:622:GLY:O	21:S3:623:ARG:O	2.27	0.50
21:S3:946:LEU:HB3	21:S3:981:SER:HB3	1.93	0.50
21:S4:176:MET:HE1	21:S4:232:LEU:HD13	1.89	0.50
22:T4:685:ARG:HH21	22:T4:716:PRO:HG2	1.75	0.50
22:T4:885:ARG:NH1	22:T4:885:ARG:CG	2.73	0.50
23:U1:395:CYS:C	31:c2:552:ARG:CZ	2.84	0.50
23:U2:43:ARG:H	31:c4:474:ASN:N	2.09	0.50
23:U2:431:ILE:HG21	31:c4:480:CYS:C	2.37	0.50
24:V1:287:ASN:C	31:c1:11:TYR:CZ	2.88	0.50
24:V2:186:PHE:CD1	24:V2:487:LEU:HD11	2.46	0.50
26:X2:308:ASN:CA	34:i:405:TYR:HB3	2.41	0.50
26:X3:218:GLU:HA	26:X3:220:ASP:N	2.27	0.50
28:Z1:555:LYS:HD2	30:b1:212:PHE:CE1	2.46	0.50
28:Z2:531:LYS:HB3	28:Z2:553:ILE:HG12	1.93	0.50
30:b1:337:GLY:HA3	30:b1:358:MET:O	2.11	0.50
30:b2:133:HIS:CD2	30:b2:167:ILE:HD12	2.46	0.50
30:b4:384:ARG:HE	30:b4:389:THR:CG2	2.24	0.50
34:i:246:LEU:HD12	34:i:263:VAL:HG13	1.93	0.50
2:A2:879:LEU:CG	6:D1:567:LEU:CD1	2.59	0.50
2:A2:1019:ARG:HH22	6:D1:238:ALA:N	2.09	0.50
1:A3:1271:ILE:HG12	3:A6:553:ASP:CA	2.42	0.50
1:A3:1331:GLU:OE1	2:A4:857:LYS:HE2	2.12	0.50
2:A4:652:PRO:CA	3:A6:542:LEU:HD12	2.25	0.50
2:A4:684:VAL:HG21	3:A6:405:PHE:CZ	2.39	0.50
2:A4:692:VAL:HG23	3:A6:380:ALA:HB2	1.92	0.50
2:A4:711:VAL:HG12	3:A6:516:TRP:NE1	1.26	0.50
2:A4:795:GLN:HB3	3:A6:249:SER:OG	2.11	0.50
2:A4:852:ASP:OD2	3:A6:154:GLY:C	2.54	0.50
2:A4:868:GLN:OE1	6:D3:570:VAL:HB	2.12	0.50
2:A4:871:ASN:N	6:D3:570:VAL:HG23	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:904:GLN:HG2	6:D3:603:SER:HB3	1.93	0.50
2:A4:969:ASP:C	6:D3:192:TYR:CZ	2.88	0.50
2:A4:975:GLU:CB	6:D3:499:LEU:HB3	2.12	0.50
3:A5:220:VAL:CG1	5:C2:739:MET:CA	2.89	0.50
3:A5:1053:ARG:NH1	11:I5:99:ARG:HG3	2.26	0.50
6:D1:639:LEU:HD22	6:D1:689:PHE:CG	2.47	0.50
6:D1:649:VAL:HG11	6:D1:660:LYS:HA	1.92	0.50
6:D3:610:ASN:O	6:D3:614:SER:N	2.43	0.50
6:D5:240:ASP:CB	31:c3:470:ARG:NH2	2.68	0.50
6:D7:639:LEU:HD22	6:D7:689:PHE:CG	2.47	0.50
8:F2:1832:ASN:N	8:F2:1835:GLU:OE2	2.44	0.50
9:G1:251:TYR:O	15:M2:602:MET:CE	2.59	0.50
11:I1:881:ILE:N	17:O1:249:ARG:C	2.57	0.50
11:I1:916:ALA:HB2	15:M1:586:ASP:HB2	1.94	0.50
11:I1:949:CYS:N	17:O1:253:LEU:C	2.70	0.50
11:I1:1069:SER:O	16:N1:429:GLU:HG2	2.00	0.50
11:I1:1070:LEU:N	16:N1:429:GLU:HB2	1.93	0.50
11:I1:1607:GLN:HB3	11:I2:1736:LEU:HD12	1.93	0.50
11:I1:1610:VAL:CG1	11:I2:1673:VAL:HG21	2.27	0.50
11:I2:923:GLY:CA	15:M3:591:ASP:C	2.79	0.50
11:I2:947:LEU:HD21	16:N3:408:MET:HA	1.91	0.50
11:I2:1037:THR:CB	20:R3:173:LEU:CD2	2.75	0.50
11:I2:1064:LYS:O	17:O3:274:GLY:C	2.55	0.50
21:S1:1045:GLU:HG2	21:S1:1099:SER:OG	2.10	0.50
21:S2:1036:ILE:CD1	21:S2:1073:ILE:HA	2.41	0.50
21:S3:546:SER:O	21:S3:550:ASP:CB	2.59	0.50
21:S3:939:HIS:O	21:S3:939:HIS:CG	2.64	0.50
21:S4:546:SER:O	21:S4:550:ASP:CB	2.59	0.50
22:T1:721:ALA:CB	31:c5:34:LYS:HZ2	2.08	0.50
22:T3:685:ARG:HH21	22:T3:716:PRO:HG2	1.75	0.50
23:U2:22:PHE:HB2	31:c4:483:ASP:HB3	1.88	0.50
23:U2:35:PRO:HB2	31:c4:531:TRP:CD1	2.27	0.50
23:U2:50:ALA:HB1	23:U2:69:GLU:HG3	1.93	0.50
23:U2:396:LEU:O	31:c4:554:LEU:CB	2.60	0.50
24:V1:380:PHE:C	31:c1:31:TYR:OH	2.53	0.50
24:V2:374:LYS:O	24:V2:377:GLU:HB2	2.12	0.50
24:V3:435:LEU:O	24:V3:439:VAL:HG23	2.11	0.50
24:V4:186:PHE:CD1	24:V4:487:LEU:HD11	2.46	0.50
24:V4:435:LEU:O	24:V4:439:VAL:HG23	2.11	0.50
25:W2:57:TRP:HD1	25:W2:102:VAL:O	1.95	0.50
26:X2:204:PHE:CA	34:i:443:THR:CA	2.82	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:204:PHE:HE1	34:i:440:GLU:O	1.95	0.50
26:X2:286:SER:C	34:i:492:TRP:CG	2.73	0.50
26:X2:305:GLU:OE1	34:i:333:LEU:CD2	2.58	0.50
26:X3:306:TRP:O	26:X3:310:VAL:HG23	2.12	0.50
27:Y2:41:ASP:HB2	29:a2:231[B]:HIS:HE1	1.64	0.50
27:Y2:218:ILE:HG22	27:Y2:233:THR:HG22	1.94	0.50
28:Z1:532:PHE:H	30:b1:184:SER:CA	2.25	0.50
28:Z3:438:GLU:CG	30:b3:314:PRO:HG2	2.41	0.50
28:Z3:532:PHE:H	30:b3:184:SER:HA	1.73	0.50
28:Z4:288:VAL:HG13	28:Z4:336:LEU:HD22	1.93	0.50
28:Z4:401:THR:CG2	30:b4:253:SER:C	2.78	0.50
28:Z4:438:GLU:CG	30:b4:314:PRO:HG2	2.41	0.50
28:Z4:525:LEU:O	30:b4:208:ASN:ND2	2.25	0.50
30:b4:143:ALA:CB	30:b4:192:PHE:HD2	2.23	0.50
31:c2:330:LYS:HB2	31:c2:333:LEU:HD12	1.92	0.50
2:A2:781:ARG:HG3	6:D1:673:ARG:HA	1.90	0.50
2:A2:1157:TYR:CZ	3:A5:167:TRP:CE2	3.00	0.50
1:A3:1056:PHE:HZ	6:D3:807:THR:O	1.78	0.50
1:A3:1091:VAL:HG11	6:D3:801:TYR:CZ	2.46	0.50
1:A3:1189:LEU:H	3:A6:642:ARG:CA	2.24	0.50
1:A3:1239:ALA:H	3:A6:581:LYS:C	2.05	0.50
2:A4:612:ALA:HB2	3:A6:101:TYR:HA	1.94	0.50
2:A4:619:CYS:HA	3:A6:498:ARG:HE	1.76	0.50
2:A4:691:LYS:CE	3:A6:316:ARG:HD2	2.38	0.50
2:A4:692:VAL:O	3:A6:466:ALA:HA	2.12	0.50
2:A4:733:GLY:HA3	3:A6:543:GLY:HA2	1.93	0.50
2:A4:752:LYS:HA	3:A6:539:LYS:C	2.36	0.50
2:A4:794:GLN:CG	3:A6:144:PHE:CE1	2.92	0.50
2:A4:852:ASP:CG	3:A6:155:TYR:HA	2.37	0.50
2:A4:908:LEU:HD11	6:D3:602:THR:OG1	1.44	0.50
3:A5:1316:VAL:HG21	28:Z2:833:ASP:CB	2.40	0.50
3:A5:1380:ALA:HB2	28:Z2:817:VAL:H	1.77	0.50
3:A6:484:PRO:HD2	6:D3:672:GLU:CA	2.41	0.50
3:A6:484:PRO:CB	6:D3:672:GLU:CD	2.83	0.50
3:A6:486:GLN:HA	6:D3:674:TYR:CB	2.37	0.50
6:D1:646:LEU:HD22	6:D1:696:ILE:CD1	2.42	0.50
6:D2:606:LYS:N	6:D2:607:PRO:CD	2.74	0.50
6:D4:606:LYS:N	6:D4:607:PRO:CD	2.74	0.50
6:D6:646:LEU:HD22	6:D6:696:ILE:CD1	2.42	0.50
8:F1:1091:SER:OG	17:O2:237:PRO:C	2.54	0.50
11:I1:816:ASP:OD1	11:I1:817:ASP:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:947:LEU:CB	17:O1:256:TYR:CZ	2.73	0.50
11:I1:1048:GLU:OE2	20:R1:146:LEU:HD12	2.11	0.50
11:I1:1739:GLU:HB2	11:I2:1540:LYS:CE	2.32	0.50
11:I2:849:LEU:HD12	17:O3:247:TRP:CE3	2.44	0.50
11:I2:850:ILE:HG21	15:M3:598:GLU:CG	2.33	0.50
11:I2:896:PRO:CD	17:O3:233:THR:CA	2.81	0.50
11:I2:924:ILE:HD13	15:M3:595:MET:CB	2.13	0.50
11:I2:951:LYS:CD	16:N3:404:GLU:CB	2.53	0.50
11:I2:976:ARG:HH21	20:R3:143:PHE:CB	2.24	0.50
11:I2:983:LEU:CG	15:M3:617:THR:OG1	2.50	0.50
11:I3:1275:SER:CB	26:X1:522:MET:C	2.54	0.50
21:S2:1045:GLU:HG2	21:S2:1099:SER:OG	2.10	0.50
21:S2:1070:LYS:O	21:S2:1074:LEU:HD12	2.11	0.50
21:S4:682:ASN:CA	21:S4:684:THR:HA	2.41	0.50
23:U1:23:LYS:HB2	31:c2:478:SER:HB2	1.91	0.50
23:U2:404:VAL:N	31:c4:551:LEU:CD2	2.69	0.50
23:U2:431:ILE:C	31:c4:464:LEU:CB	2.84	0.50
23:U4:50:ALA:HB1	23:U4:69:GLU:HG3	1.93	0.50
24:V1:435:LEU:O	24:V1:439:VAL:HG23	2.11	0.50
24:V4:526:HIS:C	24:V4:530:ARG:HD2	2.37	0.50
25:W1:62:ALA:HB2	25:W1:107:TRP:CE2	2.46	0.50
26:X1:107:TYR:CZ	26:X1:111:LEU:HD11	2.46	0.50
26:X4:218:GLU:HA	26:X4:220:ASP:N	2.26	0.50
27:Y2:117:ALA:HB3	27:Y2:124:LYS:HB3	1.92	0.50
28:Z1:526:ARG:HA	30:b1:206:ASN:ND2	2.23	0.50
28:Z2:288:VAL:HG13	28:Z2:336:LEU:HD22	1.94	0.50
28:Z2:407:GLY:C	30:b2:251:ILE:CG1	2.84	0.50
28:Z3:258:ASP:OD1	28:Z3:260:VAL:HG22	2.11	0.50
28:Z3:407:GLY:C	30:b3:251:ILE:CG1	2.84	0.50
28:Z4:561:GLN:CD	30:b4:235:LEU:CD2	2.84	0.50
30:b1:114:ILE:HG23	30:b1:121:ILE:HG23	1.93	0.50
30:b2:114:ILE:HG23	30:b2:121:ILE:HG23	1.93	0.50
30:b2:258:VAL:HG13	30:b2:270:ALA:HB2	1.93	0.50
30:b3:258:VAL:HG13	30:b3:270:ALA:HB2	1.93	0.50
31:c4:541:ARG:O	31:c4:541:ARG:HG2	2.07	0.50
1:A1:870:HIS:CE1	6:D3:279:HIS:HE1	2.29	0.50
2:A2:873:PRO:HA	6:D1:563:GLU:CB	2.41	0.50
2:A2:965:LYS:HE3	6:D1:197:VAL:N	2.24	0.50
2:A2:976:LEU:O	6:D1:492:VAL:O	2.25	0.50
2:A2:1148:ARG:NH2	3:A5:169:TYR:CA	2.46	0.50
2:A2:1157:TYR:CD2	3:A5:176:LEU:CD2	2.81	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1235:ILE:HG23	3:A6:637:THR:HG21	1.94	0.50
1:A3:1237:LEU:CB	3:A6:597:GLU:HG2	2.38	0.50
1:A3:1277:TRP:N	1:A3:1278:PRO:CD	2.75	0.50
1:A3:1333:ARG:HA	6:D3:637:LYS:NZ	2.27	0.50
1:A3:1399:ARG:HD3	2:A4:884:ARG:O	2.12	0.50
2:A4:75:LEU:CD2	3:A6:321:ASP:OD1	2.59	0.50
2:A4:79:ALA:CB	3:A6:321:ASP:HA	2.39	0.50
2:A4:618:ALA:N	3:A6:511:PHE:CE1	2.79	0.50
2:A4:705:ILE:HG23	3:A6:480:VAL:HB	1.93	0.50
2:A4:751:GLN:OE1	3:A6:539:LYS:HG3	2.11	0.50
2:A4:753:GLU:O	3:A6:543:GLY:C	2.47	0.50
2:A4:879:LEU:CG	6:D3:564:ASN:OD1	2.49	0.50
2:A4:979:GLY:HA3	6:D3:471:GLN:O	2.12	0.50
3:A5:1380:ALA:HB2	28:Z2:817:VAL:CB	2.42	0.50
3:A6:444:ARG:CA	6:D3:737:PHE:CE2	2.93	0.50
3:A6:565:THR:CG2	6:D3:633:LYS:O	2.59	0.50
3:A6:1370:ALA:HB3	28:Z4:874:ASN:CB	2.42	0.50
6:D1:610:ASN:O	6:D1:614:SER:N	2.43	0.50
6:D2:371:LEU:HD12	6:D2:372:ARG:N	2.26	0.50
6:D3:606:LYS:N	6:D3:607:PRO:CD	2.75	0.50
6:D4:646:LEU:HD22	6:D4:696:ILE:CD1	2.42	0.50
6:D5:639:LEU:HD22	6:D5:689:PHE:CG	2.47	0.50
11:I1:873:ILE:HG22	17:O1:254:ARG:CB	2.41	0.50
11:I1:888:GLU:O	17:O1:239:GLN:NE2	2.44	0.50
11:I1:924:ILE:CG1	15:M1:596:ILE:CG1	2.46	0.50
11:I1:947:LEU:HA	16:N1:407:ALA:CA	2.28	0.50
11:I1:965:ALA:HB3	20:R1:164:PRO:HA	1.94	0.50
11:I1:1020:ALA:C	16:N1:409:ALA:HB3	2.35	0.50
11:I2:874:LEU:CB	17:O3:255:GLY:CA	2.72	0.50
11:I3:1277:LEU:CD2	26:X1:518:ASP:C	2.79	0.50
17:O3:151:LEU:HD21	18:P3:325:ILE:HD12	1.78	0.50
17:O4:109:PRO:CB	18:P4:318:PRO:HB2	2.24	0.50
18:P1:276:SER:HB2	18:P4:322:LYS:HE3	0.50	0.50
21:S1:546:SER:O	21:S1:550:ASP:CB	2.59	0.50
21:S1:1070:LYS:O	21:S1:1074:LEU:HD12	2.11	0.50
21:S4:1030:GLN:O	21:S4:1034:LEU:HB2	2.11	0.50
22:T1:756:ALA:N	31:c5:58:ARG:NH2	2.59	0.50
22:T4:862:HIS:NE2	22:T4:903:LYS:HB3	2.26	0.50
23:U1:135:ARG:CD	31:c1:637:ASP:H	2.25	0.50
23:U1:202:LEU:HB3	31:c1:632:HIS:CA	2.35	0.50
23:U1:395:CYS:O	31:c2:556:GLN:OE1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:18:THR:HG21	31:c4:559:ILE:CG2	2.40	0.50
23:U2:360:HIS:HD2	31:c4:544:VAL:HG13	1.73	0.50
25:W2:214:PRO:HG2	25:W2:264:LEU:HA	1.92	0.50
25:W2:259:ARG:HB2	25:W2:272:SER:HB2	1.93	0.50
26:X1:156:GLU:HG2	26:X1:179:LEU:CD2	2.41	0.50
26:X2:152:LEU:O	26:X2:156:GLU:HG3	2.11	0.50
26:X2:329:ARG:CD	34:i:475:ILE:HG13	2.40	0.50
27:Y1:218:ILE:HG22	27:Y1:233:THR:HG22	1.94	0.50
28:Z1:523:ASP:HB2	30:b1:238:ASN:HA	0.72	0.50
28:Z1:531:LYS:HB3	28:Z1:553:ILE:HG12	1.93	0.50
28:Z2:443:LEU:CD2	30:b2:250:GLY:HA3	2.36	0.50
30:b4:55:GLY:H	30:b4:384:ARG:NH1	2.09	0.50
30:b4:212:PHE:HE1	30:b4:233:TRP:CE3	2.29	0.50
31:c3:331:ILE:CG2	31:c3:340:GLN:HB2	2.41	0.50
31:c4:243:MET:HE3	31:c4:247:LEU:HD11	1.94	0.50
1:A1:1222:ALA:O	2:A2:731:ILE:CD1	2.58	0.50
2:A2:1204:TRP:CZ2	2:A2:1223:GLU:HG3	2.46	0.50
1:A3:1090:SER:CB	6:D3:800:PRO:HA	2.40	0.50
2:A4:576:VAL:HG12	3:A6:509:LYS:HZ3	1.76	0.50
2:A4:689:LYS:NZ	3:A6:336:ILE:HD13	2.25	0.50
2:A4:754:HIS:N	3:A6:543:GLY:HA3	2.24	0.50
2:A4:792:VAL:CA	3:A6:249:SER:HG	2.25	0.50
2:A4:820:LYS:H	3:A6:148:GLY:N	2.10	0.50
2:A4:870:HIS:ND1	6:D3:566:PHE:HA	2.27	0.50
2:A4:893:LEU:HB3	3:A6:177:ILE:N	2.26	0.50
2:A4:951:GLU:CA	4:B6:346:LEU:CA	2.89	0.50
2:A4:955:CYS:N	4:B6:345:LYS:HB2	2.23	0.50
3:A5:1392:ARG:HH11	28:Z2:867:LYS:H	1.28	0.50
3:A6:1395:LYS:H	28:Z4:912:ASP:C	2.19	0.50
3:A6:1413:SER:O	28:Z4:994:ILE:C	2.54	0.50
11:I1:873:ILE:CG2	17:O1:254:ARG:HB3	2.41	0.50
11:I1:877:ILE:HG21	17:O1:254:ARG:N	2.21	0.50
11:I1:931:VAL:HG13	15:M1:604:ASN:CB	2.41	0.50
11:I1:1044:GLY:HA2	15:M1:616:LEU:HD13	1.94	0.50
11:I1:1067:PHE:CB	16:N1:432:TYR:H	2.25	0.50
11:I1:1546:TRP:O	12:J2:300:ILE:CG2	2.59	0.50
11:I2:982:GLN:H	15:M3:621:ARG:HH12	1.60	0.50
11:I2:1052:LEU:N	17:O3:286:ILE:N	2.59	0.50
17:O4:142:PHE:HA	17:O4:145:ILE:HG22	1.94	0.50
22:T3:854:LEU:HB2	22:T3:891:VAL:HG11	1.93	0.50
22:T4:770:VAL:HB	22:T4:802:TRP:CZ2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:198:GLU:HG3	31:c1:622:ILE:CG1	2.27	0.50
23:U1:233:THR:HG22	23:U1:234:GLN:O	2.12	0.50
23:U2:397:ASP:OD2	31:c4:537:THR:CB	2.59	0.50
23:U2:399:ILE:HD13	31:c4:553:LEU:O	2.04	0.50
23:U3:354:SER:O	23:U3:358:VAL:HG23	2.11	0.50
25:W3:57:TRP:HD1	25:W3:102:VAL:O	1.94	0.50
27:Y3:218:ILE:HG22	27:Y3:233:THR:HG22	1.94	0.50
28:Z2:522:ASN:OD1	30:b2:241:PRO:CB	2.47	0.50
28:Z2:555:LYS:HD2	30:b2:212:PHE:CE1	2.46	0.50
28:Z3:407:GLY:CA	30:b3:251:ILE:CG1	2.89	0.50
28:Z4:58:ASN:HB3	28:Z4:70:TYR:CZ	2.46	0.50
28:Z4:394:ASP:OD2	30:b4:241:PRO:O	2.30	0.50
28:Z4:532:PHE:H	30:b4:184:SER:CA	2.25	0.50
29:a4:231[A]:HIS:H	29:a4:231[A]:HIS:CD2	2.28	0.50
1:A3:1183:LEU:HA	3:A6:639:ASN:N	2.25	0.50
2:A4:648:TYR:CD2	3:A6:503:GLN:CG	2.95	0.50
2:A4:687:LEU:HD23	3:A6:397:LEU:CA	2.41	0.50
2:A4:711:VAL:C	3:A6:516:TRP:CE2	2.87	0.50
2:A4:712:THR:HG21	3:A6:436:PRO:O	2.12	0.50
2:A4:776:MET:HB2	3:A6:519:LEU:CD1	2.42	0.50
2:A4:799:ASP:OD1	3:A6:316:ARG:C	2.55	0.50
2:A4:853:VAL:CB	3:A6:170:THR:HA	2.39	0.50
2:A4:858:ALA:O	6:D3:606:LYS:HE3	2.12	0.50
2:A4:875:LEU:C	6:D3:564:ASN:CB	2.83	0.50
2:A4:1305:ALA:HB3	2:A4:1306:PRO:HD2	1.94	0.50
3:A5:996:ASN:O	11:I5:59:LEU:N	2.42	0.50
3:A6:1374:ALA:CB	28:Z4:867:LYS:O	2.60	0.50
6:D4:639:LEU:HD22	6:D4:689:PHE:CG	2.47	0.50
6:D7:537:ARG:HH22	11:I3:173:ARG:NH2	2.09	0.50
8:F1:1093:LEU:CD1	17:O2:240:GLY:O	2.45	0.50
11:I1:846:ILE:CG1	15:M1:594:LYS:HB3	2.41	0.50
11:I1:1061:ASP:HB3	17:O1:277:GLU:CD	2.27	0.50
11:I1:1114:VAL:CB	16:N1:435:ALA:HB3	2.41	0.50
11:I2:1031:ALA:C	20:R3:173:LEU:CA	2.85	0.50
11:I5:301:GLN:OE1	11:I5:301:GLN:N	2.42	0.50
21:S1:1126:LEU:O	21:S1:1129:ASP:HB2	2.12	0.50
21:S2:882:GLN:C	21:S2:884:ARG:N	2.69	0.50
21:S2:939:HIS:O	21:S2:939:HIS:CG	2.64	0.50
21:S2:946:LEU:HB3	21:S2:981:SER:HB3	1.93	0.50
23:U2:159:ASP:OD2	24:V2:319:LEU:N	2.29	0.50
23:U2:404:VAL:CB	31:c4:543:ALA:CB	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:8:GLN:C	23:U4:10:GLU:N	2.68	0.50
24:V4:374:LYS:O	24:V4:377:GLU:HB2	2.11	0.50
25:W1:259:ARG:HB2	25:W1:272:SER:HB2	1.93	0.50
26:X2:107:TYR:CZ	26:X2:111:LEU:HD11	2.46	0.50
26:X2:313:LEU:O	34:i:478:PRO:HB3	2.11	0.50
26:X3:107:TYR:CZ	26:X3:111:LEU:HD11	2.46	0.50
26:X4:107:TYR:CZ	26:X4:111:LEU:HD11	2.46	0.50
27:Y3:41:ASP:N	29:a3:230:GLN:OE1	2.45	0.50
28:Z1:258:ASP:OD1	28:Z1:260:VAL:HG22	2.11	0.50
28:Z1:438:GLU:CG	30:b1:314:PRO:HG2	2.41	0.50
28:Z2:125:ASP:OD1	28:Z2:127:SER:OG	2.17	0.50
28:Z2:532:PHE:H	30:b2:184:SER:CA	2.25	0.50
28:Z2:535:ILE:HD11	30:b2:182:PRO:CG	2.41	0.50
28:Z2:591:MET:HE1	28:Z2:630:THR:OG1	2.12	0.50
28:Z3:466:TYR:HB3	28:Z3:470:ILE:HB	1.92	0.50
28:Z3:591:MET:HE1	28:Z3:630:THR:OG1	2.12	0.50
29:a4:6:ALA:HB2	29:a4:373:TYR:CE2	2.47	0.50
30:b1:192:PHE:HE1	30:b1:200:LEU:HD22	1.77	0.50
30:b2:283:PHE:HB2	30:b2:299:GLY:N	2.27	0.50
30:b2:337:GLY:HA3	30:b2:358:MET:O	2.11	0.50
30:b4:258:VAL:HG13	30:b4:270:ALA:HB2	1.93	0.50
31:c2:243:MET:HE3	31:c2:247:LEU:HD11	1.94	0.50
1:A1:1277:TRP:N	1:A1:1278:PRO:CD	2.75	0.50
2:A2:1160:GLN:CD	3:A5:166:LEU:N	2.68	0.50
2:A2:1160:GLN:OE1	3:A5:165:PHE:CA	2.41	0.50
1:A3:1086:LYS:HE2	6:D3:798:MET:O	2.12	0.50
1:A3:1099:GLN:NE2	11:I2:1421:ARG:HD2	2.27	0.50
1:A3:1130:ARG:HA	3:A6:653:ARG:CD	2.41	0.50
1:A3:1271:ILE:CG2	3:A6:553:ASP:CG	2.67	0.50
1:A3:1321:MET:HE2	3:A6:126:ARG:NH1	2.22	0.50
1:A3:1366:LEU:HD11	3:A6:226:PRO:O	2.10	0.50
2:A4:706:PRO:HD2	3:A6:463:ASP:C	2.35	0.50
2:A4:766:SER:OG	3:A6:470:ARG:O	2.30	0.50
2:A4:828:ALA:HB2	3:A6:138:LEU:HB2	1.93	0.50
2:A4:855:THR:HG22	3:A6:169:TYR:HA	1.93	0.50
2:A4:874:VAL:HB	6:D3:571:SER:N	2.12	0.50
2:A4:982:THR:C	6:D3:502:LEU:HD22	2.35	0.50
3:A5:1395:LYS:CB	28:Z2:870:ILE:CA	2.83	0.50
3:A6:484:PRO:HB2	6:D3:676:ALA:HB2	1.93	0.50
6:D5:610:ASN:O	6:D5:614:SER:N	2.43	0.50
6:D7:371:LEU:HD12	6:D7:372:ARG:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:873:ILE:CG2	17:O1:254:ARG:C	2.84	0.50
11:I1:945:LEU:HG	17:O1:257:ALA:CA	2.41	0.50
11:I1:1052:LEU:CD2	16:N1:434:LEU:CD1	2.86	0.50
11:I1:1662:ARG:HD3	11:I2:1603:ARG:CZ	2.18	0.50
11:I2:955:LYS:HA	16:N3:399:HIS:O	1.92	0.50
11:I2:1017:VAL:HG23	16:N3:411:GLN:HA	0.50	0.50
11:I2:1045:PHE:CB	15:M3:619:ILE:HD12	2.42	0.50
11:I4:813:ILE:C	26:X3:496:THR:HG23	2.33	0.50
21:S1:429:SER:HB2	21:S1:436:SER:OG	2.12	0.50
21:S2:1126:LEU:O	21:S2:1129:ASP:HB2	2.12	0.50
23:U1:18:THR:HG22	31:c2:473:THR:HG23	0.55	0.50
23:U1:434:THR:C	31:c2:479:ILE:HG22	2.37	0.50
23:U2:21:GLU:CG	31:c4:482:LEU:HB3	2.41	0.50
23:U2:45:ALA:CB	31:c4:473:THR:OG1	2.60	0.50
23:U2:233:THR:HG22	23:U2:234:GLN:O	2.12	0.50
23:U2:437:ASN:O	31:c4:428:ARG:NE	2.45	0.50
26:X2:218:GLU:HA	26:X2:220:ASP:N	2.27	0.50
26:X2:294:GLN:HB2	34:i:414:HIS:CD2	2.47	0.50
26:X3:158:PHE:O	26:X3:162:VAL:HG23	2.12	0.50
27:Y2:67:GLU:OE1	27:Y2:119:ALA:HB1	2.12	0.50
28:Z1:70:TYR:HA	28:Z1:80:THR:O	2.10	0.50
28:Z1:526:ARG:O	30:b1:184:SER:OG	2.30	0.50
28:Z2:438:GLU:CG	30:b2:314:PRO:HG2	2.41	0.50
28:Z2:539:GLU:HA	30:b2:163:ASP:OD2	2.11	0.50
28:Z3:288:VAL:HG13	28:Z3:336:LEU:HD22	1.94	0.50
28:Z4:407:GLY:C	30:b4:251:ILE:CG1	2.84	0.50
29:a3:6:ALA:HB2	29:a3:373:TYR:CE2	2.47	0.50
30:b4:283:PHE:HB2	30:b4:299:GLY:N	2.27	0.50
1:A1:873:PRO:CG	6:D3:218:LYS:NZ	2.60	0.49
1:A3:1091:VAL:HG22	6:D3:808:ASN:ND2	2.27	0.49
1:A3:1204:TRP:HA	2:A4:672:ARG:NH2	2.27	0.49
1:A3:1268:ASP:H	3:A6:554:GLN:N	2.08	0.49
2:A4:677:ALA:C	3:A6:98:LEU:O	2.29	0.49
2:A4:691:LYS:HD3	3:A6:330:LEU:CG	2.42	0.49
2:A4:717:VAL:N	3:A6:512:GLU:OE1	2.42	0.49
2:A4:779:ASP:OD1	3:A6:486:GLN:C	2.54	0.49
2:A4:818:LEU:C	3:A6:147:LEU:HB3	2.29	0.49
2:A4:819:VAL:HG11	3:A6:149:LEU:HG	0.74	0.49
2:A4:859:GLN:CD	3:A6:167:TRP:CE3	2.90	0.49
2:A4:864:ARG:N	3:A6:132:ASP:HB3	2.26	0.49
3:A5:1091:VAL:HG11	11:I5:39:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:520:GLU:HG3	6:D3:681:ALA:N	2.26	0.49
6:D6:606:LYS:N	6:D6:607:PRO:CD	2.74	0.49
8:F1:1000:LEU:HD12	8:F1:1001:ILE:HG23	1.93	0.49
9:G1:263:MET:HE1	16:N2:407:ALA:O	2.12	0.49
11:I1:846:ILE:HG12	15:M1:591:ASP:CB	2.40	0.49
11:I1:1071:LEU:CA	16:N1:429:GLU:HG3	2.42	0.49
11:I2:978:LYS:NZ	20:R3:153:GLN:C	2.70	0.49
11:I2:978:LYS:CG	20:R3:151:LYS:HD3	2.42	0.49
11:I2:983:LEU:HB3	15:M3:614:ASP:OD2	2.13	0.49
11:I2:1030:ARG:HB3	20:R3:172:ASP:C	2.37	0.49
11:I2:1045:PHE:CB	15:M3:619:ILE:HD13	2.41	0.49
11:I4:815:ILE:N	26:X3:497:ARG:HB2	2.17	0.49
17:O1:162:LYS:HZ1	18:P1:318:PRO:HG3	1.77	0.49
21:S1:597:ILE:CA	21:S2:1120:PRO:HD2	2.35	0.49
21:S3:1126:LEU:O	21:S3:1129:ASP:HB2	2.12	0.49
21:S4:1126:LEU:O	21:S4:1129:ASP:HB2	2.12	0.49
22:T1:816:LYS:CD	31:c5:85:ARG:CZ	2.89	0.49
22:T4:854:LEU:HB2	22:T4:891:VAL:HG11	1.92	0.49
23:U1:50:ALA:HB1	23:U1:69:GLU:HG3	1.93	0.49
23:U1:138:ASN:CG	31:c1:500:LYS:HE2	2.37	0.49
23:U2:24:ILE:N	31:c4:483:ASP:O	2.45	0.49
25:W2:174:VAL:HA	25:W2:183:LYS:O	2.12	0.49
25:W4:62:ALA:HB2	25:W4:107:TRP:CE2	2.46	0.49
26:X2:191:ILE:CB	34:i:443:THR:HG21	2.36	0.49
26:X2:304:ARG:O	34:i:317:LEU:CG	2.56	0.49
26:X2:314:SER:N	34:i:400:LYS:N	2.59	0.49
26:X2:369:GLU:HB3	34:i:428:LEU:CD1	2.42	0.49
26:X4:158:PHE:O	26:X4:162:VAL:HG23	2.12	0.49
28:Z1:401:THR:CB	30:b1:253:SER:O	2.25	0.49
28:Z1:639:LEU:HD23	30:b1:232:PRO:CG	2.42	0.49
28:Z2:407:GLY:CA	30:b2:251:ILE:CG1	2.89	0.49
28:Z2:526:ARG:O	30:b2:184:SER:OG	2.30	0.49
28:Z3:522:ASN:O	28:Z3:526:ARG:HG3	2.12	0.49
28:Z3:555:LYS:HD2	30:b3:212:PHE:CE1	2.46	0.49
28:Z4:522:ASN:O	28:Z4:526:ARG:HG3	2.12	0.49
30:b1:162:ASP:HA	30:b1:186:PRO:HB3	1.94	0.49
1:A1:870:HIS:O	6:D3:279:HIS:HB2	2.01	0.49
1:A1:1333:ARG:HA	6:D1:637:LYS:CD	2.42	0.49
2:A2:983:LEU:HD21	6:D1:554:LEU:HA	1.94	0.49
1:A3:1237:LEU:HD13	3:A6:597:GLU:O	2.11	0.49
1:A3:1392:ARG:CA	3:A6:225:THR:CB	2.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:N	3:A6:512:GLU:CD	2.70	0.49
2:A4:734:LEU:HD11	3:A6:545:GLY:O	2.01	0.49
2:A4:759:ALA:CB	3:A6:388:GLU:CB	2.68	0.49
2:A4:779:ASP:OD1	6:D3:674:TYR:HB3	2.12	0.49
2:A4:854:VAL:HG12	3:A6:174:PRO:CB	2.43	0.49
2:A4:865:ALA:HB2	6:D3:567:LEU:CD2	2.28	0.49
2:A4:897:ASN:O	3:A6:165:PHE:CD1	2.64	0.49
2:A4:988:ARG:HD2	6:D3:500:LYS:HG3	1.79	0.49
3:A5:1029:ILE:CG2	11:I5:69:GLY:CA	2.66	0.49
3:A6:444:ARG:H	6:D3:719:LEU:HD12	1.74	0.49
6:D2:639:LEU:HD22	6:D2:689:PHE:CG	2.47	0.49
8:F1:689:ARG:O	8:F1:699:ARG:N	2.40	0.49
8:F1:1264:ARG:NE	17:O2:263:GLN:HA	2.26	0.49
8:F2:731:ASP:OD1	8:F2:732:VAL:N	2.45	0.49
9:G1:258:LYS:HE3	16:N2:408:MET:CE	2.42	0.49
11:I1:837:MET:HB3	17:O1:239:GLN:O	2.01	0.49
11:I1:950:LEU:HD11	16:N1:410:MET:HB2	1.94	0.49
11:I2:816:ASP:OD1	11:I2:817:ASP:N	2.42	0.49
11:I2:887:GLN:HB3	17:O3:243:LEU:HD23	1.93	0.49
11:I2:927:HIS:HB2	15:M3:597:LYS:CB	2.29	0.49
11:I2:950:LEU:HG	16:N3:410:MET:SD	2.43	0.49
11:I2:950:LEU:HD23	15:M3:606:LEU:CD2	2.41	0.49
11:I2:962:ILE:HG12	15:M3:600:ASN:OD1	2.11	0.49
11:I2:1048:GLU:CG	17:O3:288:GLU:CD	2.78	0.49
11:I3:389:GLN:N	11:I3:389:GLN:OE1	2.46	0.49
11:I3:1013:GLU:OE1	11:I3:1013:GLU:N	2.41	0.49
11:I3:1274:HIS:CB	26:X1:534:ILE:HG21	2.32	0.49
11:I4:1112:SER:HB3	12:J4:241:THR:CB	2.42	0.49
17:O3:142:PHE:HA	17:O3:145:ILE:HG22	1.94	0.49
21:S3:429:SER:HB2	21:S3:436:SER:OG	2.12	0.49
21:S3:1030:GLN:O	21:S3:1034:LEU:HB2	2.11	0.49
21:S4:939:HIS:O	21:S4:939:HIS:CG	2.64	0.49
21:S4:988:LEU:O	21:S4:992:ILE:HG22	2.11	0.49
22:T1:781:THR:CG2	22:T1:784:GLU:H	2.26	0.49
23:U1:136:PRO:O	31:c1:635:SER:HA	2.11	0.49
23:U2:359:ILE:CG2	31:c4:544:VAL:O	2.59	0.49
24:V2:281:ILE:HB	24:V2:301:LEU:HD21	1.93	0.49
25:W4:214:PRO:HG2	25:W4:264:LEU:HA	1.92	0.49
26:X1:278:CYS:SG	26:X1:323:ASP:HB2	2.53	0.49
28:Z1:288:VAL:HG13	28:Z1:336:LEU:HD22	1.94	0.49
30:b4:162:ASP:HA	30:b4:186:PRO:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:h:197:ALA:HA	33:h:224:TRP:CZ2	2.47	0.49
2:A2:870:HIS:HB2	6:D1:548:LEU:HD22	1.93	0.49
2:A2:980:ARG:HA	6:D1:503:LEU:N	2.21	0.49
1:A3:1190:ILE:CG2	3:A6:615:LEU:O	2.59	0.49
1:A3:1221:ILE:HD11	2:A4:642:ARG:CA	2.41	0.49
1:A3:1227:PRO:HB3	3:A6:552:PHE:HE2	1.72	0.49
1:A3:1249:PHE:HE1	3:A6:584:GLY:H	1.54	0.49
1:A3:1261:TYR:CD1	3:A6:621:GLN:CG	0.88	0.49
1:A3:1394:VAL:CB	3:A6:227:SER:HA	2.42	0.49
2:A4:547:GLU:CG	3:A6:366:ALA:C	2.85	0.49
2:A4:555:VAL:HA	3:A6:456:ASP:HA	1.94	0.49
2:A4:574:ARG:NH1	3:A6:454:GLN:N	2.44	0.49
2:A4:717:VAL:HG23	3:A6:403:ARG:CZ	2.42	0.49
6:D1:606:LYS:N	6:D1:607:PRO:CD	2.74	0.49
6:D6:727:VAL:O	6:D6:731:VAL:HG23	2.12	0.49
6:D7:527:ASN:OD1	11:I3:181:GLN:NE2	2.45	0.49
9:G1:260:THR:O	17:O2:256:TYR:CE1	2.66	0.49
9:G2:256:GLN:HB3	17:O4:261:LYS:N	2.27	0.49
11:I1:656:MET:O	11:I1:659:LYS:NZ	2.44	0.49
11:I1:917:TYR:O	15:M1:588:MET:HB3	2.12	0.49
11:I1:935:GLY:HA3	15:M1:604:ASN:O	2.10	0.49
11:I1:993:SER:OG	15:M1:616:LEU:CD2	2.60	0.49
11:I1:1032:THR:N	20:R1:177:LEU:N	2.54	0.49
11:I1:1043:LEU:CB	16:N1:430:ARG:HB2	2.43	0.49
11:I1:1052:LEU:CA	17:O1:286:ILE:HB	2.42	0.49
11:I1:1543:LEU:O	12:J2:300:ILE:CA	2.56	0.49
11:I2:389:GLN:N	11:I2:389:GLN:OE1	2.46	0.49
11:I2:873:ILE:O	17:O3:254:ARG:HB3	2.12	0.49
11:I2:1049:LEU:CG	17:O3:291:ASP:OD1	2.59	0.49
11:I2:1051:LYS:CE	17:O3:285:LYS:HD2	2.41	0.49
11:I2:1644:ARG:CD	12:J2:275:PHE:CZ	2.96	0.49
11:I3:774:LYS:HG3	29:a2:38:ASP:OD1	2.12	0.49
11:I4:1282:PHE:HD1	29:a3:23[A]:PRO:HB2	1.72	0.49
11:I5:1644:ARG:CD	12:J5:275:PHE:CZ	2.96	0.49
21:S1:682:ASN:CA	21:S1:684:THR:HA	2.41	0.49
21:S2:429:SER:HB2	21:S2:436:SER:OG	2.12	0.49
23:U2:38:ILE:HD12	31:c4:555:VAL:CG1	2.41	0.49
23:U2:354:SER:O	23:U2:358:VAL:HG23	2.11	0.49
23:U2:433:ALA:O	23:U2:435:PHE:N	2.44	0.49
24:V1:281:ILE:HB	24:V1:301:LEU:HD21	1.93	0.49
24:V1:374:LYS:O	24:V1:377:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:397:GLU:OE1	24:V2:397:GLU:N	2.40	0.49
24:V3:526:HIS:C	24:V3:530:ARG:HD2	2.37	0.49
25:W4:57:TRP:HD1	25:W4:102:VAL:O	1.95	0.49
26:X1:158:PHE:O	26:X1:162:VAL:HG23	2.12	0.49
26:X1:306:TRP:O	26:X1:310:VAL:HG23	2.12	0.49
26:X2:278:CYS:SG	26:X2:323:ASP:HB2	2.53	0.49
28:Z1:526:ARG:CB	30:b1:206:ASN:CB	2.66	0.49
28:Z3:522:ASN:HB2	30:b3:240:LEU:HB3	1.91	0.49
28:Z3:639:LEU:HD23	30:b3:232:PRO:CG	2.42	0.49
28:Z4:53:GLY:HA2	28:Z4:73:SER:HA	1.94	0.49
28:Z4:258:ASP:OD1	28:Z4:260:VAL:HG22	2.11	0.49
30:b1:55:GLY:H	30:b1:384:ARG:NH1	2.09	0.49
30:b3:162:ASP:HA	30:b3:186:PRO:HB3	1.94	0.49
1:A3:1117:ILE:HG21	3:A6:592:ASP:OD2	2.04	0.49
1:A3:1128:ASP:OD2	3:A6:607:ARG:CZ	2.60	0.49
1:A3:1203:TYR:H	3:A6:91:LEU:HG	1.57	0.49
1:A3:1204:TRP:CH2	3:A6:95:TYR:C	2.79	0.49
1:A3:1251:VAL:O	3:A6:634:ASP:HB2	2.12	0.49
2:A4:86:ASN:CG	3:A6:393:HIS:C	2.63	0.49
2:A4:646:ILE:CD1	3:A6:500:LYS:CG	2.90	0.49
2:A4:684:VAL:HG13	3:A6:403:ARG:NH2	2.11	0.49
2:A4:777:LEU:CD1	3:A6:467:LEU:CD1	2.38	0.49
2:A4:876:ARG:N	6:D3:565:MET:C	2.70	0.49
2:A4:879:LEU:HD13	6:D3:564:ASN:HD21	1.77	0.49
2:A4:1305:ALA:CB	2:A4:1306:PRO:HD3	2.37	0.49
6:D3:639:LEU:HD22	6:D3:689:PHE:CG	2.47	0.49
6:D6:639:LEU:HD22	6:D6:689:PHE:CG	2.47	0.49
6:D7:727:VAL:O	6:D7:731:VAL:HG23	2.12	0.49
8:F1:1091:SER:OG	17:O2:238:ALA:C	2.55	0.49
8:F1:1165:VAL:HG12	8:F1:1166:GLY:H	1.75	0.49
11:I1:931:VAL:O	15:M1:604:ASN:CA	2.59	0.49
11:I1:950:LEU:CD2	15:M1:606:LEU:CD2	2.90	0.49
11:I1:980:ILE:CG1	15:M1:622:VAL:N	2.75	0.49
11:I2:1052:LEU:H	17:O3:286:ILE:N	2.09	0.49
11:I2:1104:LEU:CD1	16:N3:433:GLU:OE2	2.61	0.49
11:I4:389:GLN:N	11:I4:389:GLN:OE1	2.45	0.49
11:I4:813:ILE:HG13	26:X3:496:THR:CG2	1.94	0.49
17:O3:148:ARG:HH11	18:P3:325:ILE:C	2.21	0.49
21:S1:671:ALA:CB	21:S2:1143:VAL:HA	2.42	0.49
22:T4:781:THR:CG2	22:T4:784:GLU:H	2.26	0.49
23:U1:399:ILE:HG13	31:c2:556:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:405:GLU:HA	31:c2:548:VAL:CB	2.41	0.49
24:V1:526:HIS:C	24:V1:530:ARG:HD2	2.37	0.49
24:V3:374:LYS:O	24:V3:377:GLU:HB2	2.12	0.49
25:W1:214:PRO:HG2	25:W1:264:LEU:HA	1.93	0.49
26:X2:158:PHE:O	26:X2:162:VAL:HG23	2.12	0.49
26:X2:309:LEU:N	34:i:396:HIS:O	2.45	0.49
26:X2:361:LEU:CD1	34:i:445:GLN:HG3	2.02	0.49
26:X2:365:ILE:HA	34:i:421:ILE:CD1	2.33	0.49
26:X3:228:PHE:HE2	26:X3:267:ARG:HB3	1.77	0.49
26:X4:110:GLY:O	26:X4:114:ILE:HG13	2.12	0.49
26:X4:278:CYS:SG	26:X4:323:ASP:HB2	2.53	0.49
26:X4:306:TRP:O	26:X4:310:VAL:HG23	2.12	0.49
27:Y1:67:GLU:OE1	27:Y1:119:ALA:HB1	2.12	0.49
27:Y4:218:ILE:HG22	27:Y4:233:THR:HG22	1.94	0.49
28:Z1:522:ASN:O	28:Z1:526:ARG:HG3	2.12	0.49
28:Z1:554:PHE:HD1	30:b1:232:PRO:HB2	1.71	0.49
30:b3:192:PHE:HE1	30:b3:200:LEU:HD22	1.77	0.49
31:c5:243:MET:HE3	31:c5:247:LEU:HD11	1.94	0.49
1:A1:1393:THR:OG1	2:A2:851:ASP:CG	2.55	0.49
2:A2:826:ASN:CB	6:D1:633:LYS:O	2.59	0.49
2:A2:980:ARG:HB3	2:A2:981:PRO:HD2	1.92	0.49
2:A2:1132:PRO:O	3:A5:138:LEU:HB3	2.11	0.49
1:A3:1231:VAL:HG22	3:A6:613:ALA:O	2.12	0.49
1:A3:1280:GLN:HE21	3:A6:571:ARG:HD2	1.78	0.49
2:A4:80:LYS:HG3	3:A6:323:THR:OG1	2.12	0.49
2:A4:80:LYS:HB3	3:A6:386:ALA:C	2.13	0.49
2:A4:619:CYS:SG	3:A6:512:GLU:N	2.82	0.49
2:A4:775:LEU:HD11	3:A6:478:ASP:O	2.12	0.49
2:A4:802:TYR:CG	3:A6:397:LEU:CB	2.95	0.49
2:A4:973:GLU:HG3	6:D3:192:TYR:CE2	2.46	0.49
2:A4:1305:ALA:HB1	2:A4:1306:PRO:CD	2.36	0.49
3:A5:1360:GLY:H	28:Z2:879:PHE:N	2.06	0.49
3:A5:1368:GLN:CB	28:Z2:841:ALA:O	2.61	0.49
3:A5:1368:GLN:CA	28:Z2:844:CYS:CB	2.90	0.49
3:A6:842:ARG:HG2	8:F2:776:HIS:HE1	1.77	0.49
6:D7:646:LEU:HD22	6:D7:696:ILE:CD1	2.42	0.49
11:I1:288:ILE:O	11:I1:292:GLY:N	2.46	0.49
11:I1:389:GLN:N	11:I1:389:GLN:OE1	2.45	0.49
11:I1:877:ILE:CB	17:O1:254:ARG:H	1.70	0.49
11:I1:927:HIS:CD2	15:M1:594:LYS:C	2.88	0.49
11:I1:1603:ARG:CZ	11:I2:1662:ARG:CD	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1665:LEU:CG	11:I2:1667:GLN:CD	2.83	0.49
11:I2:887:GLN:CB	17:O3:243:LEU:HD23	2.43	0.49
11:I2:947:LEU:HA	16:N3:407:ALA:HA	1.89	0.49
11:I2:962:ILE:CD1	15:M3:596:ILE:CG2	2.79	0.49
11:I2:992:ILE:H	15:M3:608:LYS:HE3	1.78	0.49
11:I2:1034:ASP:OD1	11:I2:1035:GLN:N	2.44	0.49
11:I2:1037:THR:CG2	20:R3:170:LEU:H	2.25	0.49
11:I2:1111:ALA:N	16:N3:439:ARG:N	2.60	0.49
11:I4:1270:LYS:CD	26:X3:527:VAL:CB	2.83	0.49
11:I5:535:ASP:O	25:W2:8:HIS:N	2.46	0.49
11:I5:816:ASP:OD1	11:I5:817:ASP:N	2.42	0.49
21:S1:1052:LEU:HA	21:S1:1055:LEU:CD2	2.42	0.49
21:S3:418:TYR:N	21:S3:418:TYR:CD1	2.81	0.49
22:T1:751:ARG:NE	31:c5:59:ASP:HA	2.15	0.49
23:U2:48:GLN:HB2	31:c4:472:GLU:HB3	1.95	0.49
24:V2:433:GLU:OE1	24:V2:467:SER:OG	2.20	0.49
24:V3:523:THR:HA	24:V3:526:HIS:HB2	1.95	0.49
26:X2:110:GLY:O	26:X2:114:ILE:HG13	2.12	0.49
26:X2:290:GLU:CA	34:i:492:TRP:NE1	2.69	0.49
27:Y1:77:TYR:HA	27:Y1:110:SER:HB3	1.95	0.49
27:Y4:77:TYR:HA	27:Y4:110:SER:HB3	1.95	0.49
28:Z1:535:ILE:CD1	30:b1:182:PRO:CG	2.88	0.49
28:Z1:539:GLU:HA	30:b1:163:ASP:OD2	2.11	0.49
28:Z3:102:MET:HE3	28:Z3:163:PRO:HD2	1.95	0.49
28:Z3:188:LYS:HE2	28:Z3:191:GLY:HA2	1.95	0.49
28:Z4:591:MET:HE1	28:Z4:630:THR:OG1	2.12	0.49
30:b2:192:PHE:HE1	30:b2:200:LEU:HD22	1.76	0.49
31:c4:297:LEU:HG	31:c4:389:LEU:HD21	1.95	0.49
1:A1:834:GLU:OE1	6:D3:302:PRO:HG3	2.11	0.49
1:A1:1221:ILE:HG13	2:A2:723:PHE:CZ	2.47	0.49
2:A2:227:SER:HB3	6:D1:712:ASP:H	1.76	0.49
2:A2:227:SER:OG	6:D1:711:PHE:HB3	2.10	0.49
2:A2:874:VAL:HG11	6:D1:611:LYS:CB	2.21	0.49
1:A3:1201:ARG:HG3	2:A4:728:LYS:O	1.93	0.49
1:A3:1220:PRO:HB2	2:A4:672:ARG:NE	2.28	0.49
1:A3:1230:TYR:CE2	3:A6:605:TYR:HB2	2.47	0.49
1:A3:1282:PHE:HB2	3:A6:625:LEU:HB3	1.93	0.49
2:A4:616:ALA:HB2	3:A6:509:LYS:HB2	1.89	0.49
2:A4:713:ILE:CG2	3:A6:403:ARG:NE	2.71	0.49
2:A4:717:VAL:HG12	3:A6:493:ALA:HA	1.95	0.49
2:A4:733:GLY:HA3	3:A6:93:ASP:C	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1151:THR:CB	5:C6:733:LEU:HD12	2.41	0.49
3:A6:1390:LEU:O	28:Z4:910:GLN:O	2.30	0.49
6:D2:727:VAL:O	6:D2:731:VAL:HG23	2.12	0.49
9:G1:254:ASN:OD1	15:M2:605:THR:HB	2.04	0.49
11:I1:837:MET:HE2	17:O1:242:ARG:N	2.12	0.49
11:I1:877:ILE:CG2	17:O1:254:ARG:N	2.75	0.49
11:I1:951:LYS:CG	17:O1:253:LEU:HD11	2.42	0.49
11:I1:998:ALA:CB	17:O1:267:ALA:CB	2.84	0.49
11:I1:1064:LYS:O	17:O1:274:GLY:CA	2.60	0.49
11:I1:1644:ARG:CD	12:J1:275:PHE:CZ	2.96	0.49
11:I2:288:ILE:O	11:I2:292:GLY:N	2.46	0.49
11:I2:877:ILE:HB	17:O3:252:VAL:C	2.36	0.49
11:I2:931:VAL:CB	15:M3:600:ASN:C	2.69	0.49
11:I2:934:LEU:O	17:O3:261:LYS:HD2	2.11	0.49
11:I2:1067:PHE:CD1	16:N3:430:ARG:CA	2.96	0.49
17:O4:111:TYR:HA	18:P4:325:ILE:HD12	1.95	0.49
17:O4:111:TYR:HA	18:P4:325:ILE:CD1	2.43	0.49
18:P4:233:GLN:HB2	18:P4:236:GLN:NE2	2.28	0.49
21:S2:950:HIS:CE1	21:S2:995:MET:HE1	2.45	0.49
21:S3:1052:LEU:HA	21:S3:1055:LEU:CD2	2.42	0.49
22:T1:745:ARG:N	31:c5:27:MET:SD	2.85	0.49
23:U1:26:GLN:CD	31:c2:483:ASP:CA	2.83	0.49
23:U2:394:ILE:HG23	31:c4:535:VAL:HG22	1.84	0.49
23:U2:397:ASP:HB2	31:c4:537:THR:OG1	2.12	0.49
23:U3:50:ALA:HB1	23:U3:69:GLU:HG3	1.93	0.49
24:V2:523:THR:HA	24:V2:526:HIS:HB2	1.95	0.49
26:X2:201:ARG:CZ	34:i:447:CYS:N	2.74	0.49
26:X2:280:VAL:HG11	34:i:84:ARG:NH2	2.28	0.49
26:X2:306:TRP:NE1	34:i:415:SER:HB3	2.28	0.49
26:X3:278:CYS:SG	26:X3:323:ASP:HB2	2.53	0.49
27:Y4:41:ASP:HB2	29:a4:231[B]:HIS:HE1	1.64	0.49
28:Z1:591:MET:HE1	28:Z1:630:THR:OG1	2.12	0.49
28:Z1:772:GLN:CB	30:b1:136:PHE:CE1	2.95	0.49
28:Z2:258:ASP:OD1	28:Z2:260:VAL:HG22	2.11	0.49
28:Z2:522:ASN:HB2	30:b2:240:LEU:HB3	1.91	0.49
28:Z4:91:LYS:NZ	28:Z4:142:ALA:O	2.30	0.49
28:Z4:102:MET:HE3	28:Z4:163:PRO:HD2	1.95	0.49
28:Z4:438:GLU:HB3	30:b4:314:PRO:HD2	1.93	0.49
28:Z4:526:ARG:O	30:b4:184:SER:OG	2.30	0.49
28:Z4:558:LEU:O	30:b4:234:LEU:O	2.29	0.49
30:b3:280:TRP:CD1	30:b3:305:PRO:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:c4:331:ILE:CG2	31:c4:340:GLN:HB2	2.41	0.49
33:h:241:LEU:HD12	33:h:241:LEU:N	2.27	0.49
1:A1:780:GLU:HG3	1:A1:822:ILE:CG2	2.43	0.49
1:A1:1220:PRO:HD2	2:A2:646:ILE:C	2.05	0.49
2:A2:227:SER:HB3	6:D1:711:PHE:CA	2.42	0.49
2:A2:809:THR:HB	2:A2:810:PRO:HD3	1.95	0.49
2:A2:864:ARG:CG	6:D1:609:ILE:HB	2.18	0.49
1:A3:1086:LYS:HE2	6:D3:800:PRO:HD3	1.95	0.49
1:A3:1189:LEU:CD1	3:A6:641:ALA:HA	2.38	0.49
1:A3:1196:GLU:OE1	3:A6:611:ILE:HB	2.12	0.49
1:A3:1228:TYR:C	3:A6:574:ARG:HB2	2.37	0.49
2:A4:544:PHE:N	3:A6:365:MET:N	2.41	0.49
2:A4:607:ARG:C	3:A6:506:SER:CA	2.58	0.49
2:A4:689:LYS:CA	3:A6:381:LEU:HD21	2.36	0.49
2:A4:705:ILE:HD12	3:A6:483:HIS:H	1.77	0.49
2:A4:750:ASN:O	3:A6:93:ASP:CB	2.55	0.49
2:A4:809:THR:HB	2:A4:810:PRO:HD3	1.95	0.49
2:A4:859:GLN:HG2	3:A6:176:LEU:CD1	2.43	0.49
2:A4:871:ASN:O	6:D3:565:MET:O	2.29	0.49
2:A4:889:VAL:CG1	3:A6:171:HIS:HB3	2.10	0.49
2:A4:973:GLU:CB	6:D3:498:GLU:CB	2.90	0.49
2:A4:983:LEU:CB	6:D3:528:PHE:HZ	1.87	0.49
3:A5:919:LEU:HB3	11:I5:61:LYS:NZ	2.28	0.49
3:A6:1371:GLY:N	28:Z4:871:HIS:O	2.28	0.49
6:D3:808:ASN:O	6:D3:812:VAL:HG23	2.13	0.49
8:F1:982:PRO:CB	11:I1:1388:GLU:CG	2.90	0.49
9:G1:252:LEU:O	15:M2:602:MET:CA	2.61	0.49
11:I1:833:PHE:HE2	17:O1:238:ALA:CB	2.09	0.49
11:I1:949:CYS:SG	17:O1:254:ARG:HA	2.53	0.49
11:I1:1038:ILE:HG13	20:R1:167:GLN:CD	2.37	0.49
11:I1:1052:LEU:N	17:O1:286:ILE:CB	2.68	0.49
11:I2:883:ALA:HB3	17:O3:246:LEU:CB	2.08	0.49
11:I2:997:SER:HB2	17:O3:270:THR:HG21	1.93	0.49
11:I2:1045:PHE:CD1	17:O3:279:ILE:CG2	2.95	0.49
11:I2:1054:ILE:CG2	17:O3:278:GLU:CB	2.48	0.49
11:I4:1083:GLU:OE1	11:I4:1083:GLU:N	2.42	0.49
17:O3:162:LYS:HG3	18:P3:315:GLU:CD	2.30	0.49
21:S1:1012:LEU:HA	21:S1:1015:GLU:HB2	1.95	0.49
21:S2:418:TYR:N	21:S2:418:TYR:CD1	2.80	0.49
21:S4:1052:LEU:HA	21:S4:1055:LEU:CD2	2.42	0.49
21:S4:1070:LYS:HZ3	21:S4:1121:GLU:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:826:GLY:HA2	31:c5:23:ARG:NH2	2.16	0.49
23:U1:26:GLN:HE22	31:c2:483:ASP:HA	1.65	0.49
23:U3:349:SER:OG	23:U3:358:VAL:HG21	2.13	0.49
23:U4:233:THR:HG22	23:U4:234:GLN:O	2.12	0.49
25:W1:174:VAL:HA	25:W1:183:LYS:O	2.12	0.49
25:W3:62:ALA:HB2	25:W3:107:TRP:CE2	2.46	0.49
25:W4:174:VAL:HA	25:W4:183:LYS:O	2.12	0.49
26:X1:228:PHE:HE2	26:X1:267:ARG:HB3	1.77	0.49
26:X2:307:LYS:O	34:i:401:CYS:O	2.29	0.49
27:Y1:30:ASP:OD1	27:Y1:32:HIS:HB2	2.13	0.49
28:Z1:188:LYS:HE2	28:Z1:191:GLY:HA2	1.95	0.49
28:Z1:527:SER:HA	30:b1:204:GLU:HB2	1.95	0.49
28:Z2:188:LYS:HE2	28:Z2:191:GLY:HA2	1.95	0.49
1:A1:871:ASN:CA	6:D3:279:HIS:H	2.22	0.49
2:A2:780:GLU:HB3	6:D1:677:GLN:HB3	1.89	0.49
2:A2:865:ALA:O	6:D1:598:ILE:HD13	2.11	0.49
2:A2:978:ASP:OD2	6:D1:473:GLU:O	2.31	0.49
2:A2:979:GLY:C	6:D1:472:PHE:HB2	2.05	0.49
2:A2:1143:LEU:CA	3:A5:130:ILE:O	2.57	0.49
1:A3:1120:ASP:HB3	3:A6:595:GLU:O	2.13	0.49
1:A3:1163:TYR:C	3:A6:647:GLU:CB	2.71	0.49
1:A3:1170:ILE:H	3:A6:591:ASP:HA	1.74	0.49
1:A3:1188:ASN:HB2	3:A6:642:ARG:C	2.37	0.49
2:A4:536:ALA:H	3:A6:369:SER:CA	2.21	0.49
2:A4:764:MET:HB2	3:A6:475:TYR:CD1	2.47	0.49
2:A4:799:ASP:OD1	3:A6:316:ARG:CA	2.50	0.49
2:A4:886:PHE:CZ	3:A6:176:LEU:CD1	2.95	0.49
2:A4:888:GLN:NE2	3:A6:172:PRO:HG2	2.27	0.49
3:A5:997:ASP:N	11:I5:61:LYS:HB2	2.28	0.49
3:A5:999:SER:CB	11:I5:64:LYS:HG3	2.36	0.49
3:A5:1415:PHE:O	28:Z2:962:LYS:N	2.45	0.49
3:A6:444:ARG:C	6:D3:719:LEU:CA	2.60	0.49
3:A6:520:GLU:HA	6:D3:639:LEU:HD11	0.53	0.49
3:A6:521:ASN:H	6:D3:639:LEU:CD2	2.16	0.49
6:D3:727:VAL:O	6:D3:731:VAL:HG23	2.12	0.49
8:F1:1392:LEU:N	8:F1:1393:PRO:HD2	2.27	0.49
9:G1:263:MET:CB	16:N2:411:GLN:HB3	2.43	0.49
11:I1:936:LYS:HG3	15:M1:605:THR:HG22	1.95	0.49
11:I1:959:SER:OG	16:N1:395:GLU:CB	2.61	0.49
11:I1:987:GLY:H	15:M1:613:ASP:CB	2.18	0.49
11:I1:1608:SER:O	12:J2:299:GLY:HA2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:980:ILE:N	20:R3:147:LEU:HD12	2.20	0.49
11:I2:1021:ILE:CA	16:N3:406:HIS:HE1	2.00	0.49
11:I2:1045:PHE:HB2	15:M3:619:ILE:CD1	2.42	0.49
17:O3:158:GLU:HG2	18:P3:316:LEU:H	1.49	0.49
21:S1:654:LYS:C	21:S2:1154:GLY:C	2.75	0.49
21:S2:992:ILE:HG12	21:S2:992:ILE:O	2.13	0.49
22:T2:781:THR:CG2	22:T2:784:GLU:H	2.26	0.49
23:U2:359:ILE:HG22	31:c4:544:VAL:C	2.38	0.49
26:X2:204:PHE:HZ	34:i:444:GLU:HG3	1.68	0.49
26:X2:279:ALA:C	34:i:15:GLN:H	2.18	0.49
26:X2:291:LEU:O	34:i:415:SER:CB	2.51	0.49
26:X2:295:TYR:CE2	34:i:419:THR:HG23	2.47	0.49
27:Y2:312:TRP:CZ3	27:Y2:319:LEU:HB2	2.48	0.49
27:Y4:30:ASP:OD1	27:Y4:32:HIS:HB2	2.13	0.49
28:Z2:401:THR:CB	30:b2:253:SER:N	2.76	0.49
28:Z3:394:ASP:OD2	30:b3:241:PRO:O	2.30	0.49
28:Z3:401:THR:CB	30:b3:253:SER:N	2.76	0.49
28:Z3:531:LYS:CG	30:b3:182:PRO:O	2.61	0.49
28:Z4:639:LEU:HD23	30:b4:232:PRO:CG	2.42	0.49
28:Z4:772:GLN:CB	30:b4:136:PHE:CE1	2.95	0.49
30:b1:258:VAL:HG13	30:b1:270:ALA:HB2	1.93	0.49
30:b4:192:PHE:HE1	30:b4:200:LEU:HD22	1.77	0.49
31:c3:243:MET:HE3	31:c3:247:LEU:HD11	1.94	0.49
1:A1:1223:GLU:HG2	2:A2:724:LEU:CB	2.37	0.49
2:A2:780:GLU:CB	6:D1:679:ILE:N	2.70	0.49
2:A2:1135:ARG:HH11	3:A5:158:ALA:HB2	1.74	0.49
2:A2:1135:ARG:HA	3:A5:147:LEU:CD2	2.42	0.49
1:A3:1166:LEU:HD21	3:A6:598:VAL:HB	1.95	0.49
1:A3:1197:ALA:CB	2:A4:728:LYS:NZ	2.75	0.49
1:A3:1201:ARG:CB	3:A6:549:ALA:HB2	2.25	0.49
1:A3:1254:LEU:HG	3:A6:638:GLU:HG3	1.87	0.49
1:A3:1257:VAL:CG1	3:A6:620:GLY:H	1.97	0.49
2:A4:552:PHE:O	3:A6:434:PHE:O	2.29	0.49
2:A4:556:PRO:CG	3:A6:454:GLN:HB3	2.42	0.49
2:A4:670:SER:N	3:A6:542:LEU:HG	2.17	0.49
2:A4:712:THR:HB	3:A6:436:PRO:C	2.26	0.49
2:A4:778:PHE:HB2	3:A6:487:ASP:CG	2.32	0.49
2:A4:818:LEU:CD2	3:A6:146:LYS:HZ2	2.25	0.49
2:A4:897:ASN:N	3:A6:178:GLY:CA	2.70	0.49
2:A4:955:CYS:SG	4:B6:345:LYS:N	2.81	0.49
2:A4:973:GLU:OE1	6:D3:192:TYR:CE2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:999:SER:OG	11:I5:63:PRO:HG2	2.13	0.49
3:A5:1030:THR:HA	11:I5:70:GLU:O	2.12	0.49
3:A5:1050:TYR:OH	11:I5:70:GLU:CG	2.59	0.49
3:A5:1056:PHE:CZ	11:I5:38:GLN:CA	2.95	0.49
3:A5:1313:LYS:HB2	28:Z2:830:LEU:HA	1.93	0.49
3:A5:1369:ILE:CB	28:Z2:831:LEU:H	1.96	0.49
3:A6:1395:LYS:C	28:Z4:920:SER:N	2.71	0.49
4:B5:344:ALA:CB	5:C2:740:ARG:HH21	2.13	0.49
6:D1:727:VAL:O	6:D1:731:VAL:HG23	2.13	0.49
6:D5:333:ALA:O	6:D5:337:VAL:HG23	2.13	0.49
8:F1:1202:TYR:CD1	17:O2:252:VAL:HG21	2.35	0.49
8:F2:689:ARG:O	8:F2:699:ARG:N	2.40	0.49
11:I1:843:GLU:CB	15:M1:587:GLU:CD	2.67	0.49
11:I1:849:LEU:CD1	17:O1:247:TRP:CZ3	2.92	0.49
11:I1:966:TRP:HA	20:R1:154:ALA:N	2.28	0.49
11:I1:1017:VAL:N	16:N1:412:ASN:CA	2.70	0.49
11:I1:1021:ILE:CD1	16:N1:410:MET:HE3	2.40	0.49
11:I2:953:LEU:HD23	15:M3:603:SER:OG	1.77	0.49
11:I2:961:ARG:HH22	16:N3:388:LYS:CB	2.18	0.49
11:I3:1276:GLN:HB2	26:X1:522:MET:CE	2.43	0.49
11:I3:1277:LEU:H	26:X1:523:LEU:HG	1.78	0.49
11:I4:1072:ASN:O	11:I4:1076:THR:HG22	2.13	0.49
11:I5:1013:GLU:OE1	11:I5:1013:GLU:N	2.41	0.49
17:O2:142:PHE:HA	17:O2:145:ILE:HG22	1.95	0.49
21:S2:1052:LEU:HA	21:S2:1055:LEU:CD2	2.42	0.49
21:S3:1012:LEU:HA	21:S3:1015:GLU:HB2	1.95	0.49
21:S4:690:PHE:C	21:S4:692:GLU:N	2.71	0.49
22:T1:736:LEU:HB2	31:c5:19:THR:OG1	2.10	0.49
22:T3:781:THR:CG2	22:T3:784:GLU:H	2.26	0.49
23:U1:198:GLU:CD	31:c1:637:ASP:CG	2.69	0.49
23:U2:349:SER:OG	23:U2:358:VAL:HG21	2.13	0.49
23:U4:349:SER:OG	23:U4:358:VAL:HG21	2.13	0.49
24:V2:682:ALA:HB2	31:c2:51:THR:CA	2.42	0.49
24:V4:182:ARG:HD2	24:V4:449:GLN:OE1	2.13	0.49
25:W3:214:PRO:HG2	25:W3:264:LEU:HA	1.93	0.49
26:X1:110:GLY:O	26:X1:114:ILE:HG13	2.12	0.49
26:X2:287:ASP:O	34:i:480[B]:MET:SD	2.71	0.49
27:Y2:41:ASP:N	29:a2:230:GLN:OE1	2.45	0.49
27:Y3:67:GLU:OE1	27:Y3:119:ALA:HB1	2.12	0.49
27:Y3:312:TRP:CZ3	27:Y3:319:LEU:HB2	2.48	0.49
27:Y4:312:TRP:CZ3	27:Y4:319:LEU:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:53:GLY:HA2	28:Z1:73:SER:HA	1.94	0.49
28:Z2:772:GLN:CB	30:b2:136:PHE:CE1	2.95	0.49
28:Z3:526:ARG:O	30:b3:184:SER:OG	2.30	0.49
29:a2:231[A]:HIS:H	29:a2:231[A]:HIS:CD2	2.28	0.49
30:b2:280:TRP:CD1	30:b2:305:PRO:HA	2.48	0.49
30:b3:283:PHE:HB2	30:b3:299:GLY:N	2.27	0.49
2:A2:874:VAL:HG22	6:D1:611:LYS:CE	2.43	0.49
2:A2:973:GLU:H	6:D1:192:TYR:HE2	1.61	0.49
2:A2:981:PRO:CD	6:D1:504:LYS:N	2.69	0.49
1:A3:1195:PHE:CE2	3:A6:678:LEU:N	2.68	0.49
1:A3:1230:TYR:CE2	3:A6:575:LEU:HD11	2.43	0.49
1:A3:1236:GLN:NE2	3:A6:573:ARG:HH11	2.03	0.49
1:A3:1258:VAL:C	3:A6:621:GLN:CA	2.78	0.49
1:A3:1265:ASN:O	3:A6:552:PHE:CB	2.59	0.49
2:A4:89:LEU:CD2	3:A6:429:LEU:CD1	2.91	0.49
2:A4:95:TYR:HB3	3:A6:365:MET:CA	2.43	0.49
2:A4:616:ALA:CB	3:A6:109:ASP:CB	2.77	0.49
2:A4:683:LEU:HD12	3:A6:510:TYR:CZ	2.48	0.49
2:A4:757:LEU:HG	3:A6:544:PHE:N	2.27	0.49
2:A4:861:GLN:O	6:D3:607:PRO:HD2	2.06	0.49
2:A4:947:LYS:HB3	4:B6:351:GLU:HG2	1.94	0.49
2:A4:983:LEU:CD2	6:D3:528:PHE:CD1	2.96	0.49
3:A6:446:LEU:CG	6:D3:721:PRO:HB3	2.43	0.49
3:A6:522:GLY:CA	6:D3:674:TYR:HA	2.43	0.49
3:A6:862:LEU:HD11	3:A6:904:GLN:HB3	1.95	0.49
11:I1:850:ILE:HG21	15:M1:594:LYS:CG	2.43	0.49
11:I1:874:LEU:C	17:O1:251:ILE:HG22	2.38	0.49
11:I1:1030:ARG:NE	20:R1:179:LYS:HD3	2.26	0.49
11:I1:1041:GLN:CB	15:M1:620:VAL:CB	2.87	0.49
11:I1:1045:PHE:CZ	16:N1:431:VAL:C	2.85	0.49
11:I1:1049:LEU:HG	17:O1:291:ASP:HA	1.91	0.49
11:I1:1055:GLU:CB	17:O1:281:ALA:N	2.75	0.49
11:I1:1057:LYS:H	17:O1:278:GLU:HB2	1.78	0.49
11:I2:301:GLN:OE1	11:I2:301:GLN:N	2.42	0.49
11:I2:702:GLN:OE1	11:I2:702:GLN:N	2.41	0.49
11:I2:887:GLN:HB2	16:N3:393:ILE:HD13	1.93	0.49
11:I2:890:TYR:CB	17:O3:238:ALA:C	2.86	0.49
11:I2:891:LEU:N	17:O3:239:GLN:HB3	2.26	0.49
11:I2:942:HIS:ND1	17:O3:259:ASP:CG	2.69	0.49
11:I2:956:ILE:CG2	20:R3:166:LEU:HB2	2.43	0.49
11:I2:1016:ARG:O	16:N3:408:MET:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1067:PHE:HD1	16:N3:433:GLU:H	1.50	0.49
11:I3:777:SER:HB2	29:a2:40[A]:GLU:HB3	1.80	0.49
11:I4:288:ILE:O	11:I4:292:GLY:N	2.46	0.49
11:I4:1644:ARG:CD	12:J4:275:PHE:CZ	2.96	0.49
11:I5:1277:LEU:O	26:X2:517:ASP:OD1	2.31	0.49
15:M1:495:TRP:CG	16:N1:280:LEU:HD13	2.48	0.49
17:O3:148:ARG:NH2	18:P3:325:ILE:HG21	2.26	0.49
18:P3:233:GLN:HB2	18:P3:236:GLN:NE2	2.28	0.49
21:S1:667:ALA:N	21:S2:1147:ASN:C	2.45	0.49
21:S1:671:ALA:CB	21:S2:1143:VAL:CA	2.91	0.49
21:S2:680:PRO:O	21:S2:681:SER:C	2.56	0.49
21:S2:682:ASN:CA	21:S2:684:THR:HA	2.41	0.49
23:U1:141:THR:HA	31:c1:633:PHE:HZ	1.77	0.49
23:U1:434:THR:CB	31:c2:479:ILE:N	2.76	0.49
23:U2:45:ALA:HA	31:c4:472:GLU:OE1	1.59	0.49
23:U2:157:ASP:OD1	23:U2:163:ARG:NH2	2.46	0.49
23:U3:233:THR:HG22	23:U3:234:GLN:O	2.12	0.49
24:V3:152:ALA:HB3	25:W3:272:SER:OG	2.13	0.49
24:V4:523:THR:HA	24:V4:526:HIS:HB2	1.95	0.49
25:W3:174:VAL:HA	25:W3:183:LYS:O	2.12	0.49
26:X2:287:ASP:CB	34:i:492:TRP:HB3	2.11	0.49
26:X2:295:TYR:HA	34:i:416:VAL:HA	1.93	0.49
26:X2:297:LYS:HG2	34:i:446:LYS:CG	2.38	0.49
26:X3:110:GLY:O	26:X3:114:ILE:HG13	2.12	0.49
27:Y2:311:SER:O	27:Y2:319:LEU:HD12	2.13	0.49
27:Y3:30:ASP:OD1	27:Y3:32:HIS:HB2	2.13	0.49
27:Y4:41:ASP:N	29:a4:230:GLN:OE1	2.45	0.49
28:Z1:394:ASP:OD2	30:b1:241:PRO:O	2.30	0.49
29:a2:6:ALA:HB2	29:a2:373:TYR:CE2	2.47	0.49
30:b1:283:PHE:HB2	30:b1:299:GLY:N	2.27	0.49
1:A1:1055:ARG:NH2	1:A1:1058:GLU:OE1	2.46	0.48
2:A2:867:GLU:CA	6:D1:598:ILE:HG21	2.42	0.48
2:A2:873:PRO:HA	6:D1:563:GLU:HB3	1.95	0.48
2:A2:1126:VAL:HG22	3:A5:135:PHE:CD1	2.47	0.48
1:A3:1268:ASP:N	3:A6:554:GLN:N	2.53	0.48
2:A4:550:VAL:HG23	3:A6:367:ASP:CB	2.17	0.48
2:A4:552:PHE:C	3:A6:456:ASP:O	2.56	0.48
2:A4:707:THR:HG21	3:A6:400:THR:O	2.12	0.48
2:A4:768:SER:HA	3:A6:477:PHE:CA	2.42	0.48
2:A4:868:GLN:CG	6:D3:598:ILE:HD13	2.34	0.48
2:A4:875:LEU:HD13	6:D3:566:PHE:CE2	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1004:HIS:CE1	11:I5:58:ALA:O	2.65	0.48
3:A6:780:GLU:HG3	3:A6:822:ILE:CG2	2.43	0.48
3:A6:1359:LEU:CB	28:Z4:917:ASP:N	2.69	0.48
6:D1:808:ASN:O	6:D1:812:VAL:HG23	2.13	0.48
6:D3:333:ALA:O	6:D3:337:VAL:HG23	2.13	0.48
6:D4:727:VAL:O	6:D4:731:VAL:HG23	2.12	0.48
6:D4:808:ASN:O	6:D4:812:VAL:HG23	2.13	0.48
6:D7:808:ASN:O	6:D7:812:VAL:HG23	2.13	0.48
11:I1:702:GLN:OE1	11:I1:702:GLN:N	2.41	0.48
11:I1:840:LEU:CD2	17:O1:244:GLU:CG	2.90	0.48
11:I1:880:MET:HG2	17:O1:247:TRP:CE3	2.47	0.48
11:I1:896:PRO:CA	17:O1:233:THR:N	2.76	0.48
11:I1:983:LEU:HD13	15:M1:621:ARG:NE	2.28	0.48
11:I1:1032:THR:CA	20:R1:176:ARG:O	2.60	0.48
11:I1:1668:HIS:CB	11:I2:1668:HIS:CB	2.79	0.48
11:I2:930:LEU:HG	15:M3:602:MET:N	2.28	0.48
11:I2:955:LYS:NZ	17:O3:249:ARG:HH21	2.08	0.48
11:I2:978:LYS:CE	20:R3:153:GLN:C	2.85	0.48
11:I2:990:GLU:HB3	17:O3:272:SER:C	2.36	0.48
11:I2:1041:GLN:HE22	15:M3:617:THR:CG2	2.02	0.48
11:I2:1046:HIS:HB2	17:O3:280:GLU:CB	2.43	0.48
11:I3:52:ASP:OD1	11:I3:53:THR:N	2.46	0.48
11:I3:1644:ARG:CD	12:J3:275:PHE:CZ	2.96	0.48
11:I5:389:GLN:OE1	11:I5:389:GLN:N	2.45	0.48
11:I5:702:GLN:OE1	11:I5:702:GLN:N	2.41	0.48
11:I5:1112:SER:HB3	12:J5:241:THR:CB	2.43	0.48
21:S4:176:MET:CE	21:S4:232:LEU:HD13	2.43	0.48
21:S4:418:TYR:N	21:S4:418:TYR:CD1	2.81	0.48
21:S4:429:SER:HB2	21:S4:436:SER:OG	2.12	0.48
23:U1:435:PHE:CD2	31:c2:476:PRO:C	2.49	0.48
24:V1:317:GLY:O	24:V1:320:SER:HB3	2.13	0.48
24:V3:397:GLU:OE1	24:V3:397:GLU:N	2.40	0.48
25:W4:181:LEU:HD23	25:W4:201:GLU:HG2	1.95	0.48
26:X2:208:LEU:HD22	34:i:445:GLN:NE2	2.27	0.48
26:X2:361:LEU:HD22	34:i:441:LEU:CD1	2.37	0.48
26:X2:366:PRO:CD	34:i:421:ILE:CD1	2.87	0.48
26:X3:159:ILE:HG12	26:X3:175:LEU:CB	2.39	0.48
27:Y1:311:SER:O	27:Y1:319:LEU:HD12	2.13	0.48
27:Y2:30:ASP:OD1	27:Y2:32:HIS:HB2	2.13	0.48
27:Y3:77:TYR:HA	27:Y3:110:SER:HB3	1.95	0.48
28:Z1:556:ASN:N	30:b1:212:PHE:CB	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:736:ASN:C	28:Z2:738:ARG:H	2.21	0.48
28:Z3:160:VAL:HG23	28:Z3:161:ARG:N	2.28	0.48
28:Z3:555:LYS:CD	30:b3:212:PHE:CE1	2.96	0.48
28:Z3:772:GLN:CB	30:b3:136:PHE:CE1	2.95	0.48
28:Z4:188:LYS:HE2	28:Z4:191:GLY:HA2	1.95	0.48
30:b4:280:TRP:CD1	30:b4:305:PRO:HA	2.48	0.48
31:c1:243:MET:HE3	31:c1:247:LEU:HD11	1.94	0.48
31:c4:581:CYS:O	31:c4:585:THR:OG1	2.30	0.48
33:h:155:GLN:HG3	33:h:238:VAL:CG2	2.43	0.48
1:A1:832:ASN:OD1	6:D3:298:ASN:HB2	2.05	0.48
1:A1:1324:ASP:OD1	2:A2:853:VAL:HG11	2.13	0.48
2:A2:980:ARG:CA	6:D1:503:LEU:H	2.21	0.48
2:A2:1121:LEU:CB	3:A5:132:ASP:HB2	2.43	0.48
2:A2:1305:ALA:HB3	2:A2:1306:PRO:HD2	1.94	0.48
1:A3:1196:GLU:C	3:A6:609:GLU:CD	2.57	0.48
1:A3:1230:TYR:HB2	2:A4:726:ALA:C	2.33	0.48
1:A3:1244:LEU:CD2	3:A6:633:MET:HE1	2.23	0.48
1:A3:1257:VAL:CG1	3:A6:638:GLU:CD	2.59	0.48
1:A3:1274:ASP:HA	3:A6:555:VAL:HG23	1.15	0.48
1:A3:1280:GLN:HE21	3:A6:571:ARG:HB3	1.77	0.48
2:A4:79:ALA:O	3:A6:321:ASP:CG	2.57	0.48
2:A4:616:ALA:CB	3:A6:109:ASP:OD1	2.39	0.48
2:A4:675:ALA:CB	3:A6:508:LEU:HB2	2.29	0.48
2:A4:718:GLU:HA	3:A6:493:ALA:CB	2.42	0.48
2:A4:721:ARG:CD	3:A6:122:PHE:HZ	2.27	0.48
2:A4:864:ARG:CD	6:D3:610:ASN:H	2.24	0.48
2:A4:897:ASN:CB	3:A6:177:ILE:O	2.60	0.48
2:A4:901:ALA:CB	3:A6:133:LYS:CE	2.86	0.48
2:A4:978:ASP:H	6:D3:492:VAL:CG1	2.26	0.48
3:A5:1399:ARG:O	28:Z2:919:PHE:CB	2.62	0.48
3:A6:516:TRP:O	6:D3:683:LYS:HD2	2.13	0.48
3:A6:1057:PHE:CD2	3:A6:1096:ILE:HD13	2.48	0.48
6:D2:808:ASN:O	6:D2:812:VAL:HG23	2.13	0.48
6:D4:333:ALA:O	6:D4:337:VAL:HG23	2.13	0.48
8:F1:1261:TYR:CZ	17:O2:263:GLN:HB3	2.46	0.48
11:I1:991:THR:HG23	15:M1:609:GLY:H	1.74	0.48
11:I1:1034:ASP:OD1	11:I1:1035:GLN:N	2.44	0.48
11:I1:1036:PRO:CD	16:N1:441:PHE:CE2	2.96	0.48
11:I1:1103:LEU:HB3	20:R1:174:ARG:HB3	1.95	0.48
11:I2:963:LEU:HD13	15:M3:628:ALA:HB2	1.95	0.48
11:I2:993:SER:HB2	17:O3:271:GLU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1030:ARG:CA	20:R3:172:ASP:C	2.82	0.48
11:I2:1052:LEU:O	17:O3:286:ILE:N	2.39	0.48
11:I2:1055:GLU:C	17:O3:278:GLU:HG2	2.38	0.48
11:I2:1113:LEU:HD13	17:O3:279:ILE:HG23	1.95	0.48
11:I3:816:ASP:OD1	11:I3:817:ASP:N	2.42	0.48
11:I3:1274:HIS:O	26:X1:534:ILE:CG2	2.59	0.48
17:O1:142:PHE:HA	17:O1:145:ILE:HG22	1.94	0.48
17:O3:137:VAL:HG21	18:P3:326:GLN:HG2	1.95	0.48
21:S2:1012:LEU:HA	21:S2:1015:GLU:HB2	1.95	0.48
21:S4:992:ILE:O	21:S4:992:ILE:HG12	2.13	0.48
23:U2:410:SER:C	31:c4:541:ARG:CA	2.79	0.48
23:U4:379:ILE:HG13	23:U4:385:LEU:HD23	1.94	0.48
25:W1:181:LEU:HD23	25:W1:201:GLU:HG2	1.95	0.48
25:W2:229:ARG:HB2	25:W2:229:ARG:HH11	1.78	0.48
26:X2:192:LEU:CA	34:i:443:THR:CG2	2.90	0.48
28:Z1:24:VAL:HG11	28:Z1:143:ASN:HA	1.95	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:N	2.28	0.48
28:Z2:24:VAL:HG11	28:Z2:143:ASN:HA	1.95	0.48
28:Z2:522:ASN:O	28:Z2:526:ARG:HG3	2.13	0.48
28:Z2:555:LYS:CD	30:b2:212:PHE:CE1	2.96	0.48
28:Z3:53:GLY:HA2	28:Z3:73:SER:HA	1.94	0.48
28:Z4:555:LYS:CD	30:b4:212:PHE:CE1	2.96	0.48
28:Z4:967:PHE:HA	28:Z4:978:ALA:HB2	1.95	0.48
31:c5:575:LEU:HB3	31:c5:609:VAL:CG2	2.44	0.48
1:A3:1162:ASN:O	3:A6:648:TYR:C	2.47	0.48
1:A3:1186:TRP:CH2	3:A6:583:LEU:CD2	2.96	0.48
1:A3:1189:LEU:H	3:A6:642:ARG:HA	1.77	0.48
1:A3:1238:ILE:CG2	3:A6:640:LEU:CD1	2.89	0.48
2:A4:80:LYS:HG2	3:A6:323:THR:OG1	2.12	0.48
2:A4:85:VAL:HG22	3:A6:405:PHE:CE1	2.48	0.48
2:A4:85:VAL:C	3:A6:394:LEU:O	2.56	0.48
2:A4:648:TYR:HB2	3:A6:503:GLN:HA	1.95	0.48
2:A4:682:ARG:HA	3:A6:432:VAL:CA	2.05	0.48
2:A4:692:VAL:CA	3:A6:379:VAL:O	2.53	0.48
2:A4:692:VAL:HA	3:A6:379:VAL:CG2	2.31	0.48
2:A4:720:LEU:CG	3:A6:494:PRO:HB3	2.35	0.48
2:A4:768:SER:N	3:A6:475:TYR:O	2.46	0.48
2:A4:780:GLU:OE1	3:A6:523:ASN:HA	1.77	0.48
2:A4:781:ARG:CD	6:D3:633:LYS:CE	2.91	0.48
2:A4:792:VAL:CB	3:A6:187:THR:CB	2.91	0.48
2:A4:857:LYS:HD3	3:A6:129:ASN:HB2	1.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:873:PRO:CB	6:D3:572:GLU:OE2	2.62	0.48
2:A4:1094:ILE:HG12	6:D4:759:GLN:CD	2.38	0.48
3:A5:186:ILE:HD12	5:C2:744:PHE:CA	2.43	0.48
3:A5:222:ALA:HB1	5:C2:739:MET:HE2	1.95	0.48
3:A6:444:ARG:NH2	6:D3:736:ASN:HD21	2.11	0.48
6:D5:727:VAL:O	6:D5:731:VAL:HG23	2.12	0.48
8:F1:1392:LEU:HD23	17:O2:266:GLN:HE22	1.73	0.48
9:G1:262:SER:N	17:O2:256:TYR:CE1	2.73	0.48
11:I1:300:LEU:O	11:I1:300:LEU:HD23	2.14	0.48
11:I1:947:LEU:HG	16:N1:407:ALA:C	2.38	0.48
11:I1:981:VAL:N	15:M1:621:ARG:CD	2.72	0.48
11:I1:1042:LEU:CA	20:R1:170:LEU:HD11	2.42	0.48
11:I1:1669:ARG:CD	11:I2:1605:LEU:CD1	2.60	0.48
11:I2:918:SER:OG	16:N3:389:PHE:N	2.46	0.48
11:I2:952:LEU:HD12	15:M3:599:ILE:HG23	1.94	0.48
11:I2:964:SER:CA	20:R3:153:GLN:NE2	2.76	0.48
11:I2:966:TRP:HA	20:R3:153:GLN:HB3	1.92	0.48
11:I2:980:ILE:H	20:R3:147:LEU:HD12	1.78	0.48
11:I2:983:LEU:CD1	15:M3:621:ARG:HH21	2.25	0.48
11:I2:1049:LEU:HD21	17:O3:291:ASP:OD2	2.14	0.48
11:I3:1072:ASN:O	11:I3:1076:THR:HG22	2.13	0.48
11:I5:1072:ASN:O	11:I5:1076:THR:HG22	2.13	0.48
15:M3:495:TRP:CG	16:N3:280:LEU:HD13	2.48	0.48
17:O2:110:LEU:HG	18:P2:322:LYS:HA	1.95	0.48
17:O3:151:LEU:HD23	18:P3:325:ILE:HD11	1.91	0.48
21:S2:964:PHE:HE1	21:S2:1002:LEU:HD22	1.78	0.48
21:S3:964:PHE:HE1	21:S3:1002:LEU:HD22	1.78	0.48
21:S3:1119:LEU:C	21:S3:1121:GLU:N	2.71	0.48
22:T1:816:LYS:HB3	31:c5:58:ARG:NH1	2.28	0.48
22:T1:828:TRP:O	22:T1:850:ARG:HD2	2.13	0.48
23:U1:435:PHE:CD1	31:c2:477:GLU:O	2.46	0.48
23:U2:24:ILE:O	31:c4:489:LEU:HB2	2.13	0.48
23:U2:78:VAL:HG11	31:c4:553:LEU:HA	1.96	0.48
23:U2:379:ILE:HG13	23:U2:385:LEU:HD23	1.94	0.48
23:U2:435:PHE:CA	31:c4:536:CYS:SG	2.92	0.48
24:V2:182:ARG:HD2	24:V2:449:GLN:OE1	2.13	0.48
24:V3:182:ARG:HD2	24:V3:449:GLN:OE1	2.13	0.48
26:X2:64:LYS:HD3	27:Y2:324:ASP:HB3	1.95	0.48
26:X2:197:VAL:HG22	34:i:442:SER:HA	0.49	0.48
26:X2:208:LEU:HD23	34:i:445:GLN:CA	2.14	0.48
26:X2:329:ARG:NH2	34:i:475:ILE:H	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:228:PHE:HE2	26:X4:267:ARG:HB3	1.77	0.48
27:Y1:34:LYS:HG2	27:Y1:50:SER:HB2	1.96	0.48
28:Z1:736:ASN:C	28:Z1:738:ARG:H	2.21	0.48
28:Z2:407:GLY:HA2	30:b2:252:ALA:H	1.79	0.48
28:Z3:401:THR:CA	30:b3:253:SER:C	2.67	0.48
28:Z3:736:ASN:C	28:Z3:738:ARG:H	2.21	0.48
28:Z4:447:GLU:HG3	30:b4:248:SER:HB3	1.94	0.48
28:Z4:522:ASN:HB2	30:b4:240:LEU:HB3	1.91	0.48
28:Z4:531:LYS:CG	30:b4:182:PRO:O	2.61	0.48
30:b2:279:ARG:HB3	30:b2:307:VAL:HG12	1.96	0.48
31:c3:297:LEU:HG	31:c3:389:LEU:HD21	1.95	0.48
31:c5:297:LEU:HG	31:c5:389:LEU:HD21	1.95	0.48
31:c5:613:LEU:O	31:c5:617:LYS:N	2.47	0.48
2:A2:865:ALA:H	6:D1:607:PRO:CD	2.03	0.48
2:A2:865:ALA:O	6:D1:608:ILE:HD11	2.13	0.48
2:A2:870:HIS:CD2	6:D1:551:PHE:C	2.91	0.48
2:A2:872:ALA:HB3	6:D1:565:MET:CE	2.39	0.48
2:A2:977:VAL:CG2	6:D1:491:HIS:C	2.82	0.48
2:A2:983:LEU:CB	6:D1:528:PHE:HE1	2.13	0.48
1:A3:1054:SER:CB	6:D3:810:ARG:N	2.77	0.48
1:A3:1121:LEU:CA	3:A6:599:ARG:HH21	2.26	0.48
1:A3:1162:ASN:ND2	3:A6:732:GLN:CD	2.71	0.48
1:A3:1183:LEU:CD1	3:A6:635:ARG:HG3	2.31	0.48
1:A3:1188:ASN:N	3:A6:723:PHE:HZ	1.75	0.48
1:A3:1196:GLU:CB	3:A6:610:THR:N	2.63	0.48
1:A3:1280:GLN:NE2	3:A6:571:ARG:HB3	2.29	0.48
2:A4:574:ARG:HG3	3:A6:454:GLN:HB3	1.94	0.48
2:A4:607:ARG:CA	3:A6:506:SER:CA	2.92	0.48
2:A4:689:LYS:O	3:A6:330:LEU:HD11	2.14	0.48
2:A4:952:ARG:H	4:B6:347:LEU:HD23	1.78	0.48
3:A5:146:LYS:HZ3	5:C2:747:PRO:CG	2.26	0.48
3:A5:147:LEU:O	5:C2:747:PRO:HB2	2.04	0.48
3:A5:780:GLU:HG3	3:A5:822:ILE:CG2	2.43	0.48
3:A5:993:ASN:O	11:I5:57:GLU:CG	2.35	0.48
3:A5:1057:PHE:CD2	3:A5:1096:ILE:HD13	2.48	0.48
6:D5:237:PRO:HD2	31:c3:476:PRO:CD	2.44	0.48
6:D5:243:LYS:N	31:c3:470:ARG:HH22	2.10	0.48
6:D6:808:ASN:O	6:D6:812:VAL:HG23	2.13	0.48
8:F1:1262:HIS:HD2	17:O2:259:ASP:OD1	1.83	0.48
11:I1:913:ALA:CB	15:M1:584:GLN:CD	2.86	0.48
11:I1:1663:LYS:CE	11:I2:1659:VAL:O	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:656:MET:O	11:I2:659:LYS:NZ	2.45	0.48
11:I2:1015:TYR:OH	11:I2:1089:TYR:O	2.31	0.48
11:I2:1021:ILE:O	16:N3:406:HIS:CE1	2.67	0.48
17:O3:85:LYS:HD2	17:O3:94:ALA:HB2	1.96	0.48
18:P1:233:GLN:HB2	18:P1:236:GLN:NE2	2.28	0.48
21:S1:992:ILE:HG12	21:S1:992:ILE:O	2.13	0.48
21:S3:992:ILE:O	21:S3:992:ILE:HG12	2.13	0.48
21:S4:882:GLN:C	21:S4:884:ARG:N	2.69	0.48
21:S4:964:PHE:HE1	21:S4:1002:LEU:HD22	1.78	0.48
23:U1:349:SER:OG	23:U1:358:VAL:HG21	2.13	0.48
23:U1:402:GLY:O	31:c2:547:ASN:C	2.57	0.48
23:U2:79:GLU:N	31:c4:553:LEU:CD1	2.73	0.48
23:U2:396:LEU:HD11	31:c4:549:ALA:CA	2.43	0.48
23:U2:413:ILE:N	31:c4:541:ARG:N	2.53	0.48
23:U2:439:SER:C	31:c4:428:ARG:CD	2.83	0.48
23:U3:379:ILE:HG13	23:U3:385:LEU:HD23	1.95	0.48
26:X1:64:LYS:HD3	27:Y1:324:ASP:HB3	1.95	0.48
26:X2:346:ILE:HD11	34:i:422:HIS:CD2	2.49	0.48
26:X3:64:LYS:HD3	27:Y3:324:ASP:HB3	1.95	0.48
27:Y1:41:ASP:N	29:a1:230:GLN:OE1	2.45	0.48
27:Y2:41:ASP:HA	29:a2:231[B]:HIS:NE2	2.17	0.48
27:Y3:196:ARG:HH11	27:Y3:202:LEU:HD21	1.78	0.48
27:Y4:34:LYS:HG2	27:Y4:50:SER:HB2	1.95	0.48
27:Y4:67:GLU:OE1	27:Y4:119:ALA:HB1	2.12	0.48
27:Y4:196:ARG:HH11	27:Y4:202:LEU:HD21	1.78	0.48
28:Z1:541:PRO:HD3	30:b1:165:THR:HG21	1.96	0.48
28:Z2:639:LEU:HD23	30:b2:232:PRO:CG	2.42	0.48
28:Z3:967:PHE:HA	28:Z3:978:ALA:HB2	1.96	0.48
28:Z4:163:PRO:HA	28:Z4:178:LEU:HA	1.95	0.48
30:b1:279:ARG:HB3	30:b1:307:VAL:HG12	1.96	0.48
30:b2:162:ASP:HA	30:b2:186:PRO:HB3	1.94	0.48
32:g:9:ILE:HD11	32:g:291:MET:HE2	1.95	0.48
1:A1:1222:ALA:HA	2:A2:645:PHE:CZ	2.48	0.48
2:A2:1148:ARG:NH2	3:A5:171:HIS:O	2.47	0.48
1:A3:1189:LEU:CA	3:A6:645:PHE:HB2	2.43	0.48
2:A4:555:VAL:N	3:A6:458:THR:OG1	2.33	0.48
2:A4:718:GLU:CB	3:A6:491:VAL:O	2.61	0.48
2:A4:779:ASP:OD2	3:A6:519:LEU:C	2.56	0.48
2:A4:779:ASP:CA	3:A6:487:ASP:N	2.75	0.48
2:A4:820:LYS:HB3	3:A6:148:GLY:N	2.15	0.48
3:A5:1026:PRO:O	11:I5:71:GLU:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:442:ARG:CD	6:D3:692:LEU:CG	2.91	0.48
6:D1:445:LEU:HD12	6:D1:445:LEU:C	2.39	0.48
6:D5:808:ASN:O	6:D5:812:VAL:HG23	2.13	0.48
6:D6:445:LEU:HD12	6:D6:445:LEU:C	2.39	0.48
6:D7:610:ASN:O	6:D7:614:SER:N	2.43	0.48
8:F2:511:ALA:O	8:F2:1008:TYR:N	2.43	0.48
11:I1:884:LEU:HD12	17:O1:246:LEU:CD2	2.29	0.48
11:I1:922:ASP:CA	15:M1:592:LEU:HD23	2.34	0.48
11:I1:1013:GLU:OE1	11:I1:1013:GLU:N	2.41	0.48
11:I1:1021:ILE:CB	16:N1:406:HIS:CE1	2.96	0.48
11:I1:1041:GLN:CG	15:M1:616:LEU:CG	2.80	0.48
11:I1:1072:ASN:O	11:I1:1076:THR:HG22	2.13	0.48
11:I1:1083:GLU:OE1	11:I1:1083:GLU:N	2.42	0.48
11:I1:1112:SER:HB3	12:J1:241:THR:CB	2.43	0.48
11:I2:885:GLU:HA	16:N3:397:GLU:HA	1.95	0.48
11:I2:1054:ILE:HA	17:O3:280:GLU:C	2.38	0.48
11:I2:1069:SER:N	16:N3:429:GLU:N	2.62	0.48
11:I3:300:LEU:O	11:I3:300:LEU:HD23	2.14	0.48
11:I4:52:ASP:OD1	11:I4:53:THR:N	2.46	0.48
11:I4:301:GLN:N	11:I4:301:GLN:OE1	2.42	0.48
11:I5:52:ASP:OD1	11:I5:53:THR:N	2.46	0.48
21:S4:680:PRO:O	21:S4:681:SER:C	2.56	0.48
21:S4:1012:LEU:HA	21:S4:1015:GLU:HB2	1.95	0.48
22:T4:829:MET:O	22:T4:846:MET:HE2	2.14	0.48
23:U1:157:ASP:OD1	23:U1:163:ARG:NH2	2.46	0.48
23:U2:254:ALA:O	24:V2:315:LYS:NZ	2.40	0.48
23:U2:394:ILE:HD13	31:c4:538:LEU:CB	2.42	0.48
24:V1:152:ALA:HB3	25:W1:272:SER:OG	2.13	0.48
24:V1:287:ASN:O	31:c1:11:TYR:CE2	2.66	0.48
24:V1:523:THR:HA	24:V1:526:HIS:HB2	1.94	0.48
24:V2:173:ILE:HD12	24:V2:173:ILE:H	1.78	0.48
24:V3:483:GLU:OE2	24:V3:514:ARG:NH2	2.35	0.48
25:W1:18:ASP:OD1	25:W1:18:ASP:N	2.46	0.48
26:X2:304:ARG:HG2	34:i:317:LEU:HG	1.95	0.48
27:Y2:34:LYS:HG2	27:Y2:50:SER:HB2	1.95	0.48
27:Y3:34:LYS:HG2	27:Y3:50:SER:HB2	1.95	0.48
28:Z1:102:MET:HE3	28:Z1:163:PRO:HD2	1.95	0.48
28:Z1:443:LEU:CD2	30:b1:250:GLY:HA3	2.36	0.48
28:Z1:555:LYS:CD	30:b1:212:PHE:CE1	2.96	0.48
28:Z2:447:GLU:HG3	30:b2:248:SER:HB3	1.94	0.48
28:Z2:541:PRO:HD3	30:b2:165:THR:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:24:VAL:HG23	28:Z3:93:ILE:HG23	1.95	0.48
28:Z3:532:PHE:H	30:b3:184:SER:CA	2.25	0.48
28:Z4:532:PHE:N	30:b4:184:SER:CA	2.77	0.48
31:c1:613:LEU:O	31:c1:617:LYS:N	2.47	0.48
1:A1:1204:TRP:CD1	2:A2:672:ARG:CD	2.90	0.48
2:A2:223:THR:C	6:D1:709:ARG:CZ	2.87	0.48
2:A2:876:ARG:NE	6:D1:559:ASP:H	2.11	0.48
2:A2:965:LYS:HG2	6:D1:196:ILE:O	2.01	0.48
2:A2:989:MSE:HE1	6:D1:240:ASP:CB	2.39	0.48
2:A2:1131:ILE:HA	3:A5:160:ILE:HG12	1.94	0.48
1:A3:1306:PRO:HB2	3:A6:715:GLU:CG	2.38	0.48
1:A3:1386:GLU:C	3:A6:224:PRO:HB2	2.39	0.48
2:A4:87:GLN:HB2	3:A6:392:LEU:HA	1.95	0.48
2:A4:684:VAL:H	3:A6:405:PHE:HE2	1.62	0.48
2:A4:691:LYS:C	3:A6:316:ARG:CZ	2.87	0.48
2:A4:710:LEU:CD2	3:A6:479:VAL:N	2.66	0.48
2:A4:905:MSE:HE3	3:A6:133:LYS:CE	2.44	0.48
3:A5:1155:ASN:HD21	5:C5:735:ILE:HG23	1.78	0.48
3:A5:1408:GLU:H	28:Z2:917:ASP:HA	1.77	0.48
3:A5:1411:ARG:NH2	26:X2:744:MET:C	2.66	0.48
3:A6:518:GLU:CB	6:D3:683:LYS:HD3	2.43	0.48
6:D3:619:LYS:HD3	11:I2:1518:VAL:N	2.26	0.48
6:D7:445:LEU:HD12	6:D7:445:LEU:C	2.39	0.48
11:I1:976:ARG:NH1	15:M1:622:VAL:HA	2.28	0.48
11:I2:978:LYS:HG2	20:R3:151:LYS:HD3	1.96	0.48
11:I2:1038:ILE:HD12	15:M3:617:THR:HG1	1.77	0.48
11:I2:1072:ASN:O	11:I2:1076:THR:HG22	2.13	0.48
11:I2:1425:TYR:OH	11:I2:1482:ASP:OD2	2.23	0.48
11:I3:1277:LEU:CB	26:X1:522:MET:CB	2.90	0.48
11:I4:300:LEU:O	11:I4:300:LEU:HD23	2.14	0.48
12:J3:240:GLY:O	12:J3:241:THR:OG1	2.28	0.48
18:P2:233:GLN:HB2	18:P2:236:GLN:NE2	2.28	0.48
21:S3:176:MET:CE	21:S3:232:LEU:HD13	2.44	0.48
23:U2:25:GLU:OE2	31:c4:570:LEU:HD22	2.13	0.48
24:V1:182:ARG:HD2	24:V1:449:GLN:OE1	2.13	0.48
24:V2:317:GLY:O	24:V2:320:SER:HB3	2.13	0.48
25:W4:118:VAL:O	25:W4:125:VAL:HA	2.14	0.48
26:X2:262:ILE:HG12	26:X2:289:ILE:HG23	1.95	0.48
28:Z1:401:THR:CB	30:b1:253:SER:N	2.76	0.48
28:Z3:558:LEU:O	30:b3:234:LEU:O	2.29	0.48
28:Z4:24:VAL:HG11	28:Z4:143:ASN:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:160:VAL:HG23	28:Z4:161:ARG:H	1.79	0.48
28:Z4:541:PRO:HD3	30:b4:165:THR:HG21	1.96	0.48
29:a1:6:ALA:HB2	29:a1:373:TYR:CE2	2.47	0.48
30:b3:279:ARG:HB3	30:b3:307:VAL:HG12	1.95	0.48
30:b4:280:TRP:CE2	30:b4:305:PRO:HB3	2.49	0.48
31:c1:575:LEU:HB3	31:c1:609:VAL:CG2	2.43	0.48
31:c5:581:CYS:O	31:c5:585:THR:OG1	2.30	0.48
33:h:276:THR:HG22	33:h:277:PHE:N	2.28	0.48
1:A1:1203:TYR:HA	2:A2:732:GLN:HG3	1.09	0.48
1:A1:1224:PRO:HD2	2:A2:731:ILE:HG21	1.95	0.48
2:A2:1138:GLU:CB	3:A5:147:LEU:CG	2.84	0.48
1:A3:862:LEU:HD11	1:A3:904:GLN:CB	2.43	0.48
1:A3:1230:TYR:CE1	3:A6:610:THR:C	2.60	0.48
1:A3:1270:SER:HB3	3:A6:709:LYS:HZ3	0.70	0.48
2:A4:552:PHE:N	3:A6:108:SER:N	2.55	0.48
2:A4:555:VAL:CA	3:A6:456:ASP:OD1	2.60	0.48
2:A4:718:GLU:CG	3:A6:491:VAL:HG12	2.43	0.48
2:A4:766:SER:C	3:A6:470:ARG:C	2.81	0.48
2:A4:778:PHE:C	6:D3:677:GLN:N	2.71	0.48
2:A4:873:PRO:HG2	6:D3:568:ARG:O	2.14	0.48
2:A4:946:LYS:HA	4:B6:348:PRO:HG2	0.59	0.48
2:A4:982:THR:CA	6:D3:502:LEU:CD2	2.71	0.48
2:A4:982:THR:C	6:D3:502:LEU:CD2	2.87	0.48
3:A5:1160:GLN:HB2	5:C5:743:LEU:HD22	1.95	0.48
3:A6:442:ARG:CB	6:D3:691:LEU:C	2.65	0.48
6:D1:333:ALA:O	6:D1:337:VAL:HG23	2.14	0.48
6:D4:615:VAL:HG23	6:D4:616:ALA:N	2.29	0.48
6:D6:333:ALA:O	6:D6:337:VAL:HG23	2.14	0.48
11:I1:797:LEU:HB3	17:O1:245:GLU:OE2	2.13	0.48
11:I1:849:LEU:CD2	17:O1:251:ILE:HD11	2.34	0.48
11:I1:885:GLU:CA	16:N1:397:GLU:OE2	2.36	0.48
11:I1:1015:TYR:OH	11:I1:1089:TYR:O	2.31	0.48
11:I1:1055:GLU:N	17:O1:279:ILE:N	2.23	0.48
11:I2:876:ALA:HB1	17:O3:251:ILE:HG12	1.28	0.48
11:I2:917:TYR:CG	15:M3:587:GLU:O	2.50	0.48
11:I2:930:LEU:CD2	15:M3:597:LYS:O	2.49	0.48
11:I2:990:GLU:H	15:M3:614:ASP:HB3	1.79	0.48
11:I2:1037:THR:OG1	15:M3:624:ASN:ND2	2.45	0.48
11:I3:702:GLN:OE1	11:I3:702:GLN:N	2.41	0.48
11:I3:1112:SER:HB3	12:J3:241:THR:CB	2.43	0.48
11:I5:300:LEU:O	11:I5:300:LEU:HD23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O2:85:LYS:HD2	17:O2:94:ALA:HB2	1.96	0.48
17:O4:112:GLY:O	18:P4:325:ILE:CD1	2.56	0.48
19:Q2:208:GLY:HA3	19:Q2:210:TRP:CZ3	2.48	0.48
21:S1:418:TYR:N	21:S1:418:TYR:CD1	2.81	0.48
21:S1:1075:CYS:HA	21:S1:1078:LEU:HD12	1.96	0.48
21:S2:933:GLU:C	21:S2:933:GLU:CD	2.82	0.48
21:S2:1075:CYS:HA	21:S2:1078:LEU:HD12	1.96	0.48
21:S4:933:GLU:C	21:S4:933:GLU:CD	2.82	0.48
22:T1:833:ARG:HH21	31:c5:20:PRO:CD	2.23	0.48
23:U2:426:TYR:HA	31:c4:463:HIS:CG	2.27	0.48
24:V1:339:LEU:CB	31:c1:627:ASP:N	2.50	0.48
24:V2:152:ALA:HB3	25:W2:272:SER:OG	2.13	0.48
24:V4:317:GLY:O	24:V4:320:SER:HB3	2.13	0.48
25:W2:181:LEU:HD23	25:W2:201:GLU:HG2	1.95	0.48
26:X2:305:GLU:O	34:i:406:HIS:N	2.34	0.48
26:X4:64:LYS:HD3	27:Y4:324:ASP:HB3	1.95	0.48
27:Y1:312:TRP:CZ3	27:Y1:319:LEU:HB2	2.48	0.48
28:Z1:407:GLY:CA	30:b1:251:ILE:CG1	2.89	0.48
28:Z2:102:MET:HE3	28:Z2:163:PRO:HD2	1.95	0.48
28:Z2:438:GLU:HG3	30:b2:333:HIS:HE1	1.77	0.48
28:Z2:524:VAL:HG11	30:b2:236:THR:HB	1.88	0.48
28:Z2:531:LYS:CG	30:b2:182:PRO:O	2.61	0.48
28:Z2:541:PRO:HD2	28:Z2:544:MET:HE2	1.96	0.48
28:Z3:447:GLU:HG3	30:b3:248:SER:HB3	1.94	0.48
28:Z3:526:ARG:CB	30:b3:206:ASN:CB	2.66	0.48
28:Z3:555:LYS:HG3	30:b3:233:TRP:CE3	2.24	0.48
29:a3:91:ALA:HB2	29:a3:137[A]:VAL:HG13	1.96	0.48
29:a4:91:ALA:HB2	29:a4:137[A]:VAL:HG13	1.96	0.48
31:c4:212:LYS:HE2	31:c4:239:TYR:OH	2.14	0.48
31:c4:613:LEU:O	31:c4:617:LYS:N	2.47	0.48
1:A1:1203:TYR:H	2:A2:730:THR:C	2.21	0.48
2:A2:978:ASP:O	6:D1:476:VAL:HB	2.13	0.48
2:A2:978:ASP:N	6:D1:492:VAL:HG12	2.23	0.48
2:A2:1132:PRO:C	3:A5:145:THR:OG1	2.56	0.48
2:A2:1155:ASN:HD22	3:A5:177:ILE:CG1	2.18	0.48
2:A2:1157:TYR:CZ	3:A5:167:TRP:NE1	2.77	0.48
2:A2:1243:SER:C	2:A2:1245:ASP:H	2.22	0.48
1:A3:1055:ARG:NH2	1:A3:1058:GLU:OE1	2.47	0.48
1:A3:1120:ASP:CB	3:A6:595:GLU:C	2.78	0.48
1:A3:1259:CYS:HG	3:A6:624:ASP:CA	1.92	0.48
2:A4:674:ASP:CG	3:A6:97:ASP:OD1	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:727:ASN:OD1	3:A6:605:TYR:HB3	2.14	0.48
2:A4:757:LEU:O	3:A6:544:PHE:HD2	1.92	0.48
2:A4:803:GLU:HG3	3:A6:382:SER:O	2.12	0.48
2:A4:852:ASP:CG	3:A6:154:GLY:C	2.81	0.48
3:A5:996:ASN:ND2	11:I5:58:ALA:HB2	2.11	0.48
3:A5:1026:PRO:CD	11:I5:102:ILE:HD13	2.17	0.48
3:A6:444:ARG:CZ	6:D3:733:ALA:HA	2.43	0.48
6:D2:615:VAL:HG23	6:D2:616:ALA:N	2.29	0.48
6:D7:333:ALA:O	6:D7:337:VAL:HG23	2.13	0.48
6:D7:531:LEU:CA	11:I3:181:GLN:CB	2.64	0.48
8:F1:1001:ILE:O	8:F1:1001:ILE:HD12	2.14	0.48
8:F2:1001:ILE:HD12	8:F2:1001:ILE:O	2.14	0.48
11:I1:881:ILE:C	17:O1:249:ARG:HB3	1.90	0.48
11:I1:882:LYS:CA	17:O1:245:GLU:C	2.85	0.48
11:I1:895:ARG:NH2	17:O1:233:THR:HG21	2.25	0.48
11:I1:1607:GLN:HB2	11:I2:1739:GLU:HA	1.89	0.48
11:I2:877:ILE:C	17:O3:253:LEU:H	2.22	0.48
11:I2:928:LEU:HD11	20:R3:151:LYS:CE	2.32	0.48
11:I2:947:LEU:CD2	17:O3:256:TYR:CZ	2.91	0.48
11:I2:950:LEU:CD2	15:M3:606:LEU:CD2	2.92	0.48
11:I3:301:GLN:N	11:I3:301:GLN:OE1	2.42	0.48
11:I3:1274:HIS:CB	26:X1:534:ILE:CG2	2.92	0.48
11:I4:1277:LEU:CD2	26:X3:517:ASP:CG	2.86	0.48
11:I5:288:ILE:O	11:I5:292:GLY:N	2.46	0.48
21:S1:123:LEU:HD22	21:S1:125:ILE:HG13	1.96	0.48
21:S1:176:MET:CE	21:S1:232:LEU:HD13	2.44	0.48
21:S1:680:PRO:O	21:S1:681:SER:C	2.56	0.48
21:S3:1070:LYS:HZ3	21:S3:1121:GLU:HB3	1.79	0.48
22:T2:829:MET:O	22:T2:846:MET:HE2	2.14	0.48
24:V1:431:ASN:HB2	24:V1:434:LYS:HB3	1.96	0.48
24:V3:173:ILE:HD12	24:V3:173:ILE:H	1.78	0.48
24:V3:431:ASN:HB2	24:V3:434:LYS:HB3	1.96	0.48
25:W3:181:LEU:HD23	25:W3:201:GLU:HG2	1.95	0.48
26:X2:228:PHE:HE2	26:X2:267:ARG:HB3	1.77	0.48
26:X2:283:ASP:OD2	34:i:14:TRP:CH2	2.66	0.48
26:X2:301:SER:H	34:i:334:TYR:CA	2.27	0.48
26:X2:309:LEU:HD21	34:i:396:HIS:N	2.28	0.48
26:X2:309:LEU:CA	34:i:397:ARG:C	2.84	0.48
26:X3:223:TYR:HA	26:X3:226:GLN:HB2	1.96	0.48
28:Z2:24:VAL:HG23	28:Z2:93:ILE:HG23	1.95	0.48
28:Z3:24:VAL:HG11	28:Z3:143:ASN:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:163:PRO:HA	28:Z3:178:LEU:HA	1.95	0.48
28:Z4:24:VAL:HG23	28:Z4:93:ILE:HG23	1.96	0.48
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB2	1.88	0.48
29:a1:91:ALA:HB2	29:a1:137[A]:VAL:HG13	1.96	0.48
29:a3:363[A]:LEU:HD13	29:a3:364:VAL:N	2.29	0.48
1:A1:1225:PRO:O	2:A2:728:LYS:CA	2.62	0.48
1:A1:1393:THR:HA	2:A2:851:ASP:OD1	2.13	0.48
2:A2:867:GLU:CA	6:D1:598:ILE:CG2	2.91	0.48
2:A2:870:HIS:HB3	6:D1:548:LEU:CD2	2.43	0.48
2:A2:943:ASP:OD2	3:A5:589:ALA:CB	2.62	0.48
2:A2:973:GLU:OE1	6:D1:205:LEU:CD1	2.40	0.48
2:A2:1131:ILE:C	3:A5:141:GLY:H	2.21	0.48
1:A3:1220:PRO:O	2:A4:672:ARG:CD	2.62	0.48
1:A3:1260:ALA:HB3	3:A6:719:ARG:NE	2.22	0.48
1:A3:1280:GLN:OE1	3:A6:125:VAL:CG2	2.61	0.48
2:A4:198:VAL:O	4:B4:353:LEU:CB	2.58	0.48
2:A4:813:GLU:HG3	3:A6:190:ALA:HB1	1.95	0.48
2:A4:825:ARG:HH12	3:A6:564:ASN:ND2	2.11	0.48
2:A4:864:ARG:CA	6:D3:608:ILE:HG12	2.29	0.48
2:A4:978:ASP:H	6:D3:492:VAL:HG11	1.79	0.48
2:A4:1243:SER:C	2:A4:1245:ASP:H	2.22	0.48
3:A5:1395:LYS:HG3	28:Z2:873:LEU:N	2.19	0.48
3:A6:171:HIS:HD1	3:A6:173:ASN:H	1.60	0.48
3:A6:1151:THR:HA	5:C6:733:LEU:HD11	1.80	0.48
3:A6:1411:ARG:HG2	26:X4:687:SER:C	2.39	0.48
6:D2:445:LEU:HD12	6:D2:445:LEU:C	2.39	0.48
9:G1:260:THR:CG2	17:O2:259:ASP:CB	2.92	0.48
11:I1:837:MET:HG3	17:O1:238:ALA:C	2.37	0.48
11:I1:916:ALA:HB3	15:M1:586:ASP:OD1	2.06	0.48
11:I1:1017:VAL:CG2	17:O1:260:LEU:CD2	2.91	0.48
11:I1:1046:HIS:N	17:O1:283:ALA:HB3	2.29	0.48
11:I2:882:LYS:C	17:O3:245:GLU:O	2.53	0.48
11:I2:965:ALA:HB3	20:R3:165:SER:N	2.28	0.48
11:I2:1066:LEU:O	16:N3:429:GLU:N	2.46	0.48
11:I2:1112:SER:HB3	12:J2:241:THR:CB	2.43	0.48
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH1	2.32	0.48
11:I5:656:MET:O	11:I5:659:LYS:NZ	2.44	0.48
21:S1:667:ALA:HA	21:S2:1148:TYR:N	1.86	0.48
21:S1:933:GLU:C	21:S1:933:GLU:CD	2.82	0.48
21:S3:1075:CYS:HA	21:S3:1078:LEU:HD12	1.96	0.48
22:T1:819:ASN:O	31:c5:57:GLU:OE2	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:828:TRP:O	22:T2:850:ARG:HD2	2.13	0.48
23:U1:38:ILE:CG1	31:c2:473:THR:CG2	2.69	0.48
23:U1:379:ILE:HG13	23:U1:385:LEU:HD23	1.94	0.48
23:U4:227:ILE:C	23:U4:229:ASN:H	2.22	0.48
24:V4:173:ILE:HD12	24:V4:173:ILE:H	1.78	0.48
25:W4:38:VAL:O	25:W4:39:GLU:HG3	2.14	0.48
26:X1:223:TYR:HA	26:X1:226:GLN:HB2	1.96	0.48
26:X2:223:TYR:HA	26:X2:226:GLN:HB2	1.96	0.48
26:X2:310:VAL:CG1	34:i:401:CYS:HB3	2.42	0.48
26:X2:390:TRP:C	26:X2:393:PRO:HD2	2.39	0.48
26:X3:262:ILE:HG12	26:X3:289:ILE:HG23	1.95	0.48
26:X4:390:TRP:C	26:X4:393:PRO:HD2	2.39	0.48
27:Y2:77:TYR:HA	27:Y2:110:SER:HB3	1.95	0.48
28:Z1:438:GLU:OE1	30:b1:333:HIS:NE2	2.46	0.48
28:Z2:160:VAL:HG23	28:Z2:161:ARG:H	1.79	0.48
28:Z2:527:SER:HA	30:b2:204:GLU:HB2	1.95	0.48
28:Z3:160:VAL:HG23	28:Z3:161:ARG:H	1.79	0.48
28:Z3:531:LYS:CD	30:b3:183:LEU:N	2.63	0.48
29:a4:363[A]:LEU:HD13	29:a4:364:VAL:N	2.29	0.48
31:c1:297:LEU:HG	31:c1:389:LEU:HD21	1.95	0.48
31:c2:297:LEU:HG	31:c2:389:LEU:HD21	1.95	0.48
31:c2:613:LEU:O	31:c2:617:LYS:N	2.47	0.48
33:h:161:LYS:NZ	33:h:191:GLU:HB3	2.29	0.48
2:A2:782:VAL:N	6:D1:677:GLN:CA	2.76	0.48
2:A2:869:ALA:O	6:D1:570:VAL:HA	1.91	0.48
2:A2:978:ASP:N	6:D1:496:LEU:HD12	2.26	0.48
2:A2:1150:LEU:CG	5:C2:731:LYS:HA	2.41	0.48
1:A3:780:GLU:HG3	1:A3:822:ILE:CG2	2.43	0.48
2:A4:537:ALA:H	3:A6:368:SER:HG	1.56	0.48
2:A4:717:VAL:HA	3:A6:512:GLU:CG	2.42	0.48
2:A4:733:GLY:CA	3:A6:94:SER:N	2.76	0.48
2:A4:858:ALA:HB2	3:A6:174:PRO:O	2.11	0.48
2:A4:880:ALA:N	6:D3:564:ASN:HB2	2.27	0.48
2:A4:888:GLN:O	3:A6:171:HIS:CD2	2.66	0.48
2:A4:904:GLN:CG	6:D3:603:SER:CB	2.59	0.48
2:A4:1160:GLN:HB3	5:C4:743:LEU:HD22	1.95	0.48
3:A5:232:LEU:HD23	5:C2:736:ASN:C	2.39	0.48
3:A6:1155:ASN:HD21	5:C6:735:ILE:HG23	1.79	0.48
8:F1:1568:GLN:HA	8:F1:1571:VAL:HG22	1.96	0.48
8:F2:1713:LEU:HD12	8:F2:1714:LEU:N	2.29	0.48
9:G1:257:THR:O	16:N2:404:GLU:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1066:LEU:N	16:N1:430:ARG:NE	2.55	0.48
11:I2:52:ASP:OD1	11:I2:53:THR:N	2.46	0.48
11:I2:797:LEU:CD1	17:O3:245:GLU:N	2.75	0.48
11:I2:899:LEU:CD1	17:O3:232:LYS:C	2.82	0.48
11:I2:922:ASP:H	15:M3:592:LEU:HG	1.79	0.48
11:I2:1046:HIS:HB2	17:O3:280:GLU:HB3	1.96	0.48
11:I2:1048:GLU:C	15:M3:622:VAL:HG11	2.38	0.48
11:I2:1055:GLU:O	17:O3:278:GLU:HB2	2.13	0.48
11:I4:1282:PHE:HB3	29:a3:24[B]:GLY:HA3	1.95	0.48
15:M4:495:TRP:CG	16:N4:280:LEU:HD13	2.48	0.48
17:O4:109:PRO:CD	18:P4:318:PRO:HB3	2.44	0.48
21:S1:668:ILE:O	21:S2:1146:ALA:HB1	2.05	0.48
22:T2:781:THR:HG23	22:T2:784:GLU:H	1.78	0.48
23:U1:149:THR:OG1	31:c1:521:LYS:NZ	2.46	0.48
23:U1:254:ALA:O	24:V1:315:LYS:NZ	2.40	0.48
23:U2:24:ILE:HG12	31:c4:481:ILE:O	2.14	0.48
23:U2:115:GLN:HG3	31:c4:92:THR:HG1	1.76	0.48
23:U3:227:ILE:C	23:U3:229:ASN:H	2.22	0.48
23:U3:278:GLN:HG3	25:W4:189:SER:HG	1.76	0.48
26:X2:197:VAL:CG1	34:i:366:PHE:HD2	2.05	0.48
26:X2:361:LEU:CB	34:i:423:LYS:CE	2.91	0.48
26:X2:361:LEU:CA	34:i:423:LYS:HD2	2.43	0.48
26:X4:223:TYR:HA	26:X4:226:GLN:HB2	1.96	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:H	1.79	0.48
28:Z1:163:PRO:HA	28:Z1:178:LEU:HA	1.95	0.48
28:Z2:53:GLY:HA2	28:Z2:73:SER:HA	1.94	0.48
28:Z3:233:TYR:CG	28:Z3:311:LEU:HD22	2.49	0.48
28:Z4:736:ASN:C	28:Z4:738:ARG:H	2.21	0.48
29:a2:363[A]:LEU:HD13	29:a2:364:VAL:N	2.29	0.48
30:b1:40:ILE:HG23	30:b1:73:LEU:HD11	1.96	0.48
30:b1:280:TRP:CD1	30:b1:305:PRO:HA	2.48	0.48
31:c1:212:LYS:HE2	31:c1:239:TYR:OH	2.14	0.48
31:c3:139:LEU:HD11	31:c3:149:LYS:HD3	1.96	0.48
1:A1:878:LEU:CD1	6:D3:276:GLY:HA2	2.40	0.47
1:A1:1332:ARG:CZ	6:D1:636:ASP:OD1	2.61	0.47
2:A2:780:GLU:N	6:D1:678:GLY:CA	2.71	0.47
1:A3:1332:ARG:HD2	6:D3:636:ASP:CG	2.36	0.47
1:A3:1396:GLY:CA	2:A4:888:GLN:HB3	2.37	0.47
2:A4:86:ASN:CA	3:A6:393:HIS:H	2.26	0.47
2:A4:713:ILE:N	3:A6:462:LEU:CD1	2.40	0.47
2:A4:761:GLN:NE2	3:A6:546:ASN:C	2.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:778:PHE:O	3:A6:487:ASP:OD1	2.20	0.47
2:A4:954:ILE:H	4:B6:345:LYS:C	2.22	0.47
2:A4:977:VAL:C	6:D3:496:LEU:HD11	2.09	0.47
2:A4:978:ASP:CA	6:D3:475:ALA:HB3	2.43	0.47
3:A5:164:LEU:HG	5:C2:741:THR:O	2.14	0.47
3:A5:862:LEU:HD11	3:A5:904:GLN:HB3	1.95	0.47
3:A6:485:ASN:C	6:D3:671:ALA:O	2.56	0.47
6:D4:445:LEU:C	6:D4:445:LEU:HD12	2.39	0.47
6:D5:615:VAL:HG23	6:D5:616:ALA:N	2.29	0.47
6:D6:800:PRO:HB3	22:T3:765:LYS:CA	2.41	0.47
6:D7:176:SER:HB3	11:I3:95:LYS:HE2	1.95	0.47
8:F1:1265:GLN:C	17:O2:265:ASN:ND2	2.44	0.47
11:I1:800:PHE:HZ	17:O1:238:ALA:HB2	1.72	0.47
11:I1:850:ILE:HG12	15:M1:594:LYS:CG	2.44	0.47
11:I1:924:ILE:HD13	15:M1:595:MET:SD	2.47	0.47
11:I1:1043:LEU:HA	16:N1:430:ARG:CG	2.44	0.47
11:I1:1065:SER:OG	16:N1:430:ARG:CD	2.61	0.47
11:I2:797:LEU:CD1	17:O3:248:SER:OG	2.55	0.47
11:I2:962:ILE:HG12	15:M3:600:ASN:CG	2.38	0.47
11:I2:1034:ASP:HB3	16:N3:444:SER:OG	2.14	0.47
11:I2:1043:LEU:CD1	16:N3:434:LEU:N	2.77	0.47
11:I2:1054:ILE:H	17:O3:282:LYS:H	0.48	0.47
11:I3:1267:LEU:HA	26:X1:529:TRP:CA	2.42	0.47
11:I5:130:LYS:NZ	11:I5:237:GLU:OE1	2.45	0.47
18:P3:311:MET:HE3	18:P3:313:GLN:OE1	2.14	0.47
21:S1:671:ALA:HB3	21:S2:1143:VAL:HA	1.96	0.47
22:T1:724:TYR:OH	31:c5:28:LYS:N	2.47	0.47
22:T3:781:THR:HG23	22:T3:784:GLU:H	1.78	0.47
23:U1:141:THR:HA	31:c1:633:PHE:CZ	2.48	0.47
24:V2:270:THR:OG1	24:V2:391:CYS:SG	2.72	0.47
24:V4:152:ALA:HB3	25:W4:272:SER:OG	2.13	0.47
24:V4:173:ILE:HD11	25:W4:43:HIS:CD2	2.49	0.47
25:W1:12:ILE:HA	25:W1:28:SER:HA	1.96	0.47
25:W1:38:VAL:O	25:W1:39:GLU:HG3	2.14	0.47
25:W3:229:ARG:HB2	25:W3:229:ARG:HH11	1.78	0.47
26:X2:369:GLU:HB3	34:i:428:LEU:HD11	1.96	0.47
26:X3:390:TRP:C	26:X3:393:PRO:HD2	2.39	0.47
26:X4:417:ALA:HB1	26:X4:465:MET:HE1	1.96	0.47
28:Z1:233:TYR:CG	28:Z1:311:LEU:HD22	2.49	0.47
28:Z3:541:PRO:HD2	28:Z3:544:MET:HE2	1.96	0.47
28:Z3:561:GLN:HG2	30:b3:235:LEU:CB	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:160:VAL:HG23	28:Z4:161:ARG:N	2.29	0.47
30:b1:280:TRP:CE2	30:b1:305:PRO:HB3	2.49	0.47
30:b2:280:TRP:CE2	30:b2:305:PRO:HB3	2.49	0.47
31:c2:575:LEU:HB3	31:c2:609:VAL:CG2	2.44	0.47
31:c5:229:ARG:CZ	31:c5:278:LEU:HD23	2.44	0.47
2:A2:965:LYS:CA	6:D1:199:GLY:CA	2.77	0.47
1:A3:1091:VAL:CB	6:D3:803:THR:O	2.51	0.47
1:A3:1196:GLU:HG3	3:A6:611:ILE:HB	1.96	0.47
1:A3:1220:PRO:CB	2:A4:646:ILE:HG23	2.45	0.47
1:A3:1251:VAL:CA	3:A6:634:ASP:CG	2.68	0.47
2:A4:762:LYS:CE	3:A6:533:ALA:O	2.62	0.47
2:A4:906:ILE:CG2	2:A4:965:LYS:HG2	2.44	0.47
2:A4:968:SER:CB	6:D3:201:LEU:CA	2.93	0.47
3:A5:1369:ILE:CG2	28:Z2:830:LEU:C	2.25	0.47
3:A5:1392:ARG:HG2	28:Z2:866:GLU:C	2.15	0.47
3:A6:484:PRO:CB	6:D3:672:GLU:CG	2.87	0.47
3:A6:485:ASN:CA	6:D3:676:ALA:H	2.24	0.47
3:A6:518:GLU:HB3	6:D3:686:ASP:C	2.38	0.47
6:D2:333:ALA:O	6:D2:337:VAL:HG23	2.13	0.47
6:D6:615:VAL:HG23	6:D6:616:ALA:N	2.29	0.47
6:D7:639:LEU:HD22	6:D7:689:PHE:CD2	2.50	0.47
8:F1:1775:VAL:O	8:F1:1776:THR:HG22	2.15	0.47
11:I1:52:ASP:OD1	11:I1:53:THR:N	2.46	0.47
11:I1:1103:LEU:O	16:N1:440:GLU:CD	2.57	0.47
11:I1:1671:LEU:CD1	11:I2:1675:VAL:HG23	2.44	0.47
11:I2:915:ALA:HB3	15:M3:582:THR:O	2.14	0.47
11:I2:1016:ARG:HB3	16:N3:408:MET:O	2.14	0.47
11:I2:1037:THR:HG21	20:R3:170:LEU:H	1.79	0.47
11:I2:1105:TRP:CE3	16:N3:432:TYR:OH	2.64	0.47
11:I2:1106:LYS:C	16:N3:439:ARG:HG3	2.39	0.47
11:I3:777:SER:HB3	29:a2:40[B]:GLU:HA	1.96	0.47
17:O2:110:LEU:HD13	18:P2:321:ILE:HG21	1.36	0.47
17:O4:85:LYS:HD2	17:O4:94:ALA:HB2	1.96	0.47
21:S2:176:MET:CE	21:S2:232:LEU:HD13	2.43	0.47
21:S4:123:LEU:HD22	21:S4:125:ILE:HG13	1.96	0.47
22:T3:828:TRP:O	22:T3:850:ARG:HD2	2.13	0.47
23:U1:24:ILE:CG2	31:c2:471:LEU:HD22	2.07	0.47
23:U2:86:ASN:C	23:U2:88:ASP:H	2.23	0.47
23:U2:437:ASN:CA	31:c4:428:ARG:HE	2.25	0.47
24:V2:492:LEU:HD12	24:V2:508:ILE:HD13	1.96	0.47
24:V4:270:THR:OG1	24:V4:391:CYS:SG	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:392:GLN:HB3	26:X3:393:PRO:HD3	1.96	0.47
27:Y3:41:ASP:O	29:a3:231[B]:HIS:NE2	2.45	0.47
27:Y4:159:ILE:O	27:Y4:161:PRO:HD3	2.15	0.47
27:Y4:311:SER:O	27:Y4:319:LEU:HD12	2.13	0.47
28:Z2:394:ASP:OD2	30:b2:241:PRO:O	2.30	0.47
28:Z3:4:LEU:HB2	28:Z3:381:SER:HB2	1.96	0.47
28:Z4:401:THR:CB	30:b4:253:SER:N	2.76	0.47
28:Z4:541:PRO:CG	30:b4:180:GLY:HA3	2.44	0.47
28:Z4:560:ASN:HD22	30:b4:211:ILE:CG2	2.19	0.47
30:b2:40:ILE:HG23	30:b2:73:LEU:HD11	1.96	0.47
31:c1:139:LEU:HD11	31:c1:149:LYS:HD3	1.96	0.47
31:c3:613:LEU:O	31:c3:617:LYS:N	2.47	0.47
2:A2:906:ILE:CG2	2:A2:965:LYS:HG2	2.44	0.47
1:A3:1230:TYR:O	3:A6:575:LEU:O	2.32	0.47
1:A3:1271:ILE:N	3:A6:553:ASP:C	2.66	0.47
2:A4:90:GLN:HG3	3:A6:428:GLN:O	2.10	0.47
2:A4:727:ASN:CG	3:A6:605:TYR:HD1	2.20	0.47
2:A4:757:LEU:HG	3:A6:544:PHE:H	1.79	0.47
2:A4:781:ARG:NH1	3:A6:522:GLY:HA2	2.29	0.47
2:A4:781:ARG:HE	6:D3:673:ARG:NH1	2.09	0.47
2:A4:871:ASN:N	6:D3:566:PHE:O	2.47	0.47
2:A4:910:TYR:CD1	6:D3:564:ASN:ND2	2.82	0.47
3:A5:1392:ARG:HH11	28:Z2:866:GLU:CA	2.27	0.47
3:A6:518:GLU:HB3	6:D3:687:SER:N	2.29	0.47
5:C1:732:LYS:CE	11:I1:1228:GLU:CB	2.89	0.47
6:D2:639:LEU:HD22	6:D2:689:PHE:CD2	2.50	0.47
6:D6:192:TYR:OH	6:D6:498:GLU:OE1	2.33	0.47
11:I1:919:ALA:HB1	16:N1:393:ILE:HG13	1.95	0.47
11:I1:939:ASN:HB3	17:O1:265:ASN:ND2	2.28	0.47
11:I1:1036:PRO:HA	16:N1:441:PHE:CE2	2.49	0.47
11:I1:1049:LEU:O	17:O1:291:ASP:CB	2.62	0.47
11:I1:1182:GLN:CG	12:J1:245:GLU:OE2	2.51	0.47
11:I2:976:ARG:HB3	20:R3:149:ARG:CA	2.40	0.47
11:I2:1040:HIS:HB3	16:N3:434:LEU:HD11	1.89	0.47
19:Q4:208:GLY:HA3	19:Q4:210:TRP:CZ3	2.48	0.47
21:S1:964:PHE:HE1	21:S1:1002:LEU:HD22	1.78	0.47
21:S3:123:LEU:HD22	21:S3:125:ILE:HG13	1.96	0.47
22:T3:829:MET:O	22:T3:846:MET:HE2	2.14	0.47
22:T4:781:THR:HG23	22:T4:784:GLU:H	1.78	0.47
23:U1:35:PRO:HB3	31:c2:556:GLN:CG	2.43	0.47
23:U1:227:ILE:C	23:U1:229:ASN:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:402:GLY:HA2	31:c2:548:VAL:CA	2.29	0.47
23:U1:402:GLY:HA3	31:c2:550:LYS:HB3	1.86	0.47
23:U2:75:TRP:CZ3	31:c4:476:PRO:CG	2.96	0.47
23:U2:442:LEU:HD13	31:c4:462:HIS:CD2	2.50	0.47
23:U3:320:HIS:HE1	24:V4:641:MET:HA	1.79	0.47
24:V1:173:ILE:HD12	24:V1:173:ILE:H	1.78	0.47
24:V1:270:THR:OG1	24:V1:391:CYS:SG	2.72	0.47
24:V1:287:ASN:C	31:c1:11:TYR:OH	2.56	0.47
25:W2:118:VAL:O	25:W2:125:VAL:HA	2.14	0.47
25:W3:118:VAL:O	25:W3:125:VAL:HA	2.14	0.47
26:X1:159:ILE:HG12	26:X1:175:LEU:CB	2.39	0.47
26:X2:279:ALA:HA	34:i:15:GLN:HB2	1.96	0.47
26:X2:298:ASP:CB	34:i:370:GLU:H	2.23	0.47
26:X2:306:TRP:O	26:X2:310:VAL:HG23	2.12	0.47
26:X2:315:GLN:H	34:i:399:PRO:CB	2.27	0.47
26:X4:392:GLN:HB3	26:X4:393:PRO:HD3	1.96	0.47
27:Y2:196:ARG:HH11	27:Y2:202:LEU:HD21	1.78	0.47
28:Z1:407:GLY:HA2	30:b1:252:ALA:H	1.79	0.47
28:Z1:560:ASN:HD22	30:b1:211:ILE:CG2	2.19	0.47
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB2	1.88	0.47
28:Z3:401:THR:CG2	30:b3:253:SER:C	2.78	0.47
28:Z3:526:ARG:O	30:b3:206:ASN:CG	2.37	0.47
28:Z3:541:PRO:HD3	30:b3:165:THR:HG21	1.95	0.47
28:Z4:233:TYR:CG	28:Z4:311:LEU:HD22	2.49	0.47
28:Z4:556:ASN:OD1	30:b4:212:PHE:CD2	2.68	0.47
30:b2:39:GLY:HA2	30:b2:66:THR:OG1	2.15	0.47
30:b2:143:ALA:HB2	30:b2:192:PHE:HD2	1.80	0.47
30:b4:40:ILE:HG23	30:b4:73:LEU:HD11	1.96	0.47
31:c3:212:LYS:HE2	31:c3:239:TYR:OH	2.14	0.47
33:h:195:ALA:HB3	33:h:214:VAL:HG22	1.96	0.47
1:A1:1223:GLU:CG	2:A2:724:LEU:HB3	2.41	0.47
1:A1:1224:PRO:HD2	2:A2:731:ILE:CG2	2.43	0.47
1:A1:1392:ARG:HD3	2:A2:891:GLY:HA3	1.97	0.47
2:A2:823:VAL:HA	2:A2:856:PHE:CZ	2.28	0.47
2:A2:870:HIS:CE1	6:D1:551:PHE:HB3	2.34	0.47
2:A2:1131:ILE:HG23	3:A5:160:ILE:HG12	1.95	0.47
1:A3:1021:LEU:CD1	6:D3:819:ASN:CB	2.90	0.47
1:A3:1186:TRP:O	3:A6:641:ALA:HB1	2.12	0.47
1:A3:1187:ASN:OD1	3:A6:619:CYS:N	2.47	0.47
1:A3:1192:GLN:HA	3:A6:645:PHE:HE2	1.80	0.47
1:A3:1221:ILE:CD1	2:A4:642:ARG:CA	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1281:LEU:CD1	3:A6:577:ASP:CA	2.89	0.47
2:A4:753:GLU:HB3	3:A6:93:ASP:O	2.14	0.47
2:A4:780:GLU:HB2	3:A6:524:ARG:CA	2.37	0.47
2:A4:781:ARG:CD	6:D3:633:LYS:HE2	2.43	0.47
2:A4:806:PHE:CG	3:A6:470:ARG:CB	2.96	0.47
2:A4:975:GLU:HB2	6:D3:501:LEU:CD1	2.08	0.47
2:A4:975:GLU:O	6:D3:501:LEU:C	2.57	0.47
3:A5:164:LEU:N	5:C2:743:LEU:HB3	2.18	0.47
3:A5:994:VAL:O	11:I5:61:LYS:CG	2.62	0.47
3:A5:1369:ILE:CD1	28:Z2:831:LEU:C	2.86	0.47
3:A5:1381:ALA:CA	28:Z2:810:ASP:HA	2.44	0.47
3:A5:1416:ARG:O	28:Z2:966:CYS:CB	2.63	0.47
3:A6:486:GLN:HB2	6:D3:671:ALA:O	2.14	0.47
6:D3:445:LEU:C	6:D3:445:LEU:HD12	2.39	0.47
6:D5:639:LEU:HD22	6:D5:689:PHE:CD2	2.50	0.47
11:I1:947:LEU:CG	17:O1:256:TYR:CZ	2.97	0.47
11:I1:991:THR:N	15:M1:608:LYS:CG	2.78	0.47
11:I1:1187:SER:N	17:O2:221:ASP:OD2	2.47	0.47
11:I1:1668:HIS:CD2	11:I2:1665:LEU:O	2.51	0.47
11:I2:948:ALA:HB2	17:O3:256:TYR:HB2	1.76	0.47
11:I2:957:SER:CB	20:R3:168:LEU:N	2.68	0.47
11:I2:980:ILE:CG2	15:M3:622:VAL:H	2.28	0.47
11:I2:1000:ILE:HA	16:N3:413:VAL:HG11	1.96	0.47
11:I2:1113:LEU:CD2	17:O3:282:LYS:HZ1	2.26	0.47
11:I3:656:MET:O	11:I3:659:LYS:NZ	2.45	0.47
11:I3:1366:ARG:HD2	12:J3:256:GLN:NE2	2.30	0.47
11:I4:1015:TYR:OH	11:I4:1089:TYR:O	2.32	0.47
15:M1:605:THR:O	17:O1:261:LYS:NZ	2.43	0.47
15:M2:495:TRP:CG	16:N2:280:LEU:HD13	2.48	0.47
21:S1:690:PHE:C	21:S1:692:GLU:N	2.71	0.47
22:T1:829:MET:O	22:T1:846:MET:HE2	2.14	0.47
23:U1:410:SER:HB3	31:c2:541:ARG:NH1	2.19	0.47
23:U2:34:ASP:CG	31:c4:561:THR:HG21	2.33	0.47
23:U2:391:HIS:ND1	31:c4:477:GLU:HB3	2.30	0.47
24:V1:339:LEU:CB	31:c1:627:ASP:HB2	2.41	0.47
24:V1:397:GLU:OE1	24:V1:397:GLU:N	2.40	0.47
24:V3:173:ILE:HD11	25:W3:43:HIS:CD2	2.50	0.47
24:V3:270:THR:OG1	24:V3:391:CYS:SG	2.72	0.47
24:V4:431:ASN:HB2	24:V4:434:LYS:HB3	1.96	0.47
25:W1:12:ILE:HG23	25:W1:27:CYS:O	2.15	0.47
25:W3:38:VAL:O	25:W3:39:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W4:12:ILE:HA	25:W4:28:SER:HA	1.96	0.47
26:X2:195:GLN:HA	34:i:435:LYS:O	2.14	0.47
27:Y3:236:LYS:HG3	27:Y3:306:GLU:OE1	2.15	0.47
27:Y4:42:THR:HG22	29:a4:248:ARG:HD2	1.97	0.47
27:Y4:236:LYS:HG3	27:Y4:306:GLU:OE1	2.15	0.47
28:Z1:410:ASN:CG	30:b1:252:ALA:HB2	2.23	0.47
28:Z2:160:VAL:HG23	28:Z2:161:ARG:N	2.28	0.47
28:Z2:233:TYR:CG	28:Z2:311:LEU:HD22	2.49	0.47
28:Z3:524:VAL:HG13	30:b3:236:THR:C	2.30	0.47
29:a1:363[A]:LEU:HD13	29:a1:364:VAL:N	2.29	0.47
30:b3:195:SER:HB2	30:b3:264:ASP:HA	1.96	0.47
31:c3:228:TRP:HZ3	31:c3:272:LEU:CD2	2.27	0.47
31:c4:575:LEU:HB3	31:c4:609:VAL:CG2	2.43	0.47
31:c5:228:TRP:HZ3	31:c5:272:LEU:CD2	2.27	0.47
1:A1:1402:ASP:N	2:A2:884:ARG:HH11	2.09	0.47
2:A2:1129:PRO:O	3:A5:141:GLY:C	2.57	0.47
2:A2:1139:ILE:HB	3:A5:135:PHE:CD1	2.50	0.47
1:A3:1131:ILE:C	3:A6:653:ARG:NH2	2.72	0.47
1:A3:1163:TYR:CA	3:A6:647:GLU:CB	2.92	0.47
1:A3:1233:GLN:CD	3:A6:575:LEU:HD13	2.39	0.47
1:A3:1236:GLN:HG2	3:A6:573:ARG:NH1	2.30	0.47
1:A3:1306:PRO:CA	3:A6:715:GLU:CG	2.92	0.47
1:A3:1393:THR:OG1	3:A6:228:GLY:CA	2.63	0.47
2:A4:546:ASN:HD22	3:A6:365:MET:HE3	1.78	0.47
2:A4:555:VAL:O	3:A6:457:LYS:HG2	2.15	0.47
2:A4:768:SER:CA	3:A6:477:PHE:CA	2.92	0.47
2:A4:775:LEU:HD11	3:A6:490:PHE:H	1.31	0.47
2:A4:776:MET:SD	3:A6:524:ARG:O	2.73	0.47
2:A4:854:VAL:HB	3:A6:171:HIS:HB3	1.06	0.47
2:A4:879:LEU:HG	6:D3:567:LEU:CD1	2.44	0.47
2:A4:892:SER:CA	3:A6:232:LEU:CB	2.89	0.47
2:A4:898:LEU:CD2	4:B6:343:LYS:C	2.85	0.47
3:A5:232:LEU:CD2	5:C2:737:LYS:C	2.87	0.47
3:A5:1026:PRO:CA	11:I5:68:ILE:H	2.19	0.47
3:A5:1046:LEU:CD1	11:I5:70:GLU:N	2.78	0.47
6:D1:639:LEU:HD22	6:D1:689:PHE:CD2	2.50	0.47
6:D5:445:LEU:C	6:D5:445:LEU:HD12	2.39	0.47
8:F2:1568:GLN:HA	8:F2:1571:VAL:HG22	1.96	0.47
11:I2:1366:ARG:HD2	12:J2:256:GLN:NE2	2.30	0.47
21:S1:684:THR:CB	21:S2:1144:LEU:O	2.62	0.47
21:S3:933:GLU:C	21:S3:933:GLU:CD	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:781:THR:HG23	22:T1:784:GLU:H	1.78	0.47
23:U1:202:LEU:N	31:c1:632:HIS:CB	2.73	0.47
23:U2:24:ILE:CD1	31:c4:457:LEU:HD12	2.43	0.47
23:U2:389:VAL:HG13	31:c4:548:VAL:CG1	2.19	0.47
24:V1:151:PHE:HB2	25:W1:259:ARG:NH1	2.30	0.47
25:W1:118:VAL:O	25:W1:125:VAL:HA	2.14	0.47
25:W2:38:VAL:O	25:W2:39:GLU:HG3	2.14	0.47
27:Y3:311:SER:O	27:Y3:319:LEU:HD12	2.13	0.47
28:Z1:24:VAL:HG23	28:Z1:93:ILE:HG23	1.96	0.47
28:Z2:541:PRO:CG	30:b2:180:GLY:HA3	2.44	0.47
28:Z3:407:GLY:HA2	30:b3:252:ALA:H	1.79	0.47
30:b3:40:ILE:HG23	30:b3:73:LEU:HD11	1.96	0.47
30:b3:143:ALA:HB2	30:b3:192:PHE:HD2	1.80	0.47
31:c3:575:LEU:HB3	31:c3:609:VAL:CG2	2.44	0.47
31:c5:382:GLN:HG2	31:c5:406:ILE:HD12	1.97	0.47
1:A1:862:LEU:HD11	1:A1:904:GLN:CB	2.43	0.47
1:A1:874:VAL:C	6:D3:276:GLY:O	2.58	0.47
1:A1:1223:GLU:OE1	2:A2:761:GLN:OE1	2.31	0.47
2:A2:1138:GLU:CD	3:A5:562:LEU:HD11	2.38	0.47
1:A3:1169:LEU:HB3	3:A6:593:ALA:CB	2.43	0.47
1:A3:1204:TRP:HB2	3:A6:500:LYS:HG3	1.97	0.47
2:A4:706:PRO:O	3:A6:462:LEU:HD23	2.14	0.47
2:A4:719:ARG:HG2	3:A6:514:GLY:N	2.25	0.47
2:A4:754:HIS:HB2	3:A6:93:ASP:CG	2.35	0.47
2:A4:769:GLU:HG3	3:A6:477:PHE:CZ	2.49	0.47
2:A4:856:PHE:C	3:A6:129:ASN:O	2.58	0.47
2:A4:873:PRO:HG2	6:D3:568:ARG:C	2.39	0.47
3:A5:159:SER:C	5:C2:744:PHE:HA	2.35	0.47
3:A5:996:ASN:HB3	11:I5:55:ASP:O	2.15	0.47
3:A5:996:ASN:O	11:I5:58:ALA:C	2.58	0.47
3:A6:1160:GLN:HB2	5:C6:743:LEU:HD22	1.95	0.47
6:D2:610:ASN:O	6:D2:614:SER:N	2.43	0.47
8:F1:1713:LEU:HD12	8:F1:1714:LEU:N	2.29	0.47
11:I1:933:ASP:N	15:M1:601:ASP:O	2.48	0.47
11:I1:963:LEU:CA	20:R1:165:SER:OG	2.61	0.47
11:I1:980:ILE:HD11	20:R1:147:LEU:HA	1.95	0.47
11:I1:1031:ALA:HB3	20:R1:168:LEU:HD22	1.96	0.47
11:I1:1050:SER:C	17:O1:287:LEU:O	2.57	0.47
11:I1:1425:TYR:OH	11:I1:1482:ASP:OD2	2.23	0.47
11:I2:891:LEU:CA	17:O3:239:GLN:CB	2.86	0.47
11:I2:966:TRP:HE3	20:R3:167:GLN:HB3	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:813:ILE:O	26:X3:496:THR:CB	2.62	0.47
11:I4:1051:LYS:C	11:I4:1052:LEU:HD12	2.40	0.47
18:P2:311:MET:HE3	18:P2:313:GLN:OE1	2.14	0.47
21:S1:882:GLN:C	21:S1:884:ARG:N	2.69	0.47
22:T4:828:TRP:O	22:T4:850:ARG:HD2	2.13	0.47
23:U1:405:GLU:CA	31:c2:545:PRO:O	2.62	0.47
23:U1:431:ILE:HD12	23:U1:431:ILE:N	2.30	0.47
23:U2:26:GLN:HB3	31:c4:491:VAL:CG2	2.44	0.47
23:U2:390:THR:O	31:c4:538:LEU:HD22	2.15	0.47
23:U2:398:ILE:CA	31:c4:530:SER:O	2.62	0.47
24:V1:492:LEU:HD12	24:V1:508:ILE:HD13	1.97	0.47
24:V3:492:LEU:HD12	24:V3:508:ILE:HD13	1.96	0.47
25:W2:227:GLN:OE1	25:W2:256:VAL:HG11	2.15	0.47
25:W3:12:ILE:HG23	25:W3:27:CYS:O	2.15	0.47
26:X1:152:LEU:HD22	26:X1:179:LEU:HD12	1.97	0.47
26:X1:390:TRP:C	26:X1:393:PRO:HD2	2.39	0.47
26:X2:191:ILE:CD1	34:i:443:THR:HB	2.43	0.47
26:X2:287:ASP:CB	34:i:492:TRP:C	2.88	0.47
26:X2:333:GLU:CB	34:i:475:ILE:O	2.62	0.47
27:Y1:41:ASP:HB2	29:a1:231[B]:HIS:HE1	1.64	0.47
27:Y1:196:ARG:HH11	27:Y1:202:LEU:HD21	1.78	0.47
27:Y2:159:ILE:O	27:Y2:161:PRO:HD3	2.15	0.47
28:Z1:532:PHE:N	30:b1:184:SER:CA	2.77	0.47
28:Z2:532:PHE:N	30:b2:184:SER:CA	2.77	0.47
28:Z2:535:ILE:CD1	30:b2:182:PRO:CG	2.88	0.47
28:Z3:556:ASN:OD1	30:b3:212:PHE:CD2	2.67	0.47
28:Z4:438:GLU:OE1	30:b4:333:HIS:NE2	2.46	0.47
28:Z4:559:GLU:O	30:b4:211:ILE:HB	2.15	0.47
29:a2:91:ALA:HB2	29:a2:137[A]:VAL:HG13	1.96	0.47
30:b3:39:GLY:HA2	30:b3:66:THR:OG1	2.14	0.47
30:b4:130:LYS:O	30:b4:134:HIS:NE2	2.41	0.47
30:b4:143:ALA:HB2	30:b4:192:PHE:HD2	1.80	0.47
30:b4:279:ARG:HB3	30:b4:307:VAL:HG12	1.96	0.47
31:c3:382:GLN:CG	31:c3:406:ILE:HD12	2.45	0.47
31:c4:229:ARG:CZ	31:c4:278:LEU:HD23	2.44	0.47
33:h:233:PRO:HA	33:h:236:ILE:CD1	2.42	0.47
1:A1:830:GLY:O	6:D3:298:ASN:ND2	2.48	0.47
1:A1:875:LEU:HD12	6:D3:276:GLY:CA	2.42	0.47
1:A1:1204:TRP:HE3	2:A2:734:LEU:CD1	2.08	0.47
2:A2:227:SER:CB	6:D1:712:ASP:H	2.21	0.47
2:A2:926:ASP:OD1	2:A2:929:ASN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1141:GLU:O	3:A5:129:ASN:CG	2.57	0.47
2:A2:1142:PHE:HE2	3:A5:567:VAL:CB	1.91	0.47
2:A2:1277:TRP:N	2:A2:1278:PRO:CD	2.78	0.47
1:A3:1021:LEU:HD11	6:D3:819:ASN:HB2	1.92	0.47
1:A3:1036:ALA:HB1	1:A3:1043:ALA:HB2	1.95	0.47
1:A3:1099:GLN:CD	11:I2:1416:GLY:N	2.71	0.47
1:A3:1169:LEU:HB2	3:A6:594:LEU:H	0.97	0.47
1:A3:1228:TYR:CD1	3:A6:551:GLN:O	2.68	0.47
1:A3:1241:ARG:HG3	3:A6:597:GLU:CD	2.40	0.47
1:A3:1245:ASP:CB	3:A6:587:VAL:HG12	2.25	0.47
1:A3:1256:PRO:O	3:A6:719:ARG:NH2	2.48	0.47
1:A3:1306:PRO:HB3	3:A6:715:GLU:CA	2.44	0.47
1:A3:1306:PRO:HD3	3:A6:719:ARG:CG	2.44	0.47
2:A4:79:ALA:C	3:A6:385:PRO:CD	2.70	0.47
2:A4:93:ASP:HB3	3:A6:361:ASP:OD1	2.12	0.47
2:A4:540:GLN:NE2	3:A6:357:SER:O	2.48	0.47
2:A4:648:TYR:O	3:A6:505:ALA:CA	2.62	0.47
2:A4:691:LYS:HG3	3:A6:316:ARG:NE	2.14	0.47
2:A4:702:SER:HB3	3:A6:379:VAL:HG13	1.89	0.47
2:A4:720:LEU:HA	3:A6:495:ASP:CB	2.44	0.47
2:A4:825:ARG:NH1	3:A6:564:ASN:ND2	2.62	0.47
2:A4:876:ARG:CG	6:D3:557:GLU:O	2.63	0.47
2:A4:897:ASN:HB2	3:A6:177:ILE:O	2.15	0.47
2:A4:944:SER:C	4:B6:351:GLU:CG	2.19	0.47
2:A4:968:SER:CB	6:D3:201:LEU:HA	2.45	0.47
2:A4:974:PRO:CA	6:D3:499:LEU:HD11	2.25	0.47
2:A4:1341:ALA:O	2:A4:1342:SER:CB	2.63	0.47
3:A5:186:ILE:O	5:C2:745:SER:CA	2.52	0.47
3:A5:993:ASN:O	11:I5:57:GLU:CA	2.63	0.47
3:A5:994:VAL:N	11:I5:57:GLU:HG3	2.23	0.47
3:A5:999:SER:CA	11:I5:63:PRO:CD	2.93	0.47
3:A5:1019:ARG:HG2	11:I5:54:LYS:HD2	0.86	0.47
3:A5:1024:ASP:C	11:I5:68:ILE:HD12	2.40	0.47
3:A5:1053:ARG:HH11	11:I5:99:ARG:HB2	1.79	0.47
3:A5:1098:ARG:HD3	11:I5:29:GLN:HG3	1.95	0.47
3:A6:442:ARG:HE	6:D3:692:LEU:HD21	1.74	0.47
3:A6:484:PRO:HG2	6:D3:672:GLU:OE2	2.12	0.47
3:A6:520:GLU:OE1	6:D3:636:ASP:O	2.31	0.47
3:A6:564:ASN:ND2	6:D3:677:GLN:OE1	2.48	0.47
8:F1:1570:GLN:O	8:F1:1573:ASN:ND2	2.48	0.47
11:I1:875:ARG:O	17:O1:248:SER:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:877:ILE:HG13	17:O1:251:ILE:C	2.17	0.47
11:I1:887:GLN:CB	16:N1:393:ILE:CG1	2.89	0.47
11:I1:916:ALA:HB3	15:M1:586:ASP:CG	2.39	0.47
11:I1:916:ALA:CA	15:M1:585:LEU:C	2.86	0.47
11:I1:956:ILE:CG2	20:R1:166:LEU:HB3	1.99	0.47
11:I1:1013:GLU:O	16:N1:412:ASN:CA	2.62	0.47
11:I1:1070:LEU:CA	16:N1:429:GLU:HB3	2.44	0.47
11:I1:1187:SER:H	17:O2:221:ASP:CG	2.21	0.47
11:I2:840:LEU:HG	17:O3:244:GLU:CG	2.45	0.47
11:I2:877:ILE:CA	17:O3:254:ARG:HB3	2.28	0.47
11:I2:895:ARG:CD	17:O3:234:LEU:CG	2.93	0.47
11:I2:1047:CYS:C	17:O3:287:LEU:HD22	2.39	0.47
11:I2:1051:LYS:C	11:I2:1052:LEU:HD12	2.40	0.47
11:I2:1063:GLN:N	17:O3:277:GLU:OE1	2.46	0.47
11:I3:1370:VAL:CG2	12:J3:259:THR:HG21	2.41	0.47
11:I4:1366:ARG:HD2	12:J4:256:GLN:NE2	2.30	0.47
12:J1:240:GLY:O	12:J1:241:THR:OG1	2.28	0.47
17:O3:148:ARG:NH1	18:P3:325:ILE:O	2.43	0.47
18:P4:311:MET:HE3	18:P4:313:GLN:OE1	2.14	0.47
21:S1:176:MET:CE	21:S1:232:LEU:HD12	2.42	0.47
21:S1:676:GLU:O	21:S2:1128:ALA:HB2	2.14	0.47
21:S1:678:GLU:O	21:S2:1127:GLN:HG3	1.84	0.47
21:S1:924:GLN:HA	21:S1:927:ASN:CB	2.45	0.47
21:S2:1120:PRO:CD	21:S2:1155:GLN:HE22	2.19	0.47
21:S3:176:MET:CE	21:S3:232:LEU:HD12	2.42	0.47
21:S3:690:PHE:C	21:S3:692:GLU:N	2.70	0.47
21:S3:924:GLN:HA	21:S3:927:ASN:CB	2.45	0.47
21:S4:176:MET:CE	21:S4:232:LEU:HD12	2.41	0.47
21:S4:924:GLN:HA	21:S4:927:ASN:CB	2.45	0.47
21:S4:987:MET:CE	21:S4:991:LYS:HE2	2.45	0.47
21:S4:1075:CYS:HA	21:S4:1078:LEU:HD12	1.96	0.47
22:T1:741:ASP:CB	31:c5:24:GLN:HG2	2.44	0.47
22:T2:885:ARG:CG	22:T2:885:ARG:NH1	2.73	0.47
22:T3:687:GLU:O	22:T3:691:GLN:HG3	2.15	0.47
23:U1:135:ARG:HD2	31:c1:634:HIS:O	1.95	0.47
23:U1:222:VAL:O	24:V1:256:VAL:HG13	2.15	0.47
23:U1:398:ILE:HG23	31:c2:556:GLN:HA	1.88	0.47
23:U1:405:GLU:CA	31:c2:548:VAL:CB	2.92	0.47
23:U2:227:ILE:C	23:U2:229:ASN:H	2.22	0.47
23:U2:394:ILE:HA	31:c4:534:ALA:O	2.15	0.47
23:U2:395:CYS:HB3	31:c4:556:GLN:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:397:ASP:CA	31:c4:551:LEU:CD2	2.92	0.47
23:U2:428:ASN:ND2	31:c4:466:HIS:N	2.53	0.47
23:U3:8:GLN:O	23:U3:10:GLU:N	2.48	0.47
23:U3:293:ILE:HD11	23:U3:327:VAL:HG21	1.97	0.47
23:U4:222:VAL:O	24:V4:256:VAL:HG13	2.15	0.47
23:U4:293:ILE:HD11	23:U4:327:VAL:HG21	1.97	0.47
23:U4:431:ILE:HD12	23:U4:431:ILE:N	2.30	0.47
24:V1:173:ILE:HD11	25:W1:43:HIS:CD2	2.49	0.47
24:V2:151:PHE:HB2	25:W2:259:ARG:NH1	2.30	0.47
24:V2:431:ASN:HB2	24:V2:434:LYS:HB3	1.96	0.47
24:V3:317:GLY:O	24:V3:320:SER:HB3	2.13	0.47
25:W4:229:ARG:HB2	25:W4:229:ARG:HH11	1.78	0.47
26:X1:322:THR:HG23	26:X1:329:ARG:HD3	1.97	0.47
26:X1:401:LYS:CE	37:k2:450:HIS:HB3	2.39	0.47
26:X2:283:ASP:HB2	34:i:479:THR:CG2	0.96	0.47
26:X2:286:SER:O	34:i:492:TRP:CG	2.54	0.47
26:X2:287:ASP:CB	34:i:492:TRP:CB	2.85	0.47
26:X2:294:GLN:OE1	34:i:452:ILE:CG1	2.47	0.47
26:X2:368:LEU:H	34:i:438:LEU:HA	1.79	0.47
26:X3:152:LEU:CD2	26:X3:182:LEU:HB3	2.43	0.47
26:X3:417:ALA:HB1	26:X3:465:MET:HE1	1.96	0.47
26:X4:262:ILE:HG12	26:X4:289:ILE:HG23	1.96	0.47
27:Y1:159:ILE:O	27:Y1:161:PRO:HD3	2.14	0.47
27:Y1:236:LYS:HG3	27:Y1:306:GLU:OE1	2.15	0.47
27:Y2:208:LEU:HD11	27:Y2:231:ILE:HD11	1.96	0.47
27:Y3:312:TRP:CE2	27:Y3:319:LEU:HD13	2.50	0.47
28:Z1:4:LEU:HB2	28:Z1:381:SER:HB2	1.96	0.47
28:Z1:247:ASP:O	28:Z1:251:PHE:N	2.47	0.47
28:Z1:438:GLU:HB3	30:b1:314:PRO:HD2	1.93	0.47
28:Z1:531:LYS:CG	30:b1:182:PRO:O	2.61	0.47
28:Z1:541:PRO:CG	30:b1:180:GLY:HA3	2.44	0.47
28:Z2:539:GLU:OE1	30:b2:163:ASP:OD1	2.17	0.47
28:Z3:530:LYS:HB2	30:b3:185:SER:HB3	0.82	0.47
28:Z3:534:ASP:H	30:b3:164:CYS:HB3	1.77	0.47
28:Z3:559:GLU:O	30:b3:211:ILE:HB	2.15	0.47
28:Z3:561:GLN:CG	30:b3:235:LEU:HD23	2.35	0.47
28:Z3:570:LEU:O	28:Z3:574:LEU:HB2	2.15	0.47
28:Z4:407:GLY:HA2	30:b4:252:ALA:H	1.79	0.47
28:Z4:523:ASP:OD1	30:b4:239:THR:OG1	2.32	0.47
28:Z4:530:LYS:HB2	30:b4:185:SER:HB3	0.81	0.47
29:a1:240:GLY:O	29:a1:259:ALA:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a3:240:GLY:O	29:a3:259:ALA:HB3	2.15	0.47
30:b1:39:GLY:HA2	30:b1:66:THR:OG1	2.15	0.47
30:b1:143:ALA:HB2	30:b1:192:PHE:HD2	1.80	0.47
31:c1:285:MET:HE1	31:c1:346:MET:CE	2.45	0.47
31:c1:382:GLN:HG2	31:c1:406:ILE:HD12	1.97	0.47
31:c2:229:ARG:CZ	31:c2:278:LEU:HD23	2.44	0.47
31:c2:378:ASN:OD1	31:c2:379:LYS:N	2.48	0.47
31:c4:382:GLN:CG	31:c4:406:ILE:HD12	2.45	0.47
31:c5:139:LEU:HD11	31:c5:149:LYS:HD3	1.96	0.47
31:c5:382:GLN:CG	31:c5:406:ILE:HD12	2.45	0.47
32:g:209:VAL:O	32:g:209:VAL:CG2	2.62	0.47
1:A1:871:ASN:OD1	6:D3:280:GLN:N	2.48	0.47
1:A1:1036:ALA:HB1	1:A1:1043:ALA:HB2	1.95	0.47
2:A2:867:GLU:OE1	6:D1:593:ARG:NE	2.47	0.47
2:A2:870:HIS:CB	6:D1:548:LEU:CD2	2.92	0.47
2:A2:973:GLU:CG	6:D1:192:TYR:CG	2.97	0.47
1:A3:1166:LEU:CD2	3:A6:598:VAL:HB	2.45	0.47
1:A3:1226:LEU:N	2:A4:725:GLU:OE1	2.47	0.47
2:A4:75:LEU:HD21	3:A6:321:ASP:CG	2.40	0.47
2:A4:83:GLN:NE2	3:A6:324:ARG:CZ	2.78	0.47
2:A4:86:ASN:CA	3:A6:394:LEU:CA	2.90	0.47
2:A4:86:ASN:HA	3:A6:394:LEU:O	2.15	0.47
2:A4:769:GLU:CG	3:A6:477:PHE:CE2	2.97	0.47
2:A4:778:PHE:HA	6:D3:676:ALA:O	2.14	0.47
2:A4:820:LYS:HZ1	3:A6:166:LEU:HG	1.77	0.47
2:A4:864:ARG:HG2	6:D3:609:ILE:CB	2.45	0.47
2:A4:875:LEU:HG	6:D3:564:ASN:OD1	2.14	0.47
2:A4:965:LYS:CD	6:D3:199:GLY:C	2.77	0.47
2:A4:978:ASP:C	6:D3:476:VAL:N	2.72	0.47
2:A4:989:MSE:CE	6:D3:240:ASP:CB	2.83	0.47
3:A5:790:ASP:OD1	3:A5:790:ASP:N	2.35	0.47
3:A5:995:VAL:HG12	11:I5:58:ALA:HB2	1.96	0.47
3:A6:444:ARG:CZ	6:D3:733:ALA:CB	2.90	0.47
3:A6:1135:ARG:HG2	5:C6:743:LEU:O	2.15	0.47
6:D3:422:CYS:SG	6:D3:423:PHE:N	2.88	0.47
6:D6:639:LEU:HD22	6:D6:689:PHE:CD2	2.50	0.47
6:D7:422:CYS:SG	6:D7:423:PHE:N	2.88	0.47
6:D7:512:LEU:HA	11:I3:181:GLN:N	2.30	0.47
6:D7:615:VAL:HG23	6:D7:616:ALA:N	2.29	0.47
11:I1:873:ILE:HG22	17:O1:254:ARG:HB3	1.97	0.47
11:I1:916:ALA:CB	15:M1:586:ASP:CG	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:942:HIS:CA	17:O1:260:LEU:N	2.77	0.47
11:I1:1602:PHE:CB	11:I2:1666:THR:HG21	2.44	0.47
11:I1:1667:GLN:HE22	11:I2:1662:ARG:HA	1.78	0.47
11:I2:954:GLU:CD	16:N3:402:GLY:CA	2.86	0.47
11:I2:994:ALA:HB3	17:O3:268:GLY:C	2.39	0.47
11:I2:1036:PRO:HD2	15:M3:626:HIS:ND1	2.28	0.47
11:I2:1054:ILE:HA	17:O3:281:ALA:H	1.69	0.47
11:I4:656:MET:O	11:I4:659:LYS:NZ	2.45	0.47
11:I4:1013:GLU:OE1	11:I4:1013:GLU:N	2.41	0.47
18:P1:311:MET:HE3	18:P1:313:GLN:OE1	2.14	0.47
21:S3:676:GLU:O	21:S4:1142:PHE:HA	2.14	0.47
21:S4:1119:LEU:C	21:S4:1121:GLU:N	2.71	0.47
23:U1:406:GLU:CA	31:c2:548:VAL:CG2	2.82	0.47
24:V4:492:LEU:HD12	24:V4:508:ILE:HD13	1.96	0.47
25:W1:229:ARG:HB2	25:W1:229:ARG:HH11	1.78	0.47
25:W3:12:ILE:HA	25:W3:28:SER:HA	1.96	0.47
25:W4:12:ILE:HG23	25:W4:27:CYS:O	2.15	0.47
26:X1:226:GLN:O	26:X1:230:VAL:HG23	2.15	0.47
26:X1:262:ILE:HG12	26:X1:289:ILE:HG23	1.95	0.47
26:X2:321:ALA:CB	34:i:84:ARG:HG2	2.45	0.47
26:X2:361:LEU:HD23	34:i:441:LEU:HD21	1.95	0.47
26:X3:322:THR:HG23	26:X3:329:ARG:HD3	1.97	0.47
27:Y4:140:LEU:O	27:Y4:142:PRO:HD3	2.15	0.47
27:Y4:208:LEU:HD11	27:Y4:231:ILE:HD11	1.97	0.47
28:Z1:556:ASN:OD1	30:b1:212:PHE:CD2	2.68	0.47
28:Z1:967:PHE:HA	28:Z1:978:ALA:HB2	1.96	0.47
28:Z2:247:ASP:O	28:Z2:251:PHE:N	2.47	0.47
28:Z2:967:PHE:HA	28:Z2:978:ALA:HB2	1.96	0.47
28:Z3:541:PRO:CG	30:b3:180:GLY:HA3	2.44	0.47
28:Z4:410:ASN:CG	30:b4:252:ALA:HB2	2.23	0.47
30:b3:280:TRP:CE2	30:b3:305:PRO:HB3	2.49	0.47
31:c1:439:TRP:CB	31:c1:517:LEU:HD13	2.45	0.47
31:c2:382:GLN:HG2	31:c2:406:ILE:HD12	1.97	0.47
31:c3:285:MET:HE1	31:c3:346:MET:CE	2.45	0.47
31:c3:382:GLN:HG2	31:c3:406:ILE:HD12	1.97	0.47
31:c4:285:MET:HE1	31:c4:346:MET:CE	2.45	0.47
31:c5:285:MET:HE1	31:c5:346:MET:CE	2.45	0.47
1:A1:871:ASN:OD1	6:D3:279:HIS:N	2.48	0.47
2:A2:781:ARG:NH2	6:D1:674:TYR:CE1	2.81	0.47
2:A2:1255:LEU:HB3	2:A2:1256:PRO:HD3	1.97	0.47
1:A3:1048:ARG:HD2	6:D3:790:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1099:GLN:CG	11:I2:1414:CYS:C	2.64	0.47
1:A3:1198:GLU:OE1	3:A6:679:TYR:CA	2.62	0.47
1:A3:1204:TRP:CZ2	3:A6:95:TYR:CE2	3.03	0.47
1:A3:1257:VAL:N	3:A6:638:GLU:OE2	2.48	0.47
2:A4:87:GLN:N	3:A6:393:HIS:N	2.25	0.47
2:A4:93:ASP:CA	3:A6:361:ASP:CB	2.60	0.47
2:A4:550:VAL:HG23	3:A6:455:LEU:HD21	1.97	0.47
2:A4:550:VAL:HG21	3:A6:367:ASP:C	2.40	0.47
2:A4:798:LYS:HD3	3:A6:314:TRP:CZ2	2.50	0.47
2:A4:802:TYR:CD2	3:A6:397:LEU:CD2	2.86	0.47
2:A4:820:LYS:O	3:A6:167:TRP:HH2	1.97	0.47
2:A4:855:THR:HG21	3:A6:168:ASP:CA	2.45	0.47
2:A4:867:GLU:N	6:D3:598:ILE:CG1	2.54	0.47
2:A4:989:MSE:HB3	6:D3:240:ASP:HA	1.97	0.47
2:A4:1277:TRP:N	2:A4:1278:PRO:CD	2.77	0.47
3:A5:993:ASN:HA	11:I5:57:GLU:CA	2.43	0.47
3:A5:1101:GLN:OE1	11:I5:33:THR:HG22	2.14	0.47
6:D1:422:CYS:SG	6:D1:423:PHE:N	2.88	0.47
6:D3:615:VAL:HG23	6:D3:616:ALA:N	2.29	0.47
6:D5:422:CYS:SG	6:D5:423:PHE:N	2.88	0.47
8:F2:1570:GLN:O	8:F2:1573:ASN:ND2	2.48	0.47
11:I1:947:LEU:CD2	16:N1:408:MET:HA	2.44	0.47
11:I1:1036:PRO:N	15:M1:623:LEU:C	2.73	0.47
11:I1:1048:GLU:C	15:M1:622:VAL:HG12	2.40	0.47
11:I1:1068:HIS:CE1	16:N1:431:VAL:CG2	2.98	0.47
11:I1:1668:HIS:CA	11:I2:1664:PHE:CE2	2.94	0.47
11:I2:874:LEU:CA	17:O3:255:GLY:H	2.22	0.47
11:I2:950:LEU:CD1	16:N3:407:ALA:HA	2.41	0.47
11:I2:951:LYS:NZ	16:N3:402:GLY:C	2.67	0.47
11:I2:956:ILE:CA	20:R3:166:LEU:HB2	2.45	0.47
11:I2:1048:GLU:HB3	17:O3:284:LYS:CA	2.37	0.47
11:I2:1054:ILE:CA	17:O3:280:GLU:C	2.86	0.47
11:I3:1267:LEU:HD11	26:X1:529:TRP:HE3	0.67	0.47
11:I4:1271:GLU:HG2	26:X3:528:GLU:OE2	2.14	0.47
22:T1:832:VAL:CG2	31:c5:23:ARG:HH11	2.28	0.47
22:T2:911:LEU:HD23	22:T2:914:GLN:NE2	2.30	0.47
23:U1:86:ASN:C	23:U1:88:ASP:H	2.23	0.47
23:U2:19:LEU:O	31:c4:483:ASP:C	2.58	0.47
23:U2:431:ILE:CD1	23:U2:431:ILE:H	2.28	0.47
23:U3:431:ILE:HD12	23:U3:431:ILE:N	2.30	0.47
24:V2:173:ILE:HD11	25:W2:43:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W4:227:GLN:OE1	25:W4:256:VAL:HG11	2.15	0.47
27:Y2:42:THR:HG22	29:a2:248:ARG:HD2	1.97	0.47
28:Z2:163:PRO:HA	28:Z2:178:LEU:HA	1.96	0.47
28:Z3:438:GLU:OE1	30:b3:333:HIS:NE2	2.46	0.47
28:Z3:556:ASN:OD1	30:b3:202:VAL:CG2	2.63	0.47
28:Z4:534:ASP:CB	30:b4:183:LEU:N	2.33	0.47
28:Z4:561:GLN:CG	30:b4:237:LEU:H	2.28	0.47
30:b2:244:ASN:HB3	30:b2:246:CYS:SG	2.55	0.47
30:b4:244:ASN:HB3	30:b4:246:CYS:SG	2.55	0.47
31:c3:439:TRP:CB	31:c3:517:LEU:HD13	2.45	0.47
31:c4:378:ASN:OD1	31:c4:379:LYS:N	2.48	0.47
31:c5:263:ASP:OD1	31:c5:400:PHE:HB3	2.15	0.47
33:h:91:VAL:CG1	33:h:93:SER:O	2.63	0.47
1:A1:1223:GLU:CD	2:A2:734:LEU:HD11	2.40	0.47
2:A2:781:ARG:CD	6:D1:673:ARG:HD2	2.45	0.47
2:A2:871:ASN:OD1	6:D1:573:LEU:N	2.40	0.47
2:A2:977:VAL:HA	6:D1:496:LEU:CD1	2.38	0.47
2:A2:1159:ASP:H	3:A5:176:LEU:HB2	1.80	0.47
1:A3:1186:TRP:CE3	3:A6:617:VAL:HG12	2.50	0.47
2:A4:85:VAL:O	3:A6:392:LEU:HD22	2.15	0.47
2:A4:397:LEU:HD12	2:A4:468:GLY:HA3	1.97	0.47
2:A4:672:ARG:CG	3:A6:96:PRO:CD	1.78	0.47
2:A4:710:LEU:HB2	3:A6:480:VAL:HG23	1.38	0.47
2:A4:712:THR:O	3:A6:490:PHE:HZ	1.76	0.47
2:A4:801:THR:HG21	3:A6:381:LEU:HG	1.97	0.47
2:A4:855:THR:HB	3:A6:168:ASP:H	1.77	0.47
2:A4:873:PRO:HA	6:D3:568:ARG:HD3	1.35	0.47
2:A4:886:PHE:N	3:A6:174:PRO:C	2.72	0.47
2:A4:965:LYS:HD3	6:D3:199:GLY:HA2	1.04	0.47
2:A4:1255:LEU:HB3	2:A4:1256:PRO:HD3	1.98	0.47
3:A5:220:VAL:HA	5:C2:738:ASP:CA	2.45	0.47
3:A5:1372:THR:CB	28:Z2:828:LEU:CA	2.86	0.47
3:A5:1394:VAL:O	28:Z2:874:ASN:CB	2.37	0.47
3:A5:1414:PHE:N	28:Z2:961:PHE:CB	2.76	0.47
3:A6:1415:PHE:C	28:Z4:1001:LEU:H	2.23	0.47
6:D1:615:VAL:HG23	6:D1:616:ALA:N	2.29	0.47
6:D2:192:TYR:OH	6:D2:498:GLU:OE1	2.33	0.47
6:D3:639:LEU:HD22	6:D3:689:PHE:CD2	2.50	0.47
6:D7:440:PHE:CE1	6:D7:444:LEU:HD11	2.50	0.47
8:F2:1137:GLN:CB	17:O4:251:ILE:CG1	2.91	0.47
11:I1:886:LEU:HB2	17:O1:242:ARG:CB	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1061:ASP:N	17:O1:279:ILE:HD12	2.30	0.47
11:I1:1639:LEU:HD21	11:I2:1673:VAL:HB	1.97	0.47
11:I1:1668:HIS:O	11:I2:1668:HIS:HB3	2.14	0.47
11:I2:300:LEU:O	11:I2:300:LEU:HD23	2.14	0.47
11:I2:840:LEU:HD13	17:O3:247:TRP:CD1	2.45	0.47
11:I2:884:LEU:CD1	16:N3:400:LEU:HG	2.43	0.47
11:I2:884:LEU:O	16:N3:397:GLU:CA	2.63	0.47
11:I2:950:LEU:CG	16:N3:410:MET:CE	2.84	0.47
11:I2:951:LYS:HB2	16:N3:404:GLU:HA	1.39	0.47
11:I2:967:SER:CA	20:R3:153:GLN:NE2	2.64	0.47
11:I2:1013:GLU:OE1	11:I2:1013:GLU:N	2.41	0.47
11:I2:1021:ILE:CG1	16:N3:410:MET:HG3	2.45	0.47
11:I2:1030:ARG:H	20:R3:171:ALA:C	2.21	0.47
11:I2:1037:THR:OG1	15:M3:620:VAL:CG1	2.59	0.47
11:I2:1048:GLU:OE2	17:O3:288:GLU:OE2	2.33	0.47
11:I2:1584:LEU:HD21	12:J2:275:PHE:CE1	2.50	0.47
11:I5:1366:ARG:HD2	12:J5:256:GLN:NE2	2.30	0.47
17:O1:85:LYS:HD2	17:O1:94:ALA:HB2	1.96	0.47
21:S1:352:LEU:O	21:S1:374:THR:HA	2.15	0.47
21:S3:987:MET:CE	21:S3:991:LYS:HE2	2.45	0.47
21:S4:1052:LEU:C	21:S4:1055:LEU:HD23	2.41	0.47
22:T1:777:ILE:O	22:T1:780:PRO:HG3	2.15	0.47
23:U1:405:GLU:CA	31:c2:548:VAL:HB	2.45	0.47
23:U2:43:ARG:N	31:c4:474:ASN:H	2.13	0.47
23:U2:207:SER:HG	24:V2:359:TYR:HH	1.60	0.47
23:U2:293:ILE:HD11	23:U2:327:VAL:HG21	1.97	0.47
23:U2:397:ASP:OD2	31:c4:551:LEU:HD22	2.12	0.47
23:U3:314:ILE:HD12	24:V3:309:LYS:HE3	1.97	0.47
24:V2:360:LYS:HG3	24:V2:366:PRO:HA	1.98	0.47
24:V3:304:VAL:HG13	24:V3:323:ILE:HG22	1.97	0.47
24:V4:483:GLU:OE2	24:V4:514:ARG:NH2	2.35	0.47
25:W2:12:ILE:HG23	25:W2:27:CYS:O	2.15	0.47
25:W3:227:GLN:OE1	25:W3:256:VAL:HG11	2.15	0.47
26:X1:249:LEU:O	26:X1:253:VAL:HG23	2.15	0.47
26:X2:186:ARG:HG3	26:X2:190:PHE:HB2	1.97	0.47
26:X2:208:LEU:HD22	34:i:445:GLN:CD	2.38	0.47
26:X2:282:PHE:O	34:i:493:PRO:O	2.33	0.47
26:X2:392:GLN:HB3	26:X2:393:PRO:HD3	1.96	0.47
26:X2:511:TYR:HA	26:X2:512:PRO:HD3	1.73	0.47
26:X3:226:GLN:O	26:X3:230:VAL:HG23	2.15	0.47
26:X4:152:LEU:HD22	26:X4:179:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:522:MET:HE1	26:X4:538:ILE:HD12	1.98	0.47
27:Y3:41:ASP:HA	29:a3:231[B]:HIS:NE2	2.17	0.47
27:Y3:42:THR:HG22	29:a3:248:ARG:HD2	1.97	0.47
28:Z1:400:LYS:O	30:b1:252:ALA:HB2	2.12	0.47
28:Z1:531:LYS:CD	30:b1:183:LEU:N	2.63	0.47
28:Z2:402:GLY:HA2	30:b2:254:SER:OG	1.98	0.47
28:Z3:531:LYS:CD	30:b3:183:LEU:CB	2.71	0.47
28:Z4:554:PHE:HB2	30:b4:232:PRO:HB2	1.24	0.47
30:b1:147:SER:OG	30:b1:148:ALA:N	2.48	0.47
30:b3:147:SER:OG	30:b3:148:ALA:N	2.48	0.47
31:c1:263:ASP:OD1	31:c1:400:PHE:HB3	2.15	0.47
31:c2:228:TRP:HZ3	31:c2:272:LEU:CD2	2.27	0.47
31:c2:263:ASP:OD1	31:c2:400:PHE:HB3	2.15	0.47
31:c4:382:GLN:HG2	31:c4:406:ILE:HD12	1.97	0.47
1:A1:868:GLN:O	6:D3:280:GLN:CB	2.59	0.46
2:A2:970:PHE:HA	6:D1:192:TYR:CE2	1.67	0.46
1:A3:1236:GLN:HB3	3:A6:118:SER:CA	2.40	0.46
1:A3:1250:PRO:HG2	3:A6:635:ARG:H	1.69	0.46
1:A3:1259:CYS:HA	3:A6:624:ASP:CG	2.40	0.46
1:A3:1318:TRP:CZ3	3:A6:624:ASP:OD1	2.66	0.46
2:A4:276:GLN:NE2	4:B4:355:PRO:CD	2.78	0.46
2:A4:549:ALA:CB	3:A6:105:GLY:C	2.76	0.46
2:A4:553:ASP:N	3:A6:456:ASP:O	2.48	0.46
2:A4:611:ILE:HB	3:A6:508:LEU:CD1	2.39	0.46
2:A4:713:ILE:N	3:A6:462:LEU:HD21	2.30	0.46
2:A4:904:GLN:CG	3:A6:137:HIS:CE1	2.83	0.46
2:A4:909:LYS:HE2	6:D3:552:TYR:HD2	1.28	0.46
3:A5:147:LEU:O	5:C2:747:PRO:HG3	2.15	0.46
3:A5:164:LEU:HD22	5:C2:742:ASP:HB2	1.12	0.46
3:A5:175:GLU:HG2	5:C2:733:LEU:CD1	2.44	0.46
3:A5:1095:GLY:HA2	11:I5:1:MET:O	2.10	0.46
6:D1:440:PHE:CE1	6:D1:444:LEU:HD11	2.50	0.46
6:D2:422:CYS:SG	6:D2:423:PHE:N	2.88	0.46
6:D7:530:ARG:HB3	11:I3:181:GLN:HG3	1.14	0.46
8:F1:731:ASP:OD1	8:F1:732:VAL:N	2.45	0.46
8:F1:1569:VAL:HG23	8:F1:1570:GLN:N	2.31	0.46
11:I1:923:GLY:C	15:M1:591:ASP:O	2.58	0.46
11:I1:945:LEU:HB3	17:O1:259:ASP:H	1.78	0.46
11:I1:1060:PHE:HD2	17:O1:279:ILE:CD1	2.13	0.46
11:I2:916:ALA:C	15:M3:585:LEU:O	2.58	0.46
11:I2:937:TYR:O	17:O3:262:ASP:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:983:LEU:HD21	15:M3:604:ASN:ND2	2.30	0.46
11:I2:1049:LEU:CD2	17:O3:291:ASP:OD2	2.63	0.46
17:O3:108:VAL:N	17:O3:109:PRO:CD	2.78	0.46
21:S1:987:MET:CE	21:S1:991:LYS:HE2	2.45	0.46
21:S1:1120:PRO:CD	21:S1:1155:GLN:HE22	2.19	0.46
21:S2:123:LEU:HD22	21:S2:125:ILE:HG13	1.96	0.46
21:S2:924:GLN:HA	21:S2:927:ASN:CB	2.45	0.46
21:S4:1020:LEU:HD22	21:S4:1020:LEU:N	2.30	0.46
22:T1:911:LEU:HD23	22:T1:914:GLN:NE2	2.30	0.46
23:U1:397:ASP:OD1	31:c2:549:ALA:CA	2.63	0.46
23:U1:405:GLU:HA	31:c2:548:VAL:HB	1.97	0.46
23:U1:434:THR:HG21	31:c2:478:SER:C	2.36	0.46
23:U1:437:ASN:OD1	31:c2:540:HIS:HD2	1.98	0.46
23:U2:435:PHE:HD1	31:c4:461:PHE:HD1	1.52	0.46
23:U4:86:ASN:OD1	23:U4:400:ASN:ND2	2.48	0.46
24:V1:156:THR:HG22	24:V1:514:ARG:CD	2.45	0.46
24:V3:151:PHE:HB2	25:W3:259:ARG:NH1	2.30	0.46
24:V4:304:VAL:HG13	24:V4:323:ILE:HG22	1.97	0.46
26:X1:533:GLU:H	26:X1:533:GLU:HG2	1.45	0.46
26:X2:313:LEU:HD22	34:i:478:PRO:HG3	0.51	0.46
27:Y3:159:ILE:O	27:Y3:161:PRO:HD3	2.15	0.46
28:Z1:490:VAL:HG22	28:Z1:590:GLN:HG3	1.97	0.46
28:Z2:556:ASN:OD1	30:b2:212:PHE:CD2	2.68	0.46
28:Z2:559:GLU:O	30:b2:211:ILE:HB	2.15	0.46
28:Z3:247:ASP:O	28:Z3:251:PHE:N	2.47	0.46
28:Z3:523:ASP:OD1	30:b3:239:THR:OG1	2.32	0.46
28:Z3:561:GLN:HG3	30:b3:236:THR:C	2.39	0.46
28:Z3:739:PHE:O	28:Z3:743:ASN:N	2.36	0.46
31:c1:382:GLN:CG	31:c1:406:ILE:HD12	2.45	0.46
31:c2:139:LEU:HD11	31:c2:149:LYS:HD3	1.96	0.46
31:c3:229:ARG:CZ	31:c3:278:LEU:HD23	2.44	0.46
31:c5:212:LYS:HE2	31:c5:239:TYR:OH	2.14	0.46
31:c5:378:ASN:OD1	31:c5:379:LYS:N	2.48	0.46
1:A1:1224:PRO:O	2:A2:734:LEU:CD2	2.63	0.46
2:A2:981:PRO:HG3	6:D1:504:LYS:HG3	1.90	0.46
1:A3:1166:LEU:HB3	3:A6:595:GLU:HB2	1.58	0.46
1:A3:1189:LEU:CD1	3:A6:614:ALA:HA	2.15	0.46
2:A4:90:GLN:HB2	3:A6:407:SER:N	2.31	0.46
2:A4:227:SER:CB	6:D3:709:ARG:HA	2.41	0.46
2:A4:540:GLN:CD	3:A6:357:SER:O	2.58	0.46
2:A4:721:ARG:CA	3:A6:494:PRO:N	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:902:VAL:H	4:B6:342:ARG:N	2.13	0.46
3:A5:175:GLU:CB	5:C2:733:LEU:CD1	2.90	0.46
3:A5:996:ASN:OD1	11:I5:55:ASP:C	2.57	0.46
3:A5:1094:ILE:HD12	11:I5:34:LEU:CD2	2.45	0.46
3:A5:1098:ARG:NH1	11:I5:29:GLN:HG2	2.15	0.46
3:A5:1391:ARG:HE	28:Z2:872:TYR:N	2.12	0.46
3:A5:1394:VAL:CG1	28:Z2:875:LEU:N	2.78	0.46
3:A6:486:GLN:HA	6:D3:674:TYR:HB3	1.97	0.46
3:A6:518:GLU:CB	6:D3:686:ASP:C	2.88	0.46
6:D3:440:PHE:CE1	6:D3:444:LEU:HD11	2.50	0.46
6:D5:234:LEU:CD1	31:c3:552:ARG:CZ	2.93	0.46
6:D6:440:PHE:CE1	6:D6:444:LEU:HD11	2.50	0.46
8:F1:1267:ARG:CG	17:O2:265:ASN:CB	2.87	0.46
11:I1:938:CYS:SG	15:M1:606:LEU:O	2.73	0.46
11:I1:977:ASN:N	20:R1:146:LEU:O	2.47	0.46
11:I1:1049:LEU:HB2	20:R1:146:LEU:HD22	1.98	0.46
11:I1:1049:LEU:CA	17:O1:291:ASP:HB2	2.39	0.46
11:I2:948:ALA:CB	17:O3:257:ALA:N	2.62	0.46
11:I2:980:ILE:CA	15:M3:618:GLN:HG3	2.43	0.46
11:I2:980:ILE:HD12	15:M3:622:VAL:CG2	2.34	0.46
11:I2:1051:LYS:NZ	17:O3:285:LYS:HZ2	2.13	0.46
11:I2:1067:PHE:CD1	16:N3:429:GLU:C	2.93	0.46
11:I4:1426:SER:CB	12:J4:263:MET:SD	3.04	0.46
21:S2:1020:LEU:HD22	21:S2:1020:LEU:N	2.30	0.46
21:S3:601:LEU:CB	21:S4:1156:ILE:C	2.88	0.46
21:S3:882:GLN:C	21:S3:884:ARG:N	2.69	0.46
21:S4:975:LYS:HD3	22:T4:882:SER:HB2	1.97	0.46
22:T2:702:SER:HB3	22:T2:704:LYS:HE3	1.97	0.46
23:U1:409:LYS:HZ3	31:c2:538:LEU:HD22	1.80	0.46
23:U2:15:PHE:CG	31:c4:478:SER:HB3	2.50	0.46
23:U2:435:PHE:HB3	31:c4:536:CYS:O	1.70	0.46
23:U3:86:ASN:C	23:U3:88:ASP:H	2.23	0.46
23:U3:159:ASP:OD2	24:V3:319:LEU:HB2	2.15	0.46
23:U3:222:VAL:O	24:V3:256:VAL:HG13	2.15	0.46
25:W3:191:ALA:C	25:W3:193:THR:H	2.23	0.46
26:X2:187:THR:HG21	34:i:444:GLU:CA	2.27	0.46
26:X2:321:ALA:N	34:i:84:ARG:NH2	2.55	0.46
26:X2:322:THR:HG23	26:X2:329:ARG:HD3	1.97	0.46
26:X2:366:PRO:HD3	34:i:421:ILE:CD1	2.45	0.46
27:Y1:41:ASP:O	29:a1:231[B]:HIS:NE2	2.45	0.46
27:Y1:42:THR:HG22	29:a1:248:ARG:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y2:312:TRP:CE2	27:Y2:319:LEU:HD13	2.50	0.46
27:Y4:312:TRP:CE2	27:Y4:319:LEU:HD13	2.50	0.46
28:Z1:570:LEU:O	28:Z1:574:LEU:HB2	2.15	0.46
28:Z2:556:ASN:OD1	30:b2:202:VAL:CG2	2.63	0.46
28:Z3:402:GLY:HA2	30:b3:254:SER:OG	1.98	0.46
28:Z3:623:LEU:HA	28:Z3:623:LEU:HD23	1.74	0.46
28:Z4:4:LEU:HB2	28:Z4:381:SER:HB2	1.96	0.46
28:Z4:541:PRO:HD2	28:Z4:544:MET:HE2	1.96	0.46
29:a4:240:GLY:O	29:a4:259:ALA:HB3	2.15	0.46
30:b1:244:ASN:HB3	30:b1:246:CYS:SG	2.55	0.46
30:b4:279:ARG:NH1	30:b4:327:ASP:OD1	2.43	0.46
31:c1:229:ARG:CZ	31:c1:278:LEU:HD23	2.44	0.46
31:c5:439:TRP:CB	31:c5:517:LEU:HD13	2.45	0.46
1:A1:869:ALA:N	6:D3:280:GLN:CG	2.78	0.46
2:A2:276:GLN:NE2	4:B2:355:PRO:CD	2.78	0.46
2:A2:867:GLU:CA	6:D1:605:THR:HB	2.44	0.46
2:A2:868:GLN:HE21	6:D1:608:ILE:HG13	1.35	0.46
2:A2:911:TYR:CE2	6:D1:555:ARG:CZ	2.80	0.46
2:A2:980:ARG:N	6:D1:473:GLU:CD	2.73	0.46
2:A2:1121:LEU:O	3:A5:132:ASP:O	2.32	0.46
2:A2:1304:GLU:O	2:A2:1305:ALA:C	2.58	0.46
1:A3:1162:ASN:HB2	3:A6:649:GLY:CA	2.45	0.46
1:A3:1164:TYR:CE1	3:A6:642:ARG:O	2.57	0.46
1:A3:1165:ASP:OD1	3:A6:598:VAL:HG11	2.16	0.46
1:A3:1195:PHE:HA	3:A6:679:TYR:N	2.29	0.46
1:A3:1233:GLN:CG	3:A6:578:ILE:CG2	2.91	0.46
1:A3:1236:GLN:CD	3:A6:578:ILE:HG12	2.38	0.46
1:A3:1248:ILE:CD1	3:A6:587:VAL:N	2.49	0.46
1:A3:1254:LEU:H	3:A6:634:ASP:CB	2.28	0.46
1:A3:1258:VAL:CA	3:A6:621:GLN:C	2.73	0.46
2:A4:90:GLN:H	3:A6:406:LEU:CA	2.29	0.46
2:A4:715:GLU:C	3:A6:492:SER:HB3	2.40	0.46
2:A4:717:VAL:HG11	3:A6:476:PHE:H	1.79	0.46
2:A4:719:ARG:HG3	3:A6:514:GLY:H	1.75	0.46
2:A4:873:PRO:HB2	6:D3:568:ARG:HG2	1.05	0.46
2:A4:926:ASP:OD1	2:A4:929:ASN:N	2.48	0.46
2:A4:982:THR:O	6:D3:502:LEU:HD23	2.16	0.46
3:A5:996:ASN:HD21	11:I5:58:ALA:HB3	1.67	0.46
3:A5:999:SER:C	11:I5:62:GLU:HB2	2.41	0.46
3:A6:444:ARG:NE	6:D3:733:ALA:CA	2.77	0.46
6:D5:594:LYS:NZ	24:V2:255:GLN:NE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:179:ASP:OD2	11:I3:49:PRO:CA	2.63	0.46
8:F1:1571:VAL:O	8:F1:1574:ILE:HG13	2.16	0.46
8:F2:1569:VAL:HG23	8:F2:1570:GLN:N	2.31	0.46
8:F2:1775:VAL:O	8:F2:1776:THR:HG22	2.15	0.46
11:I1:846:ILE:CB	17:O1:247:TRP:CH2	2.98	0.46
11:I1:921:GLU:C	15:M1:592:LEU:C	2.83	0.46
11:I1:925:LEU:HG	15:M1:593:ALA:HA	1.98	0.46
11:I1:951:LYS:CB	17:O1:253:LEU:CD1	2.80	0.46
11:I1:1673:VAL:HA	11:I2:1611:PHE:C	2.38	0.46
11:I2:962:ILE:HD12	20:R3:164:PRO:HB2	1.97	0.46
11:I2:1052:LEU:CD2	17:O3:283:ALA:HB1	2.44	0.46
11:I2:1066:LEU:CG	16:N3:430:ARG:HB3	2.36	0.46
11:I2:1607:GLN:HB2	12:J1:298:PHE:CE1	2.50	0.46
11:I4:820:ALA:N	26:X3:501:LYS:HZ3	2.13	0.46
11:I4:1272:TYR:CZ	29:a3:24[A]:GLY:HA3	2.50	0.46
21:S3:1052:LEU:C	21:S3:1055:LEU:HD23	2.41	0.46
22:T1:687:GLU:O	22:T1:691:GLN:HG3	2.15	0.46
22:T3:911:LEU:HD23	22:T3:914:GLN:NE2	2.30	0.46
22:T4:687:GLU:O	22:T4:691:GLN:HG3	2.15	0.46
22:T4:777:ILE:O	22:T4:780:PRO:HG3	2.15	0.46
23:U1:159:ASP:OD2	24:V1:319:LEU:HB2	2.16	0.46
23:U1:404:VAL:N	31:c2:549:ALA:N	2.58	0.46
23:U1:434:THR:HA	31:c2:464:LEU:HD11	1.97	0.46
23:U2:8:GLN:O	23:U2:10:GLU:N	2.48	0.46
23:U2:396:LEU:C	31:c4:551:LEU:HD23	2.41	0.46
23:U2:398:ILE:N	31:c4:531:TRP:O	2.42	0.46
23:U2:434:THR:N	31:c4:460:LEU:CB	2.75	0.46
26:X2:249:LEU:O	26:X2:253:VAL:HG23	2.15	0.46
26:X2:329:ARG:HD2	34:i:476:LEU:HG	0.49	0.46
26:X2:522:MET:HE1	26:X2:538:ILE:HD12	1.97	0.46
26:X3:51:MET:HB3	27:Y3:346:THR:C	2.41	0.46
26:X3:152:LEU:HD22	26:X3:179:LEU:HD12	1.97	0.46
26:X3:511:TYR:HA	26:X3:512:PRO:HD3	1.73	0.46
26:X4:249:LEU:O	26:X4:253:VAL:HG23	2.15	0.46
27:Y1:312:TRP:CE2	27:Y1:319:LEU:HD13	2.50	0.46
27:Y2:16:VAL:HG12	27:Y2:63:TRP:HD1	1.81	0.46
27:Y3:208:LEU:HD11	27:Y3:231:ILE:HD11	1.97	0.46
28:Z1:447:GLU:HG3	30:b1:248:SER:HB3	1.94	0.46
28:Z1:556:ASN:OD1	30:b1:202:VAL:CG2	2.63	0.46
28:Z2:561:GLN:HB2	30:b2:235:LEU:CA	2.45	0.46
28:Z3:535:ILE:CD1	30:b3:182:PRO:CG	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a2:240:GLY:O	29:a2:259:ALA:HB3	2.15	0.46
30:b2:195:SER:HB2	30:b2:264:ASP:HA	1.96	0.46
30:b3:244:ASN:HB3	30:b3:246:CYS:SG	2.55	0.46
31:c1:378:ASN:OD1	31:c1:379:LYS:N	2.48	0.46
31:c2:157:GLU:OE2	31:c2:161:ARG:NH1	2.49	0.46
31:c3:95:ASP:N	31:c3:95:ASP:OD1	2.48	0.46
31:c4:228:TRP:HZ3	31:c4:272:LEU:CD2	2.27	0.46
31:c4:439:TRP:CB	31:c4:517:LEU:HD13	2.45	0.46
1:A3:1181:THR:HA	3:A6:642:ARG:NH1	2.24	0.46
1:A3:1271:ILE:CA	3:A6:550:VAL:CG1	2.91	0.46
2:A4:85:VAL:CB	3:A6:405:PHE:HD1	2.28	0.46
2:A4:692:VAL:CG1	3:A6:467:LEU:CB	2.93	0.46
2:A4:736:PRO:HD2	3:A6:682:ARG:HG2	1.97	0.46
2:A4:855:THR:HG21	3:A6:168:ASP:C	2.29	0.46
2:A4:868:GLN:HE21	6:D3:608:ILE:HG13	1.73	0.46
2:A4:898:LEU:CD1	4:B6:342:ARG:CA	2.94	0.46
2:A4:950:ASP:OD2	4:B6:349:MET:N	2.48	0.46
2:A4:1304:GLU:O	2:A4:1305:ALA:C	2.58	0.46
3:A5:1415:PHE:HB2	28:Z2:960:CYS:N	2.31	0.46
8:F1:982:PRO:CG	11:I1:1388:GLU:HG3	2.45	0.46
8:F1:984:ALA:O	8:F1:988:ARG:NH1	2.48	0.46
8:F2:137:ASN:HA	17:O4:237:PRO:HG3	1.96	0.46
11:I1:951:LYS:HD2	16:N1:400:LEU:C	2.36	0.46
11:I1:967:SER:O	15:M1:628:ALA:CB	2.63	0.46
11:I1:1366:ARG:HD2	12:J1:256:GLN:NE2	2.30	0.46
11:I2:988:GLU:O	15:M3:611:LYS:N	2.48	0.46
11:I2:1016:ARG:HB3	16:N3:411:GLN:HG3	1.25	0.46
11:I3:1275:SER:CB	26:X1:522:MET:CG	2.77	0.46
21:S1:1013:LEU:HD12	21:S1:1013:LEU:C	2.41	0.46
21:S2:1052:LEU:C	21:S2:1055:LEU:HD23	2.41	0.46
21:S3:680:PRO:O	21:S3:681:SER:C	2.56	0.46
23:U1:8:GLN:O	23:U1:10:GLU:N	2.48	0.46
23:U1:86:ASN:OD1	23:U1:400:ASN:ND2	2.48	0.46
23:U2:15:PHE:CD2	31:c4:478:SER:HB3	2.50	0.46
23:U2:35:PRO:CB	31:c4:531:TRP:NE1	2.53	0.46
23:U2:222:VAL:O	24:V2:256:VAL:HG13	2.15	0.46
23:U2:404:VAL:HG22	31:c4:547:ASN:HB3	1.98	0.46
23:U4:8:GLN:O	23:U4:10:GLU:N	2.48	0.46
23:U4:144:TRP:CH2	23:U4:158:LEU:HA	2.51	0.46
24:V2:352:ASP:HB3	24:V2:355:ILE:HD13	1.97	0.46
25:W2:12:ILE:HA	25:W2:28:SER:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:417:ALA:HB1	26:X1:465:MET:HE1	1.96	0.46
26:X2:301:SER:HB3	34:i:326:ILE:C	2.40	0.46
26:X2:365:ILE:HB	34:i:424:LEU:HB2	1.97	0.46
26:X2:369:GLU:CA	34:i:428:LEU:HD21	2.26	0.46
28:Z1:531:LYS:NZ	30:b1:166:LEU:HB2	2.20	0.46
28:Z1:541:PRO:HD2	28:Z1:544:MET:HE2	1.96	0.46
28:Z2:410:ASN:CG	30:b2:252:ALA:HB2	2.23	0.46
28:Z2:523:ASP:C	30:b2:238:ASN:CA	2.74	0.46
28:Z4:438:GLU:CB	30:b4:333:HIS:CE1	2.99	0.46
29:a3:214[B]:THR:HG21	29:a3:252[B]:MET:HE2	1.98	0.46
31:c1:228:TRP:HZ3	31:c1:272:LEU:CD2	2.27	0.46
31:c2:212:LYS:HE2	31:c2:239:TYR:OH	2.14	0.46
31:c2:233:THR:HG22	31:c2:278:LEU:HA	1.98	0.46
31:c4:233:THR:HG22	31:c4:278:LEU:HA	1.98	0.46
31:c4:263:ASP:OD1	31:c4:400:PHE:HB3	2.15	0.46
33:h:239:PHE:HE2	33:h:241:LEU:HD11	1.64	0.46
1:A1:1220:PRO:HD2	2:A2:647:GLU:N	2.28	0.46
1:A1:1393:THR:CB	2:A2:851:ASP:OD1	2.64	0.46
2:A2:872:ALA:C	6:D1:565:MET:HA	2.39	0.46
2:A2:983:LEU:CB	6:D1:553:PHE:CB	2.66	0.46
2:A2:1070:ASP:OD2	3:A5:126:ARG:HB2	2.15	0.46
2:A2:1138:GLU:HG3	3:A5:562:LEU:CD1	2.36	0.46
2:A2:1341:ALA:O	2:A2:1342:SER:CB	2.63	0.46
1:A3:1166:LEU:CA	3:A6:594:LEU:C	2.87	0.46
1:A3:1198:GLU:HB2	3:A6:678:LEU:C	2.39	0.46
1:A3:1223:GLU:HB3	2:A4:724:LEU:CD2	2.25	0.46
2:A4:546:ASN:CG	3:A6:365:MET:HE2	2.41	0.46
2:A4:669:LEU:HA	3:A6:542:LEU:CG	2.45	0.46
2:A4:682:ARG:HE	3:A6:105:GLY:C	2.07	0.46
2:A4:798:LYS:HE3	3:A6:264:GLU:HB3	1.97	0.46
2:A4:825:ARG:HA	3:A6:135:PHE:HA	1.97	0.46
2:A4:955:CYS:HB2	4:B6:345:LYS:HB2	1.97	0.46
3:A5:164:LEU:HA	5:C2:744:PHE:N	2.23	0.46
3:A5:943:ASP:OD2	3:A5:945:ARG:NE	2.43	0.46
3:A5:1056:PHE:CG	11:I5:37:GLU:HA	2.29	0.46
3:A5:1101:GLN:OE1	11:I5:33:THR:HG21	2.11	0.46
3:A6:484:PRO:CG	6:D3:672:GLU:OE2	2.63	0.46
6:D1:192:TYR:OH	6:D1:498:GLU:OE1	2.33	0.46
6:D4:192:TYR:OH	6:D4:498:GLU:OE1	2.32	0.46
6:D5:243:LYS:H	31:c3:470:ARG:NH2	2.13	0.46
8:F1:1261:TYR:HB3	17:O2:259:ASP:OD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:253:SER:N	15:M2:601:ASP:HB3	2.06	0.46
11:I1:880:MET:CB	17:O1:250:LEU:H	2.28	0.46
11:I1:936:LYS:HG2	15:M1:609:GLY:HA2	1.97	0.46
11:I1:937:TYR:C	17:O1:258:GLU:HA	2.39	0.46
11:I1:947:LEU:O	16:N1:407:ALA:CB	2.59	0.46
11:I1:1739:GLU:HB3	11:I2:1540:LYS:HD3	1.96	0.46
11:I2:874:LEU:HB2	17:O3:255:GLY:HA3	1.88	0.46
11:I2:882:LYS:HG3	17:O3:249:ARG:HG3	1.97	0.46
11:I2:884:LEU:HD12	16:N3:400:LEU:HD11	0.52	0.46
11:I2:895:ARG:N	17:O3:239:GLN:CG	2.73	0.46
11:I2:1060:PHE:HB3	17:O3:277:GLU:HB3	1.35	0.46
11:I3:288:ILE:O	11:I3:292:GLY:N	2.46	0.46
11:I3:1276:GLN:HE21	26:X1:535:ALA:N	2.08	0.46
17:O1:108:VAL:N	17:O1:109:PRO:CD	2.79	0.46
21:S1:652:VAL:CA	21:S2:1156:ILE:O	2.61	0.46
21:S1:1020:LEU:HD22	21:S1:1020:LEU:N	2.30	0.46
21:S2:934:HIS:C	21:S2:934:HIS:CD2	2.94	0.46
21:S2:1058:ILE:O	21:S2:1059:ASP:CB	2.58	0.46
21:S4:1013:LEU:HD12	21:S4:1013:LEU:C	2.41	0.46
23:U1:314:ILE:HD12	24:V1:309:LYS:HE3	1.98	0.46
23:U2:22:PHE:HB3	31:c4:479:ILE:HD11	1.96	0.46
23:U2:23:LYS:HD3	31:c4:484:LEU:HD13	1.98	0.46
23:U2:86:ASN:OD1	23:U2:400:ASN:ND2	2.48	0.46
23:U3:144:TRP:CH2	23:U3:158:LEU:HA	2.50	0.46
26:X1:186:ARG:HG3	26:X1:190:PHE:HB2	1.97	0.46
27:Y1:16:VAL:HG12	27:Y1:63:TRP:HD1	1.81	0.46
28:Z1:523:ASP:OD1	30:b1:239:THR:OG1	2.32	0.46
28:Z3:561:GLN:HB2	30:b3:235:LEU:CA	2.46	0.46
28:Z4:407:GLY:CA	30:b4:251:ILE:CG1	2.89	0.46
28:Z4:526:ARG:CB	30:b4:206:ASN:CB	2.66	0.46
28:Z4:556:ASN:OD1	30:b4:202:VAL:CG2	2.63	0.46
28:Z4:570:LEU:O	28:Z4:574:LEU:HB2	2.15	0.46
30:b2:147:SER:OG	30:b2:148:ALA:N	2.48	0.46
30:b3:277:TRP:CZ2	30:b3:309:GLY:HA3	2.51	0.46
31:c2:285:MET:HE1	31:c2:346:MET:CE	2.45	0.46
31:c3:233:THR:HG22	31:c3:278:LEU:HA	1.98	0.46
31:c3:378:ASN:OD1	31:c3:379:LYS:N	2.48	0.46
31:c4:11:TYR:O	31:c4:14:SER:OG	2.23	0.46
32:g:324:THR:O	32:g:350:GLU:HA	2.14	0.46
2:A2:825:ARG:NH1	2:A2:826:ASN:OD1	2.42	0.46
2:A2:968:SER:HG	6:D1:200:HIS:N	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:974:PRO:O	6:D1:498:GLU:N	2.47	0.46
2:A2:977:VAL:H	6:D1:502:LEU:HD13	1.79	0.46
2:A2:1126:VAL:CG1	3:A5:139:ASN:ND2	2.78	0.46
1:A3:1184:ASP:N	3:A6:642:ARG:NE	2.45	0.46
1:A3:1191:ASN:OD1	3:A6:615:LEU:O	2.32	0.46
1:A3:1202:GLU:HG3	3:A6:91:LEU:N	2.27	0.46
1:A3:1225:PRO:HD2	2:A4:727:ASN:CB	2.03	0.46
1:A3:1258:VAL:HA	3:A6:621:GLN:C	2.32	0.46
1:A3:1325:MET:HG2	3:A6:126:ARG:HD3	1.97	0.46
2:A4:90:GLN:HB2	3:A6:407:SER:CA	2.45	0.46
2:A4:200:VAL:HG23	4:B4:351:GLU:O	2.11	0.46
2:A4:767:ILE:CA	3:A6:469:PHE:C	2.50	0.46
2:A4:774:VAL:HG12	3:A6:479:VAL:CG1	2.45	0.46
2:A4:824:ASN:CG	3:A6:167:TRP:CZ3	2.93	0.46
2:A4:879:LEU:CA	6:D3:564:ASN:HB2	2.44	0.46
3:A6:521:ASN:N	6:D3:639:LEU:HD11	2.31	0.46
5:C1:732:LYS:NZ	11:I1:1225:LYS:HB3	2.26	0.46
6:D5:192:TYR:OH	6:D5:498:GLU:OE1	2.33	0.46
6:D6:800:PRO:HG2	22:T3:765:LYS:CE	2.42	0.46
8:F1:1392:LEU:CD2	17:O2:266:GLN:NE2	2.59	0.46
11:I1:873:ILE:CG2	17:O1:255:GLY:N	2.58	0.46
11:I1:886:LEU:HB3	17:O1:242:ARG:HG2	0.91	0.46
11:I1:916:ALA:CA	15:M1:586:ASP:N	2.73	0.46
11:I1:958:THR:HB	16:N1:399:HIS:HA	1.96	0.46
11:I1:967:SER:HB2	15:M1:625:GLY:O	2.14	0.46
11:I1:1021:ILE:C	16:N1:406:HIS:ND1	2.71	0.46
11:I1:1104:LEU:CA	16:N1:436:ALA:CB	2.78	0.46
11:I1:1738:TYR:C	11:I2:1603:ARG:O	2.58	0.46
11:I2:849:LEU:CD2	17:O3:251:ILE:HD11	2.46	0.46
11:I2:878:GLN:N	17:O3:253:LEU:N	2.64	0.46
11:I2:899:LEU:HD11	17:O3:234:LEU:CA	2.45	0.46
11:I2:911:PRO:CA	15:M3:584:GLN:HE21	2.22	0.46
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD1	2.45	0.46
11:I3:1051:LYS:C	11:I3:1052:LEU:HD12	2.40	0.46
11:I5:504:ALA:CB	11:I5:508:LEU:HD23	2.46	0.46
21:S1:1016:LYS:NZ	21:S1:1039:GLU:HG3	2.31	0.46
21:S2:690:PHE:C	21:S2:692:GLU:N	2.71	0.46
21:S2:699:ILE:C	21:S2:701:GLU:H	2.24	0.46
21:S3:1020:LEU:HD22	21:S3:1020:LEU:N	2.30	0.46
21:S3:1124:ASP:OD1	21:S3:1124:ASP:C	2.58	0.46
21:S4:1124:ASP:OD1	21:S4:1124:ASP:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T3:885:ARG:CG	22:T3:885:ARG:NH1	2.73	0.46
23:U1:293:ILE:HD11	23:U1:327:VAL:HG21	1.97	0.46
23:U1:401:PRO:CB	31:c2:554:LEU:HB3	2.45	0.46
23:U2:25:GLU:CG	31:c4:486:VAL:CG1	2.85	0.46
23:U2:407:VAL:HG11	31:c4:162:PRO:HD2	1.96	0.46
23:U3:86:ASN:OD1	23:U3:400:ASN:ND2	2.48	0.46
23:U3:279:TYR:HD1	25:W4:189:SER:HB3	1.60	0.46
23:U4:86:ASN:C	23:U4:88:ASP:H	2.23	0.46
23:U4:207:SER:O	23:U4:211:ILE:HG13	2.15	0.46
24:V2:178:THR:HG22	24:V2:180:LEU:H	1.81	0.46
24:V4:151:PHE:HB2	25:W4:259:ARG:NH1	2.30	0.46
24:V4:352:ASP:HB3	24:V4:355:ILE:HD13	1.97	0.46
25:W2:16:VAL:HG21	25:W2:59:VAL:O	2.16	0.46
26:X1:392:GLN:HB3	26:X1:393:PRO:HD3	1.96	0.46
26:X2:300:SER:N	34:i:368[A]:CYS:CA	2.75	0.46
26:X2:361:LEU:N	34:i:423:LYS:CG	2.78	0.46
26:X3:522:MET:HE1	26:X3:538:ILE:HD12	1.98	0.46
26:X4:322:THR:HG23	26:X4:329:ARG:HD3	1.97	0.46
27:Y3:140:LEU:O	27:Y3:142:PRO:HD3	2.15	0.46
28:Z2:438:GLU:OE1	30:b2:333:HIS:CG	2.69	0.46
28:Z2:490:VAL:HG22	28:Z2:590:GLN:HG3	1.98	0.46
28:Z2:570:LEU:O	28:Z2:574:LEU:HB2	2.15	0.46
28:Z4:177:PHE:CD1	28:Z4:183:LEU:HD22	2.51	0.46
30:b1:191:GLN:OE1	30:b1:259:ARG:HD2	2.16	0.46
30:b1:195:SER:HB2	30:b1:264:ASP:HA	1.96	0.46
30:b4:147:SER:OG	30:b4:148:ALA:N	2.48	0.46
30:b4:195:SER:HB2	30:b4:264:ASP:HA	1.96	0.46
31:c5:95:ASP:N	31:c5:95:ASP:OD1	2.48	0.46
32:g:124:ASP:OD1	32:g:126:ARG:HD3	2.16	0.46
33:h:139:GLN:O	33:h:142:THR:OG1	2.28	0.46
2:A2:866:SER:H	6:D1:605:THR:N	2.14	0.46
2:A2:968:SER:OG	6:D1:200:HIS:N	2.44	0.46
2:A2:1148:ARG:CG	3:A5:174:PRO:HD3	2.43	0.46
2:A2:1153:LEU:HD23	3:A5:174:PRO:HD2	1.98	0.46
1:A3:1021:LEU:HD11	6:D3:819:ASN:CB	2.46	0.46
1:A3:1188:ASN:HA	3:A6:723:PHE:CE2	2.48	0.46
1:A3:1245:ASP:CB	3:A6:588:SER:HG	2.05	0.46
1:A3:1250:PRO:CG	3:A6:635:ARG:H	2.26	0.46
2:A4:540:GLN:HE22	3:A6:358:CYS:C	2.24	0.46
2:A4:574:ARG:CB	3:A6:454:GLN:HA	2.46	0.46
2:A4:735:ALA:HB1	3:A6:682:ARG:CG	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:823:VAL:HG22	3:A6:130:ILE:HG13	1.49	0.46
2:A4:853:VAL:HA	3:A6:128:HIS:CB	2.45	0.46
2:A4:868:GLN:CD	6:D3:608:ILE:HB	2.37	0.46
2:A4:985:ALA:CA	6:D3:500:LYS:HA	2.44	0.46
6:D4:422:CYS:SG	6:D4:423:PHE:N	2.88	0.46
8:F2:984:ALA:O	8:F2:988:ARG:NH1	2.48	0.46
9:G1:258:LYS:HD2	16:N2:404:GLU:O	2.16	0.46
11:I1:875:ARG:O	17:O1:248:SER:CB	2.63	0.46
11:I1:931:VAL:HG13	15:M1:604:ASN:CG	2.41	0.46
11:I1:1016:ARG:O	16:N1:409:ALA:HA	2.12	0.46
11:I1:1017:VAL:CA	16:N1:412:ASN:N	2.36	0.46
11:I1:1017:VAL:HG22	17:O1:260:LEU:CD2	2.45	0.46
11:I1:1033:PRO:O	16:N1:441:PHE:CZ	2.60	0.46
11:I1:1035:GLN:HG2	15:M1:625:GLY:C	2.41	0.46
11:I1:1584:LEU:HD21	12:J1:275:PHE:CE1	2.51	0.46
11:I1:1668:HIS:HD2	11:I2:1672:VAL:CG2	2.28	0.46
11:I2:833:PHE:CZ	17:O3:241:SER:O	2.60	0.46
11:I2:887:GLN:HA	17:O3:242:ARG:CB	2.45	0.46
11:I2:915:ALA:HB3	15:M3:583:ASP:C	2.40	0.46
11:I2:950:LEU:CD1	16:N3:410:MET:CG	2.32	0.46
11:I2:984:GLU:HB3	15:M3:618:GLN:NE2	2.15	0.46
11:I2:1040:HIS:CE1	16:N3:437:VAL:HG12	2.46	0.46
11:I2:1052:LEU:N	17:O3:286:ILE:CA	2.76	0.46
11:I2:1103:LEU:CB	20:R3:174:ARG:CB	2.76	0.46
11:I2:1370:VAL:CG2	12:J2:259:THR:HG21	2.41	0.46
11:I5:1051:LYS:C	11:I5:1052:LEU:HD12	2.40	0.46
21:S2:1016:LYS:NZ	21:S2:1039:GLU:HG3	2.31	0.46
21:S2:1119:LEU:N	21:S2:1120:PRO:CD	2.79	0.46
21:S4:1127:GLN:C	21:S4:1129:ASP:N	2.74	0.46
22:T2:687:GLU:O	22:T2:691:GLN:HG3	2.15	0.46
23:U1:139:VAL:HG23	31:c1:635:SER:OG	2.06	0.46
23:U1:194:ASP:OD2	31:c1:620:ASN:CA	2.60	0.46
23:U1:219:LEU:HD22	23:U1:227:ILE:HG12	1.98	0.46
23:U2:219:LEU:HD22	23:U2:227:ILE:HG12	1.98	0.46
23:U3:157:ASP:OD1	23:U3:163:ARG:NH2	2.46	0.46
24:V1:178:THR:HG22	24:V1:180:LEU:H	1.81	0.46
24:V1:280:GLU:HG3	31:c1:28:LYS:HZ2	1.70	0.46
25:W4:16:VAL:HG21	25:W4:59:VAL:O	2.16	0.46
26:X2:333:GLU:OE1	34:i:475:ILE:HG22	2.15	0.46
26:X3:186:ARG:HG3	26:X3:190:PHE:HB2	1.97	0.46
26:X4:51:MET:HB3	27:Y4:346:THR:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:141:ASN:C	26:X4:145:ASN:HD22	2.24	0.46
26:X4:226:GLN:O	26:X4:230:VAL:HG23	2.15	0.46
27:Y1:140:LEU:O	27:Y1:142:PRO:HD3	2.15	0.46
27:Y1:208:LEU:HD11	27:Y1:231:ILE:HD11	1.97	0.46
27:Y2:236:LYS:HG3	27:Y2:306:GLU:OE1	2.15	0.46
27:Y4:144:ASP:C	27:Y4:146:ARG:H	2.24	0.46
28:Z1:559:GLU:O	30:b1:211:ILE:HB	2.15	0.46
28:Z2:4:LEU:HB2	28:Z2:381:SER:HB2	1.96	0.46
30:b1:130:LYS:O	30:b1:134:HIS:NE2	2.41	0.46
30:b2:277:TRP:CZ2	30:b2:309:GLY:HA3	2.51	0.46
30:b4:39:GLY:HA2	30:b4:66:THR:OG1	2.15	0.46
31:c1:233:THR:HG22	31:c1:278:LEU:HA	1.98	0.46
31:c4:139:LEU:HD11	31:c4:149:LYS:HD3	1.96	0.46
2:A2:1054:SER:C	6:D2:762:ARG:CA	2.62	0.46
1:A3:1195:PHE:CD1	3:A6:608:VAL:HG13	2.50	0.46
1:A3:1318:TRP:CE2	3:A6:624:ASP:HB3	2.51	0.46
1:A3:1325:MET:HE2	3:A6:126:ARG:HH21	1.72	0.46
1:A3:1328:ARG:HD3	3:A6:127:HIS:C	2.40	0.46
2:A4:75:LEU:HA	3:A6:322:ASP:CB	2.46	0.46
2:A4:673:HIS:C	3:A6:100:SER:HB2	2.09	0.46
2:A4:754:HIS:C	3:A6:544:PHE:HA	2.30	0.46
2:A4:778:PHE:CD1	3:A6:466:ALA:HB3	2.51	0.46
2:A4:898:LEU:CA	3:A6:176:LEU:C	2.79	0.46
2:A4:898:LEU:CB	3:A6:176:LEU:O	2.61	0.46
3:A5:1368:GLN:HG2	28:Z2:828:LEU:CB	2.45	0.46
3:A6:442:ARG:CD	6:D3:691:LEU:HG	2.17	0.46
3:A6:1413:SER:C	28:Z4:994:ILE:O	2.59	0.46
6:D4:639:LEU:HD22	6:D4:689:PHE:CD2	2.50	0.46
8:F1:1205:TRP:CG	17:O2:254:ARG:CG	2.97	0.46
8:F1:1266:MET:N	17:O2:262:ASP:CB	2.74	0.46
8:F2:535:ILE:CG1	8:F2:536:PRO:HD2	2.46	0.46
11:I1:504:ALA:CB	11:I1:508:LEU:HD23	2.46	0.46
11:I1:878:GLN:N	17:O1:252:VAL:CB	2.79	0.46
11:I1:895:ARG:HA	17:O1:236:ASP:N	2.31	0.46
11:I1:931:VAL:CG1	15:M1:604:ASN:CG	2.83	0.46
11:I1:1056:PRO:HA	17:O1:278:GLU:HG3	1.81	0.46
11:I1:1426:SER:CB	12:J1:263:MET:SD	3.04	0.46
11:I2:504:ALA:CB	11:I2:508:LEU:HD23	2.46	0.46
11:I2:877:ILE:HA	17:O3:254:ARG:HB2	1.97	0.46
11:I2:882:LYS:CG	17:O3:249:ARG:CG	2.84	0.46
11:I2:896:PRO:HD3	17:O3:233:THR:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:922:ASP:H	15:M3:592:LEU:HB3	1.80	0.46
11:I2:932:VAL:HG13	15:M3:612:PRO:CG	2.46	0.46
11:I2:935:GLY:HA3	15:M3:604:ASN:O	2.15	0.46
11:I2:958:THR:O	20:R3:176:ARG:NH1	2.48	0.46
11:I2:977:ASN:CB	20:R3:147:LEU:CA	2.74	0.46
11:I2:1020:ALA:HB3	16:N3:410:MET:HB3	1.97	0.46
11:I2:1021:ILE:CG1	16:N3:410:MET:CG	2.93	0.46
11:I4:1270:LYS:HD2	26:X3:527:VAL:CG1	2.39	0.46
12:J5:240:GLY:O	12:J5:241:THR:OG1	2.28	0.46
17:O3:147:ALA:C	18:P3:328:PRO:HB2	2.41	0.46
21:S1:677:TYR:O	21:S2:1127:GLN:HB2	2.07	0.46
21:S1:1052:LEU:HA	21:S1:1055:LEU:HD23	1.98	0.46
21:S3:449:ASP:HB2	21:S3:467:ASN:ND2	2.31	0.46
21:S3:975:LYS:HD3	22:T3:882:SER:HB2	1.97	0.46
21:S3:1016:LYS:NZ	21:S3:1039:GLU:HG3	2.31	0.46
21:S3:1052:LEU:HA	21:S3:1055:LEU:HD23	1.98	0.46
21:S4:1001:PHE:HB2	21:S4:1057:TYR:CE1	2.51	0.46
22:T4:917:ASP:OD1	22:T4:921:TYR:N	2.47	0.46
23:U1:139:VAL:HG12	31:c1:633:PHE:HD2	1.80	0.46
23:U1:431:ILE:CD1	23:U1:431:ILE:H	2.28	0.46
23:U2:284:SER:O	23:U2:288:ILE:HG12	2.16	0.46
23:U2:399:ILE:HD11	31:c4:557:HIS:N	2.25	0.46
23:U2:437:ASN:C	31:c4:195:ILE:HD12	2.33	0.46
23:U3:278:GLN:HE21	25:W4:189:SER:HA	1.50	0.46
24:V2:156:THR:HG22	24:V2:514:ARG:CD	2.45	0.46
25:W1:227:GLN:OE1	25:W1:256:VAL:HG11	2.15	0.46
26:X1:153:ASN:HA	26:X1:156:GLU:OE1	2.16	0.46
26:X2:152:LEU:HD22	26:X2:179:LEU:HD12	1.97	0.46
26:X2:280:VAL:HG13	34:i:14:TRP:CE2	2.47	0.46
26:X4:153:ASN:HA	26:X4:156:GLU:OE1	2.16	0.46
28:Z1:438:GLU:OE1	30:b1:333:HIS:CG	2.69	0.46
28:Z4:247:ASP:HB2	28:Z4:254:ILE:HG13	1.98	0.46
28:Z4:554:PHE:CE1	30:b4:233:TRP:O	2.67	0.46
28:Z4:561:GLN:HB2	30:b4:235:LEU:CA	2.45	0.46
29:a1:214[B]:THR:HG21	29:a1:252[B]:MET:HE2	1.98	0.46
30:b2:191:GLN:OE1	30:b2:259:ARG:HD2	2.16	0.46
30:b2:264:ASP:OD1	30:b2:264:ASP:N	2.40	0.46
30:b3:170:ARG:HD3	30:b3:214:TRP:CZ3	2.51	0.46
32:g:153:ILE:HD13	32:g:170:ALA:HA	1.98	0.46
33:h:77:VAL:CG1	33:h:295:ILE:HG23	2.45	0.46
2:A2:864:ARG:HB3	6:D1:609:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1148:ARG:O	3:A5:173:ASN:HB3	2.06	0.46
1:A3:1120:ASP:O	3:A6:595:GLU:HG2	2.15	0.46
1:A3:1120:ASP:C	3:A6:599:ARG:CZ	2.86	0.46
1:A3:1169:LEU:HG	3:A6:594:LEU:CD1	2.44	0.46
1:A3:1186:TRP:CE3	3:A6:617:VAL:CG1	2.99	0.46
1:A3:1201:ARG:CD	3:A6:549:ALA:H	2.29	0.46
1:A3:1230:TYR:HD2	2:A4:726:ALA:O	1.90	0.46
2:A4:80:LYS:HG2	3:A6:386:ALA:H	1.21	0.46
2:A4:85:VAL:CG1	3:A6:395:MET:N	2.79	0.46
2:A4:679:TYR:HA	3:A6:431:PHE:CZ	2.51	0.46
2:A4:703:SER:CA	3:A6:465:SER:C	2.85	0.46
2:A4:718:GLU:CD	3:A6:491:VAL:HG12	2.40	0.46
2:A4:728:LYS:CG	3:A6:548:LEU:HD22	2.41	0.46
2:A4:948:ALA:CA	3:A6:235:TYR:CE1	2.95	0.46
3:A5:999:SER:HB2	11:I5:64:LYS:HE3	1.98	0.46
3:A5:1026:PRO:HD2	11:I5:102:ILE:HD11	1.84	0.46
3:A5:1135:ARG:HG2	5:C5:743:LEU:O	2.15	0.46
3:A6:1367:THR:HG22	28:Z4:876:LEU:N	2.16	0.46
3:A6:1416:ARG:C	28:Z4:1002:MET:H	2.23	0.46
6:D2:440:PHE:CE1	6:D2:444:LEU:HD11	2.50	0.46
6:D5:236:THR:HA	31:c3:477:GLU:HG3	1.97	0.46
11:I1:919:ALA:O	15:M1:592:LEU:CG	2.64	0.46
11:I1:924:ILE:CD1	15:M1:596:ILE:CG1	2.88	0.46
11:I1:926:SER:OG	20:R1:156:GLY:CA	2.57	0.46
11:I1:957:SER:HA	20:R1:166:LEU:HD12	1.96	0.46
11:I1:1036:PRO:CA	16:N1:441:PHE:CZ	2.99	0.46
11:I1:1610:VAL:CG1	11:I2:1669:ARG:CZ	2.93	0.46
11:I2:884:LEU:HB3	16:N3:396:ILE:C	2.41	0.46
11:I2:895:ARG:CZ	16:N3:386:MET:CE	2.78	0.46
11:I2:946:THR:CA	17:O3:257:ALA:O	2.61	0.46
11:I2:990:GLU:N	17:O3:275:LEU:HD23	2.30	0.46
11:I2:1030:ARG:HD3	20:R3:175:GLN:OE1	2.12	0.46
11:I2:1036:PRO:CB	17:O3:287:LEU:HD21	2.46	0.46
11:I3:1122:ASN:O	11:I3:1126:HIS:ND1	2.42	0.46
11:I3:1275:SER:HA	26:X1:508:LEU:HG	0.99	0.46
17:O3:90:HIS:N	17:O3:91:PRO:CD	2.79	0.46
21:S1:677:TYR:O	21:S2:1124:ASP:O	2.09	0.46
21:S1:682:ASN:HA	21:S1:684:THR:HA	1.98	0.46
21:S1:934:HIS:C	21:S1:934:HIS:CD2	2.94	0.46
21:S1:1119:LEU:N	21:S1:1120:PRO:CD	2.79	0.46
21:S2:987:MET:CE	21:S2:991:LYS:HE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1013:LEU:HD12	21:S3:1013:LEU:C	2.41	0.46
21:S4:352:LEU:O	21:S4:374:THR:HA	2.16	0.46
22:T1:828:TRP:O	22:T1:830:VAL:HG23	2.16	0.46
22:T2:828:TRP:O	22:T2:830:VAL:HG23	2.16	0.46
22:T3:702:SER:HB3	22:T3:704:LYS:HE3	1.97	0.46
22:T3:777:ILE:O	22:T3:780:PRO:HG3	2.16	0.46
22:T3:828:TRP:O	22:T3:830:VAL:HG23	2.16	0.46
23:U1:440:ASP:O	31:c2:463:HIS:HD2	1.86	0.46
23:U2:405:GLU:CA	31:c4:544:VAL:CG2	2.78	0.46
23:U3:431:ILE:H	23:U3:431:ILE:CD1	2.28	0.46
23:U4:284:SER:O	23:U4:288:ILE:HG12	2.16	0.46
25:W1:95:HIS:NE2	25:W1:138:PRO:HB3	2.31	0.46
25:W3:257:LEU:HA	25:W3:273:GLY:HA2	1.98	0.46
25:W4:191:ALA:C	25:W4:193:THR:H	2.23	0.46
26:X1:51:MET:HB3	27:Y1:346:THR:C	2.41	0.46
26:X2:51:MET:HB3	27:Y2:346:THR:C	2.41	0.46
26:X2:284:ALA:HA	34:i:479:THR:HA	1.92	0.46
26:X2:417:ALA:HB1	26:X2:465:MET:HE1	1.96	0.46
27:Y1:219:SER:HG	27:Y1:312:TRP:HD1	1.61	0.46
27:Y2:140:LEU:O	27:Y2:142:PRO:HD3	2.15	0.46
27:Y3:16:VAL:HG12	27:Y3:63:TRP:HD1	1.81	0.46
28:Z1:544:MET:HE2	30:b1:180:GLY:HA3	1.89	0.46
28:Z4:401:THR:CB	30:b4:253:SER:CA	2.79	0.46
28:Z4:521:SER:O	30:b4:238:ASN:HB3	2.13	0.46
30:b1:170:ARG:HD3	30:b1:214:TRP:CZ3	2.51	0.46
30:b1:277:TRP:CZ2	30:b1:309:GLY:HA3	2.51	0.46
31:c4:95:ASP:N	31:c4:95:ASP:OD1	2.48	0.46
1:A1:1070:ASP:OD2	11:I1:1238:LYS:CG	2.64	0.46
2:A2:779:ASP:HB3	6:D1:679:ILE:N	2.31	0.46
2:A2:780:GLU:O	6:D1:676:ALA:N	2.48	0.46
2:A2:976:LEU:HD12	6:D1:501:LEU:HD13	1.32	0.46
2:A2:1142:PHE:CD1	3:A5:566:GLY:CA	2.95	0.46
2:A2:1344:ALA:O	2:A2:1345:SER:HB2	2.16	0.46
1:A3:1243:SER:N	3:A6:585:ASN:CA	2.78	0.46
1:A3:1395:LYS:N	3:A6:227:SER:OG	2.48	0.46
2:A4:673:HIS:ND1	3:A6:98:LEU:N	2.51	0.46
2:A4:701:ILE:HG23	3:A6:464:PRO:HB2	1.97	0.46
2:A4:718:GLU:O	3:A6:121:PRO:HB3	2.16	0.46
2:A4:735:ALA:N	3:A6:92:ASP:CB	2.79	0.46
2:A4:735:ALA:CB	3:A6:682:ARG:HG2	2.43	0.46
2:A4:737:PRO:CD	3:A6:93:ASP:OD2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:CA	6:D3:605:THR:CG2	2.94	0.46
2:A4:868:GLN:CG	6:D3:570:VAL:HG11	2.17	0.46
2:A4:947:LYS:NZ	3:A6:220:VAL:N	2.64	0.46
2:A4:975:GLU:N	6:D3:496:LEU:HA	2.31	0.46
3:A5:177:ILE:CD1	5:C2:736:ASN:C	2.79	0.46
3:A5:1003:PHE:HD2	11:I5:62:GLU:OE1	1.98	0.46
3:A5:1027:HIS:NE2	11:I5:65:LYS:HB2	2.15	0.46
3:A5:1395:LYS:CG	28:Z2:873:LEU:CA	2.61	0.46
3:A5:1398:LYS:HB2	28:Z2:874:ASN:HA	1.97	0.46
6:D5:440:PHE:CE1	6:D5:444:LEU:HD11	2.50	0.46
6:D7:179:ASP:OD1	11:I3:49:PRO:CB	2.33	0.46
6:D7:226:MET:HE1	6:D7:464:GLN:HG2	1.98	0.46
8:F1:302:PRO:O	8:F1:355:ARG:NE	2.49	0.46
8:F2:332:VAL:O	8:F2:336:ALA:N	2.48	0.46
11:I1:939:ASN:CA	17:O1:264:ILE:C	2.89	0.46
11:I1:952:LEU:HD12	16:N1:400:LEU:HD21	0.46	0.46
11:I1:984:GLU:HB2	15:M1:618:GLN:CD	2.34	0.46
11:I1:992:ILE:N	15:M1:608:LYS:CA	2.37	0.46
11:I2:841:PHE:O	15:M3:591:ASP:CB	2.55	0.46
11:I2:978:LYS:HZ1	20:R3:154:ALA:N	2.14	0.46
11:I2:983:LEU:O	15:M3:613:ASP:CA	2.64	0.46
11:I2:1049:LEU:HD21	17:O3:291:ASP:CG	2.40	0.46
11:I2:1426:SER:CB	12:J2:263:MET:SD	3.04	0.46
11:I4:1584:LEU:HD21	12:J4:275:PHE:CE1	2.51	0.46
15:M3:598:GLU:OE1	17:O3:254:ARG:NH1	2.40	0.46
17:O2:108:VAL:N	17:O2:109:PRO:CD	2.78	0.46
21:S1:449:ASP:HB2	21:S1:467:ASN:ND2	2.31	0.46
21:S2:1052:LEU:HA	21:S2:1055:LEU:HD23	1.98	0.46
21:S3:682:ASN:HA	21:S3:684:THR:HA	1.98	0.46
21:S3:1073:ILE:HD12	21:S3:1073:ILE:C	2.41	0.46
22:T1:702:SER:HB3	22:T1:704:LYS:HE3	1.98	0.46
23:U2:35:PRO:HD3	31:c4:629:LEU:CD2	2.45	0.46
23:U2:159:ASP:OD2	24:V2:319:LEU:HB2	2.15	0.46
23:U2:356:PRO:HD3	31:c4:550:LYS:HB3	1.98	0.46
23:U2:416:TYR:H	31:c4:541:ARG:HH11	1.64	0.46
23:U2:431:ILE:CG1	31:c4:464:LEU:HB3	2.40	0.46
24:V1:360:LYS:HG3	24:V1:366:PRO:HA	1.97	0.46
24:V3:156:THR:HG22	24:V3:514:ARG:CD	2.45	0.46
24:V3:360:LYS:HG3	24:V3:366:PRO:HA	1.97	0.46
24:V4:156:THR:HG22	24:V4:514:ARG:CD	2.45	0.46
25:W4:257:LEU:HA	25:W4:273:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:141:ASN:C	26:X1:145:ASN:ND2	2.74	0.46
26:X2:283:ASP:HB3	34:i:479:THR:CG2	0.62	0.46
26:X2:324:ILE:HD11	34:i:476:LEU:HB2	1.96	0.46
28:Z1:551:THR:HG22	30:b1:233:TRP:HZ3	0.63	0.46
28:Z2:177:PHE:CD1	28:Z2:183:LEU:HD22	2.51	0.46
28:Z4:521:SER:O	30:b4:238:ASN:CB	2.65	0.46
31:c1:157:GLU:OE2	31:c1:161:ARG:NH1	2.49	0.46
1:A1:1098:ARG:NH2	11:I1:1421:ARG:NH2	2.64	0.45
2:A2:1132:PRO:HG3	3:A5:160:ILE:HA	1.97	0.45
1:A3:1161:ALA:O	3:A6:648:TYR:CA	2.64	0.45
1:A3:1236:GLN:HG2	3:A6:573:ARG:HH11	1.81	0.45
2:A4:680:LEU:CD2	3:A6:470:ARG:HE	2.26	0.45
2:A4:691:LYS:CE	3:A6:316:ARG:HB2	2.45	0.45
2:A4:763:LEU:HD21	3:A6:470:ARG:HD3	1.52	0.45
2:A4:821:ALA:O	3:A6:138:LEU:CD1	2.63	0.45
2:A4:868:GLN:CD	6:D3:570:VAL:CB	2.88	0.45
2:A4:875:LEU:HD12	6:D3:567:LEU:HD23	0.68	0.45
2:A4:880:ALA:HB2	6:D3:562:GLY:O	2.03	0.45
2:A4:892:SER:HA	3:A6:232:LEU:HB2	1.95	0.45
2:A4:980:ARG:HB2	6:D3:473:GLU:HA	1.30	0.45
2:A4:1055:ARG:CD	6:D4:762:ARG:HA	2.40	0.45
3:A6:486:GLN:CB	6:D3:671:ALA:O	2.64	0.45
3:A6:1408:GLU:O	26:X4:686:ASP:CB	2.63	0.45
6:D4:440:PHE:CE1	6:D4:444:LEU:HD11	2.50	0.45
8:F1:1264:ARG:HE	17:O2:263:GLN:HG3	1.18	0.45
9:G1:263:MET:HB2	17:O2:260:LEU:HB2	1.98	0.45
11:I1:976:ARG:HB2	20:R1:149:ARG:CB	2.29	0.45
11:I1:1051:LYS:N	17:O1:290:TYR:CD2	2.77	0.45
11:I1:1603:ARG:O	11:I2:1738:TYR:C	2.58	0.45
11:I2:950:LEU:HD13	16:N3:410:MET:HE3	1.96	0.45
11:I2:977:ASN:O	20:R3:148:ALA:HA	2.12	0.45
11:I2:1046:HIS:O	17:O3:284:LYS:HA	2.13	0.45
11:I2:1048:GLU:C	17:O3:287:LEU:CB	2.63	0.45
11:I2:1048:GLU:HG2	17:O3:288:GLU:OE2	2.15	0.45
11:I2:1061:ASP:OD2	17:O3:278:GLU:HB2	2.16	0.45
11:I2:1065:SER:CA	17:O3:274:GLY:O	2.64	0.45
11:I3:1426:SER:CB	12:J3:263:MET:SD	3.04	0.45
11:I4:1370:VAL:CG2	12:J4:259:THR:HG21	2.41	0.45
11:I5:1426:SER:CB	12:J5:263:MET:SD	3.04	0.45
17:O1:90:HIS:N	17:O1:91:PRO:CD	2.79	0.45
19:Q2:192:GLN:HG2	19:Q2:232:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Q4:192:GLN:HG2	19:Q4:232:PHE:CD2	2.51	0.45
21:S1:1001:PHE:HB2	21:S1:1057:TYR:CE1	2.51	0.45
21:S1:1052:LEU:C	21:S1:1055:LEU:HD23	2.41	0.45
21:S1:1127:GLN:C	21:S1:1129:ASP:N	2.74	0.45
21:S3:948:LYS:HE3	21:S3:948:LYS:HB2	1.72	0.45
21:S3:1027:THR:OG1	21:S3:1029:PRO:HD2	2.16	0.45
21:S3:1119:LEU:N	21:S3:1120:PRO:CD	2.79	0.45
21:S4:449:ASP:HB2	21:S4:467:ASN:ND2	2.31	0.45
21:S4:682:ASN:HA	21:S4:684:THR:HA	1.98	0.45
21:S4:1073:ILE:HD12	21:S4:1073:ILE:C	2.41	0.45
22:T2:902:GLN:O	22:T2:906:GLU:HG2	2.17	0.45
22:T3:902:GLN:O	22:T3:906:GLU:HG2	2.16	0.45
22:T3:917:ASP:OD1	22:T3:921:TYR:N	2.47	0.45
22:T4:911:LEU:HD23	22:T4:914:GLN:NE2	2.30	0.45
23:U1:140:PRO:HA	31:c1:501:GLU:H	1.11	0.45
23:U1:207:SER:O	23:U1:211:ILE:HG13	2.16	0.45
23:U2:17:ASP:HA	31:c4:480:CYS:HB2	1.36	0.45
23:U2:391:HIS:CE1	31:c4:477:GLU:CA	2.99	0.45
23:U2:404:VAL:HG22	31:c4:547:ASN:O	2.17	0.45
23:U2:407:VAL:HG23	31:c4:163:ASP:HB2	1.97	0.45
24:V1:304:VAL:HG13	24:V1:323:ILE:HG22	1.97	0.45
25:W2:9:ASN:HD22	25:W2:9:ASN:HA	1.47	0.45
25:W2:95:HIS:NE2	25:W2:138:PRO:HB3	2.31	0.45
25:W4:95:HIS:NE2	25:W4:138:PRO:HB3	2.31	0.45
26:X2:205:ILE:HD12	34:i:446:LYS:HG3	1.79	0.45
26:X2:333:GLU:N	34:i:475:ILE:O	2.48	0.45
26:X2:406:LEU:HB2	26:X2:407:PRO:HD3	1.98	0.45
26:X3:249:LEU:O	26:X3:253:VAL:HG23	2.15	0.45
28:Z1:555:LYS:HA	30:b1:212:PHE:HA	1.88	0.45
28:Z1:556:ASN:OD1	30:b1:202:VAL:HG21	2.17	0.45
28:Z2:401:THR:CG2	30:b2:253:SER:C	2.78	0.45
30:b3:156:VAL:HG21	30:b3:214:TRP:CH2	2.52	0.45
30:b3:191:GLN:OE1	30:b3:259:ARG:HD2	2.16	0.45
30:b4:191:GLN:OE1	30:b4:259:ARG:HD2	2.16	0.45
31:c2:382:GLN:CG	31:c2:406:ILE:HD12	2.45	0.45
31:c3:263:ASP:OD1	31:c3:400:PHE:HB3	2.15	0.45
32:g:315:LEU:HD12	32:g:315:LEU:C	2.41	0.45
2:A2:970:PHE:HB2	6:D1:202:GLN:NE2	2.31	0.45
2:A2:980:ARG:NE	6:D1:503:LEU:HB2	2.29	0.45
1:A3:1180:ARG:C	3:A6:642:ARG:NH2	2.72	0.45
1:A3:1192:GLN:O	3:A6:675:ALA:HB1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:241:VAL:HG11	2:A4:287:LYS:HB3	1.98	0.45
2:A4:622:GLY:HA2	3:A6:453:SER:HA	1.98	0.45
2:A4:721:ARG:H	3:A6:493:ALA:CA	1.89	0.45
2:A4:808:GLN:NE2	3:A6:328:TYR:CD2	2.84	0.45
2:A4:822:ILE:HG23	3:A6:526:ILE:HD13	1.68	0.45
2:A4:854:VAL:CG1	3:A6:171:HIS:CB	2.81	0.45
2:A4:860:GLU:CG	3:A6:135:PHE:HE2	2.27	0.45
2:A4:944:SER:OG	3:A6:200:VAL:HG21	2.15	0.45
2:A4:972:GLY:C	6:D3:205:LEU:CA	2.86	0.45
2:A4:975:GLU:O	6:D3:496:LEU:CB	2.63	0.45
3:A5:1054:SER:O	11:I5:37:GLU:CG	2.63	0.45
3:A6:790:ASP:OD1	3:A6:790:ASP:N	2.35	0.45
6:D3:646:LEU:HD22	6:D3:696:ILE:HD11	1.98	0.45
6:D6:422:CYS:SG	6:D6:423:PHE:N	2.88	0.45
6:D7:646:LEU:HD22	6:D7:696:ILE:HD11	1.98	0.45
8:F1:332:VAL:O	8:F1:336:ALA:N	2.48	0.45
8:F1:1133:ARG:NH2	8:F1:1194:ASP:OD1	2.49	0.45
8:F1:1202:TYR:CA	17:O2:252:VAL:HG22	2.44	0.45
8:F2:1571:VAL:O	8:F2:1574:ILE:HG13	2.16	0.45
11:I1:1018:LYS:H	16:N1:412:ASN:HB3	1.81	0.45
11:I1:1607:GLN:CD	11:I2:1739:GLU:N	2.62	0.45
11:I2:879:VAL:HG12	17:O3:247:TRP:HB3	1.96	0.45
11:I2:936:LYS:HA	15:M3:609:GLY:C	2.39	0.45
11:I2:994:ALA:O	17:O3:267:ALA:CB	2.53	0.45
11:I2:1016:ARG:CA	16:N3:408:MET:O	2.64	0.45
11:I4:702:GLN:OE1	11:I4:702:GLN:N	2.41	0.45
16:N2:284:PRO:HA	16:N2:287:VAL:HG12	1.98	0.45
17:O2:90:HIS:N	17:O2:91:PRO:CD	2.79	0.45
21:S2:1001:PHE:HB2	21:S2:1057:TYR:CE1	2.51	0.45
21:S2:1124:ASP:OD1	21:S2:1124:ASP:C	2.59	0.45
21:S4:1027:THR:OG1	21:S4:1029:PRO:HD2	2.16	0.45
22:T1:917:ASP:OD1	22:T1:921:TYR:N	2.47	0.45
22:T2:777:ILE:O	22:T2:780:PRO:HG3	2.15	0.45
23:U1:144:TRP:CH2	23:U1:158:LEU:HA	2.51	0.45
23:U1:201:LYS:N	31:c1:624:GLU:CD	2.71	0.45
23:U2:49:LEU:HG	31:c4:470:ARG:HG2	1.71	0.45
24:V2:304:VAL:HG13	24:V2:323:ILE:HG22	1.97	0.45
24:V4:178:THR:HG22	24:V4:180:LEU:H	1.81	0.45
25:W1:16:VAL:HG21	25:W1:59:VAL:O	2.16	0.45
25:W1:116:LEU:O	25:W1:127:VAL:HA	2.16	0.45
25:W3:95:HIS:NE2	25:W3:138:PRO:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:97:ARG:HB3	26:X2:97:ARG:NH1	2.32	0.45
26:X2:226:GLN:O	26:X2:230:VAL:HG23	2.15	0.45
26:X2:283:ASP:HB3	34:i:479:THR:HG22	0.46	0.45
26:X2:304:ARG:CG	34:i:317:LEU:HG	2.45	0.45
26:X2:360:PHE:HB2	34:i:423:LYS:CE	2.46	0.45
26:X3:153:ASN:HA	26:X3:156:GLU:OE1	2.16	0.45
26:X3:268:SER:O	26:X3:272:PRO:HG2	2.16	0.45
26:X4:268:SER:O	26:X4:272:PRO:HG2	2.16	0.45
28:Z1:561:GLN:CG	30:b1:237:LEU:H	2.28	0.45
28:Z3:406:ARG:HG3	30:b3:252:ALA:HB2	1.88	0.45
28:Z4:436:HIS:NE2	28:Z4:438:GLU:HB2	2.31	0.45
28:Z4:524:VAL:HG13	30:b4:236:THR:C	2.30	0.45
33:h:156:VAL:HG22	33:h:165:CYS:SG	2.56	0.45
1:A1:1229:VAL:CG2	2:A2:725:GLU:HG3	2.42	0.45
2:A2:1137:ALA:CB	3:A5:564:ASN:ND2	2.76	0.45
2:A2:1155:ASN:HD21	5:C2:735:ILE:HG23	1.82	0.45
2:A2:1160:GLN:HA	3:A5:178:GLY:HA2	1.95	0.45
1:A3:1088:ASN:CA	6:D3:808:ASN:HB3	2.33	0.45
1:A3:1130:ARG:NH2	3:A6:650:GLY:O	0.60	0.45
1:A3:1184:ASP:H	3:A6:642:ARG:NH2	2.12	0.45
1:A3:1186:TRP:CZ3	3:A6:583:LEU:HD22	2.51	0.45
1:A3:1189:LEU:CD1	3:A6:641:ALA:CB	2.95	0.45
1:A3:1195:PHE:HA	3:A6:679:TYR:H	1.82	0.45
1:A3:1221:ILE:HD12	2:A4:614:ALA:O	2.15	0.45
1:A3:1234:GLN:CD	3:A6:610:THR:HG23	2.40	0.45
1:A3:1328:ARG:CG	3:A6:127:HIS:O	2.64	0.45
2:A4:540:GLN:OE1	3:A6:359:LEU:N	2.38	0.45
2:A4:683:LEU:C	3:A6:433:LYS:O	2.59	0.45
2:A4:691:LYS:HE3	3:A6:332:ASN:HA	1.99	0.45
2:A4:715:GLU:HG3	3:A6:515:THR:O	2.15	0.45
2:A4:753:GLU:C	3:A6:540:GLN:HE21	2.23	0.45
2:A4:946:LYS:CG	4:B6:350:GLU:OE2	2.64	0.45
3:A5:160:ILE:O	5:C2:744:PHE:CG	2.65	0.45
3:A5:1027:HIS:CD2	11:I5:65:LYS:C	2.62	0.45
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CA	2.47	0.45
3:A6:1398:LYS:CD	28:Z4:921:THR:H	2.21	0.45
6:D1:781:ARG:NH1	6:D1:784:GLN:OE1	2.49	0.45
6:D3:226:MET:HE1	6:D3:464:GLN:HG2	1.98	0.45
6:D4:226:MET:HE1	6:D4:464:GLN:HG2	1.98	0.45
8:F1:1203:TRP:CH2	17:O2:248:SER:C	2.82	0.45
8:F1:1264:ARG:CB	17:O2:262:ASP:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1832:ASN:OD1	8:F1:1833:ARG:HG3	2.16	0.45
11:I1:936:LYS:CE	15:M1:612:PRO:HG3	2.46	0.45
11:I1:940:LEU:HB3	17:O1:262:ASP:HB2	0.91	0.45
11:I1:951:LYS:O	16:N1:403:VAL:N	2.42	0.45
11:I1:1051:LYS:CD	17:O1:289:ASP:H	2.21	0.45
11:I1:1109:LEU:HA	16:N1:442:GLU:H	1.81	0.45
11:I1:1639:LEU:HD22	11:I2:1670:GLY:CA	2.45	0.45
11:I1:1659:VAL:O	11:I2:1663:LYS:CE	2.58	0.45
11:I1:1668:HIS:N	11:I2:1665:LEU:HA	2.31	0.45
11:I2:1033:PRO:HG3	20:R3:177:LEU:HD13	1.89	0.45
11:I2:1036:PRO:HB3	15:M3:623:LEU:HD12	1.31	0.45
11:I3:1182:GLN:CG	12:J3:245:GLU:OE2	2.51	0.45
11:I5:1276:GLN:NE2	26:X2:522:MET:C	2.61	0.45
17:O4:108:VAL:N	17:O4:109:PRO:CD	2.79	0.45
21:S3:1001:PHE:HB2	21:S3:1057:TYR:CE1	2.51	0.45
22:T1:887:LYS:HB3	22:T1:890:LEU:HD12	1.98	0.45
23:U1:24:ILE:O	31:c2:601:ARG:CZ	2.64	0.45
23:U2:14:LYS:O	31:c4:478:SER:HB2	2.16	0.45
23:U2:392:LEU:HD22	31:c4:552:ARG:HD3	1.69	0.45
23:U2:408:ASP:OD2	31:c4:544:VAL:HG22	2.16	0.45
23:U2:433:ALA:O	31:c4:540:HIS:CE1	2.57	0.45
23:U4:219:LEU:HD22	23:U4:227:ILE:HG12	1.98	0.45
24:V1:287:ASN:O	31:c1:11:TYR:OH	2.33	0.45
24:V1:335:ASP:C	31:c1:626:ILE:HA	2.42	0.45
26:X2:141:ASN:C	26:X2:145:ASN:ND2	2.74	0.45
26:X2:141:ASN:C	26:X2:145:ASN:HD22	2.24	0.45
26:X2:192:LEU:CG	34:i:443:THR:HG22	2.23	0.45
26:X2:208:LEU:HD22	34:i:445:GLN:CG	2.47	0.45
26:X2:294:GLN:CG	34:i:415:SER:O	2.65	0.45
26:X2:302:THR:O	34:i:416:VAL:HG21	2.16	0.45
26:X2:317:PHE:N	34:i:400:LYS:HZ1	2.15	0.45
26:X3:97:ARG:HB3	26:X3:97:ARG:NH1	2.32	0.45
27:Y2:208:LEU:HD11	27:Y2:231:ILE:CD1	2.46	0.45
28:Z1:130:THR:O	28:Z1:150:PHE:HA	2.17	0.45
28:Z1:521:SER:O	30:b1:238:ASN:CB	2.65	0.45
28:Z2:130:THR:O	28:Z2:150:PHE:HA	2.17	0.45
30:b1:11:PRO:HB2	30:b1:14:VAL:CG2	2.47	0.45
30:b2:11:PRO:HB2	30:b2:14:VAL:CG2	2.47	0.45
30:b3:322:HIS:HA	30:b3:323:PRO:HD3	1.84	0.45
30:b4:277:TRP:CZ2	30:b4:309:GLY:HA3	2.51	0.45
31:c2:439:TRP:CB	31:c2:517:LEU:HD13	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1392:ARG:CD	2:A2:891:GLY:HA3	2.47	0.45
2:A2:241:VAL:HG11	2:A2:287:LYS:HB3	1.98	0.45
2:A2:942:ASN:ND2	3:A5:597:GLU:OE1	2.50	0.45
2:A2:1152:ASP:O	3:A5:175:GLU:O	2.34	0.45
2:A2:1289:HIS:CE1	2:A2:1329:GLU:HG3	2.51	0.45
1:A3:1163:TYR:CA	3:A6:647:GLU:HB2	2.38	0.45
1:A3:1233:GLN:OE1	3:A6:575:LEU:HD13	2.15	0.45
2:A4:545:GLY:N	3:A6:365:MET:N	2.65	0.45
2:A4:602:ILE:CG1	3:A6:506:SER:HG	2.22	0.45
2:A4:679:TYR:OH	3:A6:109:ASP:CB	2.64	0.45
2:A4:717:VAL:HB	3:A6:492:SER:C	2.39	0.45
2:A4:726:ALA:HB1	3:A6:575:LEU:HD13	1.97	0.45
2:A4:765:GLU:C	3:A6:559:PHE:CE1	2.94	0.45
2:A4:772:SER:N	3:A6:477:PHE:CB	2.46	0.45
2:A4:806:PHE:HB3	3:A6:470:ARG:CA	2.46	0.45
2:A4:892:SER:C	3:A6:155:TYR:HE2	2.24	0.45
2:A4:894:THR:CA	3:A6:166:LEU:HB2	2.44	0.45
2:A4:895:PRO:HB2	3:A6:179:TYR:CG	2.42	0.45
2:A4:1023:ILE:CG2	2:A4:1025:SER:HB3	2.47	0.45
2:A4:1289:HIS:CE1	2:A4:1329:GLU:HG3	2.51	0.45
3:A5:919:LEU:CB	11:I5:61:LYS:NZ	2.78	0.45
3:A5:1151:THR:CA	5:C5:733:LEU:HD13	2.40	0.45
3:A6:1369:ILE:C	28:Z4:874:ASN:CB	2.80	0.45
5:C1:732:LYS:HE2	11:I1:1228:GLU:OE1	2.16	0.45
6:D3:781:ARG:NH1	6:D3:784:GLN:OE1	2.49	0.45
8:F1:1267:ARG:N	17:O2:265:ASN:HB3	2.31	0.45
9:G1:254:ASN:ND2	15:M2:606:LEU:CA	2.51	0.45
11:I1:948:ALA:H	17:O1:256:TYR:CB	2.28	0.45
11:I1:963:LEU:HD23	20:R1:168:LEU:HD11	1.98	0.45
11:I1:1361:ALA:O	11:I1:1365:ALA:N	2.50	0.45
11:I1:1669:ARG:NH1	11:I2:1642:LEU:CD1	2.25	0.45
11:I1:1669:ARG:C	11:I2:1664:PHE:HZ	2.19	0.45
11:I2:923:GLY:H	15:M3:592:LEU:N	2.11	0.45
11:I2:930:LEU:HB3	15:M3:597:LYS:O	2.16	0.45
11:I2:1020:ALA:CA	16:N3:410:MET:N	2.64	0.45
11:I2:1041:GLN:H	15:M3:620:VAL:HG23	1.82	0.45
11:I2:1050:SER:N	17:O3:291:ASP:HB2	2.32	0.45
11:I3:1584:LEU:HD21	12:J3:275:PHE:CE1	2.51	0.45
11:I4:504:ALA:CB	11:I4:508:LEU:HD23	2.46	0.45
11:I5:1584:LEU:HD21	12:J5:275:PHE:CE1	2.51	0.45
17:O3:147:ALA:O	18:P3:328:PRO:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Q3:192:GLN:HG2	19:Q3:232:PHE:CD2	2.51	0.45
21:S1:619:GLY:HA2	21:S1:620:LEU:CB	2.47	0.45
21:S1:1073:ILE:HD12	21:S1:1073:ILE:C	2.41	0.45
21:S1:1124:ASP:OD1	21:S1:1124:ASP:C	2.59	0.45
21:S2:176:MET:CE	21:S2:232:LEU:HD12	2.42	0.45
21:S2:352:LEU:O	21:S2:374:THR:HA	2.15	0.45
21:S2:975:LYS:HD3	22:T2:882:SER:HB2	1.98	0.45
21:S3:699:ILE:C	21:S3:701:GLU:H	2.24	0.45
22:T1:826:GLY:N	31:c5:23:ARG:NH2	2.47	0.45
22:T1:885:ARG:CG	22:T1:885:ARG:NH1	2.73	0.45
23:U1:38:ILE:CG1	31:c2:473:THR:C	2.87	0.45
23:U2:82:LEU:HD22	31:c4:550:LYS:HZ3	1.79	0.45
23:U2:82:LEU:HB3	31:c4:557:HIS:HD2	1.80	0.45
23:U2:404:VAL:HA	31:c4:547:ASN:HB3	1.98	0.45
23:U2:426:TYR:O	31:c4:463:HIS:HA	2.16	0.45
24:V2:173:ILE:HD11	25:W2:43:HIS:HD2	1.82	0.45
25:W2:191:ALA:C	25:W2:193:THR:H	2.23	0.45
26:X1:97:ARG:NH2	26:X1:411:SER:O	2.50	0.45
26:X1:522:MET:HE1	26:X1:538:ILE:HD12	1.98	0.45
26:X2:153:ASN:HA	26:X2:156:GLU:OE1	2.16	0.45
26:X2:294:GLN:HG2	34:i:415:SER:HB2	1.83	0.45
26:X2:304:ARG:NH1	34:i:325:VAL:N	2.47	0.45
26:X4:141:ASN:C	26:X4:145:ASN:ND2	2.74	0.45
27:Y3:79:LYS:HG2	27:Y3:109:GLY:C	2.41	0.45
27:Y4:119:ALA:C	27:Y4:121:LEU:H	2.25	0.45
28:Z1:623:LEU:HD23	28:Z1:623:LEU:HA	1.74	0.45
28:Z2:556:ASN:N	30:b2:212:PHE:CB	2.73	0.45
28:Z2:558:LEU:O	30:b2:234:LEU:O	2.29	0.45
28:Z3:130:THR:O	28:Z3:150:PHE:HA	2.16	0.45
28:Z3:551:THR:HG22	30:b3:233:TRP:HZ3	0.63	0.45
28:Z4:490:VAL:HG22	28:Z4:590:GLN:HG3	1.98	0.45
28:Z4:534:ASP:N	30:b4:164:CYS:HB2	2.23	0.45
28:Z4:551:THR:HG22	30:b4:233:TRP:HZ3	0.63	0.45
1:A1:874:VAL:HG13	6:D3:272:VAL:CB	2.37	0.45
2:A2:200:VAL:HG23	4:B2:351:GLU:O	2.11	0.45
2:A2:235:TYR:CD1	4:B2:347:LEU:CB	2.76	0.45
2:A2:705:ILE:N	2:A2:706:PRO:HD2	2.32	0.45
2:A2:870:HIS:NE2	6:D1:551:PHE:CA	2.77	0.45
2:A2:874:VAL:HG23	6:D1:571:SER:HB2	1.51	0.45
1:A3:1114:ILE:HA	3:A6:590:SER:CB	2.46	0.45
1:A3:1226:LEU:CB	3:A6:551:GLN:CG	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1251:VAL:N	3:A6:633:MET:HB3	2.30	0.45
1:A3:1282:PHE:CE1	3:A6:622:GLY:O	2.70	0.45
2:A4:83:GLN:C	3:A6:324:ARG:NH1	2.75	0.45
2:A4:84:VAL:HB	3:A6:384:ILE:HG21	1.99	0.45
2:A4:768:SER:N	3:A6:477:PHE:CD2	2.38	0.45
2:A4:801:THR:HA	3:A6:379:VAL:O	2.16	0.45
2:A4:973:GLU:O	6:D3:499:LEU:HD11	2.16	0.45
3:A5:186:ILE:C	5:C2:745:SER:CB	2.90	0.45
3:A5:996:ASN:HD21	11:I5:58:ALA:CB	2.14	0.45
3:A5:1312:ARG:CZ	28:Z2:832:PHE:O	2.61	0.45
3:A6:446:LEU:CD2	6:D3:721:PRO:HB3	2.47	0.45
3:A6:1391:ARG:CG	28:Z4:908:LEU:O	2.59	0.45
3:A6:1392:ARG:HB2	28:Z4:910:GLN:CA	2.44	0.45
6:D3:436:THR:HG23	6:D3:439:GLN:H	1.82	0.45
6:D5:482:MET:SD	6:D5:482:MET:N	2.90	0.45
6:D6:226:MET:HE1	6:D6:464:GLN:HG2	1.98	0.45
8:F2:173:THR:O	8:F2:177:ARG:NH1	2.50	0.45
11:I1:843:GLU:CD	15:M1:587:GLU:OE1	2.60	0.45
11:I1:956:ILE:HG23	20:R1:166:LEU:CD2	2.46	0.45
11:I1:965:ALA:HB3	20:R1:164:PRO:CA	2.47	0.45
11:I1:1061:ASP:N	17:O1:279:ILE:CD1	2.80	0.45
11:I1:1605:LEU:HB2	11:I2:1669:ARG:HE	1.72	0.45
11:I1:1677:LYS:CD	11:I2:1635:HIS:CE1	2.75	0.45
11:I2:846:ILE:CG2	15:M3:591:ASP:OD1	2.62	0.45
11:I2:944:GLU:HG2	17:O3:256:TYR:HE1	1.81	0.45
11:I2:965:ALA:N	20:R3:165:SER:OG	2.49	0.45
11:I2:984:GLU:CD	15:M3:615:PRO:CA	2.71	0.45
11:I2:1044:GLY:N	15:M3:616:LEU:HD13	2.25	0.45
11:I2:1186:PRO:CB	17:O4:225:GLN:NE2	2.67	0.45
11:I5:1116:ASP:OD2	12:J5:241:THR:HG21	2.17	0.45
11:I5:1276:GLN:O	26:X2:518:ASP:N	2.30	0.45
11:I5:1314:LEU:O	11:I5:1314:LEU:HD23	2.17	0.45
16:N1:284:PRO:HA	16:N1:287:VAL:HG12	1.98	0.45
16:N3:284:PRO:HA	16:N3:287:VAL:HG12	1.98	0.45
17:O1:104:ASP:OD2	18:P1:322:LYS:CD	2.64	0.45
21:S1:652:VAL:CA	21:S2:1156:ILE:C	2.88	0.45
21:S1:1143:VAL:HA	21:S1:1146:ALA:CB	2.41	0.45
21:S2:1027:THR:OG1	21:S2:1029:PRO:HD2	2.16	0.45
21:S2:1119:LEU:C	21:S2:1121:GLU:N	2.71	0.45
21:S3:184:ILE:CD1	21:S3:201:VAL:HG23	2.46	0.45
21:S3:352:LEU:O	21:S3:374:THR:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:934:HIS:C	21:S3:934:HIS:CD2	2.94	0.45
23:U2:15:PHE:O	31:c4:479:ILE:O	2.34	0.45
23:U2:403:SER:CA	31:c4:551:LEU:HD21	2.45	0.45
23:U3:207:SER:O	23:U3:211:ILE:HG13	2.16	0.45
23:U3:219:LEU:HD22	23:U3:227:ILE:HG12	1.98	0.45
23:U4:159:ASP:OD2	24:V4:319:LEU:HB2	2.16	0.45
23:U4:431:ILE:H	23:U4:431:ILE:CD1	2.28	0.45
24:V4:360:LYS:HG3	24:V4:366:PRO:HA	1.97	0.45
25:W4:18:ASP:OD1	25:W4:18:ASP:N	2.46	0.45
26:X1:97:ARG:HB3	26:X1:97:ARG:NH1	2.32	0.45
26:X2:208:LEU:HD22	34:i:444:GLU:C	2.02	0.45
26:X2:268:SER:O	26:X2:272:PRO:HG2	2.16	0.45
26:X2:308:ASN:HB2	34:i:315:LEU:HD23	1.96	0.45
27:Y2:124:LYS:HG3	27:Y2:138:ASP:OD1	2.17	0.45
28:Z1:402:GLY:HA2	30:b1:254:SER:OG	1.98	0.45
28:Z2:523:ASP:OD1	30:b2:239:THR:OG1	2.32	0.45
28:Z2:551:THR:HG22	30:b2:233:TRP:HZ3	0.63	0.45
28:Z2:623:LEU:HD23	28:Z2:623:LEU:HA	1.74	0.45
28:Z3:438:GLU:HB3	30:b3:314:PRO:HD2	1.93	0.45
28:Z3:438:GLU:CB	30:b3:333:HIS:CE1	2.99	0.45
28:Z4:402:GLY:HA2	30:b4:254:SER:OG	1.98	0.45
28:Z4:561:GLN:HG2	30:b4:235:LEU:CB	2.34	0.45
30:b1:156:VAL:HG21	30:b1:214:TRP:CH2	2.52	0.45
30:b2:170:ARG:HD3	30:b2:214:TRP:CZ3	2.51	0.45
30:b3:279:ARG:NH1	30:b3:327:ASP:OD1	2.43	0.45
30:b4:53:SER:O	30:b4:384:ARG:HD3	2.17	0.45
31:c3:158:LEU:HD23	31:c3:158:LEU:C	2.41	0.45
31:c5:468:THR:HG21	31:c5:478:SER:HB2	1.98	0.45
1:A1:1399:ARG:HB3	2:A2:884:ARG:HB3	1.99	0.45
2:A2:782:VAL:CA	6:D1:677:GLN:HA	2.46	0.45
2:A2:871:ASN:CA	6:D1:567:LEU:O	2.60	0.45
2:A2:1290:ALA:CB	2:A2:1349:ALA:HB3	2.46	0.45
1:A3:861:GLN:HB2	1:A3:882:SER:HB3	1.99	0.45
1:A3:1088:ASN:CA	6:D3:808:ASN:CG	2.80	0.45
1:A3:1192:GLN:CA	3:A6:645:PHE:HE2	2.29	0.45
1:A3:1278:PRO:HB3	3:A6:622:GLY:C	2.42	0.45
2:A4:87:GLN:H	3:A6:392:LEU:CA	2.29	0.45
2:A4:713:ILE:HA	3:A6:436:PRO:HD3	1.98	0.45
2:A4:761:GLN:CG	3:A6:545:GLY:HA2	2.35	0.45
2:A4:763:LEU:HD11	3:A6:470:ARG:CD	2.46	0.45
2:A4:776:MET:CB	3:A6:519:LEU:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:877:ALA:H	6:D3:563:GLU:HB3	1.80	0.45
3:A5:222:ALA:CB	5:C2:739:MET:HE2	2.46	0.45
3:A5:861:GLN:HB2	3:A5:882:SER:HB3	1.99	0.45
3:A5:1364:GLN:HE21	28:Z2:843:LYS:CA	2.20	0.45
3:A6:1399:ARG:CZ	28:Z4:964:LEU:O	2.63	0.45
6:D1:382:ASN:OD1	6:D1:383:THR:N	2.50	0.45
6:D2:587:LEU:HD13	6:D2:631:LEU:HA	1.99	0.45
6:D3:743:HIS:NE2	11:I2:1528:ARG:CD	2.76	0.45
8:F1:1113:LYS:N	8:F1:1114:PRO:HD2	2.32	0.45
8:F1:1262:HIS:CB	17:O2:259:ASP:HA	2.42	0.45
8:F2:302:PRO:O	8:F2:355:ARG:NE	2.49	0.45
8:F2:1643:CYS:SG	8:F2:1644:ASP:N	2.90	0.45
11:I1:846:ILE:HA	17:O1:247:TRP:CH2	2.52	0.45
11:I1:849:LEU:CD1	17:O1:247:TRP:CG	2.98	0.45
11:I1:890:TYR:HA	17:O1:238:ALA:HB3	1.98	0.45
11:I1:917:TYR:OH	15:M1:590:LYS:HE3	2.16	0.45
11:I1:1021:ILE:CA	16:N1:406:HIS:CE1	2.92	0.45
11:I1:1046:HIS:HB3	17:O1:284:LYS:N	2.32	0.45
11:I1:1110:SER:HA	16:N1:438:LEU:CB	2.40	0.45
11:I2:1017:VAL:CG2	17:O3:260:LEU:HD21	2.25	0.45
11:I2:1041:GLN:O	17:O3:275:LEU:HD11	2.16	0.45
11:I2:1051:LYS:CD	17:O3:285:LYS:CD	2.90	0.45
11:I2:1066:LEU:HD23	16:N3:430:ARG:HD2	1.70	0.45
11:I3:777:SER:O	29:a2:40[A]:GLU:CG	2.65	0.45
11:I3:777:SER:HB3	29:a2:40[A]:GLU:HA	1.97	0.45
11:I3:1276:GLN:C	26:X1:522:MET:SD	3.00	0.45
11:I4:1314:LEU:O	11:I4:1314:LEU:HD23	2.17	0.45
17:O3:154:ARG:CG	18:P3:324:LEU:HD13	2.41	0.45
19:Q1:192:GLN:HG2	19:Q1:232:PHE:CD2	2.51	0.45
21:S1:666:THR:O	21:S2:1149:GLU:N	2.47	0.45
21:S1:1027:THR:OG1	21:S1:1029:PRO:HD2	2.16	0.45
21:S1:1149:GLU:C	21:S1:1151:TYR:H	2.24	0.45
21:S4:946:LEU:HD23	21:S4:946:LEU:HA	1.82	0.45
21:S4:1016:LYS:NZ	21:S4:1039:GLU:HG3	2.31	0.45
22:T1:819:ASN:HB3	31:c5:57:GLU:HG3	1.97	0.45
22:T3:917:ASP:HB2	22:T3:918:PRO:CD	2.47	0.45
22:T4:702:SER:HB3	22:T4:704:LYS:HE3	1.97	0.45
23:U1:284:SER:O	23:U1:288:ILE:HG12	2.16	0.45
23:U1:405:GLU:HA	31:c2:548:VAL:HG23	1.90	0.45
23:U1:406:GLU:HG3	31:c2:548:VAL:HG22	1.99	0.45
23:U2:23:LYS:CB	31:c4:484:LEU:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:116:LEU:O	23:U2:119:ILE:HB	2.17	0.45
23:U2:314:ILE:HD12	24:V2:309:LYS:HE3	1.98	0.45
23:U4:81:LEU:HD13	23:U4:85:ARG:NH2	2.32	0.45
23:U4:159:ASP:OD2	24:V4:319:LEU:N	2.29	0.45
24:V1:378:SER:HG	31:c1:30:PHE:HZ	1.54	0.45
24:V1:392:TYR:O	24:V1:394:GLN:N	2.44	0.45
24:V3:352:ASP:HB3	24:V3:355:ILE:HD13	1.98	0.45
24:V4:173:ILE:HD11	25:W4:43:HIS:HD2	1.82	0.45
25:W2:116:LEU:O	25:W2:127:VAL:HA	2.16	0.45
25:W4:116:LEU:O	25:W4:127:VAL:HA	2.16	0.45
26:X1:141:ASN:C	26:X1:145:ASN:HD22	2.24	0.45
26:X2:297:LYS:N	34:i:369:VAL:HG22	2.32	0.45
26:X2:369:GLU:HB2	34:i:438:LEU:HG	1.99	0.45
26:X3:97:ARG:NH2	26:X3:411:SER:O	2.50	0.45
26:X3:141:ASN:C	26:X3:145:ASN:ND2	2.74	0.45
26:X3:198:GLU:HG2	26:X3:300:SER:CB	2.47	0.45
26:X4:97:ARG:NH2	26:X4:411:SER:O	2.50	0.45
27:Y1:144:ASP:C	27:Y1:146:ARG:H	2.24	0.45
27:Y2:296:LEU:HD21	27:Y2:299:GLU:HG3	1.98	0.45
27:Y4:16:VAL:HG12	27:Y4:63:TRP:HD1	1.81	0.45
27:Y4:124:LYS:HG3	27:Y4:138:ASP:OD1	2.17	0.45
27:Y4:208:LEU:HD11	27:Y4:231:ILE:CD1	2.46	0.45
27:Y4:296:LEU:HD21	27:Y4:299:GLU:HG3	1.98	0.45
28:Z1:247:ASP:HB2	28:Z1:254:ILE:HG13	1.98	0.45
28:Z1:739:PHE:O	28:Z1:743:ASN:N	2.36	0.45
28:Z2:291:LEU:HA	28:Z2:292:PRO:HD3	1.76	0.45
28:Z2:400:LYS:O	30:b2:252:ALA:HB2	2.12	0.45
28:Z3:400:LYS:O	30:b3:252:ALA:HB2	2.12	0.45
28:Z3:438:GLU:OE1	30:b3:333:HIS:CG	2.69	0.45
28:Z4:438:GLU:OE1	30:b4:333:HIS:CG	2.69	0.45
29:a4:286:LEU:HD23	29:a4:286:LEU:C	2.42	0.45
30:b1:21:TRP:CZ2	30:b1:373:ALA:HB2	2.52	0.45
30:b1:216:LEU:HD12	30:b1:216:LEU:HA	1.78	0.45
30:b4:21:TRP:CZ2	30:b4:373:ALA:HB2	2.52	0.45
31:c2:468:THR:HG21	31:c2:478:SER:HB2	1.98	0.45
33:h:270:MET:HG3	33:h:290:PRO:HD2	1.99	0.45
38:l1:15:UNK:O	38:l1:19:UNK:N	2.50	0.45
2:A2:1132:PRO:HG3	3:A5:159:SER:O	2.17	0.45
2:A2:1134:GLU:O	3:A5:147:LEU:CD1	2.64	0.45
1:A3:1047:CYS:O	6:D3:812:VAL:CG1	2.64	0.45
1:A3:1201:ARG:C	2:A4:732:GLN:CA	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1268:ASP:CG	3:A6:553:ASP:O	2.59	0.45
2:A4:91:LEU:HD12	3:A6:104:PRO:HG3	1.93	0.45
2:A4:172:PRO:HB3	6:D3:781:ARG:NE	2.31	0.45
2:A4:761:GLN:HG3	3:A6:545:GLY:C	2.41	0.45
2:A4:798:LYS:CE	3:A6:264:GLU:CD	2.83	0.45
2:A4:828:ALA:O	2:A4:867:GLU:OE1	2.34	0.45
2:A4:1344:ALA:O	2:A4:1345:SER:HB2	2.16	0.45
3:A5:1092:ASN:CA	11:I5:33:THR:HG22	2.31	0.45
6:D3:482:MET:N	6:D3:482:MET:SD	2.90	0.45
6:D5:781:ARG:NH1	6:D5:784:GLN:OE1	2.49	0.45
6:D7:436:THR:HG23	6:D7:439:GLN:H	1.81	0.45
6:D7:482:MET:N	6:D7:482:MET:SD	2.90	0.45
8:F1:1091:SER:OG	17:O2:241:SER:CB	1.75	0.45
9:G1:270:ARG:HB2	16:N2:414:ALA:CA	2.47	0.45
11:I1:834:SER:HA	17:O1:236:ASP:O	2.17	0.45
11:I1:877:ILE:HD12	17:O1:251:ILE:O	2.15	0.45
11:I1:881:ILE:CD1	17:O1:253:LEU:HD11	2.42	0.45
11:I1:915:ALA:HB1	15:M1:585:LEU:HD12	1.98	0.45
11:I1:959:SER:OG	16:N1:395:GLU:HB2	2.16	0.45
11:I1:1067:PHE:CE1	16:N1:433:GLU:N	2.85	0.45
11:I1:1104:LEU:CD2	16:N1:437:VAL:HG23	2.47	0.45
11:I1:1187:SER:HB3	17:O2:221:ASP:HB2	1.99	0.45
11:I1:1663:LYS:HD3	11:I2:1662:ARG:HB2	1.99	0.45
11:I2:935:GLY:C	15:M3:609:GLY:CA	2.89	0.45
11:I3:504:ALA:CB	11:I3:508:LEU:HD23	2.46	0.45
11:I3:1282:PHE:CG	26:X1:520:GLU:HB3	2.28	0.45
21:S1:655:ASN:N	21:S2:1156:ILE:CA	2.76	0.45
21:S1:670:ILE:CB	21:S2:1149:GLU:CB	2.95	0.45
21:S1:699:ILE:C	21:S1:701:GLU:H	2.24	0.45
21:S1:975:LYS:HD3	22:T1:882:SER:HB2	1.98	0.45
21:S4:1119:LEU:N	21:S4:1120:PRO:CD	2.79	0.45
22:T2:885:ARG:HG3	22:T2:885:ARG:NH1	2.17	0.45
22:T2:887:LYS:HB3	22:T2:890:LEU:HD12	1.98	0.45
22:T2:891:VAL:O	22:T2:891:VAL:HG12	2.17	0.45
22:T3:887:LYS:HB3	22:T3:890:LEU:HD12	1.98	0.45
24:V1:352:ASP:HB3	24:V1:355:ILE:HD13	1.97	0.45
24:V3:178:THR:HG22	24:V3:180:LEU:H	1.81	0.45
26:X1:268:SER:O	26:X1:272:PRO:HG2	2.17	0.45
26:X2:159:ILE:HG12	26:X2:175:LEU:CB	2.39	0.45
26:X2:279:ALA:CA	34:i:15:GLN:HB2	2.46	0.45
26:X2:306:TRP:CE2	34:i:404:ARG:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:306:TRP:HE1	34:i:415:SER:CB	2.29	0.45
26:X2:365:ILE:CG2	34:i:323:ILE:HD11	2.32	0.45
26:X3:239:VAL:HB	26:X3:240:PHE:H	1.59	0.45
26:X4:159:ILE:HG12	26:X4:175:LEU:CB	2.39	0.45
27:Y1:208:LEU:HD11	27:Y1:231:ILE:CD1	2.46	0.45
28:Z2:522:ASN:OD1	30:b2:241:PRO:CG	2.40	0.45
28:Z2:556:ASN:OD1	30:b2:202:VAL:HG21	2.17	0.45
28:Z2:561:GLN:HG3	30:b2:237:LEU:N	2.31	0.45
28:Z3:247:ASP:HB2	28:Z3:254:ILE:HG13	1.98	0.45
28:Z3:556:ASN:OD1	30:b3:202:VAL:HG21	2.17	0.45
29:a1:286:LEU:HD23	29:a1:286:LEU:C	2.42	0.45
30:b3:11:PRO:HB2	30:b3:14:VAL:CG2	2.47	0.45
30:b3:21:TRP:CZ2	30:b3:373:ALA:HB2	2.52	0.45
30:b3:302:ASN:O	30:b3:303:LEU:HD23	2.17	0.45
30:b4:156:VAL:HG21	30:b4:214:TRP:CH2	2.52	0.45
30:b4:302:ASN:O	30:b4:303:LEU:HD23	2.17	0.45
31:c1:468:THR:HG21	31:c1:478:SER:HB2	1.98	0.45
31:c3:170:ARG:NH2	31:c3:173:GLU:OE1	2.50	0.45
31:c4:157:GLU:OE2	31:c4:161:ARG:NH1	2.49	0.45
1:A1:1083:SER:CB	6:D1:798:MET:HE2	2.45	0.45
2:A2:397:LEU:HD12	2:A2:468:GLY:HA3	1.98	0.45
2:A2:868:GLN:HB3	6:D1:570:VAL:HB	1.99	0.45
2:A2:868:GLN:CB	6:D1:598:ILE:CD1	2.87	0.45
2:A2:1125:LEU:HB2	3:A5:135:PHE:HB2	1.99	0.45
2:A2:1139:ILE:HG23	3:A5:134:VAL:HB	1.97	0.45
1:A3:1168:LEU:HG	3:A6:643:ALA:HB3	1.97	0.45
1:A3:1220:PRO:HD3	2:A4:646:ILE:HG22	1.05	0.45
1:A3:1311:ARG:HD2	3:A6:712:THR:HA	1.94	0.45
2:A4:553:ASP:O	3:A6:371:LEU:CD1	2.65	0.45
2:A4:730:THR:CB	3:A6:609:GLU:CG	2.78	0.45
2:A4:753:GLU:HG3	3:A6:93:ASP:O	2.05	0.45
2:A4:760:LEU:CD1	3:A6:98:LEU:HD22	2.46	0.45
2:A4:781:ARG:NH1	6:D3:674:TYR:CE1	2.83	0.45
2:A4:790:ASP:OD2	3:A6:188:ALA:N	2.47	0.45
2:A4:985:ALA:CB	6:D3:500:LYS:HA	2.43	0.45
3:A5:996:ASN:OD1	11:I5:53:THR:O	2.34	0.45
3:A6:1400:SER:CB	28:Z4:961:PHE:CB	2.94	0.45
6:D2:226:MET:HE1	6:D2:464:GLN:HG2	1.99	0.45
6:D2:382:ASN:OD1	6:D2:383:THR:N	2.50	0.45
6:D2:781:ARG:NH1	6:D2:784:GLN:OE1	2.49	0.45
6:D4:436:THR:HG23	6:D4:439:GLN:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:423:PHE:O	6:D6:424:ASP:C	2.60	0.45
8:F1:1643:CYS:SG	8:F1:1644:ASP:N	2.90	0.45
9:G1:254:ASN:O	15:M2:606:LEU:CA	2.58	0.45
11:I1:841:PHE:C	15:M1:588:MET:HA	2.39	0.45
11:I1:917:TYR:O	15:M1:588:MET:SD	2.75	0.45
11:I1:947:LEU:O	16:N1:404:GLU:HA	2.15	0.45
11:I1:1036:PRO:O	20:R1:173:LEU:HD21	2.12	0.45
11:I1:1607:GLN:OE1	11:I2:1739:GLU:N	2.40	0.45
11:I1:1607:GLN:CD	11:I2:1735:PHE:O	2.53	0.45
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HB2	2.31	0.45
11:I1:1669:ARG:CZ	11:I2:1642:LEU:HD13	2.28	0.45
11:I2:841:PHE:CB	15:M3:588:MET:HA	2.23	0.45
11:I2:849:LEU:HD22	17:O3:251:ILE:HD11	1.99	0.45
11:I2:918:SER:HB2	16:N3:385:MET:HG2	1.99	0.45
11:I2:976:ARG:HB3	20:R3:149:ARG:CB	2.39	0.45
11:I2:1104:LEU:CB	16:N3:432:TYR:O	2.64	0.45
11:I2:1314:LEU:O	11:I2:1314:LEU:HD23	2.17	0.45
11:I3:1116:ASP:OD2	12:J3:241:THR:HG21	2.17	0.45
21:S1:668:ILE:O	21:S2:1146:ALA:CB	2.60	0.45
21:S2:133:ILE:HG21	21:S2:133:ILE:HD13	1.69	0.45
22:T4:685:ARG:NH2	22:T4:716:PRO:HG2	2.32	0.45
23:U1:159:ASP:OD2	24:V1:319:LEU:N	2.29	0.45
23:U1:202:LEU:CB	31:c1:633:PHE:C	2.89	0.45
23:U1:399:ILE:CG1	31:c2:556:GLN:CD	2.68	0.45
23:U2:391:HIS:CG	31:c4:477:GLU:HG2	2.50	0.45
23:U4:157:ASP:OD1	23:U4:163:ARG:NH2	2.46	0.45
24:V1:339:LEU:HD22	31:c1:627:ASP:N	2.31	0.45
24:V2:392:TYR:O	24:V2:394:GLN:N	2.44	0.45
25:W2:273:GLY:C	25:W2:275:ASP:H	2.25	0.45
26:X4:186:ARG:HG3	26:X4:190:PHE:HB2	1.97	0.45
27:Y1:79:LYS:HG2	27:Y1:109:GLY:C	2.41	0.45
28:Z1:555:LYS:HE2	30:b1:216:LEU:CD2	2.11	0.45
28:Z2:521:SER:O	30:b2:238:ASN:CB	2.65	0.45
28:Z2:534:ASP:CB	30:b2:183:LEU:N	2.33	0.45
28:Z3:490:VAL:HG22	28:Z3:590:GLN:HG3	1.98	0.45
28:Z4:556:ASN:OD1	30:b4:202:VAL:HG21	2.17	0.45
31:c1:158:LEU:HD23	31:c1:158:LEU:C	2.42	0.45
32:g:61:ILE:HD13	32:g:87:LEU:HD23	1.99	0.45
2:A2:827:ILE:CG2	2:A2:863:GLN:HB2	2.47	0.45
2:A2:874:VAL:HG21	6:D1:611:LYS:HG2	1.85	0.45
2:A2:989:MSE:SE	6:D1:241:ALA:CB	3.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1040:PHE:CD1	2:A2:1040:PHE:C	2.95	0.45
2:A2:1119:ASP:HA	3:A5:132:ASP:OD2	2.17	0.45
2:A2:1131:ILE:CG2	3:A5:138:LEU:HG	2.41	0.45
2:A2:1135:ARG:H	3:A5:138:LEU:HD22	1.37	0.45
1:A3:1227:PRO:N	3:A6:551:GLN:CB	2.80	0.45
1:A3:1249:PHE:CZ	3:A6:637:THR:OG1	2.69	0.45
1:A3:1250:PRO:HD2	3:A6:637:THR:N	2.29	0.45
1:A3:1279:ILE:C	3:A6:625:LEU:CA	2.49	0.45
2:A4:199:PHE:CA	4:B4:353:LEU:HA	2.27	0.45
2:A4:691:LYS:CD	3:A6:316:ARG:CB	2.65	0.45
2:A4:702:SER:O	3:A6:399:ASP:CG	2.53	0.45
2:A4:825:ARG:NH1	2:A4:826:ASN:OD1	2.42	0.45
2:A4:877:ALA:C	6:D3:563:GLU:HA	2.32	0.45
2:A4:954:ILE:CB	4:B6:346:LEU:H	2.28	0.45
3:A5:1368:GLN:HB2	28:Z2:840:PHE:O	2.15	0.45
3:A5:1374:ALA:HA	28:Z2:814:THR:HA	1.71	0.45
3:A5:1392:ARG:HG3	28:Z2:867:LYS:N	2.32	0.45
6:D1:650:VAL:HB	6:D1:651:PRO:HD3	1.99	0.45
6:D3:382:ASN:OD1	6:D3:383:THR:N	2.50	0.45
6:D6:436:THR:HG23	6:D6:439:GLN:H	1.82	0.45
6:D6:781:ARG:NH1	6:D6:784:GLN:OE1	2.49	0.45
8:F2:1133:ARG:NH2	8:F2:1194:ASP:OD1	2.49	0.45
9:G2:257:THR:CG2	17:O4:253:LEU:O	2.65	0.45
11:I1:880:MET:HE1	17:O1:254:ARG:NH1	2.32	0.45
11:I1:931:VAL:HG21	15:M1:604:ASN:CG	2.25	0.45
11:I1:991:THR:CG2	15:M1:608:LYS:HG2	2.47	0.45
11:I1:1021:ILE:HG12	16:N1:406:HIS:CE1	2.51	0.45
11:I1:1059:PRO:C	17:O1:277:GLU:OE2	2.60	0.45
11:I1:1116:ASP:OD2	12:J1:241:THR:HG21	2.17	0.45
11:I1:1122:ASN:O	11:I1:1126:HIS:ND1	2.42	0.45
11:I1:1607:GLN:HB3	12:J2:298:PHE:CE1	2.52	0.45
11:I2:950:LEU:CD2	15:M3:606:LEU:CG	2.93	0.45
11:I2:995:SER:HB3	17:O3:267:ALA:O	2.17	0.45
11:I2:1029:LEU:N	20:R3:172:ASP:N	2.65	0.45
11:I2:1045:PHE:C	17:O3:280:GLU:CB	2.90	0.45
11:I2:1052:LEU:CG	16:N3:438:LEU:HD21	2.47	0.45
11:I2:1110:SER:OG	16:N3:438:LEU:CB	2.46	0.45
11:I3:1275:SER:OG	26:X1:508:LEU:HD11	2.15	0.45
17:O4:90:HIS:N	17:O4:91:PRO:CD	2.79	0.45
18:P2:320:GLN:HG3	18:P3:278:ASN:ND2	2.30	0.45
21:S2:1013:LEU:HD12	21:S2:1013:LEU:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1052:LEU:HA	21:S4:1055:LEU:HD23	1.98	0.45
22:T3:685:ARG:NH2	22:T3:716:PRO:HG2	2.32	0.45
22:T3:891:VAL:O	22:T3:891:VAL:HG12	2.17	0.45
22:T4:822:LEU:HD22	22:T4:886:HIS:CE1	2.52	0.45
23:U2:11:ARG:HA	31:c4:469:SER:OG	2.17	0.45
23:U2:207:SER:O	23:U2:211:ILE:HG13	2.16	0.45
23:U3:143:LYS:HG3	23:U3:144:TRP:N	2.32	0.45
24:V1:375:GLU:C	24:V1:377:GLU:H	2.24	0.45
24:V1:513:MET:HG2	24:V1:541:ALA:HB2	1.99	0.45
24:V2:513:MET:HG2	24:V2:541:ALA:HB2	1.99	0.45
25:W1:16:VAL:HG23	25:W1:59:VAL:HG23	1.98	0.45
25:W1:191:ALA:C	25:W1:193:THR:H	2.23	0.45
25:W3:116:LEU:O	25:W3:127:VAL:HA	2.16	0.45
25:W4:16:VAL:HG23	25:W4:59:VAL:HG23	1.98	0.45
26:X1:268:SER:HB2	26:X1:269:ASP:OD1	2.17	0.45
26:X2:192:LEU:HB3	34:i:439:GLN:CA	2.47	0.45
26:X3:406:LEU:HB2	26:X3:407:PRO:HD3	1.98	0.45
27:Y1:124:LYS:HG3	27:Y1:138:ASP:OD1	2.17	0.45
28:Z2:247:ASP:HB2	28:Z2:254:ILE:HG13	1.98	0.45
28:Z2:554:PHE:CE1	30:b2:233:TRP:O	2.67	0.45
28:Z3:177:PHE:CD1	28:Z3:183:LEU:HD22	2.51	0.45
28:Z3:527:SER:HA	30:b3:204:GLU:HB2	1.95	0.45
28:Z4:643:ASP:OD2	28:Z4:646:ILE:HG13	2.17	0.45
30:b1:243:VAL:O	30:b1:245:THR:OG1	2.34	0.45
30:b2:156:VAL:HG21	30:b2:214:TRP:CH2	2.51	0.45
30:b3:53:SER:O	30:b3:384:ARG:HD3	2.17	0.45
30:b4:170:ARG:HD3	30:b4:214:TRP:CZ3	2.51	0.45
30:b4:192:PHE:CE1	30:b4:200:LEU:HD22	2.52	0.45
31:c5:158:LEU:HD23	31:c5:158:LEU:C	2.42	0.45
34:i:67:GLU:OE2	34:i:82:ARG:NH2	2.49	0.45
34:i:430:SER:O	34:i:435:LYS:NZ	2.49	0.45
2:A2:226:PRO:CG	6:D1:707:ILE:C	2.90	0.45
2:A2:782:VAL:H	6:D1:676:ALA:CB	2.30	0.45
2:A2:948:ALA:O	2:A2:952:ARG:HG3	2.17	0.45
2:A2:1023:ILE:CG2	2:A2:1025:SER:HB3	2.47	0.45
2:A2:1135:ARG:HA	3:A5:147:LEU:HD21	1.98	0.45
1:A3:1124:ARG:NH1	3:A6:648:TYR:CG	2.85	0.45
1:A3:1231:VAL:C	3:A6:575:LEU:O	2.48	0.45
1:A3:1251:VAL:HG23	3:A6:633:MET:CG	2.47	0.45
1:A3:1279:ILE:N	3:A6:624:ASP:O	2.32	0.45
2:A4:556:PRO:HG3	3:A6:455:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:681:THR:CG2	3:A6:431:PHE:HD1	2.30	0.45
2:A4:683:LEU:HG	3:A6:510:TYR:CD2	2.51	0.45
2:A4:710:LEU:HD21	2:A4:802:TYR:HH	1.81	0.45
2:A4:715:GLU:CA	3:A6:514:GLY:C	2.70	0.45
2:A4:735:ALA:C	3:A6:92:ASP:CB	2.87	0.45
2:A4:867:GLU:OE2	6:D3:609:ILE:HG13	2.17	0.45
2:A4:947:LYS:HZ3	3:A6:220:VAL:N	2.14	0.45
2:A4:969:ASP:O	6:D3:192:TYR:CE1	2.64	0.45
2:A4:1155:ASN:HD21	5:C4:735:ILE:HG23	1.81	0.45
3:A5:1160:GLN:HE22	5:C5:740:ARG:HD2	1.76	0.45
3:A5:1376:LEU:HB2	28:Z2:810:ASP:O	2.17	0.45
3:A6:1368:GLN:HB2	28:Z4:875:LEU:O	2.17	0.45
3:A6:1368:GLN:CG	28:Z4:878:HIS:CB	2.93	0.45
3:A6:1389:SER:HA	28:Z4:910:GLN:H	1.08	0.45
6:D2:523:LEU:HD12	6:D2:523:LEU:C	2.42	0.45
6:D2:646:LEU:HD22	6:D2:696:ILE:HD11	1.98	0.45
6:D3:587:LEU:HD13	6:D3:631:LEU:HA	1.99	0.45
6:D4:382:ASN:OD1	6:D4:383:THR:N	2.50	0.45
6:D4:587:LEU:HD13	6:D4:631:LEU:HA	1.99	0.45
6:D4:781:ARG:NH1	6:D4:784:GLN:OE1	2.49	0.45
6:D5:650:VAL:HB	6:D5:651:PRO:HD3	1.99	0.45
6:D7:180:ASN:H	11:I3:52:ASP:HB2	1.45	0.45
6:D7:587:LEU:HD13	6:D7:631:LEU:HA	1.99	0.45
8:F1:535:ILE:CG1	8:F1:536:PRO:HD2	2.46	0.45
8:F2:1801:VAL:O	8:F2:1801:VAL:HG23	2.17	0.45
8:F2:1832:ASN:OD1	8:F2:1833:ARG:HG3	2.16	0.45
9:G2:254:ASN:C	17:O4:262:ASP:OD2	2.60	0.45
11:I1:850:ILE:HG23	15:M1:594:LYS:HG2	1.97	0.45
11:I1:876:ALA:HA	17:O1:248:SER:HA	1.99	0.45
11:I1:1052:LEU:N	17:O1:286:ILE:HG22	2.29	0.45
11:I2:790:LEU:CD2	17:O3:251:ILE:CD1	2.88	0.45
11:I2:955:LYS:HG3	16:N3:403:VAL:H	1.82	0.45
11:I2:1361:ALA:O	11:I2:1365:ALA:N	2.50	0.45
11:I3:1314:LEU:O	11:I3:1314:LEU:HD23	2.17	0.45
21:S1:626:SER:O	21:S1:627:PHE:C	2.60	0.45
21:S2:449:ASP:HB2	21:S2:467:ASN:ND2	2.31	0.45
21:S2:682:ASN:HA	21:S2:684:THR:HA	1.98	0.45
21:S2:1073:ILE:HD12	21:S2:1073:ILE:C	2.41	0.45
21:S3:619:GLY:HA2	21:S3:620:LEU:CB	2.47	0.45
21:S3:626:SER:O	21:S3:627:PHE:C	2.60	0.45
21:S3:1149:GLU:C	21:S3:1151:TYR:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:902:GLN:O	22:T1:906:GLU:HG2	2.17	0.45
22:T2:685:ARG:NH2	22:T2:716:PRO:HG2	2.32	0.45
22:T2:822:LEU:HD22	22:T2:886:HIS:CE1	2.52	0.45
22:T3:822:LEU:HD22	22:T3:886:HIS:CE1	2.52	0.45
22:T4:902:GLN:O	22:T4:906:GLU:HG2	2.17	0.45
23:U1:19:LEU:N	31:c2:470:ARG:CB	2.63	0.45
23:U1:142:SER:OG	31:c1:498:GLN:NE2	2.50	0.45
23:U2:42:PHE:HD1	31:c4:478:SER:CB	2.30	0.45
23:U3:222:VAL:O	24:V3:256:VAL:HG22	2.17	0.45
23:U4:314:ILE:HD12	24:V4:309:LYS:HE3	1.98	0.45
23:U4:433:ALA:O	23:U4:435:PHE:N	2.44	0.45
24:V2:187:ASP:OD1	24:V2:187:ASP:C	2.60	0.45
24:V4:391:CYS:O	24:V4:395:ILE:HD11	2.18	0.45
25:W1:257:LEU:HA	25:W1:273:GLY:HA2	1.98	0.45
26:X2:97:ARG:NH2	26:X2:411:SER:O	2.50	0.45
26:X2:193:ASP:C	34:i:439:GLN:OE1	2.60	0.45
26:X2:329:ARG:NE	34:i:476:LEU:HG	2.20	0.45
26:X4:198:GLU:HG2	26:X4:300:SER:CB	2.47	0.45
27:Y1:119:ALA:C	27:Y1:121:LEU:H	2.25	0.45
27:Y4:79:LYS:HG2	27:Y4:109:GLY:C	2.41	0.45
28:Z1:561:GLN:HB2	30:b1:235:LEU:CA	2.45	0.45
28:Z2:352:ILE:HD13	28:Z2:471:ILE:HG12	1.99	0.45
28:Z2:643:ASP:OD2	28:Z2:646:ILE:HG13	2.17	0.45
28:Z2:739:PHE:O	28:Z2:743:ASN:N	2.36	0.45
28:Z3:563:GLU:OE2	30:b3:303:LEU:HD23	2.17	0.45
28:Z4:551:THR:HB	30:b4:233:TRP:HH2	1.17	0.45
28:Z4:623:LEU:HD23	28:Z4:623:LEU:HA	1.74	0.45
29:a3:286:LEU:HD23	29:a3:286:LEU:C	2.42	0.45
30:b1:192:PHE:CE1	30:b1:200:LEU:HD22	2.52	0.45
30:b4:243:VAL:O	30:b4:245:THR:OG1	2.34	0.45
31:c1:170:ARG:NH2	31:c1:173:GLU:OE1	2.50	0.45
31:c2:170:ARG:NH2	31:c2:173:GLU:OE1	2.50	0.45
31:c4:158:LEU:HD23	31:c4:158:LEU:C	2.41	0.45
1:A1:870:HIS:H	6:D3:280:GLN:CA	2.30	0.44
1:A1:1018:ASP:OD1	6:D1:819:ASN:ND2	2.39	0.44
1:A3:773:PHE:CZ	1:A3:818:LEU:HD12	2.48	0.44
1:A3:1191:ASN:O	3:A6:615:LEU:CD2	2.61	0.44
2:A4:691:LYS:NZ	3:A6:330:LEU:CG	2.68	0.44
2:A4:737:PRO:C	3:A6:89:LEU:CD1	2.71	0.44
2:A4:813:GLU:OE2	3:A6:191:LEU:CA	2.64	0.44
2:A4:822:ILE:HG21	3:A6:526:ILE:HD12	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:896:ALA:N	3:A6:179:TYR:HB3	2.31	0.44
2:A4:952:ARG:H	4:B6:347:LEU:CD2	2.29	0.44
2:A4:1342:SER:OG	2:A4:1343:GLY:N	2.50	0.44
3:A5:199:PHE:HA	4:B5:353:LEU:HA	1.99	0.44
3:A5:1404:LEU:CD2	28:Z2:913:ILE:O	2.63	0.44
6:D1:423:PHE:O	6:D1:424:ASP:C	2.60	0.44
6:D7:483:GLU:HB2	11:I3:191:GLU:OE2	2.17	0.44
6:D7:781:ARG:NH1	6:D7:784:GLN:OE1	2.49	0.44
8:F1:173:THR:O	8:F1:177:ARG:NH1	2.50	0.44
8:F1:1202:TYR:CD1	17:O2:252:VAL:HG22	2.51	0.44
9:G1:270:ARG:HB2	16:N2:414:ALA:C	2.40	0.44
11:I1:833:PHE:HE1	17:O1:245:GLU:CD	2.25	0.44
11:I1:876:ALA:O	17:O1:248:SER:HA	2.17	0.44
11:I1:896:PRO:HD3	17:O1:233:THR:CA	2.36	0.44
11:I1:1019:LEU:HD13	16:N1:412:ASN:ND2	2.26	0.44
11:I1:1021:ILE:HG12	16:N1:410:MET:HB2	1.74	0.44
11:I2:130:LYS:NZ	11:I2:237:GLU:OE1	2.45	0.44
11:I2:953:LEU:CD1	15:M3:607:SER:H	2.30	0.44
11:I2:953:LEU:HD11	15:M3:606:LEU:N	2.33	0.44
11:I2:955:LYS:HB3	16:N3:400:LEU:HG	1.99	0.44
11:I2:1033:PRO:HD2	20:R3:177:LEU:HD23	1.65	0.44
11:I2:1042:LEU:CD2	15:M3:608:LYS:HB2	2.46	0.44
11:I2:1042:LEU:HD23	15:M3:616:LEU:HD23	1.29	0.44
11:I2:1045:PHE:CA	15:M3:619:ILE:CD1	2.93	0.44
11:I2:1071:LEU:HG	16:N3:429:GLU:HA	1.99	0.44
11:I4:1274:HIS:HB2	26:X3:524:SER:OG	2.14	0.44
17:O4:98:TYR:HD2	17:O4:125:ALA:HB2	1.83	0.44
21:S2:626:SER:O	21:S2:627:PHE:C	2.60	0.44
22:T2:837:LYS:HB2	31:c4:334:ILE:N	2.23	0.44
22:T4:828:TRP:O	22:T4:830:VAL:HG23	2.16	0.44
23:U1:23:LYS:CD	31:c2:479:ILE:CA	2.93	0.44
23:U2:26:GLN:CB	31:c4:491:VAL:CB	2.92	0.44
23:U2:144:TRP:CH2	23:U2:158:LEU:HA	2.51	0.44
23:U4:143:LYS:HG3	23:U4:144:TRP:N	2.32	0.44
24:V3:375:GLU:C	24:V3:377:GLU:H	2.24	0.44
24:V4:394:GLN:HG2	24:V4:397:GLU:HB2	2.00	0.44
25:W3:16:VAL:HG21	25:W3:59:VAL:O	2.16	0.44
26:X1:152:LEU:CD2	26:X1:182:LEU:HB3	2.43	0.44
26:X1:198:GLU:HG2	26:X1:300:SER:CB	2.47	0.44
26:X2:195:GLN:HB2	34:i:364:TYR:OH	2.05	0.44
26:X2:310:VAL:H	34:i:404:ARG:C	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:315:GLN:C	34:i:400:LYS:HE3	2.42	0.44
26:X4:453:ASP:OD1	26:X4:499:ALA:HB1	2.17	0.44
27:Y3:144:ASP:C	27:Y3:146:ARG:H	2.24	0.44
28:Z1:177:PHE:CD1	28:Z1:183:LEU:HD22	2.51	0.44
28:Z1:561:GLN:CG	30:b1:235:LEU:HD23	2.35	0.44
28:Z2:534:ASP:H	30:b2:164:CYS:HB3	1.77	0.44
28:Z3:556:ASN:N	30:b3:212:PHE:CB	2.73	0.44
28:Z3:643:ASP:OD2	28:Z3:646:ILE:HG13	2.17	0.44
28:Z4:218:SER:OG	28:Z4:219:ASP:N	2.50	0.44
28:Z4:561:GLN:HG3	30:b4:237:LEU:N	2.31	0.44
29:a4:16:THR:HG22	29:a4:34:THR:HG22	1.99	0.44
31:c3:157:GLU:OE2	31:c3:161:ARG:NH1	2.49	0.44
31:c4:170:ARG:NH2	31:c4:173:GLU:OE1	2.50	0.44
31:c5:157:GLU:OE2	31:c5:161:ARG:NH1	2.49	0.44
33:h:272:LEU:C	33:h:272:LEU:CD2	2.90	0.44
2:A2:828:ALA:O	2:A2:867:GLU:OE1	2.34	0.44
2:A2:1122:LEU:HD11	3:A5:135:PHE:CE2	2.50	0.44
2:A2:1129:PRO:N	3:A5:140:ALA:HB2	2.22	0.44
1:A3:1221:ILE:HG21	2:A4:641:ALA:O	2.16	0.44
1:A3:1277:TRP:HH2	3:A6:621:GLN:HB3	1.82	0.44
2:A4:615:LEU:HD21	3:A6:499:ILE:HD13	1.90	0.44
2:A4:713:ILE:CA	3:A6:436:PRO:HD3	2.48	0.44
2:A4:800:LEU:C	3:A6:316:ARG:HB3	2.42	0.44
2:A4:868:GLN:CD	6:D3:608:ILE:CD1	2.63	0.44
2:A4:878:LEU:N	6:D3:567:LEU:HD12	2.32	0.44
2:A4:981:PRO:HA	6:D3:496:LEU:HB3	1.99	0.44
2:A4:1347:SER:O	2:A4:1348:GLU:C	2.60	0.44
3:A5:222:ALA:HB2	5:C2:739:MET:CE	2.47	0.44
3:A6:446:LEU:CG	6:D3:721:PRO:CA	2.80	0.44
3:A6:773:PHE:CZ	3:A6:818:LEU:HD12	2.48	0.44
3:A6:1410:ALA:HB3	26:X4:685:GLU:C	2.41	0.44
6:D1:523:LEU:HD12	6:D1:523:LEU:C	2.42	0.44
6:D5:436:THR:HG23	6:D5:439:GLN:H	1.81	0.44
6:D5:523:LEU:HD12	6:D5:523:LEU:C	2.42	0.44
6:D6:482:MET:SD	6:D6:482:MET:N	2.90	0.44
6:D7:192:TYR:OH	6:D7:498:GLU:OE1	2.33	0.44
6:D7:523:LEU:HD12	6:D7:523:LEU:C	2.42	0.44
11:I1:896:PRO:N	17:O1:233:THR:N	2.56	0.44
11:I1:924:ILE:HD12	15:M1:599:ILE:HD12	1.99	0.44
11:I1:993:SER:HB2	16:N1:430:ARG:HH12	1.07	0.44
11:I1:1046:HIS:HB3	17:O1:283:ALA:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1032:THR:O	15:M3:627:LEU:HB2	2.16	0.44
11:I2:1061:ASP:HB2	17:O3:278:GLU:HB3	1.92	0.44
11:I2:1067:PHE:HD1	16:N3:430:ARG:CA	2.28	0.44
11:I2:1333:THR:N	11:I2:1334:PRO:CD	2.81	0.44
11:I3:777:SER:CB	29:a2:40[B]:GLU:CB	2.87	0.44
11:I3:1270:LYS:HB3	26:X1:531:LEU:N	2.26	0.44
11:I4:1361:ALA:O	11:I4:1365:ALA:N	2.50	0.44
11:I5:1333:THR:N	11:I5:1334:PRO:CD	2.80	0.44
17:O1:98:TYR:HD2	17:O1:125:ALA:HB2	1.83	0.44
17:O2:110:LEU:CG	18:P2:321:ILE:O	2.63	0.44
21:S2:946:LEU:HD11	22:T2:898:ARG:HG2	1.99	0.44
21:S3:1020:LEU:H	21:S3:1020:LEU:CD2	2.31	0.44
21:S4:382:MET:HB3	21:S4:382:MET:HE2	1.63	0.44
22:T1:744:ILE:O	31:c5:27:MET:SD	2.76	0.44
22:T4:675:ILE:HD13	22:T4:675:ILE:HA	1.87	0.44
23:U1:394:ILE:CG2	31:c2:475:ALA:CB	2.81	0.44
23:U2:362:SER:N	31:c4:545:PRO:HB3	2.31	0.44
24:V2:375:GLU:C	24:V2:377:GLU:H	2.24	0.44
24:V2:393:GLY:O	24:V2:394:GLN:HB2	2.17	0.44
24:V3:173:ILE:HD11	25:W3:43:HIS:HD2	1.82	0.44
25:W2:257:LEU:HA	25:W2:273:GLY:HA2	1.98	0.44
26:X2:198:GLU:HG2	26:X2:300:SER:CB	2.47	0.44
26:X2:305:GLU:HG3	34:i:325:VAL:HB	1.95	0.44
26:X2:336:LEU:CD2	34:i:478:PRO:HD3	2.23	0.44
27:Y2:79:LYS:HG2	27:Y2:109:GLY:C	2.41	0.44
28:Z1:555:LYS:HB2	30:b1:233:TRP:CD2	2.53	0.44
28:Z1:561:GLN:HG3	30:b1:237:LEU:N	2.31	0.44
28:Z4:247:ASP:O	28:Z4:251:PHE:N	2.47	0.44
28:Z4:410:ASN:N	30:b4:251:ILE:HD11	2.33	0.44
30:b2:21:TRP:CZ2	30:b2:373:ALA:HB2	2.52	0.44
30:b2:192:PHE:CE1	30:b2:200:LEU:HD22	2.52	0.44
31:c3:411:VAL:O	31:c3:411:VAL:HG22	2.18	0.44
31:c4:411:VAL:O	31:c4:411:VAL:HG22	2.18	0.44
33:h:183:GLU:HG2	33:h:194:LEU:HD22	2.00	0.44
1:A1:939:LYS:N	1:A1:940:PRO:HD3	2.32	0.44
1:A1:1224:PRO:CA	2:A2:731:ILE:HD13	2.46	0.44
2:A2:349:LYS:NZ	2:A2:352:GLU:OE1	2.49	0.44
1:A3:1278:PRO:HD2	3:A6:624:ASP:HB2	1.88	0.44
1:A3:1393:THR:HG1	3:A6:229:SER:N	1.99	0.44
2:A4:688:TRP:CZ3	3:A6:395:MET:SD	3.02	0.44
2:A4:701:ILE:CD1	3:A6:481:ARG:HB2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:892:SER:CA	3:A6:232:LEU:HB3	2.48	0.44
2:A4:898:LEU:N	3:A6:177:ILE:N	2.60	0.44
2:A4:977:VAL:CG1	6:D3:496:LEU:HD12	2.45	0.44
2:A4:1249:PHE:N	2:A4:1250:PRO:CD	2.80	0.44
3:A5:160:ILE:HD13	5:C2:743:LEU:HG	1.91	0.44
3:A5:1023:ILE:CG1	11:I5:55:ASP:OD1	2.65	0.44
3:A5:1026:PRO:N	11:I5:66:LEU:CG	2.76	0.44
3:A6:1398:LYS:N	28:Z4:917:ASP:N	2.64	0.44
6:D2:436:THR:HG23	6:D2:439:GLN:H	1.82	0.44
6:D4:523:LEU:HD12	6:D4:523:LEU:C	2.42	0.44
6:D7:382:ASN:OD1	6:D7:383:THR:N	2.50	0.44
8:F1:1801:VAL:O	8:F1:1801:VAL:HG23	2.17	0.44
11:I1:881:ILE:HD11	17:O1:253:LEU:HG	1.99	0.44
11:I1:911:PRO:HB2	15:M1:584:GLN:CD	2.42	0.44
11:I1:952:LEU:C	16:N1:400:LEU:CD2	2.55	0.44
11:I1:958:THR:CB	16:N1:399:HIS:HA	2.47	0.44
11:I1:981:VAL:HA	20:R1:147:LEU:HD21	1.54	0.44
11:I1:987:GLY:CA	15:M1:614:ASP:H	2.27	0.44
11:I1:1049:LEU:HD23	20:R1:146:LEU:HD21	1.93	0.44
11:I2:886:LEU:HB3	17:O3:242:ARG:CG	2.45	0.44
11:I2:950:LEU:HG	15:M3:606:LEU:CG	2.47	0.44
11:I2:953:LEU:CD1	15:M3:602:MET:O	2.65	0.44
11:I2:961:ARG:CZ	16:N3:388:LYS:O	2.52	0.44
11:I3:1361:ALA:O	11:I3:1365:ALA:N	2.50	0.44
11:I4:1274:HIS:HB2	26:X3:525:ILE:HG13	1.97	0.44
11:I5:1083:GLU:OE1	11:I5:1083:GLU:N	2.42	0.44
11:I5:1122:ASN:O	11:I5:1126:HIS:ND1	2.42	0.44
17:O1:156:ILE:CG2	17:O1:157:THR:N	2.81	0.44
21:S2:968:LYS:HB3	21:S2:968:LYS:HE2	1.65	0.44
21:S3:681:SER:O	21:S4:1145:LYS:O	2.36	0.44
22:T1:685:ARG:NH2	22:T1:716:PRO:HG2	2.32	0.44
22:T1:891:VAL:O	22:T1:891:VAL:HG12	2.17	0.44
23:U1:81:LEU:HD13	23:U1:85:ARG:NH2	2.32	0.44
23:U1:116:LEU:O	23:U1:119:ILE:HB	2.17	0.44
23:U1:142:SER:HB3	31:c1:631:LYS:NZ	2.32	0.44
23:U1:398:ILE:N	31:c2:552:ARG:CZ	2.62	0.44
23:U2:21:GLU:HG3	31:c4:482:LEU:CB	2.43	0.44
23:U2:437:ASN:HA	31:c4:428:ARG:NE	2.27	0.44
23:U3:81:LEU:HD13	23:U3:85:ARG:NH2	2.32	0.44
23:U4:109:LEU:HD23	23:U4:298:ILE:HG13	2.00	0.44
23:U4:116:LEU:O	23:U4:119:ILE:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:187:ASP:OD1	24:V4:187:ASP:C	2.60	0.44
24:V4:375:GLU:C	24:V4:377:GLU:H	2.24	0.44
26:X2:300:SER:CB	34:i:367:GLU:C	2.68	0.44
26:X2:303:PHE:CE2	34:i:421:ILE:HD11	2.41	0.44
26:X2:315:GLN:N	34:i:399:PRO:HB2	2.31	0.44
26:X3:453:ASP:OD1	26:X3:499:ALA:HB1	2.17	0.44
27:Y2:119:ALA:C	27:Y2:121:LEU:H	2.25	0.44
27:Y3:208:LEU:HD11	27:Y3:231:ILE:CD1	2.47	0.44
28:Z1:436:HIS:NE2	28:Z1:438:GLU:HB2	2.31	0.44
28:Z1:563:GLU:OE2	30:b1:303:LEU:HD23	2.18	0.44
28:Z2:563:GLU:OE2	30:b2:303:LEU:HD23	2.18	0.44
28:Z3:436:HIS:NE2	28:Z3:438:GLU:HB2	2.31	0.44
28:Z3:668:TYR:CZ	28:Z3:672:LYS:HE3	2.53	0.44
28:Z4:130:THR:O	28:Z4:150:PHE:HA	2.17	0.44
28:Z4:499:SER:O	28:Z4:500:GLU:C	2.60	0.44
28:Z4:531:LYS:CD	30:b4:183:LEU:CB	2.71	0.44
30:b1:302:ASN:O	30:b1:303:LEU:HD23	2.17	0.44
30:b2:302:ASN:O	30:b2:303:LEU:HD23	2.17	0.44
31:c2:285:MET:HE1	31:c2:346:MET:HE2	2.00	0.44
1:A1:1052:THR:HA	6:D1:812:VAL:HG11	1.98	0.44
2:A2:876:ARG:NH2	6:D1:558:LYS:HB3	2.33	0.44
2:A2:1132:PRO:HD3	3:A5:160:ILE:HA	1.99	0.44
2:A2:1347:SER:O	2:A2:1348:GLU:C	2.60	0.44
1:A3:1052:THR:CG2	6:D3:816:VAL:HG23	2.39	0.44
1:A3:1054:SER:N	6:D3:809:ALA:O	2.49	0.44
1:A3:1230:TYR:CG	2:A4:726:ALA:O	2.68	0.44
1:A3:1251:VAL:CA	3:A6:634:ASP:OD2	2.65	0.44
2:A4:669:LEU:HA	3:A6:542:LEU:HG	1.98	0.44
2:A4:675:ALA:CB	3:A6:508:LEU:CG	2.96	0.44
2:A4:710:LEU:C	3:A6:480:VAL:CG2	2.90	0.44
2:A4:733:GLY:HA2	3:A6:93:ASP:HA	1.06	0.44
2:A4:771:ILE:HD11	3:A6:476:PHE:CD2	2.30	0.44
2:A4:779:ASP:O	3:A6:522:GLY:CA	2.65	0.44
2:A4:795:GLN:CA	3:A6:249:SER:OG	2.64	0.44
2:A4:802:TYR:HD2	3:A6:380:ALA:N	2.15	0.44
2:A4:859:GLN:NE2	3:A6:134:VAL:HG22	2.31	0.44
2:A4:863:GLN:O	3:A6:136:GLU:HG2	2.17	0.44
2:A4:973:GLU:H	6:D3:205:LEU:H	1.49	0.44
2:A4:983:LEU:N	6:D3:528:PHE:CE2	2.85	0.44
2:A4:1290:ALA:CB	2:A4:1349:ALA:HB3	2.46	0.44
3:A5:1005:PHE:CZ	11:I5:67:LYS:HE3	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1053:ARG:HH11	11:I5:99:ARG:HG3	1.83	0.44
3:A5:1094:ILE:CD1	11:I5:34:LEU:HD22	2.47	0.44
3:A6:518:GLU:HB3	6:D3:686:ASP:HB3	1.20	0.44
6:D1:482:MET:N	6:D1:482:MET:SD	2.90	0.44
6:D2:423:PHE:O	6:D2:424:ASP:C	2.60	0.44
6:D2:482:MET:N	6:D2:482:MET:SD	2.90	0.44
6:D5:240:ASP:O	31:c3:470:ARG:NH2	2.48	0.44
6:D7:650:VAL:HB	6:D7:651:PRO:HD3	1.99	0.44
8:F1:982:PRO:CB	11:I1:1388:GLU:OE2	2.60	0.44
8:F2:1135:ARG:HD3	17:O4:252:VAL:HG13	1.19	0.44
11:I1:843:GLU:HB3	15:M1:587:GLU:CD	2.41	0.44
11:I1:949:CYS:SG	17:O1:254:ARG:O	2.75	0.44
11:I1:990:GLU:CB	17:O1:272:SER:HA	2.40	0.44
11:I1:1041:GLN:OE1	15:M1:620:VAL:HB	2.17	0.44
11:I1:1051:LYS:CA	17:O1:290:TYR:CD2	3.01	0.44
11:I1:1314:LEU:O	11:I1:1314:LEU:HD23	2.17	0.44
11:I2:880:MET:HE2	17:O3:247:TRP:CZ3	2.51	0.44
11:I2:884:LEU:HB2	11:I2:955:LYS:HZ1	1.82	0.44
11:I2:927:HIS:CA	15:M3:597:LYS:HB3	2.47	0.44
11:I2:1062:MET:N	17:O3:277:GLU:OE1	2.51	0.44
11:I2:1182:GLN:NE2	12:J2:245:GLU:CB	2.80	0.44
11:I2:1218:ASP:O	11:I2:1221:ASN:ND2	2.49	0.44
11:I3:1274:HIS:CA	26:X1:534:ILE:CG2	2.95	0.44
11:I3:1333:THR:N	11:I3:1334:PRO:CD	2.80	0.44
11:I4:819:MET:HE1	26:X3:502:MET:HG2	1.84	0.44
11:I4:1280:PRO:HD3	26:X3:520:GLU:CD	2.42	0.44
17:O2:110:LEU:HD11	18:P2:321:ILE:CB	2.31	0.44
21:S1:677:TYR:C	21:S2:1127:GLN:CA	2.86	0.44
21:S2:1127:GLN:C	21:S2:1129:ASP:N	2.74	0.44
21:S3:404:LEU:O	21:S3:405:CYS:HB2	2.18	0.44
21:S4:133:ILE:HG21	21:S4:133:ILE:HD13	1.69	0.44
21:S4:619:GLY:HA2	21:S4:620:LEU:CB	2.47	0.44
21:S4:1020:LEU:H	21:S4:1020:LEU:CD2	2.31	0.44
23:U1:398:ILE:O	31:c2:553:LEU:HD12	2.18	0.44
23:U2:18:THR:CA	31:c4:478:SER:O	2.64	0.44
23:U2:222:VAL:O	24:V2:256:VAL:HG22	2.18	0.44
23:U3:109:LEU:HD23	23:U3:298:ILE:HG13	2.00	0.44
23:U3:116:LEU:O	23:U3:119:ILE:HB	2.17	0.44
23:U3:278:GLN:CB	25:W4:187:TYR:HH	2.28	0.44
24:V1:187:ASP:OD1	24:V1:187:ASP:C	2.60	0.44
25:W4:52:HIS:CE1	25:W4:80:LEU:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:268:SER:HB2	26:X2:269:ASP:OD1	2.17	0.44
26:X2:297:LYS:HG2	34:i:446:LYS:CD	2.48	0.44
26:X2:358:CYS:HA	34:i:445:GLN:HE22	1.82	0.44
26:X3:202:SER:HA	26:X3:297:LYS:O	2.18	0.44
27:Y1:7:GLY:C	27:Y1:34:LYS:HE3	2.42	0.44
27:Y1:296:LEU:HD21	27:Y1:299:GLU:HG3	1.98	0.44
27:Y2:7:GLY:C	27:Y2:34:LYS:HE3	2.42	0.44
27:Y3:7:GLY:C	27:Y3:34:LYS:HE3	2.42	0.44
27:Y3:119:ALA:C	27:Y3:121:LEU:H	2.25	0.44
28:Z1:499:SER:O	28:Z1:500:GLU:C	2.60	0.44
28:Z2:218:SER:OG	28:Z2:219:ASP:N	2.50	0.44
28:Z2:297:LEU:HD23	28:Z2:297:LEU:HA	1.89	0.44
28:Z2:555:LYS:HB2	30:b2:233:TRP:CD2	2.53	0.44
28:Z2:561:GLN:CG	30:b2:237:LEU:H	2.29	0.44
29:a3:16:THR:HG22	29:a3:34:THR:HG22	1.99	0.44
30:b2:69:PRO:HD2	30:b2:107:GLN:HB2	2.00	0.44
31:c2:95:ASP:OD1	31:c2:95:ASP:N	2.48	0.44
32:g:145:LEU:HD23	32:g:145:LEU:N	2.29	0.44
1:A1:870:HIS:N	6:D3:280:GLN:CB	2.67	0.44
1:A1:874:VAL:HG21	6:D3:272:VAL:CA	2.45	0.44
2:A2:520:GLU:OE1	2:A2:521:ASN:ND2	2.50	0.44
2:A2:969:ASP:H	6:D1:196:ILE:HA	1.79	0.44
2:A2:977:VAL:HA	6:D1:492:VAL:HG12	1.98	0.44
1:A3:1091:VAL:CG2	6:D3:808:ASN:N	2.33	0.44
1:A3:1162:ASN:OD1	3:A6:646:ILE:HG23	2.17	0.44
1:A3:1197:ALA:CB	2:A4:728:LYS:CG	2.65	0.44
1:A3:1277:TRP:CE3	3:A6:622:GLY:HA2	2.47	0.44
2:A4:231:SER:CB	6:D3:709:ARG:HH22	2.21	0.44
2:A4:705:ILE:N	2:A4:706:PRO:HD2	2.32	0.44
2:A4:726:ALA:O	3:A6:575:LEU:CD2	2.57	0.44
2:A4:760:LEU:CB	3:A6:388:GLU:CG	2.86	0.44
2:A4:774:VAL:CG1	3:A6:467:LEU:HG	2.22	0.44
2:A4:820:LYS:O	3:A6:158:ALA:HB2	2.18	0.44
2:A4:865:ALA:O	6:D3:598:ILE:CG1	2.61	0.44
2:A4:868:GLN:OE1	6:D3:570:VAL:CA	2.66	0.44
3:A5:1394:VAL:HG12	28:Z2:875:LEU:N	2.30	0.44
6:D1:436:THR:HG23	6:D1:439:GLN:H	1.82	0.44
6:D3:445:LEU:HD12	6:D3:446:GLU:N	2.33	0.44
6:D3:523:LEU:HD12	6:D3:523:LEU:C	2.42	0.44
6:D4:646:LEU:HD22	6:D4:696:ILE:HD11	1.99	0.44
6:D5:646:LEU:HD22	6:D5:696:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:587:LEU:HD13	6:D6:631:LEU:HA	1.99	0.44
8:F1:1837:LYS:O	8:F1:1841:LEU:HD13	2.18	0.44
8:F2:535:ILE:HG13	8:F2:536:PRO:HD2	1.99	0.44
8:F2:840:ARG:HG3	8:F2:841:PRO:HD2	1.98	0.44
8:F2:1113:LYS:N	8:F2:1114:PRO:HD2	2.32	0.44
9:G2:258:LYS:O	17:O4:259:ASP:HB2	2.08	0.44
11:I1:763:ASP:OD1	11:I1:835:ARG:NE	2.48	0.44
11:I1:890:TYR:HD1	17:O1:238:ALA:N	2.15	0.44
11:I1:965:ALA:CB	20:R1:164:PRO:CA	2.96	0.44
11:I1:1013:GLU:O	16:N1:412:ASN:HA	2.17	0.44
11:I1:1037:THR:HG21	20:R1:173:LEU:HB2	0.68	0.44
11:I2:958:THR:H	16:N3:399:HIS:CE1	2.31	0.44
11:I3:660:THR:OG1	11:I3:661:HIS:N	2.51	0.44
21:S2:619:GLY:HA2	21:S2:620:LEU:CB	2.47	0.44
21:S3:133:ILE:HG21	21:S3:133:ILE:HD13	1.69	0.44
21:S3:615:ILE:O	21:S3:620:LEU:CB	2.66	0.44
21:S3:1127:GLN:C	21:S3:1129:ASP:N	2.74	0.44
21:S4:699:ILE:C	21:S4:701:GLU:H	2.24	0.44
23:U1:35:PRO:HB3	31:c2:556:GLN:NE2	2.26	0.44
23:U2:81:LEU:HD13	23:U2:85:ARG:NH2	2.32	0.44
23:U2:350:VAL:HG22	31:c4:549:ALA:HB1	1.99	0.44
24:V2:526:HIS:C	24:V2:528:LEU:H	2.26	0.44
25:W2:35:ILE:HB	25:W2:47:ASP:HB2	2.00	0.44
26:X2:295:TYR:CD2	34:i:417:GLY:HA3	2.52	0.44
26:X2:303:PHE:CD1	34:i:447:CYS:HB2	2.53	0.44
26:X3:268:SER:HB2	26:X3:269:ASP:OD1	2.17	0.44
28:Z1:524:VAL:HG11	30:b1:236:THR:HB	1.88	0.44
28:Z3:521:SER:O	30:b3:238:ASN:CB	2.65	0.44
30:b2:53:SER:O	30:b2:384:ARG:HD3	2.17	0.44
30:b3:192:PHE:CE1	30:b3:200:LEU:HD22	2.52	0.44
31:c5:170:ARG:NH2	31:c5:173:GLU:OE1	2.50	0.44
32:g:93:PHE:HD2	32:g:111:MET:HE2	1.83	0.44
33:h:184:GLN:O	33:h:187:LYS:HB2	2.17	0.44
34:i:55:LEU:HA	34:i:128:ILE:HD11	2.00	0.44
1:A3:1056:PHE:HB3	6:D3:808:ASN:CB	2.48	0.44
1:A3:1194:HIS:HE1	3:A6:552:PHE:CE2	2.19	0.44
1:A3:1278:PRO:CD	3:A6:624:ASP:CB	2.75	0.44
2:A4:551:GLN:O	3:A6:455:LEU:CA	2.66	0.44
2:A4:642:ARG:C	3:A6:501:VAL:HB	2.40	0.44
2:A4:687:LEU:CD1	3:A6:476:PHE:CZ	2.80	0.44
2:A4:687:LEU:HD23	3:A6:397:LEU:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:HG11	3:A6:476:PHE:HB3	1.98	0.44
2:A4:975:GLU:CG	6:D3:501:LEU:HB2	2.38	0.44
2:A4:978:ASP:HA	6:D3:463:PHE:CE1	2.52	0.44
3:A5:1028:VAL:CG1	11:I5:68:ILE:HD13	2.43	0.44
3:A5:1094:ILE:HD12	11:I5:34:LEU:HD21	2.00	0.44
3:A6:1151:THR:CA	5:C6:733:LEU:HD13	2.40	0.44
3:A6:1255:LEU:HB3	3:A6:1256:PRO:HD3	2.00	0.44
6:D1:646:LEU:HD22	6:D1:696:ILE:HD11	1.99	0.44
6:D3:650:VAL:HB	6:D3:651:PRO:HD3	1.99	0.44
6:D4:482:MET:SD	6:D4:482:MET:N	2.90	0.44
6:D5:226:MET:HE1	6:D5:464:GLN:HG2	1.99	0.44
6:D6:445:LEU:HD12	6:D6:446:GLU:N	2.33	0.44
6:D7:423:PHE:O	6:D7:424:ASP:C	2.60	0.44
11:I1:873:ILE:HG22	17:O1:255:GLY:CA	2.46	0.44
11:I1:921:GLU:CG	16:N1:392:THR:HB	2.48	0.44
11:I1:936:LYS:HA	15:M1:609:GLY:HA3	1.99	0.44
11:I1:1029:LEU:HG	20:R1:171:ALA:C	1.85	0.44
11:I1:1036:PRO:HA	16:N1:441:PHE:HE2	1.83	0.44
11:I2:271:ASP:OD1	11:I2:272:LYS:N	2.49	0.44
11:I2:915:ALA:CB	15:M3:583:ASP:C	2.91	0.44
11:I2:924:ILE:HG13	15:M3:596:ILE:HB	1.80	0.44
11:I2:980:ILE:HA	15:M3:617:THR:C	2.42	0.44
11:I2:992:ILE:HG13	15:M3:610:SER:H	1.83	0.44
11:I2:1052:LEU:CB	16:N3:438:LEU:HD11	2.47	0.44
11:I4:815:ILE:O	26:X3:497:ARG:CA	2.32	0.44
21:S1:596:ILE:O	21:S2:1120:PRO:HD2	2.17	0.44
21:S1:615:ILE:O	21:S1:620:LEU:CB	2.66	0.44
22:T1:741:ASP:OD1	31:c5:24:GLN:CD	2.61	0.44
22:T2:774:PRO:HG2	22:T2:792:GLU:HA	2.00	0.44
22:T3:669:ARG:HA	22:T3:669:ARG:HD3	1.85	0.44
22:T4:851:LYS:HB3	22:T4:851:LYS:HE2	1.77	0.44
23:U1:222:VAL:O	24:V1:256:VAL:HG22	2.18	0.44
23:U2:226:GLN:H	23:U2:226:GLN:CD	2.25	0.44
23:U2:323:THR:CG2	31:c4:91:PRO:HG2	2.47	0.44
23:U2:385:LEU:O	23:U2:389:VAL:HG23	2.18	0.44
23:U3:385:LEU:O	23:U3:389:VAL:HG23	2.18	0.44
24:V1:173:ILE:HD11	25:W1:43:HIS:HD2	1.82	0.44
24:V3:187:ASP:C	24:V3:187:ASP:OD1	2.60	0.44
25:W1:273:GLY:C	25:W1:275:ASP:H	2.25	0.44
25:W2:16:VAL:HG23	25:W2:59:VAL:HG23	1.98	0.44
26:X2:201:ARG:CZ	34:i:447:CYS:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:304:ARG:N	34:i:418:LEU:HD21	2.32	0.44
26:X2:312:LYS:HB3	34:i:398:ASP:HA	1.50	0.44
26:X2:453:ASP:OD1	26:X2:499:ALA:HB1	2.17	0.44
26:X3:328:LEU:HA	26:X3:331:TYR:HB2	2.00	0.44
26:X4:202:SER:HA	26:X4:297:LYS:O	2.18	0.44
26:X4:406:LEU:HB2	26:X4:407:PRO:HD3	1.98	0.44
27:Y3:296:LEU:HD21	27:Y3:299:GLU:HG3	1.98	0.44
28:Z1:658:HIS:HA	28:Z1:661:GLN:OE1	2.18	0.44
28:Z2:530:LYS:HB2	30:b2:185:SER:HB3	0.82	0.44
28:Z2:668:TYR:CZ	28:Z2:672:LYS:HE3	2.53	0.44
28:Z4:534:ASP:HA	28:Z4:537:THR:OG1	2.18	0.44
28:Z4:658:HIS:HA	28:Z4:661:GLN:OE1	2.18	0.44
29:a2:214[B]:THR:HG21	29:a2:252[B]:MET:HE2	1.98	0.44
30:b3:69:PRO:HD2	30:b3:107:GLN:HB2	2.00	0.44
31:c1:95:ASP:OD1	31:c1:95:ASP:N	2.48	0.44
31:c5:233:THR:HG22	31:c5:278:LEU:HA	1.98	0.44
32:g:312:GLU:CD	32:g:312:GLU:N	2.76	0.44
1:A1:875:LEU:N	6:D3:276:GLY:O	2.50	0.44
1:A1:1017:THR:HG21	1:A1:1048:ARG:NH1	2.33	0.44
2:A2:864:ARG:HG3	6:D1:606:LYS:HA	0.91	0.44
1:A3:1203:TYR:HA	3:A6:91:LEU:HA	1.87	0.44
1:A3:1271:ILE:N	3:A6:554:GLN:HB3	2.33	0.44
2:A4:496:THR:CB	3:A6:366:ALA:HB1	2.46	0.44
2:A4:675:ALA:HB3	3:A6:508:LEU:CD1	2.30	0.44
2:A4:689:LYS:CB	3:A6:378:ILE:HG21	2.21	0.44
2:A4:793:SER:HG	3:A6:187:THR:C	2.25	0.44
2:A4:796:GLN:CG	3:A6:250:PHE:CD1	2.28	0.44
2:A4:852:ASP:CG	3:A6:155:TYR:C	2.86	0.44
2:A4:876:ARG:NE	6:D3:565:MET:CG	2.77	0.44
2:A4:902:VAL:N	4:B6:342:ARG:N	2.66	0.44
2:A4:1094:ILE:HD13	6:D4:708:ASP:H	1.83	0.44
3:A5:1094:ILE:HG22	11:I5:4:LEU:O	2.17	0.44
3:A6:483:HIS:N	6:D3:675:ARG:HD3	2.32	0.44
6:D2:445:LEU:HD12	6:D2:446:GLU:N	2.33	0.44
6:D5:587:LEU:HD13	6:D5:631:LEU:HA	1.99	0.44
8:F1:1135:ARG:HE	17:O2:249:ARG:CG	2.30	0.44
9:G1:258:LYS:CE	16:N2:408:MET:CE	2.95	0.44
9:G2:256:GLN:CB	17:O4:261:LYS:HB3	2.33	0.44
11:I1:917:TYR:O	15:M1:588:MET:HG2	2.17	0.44
11:I1:1017:VAL:CA	16:N1:408:MET:C	2.89	0.44
11:I1:1035:GLN:HG2	15:M1:628:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1038:ILE:CG1	20:R1:167:GLN:CG	2.95	0.44
11:I1:1051:LYS:N	17:O1:287:LEU:C	2.76	0.44
11:I1:1673:VAL:HB	11:I2:1639:LEU:HD21	2.00	0.44
11:I2:660:THR:OG1	11:I2:661:HIS:N	2.51	0.44
11:I2:887:GLN:O	16:N3:393:ILE:HD13	2.18	0.44
11:I2:938:CYS:HA	17:O3:261:LYS:HA	1.22	0.44
11:I2:962:ILE:O	20:R3:154:ALA:HB2	2.17	0.44
11:I2:967:SER:HA	20:R3:150:ASN:HA	2.00	0.44
11:I2:976:ARG:CB	20:R3:149:ARG:N	2.47	0.44
11:I2:1034:ASP:H	20:R3:177:LEU:CD2	2.30	0.44
11:I2:1037:THR:HG1	15:M3:620:VAL:HG13	1.78	0.44
11:I2:1083:GLU:OE1	11:I2:1083:GLU:N	2.42	0.44
11:I3:815:ILE:HG22	26:X1:498:SER:H	1.81	0.44
11:I5:1015:TYR:OH	11:I5:1089:TYR:O	2.31	0.44
11:I5:1361:ALA:O	11:I5:1365:ALA:N	2.50	0.44
21:S1:946:LEU:HD11	22:T1:898:ARG:HG2	1.99	0.44
21:S4:626:SER:O	21:S4:627:PHE:C	2.60	0.44
22:T1:822:LEU:HD22	22:T1:886:HIS:CE1	2.52	0.44
22:T3:767:MET:HE3	22:T3:767:MET:HB3	1.92	0.44
23:U1:143:LYS:HG3	23:U1:144:TRP:N	2.32	0.44
23:U1:394:ILE:CA	31:c2:552:ARG:HE	2.30	0.44
23:U2:35:PRO:CG	31:c4:531:TRP:CG	3.01	0.44
23:U2:409:LYS:CG	31:c4:542:LYS:C	2.89	0.44
23:U2:435:PHE:CE1	31:c4:535:VAL:O	2.65	0.44
23:U4:382:LYS:HA	23:U4:383:PRO:HD3	1.77	0.44
24:V1:391:CYS:O	24:V1:395:ILE:HD11	2.17	0.44
24:V1:393:GLY:O	24:V1:394:GLN:HB2	2.17	0.44
24:V2:391:CYS:O	24:V2:395:ILE:HD11	2.17	0.44
24:V3:526:HIS:C	24:V3:528:LEU:H	2.26	0.44
24:V4:393:GLY:O	24:V4:394:GLN:HB2	2.17	0.44
25:W3:273:GLY:C	25:W3:275:ASP:H	2.25	0.44
26:X1:202:SER:HA	26:X1:297:LYS:O	2.18	0.44
26:X1:328:LEU:HA	26:X1:331:TYR:HB2	2.00	0.44
26:X2:313:LEU:CB	34:i:471:ILE:CG2	2.89	0.44
28:Z1:401:THR:CB	30:b1:253:SER:CA	2.79	0.44
28:Z1:561:GLN:HG3	30:b1:236:THR:C	2.39	0.44
28:Z1:643:ASP:OD2	28:Z1:646:ILE:HG13	2.17	0.44
28:Z2:285:ASN:OD1	28:Z2:285:ASN:N	2.48	0.44
28:Z2:436:HIS:NE2	28:Z2:438:GLU:HB2	2.31	0.44
28:Z2:438:GLU:CB	30:b2:333:HIS:CE1	2.99	0.44
28:Z2:534:ASP:HA	28:Z2:537:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:407:GLY:C	30:b3:251:ILE:CD1	2.77	0.44
28:Z4:563:GLU:OE2	30:b4:303:LEU:HD23	2.18	0.44
30:b1:69:PRO:HD2	30:b1:107:GLN:HB2	2.00	0.44
30:b2:243:VAL:O	30:b2:245:THR:OG1	2.35	0.44
30:b3:243:VAL:O	30:b3:245:THR:OG1	2.34	0.44
31:c2:158:LEU:HD23	31:c2:158:LEU:C	2.42	0.44
32:g:105:LEU:HD22	32:g:126:ARG:HD2	1.99	0.44
33:h:239:PHE:HB3	33:h:270:MET:CE	2.45	0.44
1:A1:1229:VAL:CG1	2:A2:725:GLU:HB3	2.47	0.44
1:A1:1399:ARG:O	2:A2:881:GLU:OE2	2.35	0.44
2:A2:825:ARG:CZ	6:D1:633:LYS:NZ	2.81	0.44
2:A2:973:GLU:C	6:D1:205:LEU:HD23	2.32	0.44
2:A2:978:ASP:O	6:D1:476:VAL:CB	2.64	0.44
2:A2:1094:ILE:HB	6:D2:759:GLN:HG2	1.98	0.44
2:A2:1153:LEU:CB	3:A5:173:ASN:C	2.90	0.44
1:A3:199:PHE:HA	4:B3:353:LEU:HA	1.99	0.44
1:A3:939:LYS:N	1:A3:940:PRO:HD3	2.32	0.44
1:A3:1224:PRO:CA	2:A4:724:LEU:HA	2.46	0.44
1:A3:1224:PRO:C	3:A6:548:LEU:HD12	2.43	0.44
1:A3:1263:ILE:HG23	3:A6:712:THR:CA	2.48	0.44
1:A3:1281:LEU:CA	3:A6:625:LEU:CG	2.61	0.44
1:A3:1387:ILE:O	3:A6:226:PRO:HA	2.18	0.44
2:A4:88:THR:HG21	3:A6:392:LEU:HD11	1.23	0.44
2:A4:554:GLN:CD	3:A6:457:LYS:HD2	2.42	0.44
2:A4:691:LYS:HB2	3:A6:316:ARG:CZ	2.28	0.44
2:A4:806:PHE:CG	3:A6:382:SER:CB	2.89	0.44
2:A4:808:GLN:HB3	3:A6:319:TYR:HA	1.06	0.44
2:A4:861:GLN:HB2	6:D3:606:LYS:NZ	2.29	0.44
2:A4:865:ALA:HA	6:D3:567:LEU:CD2	2.14	0.44
2:A4:876:ARG:NH2	6:D3:563:GLU:O	2.51	0.44
2:A4:970:PHE:HZ	6:D3:555:ARG:NH2	2.08	0.44
2:A4:971:ALA:H	6:D3:202:GLN:CG	2.11	0.44
3:A5:160:ILE:HD11	5:C2:743:LEU:HD12	1.83	0.44
3:A5:234:LEU:HD22	5:C2:738:ASP:O	2.04	0.44
3:A5:1395:LYS:CA	28:Z2:874:ASN:H	2.31	0.44
3:A6:861:GLN:HB2	3:A6:882:SER:HB3	1.99	0.44
4:B5:344:ALA:HA	5:C2:737:LYS:HZ2	1.78	0.44
6:D1:226:MET:HE1	6:D1:464:GLN:HG2	1.99	0.44
6:D1:445:LEU:HD12	6:D1:446:GLU:N	2.33	0.44
6:D2:749:LEU:CD2	6:D2:792:LEU:HD22	2.48	0.44
6:D3:423:PHE:O	6:D3:424:ASP:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:584:LEU:HD22	6:D3:609:ILE:HD11	2.00	0.44
6:D5:382:ASN:OD1	6:D5:383:THR:N	2.50	0.44
8:F1:840:ARG:HG3	8:F1:841:PRO:HD2	1.98	0.44
8:F1:982:PRO:HG3	11:I1:1388:GLU:HG3	2.00	0.44
8:F2:1837:LYS:O	8:F2:1841:LEU:HD13	2.18	0.44
11:I1:1046:HIS:HB3	17:O1:284:LYS:H	1.82	0.44
11:I1:1611:PHE:CG	11:I2:1669:ARG:HA	2.53	0.44
11:I2:877:ILE:CB	17:O3:253:LEU:N	2.77	0.44
11:I2:882:LYS:HA	17:O3:249:ARG:HD2	0.87	0.44
11:I2:884:LEU:CD2	16:N3:396:ILE:HD13	2.48	0.44
11:I2:890:TYR:H	17:O3:242:ARG:HE	1.02	0.44
11:I2:919:ALA:HB1	16:N3:392:THR:OG1	2.09	0.44
11:I2:944:GLU:HG2	17:O3:256:TYR:CE1	2.53	0.44
11:I2:968:PRO:CD	20:R3:153:GLN:CB	2.50	0.44
11:I2:981:VAL:HG12	20:R3:151:LYS:HB2	1.99	0.44
11:I2:1051:LYS:CG	17:O3:284:LYS:O	2.66	0.44
11:I4:660:THR:OG1	11:I4:661:HIS:N	2.51	0.44
11:I4:1235:THR:OG1	29:a3:27:GLN:HG2	2.15	0.44
11:I5:1278:ALA:HB2	26:X2:516:ASN:HB3	1.98	0.44
21:S1:680:PRO:C	21:S2:1127:GLN:CD	2.69	0.44
21:S2:1039:GLU:HG2	21:S2:1039:GLU:H	1.59	0.44
22:T2:917:ASP:HB2	22:T2:918:PRO:CD	2.47	0.44
23:U1:8:GLN:C	23:U1:10:GLU:N	2.68	0.44
23:U1:198:GLU:HB3	31:c1:637:ASP:OD2	2.18	0.44
23:U1:402:GLY:HA3	31:c2:551:LEU:N	2.29	0.44
23:U2:43:ARG:H	31:c4:474:ASN:H	1.66	0.44
23:U2:407:VAL:HG22	31:c4:163:ASP:HB2	2.00	0.44
23:U2:431:ILE:CG2	31:c4:484:LEU:HD12	2.40	0.44
23:U2:434:THR:CG2	31:c4:460:LEU:HD13	2.42	0.44
25:W3:16:VAL:HG23	25:W3:59:VAL:HG23	1.98	0.44
25:W3:63:HIS:CD2	25:W3:64:PRO:HD2	2.53	0.44
25:W4:63:HIS:CD2	25:W4:64:PRO:HD2	2.53	0.44
26:X1:453:ASP:OD1	26:X1:499:ALA:HB1	2.17	0.44
26:X2:202:SER:HA	26:X2:297:LYS:O	2.18	0.44
26:X2:279:ALA:HB1	34:i:15:GLN:CA	2.40	0.44
26:X2:300:SER:CA	34:i:367:GLU:HG3	2.48	0.44
26:X2:361:LEU:CD1	34:i:441:LEU:HD12	2.44	0.44
26:X2:363:TYR:CD2	34:i:419:THR:HB	2.53	0.44
26:X4:58:ILE:HG22	26:X4:59:GLU:N	2.33	0.44
26:X4:97:ARG:HB3	26:X4:97:ARG:NH1	2.32	0.44
27:Y2:144:ASP:C	27:Y2:146:ARG:H	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y3:41:ASP:HB2	29:a3:231[B]:HIS:HE1	1.64	0.44
27:Y3:124:LYS:HG3	27:Y3:138:ASP:OD1	2.17	0.44
27:Y4:31:GLN:OE1	27:Y4:52:ARG:NH1	2.50	0.44
28:Z2:499:SER:O	28:Z2:500:GLU:C	2.60	0.44
28:Z2:554:PHE:HD1	30:b2:232:PRO:HB2	1.71	0.44
28:Z3:524:VAL:CG1	30:b3:236:THR:CA	2.84	0.44
28:Z3:555:LYS:HB2	30:b3:233:TRP:CD2	2.53	0.44
28:Z4:552:ASP:O	30:b4:233:TRP:CD2	2.64	0.44
30:b1:53:SER:O	30:b1:384:ARG:HD3	2.17	0.44
30:b2:130:LYS:O	30:b2:134:HIS:NE2	2.41	0.44
31:c1:517:LEU:HB3	31:c1:518:PRO:HD3	2.00	0.44
32:g:110:CYS:SG	32:g:152:VAL:HG21	2.58	0.44
33:h:203:LEU:N	33:h:203:LEU:HD23	2.33	0.44
2:A2:203:ILE:HD11	4:B2:352:ALA:HA	2.00	0.44
2:A2:351:ILE:HD11	2:A2:424:PRO:HB2	2.00	0.44
2:A2:874:VAL:CG2	6:D1:611:LYS:NZ	2.66	0.44
1:A3:1117:ILE:HG13	3:A6:590:SER:OG	2.17	0.44
1:A3:1259:CYS:HG	3:A6:624:ASP:CG	2.24	0.44
1:A3:1318:TRP:CE2	3:A6:624:ASP:CB	3.01	0.44
1:A3:1386:GLU:O	3:A6:224:PRO:HB2	2.18	0.44
2:A4:86:ASN:CA	3:A6:393:HIS:N	2.81	0.44
2:A4:91:LEU:HD22	3:A6:430:GLN:NE2	1.94	0.44
2:A4:387:THR:O	3:A6:363:ALA:HB1	2.18	0.44
2:A4:543:GLY:C	3:A6:363:ALA:N	2.65	0.44
2:A4:723:PHE:CG	3:A6:497:GLY:N	2.85	0.44
2:A4:769:GLU:CG	3:A6:477:PHE:CZ	3.01	0.44
2:A4:896:ALA:HA	3:A6:179:TYR:H	0.67	0.44
2:A4:899:THR:CA	3:A6:178:GLY:HA3	2.30	0.44
2:A4:1040:PHE:CD1	2:A4:1040:PHE:C	2.95	0.44
3:A5:1365:VAL:HG13	28:Z2:841:ALA:HB2	1.95	0.44
3:A5:1369:ILE:CD1	28:Z2:833:ASP:N	2.53	0.44
3:A6:127:HIS:CD2	6:D3:636:ASP:OD2	2.71	0.44
3:A6:442:ARG:HE	6:D3:692:LEU:HG	1.81	0.44
6:D4:423:PHE:O	6:D4:424:ASP:C	2.60	0.44
6:D5:749:LEU:CD2	6:D5:792:LEU:HD22	2.48	0.44
6:D6:650:VAL:HB	6:D6:651:PRO:HD3	1.99	0.44
8:F1:535:ILE:HG13	8:F1:536:PRO:HD2	1.99	0.44
8:F1:1120:HIS:O	8:F1:1124:THR:HG23	2.18	0.44
9:G2:256:GLN:N	17:O4:262:ASP:OD1	2.38	0.44
9:G2:258:LYS:CD	17:O4:259:ASP:OD2	2.66	0.44
11:I1:837:MET:N	17:O1:241:SER:HA	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:920:PHE:CZ	15:M1:595:MET:HB2	2.44	0.44
11:I1:928:LEU:CG	20:R1:155:GLU:CB	2.96	0.44
11:I1:952:LEU:HA	16:N1:400:LEU:CG	2.33	0.44
11:I2:797:LEU:CD2	17:O3:245:GLU:HA	2.47	0.44
11:I2:879:VAL:HB	17:O3:251:ILE:CD1	2.38	0.44
11:I2:887:GLN:CG	16:N3:393:ILE:C	2.80	0.44
11:I2:934:LEU:HD22	15:M3:602:MET:HB3	1.57	0.44
11:I2:949:CYS:HB2	15:M3:606:LEU:HD22	1.99	0.44
11:I2:1024:PHE:CB	16:N3:406:HIS:NE2	2.76	0.44
11:I3:1280:PRO:CG	26:X1:539:TYR:CE2	3.00	0.44
11:I4:1276:GLN:NE2	26:X3:519:ILE:HG22	2.33	0.44
11:I5:480:ASP:OD1	11:I5:481:ALA:N	2.51	0.44
16:N4:284:PRO:HA	16:N4:287:VAL:HG12	1.99	0.44
17:O4:110:LEU:HD21	18:P4:320:GLN:N	2.32	0.44
21:S4:934:HIS:C	21:S4:934:HIS:CD2	2.94	0.44
21:S4:946:LEU:HD11	22:T4:898:ARG:HG2	1.99	0.44
22:T1:755:GLU:C	31:c5:58:ARG:NH1	2.75	0.44
22:T4:887:LYS:HB3	22:T4:890:LEU:HD12	1.98	0.44
23:U1:436:LEU:HA	31:c2:539:ILE:HA	1.99	0.44
23:U2:25:GLU:C	31:c4:578:TRP:NE1	2.75	0.44
23:U2:38:ILE:HG22	31:c4:476:PRO:HA	2.00	0.44
23:U2:391:HIS:O	31:c4:476:PRO:HB2	2.17	0.44
23:U3:284:SER:O	23:U3:288:ILE:HG12	2.16	0.44
23:U4:314:ILE:HD12	24:V4:309:LYS:CE	2.48	0.44
24:V3:391:CYS:O	24:V3:395:ILE:HD11	2.17	0.44
25:W1:52:HIS:CE1	25:W1:80:LEU:HD12	2.53	0.44
26:X1:58:ILE:HG22	26:X1:59:GLU:N	2.33	0.44
26:X2:192:LEU:CG	34:i:443:THR:N	2.81	0.44
26:X2:295:TYR:CD2	34:i:417:GLY:N	2.85	0.44
26:X2:300:SER:HB3	34:i:335:HIS:O	2.18	0.44
26:X2:533:GLU:H	26:X2:533:GLU:HG2	1.45	0.44
26:X3:58:ILE:HG22	26:X3:59:GLU:N	2.33	0.44
26:X4:268:SER:HB2	26:X4:269:ASP:OD1	2.17	0.44
26:X4:328:LEU:HA	26:X4:331:TYR:HB2	2.00	0.44
27:Y2:31:GLN:OE1	27:Y2:52:ARG:NH1	2.50	0.44
27:Y2:131:ASP:OD2	27:Y2:135:ARG:NH2	2.51	0.44
27:Y3:131:ASP:OD2	27:Y3:135:ARG:NH2	2.51	0.44
27:Y4:131:ASP:OD2	27:Y4:135:ARG:NH2	2.51	0.44
28:Z1:438:GLU:HB2	30:b1:333:HIS:CE1	2.48	0.44
28:Z1:668:TYR:CZ	28:Z1:672:LYS:HE3	2.53	0.44
28:Z2:438:GLU:HB2	30:b2:333:HIS:CE1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:555:LYS:HE3	30:b2:216:LEU:HD22	1.31	0.44
28:Z3:524:VAL:HG11	30:b3:236:THR:HB	1.88	0.44
28:Z3:551:THR:HB	30:b3:233:TRP:HH2	1.17	0.44
28:Z3:658:HIS:HA	28:Z3:661:GLN:OE1	2.18	0.44
30:b4:11:PRO:HB2	30:b4:14:VAL:CG2	2.47	0.44
30:b4:69:PRO:HD2	30:b4:107:GLN:HB2	2.00	0.44
30:b4:216:LEU:HD12	30:b4:216:LEU:HA	1.78	0.44
31:c4:517:LEU:HB3	31:c4:518:PRO:HD3	2.00	0.44
1:A1:861:GLN:HB2	1:A1:882:SER:HB3	1.99	0.43
1:A1:1332:ARG:HH22	6:D1:682:ASN:N	2.16	0.43
2:A2:866:SER:H	6:D1:604:ASP:C	2.25	0.43
2:A2:1121:LEU:C	3:A5:133:LYS:N	2.74	0.43
1:A3:1132:PRO:N	3:A6:653:ARG:HH22	2.14	0.43
1:A3:1227:PRO:HD3	3:A6:549:ALA:C	2.43	0.43
1:A3:1244:LEU:C	3:A6:633:MET:HE1	2.39	0.43
1:A3:1261:TYR:CE1	3:A6:621:GLN:CD	2.72	0.43
1:A3:1274:ASP:HB3	3:A6:556:PRO:HB2	1.98	0.43
1:A3:1318:TRP:CH2	3:A6:624:ASP:CG	2.64	0.43
2:A4:89:LEU:HA	3:A6:431:PHE:H	1.82	0.43
2:A4:552:PHE:O	3:A6:435:PRO:O	2.36	0.43
2:A4:574:ARG:HB2	3:A6:454:GLN:HA	1.99	0.43
2:A4:731:ILE:CG2	3:A6:95:TYR:HB2	2.47	0.43
2:A4:761:GLN:NE2	3:A6:545:GLY:CA	2.79	0.43
2:A4:893:LEU:CD2	3:A6:177:ILE:H	2.23	0.43
2:A4:900:THR:C	3:A6:137:HIS:CE1	2.87	0.43
3:A5:1377:ARG:N	28:Z2:811:LEU:CB	2.81	0.43
3:A6:1411:ARG:HG2	26:X4:690:THR:N	2.10	0.43
6:D5:445:LEU:HD12	6:D5:446:GLU:N	2.33	0.43
6:D5:722:LEU:HD12	31:c4:505:SER:O	2.18	0.43
8:F2:134:ASP:OD2	8:F2:1056:ARG:NH2	2.51	0.43
9:G1:263:MET:C	16:N2:411:GLN:CB	2.57	0.43
11:I1:833:PHE:CE1	17:O1:241:SER:C	2.96	0.43
11:I1:846:ILE:CB	15:M1:594:LYS:HB3	2.48	0.43
11:I1:846:ILE:HB	17:O1:247:TRP:CZ2	2.51	0.43
11:I1:875:ARG:N	17:O1:251:ILE:HG22	2.33	0.43
11:I1:947:LEU:CD1	16:N1:408:MET:HA	2.47	0.43
11:I1:1055:GLU:HA	17:O1:281:ALA:HB3	2.00	0.43
11:I1:1333:THR:N	11:I1:1334:PRO:CD	2.81	0.43
11:I1:1639:LEU:HD11	11:I2:1674:HIS:HB2	2.00	0.43
11:I1:1675:VAL:HG23	11:I2:1671:LEU:HD13	1.99	0.43
11:I2:352:ASN:OD1	11:I2:353:LEU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:877:ILE:HG12	17:O3:254:ARG:CG	2.16	0.43
11:I2:1018:LYS:HD2	16:N3:413:VAL:HA	1.54	0.43
11:I2:1035:GLN:C	16:N3:441:PHE:CE2	2.96	0.43
11:I2:1116:ASP:OD2	12:J2:241:THR:HG21	2.17	0.43
11:I4:271:ASP:OD1	11:I4:272:LYS:N	2.49	0.43
17:O1:99:LEU:O	17:O1:137:VAL:N	2.51	0.43
17:O2:99:LEU:O	17:O2:137:VAL:N	2.51	0.43
21:S2:615:ILE:O	21:S2:620:LEU:CB	2.66	0.43
21:S4:1119:LEU:HB2	21:S4:1155:GLN:CD	2.43	0.43
22:T1:774:PRO:HG2	22:T1:792:GLU:HA	2.00	0.43
23:U1:397:ASP:OD2	31:c2:548:VAL:HG12	2.17	0.43
24:V1:283:GLU:HG3	31:c1:15:VAL:HG22	0.57	0.43
24:V3:311:ALA:HB1	24:V3:316:ASN:O	2.18	0.43
25:W3:18:ASP:OD1	25:W3:18:ASP:N	2.46	0.43
26:X1:141:ASN:N	26:X1:141:ASN:HD22	2.16	0.43
26:X1:215:SER:HB2	26:X1:390:TRP:CZ2	2.54	0.43
26:X2:208:LEU:HD22	34:i:445:GLN:CA	2.45	0.43
26:X2:317:PHE:CA	34:i:400:LYS:CE	2.95	0.43
26:X3:221:GLU:HA	26:X3:224:ILE:HG13	2.00	0.43
26:X4:215:SER:HB2	26:X4:390:TRP:CZ2	2.53	0.43
26:X4:221:GLU:HA	26:X4:224:ILE:HG13	2.00	0.43
27:Y1:107:SER:HA	27:Y1:135:ARG:HH21	1.83	0.43
27:Y2:219:SER:HG	27:Y2:312:TRP:HD1	1.62	0.43
27:Y3:31:GLN:OE1	27:Y3:52:ARG:NH1	2.50	0.43
28:Z1:534:ASP:H	30:b1:164:CYS:HB3	1.77	0.43
28:Z1:549:LYS:CB	30:b1:182:PRO:CD	2.92	0.43
28:Z2:601:PHE:O	28:Z2:602:ILE:C	2.61	0.43
28:Z3:410:ASN:N	30:b3:251:ILE:HD11	2.32	0.43
28:Z3:561:GLN:HG3	30:b3:237:LEU:N	2.31	0.43
28:Z4:531:LYS:CD	30:b4:183:LEU:N	2.63	0.43
28:Z4:534:ASP:H	30:b4:164:CYS:HB3	1.77	0.43
28:Z4:668:TYR:CZ	28:Z4:672:LYS:HE3	2.53	0.43
31:c1:322:ILE:O	31:c1:326:VAL:HG23	2.18	0.43
31:c3:538:LEU:HD12	31:c3:555:VAL:HG21	2.00	0.43
31:c5:517:LEU:HB3	31:c5:518:PRO:HD3	2.00	0.43
33:h:236:ILE:HD12	33:h:236:ILE:N	2.33	0.43
2:A2:199:PHE:CA	4:B2:353:LEU:HA	2.28	0.43
2:A2:987:LYS:CE	6:D1:555:ARG:H	2.31	0.43
1:A3:1201:ARG:CG	3:A6:548:LEU:CB	2.86	0.43
2:A4:349:LYS:NZ	2:A4:352:GLU:OE1	2.49	0.43
2:A4:553:ASP:C	3:A6:456:ASP:O	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:613:ALA:C	3:A6:509:LYS:NZ	2.74	0.43
2:A4:674:ASP:O	3:A6:98:LEU:C	2.61	0.43
2:A4:675:ALA:HB3	3:A6:101:TYR:HB3	1.53	0.43
2:A4:780:GLU:CB	6:D3:677:GLN:HB3	2.23	0.43
2:A4:880:ALA:HB1	6:D3:558:LYS:HD3	1.99	0.43
3:A5:1004:HIS:CE1	11:I5:62:GLU:H	2.29	0.43
3:A5:1391:ARG:CA	28:Z2:871:HIS:CB	2.56	0.43
3:A5:1415:PHE:C	28:Z2:962:LYS:H	2.25	0.43
3:A6:517:ILE:HG23	6:D3:683:LYS:HE2	1.68	0.43
6:D6:382:ASN:OD1	6:D6:383:THR:N	2.50	0.43
8:F2:1120:HIS:O	8:F2:1124:THR:HG23	2.18	0.43
11:I1:660:THR:OG1	11:I1:661:HIS:N	2.51	0.43
11:I1:876:ALA:C	17:O1:248:SER:HA	2.43	0.43
11:I1:919:ALA:HA	16:N1:389:PHE:HB3	1.32	0.43
11:I1:939:ASN:O	17:O1:265:ASN:CA	2.66	0.43
11:I1:961:ARG:HH12	16:N1:389:PHE:CA	1.93	0.43
11:I1:987:GLY:N	15:M1:613:ASP:HB3	2.31	0.43
11:I1:1106:LYS:N	16:N1:440:GLU:OE2	2.50	0.43
11:I2:874:LEU:CD2	17:O3:252:VAL:O	2.55	0.43
11:I2:880:MET:HG2	17:O3:247:TRP:CE3	2.53	0.43
11:I2:917:TYR:CG	15:M3:587:GLU:C	2.94	0.43
11:I2:951:LYS:CG	17:O3:253:LEU:CD1	2.96	0.43
11:I2:993:SER:N	15:M3:608:LYS:HG3	2.24	0.43
11:I2:998:ALA:HB2	17:O3:267:ALA:HB1	1.90	0.43
11:I2:1119:ARG:HH12	12:J2:240:GLY:HA3	1.83	0.43
11:I3:1015:TYR:OH	11:I3:1089:TYR:O	2.31	0.43
11:I4:1116:ASP:OD2	12:J4:241:THR:HG21	2.17	0.43
17:O3:156:ILE:CG2	17:O3:157:THR:N	2.81	0.43
21:S1:1020:LEU:H	21:S1:1020:LEU:CD2	2.31	0.43
21:S2:1020:LEU:H	21:S2:1020:LEU:CD2	2.31	0.43
22:T1:724:TYR:CD2	31:c5:28:LYS:NZ	2.82	0.43
22:T1:816:LYS:CD	31:c5:85:ARG:HH12	2.05	0.43
22:T3:781:THR:HG23	22:T3:783:THR:N	2.33	0.43
22:T4:774:PRO:HG2	22:T4:792:GLU:HA	2.00	0.43
22:T4:891:VAL:O	22:T4:891:VAL:HG12	2.17	0.43
23:U1:385:LEU:O	23:U1:389:VAL:HG23	2.18	0.43
23:U1:398:ILE:N	31:c2:552:ARG:HG2	1.95	0.43
23:U2:24:ILE:HG13	31:c4:481:ILE:O	2.17	0.43
23:U2:38:ILE:C	31:c4:474:ASN:HB2	2.43	0.43
23:U2:45:ALA:HB1	31:c4:470:ARG:C	2.41	0.43
23:U2:47:GLY:H	31:c4:473:THR:CG2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:436:LEU:CG	31:c4:540:HIS:ND1	2.60	0.43
23:U2:437:ASN:HD22	31:c4:198:ARG:HH21	1.62	0.43
23:U4:222:VAL:O	24:V4:256:VAL:HG22	2.18	0.43
24:V1:526:HIS:C	24:V1:528:LEU:H	2.26	0.43
25:W1:63:HIS:CD2	25:W1:64:PRO:HD2	2.53	0.43
25:W2:52:HIS:CE1	25:W2:80:LEU:HD12	2.53	0.43
26:X1:406:LEU:HB2	26:X1:407:PRO:HD3	1.98	0.43
26:X2:141:ASN:N	26:X2:141:ASN:HD22	2.16	0.43
26:X2:197:VAL:HG12	34:i:366:PHE:HD2	1.76	0.43
26:X2:329:ARG:HH11	34:i:476:LEU:HD12	1.82	0.43
28:Z2:526:ARG:HD2	30:b2:240:LEU:HD22	2.00	0.43
28:Z3:427:LEU:HD13	28:Z3:442:TYR:CE1	2.53	0.43
28:Z3:561:GLN:CG	30:b3:237:LEU:H	2.28	0.43
28:Z4:527:SER:CA	30:b4:204:GLU:CG	2.59	0.43
28:Z4:555:LYS:HG3	30:b4:233:TRP:CE3	2.24	0.43
29:a3:79:ASP:HB3	29:a3:137[B]:VAL:HG12	2.00	0.43
29:a4:214[B]:THR:HG21	29:a4:252[B]:MET:HE2	1.98	0.43
30:b2:279:ARG:NH1	30:b2:327:ASP:OD1	2.43	0.43
30:b4:78:SER:OG	30:b4:144:ASP:OD2	2.27	0.43
31:c1:285:MET:HE1	31:c1:346:MET:HE2	2.00	0.43
31:c4:285:MET:HE1	31:c4:346:MET:HE2	2.00	0.43
1:A1:1221:ILE:HG12	2:A2:642:ARG:CB	2.06	0.43
2:A2:1135:ARG:HG3	3:A5:138:LEU:HG	1.48	0.43
1:A3:1169:LEU:CA	3:A6:590:SER:O	2.61	0.43
1:A3:1190:ILE:CD1	3:A6:617:VAL:HG12	2.36	0.43
1:A3:1200:ARG:HB3	2:A4:727:ASN:O	2.17	0.43
1:A3:1220:PRO:CA	3:A6:501:VAL:C	2.91	0.43
1:A3:1254:LEU:O	3:A6:623:SER:HB2	2.17	0.43
1:A3:1257:VAL:HG12	3:A6:617:VAL:O	2.19	0.43
2:A4:215:ILE:HG21	2:A4:272:ILE:HD11	2.01	0.43
2:A4:701:ILE:CD1	3:A6:479:VAL:O	2.66	0.43
2:A4:761:GLN:CG	3:A6:545:GLY:CA	2.86	0.43
2:A4:871:ASN:HB2	6:D3:571:SER:N	2.33	0.43
2:A4:901:ALA:HB1	3:A6:133:LYS:HZ1	1.83	0.43
2:A4:941:ALA:HA	4:B6:350:GLU:CG	2.33	0.43
2:A4:958:LEU:CD1	4:B6:343:LYS:H	1.08	0.43
2:A4:970:PHE:HE1	6:D3:192:TYR:HE1	1.65	0.43
3:A5:175:GLU:OE2	5:C2:735:ILE:CA	2.66	0.43
3:A5:1356:SER:O	28:Z2:876:LEU:C	2.61	0.43
3:A6:442:ARG:HE	6:D3:692:LEU:CG	2.30	0.43
3:A6:442:ARG:HD3	6:D3:691:LEU:HG	1.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:443:ILE:C	6:D3:719:LEU:CD1	2.59	0.43
6:D1:587:LEU:HD13	6:D1:631:LEU:HA	1.99	0.43
6:D1:749:LEU:CD2	6:D1:792:LEU:HD22	2.48	0.43
6:D5:423:PHE:O	6:D5:424:ASP:C	2.60	0.43
6:D6:523:LEU:HD12	6:D6:523:LEU:C	2.42	0.43
6:D7:481:ARG:CG	11:I3:183:LYS:HE2	2.42	0.43
8:F1:134:ASP:OD2	8:F1:1056:ARG:NH2	2.51	0.43
8:F1:511:ALA:O	8:F1:1008:TYR:N	2.43	0.43
8:F2:140:GLU:HB3	17:O4:237:PRO:HG2	1.20	0.43
8:F2:1392:LEU:N	8:F2:1393:PRO:CD	2.82	0.43
11:I1:833:PHE:CZ	17:O1:242:ARG:N	2.86	0.43
11:I1:952:LEU:CD1	16:N1:400:LEU:HD11	2.47	0.43
11:I1:976:ARG:HD3	20:R1:146:LEU:HD23	1.17	0.43
11:I1:1057:LYS:O	17:O1:276:GLY:O	2.36	0.43
11:I2:480:ASP:OD1	11:I2:481:ALA:N	2.51	0.43
11:I2:920:PHE:C	15:M3:595:MET:HB3	2.38	0.43
11:I2:951:LYS:CG	17:O3:253:LEU:HD11	2.48	0.43
11:I2:1041:GLN:CD	15:M3:617:THR:CG2	2.91	0.43
11:I2:1185:ILE:HA	17:O4:221:ASP:OD2	2.18	0.43
11:I3:1266:ALA:O	26:X1:528:GLU:CA	2.67	0.43
11:I4:1333:THR:N	11:I4:1334:PRO:CD	2.81	0.43
11:I5:271:ASP:OD1	11:I5:272:LYS:N	2.49	0.43
12:J4:240:GLY:O	12:J4:241:THR:OG1	2.28	0.43
16:N2:391:LYS:O	16:N2:394:THR:OG1	2.33	0.43
17:O4:111:TYR:CZ	18:P4:321:ILE:CG1	3.01	0.43
17:O4:156:ILE:CG2	17:O4:157:THR:N	2.81	0.43
21:S3:407:LEU:HD11	21:S3:417:ALA:HB1	2.00	0.43
22:T1:767:MET:HE3	22:T1:767:MET:HB3	1.92	0.43
22:T1:816:LYS:CE	31:c5:85:ARG:NH1	2.77	0.43
23:U1:172:LYS:CD	31:c1:506:HIS:C	2.79	0.43
23:U2:81:LEU:HD12	23:U2:350:VAL:HG12	2.01	0.43
23:U3:81:LEU:HD12	23:U3:350:VAL:HG12	2.01	0.43
23:U4:81:LEU:HD12	23:U4:350:VAL:HG12	2.01	0.43
24:V2:400:LEU:HB3	24:V2:426:TYR:OH	2.18	0.43
24:V4:168:LYS:HE2	25:W4:45:LEU:HB2	2.01	0.43
25:W2:63:HIS:CD2	25:W2:64:PRO:HD2	2.53	0.43
25:W3:35:ILE:HB	25:W3:47:ASP:HB2	2.00	0.43
26:X2:367:SER:HB2	34:i:424:LEU:HD11	1.47	0.43
26:X3:335:PHE:O	26:X3:339:ILE:HG13	2.19	0.43
27:Y1:31:GLN:OE1	27:Y1:52:ARG:NH1	2.50	0.43
27:Y1:131:ASP:OD2	27:Y1:135:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB2	1.88	0.43
28:Z2:446:LEU:HD23	28:Z2:446:LEU:HA	1.88	0.43
28:Z2:524:VAL:H	30:b2:237:LEU:C	2.26	0.43
28:Z3:352:ILE:HD13	28:Z3:471:ILE:HG12	1.99	0.43
28:Z3:438:GLU:HB2	30:b3:333:HIS:CE1	2.48	0.43
28:Z3:601:PHE:O	28:Z3:602:ILE:C	2.62	0.43
28:Z4:402:GLY:CA	30:b4:254:SER:HG	1.94	0.43
28:Z4:526:ARG:HD2	30:b4:240:LEU:HD22	2.00	0.43
29:a1:79:ASP:HB3	29:a1:137[B]:VAL:HG12	2.01	0.43
29:a2:286:LEU:HD23	29:a2:286:LEU:C	2.42	0.43
31:c3:468:THR:HG21	31:c3:478:SER:HB2	1.98	0.43
31:c5:322:ILE:O	31:c5:326:VAL:HG23	2.18	0.43
1:A1:1018:ASP:CG	6:D1:819:ASN:CB	2.91	0.43
1:A1:1203:TYR:N	2:A2:730:THR:C	2.76	0.43
1:A1:1399:ARG:CB	2:A2:884:ARG:CG	2.93	0.43
2:A2:1139:ILE:CG2	3:A5:135:PHE:CG	3.01	0.43
1:A3:1254:LEU:HA	3:A6:638:GLU:HG3	2.01	0.43
2:A4:792:VAL:CG1	3:A6:188:ALA:CB	2.96	0.43
2:A4:864:ARG:CD	6:D3:609:ILE:H	2.32	0.43
2:A4:873:PRO:O	6:D3:563:GLU:HB3	2.19	0.43
2:A4:951:GLU:HG2	3:A6:234:LEU:H	1.80	0.43
2:A4:958:LEU:HD23	4:B6:343:LYS:HD2	1.99	0.43
2:A4:1222:ALA:O	2:A4:1223:GLU:C	2.62	0.43
3:A5:186:ILE:O	5:C2:746:PRO:HD2	2.03	0.43
3:A6:445:THR:O	6:D3:730:ARG:NH1	2.33	0.43
6:D1:649:VAL:HG12	6:D1:660:LYS:HD2	2.01	0.43
6:D4:650:VAL:HB	6:D4:651:PRO:HD3	1.99	0.43
9:G1:252:LEU:CD2	17:O2:254:ARG:HH21	2.30	0.43
9:G2:256:GLN:HG2	17:O4:262:ASP:N	2.28	0.43
11:I1:952:LEU:CG	15:M1:599:ILE:HG12	2.48	0.43
11:I1:1021:ILE:HD11	16:N1:410:MET:SD	2.52	0.43
11:I1:1042:LEU:N	20:R1:170:LEU:HD11	2.34	0.43
11:I1:1666:THR:CG2	11:I2:1602:PHE:CD1	2.85	0.43
11:I2:938:CYS:HB2	17:O3:261:LYS:NZ	2.32	0.43
11:I2:949:CYS:SG	15:M3:602:MET:HE3	2.42	0.43
11:I2:982:GLN:N	15:M3:621:ARG:NH1	2.65	0.43
11:I2:1017:VAL:N	16:N3:409:ALA:O	2.18	0.43
11:I2:1033:PRO:N	15:M3:627:LEU:HD23	2.29	0.43
11:I2:1043:LEU:CA	16:N3:430:ARG:HD2	2.43	0.43
11:I2:1048:GLU:CG	17:O3:288:GLU:OE2	2.67	0.43
11:I4:1119:ARG:HH12	12:J4:240:GLY:HA3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:N4:433:GLU:OE2	20:R4:174:ARG:NH2	2.51	0.43
17:O4:99:LEU:O	17:O4:137:VAL:N	2.51	0.43
21:S2:1149:GLU:C	21:S2:1151:TYR:H	2.25	0.43
22:T1:741:ASP:OD2	31:c5:21:SER:OG	2.36	0.43
22:T2:917:ASP:OD1	22:T2:921:TYR:N	2.47	0.43
23:U1:19:LEU:HB2	31:c2:470:ARG:CD	2.47	0.43
23:U1:314:ILE:HD12	24:V1:309:LYS:CE	2.48	0.43
23:U2:23:LYS:HD2	23:U2:434:THR:HG21	2.01	0.43
23:U2:210:MET:SD	24:V2:333:ILE:HG23	2.59	0.43
23:U2:314:ILE:HD12	24:V2:309:LYS:CE	2.48	0.43
23:U4:210:MET:SD	24:V4:333:ILE:HG23	2.59	0.43
24:V2:311:ALA:HB1	24:V2:316:ASN:O	2.18	0.43
24:V3:393:GLY:O	24:V3:394:GLN:HB2	2.17	0.43
24:V3:394:GLN:HG2	24:V3:397:GLU:HB2	1.99	0.43
24:V4:365:SER:HB3	24:V4:368:GLU:HB2	2.01	0.43
26:X1:221:GLU:HA	26:X1:224:ILE:HG13	2.00	0.43
26:X2:308:ASN:CA	34:i:405:TYR:CB	2.96	0.43
26:X2:346:ILE:HD12	34:i:422:HIS:CD2	2.53	0.43
26:X2:363:TYR:CG	34:i:419:THR:CB	3.00	0.43
26:X2:368:LEU:HB2	34:i:438:LEU:CA	2.49	0.43
26:X3:141:ASN:N	26:X3:141:ASN:HD22	2.15	0.43
26:X4:285:VAL:O	26:X4:289:ILE:HG13	2.18	0.43
27:Y2:107:SER:HA	27:Y2:135:ARG:HH21	1.83	0.43
27:Y3:107:SER:HA	27:Y3:135:ARG:HH21	1.83	0.43
28:Z1:352:ILE:HD13	28:Z1:471:ILE:HG12	1.99	0.43
28:Z1:534:ASP:HA	28:Z1:537:THR:OG1	2.18	0.43
28:Z1:539:GLU:CB	30:b1:164:CYS:C	2.79	0.43
28:Z2:539:GLU:CB	30:b2:164:CYS:C	2.79	0.43
28:Z3:499:SER:O	28:Z3:500:GLU:C	2.60	0.43
29:a4:79:ASP:HB3	29:a4:137[B]:VAL:HG12	2.01	0.43
30:b2:322:HIS:HA	30:b2:323:PRO:HD3	1.83	0.43
30:b3:216:LEU:HD12	30:b3:216:LEU:HA	1.78	0.43
30:b4:115:ILE:HB	30:b4:123:THR:HB	2.01	0.43
31:c2:517:LEU:HB3	31:c2:518:PRO:HD3	2.00	0.43
31:c2:606:TRP:CE3	31:c2:650:ALA:HB2	2.54	0.43
31:c3:139:LEU:HD11	31:c3:149:LYS:CD	2.49	0.43
31:c3:571:GLN:NE2	31:c3:633:PHE:O	2.45	0.43
31:c4:322:ILE:O	31:c4:326:VAL:HG23	2.18	0.43
31:c5:411:VAL:O	31:c5:411:VAL:HG22	2.18	0.43
33:h:291:ASP:N	33:h:292:PRO:HD3	2.33	0.43
2:A2:215:ILE:HG21	2:A2:272:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:780:GLU:HB3	6:D1:679:ILE:HD11	1.72	0.43
2:A2:968:SER:CB	6:D1:201:LEU:C	2.90	0.43
2:A2:1249:PHE:N	2:A2:1250:PRO:CD	2.81	0.43
1:A3:1017:THR:HG21	1:A3:1048:ARG:NH1	2.33	0.43
1:A3:1169:LEU:HB3	3:A6:590:SER:O	2.18	0.43
1:A3:1186:TRP:N	3:A6:639:ASN:HA	2.05	0.43
1:A3:1195:PHE:CD2	3:A6:677:ALA:N	2.87	0.43
2:A4:552:PHE:N	3:A6:107:SER:O	2.49	0.43
2:A4:791:ALA:O	3:A6:247:ASP:OD1	2.31	0.43
2:A4:802:TYR:HB2	3:A6:380:ALA:O	2.17	0.43
2:A4:808:GLN:HB2	3:A6:319:TYR:CD2	2.54	0.43
2:A4:871:ASN:C	2:A4:873:PRO:HD2	2.43	0.43
3:A5:153:ILE:CG2	5:C2:739:MET:HE1	2.46	0.43
3:A5:234:LEU:HB2	5:C2:737:LYS:CB	2.48	0.43
3:A5:995:VAL:C	11:I5:58:ALA:CA	2.67	0.43
3:A6:115:SER:HB3	6:D3:683:LYS:HG2	1.99	0.43
3:A6:485:ASN:HA	6:D3:673:ARG:HA	1.72	0.43
3:A6:1415:PHE:CB	28:Z4:996:LYS:O	2.61	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:HD11	2.00	0.43
6:D2:584:LEU:HD22	6:D2:609:ILE:HD11	2.01	0.43
7:E4:94:ILE:HG23	7:E4:94:ILE:O	2.19	0.43
11:I1:480:ASP:OD1	11:I1:481:ALA:N	2.52	0.43
11:I1:840:LEU:HB2	17:O1:243:LEU:CB	2.22	0.43
11:I1:842:ASN:C	15:M1:591:ASP:HB2	2.43	0.43
11:I1:1066:LEU:HB2	16:N1:430:ARG:CD	2.10	0.43
11:I1:1067:PHE:CG	16:N1:432:TYR:CA	2.91	0.43
11:I2:947:LEU:HG	16:N3:408:MET:N	2.21	0.43
11:I2:983:LEU:O	15:M3:613:ASP:C	2.54	0.43
11:I2:1031:ALA:CA	20:R3:173:LEU:O	2.67	0.43
11:I2:1279:THR:N	11:I2:1280:PRO:CD	2.82	0.43
11:I5:352:ASN:OD1	11:I5:353:LEU:N	2.52	0.43
16:N3:429:GLU:N	16:N3:429:GLU:OE2	2.52	0.43
17:O4:156:ILE:HG22	17:O4:157:THR:N	2.34	0.43
21:S3:946:LEU:HD11	22:T3:898:ARG:HG2	1.99	0.43
21:S4:615:ILE:O	21:S4:620:LEU:CB	2.66	0.43
23:U1:81:LEU:HD12	23:U1:350:VAL:HG12	2.01	0.43
23:U2:390:THR:O	23:U2:394:ILE:HG12	2.19	0.43
23:U2:430:PRO:HA	31:c4:458:LYS:O	2.18	0.43
23:U2:432:TYR:HD2	31:c4:539:ILE:HD12	1.49	0.43
23:U3:278:GLN:H	25:W4:192:GLN:CD	2.26	0.43
24:V2:365:SER:HB3	24:V2:368:GLU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:400:LEU:HB3	24:V4:426:TYR:OH	2.18	0.43
24:V4:513:MET:HG2	24:V4:541:ALA:HB2	1.99	0.43
25:W3:52:HIS:CE1	25:W3:80:LEU:HD12	2.53	0.43
25:W4:273:GLY:C	25:W4:275:ASP:H	2.25	0.43
26:X2:215:SER:HB2	26:X2:390:TRP:CZ2	2.54	0.43
26:X2:283:ASP:HB2	34:i:479:THR:HG1	1.83	0.43
26:X2:313:LEU:C	34:i:400:LYS:HZ2	2.00	0.43
26:X2:313:LEU:HB2	34:i:471:ILE:HG21	1.98	0.43
26:X2:364:TYR:N	34:i:422:HIS:HD2	2.11	0.43
26:X3:285:VAL:O	26:X3:289:ILE:HG13	2.18	0.43
28:Z1:177:PHE:HD1	28:Z1:183:LEU:HD22	1.84	0.43
28:Z2:438:GLU:OE1	30:b2:333:HIS:NE2	2.46	0.43
28:Z4:352:ILE:HD13	28:Z4:471:ILE:HG12	1.99	0.43
28:Z4:427:LEU:HD13	28:Z4:442:TYR:CE1	2.53	0.43
28:Z4:601:PHE:O	28:Z4:602:ILE:C	2.61	0.43
30:b1:25:SER:HB2	30:b1:77:SER:HA	2.01	0.43
30:b1:328:TYR:CE1	30:b1:343:ASN:HB2	2.54	0.43
30:b4:25:SER:HB2	30:b4:77:SER:HA	2.01	0.43
31:c1:139:LEU:HD11	31:c1:149:LYS:CD	2.49	0.43
31:c5:285:MET:HE1	31:c5:346:MET:HE2	2.00	0.43
40:m1:12:UNK:C	40:m1:14:UNK:H	2.31	0.43
1:A1:773:PHE:CZ	1:A1:818:LEU:HD12	2.48	0.43
1:A1:1401:VAL:H	2:A2:884:ARG:HH12	1.61	0.43
2:A2:225:THR:HG23	6:D1:709:ARG:HB2	0.95	0.43
2:A2:976:LEU:HA	6:D1:502:LEU:HB2	2.01	0.43
2:A2:984:ALA:HB2	6:D1:553:PHE:HD2	1.79	0.43
2:A2:1135:ARG:NH1	3:A5:157:TRP:C	2.77	0.43
1:A3:1172:HIS:HB3	3:A6:586:CYS:O	2.18	0.43
1:A3:1257:VAL:CG1	3:A6:618:ALA:C	2.92	0.43
1:A3:1271:ILE:HD13	3:A6:552:PHE:H	1.83	0.43
2:A4:89:LEU:HD22	3:A6:404:LEU:HB3	1.95	0.43
2:A4:203:ILE:HD11	4:B4:352:ALA:HA	2.00	0.43
2:A4:615:LEU:O	3:A6:498:ARG:HD2	2.18	0.43
2:A4:693:VAL:H	3:A6:316:ARG:NH2	2.16	0.43
2:A4:705:ILE:N	3:A6:464:PRO:CD	2.64	0.43
2:A4:710:LEU:HA	3:A6:462:LEU:HD13	1.99	0.43
2:A4:869:ALA:N	6:D3:570:VAL:CG2	2.81	0.43
2:A4:870:HIS:HD2	6:D3:548:LEU:O	2.02	0.43
2:A4:875:LEU:CD1	6:D3:567:LEU:CA	2.92	0.43
3:A5:1029:ILE:HB	11:I5:68:ILE:H	1.67	0.43
3:A5:1397:LEU:HA	28:Z2:911:GLU:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D2:650:VAL:HB	6:D2:651:PRO:HD3	1.99	0.43
6:D3:649:VAL:HG12	6:D3:660:LYS:HD2	2.01	0.43
6:D4:749:LEU:CD2	6:D4:792:LEU:HD22	2.48	0.43
11:I1:952:LEU:CA	16:N1:403:VAL:HG11	2.30	0.43
11:I1:1021:ILE:CG1	16:N1:410:MET:CA	2.88	0.43
11:I1:1050:SER:HB2	17:O1:290:TYR:HB3	1.38	0.43
11:I2:1067:PHE:CD1	16:N3:430:ARG:O	2.70	0.43
11:I4:352:ASN:OD1	11:I4:353:LEU:N	2.52	0.43
17:O3:102:LYS:CD	18:P3:322:LYS:NZ	2.60	0.43
17:O3:148:ARG:NH2	18:P3:325:ILE:CG2	2.70	0.43
20:R2:147:LEU:O	20:R2:151:LYS:N	2.52	0.43
21:S1:404:LEU:O	21:S1:405:CYS:HB2	2.18	0.43
21:S1:987:MET:HE1	21:S1:991:LYS:HE2	2.00	0.43
21:S2:953:LEU:HD23	21:S2:953:LEU:HA	1.87	0.43
21:S2:1052:LEU:HA	21:S2:1052:LEU:HD13	1.81	0.43
21:S3:1069:LEU:C	21:S3:1071:LEU:N	2.76	0.43
21:S4:407:LEU:HD11	21:S4:417:ALA:HB1	2.00	0.43
22:T1:822:LEU:HD21	22:T1:880:MET:HG3	2.01	0.43
22:T2:669:ARG:HA	22:T2:669:ARG:HD3	1.85	0.43
22:T2:781:THR:HG23	22:T2:783:THR:N	2.33	0.43
23:U1:106:GLU:O	23:U1:110:MET:HG2	2.18	0.43
23:U2:82:LEU:H	31:c4:553:LEU:CD2	2.05	0.43
23:U2:106:GLU:O	23:U2:110:MET:HG2	2.18	0.43
23:U4:106:GLU:O	23:U4:110:MET:HG2	2.18	0.43
24:V1:345:SER:HB3	24:V1:371:PHE:HE2	1.84	0.43
24:V3:344:TRP:C	24:V3:346:THR:H	2.27	0.43
25:W3:280:LEU:HB2	25:W3:292:ALA:O	2.19	0.43
26:X1:335:PHE:O	26:X1:339:ILE:HG13	2.19	0.43
26:X1:404:SER:OG	37:k2:450:HIS:CD2	2.68	0.43
26:X2:58:ILE:HG22	26:X2:59:GLU:N	2.33	0.43
26:X2:296:PRO:HG3	34:i:416:VAL:HG22	1.02	0.43
26:X2:305:GLU:H	34:i:325:VAL:HG11	1.84	0.43
26:X2:360:PHE:HB2	34:i:423:LYS:CG	2.38	0.43
26:X3:60:LYS:C	26:X3:62:GLY:N	2.77	0.43
27:Y4:7:GLY:C	27:Y4:34:LYS:HE3	2.42	0.43
28:Z3:295:ASN:ND2	28:Z3:329:TRP:O	2.52	0.43
28:Z4:527:SER:HA	30:b4:204:GLU:HB2	1.95	0.43
28:Z4:561:GLN:HG3	30:b4:236:THR:N	2.17	0.43
30:b1:160:VAL:HG11	30:b1:202:VAL:HG13	2.01	0.43
30:b2:10:LEU:HG	30:b2:379:SER:HA	2.01	0.43
31:c2:411:VAL:O	31:c2:411:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1399:ARG:HB2	2:A2:888:GLN:CD	2.44	0.43
1:A1:1400:SER:HA	2:A2:885:LEU:HD21	2.01	0.43
2:A2:987:LYS:HD3	6:D1:555:ARG:CZ	2.19	0.43
1:A3:1120:ASP:HB3	3:A6:596:ARG:HA	0.86	0.43
1:A3:1221:ILE:HD11	2:A4:618:ALA:HB2	2.01	0.43
1:A3:1236:GLN:HG3	3:A6:581:LYS:CB	2.34	0.43
2:A4:80:LYS:HE2	3:A6:386:ALA:HB3	2.01	0.43
2:A4:85:VAL:CG2	3:A6:405:PHE:CD1	3.01	0.43
2:A4:550:VAL:CG1	3:A6:362:PHE:HE1	2.32	0.43
2:A4:615:LEU:CD2	3:A6:101:TYR:CD2	3.01	0.43
2:A4:754:HIS:CE1	3:A6:537:ALA:CB	2.96	0.43
2:A4:870:HIS:HD1	6:D3:566:PHE:HA	1.83	0.43
2:A4:968:SER:HB2	6:D3:201:LEU:HA	2.01	0.43
3:A5:232:LEU:HG	5:C2:739:MET:N	2.19	0.43
3:A5:234:LEU:HA	5:C2:738:ASP:CA	2.23	0.43
3:A6:132:ASP:OD2	6:D3:606:LYS:C	2.39	0.43
3:A6:446:LEU:HG	6:D3:721:PRO:CA	2.45	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:CD1	2.49	0.43
6:D2:584:LEU:HD22	6:D2:609:ILE:CD1	2.49	0.43
6:D7:749:LEU:CD2	6:D7:792:LEU:HD22	2.48	0.43
9:G1:252:LEU:O	15:M2:602:MET:N	2.52	0.43
11:I1:846:ILE:HG21	17:O1:247:TRP:HZ2	1.67	0.43
11:I1:926:SER:HB3	15:M1:597:LYS:HZ1	1.00	0.43
11:I1:948:ALA:HB3	17:O1:252:VAL:O	2.18	0.43
11:I1:950:LEU:N	16:N1:407:ALA:HB2	2.32	0.43
11:I1:1034:ASP:HB2	16:N1:444:SER:OG	2.16	0.43
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD11	1.96	0.43
11:I1:1101:LEU:CD2	16:N1:432:TYR:CD1	3.01	0.43
11:I1:1119:ARG:HH12	12:J1:240:GLY:HA3	1.84	0.43
11:I1:1279:THR:N	11:I1:1280:PRO:CD	2.82	0.43
11:I2:847:THR:CG2	15:M3:594:LYS:NZ	2.72	0.43
11:I2:1122:ASN:O	11:I2:1126:HIS:ND1	2.42	0.43
11:I2:1546:TRP:O	12:J1:300:ILE:HG21	2.17	0.43
16:N2:433:GLU:OE2	20:R2:174:ARG:NH2	2.51	0.43
17:O3:98:TYR:HD2	17:O3:125:ALA:HB2	1.83	0.43
17:O3:99:LEU:O	17:O3:137:VAL:N	2.51	0.43
21:S1:219:SER:C	21:S1:220:PHE:CD1	2.97	0.43
21:S3:1119:LEU:O	21:S3:1121:GLU:N	2.52	0.43
21:S3:1120:PRO:CD	21:S3:1155:GLN:HE22	2.19	0.43
21:S4:404:LEU:O	21:S4:405:CYS:HB2	2.17	0.43
21:S4:1078:LEU:HD21	21:S4:1097:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:917:ASP:HB2	22:T1:918:PRO:CD	2.47	0.43
22:T4:712:PHE:HZ	22:T4:751:ARG:HD3	1.84	0.43
22:T4:822:LEU:HD21	22:T4:880:MET:HG3	2.01	0.43
23:U1:109:LEU:HD23	23:U1:298:ILE:HG13	2.00	0.43
23:U2:23:LYS:HD2	31:c4:532:TRP:HH2	1.83	0.43
23:U2:143:LYS:HG3	23:U2:144:TRP:N	2.32	0.43
23:U2:363:VAL:H	31:c4:545:PRO:HG3	1.83	0.43
23:U2:394:ILE:O	31:c4:555:VAL:HG23	2.09	0.43
23:U2:398:ILE:CG1	31:c4:531:TRP:CD2	3.01	0.43
23:U2:407:VAL:O	31:c4:542:LYS:CB	2.67	0.43
23:U3:77:LEU:HG	23:U3:125:TRP:CD2	2.54	0.43
24:V2:247:TYR:CE2	24:V2:260:LEU:HD13	2.54	0.43
24:V3:513:MET:HG2	24:V3:541:ALA:HB2	1.99	0.43
25:W2:280:LEU:HB2	25:W2:292:ALA:O	2.19	0.43
26:X1:60:LYS:C	26:X1:62:GLY:N	2.77	0.43
26:X2:292:LEU:CB	34:i:448:PHE:HE2	2.32	0.43
26:X2:306:TRP:O	34:i:404:ARG:CG	2.64	0.43
26:X2:310:VAL:HG12	34:i:401:CYS:CB	2.47	0.43
26:X2:315:GLN:CB	34:i:399:PRO:CA	2.97	0.43
26:X4:148:MET:HE3	26:X4:152:LEU:HG	2.00	0.43
28:Z1:601:PHE:O	28:Z1:602:ILE:C	2.62	0.43
28:Z2:177:PHE:HD1	28:Z2:183:LEU:HD22	1.84	0.43
30:b2:25:SER:HB2	30:b2:77:SER:HA	2.01	0.43
31:c1:373:VAL:HG21	31:c1:411:VAL:HB	2.01	0.43
31:c3:373:VAL:HG21	31:c3:411:VAL:HB	2.01	0.43
31:c5:139:LEU:HD11	31:c5:149:LYS:CD	2.49	0.43
31:c5:373:VAL:HG21	31:c5:411:VAL:HB	2.01	0.43
31:c5:606:TRP:CE3	31:c5:650:ALA:HB2	2.54	0.43
33:h:123:LEU:N	33:h:124:PRO:CD	2.82	0.43
33:h:248:ILE:HG21	33:h:248:ILE:HD13	1.68	0.43
1:A1:1200:ARG:CB	2:A2:727:ASN:HA	2.49	0.43
1:A1:1202:GLU:HA	2:A2:735:ALA:HB3	2.01	0.43
1:A1:1224:PRO:HG3	2:A2:731:ILE:HD12	1.97	0.43
2:A2:825:ARG:CD	6:D1:633:LYS:NZ	2.46	0.43
2:A2:977:VAL:HG21	6:D1:490:VAL:O	2.19	0.43
1:A3:1192:GLN:HA	3:A6:675:ALA:HB1	2.00	0.43
1:A3:1196:GLU:O	1:A3:1200:ARG:HD3	2.19	0.43
1:A3:1196:GLU:O	2:A4:730:THR:N	2.52	0.43
1:A3:1311:ARG:CD	3:A6:712:THR:CA	2.78	0.43
2:A4:86:ASN:OD1	3:A6:394:LEU:C	2.32	0.43
2:A4:88:THR:CG2	3:A6:102:CYS:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:710:LEU:C	3:A6:478:ASP:HB3	2.44	0.43
2:A4:714:GLN:C	3:A6:491:VAL:O	2.59	0.43
2:A4:859:GLN:HB2	3:A6:131:PRO:HD2	1.97	0.43
2:A4:872:ALA:N	2:A4:873:PRO:CD	2.81	0.43
3:A5:889:VAL:HB	3:A5:892:SER:OG	2.18	0.43
3:A5:1003:PHE:CD2	11:I5:62:GLU:OE1	2.71	0.43
3:A5:1312:ARG:HH22	28:Z2:838:GLN:CA	2.29	0.43
3:A6:199:PHE:HA	4:B6:353:LEU:HA	2.00	0.43
6:D3:815:GLU:CD	6:D3:815:GLU:C	2.87	0.43
6:D4:445:LEU:HD12	6:D4:446:GLU:N	2.33	0.43
6:D4:584:LEU:HD22	6:D4:609:ILE:HD11	2.00	0.43
6:D5:584:LEU:HD22	6:D5:609:ILE:HD11	2.01	0.43
6:D5:649:VAL:HG12	6:D5:660:LYS:HD2	2.01	0.43
6:D6:646:LEU:HD22	6:D6:696:ILE:HD11	1.98	0.43
9:G1:254:ASN:ND2	17:O2:261:LYS:NZ	2.66	0.43
11:I1:888:GLU:CG	17:O1:242:ARG:HH12	2.26	0.43
11:I1:920:PHE:HB2	17:O1:243:LEU:HD21	1.91	0.43
11:I1:952:LEU:HD13	16:N1:400:LEU:CD2	2.22	0.43
11:I1:989:GLY:HA3	15:M1:614:ASP:CG	2.37	0.43
11:I1:1048:GLU:OE2	17:O1:288:GLU:HG2	2.19	0.43
11:I1:1662:ARG:HB3	11:I2:1603:ARG:NH1	2.33	0.43
11:I2:72:GLU:N	11:I2:72:GLU:OE1	2.52	0.43
11:I2:833:PHE:CD2	17:O3:238:ALA:HA	2.53	0.43
11:I2:900:ARG:H	17:O3:232:LYS:HB3	1.80	0.43
11:I2:977:ASN:H	20:R3:147:LEU:C	2.26	0.43
11:I2:990:GLU:O	17:O3:271:GLU:CA	2.59	0.43
11:I2:1038:ILE:HG12	15:M3:620:VAL:HG12	1.28	0.43
11:I2:1114:VAL:HG11	16:N3:432:TYR:CD2	2.54	0.43
11:I3:1218:ASP:O	11:I3:1221:ASN:ND2	2.49	0.43
11:I4:506:THR:HG23	11:I4:598:MET:HE3	2.01	0.43
11:I5:1182:GLN:CG	12:J5:245:GLU:OE2	2.51	0.43
16:N4:429:GLU:N	16:N4:429:GLU:OE2	2.51	0.43
17:O1:156:ILE:HG22	17:O1:157:THR:N	2.33	0.43
17:O2:98:TYR:HD2	17:O2:125:ALA:HB2	1.83	0.43
17:O2:156:ILE:CG2	17:O2:157:THR:N	2.81	0.43
19:Q2:204[B]:MSE:HE2	19:Q2:211:MSE:HB2	2.00	0.43
21:S1:1119:LEU:O	21:S1:1121:GLU:N	2.52	0.43
21:S2:404:LEU:O	21:S2:405:CYS:HB2	2.18	0.43
21:S3:686:ALA:CB	21:S4:1153:GLN:N	2.70	0.43
21:S4:219:SER:C	21:S4:220:PHE:CD1	2.97	0.43
21:S4:987:MET:HE1	21:S4:991:LYS:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:698:LYS:HE2	22:T1:845:GLN:NE2	2.34	0.43
22:T2:698:LYS:HE2	22:T2:845:GLN:NE2	2.34	0.43
22:T3:774:PRO:HG2	22:T3:792:GLU:HA	2.00	0.43
22:T4:814:LYS:HB3	22:T4:814:LYS:HE2	1.79	0.43
23:U1:210:MET:SD	24:V1:333:ILE:HG23	2.59	0.43
23:U1:341:HIS:HA	23:U1:342:PRO:HD3	1.89	0.43
23:U2:42:PHE:CD1	31:c4:478:SER:CB	3.01	0.43
23:U2:382:LYS:HA	23:U2:383:PRO:HD3	1.77	0.43
23:U2:391:HIS:CD2	31:c4:476:PRO:C	2.97	0.43
23:U2:428:ASN:HD22	31:c4:465:PRO:HB3	0.89	0.43
23:U3:433:ALA:O	23:U3:435:PHE:N	2.45	0.43
23:U4:385:LEU:O	23:U4:389:VAL:HG23	2.18	0.43
24:V1:311:ALA:HB1	24:V1:316:ASN:O	2.18	0.43
24:V1:416:ASP:HA	24:V1:443:THR:CG2	2.44	0.43
24:V3:168:LYS:HE2	25:W3:45:LEU:HB2	2.00	0.43
24:V3:203:ARG:NE	24:V3:210:GLN:HB2	2.34	0.43
24:V4:311:ALA:HB1	24:V4:316:ASN:O	2.18	0.43
24:V4:344:TRP:C	24:V4:346:THR:H	2.27	0.43
26:X2:148:MET:HE3	26:X2:152:LEU:HG	2.00	0.43
26:X2:286:SER:O	34:i:492:TRP:CH2	2.70	0.43
26:X2:328:LEU:HA	26:X2:331:TYR:HB2	2.00	0.43
26:X2:336:LEU:HD11	34:i:477:GLY:C	2.43	0.43
26:X4:141:ASN:N	26:X4:141:ASN:HD22	2.16	0.43
26:X4:243:GLN:O	26:X4:247:LYS:HG3	2.19	0.43
28:Z1:508:LYS:O	28:Z1:512:THR:HG23	2.19	0.43
28:Z2:407:GLY:C	30:b2:251:ILE:CD1	2.77	0.43
28:Z2:427:LEU:HD13	28:Z2:442:TYR:CE1	2.53	0.43
28:Z2:549:LYS:CB	30:b2:182:PRO:CD	2.92	0.43
28:Z3:526:ARG:HD2	30:b3:240:LEU:HD22	2.00	0.43
28:Z3:534:ASP:HA	28:Z3:537:THR:OG1	2.18	0.43
28:Z3:558:LEU:HD23	30:b3:236:THR:HB	2.01	0.43
30:b1:10:LEU:HG	30:b1:379:SER:HA	2.01	0.43
30:b1:279:ARG:NH1	30:b1:327:ASP:OD1	2.43	0.43
30:b3:25:SER:HB2	30:b3:77:SER:HA	2.01	0.43
31:c3:285:MET:HE1	31:c3:346:MET:HE2	2.00	0.43
31:c5:229:ARG:O	31:c5:233:THR:HG23	2.19	0.43
33:h:239:PHE:CD1	33:h:264:LEU:HD11	2.54	0.43
1:A1:1200:ARG:HG2	2:A2:727:ASN:OD1	2.18	0.43
1:A1:1333:ARG:HA	6:D1:637:LYS:HD2	2.01	0.43
2:A2:687:LEU:HD23	2:A2:688:TRP:N	2.34	0.43
2:A2:985:ALA:CA	6:D1:498:GLU:CA	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:HB2	3:A5:176:LEU:HB3	2.00	0.43
1:A3:1018:ASP:OD2	6:D3:819:ASN:HA	2.05	0.43
1:A3:1282:PHE:CA	3:A6:625:LEU:HB3	2.44	0.43
1:A3:1393:THR:OG1	3:A6:229:SER:CA	2.61	0.43
2:A4:90:GLN:HB2	3:A6:407:SER:C	2.42	0.43
2:A4:171:HIS:CD2	6:D3:708:ASP:CG	2.95	0.43
2:A4:619:CYS:CB	3:A6:512:GLU:N	2.82	0.43
2:A4:646:ILE:HG13	3:A6:501:VAL:HG22	1.94	0.43
2:A4:711:VAL:N	3:A6:462:LEU:HD21	2.18	0.43
2:A4:721:ARG:HG2	3:A6:475:TYR:HE1	1.01	0.43
2:A4:774:VAL:HB	3:A6:479:VAL:H	1.84	0.43
2:A4:858:ALA:HB2	3:A6:174:PRO:N	2.34	0.43
3:A5:999:SER:HB3	11:I5:64:LYS:CE	2.48	0.43
6:D3:749:LEU:CD2	6:D3:792:LEU:HD22	2.48	0.43
6:D5:815:GLU:C	6:D5:815:GLU:CD	2.87	0.43
6:D7:584:LEU:HD22	6:D7:609:ILE:CD1	2.49	0.43
7:E1:94:ILE:HG23	7:E1:94:ILE:O	2.19	0.43
9:G1:258:LYS:O	17:O2:256:TYR:CG	2.68	0.43
9:G1:260:THR:CG2	17:O2:259:ASP:HB3	2.42	0.43
11:I1:352:ASN:OD1	11:I1:353:LEU:N	2.52	0.43
11:I1:506:THR:HG23	11:I1:598:MET:HE3	2.01	0.43
11:I1:849:LEU:HD12	17:O1:247:TRP:CZ3	2.53	0.43
11:I1:926:SER:HA	20:R1:156:GLY:H	1.78	0.43
11:I1:961:ARG:HB2	16:N1:392:THR:HG22	1.41	0.43
11:I1:1049:LEU:HB2	20:R1:146:LEU:CG	2.49	0.43
11:I2:506:THR:HG23	11:I2:598:MET:HE3	2.01	0.43
11:I2:797:LEU:HD21	17:O3:244:GLU:HB2	2.00	0.43
11:I2:873:ILE:C	17:O3:255:GLY:HA2	2.43	0.43
11:I2:884:LEU:HD13	16:N3:396:ILE:HG23	1.56	0.43
11:I2:925:LEU:CD2	20:R3:163:LEU:HB3	2.49	0.43
11:I2:958:THR:CA	16:N3:399:HIS:CD2	3.02	0.43
11:I2:1037:THR:CB	15:M3:624:ASN:CG	2.92	0.43
11:I3:72:GLU:N	11:I3:72:GLU:OE1	2.52	0.43
11:I3:1302:ARG:O	11:I3:1306:LEU:HD13	2.19	0.43
11:I4:480:ASP:OD1	11:I4:481:ALA:N	2.52	0.43
11:I4:1218:ASP:O	11:I4:1221:ASN:ND2	2.49	0.43
11:I5:1218:ASP:O	11:I5:1221:ASN:ND2	2.49	0.43
11:I5:1238:LYS:HD2	29:a2:27:GLN:HG3	2.00	0.43
21:S2:1143:VAL:HA	21:S2:1146:ALA:CB	2.41	0.43
22:T1:755:GLU:CD	31:c5:58:ARG:O	2.62	0.43
22:T3:810:THR:OG1	22:T3:868:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:24:ILE:HD11	31:c2:468:THR:H	1.84	0.43
23:U1:26:GLN:HG3	31:c2:563:ARG:HE	1.84	0.43
23:U1:434:THR:CG2	31:c2:479:ILE:H	2.20	0.43
23:U3:390:THR:O	23:U3:394:ILE:HG12	2.19	0.43
23:U4:390:THR:O	23:U4:394:ILE:HG12	2.19	0.43
24:V2:216:LEU:O	24:V2:217:LEU:HD23	2.19	0.43
24:V2:394:GLN:HG2	24:V2:397:GLU:HB2	2.00	0.43
26:X2:192:LEU:HD12	34:i:440:GLU:CA	2.48	0.43
26:X2:333:GLU:CG	34:i:475:ILE:CA	2.67	0.43
26:X4:57:PRO:HB3	26:X4:91:TYR:OH	2.19	0.43
26:X4:335:PHE:O	26:X4:339:ILE:HG13	2.19	0.43
28:Z1:295:ASN:ND2	28:Z1:329:TRP:O	2.52	0.43
28:Z1:427:LEU:HD13	28:Z1:442:TYR:CE1	2.54	0.43
28:Z1:524:VAL:O	30:b1:236:THR:CG2	2.65	0.43
28:Z2:410:ASN:N	30:b2:251:ILE:HD11	2.33	0.43
28:Z2:658:HIS:HA	28:Z2:661:GLN:OE1	2.18	0.43
28:Z4:291:LEU:HA	28:Z4:292:PRO:HD3	1.76	0.43
28:Z4:295:ASN:ND2	28:Z4:329:TRP:O	2.52	0.43
28:Z4:386:LEU:HD23	28:Z4:621:GLN:HA	2.01	0.43
29:a2:16:THR:HG22	29:a2:34:THR:HG22	2.00	0.43
30:b2:328:TYR:CE1	30:b2:343:ASN:HB2	2.54	0.43
31:c1:606:TRP:CE3	31:c1:650:ALA:HB2	2.54	0.43
31:c2:139:LEU:HD11	31:c2:149:LYS:CD	2.49	0.43
31:c3:351:LEU:HD13	31:c3:422:TYR:CZ	2.54	0.43
31:c4:139:LEU:HD11	31:c4:149:LYS:CD	2.49	0.43
31:c4:373:VAL:HG21	31:c4:411:VAL:HB	2.01	0.43
32:g:244:LEU:HD21	32:g:303:HIS:HB3	2.01	0.43
2:A2:870:HIS:CD2	6:D1:551:PHE:CA	2.88	0.43
2:A2:980:ARG:NH1	6:D1:524:ARG:C	2.74	0.43
2:A2:1132:PRO:CG	3:A5:160:ILE:HG13	2.49	0.43
1:A3:890:ALA:C	1:A3:892:SER:H	2.27	0.43
1:A3:1204:TRP:CZ2	2:A4:676:LEU:HD12	2.53	0.43
1:A3:1233:GLN:CG	3:A6:575:LEU:HA	2.38	0.43
1:A3:1274:ASP:CG	3:A6:558:GLU:HG3	2.44	0.43
1:A3:1311:ARG:CZ	3:A6:715:GLU:OE2	2.51	0.43
2:A4:90:GLN:HG3	3:A6:406:LEU:HB3	2.00	0.43
2:A4:670:SER:OG	3:A6:542:LEU:HD23	2.03	0.43
2:A4:753:GLU:CG	3:A6:543:GLY:N	2.37	0.43
2:A4:780:GLU:CG	3:A6:524:ARG:CA	2.85	0.43
2:A4:801:THR:N	3:A6:330:LEU:HD23	2.26	0.43
2:A4:820:LYS:CB	3:A6:148:GLY:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:875:LEU:CD1	6:D3:567:LEU:HD21	2.29	0.43
2:A4:875:LEU:CD1	6:D3:567:LEU:HA	2.48	0.43
2:A4:974:PRO:HG2	6:D3:495:VAL:C	2.10	0.43
3:A5:1374:ALA:N	28:Z2:824:PHE:HA	2.27	0.43
3:A6:1413:SER:C	28:Z4:994:ILE:CA	2.87	0.43
5:C1:732:LYS:HG2	11:I1:1228:GLU:CD	2.43	0.43
6:D6:749:LEU:CD2	6:D6:792:LEU:HD22	2.48	0.43
8:F1:215:ASP:OD1	8:F1:218:ARG:NH2	2.52	0.43
8:F1:1392:LEU:N	8:F1:1393:PRO:CD	2.82	0.43
11:I1:1018:LYS:H	16:N1:413:VAL:N	2.17	0.43
11:I2:947:LEU:N	17:O3:260:LEU:HD22	2.30	0.43
11:I2:952:LEU:HA	16:N3:403:VAL:HG21	1.98	0.43
11:I2:1012:GLY:O	16:N3:412:ASN:HA	2.18	0.43
11:I2:1033:PRO:HB3	20:R3:177:LEU:HB3	1.62	0.43
11:I2:1046:HIS:C	17:O3:284:LYS:HG2	2.42	0.43
11:I2:1302:ARG:O	11:I2:1306:LEU:HD13	2.19	0.43
11:I2:1311:LEU:C	11:I2:1311:LEU:HD13	2.44	0.43
11:I3:352:ASN:OD1	11:I3:353:LEU:N	2.51	0.43
11:I3:480:ASP:OD1	11:I3:481:ALA:N	2.52	0.43
11:I3:1119:ARG:HH12	12:J3:240:GLY:HA3	1.83	0.43
11:I4:1302:ARG:O	11:I4:1306:LEU:HD13	2.19	0.43
21:S1:536:HIS:O	21:S1:537:ALA:C	2.62	0.43
21:S1:1119:LEU:HB2	21:S1:1155:GLN:CD	2.43	0.43
21:S2:382:MET:HB3	21:S2:382:MET:HE2	1.63	0.43
21:S4:277:VAL:HB	21:S4:286:PHE:CZ	2.54	0.43
23:U1:77:LEU:HG	23:U1:125:TRP:CD2	2.54	0.43
23:U1:405:GLU:C	31:c2:548:VAL:CG2	2.48	0.43
23:U1:409:LYS:NZ	31:c2:538:LEU:CD2	2.81	0.43
23:U3:22:PHE:CG	23:U3:38:ILE:HD11	2.54	0.43
23:U3:314:ILE:HD12	24:V3:309:LYS:CE	2.48	0.43
24:V3:247:TYR:CE2	24:V3:260:LEU:HD13	2.54	0.43
24:V4:526:HIS:C	24:V4:528:LEU:H	2.26	0.43
25:W1:280:LEU:HB2	25:W1:292:ALA:O	2.19	0.43
26:X1:57:PRO:HB3	26:X1:91:TYR:OH	2.19	0.43
26:X2:367:SER:N	34:i:366:PHE:CE1	2.86	0.43
26:X3:215:SER:HB2	26:X3:390:TRP:CZ2	2.53	0.43
26:X3:508:LEU:HG	26:X3:522:MET:HE3	2.01	0.43
26:X4:149:GLU:HG3	26:X4:186:ARG:NE	2.34	0.43
27:Y1:303:HIS:HA	27:Y1:325:ASP:OD2	2.19	0.43
27:Y4:76:SER:HB3	27:Y4:78:ASP:OD1	2.19	0.43
28:Z3:218:SER:OG	28:Z3:219:ASP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:386:LEU:HD23	28:Z3:621:GLN:HA	2.01	0.43
28:Z3:531:LYS:HZ1	30:b3:166:LEU:CB	2.13	0.43
28:Z3:532:PHE:N	30:b3:184:SER:CA	2.77	0.43
28:Z4:440:GLU:OE2	30:b4:313:PHE:C	2.62	0.43
28:Z4:554:PHE:HD1	30:b4:232:PRO:HB2	1.71	0.43
29:a1:16:THR:HG22	29:a1:34:THR:HG22	2.00	0.43
30:b3:19:THR:HG22	30:b3:362:ASP:HB3	2.01	0.43
31:c1:568:HIS:ND1	31:c1:568:HIS:O	2.52	0.43
31:c3:568:HIS:ND1	31:c3:568:HIS:O	2.52	0.43
31:c4:606:TRP:CE3	31:c4:650:ALA:HB2	2.54	0.43
36:k1:362:ILE:HA	36:k1:365:TRP:HD1	1.84	0.43
41:m2:8:UNK:O	41:m2:12:UNK:N	2.51	0.43
1:A1:1200:ARG:CB	2:A2:727:ASN:C	2.83	0.42
1:A1:1224:PRO:CB	2:A2:731:ILE:CD1	2.82	0.42
2:A2:868:GLN:CA	6:D1:584:LEU:CD2	2.96	0.42
2:A2:1152:ASP:CG	3:A5:168:ASP:O	2.62	0.42
1:A3:1190:ILE:N	3:A6:641:ALA:HB1	2.34	0.42
1:A3:1220:PRO:HB3	2:A4:646:ILE:HG23	2.01	0.42
1:A3:1235:ILE:O	3:A6:581:LYS:O	2.29	0.42
2:A4:90:GLN:CB	3:A6:428:GLN:HB3	1.97	0.42
2:A4:549:ALA:O	3:A6:432:VAL:CB	2.58	0.42
2:A4:692:VAL:O	3:A6:466:ALA:CA	2.67	0.42
2:A4:715:GLU:CD	3:A6:516:TRP:NE1	2.64	0.42
2:A4:781:ARG:CD	6:D3:633:LYS:HZ1	2.28	0.42
2:A4:798:LYS:HB3	3:A6:314:TRP:HE1	1.84	0.42
2:A4:810:PRO:CA	3:A6:251:ILE:O	2.63	0.42
2:A4:818:LEU:HD13	3:A6:526:ILE:HG23	1.75	0.42
2:A4:897:ASN:C	3:A6:165:PHE:CD1	2.73	0.42
2:A4:975:GLU:HA	6:D3:499:LEU:CA	2.49	0.42
2:A4:976:LEU:HD13	6:D3:472:PHE:HE2	0.64	0.42
2:A4:976:LEU:HD22	6:D3:245:ARG:NH1	2.22	0.42
2:A4:985:ALA:HB3	6:D3:497:PHE:CA	2.37	0.42
3:A5:1399:ARG:CB	28:Z2:912:ASP:CB	2.97	0.42
6:D4:584:LEU:HD22	6:D4:609:ILE:CD1	2.49	0.42
6:D7:649:VAL:HG12	6:D7:660:LYS:HD2	2.01	0.42
8:F1:1093:LEU:CG	17:O2:241:SER:CA	2.80	0.42
8:F1:1261:TYR:O	17:O2:262:ASP:HB2	2.18	0.42
8:F2:1091:SER:O	17:O4:244:GLU:HB2	2.15	0.42
11:I1:928:LEU:CG	20:R1:155:GLU:CG	2.91	0.42
11:I1:931:VAL:O	15:M1:604:ASN:HB2	2.17	0.42
11:I1:1017:VAL:CG2	17:O1:260:LEU:HD21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1024:PHE:CG	16:N1:406:HIS:CG	3.07	0.42
11:I1:1037:THR:CA	15:M1:624:ASN:CG	2.63	0.42
11:I1:1048:GLU:OE2	17:O1:288:GLU:HG3	2.18	0.42
11:I1:1059:PRO:CD	17:O1:277:GLU:N	2.71	0.42
11:I1:1302:ARG:O	11:I1:1306:LEU:HD13	2.19	0.42
11:I1:1311:LEU:C	11:I1:1311:LEU:HD13	2.44	0.42
11:I1:1635:HIS:CD2	11:I2:1674:HIS:CD2	3.06	0.42
11:I2:763:ASP:OD1	11:I2:835:ARG:NE	2.48	0.42
11:I2:883:ALA:HA	17:O3:246:LEU:HB2	1.19	0.42
11:I2:914:ASN:O	15:M3:588:MET:HB3	2.17	0.42
11:I2:925:LEU:HG	15:M3:593:ALA:CA	2.49	0.42
11:I2:1042:LEU:C	16:N3:430:ARG:NH2	2.73	0.42
11:I2:1061:ASP:HB2	17:O3:278:GLU:CA	2.45	0.42
11:I3:130:LYS:NZ	11:I3:237:GLU:OE1	2.45	0.42
11:I3:1277:LEU:C	26:X1:519:ILE:HG22	2.06	0.42
11:I4:1279:THR:N	11:I4:1280:PRO:CD	2.82	0.42
11:I5:1302:ARG:O	11:I5:1306:LEU:HD13	2.19	0.42
21:S1:81:VAL:CG1	21:S1:471:VAL:HG11	2.49	0.42
21:S1:382:MET:HE2	21:S1:382:MET:HB3	1.63	0.42
21:S1:407:LEU:HD11	21:S1:417:ALA:HB1	2.00	0.42
21:S2:277:VAL:HB	21:S2:286:PHE:CZ	2.54	0.42
21:S2:536:HIS:O	21:S2:537:ALA:C	2.62	0.42
21:S2:1119:LEU:O	21:S2:1121:GLU:N	2.52	0.42
21:S3:678:GLU:HA	21:S4:1145:LYS:N	2.29	0.42
21:S4:1119:LEU:O	21:S4:1121:GLU:N	2.52	0.42
22:T1:736:LEU:HB2	31:c5:19:THR:N	2.33	0.42
22:T1:819:ASN:ND2	31:c5:57:GLU:CG	2.81	0.42
22:T2:712:PHE:HZ	22:T2:751:ARG:HD3	1.84	0.42
22:T4:781:THR:HG23	22:T4:783:THR:N	2.33	0.42
22:T4:917:ASP:HB2	22:T4:918:PRO:CD	2.47	0.42
23:U1:406:GLU:CA	31:c2:548:VAL:HG22	2.49	0.42
23:U2:37:ASN:N	31:c4:558:GLU:CA	2.75	0.42
23:U2:109:LEU:HD23	23:U2:298:ILE:HG13	2.00	0.42
23:U2:293:ILE:HD11	23:U2:327:VAL:CG2	2.49	0.42
23:U2:395:CYS:O	31:c4:554:LEU:HB3	2.19	0.42
23:U2:407:VAL:O	31:c4:541:ARG:O	2.36	0.42
23:U3:210:MET:SD	24:V3:333:ILE:HG23	2.59	0.42
24:V1:247:TYR:CE2	24:V1:260:LEU:HD13	2.54	0.42
24:V1:400:LEU:HB3	24:V1:426:TYR:OH	2.18	0.42
24:V2:452:TRP:CD1	24:V2:475:THR:HA	2.54	0.42
24:V4:513:MET:HA	24:V4:541:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W1:35:ILE:HB	25:W1:47:ASP:HB2	2.00	0.42
26:X1:148:MET:HE3	26:X1:152:LEU:HG	2.00	0.42
26:X2:152:LEU:HD23	26:X2:152:LEU:HA	1.85	0.42
26:X2:299:SER:O	34:i:369:VAL:CG2	2.65	0.42
26:X3:141:ASN:C	26:X3:145:ASN:HD22	2.24	0.42
26:X3:215:SER:HB2	26:X3:390:TRP:CH2	2.54	0.42
26:X4:60:LYS:C	26:X4:62:GLY:N	2.77	0.42
27:Y3:303:HIS:HA	27:Y3:325:ASP:OD2	2.19	0.42
28:Z2:186:LEU:HD12	28:Z2:186:LEU:HA	1.91	0.42
28:Z2:295:ASN:ND2	28:Z2:329:TRP:O	2.52	0.42
28:Z2:554:PHE:CA	30:b2:233:TRP:O	2.61	0.42
28:Z4:53:GLY:HA3	28:Z4:71:HIS:HB3	2.02	0.42
28:Z4:180:ASP:HA	28:Z4:220:TYR:CD1	2.54	0.42
28:Z4:436:HIS:CD2	28:Z4:438:GLU:H	2.37	0.42
29:a2:231[A]:HIS:CE1	29:a2:248:ARG:NH2	2.88	0.42
30:b1:19:THR:HG22	30:b1:362:ASP:HB3	2.01	0.42
31:c1:351:LEU:HD13	31:c1:422:TYR:CZ	2.54	0.42
31:c1:411:VAL:O	31:c1:411:VAL:HG22	2.18	0.42
31:c2:385:LEU:CD2	31:c2:401:LEU:HD11	2.47	0.42
31:c2:538:LEU:HD12	31:c2:555:VAL:HG21	2.00	0.42
31:c3:222:GLU:HG3	31:c3:223:SER:N	2.34	0.42
31:c3:315:LEU:HG	31:c3:385:LEU:HD13	2.01	0.42
31:c3:606:TRP:CE3	31:c3:650:ALA:HB2	2.54	0.42
31:c4:467:GLU:OE2	31:c4:471:LEU:HD13	2.19	0.42
1:A1:199:PHE:HA	4:B1:353:LEU:HA	1.99	0.42
1:A1:890:ALA:C	1:A1:892:SER:H	2.27	0.42
2:A2:1277:TRP:CD1	2:A2:1278:PRO:HD3	2.53	0.42
2:A2:1341:ALA:O	2:A2:1342:SER:HB2	2.19	0.42
2:A4:86:ASN:N	3:A6:394:LEU:O	2.52	0.42
2:A4:574:ARG:NH2	3:A6:108:SER:HG	2.17	0.42
2:A4:635:ARG:HE	3:A6:599:ARG:HG2	1.84	0.42
2:A4:684:VAL:CG1	3:A6:403:ARG:HH21	2.25	0.42
2:A4:859:GLN:CG	3:A6:131:PRO:HB2	1.83	0.42
2:A4:871:ASN:OD1	6:D3:573:LEU:CB	2.67	0.42
2:A4:893:LEU:HG	3:A6:175:GLU:CG	2.35	0.42
2:A4:896:ALA:C	3:A6:165:PHE:CG	2.92	0.42
2:A4:911:TYR:CE2	6:D3:555:ARG:CZ	2.97	0.42
2:A4:980:ARG:CB	6:D3:526:LEU:HB2	2.49	0.42
2:A4:1277:TRP:CD1	2:A4:1278:PRO:HD3	2.53	0.42
3:A5:233:THR:N	5:C2:738:ASP:HB2	2.33	0.42
3:A5:780:GLU:HG3	3:A5:822:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1366:LEU:HA	28:Z2:829:SER:C	2.43	0.42
3:A5:1369:ILE:HD11	28:Z2:832:PHE:CA	2.42	0.42
3:A6:1359:LEU:HB3	28:Z4:918:PHE:N	2.33	0.42
5:C1:732:LYS:HE3	11:I1:1225:LYS:HD2	1.90	0.42
6:D6:798:MET:HG2	22:T3:770:VAL:H	1.83	0.42
6:D7:179:ASP:CG	11:I3:49:PRO:CB	2.89	0.42
6:D7:445:LEU:HD12	6:D7:446:GLU:N	2.33	0.42
9:G1:254:ASN:HA	15:M2:603:SER:C	2.43	0.42
9:G2:263:MET:SD	17:O4:263:GLN:CG	3.07	0.42
9:G2:263:MET:CE	17:O4:259:ASP:OD2	2.60	0.42
11:I1:924:ILE:HD12	15:M1:595:MET:HG2	1.90	0.42
11:I1:1038:ILE:H	20:R1:169:GLY:CA	2.24	0.42
11:I2:928:LEU:HG	20:R3:155:GLU:HG3	2.00	0.42
11:I2:1054:ILE:HG22	17:O3:278:GLU:CB	1.73	0.42
11:I4:1326:GLU:OE1	12:J4:255:LEU:HD22	2.19	0.42
11:I5:1119:ARG:HH12	12:J5:240:GLY:HA3	1.84	0.42
17:O3:154:ARG:HD3	18:P3:324:LEU:HD11	2.00	0.42
21:S1:116:CYS:HB3	21:S1:123:LEU:HD21	2.02	0.42
21:S1:1097:LYS:NZ	21:S1:1097:LYS:HB3	2.35	0.42
21:S2:81:VAL:CG1	21:S2:471:VAL:HG11	2.49	0.42
21:S3:382:MET:HE2	21:S3:382:MET:HB3	1.63	0.42
22:T1:810:THR:OG1	22:T1:868:THR:HG21	2.19	0.42
22:T1:812:ASP:CG	31:c5:88:GLU:CG	2.78	0.42
22:T3:851:LYS:HB3	22:T3:851:LYS:HE2	1.76	0.42
22:T4:698:LYS:HE2	22:T4:845:GLN:NE2	2.34	0.42
23:U1:145:LEU:HD23	31:c1:502:LYS:HD2	2.01	0.42
23:U1:390:THR:O	23:U1:394:ILE:HG12	2.19	0.42
23:U1:433:ALA:O	23:U1:435:PHE:N	2.44	0.42
23:U2:22:PHE:HA	31:c4:562:LEU:CG	2.23	0.42
23:U2:34:ASP:N	31:c4:558:GLU:CD	2.62	0.42
23:U4:77:LEU:HG	23:U4:125:TRP:CD2	2.54	0.42
24:V1:203:ARG:NE	24:V1:210:GLN:HB2	2.34	0.42
24:V2:344:TRP:C	24:V2:346:THR:H	2.27	0.42
26:X1:239:VAL:HB	26:X1:240:PHE:H	1.59	0.42
26:X1:401:LYS:CD	37:k2:450:HIS:HB3	2.48	0.42
26:X2:303:PHE:CE2	34:i:421:ILE:HG12	2.54	0.42
26:X4:239:VAL:HB	26:X4:240:PHE:H	1.59	0.42
28:Z1:92:THR:HG21	28:Z1:479:TYR:OH	2.19	0.42
28:Z1:111:GLN:HG3	28:Z1:168:TYR:CG	2.55	0.42
28:Z1:521:SER:O	30:b1:238:ASN:HB3	2.13	0.42
28:Z2:477:GLN:HA	28:Z2:478:PRO:HD2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:436:HIS:CD2	28:Z3:438:GLU:H	2.37	0.42
28:Z3:508:LYS:O	28:Z3:512:THR:HG23	2.19	0.42
31:c1:572:PRO:HB2	31:c1:638:ILE:HD12	2.01	0.42
31:c2:568:HIS:ND1	31:c2:568:HIS:O	2.52	0.42
31:c3:322:ILE:O	31:c3:326:VAL:HG23	2.18	0.42
31:c3:467:GLU:OE2	31:c3:471:LEU:HD13	2.19	0.42
31:c3:572:PRO:HB2	31:c3:638:ILE:HD12	2.01	0.42
31:c5:222:GLU:HG3	31:c5:223:SER:N	2.34	0.42
31:c5:315:LEU:HG	31:c5:385:LEU:HD13	2.01	0.42
31:c5:351:LEU:HD13	31:c5:422:TYR:CZ	2.54	0.42
2:A2:288:ILE:HD11	2:A2:290:HIS:CE1	2.54	0.42
2:A2:827:ILE:HG13	2:A2:860:GLU:HB2	1.63	0.42
2:A2:865:ALA:N	6:D1:607:PRO:CD	2.48	0.42
2:A2:876:ARG:NH1	6:D1:563:GLU:CA	2.75	0.42
2:A2:973:GLU:OE1	6:D1:192:TYR:CD1	2.71	0.42
2:A2:1142:PHE:N	3:A5:566:GLY:HA2	2.34	0.42
1:A3:1200:ARG:HH12	3:A6:608:VAL:H	1.66	0.42
1:A3:1229:VAL:HB	2:A4:725:GLU:C	2.38	0.42
1:A3:1234:GLN:HA	3:A6:601:PHE:CE2	2.54	0.42
1:A3:1332:ARG:HD2	6:D3:636:ASP:OD2	2.20	0.42
2:A4:288:ILE:HD11	2:A4:290:HIS:CE1	2.54	0.42
2:A4:351:ILE:HD11	2:A4:424:PRO:HB2	2.00	0.42
2:A4:618:ALA:CA	3:A6:498:ARG:HH11	1.97	0.42
2:A4:679:TYR:O	3:A6:433:LYS:HD3	2.18	0.42
2:A4:685:ARG:HG3	3:A6:404:LEU:CD2	2.42	0.42
2:A4:765:GLU:O	3:A6:559:PHE:CE1	2.72	0.42
2:A4:789:LEU:N	3:A6:145:THR:O	2.52	0.42
2:A4:853:VAL:HA	3:A6:169:TYR:HB2	1.85	0.42
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD13	1.65	0.42
3:A5:1414:PHE:O	28:Z2:961:PHE:CB	2.68	0.42
3:A6:1394:VAL:CG2	28:Z4:911:GLU:O	2.67	0.42
3:A6:1399:ARG:NH2	28:Z4:969:MET:H	2.15	0.42
6:D3:584:LEU:HD22	6:D3:609:ILE:CD1	2.49	0.42
6:D4:649:VAL:HG12	6:D4:660:LYS:HD2	2.01	0.42
6:D4:815:GLU:C	6:D4:815:GLU:CD	2.87	0.42
6:D5:500:LYS:HG3	31:c3:473:THR:HG21	2.00	0.42
11:I1:888:GLU:C	17:O1:242:ARG:NH2	1.92	0.42
11:I1:1032:THR:C	15:M1:627:LEU:HD23	2.40	0.42
11:I1:1041:GLN:CA	15:M1:620:VAL:CG2	2.74	0.42
11:I2:615:ILE:HD12	11:I2:615:ILE:N	2.34	0.42
11:I2:834:SER:OG	17:O3:237:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:894:VAL:HB	17:O3:239:GLN:HB2	1.97	0.42
11:I2:936:LYS:CG	15:M3:609:GLY:CA	2.98	0.42
11:I2:988:GLU:O	15:M3:608:LYS:CG	2.68	0.42
11:I2:1033:PRO:CB	20:R3:177:LEU:HD12	2.47	0.42
11:I2:1050:SER:O	17:O3:290:TYR:CB	2.67	0.42
11:I2:1051:LYS:NZ	17:O3:285:LYS:CE	2.69	0.42
11:I3:1083:GLU:OE1	11:I3:1083:GLU:N	2.42	0.42
11:I5:1326:GLU:OE1	12:J5:255:LEU:HD22	2.19	0.42
16:N2:429:GLU:OE2	16:N2:429:GLU:N	2.52	0.42
17:O2:156:ILE:HG22	17:O2:157:THR:N	2.34	0.42
21:S1:976:LEU:HG	22:T1:882:SER:HB3	2.01	0.42
21:S2:116:CYS:HB3	21:S2:123:LEU:HD21	2.02	0.42
21:S2:987:MET:HE1	21:S2:991:LYS:HE2	2.00	0.42
21:S3:219:SER:C	21:S3:220:PHE:CD1	2.97	0.42
21:S3:681:SER:OG	21:S4:1145:LYS:HA	2.19	0.42
21:S3:946:LEU:HD23	21:S3:946:LEU:HA	1.83	0.42
21:S3:1119:LEU:HB2	21:S3:1155:GLN:CD	2.43	0.42
21:S4:81:VAL:CG1	21:S4:471:VAL:HG11	2.49	0.42
22:T1:819:ASN:HA	31:c5:57:GLU:CD	2.40	0.42
22:T3:698:LYS:HE2	22:T3:845:GLN:NE2	2.34	0.42
22:T3:822:LEU:HD21	22:T3:880:MET:HG3	2.00	0.42
23:U1:201:LYS:NZ	31:c1:622:ILE:O	2.51	0.42
23:U1:432:TYR:CZ	31:c2:470:ARG:NE	2.44	0.42
23:U2:77:LEU:HG	23:U2:125:TRP:CD2	2.54	0.42
23:U2:430:PRO:HD2	31:c4:458:LYS:NZ	2.33	0.42
23:U3:23:LYS:HD2	23:U3:434:THR:HG21	2.01	0.42
23:U3:106:GLU:O	23:U3:110:MET:HG2	2.18	0.42
24:V1:394:GLN:HG2	24:V1:397:GLU:HB2	2.00	0.42
24:V2:155:SER:HB3	24:V2:159:MET:H	1.85	0.42
24:V2:168:LYS:HE2	25:W2:45:LEU:HB2	2.00	0.42
24:V2:203:ARG:NE	24:V2:210:GLN:HB2	2.34	0.42
24:V2:531:LEU:O	24:V2:532:LYS:HG2	2.19	0.42
24:V4:392:TYR:O	24:V4:394:GLN:N	2.44	0.42
25:W1:60:ASP:H	25:W1:70:LEU:CD1	2.33	0.42
26:X1:508:LEU:HG	26:X1:522:MET:HE3	2.01	0.42
26:X2:57:PRO:HB3	26:X2:91:TYR:OH	2.19	0.42
26:X2:152:LEU:CD2	26:X2:182:LEU:HB3	2.43	0.42
26:X2:195:GLN:HB2	34:i:439:GLN:HG2	1.29	0.42
26:X2:201:ARG:N	34:i:367:GLU:HA	2.34	0.42
26:X2:265:ILE:C	26:X2:267:ARG:N	2.77	0.42
26:X2:269:ASP:OD1	26:X2:269:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:297:LYS:HG2	34:i:446:LYS:CE	2.15	0.42
26:X3:148:MET:HE3	26:X3:152:LEU:HG	2.00	0.42
26:X3:149:GLU:HG3	26:X3:186:ARG:NE	2.34	0.42
26:X3:265:ILE:C	26:X3:267:ARG:N	2.77	0.42
27:Y3:192:ILE:HG22	27:Y3:207:LYS:HG2	2.02	0.42
27:Y4:41:ASP:O	29:a4:231[B]:HIS:NE2	2.45	0.42
27:Y4:107:SER:HA	27:Y4:135:ARG:HH21	1.83	0.42
27:Y4:303:HIS:HA	27:Y4:325:ASP:OD2	2.19	0.42
28:Z1:218:SER:OG	28:Z1:219:ASP:N	2.50	0.42
28:Z1:386:LEU:HD23	28:Z1:621:GLN:HA	2.01	0.42
28:Z1:436:HIS:CD2	28:Z1:438:GLU:H	2.37	0.42
28:Z1:539:GLU:OE1	30:b1:163:ASP:OD1	2.17	0.42
28:Z2:386:LEU:HD23	28:Z2:621:GLN:HA	2.01	0.42
28:Z3:411:LEU:HG	30:b3:251:ILE:HD13	2.01	0.42
28:Z4:558:LEU:HD23	30:b4:236:THR:HB	2.01	0.42
28:Z4:627:TYR:HA	28:Z4:661:GLN:OE1	2.20	0.42
30:b2:160:VAL:HG11	30:b2:202:VAL:HG13	2.01	0.42
30:b3:195:SER:OG	30:b3:263:SER:O	2.26	0.42
30:b4:19:THR:HG22	30:b4:362:ASP:HB3	2.01	0.42
30:b4:160:VAL:HG11	30:b4:202:VAL:HG13	2.01	0.42
30:b4:328:TYR:CE1	30:b4:343:ASN:HB2	2.54	0.42
31:c4:229:ARG:O	31:c4:233:THR:HG23	2.19	0.42
31:c5:694:ILE:HG22	31:c5:694:ILE:O	2.20	0.42
1:A1:1099:GLN:CG	11:I1:1414:CYS:SG	3.06	0.42
1:A1:1201:ARG:CZ	2:A2:734:LEU:CA	2.94	0.42
2:A2:130:ILE:HG13	2:A2:566:GLY:HA2	2.01	0.42
2:A2:904:GLN:CA	6:D1:603:SER:N	2.78	0.42
2:A2:909:LYS:NZ	6:D1:197:VAL:CG2	2.83	0.42
2:A2:1019:ARG:NH1	6:D1:237:PRO:C	2.76	0.42
1:A3:1122:LEU:CA	3:A6:599:ARG:HH22	2.33	0.42
1:A3:1192:GLN:OE1	3:A6:649:GLY:CA	2.66	0.42
1:A3:1228:TYR:CB	3:A6:576:VAL:CG2	2.70	0.42
1:A3:1282:PHE:CB	3:A6:625:LEU:HB3	2.49	0.42
2:A4:79:ALA:N	3:A6:385:PRO:HD3	2.27	0.42
2:A4:690:ALA:HB1	3:A6:377:ASN:O	2.18	0.42
2:A4:692:VAL:CB	3:A6:466:ALA:O	2.63	0.42
2:A4:733:GLY:CA	3:A6:543:GLY:HA2	2.49	0.42
2:A4:754:HIS:CG	3:A6:93:ASP:OD1	2.72	0.42
2:A4:802:TYR:OH	3:A6:466:ALA:C	2.61	0.42
2:A4:803:GLU:O	3:A6:383:PRO:CD	2.67	0.42
2:A4:983:LEU:HD13	6:D3:497:PHE:CZ	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1017:THR:HA	3:A5:1020:ILE:HG22	2.02	0.42
3:A5:1028:VAL:HA	11:I5:67:LYS:HB2	0.78	0.42
3:A5:1369:ILE:HD11	28:Z2:832:PHE:C	2.41	0.42
3:A6:889:VAL:HB	3:A6:892:SER:OG	2.18	0.42
3:A6:1155:ASN:ND2	5:C6:736:ASN:H	2.17	0.42
5:C1:732:LYS:HE2	11:I1:1228:GLU:HB3	2.00	0.42
6:D2:649:VAL:O	6:D2:649:VAL:CG1	2.67	0.42
6:D6:815:GLU:C	6:D6:815:GLU:CD	2.87	0.42
6:D7:176:SER:HB2	11:I3:95:LYS:NZ	2.09	0.42
7:E3:94:ILE:HG23	7:E3:94:ILE:O	2.19	0.42
8:F1:1136:GLN:O	17:O2:248:SER:CB	2.68	0.42
8:F1:1137:GLN:C	17:O2:248:SER:HB3	2.39	0.42
9:G1:252:LEU:HD22	17:O2:254:ARG:CD	2.31	0.42
11:I1:72:GLU:N	11:I1:72:GLU:OE1	2.52	0.42
11:I1:921:GLU:CA	16:N1:396:ILE:HD11	2.36	0.42
11:I1:1051:LYS:HA	17:O1:290:TYR:CG	2.55	0.42
11:I1:1060:PHE:HA	16:N1:431:VAL:HG21	1.33	0.42
11:I2:950:LEU:HB2	16:N3:407:ALA:N	2.34	0.42
11:I2:951:LYS:CE	16:N3:404:GLU:HG3	2.48	0.42
11:I2:1023:ASP:OD2	16:N3:405:ALA:HB1	2.20	0.42
11:I2:1032:THR:C	20:R3:173:LEU:HG	2.45	0.42
11:I3:615:ILE:HD12	11:I3:615:ILE:N	2.35	0.42
11:I4:615:ILE:HD12	11:I4:615:ILE:N	2.35	0.42
11:I4:819:MET:HE2	26:X3:502:MET:CB	2.43	0.42
11:I5:72:GLU:OE1	11:I5:72:GLU:N	2.52	0.42
17:O3:156:ILE:HG22	17:O3:157:THR:N	2.34	0.42
17:O4:109:PRO:CG	18:P4:318:PRO:HG2	2.48	0.42
21:S2:976:LEU:HG	22:T2:882:SER:HB3	2.01	0.42
21:S3:81:VAL:CG1	21:S3:471:VAL:HG11	2.49	0.42
23:U1:16:SER:HB2	31:c2:470:ARG:HG3	2.01	0.42
23:U1:22:PHE:CE2	31:c2:559:ILE:CG2	2.94	0.42
23:U1:26:GLN:CG	31:c2:563:ARG:CG	2.84	0.42
23:U2:20:LYS:CA	31:c4:480:CYS:SG	3.07	0.42
24:V1:531:LEU:O	24:V1:532:LYS:HG2	2.19	0.42
24:V2:418:PRO:HB3	24:V2:445:ALA:HB1	2.02	0.42
24:V3:176:LEU:HA	24:V3:177:PRO:HD2	1.87	0.42
24:V4:203:ARG:NE	24:V4:210:GLN:HB2	2.34	0.42
24:V4:531:LEU:O	24:V4:532:LYS:HG2	2.19	0.42
25:W4:280:LEU:HB2	25:W4:292:ALA:O	2.19	0.42
26:X1:265:ILE:C	26:X1:267:ARG:N	2.77	0.42
26:X2:313:LEU:HG	34:i:471:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:65:MET:HA	26:X3:66:PRO:HD3	1.79	0.42
28:Z1:438:GLU:CB	30:b1:333:HIS:CE1	2.99	0.42
28:Z1:627:TYR:HA	28:Z1:661:GLN:OE1	2.19	0.42
28:Z2:59:CYS:HB2	28:Z2:464:THR:OG1	2.19	0.42
28:Z2:92:THR:HG21	28:Z2:479:TYR:OH	2.19	0.42
28:Z2:527:SER:N	30:b2:206:ASN:OD1	2.51	0.42
28:Z2:561:GLN:CB	30:b2:236:THR:H	1.96	0.42
28:Z3:440:GLU:OE2	30:b3:313:PHE:C	2.62	0.42
28:Z4:531:LYS:CB	30:b4:182:PRO:C	2.92	0.42
28:Z4:539:GLU:CB	30:b4:164:CYS:C	2.79	0.42
28:Z4:561:GLN:CG	30:b4:235:LEU:HD23	2.35	0.42
30:b2:115:ILE:HB	30:b2:123:THR:HB	2.01	0.42
31:c1:467:GLU:OE2	31:c1:471:LEU:HD13	2.19	0.42
31:c2:11:TYR:O	31:c2:14:SER:OG	2.23	0.42
31:c2:322:ILE:O	31:c2:326:VAL:HG23	2.18	0.42
31:c3:517:LEU:HB3	31:c3:518:PRO:HD3	2.00	0.42
31:c4:222:GLU:HG3	31:c4:223:SER:N	2.34	0.42
31:c5:467:GLU:OE2	31:c5:471:LEU:HD13	2.19	0.42
31:c5:538:LEU:HD12	31:c5:555:VAL:HG21	2.00	0.42
31:c5:572:PRO:HB2	31:c5:638:ILE:HD12	2.01	0.42
1:A1:870:HIS:C	6:D3:280:GLN:H	2.27	0.42
1:A1:1052:THR:HA	6:D1:812:VAL:HG12	2.02	0.42
1:A1:1224:PRO:HB3	2:A2:731:ILE:CD1	2.48	0.42
2:A2:780:GLU:CA	6:D1:679:ILE:H	2.27	0.42
2:A2:1132:PRO:CD	3:A5:160:ILE:HA	2.49	0.42
2:A2:1141:GLU:OE2	3:A5:567:VAL:CA	2.65	0.42
1:A3:1183:LEU:HB2	3:A6:635:ARG:HG3	2.01	0.42
1:A3:1392:ARG:NH2	3:A6:231:SER:H	2.17	0.42
2:A4:226:PRO:HB3	6:D3:709:ARG:HD3	1.87	0.42
2:A4:537:ALA:CB	3:A6:362:PHE:O	2.61	0.42
2:A4:645:PHE:CD1	3:A6:500:LYS:C	2.95	0.42
2:A4:670:SER:HB3	3:A6:542:LEU:HD22	2.00	0.42
2:A4:678:LEU:CD2	3:A6:431:PHE:CB	2.97	0.42
2:A4:679:TYR:CE2	3:A6:512:GLU:N	2.81	0.42
2:A4:820:LYS:HB2	3:A6:157:TRP:H	1.26	0.42
2:A4:857:LYS:N	3:A6:129:ASN:O	2.52	0.42
2:A4:875:LEU:CD1	6:D3:567:LEU:CG	2.71	0.42
3:A5:146:LYS:HA	5:C2:747:PRO:HD3	1.89	0.42
3:A6:1411:ARG:NE	26:X4:685:GLU:O	2.52	0.42
6:D5:584:LEU:HD22	6:D5:609:ILE:CD1	2.49	0.42
11:I1:939:ASN:HB3	17:O1:265:ASN:CG	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1662:ARG:HB2	11:I2:1663:LYS:HD3	2.01	0.42
11:I2:873:ILE:O	17:O3:251:ILE:O	2.38	0.42
11:I2:956:ILE:HG23	20:R3:166:LEU:CB	2.50	0.42
11:I2:1019:LEU:HB2	16:N3:409:ALA:HA	1.36	0.42
11:I3:777:SER:CB	29:a2:40[A]:GLU:CB	2.82	0.42
11:I3:1277:LEU:H	26:X1:523:LEU:H	1.68	0.42
11:I4:1311:LEU:HD13	11:I4:1311:LEU:C	2.44	0.42
11:I5:615:ILE:HD12	11:I5:615:ILE:N	2.35	0.42
12:J2:240:GLY:O	12:J2:241:THR:OG1	2.28	0.42
17:O4:75:ILE:N	17:O4:76:PRO:CD	2.83	0.42
20:R4:147:LEU:O	20:R4:151:LYS:N	2.52	0.42
21:S1:178:ALA:HA	21:S1:183:SER:O	2.20	0.42
21:S1:896:ASN:O	21:S1:900:PHE:N	2.52	0.42
21:S2:219:SER:C	21:S2:220:PHE:CD1	2.97	0.42
21:S2:348:ASN:HB2	21:S2:412:PHE:O	2.20	0.42
21:S2:407:LEU:HD11	21:S2:417:ALA:HB1	2.00	0.42
21:S3:680:PRO:CB	21:S4:1097:LYS:NZ	2.81	0.42
21:S3:987:MET:HE1	21:S3:991:LYS:HE2	2.00	0.42
21:S4:1069:LEU:C	21:S4:1071:LEU:N	2.76	0.42
22:T3:862:HIS:CD2	22:T3:903:LYS:HD3	2.55	0.42
22:T4:862:HIS:CD2	22:T4:903:LYS:HD3	2.55	0.42
23:U2:82:LEU:HD23	23:U2:82:LEU:HA	1.87	0.42
23:U2:428:ASN:CB	31:c4:464:LEU:O	2.56	0.42
24:V1:216:LEU:O	24:V1:217:LEU:HD23	2.19	0.42
24:V3:216:LEU:O	24:V3:217:LEU:HD23	2.19	0.42
24:V3:365:SER:HB3	24:V3:368:GLU:HB2	2.01	0.42
24:V4:208:TYR:CE2	24:V4:505:GLU:HG3	2.54	0.42
25:W3:63:HIS:HA	25:W3:64:PRO:HD3	1.82	0.42
25:W4:35:ILE:HB	25:W4:47:ASP:HB2	2.00	0.42
26:X1:285:VAL:O	26:X1:289:ILE:HG13	2.18	0.42
26:X2:149:GLU:HG3	26:X2:186:ARG:NE	2.34	0.42
26:X2:335:PHE:O	26:X2:339:ILE:HG13	2.19	0.42
26:X2:403:HIS:O	26:X2:405:ILE:HG23	2.20	0.42
26:X4:269:ASP:OD1	26:X4:269:ASP:N	2.53	0.42
27:Y2:131:ASP:O	27:Y2:133:ILE:HG13	2.20	0.42
27:Y4:192:ILE:HG22	27:Y4:207:LYS:HG2	2.02	0.42
28:Z3:53:GLY:HA3	28:Z3:71:HIS:HB3	2.02	0.42
28:Z3:59:CYS:HB2	28:Z3:464:THR:OG1	2.19	0.42
28:Z3:534:ASP:N	30:b3:164:CYS:HB2	2.23	0.42
28:Z4:524:VAL:H	30:b4:237:LEU:C	2.27	0.42
29:a2:79:ASP:HB3	29:a2:137[B]:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a4:231[A]:HIS:CE1	29:a4:248:ARG:NH2	2.87	0.42
30:b3:160:VAL:HG11	30:b3:202:VAL:HG13	2.01	0.42
31:c1:239:TYR:HB3	31:c1:262:PHE:CD2	2.55	0.42
31:c1:538:LEU:HD12	31:c1:555:VAL:HG21	2.00	0.42
31:c2:109:VAL:HG12	31:c2:109:VAL:O	2.20	0.42
31:c2:239:TYR:HB3	31:c2:262:PHE:CD2	2.55	0.42
31:c2:315:LEU:HG	31:c2:385:LEU:HD13	2.01	0.42
31:c3:229:ARG:O	31:c3:233:THR:HG23	2.19	0.42
31:c3:239:TYR:HB3	31:c3:262:PHE:CD2	2.55	0.42
31:c4:239:TYR:HB3	31:c4:262:PHE:CD2	2.55	0.42
31:c5:219:GLN:HA	31:c5:222:GLU:OE2	2.20	0.42
1:A1:835:THR:CA	6:D3:302:PRO:HB2	2.44	0.42
2:A2:226:PRO:HG3	6:D1:707:ILE:C	2.45	0.42
2:A2:779:ASP:N	6:D1:678:GLY:CA	2.70	0.42
2:A2:869:ALA:HB2	6:D1:583:ILE:HG21	2.01	0.42
2:A2:871:ASN:HB2	6:D1:567:LEU:O	2.20	0.42
2:A2:976:LEU:N	6:D1:495:VAL:O	2.49	0.42
1:A3:1199:GLN:HB2	3:A6:678:LEU:HD22	2.01	0.42
2:A4:685:ARG:HB2	3:A6:404:LEU:HD23	2.02	0.42
2:A4:687:LEU:HD23	2:A4:688:TRP:N	2.34	0.42
2:A4:776:MET:HE3	3:A6:525:THR:HG23	2.02	0.42
2:A4:892:SER:C	3:A6:232:LEU:CB	2.88	0.42
2:A4:974:PRO:HB2	6:D3:231:THR:HG21	2.01	0.42
2:A4:1023:ILE:HG22	2:A4:1025:SER:N	2.34	0.42
2:A4:1341:ALA:O	2:A4:1342:SER:HB2	2.19	0.42
3:A5:1379:GLY:O	28:Z2:814:THR:N	2.45	0.42
3:A6:519:LEU:C	6:D3:686:ASP:CG	2.79	0.42
6:D6:649:VAL:HG12	6:D6:660:LYS:HD2	2.00	0.42
6:D7:187:ARG:NH1	11:I3:54:LYS:NZ	2.64	0.42
9:G2:255:LEU:CA	17:O4:262:ASP:OD1	2.65	0.42
11:I1:937:TYR:CD2	15:M1:602:MET:CE	2.94	0.42
11:I2:898:VAL:HG22	17:O3:237:PRO:CD	2.19	0.42
11:I2:938:CYS:O	17:O3:264:ILE:C	2.62	0.42
11:I2:964:SER:H	20:R3:165:SER:HB2	1.68	0.42
11:I2:976:ARG:NH1	15:M3:622:VAL:HG21	2.15	0.42
11:I2:1033:PRO:HB3	20:R3:174:ARG:HA	2.01	0.42
11:I2:1052:LEU:HD23	16:N3:434:LEU:CG	2.50	0.42
11:I2:1067:PHE:HD2	16:N3:428:ASP:O	1.99	0.42
11:I3:506:THR:HG23	11:I3:598:MET:HE3	2.01	0.42
11:I3:1279:THR:N	11:I3:1280:PRO:CD	2.82	0.42
11:I5:660:THR:OG1	11:I5:661:HIS:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1311:LEU:HD13	11:I5:1311:LEU:C	2.44	0.42
19:Q4:204[B]:MSE:HE2	19:Q4:211:MSE:HB2	2.00	0.42
21:S2:1003:LEU:O	21:S2:1006:GLU:HB3	2.20	0.42
21:S3:681:SER:O	21:S4:1145:LYS:C	2.62	0.42
21:S3:968:LYS:HE2	21:S3:968:LYS:HB3	1.65	0.42
21:S4:348:ASN:HB2	21:S4:412:PHE:O	2.20	0.42
22:T1:781:THR:HG23	22:T1:783:THR:N	2.33	0.42
23:U2:17:ASP:HA	31:c4:467:GLU:HA	1.52	0.42
24:V2:176:LEU:HA	24:V2:177:PRO:HD2	1.87	0.42
24:V3:153:LYS:HA	25:W3:261:SER:HB2	2.01	0.42
24:V3:208:TYR:CE2	24:V3:505:GLU:HG3	2.54	0.42
24:V4:416:ASP:HA	24:V4:443:THR:CG2	2.44	0.42
24:V4:418:PRO:HB3	24:V4:445:ALA:HB1	2.02	0.42
25:W3:60:ASP:H	25:W3:70:LEU:CD1	2.33	0.42
26:X1:215:SER:HB2	26:X1:390:TRP:CH2	2.54	0.42
26:X2:159:ILE:HD13	26:X2:176:GLU:HA	2.02	0.42
26:X2:307:LYS:HB3	34:i:317:LEU:HD13	2.02	0.42
26:X2:374:TYR:HD2	34:i:423:LYS:HD3	1.49	0.42
26:X3:396:ASP:OD1	26:X3:401:LYS:HE3	2.20	0.42
27:Y1:76:SER:HB3	27:Y1:78:ASP:OD1	2.19	0.42
28:Z1:440:GLU:OE2	30:b1:313:PHE:C	2.62	0.42
28:Z2:440:GLU:OE2	30:b2:313:PHE:C	2.62	0.42
28:Z2:447:GLU:OE1	30:b2:250:GLY:C	2.63	0.42
28:Z2:533:LEU:CB	30:b2:164:CYS:SG	3.08	0.42
28:Z3:92:THR:HG21	28:Z3:479:TYR:OH	2.19	0.42
28:Z3:117:LEU:HD23	28:Z3:117:LEU:HA	1.90	0.42
28:Z3:285:ASN:OD1	28:Z3:285:ASN:N	2.48	0.42
29:a4:44[B]:ILE:HD12	29:a4:100:PHE:CE2	2.54	0.42
30:b1:115:ILE:HB	30:b1:123:THR:HB	2.00	0.42
30:b2:78:SER:OG	30:b2:144:ASP:OD2	2.27	0.42
31:c1:222:GLU:HG3	31:c1:223:SER:N	2.34	0.42
31:c1:315:LEU:HG	31:c1:385:LEU:HD13	2.01	0.42
31:c2:351:LEU:HD13	31:c2:422:TYR:CZ	2.54	0.42
31:c3:581:CYS:O	31:c3:585:THR:OG1	2.30	0.42
31:c5:239:TYR:HB3	31:c5:262:PHE:CD2	2.55	0.42
33:h:259:ARG:O	33:h:263:MET:HE3	2.20	0.42
1:A1:879:LEU:HD21	1:A1:908:LEU:HD12	2.01	0.42
1:A1:1196:GLU:O	1:A1:1200:ARG:HD3	2.19	0.42
2:A2:780:GLU:CA	6:D1:674:TYR:CA	2.92	0.42
2:A2:1222:ALA:O	2:A2:1223:GLU:C	2.62	0.42
1:A3:1049:PHE:HA	6:D3:816:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1162:ASN:CG	3:A6:732:GLN:NE2	2.78	0.42
1:A3:1200:ARG:CB	3:A6:609:GLU:CG	2.95	0.42
1:A3:1230:TYR:CE2	3:A6:605:TYR:CB	3.03	0.42
1:A3:1279:ILE:HA	3:A6:625:LEU:HA	0.42	0.42
1:A3:1285:LEU:HA	3:A6:581:LYS:NZ	0.36	0.42
1:A3:1328:ARG:HD2	3:A6:126:ARG:HD2	2.02	0.42
2:A4:672:ARG:C	3:A6:100:SER:HB2	2.45	0.42
2:A4:685:ARG:HB3	3:A6:432:VAL:HA	1.36	0.42
2:A4:689:LYS:HD2	3:A6:336:ILE:HG12	1.94	0.42
2:A4:715:GLU:HG3	3:A6:490:PHE:CD1	2.54	0.42
2:A4:735:ALA:CA	3:A6:92:ASP:CB	2.91	0.42
2:A4:752:LYS:CA	3:A6:540:GLN:N	2.64	0.42
2:A4:856:PHE:CZ	3:A6:565:THR:C	2.96	0.42
2:A4:947:LYS:CA	4:B6:348:PRO:O	2.67	0.42
3:A5:234:LEU:HB2	5:C2:737:LYS:HB3	2.00	0.42
3:A5:994:VAL:O	11:I5:61:LYS:CB	2.68	0.42
3:A5:997:ASP:N	11:I5:61:LYS:CB	2.83	0.42
3:A5:1379:GLY:C	28:Z2:816:THR:H	2.25	0.42
3:A6:442:ARG:CD	6:D3:691:LEU:C	2.92	0.42
3:A6:445:THR:N	6:D3:717:LEU:O	2.52	0.42
3:A6:483:HIS:CG	6:D3:675:ARG:CD	3.01	0.42
3:A6:1017:THR:HA	3:A6:1020:ILE:HG22	2.02	0.42
3:A6:1368:GLN:HB2	28:Z4:875:LEU:C	2.44	0.42
4:B3:354:LEU:HD12	4:B3:354:LEU:C	2.45	0.42
6:D1:570:VAL:O	6:D1:574:VAL:HG23	2.20	0.42
6:D6:584:LEU:HD22	6:D6:609:ILE:HD11	2.00	0.42
7:E2:94:ILE:HG23	7:E2:94:ILE:O	2.19	0.42
8:F1:1091:SER:OG	17:O2:241:SER:N	2.53	0.42
8:F1:1203:TRP:CA	17:O2:251:ILE:HG22	2.45	0.42
8:F1:1267:ARG:H	17:O2:265:ASN:HB3	1.84	0.42
11:I1:934:LEU:HD12	15:M1:603:SER:H	1.84	0.42
11:I1:941:GLY:N	17:O1:260:LEU:O	2.42	0.42
11:I1:1056:PRO:CG	17:O1:278:GLU:HG2	2.44	0.42
11:I2:884:LEU:HD21	15:M3:595:MET:CG	2.49	0.42
11:I2:888:GLU:HG2	16:N3:394:THR:H	1.31	0.42
11:I2:900:ARG:HB2	17:O3:232:LYS:CG	2.43	0.42
11:I2:949:CYS:N	17:O3:253:LEU:O	2.52	0.42
11:I2:951:LYS:HG3	17:O3:253:LEU:CD1	2.50	0.42
11:I2:1029:LEU:HB2	20:R3:171:ALA:HA	2.00	0.42
11:I2:1040:HIS:HD2	20:R3:170:LEU:HD23	1.85	0.42
11:I2:1106:LYS:O	16:N3:439:ARG:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1311:LEU:HD13	11:I3:1311:LEU:C	2.44	0.42
11:I4:1279:THR:N	26:X3:520:GLU:OE2	2.31	0.42
19:Q1:192:GLN:HE21	19:Q1:192:GLN:HA	1.84	0.42
21:S1:277:VAL:HB	21:S1:286:PHE:CZ	2.54	0.42
21:S2:178:ALA:HA	21:S2:183:SER:O	2.20	0.42
21:S3:536:HIS:O	21:S3:537:ALA:C	2.62	0.42
21:S3:684:THR:CB	21:S4:1146:ALA:CA	2.64	0.42
21:S4:116:CYS:HB3	21:S4:123:LEU:HD21	2.02	0.42
23:U2:26:GLN:N	31:c4:489:LEU:H	2.12	0.42
23:U2:264:TYR:O	23:U2:268:SER:OG	2.34	0.42
23:U4:22:PHE:CG	23:U4:38:ILE:HD11	2.54	0.42
24:V1:344:TRP:C	24:V1:346:THR:H	2.27	0.42
24:V3:155:SER:HB3	24:V3:159:MET:H	1.84	0.42
24:V3:513:MET:HA	24:V3:541:ALA:HB1	2.02	0.42
26:X2:221:GLU:HA	26:X2:224:ILE:HG13	2.00	0.42
26:X2:243:GLN:O	26:X2:247:LYS:HG3	2.19	0.42
26:X2:300:SER:N	34:i:368[B]:CYS:CA	2.77	0.42
26:X2:306:TRP:HE1	34:i:415:SER:HB3	1.83	0.42
26:X2:454:LEU:HD21	26:X2:503:VAL:HG21	2.02	0.42
26:X3:269:ASP:OD1	26:X3:269:ASP:N	2.53	0.42
26:X4:454:LEU:HD21	26:X4:503:VAL:HG21	2.02	0.42
27:Y2:303:HIS:HA	27:Y2:325:ASP:OD2	2.19	0.42
28:Z1:531:LYS:CD	30:b1:183:LEU:CB	2.71	0.42
28:Z1:557:CYS:CA	30:b1:210:ARG:CA	2.60	0.42
28:Z1:558:LEU:HD23	30:b1:236:THR:HB	2.01	0.42
28:Z2:436:HIS:CD2	28:Z2:438:GLU:H	2.37	0.42
28:Z3:477:GLN:HA	28:Z3:478:PRO:HD2	1.87	0.42
28:Z3:554:PHE:CD2	30:b3:234:LEU:N	2.82	0.42
28:Z3:627:TYR:HA	28:Z3:661:GLN:OE1	2.19	0.42
28:Z4:92:THR:HG21	28:Z4:479:TYR:OH	2.19	0.42
28:Z4:111:GLN:HG3	28:Z4:168:TYR:CG	2.55	0.42
29:a2:44[B]:ILE:HD12	29:a2:100:PHE:CE2	2.54	0.42
30:b3:10:LEU:HG	30:b3:379:SER:HA	2.01	0.42
30:b4:200:LEU:HD12	30:b4:200:LEU:C	2.45	0.42
30:b4:322:HIS:HA	30:b4:323:PRO:HD3	1.84	0.42
31:c1:219:GLN:HA	31:c1:222:GLU:OE2	2.20	0.42
31:c3:511:GLN:N	31:c3:512:PRO:CD	2.83	0.42
31:c5:11:TYR:O	31:c5:14:SER:OG	2.23	0.42
33:h:197:ALA:HB2	33:h:224:TRP:CZ3	2.55	0.42
1:A1:1221:ILE:HD11	2:A2:642:ARG:HB2	1.80	0.42
2:A2:968:SER:HG	6:D1:195:LYS:C	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1023:ILE:HG22	2:A2:1025:SER:N	2.34	0.42
2:A2:1120:ASP:O	3:A5:136:GLU:OE1	2.38	0.42
2:A2:1122:LEU:HD12	3:A5:132:ASP:HA	2.02	0.42
2:A2:1342:SER:OG	2:A2:1343:GLY:N	2.50	0.42
1:A3:879:LEU:HD21	1:A3:908:LEU:HD12	2.01	0.42
1:A3:1236:GLN:OE1	3:A6:578:ILE:CA	2.62	0.42
1:A3:1241:ARG:HG3	3:A6:597:GLU:OE1	2.20	0.42
1:A3:1280:GLN:HB3	3:A6:571:ARG:HD2	1.35	0.42
1:A3:1311:ARG:HD3	3:A6:711:VAL:O	2.19	0.42
2:A4:87:GLN:H	3:A6:392:LEU:HA	1.76	0.42
2:A4:764:MET:HE1	3:A6:494:PRO:HB3	1.97	0.42
2:A4:779:ASP:CG	3:A6:487:ASP:N	2.67	0.42
2:A4:804:GLN:HE22	3:A6:330:LEU:H	1.67	0.42
2:A4:853:VAL:HB	3:A6:170:THR:C	2.45	0.42
2:A4:879:LEU:H	6:D3:564:ASN:CB	2.32	0.42
2:A4:894:THR:N	3:A6:166:LEU:HB2	2.35	0.42
3:A5:1255:LEU:HB3	3:A5:1256:PRO:HD3	2.00	0.42
3:A5:1414:PHE:C	28:Z2:962:LYS:H	2.19	0.42
3:A6:483:HIS:CD2	6:D3:675:ARG:HD3	2.55	0.42
4:B1:354:LEU:C	4:B1:354:LEU:HD12	2.45	0.42
6:D2:815:GLU:CD	6:D2:815:GLU:C	2.87	0.42
7:E6:94:ILE:O	7:E6:94:ILE:HG23	2.19	0.42
8:F2:924:GLU:OE2	8:F2:988:ARG:NE	2.53	0.42
9:G1:251:TYR:O	15:M2:602:MET:HE1	2.20	0.42
11:I1:889:THR:N	17:O1:242:ARG:NH1	2.65	0.42
11:I1:1030:ARG:H	20:R1:172:ASP:C	2.28	0.42
11:I1:1049:LEU:H	20:R1:146:LEU:HD13	1.84	0.42
11:I1:1104:LEU:O	16:N1:436:ALA:CB	2.36	0.42
11:I1:1108:PRO:HG2	16:N1:444:SER:H	1.83	0.42
11:I2:878:GLN:C	17:O3:252:VAL:HG23	2.26	0.42
11:I2:915:ALA:HB1	15:M3:585:LEU:HB2	1.27	0.42
11:I2:936:LYS:N	15:M3:609:GLY:CA	2.70	0.42
11:I2:945:LEU:HD11	17:O3:258:GLU:CG	2.16	0.42
11:I2:948:ALA:CA	17:O3:253:LEU:CA	2.95	0.42
11:I2:955:LYS:CB	16:N3:403:VAL:CG2	2.96	0.42
11:I2:955:LYS:CB	16:N3:400:LEU:CG	2.97	0.42
11:I2:980:ILE:CB	15:M3:618:GLN:HG2	2.49	0.42
11:I2:1045:PHE:HB3	15:M3:619:ILE:HD13	2.02	0.42
11:I2:1055:GLU:CA	17:O3:281:ALA:HB2	2.48	0.42
11:I2:1108:PRO:HD3	16:N3:443:GLU:H	1.82	0.42
11:I2:1326:GLU:OE1	12:J2:255:LEU:HD22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1277:LEU:HD12	26:X1:521:TRP:HE3	1.84	0.42
11:I3:1326:GLU:OE1	12:J3:255:LEU:HD22	2.19	0.42
17:O2:111:TYR:H	18:P2:325:ILE:HG12	1.82	0.42
17:O4:110:LEU:N	18:P4:318:PRO:CA	2.82	0.42
21:S1:531:ARG:O	21:S1:535:GLY:O	2.38	0.42
21:S1:1058:ILE:HG22	21:S1:1059:ASP:N	2.35	0.42
21:S2:145:PRO:HA	21:S2:146:PRO:HD2	1.97	0.42
21:S2:1078:LEU:HD21	21:S2:1097:LYS:HE3	2.01	0.42
21:S2:1097:LYS:NZ	21:S2:1097:LYS:HB3	2.34	0.42
21:S3:531:ARG:O	21:S3:535:GLY:O	2.38	0.42
21:S3:1078:LEU:CD2	21:S3:1097:LYS:HG3	2.50	0.42
21:S4:1058:ILE:HG22	21:S4:1059:ASP:N	2.35	0.42
21:S4:1097:LYS:NZ	21:S4:1097:LYS:HB3	2.34	0.42
22:T2:856:MET:HE2	22:T2:856:MET:HB3	1.88	0.42
23:U1:38:ILE:HD13	31:c2:473:THR:CB	2.42	0.42
23:U2:23:LYS:HD3	31:c4:484:LEU:CD1	2.49	0.42
23:U2:391:HIS:CG	31:c4:476:PRO:O	2.71	0.42
23:U4:293:ILE:HD11	23:U4:327:VAL:CG2	2.49	0.42
23:U4:353:ASP:O	23:U4:355:LEU:N	2.51	0.42
24:V1:168:LYS:HE2	25:W1:45:LEU:HB2	2.01	0.42
24:V1:289:SER:OG	31:c1:3:ARG:HG3	2.20	0.42
24:V3:400:LEU:HB3	24:V3:426:TYR:OH	2.18	0.42
24:V4:155:SER:HB3	24:V4:159:MET:H	1.85	0.42
24:V4:247:TYR:CE2	24:V4:260:LEU:HD13	2.54	0.42
25:W2:222:LEU:O	25:W2:233:ILE:HA	2.20	0.42
25:W4:60:ASP:H	25:W4:70:LEU:CD1	2.33	0.42
26:X1:269:ASP:OD1	26:X1:269:ASP:N	2.52	0.42
26:X2:196:ASP:CB	34:i:364:TYR:CZ	2.90	0.42
26:X2:215:SER:HB2	26:X2:390:TRP:CH2	2.54	0.42
26:X2:285:VAL:O	26:X2:289:ILE:HG13	2.18	0.42
26:X3:57:PRO:HB3	26:X3:91:TYR:OH	2.19	0.42
26:X3:168:ARG:HD3	26:X3:170:ASN:HB3	2.02	0.42
26:X4:265:ILE:C	26:X4:267:ARG:N	2.77	0.42
26:X4:508:LEU:HG	26:X4:522:MET:HE3	2.01	0.42
27:Y3:189:GLU:HA	27:Y3:213:SER:O	2.20	0.42
28:Z1:411:LEU:HG	30:b1:251:ILE:HD13	2.01	0.42
28:Z1:530:LYS:HB2	30:b1:185:SER:HB3	0.82	0.42
28:Z2:180:ASP:HA	28:Z2:220:TYR:CD1	2.55	0.42
28:Z2:531:LYS:CB	30:b2:182:PRO:C	2.92	0.42
28:Z2:627:TYR:HA	28:Z2:661:GLN:OE1	2.19	0.42
28:Z3:111:GLN:HG3	28:Z3:168:TYR:CG	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:401:THR:CB	30:b3:253:SER:CA	2.80	0.42
28:Z4:400:LYS:O	30:b4:252:ALA:HB2	2.12	0.42
28:Z4:526:ARG:O	30:b4:206:ASN:CG	2.37	0.42
28:Z4:556:ASN:N	30:b4:212:PHE:CB	2.73	0.42
29:a3:44[B]:ILE:HD12	29:a3:100:PHE:CE2	2.54	0.42
30:b2:19:THR:HG22	30:b2:362:ASP:HB3	2.01	0.42
30:b2:200:LEU:HD12	30:b2:200:LEU:C	2.45	0.42
30:b3:328:TYR:CE1	30:b3:343:ASN:HB2	2.54	0.42
30:b4:10:LEU:HG	30:b4:379:SER:HA	2.01	0.42
1:A1:1220:PRO:HB2	2:A2:731:ILE:HG13	2.01	0.42
2:A2:874:VAL:CG2	6:D1:611:LYS:HZ3	2.29	0.42
2:A2:1144:ASP:H	3:A5:129:ASN:CG	2.18	0.42
2:A2:1149:THR:CA	3:A5:172:PRO:HD2	2.50	0.42
1:A3:1190:ILE:H	3:A6:618:ALA:HB2	1.85	0.42
1:A3:1227:PRO:HG3	3:A6:682:ARG:HH11	1.84	0.42
1:A3:1236:GLN:H	3:A6:581:LYS:H	1.55	0.42
2:A4:75:LEU:HA	3:A6:322:ASP:HB2	2.02	0.42
2:A4:87:GLN:OE1	3:A6:390:SER:O	2.38	0.42
2:A4:91:LEU:HD12	3:A6:104:PRO:CG	2.48	0.42
2:A4:556:PRO:CB	3:A6:454:GLN:HB3	2.49	0.42
2:A4:691:LYS:HD2	3:A6:316:ARG:HD3	0.85	0.42
2:A4:713:ILE:CD1	3:A6:462:LEU:HD13	2.36	0.42
2:A4:1150:LEU:CG	5:C4:731:LYS:HA	2.41	0.42
3:A5:1367:THR:HG21	28:Z2:844:CYS:O	2.15	0.42
3:A6:446:LEU:CG	6:D3:721:PRO:CB	2.97	0.42
3:A6:1361:ARG:O	28:Z4:877:ILE:O	2.38	0.42
3:A6:1399:ARG:HH21	28:Z4:968:ARG:C	2.27	0.42
6:D1:815:GLU:CD	6:D1:815:GLU:C	2.87	0.42
6:D2:734:PHE:CE1	6:D2:745:LEU:HD22	2.55	0.42
6:D4:570:VAL:O	6:D4:574:VAL:HG23	2.20	0.42
6:D5:734:PHE:CE1	6:D5:745:LEU:HD22	2.55	0.42
6:D6:570:VAL:O	6:D6:574:VAL:HG23	2.20	0.42
6:D7:815:GLU:C	6:D7:815:GLU:CD	2.87	0.42
8:F1:924:GLU:OE2	8:F1:988:ARG:NE	2.53	0.42
8:F1:1091:SER:OG	17:O2:238:ALA:O	2.37	0.42
8:F1:1779:GLY:O	8:F1:1783:LEU:HG	2.20	0.42
9:G1:256:GLN:HA	16:N2:403:VAL:HG11	2.02	0.42
11:I1:881:ILE:HG12	16:N1:400:LEU:HB3	2.01	0.42
11:I1:925:LEU:HB3	15:M1:596:ILE:HD13	2.02	0.42
11:I1:928:LEU:CD1	20:R1:155:GLU:CG	2.97	0.42
11:I1:938:CYS:O	17:O1:260:LEU:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:947:LEU:HA	16:N1:407:ALA:C	2.45	0.42
11:I1:957:SER:C	20:R1:166:LEU:CD1	2.93	0.42
11:I1:1017:VAL:CG2	17:O1:260:LEU:HD22	2.49	0.42
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG11	1.97	0.42
11:I1:1046:HIS:CA	17:O1:283:ALA:HB3	2.49	0.42
11:I1:1055:GLU:CD	17:O1:280:GLU:CB	2.87	0.42
11:I2:842:ASN:HA	15:M3:587:GLU:OE2	2.20	0.42
11:I2:884:LEU:CD1	16:N3:400:LEU:HD21	2.50	0.42
11:I2:898:VAL:HG23	17:O3:236:ASP:C	2.26	0.42
11:I2:982:GLN:N	15:M3:621:ARG:HH12	2.17	0.42
11:I2:1029:LEU:HD23	20:R3:170:LEU:H	1.80	0.42
17:O3:75:ILE:N	17:O3:76:PRO:CD	2.83	0.42
20:R1:147:LEU:O	20:R1:151:LYS:N	2.52	0.42
21:S1:1039:GLU:HG2	21:S1:1039:GLU:H	1.59	0.42
21:S2:1021:SER:C	21:S2:1023:MET:H	2.27	0.42
21:S2:1078:LEU:CD2	21:S2:1097:LYS:HG3	2.50	0.42
21:S2:1119:LEU:HB2	21:S2:1155:GLN:CD	2.43	0.42
21:S3:1078:LEU:HD21	21:S3:1097:LYS:HE3	2.01	0.42
21:S4:531:ARG:O	21:S4:535:GLY:O	2.38	0.42
22:T2:781:THR:O	22:T2:785:LYS:HG3	2.20	0.42
22:T2:829:MET:HE3	22:T2:846:MET:HA	2.02	0.42
23:U1:23:LYS:HE2	31:c2:468:THR:H	1.84	0.42
23:U1:293:ILE:HD11	23:U1:327:VAL:CG2	2.49	0.42
23:U2:35:PRO:HD3	31:c4:629:LEU:HD22	2.00	0.42
23:U2:75:TRP:CZ3	31:c4:552:ARG:CG	2.95	0.42
23:U2:206:ILE:HG22	23:U2:210:MET:HE2	2.02	0.42
26:X1:243:GLN:O	26:X1:247:LYS:HG3	2.19	0.42
26:X4:396:ASP:OD1	26:X4:401:LYS:HE3	2.20	0.42
27:Y1:131:ASP:O	27:Y1:133:ILE:HG13	2.20	0.42
27:Y1:189:GLU:HA	27:Y1:213:SER:O	2.20	0.42
27:Y2:76:SER:HB3	27:Y2:78:ASP:OD1	2.19	0.42
27:Y2:189:GLU:HA	27:Y2:213:SER:O	2.20	0.42
28:Z1:59:CYS:HB2	28:Z1:464:THR:OG1	2.19	0.42
28:Z2:232:ARG:HE	28:Z2:249:THR:HG1	1.62	0.42
28:Z2:508:LYS:O	28:Z2:512:THR:HG23	2.19	0.42
28:Z4:177:PHE:HD1	28:Z4:183:LEU:HD22	1.84	0.42
28:Z4:401:THR:HA	30:b4:253:SER:H	1.78	0.42
28:Z4:508:LYS:O	28:Z4:512:THR:HG23	2.19	0.42
28:Z4:527:SER:N	30:b4:206:ASN:OD1	2.51	0.42
29:a1:44[B]:ILE:HD12	29:a1:100:PHE:CE2	2.54	0.42
30:b3:115:ILE:HB	30:b3:123:THR:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:c1:229:ARG:O	31:c1:233:THR:HG23	2.19	0.42
31:c1:581:CYS:O	31:c1:585:THR:OG1	2.30	0.42
31:c2:219:GLN:HA	31:c2:222:GLU:OE2	2.20	0.42
31:c2:572:PRO:HB2	31:c2:638:ILE:HD12	2.01	0.42
31:c4:351:LEU:HD13	31:c4:422:TYR:CZ	2.54	0.42
31:c5:109:VAL:O	31:c5:109:VAL:HG12	2.20	0.42
31:c5:511:GLN:N	31:c5:512:PRO:CD	2.83	0.42
2:A2:982:THR:N	6:D1:497:PHE:N	2.42	0.42
2:A2:992:TYR:CD1	6:D1:238:ALA:HB2	2.55	0.42
2:A2:1125:LEU:HD23	3:A5:137:HIS:H	1.85	0.42
1:A3:1162:ASN:CG	3:A6:732:GLN:OE1	2.63	0.42
1:A3:1183:LEU:HD13	3:A6:635:ARG:CB	2.50	0.42
1:A3:1228:TYR:CG	3:A6:551:GLN:O	2.73	0.42
2:A4:93:ASP:O	3:A6:361:ASP:CG	2.63	0.42
2:A4:235:TYR:HD1	4:B4:347:LEU:HB2	1.69	0.42
2:A4:611:ILE:HG22	3:A6:508:LEU:CA	2.32	0.42
2:A4:671:SER:O	3:A6:100:SER:HB2	1.98	0.42
2:A4:679:TYR:CD1	3:A6:107:SER:OG	2.73	0.42
2:A4:689:LYS:O	3:A6:330:LEU:CD1	2.68	0.42
2:A4:705:ILE:HD11	3:A6:481:ARG:HG3	2.00	0.42
2:A4:754:HIS:HA	3:A6:543:GLY:O	2.17	0.42
2:A4:778:PHE:CE2	3:A6:524:ARG:NH1	2.88	0.42
2:A4:972:GLY:C	6:D3:206:VAL:N	2.64	0.42
3:A5:234:LEU:H	5:C2:737:LYS:CB	2.15	0.42
3:A5:1026:PRO:HG2	11:I5:73:TYR:HD1	1.60	0.42
3:A6:446:LEU:CG	6:D3:730:ARG:CG	2.89	0.42
3:A6:520:GLU:OE1	6:D3:681:ALA:CB	2.68	0.42
6:D1:734:PHE:CE1	6:D1:745:LEU:HD22	2.55	0.42
6:D3:734:PHE:CE1	6:D3:745:LEU:HD22	2.55	0.42
6:D6:584:LEU:HD22	6:D6:609:ILE:CD1	2.49	0.42
6:D6:734:PHE:CE1	6:D6:745:LEU:HD22	2.55	0.42
7:E5:94:ILE:O	7:E5:94:ILE:HG23	2.19	0.42
8:F1:1204:PRO:HD2	17:O2:255:GLY:H	1.75	0.42
9:G1:257:THR:HG21	16:N2:400:LEU:HB3	2.02	0.42
11:I1:966:TRP:HA	20:R1:154:ALA:HB2	2.02	0.42
11:I1:981:VAL:HG23	20:R1:147:LEU:HD21	1.14	0.42
11:I1:984:GLU:HA	15:M1:613:ASP:C	2.45	0.42
11:I1:987:GLY:C	15:M1:614:ASP:HB3	2.45	0.42
11:I1:1021:ILE:O	16:N1:406:HIS:ND1	2.53	0.42
11:I1:1043:LEU:N	20:R1:170:LEU:HD11	2.35	0.42
11:I1:1055:GLU:CD	17:O1:280:GLU:CG	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1108:PRO:C	16:N1:442:GLU:H	2.28	0.42
11:I1:1371:LEU:O	11:I1:1371:LEU:HD23	2.20	0.42
11:I1:1665:LEU:CA	11:I2:1668:HIS:N	2.82	0.42
11:I1:1666:THR:HG22	11:I2:1602:PHE:HD1	1.77	0.42
11:I2:945:LEU:HD21	17:O3:258:GLU:HB3	1.11	0.42
11:I2:1015:TYR:HA	16:N3:413:VAL:HA	1.38	0.42
11:I2:1045:PHE:HB2	15:M3:619:ILE:HD12	2.00	0.42
11:I2:1061:ASP:C	17:O3:277:GLU:OE1	2.63	0.42
11:I3:1273:GLU:C	26:X1:523:LEU:HA	2.44	0.42
11:I4:72:GLU:N	11:I4:72:GLU:OE1	2.52	0.42
11:I5:1277:LEU:HD23	26:X2:517:ASP:CB	2.47	0.42
21:S1:321:THR:HG22	21:S1:338:VAL:HG11	2.02	0.42
21:S1:1078:LEU:CD2	21:S1:1097:LYS:HG3	2.50	0.42
21:S3:178:ALA:HA	21:S3:183:SER:O	2.19	0.42
21:S3:445:ASN:OD1	21:S3:446:ALA:N	2.53	0.42
21:S3:896:ASN:O	21:S3:900:PHE:N	2.52	0.42
23:U1:16:SER:HB2	31:c2:470:ARG:CG	2.48	0.42
23:U1:23:LYS:HD2	31:c2:480:CYS:CA	2.46	0.42
23:U1:38:ILE:CG1	31:c2:473:THR:HA	2.35	0.42
23:U2:26:GLN:HB2	31:c4:491:VAL:CB	2.34	0.42
23:U2:413:ILE:HB	31:c4:540:HIS:HA	1.53	0.42
23:U3:293:ILE:HD11	23:U3:327:VAL:CG2	2.49	0.42
23:U4:359:ILE:HD13	23:U4:389:VAL:HG13	2.02	0.42
24:V1:208:TYR:CE2	24:V1:505:GLU:HG3	2.54	0.42
24:V1:365:SER:HB3	24:V1:368:GLU:HB2	2.01	0.42
24:V3:452:TRP:CD1	24:V3:475:THR:HA	2.54	0.42
24:V4:216:LEU:O	24:V4:217:LEU:HD23	2.19	0.42
26:X1:403:HIS:O	26:X1:405:ILE:HG23	2.20	0.42
26:X2:195:GLN:C	34:i:435:LYS:O	2.63	0.42
26:X2:358:CYS:C	34:i:423:LYS:HZ1	2.27	0.42
26:X2:508:LEU:HG	26:X2:522:MET:HE3	2.01	0.42
27:Y4:189:GLU:HA	27:Y4:213:SER:O	2.20	0.42
28:Z1:53:GLY:HA3	28:Z1:71:HIS:HB3	2.02	0.42
28:Z1:180:ASP:HA	28:Z1:220:TYR:CD1	2.55	0.42
28:Z2:521:SER:O	30:b2:238:ASN:HB3	2.13	0.42
28:Z3:177:PHE:HD1	28:Z3:183:LEU:HD22	1.84	0.42
28:Z3:531:LYS:NZ	30:b3:166:LEU:HB2	2.20	0.42
28:Z4:447:GLU:OE1	30:b4:250:GLY:C	2.63	0.42
28:Z4:561:GLN:HG3	30:b4:236:THR:C	2.40	0.42
29:a2:372[B]:ILE:HD12	29:a2:372[B]:ILE:HG23	1.81	0.42
31:c2:373:VAL:HG21	31:c2:411:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:c2:457:LEU:HD21	31:c2:488:LEU:CD1	2.50	0.42
31:c2:511:GLN:N	31:c2:512:PRO:CD	2.83	0.42
31:c4:109:VAL:O	31:c4:109:VAL:HG12	2.20	0.42
31:c4:359:LEU:HD21	31:c4:414:PRO:HG2	2.01	0.42
32:g:334:ASP:OD1	32:g:334:ASP:C	2.63	0.42
1:A1:1242:THR:HG22	1:A1:1245:ASP:H	1.85	0.41
2:A2:1349:ALA:O	2:A2:1350:VAL:HG12	2.20	0.41
1:A3:1153:LEU:HD11	3:A6:592:ASP:OD1	2.19	0.41
1:A3:1187:ASN:N	3:A6:642:ARG:HB2	2.34	0.41
1:A3:1201:ARG:NE	3:A6:549:ALA:H	2.18	0.41
1:A3:1230:TYR:CB	2:A4:726:ALA:HA	2.49	0.41
2:A4:83:GLN:O	3:A6:393:HIS:ND1	2.53	0.41
2:A4:88:THR:HG23	3:A6:102:CYS:O	2.19	0.41
2:A4:130:ILE:HG13	2:A4:566:GLY:HA2	2.01	0.41
2:A4:612:ALA:HB1	3:A6:509:LYS:HA	1.52	0.41
2:A4:873:PRO:HG2	6:D3:572:GLU:CD	2.39	0.41
2:A4:892:SER:O	3:A6:155:TYR:CZ	2.72	0.41
2:A4:983:LEU:HD12	6:D3:553:PHE:C	2.08	0.41
6:D5:234:LEU:HD12	31:c3:552:ARG:CZ	2.49	0.41
11:I1:892:HIS:C	11:I1:893:LEU:HD12	2.45	0.41
11:I1:955:LYS:HD2	17:O1:249:ARG:NH2	2.25	0.41
11:I1:1326:GLU:OE1	12:J1:255:LEU:HD22	2.19	0.41
11:I1:1668:HIS:O	11:I2:1668:HIS:CB	2.68	0.41
11:I2:892:HIS:C	11:I2:893:LEU:HD12	2.45	0.41
11:I2:947:LEU:N	17:O3:256:TYR:CD2	2.88	0.41
11:I2:1103:LEU:HD11	20:R3:175:GLN:HG3	2.02	0.41
11:I3:1371:LEU:O	11:I3:1371:LEU:HD23	2.20	0.41
11:I4:659:LYS:HE2	11:I4:664:LEU:HD21	2.02	0.41
11:I5:1370:VAL:CG2	12:J5:259:THR:HG21	2.41	0.41
19:Q3:192:GLN:HE21	19:Q3:192:GLN:HA	1.84	0.41
21:S1:445:ASN:OD1	21:S1:446:ALA:N	2.53	0.41
21:S1:660:LEU:HA	21:S2:1102:VAL:HG23	1.94	0.41
21:S2:445:ASN:OD1	21:S2:446:ALA:N	2.53	0.41
21:S3:1021:SER:C	21:S3:1023:MET:H	2.27	0.41
21:S4:536:HIS:O	21:S4:537:ALA:C	2.62	0.41
22:T1:819:ASN:CB	31:c5:57:GLU:HG3	2.49	0.41
22:T1:862:HIS:CD2	22:T1:903:LYS:HD3	2.54	0.41
22:T2:810:THR:OG1	22:T2:868:THR:HG21	2.19	0.41
22:T3:712:PHE:HZ	22:T3:751:ARG:HD3	1.84	0.41
23:U1:20:LYS:CG	31:c2:468:THR:O	2.63	0.41
23:U1:206:ILE:HG22	23:U1:210:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:398:ILE:CB	31:c2:475:ALA:HA	2.10	0.41
23:U2:22:PHE:HA	31:c4:562:LEU:HD13	0.88	0.41
23:U3:206:ILE:HG22	23:U3:210:MET:HE2	2.02	0.41
24:V1:162:THR:HG22	24:V1:163:LYS:N	2.35	0.41
24:V1:346:THR:CG2	31:c1:526:GLU:CG	2.93	0.41
25:W1:222:LEU:O	25:W1:233:ILE:HA	2.20	0.41
25:W3:217:LEU:HD13	25:W3:218:LEU:N	2.35	0.41
25:W4:63:HIS:HD2	25:W4:65:LYS:H	1.68	0.41
26:X1:78:ASN:HD21	26:X1:95:ILE:HG13	1.85	0.41
26:X1:159:ILE:HD13	26:X1:176:GLU:HA	2.01	0.41
26:X2:187:THR:HG23	34:i:443:THR:O	2.20	0.41
26:X2:191:ILE:CG1	34:i:443:THR:HB	2.50	0.41
26:X2:396:ASP:OD1	26:X2:401:LYS:HE3	2.20	0.41
26:X4:159:ILE:HD13	26:X4:176:GLU:HA	2.02	0.41
26:X4:215:SER:HB2	26:X4:390:TRP:CH2	2.54	0.41
26:X4:220:ASP:OD2	26:X4:222:GLU:HB3	2.20	0.41
27:Y1:29:SER:C	27:Y1:31:GLN:N	2.78	0.41
27:Y1:192:ILE:HG22	27:Y1:207:LYS:HG2	2.02	0.41
27:Y2:16:VAL:HG12	27:Y2:63:TRP:CD1	2.55	0.41
27:Y3:29:SER:C	27:Y3:31:GLN:N	2.78	0.41
28:Z1:447:GLU:OE1	30:b1:250:GLY:C	2.63	0.41
28:Z1:526:ARG:HD2	30:b1:240:LEU:HD22	2.00	0.41
28:Z1:533:LEU:CB	30:b1:164:CYS:SG	3.08	0.41
28:Z2:551:THR:HG23	30:b2:233:TRP:CZ3	2.26	0.41
28:Z2:555:LYS:HA	30:b2:212:PHE:HA	1.88	0.41
28:Z3:447:GLU:OE1	30:b3:250:GLY:C	2.63	0.41
28:Z3:555:LYS:HA	30:b3:212:PHE:HA	1.89	0.41
28:Z4:526:ARG:HB2	30:b4:208:ASN:H	1.86	0.41
28:Z4:533:LEU:CB	30:b4:164:CYS:SG	3.08	0.41
30:b4:170:ARG:HD3	30:b4:214:TRP:HZ3	1.85	0.41
31:c3:463:HIS:HA	31:c5:702:GLU:OE2	2.20	0.41
31:c4:568:HIS:O	31:c4:568:HIS:ND1	2.52	0.41
31:c5:359:LEU:HD21	31:c5:414:PRO:HG2	2.01	0.41
32:g:255:ALA:CB	32:g:273:MET:HE1	2.50	0.41
32:g:264:THR:HG22	32:g:266:GLU:H	1.84	0.41
1:A1:780:GLU:HG3	1:A1:822:ILE:HG23	2.01	0.41
1:A1:874:VAL:CG2	6:D3:272:VAL:HG11	2.21	0.41
1:A1:1200:ARG:CB	2:A2:727:ASN:CA	2.96	0.41
2:A2:781:ARG:CG	6:D1:673:ARG:CG	2.98	0.41
2:A2:865:ALA:O	6:D1:598:ILE:HD11	2.19	0.41
2:A2:868:GLN:NE2	6:D1:608:ILE:CA	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:973:GLU:CG	6:D1:192:TYR:CD1	3.02	0.41
2:A2:977:VAL:C	6:D1:493:ALA:HA	1.98	0.41
2:A2:1131:ILE:N	3:A5:140:ALA:CB	2.81	0.41
2:A2:1157:TYR:CE2	3:A5:167:TRP:CG	3.08	0.41
1:A3:1227:PRO:HB2	3:A6:551:GLN:HB2	2.01	0.41
2:A4:80:LYS:HG2	3:A6:323:THR:CB	2.50	0.41
2:A4:88:THR:N	3:A6:392:LEU:CA	2.73	0.41
2:A4:551:GLN:CD	3:A6:106:ALA:O	2.61	0.41
2:A4:616:ALA:HB2	3:A6:109:ASP:OD2	2.13	0.41
2:A4:643:ALA:CA	3:A6:501:VAL:O	2.68	0.41
2:A4:646:ILE:CB	3:A6:501:VAL:O	2.68	0.41
2:A4:671:SER:CA	3:A6:100:SER:HB3	2.44	0.41
2:A4:678:LEU:HD12	3:A6:103:ARG:HB2	1.36	0.41
2:A4:711:VAL:CA	3:A6:462:LEU:CD2	2.93	0.41
2:A4:727:ASN:HB2	3:A6:548:LEU:HD11	1.96	0.41
2:A4:780:GLU:OE2	6:D3:679:ILE:HG21	2.20	0.41
2:A4:824:ASN:C	3:A6:134:VAL:C	2.88	0.41
2:A4:885:LEU:HD13	3:A6:173:ASN:HA	1.20	0.41
2:A4:965:LYS:CE	6:D3:196:ILE:CA	2.95	0.41
2:A4:970:PHE:C	6:D3:202:GLN:CD	2.64	0.41
3:A5:1024:ASP:CG	11:I5:97:SER:N	2.51	0.41
3:A5:1367:THR:C	28:Z2:829:SER:CB	2.93	0.41
4:B5:354:LEU:HD12	4:B5:354:LEU:C	2.45	0.41
6:D2:570:VAL:O	6:D2:574:VAL:HG23	2.20	0.41
6:D7:584:LEU:HD22	6:D7:609:ILE:HD11	2.01	0.41
8:F2:1776:THR:O	8:F2:1776:THR:HG23	2.21	0.41
11:I1:615:ILE:HD12	11:I1:615:ILE:N	2.35	0.41
11:I1:842:ASN:CA	15:M1:587:GLU:CG	2.82	0.41
11:I1:880:MET:HG2	17:O1:247:TRP:CD2	2.54	0.41
11:I2:841:PHE:C	15:M3:591:ASP:CG	2.88	0.41
11:I2:891:LEU:HD12	16:N3:390:GLU:HA	2.01	0.41
11:I2:947:LEU:CD2	16:N3:411:GLN:CG	2.24	0.41
11:I2:997:SER:HG	16:N3:427:VAL:CG2	2.09	0.41
11:I2:1037:THR:HG22	20:R3:173:LEU:CD2	2.33	0.41
11:I2:1371:LEU:O	11:I2:1371:LEU:HD23	2.20	0.41
11:I3:1271:GLU:N	26:X1:529:TRP:CA	2.82	0.41
11:I4:892:HIS:C	11:I4:893:LEU:HD12	2.45	0.41
11:I5:506:THR:HG23	11:I5:598:MET:HE3	2.01	0.41
16:N4:368:ASN:OD1	17:O4:210:ARG:NH2	2.52	0.41
17:O1:75:ILE:N	17:O1:76:PRO:CD	2.83	0.41
21:S1:681:SER:N	21:S2:1122:VAL:CG1	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:934:HIS:C	21:S1:936:SER:N	2.78	0.41
21:S1:1003:LEU:O	21:S1:1006:GLU:HB3	2.20	0.41
21:S1:1070:LYS:HZ3	21:S1:1121:GLU:HB3	1.84	0.41
21:S2:965:ALA:HB2	21:S2:1021:SER:HB2	2.02	0.41
21:S2:1037:CYS:HB3	21:S2:1039:GLU:CG	2.47	0.41
21:S3:681:SER:CA	21:S4:1144:LEU:O	2.68	0.41
21:S3:1055:LEU:N	21:S3:1055:LEU:HD22	2.36	0.41
21:S3:1097:LYS:NZ	21:S3:1097:LYS:HB3	2.34	0.41
22:T2:822:LEU:HD21	22:T2:880:MET:HG3	2.00	0.41
22:T2:862:HIS:CD2	22:T2:903:LYS:HD3	2.55	0.41
23:U1:242:LEU:O	23:U1:243:TRP:C	2.63	0.41
23:U2:36:PHE:C	31:c4:559:ILE:N	2.72	0.41
23:U2:408:ASP:CG	31:c4:545:PRO:HD3	2.45	0.41
23:U4:104:LEU:HG	23:U4:224:ASP:HB3	2.02	0.41
24:V1:339:LEU:HB2	31:c1:627:ASP:HB2	1.98	0.41
24:V3:345:SER:HB3	24:V3:371:PHE:HE2	1.84	0.41
24:V3:392:TYR:O	24:V3:394:GLN:N	2.44	0.41
24:V3:531:LEU:O	24:V3:532:LYS:HG2	2.19	0.41
25:W1:223:ALA:HB2	25:W1:262:TRP:CZ2	2.55	0.41
25:W2:63:HIS:HD2	25:W2:65:LYS:H	1.68	0.41
25:W4:223:ALA:HB2	25:W4:262:TRP:CZ2	2.55	0.41
26:X2:192:LEU:N	34:i:443:THR:HG22	2.22	0.41
26:X2:310:VAL:HG13	34:i:404:ARG:HD2	1.67	0.41
26:X2:312:LYS:HG2	34:i:471:ILE:HB	2.01	0.41
26:X2:360:PHE:HB2	34:i:423:LYS:HE3	2.02	0.41
27:Y2:221:ALA:HA	27:Y2:222:PRO:HD3	1.95	0.41
28:Z2:111:GLN:HG3	28:Z2:168:TYR:CG	2.55	0.41
28:Z3:526:ARG:HB2	30:b3:208:ASN:H	1.85	0.41
29:a1:8:PHE:CE1	29:a1:371:ALA:HB2	2.55	0.41
29:a1:231[A]:HIS:CE1	29:a1:248:ARG:NH2	2.87	0.41
29:a3:8:PHE:CE1	29:a3:371:ALA:HB2	2.55	0.41
29:a3:231[A]:HIS:CE1	29:a3:248:ARG:NH2	2.87	0.41
31:c2:222:GLU:HG3	31:c2:223:SER:N	2.34	0.41
31:c3:457:LEU:HD21	31:c3:488:LEU:CD1	2.50	0.41
31:c4:219:GLN:HA	31:c4:222:GLU:OE2	2.20	0.41
31:c4:315:LEU:HG	31:c4:385:LEU:HD13	2.01	0.41
31:c5:457:LEU:HD21	31:c5:488:LEU:CD1	2.50	0.41
32:g:119:ILE:HG22	32:g:143:LYS:HG3	2.02	0.41
32:g:232:PRO:HA	32:g:233:PRO:HD3	1.93	0.41
33:h:209:ILE:HG23	33:h:211:GLU:OE1	2.20	0.41
2:A2:867:GLU:HG3	6:D1:605:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:879:LEU:HD12	6:D1:567:LEU:HG	2.02	0.41
1:A3:1166:LEU:C	3:A6:594:LEU:CB	2.77	0.41
1:A3:1196:GLU:CG	3:A6:611:ILE:H	2.30	0.41
1:A3:1261:TYR:CE1	3:A6:621:GLN:HB2	2.05	0.41
2:A4:90:GLN:CG	3:A6:427:MET:CG	2.99	0.41
2:A4:674:ASP:CA	3:A6:97:ASP:OD1	2.69	0.41
2:A4:689:LYS:HB2	3:A6:378:ILE:CD1	2.27	0.41
2:A4:734:LEU:HD23	3:A6:548:LEU:N	2.36	0.41
2:A4:781:ARG:NE	6:D3:633:LYS:CE	2.72	0.41
2:A4:800:LEU:HD23	3:A6:317:GLY:HA3	2.01	0.41
2:A4:882:SER:OG	3:A6:133:LYS:HD3	2.20	0.41
2:A4:947:LYS:HD3	3:A6:235:TYR:CZ	2.52	0.41
2:A4:1054:SER:CB	6:D4:762:ARG:CZ	2.94	0.41
2:A4:1155:ASN:OD1	5:C4:735:ILE:HA	2.21	0.41
3:A5:234:LEU:CB	5:C2:737:LYS:CB	2.99	0.41
3:A5:1408:GLU:HB2	28:Z2:917:ASP:HA	2.02	0.41
3:A6:446:LEU:CD1	6:D3:721:PRO:HB3	2.34	0.41
3:A6:780:GLU:HG3	3:A6:822:ILE:HG23	2.01	0.41
3:A6:1395:LYS:N	28:Z4:912:ASP:C	2.78	0.41
4:B2:354:LEU:HD12	4:B2:354:LEU:C	2.45	0.41
6:D2:472:PHE:O	6:D2:476:VAL:HG23	2.21	0.41
6:D2:649:VAL:HG12	6:D2:660:LYS:HD2	2.01	0.41
6:D3:570:VAL:O	6:D3:574:VAL:HG23	2.20	0.41
11:I1:535:ASP:OD1	11:I1:536:GLU:N	2.53	0.41
11:I1:850:ILE:CG2	15:M1:594:LYS:CG	2.96	0.41
11:I1:853:ILE:HD12	15:M1:598:GLU:OE1	2.20	0.41
11:I1:914:ASN:N	15:M1:587:GLU:HB3	2.35	0.41
11:I1:916:ALA:HA	16:N1:385:MET:SD	2.59	0.41
11:I1:1033:PRO:HB2	20:R1:177:LEU:HD12	1.20	0.41
11:I3:659:LYS:HE2	11:I3:664:LEU:HD21	2.02	0.41
11:I5:535:ASP:OD1	11:I5:536:GLU:N	2.53	0.41
11:I5:1371:LEU:O	11:I5:1371:LEU:HD23	2.20	0.41
16:N1:368:ASN:OD1	17:O1:210:ARG:NH2	2.52	0.41
21:S3:934:HIS:C	21:S3:936:SER:N	2.78	0.41
22:T4:822:LEU:O	22:T4:823:PHE:C	2.64	0.41
24:V3:162:THR:HG22	24:V3:163:LYS:N	2.35	0.41
24:V4:345:SER:HB3	24:V4:371:PHE:HE2	1.84	0.41
24:V4:440:ARG:HB3	25:W4:285:LEU:HD22	2.02	0.41
25:W4:78:LYS:HA	25:W4:96:ALA:HB2	2.03	0.41
25:W4:227:GLN:C	25:W4:229:ARG:H	2.29	0.41
26:X1:149:GLU:HG3	26:X1:186:ARG:NE	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:454:LEU:HD21	26:X1:503:VAL:HG21	2.02	0.41
26:X2:197:VAL:HG12	34:i:366:PHE:O	2.20	0.41
26:X2:283:ASP:C	34:i:479:THR:OG1	2.59	0.41
26:X2:368:LEU:HB2	34:i:438:LEU:HA	2.02	0.41
26:X2:480:GLU:O	26:X2:483:PRO:HD2	2.21	0.41
26:X3:78:ASN:HD21	26:X3:95:ILE:HG13	1.85	0.41
26:X4:403:HIS:O	26:X4:405:ILE:HG23	2.20	0.41
28:Z1:287:LEU:O	28:Z1:300:MET:HA	2.20	0.41
28:Z1:535:ILE:CA	30:b1:182:PRO:HB3	2.50	0.41
28:Z3:287:LEU:O	28:Z3:300:MET:HA	2.20	0.41
28:Z4:153:GLN:OE1	28:Z4:193:HIS:HA	2.20	0.41
28:Z4:287:LEU:O	28:Z4:300:MET:HA	2.20	0.41
29:a4:8:PHE:CE1	29:a4:371:ALA:HB2	2.56	0.41
30:b1:237:LEU:HD13	30:b1:280:TRP:CD2	2.55	0.41
30:b2:237:LEU:HD13	30:b2:280:TRP:CD2	2.56	0.41
31:c2:229:ARG:O	31:c2:233:THR:HG23	2.19	0.41
31:c2:359:LEU:HD21	31:c2:414:PRO:HG2	2.01	0.41
31:c3:359:LEU:HD21	31:c3:414:PRO:HG2	2.01	0.41
31:c3:694:ILE:HG22	31:c3:694:ILE:O	2.20	0.41
31:c4:572:PRO:HB2	31:c4:638:ILE:HD12	2.01	0.41
32:g:158:ASN:HA	32:g:200:TRP:CD1	2.55	0.41
2:A2:857:LYS:O	6:D1:606:LYS:HD2	2.20	0.41
2:A2:909:LYS:HB2	6:D1:555:ARG:HB3	1.71	0.41
2:A2:971:ALA:O	6:D1:203:PRO:HB2	2.20	0.41
1:A3:1231:VAL:HG12	3:A6:576:VAL:HB	1.47	0.41
1:A3:1231:VAL:HG23	3:A6:613:ALA:HA	1.87	0.41
2:A4:80:LYS:CE	3:A6:323:THR:HB	2.49	0.41
2:A4:543:GLY:C	3:A6:365:MET:HG3	2.45	0.41
2:A4:574:ARG:NH2	3:A6:455:LEU:C	2.75	0.41
2:A4:649:GLY:C	3:A6:505:ALA:HB2	2.45	0.41
2:A4:649:GLY:HA2	3:A6:505:ALA:HB2	2.01	0.41
2:A4:681:THR:HG22	3:A6:431:PHE:O	2.19	0.41
2:A4:691:LYS:HE3	3:A6:332:ASN:CA	2.46	0.41
2:A4:731:ILE:CG2	3:A6:95:TYR:CB	2.91	0.41
2:A4:757:LEU:N	3:A6:541:PRO:O	2.52	0.41
2:A4:795:GLN:CB	3:A6:249:SER:OG	2.68	0.41
2:A4:891:GLY:CA	3:A6:231:SER:OG	2.67	0.41
2:A4:942:ASN:HB3	4:B6:355:PRO:C	2.38	0.41
2:A4:942:ASN:O	4:B6:355:PRO:C	2.63	0.41
2:A4:983:LEU:HG	6:D3:528:PHE:HE1	0.65	0.41
3:A5:159:SER:N	5:C2:742:ASP:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:773:PHE:CZ	3:A5:818:LEU:HD12	2.48	0.41
3:A6:442:ARG:NH1	6:D3:695:LEU:HD11	2.24	0.41
3:A6:564:ASN:CG	6:D3:679:ILE:HD11	2.30	0.41
3:A6:1413:SER:C	28:Z4:994:ILE:C	2.88	0.41
6:D1:190:TYR:OH	6:D1:600:LYS:HE2	2.21	0.41
6:D2:245:ARG:HG3	6:D2:503:LEU:HD21	2.03	0.41
6:D4:190:TYR:OH	6:D4:600:LYS:HE2	2.21	0.41
8:F2:215:ASP:OD1	8:F2:218:ARG:NH2	2.52	0.41
9:G1:263:MET:SD	16:N2:407:ALA:CB	3.03	0.41
9:G2:256:GLN:NE2	17:O4:263:GLN:HB2	2.35	0.41
11:I1:840:LEU:HD21	17:O1:244:GLU:HA	0.89	0.41
11:I1:885:GLU:CD	17:O1:249:ARG:NE	2.79	0.41
11:I1:954:GLU:CB	16:N1:399:HIS:O	2.65	0.41
11:I1:990:GLU:N	15:M1:614:ASP:OD1	2.52	0.41
11:I1:1047:CYS:HA	15:M1:619:ILE:HG23	1.01	0.41
11:I1:1605:LEU:C	11:I1:1605:LEU:HD12	2.46	0.41
11:I1:1610:VAL:HG11	11:I2:1669:ARG:CZ	2.50	0.41
11:I2:841:PHE:O	15:M3:587:GLU:HG3	2.20	0.41
11:I2:990:GLU:OE1	15:M3:611:LYS:CD	2.61	0.41
11:I2:1037:THR:HG21	20:R3:170:LEU:N	2.35	0.41
11:I2:1037:THR:HG1	15:M3:624:ASN:CG	2.26	0.41
11:I2:1114:VAL:HG21	16:N3:436:ALA:H	1.84	0.41
11:I2:1608:SER:O	12:J1:299:GLY:HA2	2.20	0.41
15:M3:614:ASP:HB2	15:M3:615:PRO:HD2	2.03	0.41
17:O2:75:ILE:N	17:O2:76:PRO:CD	2.83	0.41
21:S1:681:SER:HA	21:S2:1122:VAL:CB	2.39	0.41
21:S1:1021:SER:C	21:S1:1023:MET:H	2.27	0.41
21:S2:321:THR:HG22	21:S2:338:VAL:HG11	2.02	0.41
21:S2:934:HIS:C	21:S2:936:SER:N	2.78	0.41
21:S2:997:GLU:O	21:S2:1000:ARG:HB2	2.21	0.41
21:S2:1055:LEU:N	21:S2:1055:LEU:HD22	2.35	0.41
21:S3:348:ASN:HB2	21:S3:412:PHE:O	2.20	0.41
21:S3:980:ALA:HB2	22:T3:897:LEU:HB3	2.02	0.41
22:T1:675:ILE:HD13	22:T1:675:ILE:HA	1.87	0.41
22:T1:712:PHE:HZ	22:T1:751:ARG:HD3	1.84	0.41
22:T1:781:THR:O	22:T1:785:LYS:HG3	2.20	0.41
22:T1:825:ASP:OD1	31:c5:55:VAL:CG1	2.67	0.41
22:T4:810:THR:OG1	22:T4:868:THR:HG21	2.19	0.41
23:U1:382:LYS:HA	23:U1:383:PRO:HD3	1.77	0.41
23:U1:401:PRO:CG	31:c2:552:ARG:C	2.82	0.41
23:U2:343:ILE:HD13	23:U2:344:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:396:LEU:HD11	31:c4:549:ALA:N	2.33	0.41
23:U2:431:ILE:HA	31:c4:481:ILE:HG12	1.77	0.41
23:U2:437:ASN:ND2	31:c4:198:ARG:HH22	2.13	0.41
23:U3:104:LEU:HG	23:U3:224:ASP:HB3	2.02	0.41
24:V1:452:TRP:CD1	24:V1:475:THR:HA	2.54	0.41
24:V4:373:LEU:HB3	24:V4:376:LEU:HD12	2.02	0.41
24:V4:452:TRP:CD1	24:V4:475:THR:HA	2.54	0.41
25:W3:222:LEU:O	25:W3:233:ILE:HA	2.20	0.41
26:X2:95:ILE:HA	26:X2:96:PRO:HD3	1.90	0.41
26:X2:295:TYR:HD2	34:i:417:GLY:HA3	1.86	0.41
26:X2:295:TYR:HH	34:i:447:CYS:HA	1.62	0.41
26:X2:299:SER:CB	34:i:333:LEU:CB	2.85	0.41
26:X2:315:GLN:HB2	34:i:399:PRO:CA	2.50	0.41
26:X2:369:GLU:CB	34:i:428:LEU:HD22	2.00	0.41
26:X3:403:HIS:O	26:X3:405:ILE:HG23	2.20	0.41
27:Y4:16:VAL:HG12	27:Y4:63:TRP:CD1	2.55	0.41
27:Y4:131:ASP:O	27:Y4:133:ILE:HG13	2.20	0.41
28:Z1:561:GLN:HG2	30:b1:235:LEU:C	2.43	0.41
28:Z2:153:GLN:OE1	28:Z2:193:HIS:HA	2.20	0.41
28:Z2:167:PHE:O	28:Z2:174:SER:HB2	2.21	0.41
28:Z2:411:LEU:HG	30:b2:251:ILE:HD13	2.01	0.41
28:Z2:521:SER:HB2	30:b2:238:ASN:O	2.20	0.41
28:Z2:659:TYR:OH	28:Z2:743:ASN:C	2.64	0.41
28:Z3:180:ASP:HA	28:Z3:220:TYR:CD1	2.55	0.41
28:Z3:521:SER:HB2	30:b3:238:ASN:O	2.20	0.41
28:Z3:554:PHE:CA	30:b3:233:TRP:O	2.61	0.41
28:Z4:556:ASN:ND2	30:b4:166:LEU:HD22	2.30	0.41
30:b2:170:ARG:HD3	30:b2:214:TRP:HZ3	1.85	0.41
30:b3:237:LEU:HD13	30:b3:280:TRP:CD2	2.56	0.41
31:c1:359:LEU:HD21	31:c1:414:PRO:HG2	2.01	0.41
31:c4:385:LEU:CD2	31:c4:401:LEU:HD11	2.47	0.41
31:c4:410:ASP:O	31:c4:411:VAL:HG12	2.21	0.41
31:c4:694:ILE:HG22	31:c4:694:ILE:O	2.20	0.41
1:A1:834:GLU:CA	6:D3:302:PRO:HB3	2.49	0.41
1:A1:1202:GLU:N	2:A2:729:SER:C	2.74	0.41
2:A2:974:PRO:CA	6:D1:499:LEU:HG	2.50	0.41
2:A2:1019:ARG:NH2	6:D1:237:PRO:O	2.47	0.41
2:A2:1136:LYS:HE2	3:A5:135:PHE:O	2.20	0.41
2:A2:1155:ASN:OD1	5:C2:735:ILE:HA	2.20	0.41
2:A2:1305:ALA:CB	2:A2:1306:PRO:HD3	2.37	0.41
1:A3:780:GLU:HG3	1:A3:822:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1201:ARG:NE	3:A6:546:ASN:O	2.20	0.41
1:A3:1235:ILE:HG23	3:A6:637:THR:CG2	2.50	0.41
1:A3:1238:ILE:O	3:A6:585:ASN:HB2	2.19	0.41
2:A4:76:PRO:N	3:A6:323:THR:HG23	2.20	0.41
2:A4:520:GLU:OE1	2:A4:521:ASN:ND2	2.50	0.41
2:A4:705:ILE:CG2	3:A6:480:VAL:CB	2.97	0.41
2:A4:779:ASP:O	6:D3:679:ILE:CG1	2.63	0.41
2:A4:900:THR:CA	3:A6:137:HIS:CE1	3.04	0.41
6:D7:472:PHE:O	6:D7:476:VAL:HG23	2.21	0.41
6:D7:734:PHE:CE1	6:D7:745:LEU:HD22	2.55	0.41
8:F1:1836:GLU:O	8:F1:1839:VAL:HG12	2.20	0.41
8:F2:1779:GLY:O	8:F2:1783:LEU:HG	2.20	0.41
11:I1:884:LEU:HB2	17:O1:246:LEU:HD21	1.95	0.41
11:I1:934:LEU:CD1	15:M1:599:ILE:HA	2.50	0.41
11:I1:955:LYS:HZ2	17:O1:249:ARG:CZ	2.33	0.41
11:I1:1035:GLN:HG2	15:M1:624:ASN:O	2.21	0.41
11:I1:1051:LYS:C	11:I1:1052:LEU:HD12	2.40	0.41
11:I1:1070:LEU:CA	16:N1:429:GLU:CG	2.81	0.41
11:I1:1603:ARG:HH22	11:I2:1662:ARG:HD2	1.84	0.41
11:I1:1636:TYR:CZ	11:I2:1674:HIS:NE2	2.89	0.41
11:I2:884:LEU:HD12	16:N3:400:LEU:HD21	2.01	0.41
11:I2:898:VAL:HG23	17:O3:237:PRO:N	2.21	0.41
11:I2:952:LEU:O	15:M3:599:ILE:CG2	2.68	0.41
11:I2:963:LEU:HB3	20:R3:166:LEU:O	2.21	0.41
11:I2:977:ASN:H	20:R3:148:ALA:C	2.24	0.41
11:I2:1037:THR:HG1	15:M3:620:VAL:CG1	2.32	0.41
11:I2:1103:LEU:HD13	20:R3:174:ARG:CB	2.35	0.41
11:I3:892:HIS:C	11:I3:893:LEU:HD12	2.45	0.41
11:I4:1605:LEU:HD12	11:I4:1605:LEU:C	2.46	0.41
11:I5:1077:LEU:HD23	11:I5:1077:LEU:C	2.46	0.41
12:J1:247:ASP:O	12:J1:251:TYR:N	2.51	0.41
16:N2:308:ILE:O	16:N2:312:ARG:N	2.53	0.41
21:S1:408:THR:HG23	21:S1:410:PRO:HD3	2.03	0.41
21:S1:680:PRO:CB	21:S2:1071:LEU:CA	2.79	0.41
21:S1:968:LYS:HB3	21:S1:968:LYS:HE2	1.65	0.41
21:S2:408:THR:HG23	21:S2:410:PRO:HD3	2.03	0.41
21:S3:277:VAL:HB	21:S3:286:PHE:CZ	2.54	0.41
21:S3:678:GLU:CB	21:S4:1142:PHE:H	2.20	0.41
21:S3:976:LEU:HG	22:T3:882:SER:HB3	2.01	0.41
21:S3:997:GLU:OE2	21:S3:997:GLU:HA	2.20	0.41
21:S4:980:ALA:HB2	22:T4:897:LEU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1078:LEU:CD2	21:S4:1097:LYS:HG3	2.50	0.41
22:T1:755:GLU:OE2	31:c5:60:PRO:HD3	2.20	0.41
22:T1:829:MET:HE3	22:T1:846:MET:HA	2.02	0.41
23:U2:24:ILE:O	31:c4:489:LEU:CB	2.68	0.41
23:U4:341:HIS:HA	23:U4:342:PRO:HD3	1.89	0.41
24:V1:153:LYS:HA	25:W1:261:SER:HB2	2.01	0.41
24:V2:539:PHE:CD1	24:V2:539:PHE:C	2.98	0.41
24:V3:373:LEU:HB3	24:V3:376:LEU:HD12	2.02	0.41
24:V3:416:ASP:HA	24:V3:443:THR:CG2	2.44	0.41
25:W3:63:HIS:HD2	25:W3:65:LYS:H	1.68	0.41
26:X1:152:LEU:HD23	26:X1:152:LEU:HA	1.85	0.41
26:X2:78:ASN:HD21	26:X2:95:ILE:HG13	1.85	0.41
26:X2:367:SER:HA	34:i:366:PHE:CD1	2.44	0.41
26:X3:159:ILE:HD13	26:X3:176:GLU:HA	2.02	0.41
26:X4:352:THR:OG1	26:X4:355:GLU:HG3	2.21	0.41
28:Z1:291:LEU:HA	28:Z1:292:PRO:HD3	1.76	0.41
28:Z2:554:PHE:CD2	30:b2:234:LEU:N	2.82	0.41
28:Z2:558:LEU:HD23	30:b2:236:THR:HB	2.01	0.41
28:Z3:560:ASN:HD22	30:b3:211:ILE:CG2	2.19	0.41
28:Z4:531:LYS:NZ	30:b4:166:LEU:HB2	2.20	0.41
30:b1:170:ARG:HD3	30:b1:214:TRP:HZ3	1.85	0.41
30:b1:191:GLN:O	30:b1:201:ILE:HG22	2.21	0.41
31:c5:568:HIS:O	31:c5:568:HIS:ND1	2.52	0.41
31:c5:609:VAL:O	31:c5:612:LEU:N	2.54	0.41
1:A3:1017:THR:HG21	6:D3:819:ASN:CG	2.44	0.41
1:A3:1254:LEU:HD23	3:A6:634:ASP:HA	2.01	0.41
2:A4:85:VAL:HG22	3:A6:405:PHE:HD1	1.83	0.41
2:A4:87:GLN:HG2	3:A6:408:ALA:C	2.46	0.41
2:A4:669:LEU:CA	3:A6:542:LEU:CG	2.99	0.41
2:A4:782:VAL:HA	3:A6:524:ARG:HD3	1.29	0.41
2:A4:793:SER:OG	3:A6:188:ALA:HA	2.20	0.41
2:A4:806:PHE:HB3	3:A6:470:ARG:CB	2.48	0.41
2:A4:827:ILE:C	3:A6:132:ASP:HA	2.32	0.41
2:A4:868:GLN:CD	6:D3:570:VAL:HB	2.45	0.41
2:A4:947:LYS:H	4:B6:352:ALA:H	1.69	0.41
2:A4:976:LEU:HD11	6:D3:245:ARG:HD3	2.03	0.41
2:A4:1151:THR:HA	5:C4:733:LEU:CG	2.42	0.41
3:A5:172:PRO:HD3	5:C2:730:HIS:NE2	2.31	0.41
3:A5:906:ILE:CG2	3:A5:965:LYS:HG2	2.51	0.41
3:A5:1091:VAL:HG23	11:I5:37:GLU:HA	1.53	0.41
6:D2:190:TYR:OH	6:D2:600:LYS:HE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D2:647:SER:HB3	6:D2:648:PRO:HD3	2.03	0.41
6:D3:647:SER:HB3	6:D3:648:PRO:HD3	2.03	0.41
6:D5:234:LEU:HD11	31:c3:552:ARG:CZ	2.50	0.41
6:D5:238:ALA:HB3	31:c3:478:SER:HB3	2.02	0.41
6:D6:245:ARG:HG3	6:D6:503:LEU:HD21	2.03	0.41
7:E7:94:ILE:O	7:E7:94:ILE:HG23	2.19	0.41
8:F1:1544:ALA:N	8:F1:1545:PRO:CD	2.83	0.41
11:I1:659:LYS:HE2	11:I1:664:LEU:HD21	2.02	0.41
11:I1:842:ASN:HA	15:M1:587:GLU:HG2	1.94	0.41
11:I1:877:ILE:HG13	17:O1:251:ILE:HA	1.20	0.41
11:I1:1107:SER:O	16:N1:439:ARG:CG	2.67	0.41
11:I2:797:LEU:HD21	17:O3:245:GLU:N	2.34	0.41
11:I2:884:LEU:CD2	15:M3:599:ILE:HD11	2.49	0.41
11:I2:887:GLN:HG3	16:N3:393:ILE:C	2.30	0.41
11:I2:895:ARG:CZ	16:N3:386:MET:HE2	2.46	0.41
11:I2:923:GLY:HA3	15:M3:591:ASP:O	2.16	0.41
11:I2:956:ILE:HG23	20:R3:166:LEU:HB2	2.02	0.41
11:I2:1021:ILE:C	16:N3:406:HIS:ND1	2.79	0.41
11:I3:1182:GLN:NE2	12:J3:245:GLU:CB	2.80	0.41
11:I3:1605:LEU:C	11:I3:1605:LEU:HD12	2.46	0.41
11:I5:892:HIS:C	11:I5:893:LEU:HD12	2.45	0.41
11:I5:1276:GLN:H	26:X2:521:TRP:CD1	2.27	0.41
21:S1:348:ASN:HB2	21:S1:412:PHE:O	2.20	0.41
21:S1:680:PRO:N	21:S2:1127:GLN:CG	2.79	0.41
21:S1:965:ALA:HB2	21:S1:1021:SER:HB2	2.02	0.41
21:S2:896:ASN:O	21:S2:900:PHE:N	2.52	0.41
21:S2:997:GLU:OE2	21:S2:997:GLU:HA	2.21	0.41
21:S2:1058:ILE:HG22	21:S2:1059:ASP:N	2.35	0.41
21:S3:1039:GLU:HG2	21:S3:1039:GLU:H	1.59	0.41
21:S4:997:GLU:O	21:S4:1000:ARG:HB2	2.21	0.41
22:T3:822:LEU:O	22:T3:823:PHE:C	2.64	0.41
22:T4:797:MET:HE2	22:T4:797:MET:HB3	1.98	0.41
23:U1:198:GLU:HB2	31:c1:622:ILE:CG1	2.49	0.41
23:U2:75:TRP:HZ2	31:c4:477:GLU:CG	2.34	0.41
23:U2:242:LEU:O	23:U2:243:TRP:C	2.64	0.41
23:U2:398:ILE:CD1	31:c4:555:VAL:HG22	2.49	0.41
23:U2:407:VAL:CA	31:c4:542:LYS:CB	2.99	0.41
24:V1:247:TYR:CZ	24:V1:260:LEU:HD13	2.56	0.41
24:V4:153:LYS:HA	25:W4:261:SER:HB2	2.01	0.41
24:V4:330:ASP:OD2	24:V4:332:ARG:NH2	2.51	0.41
25:W1:217:LEU:HD13	25:W1:218:LEU:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:396:ASP:OD1	26:X1:401:LYS:HE3	2.20	0.41
26:X2:57:PRO:HB2	26:X2:82:ILE:HD11	2.03	0.41
26:X2:531:LEU:HB3	26:X2:534:ILE:CG1	2.51	0.41
27:Y2:192:ILE:HG22	27:Y2:207:LYS:HG2	2.02	0.41
27:Y3:76:SER:HB3	27:Y3:78:ASP:OD1	2.19	0.41
28:Z1:410:ASN:N	30:b1:251:ILE:HD11	2.33	0.41
28:Z1:454:LYS:O	28:Z1:458:ASN:ND2	2.51	0.41
28:Z1:659:TYR:OH	28:Z1:743:ASN:C	2.64	0.41
28:Z2:526:ARG:HB2	30:b2:208:ASN:H	1.85	0.41
28:Z2:558:LEU:HA	30:b2:236:THR:CA	2.45	0.41
28:Z3:533:LEU:CB	30:b3:164:CYS:SG	3.08	0.41
31:c4:457:LEU:HD21	31:c4:488:LEU:CD1	2.50	0.41
31:c4:511:GLN:N	31:c4:512:PRO:CD	2.83	0.41
32:g:119:ILE:HG22	32:g:143:LYS:CG	2.50	0.41
41:m2:8:UNK:O	41:m2:9:UNK:C	2.68	0.41
1:A1:1204:TRP:HD1	2:A2:645:PHE:CE1	2.23	0.41
1:A1:1392:ARG:HB3	2:A2:889:VAL:HA	2.02	0.41
2:A2:551:GLN:HB2	2:A2:574:ARG:HD2	2.01	0.41
2:A2:826:ASN:CG	6:D1:633:LYS:O	2.64	0.41
2:A2:1094:ILE:CB	6:D2:759:GLN:CD	2.91	0.41
2:A4:687:LEU:CD2	3:A6:397:LEU:HA	2.51	0.41
2:A4:704:THR:H	3:A6:463:ASP:HA	1.43	0.41
2:A4:706:PRO:CA	3:A6:480:VAL:HG11	2.01	0.41
2:A4:720:LEU:HA	3:A6:495:ASP:HB2	2.03	0.41
2:A4:737:PRO:HA	3:A6:89:LEU:CA	2.50	0.41
2:A4:801:THR:OG1	3:A6:381:LEU:CA	2.68	0.41
2:A4:851:ASP:HA	3:A6:171:HIS:CB	2.42	0.41
2:A4:895:PRO:HB3	4:B6:344:ALA:HB3	2.01	0.41
2:A4:974:PRO:C	6:D3:496:LEU:HA	2.45	0.41
2:A4:1349:ALA:O	2:A4:1350:VAL:HG12	2.20	0.41
3:A5:150:PHE:CE2	5:C2:741:THR:HG22	2.56	0.41
3:A5:1406:GLY:C	28:Z2:917:ASP:O	2.63	0.41
3:A6:1277:TRP:CG	3:A6:1278:PRO:HD3	2.55	0.41
3:A6:1393:THR:CB	28:Z4:910:GLN:O	2.67	0.41
4:B6:354:LEU:HD12	4:B6:354:LEU:C	2.45	0.41
6:D3:691:LEU:HD11	6:D3:717:LEU:HD23	2.03	0.41
6:D4:647:SER:HB3	6:D4:648:PRO:HD3	2.03	0.41
6:D7:190:TYR:OH	6:D7:600:LYS:HE2	2.21	0.41
8:F1:701:GLU:OE2	8:F1:701:GLU:N	2.54	0.41
9:G2:257:THR:CG2	17:O4:256:TYR:N	2.56	0.41
11:I1:940:LEU:HD11	17:O1:258:GLU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:954:GLU:HB2	16:N1:403:VAL:CA	2.44	0.41
11:I1:976:ARG:NH2	20:R1:146:LEU:HB2	2.15	0.41
11:I1:1017:VAL:N	16:N1:412:ASN:CB	2.83	0.41
11:I1:1103:LEU:HD21	20:R1:175:GLN:HG2	2.01	0.41
11:I2:917:TYR:CD1	15:M3:586:ASP:O	2.73	0.41
11:I2:1040:HIS:HA	16:N3:434:LEU:HD13	2.03	0.41
11:I2:1049:LEU:HD13	20:R3:146:LEU:HB3	2.03	0.41
11:I2:1077:LEU:C	11:I2:1077:LEU:HD23	2.46	0.41
11:I3:535:ASP:OD1	11:I3:536:GLU:N	2.53	0.41
17:O2:98:TYR:CD1	17:O2:138:LEU:HA	2.56	0.41
21:S1:597:ILE:N	21:S2:1120:PRO:HD2	2.36	0.41
21:S1:685:PRO:O	21:S2:1152:VAL:CB	2.69	0.41
21:S1:1078:LEU:HD21	21:S1:1097:LYS:HE3	2.01	0.41
21:S4:231:ARG:O	21:S4:242:GLN:HA	2.21	0.41
21:S4:1124:ASP:O	21:S4:1125:LEU:C	2.63	0.41
22:T1:822:LEU:O	22:T1:823:PHE:C	2.64	0.41
22:T3:776:LEU:C	22:T3:778:PRO:HD3	2.45	0.41
22:T3:817:MET:HE1	22:T3:860:LEU:HB2	2.03	0.41
22:T4:812:ASP:O	22:T4:816:LYS:HG2	2.21	0.41
23:U1:104:LEU:HG	23:U1:224:ASP:HB3	2.02	0.41
23:U1:394:ILE:CA	31:c2:552:ARG:NE	2.83	0.41
23:U2:20:LYS:CG	31:c4:480:CYS:CB	2.98	0.41
23:U2:24:ILE:O	31:c4:489:LEU:HG	2.20	0.41
23:U3:359:ILE:HD13	23:U3:389:VAL:HG13	2.02	0.41
23:U4:206:ILE:HG22	23:U4:210:MET:HE2	2.02	0.41
24:V1:513:MET:HA	24:V1:541:ALA:HB1	2.02	0.41
24:V2:373:LEU:HB3	24:V2:376:LEU:HD12	2.02	0.41
24:V3:247:TYR:CZ	24:V3:260:LEU:HD13	2.56	0.41
24:V3:440:ARG:HB3	25:W3:285:LEU:HD22	2.02	0.41
25:W1:48:THR:O	25:W1:49:LEU:HD23	2.21	0.41
25:W4:222:LEU:O	25:W4:233:ILE:HA	2.19	0.41
26:X2:168:ARG:HD3	26:X2:170:ASN:HB3	2.02	0.41
26:X2:283:ASP:HB2	34:i:479:THR:HG21	0.71	0.41
26:X2:307:LYS:NZ	34:i:319[B]:CYS:SG	2.89	0.41
26:X2:312:LYS:HB3	34:i:397:ARG:O	2.19	0.41
26:X2:317:PHE:C	34:i:400:LYS:HE2	2.36	0.41
26:X2:317:PHE:CA	34:i:400:LYS:NZ	2.70	0.41
26:X2:322:THR:HG23	34:i:476:LEU:HD11	2.02	0.41
26:X2:370:LEU:HG	34:i:428:LEU:HD11	2.03	0.41
26:X3:243:GLN:O	26:X3:247:LYS:HG3	2.19	0.41
26:X3:352:THR:OG1	26:X3:355:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:152:LEU:CD2	26:X4:182:LEU:HB3	2.43	0.41
26:X4:296:PRO:HG2	26:X4:303:PHE:HA	2.03	0.41
27:Y1:77:TYR:HD1	27:Y1:110:SER:HB3	1.86	0.41
27:Y1:86:GLU:HB2	27:Y1:98:TRP:CZ2	2.56	0.41
28:Z1:153:GLN:OE1	28:Z1:193:HIS:HA	2.20	0.41
28:Z1:167:PHE:O	28:Z1:174:SER:HB2	2.21	0.41
28:Z3:522:ASN:ND2	30:b3:241:PRO:HA	2.33	0.41
28:Z4:59:CYS:HB2	28:Z4:464:THR:OG1	2.19	0.41
28:Z4:739:PHE:O	28:Z4:743:ASN:N	2.36	0.41
29:a3:365:CYS:SG	29:a3:373:TYR:HB2	2.61	0.41
30:b4:56:LEU:HD12	30:b4:56:LEU:HA	1.97	0.41
30:b4:384:ARG:HE	30:b4:389:THR:HG21	1.86	0.41
31:c1:410:ASP:O	31:c1:411:VAL:HG12	2.21	0.41
31:c1:457:LEU:HD21	31:c1:488:LEU:CD1	2.50	0.41
31:c3:219:GLN:HA	31:c3:222:GLU:OE2	2.20	0.41
1:A1:868:GLN:CA	6:D3:277:ASN:H	2.15	0.41
2:A2:404:LEU:HB3	2:A2:429:LEU:HD13	2.03	0.41
2:A2:977:VAL:O	6:D1:493:ALA:HA	2.20	0.41
2:A2:992:TYR:CG	6:D1:238:ALA:CB	3.02	0.41
2:A2:1094:ILE:HB	6:D2:759:GLN:CG	2.51	0.41
1:A3:1098:ARG:NH2	11:I2:1478:VAL:C	2.78	0.41
1:A3:1230:TYR:HE1	3:A6:609:GLU:O	1.74	0.41
1:A3:1231:VAL:CA	3:A6:613:ALA:CB	2.88	0.41
1:A3:1233:GLN:CG	3:A6:575:LEU:HD12	2.49	0.41
1:A3:1240:HIS:CE1	3:A6:118:SER:OG	2.62	0.41
1:A3:1242:THR:HG22	1:A3:1245:ASP:H	1.85	0.41
1:A3:1249:PHE:CE2	3:A6:637:THR:OG1	2.72	0.41
2:A4:87:GLN:HG3	3:A6:408:ALA:N	2.26	0.41
2:A4:172:PRO:CB	6:D3:781:ARG:NE	2.84	0.41
2:A4:496:THR:HG21	3:A6:366:ALA:HB1	1.69	0.41
2:A4:683:LEU:HB2	3:A6:403:ARG:CZ	2.50	0.41
2:A4:701:ILE:HG23	3:A6:464:PRO:CG	2.51	0.41
2:A4:761:GLN:HE22	3:A6:535:PHE:HZ	1.62	0.41
2:A4:780:GLU:HG3	3:A6:564:ASN:N	2.21	0.41
2:A4:790:ASP:OD2	3:A6:187:THR:N	2.12	0.41
2:A4:804:GLN:N	3:A6:381:LEU:HB2	2.36	0.41
2:A4:817:VAL:CG1	3:A6:146:LYS:CG	2.85	0.41
3:A5:1023:ILE:HG13	11:I5:55:ASP:OD1	2.20	0.41
3:A5:1139:ILE:HD11	5:C5:743:LEU:HD11	2.03	0.41
3:A5:1374:ALA:N	28:Z2:823:ALA:C	2.79	0.41
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1391:ARG:CZ	28:Z2:868:GLN:O	2.69	0.41
3:A6:861:GLN:O	3:A6:865:ALA:N	2.52	0.41
3:A6:1366:LEU:CD1	28:Z4:911:GLU:O	2.68	0.41
6:D1:245:ARG:HG3	6:D1:503:LEU:HD21	2.03	0.41
6:D3:190:TYR:OH	6:D3:600:LYS:HE2	2.21	0.41
6:D3:472:PHE:O	6:D3:476:VAL:HG23	2.21	0.41
6:D4:691:LEU:HD11	6:D4:717:LEU:HD23	2.03	0.41
6:D4:734:PHE:CE1	6:D4:745:LEU:HD22	2.55	0.41
11:I1:952:LEU:CA	16:N1:403:VAL:CG2	2.72	0.41
11:I1:1014:ASN:CB	16:N1:414:ALA:N	2.82	0.41
11:I1:1040:HIS:HB2	15:M1:623:LEU:HD13	2.02	0.41
11:I1:1055:GLU:CB	17:O1:280:GLU:CB	2.76	0.41
11:I1:1611:PHE:HZ	11:I2:1669:ARG:HH11	1.61	0.41
11:I1:1665:LEU:CA	11:I2:1667:GLN:C	2.85	0.41
11:I2:828:VAL:O	17:O3:237:PRO:HG3	2.06	0.41
11:I2:846:ILE:CB	17:O3:247:TRP:CH2	3.01	0.41
11:I2:887:GLN:O	17:O3:242:ARG:NE	2.54	0.41
11:I2:895:ARG:HD2	17:O3:234:LEU:CG	2.40	0.41
11:I2:914:ASN:O	15:M3:585:LEU:CA	2.65	0.41
11:I2:924:ILE:CD1	15:M3:595:MET:HG2	2.43	0.41
11:I2:962:ILE:HA	20:R3:164:PRO:O	2.13	0.41
11:I2:966:TRP:CB	20:R3:150:ASN:O	2.68	0.41
11:I5:1182:GLN:NE2	12:J5:245:GLU:CB	2.79	0.41
21:S3:693:VAL:C	21:S3:695:GLN:N	2.79	0.41
21:S4:443:VAL:CG1	21:S4:445:ASN:OD1	2.69	0.41
21:S4:693:VAL:C	21:S4:695:GLN:N	2.79	0.41
21:S4:934:HIS:C	21:S4:936:SER:N	2.78	0.41
21:S4:976:LEU:HG	22:T4:882:SER:HB3	2.01	0.41
22:T1:694:ALA:O	22:T1:698:LYS:HE3	2.21	0.41
22:T1:832:VAL:HG11	31:c5:23:ARG:N	2.24	0.41
22:T3:785:LYS:O	22:T3:789:GLU:HG3	2.21	0.41
23:U3:7:TYR:O	23:U3:9:THR:N	2.54	0.41
24:V2:153:LYS:HA	25:W2:261:SER:HB2	2.01	0.41
24:V2:208:TYR:CE2	24:V2:505:GLU:HG3	2.54	0.41
24:V3:539:PHE:CD1	24:V3:539:PHE:C	2.98	0.41
24:V4:161:LEU:HD11	25:W4:17:LEU:HG	2.03	0.41
25:W4:217:LEU:HD13	25:W4:218:LEU:N	2.35	0.41
26:X1:57:PRO:HB2	26:X1:82:ILE:HD11	2.03	0.41
26:X1:168:ARG:HD3	26:X1:170:ASN:HB3	2.02	0.41
26:X1:246:TRP:CD1	26:X1:331:TYR:CD2	3.09	0.41
26:X1:480:GLU:O	26:X1:483:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:304:ARG:N	34:i:335:HIS:CD2	2.76	0.41
26:X2:329:ARG:HB2	34:i:476:LEU:HD11	2.03	0.41
26:X2:352:THR:OG1	26:X2:355:GLU:HG3	2.21	0.41
26:X3:454:LEU:HD21	26:X3:503:VAL:HG21	2.02	0.41
26:X3:531:LEU:HB3	26:X3:534:ILE:CG1	2.51	0.41
27:Y1:16:VAL:HG12	27:Y1:63:TRP:CD1	2.55	0.41
27:Y3:16:VAL:HG12	27:Y3:63:TRP:CD1	2.55	0.41
28:Z1:186:LEU:HD12	28:Z1:186:LEU:HA	1.91	0.41
28:Z2:454:LYS:O	28:Z2:458:ASN:ND2	2.51	0.41
28:Z2:534:ASP:N	30:b2:164:CYS:HB2	2.23	0.41
28:Z2:535:ILE:CA	30:b2:182:PRO:HB3	2.50	0.41
28:Z2:561:GLN:NE2	30:b2:235:LEU:HD23	2.36	0.41
28:Z3:167:PHE:O	28:Z3:174:SER:HB2	2.21	0.41
28:Z4:535:ILE:CA	30:b4:182:PRO:HB3	2.50	0.41
30:b1:200:LEU:HD12	30:b1:200:LEU:C	2.45	0.41
30:b3:191:GLN:O	30:b3:201:ILE:HG22	2.21	0.41
31:c2:410:ASP:O	31:c2:411:VAL:HG12	2.21	0.41
31:c5:310:ARG:O	31:c5:314:GLU:HG3	2.21	0.41
32:g:303:HIS:O	32:g:304:HIS:HB2	2.21	0.41
1:A1:870:HIS:C	6:D3:279:HIS:CA	2.93	0.41
1:A1:875:LEU:CD1	6:D3:277:ASN:HB2	2.49	0.41
2:A2:192:VAL:HG13	2:A2:253:GLY:HA3	2.03	0.41
2:A2:780:GLU:CA	6:D1:679:ILE:N	2.83	0.41
2:A2:825:ARG:HH11	6:D1:633:LYS:CD	2.30	0.41
2:A2:825:ARG:CZ	6:D1:633:LYS:HZ2	2.32	0.41
2:A2:827:ILE:HG22	2:A2:863:GLN:HB2	2.03	0.41
2:A2:1130:ARG:O	3:A5:141:GLY:HA2	2.21	0.41
2:A2:1151:THR:HA	5:C2:733:LEU:CB	2.51	0.41
2:A2:1157:TYR:CD1	3:A5:176:LEU:HD21	2.03	0.41
1:A3:832:ASN:CG	6:D1:302:PRO:CB	2.85	0.41
1:A3:1021:LEU:CB	6:D3:816:VAL:C	2.93	0.41
1:A3:1086:LYS:CE	6:D3:798:MET:O	2.69	0.41
1:A3:1114:ILE:HA	3:A6:590:SER:OG	2.21	0.41
1:A3:1162:ASN:ND2	3:A6:732:GLN:OE1	2.54	0.41
1:A3:1189:LEU:CG	3:A6:583:LEU:HD21	2.51	0.41
1:A3:1201:ARG:N	2:A4:728:LYS:O	2.53	0.41
1:A3:1220:PRO:HG2	2:A4:672:ARG:NE	2.36	0.41
1:A3:1239:ALA:CB	3:A6:584:GLY:HA3	2.51	0.41
1:A3:1267:GLN:H	3:A6:552:PHE:HB3	1.28	0.41
1:A3:1271:ILE:HG13	3:A6:550:VAL:CB	2.34	0.41
1:A3:1281:LEU:HD13	3:A6:577:ASP:HA	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1332:ARG:CG	3:A6:127:HIS:CE1	3.03	0.41
2:A4:79:ALA:HB1	3:A6:321:ASP:CB	2.51	0.41
2:A4:192:VAL:HG13	2:A4:253:GLY:HA3	2.02	0.41
2:A4:404:LEU:HB3	2:A4:429:LEU:HD13	2.03	0.41
2:A4:553:ASP:CG	3:A6:435:PRO:HD3	2.41	0.41
2:A4:607:ARG:CA	3:A6:506:SER:HA	2.45	0.41
2:A4:635:ARG:O	3:A6:603:ASN:HB3	2.20	0.41
2:A4:644:ALA:HA	3:A6:503:GLN:HB3	1.31	0.41
2:A4:692:VAL:C	3:A6:379:VAL:HB	2.13	0.41
2:A4:717:VAL:HG11	3:A6:474:GLY:O	2.20	0.41
2:A4:761:GLN:NE2	3:A6:547:GLU:N	2.69	0.41
2:A4:778:PHE:CZ	3:A6:466:ALA:CB	2.87	0.41
2:A4:876:ARG:HG3	6:D3:564:ASN:HA	1.69	0.41
2:A4:886:PHE:CA	3:A6:174:PRO:O	2.63	0.41
2:A4:900:THR:CB	3:A6:137:HIS:CD2	2.75	0.41
2:A4:901:ALA:CB	3:A6:176:LEU:HD12	2.41	0.41
2:A4:982:THR:HB	6:D3:497:PHE:HB3	1.72	0.41
3:A5:157:TRP:HD1	5:C2:741:THR:HG22	1.14	0.41
3:A5:1155:ASN:ND2	5:C5:736:ASN:H	2.18	0.41
3:A5:1277:TRP:CG	3:A5:1278:PRO:HD3	2.55	0.41
3:A6:442:ARG:HB3	6:D3:691:LEU:C	2.34	0.41
4:B4:354:LEU:HD12	4:B4:354:LEU:C	2.45	0.41
6:D1:450:GLU:OE1	6:D1:481:ARG:NH2	2.51	0.41
6:D1:691:LEU:HD11	6:D1:717:LEU:HD23	2.03	0.41
6:D4:245:ARG:HG3	6:D4:503:LEU:HD21	2.03	0.41
6:D5:570:VAL:O	6:D5:574:VAL:HG23	2.20	0.41
6:D6:190:TYR:OH	6:D6:600:LYS:HE2	2.21	0.41
6:D7:649:VAL:O	6:D7:649:VAL:CG1	2.68	0.41
6:D7:691:LEU:HD11	6:D7:717:LEU:HD23	2.03	0.41
8:F1:158:PRO:HG3	11:I1:1207:PRO:HD3	0.50	0.41
8:F1:462:SER:N	8:F1:463:PRO:CD	2.84	0.41
8:F1:1205:TRP:CE2	17:O2:254:ARG:NE	2.89	0.41
8:F1:1262:HIS:ND1	17:O2:258:GLU:C	2.71	0.41
8:F1:1351:VAL:O	8:F1:1352:LYS:HG2	2.21	0.41
8:F1:1655:LEU:O	8:F1:1659:MET:HG2	2.21	0.41
8:F2:1193:MET:HB3	8:F2:1251:TYR:HB3	2.03	0.41
8:F2:1211:ARG:O	8:F2:1215:GLU:N	2.54	0.41
8:F2:1471:PHE:CG	8:F2:1472:GLY:N	2.89	0.41
8:F2:1836:GLU:O	8:F2:1839:VAL:HG12	2.20	0.41
9:G2:256:GLN:HB2	17:O4:257:ALA:C	2.45	0.41
11:I1:874:LEU:HD23	17:O1:252:VAL:CG2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:894:VAL:CG2	17:O1:238:ALA:N	2.51	0.41
11:I1:947:LEU:HD12	16:N1:411:GLN:HB3	2.01	0.41
11:I1:950:LEU:HB2	16:N1:407:ALA:HB3	1.84	0.41
11:I1:959:SER:HB3	20:R1:166:LEU:CG	2.50	0.41
11:I1:961:ARG:O	20:R1:165:SER:CB	2.62	0.41
11:I1:984:GLU:CG	15:M1:617:THR:HG22	2.50	0.41
11:I1:1004:LEU:C	11:I1:1004:LEU:HD12	2.46	0.41
11:I1:1042:LEU:O	15:M1:616:LEU:HD21	2.18	0.41
11:I1:1644:ARG:NH2	11:I1:1721:GLU:OE1	2.54	0.41
11:I2:925:LEU:HG	15:M3:593:ALA:HA	2.02	0.41
11:I2:952:LEU:CD1	15:M3:599:ILE:HG23	2.50	0.41
11:I2:978:LYS:HG2	20:R3:151:LYS:CD	2.51	0.41
11:I2:997:SER:CB	17:O3:270:THR:HG21	2.49	0.41
11:I2:1036:PRO:HD2	15:M3:626:HIS:CB	2.50	0.41
11:I2:1037:THR:OG1	20:R3:169:GLY:N	2.53	0.41
11:I2:1048:GLU:H	17:O3:284:LYS:HA	1.84	0.41
11:I2:1605:LEU:HD12	11:I2:1605:LEU:C	2.46	0.41
11:I3:1077:LEU:HD23	11:I3:1077:LEU:C	2.46	0.41
11:I3:1644:ARG:NH2	11:I3:1721:GLU:OE1	2.54	0.41
11:I4:535:ASP:OD1	11:I4:536:GLU:N	2.53	0.41
11:I4:819:MET:HE2	26:X3:502:MET:HA	2.02	0.41
11:I4:1077:LEU:HD23	11:I4:1077:LEU:C	2.46	0.41
11:I4:1371:LEU:O	11:I4:1371:LEU:HD23	2.20	0.41
11:I5:763:ASP:OD1	11:I5:835:ARG:NE	2.49	0.41
11:I5:1644:ARG:NH2	11:I5:1721:GLU:OE1	2.54	0.41
15:M2:614:ASP:HB2	15:M2:615:PRO:HD2	2.03	0.41
17:O1:98:TYR:CD1	17:O1:138:LEU:HA	2.56	0.41
17:O3:148:ARG:HD2	18:P3:325:ILE:CG2	2.41	0.41
21:S1:443:VAL:CG1	21:S1:445:ASN:OD1	2.69	0.41
21:S1:671:ALA:N	21:S2:1145:LYS:CB	2.84	0.41
21:S1:686:ALA:CB	21:S2:1152:VAL:CA	2.95	0.41
21:S1:931:ALA:HA	21:S1:935:LEU:HB2	2.03	0.41
21:S1:1055:LEU:N	21:S1:1055:LEU:HD22	2.35	0.41
21:S2:176:MET:CE	21:S2:212:LEU:CD1	2.87	0.41
21:S2:443:VAL:CG1	21:S2:445:ASN:OD1	2.69	0.41
21:S2:980:ALA:HB2	22:T2:897:LEU:HB3	2.02	0.41
21:S3:116:CYS:HB3	21:S3:123:LEU:HD21	2.02	0.41
21:S3:443:VAL:CG1	21:S3:445:ASN:OD1	2.69	0.41
21:S3:1003:LEU:O	21:S3:1006:GLU:HB3	2.20	0.41
21:S4:178:ALA:HA	21:S4:183:SER:O	2.20	0.41
21:S4:408:THR:HG23	21:S4:410:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:997:GLU:HA	21:S4:997:GLU:OE2	2.20	0.41
21:S4:1055:LEU:N	21:S4:1055:LEU:HD22	2.36	0.41
21:S4:1058:ILE:O	21:S4:1059:ASP:CB	2.58	0.41
22:T2:822:LEU:O	22:T2:823:PHE:C	2.64	0.41
22:T3:760:PHE:CD1	22:T3:864:ILE:HD11	2.55	0.41
22:T3:829:MET:HE3	22:T3:846:MET:HA	2.02	0.41
22:T3:862:HIS:CE1	22:T3:903:LYS:HB3	2.56	0.41
22:T4:781:THR:O	22:T4:785:LYS:HG3	2.20	0.41
23:U1:141:THR:HG23	31:c1:498:GLN:N	2.03	0.41
23:U1:359:ILE:HD13	23:U1:389:VAL:HG13	2.02	0.41
23:U2:20:LYS:HB2	31:c4:480:CYS:HB2	2.01	0.41
23:U4:23:LYS:HD2	23:U4:434:THR:HG21	2.01	0.41
23:U4:146:ASN:HB2	23:U4:173:ASP:CG	2.46	0.41
23:U4:264:TYR:O	23:U4:268:SER:OG	2.34	0.41
24:V1:155:SER:HB3	24:V1:159:MET:H	1.85	0.41
24:V1:292:ILE:H	24:V1:292:ILE:CD1	2.27	0.41
24:V1:440:ARG:HB3	25:W1:285:LEU:HD22	2.02	0.41
24:V2:162:THR:HG22	24:V2:163:LYS:N	2.35	0.41
24:V2:247:TYR:CZ	24:V2:260:LEU:HD13	2.56	0.41
24:V2:513:MET:HA	24:V2:541:ALA:HB1	2.02	0.41
24:V3:153:LYS:HG2	25:W3:261:SER:HB2	2.03	0.41
24:V3:418:PRO:HB3	24:V3:445:ALA:HB1	2.02	0.41
24:V3:468:LYS:HD2	24:V3:499:ASN:HB3	2.03	0.41
24:V4:162:THR:HG22	24:V4:163:LYS:N	2.35	0.41
25:W1:9:ASN:HD22	25:W1:9:ASN:HA	1.48	0.41
25:W2:23:ARG:NH1	25:W2:84:GLU:OE1	2.54	0.41
25:W2:217:LEU:HD13	25:W2:218:LEU:N	2.36	0.41
25:W2:223:ALA:HB2	25:W2:262:TRP:CZ2	2.55	0.41
25:W3:253:PHE:CD1	25:W3:257:LEU:HD11	2.56	0.41
25:W4:253:PHE:CD1	25:W4:257:LEU:HD11	2.56	0.41
26:X1:220:ASP:OD2	26:X1:222:GLU:HB3	2.21	0.41
26:X1:227:VAL:C	26:X1:229:SER:N	2.79	0.41
26:X1:401:LYS:HD2	37:k2:450:HIS:HB3	1.99	0.41
26:X1:403:HIS:CD2	37:k2:454:GLU:OE1	2.74	0.41
26:X1:531:LEU:HB3	26:X1:534:ILE:CG1	2.51	0.41
26:X2:220:ASP:OD2	26:X2:222:GLU:HB3	2.21	0.41
26:X2:243:GLN:H	26:X2:243:GLN:HG3	1.64	0.41
26:X2:287:ASP:HB2	34:i:480[A]:MET:CE	2.44	0.41
26:X2:306:TRP:HE3	34:i:404:ARG:HA	1.77	0.41
26:X3:57:PRO:HB2	26:X3:82:ILE:HD11	2.03	0.41
26:X3:77:GLN:HE21	26:X3:77:GLN:HB2	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:296:PRO:HG2	26:X3:303:PHE:HA	2.03	0.41
26:X3:480:GLU:O	26:X3:483:PRO:HD2	2.21	0.41
26:X4:105:SER:HB2	26:X4:481:LEU:HD21	2.03	0.41
26:X4:246:TRP:CD1	26:X4:331:TYR:CD2	3.09	0.41
26:X4:291:LEU:HD13	26:X4:310:VAL:HG22	2.03	0.41
26:X4:480:GLU:O	26:X4:483:PRO:HD2	2.21	0.41
26:X4:511:TYR:HA	26:X4:512:PRO:HD3	1.73	0.41
27:Y4:86:GLU:HB2	27:Y4:98:TRP:CZ2	2.56	0.41
28:Z2:53:GLY:HA3	28:Z2:71:HIS:HB3	2.02	0.41
28:Z2:287:LEU:O	28:Z2:300:MET:HA	2.20	0.41
28:Z3:291:LEU:HA	28:Z3:292:PRO:HD3	1.76	0.41
28:Z3:535:ILE:CA	30:b3:182:PRO:HB3	2.50	0.41
28:Z3:554:PHE:CE1	30:b3:233:TRP:O	2.67	0.41
28:Z3:554:PHE:CE2	30:b3:234:LEU:N	2.89	0.41
28:Z3:659:TYR:OH	28:Z3:743:ASN:C	2.64	0.41
28:Z4:521:SER:HB2	30:b4:238:ASN:O	2.21	0.41
28:Z4:659:TYR:OH	28:Z4:743:ASN:C	2.64	0.41
29:a1:365:CYS:SG	29:a1:373:TYR:HB2	2.61	0.41
30:b2:191:GLN:O	30:b2:201:ILE:HG22	2.21	0.41
30:b2:196:ASN:HA	30:b2:197:PRO:HD2	1.96	0.41
30:b3:170:ARG:HD3	30:b3:214:TRP:HZ3	1.85	0.41
30:b3:200:LEU:HD12	30:b3:200:LEU:C	2.45	0.41
31:c1:109:VAL:O	31:c1:109:VAL:HG12	2.20	0.41
31:c1:461:PHE:CE2	31:c1:484:LEU:HD13	2.56	0.41
31:c1:511:GLN:N	31:c1:512:PRO:CD	2.83	0.41
31:c1:694:ILE:O	31:c1:694:ILE:HG22	2.20	0.41
31:c3:410:ASP:O	31:c3:411:VAL:HG12	2.21	0.41
31:c3:609:VAL:O	31:c3:612:LEU:N	2.54	0.41
31:c4:310:ARG:O	31:c4:314:GLU:HG3	2.21	0.41
31:c4:571:GLN:NE2	31:c4:633:PHE:O	2.46	0.41
32:g:130:ASN:HA	32:g:422:LEU:HD11	2.01	0.41
32:g:291:MET:HB3	32:g:292:GLU:H	1.77	0.41
2:A2:223:THR:CA	6:D1:709:ARG:NH2	2.59	0.41
2:A2:781:ARG:NE	6:D1:673:ARG:HB2	2.20	0.41
2:A2:857:LYS:O	6:D1:606:LYS:CD	2.69	0.41
2:A2:865:ALA:HB2	6:D1:607:PRO:CG	2.51	0.41
1:A3:1282:PHE:H	3:A6:625:LEU:CG	2.27	0.41
2:A4:86:ASN:O	3:A6:406:LEU:HB3	2.15	0.41
2:A4:676:LEU:O	3:A6:102:CYS:SG	2.79	0.41
2:A4:727:ASN:ND2	3:A6:605:TYR:CB	2.83	0.41
2:A4:733:GLY:C	3:A6:543:GLY:HA2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:857:LYS:HZ3	3:A6:129:ASN:CB	2.31	0.41
2:A4:863:GLN:N	3:A6:132:ASP:CA	2.82	0.41
2:A4:864:ARG:HG2	6:D3:609:ILE:CG1	2.51	0.41
2:A4:947:LYS:H	4:B6:352:ALA:N	2.18	0.41
2:A4:954:ILE:C	4:B6:344:ALA:C	2.88	0.41
3:A6:483:HIS:CG	6:D3:675:ARG:HD3	2.55	0.41
3:A6:520:GLU:HB2	6:D3:635:ALA:HB3	1.83	0.41
3:A6:906:ILE:CG2	3:A6:965:LYS:HG2	2.51	0.41
3:A6:943:ASP:OD2	3:A6:945:ARG:NE	2.43	0.41
3:A6:1359:LEU:CB	28:Z4:918:PHE:H	2.34	0.41
6:D3:606:LYS:N	6:D3:607:PRO:HD2	2.36	0.41
6:D5:245:ARG:HG3	6:D5:503:LEU:HD21	2.03	0.41
6:D6:520:PRO:HA	6:D6:521:PRO:HD3	1.96	0.41
6:D6:606:LYS:N	6:D6:607:PRO:HD2	2.36	0.41
6:D7:606:LYS:N	6:D7:607:PRO:HD2	2.36	0.41
8:F1:638:TRP:NE1	8:F1:725:SER:O	2.44	0.41
8:F1:982:PRO:CB	11:I1:1388:GLU:HG2	2.50	0.41
8:F1:1193:MET:HB3	8:F1:1251:TYR:HB3	2.03	0.41
8:F1:1205:TRP:NE1	17:O2:254:ARG:CD	2.70	0.41
11:I1:894:VAL:HG11	17:O1:238:ALA:N	2.36	0.41
11:I1:1021:ILE:HD11	16:N1:410:MET:CE	2.49	0.41
11:I1:1043:LEU:H	20:R1:170:LEU:HD11	1.86	0.41
11:I2:535:ASP:OD1	11:I2:536:GLU:N	2.53	0.41
11:I2:828:VAL:HG13	17:O3:237:PRO:HB2	2.02	0.41
11:I2:925:LEU:HD12	20:R3:156:GLY:N	2.26	0.41
11:I2:925:LEU:CG	15:M3:593:ALA:HB1	2.50	0.41
11:I2:1051:LYS:HG2	17:O3:284:LYS:C	2.31	0.41
11:I3:763:ASP:OD1	11:I3:835:ARG:NE	2.49	0.41
11:I3:1275:SER:HG	26:X1:522:MET:HA	1.75	0.41
12:J3:247:ASP:O	12:J3:251:TYR:N	2.51	0.41
21:S1:684:THR:N	21:S2:1148:TYR:CA	2.44	0.41
21:S1:953:LEU:HD23	21:S1:953:LEU:HA	1.87	0.41
21:S2:948:LYS:HB2	21:S2:948:LYS:HE3	1.72	0.41
21:S3:147:SER:OG	21:S3:181:GLU:OE2	2.39	0.41
21:S3:231:ARG:O	21:S3:242:GLN:HA	2.21	0.41
21:S3:931:ALA:HA	21:S3:935:LEU:HB2	2.03	0.41
21:S3:953:LEU:HD13	21:S3:973:LEU:HB3	2.03	0.41
21:S4:184:ILE:CD1	21:S4:201:VAL:HG23	2.46	0.41
21:S4:445:ASN:OD1	21:S4:446:ALA:N	2.54	0.41
21:S4:1003:LEU:O	21:S4:1006:GLU:HB3	2.20	0.41
22:T1:900:LEU:O	22:T1:904:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:776:LEU:C	22:T2:778:PRO:HD3	2.45	0.41
22:T2:797:MET:HE2	22:T2:797:MET:HB3	1.98	0.41
22:T4:776:LEU:C	22:T4:778:PRO:HD3	2.45	0.41
22:T4:785:LYS:O	22:T4:789:GLU:HG3	2.21	0.41
22:T4:900:LEU:O	22:T4:904:LEU:HG	2.21	0.41
23:U2:7:TYR:O	23:U2:9:THR:N	2.54	0.41
23:U2:19:LEU:O	31:c4:483:ASP:CA	2.69	0.41
23:U2:104:LEU:HG	23:U2:224:ASP:HB3	2.03	0.41
23:U2:405:GLU:OE2	31:c4:161:ARG:HG2	2.21	0.41
23:U2:429:ILE:HG23	31:c4:463:HIS:HB2	1.97	0.41
23:U3:242:LEU:O	23:U3:243:TRP:C	2.63	0.41
23:U4:242:LEU:O	23:U4:243:TRP:C	2.63	0.41
24:V1:539:PHE:CD1	24:V1:539:PHE:C	2.98	0.41
24:V2:440:ARG:HB3	25:W2:285:LEU:HD22	2.02	0.41
25:W1:225:VAL:CG2	25:W1:271:LEU:HD22	2.51	0.41
25:W2:14:ASP:OD1	25:W2:15:ALA:N	2.54	0.41
25:W3:181:LEU:HD22	25:W3:199:THR:CG2	2.51	0.41
25:W3:225:VAL:CG2	25:W3:271:LEU:HD22	2.51	0.41
25:W4:233:ILE:HD11	25:W4:248:LEU:HD13	2.03	0.41
26:X1:511:TYR:HA	26:X1:512:PRO:HD3	1.73	0.41
26:X2:300:SER:HB3	34:i:335:HIS:C	2.46	0.41
26:X2:315:GLN:N	34:i:400:LYS:CA	2.83	0.41
26:X2:373:GLU:O	26:X2:377:MET:HG3	2.21	0.41
26:X4:78:ASN:HD21	26:X4:95:ILE:HG13	1.86	0.41
26:X4:168:ARG:HD3	26:X4:170:ASN:HB3	2.02	0.41
26:X4:334:ASP:HB3	26:X4:349:TYR:HE2	1.86	0.41
28:Z1:169:VAL:HG13	28:Z1:228:LEU:HD22	2.04	0.41
28:Z2:560:ASN:HD22	30:b2:211:ILE:CG2	2.19	0.41
28:Z3:153:GLN:OE1	28:Z3:193:HIS:HA	2.21	0.41
28:Z4:555:LYS:HB2	30:b4:233:TRP:CD2	2.53	0.41
30:b3:31:LEU:HD12	30:b3:31:LEU:HA	1.84	0.41
31:c1:310:ARG:O	31:c1:314:GLU:HG3	2.21	0.41
31:c2:694:ILE:HG22	31:c2:694:ILE:O	2.20	0.41
31:c3:109:VAL:O	31:c3:109:VAL:HG12	2.20	0.41
31:c3:353:GLN:OE1	31:c3:518:PRO:HD3	2.21	0.41
31:c5:385:LEU:CD2	31:c5:401:LEU:HD11	2.46	0.41
31:c5:571:GLN:NE2	31:c5:633:PHE:O	2.46	0.41
32:g:91:MET:HE3	32:g:111:MET:SD	2.60	0.41
1:A1:1018:ASP:OD1	6:D1:819:ASN:HB2	2.21	0.40
2:A2:781:ARG:CZ	6:D1:673:ARG:HH12	2.32	0.40
2:A2:873:PRO:HG3	6:D1:572:GLU:OE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:HG2	3:A5:177:ILE:N	2.36	0.40
1:A3:861:GLN:O	1:A3:865:ALA:N	2.52	0.40
1:A3:1277:TRP:CZ3	3:A6:576:VAL:HG23	2.56	0.40
1:A3:1389:SER:C	3:A6:225:THR:OG1	2.63	0.40
2:A4:549:ALA:HB2	3:A6:105:GLY:C	2.45	0.40
2:A4:613:ALA:C	3:A6:509:LYS:HZ2	2.20	0.40
2:A4:678:LEU:O	3:A6:431:PHE:CD2	2.73	0.40
2:A4:725:GLU:O	3:A6:575:LEU:HB2	2.21	0.40
2:A4:760:LEU:HD11	3:A6:98:LEU:CD2	2.50	0.40
2:A4:764:MET:HB3	3:A6:494:PRO:HD3	1.80	0.40
2:A4:893:LEU:HB3	3:A6:177:ILE:HA	1.94	0.40
2:A4:946:LYS:HD2	4:B6:350:GLU:CD	2.44	0.40
3:A5:996:ASN:ND2	11:I5:55:ASP:C	2.79	0.40
3:A5:1024:ASP:O	11:I5:68:ILE:CD1	2.68	0.40
3:A5:1416:ARG:HG2	28:Z2:962:LYS:HA	0.94	0.40
6:D3:245:ARG:HG3	6:D3:503:LEU:HD21	2.03	0.40
6:D5:606:LYS:N	6:D5:607:PRO:HD2	2.36	0.40
6:D5:780:ASP:OD1	31:c4:303:HIS:C	2.22	0.40
6:D6:472:PHE:O	6:D6:476:VAL:HG23	2.21	0.40
8:F1:1471:PHE:CG	8:F1:1472:GLY:N	2.89	0.40
8:F1:1511:VAL:O	8:F1:1511:VAL:HG22	2.21	0.40
8:F2:1167:GLU:N	8:F2:1167:GLU:OE1	2.54	0.40
8:F2:1351:VAL:O	8:F2:1352:LYS:HG2	2.21	0.40
8:F2:1467:VAL:HG22	8:F2:1467:VAL:O	2.21	0.40
9:G1:255:LEU:HG	17:O2:253:LEU:O	2.20	0.40
9:G1:263:MET:HE1	16:N2:408:MET:N	2.36	0.40
11:I1:959:SER:H	20:R1:166:LEU:HD11	1.85	0.40
11:I1:1034:ASP:HB3	16:N1:444:SER:OG	2.19	0.40
11:I1:1044:GLY:CA	15:M1:616:LEU:HD13	2.50	0.40
11:I1:1048:GLU:CA	20:R1:143:PHE:CE1	3.01	0.40
11:I1:1077:LEU:HD23	11:I1:1077:LEU:C	2.46	0.40
11:I1:1677:LYS:HZ3	11:I2:1543:LEU:CD1	2.34	0.40
11:I2:896:PRO:CG	17:O3:233:THR:HG23	2.52	0.40
11:I2:922:ASP:CA	20:R3:163:LEU:HB3	2.49	0.40
11:I2:978:LYS:NZ	20:R3:154:ALA:N	2.68	0.40
11:I2:980:ILE:HG12	20:R3:147:LEU:HA	2.02	0.40
11:I2:1052:LEU:HD13	16:N3:438:LEU:HD22	2.00	0.40
11:I3:1371:LEU:HD23	11:I3:1371:LEU:C	2.46	0.40
17:O2:142:PHE:O	17:O2:145:ILE:HG22	2.22	0.40
17:O4:98:TYR:CD1	17:O4:138:LEU:HA	2.56	0.40
21:S1:231:ARG:O	21:S1:242:GLN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:980:ALA:HB2	22:T1:897:LEU:HB3	2.02	0.40
21:S1:997:GLU:O	21:S1:1000:ARG:HB2	2.21	0.40
21:S3:597:ILE:N	21:S4:1154:GLY:O	2.38	0.40
21:S3:679:ILE:CA	21:S4:1144:LEU:CD1	2.61	0.40
21:S3:1058:ILE:O	21:S3:1059:ASP:CB	2.58	0.40
21:S4:965:ALA:HB2	21:S4:1021:SER:HB2	2.02	0.40
21:S4:1097:LYS:NZ	21:S4:1101:PHE:CE1	2.81	0.40
22:T2:694:ALA:O	22:T2:698:LYS:HE3	2.21	0.40
22:T4:760:PHE:CD1	22:T4:864:ILE:HD11	2.55	0.40
23:U1:13:THR:O	23:U1:17:ASP:HB2	2.21	0.40
23:U1:425:LEU:HD23	23:U1:425:LEU:HA	1.90	0.40
23:U2:146:ASN:HB2	23:U2:173:ASP:CG	2.46	0.40
23:U2:391:HIS:CB	31:c4:477:GLU:CB	2.96	0.40
23:U2:393:ALA:HB3	31:c4:538:LEU:HA	2.02	0.40
23:U3:146:ASN:HB2	23:U3:173:ASP:CG	2.46	0.40
23:U3:278:GLN:OE1	25:W4:189:SER:O	2.38	0.40
23:U4:9:THR:O	23:U4:9:THR:HG22	2.21	0.40
23:U4:82:LEU:HD23	23:U4:82:LEU:HA	1.87	0.40
23:U4:156:CYS:HB2	24:V4:351:ILE:HG12	2.03	0.40
24:V1:153:LYS:HG2	25:W1:261:SER:HB2	2.03	0.40
24:V1:418:PRO:HB3	24:V1:445:ALA:HB1	2.02	0.40
24:V4:539:PHE:CD1	24:V4:539:PHE:C	2.98	0.40
25:W1:63:HIS:HD2	25:W1:65:LYS:H	1.68	0.40
25:W1:209:ASP:OD2	25:W1:259:ARG:HD3	2.21	0.40
25:W4:14:ASP:OD1	25:W4:15:ALA:N	2.54	0.40
25:W4:209:ASP:OD2	25:W4:259:ARG:HD3	2.22	0.40
26:X1:296:PRO:HG2	26:X1:303:PHE:HA	2.03	0.40
26:X1:352:THR:OG1	26:X1:355:GLU:HG3	2.21	0.40
26:X2:240:PHE:CD1	26:X2:268:SER:HB3	2.56	0.40
26:X2:365:ILE:CD1	34:i:424:LEU:HB2	2.51	0.40
26:X2:511:TYR:HE2	26:X2:518:ASP:HB3	1.87	0.40
26:X3:434:PHE:CD2	26:X3:458:ARG:HA	2.56	0.40
26:X4:373:GLU:O	26:X4:377:MET:HG3	2.21	0.40
27:Y2:175:PRO:HD3	27:Y2:220:TRP:HB3	2.02	0.40
27:Y3:131:ASP:O	27:Y3:133:ILE:HG13	2.20	0.40
27:Y4:219:SER:HG	27:Y4:312:TRP:HD1	1.67	0.40
28:Z3:457:PHE:HA	28:Z3:477:GLN:HB2	2.03	0.40
28:Z4:530:LYS:HE3	30:b4:186:PRO:HG3	1.91	0.40
28:Z4:554:PHE:CA	30:b4:233:TRP:O	2.61	0.40
29:a2:8:PHE:CE1	29:a2:371:ALA:HB2	2.55	0.40
30:b1:384:ARG:HE	30:b1:389:THR:HG21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b2:143:ALA:HB3	30:b2:192:PHE:CD2	2.56	0.40
30:b2:212:PHE:CE1	30:b2:233:TRP:CE3	3.08	0.40
30:b3:212:PHE:CE1	30:b3:233:TRP:CE3	3.08	0.40
30:b4:51:PRO:O	30:b4:53:SER:N	2.45	0.40
31:c1:353:GLN:OE1	31:c1:518:PRO:HD3	2.21	0.40
31:c1:482:LEU:O	31:c1:486:VAL:HG23	2.21	0.40
31:c1:609:VAL:O	31:c1:612:LEU:N	2.54	0.40
31:c2:482:LEU:O	31:c2:486:VAL:HG23	2.21	0.40
31:c3:11:TYR:O	31:c3:14:SER:OG	2.23	0.40
31:c4:482:LEU:O	31:c4:486:VAL:HG23	2.21	0.40
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB2	2.20	0.40
2:A2:871:ASN:N	6:D1:571:SER:N	2.60	0.40
1:A3:1090:SER:CB	6:D3:799:ILE:O	2.70	0.40
1:A3:1113:GLU:HG2	3:A6:590:SER:N	2.32	0.40
1:A3:1185:THR:HG22	3:A6:640:LEU:O	2.21	0.40
1:A3:1187:ASN:CG	3:A6:618:ALA:O	2.64	0.40
1:A3:1198:GLU:HB3	3:A6:678:LEU:HD12	1.55	0.40
1:A3:1393:THR:OG1	3:A6:229:SER:HB3	2.21	0.40
2:A4:90:GLN:HB2	3:A6:407:SER:H	1.85	0.40
2:A4:638:GLU:CB	3:A6:498:ARG:NH1	2.69	0.40
2:A4:705:ILE:HD12	3:A6:483:HIS:N	2.35	0.40
2:A4:799:ASP:CG	3:A6:250:PHE:HE2	2.18	0.40
2:A4:853:VAL:HG13	3:A6:128:HIS:HB3	1.38	0.40
2:A4:858:ALA:CB	3:A6:174:PRO:HD2	2.52	0.40
2:A4:909:LYS:O	6:D3:556:ASP:CG	2.64	0.40
2:A4:944:SER:OG	3:A6:200:VAL:HB	2.17	0.40
2:A4:1055:ARG:HH21	6:D4:762:ARG:HB3	1.87	0.40
3:A5:1392:ARG:NH1	28:Z2:867:LYS:CA	2.80	0.40
3:A6:1011:TYR:CZ	3:A6:1019:ARG:HD3	2.57	0.40
6:D1:536:THR:O	6:D1:540:GLU:HB3	2.21	0.40
6:D1:647:SER:HB3	6:D1:648:PRO:HD3	2.02	0.40
6:D1:782:ASP:OD1	6:D1:783:SER:N	2.54	0.40
6:D4:649:VAL:O	6:D4:649:VAL:CG1	2.67	0.40
6:D5:647:SER:HB3	6:D5:648:PRO:HD3	2.03	0.40
6:D5:649:VAL:O	6:D5:649:VAL:CG1	2.68	0.40
8:F1:1065:ARG:O	8:F1:1069:LEU:HG	2.22	0.40
8:F2:1544:ALA:N	8:F2:1545:PRO:CD	2.83	0.40
9:G1:263:MET:O	16:N2:411:GLN:CA	2.69	0.40
11:I1:881:ILE:HB	17:O1:249:ARG:C	2.32	0.40
11:I1:894:VAL:HB	17:O1:236:ASP:HB3	1.29	0.40
11:I1:1051:LYS:HE2	17:O1:289:ASP:HB2	0.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1059:PRO:HG2	17:O1:275:LEU:HD12	2.04	0.40
11:I1:1182:GLN:NE2	12:J1:245:GLU:CB	2.80	0.40
11:I2:898:VAL:HG21	17:O3:236:ASP:CA	2.21	0.40
11:I2:1019:LEU:HD22	16:N3:412:ASN:ND2	2.29	0.40
11:I2:1020:ALA:HB1	16:N3:407:ALA:HA	1.90	0.40
11:I2:1039:ALA:CB	20:R3:170:LEU:CG	0.85	0.40
11:I4:1004:LEU:HD12	11:I4:1004:LEU:C	2.46	0.40
11:I5:659:LYS:HE2	11:I5:664:LEU:HD21	2.02	0.40
17:O1:142:PHE:O	17:O1:145:ILE:HG22	2.22	0.40
17:O3:151:LEU:HD21	18:P3:325:ILE:HG13	0.59	0.40
17:O3:151:LEU:HD22	18:P3:325:ILE:HG12	0.58	0.40
21:S1:948:LYS:O	21:S1:952:THR:HG22	2.22	0.40
21:S1:997:GLU:OE2	21:S1:997:GLU:HA	2.20	0.40
21:S2:531:ARG:O	21:S2:535:GLY:O	2.38	0.40
21:S4:938:LEU:HD23	21:S4:938:LEU:HA	1.99	0.40
22:T1:741:ASP:CB	31:c5:24:GLN:CG	3.00	0.40
22:T2:817:MET:HE1	22:T2:860:LEU:HB2	2.03	0.40
22:T2:900:LEU:O	22:T2:904:LEU:HG	2.21	0.40
22:T3:812:ASP:O	22:T3:816:LYS:HG2	2.21	0.40
23:U2:25:GLU:CA	31:c4:489:LEU:HB2	2.46	0.40
23:U2:398:ILE:HG13	31:c4:535:VAL:HG12	1.98	0.40
23:U2:411:LYS:HB3	31:c4:541:ARG:HD3	2.02	0.40
23:U3:9:THR:HG22	23:U3:9:THR:O	2.22	0.40
23:U3:13:THR:O	23:U3:17:ASP:HB2	2.21	0.40
24:V1:379:GLU:CD	31:c1:34:LYS:CG	2.59	0.40
24:V1:526:HIS:O	24:V1:528:LEU:N	2.55	0.40
24:V3:161:LEU:HD11	25:W3:17:LEU:HG	2.03	0.40
24:V4:292:ILE:H	24:V4:292:ILE:CD1	2.27	0.40
25:W1:181:LEU:HD22	25:W1:199:THR:CG2	2.51	0.40
25:W2:59:VAL:HB	25:W2:70:LEU:HD11	2.03	0.40
25:W2:60:ASP:H	25:W2:70:LEU:CD1	2.33	0.40
25:W2:209:ASP:OD2	25:W2:259:ARG:HD3	2.21	0.40
25:W4:181:LEU:HD22	25:W4:199:THR:CG2	2.51	0.40
26:X1:51:MET:HE2	26:X1:91:TYR:CG	2.57	0.40
26:X2:295:TYR:HB3	34:i:448:PHE:CD1	2.28	0.40
26:X2:310:VAL:N	34:i:404:ARG:HG2	2.36	0.40
26:X2:434:PHE:CD2	26:X2:458:ARG:HA	2.56	0.40
26:X3:220:ASP:OD2	26:X3:222:GLU:HB3	2.21	0.40
26:X4:51:MET:HE2	26:X4:91:TYR:CG	2.57	0.40
27:Y4:136:LEU:HD12	27:Y4:196:ARG:HH12	1.86	0.40
28:Z1:406:ARG:CG	30:b1:252:ALA:HB3	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:169:VAL:HG13	28:Z2:228:LEU:HD22	2.04	0.40
28:Z3:349:LEU:HB2	28:Z3:368:VAL:CG2	2.52	0.40
28:Z4:411:LEU:HG	30:b4:251:ILE:HD13	2.01	0.40
28:Z4:523:ASP:C	30:b4:238:ASN:HA	2.19	0.40
30:b1:196:ASN:HA	30:b1:197:PRO:HD2	1.96	0.40
1:A1:879:LEU:HD21	1:A1:908:LEU:CD1	2.52	0.40
1:A1:1040:PHE:CD2	1:A1:1040:PHE:C	2.99	0.40
1:A1:1201:ARG:HB3	2:A2:735:ALA:N	2.36	0.40
2:A2:985:ALA:HB1	6:D1:500:LYS:CA	2.50	0.40
2:A2:1126:VAL:HG22	3:A5:135:PHE:CG	2.53	0.40
1:A3:1049:PHE:HA	6:D3:816:VAL:HG11	2.02	0.40
1:A3:1196:GLU:O	3:A6:609:GLU:CA	2.55	0.40
1:A3:1239:ALA:HB2	3:A6:584:GLY:HA3	2.03	0.40
1:A3:1257:VAL:HG13	3:A6:618:ALA:O	2.20	0.40
1:A3:1278:PRO:HD2	3:A6:624:ASP:CB	2.49	0.40
1:A3:1392:ARG:N	3:A6:227:SER:CB	2.83	0.40
2:A4:225:THR:C	6:D3:709:ARG:CD	2.67	0.40
2:A4:538:ALA:N	3:A6:362:PHE:O	2.38	0.40
2:A4:579:PHE:CE2	3:A6:507:ALA:CB	3.04	0.40
2:A4:614:ALA:HB2	3:A6:507:ALA:HB3	1.98	0.40
2:A4:615:LEU:H	3:A6:509:LYS:H	1.68	0.40
2:A4:616:ALA:CA	3:A6:509:LYS:HB2	2.50	0.40
2:A4:642:ARG:CA	3:A6:501:VAL:HB	2.51	0.40
2:A4:679:TYR:OH	3:A6:511:PHE:HA	2.18	0.40
2:A4:716:ASN:HB3	3:A6:512:GLU:OE2	2.22	0.40
2:A4:722:ASN:OD1	3:A6:578:ILE:HD11	2.19	0.40
2:A4:765:GLU:O	3:A6:471:PHE:CD2	2.67	0.40
2:A4:817:VAL:HG12	3:A6:147:LEU:O	2.21	0.40
2:A4:859:GLN:CB	3:A6:134:VAL:HB	2.48	0.40
2:A4:980:ARG:CG	6:D3:526:LEU:HB2	2.51	0.40
2:A4:1154:PHE:CB	5:C4:733:LEU:HD13	2.50	0.40
3:A5:1026:PRO:HA	11:I5:68:ILE:HB	1.18	0.40
3:A5:1370:ALA:C	28:Z2:824:PHE:C	2.62	0.40
3:A6:442:ARG:HD2	6:D3:692:LEU:CA	2.50	0.40
3:A6:443:ILE:N	6:D3:691:LEU:HD13	2.13	0.40
3:A6:516:TRP:O	6:D3:683:LYS:HG2	2.22	0.40
6:D4:472:PHE:O	6:D4:476:VAL:HG23	2.21	0.40
6:D5:237:PRO:O	31:c3:478:SER:HB3	2.21	0.40
6:D5:472:PHE:O	6:D5:476:VAL:HG23	2.21	0.40
8:F1:1264:ARG:CB	17:O2:263:GLN:CA	2.86	0.40
9:G1:260:THR:HG23	17:O2:259:ASP:CB	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:841:PHE:CG	17:O1:243:LEU:HD13	2.48	0.40
11:I1:937:TYR:O	17:O1:258:GLU:C	2.64	0.40
11:I1:940:LEU:CB	17:O1:259:ASP:C	2.80	0.40
11:I1:958:THR:OG1	16:N1:399:HIS:HA	2.21	0.40
11:I1:992:ILE:HD12	15:M1:608:LYS:HB3	1.31	0.40
11:I1:1038:ILE:CG1	20:R1:167:GLN:CD	2.93	0.40
11:I2:899:LEU:CD2	17:O3:235:ASN:HB2	2.48	0.40
11:I2:936:LYS:HA	15:M3:609:GLY:O	2.21	0.40
11:I2:945:LEU:CB	17:O3:260:LEU:N	2.70	0.40
11:I2:1644:ARG:NH2	11:I2:1721:GLU:OE1	2.54	0.40
17:O3:102:LYS:N	18:P3:322:LYS:CD	2.72	0.40
21:S2:948:LYS:O	21:S2:952:THR:HG22	2.22	0.40
21:S3:321:THR:HG22	21:S3:338:VAL:HG11	2.02	0.40
21:S3:948:LYS:O	21:S3:952:THR:HG22	2.22	0.40
21:S3:997:GLU:O	21:S3:1000:ARG:HB2	2.21	0.40
22:T2:685:ARG:HA	22:T2:685:ARG:HD3	1.93	0.40
22:T3:797:MET:HE2	22:T3:797:MET:HB3	1.98	0.40
22:T4:862:HIS:CE1	22:T4:903:LYS:HB3	2.56	0.40
23:U1:7:TYR:O	23:U1:9:THR:N	2.54	0.40
23:U1:156:CYS:HB2	24:V1:351:ILE:HG12	2.03	0.40
23:U1:294:LEU:O	23:U1:298:ILE:HD12	2.22	0.40
23:U1:401:PRO:HB2	31:c2:554:LEU:CB	2.50	0.40
23:U1:432:TYR:CE1	31:c2:470:ARG:NE	2.88	0.40
23:U2:9:THR:HG22	23:U2:9:THR:O	2.22	0.40
23:U2:412:LEU:O	31:c4:541:ARG:NE	2.51	0.40
23:U3:363:VAL:HG11	23:U3:408:ASP:OD1	2.21	0.40
24:V2:153:LYS:HG2	25:W2:261:SER:HB2	2.03	0.40
24:V2:683:LYS:N	31:c2:53:ILE:HG22	2.36	0.40
24:V4:153:LYS:HG2	25:W4:261:SER:HB2	2.03	0.40
24:V4:492:LEU:HD11	24:V4:508:ILE:HG23	2.04	0.40
25:W2:140:ILE:HG22	25:W2:141:ILE:N	2.37	0.40
25:W3:233:ILE:HD11	25:W3:248:LEU:HD13	2.03	0.40
25:W4:74:SER:OG	25:W4:75:TYR:N	2.55	0.40
26:X2:246:TRP:CD1	26:X2:331:TYR:CD2	3.09	0.40
26:X2:367:SER:O	34:i:441:LEU:HD21	2.02	0.40
27:Y1:175:PRO:HD3	27:Y1:220:TRP:HB3	2.02	0.40
27:Y4:175:PRO:HD3	27:Y4:220:TRP:HB3	2.02	0.40
28:Z1:526:ARG:HB2	30:b1:208:ASN:H	1.85	0.40
28:Z1:554:PHE:CE2	30:b1:234:LEU:N	2.89	0.40
28:Z3:561:GLN:NE2	30:b3:235:LEU:HD23	2.36	0.40
28:Z4:349:LEU:HB2	28:Z4:368:VAL:CG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:540:LEU:HB2	30:b4:182:PRO:HB3	1.88	0.40
30:b1:51:PRO:O	30:b1:53:SER:N	2.45	0.40
30:b3:213:ASP:OD1	30:b3:215:THR:OG1	2.36	0.40
30:b4:8:TYR:CD2	30:b4:58:LEU:HB2	2.57	0.40
30:b4:191:GLN:O	30:b4:201:ILE:HG22	2.21	0.40
31:c1:11:TYR:O	31:c1:14:SER:OG	2.23	0.40
31:c1:267:GLN:HG2	31:c1:398:THR:O	2.21	0.40
31:c2:461:PHE:CE2	31:c2:484:LEU:HD13	2.56	0.40
31:c2:609:VAL:O	31:c2:612:LEU:N	2.54	0.40
31:c3:267:GLN:HG2	31:c3:398:THR:O	2.21	0.40
33:h:152:MET:HE2	33:h:165:CYS:HB3	2.04	0.40
1:A1:1052:THR:CA	6:D1:812:VAL:HG11	2.51	0.40
2:A2:779:ASP:HB3	6:D1:679:ILE:C	2.44	0.40
2:A2:864:ARG:O	6:D1:608:ILE:CD1	2.59	0.40
2:A2:970:PHE:H	6:D1:196:ILE:CD1	2.01	0.40
1:A3:1204:TRP:HA	2:A4:672:ARG:HD2	2.02	0.40
1:A3:1227:PRO:CB	3:A6:551:GLN:HB2	2.52	0.40
2:A4:87:GLN:HB3	3:A6:407:SER:HB2	1.56	0.40
2:A4:90:GLN:N	3:A6:406:LEU:CA	2.73	0.40
2:A4:574:ARG:HG2	3:A6:455:LEU:HB3	1.65	0.40
2:A4:575:LEU:HG	2:A4:605:TYR:CE1	2.57	0.40
2:A4:613:ALA:O	3:A6:509:LYS:CD	2.69	0.40
2:A4:621:GLN:HE22	3:A6:110:TYR:HD2	1.56	0.40
2:A4:715:GLU:CB	3:A6:515:THR:N	2.85	0.40
2:A4:719:ARG:HD2	3:A6:111:GLU:H	1.50	0.40
2:A4:732:GLN:C	3:A6:94:SER:N	2.79	0.40
2:A4:761:GLN:CD	3:A6:535:PHE:CE1	2.96	0.40
2:A4:761:GLN:HE21	3:A6:545:GLY:C	2.18	0.40
2:A4:860:GLU:CD	3:A6:129:ASN:HB3	2.43	0.40
2:A4:865:ALA:CB	6:D3:567:LEU:CD1	2.98	0.40
2:A4:870:HIS:CB	6:D3:548:LEU:HA	2.39	0.40
2:A4:897:ASN:ND2	3:A6:165:PHE:HB2	2.29	0.40
2:A4:907:SER:HB2	6:D3:601:PHE:O	2.22	0.40
2:A4:1151:THR:HA	5:C4:733:LEU:CB	2.51	0.40
3:A5:1374:ALA:H	28:Z2:824:PHE:CA	2.28	0.40
3:A6:943:ASP:OD1	3:A6:944:SER:N	2.55	0.40
6:D2:782:ASP:OD1	6:D2:783:SER:N	2.54	0.40
6:D4:606:LYS:N	6:D4:607:PRO:HD2	2.36	0.40
6:D7:245:ARG:HG3	6:D7:503:LEU:HD21	2.03	0.40
8:F1:1669:GLU:HG2	8:F1:1670:ASN:N	2.36	0.40
8:F1:1776:THR:O	8:F1:1776:THR:HG23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:462:SER:N	8:F2:463:PRO:CD	2.84	0.40
8:F2:1669:GLU:HG2	8:F2:1670:ASN:N	2.36	0.40
11:I1:860:LEU:HD23	17:O1:258:GLU:HB3	2.03	0.40
11:I1:884:LEU:CD2	15:M1:595:MET:SD	3.05	0.40
11:I1:978:LYS:O	15:M1:621:ARG:NH1	2.55	0.40
11:I1:1059:PRO:CD	17:O1:277:GLU:HB2	2.48	0.40
11:I1:1737:GLU:C	11:I2:1607:GLN:OE1	2.61	0.40
11:I2:942:HIS:C	17:O3:259:ASP:OD2	2.65	0.40
11:I2:950:LEU:CG	16:N3:406:HIS:CD2	3.05	0.40
11:I2:951:LYS:CD	16:N3:404:GLU:HB2	2.38	0.40
11:I2:956:ILE:HG21	15:M3:600:ASN:N	2.37	0.40
11:I2:1065:SER:HA	17:O3:274:GLY:HA3	2.03	0.40
11:I2:1106:LYS:CD	16:N3:440:GLU:OE2	2.69	0.40
11:I4:1277:LEU:CG	26:X3:517:ASP:HB2	2.31	0.40
11:I4:1371:LEU:HD23	11:I4:1371:LEU:C	2.46	0.40
11:I5:629:VAL:HG23	11:I5:630:ASP:N	2.37	0.40
17:O3:142:PHE:O	17:O3:145:ILE:HG22	2.22	0.40
17:O4:111:TYR:OH	18:P4:321:ILE:HG12	2.21	0.40
21:S2:209:TYR:HA	21:S2:224:SER:HA	2.03	0.40
21:S2:931:ALA:HA	21:S2:935:LEU:HB2	2.03	0.40
21:S2:1036:ILE:HG13	21:S2:1048:PHE:HE2	1.86	0.40
21:S2:1069:LEU:C	21:S2:1071:LEU:N	2.76	0.40
21:S3:408:THR:HG23	21:S3:410:PRO:HD3	2.03	0.40
21:S3:1058:ILE:HG22	21:S3:1059:ASP:N	2.35	0.40
21:S4:96:LEU:HD12	21:S4:96:LEU:HA	1.86	0.40
22:T1:741:ASP:OD1	31:c5:24:GLN:NE2	2.55	0.40
22:T2:760:PHE:CD2	22:T2:760:PHE:C	3.00	0.40
22:T3:675:ILE:HD13	22:T3:675:ILE:HA	1.87	0.40
22:T3:911:LEU:HD22	22:T3:916:LEU:HD12	2.04	0.40
23:U1:24:ILE:O	31:c2:601:ARG:NE	2.54	0.40
23:U1:35:PRO:CB	31:c2:556:GLN:HG2	2.42	0.40
23:U1:38:ILE:HD11	31:c2:473:THR:C	2.37	0.40
23:U2:237:ILE:C	23:U2:237:ILE:HD12	2.47	0.40
23:U2:391:HIS:HD2	31:c4:477:GLU:C	2.06	0.40
23:U2:425:LEU:HD23	23:U2:425:LEU:HA	1.90	0.40
23:U2:439:SER:C	31:c4:428:ARG:HD2	2.47	0.40
23:U4:363:VAL:HG11	23:U4:408:ASP:OD1	2.21	0.40
24:V2:526:HIS:O	24:V2:528:LEU:N	2.55	0.40
25:W1:14:ASP:OD1	25:W1:15:ALA:N	2.54	0.40
25:W1:78:LYS:HA	25:W1:96:ALA:HB2	2.03	0.40
25:W2:48:THR:O	25:W2:49:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W4:23:ARG:NH1	25:W4:84:GLU:OE1	2.54	0.40
25:W4:48:THR:O	25:W4:49:LEU:HD23	2.21	0.40
26:X1:240:PHE:CD1	26:X1:268:SER:HB3	2.56	0.40
26:X1:373:GLU:O	26:X1:377:MET:HG3	2.21	0.40
26:X2:51:MET:HE2	26:X2:91:TYR:CG	2.57	0.40
26:X2:77:GLN:HE21	26:X2:77:GLN:HB2	1.74	0.40
26:X2:196:ASP:O	34:i:364:TYR:CE2	2.73	0.40
26:X2:280:VAL:HG11	34:i:84:ARG:HH21	1.86	0.40
26:X3:240:PHE:CD1	26:X3:268:SER:HB3	2.56	0.40
26:X4:434:PHE:CD2	26:X4:458:ARG:HA	2.56	0.40
26:X4:531:LEU:HB3	26:X4:534:ILE:CG1	2.51	0.40
28:Z1:457:PHE:HA	28:Z1:477:GLN:HB2	2.04	0.40
28:Z1:561:GLN:CB	30:b1:236:THR:H	1.96	0.40
28:Z2:117:LEU:HD23	28:Z2:117:LEU:HA	1.90	0.40
28:Z2:406:ARG:CG	30:b2:252:ALA:HB3	2.41	0.40
28:Z2:531:LYS:NZ	30:b2:166:LEU:HB2	2.20	0.40
28:Z2:554:PHE:CE2	30:b2:234:LEU:N	2.89	0.40
28:Z3:555:LYS:CG	30:b3:233:TRP:HA	2.50	0.40
28:Z4:165:PHE:HB3	28:Z4:177:PHE:HB2	2.04	0.40
28:Z4:554:PHE:CE2	30:b4:234:LEU:N	2.89	0.40
28:Z4:555:LYS:CG	30:b4:233:TRP:HA	2.50	0.40
28:Z4:561:GLN:NE2	30:b4:235:LEU:HD23	2.36	0.40
29:a2:365:CYS:SG	29:a2:373:TYR:HB2	2.61	0.40
30:b1:56:LEU:HB2	30:b1:371:HIS:NE2	2.37	0.40
30:b3:196:ASN:HA	30:b3:197:PRO:HD2	1.95	0.40
31:c2:267:GLN:HG2	31:c2:398:THR:O	2.21	0.40
31:c5:353:GLN:OE1	31:c5:518:PRO:HD3	2.21	0.40
31:c5:410:ASP:O	31:c5:411:VAL:HG12	2.21	0.40
31:c5:461:PHE:CE2	31:c5:484:LEU:HD13	2.56	0.40
33:h:91:VAL:HG13	33:h:96:GLU:OE1	2.21	0.40
1:A1:868:GLN:C	6:D3:277:ASN:H	2.30	0.40
2:A2:827:ILE:HD11	2:A2:857:LYS:C	2.46	0.40
2:A2:873:PRO:CA	6:D1:563:GLU:HB3	2.50	0.40
2:A2:1137:ALA:HB1	3:A5:564:ASN:CA	2.42	0.40
1:A3:1040:PHE:CD2	1:A3:1040:PHE:C	2.99	0.40
1:A3:1195:PHE:CD2	3:A6:678:LEU:HB3	2.56	0.40
1:A3:1201:ARG:CB	2:A4:735:ALA:CA	2.91	0.40
1:A3:1220:PRO:HG2	2:A4:672:ARG:HE	1.86	0.40
1:A3:1277:TRP:CH2	3:A6:621:GLN:HB3	2.56	0.40
2:A4:78:VAL:C	3:A6:385:PRO:CG	2.94	0.40
2:A4:717:VAL:HG21	3:A6:476:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:CG1	3:A6:476:PHE:HB3	2.50	0.40
2:A4:763:LEU:HD12	3:A6:470:ARG:O	2.21	0.40
2:A4:790:ASP:OD2	3:A6:186:ILE:HG22	2.21	0.40
2:A4:864:ARG:HG2	6:D3:609:ILE:HG12	2.02	0.40
2:A4:954:ILE:C	4:B6:345:LYS:CA	2.89	0.40
2:A4:988:ARG:HH21	6:D3:500:LYS:N	2.17	0.40
2:A4:989:MSE:HG3	6:D3:500:LYS:HB3	2.04	0.40
3:A5:189:VAL:CG2	5:C2:742:ASP:HB2	2.51	0.40
3:A5:996:ASN:OD1	11:I5:54:LYS:O	2.39	0.40
3:A5:1310:ARG:C	28:Z2:831:LEU:O	2.61	0.40
3:A5:1405:LEU:N	28:Z2:918:PHE:CA	2.73	0.40
3:A6:1139:ILE:HD11	5:C6:743:LEU:HD11	2.02	0.40
6:D2:536:THR:O	6:D2:540:GLU:HB3	2.22	0.40
6:D2:606:LYS:N	6:D2:607:PRO:HD2	2.36	0.40
6:D6:691:LEU:HD11	6:D6:717:LEU:HD23	2.03	0.40
6:D7:334:ALA:O	6:D7:338:VAL:HG23	2.22	0.40
8:F2:701:GLU:OE2	8:F2:701:GLU:N	2.53	0.40
11:I1:880:MET:CG	17:O1:247:TRP:CE3	3.04	0.40
11:I1:889:THR:N	17:O1:242:ARG:NE	2.69	0.40
11:I1:937:TYR:C	17:O1:257:ALA:O	2.56	0.40
11:I1:966:TRP:CA	20:R1:154:ALA:HB2	2.35	0.40
11:I1:991:THR:C	15:M1:608:LYS:HG3	2.29	0.40
11:I1:1013:GLU:HA	16:N1:411:GLN:HE22	1.86	0.40
11:I1:1036:PRO:HD3	16:N1:441:PHE:CE2	2.56	0.40
11:I1:1043:LEU:C	16:N1:430:ARG:HD2	2.47	0.40
11:I1:1067:PHE:HB3	16:N1:432:TYR:H	1.86	0.40
11:I2:920:PHE:CZ	17:O3:247:TRP:CE3	2.80	0.40
11:I2:967:SER:OG	15:M3:625:GLY:N	2.50	0.40
11:I2:976:ARG:NE	20:R3:143:PHE:C	2.68	0.40
11:I2:977:ASN:O	20:R3:151:LYS:CB	2.63	0.40
11:I2:1045:PHE:HE1	17:O3:279:ILE:CG2	2.27	0.40
11:I3:814:SER:O	26:X1:496:THR:CG2	2.67	0.40
11:I4:819:MET:HE2	26:X3:502:MET:CA	2.51	0.40
11:I4:819:MET:CA	26:X3:501:LYS:HZ3	2.27	0.40
11:I4:1182:GLN:NE2	12:J4:245:GLU:CB	2.80	0.40
11:I4:1644:ARG:NH2	11:I4:1721:GLU:OE1	2.54	0.40
11:I5:1282:PHE:CE2	29:a2:23[A]:PRO:HG2	2.57	0.40
11:I5:1371:LEU:HD23	11:I5:1371:LEU:C	2.46	0.40
11:I5:1605:LEU:C	11:I5:1605:LEU:HD12	2.46	0.40
21:S1:953:LEU:HD13	21:S1:973:LEU:HB3	2.03	0.40
21:S2:1002:LEU:O	21:S2:1004:HIS:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:686:ALA:CB	21:S4:1153:GLN:HA	2.48	0.40
21:S3:965:ALA:HB2	21:S3:1021:SER:HB2	2.02	0.40
21:S4:433:GLY:HA2	21:S4:436:SER:OG	2.22	0.40
21:S4:953:LEU:HD13	21:S4:973:LEU:HB3	2.03	0.40
22:T1:812:ASP:O	22:T1:816:LYS:HG2	2.21	0.40
22:T2:785:LYS:O	22:T2:789:GLU:HG3	2.21	0.40
22:T4:703:LYS:HE2	22:T4:856:MET:SD	2.61	0.40
23:U1:398:ILE:CG2	31:c2:475:ALA:HA	2.46	0.40
23:U2:363:VAL:HG11	23:U2:408:ASP:OD1	2.21	0.40
23:U3:335:HIS:C	23:U3:339:SER:HG	2.30	0.40
23:U4:237:ILE:HD12	23:U4:237:ILE:C	2.47	0.40
24:V1:373:LEU:HB3	24:V1:376:LEU:HD12	2.02	0.40
24:V4:312:ILE:HD13	24:V4:312:ILE:HA	1.96	0.40
24:V4:417:ASP:O	24:V4:421:VAL:HG23	2.22	0.40
25:W1:227:GLN:C	25:W1:229:ARG:H	2.29	0.40
25:W2:78:LYS:HA	25:W2:96:ALA:HB2	2.03	0.40
25:W4:59:VAL:HB	25:W4:70:LEU:HD11	2.03	0.40
25:W4:140:ILE:HG22	25:W4:141:ILE:N	2.37	0.40
26:X1:105:SER:HB2	26:X1:481:LEU:HD21	2.04	0.40
26:X2:295:TYR:HA	26:X2:296:PRO:HD3	1.89	0.40
26:X4:227:VAL:C	26:X4:229:SER:N	2.79	0.40
26:X4:240:PHE:CD1	26:X4:268:SER:HB3	2.56	0.40
27:Y2:29:SER:C	27:Y2:31:GLN:N	2.78	0.40
27:Y3:77:TYR:HD1	27:Y3:110:SER:HB3	1.86	0.40
28:Z1:382:VAL:HG21	28:Z1:495:TYR:CD1	2.57	0.40
28:Z3:72:PHE:HD1	28:Z3:72:PHE:HA	1.75	0.40
28:Z3:354:LEU:HD21	28:Z3:460:ALA:HB1	2.04	0.40
28:Z3:683:SER:OG	28:Z3:686:PHE:HB2	2.22	0.40
28:Z4:167:PHE:O	28:Z4:174:SER:HB2	2.21	0.40
30:b1:78:SER:OG	30:b1:144:ASP:OD2	2.27	0.40
30:b3:56:LEU:HB2	30:b3:371:HIS:NE2	2.37	0.40
30:b4:261:ILE:HG13	30:b4:326:MET:HE3	2.04	0.40
31:c3:356:HIS:O	31:c3:360:ASN:ND2	2.52	0.40
31:c5:482:LEU:O	31:c5:486:VAL:HG23	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A1	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100	100
1	A3	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100	100
2	A2	1255/1328 (94%)	1183 (94%)	54 (4%)	18 (1%)	9	40
2	A4	1255/1328 (94%)	1182 (94%)	55 (4%)	18 (1%)	9	40
3	A5	1258/1330 (95%)	1224 (97%)	34 (3%)	0	100	100
3	A6	1258/1330 (95%)	1224 (97%)	34 (3%)	0	100	100
4	B1	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B2	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B3	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B4	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B5	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B6	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
5	C1	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C2	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C3	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C4	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C5	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C6	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
6	D1	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D2	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D3	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D4	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D5	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D6	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D7	615/644 (96%)	604 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	E1	6/8 (75%)	6 (100%)	0	0	100	100
7	E2	6/8 (75%)	6 (100%)	0	0	100	100
7	E3	6/8 (75%)	6 (100%)	0	0	100	100
7	E4	6/8 (75%)	6 (100%)	0	0	100	100
7	E5	6/8 (75%)	6 (100%)	0	0	100	100
7	E6	6/8 (75%)	6 (100%)	0	0	100	100
7	E7	6/8 (75%)	6 (100%)	0	0	100	100
8	F1	1611/1858 (87%)	1589 (99%)	22 (1%)	0	100	100
8	F2	1611/1858 (87%)	1589 (99%)	22 (1%)	0	100	100
9	G1	51/53 (96%)	51 (100%)	0	0	100	100
9	G2	51/53 (96%)	51 (100%)	0	0	100	100
10	H1	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
10	H2	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
11	I1	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I2	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I3	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I4	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I5	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
12	J1	61/63 (97%)	61 (100%)	0	0	100	100
12	J2	61/63 (97%)	61 (100%)	0	0	100	100
12	J3	61/63 (97%)	61 (100%)	0	0	100	100
12	J4	61/63 (97%)	61 (100%)	0	0	100	100
12	J5	61/63 (97%)	61 (100%)	0	0	100	100
13	K1	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K2	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K3	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K4	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K5	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
15	M1	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M2	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M3	165/183 (90%)	158 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	M4	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
16	N1	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N2	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N3	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N4	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
17	O1	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
17	O2	239/241 (99%)	212 (89%)	27 (11%)	0	100	100
17	O3	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
17	O4	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
18	P1	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P2	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P3	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P4	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
19	Q1	83/84 (99%)	81 (98%)	2 (2%)	0	100	100
19	Q2	79/84 (94%)	77 (98%)	2 (2%)	0	100	100
19	Q3	83/84 (99%)	81 (98%)	2 (2%)	0	100	100
19	Q4	79/84 (94%)	77 (98%)	2 (2%)	0	100	100
20	R1	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R2	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R3	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R4	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
21	S1	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	6	34
21	S2	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	6	34
21	S3	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	6	34
21	S4	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	6	34
22	T1	243/258 (94%)	235 (97%)	8 (3%)	0	100	100
22	T2	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
22	T3	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
22	T4	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
23	U1	410/436 (94%)	365 (89%)	34 (8%)	11 (3%)	4	25
23	U2	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	4	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	U3	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	4	25
23	U4	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	4	25
24	V1	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	6	31
24	V2	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	6	31
24	V3	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	6	31
24	V4	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	6	31
25	W1	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	5	29
25	W2	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	5	29
25	W3	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	5	29
25	W4	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	5	29
26	X1	592/698 (85%)	531 (90%)	51 (9%)	10 (2%)	7	36
26	X2	592/698 (85%)	531 (90%)	51 (9%)	10 (2%)	7	36
26	X3	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	7	36
26	X4	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	7	36
27	Y1	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	6	31
27	Y2	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	6	31
27	Y3	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	6	31
27	Y4	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	6	31
28	Z1	858/1037 (83%)	798 (93%)	50 (6%)	10 (1%)	10	44
28	Z2	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
28	Z3	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
28	Z4	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
29	a1	334/380 (88%)	325 (97%)	9 (3%)	0	100	100
29	a2	334/380 (88%)	325 (97%)	9 (3%)	0	100	100
29	a3	334/380 (88%)	325 (97%)	9 (3%)	0	100	100
29	a4	334/380 (88%)	325 (97%)	9 (3%)	0	100	100
30	b1	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	36	72
30	b2	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	36	72
30	b3	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	36	72
30	b4	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	36	72
31	c1	736/750 (98%)	727 (99%)	9 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
31	c2	736/750 (98%)	727 (99%)	9 (1%)	0	100 100
31	c3	736/750 (98%)	727 (99%)	9 (1%)	0	100 100
31	c4	736/750 (98%)	727 (99%)	9 (1%)	0	100 100
31	c5	736/750 (98%)	727 (99%)	9 (1%)	0	100 100
32	g	419/421 (100%)	404 (96%)	14 (3%)	1 (0%)	43 78
33	h	230/232 (99%)	217 (94%)	10 (4%)	3 (1%)	9 42
34	i	408/481 (85%)	401 (98%)	7 (2%)	0	100 100
35	j	149/150 (99%)	144 (97%)	4 (3%)	1 (1%)	18 56
36	k1	83/85 (98%)	79 (95%)	4 (5%)	0	100 100
37	k2	35/37 (95%)	35 (100%)	0	0	100 100
All	All	50288/56810 (88%)	47822 (95%)	2142 (4%)	324 (1%)	23 59

All (324) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A2	521	ASN
2	A2	1024	ASP
2	A2	1305	ALA
2	A2	1342	SER
2	A2	1345	SER
2	A4	521	ASN
2	A4	1024	ASP
2	A4	1305	ALA
2	A4	1342	SER
2	A4	1345	SER
21	S1	619	GLY
21	S1	623	ARG
21	S1	627	PHE
21	S1	679	ILE
21	S1	680	PRO
21	S1	685	PRO
21	S1	867	CYS
21	S1	869	PHE
21	S1	933	GLU
21	S2	619	GLY
21	S2	623	ARG
21	S2	627	PHE
21	S2	679	ILE

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Mol	Chain	Res	Type
21	S2	680	PRO
21	S2	685	PRO
21	S2	867	CYS
21	S2	869	PHE
21	S2	933	GLU
21	S3	619	GLY
21	S3	623	ARG
21	S3	627	PHE
21	S3	679	ILE
21	S3	680	PRO
21	S3	685	PRO
21	S3	867	CYS
21	S3	869	PHE
21	S3	933	GLU
21	S4	619	GLY
21	S4	623	ARG
21	S4	627	PHE
21	S4	680	PRO
21	S4	685	PRO
21	S4	867	CYS
21	S4	869	PHE
21	S4	933	GLU
23	U1	9	THR
23	U1	11	ARG
23	U1	138	ASN
23	U1	165	ASN
23	U2	9	THR
23	U2	11	ARG
23	U2	138	ASN
23	U2	165	ASN
23	U3	9	THR
23	U3	11	ARG
23	U3	138	ASN
23	U3	165	ASN
23	U4	9	THR
23	U4	11	ARG
23	U4	138	ASN
23	U4	165	ASN
24	V1	158	SER
24	V1	368	GLU
24	V1	371	PHE
24	V1	394	GLN

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Mol	Chain	Res	Type
24	V2	158	SER
24	V2	368	GLU
24	V2	371	PHE
24	V2	394	GLN
24	V3	158	SER
24	V3	368	GLU
24	V3	371	PHE
24	V3	394	GLN
24	V4	158	SER
24	V4	368	GLU
24	V4	371	PHE
24	V4	394	GLN
26	X1	272	PRO
26	X1	403	HIS
26	X1	455	PHE
26	X2	272	PRO
26	X2	403	HIS
26	X2	455	PHE
26	X3	272	PRO
26	X3	403	HIS
26	X3	455	PHE
26	X4	272	PRO
26	X4	403	HIS
26	X4	455	PHE
27	Y1	43	SER
27	Y2	43	SER
27	Y3	43	SER
27	Y4	43	SER
2	A2	697	SER
2	A2	1038	THR
2	A2	1244	LEU
2	A2	1350	VAL
2	A4	697	SER
2	A4	1038	THR
2	A4	1244	LEU
2	A4	1350	VAL
21	S1	629	VAL
21	S1	1003	LEU
21	S2	629	VAL
21	S2	1003	LEU
21	S3	629	VAL
21	S3	1003	LEU

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Mol	Chain	Res	Type
21	S4	629	VAL
21	S4	679	ILE
21	S4	1003	LEU
23	U1	8	GLN
23	U1	55	ASN
23	U1	141	THR
23	U1	354	SER
23	U2	8	GLN
23	U2	55	ASN
23	U2	141	THR
23	U2	354	SER
23	U3	8	GLN
23	U3	55	ASN
23	U3	141	THR
23	U3	354	SER
23	U4	8	GLN
23	U4	55	ASN
23	U4	141	THR
23	U4	354	SER
24	V1	180	LEU
24	V1	348	GLY
24	V1	429	ASN
24	V1	527	ILE
24	V2	180	LEU
24	V2	348	GLY
24	V2	429	ASN
24	V2	527	ILE
24	V3	180	LEU
24	V3	348	GLY
24	V3	429	ASN
24	V3	527	ILE
24	V4	180	LEU
24	V4	348	GLY
24	V4	429	ASN
24	V4	527	ILE
25	W1	218	LEU
25	W2	218	LEU
25	W3	218	LEU
25	W4	218	LEU
26	X1	62	GLY
26	X1	239	VAL
26	X2	62	GLY

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Mol	Chain	Res	Type
26	X2	239	VAL
26	X3	62	GLY
26	X3	239	VAL
26	X4	62	GLY
26	X4	239	VAL
27	Y1	162	ALA
27	Y1	302	ASP
27	Y2	162	ALA
27	Y2	302	ASP
27	Y3	162	ALA
27	Y3	302	ASP
27	Y4	162	ALA
27	Y4	302	ASP
28	Z1	113	VAL
28	Z1	598	LYS
28	Z1	602	ILE
28	Z2	113	VAL
28	Z2	598	LYS
28	Z2	602	ILE
28	Z3	113	VAL
28	Z3	598	LYS
28	Z3	602	ILE
28	Z4	113	VAL
28	Z4	598	LYS
28	Z4	602	ILE
30	b1	50	THR
30	b2	50	THR
30	b3	50	THR
30	b4	50	THR
32	g	334	ASP
33	h	90	SER
2	A2	520	GLU
2	A2	790	ASP
2	A2	1339	ALA
2	A4	520	GLU
2	A4	790	ASP
2	A4	1339	ALA
21	S1	101	VAL
21	S1	628	PRO
21	S1	828	ASN
21	S2	101	VAL
21	S2	628	PRO

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Mol	Chain	Res	Type
21	S2	828	ASN
21	S3	101	VAL
21	S3	628	PRO
21	S3	828	ASN
21	S4	101	VAL
21	S4	628	PRO
21	S4	828	ASN
23	U1	434	THR
23	U2	434	THR
23	U2	440	ASP
23	U3	434	THR
23	U3	440	ASP
23	U4	434	THR
23	U4	440	ASP
26	X1	404	SER
26	X2	404	SER
26	X3	404	SER
26	X4	404	SER
27	Y1	120	HIS
27	Y2	120	HIS
27	Y3	120	HIS
27	Y4	120	HIS
28	Z1	264	ASP
28	Z2	264	ASP
28	Z3	264	ASP
28	Z4	264	ASP
33	h	227	LYS
2	A2	226	PRO
2	A2	292	HIS
2	A2	699	SER
2	A2	1220	PRO
2	A2	1347	SER
2	A4	226	PRO
2	A4	292	HIS
2	A4	699	SER
2	A4	1220	PRO
2	A4	1347	SER
23	U1	87	ALA
23	U1	440	ASP
23	U2	87	ALA
23	U3	87	ALA
23	U4	87	ALA

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Mol	Chain	Res	Type
24	V1	531	LEU
24	V2	531	LEU
24	V3	531	LEU
24	V4	531	LEU
27	Y1	213	SER
27	Y2	213	SER
27	Y3	213	SER
27	Y4	213	SER
28	Z1	284	ASN
28	Z1	346	ALA
28	Z2	284	ASN
28	Z2	346	ALA
28	Z3	284	ASN
28	Z3	346	ALA
28	Z4	284	ASN
28	Z4	346	ALA
2	A2	1025	SER
2	A4	1025	SER
21	S1	1128	ALA
21	S2	1128	ALA
21	S3	1128	ALA
21	S4	1128	ALA
25	W1	114	PRO
25	W1	131	LYS
25	W2	114	PRO
25	W2	131	LYS
25	W2	247	LEU
25	W3	114	PRO
25	W3	131	LYS
25	W4	114	PRO
25	W4	131	LYS
25	W4	247	LEU
26	X1	53	VAL
26	X1	200	ASN
26	X1	364	TYR
26	X2	53	VAL
26	X2	200	ASN
26	X2	364	TYR
26	X3	53	VAL
26	X3	200	ASN
26	X3	364	TYR
26	X4	53	VAL

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Mol	Chain	Res	Type
26	X4	200	ASN
26	X4	364	TYR
28	Z1	190	ASP
28	Z1	600	ASP
28	Z2	600	ASP
28	Z3	190	ASP
28	Z3	600	ASP
28	Z4	190	ASP
28	Z4	600	ASP
33	h	187	LYS
35	j	785	TYR
25	W1	247	LEU
25	W3	247	LEU
27	Y1	188	LEU
27	Y2	188	LEU
27	Y3	188	LEU
27	Y4	188	LEU
28	Z1	231	GLU
28	Z2	190	ASP
28	Z2	231	GLU
28	Z2	500	GLU
28	Z3	231	GLU
28	Z3	500	GLU
28	Z4	231	GLU
28	Z4	500	GLU
24	V1	393	GLY
24	V3	393	GLY
28	Z1	737	ILE
28	Z2	737	ILE
28	Z3	737	ILE
28	Z4	737	ILE
24	V2	393	GLY
24	V4	393	GLY
25	W1	202	GLY
25	W2	202	GLY
25	W3	202	GLY
25	W4	202	GLY
26	X1	191	ILE
26	X2	191	ILE
26	X3	191	ILE
26	X4	191	ILE
25	W1	97	VAL

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Mol	Chain	Res	Type
25	W2	97	VAL
25	W3	97	VAL
25	W4	97	VAL
21	S1	573	PRO
21	S2	573	PRO
21	S3	573	PRO
21	S4	573	PRO

5.3.2 Protein sidechains (i)

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

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A1	1061/1111 (96%)	1048 (99%)	13 (1%)	63 75
1	A3	1061/1111 (96%)	1048 (99%)	13 (1%)	63 75
2	A2	1073/1107 (97%)	978 (91%)	95 (9%)	9 28
2	A4	1073/1107 (97%)	978 (91%)	95 (9%)	9 28
3	A5	1087/1111 (98%)	1064 (98%)	23 (2%)	47 65
3	A6	1087/1111 (98%)	1064 (98%)	23 (2%)	47 65
4	B1	12/12 (100%)	12 (100%)	0	100 100
4	B2	12/12 (100%)	12 (100%)	0	100 100
4	B3	12/12 (100%)	12 (100%)	0	100 100
4	B4	12/12 (100%)	12 (100%)	0	100 100
4	B5	12/12 (100%)	12 (100%)	0	100 100
4	B6	12/12 (100%)	12 (100%)	0	100 100
5	C1	17/19 (90%)	17 (100%)	0	100 100
5	C2	19/19 (100%)	18 (95%)	1 (5%)	20 41
5	C3	17/19 (90%)	17 (100%)	0	100 100
5	C4	19/19 (100%)	18 (95%)	1 (5%)	20 41
5	C5	17/19 (90%)	17 (100%)	0	100 100
5	C6	17/19 (90%)	17 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	D1	554/575 (96%)	554 (100%)	0	100	100
6	D2	554/575 (96%)	554 (100%)	0	100	100
6	D3	554/575 (96%)	554 (100%)	0	100	100
6	D4	554/575 (96%)	554 (100%)	0	100	100
6	D5	554/575 (96%)	554 (100%)	0	100	100
6	D6	554/575 (96%)	554 (100%)	0	100	100
6	D7	554/575 (96%)	554 (100%)	0	100	100
7	E1	7/7 (100%)	7 (100%)	0	100	100
7	E2	7/7 (100%)	7 (100%)	0	100	100
7	E3	7/7 (100%)	7 (100%)	0	100	100
7	E4	7/7 (100%)	7 (100%)	0	100	100
7	E5	7/7 (100%)	7 (100%)	0	100	100
7	E6	7/7 (100%)	7 (100%)	0	100	100
7	E7	7/7 (100%)	7 (100%)	0	100	100
8	F1	1350/1512 (89%)	1350 (100%)	0	100	100
8	F2	1350/1512 (89%)	1350 (100%)	0	100	100
9	G1	47/47 (100%)	47 (100%)	0	100	100
9	G2	47/47 (100%)	47 (100%)	0	100	100
10	H1	10/10 (100%)	10 (100%)	0	100	100
10	H2	10/10 (100%)	10 (100%)	0	100	100
11	I1	1340/1509 (89%)	1339 (100%)	1 (0%)	88	89
11	I2	1340/1509 (89%)	1339 (100%)	1 (0%)	88	89
11	I3	1340/1509 (89%)	1339 (100%)	1 (0%)	88	89
11	I4	1340/1509 (89%)	1339 (100%)	1 (0%)	88	89
11	I5	1340/1509 (89%)	1339 (100%)	1 (0%)	88	89
12	J1	54/54 (100%)	54 (100%)	0	100	100
12	J2	54/54 (100%)	54 (100%)	0	100	100
12	J3	54/54 (100%)	54 (100%)	0	100	100
12	J4	54/54 (100%)	54 (100%)	0	100	100
12	J5	54/54 (100%)	54 (100%)	0	100	100
13	K1	9/9 (100%)	9 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	K2	9/9 (100%)	9 (100%)	0	100	100
13	K3	9/9 (100%)	9 (100%)	0	100	100
13	K4	9/9 (100%)	9 (100%)	0	100	100
13	K5	9/9 (100%)	9 (100%)	0	100	100
14	L1	1/1 (100%)	1 (100%)	0	100	100
14	L2	1/1 (100%)	1 (100%)	0	100	100
14	L3	1/1 (100%)	1 (100%)	0	100	100
14	L4	1/1 (100%)	1 (100%)	0	100	100
14	L5	1/1 (100%)	1 (100%)	0	100	100
15	M1	146/154 (95%)	146 (100%)	0	100	100
15	M2	146/154 (95%)	146 (100%)	0	100	100
15	M3	146/154 (95%)	146 (100%)	0	100	100
15	M4	146/154 (95%)	146 (100%)	0	100	100
16	N1	150/173 (87%)	150 (100%)	0	100	100
16	N2	150/173 (87%)	150 (100%)	0	100	100
16	N3	150/173 (87%)	150 (100%)	0	100	100
16	N4	150/173 (87%)	150 (100%)	0	100	100
17	O1	213/213 (100%)	208 (98%)	5 (2%)	44	64
17	O2	213/213 (100%)	208 (98%)	5 (2%)	44	64
17	O3	213/213 (100%)	208 (98%)	5 (2%)	44	64
17	O4	213/213 (100%)	208 (98%)	5 (2%)	44	64
18	P1	101/100 (101%)	101 (100%)	0	100	100
18	P2	101/100 (101%)	101 (100%)	0	100	100
18	P3	101/100 (101%)	101 (100%)	0	100	100
18	P4	101/100 (101%)	101 (100%)	0	100	100
19	Q1	70/69 (101%)	66 (94%)	4 (6%)	18	40
19	Q2	63/69 (91%)	62 (98%)	1 (2%)	55	70
19	Q3	70/69 (101%)	66 (94%)	4 (6%)	18	40
19	Q4	63/69 (91%)	62 (98%)	1 (2%)	55	70
20	R1	32/32 (100%)	32 (100%)	0	100	100
20	R2	32/32 (100%)	32 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	R3	32/32 (100%)	32 (100%)	0	100	100
20	R4	32/32 (100%)	32 (100%)	0	100	100
21	S1	488/1013 (48%)	457 (94%)	31 (6%)	16	37
21	S2	488/1013 (48%)	457 (94%)	31 (6%)	16	37
21	S3	488/1013 (48%)	457 (94%)	31 (6%)	16	37
21	S4	488/1013 (48%)	457 (94%)	31 (6%)	16	37
22	T1	211/231 (91%)	205 (97%)	6 (3%)	38	60
22	T2	211/231 (91%)	205 (97%)	6 (3%)	38	60
22	T3	211/231 (91%)	205 (97%)	6 (3%)	38	60
22	T4	211/231 (91%)	205 (97%)	6 (3%)	38	60
23	U1	386/402 (96%)	362 (94%)	24 (6%)	16	38
23	U2	387/402 (96%)	363 (94%)	24 (6%)	16	38
23	U3	387/402 (96%)	363 (94%)	24 (6%)	16	38
23	U4	387/402 (96%)	363 (94%)	24 (6%)	16	38
24	V1	367/567 (65%)	321 (88%)	46 (12%)	4	16
24	V2	367/567 (65%)	321 (88%)	46 (12%)	4	16
24	V3	367/567 (65%)	321 (88%)	46 (12%)	4	16
24	V4	367/567 (65%)	321 (88%)	46 (12%)	4	16
25	W1	233/243 (96%)	223 (96%)	10 (4%)	26	47
25	W2	233/243 (96%)	223 (96%)	10 (4%)	26	47
25	W3	233/243 (96%)	223 (96%)	10 (4%)	26	47
25	W4	233/243 (96%)	223 (96%)	10 (4%)	26	47
26	X1	424/628 (68%)	408 (96%)	16 (4%)	29	50
26	X2	424/628 (68%)	408 (96%)	16 (4%)	29	50
26	X3	424/628 (68%)	408 (96%)	16 (4%)	29	50
26	X4	424/628 (68%)	408 (96%)	16 (4%)	29	50
27	Y1	269/303 (89%)	258 (96%)	11 (4%)	27	49
27	Y2	269/303 (89%)	258 (96%)	11 (4%)	27	49
27	Y3	269/303 (89%)	258 (96%)	11 (4%)	27	49
27	Y4	269/303 (89%)	258 (96%)	11 (4%)	27	49
28	Z1	639/972 (66%)	611 (96%)	28 (4%)	25	47

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
28	Z2	639/972 (66%)	611 (96%)	28 (4%)	25 47
28	Z3	639/972 (66%)	611 (96%)	28 (4%)	25 47
28	Z4	639/972 (66%)	611 (96%)	28 (4%)	25 47
29	a1	293/335 (88%)	289 (99%)	4 (1%)	59 72
29	a2	293/335 (88%)	289 (99%)	4 (1%)	59 72
29	a3	293/335 (88%)	289 (99%)	4 (1%)	59 72
29	a4	293/335 (88%)	289 (99%)	4 (1%)	59 72
30	b1	299/337 (89%)	278 (93%)	21 (7%)	14 35
30	b2	299/337 (89%)	278 (93%)	21 (7%)	14 35
30	b3	299/337 (89%)	278 (93%)	21 (7%)	14 35
30	b4	299/337 (89%)	278 (93%)	21 (7%)	14 35
31	c1	663/670 (99%)	663 (100%)	0	100 100
31	c2	663/670 (99%)	663 (100%)	0	100 100
31	c3	663/670 (99%)	663 (100%)	0	100 100
31	c4	663/670 (99%)	663 (100%)	0	100 100
31	c5	663/670 (99%)	663 (100%)	0	100 100
32	g	373/373 (100%)	350 (94%)	23 (6%)	16 38
33	h	206/206 (100%)	190 (92%)	16 (8%)	11 32
34	i	372/425 (88%)	371 (100%)	1 (0%)	86 86
35	j	132/131 (101%)	132 (100%)	0	100 100
36	k1	82/82 (100%)	69 (84%)	13 (16%)	2 11
37	k2	33/33 (100%)	31 (94%)	2 (6%)	17 38
All	All	42167/49609 (85%)	41025 (97%)	1142 (3%)	40 61

All (1142) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	316	ARG
1	A1	422	LEU
1	A1	438	GLU
1	A1	489	LEU
1	A1	748	ILE
1	A1	779	ASP
1	A1	790	ASP

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Mol	Chain	Res	Type
1	A1	832	ASN
1	A1	862	LEU
1	A1	976	LEU
1	A1	983	LEU
1	A1	1116	HIS
1	A1	1160	GLN
2	A2	75	LEU
2	A2	83	GLN
2	A2	91	LEU
2	A2	113	GLN
2	A2	181	GLU
2	A2	189	VAL
2	A2	204	THR
2	A2	229	SER
2	A2	230	LYS
2	A2	232	LEU
2	A2	240	SER
2	A2	241	VAL
2	A2	243	ARG
2	A2	277	GLU
2	A2	279	ARG
2	A2	280	TRP
2	A2	282	SER
2	A2	284	ARG
2	A2	292	HIS
2	A2	307	PHE
2	A2	310	ARG
2	A2	311	GLN
2	A2	316	ARG
2	A2	367	ASP
2	A2	395	MET
2	A2	397	LEU
2	A2	411	SER
2	A2	446	LEU
2	A2	460	ARG
2	A2	481	ARG
2	A2	489	LEU
2	A2	491	VAL
2	A2	498	ARG
2	A2	500	LYS
2	A2	508	LEU
2	A2	519	LEU

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Mol	Chain	Res	Type
2	A2	520	GLU
2	A2	521	ASN
2	A2	530	LEU
2	A2	554	GLN
2	A2	575	LEU
2	A2	596	ARG
2	A2	623	SER
2	A2	634	ASP
2	A2	654	LEU
2	A2	676	LEU
2	A2	678	LEU
2	A2	687	LEU
2	A2	704	THR
2	A2	710	LEU
2	A2	719	ARG
2	A2	720	LEU
2	A2	725	GLU
2	A2	730	THR
2	A2	731	ILE
2	A2	734	LEU
2	A2	760	LEU
2	A2	772	SER
2	A2	781	ARG
2	A2	785	ILE
2	A2	798	LYS
2	A2	800	LEU
2	A2	805	LEU
2	A2	827	ILE
2	A2	942	ASN
2	A2	975	GLU
2	A2	983	LEU
2	A2	1014	LYS
2	A2	1018	ASP
2	A2	1020	ILE
2	A2	1021	LEU
2	A2	1023	ILE
2	A2	1029	ILE
2	A2	1034	ARG
2	A2	1038	THR
2	A2	1070	ASP
2	A2	1094	ILE
2	A2	1117	ILE

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Mol	Chain	Res	Type
2	A2	1133	GLU
2	A2	1175	ASP
2	A2	1201	ARG
2	A2	1213	LEU
2	A2	1232	SER
2	A2	1241	ARG
2	A2	1243	SER
2	A2	1285	LEU
2	A2	1314	LEU
2	A2	1321	MSE
2	A2	1329	GLU
2	A2	1332	ARG
2	A2	1348	GLU
2	A2	1350	VAL
2	A2	1377	ARG
2	A2	1390	LEU
2	A2	1405	LEU
1	A3	316	ARG
1	A3	422	LEU
1	A3	438	GLU
1	A3	489	LEU
1	A3	748	ILE
1	A3	779	ASP
1	A3	790	ASP
1	A3	832	ASN
1	A3	862	LEU
1	A3	976	LEU
1	A3	983	LEU
1	A3	1116	HIS
1	A3	1160	GLN
2	A4	75	LEU
2	A4	83	GLN
2	A4	91	LEU
2	A4	113	GLN
2	A4	181	GLU
2	A4	189	VAL
2	A4	204	THR
2	A4	229	SER
2	A4	230	LYS
2	A4	232	LEU
2	A4	240	SER
2	A4	241	VAL

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Mol	Chain	Res	Type
2	A4	243	ARG
2	A4	277	GLU
2	A4	279	ARG
2	A4	280	TRP
2	A4	282	SER
2	A4	284	ARG
2	A4	292	HIS
2	A4	307	PHE
2	A4	310	ARG
2	A4	311	GLN
2	A4	316	ARG
2	A4	367	ASP
2	A4	395	MET
2	A4	397	LEU
2	A4	411	SER
2	A4	446	LEU
2	A4	460	ARG
2	A4	481	ARG
2	A4	489	LEU
2	A4	491	VAL
2	A4	498	ARG
2	A4	500	LYS
2	A4	508	LEU
2	A4	519	LEU
2	A4	520	GLU
2	A4	521	ASN
2	A4	530	LEU
2	A4	554	GLN
2	A4	575	LEU
2	A4	596	ARG
2	A4	623	SER
2	A4	634	ASP
2	A4	654	LEU
2	A4	676	LEU
2	A4	678	LEU
2	A4	687	LEU
2	A4	704	THR
2	A4	710	LEU
2	A4	719	ARG
2	A4	720	LEU
2	A4	725	GLU
2	A4	730	THR

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Mol	Chain	Res	Type
2	A4	731	ILE
2	A4	734	LEU
2	A4	760	LEU
2	A4	772	SER
2	A4	781	ARG
2	A4	785	ILE
2	A4	798	LYS
2	A4	800	LEU
2	A4	805	LEU
2	A4	827	ILE
2	A4	942	ASN
2	A4	975	GLU
2	A4	983	LEU
2	A4	1014	LYS
2	A4	1018	ASP
2	A4	1020	ILE
2	A4	1021	LEU
2	A4	1023	ILE
2	A4	1029	ILE
2	A4	1034	ARG
2	A4	1038	THR
2	A4	1070	ASP
2	A4	1094	ILE
2	A4	1117	ILE
2	A4	1133	GLU
2	A4	1175	ASP
2	A4	1201	ARG
2	A4	1213	LEU
2	A4	1232	SER
2	A4	1241	ARG
2	A4	1243	SER
2	A4	1285	LEU
2	A4	1314	LEU
2	A4	1321	MSE
2	A4	1329	GLU
2	A4	1332	ARG
2	A4	1348	GLU
2	A4	1350	VAL
2	A4	1377	ARG
2	A4	1390	LEU
2	A4	1405	LEU
3	A5	316	ARG

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Mol	Chain	Res	Type
3	A5	422	LEU
3	A5	438	GLU
3	A5	489	LEU
3	A5	748	ILE
3	A5	779	ASP
3	A5	790	ASP
3	A5	832	ASN
3	A5	862	LEU
3	A5	946	LYS
3	A5	975	GLU
3	A5	1019	ARG
3	A5	1021	LEU
3	A5	1029	ILE
3	A5	1094	ILE
3	A5	1148	ARG
3	A5	1201	ARG
3	A5	1213	LEU
3	A5	1321	MSE
3	A5	1329	GLU
3	A5	1390	LEU
3	A5	1405	LEU
3	A5	1412	MSE
3	A6	316	ARG
3	A6	422	LEU
3	A6	438	GLU
3	A6	489	LEU
3	A6	748	ILE
3	A6	779	ASP
3	A6	790	ASP
3	A6	832	ASN
3	A6	862	LEU
3	A6	946	LYS
3	A6	975	GLU
3	A6	1019	ARG
3	A6	1021	LEU
3	A6	1029	ILE
3	A6	1094	ILE
3	A6	1148	ARG
3	A6	1201	ARG
3	A6	1213	LEU
3	A6	1321	MSE
3	A6	1329	GLU

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Mol	Chain	Res	Type
3	A6	1390	LEU
3	A6	1405	LEU
3	A6	1412	MSE
5	C2	731	LYS
5	C4	731	LYS
11	I1	1185	ILE
11	I2	1185	ILE
11	I3	1185	ILE
11	I4	1185	ILE
11	I5	1185	ILE
17	O1	107	THR
17	O1	156	ILE
17	O1	163	LEU
17	O1	246	LEU
17	O1	287	LEU
17	O2	107	THR
17	O2	156	ILE
17	O2	163	LEU
17	O2	246	LEU
17	O2	287	LEU
17	O3	107	THR
17	O3	156	ILE
17	O3	163	LEU
17	O3	246	LEU
17	O3	287	LEU
17	O4	107	THR
17	O4	156	ILE
17	O4	163	LEU
17	O4	246	LEU
17	O4	287	LEU
19	Q1	170	HIS
19	Q1	192	GLN
19	Q1	204[A]	MSE
19	Q1	204[B]	MSE
19	Q2	247	SER
19	Q3	170	HIS
19	Q3	192	GLN
19	Q3	204[A]	MSE
19	Q3	204[B]	MSE
19	Q4	247	SER
21	S1	82	LYS
21	S1	96	LEU

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Mol	Chain	Res	Type
21	S1	122	LYS
21	S1	123	LEU
21	S1	130	LEU
21	S1	170	THR
21	S1	181	GLU
21	S1	207	LYS
21	S1	236	SER
21	S1	299	LEU
21	S1	383	SER
21	S1	384	ASP
21	S1	399	SER
21	S1	408	THR
21	S1	465	SER
21	S1	626	SER
21	S1	648	SER
21	S1	694	SER
21	S1	934	HIS
21	S1	952	THR
21	S1	986	ASP
21	S1	997	GLU
21	S1	1034	LEU
21	S1	1036	ILE
21	S1	1039	GLU
21	S1	1052	LEU
21	S1	1064	ILE
21	S1	1066	ILE
21	S1	1083	TRP
21	S1	1097	LYS
21	S1	1105	LEU
21	S2	82	LYS
21	S2	96	LEU
21	S2	122	LYS
21	S2	123	LEU
21	S2	130	LEU
21	S2	170	THR
21	S2	181	GLU
21	S2	207	LYS
21	S2	236	SER
21	S2	299	LEU
21	S2	383	SER
21	S2	384	ASP
21	S2	399	SER

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Mol	Chain	Res	Type
21	S2	408	THR
21	S2	465	SER
21	S2	626	SER
21	S2	648	SER
21	S2	694	SER
21	S2	934	HIS
21	S2	952	THR
21	S2	986	ASP
21	S2	997	GLU
21	S2	1034	LEU
21	S2	1036	ILE
21	S2	1039	GLU
21	S2	1052	LEU
21	S2	1064	ILE
21	S2	1066	ILE
21	S2	1083	TRP
21	S2	1097	LYS
21	S2	1105	LEU
21	S3	82	LYS
21	S3	96	LEU
21	S3	122	LYS
21	S3	123	LEU
21	S3	130	LEU
21	S3	170	THR
21	S3	181	GLU
21	S3	207	LYS
21	S3	236	SER
21	S3	299	LEU
21	S3	383	SER
21	S3	384	ASP
21	S3	399	SER
21	S3	408	THR
21	S3	465	SER
21	S3	626	SER
21	S3	648	SER
21	S3	694	SER
21	S3	934	HIS
21	S3	952	THR
21	S3	986	ASP
21	S3	997	GLU
21	S3	1034	LEU
21	S3	1036	ILE

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Mol	Chain	Res	Type
21	S3	1039	GLU
21	S3	1052	LEU
21	S3	1064	ILE
21	S3	1066	ILE
21	S3	1083	TRP
21	S3	1097	LYS
21	S3	1105	LEU
21	S4	82	LYS
21	S4	96	LEU
21	S4	122	LYS
21	S4	123	LEU
21	S4	130	LEU
21	S4	170	THR
21	S4	181	GLU
21	S4	207	LYS
21	S4	236	SER
21	S4	299	LEU
21	S4	383	SER
21	S4	384	ASP
21	S4	399	SER
21	S4	408	THR
21	S4	465	SER
21	S4	626	SER
21	S4	648	SER
21	S4	694	SER
21	S4	934	HIS
21	S4	952	THR
21	S4	986	ASP
21	S4	997	GLU
21	S4	1034	LEU
21	S4	1036	ILE
21	S4	1039	GLU
21	S4	1052	LEU
21	S4	1064	ILE
21	S4	1066	ILE
21	S4	1083	TRP
21	S4	1097	LYS
21	S4	1105	LEU
22	T1	675	ILE
22	T1	685	ARG
22	T1	698	LYS
22	T1	786	VAL

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Mol	Chain	Res	Type
22	T1	810	THR
22	T1	885	ARG
22	T2	675	ILE
22	T2	685	ARG
22	T2	698	LYS
22	T2	786	VAL
22	T2	810	THR
22	T2	885	ARG
22	T3	675	ILE
22	T3	685	ARG
22	T3	698	LYS
22	T3	786	VAL
22	T3	810	THR
22	T3	885	ARG
22	T4	675	ILE
22	T4	685	ARG
22	T4	698	LYS
22	T4	786	VAL
22	T4	810	THR
22	T4	885	ARG
23	U1	13	THR
23	U1	17	ASP
23	U1	26	GLN
23	U1	58	ASP
23	U1	71	GLU
23	U1	77	LEU
23	U1	86	ASN
23	U1	88	ASP
23	U1	118	GLN
23	U1	128	GLU
23	U1	141	THR
23	U1	166	THR
23	U1	225	THR
23	U1	237	ILE
23	U1	268	SER
23	U1	274	GLN
23	U1	284	SER
23	U1	298	ILE
23	U1	343	ILE
23	U1	357	SER
23	U1	365	MET
23	U1	403	SER

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Mol	Chain	Res	Type
23	U1	422	LEU
23	U1	431	ILE
23	U2	13	THR
23	U2	17	ASP
23	U2	26	GLN
23	U2	58	ASP
23	U2	71	GLU
23	U2	77	LEU
23	U2	86	ASN
23	U2	88	ASP
23	U2	118	GLN
23	U2	128	GLU
23	U2	141	THR
23	U2	166	THR
23	U2	225	THR
23	U2	237	ILE
23	U2	268	SER
23	U2	274	GLN
23	U2	284	SER
23	U2	298	ILE
23	U2	343	ILE
23	U2	357	SER
23	U2	365	MET
23	U2	403	SER
23	U2	422	LEU
23	U2	431	ILE
23	U3	13	THR
23	U3	17	ASP
23	U3	26	GLN
23	U3	58	ASP
23	U3	71	GLU
23	U3	77	LEU
23	U3	86	ASN
23	U3	88	ASP
23	U3	118	GLN
23	U3	128	GLU
23	U3	141	THR
23	U3	166	THR
23	U3	225	THR
23	U3	237	ILE
23	U3	268	SER
23	U3	274	GLN

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Mol	Chain	Res	Type
23	U3	284	SER
23	U3	298	ILE
23	U3	343	ILE
23	U3	357	SER
23	U3	365	MET
23	U3	403	SER
23	U3	422	LEU
23	U3	431	ILE
23	U4	13	THR
23	U4	17	ASP
23	U4	26	GLN
23	U4	58	ASP
23	U4	71	GLU
23	U4	77	LEU
23	U4	86	ASN
23	U4	88	ASP
23	U4	118	GLN
23	U4	128	GLU
23	U4	141	THR
23	U4	166	THR
23	U4	225	THR
23	U4	237	ILE
23	U4	268	SER
23	U4	274	GLN
23	U4	284	SER
23	U4	298	ILE
23	U4	343	ILE
23	U4	357	SER
23	U4	365	MET
23	U4	403	SER
23	U4	422	LEU
23	U4	431	ILE
24	V1	160	LEU
24	V1	175	ARG
24	V1	195	ILE
24	V1	198	VAL
24	V1	201	GLU
24	V1	210	GLN
24	V1	214	SER
24	V1	216	LEU
24	V1	225	MET
24	V1	234	LEU

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Mol	Chain	Res	Type
24	V1	251	THR
24	V1	283	GLU
24	V1	292	ILE
24	V1	308	SER
24	V1	319	LEU
24	V1	328	SER
24	V1	336	LEU
24	V1	341	LEU
24	V1	346	THR
24	V1	349	CYS
24	V1	351	ILE
24	V1	355	ILE
24	V1	368	GLU
24	V1	370	LEU
24	V1	371	PHE
24	V1	400	LEU
24	V1	402	SER
24	V1	406	SER
24	V1	408	LEU
24	V1	412	SER
24	V1	419	ILE
24	V1	440	ARG
24	V1	443	THR
24	V1	456	GLN
24	V1	464	ARG
24	V1	465	VAL
24	V1	467	SER
24	V1	469	GLU
24	V1	508	ILE
24	V1	516	ILE
24	V1	522	SER
24	V1	524	ASN
24	V1	530	ARG
24	V1	531	LEU
24	V1	539	PHE
24	V1	547	ARG
24	V2	160	LEU
24	V2	175	ARG
24	V2	195	ILE
24	V2	198	VAL
24	V2	201	GLU
24	V2	210	GLN

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Mol	Chain	Res	Type
24	V2	214	SER
24	V2	216	LEU
24	V2	225	MET
24	V2	234	LEU
24	V2	251	THR
24	V2	283	GLU
24	V2	292	ILE
24	V2	308	SER
24	V2	319	LEU
24	V2	328	SER
24	V2	336	LEU
24	V2	341	LEU
24	V2	346	THR
24	V2	349	CYS
24	V2	351	ILE
24	V2	355	ILE
24	V2	368	GLU
24	V2	370	LEU
24	V2	371	PHE
24	V2	400	LEU
24	V2	402	SER
24	V2	406	SER
24	V2	408	LEU
24	V2	412	SER
24	V2	419	ILE
24	V2	440	ARG
24	V2	443	THR
24	V2	456	GLN
24	V2	464	ARG
24	V2	465	VAL
24	V2	467	SER
24	V2	469	GLU
24	V2	508	ILE
24	V2	516	ILE
24	V2	522	SER
24	V2	524	ASN
24	V2	530	ARG
24	V2	531	LEU
24	V2	539	PHE
24	V2	547	ARG
24	V3	160	LEU
24	V3	175	ARG

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Mol	Chain	Res	Type
24	V3	195	ILE
24	V3	198	VAL
24	V3	201	GLU
24	V3	210	GLN
24	V3	214	SER
24	V3	216	LEU
24	V3	225	MET
24	V3	234	LEU
24	V3	251	THR
24	V3	283	GLU
24	V3	292	ILE
24	V3	308	SER
24	V3	319	LEU
24	V3	328	SER
24	V3	336	LEU
24	V3	341	LEU
24	V3	346	THR
24	V3	349	CYS
24	V3	351	ILE
24	V3	355	ILE
24	V3	368	GLU
24	V3	370	LEU
24	V3	371	PHE
24	V3	400	LEU
24	V3	402	SER
24	V3	406	SER
24	V3	408	LEU
24	V3	412	SER
24	V3	419	ILE
24	V3	440	ARG
24	V3	443	THR
24	V3	456	GLN
24	V3	464	ARG
24	V3	465	VAL
24	V3	467	SER
24	V3	469	GLU
24	V3	508	ILE
24	V3	516	ILE
24	V3	522	SER
24	V3	524	ASN
24	V3	530	ARG
24	V3	531	LEU

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Mol	Chain	Res	Type
24	V3	539	PHE
24	V3	547	ARG
24	V4	160	LEU
24	V4	175	ARG
24	V4	195	ILE
24	V4	198	VAL
24	V4	201	GLU
24	V4	210	GLN
24	V4	214	SER
24	V4	216	LEU
24	V4	225	MET
24	V4	234	LEU
24	V4	251	THR
24	V4	283	GLU
24	V4	292	ILE
24	V4	308	SER
24	V4	319	LEU
24	V4	328	SER
24	V4	336	LEU
24	V4	341	LEU
24	V4	346	THR
24	V4	349	CYS
24	V4	351	ILE
24	V4	355	ILE
24	V4	368	GLU
24	V4	370	LEU
24	V4	371	PHE
24	V4	400	LEU
24	V4	402	SER
24	V4	406	SER
24	V4	408	LEU
24	V4	412	SER
24	V4	419	ILE
24	V4	440	ARG
24	V4	443	THR
24	V4	456	GLN
24	V4	464	ARG
24	V4	465	VAL
24	V4	467	SER
24	V4	469	GLU
24	V4	508	ILE
24	V4	516	ILE

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Mol	Chain	Res	Type
24	V4	522	SER
24	V4	524	ASN
24	V4	530	ARG
24	V4	531	LEU
24	V4	539	PHE
24	V4	547	ARG
25	W1	9	ASN
25	W1	22	LYS
25	W1	43	HIS
25	W1	46	ILE
25	W1	47	ASP
25	W1	139	ILE
25	W1	225	VAL
25	W1	227	GLN
25	W1	229	ARG
25	W1	275	ASP
25	W2	9	ASN
25	W2	22	LYS
25	W2	43	HIS
25	W2	46	ILE
25	W2	47	ASP
25	W2	139	ILE
25	W2	225	VAL
25	W2	227	GLN
25	W2	229	ARG
25	W2	275	ASP
25	W3	9	ASN
25	W3	22	LYS
25	W3	43	HIS
25	W3	46	ILE
25	W3	47	ASP
25	W3	139	ILE
25	W3	225	VAL
25	W3	227	GLN
25	W3	229	ARG
25	W3	275	ASP
25	W4	9	ASN
25	W4	22	LYS
25	W4	43	HIS
25	W4	46	ILE
25	W4	47	ASP
25	W4	139	ILE

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Mol	Chain	Res	Type
25	W4	225	VAL
25	W4	227	GLN
25	W4	229	ARG
25	W4	275	ASP
26	X1	51	MET
26	X1	77	GLN
26	X1	141	ASN
26	X1	143	THR
26	X1	239	VAL
26	X1	269	ASP
26	X1	280	VAL
26	X1	324	ILE
26	X1	384	VAL
26	X1	387	THR
26	X1	453	ASP
26	X1	488	LEU
26	X1	496	THR
26	X1	514	VAL
26	X1	525	ILE
26	X1	539	TYR
26	X2	51	MET
26	X2	77	GLN
26	X2	141	ASN
26	X2	143	THR
26	X2	239	VAL
26	X2	269	ASP
26	X2	280	VAL
26	X2	324	ILE
26	X2	384	VAL
26	X2	387	THR
26	X2	453	ASP
26	X2	488	LEU
26	X2	496	THR
26	X2	514	VAL
26	X2	525	ILE
26	X2	539	TYR
26	X3	51	MET
26	X3	77	GLN
26	X3	141	ASN
26	X3	143	THR
26	X3	239	VAL
26	X3	269	ASP

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Mol	Chain	Res	Type
26	X3	280	VAL
26	X3	324	ILE
26	X3	384	VAL
26	X3	387	THR
26	X3	453	ASP
26	X3	488	LEU
26	X3	496	THR
26	X3	514	VAL
26	X3	525	ILE
26	X3	539	TYR
26	X4	51	MET
26	X4	77	GLN
26	X4	141	ASN
26	X4	143	THR
26	X4	239	VAL
26	X4	269	ASP
26	X4	280	VAL
26	X4	324	ILE
26	X4	384	VAL
26	X4	387	THR
26	X4	453	ASP
26	X4	488	LEU
26	X4	496	THR
26	X4	514	VAL
26	X4	525	ILE
26	X4	539	TYR
27	Y1	61	ILE
27	Y1	80	THR
27	Y1	125	LEU
27	Y1	154	MET
27	Y1	168	ASP
27	Y1	183	LEU
27	Y1	226	ARG
27	Y1	301	ASP
27	Y1	313	ASN
27	Y1	314	LEU
27	Y1	334	THR
27	Y2	61	ILE
27	Y2	80	THR
27	Y2	125	LEU
27	Y2	154	MET
27	Y2	168	ASP

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Mol	Chain	Res	Type
27	Y2	183	LEU
27	Y2	226	ARG
27	Y2	301	ASP
27	Y2	313	ASN
27	Y2	314	LEU
27	Y2	334	THR
27	Y3	61	ILE
27	Y3	80	THR
27	Y3	125	LEU
27	Y3	154	MET
27	Y3	168	ASP
27	Y3	183	LEU
27	Y3	226	ARG
27	Y3	301	ASP
27	Y3	313	ASN
27	Y3	314	LEU
27	Y3	334	THR
27	Y4	61	ILE
27	Y4	80	THR
27	Y4	125	LEU
27	Y4	154	MET
27	Y4	168	ASP
27	Y4	183	LEU
27	Y4	226	ARG
27	Y4	301	ASP
27	Y4	313	ASN
27	Y4	314	LEU
27	Y4	334	THR
28	Z1	63	SER
28	Z1	127	SER
28	Z1	162	VAL
28	Z1	172	GLN
28	Z1	175	VAL
28	Z1	183	LEU
28	Z1	188	LYS
28	Z1	209	THR
28	Z1	259	MET
28	Z1	270	PHE
28	Z1	280	LEU
28	Z1	305	VAL
28	Z1	314	THR
28	Z1	328	ILE

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Mol	Chain	Res	Type
28	Z1	335	VAL
28	Z1	338	ARG
28	Z1	341	GLU
28	Z1	370	ASP
28	Z1	404	VAL
28	Z1	408	PHE
28	Z1	428	SER
28	Z1	590	GLN
28	Z1	605	ILE
28	Z1	638	VAL
28	Z1	644	THR
28	Z1	663	LEU
28	Z1	690	VAL
28	Z1	703	ASP
28	Z2	63	SER
28	Z2	127	SER
28	Z2	162	VAL
28	Z2	172	GLN
28	Z2	175	VAL
28	Z2	183	LEU
28	Z2	188	LYS
28	Z2	209	THR
28	Z2	259	MET
28	Z2	270	PHE
28	Z2	280	LEU
28	Z2	305	VAL
28	Z2	314	THR
28	Z2	328	ILE
28	Z2	335	VAL
28	Z2	338	ARG
28	Z2	341	GLU
28	Z2	370	ASP
28	Z2	404	VAL
28	Z2	408	PHE
28	Z2	428	SER
28	Z2	590	GLN
28	Z2	605	ILE
28	Z2	638	VAL
28	Z2	644	THR
28	Z2	663	LEU
28	Z2	690	VAL
28	Z2	703	ASP

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Mol	Chain	Res	Type
28	Z3	63	SER
28	Z3	127	SER
28	Z3	162	VAL
28	Z3	172	GLN
28	Z3	175	VAL
28	Z3	183	LEU
28	Z3	188	LYS
28	Z3	209	THR
28	Z3	259	MET
28	Z3	270	PHE
28	Z3	280	LEU
28	Z3	305	VAL
28	Z3	314	THR
28	Z3	328	ILE
28	Z3	335	VAL
28	Z3	338	ARG
28	Z3	341	GLU
28	Z3	370	ASP
28	Z3	404	VAL
28	Z3	408	PHE
28	Z3	428	SER
28	Z3	590	GLN
28	Z3	605	ILE
28	Z3	638	VAL
28	Z3	644	THR
28	Z3	663	LEU
28	Z3	690	VAL
28	Z3	703	ASP
28	Z4	63	SER
28	Z4	127	SER
28	Z4	162	VAL
28	Z4	172	GLN
28	Z4	175	VAL
28	Z4	183	LEU
28	Z4	188	LYS
28	Z4	209	THR
28	Z4	259	MET
28	Z4	270	PHE
28	Z4	280	LEU
28	Z4	305	VAL
28	Z4	314	THR
28	Z4	328	ILE

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Mol	Chain	Res	Type
28	Z4	335	VAL
28	Z4	338	ARG
28	Z4	341	GLU
28	Z4	370	ASP
28	Z4	404	VAL
28	Z4	408	PHE
28	Z4	428	SER
28	Z4	590	GLN
28	Z4	605	ILE
28	Z4	638	VAL
28	Z4	644	THR
28	Z4	663	LEU
28	Z4	690	VAL
28	Z4	703	ASP
29	a1	214[A]	THR
29	a1	214[B]	THR
29	a1	363[A]	LEU
29	a1	363[B]	LEU
29	a2	214[A]	THR
29	a2	214[B]	THR
29	a2	363[A]	LEU
29	a2	363[B]	LEU
29	a3	214[A]	THR
29	a3	214[B]	THR
29	a3	363[A]	LEU
29	a3	363[B]	LEU
29	a4	214[A]	THR
29	a4	214[B]	THR
29	a4	363[A]	LEU
29	a4	363[B]	LEU
30	b1	25	SER
30	b1	27	SER
30	b1	31	LEU
30	b1	46	SER
30	b1	50	THR
30	b1	54	THR
30	b1	68	LEU
30	b1	74	SER
30	b1	77	SER
30	b1	83	GLU
30	b1	127	LEU
30	b1	131	SER

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Mol	Chain	Res	Type
30	b1	185	SER
30	b1	216	LEU
30	b1	245	THR
30	b1	246	CYS
30	b1	258	VAL
30	b1	259	ARG
30	b1	266	SER
30	b1	304	LEU
30	b1	367	GLN
30	b2	25	SER
30	b2	27	SER
30	b2	31	LEU
30	b2	46	SER
30	b2	50	THR
30	b2	54	THR
30	b2	68	LEU
30	b2	74	SER
30	b2	77	SER
30	b2	83	GLU
30	b2	127	LEU
30	b2	131	SER
30	b2	185	SER
30	b2	216	LEU
30	b2	245	THR
30	b2	246	CYS
30	b2	258	VAL
30	b2	259	ARG
30	b2	266	SER
30	b2	304	LEU
30	b2	367	GLN
30	b3	25	SER
30	b3	27	SER
30	b3	31	LEU
30	b3	46	SER
30	b3	50	THR
30	b3	54	THR
30	b3	68	LEU
30	b3	74	SER
30	b3	77	SER
30	b3	83	GLU
30	b3	127	LEU
30	b3	131	SER

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Mol	Chain	Res	Type
30	b3	185	SER
30	b3	216	LEU
30	b3	245	THR
30	b3	246	CYS
30	b3	258	VAL
30	b3	259	ARG
30	b3	266	SER
30	b3	304	LEU
30	b3	367	GLN
30	b4	25	SER
30	b4	27	SER
30	b4	31	LEU
30	b4	46	SER
30	b4	50	THR
30	b4	54	THR
30	b4	68	LEU
30	b4	74	SER
30	b4	77	SER
30	b4	83	GLU
30	b4	127	LEU
30	b4	131	SER
30	b4	185	SER
30	b4	216	LEU
30	b4	245	THR
30	b4	246	CYS
30	b4	258	VAL
30	b4	259	ARG
30	b4	266	SER
30	b4	304	LEU
30	b4	367	GLN
32	g	68	LEU
32	g	72	LYS
32	g	79	LYS
32	g	84	VAL
32	g	118	SER
32	g	126	ARG
32	g	134	GLN
32	g	145	LEU
32	g	146	LYS
32	g	153	ILE
32	g	174	ILE
32	g	198	VAL

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Mol	Chain	Res	Type
32	g	246	VAL
32	g	280	GLU
32	g	297	SER
32	g	312	GLU
32	g	374	GLU
32	g	380	GLU
32	g	410	VAL
32	g	416	THR
32	g	421	SER
32	g	422	LEU
32	g	426	ARG
33	h	80	LEU
33	h	89	TYR
33	h	90	SER
33	h	102	GLN
33	h	113	ASN
33	h	142	THR
33	h	144	LYS
33	h	154	SER
33	h	166	LEU
33	h	173	GLU
33	h	194	LEU
33	h	199	ARG
33	h	203	LEU
33	h	209	ILE
33	h	215	ILE
33	h	270	MET
34	i	309	TYR
36	k1	359	GLU
36	k1	360	ASN
36	k1	363	ASN
36	k1	365	TRP
36	k1	370	GLU
36	k1	371	ASP
36	k1	374	LYS
36	k1	400	LEU
36	k1	409	LEU
36	k1	414	LEU
36	k1	422	LEU
36	k1	423	SER
36	k1	440	LYS
37	k2	475	ASP

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Mol	Chain	Res	Type
37	k2	478	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (612) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	276	GLN
1	A1	503	GLN
1	A1	554	GLN
1	A1	714	GLN
1	A1	923	GLN
1	A1	1072	ASN
1	A1	1106	HIS
1	A1	1192	GLN
1	A1	1194	HIS
1	A1	1199	GLN
1	A1	1233	GLN
2	A2	551	GLN
2	A2	636	ASN
2	A2	722	ASN
2	A2	861	GLN
2	A2	868	GLN
2	A2	897	ASN
2	A2	924	GLN
2	A2	961	GLN
2	A2	996	ASN
2	A2	1042	HIS
2	A2	1103	GLN
2	A2	1155	ASN
2	A2	1192	GLN
2	A2	1233	GLN
2	A2	1252	ASN
2	A2	1264	ASN
2	A2	1265	ASN
2	A2	1284	ASN
2	A2	1289	HIS
2	A2	1317	GLN
2	A2	1364	GLN
2	A2	1368	GLN
1	A3	276	GLN
1	A3	554	GLN
1	A3	714	GLN
1	A3	832	ASN

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Mol	Chain	Res	Type
1	A3	923	GLN
1	A3	1072	ASN
1	A3	1106	HIS
1	A3	1116	HIS
1	A3	1188	ASN
1	A3	1236	GLN
2	A4	173	ASN
2	A4	636	ASN
2	A4	673	HIS
2	A4	750	ASN
2	A4	808	GLN
2	A4	826	ASN
2	A4	859	GLN
2	A4	861	GLN
2	A4	924	GLN
2	A4	996	ASN
2	A4	1042	HIS
2	A4	1092	ASN
2	A4	1155	ASN
2	A4	1192	GLN
2	A4	1199	GLN
2	A4	1233	GLN
2	A4	1252	ASN
2	A4	1264	ASN
2	A4	1265	ASN
2	A4	1284	ASN
2	A4	1289	HIS
2	A4	1317	GLN
2	A4	1364	GLN
2	A4	1368	GLN
3	A5	127	HIS
3	A5	129	ASN
3	A5	173	ASN
3	A5	276	GLN
3	A5	503	GLN
3	A5	554	GLN
3	A5	568	HIS
3	A5	714	GLN
3	A5	924	GLN
3	A5	1027	HIS
3	A5	1033	GLN
3	A5	1042	HIS

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Mol	Chain	Res	Type
3	A5	1101	GLN
3	A5	1155	ASN
3	A5	1192	GLN
3	A5	1233	GLN
3	A5	1265	ASN
3	A5	1364	GLN
3	A6	127	HIS
3	A6	129	ASN
3	A6	276	GLN
3	A6	377	ASN
3	A6	393	HIS
3	A6	430	GLN
3	A6	483	HIS
3	A6	523	ASN
3	A6	714	GLN
3	A6	924	GLN
3	A6	961	GLN
3	A6	996	ASN
3	A6	1042	HIS
3	A6	1088	ASN
3	A6	1101	GLN
3	A6	1155	ASN
3	A6	1192	GLN
3	A6	1233	GLN
3	A6	1265	ASN
3	A6	1364	GLN
6	D1	193	ASN
6	D1	200	HIS
6	D1	316	HIS
6	D1	339	ASN
6	D1	353	GLN
6	D1	357	ASN
6	D1	419	ASN
6	D1	549	GLN
6	D1	634	ASN
6	D2	193	ASN
6	D2	200	HIS
6	D2	316	HIS
6	D2	339	ASN
6	D2	419	ASN
6	D2	549	GLN
6	D2	819	ASN

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Mol	Chain	Res	Type
6	D3	200	HIS
6	D3	316	HIS
6	D3	339	ASN
6	D3	353	GLN
6	D3	419	ASN
6	D3	724	GLN
6	D3	736	ASN
6	D3	819	ASN
6	D4	193	ASN
6	D4	200	HIS
6	D4	316	HIS
6	D4	339	ASN
6	D4	353	GLN
6	D4	419	ASN
6	D4	549	GLN
6	D4	819	ASN
6	D5	193	ASN
6	D5	200	HIS
6	D5	316	HIS
6	D5	339	ASN
6	D5	381	ASN
6	D5	419	ASN
6	D5	549	GLN
6	D5	788	GLN
6	D5	819	ASN
6	D6	193	ASN
6	D6	200	HIS
6	D6	244	ASN
6	D6	316	HIS
6	D6	339	ASN
6	D6	419	ASN
6	D6	549	GLN
6	D6	819	ASN
6	D7	200	HIS
6	D7	316	HIS
6	D7	339	ASN
6	D7	419	ASN
6	D7	511	GLN
6	D7	515	HIS
6	D7	819	ASN
8	F1	125	HIS
8	F1	361	HIS

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Mol	Chain	Res	Type
8	F1	416	GLN
8	F1	972	HIS
8	F1	1262	HIS
8	F1	1294	ASN
8	F1	1441	GLN
8	F1	1752	HIS
8	F2	125	HIS
8	F2	361	HIS
8	F2	416	GLN
8	F2	704	HIS
8	F2	776	HIS
8	F2	972	HIS
8	F2	1049	GLN
8	F2	1294	ASN
8	F2	1441	GLN
8	F2	1752	HIS
9	G1	290	GLN
9	G1	296	GLN
9	G2	290	GLN
9	G2	296	GLN
9	G2	297	HIS
11	I1	81	ASN
11	I1	113	GLN
11	I1	225	GLN
11	I1	261	GLN
11	I1	393	GLN
11	I1	457	ASN
11	I1	878	GLN
11	I1	982	GLN
11	I1	1014	ASN
11	I1	1068	HIS
11	I1	1072	ASN
11	I1	1182	GLN
11	I1	1191	GLN
11	I1	1635	HIS
11	I1	1660	GLN
11	I1	1667	GLN
11	I2	81	ASN
11	I2	113	GLN
11	I2	261	GLN
11	I2	393	GLN
11	I2	457	ASN

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Mol	Chain	Res	Type
11	I2	498	GLN
11	I2	548	GLN
11	I2	878	GLN
11	I2	887	GLN
11	I2	892	HIS
11	I2	982	GLN
11	I2	1014	ASN
11	I2	1041	GLN
11	I2	1068	HIS
11	I2	1182	GLN
11	I2	1191	GLN
11	I2	1304	ASN
11	I2	1635	HIS
11	I2	1660	GLN
11	I2	1667	GLN
11	I3	81	ASN
11	I3	113	GLN
11	I3	225	GLN
11	I3	261	GLN
11	I3	393	GLN
11	I3	457	ASN
11	I3	498	GLN
11	I3	914	ASN
11	I3	982	GLN
11	I3	1182	GLN
11	I3	1191	GLN
11	I3	1304	ASN
11	I3	1660	GLN
11	I4	81	ASN
11	I4	113	GLN
11	I4	225	GLN
11	I4	261	GLN
11	I4	393	GLN
11	I4	457	ASN
11	I4	498	GLN
11	I4	914	ASN
11	I4	982	GLN
11	I4	1046	HIS
11	I4	1182	GLN
11	I4	1635	HIS
11	I4	1660	GLN
11	I5	29	GLN

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Mol	Chain	Res	Type
11	I5	81	ASN
11	I5	113	GLN
11	I5	393	GLN
11	I5	498	GLN
11	I5	548	GLN
11	I5	914	ASN
11	I5	982	GLN
11	I5	1182	GLN
11	I5	1191	GLN
11	I5	1660	GLN
15	M1	502	ASN
15	M1	584	GLN
15	M1	618	GLN
15	M1	631	GLN
15	M2	502	ASN
15	M3	502	ASN
15	M3	584	GLN
15	M4	502	ASN
16	N1	276	HIS
16	N1	298	HIS
16	N2	276	HIS
16	N2	298	HIS
16	N3	276	HIS
16	N3	298	HIS
16	N4	276	HIS
16	N4	298	HIS
17	O1	133	ASN
17	O1	152	GLN
17	O1	293	GLN
17	O2	133	ASN
17	O2	152	GLN
17	O2	263	GLN
17	O2	266	GLN
17	O2	293	GLN
17	O3	133	ASN
17	O3	152	GLN
17	O3	293	GLN
17	O4	133	ASN
17	O4	152	GLN
17	O4	265	ASN
18	P1	234	GLN
18	P1	323	GLN

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Mol	Chain	Res	Type
18	P2	234	GLN
18	P2	323	GLN
18	P3	234	GLN
18	P3	323	GLN
18	P3	326	GLN
18	P4	234	GLN
18	P4	323	GLN
19	Q1	192	GLN
19	Q3	192	GLN
20	R1	150	ASN
21	S1	150	HIS
21	S1	319	ASN
21	S1	339	ASN
21	S1	944	GLN
21	S1	958	ASN
21	S1	1017	GLN
21	S1	1155	GLN
21	S2	150	HIS
21	S2	319	ASN
21	S2	339	ASN
21	S2	944	GLN
21	S2	958	ASN
21	S2	1017	GLN
21	S2	1127	GLN
21	S3	150	HIS
21	S3	319	ASN
21	S3	339	ASN
21	S3	944	GLN
21	S3	958	ASN
21	S3	1017	GLN
21	S3	1155	GLN
21	S4	150	HIS
21	S4	319	ASN
21	S4	339	ASN
21	S4	944	GLN
21	S4	958	ASN
21	S4	1017	GLN
21	S4	1127	GLN
21	S4	1155	GLN
22	T1	684	GLN
22	T1	862	HIS
22	T1	870	GLN

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Mol	Chain	Res	Type
22	T1	886	HIS
22	T1	902	GLN
22	T1	914	GLN
22	T2	684	GLN
22	T2	862	HIS
22	T2	870	GLN
22	T2	886	HIS
22	T2	902	GLN
22	T2	914	GLN
22	T3	684	GLN
22	T3	862	HIS
22	T3	870	GLN
22	T3	886	HIS
22	T3	902	GLN
22	T3	914	GLN
22	T4	684	GLN
22	T4	862	HIS
22	T4	870	GLN
22	T4	886	HIS
22	T4	902	GLN
22	T4	914	GLN
23	U1	360	HIS
23	U1	423	GLN
23	U2	291	ASN
23	U2	360	HIS
23	U2	400	ASN
23	U2	423	GLN
23	U2	428	ASN
23	U2	437	ASN
23	U3	274	GLN
23	U3	360	HIS
23	U3	423	GLN
23	U4	291	ASN
23	U4	360	HIS
23	U4	423	GLN
24	V1	210	GLN
24	V1	287	ASN
24	V1	329	ASN
24	V1	354	ASN
24	V1	405	GLN
24	V1	461	ASN
24	V1	488	HIS

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Mol	Chain	Res	Type
24	V1	490	HIS
24	V1	536	GLN
24	V1	542	GLN
24	V2	210	GLN
24	V2	255	GLN
24	V2	329	ASN
24	V2	354	ASN
24	V2	405	GLN
24	V2	461	ASN
24	V2	488	HIS
24	V2	490	HIS
24	V2	536	GLN
24	V2	542	GLN
24	V3	210	GLN
24	V3	329	ASN
24	V3	354	ASN
24	V3	405	GLN
24	V3	461	ASN
24	V3	488	HIS
24	V3	490	HIS
24	V3	536	GLN
24	V3	542	GLN
24	V4	210	GLN
24	V4	329	ASN
24	V4	354	ASN
24	V4	405	GLN
24	V4	461	ASN
24	V4	488	HIS
24	V4	490	HIS
24	V4	536	GLN
24	V4	542	GLN
25	W1	9	ASN
25	W1	43	HIS
25	W1	63	HIS
25	W1	91	GLN
25	W1	103	ASN
25	W1	188	ASN
25	W2	9	ASN
25	W2	43	HIS
25	W2	63	HIS
25	W2	91	GLN
25	W2	103	ASN

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Mol	Chain	Res	Type
25	W2	188	ASN
25	W3	9	ASN
25	W3	43	HIS
25	W3	63	HIS
25	W3	91	GLN
25	W3	103	ASN
25	W3	188	ASN
25	W4	9	ASN
25	W4	43	HIS
25	W4	63	HIS
25	W4	91	GLN
25	W4	103	ASN
25	W4	188	ASN
25	W4	192	GLN
26	X1	170	ASN
26	X1	260	GLN
26	X1	308	ASN
26	X1	315	GLN
26	X1	342	ASN
26	X1	403	HIS
26	X1	467	ASN
26	X2	170	ASN
26	X2	260	GLN
26	X2	308	ASN
26	X2	342	ASN
26	X2	403	HIS
26	X2	467	ASN
26	X2	510	HIS
26	X3	170	ASN
26	X3	260	GLN
26	X3	308	ASN
26	X3	342	ASN
26	X3	403	HIS
26	X3	467	ASN
26	X3	510	HIS
26	X4	170	ASN
26	X4	260	GLN
26	X4	308	ASN
26	X4	315	GLN
26	X4	342	ASN
26	X4	403	HIS
26	X4	467	ASN

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Mol	Chain	Res	Type
26	X4	510	HIS
27	Y1	99	ASN
27	Y2	99	ASN
27	Y3	90	GLN
27	Y3	99	ASN
27	Y4	99	ASN
28	Z1	10	ASN
28	Z1	116	GLN
28	Z1	151	HIS
28	Z1	154	ASN
28	Z1	255	GLN
28	Z1	295	ASN
28	Z1	393	HIS
28	Z1	410	ASN
28	Z1	560	ASN
28	Z1	575	ASN
28	Z1	584	ASN
28	Z1	588	ASN
28	Z2	10	ASN
28	Z2	116	GLN
28	Z2	151	HIS
28	Z2	154	ASN
28	Z2	255	GLN
28	Z2	295	ASN
28	Z2	393	HIS
28	Z2	410	ASN
28	Z2	560	ASN
28	Z2	575	ASN
28	Z2	584	ASN
28	Z2	588	ASN
28	Z3	10	ASN
28	Z3	116	GLN
28	Z3	151	HIS
28	Z3	154	ASN
28	Z3	239	GLN
28	Z3	255	GLN
28	Z3	295	ASN
28	Z3	393	HIS
28	Z3	410	ASN
28	Z3	560	ASN
28	Z3	575	ASN
28	Z3	584	ASN

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Mol	Chain	Res	Type
28	Z3	588	ASN
28	Z4	10	ASN
28	Z4	116	GLN
28	Z4	154	ASN
28	Z4	239	GLN
28	Z4	255	GLN
28	Z4	284	ASN
28	Z4	295	ASN
28	Z4	393	HIS
28	Z4	410	ASN
28	Z4	560	ASN
28	Z4	575	ASN
28	Z4	584	ASN
28	Z4	588	ASN
29	a1	66	GLN
29	a1	105	ASN
29	a1	114	GLN
29	a1	121	HIS
29	a1	229	GLN
29	a2	27	GLN
29	a2	66	GLN
29	a2	105	ASN
29	a2	114	GLN
29	a2	121	HIS
29	a2	229	GLN
29	a3	66	GLN
29	a3	105	ASN
29	a3	114	GLN
29	a3	121	HIS
29	a3	229	GLN
29	a4	66	GLN
29	a4	105	ASN
29	a4	114	GLN
29	a4	121	HIS
29	a4	229	GLN
30	b1	6	ASN
30	b1	9	GLN
30	b1	24	GLN
30	b1	135	ASN
30	b1	138	ASN
30	b1	150	ASN
30	b1	244	ASN

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Mol	Chain	Res	Type
30	b1	350	ASN
30	b2	6	ASN
30	b2	7	GLN
30	b2	24	GLN
30	b2	135	ASN
30	b2	138	ASN
30	b2	150	ASN
30	b2	244	ASN
30	b2	350	ASN
30	b3	6	ASN
30	b3	7	GLN
30	b3	24	GLN
30	b3	135	ASN
30	b3	138	ASN
30	b3	150	ASN
30	b3	350	ASN
30	b4	6	ASN
30	b4	9	GLN
30	b4	24	GLN
30	b4	135	ASN
30	b4	138	ASN
30	b4	150	ASN
30	b4	350	ASN
31	c1	24	GLN
31	c1	303	HIS
31	c1	360	ASN
31	c1	540	HIS
31	c1	632	HIS
31	c2	24	GLN
31	c2	303	HIS
31	c2	360	ASN
31	c2	463	HIS
31	c2	466	HIS
31	c2	498	GLN
31	c2	540	HIS
31	c2	565	GLN
31	c3	24	GLN
31	c3	63	HIS
31	c3	303	HIS
31	c3	360	ASN
31	c3	466	HIS
31	c3	498	GLN

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Mol	Chain	Res	Type
31	c3	540	HIS
31	c4	24	GLN
31	c4	303	HIS
31	c4	360	ASN
31	c4	462	HIS
31	c4	466	HIS
31	c4	498	GLN
31	c4	506	HIS
31	c5	24	GLN
31	c5	303	HIS
31	c5	360	ASN
31	c5	463	HIS
31	c5	498	GLN
31	c5	540	HIS
32	g	78	ASN
32	g	97	HIS
32	g	142	HIS
32	g	206	GLN
32	g	218	GLN
32	g	302	GLN
32	g	337	ASN
33	h	75	ASN
33	h	81	GLN
34	i	120	GLN
34	i	154	ASN
34	i	175	HIS
34	i	322	ASN
34	i	445	GLN
37	k2	450	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
40	m1	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	m1	14:UNK	C	18:UNK	N	8.65

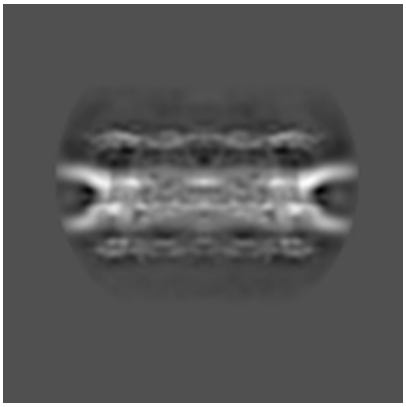
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11967. These allow visual inspection of the internal detail of the map and identification of artifacts.

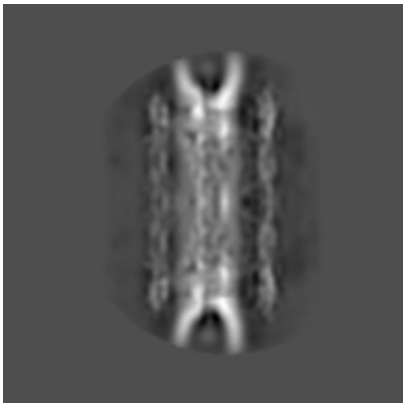
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

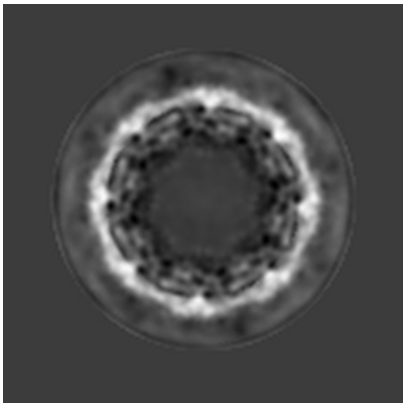
6.1.1 Primary map



X



Y



Z

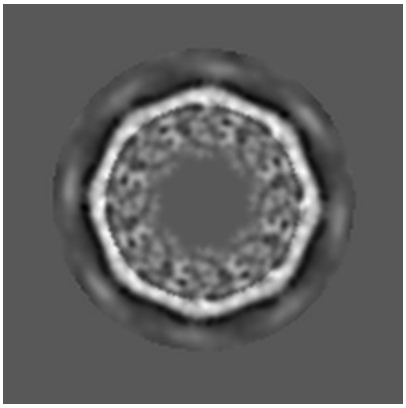
The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map

X Index: 72

Y Index: 72

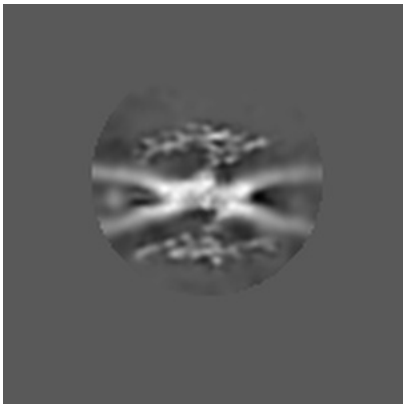


Z Index: 72

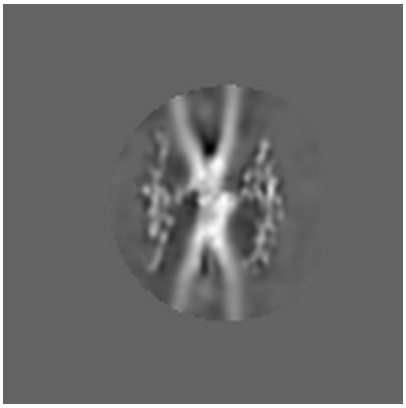
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

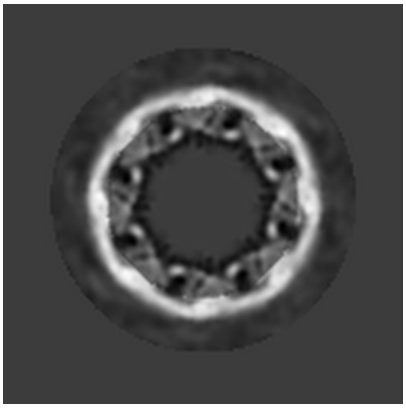
6.3.1 Primary map



X Index: 36



Y Index: 108

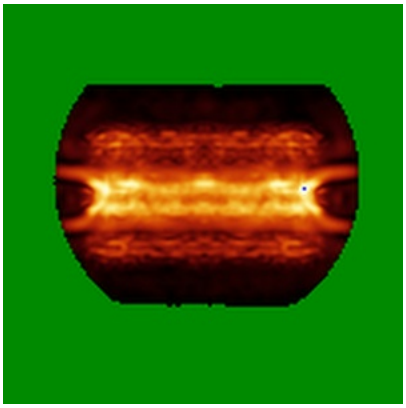


Z Index: 78

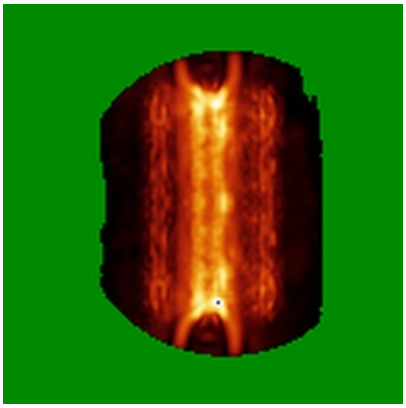
The images above show the largest variance slices of the map in three orthogonal directions.

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

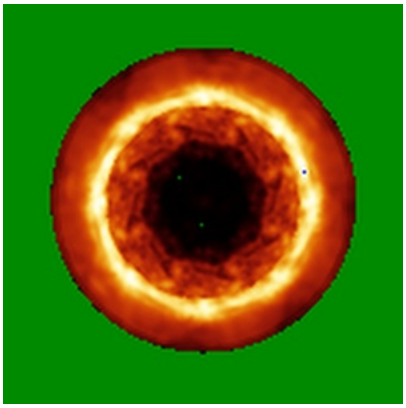
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

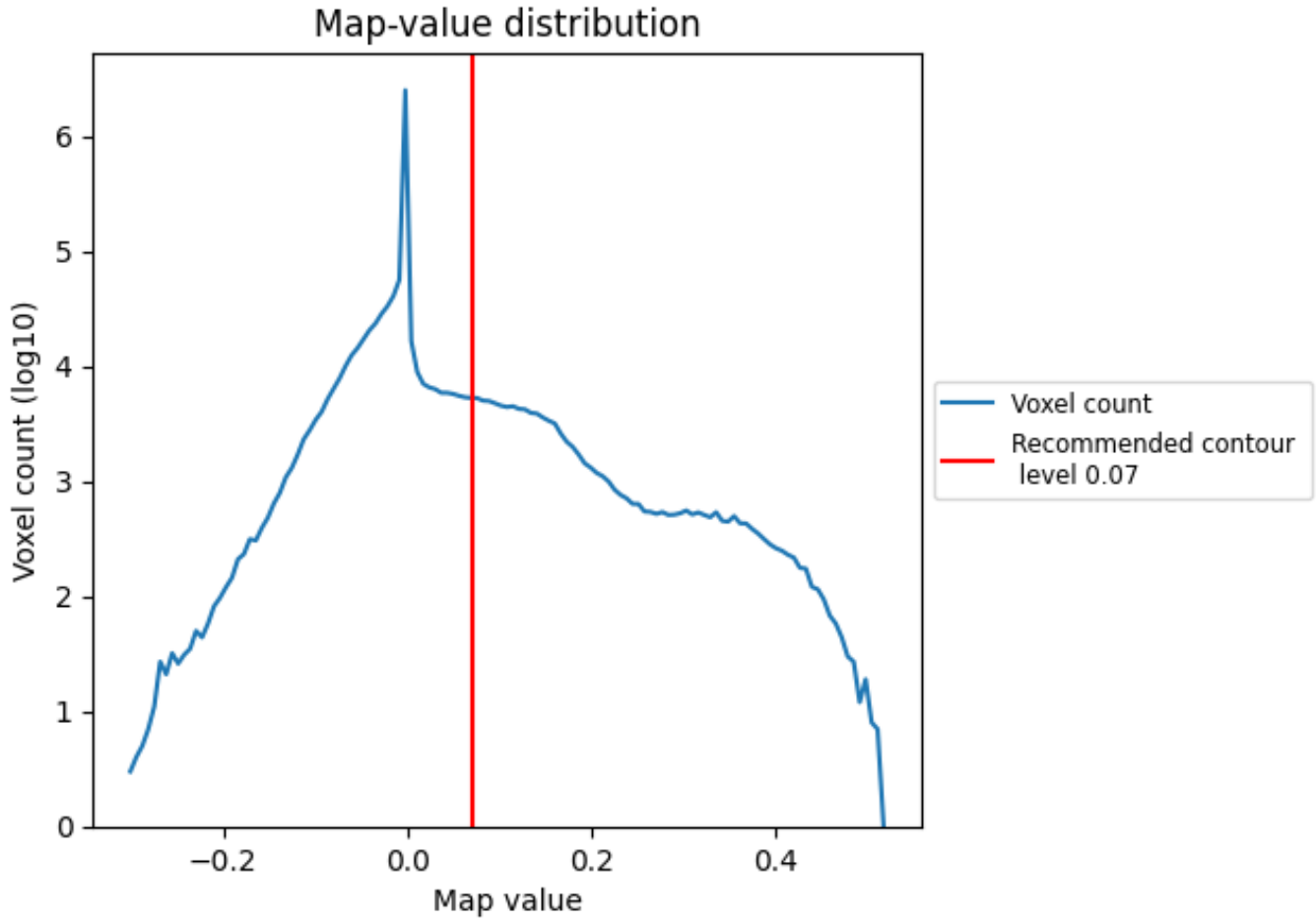
6.6 Mask visualisation (i)

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

7 Map analysis

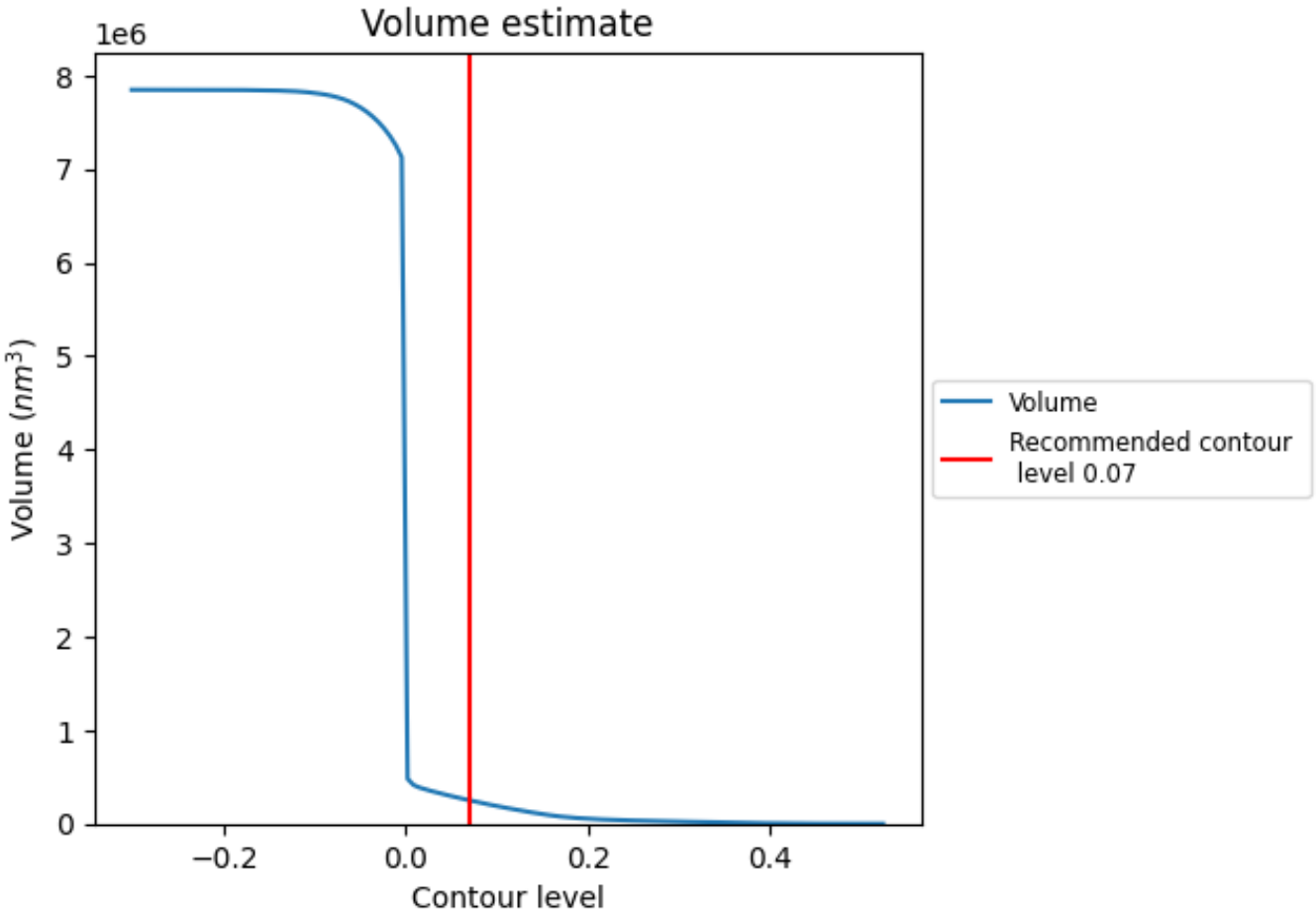
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

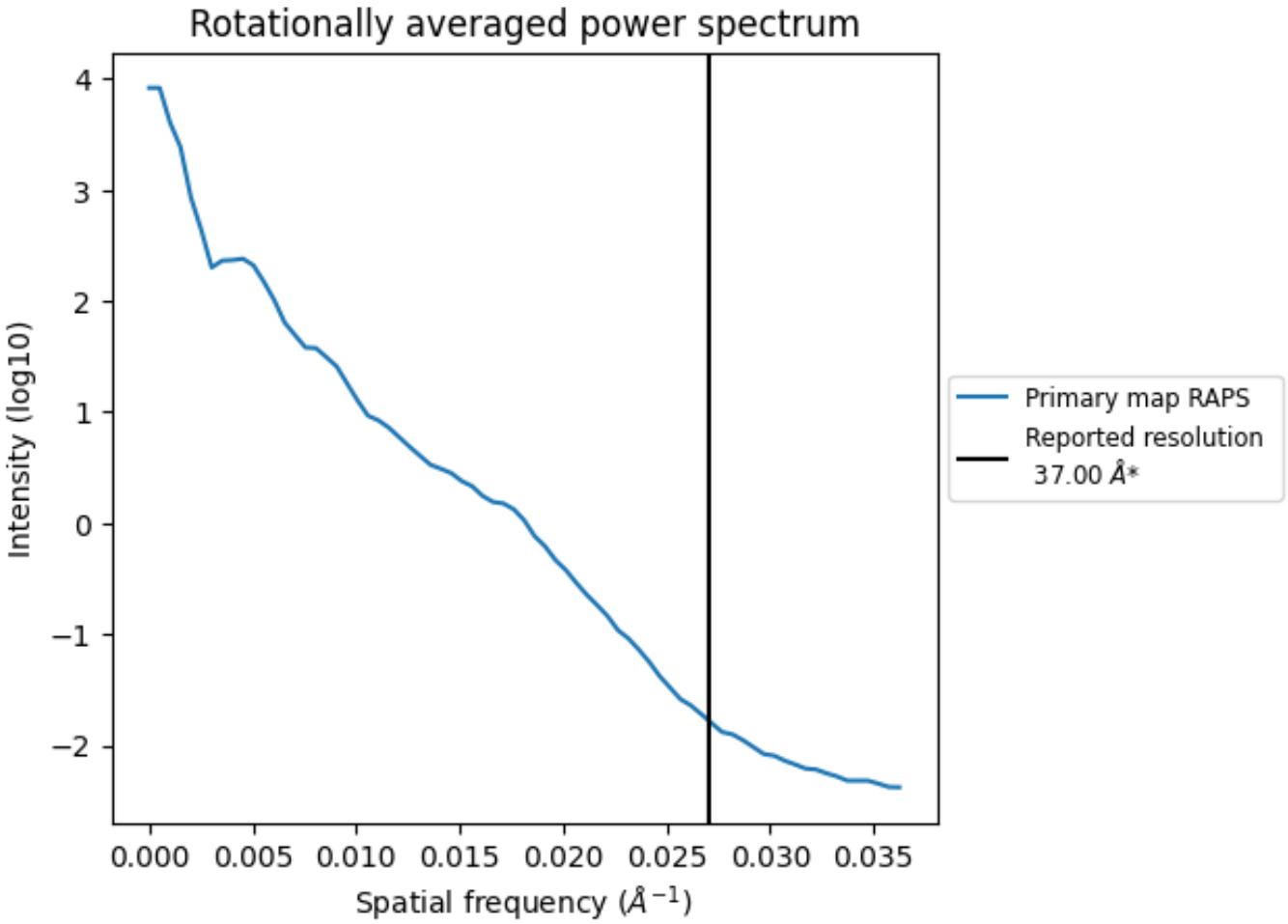
7.2 Volume estimate



The volume at the recommended contour level is 250411 nm^3; this corresponds to an approximate mass of 226203 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.027 Å^{-1}

8 Fourier-Shell correlation

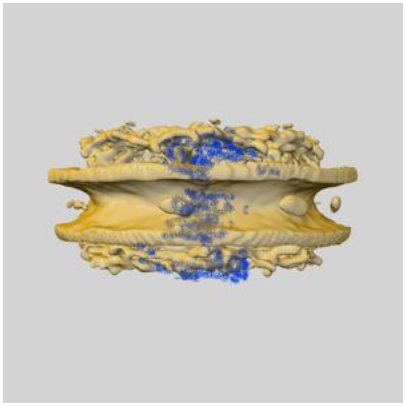
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

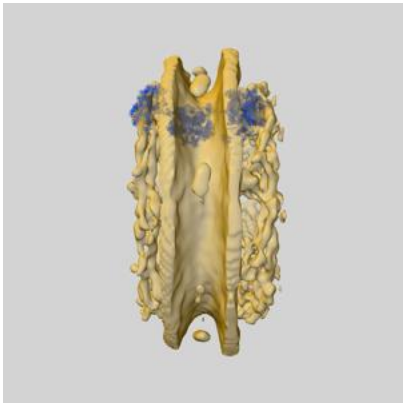
This section contains information regarding the fit between EMDB map EMD-11967 and PDB model 7TBM. Per-residue inclusion information can be found in section 3 on page 20.

9.1 Map-model overlays

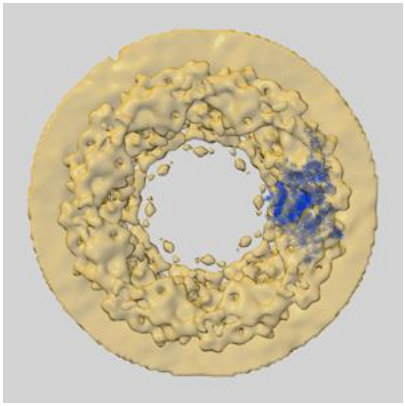
9.1.1 Map-model overlay



X

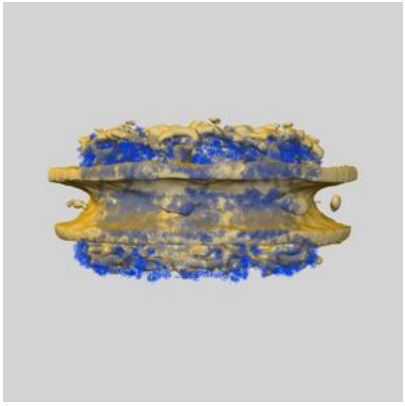


Y

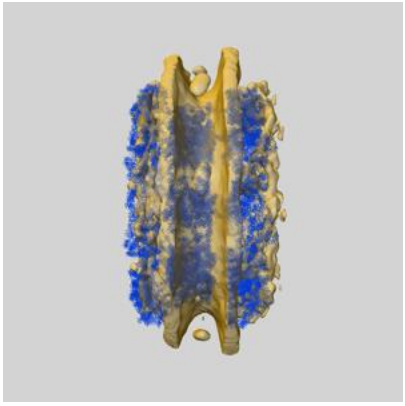


Z

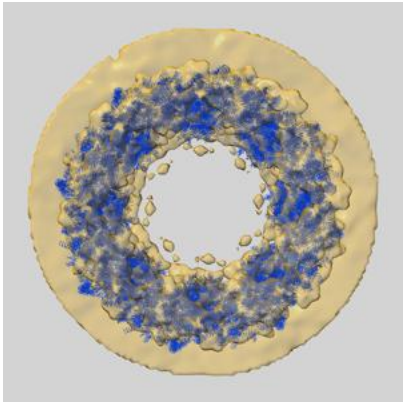
9.1.2 Map-model assembly overlay



X



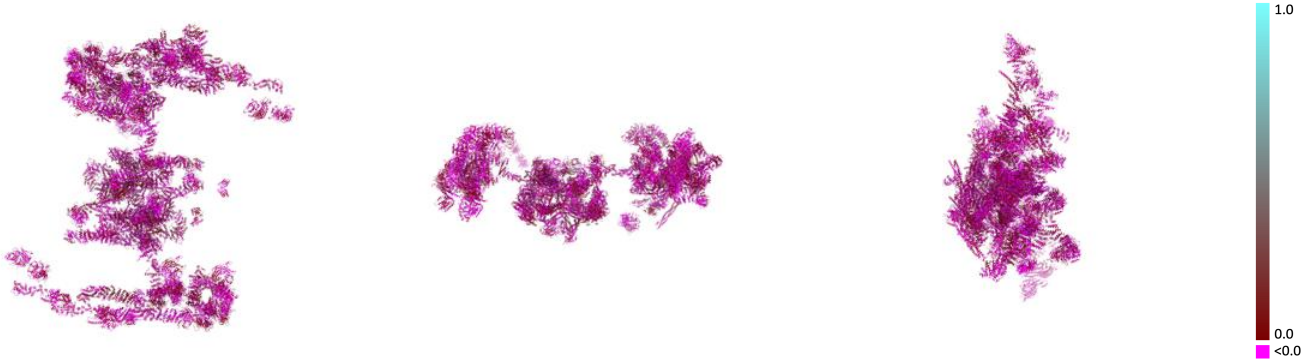
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.07 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

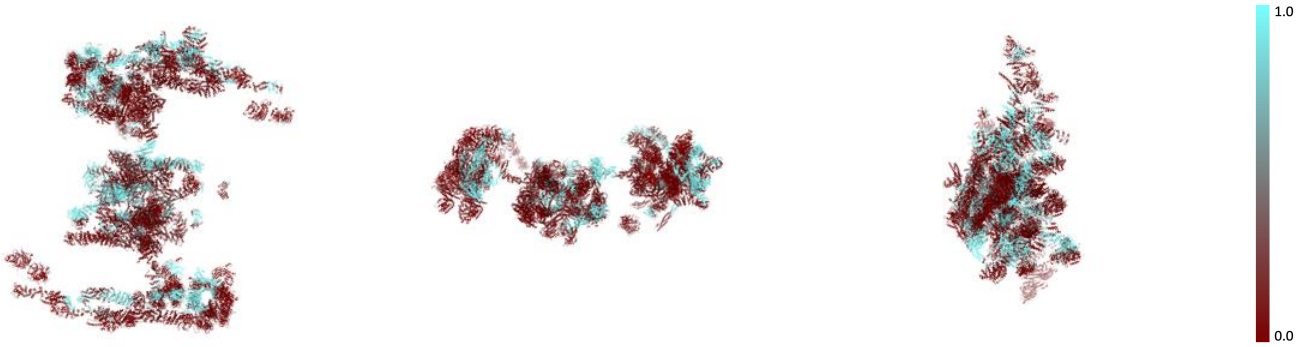
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

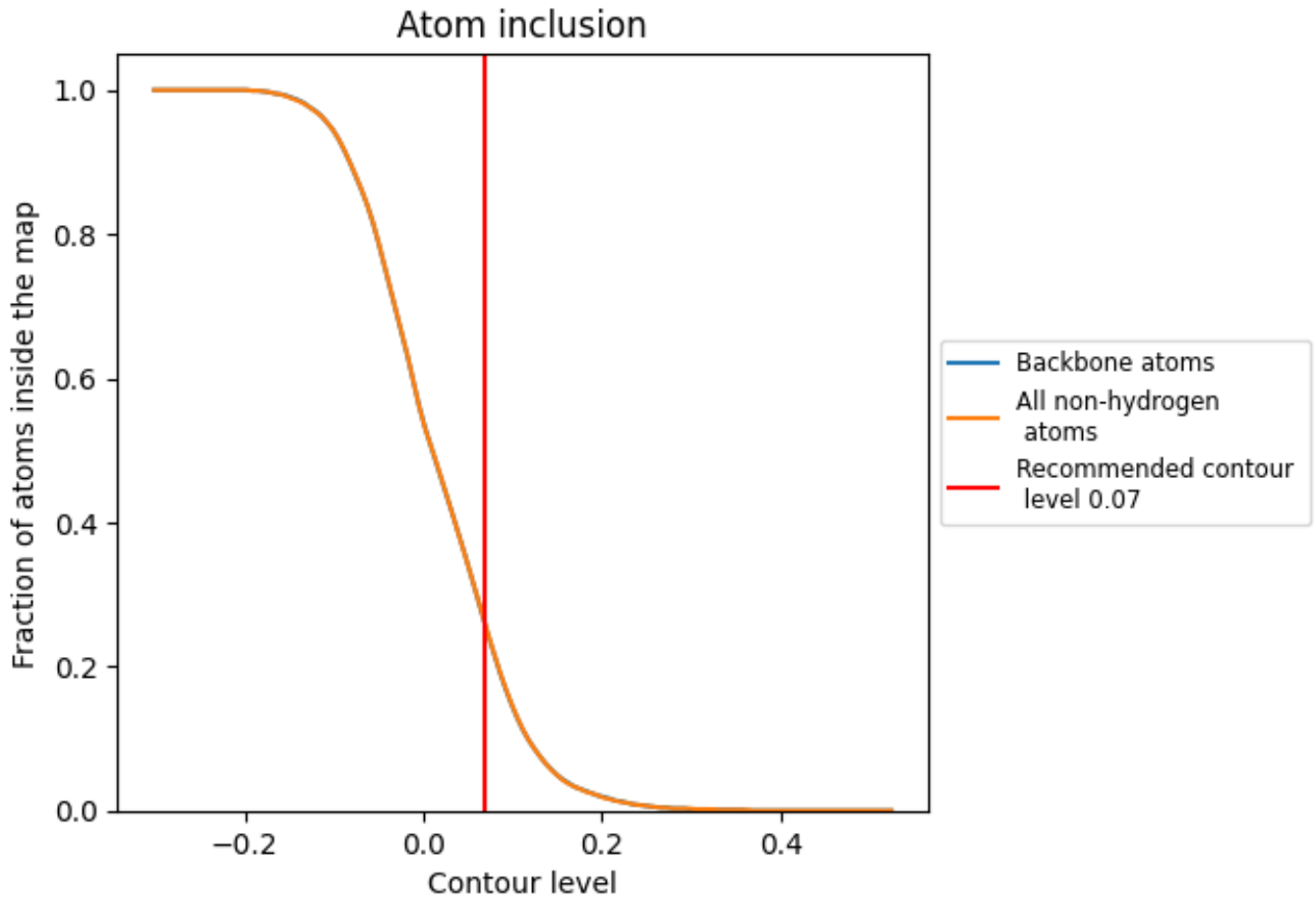
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.07).

9.4 Atom inclusion (i)



At the recommended contour level, 26% of all backbone atoms, 26% 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 (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.2560	-0.0040
A1	0.6040	0.0060
A2	0.4360	-0.0060
A3	0.1580	-0.0070
A4	0.0940	-0.0080
A5	0.4660	-0.0130
A6	0.1090	0.0020
B1	0.2110	-0.0340
B2	1.0000	0.0600
B3	0.0000	-0.0480
B4	0.0000	-0.0250
B5	0.9820	0.0030
B6	0.0000	0.0230
C1	1.0000	0.0130
C2	0.7230	-0.0560
C3	0.0000	0.0310
C4	0.8260	0.0830
C5	0.7350	0.0160
C6	0.0000	-0.0060
D1	0.3740	0.0130
D2	0.4240	0.0040
D3	0.2120	-0.0180
D4	0.0000	0.0010
D5	0.5660	0.0120
D6	0.1530	-0.0060
D7	0.0090	-0.0410
E1	0.7500	0.0310
E2	0.7000	0.0010
E3	0.0000	-0.0090
E4	0.0000	0.0130
E5	0.8170	0.0230
E6	0.0000	-0.0450
E7	0.0000	-0.0300
F1	0.2340	-0.0000
F2	0.0390	-0.0200

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Chain	Atom inclusion	Q-score
G1	0.1100	-0.0010
G2	0.0000	-0.0520
H1	0.0640	-0.0260
H2	0.0000	-0.0020
I1	0.4410	0.0030
I2	0.1600	0.0050
I3	0.2320	-0.0020
I4	0.6060	0.0080
I5	0.0000	-0.0090
J1	0.3230	-0.0120
J2	0.3210	-0.0080
J3	0.5030	0.0220
J4	0.2210	-0.0060
J5	0.0000	0.0420
K1	0.0000	-0.0460
K2	0.0000	-0.0150
K3	0.0420	-0.0040
K4	1.0000	0.0160
K5	0.0000	-0.0190
L1	1.0000	-0.0560
L2	0.0000	-0.0040
L3	0.0000	0.0010
L4	1.0000	0.0020
L5	0.0000	-0.0120
M1	0.5520	0.0270
M2	0.3890	0.0090
M3	0.1730	-0.0070
M4	0.0970	-0.0020
N1	0.5490	0.0300
N2	0.4510	-0.0000
N3	0.3240	-0.0000
N4	0.2380	0.0000
O1	0.4370	0.0200
O2	0.3110	-0.0040
O3	0.1660	-0.0060
O4	0.0170	-0.0250
P1	0.2000	-0.0060
P2	0.0030	-0.0140
P3	0.0000	-0.0070
P4	0.0000	-0.0010
Q1	0.0340	-0.0260
Q2	0.3240	-0.0100

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Chain	Atom inclusion	Q-score
Q3	0.4780	0.0110
Q4	0.7610	0.0450
R1	0.2410	-0.0060
R2	0.4420	-0.0130
R3	0.4120	0.0460
R4	0.3860	0.0200
S1	0.1020	-0.0130
S2	0.2030	-0.0010
S3	0.1140	-0.0060
S4	0.0030	-0.0200
T1	0.5170	0.0010
T2	0.2740	0.0140
T3	0.2010	-0.0070
T4	0.2240	-0.0020
U1	0.3660	0.0010
U2	0.0000	-0.0210
U3	0.0000	-0.0270
U4	0.3640	0.0110
V1	0.5810	0.0200
V2	0.0000	-0.0260
V3	0.0190	-0.0340
V4	0.6610	0.0360
W1	0.3290	-0.0120
W2	0.0000	-0.0310
W3	0.0890	-0.0130
W4	0.0650	-0.0150
X1	0.3160	-0.0060
X2	0.0030	-0.0210
X3	0.0190	-0.0090
X4	0.0070	-0.0370
Y1	0.9160	0.0300
Y2	0.1020	0.0060
Y3	0.0000	0.0010
Y4	0.0000	0.0210
Z1	0.5980	0.0080
Z2	0.0750	-0.0150
Z3	0.1360	-0.0090
Z4	0.4500	0.0080
a1	0.2030	-0.0150
a2	0.7300	0.0350
a3	0.0000	-0.0130
a4	0.0020	-0.0330

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Chain	Atom inclusion	Q-score
b1	0.3270	0.0130
b2	0.0480	-0.0230
b3	0.0000	-0.0360
b4	0.6490	0.0080
c1	0.5430	0.0160
c2	0.1450	-0.0160
c3	0.5340	-0.0050
c4	0.3000	0.0130
c5	0.4420	0.0000
g	0.0020	-0.0240
h	0.0000	-0.0410
i	0.4800	0.0200
j	0.0750	0.0010
k1	0.4190	-0.0100
k2	0.6340	-0.0110
l1	0.4260	-0.0100
l2	0.2310	-0.0210
m1	0.4930	0.0010
m2	0.0000	-0.0370