



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 06:48 AM UTC

PDB ID : 7TBJ / pdb_00007tbj
EMDB ID : EMD-14322
Title : Composite structure of the human nuclear pore complex (NPC) symmetric core generated with a 12Å cryo-ET map of the purified HeLa cell NPC
Authors : Petrovic, S.; Samanta, D.; Perriches, T.; Bley, C.J.; Thierbach, K.; Brown, B.; Nie, S.; Mobbs, G.W.; Stevens, T.A.; Liu, X.; Tomaleri, G.P.; Schaus, L.; Hoelz, A.
Deposited on : 2021-12-22
Resolution : 23.00 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 ⓘ symbol.

The types of validation reports are described at

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

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

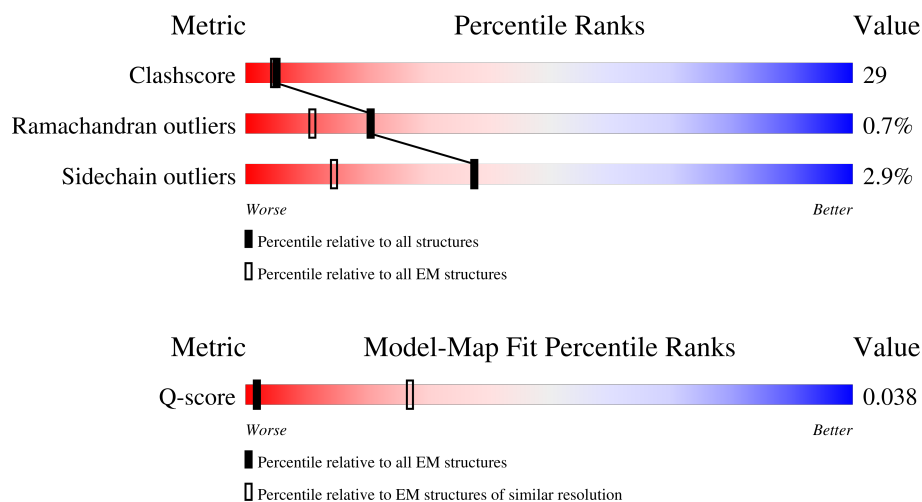
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
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 23.00 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	93 (11.50 - 12.50)

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

Mol	Chain	Length	Quality of chain
1	A1	1316	27% 86% 7% 6%
1	A3	1316	30% 87% 7% 6%
2	A2	1328	58% 73% 20% . .
2	A4	1328	53% 72% 21% . .

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Mol	Chain	Length	Quality of chain
3	A5	1330	
3	A6	1330	
4	B1	14	
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	

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Mol	Chain	Length	Quality of chain
7	E5	8	75% 75% 25%
7	E6	8	25% 75% 25%
7	E7	8	100% 75% 25%
8	F1	1858	26% 81% 7% 12%
8	F2	1858	42% 82% 6% 12%
9	G1	53	40% 68% 32%
9	G2	53	55% 85% 15%
10	H1	13	62% 100%
10	H2	13	69% 100%
11	I1	1756	30% 67% 21% 12%
11	I2	1756	31% 67% 21% 12%
11	I3	1756	21% 78% 9% 12%
11	I4	1756	39% 79% 8% 12%
11	I5	1756	25% 78% 10% 12%
12	J1	63	46% 71% 29%
12	J2	63	35% 71% 29%
12	J3	63	43% 79% 21%
12	J4	63	49% 79% 21%
12	J5	63	29% 79% 21%
13	K1	9	89% 100%
13	K2	9	89% 100%
13	K3	9	67% 100%
13	K4	9	100%
13	K5	9	78% 100%
14	L1	2	100%

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Mol	Chain	Length	Quality of chain
14	L2	2	100%
14	L3	2	100%
14	L4	2	100%
14	L5	2	50% 100%
15	M1	183	25% 63% 29% 8%
15	M2	183	18% 88% • 8%
15	M3	183	30% 66% 27% 8%
15	M4	183	20% 89% • 8%
16	N1	222	19% 61% 20% 19%
16	N2	222	16% 76% 5% 19%
16	N3	222	23% 60% 21% 19%
16	N4	222	18% 78% • 19%
17	O1	241	27% 68% 30% •
17	O2	241	33% 78% 21% •
17	O3	241	25% 63% 35% •
17	O4	241	36% 81% 18% •
18	P1	116	19% 91% 9%
18	P2	116	17% 92% 8%
18	P3	116	18% 88% 12%
18	P4	116	25% 91% 9%
19	Q1	84	92% 7% •
19	Q2	84	86% 10% 5%
19	Q3	84	• 92% 7% •
19	Q4	84	• 86% 10% 5%
20	R1	40	30% 30% 70%

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Mol	Chain	Length	Quality of chain
20	R2	40	
20	R3	40	
20	R4	40	
21	S1	1156	
21	S2	1156	
21	S3	1156	
21	S4	1156	
22	T1	258	
22	T2	258	
22	T3	258	
22	T4	258	
23	U1	436	
23	U2	436	
23	U3	436	
23	U4	436	
24	V1	621	
24	V2	621	
24	V3	621	
24	V4	621	
25	W1	286	
25	W2	286	
25	W3	286	
25	W4	286	
26	X1	698	
26	X2	698	

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Mol	Chain	Length	Quality of chain
26	X3	698	
26	X4	698	
27	Y1	346	
27	Y2	346	
27	Y3	346	
27	Y4	346	
28	Z1	1035	
28	Z2	1035	
28	Z3	1035	
28	Z4	1035	
29	a1	380	
29	a2	380	
29	a3	380	
29	a4	380	
30	b1	385	
30	b2	385	
30	b3	385	
30	b4	385	

2 Entry composition

There are 30 unique types of molecules in this entry. The entry contains 358888 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	C	N	O	S	0	0
			1971	1239	360	368	4		
17	O4	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		

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

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

- Molecule 19 is a protein called NUP53 RRM.

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

- Molecule 20 is a protein called NUP93 R1.

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

- 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	419	Total	C	N	O	S	0	0
			3404	2178	557	657	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		

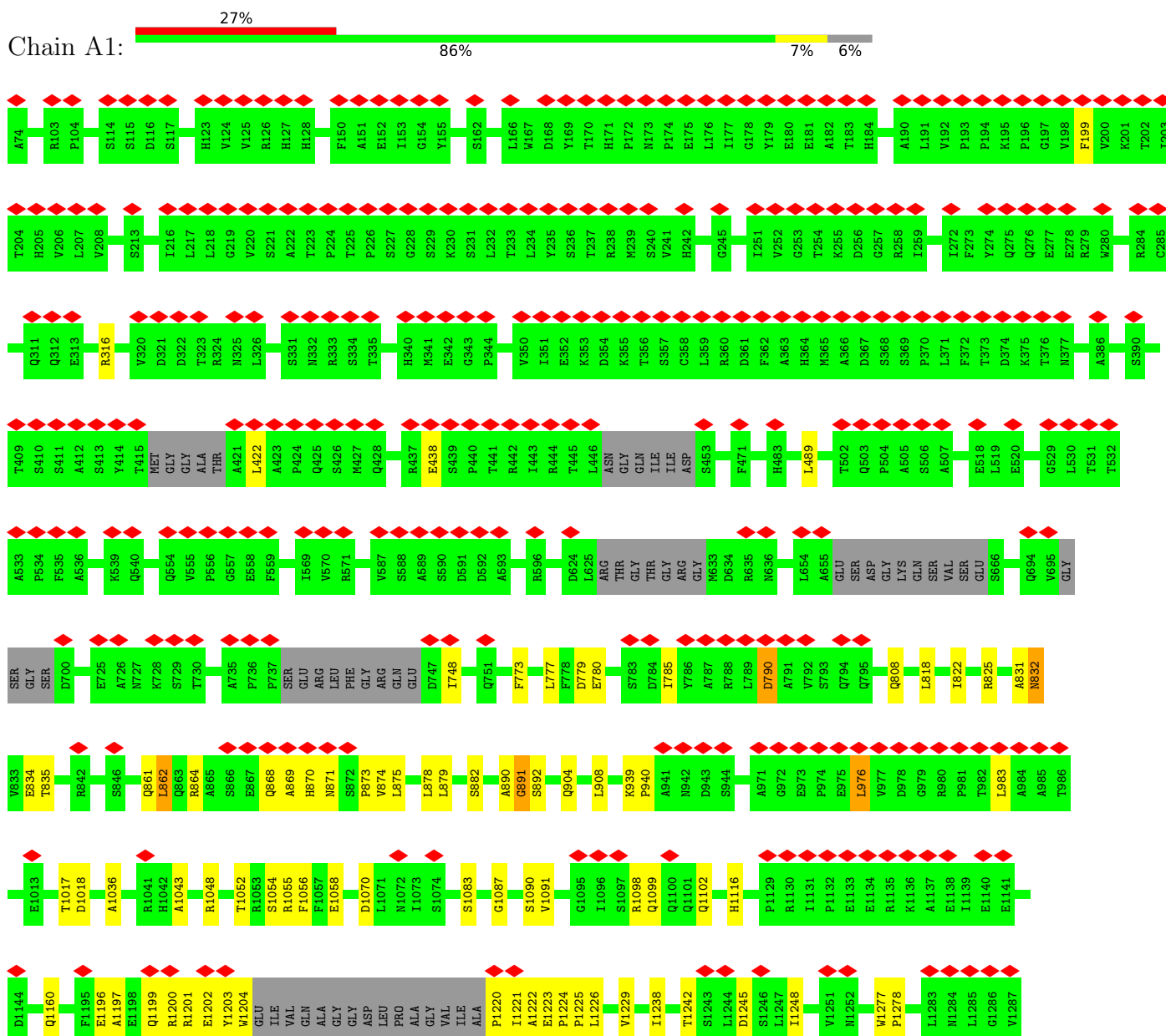
- Molecule 30 is a protein called NUP37.

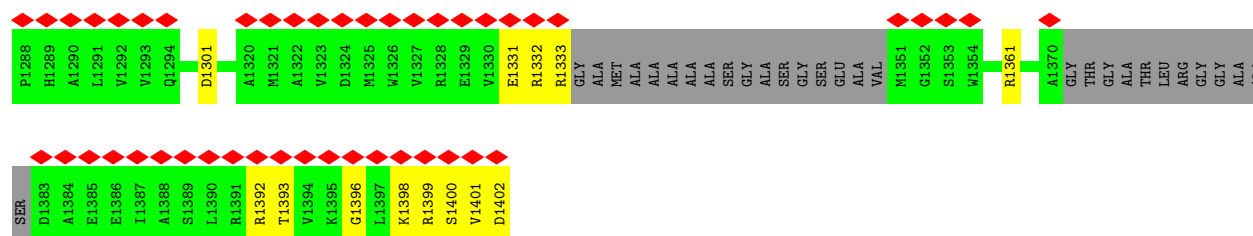
Mol	Chain	Residues	Atoms					AltConf	Trace
30	b1	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b2	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b3	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b4	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		

3 Residue-property plots

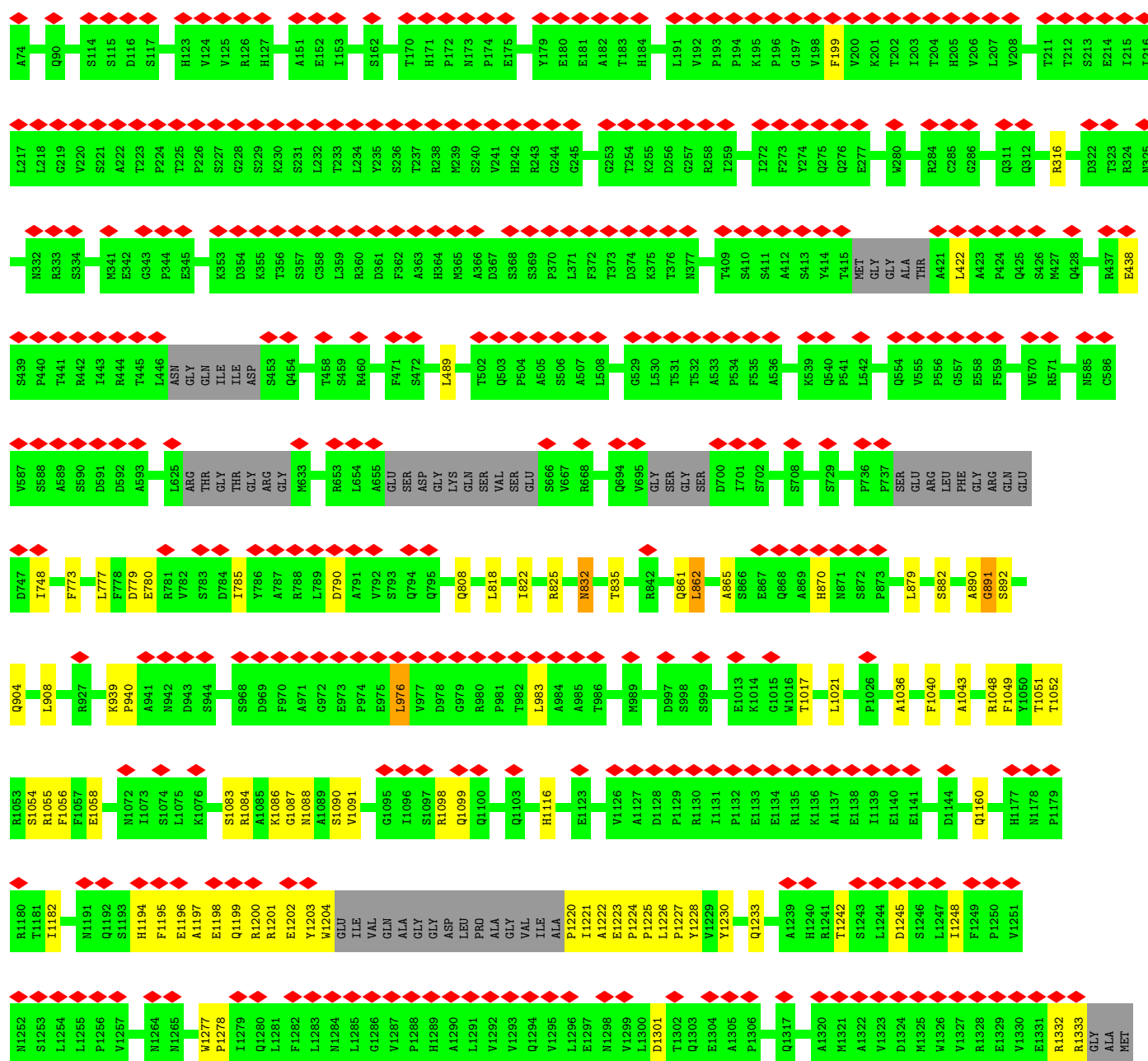
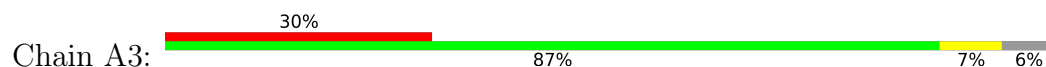
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

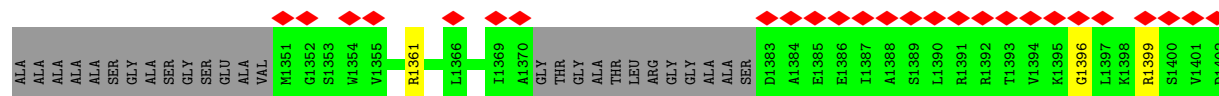
• Molecule 1: NUP155



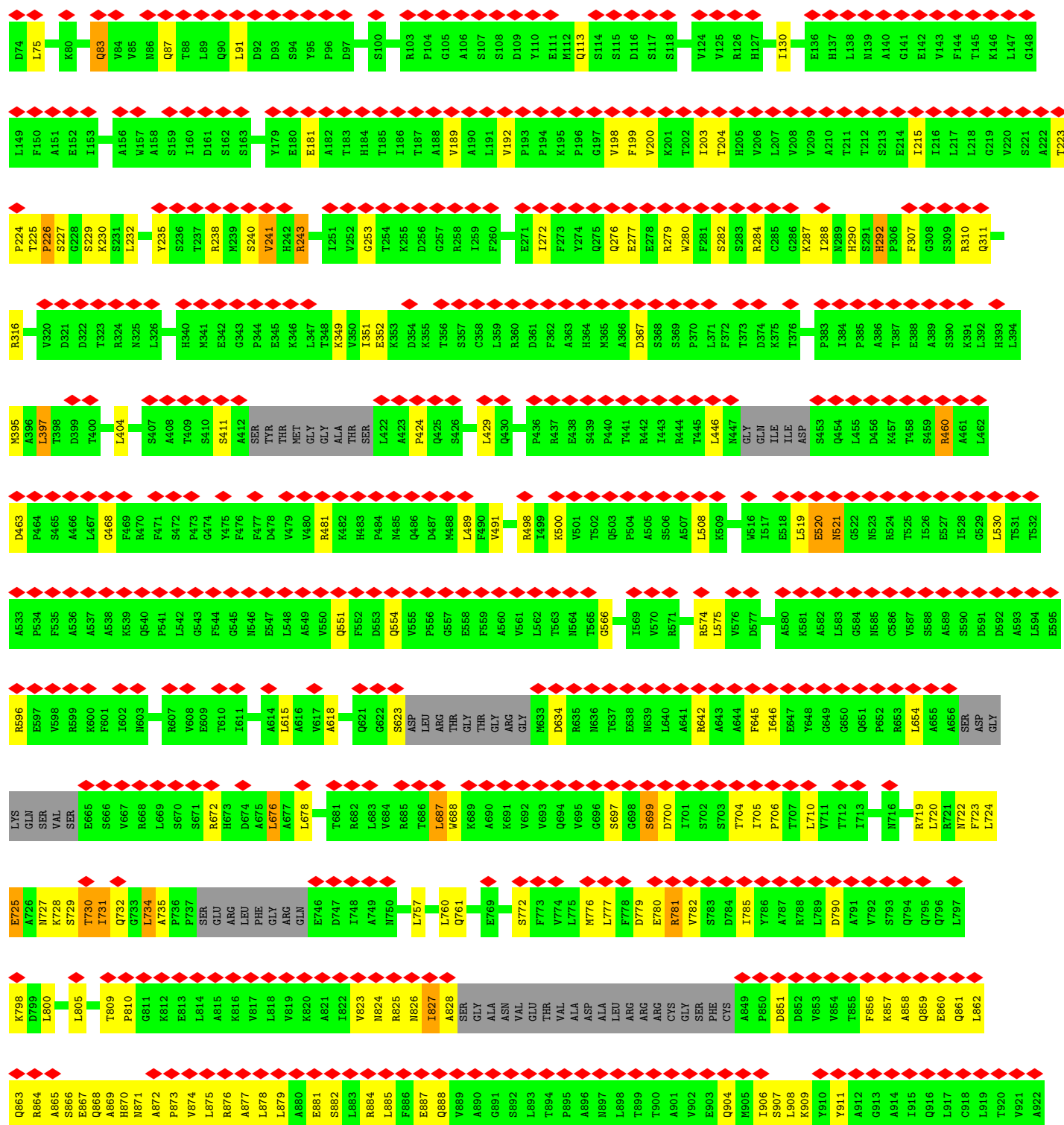
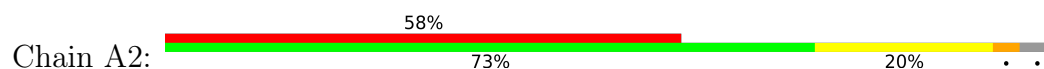


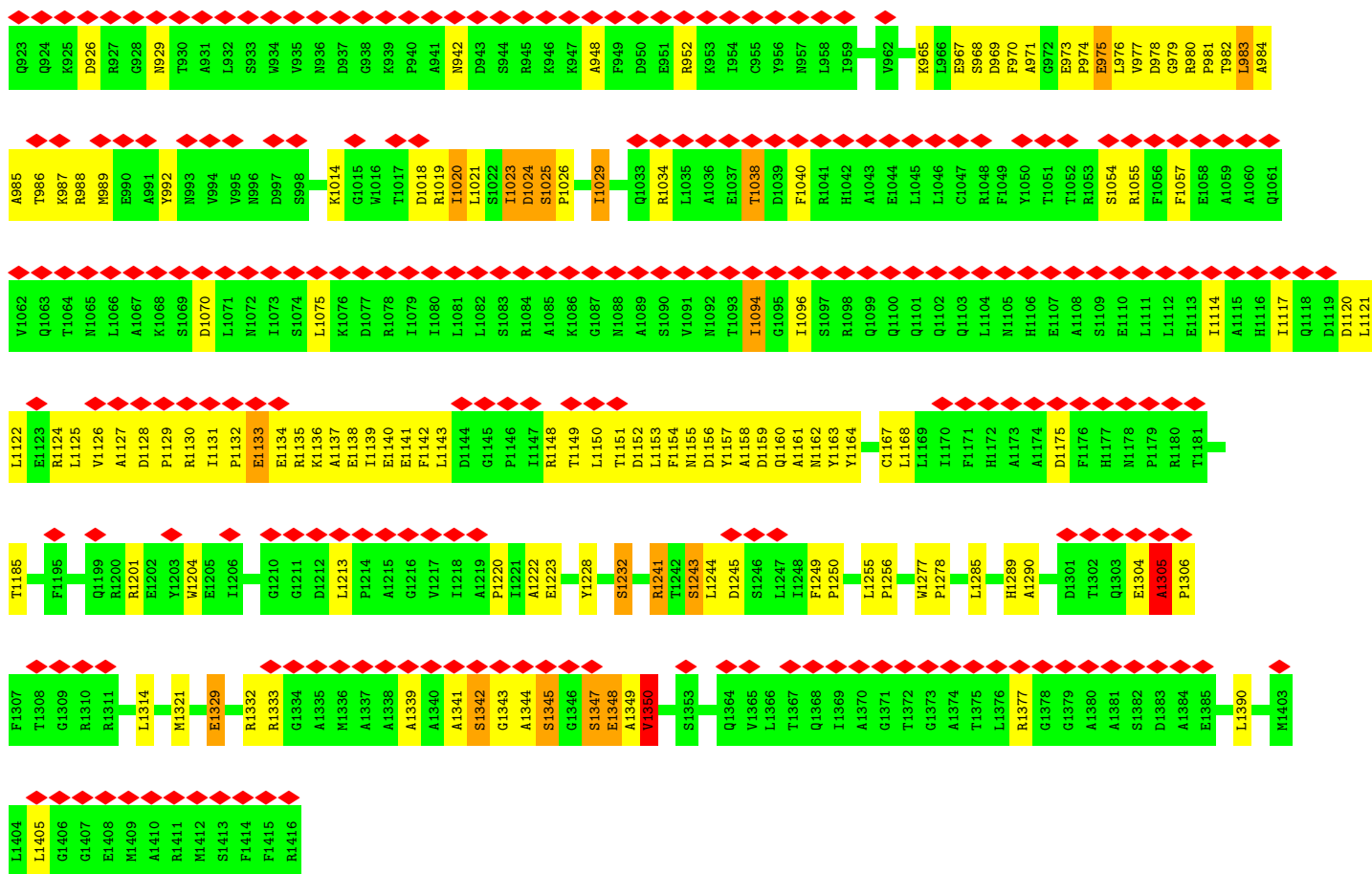
• Molecule 1: NUP155





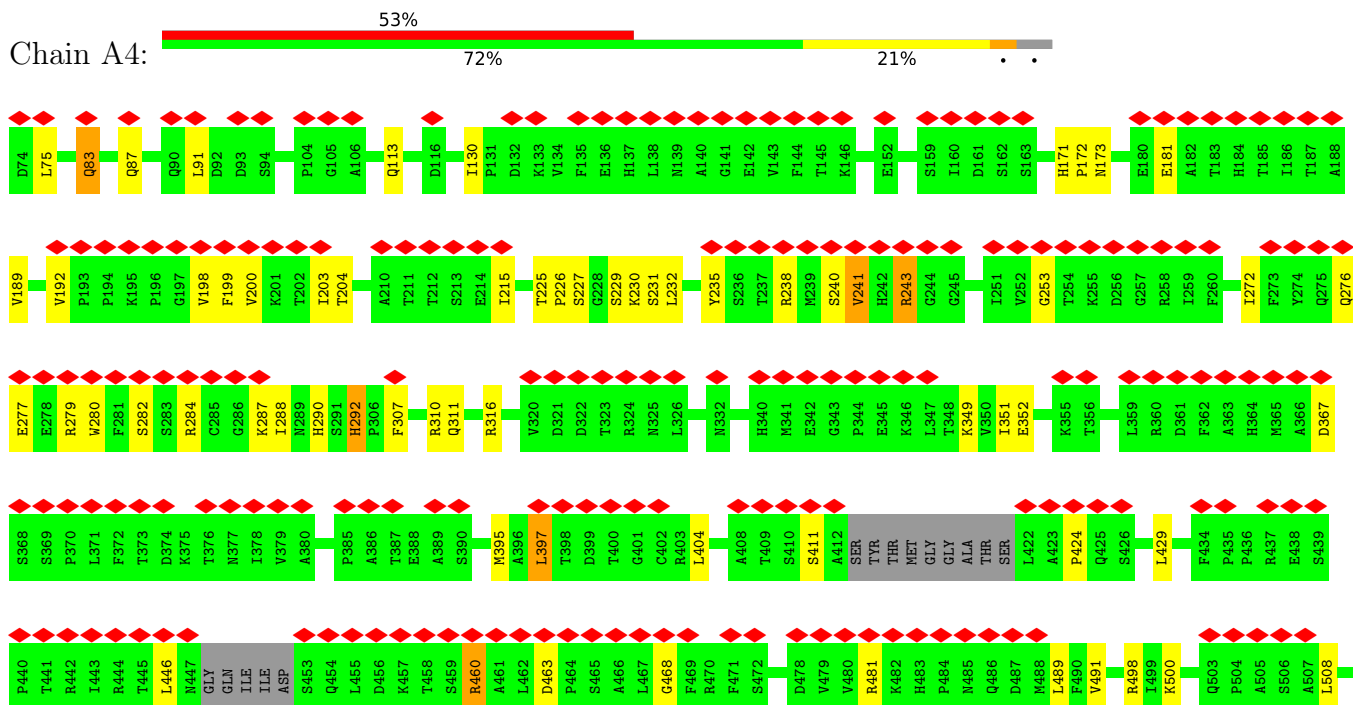
● Molecule 2: NUP155

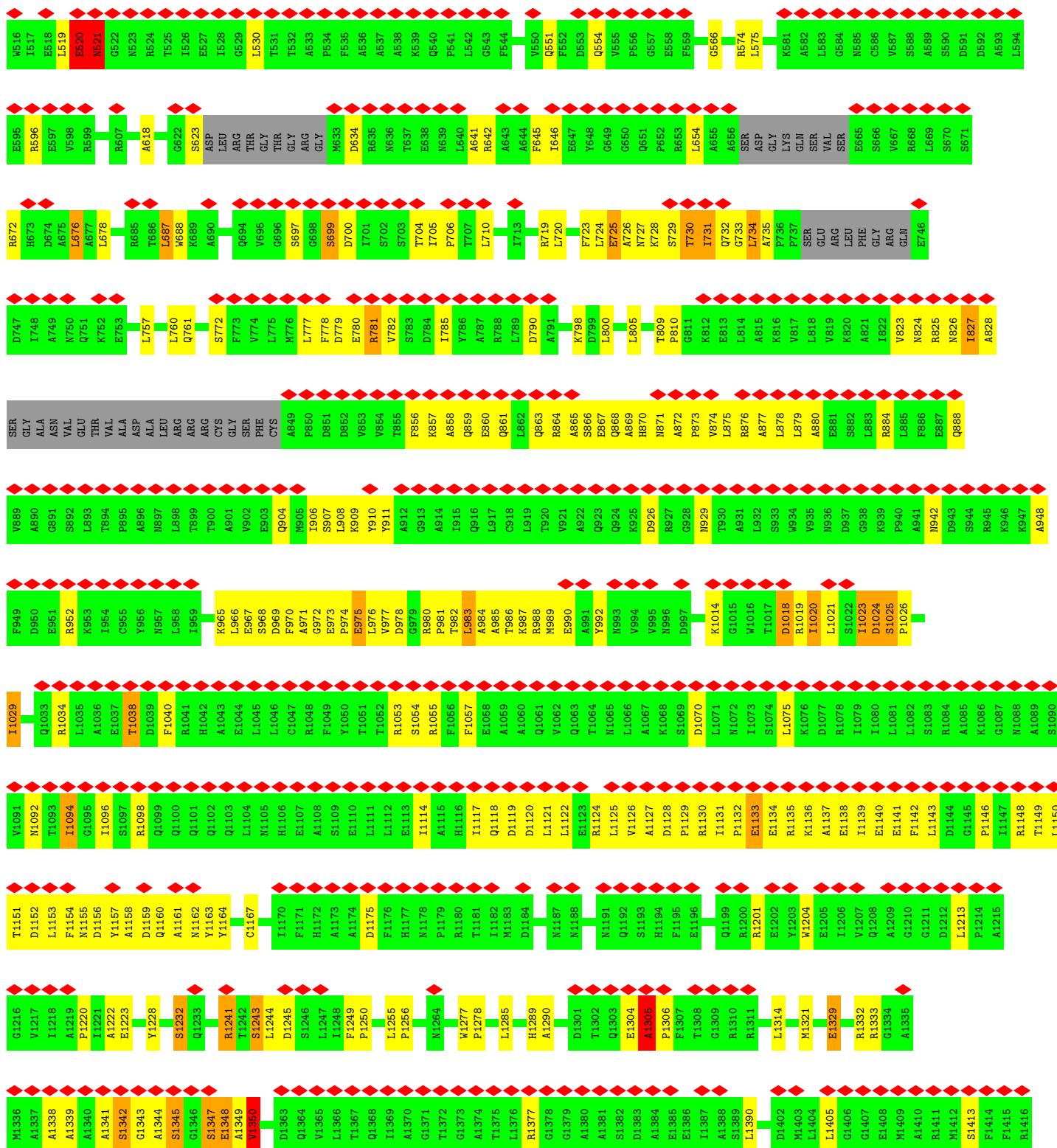




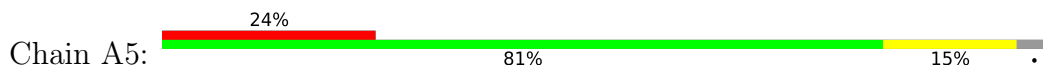
• Molecule 2: NUP155

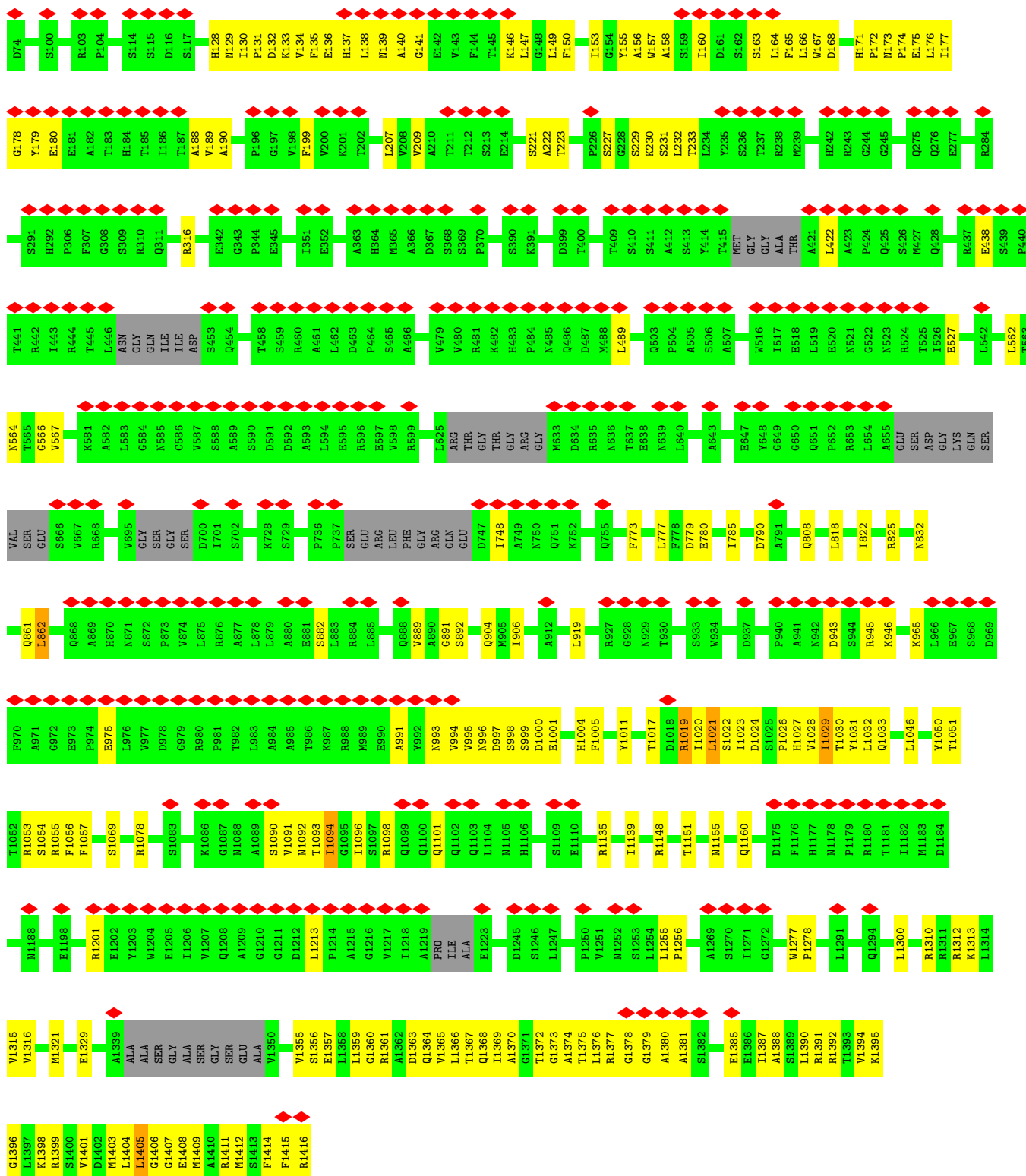
Chain A4:



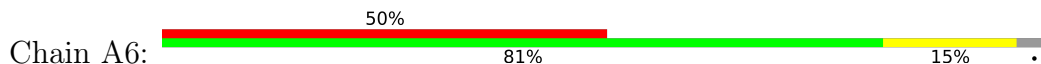


• Molecule 3: NUP155

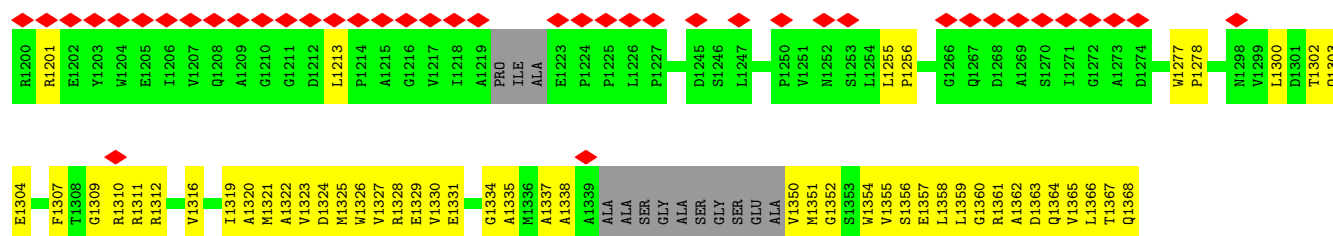




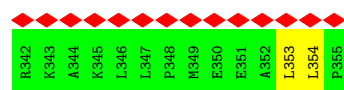
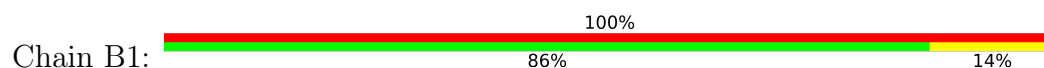
• Molecule 3: NUP155







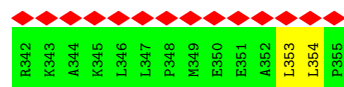
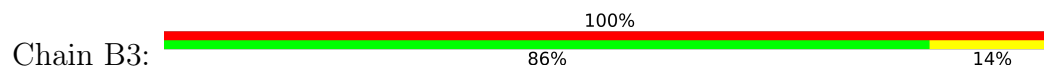
• Molecule 4: NUP53 R3



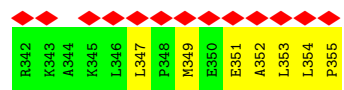
• Molecule 4: NUP53 R3



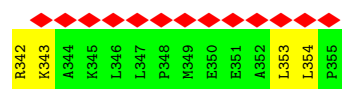
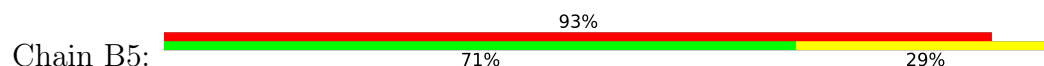
• Molecule 4: NUP53 R3



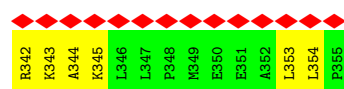
• Molecule 4: NUP53 R3



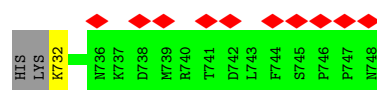
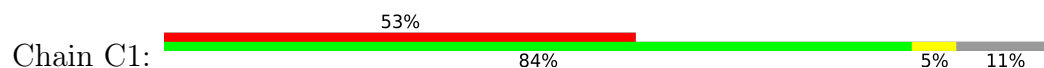
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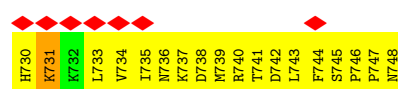
• Molecule 4: NUP53 R3



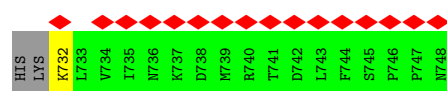
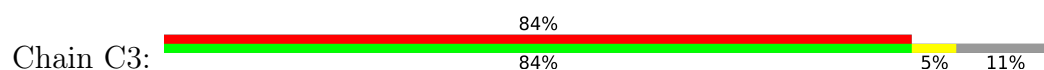
• Molecule 5: NUP98 R3



• Molecule 5: NUP98 R3



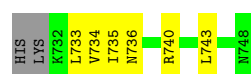
• Molecule 5: NUP98 R3



• Molecule 5: NUP98 R3



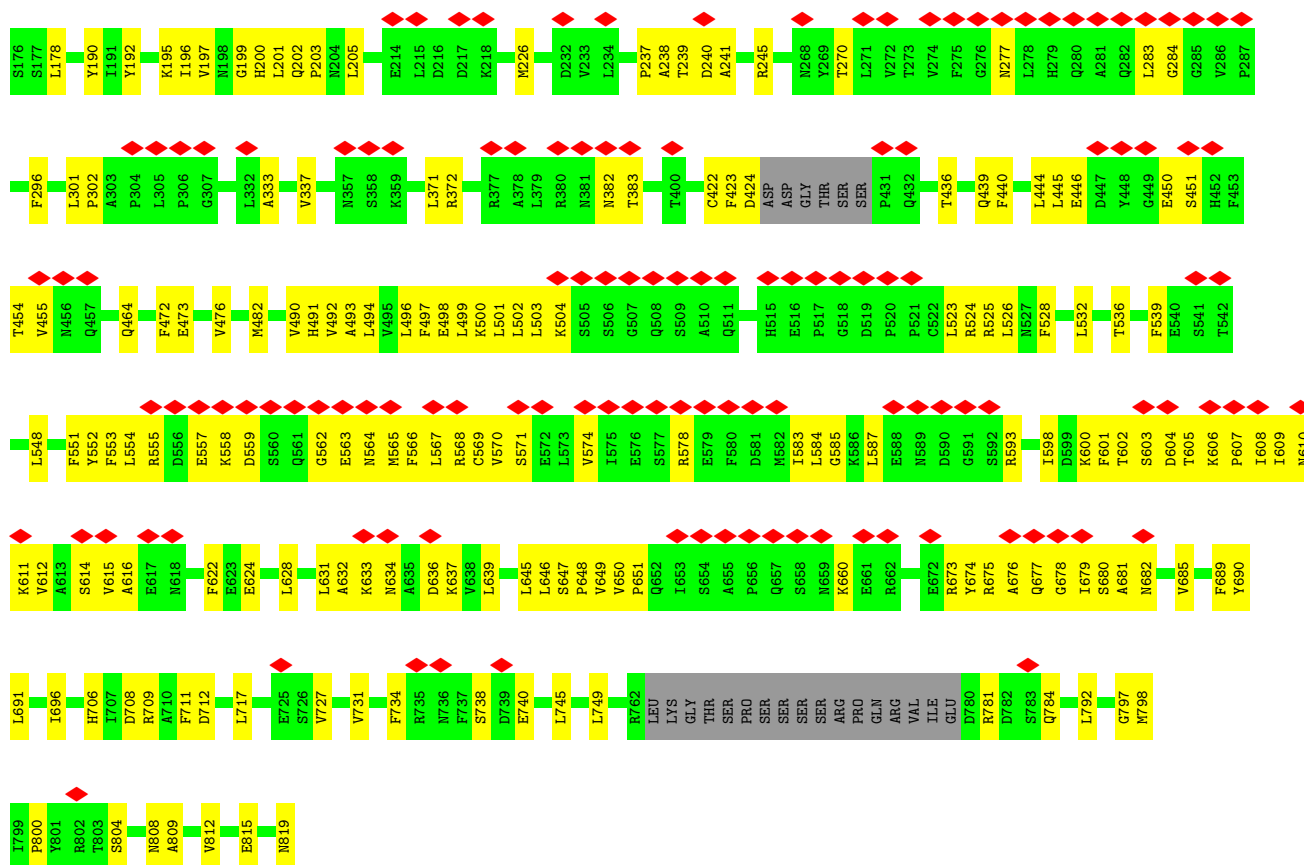
• Molecule 5: NUP98 R3



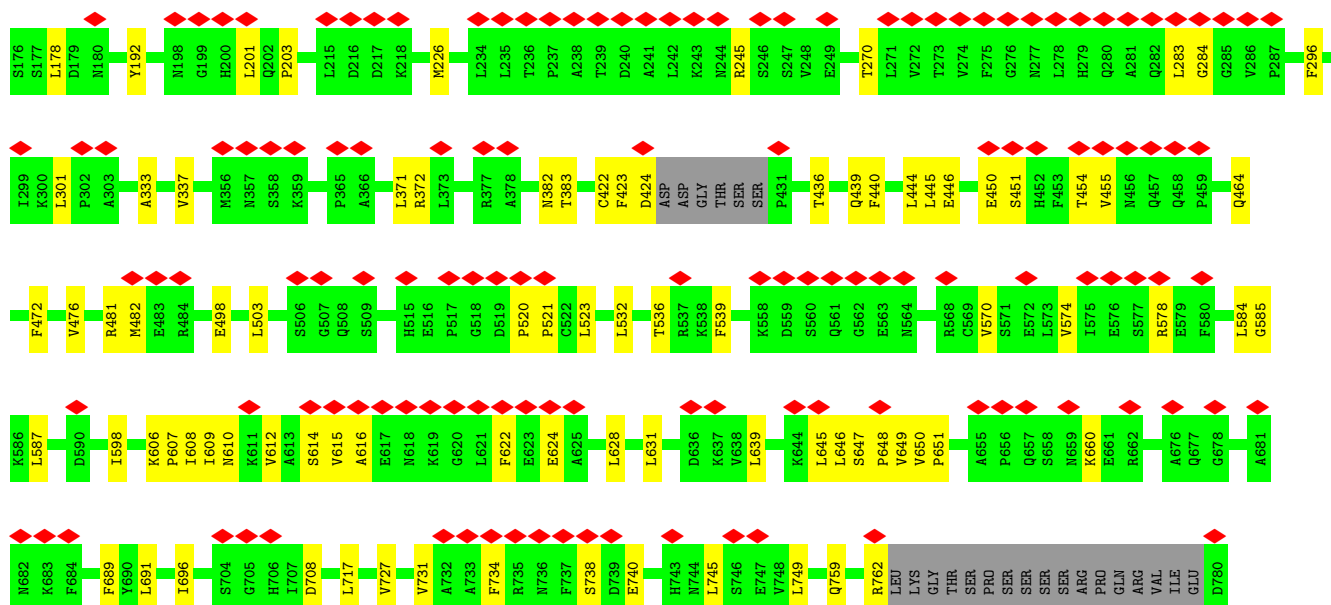
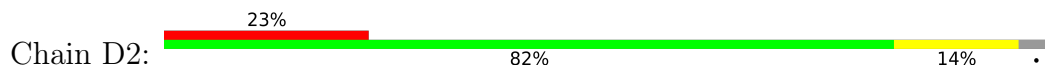
• Molecule 5: NUP98 R3



• Molecule 6: NUP93 SOL

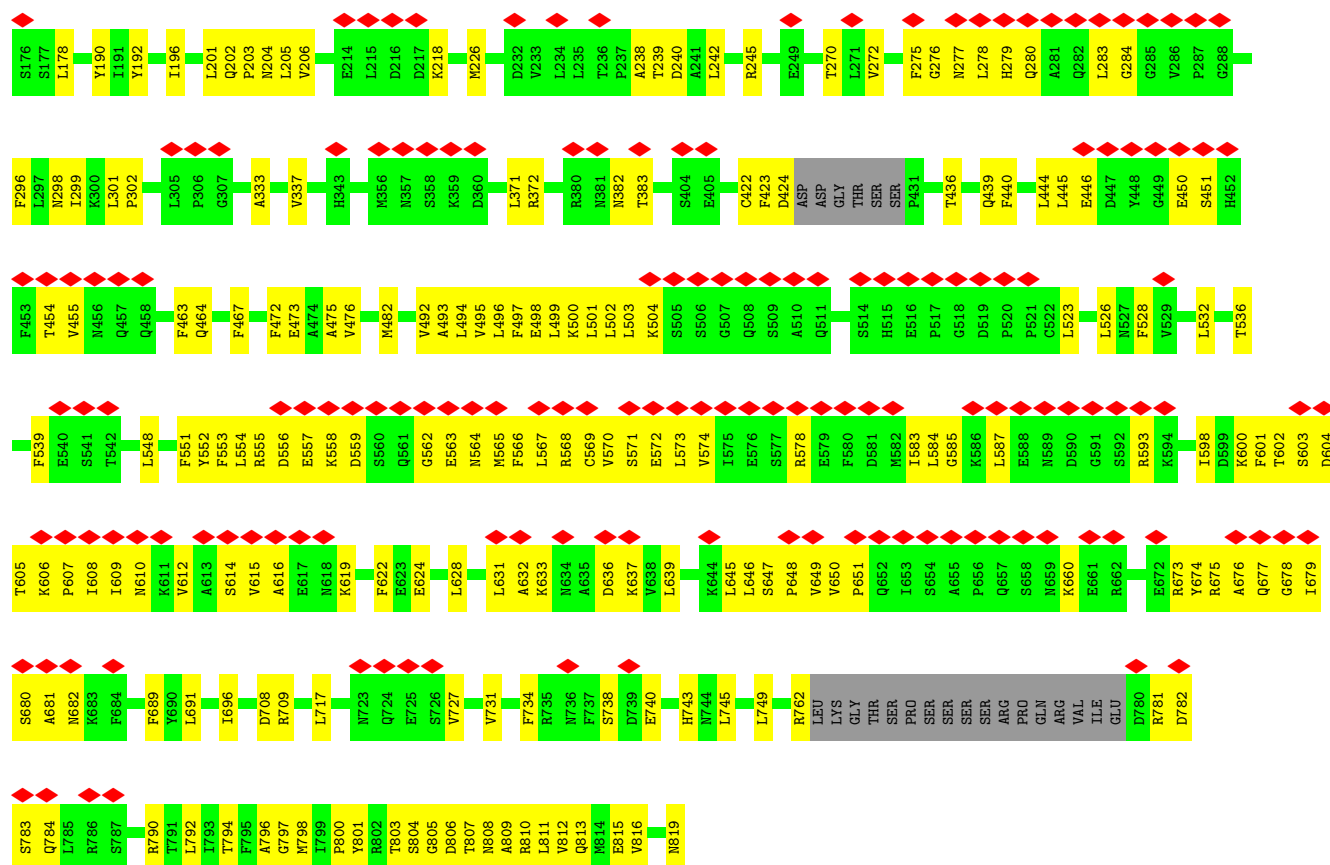


• Molecule 6: NUP93 SOL

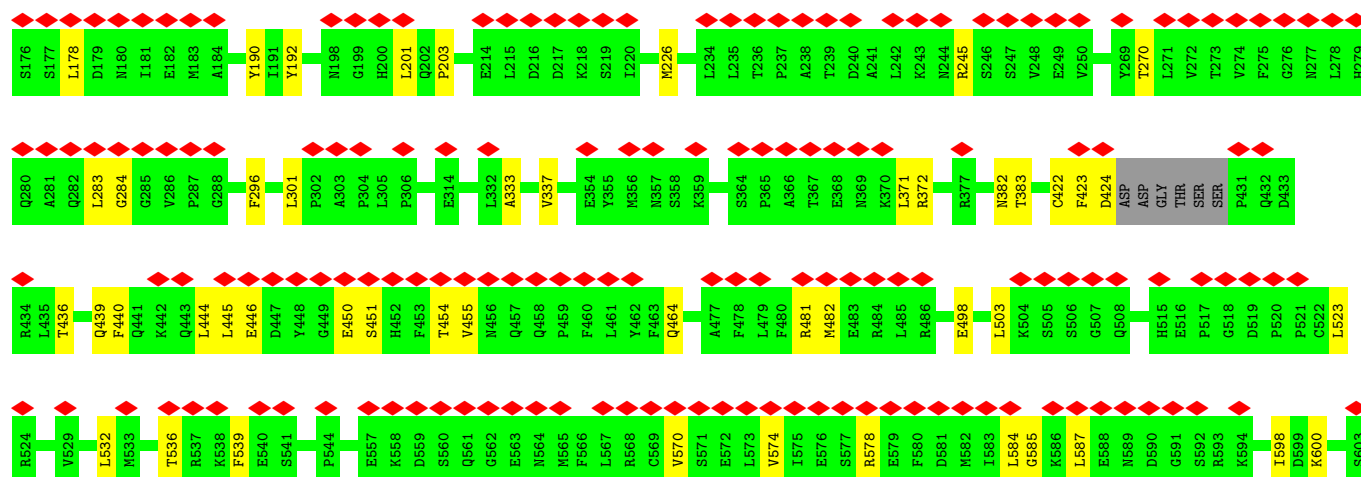
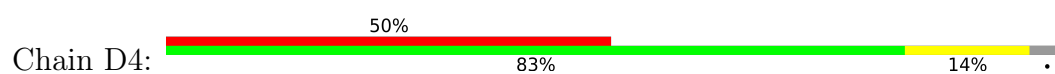


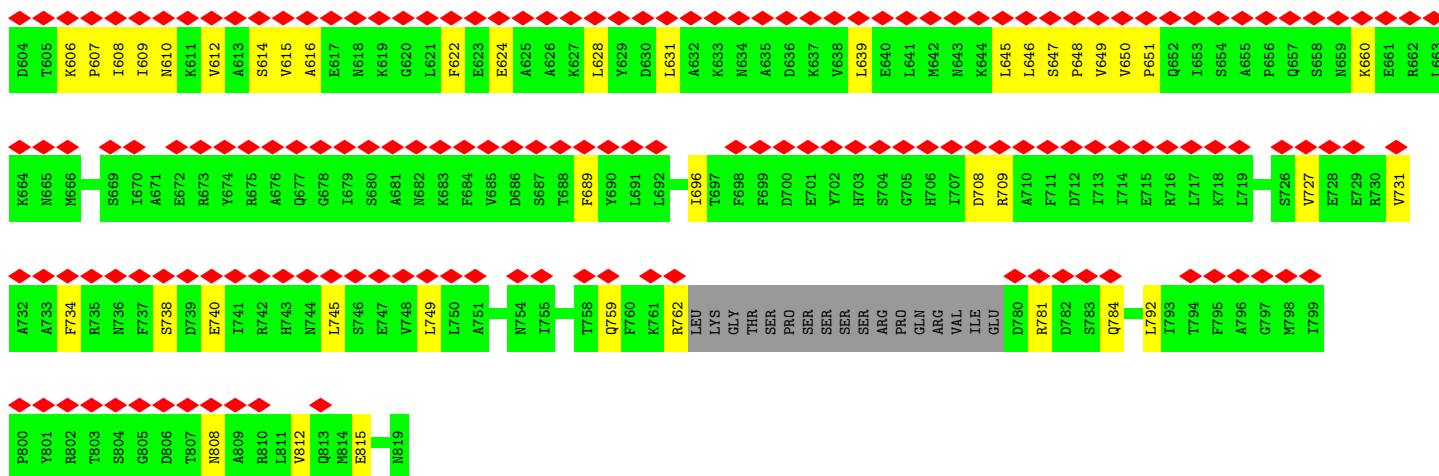


• Molecule 6: NUP93 SOL

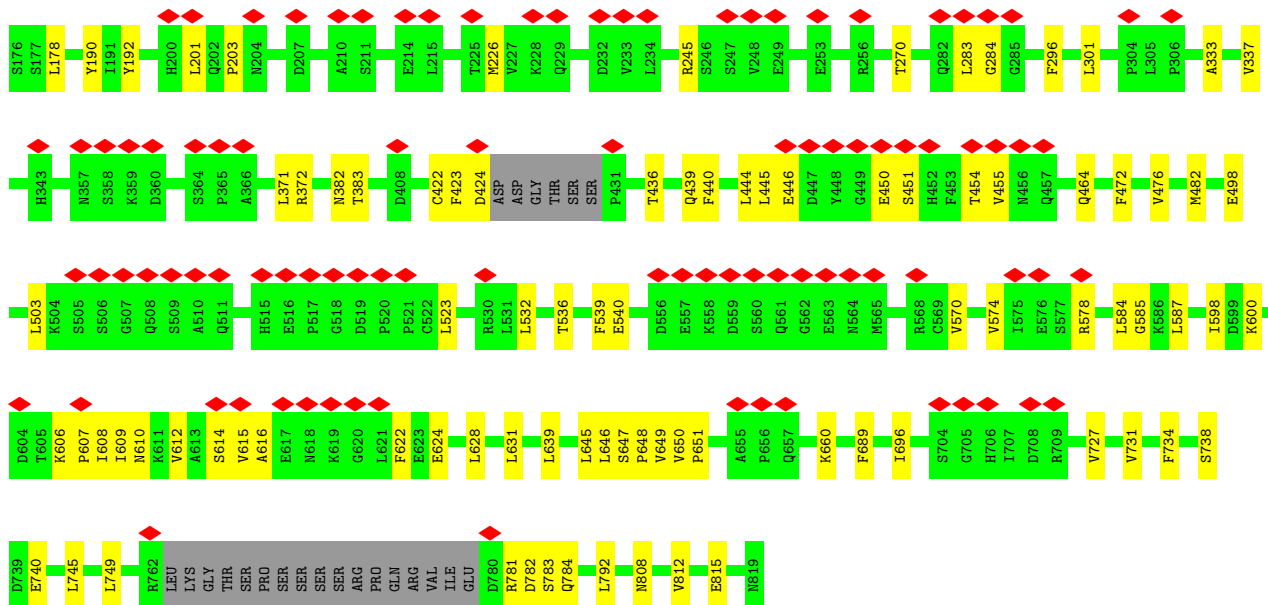
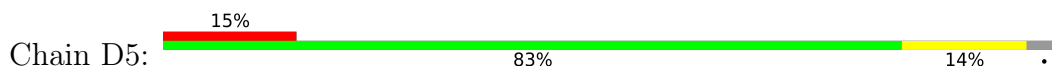


• Molecule 6: NUP93 SOL

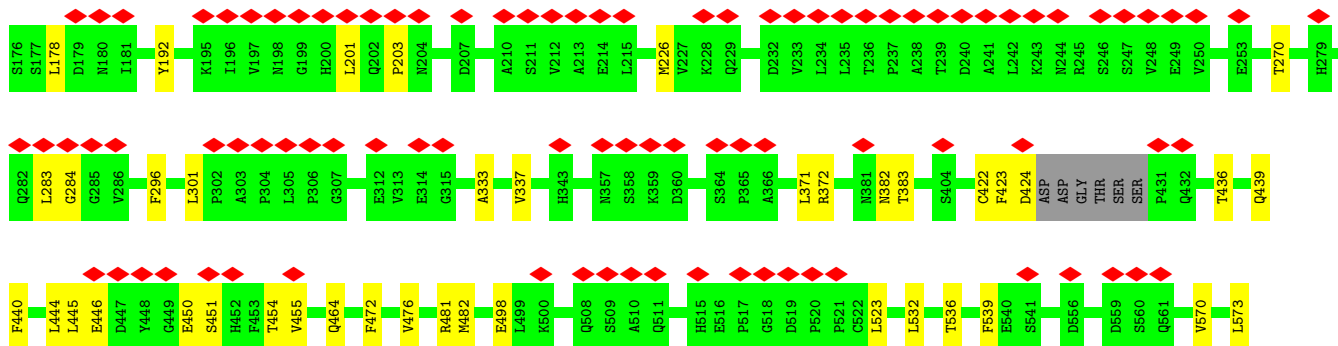
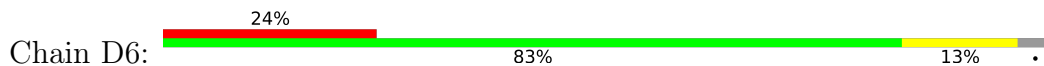


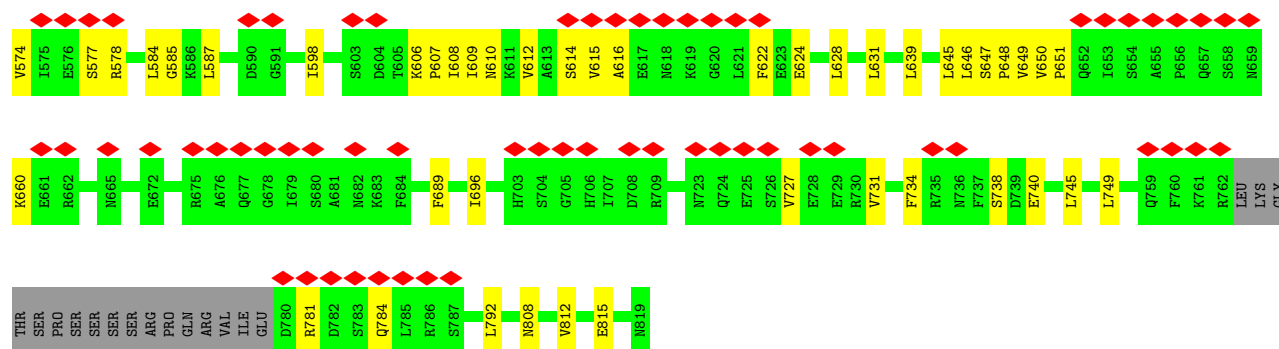


• Molecule 6: NUP93 SOL

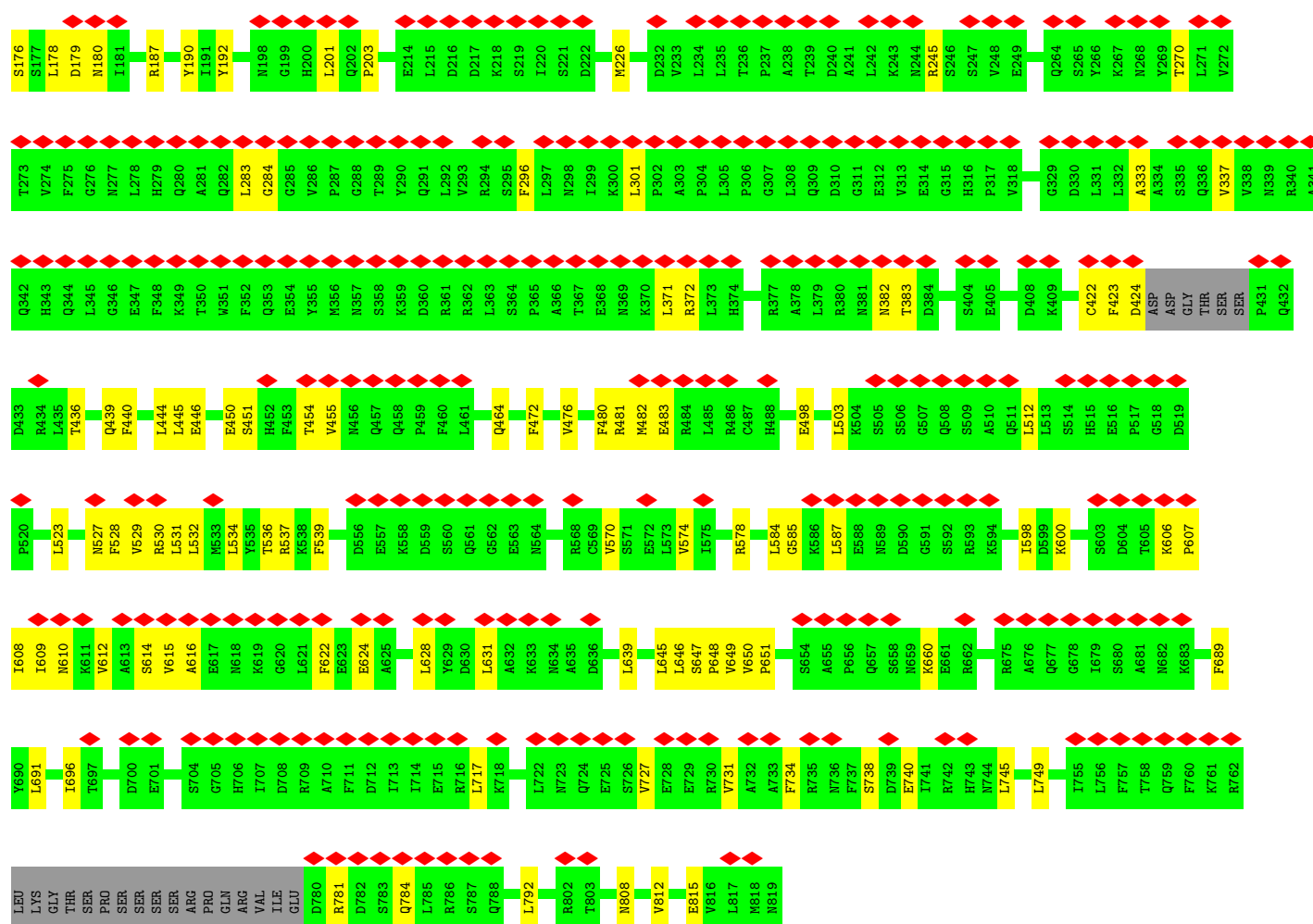
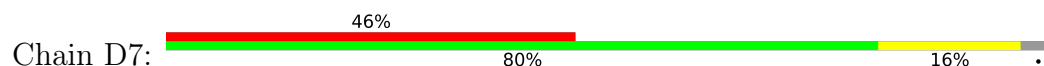


• Molecule 6: NUP93 SOL

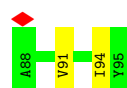
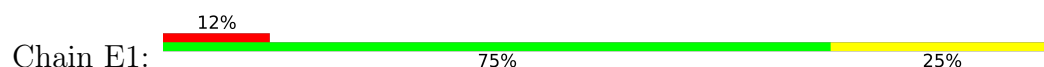




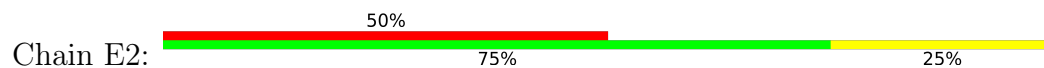
• Molecule 6: NUP93 SOL



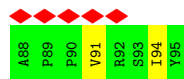
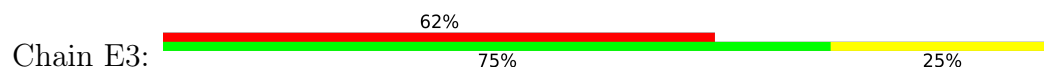
• Molecule 7: NUP53 R2



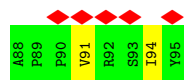
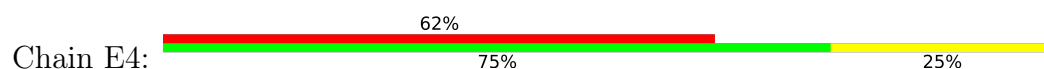
• Molecule 7: NUP53 R2



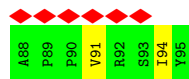
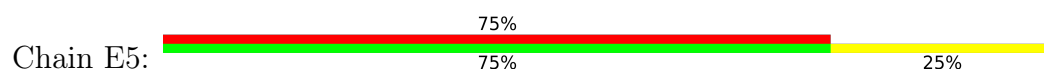
• Molecule 7: NUP53 R2



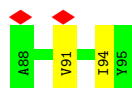
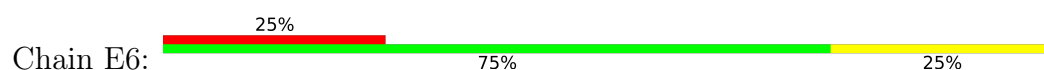
• Molecule 7: NUP53 R2



• Molecule 7: NUP53 R2



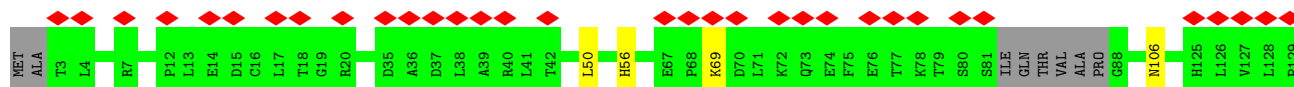
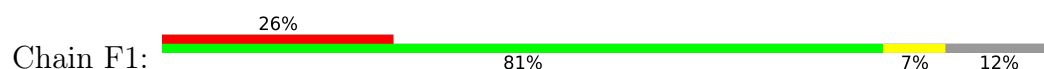
• Molecule 7: NUP53 R2



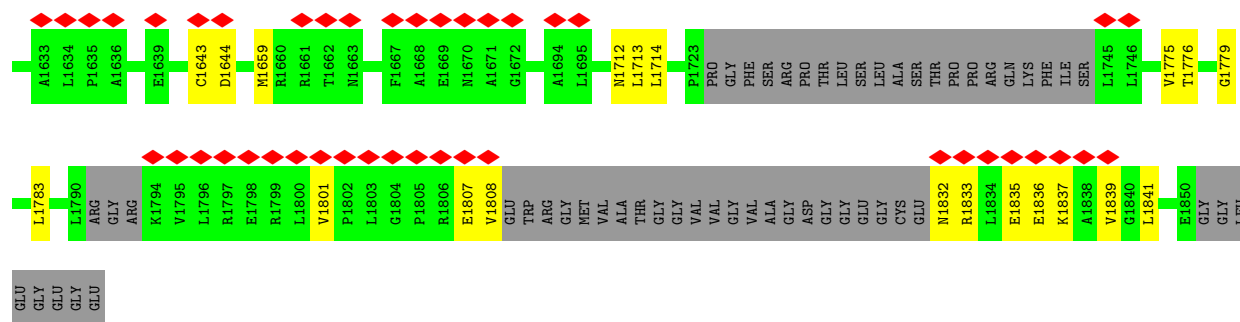
• Molecule 7: NUP53 R2



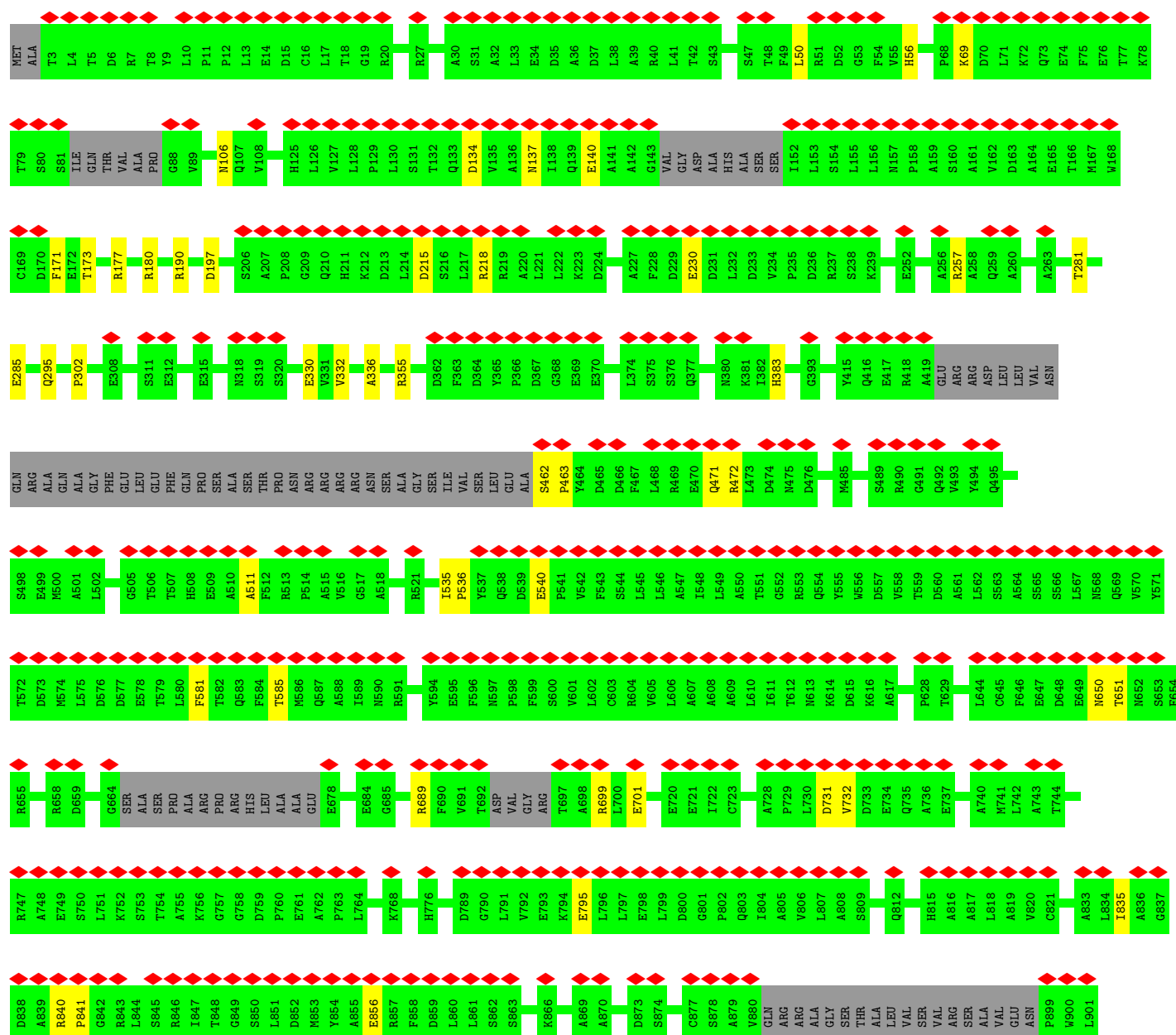
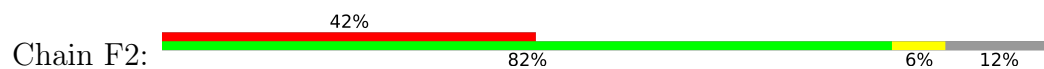
• Molecule 8: NUP188

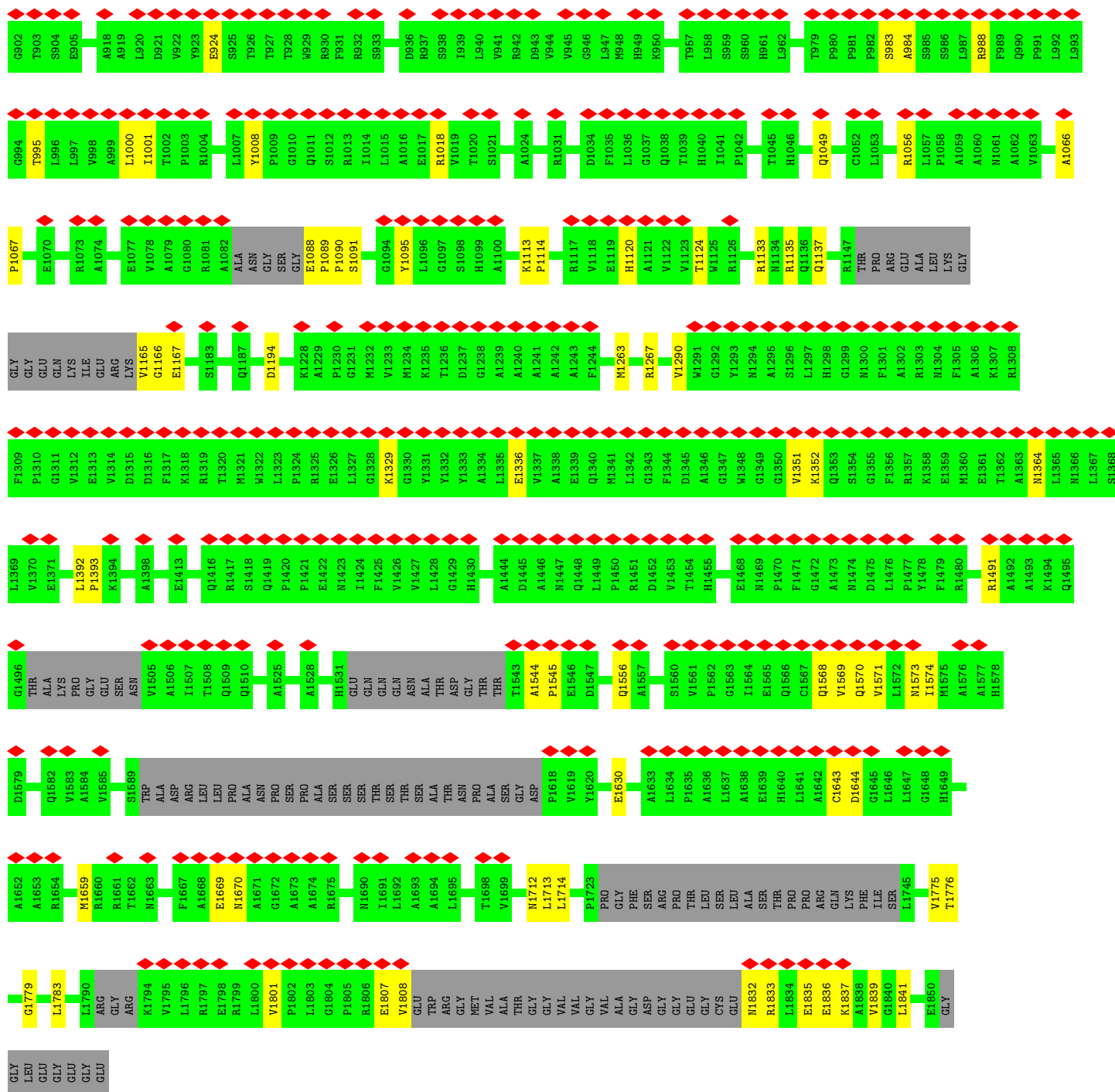


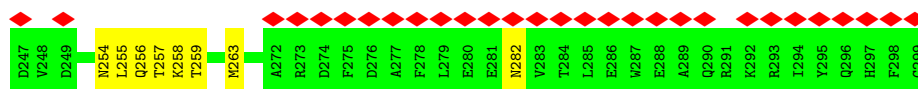
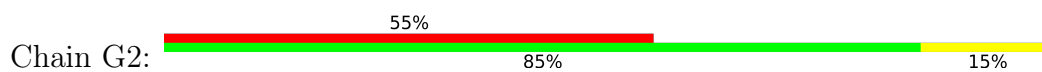
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A1363	N1364	L1365	N1366	L1367	S1368	L1369	L1392	P1393	K1394	E1422	N1423	V1426	D1445	A1446	N1447	R1451	F1471	G1472	A1473	N1474	D1475	L1476	P1477	R1491	K1494	Q1495	G1496	THR	ALA	LYS	PRO	GLY	GLU	SER	SER	ASN	THR	V1505	A1506	I1507	H1531	GLU	GLN	GLN	GLN	ASN	ALA	ASP	P1618	E1630									
R1303	M1304	F1305	A1306	K1307	R1308	F1309	P1310	G1311	V1312	E1313	V1314	D1315	F1316	F1317	K1318	R1319	T1320	M1321	W1322	L1323	P1324	R1325	E1326	L1327	G1328	K1329	G1330	Y1331	Y1332	Y1333	A1334	L1335	E1336	V1337	A1338	E1339	Q1340	M1341	L1342	G1343	F1344	D1345	A1346	G1347	W1348	G1349	G1350	V1351	K1352	Q1353	S1354	G1355	F1356	R1357	K1358	E1359	M1360	E1361	T1362
GLY	GLU	GLN	LYS	ILE	GLU	ARG	LYS	V1165	A1166	E1167	Q1187	D1194	Y1202	W1203	P1204	W1205	R1211	E1215	M1232	V1233	M1234	K1235	T1236	D1237	G1238	A1239	A1240	A1241	A1242	A1243	F1244	M1258	Y1261	H1262	M1263	R1264	Q1265	M1266	R1267	V1290	N1294	A1295	S1296	L1297	H1298	G1299	N1300	F1301	A1302										
E1077	V1078	A1079	G1080	R1081	A1082	ALA	ASN	GLY	GLY	E1088	P1089	P1090	S1091	L1092	L1093	G1094	Y1095	L1096	G1097	S1098	H1099	A1100	A1101	R1102	K1113	P1114	R1117	V1118	E1119	H1120	A1121	V1122	V1123	T1124	W1125	R1126	A1130	R1133	N1134	Q1136	Q1137	W1138	R1147	THR	PRO	PRO	GLU	ALA	LYS	GLY									
L997	L1000	I1001	Y1008	P1009	Q1010	S1012	R1013	I1014	L1015	A1016	E1017	R1018	V1019	T1020	S1021	A1024	T1027	R1031	G1037	Q1038	T1039	H1040	L1043	Q1044	T1045	H1046	L1047	F1048	Q1049	S1050	A1051	C1052	L1053	L1054	A1055	R1056	N1061	A1062	V1063	Y1064	R1065	A1066	P1067	E1070	R1073	A1074	L1075	V1076											
P775	H776	N777	E795	L796	L797	E798	L799	D800	G801	P802	H815	A819	I835	A839	R840	P841	R846	G849	S850	L851	D852	H853	Y854	A855	E856	R857	F858	D859	S862	S863	K866	L867	F868	A869	A870	D873	S874	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	E924	T928	W929	R930	F931	R932	I939	R942	D943	G946	H949	K950	T957	L958	S959	S960	H961	P980	P981	S982	A984	S985	S986	L987	R988	P989	Q990	P991	L992	L993	T995	L996										
L997	L1000	I1001	Y1008	P1009	Q1010	S1012	R1013	I1014	L1015	A1016	E1017	R1018	V1019	T1020	S1021	A1024	T1027	R1031	G1037	Q1038	T1039	H1040	L1043	Q1044	T1045	H1046	L1047	F1048	Q1049	S1050	A1051	C1052	L1053	L1054	A1055	R1056	N1061	A1062	V1063	Y1064	R1065	A1066	P1067	E1070	R1073	A1074	L1075	V1076											



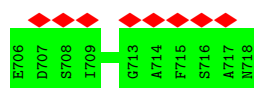
• Molecule 8: NUP188



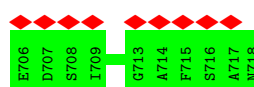




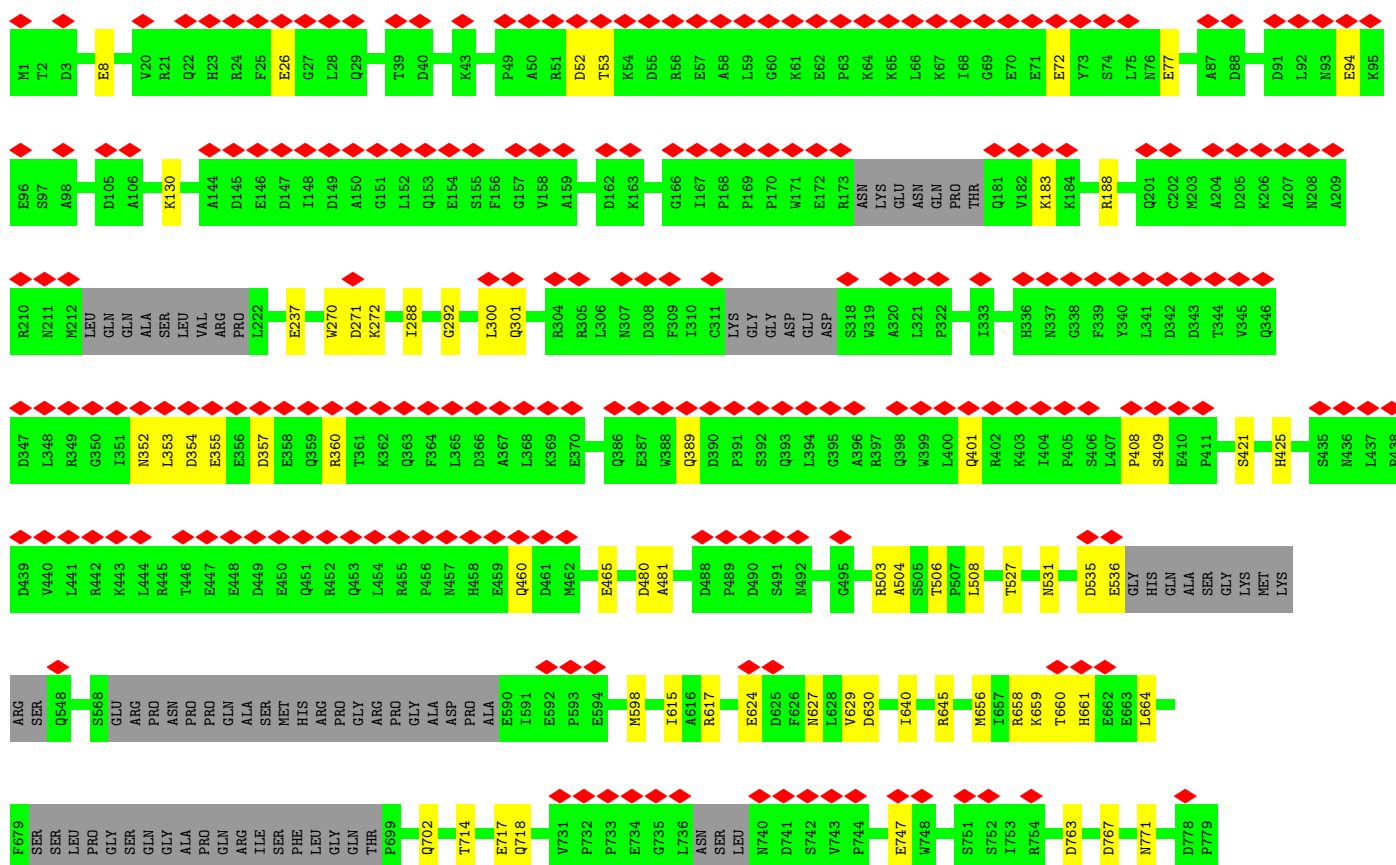
• Molecule 10: NUP98 R2

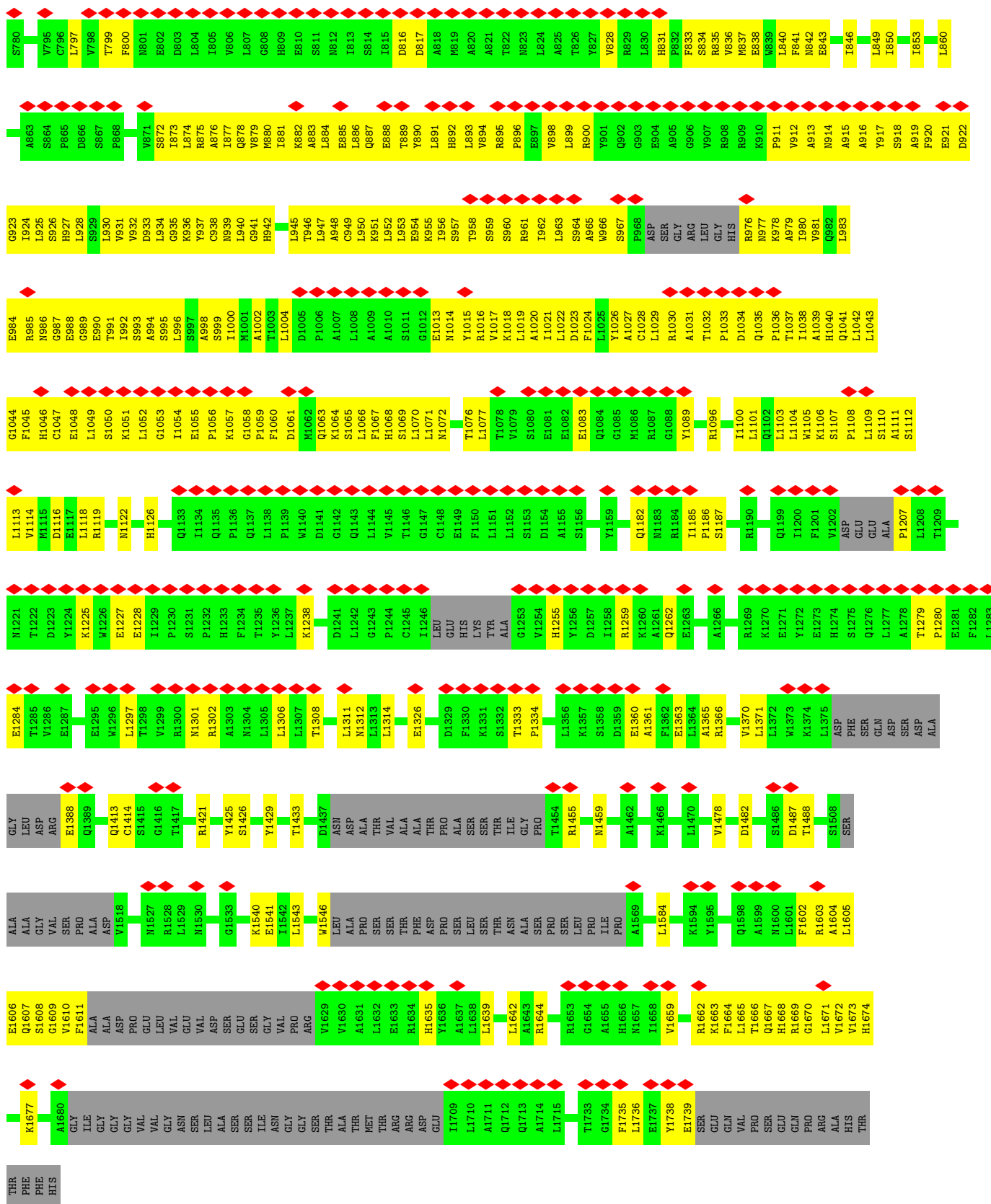


• Molecule 10: NUP98 R2

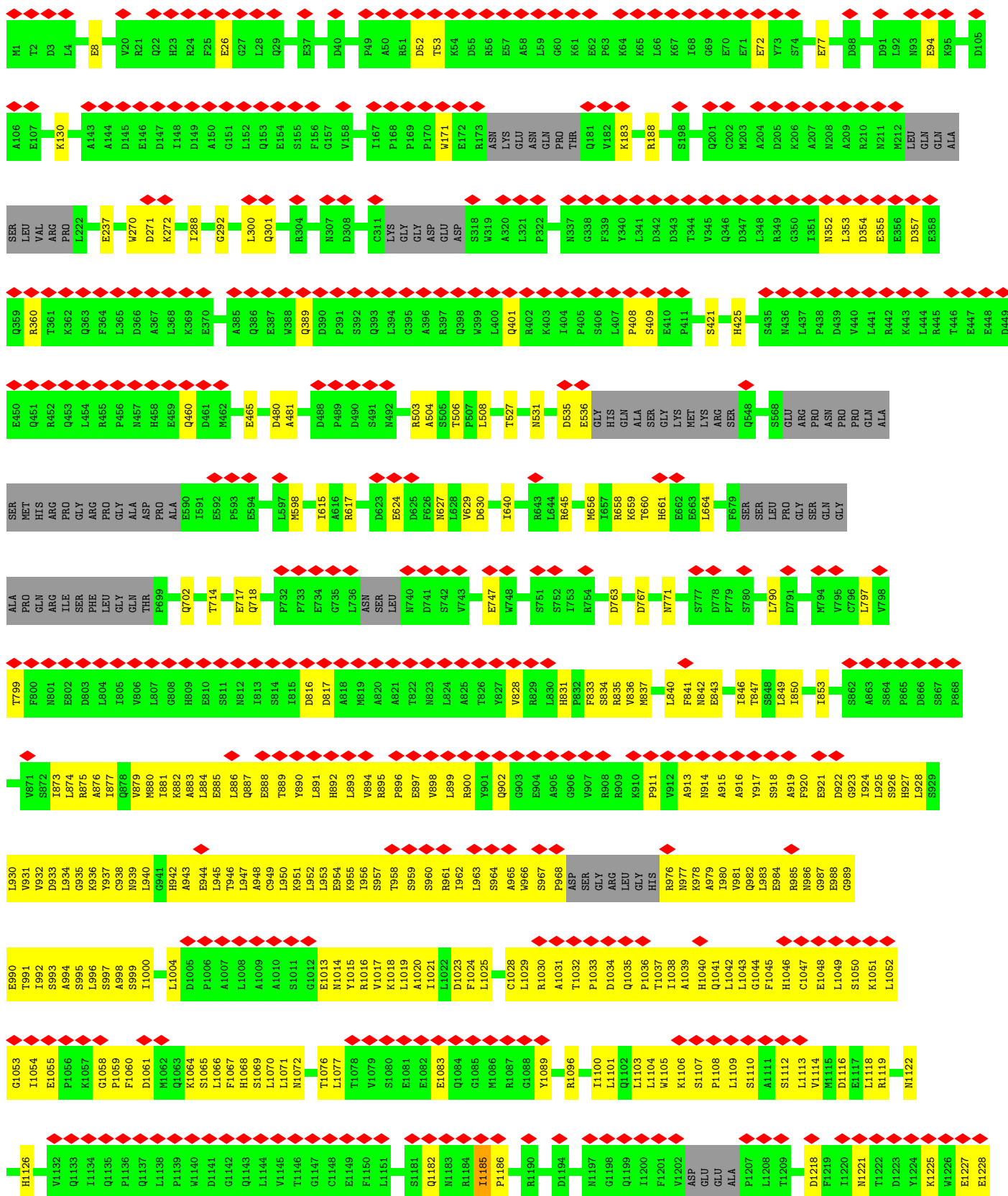


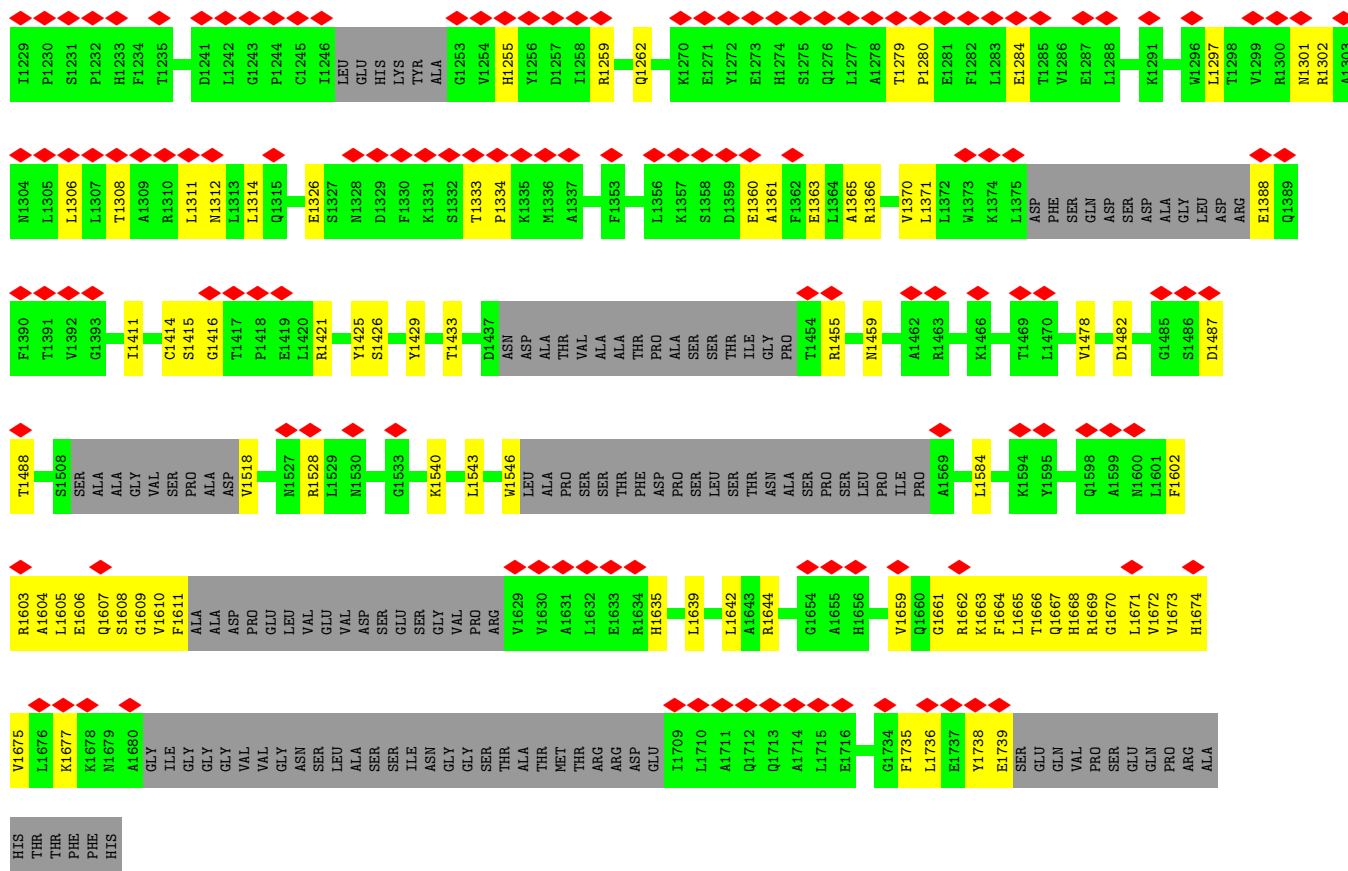
• Molecule 11: NUP205



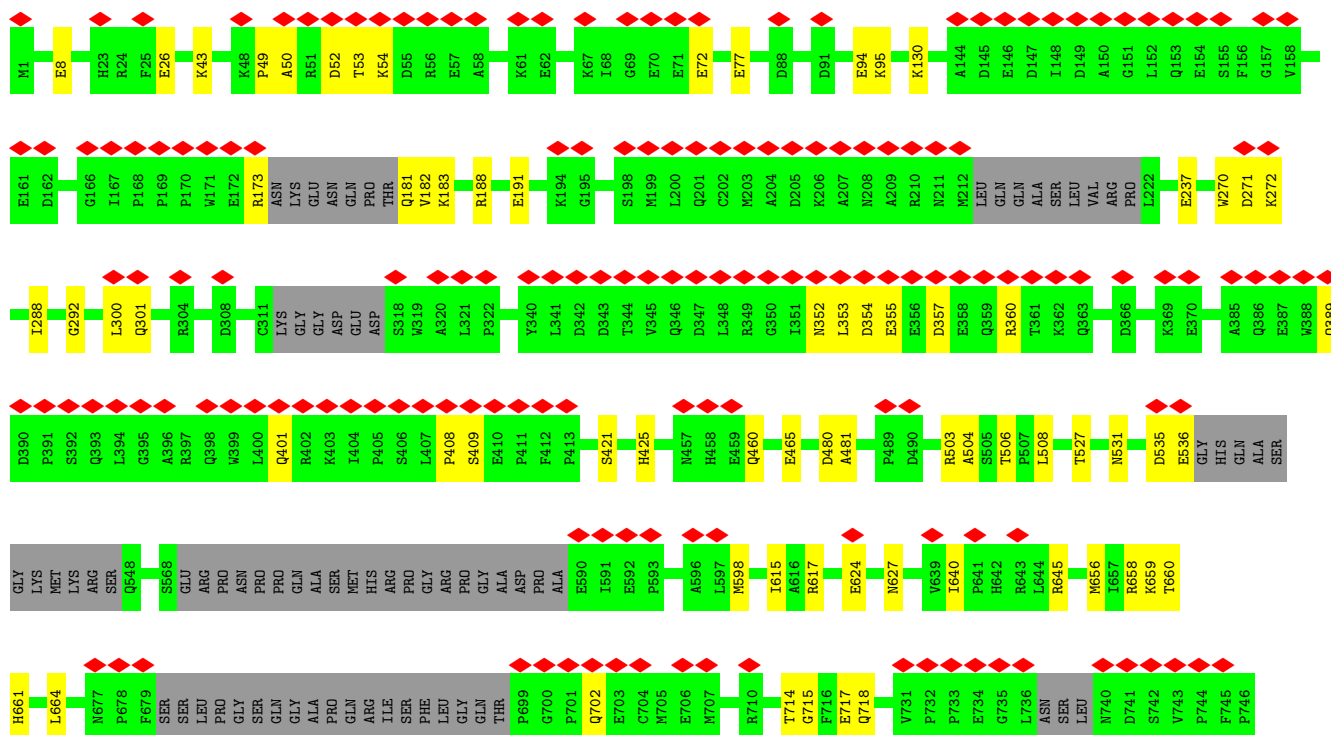
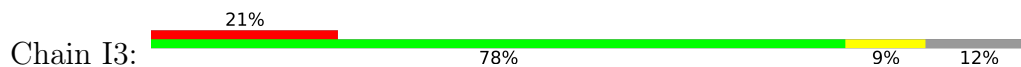


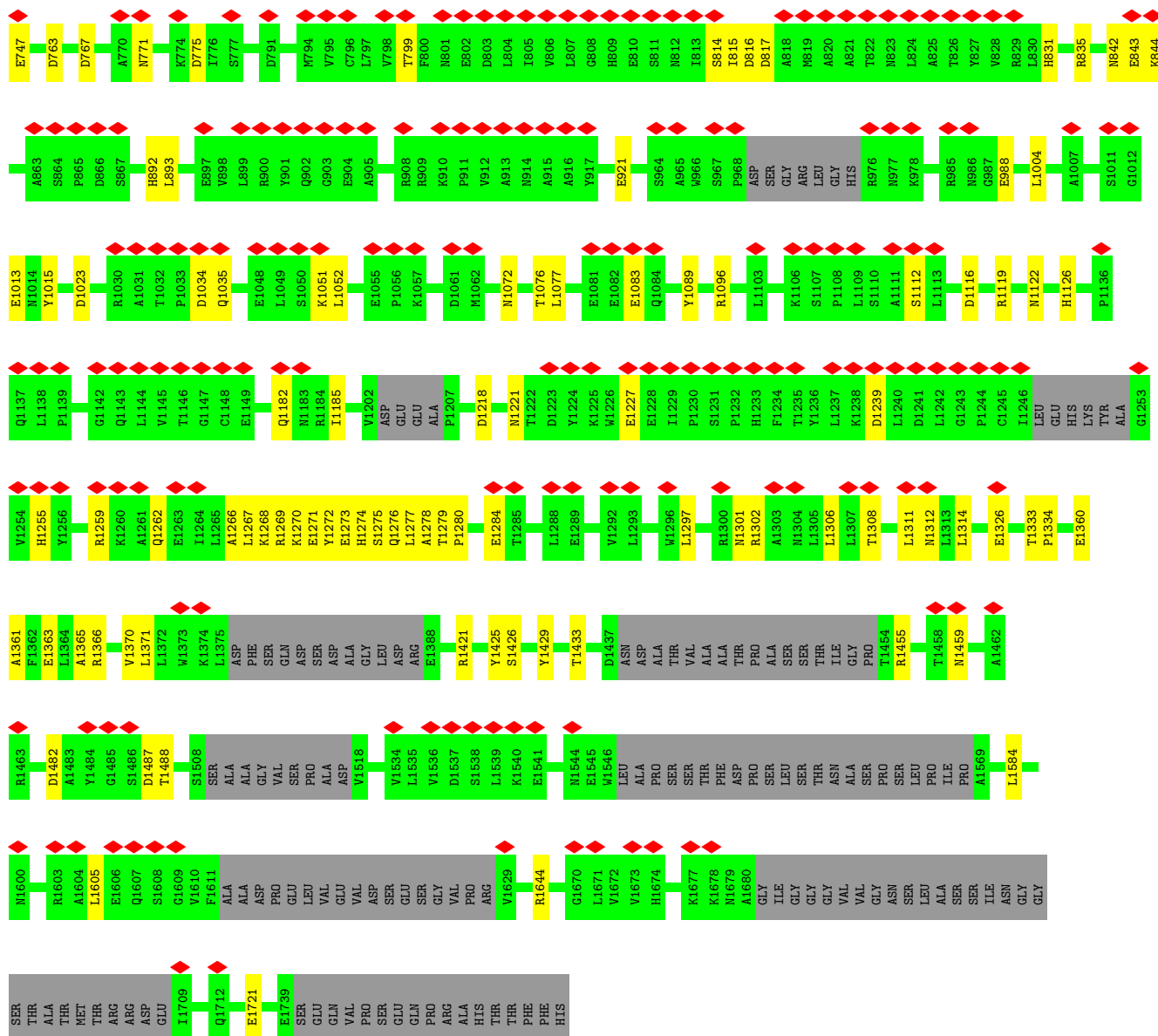
• Molecule 11: NUP205



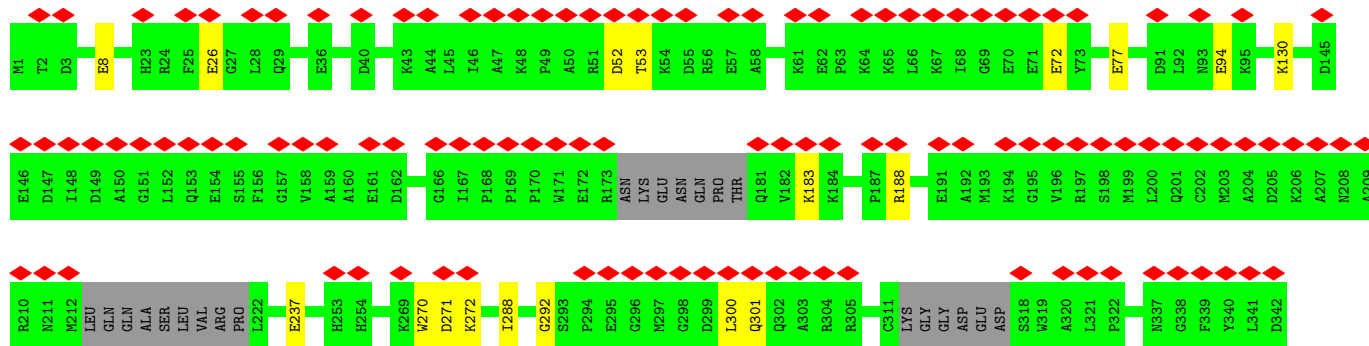
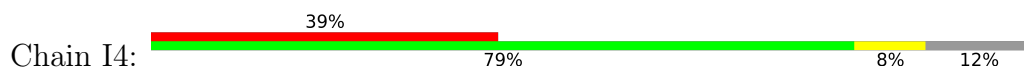


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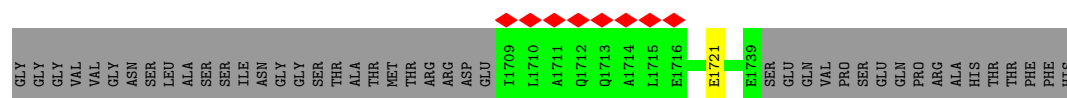
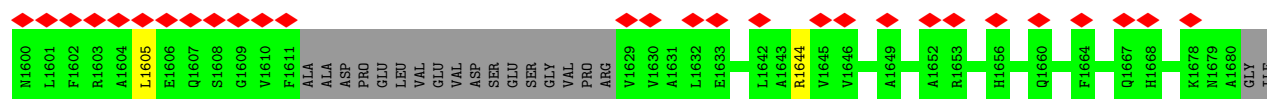
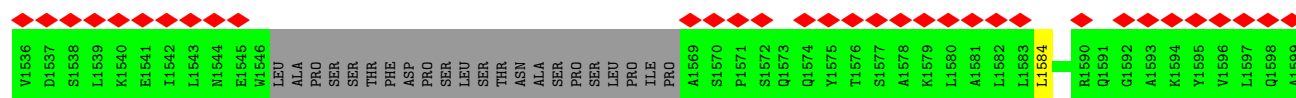




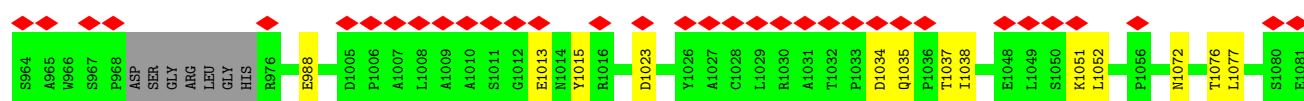
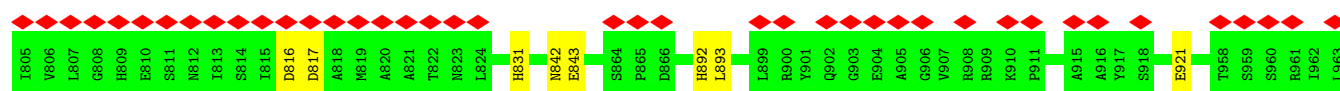
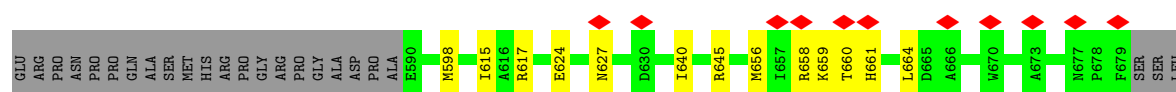
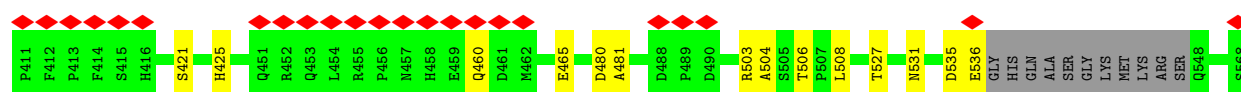
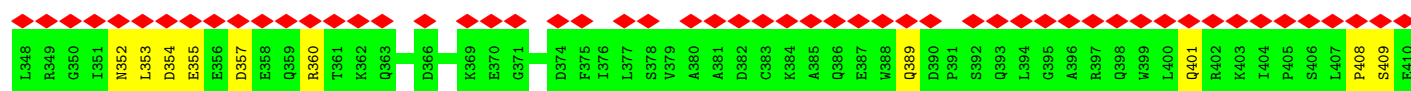
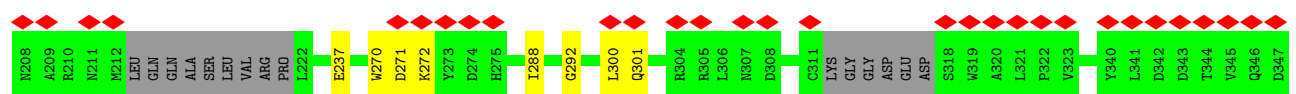
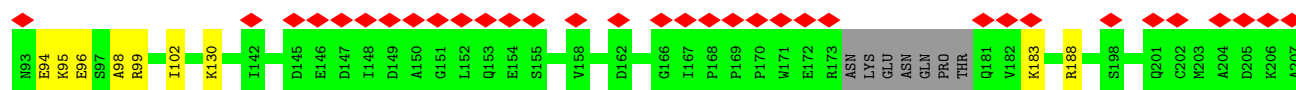
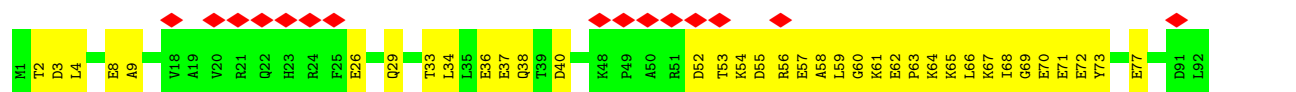
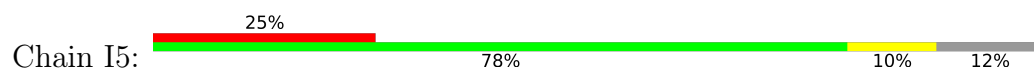
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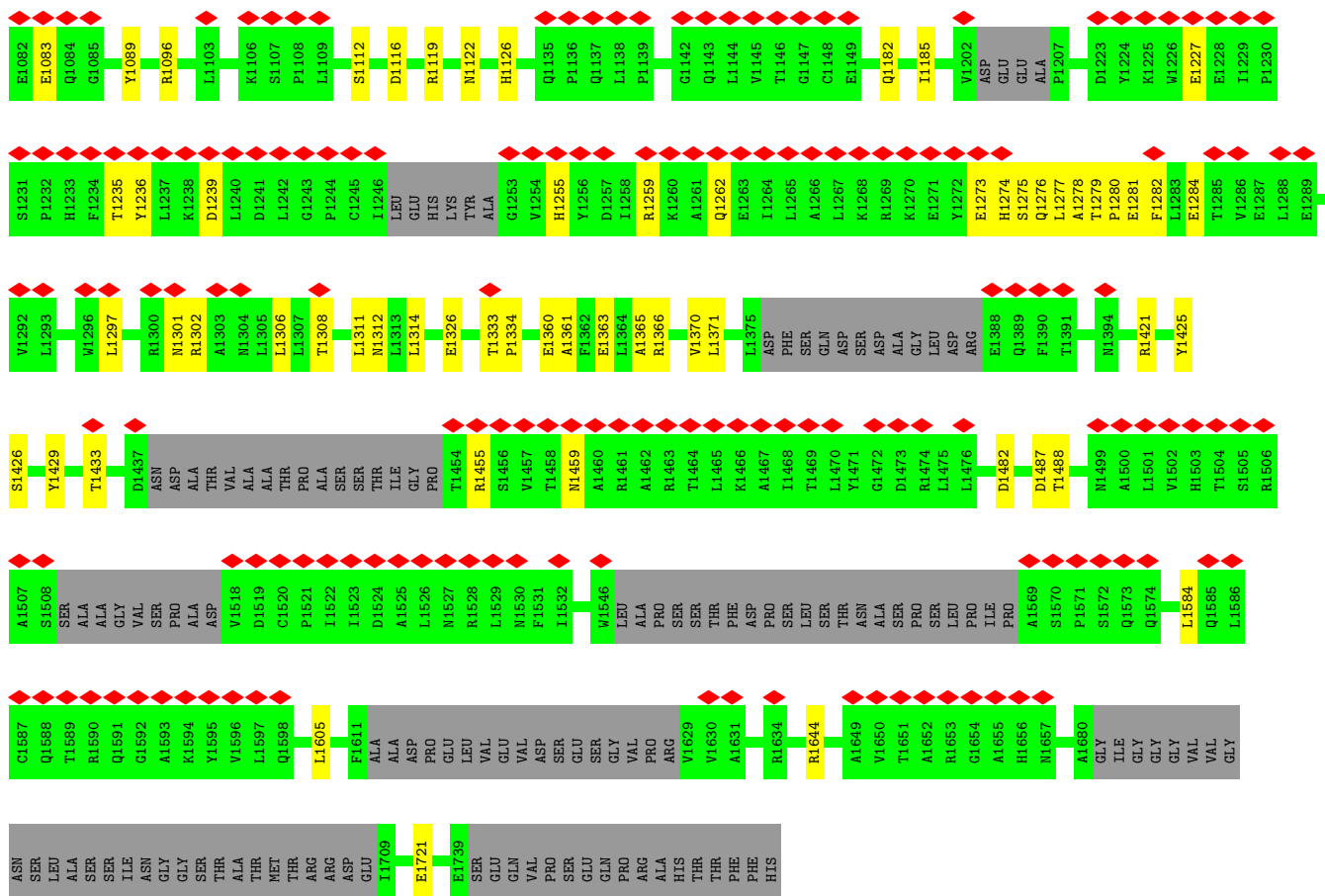


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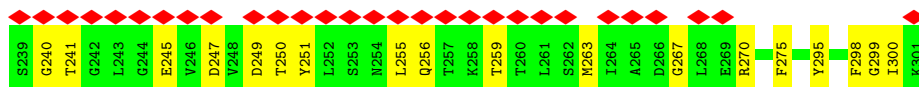


● Molecule 11: NUP205

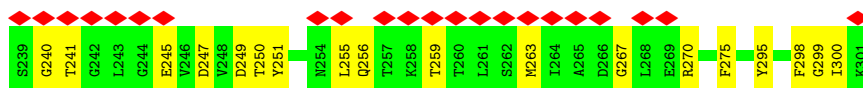
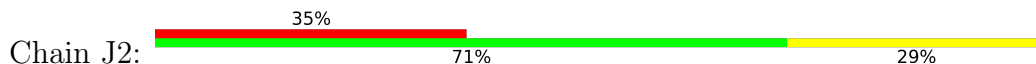




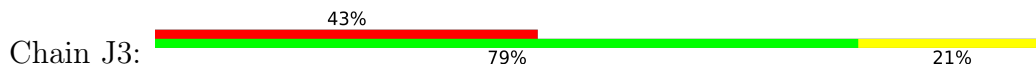
• Molecule 12: NUP93 R2



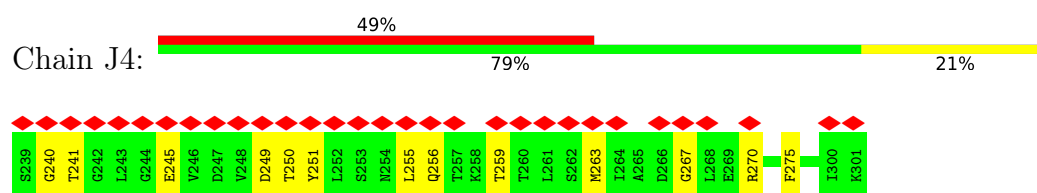
• Molecule 12: NUP93 R2



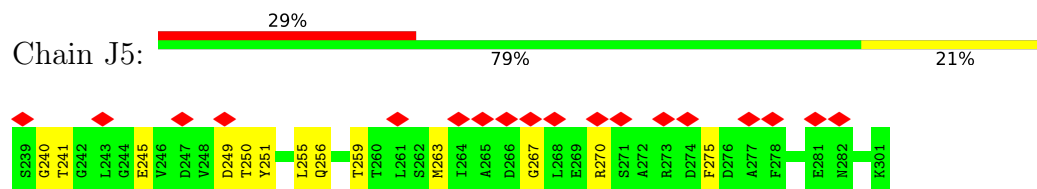
• Molecule 12: NUP93 R2



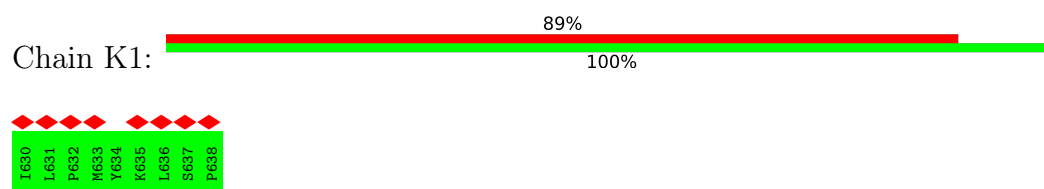
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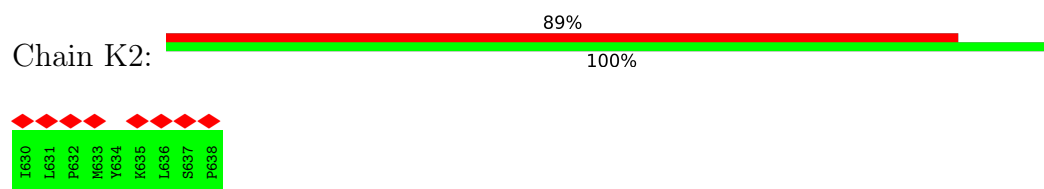
- Molecule 12: NUP93 R2



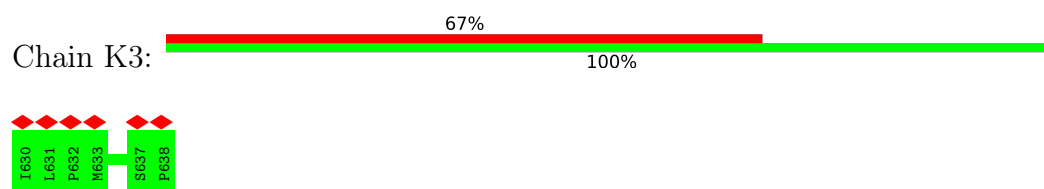
- Molecule 13: NUP98 R1



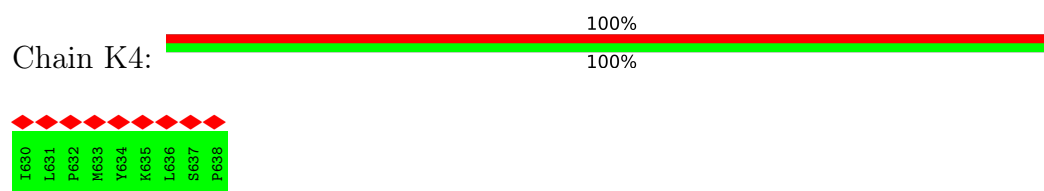
- Molecule 13: NUP98 R1



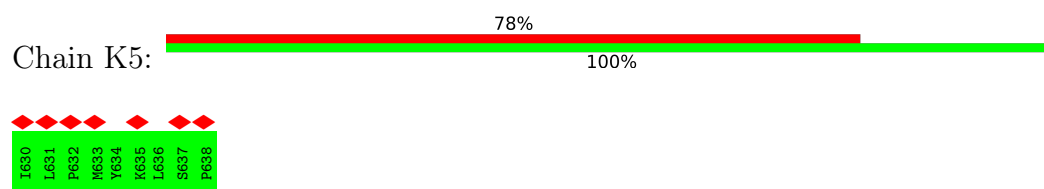
- Molecule 13: NUP98 R1



- Molecule 13: NUP98 R1



- Molecule 13: NUP98 R1

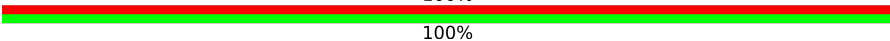


● Molecule 14: NUP53 R1

Chain L1:  100%
100%

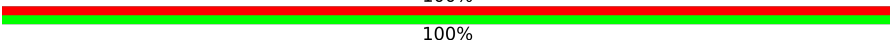


● Molecule 14: NUP53 R1

Chain L2:  100%
100%

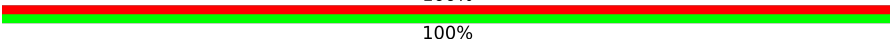


● Molecule 14: NUP53 R1

Chain L3:  100%
100%



● Molecule 14: NUP53 R1

Chain L4:  100%
100%



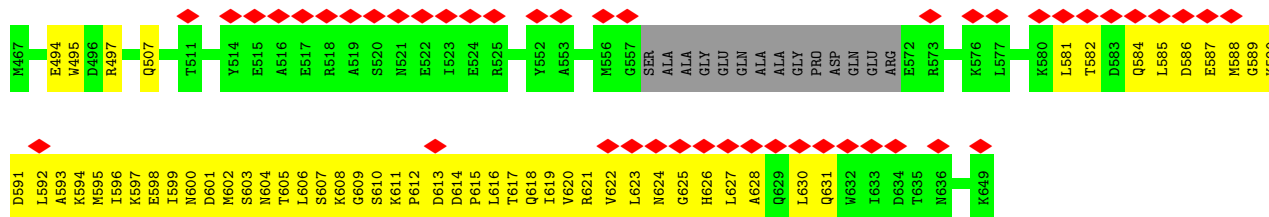
● Molecule 14: NUP53 R1

Chain L5:  50%
100%



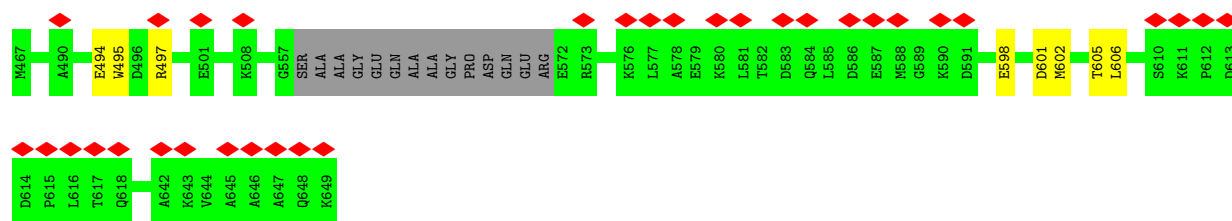
● Molecule 15: NUP62

Chain M1:  25%
63% 29% 8%

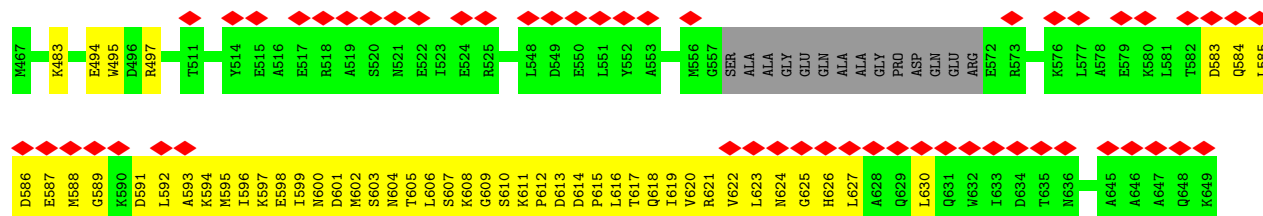


● Molecule 15: NUP62

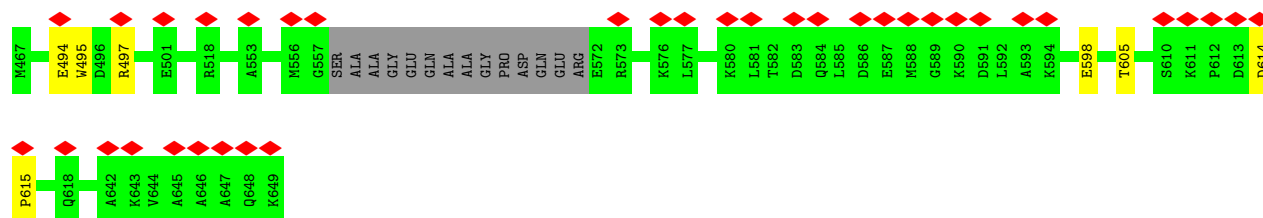
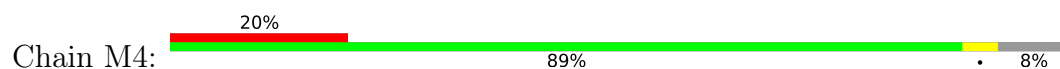
Chain M2:  18%
88% 8%



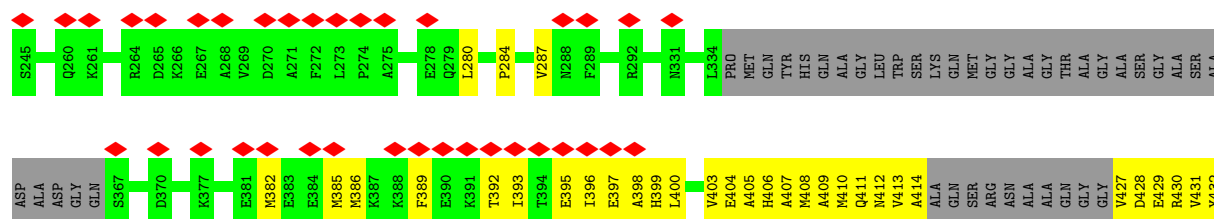
• Molecule 15: NUP62



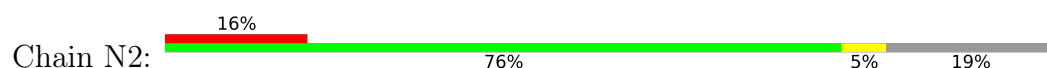
• Molecule 15: NUP62

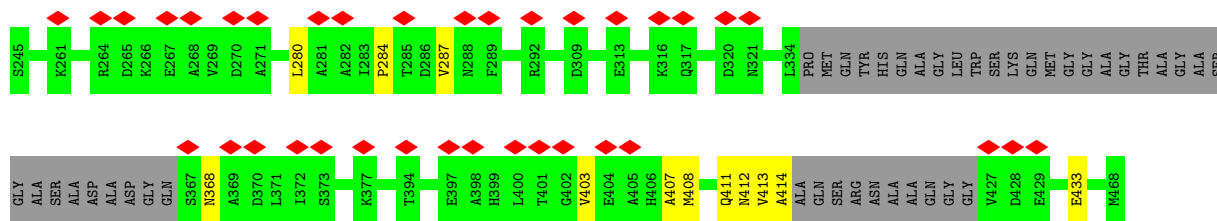


• Molecule 16: NUP58

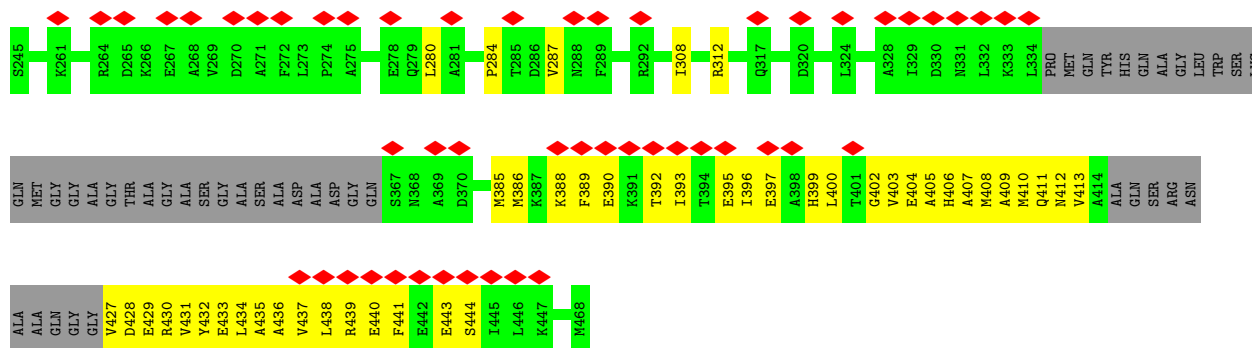


• Molecule 16: NUP58

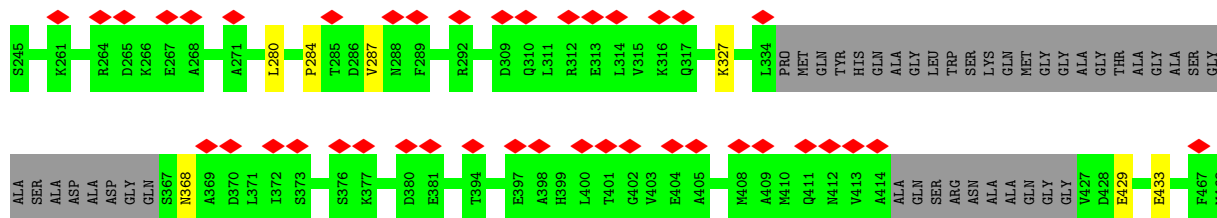
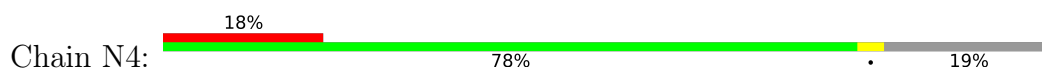




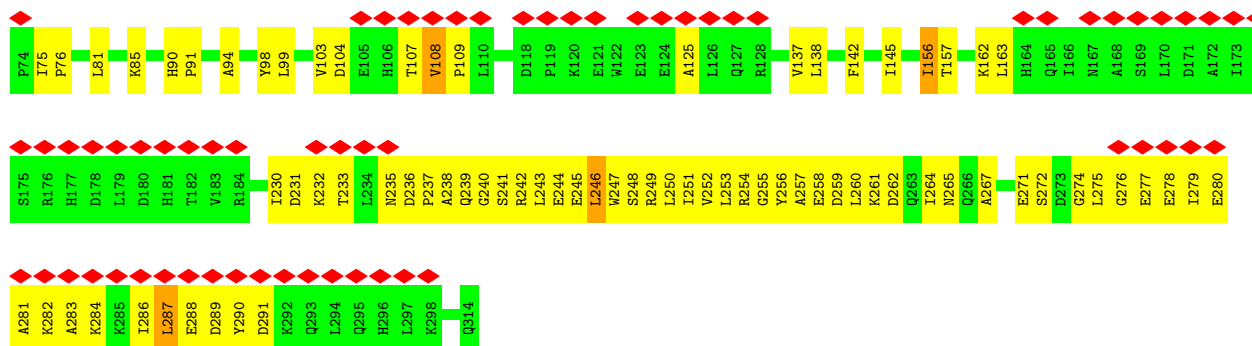
• Molecule 16: NUP58



• Molecule 16: NUP58

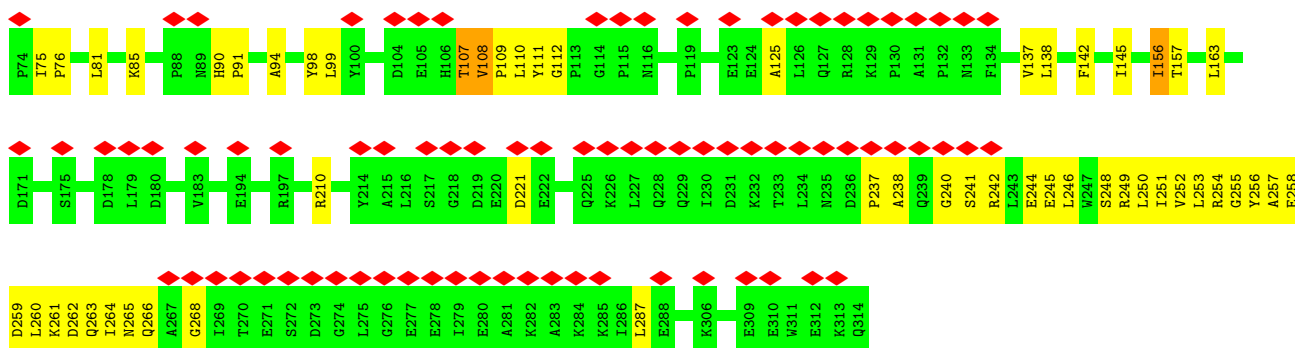


• Molecule 17: NUP54



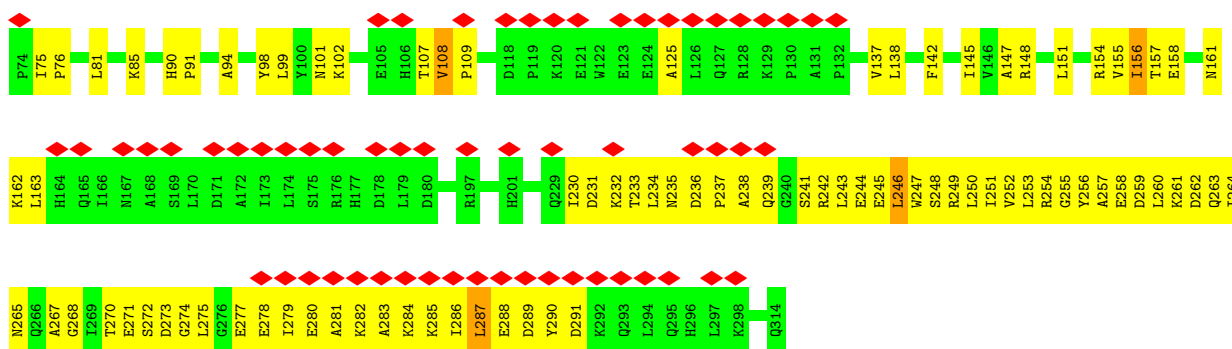
• Molecule 17: NUP54

Chain O2: 



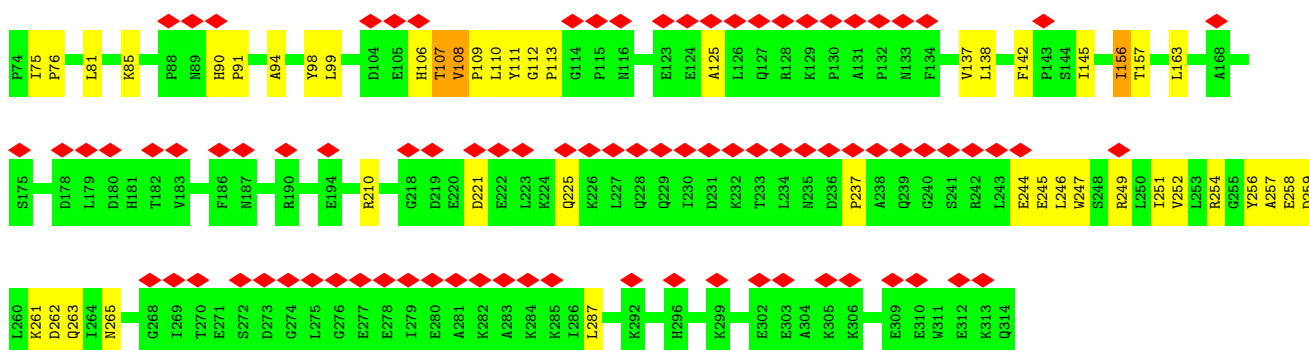
• Molecule 17: NUP54

Chain O3: 



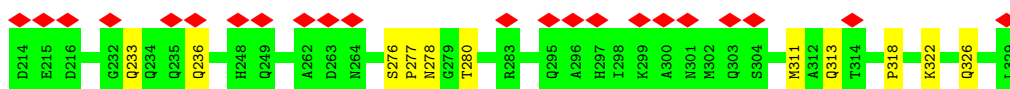
• Molecule 17: NUP54

Chain O4: 

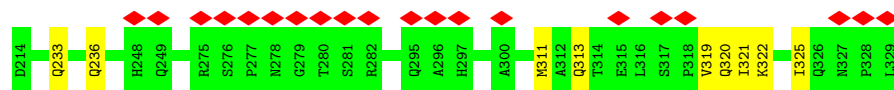


• Molecule 18: NUP54 Ferredoxin-like domain

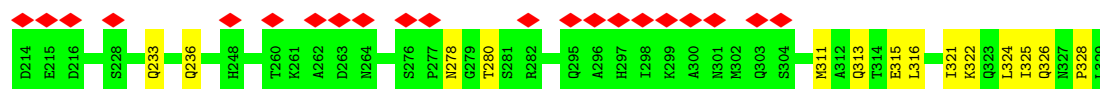
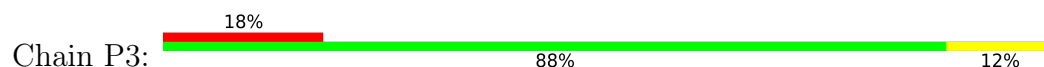
Chain P1: 



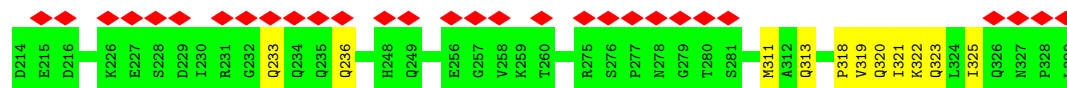
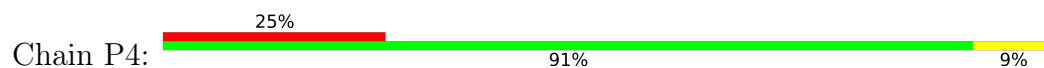
- Molecule 18: NUP54 Ferredoxin-like domain



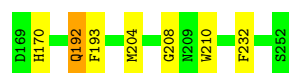
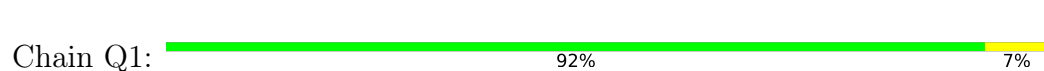
- Molecule 18: NUP54 Ferredoxin-like domain



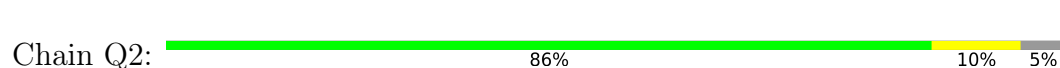
- Molecule 18: NUP54 Ferredoxin-like domain



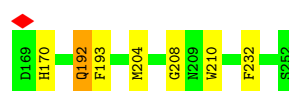
- Molecule 19: NUP53 RRM



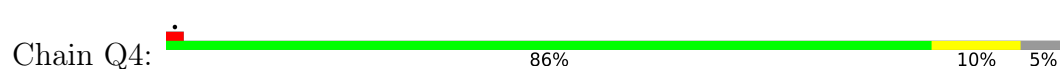
- Molecule 19: NUP53 RRM

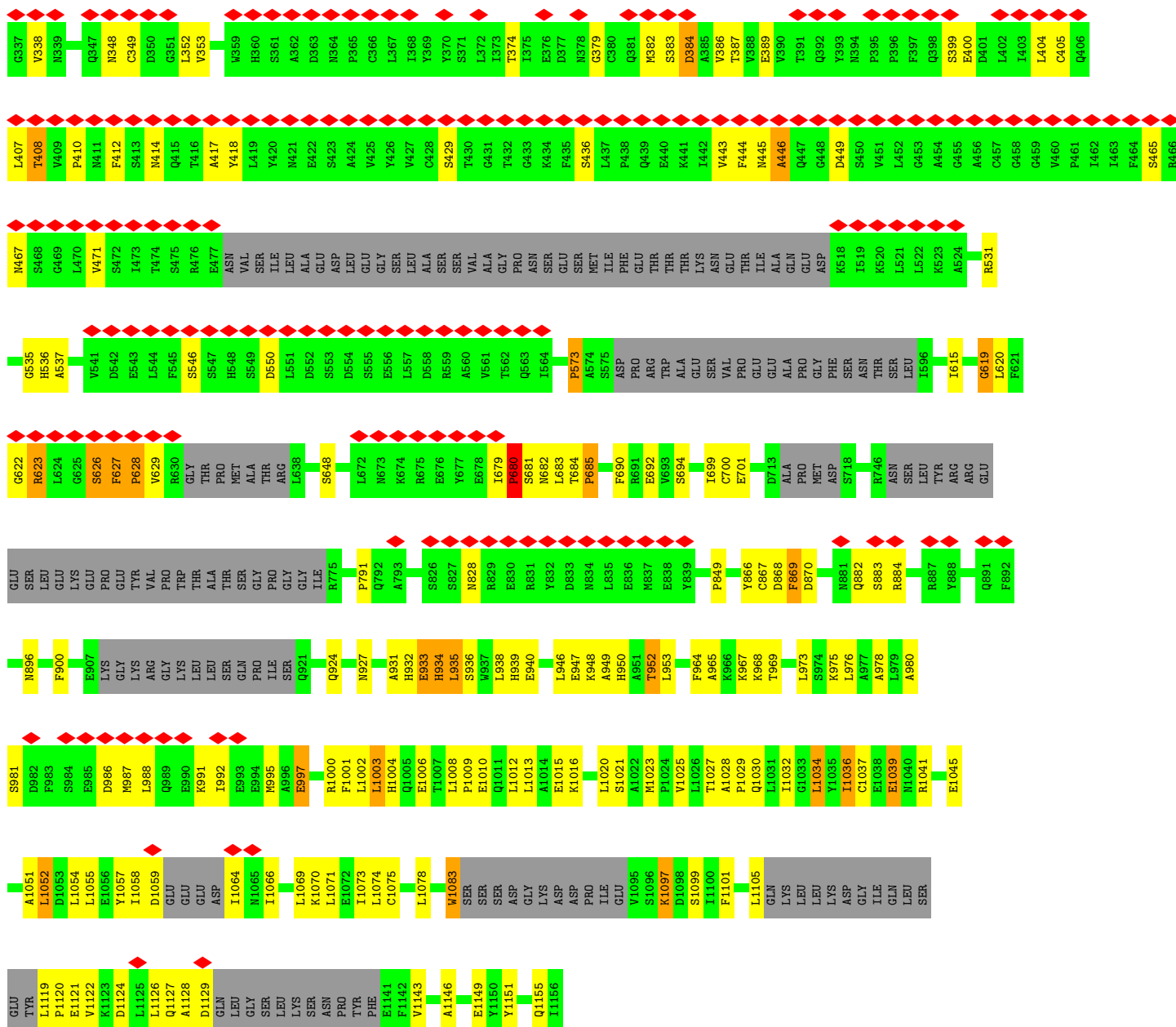


- Molecule 19: NUP53 RRM

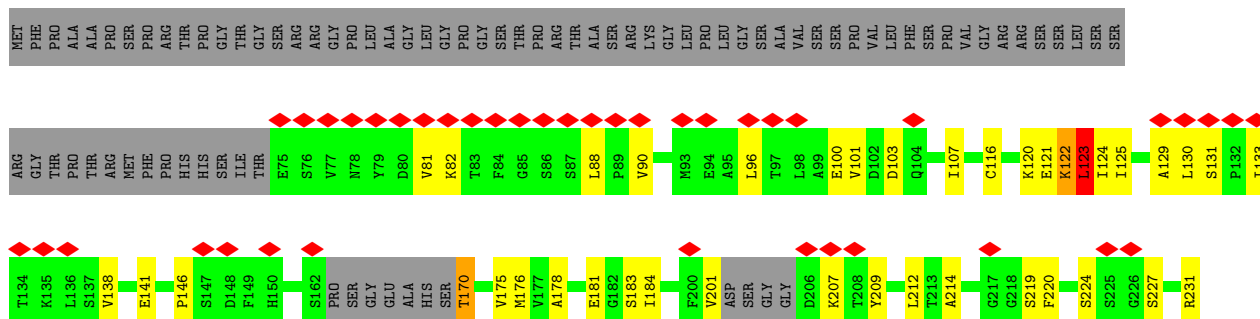


- Molecule 19: NUP53 RRM



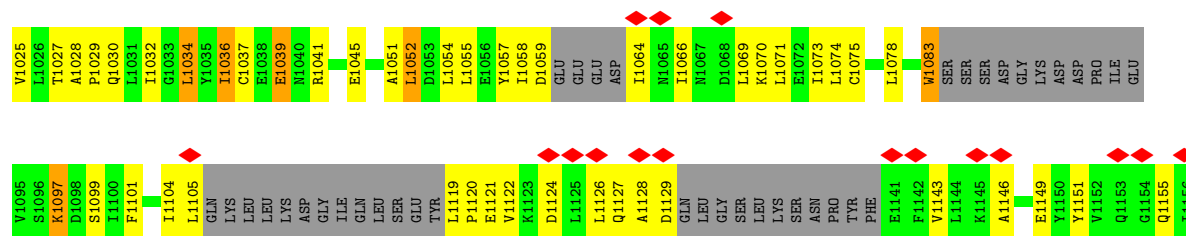


• Molecule 21: NUP133

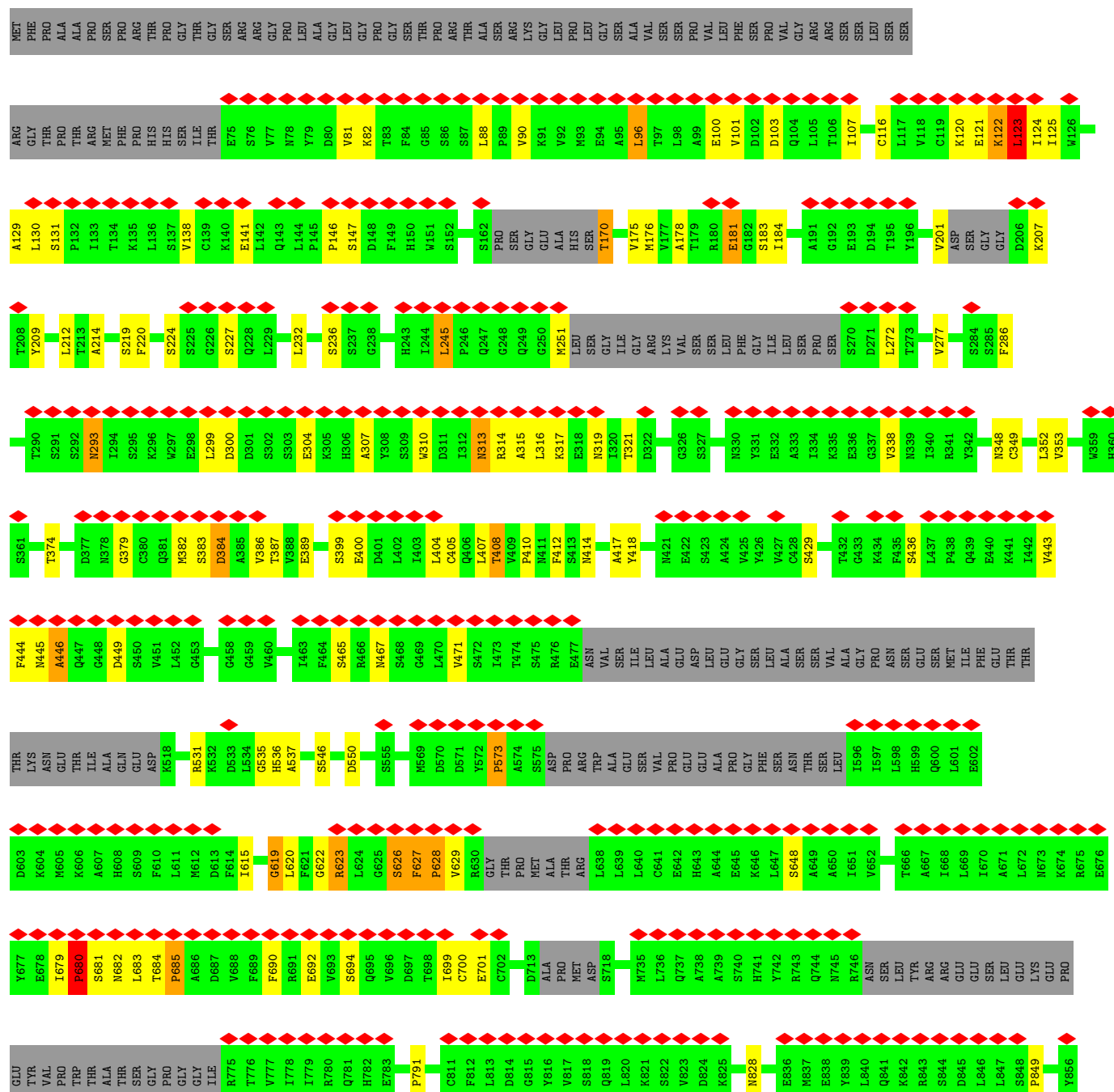


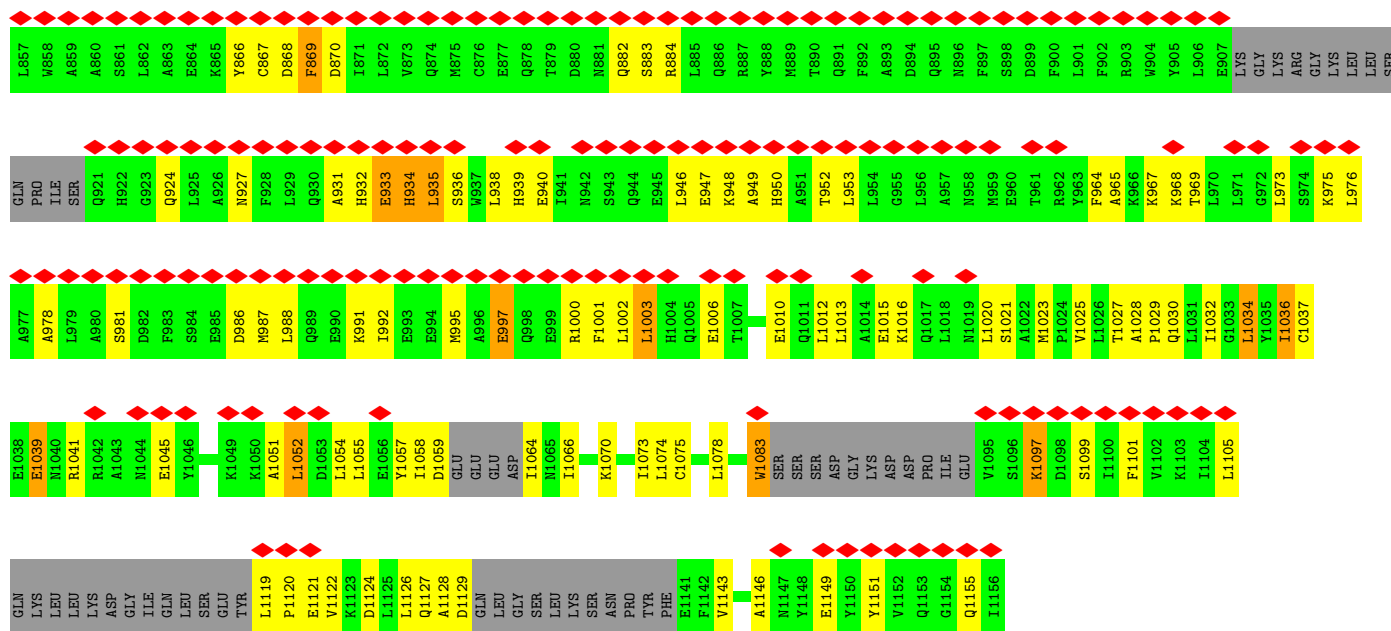






• Molecule 21: NUP133

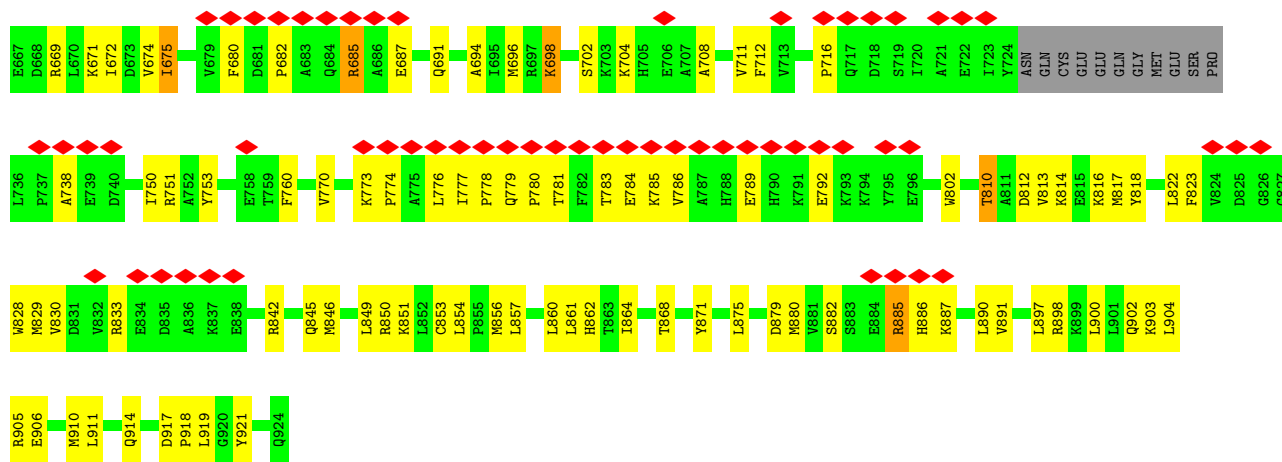




• Molecule 22: NUP107 CTD



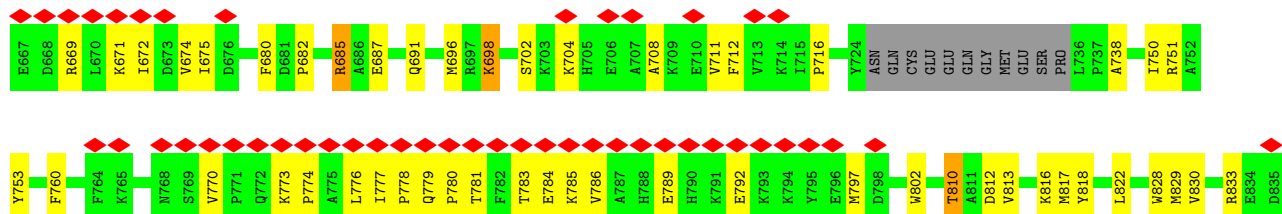
Chain T1:

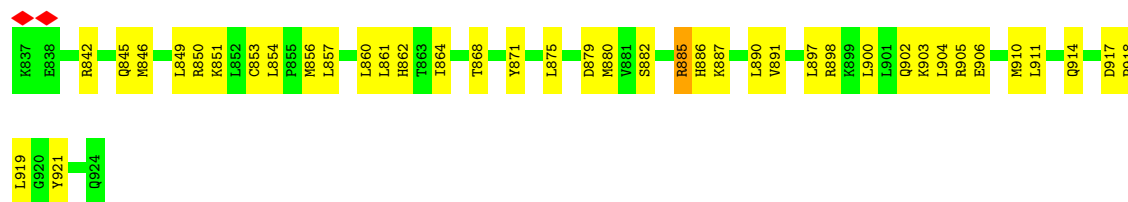


• Molecule 22: NUP107 CTD

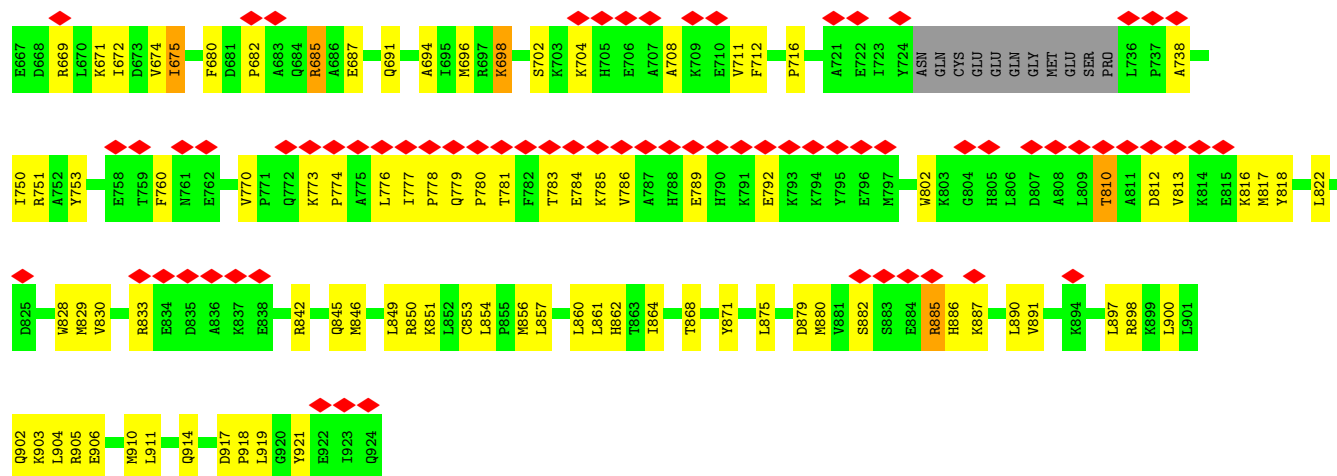


Chain T2:

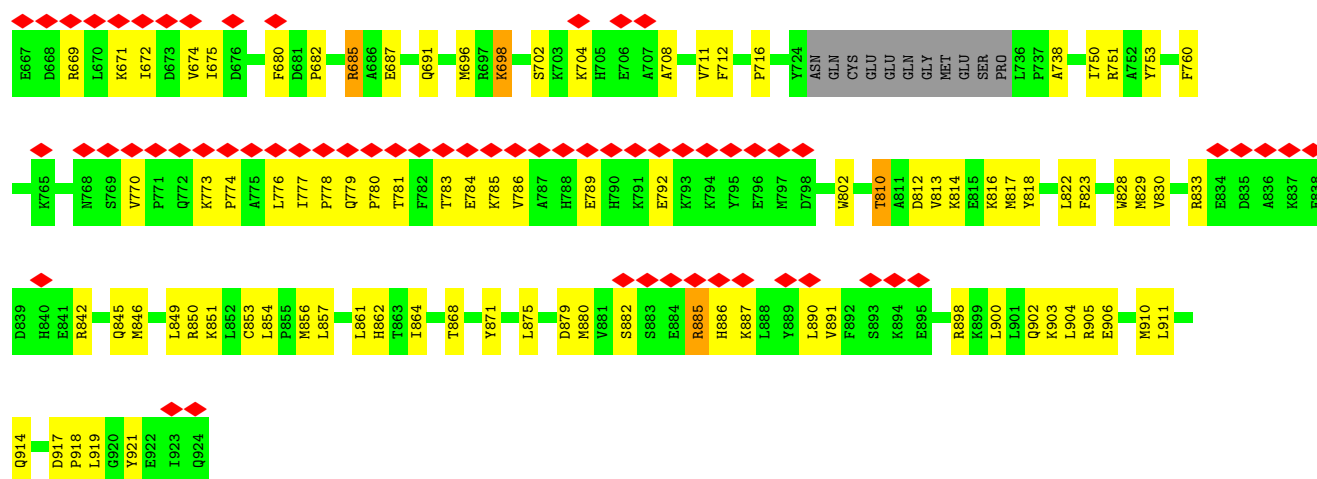




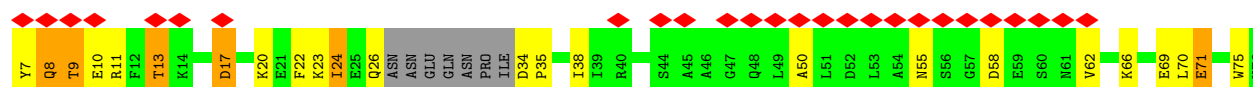
• Molecule 22: NUP107 CTD

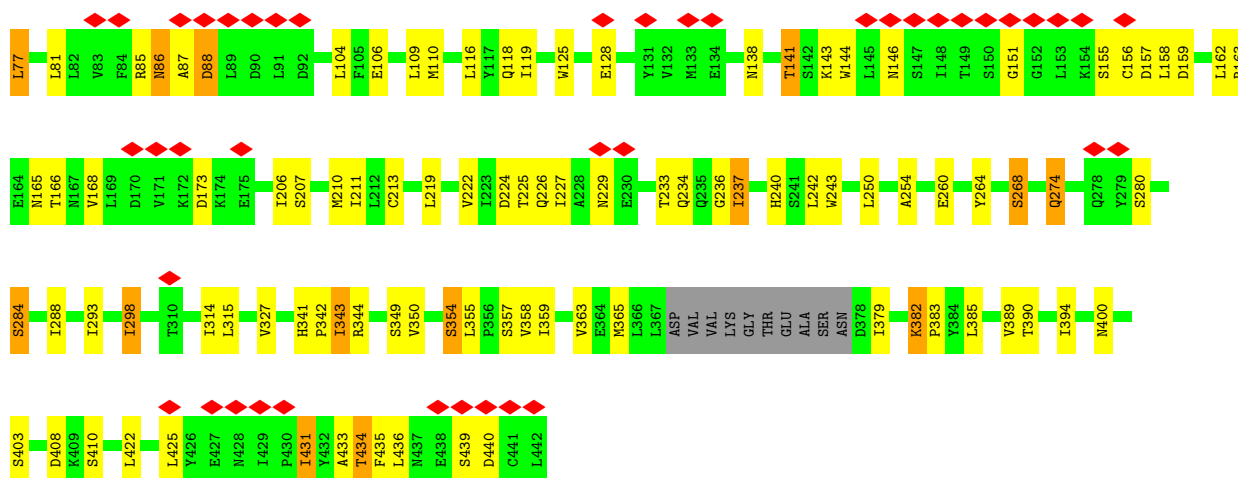


• Molecule 22: NUP107 CTD

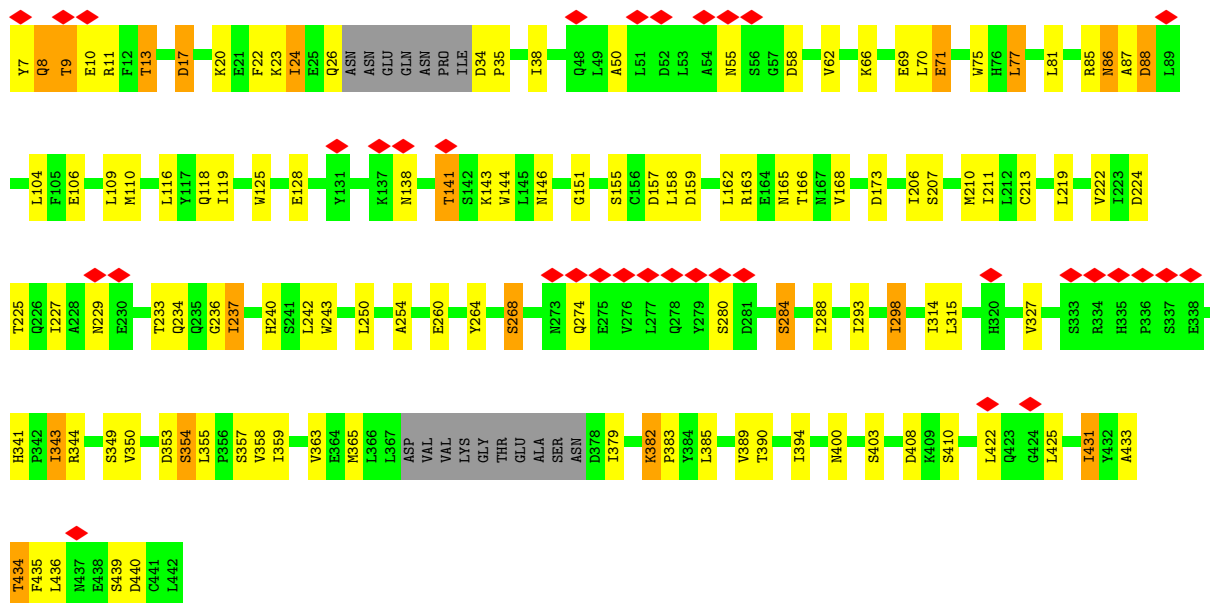


• Molecule 23: NUP107 NTD

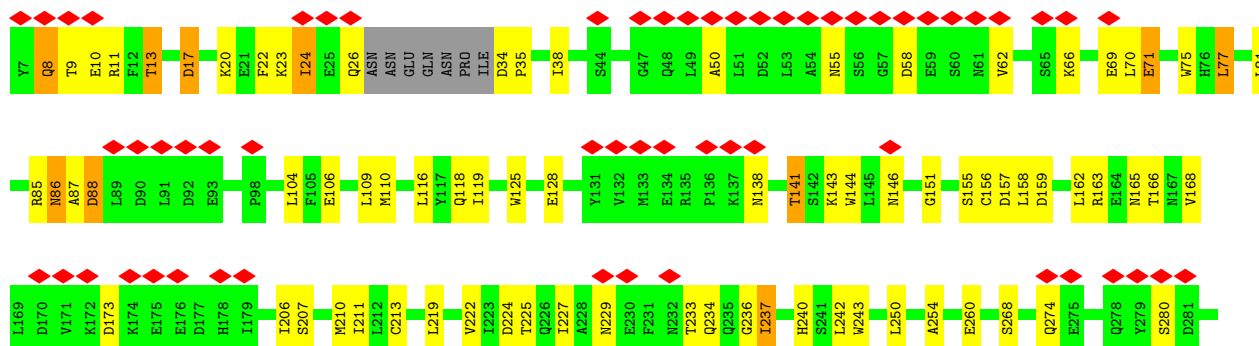


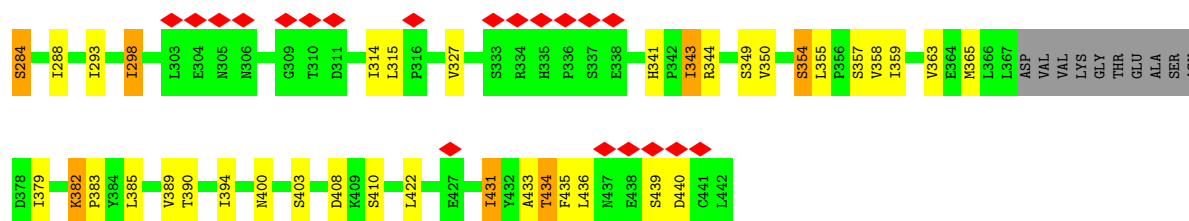


• Molecule 23: NUP107 NTD

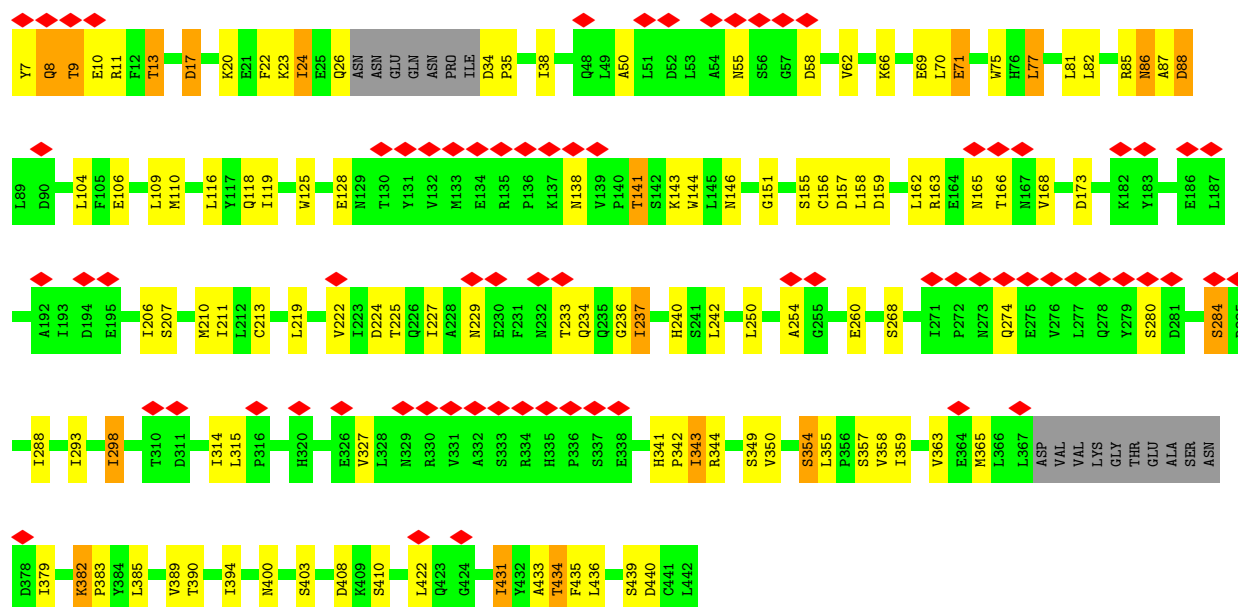


• Molecule 23: NUP107 NTD

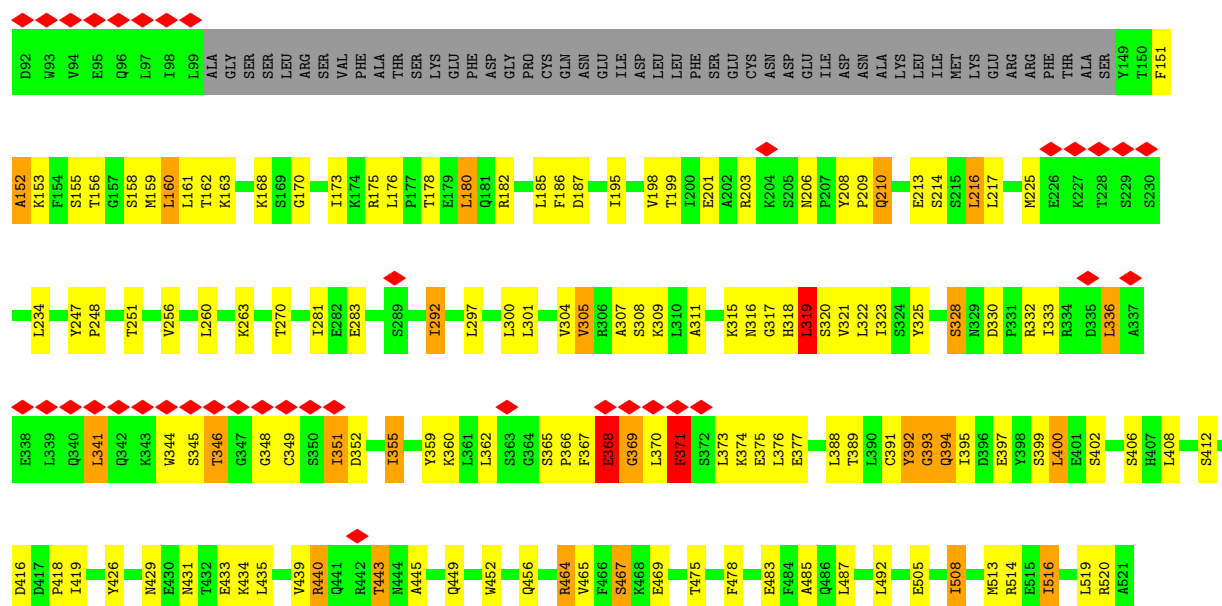


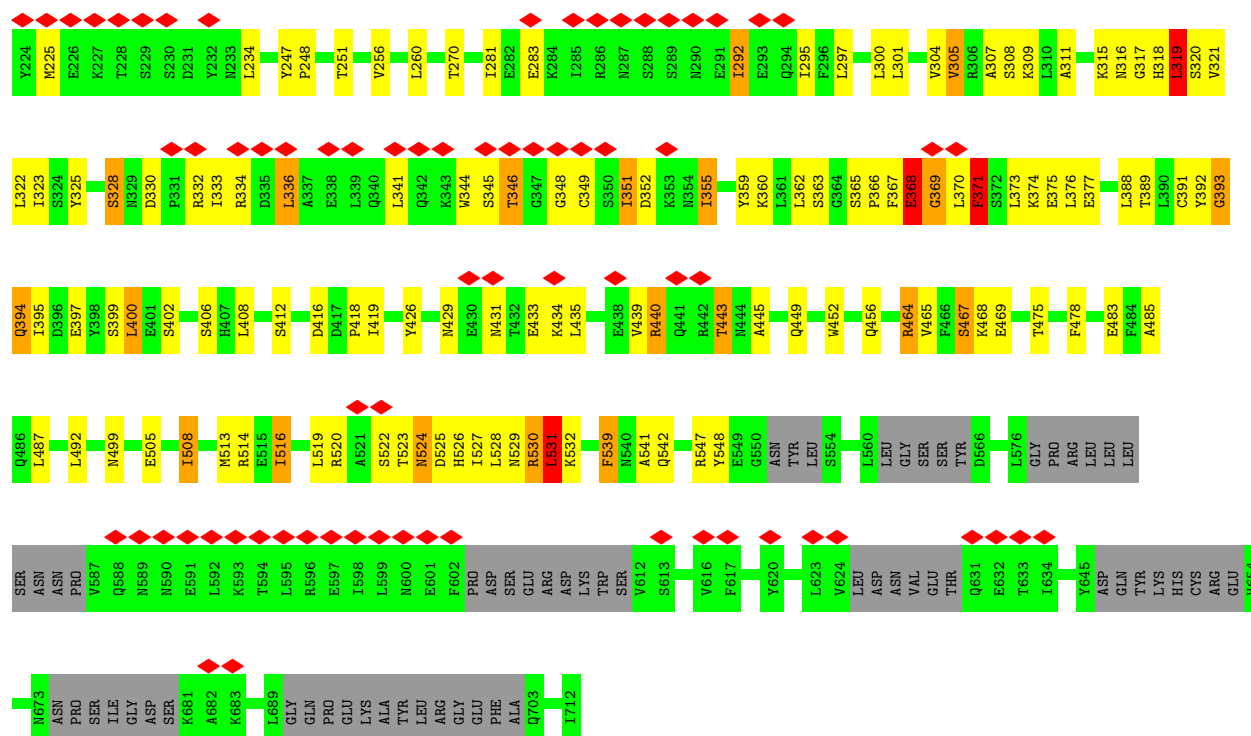


• Molecule 23: NUP107 NTD

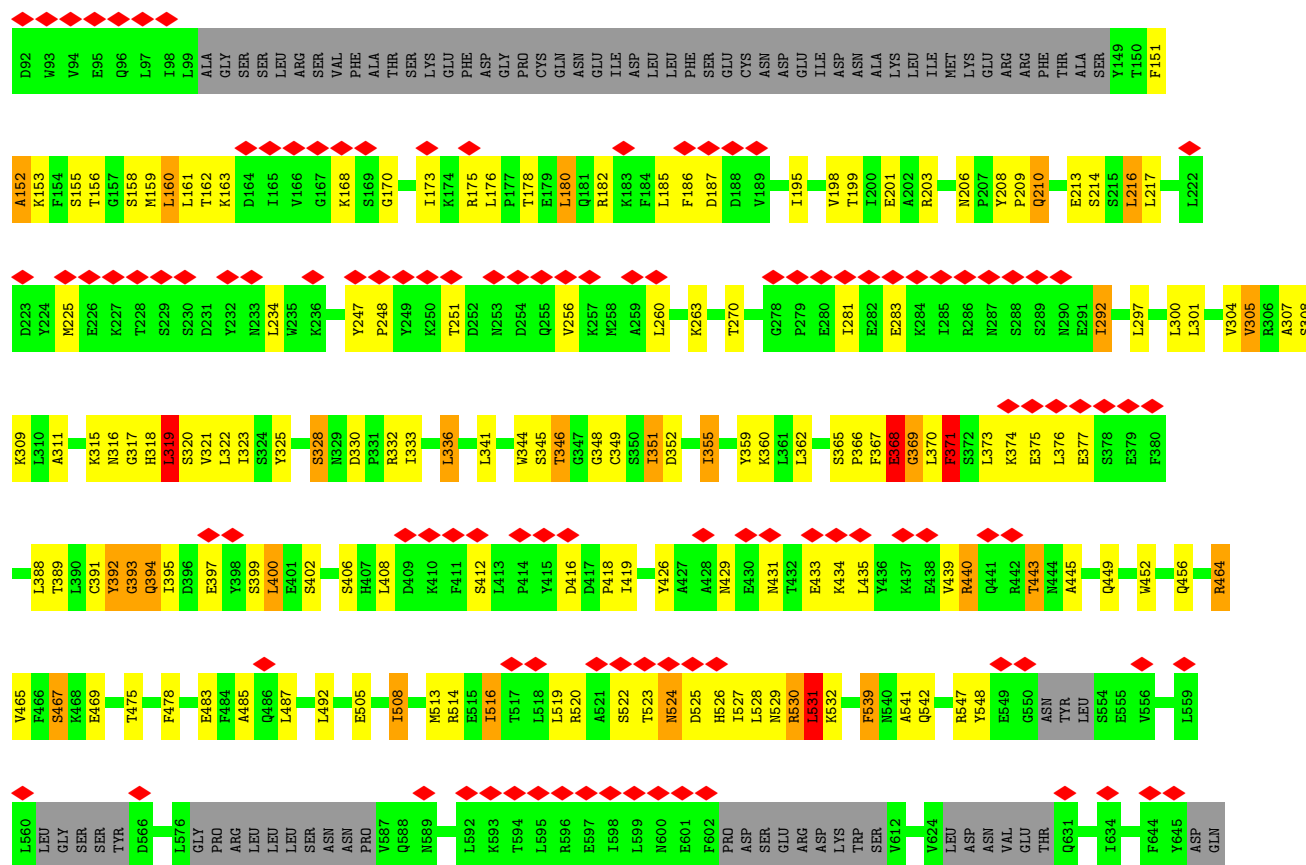


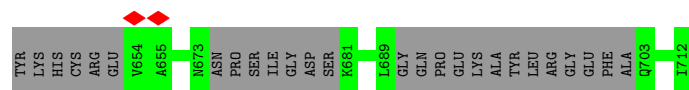
• Molecule 24: NUP96



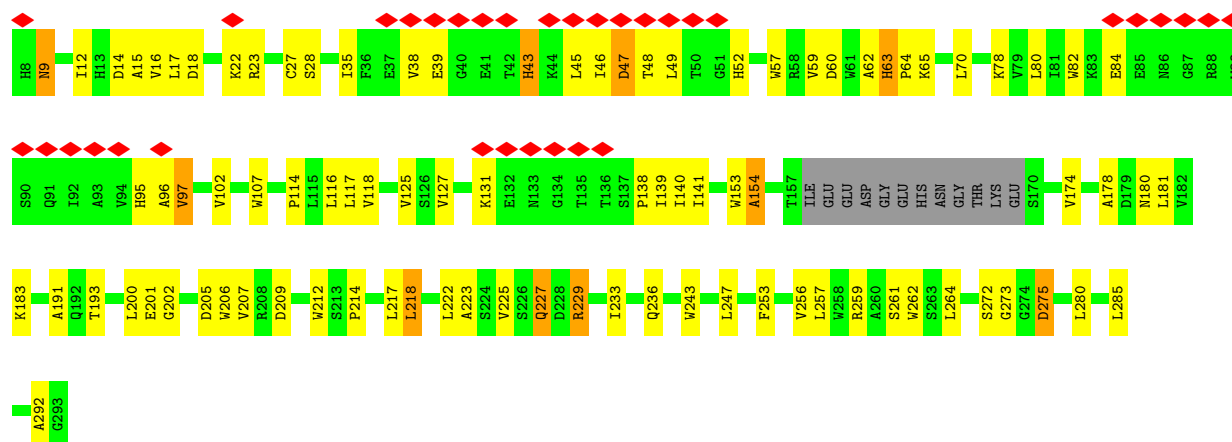


• Molecule 24: NUP96

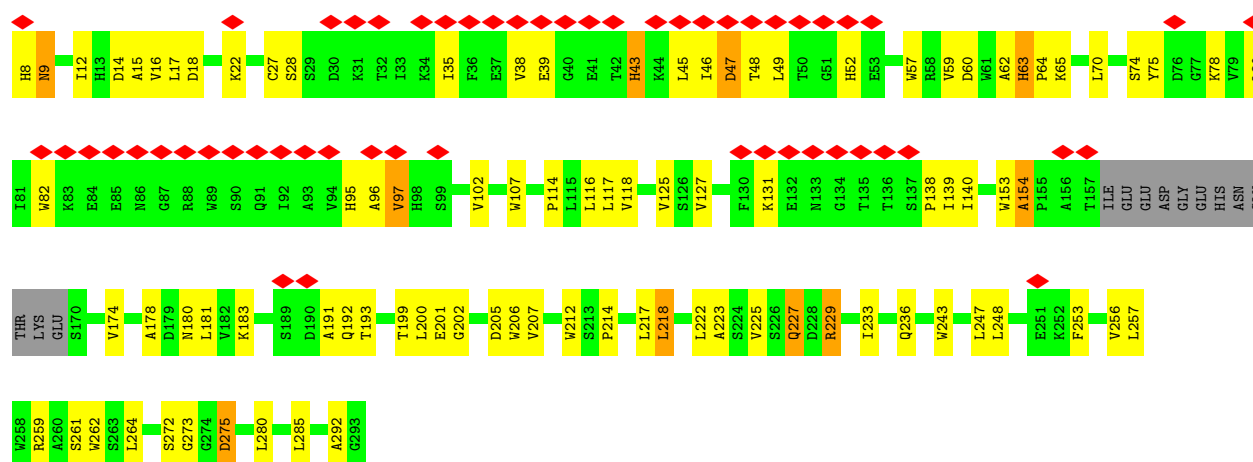




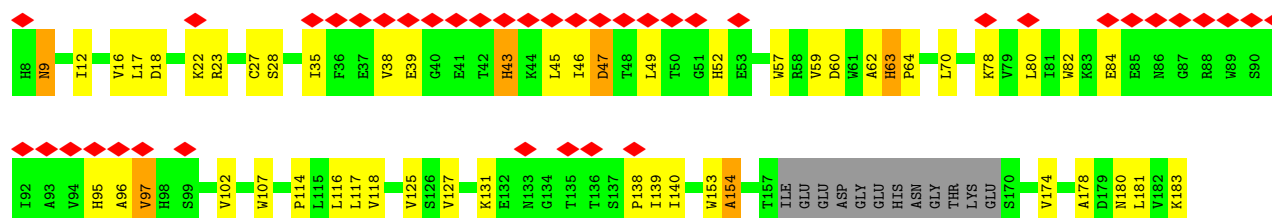
• Molecule 25: SEC13

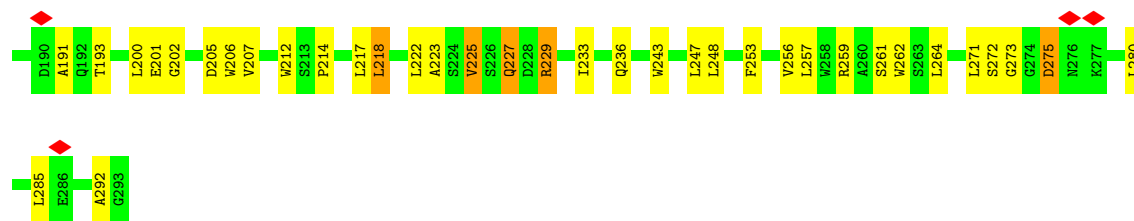


• Molecule 25: SEC13

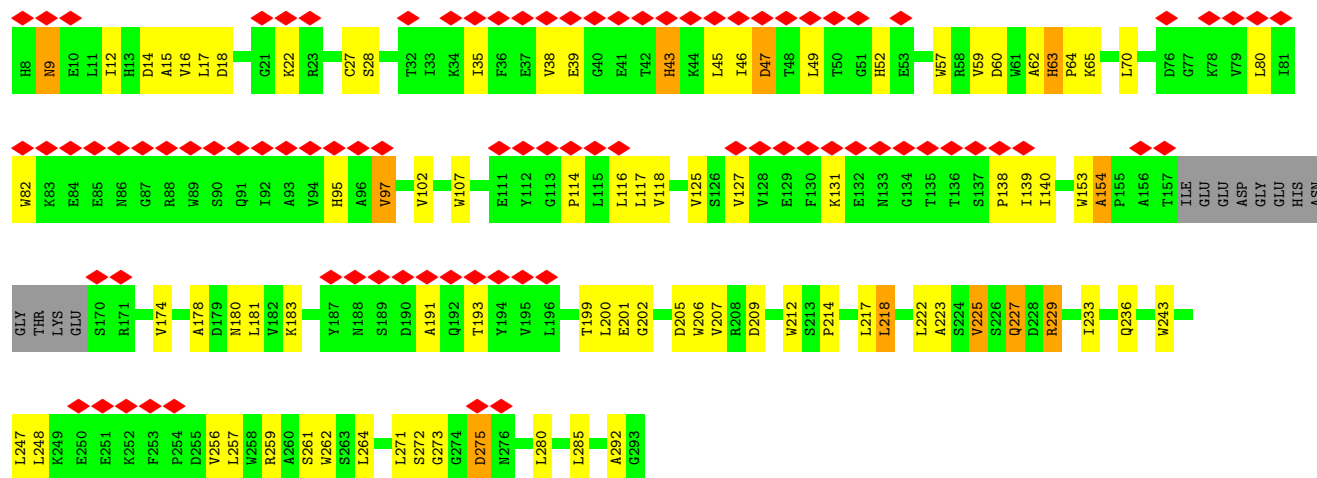


• Molecule 25: SEC13

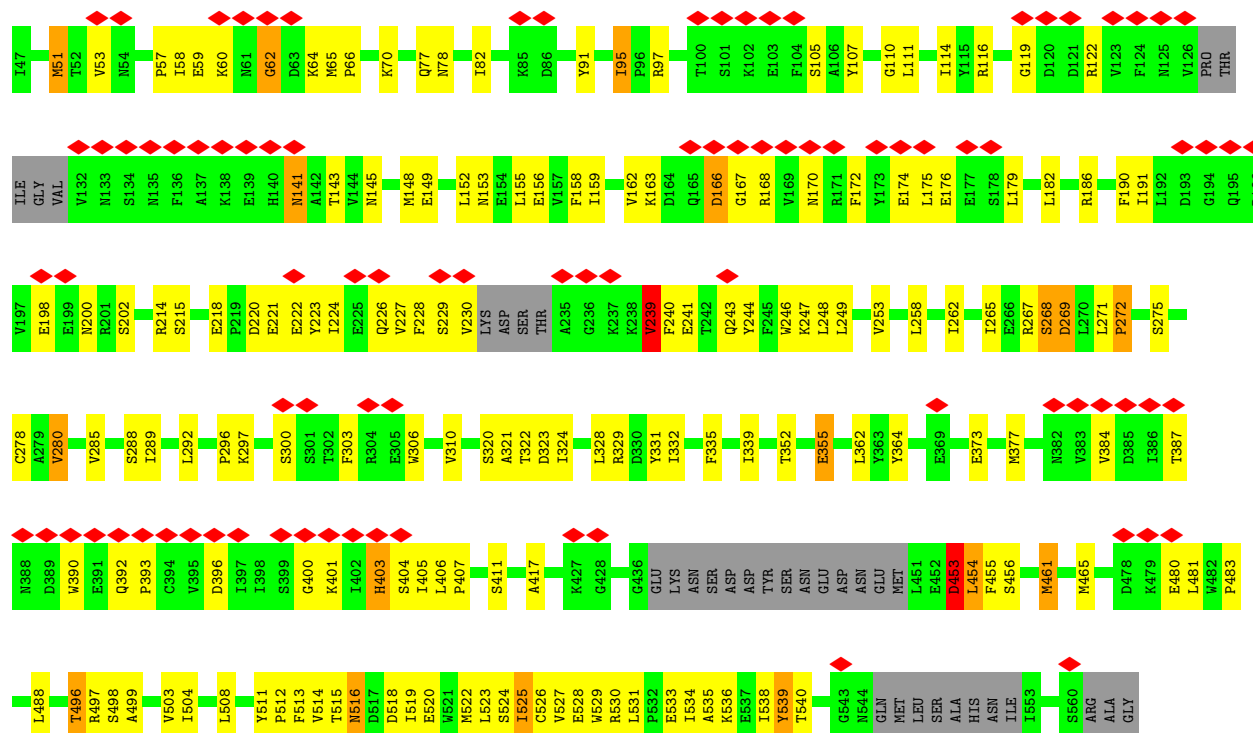


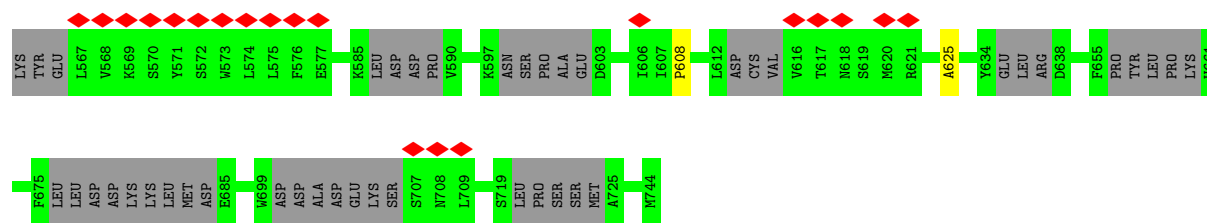


• Molecule 25: SEC13

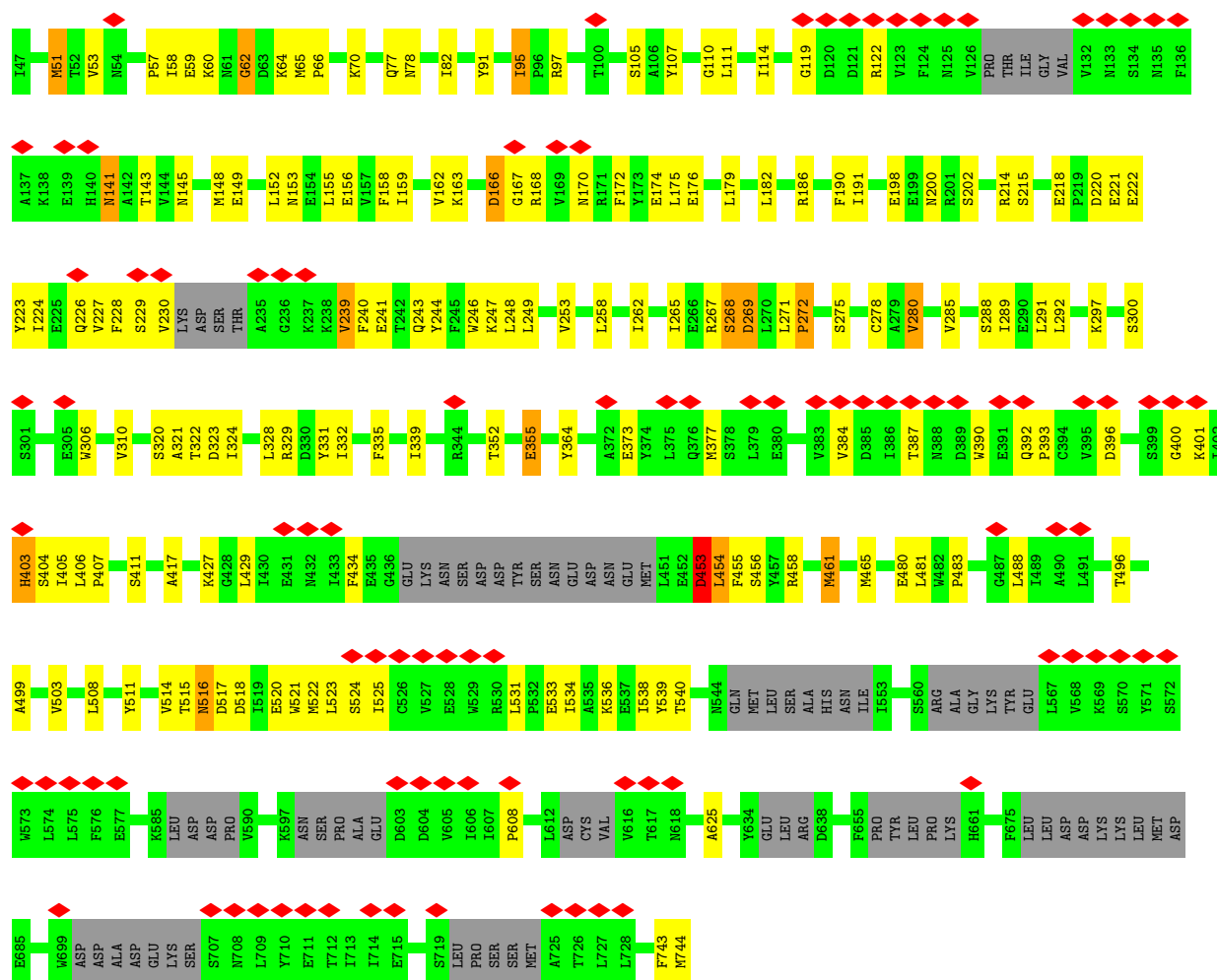


• Molecule 26: NUP75

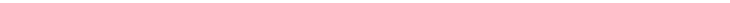


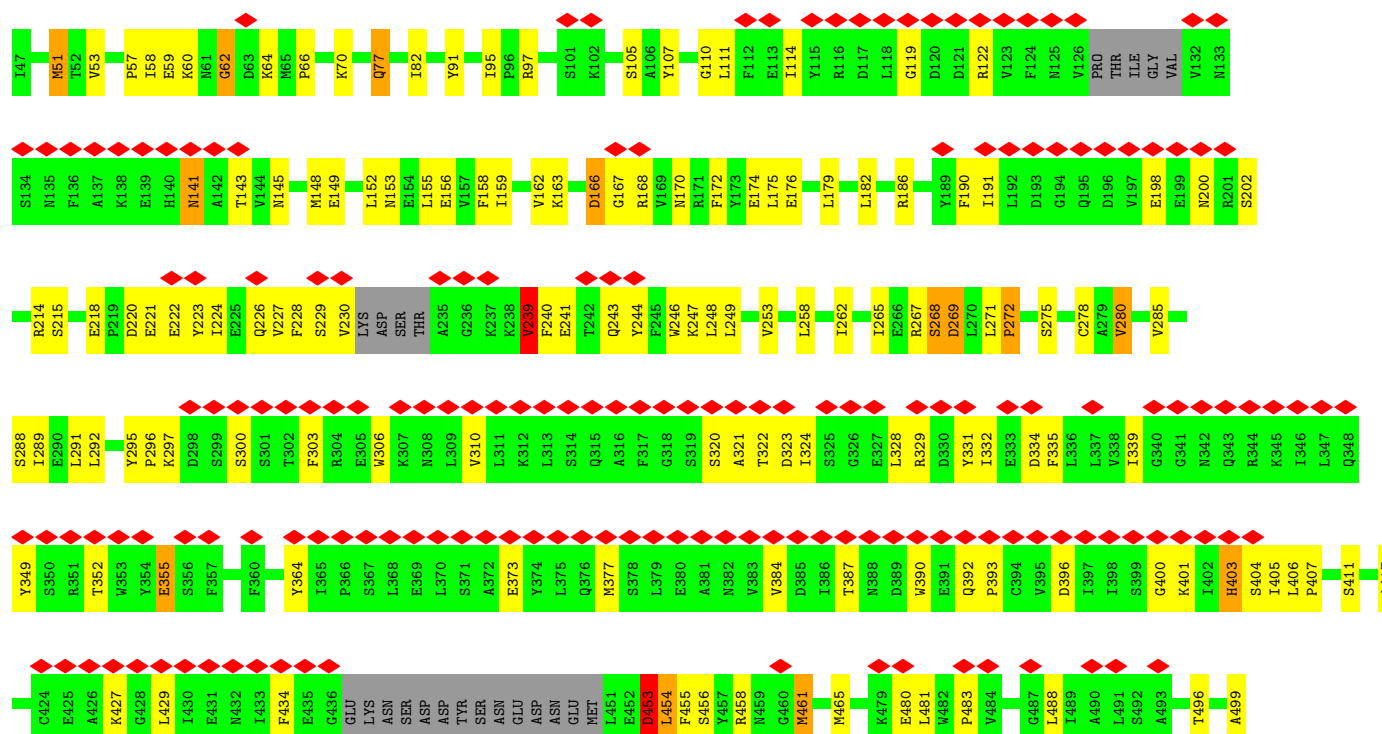


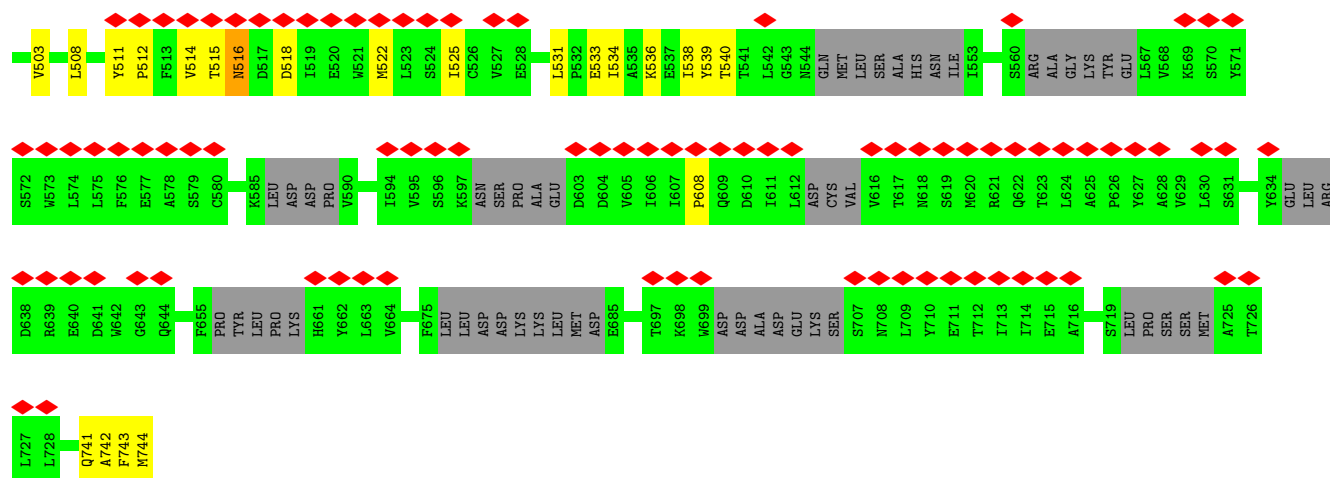
• Molecule 26: NUP75



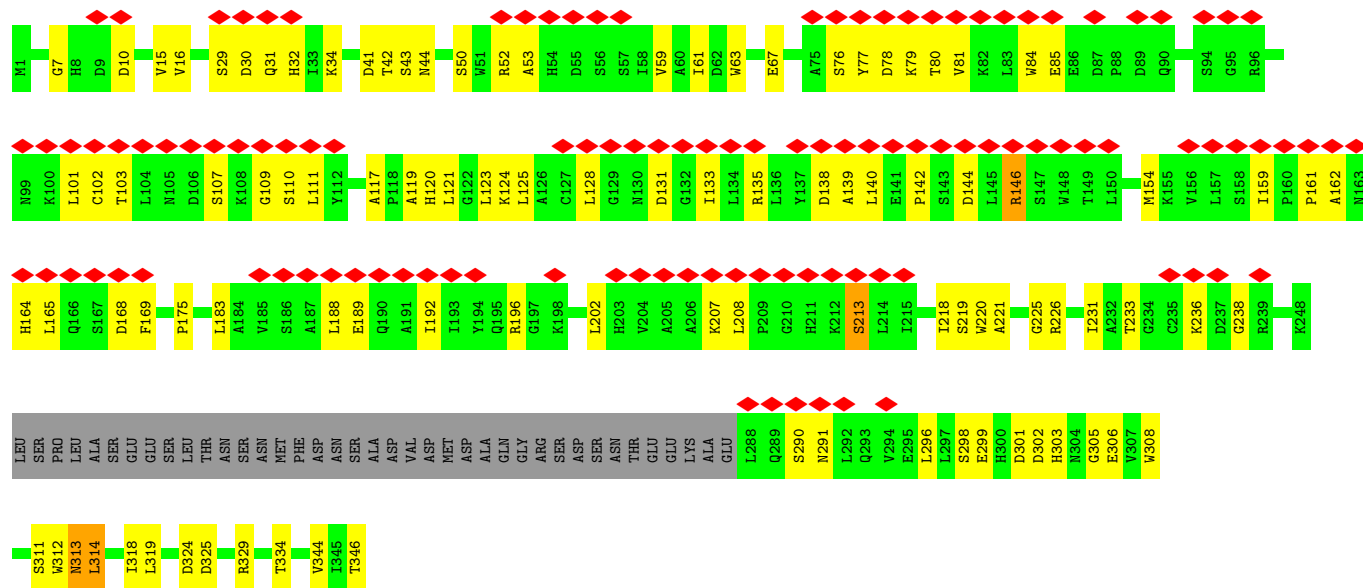


Chain X4:  37% 65% 22% 11%

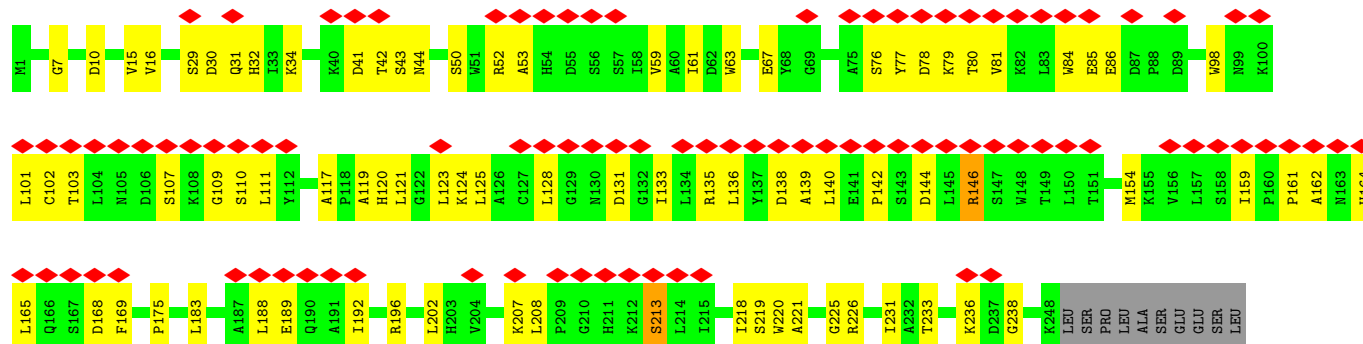


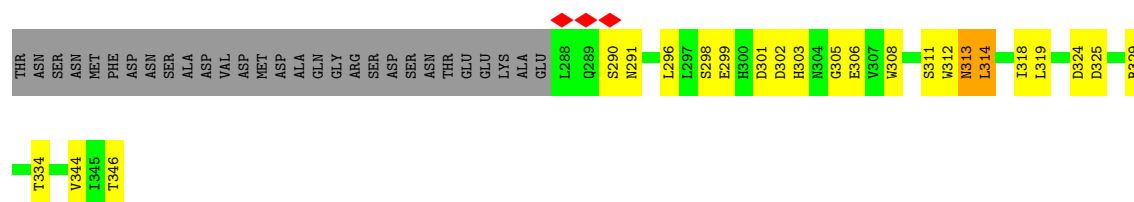


• Molecule 27: SEH1

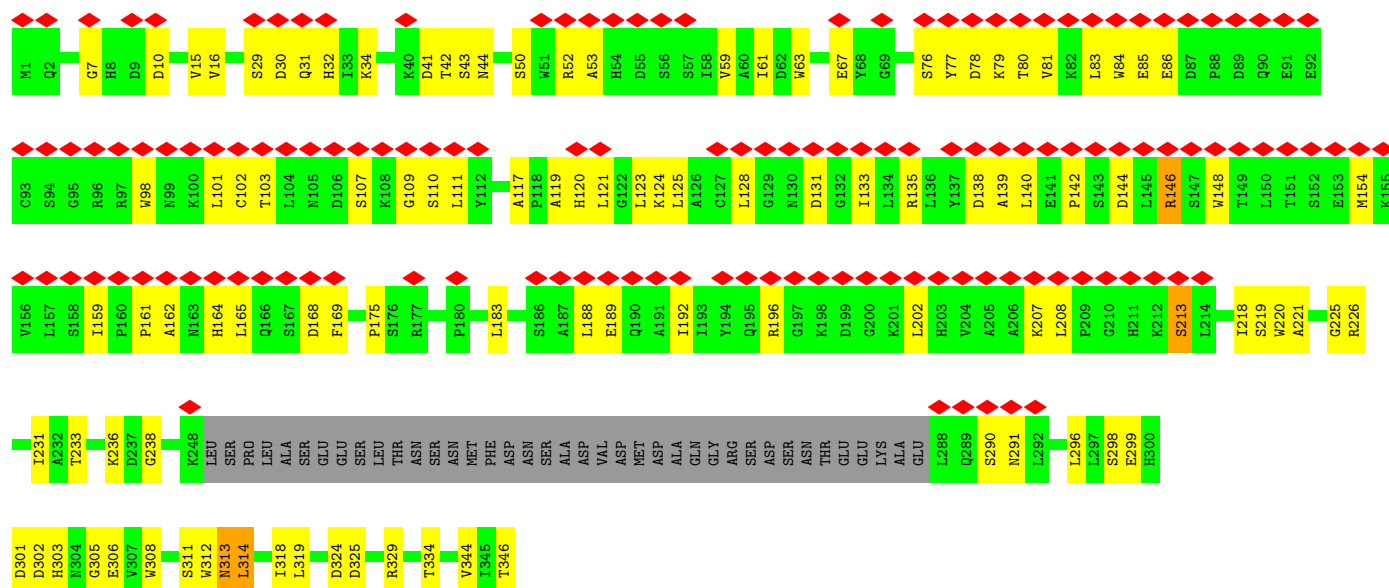
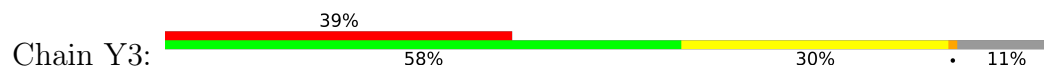


• Molecule 27: SEH1

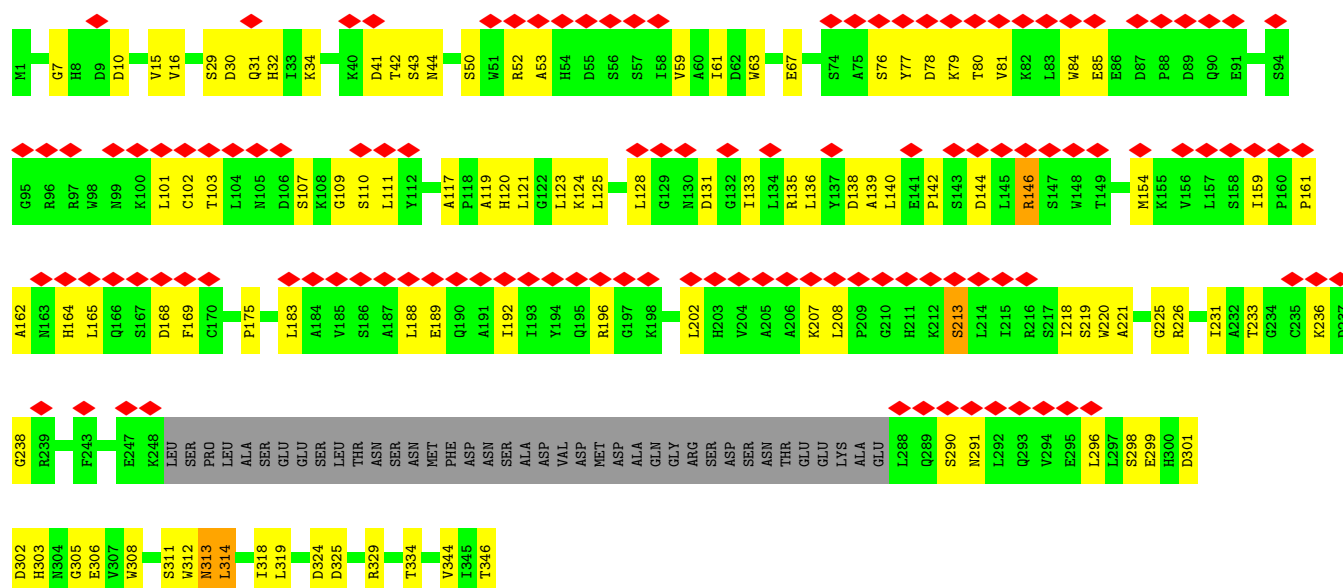




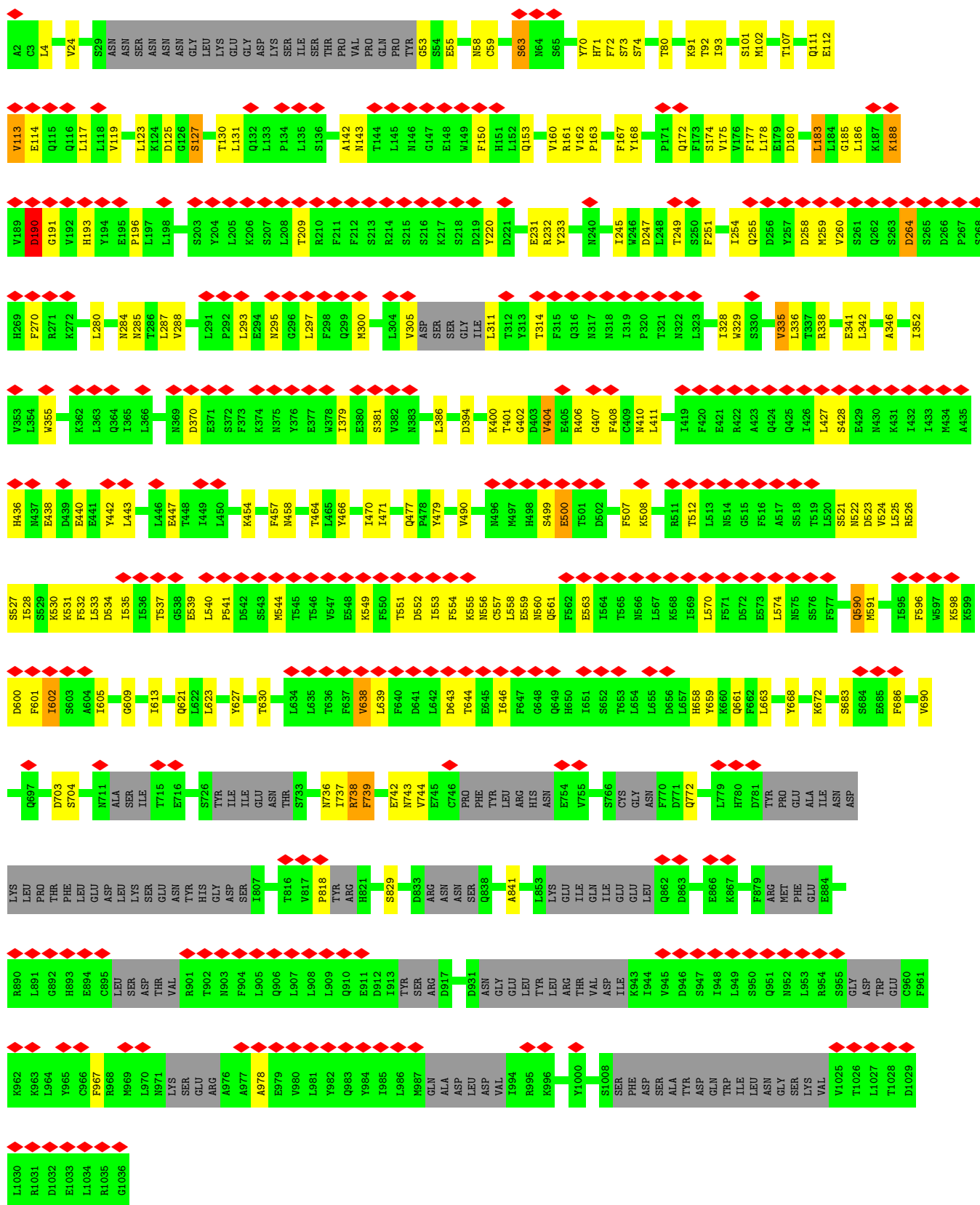
• Molecule 27: SEH1



• Molecule 27: SEH1



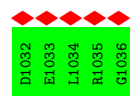
• Molecule 28: NUP160



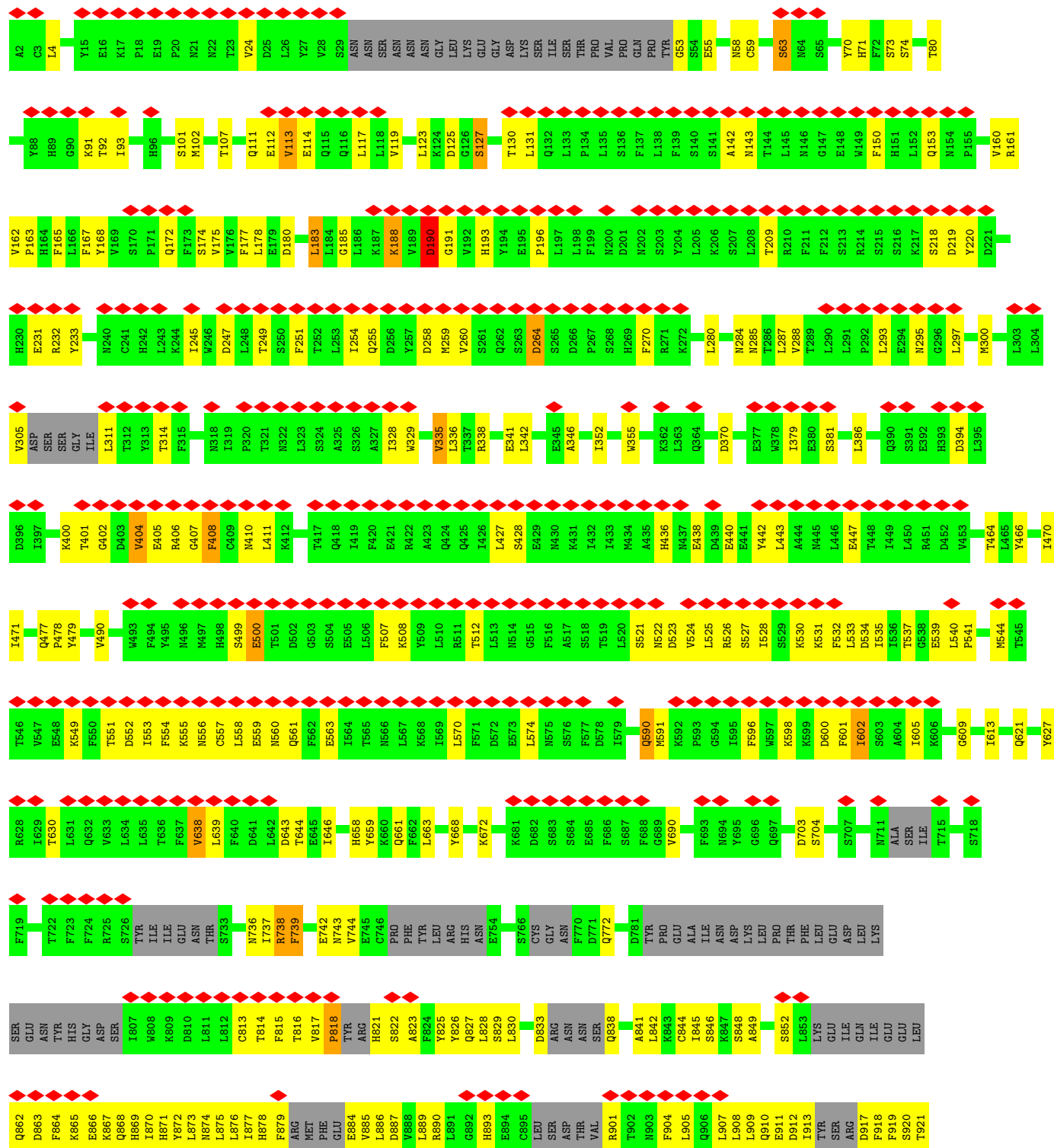
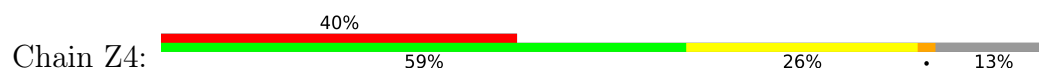
Chain Z2:

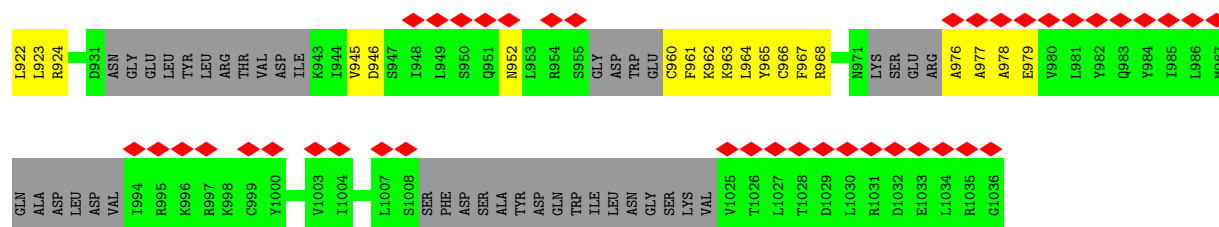




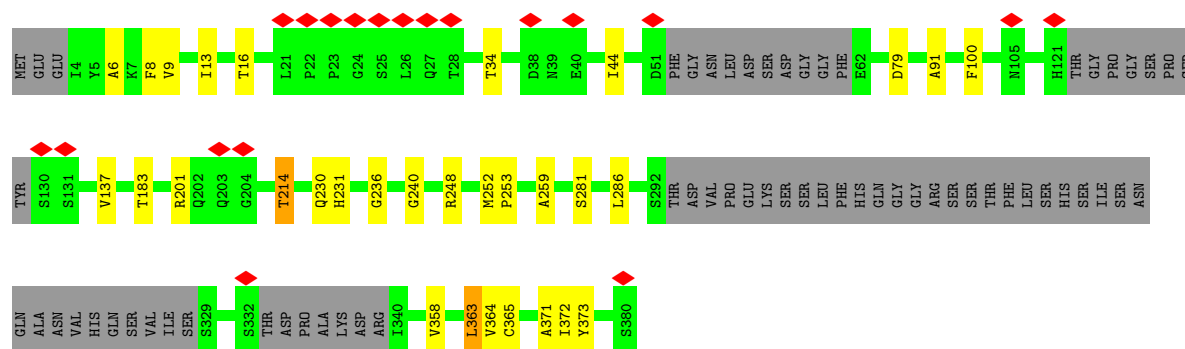
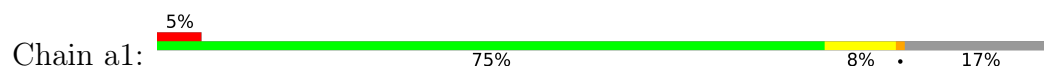


● Molecule 28: NUP160

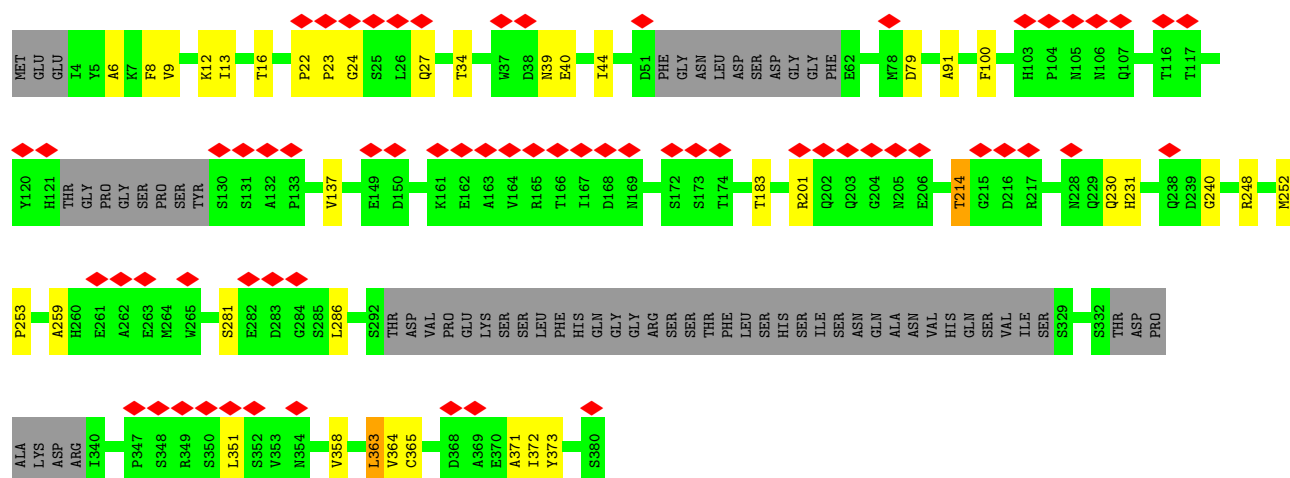
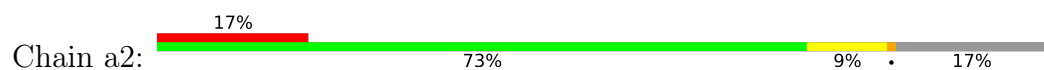




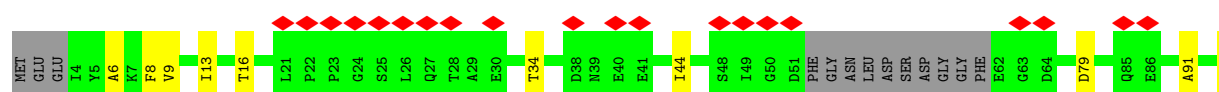
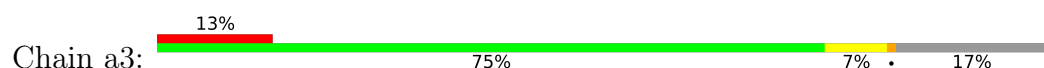
• Molecule 29: NUP43

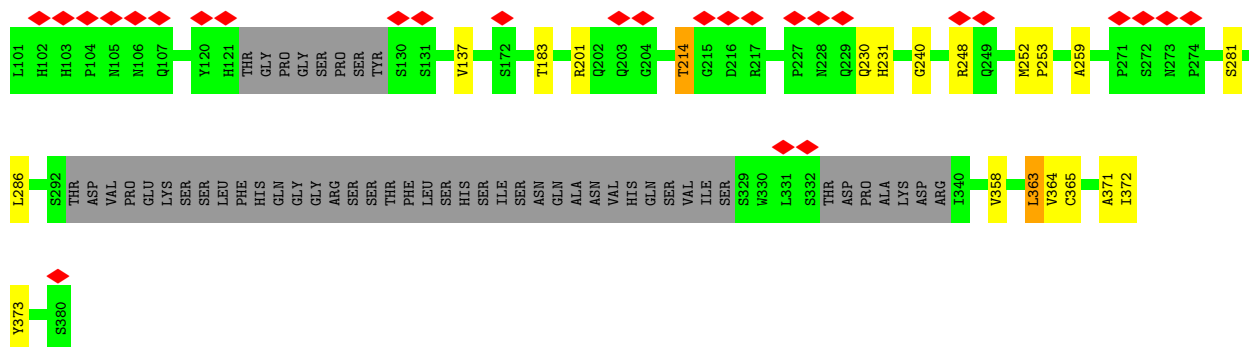


• Molecule 29: NUP43

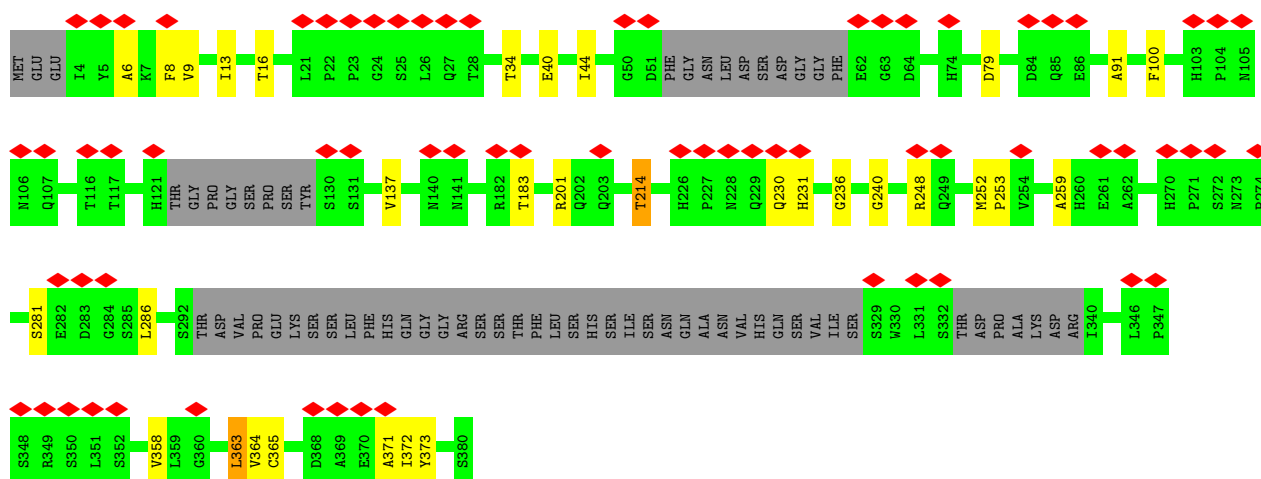
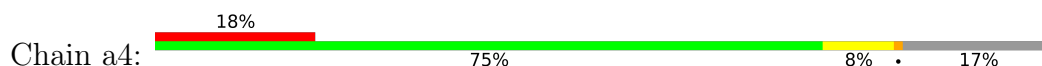


• Molecule 29: NUP43

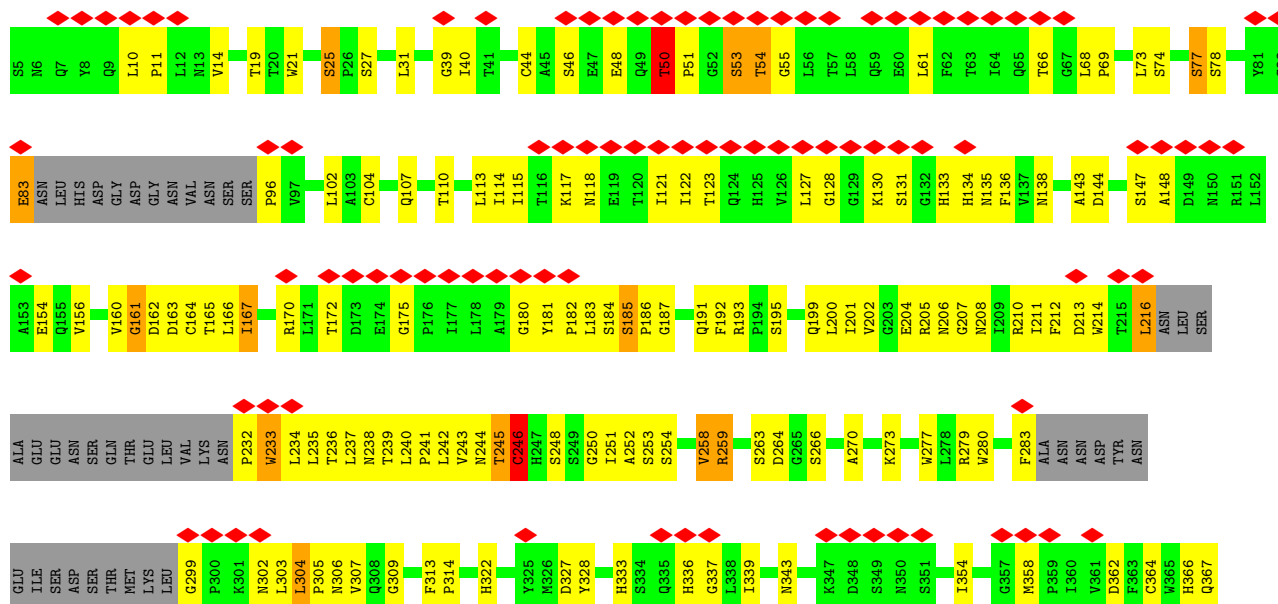


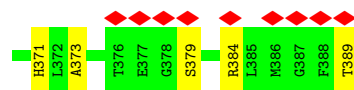


• Molecule 29: NUP43

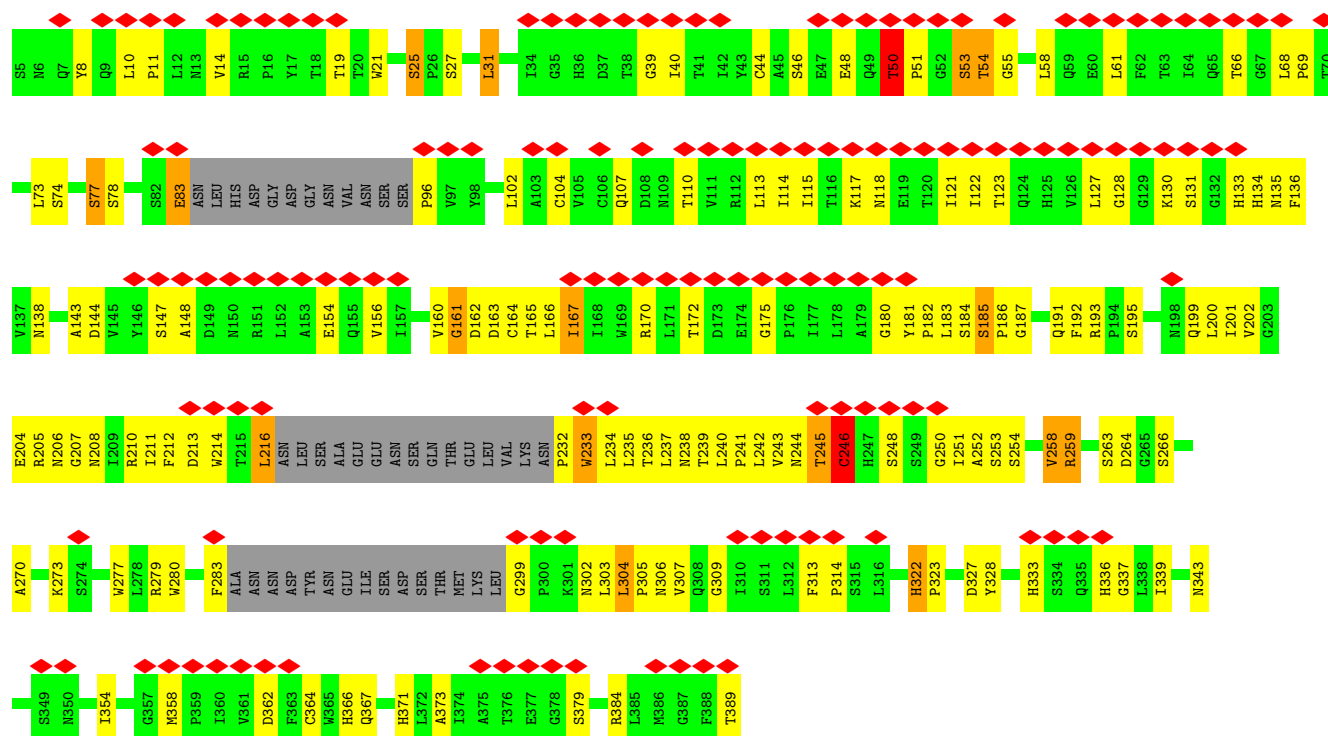
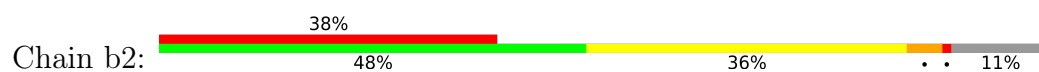


• Molecule 30: NUP37

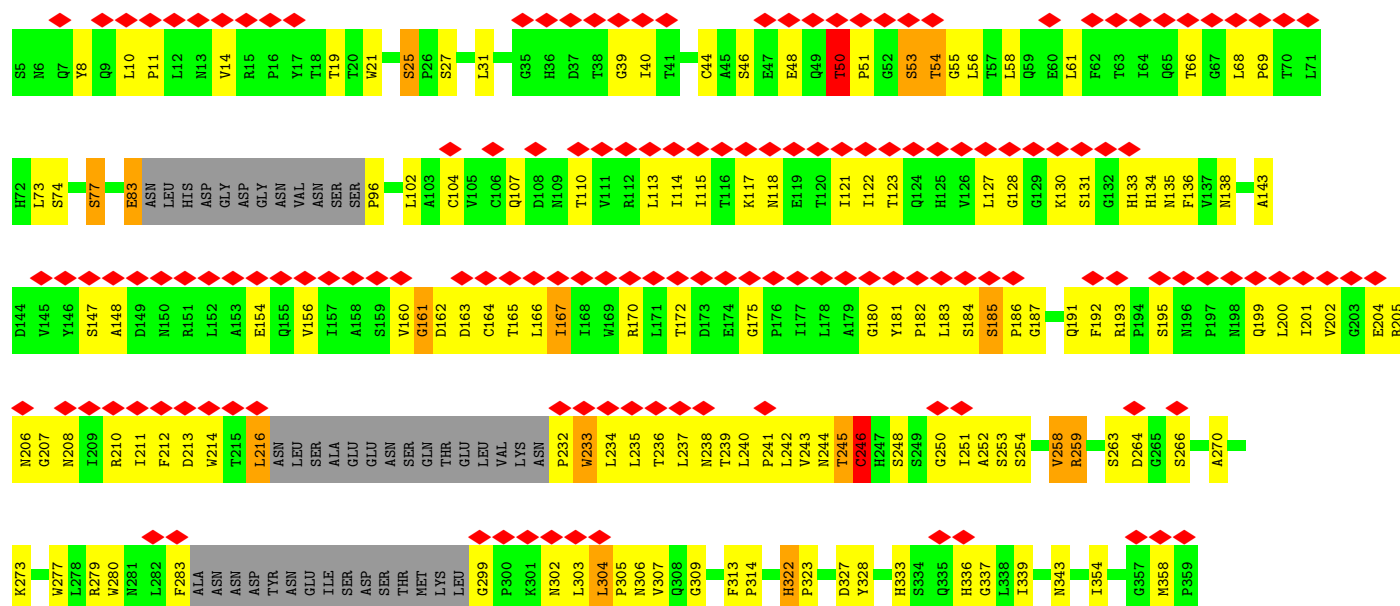
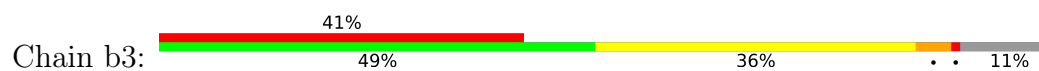


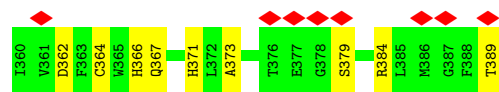


• Molecule 30: NUP37

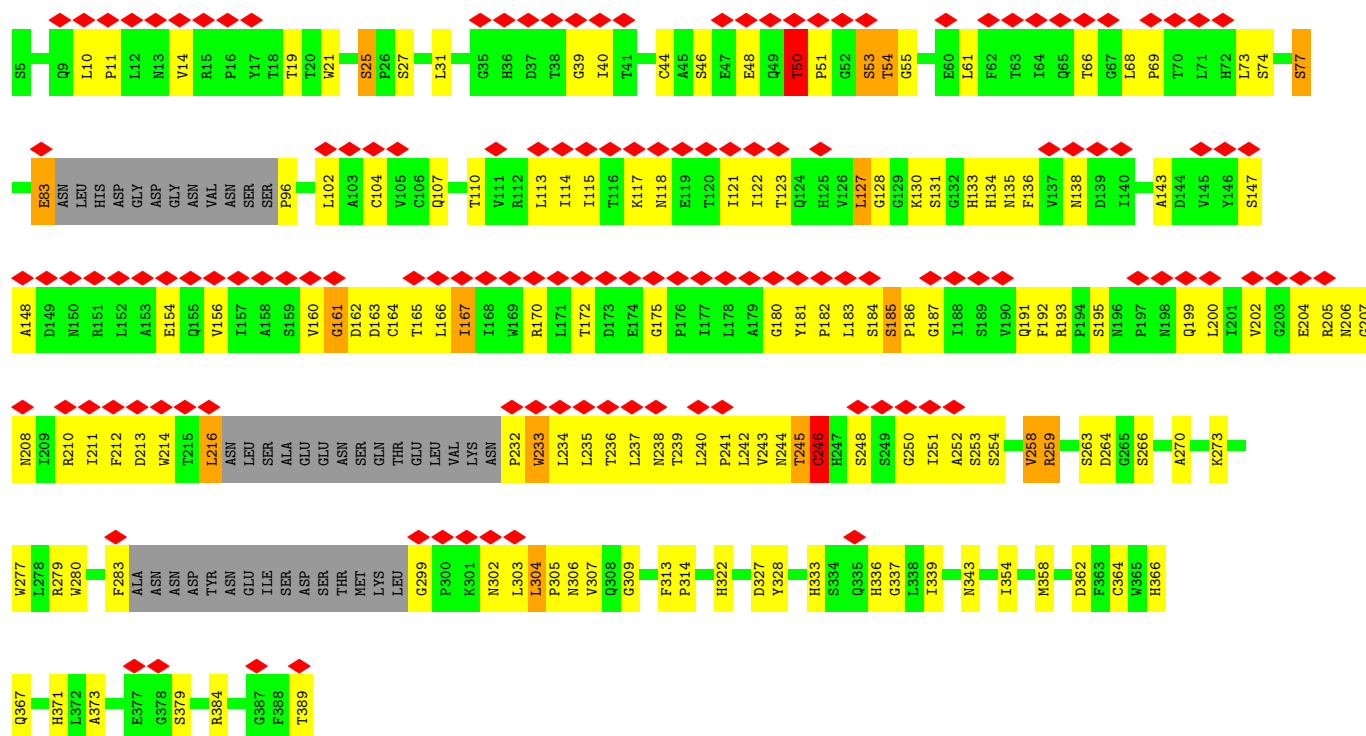


• Molecule 30: NUP37





• Molecule 30: NUP37



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	17368	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 ($e^-/\text{\AA}^2$)	110	Depositor
Minimum defocus (nm)	1900	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	82.185	Depositor
Minimum map value	-69.686	Depositor
Average map value	0.077	Depositor
Map value standard deviation	0.791	Depositor
Recommended contour level	3.5	Depositor
Map size (Å)	1941.1199, 1941.1199, 1941.1199	wwPDB
Map dimensions	576, 576, 576	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	3.37, 3.37, 3.37	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	0.18	2/10216 (0.0%)	0.33	0/13838
3	A6	0.18	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	0.18	0/112	0.52	0/149
5	C1	0.28	0/140	0.40	0/188
5	C2	0.23	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	0.34	0/6930
6	D3	0.17	0/5130	0.34	0/6930
6	D4	0.17	0/5130	0.35	0/6930
6	D5	0.16	0/5130	0.34	0/6930
6	D6	0.17	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	0.19	0/65	0.41	0/89
7	E4	0.17	0/65	0.41	0/89
7	E5	0.18	0/65	0.41	0/89
7	E6	0.18	0/65	0.41	0/89
7	E7	0.18	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	0.11	0/445	0.33	0/600
9	G2	0.11	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	0.08	0/12541	0.20	0/16980
11	I2	0.08	0/12541	0.20	0/16980
11	I3	0.08	0/12541	0.20	0/16980
11	I4	0.09	0/12541	0.20	0/16980
11	I5	0.08	0/12541	0.20	0/16980
12	J1	0.09	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	0.09	0/511	0.18	0/688
12	J5	0.09	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	0.08	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	0.04	0/15	0.07	0/18
14	L4	0.04	0/15	0.07	0/18
14	L5	0.04	0/15	0.07	0/18
15	M1	0.30	0/1388	0.66	0/1866
15	M2	0.31	0/1388	0.66	0/1866
15	M3	0.30	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	1.17	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	0.62	0/416
20	R2	0.30	0/312	0.63	0/416
20	R3	0.29	0/312	0.63	0/416
20	R4	0.29	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	0.30	0/2037	0.71	0/2749
22	T3	0.30	0/2037	0.71	0/2749
22	T4	0.31	0/2037	0.71	0/2749
23	U1	0.48	0/3472	0.99	5/4714 (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	0.99	17/6246 (0.3%)
26	X2	0.42	0/4602	0.99	16/6246 (0.3%)
26	X3	0.42	0/4602	1.00	15/6246 (0.2%)
26	X4	0.42	0/4602	0.99	14/6246 (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	2/2723 (0.1%)	0.84	1/3715 (0.0%)
29	a3	0.98	2/2723 (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%)
All	All	0.42	59/365761 (0.0%)	0.70	390/495950 (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 (59) 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	8.42	1.47	1.33
3	A5	891	GLY	C-N	8.38	1.47	1.33
21	S4	214	ALA	C-O	-7.41	1.15	1.24
21	S3	214	ALA	C-O	-7.40	1.15	1.24
21	S2	214	ALA	C-O	-7.37	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	S1	214	ALA	C-O	-7.35	1.15	1.24
1	A1	808	GLN	C-N	-6.81	1.24	1.33
21	S4	123	LEU	N-CA	-6.72	1.38	1.46
1	A3	808	GLN	C-N	-6.72	1.24	1.33
21	S3	123	LEU	N-CA	-6.71	1.38	1.46
3	A6	808	GLN	C-N	-6.70	1.25	1.33
21	S4	124	ILE	CA-C	-6.68	1.44	1.52
21	S3	124	ILE	CA-C	-6.68	1.44	1.52
21	S3	129	ALA	CA-CB	6.67	1.61	1.52
3	A5	808	GLN	C-N	-6.66	1.25	1.33
21	S2	124	ILE	CA-C	-6.62	1.44	1.52
21	S1	129	ALA	CA-CB	6.62	1.61	1.52
21	S1	124	ILE	CA-C	-6.62	1.44	1.52
21	S1	123	LEU	N-CA	-6.60	1.38	1.46
21	S2	129	ALA	CA-CB	6.59	1.61	1.52
21	S2	123	LEU	N-CA	-6.58	1.38	1.46
21	S4	129	ALA	CA-CB	6.56	1.61	1.52
29	a2	183	THR	N-CA	5.91	1.52	1.45
29	a1	183	THR	N-CA	5.86	1.52	1.45
29	a4	183	THR	N-CA	5.85	1.52	1.45
29	a3	183	THR	N-CA	5.80	1.52	1.45
21	S2	107	ILE	N-CA	-5.79	1.39	1.46
21	S1	107	ILE	N-CA	-5.76	1.39	1.46
21	S3	107	ILE	N-CA	-5.75	1.39	1.46
21	S4	107	ILE	N-CA	-5.73	1.39	1.46
21	S1	389	GLU	CA-C	5.52	1.59	1.52
21	S3	389	GLU	CA-C	5.52	1.59	1.52
21	S4	389	GLU	CA-C	5.52	1.59	1.52
29	a3	201	ARG	C-O	-5.50	1.16	1.24
21	S2	389	GLU	CA-C	5.48	1.59	1.52
29	a4	201	ARG	C-O	-5.47	1.16	1.24
29	a1	201	ARG	C-O	-5.46	1.16	1.24
29	a2	201	ARG	C-O	-5.45	1.16	1.24
21	S2	90	VAL	CA-CB	5.22	1.60	1.54
21	S4	90	VAL	CA-CB	5.19	1.60	1.54
21	S3	90	VAL	CA-CB	5.19	1.60	1.54
21	S1	90	VAL	CA-CB	5.17	1.60	1.54
21	S3	300	ASP	N-CA	-5.15	1.40	1.46
21	S4	313	ASN	N-CA	-5.13	1.40	1.46
21	S4	300	ASP	N-CA	-5.11	1.40	1.46
21	S2	313	ASN	N-CA	-5.07	1.40	1.46
21	S2	307	ALA	N-CA	-5.07	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	S1	300	ASP	N-CA	-5.07	1.40	1.46
29	a1	236	GLY	CA-C	-5.06	1.48	1.52
21	S4	307	ALA	N-CA	-5.06	1.39	1.46
29	a4	236	GLY	CA-C	-5.05	1.48	1.52
21	S1	313	ASN	N-CA	-5.05	1.40	1.46
21	S1	307	ALA	N-CA	-5.04	1.39	1.46
21	S2	300	ASP	N-CA	-5.04	1.40	1.46
21	S1	314	ARG	C-O	-5.02	1.18	1.24
21	S4	314	ARG	C-O	-5.02	1.18	1.24
21	S3	153	ALA	C-O	-5.00	1.17	1.24

All (390) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S2	131	SER	CA-C-N	10.39	130.68	119.87
21	S2	131	SER	C-N-CA	10.39	130.68	119.87
21	S4	131	SER	CA-C-N	10.39	130.68	119.87
21	S4	131	SER	C-N-CA	10.39	130.68	119.87
21	S3	131	SER	CA-C-N	10.33	130.62	119.87
21	S3	131	SER	C-N-CA	10.33	130.62	119.87
21	S1	131	SER	CA-C-N	10.30	130.58	119.87
21	S1	131	SER	C-N-CA	10.30	130.58	119.87
26	X1	454	LEU	N-CA-C	10.13	124.31	111.24
26	X2	454	LEU	N-CA-C	10.13	124.30	111.24
28	Z3	738	ARG	N-CA-C	-10.08	100.52	113.12
28	Z1	738	ARG	N-CA-C	-10.06	100.54	113.12
26	X4	454	LEU	N-CA-C	10.06	124.22	111.24
26	X3	454	LEU	N-CA-C	10.06	124.22	111.24
28	Z2	738	ARG	N-CA-C	-10.05	100.55	113.12
28	Z4	739	PHE	N-CA-C	-10.03	100.43	111.36
28	Z4	738	ARG	N-CA-C	-10.03	100.58	113.12
28	Z1	739	PHE	N-CA-C	-9.95	100.51	111.36
28	Z2	739	PHE	N-CA-C	-9.94	100.53	111.36
28	Z3	739	PHE	N-CA-C	-9.93	100.53	111.36
21	S2	685	PRO	N-CA-CB	9.91	113.66	103.25
21	S1	685	PRO	N-CA-CB	9.90	113.65	103.25
21	S4	685	PRO	N-CA-CB	9.86	113.60	103.25
21	S3	685	PRO	N-CA-CB	9.86	113.60	103.25
21	S4	446	ALA	N-CA-C	9.25	124.46	109.76
21	S2	446	ALA	N-CA-C	9.23	124.44	109.76
21	S1	446	ALA	N-CA-C	9.23	124.43	109.76
21	S3	446	ALA	N-CA-C	9.22	124.41	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S3	293	ASN	N-CA-C	8.81	121.28	108.86
21	S1	293	ASN	N-CA-C	8.80	121.27	108.86
21	S2	293	ASN	N-CA-C	8.77	121.23	108.86
21	S4	293	ASN	N-CA-C	8.74	121.19	108.86
23	U3	24	ILE	N-CA-C	8.52	125.85	113.16
23	U4	24	ILE	N-CA-C	8.49	125.81	113.16
23	U1	24	ILE	N-CA-C	8.48	125.80	113.16
23	U2	24	ILE	N-CA-C	8.46	125.76	113.16
25	W3	154	ALA	CA-C-N	-8.10	112.37	120.31
25	W3	154	ALA	C-N-CA	-8.10	112.37	120.31
25	W2	154	ALA	CA-C-N	-8.09	112.38	120.31
25	W2	154	ALA	C-N-CA	-8.09	112.38	120.31
21	S2	680	PRO	N-CA-CB	8.08	111.74	103.25
21	S4	680	PRO	N-CA-CB	8.08	111.73	103.25
21	S3	680	PRO	N-CA-CB	8.08	111.73	103.25
25	W1	154	ALA	CA-C-N	-8.06	112.41	120.31
25	W1	154	ALA	C-N-CA	-8.06	112.41	120.31
21	S1	680	PRO	N-CA-CB	8.05	111.71	103.25
25	W4	154	ALA	CA-C-N	-8.02	112.45	120.31
25	W4	154	ALA	C-N-CA	-8.02	112.45	120.31
21	S3	573	PRO	N-CA-CB	7.78	111.42	103.25
21	S2	573	PRO	N-CA-CB	7.75	111.39	103.25
21	S4	573	PRO	N-CA-CB	7.75	111.39	103.25
21	S4	386	VAL	CB-CA-C	-7.74	99.78	110.77
30	b3	246	CYS	N-CA-C	-7.74	102.85	111.28
21	S1	386	VAL	CB-CA-C	-7.72	99.81	110.77
21	S1	573	PRO	N-CA-CB	7.71	111.35	103.25
21	S2	386	VAL	CB-CA-C	-7.71	99.82	110.77
30	b1	246	CYS	N-CA-C	-7.70	102.89	111.28
21	S3	386	VAL	CB-CA-C	-7.70	99.84	110.77
30	b4	246	CYS	N-CA-C	-7.69	102.90	111.28
30	b2	246	CYS	N-CA-C	-7.67	102.92	111.28
26	X2	288	SER	N-CA-C	-7.50	102.25	111.40
26	X3	288	SER	N-CA-C	-7.47	102.29	111.40
26	X4	288	SER	N-CA-C	-7.46	102.30	111.40
26	X1	288	SER	N-CA-C	-7.44	102.32	111.40
21	S1	791	PRO	N-CA-CB	7.19	110.80	103.25
21	S3	791	PRO	N-CA-CB	7.17	110.78	103.25
21	S2	791	PRO	N-CA-CB	7.12	110.72	103.25
21	S4	791	PRO	N-CA-CB	7.11	110.72	103.25
27	Y4	146	ARG	N-CA-C	-6.96	105.98	114.75
21	S4	849	PRO	N-CA-CB	6.95	110.72	103.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S3	849	PRO	N-CA-CB	6.95	110.72	103.15
27	Y2	146	ARG	N-CA-C	-6.95	106.00	114.75
21	S1	849	PRO	N-CA-CB	6.94	110.72	103.15
21	S2	414	ASN	CA-C-N	-6.94	112.42	122.06
21	S2	414	ASN	C-N-CA	-6.94	112.42	122.06
27	Y1	146	ARG	N-CA-C	-6.92	106.03	114.75
27	Y3	146	ARG	N-CA-C	-6.92	106.03	114.75
21	S3	414	ASN	CA-C-N	-6.91	112.46	122.06
21	S3	414	ASN	C-N-CA	-6.91	112.46	122.06
21	S1	414	ASN	CA-C-N	-6.90	112.47	122.06
21	S1	414	ASN	C-N-CA	-6.90	112.47	122.06
21	S4	414	ASN	CA-C-N	-6.90	112.47	122.06
21	S4	414	ASN	C-N-CA	-6.90	112.47	122.06
21	S2	849	PRO	N-CA-CB	6.89	110.66	103.15
27	Y3	314	LEU	N-CA-C	-6.88	104.70	113.23
27	Y2	314	LEU	N-CA-C	-6.87	104.71	113.23
27	Y1	314	LEU	N-CA-C	-6.85	104.74	113.23
27	Y4	314	LEU	N-CA-C	-6.85	104.74	113.23
26	X2	167	GLY	N-CA-C	-6.79	97.09	113.18
26	X1	167	GLY	N-CA-C	-6.78	97.11	113.18
26	X3	167	GLY	N-CA-C	-6.78	97.11	113.18
26	X4	167	GLY	N-CA-C	-6.77	97.14	113.18
26	X3	400	GLY	N-CA-C	6.72	124.15	114.67
23	U3	382	LYS	CA-C-N	6.71	128.23	119.84
23	U3	382	LYS	C-N-CA	6.71	128.23	119.84
23	U4	382	LYS	CA-C-N	6.70	128.21	119.84
23	U4	382	LYS	C-N-CA	6.70	128.21	119.84
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
26	X2	608	PRO	N-CA-CB	6.67	110.67	103.33
23	U2	382	LYS	CA-C-N	6.67	128.17	119.84
23	U2	382	LYS	C-N-CA	6.67	128.17	119.84
26	X1	400	GLY	N-CA-C	6.66	124.06	114.67
21	S2	414	ASN	N-CA-C	-6.66	100.67	110.52
26	X4	400	GLY	N-CA-C	6.65	124.05	114.67
26	X2	400	GLY	N-CA-C	6.65	124.04	114.67
21	S1	414	ASN	N-CA-C	-6.64	100.69	110.52
21	S3	414	ASN	N-CA-C	-6.64	100.69	110.52
26	X1	608	PRO	N-CA-CB	6.64	110.63	103.33
26	X3	608	PRO	N-CA-CB	6.62	110.61	103.33
21	S4	628	PRO	N-CA-CB	6.62	110.20	103.25
21	S2	628	PRO	N-CA-CB	6.62	110.20	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S3	628	PRO	N-CA-CB	6.61	110.19	103.25
21	S1	628	PRO	N-CA-CB	6.61	110.19	103.25
21	S4	414	ASN	N-CA-C	-6.61	100.74	110.52
28	Z4	818	PRO	N-CA-CB	6.60	110.26	103.00
28	Z3	818	PRO	N-CA-CB	6.58	110.24	103.00
26	X4	608	PRO	N-CA-CB	6.55	110.54	103.33
26	X2	453	ASP	N-CA-C	6.52	118.12	108.60
28	Z1	818	PRO	N-CA-CB	6.52	110.17	103.00
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
26	X4	453	ASP	N-CA-C	6.47	118.05	108.60
26	X3	453	ASP	N-CA-C	6.44	118.00	108.60
2	A2	1305	ALA	CA-C-N	-6.41	113.61	120.47
2	A2	1305	ALA	C-N-CA	-6.41	113.61	120.47
2	A4	1305	ALA	CA-C-N	-6.40	113.62	120.47
2	A4	1305	ALA	C-N-CA	-6.40	113.62	120.47
24	V4	307	ALA	N-CA-C	-6.38	104.25	111.14
27	Y3	291	ASN	N-CA-C	-6.32	103.60	113.02
24	V2	307	ALA	N-CA-C	-6.32	104.32	111.14
24	V1	307	ALA	N-CA-C	-6.32	104.32	111.14
24	V3	307	ALA	N-CA-C	-6.31	104.33	111.14
27	Y1	291	ASN	N-CA-C	-6.30	103.63	113.02
27	Y2	291	ASN	N-CA-C	-6.30	103.63	113.02
27	Y4	291	ASN	N-CA-C	-6.29	103.65	113.02
24	V3	516	ILE	N-CA-C	6.27	117.77	110.62
26	X2	461	MET	N-CA-C	-6.24	105.49	113.23
26	X1	461	MET	N-CA-C	-6.24	105.50	113.23
26	X3	461	MET	N-CA-C	-6.24	105.50	113.23
21	S3	315	ALA	N-CA-C	6.23	117.74	111.07
26	X4	461	MET	N-CA-C	-6.23	105.51	113.23
24	V2	319	LEU	N-CA-C	-6.22	104.19	110.97
21	S1	315	ALA	N-CA-C	6.22	117.72	111.07
24	V2	516	ILE	N-CA-C	6.21	117.70	110.62
24	V1	516	ILE	N-CA-C	6.21	117.70	110.62
24	V4	516	ILE	N-CA-C	6.20	117.69	110.62
21	S4	315	ALA	N-CA-C	6.19	117.69	111.07
21	S2	315	ALA	N-CA-C	6.15	117.65	111.07
24	V1	399	SER	N-CA-C	-6.12	102.29	110.55
24	V2	399	SER	N-CA-C	-6.11	102.30	110.55
24	V4	399	SER	N-CA-C	-6.11	102.31	110.55
24	V3	399	SER	N-CA-C	-6.10	102.32	110.55
26	X3	166	ASP	N-CA-C	6.06	118.34	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	X1	166	ASP	N-CA-C	6.04	118.31	108.76
24	V1	369	GLY	N-CA-C	6.03	120.11	111.12
26	X2	166	ASP	N-CA-C	6.03	118.29	108.76
24	V4	369	GLY	N-CA-C	6.02	120.09	111.12
26	X4	166	ASP	N-CA-C	6.02	118.27	108.76
24	V2	369	GLY	N-CA-C	6.02	120.08	111.12
30	b2	50	THR	CA-C-N	-6.00	112.34	119.84
30	b2	50	THR	C-N-CA	-6.00	112.34	119.84
30	b1	50	THR	CA-C-N	-6.00	112.34	119.84
30	b1	50	THR	C-N-CA	-6.00	112.34	119.84
30	b4	50	THR	CA-C-N	-5.99	112.35	119.84
30	b4	50	THR	C-N-CA	-5.99	112.35	119.84
30	b3	50	THR	CA-C-N	-5.99	112.36	119.84
30	b3	50	THR	C-N-CA	-5.99	112.36	119.84
24	V3	369	GLY	N-CA-C	5.99	120.04	111.12
21	S4	120	LYS	CB-CA-C	-5.97	109.68	116.54
21	S3	120	LYS	CB-CA-C	-5.96	109.69	116.54
29	a3	281	SER	N-CA-C	5.95	118.23	109.24
21	S1	120	LYS	CB-CA-C	-5.95	109.70	116.54
21	S2	120	LYS	CB-CA-C	-5.94	109.71	116.54
29	a2	281	SER	N-CA-C	5.92	118.19	109.24
29	a4	281	SER	N-CA-C	5.92	118.19	109.24
30	b3	175	GLY	CA-C-N	5.92	125.68	119.76
30	b3	175	GLY	C-N-CA	5.92	125.68	119.76
30	b1	175	GLY	CA-C-N	5.91	125.67	119.76
30	b1	175	GLY	C-N-CA	5.91	125.67	119.76
30	b2	175	GLY	CA-C-N	5.91	125.67	119.76
30	b2	175	GLY	C-N-CA	5.91	125.67	119.76
29	a1	281	SER	N-CA-C	5.90	118.15	109.24
25	W2	63	HIS	CA-C-N	5.90	125.58	119.56
25	W2	63	HIS	C-N-CA	5.90	125.58	119.56
25	W1	63	HIS	CA-C-N	5.87	125.55	119.56
25	W1	63	HIS	C-N-CA	5.87	125.55	119.56
30	b4	175	GLY	CA-C-N	5.86	125.62	119.76
30	b4	175	GLY	C-N-CA	5.86	125.62	119.76
30	b3	306	ASN	N-CA-C	5.85	118.44	111.71
30	b2	306	ASN	N-CA-C	5.82	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	5.82	125.50	119.56
25	W4	63	HIS	C-N-CA	5.82	125.50	119.56
30	b1	306	ASN	N-CA-C	5.79	118.37	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	b4	306	ASN	N-CA-C	5.78	118.35	111.71
24	V4	305	VAL	N-CA-C	5.77	116.50	110.62
24	V3	305	VAL	N-CA-C	5.75	116.48	110.62
24	V1	305	VAL	N-CA-C	5.72	116.45	110.62
24	V2	305	VAL	N-CA-C	5.71	116.44	110.62
21	S4	245	LEU	CA-C-N	5.70	126.97	119.84
21	S4	245	LEU	C-N-CA	5.70	126.97	119.84
21	S3	245	LEU	CA-C-N	5.69	126.96	119.84
21	S3	245	LEU	C-N-CA	5.69	126.96	119.84
21	S4	400	GLU	N-CA-C	5.69	117.48	111.28
21	S1	245	LEU	CA-C-N	5.67	126.93	119.84
21	S1	245	LEU	C-N-CA	5.67	126.93	119.84
21	S2	245	LEU	CA-C-N	5.66	126.92	119.84
21	S2	245	LEU	C-N-CA	5.66	126.92	119.84
21	S3	175	VAL	N-CA-C	5.66	116.27	108.12
21	S4	175	VAL	N-CA-C	5.63	116.23	108.12
24	V3	319	LEU	N-CA-C	-5.61	104.17	111.02
24	V4	319	LEU	N-CA-C	-5.61	104.18	111.02
21	S1	175	VAL	N-CA-C	5.58	116.16	108.12
24	V1	319	LEU	N-CA-C	-5.58	104.21	111.02
21	S2	175	VAL	N-CA-C	5.57	116.14	108.12
26	X3	95	ILE	CA-C-N	5.57	126.80	119.84
26	X3	95	ILE	C-N-CA	5.57	126.80	119.84
26	X1	95	ILE	CA-C-N	5.55	126.78	119.84
26	X1	95	ILE	C-N-CA	5.55	126.78	119.84
26	X2	95	ILE	CA-C-N	5.54	126.77	119.84
26	X2	95	ILE	C-N-CA	5.54	126.77	119.84
30	b3	161	GLY	N-CA-C	5.53	119.36	111.12
26	X4	95	ILE	CA-C-N	5.53	126.75	119.84
26	X4	95	ILE	C-N-CA	5.53	126.75	119.84
30	b1	161	GLY	N-CA-C	5.50	119.32	111.12
30	b3	118	ASN	CB-CA-C	-5.50	110.21	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
30	b4	322	HIS	CA-C-N	5.50	125.11	119.56
30	b4	322	HIS	C-N-CA	5.50	125.11	119.56
30	b4	161	GLY	N-CA-C	5.49	119.31	111.12
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
24	V3	176	LEU	CA-C-N	5.49	126.35	119.98
24	V3	176	LEU	C-N-CA	5.49	126.35	119.98
30	b1	322	HIS	CA-C-N	5.48	125.10	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	b1	322	HIS	C-N-CA	5.48	125.10	119.56
30	b2	161	GLY	N-CA-C	5.48	119.29	111.12
30	b4	118	ASN	CB-CA-C	-5.47	110.25	116.54
30	b2	118	ASN	CB-CA-C	-5.45	110.27	116.54
30	b3	104	CYS	N-CA-C	5.45	117.07	108.96
21	S1	700	CYS	N-CA-C	-5.44	106.95	113.21
30	b1	118	ASN	CB-CA-C	-5.44	110.28	116.54
21	S2	146	PRO	N-CD-CG	-5.44	95.04	103.20
30	b3	322	HIS	CA-C-N	5.44	125.05	119.56
30	b3	322	HIS	C-N-CA	5.44	125.05	119.56
24	V1	176	LEU	CA-C-N	5.44	126.28	119.98
24	V1	176	LEU	C-N-CA	5.44	126.28	119.98
21	S4	700	CYS	N-CA-C	-5.43	106.96	113.21
24	V4	176	LEU	CA-C-N	5.43	126.28	119.98
24	V4	176	LEU	C-N-CA	5.43	126.28	119.98
23	U3	168	VAL	N-CA-C	5.43	116.06	110.36
23	U2	168	VAL	N-CA-C	5.42	116.05	110.36
21	S3	700	CYS	N-CA-C	-5.41	106.99	113.21
21	S2	700	CYS	N-CA-C	-5.41	106.99	113.21
21	S4	146	PRO	N-CD-CG	-5.40	95.10	103.20
23	U4	168	VAL	N-CA-C	5.40	116.03	110.36
21	S1	146	PRO	N-CD-CG	-5.40	95.10	103.20
21	S3	444	PHE	N-CA-C	-5.39	104.12	111.56
26	X1	320	SER	N-CA-C	5.39	115.36	108.24
30	b1	104	CYS	N-CA-C	5.39	117.00	108.96
21	S2	379	GLY	N-CA-C	-5.39	100.41	113.18
30	b4	104	CYS	N-CA-C	5.39	116.99	108.96
21	S3	883	SER	N-CA-C	-5.38	106.79	113.19
21	S4	379	GLY	N-CA-C	-5.38	100.43	113.18
27	Y2	298	SER	N-CA-C	5.38	117.36	109.24
21	S3	379	GLY	N-CA-C	-5.38	100.44	113.18
21	S2	883	SER	N-CA-C	-5.38	106.79	113.19
30	b2	104	CYS	N-CA-C	5.37	116.97	108.96
23	U1	168	VAL	N-CA-C	5.37	116.00	110.36
21	S3	146	PRO	N-CD-CG	-5.37	95.14	103.20
21	S1	883	SER	N-CA-C	-5.37	106.80	113.19
27	Y3	298	SER	N-CA-C	5.37	117.35	109.24
21	S1	444	PHE	N-CA-C	-5.37	104.16	111.56
26	X4	320	SER	N-CA-C	5.37	115.32	108.24
21	S1	379	GLY	N-CA-C	-5.36	100.47	113.18
27	Y4	298	SER	N-CA-C	5.36	117.33	109.24
27	Y1	298	SER	N-CA-C	5.36	117.33	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	b4	167	ILE	N-CA-C	5.35	115.56	107.80
26	X2	320	SER	N-CA-C	5.35	115.30	108.24
21	S2	444	PHE	N-CA-C	-5.35	104.18	111.56
21	S1	227	SER	N-CA-C	5.34	119.08	112.24
21	S4	883	SER	N-CA-C	-5.34	106.83	113.19
21	S4	444	PHE	N-CA-C	-5.34	104.19	111.56
26	X3	516	ASN	N-CA-C	-5.33	105.13	111.69
26	X1	516	ASN	N-CA-C	-5.33	105.14	111.69
26	X3	320	SER	N-CA-C	5.32	115.27	108.24
30	b2	167	ILE	N-CA-C	5.32	115.51	107.80
30	b3	167	ILE	N-CA-C	5.32	115.51	107.80
21	S2	227	SER	N-CA-C	5.31	119.03	112.24
30	b1	167	ILE	N-CA-C	5.30	115.49	107.80
23	U2	236	GLY	N-CA-C	-5.30	103.82	112.83
21	S4	227	SER	N-CA-C	5.29	119.02	112.24
23	U4	236	GLY	N-CA-C	-5.29	103.83	112.83
26	X2	516	ASN	N-CA-C	-5.29	105.18	111.69
30	b2	48	GLU	N-CA-C	-5.29	101.54	109.79
21	S4	121	GLU	N-CA-C	5.29	118.75	112.72
30	b1	48	GLU	N-CA-C	-5.29	101.54	109.79
26	X4	516	ASN	N-CA-C	-5.29	105.19	111.69
21	S2	121	GLU	N-CA-C	5.28	118.74	112.72
21	S1	121	GLU	N-CA-C	5.28	118.74	112.72
23	U1	236	GLY	N-CA-C	-5.28	103.85	112.83
23	U3	236	GLY	N-CA-C	-5.28	103.85	112.83
21	S3	227	SER	N-CA-C	5.28	118.99	112.24
30	b4	48	GLU	N-CA-C	-5.28	101.56	109.79
30	b3	48	GLU	N-CA-C	-5.27	101.56	109.79
24	V4	516	ILE	CB-CA-C	-5.27	105.14	112.04
26	X1	355	GLU	N-CA-C	-5.24	105.25	111.69
19	Q4	217	SER	CA-C-N	5.23	127.29	120.28
19	Q4	217	SER	C-N-CA	5.23	127.29	120.28
24	V3	516	ILE	CB-CA-C	-5.23	105.19	112.04
19	Q1	193	PHE	CA-CB-CG	-5.22	108.58	113.80
24	V1	516	ILE	CB-CA-C	-5.22	105.21	112.04
24	V2	516	ILE	CB-CA-C	-5.21	105.21	112.04
26	X4	355	GLU	N-CA-C	-5.21	105.28	111.69
21	S3	121	GLU	N-CA-C	5.21	118.66	112.72
26	X2	268	SER	N-CA-C	5.20	119.09	111.34
26	X3	268	SER	N-CA-C	5.20	119.09	111.34
19	Q2	217	SER	CA-C-N	5.20	127.25	120.28
19	Q2	217	SER	C-N-CA	5.20	127.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	Q3	193	PHE	CA-CB-CG	-5.20	108.60	113.80
26	X2	355	GLU	N-CA-C	-5.20	105.30	111.69
26	X1	268	SER	N-CA-C	5.17	119.04	111.34
27	Y4	290	SER	N-CA-C	5.17	117.20	110.53
26	X3	355	GLU	N-CA-C	-5.16	105.34	111.69
27	Y3	59	VAL	N-CA-C	5.16	116.24	111.81
24	V2	206	ASN	CA-C-N	-5.15	114.73	120.45
24	V2	206	ASN	C-N-CA	-5.15	114.73	120.45
26	X4	268	SER	N-CA-C	5.15	119.01	111.34
27	Y1	290	SER	N-CA-C	5.14	117.17	110.53
24	V4	206	ASN	CA-C-N	-5.14	114.74	120.45
24	V4	206	ASN	C-N-CA	-5.14	114.74	120.45
27	Y3	165	LEU	N-CA-C	-5.14	106.52	112.89
24	V2	152	ALA	N-CA-C	5.14	116.75	108.32
24	V3	206	ASN	CA-C-N	-5.14	114.75	120.45
24	V3	206	ASN	C-N-CA	-5.14	114.75	120.45
21	S2	400	GLU	N-CA-C	5.13	117.61	111.71
24	V1	152	ALA	N-CA-C	5.13	116.74	108.32
24	V3	152	ALA	N-CA-C	5.13	116.73	108.32
17	O2	108	VAL	CB-CA-C	-5.12	108.92	114.35
21	S4	88	LEU	CA-C-N	5.12	125.05	119.78
21	S4	88	LEU	C-N-CA	5.12	125.05	119.78
24	V1	206	ASN	CA-C-N	-5.12	114.76	120.45
24	V1	206	ASN	C-N-CA	-5.12	114.76	120.45
24	V4	152	ALA	N-CA-C	5.12	116.72	108.32
21	S1	88	LEU	CA-C-N	5.12	125.05	119.78
21	S1	88	LEU	C-N-CA	5.12	125.05	119.78
27	Y2	165	LEU	N-CA-C	-5.12	106.54	112.89
17	O4	108	VAL	CB-CA-C	-5.12	108.92	114.35
27	Y2	59	VAL	N-CA-C	5.12	116.21	111.81
27	Y2	290	SER	N-CA-C	5.12	117.13	110.53
21	S1	935	LEU	N-CA-C	-5.12	106.31	113.37
24	V2	248	PRO	CA-C-N	-5.11	114.53	122.09
24	V2	248	PRO	C-N-CA	-5.11	114.53	122.09
27	Y4	165	LEU	N-CA-C	-5.11	106.55	112.89
21	S3	935	LEU	N-CA-C	-5.11	106.32	113.37
17	O1	108	VAL	CB-CA-C	-5.11	108.94	114.35
21	S2	935	LEU	N-CA-C	-5.11	106.32	113.37
24	V1	248	PRO	CA-C-N	-5.10	114.54	122.09
24	V1	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

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Y1	165	LEU	N-CA-C	-5.10	106.56	112.89
21	S3	88	LEU	CA-C-N	5.09	125.03	119.78
21	S3	88	LEU	C-N-CA	5.09	125.03	119.78
24	V3	248	PRO	CA-C-N	-5.08	114.56	122.09
24	V3	248	PRO	C-N-CA	-5.08	114.56	122.09
17	O3	108	VAL	CB-CA-C	-5.08	108.97	114.35
27	Y1	59	VAL	N-CA-C	5.08	116.18	111.81
26	X2	625	ALA	CA-C-N	5.08	124.25	118.97
26	X2	625	ALA	C-N-CA	5.08	124.25	118.97
24	V1	328	SER	N-CA-C	-5.07	101.44	109.76
21	S1	400	GLU	N-CA-C	5.07	117.54	111.71
27	Y3	290	SER	N-CA-C	5.07	117.07	110.53
24	V2	328	SER	N-CA-C	-5.06	101.46	109.76
27	Y4	59	VAL	N-CA-C	5.05	116.16	111.81
2	A4	700	ASP	N-CA-C	5.05	117.91	110.59
21	S4	935	LEU	N-CA-C	-5.04	106.41	113.37
26	X1	625	ALA	CA-C-N	5.04	124.21	118.97
26	X1	625	ALA	C-N-CA	5.04	124.21	118.97
2	A2	700	ASP	N-CA-C	5.04	117.90	110.59
21	S2	88	LEU	CA-C-N	5.04	124.97	119.78
21	S2	88	LEU	C-N-CA	5.04	124.97	119.78
26	X1	362	LEU	N-CA-C	5.04	117.89	111.69
24	V4	328	SER	N-CA-C	-5.03	101.52	109.76
26	X3	362	LEU	N-CA-C	5.02	117.87	111.69
21	S3	400	GLU	N-CA-C	5.02	117.48	111.71
24	V3	328	SER	N-CA-C	-5.01	101.54	109.76

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

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Mol	Chain	Res	Type	Group
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	9632	537	0
1	A3	9730	0	9631	480	0
2	A2	9946	0	9773	1900	0
2	A4	9946	0	9778	1962	0
3	A5	10030	0	9896	1498	0
3	A6	10030	0	9914	1574	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B1	111	0	127	2	0
4	B2	111	0	127	25	0
4	B3	111	0	127	2	0
4	B4	111	0	127	25	0
4	B5	111	0	126	46	0
4	B6	111	0	124	60	0
5	C1	138	0	144	32	0
5	C2	157	0	158	272	0
5	C3	138	0	144	10	0
5	C4	157	0	155	374	0
5	C5	138	0	144	23	0
5	C6	138	0	144	23	0
6	D1	5034	0	5006	1053	0
6	D2	5034	0	5030	87	0
6	D3	5034	0	4979	1467	0
6	D4	5034	0	5030	94	0
6	D5	5034	0	5030	57	0
6	D6	5034	0	5030	57	0
6	D7	5034	0	5026	130	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	12914	341	0
8	F2	12779	0	12917	119	0
9	G1	438	0	411	211	0
9	G2	438	0	412	68	0
10	H1	94	0	84	0	0
10	H2	94	0	84	0	0
11	I1	12307	0	12275	3132	0
11	I2	12307	0	12283	3065	0
11	I3	12307	0	12352	481	0
11	I4	12307	0	12359	367	0
11	I5	12307	0	12350	535	0
12	J1	504	0	486	52	0
12	J2	504	0	485	52	0
12	J3	504	0	487	30	0
12	J4	504	0	487	30	0
12	J5	504	0	487	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	1330	700	0
15	M2	1372	0	1361	56	0
15	M3	1372	0	1333	579	0
15	M4	1372	0	1363	5	0
16	N1	1401	0	1376	733	0
16	N2	1401	0	1398	63	0
16	N3	1401	0	1384	612	0
16	N4	1401	0	1398	10	0
17	O1	1971	0	1944	839	0
17	O2	1971	0	1961	388	0
17	O3	1971	0	1937	1111	0
17	O4	1971	0	1963	230	0
18	P1	900	0	910	52	0
18	P2	900	0	910	43	0
18	P3	900	0	908	148	0
18	P4	900	0	907	109	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	314	406	0
20	R2	311	0	334	2	0
20	R3	311	0	314	436	0
20	R4	311	0	334	2	0
21	S1	6013	0	4984	178	0
21	S2	6013	0	4984	177	0
21	S3	6013	0	4984	177	0
21	S4	6013	0	4984	177	0
22	T1	1993	0	1981	79	0
22	T2	1993	0	1981	73	0
22	T3	1993	0	1981	75	0
22	T4	1993	0	1981	71	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	U1	3404	0	3378	84	0
23	U2	3404	0	3378	83	0
23	U3	3404	0	3378	79	0
23	U4	3404	0	3378	82	0
24	V1	3805	0	3499	111	0
24	V2	3805	0	3499	108	0
24	V3	3805	0	3499	114	0
24	V4	3805	0	3499	110	0
25	W1	2160	0	2096	66	0
25	W2	2160	0	2096	74	0
25	W3	2160	0	2096	63	0
25	W4	2160	0	2096	66	0
26	X1	4535	0	4064	390	0
26	X2	4535	0	4071	166	0
26	X3	4535	0	4063	357	0
26	X4	4535	0	4073	146	0
27	Y1	2438	0	2378	74	0
27	Y2	2438	0	2378	75	0
27	Y3	2438	0	2378	76	0
27	Y4	2438	0	2378	75	0
28	Z1	6622	0	5893	624	0
28	Z2	6622	0	5882	1025	0
28	Z3	6622	0	5893	621	0
28	Z4	6622	0	5872	1352	0
29	a1	2587	0	2488	38	0
29	a2	2587	0	2488	73	0
29	a3	2587	0	2488	36	0
29	a4	2587	0	2488	51	0
30	b1	2638	0	2573	610	0
30	b2	2638	0	2573	602	0
30	b3	2638	0	2573	609	0
30	b4	2638	0	2573	610	0
All	All	358888	0	346683	20457	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 29.

All (20457) 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)
27:Y2:41:ASP:HB3	29:a2:231[B]:HIS:CE1	1.17	1.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:524:VAL:HG13	30:b1:236:THR:CB	1.22	1.68
11:I3:1267:LEU:HD22	26:X1:497:ARG:CZ	1.20	1.68
3:A6:1369:ILE:HA	28:Z4:826:TYR:CB	1.23	1.67
8:F1:1262:HIS:CE1	17:O2:259:ASP:HB2	1.26	1.67
11:I1:1052:LEU:CB	16:N1:438:LEU:HD11	1.18	1.66
27:Y3:41:ASP:HB3	29:a3:231[B]:HIS:CE1	1.17	1.66
1:A1:870:HIS:HB3	6:D3:279:HIS:CG	1.31	1.65
28:Z3:551:THR:CG2	30:b3:233:TRP:CZ3	1.79	1.65
2:A2:970:PHE:HA	6:D1:192:TYR:CZ	1.25	1.65
11:I2:1024:PHE:HB2	16:N3:406:HIS:CG	1.21	1.65
27:Y4:41:ASP:HB3	29:a4:231[B]:HIS:CE1	1.17	1.65
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CG	1.25	1.65
28:Z2:551:THR:CG2	30:b2:233:TRP:CZ3	1.79	1.64
3:A6:1409:MSE:SE	28:Z4:917:ASP:HA	1.45	1.64
8:F1:1138:TRP:CB	17:O2:244:GLU:HB3	1.22	1.64
8:F1:1203:TRP:CH2	17:O2:248:SER:HA	1.12	1.64
11:I1:1040:HIS:CD2	16:N1:437:VAL:HG21	1.24	1.64
11:I3:1267:LEU:HD11	26:X1:529:TRP:CE3	1.12	1.64
27:Y1:41:ASP:HB3	29:a1:231[B]:HIS:CE1	1.17	1.64
2:A2:870:HIS:CD2	6:D1:566:PHE:CD1	1.86	1.64
2:A4:976:LEU:HD13	6:D3:472:PHE:CE2	1.31	1.64
2:A4:983:LEU:HB2	6:D3:528:PHE:CZ	1.19	1.64
11:I1:950:LEU:HD22	16:N1:406:HIS:CD2	1.27	1.64
11:I1:967:SER:CB	15:M1:625:GLY:HA2	1.16	1.63
11:I2:981:VAL:CA	20:R3:147:LEU:HD21	1.24	1.63
2:A4:868:GLN:CA	6:D3:570:VAL:HG11	1.16	1.63
11:I1:924:ILE:HD13	15:M1:595:MET:CG	1.21	1.63
11:I2:891:LEU:CD1	16:N3:393:ILE:HD12	1.29	1.63
11:I4:1277:LEU:HD12	26:X3:521:TRP:CD2	1.28	1.63
11:I4:1279:THR:CG2	26:X3:523:LEU:HB2	1.17	1.63
8:F1:1261:TYR:CE2	17:O2:260:LEU:HA	1.29	1.63
11:I2:948:ALA:HB2	17:O3:256:TYR:CB	1.25	1.63
11:I3:1275:SER:CB	26:X1:522:MET:HA	1.17	1.63
2:A4:975:GLU:CA	6:D3:499:LEU:HB2	1.25	1.63
2:A4:983:LEU:HG	6:D3:528:PHE:CE1	1.28	1.62
28:Z2:524:VAL:CG1	30:b2:236:THR:HG22	1.20	1.63
11:I1:927:HIS:CD2	15:M1:594:LYS:HA	1.11	1.62
11:I1:937:TYR:HB3	17:O1:258:GLU:CA	1.26	1.62
11:I1:1021:ILE:CG1	16:N1:410:MET:HB2	1.27	1.62
11:I2:938:CYS:SG	15:M3:606:LEU:HD12	1.34	1.62
2:A2:974:PRO:CD	6:D1:205:LEU:HD23	1.22	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1026:PRO:CB	11:I5:73:TYR:CD1	1.79	1.62
11:I1:1108:PRO:HG3	16:N1:443:GLU:CB	1.28	1.62
11:I2:874:LEU:CA	17:O3:255:GLY:HA3	1.20	1.62
3:A5:1368:GLN:CB	28:Z2:841:ALA:HA	1.24	1.62
11:I1:1052:LEU:CB	16:N1:438:LEU:CD1	1.75	1.62
28:Z4:410:ASN:HB2	30:b4:251:ILE:CD1	1.25	1.62
28:Z2:524:VAL:HG13	30:b2:236:THR:CB	1.22	1.62
28:Z3:410:ASN:HB2	30:b3:251:ILE:CD1	1.25	1.62
1:A1:1332:ARG:CG	6:D1:636:ASP:HB3	1.19	1.61
11:I1:1041:GLN:HB3	15:M1:620:VAL:CG2	1.24	1.61
11:I2:834:SER:CB	17:O3:237:PRO:HA	1.24	1.61
3:A6:1364:GLN:HB3	28:Z4:846:SER:CA	1.21	1.61
11:I1:1037:THR:CG2	20:R1:173:LEU:CD2	1.79	1.61
11:I2:884:LEU:HD12	16:N3:400:LEU:CD1	1.14	1.61
2:A4:975:GLU:HB3	6:D3:501:LEU:CG	1.29	1.61
28:Z1:528:ILE:CG1	30:b1:210:ARG:HH12	1.02	1.60
11:I1:996:LEU:CD2	16:N1:410:MET:CE	1.76	1.60
17:O4:110:LEU:CD2	18:P4:321:ILE:H	1.04	1.60
2:A2:989:MSE:CE	6:D1:240:ASP:CA	1.78	1.60
2:A4:1129:PRO:CA	3:A6:142:GLU:HG3	1.14	1.60
2:A2:974:PRO:HD2	6:D1:205:LEU:CD2	1.30	1.60
11:I1:922:ASP:H	15:M1:592:LEU:CD2	1.01	1.60
28:Z2:528:ILE:CG1	30:b2:210:ARG:HH12	1.02	1.60
3:A6:1312:ARG:HH21	28:Z4:829:SER:CB	1.03	1.59
11:I1:880:MET:HE2	17:O1:247:TRP:CE3	1.37	1.59
11:I1:884:LEU:CD1	16:N1:396:ILE:HG22	1.22	1.59
11:I1:1024:PHE:CB	16:N1:406:HIS:HB2	1.14	1.59
11:I2:1101:LEU:CD2	16:N3:432:TYR:CD1	1.80	1.59
11:I3:1267:LEU:HD21	26:X1:529:TRP:CZ3	1.36	1.59
2:A2:980:ARG:HH21	6:D1:503:LEU:CB	1.12	1.59
3:A5:1026:PRO:CB	11:I5:73:TYR:HD1	1.12	1.59
3:A6:1409:MSE:HB2	28:Z4:920:SER:CB	1.23	1.59
11:I1:981:VAL:CG1	20:R1:151:LYS:HB2	1.15	1.59
2:A4:986:THR:CG2	6:D3:504:LYS:CG	1.80	1.59
11:I1:846:ILE:HG22	17:O1:247:TRP:CZ2	1.33	1.59
28:Z1:524:VAL:CG1	30:b1:236:THR:HG22	1.20	1.59
28:Z3:524:VAL:HG13	30:b3:236:THR:CB	1.22	1.59
11:I1:846:ILE:HD12	15:M1:594:LYS:CD	1.21	1.59
11:I2:836:VAL:CG1	17:O3:244:GLU:HB3	1.31	1.59
11:I2:898:VAL:CG2	17:O3:237:PRO:HD3	1.24	1.59
11:I3:1278:ALA:H	26:X1:519:ILE:CG2	1.16	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1204:TRP:CE3	2:A2:734:LEU:HD13	1.36	1.58
1:A3:1204:TRP:CB	2:A4:731:ILE:HG23	1.19	1.58
11:I1:884:LEU:CD2	16:N1:396:ILE:HG21	1.33	1.58
11:I1:919:ALA:HB2	16:N1:389:PHE:C	1.25	1.58
11:I2:989:GLY:HA3	15:M3:614:ASP:CG	1.25	1.58
11:I1:1052:LEU:HB2	16:N1:438:LEU:CD1	1.25	1.58
2:A4:879:LEU:HD12	6:D3:564:ASN:CG	1.19	1.58
8:F1:158:PRO:CG	11:I1:1207:PRO:HD3	1.31	1.58
11:I2:957:SER:CB	20:R3:168:LEU:HA	1.16	1.58
8:F1:1138:TRP:HB2	17:O2:244:GLU:CB	1.16	1.58
11:I1:1049:LEU:CD1	15:M1:626:HIS:CD2	1.86	1.58
11:I3:1267:LEU:CD2	26:X1:497:ARG:CZ	1.76	1.58
28:Z1:551:THR:CG2	30:b1:233:TRP:CZ3	1.79	1.58
11:I2:957:SER:HB2	20:R3:168:LEU:CA	1.25	1.58
11:I2:1021:ILE:HG12	16:N3:410:MET:CE	1.25	1.58
28:Z3:524:VAL:CG1	30:b3:236:THR:HG22	1.19	1.58
3:A6:1351:MSE:HB2	28:Z4:917:ASP:C	1.19	1.57
11:I1:916:ALA:HB3	15:M1:586:ASP:CA	1.24	1.57
11:I2:993:SER:CB	16:N3:430:ARG:HH12	0.99	1.57
2:A2:1143:LEU:HG	3:A5:131:PRO:CA	1.22	1.57
2:A4:1139:ILE:H	3:A6:138:LEU:CD1	1.15	1.57
3:A6:1351:MSE:HB3	28:Z4:918:PHE:CA	1.17	1.57
11:I1:880:MET:HB2	17:O1:250:LEU:CB	1.24	1.57
11:I1:1021:ILE:HD11	16:N1:410:MET:CG	1.29	1.57
11:I2:834:SER:HB3	17:O3:237:PRO:CA	1.30	1.57
11:I2:836:VAL:HG12	17:O3:244:GLU:CB	1.16	1.57
11:I4:1275:SER:H	26:X3:525:ILE:CB	1.11	1.57
28:Z3:528:ILE:CG1	30:b3:210:ARG:HH12	1.02	1.57
28:Z4:524:VAL:CG1	30:b4:236:THR:HG22	1.20	1.57
2:A2:1159:ASP:CB	3:A5:175:GLU:CD	1.74	1.56
11:I1:1048:GLU:CD	20:R1:143:PHE:HD1	1.04	1.56
11:I1:1104:LEU:CD2	20:R1:174:ARG:HD2	1.33	1.56
28:Z4:410:ASN:CA	30:b4:251:ILE:HD12	1.32	1.56
3:A6:165:PHE:CE2	5:C4:743:LEU:HD21	1.36	1.56
3:A6:1316:VAL:HG21	28:Z4:871:HIS:CB	1.25	1.56
3:A6:1335:ALA:CA	28:Z4:962:LYS:CB	1.81	1.56
11:I2:1101:LEU:HD23	16:N3:432:TYR:CD1	1.29	1.56
11:I3:1275:SER:N	26:X1:508:LEU:CD2	1.68	1.56
2:A4:872:ALA:HB1	6:D3:565:MET:CE	1.28	1.56
11:I1:1667:GLN:CG	11:I2:1665:LEU:HG	1.35	1.56
28:Z4:528:ILE:CG1	30:b4:210:ARG:HH12	1.02	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1026:PRO:CG	11:I5:73:TYR:CD1	1.86	1.56
11:I1:880:MET:CB	17:O1:250:LEU:HB3	1.32	1.56
11:I1:884:LEU:HD12	16:N1:400:LEU:CD1	1.31	1.56
11:I2:966:TRP:CZ3	20:R3:167:GLN:NE2	1.70	1.56
11:I2:1024:PHE:HB3	16:N3:406:HIS:CE1	1.37	1.56
11:I4:1274:HIS:CE1	26:X3:531:LEU:HG	1.39	1.56
11:I1:916:ALA:CB	15:M1:586:ASP:HA	1.22	1.56
11:I1:1669:ARG:HB2	11:I2:1664:PHE:CE1	1.39	1.56
2:A2:980:ARG:NH1	6:D1:525:ARG:CB	1.68	1.55
2:A4:868:GLN:HB3	6:D3:570:VAL:CB	1.29	1.55
2:A4:878:LEU:CB	6:D3:567:LEU:HD13	1.31	1.55
3:A5:993:ASN:C	11:I5:57:GLU:CG	1.75	1.55
8:F1:1261:TYR:CZ	17:O2:260:LEU:HA	1.05	1.55
11:I1:833:PHE:CE2	17:O1:238:ALA:HA	1.07	1.55
11:I1:846:ILE:HD12	15:M1:594:LYS:CE	1.15	1.55
3:A6:1405:LEU:HD13	28:Z4:921:THR:CB	1.31	1.55
11:I1:884:LEU:CD1	16:N1:396:ILE:CG2	1.81	1.55
11:I1:953:LEU:N	16:N1:403:VAL:CG2	1.68	1.55
11:I2:846:ILE:HG22	17:O3:247:TRP:CH2	1.39	1.55
28:Z1:410:ASN:HB2	30:b1:251:ILE:CD1	1.25	1.55
2:A2:1143:LEU:CG	3:A5:131:PRO:CA	1.77	1.55
2:A4:909:LYS:HG2	6:D3:552:TYR:CE2	1.37	1.55
2:A4:1159:ASP:CA	4:B6:342:ARG:N	1.69	1.55
11:I2:966:TRP:HZ3	20:R3:167:GLN:CG	1.17	1.55
28:Z2:410:ASN:HB2	30:b2:251:ILE:CD1	1.25	1.55
8:F1:1203:TRP:CZ2	17:O2:248:SER:HA	1.39	1.55
11:I2:948:ALA:CB	17:O3:256:TYR:HB3	1.10	1.55
11:I2:1186:PRO:CG	17:O4:225:GLN:HE21	1.16	1.54
28:Z1:524:VAL:CB	30:b1:236:THR:HG22	1.35	1.54
11:I1:846:ILE:HD13	15:M1:594:LYS:CB	1.19	1.54
11:I1:883:ALA:HB3	17:O1:246:LEU:CB	1.28	1.54
11:I1:1026:TYR:CE2	20:R1:175:GLN:NE2	1.72	1.54
3:A5:1098:ARG:CZ	11:I5:29:GLN:HG2	1.31	1.54
11:I1:990:GLU:CG	17:O1:275:LEU:HD23	1.33	1.54
11:I1:1037:THR:HG21	20:R1:173:LEU:CB	1.20	1.54
11:I2:1039:ALA:CB	20:R3:170:LEU:CB	1.82	1.54
28:Z4:524:VAL:HG13	30:b4:236:THR:CB	1.22	1.54
2:A4:986:THR:CB	6:D3:504:LYS:HD3	1.08	1.54
2:A4:1155:ASN:H	3:A6:175:GLU:CB	1.20	1.54
3:A6:1364:GLN:CB	28:Z4:846:SER:HA	1.16	1.54
11:I1:1104:LEU:HD23	20:R1:174:ARG:CD	1.29	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1279:THR:HG21	26:X3:523:LEU:CA	1.12	1.54
11:I3:1275:SER:HB3	26:X1:522:MET:CA	1.11	1.54
1:A1:1224:PRO:HD3	2:A2:731:ILE:CD1	1.33	1.53
11:I2:981:VAL:HB	20:R3:147:LEU:CD2	1.38	1.53
28:Z4:551:THR:CG2	30:b4:233:TRP:CZ3	1.79	1.53
8:F1:1137:GLN:NE2	17:O2:249:ARG:CB	1.71	1.53
1:A1:1098:ARG:HH22	11:I1:1478:VAL:CG1	1.19	1.53
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CZ	1.35	1.53
11:I2:942:HIS:HB2	17:O3:259:ASP:C	1.22	1.53
28:Z2:401:THR:CB	30:b2:253:SER:C	1.82	1.53
28:Z4:524:VAL:CB	30:b4:236:THR:HG22	1.35	1.53
2:A2:986:THR:HG21	6:D1:504:LYS:CD	1.35	1.53
3:A5:1027:HIS:CE1	11:I5:65:LYS:CB	1.91	1.53
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CB	1.38	1.53
11:I1:976:ARG:CB	20:R1:149:ARG:HB3	1.34	1.53
11:I2:998:ALA:CB	17:O3:267:ALA:HB2	1.34	1.53
2:A4:982:THR:CG2	6:D3:496:LEU:N	1.68	1.53
3:A6:163:SER:C	5:C4:743:LEU:HG	1.31	1.53
3:A6:1351:MSE:HE1	28:Z4:912:ASP:C	1.23	1.53
3:A6:1399:ARG:HB2	28:Z4:890:ARG:CB	1.31	1.53
11:I1:996:LEU:CD2	16:N1:410:MET:HE2	1.09	1.53
2:A2:780:GLU:HB2	6:D1:677:GLN:C	1.26	1.52
11:I1:1665:LEU:CG	11:I2:1667:GLN:HG2	1.37	1.52
11:I3:1267:LEU:CD1	26:X1:529:TRP:CE3	1.92	1.52
11:I3:1267:LEU:CB	26:X1:497:ARG:NH1	1.72	1.52
28:Z1:410:ASN:CA	30:b1:251:ILE:HD12	1.32	1.52
1:A3:1054:SER:C	6:D3:809:ALA:HB1	1.28	1.52
2:A4:986:THR:CG2	6:D3:504:LYS:CD	1.82	1.52
3:A6:189:VAL:CG2	5:C4:745:SER:HB3	1.33	1.52
8:F1:1137:GLN:CD	17:O2:249:ARG:H	1.16	1.52
11:I4:1279:THR:CG2	26:X3:523:LEU:CB	1.78	1.52
18:P1:276:SER:HB2	18:P4:322:LYS:CE	1.08	1.52
11:I1:877:ILE:HG21	17:O1:253:LEU:CA	1.40	1.52
28:Z3:742:GLU:CB	30:b3:135:ASN:HD22	1.22	1.52
2:A2:982:THR:HG21	6:D1:494:LEU:C	1.20	1.52
8:F1:1261:TYR:CE2	17:O2:260:LEU:CA	1.87	1.52
28:Z2:410:ASN:CA	30:b2:251:ILE:HD12	1.32	1.52
28:Z3:401:THR:CB	30:b3:253:SER:C	1.82	1.52
2:A4:869:ALA:N	6:D3:570:VAL:CG1	1.69	1.52
28:Z3:410:ASN:CA	30:b3:251:ILE:HD12	1.32	1.52
28:Z4:742:GLU:CB	30:b4:135:ASN:HD22	1.22	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:868:GLN:HG2	6:D3:608:ILE:CD1	1.08	1.51
3:A6:1319:ILE:HG21	28:Z4:874:ASN:CB	1.38	1.51
11:I2:891:LEU:CD1	16:N3:393:ILE:CD1	1.86	1.51
11:I3:1276:GLN:NE2	26:X1:535:ALA:CA	1.71	1.51
28:Z2:524:VAL:CB	30:b2:236:THR:HG22	1.35	1.51
11:I1:833:PHE:CE2	17:O1:238:ALA:CA	1.93	1.51
18:P2:320:GLN:CG	18:P3:278:ASN:HB2	1.33	1.51
28:Z1:401:THR:CB	30:b1:253:SER:C	1.82	1.51
1:A3:1223:GLU:CG	2:A4:734:LEU:HD11	1.37	1.51
2:A4:864:ARG:HB2	6:D3:607:PRO:CD	1.21	1.51
3:A5:1101:GLN:HE22	11:I5:33:THR:CG2	1.20	1.51
3:A5:1374:ALA:CB	28:Z2:823:ALA:CB	1.89	1.51
11:I1:927:HIS:HD2	15:M1:594:LYS:CA	1.22	1.51
11:I1:1024:PHE:HB2	16:N1:406:HIS:CB	1.37	1.51
11:I2:1039:ALA:CA	20:R3:170:LEU:CG	1.87	1.51
28:Z3:524:VAL:CB	30:b3:236:THR:HG22	1.35	1.51
28:Z3:526:ARG:HB3	30:b3:206:ASN:CG	1.14	1.51
1:A1:870:HIS:CB	6:D3:279:HIS:ND1	1.71	1.51
2:A4:868:GLN:CB	6:D3:570:VAL:HG11	1.37	1.51
3:A6:1391:ARG:HD2	28:Z4:869:HIS:N	1.24	1.51
11:I1:1037:THR:CB	20:R1:173:LEU:CD2	1.80	1.51
11:I2:1040:HIS:CE1	15:M3:623:LEU:HD11	1.38	1.51
2:A2:1054:SER:C	6:D2:762:ARG:HB3	1.25	1.50
11:I1:841:PHE:CZ	17:O1:243:LEU:HD11	1.42	1.50
11:I1:952:LEU:CD1	16:N1:400:LEU:CD2	1.84	1.50
11:I2:894:VAL:CG1	17:O3:236:ASP:C	1.82	1.50
11:I2:955:LYS:H	16:N3:403:VAL:CG2	0.89	1.50
1:A1:870:HIS:HB2	6:D3:279:HIS:C	1.29	1.50
2:A4:970:PHE:N	6:D3:202:GLN:CG	1.69	1.50
3:A5:1029:ILE:CG2	11:I5:70:GLU:N	1.70	1.50
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CA	1.22	1.50
3:A6:1358:LEU:HD22	28:Z4:875:LEU:C	1.30	1.50
1:A1:870:HIS:C	6:D3:279:HIS:HB3	1.26	1.50
2:A4:875:LEU:CD1	6:D3:567:LEU:HD23	1.05	1.50
11:I1:1020:ALA:HA	16:N1:405:ALA:C	1.35	1.50
11:I2:1109:LEU:HB2	17:O3:290:TYR:CE2	1.46	1.50
28:Z2:526:ARG:HB3	30:b2:206:ASN:CG	1.14	1.50
28:Z2:742:GLU:CB	30:b2:135:ASN:HD22	1.22	1.50
2:A4:1156:ASP:CB	3:A6:176:LEU:HD23	1.42	1.50
3:A5:1098:ARG:NE	11:I5:29:GLN:CG	1.70	1.50
11:I2:976:ARG:HH12	15:M3:622:VAL:CG2	1.25	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:HA3	15:M1:591:ASP:C	1.28	1.50
11:I2:1024:PHE:HB3	16:N3:406:HIS:ND1	1.20	1.50
2:A2:986:THR:CG2	6:D1:504:LYS:HD3	1.09	1.49
2:A4:970:PHE:C	6:D3:202:GLN:HG2	1.35	1.49
3:A5:1094:ILE:CG2	11:I5:4:LEU:HB2	1.06	1.49
4:B6:345:LYS:CB	5:C4:737:LYS:HE3	1.38	1.49
11:I1:884:LEU:CD2	16:N1:396:ILE:CG2	1.90	1.49
11:I1:919:ALA:HB2	16:N1:389:PHE:CA	1.42	1.49
2:A2:989:MSE:HE3	6:D1:240:ASP:CA	1.37	1.49
2:A2:1159:ASP:HB2	3:A5:175:GLU:CD	1.32	1.49
11:I1:981:VAL:CB	20:R1:147:LEU:HG	1.35	1.49
28:Z1:526:ARG:HB3	30:b1:206:ASN:CG	1.14	1.49
28:Z1:742:GLU:CB	30:b1:135:ASN:HD22	1.22	1.49
6:D7:531:LEU:N	11:I3:181:GLN:CB	1.72	1.49
11:I1:1039:ALA:H	20:R1:169:GLY:CA	1.18	1.49
11:I1:934:LEU:HA	15:M1:602:MET:CE	1.37	1.49
17:O3:148:ARG:CZ	18:P3:325:ILE:HG22	1.41	1.49
1:A1:1201:ARG:NH1	2:A2:734:LEU:CG	1.76	1.49
2:A2:968:SER:HA	6:D1:201:LEU:C	1.36	1.49
3:A6:230:LYS:HB2	5:C4:739:MET:CE	1.38	1.49
11:I1:923:GLY:CA	15:M1:592:LEU:N	1.73	1.49
11:I2:895:ARG:NH2	16:N3:386:MET:CG	1.75	1.49
11:I2:1017:VAL:HG23	16:N3:411:GLN:CA	1.37	1.49
11:I2:1020:ALA:CB	16:N3:410:MET:H	1.24	1.49
3:A6:1358:LEU:CD2	28:Z4:875:LEU:C	1.84	1.48
8:F1:158:PRO:HG3	11:I1:1207:PRO:CD	1.43	1.48
8:F1:1137:GLN:HA	17:O2:248:SER:CB	1.29	1.48
11:I1:880:MET:CB	17:O1:250:LEU:CB	1.85	1.48
11:I1:1041:GLN:CB	15:M1:620:VAL:HG23	1.03	1.48
11:I2:1040:HIS:ND1	15:M3:623:LEU:CD1	1.74	1.48
28:Z1:524:VAL:HG13	30:b1:236:THR:CG2	1.02	1.48
1:A1:1399:ARG:HG2	2:A2:884:ARG:CG	1.19	1.48
11:I1:927:HIS:CD2	15:M1:594:LYS:CA	1.94	1.48
11:I1:1669:ARG:CB	11:I2:1664:PHE:CE1	1.89	1.48
11:I2:1059:PRO:HB2	17:O3:274:GLY:C	1.33	1.48
11:I2:1109:LEU:CB	17:O3:290:TYR:HE2	1.26	1.48
28:Z1:561:GLN:HB2	30:b1:236:THR:N	1.28	1.48
28:Z4:524:VAL:HG13	30:b4:236:THR:CG2	1.02	1.48
2:A4:878:LEU:HB2	6:D3:567:LEU:CD1	1.39	1.48
3:A6:173:ASN:CB	5:C4:730:HIS:N	1.71	1.48
8:F1:1137:GLN:CB	17:O2:248:SER:H	1.23	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1155:ASN:CA	3:A5:175:GLU:HG2	1.26	1.48
3:A6:1351:MSE:HB2	28:Z4:917:ASP:CA	1.42	1.48
3:A6:1392:ARG:HE	28:Z4:901:ARG:CB	1.23	1.48
11:I1:952:LEU:C	16:N1:403:VAL:CG2	1.87	1.48
11:I1:1037:THR:HG22	20:R1:173:LEU:CD2	1.32	1.48
11:I2:959:SER:N	20:R3:166:LEU:CD1	1.71	1.48
28:Z1:524:VAL:CG1	30:b1:236:THR:CG2	1.76	1.48
28:Z4:526:ARG:HB3	30:b4:206:ASN:CG	1.14	1.48
11:I2:955:LYS:N	16:N3:403:VAL:HG23	1.18	1.48
11:I4:1279:THR:HG21	26:X3:523:LEU:C	1.38	1.48
1:A1:1224:PRO:CD	2:A2:731:ILE:HD13	1.40	1.47
1:A1:1399:ARG:CG	2:A2:884:ARG:HG2	1.39	1.47
9:G1:263:MET:HA	16:N2:411:GLN:CB	1.41	1.47
11:I1:1109:LEU:H	16:N1:441:PHE:N	1.11	1.47
11:I2:998:ALA:HB3	17:O3:267:ALA:CB	1.42	1.47
11:I2:1109:LEU:HD13	17:O3:290:TYR:CE2	1.49	1.47
28:Z2:524:VAL:HG13	30:b2:236:THR:CG2	1.02	1.47
28:Z3:561:GLN:HB2	30:b3:236:THR:N	1.28	1.47
1:A1:870:HIS:CG	6:D3:279:HIS:ND1	1.81	1.47
2:A2:979:GLY:HA2	6:D1:472:PHE:CB	0.99	1.47
2:A2:1164:TYR:CA	4:B5:342:ARG:HE	1.20	1.47
3:A5:1414:PHE:HA	28:Z2:960:CYS:CB	1.18	1.47
11:I2:947:LEU:HD21	16:N3:411:GLN:CG	1.35	1.47
11:I4:1279:THR:CG2	26:X3:524:SER:N	1.77	1.47
3:A6:1358:LEU:CD2	28:Z4:875:LEU:CA	1.91	1.47
28:Z2:410:ASN:CB	30:b2:251:ILE:HD12	1.00	1.47
2:A2:989:MSE:CG	6:D1:500:LYS:HD2	1.00	1.47
2:A4:781:ARG:CZ	6:D3:633:LYS:HE2	1.44	1.47
2:A4:875:LEU:HD12	6:D3:567:LEU:CD2	1.00	1.47
3:A6:1412:MSE:HG2	28:Z4:965:TYR:CB	1.41	1.47
11:I2:981:VAL:N	20:R3:147:LEU:HD11	1.15	1.47
11:I3:1277:LEU:HD11	26:X1:511:TYR:CD2	1.46	1.47
2:A4:975:GLU:HB3	6:D3:501:LEU:CD1	1.44	1.47
8:F2:1137:GLN:CB	17:O4:251:ILE:HD13	1.43	1.47
11:I2:1040:HIS:CE1	15:M3:623:LEU:CD1	1.94	1.47
11:I4:1279:THR:HG21	26:X3:523:LEU:CB	1.35	1.47
28:Z1:410:ASN:CB	30:b1:251:ILE:HD12	1.00	1.47
3:A5:1369:ILE:CG2	28:Z2:830:LEU:CB	1.91	1.46
11:I1:833:PHE:CD2	17:O1:238:ALA:HA	1.48	1.46
11:I1:976:ARG:NH1	15:M1:622:VAL:CG1	1.75	1.46
11:I2:1024:PHE:CB	16:N3:406:HIS:CG	1.94	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:401:THR:CB	30:b4:253:SER:C	1.82	1.46
2:A2:865:ALA:N	6:D1:607:PRO:HD2	1.31	1.46
3:A5:1395:LYS:CB	28:Z2:873:LEU:CB	1.93	1.46
11:I1:983:LEU:C	15:M1:617:THR:CG2	1.80	1.46
11:I2:900:ARG:N	17:O3:232:LYS:HG2	1.23	1.46
28:Z3:524:VAL:HG13	30:b3:236:THR:CG2	1.02	1.46
1:A3:1098:ARG:HB3	11:I2:1414:CYS:SG	1.53	1.46
11:I1:950:LEU:CD2	16:N1:406:HIS:CD2	1.96	1.46
11:I2:896:PRO:CA	17:O3:233:THR:HA	1.43	1.46
11:I2:977:ASN:CB	20:R3:150:ASN:CB	1.91	1.46
1:A3:1021:LEU:HB3	6:D3:816:VAL:CG1	1.03	1.46
11:I1:1035:GLN:C	16:N1:441:PHE:CZ	1.92	1.46
11:I3:1277:LEU:HD11	26:X1:511:TYR:CE2	1.50	1.46
11:I3:1278:ALA:N	26:X1:519:ILE:HG22	1.25	1.46
2:A2:979:GLY:CA	6:D1:472:PHE:CB	1.91	1.46
2:A4:876:ARG:CD	6:D3:558:LYS:HA	0.99	1.46
3:A6:1369:ILE:CA	28:Z4:826:TYR:CB	1.91	1.46
11:I1:1029:LEU:HG	20:R1:171:ALA:CA	1.08	1.46
11:I1:1037:THR:CG2	20:R1:173:LEU:CB	1.90	1.46
28:Z3:410:ASN:CB	30:b3:251:ILE:HD12	1.00	1.46
2:A4:983:LEU:HD22	6:D3:497:PHE:CZ	1.49	1.45
8:F1:1137:GLN:CG	17:O2:249:ARG:H	1.29	1.45
11:I1:1029:LEU:CD1	20:R1:171:ALA:HA	1.43	1.45
11:I2:947:LEU:CD2	16:N3:411:GLN:HG2	1.21	1.45
11:I2:1039:ALA:CA	20:R3:170:LEU:HG	1.40	1.45
11:I4:1279:THR:HG22	26:X3:524:SER:N	1.24	1.45
17:O3:155:VAL:HG23	18:P3:321:ILE:CD1	1.42	1.45
3:A5:1374:ALA:HB3	28:Z2:824:PHE:N	1.30	1.45
3:A6:1335:ALA:HA	28:Z4:962:LYS:CB	1.36	1.45
11:I1:846:ILE:CD1	15:M1:594:LYS:HE3	1.41	1.45
11:I1:1669:ARG:CB	11:I2:1664:PHE:CZ	1.89	1.45
11:I2:1040:HIS:ND1	15:M3:623:LEU:HD13	1.16	1.45
28:Z4:410:ASN:CB	30:b4:251:ILE:HD12	1.00	1.45
2:A4:986:THR:HG21	6:D3:504:LYS:CG	0.99	1.45
8:F1:1205:TRP:CD1	17:O2:254:ARG:HD2	1.52	1.45
11:I1:937:TYR:CB	17:O1:258:GLU:HA	1.44	1.45
3:A6:1334:GLY:CA	28:Z4:961:PHE:CB	1.89	1.45
11:I1:840:LEU:HG	17:O1:244:GLU:CG	1.14	1.45
11:I1:1026:TYR:CD2	20:R1:175:GLN:NE2	1.82	1.45
11:I2:1037:THR:CG2	20:R3:169:GLY:HA2	1.41	1.45
3:A6:1351:MSE:H	28:Z4:917:ASP:CB	1.26	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:911:PRO:CB	15:M3:584:GLN:NE2	1.80	1.45
11:I2:965:ALA:CB	20:R3:164:PRO:HA	1.45	1.45
28:Z4:551:THR:HG22	30:b4:233:TRP:CZ3	0.92	1.45
3:A5:1395:LYS:HG2	28:Z2:873:LEU:N	1.17	1.44
11:I1:920:PHE:CE1	17:O1:247:TRP:NE1	1.83	1.44
11:I1:952:LEU:CD1	16:N1:400:LEU:HD21	1.41	1.44
11:I1:981:VAL:HB	20:R1:147:LEU:CG	1.04	1.44
11:I1:1108:PRO:CG	16:N1:443:GLU:HB3	1.47	1.44
11:I1:1605:LEU:HD13	11:I2:1669:ARG:CD	1.44	1.44
11:I2:887:GLN:NE2	16:N3:393:ILE:HA	1.25	1.44
11:I2:894:VAL:CB	17:O3:239:GLN:H	1.14	1.44
28:Z3:524:VAL:CG1	30:b3:236:THR:CG2	1.75	1.44
11:I2:1042:LEU:O	16:N3:430:ARG:CZ	1.64	1.44
17:O3:148:ARG:NH1	18:P3:325:ILE:HG22	1.25	1.44
28:Z1:410:ASN:ND2	30:b1:252:ALA:HB2	1.32	1.44
28:Z1:528:ILE:CG1	30:b1:210:ARG:NH1	1.79	1.44
28:Z2:551:THR:HG22	30:b2:233:TRP:CZ3	0.92	1.44
28:Z3:411:LEU:N	30:b3:251:ILE:HD13	1.11	1.44
1:A1:1087:GLY:CA	6:D1:797:GLY:O	1.64	1.44
2:A2:976:LEU:CB	6:D1:496:LEU:CD2	1.79	1.44
2:A2:1121:LEU:C	3:A5:133:LYS:CG	1.91	1.44
1:A3:835:THR:HG21	6:D1:302:PRO:CB	1.46	1.44
3:A6:1358:LEU:HD22	28:Z4:875:LEU:CA	1.21	1.44
8:F2:1049:GLN:NE2	17:O4:237:PRO:HB3	1.32	1.44
11:I2:948:ALA:N	17:O3:256:TYR:HD2	1.05	1.44
11:I2:980:ILE:HB	15:M3:618:GLN:CA	1.38	1.44
11:I3:1271:GLU:HB3	26:X1:525:ILE:CG2	1.46	1.44
28:Z4:561:GLN:HB2	30:b4:236:THR:N	1.28	1.44
1:A1:1201:ARG:CZ	2:A2:734:LEU:HG	1.44	1.44
2:A2:870:HIS:NE2	6:D1:566:PHE:CD1	1.84	1.44
1:A3:1220:PRO:HA	2:A4:646:ILE:CD1	1.29	1.44
2:A4:973:GLU:O	6:D3:499:LEU:CD2	1.65	1.44
3:A5:1391:ARG:CB	28:Z2:867:LYS:O	1.65	1.44
8:F1:1261:TYR:HE2	17:O2:260:LEU:N	1.02	1.44
8:F1:1261:TYR:CD1	17:O2:263:GLN:HB2	1.50	1.44
11:I1:883:ALA:CB	17:O1:246:LEU:CB	1.92	1.44
28:Z3:551:THR:HG22	30:b3:233:TRP:CZ3	0.92	1.44
2:A2:869:ALA:CB	6:D1:574:VAL:HG23	1.45	1.44
2:A2:870:HIS:CD2	6:D1:551:PHE:HB3	1.49	1.44
2:A2:980:ARG:NH2	6:D1:503:LEU:CB	1.77	1.44
1:A3:1233:GLN:NE2	2:A4:726:ALA:HB2	1.19	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:876:ARG:HD2	6:D3:558:LYS:C	1.42	1.44
2:A4:1159:ASP:HA	4:B6:342:ARG:N	1.11	1.44
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CB	1.47	1.44
3:A6:180:GLU:HA	5:C4:744:PHE:CZ	1.52	1.44
11:I2:944:GLU:HA	17:O3:256:TYR:CE1	1.51	1.44
11:I3:1275:SER:N	26:X1:508:LEU:HD21	1.23	1.44
2:A2:1135:ARG:CA	3:A5:147:LEU:CD2	1.80	1.43
2:A4:780:GLU:OE2	6:D3:679:ILE:CD1	1.64	1.43
3:A5:1395:LYS:CG	28:Z2:873:LEU:H	1.31	1.43
3:A6:1316:VAL:CG1	28:Z4:871:HIS:N	1.79	1.43
9:G1:258:LYS:NZ	16:N2:408:MET:CB	1.79	1.43
28:Z1:551:THR:HG22	30:b1:233:TRP:CZ3	0.92	1.43
28:Z4:411:LEU:N	30:b4:251:ILE:HD13	1.11	1.43
28:Z4:528:ILE:CG1	30:b4:210:ARG:NH1	1.79	1.43
1:A1:870:HIS:HB2	6:D3:280:GLN:N	1.19	1.43
3:A5:1020:ILE:C	11:I5:95:LYS:NZ	1.73	1.43
3:A5:1101:GLN:NE2	11:I5:33:THR:HG23	1.11	1.43
11:I1:877:ILE:CG2	17:O1:253:LEU:H	1.25	1.43
1:A1:870:HIS:HB3	6:D3:279:HIS:ND1	1.18	1.43
2:A2:861:GLN:O	6:D1:607:PRO:CD	1.63	1.43
2:A2:970:PHE:CB	6:D1:192:TYR:OH	1.67	1.43
2:A4:872:ALA:CB	6:D3:565:MET:HE3	0.99	1.43
2:A4:909:LYS:HG2	6:D3:552:TYR:CZ	1.50	1.43
11:I3:1274:HIS:C	26:X1:508:LEU:HD23	1.41	1.43
17:O3:102:LYS:CB	18:P3:322:LYS:HZ1	1.29	1.43
2:A2:780:GLU:H	6:D1:678:GLY:N	1.11	1.43
2:A4:867:GLU:N	6:D3:605:THR:HG22	1.32	1.43
3:A5:188:ALA:CA	5:C2:746:PRO:HG2	1.27	1.43
3:A5:1029:ILE:HG22	11:I5:71:GLU:N	1.33	1.43
11:I1:1042:LEU:CA	15:M1:616:LEU:HD21	1.48	1.43
11:I1:1104:LEU:C	16:N1:436:ALA:HB1	1.43	1.43
11:I2:841:PHE:CD1	15:M3:588:MET:HG3	1.52	1.43
11:I2:935:GLY:C	17:O3:261:LYS:NZ	1.75	1.43
11:I2:981:VAL:CB	20:R3:147:LEU:HD21	1.45	1.43
11:I3:1276:GLN:NE2	26:X1:535:ALA:C	1.72	1.43
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:CE1	2.01	1.43
28:Z1:411:LEU:N	30:b1:251:ILE:HD13	1.11	1.43
1:A1:1332:ARG:HG3	6:D1:636:ASP:CB	0.97	1.43
2:A2:989:MSE:HG3	6:D1:500:LYS:CD	0.98	1.43
1:A3:1048:ARG:O	6:D3:816:VAL:CG2	1.64	1.43
5:C3:732:LYS:NZ	11:I2:1225:LYS:HD2	1.23	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1203:TRP:HZ2	17:O2:248:SER:CB	1.28	1.43
11:I2:1039:ALA:C	20:R3:170:LEU:HD21	1.40	1.43
1:A1:1224:PRO:HD3	2:A2:731:ILE:CG1	1.48	1.42
2:A2:979:GLY:CA	6:D1:472:PHE:C	1.83	1.42
2:A2:1143:LEU:HD12	3:A5:131:PRO:C	1.44	1.42
1:A3:1048:ARG:CZ	6:D3:819:ASN:HD21	1.29	1.42
1:A3:1052:THR:CB	6:D3:813:GLN:O	1.66	1.42
1:A3:1201:ARG:HB3	2:A4:735:ALA:N	1.23	1.42
1:A3:1204:TRP:CB	2:A4:731:ILE:CG2	1.96	1.42
3:A6:1366:LEU:C	28:Z4:868:GLN:CB	1.91	1.42
11:I2:884:LEU:CD1	16:N3:400:LEU:HD11	0.97	1.42
11:I4:1275:SER:HB2	26:X3:525:ILE:CG1	1.49	1.42
28:Z2:561:GLN:HB2	30:b2:236:THR:N	1.28	1.42
28:Z3:410:ASN:CB	30:b3:251:ILE:CD1	1.84	1.42
1:A3:1201:ARG:CA	2:A4:731:ILE:O	1.65	1.42
2:A4:868:GLN:CG	6:D3:608:ILE:CD1	1.95	1.42
3:A5:1374:ALA:HB2	28:Z2:823:ALA:C	1.43	1.42
11:I1:877:ILE:CG2	17:O1:253:LEU:N	1.77	1.42
11:I1:952:LEU:HD12	16:N1:400:LEU:CD2	0.95	1.42
11:I2:1024:PHE:CB	16:N3:406:HIS:ND1	1.80	1.42
2:A2:980:ARG:HG2	6:D1:473:GLU:CG	1.44	1.42
3:A5:177:ILE:O	5:C2:743:LEU:CD2	1.67	1.42
11:I1:978:LYS:CD	20:R1:152:LYS:C	1.93	1.42
11:I1:1049:LEU:HD12	15:M1:626:HIS:CD2	0.90	1.42
11:I2:874:LEU:HA	17:O3:255:GLY:CA	1.50	1.42
11:I2:1028:CYS:C	20:R3:173:LEU:H	1.19	1.42
11:I2:1039:ALA:CB	20:R3:170:LEU:CD1	1.88	1.42
11:I1:987:GLY:HA3	15:M1:611:LYS:CG	1.32	1.42
11:I1:1048:GLU:OE1	20:R1:143:PHE:CG	1.71	1.42
11:I4:1269:ARG:C	26:X3:528:GLU:CB	1.89	1.42
17:O3:155:VAL:CG2	18:P3:321:ILE:HD13	1.46	1.42
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:CE1	2.01	1.42
28:Z2:410:ASN:ND2	30:b2:252:ALA:HB2	1.33	1.42
2:A4:1141:GLU:HB3	3:A6:130:ILE:CD1	1.48	1.42
3:A5:153:ILE:CD1	5:C2:740:ARG:O	1.67	1.42
3:A6:165:PHE:CE2	5:C4:743:LEU:CD2	2.01	1.42
8:F2:1137:GLN:HB2	17:O4:251:ILE:CD1	1.50	1.42
11:I1:1109:LEU:HB2	16:N1:441:PHE:CB	0.96	1.42
11:I2:985:ARG:N	15:M3:613:ASP:CA	1.68	1.42
3:A6:165:PHE:CD2	5:C4:743:LEU:CD1	2.02	1.41
11:I2:966:TRP:CZ3	20:R3:167:GLN:CG	2.01	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD1	1.41	1.41
11:I3:1270:LYS:CE	26:X1:530:ARG:HG2	1.43	1.41
11:I3:1277:LEU:HG	26:X1:522:MET:CG	1.49	1.41
27:Y4:41:ASP:HB3	29:a4:231[B]:HIS:NE2	1.35	1.41
2:A2:979:GLY:HA3	6:D1:473:GLU:N	1.09	1.41
2:A2:979:GLY:HA3	6:D1:472:PHE:C	1.27	1.41
3:A5:1005:PHE:CE1	11:I5:67:LYS:HE3	1.56	1.41
3:A6:1387:ILE:HB	28:Z4:864:PHE:CA	1.33	1.41
8:F1:1205:TRP:NE1	17:O2:251:ILE:HG23	1.36	1.41
11:I1:841:PHE:CE1	17:O1:243:LEU:HD11	1.52	1.41
11:I2:898:VAL:CG2	17:O3:237:PRO:CD	1.97	1.41
11:I2:1039:ALA:HB1	20:R3:170:LEU:CB	1.39	1.41
17:O3:151:LEU:CD2	18:P3:325:ILE:CD1	1.98	1.41
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CG1	1.78	1.41
2:A2:982:THR:CG2	6:D1:497:PHE:H	1.09	1.41
3:A5:1094:ILE:HG23	11:I5:4:LEU:CB	1.49	1.41
3:A6:1401:VAL:HG23	28:Z4:912:ASP:CB	1.51	1.41
8:F1:1203:TRP:CZ2	17:O2:248:SER:CA	2.03	1.41
9:G1:258:LYS:NZ	16:N2:408:MET:HB2	1.10	1.41
11:I3:1273:GLU:N	26:X1:526:CYS:H	1.12	1.41
11:I1:833:PHE:HE2	17:O1:238:ALA:CA	1.25	1.41
11:I1:950:LEU:C	16:N1:403:VAL:CG1	1.82	1.41
11:I1:978:LYS:HD3	20:R1:152:LYS:C	1.01	1.41
11:I3:1275:SER:CA	26:X1:508:LEU:HD21	1.50	1.41
11:I3:1277:LEU:HD21	26:X1:513:PHE:CB	1.47	1.41
11:I4:1271:GLU:CA	26:X3:529:TRP:HD1	1.26	1.41
28:Z4:410:ASN:CB	30:b4:251:ILE:CD1	1.85	1.41
2:A2:1152:ASP:HB2	3:A5:173:ASN:N	1.31	1.41
2:A4:982:THR:HG23	6:D3:496:LEU:CA	1.26	1.41
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB3	1.49	1.41
8:F1:1261:TYR:CD2	17:O2:259:ASP:OD2	1.71	1.41
11:I1:947:LEU:HD11	16:N1:411:GLN:CG	1.51	1.41
11:I1:976:ARG:CZ	15:M1:622:VAL:HG13	1.48	1.41
11:I1:1114:VAL:CG2	16:N1:436:ALA:N	1.81	1.41
11:I2:980:ILE:CB	15:M3:618:GLN:HA	1.07	1.41
11:I2:1109:LEU:HD13	17:O3:290:TYR:CD2	1.53	1.41
28:Z4:410:ASN:ND2	30:b4:252:ALA:HB2	1.32	1.41
1:A3:1021:LEU:CB	6:D3:816:VAL:CG1	1.96	1.40
3:A5:1399:ARG:NH1	28:Z2:909:LEU:HA	1.35	1.40
9:G2:263:MET:SD	17:O4:263:GLN:HB2	1.58	1.40
11:I1:987:GLY:N	15:M1:613:ASP:H	0.97	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1277:LEU:CG	26:X1:522:MET:HG3	1.48	1.40
11:I4:1274:HIS:HA	26:X3:526:CYS:SG	1.58	1.40
28:Z2:410:ASN:CB	30:b2:251:ILE:CD1	1.85	1.40
28:Z2:411:LEU:N	30:b2:251:ILE:HD13	1.11	1.40
28:Z3:410:ASN:ND2	30:b3:252:ALA:HB2	1.32	1.40
2:A4:866:SER:C	6:D3:598:ILE:HG12	1.41	1.40
2:A4:868:GLN:HB3	6:D3:570:VAL:CG1	1.47	1.40
2:A4:986:THR:CG2	6:D3:504:LYS:HD3	1.39	1.40
11:I1:883:ALA:CB	17:O1:243:LEU:O	1.70	1.40
1:A3:1056:PHE:CZ	6:D3:810:ARG:N	1.83	1.40
5:C1:732:LYS:NZ	11:I1:1225:LYS:HD2	1.30	1.40
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:CE1	2.01	1.40
28:Z1:526:ARG:CB	30:b1:206:ASN:CG	1.95	1.40
2:A2:1121:LEU:CA	3:A5:133:LYS:HG3	1.50	1.40
3:A5:1031:TYR:CD1	11:I5:67:LYS:NZ	1.90	1.40
11:I1:1037:THR:HA	15:M1:624:ASN:ND2	1.35	1.40
11:I1:1611:PHE:C	11:I2:1673:VAL:N	1.80	1.40
11:I4:1271:GLU:HA	26:X3:529:TRP:CD1	1.54	1.40
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:CE1	2.01	1.40
28:Z2:526:ARG:CB	30:b2:206:ASN:CG	1.95	1.40
28:Z4:526:ARG:CB	30:b4:206:ASN:CG	1.95	1.40
2:A2:1054:SER:C	6:D2:762:ARG:CB	1.91	1.40
2:A2:1140:GLU:OE1	3:A5:135:PHE:CD1	1.72	1.40
1:A3:1048:ARG:NH1	6:D3:819:ASN:CG	1.77	1.40
2:A4:904:GLN:NE2	6:D3:603:SER:C	1.77	1.40
2:A4:975:GLU:C	6:D3:501:LEU:HB2	1.42	1.40
2:A4:1135:ARG:N	3:A6:145:THR:HB	1.33	1.40
11:I1:950:LEU:CB	16:N1:407:ALA:N	1.78	1.40
11:I2:846:ILE:HG22	17:O3:247:TRP:CZ2	1.55	1.40
27:Y2:41:ASP:HB3	29:a2:231[B]:HIS:NE2	1.35	1.40
2:A4:860:GLU:CG	6:D3:606:LYS:HB2	1.44	1.39
2:A4:974:PRO:HA	6:D3:499:LEU:CD1	1.52	1.39
2:A4:978:ASP:CB	6:D3:476:VAL:CG2	1.91	1.39
3:A6:1334:GLY:HA2	28:Z4:961:PHE:CB	0.92	1.39
11:I1:1037:THR:CG2	20:R1:173:LEU:HD22	1.39	1.39
11:I2:1039:ALA:CA	20:R3:170:LEU:CD1	1.99	1.39
18:P1:276:SER:CB	18:P4:322:LYS:CE	1.98	1.39
1:A3:1021:LEU:CB	6:D3:816:VAL:HG13	1.50	1.39
1:A3:1054:SER:O	6:D3:809:ALA:CB	1.68	1.39
1:A3:1224:PRO:CB	2:A4:727:ASN:O	1.70	1.39
2:A4:865:ALA:HB1	6:D3:567:LEU:CD2	1.51	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:978:ASP:HB3	6:D3:476:VAL:CG2	1.14	1.39
2:A4:1129:PRO:CB	3:A6:142:GLU:CG	2.01	1.39
11:I1:976:ARG:HH12	15:M1:622:VAL:CB	1.36	1.39
11:I1:1053:GLY:O	17:O1:283:ALA:CB	1.64	1.39
11:I2:953:LEU:HA	15:M3:603:SER:CB	1.39	1.39
11:I2:977:ASN:CB	20:R3:150:ASN:HB3	0.98	1.39
11:I2:1109:LEU:CD1	17:O3:286:ILE:HG22	1.52	1.39
28:Z3:526:ARG:CB	30:b3:206:ASN:CG	1.95	1.39
2:A2:874:VAL:CB	6:D1:571:SER:OG	1.68	1.39
2:A2:989:MSE:HG3	6:D1:500:LYS:CE	1.53	1.39
2:A2:1121:LEU:O	3:A5:133:LYS:CG	1.67	1.39
2:A4:975:GLU:C	6:D3:496:LEU:HA	1.44	1.39
2:A4:983:LEU:CG	6:D3:528:PHE:CE1	2.06	1.39
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CA	1.51	1.39
11:I1:945:LEU:CD2	17:O1:259:ASP:H	1.33	1.39
11:I2:1039:ALA:CB	20:R3:170:LEU:CD2	1.96	1.39
2:A2:1143:LEU:CD1	3:A5:131:PRO:CA	1.99	1.39
3:A5:222:ALA:HA	5:C2:738:ASP:C	1.19	1.39
3:A5:233:THR:CG2	5:C2:737:LYS:HD2	1.52	1.39
11:I2:1054:ILE:N	17:O3:282:LYS:H	1.16	1.39
11:I4:1271:GLU:CA	26:X3:529:TRP:CD1	2.04	1.39
28:Z1:411:LEU:N	30:b1:251:ILE:CD1	1.84	1.39
28:Z2:528:ILE:CG1	30:b2:210:ARG:NH1	1.79	1.39
28:Z4:524:VAL:CG1	30:b4:236:THR:CG2	1.76	1.39
2:A2:1143:LEU:CG	3:A5:131:PRO:HA	0.91	1.39
2:A4:823:VAL:CA	2:A4:856:PHE:HE1	1.20	1.39
2:A4:1129:PRO:CB	3:A6:142:GLU:OE2	1.71	1.39
3:A5:1029:ILE:H	11:I5:68:ILE:N	1.19	1.39
11:I1:987:GLY:N	15:M1:613:ASP:N	1.70	1.39
11:I1:1017:VAL:N	16:N1:411:GLN:HG3	1.36	1.39
11:I1:1058:GLY:O	17:O1:277:GLU:CD	1.66	1.39
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HD3	1.33	1.39
11:I2:1031:ALA:N	20:R3:173:LEU:CA	1.86	1.39
28:Z3:528:ILE:CG1	30:b3:210:ARG:NH1	1.79	1.39
2:A4:982:THR:HG21	6:D3:496:LEU:N	1.23	1.38
4:B6:345:LYS:HB3	5:C4:737:LYS:CE	1.50	1.38
11:I1:880:MET:CG	17:O1:247:TRP:HA	1.52	1.38
11:I1:1037:THR:CA	20:R1:173:LEU:HD22	1.54	1.38
11:I1:1070:LEU:N	16:N1:429:GLU:HG2	1.37	1.38
11:I1:1109:LEU:CB	16:N1:441:PHE:HB2	0.91	1.38
27:Y3:41:ASP:HB3	29:a3:231[B]:HIS:NE2	1.35	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:523:ASP:HB2	30:b1:238:ASN:CA	1.13	1.38
28:Z3:411:LEU:N	30:b3:251:ILE:CD1	1.84	1.38
2:A2:1142:PHE:CZ	3:A5:567:VAL:HB	1.57	1.38
1:A3:1224:PRO:CB	2:A4:731:ILE:HD13	1.28	1.38
2:A4:967:GLU:O	6:D3:202:GLN:CB	1.69	1.38
11:I1:976:ARG:CZ	15:M1:622:VAL:CG1	1.99	1.38
11:I1:1114:VAL:CG2	16:N1:436:ALA:H	1.32	1.38
2:A2:989:MSE:CE	6:D1:240:ASP:HA	0.92	1.38
1:A3:1220:PRO:CA	2:A4:646:ILE:HD13	1.31	1.38
2:A4:982:THR:CG2	6:D3:493:ALA:O	1.68	1.38
2:A4:982:THR:CB	6:D3:493:ALA:O	1.71	1.38
3:A5:1094:ILE:CG2	11:I5:4:LEU:CB	2.01	1.38
3:A6:165:PHE:HD2	5:C4:743:LEU:CD1	1.34	1.38
3:A6:220:VAL:HG13	5:C4:738:ASP:C	1.47	1.38
11:I1:884:LEU:HD22	16:N1:396:ILE:CB	1.53	1.38
11:I1:967:SER:HB2	15:M1:625:GLY:CA	1.51	1.38
11:I2:898:VAL:HG23	17:O3:237:PRO:CD	1.53	1.38
11:I2:1053:GLY:C	17:O3:279:ILE:O	1.64	1.38
28:Z4:411:LEU:N	30:b4:251:ILE:CD1	1.84	1.38
2:A2:980:ARG:CZ	6:D1:525:ARG:CG	2.01	1.38
3:A5:1406:GLY:HA3	28:Z2:921:THR:CB	1.51	1.38
3:A6:1316:VAL:HG11	28:Z4:871:HIS:N	1.33	1.38
3:A6:1337:ALA:C	28:Z4:960:CYS:CB	1.96	1.38
11:I1:846:ILE:CG2	17:O1:247:TRP:CZ2	2.05	1.38
11:I1:880:MET:HE2	17:O1:247:TRP:CZ3	1.59	1.38
11:I1:1021:ILE:HD11	16:N1:410:MET:CB	1.53	1.38
11:I2:1021:ILE:HA	16:N3:406:HIS:CE1	1.57	1.38
11:I2:1029:LEU:CD1	16:N3:433:GLU:CD	1.97	1.38
28:Z2:411:LEU:N	30:b2:251:ILE:CD1	1.84	1.38
2:A2:1135:ARG:CA	3:A5:147:LEU:HD23	1.24	1.38
2:A4:864:ARG:CZ	6:D3:610:ASN:OD1	1.70	1.38
11:I1:874:LEU:O	17:O1:252:VAL:CA	1.70	1.38
11:I2:1013:GLU:C	16:N3:411:GLN:O	1.65	1.38
2:A4:986:THR:HG21	6:D3:504:LYS:CD	1.43	1.37
2:A4:1055:ARG:CD	6:D4:762:ARG:HB3	1.53	1.37
3:A5:1363:ASP:CB	28:Z2:875:LEU:CB	2.02	1.37
11:I2:900:ARG:CA	17:O3:232:LYS:HG2	1.54	1.37
11:I3:1277:LEU:CD1	26:X1:522:MET:HG3	1.51	1.38
17:O3:148:ARG:CZ	18:P3:325:ILE:CG2	2.01	1.37
2:A2:970:PHE:CA	6:D1:192:TYR:CZ	2.06	1.37
3:A6:1312:ARG:NH2	28:Z4:829:SER:CB	1.81	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1387:ILE:CB	28:Z4:864:PHE:HA	1.32	1.37
11:I1:1667:GLN:CG	11:I2:1661:GLY:O	1.70	1.37
8:F1:1261:TYR:CZ	17:O2:260:LEU:CA	2.02	1.37
11:I1:1021:ILE:CD1	16:N1:410:MET:CB	2.02	1.37
11:I1:1108:PRO:CB	16:N1:443:GLU:H	1.36	1.37
11:I2:931:VAL:CA	15:M3:601:ASP:O	1.68	1.37
11:I2:1031:ALA:CB	20:R3:168:LEU:HD22	1.52	1.37
11:I4:1278:ALA:CB	26:X3:520:GLU:OE2	1.64	1.37
28:Z3:534:ASP:OD2	30:b3:183:LEU:CB	1.72	1.37
2:A4:868:GLN:CB	6:D3:570:VAL:CG1	2.02	1.37
2:A4:1134:GLU:N	3:A6:145:THR:CB	1.87	1.37
3:A5:155:TYR:CE2	5:C2:740:ARG:CB	1.98	1.37
3:A5:1411:ARG:O	28:Z2:961:PHE:CB	1.72	1.37
9:G1:270:ARG:HB2	16:N2:413:VAL:O	1.24	1.37
11:I1:981:VAL:CG1	20:R1:151:LYS:CB	2.02	1.37
11:I2:958:THR:H	16:N3:399:HIS:CD2	1.43	1.37
11:I2:1013:GLU:O	16:N3:411:GLN:C	1.66	1.37
28:Z1:534:ASP:OD2	30:b1:183:LEU:CB	1.72	1.37
2:A2:870:HIS:CD2	6:D1:551:PHE:CB	2.07	1.37
1:A3:1048:ARG:NH1	6:D3:819:ASN:OD1	1.57	1.37
11:I1:882:LYS:H	17:O1:249:ARG:CB	1.30	1.37
11:I1:1040:HIS:NE2	16:N1:437:VAL:CG2	1.72	1.37
11:I2:850:ILE:CG2	15:M3:598:GLU:OE2	1.70	1.37
11:I2:955:LYS:N	16:N3:403:VAL:CG2	1.75	1.37
11:I2:1030:ARG:C	20:R3:173:LEU:C	1.91	1.37
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH2	1.82	1.37
1:A1:1197:ALA:HB3	2:A2:728:LYS:NZ	1.34	1.36
2:A2:980:ARG:NH2	6:D1:503:LEU:HB2	1.29	1.36
2:A2:1094:ILE:HD13	6:D2:759:GLN:NE2	1.37	1.36
8:F1:1261:TYR:CE2	17:O2:260:LEU:N	1.88	1.36
8:F1:1262:HIS:CE1	17:O2:259:ASP:CB	2.07	1.36
11:I1:983:LEU:C	15:M1:617:THR:HG21	1.00	1.36
11:I2:884:LEU:CB	16:N3:400:LEU:HD12	1.54	1.36
11:I3:1267:LEU:HB2	26:X1:497:ARG:NH1	1.06	1.36
2:A2:823:VAL:CA	2:A2:856:PHE:HE1	1.20	1.36
2:A2:989:MSE:N	6:D1:500:LYS:HE3	1.39	1.36
2:A4:909:LYS:CG	6:D3:552:TYR:CE2	1.89	1.36
11:I1:947:LEU:HA	16:N1:407:ALA:CB	1.56	1.36
2:A4:909:LYS:HD2	6:D3:555:ARG:CZ	1.37	1.36
3:A5:1312:ARG:HH21	28:Z2:832:PHE:CB	1.39	1.36
3:A6:155:TYR:CE1	5:C4:739:MET:HE3	1.60	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:919:ALA:CB	16:N1:389:PHE:O	1.70	1.36
11:I1:1665:LEU:HG	11:I2:1667:GLN:CG	1.53	1.36
11:I2:939:ASN:CB	17:O3:265:ASN:CG	1.79	1.36
11:I2:1031:ALA:N	20:R3:172:ASP:O	1.56	1.36
27:Y1:41:ASP:HB3	29:a1:231[B]:HIS:NE2	1.35	1.36
28:Z2:524:VAL:CG1	30:b2:236:THR:CG2	1.76	1.36
1:A1:1091:VAL:CG1	6:D1:804:SER:CB	2.02	1.36
11:I1:880:MET:HG3	17:O1:247:TRP:O	1.26	1.36
11:I1:1058:GLY:C	17:O1:277:GLU:OE2	1.64	1.36
11:I4:1274:HIS:ND1	26:X3:529:TRP:HB2	1.40	1.36
1:A1:1204:TRP:CH2	2:A2:757:LEU:HD22	1.60	1.36
2:A2:1156:ASP:OD1	3:A5:168:ASP:CB	1.74	1.36
3:A5:1363:ASP:HB3	28:Z2:875:LEU:CB	1.52	1.36
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CA	1.55	1.36
11:I1:922:ASP:N	15:M1:592:LEU:CG	1.75	1.36
11:I2:1051:LYS:CB	17:O3:288:GLU:N	1.72	1.36
11:I2:1059:PRO:CB	17:O3:273:ASP:O	1.72	1.36
28:Z2:526:ARG:CB	30:b2:206:ASN:OD1	1.74	1.36
1:A1:1221:ILE:HG23	2:A2:642:ARG:C	1.10	1.35
11:I1:843:GLU:CG	15:M1:587:GLU:OE2	1.72	1.35
11:I1:952:LEU:C	16:N1:403:VAL:HG21	0.95	1.35
11:I1:976:ARG:NH2	15:M1:622:VAL:HG11	1.41	1.35
11:I2:797:LEU:HD22	17:O3:245:GLU:CG	1.55	1.35
11:I2:983:LEU:HD22	15:M3:617:THR:CB	1.32	1.35
18:P2:320:GLN:HG3	18:P3:278:ASN:CB	1.56	1.35
28:Z1:526:ARG:O	30:b1:206:ASN:ND2	1.58	1.35
28:Z4:410:ASN:HB2	30:b4:251:ILE:CG1	1.56	1.35
28:Z4:534:ASP:OD2	30:b4:183:LEU:CB	1.72	1.35
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ2	1.38	1.35
2:A2:1054:SER:O	6:D2:762:ARG:HB3	1.20	1.35
2:A4:1138:GLU:O	3:A6:130:ILE:CD1	1.71	1.35
11:I1:981:VAL:HG23	20:R1:147:LEU:CD2	1.54	1.35
11:I2:966:TRP:HZ3	20:R3:167:GLN:CD	1.31	1.35
11:I2:1029:LEU:HD11	16:N3:433:GLU:CG	1.53	1.35
28:Z3:526:ARG:CB	30:b3:206:ASN:OD1	1.74	1.35
1:A1:832:ASN:OD1	6:D3:298:ASN:CA	1.72	1.35
2:A2:875:LEU:H	6:D1:567:LEU:C	1.29	1.35
2:A4:1129:PRO:CA	3:A6:142:GLU:CG	2.05	1.35
3:A5:1020:ILE:C	11:I5:95:LYS:HZ2	1.31	1.35
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB3	1.54	1.35
6:D7:529:VAL:N	11:I3:181:GLN:NE2	1.72	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:883:ALA:CB	17:O1:246:LEU:HB2	1.51	1.35
11:I1:950:LEU:C	16:N1:403:VAL:HG12	1.45	1.35
11:I1:952:LEU:HA	16:N1:400:LEU:CD2	1.54	1.35
28:Z4:526:ARG:CB	30:b4:206:ASN:OD1	1.74	1.35
2:A2:1121:LEU:C	3:A5:133:LYS:HG3	0.94	1.35
2:A2:1136:LYS:CA	3:A5:134:VAL:HG12	1.57	1.35
2:A4:876:ARG:CG	6:D3:558:LYS:HA	1.57	1.35
2:A4:1135:ARG:H	3:A6:145:THR:CB	1.39	1.35
3:A6:1402:ASP:CA	28:Z4:922:LEU:CB	2.01	1.35
11:I1:1027:ALA:N	20:R1:172:ASP:OD1	1.58	1.35
11:I1:1035:GLN:C	16:N1:441:PHE:HZ	1.28	1.35
11:I1:1037:THR:HG23	20:R1:169:GLY:CA	1.55	1.35
11:I2:953:LEU:CA	15:M3:603:SER:HB3	1.09	1.35
28:Z2:534:ASP:OD2	30:b2:183:LEU:CB	1.72	1.35
2:A2:1151:THR:HA	5:C2:733:LEU:CD1	1.57	1.35
2:A4:867:GLU:HG3	6:D3:605:THR:CG2	1.56	1.35
2:A4:875:LEU:HD12	6:D3:567:LEU:CG	1.54	1.35
2:A4:876:ARG:HD2	6:D3:558:LYS:CA	0.87	1.35
6:D7:531:LEU:N	11:I3:181:GLN:CG	1.68	1.35
11:I2:990:GLU:O	17:O3:271:GLU:C	1.69	1.35
11:I2:993:SER:HB3	16:N3:430:ARG:NH1	1.05	1.35
2:A2:980:ARG:CZ	6:D1:525:ARG:HA	1.56	1.34
1:A3:1054:SER:HA	6:D3:809:ALA:C	1.48	1.34
1:A3:1204:TRP:CG	2:A4:731:ILE:HG23	1.62	1.34
6:D7:530:ARG:C	11:I3:181:GLN:CB	1.84	1.34
11:I3:1276:GLN:NE2	26:X1:535:ALA:HA	1.28	1.34
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HG13	1.02	1.34
2:A2:989:MSE:N	6:D1:500:LYS:CE	1.89	1.34
2:A2:1164:TYR:CD1	4:B5:342:ARG:HD3	1.62	1.34
1:A3:1223:GLU:HB2	2:A4:676:LEU:CD1	1.57	1.34
2:A4:872:ALA:CB	6:D3:565:MET:CE	1.87	1.34
3:A6:1414:PHE:H	28:Z4:964:LEU:N	1.25	1.34
11:I2:980:ILE:HD13	15:M3:622:VAL:CG2	1.54	1.34
11:I2:986:ASN:N	15:M3:613:ASP:HB2	1.04	1.34
11:I3:1273:GLU:N	26:X1:526:CYS:N	1.73	1.34
11:I4:1277:LEU:HD12	26:X3:521:TRP:CG	1.44	1.34
17:O3:151:LEU:HD22	18:P3:325:ILE:CB	1.48	1.34
1:A1:1091:VAL:CG1	6:D1:804:SER:OG	1.72	1.34
1:A3:1083:SER:C	6:D3:798:MET:CG	1.95	1.34
2:A4:864:ARG:CZ	6:D3:610:ASN:CG	2.00	1.34
2:A4:983:LEU:CB	6:D3:528:PHE:CZ	2.10	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1367:THR:N	28:Z4:868:GLN:CB	1.91	1.34
11:I1:1108:PRO:HG3	16:N1:443:GLU:CA	1.55	1.34
11:I2:939:ASN:HB3	17:O3:265:ASN:CG	0.98	1.34
11:I3:1271:GLU:CB	26:X1:525:ILE:HG23	1.55	1.34
11:I2:948:ALA:N	17:O3:256:TYR:CD2	1.95	1.34
11:I2:1049:LEU:O	17:O3:288:GLU:HA	1.25	1.34
11:I4:1275:SER:N	26:X3:525:ILE:CB	1.75	1.34
17:O3:151:LEU:CG	18:P3:325:ILE:HG13	1.49	1.34
28:Z3:526:ARG:O	30:b3:206:ASN:ND2	1.58	1.34
1:A1:1331:GLU:OE1	2:A2:857:LYS:HE2	1.18	1.34
2:A2:869:ALA:HB2	6:D1:574:VAL:CG2	1.55	1.34
2:A2:1143:LEU:CD1	3:A5:131:PRO:CB	2.05	1.34
2:A2:1149:THR:CA	5:C2:730:HIS:O	1.75	1.34
1:A3:1021:LEU:HD13	6:D3:816:VAL:CA	1.54	1.34
2:A4:1129:PRO:C	3:A6:142:GLU:HG3	1.49	1.34
3:A5:1029:ILE:H	11:I5:67:LYS:C	1.32	1.34
3:A5:1091:VAL:CG1	11:I5:36:GLU:OE1	1.73	1.34
3:A6:220:VAL:CG1	5:C4:738:ASP:O	1.74	1.34
3:A6:1414:PHE:N	28:Z4:964:LEU:N	1.75	1.34
5:C1:732:LYS:HE2	11:I1:1228:GLU:CG	1.58	1.34
8:F1:1205:TRP:CG	17:O2:254:ARG:HD2	1.62	1.34
8:F1:1261:TYR:CE2	17:O2:259:ASP:C	2.05	1.34
9:G1:263:MET:N	17:O2:256:TYR:OH	1.57	1.34
11:I1:976:ARG:NH1	15:M1:622:VAL:HG13	1.04	1.34
11:I1:1037:THR:CB	20:R1:173:LEU:HD22	0.87	1.34
11:I2:1029:LEU:CD1	16:N3:433:GLU:OE1	1.75	1.34
17:O3:151:LEU:HD21	18:P3:325:ILE:CD1	1.54	1.34
28:Z3:410:ASN:HB2	30:b3:251:ILE:CG1	1.56	1.34
2:A2:976:LEU:HB2	6:D1:496:LEU:CD2	1.11	1.33
2:A2:1133:GLU:HA	3:A5:138:LEU:CD2	1.56	1.33
2:A4:869:ALA:N	6:D3:570:VAL:HG13	1.01	1.33
2:A4:908:LEU:HA	6:D3:552:TYR:CE1	1.61	1.33
8:F1:1137:GLN:NE2	17:O2:249:ARG:HB2	1.03	1.33
8:F1:1137:GLN:CG	17:O2:249:ARG:N	1.88	1.33
11:I2:950:LEU:CD2	16:N3:410:MET:CE	2.06	1.33
17:O4:110:LEU:CB	18:P4:321:ILE:HB	1.57	1.33
28:Z2:410:ASN:HB2	30:b2:251:ILE:CG1	1.56	1.33
28:Z4:526:ARG:O	30:b4:206:ASN:ND2	1.58	1.33
2:A2:988:ARG:HB3	6:D1:500:LYS:NZ	1.04	1.33
1:A3:1084:ARG:HG2	6:D3:794:THR:CA	1.56	1.33
1:A3:1224:PRO:HB3	2:A4:731:ILE:CD1	1.18	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1151:THR:HA	5:C4:733:LEU:CD1	1.57	1.33
3:A5:999:SER:OG	11:I5:63:PRO:HD2	1.16	1.33
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CA	1.89	1.33
3:A6:1402:ASP:HA	28:Z4:922:LEU:CB	1.09	1.33
11:I1:919:ALA:HB2	16:N1:389:PHE:O	1.23	1.33
11:I1:950:LEU:HB2	16:N1:407:ALA:CB	1.43	1.33
11:I2:986:ASN:N	15:M3:613:ASP:CB	1.88	1.33
11:I2:1037:THR:CA	15:M3:620:VAL:O	1.73	1.33
28:Z1:555:LYS:CE	30:b1:216:LEU:HD22	1.59	1.33
28:Z2:522:ASN:H	30:b2:241:PRO:CG	1.29	1.33
28:Z3:555:LYS:CE	30:b3:216:LEU:HD22	1.59	1.33
1:A1:870:HIS:ND1	6:D3:279:HIS:CE1	1.94	1.33
2:A2:988:ARG:CB	6:D1:500:LYS:NZ	1.91	1.33
3:A5:1024:ASP:HB3	11:I5:98:ALA:CB	1.56	1.33
11:I1:924:ILE:CD1	15:M1:595:MET:HG2	1.58	1.33
11:I1:945:LEU:HD21	17:O1:258:GLU:CB	1.56	1.33
11:I1:1051:LYS:HE3	17:O1:289:ASP:N	1.41	1.33
11:I1:1066:LEU:N	16:N1:430:ARG:HG2	1.38	1.33
11:I2:920:PHE:C	15:M3:592:LEU:HA	1.53	1.33
11:I2:977:ASN:CA	20:R3:150:ASN:HB3	1.51	1.33
17:O3:158:GLU:HG3	18:P3:316:LEU:N	1.41	1.33
28:Z3:531:LYS:HD2	30:b3:182:PRO:O	1.27	1.33
2:A4:872:ALA:O	6:D3:565:MET:CA	1.77	1.33
2:A4:1138:GLU:C	3:A6:130:ILE:HD13	1.53	1.33
3:A5:1355:VAL:O	28:Z2:878:HIS:HA	1.22	1.33
3:A5:1414:PHE:CA	28:Z2:960:CYS:CB	1.94	1.33
3:A6:1351:MSE:SE	28:Z4:919:PHE:N	2.10	1.33
9:G1:250:THR:O	15:M2:605:THR:CG2	1.77	1.33
11:I1:843:GLU:HG2	15:M1:587:GLU:OE2	1.23	1.33
11:I3:1271:GLU:OE1	26:X1:504:ILE:CG2	1.74	1.33
28:Z2:526:ARG:O	30:b2:206:ASN:ND2	1.58	1.33
2:A2:1150:LEU:N	5:C2:730:HIS:O	1.61	1.33
2:A4:867:GLU:CD	6:D3:605:THR:OG1	1.71	1.33
2:A4:1141:GLU:CB	3:A6:130:ILE:HD12	1.57	1.33
3:A6:1365:VAL:HA	28:Z4:845:ILE:CB	1.58	1.33
3:A6:1412:MSE:CE	28:Z4:965:TYR:CB	2.05	1.33
11:I1:878:GLN:N	17:O1:252:VAL:H	1.23	1.33
11:I1:931:VAL:HG22	15:M1:604:ASN:N	1.44	1.33
11:I1:959:SER:CA	16:N1:395:GLU:HB3	1.56	1.33
11:I1:1108:PRO:CG	16:N1:443:GLU:CB	2.02	1.33
11:I3:1267:LEU:CB	26:X1:497:ARG:NH2	1.91	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:531:LYS:HD2	30:b2:182:PRO:O	1.27	1.33
28:Z3:402:GLY:HA3	30:b3:254:SER:OG	1.18	1.33
1:A1:1197:ALA:CB	2:A2:728:LYS:NZ	1.91	1.32
1:A1:1204:TRP:CZ2	2:A2:676:LEU:HD12	1.64	1.32
2:A4:975:GLU:N	6:D3:499:LEU:HB2	1.42	1.32
3:A6:1316:VAL:CG2	28:Z4:871:HIS:HA	1.59	1.32
3:A6:1324:ASP:OD2	28:Z4:907:LEU:HA	1.29	1.32
3:A6:1351:MSE:CA	28:Z4:918:PHE:N	1.90	1.32
11:I1:843:GLU:CB	15:M1:587:GLU:OE2	1.77	1.32
11:I1:846:ILE:CD1	15:M1:594:LYS:CD	2.05	1.32
11:I1:922:ASP:N	15:M1:592:LEU:CD2	1.79	1.32
11:I1:980:ILE:HA	15:M1:617:THR:O	1.25	1.32
11:I3:1267:LEU:HD21	26:X1:529:TRP:CH2	1.64	1.32
17:O3:158:GLU:CG	18:P3:316:LEU:N	1.91	1.32
2:A4:823:VAL:HA	2:A4:856:PHE:CE1	1.42	1.32
3:A5:155:TYR:CE2	5:C2:740:ARG:HB3	1.21	1.32
3:A5:1026:PRO:HD3	11:I5:102:ILE:CD1	1.57	1.32
3:A6:1316:VAL:HG13	28:Z4:870:ILE:C	1.52	1.32
3:A6:1369:ILE:HG12	28:Z4:826:TYR:CA	1.59	1.32
8:F1:1202:TYR:O	17:O2:252:VAL:HA	1.21	1.32
11:I1:874:LEU:O	17:O1:252:VAL:HA	1.22	1.32
11:I1:934:LEU:CA	15:M1:602:MET:HE3	1.58	1.32
11:I2:894:VAL:HG12	17:O3:236:ASP:C	0.98	1.32
11:I2:978:LYS:NZ	20:R3:155:GLU:N	1.73	1.32
11:I2:1045:PHE:CE2	16:N3:434:LEU:CB	2.10	1.32
2:A2:866:SER:CB	6:D1:602:THR:O	1.77	1.32
2:A2:1164:TYR:HA	4:B5:342:ARG:NE	1.00	1.32
3:A6:1368:GLN:HE22	28:Z4:844:CYS:CB	1.40	1.32
11:I1:841:PHE:CE2	17:O1:243:LEU:HD11	1.64	1.32
11:I1:841:PHE:CE2	17:O1:243:LEU:CD1	2.13	1.32
11:I1:843:GLU:N	15:M1:587:GLU:OE2	1.58	1.32
11:I1:1114:VAL:CG2	16:N1:432:TYR:O	1.77	1.32
11:I3:1267:LEU:CB	26:X1:497:ARG:HH22	1.41	1.32
17:O3:101:ASN:CB	18:P3:326:GLN:HE21	1.34	1.32
28:Z2:555:LYS:CE	30:b2:216:LEU:HD22	1.59	1.32
1:A1:831:ALA:O	6:D3:298:ASN:HB2	1.28	1.32
2:A2:1094:ILE:CD1	6:D2:759:GLN:NE2	1.92	1.32
3:A5:1026:PRO:C	11:I5:68:ILE:N	1.87	1.32
4:B6:345:LYS:H	5:C4:737:LYS:NZ	1.23	1.32
8:F1:1203:TRP:CH2	17:O2:248:SER:CA	2.08	1.32
8:F1:1266:MET:HG3	17:O2:262:ASP:OD2	1.20	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1267:ARG:HG3	17:O2:265:ASN:CG	1.52	1.32
11:I1:882:LYS:N	17:O1:249:ARG:CB	1.84	1.32
11:I2:945:LEU:CD1	17:O3:258:GLU:HB2	1.52	1.32
11:I2:956:ILE:CG2	15:M3:600:ASN:OD1	1.76	1.32
11:I2:981:VAL:N	20:R3:147:LEU:CD1	1.93	1.32
11:I2:1040:HIS:CE1	16:N3:437:VAL:HG11	1.64	1.32
11:I2:1106:LYS:HB2	16:N3:440:GLU:OE2	1.14	1.32
11:I4:1275:SER:HB2	26:X3:525:ILE:CD1	1.59	1.32
17:O3:102:LYS:HB3	18:P3:322:LYS:NZ	1.03	1.32
28:Z1:410:ASN:HB2	30:b1:251:ILE:CG1	1.56	1.32
28:Z1:526:ARG:CB	30:b1:206:ASN:OD1	1.74	1.32
2:A2:780:GLU:CB	6:D1:677:GLN:C	2.02	1.32
2:A2:868:GLN:NE2	6:D1:608:ILE:C	1.73	1.32
2:A4:864:ARG:NH2	6:D3:610:ASN:OD1	1.57	1.32
11:I1:846:ILE:CD1	15:M1:594:LYS:CB	2.05	1.32
11:I1:916:ALA:O	16:N1:389:PHE:CZ	1.80	1.32
11:I1:996:LEU:HD21	16:N1:410:MET:CE	1.45	1.32
11:I2:983:LEU:CD2	15:M3:617:THR:CB	2.00	1.32
11:I3:1276:GLN:N	26:X1:522:MET:HB3	1.44	1.32
28:Z3:402:GLY:CA	30:b3:254:SER:OG	1.78	1.32
17:O3:155:VAL:CG2	18:P3:321:ILE:HG21	1.59	1.31
28:Z4:402:GLY:HA3	30:b4:254:SER:OG	1.18	1.31
2:A2:976:LEU:CB	6:D1:496:LEU:HD22	1.47	1.31
2:A4:868:GLN:O	6:D3:598:ILE:HB	1.20	1.31
2:A4:879:LEU:CD1	6:D3:564:ASN:CG	2.03	1.31
2:A4:971:ALA:N	6:D3:202:GLN:HG2	1.00	1.31
2:A4:1129:PRO:CB	3:A6:142:GLU:CD	2.03	1.31
3:A5:996:ASN:HD22	11:I5:58:ALA:CB	1.15	1.31
3:A5:1312:ARG:CD	28:Z2:832:PHE:HA	1.49	1.31
3:A6:1312:ARG:HG3	28:Z4:830:LEU:CA	1.47	1.31
11:I1:966:TRP:CD2	20:R1:165:SER:O	1.82	1.31
11:I1:1049:LEU:HD22	20:R1:146:LEU:CD2	1.60	1.31
11:I1:1108:PRO:CG	16:N1:443:GLU:H	1.43	1.31
11:I3:1275:SER:C	26:X1:522:MET:CB	1.91	1.31
11:I3:1277:LEU:CD1	26:X1:511:TYR:CE2	2.12	1.31
11:I4:1276:GLN:C	26:X3:519:ILE:O	1.73	1.31
28:Z3:522:ASN:H	30:b3:241:PRO:CG	1.29	1.31
28:Z4:528:ILE:HG13	30:b4:210:ARG:NH1	1.37	1.31
1:A1:1221:ILE:CG2	2:A2:642:ARG:C	1.89	1.31
2:A2:1121:LEU:O	3:A5:133:LYS:HG3	1.17	1.31
2:A2:1143:LEU:HD12	3:A5:132:ASP:N	1.42	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1149:THR:HA	5:C2:730:HIS:C	1.21	1.31
2:A4:827:ILE:C	2:A4:863:GLN:CB	1.88	1.31
11:I1:880:MET:O	17:O1:246:LEU:CD2	1.76	1.31
11:I1:1045:PHE:CZ	16:N1:431:VAL:O	1.81	1.31
11:I3:1275:SER:CA	26:X1:508:LEU:CD2	2.04	1.31
28:Z1:402:GLY:CA	30:b1:254:SER:OG	1.78	1.31
1:A1:1221:ILE:HG22	2:A2:645:PHE:N	1.46	1.31
2:A2:970:PHE:HB3	6:D1:192:TYR:OH	1.19	1.31
11:I1:1036:PRO:C	20:R1:173:LEU:HD21	1.55	1.31
11:I1:1042:LEU:HA	15:M1:616:LEU:CD2	1.61	1.31
11:I2:1021:ILE:CG1	16:N3:410:MET:HE2	1.61	1.31
11:I2:1104:LEU:CD2	16:N3:433:GLU:HG3	1.31	1.31
11:I4:1274:HIS:CG	26:X3:531:LEU:HD12	1.64	1.31
2:A2:1152:ASP:CB	3:A5:173:ASN:H	1.44	1.31
2:A4:870:HIS:CG	6:D3:566:PHE:CD1	2.17	1.31
2:A4:976:LEU:CG	6:D3:501:LEU:HB3	1.58	1.31
2:A4:1161:ALA:CB	3:A6:137:HIS:CE1	2.13	1.31
3:A6:1391:ARG:CD	28:Z4:869:HIS:H	1.44	1.31
11:I1:884:LEU:HD13	16:N1:396:ILE:CG2	1.43	1.31
11:I2:880:MET:C	17:O3:246:LEU:O	1.72	1.31
11:I2:887:GLN:C	16:N3:393:ILE:HG21	1.34	1.31
11:I2:983:LEU:CD2	15:M3:617:THR:HB	1.55	1.31
11:I2:1109:LEU:HD12	17:O3:286:ILE:CG2	1.59	1.31
28:Z2:402:GLY:CA	30:b2:254:SER:OG	1.78	1.31
2:A2:874:VAL:HG21	6:D1:571:SER:CB	1.61	1.30
2:A2:1127:ALA:O	3:A5:140:ALA:CB	1.79	1.30
2:A4:780:GLU:OE1	6:D3:679:ILE:HG23	1.28	1.30
2:A4:877:ALA:HA	6:D3:563:GLU:CA	1.04	1.30
2:A4:1138:GLU:O	3:A6:130:ILE:HG21	1.20	1.30
2:A4:1148:ARG:HH11	3:A6:131:PRO:CG	1.43	1.30
3:A5:166:LEU:CB	5:C2:741:THR:O	1.78	1.30
11:I2:895:ARG:HH22	16:N3:386:MET:CG	1.35	1.30
11:I2:1045:PHE:CZ	16:N3:434:LEU:HB3	1.65	1.30
11:I2:1048:GLU:O	17:O3:287:LEU:HB3	1.29	1.30
17:O4:110:LEU:HD23	18:P4:321:ILE:N	1.00	1.30
28:Z1:524:VAL:H	30:b1:238:ASN:CB	1.44	1.30
2:A2:865:ALA:CB	6:D1:604:ASP:O	1.79	1.30
2:A2:970:PHE:HD1	6:D1:192:TYR:CE1	1.47	1.30
1:A3:1052:THR:OG1	6:D3:816:VAL:HB	1.13	1.30
1:A3:1083:SER:C	6:D3:798:MET:HG3	1.45	1.30
2:A4:1142:PHE:CZ	3:A6:567:VAL:HG23	1.65	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1405:LEU:CD1	28:Z4:921:THR:CB	2.09	1.30
11:I1:931:VAL:CG2	15:M1:604:ASN:H	1.43	1.30
11:I2:945:LEU:HD11	17:O3:258:GLU:CB	1.50	1.30
11:I2:953:LEU:CA	15:M3:603:SER:CB	1.83	1.30
11:I3:1267:LEU:CB	26:X1:497:ARG:CZ	2.07	1.30
11:I3:1275:SER:HB3	26:X1:522:MET:C	1.56	1.30
28:Z4:524:VAL:H	30:b4:238:ASN:CB	1.43	1.30
28:Z4:555:LYS:CE	30:b4:216:LEU:HD22	1.59	1.30
1:A1:1399:ARG:NH2	2:A2:885:LEU:O	1.64	1.30
3:A5:233:THR:HG23	5:C2:737:LYS:CB	1.60	1.30
3:A6:1350:VAL:HG22	28:Z4:917:ASP:CB	1.61	1.30
3:A6:1412:MSE:CG	28:Z4:965:TYR:CB	2.07	1.30
3:A6:1415:PHE:O	28:Z4:978:ALA:CB	1.69	1.30
6:D7:531:LEU:N	11:I3:181:GLN:HB3	1.29	1.30
11:I1:841:PHE:CD2	17:O1:243:LEU:CD1	2.13	1.30
11:I1:895:ARG:HE	17:O1:233:THR:CG2	1.41	1.30
11:I1:922:ASP:C	15:M1:589:GLY:O	1.73	1.30
11:I1:922:ASP:O	15:M1:593:ALA:HB2	1.26	1.30
11:I1:924:ILE:HG12	15:M1:592:LEU:O	1.22	1.30
11:I1:1032:THR:N	20:R1:176:ARG:C	1.71	1.30
11:I1:1039:ALA:N	20:R1:169:GLY:HA3	1.46	1.30
11:I1:1052:LEU:CD2	16:N1:438:LEU:HG	1.57	1.30
11:I2:890:TYR:H	17:O3:242:ARG:CG	1.42	1.30
11:I2:988:GLU:OE1	15:M3:613:ASP:N	1.65	1.30
17:O3:162:LYS:N	18:P3:315:GLU:OE1	1.65	1.30
28:Z1:407:GLY:O	30:b1:251:ILE:CD1	1.79	1.30
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HG13	1.28	1.30
2:A2:870:HIS:NE2	6:D1:566:PHE:HD1	1.18	1.30
2:A2:1135:ARG:C	3:A5:147:LEU:HD21	1.55	1.30
1:A3:1048:ARG:CZ	6:D3:819:ASN:ND2	1.93	1.30
1:A3:1220:PRO:CB	2:A4:646:ILE:HD13	1.61	1.30
2:A4:970:PHE:C	6:D3:202:GLN:CG	2.02	1.30
3:A5:1026:PRO:HB2	11:I5:73:TYR:CD1	1.52	1.30
3:A6:1316:VAL:CG2	28:Z4:871:HIS:CB	2.06	1.30
8:F1:1137:GLN:HB3	17:O2:248:SER:N	1.44	1.30
11:I2:890:TYR:H	17:O3:242:ARG:CD	1.43	1.30
11:I2:899:LEU:HD23	17:O3:235:ASN:CG	1.57	1.30
11:I2:922:ASP:HB3	15:M3:589:GLY:O	1.18	1.30
11:I2:1021:ILE:CG1	16:N3:410:MET:CE	2.09	1.30
11:I3:1267:LEU:HB3	26:X1:497:ARG:NH2	1.44	1.30
1:A1:870:HIS:CB	6:D3:279:HIS:C	2.04	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1220:PRO:CA	2:A4:646:ILE:CD1	1.90	1.30
9:G1:262:SER:C	17:O2:256:TYR:OH	1.72	1.30
11:I1:1021:ILE:N	16:N1:406:HIS:O	1.63	1.30
11:I1:1024:PHE:CB	16:N1:406:HIS:CB	1.96	1.30
11:I1:1037:THR:N	20:R1:173:LEU:CD2	1.95	1.30
11:I1:1048:GLU:CD	20:R1:143:PHE:CD1	1.86	1.30
11:I2:981:VAL:CB	20:R3:147:LEU:CD2	2.05	1.30
11:I5:1279:THR:HG23	26:X2:520:GLU:CB	1.62	1.30
28:Z1:401:THR:O	30:b1:254:SER:HB3	1.27	1.30
2:A2:876:ARG:HD2	6:D1:558:LYS:CB	1.63	1.29
2:A2:982:THR:CG2	6:D1:493:ALA:O	1.79	1.29
2:A2:1134:GLU:HG3	3:A5:146:LYS:CG	1.36	1.29
2:A4:909:LYS:CG	6:D3:552:TYR:CD2	2.12	1.29
2:A4:971:ALA:N	6:D3:202:GLN:CG	1.93	1.29
3:A5:188:ALA:HA	5:C2:746:PRO:CG	1.62	1.29
3:A6:221:SER:HB3	5:C4:738:ASP:OD1	1.23	1.29
3:A6:1323:VAL:HG12	28:Z4:912:ASP:N	1.45	1.29
3:A6:1401:VAL:CG2	28:Z4:912:ASP:CB	2.10	1.29
8:F1:1267:ARG:HG3	17:O2:265:ASN:OD1	1.24	1.29
11:I1:898:VAL:HB	17:O1:235:ASN:O	1.32	1.29
11:I1:922:ASP:N	15:M1:592:LEU:HD23	1.33	1.29
11:I1:977:ASN:OD1	15:M1:621:ARG:HB3	1.25	1.29
11:I2:950:LEU:HD21	16:N3:410:MET:CE	1.48	1.29
11:I4:775:ASP:OD1	29:a4:40[A]:GLU:HG2	1.24	1.29
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:NE2	1.95	1.29
2:A2:1163:TYR:CD2	3:A5:133:LYS:HE3	1.65	1.29
3:A5:1360:GLY:O	28:Z2:875:LEU:CB	1.79	1.29
3:A6:1360:GLY:O	28:Z4:872:TYR:CB	1.80	1.29
11:I2:846:ILE:CG2	17:O3:247:TRP:CZ2	2.14	1.29
11:I2:1109:LEU:CD1	17:O3:290:TYR:CE2	2.14	1.29
28:Z1:402:GLY:HA3	30:b1:254:SER:OG	1.18	1.29
28:Z2:524:VAL:H	30:b2:238:ASN:CB	1.43	1.29
28:Z4:402:GLY:CA	30:b4:254:SER:OG	1.78	1.29
1:A1:873:PRO:HB2	6:D3:218:LYS:NZ	1.46	1.29
2:A2:826:ASN:CG	6:D1:633:LYS:HB3	1.56	1.29
2:A2:874:VAL:CG2	6:D1:611:LYS:HG2	1.62	1.29
2:A2:982:THR:CG2	6:D1:494:LEU:O	1.80	1.29
2:A4:1075:LEU:HD22	3:A6:132:ASP:OD2	1.19	1.29
3:A5:1395:LYS:CA	28:Z2:873:LEU:CB	2.08	1.29
3:A6:1364:GLN:HA	28:Z4:849:ALA:CB	1.61	1.29
11:I1:992:ILE:H	15:M1:608:LYS:CG	1.31	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1037:THR:CG2	20:R1:173:LEU:HB2	1.50	1.29
11:I1:1038:ILE:HD13	15:M1:620:VAL:CG1	1.39	1.29
11:I1:1066:LEU:CB	16:N1:430:ARG:HD3	1.62	1.29
11:I2:989:GLY:HA3	15:M3:614:ASP:OD1	1.17	1.29
28:Z1:531:LYS:HD2	30:b1:182:PRO:O	1.27	1.29
28:Z3:407:GLY:O	30:b3:251:ILE:CD1	1.79	1.29
2:A2:864:ARG:NE	6:D1:610:ASN:OD1	1.64	1.29
2:A2:876:ARG:HD2	6:D1:558:LYS:CG	1.63	1.29
2:A4:864:ARG:O	6:D3:608:ILE:CD1	1.80	1.29
2:A4:1132:PRO:HG2	3:A6:159:SER:O	1.22	1.29
2:A4:1167:CYS:SG	4:B6:342:ARG:HG3	1.71	1.29
9:G1:258:LYS:O	17:O2:256:TYR:HB2	1.22	1.29
11:I1:1739:GLU:OE1	11:I2:1540:LYS:NZ	1.63	1.29
11:I2:1104:LEU:HD21	16:N3:433:GLU:CG	1.29	1.29
11:I3:1275:SER:HA	26:X1:508:LEU:CG	1.60	1.29
2:A2:1156:ASP:O	3:A5:167:TRP:HB2	1.32	1.29
2:A4:975:GLU:CB	6:D3:501:LEU:HD12	1.61	1.29
11:I1:1020:ALA:CB	16:N1:405:ALA:O	1.80	1.29
11:I1:1662:ARG:HD3	11:I2:1603:ARG:NH1	1.45	1.29
11:I3:1275:SER:CB	26:X1:522:MET:CA	1.84	1.29
18:P1:276:SER:CB	18:P4:322:LYS:HE2	1.57	1.29
28:Z1:410:ASN:CB	30:b1:251:ILE:CD1	1.85	1.29
1:A1:1091:VAL:CG1	6:D1:804:SER:HB2	1.63	1.28
2:A2:980:ARG:NH1	6:D1:525:ARG:CD	1.95	1.28
2:A2:1133:GLU:C	3:A5:138:LEU:CD2	2.06	1.28
2:A2:1133:GLU:CA	3:A5:138:LEU:CD2	2.10	1.28
1:A3:1083:SER:O	6:D3:798:MET:CG	1.77	1.28
2:A4:1125:LEU:H	3:A6:136:GLU:CB	1.42	1.28
2:A4:1133:GLU:C	3:A6:145:THR:CB	2.04	1.28
2:A4:1159:ASP:HA	4:B6:342:ARG:CA	1.44	1.28
3:A5:998:SER:HB3	11:I5:62:GLU:OE1	1.14	1.28
3:A6:1316:VAL:CG2	28:Z4:871:HIS:CA	2.10	1.28
11:I1:894:VAL:CG2	17:O1:238:ALA:HB3	1.60	1.28
11:I1:924:ILE:HD13	15:M1:595:MET:CB	1.58	1.28
11:I1:927:HIS:NE2	15:M1:594:LYS:HG3	1.48	1.28
11:I1:1103:LEU:HD13	20:R1:175:GLN:CG	1.62	1.28
11:I2:900:ARG:HA	17:O3:232:LYS:CD	1.61	1.28
28:Z4:523:ASP:HB2	30:b4:238:ASN:CA	1.13	1.28
1:A1:870:HIS:HB3	6:D3:279:HIS:CB	1.63	1.28
2:A2:982:THR:CG2	6:D1:494:LEU:C	2.06	1.28
2:A2:1143:LEU:HD11	3:A5:131:PRO:CB	1.61	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1332:ARG:O	6:D3:637:LYS:HD3	1.24	1.28
2:A4:173:ASN:ND2	6:D3:762:ARG:C	1.90	1.28
2:A4:864:ARG:CG	6:D3:605:THR:O	1.67	1.28
2:A4:1131:ILE:O	3:A6:141:GLY:CA	1.81	1.28
2:A4:1167:CYS:SG	4:B6:342:ARG:CG	2.21	1.28
3:A6:1409:MSE:CB	28:Z4:920:SER:CB	2.09	1.28
11:I1:841:PHE:CD2	17:O1:243:LEU:HD12	1.68	1.28
11:I1:884:LEU:CD1	16:N1:400:LEU:CD1	2.10	1.28
11:I1:976:ARG:NH2	15:M1:622:VAL:CG1	1.96	1.28
11:I1:992:ILE:CD1	15:M1:604:ASN:O	1.78	1.28
11:I1:1027:ALA:CA	20:R1:172:ASP:OD1	1.65	1.28
11:I2:957:SER:HA	20:R3:167:GLN:O	1.19	1.28
28:Z2:407:GLY:O	30:b2:251:ILE:CD1	1.79	1.28
28:Z4:401:THR:O	30:b4:254:SER:HB3	1.27	1.28
28:Z4:407:GLY:O	30:b4:251:ILE:CD1	1.79	1.28
2:A4:864:ARG:CB	6:D3:607:PRO:HD2	1.63	1.28
2:A4:868:GLN:CA	6:D3:570:VAL:CG1	2.11	1.28
11:I1:846:ILE:C	15:M1:594:LYS:CD	2.02	1.28
11:I1:877:ILE:HG21	17:O1:253:LEU:CB	1.63	1.28
11:I1:879:VAL:CG1	17:O1:244:GLU:O	1.81	1.28
11:I1:895:ARG:NE	17:O1:233:THR:HG22	1.45	1.28
11:I2:921:GLU:C	15:M3:592:LEU:O	1.75	1.28
11:I2:1104:LEU:HG	16:N3:433:GLU:OE2	1.31	1.28
17:O3:102:LYS:CB	18:P3:322:LYS:NZ	1.87	1.28
28:Z1:534:ASP:HB2	30:b1:183:LEU:N	1.48	1.28
1:A1:1201:ARG:NH1	2:A2:734:LEU:HG	0.98	1.28
2:A2:870:HIS:CD2	6:D1:566:PHE:CE1	2.20	1.28
2:A4:867:GLU:CG	6:D3:605:THR:HG21	1.62	1.28
9:G1:255:LEU:O	15:M2:602:MET:HB3	1.21	1.28
9:G1:269:GLU:HB2	16:N2:412:ASN:O	1.22	1.28
11:I2:922:ASP:HB2	20:R3:163:LEU:CD1	1.60	1.28
11:I2:976:ARG:HB3	20:R3:149:ARG:N	1.44	1.28
17:O3:147:ALA:HB1	18:P3:328:PRO:CB	1.61	1.28
28:Z3:534:ASP:HB2	30:b3:183:LEU:N	1.48	1.28
28:Z4:534:ASP:HB2	30:b4:183:LEU:N	1.48	1.28
28:Z4:742:GLU:CB	30:b4:135:ASN:ND2	1.97	1.28
2:A2:1148:ARG:C	5:C2:730:HIS:N	1.92	1.28
3:A5:227:SER:OG	5:C2:734:VAL:HG11	1.32	1.28
3:A6:1356:SER:O	28:Z4:885:VAL:CB	1.81	1.28
3:A6:1387:ILE:HG23	28:Z4:867:LYS:CB	1.64	1.28
3:A6:1412:MSE:N	28:Z4:964:LEU:CB	1.74	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1664:PHE:CD2	11:I2:1667:GLN:C	1.85	1.28
11:I2:1029:LEU:CD1	16:N3:433:GLU:CG	2.11	1.28
28:Z2:401:THR:O	30:b2:254:SER:HB3	1.27	1.28
2:A2:827:ILE:C	2:A2:863:GLN:CB	1.88	1.27
2:A2:980:ARG:NE	6:D1:525:ARG:HA	1.48	1.27
2:A4:827:ILE:C	2:A4:863:GLN:HB2	1.52	1.27
2:A4:1129:PRO:HB2	3:A6:142:GLU:OE2	1.14	1.27
3:A6:1414:PHE:H	28:Z4:964:LEU:CA	1.44	1.27
11:I1:1108:PRO:CG	16:N1:443:GLU:N	1.96	1.27
11:I2:894:VAL:HG12	17:O3:236:ASP:O	1.17	1.27
11:I2:920:PHE:O	15:M3:592:LEU:O	1.52	1.27
11:I2:952:LEU:HD23	15:M3:602:MET:CB	1.60	1.27
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG21	1.11	1.27
11:I4:1275:SER:CB	26:X3:525:ILE:HG13	1.64	1.27
17:O1:104:ASP:OD2	18:P1:322:LYS:HE3	1.11	1.27
28:Z2:402:GLY:HA3	30:b2:254:SER:OG	1.18	1.27
28:Z2:534:ASP:CB	30:b2:183:LEU:H	1.47	1.27
1:A3:1223:GLU:CG	2:A4:734:LEU:CD1	2.12	1.27
1:A3:1226:LEU:CA	2:A4:728:LYS:CB	2.07	1.27
2:A4:872:ALA:O	6:D3:565:MET:HA	1.14	1.27
2:A4:909:LYS:CD	6:D3:555:ARG:CZ	2.00	1.27
2:A4:976:LEU:HG	6:D3:501:LEU:CB	1.63	1.27
3:A5:153:ILE:HD12	5:C2:740:ARG:O	1.12	1.27
3:A5:164:LEU:HB3	5:C2:744:PHE:CD1	1.66	1.27
11:I1:945:LEU:CD2	17:O1:259:ASP:N	1.91	1.27
11:I1:1605:LEU:CD1	11:I2:1669:ARG:HD2	1.62	1.27
11:I2:887:GLN:CD	16:N3:393:ILE:HA	1.47	1.27
11:I2:891:LEU:HD11	16:N3:393:ILE:CD1	1.49	1.27
11:I2:917:TYR:O	15:M3:588:MET:HG2	1.29	1.27
28:Z4:401:THR:HB	30:b4:253:SER:C	0.85	1.27
2:A2:873:PRO:O	6:D1:563:GLU:CD	1.77	1.27
2:A2:973:GLU:CD	6:D1:205:LEU:HD13	1.47	1.27
2:A2:980:ARG:CZ	6:D1:525:ARG:HG2	1.61	1.27
2:A2:1159:ASP:HB2	3:A5:175:GLU:OE1	1.25	1.27
2:A4:876:ARG:CG	6:D3:563:GLU:O	1.81	1.27
2:A4:879:LEU:CD1	6:D3:564:ASN:OD1	1.83	1.27
2:A4:904:GLN:HE22	6:D3:603:SER:C	1.18	1.27
3:A5:1029:ILE:HG23	11:I5:69:GLY:C	1.34	1.27
3:A6:1351:MSE:CB	28:Z4:917:ASP:C	1.83	1.27
8:F2:140:GLU:CB	17:O4:237:PRO:CG	2.04	1.27
8:F2:1090:PRO:HG3	17:O4:245:GLU:OE2	1.33	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:254:ASN:O	15:M2:606:LEU:HB2	1.17	1.27
11:I1:880:MET:O	17:O1:246:LEU:HD23	1.16	1.27
11:I2:797:LEU:CD1	17:O3:245:GLU:HA	1.62	1.27
11:I2:922:ASP:CB	20:R3:163:LEU:HD13	1.52	1.27
11:I3:715:GLY:CA	29:a2:40[A]:GLU:OE2	1.79	1.27
11:I3:1275:SER:C	26:X1:522:MET:HB3	1.03	1.27
28:Z3:524:VAL:H	30:b3:238:ASN:CB	1.43	1.27
28:Z3:528:ILE:HG13	30:b3:210:ARG:NH1	1.37	1.27
28:Z3:534:ASP:CB	30:b3:183:LEU:H	1.47	1.27
2:A2:864:ARG:O	6:D1:608:ILE:HG12	1.33	1.27
2:A2:1149:THR:C	5:C2:730:HIS:O	1.76	1.27
3:A5:999:SER:O	11:I5:64:LYS:HD2	1.22	1.27
3:A5:1374:ALA:CB	28:Z2:823:ALA:C	2.06	1.27
3:A6:1362:ALA:HB1	28:Z4:870:ILE:O	1.33	1.27
9:G1:250:THR:C	15:M2:605:THR:HG21	1.59	1.27
11:I1:840:LEU:CG	17:O1:244:GLU:CG	2.01	1.27
11:I1:1014:ASN:HA	16:N1:411:GLN:O	1.14	1.27
11:I1:1021:ILE:CG1	16:N1:410:MET:CB	2.12	1.27
11:I1:1033:PRO:HB3	20:R1:174:ARG:O	1.23	1.27
11:I2:887:GLN:NE2	16:N3:393:ILE:CA	1.97	1.27
11:I2:956:ILE:O	20:R3:166:LEU:CD1	1.81	1.27
11:I3:1276:GLN:NE2	26:X1:535:ALA:O	1.67	1.27
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:NE2	1.95	1.27
28:Z2:528:ILE:HG13	30:b2:210:ARG:NH1	1.38	1.27
1:A1:831:ALA:O	6:D3:298:ASN:CB	1.81	1.27
2:A2:970:PHE:C	6:D1:202:GLN:HG3	1.59	1.27
2:A2:1121:LEU:CA	3:A5:133:LYS:CG	2.11	1.27
2:A4:989:MSE:HE2	6:D3:240:ASP:CG	1.57	1.27
3:A6:189:VAL:HG23	5:C4:745:SER:CB	1.65	1.27
3:A6:1410:ALA:HB3	26:X4:742:ALA:C	1.60	1.27
8:F1:1262:HIS:NE2	17:O2:259:ASP:HB2	1.49	1.27
11:I1:945:LEU:HD23	17:O1:259:ASP:N	0.96	1.27
11:I1:981:VAL:HG11	20:R1:151:LYS:CB	1.59	1.27
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG12	1.52	1.27
11:I1:1669:ARG:CD	11:I2:1605:LEU:HD13	1.63	1.27
11:I2:951:LYS:CE	16:N3:400:LEU:O	1.83	1.27
11:I2:967:SER:HB2	15:M3:625:GLY:CA	1.63	1.27
17:O1:103:VAL:HG13	18:P1:326:GLN:NE2	1.45	1.27
28:Z1:742:GLU:CB	30:b1:135:ASN:ND2	1.97	1.27
28:Z2:401:THR:HB	30:b2:253:SER:C	0.85	1.27
2:A4:986:THR:CB	6:D3:504:LYS:CD	2.04	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:165:PHE:CD2	5:C4:743:LEU:HD13	1.66	1.26
11:I1:965:ALA:HB2	20:R1:163:LEU:O	1.32	1.26
11:I1:980:ILE:HB	15:M1:618:GLN:O	1.18	1.26
11:I1:1739:GLU:O	11:I2:1604:ALA:HA	1.29	1.26
11:I2:984:GLU:OE2	15:M3:615:PRO:CA	1.82	1.26
11:I3:1267:LEU:CG	26:X1:497:ARG:NH1	1.97	1.26
17:O3:154:ARG:CD	18:P3:324:LEU:HD13	1.64	1.26
28:Z1:534:ASP:CB	30:b1:183:LEU:H	1.47	1.26
28:Z2:523:ASP:HB2	30:b2:238:ASN:CA	1.13	1.26
28:Z2:742:GLU:CB	30:b2:135:ASN:ND2	1.97	1.26
2:A2:1155:ASN:C	3:A5:175:GLU:HG2	1.57	1.26
1:A3:1054:SER:HA	6:D3:809:ALA:O	1.35	1.26
3:A6:165:PHE:CD2	5:C4:743:LEU:CD2	2.18	1.26
8:F1:1261:TYR:CE1	17:O2:263:GLN:CB	2.19	1.26
11:I1:919:ALA:CB	16:N1:389:PHE:HA	1.63	1.26
11:I1:924:ILE:CG1	15:M1:592:LEU:O	1.83	1.26
11:I1:953:LEU:O	16:N1:399:HIS:NE2	1.68	1.26
11:I1:1667:GLN:O	11:I2:1664:PHE:HD2	1.11	1.26
11:I2:896:PRO:HA	17:O3:232:LYS:C	1.58	1.26
11:I2:920:PHE:C	15:M3:592:LEU:CA	2.08	1.26
11:I2:1038:ILE:HG13	20:R3:167:GLN:OE1	1.32	1.26
11:I4:1277:LEU:CD1	26:X3:521:TRP:CE3	2.17	1.26
18:P2:319:VAL:CG2	18:P3:278:ASN:OD1	1.81	1.26
2:A2:1135:ARG:HA	3:A5:147:LEU:CD2	1.38	1.26
2:A4:861:GLN:O	6:D3:607:PRO:HG3	1.36	1.26
3:A5:1369:ILE:CD1	28:Z2:829:SER:O	1.75	1.26
11:I1:1069:SER:C	16:N1:429:GLU:HG2	1.56	1.26
11:I2:966:TRP:O	20:R3:150:ASN:HA	1.34	1.26
11:I2:967:SER:OG	15:M3:625:GLY:HA2	1.36	1.26
11:I2:985:ARG:C	15:M3:613:ASP:HB2	1.43	1.26
28:Z1:407:GLY:O	30:b1:251:ILE:HD11	1.09	1.26
1:A1:1333:ARG:O	6:D1:637:LYS:NZ	1.68	1.26
2:A2:866:SER:HB3	6:D1:602:THR:O	1.10	1.26
1:A3:1052:THR:OG1	6:D3:816:VAL:CB	1.82	1.26
2:A4:1135:ARG:NH2	3:A6:167:TRP:CZ3	1.99	1.26
3:A5:999:SER:O	11:I5:64:LYS:CD	1.82	1.26
3:A5:1031:TYR:HD1	11:I5:67:LYS:NZ	1.28	1.26
4:B6:345:LYS:O	5:C4:737:LYS:HD2	1.36	1.26
11:I1:923:GLY:HA2	15:M1:590:LYS:C	1.59	1.26
11:I1:952:LEU:N	17:O1:253:LEU:HD13	1.47	1.26
11:I1:1048:GLU:OE1	20:R1:143:PHE:CE1	1.89	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1049:LEU:CB	20:R1:146:LEU:HD13	1.63	1.26
11:I2:921:GLU:O	15:M3:593:ALA:HA	1.35	1.26
17:O3:162:LYS:N	18:P3:315:GLU:CD	1.94	1.26
28:Z1:555:LYS:HE3	30:b1:216:LEU:CD2	1.63	1.26
28:Z3:394:ASP:OD2	30:b3:241:PRO:HA	1.08	1.26
28:Z3:407:GLY:O	30:b3:251:ILE:HD11	1.09	1.26
28:Z4:401:THR:O	30:b4:254:SER:CB	1.84	1.26
28:Z4:534:ASP:CB	30:b4:183:LEU:H	1.47	1.26
1:A1:1221:ILE:HG23	2:A2:642:ARG:O	1.09	1.26
2:A2:872:ALA:HB1	6:D1:565:MET:CA	1.56	1.26
2:A2:977:VAL:C	6:D1:496:LEU:HD12	1.59	1.26
2:A4:868:GLN:NE2	6:D3:608:ILE:HB	1.49	1.26
2:A4:1163:TYR:CE2	3:A6:137:HIS:CE1	2.21	1.26
3:A5:1374:ALA:CB	28:Z2:824:PHE:N	1.98	1.26
3:A5:1406:GLY:CA	28:Z2:921:THR:CB	2.14	1.26
3:A6:146:LYS:HD3	5:C4:746:PRO:CA	1.40	1.26
11:I1:934:LEU:C	15:M1:602:MET:O	1.69	1.26
11:I2:846:ILE:CG2	17:O3:247:TRP:CH2	2.17	1.26
11:I2:900:ARG:CB	17:O3:232:LYS:HD3	1.64	1.26
11:I2:948:ALA:HB1	17:O3:253:LEU:CA	1.63	1.26
11:I2:1054:ILE:O	17:O3:281:ALA:HB3	1.09	1.26
28:Z1:401:THR:HB	30:b1:253:SER:C	0.85	1.26
2:A2:780:GLU:CB	6:D1:677:GLN:O	1.84	1.25
2:A2:1156:ASP:O	3:A5:167:TRP:CB	1.84	1.25
2:A4:863:GLN:HG3	6:D3:603:SER:O	1.29	1.25
2:A4:867:GLU:OE1	6:D3:605:THR:OG1	1.54	1.25
2:A4:973:GLU:O	6:D3:499:LEU:HD21	1.10	1.25
3:A6:1319:ILE:HG21	28:Z4:874:ASN:CA	1.66	1.25
9:G1:250:THR:O	15:M2:605:THR:HG21	1.20	1.25
11:I1:976:ARG:HH12	15:M1:622:VAL:CG1	1.41	1.25
11:I1:1026:TYR:CZ	20:R1:175:GLN:NE2	2.02	1.25
11:I2:934:LEU:CB	15:M3:602:MET:O	1.78	1.25
11:I2:976:ARG:NH1	15:M3:622:VAL:HG22	1.48	1.25
28:Z3:523:ASP:HB2	30:b3:238:ASN:CA	1.13	1.25
28:Z3:742:GLU:CB	30:b3:135:ASN:ND2	1.97	1.25
28:Z4:523:ASP:CB	30:b4:238:ASN:HA	1.12	1.25
28:Z4:531:LYS:HD2	30:b4:182:PRO:O	1.27	1.25
2:A2:1136:LYS:HA	3:A5:134:VAL:CG1	1.65	1.25
2:A2:1148:ARG:NH2	3:A5:171:HIS:O	1.70	1.25
2:A4:907:SER:C	6:D3:552:TYR:OH	1.77	1.25
3:A6:1327:VAL:CG2	28:Z4:912:ASP:CB	2.14	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:881:ILE:N	17:O1:249:ARG:CB	1.93	1.25
11:I2:1048:GLU:O	17:O3:287:LEU:HD23	1.32	1.25
28:Z1:522:ASN:H	30:b1:241:PRO:CG	1.29	1.25
28:Z2:555:LYS:HE3	30:b2:216:LEU:CD2	1.63	1.25
28:Z3:555:LYS:HE3	30:b3:216:LEU:CD2	1.63	1.25
28:Z4:407:GLY:O	30:b4:251:ILE:HD11	1.09	1.25
2:A2:866:SER:O	6:D1:598:ILE:HG23	1.15	1.25
2:A4:907:SER:O	6:D3:552:TYR:OH	1.54	1.25
2:A4:1148:ARG:C	5:C4:730:HIS:N	1.92	1.25
3:A6:1387:ILE:O	28:Z4:866:GLU:N	1.69	1.25
11:I1:928:LEU:HD21	20:R1:154:ALA:O	1.31	1.25
11:I1:1103:LEU:CD1	20:R1:175:GLN:CG	2.14	1.25
11:I2:899:LEU:C	17:O3:232:LYS:HG2	1.60	1.25
11:I3:1267:LEU:HB2	26:X1:497:ARG:CZ	1.64	1.25
11:I3:1275:SER:OG	26:X1:522:MET:CG	1.84	1.25
28:Z2:535:ILE:CG1	30:b2:182:PRO:CB	2.14	1.25
28:Z2:551:THR:HG22	30:b2:233:TRP:CH2	1.71	1.25
3:A5:993:ASN:C	11:I5:57:GLU:HG2	0.83	1.25
11:I2:995:SER:HA	17:O3:267:ALA:CB	1.65	1.25
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB3	1.69	1.25
11:I2:1053:GLY:HA3	17:O3:281:ALA:C	1.39	1.25
28:Z1:554:PHE:CD1	30:b1:232:PRO:HG2	1.72	1.25
28:Z3:401:THR:O	30:b3:254:SER:CB	1.84	1.25
28:Z4:551:THR:HG22	30:b4:233:TRP:CH2	1.71	1.25
2:A2:1134:GLU:H	3:A5:146:LYS:N	1.34	1.25
2:A2:1159:ASP:CB	3:A5:175:GLU:OE2	1.82	1.25
1:A3:1083:SER:O	6:D3:798:MET:HG3	1.13	1.25
2:A4:860:GLU:HG2	6:D3:606:LYS:CB	1.58	1.25
3:A5:1098:ARG:CD	11:I5:29:GLN:HG2	1.65	1.25
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CB	2.00	1.25
8:F1:1137:GLN:HB2	17:O2:244:GLU:O	1.32	1.25
11:I1:846:ILE:O	15:M1:594:LYS:HD3	1.32	1.25
11:I1:933:ASP:CA	15:M1:605:THR:HG21	1.66	1.25
11:I1:1103:LEU:HD11	20:R1:175:GLN:NE2	1.49	1.25
11:I2:1106:LYS:CB	16:N3:440:GLU:OE2	1.83	1.25
11:I4:1277:LEU:HD12	26:X3:521:TRP:CE3	1.71	1.25
15:M1:507:GLN:OE1	18:P1:318:PRO:CG	1.83	1.25
28:Z3:551:THR:CG2	30:b3:233:TRP:CH2	2.17	1.25
1:A3:1203:TYR:HB3	2:A4:732:GLN:CD	1.47	1.25
2:A4:865:ALA:O	6:D3:598:ILE:HD11	1.32	1.25
3:A5:996:ASN:ND2	11:I5:58:ALA:CB	1.80	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1109:LEU:N	16:N1:441:PHE:N	1.84	1.25
11:I1:1604:ALA:HA	11:I2:1739:GLU:O	1.28	1.25
11:I2:997:SER:OG	16:N3:427:VAL:HG23	1.29	1.25
11:I4:1275:SER:O	26:X3:522:MET:CG	1.67	1.25
28:Z2:394:ASP:OD2	30:b2:241:PRO:HA	1.08	1.25
2:A2:1143:LEU:CD1	3:A5:131:PRO:HB3	1.64	1.24
3:A6:1394:VAL:HG11	28:Z4:869:HIS:O	1.10	1.24
8:F1:1137:GLN:CG	17:O2:248:SER:N	1.97	1.24
8:F1:1264:ARG:O	17:O2:265:ASN:HB3	1.33	1.24
11:I1:987:GLY:CA	15:M1:611:LYS:HG2	1.65	1.24
11:I1:1667:GLN:C	11:I2:1664:PHE:CD2	1.76	1.24
11:I4:1271:GLU:HB2	26:X3:528:GLU:OE1	1.34	1.24
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:NE2	1.95	1.24
28:Z1:401:THR:O	30:b1:254:SER:CB	1.84	1.24
28:Z2:534:ASP:HB2	30:b2:183:LEU:N	1.48	1.24
2:A2:1133:GLU:O	3:A5:138:LEU:CD2	1.84	1.24
2:A2:1142:PHE:HZ	3:A5:567:VAL:CB	1.48	1.24
2:A2:1149:THR:CA	5:C2:730:HIS:C	2.10	1.24
1:A3:1201:ARG:C	2:A4:731:ILE:O	1.80	1.24
2:A4:975:GLU:HB3	6:D3:501:LEU:CB	1.66	1.24
3:A6:173:ASN:HB2	5:C4:730:HIS:N	0.92	1.24
3:A6:1319:ILE:CG2	28:Z4:874:ASN:CB	2.15	1.24
8:F1:1203:TRP:CZ2	17:O2:248:SER:CB	2.17	1.24
8:F2:140:GLU:CB	17:O4:237:PRO:HG2	1.56	1.24
11:I1:951:LYS:N	16:N1:403:VAL:HG12	1.46	1.24
11:I1:1664:PHE:HD2	11:I2:1667:GLN:O	1.14	1.24
11:I1:1669:ARG:NH1	11:I2:1642:LEU:HD13	1.52	1.24
11:I2:980:ILE:CA	15:M3:618:GLN:HA	1.66	1.24
11:I2:1017:VAL:CG2	16:N3:411:GLN:HA	1.00	1.24
11:I4:1277:LEU:CD1	26:X3:521:TRP:CD2	2.21	1.24
17:O3:162:LYS:H	18:P3:315:GLU:CD	1.42	1.24
17:O4:107:THR:CG2	18:P4:321:ILE:HD12	1.64	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:CG1	2.15	1.24
1:A1:1201:ARG:HH11	2:A2:734:LEU:CD2	1.49	1.24
2:A2:780:GLU:CG	6:D1:678:GLY:C	2.07	1.24
2:A2:827:ILE:C	2:A2:863:GLN:HB2	1.52	1.24
2:A2:1159:ASP:N	3:A5:175:GLU:HB2	1.53	1.24
2:A2:1163:TYR:OH	3:A5:137:HIS:NE2	1.63	1.24
2:A4:1139:ILE:N	3:A6:138:LEU:CD1	1.99	1.24
11:I1:884:LEU:HD22	16:N1:396:ILE:CG2	1.54	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:955:LYS:HE3	16:N1:397:GLU:O	1.10	1.24
11:I1:957:SER:O	20:R1:168:LEU:HD21	1.29	1.24
11:I1:986:ASN:C	15:M1:613:ASP:H	1.42	1.24
11:I1:1669:ARG:N	11:I2:1664:PHE:CZ	2.06	1.24
11:I2:899:LEU:CD2	17:O3:235:ASN:CG	2.10	1.24
11:I2:948:ALA:HB1	17:O3:253:LEU:C	1.59	1.24
11:I2:1017:VAL:HG13	16:N3:410:MET:CG	1.65	1.24
11:I3:1267:LEU:HD23	26:X1:497:ARG:NH2	1.42	1.24
11:I3:1275:SER:OG	26:X1:522:MET:HG2	1.11	1.24
11:I4:1279:THR:CG2	26:X3:523:LEU:CA	2.03	1.24
28:Z1:535:ILE:CG1	30:b1:182:PRO:CB	2.14	1.24
28:Z3:401:THR:HB	30:b3:253:SER:C	0.85	1.24
28:Z4:394:ASP:OD2	30:b4:241:PRO:CA	1.85	1.24
28:Z4:535:ILE:CG1	30:b4:182:PRO:CB	2.14	1.24
2:A2:781:ARG:NE	6:D1:673:ARG:HB3	1.50	1.24
2:A4:861:GLN:N	6:D3:606:LYS:NZ	1.61	1.24
3:A6:233:THR:O	5:C4:738:ASP:CA	1.79	1.24
3:A6:1416:ARG:HG2	28:Z4:966:CYS:C	1.60	1.24
6:D7:530:ARG:C	11:I3:181:GLN:HB3	1.52	1.24
9:G2:255:LEU:HD12	17:O4:262:ASP:OD1	1.17	1.24
11:I1:1664:PHE:CZ	11:I2:1669:ARG:N	1.97	1.24
11:I2:966:TRP:CZ3	20:R3:167:GLN:HG2	1.67	1.24
11:I2:967:SER:CB	15:M3:625:GLY:CA	2.14	1.24
28:Z1:528:ILE:O	30:b1:184:SER:CB	1.82	1.24
28:Z1:551:THR:HG22	30:b1:233:TRP:CH2	1.71	1.24
28:Z2:401:THR:O	30:b2:254:SER:CB	1.84	1.24
1:A1:870:HIS:O	6:D3:279:HIS:HB3	1.34	1.24
2:A2:1149:THR:HA	5:C2:730:HIS:O	1.30	1.24
2:A2:1149:THR:O	3:A5:173:ASN:HB3	1.33	1.24
2:A4:1148:ARG:HH11	3:A6:131:PRO:CD	1.51	1.24
2:A4:1148:ARG:NH1	3:A6:131:PRO:HG3	1.53	1.24
3:A5:1376:LEU:O	28:Z2:811:LEU:O	1.54	1.24
8:F1:1267:ARG:HG2	17:O2:265:ASN:O	1.36	1.24
11:I1:980:ILE:CB	15:M1:618:GLN:O	1.86	1.24
11:I1:992:ILE:HD13	15:M1:604:ASN:O	1.32	1.24
11:I2:1020:ALA:HB2	16:N3:407:ALA:C	1.61	1.24
11:I2:1029:LEU:HD12	16:N3:433:GLU:OE1	1.27	1.24
11:I2:1186:PRO:HG3	17:O4:225:GLN:NE2	0.91	1.24
28:Z1:394:ASP:OD2	30:b1:241:PRO:CA	1.85	1.24
28:Z1:557:CYS:CB	30:b1:210:ARG:HH11	1.48	1.24
28:Z2:551:THR:CG2	30:b2:233:TRP:CH2	2.17	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:554:PHE:CD1	30:b4:232:PRO:HG2	1.72	1.24
1:A3:1204:TRP:HB3	2:A4:731:ILE:CG2	1.61	1.23
2:A4:875:LEU:O	6:D3:564:ASN:HB3	1.17	1.23
2:A4:989:MSE:CE	6:D3:240:ASP:CG	2.11	1.23
3:A5:179:TYR:HB3	5:C2:744:PHE:CD2	1.44	1.23
3:A5:993:ASN:O	11:I5:57:GLU:HG2	1.37	1.23
3:A5:1369:ILE:HG21	28:Z2:830:LEU:CB	1.37	1.23
3:A5:1392:ARG:HG2	28:Z2:866:GLU:O	1.27	1.23
8:F1:1267:ARG:CG	17:O2:265:ASN:OD1	1.85	1.23
9:G1:253:SER:OG	15:M2:601:ASP:HB3	1.34	1.23
9:G1:258:LYS:HB2	17:O2:253:LEU:CD2	1.68	1.23
11:I1:931:VAL:HG23	15:M1:603:SER:OG	1.27	1.23
11:I1:953:LEU:N	16:N1:403:VAL:HG21	1.15	1.23
11:I1:1014:ASN:CA	16:N1:411:GLN:O	1.86	1.23
11:I1:1104:LEU:HB3	16:N1:436:ALA:CB	1.68	1.23
11:I2:956:ILE:O	20:R3:166:LEU:HD13	1.27	1.23
11:I2:968:PRO:CD	20:R3:153:GLN:HB2	1.66	1.23
11:I2:1020:ALA:HB3	16:N3:410:MET:N	1.50	1.23
2:A2:823:VAL:HA	2:A2:856:PHE:CE1	1.43	1.23
1:A3:1221:ILE:HD13	2:A4:641:ALA:O	1.09	1.23
2:A4:868:GLN:CG	6:D3:608:ILE:HD13	1.58	1.23
2:A4:873:PRO:HG3	6:D3:572:GLU:OE2	1.35	1.23
3:A5:1359:LEU:HB2	28:Z2:878:HIS:N	1.38	1.23
3:A6:1385:GLU:CA	28:Z4:863:ASP:H	1.43	1.23
6:D7:530:ARG:CG	11:I3:181:GLN:HB2	1.68	1.23
11:I1:884:LEU:CD1	16:N1:400:LEU:HD12	1.66	1.23
11:I1:920:PHE:CE1	17:O1:247:TRP:CD1	2.25	1.23
11:I1:947:LEU:CD1	16:N1:411:GLN:HG2	1.66	1.23
11:I1:1043:LEU:O	16:N1:430:ARG:HG3	1.33	1.23
11:I1:1673:VAL:N	11:I2:1611:PHE:C	1.96	1.23
11:I2:920:PHE:CA	15:M3:592:LEU:HA	1.69	1.23
11:I2:942:HIS:HB2	17:O3:259:ASP:O	1.37	1.23
11:I2:1055:GLU:O	17:O3:278:GLU:HA	1.34	1.23
11:I3:1277:LEU:CD2	26:X1:513:PHE:CB	2.15	1.23
28:Z2:554:PHE:CD1	30:b2:232:PRO:HG2	1.72	1.23
28:Z3:401:THR:O	30:b3:254:SER:HB3	1.27	1.23
1:A3:1224:PRO:CA	2:A4:731:ILE:HD13	1.67	1.23
2:A4:861:GLN:O	6:D3:607:PRO:CG	1.85	1.23
2:A4:972:GLY:CA	6:D3:204:ASN:OD1	1.85	1.23
3:A6:1369:ILE:CB	28:Z4:826:TYR:CB	2.14	1.23
3:A6:1398:LYS:O	28:Z4:886:LEU:CB	1.86	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:833:PHE:CE2	17:O1:241:SER:HB3	1.72	1.23
11:I1:881:ILE:N	17:O1:249:ARG:HB3	1.18	1.23
11:I1:916:ALA:O	16:N1:389:PHE:HZ	0.91	1.23
11:I1:966:TRP:CG	20:R1:165:SER:O	1.90	1.23
11:I1:967:SER:CB	15:M1:625:GLY:CA	2.09	1.23
11:I1:1020:ALA:CA	16:N1:405:ALA:C	1.97	1.23
11:I1:1107:SER:CB	16:N1:440:GLU:OE1	1.78	1.23
11:I2:884:LEU:CG	16:N3:400:LEU:HD11	1.69	1.23
11:I2:990:GLU:CB	17:O3:272:SER:HA	1.68	1.23
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:NE2	1.95	1.23
28:Z3:554:PHE:CD1	30:b3:232:PRO:HG2	1.72	1.23
1:A1:1221:ILE:CD1	2:A2:618:ALA:HB2	1.68	1.23
2:A4:782:VAL:CG2	6:D3:676:ALA:O	1.87	1.23
2:A4:868:GLN:C	6:D3:570:VAL:HG11	1.63	1.23
2:A4:1055:ARG:HD3	6:D4:762:ARG:CB	1.69	1.23
3:A5:1091:VAL:HG12	11:I5:36:GLU:OE1	1.27	1.23
3:A6:1410:ALA:CA	26:X4:742:ALA:O	1.87	1.23
8:F1:1137:GLN:HG2	17:O2:249:ARG:N	1.48	1.23
11:I2:899:LEU:CG	17:O3:235:ASN:H	1.50	1.23
11:I2:1031:ALA:N	20:R3:173:LEU:HA	1.47	1.23
28:Z4:555:LYS:HE3	30:b4:216:LEU:CD2	1.63	1.23
2:A2:780:GLU:N	6:D1:678:GLY:N	1.87	1.23
2:A2:971:ALA:O	6:D1:203:PRO:HG2	1.35	1.23
2:A2:1125:LEU:HA	3:A5:137:HIS:CD2	1.74	1.23
2:A4:865:ALA:CB	6:D3:567:LEU:HD21	1.69	1.23
2:A4:969:ASP:C	6:D3:202:GLN:HG3	1.62	1.23
3:A5:1369:ILE:CG2	28:Z2:831:LEU:N	2.00	1.23
3:A6:189:VAL:CG2	5:C4:745:SER:CB	2.14	1.23
11:I1:894:VAL:HG21	17:O1:238:ALA:CB	1.68	1.23
11:I1:1052:LEU:HD12	17:O1:287:LEU:CD1	1.68	1.23
11:I1:1052:LEU:HD22	16:N1:438:LEU:CG	1.59	1.23
11:I2:956:ILE:O	20:R3:166:LEU:HB2	1.39	1.23
11:I2:1036:PRO:HG2	15:M3:623:LEU:N	1.33	1.23
17:O4:109:PRO:HD2	18:P4:318:PRO:CG	1.69	1.23
28:Z2:407:GLY:O	30:b2:251:ILE:HD11	1.09	1.23
28:Z4:401:THR:C	30:b4:254:SER:CB	2.08	1.23
28:Z4:522:ASN:H	30:b4:241:PRO:CG	1.29	1.23
2:A2:970:PHE:CD1	6:D1:192:TYR:HE1	1.57	1.22
2:A2:1128:ASP:N	3:A5:137:HIS:HA	1.54	1.22
2:A2:1149:THR:N	5:C2:730:HIS:N	1.85	1.22
3:A5:179:TYR:HB3	5:C2:744:PHE:CG	1.34	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:960:SER:HB2	16:N1:395:GLU:OE2	1.31	1.22
11:I2:980:ILE:CB	15:M3:618:GLN:CA	1.96	1.22
11:I2:1015:TYR:HB3	16:N3:412:ASN:OD1	1.34	1.22
11:I2:1048:GLU:O	17:O3:287:LEU:CB	1.87	1.22
11:I2:1100:ILE:HG23	16:N3:433:GLU:OE1	1.12	1.22
17:O4:106:HIS:O	18:P4:318:PRO:CG	1.87	1.22
17:O4:110:LEU:HD23	18:P4:321:ILE:CA	1.69	1.22
28:Z2:394:ASP:OD2	30:b2:241:PRO:CA	1.85	1.22
28:Z3:394:ASP:OD2	30:b3:241:PRO:CA	1.85	1.22
2:A2:223:THR:CB	6:D1:709:ARG:HH22	1.50	1.22
2:A4:777:LEU:C	6:D3:678:GLY:HA3	1.52	1.22
2:A4:982:THR:HG21	6:D3:495:VAL:C	1.61	1.22
2:A4:1129:PRO:O	3:A6:142:GLU:CB	1.85	1.22
3:A5:1024:ASP:HB2	11:I5:94:GLU:O	1.37	1.22
3:A5:1369:ILE:CG2	28:Z2:827:GLN:O	1.84	1.22
3:A6:1401:VAL:HA	28:Z4:919:PHE:CB	1.69	1.22
11:I1:1055:GLU:HG2	17:O1:280:GLU:CG	1.67	1.22
11:I2:890:TYR:N	17:O3:242:ARG:NE	1.87	1.22
11:I2:968:PRO:HD3	20:R3:153:GLN:CB	1.37	1.22
28:Z3:561:GLN:CB	30:b3:236:THR:N	2.02	1.22
1:A3:835:THR:CG2	6:D1:302:PRO:CG	2.16	1.22
1:A3:1087:GLY:CA	6:D3:796:ALA:O	1.86	1.22
2:A4:983:LEU:HD22	6:D3:497:PHE:CE1	1.75	1.22
3:A5:177:ILE:O	5:C2:743:LEU:HD23	1.24	1.22
3:A5:188:ALA:CA	5:C2:746:PRO:CG	2.08	1.22
3:A5:1026:PRO:O	11:I5:68:ILE:N	1.66	1.22
3:A5:1090:SER:O	11:I5:36:GLU:HG3	1.11	1.22
3:A5:1391:ARG:HB2	28:Z2:867:LYS:O	1.05	1.22
11:I1:978:LYS:HD3	20:R1:153:GLN:N	1.36	1.22
11:I1:1109:LEU:HB2	16:N1:441:PHE:CA	1.68	1.22
11:I1:1114:VAL:HG22	16:N1:432:TYR:O	1.09	1.22
11:I2:884:LEU:HB2	16:N3:400:LEU:CD1	1.67	1.22
11:I2:989:GLY:CA	15:M3:614:ASP:CG	2.11	1.22
11:I2:1110:SER:OG	16:N3:438:LEU:CG	1.87	1.22
28:Z3:551:THR:HG22	30:b3:233:TRP:CH2	1.71	1.22
2:A2:780:GLU:N	6:D1:679:ILE:H	1.36	1.22
1:A3:1221:ILE:HD13	2:A4:641:ALA:C	1.63	1.22
2:A4:879:LEU:HB2	6:D3:564:ASN:CB	1.69	1.22
2:A4:970:PHE:N	6:D3:202:GLN:HG3	0.90	1.22
2:A4:985:ALA:O	6:D3:500:LYS:CD	1.87	1.22
2:A4:1149:THR:OG1	3:A6:173:ASN:O	1.55	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1410:ALA:HB2	26:X4:744:MET:C	1.65	1.22
8:F1:1138:TRP:HB2	17:O2:244:GLU:CG	1.68	1.22
11:I1:883:ALA:CA	17:O1:246:LEU:HB2	1.37	1.22
11:I2:890:TYR:N	17:O3:242:ARG:HG3	1.50	1.22
11:I2:980:ILE:CG2	15:M3:621:ARG:HB2	1.69	1.22
11:I3:1271:GLU:C	26:X1:525:ILE:CG2	2.12	1.22
11:I4:1274:HIS:ND1	26:X3:531:LEU:CD1	2.03	1.22
28:Z1:394:ASP:OD2	30:b1:241:PRO:HA	1.08	1.22
2:A2:1151:THR:HG22	3:A5:171:HIS:CD2	1.74	1.22
3:A6:1392:ARG:NE	28:Z4:901:ARG:CB	2.00	1.22
6:D3:743:HIS:CD2	11:I2:1528:ARG:HD2	1.73	1.22
11:I1:884:LEU:CG	16:N1:396:ILE:HG22	1.67	1.22
11:I1:1034:ASP:OD1	15:M1:627:LEU:CD2	1.87	1.22
11:I2:1035:GLN:O	15:M3:623:LEU:CD2	1.84	1.22
11:I2:1059:PRO:HB3	17:O3:273:ASP:O	1.23	1.22
11:I2:1059:PRO:HB3	17:O3:273:ASP:C	1.62	1.22
11:I2:1186:PRO:CG	17:O4:225:GLN:NE2	1.82	1.22
11:I3:1267:LEU:HD22	26:X1:497:ARG:NE	1.55	1.22
28:Z1:525:LEU:C	30:b1:208:ASN:HD21	1.46	1.22
1:A3:1099:GLN:HG2	11:I2:1414:CYS:O	1.38	1.21
2:A4:877:ALA:CA	6:D3:563:GLU:HA	1.34	1.21
3:A6:1356:SER:HG	28:Z4:884:GLU:N	1.38	1.21
6:D7:527:ASN:O	11:I3:181:GLN:CG	1.85	1.21
11:I1:894:VAL:HG21	17:O1:238:ALA:N	1.52	1.21
11:I1:965:ALA:HB3	20:R1:165:SER:N	1.53	1.21
11:I1:990:GLU:HG2	17:O1:275:LEU:CD2	1.69	1.21
11:I1:1037:THR:CB	15:M1:624:ASN:HD21	1.52	1.21
11:I1:1051:LYS:CE	17:O1:289:ASP:H	1.51	1.21
11:I1:1109:LEU:CG	16:N1:441:PHE:HB2	1.65	1.21
11:I3:1273:GLU:HG2	26:X1:535:ALA:CB	1.70	1.21
2:A2:865:ALA:HB3	6:D1:604:ASP:O	1.05	1.21
2:A4:868:GLN:HE21	6:D3:608:ILE:CG1	1.53	1.21
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB2	1.58	1.21
3:A5:1367:THR:O	28:Z2:825:TYR:O	1.56	1.21
3:A5:1369:ILE:HD11	28:Z2:832:PHE:N	1.56	1.21
3:A6:175:GLU:OE2	5:C4:735:ILE:HA	1.37	1.21
3:A6:1376:LEU:HA	28:Z4:814:THR:O	1.36	1.21
8:F2:1090:PRO:CG	17:O4:245:GLU:OE2	1.87	1.21
11:I1:883:ALA:HB1	17:O1:243:LEU:CA	1.69	1.21
11:I1:919:ALA:C	15:M1:592:LEU:HD22	1.64	1.21
11:I1:947:LEU:HD13	17:O1:256:TYR:OH	1.09	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:952:LEU:CA	16:N1:400:LEU:CD2	2.18	1.21
11:I1:978:LYS:CD	20:R1:153:GLN:N	2.00	1.21
11:I2:899:LEU:HG	17:O3:235:ASN:N	1.55	1.21
11:I2:939:ASN:ND2	17:O3:265:ASN:OD1	1.72	1.21
11:I2:978:LYS:HZ2	20:R3:155:GLU:CB	1.52	1.21
11:I2:985:ARG:N	15:M3:613:ASP:CB	1.77	1.21
11:I2:1039:ALA:CA	20:R3:170:LEU:HD11	1.67	1.21
11:I2:1048:GLU:O	17:O3:287:LEU:CD2	1.87	1.21
11:I3:1272:TYR:C	26:X1:526:CYS:H	1.17	1.21
11:I5:1273:GLU:C	26:X2:524:SER:OG	1.82	1.21
28:Z2:561:GLN:CB	30:b2:236:THR:N	2.02	1.21
28:Z4:394:ASP:OD2	30:b4:241:PRO:HA	1.08	1.21
2:A2:864:ARG:NH1	6:D1:610:ASN:ND2	1.87	1.21
2:A4:1129:PRO:HB2	3:A6:142:GLU:CD	1.62	1.21
3:A5:1369:ILE:HG23	28:Z2:827:GLN:O	1.35	1.21
3:A6:1323:VAL:CG1	28:Z4:912:ASP:N	2.03	1.21
3:A6:1369:ILE:HG12	28:Z4:826:TYR:CB	1.70	1.21
9:G1:252:LEU:O	15:M2:602:MET:HG2	1.39	1.21
11:I1:920:PHE:HB2	17:O1:243:LEU:CD2	1.70	1.21
11:I2:874:LEU:N	17:O3:255:GLY:HA3	1.53	1.21
11:I2:895:ARG:NH2	16:N3:386:MET:HG2	1.44	1.21
11:I2:900:ARG:HA	17:O3:232:LYS:CE	1.70	1.21
11:I2:935:GLY:C	17:O3:261:LYS:CE	2.08	1.21
11:I2:980:ILE:HG23	15:M3:621:ARG:CB	1.70	1.21
11:I2:1108:PRO:CG	16:N3:443:GLU:H	1.52	1.21
11:I2:1109:LEU:CB	17:O3:290:TYR:CE2	2.11	1.21
11:I4:1267:LEU:O	26:X3:528:GLU:HG2	1.03	1.21
11:I4:1274:HIS:CE1	26:X3:531:LEU:CG	2.22	1.21
11:I5:1273:GLU:OE2	26:X2:524:SER:CA	1.84	1.21
2:A4:967:GLU:O	6:D3:202:GLN:HB3	1.06	1.21
3:A5:1005:PHE:CE1	11:I5:67:LYS:CE	2.23	1.21
3:A6:1319:ILE:HD13	28:Z4:874:ASN:CB	1.70	1.21
6:D7:179:ASP:OD1	11:I3:49:PRO:HB3	1.38	1.21
11:I1:880:MET:CG	17:O1:250:LEU:HB3	1.63	1.21
11:I1:884:LEU:CG	16:N1:396:ILE:CG2	2.19	1.21
11:I2:882:LYS:HB2	17:O3:245:GLU:O	1.38	1.21
11:I2:939:ASN:HB3	17:O3:265:ASN:OD1	1.41	1.21
11:I2:1020:ALA:CB	16:N3:407:ALA:C	2.13	1.21
11:I2:1039:ALA:HA	20:R3:170:LEU:CD1	1.67	1.21
17:O3:154:ARG:HD2	18:P3:324:LEU:CD1	1.70	1.21
28:Z1:561:GLN:CB	30:b1:236:THR:N	2.02	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:525:LEU:C	30:b4:208:ASN:HD21	1.46	1.21
1:A3:1399:ARG:NH1	2:A4:888:GLN:CA	1.94	1.21
2:A4:865:ALA:CB	6:D3:567:LEU:CD2	2.18	1.21
3:A5:179:TYR:CB	5:C2:744:PHE:CD2	2.17	1.21
3:A6:1393:THR:HG23	28:Z4:904:PHE:O	1.06	1.21
11:I1:797:LEU:HD13	17:O1:245:GLU:CG	1.70	1.21
11:I1:849:LEU:HD13	17:O1:247:TRP:CE3	1.75	1.21
11:I1:952:LEU:O	16:N1:400:LEU:HD23	1.38	1.21
11:I1:955:LYS:HE3	16:N1:397:GLU:C	1.64	1.21
11:I2:896:PRO:HA	17:O3:233:THR:CA	1.70	1.21
11:I2:938:CYS:C	17:O3:261:LYS:O	1.83	1.21
11:I2:955:LYS:HA	16:N3:399:HIS:C	1.63	1.21
11:I2:980:ILE:HD11	20:R3:147:LEU:CA	1.68	1.21
1:A1:1332:ARG:HG3	6:D1:636:ASP:CG	1.65	1.20
2:A4:871:ASN:CB	6:D3:568:ARG:O	1.85	1.20
2:A4:1125:LEU:N	3:A6:136:GLU:HB3	1.53	1.20
3:A5:155:TYR:OH	5:C2:740:ARG:CG	1.87	1.20
3:A5:1392:ARG:CG	28:Z2:866:GLU:O	1.88	1.20
3:A6:1358:LEU:HD23	28:Z4:875:LEU:O	1.41	1.20
9:G1:254:ASN:HD21	17:O2:261:LYS:CD	1.53	1.20
11:I1:874:LEU:CD2	17:O1:252:VAL:HG13	1.69	1.20
11:I1:879:VAL:HG13	17:O1:244:GLU:O	1.37	1.20
11:I1:881:ILE:HD11	17:O1:253:LEU:CD1	1.70	1.20
11:I2:888:GLU:N	16:N3:393:ILE:CG2	2.02	1.20
11:I2:922:ASP:CB	15:M3:589:GLY:O	1.88	1.20
11:I2:990:GLU:HB3	17:O3:272:SER:CA	1.69	1.20
11:I4:1269:ARG:C	26:X3:528:GLU:HB2	1.57	1.20
11:I4:1279:THR:CG2	26:X3:524:SER:H	1.41	1.20
28:Z4:561:GLN:CB	30:b4:236:THR:N	2.02	1.20
1:A1:1204:TRP:CE3	2:A2:734:LEU:CD1	2.24	1.20
2:A2:874:VAL:HB	6:D1:571:SER:OG	1.20	1.20
2:A2:979:GLY:HA2	6:D1:472:PHE:CA	1.69	1.20
1:A3:1021:LEU:HD11	6:D3:819:ASN:ND2	1.52	1.20
2:A4:780:GLU:CD	6:D3:679:ILE:CG1	2.09	1.20
2:A4:1136:LYS:O	3:A6:138:LEU:CD1	1.80	1.20
2:A4:1138:GLU:O	3:A6:130:ILE:CG2	1.87	1.20
3:A5:1369:ILE:CG1	28:Z2:828:LEU:O	1.76	1.20
3:A6:1409:MSE:SE	28:Z4:917:ASP:CA	2.38	1.20
9:G1:258:LYS:CB	17:O2:253:LEU:HD23	1.72	1.20
11:I1:890:TYR:CE1	17:O1:240:GLY:N	1.92	1.20
11:I1:1020:ALA:C	16:N1:405:ALA:O	1.83	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1030:ARG:HG2	20:R1:179:LYS:HE2	1.21	1.20
11:I2:981:VAL:CA	20:R3:147:LEU:CD2	2.20	1.20
11:I5:1279:THR:CG2	26:X2:520:GLU:C	2.15	1.20
28:Z1:526:ARG:HB3	30:b1:206:ASN:CB	1.72	1.20
2:A4:983:LEU:HD12	6:D3:553:PHE:CB	1.65	1.20
2:A4:1155:ASN:N	3:A6:175:GLU:CB	2.05	1.20
3:A6:1309:GLY:C	28:Z4:830:LEU:CB	2.14	1.20
3:A6:1410:ALA:CB	26:X4:742:ALA:O	1.87	1.20
8:F1:1137:GLN:CA	17:O2:248:SER:HB3	1.65	1.20
9:G1:255:LEU:H	15:M2:602:MET:CA	1.55	1.20
11:I1:923:GLY:CA	15:M1:591:ASP:C	2.06	1.20
11:I1:1052:LEU:O	17:O1:286:ILE:HB	1.32	1.20
11:I2:938:CYS:SG	15:M3:606:LEU:CD1	2.30	1.20
11:I2:942:HIS:CB	17:O3:259:ASP:C	2.13	1.20
11:I2:952:LEU:HD23	15:M3:602:MET:CG	1.72	1.20
11:I2:1046:HIS:CB	17:O3:280:GLU:O	1.86	1.20
28:Z2:525:LEU:C	30:b2:208:ASN:HD21	1.46	1.20
28:Z3:401:THR:C	30:b3:254:SER:CB	2.08	1.20
28:Z3:525:LEU:C	30:b3:208:ASN:HD21	1.46	1.20
2:A2:874:VAL:CG2	6:D1:571:SER:CB	2.19	1.20
2:A2:970:PHE:CD1	6:D1:196:ILE:CD1	2.25	1.20
2:A4:867:GLU:CD	6:D3:605:THR:CB	2.14	1.20
2:A4:975:GLU:C	6:D3:496:LEU:CA	2.13	1.20
3:A6:1337:ALA:O	28:Z4:960:CYS:CB	1.88	1.20
11:I1:919:ALA:CB	16:N1:389:PHE:CA	2.16	1.20
11:I1:985:ARG:N	15:M1:613:ASP:HA	1.33	1.20
11:I1:1037:THR:CA	15:M1:624:ASN:ND2	2.04	1.20
11:I2:1034:ASP:OD2	15:M3:630:LEU:CB	1.89	1.20
28:Z1:528:ILE:HG13	30:b1:210:ARG:NH1	1.37	1.20
28:Z2:557:CYS:CB	30:b2:210:ARG:HH11	1.48	1.20
28:Z3:526:ARG:HB3	30:b3:206:ASN:CB	1.72	1.20
1:A1:874:VAL:HB	6:D3:276:GLY:O	1.37	1.20
1:A3:1098:ARG:HD2	11:I2:1414:CYS:CB	1.71	1.20
2:A4:235:TYR:CE1	4:B4:347:LEU:HB2	1.77	1.20
2:A4:874:VAL:HG23	6:D3:568:ARG:O	1.39	1.20
2:A4:879:LEU:N	6:D3:567:LEU:HD12	1.53	1.20
2:A4:975:GLU:CA	6:D3:499:LEU:CB	2.19	1.20
3:A5:1026:PRO:O	11:I5:67:LYS:HA	1.42	1.20
3:A5:1026:PRO:HD2	11:I5:66:LEU:CD2	1.70	1.20
3:A5:1369:ILE:HD11	28:Z2:833:ASP:H	1.07	1.20
8:F1:1137:GLN:CB	17:O2:244:GLU:O	1.88	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1265:GLN:OE1	17:O2:258:GLU:O	1.60	1.20
11:I1:846:ILE:CD1	15:M1:594:LYS:CE	1.99	1.20
11:I1:924:ILE:CD1	15:M1:595:MET:CG	2.14	1.20
11:I1:939:ASN:O	17:O1:265:ASN:HB2	1.41	1.20
11:I1:966:TRP:CE2	20:R1:165:SER:O	1.95	1.20
11:I1:1021:ILE:HG23	16:N1:406:HIS:CE1	1.76	1.20
11:I1:1604:ALA:CA	11:I2:1739:GLU:O	1.88	1.20
11:I2:840:LEU:HD22	17:O3:247:TRP:CG	1.77	1.20
11:I2:976:ARG:CB	20:R3:149:ARG:H	1.54	1.20
11:I2:980:ILE:CD1	15:M3:622:VAL:HG23	1.69	1.20
1:A1:868:GLN:HA	6:D3:280:GLN:CG	1.72	1.19
1:A1:1223:GLU:OE1	2:A2:761:GLN:CD	1.84	1.19
2:A2:970:PHE:CG	6:D1:498:GLU:OE1	1.94	1.19
2:A2:1094:ILE:HG12	6:D2:759:GLN:OE1	1.41	1.19
2:A2:1136:LYS:HG2	3:A5:134:VAL:O	1.37	1.19
3:A6:234:LEU:HG	5:C4:737:LYS:O	1.39	1.19
9:G1:250:THR:O	15:M2:605:THR:CB	1.88	1.19
11:I1:956:ILE:CG2	20:R1:166:LEU:HB2	1.71	1.19
11:I1:1021:ILE:HG13	16:N1:410:MET:CB	1.71	1.19
11:I3:1278:ALA:C	26:X1:520:GLU:HA	1.68	1.19
11:I5:1273:GLU:O	26:X2:524:SER:OG	1.55	1.19
28:Z2:524:VAL:CA	30:b2:236:THR:HG22	1.72	1.19
3:A6:1351:MSE:SE	28:Z4:919:PHE:CB	2.41	1.19
11:I1:1018:LYS:HE3	16:N1:413:VAL:C	1.42	1.19
11:I1:1029:LEU:CG	20:R1:171:ALA:HA	1.48	1.19
11:I2:900:ARG:CA	17:O3:232:LYS:CG	2.19	1.19
11:I2:935:GLY:O	17:O3:261:LYS:CE	1.90	1.19
11:I2:957:SER:CA	20:R3:167:GLN:O	1.89	1.19
2:A4:780:GLU:N	6:D3:677:GLN:C	2.00	1.19
2:A4:875:LEU:CD1	6:D3:567:LEU:CD2	1.79	1.19
2:A4:1135:ARG:NH2	3:A6:167:TRP:HZ3	1.32	1.19
2:A4:1159:ASP:N	4:B6:342:ARG:N	1.89	1.19
3:A5:1098:ARG:CD	11:I5:29:GLN:CG	2.21	1.19
3:A5:1151:THR:HA	5:C5:733:LEU:CD1	1.72	1.19
3:A6:232:LEU:HA	5:C4:738:ASP:HB2	1.24	1.19
11:I1:966:TRP:CZ3	20:R1:167:GLN:HG2	1.77	1.19
11:I2:884:LEU:CD1	16:N3:400:LEU:CD1	1.82	1.19
11:I2:886:LEU:HD12	17:O3:245:GLU:CB	1.65	1.19
11:I2:900:ARG:HA	17:O3:232:LYS:CG	1.71	1.19
11:I2:920:PHE:O	15:M3:595:MET:HB3	1.42	1.19
11:I2:995:SER:CA	17:O3:267:ALA:HB3	1.72	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1031:ALA:CA	20:R3:173:LEU:HA	1.73	1.19
11:I2:1106:LYS:CA	16:N3:439:ARG:NH1	1.97	1.19
28:Z3:557:CYS:CB	30:b3:210:ARG:HH11	1.48	1.19
1:A1:873:PRO:CB	6:D3:218:LYS:HZ3	1.53	1.19
2:A2:980:ARG:CG	6:D1:473:GLU:HG2	1.73	1.19
2:A4:824:ASN:OD1	2:A4:859:GLN:CD	1.86	1.19
2:A4:986:THR:HB	6:D3:504:LYS:CD	1.66	1.19
2:A4:1129:PRO:O	3:A6:142:GLU:HB2	1.42	1.19
2:A4:1155:ASN:N	3:A6:175:GLU:HB2	1.55	1.19
3:A6:1369:ILE:CG1	28:Z4:826:TYR:HA	1.73	1.19
8:F1:1261:TYR:CD1	17:O2:263:GLN:CB	2.13	1.19
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CB	1.60	1.19
11:I2:951:LYS:HG2	16:N3:404:GLU:CG	1.68	1.19
11:I2:1054:ILE:N	17:O3:282:LYS:N	1.86	1.19
17:O3:151:LEU:CD2	18:P3:325:ILE:CB	2.09	1.19
1:A1:874:VAL:CG2	6:D3:272:VAL:HG12	1.71	1.19
1:A1:1091:VAL:HG12	6:D1:804:SER:OG	1.01	1.19
2:A2:975:GLU:H	6:D1:499:LEU:CG	1.47	1.19
2:A4:970:PHE:CA	6:D3:202:GLN:CG	2.20	1.19
3:A5:222:ALA:CB	5:C2:739:MET:HA	1.72	1.19
3:A5:1027:HIS:CG	11:I5:65:LYS:C	2.18	1.19
3:A6:1354:TRP:O	28:Z4:877:ILE:HA	1.43	1.19
3:A6:1368:GLN:HA	28:Z4:848:SER:CB	1.72	1.19
3:A6:1412:MSE:HE3	28:Z4:965:TYR:CB	1.68	1.19
8:F1:1094:GLY:CA	17:O2:237:PRO:HA	1.70	1.19
11:I1:883:ALA:CB	17:O1:243:LEU:C	2.14	1.19
11:I1:980:ILE:HB	15:M1:618:GLN:C	1.68	1.19
11:I1:1021:ILE:N	16:N1:409:ALA:HB3	1.55	1.19
11:I2:874:LEU:CA	17:O3:255:GLY:CA	2.13	1.19
11:I2:896:PRO:CA	17:O3:233:THR:CA	2.21	1.19
11:I2:947:LEU:HD22	17:O3:256:TYR:OH	1.02	1.19
11:I2:980:ILE:O	15:M3:618:GLN:HG3	1.38	1.19
2:A2:235:TYR:CE1	4:B2:347:LEU:HB2	1.77	1.18
2:A2:827:ILE:CA	2:A2:860:GLU:HA	1.63	1.18
2:A2:975:GLU:N	6:D1:499:LEU:HG	1.35	1.18
2:A2:1142:PHE:CD1	3:A5:128:HIS:O	1.95	1.18
1:A3:1224:PRO:HB2	2:A4:727:ASN:C	1.65	1.18
2:A4:860:GLU:CG	6:D3:606:LYS:CB	2.15	1.18
2:A4:1129:PRO:HB3	3:A6:142:GLU:CG	1.63	1.18
3:A5:1388:ALA:O	28:Z2:867:LYS:CA	1.80	1.18
3:A5:1395:LYS:N	28:Z2:870:ILE:O	1.74	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:263:MET:CA	16:N2:411:GLN:HB2	1.72	1.18
11:I1:898:VAL:CB	17:O1:235:ASN:O	1.91	1.18
11:I1:918:SER:CB	16:N1:389:PHE:CG	1.83	1.18
11:I1:976:ARG:HB3	20:R1:149:ARG:CB	1.72	1.18
11:I1:1070:LEU:N	16:N1:429:GLU:CG	2.05	1.18
11:I2:1108:PRO:HG3	16:N3:443:GLU:N	1.13	1.18
28:Z1:524:VAL:CA	30:b1:236:THR:HG22	1.72	1.18
28:Z2:522:ASN:N	30:b2:241:PRO:HG3	1.53	1.18
28:Z2:526:ARG:HB3	30:b2:206:ASN:CB	1.72	1.18
28:Z3:524:VAL:CA	30:b3:236:THR:HG22	1.72	1.18
28:Z3:555:LYS:HE2	30:b3:216:LEU:HD22	1.24	1.18
2:A2:824:ASN:OD1	2:A2:859:GLN:CD	1.86	1.18
2:A2:1157:TYR:HD2	3:A5:174:PRO:C	1.52	1.18
2:A4:1134:GLU:CA	3:A6:145:THR:OG1	1.90	1.18
3:A6:1316:VAL:CG1	28:Z4:870:ILE:C	2.10	1.18
3:A6:1323:VAL:HG13	28:Z4:912:ASP:CA	1.72	1.18
11:I1:923:GLY:HA3	15:M1:592:LEU:N	1.08	1.18
11:I1:951:LYS:HG3	16:N1:400:LEU:O	1.44	1.18
11:I1:1037:THR:CG2	20:R1:169:GLY:HA2	1.60	1.18
11:I2:980:ILE:HD11	20:R3:147:LEU:CB	1.74	1.18
11:I2:1046:HIS:HB3	17:O3:280:GLU:C	1.69	1.18
17:O3:102:LYS:HG2	18:P3:322:LYS:HE3	1.25	1.18
21:S1:176:MET:HE2	21:S1:212:LEU:HD11	1.20	1.18
28:Z4:526:ARG:HB3	30:b4:206:ASN:CB	1.72	1.18
1:A1:1204:TRP:CD1	2:A2:731:ILE:CG1	2.20	1.18
1:A1:1204:TRP:NE1	2:A2:645:PHE:CE1	2.09	1.18
2:A2:870:HIS:CE1	6:D1:566:PHE:CD1	2.31	1.18
2:A2:986:THR:CG2	6:D1:504:LYS:CD	2.00	1.18
2:A4:880:ALA:CB	6:D3:562:GLY:O	1.91	1.18
3:A5:996:ASN:OD1	11:I5:57:GLU:N	1.72	1.18
3:A6:1151:THR:HA	5:C6:733:LEU:CD1	1.72	1.18
3:A6:1413:SER:H	28:Z4:964:LEU:CB	1.46	1.18
11:I1:880:MET:CB	17:O1:250:LEU:HB2	1.72	1.18
11:I1:894:VAL:HG23	17:O1:238:ALA:HB3	1.25	1.18
11:I1:976:ARG:N	20:R1:149:ARG:CG	2.07	1.18
11:I2:881:ILE:CG2	17:O3:249:ARG:HG2	1.74	1.18
11:I2:896:PRO:CB	17:O3:233:THR:HA	1.73	1.18
11:I2:898:VAL:CG2	17:O3:236:ASP:HA	1.73	1.18
11:I2:947:LEU:HD12	17:O3:260:LEU:CD2	1.72	1.18
11:I2:1030:ARG:C	20:R3:173:LEU:O	1.84	1.18
11:I2:1054:ILE:HA	17:O3:280:GLU:N	1.13	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:563:GLU:OE2	30:b1:302:ASN:O	1.61	1.18
28:Z2:524:VAL:N	30:b2:238:ASN:HB2	1.26	1.18
2:A2:874:VAL:CG2	6:D1:571:SER:OG	1.92	1.18
1:A3:835:THR:HG21	6:D1:302:PRO:CG	1.71	1.18
2:A4:781:ARG:NH2	6:D3:633:LYS:CE	2.06	1.18
2:A4:975:GLU:CB	6:D3:501:LEU:CD1	2.19	1.18
2:A4:982:THR:HG22	6:D3:493:ALA:O	1.21	1.18
3:A6:1414:PHE:N	28:Z4:963:LYS:C	2.00	1.18
11:I1:877:ILE:CG2	17:O1:253:LEU:HB2	1.71	1.18
11:I1:883:ALA:HB2	17:O1:243:LEU:O	1.36	1.18
11:I1:914:ASN:HB2	15:M1:588:MET:N	1.23	1.18
11:I1:1052:LEU:HB2	16:N1:438:LEU:CG	1.42	1.18
11:I2:891:LEU:HD12	16:N3:393:ILE:CD1	1.60	1.18
11:I2:895:ARG:CZ	16:N3:386:MET:SD	2.32	1.18
11:I2:896:PRO:HA	17:O3:233:THR:N	1.59	1.18
11:I2:990:GLU:O	17:O3:271:GLU:HG2	1.44	1.18
11:I2:1067:PHE:N	16:N3:430:ARG:HG2	1.56	1.18
11:I3:1271:GLU:C	26:X1:525:ILE:HG22	1.63	1.18
17:O3:147:ALA:HB1	18:P3:328:PRO:CG	1.73	1.18
28:Z4:528:ILE:O	30:b4:184:SER:CB	1.82	1.18
2:A2:977:VAL:CA	6:D1:496:LEU:HD12	1.52	1.18
2:A2:1151:THR:CA	5:C2:733:LEU:HA	1.67	1.18
1:A3:1201:ARG:CB	2:A4:735:ALA:H	1.57	1.18
2:A4:976:LEU:CD1	6:D3:472:PHE:CE2	2.25	1.18
2:A4:982:THR:CG2	6:D3:496:LEU:CA	2.08	1.18
2:A4:1160:GLN:OE1	3:A6:178:GLY:CA	1.90	1.18
3:A5:1026:PRO:CB	11:I5:73:TYR:CE1	2.27	1.18
11:I1:957:SER:O	20:R1:168:LEU:CD2	1.92	1.18
11:I1:1018:LYS:HE3	16:N1:413:VAL:O	1.41	1.18
11:I1:1113:LEU:HB2	16:N1:435:ALA:CB	1.74	1.18
11:I1:1667:GLN:O	11:I2:1665:LEU:HD23	1.40	1.18
11:I2:890:TYR:CB	17:O3:242:ARG:HB2	1.73	1.18
11:I2:900:ARG:N	17:O3:232:LYS:CG	2.06	1.18
11:I2:931:VAL:HB	15:M3:600:ASN:O	1.38	1.18
11:I2:931:VAL:C	15:M3:605:THR:HG23	1.48	1.18
11:I2:959:SER:N	20:R3:166:LEU:HD11	0.89	1.18
11:I2:966:TRP:O	20:R3:150:ASN:CA	1.91	1.18
11:I3:1277:LEU:N	26:X1:522:MET:HB2	1.59	1.18
28:Z1:531:LYS:HD3	30:b1:183:LEU:CA	1.72	1.18
28:Z2:524:VAL:CG1	30:b2:236:THR:CB	2.12	1.18
2:A2:1131:ILE:HG13	3:A5:137:HIS:CG	1.78	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:HE22	2:A4:726:ALA:CB	1.57	1.17
3:A5:994:VAL:N	11:I5:57:GLU:HG2	1.57	1.17
11:I1:846:ILE:HG22	17:O1:247:TRP:CE2	1.78	1.17
11:I1:853:ILE:CG2	17:O1:254:ARG:HD3	1.63	1.17
11:I1:928:LEU:CD2	20:R1:154:ALA:O	1.91	1.17
11:I1:939:ASN:O	17:O1:262:ASP:C	1.87	1.17
11:I1:947:LEU:HD13	17:O1:256:TYR:CZ	1.77	1.17
11:I1:955:LYS:HB3	16:N1:396:ILE:O	1.44	1.17
11:I1:1021:ILE:HA	16:N1:406:HIS:ND1	1.55	1.17
11:I2:833:PHE:C	17:O3:241:SER:HB2	1.68	1.17
11:I2:947:LEU:CG	16:N3:407:ALA:O	1.90	1.17
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CD	1.57	1.17
11:I3:1267:LEU:CD2	26:X1:529:TRP:CZ3	2.26	1.17
28:Z2:531:LYS:HD3	30:b2:183:LEU:CA	1.72	1.17
1:A1:1221:ILE:CG2	2:A2:645:PHE:H	1.55	1.17
2:A2:872:ALA:CB	6:D1:565:MET:HA	1.69	1.17
2:A2:970:PHE:CD1	6:D1:192:TYR:CE1	2.31	1.17
2:A2:980:ARG:CZ	6:D1:525:ARG:CA	2.21	1.17
3:A5:1098:ARG:HD2	11:I5:29:GLN:NE2	1.60	1.17
3:A5:1367:THR:O	28:Z2:825:TYR:C	1.87	1.17
3:A5:1395:LYS:HB3	28:Z2:873:LEU:CB	1.62	1.17
3:A6:1413:SER:C	28:Z4:963:LYS:CB	2.17	1.17
8:F1:158:PRO:CG	11:I1:1207:PRO:CD	2.08	1.17
11:I1:1037:THR:CG2	20:R1:173:LEU:CG	2.23	1.17
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD2	1.63	1.17
11:I2:1043:LEU:CD1	16:N3:433:GLU:HB3	1.73	1.17
11:I4:1277:LEU:CD1	26:X3:521:TRP:CG	2.27	1.17
17:O3:101:ASN:OD1	18:P3:322:LYS:HG2	1.42	1.17
28:Z2:535:ILE:HG12	30:b2:182:PRO:CB	1.74	1.17
2:A2:1135:ARG:HD3	3:A5:157:TRP:C	1.68	1.17
2:A2:1143:LEU:CB	3:A5:131:PRO:HA	1.73	1.17
1:A3:1223:GLU:CB	2:A4:676:LEU:HD11	1.73	1.17
2:A4:965:LYS:HE2	6:D3:196:ILE:O	1.45	1.17
2:A4:975:GLU:O	6:D3:496:LEU:O	1.61	1.17
3:A5:1030:THR:N	11:I5:71:GLU:O	1.76	1.17
3:A5:1312:ARG:CD	28:Z2:832:PHE:CA	2.10	1.17
3:A5:1392:ARG:HH11	28:Z2:867:LYS:N	1.41	1.17
3:A6:164:LEU:N	5:C4:743:LEU:CG	1.87	1.17
3:A6:222:ALA:HB1	5:C4:739:MET:SD	1.82	1.17
8:F1:1205:TRP:HE1	17:O2:251:ILE:CG2	1.55	1.17
11:I1:841:PHE:CD1	17:O1:243:LEU:HD11	1.80	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:945:LEU:CD2	17:O1:258:GLU:HB2	1.75	1.17
11:I1:1015:TYR:CD2	16:N1:412:ASN:ND2	2.09	1.17
11:I1:1739:GLU:N	11:I2:1607:GLN:OE1	1.77	1.17
11:I2:1052:LEU:CD2	16:N3:434:LEU:HD11	1.75	1.17
11:I4:1279:THR:CB	26:X3:523:LEU:HB2	1.74	1.17
11:I5:1279:THR:OG1	26:X2:520:GLU:CA	1.92	1.17
28:Z1:534:ASP:HA	30:b1:164:CYS:HB2	1.21	1.17
1:A3:1017:THR:HG22	6:D3:819:ASN:CB	1.74	1.17
2:A4:864:ARG:CB	6:D3:607:PRO:CD	2.17	1.17
2:A4:865:ALA:HA	6:D3:567:LEU:HD22	1.25	1.17
2:A4:1163:TYR:CZ	3:A6:137:HIS:CE1	2.33	1.17
8:F1:1137:GLN:CD	17:O2:249:ARG:N	2.00	1.17
11:I1:837:MET:CE	17:O1:243:LEU:H	1.58	1.17
11:I1:882:LYS:CB	17:O1:245:GLU:HB3	1.73	1.17
11:I1:987:GLY:H	15:M1:613:ASP:N	1.31	1.17
11:I1:1055:GLU:CB	17:O1:280:GLU:HB2	1.74	1.17
11:I2:894:VAL:H	17:O3:239:GLN:HG2	1.00	1.17
11:I2:1017:VAL:CG2	17:O3:260:LEU:HD11	1.75	1.17
11:I2:1054:ILE:O	17:O3:281:ALA:CB	1.92	1.17
11:I2:1064:LYS:O	17:O3:274:GLY:HA2	0.99	1.17
11:I4:1277:LEU:HD21	26:X3:511:TYR:CE2	1.77	1.17
18:P1:276:SER:CB	18:P4:322:LYS:HE3	1.65	1.17
21:S2:176:MET:HE2	21:S2:212:LEU:HD11	1.20	1.17
28:Z2:534:ASP:HA	30:b2:164:CYS:HB2	1.21	1.17
28:Z4:524:VAL:CA	30:b4:236:THR:HG22	1.72	1.17
28:Z4:531:LYS:HD3	30:b4:183:LEU:CA	1.72	1.17
2:A2:780:GLU:H	6:D1:678:GLY:CA	1.58	1.17
2:A2:1151:THR:HG22	3:A5:171:HIS:NE2	1.53	1.17
1:A3:1017:THR:CG2	6:D3:819:ASN:HB3	1.75	1.17
1:A3:1052:THR:HG23	6:D3:816:VAL:HG23	1.24	1.17
2:A4:976:LEU:N	6:D3:496:LEU:HA	1.37	1.17
3:A5:177:ILE:HD11	5:C2:740:ARG:NE	1.59	1.17
3:A5:1098:ARG:CZ	11:I5:29:GLN:CG	2.10	1.17
3:A6:166:LEU:CD1	5:C4:741:THR:O	1.93	1.17
11:I1:846:ILE:C	15:M1:594:LYS:HD2	1.63	1.17
11:I1:880:MET:CE	17:O1:247:TRP:CE3	2.26	1.17
11:I1:881:ILE:H	17:O1:249:ARG:C	1.53	1.17
11:I1:922:ASP:O	15:M1:593:ALA:CB	1.93	1.17
11:I1:983:LEU:HD11	15:M1:604:ASN:CG	1.40	1.17
11:I1:984:GLU:C	15:M1:613:ASP:HA	1.69	1.17
11:I1:1021:ILE:CD1	16:N1:410:MET:CA	2.22	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1029:LEU:HB3	20:R1:174:ARG:CB	1.74	1.17
11:I1:1110:SER:OG	16:N1:437:VAL:HB	1.44	1.17
11:I1:1114:VAL:N	16:N1:435:ALA:HB1	1.59	1.17
11:I2:946:THR:N	17:O3:260:LEU:H	1.43	1.17
11:I2:951:LYS:HB3	17:O3:253:LEU:CD2	1.75	1.17
11:I2:1051:LYS:HB3	17:O3:288:GLU:N	1.42	1.17
28:Z1:402:GLY:HA2	30:b1:273:LYS:HB2	1.24	1.17
28:Z2:535:ILE:HG13	30:b2:182:PRO:CB	1.75	1.17
28:Z3:531:LYS:HD3	30:b3:183:LEU:CA	1.72	1.17
1:A1:1399:ARG:NH2	2:A2:885:LEU:C	2.02	1.16
2:A2:975:GLU:N	6:D1:499:LEU:CG	2.00	1.16
2:A2:1133:GLU:OE1	3:A5:138:LEU:O	1.64	1.16
2:A2:1151:THR:CA	5:C2:733:LEU:HD12	1.74	1.16
2:A4:781:ARG:NH2	6:D3:633:LYS:CD	2.06	1.16
2:A4:864:ARG:NH2	6:D3:610:ASN:CG	2.02	1.16
3:A6:166:LEU:HD12	5:C4:741:THR:O	1.43	1.16
3:A6:1401:VAL:CG1	28:Z4:919:PHE:HA	1.73	1.16
3:A6:1416:ARG:HG2	28:Z4:966:CYS:O	1.44	1.16
11:I1:950:LEU:CB	16:N1:407:ALA:HB2	1.68	1.16
11:I1:1108:PRO:HB2	16:N1:443:GLU:H	1.09	1.16
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CD	1.55	1.16
11:I1:1611:PHE:CE2	11:I2:1669:ARG:CZ	2.28	1.16
11:I1:1664:PHE:CE2	11:I2:1669:ARG:N	2.08	1.16
11:I2:957:SER:HA	20:R3:167:GLN:C	1.69	1.16
28:Z3:541:PRO:HD2	30:b3:180:GLY:HA3	1.21	1.16
2:A2:867:GLU:CG	6:D1:593:ARG:HH21	1.58	1.16
2:A4:870:HIS:HB2	6:D3:566:PHE:CE1	1.80	1.16
2:A4:988:ARG:HH22	6:D3:499:LEU:CA	1.56	1.16
2:A4:1055:ARG:HD2	6:D4:762:ARG:HB3	1.26	1.16
2:A4:1151:THR:CA	5:C4:733:LEU:HD12	1.73	1.16
3:A5:1098:ARG:CD	11:I5:29:GLN:HE21	1.58	1.16
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CB	1.76	1.16
3:A6:1358:LEU:HG	28:Z4:878:HIS:N	1.45	1.16
6:D7:531:LEU:CA	11:I3:181:GLN:HB3	1.74	1.16
11:I1:949:CYS:O	16:N1:403:VAL:CG1	1.92	1.16
11:I2:947:LEU:HG	16:N3:407:ALA:O	1.02	1.16
11:I5:1279:THR:CG2	26:X2:520:GLU:CB	2.13	1.16
18:P2:319:VAL:HG23	18:P3:278:ASN:CG	1.70	1.16
27:Y4:41:ASP:CA	29:a4:231[B]:HIS:NE2	2.08	1.16
2:A2:1155:ASN:CA	3:A5:175:GLU:CG	2.22	1.16
2:A2:1159:ASP:H	3:A5:175:GLU:CB	1.58	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:870:HIS:ND1	6:D3:566:PHE:CD1	2.14	1.16
3:A5:166:LEU:HB3	5:C2:741:THR:O	1.04	1.16
3:A5:222:ALA:CB	5:C2:738:ASP:O	1.94	1.16
3:A5:222:ALA:C	5:C2:738:ASP:O	1.73	1.16
3:A5:233:THR:CG2	5:C2:737:LYS:CD	2.22	1.16
3:A6:1393:THR:CG2	28:Z4:904:PHE:O	1.94	1.16
11:I1:956:ILE:HG22	20:R1:166:LEU:HB2	1.16	1.16
11:I1:1038:ILE:CD1	15:M1:620:VAL:CG1	2.03	1.16
11:I1:1607:GLN:HE21	11:I2:1736:LEU:HD12	1.11	1.16
11:I2:797:LEU:HD13	17:O3:245:GLU:CA	1.75	1.16
11:I2:942:HIS:HB2	17:O3:259:ASP:CA	1.66	1.16
11:I3:815:ILE:HG23	26:X1:497:ARG:H	1.06	1.16
28:Z4:522:ASN:N	30:b4:241:PRO:CG	2.02	1.16
1:A1:1222:ALA:HB2	2:A2:615:LEU:HD12	1.18	1.16
1:A1:1224:PRO:HA	2:A2:723:PHE:O	1.44	1.16
3:A5:1369:ILE:HG13	28:Z2:828:LEU:O	1.38	1.16
8:F1:1094:GLY:HA3	17:O2:237:PRO:CA	1.73	1.16
9:G1:255:LEU:HD12	17:O2:257:ALA:HB3	1.19	1.16
11:I1:923:GLY:H	15:M1:592:LEU:HB3	1.11	1.16
11:I1:1056:PRO:O	17:O1:277:GLU:O	1.62	1.16
11:I1:1114:VAL:N	16:N1:435:ALA:CB	2.08	1.16
11:I2:884:LEU:O	16:N3:397:GLU:CG	1.92	1.16
11:I2:953:LEU:CD1	15:M3:606:LEU:HB3	1.75	1.16
11:I2:984:GLU:HB2	15:M3:618:GLN:NE2	1.60	1.16
11:I2:1039:ALA:C	20:R3:170:LEU:CD2	2.19	1.16
11:I3:1270:LYS:HE2	26:X1:530:ARG:CG	1.70	1.16
28:Z2:563:GLU:OE2	30:b2:302:ASN:O	1.61	1.16
28:Z3:534:ASP:HA	30:b3:164:CYS:HB2	1.21	1.16
28:Z3:535:ILE:HG12	30:b3:182:PRO:CB	1.74	1.16
2:A2:227:SER:HB2	6:D1:711:PHE:CD2	1.79	1.16
2:A2:876:ARG:CD	6:D1:558:LYS:HG2	1.74	1.16
1:A3:1099:GLN:NE2	11:I2:1415:SER:C	2.04	1.16
2:A4:867:GLU:OE1	6:D3:593:ARG:NH2	1.79	1.16
2:A4:876:ARG:HG2	6:D3:563:GLU:O	1.01	1.16
2:A4:908:LEU:HD23	6:D3:601:PHE:HB3	1.22	1.16
2:A4:978:ASP:CB	6:D3:476:VAL:HG22	1.75	1.16
2:A4:985:ALA:CA	6:D3:500:LYS:H	1.59	1.16
2:A4:1133:GLU:N	3:A6:145:THR:HG23	0.83	1.16
8:F2:1091:SER:H	17:O4:245:GLU:N	1.22	1.16
11:I1:927:HIS:O	15:M1:597:LYS:CA	1.74	1.16
11:I1:951:LYS:CG	16:N1:400:LEU:O	1.94	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1021:ILE:CD1	16:N1:410:MET:HA	1.74	1.16
11:I1:1669:ARG:CA	11:I2:1664:PHE:CZ	2.29	1.16
11:I2:917:TYR:O	15:M3:588:MET:CG	1.93	1.16
11:I2:976:ARG:NH2	20:R3:143:PHE:O	1.76	1.16
11:I2:1064:LYS:O	17:O3:274:GLY:CA	1.92	1.16
11:I3:816:ASP:HA	26:X1:498:SER:HB3	1.21	1.16
28:Z1:524:VAL:N	30:b1:238:ASN:HB2	1.26	1.16
28:Z2:410:ASN:CA	30:b2:251:ILE:CD1	2.15	1.16
2:A2:780:GLU:HG2	6:D1:678:GLY:C	1.23	1.15
2:A4:1053:ARG:O	6:D4:762:ARG:HG2	1.46	1.15
3:A5:207:LEU:CD1	5:C2:742:ASP:OD1	1.76	1.15
3:A5:222:ALA:N	5:C2:738:ASP:O	1.79	1.15
3:A5:1398:LYS:CB	28:Z2:873:LEU:O	1.94	1.15
3:A6:189:VAL:HG22	5:C4:745:SER:HB3	1.22	1.15
3:A6:1410:ALA:C	26:X4:742:ALA:O	1.89	1.15
8:F1:1138:TRP:CB	17:O2:244:GLU:CB	1.95	1.15
11:I1:922:ASP:H	15:M1:592:LEU:CG	1.43	1.15
11:I1:966:TRP:N	20:R1:165:SER:OG	1.78	1.15
11:I1:1043:LEU:HB3	16:N1:430:ARG:O	1.46	1.15
11:I1:1107:SER:OG	16:N1:436:ALA:O	1.63	1.15
11:I2:951:LYS:HE3	16:N3:400:LEU:O	0.98	1.15
11:I2:966:TRP:CZ3	20:R3:167:GLN:CD	2.10	1.15
11:I2:978:LYS:O	15:M3:621:ARG:NH1	1.79	1.15
11:I2:1106:LYS:O	16:N3:440:GLU:CA	1.83	1.15
27:Y3:41:ASP:CA	29:a3:231[B]:HIS:NE2	2.09	1.15
28:Z4:563:GLU:OE2	30:b4:302:ASN:O	1.61	1.15
2:A2:779:ASP:H	6:D1:678:GLY:HA2	1.00	1.15
2:A2:1094:ILE:HG12	6:D2:759:GLN:CD	1.71	1.15
2:A2:1142:PHE:CE1	3:A5:128:HIS:O	1.99	1.15
2:A4:782:VAL:HG23	6:D3:676:ALA:O	1.39	1.15
2:A4:973:GLU:CA	6:D3:205:LEU:HB3	1.61	1.15
2:A4:975:GLU:CB	6:D3:501:LEU:CG	2.14	1.15
2:A4:983:LEU:HD12	6:D3:553:PHE:HB3	1.20	1.15
3:A5:164:LEU:CD1	5:C2:743:LEU:O	1.84	1.15
3:A6:155:TYR:CD1	5:C4:739:MET:HE3	1.81	1.15
3:A6:163:SER:C	5:C4:743:LEU:CG	2.16	1.15
3:A6:1311:ARG:N	28:Z4:830:LEU:CB	2.09	1.15
3:A6:1316:VAL:HG22	28:Z4:871:HIS:CA	1.73	1.15
3:A6:1319:ILE:CD1	28:Z4:874:ASN:CB	2.24	1.15
3:A6:1335:ALA:N	28:Z4:962:LYS:CB	1.96	1.15
3:A6:1351:MSE:N	28:Z4:917:ASP:CB	2.09	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1369:ILE:CG1	28:Z4:826:TYR:CB	2.23	1.15
8:F1:1138:TRP:HB3	17:O2:244:GLU:HB3	1.25	1.15
8:F1:1265:GLN:C	17:O2:265:ASN:HB2	1.72	1.15
11:I1:841:PHE:CZ	17:O1:243:LEU:CD1	2.28	1.15
11:I1:955:LYS:CE	16:N1:397:GLU:O	1.93	1.15
11:I1:1665:LEU:HD12	11:I2:1667:GLN:HE21	1.09	1.15
11:I2:947:LEU:CD2	17:O3:256:TYR:OH	1.94	1.15
11:I2:1042:LEU:O	16:N3:430:ARG:NH2	1.78	1.15
11:I2:1045:PHE:C	15:M3:619:ILE:HD12	1.69	1.15
11:I2:1049:LEU:O	17:O3:288:GLU:CA	1.93	1.15
11:I2:1108:PRO:CG	16:N3:443:GLU:N	2.09	1.15
17:O3:102:LYS:HB3	18:P3:322:LYS:CE	1.73	1.15
27:Y1:41:ASP:C	29:a1:231[B]:HIS:NE2	2.04	1.15
28:Z3:558:LEU:HA	30:b3:236:THR:N	1.56	1.15
28:Z4:557:CYS:CB	30:b4:210:ARG:HH11	1.48	1.15
1:A1:868:GLN:CA	6:D3:280:GLN:HG2	1.49	1.15
2:A2:979:GLY:CA	6:D1:472:PHE:CA	2.25	1.15
2:A2:1122:LEU:O	3:A5:136:GLU:HG3	1.45	1.15
2:A2:1151:THR:CG2	5:C2:734:VAL:N	2.04	1.15
2:A2:1156:ASP:CG	3:A5:168:ASP:HB3	1.71	1.15
3:A5:994:VAL:O	11:I5:61:LYS:HD3	1.45	1.15
3:A5:1098:ARG:NE	11:I5:29:GLN:HG2	0.84	1.15
4:B6:345:LYS:CA	5:C4:737:LYS:HE3	1.75	1.15
8:F1:1137:GLN:CA	17:O2:248:SER:CB	2.05	1.15
9:G1:252:LEU:O	15:M2:602:MET:CG	1.94	1.15
9:G1:253:SER:OG	15:M2:601:ASP:CB	1.92	1.15
9:G1:254:ASN:CG	15:M2:605:THR:CB	2.14	1.15
11:I1:953:LEU:H	16:N1:403:VAL:CG1	1.59	1.15
11:I1:1540:LYS:CE	11:I2:1739:GLU:HB3	1.76	1.15
11:I2:954:GLU:HB3	16:N3:403:VAL:CA	1.75	1.15
11:I2:966:TRP:C	20:R3:153:GLN:HB3	1.71	1.15
11:I2:1031:ALA:N	20:R3:173:LEU:C	2.02	1.15
11:I2:1055:GLU:O	17:O3:278:GLU:CA	1.92	1.15
27:Y1:41:ASP:CA	29:a1:231[B]:HIS:NE2	2.08	1.15
27:Y4:41:ASP:C	29:a4:231[B]:HIS:NE2	2.04	1.15
28:Z1:523:ASP:CB	30:b1:238:ASN:HA	1.12	1.15
28:Z2:410:ASN:C	30:b2:251:ILE:CD1	2.20	1.15
28:Z3:535:ILE:HG13	30:b3:182:PRO:CB	1.75	1.15
28:Z3:563:GLU:OE2	30:b3:302:ASN:O	1.61	1.15
28:Z4:535:ILE:HG12	30:b4:182:PRO:CB	1.74	1.15
1:A1:834:GLU:CB	6:D3:302:PRO:HG3	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:873:PRO:O	6:D1:563:GLU:OE1	1.64	1.15
2:A2:979:GLY:CA	6:D1:472:PHE:HB2	1.57	1.15
2:A4:879:LEU:HB2	6:D3:564:ASN:HB2	1.16	1.15
2:A4:1129:PRO:HA	3:A6:142:GLU:HG3	1.17	1.15
3:A5:1395:LYS:HG3	28:Z2:870:ILE:C	1.71	1.15
6:D7:527:ASN:O	11:I3:181:GLN:HG2	1.45	1.15
11:I1:949:CYS:SG	15:M1:602:MET:HE2	1.85	1.15
11:I1:981:VAL:CG2	20:R1:147:LEU:CD2	2.24	1.15
11:I1:1665:LEU:CB	11:I2:1667:GLN:HG2	1.62	1.15
11:I2:840:LEU:HB3	17:O3:247:TRP:CD1	1.81	1.15
11:I2:884:LEU:O	16:N3:397:GLU:HG3	1.45	1.15
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB3	1.46	1.15
11:I2:1046:HIS:HB3	17:O3:280:GLU:O	0.98	1.15
17:O2:111:TYR:H	18:P2:325:ILE:CG2	1.58	1.15
21:S3:1032:ILE:HD11	21:S3:1054:LEU:HB2	1.26	1.15
28:Z3:411:LEU:H	30:b3:251:ILE:CD1	1.49	1.15
1:A1:1098:ARG:CZ	11:I1:1478:VAL:CG1	2.14	1.15
2:A2:1164:TYR:CD1	4:B5:342:ARG:CD	2.28	1.15
2:A4:235:TYR:CD1	4:B4:347:LEU:HB2	1.82	1.15
2:A4:867:GLU:N	6:D3:605:THR:CG2	2.10	1.15
2:A4:904:GLN:NE2	6:D3:604:ASP:N	1.94	1.15
2:A4:986:THR:CG2	6:D3:504:LYS:HG3	1.63	1.15
2:A4:1122:LEU:HA	3:A6:132:ASP:O	1.45	1.15
2:A4:1155:ASN:H	3:A6:175:GLU:HB2	0.98	1.15
3:A6:159:SER:HA	5:C4:743:LEU:O	1.42	1.15
11:I1:880:MET:HB2	17:O1:250:LEU:CA	1.75	1.15
11:I1:1039:ALA:H	20:R1:169:GLY:C	1.46	1.15
11:I1:1669:ARG:HH12	11:I2:1642:LEU:CD1	1.60	1.15
11:I2:890:TYR:CD1	17:O3:238:ALA:C	2.25	1.15
11:I2:950:LEU:CD2	16:N3:410:MET:HE1	1.72	1.15
11:I2:1029:LEU:N	20:R3:173:LEU:H	1.44	1.15
11:I2:1051:LYS:NZ	17:O3:285:LYS:HD2	1.60	1.15
11:I4:1275:SER:HA	26:X3:508:LEU:HD11	1.16	1.15
27:Y2:41:ASP:CA	29:a2:231[B]:HIS:NE2	2.09	1.15
28:Z1:410:ASN:CA	30:b1:251:ILE:CD1	2.15	1.15
28:Z1:535:ILE:HG13	30:b1:182:PRO:CB	1.75	1.15
1:A1:873:PRO:CB	6:D3:218:LYS:NZ	2.09	1.14
2:A2:1121:LEU:CA	3:A5:133:LYS:CD	2.25	1.14
1:A3:1222:ALA:HB3	2:A4:723:PHE:CE2	1.82	1.14
2:A4:868:GLN:C	6:D3:570:VAL:CG1	2.20	1.14
2:A4:988:ARG:NH2	6:D3:499:LEU:HA	1.61	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1149:THR:HG23	3:A6:173:ASN:N	1.61	1.14
3:A5:1093:THR:CG2	11:I5:37:GLU:OE2	1.87	1.14
3:A6:1410:ALA:CB	26:X4:744:MET:N	2.10	1.14
11:I1:947:LEU:CA	16:N1:407:ALA:HB1	1.77	1.14
11:I1:959:SER:HA	16:N1:395:GLU:CB	1.77	1.14
11:I1:981:VAL:CG2	20:R1:147:LEU:HD21	1.76	1.14
11:I1:1642:LEU:HD13	11:I2:1669:ARG:NH1	1.62	1.14
11:I2:1017:VAL:HG21	17:O3:260:LEU:HD11	1.15	1.14
27:Y2:41:ASP:C	29:a2:231[B]:HIS:NE2	2.04	1.14
28:Z1:410:ASN:C	30:b1:251:ILE:CD1	2.20	1.14
28:Z1:551:THR:CG2	30:b1:233:TRP:CH2	2.17	1.14
28:Z4:524:VAL:C	30:b4:208:ASN:OD1	1.91	1.14
1:A1:831:ALA:O	6:D3:298:ASN:ND2	1.80	1.14
2:A2:1139:ILE:HA	3:A5:131:PRO:HD2	1.27	1.14
1:A3:1052:THR:CB	6:D3:816:VAL:HB	1.64	1.14
1:A3:1056:PHE:CE1	6:D3:809:ALA:C	2.00	1.14
2:A4:863:GLN:CG	6:D3:603:SER:O	1.96	1.14
2:A4:974:PRO:HA	6:D3:499:LEU:HD11	1.29	1.14
2:A4:1129:PRO:C	3:A6:142:GLU:CG	2.20	1.14
3:A5:222:ALA:HB1	5:C2:739:MET:CA	1.76	1.14
3:A5:222:ALA:CA	5:C2:738:ASP:C	1.76	1.14
3:A6:1358:LEU:CG	28:Z4:878:HIS:H	1.28	1.14
3:A6:1399:ARG:CB	28:Z4:890:ARG:CB	2.24	1.14
3:A6:1399:ARG:CZ	28:Z4:945:VAL:CB	2.24	1.14
9:G1:258:LYS:O	17:O2:256:TYR:CB	1.94	1.14
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG3	1.74	1.14
11:I1:1114:VAL:HG21	16:N1:436:ALA:N	1.47	1.14
11:I2:921:GLU:CA	15:M3:592:LEU:O	1.94	1.14
11:I2:947:LEU:HG	16:N3:407:ALA:C	1.72	1.14
11:I2:1024:PHE:HB2	16:N3:406:HIS:CD2	1.81	1.14
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD1	1.75	1.14
28:Z3:524:VAL:N	30:b3:238:ASN:HB2	1.26	1.14
2:A2:867:GLU:OE2	6:D1:609:ILE:HG13	1.48	1.14
2:A2:980:ARG:CG	6:D1:473:GLU:CG	2.26	1.14
1:A3:1197:ALA:HB1	2:A4:728:LYS:HG3	1.18	1.14
2:A4:904:GLN:HE22	6:D3:604:ASP:N	1.45	1.14
2:A4:1055:ARG:HD3	6:D4:762:ARG:CA	1.78	1.14
2:A4:1130:ARG:O	3:A6:161[A]:ASP:HB2	1.44	1.14
3:A5:164:LEU:HD12	5:C2:743:LEU:O	1.46	1.14
3:A5:179:TYR:CB	5:C2:744:PHE:CG	2.30	1.14
9:G1:253:SER:CB	15:M2:601:ASP:CB	2.12	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:HD11	15:M1:594:LYS:HE3	1.27	1.14
11:I1:947:LEU:CD1	17:O1:256:TYR:OH	1.95	1.14
11:I1:952:LEU:C	16:N1:400:LEU:HD23	1.71	1.14
11:I1:1109:LEU:CG	16:N1:438:LEU:HA	1.62	1.14
11:I2:967:SER:CB	15:M3:625:GLY:HA2	1.75	1.14
11:I2:1048:GLU:HB3	17:O3:284:LYS:O	1.47	1.14
27:Y3:41:ASP:C	29:a3:231[B]:HIS:NE2	2.04	1.14
28:Z1:411:LEU:CD2	30:b1:251:ILE:HG23	1.77	1.14
28:Z2:401:THR:C	30:b2:254:SER:CB	2.09	1.14
28:Z4:528:ILE:H	30:b4:208:ASN:ND2	1.44	1.14
28:Z4:554:PHE:CD2	30:b4:233:TRP:C	2.13	1.14
2:A2:873:PRO:O	6:D1:563:GLU:HB3	1.44	1.14
2:A2:981:PRO:HG2	6:D1:504:LYS:CG	1.77	1.14
2:A2:1157:TYR:HB2	3:A5:174:PRO:O	1.43	1.14
3:A5:232:LEU:HA	5:C2:737:LYS:O	1.48	1.14
3:A6:232:LEU:HD22	5:C4:740:ARG:CG	1.77	1.14
3:A6:1416:ARG:CG	28:Z4:966:CYS:C	2.21	1.14
11:I1:841:PHE:CG	17:O1:243:LEU:CD1	2.30	1.14
11:I1:873:ILE:HG22	17:O1:255:GLY:N	1.61	1.14
11:I1:922:ASP:HB3	15:M1:589:GLY:HA2	1.28	1.14
11:I1:963:LEU:HD21	20:R1:176:ARG:HH22	0.99	1.14
11:I1:966:TRP:CE3	20:R1:167:GLN:HB3	1.70	1.14
11:I1:987:GLY:H	15:M1:613:ASP:CA	1.61	1.14
11:I1:1110:SER:N	16:N1:437:VAL:C	1.88	1.14
11:I2:885:GLU:CA	16:N3:397:GLU:HG2	1.52	1.14
11:I2:888:GLU:N	16:N3:393:ILE:HG21	1.58	1.14
11:I2:931:VAL:CB	15:M3:600:ASN:O	1.95	1.14
11:I2:955:LYS:NZ	17:O3:249:ARG:NH2	1.95	1.14
11:I2:980:ILE:CD1	20:R3:147:LEU:HB2	1.64	1.14
11:I2:981:VAL:H	20:R3:147:LEU:CD1	1.57	1.14
11:I2:990:GLU:O	17:O3:272:SER:N	1.78	1.14
11:I2:994:ALA:O	17:O3:267:ALA:HB1	1.43	1.14
11:I2:1055:GLU:C	17:O3:278:GLU:HA	1.73	1.14
21:S4:176:MET:HE2	21:S4:212:LEU:HD11	1.20	1.14
28:Z1:524:VAL:C	30:b1:208:ASN:OD1	1.91	1.14
28:Z3:410:ASN:C	30:b3:251:ILE:CD1	2.19	1.14
28:Z4:410:ASN:C	30:b4:251:ILE:CD1	2.19	1.14
1:A1:1399:ARG:N	2:A2:888:GLN:OE1	1.81	1.14
2:A2:862:LEU:N	6:D1:606:LYS:HE3	1.55	1.14
2:A2:870:HIS:CG	6:D1:566:PHE:CD1	2.35	1.14
2:A2:1155:ASN:HA	3:A5:175:GLU:HG2	1.16	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:781:ARG:NH2	6:D3:633:LYS:HE2	1.60	1.14
2:A4:781:ARG:HD2	6:D3:633:LYS:NZ	1.59	1.14
2:A4:879:LEU:HD12	6:D3:564:ASN:OD1	0.98	1.14
2:A4:972:GLY:C	6:D3:205:LEU:N	1.95	1.14
3:A6:190:ALA:CB	5:C4:748:ASN:HD21	1.61	1.14
3:A6:1410:ALA:HB3	26:X4:742:ALA:O	1.38	1.14
8:F1:1093:LEU:HB3	17:O2:244:GLU:OE1	1.36	1.14
11:I1:841:PHE:CD2	15:M1:588:MET:CE	2.07	1.14
11:I1:947:LEU:HA	16:N1:407:ALA:HB1	1.23	1.14
11:I1:1543:LEU:O	12:J2:300:ILE:HG23	1.48	1.14
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HD12	1.61	1.14
11:I2:966:TRP:CE3	20:R3:167:GLN:NE2	2.15	1.14
11:I3:1267:LEU:CG	26:X1:497:ARG:CZ	2.23	1.14
21:S3:176:MET:HE2	21:S3:212:LEU:HD11	1.21	1.14
28:Z1:524:VAL:CG2	30:b1:236:THR:O	1.81	1.14
28:Z4:411:LEU:H	30:b4:251:ILE:CD1	1.49	1.14
2:A2:779:ASP:CA	6:D1:675:ARG:HA	1.53	1.13
2:A2:907:SER:O	6:D1:601:PHE:CA	1.80	1.13
2:A2:1139:ILE:HG21	3:A5:134:VAL:N	1.62	1.13
2:A2:1148:ARG:HD2	3:A5:172:PRO:HA	1.20	1.13
1:A3:1204:TRP:HB3	2:A4:731:ILE:HG22	1.30	1.13
3:A5:230:LYS:N	5:C2:739:MET:CE	2.10	1.13
3:A5:995:VAL:O	11:I5:61:LYS:HB3	1.45	1.13
11:I1:843:GLU:HG2	15:M1:587:GLU:CD	1.72	1.13
11:I1:880:MET:O	17:O1:246:LEU:CG	1.96	1.13
11:I1:1035:GLN:H	15:M1:627:LEU:HD23	1.09	1.13
11:I1:1039:ALA:N	20:R1:169:GLY:CA	2.02	1.13
11:I1:1665:LEU:HD23	11:I2:1667:GLN:O	1.43	1.13
11:I2:976:ARG:O	20:R3:150:ASN:HB2	1.42	1.13
11:I2:980:ILE:CD1	15:M3:622:VAL:CG2	2.23	1.13
11:I2:981:VAL:HB	20:R3:147:LEU:HD23	1.28	1.13
11:I2:983:LEU:HD22	15:M3:617:THR:OG1	0.98	1.13
11:I2:1034:ASP:OD1	15:M3:627:LEU:HA	1.47	1.13
11:I2:1054:ILE:CA	17:O3:280:GLU:N	2.00	1.13
11:I2:1067:PHE:CG	16:N3:432:TYR:N	1.88	1.13
28:Z1:528:ILE:H	30:b1:208:ASN:ND2	1.44	1.13
1:A1:870:HIS:C	6:D3:279:HIS:CB	2.21	1.13
1:A1:1201:ARG:CD	2:A2:734:LEU:HD23	1.76	1.13
1:A1:1224:PRO:HD2	2:A2:734:LEU:HD22	1.31	1.13
2:A2:235:TYR:CD1	4:B2:347:LEU:HB2	1.82	1.13
2:A2:1133:GLU:O	3:A5:138:LEU:HD22	1.36	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1149:THR:HG23	3:A5:172:PRO:HG3	1.25	1.13
2:A4:172:PRO:HB3	6:D3:781:ARG:CD	1.79	1.13
2:A4:780:GLU:H	6:D3:677:GLN:C	1.53	1.13
2:A4:985:ALA:HB1	6:D3:500:LYS:CA	1.78	1.13
2:A4:1161:ALA:HB1	3:A6:137:HIS:CE1	1.78	1.13
3:A5:155:TYR:OH	5:C2:740:ARG:HG2	1.46	1.13
3:A5:1027:HIS:ND1	11:I5:65:LYS:HB3	1.61	1.13
8:F1:1138:TRP:CD1	17:O2:244:GLU:HG2	1.82	1.13
9:G1:270:ARG:CB	16:N2:413:VAL:O	1.96	1.13
11:I1:920:PHE:O	15:M1:592:LEU:CA	1.85	1.13
11:I1:952:LEU:CD1	16:N1:400:LEU:HD22	1.63	1.13
11:I1:976:ARG:N	20:R1:149:ARG:HH11	1.46	1.13
11:I1:1104:LEU:HD13	16:N1:433:GLU:HA	1.13	1.13
11:I2:1044:GLY:HA2	17:O3:275:LEU:CD1	1.76	1.13
11:I3:1273:GLU:HA	26:X1:523:LEU:HA	1.16	1.13
28:Z1:558:LEU:HA	30:b1:236:THR:N	1.56	1.13
28:Z2:411:LEU:CD2	30:b2:251:ILE:HG23	1.77	1.13
28:Z2:528:ILE:HG12	30:b2:210:ARG:NH1	1.51	1.13
28:Z3:524:VAL:CG1	30:b3:236:THR:CB	2.12	1.13
28:Z4:411:LEU:CD2	30:b4:251:ILE:HG23	1.77	1.13
28:Z4:524:VAL:N	30:b4:238:ASN:HB2	1.26	1.13
2:A2:223:THR:OG1	6:D1:709:ARG:NH2	1.81	1.13
2:A2:968:SER:HA	6:D1:202:GLN:N	1.62	1.13
2:A2:970:PHE:CD1	6:D1:196:ILE:HD12	1.84	1.13
2:A2:980:ARG:HG3	6:D1:526:LEU:N	1.62	1.13
2:A2:986:THR:OG1	6:D1:497:PHE:CE1	2.00	1.13
1:A3:1054:SER:O	6:D3:809:ALA:HB1	0.97	1.13
3:A5:233:THR:CG2	5:C2:737:LYS:HB3	1.78	1.13
3:A6:1309:GLY:O	28:Z4:830:LEU:N	1.81	1.13
9:G1:263:MET:HE2	17:O2:256:TYR:OH	1.45	1.13
11:I1:927:HIS:O	15:M1:597:LYS:HA	1.43	1.13
11:I1:1048:GLU:HG2	17:O1:284:LYS:O	1.45	1.13
11:I1:1607:GLN:O	12:J2:298:PHE:CG	1.64	1.13
11:I2:882:LYS:CB	17:O3:245:GLU:O	1.96	1.13
11:I2:943:ALA:HA	17:O3:260:LEU:HD13	1.26	1.13
11:I2:1041:GLN:NE2	15:M3:617:THR:HG22	1.64	1.13
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB2	1.77	1.13
11:I2:1113:LEU:CD2	17:O3:282:LYS:HE2	1.78	1.13
11:I4:1274:HIS:CE1	26:X3:529:TRP:CB	2.29	1.13
11:I4:1275:SER:CB	26:X3:525:ILE:CG1	2.22	1.13
28:Z3:524:VAL:C	30:b3:208:ASN:OD1	1.91	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:555:LYS:HE2	30:b4:216:LEU:HD22	1.24	1.13
1:A1:1331:GLU:OE1	2:A2:857:LYS:CE	1.95	1.13
2:A2:874:VAL:H	6:D1:568:ARG:HA	0.98	1.13
2:A4:982:THR:HG23	6:D3:496:LEU:CB	1.79	1.13
3:A5:996:ASN:CB	11:I5:56:ARG:C	2.21	1.13
3:A6:1411:ARG:HB2	28:Z4:968:ARG:CB	1.79	1.13
11:I1:797:LEU:HD13	17:O1:245:GLU:CA	1.76	1.13
11:I1:887:GLN:CB	16:N1:393:ILE:HG21	1.17	1.13
11:I1:950:LEU:CB	16:N1:407:ALA:CB	2.19	1.13
11:I1:1043:LEU:HA	16:N1:430:ARG:HB2	1.17	1.13
11:I2:874:LEU:O	17:O3:252:VAL:HA	1.46	1.13
11:I2:880:MET:CE	15:M3:598:GLU:OE1	1.97	1.13
17:O3:158:GLU:O	18:P3:315:GLU:CD	1.90	1.13
28:Z1:401:THR:C	30:b1:254:SER:CB	2.09	1.13
28:Z2:524:VAL:C	30:b2:208:ASN:OD1	1.91	1.13
28:Z3:410:ASN:ND2	30:b3:252:ALA:CB	2.12	1.13
28:Z3:555:LYS:C	30:b3:212:PHE:HA	1.65	1.13
28:Z4:541:PRO:HD2	30:b4:180:GLY:HA3	1.21	1.13
2:A2:780:GLU:HB2	6:D1:677:GLN:O	0.96	1.13
2:A4:778:PHE:N	6:D3:678:GLY:HA3	1.29	1.13
2:A4:908:LEU:CA	6:D3:552:TYR:HE1	1.60	1.13
3:A5:207:LEU:HD13	5:C2:742:ASP:CB	1.74	1.13
3:A5:1026:PRO:CG	11:I5:73:TYR:HD1	1.35	1.13
1:A1:1396:GLY:CA	2:A2:888:GLN:CB	2.16	1.12
2:A2:876:ARG:HD2	6:D1:558:LYS:HG2	1.25	1.12
2:A2:970:PHE:HA	6:D1:192:TYR:CE1	1.83	1.12
2:A2:988:ARG:NH2	6:D1:498:GLU:O	1.80	1.12
2:A4:861:GLN:O	6:D3:607:PRO:CD	1.95	1.12
2:A4:973:GLU:O	6:D3:499:LEU:CG	1.97	1.12
3:A6:166:LEU:CB	5:C4:740:ARG:HB3	1.64	1.12
3:A6:1391:ARG:HA	28:Z4:869:HIS:CB	1.76	1.12
3:A6:1399:ARG:NE	28:Z4:945:VAL:CB	2.11	1.12
3:A6:1410:ALA:CB	26:X4:743:PHE:C	2.22	1.12
8:F2:140:GLU:HB3	17:O4:237:PRO:HG2	1.20	1.12
11:I1:797:LEU:HD22	17:O1:245:GLU:HG3	1.16	1.12
11:I1:873:ILE:O	17:O1:251:ILE:CG2	1.97	1.12
11:I1:956:ILE:HA	20:R1:166:LEU:HD22	1.22	1.13
11:I2:966:TRP:CE3	20:R3:167:GLN:HB3	1.84	1.12
11:I2:1029:LEU:HB3	20:R3:174:ARG:HG3	1.28	1.13
17:O4:107:THR:CG2	18:P4:321:ILE:CD1	2.27	1.12
28:Z2:522:ASN:N	30:b2:241:PRO:CG	2.02	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:541:PRO:HD2	30:b2:180:GLY:HA3	1.21	1.12
28:Z4:402:GLY:HA2	30:b4:273:LYS:HB2	1.24	1.12
28:Z4:524:VAL:N	30:b4:238:ASN:CB	2.03	1.13
2:A4:976:LEU:HD11	6:D3:501:LEU:HD22	1.25	1.12
2:A4:1125:LEU:O	3:A6:137:HIS:C	1.90	1.12
11:I1:1035:GLN:HG3	15:M1:623:LEU:O	1.46	1.12
11:I1:1041:GLN:CB	15:M1:620:VAL:CG2	1.97	1.12
2:A2:827:ILE:HD12	2:A2:859:GLN:HB2	1.23	1.12
2:A2:875:LEU:N	6:D1:567:LEU:C	2.06	1.12
2:A2:980:ARG:NE	6:D1:525:ARG:CA	2.11	1.12
2:A2:1131:ILE:HG13	3:A5:137:HIS:CD2	1.83	1.12
2:A4:975:GLU:N	6:D3:499:LEU:CB	2.13	1.12
2:A4:1094:ILE:HD11	6:D4:708:ASP:CA	1.79	1.12
2:A4:1114:ILE:HD11	5:C4:731:LYS:CG	1.80	1.12
2:A4:1133:GLU:CA	3:A6:145:THR:CG2	2.27	1.12
2:A4:1139:ILE:H	3:A6:138:LEU:HD12	1.04	1.12
2:A4:1148:ARG:HB3	3:A6:173:ASN:HA	1.14	1.12
2:A4:1156:ASP:HA	3:A6:166:LEU:O	1.48	1.12
3:A5:1029:ILE:CG2	11:I5:71:GLU:H	1.62	1.12
3:A5:1368:GLN:CB	28:Z2:841:ALA:CA	2.17	1.12
5:C3:732:LYS:NZ	11:I2:1225:LYS:CD	2.11	1.12
11:I1:841:PHE:CD2	15:M1:588:MET:HE2	1.22	1.12
11:I1:1037:THR:HB	20:R1:173:LEU:CD2	1.60	1.12
11:I1:1042:LEU:O	16:N1:430:ARG:HD2	1.49	1.12
11:I1:1611:PHE:CE1	11:I2:1669:ARG:C	2.04	1.12
11:I1:1739:GLU:O	11:I2:1604:ALA:CA	1.96	1.12
11:I2:890:TYR:H	17:O3:242:ARG:NE	1.45	1.12
11:I2:921:GLU:C	15:M3:592:LEU:C	2.17	1.12
11:I2:987:GLY:H	15:M3:613:ASP:HB3	1.09	1.12
11:I2:1045:PHE:C	15:M3:619:ILE:CD1	2.22	1.12
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD11	1.77	1.12
11:I2:1058:GLY:C	17:O3:277:GLU:HA	1.68	1.12
11:I2:1110:SER:OG	16:N3:438:LEU:HG	0.95	1.12
28:Z2:411:LEU:H	30:b2:251:ILE:CD1	1.50	1.12
28:Z2:524:VAL:CG2	30:b2:236:THR:O	1.81	1.12
1:A1:1332:ARG:CG	6:D1:636:ASP:CB	1.94	1.12
2:A2:826:ASN:CG	6:D1:633:LYS:CB	2.22	1.12
2:A2:970:PHE:CD2	6:D1:498:GLU:OE1	2.02	1.12
2:A2:1143:LEU:CD1	3:A5:132:ASP:N	2.11	1.12
1:A3:1021:LEU:CG	6:D3:816:VAL:HG13	1.77	1.12
1:A3:1220:PRO:CB	2:A4:646:ILE:CD1	2.23	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1138:GLU:O	3:A6:130:ILE:HD13	1.01	1.12
2:A4:1139:ILE:H	3:A6:138:LEU:HD11	0.95	1.12
3:A5:1094:ILE:HG13	11:I5:4:LEU:HD12	1.21	1.12
3:A5:1415:PHE:H	28:Z2:960:CYS:N	1.48	1.12
8:F1:1138:TRP:CB	17:O2:244:GLU:CG	2.25	1.12
9:G1:267:GLY:HA2	16:N2:414:ALA:C	1.75	1.12
11:I1:880:MET:CG	17:O1:247:TRP:CA	2.27	1.12
11:I1:883:ALA:HB1	17:O1:243:LEU:C	1.70	1.12
11:I1:920:PHE:CZ	17:O1:247:TRP:NE1	2.15	1.12
11:I1:976:ARG:NH2	15:M1:622:VAL:HG21	1.63	1.12
11:I1:1029:LEU:CG	20:R1:171:ALA:CA	1.84	1.12
11:I1:1040:HIS:HD1	15:M1:623:LEU:HD11	1.12	1.12
11:I1:1049:LEU:HD12	15:M1:626:HIS:NE2	1.37	1.12
11:I2:890:TYR:N	17:O3:242:ARG:CD	2.12	1.12
11:I2:898:VAL:HG22	17:O3:237:PRO:HD3	1.24	1.12
11:I2:921:GLU:N	15:M3:592:LEU:HG	1.34	1.12
11:I2:1028:CYS:C	20:R3:169:GLY:C	2.12	1.12
11:I2:1041:GLN:HE22	15:M3:617:THR:HG22	1.02	1.12
11:I2:1043:LEU:HD11	16:N3:433:GLU:HB3	1.16	1.12
11:I2:1100:ILE:HG23	16:N3:433:GLU:CD	1.74	1.12
11:I3:1270:LYS:HE2	26:X1:530:ARG:HG2	1.16	1.12
28:Z3:411:LEU:CD2	30:b3:251:ILE:HG23	1.77	1.12
28:Z3:528:ILE:O	30:b3:184:SER:CB	1.82	1.12
1:A1:1091:VAL:HG11	6:D1:804:SER:CB	1.67	1.12
1:A1:1200:ARG:H	2:A2:729:SER:HB2	0.97	1.12
2:A2:873:PRO:O	6:D1:563:GLU:CG	1.97	1.12
2:A2:989:MSE:HG2	6:D1:500:LYS:HD2	1.26	1.12
2:A2:1114:ILE:HD11	5:C2:731:LYS:CG	1.80	1.12
2:A2:1151:THR:HG23	5:C2:734:VAL:H	1.04	1.12
1:A3:1054:SER:C	6:D3:809:ALA:CB	2.18	1.12
2:A4:782:VAL:CG2	6:D3:677:GLN:HA	1.79	1.12
3:A5:1101:GLN:NE2	11:I5:33:THR:CG2	1.90	1.12
3:A5:1369:ILE:CG2	28:Z2:831:LEU:H	1.56	1.12
3:A5:1395:LYS:HG3	28:Z2:870:ILE:O	1.49	1.12
3:A5:1395:LYS:HA	28:Z2:873:LEU:CB	1.72	1.12
3:A6:1358:LEU:CD2	28:Z4:875:LEU:HA	1.76	1.12
8:F1:1137:GLN:CB	17:O2:248:SER:N	1.97	1.12
9:G1:258:LYS:H	17:O2:253:LEU:CA	1.59	1.12
9:G1:263:MET:N	17:O2:256:TYR:CZ	2.17	1.12
11:I1:950:LEU:HB3	16:N1:407:ALA:N	1.46	1.12
11:I1:966:TRP:CD1	20:R1:165:SER:O	2.03	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1040:HIS:HD1	15:M1:623:LEU:CD1	1.60	1.12
11:I2:900:ARG:HB2	17:O3:232:LYS:HD3	1.32	1.12
11:I2:979:ALA:CB	20:R3:167:GLN:HE22	1.62	1.12
11:I2:983:LEU:CD2	15:M3:617:THR:OG1	1.91	1.12
11:I4:775:ASP:OD1	29:a4:40[A]:GLU:CG	1.96	1.12
11:I4:1275:SER:N	26:X3:525:ILE:HB	0.80	1.12
17:O3:162:LYS:HG3	18:P3:315:GLU:OE1	1.50	1.12
28:Z1:401:THR:HB	30:b1:253:SER:O	1.48	1.12
28:Z1:526:ARG:N	30:b1:208:ASN:OD1	1.83	1.12
28:Z2:528:ILE:O	30:b2:184:SER:CB	1.82	1.12
28:Z4:526:ARG:N	30:b4:208:ASN:OD1	1.83	1.12
1:A1:868:GLN:C	6:D3:280:GLN:CB	2.22	1.12
2:A2:827:ILE:O	2:A2:863:GLN:CB	0.82	1.12
2:A2:989:MSE:H	6:D1:500:LYS:CE	1.53	1.12
1:A3:1021:LEU:CD1	6:D3:816:VAL:HA	1.79	1.12
2:A4:970:PHE:CZ	6:D3:498:GLU:OE2	1.88	1.12
2:A4:1055:ARG:HD3	6:D4:762:ARG:C	1.74	1.12
3:A5:1395:LYS:HB2	28:Z2:870:ILE:HA	1.17	1.12
3:A5:1398:LYS:CD	28:Z2:873:LEU:O	1.97	1.12
11:I2:880:MET:SD	17:O3:250:LEU:CD2	2.37	1.12
11:I2:891:LEU:HD11	16:N3:393:ILE:HD11	1.17	1.12
11:I2:949:CYS:SG	15:M3:602:MET:HE1	1.90	1.12
11:I2:980:ILE:HB	15:M3:618:GLN:CB	1.78	1.12
11:I2:1020:ALA:CB	16:N3:410:MET:N	2.09	1.12
11:I2:1106:LYS:HA	16:N3:439:ARG:NH1	1.23	1.12
17:O3:155:VAL:HB	18:P3:321:ILE:HG23	1.19	1.12
21:S2:1032:ILE:HD11	21:S2:1054:LEU:HB2	1.26	1.12
28:Z1:535:ILE:HG13	30:b1:182:PRO:HB2	1.13	1.12
28:Z3:401:THR:HB	30:b3:253:SER:O	1.48	1.12
28:Z4:410:ASN:ND2	30:b4:252:ALA:CB	2.12	1.12
2:A2:970:PHE:C	6:D1:202:GLN:CG	2.23	1.11
2:A4:827:ILE:O	2:A4:863:GLN:CB	0.82	1.11
3:A5:1024:ASP:CB	11:I5:98:ALA:HB3	1.79	1.11
3:A5:1026:PRO:CD	11:I5:66:LEU:HD23	1.80	1.11
3:A5:1363:ASP:H	28:Z2:875:LEU:CB	1.63	1.11
3:A6:1401:VAL:HG13	28:Z4:919:PHE:HA	1.22	1.11
11:I1:837:MET:CE	17:O1:243:LEU:N	2.12	1.11
11:I1:894:VAL:CG2	17:O1:238:ALA:CB	2.24	1.11
11:I1:913:ALA:H	15:M1:584:GLN:NE2	1.47	1.11
11:I1:976:ARG:NH2	15:M1:622:VAL:CG2	2.13	1.11
11:I2:976:ARG:NH1	15:M3:622:VAL:CG2	2.08	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:977:ASN:OD1	15:M3:621:ARG:HB3	1.47	1.11
11:I2:977:ASN:HB2	20:R3:150:ASN:HB3	1.15	1.11
11:I2:999:SER:HB2	17:O3:264:ILE:HG21	1.24	1.11
11:I4:1274:HIS:ND1	26:X3:531:LEU:HD12	1.59	1.11
28:Z1:534:ASP:OD2	30:b1:183:LEU:HB2	0.94	1.11
28:Z2:401:THR:HB	30:b2:253:SER:O	1.48	1.11
28:Z4:524:VAL:CG1	30:b4:236:THR:CB	2.12	1.11
1:A1:834:GLU:C	6:D3:302:PRO:HB2	1.73	1.11
1:A1:870:HIS:CB	6:D3:280:GLN:N	2.12	1.11
1:A1:1091:VAL:HG12	6:D1:804:SER:CB	1.66	1.11
1:A1:1199:GLN:O	2:A2:730:THR:HA	1.49	1.11
2:A2:826:ASN:HA	6:D1:633:LYS:HB2	1.29	1.11
2:A2:1151:THR:CG2	5:C2:734:VAL:H	1.43	1.11
2:A4:868:GLN:CG	6:D3:608:ILE:HD12	1.63	1.11
2:A4:868:GLN:NE2	6:D3:608:ILE:HD12	1.65	1.11
3:A5:207:LEU:CD1	5:C2:742:ASP:CB	2.28	1.11
3:A5:1029:ILE:CG2	11:I5:71:GLU:N	2.12	1.11
3:A6:1311:ARG:H	28:Z4:830:LEU:CB	1.64	1.11
6:D7:530:ARG:CB	11:I3:181:GLN:HB2	1.72	1.11
8:F2:140:GLU:HB2	17:O4:237:PRO:CG	1.70	1.11
9:G1:254:ASN:HD21	17:O2:261:LYS:HD2	1.14	1.11
11:I1:843:GLU:CA	15:M1:587:GLU:OE2	1.97	1.11
11:I1:877:ILE:HG21	17:O1:253:LEU:N	1.42	1.11
11:I1:877:ILE:CB	17:O1:252:VAL:N	1.97	1.11
11:I1:884:LEU:HD22	16:N1:396:ILE:HB	1.21	1.11
11:I1:1021:ILE:CD1	16:N1:410:MET:CG	2.25	1.11
11:I1:1024:PHE:HB3	16:N1:406:HIS:CG	1.84	1.11
11:I1:1037:THR:HA	15:M1:624:ASN:CG	1.75	1.11
11:I1:1055:GLU:CG	17:O1:280:GLU:HB2	1.78	1.11
11:I1:1071:LEU:H	16:N1:429:GLU:CG	1.63	1.11
11:I1:1108:PRO:HB3	16:N1:443:GLU:HB2	1.29	1.11
11:I2:911:PRO:HB3	15:M3:584:GLN:NE2	1.51	1.11
11:I2:922:ASP:N	15:M3:592:LEU:C	1.96	1.11
11:I2:1037:THR:HG21	20:R3:169:GLY:CA	1.79	1.11
11:I4:1275:SER:CA	26:X3:525:ILE:HB	1.79	1.11
11:I4:1279:THR:CG2	26:X3:523:LEU:C	2.07	1.11
11:I5:536:GLU:C	25:W2:8:HIS:N	2.07	1.11
28:Z2:410:ASN:ND2	30:b2:252:ALA:CB	2.12	1.11
28:Z2:558:LEU:HA	30:b2:236:THR:N	1.56	1.11
28:Z4:401:THR:HB	30:b4:253:SER:O	1.48	1.11
1:A1:870:HIS:CB	6:D3:279:HIS:CG	2.24	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1229:VAL:HG21	2:A2:725:GLU:HG2	1.33	1.11
2:A2:864:ARG:CZ	6:D1:610:ASN:ND2	2.12	1.11
2:A4:872:ALA:HB3	6:D3:565:MET:CE	1.80	1.11
2:A4:875:LEU:O	6:D3:567:LEU:CG	1.81	1.11
2:A4:988:ARG:HH22	6:D3:499:LEU:HA	0.96	1.11
3:A5:1033:GLN:NE2	11:I5:70:GLU:HB3	1.46	1.11
8:F1:1262:HIS:ND1	17:O2:259:ASP:CA	2.13	1.11
11:I1:881:ILE:HD11	17:O1:253:LEU:HD12	1.30	1.11
11:I1:916:ALA:C	16:N1:389:PHE:HZ	1.57	1.11
11:I1:923:GLY:N	15:M1:592:LEU:HB3	1.62	1.11
11:I1:924:ILE:HG13	15:M1:596:ILE:HG13	1.21	1.11
11:I1:937:TYR:O	17:O1:257:ALA:O	1.67	1.11
11:I1:967:SER:HB3	15:M1:625:GLY:HA2	1.27	1.11
11:I1:1048:GLU:OE1	20:R1:143:PHE:CD1	0.76	1.11
11:I2:881:ILE:HG22	17:O3:249:ARG:CG	1.79	1.11
11:I2:895:ARG:HA	17:O3:236:ASP:N	1.45	1.11
11:I2:925:LEU:HD13	20:R3:156:GLY:H	0.99	1.11
28:Z1:535:ILE:HG12	30:b1:182:PRO:CB	1.74	1.11
2:A2:1159:ASP:HB3	3:A5:175:GLU:CD	1.50	1.11
1:A3:1084:ARG:O	6:D3:797:GLY:HA3	1.51	1.11
2:A4:861:GLN:C	6:D3:607:PRO:HD3	1.73	1.11
2:A4:976:LEU:CD2	6:D3:245:ARG:NH1	2.14	1.11
2:A4:1156:ASP:CB	3:A6:176:LEU:CD2	2.29	1.11
3:A5:998:SER:CB	11:I5:62:GLU:OE1	1.97	1.11
3:A6:1362:ALA:HB3	28:Z4:873:LEU:N	1.34	1.11
11:I1:934:LEU:O	15:M1:606:LEU:HB2	1.46	1.11
11:I1:950:LEU:HD22	16:N1:406:HIS:CG	1.85	1.11
11:I1:1662:ARG:CD	11:I2:1603:ARG:HH12	1.63	1.11
11:I2:850:ILE:CG2	15:M3:598:GLU:CD	2.22	1.11
11:I2:899:LEU:HD21	17:O3:235:ASN:OD1	1.51	1.11
11:I2:965:ALA:HB3	20:R3:164:PRO:HA	1.31	1.11
11:I2:981:VAL:HA	20:R3:147:LEU:HD21	1.22	1.11
11:I2:1017:VAL:HG22	16:N3:411:GLN:HA	1.17	1.11
28:Z1:410:ASN:ND2	30:b1:252:ALA:CB	2.12	1.11
28:Z2:528:ILE:H	30:b2:208:ASN:ND2	1.44	1.11
28:Z2:555:LYS:HE2	30:b2:216:LEU:HD22	1.24	1.11
28:Z3:522:ASN:N	30:b3:241:PRO:HG3	1.53	1.11
28:Z3:526:ARG:N	30:b3:208:ASN:OD1	1.83	1.11
2:A2:227:SER:CB	6:D1:711:PHE:HD2	1.64	1.11
2:A2:982:THR:HG21	6:D1:494:LEU:O	0.94	1.11
2:A2:1133:GLU:C	3:A5:138:LEU:HD22	1.73	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD12	1.23	1.11
2:A4:867:GLU:CG	6:D3:605:THR:CB	2.27	1.11
2:A4:978:ASP:CA	6:D3:476:VAL:HG23	1.70	1.11
2:A4:1055:ARG:HD3	6:D4:762:ARG:HB3	1.21	1.11
3:A5:232:LEU:CA	5:C2:737:LYS:O	1.88	1.11
9:G1:262:SER:O	16:N2:411:GLN:CD	1.94	1.11
11:I1:846:ILE:HG12	15:M1:591:ASP:HA	1.18	1.11
11:I1:921:GLU:CB	15:M1:596:ILE:HD11	1.70	1.11
11:I1:927:HIS:NE2	15:M1:594:LYS:CG	2.14	1.11
11:I1:952:LEU:CA	16:N1:400:LEU:HD22	1.80	1.11
11:I1:981:VAL:HG12	20:R1:151:LYS:HB2	1.17	1.11
11:I1:1023:ASP:CB	16:N1:405:ALA:HB1	1.81	1.11
11:I1:1037:THR:HG23	20:R1:169:GLY:C	1.74	1.11
11:I1:1052:LEU:HB3	16:N1:438:LEU:CD1	1.57	1.11
11:I1:1114:VAL:HG23	16:N1:436:ALA:N	1.49	1.11
11:I1:1669:ARG:NH2	11:I2:1610:VAL:CG1	2.13	1.11
11:I2:911:PRO:HB2	15:M3:584:GLN:NE2	1.48	1.11
11:I2:966:TRP:HA	20:R3:154:ALA:N	1.66	1.11
11:I2:1034:ASP:O	16:N3:441:PHE:CD2	2.04	1.11
11:I3:1271:GLU:CB	26:X1:525:ILE:CG2	2.18	1.11
11:I4:1274:HIS:CB	26:X3:525:ILE:HG22	1.80	1.11
11:I5:1279:THR:HG23	26:X2:520:GLU:HB2	1.29	1.11
17:O2:110:LEU:CD2	18:P2:321:ILE:C	2.06	1.11
17:O3:151:LEU:CG	18:P3:325:ILE:CG1	2.11	1.11
28:Z1:555:LYS:C	30:b1:212:PHE:CA	2.24	1.11
28:Z2:526:ARG:N	30:b2:208:ASN:OD1	1.83	1.11
28:Z3:534:ASP:OD2	30:b3:183:LEU:HB2	0.94	1.11
28:Z4:555:LYS:C	30:b4:212:PHE:HA	1.65	1.11
2:A2:1139:ILE:HG23	3:A5:131:PRO:HB2	1.32	1.10
2:A2:1158:ALA:N	3:A5:175:GLU:CA	2.14	1.10
2:A4:781:ARG:NH2	6:D3:633:LYS:HD2	1.66	1.10
2:A4:827:ILE:HD12	2:A4:859:GLN:HB2	1.23	1.10
2:A4:864:ARG:HG2	6:D3:605:THR:O	1.37	1.10
2:A4:876:ARG:CD	6:D3:558:LYS:CA	1.74	1.10
3:A5:164:LEU:HB3	5:C2:744:PHE:CG	1.67	1.10
3:A6:1364:GLN:H	28:Z4:872:TYR:CB	1.64	1.10
9:G1:258:LYS:H	17:O2:253:LEU:HA	1.01	1.10
11:I1:849:LEU:CD1	17:O1:247:TRP:CE3	2.33	1.10
11:I1:882:LYS:N	17:O1:249:ARG:HB2	1.42	1.10
11:I1:1037:THR:CG2	20:R1:169:GLY:CA	2.15	1.10
11:I1:1041:GLN:HB2	15:M1:620:VAL:HG23	1.21	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1667:GLN:HG3	11:I2:1661:GLY:O	1.28	1.10
28:Z1:531:LYS:CD	30:b1:182:PRO:O	1.99	1.10
28:Z3:524:VAL:CG2	30:b3:236:THR:O	1.81	1.10
1:A1:868:GLN:O	6:D3:277:ASN:CB	1.99	1.10
1:A1:1396:GLY:HA2	2:A2:888:GLN:HB2	1.32	1.10
2:A2:878:LEU:HD12	6:D1:608:ILE:HG23	1.13	1.10
2:A2:982:THR:HG22	6:D1:493:ALA:C	1.76	1.10
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ3	1.11	1.10
2:A4:976:LEU:CD1	6:D3:472:PHE:HE2	1.64	1.10
3:A5:233:THR:HG21	5:C2:737:LYS:HD2	1.24	1.10
3:A5:1091:VAL:HG12	11:I5:36:GLU:CD	1.58	1.10
3:A5:1312:ARG:NH2	28:Z2:832:PHE:CB	2.12	1.10
3:A5:1369:ILE:HG22	28:Z2:830:LEU:CB	1.78	1.10
3:A5:1391:ARG:HA	28:Z2:871:HIS:CA	1.81	1.10
3:A6:221:SER:HB3	5:C4:738:ASP:CG	1.76	1.10
6:D7:530:ARG:HG2	11:I3:181:GLN:HB2	1.27	1.10
8:F1:1093:LEU:HD11	17:O2:240:GLY:C	1.76	1.10
8:F2:1088:GLU:OE1	17:O4:247:TRP:O	1.65	1.10
11:I1:920:PHE:HE1	17:O1:247:TRP:CD1	1.63	1.10
11:I1:922:ASP:N	15:M1:592:LEU:CB	2.13	1.10
11:I1:955:LYS:CE	16:N1:397:GLU:HA	1.80	1.10
11:I1:1020:ALA:CA	16:N1:405:ALA:O	0.80	1.10
11:I1:1109:LEU:HG	16:N1:438:LEU:HA	1.12	1.10
11:I2:884:LEU:HD11	15:M3:599:ILE:CD1	1.80	1.10
11:I2:900:ARG:CA	17:O3:232:LYS:CD	2.27	1.10
11:I2:920:PHE:O	15:M3:592:LEU:C	1.94	1.10
11:I2:1043:LEU:HD13	16:N3:430:ARG:O	1.49	1.10
11:I2:1059:PRO:CA	17:O3:273:ASP:O	1.99	1.10
11:I2:1066:LEU:C	16:N3:430:ARG:HG2	1.62	1.10
11:I4:1274:HIS:CE1	26:X3:529:TRP:HB2	1.85	1.10
17:O4:112:GLY:CA	18:P1:278:ASN:HB2	1.82	1.10
28:Z1:524:VAL:HG13	30:b1:236:THR:HB	1.32	1.10
28:Z1:524:VAL:CG1	30:b1:236:THR:CB	2.12	1.10
28:Z2:534:ASP:OD2	30:b2:183:LEU:HB2	0.94	1.10
28:Z4:406:ARG:HG3	30:b4:252:ALA:CB	1.81	1.10
28:Z4:521:SER:C	30:b4:238:ASN:HB3	1.77	1.10
1:A1:1222:ALA:CB	2:A2:615:LEU:CD1	2.28	1.10
1:A3:1098:ARG:CD	11:I2:1414:CYS:HB2	1.82	1.10
1:A3:1399:ARG:NH1	2:A4:888:GLN:HA	1.08	1.10
2:A4:779:ASP:O	6:D3:674:TYR:HA	1.51	1.10
2:A4:865:ALA:CA	6:D3:567:LEU:HD22	1.79	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1364:GLN:O	28:Z4:845:ILE:O	1.68	1.10
11:I1:849:LEU:HD22	17:O1:251:ILE:HD11	1.29	1.10
11:I1:884:LEU:CD2	17:O1:246:LEU:CD1	2.30	1.10
11:I1:885:GLU:HA	16:N1:397:GLU:CD	1.75	1.10
11:I1:950:LEU:CB	16:N1:407:ALA:H	1.49	1.10
11:I1:965:ALA:H	20:R1:165:SER:HB3	1.14	1.10
11:I1:976:ARG:N	20:R1:149:ARG:CD	2.13	1.10
11:I1:980:ILE:CD1	15:M1:622:VAL:N	2.14	1.10
11:I1:986:ASN:N	15:M1:613:ASP:N	1.75	1.10
11:I1:990:GLU:CG	17:O1:275:LEU:CD2	2.26	1.10
11:I1:1114:VAL:HG23	16:N1:435:ALA:C	1.76	1.10
11:I2:840:LEU:O	15:M3:591:ASP:OD2	1.70	1.10
11:I2:884:LEU:HD11	15:M3:599:ILE:HD11	1.29	1.10
11:I2:949:CYS:SG	15:M3:602:MET:CE	2.39	1.10
11:I2:1046:HIS:N	15:M3:619:ILE:HD11	1.65	1.10
11:I3:1267:LEU:HG	26:X1:529:TRP:CD2	1.87	1.10
11:I5:1279:THR:HG21	26:X2:520:GLU:C	1.74	1.10
28:Z1:555:LYS:HE2	30:b1:216:LEU:HD22	1.24	1.10
28:Z2:521:SER:C	30:b2:238:ASN:HB3	1.77	1.10
28:Z3:531:LYS:CD	30:b3:182:PRO:O	1.99	1.10
2:A2:873:PRO:O	6:D1:563:GLU:CB	1.99	1.10
2:A2:1158:ALA:N	3:A5:175:GLU:HA	1.40	1.10
1:A3:1048:ARG:CZ	6:D3:790:ARG:HH22	1.65	1.10
2:A4:870:HIS:O	6:D3:551:PHE:CD2	2.02	1.10
2:A4:909:LYS:HD2	6:D3:555:ARG:NH2	1.66	1.10
2:A4:1151:THR:HG21	5:C4:734:VAL:CB	1.81	1.10
3:A5:233:THR:HG22	5:C2:737:LYS:CD	1.80	1.10
3:A5:1365:VAL:CG2	28:Z2:838:GLN:O	2.00	1.10
3:A6:1355:VAL:HA	28:Z4:877:ILE:CB	1.80	1.10
9:G1:263:MET:HA	16:N2:411:GLN:HB3	1.25	1.10
11:I1:853:ILE:HG23	17:O1:254:ARG:CD	1.82	1.10
11:I1:883:ALA:HB1	17:O1:243:LEU:HA	1.31	1.10
11:I1:917:TYR:CE1	15:M1:586:ASP:O	2.05	1.10
11:I1:920:PHE:CZ	17:O1:247:TRP:CE2	2.40	1.10
11:I1:921:GLU:HB3	15:M1:596:ILE:HD11	1.15	1.10
11:I1:947:LEU:CA	16:N1:407:ALA:CB	2.30	1.10
11:I1:1029:LEU:HD12	20:R1:171:ALA:HA	1.23	1.10
11:I2:890:TYR:CB	17:O3:238:ALA:O	2.00	1.10
11:I2:898:VAL:HG23	17:O3:236:ASP:HA	1.22	1.10
11:I2:955:LYS:HZ2	17:O3:249:ARG:NH2	1.46	1.10
11:I2:962:ILE:HD13	15:M3:596:ILE:CG2	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1017:VAL:C	16:N3:409:ALA:O	1.94	1.10
11:I2:1048:GLU:O	17:O3:287:LEU:CG	1.99	1.10
11:I2:1054:ILE:C	17:O3:281:ALA:H	1.59	1.10
28:Z1:406:ARG:HG3	30:b1:252:ALA:CB	1.81	1.10
28:Z2:530:LYS:HB3	30:b2:204:GLU:OE1	1.51	1.10
28:Z4:535:ILE:HG13	30:b4:182:PRO:CB	1.75	1.10
28:Z4:557:CYS:HA	30:b4:210:ARG:CA	1.80	1.10
2:A2:970:PHE:O	6:D1:202:GLN:CG	2.00	1.10
2:A2:982:THR:HG23	6:D1:497:PHE:N	0.88	1.10
2:A2:1127:ALA:C	3:A5:140:ALA:CB	2.23	1.10
1:A3:1052:THR:CB	6:D3:813:GLN:C	2.02	1.10
2:A4:780:GLU:CD	6:D3:679:ILE:CG2	2.25	1.10
2:A4:1131:ILE:CD1	3:A6:160:ILE:HB	1.82	1.10
2:A4:1149:THR:HG23	3:A6:173:ASN:H	1.07	1.10
11:I1:884:LEU:HD23	17:O1:246:LEU:CD1	1.79	1.10
11:I1:887:GLN:HB2	16:N1:393:ILE:HD13	1.23	1.10
11:I1:894:VAL:HG21	17:O1:238:ALA:CA	1.80	1.10
11:I1:976:ARG:N	20:R1:149:ARG:HD3	1.65	1.10
11:I2:887:GLN:HE21	16:N3:393:ILE:C	1.60	1.10
11:I2:928:LEU:CD1	20:R3:151:LYS:HE2	1.80	1.10
11:I2:954:GLU:HB3	16:N3:403:VAL:HA	1.14	1.10
11:I2:985:ARG:C	15:M3:613:ASP:CB	1.90	1.10
17:O4:110:LEU:HB3	18:P4:321:ILE:CB	1.82	1.10
28:Z3:406:ARG:HG3	30:b3:252:ALA:CB	1.81	1.10
28:Z4:534:ASP:OD2	30:b4:183:LEU:HB2	0.94	1.10
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD13	1.86	1.09
2:A2:200:VAL:N	4:B2:352:ALA:O	1.84	1.09
2:A2:879:LEU:CG	6:D1:567:LEU:HD11	1.80	1.09
1:A3:1052:THR:HB	6:D3:813:GLN:O	0.92	1.09
2:A4:780:GLU:CD	6:D3:679:ILE:HG23	1.77	1.09
2:A4:868:GLN:CB	6:D3:570:VAL:CB	2.25	1.09
3:A5:1029:ILE:HA	11:I5:69:GLY:O	1.51	1.09
3:A6:1391:ARG:HD3	28:Z4:868:GLN:CB	1.82	1.09
6:D7:528:PHE:C	11:I3:181:GLN:NE2	2.10	1.09
11:I1:874:LEU:HD21	17:O1:252:VAL:HG13	1.25	1.09
11:I1:924:ILE:CG1	15:M1:596:ILE:HG13	1.81	1.09
11:I2:887:GLN:NE2	16:N3:396:ILE:HB	1.65	1.09
11:I2:976:ARG:CZ	20:R3:143:PHE:O	1.99	1.09
11:I2:980:ILE:C	20:R3:147:LEU:HD11	1.69	1.09
11:I2:1040:HIS:N	20:R3:170:LEU:HD21	1.67	1.09
11:I5:536:GLU:CA	25:W2:8:HIS:N	2.15	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:112:GLY:O	18:P4:325:ILE:HG21	1.50	1.09
21:S1:1032:ILE:HD11	21:S1:1054:LEU:HB2	1.26	1.09
21:S4:1032:ILE:HD11	21:S4:1054:LEU:HB2	1.26	1.09
28:Z1:541:PRO:HD2	30:b1:180:GLY:HA3	1.21	1.09
28:Z2:531:LYS:CD	30:b2:182:PRO:O	1.99	1.09
28:Z2:535:ILE:HG13	30:b2:182:PRO:HB2	1.13	1.09
2:A2:869:ALA:HB3	6:D1:574:VAL:HG23	1.19	1.09
2:A2:981:PRO:HG2	6:D1:504:LYS:HG3	1.12	1.09
2:A2:1139:ILE:HA	3:A5:131:PRO:CD	1.74	1.09
2:A4:978:ASP:CB	6:D3:476:VAL:HG23	1.72	1.09
2:A4:1156:ASP:O	3:A6:176:LEU:HD22	1.31	1.09
3:A5:1026:PRO:HG3	11:I5:73:TYR:CD1	1.67	1.09
3:A5:1094:ILE:CG1	11:I5:4:LEU:HD12	1.82	1.09
3:A6:1351:MSE:CE	28:Z4:912:ASP:O	0.80	1.09
9:G1:258:LYS:N	17:O2:253:LEU:HA	1.53	1.09
11:I1:942:HIS:H	17:O1:259:ASP:C	1.60	1.09
11:I1:992:ILE:N	15:M1:608:LYS:HG3	1.60	1.09
11:I1:1635:HIS:CE1	11:I2:1677:LYS:HD2	1.85	1.09
11:I2:947:LEU:CD1	17:O3:260:LEU:HD22	1.81	1.09
11:I2:983:LEU:HD23	15:M3:617:THR:HB	1.26	1.09
11:I2:1034:ASP:C	16:N3:441:PHE:CE2	2.26	1.09
11:I2:1059:PRO:CB	17:O3:274:GLY:C	2.25	1.09
11:I2:1609:GLY:O	12:J1:295:TYR:OH	1.68	1.09
11:I3:1278:ALA:N	26:X1:519:ILE:CG2	1.93	1.09
11:I4:1267:LEU:O	26:X3:528:GLU:CG	2.00	1.09
17:O4:107:THR:HG22	18:P4:321:ILE:HD12	1.22	1.09
28:Z4:522:ASN:N	30:b4:241:PRO:HG3	1.53	1.09
28:Z4:530:LYS:HB3	30:b4:204:GLU:OE1	1.51	1.09
28:Z4:531:LYS:CD	30:b4:182:PRO:O	1.99	1.09
1:A1:1098:ARG:HH22	11:I1:1478:VAL:HG12	1.15	1.09
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG12	1.70	1.09
2:A2:1157:TYR:CD2	3:A5:174:PRO:C	2.30	1.09
2:A2:1157:TYR:CD2	3:A5:174:PRO:O	2.05	1.09
1:A3:1048:ARG:NH1	6:D3:819:ASN:ND2	1.97	1.09
1:A3:1399:ARG:HH12	2:A4:888:GLN:CA	1.54	1.09
2:A4:868:GLN:CD	6:D3:608:ILE:HD12	1.75	1.09
2:A4:974:PRO:C	6:D3:499:LEU:HG	1.75	1.09
2:A4:983:LEU:HB2	6:D3:528:PHE:CE1	1.88	1.09
2:A4:1148:ARG:NH2	3:A6:174:PRO:HG2	1.65	1.09
3:A5:232:LEU:HD13	5:C2:740:ARG:HB2	1.28	1.09
3:A5:996:ASN:ND2	11:I5:54:LYS:O	1.84	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1323:VAL:CG1	28:Z4:912:ASP:CA	2.30	1.09
3:A6:1359:LEU:CD2	28:Z4:873:LEU:CB	2.29	1.09
8:F2:1088:GLU:OE1	17:O4:247:TRP:C	1.79	1.09
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CE2	2.19	1.09
11:I2:797:LEU:HD22	17:O3:245:GLU:HG3	1.16	1.09
11:I2:828:VAL:HG12	17:O3:237:PRO:HG2	1.34	1.09
11:I2:880:MET:O	17:O3:246:LEU:HD23	1.51	1.09
11:I2:886:LEU:HD12	17:O3:245:GLU:HB3	1.24	1.09
11:I2:949:CYS:SG	17:O3:258:GLU:N	2.24	1.09
11:I2:966:TRP:O	20:R3:153:GLN:HB3	1.50	1.09
11:I3:1270:LYS:CE	26:X1:530:ARG:CG	2.24	1.09
11:I4:1274:HIS:C	26:X3:522:MET:O	1.95	1.09
11:I5:1273:GLU:O	26:X2:521:TRP:HA	1.51	1.09
28:Z1:394:ASP:CG	30:b1:241:PRO:HA	1.78	1.09
28:Z1:555:LYS:C	30:b1:212:PHE:HA	1.65	1.09
28:Z2:555:LYS:C	30:b2:212:PHE:CA	2.23	1.09
28:Z3:521:SER:C	30:b3:238:ASN:HB3	1.77	1.09
28:Z3:528:ILE:HG12	30:b3:210:ARG:NH1	1.51	1.09
28:Z4:524:VAL:CG2	30:b4:236:THR:O	1.81	1.09
1:A1:874:VAL:HG22	6:D3:272:VAL:CG1	1.81	1.09
1:A1:1223:GLU:HG2	2:A2:734:LEU:HD21	1.34	1.09
1:A3:1201:ARG:HA	2:A4:731:ILE:O	1.25	1.09
1:A3:1223:GLU:HG2	2:A4:734:LEU:CD1	1.77	1.09
2:A4:864:ARG:O	6:D3:608:ILE:CG1	2.00	1.09
2:A4:871:ASN:OD1	6:D3:573:LEU:N	1.85	1.09
2:A4:976:LEU:HD22	6:D3:472:PHE:HD2	1.12	1.09
2:A4:985:ALA:O	6:D3:500:LYS:HD3	0.91	1.09
2:A4:1131:ILE:O	3:A6:141:GLY:HA2	1.44	1.09
3:A5:999:SER:OG	11:I5:63:PRO:CD	2.00	1.09
3:A5:1054:SER:HB3	11:I5:38:GLN:OE1	1.34	1.09
3:A6:166:LEU:HD11	5:C4:741:THR:C	1.77	1.09
3:A6:1388:ALA:CA	28:Z4:866:GLU:H	1.65	1.09
8:F1:1261:TYR:CD2	17:O2:259:ASP:C	2.29	1.09
11:I1:950:LEU:HD11	16:N1:410:MET:HB3	1.28	1.09
11:I1:965:ALA:CB	20:R1:163:LEU:O	2.00	1.09
11:I2:881:ILE:HG22	17:O3:249:ARG:HG2	1.18	1.09
11:I2:885:GLU:HA	16:N3:397:GLU:HG2	1.28	1.09
11:I2:950:LEU:HD22	16:N3:406:HIS:NE2	1.65	1.09
11:I2:967:SER:N	20:R3:153:GLN:CD	2.08	1.09
11:I2:977:ASN:HB3	20:R3:147:LEU:HA	1.11	1.09
11:I3:1271:GLU:N	26:X1:529:TRP:H	1.50	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1275:SER:OG	26:X1:522:MET:HA	1.51	1.09
15:M3:483:LYS:NZ	16:N4:327:LYS:HE3	1.68	1.09
28:Z1:521:SER:C	30:b1:238:ASN:HB3	1.77	1.09
28:Z1:522:ASN:N	30:b1:241:PRO:HG3	1.53	1.09
28:Z2:406:ARG:HG3	30:b2:252:ALA:CB	1.81	1.09
28:Z3:402:GLY:HA2	30:b3:273:LYS:HB2	1.24	1.09
28:Z3:528:ILE:H	30:b3:208:ASN:ND2	1.44	1.09
28:Z4:535:ILE:HG13	30:b4:182:PRO:HB2	1.13	1.09
28:Z4:558:LEU:HA	30:b4:236:THR:N	1.56	1.09
2:A2:1159:ASP:HB3	3:A5:175:GLU:OE2	1.45	1.09
1:A3:1198:GLU:C	2:A4:729:SER:O	1.95	1.09
2:A4:866:SER:O	6:D3:598:ILE:HG12	1.50	1.09
2:A4:976:LEU:HD21	6:D3:245:ARG:NH1	1.67	1.09
2:A4:1149:THR:N	5:C4:730:HIS:N	1.85	1.09
3:A5:1029:ILE:HG23	11:I5:70:GLU:N	0.77	1.09
3:A5:1098:ARG:CD	11:I5:29:GLN:NE2	2.15	1.09
3:A6:1384:ALA:O	28:Z4:864:PHE:N	1.84	1.09
3:A6:1387:ILE:O	28:Z4:867:LYS:N	1.86	1.09
8:F2:1049:GLN:HE22	17:O4:237:PRO:CB	1.66	1.09
11:I1:1037:THR:CB	15:M1:624:ASN:ND2	2.15	1.09
11:I1:1066:LEU:H	16:N1:430:ARG:CG	1.66	1.09
11:I2:997:SER:OG	16:N3:427:VAL:CG2	2.01	1.09
11:I4:774:LYS:C	29:a4:40[A]:GLU:OE2	1.94	1.09
11:I4:1270:LYS:HE2	26:X3:530:ARG:CG	1.82	1.09
18:P1:280:THR:N	18:P4:322:LYS:HD3	1.68	1.09
28:Z2:394:ASP:CG	30:b2:241:PRO:HA	1.77	1.09
28:Z2:523:ASP:CB	30:b2:238:ASN:HA	1.12	1.09
28:Z3:523:ASP:CB	30:b3:238:ASN:HA	1.13	1.09
1:A1:870:HIS:CB	6:D3:279:HIS:CB	2.31	1.08
2:A2:1151:THR:HG21	5:C2:734:VAL:CB	1.81	1.08
2:A4:200:VAL:N	4:B4:352:ALA:O	1.84	1.08
2:A4:867:GLU:CG	6:D3:605:THR:CG2	2.24	1.08
2:A4:909:LYS:HG3	6:D3:552:TYR:CD2	1.85	1.08
2:A4:983:LEU:CD2	6:D3:497:PHE:CZ	2.34	1.08
2:A4:1136:LYS:HE2	3:A6:140:ALA:N	1.59	1.08
2:A4:1148:ARG:NH2	3:A6:174:PRO:CG	2.16	1.08
2:A4:1151:THR:HG23	5:C4:734:VAL:H	1.04	1.08
3:A5:207:LEU:HD11	5:C2:742:ASP:OD1	1.30	1.08
3:A5:232:LEU:CD1	5:C2:740:ARG:HB2	1.71	1.08
3:A5:1050:TYR:OH	11:I5:70:GLU:HB2	1.53	1.08
3:A6:1363:ASP:HA	28:Z4:868:GLN:O	1.52	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:HD12	15:M1:594:LYS:HD2	1.34	1.08
11:I1:946:THR:CA	17:O1:257:ALA:HA	1.82	1.08
11:I1:992:ILE:H	15:M1:608:LYS:HG3	1.10	1.08
11:I1:1040:HIS:CD2	16:N1:437:VAL:CG2	2.19	1.08
11:I1:1108:PRO:CB	16:N1:443:GLU:N	2.14	1.08
11:I2:920:PHE:HA	15:M3:592:LEU:HA	1.32	1.08
11:I2:947:LEU:HD12	17:O3:260:LEU:HD22	1.13	1.08
11:I2:1017:VAL:CG2	16:N3:411:GLN:CA	1.85	1.08
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD11	1.10	1.08
28:Z2:554:PHE:CG	30:b2:233:TRP:O	2.06	1.08
28:Z3:554:PHE:CG	30:b3:233:TRP:O	2.06	1.08
28:Z4:554:PHE:CG	30:b4:233:TRP:O	2.06	1.08
1:A1:835:THR:N	6:D3:302:PRO:HB2	1.68	1.08
2:A2:869:ALA:CB	6:D1:574:VAL:CG2	2.22	1.08
2:A2:874:VAL:HG21	6:D1:571:SER:HB3	1.31	1.08
2:A2:982:THR:HG22	6:D1:493:ALA:O	0.93	1.08
1:A3:1086:LYS:HB3	6:D3:798:MET:HA	1.26	1.08
1:A3:1226:LEU:HA	2:A4:728:LYS:HB2	1.29	1.08
2:A4:975:GLU:HA	6:D3:499:LEU:HB2	1.23	1.08
3:A5:527:GLU:OE2	5:C2:748:ASN:C	1.96	1.08
9:G1:254:ASN:ND2	15:M2:605:THR:O	1.73	1.08
11:I1:914:ASN:CB	15:M1:588:MET:H	1.65	1.08
11:I1:952:LEU:CA	16:N1:400:LEU:HD23	1.81	1.08
11:I1:1071:LEU:H	16:N1:429:GLU:HG3	1.14	1.08
11:I2:850:ILE:HG23	15:M3:598:GLU:OE2	0.91	1.08
11:I2:880:MET:O	17:O3:246:LEU:O	1.69	1.08
11:I2:890:TYR:N	17:O3:242:ARG:CG	2.09	1.08
11:I2:1046:HIS:H	17:O3:280:GLU:CA	1.66	1.08
11:I2:1046:HIS:H	17:O3:280:GLU:HA	1.03	1.08
11:I2:1065:SER:HB2	17:O3:274:GLY:O	1.51	1.08
11:I2:1100:ILE:O	16:N3:433:GLU:OE2	1.70	1.08
11:I3:1277:LEU:HB2	26:X1:522:MET:H	1.11	1.08
17:O4:107:THR:CA	18:P4:318:PRO:HG3	1.83	1.08
28:Z1:411:LEU:H	30:b1:251:ILE:CD1	1.49	1.08
28:Z1:530:LYS:HB3	30:b1:204:GLU:OE1	1.51	1.08
28:Z1:557:CYS:CB	30:b1:210:ARG:NH1	2.05	1.08
28:Z4:524:VAL:HG13	30:b4:236:THR:HB	1.32	1.08
1:A1:1200:ARG:N	2:A2:729:SER:CB	2.06	1.08
2:A2:874:VAL:HG22	6:D1:611:LYS:HG2	1.26	1.08
1:A3:1091:VAL:HG21	6:D3:808:ASN:N	1.68	1.08
1:A3:1202:GLU:C	2:A4:732:GLN:HA	1.65	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:967:GLU:C	6:D3:202:GLN:CB	2.13	1.08
2:A4:1133:GLU:CA	3:A6:145:THR:OG1	2.02	1.08
2:A4:1151:THR:CA	5:C4:733:LEU:HA	1.67	1.08
3:A5:1033:GLN:HE21	11:I5:70:GLU:CB	1.29	1.08
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CA	1.83	1.08
3:A6:180:GLU:CA	5:C4:744:PHE:CZ	2.35	1.08
3:A6:189:VAL:HG23	5:C4:745:SER:HB3	1.18	1.08
3:A6:1302:THR:C	28:Z4:838:GLN:N	2.02	1.08
3:A6:1302:THR:O	28:Z4:838:GLN:N	1.86	1.08
9:G1:255:LEU:H	15:M2:602:MET:HA	1.15	1.08
11:I1:853:ILE:CG2	17:O1:254:ARG:CD	2.31	1.08
11:I1:874:LEU:O	17:O1:252:VAL:N	1.84	1.08
11:I1:1021:ILE:HG12	16:N1:410:MET:HE3	1.31	1.08
11:I1:1546:TRP:HB3	12:J2:300:ILE:HD13	1.30	1.08
11:I1:1611:PHE:CE2	11:I2:1669:ARG:NH1	2.21	1.08
11:I2:850:ILE:HG22	15:M3:598:GLU:CG	1.83	1.08
11:I2:895:ARG:NH2	16:N3:386:MET:SD	2.27	1.08
11:I2:966:TRP:HA	20:R3:154:ALA:H	0.93	1.08
11:I2:978:LYS:HZ1	20:R3:155:GLU:N	1.37	1.08
11:I2:1046:HIS:CB	17:O3:280:GLU:C	2.24	1.08
11:I3:1275:SER:CB	26:X1:522:MET:CB	2.30	1.08
17:O3:101:ASN:HB3	18:P3:326:GLN:NE2	1.28	1.08
28:Z2:555:LYS:C	30:b2:212:PHE:HA	1.65	1.08
2:A2:980:ARG:CZ	6:D1:525:ARG:CB	2.30	1.08
2:A2:989:MSE:HE1	6:D1:240:ASP:CA	1.58	1.08
2:A2:1136:LYS:HE3	3:A5:160:ILE:HG12	1.36	1.08
1:A3:1048:ARG:O	6:D3:816:VAL:HG23	1.43	1.08
2:A4:868:GLN:HB3	6:D3:570:VAL:HB	1.25	1.08
2:A4:879:LEU:H	6:D3:567:LEU:HD12	0.96	1.08
2:A4:970:PHE:HA	6:D3:192:TYR:OH	1.54	1.08
2:A4:975:GLU:CB	6:D3:499:LEU:HB2	1.84	1.08
2:A4:985:ALA:HA	6:D3:500:LYS:H	1.00	1.08
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD11	1.28	1.08
3:A5:1405:LEU:N	28:Z2:918:PHE:N	1.76	1.08
3:A5:1406:GLY:H	28:Z2:918:PHE:CA	1.66	1.08
3:A6:146:LYS:HD3	5:C4:746:PRO:HA	1.14	1.08
3:A6:1365:VAL:HG22	28:Z4:845:ILE:CB	1.84	1.08
3:A6:1401:VAL:HG13	28:Z4:919:PHE:CA	1.83	1.08
5:C1:732:LYS:HZ2	11:I1:1225:LYS:CD	1.67	1.08
8:F1:1203:TRP:HZ2	17:O2:248:SER:HB2	1.06	1.08
8:F2:1049:GLN:NE2	17:O4:237:PRO:CB	2.17	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:853:ILE:HG23	17:O1:254:ARG:HD3	1.11	1.08
11:I1:935:GLY:N	15:M1:605:THR:OG1	1.85	1.08
11:I1:956:ILE:CA	20:R1:166:LEU:HD22	1.84	1.08
11:I1:1063:GLN:O	16:N1:428:ASP:HB2	1.53	1.08
11:I2:837:MET:SD	17:O3:244:GLU:N	2.27	1.08
11:I2:1105:TRP:CB	16:N3:439:ARG:HH21	1.61	1.08
11:I2:1109:LEU:CG	17:O3:290:TYR:CE2	2.36	1.08
28:Z4:523:ASP:OD1	30:b4:240:LEU:N	1.86	1.08
1:A3:1223:GLU:HG3	2:A4:734:LEU:CD1	1.79	1.08
2:A4:907:SER:O	6:D3:552:TYR:CZ	2.05	1.08
2:A4:976:LEU:HD13	6:D3:472:PHE:CD2	1.88	1.08
2:A4:1126:VAL:HA	3:A6:139:ASN:N	1.31	1.08
3:A5:1050:TYR:OH	11:I5:70:GLU:CB	1.99	1.08
3:A5:1411:ARG:NH2	26:X2:743:PHE:O	1.86	1.08
3:A6:1362:ALA:O	28:Z4:868:GLN:O	1.72	1.08
3:A6:1387:ILE:O	28:Z4:866:GLU:CA	2.01	1.08
4:B6:345:LYS:H	5:C4:737:LYS:CE	1.67	1.08
8:F1:1262:HIS:CD2	17:O2:259:ASP:OD1	2.07	1.08
11:I1:950:LEU:C	16:N1:403:VAL:HG13	1.78	1.08
11:I1:952:LEU:O	16:N1:403:VAL:HG21	1.53	1.08
11:I1:953:LEU:O	16:N1:399:HIS:CE1	2.07	1.08
11:I2:889:THR:CB	17:O3:242:ARG:HD3	1.59	1.08
11:I2:896:PRO:CA	17:O3:232:LYS:O	2.02	1.08
11:I2:948:ALA:HB1	17:O3:253:LEU:HA	1.23	1.08
11:I2:951:LYS:HE3	16:N3:400:LEU:C	1.76	1.08
11:I2:958:THR:N	16:N3:399:HIS:CD2	2.21	1.08
11:I2:980:ILE:HD11	20:R3:147:LEU:HB2	1.30	1.08
28:Z3:522:ASN:N	30:b3:241:PRO:CG	2.02	1.08
28:Z3:523:ASP:OD1	30:b3:240:LEU:N	1.86	1.08
28:Z3:524:VAL:HG13	30:b3:236:THR:HB	1.32	1.08
28:Z3:535:ILE:HG13	30:b3:182:PRO:HB2	1.13	1.08
1:A1:870:HIS:CA	6:D3:279:HIS:HB3	1.84	1.07
2:A2:973:GLU:CD	6:D1:205:LEU:CD1	2.23	1.07
2:A2:1151:THR:HG21	5:C2:734:VAL:HB	1.10	1.07
2:A4:827:ILE:HA	6:D3:606:LYS:HB3	1.27	1.07
3:A5:993:ASN:CA	11:I5:57:GLU:CG	2.27	1.07
3:A5:1026:PRO:HB3	11:I5:73:TYR:CE1	1.89	1.07
3:A6:165:PHE:CD2	5:C4:743:LEU:HD22	1.84	1.07
3:A6:1326:TRP:HB3	28:Z4:911:GLU:O	1.50	1.07
9:G1:250:THR:CA	15:M2:605:THR:HG21	1.84	1.07
11:I1:846:ILE:CD1	15:M1:594:LYS:HB2	1.76	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:877:ILE:HG22	17:O1:253:LEU:H	0.96	1.07
11:I1:919:ALA:HB3	16:N1:392:THR:OG1	1.52	1.07
11:I1:990:GLU:HG3	17:O1:275:LEU:HD23	1.12	1.07
11:I1:1037:THR:HB	20:R1:173:LEU:HD22	1.11	1.07
11:I1:1667:GLN:CD	11:I2:1665:LEU:HB2	1.79	1.07
11:I1:1669:ARG:HD2	11:I2:1605:LEU:CD1	1.82	1.07
11:I2:985:ARG:N	15:M3:613:ASP:HA	1.15	1.07
11:I2:1018:LYS:H	16:N3:413:VAL:N	1.51	1.07
11:I2:1024:PHE:CB	16:N3:406:HIS:CE1	2.23	1.07
11:I2:1052:LEU:HD21	16:N3:434:LEU:HD11	1.35	1.07
11:I3:815:ILE:HG23	26:X1:497:ARG:N	1.67	1.07
11:I3:1267:LEU:CG	26:X1:529:TRP:CE3	2.36	1.07
11:I4:1275:SER:HB3	26:X3:521:TRP:O	1.53	1.07
11:I5:1275:SER:C	26:X2:521:TRP:CD1	2.33	1.07
17:O1:104:ASP:OD2	18:P1:322:LYS:CE	2.02	1.07
28:Z1:410:ASN:C	30:b1:251:ILE:HD13	1.79	1.07
28:Z2:402:GLY:HA2	30:b2:273:LYS:HB2	1.24	1.07
28:Z3:555:LYS:C	30:b3:212:PHE:CA	2.24	1.07
1:A1:868:GLN:CA	6:D3:280:GLN:CG	2.25	1.07
1:A1:1224:PRO:CD	2:A2:731:ILE:CD1	2.13	1.07
1:A1:1396:GLY:HA2	2:A2:888:GLN:CB	1.61	1.07
2:A2:976:LEU:HB3	6:D1:496:LEU:HD22	1.25	1.07
2:A2:979:GLY:HA2	6:D1:472:PHE:HB3	1.33	1.07
2:A2:980:ARG:NH1	6:D1:525:ARG:CA	2.16	1.07
2:A2:1133:GLU:HA	3:A5:138:LEU:HD23	1.12	1.07
1:A3:1052:THR:CG2	6:D3:812:VAL:O	2.02	1.07
1:A3:1054:SER:CA	6:D3:809:ALA:HB1	1.84	1.07
1:A3:1223:GLU:HB2	2:A4:676:LEU:HD11	1.28	1.07
2:A4:1122:LEU:CA	3:A6:132:ASP:O	2.01	1.07
2:A4:1134:GLU:CB	3:A6:146:LYS:HA	1.83	1.07
2:A4:1151:THR:CG2	5:C4:734:VAL:N	2.04	1.07
2:A4:1161:ALA:HB2	3:A6:165:PHE:CZ	1.89	1.07
3:A6:234:LEU:H	5:C4:737:LYS:CB	1.67	1.07
3:A6:1364:GLN:HA	28:Z4:849:ALA:HB3	1.13	1.07
11:I1:797:LEU:CD2	17:O1:245:GLU:HG3	1.85	1.07
11:I1:880:MET:CG	17:O1:247:TRP:O	2.02	1.07
11:I1:1018:LYS:HE2	16:N1:413:VAL:HG13	1.33	1.07
11:I1:1026:TYR:CG	20:R1:175:GLN:NE2	2.21	1.07
11:I1:1043:LEU:CA	16:N1:430:ARG:HB2	1.84	1.07
11:I1:1049:LEU:HB2	20:R1:146:LEU:HD13	1.23	1.07
11:I1:1104:LEU:O	16:N1:436:ALA:O	1.72	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:833:PHE:O	17:O3:241:SER:HA	1.54	1.07
11:I2:1037:THR:CG2	20:R3:169:GLY:CA	2.32	1.07
11:I3:1267:LEU:HD12	26:X1:529:TRP:HA	1.33	1.07
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB2	1.80	1.07
15:M1:507:GLN:CD	18:P1:318:PRO:HG2	1.78	1.07
28:Z3:394:ASP:CG	30:b3:241:PRO:HA	1.78	1.07
2:A2:225:THR:HG22	6:D1:709:ARG:H	1.18	1.07
2:A2:779:ASP:HA	6:D1:675:ARG:HA	1.15	1.07
2:A2:866:SER:HB3	6:D1:602:THR:C	1.78	1.07
2:A2:1141:GLU:H	3:A5:130:ILE:HB	1.07	1.07
2:A2:1149:THR:OG1	3:A5:172:PRO:HG2	1.55	1.07
2:A2:1149:THR:CG2	3:A5:172:PRO:HG3	1.85	1.07
1:A3:1203:TYR:CB	2:A4:732:GLN:CD	2.11	1.07
2:A4:780:GLU:OE2	6:D3:679:ILE:HD13	0.89	1.07
2:A4:868:GLN:O	6:D3:598:ILE:CB	2.02	1.07
2:A4:973:GLU:N	6:D3:205:LEU:H	1.50	1.07
3:A6:1310:ARG:N	28:Z4:827:GLN:HA	1.69	1.07
3:A6:1351:MSE:CE	28:Z4:912:ASP:C	1.95	1.07
3:A6:1413:SER:O	28:Z4:963:LYS:CB	2.01	1.07
8:F1:1261:TYR:CE1	17:O2:263:GLN:HB3	1.87	1.07
11:I1:980:ILE:HD13	15:M1:622:VAL:N	1.25	1.07
11:I1:1015:TYR:CG	16:N1:412:ASN:ND2	1.81	1.07
11:I1:1659:VAL:O	11:I2:1663:LYS:NZ	1.88	1.07
11:I2:887:GLN:C	16:N3:393:ILE:CG2	2.20	1.07
11:I2:948:ALA:HB3	17:O3:257:ALA:H	1.15	1.07
11:I2:956:ILE:HG23	15:M3:600:ASN:OD1	1.46	1.07
11:I2:990:GLU:HB3	17:O3:272:SER:HA	1.09	1.07
11:I2:1028:CYS:C	20:R3:173:LEU:N	1.99	1.07
11:I2:1040:HIS:HB2	15:M3:619:ILE:HG22	1.28	1.07
11:I4:1273:GLU:O	26:X3:522:MET:O	1.73	1.07
17:O3:102:LYS:CB	18:P3:322:LYS:CE	2.30	1.07
28:Z4:394:ASP:CG	30:b4:241:PRO:HA	1.78	1.07
28:Z4:534:ASP:HA	30:b4:164:CYS:HB2	1.21	1.07
1:A1:1201:ARG:O	2:A2:731:ILE:O	1.71	1.07
1:A1:1204:TRP:NE1	2:A2:645:PHE:HE1	1.49	1.07
2:A2:876:ARG:HD3	6:D1:558:LYS:HA	1.28	1.07
2:A2:980:ARG:HA	6:D1:503:LEU:H	1.18	1.07
1:A3:1084:ARG:HG2	6:D3:794:THR:HA	1.18	1.07
2:A4:199:PHE:HA	4:B4:353:LEU:HA	1.36	1.07
2:A4:874:VAL:HB	6:D3:567:LEU:O	1.27	1.07
2:A4:908:LEU:CA	6:D3:552:TYR:CE1	2.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1129:PRO:O	3:A6:142:GLU:CG	2.02	1.07
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB2	1.10	1.07
3:A5:1376:LEU:C	28:Z2:811:LEU:O	1.92	1.07
3:A6:230:LYS:CB	5:C4:739:MET:CE	2.32	1.07
5:C1:732:LYS:NZ	11:I1:1225:LYS:CD	2.18	1.07
8:F2:1091:SER:H	17:O4:245:GLU:CA	1.66	1.07
9:G1:255:LEU:C	15:M2:602:MET:HB3	1.80	1.07
11:I1:846:ILE:HD13	15:M1:594:LYS:HB2	1.12	1.07
11:I1:945:LEU:HD23	17:O1:258:GLU:C	1.78	1.07
11:I1:1055:GLU:HB3	17:O1:280:GLU:HB2	1.31	1.07
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB3	1.17	1.07
11:I1:1610:VAL:HG22	11:I2:1673:VAL:HG11	1.31	1.07
11:I2:1038:ILE:HD11	15:M3:621:ARG:HG3	1.32	1.07
28:Z1:556:ASN:HA	30:b1:212:PHE:HB2	1.37	1.07
1:A1:870:HIS:O	6:D3:279:HIS:CB	2.02	1.07
2:A2:238:ARG:NH1	4:B2:349:MET:SD	2.28	1.07
2:A2:986:THR:HG22	6:D1:504:LYS:HD3	1.34	1.07
2:A2:1142:PHE:CG	3:A5:128:HIS:C	2.18	1.07
2:A4:1151:THR:CG2	5:C4:734:VAL:H	1.43	1.07
3:A5:1398:LYS:HD2	28:Z2:873:LEU:O	1.50	1.07
3:A6:230:LYS:HB2	5:C4:739:MET:HE1	1.16	1.07
11:I1:923:GLY:CA	15:M1:590:LYS:C	2.28	1.07
11:I1:923:GLY:H	15:M1:592:LEU:CB	1.27	1.07
11:I1:930:LEU:CB	15:M1:597:LYS:O	2.03	1.07
11:I2:894:VAL:CB	17:O3:239:GLN:N	1.80	1.07
11:I2:948:ALA:HB3	17:O3:257:ALA:N	1.67	1.07
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG11	1.69	1.07
11:I2:1101:LEU:HD22	16:N3:432:TYR:CD1	1.69	1.07
11:I3:1270:LYS:NZ	26:X1:530:ARG:HG2	1.69	1.07
11:I4:1274:HIS:CE1	26:X3:529:TRP:C	2.33	1.07
28:Z1:523:ASP:OD2	30:b1:239:THR:OG1	1.72	1.07
28:Z1:526:ARG:C	30:b1:206:ASN:ND2	2.13	1.07
28:Z3:526:ARG:C	30:b3:206:ASN:ND2	2.13	1.07
2:A2:869:ALA:HB3	6:D1:570:VAL:O	1.55	1.06
2:A4:868:GLN:HA	6:D3:570:VAL:HG11	1.36	1.06
2:A4:870:HIS:CG	6:D3:566:PHE:CE1	2.43	1.06
2:A4:879:LEU:N	6:D3:567:LEU:CD1	2.17	1.06
2:A4:1135:ARG:NH1	3:A6:157:TRP:C	2.13	1.06
3:A5:993:ASN:CA	11:I5:57:GLU:HG2	1.86	1.06
3:A5:1368:GLN:HE22	28:Z2:840:PHE:CB	1.68	1.06
3:A5:1406:GLY:H	28:Z2:917:ASP:C	1.62	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1323:VAL:HG13	28:Z4:912:ASP:HA	1.07	1.06
9:G1:254:ASN:ND2	17:O2:261:LYS:HD2	1.69	1.06
11:I1:914:ASN:CB	15:M1:588:MET:N	2.18	1.06
11:I1:951:LYS:O	16:N1:400:LEU:O	1.73	1.06
11:I1:985:ARG:N	15:M1:612:PRO:O	1.87	1.06
11:I1:1055:GLU:N	17:O1:278:GLU:C	1.89	1.06
11:I1:1056:PRO:C	17:O1:277:GLU:O	1.97	1.06
11:I2:899:LEU:CD1	17:O3:234:LEU:H	1.67	1.06
11:I2:900:ARG:HA	17:O3:232:LYS:HE2	1.33	1.06
11:I2:911:PRO:HB2	15:M3:584:GLN:HE21	0.90	1.06
11:I2:955:LYS:HB2	16:N3:400:LEU:HD23	1.32	1.06
11:I2:1051:LYS:HZ3	17:O3:285:LYS:HD2	1.05	1.06
28:Z1:522:ASN:HB3	30:b1:240:LEU:HB3	1.37	1.06
28:Z2:526:ARG:C	30:b2:206:ASN:ND2	2.13	1.06
2:A2:224:PRO:HD2	6:D1:709:ARG:HH12	1.14	1.06
2:A2:981:PRO:CG	6:D1:504:LYS:HG3	1.83	1.06
2:A4:876:ARG:CD	6:D3:565:MET:HG2	1.84	1.06
2:A4:1131:ILE:O	3:A6:141:GLY:HA3	1.51	1.06
2:A4:1138:GLU:CA	3:A6:147:LEU:HD11	1.59	1.06
2:A4:1148:ARG:NH1	3:A6:131:PRO:CG	2.12	1.06
2:A4:1155:ASN:N	3:A6:175:GLU:C	2.13	1.06
3:A6:230:LYS:HB2	5:C4:739:MET:HE2	1.18	1.06
3:A6:1355:VAL:HA	28:Z4:877:ILE:CA	1.84	1.06
11:I1:797:LEU:HB3	17:O1:245:GLU:HG2	1.32	1.06
11:I1:884:LEU:HD23	17:O1:246:LEU:HD13	1.34	1.06
11:I1:950:LEU:HB2	16:N1:407:ALA:HB2	1.21	1.06
11:I1:1021:ILE:CD1	16:N1:410:MET:HG3	1.82	1.06
11:I2:881:ILE:O	17:O3:249:ARG:CD	1.98	1.06
11:I2:883:ALA:HB1	17:O3:243:LEU:O	1.55	1.06
11:I2:884:LEU:CD2	15:M3:595:MET:SD	2.44	1.06
11:I2:891:LEU:HA	17:O3:239:GLN:HB3	1.36	1.06
11:I2:966:TRP:O	20:R3:150:ASN:C	1.97	1.06
11:I2:967:SER:HB2	15:M3:625:GLY:HA3	1.11	1.06
11:I2:1020:ALA:O	16:N3:406:HIS:HA	1.48	1.06
11:I2:1051:LYS:HB2	17:O3:288:GLU:N	1.50	1.06
17:O2:110:LEU:HD23	18:P2:321:ILE:O	1.54	1.06
17:O3:147:ALA:HB1	18:P3:328:PRO:HB2	1.12	1.06
28:Z1:521:SER:OG	30:b1:238:ASN:N	1.88	1.06
1:A1:832:ASN:OD1	6:D3:298:ASN:CB	2.02	1.06
1:A1:874:VAL:HG21	6:D3:272:VAL:HG12	1.10	1.06
1:A1:1226:LEU:H	2:A2:725:GLU:CG	1.65	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:238:ARG:NH1	4:B4:349:MET:SD	2.28	1.06
2:A4:827:ILE:CA	2:A4:860:GLU:HA	1.63	1.06
2:A4:867:GLU:HB2	6:D3:605:THR:HB	1.36	1.06
2:A4:871:ASN:HB3	6:D3:568:ARG:O	1.43	1.06
2:A4:875:LEU:O	6:D3:567:LEU:HG	1.48	1.06
3:A5:1310:ARG:HH21	28:Z2:827:GLN:HA	1.17	1.06
3:A6:1362:ALA:CB	28:Z4:870:ILE:O	2.02	1.06
9:G1:266:ASP:N	16:N2:411:GLN:OE1	1.89	1.06
11:I1:873:ILE:O	17:O1:251:ILE:HG22	1.54	1.06
11:I1:919:ALA:HB1	16:N1:389:PHE:O	1.55	1.06
11:I1:959:SER:HB3	20:R1:166:LEU:HD21	1.32	1.06
11:I1:1037:THR:O	15:M1:620:VAL:HA	1.55	1.06
11:I1:1056:PRO:CA	17:O1:278:GLU:CG	2.22	1.06
11:I1:1114:VAL:HG21	16:N1:436:ALA:H	0.98	1.06
11:I2:850:ILE:HG22	15:M3:598:GLU:HG2	1.31	1.06
11:I2:923:GLY:HA3	15:M3:591:ASP:C	1.80	1.06
11:I2:936:LYS:HA	15:M3:609:GLY:HA3	1.37	1.06
11:I2:952:LEU:CD2	15:M3:602:MET:HG3	1.84	1.06
11:I2:1607:GLN:O	12:J1:298:PHE:CD1	1.80	1.06
11:I3:1270:LYS:HB2	26:X1:529:TRP:N	1.69	1.06
11:I4:1279:THR:OG1	26:X3:523:LEU:HB3	1.56	1.06
17:O3:158:GLU:O	18:P3:315:GLU:OE1	1.73	1.06
28:Z2:410:ASN:C	30:b2:251:ILE:HD13	1.79	1.06
28:Z2:521:SER:OG	30:b2:238:ASN:N	1.88	1.06
28:Z2:523:ASP:OD2	30:b2:239:THR:OG1	1.72	1.06
28:Z2:555:LYS:CA	30:b2:212:PHE:HA	1.85	1.06
28:Z2:557:CYS:HA	30:b2:210:ARG:CA	1.80	1.06
28:Z3:530:LYS:HB3	30:b3:204:GLU:OE1	1.51	1.06
28:Z4:410:ASN:C	30:b4:251:ILE:HD13	1.79	1.06
28:Z4:555:LYS:C	30:b4:212:PHE:CA	2.24	1.06
28:Z4:555:LYS:CA	30:b4:212:PHE:HA	1.85	1.06
1:A1:1222:ALA:CB	2:A2:615:LEU:HD12	1.83	1.06
2:A2:1131:ILE:CB	3:A5:137:HIS:HB3	1.86	1.06
2:A2:1156:ASP:OD1	3:A5:168:ASP:HB3	0.88	1.06
2:A4:864:ARG:O	6:D3:608:ILE:HG12	1.55	1.06
2:A4:1135:ARG:HB2	3:A6:159:SER:O	1.54	1.06
2:A4:1156:ASP:HB2	3:A6:176:LEU:HD23	1.08	1.06
3:A5:1098:ARG:HD3	11:I5:29:GLN:HE21	1.21	1.06
3:A6:234:LEU:CG	5:C4:737:LYS:O	2.04	1.06
3:A6:1401:VAL:HG22	28:Z4:919:PHE:CB	1.86	1.06
8:F1:1266:MET:HG3	17:O2:262:ASP:CG	1.80	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:931:VAL:HG11	15:M1:604:ASN:OD1	1.53	1.06
11:I1:1017:VAL:N	16:N1:411:GLN:CG	2.18	1.06
11:I1:1029:LEU:CB	20:R1:174:ARG:HB2	1.85	1.06
11:I1:1052:LEU:HD11	15:M1:623:LEU:CD1	1.86	1.06
11:I2:931:VAL:O	15:M3:605:THR:HG23	1.54	1.06
11:I2:950:LEU:HD21	16:N3:410:MET:HE1	1.12	1.06
11:I2:953:LEU:HD12	15:M3:606:LEU:HB3	1.30	1.06
11:I2:954:GLU:N	16:N3:403:VAL:HG22	1.68	1.06
28:Z1:554:PHE:CG	30:b1:233:TRP:O	2.06	1.06
28:Z2:407:GLY:HA2	30:b2:251:ILE:HG13	1.38	1.06
2:A2:1164:TYR:CG	4:B5:342:ARG:HG2	1.91	1.06
2:A4:989:MSE:HE1	6:D3:242:LEU:H	1.17	1.06
3:A5:165:PHE:N	5:C2:743:LEU:O	1.89	1.06
3:A6:1416:ARG:HG3	28:Z4:966:CYS:CB	1.85	1.06
9:G2:256:GLN:NE2	17:O4:263:GLN:H	1.52	1.06
11:I1:931:VAL:HG22	15:M1:604:ASN:CB	1.86	1.06
11:I1:1027:ALA:CB	20:R1:172:ASP:OD1	2.02	1.06
11:I1:1053:GLY:O	17:O1:283:ALA:HB3	1.48	1.06
11:I1:1114:VAL:CG2	16:N1:435:ALA:HB3	1.86	1.06
11:I1:1604:ALA:HA	11:I2:1739:GLU:C	1.80	1.06
11:I2:980:ILE:CD1	20:R3:147:LEU:CB	2.31	1.06
11:I2:1029:LEU:HD13	16:N3:433:GLU:CD	1.74	1.06
11:I2:1030:ARG:C	20:R3:172:ASP:O	1.97	1.06
28:Z2:524:VAL:HG13	30:b2:236:THR:HB	1.32	1.06
28:Z3:523:ASP:OD2	30:b3:239:THR:OG1	1.72	1.06
28:Z4:526:ARG:C	30:b4:206:ASN:ND2	2.13	1.06
1:A1:1200:ARG:H	2:A2:729:SER:CB	1.66	1.05
1:A1:1399:ARG:HH21	2:A2:885:LEU:CA	1.67	1.05
2:A2:870:HIS:NE2	6:D1:551:PHE:HB3	1.70	1.05
2:A4:172:PRO:HB3	6:D3:781:ARG:HD3	1.11	1.05
2:A4:870:HIS:CB	6:D3:566:PHE:CE1	2.38	1.05
2:A4:873:PRO:HG3	6:D3:572:GLU:CD	1.81	1.05
2:A4:974:PRO:CA	6:D3:499:LEU:CD1	2.33	1.05
2:A4:982:THR:CA	6:D3:493:ALA:O	2.04	1.05
2:A4:1139:ILE:N	3:A6:138:LEU:HD12	1.61	1.05
2:A4:1158:ALA:C	4:B6:342:ARG:N	2.13	1.05
3:A5:1369:ILE:CG1	28:Z2:832:PHE:H	1.69	1.05
3:A6:156:ALA:C	5:C4:741:THR:HG21	1.80	1.05
3:A6:166:LEU:CD1	5:C4:741:THR:C	2.26	1.05
3:A6:233:THR:OG1	5:C4:738:ASP:OD1	1.72	1.05
9:G1:258:LYS:HZ3	16:N2:408:MET:CA	1.68	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:CG2	17:O1:247:TRP:HZ2	1.51	1.05
11:I1:884:LEU:HD21	16:N1:396:ILE:HG21	1.06	1.05
11:I1:919:ALA:O	15:M1:592:LEU:HD22	1.53	1.05
11:I2:880:MET:SD	17:O3:250:LEU:HD23	1.96	1.05
11:I2:895:ARG:CZ	16:N3:386:MET:CG	2.34	1.05
11:I2:948:ALA:CB	17:O3:253:LEU:HA	1.85	1.05
11:I2:963:LEU:HD23	20:R3:168:LEU:CD1	1.85	1.05
11:I2:1109:LEU:CB	16:N3:438:LEU:HA	1.62	1.05
11:I2:1186:PRO:HG2	17:O4:221:ASP:OD1	1.41	1.05
17:O4:109:PRO:HB2	18:P4:318:PRO:HB2	1.38	1.05
28:Z1:407:GLY:HA2	30:b1:251:ILE:HG13	1.38	1.05
28:Z1:523:ASP:OD1	30:b1:240:LEU:N	1.86	1.05
28:Z1:555:LYS:CA	30:b1:212:PHE:HA	1.85	1.05
28:Z2:523:ASP:OD1	30:b2:240:LEU:N	1.86	1.05
28:Z2:557:CYS:CB	30:b2:210:ARG:NH1	2.05	1.05
28:Z3:407:GLY:HA2	30:b3:251:ILE:HG13	1.38	1.05
28:Z3:410:ASN:C	30:b3:251:ILE:HD13	1.79	1.05
28:Z3:557:CYS:HA	30:b3:210:ARG:CA	1.80	1.05
28:Z4:521:SER:OG	30:b4:238:ASN:N	1.88	1.05
1:A1:1204:TRP:CZ3	2:A2:734:LEU:CD1	2.39	1.05
2:A2:864:ARG:CZ	6:D1:610:ASN:HD21	1.67	1.05
2:A2:971:ALA:O	6:D1:203:PRO:CG	2.02	1.05
2:A2:989:MSE:HE2	6:D1:240:ASP:HA	1.38	1.05
2:A2:1121:LEU:HA	3:A5:133:LYS:CG	1.82	1.05
1:A3:1098:ARG:CB	11:I2:1414:CYS:SG	2.44	1.05
1:A3:1233:GLN:NE2	2:A4:726:ALA:CB	2.16	1.05
1:A3:1233:GLN:CD	2:A4:726:ALA:HB2	1.81	1.05
2:A4:868:GLN:NE2	6:D3:608:ILE:CB	2.19	1.05
2:A4:908:LEU:CD2	6:D3:601:PHE:C	2.29	1.05
2:A4:975:GLU:CB	6:D3:501:LEU:HB2	1.86	1.05
2:A4:1139:ILE:O	3:A6:135:PHE:CD2	2.09	1.05
3:A6:232:LEU:HD23	5:C4:737:LYS:C	1.80	1.05
3:A6:1362:ALA:CB	28:Z4:873:LEU:N	2.14	1.05
3:A6:1375:THR:HB	28:Z4:818:PRO:HA	1.36	1.05
3:A6:1394:VAL:HG11	28:Z4:869:HIS:C	1.81	1.05
9:G1:258:LYS:HB2	17:O2:253:LEU:HD21	1.30	1.05
11:I1:833:PHE:CZ	17:O1:241:SER:HB3	1.65	1.05
11:I1:1663:LYS:NZ	11:I2:1659:VAL:O	1.87	1.05
11:I1:1669:ARG:N	11:I2:1664:PHE:CE2	2.21	1.05
11:I2:890:TYR:HB3	17:O3:242:ARG:HB2	1.07	1.05
11:I2:945:LEU:H	17:O3:259:ASP:HB3	1.16	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1015:TYR:CB	16:N3:412:ASN:OD1	2.05	1.05
11:I2:1021:ILE:HG12	16:N3:410:MET:HE3	1.32	1.05
17:O4:112:GLY:HA3	18:P1:278:ASN:HB2	1.06	1.05
28:Z1:524:VAL:CA	30:b1:236:THR:CG2	2.33	1.05
2:A2:980:ARG:NH2	6:D1:503:LEU:HB3	1.66	1.05
2:A2:988:ARG:CB	6:D1:500:LYS:HZ1	1.56	1.05
2:A2:1139:ILE:HG23	3:A5:131:PRO:CB	1.76	1.05
2:A2:1142:PHE:CG	3:A5:128:HIS:O	2.09	1.05
1:A3:1021:LEU:HD12	6:D3:816:VAL:O	1.52	1.05
2:A4:909:LYS:CG	6:D3:555:ARG:NH1	2.09	1.05
3:A6:1351:MSE:HE3	28:Z4:912:ASP:O	1.34	1.05
4:B6:345:LYS:N	5:C4:737:LYS:CE	2.19	1.05
9:G1:254:ASN:O	15:M2:606:LEU:CB	2.04	1.05
11:I1:976:ARG:HH12	15:M1:622:VAL:CA	1.68	1.05
11:I1:1104:LEU:CD2	16:N1:433:GLU:HG3	1.85	1.05
11:I2:1101:LEU:HD22	16:N3:432:TYR:CG	1.90	1.05
11:I2:1104:LEU:HD23	16:N3:437:VAL:HG23	1.37	1.05
11:I3:816:ASP:HA	26:X1:498:SER:CB	1.85	1.05
28:Z1:557:CYS:HA	30:b1:210:ARG:CA	1.80	1.05
28:Z2:557:CYS:HA	30:b2:210:ARG:HA	1.37	1.05
28:Z4:522:ASN:HB3	30:b4:240:LEU:HB3	1.37	1.05
28:Z4:523:ASP:OD2	30:b4:239:THR:OG1	1.73	1.05
1:A1:874:VAL:HG21	6:D3:272:VAL:CG1	1.78	1.05
2:A2:827:ILE:O	2:A2:863:GLN:CG	2.00	1.05
2:A2:1135:ARG:HH12	3:A5:156:ALA:HB3	1.21	1.05
2:A2:1155:ASN:C	3:A5:175:GLU:CG	2.28	1.05
1:A3:1017:THR:HG22	6:D3:819:ASN:HB3	1.06	1.05
2:A4:908:LEU:O	6:D3:555:ARG:CB	2.04	1.05
2:A4:975:GLU:CB	6:D3:501:LEU:CB	2.33	1.05
2:A4:975:GLU:CB	6:D3:499:LEU:CB	2.35	1.05
3:A6:1395:LYS:CG	28:Z4:889:LEU:O	2.05	1.05
8:F1:1138:TRP:CG	17:O2:244:GLU:HG2	1.90	1.05
9:G1:254:ASN:HD21	17:O2:261:LYS:CE	1.68	1.05
11:I1:880:MET:HG3	17:O1:247:TRP:C	1.79	1.05
11:I1:920:PHE:HB2	17:O1:243:LEU:HD22	1.36	1.05
11:I1:935:GLY:N	15:M1:602:MET:O	1.87	1.05
11:I1:945:LEU:HG	17:O1:258:GLU:N	1.72	1.05
11:I1:1039:ALA:H	20:R1:169:GLY:HA3	0.89	1.05
11:I1:1540:LYS:HE2	11:I2:1739:GLU:CB	1.85	1.05
11:I1:1667:GLN:C	11:I2:1664:PHE:HD2	1.33	1.05
11:I2:880:MET:HA	17:O3:247:TRP:HA	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:921:GLU:N	15:M3:592:LEU:CG	2.03	1.05
11:I2:958:THR:CB	16:N3:399:HIS:CD2	2.39	1.05
11:I2:984:GLU:OE2	15:M3:618:GLN:HB2	1.49	1.05
11:I2:984:GLU:CD	15:M3:615:PRO:HA	1.80	1.05
11:I2:1110:SER:HB2	16:N3:438:LEU:H	1.20	1.05
28:Z1:554:PHE:CD2	30:b1:233:TRP:C	2.13	1.05
28:Z4:524:VAL:CA	30:b4:236:THR:CG2	2.33	1.05
1:A1:1202:GLU:N	2:A2:729:SER:O	1.90	1.05
2:A2:781:ARG:NE	6:D1:673:ARG:NH1	2.05	1.05
2:A2:1156:ASP:N	3:A5:175:GLU:H	1.53	1.05
2:A4:875:LEU:HD13	6:D3:567:LEU:HD23	1.10	1.05
2:A4:909:LYS:O	6:D3:555:ARG:CG	1.97	1.05
3:A5:996:ASN:HD22	11:I5:58:ALA:HB3	0.89	1.05
3:A5:1026:PRO:C	11:I5:68:ILE:H	1.51	1.05
3:A5:1391:ARG:HB3	28:Z2:871:HIS:H	1.18	1.05
8:F1:1261:TYR:CD2	17:O2:259:ASP:O	2.10	1.05
11:I1:840:LEU:HB2	17:O1:243:LEU:HB2	1.38	1.05
11:I1:923:GLY:HA2	15:M1:590:LYS:O	1.56	1.05
11:I1:956:ILE:CG2	20:R1:166:LEU:CB	2.35	1.05
11:I2:890:TYR:CD1	17:O3:241:SER:N	2.09	1.05
11:I2:952:LEU:HD23	15:M3:602:MET:HG3	1.34	1.05
11:I2:965:ALA:HB2	20:R3:164:PRO:HA	1.35	1.05
11:I2:992:ILE:CG2	15:M3:607:SER:O	2.03	1.05
11:I2:1020:ALA:HB1	16:N3:407:ALA:CA	1.73	1.05
11:I2:1032:THR:HB	20:R3:173:LEU:CD1	1.87	1.05
11:I2:1046:HIS:N	17:O3:280:GLU:HA	1.71	1.05
11:I4:1275:SER:HB3	26:X3:525:ILE:HG13	1.39	1.05
28:Z3:521:SER:OG	30:b3:238:ASN:N	1.88	1.05
28:Z4:555:LYS:CE	30:b4:216:LEU:CD2	2.25	1.05
2:A2:911:TYR:OH	6:D1:196:ILE:HG21	1.57	1.04
2:A2:980:ARG:NH1	6:D1:525:ARG:HG3	1.66	1.04
2:A2:983:LEU:HB3	6:D1:553:PHE:HB3	1.05	1.04
2:A2:983:LEU:HB2	6:D1:528:PHE:CE1	1.93	1.04
2:A2:1137:ALA:HB3	3:A5:147:LEU:HD11	1.34	1.04
2:A4:984:ALA:HA	6:D3:498:GLU:OE2	1.52	1.04
8:F1:1138:TRP:CG	17:O2:244:GLU:CG	2.40	1.04
11:I1:797:LEU:HD13	17:O1:245:GLU:HA	1.37	1.04
11:I1:977:ASN:O	20:R1:147:LEU:O	1.73	1.04
11:I1:1036:PRO:O	15:M1:624:ASN:HA	1.57	1.04
11:I2:899:LEU:HD23	17:O3:235:ASN:CB	1.86	1.04
11:I2:944:GLU:CA	17:O3:256:TYR:CE1	2.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1035:GLN:HA	15:M3:626:HIS:HB2	1.36	1.04
11:I2:1053:GLY:CA	17:O3:281:ALA:C	2.17	1.04
17:O3:158:GLU:CG	18:P3:316:LEU:H	1.56	1.04
28:Z2:524:VAL:O	30:b2:208:ASN:CG	1.99	1.04
28:Z3:438:GLU:OE1	30:b3:333:HIS:CE1	2.10	1.04
28:Z3:555:LYS:CA	30:b3:212:PHE:HA	1.85	1.04
28:Z4:410:ASN:CA	30:b4:251:ILE:CD1	2.15	1.04
28:Z4:535:ILE:HG12	30:b4:182:PRO:HB3	1.39	1.04
1:A1:868:GLN:HA	6:D3:280:GLN:HG2	1.29	1.04
2:A2:868:GLN:N	6:D1:598:ILE:HG21	1.70	1.04
2:A2:1121:LEU:HA	3:A5:133:LYS:CD	1.87	1.04
2:A4:777:LEU:C	6:D3:678:GLY:CA	2.24	1.04
2:A4:827:ILE:O	2:A4:863:GLN:CG	2.00	1.04
2:A4:869:ALA:HB1	6:D3:573:LEU:HD23	1.39	1.04
2:A4:985:ALA:CB	6:D3:500:LYS:N	2.20	1.04
2:A4:1133:GLU:C	3:A6:145:THR:OG1	0.82	1.04
3:A5:155:TYR:CE1	5:C2:739:MET:O	1.99	1.04
3:A5:179:TYR:O	5:C2:744:PHE:CD1	1.72	1.04
3:A6:177:ILE:HG12	5:C4:740:ARG:HH11	1.17	1.04
3:A6:1350:VAL:CG2	28:Z4:917:ASP:CB	2.33	1.04
6:D7:530:ARG:C	11:I3:181:GLN:HB2	1.80	1.04
8:F1:1264:ARG:O	17:O2:265:ASN:CB	2.04	1.04
11:I1:836:VAL:HG12	17:O1:244:GLU:CB	1.85	1.04
11:I1:1026:TYR:CE1	20:R1:175:GLN:OE1	2.10	1.04
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CE1	1.70	1.04
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG12	1.72	1.04
11:I2:890:TYR:HA	17:O3:238:ALA:C	1.76	1.04
11:I2:925:LEU:O	20:R3:155:GLU:HA	1.57	1.04
11:I2:931:VAL:HB	15:M3:600:ASN:C	1.82	1.04
11:I2:1029:LEU:HD11	16:N3:433:GLU:HG2	1.06	1.04
11:I4:1275:SER:HB2	26:X3:525:ILE:HD12	1.35	1.04
17:O4:107:THR:HA	18:P4:318:PRO:HG3	1.37	1.04
28:Z1:524:VAL:O	30:b1:208:ASN:CG	2.00	1.04
28:Z3:524:VAL:O	30:b3:208:ASN:CG	2.00	1.04
28:Z3:556:ASN:HA	30:b3:212:PHE:HB2	1.37	1.04
28:Z4:528:ILE:HG12	30:b4:210:ARG:NH1	1.51	1.04
2:A2:878:LEU:HD12	6:D1:608:ILE:CG2	1.84	1.04
2:A2:989:MSE:CG	6:D1:500:LYS:CD	1.79	1.04
2:A2:1152:ASP:CB	3:A5:173:ASN:N	2.08	1.04
1:A3:1204:TRP:HB2	2:A4:731:ILE:HG23	1.10	1.04
1:A3:1221:ILE:CD1	2:A4:641:ALA:O	2.05	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:976:LEU:HD21	6:D3:245:ARG:HH11	1.13	1.04
2:A4:1134:GLU:HB3	3:A6:146:LYS:HA	1.38	1.04
3:A5:1392:ARG:NH1	28:Z2:867:LYS:N	2.04	1.04
3:A5:1395:LYS:CG	28:Z2:873:LEU:CB	2.35	1.04
3:A5:1406:GLY:N	28:Z2:918:PHE:HA	1.73	1.04
3:A6:1331:GLU:OE1	28:Z4:952:ASN:O	1.75	1.04
6:D7:534:LEU:CD1	11:I3:181:GLN:O	2.02	1.04
8:F1:1261:TYR:CG	17:O2:263:GLN:HB2	1.93	1.04
11:I1:840:LEU:HG	17:O1:244:GLU:HG2	1.09	1.04
11:I1:840:LEU:CG	17:O1:244:GLU:HG3	1.71	1.04
11:I1:880:MET:HG2	17:O1:247:TRP:HA	1.06	1.04
11:I1:992:ILE:N	15:M1:608:LYS:CG	2.11	1.04
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD22	1.06	1.04
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD11	1.39	1.04
11:I1:1066:LEU:HB3	16:N1:430:ARG:HD3	1.27	1.04
11:I2:833:PHE:CZ	17:O3:241:SER:C	2.35	1.04
11:I2:881:ILE:HG23	17:O3:249:ARG:NH2	1.71	1.04
11:I2:978:LYS:HZ2	20:R3:155:GLU:CA	1.70	1.04
11:I2:1043:LEU:H	15:M3:616:LEU:HD11	1.19	1.04
11:I2:1058:GLY:HA3	17:O3:277:GLU:N	1.55	1.04
11:I4:1279:THR:OG1	26:X3:523:LEU:CB	2.05	1.04
17:O2:111:TYR:N	18:P2:325:ILE:HG21	1.72	1.04
17:O3:102:LYS:CG	18:P3:322:LYS:HZ1	1.71	1.04
28:Z1:438:GLU:OE1	30:b1:333:HIS:CE1	2.10	1.04
28:Z1:522:ASN:N	30:b1:241:PRO:CG	2.02	1.04
28:Z4:524:VAL:O	30:b4:208:ASN:CG	1.99	1.04
2:A2:781:ARG:CD	6:D1:673:ARG:HB3	1.88	1.04
2:A2:973:GLU:CB	6:D1:205:LEU:HD22	1.81	1.04
2:A2:1121:LEU:HA	3:A5:133:LYS:HD2	1.38	1.04
2:A2:1141:GLU:N	3:A5:130:ILE:HB	1.72	1.04
1:A3:1021:LEU:CD2	6:D3:816:VAL:HG13	1.87	1.04
2:A4:231:SER:CB	6:D3:709:ARG:NH2	2.20	1.04
2:A4:824:ASN:OD1	2:A4:859:GLN:OE1	1.75	1.04
3:A5:1020:ILE:O	11:I5:95:LYS:CE	2.05	1.04
3:A5:1024:ASP:OD1	11:I5:96:GLU:C	1.92	1.04
3:A5:1090:SER:O	11:I5:36:GLU:CG	2.06	1.04
3:A5:1363:ASP:HB2	28:Z2:871:HIS:O	1.52	1.04
3:A6:232:LEU:HD22	5:C4:740:ARG:HG2	1.06	1.04
3:A6:1312:ARG:CG	28:Z4:830:LEU:HA	1.86	1.04
8:F1:1137:GLN:HG2	17:O2:248:SER:C	1.47	1.04
8:F1:1205:TRP:CG	17:O2:254:ARG:CD	2.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1090:PRO:HG3	17:O4:245:GLU:CD	1.82	1.04
11:I1:890:TYR:CZ	17:O1:240:GLY:N	1.99	1.04
11:I1:940:LEU:C	17:O1:259:ASP:O	2.00	1.04
11:I1:946:THR:HA	17:O1:257:ALA:CA	1.87	1.04
11:I1:946:THR:O	16:N1:407:ALA:HB1	1.58	1.04
11:I1:951:LYS:O	16:N1:400:LEU:HA	1.57	1.04
11:I1:956:ILE:HG23	20:R1:166:LEU:CB	1.88	1.04
11:I1:1046:HIS:CB	17:O1:280:GLU:O	2.04	1.04
11:I1:1071:LEU:N	16:N1:429:GLU:CG	2.20	1.04
11:I2:890:TYR:HB2	17:O3:238:ALA:O	1.58	1.04
11:I2:976:ARG:HH12	15:M3:622:VAL:HG22	0.91	1.04
11:I2:977:ASN:CG	15:M3:621:ARG:HB3	1.82	1.04
11:I2:984:GLU:OE2	15:M3:615:PRO:HA	0.86	1.04
17:O3:155:VAL:CG2	18:P3:321:ILE:CG2	2.35	1.04
28:Z2:438:GLU:OE1	30:b2:333:HIS:CE1	2.10	1.04
2:A2:199:PHE:HA	4:B2:353:LEU:HA	1.36	1.04
2:A2:823:VAL:CA	2:A2:856:PHE:CE1	1.98	1.04
2:A2:827:ILE:HA	2:A2:860:GLU:HA	1.05	1.04
2:A2:1131:ILE:CG1	3:A5:137:HIS:CG	2.40	1.04
2:A4:879:LEU:HD12	6:D3:564:ASN:ND2	1.71	1.04
2:A4:880:ALA:HB3	6:D3:562:GLY:O	1.56	1.04
2:A4:1135:ARG:HG2	3:A6:160:ILE:CD1	1.88	1.04
3:A5:1369:ILE:CD1	28:Z2:833:ASP:H	1.70	1.04
3:A5:1406:GLY:H	28:Z2:918:PHE:N	1.55	1.04
3:A6:155:TYR:CE1	5:C4:739:MET:CE	2.39	1.04
3:A6:157:TRP:CZ2	5:C4:747:PRO:HA	1.93	1.04
3:A6:166:LEU:HB2	5:C4:740:ARG:CB	1.88	1.04
3:A6:1327:VAL:HG21	28:Z4:912:ASP:CB	1.79	1.04
9:G1:263:MET:HA	16:N2:411:GLN:HB2	1.09	1.04
11:I1:874:LEU:C	17:O1:252:VAL:HA	1.82	1.04
11:I1:877:ILE:HB	17:O1:252:VAL:CA	1.88	1.04
11:I1:923:GLY:N	15:M1:589:GLY:O	1.91	1.04
11:I1:986:ASN:H	15:M1:612:PRO:C	1.66	1.04
11:I1:1021:ILE:HD12	16:N1:410:MET:CA	1.85	1.04
11:I1:1667:GLN:HE21	11:I2:1665:LEU:CD1	1.71	1.04
11:I1:1667:GLN:HE21	11:I2:1665:LEU:HD12	0.91	1.04
11:I2:899:LEU:HG	17:O3:235:ASN:H	0.91	1.04
11:I2:1069:SER:H	16:N3:428:ASP:N	1.50	1.04
11:I4:775:ASP:N	29:a4:40[A]:GLU:OE2	1.89	1.04
11:I4:1275:SER:O	26:X3:522:MET:HG2	1.25	1.04
18:P1:280:THR:H	18:P4:322:LYS:HD3	0.96	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:522:ASN:H	30:b1:241:PRO:HG2	1.23	1.04
28:Z2:535:ILE:HG12	30:b2:182:PRO:HB3	1.39	1.04
28:Z4:438:GLU:OE1	30:b4:333:HIS:CE1	2.10	1.04
2:A2:970:PHE:CA	6:D1:192:TYR:OH	2.02	1.03
1:A3:1332:ARG:O	6:D3:637:LYS:CD	2.04	1.03
2:A4:781:ARG:CZ	6:D3:633:LYS:CE	2.35	1.03
2:A4:973:GLU:HA	6:D3:205:LEU:CB	1.86	1.03
2:A4:976:LEU:N	6:D3:496:LEU:CA	2.06	1.03
2:A4:982:THR:HA	6:D3:502:LEU:HD22	1.39	1.03
2:A4:1148:ARG:CB	3:A6:173:ASN:HA	1.67	1.03
2:A4:1151:THR:HG21	5:C4:734:VAL:HB	1.10	1.03
3:A6:180:GLU:HA	5:C4:744:PHE:CE2	1.92	1.03
3:A6:1394:VAL:CG1	28:Z4:869:HIS:O	2.05	1.03
8:F1:1094:GLY:HA3	17:O2:237:PRO:HA	1.05	1.03
11:I1:880:MET:HB3	17:O1:250:LEU:HB2	1.32	1.03
11:I1:976:ARG:CB	20:R1:149:ARG:CB	2.30	1.03
11:I1:1013:GLU:O	16:N1:411:GLN:C	1.99	1.03
11:I1:1037:THR:HG23	20:R1:170:LEU:N	1.70	1.03
11:I1:1038:ILE:N	20:R1:169:GLY:HA3	1.72	1.03
11:I2:840:LEU:HD22	17:O3:247:TRP:CD1	1.92	1.03
11:I2:850:ILE:CG2	15:M3:598:GLU:CG	2.34	1.03
11:I2:885:GLU:HA	16:N3:397:GLU:CG	1.88	1.03
11:I2:895:ARG:HH22	16:N3:386:MET:HG2	0.89	1.03
11:I2:897:GLU:HB3	17:O3:236:ASP:OD2	1.58	1.03
11:I2:925:LEU:HD13	20:R3:156:GLY:N	1.71	1.03
11:I2:944:GLU:HA	17:O3:256:TYR:CD1	1.93	1.03
11:I2:948:ALA:CB	17:O3:253:LEU:O	2.05	1.03
11:I2:984:GLU:CB	15:M3:618:GLN:NE2	2.12	1.03
11:I2:1018:LYS:HE3	16:N3:413:VAL:O	1.57	1.03
11:I2:1045:PHE:CD2	16:N3:434:LEU:CB	2.40	1.03
11:I2:1055:GLU:HG3	17:O3:277:GLU:O	1.58	1.03
11:I2:1072:ASN:N	16:N3:429:GLU:OE1	1.90	1.03
11:I3:1277:LEU:HG	26:X1:522:MET:SD	1.96	1.03
28:Z2:556:ASN:HA	30:b2:212:PHE:HB2	1.37	1.03
1:A1:1225:PRO:O	2:A2:728:LYS:HG2	1.57	1.03
2:A2:825:ARG:HD3	6:D1:633:LYS:HZ2	1.21	1.03
2:A2:970:PHE:O	6:D1:202:GLN:HG2	1.53	1.03
2:A2:983:LEU:HB3	6:D1:553:PHE:CB	1.88	1.03
2:A2:1114:ILE:HD11	5:C2:731:LYS:CB	1.87	1.03
2:A4:974:PRO:HA	6:D3:499:LEU:HD12	1.36	1.03
2:A4:977:VAL:CA	6:D3:492:VAL:HG12	1.77	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1133:GLU:CA	3:A6:145:THR:HG23	1.88	1.03
3:A5:1029:ILE:N	11:I5:67:LYS:C	1.92	1.03
3:A6:1303:GLN:HG3	28:Z4:838:GLN:HA	1.39	1.03
3:A6:1385:GLU:HA	28:Z4:863:ASP:N	1.67	1.03
11:I1:881:ILE:CG1	17:O1:249:ARG:O	2.07	1.03
11:I1:1021:ILE:HD12	16:N1:410:MET:HA	1.04	1.03
11:I1:1035:GLN:O	16:N1:441:PHE:HZ	1.39	1.03
11:I1:1066:LEU:HB3	16:N1:430:ARG:CD	1.87	1.03
11:I1:1109:LEU:HG	16:N1:438:LEU:HD23	1.39	1.03
11:I2:889:THR:HB	17:O3:242:ARG:HD3	1.06	1.03
11:I2:1031:ALA:HB3	20:R3:168:LEU:HD22	1.32	1.03
11:I2:1043:LEU:HA	16:N3:430:ARG:CD	1.88	1.03
11:I2:1055:GLU:O	17:O3:277:GLU:O	1.76	1.03
11:I2:1106:LYS:HB2	16:N3:440:GLU:CD	1.82	1.03
11:I2:1113:LEU:HD21	17:O3:282:LYS:HE2	1.06	1.03
2:A2:779:ASP:C	6:D1:679:ILE:H	1.66	1.03
2:A2:874:VAL:N	6:D1:568:ARG:HA	1.74	1.03
2:A4:868:GLN:HE21	6:D3:608:ILE:CD1	1.70	1.03
2:A4:974:PRO:C	6:D3:499:LEU:CG	2.31	1.03
2:A4:975:GLU:N	6:D3:499:LEU:HD12	1.73	1.03
3:A5:1373:GLY:O	28:Z2:814:THR:CB	2.05	1.03
3:A5:1374:ALA:O	28:Z2:814:THR:C	1.86	1.03
5:C1:732:LYS:HE2	11:I1:1228:GLU:CD	1.83	1.03
8:F2:140:GLU:HB2	17:O4:237:PRO:HG3	1.39	1.03
9:G1:257:THR:HA	17:O2:253:LEU:N	1.27	1.03
11:I1:887:GLN:HA	17:O1:242:ARG:HB2	1.37	1.03
11:I1:933:ASP:N	15:M1:605:THR:HG21	1.35	1.03
11:I1:946:THR:OG1	17:O1:260:LEU:HD22	1.53	1.03
11:I1:976:ARG:CZ	15:M1:622:VAL:CG2	2.36	1.03
11:I1:977:ASN:ND2	15:M1:621:ARG:O	1.91	1.03
11:I1:1038:ILE:N	20:R1:169:GLY:CA	2.20	1.03
11:I1:1110:SER:OG	16:N1:437:VAL:CB	1.93	1.03
11:I2:884:LEU:HD12	16:N3:400:LEU:CG	1.88	1.03
11:I2:942:HIS:CB	17:O3:259:ASP:O	2.01	1.03
11:I2:950:LEU:HG	15:M3:606:LEU:HD21	1.38	1.03
11:I2:980:ILE:C	15:M3:618:GLN:HG3	1.82	1.03
11:I2:1048:GLU:HG3	17:O3:288:GLU:HG3	1.37	1.03
11:I3:1273:GLU:CA	26:X1:523:LEU:HA	1.88	1.03
28:Z1:554:PHE:CD1	30:b1:233:TRP:O	2.12	1.03
28:Z3:554:PHE:CD1	30:b3:232:PRO:CG	2.42	1.03
1:A1:834:GLU:HB2	6:D3:302:PRO:HG3	1.41	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1087:GLY:HA3	6:D1:797:GLY:O	0.86	1.03
1:A1:1224:PRO:CG	2:A2:731:ILE:HD13	1.88	1.03
2:A2:824:ASN:OD1	2:A2:859:GLN:OE1	1.75	1.03
2:A2:861:GLN:C	6:D1:607:PRO:HD3	1.83	1.03
2:A2:874:VAL:HG22	6:D1:611:LYS:NZ	1.72	1.03
1:A3:1056:PHE:HD2	6:D3:805:GLY:O	1.37	1.03
1:A3:1087:GLY:HA2	6:D3:796:ALA:O	1.58	1.03
2:A4:782:VAL:HG23	6:D3:677:GLN:HA	1.35	1.03
2:A4:982:THR:HG22	6:D3:493:ALA:C	1.84	1.03
3:A5:207:LEU:HD13	5:C2:742:ASP:HB2	1.32	1.03
3:A5:995:VAL:O	11:I5:61:LYS:CB	2.05	1.03
3:A5:1026:PRO:O	11:I5:67:LYS:CA	2.04	1.03
3:A6:1361:ARG:HH12	28:Z4:879:PHE:N	1.57	1.03
11:I1:883:ALA:HB3	17:O1:246:LEU:CA	1.77	1.03
11:I1:981:VAL:HG23	20:R1:147:LEU:HD21	1.04	1.03
11:I1:1024:PHE:HB3	16:N1:406:HIS:HB2	1.35	1.03
11:I2:955:LYS:H	16:N3:403:VAL:HG22	1.18	1.03
11:I2:1020:ALA:O	16:N3:406:HIS:ND1	1.91	1.03
11:I2:1031:ALA:N	20:R3:172:ASP:C	2.15	1.03
11:I2:1040:HIS:HD1	15:M3:623:LEU:CD1	1.44	1.03
18:P2:319:VAL:HG23	18:P3:278:ASN:OD1	1.45	1.03
28:Z1:438:GLU:HB3	30:b1:314:PRO:CG	1.89	1.03
28:Z2:525:LEU:C	30:b2:208:ASN:ND2	2.17	1.03
1:A1:870:HIS:HD1	6:D3:279:HIS:CE1	1.67	1.03
2:A2:864:ARG:CD	6:D1:610:ASN:OD1	2.06	1.03
2:A2:968:SER:CA	6:D1:201:LEU:C	2.32	1.03
2:A2:970:PHE:HA	6:D1:192:TYR:CE2	1.94	1.03
2:A2:989:MSE:HE1	6:D1:241:ALA:N	1.72	1.03
2:A2:1131:ILE:HB	3:A5:137:HIS:CB	1.87	1.03
2:A2:1155:ASN:HD21	5:C2:735:ILE:HA	1.21	1.03
2:A2:1157:TYR:CB	3:A5:174:PRO:O	2.06	1.03
2:A2:1163:TYR:HD2	3:A5:133:LYS:CE	1.71	1.03
2:A4:827:ILE:HA	2:A4:860:GLU:HA	1.04	1.03
2:A4:864:ARG:HB3	6:D3:608:ILE:N	1.74	1.03
3:A5:1394:VAL:O	28:Z2:874:ASN:CA	2.07	1.03
3:A6:220:VAL:HG13	5:C4:738:ASP:O	0.87	1.03
3:A6:1316:VAL:HG12	28:Z4:870:ILE:CB	1.89	1.03
3:A6:1401:VAL:HA	28:Z4:919:PHE:CA	1.89	1.03
8:F1:1261:TYR:HE2	17:O2:260:LEU:CA	1.45	1.03
9:G1:256:GLN:H	17:O2:257:ALA:CB	1.71	1.03
11:I1:884:LEU:CD1	16:N1:400:LEU:HD11	1.82	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:996:LEU:HD21	16:N1:410:MET:HE1	1.06	1.03
11:I1:996:LEU:HD23	16:N1:410:MET:HE2	1.39	1.03
11:I1:1029:LEU:HD22	20:R1:174:ARG:HG3	1.36	1.03
11:I1:1114:VAL:HG23	16:N1:435:ALA:CB	1.89	1.03
11:I2:957:SER:CA	20:R3:168:LEU:HA	1.89	1.03
11:I2:998:ALA:CB	17:O3:267:ALA:CB	2.15	1.03
11:I2:999:SER:HB2	17:O3:264:ILE:CG2	1.88	1.03
11:I2:1048:GLU:CG	17:O3:288:GLU:HG3	1.89	1.03
11:I3:1270:LYS:HB2	26:X1:529:TRP:CA	1.54	1.03
11:I5:1236:TYR:CD1	29:a2:24[B]:GLY:O	2.11	1.03
28:Z2:554:PHE:CD1	30:b2:232:PRO:CG	2.42	1.03
28:Z3:525:LEU:C	30:b3:208:ASN:ND2	2.17	1.03
2:A2:965:LYS:HG3	6:D1:196:ILE:O	1.56	1.02
2:A2:1127:ALA:O	3:A5:140:ALA:HB2	1.58	1.02
2:A2:1155:ASN:HA	3:A5:175:GLU:CG	1.84	1.02
2:A4:908:LEU:HD23	6:D3:601:PHE:CB	1.88	1.02
2:A4:1114:ILE:HD11	5:C4:731:LYS:CB	1.87	1.02
2:A4:1151:THR:HG23	5:C4:734:VAL:N	1.68	1.02
3:A6:222:ALA:CB	5:C4:739:MET:SD	2.47	1.02
11:I1:846:ILE:CB	15:M1:594:LYS:HD2	1.88	1.02
11:I1:883:ALA:HB3	17:O1:246:LEU:HB3	1.05	1.02
11:I1:978:LYS:HD3	20:R1:152:LYS:O	1.56	1.02
11:I1:990:GLU:HG2	17:O1:275:LEU:HD23	1.06	1.02
11:I1:996:LEU:HD22	16:N1:410:MET:CE	1.62	1.02
11:I1:1018:LYS:HE2	16:N1:413:VAL:CG1	1.85	1.02
11:I2:883:ALA:CB	17:O3:243:LEU:O	2.07	1.02
11:I2:890:TYR:CD1	17:O3:238:ALA:O	2.10	1.02
11:I2:920:PHE:O	15:M3:592:LEU:HA	1.58	1.02
11:I2:935:GLY:C	17:O3:261:LYS:HZ1	1.52	1.02
11:I2:1038:ILE:CG1	20:R3:167:GLN:OE1	2.06	1.02
11:I3:1273:GLU:HG2	26:X1:535:ALA:HB2	1.05	1.02
17:O4:110:LEU:HB3	18:P4:321:ILE:HB	1.03	1.02
28:Z1:557:CYS:HA	30:b1:210:ARG:HA	1.37	1.02
28:Z4:554:PHE:CD1	30:b4:233:TRP:O	2.12	1.02
1:A3:1099:GLN:NE2	11:I2:1415:SER:O	1.90	1.02
2:A4:1132:PRO:CG	3:A6:159:SER:O	2.07	1.02
2:A4:1149:THR:CA	5:C4:730:HIS:N	2.19	1.02
3:A5:1026:PRO:HG2	11:I5:73:TYR:HB2	1.38	1.02
3:A6:1410:ALA:HB3	26:X4:743:PHE:C	1.83	1.02
11:I1:833:PHE:O	17:O1:241:SER:HB2	1.60	1.02
11:I1:882:LYS:HB3	17:O1:245:GLU:HB3	1.06	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:884:LEU:HD11	16:N1:396:ILE:CG2	1.89	1.02
11:I1:931:VAL:CG1	15:M1:604:ASN:OD1	2.06	1.02
11:I1:999:SER:O	16:N1:413:VAL:HG12	1.57	1.02
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD12	1.35	1.02
11:I1:1055:GLU:CA	17:O1:278:GLU:O	1.93	1.02
11:I1:1056:PRO:CB	17:O1:278:GLU:HG2	1.88	1.02
11:I1:1066:LEU:N	16:N1:430:ARG:CG	2.19	1.02
11:I1:1104:LEU:HB3	16:N1:436:ALA:HB3	1.07	1.02
11:I1:1607:GLN:O	12:J2:298:PHE:CD1	1.90	1.02
11:I2:917:TYR:O	15:M3:588:MET:CB	2.07	1.02
11:I2:945:LEU:N	17:O3:259:ASP:HB3	1.74	1.02
11:I2:951:LYS:HD2	16:N3:403:VAL:N	1.73	1.02
11:I2:990:GLU:CA	17:O3:272:SER:HA	1.89	1.02
11:I2:1018:LYS:N	16:N3:409:ALA:O	1.92	1.02
11:I2:1058:GLY:CA	17:O3:277:GLU:N	2.18	1.02
11:I2:1069:SER:N	16:N3:428:ASP:H	1.49	1.02
11:I2:1113:LEU:HD21	17:O3:282:LYS:CE	1.88	1.02
11:I4:1272:TYR:O	26:X3:521:TRP:O	1.78	1.02
28:Z2:438:GLU:HB3	30:b2:314:PRO:HG2	1.42	1.02
28:Z2:522:ASN:HB3	30:b2:240:LEU:HB3	1.37	1.02
28:Z3:522:ASN:H	30:b3:241:PRO:HG2	1.23	1.02
2:A2:872:ALA:CB	6:D1:565:MET:CA	2.22	1.02
2:A2:907:SER:O	6:D1:601:PHE:HA	1.23	1.02
2:A2:979:GLY:CA	6:D1:473:GLU:N	2.06	1.02
2:A2:1131:ILE:HB	3:A5:137:HIS:HB3	1.05	1.02
2:A2:1148:ARG:CZ	3:A5:171:HIS:O	2.06	1.02
2:A4:868:GLN:HB3	6:D3:570:VAL:CG2	1.88	1.02
2:A4:872:ALA:HB3	6:D3:565:MET:HE3	1.31	1.02
2:A4:878:LEU:CB	6:D3:567:LEU:CD1	2.15	1.02
2:A4:1130:ARG:C	3:A6:161[A]:ASP:OD2	2.01	1.02
3:A6:157:TRP:CH2	5:C4:747:PRO:HA	1.94	1.02
3:A6:163:SER:O	5:C4:743:LEU:HG	1.57	1.02
3:A6:1366:LEU:HD12	28:Z4:869:HIS:N	1.74	1.02
3:A6:1368:GLN:NE2	28:Z4:844:CYS:CB	2.23	1.02
6:D7:534:LEU:HD12	11:I3:181:GLN:O	1.24	1.02
11:I1:894:VAL:CG2	17:O1:238:ALA:H	1.72	1.02
11:I1:924:ILE:HG13	15:M1:596:ILE:CG1	1.81	1.02
11:I1:966:TRP:CE3	20:R1:167:GLN:CB	2.36	1.02
11:I1:980:ILE:HG13	20:R1:147:LEU:CD1	1.90	1.02
11:I1:1071:LEU:N	16:N1:429:GLU:HG3	1.73	1.02
11:I1:1104:LEU:O	16:N1:436:ALA:HB1	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1668:HIS:HB2	11:I2:1668:HIS:C	1.83	1.02
11:I2:835:ARG:O	17:O3:244:GLU:OE2	1.61	1.02
11:I2:951:LYS:HG2	16:N3:404:GLU:HG3	1.40	1.02
11:I2:1017:VAL:CG1	16:N3:410:MET:HG2	1.88	1.02
11:I2:1048:GLU:C	17:O3:287:LEU:HB3	1.83	1.02
11:I3:1267:LEU:CG	26:X1:497:ARG:NH2	2.22	1.02
11:I4:1277:LEU:HA	26:X3:518:ASP:C	1.78	1.02
11:I5:1279:THR:OG1	26:X2:520:GLU:HA	1.59	1.02
17:O4:106:HIS:O	18:P4:318:PRO:CD	2.08	1.02
1:A1:1224:PRO:CD	2:A2:731:ILE:CG1	2.35	1.02
2:A2:876:ARG:CD	6:D1:558:LYS:HA	1.89	1.02
2:A2:979:GLY:CA	6:D1:472:PHE:HB3	1.88	1.02
1:A3:1220:PRO:HB3	2:A4:646:ILE:CD1	1.86	1.02
2:A4:875:LEU:O	6:D3:564:ASN:CB	2.07	1.02
2:A4:984:ALA:C	6:D3:498:GLU:HA	1.62	1.02
2:A4:989:MSE:HE1	6:D3:242:LEU:N	1.69	1.02
2:A4:1114:ILE:HD11	5:C4:731:LYS:HG3	1.41	1.02
3:A5:189:VAL:C	5:C2:745:SER:OG	1.93	1.02
3:A5:994:VAL:N	11:I5:57:GLU:CG	2.17	1.02
3:A5:1029:ILE:N	11:I5:68:ILE:N	2.00	1.02
3:A6:1358:LEU:O	28:Z4:872:TYR:O	1.78	1.02
3:A6:1369:ILE:CG1	28:Z4:826:TYR:CA	2.30	1.02
11:I1:878:GLN:N	17:O1:252:VAL:N	2.06	1.02
11:I1:885:GLU:CA	16:N1:397:GLU:CD	2.33	1.02
11:I1:976:ARG:HB2	20:R1:149:ARG:HB3	1.41	1.02
11:I1:992:ILE:H	15:M1:608:LYS:HG2	1.22	1.02
11:I1:1021:ILE:CD1	16:N1:410:MET:HB2	1.77	1.02
11:I1:1024:PHE:CB	16:N1:406:HIS:CG	2.38	1.02
11:I1:1031:ALA:N	20:R1:172:ASP:O	1.91	1.02
11:I1:1037:THR:HB	20:R1:173:LEU:CD1	1.88	1.02
11:I1:1611:PHE:C	11:I2:1673:VAL:CA	2.32	1.02
11:I2:962:ILE:HD13	15:M3:596:ILE:HG22	1.04	1.02
11:I2:1024:PHE:CB	16:N3:406:HIS:CD2	2.41	1.02
11:I2:1067:PHE:CD1	16:N3:430:ARG:C	2.28	1.02
11:I3:1267:LEU:CD1	26:X1:497:ARG:NH1	2.22	1.02
11:I4:1279:THR:CB	26:X3:523:LEU:CB	2.33	1.02
28:Z3:438:GLU:HB3	30:b3:314:PRO:CG	1.89	1.02
28:Z3:522:ASN:HB3	30:b3:240:LEU:HB3	1.37	1.02
28:Z3:554:PHE:CD1	30:b3:233:TRP:O	2.12	1.02
1:A1:870:HIS:ND1	6:D3:279:HIS:ND1	1.95	1.02
1:A1:1197:ALA:HB1	2:A2:728:LYS:HZ2	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1139:ILE:HG21	3:A5:134:VAL:H	0.87	1.02
2:A2:1148:ARG:HH21	3:A5:172:PRO:HA	1.20	1.02
1:A3:835:THR:CG2	6:D1:302:PRO:CB	2.38	1.02
1:A3:1052:THR:HG23	6:D3:812:VAL:O	1.59	1.02
1:A3:1222:ALA:HB3	2:A4:723:PHE:HE2	1.22	1.02
2:A4:975:GLU:C	6:D3:501:LEU:CB	2.33	1.02
2:A4:983:LEU:CD1	6:D3:553:PHE:HB3	1.90	1.02
2:A4:992:TYR:CB	6:D3:238:ALA:O	1.99	1.02
2:A4:992:TYR:HB3	6:D3:238:ALA:O	1.23	1.02
2:A4:1136:LYS:O	3:A6:138:LEU:HD12	1.58	1.02
3:A5:1315:VAL:HB	28:Z2:833:ASP:O	1.56	1.02
8:F2:1091:SER:N	17:O4:245:GLU:N	2.06	1.02
11:I1:797:LEU:CD1	17:O1:245:GLU:HA	1.89	1.02
11:I1:928:LEU:C	15:M1:601:ASP:OD1	1.99	1.02
11:I1:958:THR:H	16:N1:399:HIS:CD2	1.78	1.02
11:I1:1041:GLN:HB3	15:M1:620:VAL:HG21	1.37	1.02
11:I1:1066:LEU:HB3	16:N1:430:ARG:HB3	1.42	1.02
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB2	1.41	1.02
11:I1:1677:LYS:HD2	11:I2:1635:HIS:CE1	1.95	1.02
11:I2:946:THR:C	17:O3:260:LEU:HD23	1.83	1.02
11:I2:1045:PHE:CD2	16:N3:434:LEU:HB2	1.92	1.02
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE1	2.07	1.02
11:I2:1109:LEU:HB3	16:N3:438:LEU:HA	1.03	1.02
17:O3:147:ALA:CB	18:P3:328:PRO:CG	2.36	1.02
17:O3:158:GLU:HG3	18:P3:316:LEU:CA	1.90	1.02
17:O4:110:LEU:H	18:P4:318:PRO:HB3	1.23	1.02
28:Z2:524:VAL:CA	30:b2:236:THR:CG2	2.33	1.02
28:Z3:534:ASP:CA	30:b3:164:CYS:HB2	1.90	1.02
28:Z3:555:LYS:HG2	30:b3:213:ASP:H	1.24	1.02
2:A2:988:ARG:CA	6:D1:500:LYS:HZ1	1.73	1.01
2:A2:1125:LEU:H	3:A5:133:LYS:HA	1.23	1.01
1:A3:1054:SER:CA	6:D3:809:ALA:C	2.33	1.01
1:A3:1201:ARG:CB	2:A4:735:ALA:N	2.17	1.01
2:A4:870:HIS:CG	6:D3:566:PHE:HD1	1.75	1.01
2:A4:879:LEU:CD1	6:D3:564:ASN:ND2	2.23	1.01
2:A4:975:GLU:HB2	6:D3:499:LEU:HB3	1.42	1.01
2:A4:1129:PRO:CB	3:A6:142:GLU:HG3	1.73	1.01
3:A5:996:ASN:HB3	11:I5:59:LEU:H	1.25	1.01
3:A5:1359:LEU:CB	28:Z2:878:HIS:N	2.20	1.01
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CA	2.38	1.01
3:A5:1374:ALA:O	28:Z2:814:THR:O	1.77	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1351:MSE:CG	28:Z4:918:PHE:N	2.21	1.01
3:A6:1413:SER:N	28:Z4:964:LEU:CB	2.08	1.01
8:F1:1261:TYR:HD2	17:O2:259:ASP:CG	1.66	1.01
9:G1:255:LEU:O	15:M2:602:MET:CB	2.07	1.01
11:I1:881:ILE:H	17:O1:249:ARG:CA	1.73	1.01
11:I1:881:ILE:CD1	17:O1:249:ARG:O	2.08	1.01
11:I1:915:ALA:HB3	15:M1:582:THR:O	1.59	1.01
11:I1:940:LEU:HB2	17:O1:259:ASP:O	1.59	1.01
11:I1:945:LEU:CD1	17:O1:254:ARG:O	2.05	1.01
11:I2:881:ILE:O	17:O3:249:ARG:HD3	1.21	1.01
11:I2:896:PRO:HA	17:O3:232:LYS:O	1.58	1.01
11:I2:1039:ALA:HA	20:R3:170:LEU:HD11	1.23	1.01
11:I2:1058:GLY:HA3	17:O3:277:GLU:CA	1.88	1.01
11:I2:1110:SER:CB	16:N3:438:LEU:H	1.63	1.01
28:Z2:526:ARG:HB3	30:b2:206:ASN:OD1	1.40	1.01
28:Z2:534:ASP:CA	30:b2:164:CYS:HB2	1.90	1.01
1:A1:1332:ARG:CG	6:D1:636:ASP:CG	2.25	1.01
2:A2:980:ARG:CZ	6:D1:525:ARG:CD	2.37	1.01
2:A2:1121:LEU:O	3:A5:133:LYS:HA	1.60	1.01
2:A4:868:GLN:C	6:D3:598:ILE:HB	1.85	1.01
2:A4:1161:ALA:C	3:A6:180:GLU:OE2	2.04	1.01
3:A5:1369:ILE:HG23	28:Z2:831:LEU:H	1.24	1.01
3:A6:188:ALA:HA	5:C4:746:PRO:O	1.59	1.01
3:A6:1351:MSE:CB	28:Z4:918:PHE:N	0.87	1.01
8:F1:1261:TYR:OH	17:O2:260:LEU:HA	1.27	1.01
11:I1:841:PHE:CD1	17:O1:243:LEU:CD1	2.43	1.01
11:I1:877:ILE:HB	17:O1:252:VAL:N	1.37	1.01
11:I1:877:ILE:HB	17:O1:252:VAL:C	1.84	1.01
11:I1:1000:ILE:HG22	16:N1:413:VAL:HG21	1.39	1.01
11:I2:967:SER:N	20:R3:153:GLN:NE2	2.06	1.01
11:I2:1034:ASP:CB	15:M3:630:LEU:HD13	1.89	1.01
11:I2:1040:HIS:CE1	16:N3:437:VAL:CG1	2.44	1.01
11:I2:1051:LYS:HB3	17:O3:284:LYS:O	1.58	1.01
11:I2:1059:PRO:HB2	17:O3:274:GLY:O	1.60	1.01
11:I3:1275:SER:CB	26:X1:508:LEU:HD21	1.90	1.01
11:I3:1275:SER:HA	26:X1:508:LEU:HG	1.05	1.01
28:Z2:410:ASN:HD21	30:b2:252:ALA:CB	1.73	1.01
28:Z3:524:VAL:CA	30:b3:236:THR:CG2	2.33	1.01
28:Z4:554:PHE:CD1	30:b4:232:PRO:CG	2.42	1.01
28:Z4:556:ASN:HA	30:b4:212:PHE:HB2	1.37	1.01
1:A3:835:THR:HG21	6:D1:302:PRO:HB2	1.03	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:982:THR:CA	6:D3:502:LEU:HD22	1.88	1.01
2:A4:1142:PHE:HZ	3:A6:567:VAL:HG23	0.86	1.01
3:A5:1026:PRO:CD	11:I5:102:ILE:CD1	2.39	1.01
3:A6:165:PHE:CD2	5:C4:743:LEU:HD11	1.91	1.01
9:G1:256:GLN:HG2	17:O2:257:ALA:CB	1.89	1.01
9:G1:263:MET:CA	16:N2:411:GLN:CB	2.33	1.01
11:I1:966:TRP:CZ3	20:R1:167:GLN:CG	2.29	1.01
11:I1:983:LEU:CD1	15:M1:604:ASN:CG	2.25	1.01
11:I1:1018:LYS:CE	16:N1:413:VAL:O	2.08	1.01
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD22	1.59	1.01
11:I1:1642:LEU:CD1	11:I2:1669:ARG:HH12	1.72	1.01
11:I2:834:SER:HB2	17:O3:237:PRO:HA	1.37	1.01
11:I2:964:SER:C	20:R3:153:GLN:HE21	1.67	1.01
11:I2:995:SER:HA	17:O3:267:ALA:HB3	1.03	1.01
11:I2:1048:GLU:HB2	17:O3:284:LYS:CB	1.91	1.01
11:I3:1278:ALA:H	26:X1:519:ILE:CB	1.71	1.01
11:I4:1274:HIS:ND1	26:X3:529:TRP:CB	2.23	1.01
28:Z2:438:GLU:HB3	30:b2:314:PRO:CG	1.89	1.01
28:Z2:554:PHE:CD1	30:b2:233:TRP:O	2.12	1.01
28:Z2:557:CYS:HB3	30:b2:210:ARG:NH1	1.51	1.01
28:Z4:407:GLY:HA2	30:b4:251:ILE:HG13	1.38	1.01
2:A2:1127:ALA:C	3:A5:140:ALA:HB2	1.84	1.01
2:A2:1148:ARG:HD2	3:A5:172:PRO:CA	1.79	1.01
2:A2:1158:ALA:H	3:A5:175:GLU:HA	0.85	1.01
2:A4:1135:ARG:NH1	3:A6:158:ALA:N	1.89	1.01
2:A4:1138:GLU:C	3:A6:130:ILE:HG21	1.86	1.01
3:A5:1027:HIS:HE1	11:I5:65:LYS:CB	1.71	1.01
3:A6:153:ILE:HD12	5:C4:739:MET:SD	2.00	1.01
8:F1:1202:TYR:O	17:O2:252:VAL:CA	2.08	1.01
8:F1:1262:HIS:ND1	17:O2:259:ASP:HA	1.74	1.01
9:G2:254:ASN:HB2	17:O4:265:ASN:HD21	1.25	1.01
11:I1:846:ILE:CD1	15:M1:594:LYS:HD2	1.84	1.01
11:I1:952:LEU:HA	16:N1:400:LEU:HD23	1.41	1.01
11:I1:986:ASN:O	15:M1:611:LYS:HA	1.60	1.01
11:I1:1020:ALA:HB1	16:N1:407:ALA:N	1.70	1.01
11:I1:1104:LEU:HD21	16:N1:433:GLU:CG	1.82	1.01
11:I2:887:GLN:NE2	16:N3:393:ILE:O	1.93	1.01
11:I2:978:LYS:NZ	20:R3:155:GLU:CB	2.24	1.01
11:I2:980:ILE:HD11	20:R3:147:LEU:HA	1.42	1.01
11:I2:1609:GLY:O	12:J1:295:TYR:CZ	2.12	1.01
11:I4:1274:HIS:HB2	26:X3:525:ILE:CG2	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M1:507:GLN:OE1	18:P1:318:PRO:HG2	1.53	1.01
17:O3:155:VAL:HG21	18:P3:321:ILE:HG21	1.01	1.01
28:Z1:411:LEU:HD23	30:b1:251:ILE:CG2	1.90	1.01
28:Z1:554:PHE:CD1	30:b1:232:PRO:CG	2.42	1.01
28:Z3:557:CYS:CB	30:b3:210:ARG:NH1	2.05	1.01
28:Z3:557:CYS:HA	30:b3:210:ARG:HA	1.37	1.01
2:A2:864:ARG:CZ	6:D1:610:ASN:CG	2.34	1.01
2:A2:866:SER:O	6:D1:598:ILE:CG2	2.07	1.01
2:A2:1121:LEU:O	3:A5:133:LYS:CA	2.08	1.01
2:A2:1122:LEU:HD11	3:A5:135:PHE:HD2	1.22	1.01
2:A2:1142:PHE:CZ	3:A5:567:VAL:CB	2.32	1.01
2:A2:1163:TYR:CD2	3:A5:133:LYS:CE	2.44	1.01
2:A4:231:SER:HB3	6:D3:709:ARG:NH2	1.74	1.01
2:A4:976:LEU:CD1	6:D3:501:LEU:HD22	1.91	1.01
2:A4:1133:GLU:C	3:A6:145:THR:HG1	0.57	1.01
2:A4:1141:GLU:OE1	3:A6:565:THR:N	1.91	1.01
3:A5:996:ASN:ND2	11:I5:58:ALA:HB3	1.44	1.01
3:A5:1368:GLN:HB2	28:Z2:841:ALA:HA	1.41	1.01
3:A6:165:PHE:HD2	5:C4:743:LEU:HD11	1.22	1.01
3:A6:209:VAL:CG2	5:C4:742:ASP:CG	2.32	1.01
3:A6:1386:GLU:C	28:Z4:863:ASP:HA	1.82	1.01
9:G1:255:LEU:HD13	17:O2:258:GLU:HG2	1.42	1.01
11:I1:833:PHE:HE2	17:O1:238:ALA:C	1.69	1.01
11:I1:1070:LEU:H	16:N1:429:GLU:CB	1.73	1.01
11:I2:919:ALA:HB2	16:N3:392:THR:OG1	1.59	1.01
11:I2:948:ALA:CB	17:O3:256:TYR:CB	1.99	1.01
11:I2:956:ILE:O	20:R3:166:LEU:CB	2.08	1.01
11:I2:1030:ARG:HH11	20:R3:175:GLN:HG2	1.25	1.01
11:I3:1273:GLU:HA	26:X1:523:LEU:CA	1.83	1.01
17:O3:147:ALA:CB	18:P3:328:PRO:HB2	1.89	1.01
28:Z4:524:VAL:HG11	30:b4:236:THR:O	1.61	1.01
28:Z4:525:LEU:C	30:b4:208:ASN:ND2	2.17	1.01
28:Z4:526:ARG:HB3	30:b4:206:ASN:OD1	1.40	1.01
28:Z4:557:CYS:CB	30:b4:210:ARG:NH1	2.05	1.01
28:Z4:557:CYS:HA	30:b4:210:ARG:HA	1.37	1.01
2:A2:870:HIS:CD2	6:D1:551:PHE:HB2	1.90	1.00
2:A2:1132:PRO:C	3:A5:160:ILE:HG13	1.81	1.00
2:A2:1158:ALA:HA	3:A5:133:LYS:HZ1	1.25	1.00
1:A3:1091:VAL:HG21	6:D3:808:ASN:H	0.87	1.00
2:A4:781:ARG:NE	6:D3:633:LYS:HE2	1.75	1.00
2:A4:874:VAL:CB	6:D3:567:LEU:O	2.00	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1129:PRO:HB3	3:A6:142:GLU:HG2	1.35	1.00
3:A5:230:LYS:H	5:C2:739:MET:HE3	1.22	1.00
8:F1:1091:SER:OG	17:O2:237:PRO:O	1.77	1.00
8:F1:1093:LEU:CB	17:O2:244:GLU:OE1	2.00	1.00
8:F2:1091:SER:N	17:O4:245:GLU:CA	2.24	1.00
9:G1:256:GLN:HG2	17:O2:257:ALA:HB2	1.04	1.00
11:I1:881:ILE:HD12	17:O1:249:ARG:O	1.61	1.00
11:I1:947:LEU:CD1	17:O1:256:TYR:CE2	2.44	1.00
11:I1:976:ARG:N	20:R1:149:ARG:HG2	1.73	1.00
11:I1:980:ILE:HG13	20:R1:147:LEU:HD12	1.39	1.00
11:I1:985:ARG:N	15:M1:613:ASP:CA	2.23	1.00
11:I1:1023:ASP:HB2	16:N1:405:ALA:CB	1.91	1.00
11:I1:1068:HIS:CE1	16:N1:431:VAL:HB	1.95	1.00
11:I1:1104:LEU:HD13	16:N1:433:GLU:CA	1.90	1.00
11:I1:1104:LEU:O	16:N1:436:ALA:C	2.03	1.00
11:I2:894:VAL:HB	17:O3:239:GLN:N	1.13	1.00
11:I2:915:ALA:O	15:M3:585:LEU:HB3	1.61	1.00
11:I2:1036:PRO:HB2	15:M3:619:ILE:O	1.58	1.00
11:I3:715:GLY:N	29:a2:40[A]:GLU:OE2	1.94	1.00
11:I3:1270:LYS:HG2	26:X1:527:VAL:O	1.62	1.00
11:I4:1267:LEU:C	26:X3:528:GLU:HG2	1.76	1.00
17:O4:109:PRO:O	18:P4:322:LYS:NZ	1.94	1.00
28:Z4:438:GLU:HB3	30:b4:314:PRO:CG	1.89	1.00
28:Z4:555:LYS:HG2	30:b4:213:ASP:H	1.25	1.00
1:A1:874:VAL:CG1	6:D3:272:VAL:HB	1.90	1.00
1:A1:1226:LEU:HG	2:A2:725:GLU:OE1	1.60	1.00
2:A2:779:ASP:N	6:D1:678:GLY:HA2	1.75	1.00
2:A2:780:GLU:N	6:D1:679:ILE:N	2.04	1.00
2:A2:879:LEU:HG	6:D1:567:LEU:CD1	1.90	1.00
2:A2:980:ARG:NH1	6:D1:525:ARG:CG	0.86	1.00
2:A2:1140:GLU:CD	3:A5:135:PHE:CD1	2.29	1.00
2:A4:988:ARG:CG	6:D3:500:LYS:HG3	1.91	1.00
3:A6:164:LEU:HD22	5:C4:742:ASP:CG	1.48	1.00
3:A6:1312:ARG:CZ	28:Z4:841:ALA:HB1	1.92	1.00
3:A6:1351:MSE:HB2	28:Z4:917:ASP:N	1.73	1.00
3:A6:1414:PHE:H	28:Z4:964:LEU:HA	1.23	1.00
8:F1:1267:ARG:CD	17:O2:265:ASN:OD1	2.09	1.00
9:G1:256:GLN:CG	17:O2:257:ALA:HB2	1.91	1.00
9:G2:255:LEU:HA	17:O4:262:ASP:OD2	1.61	1.00
11:I1:920:PHE:O	15:M1:592:LEU:HA	1.19	1.00
11:I1:953:LEU:H	16:N1:403:VAL:HG11	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1021:ILE:HG23	16:N1:406:HIS:HE1	1.21	1.00
11:I1:1052:LEU:HB2	16:N1:438:LEU:HD13	1.43	1.00
11:I1:1052:LEU:C	17:O1:283:ALA:O	2.02	1.00
11:I1:1059:PRO:CD	17:O1:276:GLY:C	2.31	1.00
11:I1:1664:PHE:HD2	11:I2:1667:GLN:C	1.40	1.00
11:I2:911:PRO:HB3	15:M3:584:GLN:HE22	1.09	1.00
11:I2:993:SER:CB	16:N3:430:ARG:NH1	1.79	1.00
11:I2:1020:ALA:O	16:N3:406:HIS:CA	2.04	1.00
11:I2:1067:PHE:CD2	16:N3:428:ASP:O	2.15	1.00
11:I2:1106:LYS:O	16:N3:440:GLU:HA	1.21	1.00
28:Z1:525:LEU:C	30:b1:208:ASN:ND2	2.17	1.00
28:Z3:438:GLU:HB3	30:b3:314:PRO:HG2	1.42	1.00
28:Z3:535:ILE:HG12	30:b3:182:PRO:HB3	1.39	1.00
28:Z4:410:ASN:HB3	30:b4:251:ILE:HB	1.44	1.00
28:Z4:411:LEU:HD23	30:b4:251:ILE:CG2	1.90	1.00
1:A1:831:ALA:O	6:D3:298:ASN:CG	2.04	1.00
2:A2:779:ASP:CA	6:D1:675:ARG:CA	2.40	1.00
2:A2:908:LEU:HD23	6:D1:601:PHE:C	1.87	1.00
2:A2:1163:TYR:HD2	3:A5:133:LYS:HE3	0.84	1.00
1:A3:1021:LEU:CD1	6:D3:816:VAL:O	2.08	1.00
1:A3:1223:GLU:HG2	2:A4:734:LEU:HD11	1.01	1.00
2:A4:908:LEU:O	6:D3:555:ARG:HB2	1.60	1.00
2:A4:973:GLU:HB3	6:D3:498:GLU:HB2	1.40	1.00
2:A4:1160:GLN:OE1	3:A6:178:GLY:C	2.03	1.00
3:A5:1029:ILE:HG22	11:I5:70:GLU:C	1.86	1.00
3:A6:165:PHE:CG	5:C4:743:LEU:HD22	1.96	1.00
4:B6:345:LYS:N	5:C4:737:LYS:NZ	2.07	1.00
8:F1:1265:GLN:OE1	17:O2:258:GLU:C	2.02	1.00
8:F2:1049:GLN:HE21	17:O4:237:PRO:HB3	1.25	1.00
8:F2:1091:SER:N	17:O4:245:GLU:HA	1.74	1.00
9:G1:258:LYS:CB	17:O2:253:LEU:CD2	2.35	1.00
11:I1:927:HIS:NE2	15:M1:594:LYS:CB	2.25	1.00
11:I1:947:LEU:HA	16:N1:407:ALA:HB3	1.40	1.00
11:I1:981:VAL:CB	20:R1:147:LEU:CG	1.85	1.00
11:I1:1036:PRO:HD2	15:M1:626:HIS:HB2	1.44	1.00
11:I1:1046:HIS:HB3	17:O1:283:ALA:HB3	1.39	1.00
11:I1:1048:GLU:HB2	17:O1:284:LYS:HA	1.42	1.00
11:I1:1665:LEU:CB	11:I2:1667:GLN:CG	2.38	1.00
11:I2:847:THR:H	15:M3:594:LYS:NZ	1.58	1.00
11:I2:898:VAL:CG2	17:O3:236:ASP:CA	2.38	1.00
11:I2:936:LYS:CA	15:M3:609:GLY:HA3	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:951:LYS:CB	17:O3:253:LEU:HD22	1.91	1.00
11:I2:1042:LEU:HD23	15:M3:616:LEU:HD23	1.43	1.00
11:I3:1271:GLU:O	26:X1:525:ILE:HG22	1.60	1.00
11:I4:1274:HIS:NE2	26:X3:531:LEU:N	2.10	1.00
11:I4:1275:SER:N	26:X3:522:MET:O	1.95	1.00
28:Z2:410:ASN:HB3	30:b2:251:ILE:HB	1.44	1.00
28:Z2:531:LYS:NZ	30:b2:166:LEU:HB3	1.76	1.00
28:Z3:531:LYS:NZ	30:b3:166:LEU:HB3	1.76	1.00
2:A2:1124:ARG:C	3:A5:136:GLU:HB2	1.85	1.00
2:A4:1135:ARG:CZ	3:A6:167:TRP:HZ3	1.75	1.00
3:A6:1324:ASP:OD2	28:Z4:907:LEU:CA	2.08	1.00
11:I1:931:VAL:CG2	15:M1:604:ASN:N	2.11	1.00
11:I1:940:LEU:HB2	17:O1:259:ASP:C	1.85	1.00
11:I1:946:THR:O	16:N1:407:ALA:CB	2.10	1.00
11:I1:1051:LYS:HE3	17:O1:289:ASP:H	0.99	1.00
11:I2:888:GLU:N	16:N3:393:ILE:HG22	1.76	1.00
11:I2:944:GLU:CA	17:O3:256:TYR:CD1	2.38	1.00
11:I2:1031:ALA:C	20:R3:173:LEU:HA	1.87	1.00
28:Z1:534:ASP:CA	30:b1:164:CYS:HB2	1.90	1.00
28:Z3:410:ASN:HD21	30:b3:252:ALA:CB	1.73	1.00
1:A1:1224:PRO:CD	2:A2:731:ILE:HB	1.92	1.00
2:A2:870:HIS:HD2	6:D1:551:PHE:HB2	1.23	1.00
2:A4:876:ARG:HG2	6:D3:563:GLU:C	1.87	1.00
3:A6:1361:ARG:NH1	28:Z4:879:PHE:CB	2.25	1.00
11:I1:841:PHE:CE1	17:O1:243:LEU:CD1	2.43	1.00
11:I1:920:PHE:HE1	17:O1:247:TRP:NE1	1.30	1.00
11:I2:879:VAL:O	17:O3:246:LEU:C	2.05	1.00
17:O4:110:LEU:N	18:P4:318:PRO:HB3	1.76	1.00
18:P2:319:VAL:HG21	18:P3:278:ASN:OD1	1.53	1.00
28:Z3:410:ASN:HB3	30:b3:251:ILE:HB	1.44	1.00
1:A1:1201:ARG:NH1	2:A2:734:LEU:CD2	2.17	1.00
11:I3:1277:LEU:HD12	26:X1:522:MET:HG3	1.40	1.00
15:M1:507:GLN:OE1	18:P1:318:PRO:HG3	1.53	1.00
17:O4:111:TYR:CD1	18:P4:325:ILE:HD11	1.96	1.00
28:Z1:535:ILE:HG12	30:b1:182:PRO:HB3	1.39	1.00
2:A2:781:ARG:CG	6:D1:673:ARG:HB3	1.92	1.00
2:A2:864:ARG:O	6:D1:608:ILE:CG1	2.10	1.00
2:A2:1133:GLU:C	3:A5:138:LEU:HD21	1.82	1.00
1:A3:1084:ARG:HG2	6:D3:794:THR:CB	1.67	1.00
2:A4:972:GLY:O	6:D3:206:VAL:N	1.95	1.00
2:A4:986:THR:HG21	6:D3:504:LYS:HG2	1.01	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1388:ALA:O	28:Z2:867:LYS:HA	1.19	1.00
3:A5:1395:LYS:CG	28:Z2:873:LEU:N	2.04	1.00
11:I1:887:GLN:HA	17:O1:242:ARG:CB	1.91	1.00
11:I1:951:LYS:CD	16:N1:400:LEU:O	2.10	1.00
11:I2:837:MET:HA	17:O3:244:GLU:H	1.22	1.00
11:I2:895:ARG:HA	17:O3:236:ASP:H	0.98	1.00
11:I2:950:LEU:CG	15:M3:606:LEU:HD21	1.75	1.00
11:I2:955:LYS:CA	16:N3:399:HIS:C	2.21	1.00
11:I2:976:ARG:HH12	15:M3:622:VAL:HG21	1.26	1.00
11:I4:1279:THR:HG23	26:X3:523:LEU:HB2	1.00	1.00
28:Z1:410:ASN:HB3	30:b1:251:ILE:HB	1.44	1.00
28:Z1:639:LEU:HA	30:b1:232:PRO:HG3	1.44	1.00
28:Z2:411:LEU:HD23	30:b2:251:ILE:CG2	1.90	1.00
28:Z4:551:THR:CG2	30:b4:233:TRP:CH2	2.17	1.00
2:A2:989:MSE:CE	6:D1:240:ASP:C	2.34	0.99
2:A4:1136:LYS:CE	3:A6:140:ALA:N	2.20	0.99
3:A5:165:PHE:CD1	5:C2:743:LEU:HD21	1.97	0.99
8:F1:1262:HIS:CE1	17:O2:259:ASP:CA	2.45	0.99
8:F1:1266:MET:CG	17:O2:262:ASP:OD2	2.09	0.99
11:I2:962:ILE:CD1	15:M3:596:ILE:HG22	1.92	0.99
11:I2:1054:ILE:H	17:O3:282:LYS:N	1.48	0.99
11:I3:1271:GLU:CA	26:X1:525:ILE:HG22	1.91	0.99
17:O3:151:LEU:HD23	18:P3:325:ILE:CG1	1.49	0.99
28:Z3:411:LEU:HD23	30:b3:251:ILE:CG2	1.90	0.99
28:Z4:530:LYS:HE2	30:b4:164:CYS:SG	2.02	0.99
1:A1:1201:ARG:NE	2:A2:734:LEU:HB3	1.76	0.99
2:A2:876:ARG:NH1	6:D1:563:GLU:N	1.85	0.99
3:A5:1391:ARG:CA	28:Z2:871:HIS:N	2.13	0.99
3:A6:157:TRP:CH2	5:C4:747:PRO:CA	2.44	0.99
3:A6:165:PHE:CZ	5:C4:743:LEU:HD21	1.96	0.99
11:I1:1029:LEU:HD11	16:N1:433:GLU:OE1	1.61	0.99
11:I1:1037:THR:HG23	20:R1:169:GLY:HA2	1.06	0.99
11:I1:1667:GLN:HG3	11:I2:1665:LEU:HG	1.42	0.99
11:I2:847:THR:HG23	15:M3:594:LYS:NZ	1.76	0.99
11:I2:956:ILE:HG21	15:M3:600:ASN:HA	1.44	0.99
28:Z1:555:LYS:HG2	30:b1:213:ASP:H	1.24	0.99
28:Z2:522:ASN:H	30:b2:241:PRO:HG2	1.23	0.99
28:Z2:526:ARG:N	30:b2:208:ASN:CG	2.20	0.99
2:A2:780:GLU:CA	6:D1:677:GLN:C	2.35	0.99
2:A2:1114:ILE:HD11	5:C2:731:LYS:HB2	1.44	0.99
2:A4:909:LYS:HG3	6:D3:555:ARG:HH11	1.27	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1369:ILE:CD1	28:Z2:832:PHE:N	2.25	0.99
11:I1:877:ILE:CB	17:O1:253:LEU:N	2.24	0.99
11:I1:931:VAL:HG22	15:M1:604:ASN:CA	1.91	0.99
11:I1:1668:HIS:HB2	11:I2:1668:HIS:HB2	1.42	0.99
11:I2:939:ASN:HB3	17:O3:265:ASN:ND2	1.76	0.99
11:I2:939:ASN:CG	17:O3:265:ASN:OD1	2.04	0.99
11:I2:1032:THR:CB	20:R3:173:LEU:HD11	1.92	0.99
11:I2:1067:PHE:CD2	16:N3:432:TYR:N	2.15	0.99
11:I3:715:GLY:HA2	29:a2:40[A]:GLU:OE2	1.61	0.99
17:O4:109:PRO:HD2	18:P4:318:PRO:HG2	1.41	0.99
28:Z2:554:PHE:CD2	30:b2:233:TRP:C	2.13	0.99
28:Z3:526:ARG:N	30:b3:208:ASN:CG	2.20	0.99
28:Z4:410:ASN:HD21	30:b4:252:ALA:CB	1.73	0.99
28:Z4:522:ASN:H	30:b4:241:PRO:HG2	1.23	0.99
2:A2:983:LEU:CB	6:D1:553:PHE:HB3	1.92	0.99
3:A5:164:LEU:HD11	5:C2:745:SER:H	1.23	0.99
3:A5:1026:PRO:CD	11:I5:102:ILE:HD11	1.92	0.99
3:A5:1394:VAL:O	28:Z2:874:ASN:HA	1.60	0.99
3:A6:1355:VAL:CA	28:Z4:877:ILE:HA	1.91	0.99
11:I1:916:ALA:CB	15:M1:586:ASP:CA	2.02	0.99
11:I1:984:GLU:N	15:M1:617:THR:CG2	2.25	0.99
28:Z1:524:VAL:CG1	30:b1:236:THR:HB	1.86	0.99
28:Z4:531:LYS:NZ	30:b4:166:LEU:HB3	1.76	0.99
1:A1:1221:ILE:HD12	2:A2:618:ALA:HB2	0.99	0.99
2:A2:1114:ILE:HD11	5:C2:731:LYS:HG3	1.41	0.99
2:A4:908:LEU:HG	6:D3:601:PHE:O	1.61	0.99
3:A6:1376:LEU:HA	28:Z4:814:THR:C	1.87	0.99
11:I1:797:LEU:HD22	17:O1:245:GLU:CG	1.92	0.99
11:I1:883:ALA:HB2	17:O1:243:LEU:C	1.84	0.99
11:I1:949:CYS:SG	17:O1:253:LEU:O	2.20	0.99
11:I1:1055:GLU:CA	17:O1:281:ALA:H	1.75	0.99
11:I1:1063:GLN:C	16:N1:428:ASP:HB2	1.88	0.99
11:I2:1105:TRP:HB2	16:N3:439:ARG:HH21	0.83	0.99
11:I2:1109:LEU:CD1	17:O3:290:TYR:CD2	2.39	0.99
28:Z1:554:PHE:CE1	30:b1:232:PRO:HG2	1.98	0.99
28:Z2:530:LYS:HE2	30:b2:164:CYS:SG	2.02	0.99
28:Z4:534:ASP:CA	30:b4:164:CYS:HB2	1.90	0.99
1:A3:1052:THR:HB	6:D3:813:GLN:C	1.72	0.99
2:A4:868:GLN:HG2	6:D3:608:ILE:HD12	1.22	0.99
2:A4:1148:ARG:HA	3:A6:172:PRO:O	1.62	0.99
3:A5:177:ILE:O	5:C2:743:LEU:HD22	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1309:GLY:C	28:Z4:830:LEU:H	1.70	0.99
9:G1:255:LEU:N	15:M2:602:MET:CA	2.15	0.99
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD23	1.63	0.99
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG22	1.72	0.99
11:I1:1609:GLY:HA3	12:J2:295:TYR:CE1	1.96	0.99
11:I2:880:MET:HE1	15:M3:598:GLU:OE1	1.62	0.99
11:I5:1276:GLN:N	26:X2:521:TRP:CD1	2.31	0.99
28:Z1:524:VAL:CA	30:b1:237:LEU:O	2.11	0.99
28:Z1:524:VAL:HG11	30:b1:236:THR:O	1.61	0.99
28:Z1:531:LYS:NZ	30:b1:166:LEU:HB3	1.76	0.99
28:Z4:438:GLU:HB3	30:b4:314:PRO:HG2	1.42	0.99
28:Z4:524:VAL:CA	30:b4:237:LEU:O	2.11	0.99
1:A1:1201:ARG:CZ	2:A2:734:LEU:CG	2.22	0.99
1:A1:1332:ARG:HH21	6:D1:685:VAL:HB	1.28	0.99
2:A4:861:GLN:CA	6:D3:607:PRO:HD3	1.92	0.99
2:A4:909:LYS:HG3	6:D3:555:ARG:NH1	1.77	0.99
2:A4:1148:ARG:HH11	3:A6:131:PRO:HD3	1.25	0.99
3:A6:1395:LYS:HB3	28:Z4:889:LEU:O	1.63	0.99
11:I1:834:SER:HA	17:O1:237:PRO:O	1.55	0.99
11:I1:978:LYS:CG	20:R1:153:GLN:N	2.26	0.99
11:I2:884:LEU:CG	16:N3:400:LEU:CD1	2.35	0.99
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG22	1.10	0.99
28:Z1:526:ARG:N	30:b1:208:ASN:CG	2.20	0.99
28:Z1:530:LYS:HE2	30:b1:164:CYS:SG	2.02	0.99
28:Z3:554:PHE:CD2	30:b3:233:TRP:C	2.14	0.99
28:Z4:526:ARG:N	30:b4:208:ASN:CG	2.20	0.99
1:A1:1200:ARG:N	2:A2:729:SER:HB2	1.69	0.99
2:A2:866:SER:N	6:D1:605:THR:HA	1.78	0.99
2:A2:868:GLN:O	6:D1:598:ILE:HB	1.62	0.99
2:A2:989:MSE:N	6:D1:500:LYS:HE2	1.77	0.99
2:A4:975:GLU:H	6:D3:499:LEU:HD12	1.20	0.99
3:A6:1358:LEU:HD23	28:Z4:875:LEU:C	1.73	0.99
3:A6:1391:ARG:CD	28:Z4:869:HIS:N	2.11	0.99
9:G1:253:SER:CB	15:M2:601:ASP:HB3	1.64	0.99
11:I1:837:MET:HE1	17:O1:243:LEU:N	1.53	0.99
11:I1:911:PRO:HB2	15:M1:584:GLN:NE2	1.78	0.99
11:I1:923:GLY:CA	15:M1:590:LYS:O	2.10	0.99
11:I2:958:THR:HB	16:N3:399:HIS:CD2	1.97	0.99
11:I2:1037:THR:CB	20:R3:169:GLY:HA2	1.91	0.99
18:P1:276:SER:HB3	18:P4:322:LYS:HE2	1.42	0.99
28:Z3:524:VAL:HG11	30:b3:236:THR:O	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1200:ARG:HE	2:A2:642:ARG:NH2	1.61	0.99
2:A2:989:MSE:SE	6:D1:500:LYS:HD2	2.12	0.99
2:A2:1125:LEU:N	3:A5:136:GLU:HB2	1.78	0.99
2:A2:1135:ARG:HD3	3:A5:158:ALA:N	1.77	0.99
2:A4:983:LEU:CB	6:D3:528:PHE:CE1	2.36	0.99
2:A4:988:ARG:HD2	6:D3:500:LYS:CG	1.93	0.99
3:A5:1392:ARG:CG	28:Z2:866:GLU:C	2.35	0.99
6:D7:481:ARG:CB	11:I3:183:LYS:HE2	1.75	0.99
11:I1:1066:LEU:H	16:N1:430:ARG:CD	1.75	0.99
11:I2:920:PHE:C	15:M3:592:LEU:O	2.06	0.99
11:I2:928:LEU:HD13	20:R3:151:LYS:HE2	1.45	0.99
11:I3:1267:LEU:HD13	26:X1:497:ARG:NH1	1.78	0.99
11:I3:1271:GLU:C	26:X1:525:ILE:CB	2.09	0.99
28:Z3:561:GLN:HB3	30:b3:236:THR:C	1.88	0.99
1:A1:1204:TRP:CD1	2:A2:645:PHE:HE1	1.81	0.99
8:F1:1205:TRP:CD1	17:O2:254:ARG:CD	2.46	0.99
8:F2:1090:PRO:CB	17:O4:245:GLU:OE2	2.10	0.99
11:I1:922:ASP:N	15:M1:592:LEU:HB3	1.78	0.99
11:I1:987:GLY:CA	15:M1:611:LYS:CG	2.26	0.99
11:I1:1051:LYS:CE	17:O1:289:ASP:N	2.18	0.99
11:I1:1667:GLN:O	11:I2:1664:PHE:CD2	1.95	0.99
11:I2:920:PHE:O	15:M3:592:LEU:CA	2.09	0.99
28:Z2:561:GLN:HB3	30:b2:236:THR:C	1.88	0.99
28:Z2:639:LEU:HA	30:b2:232:PRO:HG3	1.44	0.99
28:Z3:524:VAL:CG1	30:b3:236:THR:HB	1.86	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
2:A2:1142:PHE:CZ	3:A5:128:HIS:O	2.15	0.98
2:A2:1143:LEU:HD12	3:A5:131:PRO:CA	1.76	0.98
2:A4:826:ASN:CG	6:D3:633:LYS:HB2	1.87	0.98
2:A4:867:GLU:CD	6:D3:605:THR:HB	1.86	0.98
2:A4:1075:LEU:HD22	3:A6:132:ASP:CG	1.87	0.98
3:A5:157:TRP:HE1	5:C2:747:PRO:HA	1.24	0.98
3:A5:1395:LYS:HA	28:Z2:874:ASN:N	1.78	0.98
3:A6:1390:LEU:HD22	28:Z4:870:ILE:CB	1.91	0.98
3:A6:1399:ARG:NH2	28:Z4:945:VAL:CB	2.27	0.98
11:I1:959:SER:CB	16:N1:395:GLU:HB3	1.92	0.98
11:I1:977:ASN:OD1	15:M1:621:ARG:CB	2.10	0.98
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB1	1.41	0.98
11:I1:1049:LEU:CD1	15:M1:626:HIS:NE2	1.90	0.98
11:I1:1070:LEU:N	16:N1:429:GLU:CB	2.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1611:PHE:C	11:I2:1672:VAL:C	2.30	0.98
11:I2:977:ASN:HB3	20:R3:147:LEU:CA	1.94	0.98
11:I2:1041:GLN:HE21	15:M3:614:ASP:CG	1.71	0.98
28:Z1:555:LYS:CE	30:b1:216:LEU:CD2	2.25	0.98
28:Z3:528:ILE:N	30:b3:208:ASN:ND2	2.05	0.98
1:A1:868:GLN:C	6:D3:280:GLN:HB2	1.88	0.98
1:A1:870:HIS:CD2	6:D3:280:GLN:HA	1.97	0.98
1:A3:1098:ARG:HD2	11:I2:1414:CYS:HB2	1.00	0.98
2:A4:969:ASP:O	6:D3:192:TYR:CZ	2.16	0.98
2:A4:1114:ILE:CD1	5:C4:731:LYS:HB2	1.92	0.98
2:A4:1155:ASN:HD21	5:C4:735:ILE:HA	1.20	0.98
3:A6:221:SER:CB	5:C4:738:ASP:OD1	2.10	0.98
11:I1:1016:ARG:C	16:N1:411:GLN:HG3	1.87	0.98
11:I1:1032:THR:N	20:R1:176:ARG:HB3	1.11	0.98
11:I1:1038:ILE:HB	20:R1:168:LEU:O	1.62	0.98
11:I1:1667:GLN:CG	11:I2:1665:LEU:CG	2.08	0.98
11:I2:931:VAL:C	15:M3:601:ASP:O	2.06	0.98
28:Z1:524:VAL:N	30:b1:238:ASN:CB	2.03	0.98
28:Z1:528:ILE:HG12	30:b1:210:ARG:NH1	1.51	0.98
28:Z1:561:GLN:HB3	30:b1:236:THR:C	1.88	0.98
28:Z3:524:VAL:CA	30:b3:237:LEU:O	2.11	0.98
28:Z3:526:ARG:HB3	30:b3:206:ASN:OD1	1.40	0.98
1:A1:1223:GLU:HG3	2:A2:734:LEU:HD11	1.43	0.98
2:A2:1149:THR:O	3:A5:173:ASN:CB	2.11	0.98
2:A2:1156:ASP:OD2	3:A5:171:HIS:HB3	1.63	0.98
1:A3:1021:LEU:CD1	6:D3:819:ASN:HD22	1.76	0.98
2:A4:864:ARG:HB3	6:D3:608:ILE:H	1.22	0.98
2:A4:1163:TYR:CZ	3:A6:137:HIS:HE1	1.74	0.98
3:A5:1391:ARG:CB	28:Z2:871:HIS:H	1.76	0.98
3:A5:1392:ARG:CD	28:Z2:866:GLU:CB	2.41	0.98
8:F1:1261:TYR:CE2	17:O2:259:ASP:O	2.15	0.98
11:I2:1044:GLY:CA	17:O3:275:LEU:HD12	1.92	0.98
11:I2:1101:LEU:CD2	16:N3:432:TYR:CE1	2.44	0.98
28:Z2:401:THR:C	30:b2:254:SER:HB3	1.80	0.98
28:Z2:524:VAL:N	30:b2:237:LEU:O	1.96	0.98
28:Z2:555:LYS:CE	30:b2:216:LEU:CD2	2.25	0.98
3:A5:1365:VAL:HG22	28:Z2:838:GLN:CA	1.94	0.98
3:A5:1369:ILE:HD11	28:Z2:833:ASP:N	1.77	0.98
3:A6:234:LEU:H	5:C4:737:LYS:HB2	1.26	0.98
9:G1:253:SER:HB2	15:M2:605:THR:HG23	1.44	0.98
9:G1:255:LEU:N	15:M2:602:MET:CB	2.25	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:878:GLN:H	17:O1:252:VAL:N	1.61	0.98
11:I1:921:GLU:HB3	15:M1:596:ILE:CD1	1.91	0.98
11:I1:955:LYS:CD	17:O1:249:ARG:HH22	1.77	0.98
11:I1:1045:PHE:CE1	16:N1:435:ALA:N	2.31	0.98
11:I1:1055:GLU:HG2	17:O1:280:GLU:CB	1.92	0.98
11:I4:1274:HIS:CA	26:X3:526:CYS:SG	2.51	0.98
28:Z1:522:ASN:CG	30:b1:241:PRO:CB	2.34	0.98
1:A1:834:GLU:HB3	6:D3:302:PRO:HG3	1.41	0.98
1:A1:1201:ARG:HD2	2:A2:734:LEU:HD23	1.42	0.98
2:A2:911:TYR:HE2	6:D1:555:ARG:HE	1.03	0.98
1:A3:1201:ARG:H	2:A4:729:SER:C	1.72	0.98
2:A4:970:PHE:CA	6:D3:202:GLN:HG3	1.87	0.98
3:A5:232:LEU:O	5:C2:740:ARG:NE	1.95	0.98
3:A6:1369:ILE:HG12	28:Z4:826:TYR:HA	1.31	0.98
3:A6:1410:ALA:CB	26:X4:744:MET:C	2.35	0.98
9:G1:262:SER:O	16:N2:411:GLN:OE1	1.79	0.98
11:I1:877:ILE:CG2	17:O1:253:LEU:CB	2.32	0.98
11:I1:896:PRO:N	17:O1:233:THR:HA	1.78	0.98
11:I1:1036:PRO:N	16:N1:441:PHE:CZ	2.31	0.98
11:I1:1043:LEU:HA	16:N1:430:ARG:CB	1.94	0.98
11:I1:1066:LEU:HB2	16:N1:430:ARG:HD3	1.40	0.98
11:I2:890:TYR:HD1	17:O3:238:ALA:C	1.66	0.98
11:I2:899:LEU:CD1	17:O3:234:LEU:N	2.24	0.98
11:I2:899:LEU:HD12	17:O3:234:LEU:N	1.79	0.98
11:I2:977:ASN:HB2	20:R3:150:ASN:CB	1.75	0.98
11:I3:1275:SER:H	26:X1:508:LEU:HD21	1.28	0.98
28:Z2:522:ASN:CG	30:b2:241:PRO:CB	2.34	0.98
28:Z2:555:LYS:HG2	30:b2:213:ASP:H	1.24	0.98
28:Z3:530:LYS:HE2	30:b3:164:CYS:SG	2.02	0.98
2:A2:826:ASN:CA	6:D1:633:LYS:HB2	1.91	0.98
2:A2:1122:LEU:HD11	3:A5:135:PHE:CD2	1.98	0.98
3:A5:1405:LEU:N	28:Z2:918:PHE:H	1.32	0.98
3:A6:1312:ARG:CG	28:Z4:830:LEU:CA	2.42	0.98
3:A6:1358:LEU:CG	28:Z4:878:HIS:N	1.99	0.98
11:I1:923:GLY:N	15:M1:592:LEU:CB	2.08	0.98
11:I1:981:VAL:CB	20:R1:147:LEU:CD2	2.42	0.98
11:I1:1110:SER:CB	16:N1:434:LEU:O	2.11	0.98
11:I1:1662:ARG:HD3	11:I2:1603:ARG:HH12	0.98	0.98
11:I2:890:TYR:N	17:O3:242:ARG:HE	1.57	0.98
11:I2:1030:ARG:N	20:R3:172:ASP:C	2.21	0.98
11:I2:1053:GLY:C	17:O3:279:ILE:C	2.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P2:320:GLN:CG	18:P3:278:ASN:CB	2.25	0.98
28:Z1:524:VAL:CG1	30:b1:236:THR:O	2.12	0.98
28:Z2:524:VAL:CG1	30:b2:236:THR:O	2.12	0.98
2:A2:867:GLU:HB3	6:D1:609:ILE:HD11	1.42	0.98
2:A2:1149:THR:CA	5:C2:730:HIS:N	2.18	0.98
2:A2:1164:TYR:O	4:B5:342:ARG:NH1	1.94	0.98
3:A6:1363:ASP:HA	28:Z4:869:HIS:CA	1.93	0.98
11:I1:1030:ARG:N	20:R1:172:ASP:O	1.96	0.98
11:I2:899:LEU:HD22	17:O3:231:ASP:OD1	1.62	0.98
11:I4:1274:HIS:HB2	26:X3:525:ILE:HG22	0.99	0.98
28:Z2:554:PHE:CE1	30:b2:232:PRO:HG2	1.98	0.98
28:Z4:526:ARG:HB2	30:b4:206:ASN:OD1	1.61	0.98
1:A1:874:VAL:CG2	6:D3:272:VAL:CB	2.41	0.98
2:A2:858:ALA:O	6:D1:606:LYS:CE	2.12	0.98
3:A5:1027:HIS:ND1	11:I5:65:LYS:C	2.21	0.98
5:C1:732:LYS:HE2	11:I1:1228:GLU:HG3	1.38	0.98
11:I1:952:LEU:HA	16:N1:400:LEU:HD22	1.19	0.98
11:I1:953:LEU:N	16:N1:403:VAL:CG1	2.23	0.98
11:I1:1038:ILE:CD1	20:R1:167:GLN:OE1	2.12	0.98
11:I2:911:PRO:CB	15:M3:584:GLN:HE21	1.58	0.98
11:I2:1101:LEU:C	16:N3:432:TYR:OH	2.06	0.98
17:O4:110:LEU:CD2	18:P4:321:ILE:CB	2.42	0.98
2:A2:967:GLU:HA	6:D1:202:GLN:OE1	1.62	0.98
3:A5:1391:ARG:CA	28:Z2:871:HIS:CA	2.41	0.98
11:I1:947:LEU:HG	16:N1:408:MET:HA	1.45	0.98
11:I1:976:ARG:HH22	15:M1:622:VAL:CG1	1.66	0.98
11:I1:1109:LEU:H	16:N1:440:GLU:C	1.61	0.98
11:I2:840:LEU:HD22	17:O3:247:TRP:CB	1.92	0.98
11:I2:895:ARG:NH2	16:N3:386:MET:HG3	1.76	0.98
11:I2:895:ARG:HD3	17:O3:234:LEU:HD12	1.46	0.98
11:I2:895:ARG:NH1	16:N3:386:MET:HG3	1.78	0.98
11:I2:965:ALA:CB	20:R3:164:PRO:CA	2.41	0.98
11:I5:1279:THR:OG1	26:X2:520:GLU:CB	2.03	0.98
28:Z1:526:ARG:HB2	30:b1:206:ASN:OD1	1.61	0.98
28:Z3:524:VAL:N	30:b3:237:LEU:O	1.96	0.98
28:Z3:526:ARG:HB2	30:b3:206:ASN:OD1	1.61	0.98
28:Z4:522:ASN:CG	30:b4:241:PRO:CB	2.34	0.98
1:A1:874:VAL:CG2	6:D3:272:VAL:HB	1.92	0.98
2:A2:781:ARG:NE	6:D1:673:ARG:HH11	1.59	0.98
2:A2:989:MSE:HG3	6:D1:500:LYS:HD3	1.45	0.98
2:A2:1114:ILE:CD1	5:C2:731:LYS:HB2	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1138:GLU:HG2	3:A5:167:TRP:HZ2	1.28	0.98
1:A3:1226:LEU:HA	2:A4:728:LYS:CB	1.82	0.98
2:A4:1114:ILE:HD11	5:C4:731:LYS:HB2	1.44	0.98
3:A6:1354:TRP:O	28:Z4:877:ILE:CA	2.10	0.98
3:A6:1410:ALA:CB	26:X4:742:ALA:C	2.33	0.98
11:I1:840:LEU:CB	17:O1:243:LEU:HB2	1.92	0.98
11:I1:919:ALA:CB	16:N1:392:THR:OG1	2.11	0.98
11:I1:920:PHE:HZ	17:O1:247:TRP:CE2	1.79	0.98
11:I1:941:GLY:N	17:O1:259:ASP:O	1.96	0.98
11:I2:991:THR:H	15:M3:611:LYS:HB2	1.27	0.98
11:I2:1029:LEU:HB3	20:R3:174:ARG:CG	1.92	0.98
11:I2:1042:LEU:CD2	15:M3:616:LEU:HD23	1.92	0.98
28:Z1:438:GLU:HB3	30:b1:314:PRO:HG2	1.42	0.98
1:A1:1222:ALA:HA	2:A2:615:LEU:HD13	1.44	0.97
2:A4:864:ARG:NH1	6:D3:610:ASN:CG	2.21	0.97
2:A4:972:GLY:C	6:D3:205:LEU:H	1.52	0.97
2:A4:975:GLU:CA	6:D3:501:LEU:HB2	1.93	0.97
2:A4:980:ARG:CA	6:D3:473:GLU:OE2	2.05	0.97
3:A5:1026:PRO:C	11:I5:67:LYS:C	2.21	0.97
3:A6:1351:MSE:C	28:Z4:918:PHE:CA	2.37	0.97
3:A6:1393:THR:O	28:Z4:908:LEU:CB	2.12	0.97
11:I1:1037:THR:N	15:M1:623:LEU:HD22	1.57	0.97
11:I2:890:TYR:HB2	17:O3:242:ARG:H	1.27	0.97
11:I2:1043:LEU:HA	16:N3:430:ARG:HD2	1.45	0.97
28:Z1:526:ARG:HB3	30:b1:206:ASN:OD1	1.40	0.97
2:A2:865:ALA:N	6:D1:607:PRO:CD	2.27	0.97
2:A2:987:LYS:HD3	6:D1:555:ARG:NE	1.75	0.97
2:A2:1133:GLU:CA	3:A5:138:LEU:HD23	1.81	0.97
1:A3:1223:GLU:HB2	2:A4:676:LEU:HD12	1.42	0.97
2:A4:876:ARG:HD3	6:D3:565:MET:CG	1.93	0.97
3:A5:1365:VAL:HG22	28:Z2:838:GLN:O	1.63	0.97
11:I1:797:LEU:CB	17:O1:245:GLU:HG2	1.94	0.97
11:I1:880:MET:C	17:O1:246:LEU:HD23	1.89	0.97
11:I2:915:ALA:O	15:M3:585:LEU:CB	2.12	0.97
11:I2:1019:LEU:N	16:N3:409:ALA:O	1.97	0.97
11:I2:1021:ILE:CA	16:N3:406:HIS:CE1	2.45	0.97
11:I2:1058:GLY:CA	17:O3:277:GLU:CA	2.42	0.97
11:I2:1100:ILE:CG2	16:N3:433:GLU:CD	2.37	0.97
11:I4:1269:ARG:O	26:X3:528:GLU:N	1.89	0.97
28:Z1:524:VAL:N	30:b1:237:LEU:O	1.96	0.97
28:Z2:524:VAL:CG1	30:b2:236:THR:HB	1.86	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:524:VAL:CG1	30:b3:236:THR:O	2.12	0.97
28:Z4:524:VAL:N	30:b4:237:LEU:O	1.96	0.97
1:A1:1332:ARG:O	6:D1:637:LYS:CD	2.12	0.97
2:A2:980:ARG:CZ	6:D1:525:ARG:HD3	1.94	0.97
2:A2:1157:TYR:HD2	3:A5:174:PRO:O	1.42	0.97
2:A4:869:ALA:HB2	6:D3:583:ILE:HD13	1.43	0.97
2:A4:1149:THR:C	3:A6:173:ASN:O	2.06	0.97
3:A5:1313:LYS:N	28:Z2:830:LEU:O	1.95	0.97
3:A5:1365:VAL:HG22	28:Z2:838:GLN:HA	1.42	0.97
3:A6:146:LYS:CD	5:C4:746:PRO:CA	2.33	0.97
3:A6:1328:ARG:HH11	28:Z4:910:GLN:CB	1.77	0.97
3:A6:1363:ASP:CA	28:Z4:868:GLN:O	2.11	0.97
3:A6:1403:MSE:O	28:Z4:924:ARG:N	1.75	0.97
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HB3	1.28	0.97
9:G2:257:THR:HG22	17:O4:258:GLU:H	1.28	0.97
11:I1:873:ILE:HG23	17:O1:254:ARG:CG	1.92	0.97
11:I1:1049:LEU:CD2	20:R1:146:LEU:CD2	2.42	0.97
11:I1:1052:LEU:O	17:O1:286:ILE:CB	2.13	0.97
11:I1:1108:PRO:CD	16:N1:443:GLU:HB3	1.92	0.97
11:I2:840:LEU:O	15:M3:591:ASP:CG	2.06	0.97
11:I2:899:LEU:HD12	17:O3:233:THR:N	1.79	0.97
11:I2:967:SER:OG	15:M3:625:GLY:CA	2.11	0.97
11:I2:1019:LEU:HD22	16:N3:412:ASN:HD22	1.29	0.97
11:I5:1282:PHE:CE2	29:a2:23[B]:PRO:HG2	1.99	0.97
28:Z2:524:VAL:CA	30:b2:237:LEU:O	2.11	0.97
28:Z2:526:ARG:HB2	30:b2:206:ASN:OD1	1.61	0.97
28:Z3:639:LEU:HA	30:b3:232:PRO:HG3	1.44	0.97
28:Z4:526:ARG:C	30:b4:206:ASN:OD1	2.07	0.97
28:Z4:561:GLN:HB3	30:b4:236:THR:C	1.88	0.97
1:A1:1204:TRP:CZ3	2:A2:734:LEU:HD13	1.98	0.97
2:A2:779:ASP:HA	6:D1:675:ARG:CA	1.94	0.97
2:A2:911:TYR:OH	6:D1:196:ILE:CG2	2.12	0.97
2:A4:975:GLU:HB3	6:D3:501:LEU:HD12	1.25	0.97
2:A4:1126:VAL:CA	3:A6:139:ASN:N	2.24	0.97
2:A4:1155:ASN:N	3:A6:176:LEU:N	2.13	0.97
3:A5:178:GLY:HA2	5:C2:743:LEU:HD23	1.42	0.97
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB1	1.89	0.97
11:I1:923:GLY:N	15:M1:592:LEU:N	2.02	0.97
11:I1:957:SER:CA	20:R1:168:LEU:HG	1.95	0.97
11:I1:987:GLY:HA2	15:M1:614:ASP:HB3	1.46	0.97
11:I1:1037:THR:CG2	20:R1:173:LEU:HB3	1.92	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1052:LEU:HD23	16:N1:434:LEU:CD1	1.94	0.97
11:I1:1104:LEU:C	16:N1:436:ALA:CB	2.37	0.97
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CB	1.93	0.97
11:I2:834:SER:HB3	17:O3:237:PRO:C	1.88	0.97
11:I2:1055:GLU:N	17:O3:278:GLU:HA	1.73	0.97
11:I2:1067:PHE:N	16:N3:430:ARG:CG	2.26	0.97
11:I4:1270:LYS:CE	26:X3:530:ARG:CG	2.41	0.97
17:O4:110:LEU:HD22	18:P4:321:ILE:CG1	1.95	0.97
28:Z3:401:THR:C	30:b3:254:SER:HB3	1.80	0.97
28:Z3:410:ASN:CA	30:b3:251:ILE:CD1	2.15	0.97
1:A1:1226:LEU:H	2:A2:725:GLU:HG3	1.25	0.97
2:A2:1143:LEU:CD1	3:A5:132:ASP:H	1.75	0.97
2:A2:1167:CYS:SG	4:B5:342:ARG:HD2	2.04	0.97
2:A4:975:GLU:O	6:D3:501:LEU:HB2	1.62	0.97
3:A6:1335:ALA:CB	28:Z4:962:LYS:CB	2.42	0.97
5:C1:732:LYS:CE	11:I1:1228:GLU:HG3	1.93	0.97
9:G1:252:LEU:O	15:M2:602:MET:SD	2.22	0.97
9:G1:258:LYS:N	17:O2:253:LEU:CA	2.05	0.97
11:I1:1108:PRO:CB	16:N1:443:GLU:CB	2.41	0.97
11:I2:850:ILE:HG22	15:M3:598:GLU:CD	1.88	0.97
11:I2:916:ALA:HB3	15:M3:586:ASP:O	1.58	0.97
11:I2:1017:VAL:CG1	16:N3:410:MET:CG	2.43	0.97
11:I4:1277:LEU:HD21	26:X3:511:TYR:HE2	1.12	0.97
2:A2:1142:PHE:CE1	3:A5:567:VAL:HG23	1.99	0.97
2:A4:1055:ARG:CD	6:D4:762:ARG:CB	2.34	0.97
3:A5:1005:PHE:CE1	11:I5:67:LYS:NZ	2.31	0.97
3:A5:1363:ASP:N	28:Z2:875:LEU:CB	2.28	0.97
3:A5:1405:LEU:HB2	28:Z2:918:PHE:CB	1.94	0.97
3:A6:1316:VAL:HG21	28:Z4:871:HIS:CA	1.87	0.97
3:A6:1410:ALA:HB2	26:X4:743:PHE:C	1.88	0.97
11:I1:986:ASN:H	15:M1:613:ASP:N	1.43	0.97
11:I1:1032:THR:N	20:R1:176:ARG:O	1.96	0.97
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD22	1.93	0.97
11:I2:981:VAL:N	20:R3:147:LEU:HD21	1.79	0.97
11:I2:1050:SER:O	17:O3:290:TYR:N	1.97	0.97
11:I2:1107:SER:N	16:N3:436:ALA:O	1.98	0.97
17:O3:158:GLU:HG2	18:P3:316:LEU:N	1.77	0.97
28:Z2:524:VAL:HG11	30:b2:236:THR:O	1.61	0.97
2:A2:977:VAL:CA	6:D1:496:LEU:CD1	2.39	0.97
3:A5:1395:LYS:HA	28:Z2:873:LEU:C	1.88	0.97
3:A6:1368:GLN:CA	28:Z4:848:SER:CB	2.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:C	15:M1:594:LYS:HD3	1.74	0.97
11:I1:928:LEU:O	15:M1:601:ASP:OD1	1.83	0.97
11:I1:933:ASP:HA	15:M1:605:THR:HG21	1.44	0.97
11:I1:1103:LEU:CD1	20:R1:175:GLN:NE2	2.28	0.97
11:I1:1607:GLN:OE1	11:I2:1735:PHE:O	1.81	0.97
11:I2:1543:LEU:HD21	12:J1:300:ILE:O	1.17	0.97
17:O2:110:LEU:CD2	18:P2:321:ILE:O	2.07	0.97
17:O3:148:ARG:NH1	18:P3:325:ILE:CG2	2.21	0.97
1:A3:1224:PRO:HB2	2:A4:727:ASN:O	0.80	0.97
2:A4:876:ARG:CD	6:D3:558:LYS:C	2.16	0.97
2:A4:1155:ASN:ND2	5:C4:735:ILE:HA	1.80	0.97
2:A4:1160:GLN:OE1	3:A6:178:GLY:HA2	1.48	0.97
3:A5:1092:ASN:HA	11:I5:33:THR:HG22	1.43	0.97
9:G2:257:THR:HG23	17:O4:256:TYR:N	1.66	0.97
11:I1:887:GLN:CA	17:O1:242:ARG:CB	2.36	0.97
11:I1:918:SER:HB3	16:N1:389:PHE:CG	2.00	0.97
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD13	1.43	0.97
11:I3:715:GLY:H	29:a2:40[A]:GLU:HG2	1.27	0.97
17:O4:111:TYR:CZ	18:P4:321:ILE:HD13	1.98	0.97
28:Z1:524:VAL:HG21	30:b1:236:THR:O	1.18	0.97
28:Z3:555:LYS:CE	30:b3:216:LEU:CD2	2.25	0.97
2:A2:779:ASP:OD2	6:D1:680:SER:HB2	1.65	0.97
2:A2:989:MSE:CG	6:D1:500:LYS:CE	2.28	0.97
2:A2:989:MSE:HE1	6:D1:240:ASP:C	1.89	0.97
2:A2:1149:THR:HG23	3:A5:172:PRO:CG	1.94	0.97
2:A2:1151:THR:HG23	5:C2:734:VAL:N	1.68	0.97
2:A4:978:ASP:H	6:D3:467:PHE:HE1	1.01	0.97
2:A4:1142:PHE:HZ	3:A6:567:VAL:CG2	1.77	0.97
2:A4:1155:ASN:HB2	3:A6:175:GLU:O	1.64	0.97
3:A5:222:ALA:HB1	5:C2:739:MET:HA	0.99	0.97
3:A5:1415:PHE:N	28:Z2:960:CYS:N	2.13	0.97
11:I2:966:TRP:CA	20:R3:154:ALA:H	1.78	0.97
11:I2:989:GLY:CA	15:M3:614:ASP:OD1	2.08	0.97
11:I2:1054:ILE:CA	17:O3:281:ALA:H	1.78	0.97
11:I4:1270:LYS:CE	26:X3:530:ARG:HG2	1.94	0.97
28:Z3:411:LEU:HD23	30:b3:251:ILE:HG23	1.43	0.97
28:Z3:522:ASN:CG	30:b3:241:PRO:CB	2.34	0.97
28:Z4:524:VAL:CG1	30:b4:236:THR:O	2.12	0.97
1:A3:1021:LEU:CB	6:D3:816:VAL:HG12	1.75	0.97
1:A3:1201:ARG:O	2:A4:733:GLY:N	1.98	0.97
2:A4:864:ARG:O	6:D3:608:ILE:HD11	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1094:ILE:HA	6:D4:708:ASP:OD2	1.64	0.97
3:A6:1312:ARG:HG3	28:Z4:830:LEU:HA	1.00	0.97
3:A6:1384:ALA:C	28:Z4:863:ASP:CB	2.37	0.97
3:A6:1385:GLU:HA	28:Z4:863:ASP:H	0.82	0.97
5:C1:732:LYS:CE	11:I1:1225:LYS:HD2	1.95	0.97
11:I2:881:ILE:HA	16:N3:400:LEU:HD13	1.46	0.97
11:I2:884:LEU:CD1	16:N3:400:LEU:CG	2.43	0.97
11:I2:887:GLN:NE2	16:N3:393:ILE:C	2.21	0.97
11:I2:919:ALA:CB	16:N3:392:THR:OG1	2.12	0.97
11:I2:1113:LEU:CD2	17:O3:282:LYS:CE	2.41	0.97
18:P2:319:VAL:CG2	18:P3:278:ASN:CG	2.32	0.97
28:Z1:527:SER:HB2	30:b1:204:GLU:HG3	1.47	0.97
28:Z2:526:ARG:C	30:b2:206:ASN:OD1	2.07	0.97
1:A1:1221:ILE:CD1	2:A2:618:ALA:CB	2.43	0.96
2:A2:858:ALA:C	6:D1:606:LYS:HE2	1.89	0.96
2:A2:1094:ILE:CG1	6:D2:759:GLN:CD	2.37	0.96
1:A3:1220:PRO:HB3	2:A4:646:ILE:HD12	1.47	0.96
2:A4:872:ALA:O	6:D3:565:MET:C	1.99	0.96
2:A4:1138:GLU:O	3:A6:130:ILE:CG1	2.13	0.96
2:A4:1167:CYS:SG	4:B6:342:ARG:HG2	2.00	0.96
3:A5:1368:GLN:NE2	28:Z2:840:PHE:CB	2.27	0.96
8:F1:1265:GLN:CA	17:O2:265:ASN:HB2	1.95	0.96
11:I1:880:MET:HB2	17:O1:250:LEU:N	1.80	0.96
11:I1:939:ASN:ND2	17:O1:265:ASN:OD1	1.80	0.96
11:I1:1104:LEU:CD2	16:N1:433:GLU:CG	2.37	0.96
11:I2:966:TRP:CZ3	20:R3:167:GLN:CB	2.47	0.96
11:I2:1054:ILE:CA	17:O3:281:ALA:N	2.28	0.96
18:P1:276:SER:HB2	18:P4:322:LYS:HE2	1.12	0.96
28:Z3:401:THR:HA	30:b3:253:SER:N	1.80	0.96
2:A4:876:ARG:HD3	6:D3:565:MET:HG2	0.98	0.96
2:A4:968:SER:OG	6:D3:201:LEU:C	2.08	0.96
3:A5:1374:ALA:HB1	28:Z2:823:ALA:CB	1.72	0.96
3:A6:1395:LYS:HD2	28:Z4:893:HIS:CB	1.95	0.96
6:D7:530:ARG:NH1	11:I3:182:VAL:H	1.62	0.96
11:I1:837:MET:HG3	17:O1:238:ALA:O	1.66	0.96
11:I1:1052:LEU:CD2	16:N1:438:LEU:CG	2.24	0.96
11:I1:1066:LEU:H	16:N1:430:ARG:HG2	1.17	0.96
11:I2:1035:GLN:N	16:N3:441:PHE:CZ	2.14	0.96
11:I2:1036:PRO:HG3	17:O3:287:LEU:HD21	1.47	0.96
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB3	1.85	0.96
28:Z2:411:LEU:HD23	30:b2:251:ILE:HG23	1.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:526:ARG:C	30:b3:206:ASN:OD1	2.07	0.96
2:A2:973:GLU:HB3	6:D1:205:LEU:HD22	1.44	0.96
2:A2:1133:GLU:HA	3:A5:138:LEU:HD22	1.44	0.96
2:A4:982:THR:O	6:D3:497:PHE:CD1	2.05	0.96
3:A5:1374:ALA:HB2	28:Z2:823:ALA:HB1	1.42	0.96
3:A6:1160:GLN:NE2	5:C6:740:ARG:HD2	1.79	0.96
11:I2:976:ARG:NE	20:R3:143:PHE:O	1.98	0.96
11:I2:1044:GLY:O	17:O3:280:GLU:HG2	1.65	0.96
1:A1:1221:ILE:CG2	2:A2:642:ARG:O	1.97	0.96
2:A2:869:ALA:O	6:D1:548:LEU:HD21	1.65	0.96
1:A3:1056:PHE:CZ	6:D3:807:THR:O	2.19	0.96
2:A4:866:SER:C	6:D3:598:ILE:CG1	2.38	0.96
3:A5:1391:ARG:HB3	28:Z2:867:LYS:O	1.61	0.96
4:B6:345:LYS:N	5:C4:737:LYS:HZ2	1.60	0.96
11:I1:981:VAL:HG13	20:R1:151:LYS:HG3	1.46	0.96
11:I1:1665:LEU:CG	11:I2:1667:GLN:CG	2.24	0.96
11:I2:1030:ARG:N	20:R3:173:LEU:N	2.11	0.96
11:I2:1038:ILE:HD13	15:M3:620:VAL:HB	1.45	0.96
11:I2:1040:HIS:HB3	16:N3:434:LEU:HD13	1.45	0.96
1:A3:1197:ALA:HB1	2:A4:728:LYS:CG	1.93	0.96
2:A4:982:THR:O	6:D3:497:PHE:HD1	1.37	0.96
3:A5:1160:GLN:NE2	5:C5:740:ARG:HD2	1.79	0.96
3:A6:1319:ILE:HG21	28:Z4:874:ASN:HA	1.42	0.96
8:F1:1267:ARG:NE	17:O2:265:ASN:OD1	1.99	0.96
9:G1:254:ASN:CG	15:M2:605:THR:HB	1.87	0.96
9:G2:255:LEU:CD1	17:O4:262:ASP:OD1	2.13	0.96
11:I1:1037:THR:HG21	20:R1:173:LEU:HB3	1.47	0.96
11:I1:1667:GLN:CG	11:I2:1665:LEU:CB	2.29	0.96
11:I2:884:LEU:HD23	15:M3:595:MET:SD	2.05	0.96
11:I2:976:ARG:HH11	20:R3:146:LEU:C	1.74	0.96
11:I3:1275:SER:CA	26:X1:522:MET:HB3	1.94	0.96
28:Z4:401:THR:C	30:b4:254:SER:HB3	1.80	0.96
28:Z4:411:LEU:HD23	30:b4:251:ILE:HG23	1.43	0.96
1:A1:1204:TRP:CH2	2:A2:757:LEU:CD2	2.48	0.96
2:A4:976:LEU:CD2	6:D3:472:PHE:HD2	1.79	0.96
2:A4:1075:LEU:CD2	3:A6:132:ASP:OD2	2.13	0.96
2:A4:1149:THR:O	3:A6:173:ASN:O	1.82	0.96
3:A5:166:LEU:CG	5:C2:741:THR:O	2.12	0.96
3:A5:222:ALA:CA	5:C2:738:ASP:O	0.66	0.96
3:A6:1369:ILE:HG13	28:Z4:826:TYR:HA	1.48	0.96
11:I1:924:ILE:HD13	15:M1:595:MET:HG2	0.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1041:GLN:CA	15:M1:620:VAL:HG23	1.94	0.96
11:I1:1114:VAL:HG23	16:N1:435:ALA:HB3	1.42	0.96
11:I2:968:PRO:HD3	20:R3:153:GLN:HB2	0.97	0.96
17:O4:106:HIS:O	18:P4:318:PRO:HG2	1.64	0.96
2:A2:225:THR:HG21	6:D1:706:HIS:HB3	1.48	0.96
2:A2:781:ARG:NE	6:D1:673:ARG:CB	2.28	0.96
2:A2:986:THR:HG21	6:D1:504:LYS:HD2	1.47	0.96
1:A3:1052:THR:CG2	6:D3:816:VAL:HG23	1.95	0.96
1:A3:1084:ARG:CG	6:D3:794:THR:HA	1.93	0.96
3:A5:230:LYS:C	5:C2:739:MET:H	1.74	0.96
3:A5:1029:ILE:HG23	11:I5:70:GLU:CA	1.95	0.96
9:G2:263:MET:SD	17:O4:263:GLN:CB	2.53	0.96
11:I1:952:LEU:HD12	16:N1:400:LEU:CG	1.94	0.96
11:I1:1036:PRO:C	20:R1:173:LEU:CD2	2.31	0.96
11:I1:1066:LEU:CB	16:N1:430:ARG:CD	2.44	0.96
17:O4:111:TYR:HD1	18:P4:325:ILE:CD1	1.78	0.96
28:Z1:401:THR:HA	30:b1:253:SER:N	1.80	0.96
2:A2:874:VAL:HG11	6:D1:611:LYS:HB3	1.46	0.96
2:A2:987:LYS:HD2	6:D1:555:ARG:CZ	1.96	0.96
2:A4:970:PHE:N	6:D3:202:GLN:CD	2.21	0.96
2:A4:1125:LEU:O	3:A6:140:ALA:HB3	1.64	0.96
2:A4:1155:ASN:H	3:A6:175:GLU:CG	1.79	0.96
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB3	0.98	0.96
3:A5:1401:VAL:O	28:Z2:918:PHE:CB	2.14	0.96
11:I1:956:ILE:HG23	20:R1:166:LEU:HB3	1.45	0.96
11:I1:1036:PRO:O	15:M1:624:ASN:CA	2.13	0.96
11:I2:879:VAL:O	17:O3:246:LEU:O	1.84	0.96
11:I2:884:LEU:HD21	15:M3:595:MET:SD	2.05	0.96
11:I2:1054:ILE:N	17:O3:279:ILE:C	2.11	0.96
28:Z3:407:GLY:O	30:b3:251:ILE:CG1	2.14	0.96
1:A1:1221:ILE:HD12	2:A2:618:ALA:CB	1.94	0.96
2:A2:227:SER:HB3	6:D1:711:PHE:HB3	1.48	0.96
2:A4:1161:ALA:CB	3:A6:137:HIS:NE2	2.28	0.96
3:A5:179:TYR:O	5:C2:744:PHE:HD1	1.47	0.96
3:A5:232:LEU:HD12	5:C2:740:ARG:C	1.91	0.96
3:A5:1090:SER:C	11:I5:36:GLU:HG3	1.89	0.96
8:F1:1264:ARG:HB3	17:O2:263:GLN:HA	1.45	0.96
9:G1:255:LEU:H	15:M2:602:MET:CB	1.71	0.96
11:I1:846:ILE:HD13	15:M1:594:LYS:HB3	0.97	0.96
11:I1:950:LEU:CD2	16:N1:406:HIS:HD2	1.61	0.96
11:I1:976:ARG:HH22	15:M1:622:VAL:HG11	1.16	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1021:ILE:HG13	16:N1:410:MET:HB2	0.97	0.96
11:I1:1037:THR:HG22	20:R1:173:LEU:HD23	0.99	0.96
11:I1:1069:SER:C	16:N1:429:GLU:CG	2.24	0.96
11:I1:1607:GLN:NE2	11:I2:1736:LEU:HD12	1.81	0.96
11:I2:1018:LYS:N	16:N3:413:VAL:H	1.63	0.96
28:Z1:526:ARG:C	30:b1:206:ASN:OD1	2.07	0.96
28:Z2:407:GLY:O	30:b2:251:ILE:CG1	2.14	0.96
2:A2:878:LEU:CD1	6:D1:608:ILE:HG23	1.95	0.96
2:A2:1136:LYS:CG	3:A5:134:VAL:O	2.13	0.96
2:A2:1158:ALA:HA	3:A5:133:LYS:NZ	1.81	0.96
2:A4:861:GLN:NE2	6:D3:607:PRO:HB3	1.80	0.96
2:A4:986:THR:HG22	6:D3:504:LYS:HG3	1.45	0.96
3:A5:1026:PRO:CG	11:I5:73:TYR:CG	2.48	0.96
3:A5:1406:GLY:N	28:Z2:917:ASP:C	2.22	0.96
3:A6:177:ILE:HD13	5:C4:736:ASN:O	1.64	0.96
3:A6:1385:GLU:O	28:Z4:863:ASP:N	1.80	0.96
3:A6:1387:ILE:CB	28:Z4:864:PHE:CA	1.98	0.96
11:I1:874:LEU:HD23	17:O1:252:VAL:HA	1.48	0.96
11:I1:884:LEU:HD12	16:N1:400:LEU:HD11	1.39	0.96
11:I1:885:GLU:HA	16:N1:397:GLU:CG	1.94	0.96
11:I1:1045:PHE:HZ	16:N1:431:VAL:O	1.38	0.96
11:I1:1603:ARG:NH1	11:I2:1662:ARG:CD	2.21	0.96
11:I2:881:ILE:HG13	17:O3:250:LEU:HA	1.47	0.96
28:Z2:410:ASN:HD21	30:b2:252:ALA:HB2	0.91	0.96
28:Z4:639:LEU:HA	30:b4:232:PRO:HG3	1.44	0.96
1:A1:1224:PRO:CD	2:A2:731:ILE:CB	2.44	0.95
2:A2:864:ARG:CZ	6:D1:610:ASN:OD1	2.13	0.95
2:A2:875:LEU:HD23	6:D1:566:PHE:C	1.90	0.95
2:A2:1156:ASP:N	3:A5:175:GLU:N	2.13	0.95
2:A4:904:GLN:HE21	6:D3:603:SER:N	1.35	0.95
3:A5:1026:PRO:HG3	11:I5:73:TYR:CG	2.00	0.95
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CB	1.96	0.95
9:G1:252:LEU:HD22	17:O2:254:ARG:HD3	1.47	0.95
11:I1:1033:PRO:O	16:N1:441:PHE:CE1	2.19	0.95
11:I2:898:VAL:HG23	17:O3:236:ASP:CA	1.96	0.95
11:I2:1020:ALA:HB3	16:N3:410:MET:H	0.80	0.95
11:I2:1031:ALA:CB	20:R3:168:LEU:CD2	2.43	0.95
11:I2:1067:PHE:CD1	16:N3:429:GLU:O	2.18	0.95
11:I2:1105:TRP:HB2	16:N3:439:ARG:NH2	1.64	0.95
11:I3:1274:HIS:C	26:X1:508:LEU:CD2	2.21	0.95
28:Z2:534:ASP:CA	30:b2:164:CYS:CB	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:879:LEU:HB2	6:D3:564:ASN:CG	1.90	0.95
2:A4:967:GLU:C	6:D3:202:GLN:HB3	1.83	0.95
11:I1:841:PHE:CD2	17:O1:243:LEU:HD11	1.90	0.95
11:I1:931:VAL:CG2	15:M1:603:SER:OG	2.13	0.95
11:I1:976:ARG:NH1	15:M1:622:VAL:CG2	2.29	0.95
11:I1:1037:THR:HB	20:R1:173:LEU:CG	1.96	0.95
11:I1:1037:THR:C	20:R1:169:GLY:HA2	1.92	0.95
11:I2:1059:PRO:HA	17:O3:273:ASP:O	1.66	0.95
17:O3:102:LYS:CG	18:P3:322:LYS:HE3	1.96	0.95
28:Z1:528:ILE:HG13	30:b1:210:ARG:CZ	1.95	0.95
28:Z3:531:LYS:CD	30:b3:183:LEU:CA	2.36	0.95
28:Z4:401:THR:HA	30:b4:253:SER:N	1.80	0.95
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG13	1.98	0.95
2:A2:227:SER:CB	6:D1:711:PHE:CD2	2.43	0.95
2:A2:989:MSE:H	6:D1:500:LYS:HE3	0.81	0.95
2:A2:1054:SER:O	6:D2:762:ARG:CB	2.00	0.95
2:A4:1157:TYR:CE2	3:A6:131:PRO:CB	2.33	0.95
3:A6:1355:VAL:HA	28:Z4:877:ILE:HA	1.45	0.95
11:I1:833:PHE:CE2	17:O1:238:ALA:C	2.42	0.95
11:I1:1029:LEU:HD13	20:R1:174:ARG:HD3	1.45	0.95
11:I1:1108:PRO:HB2	16:N1:443:GLU:N	1.76	0.95
11:I2:797:LEU:CD2	17:O3:245:GLU:CG	2.44	0.95
11:I2:880:MET:N	17:O3:250:LEU:N	1.95	0.95
11:I2:889:THR:HB	17:O3:242:ARG:CD	1.96	0.95
11:I2:984:GLU:HB2	15:M3:618:GLN:HE21	1.24	0.95
11:I2:1046:HIS:N	17:O3:280:GLU:CA	2.26	0.95
11:I3:1267:LEU:CG	26:X1:529:TRP:CD2	2.48	0.95
11:I4:1273:GLU:O	26:X3:523:LEU:CA	1.98	0.95
11:I4:1274:HIS:CG	26:X3:525:ILE:O	2.20	0.95
28:Z2:443:LEU:HD21	30:b2:250:GLY:CA	1.97	0.95
28:Z3:410:ASN:HD21	30:b3:252:ALA:HB2	0.91	0.95
28:Z4:443:LEU:HD21	30:b4:250:GLY:CA	1.97	0.95
2:A2:781:ARG:HE	6:D1:673:ARG:NH1	1.63	0.95
2:A2:1134:GLU:HG3	3:A5:146:LYS:HG3	1.44	0.95
2:A4:231:SER:OG	6:D3:709:ARG:NH2	1.99	0.95
3:A5:177:ILE:C	5:C2:743:LEU:CD2	2.38	0.95
3:A5:177:ILE:CD1	5:C2:740:ARG:NE	2.29	0.95
3:A6:209:VAL:HG22	5:C4:742:ASP:CG	1.89	0.95
3:A6:1316:VAL:HG22	28:Z4:871:HIS:HA	0.95	0.95
6:D7:531:LEU:N	11:I3:181:GLN:HG2	1.81	0.95
11:I1:843:GLU:OE1	15:M1:590:LYS:HD2	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:934:LEU:HA	15:M1:602:MET:SD	2.05	0.95
11:I1:976:ARG:NH1	15:M1:622:VAL:CB	2.10	0.95
11:I1:980:ILE:CA	15:M1:617:THR:O	2.13	0.95
11:I1:1042:LEU:O	16:N1:430:ARG:NH2	2.00	0.95
11:I1:1066:LEU:HB3	16:N1:430:ARG:CB	1.95	0.95
11:I1:1108:PRO:CB	16:N1:443:GLU:HB2	1.96	0.95
11:I2:873:ILE:HG21	17:O3:258:GLU:HG3	1.47	0.95
11:I2:954:GLU:CB	16:N3:403:VAL:HA	1.96	0.95
11:I2:966:TRP:CA	20:R3:154:ALA:N	2.28	0.95
11:I2:1053:GLY:O	17:O3:279:ILE:O	1.83	0.95
11:I3:1277:LEU:HD22	26:X1:513:PHE:HB2	1.47	0.95
28:Z3:443:LEU:HD21	30:b3:250:GLY:CA	1.97	0.95
28:Z4:527:SER:HB2	30:b4:204:GLU:HG3	1.47	0.95
2:A2:980:ARG:HG3	6:D1:526:LEU:H	1.23	0.95
2:A4:878:LEU:HB3	6:D3:567:LEU:HD13	1.49	0.95
2:A4:1135:ARG:N	3:A6:145:THR:CB	2.10	0.95
2:A4:1139:ILE:N	3:A6:138:LEU:HD11	1.70	0.95
2:A4:1143:LEU:CD1	3:A6:134:VAL:H	1.79	0.95
3:A6:1372:THR:OG1	28:Z4:825:TYR:N	1.99	0.95
3:A6:1395:LYS:HG2	28:Z4:889:LEU:CA	1.95	0.95
6:D7:530:ARG:CB	11:I3:181:GLN:CB	2.34	0.95
11:I2:895:ARG:CZ	16:N3:386:MET:HG3	1.96	0.95
11:I2:925:LEU:CD1	20:R3:156:GLY:H	1.79	0.95
11:I2:945:LEU:CD1	17:O3:258:GLU:N	2.16	0.95
11:I2:1045:PHE:O	15:M3:619:ILE:HD12	1.66	0.95
17:O3:162:LYS:CG	18:P3:315:GLU:OE1	2.14	0.95
17:O4:110:LEU:HD21	18:P4:321:ILE:H	1.28	0.95
1:A3:1084:ARG:CG	6:D3:794:THR:CB	2.33	0.95
3:A5:177:ILE:C	5:C2:743:LEU:HD23	1.90	0.95
3:A5:229:SER:HA	5:C2:739:MET:CE	1.97	0.95
3:A5:1369:ILE:HG12	28:Z2:828:LEU:O	1.61	0.95
3:A6:166:LEU:HB2	5:C4:740:ARG:HB3	0.96	0.95
3:A6:1361:ARG:CZ	28:Z4:879:PHE:CB	2.45	0.95
3:A6:1388:ALA:C	28:Z4:866:GLU:CB	2.40	0.95
8:F2:1089:PRO:O	17:O4:245:GLU:HA	1.66	0.95
11:I1:1066:LEU:O	16:N1:429:GLU:HB2	1.66	0.95
11:I2:841:PHE:CD1	15:M3:588:MET:CG	2.48	0.95
11:I2:920:PHE:C	15:M3:592:LEU:C	2.34	0.95
11:I3:715:GLY:H	29:a2:40[A]:GLU:CG	1.78	0.95
28:Z3:527:SER:HB2	30:b3:204:GLU:HG3	1.47	0.95
28:Z4:407:GLY:O	30:b4:251:ILE:CG1	2.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:524:VAL:HA	30:b4:236:THR:CG2	1.96	0.95
1:A1:1332:ARG:CZ	6:D1:682:ASN:H	1.80	0.95
2:A4:985:ALA:HA	6:D3:500:LYS:N	1.80	0.95
3:A5:1363:ASP:CB	28:Z2:871:HIS:O	2.06	0.95
3:A6:1395:LYS:HA	28:Z4:889:LEU:CB	1.97	0.95
3:A6:1406:GLY:N	28:Z4:924:ARG:N	2.10	0.95
8:F1:1138:TRP:CG	17:O2:244:GLU:CD	2.44	0.95
11:I1:1036:PRO:O	15:M1:624:ASN:N	2.00	0.95
11:I1:1037:THR:HB	20:R1:173:LEU:HD13	1.48	0.95
28:Z1:407:GLY:O	30:b1:251:ILE:CG1	2.14	0.95
2:A2:781:ARG:HE	6:D1:673:ARG:CB	1.79	0.95
2:A2:982:THR:CG2	6:D1:494:LEU:CA	2.45	0.95
2:A2:1151:THR:HA	5:C2:733:LEU:HD12	0.96	0.95
1:A3:1052:THR:OG1	6:D3:816:VAL:CG2	2.13	0.95
2:A4:172:PRO:CB	6:D3:781:ARG:HD3	1.96	0.95
2:A4:778:PHE:HB3	6:D3:675:ARG:O	1.65	0.95
3:A5:1399:ARG:CZ	28:Z2:909:LEU:CB	2.44	0.95
5:C3:732:LYS:HZ1	11:I2:1225:LYS:CD	1.71	0.95
11:I1:882:LYS:HB2	17:O1:245:GLU:O	1.65	0.95
11:I1:991:THR:HG23	15:M1:609:GLY:N	1.78	0.95
11:I1:1041:GLN:HB2	15:M1:620:VAL:H	1.28	0.95
11:I1:1110:SER:OG	16:N1:434:LEU:O	1.84	0.95
11:I2:920:PHE:HZ	17:O3:247:TRP:CE3	1.75	0.95
11:I2:951:LYS:HB3	17:O3:253:LEU:HD22	0.96	0.95
11:I2:1032:THR:HB	20:R3:173:LEU:HD11	0.99	0.95
11:I3:1277:LEU:CD1	26:X1:511:TYR:CD2	2.42	0.95
17:O3:148:ARG:NE	18:P3:325:ILE:CG2	2.30	0.95
17:O3:155:VAL:HB	18:P3:321:ILE:CG2	1.96	0.95
28:Z1:443:LEU:HD21	30:b1:250:GLY:CA	1.97	0.95
2:A2:877:ALA:N	6:D1:563:GLU:OE1	1.84	0.95
2:A2:974:PRO:CD	6:D1:205:LEU:CD2	2.05	0.95
2:A2:1135:ARG:NH1	3:A5:167:TRP:CZ2	2.06	0.95
2:A2:1155:ASN:ND2	5:C2:735:ILE:HA	1.80	0.95
2:A4:864:ARG:CA	6:D3:607:PRO:HD2	1.96	0.95
3:A5:1369:ILE:HG21	28:Z2:830:LEU:C	1.48	0.95
3:A5:1391:ARG:HA	28:Z2:871:HIS:HA	1.48	0.95
3:A6:1307:PHE:HD2	28:Z4:833:ASP:O	1.48	0.95
11:I1:950:LEU:HB3	16:N1:407:ALA:H	1.11	0.95
11:I1:976:ARG:CZ	15:M1:622:VAL:HG22	1.96	0.95
11:I2:874:LEU:N	17:O3:255:GLY:CA	2.25	0.95
11:I2:940:LEU:HD12	17:O3:258:GLU:O	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:952:LEU:CD2	15:M3:602:MET:CB	2.45	0.95
11:I4:1269:ARG:O	26:X3:528:GLU:HB2	1.64	0.95
11:I4:1277:LEU:N	26:X3:519:ILE:O	1.99	0.95
28:Z1:524:VAL:HA	30:b1:236:THR:CG2	1.97	0.95
2:A2:1141:GLU:H	3:A5:130:ILE:CB	1.80	0.95
2:A4:879:LEU:H	6:D3:567:LEU:CD1	1.78	0.95
2:A4:976:LEU:HD21	6:D3:501:LEU:O	1.67	0.95
2:A4:1143:LEU:CD1	3:A6:134:VAL:N	2.24	0.95
3:A5:164:LEU:CD1	5:C2:745:SER:N	2.26	0.95
3:A5:1026:PRO:CA	11:I5:68:ILE:N	2.29	0.95
3:A6:1365:VAL:CA	28:Z4:845:ILE:CB	2.44	0.95
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD2	1.26	0.95
9:G2:254:ASN:HB2	17:O4:265:ASN:ND2	1.80	0.95
11:I1:836:VAL:HG12	17:O1:244:GLU:HB2	1.49	0.95
11:I1:1041:GLN:HG2	15:M1:616:LEU:HG	1.46	0.95
11:I1:1662:ARG:HA	11:I2:1667:GLN:NE2	1.64	0.95
11:I2:948:ALA:HB1	17:O3:253:LEU:O	1.65	0.95
11:I5:1280:PRO:HG3	26:X2:523:LEU:HD12	1.48	0.95
28:Z2:401:THR:HA	30:b2:253:SER:N	1.81	0.95
28:Z4:528:ILE:N	30:b4:208:ASN:ND2	2.05	0.95
1:A1:834:GLU:HB2	6:D3:302:PRO:CG	1.96	0.94
2:A2:223:THR:CB	6:D1:709:ARG:NH2	2.30	0.94
2:A2:1133:GLU:O	3:A5:138:LEU:HD21	1.66	0.94
1:A3:1054:SER:OG	6:D3:810:ARG:HA	1.66	0.94
1:A3:1221:ILE:HD11	2:A4:642:ARG:HA	1.48	0.94
3:A5:1313:LYS:HB2	28:Z2:830:LEU:O	1.65	0.94
3:A6:1367:THR:HG21	28:Z4:849:ALA:O	1.34	0.94
11:I1:921:GLU:OE2	16:N1:392:THR:O	1.85	0.94
11:I1:1043:LEU:O	16:N1:430:ARG:CG	2.14	0.94
11:I1:1065:SER:OG	16:N1:430:ARG:CG	2.15	0.94
11:I1:1118:LEU:HD11	16:N1:432:TYR:CE2	2.02	0.94
11:I1:1667:GLN:CD	11:I2:1661:GLY:O	2.08	0.94
11:I2:956:ILE:HG21	15:M3:600:ASN:OD1	1.66	0.94
11:I2:1031:ALA:HB1	20:R3:168:LEU:HD22	1.44	0.94
1:A3:1221:ILE:CD1	2:A4:642:ARG:HA	1.97	0.94
3:A6:190:ALA:HB2	5:C4:748:ASN:HD21	1.29	0.94
3:A6:1412:MSE:H	28:Z4:964:LEU:CB	1.66	0.94
9:G1:252:LEU:C	15:M2:602:MET:SD	2.51	0.94
11:I1:963:LEU:HD21	20:R1:176:ARG:NH2	1.81	0.94
11:I2:890:TYR:CB	17:O3:242:ARG:CB	2.44	0.94
11:I2:946:THR:N	17:O3:260:LEU:N	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:964:SER:C	20:R3:153:GLN:NE2	2.24	0.94
11:I2:1037:THR:HG21	20:R3:169:GLY:HA2	0.95	0.94
11:I2:1040:HIS:HB2	15:M3:619:ILE:CG2	1.95	0.94
11:I3:1275:SER:HA	26:X1:508:LEU:CD2	1.80	0.94
1:A1:1204:TRP:CZ2	2:A2:676:LEU:CD1	2.49	0.94
2:A4:987:LYS:HE3	6:D3:555:ARG:HG2	1.48	0.94
2:A4:1141:GLU:HB3	3:A6:130:ILE:CG1	1.97	0.94
3:A5:1360:GLY:C	28:Z2:875:LEU:CB	2.34	0.94
3:A5:1398:LYS:HB3	28:Z2:873:LEU:O	1.67	0.94
11:I1:879:VAL:HG12	17:O1:244:GLU:O	1.65	0.94
11:I1:887:GLN:HB2	16:N1:393:ILE:HG21	1.50	0.94
11:I1:923:GLY:HA3	15:M1:591:ASP:CA	1.97	0.94
11:I1:1024:PHE:HB3	16:N1:406:HIS:CB	1.83	0.94
11:I1:1665:LEU:HD12	11:I2:1667:GLN:NE2	1.82	0.94
28:Z3:535:ILE:HG12	30:b3:182:PRO:CG	1.96	0.94
1:A3:1048:ARG:CZ	6:D3:790:ARG:NH2	2.30	0.94
2:A4:1138:GLU:OE1	3:A6:147:LEU:HA	1.67	0.94
2:A4:1151:THR:HA	5:C4:733:LEU:HD12	0.96	0.94
11:I1:895:ARG:HE	17:O1:233:THR:HG22	0.79	0.94
11:I1:916:ALA:C	16:N1:389:PHE:CZ	2.39	0.94
11:I1:990:GLU:HG2	17:O1:275:LEU:CG	1.98	0.94
11:I1:1048:GLU:OE2	20:R1:143:PHE:HB2	1.67	0.94
11:I1:1611:PHE:HB3	11:I2:1672:VAL:HG22	1.48	0.94
11:I3:715:GLY:C	29:a2:40[A]:GLU:OE2	2.10	0.94
11:I4:1279:THR:CG2	26:X3:520:GLU:O	2.16	0.94
1:A1:1332:ARG:HG2	6:D1:636:ASP:HB3	1.46	0.94
2:A2:874:VAL:CG1	6:D1:611:LYS:CB	2.44	0.94
2:A2:988:ARG:CB	6:D1:500:LYS:HZ3	1.60	0.94
1:A3:1220:PRO:HG3	2:A4:732:GLN:OE1	1.66	0.94
2:A4:172:PRO:CB	6:D3:781:ARG:CD	2.45	0.94
3:A6:233:THR:OG1	5:C4:738:ASP:CG	2.11	0.94
6:D3:743:HIS:HD2	11:I2:1528:ARG:HD2	1.30	0.94
11:I1:946:THR:C	16:N1:407:ALA:HB1	1.91	0.94
11:I1:981:VAL:HG11	20:R1:151:LYS:HB2	0.98	0.94
11:I1:1668:HIS:CB	11:I2:1668:HIS:HB2	1.96	0.94
11:I2:885:GLU:CA	16:N3:397:GLU:CG	2.41	0.94
11:I2:896:PRO:N	17:O3:233:THR:O	2.00	0.94
11:I2:981:VAL:HB	20:R3:147:LEU:CG	1.96	0.94
11:I2:1017:VAL:HG13	16:N3:410:MET:HG2	0.96	0.94
11:I2:1018:LYS:H	16:N3:413:VAL:H	1.00	0.94
11:I2:1101:LEU:O	16:N3:432:TYR:OH	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:528:ILE:N	30:b1:208:ASN:ND2	2.05	0.94
28:Z2:524:VAL:HA	30:b2:236:THR:CG2	1.97	0.94
28:Z3:528:ILE:HG13	30:b3:210:ARG:CZ	1.95	0.94
2:A2:1094:ILE:CD1	6:D2:759:GLN:HE22	1.76	0.94
2:A4:867:GLU:CD	6:D3:593:ARG:HH21	1.74	0.94
2:A4:1146:PRO:HD2	3:A6:129:ASN:ND2	1.82	0.94
3:A5:1091:VAL:HG13	11:I5:36:GLU:OE1	1.66	0.94
3:A6:157:TRP:HH2	5:C4:747:PRO:CA	1.80	0.94
3:A6:165:PHE:CZ	5:C4:743:LEU:CD2	2.50	0.94
3:A6:1316:VAL:HG11	28:Z4:871:HIS:H	1.12	0.94
3:A6:1323:VAL:CG1	28:Z4:912:ASP:HA	1.92	0.94
5:C1:732:LYS:CE	11:I1:1228:GLU:CG	2.44	0.94
11:I1:873:ILE:HG23	17:O1:254:ARG:CD	1.96	0.94
11:I2:890:TYR:CA	17:O3:242:ARG:HG3	1.98	0.94
11:I2:988:GLU:OE1	15:M3:612:PRO:C	2.10	0.94
28:Z1:534:ASP:CA	30:b1:164:CYS:CB	2.44	0.94
28:Z3:402:GLY:C	30:b3:273:LYS:HB3	1.93	0.94
28:Z4:534:ASP:CA	30:b4:164:CYS:CB	2.44	0.94
2:A4:1139:ILE:CA	3:A6:130:ILE:HG21	1.98	0.94
3:A6:1398:LYS:C	28:Z4:886:LEU:CB	2.30	0.94
11:I1:873:ILE:HG23	17:O1:254:ARG:HD2	1.46	0.94
11:I1:934:LEU:CA	15:M1:602:MET:CE	2.29	0.94
11:I1:955:LYS:CE	16:N1:397:GLU:CA	2.45	0.94
11:I1:1047:CYS:O	20:R1:143:PHE:HE1	1.51	0.94
11:I2:890:TYR:HB3	17:O3:242:ARG:CB	1.97	0.94
11:I2:898:VAL:CG2	17:O3:237:PRO:N	2.30	0.94
11:I2:952:LEU:CD2	15:M3:602:MET:CG	2.42	0.94
11:I2:1039:ALA:HB2	20:R3:170:LEU:CG	1.49	0.94
11:I2:1051:LYS:CE	17:O3:289:ASP:OD1	2.15	0.94
11:I3:1239:ASP:HB3	26:X1:116:ARG:HH21	1.32	0.94
11:I4:1277:LEU:HD11	26:X3:521:TRP:CE3	1.99	0.94
17:O1:103:VAL:HG13	18:P1:326:GLN:HE21	0.96	0.94
28:Z1:535:ILE:HG12	30:b1:182:PRO:CG	1.96	0.94
2:A2:782:VAL:N	6:D1:676:ALA:C	2.25	0.94
2:A2:823:VAL:C	2:A2:856:PHE:HE1	1.76	0.94
2:A2:973:GLU:HB3	6:D1:498:GLU:HG3	1.49	0.94
2:A2:974:PRO:C	6:D1:499:LEU:HG	1.92	0.94
2:A2:1157:TYR:HD2	3:A5:174:PRO:CA	1.64	0.94
1:A3:835:THR:CG2	6:D1:302:PRO:HG2	1.96	0.94
2:A4:868:GLN:HG3	6:D3:608:ILE:HG21	1.49	0.94
2:A4:975:GLU:HB2	6:D3:501:LEU:HD12	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:978:ASP:HB3	6:D3:476:VAL:HG23	1.27	0.94
2:A4:1120:ASP:C	3:A6:136:GLU:OE1	2.10	0.94
2:A4:1125:LEU:O	3:A6:137:HIS:CA	2.14	0.94
3:A5:189:VAL:O	5:C2:746:PRO:O	1.86	0.94
3:A5:1395:LYS:HE2	28:Z2:872:TYR:CB	1.98	0.94
11:I1:846:ILE:CD1	15:M1:594:LYS:CG	2.46	0.94
11:I1:922:ASP:CA	15:M1:592:LEU:HB3	1.98	0.94
11:I1:925:LEU:CB	20:R1:164:PRO:O	2.15	0.94
11:I1:998:ALA:HB2	17:O1:267:ALA:HB2	1.50	0.94
11:I1:1021:ILE:H	16:N1:409:ALA:HB3	1.27	0.94
11:I2:833:PHE:C	17:O3:241:SER:CB	2.40	0.94
11:I2:898:VAL:CB	17:O3:236:ASP:HA	1.97	0.94
11:I2:980:ILE:C	20:R3:147:LEU:CD1	2.28	0.94
11:I2:1034:ASP:C	16:N3:441:PHE:CD2	2.42	0.94
11:I2:1040:HIS:O	15:M3:616:LEU:HD12	1.68	0.94
11:I2:1607:GLN:O	12:J1:298:PHE:CG	1.79	0.94
11:I3:1278:ALA:O	26:X1:520:GLU:HG2	1.64	0.94
11:I4:1276:GLN:C	26:X3:519:ILE:C	2.36	0.94
17:O4:110:LEU:HD22	18:P4:321:ILE:HG13	1.47	0.94
28:Z1:401:THR:C	30:b1:254:SER:HB3	1.80	0.94
28:Z1:557:CYS:C	30:b1:235:LEU:O	2.10	0.94
28:Z2:535:ILE:HG12	30:b2:182:PRO:CG	1.96	0.94
28:Z2:557:CYS:C	30:b2:235:LEU:O	2.10	0.94
28:Z4:524:VAL:CG1	30:b4:236:THR:HB	1.86	0.94
28:Z4:555:LYS:HG3	30:b4:233:TRP:HE3	1.31	0.94
1:A1:1052:THR:HG22	6:D1:812:VAL:HG12	1.50	0.94
2:A2:1122:LEU:CD1	3:A5:135:PHE:HD2	1.81	0.94
2:A4:172:PRO:HB2	6:D3:781:ARG:HG2	1.50	0.94
2:A4:828:ALA:O	6:D3:605:THR:OG1	1.84	0.94
2:A4:871:ASN:HB2	6:D3:568:ARG:O	1.55	0.94
2:A4:1125:LEU:H	3:A6:136:GLU:HB3	0.81	0.94
2:A4:1126:VAL:HA	3:A6:139:ASN:H	1.12	0.94
3:A5:527:GLU:OE1	5:C2:747:PRO:HB2	1.66	0.94
3:A5:1054:SER:CB	11:I5:38:GLN:OE1	2.15	0.94
3:A5:1151:THR:HA	5:C5:733:LEU:HD12	1.49	0.94
3:A5:1363:ASP:HB2	28:Z2:875:LEU:CB	1.97	0.94
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CB	1.96	0.94
3:A5:1395:LYS:CE	28:Z2:868:GLN:O	1.99	0.94
3:A6:1352:GLY:N	28:Z4:918:PHE:CB	2.31	0.94
11:I1:931:VAL:O	15:M1:605:THR:N	1.99	0.94
11:I1:1020:ALA:CB	16:N1:406:HIS:C	2.40	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1605:LEU:HB2	11:I2:1669:ARG:NE	1.82	0.94
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG11	1.80	0.94
11:I2:978:LYS:NZ	20:R3:154:ALA:C	2.26	0.94
11:I2:1105:TRP:CD2	16:N3:432:TYR:OH	1.93	0.94
11:I3:1267:LEU:CD2	26:X1:529:TRP:CH2	2.49	0.94
11:I3:1267:LEU:CD1	26:X1:529:TRP:CD2	2.50	0.94
11:I3:1277:LEU:HD21	26:X1:513:PHE:HB3	0.96	0.94
28:Z3:524:VAL:HA	30:b3:236:THR:CG2	1.96	0.94
2:A2:1128:ASP:H	3:A5:137:HIS:HA	1.29	0.94
2:A4:867:GLU:CB	6:D3:605:THR:HB	1.97	0.94
2:A4:1098:ARG:HH21	6:D4:709:ARG:HH22	1.07	0.94
2:A4:1152:ASP:OD2	3:A6:174:PRO:CD	1.87	0.94
3:A6:1368:GLN:CB	28:Z4:845:ILE:HA	1.95	0.94
6:D7:481:ARG:HB3	11:I3:183:LYS:HE2	1.48	0.94
8:F2:1090:PRO:HB3	17:O4:245:GLU:OE2	1.68	0.94
11:I1:833:PHE:CD2	17:O1:238:ALA:CA	2.34	0.94
11:I1:881:ILE:HG13	17:O1:249:ARG:O	1.68	0.94
11:I1:950:LEU:HD11	16:N1:410:MET:CB	1.97	0.94
11:I1:976:ARG:NH1	15:M1:622:VAL:HG22	1.83	0.94
11:I1:1055:GLU:HA	17:O1:278:GLU:O	1.66	0.94
11:I2:1029:LEU:HD21	20:R3:170:LEU:CD2	1.98	0.94
11:I2:1105:TRP:CB	16:N3:439:ARG:NH2	2.20	0.94
11:I4:1272:TYR:HA	26:X3:525:ILE:HG12	1.49	0.94
28:Z1:402:GLY:C	30:b1:273:LYS:HB3	1.93	0.94
28:Z1:531:LYS:CD	30:b1:183:LEU:CA	2.36	0.94
28:Z1:554:PHE:CD1	30:b1:232:PRO:CB	2.51	0.94
28:Z4:557:CYS:C	30:b4:235:LEU:O	2.10	0.94
1:A1:1332:ARG:CD	6:D1:636:ASP:CG	2.41	0.93
1:A3:1223:GLU:CB	2:A4:676:LEU:CD1	2.38	0.93
2:A4:980:ARG:N	6:D3:473:GLU:CA	2.23	0.93
2:A4:986:THR:HB	6:D3:504:LYS:HD3	0.94	0.93
2:A4:1138:GLU:CA	3:A6:130:ILE:HD13	1.97	0.93
3:A6:1363:ASP:CB	28:Z4:869:HIS:HA	1.97	0.93
11:I1:797:LEU:CD1	17:O1:245:GLU:CG	2.46	0.93
11:I1:1103:LEU:HD11	20:R1:175:GLN:CG	1.93	0.93
11:I2:840:LEU:HB3	17:O3:247:TRP:HD1	1.33	0.93
11:I2:1067:PHE:HD1	16:N3:430:ARG:C	1.70	0.93
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:O	2.21	0.93
28:Z2:527:SER:HB2	30:b2:204:GLU:HG3	1.47	0.93
28:Z4:402:GLY:C	30:b4:273:LYS:HB3	1.93	0.93
2:A2:982:THR:OG1	6:D1:498:GLU:N	1.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1154:PHE:HB3	3:A6:175:GLU:HB2	1.45	0.93
3:A5:999:SER:HB3	11:I5:64:LYS:HG3	1.51	0.93
3:A6:1364:GLN:CA	28:Z4:849:ALA:HB3	1.98	0.93
3:A6:1412:MSE:SE	28:Z4:965:TYR:CB	2.66	0.93
11:I1:797:LEU:HD13	17:O1:245:GLU:CB	1.96	0.93
11:I1:846:ILE:HG12	15:M1:591:ASP:CA	1.98	0.93
11:I1:881:ILE:H	17:O1:250:LEU:N	1.66	0.93
11:I1:925:LEU:HB3	20:R1:164:PRO:O	1.67	0.93
11:I1:927:HIS:CD2	15:M1:594:LYS:CB	2.51	0.93
11:I1:1019:LEU:HD13	16:N1:412:ASN:HD22	1.32	0.93
11:I1:1037:THR:H	15:M1:623:LEU:HD22	1.10	0.93
11:I1:1635:HIS:HE1	11:I2:1677:LYS:HD2	1.22	0.93
11:I2:1024:PHE:HB2	16:N3:406:HIS:CB	1.97	0.93
11:I2:1058:GLY:C	17:O3:277:GLU:CA	2.32	0.93
28:Z3:555:LYS:HG3	30:b3:233:TRP:HE3	1.32	0.93
2:A2:1163:TYR:C	4:B5:342:ARG:HG3	1.94	0.93
1:A3:1056:PHE:HE2	6:D3:806:ASP:O	1.51	0.93
1:A3:1099:GLN:CG	11:I2:1414:CYS:O	2.17	0.93
2:A4:1054:SER:HB2	6:D4:762:ARG:HE	1.34	0.93
3:A5:1024:ASP:CB	11:I5:94:GLU:O	2.17	0.93
3:A6:1410:ALA:HB2	26:X4:744:MET:N	1.82	0.93
11:I1:950:LEU:HD23	16:N1:406:HIS:HD2	1.30	0.93
11:I2:899:LEU:C	17:O3:232:LYS:CG	2.41	0.93
11:I2:921:GLU:O	15:M3:593:ALA:CA	2.16	0.93
11:I2:1054:ILE:N	17:O3:279:ILE:O	2.01	0.93
18:P1:277:PRO:CB	18:P4:323:GLN:H	1.75	0.93
2:A2:874:VAL:H	6:D1:568:ARG:CA	1.82	0.93
2:A4:864:ARG:HB2	6:D3:607:PRO:HD2	0.96	0.93
3:A5:1395:LYS:CG	28:Z2:870:ILE:C	2.42	0.93
11:I1:923:GLY:O	15:M1:590:LYS:O	1.84	0.93
11:I1:959:SER:CB	20:R1:166:LEU:HD21	1.97	0.93
11:I1:1668:HIS:C	11:I2:1668:HIS:HB2	1.91	0.93
11:I2:884:LEU:CB	16:N3:400:LEU:CD1	2.26	0.93
11:I2:947:LEU:C	17:O3:256:TYR:HD2	1.64	0.93
11:I2:1053:GLY:HA3	17:O3:281:ALA:O	1.68	0.93
28:Z4:535:ILE:HG12	30:b4:182:PRO:CG	1.96	0.93
1:A1:1091:VAL:HG11	6:D1:804:SER:HB2	0.94	0.93
1:A1:1399:ARG:HH21	2:A2:885:LEU:HA	1.34	0.93
2:A2:876:ARG:NH1	6:D1:563:GLU:H	1.49	0.93
1:A3:1048:ARG:HH21	6:D3:815:GLU:CD	1.76	0.93
1:A3:1221:ILE:CD1	2:A4:641:ALA:C	2.41	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:778:PHE:N	6:D3:678:GLY:CA	2.03	0.93
2:A4:780:GLU:OE1	6:D3:679:ILE:CG2	2.15	0.93
3:A5:153:ILE:HD11	5:C2:740:ARG:O	1.67	0.93
3:A5:1056:PHE:HD2	11:I5:37:GLU:CG	1.79	0.93
3:A5:1369:ILE:CG2	28:Z2:830:LEU:C	2.20	0.93
3:A5:1391:ARG:HB2	28:Z2:867:LYS:C	1.92	0.93
11:I1:834:SER:H	17:O1:237:PRO:HB3	1.33	0.93
11:I1:937:TYR:CB	17:O1:258:GLU:CA	2.22	0.93
11:I2:890:TYR:HD1	17:O3:238:ALA:O	1.50	0.93
11:I2:948:ALA:HA	17:O3:253:LEU:HD23	1.49	0.93
11:I2:955:LYS:CA	16:N3:403:VAL:HG23	1.98	0.93
28:Z1:558:LEU:CA	30:b1:236:THR:N	2.29	0.93
2:A2:781:ARG:NH2	6:D1:679:ILE:HD12	1.83	0.93
2:A2:876:ARG:CG	6:D1:558:LYS:HG2	1.99	0.93
1:A3:835:THR:CG2	6:D1:302:PRO:HB2	1.98	0.93
3:A5:1029:ILE:CA	11:I5:69:GLY:C	2.38	0.93
3:A6:175:GLU:OE2	5:C4:735:ILE:CA	2.17	0.93
3:A6:1362:ALA:CB	28:Z4:874:ASN:H	1.81	0.93
3:A6:1390:LEU:CB	28:Z4:866:GLU:C	2.42	0.93
11:I1:877:ILE:CG2	17:O1:253:LEU:CA	2.31	0.93
11:I1:937:TYR:HB3	17:O1:258:GLU:CB	1.93	0.93
11:I1:951:LYS:O	16:N1:400:LEU:CA	2.17	0.93
11:I1:1052:LEU:HA	17:O1:287:LEU:HD13	1.48	0.93
11:I2:874:LEU:O	17:O3:252:VAL:CA	2.16	0.93
11:I2:1044:GLY:HA2	17:O3:275:LEU:HD12	0.95	0.93
21:S1:1052:LEU:HD21	21:S1:1073:ILE:HD13	1.50	0.93
2:A4:173:ASN:HD21	6:D3:762:ARG:C	1.65	0.93
3:A5:229:SER:C	5:C2:739:MET:HE2	1.94	0.93
3:A5:1369:ILE:HD12	28:Z2:829:SER:O	1.03	0.93
3:A5:1374:ALA:HB3	28:Z2:824:PHE:H	1.28	0.93
3:A6:1361:ARG:NH2	28:Z4:876:LEU:HA	1.83	0.93
3:A6:1362:ALA:HB2	28:Z4:874:ASN:N	1.82	0.93
11:I1:912:VAL:N	15:M1:584:GLN:NE2	2.17	0.93
11:I1:1037:THR:CA	15:M1:624:ASN:HD21	1.72	0.93
11:I1:1103:LEU:HD11	20:R1:175:GLN:CD	1.92	0.93
11:I1:1665:LEU:HB2	11:I2:1667:GLN:CD	1.93	0.93
11:I2:894:VAL:N	17:O3:239:GLN:HG2	1.81	0.93
11:I2:955:LYS:NZ	17:O3:249:ARG:HH22	1.66	0.93
11:I2:1037:THR:OG1	15:M3:620:VAL:HG13	1.68	0.93
11:I2:1054:ILE:HA	17:O3:280:GLU:H	1.31	0.93
11:I4:1277:LEU:CA	26:X3:519:ILE:C	2.42	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:561:GLN:HE22	30:b1:237:LEU:HD12	1.33	0.93
28:Z2:402:GLY:C	30:b2:273:LYS:HB3	1.93	0.93
1:A1:1225:PRO:O	2:A2:728:LYS:CG	2.17	0.93
2:A4:976:LEU:CD2	6:D3:501:LEU:O	2.16	0.93
3:A5:1399:ARG:HG2	28:Z2:912:ASP:CB	1.99	0.93
3:A5:1405:LEU:H	28:Z2:918:PHE:H	1.06	0.93
3:A6:159:SER:CA	5:C4:743:LEU:O	2.16	0.93
11:I1:880:MET:HE2	17:O1:247:TRP:HE3	1.16	0.93
11:I2:797:LEU:CD2	17:O3:245:GLU:HG3	1.97	0.93
11:I2:949:CYS:HB3	15:M3:606:LEU:HB2	1.49	0.93
11:I2:1014:ASN:HB3	16:N3:413:VAL:O	1.63	0.93
11:I3:1274:HIS:HB3	26:X1:534:ILE:HG21	1.49	0.93
28:Z2:528:ILE:HG13	30:b2:210:ARG:CZ	1.95	0.93
28:Z3:557:CYS:C	30:b3:235:LEU:O	2.10	0.93
28:Z4:410:ASN:C	30:b4:251:ILE:HD12	1.90	0.93
1:A1:1399:ARG:HG2	2:A2:884:ARG:CB	1.98	0.93
2:A2:1143:LEU:HB2	3:A5:132:ASP:N	1.84	0.93
2:A2:1157:TYR:CD2	3:A5:174:PRO:CA	2.32	0.93
2:A4:782:VAL:HG21	6:D3:676:ALA:O	1.67	0.93
2:A4:868:GLN:NE2	6:D3:608:ILE:CG1	2.31	0.93
2:A4:984:ALA:C	6:D3:498:GLU:CA	2.33	0.93
3:A5:1414:PHE:CD1	28:Z2:960:CYS:CB	2.51	0.93
3:A6:1394:VAL:HG13	28:Z4:873:LEU:CB	1.99	0.93
11:I1:840:LEU:HG	17:O1:244:GLU:HG3	0.95	0.93
11:I1:931:VAL:HG22	15:M1:604:ASN:H	0.95	0.93
11:I1:960:SER:CB	16:N1:395:GLU:OE2	2.17	0.93
11:I1:984:GLU:C	15:M1:613:ASP:CA	2.41	0.93
11:I1:1020:ALA:C	16:N1:406:HIS:O	2.04	0.93
11:I1:1021:ILE:HG12	16:N1:410:MET:HB2	1.48	0.93
11:I1:1664:PHE:CD2	11:I2:1667:GLN:O	2.01	0.93
11:I2:847:THR:N	15:M3:594:LYS:NZ	2.15	0.93
11:I2:955:LYS:N	16:N3:403:VAL:HG22	1.77	0.93
11:I2:1040:HIS:CE1	15:M3:623:LEU:HD13	1.81	0.93
11:I2:1040:HIS:C	15:M3:616:LEU:CD1	2.39	0.93
28:Z2:554:PHE:CD1	30:b2:232:PRO:CB	2.51	0.93
2:A2:1167:CYS:SG	4:B5:342:ARG:CD	2.56	0.93
2:A4:823:VAL:C	2:A4:856:PHE:HE1	1.76	0.93
3:A6:1411:ARG:HD2	28:Z4:968:ARG:HA	1.51	0.93
8:F1:1138:TRP:HB2	17:O2:244:GLU:CA	1.99	0.93
9:G1:269:GLU:CB	16:N2:412:ASN:O	2.15	0.93
11:I1:976:ARG:HB3	20:R1:149:ARG:HB3	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1023:ASP:CB	16:N1:405:ALA:CB	2.46	0.93
11:I1:1056:PRO:CB	17:O1:278:GLU:CG	2.45	0.93
11:I1:1114:VAL:H	16:N1:435:ALA:HB1	1.21	0.93
11:I2:881:ILE:CG2	17:O3:249:ARG:NH2	2.32	0.93
11:I2:947:LEU:HD22	17:O3:256:TYR:HH	1.28	0.93
11:I2:1020:ALA:HB2	16:N3:408:MET:N	1.84	0.93
11:I2:1039:ALA:HB3	20:R3:170:LEU:CD2	1.82	0.93
11:I2:1101:LEU:O	16:N3:432:TYR:CZ	2.09	0.93
11:I2:1104:LEU:CG	16:N3:433:GLU:OE2	2.17	0.93
11:I5:1239:ASP:HB3	29:a2:27:GLN:HE22	1.33	0.93
21:S4:1052:LEU:HD21	21:S4:1073:ILE:HD13	1.50	0.93
1:A1:1087:GLY:HA3	6:D1:797:GLY:C	1.94	0.92
2:A2:1164:TYR:HD1	4:B5:342:ARG:HD3	1.19	0.92
2:A4:779:ASP:OD2	6:D3:680:SER:HB2	1.69	0.92
2:A4:780:GLU:CD	6:D3:679:ILE:CD1	2.38	0.92
2:A4:875:LEU:HD12	6:D3:567:LEU:HD21	1.49	0.92
2:A4:975:GLU:CB	6:D3:501:LEU:HG	1.90	0.92
2:A4:976:LEU:HD22	6:D3:472:PHE:CD2	2.03	0.92
2:A4:1131:ILE:HD12	3:A6:160:ILE:HB	1.51	0.92
3:A5:997:ASP:O	11:I5:60:GLY:O	1.54	0.92
3:A6:1151:THR:HA	5:C6:733:LEU:HD12	1.48	0.92
3:A6:1408:GLU:O	28:Z4:965:TYR:HA	1.69	0.92
9:G1:263:MET:CE	17:O2:256:TYR:OH	2.09	0.92
11:I1:797:LEU:HD13	17:O1:245:GLU:HG2	1.49	0.92
11:I1:900:ARG:HG3	17:O1:232:LYS:NZ	1.84	0.92
11:I1:1665:LEU:CD2	11:I2:1667:GLN:O	2.17	0.92
11:I2:945:LEU:CD1	17:O3:258:GLU:H	1.78	0.92
11:I3:815:ILE:HG21	26:X1:497:ARG:HB3	1.51	0.92
2:A4:865:ALA:O	6:D3:598:ILE:CD1	2.16	0.92
2:A4:1054:SER:HB2	6:D4:762:ARG:NE	1.84	0.92
3:A5:1385:GLU:OE2	28:Z2:863:ASP:CB	2.16	0.92
3:A6:1362:ALA:HB1	28:Z4:870:ILE:C	1.80	0.92
3:A6:1401:VAL:CA	28:Z4:919:PHE:HA	1.98	0.92
8:F1:1262:HIS:HE1	17:O2:255:GLY:O	1.51	0.92
9:G1:263:MET:C	16:N2:411:GLN:HB2	1.94	0.92
11:I1:985:ARG:HA	15:M1:613:ASP:OD1	1.68	0.92
11:I1:1056:PRO:HB3	17:O1:278:GLU:CG	1.97	0.92
11:I2:880:MET:HE2	15:M3:598:GLU:OE1	1.66	0.92
11:I2:1020:ALA:HB2	16:N3:409:ALA:N	1.84	0.92
11:I5:1279:THR:HG21	26:X2:520:GLU:O	1.68	0.92
21:S2:1052:LEU:HD21	21:S2:1073:ILE:HD13	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:410:ASN:C	30:b3:251:ILE:HD12	1.90	0.92
28:Z4:522:ASN:CG	30:b4:241:PRO:HB3	1.94	0.92
1:A1:874:VAL:HG11	6:D3:272:VAL:O	1.68	0.92
1:A1:1223:GLU:HG2	2:A2:724:LEU:HB3	1.51	0.92
2:A2:869:ALA:HB2	6:D1:574:VAL:HG22	1.47	0.92
2:A2:992:TYR:HB3	6:D1:238:ALA:HB1	1.51	0.92
2:A4:909:LYS:O	6:D3:555:ARG:HG3	1.12	0.92
2:A4:1151:THR:HA	5:C4:733:LEU:HA	1.52	0.92
3:A5:996:ASN:HB3	11:I5:59:LEU:N	1.85	0.92
3:A6:1388:ALA:C	28:Z4:866:GLU:H	1.76	0.92
3:A6:1390:LEU:HB3	28:Z4:866:GLU:C	1.93	0.92
4:B6:345:LYS:O	5:C4:737:LYS:CD	2.17	0.92
11:I1:873:ILE:CG2	17:O1:254:ARG:HG2	1.98	0.92
11:I1:940:LEU:CB	17:O1:259:ASP:O	2.17	0.92
11:I1:949:CYS:O	16:N1:403:VAL:HG11	1.67	0.92
11:I1:1021:ILE:HD11	16:N1:410:MET:HG3	0.94	0.92
11:I1:1047:CYS:O	20:R1:143:PHE:CE1	2.23	0.92
11:I3:1278:ALA:N	26:X1:519:ILE:CB	2.17	0.92
28:Z1:526:ARG:C	30:b1:206:ASN:CG	2.37	0.92
1:A1:868:GLN:O	6:D3:277:ASN:HB2	1.67	0.92
1:A1:1200:ARG:HE	2:A2:642:ARG:HH21	0.95	0.92
2:A4:1122:LEU:CB	3:A6:132:ASP:O	2.17	0.92
3:A5:1026:PRO:HA	11:I5:68:ILE:N	1.85	0.92
3:A5:1365:VAL:CG2	28:Z2:838:GLN:HA	1.98	0.92
3:A6:1330:VAL:HG23	28:Z4:913:ILE:O	1.68	0.92
3:A6:1360:GLY:H	28:Z4:885:VAL:CB	1.83	0.92
3:A6:1388:ALA:HA	28:Z4:866:GLU:H	1.34	0.92
8:F1:1137:GLN:HE21	17:O2:249:ARG:HB2	1.21	0.92
11:I1:846:ILE:O	15:M1:594:LYS:CD	2.07	0.92
11:I1:960:SER:HB2	16:N1:395:GLU:CD	1.94	0.92
11:I2:881:ILE:CB	17:O3:249:ARG:HG2	1.88	0.92
11:I2:1049:LEU:HG	17:O3:291:ASP:CB	1.99	0.92
28:Z1:411:LEU:HD23	30:b1:251:ILE:HG23	1.43	0.92
28:Z1:528:ILE:O	30:b1:184:SER:HB3	0.85	0.92
28:Z2:526:ARG:C	30:b2:206:ASN:CG	2.37	0.92
28:Z3:526:ARG:C	30:b3:206:ASN:CG	2.37	0.92
2:A2:871:ASN:N	6:D1:567:LEU:O	2.03	0.92
2:A2:1136:LYS:H	3:A5:138:LEU:HD21	1.33	0.92
2:A4:861:GLN:CD	6:D3:607:PRO:HB3	1.95	0.92
2:A4:983:LEU:CD2	6:D3:497:PHE:CE1	2.50	0.92
3:A5:1027:HIS:ND1	11:I5:65:LYS:CB	2.25	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1029:ILE:HA	11:I5:69:GLY:C	1.92	0.92
3:A5:1046:LEU:HD11	11:I5:70:GLU:HB2	1.51	0.92
3:A5:1300:LEU:HG	28:Z2:838:GLN:CB	2.00	0.92
3:A5:1356:SER:C	28:Z2:878:HIS:C	1.91	0.92
3:A5:1359:LEU:HB2	28:Z2:878:HIS:H	1.13	0.92
3:A5:1365:VAL:HG23	28:Z2:838:GLN:O	1.65	0.92
3:A5:1399:ARG:HH11	28:Z2:909:LEU:CA	1.65	0.92
3:A6:1364:GLN:CA	28:Z4:849:ALA:CB	2.47	0.92
3:A6:1369:ILE:CG2	28:Z4:826:TYR:CB	2.47	0.92
8:F1:1093:LEU:HD11	17:O2:240:GLY:O	1.69	0.92
9:G1:258:LYS:HZ1	16:N2:408:MET:CG	1.82	0.92
11:I1:952:LEU:HD12	16:N1:400:LEU:HD22	1.17	0.92
11:I1:1035:GLN:CA	16:N1:441:PHE:CZ	2.46	0.92
11:I1:1037:THR:CA	20:R1:173:LEU:CD2	2.26	0.92
11:I1:1112:SER:H	16:N1:439:ARG:HB3	1.32	0.92
11:I1:1114:VAL:HG21	16:N1:436:ALA:CB	2.00	0.92
21:S3:1052:LEU:HD21	21:S3:1073:ILE:HD13	1.50	0.92
28:Z1:555:LYS:HG3	30:b1:233:TRP:HE3	1.32	0.92
28:Z2:522:ASN:CB	30:b2:240:LEU:HB3	2.00	0.92
2:A2:781:ARG:HE	6:D1:673:ARG:HB3	1.28	0.92
2:A2:1159:ASP:HB3	3:A5:175:GLU:CG	1.98	0.92
1:A3:1083:SER:O	6:D3:798:MET:N	2.03	0.92
1:A3:1223:GLU:HB3	2:A4:724:LEU:HD22	1.51	0.92
2:A4:870:HIS:CE1	6:D3:566:PHE:HD1	1.86	0.92
2:A4:977:VAL:HA	6:D3:492:VAL:HG12	1.51	0.92
2:A4:1143:LEU:HD11	3:A6:134:VAL:H	1.31	0.92
3:A6:1334:GLY:HA2	28:Z4:961:PHE:CA	1.94	0.92
5:C1:732:LYS:CD	11:I1:1228:GLU:HG3	2.00	0.92
11:I1:1026:TYR:CE1	20:R1:175:GLN:NE2	2.37	0.92
11:I1:1036:PRO:CD	15:M1:623:LEU:O	2.14	0.92
11:I2:964:SER:O	20:R3:153:GLN:NE2	2.02	0.92
11:I2:1043:LEU:N	15:M3:616:LEU:HD11	1.78	0.92
17:O4:112:GLY:HA3	18:P1:278:ASN:CB	1.98	0.92
28:Z2:402:GLY:HA3	30:b2:254:SER:HG	1.13	0.92
28:Z2:561:GLN:HE22	30:b2:237:LEU:HD12	1.34	0.92
28:Z4:526:ARG:C	30:b4:206:ASN:CG	2.37	0.92
1:A1:1201:ARG:HD3	2:A2:734:LEU:HD23	1.51	0.92
2:A2:872:ALA:CB	6:D1:565:MET:HE3	1.99	0.92
2:A2:874:VAL:HG13	6:D1:611:LYS:CB	1.99	0.92
2:A2:989:MSE:CE	6:D1:241:ALA:N	2.28	0.92
1:A3:1332:ARG:HG3	6:D3:636:ASP:HB3	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:864:ARG:C	6:D3:608:ILE:HG12	1.94	0.92
2:A4:875:LEU:O	6:D3:567:LEU:CD1	2.18	0.92
2:A4:978:ASP:C	6:D3:476:VAL:HG23	1.94	0.92
3:A6:1352:GLY:O	28:Z4:918:PHE:CB	2.17	0.92
3:A6:1399:ARG:NH2	28:Z4:945:VAL:C	2.28	0.92
11:I1:878:GLN:H	17:O1:252:VAL:H	0.93	0.92
11:I1:951:LYS:O	16:N1:400:LEU:C	2.12	0.92
11:I1:984:GLU:CG	15:M1:618:GLN:H	1.83	0.92
11:I1:1060:PHE:HD2	17:O1:279:ILE:HD13	1.32	0.92
11:I1:1543:LEU:O	12:J2:300:ILE:CG2	2.17	0.92
11:I1:1546:TRP:HB3	12:J2:300:ILE:CD1	1.99	0.92
11:I2:978:LYS:HE2	20:R3:154:ALA:N	1.84	0.92
11:I2:1543:LEU:CD2	12:J1:300:ILE:O	2.06	0.92
18:P2:320:GLN:HG2	18:P3:278:ASN:HB2	1.48	0.92
28:Z2:556:ASN:CA	30:b2:212:PHE:HB2	1.99	0.92
28:Z3:534:ASP:CA	30:b3:164:CYS:CB	2.44	0.92
28:Z3:556:ASN:ND2	30:b3:166:LEU:CD2	2.33	0.92
1:A1:834:GLU:CB	6:D3:302:PRO:CG	2.48	0.92
1:A1:1204:TRP:CD1	2:A2:645:PHE:CE1	2.55	0.92
2:A2:780:GLU:CB	6:D1:677:GLN:CB	2.48	0.92
2:A2:980:ARG:CG	6:D1:473:GLU:HG3	1.98	0.92
2:A4:827:ILE:O	2:A4:863:GLN:CA	2.16	0.92
2:A4:973:GLU:CA	6:D3:205:LEU:CB	2.46	0.92
3:A5:164:LEU:CD1	5:C2:745:SER:H	1.80	0.92
3:A5:1374:ALA:HB1	28:Z2:823:ALA:HB3	0.92	0.92
3:A6:164:LEU:N	5:C4:743:LEU:HG	1.62	0.92
4:B6:345:LYS:H	5:C4:737:LYS:HZ2	0.94	0.92
9:G1:254:ASN:CG	15:M2:605:THR:OG1	2.06	0.92
9:G1:258:LYS:HZ1	16:N2:408:MET:CB	1.79	0.92
11:I1:880:MET:CE	17:O1:247:TRP:CZ3	2.48	0.92
11:I1:927:HIS:CE1	15:M1:594:LYS:HG3	2.04	0.92
11:I1:990:GLU:HB3	17:O1:272:SER:HA	1.48	0.92
11:I2:921:GLU:H	15:M3:592:LEU:HG	1.18	0.92
11:I2:924:ILE:HB	15:M3:598:GLU:H	1.33	0.92
11:I2:931:VAL:HA	15:M3:601:ASP:O	1.06	0.92
11:I2:1034:ASP:OD2	15:M3:630:LEU:CG	2.16	0.92
11:I2:1101:LEU:CD2	16:N3:432:TYR:CG	2.49	0.92
11:I3:1271:GLU:CD	26:X1:504:ILE:HG21	1.94	0.92
28:Z1:410:ASN:HD21	30:b1:252:ALA:CB	1.73	0.92
28:Z1:556:ASN:CA	30:b1:212:PHE:HB2	1.99	0.92
28:Z2:556:ASN:ND2	30:b2:166:LEU:CD2	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:561:GLN:HE22	30:b3:237:LEU:HD12	1.33	0.92
28:Z4:526:ARG:CA	30:b4:206:ASN:CG	2.43	0.92
28:Z4:556:ASN:ND2	30:b4:166:LEU:CD2	2.33	0.92
28:Z4:557:CYS:HB3	30:b4:210:ARG:HH11	1.01	0.92
2:A2:911:TYR:HE2	6:D1:555:ARG:NE	1.68	0.92
2:A2:1137:ALA:HB1	3:A5:564:ASN:O	1.68	0.92
2:A2:1159:ASP:H	3:A5:175:GLU:HB2	0.77	0.92
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG13	0.97	0.92
2:A4:1159:ASP:HB2	4:B6:342:ARG:HB2	1.51	0.92
3:A6:189:VAL:CG2	5:C4:742:ASP:HB3	1.99	0.92
3:A6:1416:ARG:OXT	28:Z4:979:GLU:N	1.81	0.92
11:I1:877:ILE:C	17:O1:252:VAL:H	1.62	0.92
11:I1:880:MET:N	17:O1:249:ARG:N	2.06	0.92
11:I2:1039:ALA:C	20:R3:170:LEU:HD11	1.95	0.92
11:I2:1049:LEU:HG	17:O3:291:ASP:CG	1.94	0.92
17:O4:111:TYR:HD1	18:P4:325:ILE:HD11	1.33	0.92
28:Z4:561:GLN:HB2	30:b4:236:THR:H	1.09	0.92
1:A1:1102:GLN:OE1	11:I1:1413:GLN:O	1.87	0.92
1:A3:1220:PRO:CG	2:A4:732:GLN:OE1	2.17	0.92
3:A5:232:LEU:CD1	5:C2:740:ARG:CB	2.47	0.92
3:A6:177:ILE:CG1	5:C4:740:ARG:HH11	1.74	0.92
11:I1:925:LEU:N	15:M1:596:ILE:HB	1.83	0.92
11:I1:952:LEU:H	17:O1:253:LEU:HD13	1.22	0.92
11:I1:959:SER:HA	16:N1:395:GLU:HB3	0.92	0.92
11:I1:1042:LEU:HB2	20:R1:170:LEU:CD1	1.99	0.92
11:I2:833:PHE:O	17:O3:241:SER:CA	2.16	0.92
11:I2:976:ARG:NH1	20:R3:146:LEU:C	2.28	0.92
11:I2:1017:VAL:HG23	16:N3:411:GLN:C	1.94	0.92
17:O4:110:LEU:CD2	18:P4:321:ILE:HB	1.98	0.92
28:Z3:557:CYS:HB3	30:b3:210:ARG:NH1	1.51	0.92
2:A2:826:ASN:CB	6:D1:633:LYS:HB2	1.98	0.91
2:A2:876:ARG:CD	6:D1:558:LYS:CB	2.48	0.91
2:A4:983:LEU:HB2	6:D3:528:PHE:CE2	2.04	0.91
3:A5:155:TYR:HE1	5:C2:739:MET:O	1.09	0.91
3:A6:1319:ILE:CB	28:Z4:874:ASN:CB	2.49	0.91
11:I1:880:MET:CE	17:O1:247:TRP:HE3	1.72	0.91
11:I1:899:LEU:HD22	17:O1:231:ASP:CG	1.92	0.91
11:I1:917:TYR:CZ	15:M1:586:ASP:O	2.23	0.91
11:I2:1186:PRO:CG	17:O4:221:ASP:OD1	2.12	0.91
17:O2:111:TYR:N	18:P2:325:ILE:CG2	2.29	0.91
28:Z3:554:PHE:CD1	30:b3:232:PRO:CB	2.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1094:ILE:HD11	6:D2:759:GLN:HE22	1.35	0.91
1:A3:1054:SER:HA	6:D3:809:ALA:CA	1.99	0.91
2:A4:823:VAL:CA	2:A4:856:PHE:CE1	1.98	0.91
2:A4:987:LYS:NZ	6:D3:556:ASP:CG	2.08	0.91
3:A5:996:ASN:HB2	11:I5:56:ARG:O	1.69	0.91
3:A5:1094:ILE:HG21	11:I5:4:LEU:CB	1.85	0.91
11:I1:841:PHE:CE2	17:O1:243:LEU:HD12	1.95	0.91
11:I1:896:PRO:O	17:O1:232:LYS:HB3	1.70	0.91
11:I1:923:GLY:C	15:M1:591:ASP:C	2.38	0.91
11:I1:984:GLU:HB3	15:M1:618:GLN:NE2	1.84	0.91
11:I1:1041:GLN:H	15:M1:620:VAL:HG22	1.35	0.91
11:I2:899:LEU:HD12	17:O3:234:LEU:H	1.33	0.91
11:I2:950:LEU:HD22	16:N3:410:MET:CE	1.99	0.91
11:I3:1278:ALA:O	26:X1:520:GLU:HA	1.70	0.91
17:O2:112:GLY:HA3	18:P2:325:ILE:CG2	2.00	0.91
28:Z4:528:ILE:HG13	30:b4:210:ARG:CZ	1.95	0.91
1:A1:868:GLN:HA	6:D3:280:GLN:CB	2.01	0.91
2:A2:1134:GLU:H	3:A5:146:LYS:H	1.18	0.91
3:A6:165:PHE:CD2	5:C4:743:LEU:CG	2.52	0.91
3:A6:1369:ILE:HG23	28:Z4:826:TYR:CB	1.99	0.91
3:A6:1395:LYS:CB	28:Z4:889:LEU:O	2.17	0.91
3:A6:1411:ARG:HG3	26:X4:742:ALA:C	1.81	0.91
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG2	2.00	0.91
11:I1:1610:VAL:CG2	11:I2:1673:VAL:HG11	2.01	0.91
11:I2:976:ARG:HH21	20:R3:143:PHE:C	1.77	0.91
11:I2:982:GLN:CB	15:M3:621:ARG:HH12	1.83	0.91
11:I2:983:LEU:O	15:M3:614:ASP:N	2.02	0.91
11:I2:990:GLU:C	17:O3:271:GLU:HG2	1.94	0.91
11:I2:1029:LEU:HD13	16:N3:433:GLU:CG	1.96	0.91
11:I2:1037:THR:OG1	20:R3:169:GLY:CA	2.19	0.91
11:I2:1052:LEU:HD13	16:N3:438:LEU:HD21	1.50	0.91
28:Z2:526:ARG:CA	30:b2:206:ASN:CG	2.43	0.91
28:Z3:528:ILE:O	30:b3:184:SER:HB3	0.85	0.91
28:Z4:443:LEU:HD21	30:b4:250:GLY:HA2	1.52	0.91
28:Z4:535:ILE:CG1	30:b4:182:PRO:CG	2.48	0.91
1:A3:1048:ARG:O	6:D3:816:VAL:HG21	1.67	0.91
2:A4:827:ILE:HA	2:A4:860:GLU:CA	1.97	0.91
2:A4:865:ALA:CB	6:D3:567:LEU:HD22	1.97	0.91
3:A6:1337:ALA:CB	28:Z4:960:CYS:CB	2.49	0.91
9:G1:252:LEU:HA	15:M2:602:MET:SD	2.10	0.91
9:G1:263:MET:CB	17:O2:260:LEU:HB2	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:256:GLN:CG	17:O4:262:ASP:H	1.84	0.91
11:I1:880:MET:O	17:O1:246:LEU:CB	2.01	0.91
11:I1:898:VAL:CG1	17:O1:235:ASN:O	2.16	0.91
11:I1:922:ASP:O	15:M1:589:GLY:O	1.88	0.91
11:I1:955:LYS:HD2	17:O1:249:ARG:HH22	1.31	0.91
11:I2:939:ASN:N	17:O3:261:LYS:O	1.92	0.91
11:I2:1040:HIS:HB3	15:M3:619:ILE:HG21	1.51	0.91
28:Z2:410:ASN:C	30:b2:251:ILE:HD12	1.90	0.91
28:Z3:438:GLU:HB3	30:b3:314:PRO:CD	2.00	0.91
28:Z3:522:ASN:CB	30:b3:240:LEU:HB3	2.00	0.91
28:Z4:522:ASN:CB	30:b4:240:LEU:HB3	2.00	0.91
2:A2:980:ARG:N	6:D1:473:GLU:HG3	1.84	0.91
2:A2:1149:THR:H	3:A5:172:PRO:HB2	1.33	0.91
1:A3:1056:PHE:CE2	6:D3:807:THR:C	2.49	0.91
2:A4:868:GLN:NE2	6:D3:608:ILE:CD1	2.29	0.91
2:A4:909:LYS:HG2	6:D3:552:TYR:CD2	1.87	0.91
2:A4:1125:LEU:O	3:A6:137:HIS:O	1.86	0.91
2:A4:1155:ASN:H	3:A6:175:GLU:CA	1.82	0.91
3:A5:1355:VAL:O	28:Z2:878:HIS:CA	2.17	0.91
3:A6:1316:VAL:CG1	28:Z4:871:HIS:CA	2.48	0.91
11:I1:1104:LEU:CB	16:N1:436:ALA:CB	2.46	0.91
11:I2:896:PRO:C	17:O3:232:LYS:O	2.13	0.91
11:I2:1109:LEU:HD11	17:O3:286:ILE:HG22	1.51	0.91
28:Z2:528:ILE:N	30:b2:208:ASN:ND2	2.05	0.91
28:Z3:535:ILE:CG1	30:b3:182:PRO:CG	2.48	0.91
2:A2:879:LEU:HG	6:D1:567:LEU:HD11	0.93	0.91
3:A5:1026:PRO:O	11:I5:67:LYS:C	2.14	0.91
3:A6:1363:ASP:HA	28:Z4:869:HIS:HA	1.50	0.91
3:A6:1366:LEU:CD1	28:Z4:866:GLU:O	2.18	0.91
9:G1:250:THR:HA	15:M2:605:THR:HG21	1.52	0.91
11:I2:895:ARG:CA	17:O3:236:ASP:N	2.31	0.91
11:I2:948:ALA:CA	17:O3:256:TYR:HB3	1.99	0.91
11:I2:999:SER:CB	17:O3:264:ILE:HG21	1.99	0.91
11:I3:1275:SER:HB2	26:X1:508:LEU:HD11	1.52	0.91
28:Z1:556:ASN:ND2	30:b1:166:LEU:CD2	2.33	0.91
28:Z3:556:ASN:CA	30:b3:212:PHE:HB2	1.99	0.91
1:A1:832:ASN:CG	6:D3:298:ASN:HB2	1.95	0.91
2:A2:968:SER:HA	6:D1:201:LEU:O	1.69	0.91
2:A4:908:LEU:CD2	6:D3:601:PHE:HB3	1.99	0.91
2:A4:1148:ARG:NH1	3:A6:131:PRO:HD3	1.86	0.91
11:I1:961:ARG:NH1	16:N1:389:PHE:CA	2.30	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1052:LEU:CB	16:N1:438:LEU:CG	2.12	0.91
11:I1:1103:LEU:HD13	20:R1:175:GLN:HG3	0.91	0.91
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CA	2.01	0.91
11:I2:836:VAL:CG1	17:O3:244:GLU:CB	2.11	0.91
11:I2:896:PRO:N	17:O3:233:THR:HA	1.85	0.91
11:I3:1270:LYS:CA	26:X1:529:TRP:H	1.84	0.91
28:Z1:438:GLU:HB3	30:b1:314:PRO:CD	2.00	0.91
28:Z3:526:ARG:CA	30:b3:206:ASN:CG	2.43	0.91
28:Z4:535:ILE:CG1	30:b4:182:PRO:HB3	1.97	0.91
28:Z4:561:GLN:HE22	30:b4:237:LEU:HD12	1.33	0.91
1:A1:832:ASN:OD1	6:D3:298:ASN:HA	1.09	0.91
1:A1:874:VAL:CG1	6:D3:272:VAL:O	2.19	0.91
1:A1:1201:ARG:CD	2:A2:734:LEU:HB3	1.99	0.91
2:A2:1134:GLU:N	3:A5:146:LYS:N	2.18	0.91
1:A3:1223:GLU:HB3	2:A4:676:LEU:HD11	1.51	0.91
2:A4:911:TYR:HE2	6:D3:555:ARG:HH21	1.10	0.91
2:A4:1141:GLU:HB2	3:A6:564:ASN:O	1.71	0.91
2:A4:1149:THR:OG1	3:A6:173:ASN:C	2.13	0.91
3:A5:1029:ILE:CA	11:I5:69:GLY:O	2.18	0.91
11:I1:934:LEU:HA	15:M1:602:MET:HE3	0.91	0.91
11:I2:947:LEU:HD22	16:N3:411:GLN:HG2	1.48	0.91
11:I2:1109:LEU:CB	16:N3:438:LEU:CA	2.37	0.91
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG21	1.52	0.91
27:Y4:41:ASP:HB3	29:a4:231[B]:HIS:HE1	1.36	0.91
28:Z1:402:GLY:HA3	30:b1:254:SER:HG	1.09	0.91
28:Z2:524:VAL:C	30:b2:208:ASN:CG	2.38	0.91
1:A1:1225:PRO:O	2:A2:728:LYS:CB	2.19	0.91
2:A2:777:LEU:CA	6:D1:678:GLY:HA3	1.72	0.91
2:A2:827:ILE:O	2:A2:863:GLN:CA	2.16	0.91
2:A2:1158:ALA:H	3:A5:175:GLU:CA	1.77	0.91
2:A4:874:VAL:O	6:D3:567:LEU:CB	2.16	0.91
2:A4:976:LEU:CB	6:D3:472:PHE:CD2	2.54	0.91
3:A6:1351:MSE:C	28:Z4:918:PHE:N	2.27	0.91
3:A6:1386:GLU:C	28:Z4:863:ASP:CA	2.29	0.91
3:A6:1407:GLY:HA2	26:X4:743:PHE:HA	1.53	0.91
11:I1:1668:HIS:CA	11:I2:1668:HIS:HB2	2.00	0.91
11:I2:950:LEU:HB3	16:N3:406:HIS:CD2	2.06	0.91
11:I2:958:THR:N	16:N3:399:HIS:NE2	2.19	0.91
11:I2:997:SER:HB2	17:O3:270:THR:CG2	2.00	0.91
11:I2:1044:GLY:O	17:O3:280:GLU:CG	2.18	0.91
11:I3:1275:SER:N	26:X1:508:LEU:HD23	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1275:SER:H	26:X3:525:ILE:CA	1.82	0.91
11:I4:1277:LEU:HA	26:X3:519:ILE:C	1.95	0.91
28:Z3:534:ASP:HA	30:b3:164:CYS:CB	2.01	0.91
1:A1:874:VAL:HG13	6:D3:272:VAL:HB	1.51	0.91
2:A2:872:ALA:HB1	6:D1:565:MET:HA	0.93	0.91
2:A4:970:PHE:HZ	6:D3:555:ARG:HH22	1.14	0.91
2:A4:975:GLU:HB3	6:D3:501:LEU:HB2	1.47	0.91
2:A4:982:THR:HB	6:D3:493:ALA:O	1.68	0.91
2:A4:1054:SER:CB	6:D4:762:ARG:NE	2.33	0.91
3:A6:1411:ARG:HD2	28:Z4:968:ARG:CB	2.00	0.91
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB2	1.92	0.91
9:G2:255:LEU:HA	17:O4:262:ASP:CG	1.95	0.91
11:I1:877:ILE:CG1	17:O1:251:ILE:C	2.23	0.91
11:I1:922:ASP:H	15:M1:592:LEU:HD23	0.75	0.91
11:I1:952:LEU:CG	16:N1:400:LEU:CD2	2.49	0.91
11:I1:1114:VAL:HG21	16:N1:436:ALA:CA	2.00	0.91
11:I2:877:ILE:CG2	17:O3:250:LEU:O	2.19	0.91
11:I2:898:VAL:HG21	17:O3:237:PRO:N	1.85	0.91
11:I2:1065:SER:CB	17:O3:274:GLY:O	2.18	0.91
28:Z2:554:PHE:CE2	30:b2:234:LEU:HA	2.06	0.91
28:Z4:556:ASN:CA	30:b4:212:PHE:HB2	1.99	0.91
2:A2:827:ILE:HD12	2:A2:859:GLN:CB	2.00	0.90
2:A2:876:ARG:HD2	6:D1:558:LYS:HB3	1.52	0.90
2:A2:982:THR:CG2	6:D1:497:PHE:N	1.80	0.90
1:A3:1048:ARG:CZ	6:D3:819:ASN:CG	2.37	0.90
2:A4:873:PRO:CG	6:D3:572:GLU:OE2	2.18	0.90
2:A4:1130:ARG:CA	3:A6:161[A]:ASP:OD2	2.20	0.90
3:A5:230:LYS:N	5:C2:739:MET:HE2	1.87	0.90
3:A5:1098:ARG:CZ	11:I5:29:GLN:CB	2.44	0.90
3:A6:1312:ARG:CZ	28:Z4:829:SER:CB	2.48	0.90
8:F2:1049:GLN:HE22	17:O4:237:PRO:HB3	1.13	0.90
11:I1:1052:LEU:HD23	16:N1:434:LEU:HD12	1.49	0.90
11:I1:1109:LEU:N	16:N1:441:PHE:H	1.54	0.90
11:I2:900:ARG:HA	17:O3:232:LYS:HG2	1.35	0.90
11:I2:934:LEU:HB3	15:M3:602:MET:O	1.10	0.90
11:I2:938:CYS:C	17:O3:261:LYS:C	2.38	0.90
11:I2:990:GLU:O	17:O3:271:GLU:CG	2.18	0.90
11:I3:1277:LEU:HD13	26:X1:511:TYR:CE2	2.03	0.90
11:I4:1275:SER:HB2	26:X3:525:ILE:HG13	1.25	0.90
11:I4:1279:THR:HG22	26:X3:520:GLU:O	1.71	0.90
21:S1:138:VAL:HG11	21:S1:170:THR:HG22	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1016:LYS:HE2	21:S4:1039:GLU:HG3	1.53	0.90
28:Z2:438:GLU:HB3	30:b2:314:PRO:CD	2.00	0.90
1:A1:834:GLU:HB2	6:D3:302:PRO:CB	2.00	0.90
1:A1:1200:ARG:NE	2:A2:642:ARG:NH2	2.19	0.90
2:A2:223:THR:HB	6:D1:709:ARG:HH22	1.36	0.90
2:A2:1132:PRO:HD3	3:A5:163:SER:O	1.70	0.90
2:A2:1148:ARG:NH2	3:A5:172:PRO:HA	1.85	0.90
1:A3:1021:LEU:HD11	6:D3:819:ASN:HD22	0.80	0.90
2:A4:972:GLY:HA2	6:D3:204:ASN:OD1	0.99	0.90
2:A4:1139:ILE:O	3:A6:130:ILE:HG22	1.71	0.90
8:F1:1261:TYR:HD2	17:O2:259:ASP:OD2	1.31	0.90
11:I1:895:ARG:NE	17:O1:233:THR:CG2	2.16	0.90
11:I1:939:ASN:O	17:O1:262:ASP:O	1.89	0.90
11:I1:953:LEU:N	16:N1:403:VAL:CB	2.34	0.90
11:I1:984:GLU:N	15:M1:617:THR:HG21	1.85	0.90
11:I1:992:ILE:HD11	15:M1:604:ASN:O	1.66	0.90
11:I2:880:MET:HA	17:O3:247:TRP:CA	1.92	0.90
11:I2:1109:LEU:HA	17:O3:290:TYR:OH	1.70	0.90
28:Z1:526:ARG:CA	30:b1:206:ASN:CG	2.43	0.90
28:Z2:561:GLN:HB2	30:b2:236:THR:H	1.10	0.90
28:Z4:561:GLN:HB2	30:b4:235:LEU:C	1.95	0.90
1:A1:1332:ARG:NH2	6:D1:685:VAL:HB	1.85	0.90
2:A2:1142:PHE:CE1	3:A5:567:VAL:N	2.39	0.90
2:A4:1134:GLU:N	3:A6:145:THR:OG1	0.76	0.90
11:I1:983:LEU:HD12	15:M1:621:ARG:HH21	1.35	0.90
11:I1:994:ALA:H	17:O1:271:GLU:HG3	1.33	0.90
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG3	1.52	0.90
11:I2:834:SER:HA	17:O3:237:PRO:O	1.71	0.90
22:T3:829:MET:HE2	22:T3:849:LEU:HD12	1.54	0.90
28:Z2:558:LEU:CA	30:b2:236:THR:N	2.29	0.90
28:Z4:438:GLU:HB3	30:b4:314:PRO:CD	2.00	0.90
28:Z4:528:ILE:O	30:b4:184:SER:HB3	0.85	0.90
28:Z4:534:ASP:CG	30:b4:183:LEU:HB2	1.97	0.90
28:Z4:541:PRO:CD	30:b4:180:GLY:HA3	2.01	0.90
2:A2:970:PHE:CG	6:D1:196:ILE:CD1	2.55	0.90
2:A2:1151:THR:CG2	5:C2:734:VAL:HB	2.01	0.90
2:A4:971:ALA:H	6:D3:202:GLN:HG2	1.24	0.90
2:A4:1118:GLN:HG2	3:A6:132:ASP:HB2	1.51	0.90
3:A5:155:TYR:OH	5:C2:740:ARG:CD	2.18	0.90
9:G1:266:ASP:O	16:N2:414:ALA:C	2.15	0.90
11:I1:947:LEU:CD1	17:O1:256:TYR:CZ	2.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:992:ILE:C	15:M1:607:SER:O	2.06	0.90
11:I1:1051:LYS:HE3	17:O1:289:ASP:CA	1.89	0.90
11:I2:894:VAL:CG1	17:O3:236:ASP:O	1.98	0.90
11:I2:1021:ILE:HD11	16:N3:410:MET:HG3	1.52	0.90
11:I2:1040:HIS:CB	16:N3:434:LEU:HD13	2.01	0.90
21:S1:1016:LYS:HE2	21:S1:1039:GLU:HG3	1.53	0.90
28:Z1:410:ASN:C	30:b1:251:ILE:HD12	1.90	0.90
1:A1:874:VAL:HG22	6:D3:272:VAL:HB	1.54	0.90
2:A2:980:ARG:NE	6:D1:525:ARG:CB	2.33	0.90
2:A4:1094:ILE:HD11	6:D4:708:ASP:CB	1.69	0.90
2:A4:1154:PHE:N	3:A6:175:GLU:HA	1.86	0.90
3:A5:1026:PRO:HB3	11:I5:73:TYR:CD1	2.02	0.90
3:A5:1316:VAL:CG2	28:Z2:833:ASP:CB	2.49	0.90
3:A6:1363:ASP:OD1	28:Z4:869:HIS:HA	1.70	0.90
3:A6:1364:GLN:O	28:Z4:849:ALA:HB2	1.71	0.90
6:D7:480:PHE:HE2	11:I3:181:GLN:O	1.54	0.90
11:I1:882:LYS:HB2	17:O1:245:GLU:C	1.96	0.90
11:I1:945:LEU:CG	17:O1:259:ASP:H	1.85	0.90
11:I1:1027:ALA:HB3	20:R1:172:ASP:OD1	1.69	0.90
11:I1:1049:LEU:CB	20:R1:146:LEU:CD1	2.48	0.90
11:I2:943:ALA:O	17:O3:260:LEU:HB2	1.72	0.90
11:I4:1271:GLU:HB2	26:X3:528:GLU:CD	1.97	0.90
11:I5:1276:GLN:O	26:X2:518:ASP:HA	1.70	0.90
17:O3:102:LYS:HB3	18:P3:322:LYS:HZ2	1.14	0.90
28:Z1:554:PHE:CE2	30:b1:234:LEU:HA	2.06	0.90
28:Z2:394:ASP:OD2	30:b2:241:PRO:C	2.15	0.90
2:A2:1151:THR:HA	5:C2:733:LEU:HA	1.52	0.90
1:A3:1223:GLU:HB3	2:A4:724:LEU:CD2	2.00	0.90
2:A4:827:ILE:HD12	2:A4:859:GLN:CB	1.99	0.90
2:A4:985:ALA:CA	6:D3:500:LYS:N	2.35	0.90
2:A4:1135:ARG:CB	3:A6:159:SER:O	2.19	0.90
3:A5:227:SER:OG	5:C2:734:VAL:CG1	2.20	0.90
3:A5:1364:GLN:HE21	28:Z2:843:LYS:HA	1.34	0.90
3:A5:1399:ARG:HH11	28:Z2:909:LEU:HA	0.80	0.90
3:A6:1307:PHE:CD2	28:Z4:833:ASP:O	2.14	0.90
11:I1:846:ILE:CG1	15:M1:594:LYS:HD2	2.02	0.90
11:I1:952:LEU:CB	16:N1:400:LEU:HD22	2.01	0.90
11:I1:976:ARG:HH22	15:M1:622:VAL:HG21	1.35	0.90
11:I1:980:ILE:HB	15:M1:618:GLN:CA	2.01	0.90
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG2	1.51	0.90
11:I1:1114:VAL:HG23	16:N1:435:ALA:CA	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1739:GLU:HB3	11:I2:1540:LYS:HE2	1.52	0.90
11:I2:850:ILE:HG23	15:M3:598:GLU:CD	1.90	0.90
11:I2:978:LYS:CE	20:R3:152:LYS:C	2.45	0.90
11:I2:995:SER:H	17:O3:271:GLU:HB2	1.36	0.90
11:I2:1021:ILE:CD1	16:N3:410:MET:HG3	2.00	0.90
11:I2:1059:PRO:HB2	17:O3:275:LEU:N	1.84	0.90
28:Z1:522:ASN:CB	30:b1:240:LEU:HB3	2.00	0.90
28:Z1:534:ASP:HA	30:b1:164:CYS:CB	2.01	0.90
28:Z2:535:ILE:CG1	30:b2:182:PRO:CG	2.48	0.90
28:Z4:524:VAL:C	30:b4:208:ASN:CG	2.38	0.90
1:A1:868:GLN:CA	6:D3:280:GLN:CB	2.50	0.90
1:A1:1332:ARG:NH1	6:D1:682:ASN:H	1.70	0.90
1:A1:1401:VAL:N	2:A2:884:ARG:HH12	1.70	0.90
2:A2:969:ASP:O	6:D1:192:TYR:O	1.90	0.90
2:A2:974:PRO:HD3	6:D1:205:LEU:CG	2.02	0.90
2:A2:980:ARG:HE	6:D1:525:ARG:CB	1.84	0.90
2:A2:1135:ARG:C	3:A5:147:LEU:CD2	2.29	0.90
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG13	1.52	0.90
2:A4:909:LYS:HD2	6:D3:555:ARG:NH1	1.87	0.90
2:A4:1148:ARG:NH1	3:A6:131:PRO:CD	2.34	0.90
3:A5:1005:PHE:HE1	11:I5:67:LYS:HE3	0.89	0.90
3:A5:1024:ASP:CG	11:I5:96:GLU:C	2.38	0.90
3:A6:164:LEU:N	5:C4:744:PHE:CD2	2.40	0.90
11:I1:946:THR:HA	17:O1:257:ALA:HA	0.94	0.90
11:I2:828:VAL:O	17:O3:237:PRO:CG	2.19	0.90
11:I2:956:ILE:HG21	15:M3:600:ASN:CA	2.01	0.90
11:I2:977:ASN:OD1	15:M3:621:ARG:CB	2.19	0.90
11:I2:1052:LEU:HD22	16:N3:438:LEU:CG	2.01	0.90
17:O4:107:THR:HA	18:P4:318:PRO:CG	2.02	0.90
22:T2:829:MET:HE2	22:T2:849:LEU:HD12	1.54	0.90
28:Z1:400:LYS:O	30:b1:252:ALA:CB	2.20	0.90
28:Z1:561:GLN:HG3	30:b1:236:THR:CA	2.02	0.90
28:Z2:400:LYS:O	30:b2:252:ALA:CB	2.20	0.90
28:Z2:522:ASN:CG	30:b2:241:PRO:HB3	1.94	0.90
28:Z2:524:VAL:HG21	30:b2:236:THR:O	1.19	0.90
28:Z3:555:LYS:HE3	30:b3:216:LEU:HD23	1.53	0.90
2:A2:858:ALA:O	6:D1:606:LYS:HE2	1.68	0.90
2:A2:979:GLY:O	6:D1:473:GLU:OE2	1.89	0.90
2:A2:1143:LEU:CB	3:A5:132:ASP:H	1.85	0.90
1:A3:1056:PHE:HZ	6:D3:810:ARG:N	1.48	0.90
2:A4:1132:PRO:HG2	3:A6:159:SER:C	1.97	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1367:THR:HG22	28:Z2:844:CYS:C	1.65	0.90
9:G2:255:LEU:CA	17:O4:262:ASP:OD2	2.19	0.90
11:I1:841:PHE:CG	17:O1:243:LEU:HD11	1.99	0.90
11:I1:885:GLU:C	16:N1:397:GLU:OE2	2.13	0.90
11:I2:900:ARG:CB	17:O3:232:LYS:CD	2.45	0.90
11:I2:966:TRP:O	20:R3:150:ASN:O	1.89	0.90
17:O3:155:VAL:CB	18:P3:321:ILE:HG23	2.00	0.90
28:Z1:522:ASN:CG	30:b1:241:PRO:HB3	1.94	0.90
28:Z1:554:PHE:CZ	30:b1:234:LEU:HA	2.07	0.90
28:Z2:401:THR:HB	30:b2:253:SER:CA	2.02	0.90
28:Z2:561:GLN:HB2	30:b2:235:LEU:C	1.95	0.90
28:Z3:524:VAL:C	30:b3:208:ASN:CG	2.38	0.90
28:Z4:400:LYS:O	30:b4:252:ALA:CB	2.20	0.90
1:A1:1202:GLU:O	2:A2:732:GLN:HA	1.72	0.90
1:A1:1396:GLY:CA	2:A2:888:GLN:HB3	1.78	0.90
2:A2:973:GLU:OE1	6:D1:192:TYR:CG	2.25	0.90
1:A3:1054:SER:CA	6:D3:809:ALA:O	2.18	0.90
2:A4:867:GLU:H	6:D3:605:THR:HG22	0.92	0.90
11:I1:895:ARG:CZ	17:O1:233:THR:HG22	2.01	0.90
11:I1:920:PHE:CZ	17:O1:247:TRP:CD1	2.55	0.90
11:I1:984:GLU:OE2	15:M1:615:PRO:O	1.90	0.90
11:I1:1029:LEU:HB3	20:R1:174:ARG:HB2	0.90	0.90
11:I1:1042:LEU:HA	15:M1:616:LEU:HD21	0.91	0.90
11:I1:1108:PRO:HG2	16:N1:443:GLU:N	1.84	0.90
11:I2:899:LEU:HD23	17:O3:235:ASN:HB2	1.54	0.90
11:I2:1036:PRO:CG	15:M3:623:LEU:N	2.14	0.90
11:I2:1040:HIS:CB	15:M3:619:ILE:CG2	2.49	0.90
11:I2:1109:LEU:HD21	17:O3:287:LEU:HD12	1.53	0.90
11:I4:1273:GLU:O	26:X3:523:LEU:HA	1.70	0.90
28:Z1:535:ILE:CG1	30:b1:182:PRO:CG	2.48	0.90
28:Z1:557:CYS:HB3	30:b1:210:ARG:NH1	1.51	0.90
28:Z3:400:LYS:O	30:b3:252:ALA:CB	2.20	0.90
28:Z3:522:ASN:CG	30:b3:241:PRO:HB3	1.94	0.90
28:Z3:534:ASP:CG	30:b3:183:LEU:HB2	1.97	0.90
28:Z3:558:LEU:CA	30:b3:236:THR:N	2.29	0.90
1:A1:1226:LEU:HA	2:A2:728:LYS:HD3	1.52	0.90
1:A3:835:THR:CG2	6:D1:302:PRO:HG3	2.01	0.90
1:A3:1197:ALA:CB	2:A4:728:LYS:HG3	2.02	0.90
2:A4:827:ILE:CD1	2:A4:859:GLN:N	2.34	0.90
2:A4:904:GLN:HE21	6:D3:603:SER:H	1.20	0.90
2:A4:978:ASP:O	6:D3:475:ALA:HB3	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1094:ILE:HD11	6:D4:708:ASP:HA	1.52	0.90
3:A5:231:SER:N	5:C2:736:ASN:CG	2.30	0.90
3:A6:209:VAL:HG22	5:C4:742:ASP:CB	2.01	0.90
3:A6:1362:ALA:HB3	28:Z4:873:LEU:H	1.30	0.90
11:I1:1037:THR:HG22	20:R1:173:LEU:CG	1.95	0.90
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG2	0.90	0.90
11:I2:955:LYS:HA	16:N3:399:HIS:O	1.70	0.90
11:I3:1271:GLU:N	26:X1:529:TRP:N	2.20	0.90
11:I3:1277:LEU:CG	26:X1:522:MET:CG	2.23	0.90
11:I3:1280:PRO:HD3	26:X1:523:LEU:CD1	2.01	0.90
21:S2:1016:LYS:HE2	21:S2:1039:GLU:HG3	1.53	0.90
28:Z1:534:ASP:CG	30:b1:183:LEU:HB2	1.97	0.90
28:Z1:541:PRO:CD	30:b1:180:GLY:HA3	2.01	0.90
28:Z2:443:LEU:HD21	30:b2:250:GLY:HA2	1.52	0.90
28:Z3:554:PHE:CE2	30:b3:234:LEU:HA	2.06	0.90
28:Z4:410:ASN:CB	30:b4:251:ILE:CG1	2.36	0.90
1:A1:1204:TRP:CH2	2:A2:676:LEU:HD12	2.06	0.89
2:A2:1135:ARG:O	3:A5:134:VAL:HG11	1.72	0.89
2:A4:973:GLU:HA	6:D3:205:LEU:HB3	0.90	0.89
2:A4:975:GLU:N	6:D3:499:LEU:CG	2.34	0.89
2:A4:978:ASP:N	6:D3:467:PHE:HE1	1.68	0.89
2:A4:982:THR:HA	6:D3:493:ALA:O	1.70	0.89
2:A4:982:THR:H	6:D3:496:LEU:C	1.71	0.89
2:A4:1155:ASN:HB3	3:A6:177:ILE:HG13	1.54	0.89
3:A5:1415:PHE:C	28:Z2:962:LYS:N	2.28	0.89
3:A6:1406:GLY:N	28:Z4:924:ARG:H	1.65	0.89
11:I1:937:TYR:CA	17:O1:258:GLU:HA	2.02	0.89
11:I1:1104:LEU:O	16:N1:436:ALA:CB	2.20	0.89
11:I2:1036:PRO:HG3	17:O3:287:LEU:CD2	2.01	0.89
11:I2:1043:LEU:N	15:M3:616:LEU:CD1	2.34	0.89
11:I2:1104:LEU:CD2	16:N3:433:GLU:CG	2.01	0.89
11:I3:1278:ALA:HB2	26:X1:516:ASN:O	1.73	0.89
11:I4:1274:HIS:C	26:X3:525:ILE:HB	1.94	0.89
11:I4:1275:SER:HA	26:X3:508:LEU:CD1	2.03	0.89
21:S2:176:MET:CE	21:S2:212:LEU:HD11	2.02	0.89
28:Z2:555:LYS:HG3	30:b2:233:TRP:HE3	1.32	0.89
28:Z3:394:ASP:OD2	30:b3:241:PRO:C	2.15	0.89
28:Z3:528:ILE:HG12	30:b3:210:ARG:HH12	0.73	0.89
2:A2:1121:LEU:O	3:A5:133:LYS:CB	2.21	0.89
1:A3:1099:GLN:HG2	11:I2:1414:CYS:C	1.96	0.89
2:A4:976:LEU:HB3	6:D3:472:PHE:CD2	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1164:TYR:OH	4:B6:343:LYS:HD2	1.72	0.89
3:A5:232:LEU:CD1	5:C2:740:ARG:C	2.45	0.89
3:A6:177:ILE:CD1	5:C4:736:ASN:O	2.20	0.89
11:I1:925:LEU:CA	15:M1:596:ILE:HB	2.01	0.89
11:I1:1042:LEU:C	15:M1:616:LEU:HD21	1.97	0.89
11:I1:1048:GLU:OE2	20:R1:143:PHE:CB	2.20	0.89
11:I1:1107:SER:HB3	16:N1:440:GLU:OE1	1.03	0.89
11:I2:885:GLU:HA	16:N3:397:GLU:CB	2.01	0.89
11:I2:899:LEU:HD11	17:O3:234:LEU:HB3	1.50	0.89
11:I2:1061:ASP:HB2	17:O3:278:GLU:HB2	1.54	0.89
21:S1:176:MET:CE	21:S1:212:LEU:HD11	2.02	0.89
28:Z1:394:ASP:OD2	30:b1:241:PRO:C	2.15	0.89
28:Z1:443:LEU:HD21	30:b1:250:GLY:HA2	1.52	0.89
28:Z1:531:LYS:HD3	30:b1:183:LEU:N	1.87	0.89
28:Z1:537:THR:HG22	28:Z1:743:ASN:HA	1.54	0.89
28:Z2:561:GLN:HG3	30:b2:236:THR:CA	2.02	0.89
28:Z3:443:LEU:HD21	30:b3:250:GLY:HA2	1.52	0.89
28:Z3:561:GLN:HB2	30:b3:235:LEU:C	1.95	0.89
1:A3:1048:ARG:C	6:D3:816:VAL:CG2	2.45	0.89
2:A4:908:LEU:C	6:D3:552:TYR:CE1	2.49	0.89
3:A5:1026:PRO:HG2	11:I5:73:TYR:CD1	2.06	0.89
9:G1:254:ASN:ND2	17:O2:261:LYS:CE	2.33	0.89
11:I1:874:LEU:HD23	17:O1:252:VAL:HG13	1.52	0.89
11:I1:894:VAL:HG21	17:O1:238:ALA:H	1.09	0.89
11:I1:939:ASN:O	17:O1:265:ASN:CB	2.20	0.89
11:I1:955:LYS:HE3	16:N1:397:GLU:CA	2.02	0.89
11:I1:955:LYS:NZ	17:O1:249:ARG:NH2	2.20	0.89
11:I1:1068:HIS:HE1	16:N1:431:VAL:HB	1.38	0.89
11:I2:833:PHE:CZ	17:O3:242:ARG:N	2.40	0.89
11:I2:846:ILE:HG21	17:O3:247:TRP:CZ2	2.05	0.89
11:I2:895:ARG:C	17:O3:233:THR:C	2.36	0.89
11:I2:982:GLN:HB3	15:M3:621:ARG:HH22	1.37	0.89
11:I2:1037:THR:HB	15:M3:624:ASN:ND2	1.87	0.89
28:Z1:561:GLN:HB2	30:b1:235:LEU:C	1.95	0.89
28:Z4:401:THR:HB	30:b4:253:SER:CA	2.02	0.89
28:Z4:402:GLY:HA2	30:b4:273:LYS:CB	2.02	0.89
2:A2:781:ARG:N	6:D1:673:ARG:O	2.04	0.89
2:A2:865:ALA:H	6:D1:607:PRO:HD2	1.07	0.89
2:A2:868:GLN:HE22	6:D1:608:ILE:C	1.77	0.89
2:A2:987:LYS:CD	6:D1:555:ARG:NE	2.34	0.89
1:A3:1048:ARG:NH2	6:D3:815:GLU:OE2	1.69	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:CB	6:D3:605:THR:CG2	2.49	0.89
2:A4:876:ARG:HD3	6:D3:558:LYS:HA	1.50	0.89
2:A4:880:ALA:HB2	6:D3:558:LYS:HE3	1.54	0.89
2:A4:908:LEU:HD21	6:D3:601:PHE:C	1.97	0.89
3:A5:1101:GLN:CD	11:I5:33:THR:CG2	2.45	0.89
3:A6:1411:ARG:HD2	28:Z4:968:ARG:CA	2.02	0.89
11:I1:1017:VAL:HA	16:N1:407:ALA:O	1.73	0.89
11:I1:1667:GLN:NE2	11:I2:1662:ARG:HA	1.85	0.89
11:I2:950:LEU:HB2	16:N3:407:ALA:CA	2.02	0.89
11:I2:967:SER:H	20:R3:153:GLN:NE2	1.70	0.89
11:I5:1273:GLU:OE2	26:X2:524:SER:HA	0.90	0.89
28:Z3:561:GLN:HG3	30:b3:236:THR:CA	2.02	0.89
1:A1:870:HIS:CG	6:D3:279:HIS:CE1	2.53	0.89
1:A1:871:ASN:OD1	6:D3:278:LEU:C	2.02	0.89
2:A2:980:ARG:CZ	6:D1:503:LEU:HB2	2.02	0.89
2:A4:1122:LEU:HA	3:A6:136:GLU:H	1.38	0.89
3:A5:1093:THR:HG23	11:I5:37:GLU:OE2	1.11	0.89
3:A5:1395:LYS:HE3	28:Z2:872:TYR:H	1.38	0.89
3:A6:1354:TRP:O	28:Z4:876:LEU:O	1.90	0.89
11:I1:873:ILE:C	17:O1:251:ILE:HG22	1.98	0.89
11:I1:949:CYS:N	17:O1:253:LEU:O	2.05	0.89
11:I1:1017:VAL:HG13	16:N1:410:MET:CB	1.96	0.89
11:I1:1041:GLN:HG2	15:M1:616:LEU:CG	1.99	0.89
11:I1:1053:GLY:O	17:O1:283:ALA:HB2	1.20	0.89
11:I1:1667:GLN:O	11:I2:1665:LEU:CD2	2.19	0.89
11:I2:948:ALA:C	17:O3:253:LEU:O	2.14	0.89
11:I2:1021:ILE:HG13	16:N3:410:MET:CB	2.02	0.89
11:I2:1052:LEU:HD23	16:N3:434:LEU:HD11	1.51	0.89
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:HA3	2.06	0.89
17:O3:155:VAL:CB	18:P3:321:ILE:CG2	2.50	0.89
22:T1:829:MET:HE2	22:T1:849:LEU:HD12	1.54	0.89
28:Z1:524:VAL:C	30:b1:208:ASN:CG	2.38	0.89
28:Z3:524:VAL:HG21	30:b3:236:THR:O	1.18	0.89
28:Z3:537:THR:HG22	28:Z3:743:ASN:HA	1.54	0.89
28:Z4:528:ILE:HG12	30:b4:210:ARG:HH12	0.72	0.89
1:A1:868:GLN:C	6:D3:280:GLN:HB3	1.97	0.89
2:A4:908:LEU:CD2	6:D3:601:PHE:CB	2.49	0.89
2:A4:983:LEU:HB2	6:D3:528:PHE:HZ	1.26	0.89
3:A5:999:SER:HG	11:I5:63:PRO:HD2	1.07	0.89
11:I1:1109:LEU:CB	16:N1:441:PHE:H	1.85	0.89
11:I1:1112:SER:N	16:N1:439:ARG:HB3	1.83	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:874:LEU:HA	17:O3:255:GLY:HA3	0.92	0.89
11:I2:948:ALA:CB	17:O3:253:LEU:C	2.44	0.89
11:I2:965:ALA:HB1	20:R3:153:GLN:O	1.72	0.89
11:I2:980:ILE:HB	15:M3:618:GLN:CG	2.02	0.89
11:I2:1030:ARG:CD	20:R3:175:GLN:OE1	2.07	0.89
11:I2:1109:LEU:HB3	16:N3:438:LEU:CA	1.96	0.89
28:Z4:554:PHE:CD1	30:b4:232:PRO:CB	2.51	0.89
2:A2:227:SER:HG	6:D1:711:PHE:HD2	1.14	0.89
2:A2:864:ARG:HG2	6:D1:609:ILE:HB	1.55	0.89
2:A2:867:GLU:CG	6:D1:593:ARG:NH2	2.36	0.89
2:A2:1127:ALA:C	3:A5:140:ALA:HB3	1.96	0.89
3:A5:1391:ARG:HB3	28:Z2:871:HIS:N	1.88	0.89
3:A6:1324:ASP:CG	28:Z4:907:LEU:HA	1.97	0.89
3:A6:1395:LYS:HG2	28:Z4:889:LEU:C	1.97	0.89
9:G2:254:ASN:O	17:O4:262:ASP:OD2	1.91	0.89
9:G2:263:MET:HE3	17:O4:259:ASP:OD2	1.72	0.89
11:I1:846:ILE:HD12	15:M1:594:LYS:CG	2.01	0.89
11:I1:886:LEU:HB2	17:O1:242:ARG:HA	1.52	0.89
11:I1:921:GLU:CD	16:N1:392:THR:O	2.16	0.89
11:I2:939:ASN:CB	17:O3:265:ASN:OD1	1.99	0.89
11:I2:966:TRP:N	20:R3:154:ALA:N	2.21	0.89
11:I2:1018:LYS:CE	16:N3:413:VAL:CG1	2.23	0.89
28:Z3:523:ASP:HB3	30:b3:238:ASN:HA	1.54	0.89
28:Z4:555:LYS:HE3	30:b4:216:LEU:HD23	1.53	0.89
2:A2:827:ILE:CD1	2:A2:859:GLN:N	2.34	0.89
2:A2:867:GLU:CB	6:D1:605:THR:HB	2.02	0.89
2:A2:965:LYS:HA	6:D1:199:GLY:HA2	1.51	0.89
2:A4:911:TYR:CE2	6:D3:555:ARG:NH2	2.41	0.89
2:A4:978:ASP:HB3	6:D3:476:VAL:HG22	1.35	0.89
3:A5:164:LEU:CB	5:C2:744:PHE:CD1	2.54	0.89
3:A5:233:THR:HG22	5:C2:737:LYS:HD3	1.54	0.89
3:A6:1316:VAL:CG1	28:Z4:870:ILE:CB	2.50	0.89
3:A6:1351:MSE:HB3	28:Z4:918:PHE:CB	2.03	0.89
11:I1:841:PHE:HB3	15:M1:588:MET:HB2	1.54	0.89
11:I1:846:ILE:CD1	15:M1:594:LYS:HB3	1.85	0.89
11:I2:948:ALA:HB2	17:O3:256:TYR:HB2	1.52	0.89
11:I2:1038:ILE:HD12	15:M3:617:THR:OG1	1.71	0.89
11:I3:1277:LEU:CD1	26:X1:522:MET:CG	2.46	0.89
28:Z2:534:ASP:CG	30:b2:183:LEU:HB2	1.97	0.89
28:Z2:537:THR:HG22	28:Z2:743:ASN:HA	1.54	0.89
28:Z2:541:PRO:CD	30:b2:180:GLY:HA3	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:531:LYS:HD3	30:b3:183:LEU:N	1.88	0.89
28:Z3:541:PRO:CD	30:b3:180:GLY:HA3	2.01	0.89
28:Z4:410:ASN:HD21	30:b4:252:ALA:HB2	0.91	0.89
28:Z4:554:PHE:CZ	30:b4:234:LEU:HA	2.07	0.89
1:A1:1204:TRP:HH2	2:A2:757:LEU:HD22	1.09	0.89
1:A1:1229:VAL:HG21	2:A2:725:GLU:CG	2.02	0.89
2:A2:965:LYS:CG	6:D1:196:ILE:O	2.21	0.89
2:A2:1149:THR:OG1	3:A5:172:PRO:CG	2.19	0.89
2:A4:864:ARG:HH22	6:D3:610:ASN:ND2	1.70	0.89
2:A4:1139:ILE:HA	3:A6:134:VAL:HB	1.55	0.89
2:A4:1151:THR:CG2	5:C4:734:VAL:HB	2.01	0.89
3:A6:232:LEU:HB3	5:C4:736:ASN:O	1.71	0.89
3:A6:1358:LEU:HD21	28:Z4:875:LEU:HA	1.54	0.89
8:F1:1093:LEU:HG	17:O2:241:SER:HA	1.54	0.89
11:I1:980:ILE:CG2	15:M1:618:GLN:O	2.21	0.89
11:I1:1042:LEU:O	16:N1:430:ARG:CD	2.21	0.89
11:I2:1040:HIS:O	15:M3:616:LEU:CD1	2.21	0.89
11:I2:1113:LEU:CD2	17:O3:282:LYS:NZ	2.34	0.89
11:I4:1270:LYS:HE2	26:X3:530:ARG:HG3	1.54	0.89
21:S4:176:MET:CE	21:S4:212:LEU:HD11	2.02	0.89
28:Z4:394:ASP:OD2	30:b4:241:PRO:C	2.15	0.89
28:Z4:561:GLN:HG3	30:b4:236:THR:CA	2.02	0.89
29:a1:252[B]:MET:HG2	29:a1:253:PRO:HD2	1.54	0.89
1:A1:870:HIS:HB2	6:D3:280:GLN:CA	2.03	0.89
2:A2:870:HIS:CG	6:D1:566:PHE:CE1	2.55	0.89
2:A2:980:ARG:CB	6:D1:473:GLU:HG3	2.02	0.89
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG12	0.90	0.89
2:A4:909:LYS:HG2	6:D3:552:TYR:CE1	2.07	0.89
2:A4:973:GLU:CB	6:D3:498:GLU:HB2	2.01	0.89
2:A4:989:MSE:HE2	6:D3:240:ASP:OD1	1.73	0.89
3:A6:1413:SER:C	28:Z4:964:LEU:N	2.20	0.89
9:G1:256:GLN:H	17:O2:257:ALA:HB2	1.38	0.89
9:G1:263:MET:SD	17:O2:260:LEU:HD22	2.12	0.89
11:I1:976:ARG:HH22	15:M1:622:VAL:CB	1.83	0.89
11:I1:1046:HIS:HB3	17:O1:280:GLU:O	1.72	0.89
11:I1:1543:LEU:CD1	11:I2:1677:LYS:HE2	2.03	0.89
11:I1:1669:ARG:CZ	11:I2:1610:VAL:CG1	2.51	0.89
11:I2:951:LYS:HD2	16:N3:403:VAL:CA	1.74	0.89
11:I2:952:LEU:HD23	15:M3:602:MET:HB2	1.53	0.89
11:I2:958:THR:OG1	16:N3:399:HIS:HD2	1.54	0.89
11:I2:996:LEU:HD11	15:M3:607:SER:O	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:775:ASP:OD1	29:a4:40[A]:GLU:OE2	1.91	0.89
28:Z4:534:ASP:HA	30:b4:164:CYS:CB	2.01	0.89
29:a2:252[B]:MET:HG2	29:a2:253:PRO:HD2	1.54	0.89
2:A2:1164:TYR:CA	4:B5:342:ARG:NE	1.96	0.88
2:A2:1164:TYR:CE1	4:B5:342:ARG:HB3	2.08	0.88
1:A3:1099:GLN:HE21	11:I2:1415:SER:C	1.74	0.88
2:A4:864:ARG:NH2	6:D3:610:ASN:ND2	2.20	0.88
3:A6:1366:LEU:CA	28:Z4:868:GLN:CB	2.30	0.88
5:C3:732:LYS:HZ2	11:I2:1225:LYS:CD	1.80	0.88
11:I1:921:GLU:HB2	16:N1:392:THR:HB	1.54	0.88
11:I1:1055:GLU:CG	17:O1:280:GLU:CB	2.48	0.88
11:I2:899:LEU:HD12	17:O3:232:LYS:C	1.97	0.88
11:I2:966:TRP:CZ3	20:R3:167:GLN:HB3	2.08	0.88
11:I2:978:LYS:HZ1	20:R3:155:GLU:H	1.15	0.88
11:I2:979:ALA:HB2	20:R3:167:GLN:HE22	1.37	0.88
11:I2:990:GLU:C	17:O3:272:SER:HA	1.97	0.88
28:Z2:402:GLY:HA2	30:b2:273:LYS:CB	2.02	0.88
28:Z2:531:LYS:HD3	30:b2:183:LEU:N	1.88	0.88
28:Z3:401:THR:HB	30:b3:253:SER:CA	2.02	0.88
29:a3:252[B]:MET:HG2	29:a3:253:PRO:HD2	1.55	0.88
2:A2:1159:ASP:OD2	3:A5:175:GLU:OE2	1.92	0.88
2:A4:975:GLU:N	6:D3:499:LEU:CD1	2.35	0.88
2:A4:975:GLU:HB2	6:D3:499:LEU:CB	1.99	0.88
3:A5:1024:ASP:CB	11:I5:98:ALA:CB	2.45	0.88
3:A5:1027:HIS:CD2	11:I5:65:LYS:O	2.25	0.88
11:I1:1605:LEU:HB2	11:I2:1669:ARG:CZ	2.03	0.88
11:I1:1669:ARG:HD2	11:I2:1605:LEU:HD13	0.89	0.88
11:I2:895:ARG:HH12	16:N3:386:MET:HG3	1.36	0.88
11:I3:1273:GLU:N	26:X1:526:CYS:CA	2.25	0.88
17:O3:147:ALA:HB1	18:P3:328:PRO:HG2	1.54	0.88
21:S3:176:MET:CE	21:S3:212:LEU:HD11	2.02	0.88
28:Z3:554:PHE:CZ	30:b3:234:LEU:HA	2.07	0.88
28:Z3:560:ASN:HD22	30:b3:211:ILE:HG21	1.38	0.88
28:Z4:554:PHE:CE2	30:b4:234:LEU:HA	2.06	0.88
2:A2:823:VAL:C	2:A2:856:PHE:CE1	2.49	0.88
2:A2:1152:ASP:CG	3:A5:171:HIS:CA	2.09	0.88
2:A2:1164:TYR:CD1	4:B5:342:ARG:CG	2.56	0.88
1:A3:1098:ARG:HD3	11:I2:1478:VAL:HG22	1.55	0.88
2:A4:173:ASN:HD22	6:D3:762:ARG:CB	1.86	0.88
2:A4:780:GLU:CD	6:D3:679:ILE:HD13	1.99	0.88
2:A4:872:ALA:C	6:D3:565:MET:HA	1.97	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1148:ARG:CZ	3:A6:131:PRO:HG3	2.01	0.88
2:A4:1156:ASP:HB3	3:A6:176:LEU:HD23	1.55	0.88
3:A5:996:ASN:HB2	11:I5:56:ARG:C	1.64	0.88
3:A6:1364:GLN:N	28:Z4:872:TYR:CB	2.21	0.88
3:A6:1401:VAL:CA	28:Z4:919:PHE:CA	2.52	0.88
11:I1:833:PHE:CD2	17:O1:241:SER:HB3	1.95	0.88
11:I1:981:VAL:HG13	20:R1:151:LYS:CG	2.03	0.88
21:S2:138:VAL:HG11	21:S2:170:THR:HG22	1.53	0.88
28:Z2:554:PHE:CZ	30:b2:234:LEU:HA	2.07	0.88
28:Z3:402:GLY:HA2	30:b3:273:LYS:CB	2.02	0.88
28:Z3:561:GLN:HB2	30:b3:236:THR:H	1.10	0.88
2:A2:868:GLN:NE2	6:D1:608:ILE:O	2.04	0.88
3:A5:230:LYS:H	5:C2:739:MET:CE	1.78	0.88
3:A6:165:PHE:HD2	5:C4:743:LEU:HD13	1.03	0.88
3:A6:1364:GLN:CD	28:Z4:846:SER:CB	2.46	0.88
11:I1:950:LEU:HD13	16:N1:406:HIS:O	1.29	0.88
11:I1:953:LEU:N	16:N1:403:VAL:HG11	1.85	0.88
11:I1:1049:LEU:HB3	20:R1:146:LEU:CD1	2.02	0.88
11:I2:958:THR:HB	16:N3:399:HIS:CG	2.09	0.88
11:I2:1043:LEU:CD1	16:N3:430:ARG:O	2.20	0.88
28:Z1:402:GLY:HA2	30:b1:273:LYS:CB	2.02	0.88
1:A1:874:VAL:HG22	6:D3:272:VAL:CB	1.99	0.88
1:A1:1052:THR:HG22	6:D1:812:VAL:CG1	2.02	0.88
1:A1:1204:TRP:HZ2	2:A2:676:LEU:HD12	1.12	0.88
2:A2:866:SER:N	6:D1:605:THR:CA	2.36	0.88
2:A4:911:TYR:HE2	6:D3:555:ARG:NH2	1.71	0.88
3:A5:231:SER:N	5:C2:739:MET:H	1.72	0.88
3:A6:146:LYS:CD	5:C4:746:PRO:HA	1.94	0.88
3:A6:1369:ILE:HA	28:Z4:826:TYR:CA	2.03	0.88
3:A6:1416:ARG:HB3	28:Z4:977:ALA:HB3	1.53	0.88
11:I1:849:LEU:CD1	17:O1:247:TRP:CD2	2.56	0.88
11:I1:950:LEU:HD23	16:N1:406:HIS:CD2	2.04	0.88
11:I2:850:ILE:CG2	15:M3:598:GLU:HG2	1.99	0.88
11:I2:943:ALA:HA	17:O3:260:LEU:CD1	2.03	0.88
11:I2:1035:GLN:O	15:M3:623:LEU:HD23	1.08	0.88
11:I2:1048:GLU:HB2	17:O3:284:LYS:HB3	1.54	0.88
11:I4:1269:ARG:O	26:X3:524:SER:O	1.90	0.88
17:O3:151:LEU:HD23	18:P3:325:ILE:HG12	1.14	0.88
17:O4:109:PRO:HB2	18:P4:318:PRO:CB	2.04	0.88
22:T4:829:MET:HE2	22:T4:849:LEU:HD12	1.54	0.88
28:Z1:528:ILE:HG12	30:b1:210:ARG:HH12	0.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:555:LYS:HE3	30:b2:216:LEU:HD23	1.53	0.88
2:A2:1133:GLU:CA	3:A5:138:LEU:HD22	1.86	0.88
1:A3:1052:THR:HG22	6:D3:815:GLU:N	1.87	0.88
3:A5:188:ALA:HA	5:C2:746:PRO:HG2	0.91	0.88
3:A6:1416:ARG:CG	28:Z4:966:CYS:CB	2.38	0.88
11:I1:797:LEU:CD1	17:O1:245:GLU:CA	2.48	0.88
11:I1:1020:ALA:N	16:N1:405:ALA:O	2.06	0.88
11:I1:1673:VAL:HG11	11:I2:1610:VAL:HG22	1.55	0.88
11:I2:828:VAL:O	17:O3:237:PRO:HG2	1.73	0.88
11:I2:887:GLN:HB2	16:N3:393:ILE:HG12	1.55	0.88
11:I2:982:GLN:HB3	15:M3:621:ARG:HH12	1.36	0.88
11:I2:1030:ARG:O	20:R3:177:LEU:N	1.97	0.88
28:Z2:555:LYS:CG	30:b2:233:TRP:HE3	1.86	0.88
28:Z3:555:LYS:CG	30:b3:213:ASP:H	1.87	0.88
28:Z4:531:LYS:HD3	30:b4:183:LEU:N	1.88	0.88
2:A2:1159:ASP:CG	3:A5:175:GLU:OE2	2.15	0.88
2:A4:1148:ARG:HB3	3:A6:173:ASN:CA	2.03	0.88
2:A4:1156:ASP:CA	3:A6:176:LEU:HD23	1.94	0.88
3:A5:164:LEU:CB	5:C2:744:PHE:CG	2.48	0.88
3:A6:232:LEU:CA	5:C4:738:ASP:HB2	2.04	0.88
3:A6:1365:VAL:HB	28:Z4:871:HIS:CB	2.04	0.88
3:A6:1404:LEU:HD12	28:Z4:919:PHE:CB	2.04	0.88
11:I2:898:VAL:HG21	17:O3:236:ASP:C	1.98	0.88
11:I2:921:GLU:C	15:M3:593:ALA:HA	1.95	0.88
11:I2:1017:VAL:HG22	17:O3:260:LEU:HD21	1.52	0.88
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD13	1.55	0.88
11:I3:815:ILE:CG2	26:X1:497:ARG:H	1.84	0.88
18:P1:276:SER:O	18:P4:322:LYS:HD2	1.74	0.88
28:Z1:555:LYS:HE3	30:b1:216:LEU:HD23	1.53	0.88
28:Z1:555:LYS:CG	30:b1:233:TRP:HE3	1.87	0.88
28:Z2:530:LYS:CB	30:b2:204:GLU:OE1	2.22	0.88
28:Z3:530:LYS:CB	30:b3:204:GLU:OE1	2.22	0.88
28:Z4:530:LYS:CB	30:b4:204:GLU:OE1	2.22	0.88
2:A2:989:MSE:HE1	6:D1:240:ASP:HA	1.17	0.88
2:A2:1156:ASP:O	3:A5:167:TRP:HB3	1.71	0.88
1:A3:1204:TRP:HB2	2:A4:731:ILE:CG2	1.80	0.88
2:A4:1154:PHE:CB	3:A6:175:GLU:HB2	2.03	0.88
3:A5:1312:ARG:HD3	28:Z2:832:PHE:HA	0.89	0.88
3:A6:234:LEU:N	5:C4:737:LYS:O	2.06	0.88
3:A6:1387:ILE:N	28:Z4:863:ASP:CB	2.06	0.88
11:I1:919:ALA:C	15:M1:592:LEU:CD2	2.47	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:HA3	15:M1:592:LEU:H	1.34	0.88
11:I1:983:LEU:H	15:M1:621:ARG:CZ	1.87	0.88
11:I1:989:GLY:HA3	15:M1:614:ASP:OD1	1.71	0.88
11:I1:1036:PRO:N	15:M1:623:LEU:O	2.06	0.88
11:I1:1065:SER:OG	16:N1:430:ARG:HG3	1.71	0.88
11:I1:1109:LEU:HG	16:N1:438:LEU:CA	2.00	0.88
11:I1:1604:ALA:CA	11:I2:1739:GLU:C	2.37	0.88
28:Z2:528:ILE:HG12	30:b2:210:ARG:HH12	0.72	0.88
28:Z4:410:ASN:HB2	30:b4:251:ILE:HG13	1.56	0.88
2:A2:904:GLN:O	6:D1:602:THR:HA	1.74	0.88
2:A2:976:LEU:HB2	6:D1:496:LEU:HD23	0.89	0.88
2:A2:1143:LEU:CB	3:A5:132:ASP:N	2.37	0.88
2:A2:1149:THR:H	3:A5:172:PRO:CB	1.86	0.88
2:A4:988:ARG:NH2	6:D3:499:LEU:CA	2.23	0.88
3:A5:1395:LYS:HE3	28:Z2:868:GLN:O	1.72	0.88
3:A6:232:LEU:CD2	5:C4:740:ARG:N	2.36	0.88
11:I1:895:ARG:HE	17:O1:233:THR:CB	1.83	0.88
11:I1:1113:LEU:CB	16:N1:435:ALA:HB2	2.04	0.88
11:I2:1020:ALA:CA	16:N3:410:MET:H	1.76	0.88
11:I5:536:GLU:N	25:W2:8:HIS:N	2.22	0.88
21:S3:138:VAL:HG11	21:S3:170:THR:HG22	1.53	0.88
28:Z1:555:LYS:CG	30:b1:213:ASP:H	1.87	0.88
28:Z3:410:ASN:HB2	30:b3:251:ILE:HG13	1.56	0.88
2:A2:827:ILE:HA	2:A2:860:GLU:CA	1.97	0.88
1:A3:1056:PHE:CD2	6:D3:805:GLY:O	2.26	0.88
2:A4:235:TYR:CE1	4:B4:347:LEU:HD12	2.09	0.88
2:A4:779:ASP:O	6:D3:674:TYR:CA	2.23	0.88
2:A4:1135:ARG:HG2	3:A6:160:ILE:HD12	1.56	0.88
2:A4:1158:ALA:HB2	3:A6:133:LYS:HE3	1.56	0.88
3:A5:155:TYR:CZ	5:C2:740:ARG:CG	2.36	0.88
3:A5:190:ALA:N	5:C2:745:SER:OG	2.06	0.88
3:A5:1356:SER:O	28:Z2:879:PHE:N	1.75	0.88
3:A5:1365:VAL:HG22	28:Z2:838:GLN:C	1.97	0.88
3:A5:1395:LYS:CB	28:Z2:870:ILE:HA	2.02	0.88
3:A6:1390:LEU:HB3	28:Z4:867:LYS:HA	1.56	0.88
8:F1:1205:TRP:CD2	17:O2:254:ARG:HD2	2.07	0.88
11:I1:976:ARG:HH22	15:M1:622:VAL:CG2	1.80	0.88
11:I2:887:GLN:CA	17:O3:242:ARG:HB3	1.92	0.88
11:I2:976:ARG:CZ	20:R3:147:LEU:N	2.30	0.88
11:I2:1039:ALA:HB2	20:R3:170:LEU:HG	1.02	0.88
21:S4:138:VAL:HG11	21:S4:170:THR:HG22	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:523:ASP:OD2	30:b1:239:THR:CB	2.22	0.88
28:Z4:537:THR:HG22	28:Z4:743:ASN:HA	1.54	0.88
2:A4:866:SER:O	6:D3:598:ILE:CG1	2.22	0.87
3:A5:1312:ARG:NE	28:Z2:832:PHE:O	2.06	0.87
3:A6:1411:ARG:HH11	28:Z4:968:ARG:CB	1.86	0.87
11:I1:960:SER:CB	16:N1:395:GLU:CD	2.46	0.87
11:I1:965:ALA:HB3	20:R1:165:SER:H	1.35	0.87
11:I1:1108:PRO:CG	16:N1:443:GLU:CA	2.30	0.87
11:I2:958:THR:HA	20:R3:168:LEU:CD2	2.03	0.87
11:I2:995:SER:N	17:O3:271:GLU:HB2	1.69	0.87
17:O4:110:LEU:HD23	18:P4:321:ILE:CB	2.02	0.87
28:Z1:530:LYS:CB	30:b1:204:GLU:OE1	2.22	0.87
28:Z1:534:ASP:HB2	30:b1:183:LEU:H	0.71	0.87
28:Z2:528:ILE:O	30:b2:184:SER:HB3	0.85	0.87
28:Z3:411:LEU:H	30:b3:251:ILE:HD11	1.38	0.87
2:A2:865:ALA:C	6:D1:605:THR:HA	1.97	0.87
1:A3:1048:ARG:O	6:D3:816:VAL:HG22	1.70	0.87
2:A4:1121:LEU:N	3:A6:136:GLU:OE1	1.89	0.87
3:A6:1363:ASP:CG	28:Z4:869:HIS:HA	1.99	0.87
11:I2:797:LEU:HD22	17:O3:245:GLU:HG2	1.50	0.87
11:I2:1064:LYS:C	17:O3:274:GLY:HA2	1.98	0.87
11:I3:1275:SER:CA	26:X1:508:LEU:CG	2.38	0.87
11:I5:1276:GLN:HB3	26:X2:518:ASP:O	1.73	0.87
22:T3:885:ARG:HH11	22:T3:885:ARG:HG3	1.39	0.87
28:Z1:401:THR:HB	30:b1:253:SER:CA	2.02	0.87
28:Z2:557:CYS:HB2	30:b2:210:ARG:HH11	1.38	0.87
1:A3:1204:TRP:CG	2:A4:731:ILE:CG2	2.46	0.87
3:A5:233:THR:HG23	5:C2:737:LYS:HB3	0.88	0.87
3:A6:1412:MSE:HG2	28:Z4:965:TYR:CA	2.05	0.87
6:D7:537:ARG:NH2	11:I3:173:ARG:HH22	1.72	0.87
11:I1:951:LYS:HB3	17:O1:253:LEU:HD11	1.53	0.87
11:I1:1036:PRO:O	15:M1:623:LEU:C	2.16	0.87
11:I1:1055:GLU:CG	17:O1:280:GLU:CG	2.52	0.87
11:I1:1667:GLN:CD	11:I2:1665:LEU:CB	2.46	0.87
11:I1:1667:GLN:CB	11:I2:1661:GLY:O	2.22	0.87
11:I2:900:ARG:HG3	17:O3:232:LYS:NZ	1.87	0.87
11:I2:931:VAL:O	15:M3:605:THR:CG2	2.15	0.87
11:I2:957:SER:HB2	20:R3:168:LEU:C	1.98	0.87
11:I2:966:TRP:N	20:R3:154:ALA:HB2	1.81	0.87
11:I2:1046:HIS:C	17:O3:284:LYS:HG3	1.98	0.87
28:Z2:523:ASP:OD2	30:b2:239:THR:CB	2.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:411:LEU:H	30:b4:251:ILE:HD11	1.38	0.87
28:Z4:560:ASN:HD22	30:b4:211:ILE:HG21	1.38	0.87
2:A2:974:PRO:CD	6:D1:205:LEU:CG	2.53	0.87
2:A2:980:ARG:HG2	6:D1:473:GLU:HG2	0.87	0.87
2:A2:1164:TYR:HA	4:B5:342:ARG:CD	2.04	0.87
1:A3:1201:ARG:NH2	2:A4:734:LEU:O	1.79	0.87
2:A4:879:LEU:CB	6:D3:564:ASN:HB2	2.04	0.87
2:A4:1155:ASN:CA	3:A6:175:GLU:C	2.40	0.87
3:A6:1358:LEU:CD2	28:Z4:878:HIS:H	1.88	0.87
9:G1:262:SER:H	17:O2:256:TYR:HE1	1.18	0.87
11:I1:880:MET:HB3	17:O1:250:LEU:CB	1.89	0.87
11:I1:947:LEU:CD1	16:N1:411:GLN:CG	2.38	0.87
11:I1:947:LEU:HD13	17:O1:256:TYR:HH	1.07	0.87
11:I1:966:TRP:NE1	20:R1:165:SER:O	2.07	0.87
11:I1:1013:GLU:O	16:N1:411:GLN:O	1.92	0.87
11:I1:1017:VAL:CA	16:N1:411:GLN:HG3	2.04	0.87
11:I1:1104:LEU:HD22	16:N1:433:GLU:HG3	1.56	0.87
11:I1:1108:PRO:HG3	16:N1:443:GLU:HB3	0.89	0.87
11:I2:950:LEU:HD23	15:M3:606:LEU:HG	1.55	0.87
11:I2:967:SER:CB	15:M3:625:GLY:HA3	1.89	0.87
11:I2:1030:ARG:CA	20:R3:173:LEU:C	2.30	0.87
11:I2:1045:PHE:HZ	16:N3:431:VAL:O	1.57	0.87
11:I2:1104:LEU:HG	16:N3:433:GLU:CD	1.86	0.87
11:I4:1276:GLN:O	26:X3:519:ILE:HA	1.75	0.87
17:O3:158:GLU:O	18:P3:315:GLU:OE2	1.93	0.87
22:T1:885:ARG:HH11	22:T1:885:ARG:HG3	1.39	0.87
28:Z1:535:ILE:CG1	30:b1:182:PRO:HB2	1.90	0.87
28:Z1:561:GLN:HB2	30:b1:236:THR:H	1.09	0.87
2:A2:781:ARG:HH22	6:D1:679:ILE:HD12	1.36	0.87
2:A2:827:ILE:HD13	2:A2:859:GLN:N	1.65	0.87
2:A2:874:VAL:HG13	6:D1:611:LYS:HB2	1.56	0.87
2:A4:975:GLU:O	6:D3:501:LEU:CB	2.23	0.87
2:A4:1131:ILE:HD13	3:A6:160:ILE:HB	1.55	0.87
3:A6:158:ALA:O	5:C4:743:LEU:HD12	1.75	0.87
3:A6:1360:GLY:N	28:Z4:885:VAL:CB	2.37	0.87
3:A6:1385:GLU:CA	28:Z4:863:ASP:N	2.17	0.87
8:F1:1137:GLN:NE2	17:O2:249:ARG:CA	2.37	0.87
8:F1:1264:ARG:HG2	17:O2:263:GLN:O	1.74	0.87
9:G2:256:GLN:HG2	17:O4:262:ASP:HB2	1.54	0.87
11:I1:957:SER:O	20:R1:168:LEU:CG	2.21	0.87
11:I1:1109:LEU:H	16:N1:441:PHE:H	0.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1607:GLN:OE1	11:I2:1739:GLU:N	2.07	0.87
11:I3:1273:GLU:CG	26:X1:535:ALA:HB2	1.99	0.87
28:Z1:401:THR:O	30:b1:254:SER:OG	1.93	0.87
28:Z1:560:ASN:HD22	30:b1:211:ILE:HG21	1.38	0.87
28:Z2:560:ASN:HD22	30:b2:211:ILE:HG21	1.38	0.87
28:Z4:555:LYS:CG	30:b4:213:ASP:H	1.87	0.87
1:A1:834:GLU:HB2	6:D3:302:PRO:HB3	1.56	0.87
1:A1:1399:ARG:CG	2:A2:884:ARG:CG	2.11	0.87
2:A2:224:PRO:CD	6:D1:709:ARG:HH12	1.87	0.87
2:A2:864:ARG:HD3	6:D1:610:ASN:OD1	1.74	0.87
3:A5:1029:ILE:HG22	11:I5:71:GLU:H	1.19	0.87
3:A5:1031:TYR:HD1	11:I5:67:LYS:HZ3	0.88	0.87
3:A6:234:LEU:N	5:C4:737:LYS:CB	2.38	0.87
11:I1:846:ILE:CB	17:O1:247:TRP:CZ2	2.56	0.87
11:I1:915:ALA:HB2	15:M1:581:LEU:O	1.75	0.87
11:I1:951:LYS:HB3	17:O1:253:LEU:CD1	2.05	0.87
11:I1:1055:GLU:HA	17:O1:281:ALA:H	1.36	0.87
11:I1:1055:GLU:HG3	17:O1:277:GLU:C	2.00	0.87
11:I1:1070:LEU:H	16:N1:429:GLU:HB2	1.39	0.87
11:I1:1663:LYS:HD3	11:I2:1663:LYS:N	1.86	0.87
11:I2:997:SER:HB2	17:O3:270:THR:HG22	1.55	0.87
11:I2:1048:GLU:HB2	17:O3:284:LYS:CA	2.04	0.87
21:S3:1016:LYS:HE2	21:S3:1039:GLU:HG3	1.53	0.87
28:Z3:523:ASP:OD2	30:b3:239:THR:CB	2.23	0.87
28:Z4:531:LYS:CD	30:b4:182:PRO:C	2.48	0.87
1:A1:1220:PRO:O	2:A2:645:PHE:C	2.18	0.87
2:A2:1157:TYR:HA	3:A5:176:LEU:HD23	1.53	0.87
1:A3:1223:GLU:CD	2:A4:734:LEU:HD11	1.99	0.87
3:A5:994:VAL:O	11:I5:61:LYS:CD	2.23	0.87
3:A5:1395:LYS:HB2	28:Z2:870:ILE:CA	2.04	0.87
11:I1:945:LEU:HD11	17:O1:254:ARG:O	1.29	0.87
11:I1:951:LYS:HB3	17:O1:253:LEU:HD21	1.56	0.87
11:I1:1024:PHE:HB3	16:N1:406:HIS:ND1	1.89	0.87
11:I1:1664:PHE:CD2	11:I2:1668:HIS:N	2.42	0.87
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG3	1.57	0.87
11:I2:841:PHE:HB3	15:M3:588:MET:HA	1.57	0.87
11:I2:948:ALA:HB3	17:O3:256:TYR:HB3	1.49	0.87
11:I2:963:LEU:CD2	20:R3:168:LEU:CD1	2.53	0.87
11:I2:978:LYS:HZ2	20:R3:155:GLU:N	1.47	0.87
11:I2:1110:SER:CB	16:N3:438:LEU:HG	2.03	0.87
11:I3:1267:LEU:HD22	26:X1:497:ARG:NH1	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P2:319:VAL:CG2	18:P3:278:ASN:ND2	2.38	0.87
21:S2:683:LEU:N	21:S2:684:THR:HA	1.90	0.87
27:Y1:41:ASP:CB	29:a1:231[B]:HIS:HE1	1.86	0.87
28:Z2:411:LEU:H	30:b2:251:ILE:HD11	1.38	0.87
28:Z2:555:LYS:CG	30:b2:213:ASP:H	1.87	0.87
1:A1:1201:ARG:HD2	2:A2:734:LEU:CD2	2.05	0.87
2:A2:1148:ARG:CD	3:A5:172:PRO:HA	2.05	0.87
1:A3:1052:THR:CG2	6:D3:816:VAL:CG2	2.49	0.87
2:A4:200:VAL:CG2	4:B4:351:GLU:O	2.22	0.87
2:A4:826:ASN:ND2	6:D3:633:LYS:O	2.07	0.87
2:A4:1129:PRO:HB3	3:A6:142:GLU:OE2	1.64	0.87
3:A5:1027:HIS:CG	11:I5:65:LYS:O	2.27	0.87
3:A5:1029:ILE:H	11:I5:68:ILE:CA	1.88	0.87
3:A6:1361:ARG:NH2	28:Z4:879:PHE:CB	2.38	0.87
6:D3:743:HIS:CD2	11:I2:1528:ARG:CD	2.58	0.87
11:I1:833:PHE:CE2	17:O1:238:ALA:O	2.27	0.87
11:I1:898:VAL:HG21	17:O1:237:PRO:HD3	1.56	0.87
11:I1:942:HIS:N	17:O1:259:ASP:C	2.31	0.87
11:I1:1038:ILE:O	15:M1:620:VAL:CG2	2.21	0.87
11:I1:1056:PRO:CA	17:O1:278:GLU:HG2	1.96	0.87
11:I2:1051:LYS:HE2	17:O3:289:ASP:OD1	1.71	0.87
11:I3:1277:LEU:CD1	26:X1:511:TYR:HE2	1.84	0.87
22:T4:885:ARG:HH11	22:T4:885:ARG:HG3	1.39	0.87
27:Y2:41:ASP:CB	29:a2:231[B]:HIS:HE1	1.86	0.87
27:Y3:41:ASP:CB	29:a3:231[B]:HIS:HE1	1.86	0.87
1:A1:870:HIS:HD2	6:D3:280:GLN:HA	1.36	0.87
2:A2:979:GLY:N	6:D1:472:PHE:HB3	1.90	0.87
2:A4:871:ASN:O	6:D3:568:ARG:N	1.96	0.87
2:A4:989:MSE:CE	6:D3:240:ASP:OD2	2.21	0.87
2:A4:1134:GLU:N	3:A6:145:THR:CA	2.38	0.87
2:A4:1134:GLU:HB2	3:A6:146:LYS:CA	1.72	0.87
3:A5:1365:VAL:CG2	28:Z2:838:GLN:C	2.47	0.87
3:A6:153:ILE:CD1	5:C4:739:MET:HB2	2.05	0.87
3:A6:230:LYS:CB	5:C4:739:MET:HE2	1.99	0.87
3:A6:1351:MSE:SE	28:Z4:919:PHE:CA	2.73	0.87
8:F1:1265:GLN:C	17:O2:265:ASN:CB	2.47	0.87
9:G2:256:GLN:HB3	17:O4:261:LYS:HB3	1.57	0.87
11:I2:896:PRO:HB3	17:O3:233:THR:HA	1.56	0.87
11:I2:1040:HIS:HE1	16:N3:437:VAL:HG11	1.38	0.87
11:I2:1046:HIS:O	17:O3:284:LYS:HG3	1.73	0.87
11:I2:1052:LEU:CD1	16:N3:438:LEU:HD21	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1267:LEU:HB3	26:X1:497:ARG:HH22	0.73	0.87
11:I4:1277:LEU:HB3	26:X3:517:ASP:O	1.74	0.87
17:O4:107:THR:HG21	18:P4:321:ILE:CD1	2.04	0.87
28:Z3:410:ASN:HD22	30:b3:252:ALA:N	1.73	0.87
28:Z4:555:LYS:CG	30:b4:233:TRP:HE3	1.86	0.87
28:Z4:556:ASN:ND2	30:b4:166:LEU:HD23	1.90	0.87
1:A1:1222:ALA:O	2:A2:731:ILE:HD11	1.75	0.86
2:A2:200:VAL:CG2	4:B2:351:GLU:O	2.22	0.86
2:A4:874:VAL:CG2	6:D3:568:ARG:O	2.21	0.86
2:A4:985:ALA:CB	6:D3:500:LYS:H	1.84	0.86
2:A4:986:THR:HG22	6:D3:504:LYS:CD	2.03	0.86
3:A6:1323:VAL:HG12	28:Z4:912:ASP:H	1.34	0.86
3:A6:1377:ARG:NE	28:Z4:815:PHE:CB	2.38	0.86
3:A6:1395:LYS:HD3	28:Z4:893:HIS:H	1.40	0.86
6:D7:531:LEU:HA	11:I3:181:GLN:HB3	1.56	0.86
8:F1:1262:HIS:ND1	17:O2:259:ASP:N	2.22	0.86
9:G1:263:MET:HB3	17:O2:260:LEU:HB2	1.56	0.86
11:I1:880:MET:HG2	17:O1:247:TRP:CA	1.95	0.86
11:I1:898:VAL:CG2	17:O1:237:PRO:HD3	2.05	0.86
11:I1:1038:ILE:C	20:R1:169:GLY:HA3	2.00	0.86
11:I1:1672:VAL:HG22	11:I2:1611:PHE:HB3	1.57	0.86
11:I2:874:LEU:HG	17:O3:256:TYR:N	1.90	0.86
11:I2:956:ILE:O	20:R3:166:LEU:CG	2.23	0.86
11:I2:987:GLY:N	15:M3:613:ASP:HB3	1.89	0.86
11:I2:1186:PRO:HG3	17:O4:225:GLN:CD	1.97	0.86
28:Z1:410:ASN:HD22	30:b1:252:ALA:N	1.73	0.86
28:Z1:411:LEU:HD21	30:b1:251:ILE:HG23	1.57	0.86
28:Z2:523:ASP:HB3	30:b2:238:ASN:HA	1.54	0.86
2:A2:989:MSE:HE1	6:D1:241:ALA:H	1.33	0.86
3:A5:1026:PRO:HB2	11:I5:73:TYR:CE1	2.03	0.86
3:A5:1395:LYS:CG	28:Z2:870:ILE:O	2.23	0.86
11:I1:920:PHE:CB	17:O1:243:LEU:HD22	2.05	0.86
11:I1:1024:PHE:O	20:R1:172:ASP:CG	2.18	0.86
11:I1:1026:TYR:CE1	20:R1:175:GLN:CD	2.53	0.86
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG21	1.28	0.86
11:I1:1738:TYR:N	11:I2:1607:GLN:OE1	2.08	0.86
11:I2:841:PHE:CE1	15:M3:588:MET:HG3	2.09	0.86
11:I2:887:GLN:CD	16:N3:393:ILE:CA	2.21	0.86
11:I2:1052:LEU:CD2	16:N3:434:LEU:CD1	2.52	0.86
17:O3:101:ASN:OD1	18:P3:322:LYS:CG	2.22	0.86
17:O3:154:ARG:CD	18:P3:324:LEU:CD1	2.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:411:LEU:H	30:b1:251:ILE:HD11	1.38	0.86
28:Z3:534:ASP:HB2	30:b3:183:LEU:H	0.71	0.86
28:Z4:524:VAL:H	30:b4:238:ASN:HB2	0.71	0.86
1:A1:875:LEU:HD12	6:D3:276:GLY:C	2.00	0.86
2:A2:826:ASN:ND2	6:D1:633:LYS:HB3	1.90	0.86
2:A2:980:ARG:CG	6:D1:526:LEU:H	1.86	0.86
2:A4:235:TYR:CE1	4:B4:347:LEU:CB	2.59	0.86
2:A4:780:GLU:N	6:D3:677:GLN:O	2.02	0.86
2:A4:869:ALA:CB	6:D3:573:LEU:HD23	2.04	0.86
11:I1:884:LEU:CD1	16:N1:396:ILE:HG23	2.05	0.86
11:I1:947:LEU:CD1	17:O1:256:TYR:HE2	1.87	0.86
11:I1:958:THR:H	16:N1:399:HIS:CG	1.93	0.86
11:I1:983:LEU:N	15:M1:621:ARG:NH2	2.23	0.86
11:I1:984:GLU:HG3	15:M1:617:THR:CG2	2.05	0.86
1:A1:1197:ALA:O	2:A2:728:LYS:HG3	1.74	0.86
2:A2:979:GLY:H	6:D1:496:LEU:CD1	1.88	0.86
3:A5:150:PHE:HE2	5:C2:742:ASP:HB3	1.40	0.86
3:A6:1387:ILE:CG2	28:Z4:867:LYS:CB	2.53	0.86
3:A6:1395:LYS:HD3	28:Z4:893:HIS:N	1.90	0.86
8:F1:1203:TRP:HH2	17:O2:248:SER:HA	1.05	0.86
11:I1:1113:LEU:CB	16:N1:435:ALA:CB	2.52	0.86
11:I2:1040:HIS:C	15:M3:616:LEU:HD12	1.75	0.86
28:Z2:531:LYS:CD	30:b2:182:PRO:C	2.48	0.86
28:Z4:531:LYS:NZ	30:b4:166:LEU:CB	2.39	0.86
2:A2:227:SER:OG	6:D1:711:PHE:HD2	1.58	0.86
2:A2:870:HIS:HD2	6:D1:551:PHE:CB	1.77	0.86
2:A2:874:VAL:HB	6:D1:571:SER:HG	1.36	0.86
2:A2:980:ARG:CB	6:D1:526:LEU:HB3	2.06	0.86
1:A3:1227:PRO:O	2:A4:728:LYS:NZ	2.07	0.86
2:A4:823:VAL:C	2:A4:856:PHE:CE1	2.49	0.86
2:A4:865:ALA:CA	6:D3:567:LEU:CD2	2.49	0.86
2:A4:985:ALA:HB2	6:D3:496:LEU:O	1.75	0.86
3:A5:150:PHE:HE2	5:C2:742:ASP:CB	1.87	0.86
11:I1:966:TRP:HE3	20:R1:167:GLN:HB3	1.37	0.86
11:I1:1668:HIS:N	11:I2:1664:PHE:CD2	2.43	0.86
11:I2:968:PRO:C	20:R3:149:ARG:HH12	1.83	0.86
11:I2:977:ASN:H	20:R3:149:ARG:N	1.71	0.86
11:I2:1054:ILE:N	17:O3:281:ALA:N	2.08	0.86
28:Z2:401:THR:O	30:b2:254:SER:OG	1.93	0.86
28:Z2:531:LYS:CD	30:b2:183:LEU:CA	2.36	0.86
2:A2:1127:ALA:CA	3:A5:140:ALA:HB2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1227:PRO:O	2:A4:728:LYS:HE3	1.07	0.86
2:A4:988:ARG:CD	6:D3:500:LYS:HG3	2.04	0.86
3:A5:1026:PRO:HD2	11:I5:66:LEU:HD23	0.89	0.86
3:A5:1098:ARG:HD2	11:I5:29:GLN:CD	2.00	0.86
3:A6:230:LYS:CB	5:C4:739:MET:HE1	2.00	0.86
9:G1:257:THR:HA	17:O2:253:LEU:H	1.08	0.86
11:I1:930:LEU:HB3	15:M1:597:LYS:O	1.10	0.86
11:I1:965:ALA:HB3	20:R1:164:PRO:C	2.00	0.86
11:I1:967:SER:HB3	15:M1:625:GLY:CA	1.91	0.86
11:I1:978:LYS:C	15:M1:621:ARG:HD3	2.01	0.86
11:I1:1020:ALA:HB1	16:N1:406:HIS:C	2.01	0.86
11:I2:951:LYS:CG	16:N3:404:GLU:HG3	2.04	0.86
17:O3:155:VAL:HG23	18:P3:321:ILE:CG1	2.05	0.86
17:O3:162:LYS:CB	18:P3:315:GLU:OE1	2.22	0.86
28:Z2:410:ASN:HD22	30:b2:252:ALA:N	1.73	0.86
28:Z3:555:LYS:CG	30:b3:233:TRP:HE3	1.86	0.86
28:Z3:557:CYS:HB2	30:b3:210:ARG:HH11	1.38	0.86
28:Z4:530:LYS:HB3	30:b4:204:GLU:CD	2.01	0.86
28:Z4:534:ASP:HB2	30:b4:183:LEU:H	0.71	0.86
2:A2:235:TYR:CE1	4:B2:347:LEU:HD12	2.09	0.86
2:A2:1127:ALA:O	3:A5:140:ALA:HB1	1.73	0.86
2:A2:1142:PHE:HE1	3:A5:567:VAL:HG23	1.36	0.86
2:A4:861:GLN:HA	6:D3:607:PRO:CD	2.04	0.86
2:A4:1151:THR:CG2	5:C4:734:VAL:CA	2.54	0.86
3:A5:164:LEU:O	5:C2:744:PHE:CE1	2.28	0.86
8:F1:1261:TYR:O	17:O2:263:GLN:N	2.08	0.86
9:G1:267:GLY:CA	16:N2:414:ALA:C	2.48	0.86
11:I1:962:ILE:HD12	20:R1:164:PRO:O	1.76	0.86
11:I1:1048:GLU:CG	17:O1:284:LYS:O	2.23	0.86
11:I2:874:LEU:HA	17:O3:255:GLY:N	1.90	0.86
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD13	1.73	0.86
11:I2:1037:THR:HB	20:R3:173:LEU:HD22	1.55	0.86
11:I2:1051:LYS:HE3	17:O3:289:ASP:H	1.40	0.86
28:Z3:531:LYS:CD	30:b3:182:PRO:C	2.48	0.86
28:Z4:402:GLY:HA3	30:b4:254:SER:HG	1.11	0.86
2:A2:868:GLN:HE21	6:D1:609:ILE:N	1.73	0.86
2:A2:986:THR:HG23	6:D1:504:LYS:HD3	1.51	0.86
2:A2:1139:ILE:CG2	3:A5:134:VAL:H	1.81	0.86
2:A2:1148:ARG:NH2	3:A5:171:HIS:C	2.34	0.86
1:A3:1021:LEU:HD13	6:D3:816:VAL:C	2.01	0.86
2:A4:868:GLN:CG	6:D3:608:ILE:HG21	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CB	2.05	0.86
3:A6:1304:GLU:O	28:Z4:833:ASP:O	1.94	0.86
11:I1:833:PHE:CZ	17:O1:241:SER:CB	2.46	0.86
11:I1:983:LEU:N	15:M1:621:ARG:CZ	2.37	0.86
11:I1:1049:LEU:CB	17:O1:291:ASP:HB2	1.91	0.86
11:I1:1673:VAL:CA	11:I2:1611:PHE:C	2.49	0.86
11:I2:898:VAL:HG23	17:O3:237:PRO:HD3	0.90	0.86
11:I2:935:GLY:O	17:O3:261:LYS:NZ	0.71	0.86
11:I2:962:ILE:HB	15:M3:596:ILE:CG2	2.05	0.86
11:I2:1029:LEU:HA	20:R3:173:LEU:HB3	1.58	0.86
17:O4:109:PRO:HD2	18:P4:318:PRO:HG3	1.57	0.86
28:Z3:524:VAL:H	30:b3:238:ASN:HB2	0.71	0.86
28:Z4:554:PHE:CD1	30:b4:232:PRO:HB2	2.10	0.86
29:a4:252[B]:MET:HG2	29:a4:253:PRO:HD2	1.54	0.86
1:A1:1226:LEU:N	2:A2:725:GLU:HG3	1.90	0.86
1:A3:1202:GLU:C	2:A4:732:GLN:CA	2.48	0.86
2:A4:868:GLN:OE1	6:D3:570:VAL:HG12	1.76	0.86
2:A4:908:LEU:HA	6:D3:552:TYR:HE1	0.73	0.86
2:A4:974:PRO:CA	6:D3:499:LEU:HD12	2.03	0.86
2:A4:1130:ARG:HA	3:A6:161[A]:ASP:OD2	1.75	0.86
2:A4:1160:GLN:OE1	3:A6:179:TYR:N	2.08	0.86
3:A5:230:LYS:N	5:C2:739:MET:HE3	1.82	0.86
11:I1:941:GLY:H	17:O1:260:LEU:C	1.84	0.86
11:I2:925:LEU:CD1	20:R3:156:GLY:HA2	2.06	0.86
11:I2:950:LEU:HD22	16:N3:406:HIS:CD2	2.10	0.86
11:I2:980:ILE:HB	15:M3:618:GLN:HA	0.89	0.86
11:I2:1030:ARG:O	20:R3:173:LEU:O	1.93	0.86
11:I2:1051:LYS:CB	17:O3:284:LYS:O	2.24	0.86
17:O3:148:ARG:CZ	18:P3:325:ILE:HG21	2.05	0.86
28:Z1:530:LYS:HB3	30:b1:204:GLU:CD	2.01	0.86
28:Z1:531:LYS:CD	30:b1:182:PRO:C	2.48	0.86
28:Z4:557:CYS:HB3	30:b4:210:ARG:NH1	1.51	0.86
28:Z4:557:CYS:HB2	30:b4:210:ARG:HH11	1.38	0.86
1:A1:834:GLU:C	6:D3:302:PRO:CB	2.47	0.86
1:A1:1226:LEU:CA	2:A2:728:LYS:HD3	1.90	0.86
2:A2:979:GLY:C	6:D1:473:GLU:OE2	2.19	0.86
2:A4:988:ARG:CG	6:D3:500:LYS:CG	2.46	0.86
11:I1:874:LEU:HD23	17:O1:252:VAL:CA	2.06	0.86
11:I1:1038:ILE:HD11	20:R1:167:GLN:CD	2.01	0.86
11:I1:1108:PRO:HB3	16:N1:443:GLU:CB	2.06	0.86
11:I1:1603:ARG:HB3	11:I2:1738:TYR:O	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1664:PHE:O	11:I2:1664:PHE:O	1.92	0.86
11:I2:898:VAL:CG2	17:O3:236:ASP:C	2.49	0.86
11:I2:942:HIS:N	17:O3:259:ASP:O	2.08	0.86
21:S4:1120:PRO:HD3	21:S4:1155:GLN:HE22	1.41	0.86
22:T2:885:ARG:HH11	22:T2:885:ARG:HG3	1.39	0.86
28:Z1:531:LYS:NZ	30:b1:166:LEU:CB	2.39	0.86
28:Z3:401:THR:O	30:b3:254:SER:OG	1.93	0.86
28:Z3:561:GLN:HG3	30:b3:236:THR:HA	1.58	0.86
28:Z4:523:ASP:OD2	30:b4:239:THR:CB	2.23	0.86
2:A2:874:VAL:HG22	6:D1:611:LYS:CG	2.06	0.85
2:A2:980:ARG:HB2	6:D1:526:LEU:HB3	1.56	0.85
1:A3:1098:ARG:NH2	11:I2:1421:ARG:NH2	2.23	0.85
2:A4:880:ALA:CB	6:D3:558:LYS:HE3	2.04	0.85
2:A4:1094:ILE:HG12	6:D4:759:GLN:NE2	1.90	0.85
3:A6:1362:ALA:HB2	28:Z4:874:ASN:H	1.39	0.85
3:A6:1414:PHE:N	28:Z4:964:LEU:CA	2.29	0.85
5:C1:732:LYS:HE2	11:I1:1228:GLU:CB	2.04	0.85
8:F1:1202:TYR:HB3	17:O2:252:VAL:HG22	1.56	0.85
11:I1:962:ILE:HD12	20:R1:164:PRO:C	2.01	0.85
11:I1:1609:GLY:CA	12:J2:295:TYR:CE1	2.58	0.85
11:I2:936:LYS:N	15:M3:609:GLY:HA3	1.91	0.85
11:I2:966:TRP:NE1	20:R3:154:ALA:O	2.09	0.85
21:S1:683:LEU:N	21:S1:684:THR:HA	1.90	0.85
28:Z1:555:LYS:HB3	30:b1:212:PHE:CA	2.05	0.85
1:A1:870:HIS:ND1	6:D3:279:HIS:HE1	1.71	0.85
2:A2:200:VAL:HG21	4:B2:351:GLU:O	1.76	0.85
2:A2:1128:ASP:H	3:A5:137:HIS:CA	1.88	0.85
2:A4:870:HIS:O	6:D3:551:PHE:CG	2.29	0.85
2:A4:985:ALA:HB1	6:D3:500:LYS:HA	1.57	0.85
2:A4:989:MSE:HE1	6:D3:240:ASP:OD2	1.76	0.85
2:A4:1098:ARG:NH2	6:D4:709:ARG:HH22	1.74	0.85
3:A6:1363:ASP:HA	28:Z4:868:GLN:C	2.00	0.85
3:A6:1367:THR:HG22	28:Z4:848:SER:O	1.76	0.85
3:A6:1412:MSE:HE2	28:Z4:965:TYR:CB	2.04	0.85
9:G2:256:GLN:HG2	17:O4:262:ASP:CB	2.06	0.85
9:G2:263:MET:HE1	17:O4:263:GLN:OE1	1.74	0.85
11:I1:965:ALA:N	20:R1:165:SER:HB3	1.90	0.85
11:I1:1026:TYR:CD1	20:R1:175:GLN:NE2	2.44	0.85
11:I2:900:ARG:CG	17:O3:232:LYS:HD3	2.06	0.85
11:I2:1041:GLN:NE2	15:M3:614:ASP:O	2.09	0.85
11:I2:1048:GLU:N	17:O3:287:LEU:HD22	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:715:GLY:N	29:a2:40[A]:GLU:HG2	1.91	0.85
21:S3:683:LEU:N	21:S3:684:THR:HA	1.90	0.85
28:Z2:556:ASN:ND2	30:b2:166:LEU:HD23	1.90	0.85
28:Z3:410:ASN:CB	30:b3:251:ILE:CG1	2.36	0.85
28:Z4:410:ASN:HD22	30:b4:252:ALA:N	1.73	0.85
28:Z4:535:ILE:HG12	30:b4:182:PRO:HG3	1.58	0.85
1:A1:874:VAL:CB	6:D3:276:GLY:O	2.23	0.85
2:A2:864:ARG:C	6:D1:607:PRO:HD2	2.02	0.85
2:A2:980:ARG:HE	6:D1:525:ARG:HB3	1.41	0.85
1:A3:1332:ARG:HG3	6:D3:636:ASP:CB	2.07	0.85
3:A5:1381:ALA:C	28:Z2:813:CYS:CB	2.44	0.85
3:A6:1310:ARG:HG2	28:Z4:826:TYR:CB	2.05	0.85
3:A6:1410:ALA:HB3	26:X4:743:PHE:N	1.89	0.85
9:G1:257:THR:HB	17:O2:250:LEU:HA	1.56	0.85
11:I1:966:TRP:HZ3	20:R1:167:GLN:CG	1.60	0.85
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD12	1.56	0.85
11:I2:955:LYS:CA	16:N3:399:HIS:O	2.24	0.85
11:I2:978:LYS:NZ	20:R3:155:GLU:CA	2.35	0.85
11:I2:1030:ARG:N	20:R3:171:ALA:O	2.08	0.85
11:I2:1031:ALA:O	20:R3:173:LEU:HA	1.73	0.85
11:I2:1068:HIS:ND1	16:N3:428:ASP:HA	1.90	0.85
11:I2:1109:LEU:CG	17:O3:290:TYR:HE2	1.83	0.85
11:I3:1276:GLN:CD	26:X1:535:ALA:HA	2.01	0.85
28:Z2:524:VAL:H	30:b2:238:ASN:HB2	0.71	0.85
28:Z3:539:GLU:CB	30:b3:165:THR:N	2.39	0.85
28:Z4:523:ASP:HB3	30:b4:238:ASN:HA	1.54	0.85
1:A1:1201:ARG:HH12	2:A2:734:LEU:HG	1.36	0.85
2:A2:227:SER:CB	6:D1:712:ASP:N	2.40	0.85
2:A2:907:SER:HB3	6:D1:600:LYS:O	1.76	0.85
2:A2:1142:PHE:CE2	3:A5:128:HIS:O	2.26	0.85
2:A2:1157:TYR:HA	3:A5:176:LEU:CG	2.07	0.85
2:A4:173:ASN:HD22	6:D3:762:ARG:HB3	1.42	0.85
2:A4:867:GLU:CG	6:D3:605:THR:HB	2.02	0.85
2:A4:986:THR:HG22	6:D3:504:LYS:CG	1.99	0.85
2:A4:1142:PHE:HB2	3:A6:130:ILE:CG2	1.95	0.85
3:A5:178:GLY:HA2	5:C2:743:LEU:CD2	2.06	0.85
3:A6:189:VAL:HG23	5:C4:745:SER:OG	1.76	0.85
8:F1:1262:HIS:CE1	17:O2:259:ASP:N	2.44	0.85
9:G1:255:LEU:HD12	17:O2:257:ALA:CB	2.03	0.85
11:I1:942:HIS:O	17:O1:260:LEU:HB2	1.77	0.85
11:I1:957:SER:HB2	20:R1:168:LEU:HG	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1041:GLN:NE2	15:M3:614:ASP:OD2	2.09	0.85
21:S3:1097:LYS:HZ3	21:S3:1101:PHE:HE1	1.23	0.85
28:Z3:535:ILE:CG1	30:b3:182:PRO:HB3	1.97	0.85
1:A1:1399:ARG:NH2	2:A2:888:GLN:HB2	1.91	0.85
2:A2:1143:LEU:CG	3:A5:131:PRO:CB	2.45	0.85
1:A3:1197:ALA:HB3	2:A4:728:LYS:HZ3	1.40	0.85
2:A4:827:ILE:CD1	2:A4:859:GLN:HB2	2.07	0.85
2:A4:1122:LEU:HB2	3:A6:132:ASP:HB3	1.56	0.85
3:A5:1094:ILE:O	11:I5:2:THR:O	1.90	0.85
3:A6:146:LYS:HD3	5:C4:746:PRO:CB	2.05	0.85
3:A6:1410:ALA:HB2	26:X4:744:MET:CA	2.05	0.85
8:F1:158:PRO:CG	11:I1:1207:PRO:N	2.39	0.85
9:G1:266:ASP:HA	16:N2:412:ASN:HA	1.58	0.85
11:I1:797:LEU:HB3	17:O1:245:GLU:CG	2.07	0.85
11:I1:1035:GLN:H	15:M1:627:LEU:CD2	1.89	0.85
11:I1:1739:GLU:C	11:I2:1604:ALA:HA	2.01	0.85
11:I2:979:ALA:CB	20:R3:167:GLN:NE2	2.40	0.85
17:O3:158:GLU:HG3	18:P3:316:LEU:CB	2.05	0.85
28:Z1:539:GLU:HB3	30:b1:165:THR:N	1.78	0.85
28:Z2:530:LYS:HB3	30:b2:204:GLU:CD	2.01	0.85
28:Z2:539:GLU:HB3	30:b2:165:THR:N	1.78	0.85
28:Z3:293:LEU:HD13	28:Z3:297:LEU:HD12	1.58	0.85
2:A2:973:GLU:OE1	6:D1:205:LEU:HD13	1.77	0.85
2:A2:989:MSE:HG3	6:D1:500:LYS:HE3	1.59	0.85
2:A2:1157:TYR:N	3:A5:174:PRO:C	2.28	0.85
3:A5:1369:ILE:HG23	28:Z2:831:LEU:N	1.79	0.85
3:A5:1395:LYS:HA	28:Z2:873:LEU:CA	2.07	0.85
3:A6:234:LEU:N	5:C4:737:LYS:HB2	1.92	0.85
11:I1:990:GLU:HG2	17:O1:275:LEU:CB	2.04	0.85
11:I1:1055:GLU:N	17:O1:279:ILE:N	2.18	0.85
11:I1:1610:VAL:CG1	11:I2:1669:ARG:NH2	2.38	0.85
11:I1:1677:LYS:HD2	11:I2:1635:HIS:HE1	1.42	0.85
11:I2:944:GLU:HA	17:O3:256:TYR:CZ	2.10	0.85
11:I2:976:ARG:NH2	20:R3:143:PHE:CD1	2.44	0.85
11:I2:977:ASN:ND2	15:M3:621:ARG:HB3	1.90	0.85
11:I2:981:VAL:N	20:R3:147:LEU:CD2	2.37	0.85
11:I3:1267:LEU:HD12	26:X1:529:TRP:CA	2.06	0.85
11:I3:1276:GLN:NE2	26:X1:538:ILE:HG12	1.88	0.85
21:S1:1097:LYS:HZ3	21:S1:1101:PHE:HE1	1.25	0.85
28:Z1:539:GLU:CB	30:b1:165:THR:N	2.39	0.85
1:A1:1224:PRO:HD3	2:A2:731:ILE:HG12	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1121:LEU:CA	3:A5:133:LYS:HD2	1.83	0.85
2:A4:779:ASP:O	6:D3:679:ILE:HB	1.73	0.85
2:A4:1098:ARG:HH21	6:D4:709:ARG:NH2	1.74	0.85
2:A4:1139:ILE:HA	3:A6:130:ILE:CG2	2.06	0.85
3:A5:1406:GLY:H	28:Z2:918:PHE:HA	1.31	0.85
3:A6:1361:ARG:N	28:Z4:872:TYR:O	2.10	0.85
3:A6:1391:ARG:CA	28:Z4:869:HIS:CB	2.55	0.85
8:F1:158:PRO:HG2	11:I1:1207:PRO:N	1.92	0.85
9:G1:254:ASN:OD1	15:M2:605:THR:OG1	1.94	0.85
11:I1:951:LYS:HD2	16:N1:400:LEU:O	1.75	0.85
11:I2:900:ARG:CA	17:O3:232:LYS:HE2	2.06	0.85
11:I2:1020:ALA:O	16:N3:406:HIS:CG	2.29	0.85
11:I2:1034:ASP:O	16:N3:441:PHE:CG	2.28	0.85
11:I2:1052:LEU:CG	17:O3:283:ALA:HB1	1.82	0.85
21:S2:1120:PRO:HD3	21:S2:1155:GLN:HE22	1.41	0.85
21:S4:683:LEU:N	21:S4:684:THR:HA	1.90	0.85
28:Z2:531:LYS:NZ	30:b2:166:LEU:CB	2.39	0.85
2:A2:235:TYR:CE1	4:B2:347:LEU:CB	2.59	0.85
2:A2:1124:ARG:C	3:A5:136:GLU:CB	2.49	0.85
1:A3:835:THR:HG22	6:D1:302:PRO:HG2	1.55	0.85
3:A5:1394:VAL:C	28:Z2:874:ASN:CA	2.41	0.85
3:A6:153:ILE:HB	5:C4:739:MET:SD	2.15	0.85
11:I1:842:ASN:HA	15:M1:587:GLU:HG3	1.56	0.85
11:I1:877:ILE:HG13	17:O1:251:ILE:C	1.95	0.85
11:I1:880:MET:CB	17:O1:247:TRP:HA	1.97	0.85
11:I1:918:SER:HB3	16:N1:389:PHE:CD1	2.09	0.85
11:I1:983:LEU:O	15:M1:617:THR:HG21	1.76	0.85
11:I2:956:ILE:C	20:R3:166:LEU:HD13	2.01	0.85
28:Z1:557:CYS:HB3	30:b1:210:ARG:HH11	1.01	0.85
28:Z4:401:THR:O	30:b4:254:SER:OG	1.93	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:HD13	1.56	0.85
2:A2:1137:ALA:HB3	3:A5:147:LEU:CD1	2.06	0.85
2:A4:861:GLN:C	6:D3:607:PRO:CD	2.43	0.85
2:A4:970:PHE:CE2	6:D3:498:GLU:OE2	2.28	0.85
3:A5:1029:ILE:CG2	11:I5:70:GLU:CA	2.55	0.85
3:A5:1098:ARG:CD	11:I5:29:GLN:CD	2.49	0.85
3:A6:155:TYR:HE1	5:C4:739:MET:CE	1.81	0.85
3:A6:1377:ARG:HE	28:Z4:815:PHE:CB	1.88	0.85
8:F1:1265:GLN:NE2	17:O2:257:ALA:O	2.07	0.85
9:G1:255:LEU:N	15:M2:602:MET:HA	1.79	0.85
11:I1:797:LEU:CD1	17:O1:245:GLU:HG2	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:899:LEU:CD2	17:O1:231:ASP:CG	2.49	0.85
11:I1:980:ILE:CD1	15:M1:622:VAL:H	1.81	0.85
11:I1:1021:ILE:CA	16:N1:406:HIS:ND1	2.38	0.85
11:I1:1032:THR:CA	20:R1:176:ARG:C	2.50	0.85
11:I1:1104:LEU:CB	16:N1:436:ALA:HB3	2.02	0.85
11:I2:938:CYS:C	17:O3:261:LYS:CA	2.47	0.85
11:I2:1053:GLY:C	17:O3:282:LYS:N	2.03	0.85
11:I2:1543:LEU:O	12:J1:300:ILE:HG23	1.77	0.85
11:I3:1275:SER:OG	26:X1:522:MET:CB	2.22	0.85
28:Z2:411:LEU:HD21	30:b2:251:ILE:HG23	1.56	0.85
28:Z2:534:ASP:HB2	30:b2:183:LEU:H	0.71	0.85
28:Z3:530:LYS:HB3	30:b3:204:GLU:CD	2.01	0.85
28:Z4:539:GLU:CB	30:b4:165:THR:N	2.39	0.85
1:A1:870:HIS:H	6:D3:280:GLN:HB2	1.38	0.85
2:A2:227:SER:CB	6:D1:711:PHE:HB3	2.06	0.85
1:A3:1223:GLU:CB	2:A4:724:LEU:HD22	1.97	0.85
2:A4:864:ARG:O	6:D3:608:ILE:HD13	1.77	0.85
2:A4:875:LEU:C	6:D3:564:ASN:HB3	1.97	0.85
3:A5:999:SER:O	11:I5:64:LYS:CE	2.24	0.85
3:A6:1363:ASP:CA	28:Z4:869:HIS:HA	2.05	0.85
6:D7:530:ARG:HG2	11:I3:181:GLN:CB	2.07	0.85
11:I1:881:ILE:H	17:O1:249:ARG:CB	1.80	0.85
11:I1:934:LEU:O	15:M1:606:LEU:CB	2.24	0.85
11:I1:951:LYS:C	16:N1:400:LEU:O	2.19	0.85
11:I1:957:SER:CB	20:R1:168:LEU:HG	2.07	0.85
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD21	1.58	0.85
11:I1:1607:GLN:CB	12:J2:298:PHE:CE1	2.57	0.85
11:I2:828:VAL:HG12	17:O3:237:PRO:CG	2.06	0.85
11:I2:840:LEU:HD22	17:O3:247:TRP:HB2	1.59	0.85
17:O2:112:GLY:HA3	18:P2:325:ILE:HG23	1.57	0.85
28:Z1:531:LYS:HB3	30:b1:182:PRO:O	1.76	0.85
28:Z2:539:GLU:CB	30:b2:165:THR:N	2.39	0.85
28:Z3:411:LEU:HD21	30:b3:251:ILE:HG23	1.56	0.85
28:Z4:524:VAL:CG1	30:b4:236:THR:C	2.50	0.85
1:A1:869:ALA:N	6:D3:280:GLN:HB2	1.92	0.84
1:A1:1054:SER:OG	6:D1:809:ALA:HB1	1.77	0.84
1:A1:1224:PRO:CG	2:A2:731:ILE:HB	2.06	0.84
1:A1:1399:ARG:CZ	2:A2:888:GLN:HG3	2.07	0.84
2:A2:876:ARG:CZ	6:D1:563:GLU:C	2.28	0.84
2:A2:1151:THR:CG2	5:C2:734:VAL:CA	2.54	0.84
1:A3:1197:ALA:HB3	2:A4:728:LYS:NZ	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1141:GLU:OE1	3:A6:563:THR:O	1.95	0.84
2:A4:1143:LEU:HD12	3:A6:134:VAL:N	1.92	0.84
3:A5:1367:THR:HB	28:Z2:845:ILE:H	1.37	0.84
11:I1:913:ALA:H	15:M1:584:GLN:CD	1.84	0.84
11:I1:948:ALA:HB3	17:O1:256:TYR:HB3	1.59	0.84
11:I1:1033:PRO:CB	20:R1:174:ARG:O	2.18	0.84
11:I1:1543:LEU:HD13	11:I2:1677:LYS:CE	2.08	0.84
11:I2:874:LEU:CB	17:O3:255:GLY:HA3	2.06	0.84
11:I2:1040:HIS:CB	15:M3:619:ILE:HG22	2.06	0.84
21:S2:1120:PRO:HD3	21:S2:1155:GLN:NE2	1.92	0.84
21:S3:1120:PRO:HD3	21:S3:1155:GLN:NE2	1.92	0.84
28:Z1:293:LEU:HD13	28:Z1:297:LEU:HD12	1.59	0.84
2:A2:1094:ILE:HG21	6:D2:759:GLN:HB3	1.57	0.84
2:A2:1151:THR:CG2	3:A5:171:HIS:NE2	2.24	0.84
1:A3:1224:PRO:CB	2:A4:731:ILE:CD1	1.92	0.84
2:A4:972:GLY:O	6:D3:206:VAL:HG12	1.78	0.84
3:A5:1313:LYS:CB	28:Z2:830:LEU:O	2.23	0.84
3:A6:1368:GLN:HB3	28:Z4:845:ILE:HA	1.58	0.84
11:I1:922:ASP:CB	15:M1:589:GLY:HA2	2.07	0.84
11:I1:990:GLU:HG2	17:O1:275:LEU:HB3	1.57	0.84
11:I1:1072:ASN:OD1	16:N1:429:GLU:OE1	1.93	0.84
11:I2:1048:GLU:HG3	17:O3:288:GLU:CG	2.07	0.84
11:I4:1272:TYR:HA	26:X3:525:ILE:CG1	2.07	0.84
28:Z1:524:VAL:H	30:b1:238:ASN:HB2	0.71	0.84
28:Z2:524:VAL:CG1	30:b2:236:THR:C	2.50	0.84
28:Z2:531:LYS:HZ3	30:b2:166:LEU:CB	1.90	0.84
28:Z4:531:LYS:HB3	30:b4:182:PRO:O	1.77	0.84
2:A2:867:GLU:HG3	6:D1:593:ARG:HH21	1.41	0.84
2:A2:876:ARG:CD	6:D1:558:LYS:CA	2.55	0.84
2:A4:1148:ARG:CZ	3:A6:174:PRO:HG2	2.06	0.84
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CA	2.08	0.84
3:A6:164:LEU:N	5:C4:744:PHE:CE2	2.44	0.84
11:I1:961:ARG:NH1	16:N1:389:PHE:HA	1.90	0.84
11:I1:981:VAL:CG2	20:R1:147:LEU:HG	2.05	0.84
11:I1:1066:LEU:HB3	16:N1:430:ARG:CG	2.07	0.84
11:I2:887:GLN:HE22	16:N3:396:ILE:HD12	1.43	0.84
11:I2:1049:LEU:HA	15:M3:622:VAL:CG1	2.07	0.84
17:O1:104:ASP:CG	18:P1:322:LYS:HE3	2.02	0.84
26:X3:159:ILE:HG12	26:X3:175:LEU:HB3	1.59	0.84
28:Z1:535:ILE:HG12	30:b1:182:PRO:HG3	1.58	0.84
28:Z3:534:ASP:N	30:b3:164:CYS:HB3	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:535:ILE:HG12	30:b3:182:PRO:HG3	1.58	0.84
28:Z3:555:LYS:HB3	30:b3:212:PHE:CA	2.05	0.84
2:A2:858:ALA:O	6:D1:606:LYS:HE3	1.78	0.84
2:A2:861:GLN:O	6:D1:607:PRO:HD3	0.66	0.84
2:A2:1128:ASP:N	3:A5:137:HIS:CA	2.41	0.84
1:A3:1332:ARG:CG	6:D3:636:ASP:HB3	2.08	0.84
2:A4:973:GLU:O	6:D3:499:LEU:HG	1.76	0.84
2:A4:1129:PRO:HB3	3:A6:142:GLU:CD	1.83	0.84
3:A5:233:THR:CG2	5:C2:737:LYS:CB	2.47	0.84
3:A5:1367:THR:HB	28:Z2:845:ILE:N	1.48	0.84
11:I1:947:LEU:HD13	17:O1:256:TYR:CE2	2.10	0.84
11:I1:984:GLU:CD	15:M1:615:PRO:HA	2.02	0.84
11:I1:984:GLU:CB	15:M1:618:GLN:NE2	2.39	0.84
11:I1:1114:VAL:N	16:N1:435:ALA:HB3	1.91	0.84
11:I3:1271:GLU:O	26:X1:525:ILE:CB	2.25	0.84
17:O3:102:LYS:CG	18:P3:322:LYS:CE	2.53	0.84
26:X1:159:ILE:HG12	26:X1:175:LEU:HB3	1.59	0.84
28:Z1:554:PHE:CD1	30:b1:232:PRO:HB2	2.10	0.84
28:Z1:557:CYS:HB2	30:b1:210:ARG:HH11	1.38	0.84
28:Z1:561:GLN:HG3	30:b1:236:THR:HA	1.58	0.84
28:Z3:531:LYS:NZ	30:b3:166:LEU:CB	2.39	0.84
2:A2:875:LEU:H	6:D1:568:ARG:N	1.76	0.84
2:A2:1135:ARG:HA	3:A5:147:LEU:HD22	1.58	0.84
2:A2:1142:PHE:HZ	3:A5:567:VAL:HB	0.69	0.84
2:A4:880:ALA:CB	6:D3:558:LYS:CE	2.55	0.84
11:I1:981:VAL:HG23	20:R1:147:LEU:HD23	1.58	0.84
11:I1:1106:LYS:HB2	16:N1:440:GLU:OE2	1.77	0.84
11:I2:988:GLU:O	15:M3:608:LYS:HE3	1.75	0.84
11:I3:1270:LYS:C	26:X1:529:TRP:H	1.86	0.84
21:S4:1120:PRO:HD3	21:S4:1155:GLN:NE2	1.92	0.84
26:X2:159:ILE:HG12	26:X2:175:LEU:HB3	1.59	0.84
2:A2:1125:LEU:O	3:A5:137:HIS:CG	2.09	0.84
11:I1:895:ARG:HH21	17:O1:233:THR:CG2	1.91	0.84
11:I1:976:ARG:CA	20:R1:149:ARG:HB3	2.08	0.84
11:I1:986:ASN:CA	15:M1:613:ASP:N	2.40	0.84
11:I2:899:LEU:HD22	17:O3:231:ASP:CG	2.02	0.84
11:I2:1049:LEU:O	17:O3:287:LEU:C	2.21	0.84
21:S1:1120:PRO:HD3	21:S1:1155:GLN:NE2	1.92	0.84
28:Z2:534:ASP:HA	30:b2:164:CYS:CB	2.01	0.84
28:Z2:534:ASP:N	30:b2:164:CYS:HB3	1.93	0.84
28:Z3:524:VAL:CG1	30:b3:236:THR:C	2.50	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1197:ALA:HB3	2:A2:728:LYS:HZ1	0.91	0.84
1:A1:1200:ARG:NE	2:A2:642:ARG:HH21	1.73	0.84
1:A1:1223:GLU:HG3	2:A2:734:LEU:CD1	2.06	0.84
2:A2:827:ILE:CD1	2:A2:859:GLN:HB2	2.07	0.84
2:A2:965:LYS:CE	6:D1:196:ILE:O	2.25	0.84
2:A2:973:GLU:CB	6:D1:498:GLU:HG3	2.06	0.84
2:A4:880:ALA:CA	6:D3:558:LYS:HE3	2.08	0.84
2:A4:985:ALA:CB	6:D3:500:LYS:CA	2.56	0.84
9:G1:250:THR:CA	15:M2:605:THR:CG2	2.55	0.84
11:I1:927:HIS:CD2	15:M1:594:LYS:HG3	2.12	0.84
11:I1:947:LEU:HB2	17:O1:256:TYR:CZ	1.71	0.84
11:I2:899:LEU:CD2	17:O3:235:ASN:CB	2.49	0.84
11:I2:924:ILE:HG13	15:M3:597:LYS:N	1.93	0.84
11:I2:995:SER:C	17:O3:267:ALA:HB3	2.01	0.84
11:I2:1019:LEU:N	16:N3:409:ALA:C	2.32	0.84
11:I2:1054:ILE:C	17:O3:281:ALA:HB3	2.01	0.84
11:I2:1109:LEU:HD22	17:O3:290:TYR:CD2	2.13	0.84
11:I3:1277:LEU:HB2	26:X1:522:MET:N	1.92	0.84
28:Z2:293:LEU:HD13	28:Z2:297:LEU:HD12	1.59	0.84
28:Z3:531:LYS:HZ1	30:b3:166:LEU:HB3	1.42	0.84
28:Z3:557:CYS:HB3	30:b3:210:ARG:HH11	1.01	0.84
28:Z4:561:GLN:HG3	30:b4:236:THR:HA	1.59	0.84
1:A1:835:THR:N	6:D3:302:PRO:CB	2.41	0.84
1:A3:1048:ARG:C	6:D3:816:VAL:HG22	2.02	0.84
2:A4:980:ARG:H	6:D3:473:GLU:CA	1.88	0.84
2:A4:1135:ARG:CG	3:A6:160:ILE:HD11	2.08	0.84
11:I1:945:LEU:HB3	17:O1:259:ASP:HB3	1.59	0.84
11:I1:1668:HIS:CB	11:I2:1668:HIS:C	2.50	0.84
11:I2:1044:GLY:H	15:M3:616:LEU:HD13	1.43	0.84
11:I2:1048:GLU:HB3	17:O3:284:LYS:C	2.03	0.84
11:I2:1048:GLU:CB	17:O3:284:LYS:CA	2.56	0.84
11:I3:1270:LYS:N	26:X1:529:TRP:N	2.26	0.84
28:Z1:525:LEU:N	30:b1:208:ASN:OD1	2.11	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
28:Z3:531:LYS:HB3	30:b3:182:PRO:O	1.76	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
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD22	2.13	0.84
2:A2:1155:ASN:O	3:A5:175:GLU:HG3	1.77	0.84
1:A3:1048:ARG:CZ	6:D3:819:ASN:OD1	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1225:PRO:HD3	2:A4:723:PHE:O	1.78	0.84
2:A4:200:VAL:HG21	4:B4:351:GLU:O	1.77	0.84
2:A4:1118:GLN:CG	3:A6:132:ASP:HB2	2.07	0.84
3:A5:155:TYR:HE2	5:C2:740:ARG:HB3	1.33	0.84
11:I1:880:MET:CG	17:O1:247:TRP:C	2.44	0.84
11:I1:951:LYS:HB3	17:O1:253:LEU:CD2	2.07	0.84
11:I2:895:ARG:H	17:O3:239:GLN:CG	1.91	0.84
11:I2:948:ALA:HB3	17:O3:256:TYR:CA	2.08	0.84
11:I2:989:GLY:HA3	15:M3:614:ASP:CB	2.07	0.84
11:I2:1030:ARG:CA	20:R3:172:ASP:O	2.25	0.84
11:I2:1054:ILE:C	17:O3:281:ALA:N	2.35	0.84
11:I5:1277:LEU:C	26:X2:517:ASP:OD1	2.20	0.84
28:Z1:561:GLN:HE22	30:b1:237:LEU:CD1	1.90	0.84
28:Z2:531:LYS:HB3	30:b2:182:PRO:O	1.76	0.84
28:Z3:402:GLY:HA3	30:b3:254:SER:HG	1.10	0.84
28:Z3:554:PHE:CD1	30:b3:232:PRO:HB2	2.10	0.84
28:Z3:555:LYS:C	30:b3:212:PHE:CB	2.51	0.84
28:Z4:561:GLN:HG2	30:b4:235:LEU:CD2	2.07	0.84
2:A2:1143:LEU:CD1	3:A5:131:PRO:HA	1.79	0.84
2:A4:980:ARG:H	6:D3:473:GLU:HA	1.41	0.84
3:A6:1351:MSE:C	28:Z4:918:PHE:CB	2.51	0.84
8:F1:1137:GLN:NE2	17:O2:249:ARG:HB3	1.91	0.84
11:I1:846:ILE:CA	15:M1:594:LYS:HD2	2.07	0.84
11:I1:881:ILE:N	17:O1:249:ARG:C	2.35	0.84
11:I1:949:CYS:SG	15:M1:602:MET:CE	2.64	0.84
11:I1:983:LEU:O	15:M1:614:ASP:OD2	1.96	0.84
11:I1:1110:SER:HB3	16:N1:434:LEU:O	1.77	0.84
11:I2:887:GLN:HE22	16:N3:396:ILE:HB	1.37	0.84
11:I2:931:VAL:CG2	15:M3:600:ASN:O	2.25	0.84
11:I3:1271:GLU:CA	26:X1:525:ILE:CG2	2.52	0.84
28:Z2:555:LYS:C	30:b2:212:PHE:CB	2.51	0.84
2:A2:781:ARG:HG3	6:D1:673:ARG:HB3	1.57	0.83
2:A2:1154:PHE:HB3	5:C2:733:LEU:CD1	2.08	0.83
2:A4:782:VAL:HG22	6:D3:677:GLN:HA	1.59	0.83
2:A4:868:GLN:CB	6:D3:570:VAL:HB	2.01	0.83
2:A4:1141:GLU:HB3	3:A6:130:ILE:HD12	0.84	0.83
3:A5:177:ILE:HD11	5:C2:740:ARG:CD	2.08	0.83
3:A6:1355:VAL:CA	28:Z4:877:ILE:CB	2.56	0.83
8:F1:1137:GLN:NE2	17:O2:249:ARG:H	1.74	0.83
11:I1:980:ILE:HD13	15:M1:622:VAL:H	1.21	0.83
11:I1:989:GLY:O	15:M1:608:LYS:CG	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1065:SER:OG	16:N1:430:ARG:NE	2.11	0.83
11:I2:920:PHE:HA	15:M3:592:LEU:CA	2.08	0.83
11:I2:934:LEU:O	15:M3:606:LEU:HA	1.78	0.83
11:I2:1021:ILE:HG13	16:N3:410:MET:HB2	1.59	0.83
11:I2:1036:PRO:HG3	17:O3:287:LEU:CG	2.08	0.83
11:I2:1055:GLU:CA	17:O3:278:GLU:HA	2.07	0.83
11:I4:775:ASP:OD1	29:a4:40[A]:GLU:CD	2.20	0.83
28:Z1:526:ARG:CA	30:b1:206:ASN:ND2	2.41	0.83
28:Z2:410:ASN:HB2	30:b2:251:ILE:HG13	1.56	0.83
28:Z2:535:ILE:HG12	30:b2:182:PRO:HG3	1.58	0.83
28:Z3:526:ARG:CA	30:b3:206:ASN:ND2	2.41	0.83
2:A2:780:GLU:N	6:D1:678:GLY:CA	2.37	0.83
2:A2:968:SER:CA	6:D1:202:GLN:N	2.39	0.83
2:A4:908:LEU:HD21	6:D3:602:THR:N	1.93	0.83
2:A4:1132:PRO:CG	3:A6:159:SER:C	2.45	0.83
3:A6:1365:VAL:CG2	28:Z4:845:ILE:CB	2.56	0.83
3:A6:1366:LEU:CG	28:Z4:868:GLN:C	2.30	0.83
3:A6:1398:LYS:C	28:Z4:886:LEU:C	2.43	0.83
3:A6:1401:VAL:CA	28:Z4:919:PHE:CB	2.54	0.83
3:A6:1410:ALA:HB3	26:X4:743:PHE:CA	2.06	0.83
9:G1:258:LYS:HZ2	16:N2:408:MET:CB	1.66	0.83
11:I1:949:CYS:O	16:N1:403:VAL:HG13	1.76	0.83
11:I1:983:LEU:CD1	15:M1:621:ARG:HH21	1.90	0.83
11:I1:1066:LEU:CB	16:N1:430:ARG:HB3	2.09	0.83
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CE	2.07	0.83
11:I2:887:GLN:HA	17:O3:242:ARG:HB3	1.57	0.83
11:I2:978:LYS:HZ2	20:R3:155:GLU:HB2	1.41	0.83
11:I2:1021:ILE:CG1	16:N3:410:MET:HE3	1.93	0.83
11:I2:1037:THR:CG2	20:R3:173:LEU:HD22	2.08	0.83
26:X4:159:ILE:HG12	26:X4:175:LEU:HB3	1.59	0.83
28:Z2:410:ASN:CB	30:b2:251:ILE:CG1	2.36	0.83
28:Z3:525:LEU:N	30:b3:208:ASN:OD1	2.11	0.83
28:Z3:556:ASN:ND2	30:b3:166:LEU:HD23	1.90	0.83
2:A2:970:PHE:C	6:D1:192:TYR:CE2	2.55	0.83
2:A2:1333:ARG:NH2	2:A2:1348:GLU:OE2	2.12	0.83
3:A5:1367:THR:HG22	28:Z2:844:CYS:O	1.78	0.83
3:A5:1392:ARG:NH1	28:Z2:867:LYS:H	1.70	0.83
11:I1:983:LEU:C	15:M1:617:THR:HG22	2.00	0.83
11:I1:1034:ASP:OD1	20:R1:177:LEU:HD23	1.78	0.83
11:I2:979:ALA:HB1	20:R3:167:GLN:HE22	1.40	0.83
11:I2:1039:ALA:HB3	20:R3:170:LEU:CG	1.34	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1275:SER:CB	26:X1:508:LEU:HD11	2.09	0.83
28:Z1:524:VAL:CG1	30:b1:236:THR:C	2.50	0.83
28:Z1:556:ASN:ND2	30:b1:166:LEU:HD23	1.90	0.83
1:A1:1204:TRP:HE3	2:A2:734:LEU:HD13	1.09	0.83
2:A2:825:ARG:HH12	6:D1:679:ILE:CD1	1.91	0.83
2:A2:1125:LEU:CA	3:A5:137:HIS:CD2	2.60	0.83
2:A2:1163:TYR:OH	3:A5:137:HIS:CE1	2.30	0.83
1:A3:1021:LEU:HD13	6:D3:816:VAL:HA	0.86	0.83
1:A3:1222:ALA:O	2:A4:731:ILE:HG12	1.78	0.83
2:A4:1142:PHE:CD2	3:A6:129:ASN:O	2.32	0.83
3:A5:1399:ARG:HH12	28:Z2:909:LEU:CB	1.91	0.83
3:A6:1409:MSE:CG	28:Z4:920:SER:CB	2.56	0.83
11:I2:884:LEU:CD1	15:M3:599:ILE:CD1	2.57	0.83
11:I2:899:LEU:HD21	17:O3:235:ASN:CG	1.89	0.83
11:I2:978:LYS:CD	20:R3:152:LYS:C	2.34	0.83
11:I2:1109:LEU:CA	17:O3:290:TYR:OH	2.25	0.83
11:I2:1609:GLY:O	12:J1:295:TYR:CE1	2.30	0.83
2:A2:225:THR:CG2	6:D1:706:HIS:HB3	2.08	0.83
2:A2:869:ALA:O	6:D1:548:LEU:CD2	2.26	0.83
2:A4:867:GLU:O	6:D3:584:LEU:HD23	1.79	0.83
2:A4:977:VAL:HA	6:D3:492:VAL:CG1	2.08	0.83
2:A4:1131:ILE:CD1	3:A6:160:ILE:CB	2.51	0.83
2:A4:1154:PHE:HB3	5:C4:733:LEU:CD1	2.08	0.83
3:A6:153:ILE:CD1	5:C4:739:MET:SD	2.67	0.83
3:A6:1409:MSE:SE	28:Z4:920:SER:CB	2.77	0.83
9:G1:260:THR:HG23	17:O2:259:ASP:HB3	1.61	0.83
11:I1:877:ILE:HB	17:O1:253:LEU:N	1.90	0.83
11:I1:958:THR:N	16:N1:399:HIS:CD2	2.46	0.83
11:I1:1038:ILE:O	15:M1:620:VAL:HG21	1.77	0.83
11:I2:1069:SER:H	16:N3:428:ASP:H	0.87	0.83
15:M3:483:LYS:NZ	16:N4:327:LYS:CE	2.40	0.83
28:Z1:410:ASN:HB2	30:b1:251:ILE:HG13	1.56	0.83
28:Z2:541:PRO:HD2	30:b2:180:GLY:CA	2.05	0.83
28:Z3:541:PRO:HD2	30:b3:180:GLY:CA	2.05	0.83
1:A1:1220:PRO:O	2:A2:646:ILE:N	2.11	0.83
2:A2:1157:TYR:HA	3:A5:176:LEU:CD2	2.08	0.83
1:A3:1098:ARG:HB3	11:I2:1414:CYS:HG	1.36	0.83
2:A4:1122:LEU:HB2	3:A6:132:ASP:O	1.78	0.83
3:A5:229:SER:CA	5:C2:739:MET:CE	2.56	0.83
3:A5:1098:ARG:NE	11:I5:29:GLN:HG3	1.94	0.83
3:A5:1406:GLY:N	28:Z2:917:ASP:O	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1361:ARG:HB2	28:Z4:875:LEU:CB	2.08	0.83
3:A6:1367:THR:HG23	28:Z4:852:SER:CB	2.08	0.83
9:G1:270:ARG:HB2	16:N2:413:VAL:C	2.03	0.83
11:I1:928:LEU:HD11	20:R1:155:GLU:HB2	1.61	0.83
11:I2:895:ARG:HH22	16:N3:386:MET:HG3	1.34	0.83
11:I2:976:ARG:HH21	20:R3:143:PHE:CA	1.91	0.83
11:I2:1049:LEU:O	17:O3:288:GLU:N	2.10	0.83
11:I2:1052:LEU:H	17:O3:286:ILE:HB	1.41	0.83
11:I5:1370:VAL:HG22	12:J5:259:THR:HG21	1.61	0.83
17:O2:111:TYR:H	18:P2:325:ILE:HG21	1.31	0.83
18:P2:320:GLN:HG3	18:P3:278:ASN:HB2	0.84	0.83
28:Z4:410:ASN:HB3	30:b4:251:ILE:HD12	1.55	0.83
2:A2:986:THR:OG1	6:D1:497:PHE:CZ	2.23	0.83
2:A2:1143:LEU:HG	3:A5:131:PRO:CB	2.06	0.83
2:A4:1139:ILE:HD12	3:A6:138:LEU:HG	1.59	0.83
3:A5:1098:ARG:HE	11:I5:29:GLN:HG2	1.43	0.83
3:A6:164:LEU:CD2	5:C4:742:ASP:OD2	2.27	0.83
11:I1:947:LEU:HD11	16:N1:411:GLN:HG2	0.85	0.83
11:I1:963:LEU:CD2	20:R1:176:ARG:HH22	1.87	0.83
11:I1:987:GLY:H	15:M1:613:ASP:C	1.87	0.83
11:I1:1036:PRO:N	16:N1:441:PHE:CE2	2.47	0.83
11:I1:1104:LEU:O	16:N1:436:ALA:CA	2.27	0.83
11:I1:1642:LEU:HD13	11:I2:1669:ARG:HH12	0.77	0.83
11:I1:1736:LEU:HD12	11:I2:1607:GLN:HE21	1.43	0.83
11:I2:950:LEU:HB2	16:N3:407:ALA:HA	1.59	0.83
11:I2:976:ARG:O	20:R3:150:ASN:CB	2.24	0.83
11:I2:986:ASN:H	15:M3:613:ASP:HB2	1.02	0.83
11:I2:997:SER:CB	16:N3:427:VAL:HG23	2.09	0.83
11:I2:1030:ARG:HB3	20:R3:172:ASP:O	1.78	0.83
11:I3:1370:VAL:HG22	12:J3:259:THR:HG21	1.61	0.83
28:Z4:407:GLY:C	30:b4:251:ILE:HD11	2.04	0.83
28:Z4:411:LEU:HD21	30:b4:251:ILE:HG23	1.56	0.83
28:Z4:526:ARG:CA	30:b4:206:ASN:ND2	2.41	0.83
2:A2:980:ARG:HH21	6:D1:503:LEU:CG	1.92	0.83
2:A2:1127:ALA:HA	3:A5:140:ALA:HB2	1.60	0.83
2:A4:1135:ARG:HB3	3:A6:160:ILE:HG13	1.61	0.83
2:A4:1159:ASP:CA	4:B6:342:ARG:CA	2.22	0.83
3:A6:1395:LYS:HG2	28:Z4:889:LEU:O	1.79	0.83
8:F2:1091:SER:O	17:O4:244:GLU:HB3	1.78	0.83
9:G1:255:LEU:CD1	17:O2:258:GLU:H	1.91	0.83
11:I1:895:ARG:HH21	17:O1:233:THR:HG21	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:980:ILE:HG12	15:M1:621:ARG:CB	2.09	0.83
11:I1:1611:PHE:CA	11:I2:1673:VAL:N	2.32	0.83
11:I2:879:VAL:HB	17:O3:251:ILE:HD12	1.61	0.83
11:I2:959:SER:N	20:R3:166:LEU:HD13	1.93	0.83
11:I2:1029:LEU:N	20:R3:173:LEU:N	2.19	0.83
11:I2:1113:LEU:HD22	17:O3:282:LYS:NZ	1.92	0.83
28:Z2:555:LYS:HB3	30:b2:212:PHE:CA	2.05	0.83
1:A1:1099:GLN:HG2	11:I1:1414:CYS:O	1.79	0.83
2:A2:865:ALA:H	6:D1:607:PRO:CD	1.90	0.83
2:A2:866:SER:HB2	6:D1:602:THR:O	1.78	0.83
2:A4:870:HIS:ND1	6:D3:566:PHE:HD1	1.64	0.83
2:A4:870:HIS:CE1	6:D3:566:PHE:HA	2.14	0.83
2:A4:1138:GLU:N	3:A6:147:LEU:HD11	1.92	0.83
2:A4:1154:PHE:CA	3:A6:175:GLU:HB2	2.08	0.83
3:A5:1026:PRO:HG2	11:I5:73:TYR:CB	2.08	0.83
3:A6:164:LEU:HG	5:C4:741:THR:O	1.78	0.83
8:F1:1265:GLN:HA	17:O2:265:ASN:HB2	1.61	0.83
8:F1:1392:LEU:CD2	17:O2:266:GLN:HE22	1.92	0.83
11:I1:911:PRO:CB	15:M1:584:GLN:NE2	2.42	0.83
11:I1:917:TYR:CD1	15:M1:586:ASP:O	2.32	0.83
11:I1:947:LEU:O	17:O1:253:LEU:CD2	2.25	0.83
11:I1:1049:LEU:HB2	20:R1:146:LEU:CD1	2.09	0.83
11:I2:952:LEU:C	16:N3:403:VAL:HG21	2.03	0.83
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD1	2.27	0.83
11:I2:1036:PRO:HG2	15:M3:622:VAL:C	2.03	0.83
15:M3:483:LYS:HZ1	16:N4:327:LYS:HE3	1.41	0.83
17:O3:158:GLU:HG3	18:P3:316:LEU:H	1.03	0.83
17:O4:112:GLY:O	18:P4:325:ILE:HD13	1.79	0.83
28:Z4:525:LEU:N	30:b4:208:ASN:OD1	2.11	0.83
2:A2:874:VAL:HG21	6:D1:611:LYS:HG2	1.60	0.83
2:A4:864:ARG:CD	6:D3:607:PRO:C	2.52	0.83
2:A4:1139:ILE:HD13	3:A6:137:HIS:HB2	1.61	0.83
11:I1:884:LEU:CG	16:N1:396:ILE:HG21	1.97	0.83
11:I1:947:LEU:HG	16:N1:408:MET:CA	2.08	0.83
11:I1:1031:ALA:O	20:R1:176:ARG:HB2	0.92	0.83
11:I1:1106:LYS:CA	16:N1:440:GLU:OE2	2.23	0.83
11:I1:1668:HIS:C	11:I2:1668:HIS:CB	2.52	0.83
11:I2:895:ARG:HD3	17:O3:234:LEU:CD1	2.08	0.83
11:I2:917:TYR:N	15:M3:585:LEU:O	2.12	0.83
11:I2:993:SER:HB3	16:N3:430:ARG:HH11	1.38	0.83
11:I2:1113:LEU:HD22	17:O3:282:LYS:HZ3	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1370:VAL:HG22	12:J2:259:THR:HG21	1.61	0.83
17:O3:147:ALA:CB	18:P3:328:PRO:CB	2.45	0.83
28:Z1:534:ASP:N	30:b1:164:CYS:HB3	1.93	0.83
28:Z1:555:LYS:CB	30:b1:212:PHE:HA	2.09	0.83
28:Z2:554:PHE:CD1	30:b2:232:PRO:HB2	2.10	0.83
28:Z4:293:LEU:HD13	28:Z4:297:LEU:HD12	1.59	0.83
2:A2:782:VAL:H	6:D1:676:ALA:C	1.84	0.82
2:A2:965:LYS:HE3	6:D1:196:ILE:C	2.04	0.82
2:A4:988:ARG:CD	6:D3:500:LYS:CG	2.56	0.82
2:A4:1134:GLU:CB	3:A6:146:LYS:CA	2.38	0.82
2:A4:1138:GLU:N	3:A6:138:LEU:HD13	1.94	0.82
2:A4:1160:GLN:CG	3:A6:165:PHE:HA	2.09	0.82
3:A5:1026:PRO:HB2	11:I5:73:TYR:HD1	0.93	0.82
3:A5:1368:GLN:CD	28:Z2:840:PHE:CB	2.52	0.82
4:B6:345:LYS:CA	5:C4:737:LYS:CE	2.47	0.82
11:I1:947:LEU:CD1	16:N1:411:GLN:HB3	2.09	0.82
11:I1:1370:VAL:HG22	12:J1:259:THR:HG21	1.61	0.82
11:I2:927:HIS:HB2	15:M3:597:LYS:HB3	1.61	0.82
11:I2:950:LEU:HD22	16:N3:406:HIS:HE2	1.44	0.82
11:I2:963:LEU:HD23	20:R3:168:LEU:HD11	1.60	0.82
11:I2:966:TRP:C	20:R3:153:GLN:CB	2.52	0.82
11:I2:1017:VAL:CG2	17:O3:260:LEU:CD1	2.56	0.82
11:I2:1040:HIS:HB3	16:N3:434:LEU:CD1	2.07	0.82
11:I3:1273:GLU:CG	26:X1:535:ALA:CB	2.55	0.82
28:Z1:524:VAL:CB	30:b1:236:THR:O	2.27	0.82
28:Z1:552:ASP:O	30:b1:233:TRP:CG	2.14	0.82
28:Z3:557:CYS:CA	30:b3:210:ARG:HA	2.09	0.82
28:Z4:523:ASP:CB	30:b4:238:ASN:CA	1.89	0.82
28:Z4:557:CYS:CA	30:b4:210:ARG:HA	2.09	0.82
1:A1:1225:PRO:O	2:A2:728:LYS:HB3	1.79	0.82
2:A2:1149:THR:H	3:A5:172:PRO:CG	1.90	0.82
2:A4:227:SER:OG	6:D3:708:ASP:O	1.97	0.82
2:A4:875:LEU:HD12	6:D3:567:LEU:HG	1.59	0.82
11:I1:882:LYS:H	17:O1:249:ARG:HB2	0.66	0.82
11:I2:947:LEU:N	17:O3:260:LEU:CD2	2.42	0.82
11:I2:958:THR:HA	20:R3:168:LEU:HD21	1.59	0.82
21:S3:1058:ILE:O	21:S3:1059:ASP:HB2	1.79	0.82
28:Z3:539:GLU:HB3	30:b3:165:THR:N	1.78	0.82
28:Z4:524:VAL:CB	30:b4:236:THR:CG2	2.31	0.82
1:A1:874:VAL:HG22	6:D3:272:VAL:HG11	1.61	0.82
2:A2:865:ALA:CA	6:D1:604:ASP:O	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1140:GLU:OE1	3:A5:135:PHE:HD1	1.58	0.82
1:A3:832:ASN:OD1	6:D1:302:PRO:HB3	1.79	0.82
1:A3:1052:THR:CG2	6:D3:813:GLN:O	2.28	0.82
2:A4:231:SER:CB	6:D3:709:ARG:HH21	1.89	0.82
2:A4:970:PHE:CZ	6:D3:555:ARG:NH2	2.46	0.82
2:A4:975:GLU:C	6:D3:496:LEU:O	2.22	0.82
2:A4:1333:ARG:NH2	2:A4:1348:GLU:OE2	2.11	0.82
3:A5:178:GLY:CA	5:C2:743:LEU:HD23	2.08	0.82
3:A5:1356:SER:OG	28:Z2:877:ILE:HA	1.78	0.82
3:A5:1363:ASP:OD2	28:Z2:872:TYR:HA	1.52	0.82
3:A5:1363:ASP:CA	28:Z2:875:LEU:CB	2.57	0.82
11:I1:885:GLU:C	16:N1:397:GLU:CD	2.46	0.82
11:I1:918:SER:OG	16:N1:386:MET:CA	2.26	0.82
11:I1:950:LEU:HB2	16:N1:407:ALA:H	1.31	0.82
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD11	1.94	0.82
11:I2:890:TYR:CA	17:O3:238:ALA:C	2.52	0.82
11:I2:954:GLU:HB3	16:N3:403:VAL:N	1.93	0.82
11:I2:1049:LEU:HD12	15:M3:626:HIS:NE2	1.94	0.82
11:I2:1055:GLU:N	17:O3:278:GLU:CA	2.33	0.82
11:I3:1267:LEU:HD21	26:X1:529:TRP:CE3	2.12	0.82
11:I3:1271:GLU:O	26:X1:525:ILE:CG2	2.21	0.82
28:Z2:402:GLY:CA	30:b2:273:LYS:HB2	2.09	0.82
1:A1:1226:LEU:N	2:A2:725:GLU:CG	2.42	0.82
2:A2:911:TYR:CE2	6:D1:555:ARG:NE	2.42	0.82
2:A2:979:GLY:H	6:D1:496:LEU:HD13	1.42	0.82
2:A2:989:MSE:SE	6:D1:241:ALA:N	2.62	0.82
2:A4:781:ARG:HH22	6:D3:633:LYS:HD2	1.41	0.82
2:A4:1125:LEU:O	3:A6:140:ALA:CB	2.27	0.82
2:A4:1167:CYS:HB3	4:B6:342:ARG:HE	1.43	0.82
9:G1:258:LYS:HZ3	16:N2:408:MET:HB2	1.29	0.82
11:I1:922:ASP:C	15:M1:592:LEU:HB3	2.03	0.82
11:I1:923:GLY:C	15:M1:590:LYS:O	2.23	0.82
11:I1:931:VAL:HG23	15:M1:603:SER:HG	1.41	0.82
11:I1:939:ASN:O	17:O1:262:ASP:CA	2.16	0.82
11:I1:1052:LEU:HD22	16:N1:438:LEU:HG	0.84	0.82
11:I2:1020:ALA:HB3	16:N3:410:MET:CB	2.08	0.82
11:I2:1037:THR:CB	20:R3:173:LEU:HD22	2.08	0.82
11:I2:1043:LEU:HD11	16:N3:433:GLU:CB	2.04	0.82
11:I4:1277:LEU:N	26:X3:519:ILE:C	2.37	0.82
17:O3:162:LYS:CA	18:P3:315:GLU:OE1	2.27	0.82
28:Z2:525:LEU:N	30:b2:208:ASN:OD1	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:524:VAL:CB	30:b3:236:THR:O	2.27	0.82
28:Z4:524:VAL:HG21	30:b4:236:THR:O	1.18	0.82
1:A1:1222:ALA:HB1	2:A2:615:LEU:CD1	2.08	0.82
2:A2:1094:ILE:CD1	6:D2:759:GLN:CD	2.52	0.82
1:A3:1056:PHE:CE2	6:D3:810:ARG:N	2.46	0.82
2:A4:864:ARG:HH22	6:D3:610:ASN:HD21	1.24	0.82
3:A5:150:PHE:CE2	5:C2:742:ASP:HB3	2.15	0.82
3:A6:209:VAL:HG22	5:C4:742:ASP:HB2	1.61	0.82
9:G1:263:MET:O	16:N2:411:GLN:HB2	1.80	0.82
11:I1:976:ARG:N	20:R1:149:ARG:NH1	2.28	0.82
11:I1:1021:ILE:HA	16:N1:406:HIS:CG	2.14	0.82
11:I2:888:GLU:HG3	16:N3:393:ILE:HG22	1.61	0.82
11:I2:1038:ILE:CD1	15:M3:621:ARG:HG3	2.08	0.82
11:I4:1274:HIS:HD1	26:X3:529:TRP:HB2	1.37	0.82
28:Z1:407:GLY:C	30:b1:251:ILE:HD11	2.04	0.82
28:Z1:557:CYS:CA	30:b1:210:ARG:HA	2.09	0.82
28:Z2:524:VAL:CB	30:b2:236:THR:O	2.27	0.82
2:A2:1152:ASP:CG	3:A5:171:HIS:HA	2.04	0.82
1:A3:1199:GLN:N	2:A4:729:SER:O	2.12	0.82
2:A4:987:LYS:HE2	6:D3:553:PHE:O	1.79	0.82
2:A4:1149:THR:CG2	3:A6:173:ASN:H	1.89	0.82
3:A6:1310:ARG:N	28:Z4:830:LEU:CB	2.43	0.82
8:F1:1262:HIS:CG	17:O2:259:ASP:HA	2.15	0.82
11:I1:983:LEU:HD11	15:M1:604:ASN:OD1	1.79	0.82
11:I1:1038:ILE:CA	20:R1:169:GLY:HA3	2.09	0.82
11:I2:840:LEU:CD2	17:O3:247:TRP:HB2	2.09	0.82
11:I2:1018:LYS:CE	16:N3:413:VAL:HG12	2.06	0.82
21:S3:1120:PRO:HD3	21:S3:1155:GLN:HE22	1.41	0.82
28:Z2:526:ARG:CA	30:b2:206:ASN:ND2	2.41	0.82
28:Z4:438:GLU:CG	30:b4:333:HIS:CE1	2.63	0.82
1:A1:1223:GLU:CG	2:A2:734:LEU:HD21	2.08	0.82
2:A2:863:GLN:CA	6:D1:605:THR:N	2.14	0.82
2:A2:988:ARG:N	6:D1:500:LYS:HZ1	1.77	0.82
2:A2:989:MSE:CE	6:D1:241:ALA:H	1.90	0.82
2:A2:1135:ARG:NH1	3:A5:156:ALA:HB3	1.94	0.82
2:A4:827:ILE:HD13	2:A4:859:GLN:N	1.65	0.82
2:A4:861:GLN:C	6:D3:607:PRO:HG3	2.05	0.82
2:A4:1118:GLN:HG2	3:A6:132:ASP:OD2	1.80	0.82
3:A5:232:LEU:HD12	5:C2:740:ARG:CA	2.08	0.82
3:A5:1391:ARG:CB	28:Z2:871:HIS:N	2.39	0.82
11:I1:952:LEU:HD11	15:M1:599:ILE:HG12	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1106:LYS:CB	16:N1:440:GLU:OE2	2.27	0.82
11:I2:833:PHE:HZ	17:O3:242:ARG:HA	1.44	0.82
11:I2:934:LEU:O	15:M3:606:LEU:CA	2.26	0.82
11:I2:1039:ALA:C	20:R3:170:LEU:CG	2.50	0.82
11:I2:1546:TRP:HB3	12:J1:300:ILE:CD1	2.10	0.82
11:I4:1271:GLU:OE1	26:X3:504:ILE:HD13	1.78	0.82
11:I4:1276:GLN:O	26:X3:518:ASP:O	1.98	0.82
21:S4:1058:ILE:O	21:S4:1059:ASP:HB2	1.79	0.82
28:Z1:523:ASP:OD2	30:b1:239:THR:HG23	1.80	0.82
28:Z3:555:LYS:CB	30:b3:212:PHE:HA	2.09	0.82
28:Z4:539:GLU:HB3	30:b4:165:THR:N	1.78	0.82
1:A1:1222:ALA:HB2	2:A2:615:LEU:CD1	1.96	0.82
2:A2:1125:LEU:HB3	3:A5:134:VAL:HA	1.61	0.82
2:A2:1149:THR:CB	3:A5:172:PRO:HG2	2.10	0.82
2:A4:880:ALA:HB2	6:D3:558:LYS:CE	2.10	0.82
2:A4:1125:LEU:C	3:A6:137:HIS:C	2.41	0.82
3:A6:146:LYS:CD	5:C4:746:PRO:CB	2.57	0.82
3:A6:1316:VAL:HG13	28:Z4:871:HIS:N	1.61	0.82
3:A6:1391:ARG:HD2	28:Z4:869:HIS:CA	2.09	0.82
9:G2:256:GLN:NE2	17:O4:263:GLN:N	2.27	0.82
11:I1:952:LEU:O	16:N1:400:LEU:CD2	2.26	0.82
11:I1:1037:THR:HG23	20:R1:170:LEU:H	1.43	0.82
11:I1:1037:THR:N	20:R1:173:LEU:HD21	1.76	0.82
11:I2:884:LEU:CD1	15:M3:599:ILE:HD11	2.07	0.82
11:I2:899:LEU:HD11	17:O3:234:LEU:H	1.42	0.82
11:I2:980:ILE:HA	15:M3:618:GLN:HA	1.62	0.82
11:I2:1037:THR:HA	15:M3:620:VAL:O	0.97	0.82
11:I2:1054:ILE:HA	17:O3:280:GLU:CA	2.08	0.82
28:Z2:524:VAL:N	30:b2:238:ASN:CB	2.03	0.82
28:Z3:406:ARG:CG	30:b3:252:ALA:CB	2.58	0.82
1:A1:868:GLN:HA	6:D3:280:GLN:HB3	1.62	0.82
2:A2:976:LEU:HB2	6:D1:496:LEU:HD22	1.14	0.82
2:A2:1094:ILE:HD13	6:D2:759:GLN:HE21	1.42	0.82
2:A2:1150:LEU:HG	5:C2:731:LYS:HA	1.62	0.82
2:A2:1151:THR:HG23	5:C2:734:VAL:CA	2.10	0.82
1:A3:832:ASN:CG	6:D1:302:PRO:HB3	2.04	0.82
2:A4:870:HIS:HB2	6:D3:566:PHE:HE1	1.41	0.82
2:A4:974:PRO:CA	6:D3:499:LEU:HG	2.09	0.82
3:A5:230:LYS:CB	5:C2:739:MET:O	2.25	0.82
3:A5:996:ASN:ND2	11:I5:58:ALA:HB2	1.93	0.82
3:A5:999:SER:CB	11:I5:64:LYS:HE3	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1313:LYS:HA	28:Z2:833:ASP:CB	2.09	0.82
3:A6:1366:LEU:HD12	28:Z4:868:GLN:C	2.04	0.82
8:F1:1261:TYR:OH	17:O2:260:LEU:CA	1.79	0.82
9:G1:258:LYS:HZ3	16:N2:408:MET:CB	1.69	0.82
11:I1:917:TYR:O	15:M1:588:MET:CG	2.27	0.82
11:I1:950:LEU:HB2	16:N1:407:ALA:HB3	1.60	0.82
11:I1:1037:THR:CG2	20:R1:169:GLY:C	2.48	0.82
11:I2:841:PHE:C	15:M3:591:ASP:HB2	2.05	0.82
11:I2:947:LEU:N	17:O3:260:LEU:HD23	1.95	0.82
11:I2:1020:ALA:CB	16:N3:407:ALA:CA	2.45	0.82
11:I4:1271:GLU:CB	26:X3:528:GLU:OE1	2.25	0.82
18:P1:276:SER:C	18:P4:322:LYS:HD2	2.03	0.82
21:S1:1058:ILE:O	21:S1:1059:ASP:HB2	1.79	0.82
28:Z1:410:ASN:CB	30:b1:251:ILE:CG1	2.36	0.82
28:Z2:561:GLN:CB	30:b2:236:THR:C	2.53	0.82
28:Z2:561:GLN:HE22	30:b2:237:LEU:CD1	1.90	0.82
28:Z3:438:GLU:CG	30:b3:333:HIS:CE1	2.63	0.82
2:A2:1135:ARG:CA	3:A5:147:LEU:HD21	1.74	0.82
2:A4:978:ASP:C	6:D3:475:ALA:HB3	2.05	0.82
3:A6:1359:LEU:HD22	28:Z4:873:LEU:CB	2.07	0.82
6:D7:176:SER:CB	11:I3:95:LYS:NZ	2.43	0.82
9:G1:250:THR:HA	15:M2:605:THR:CG2	2.09	0.82
9:G2:256:GLN:H	17:O4:262:ASP:CG	1.88	0.82
11:I1:843:GLU:CG	15:M1:587:GLU:CD	2.41	0.82
11:I1:883:ALA:HB1	17:O1:243:LEU:O	1.66	0.82
11:I1:934:LEU:HD12	15:M1:599:ILE:O	1.80	0.82
11:I1:1017:VAL:CG1	17:O1:260:LEU:HD21	2.10	0.82
11:I2:884:LEU:O	16:N3:397:GLU:HG2	1.78	0.82
11:I2:890:TYR:HB2	17:O3:242:ARG:CB	2.10	0.82
11:I2:952:LEU:CD2	15:M3:602:MET:HB2	2.07	0.82
11:I2:1042:LEU:CG	15:M3:616:LEU:HD23	1.93	0.82
11:I2:1109:LEU:HD22	17:O3:290:TYR:HD2	1.44	0.82
11:I4:1274:HIS:HE1	26:X3:529:TRP:C	1.87	0.82
28:Z2:400:LYS:O	30:b2:252:ALA:HA	1.80	0.82
28:Z3:561:GLN:HE22	30:b3:237:LEU:CD1	1.90	0.82
2:A2:225:THR:H	6:D1:709:ARG:CZ	1.93	0.81
2:A2:977:VAL:HA	6:D1:496:LEU:HD12	1.62	0.81
1:A3:1202:GLU:O	2:A4:732:GLN:HB3	1.79	0.81
2:A4:1138:GLU:O	3:A6:130:ILE:CB	2.27	0.81
3:A6:1406:GLY:H	28:Z4:924:ARG:N	1.76	0.81
6:D7:530:ARG:NH1	11:I3:182:VAL:N	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1093:LEU:CG	17:O2:241:SER:HA	2.10	0.81
11:I1:879:VAL:O	17:O1:246:LEU:C	1.90	0.81
11:I1:916:ALA:CB	15:M1:586:ASP:CB	2.57	0.81
11:I1:1047:CYS:O	15:M1:619:ILE:HA	1.73	0.81
11:I2:840:LEU:CB	17:O3:247:TRP:CD1	2.63	0.81
11:I2:951:LYS:HE2	16:N3:404:GLU:CG	1.96	0.81
11:I2:978:LYS:NZ	20:R3:155:GLU:HB3	1.93	0.81
11:I2:1034:ASP:HB2	15:M3:630:LEU:HD13	1.62	0.81
11:I2:1106:LYS:HB3	16:N3:440:GLU:HG3	1.60	0.81
11:I5:1279:THR:HG23	26:X2:520:GLU:C	2.00	0.81
26:X2:156:GLU:OE2	26:X2:214:ARG:NH1	2.13	0.81
28:Z4:406:ARG:CG	30:b4:252:ALA:CB	2.58	0.81
2:A2:867:GLU:C	6:D1:598:ILE:HG21	2.06	0.81
2:A2:873:PRO:C	6:D1:563:GLU:HB3	2.03	0.81
2:A2:875:LEU:CD2	6:D1:567:LEU:N	2.44	0.81
2:A2:1157:TYR:CG	3:A5:174:PRO:O	2.33	0.81
9:G1:252:LEU:CA	15:M2:602:MET:SD	2.68	0.81
11:I1:931:VAL:CG2	15:M1:604:ASN:OD1	2.28	0.81
11:I1:981:VAL:CG1	20:R1:151:LYS:CG	2.57	0.81
11:I1:1049:LEU:N	15:M1:622:VAL:HG11	1.95	0.81
11:I2:936:LYS:HG2	15:M3:609:GLY:O	1.80	0.81
11:I2:980:ILE:HG22	15:M3:617:THR:O	1.79	0.81
11:I2:984:GLU:OE2	15:M3:618:GLN:CB	2.26	0.81
11:I3:1276:GLN:C	26:X1:522:MET:HB2	2.04	0.81
11:I4:1270:LYS:CD	26:X3:530:ARG:HG3	2.09	0.81
17:O3:102:LYS:CD	18:P3:322:LYS:HZ1	1.93	0.81
21:S1:1120:PRO:HD3	21:S1:1155:GLN:HE22	1.41	0.81
28:Z2:555:LYS:CB	30:b2:212:PHE:HA	2.09	0.81
28:Z3:561:GLN:CB	30:b3:236:THR:C	2.53	0.81
28:Z4:524:VAL:CB	30:b4:236:THR:O	2.27	0.81
28:Z4:531:LYS:HD2	30:b4:182:PRO:C	2.05	0.81
2:A2:988:ARG:HB3	6:D1:500:LYS:CE	2.10	0.81
2:A2:989:MSE:CA	6:D1:500:LYS:HE3	2.09	0.81
2:A2:1125:LEU:HB3	3:A5:134:VAL:CA	1.86	0.81
2:A2:1157:TYR:CA	3:A5:176:LEU:HG	2.10	0.81
2:A4:781:ARG:CD	6:D3:633:LYS:NZ	2.43	0.81
2:A4:861:GLN:CB	6:D3:606:LYS:NZ	2.44	0.81
2:A4:909:LYS:CD	6:D3:555:ARG:NH1	2.33	0.81
3:A5:209:VAL:HG22	5:C2:744:PHE:O	1.80	0.81
3:A5:232:LEU:HD13	5:C2:740:ARG:CB	2.06	0.81
3:A5:1026:PRO:CD	11:I5:66:LEU:CD2	2.49	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1379:GLY:HA2	28:Z2:816:THR:H	1.43	0.81
3:A6:1376:LEU:CA	28:Z4:814:THR:O	2.26	0.81
3:A6:1405:LEU:CG	28:Z4:921:THR:CB	2.48	0.81
9:G1:256:GLN:H	17:O2:257:ALA:HB3	1.44	0.81
11:I1:947:LEU:CA	16:N1:407:ALA:HB3	2.06	0.81
11:I1:1043:LEU:CA	16:N1:430:ARG:HD2	2.10	0.81
11:I1:1109:LEU:HB3	16:N1:437:VAL:O	1.79	0.81
11:I2:890:TYR:CB	17:O3:242:ARG:HG3	2.10	0.81
11:I2:895:ARG:H	17:O3:239:GLN:HB2	1.43	0.81
11:I2:947:LEU:C	17:O3:256:TYR:CD2	2.44	0.81
11:I2:953:LEU:HD11	15:M3:606:LEU:HB3	1.60	0.81
11:I2:965:ALA:HB3	20:R3:164:PRO:CA	2.08	0.81
11:I2:966:TRP:CD1	20:R3:154:ALA:O	2.32	0.81
11:I2:994:ALA:HB1	17:O3:270:THR:N	1.95	0.81
11:I2:1021:ILE:HG13	16:N3:410:MET:CG	2.09	0.81
11:I2:1048:GLU:CB	17:O3:284:LYS:HA	2.09	0.81
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CE	1.92	0.81
11:I2:1114:VAL:HG13	16:N3:432:TYR:HA	1.61	0.81
11:I4:1270:LYS:N	26:X3:528:GLU:CB	1.76	0.81
17:O3:102:LYS:CG	18:P3:322:LYS:NZ	2.38	0.81
28:Z1:400:LYS:O	30:b1:252:ALA:HA	1.80	0.81
28:Z1:411:LEU:CD2	30:b1:251:ILE:CG2	2.54	0.81
28:Z2:523:ASP:OD2	30:b2:239:THR:HG23	1.80	0.81
28:Z2:557:CYS:CA	30:b2:210:ARG:HA	2.09	0.81
28:Z4:400:LYS:O	30:b4:252:ALA:HA	1.80	0.81
28:Z4:541:PRO:HD2	30:b4:180:GLY:CA	2.05	0.81
1:A1:1200:ARG:HB3	2:A2:727:ASN:C	2.06	0.81
1:A3:1223:GLU:HG3	2:A4:734:LEU:HD13	1.61	0.81
2:A4:1151:THR:HG23	5:C4:734:VAL:CA	2.09	0.81
3:A5:995:VAL:O	11:I5:58:ALA:HA	1.77	0.81
3:A6:1328:ARG:NH1	28:Z4:910:GLN:CB	2.43	0.81
3:A6:1351:MSE:CG	28:Z4:917:ASP:N	2.44	0.81
3:A6:1416:ARG:HB3	28:Z4:977:ALA:CB	2.09	0.81
5:C1:732:LYS:CG	11:I1:1228:GLU:HG3	2.09	0.81
9:G1:258:LYS:NZ	16:N2:408:MET:CG	2.42	0.81
11:I2:833:PHE:CE2	17:O3:241:SER:C	2.59	0.81
11:I2:928:LEU:HD11	20:R3:151:LYS:HE2	1.61	0.81
11:I2:976:ARG:CZ	20:R3:147:LEU:H	1.93	0.81
11:I3:715:GLY:H	29:a2:40[A]:GLU:CD	1.88	0.81
11:I4:1273:GLU:C	26:X3:522:MET:O	2.21	0.81
11:I5:1276:GLN:O	26:X2:518:ASP:CA	2.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:531:LYS:HD2	30:b1:182:PRO:C	2.06	0.81
28:Z1:541:PRO:HD2	30:b1:180:GLY:CA	2.05	0.81
28:Z2:557:CYS:HB3	30:b2:210:ARG:HH11	1.01	0.81
28:Z3:531:LYS:HD2	30:b3:182:PRO:C	2.06	0.81
28:Z4:523:ASP:OD2	30:b4:239:THR:HG23	1.80	0.81
28:Z4:524:VAL:CG1	30:b4:236:THR:HG21	2.07	0.81
28:Z4:552:ASP:O	30:b4:233:TRP:CG	2.14	0.81
28:Z4:555:LYS:CB	30:b4:212:PHE:HA	2.09	0.81
28:Z4:555:LYS:HB3	30:b4:212:PHE:CA	2.05	0.81
1:A1:1223:GLU:CG	2:A2:734:LEU:HD11	2.09	0.81
2:A2:1136:LYS:O	3:A5:130:ILE:HG21	1.81	0.81
2:A2:1157:TYR:HD1	3:A5:176:LEU:HD21	1.44	0.81
2:A4:868:GLN:OE1	6:D3:570:VAL:C	2.23	0.81
2:A4:985:ALA:HB1	6:D3:500:LYS:N	1.89	0.81
6:D7:480:PHE:CE2	11:I3:181:GLN:O	2.33	0.81
8:F1:158:PRO:CD	11:I1:1207:PRO:HD3	2.11	0.81
8:F1:1205:TRP:HE1	17:O2:251:ILE:HG23	0.70	0.81
11:I1:846:ILE:CG1	15:M1:591:ASP:HA	2.05	0.81
11:I1:959:SER:HB3	20:R1:166:LEU:CD2	2.09	0.81
11:I1:1070:LEU:CA	16:N1:429:GLU:HG2	2.10	0.81
11:I1:1109:LEU:CB	16:N1:441:PHE:N	2.43	0.81
11:I1:1611:PHE:CA	11:I2:1673:VAL:H	1.94	0.81
11:I2:952:LEU:HD23	15:M3:602:MET:HB3	1.60	0.81
21:S2:1058:ILE:O	21:S2:1059:ASP:HB2	1.79	0.81
26:X1:156:GLU:OE2	26:X1:214:ARG:NH1	2.13	0.81
28:Z1:544:MET:HE1	30:b1:181:TYR:CA	2.05	0.81
28:Z2:406:ARG:CG	30:b2:252:ALA:CB	2.58	0.81
28:Z2:537:THR:OG1	30:b2:163:ASP:O	1.98	0.81
28:Z3:524:VAL:CG1	30:b3:236:THR:HG21	2.07	0.81
1:A1:1201:ARG:CZ	2:A2:734:LEU:CB	2.58	0.81
2:A2:781:ARG:HG3	6:D1:673:ARG:CA	2.11	0.81
2:A2:1164:TYR:HA	4:B5:342:ARG:CZ	2.05	0.81
1:A3:1091:VAL:HG23	6:D3:805:GLY:C	2.05	0.81
2:A4:869:ALA:HA	6:D3:548:LEU:CD1	2.07	0.81
2:A4:1151:THR:N	5:C4:733:LEU:HA	1.95	0.81
3:A5:1024:ASP:C	11:I5:68:ILE:CD1	2.54	0.81
3:A5:1373:GLY:C	28:Z2:814:THR:CB	2.54	0.81
6:D2:301:LEU:HD12	6:D2:301:LEU:O	1.81	0.81
6:D4:301:LEU:HD12	6:D4:301:LEU:O	1.81	0.81
11:I1:840:LEU:HB3	17:O1:243:LEU:CB	2.10	0.81
11:I1:849:LEU:HD12	17:O1:247:TRP:CE3	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1043:LEU:HD22	16:N1:430:ARG:HA	1.59	0.81
11:I1:1540:LYS:CE	11:I2:1739:GLU:CB	2.51	0.81
11:I2:884:LEU:HB2	16:N3:400:LEU:HD12	0.82	0.81
11:I3:1277:LEU:HD21	26:X1:513:PHE:CG	2.16	0.81
11:I5:1281:GLU:OE2	26:X2:516:ASN:ND2	2.14	0.81
21:S4:1036:ILE:HD12	21:S4:1073:ILE:HG22	1.62	0.81
28:Z1:402:GLY:CA	30:b1:273:LYS:HB2	2.09	0.81
28:Z1:410:ASN:HD21	30:b1:252:ALA:HB2	0.91	0.81
28:Z1:524:VAL:CB	30:b1:236:THR:CG2	2.32	0.81
28:Z1:537:THR:OG1	30:b1:163:ASP:O	1.98	0.81
28:Z2:438:GLU:CG	30:b2:333:HIS:CE1	2.63	0.81
2:A2:781:ARG:HG3	6:D1:673:ARG:CB	2.10	0.81
1:A3:1201:ARG:N	2:A4:729:SER:C	2.34	0.81
2:A4:874:VAL:O	6:D3:567:LEU:HB2	1.78	0.81
2:A4:876:ARG:HD2	6:D3:558:LYS:CB	2.08	0.81
2:A4:1143:LEU:HD11	3:A6:134:VAL:N	1.81	0.81
11:I1:984:GLU:HG3	15:M1:618:GLN:H	1.45	0.81
11:I1:1543:LEU:HD13	11:I2:1677:LYS:HE2	1.61	0.81
11:I2:896:PRO:N	17:O3:233:THR:C	2.39	0.81
11:I2:945:LEU:HD11	17:O3:258:GLU:HB2	0.83	0.81
11:I2:980:ILE:CD1	20:R3:147:LEU:HA	2.09	0.81
11:I5:1279:THR:HG23	26:X2:520:GLU:CA	2.10	0.81
17:O4:110:LEU:CD2	18:P4:321:ILE:N	1.84	0.81
21:S4:1143:VAL:HA	21:S4:1146:ALA:HB3	1.63	0.81
28:Z2:447:GLU:OE1	30:b2:250:GLY:HA2	1.81	0.81
28:Z4:561:GLN:CB	30:b4:236:THR:C	2.53	0.81
2:A2:970:PHE:CG	6:D1:192:TYR:OH	2.33	0.81
2:A2:1134:GLU:HG3	3:A5:146:LYS:HG2	1.62	0.81
1:A3:1090:SER:OG	6:D3:804:SER:HB2	1.79	0.81
3:A6:1364:GLN:HB2	28:Z4:846:SER:HA	1.57	0.81
8:F1:1205:TRP:NE1	17:O2:254:ARG:HD2	1.95	0.81
9:G1:253:SER:HB2	15:M2:605:THR:CG2	2.10	0.81
11:I1:881:ILE:HD11	17:O1:253:LEU:CG	2.11	0.81
11:I1:957:SER:HB2	20:R1:168:LEU:CG	2.11	0.81
11:I1:1048:GLU:HA	20:R1:143:PHE:CE1	2.15	0.81
11:I1:1113:LEU:C	16:N1:435:ALA:HB1	2.05	0.81
11:I2:1034:ASP:O	16:N3:441:PHE:CE2	2.32	0.81
11:I2:1039:ALA:HB3	20:R3:170:LEU:HG	0.89	0.81
11:I3:1278:ALA:C	26:X1:520:GLU:CA	2.52	0.81
21:S3:1036:ILE:HD12	21:S3:1073:ILE:HG22	1.62	0.81
26:X3:156:GLU:OE2	26:X3:214:ARG:NH1	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:438:GLU:CG	30:b1:333:HIS:CE1	2.63	0.81
28:Z1:522:ASN:H	30:b1:241:PRO:HG3	1.16	0.81
2:A2:974:PRO:HD3	6:D1:205:LEU:HG	1.60	0.81
2:A2:1121:LEU:O	3:A5:133:LYS:HG2	1.80	0.81
2:A4:1135:ARG:CG	3:A6:160:ILE:CD1	2.58	0.81
11:I1:925:LEU:HA	15:M1:596:ILE:HB	1.61	0.81
11:I1:1027:ALA:HB3	20:R1:172:ASP:CG	2.06	0.81
11:I1:1052:LEU:CD2	16:N1:434:LEU:HD12	2.11	0.81
11:I2:899:LEU:HD11	17:O3:234:LEU:N	1.94	0.81
11:I2:976:ARG:NH1	20:R3:147:LEU:N	2.28	0.81
11:I2:1017:VAL:HG21	17:O3:260:LEU:CD1	2.07	0.81
21:S1:1143:VAL:HA	21:S1:1146:ALA:HB3	1.63	0.81
21:S3:1143:VAL:HA	21:S3:1146:ALA:HB3	1.63	0.81
28:Z1:410:ASN:HB3	30:b1:251:ILE:HD12	1.55	0.81
28:Z1:523:ASP:O	30:b1:208:ASN:OD1	1.81	0.81
2:A2:980:ARG:HE	6:D1:525:ARG:CA	1.90	0.81
2:A2:982:THR:HB	6:D1:494:LEU:HA	1.63	0.81
1:A3:1021:LEU:CD1	6:D3:816:VAL:CA	2.49	0.81
1:A3:1091:VAL:CG2	6:D3:808:ASN:HB2	2.10	0.81
1:A3:1220:PRO:CB	2:A4:732:GLN:OE1	2.29	0.81
2:A4:1150:LEU:HG	5:C4:731:LYS:HA	1.62	0.81
3:A5:1376:LEU:CD1	28:Z2:810:ASP:CB	2.59	0.81
3:A6:232:LEU:HD21	5:C4:740:ARG:N	1.96	0.81
6:D1:301:LEU:HD12	6:D1:301:LEU:O	1.81	0.81
9:G1:263:MET:HE2	16:N2:411:GLN:HG2	1.63	0.81
11:I1:877:ILE:HG21	17:O1:253:LEU:C	2.05	0.81
11:I1:925:LEU:C	15:M1:597:LYS:HG3	2.06	0.81
11:I1:945:LEU:HG	17:O1:258:GLU:H	1.42	0.81
11:I1:1059:PRO:HD3	17:O1:276:GLY:C	2.02	0.81
11:I1:1108:PRO:HG2	16:N1:443:GLU:H	1.43	0.81
11:I2:833:PHE:O	17:O3:241:SER:CB	2.29	0.81
11:I2:964:SER:O	20:R3:153:GLN:CD	2.24	0.81
17:O4:107:THR:HG22	18:P4:321:ILE:CD1	1.99	0.81
21:S1:1036:ILE:HD12	21:S1:1073:ILE:HG22	1.62	0.81
28:Z2:535:ILE:CG1	30:b2:182:PRO:HB3	1.97	0.81
28:Z4:531:LYS:HZ3	30:b4:166:LEU:CB	1.93	0.81
2:A2:825:ARG:HH12	6:D1:679:ILE:HD11	1.46	0.80
2:A2:965:LYS:HE2	6:D1:196:ILE:O	1.81	0.80
2:A2:1143:LEU:HD11	3:A5:131:PRO:HB3	0.86	0.80
3:A6:1300:LEU:HD23	28:Z4:875:LEU:CB	2.11	0.80
4:B6:345:LYS:HB3	5:C4:737:LYS:HE3	0.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:927:HIS:CD2	15:M1:594:LYS:CG	2.63	0.80
11:I1:945:LEU:CD2	17:O1:258:GLU:CA	2.60	0.80
11:I1:985:ARG:HH11	20:R1:151:LYS:HE3	1.46	0.80
11:I2:1046:HIS:N	17:O3:280:GLU:CB	2.44	0.80
11:I3:1275:SER:CA	26:X1:522:MET:CB	2.57	0.80
21:S2:1143:VAL:HA	21:S2:1146:ALA:HB3	1.63	0.80
23:U4:314:ILE:HG22	23:U4:315:LEU:HG	1.63	0.80
28:Z1:406:ARG:CG	30:b1:252:ALA:CB	2.58	0.80
28:Z4:447:GLU:OE1	30:b4:250:GLY:HA2	1.81	0.80
1:A1:870:HIS:CB	6:D3:279:HIS:HB3	2.05	0.80
1:A1:1399:ARG:HH21	2:A2:885:LEU:C	1.75	0.80
2:A2:988:ARG:HH22	6:D1:498:GLU:C	1.89	0.80
2:A4:235:TYR:CZ	4:B4:347:LEU:HD12	2.17	0.80
2:A4:985:ALA:CB	6:D3:496:LEU:O	2.28	0.80
2:A4:1135:ARG:H	3:A6:145:THR:HB	0.67	0.80
2:A4:1161:ALA:HB3	3:A6:137:HIS:CE1	2.16	0.80
11:I1:896:PRO:CD	17:O1:233:THR:HA	2.10	0.80
11:I1:1035:GLN:N	15:M1:627:LEU:HD23	1.93	0.80
11:I1:1104:LEU:HD21	16:N1:433:GLU:HG3	1.48	0.80
11:I2:921:GLU:H	15:M3:592:LEU:CG	1.74	0.80
11:I2:981:VAL:N	20:R3:147:LEU:CG	2.45	0.80
11:I2:982:GLN:HB3	15:M3:621:ARG:NH1	1.95	0.80
11:I3:1270:LYS:CA	26:X1:529:TRP:N	2.45	0.80
11:I4:1269:ARG:C	26:X3:528:GLU:CA	1.82	0.80
11:I4:1370:VAL:HG22	12:J4:259:THR:HG21	1.61	0.80
11:I5:1279:THR:CG2	26:X2:520:GLU:CA	2.58	0.80
15:M3:483:LYS:HZ3	16:N4:327:LYS:HE3	1.44	0.80
17:O4:110:LEU:C	18:P1:278:ASN:HD22	1.89	0.80
26:X4:156:GLU:OE2	26:X4:214:ARG:NH1	2.13	0.80
28:Z3:400:LYS:O	30:b3:252:ALA:HA	1.80	0.80
28:Z3:447:GLU:OE1	30:b3:250:GLY:HA2	1.81	0.80
2:A2:977:VAL:C	6:D1:496:LEU:CD1	2.50	0.80
2:A2:987:LYS:CD	6:D1:555:ARG:CZ	2.59	0.80
2:A2:1055:ARG:N	6:D2:762:ARG:HB3	1.95	0.80
2:A4:826:ASN:ND2	6:D3:633:LYS:CB	2.43	0.80
3:A5:1367:THR:C	28:Z2:825:TYR:O	2.24	0.80
3:A5:1391:ARG:HA	28:Z2:871:HIS:CB	2.09	0.80
3:A5:1398:LYS:HB2	28:Z2:873:LEU:O	1.78	0.80
9:G1:253:SER:OG	15:M2:601:ASP:CG	2.24	0.80
11:I1:947:LEU:O	16:N1:407:ALA:HB3	1.82	0.80
11:I1:984:GLU:HG3	15:M1:618:GLN:N	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1109:LEU:CB	16:N1:441:PHE:CG	2.56	0.80
11:I2:880:MET:CA	17:O3:246:LEU:O	2.30	0.80
11:I2:895:ARG:CD	17:O3:234:LEU:CD1	2.60	0.80
11:I2:944:GLU:C	17:O3:256:TYR:HA	2.06	0.80
11:I2:945:LEU:C	17:O3:260:LEU:H	1.90	0.80
11:I2:1050:SER:O	17:O3:286:ILE:O	1.99	0.80
11:I4:1276:GLN:O	26:X3:519:ILE:CA	2.29	0.80
1:A1:1201:ARG:HD2	2:A2:734:LEU:HB3	1.61	0.80
2:A2:872:ALA:HB2	6:D1:565:MET:HE3	1.61	0.80
2:A2:1155:ASN:O	3:A5:175:GLU:CG	2.29	0.80
2:A2:1163:TYR:N	4:B5:342:ARG:HG3	1.94	0.80
2:A4:970:PHE:HA	6:D3:192:TYR:CZ	2.17	0.80
3:A5:1029:ILE:CG2	11:I5:69:GLY:C	2.08	0.80
3:A6:233:THR:HA	5:C4:737:LYS:HB2	1.62	0.80
3:A6:1312:ARG:HH21	28:Z4:829:SER:CA	1.91	0.80
3:A6:1368:GLN:CB	28:Z4:848:SER:CB	2.59	0.80
3:A6:1387:ILE:O	28:Z4:866:GLU:C	2.25	0.80
3:A6:1390:LEU:CB	28:Z4:867:LYS:N	2.45	0.80
8:F2:1091:SER:C	17:O4:244:GLU:HB3	2.05	0.80
11:I1:833:PHE:CD2	17:O1:241:SER:CB	2.60	0.80
11:I1:849:LEU:HD13	17:O1:247:TRP:HE3	1.42	0.80
11:I1:1043:LEU:HG	20:R1:170:LEU:HD13	1.63	0.80
11:I1:1066:LEU:CA	16:N1:430:ARG:HG2	2.11	0.80
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB1	1.63	0.80
11:I1:1667:GLN:HG2	11:I2:1665:LEU:HG	0.82	0.80
11:I2:925:LEU:HD11	20:R3:156:GLY:HA2	1.63	0.80
11:I2:995:SER:OG	17:O3:271:GLU:OE1	2.00	0.80
11:I2:1050:SER:C	17:O3:290:TYR:HB2	2.05	0.80
11:I3:815:ILE:CG2	26:X1:497:ARG:HB3	2.11	0.80
11:I3:1273:GLU:HB3	26:X1:526:CYS:C	2.07	0.80
11:I4:1274:HIS:CE1	26:X3:531:LEU:CD1	2.59	0.80
28:Z1:411:LEU:HG	30:b1:251:ILE:HG12	1.64	0.80
28:Z1:411:LEU:CA	30:b1:251:ILE:HD13	2.11	0.80
28:Z3:523:ASP:OD2	30:b3:239:THR:HG23	1.80	0.80
28:Z4:531:LYS:CD	30:b4:183:LEU:CA	2.36	0.80
1:A1:1224:PRO:HD3	2:A2:731:ILE:CB	2.08	0.80
2:A2:1138:GLU:HG2	3:A5:167:TRP:CZ2	2.15	0.80
2:A4:876:ARG:HA	6:D3:564:ASN:CG	1.73	0.80
3:A6:220:VAL:CG1	5:C4:738:ASP:C	2.38	0.80
3:A6:233:THR:HA	5:C4:737:LYS:N	1.68	0.80
11:I1:934:LEU:CB	15:M1:602:MET:HE3	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1023:ASP:CG	16:N1:405:ALA:HB1	2.05	0.80
11:I1:1071:LEU:N	16:N1:429:GLU:HG2	1.93	0.80
11:I2:898:VAL:HG21	17:O3:237:PRO:CD	2.12	0.80
11:I2:947:LEU:HD21	16:N3:411:GLN:HG3	1.58	0.80
11:I2:1029:LEU:HD21	20:R3:170:LEU:HD23	1.62	0.80
11:I2:1031:ALA:N	20:R3:173:LEU:N	2.29	0.80
11:I3:1271:GLU:OE2	26:X1:504:ILE:HD12	1.81	0.80
11:I4:1272:TYR:CA	26:X3:525:ILE:HG12	2.11	0.80
21:S2:176:MET:HE1	21:S2:232:LEU:CD1	2.12	0.80
28:Z1:561:GLN:CG	30:b1:235:LEU:C	2.55	0.80
28:Z2:402:GLY:O	30:b2:273:LYS:HB3	1.82	0.80
28:Z3:561:GLN:CG	30:b3:235:LEU:C	2.55	0.80
28:Z4:523:ASP:OD2	30:b4:239:THR:CG2	2.30	0.80
2:A2:1125:LEU:HD12	3:A5:133:LYS:N	1.97	0.80
1:A3:1052:THR:HG23	6:D3:816:VAL:CG2	2.05	0.80
3:A6:777:LEU:CD1	3:A6:822:ILE:HD11	2.12	0.80
3:A6:1361:ARG:HH12	28:Z4:879:PHE:CB	1.95	0.80
9:G1:258:LYS:H	17:O2:253:LEU:N	1.80	0.80
11:I1:923:GLY:CA	15:M1:589:GLY:O	2.29	0.80
11:I1:950:LEU:CD1	16:N1:410:MET:HB3	2.11	0.80
11:I1:983:LEU:O	15:M1:617:THR:CG2	2.28	0.80
11:I1:1110:SER:H	16:N1:437:VAL:C	1.90	0.80
11:I2:979:ALA:HB2	20:R3:167:GLN:NE2	1.97	0.80
11:I2:1032:THR:O	20:R3:173:LEU:HG	1.81	0.80
11:I4:1274:HIS:CE1	26:X3:529:TRP:CA	2.64	0.80
11:I4:1274:HIS:NE2	26:X3:526:CYS:O	1.82	0.80
28:Z2:561:GLN:CG	30:b2:235:LEU:C	2.55	0.80
1:A1:868:GLN:O	6:D3:277:ASN:N	2.15	0.80
2:A2:1126:VAL:O	3:A5:137:HIS:C	2.24	0.80
2:A2:1151:THR:N	5:C2:733:LEU:HA	1.95	0.80
2:A2:1164:TYR:N	4:B5:342:ARG:CG	2.43	0.80
1:A3:777:LEU:CD1	1:A3:822:ILE:HD11	2.12	0.80
9:G1:258:LYS:N	17:O2:253:LEU:N	2.28	0.80
11:I1:828:VAL:O	17:O1:237:PRO:HG2	1.81	0.80
11:I1:945:LEU:HG	17:O1:257:ALA:N	1.97	0.80
11:I1:1054:ILE:H	17:O1:282:LYS:HB2	1.45	0.80
11:I2:797:LEU:HD12	17:O3:248:SER:OG	1.80	0.80
11:I2:882:LYS:HG3	17:O3:249:ARG:HA	1.62	0.80
21:S2:1097:LYS:HZ3	21:S2:1101:PHE:HE1	1.26	0.80
21:S3:293:ASN:HB2	21:S3:310:TRP:O	1.81	0.80
21:S4:293:ASN:HB2	21:S4:310:TRP:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1097:LYS:HZ3	21:S4:1101:PHE:HE1	1.30	0.80
28:Z1:402:GLY:O	30:b1:273:LYS:HB3	1.82	0.80
28:Z1:447:GLU:OE1	30:b1:250:GLY:HA2	1.81	0.80
28:Z3:402:GLY:O	30:b3:273:LYS:HB3	1.82	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
3:A5:1151:THR:CA	5:C5:733:LEU:CD1	2.57	0.80
3:A5:1369:ILE:CG1	28:Z2:832:PHE:N	2.44	0.80
3:A6:190:ALA:HB2	5:C4:748:ASN:ND2	1.96	0.80
3:A6:1394:VAL:CG1	28:Z4:869:HIS:C	2.52	0.80
11:I1:1063:GLN:C	16:N1:428:ASP:CB	2.53	0.80
11:I2:890:TYR:CG	17:O3:238:ALA:O	2.33	0.80
11:I2:891:LEU:HD12	16:N3:393:ILE:HD12	0.80	0.80
11:I2:942:HIS:CA	17:O3:259:ASP:O	2.29	0.80
11:I2:1034:ASP:CG	15:M3:630:LEU:HD13	2.05	0.80
11:I2:1054:ILE:C	17:O3:281:ALA:CB	2.54	0.80
17:O3:101:ASN:CB	18:P3:326:GLN:NE2	1.95	0.80
21:S1:293:ASN:HB2	21:S1:310:TRP:O	1.81	0.80
21:S1:938:LEU:HD22	22:T1:905:ARG:HG3	1.64	0.80
21:S2:1036:ILE:HD12	21:S2:1073:ILE:HG22	1.62	0.80
21:S3:938:LEU:HD22	22:T3:905:ARG:HG3	1.64	0.80
28:Z1:561:GLN:CB	30:b1:236:THR:C	2.53	0.80
28:Z4:402:GLY:CA	30:b4:273:LYS:HB2	2.09	0.80
28:Z4:537:THR:OG1	30:b4:163:ASP:O	1.98	0.80
1:A1:878:LEU:HD12	6:D3:276:GLY:HA2	1.63	0.80
1:A1:1399:ARG:CG	2:A2:884:ARG:CB	2.54	0.80
2:A2:874:VAL:N	6:D1:568:ARG:CA	2.41	0.80
2:A2:875:LEU:HD23	6:D1:567:LEU:N	1.96	0.80
2:A2:1122:LEU:O	3:A5:136:GLU:CG	2.28	0.80
2:A2:1159:ASP:CB	3:A5:175:GLU:CG	2.59	0.80
2:A4:976:LEU:CG	6:D3:472:PHE:CD2	2.65	0.80
3:A6:1362:ALA:CB	28:Z4:874:ASN:N	2.44	0.80
6:D7:301:LEU:HD12	6:D7:301:LEU:O	1.81	0.80
8:F1:1265:GLN:CD	17:O2:258:GLU:O	2.24	0.80
11:I1:1669:ARG:HB2	11:I2:1664:PHE:HE1	1.02	0.80
11:I2:834:SER:CA	17:O3:237:PRO:O	2.29	0.80
11:I2:948:ALA:O	17:O3:253:LEU:HB3	1.81	0.80
28:Z3:411:LEU:HG	30:b3:251:ILE:HG12	1.64	0.80
1:A1:1400:SER:OG	2:A2:885:LEU:HD21	1.82	0.80
2:A2:979:GLY:HA3	6:D1:473:GLU:CA	2.09	0.80
2:A2:1125:LEU:H	3:A5:133:LYS:CA	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1201:ARG:HB2	2:A4:735:ALA:HB2	1.63	0.80
3:A6:175:GLU:HB3	5:C4:733:LEU:CD1	2.11	0.80
3:A6:1358:LEU:O	28:Z4:875:LEU:N	2.15	0.80
3:A6:1359:LEU:HD23	28:Z4:873:LEU:CB	2.12	0.80
6:D3:301:LEU:HD12	6:D3:301:LEU:O	1.81	0.80
11:I1:884:LEU:CD2	17:O1:246:LEU:HD13	2.07	0.80
11:I1:931:VAL:HG23	15:M1:604:ASN:H	1.46	0.80
11:I1:976:ARG:NH2	15:M1:622:VAL:CB	2.43	0.80
11:I1:985:ARG:CA	15:M1:613:ASP:OD1	2.20	0.80
11:I1:1029:LEU:C	20:R1:172:ASP:O	2.25	0.80
11:I2:837:MET:HA	17:O3:244:GLU:N	1.95	0.80
11:I2:847:THR:HG23	15:M3:594:LYS:HZ3	1.47	0.80
11:I2:977:ASN:CB	20:R3:147:LEU:HA	2.05	0.80
11:I2:1066:LEU:H	16:N3:430:ARG:HE	1.31	0.80
11:I3:815:ILE:CG2	26:X1:497:ARG:N	2.43	0.80
17:O3:101:ASN:HB3	18:P3:326:GLN:HE21	0.65	0.80
17:O4:109:PRO:CD	18:P4:318:PRO:CG	2.58	0.80
17:O4:111:TYR:H	18:P1:278:ASN:HB3	1.47	0.80
21:S2:938:LEU:HD22	22:T2:905:ARG:HG3	1.64	0.80
28:Z3:523:ASP:OD2	30:b3:239:THR:CG2	2.30	0.80
28:Z3:527:SER:CA	30:b3:204:GLU:OE1	2.12	0.80
2:A2:870:HIS:HE2	6:D1:551:PHE:C	1.89	0.79
1:A3:1201:ARG:HB3	2:A4:735:ALA:CA	2.11	0.79
2:A4:967:GLU:O	6:D3:202:GLN:CG	2.15	0.79
2:A4:983:LEU:HD13	6:D3:497:PHE:CE2	2.16	0.79
2:A4:1136:LYS:CE	3:A6:139:ASN:C	2.55	0.79
3:A5:1024:ASP:HB2	11:I5:94:GLU:C	2.06	0.79
3:A5:1392:ARG:HG3	28:Z2:866:GLU:O	1.82	0.79
3:A6:1384:ALA:O	28:Z4:863:ASP:CB	2.30	0.79
11:I1:881:ILE:HG13	17:O1:249:ARG:C	2.06	0.79
11:I1:1038:ILE:C	15:M1:620:VAL:HG22	2.06	0.79
11:I2:894:VAL:HB	17:O3:239:GLN:CA	2.12	0.79
11:I2:942:HIS:CB	17:O3:259:ASP:CA	2.46	0.79
11:I2:955:LYS:HZ3	17:O3:249:ARG:NH2	1.78	0.79
11:I2:968:PRO:CD	20:R3:153:GLN:CB	2.31	0.79
11:I2:1046:HIS:HB2	17:O3:280:GLU:C	2.07	0.79
11:I2:1106:LYS:HA	16:N3:439:ARG:HH12	0.99	0.79
11:I5:535:ASP:C	25:W2:8:HIS:N	2.39	0.79
28:Z1:561:GLN:HG2	30:b1:235:LEU:CD2	2.07	0.79
28:Z2:411:LEU:HG	30:b2:251:ILE:HG12	1.64	0.79
2:A2:874:VAL:HG21	6:D1:571:SER:OG	1.69	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:970:PHE:CA	6:D1:192:TYR:CE2	2.61	0.79
2:A2:970:PHE:CG	6:D1:196:ILE:HD11	2.18	0.79
1:A3:1086:LYS:CB	6:D3:798:MET:HA	2.11	0.79
2:A4:823:VAL:HA	2:A4:856:PHE:HE1	0.73	0.79
2:A4:982:THR:HB	6:D3:494:LEU:C	2.07	0.79
2:A4:1154:PHE:HB3	3:A6:175:GLU:CB	2.12	0.79
3:A5:1376:LEU:H	28:Z2:814:THR:CB	1.94	0.79
3:A5:1395:LYS:CE	28:Z2:872:TYR:H	1.95	0.79
3:A6:1363:ASP:OD1	28:Z4:869:HIS:CA	2.29	0.79
3:A6:1415:PHE:O	28:Z4:978:ALA:HB1	0.97	0.79
11:I1:955:LYS:HE2	16:N1:396:ILE:O	1.83	0.79
11:I1:1029:LEU:HD22	20:R1:174:ARG:CG	2.12	0.79
26:X4:155:LEU:O	26:X4:159:ILE:HG13	1.82	0.79
28:Z3:537:THR:OG1	30:b3:163:ASP:O	1.98	0.79
2:A2:235:TYR:CZ	4:B2:347:LEU:HD12	2.17	0.79
2:A2:868:GLN:HE21	6:D1:608:ILE:C	1.54	0.79
2:A2:874:VAL:CG2	6:D1:611:LYS:CG	2.56	0.79
1:A3:1098:ARG:NH2	11:I2:1421:ARG:HH21	1.81	0.79
2:A4:1138:GLU:HA	3:A6:147:LEU:HD11	1.63	0.79
3:A5:229:SER:HA	5:C2:739:MET:HE3	1.62	0.79
3:A6:1151:THR:CA	5:C6:733:LEU:CD1	2.57	0.79
3:A6:1390:LEU:HB3	28:Z4:867:LYS:CA	2.11	0.79
6:D6:301:LEU:HD12	6:D6:301:LEU:O	1.81	0.79
11:I1:880:MET:HB2	17:O1:250:LEU:H	1.44	0.79
11:I1:955:LYS:N	16:N1:403:VAL:HG23	1.95	0.79
11:I1:1048:GLU:CD	20:R1:143:PHE:HB2	2.08	0.79
11:I2:841:PHE:O	15:M3:591:ASP:HB2	1.82	0.79
11:I2:890:TYR:HD1	17:O3:241:SER:H	1.29	0.79
11:I2:982:GLN:HB3	15:M3:621:ARG:NH2	1.96	0.79
28:Z2:407:GLY:C	30:b2:251:ILE:HD11	2.04	0.79
2:A2:868:GLN:O	6:D1:598:ILE:CB	2.30	0.79
1:A3:1054:SER:CA	6:D3:809:ALA:CB	2.55	0.79
2:A4:969:ASP:O	6:D3:192:TYR:CE2	2.36	0.79
2:A4:1162:ASN:N	3:A6:180:GLU:OE2	2.16	0.79
3:A5:232:LEU:O	5:C2:740:ARG:CZ	2.29	0.79
3:A5:1367:THR:CG2	28:Z2:844:CYS:O	2.29	0.79
6:D5:301:LEU:HD12	6:D5:301:LEU:O	1.81	0.79
9:G1:255:LEU:N	15:M2:602:MET:HB3	1.95	0.79
9:G1:258:LYS:HZ1	16:N2:408:MET:HG3	1.47	0.79
11:I1:874:LEU:CD2	17:O1:252:VAL:CG1	2.58	0.79
11:I1:877:ILE:CG1	17:O1:251:ILE:O	2.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:916:ALA:CA	15:M1:586:ASP:HA	2.13	0.79
11:I1:919:ALA:HB1	16:N1:393:ILE:HG13	1.64	0.79
11:I1:1060:PHE:CD2	17:O1:279:ILE:HD13	2.16	0.79
11:I1:1668:HIS:HB3	11:I2:1668:HIS:O	1.82	0.79
11:I2:987:GLY:H	15:M3:613:ASP:CB	1.91	0.79
11:I2:1110:SER:CB	16:N3:435:ALA:CA	2.57	0.79
11:I4:1271:GLU:HA	26:X3:529:TRP:HD1	0.62	0.79
11:I4:1277:LEU:CD1	26:X3:521:TRP:HE3	1.92	0.79
18:P1:276:SER:HB2	18:P4:322:LYS:HE3	0.80	0.79
28:Z1:523:ASP:HB3	30:b1:238:ASN:HA	1.54	0.79
28:Z2:524:VAL:CG1	30:b2:236:THR:HG21	2.07	0.79
28:Z2:531:LYS:HD2	30:b2:182:PRO:C	2.05	0.79
2:A4:908:LEU:CG	6:D3:601:PHE:O	2.30	0.79
2:A4:909:LYS:O	6:D3:556:ASP:OD1	2.00	0.79
3:A5:777:LEU:CD1	3:A5:822:ILE:HD11	2.12	0.79
3:A6:1401:VAL:CB	28:Z4:919:PHE:HA	2.13	0.79
8:F1:1137:GLN:HA	17:O2:248:SER:HB3	0.80	0.79
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD21	2.11	0.79
11:I1:1609:GLY:CA	12:J2:295:TYR:HE1	1.94	0.79
11:I1:1739:GLU:CB	11:I2:1540:LYS:HE2	2.12	0.79
11:I3:1270:LYS:HZ3	26:X1:530:ARG:HG2	1.44	0.79
11:I5:1236:TYR:HD1	29:a2:24[B]:GLY:O	1.60	0.79
21:S4:176:MET:HE1	21:S4:232:LEU:CD1	2.12	0.79
26:X1:155:LEU:O	26:X1:159:ILE:HG13	1.82	0.79
28:Z2:411:LEU:CA	30:b2:251:ILE:HD13	2.11	0.79
28:Z2:523:ASP:OD2	30:b2:239:THR:CG2	2.30	0.79
2:A2:823:VAL:HA	2:A2:856:PHE:HE1	0.73	0.79
3:A5:230:LYS:CA	5:C2:736:ASN:ND2	2.42	0.79
3:A5:1312:ARG:CD	28:Z2:832:PHE:O	2.19	0.79
3:A5:1403:MSE:CB	28:Z2:920:SER:N	2.32	0.79
3:A6:1395:LYS:HB3	28:Z4:889:LEU:C	2.08	0.79
3:A6:1395:LYS:CB	28:Z4:889:LEU:C	2.55	0.79
11:I1:840:LEU:CB	17:O1:243:LEU:CB	2.60	0.79
11:I1:934:LEU:C	15:M1:605:THR:OG1	2.22	0.79
11:I1:947:LEU:CG	16:N1:408:MET:HA	2.13	0.79
11:I1:1041:GLN:H	15:M1:620:VAL:CG2	1.95	0.79
11:I2:950:LEU:CD2	16:N3:410:MET:HE3	2.12	0.79
11:I2:1031:ALA:O	20:R3:173:LEU:CA	2.22	0.79
11:I2:1052:LEU:HD21	16:N3:434:LEU:CD1	2.10	0.79
11:I2:1061:ASP:HB2	17:O3:278:GLU:CB	2.11	0.79
11:I2:1105:TRP:CG	16:N3:432:TYR:HH	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1279:THR:HG21	26:X3:523:LEU:N	1.97	0.79
21:S1:176:MET:HE1	21:S1:232:LEU:CD1	2.12	0.79
23:U2:314:ILE:HG22	23:U2:315:LEU:HG	1.63	0.79
28:Z1:523:ASP:OD2	30:b1:239:THR:CG2	2.30	0.79
28:Z2:524:VAL:H	30:b2:238:ASN:CA	1.96	0.79
2:A2:780:GLU:HG2	6:D1:678:GLY:O	1.82	0.79
2:A2:864:ARG:NH1	6:D1:610:ASN:CG	2.40	0.79
2:A2:868:GLN:HB2	6:D1:598:ILE:CD1	2.12	0.79
2:A2:874:VAL:CG1	6:D1:611:LYS:HG2	2.12	0.79
2:A2:974:PRO:N	6:D1:205:LEU:HD23	1.98	0.79
2:A4:867:GLU:CD	6:D3:593:ARG:NH2	2.38	0.79
2:A4:1122:LEU:HB2	3:A6:132:ASP:C	2.07	0.79
2:A4:1138:GLU:OE1	3:A6:147:LEU:CA	2.15	0.79
3:A5:996:ASN:CB	11:I5:56:ARG:O	2.28	0.79
3:A5:1310:ARG:HH21	28:Z2:827:GLN:CA	1.95	0.79
3:A6:157:TRP:CZ2	5:C4:747:PRO:CA	2.66	0.79
9:G1:262:SER:CB	17:O2:256:TYR:OH	2.31	0.79
11:I1:983:LEU:HD12	15:M1:621:ARG:NH2	1.98	0.79
11:I2:938:CYS:O	17:O3:261:LYS:O	2.01	0.79
11:I2:1035:GLN:HA	15:M3:626:HIS:CB	2.12	0.79
11:I2:1109:LEU:HB2	17:O3:290:TYR:HE2	0.62	0.79
11:I2:1110:SER:HB3	16:N3:435:ALA:CA	1.97	0.79
11:I4:1270:LYS:N	26:X3:528:GLU:CG	2.45	0.79
28:Z1:531:LYS:HZ1	30:b1:166:LEU:HB3	1.45	0.79
28:Z1:535:ILE:CG1	30:b1:182:PRO:HB3	1.97	0.79
28:Z3:401:THR:HA	30:b3:252:ALA:C	2.08	0.79
2:A4:909:LYS:CG	6:D3:555:ARG:HH11	1.82	0.79
2:A4:977:VAL:C	6:D3:492:VAL:HG12	2.07	0.79
3:A5:1368:GLN:HB2	28:Z2:841:ALA:CA	2.04	0.79
8:F2:1089:PRO:O	17:O4:245:GLU:CA	2.30	0.79
9:G1:263:MET:HB3	17:O2:260:LEU:HD22	1.64	0.79
11:I1:873:ILE:CG2	17:O1:254:ARG:CG	2.58	0.79
11:I1:945:LEU:HD21	17:O1:258:GLU:CA	2.13	0.79
11:I1:1043:LEU:HA	16:N1:430:ARG:HD2	1.64	0.79
11:I1:1049:LEU:N	15:M1:622:VAL:CG1	2.45	0.79
11:I2:834:SER:CB	17:O3:237:PRO:CA	2.14	0.79
11:I2:978:LYS:CE	20:R3:154:ALA:N	2.45	0.79
11:I2:1040:HIS:CG	16:N3:434:LEU:CD1	2.66	0.79
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG23	0.81	0.79
28:Z1:406:ARG:CG	30:b1:252:ALA:HB1	2.13	0.79
28:Z1:524:VAL:H	30:b1:238:ASN:CA	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:406:ARG:CG	30:b3:252:ALA:HB1	2.13	0.79
28:Z4:402:GLY:O	30:b4:273:LYS:HB3	1.82	0.79
1:A1:1221:ILE:N	2:A2:642:ARG:O	2.16	0.79
2:A2:979:GLY:C	6:D1:473:GLU:CD	2.51	0.79
2:A2:980:ARG:HA	6:D1:503:LEU:N	1.96	0.79
2:A2:1125:LEU:N	3:A5:133:LYS:HA	1.98	0.79
2:A2:1149:THR:CG2	3:A5:172:PRO:CG	2.58	0.79
1:A3:1048:ARG:NE	6:D3:819:ASN:HD21	1.79	0.79
2:A4:864:ARG:N	6:D3:607:PRO:HD2	1.97	0.79
2:A4:870:HIS:CD2	6:D3:566:PHE:HD1	2.00	0.79
2:A4:973:GLU:CG	6:D3:192:TYR:CE2	2.66	0.79
2:A4:975:GLU:C	6:D3:496:LEU:C	2.49	0.79
2:A4:1155:ASN:N	3:A6:175:GLU:CA	2.41	0.79
3:A5:156:ALA:O	5:C2:741:THR:OG1	2.00	0.79
3:A6:164:LEU:HD22	5:C4:742:ASP:OD2	1.83	0.79
11:I1:1052:LEU:CD1	15:M1:623:LEU:HD12	2.10	0.79
11:I2:947:LEU:HD22	17:O3:256:TYR:CZ	2.13	0.79
17:O3:155:VAL:HG21	18:P3:321:ILE:CG2	1.96	0.79
18:P2:320:GLN:HG3	18:P3:278:ASN:CG	2.08	0.79
21:S2:293:ASN:HB2	21:S2:310:TRP:O	1.81	0.79
28:Z3:402:GLY:CA	30:b3:273:LYS:HB2	2.09	0.79
28:Z3:524:VAL:H	30:b3:238:ASN:CA	1.96	0.79
28:Z4:561:GLN:CG	30:b4:235:LEU:C	2.55	0.79
1:A1:777:LEU:CD1	1:A1:822:ILE:HD11	2.12	0.79
2:A2:866:SER:H	6:D1:605:THR:CA	1.96	0.79
2:A4:875:LEU:CD1	6:D3:567:LEU:HD21	2.06	0.79
3:A5:996:ASN:CG	11:I5:57:GLU:N	2.14	0.79
3:A6:232:LEU:HD23	5:C4:738:ASP:N	1.97	0.79
3:A6:1331:GLU:CD	28:Z4:952:ASN:O	2.26	0.79
3:A6:1362:ALA:O	28:Z4:871:HIS:CB	2.32	0.79
6:D7:527:ASN:O	11:I3:181:GLN:HG3	1.79	0.79
8:F1:1137:GLN:CD	17:O2:249:ARG:CB	2.55	0.79
9:G1:256:GLN:N	17:O2:257:ALA:CB	2.46	0.79
11:I1:873:ILE:C	17:O1:251:ILE:CG2	2.54	0.79
11:I1:919:ALA:CB	16:N1:392:THR:HG1	1.94	0.79
11:I1:926:SER:N	15:M1:597:LYS:HG3	1.96	0.79
11:I1:1026:TYR:CZ	20:R1:175:GLN:CD	2.61	0.79
11:I2:1029:LEU:HD11	16:N3:433:GLU:CD	1.85	0.79
11:I2:1035:GLN:CA	15:M3:626:HIS:HB2	1.92	0.79
11:I2:1037:THR:CG2	20:R3:173:LEU:CD2	2.61	0.79
11:I2:1045:PHE:C	15:M3:619:ILE:HD11	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1272:TYR:C	26:X1:526:CYS:N	2.01	0.79
17:O4:107:THR:C	18:P4:318:PRO:HG3	2.08	0.79
17:O4:109:PRO:O	18:P1:278:ASN:ND2	2.15	0.79
21:S3:176:MET:HE1	21:S3:232:LEU:CD1	2.12	0.79
27:Y4:41:ASP:CB	29:a4:231[B]:HIS:HE1	1.86	0.79
28:Z1:555:LYS:HE3	30:b1:216:LEU:HD22	1.31	0.79
28:Z4:411:LEU:HG	30:b4:251:ILE:HG12	1.63	0.79
28:Z4:551:THR:CG2	30:b4:233:TRP:HZ3	1.52	0.79
2:A2:867:GLU:HB3	6:D1:609:ILE:CD1	2.12	0.78
1:A3:1090:SER:HB2	6:D3:800:PRO:HA	1.65	0.78
3:A6:233:THR:O	5:C4:738:ASP:HA	0.90	0.78
11:I1:919:ALA:O	15:M1:592:LEU:HB2	1.83	0.78
11:I1:952:LEU:C	16:N1:400:LEU:CD2	2.53	0.78
11:I1:980:ILE:C	15:M1:618:GLN:HA	2.09	0.78
11:I1:1672:VAL:C	11:I2:1611:PHE:C	2.51	0.78
11:I2:895:ARG:H	17:O3:239:GLN:CB	1.96	0.78
11:I2:920:PHE:HZ	17:O3:247:TRP:CZ3	2.01	0.78
18:P1:276:SER:HB2	18:P4:322:LYS:CD	2.09	0.78
27:Y1:41:ASP:HB2	29:a1:231[B]:HIS:CE1	2.18	0.78
1:A1:1204:TRP:CH2	2:A2:676:LEU:CD1	2.65	0.78
2:A4:1156:ASP:CA	3:A6:166:LEU:O	2.31	0.78
2:A4:1157:TYR:HB2	3:A6:133:LYS:HE2	1.65	0.78
3:A5:157:TRP:HB3	5:C2:742:ASP:O	1.83	0.78
3:A5:230:LYS:C	5:C2:736:ASN:ND2	2.42	0.78
3:A5:1313:LYS:HB2	28:Z2:830:LEU:C	2.08	0.78
3:A6:1411:ARG:N	26:X4:742:ALA:O	2.15	0.78
11:I1:873:ILE:O	17:O1:251:ILE:HG23	1.81	0.78
11:I1:911:PRO:C	15:M1:584:GLN:NE2	2.41	0.78
11:I1:952:LEU:C	16:N1:403:VAL:CB	2.56	0.78
11:I1:952:LEU:CG	16:N1:400:LEU:HD22	2.12	0.78
11:I1:984:GLU:HG3	15:M1:617:THR:HG22	1.64	0.78
11:I1:1104:LEU:CD1	16:N1:433:GLU:HA	2.06	0.78
11:I2:836:VAL:HG12	17:O3:244:GLU:CG	2.03	0.78
11:I2:1030:ARG:H	20:R3:172:ASP:C	1.89	0.78
23:U1:314:ILE:HG22	23:U1:315:LEU:HG	1.64	0.78
28:Z1:524:VAL:CG1	30:b1:236:THR:HG21	2.07	0.78
28:Z2:401:THR:HA	30:b2:252:ALA:C	2.08	0.78
28:Z2:534:ASP:OD2	30:b2:183:LEU:CG	2.32	0.78
1:A1:875:LEU:HD12	6:D3:276:GLY:O	1.82	0.78
1:A3:1017:THR:CB	6:D3:819:ASN:HB3	2.13	0.78
2:A4:875:LEU:O	6:D3:567:LEU:HD12	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:908:LEU:HD23	6:D3:601:PHE:C	2.07	0.78
2:A4:1114:ILE:CD1	5:C4:731:LYS:CB	2.58	0.78
2:A4:1155:ASN:CB	3:A6:175:GLU:O	2.32	0.78
3:A5:1406:GLY:N	28:Z2:918:PHE:N	2.30	0.78
8:F1:982:PRO:HB2	11:I1:1388:GLU:OE2	1.83	0.78
11:I1:984:GLU:OE2	15:M1:615:PRO:C	2.25	0.78
11:I1:994:ALA:H	17:O1:271:GLU:CG	1.89	0.78
11:I2:948:ALA:CB	17:O3:256:TYR:CA	2.61	0.78
11:I2:980:ILE:HD13	15:M3:622:VAL:HG23	0.82	0.78
11:I2:1036:PRO:CG	17:O3:287:LEU:HD21	2.14	0.78
11:I4:1267:LEU:HD22	26:X3:497:ARG:HE	1.47	0.78
21:S4:938:LEU:HD22	22:T4:905:ARG:HG3	1.64	0.78
24:V4:548:TYR:OH	25:W4:18:ASP:OD2	2.01	0.78
26:X3:155:LEU:O	26:X3:159:ILE:HG13	1.82	0.78
28:Z2:406:ARG:CG	30:b2:252:ALA:HB1	2.13	0.78
1:A3:1084:ARG:O	6:D3:797:GLY:CA	2.31	0.78
2:A4:867:GLU:N	6:D3:598:ILE:HG12	1.99	0.78
3:A5:166:LEU:CD2	5:C2:741:THR:O	2.24	0.78
3:A6:1069:SER:O	3:A6:1078:ARG:NH1	2.16	0.78
8:F1:1202:TYR:HD1	17:O2:252:VAL:CG2	1.97	0.78
11:I1:880:MET:C	17:O1:249:ARG:HB3	2.07	0.78
11:I1:894:VAL:HG21	17:O1:238:ALA:HB3	1.38	0.78
11:I1:931:VAL:HG13	15:M1:604:ASN:HB2	1.64	0.78
11:I1:984:GLU:HB2	15:M1:618:GLN:HG3	1.64	0.78
11:I2:1049:LEU:HA	15:M3:622:VAL:HG11	1.65	0.78
17:O4:111:TYR:CE2	18:P4:321:ILE:HD13	2.18	0.78
27:Y2:41:ASP:HB2	29:a2:231[B]:HIS:CE1	2.18	0.78
28:Z3:552:ASP:O	30:b3:233:TRP:CG	2.14	0.78
28:Z4:527:SER:CA	30:b4:204:GLU:OE1	2.12	0.78
2:A2:781:ARG:CD	6:D1:673:ARG:HH11	1.96	0.78
2:A4:879:LEU:CB	6:D3:564:ASN:CB	2.57	0.78
2:A4:1157:TYR:HB3	3:A6:133:LYS:HB3	1.66	0.78
9:G1:252:LEU:CD2	17:O2:254:ARG:HD3	2.13	0.78
11:I1:884:LEU:HD11	16:N1:400:LEU:HD11	1.64	0.78
11:I1:935:GLY:O	17:O1:261:LYS:NZ	2.15	0.78
11:I1:1604:ALA:N	11:I2:1739:GLU:O	1.91	0.78
11:I2:939:ASN:HA	17:O3:264:ILE:O	1.46	0.78
11:I2:1042:LEU:O	16:N3:430:ARG:NE	2.17	0.78
27:Y4:41:ASP:HB2	29:a4:231[B]:HIS:CE1	2.18	0.78
28:Z3:534:ASP:OD2	30:b3:183:LEU:CG	2.32	0.78
28:Z4:401:THR:HA	30:b4:252:ALA:C	2.08	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:544:MET:HE1	30:b4:181:TYR:HA	1.65	0.78
2:A2:1135:ARG:HA	3:A5:147:LEU:HD23	0.87	0.78
2:A4:872:ALA:HB3	6:D3:565:MET:HE1	1.66	0.78
2:A4:880:ALA:HA	6:D3:558:LYS:CE	2.13	0.78
2:A4:1161:ALA:CB	3:A6:165:PHE:CZ	2.43	0.78
3:A5:1374:ALA:HB3	28:Z2:824:PHE:CA	2.13	0.78
3:A6:1331:GLU:CD	28:Z4:952:ASN:C	2.51	0.78
3:A6:1393:THR:HA	28:Z4:905:LEU:N	1.99	0.78
3:A6:1405:LEU:HD22	28:Z4:921:THR:H	1.49	0.78
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CB	1.97	0.78
6:D7:527:ASN:O	11:I3:181:GLN:NE2	2.17	0.78
11:I1:884:LEU:HD12	16:N1:400:LEU:HD12	0.79	0.78
11:I1:895:ARG:NE	17:O1:233:THR:CB	2.40	0.78
11:I1:955:LYS:CE	16:N1:397:GLU:C	2.46	0.78
11:I1:955:LYS:HZ2	17:O1:249:ARG:NH2	1.80	0.78
11:I2:841:PHE:C	15:M3:591:ASP:CB	2.56	0.78
11:I2:841:PHE:HA	15:M3:591:ASP:CG	2.08	0.78
11:I2:966:TRP:CH2	20:R3:167:GLN:HG2	2.18	0.78
11:I2:1048:GLU:C	17:O3:287:LEU:HD23	2.07	0.78
11:I2:1051:LYS:HE3	17:O3:289:ASP:N	1.99	0.78
11:I5:1282:PHE:CZ	29:a2:23[B]:PRO:HG2	2.17	0.78
24:V2:548:TYR:OH	25:W2:18:ASP:OD2	2.01	0.78
26:X2:155:LEU:O	26:X2:159:ILE:HG13	1.82	0.78
28:Z2:561:GLN:HG2	30:b2:235:LEU:CD2	2.07	0.78
28:Z3:522:ASN:OD1	30:b3:241:PRO:HG3	1.84	0.78
28:Z4:411:LEU:CD2	30:b4:251:ILE:CG2	2.54	0.78
1:A3:1203:TYR:HB2	2:A4:730:THR:O	1.83	0.78
2:A4:861:GLN:CA	6:D3:606:LYS:NZ	2.46	0.78
2:A4:1161:ALA:HB1	3:A6:137:HIS:HE1	1.48	0.78
3:A5:1069:SER:O	3:A5:1078:ARG:NH1	2.16	0.78
3:A5:1376:LEU:HD13	28:Z2:807:ILE:O	1.84	0.78
8:F2:140:GLU:HB2	17:O4:237:PRO:HG2	1.41	0.78
11:I1:996:LEU:HD22	16:N1:410:MET:HE2	0.78	0.78
11:I2:874:LEU:O	17:O3:251:ILE:O	2.01	0.78
11:I2:886:LEU:HD12	17:O3:245:GLU:HB2	1.66	0.78
11:I2:966:TRP:HE3	20:R3:167:GLN:HB3	1.49	0.78
11:I4:1270:LYS:CE	26:X3:530:ARG:HG3	2.09	0.78
17:O3:158:GLU:HG2	18:P3:315:GLU:C	2.09	0.78
28:Z2:544:MET:HE1	30:b2:181:TYR:HA	1.65	0.78
28:Z3:524:VAL:N	30:b3:238:ASN:CB	2.03	0.78
28:Z3:557:CYS:O	30:b3:235:LEU:O	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:871:ASN:HA	6:D3:279:HIS:H	1.49	0.78
1:A1:873:PRO:HB2	6:D3:218:LYS:HZ3	0.67	0.78
2:A2:867:GLU:HG3	6:D1:593:ARG:NH2	1.97	0.78
2:A2:965:LYS:CE	6:D1:196:ILE:C	2.57	0.78
2:A2:989:MSE:HE3	6:D1:240:ASP:N	1.99	0.78
2:A4:1132:PRO:HG2	3:A6:145:THR:HA	1.64	0.78
2:A4:1139:ILE:CA	3:A6:130:ILE:CG2	2.60	0.78
2:A4:1154:PHE:C	3:A6:175:GLU:HB2	2.08	0.78
3:A5:777:LEU:HD12	3:A5:822:ILE:HD11	1.66	0.78
8:F1:1261:TYR:CD2	17:O2:259:ASP:CG	2.49	0.78
11:I1:981:VAL:HG13	20:R1:151:LYS:HB2	1.55	0.78
11:I2:890:TYR:HB2	17:O3:242:ARG:N	1.99	0.78
11:I2:921:GLU:O	15:M3:596:ILE:HB	1.83	0.78
11:I2:995:SER:CA	17:O3:267:ALA:CB	2.46	0.78
11:I2:1044:GLY:O	17:O3:280:GLU:CD	2.08	0.78
11:I3:1275:SER:HB3	26:X1:522:MET:O	1.82	0.78
18:P1:277:PRO:N	18:P4:322:LYS:HB3	1.99	0.78
28:Z1:527:SER:CA	30:b1:204:GLU:OE1	2.12	0.78
28:Z3:535:ILE:CG1	30:b3:182:PRO:HG3	2.13	0.78
28:Z4:522:ASN:N	30:b4:238:ASN:HB3	1.96	0.78
28:Z4:524:VAL:H	30:b4:238:ASN:CA	1.96	0.78
2:A2:780:GLU:C	6:D1:673:ARG:O	2.27	0.78
2:A2:867:GLU:HB2	6:D1:605:THR:HB	1.66	0.78
2:A4:873:PRO:CG	6:D3:572:GLU:CD	2.57	0.78
2:A4:1121:LEU:HD21	3:A6:133:LYS:HE3	1.65	0.78
3:A6:1351:MSE:CB	28:Z4:917:ASP:N	2.40	0.78
3:A6:1351:MSE:HE2	28:Z4:912:ASP:O	0.98	0.78
3:A6:1355:VAL:O	28:Z4:877:ILE:CB	2.32	0.78
5:C1:732:LYS:HZ2	11:I1:1225:LYS:HD2	0.90	0.78
11:I1:1611:PHE:CZ	11:I2:1669:ARG:NH1	2.51	0.78
11:I1:1665:LEU:CD1	11:I2:1667:GLN:HE21	1.94	0.78
11:I1:1735:PHE:O	11:I2:1607:GLN:OE1	2.02	0.78
11:I2:955:LYS:HA	16:N3:399:HIS:CA	2.05	0.78
11:I2:1014:ASN:CB	16:N3:413:VAL:O	2.30	0.78
11:I2:1046:HIS:N	17:O3:280:GLU:HB3	1.99	0.78
11:I2:1049:LEU:H	20:R3:146:LEU:HD12	1.47	0.78
11:I2:1059:PRO:CB	17:O3:275:LEU:N	2.40	0.78
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG22	1.60	0.78
17:O1:103:VAL:CG1	18:P1:326:GLN:NE2	2.39	0.78
23:U3:314:ILE:HG22	23:U3:315:LEU:HG	1.63	0.78
24:V3:548:TYR:OH	25:W3:18:ASP:OD2	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:544:MET:HE1	30:b2:181:TYR:CA	2.05	0.78
28:Z3:551:THR:CG2	30:b3:233:TRP:HZ3	1.52	0.78
1:A1:785:ILE:HD11	1:A1:825:ARG:HG2	1.66	0.78
2:A2:780:GLU:HB2	6:D1:677:GLN:CA	2.13	0.78
2:A4:171:HIS:NE2	6:D3:708:ASP:OD2	2.17	0.78
2:A4:827:ILE:C	2:A4:863:GLN:HB3	1.81	0.78
2:A4:970:PHE:CA	6:D3:192:TYR:OH	2.22	0.78
2:A4:974:PRO:CA	6:D3:499:LEU:CG	2.61	0.78
2:A4:982:THR:CB	6:D3:494:LEU:O	2.32	0.78
2:A4:982:THR:HB	6:D3:494:LEU:CA	2.14	0.78
3:A5:1033:GLN:HE21	11:I5:70:GLU:HB3	0.63	0.78
3:A6:1326:TRP:CD1	28:Z4:913:ILE:O	2.35	0.78
3:A6:1401:VAL:CG2	28:Z4:919:PHE:CB	2.62	0.78
11:I1:841:PHE:CE2	15:M1:588:MET:CE	2.66	0.78
11:I1:841:PHE:HB3	15:M1:588:MET:CB	2.13	0.78
11:I1:900:ARG:CG	17:O1:232:LYS:NZ	2.44	0.78
11:I2:880:MET:HG3	17:O3:251:ILE:HG13	1.64	0.78
11:I2:990:GLU:C	17:O3:272:SER:CA	2.57	0.78
11:I4:1272:TYR:O	26:X3:524:SER:OG	2.02	0.78
17:O3:154:ARG:HD2	18:P3:324:LEU:HD13	0.83	0.78
17:O3:162:LYS:HG3	18:P3:315:GLU:HB3	1.64	0.78
24:V4:416:ASP:HA	24:V4:443:THR:HG21	1.66	0.78
28:Z1:113:VAL:HG23	28:Z1:114:GLU:H	1.49	0.78
28:Z1:401:THR:HA	30:b1:252:ALA:C	2.08	0.78
28:Z2:401:THR:C	30:b2:254:SER:OG	2.25	0.78
28:Z2:552:ASP:O	30:b2:233:TRP:CG	2.14	0.78
28:Z4:406:ARG:CG	30:b4:252:ALA:HB1	2.13	0.78
28:Z4:411:LEU:CA	30:b4:251:ILE:HD13	2.11	0.78
28:Z4:522:ASN:OD1	30:b4:241:PRO:HG3	1.84	0.78
28:Z4:535:ILE:CG1	30:b4:182:PRO:HG3	2.13	0.78
2:A2:874:VAL:CG2	6:D1:571:SER:HB2	2.13	0.77
2:A2:971:ALA:O	6:D1:203:PRO:CB	2.32	0.77
2:A2:986:THR:OG1	6:D1:497:PHE:HE1	1.44	0.77
2:A4:988:ARG:HD2	6:D3:500:LYS:HG2	1.64	0.77
3:A5:157:TRP:HE1	5:C2:747:PRO:CA	1.97	0.77
3:A6:1351:MSE:HB3	28:Z4:917:ASP:C	1.78	0.77
3:A6:1366:LEU:CD1	28:Z4:868:GLN:C	2.55	0.77
5:C1:732:LYS:HG2	11:I1:1228:GLU:HG3	1.66	0.77
6:D7:529:VAL:N	11:I3:181:GLN:HE21	1.76	0.77
11:I1:840:LEU:CG	17:O1:244:GLU:HG2	1.88	0.77
11:I1:947:LEU:N	16:N1:407:ALA:HB1	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1669:ARG:CB	11:I2:1664:PHE:HE1	1.60	0.77
11:I2:922:ASP:OD1	15:M3:593:ALA:HB2	1.84	0.77
11:I2:950:LEU:CG	15:M3:606:LEU:CD2	2.61	0.77
11:I2:985:ARG:O	15:M3:613:ASP:OD2	2.00	0.77
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD2	2.13	0.77
11:I2:1039:ALA:CB	20:R3:170:LEU:CA	2.62	0.77
11:I2:1103:LEU:HB3	20:R3:174:ARG:CB	2.02	0.77
11:I4:817:ASP:HB3	26:X3:498:SER:HB2	1.64	0.77
11:I4:1274:HIS:NE2	26:X3:531:LEU:HG	1.96	0.77
18:P1:277:PRO:HB3	18:P4:323:GLN:H	1.48	0.77
27:Y1:41:ASP:CA	29:a1:230:GLN:OE1	2.28	0.77
28:Z2:407:GLY:CA	30:b2:251:ILE:HG13	2.14	0.77
28:Z2:438:GLU:CD	30:b2:333:HIS:CE1	2.62	0.77
28:Z2:557:CYS:O	30:b2:235:LEU:O	1.99	0.77
28:Z4:561:GLN:CB	30:b4:236:THR:CA	2.62	0.77
2:A2:874:VAL:HG11	6:D1:611:LYS:CB	2.09	0.77
2:A2:1130:ARG:NH2	3:A5:180:GLU:O	2.16	0.77
2:A2:1139:ILE:CA	3:A5:131:PRO:CD	2.61	0.77
2:A4:827:ILE:HA	6:D3:606:LYS:CB	2.13	0.77
2:A4:867:GLU:HB2	6:D3:605:THR:CB	2.13	0.77
2:A4:867:GLU:CB	6:D3:605:THR:CB	2.59	0.77
2:A4:879:LEU:CG	6:D3:564:ASN:CG	2.57	0.77
2:A4:1120:ASP:O	3:A6:136:GLU:OE2	2.02	0.77
11:I1:881:ILE:N	17:O1:250:LEU:N	2.33	0.77
11:I1:1021:ILE:HA	16:N1:406:HIS:HD1	1.44	0.77
11:I1:1029:LEU:CD1	20:R1:171:ALA:CA	2.33	0.77
11:I2:896:PRO:N	17:O3:233:THR:CA	2.46	0.77
11:I2:924:ILE:HD13	15:M3:595:MET:CG	2.12	0.77
11:I2:1039:ALA:O	20:R3:170:LEU:HD11	1.83	0.77
28:Z3:411:LEU:CA	30:b3:251:ILE:HD13	2.11	0.77
28:Z4:113:VAL:HG23	28:Z4:114:GLU:H	1.49	0.77
28:Z4:528:ILE:C	30:b4:184:SER:OG	1.99	0.77
2:A2:826:ASN:OD1	6:D1:633:LYS:HB3	1.83	0.77
2:A2:980:ARG:CA	6:D1:473:GLU:HG3	2.14	0.77
2:A2:1131:ILE:CG1	3:A5:137:HIS:CB	2.63	0.77
1:A3:1021:LEU:CD1	6:D3:819:ASN:ND2	2.42	0.77
2:A4:1139:ILE:CA	3:A6:138:LEU:HD12	2.15	0.77
2:A4:1161:ALA:HB2	3:A6:137:HIS:CE1	2.14	0.77
3:A5:999:SER:HA	11:I5:62:GLU:C	1.76	0.77
3:A6:1408:GLU:HA	28:Z4:968:ARG:CB	2.14	0.77
11:I1:911:PRO:CA	15:M1:584:GLN:HE22	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:934:LEU:CA	15:M1:602:MET:SD	2.68	0.77
11:I1:1038:ILE:HD12	20:R1:167:GLN:OE1	1.83	0.77
11:I1:1056:PRO:C	17:O1:277:GLU:C	2.51	0.77
11:I1:1061:ASP:HA	17:O1:279:ILE:CD1	2.15	0.77
11:I1:1610:VAL:HG11	11:I2:1669:ARG:NH2	2.00	0.77
11:I2:937:TYR:HB3	17:O3:258:GLU:HA	1.65	0.77
11:I2:1020:ALA:HB3	16:N3:410:MET:CA	2.14	0.77
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD13	1.61	0.77
11:I4:1279:THR:CG2	26:X3:523:LEU:N	2.47	0.77
28:Z2:527:SER:CA	30:b2:204:GLU:OE1	2.12	0.77
28:Z3:407:GLY:CA	30:b3:251:ILE:HG13	2.14	0.77
28:Z3:438:GLU:CD	30:b3:333:HIS:CE1	2.62	0.77
28:Z3:561:GLN:CB	30:b3:236:THR:CA	2.62	0.77
2:A4:1055:ARG:CD	6:D4:762:ARG:CA	2.61	0.77
2:A4:1139:ILE:HB	3:A6:138:LEU:HD12	1.67	0.77
3:A6:1363:ASP:OD1	28:Z4:869:HIS:CB	2.32	0.77
11:I1:1610:VAL:HG12	11:I2:1669:ARG:NH2	1.98	0.77
11:I2:976:ARG:NH2	20:R3:143:PHE:CG	2.52	0.77
11:I4:775:ASP:CA	29:a4:40[A]:GLU:OE2	2.33	0.77
28:Z1:534:ASP:OD2	30:b1:183:LEU:CG	2.32	0.77
28:Z4:557:CYS:O	30:b4:235:LEU:O	1.99	0.77
2:A4:867:GLU:HG3	6:D3:605:THR:HG21	0.81	0.77
3:A6:1411:ARG:CB	28:Z4:968:ARG:CB	2.61	0.77
11:I1:880:MET:N	17:O1:250:LEU:H	1.81	0.77
11:I1:919:ALA:O	15:M1:592:LEU:CD2	2.31	0.77
11:I1:980:ILE:HB	15:M1:618:GLN:HA	1.65	0.77
11:I1:1043:LEU:HD12	20:R1:170:LEU:HD22	1.65	0.77
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG2	1.64	0.77
11:I2:924:ILE:HD13	15:M3:595:MET:HG2	1.65	0.77
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG22	1.83	0.77
11:I4:1278:ALA:HB2	26:X3:517:ASP:HA	1.66	0.77
28:Z1:539:GLU:OE1	30:b1:165:THR:N	2.15	0.77
28:Z1:561:GLN:CG	30:b1:235:LEU:CD2	2.61	0.77
28:Z2:522:ASN:OD1	30:b2:241:PRO:HG3	1.84	0.77
28:Z2:534:ASP:N	30:b2:164:CYS:CB	2.48	0.77
28:Z3:526:ARG:CA	30:b3:206:ASN:OD1	2.33	0.77
1:A1:1201:ARG:NE	2:A2:734:LEU:CB	2.48	0.77
2:A2:876:ARG:HH12	6:D1:563:GLU:H	1.32	0.77
2:A4:779:ASP:O	6:D3:679:ILE:CB	2.31	0.77
2:A4:826:ASN:ND2	6:D3:633:LYS:HB2	2.00	0.77
3:A5:1379:GLY:HA2	28:Z2:816:THR:N	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1411:ARG:C	28:Z2:961:PHE:CB	2.58	0.77
3:A6:234:LEU:N	5:C4:737:LYS:C	2.24	0.77
3:A6:1367:THR:CG2	28:Z4:849:ALA:O	2.26	0.77
11:I1:935:GLY:H	15:M1:605:THR:N	1.82	0.77
11:I1:938:CYS:O	17:O1:260:LEU:O	2.02	0.77
11:I1:1064:LYS:CB	16:N1:427:VAL:HG11	1.84	0.77
11:I2:880:MET:N	17:O3:251:ILE:N	2.32	0.77
11:I2:966:TRP:N	20:R3:154:ALA:CB	2.47	0.77
11:I3:1278:ALA:H	26:X1:519:ILE:HG22	0.73	0.77
28:Z1:557:CYS:O	30:b1:235:LEU:O	1.99	0.77
28:Z3:410:ASN:HB3	30:b3:251:ILE:CB	2.15	0.77
28:Z3:534:ASP:N	30:b3:164:CYS:CB	2.48	0.77
2:A2:872:ALA:HB1	6:D1:565:MET:CB	2.15	0.77
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ3	1.50	0.77
2:A2:1139:ILE:CA	3:A5:131:PRO:HD2	2.12	0.77
1:A3:785:ILE:HD11	1:A3:825:ARG:HG2	1.67	0.77
2:A4:985:ALA:HB1	6:D3:500:LYS:C	2.10	0.77
2:A4:1154:PHE:O	3:A6:176:LEU:O	2.03	0.77
3:A5:1033:GLN:OE1	11:I5:71:GLU:HA	1.84	0.77
3:A5:1392:ARG:HG3	28:Z2:867:LYS:HA	1.65	0.77
3:A6:777:LEU:HD12	3:A6:822:ILE:HD11	1.66	0.77
3:A6:1412:MSE:C	28:Z4:961:PHE:C	2.34	0.77
8:F1:1264:ARG:HH12	17:O2:264:ILE:HD13	1.50	0.77
8:F2:1090:PRO:CG	17:O4:245:GLU:CD	2.41	0.77
9:G1:258:LYS:HZ3	16:N2:408:MET:HA	1.49	0.77
11:I1:884:LEU:CD2	17:O1:246:LEU:HD11	1.83	0.77
11:I1:931:VAL:HG21	15:M1:604:ASN:OD1	1.81	0.77
11:I1:957:SER:OG	16:N1:399:HIS:CD2	2.38	0.77
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD1	2.44	0.77
11:I2:896:PRO:CA	17:O3:232:LYS:C	2.45	0.77
11:I2:1018:LYS:HE2	16:N3:413:VAL:CG1	2.15	0.77
11:I3:1275:SER:OG	26:X1:522:MET:CA	2.14	0.77
28:Z1:526:ARG:N	30:b1:208:ASN:ND2	2.25	0.77
28:Z2:438:GLU:HG3	30:b2:333:HIS:CE1	2.20	0.77
28:Z2:561:GLN:CB	30:b2:236:THR:CA	2.62	0.77
28:Z2:561:GLN:CG	30:b2:236:THR:N	2.48	0.77
28:Z3:522:ASN:N	30:b3:238:ASN:HB3	1.96	0.77
28:Z3:561:GLN:HG2	30:b3:235:LEU:CD2	2.07	0.77
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB1	1.67	0.77
28:Z4:534:ASP:OD2	30:b4:183:LEU:CG	2.32	0.77
1:A1:777:LEU:HD12	1:A1:822:ILE:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1220:PRO:HG3	2:A4:732:GLN:CD	2.08	0.77
2:A4:876:ARG:HG3	6:D3:558:LYS:HA	1.67	0.77
2:A4:975:GLU:CA	6:D3:496:LEU:HA	2.15	0.77
2:A4:985:ALA:HB1	6:D3:501:LEU:N	2.00	0.77
2:A4:1156:ASP:O	3:A6:176:LEU:CD2	2.07	0.77
3:A5:177:ILE:HD11	5:C2:740:ARG:CZ	2.14	0.77
3:A6:157:TRP:N	5:C4:741:THR:HG21	1.97	0.77
3:A6:1372:THR:HB	28:Z4:822:SER:O	1.84	0.77
8:F1:1205:TRP:CD1	17:O2:251:ILE:HG23	2.19	0.77
11:I1:990:GLU:HG3	15:M1:614:ASP:HB2	1.66	0.77
11:I1:1027:ALA:CB	20:R1:172:ASP:CG	2.55	0.77
11:I1:1104:LEU:CA	16:N1:436:ALA:HB1	2.14	0.77
11:I2:1055:GLU:CG	17:O3:277:GLU:O	2.31	0.77
11:I4:1278:ALA:HB1	26:X3:520:GLU:OE2	0.82	0.77
17:O3:147:ALA:CB	18:P3:328:PRO:HG2	2.08	0.77
24:V1:548:TYR:OH	25:W1:18:ASP:OD2	2.01	0.77
28:Z1:438:GLU:HG3	30:b1:333:HIS:CE1	2.20	0.77
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB1	1.66	0.77
28:Z2:523:ASP:O	30:b2:208:ASN:OD1	1.81	0.77
28:Z2:524:VAL:HG12	30:b2:236:THR:CG2	2.12	0.77
28:Z3:411:LEU:H	30:b3:251:ILE:HD13	1.11	0.77
28:Z3:561:GLN:CG	30:b3:236:THR:N	2.48	0.77
28:Z4:561:GLN:CG	30:b4:235:LEU:CD2	2.61	0.77
2:A2:909:LYS:CA	6:D1:552:TYR:OH	2.31	0.77
2:A2:1126:VAL:CG1	3:A5:139:ASN:HB2	2.14	0.77
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD11	1.66	0.77
3:A5:1098:ARG:HE	11:I5:29:GLN:CG	1.97	0.77
3:A6:1366:LEU:HD13	28:Z4:866:GLU:O	1.85	0.77
11:I1:874:LEU:HD23	17:O1:252:VAL:CG1	2.13	0.77
11:I1:919:ALA:HB3	16:N1:389:PHE:HA	1.64	0.77
11:I1:1036:PRO:C	15:M1:623:LEU:C	2.53	0.77
11:I1:1607:GLN:HE21	11:I2:1736:LEU:CD1	1.94	0.77
11:I2:1040:HIS:NE2	16:N3:437:VAL:CG1	2.46	0.77
11:I2:1052:LEU:HD13	16:N3:438:LEU:CD2	2.14	0.77
11:I2:1105:TRP:CD1	16:N3:432:TYR:CZ	2.45	0.77
28:Z1:544:MET:HE1	30:b1:181:TYR:HA	1.65	0.77
28:Z1:561:GLN:CB	30:b1:236:THR:CA	2.62	0.77
1:A1:1332:ARG:HD2	6:D1:636:ASP:CG	2.09	0.77
2:A4:861:GLN:CA	6:D3:607:PRO:CD	2.60	0.77
2:A4:1151:THR:HG23	5:C4:734:VAL:C	2.09	0.77
2:A4:1154:PHE:C	3:A6:176:LEU:N	2.42	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1401:VAL:HG22	28:Z4:912:ASP:CB	2.15	0.77
11:I2:925:LEU:CD1	20:R3:156:GLY:N	2.42	0.77
11:I2:1028:CYS:O	20:R3:169:GLY:C	2.28	0.77
18:P1:278:ASN:HA	18:P4:322:LYS:O	1.78	0.77
24:V3:416:ASP:HA	24:V3:443:THR:HG21	1.66	0.77
26:X4:141:ASN:O	26:X4:145:ASN:ND2	2.18	0.77
28:Z1:410:ASN:HB3	30:b1:251:ILE:CB	2.15	0.77
28:Z1:438:GLU:CD	30:b1:333:HIS:CE1	2.62	0.77
28:Z1:526:ARG:CA	30:b1:206:ASN:OD1	2.33	0.77
28:Z2:561:GLN:HG2	30:b2:235:LEU:HD23	1.66	0.77
28:Z4:407:GLY:CA	30:b4:251:ILE:HG13	2.14	0.77
28:Z4:410:ASN:HB3	30:b4:251:ILE:CB	2.15	0.77
2:A2:980:ARG:HA	6:D1:473:GLU:OE2	1.85	0.76
2:A2:982:THR:HG23	6:D1:496:LEU:C	2.03	0.76
2:A2:989:MSE:CB	6:D1:500:LYS:HE3	2.14	0.76
2:A2:1151:THR:HG23	5:C2:734:VAL:C	2.09	0.76
1:A3:1221:ILE:CD1	2:A4:642:ARG:CA	2.62	0.76
3:A5:1310:ARG:NH2	28:Z2:827:GLN:HA	1.97	0.76
3:A6:150:PHE:HE2	5:C4:740:ARG:O	1.67	0.76
3:A6:1395:LYS:CG	28:Z4:889:LEU:C	2.57	0.76
6:D7:527:ASN:C	11:I3:181:GLN:HE21	1.93	0.76
8:F1:1137:GLN:NE2	17:O2:249:ARG:N	2.27	0.76
11:I1:849:LEU:HD12	17:O1:247:TRP:CD2	2.20	0.76
11:I1:877:ILE:HG23	17:O1:253:LEU:HB2	1.62	0.76
11:I1:955:LYS:HE2	16:N1:397:GLU:HA	1.67	0.76
11:I1:1603:ARG:HH12	11:I2:1662:ARG:HD3	0.94	0.76
11:I2:899:LEU:HD11	17:O3:234:LEU:CB	2.15	0.76
11:I2:922:ASP:HB3	15:M3:589:GLY:C	2.08	0.76
11:I2:948:ALA:HB3	17:O3:256:TYR:CB	2.08	0.76
11:I3:1275:SER:HB2	26:X1:508:LEU:HD21	1.67	0.76
28:Z1:561:GLN:HG2	30:b1:235:LEU:HD23	1.66	0.76
28:Z2:411:LEU:H	30:b2:251:ILE:HD13	1.11	0.76
28:Z2:522:ASN:OD1	30:b2:241:PRO:HB3	1.85	0.76
28:Z2:531:LYS:HD3	30:b2:183:LEU:CB	1.97	0.76
28:Z4:523:ASP:O	30:b4:208:ASN:OD1	1.81	0.76
28:Z4:526:ARG:N	30:b4:208:ASN:ND2	2.25	0.76
1:A1:868:GLN:O	6:D3:277:ASN:HB3	1.85	0.76
1:A1:1201:ARG:HH11	2:A2:734:LEU:HD23	1.47	0.76
2:A2:1132:PRO:HD2	3:A5:158:ALA:O	1.84	0.76
2:A2:1135:ARG:CD	3:A5:157:TRP:C	2.55	0.76
2:A2:1142:PHE:CZ	3:A5:567:VAL:N	2.53	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1399:ARG:HB3	2:A4:884:ARG:HE	1.49	0.76
2:A4:879:LEU:CB	6:D3:564:ASN:CG	2.58	0.76
3:A5:785:ILE:HD11	3:A5:825:ARG:HG2	1.67	0.76
3:A6:1351:MSE:CB	28:Z4:918:PHE:CB	2.62	0.76
11:I1:881:ILE:CD1	17:O1:253:LEU:HD12	2.14	0.76
11:I1:1037:THR:HB	15:M1:624:ASN:ND2	1.98	0.76
11:I2:887:GLN:C	17:O3:242:ARG:NE	2.36	0.76
11:I2:920:PHE:O	15:M3:595:MET:CB	2.30	0.76
11:I2:1020:ALA:HA	16:N3:405:ALA:O	1.84	0.76
11:I2:1021:ILE:HG12	16:N3:410:MET:HE2	0.77	0.76
17:O4:107:THR:HG21	18:P4:321:ILE:HD11	1.67	0.76
28:Z1:534:ASP:N	30:b1:164:CYS:CB	2.48	0.76
28:Z1:561:GLN:CD	30:b1:237:LEU:N	2.44	0.76
28:Z2:522:ASN:N	30:b2:238:ASN:HB3	1.96	0.76
28:Z3:544:MET:HE1	30:b3:181:TYR:HA	1.65	0.76
2:A2:826:ASN:CG	6:D1:633:LYS:HB2	2.10	0.76
3:A5:1310:ARG:O	28:Z2:830:LEU:O	2.04	0.76
3:A6:157:TRP:CH2	5:C4:747:PRO:HB3	2.20	0.76
3:A6:233:THR:CA	5:C4:737:LYS:HB2	2.15	0.76
3:A6:1151:THR:CA	5:C6:733:LEU:HD12	2.15	0.76
3:A6:1354:TRP:C	28:Z4:877:ILE:HA	2.10	0.76
11:I1:917:TYR:O	15:M1:588:MET:SD	2.44	0.76
11:I1:956:ILE:HG12	15:M1:599:ILE:HD13	1.68	0.76
11:I1:984:GLU:C	15:M1:613:ASP:C	2.53	0.76
11:I1:1611:PHE:CB	11:I2:1672:VAL:HG22	2.16	0.76
11:I2:946:THR:H	17:O3:260:LEU:N	1.45	0.76
11:I2:1043:LEU:CD2	16:N3:430:ARG:O	2.31	0.76
17:O4:110:LEU:CG	18:P4:321:ILE:HB	2.14	0.76
28:Z2:539:GLU:OE1	30:b2:165:THR:N	2.15	0.76
28:Z3:401:THR:C	30:b3:254:SER:OG	2.25	0.76
28:Z3:524:VAL:HG13	30:b3:236:THR:CA	2.16	0.76
1:A1:1222:ALA:CA	2:A2:615:LEU:HD13	2.16	0.76
2:A2:873:PRO:HA	6:D1:563:GLU:CB	2.16	0.76
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ2	1.49	0.76
2:A2:1149:THR:N	3:A5:172:PRO:HB2	2.01	0.76
1:A3:1198:GLU:O	2:A4:729:SER:O	2.03	0.76
2:A4:171:HIS:HE2	6:D3:708:ASP:CG	1.93	0.76
2:A4:172:PRO:HG3	6:D3:781:ARG:NE	2.01	0.76
2:A4:988:ARG:NH2	6:D3:499:LEU:C	2.43	0.76
2:A4:1134:GLU:H	3:A6:145:THR:CA	1.96	0.76
3:A5:1011:TYR:OH	11:I5:54:LYS:HG2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1304:GLU:O	28:Z4:833:ASP:C	2.29	0.76
3:A6:1364:GLN:HB3	28:Z4:846:SER:C	2.09	0.76
9:G1:262:SER:HB3	17:O2:256:TYR:CZ	2.21	0.76
9:G1:270:ARG:HD3	16:N2:414:ALA:HA	1.68	0.76
11:I1:879:VAL:O	17:O1:247:TRP:N	2.18	0.76
11:I2:828:VAL:O	17:O3:237:PRO:CB	2.33	0.76
11:I2:954:GLU:CA	16:N3:403:VAL:HG22	2.15	0.76
11:I2:955:LYS:NZ	17:O3:249:ARG:HH21	1.84	0.76
11:I2:1029:LEU:C	20:R3:173:LEU:N	2.37	0.76
11:I2:1055:GLU:O	17:O3:277:GLU:C	2.29	0.76
26:X2:141:ASN:O	26:X2:145:ASN:ND2	2.18	0.76
28:Z1:522:ASN:N	30:b1:238:ASN:HB3	1.96	0.76
28:Z3:411:LEU:CD2	30:b3:251:ILE:CG2	2.54	0.76
2:A2:978:ASP:H	6:D1:492:VAL:HG12	1.50	0.76
2:A4:978:ASP:HB2	6:D3:476:VAL:HG22	1.63	0.76
2:A4:1136:LYS:NZ	3:A6:139:ASN:C	2.43	0.76
3:A6:785:ILE:HD11	3:A6:825:ARG:HG2	1.67	0.76
3:A6:1390:LEU:HB3	28:Z4:867:LYS:N	2.01	0.76
11:I1:989:GLY:O	15:M1:608:LYS:HG3	1.84	0.76
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD12	1.65	0.76
11:I1:1048:GLU:HG2	17:O1:288:GLU:HG3	1.67	0.76
11:I1:1113:LEU:C	16:N1:435:ALA:CB	2.56	0.76
11:I1:1669:ARG:CB	11:I2:1664:PHE:HZ	1.60	0.76
11:I2:887:GLN:HB2	16:N3:393:ILE:CG1	2.13	0.76
11:I2:1029:LEU:N	20:R3:171:ALA:C	2.44	0.76
11:I2:1029:LEU:HD22	16:N3:437:VAL:CG2	2.16	0.76
11:I2:1053:GLY:C	17:O3:281:ALA:C	2.49	0.76
11:I3:1271:GLU:N	26:X1:529:TRP:HB2	2.01	0.76
11:I3:1278:ALA:N	26:X1:519:ILE:HB	2.01	0.76
27:Y3:41:ASP:CA	29:a3:230:GLN:OE1	2.28	0.76
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB1	1.66	0.76
28:Z1:531:LYS:HZ3	30:b1:166:LEU:CB	1.97	0.76
28:Z1:535:ILE:CG1	30:b1:182:PRO:HG3	2.13	0.76
28:Z1:561:GLN:CG	30:b1:236:THR:N	2.48	0.76
28:Z4:524:VAL:HG13	30:b4:236:THR:CA	2.16	0.76
28:Z4:534:ASP:N	30:b4:164:CYS:CB	2.48	0.76
1:A1:1332:ARG:CZ	6:D1:682:ASN:N	2.49	0.76
2:A2:1156:ASP:OD2	3:A5:171:HIS:CB	2.34	0.76
2:A4:782:VAL:HG23	6:D3:677:GLN:CA	2.15	0.76
2:A4:1135:ARG:NH1	3:A6:167:TRP:HZ3	1.83	0.76
3:A6:1371:GLY:C	28:Z4:822:SER:N	2.23	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1388:ALA:HA	28:Z4:866:GLU:N	2.00	0.76
9:G2:256:GLN:CD	17:O4:262:ASP:N	2.43	0.76
11:I1:950:LEU:CD1	16:N1:406:HIS:O	2.23	0.76
11:I1:1041:GLN:HB2	15:M1:620:VAL:N	2.00	0.76
11:I1:1114:VAL:HG21	16:N1:432:TYR:O	1.82	0.76
11:I1:1114:VAL:HG21	16:N1:436:ALA:HB2	1.67	0.76
11:I2:955:LYS:HZ1	16:N3:400:LEU:HD12	1.50	0.76
11:I2:1019:LEU:HD22	16:N3:412:ASN:ND2	2.00	0.76
11:I2:1041:GLN:NE2	15:M3:614:ASP:CG	2.43	0.76
17:O3:151:LEU:CD2	18:P3:325:ILE:CG1	0.76	0.76
28:Z2:561:GLN:CD	30:b2:237:LEU:N	2.44	0.76
28:Z4:522:ASN:OD1	30:b4:241:PRO:HB3	1.85	0.76
1:A1:1091:VAL:CB	6:D1:804:SER:OG	2.33	0.76
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD1	2.69	0.76
2:A2:1164:TYR:N	4:B5:342:ARG:HG2	2.01	0.76
2:A4:227:SER:CB	6:D3:708:ASP:O	2.33	0.76
2:A4:864:ARG:HD3	6:D3:607:PRO:C	2.09	0.76
3:A6:1361:ARG:CB	28:Z4:875:LEU:CB	2.63	0.76
9:G1:257:THR:CB	17:O2:250:LEU:HA	2.16	0.76
11:I1:949:CYS:C	16:N1:403:VAL:CG1	2.58	0.76
11:I1:955:LYS:NZ	16:N1:397:GLU:HA	1.99	0.76
11:I1:1019:LEU:HD13	16:N1:412:ASN:ND2	2.01	0.76
11:I2:797:LEU:HB3	17:O3:245:GLU:HG2	1.68	0.76
11:I2:958:THR:HB	16:N3:399:HIS:CB	2.16	0.76
11:I2:965:ALA:HB3	20:R3:165:SER:H	1.50	0.76
11:I2:1030:ARG:HH11	20:R3:175:GLN:CG	1.97	0.76
11:I3:1278:ALA:O	26:X1:520:GLU:CG	2.33	0.76
11:I4:1274:HIS:NE2	26:X3:530:ARG:N	2.33	0.76
18:P1:276:SER:HA	18:P4:319:VAL:HG12	1.67	0.76
21:S4:176:MET:HE2	21:S4:212:LEU:CD1	2.11	0.76
28:Z2:557:CYS:HB2	30:b2:210:ARG:NH1	1.97	0.76
28:Z3:438:GLU:CB	30:b3:314:PRO:HG2	2.15	0.76
28:Z4:531:LYS:HZ1	30:b4:166:LEU:HB3	1.47	0.76
1:A1:1201:ARG:CD	2:A2:734:LEU:CD2	2.59	0.76
1:A1:1224:PRO:CD	2:A2:734:LEU:HD22	2.13	0.76
1:A3:1201:ARG:O	2:A4:731:ILE:O	2.04	0.76
2:A4:781:ARG:HH21	6:D3:633:LYS:CE	1.96	0.76
2:A4:864:ARG:CB	6:D3:608:ILE:H	1.99	0.76
3:A5:1395:LYS:CA	28:Z2:874:ASN:N	2.49	0.76
6:D5:283:LEU:HD12	6:D5:284:GLY:N	2.01	0.76
6:D6:283:LEU:HD12	6:D6:284:GLY:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1261:TYR:CE1	17:O2:263:GLN:HB2	2.01	0.76
11:I1:920:PHE:HZ	17:O1:247:TRP:CD2	2.02	0.76
11:I1:928:LEU:HD21	20:R1:155:GLU:HB2	1.67	0.76
11:I1:986:ASN:C	15:M1:613:ASP:N	2.21	0.76
11:I1:1017:VAL:HG13	16:N1:410:MET:HB3	1.65	0.76
11:I1:1021:ILE:HG13	16:N1:410:MET:CA	2.16	0.76
11:I1:1038:ILE:C	15:M1:620:VAL:CG2	2.57	0.76
11:I1:1100:ILE:O	20:R1:174:ARG:NH2	2.19	0.76
11:I2:888:GLU:H	16:N3:393:ILE:HG22	1.45	0.76
11:I2:1049:LEU:HG	17:O3:291:ASP:HB2	1.66	0.76
11:I2:1109:LEU:HD21	17:O3:287:LEU:CD1	2.16	0.76
11:I3:1267:LEU:HG	26:X1:529:TRP:CE2	2.21	0.76
11:I3:1267:LEU:HA	26:X1:529:TRP:HA	1.67	0.76
24:V1:416:ASP:HA	24:V1:443:THR:HG21	1.66	0.76
28:Z1:527:SER:OG	30:b1:210:ARG:NE	2.19	0.76
28:Z2:438:GLU:CB	30:b2:314:PRO:HG2	2.15	0.76
28:Z4:438:GLU:CD	30:b4:333:HIS:CE1	2.63	0.76
28:Z4:527:SER:OG	30:b4:210:ARG:NE	2.19	0.76
28:Z4:561:GLN:CD	30:b4:237:LEU:N	2.43	0.76
1:A3:1223:GLU:O	2:A4:724:LEU:HA	1.86	0.76
2:A4:780:GLU:CD	6:D3:679:ILE:CB	2.59	0.76
2:A4:870:HIS:CD2	6:D3:566:PHE:CD1	2.72	0.76
2:A4:871:ASN:CG	6:D3:573:LEU:H	1.94	0.76
2:A4:876:ARG:HD2	6:D3:559:ASP:N	1.99	0.76
2:A4:1157:TYR:CE2	3:A6:131:PRO:HB2	2.06	0.76
3:A5:230:LYS:HB2	5:C2:739:MET:O	1.39	0.76
3:A5:1026:PRO:CG	11:I5:73:TYR:HB2	2.16	0.76
3:A5:1094:ILE:HG23	11:I5:4:LEU:HB2	0.76	0.76
8:F1:1267:ARG:CG	17:O2:265:ASN:O	2.27	0.76
11:I1:884:LEU:HD21	15:M1:595:MET:SD	2.26	0.76
11:I1:947:LEU:CD1	16:N1:411:GLN:CB	2.64	0.76
11:I1:1023:ASP:OD2	16:N1:405:ALA:HB1	1.85	0.76
11:I1:1043:LEU:HD23	16:N1:430:ARG:HB2	1.68	0.76
11:I2:1029:LEU:N	20:R3:171:ALA:N	2.11	0.76
26:X3:141:ASN:O	26:X3:145:ASN:ND2	2.18	0.76
28:Z1:410:ASN:CB	30:b1:251:ILE:HB	2.16	0.76
28:Z1:438:GLU:CB	30:b1:314:PRO:HG2	2.15	0.76
28:Z1:523:ASP:C	30:b1:208:ASN:OD1	2.29	0.76
28:Z3:438:GLU:HG3	30:b3:333:HIS:CE1	2.20	0.76
28:Z3:522:ASN:OD1	30:b3:241:PRO:HB3	1.86	0.76
28:Z4:524:VAL:N	30:b4:238:ASN:CA	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:561:GLN:HG2	30:b4:235:LEU:HD23	1.66	0.76
2:A2:1131:ILE:CB	3:A5:137:HIS:CB	2.55	0.76
2:A4:782:VAL:HG23	6:D3:676:ALA:C	2.10	0.76
2:A4:861:GLN:HA	6:D3:607:PRO:HD3	1.67	0.76
2:A4:987:LYS:CE	6:D3:555:ARG:HG2	2.16	0.76
3:A5:1151:THR:CA	5:C5:733:LEU:HD12	2.15	0.76
3:A6:220:VAL:CB	5:C4:738:ASP:O	2.33	0.76
3:A6:221:SER:CB	5:C4:738:ASP:CG	2.54	0.76
4:B6:345:LYS:CB	5:C4:737:LYS:CE	2.23	0.76
6:D7:179:ASP:CG	11:I3:49:PRO:HB3	2.10	0.76
11:I1:880:MET:CB	17:O1:247:TRP:O	2.32	0.76
11:I1:924:ILE:HD12	15:M1:595:MET:HG2	1.65	0.76
11:I1:1031:ALA:O	20:R1:173:LEU:HA	1.86	0.76
11:I1:1055:GLU:CG	17:O1:280:GLU:HG3	2.13	0.76
11:I2:840:LEU:CD2	17:O3:247:TRP:CD1	2.69	0.76
11:I2:946:THR:C	17:O3:257:ALA:HA	2.11	0.76
11:I2:966:TRP:N	20:R3:154:ALA:CA	2.49	0.76
11:I2:1040:HIS:HD1	15:M3:623:LEU:HD12	1.45	0.76
11:I2:1040:HIS:CB	15:M3:619:ILE:HG21	2.12	0.76
11:I2:1046:HIS:O	17:O3:284:LYS:CG	2.33	0.76
28:Z1:443:LEU:HD21	30:b1:250:GLY:HA3	1.68	0.76
28:Z2:555:LYS:HB3	30:b2:212:PHE:HA	1.68	0.76
28:Z3:410:ASN:CB	30:b3:251:ILE:HB	2.16	0.76
1:A1:873:PRO:CG	6:D3:218:LYS:HZ2	2.00	0.75
2:A2:223:THR:HG1	6:D1:709:ARG:NH2	1.83	0.75
2:A2:862:LEU:N	6:D1:606:LYS:CE	2.31	0.75
2:A2:970:PHE:CB	6:D1:498:GLU:OE1	2.34	0.75
2:A2:1151:THR:CG2	5:C2:734:VAL:CB	2.61	0.75
2:A4:874:VAL:HB	6:D3:571:SER:H	1.50	0.75
2:A4:909:LYS:CG	6:D3:552:TYR:CZ	2.42	0.75
2:A4:982:THR:HG23	6:D3:496:LEU:HB2	1.64	0.75
2:A4:989:MSE:HG3	6:D3:500:LYS:HD2	1.68	0.75
2:A4:1118:GLN:HG2	3:A6:132:ASP:CB	2.16	0.75
2:A4:1120:ASP:C	3:A6:136:GLU:CD	2.47	0.75
2:A4:1151:THR:CG2	5:C4:734:VAL:CB	2.61	0.75
3:A5:1056:PHE:CD2	11:I5:37:GLU:CG	2.66	0.75
3:A5:1357:GLU:N	28:Z2:878:HIS:O	2.01	0.75
9:G1:255:LEU:CA	15:M2:602:MET:HB3	2.13	0.75
11:I1:797:LEU:CG	17:O1:245:GLU:CG	2.64	0.75
11:I1:976:ARG:HH12	15:M1:622:VAL:HA	1.49	0.75
11:I1:1049:LEU:HB3	17:O1:291:ASP:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:891:LEU:CD1	16:N3:393:ILE:HD13	2.13	0.75
27:Y2:41:ASP:CA	29:a2:230:GLN:OE1	2.28	0.75
28:Z1:407:GLY:CA	30:b1:251:ILE:HG13	2.14	0.75
28:Z2:410:ASN:HB3	30:b2:251:ILE:CB	2.15	0.75
28:Z2:527:SER:OG	30:b2:210:ARG:NE	2.19	0.75
1:A1:874:VAL:HB	6:D3:276:GLY:C	2.11	0.75
2:A2:980:ARG:NH2	6:D1:503:LEU:CD1	2.48	0.75
2:A2:980:ARG:HB2	6:D1:526:LEU:CB	2.16	0.75
2:A4:1130:ARG:O	3:A6:161[A]:ASP:CB	2.31	0.75
3:A5:999:SER:HB3	11:I5:64:LYS:CG	2.16	0.75
3:A5:1022:SER:O	11:I5:95:LYS:HB2	1.74	0.75
3:A6:1387:ILE:HB	28:Z4:864:PHE:HA	0.90	0.75
11:I1:948:ALA:N	17:O1:256:TYR:CD2	2.53	0.75
11:I2:1029:LEU:CD1	16:N3:433:GLU:HG2	1.95	0.75
11:I3:1269:ARG:HA	26:X1:524:SER:O	1.86	0.75
28:Z2:523:ASP:C	30:b2:208:ASN:OD1	2.29	0.75
28:Z2:535:ILE:CG1	30:b2:182:PRO:HG3	2.13	0.75
2:A2:973:GLU:HB3	6:D1:498:GLU:CG	2.16	0.75
2:A2:989:MSE:SE	6:D1:241:ALA:H	2.19	0.75
1:A3:1221:ILE:HD11	2:A4:642:ARG:CA	2.16	0.75
2:A4:1167:CYS:SG	4:B6:342:ARG:N	2.59	0.75
6:D3:283:LEU:HD12	6:D3:284:GLY:N	2.01	0.75
9:G2:256:GLN:CB	17:O4:262:ASP:H	2.00	0.75
11:I1:880:MET:CA	17:O1:250:LEU:H	1.99	0.75
11:I1:916:ALA:HB3	15:M1:586:ASP:CB	2.11	0.75
11:I1:966:TRP:CZ2	20:R1:166:LEU:HA	2.22	0.75
11:I1:1063:GLN:O	16:N1:428:ASP:CB	2.34	0.75
11:I1:1668:HIS:O	11:I2:1668:HIS:HB3	1.87	0.75
11:I2:942:HIS:CG	17:O3:259:ASP:OD1	2.37	0.75
11:I2:1030:ARG:HD3	20:R3:175:GLN:OE1	1.86	0.75
11:I2:1038:ILE:CD1	15:M3:620:VAL:HB	2.17	0.75
11:I2:1048:GLU:CB	17:O3:284:LYS:O	2.33	0.75
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB3	1.69	0.75
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB3	1.68	0.75
28:Z2:524:VAL:CB	30:b2:236:THR:CG2	2.32	0.75
28:Z3:113:VAL:HG23	28:Z3:114:GLU:H	1.49	0.75
2:A2:864:ARG:NE	6:D1:610:ASN:CG	2.44	0.75
2:A2:866:SER:H	6:D1:604:ASP:C	1.94	0.75
2:A2:1143:LEU:HG	3:A5:131:PRO:N	2.01	0.75
2:A4:874:VAL:O	6:D3:567:LEU:HB3	1.85	0.75
2:A4:1139:ILE:CB	3:A6:138:LEU:HD12	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:188:ALA:CA	5:C4:746:PRO:O	2.34	0.75
3:A6:1399:ARG:HE	28:Z4:945:VAL:CB	1.93	0.75
11:I1:920:PHE:H	16:N1:393:ILE:CG1	1.99	0.75
11:I1:932:VAL:HG12	15:M1:605:THR:HG22	1.69	0.75
11:I1:946:THR:HG23	17:O1:260:LEU:H	1.46	0.75
11:I1:990:GLU:HG3	17:O1:275:LEU:CD2	2.04	0.75
11:I1:1668:HIS:CB	11:I2:1668:HIS:O	2.33	0.75
11:I2:797:LEU:HD13	17:O3:245:GLU:HA	0.83	0.75
11:I2:1043:LEU:HA	16:N3:430:ARG:CG	2.16	0.75
11:I3:1278:ALA:CB	26:X1:520:GLU:N	2.45	0.75
11:I4:1275:SER:CB	26:X3:525:ILE:HD12	2.17	0.75
17:O3:148:ARG:HD2	18:P3:325:ILE:HG23	1.68	0.75
26:X1:141:ASN:O	26:X1:145:ASN:ND2	2.18	0.75
28:Z1:555:LYS:HB3	30:b1:212:PHE:HA	1.68	0.75
28:Z3:410:ASN:HB3	30:b3:251:ILE:HD12	1.55	0.75
1:A1:1402:ASP:H	2:A2:884:ARG:NH1	1.85	0.75
2:A2:1114:ILE:CD1	5:C2:731:LYS:CB	2.58	0.75
2:A4:868:GLN:CD	6:D3:608:ILE:HB	2.11	0.75
2:A4:1148:ARG:O	5:C4:730:HIS:N	2.20	0.75
3:A6:180:GLU:CB	5:C4:744:PHE:HZ	2.00	0.75
3:A6:232:LEU:CD2	5:C4:740:ARG:CG	2.62	0.75
8:F1:1138:TRP:N	17:O2:244:GLU:O	2.20	0.75
11:I1:797:LEU:CD2	17:O1:241:SER:OG	2.35	0.75
11:I1:922:ASP:CA	15:M1:592:LEU:HD23	2.16	0.75
11:I1:945:LEU:CG	17:O1:258:GLU:N	2.49	0.75
11:I1:1021:ILE:CG1	16:N1:410:MET:CA	2.62	0.75
11:I1:1109:LEU:HG	16:N1:438:LEU:CD2	2.16	0.75
11:I1:1426:SER:OG	12:J1:263:MET:SD	2.45	0.75
11:I2:931:VAL:C	15:M3:605:THR:CG2	2.42	0.75
11:I2:1030:ARG:H	20:R3:171:ALA:C	1.94	0.75
11:I2:1030:ARG:CB	20:R3:172:ASP:O	2.35	0.75
11:I2:1426:SER:OG	12:J2:263:MET:SD	2.45	0.75
11:I4:767:ASP:OD1	11:I4:771:ASN:ND2	2.20	0.75
17:O3:151:LEU:HD22	18:P3:325:ILE:CG1	0.70	0.75
24:V2:416:ASP:HA	24:V2:443:THR:HG21	1.66	0.75
24:V3:292:ILE:HD12	24:V3:292:ILE:H	1.52	0.75
28:Z1:523:ASP:CG	30:b1:239:THR:OG1	2.30	0.75
28:Z1:555:LYS:CG	30:b1:233:TRP:CE3	2.69	0.75
28:Z3:406:ARG:HG3	30:b3:252:ALA:HB1	1.66	0.75
28:Z3:523:ASP:C	30:b3:208:ASN:OD1	2.29	0.75
28:Z3:561:GLN:CD	30:b3:237:LEU:N	2.44	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:410:ASN:CB	30:b4:251:ILE:HB	2.16	0.75
28:Z4:526:ARG:CA	30:b4:206:ASN:OD1	2.33	0.75
28:Z4:531:LYS:HD3	30:b4:182:PRO:C	2.12	0.75
28:Z4:555:LYS:CG	30:b4:233:TRP:CE3	2.69	0.75
28:Z4:561:GLN:CG	30:b4:236:THR:N	2.48	0.75
2:A2:1141:GLU:N	3:A5:130:ILE:N	2.33	0.75
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CB	2.64	0.75
3:A5:1381:ALA:CB	28:Z2:810:ASP:HA	2.17	0.75
3:A6:1384:ALA:O	28:Z4:863:ASP:CA	2.35	0.75
6:D1:283:LEU:HD12	6:D1:284:GLY:N	2.01	0.75
6:D2:283:LEU:HD12	6:D2:284:GLY:N	2.01	0.75
6:D7:283:LEU:HD12	6:D7:284:GLY:N	2.01	0.75
11:I1:841:PHE:O	15:M1:588:MET:HA	1.86	0.75
11:I1:937:TYR:HB3	17:O1:258:GLU:N	2.01	0.75
11:I1:958:THR:HB	16:N1:399:HIS:CA	2.16	0.75
11:I1:965:ALA:CB	20:R1:164:PRO:HA	2.17	0.75
11:I1:1114:VAL:H	16:N1:435:ALA:CB	1.88	0.75
11:I1:1605:LEU:CD1	11:I2:1669:ARG:CD	2.39	0.75
11:I2:833:PHE:CE2	17:O3:242:ARG:N	2.55	0.75
11:I2:898:VAL:HG12	17:O3:235:ASN:HB3	1.69	0.75
11:I2:951:LYS:CB	17:O3:253:LEU:CD2	2.56	0.75
28:Z1:522:ASN:OD1	30:b1:241:PRO:HB3	1.86	0.75
28:Z1:528:ILE:CG1	30:b1:210:ARG:CZ	2.52	0.75
28:Z2:410:ASN:HB3	30:b2:251:ILE:HD12	1.55	0.75
28:Z4:438:GLU:CB	30:b4:314:PRO:HG2	2.15	0.75
1:A1:1197:ALA:HB1	2:A2:728:LYS:NZ	1.86	0.75
2:A4:864:ARG:NE	6:D3:610:ASN:OD1	2.19	0.75
2:A4:988:ARG:HD2	6:D3:500:LYS:HG3	1.63	0.75
2:A4:1055:ARG:CD	6:D4:762:ARG:C	2.58	0.75
2:A4:1161:ALA:HB3	3:A6:137:HIS:NE2	1.99	0.75
3:A5:232:LEU:H	5:C2:740:ARG:CD	1.97	0.75
3:A5:1398:LYS:CG	28:Z2:873:LEU:O	2.34	0.75
3:A6:234:LEU:H	5:C4:737:LYS:HB3	1.49	0.75
3:A6:1335:ALA:HB2	28:Z4:962:LYS:CB	2.15	0.75
3:A6:1414:PHE:N	28:Z4:964:LEU:HA	1.99	0.75
11:I1:797:LEU:CG	17:O1:245:GLU:HG2	2.16	0.75
11:I1:882:LYS:CB	17:O1:245:GLU:CB	2.60	0.75
11:I1:931:VAL:CG2	15:M1:604:ASN:CG	2.60	0.75
11:I1:945:LEU:HD23	17:O1:259:ASP:CA	2.14	0.75
11:I1:1662:ARG:CD	11:I2:1603:ARG:NH1	2.33	0.75
11:I2:925:LEU:CD1	20:R3:156:GLY:CA	2.63	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:977:ASN:HB2	20:R3:150:ASN:HB2	1.68	0.75
11:I2:1051:LYS:HE2	17:O3:289:ASP:CG	2.11	0.75
11:I5:767:ASP:OD1	11:I5:771:ASN:ND2	2.20	0.75
17:O4:111:TYR:N	18:P1:278:ASN:HD22	1.84	0.75
28:Z2:561:GLN:CG	30:b2:235:LEU:CD2	2.61	0.75
28:Z3:524:VAL:N	30:b3:238:ASN:CA	2.49	0.75
28:Z3:561:GLN:CG	30:b3:235:LEU:CD2	2.61	0.75
2:A2:1160:GLN:HG3	3:A5:166:LEU:O	1.87	0.75
1:A3:777:LEU:HD12	1:A3:822:ILE:HD11	1.66	0.75
3:A5:1026:PRO:HG3	11:I5:102:ILE:HD13	1.68	0.75
3:A5:1378:GLY:C	28:Z2:812:LEU:CB	2.59	0.75
9:G1:262:SER:CA	17:O2:256:TYR:OH	2.35	0.75
11:I1:899:LEU:O	17:O1:232:LYS:CE	2.34	0.75
11:I1:963:LEU:C	20:R1:165:SER:CB	2.60	0.75
11:I1:980:ILE:O	15:M1:618:GLN:HA	1.85	0.75
11:I1:1043:LEU:HD23	16:N1:430:ARG:CB	2.17	0.75
11:I1:1045:PHE:CE1	16:N1:431:VAL:O	2.38	0.75
11:I1:1109:LEU:N	16:N1:440:GLU:C	2.30	0.75
11:I2:841:PHE:CG	15:M3:588:MET:HG3	2.21	0.75
11:I2:882:LYS:C	17:O3:245:GLU:C	2.46	0.75
11:I2:890:TYR:CA	17:O3:238:ALA:O	2.35	0.75
11:I2:934:LEU:HB2	15:M3:601:ASP:O	1.87	0.75
11:I2:977:ASN:O	20:R3:148:ALA:CA	2.32	0.75
11:I2:1048:GLU:H	17:O3:287:LEU:HD22	1.48	0.75
11:I2:1106:LYS:CB	16:N3:440:GLU:CD	2.48	0.75
11:I4:1274:HIS:ND1	26:X3:531:LEU:HD11	2.01	0.75
11:I4:1276:GLN:NE2	26:X3:526:CYS:SG	2.58	0.75
17:O4:110:LEU:H	18:P4:318:PRO:CB	1.99	0.75
24:V4:292:ILE:HD12	24:V4:292:ILE:H	1.52	0.75
28:Z1:557:CYS:HB2	30:b1:210:ARG:NH1	1.97	0.75
28:Z2:531:LYS:HZ3	30:b2:166:LEU:HB2	1.50	0.75
28:Z3:544:MET:HE1	30:b3:181:TYR:CA	2.05	0.75
2:A2:865:ALA:O	6:D1:608:ILE:HD13	1.87	0.75
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD11	1.66	0.75
1:A3:1021:LEU:CD1	6:D3:816:VAL:C	2.60	0.75
1:A3:1056:PHE:CE2	6:D3:808:ASN:N	2.52	0.75
1:A3:1399:ARG:HB3	2:A4:884:ARG:NE	2.02	0.75
2:A4:869:ALA:HA	6:D3:548:LEU:HD11	1.69	0.75
2:A4:1138:GLU:N	3:A6:138:LEU:CD1	2.50	0.75
3:A5:1369:ILE:CD1	28:Z2:832:PHE:H	1.90	0.75
3:A5:1372:THR:HB	28:Z2:828:LEU:CA	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:157:TRP:HH2	5:C4:747:PRO:N	1.83	0.75
9:G1:251:TYR:O	15:M2:602:MET:SD	2.45	0.75
9:G1:256:GLN:NE2	9:G1:263:MET:SD	2.60	0.75
11:I1:913:ALA:N	15:M1:584:GLN:NE2	2.31	0.75
11:I1:947:LEU:HD11	16:N1:411:GLN:CB	2.17	0.75
11:I1:955:LYS:CD	17:O1:249:ARG:NH2	2.49	0.75
11:I1:1043:LEU:CD2	16:N1:430:ARG:HB2	2.17	0.75
11:I2:891:LEU:CA	17:O3:239:GLN:HB3	2.11	0.75
11:I2:952:LEU:O	16:N3:403:VAL:HG21	1.85	0.75
11:I2:1052:LEU:HG	17:O3:283:ALA:HB1	1.67	0.75
21:S2:176:MET:HE1	21:S2:232:LEU:HD12	1.69	0.75
23:U1:70:LEU:HD22	23:U1:343:ILE:HD11	1.68	0.75
28:Z1:549:LYS:HB3	30:b1:182:PRO:CD	2.17	0.75
28:Z3:406:ARG:HG3	30:b3:252:ALA:HB3	1.68	0.75
28:Z3:410:ASN:ND2	30:b3:252:ALA:CA	2.49	0.75
28:Z3:527:SER:OG	30:b3:210:ARG:NE	2.19	0.75
28:Z4:527:SER:HA	30:b4:204:GLU:CB	2.17	0.75
1:A1:1204:TRP:HD1	2:A2:731:ILE:HG13	1.52	0.74
3:A5:1029:ILE:O	11:I5:69:GLY:O	2.05	0.74
3:A5:1416:ARG:C	28:Z2:963:LYS:HA	2.12	0.74
3:A6:177:ILE:HA	5:C4:740:ARG:NH1	2.01	0.74
3:A6:1324:ASP:CG	28:Z4:907:LEU:CA	2.57	0.74
4:B6:345:LYS:N	5:C4:737:LYS:CD	2.49	0.74
8:F1:158:PRO:CD	11:I1:1207:PRO:CD	2.64	0.74
8:F1:1137:GLN:HB2	17:O2:245:GLU:C	2.11	0.74
11:I1:923:GLY:C	15:M1:591:ASP:O	2.30	0.74
11:I1:998:ALA:CB	17:O1:267:ALA:HB2	2.17	0.74
11:I2:898:VAL:CB	17:O3:236:ASP:CA	2.61	0.74
11:I2:950:LEU:O	16:N3:403:VAL:HG13	1.86	0.74
11:I2:955:LYS:H	16:N3:403:VAL:HG23	0.59	0.74
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG21	2.02	0.74
11:I2:1045:PHE:CZ	16:N3:434:LEU:CB	2.50	0.74
11:I2:1103:LEU:HD22	20:R3:174:ARG:HB3	1.69	0.74
11:I3:767:ASP:OD1	11:I3:771:ASN:ND2	2.20	0.74
11:I3:1266:ALA:O	26:X1:527:VAL:O	2.05	0.74
18:P2:320:GLN:CD	18:P3:278:ASN:HB2	2.10	0.74
28:Z1:524:VAL:HG13	30:b1:236:THR:CA	2.16	0.74
28:Z1:531:LYS:HD3	30:b1:182:PRO:C	2.11	0.74
28:Z2:523:ASP:CG	30:b2:239:THR:OG1	2.30	0.74
28:Z4:544:MET:HE1	30:b4:181:TYR:CA	2.05	0.74
1:A1:1054:SER:OG	6:D1:809:ALA:CB	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:823:VAL:O	2:A2:856:PHE:CE1	2.40	0.74
2:A2:982:THR:CG2	6:D1:494:LEU:HA	2.16	0.74
2:A2:983:LEU:HB2	6:D1:528:PHE:HE1	1.47	0.74
2:A4:781:ARG:HH12	6:D3:674:TYR:HE1	1.35	0.74
2:A4:823:VAL:O	2:A4:856:PHE:CE1	2.40	0.74
2:A4:827:ILE:O	2:A4:863:GLN:HB3	0.92	0.74
2:A4:869:ALA:CA	6:D3:570:VAL:HG13	2.12	0.74
3:A5:229:SER:CA	5:C2:739:MET:HE2	2.16	0.74
3:A6:1368:GLN:HE21	28:Z4:825:TYR:HA	1.51	0.74
9:G1:254:ASN:ND2	17:O2:261:LYS:HE2	2.03	0.74
9:G2:256:GLN:N	17:O4:262:ASP:CG	2.44	0.74
11:I1:837:MET:HE3	17:O1:243:LEU:H	1.51	0.74
11:I1:874:LEU:CA	17:O1:252:VAL:HA	2.17	0.74
11:I1:885:GLU:OE2	17:O1:249:ARG:NH1	2.20	0.74
11:I1:955:LYS:HG2	16:N1:397:GLU:O	1.87	0.74
11:I1:989:GLY:CA	15:M1:614:ASP:OD1	2.35	0.74
11:I1:1018:LYS:N	16:N1:413:VAL:H	1.85	0.74
11:I1:1048:GLU:HA	20:R1:143:PHE:HE1	1.50	0.74
11:I2:952:LEU:HD12	16:N3:400:LEU:CD2	2.17	0.74
11:I2:977:ASN:O	20:R3:148:ALA:C	2.30	0.74
11:I2:1039:ALA:HB3	20:R3:170:LEU:N	2.02	0.74
11:I5:1236:TYR:HE1	29:a2:24[B]:GLY:C	1.95	0.74
21:S3:682:ASN:C	21:S3:684:THR:HA	2.13	0.74
27:Y4:41:ASP:CA	29:a4:230:GLN:OE1	2.28	0.74
28:Z1:410:ASN:ND2	30:b1:252:ALA:CA	2.49	0.74
28:Z1:522:ASN:OD1	30:b1:241:PRO:HG3	1.84	0.74
28:Z2:410:ASN:CB	30:b2:251:ILE:HB	2.16	0.74
28:Z2:524:VAL:N	30:b2:238:ASN:CA	2.49	0.74
28:Z4:410:ASN:ND2	30:b4:252:ALA:CA	2.50	0.74
2:A2:827:ILE:C	2:A2:863:GLN:HB3	1.81	0.74
2:A4:968:SER:OG	6:D3:201:LEU:CA	2.34	0.74
2:A4:980:ARG:N	6:D3:473:GLU:HA	2.00	0.74
3:A5:1411:ARG:HH21	26:X2:744:MET:C	1.94	0.74
3:A6:1391:ARG:HD2	28:Z4:869:HIS:H	0.63	0.74
6:D4:283:LEU:HD12	6:D4:284:GLY:N	2.01	0.74
11:I1:900:ARG:CG	17:O1:232:LYS:HZ3	2.00	0.74
11:I1:1048:GLU:CD	20:R1:143:PHE:CB	2.60	0.74
11:I1:1109:LEU:CG	16:N1:438:LEU:HD23	2.15	0.74
11:I2:873:ILE:C	17:O3:255:GLY:CA	2.60	0.74
11:I2:879:VAL:C	17:O3:250:LEU:N	2.46	0.74
11:I2:1020:ALA:CB	16:N3:409:ALA:N	2.44	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1040:HIS:HE1	15:M3:623:LEU:HD11	0.96	0.74
23:U4:70:LEU:HD22	23:U4:343:ILE:HD11	1.68	0.74
24:V1:292:ILE:H	24:V1:292:ILE:HD12	1.52	0.74
26:X2:152:LEU:HD21	26:X2:182:LEU:HB3	1.70	0.74
28:Z1:524:VAL:N	30:b1:238:ASN:CA	2.49	0.74
28:Z3:555:LYS:HE3	30:b3:216:LEU:HD22	1.31	0.74
28:Z4:438:GLU:HG3	30:b4:333:HIS:CE1	2.20	0.74
28:Z4:549:LYS:HB3	30:b4:182:PRO:HG3	1.69	0.74
28:Z4:561:GLN:OE1	30:b4:237:LEU:N	2.19	0.74
1:A1:1332:ARG:O	6:D1:637:LYS:HD2	1.85	0.74
1:A3:1048:ARG:NE	6:D3:790:ARG:NH2	2.34	0.74
2:A4:877:ALA:N	6:D3:563:GLU:HB3	1.94	0.74
2:A4:978:ASP:O	6:D3:476:VAL:N	2.21	0.74
8:F1:1094:GLY:C	17:O2:237:PRO:HB3	2.13	0.74
11:I1:767:ASP:OD1	11:I1:771:ASN:ND2	2.20	0.74
11:I1:912:VAL:N	15:M1:584:GLN:HE21	1.84	0.74
11:I1:1046:HIS:CG	17:O1:280:GLU:O	2.41	0.74
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG3	1.69	0.74
11:I1:1068:HIS:HE1	16:N1:431:VAL:CB	2.01	0.74
11:I1:1543:LEU:C	12:J2:300:ILE:HA	2.09	0.74
11:I2:895:ARG:CD	17:O3:234:LEU:HD12	2.15	0.74
11:I2:1031:ALA:HB3	20:R3:168:LEU:CD2	2.14	0.74
11:I2:1038:ILE:HG23	15:M3:617:THR:HA	1.69	0.74
11:I4:1276:GLN:HG3	26:X3:522:MET:HE2	1.67	0.74
11:I5:1279:THR:OG1	26:X2:520:GLU:C	2.30	0.74
21:S4:176:MET:HE1	21:S4:232:LEU:HD12	1.69	0.74
28:Z3:443:LEU:HD21	30:b3:250:GLY:HA3	1.68	0.74
28:Z3:523:ASP:CG	30:b3:239:THR:OG1	2.30	0.74
1:A1:834:GLU:CB	6:D3:302:PRO:CB	2.65	0.74
2:A2:226:PRO:HD3	6:D1:708:ASP:CB	1.76	0.74
2:A2:873:PRO:HA	6:D1:563:GLU:HB3	1.70	0.74
2:A2:970:PHE:CA	6:D1:202:GLN:HG3	2.17	0.74
1:A3:1198:GLU:C	2:A4:729:SER:C	2.55	0.74
2:A4:976:LEU:CD1	6:D3:472:PHE:CD2	2.60	0.74
2:A4:1139:ILE:C	3:A6:130:ILE:CG2	2.61	0.74
3:A5:996:ASN:CG	11:I5:54:LYS:O	2.30	0.74
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD12	1.67	0.74
3:A6:1310:ARG:H	28:Z4:827:GLN:HA	1.50	0.74
9:G2:256:GLN:CD	17:O4:263:GLN:H	1.95	0.74
11:I1:1037:THR:C	20:R1:169:GLY:CA	2.58	0.74
11:I1:1048:GLU:OE2	20:R1:143:PHE:HA	1.87	0.74

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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	0.74
11:I2:945:LEU:HD12	17:O3:258:GLU:H	1.52	0.74
11:I2:957:SER:CB	20:R3:167:GLN:O	2.35	0.74
11:I2:977:ASN:CA	20:R3:150:ASN:CB	1.89	0.74
11:I2:1058:GLY:HA3	17:O3:277:GLU:C	2.13	0.74
22:T3:871:TYR:CE1	22:T3:910:MET:HB3	2.23	0.74
28:Z2:113:VAL:HG23	28:Z2:114:GLU:H	1.49	0.74
28:Z2:549:LYS:HB3	30:b2:182:PRO:CD	2.17	0.74
28:Z4:539:GLU:OE1	30:b4:165:THR:N	2.15	0.74
1:A1:870:HIS:CB	6:D3:279:HIS:CA	2.66	0.74
1:A1:1201:ARG:HH11	2:A2:734:LEU:HD21	1.50	0.74
1:A1:1223:GLU:OE1	2:A2:761:GLN:OE1	2.05	0.74
2:A2:1156:ASP:C	3:A5:167:TRP:HB2	2.12	0.74
3:A5:1135:ARG:HE	5:C5:743:LEU:HD12	1.52	0.74
3:A5:1160:GLN:HE21	5:C5:740:ARG:HD2	1.52	0.74
11:I1:834:SER:CA	17:O1:237:PRO:O	2.32	0.74
11:I1:884:LEU:HD13	16:N1:396:ILE:HG22	0.75	0.74
11:I1:887:GLN:O	17:O1:239:GLN:OE1	2.06	0.74
11:I1:921:GLU:CD	16:N1:392:THR:C	2.56	0.74
11:I1:931:VAL:C	15:M1:604:ASN:HB2	2.12	0.74
11:I1:950:LEU:H	16:N1:407:ALA:HB2	1.52	0.74
11:I1:1663:LYS:CD	11:I2:1663:LYS:N	2.17	0.74
11:I2:966:TRP:C	20:R3:150:ASN:O	2.31	0.74
11:I2:980:ILE:CA	15:M3:618:GLN:CA	2.53	0.74
11:I2:1029:LEU:HD22	16:N3:437:VAL:HG21	1.69	0.74
11:I2:1039:ALA:HB2	20:R3:170:LEU:HB2	1.69	0.74
23:U3:70:LEU:HD22	23:U3:343:ILE:HD11	1.68	0.74
28:Z1:527:SER:HA	30:b1:204:GLU:CB	2.17	0.74
28:Z2:410:ASN:ND2	30:b2:252:ALA:CA	2.50	0.74
28:Z2:531:LYS:HZ1	30:b2:166:LEU:HB3	1.49	0.74
28:Z3:555:LYS:HB3	30:b3:212:PHE:HA	1.68	0.74
2:A2:227:SER:HB3	6:D1:712:ASP:N	2.02	0.74
2:A2:876:ARG:N	6:D1:564:ASN:O	2.19	0.74
2:A2:978:ASP:O	6:D1:473:GLU:CA	2.35	0.74
2:A2:1148:ARG:O	5:C2:730:HIS:N	2.20	0.74
2:A4:971:ALA:H	6:D3:202:GLN:CG	1.87	0.74
3:A6:1372:THR:CB	28:Z4:822:SER:O	2.27	0.74
3:A6:1395:LYS:CD	28:Z4:889:LEU:O	2.35	0.74
8:F1:1136:GLN:C	17:O2:248:SER:OG	2.31	0.74
11:I1:923:GLY:HA3	15:M1:591:ASP:N	2.03	0.74
11:I1:939:ASN:HA	17:O1:264:ILE:C	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:946:THR:N	17:O1:256:TYR:CD2	2.56	0.74
11:I1:947:LEU:CB	17:O1:256:TYR:CZ	2.50	0.74
11:I1:948:ALA:CB	17:O1:252:VAL:O	2.36	0.74
11:I1:965:ALA:HB1	20:R1:164:PRO:HA	1.69	0.74
11:I1:980:ILE:HG12	15:M1:621:ARG:HB3	1.67	0.74
11:I1:1021:ILE:N	16:N1:406:HIS:C	2.33	0.74
11:I1:1052:LEU:CD1	17:O1:287:LEU:HD11	2.16	0.74
11:I2:936:LYS:HA	15:M3:609:GLY:CA	2.18	0.74
11:I2:995:SER:HA	17:O3:267:ALA:CA	2.06	0.74
11:I2:1058:GLY:HA3	17:O3:277:GLU:O	1.87	0.74
11:I5:1239:ASP:HB3	29:a2:27:GLN:NE2	2.02	0.74
21:S1:176:MET:HE1	21:S1:232:LEU:HD12	1.69	0.74
28:Z3:549:LYS:HB3	30:b3:182:PRO:CD	2.17	0.74
28:Z3:561:GLN:HG2	30:b3:235:LEU:HD23	1.66	0.74
1:A1:1398:LYS:C	2:A2:884:ARG:NH2	2.23	0.74
2:A2:872:ALA:HB1	6:D1:565:MET:SD	2.27	0.74
2:A4:1158:ALA:O	4:B6:342:ARG:N	2.19	0.74
3:A6:165:PHE:CD1	5:C4:743:LEU:HD22	2.23	0.74
3:A6:1387:ILE:C	28:Z4:867:LYS:H	1.95	0.74
8:F1:1138:TRP:CA	17:O2:244:GLU:HB3	2.16	0.74
11:I1:961:ARG:O	20:R1:165:SER:HB3	1.87	0.74
11:I1:1046:HIS:HB2	17:O1:280:GLU:CA	2.17	0.74
11:I1:1669:ARG:NE	11:I2:1605:LEU:HB2	2.03	0.74
11:I2:900:ARG:HG3	17:O3:232:LYS:CE	2.17	0.74
11:I2:946:THR:HA	17:O3:257:ALA:O	1.87	0.74
11:I2:955:LYS:CB	16:N3:403:VAL:HG23	2.18	0.74
11:I2:982:GLN:H	15:M3:621:ARG:NH1	1.85	0.74
11:I2:1109:LEU:CD1	17:O3:286:ILE:CG2	2.34	0.74
11:I3:1268:LYS:O	26:X1:524:SER:O	2.06	0.74
11:I3:1276:GLN:N	26:X1:522:MET:CB	2.32	0.74
11:I5:1273:GLU:C	26:X2:524:SER:CB	2.42	0.74
22:T4:871:TYR:CE1	22:T4:910:MET:HB3	2.23	0.74
24:V2:292:ILE:HD12	24:V2:292:ILE:H	1.52	0.74
26:X1:152:LEU:HD21	26:X1:182:LEU:HB3	1.70	0.74
28:Z3:402:GLY:CA	30:b3:273:LYS:CB	2.66	0.74
2:A2:779:ASP:H	6:D1:678:GLY:CA	1.91	0.74
2:A2:872:ALA:CB	6:D1:565:MET:CE	2.65	0.74
2:A2:986:THR:HG1	6:D1:497:PHE:HE1	0.76	0.74
2:A2:1153:LEU:O	3:A5:174:PRO:C	2.31	0.74
2:A4:868:GLN:CD	6:D3:570:VAL:HG12	2.12	0.74
2:A4:878:LEU:C	6:D3:567:LEU:HD12	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1092:ASN:HA	11:I5:33:THR:CG2	2.17	0.74
3:A6:1401:VAL:O	28:Z4:922:LEU:CB	2.36	0.74
8:F1:1137:GLN:HB3	17:O2:248:SER:H	0.58	0.74
9:G1:254:ASN:HD21	17:O2:261:LYS:HE2	1.51	0.74
11:I1:924:ILE:HD13	15:M1:595:MET:SD	2.27	0.74
11:I1:942:HIS:N	17:O1:259:ASP:O	2.20	0.74
11:I1:1038:ILE:HG13	20:R1:167:GLN:HG3	1.68	0.74
21:S2:682:ASN:C	21:S2:684:THR:HA	2.13	0.74
22:T2:871:TYR:CE1	22:T2:910:MET:HB3	2.23	0.74
26:X3:152:LEU:HD21	26:X3:182:LEU:HB3	1.70	0.74
28:Z2:555:LYS:CG	30:b2:233:TRP:CE3	2.69	0.74
28:Z4:523:ASP:CG	30:b4:239:THR:OG1	2.30	0.74
1:A1:1070:ASP:OD2	11:I1:1238:LYS:C	2.31	0.74
1:A1:1223:GLU:CG	2:A2:724:LEU:HB3	2.17	0.74
2:A4:1156:ASP:OD1	3:A6:166:LEU:O	2.06	0.74
3:A5:1392:ARG:HG3	28:Z2:866:GLU:C	2.11	0.74
3:A6:232:LEU:HA	5:C4:738:ASP:CB	2.14	0.74
8:F1:1262:HIS:NE2	17:O2:259:ASP:CB	2.35	0.74
9:G2:256:GLN:NE2	9:G2:263:MET:SD	2.60	0.74
11:I1:853:ILE:HG23	17:O1:254:ARG:CG	2.18	0.74
11:I1:920:PHE:CD1	17:O1:243:LEU:HD22	2.23	0.74
11:I1:987:GLY:HA3	15:M1:611:LYS:HG2	0.74	0.74
11:I1:1037:THR:CG2	20:R1:170:LEU:N	2.48	0.74
11:I1:1103:LEU:O	20:R1:174:ARG:NE	2.07	0.74
11:I1:1109:LEU:CA	16:N1:441:PHE:H	2.01	0.74
11:I2:873:ILE:HG22	17:O3:255:GLY:HA2	1.68	0.74
11:I2:911:PRO:CB	15:M3:584:GLN:HE22	1.69	0.74
11:I2:966:TRP:CD1	20:R3:154:ALA:C	2.42	0.74
21:S1:1037:CYS:HB3	21:S1:1039:GLU:HG2	1.70	0.74
21:S3:176:MET:HE2	21:S3:212:LEU:CD1	2.11	0.74
22:T1:871:TYR:CE1	22:T1:910:MET:HB3	2.23	0.74
28:Z2:526:ARG:CA	30:b2:206:ASN:OD1	2.33	0.74
28:Z4:555:LYS:HB3	30:b4:212:PHE:HA	1.68	0.74
1:A1:1332:ARG:CD	6:D1:636:ASP:OD1	2.34	0.73
2:A2:874:VAL:HG23	6:D1:571:SER:HB2	1.70	0.73
2:A2:978:ASP:N	6:D1:496:LEU:HD12	2.02	0.73
2:A4:198:VAL:O	4:B4:353:LEU:HB2	1.88	0.73
2:A4:867:GLU:CB	6:D3:605:THR:HG21	2.16	0.73
2:A4:874:VAL:HG12	6:D3:608:ILE:HG22	1.70	0.73
2:A4:980:ARG:HD2	6:D3:526:LEU:H	1.53	0.73
3:A5:177:ILE:C	5:C2:743:LEU:HD22	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:232:LEU:CD1	5:C2:740:ARG:CA	2.66	0.73
3:A5:999:SER:CB	11:I5:63:PRO:HD2	2.17	0.73
3:A6:164:LEU:HD11	5:C4:741:THR:C	2.11	0.73
3:A6:1351:MSE:CB	28:Z4:917:ASP:CA	2.38	0.73
11:I1:945:LEU:CD2	17:O1:258:GLU:CB	2.45	0.73
11:I1:1017:VAL:HG13	17:O1:260:LEU:HD21	1.70	0.73
11:I1:1021:ILE:CG2	16:N1:406:HIS:CE1	2.67	0.73
11:I1:1034:ASP:HB2	15:M1:630:LEU:HD13	1.69	0.73
11:I1:1070:LEU:HB2	16:N1:429:GLU:HB3	1.70	0.73
11:I1:1610:VAL:HG13	11:I2:1673:VAL:HG21	1.68	0.73
11:I2:951:LYS:HD2	16:N3:402:GLY:C	2.13	0.73
11:I4:1426:SER:OG	12:J4:263:MET:SD	2.45	0.73
28:Z2:549:LYS:HB3	30:b2:182:PRO:HG3	1.69	0.73
28:Z4:523:ASP:C	30:b4:208:ASN:OD1	2.29	0.73
28:Z4:549:LYS:HB3	30:b4:182:PRO:CD	2.17	0.73
2:A2:198:VAL:O	4:B2:353:LEU:HB2	1.88	0.73
2:A4:861:GLN:NE2	6:D3:607:PRO:CB	2.49	0.73
2:A4:970:PHE:HB3	6:D3:498:GLU:HB3	1.70	0.73
3:A6:1364:GLN:CB	28:Z4:846:SER:CA	2.09	0.73
3:A6:1406:GLY:H	28:Z4:924:ARG:H	1.28	0.73
9:G2:257:THR:C	17:O4:259:ASP:H	1.95	0.73
9:G2:263:MET:CE	17:O4:263:GLN:OE1	2.35	0.73
11:I1:837:MET:HE3	17:O1:239:GLN:O	1.89	0.73
11:I1:880:MET:CB	17:O1:250:LEU:H	2.00	0.73
11:I1:895:ARG:NH2	17:O1:233:THR:CG2	2.51	0.73
11:I1:1055:GLU:CD	17:O1:280:GLU:HG3	2.14	0.73
11:I2:990:GLU:HB3	17:O3:272:SER:CB	2.17	0.73
11:I2:1029:LEU:CD1	16:N3:433:GLU:HG3	2.15	0.73
11:I2:1049:LEU:HD11	17:O3:291:ASP:OD1	1.88	0.73
21:S1:1032:ILE:CD1	21:S1:1054:LEU:HB2	2.14	0.73
21:S4:682:ASN:C	21:S4:684:THR:HA	2.13	0.73
28:Z3:524:VAL:HA	30:b3:236:THR:HG23	1.70	0.73
28:Z3:531:LYS:HD3	30:b3:182:PRO:C	2.11	0.73
28:Z3:549:LYS:HB3	30:b3:182:PRO:HG3	1.70	0.73
2:A2:777:LEU:HA	6:D1:678:GLY:HA3	1.66	0.73
2:A2:782:VAL:N	6:D1:677:GLN:N	2.36	0.73
2:A2:827:ILE:CD1	2:A2:859:GLN:CB	2.61	0.73
2:A2:876:ARG:HG3	6:D1:558:LYS:HG2	1.69	0.73
2:A4:865:ALA:N	6:D3:604:ASP:O	2.20	0.73
2:A4:868:GLN:HE21	6:D3:608:ILE:CB	1.88	0.73
2:A4:1161:ALA:CA	3:A6:180:GLU:OE2	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1392:ARG:HD3	28:Z2:866:GLU:C	2.12	0.73
3:A6:234:LEU:CD2	5:C4:737:LYS:O	2.36	0.73
3:A6:1135:ARG:HE	5:C6:743:LEU:HD12	1.53	0.73
8:F1:1264:ARG:HH12	17:O2:264:ILE:HA	1.53	0.73
11:I1:881:ILE:CD1	17:O1:253:LEU:CD1	2.59	0.73
11:I1:1026:TYR:CD1	20:R1:175:GLN:OE1	2.41	0.73
11:I1:1036:PRO:HD2	15:M1:623:LEU:O	1.88	0.73
11:I1:1049:LEU:CD1	15:M1:626:HIS:HD2	1.56	0.73
11:I1:1052:LEU:CA	17:O1:283:ALA:O	2.35	0.73
11:I1:1611:PHE:HA	11:I2:1673:VAL:H	1.48	0.73
11:I2:989:GLY:CA	15:M3:614:ASP:CB	2.66	0.73
11:I4:1271:GLU:N	26:X3:529:TRP:CD1	2.55	0.73
21:S1:682:ASN:C	21:S1:684:THR:HA	2.13	0.73
21:S2:408:THR:HG22	21:S2:418:TYR:HB2	1.70	0.73
26:X4:152:LEU:HD21	26:X4:182:LEU:HB3	1.70	0.73
28:Z2:411:LEU:CD2	30:b2:251:ILE:CG2	2.54	0.73
28:Z2:527:SER:HA	30:b2:204:GLU:CB	2.17	0.73
28:Z3:527:SER:HA	30:b3:204:GLU:CB	2.17	0.73
1:A1:1224:PRO:N	2:A2:731:ILE:HD13	2.04	0.73
1:A1:1393:THR:OG1	2:A2:851:ASP:OD1	2.07	0.73
2:A2:909:LYS:HZ3	6:D1:601:PHE:HD1	1.34	0.73
2:A2:989:MSE:CA	6:D1:500:LYS:CE	2.66	0.73
2:A2:1142:PHE:CD2	3:A5:128:HIS:O	2.23	0.73
1:A3:1332:ARG:CZ	6:D3:636:ASP:OD1	2.36	0.73
2:A4:861:GLN:O	6:D3:607:PRO:HD3	1.73	0.73
2:A4:867:GLU:OE2	6:D3:605:THR:HB	1.89	0.73
2:A4:974:PRO:C	6:D3:499:LEU:CD1	2.59	0.73
2:A4:1148:ARG:HH12	3:A6:167:TRP:CD1	2.06	0.73
3:A6:157:TRP:CH2	5:C4:747:PRO:CB	2.70	0.73
3:A6:180:GLU:HG2	5:C4:744:PHE:HZ	1.53	0.73
8:F1:1202:TYR:HD1	17:O2:252:VAL:HG21	1.52	0.73
11:I1:1045:PHE:CZ	16:N1:431:VAL:C	2.66	0.73
11:I2:896:PRO:CD	17:O3:233:THR:O	2.35	0.73
11:I2:899:LEU:CD2	17:O3:231:ASP:OD1	2.36	0.73
11:I2:942:HIS:H	17:O3:263:GLN:N	1.86	0.73
11:I5:1277:LEU:CD2	26:X2:517:ASP:HB2	2.18	0.73
21:S1:1016:LYS:CE	21:S1:1039:GLU:HG3	2.19	0.73
21:S4:1032:ILE:CD1	21:S4:1054:LEU:HB2	2.14	0.73
28:Z2:528:ILE:C	30:b2:184:SER:OG	1.99	0.73
2:A2:827:ILE:O	2:A2:863:GLN:HB3	0.92	0.73
3:A6:1356:SER:OG	28:Z4:884:GLU:N	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1264:ARG:NH1	17:O2:264:ILE:HA	2.03	0.73
11:I1:957:SER:HA	20:R1:168:LEU:HG	1.69	0.73
11:I1:1048:GLU:OE2	20:R1:143:PHE:CA	2.36	0.73
11:I2:922:ASP:CG	15:M3:589:GLY:O	2.29	0.73
11:I2:1061:ASP:CB	17:O3:278:GLU:HB2	2.18	0.73
11:I2:1067:PHE:CD1	16:N3:429:GLU:C	2.67	0.73
11:I3:617:ARG:NH1	11:I3:658:ARG:O	2.22	0.73
21:S3:408:THR:HG22	21:S3:418:TYR:HB2	1.70	0.73
21:S4:408:THR:HG22	21:S4:418:TYR:HB2	1.70	0.73
28:Z1:402:GLY:CA	30:b1:273:LYS:CB	2.66	0.73
28:Z1:561:GLN:OE1	30:b1:237:LEU:N	2.19	0.73
2:A2:979:GLY:HA2	6:D1:472:PHE:HB2	0.73	0.73
2:A4:965:LYS:CE	6:D3:196:ILE:O	2.32	0.73
3:A5:150:PHE:CE2	5:C2:742:ASP:N	2.56	0.73
3:A6:233:THR:CA	5:C4:737:LYS:N	2.47	0.73
9:G1:250:THR:C	15:M2:605:THR:CG2	2.42	0.73
11:I1:834:SER:N	17:O1:237:PRO:HB3	2.03	0.73
11:I1:900:ARG:HG3	17:O1:232:LYS:HZ2	1.51	0.73
11:I1:1051:LYS:NZ	17:O1:289:ASP:H	1.86	0.73
11:I2:882:LYS:HG3	17:O3:249:ARG:CA	2.17	0.73
11:I2:934:LEU:O	15:M3:606:LEU:N	2.06	0.73
11:I2:949:CYS:HB2	15:M3:606:LEU:HD13	1.71	0.73
24:V1:483:GLU:CD	24:V1:514:ARG:HH22	1.96	0.73
28:Z2:402:GLY:CA	30:b2:273:LYS:CB	2.66	0.73
28:Z4:443:LEU:HD21	30:b4:250:GLY:HA3	1.68	0.73
2:A2:1164:TYR:CG	4:B5:342:ARG:CG	2.69	0.73
1:A3:1054:SER:O	6:D3:809:ALA:HB2	1.82	0.73
2:A4:971:ALA:CA	6:D3:202:GLN:HG2	2.15	0.73
2:A4:986:THR:HB	6:D3:504:LYS:CE	2.18	0.73
11:I1:884:LEU:HD13	16:N1:396:ILE:HG23	1.59	0.73
11:I1:923:GLY:HA2	15:M1:589:GLY:O	1.88	0.73
11:I1:965:ALA:H	20:R1:165:SER:CB	1.98	0.73
11:I2:617:ARG:NH1	11:I2:658:ARG:O	2.22	0.73
11:I2:949:CYS:SG	15:M3:602:MET:HE2	2.27	0.73
11:I2:978:LYS:C	15:M3:621:ARG:HH11	1.88	0.73
11:I2:1040:HIS:CG	15:M3:623:LEU:HD13	2.19	0.73
11:I3:1270:LYS:N	26:X1:529:TRP:H	1.85	0.73
11:I3:1274:HIS:O	26:X1:508:LEU:HD23	1.88	0.73
17:O1:103:VAL:CG1	18:P1:326:GLN:HE21	1.90	0.73
17:O4:106:HIS:O	18:P4:318:PRO:HD3	1.88	0.73
21:S3:176:MET:HE1	21:S3:232:LEU:HD12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1032:ILE:CD1	21:S3:1054:LEU:HB2	2.14	0.73
23:U2:70:LEU:HD22	23:U2:343:ILE:HD11	1.68	0.73
27:Y3:41:ASP:HB2	29:a3:231[B]:HIS:CE1	2.18	0.73
28:Z3:555:LYS:CG	30:b3:233:TRP:CE3	2.69	0.73
28:Z4:524:VAL:CG2	30:b4:236:THR:HG22	2.19	0.73
2:A2:871:ASN:CA	6:D1:567:LEU:O	2.34	0.73
1:A3:1204:TRP:CB	2:A4:731:ILE:C	2.62	0.73
2:A4:869:ALA:CB	6:D3:583:ILE:HD13	2.17	0.73
2:A4:1125:LEU:O	3:A6:137:HIS:HA	1.84	0.73
3:A5:1414:PHE:CG	28:Z2:960:CYS:CB	2.60	0.73
3:A6:1388:ALA:HA	28:Z4:865:LYS:CB	2.19	0.73
9:G2:256:GLN:HB3	17:O4:262:ASP:H	1.53	0.73
11:I1:840:LEU:HB3	17:O1:243:LEU:HB3	1.69	0.73
11:I1:874:LEU:O	17:O1:252:VAL:CG2	2.36	0.73
11:I1:913:ALA:H	15:M1:584:GLN:HE21	1.35	0.73
11:I1:918:SER:CB	16:N1:389:PHE:CD1	2.44	0.73
11:I1:919:ALA:CA	16:N1:389:PHE:CA	2.59	0.73
11:I1:922:ASP:O	15:M1:593:ALA:CA	2.32	0.73
11:I1:947:LEU:C	16:N1:407:ALA:HB3	2.14	0.73
11:I1:1110:SER:N	16:N1:437:VAL:O	2.20	0.73
11:I2:797:LEU:HD11	17:O3:244:GLU:O	1.89	0.73
11:I2:944:GLU:CB	17:O3:256:TYR:CD1	2.72	0.73
11:I2:965:ALA:HB3	20:R3:154:ALA:HA	1.71	0.73
11:I2:1055:GLU:O	17:O3:278:GLU:CB	2.36	0.73
11:I4:1274:HIS:CB	26:X3:525:ILE:O	2.31	0.73
21:S2:100:GLU:O	21:S2:103:ASP:N	2.21	0.73
21:S3:1016:LYS:CE	21:S3:1039:GLU:HG3	2.19	0.73
28:Z2:524:VAL:HG13	30:b2:236:THR:CA	2.16	0.73
28:Z3:539:GLU:HB2	30:b3:164:CYS:C	2.14	0.73
28:Z4:524:VAL:HA	30:b4:236:THR:HG23	1.70	0.73
28:Z4:524:VAL:HG12	30:b4:236:THR:CG2	2.12	0.73
1:A1:1202:GLU:H	2:A2:729:SER:C	1.97	0.73
1:A1:1332:ARG:O	6:D1:637:LYS:HD3	1.88	0.73
2:A4:1135:ARG:NH1	3:A6:167:TRP:CZ3	2.57	0.73
2:A4:1142:PHE:CD2	3:A6:129:ASN:C	2.66	0.73
2:A4:1161:ALA:HB2	3:A6:137:HIS:NE2	2.03	0.73
3:A5:1026:PRO:N	11:I5:66:LEU:HG	2.03	0.73
3:A5:1093:THR:OG1	11:I5:37:GLU:HG3	1.88	0.73
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CA	2.16	0.73
3:A5:1406:GLY:C	28:Z2:921:THR:CB	2.62	0.73
8:F1:1392:LEU:HD21	17:O2:266:GLN:NE2	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:617:ARG:NH1	11:I1:658:ARG:O	2.22	0.73
11:I1:917:TYR:CE2	15:M1:591:ASP:N	2.55	0.73
11:I1:946:THR:O	16:N1:407:ALA:HB2	1.88	0.73
11:I1:950:LEU:CA	16:N1:403:VAL:CG1	2.67	0.73
11:I2:946:THR:C	17:O3:260:LEU:CD2	2.60	0.73
11:I2:960:SER:O	20:R3:165:SER:HB2	1.87	0.73
11:I4:1270:LYS:HD2	26:X3:530:ARG:N	2.03	0.73
23:U2:250:LEU:HD13	24:V2:317:GLY:HA3	1.70	0.73
23:U4:250:LEU:HD13	24:V4:317:GLY:HA3	1.70	0.73
26:X2:241:GLU:HG2	26:X2:328:LEU:HD13	1.71	0.73
1:A1:868:GLN:CA	6:D3:280:GLN:HB3	2.14	0.73
2:A4:865:ALA:HB1	6:D3:567:LEU:HD21	0.77	0.73
2:A4:870:HIS:ND1	6:D3:566:PHE:HA	2.04	0.73
2:A4:1148:ARG:NH2	3:A6:174:PRO:CD	2.51	0.73
3:A5:1408:GLU:N	28:Z2:917:ASP:HA	2.04	0.73
3:A6:146:LYS:HD2	5:C4:746:PRO:HB3	1.71	0.73
3:A6:233:THR:C	5:C4:737:LYS:O	2.14	0.73
3:A6:1360:GLY:C	28:Z4:872:TYR:CB	2.62	0.73
6:D7:537:ARG:HB3	11:I3:43:LYS:NZ	2.03	0.73
8:F1:1264:ARG:CG	17:O2:263:GLN:O	2.33	0.73
8:F2:995:THR:OG1	8:F2:1018:ARG:NH2	2.22	0.73
9:G1:250:THR:O	15:M2:605:THR:OG1	2.07	0.73
11:I1:503:ARG:NH2	11:I1:504:ALA:O	2.22	0.73
11:I1:846:ILE:HB	17:O1:247:TRP:CH2	2.23	0.73
11:I1:1021:ILE:CA	16:N1:406:HIS:O	2.35	0.73
11:I1:1034:ASP:CG	20:R1:177:LEU:HD23	2.00	0.73
11:I1:1052:LEU:CA	17:O1:287:LEU:HD13	2.15	0.73
11:I1:1070:LEU:C	16:N1:429:GLU:HG2	2.14	0.73
11:I2:503:ARG:NH2	11:I2:504:ALA:O	2.22	0.73
11:I2:884:LEU:HD13	16:N3:400:LEU:CG	2.19	0.73
11:I2:953:LEU:C	15:M3:603:SER:HB3	2.10	0.73
11:I2:1067:PHE:CG	16:N3:429:GLU:C	2.66	0.73
21:S1:100:GLU:O	21:S1:103:ASP:N	2.21	0.73
21:S2:1037:CYS:HB3	21:S2:1039:GLU:HG2	1.70	0.73
21:S4:1037:CYS:HB3	21:S4:1039:GLU:HG2	1.70	0.73
23:U3:250:LEU:HD13	24:V3:317:GLY:HA3	1.70	0.73
26:X1:241:GLU:HG2	26:X1:328:LEU:HD13	1.71	0.73
28:Z2:443:LEU:HD21	30:b2:250:GLY:HA3	1.68	0.73
28:Z2:524:VAL:HA	30:b2:236:THR:HG23	1.70	0.73
28:Z4:540:LEU:HA	30:b4:165:THR:HG23	1.71	0.73
2:A2:243:ARG:O	2:A2:287:LYS:NZ	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:867:GLU:HG2	6:D1:593:ARG:HH21	1.49	0.72
2:A2:874:VAL:CG1	6:D1:611:LYS:HB3	2.13	0.72
2:A2:965:LYS:CA	6:D1:199:GLY:HA2	2.00	0.72
2:A4:1139:ILE:CD1	3:A6:137:HIS:HB2	2.19	0.72
3:A5:1392:ARG:HH11	28:Z2:867:LYS:H	1.22	0.72
11:I1:183:LYS:O	11:I1:188:ARG:NH2	2.22	0.72
11:I1:836:VAL:CG1	17:O1:244:GLU:CB	2.55	0.72
11:I1:976:ARG:NH1	15:M1:622:VAL:HA	2.03	0.72
11:I1:1043:LEU:CB	16:N1:430:ARG:HB2	2.19	0.72
11:I1:1103:LEU:CD2	20:R1:175:GLN:HG2	2.19	0.72
11:I2:899:LEU:CD2	17:O3:235:ASN:HB2	2.17	0.72
11:I2:994:ALA:O	17:O3:267:ALA:CB	2.31	0.72
11:I5:183:LYS:O	11:I5:188:ARG:NH2	2.22	0.72
28:Z1:400:LYS:O	30:b1:252:ALA:CA	2.37	0.72
28:Z1:551:THR:CG2	30:b1:233:TRP:HZ3	1.52	0.72
28:Z3:400:LYS:O	30:b3:252:ALA:CA	2.37	0.72
2:A2:868:GLN:HB3	6:D1:570:VAL:CG1	2.19	0.72
2:A2:1151:THR:CA	5:C2:733:LEU:CA	2.60	0.72
2:A4:1141:GLU:C	3:A6:565:THR:O	2.30	0.72
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD13	1.69	0.72
3:A5:1369:ILE:HG12	28:Z2:832:PHE:H	1.52	0.72
3:A5:1392:ARG:HH11	28:Z2:866:GLU:C	1.97	0.72
3:A6:233:THR:HA	5:C4:737:LYS:CB	1.89	0.72
11:I1:1037:THR:O	15:M1:620:VAL:CA	2.37	0.72
11:I2:183:LYS:O	11:I2:188:ARG:NH2	2.22	0.72
11:I2:916:ALA:O	15:M3:589:GLY:HA3	1.80	0.72
11:I2:944:GLU:C	17:O3:256:TYR:CA	2.55	0.72
11:I2:992:ILE:HG22	15:M3:607:SER:O	1.88	0.72
11:I5:503:ARG:NH2	11:I5:504:ALA:O	2.22	0.72
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:CA	2.71	0.72
18:P1:277:PRO:CB	18:P4:323:GLN:N	2.51	0.72
28:Z3:556:ASN:N	30:b3:212:PHE:HB2	2.04	0.72
1:A1:874:VAL:HG21	6:D3:272:VAL:CB	2.14	0.72
2:A2:869:ALA:HA	6:D1:583:ILE:HG21	1.69	0.72
2:A2:982:THR:HG21	6:D1:497:PHE:H	1.45	0.72
3:A5:165:PHE:HD1	5:C2:743:LEU:HD21	1.49	0.72
3:A5:1416:ARG:O	28:Z2:963:LYS:HA	1.89	0.72
3:A6:1316:VAL:HG13	28:Z4:870:ILE:O	1.90	0.72
8:F1:1266:MET:HE2	17:O2:262:ASP:OD1	1.88	0.72
11:I1:1024:PHE:O	20:R1:172:ASP:OD2	2.06	0.72
11:I2:890:TYR:CB	17:O3:242:ARG:CG	2.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1043:LEU:HD13	16:N3:433:GLU:HB3	1.67	0.72
11:I4:1279:THR:HG1	26:X3:523:LEU:HB3	1.52	0.72
28:Z1:410:ASN:N	30:b1:251:ILE:HD12	2.04	0.72
28:Z1:524:VAL:HA	30:b1:236:THR:HG23	1.70	0.72
28:Z2:400:LYS:O	30:b2:252:ALA:CA	2.37	0.72
28:Z3:540:LEU:HA	30:b3:165:THR:HG23	1.71	0.72
28:Z3:555:LYS:HA	30:b3:234:LEU:H	1.54	0.72
28:Z4:530:LYS:NZ	30:b4:164:CYS:HA	2.04	0.72
28:Z4:555:LYS:HA	30:b4:234:LEU:H	1.54	0.72
2:A2:1094:ILE:CD1	6:D2:708:ASP:OD1	2.37	0.72
2:A4:983:LEU:CG	6:D3:528:PHE:HE1	1.71	0.72
2:A4:1135:ARG:N	3:A6:146:LYS:N	2.38	0.72
3:A6:1401:VAL:HG13	28:Z4:919:PHE:N	2.03	0.72
3:A6:1410:ALA:N	26:X4:742:ALA:O	2.22	0.72
11:I1:1038:ILE:O	15:M1:620:VAL:HG22	1.90	0.72
11:I1:1736:LEU:HD12	11:I2:1607:GLN:NE2	2.03	0.72
11:I2:944:GLU:HB3	17:O3:256:TYR:CD1	2.23	0.72
11:I2:948:ALA:HB3	17:O3:256:TYR:C	2.13	0.72
11:I3:183:LYS:O	11:I3:188:ARG:NH2	2.22	0.72
11:I3:503:ARG:NH2	11:I3:504:ALA:O	2.22	0.72
11:I3:1182:GLN:HG3	12:J3:245:GLU:OE2	1.89	0.72
11:I4:1269:ARG:C	26:X3:528:GLU:CG	2.62	0.72
17:O4:110:LEU:N	18:P4:318:PRO:CB	2.52	0.72
18:P1:277:PRO:CA	18:P4:322:LYS:HB3	1.71	0.72
21:S3:100:GLU:O	21:S3:103:ASP:N	2.21	0.72
24:V2:483:GLU:CD	24:V2:514:ARG:HH22	1.96	0.72
28:Z1:549:LYS:HB3	30:b1:182:PRO:HG3	1.69	0.72
1:A1:1399:ARG:HH22	2:A2:888:GLN:HB2	1.51	0.72
2:A4:243:ARG:O	2:A4:287:LYS:NZ	2.22	0.72
2:A4:864:ARG:HD3	6:D3:610:ASN:H	1.52	0.72
2:A4:1118:GLN:NE2	3:A6:132:ASP:OD2	2.21	0.72
3:A6:1312:ARG:NH2	28:Z4:829:SER:CA	2.50	0.72
3:A6:1390:LEU:CB	28:Z4:867:LYS:HA	2.18	0.72
8:F1:995:THR:OG1	8:F1:1018:ARG:NH2	2.22	0.72
8:F1:1094:GLY:HA3	17:O2:237:PRO:C	2.13	0.72
8:F2:1090:PRO:C	17:O4:245:GLU:HA	2.08	0.72
9:G1:256:GLN:N	17:O2:257:ALA:HB2	2.04	0.72
11:I1:797:LEU:CD2	17:O1:245:GLU:CG	2.61	0.72
11:I2:950:LEU:HD22	16:N3:410:MET:HE3	1.69	0.72
11:I2:957:SER:CB	20:R3:168:LEU:CA	2.11	0.72
11:I2:962:ILE:HG12	15:M3:600:ASN:OD1	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:997:SER:CB	17:O3:270:THR:CG2	2.68	0.72
11:I2:1039:ALA:HB3	20:R3:170:LEU:HD23	1.71	0.72
11:I4:1279:THR:HG23	26:X3:523:LEU:CB	1.82	0.72
11:I5:617:ARG:NH1	11:I5:658:ARG:O	2.22	0.72
17:O2:110:LEU:CG	18:P2:321:ILE:C	2.61	0.72
17:O2:111:TYR:H	18:P2:325:ILE:CG1	1.95	0.72
17:O3:148:ARG:CD	18:P3:325:ILE:HG23	2.19	0.72
24:V3:483:GLU:CD	24:V3:514:ARG:HH22	1.96	0.72
26:X3:241:GLU:HG2	26:X3:328:LEU:HD13	1.71	0.72
28:Z1:443:LEU:CD2	30:b1:250:GLY:CA	2.68	0.72
28:Z1:539:GLU:HB2	30:b1:164:CYS:C	2.14	0.72
28:Z1:556:ASN:N	30:b1:212:PHE:HB2	2.04	0.72
28:Z2:531:LYS:HD3	30:b2:182:PRO:C	2.11	0.72
28:Z4:443:LEU:CD2	30:b4:250:GLY:CA	2.68	0.72
28:Z4:556:ASN:N	30:b4:212:PHE:HB2	2.04	0.72
2:A2:864:ARG:NH2	6:D1:610:ASN:HD21	1.85	0.72
1:A3:1091:VAL:HG22	6:D3:808:ASN:HB2	1.70	0.72
1:A3:1233:GLN:CD	2:A4:726:ALA:CB	2.58	0.72
2:A4:869:ALA:HB2	6:D3:583:ILE:HG21	1.72	0.72
2:A4:1138:GLU:HA	3:A6:130:ILE:HD13	1.71	0.72
3:A6:165:PHE:CG	5:C4:743:LEU:HD13	2.24	0.72
3:A6:209:VAL:HG21	5:C4:742:ASP:CG	2.12	0.72
11:I1:920:PHE:HB2	17:O1:243:LEU:HD23	1.72	0.72
11:I1:981:VAL:HG11	20:R1:151:LYS:HB3	1.66	0.72
11:I1:1046:HIS:HB2	17:O1:280:GLU:O	1.90	0.72
11:I1:1061:ASP:HA	17:O1:279:ILE:HD11	1.70	0.72
11:I1:1108:PRO:HD3	16:N1:443:GLU:HB3	1.72	0.72
11:I1:1677:LYS:HE2	11:I2:1543:LEU:CD1	2.19	0.72
11:I3:1276:GLN:CD	26:X1:535:ALA:O	2.32	0.72
21:S2:176:MET:HE2	21:S2:212:LEU:CD1	2.11	0.72
28:Z1:447:GLU:HG3	30:b1:248:SER:HB2	1.72	0.72
28:Z2:555:LYS:HA	30:b2:234:LEU:H	1.54	0.72
28:Z3:410:ASN:N	30:b3:251:ILE:HD12	2.04	0.72
28:Z4:401:THR:C	30:b4:254:SER:OG	2.25	0.72
1:A1:873:PRO:CB	6:D3:218:LYS:HZ2	1.99	0.72
2:A2:1094:ILE:HD13	6:D2:708:ASP:OD1	1.90	0.72
2:A2:1135:ARG:HD3	3:A5:157:TRP:CA	2.19	0.72
2:A2:1139:ILE:CG2	3:A5:131:PRO:HB2	2.16	0.72
2:A2:1155:ASN:HA	3:A5:175:GLU:CD	2.14	0.72
3:A5:207:LEU:CD1	5:C2:742:ASP:HB3	2.20	0.72
3:A5:1029:ILE:HG21	11:I5:71:GLU:H	1.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1092:ASN:OD1	11:I5:33:THR:HG22	1.90	0.72
3:A5:1359:LEU:CB	28:Z2:878:HIS:H	1.85	0.72
3:A6:1396:GLY:HA3	28:Z4:905:LEU:CB	2.20	0.72
8:F1:1202:TYR:CB	17:O2:252:VAL:HG22	2.19	0.72
11:I1:846:ILE:HG21	17:O1:247:TRP:HZ2	1.49	0.72
11:I2:834:SER:HB3	17:O3:237:PRO:CB	2.18	0.72
11:I2:990:GLU:N	15:M3:611:LYS:HB3	2.04	0.72
11:I2:1045:PHE:CZ	16:N3:431:VAL:O	2.42	0.72
11:I3:1273:GLU:CA	26:X1:523:LEU:CA	2.57	0.72
11:I3:1278:ALA:HB3	26:X1:520:GLU:N	1.85	0.72
21:S1:176:MET:HE2	21:S1:212:LEU:CD1	2.11	0.72
21:S2:1016:LYS:CE	21:S2:1039:GLU:HG3	2.19	0.72
27:Y3:329:ARG:HG2	27:Y3:344:VAL:HG22	1.70	0.72
28:Z1:555:LYS:HA	30:b1:234:LEU:H	1.54	0.72
28:Z2:530:LYS:NZ	30:b2:164:CYS:HA	2.04	0.72
2:A2:870:HIS:ND1	6:D1:566:PHE:CG	2.49	0.72
2:A2:980:ARG:HH21	6:D1:503:LEU:HB2	0.55	0.72
2:A2:1135:ARG:CD	3:A5:158:ALA:N	2.41	0.72
2:A4:974:PRO:C	6:D3:499:LEU:HD12	2.14	0.72
2:A4:1156:ASP:HB3	3:A6:176:LEU:CD2	2.12	0.72
3:A5:177:ILE:O	5:C2:743:LEU:CB	2.38	0.72
3:A6:164:LEU:CG	5:C4:741:THR:O	2.38	0.72
8:F1:1392:LEU:HD21	17:O2:266:GLN:HE22	1.54	0.72
11:I1:921:GLU:OE1	15:M1:592:LEU:HD11	1.90	0.72
11:I1:976:ARG:HB3	20:R1:149:ARG:CA	2.19	0.72
11:I1:1103:LEU:CD1	20:R1:175:GLN:CD	2.59	0.72
11:I1:1738:TYR:O	11:I2:1603:ARG:HB3	1.89	0.72
11:I2:875:ARG:O	17:O3:251:ILE:HB	1.89	0.72
11:I2:877:ILE:N	17:O3:254:ARG:HB3	2.04	0.72
11:I3:1267:LEU:CG	26:X1:497:ARG:HH22	1.95	0.72
11:I4:183:LYS:O	11:I4:188:ARG:NH2	2.22	0.72
11:I4:1267:LEU:C	26:X3:528:GLU:CG	2.56	0.72
11:I4:1274:HIS:HA	26:X3:526:CYS:HG	1.54	0.72
21:S4:1016:LYS:CE	21:S4:1039:GLU:HG3	2.19	0.72
22:T1:753:TYR:OH	22:T1:856:MET:HE1	1.90	0.72
28:Z1:530:LYS:NZ	30:b1:164:CYS:HA	2.04	0.72
28:Z2:443:LEU:CD2	30:b2:250:GLY:CA	2.68	0.72
28:Z2:447:GLU:HG3	30:b2:248:SER:HB2	1.72	0.72
28:Z2:540:LEU:HA	30:b2:165:THR:HG23	1.71	0.72
28:Z2:556:ASN:N	30:b2:212:PHE:HB2	2.04	0.72
28:Z3:447:GLU:HG3	30:b3:248:SER:HB2	1.72	0.72

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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	0.72
2:A2:870:HIS:ND1	6:D1:566:PHE:CD1	2.57	0.72
2:A2:980:ARG:CD	6:D1:526:LEU:H	2.03	0.72
2:A2:1142:PHE:CG	3:A5:129:ASN:N	2.56	0.72
2:A4:781:ARG:HH22	6:D3:633:LYS:CD	1.97	0.72
2:A4:975:GLU:HA	6:D3:499:LEU:CB	2.02	0.72
2:A4:1120:ASP:O	3:A6:136:GLU:CD	2.33	0.72
2:A4:1154:PHE:C	3:A6:176:LEU:H	1.98	0.72
3:A5:1416:ARG:HD3	28:Z2:953:LEU:O	1.90	0.72
3:A6:1303:GLN:CG	28:Z4:838:GLN:HA	2.17	0.72
6:D7:176:SER:HB3	11:I3:95:LYS:NZ	2.05	0.72
8:F1:1205:TRP:CE2	17:O2:254:ARG:HD2	2.25	0.72
11:I1:981:VAL:HA	20:R1:147:LEU:HD21	1.71	0.72
11:I1:1002:ALA:HB3	16:N1:414:ALA:HA	1.71	0.72
11:I1:1018:LYS:H	16:N1:413:VAL:H	1.38	0.72
11:I1:1052:LEU:CD2	16:N1:434:LEU:CD1	2.68	0.72
11:I1:1182:GLN:HG3	12:J1:245:GLU:OE2	1.89	0.72
11:I1:1669:ARG:HH22	11:I2:1610:VAL:HG11	1.55	0.72
11:I2:946:THR:HG22	17:O3:261:LYS:CA	1.91	0.72
11:I2:950:LEU:CD2	15:M3:606:LEU:HG	2.20	0.72
11:I2:1049:LEU:CG	17:O3:291:ASP:CG	2.62	0.72
11:I2:1109:LEU:HD13	17:O3:290:TYR:CZ	2.20	0.72
11:I3:816:ASP:CA	26:X1:498:SER:HB3	2.13	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:S4:683:LEU:N	21:S4:684:THR:CA	2.53	0.72
22:T2:753:TYR:OH	22:T2:856:MET:HE1	1.90	0.72
24:V4:483:GLU:CD	24:V4:514:ARG:HH22	1.96	0.72
28:Z1:524:VAL:HG12	30:b1:236:THR:CG2	2.12	0.72
28:Z4:447:GLU:HG3	30:b4:248:SER:HB2	1.72	0.72
2:A2:868:GLN:CB	6:D1:598:ILE:HD13	2.19	0.72
2:A2:874:VAL:HG23	6:D1:571:SER:CB	2.19	0.72
2:A2:1305:ALA:CB	2:A2:1306:PRO:CD	2.68	0.72
2:A4:860:GLU:O	6:D3:607:PRO:HD3	1.88	0.72
2:A4:878:LEU:CA	6:D3:567:LEU:CD1	2.68	0.72
2:A4:975:GLU:CB	6:D3:499:LEU:HB3	2.09	0.72
2:A4:1167:CYS:CB	4:B6:342:ARG:CG	2.67	0.72
3:A5:1315:VAL:CB	28:Z2:833:ASP:O	2.36	0.72
3:A5:1406:GLY:CA	28:Z2:917:ASP:O	2.37	0.72
11:I1:846:ILE:HB	15:M1:594:LYS:HD2	1.71	0.72
11:I1:925:LEU:HD12	15:M1:593:ALA:HB1	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:925:LEU:HD12	15:M3:597:LYS:HE3	1.72	0.72
11:I2:1186:PRO:CD	17:O4:225:GLN:NE2	2.51	0.72
11:I3:1270:LYS:CG	26:X1:527:VAL:O	2.30	0.72
17:O3:151:LEU:CD2	18:P3:325:ILE:HG13	0.69	0.72
18:P2:319:VAL:HG22	18:P3:278:ASN:ND2	2.04	0.72
21:S1:184:ILE:HD11	21:S1:201:VAL:HG23	1.72	0.72
2:A2:874:VAL:CG1	6:D1:611:LYS:CG	2.68	0.71
2:A2:986:THR:HG22	6:D1:504:LYS:CE	2.20	0.71
2:A4:858:ALA:C	6:D3:606:LYS:CE	2.63	0.71
2:A4:870:HIS:CE1	6:D3:566:PHE:CD1	2.67	0.71
2:A4:1139:ILE:HD13	3:A6:134:VAL:HA	1.72	0.71
3:A5:1056:PHE:HD2	11:I5:37:GLU:HG3	1.51	0.71
3:A6:189:VAL:HG22	5:C4:745:SER:CB	1.94	0.71
3:A6:1160:GLN:HE21	5:C6:740:ARG:HD2	1.52	0.71
3:A6:1405:LEU:HD22	28:Z4:917:ASP:O	1.90	0.71
11:I1:948:ALA:CB	17:O1:256:TYR:HB3	2.20	0.71
11:I1:951:LYS:CB	17:O1:253:LEU:HD11	2.20	0.71
11:I2:899:LEU:HD23	17:O3:235:ASN:ND2	2.03	0.71
11:I2:956:ILE:C	20:R3:166:LEU:HB2	2.15	0.71
11:I2:962:ILE:HB	15:M3:596:ILE:HG21	1.71	0.71
11:I2:966:TRP:H	20:R3:154:ALA:HB2	1.53	0.71
11:I2:1029:LEU:HD13	16:N3:433:GLU:HG3	1.72	0.71
11:I2:1543:LEU:O	12:J1:300:ILE:CG2	2.38	0.71
11:I3:1277:LEU:HD22	26:X1:519:ILE:N	2.05	0.71
11:I3:1426:SER:OG	12:J3:263:MET:SD	2.45	0.71
23:U1:250:LEU:HD13	24:V1:317:GLY:HA3	1.70	0.71
28:Z1:522:ASN:ND2	30:b1:241:PRO:CA	2.53	0.71
28:Z2:539:GLU:HB2	30:b2:164:CYS:C	2.14	0.71
28:Z3:556:ASN:HD21	30:b3:166:LEU:CD2	2.02	0.71
2:A2:1135:ARG:NH1	3:A5:156:ALA:CB	2.53	0.71
1:A3:1332:ARG:NE	6:D3:636:ASP:CG	2.49	0.71
2:A4:978:ASP:O	6:D3:475:ALA:CB	2.38	0.71
3:A5:155:TYR:CD2	5:C2:740:ARG:HB3	2.16	0.71
3:A5:1395:LYS:HE3	28:Z2:872:TYR:N	2.04	0.71
3:A6:157:TRP:HZ2	5:C4:747:PRO:HA	1.53	0.71
3:A6:1367:THR:H	28:Z4:868:GLN:CB	2.00	0.71
11:I1:833:PHE:C	17:O1:241:SER:HB2	2.14	0.71
11:I1:955:LYS:HZ2	17:O1:249:ARG:CZ	2.03	0.71
11:I1:966:TRP:CH2	20:R1:167:GLN:HG2	2.24	0.71
11:I1:1104:LEU:CD2	20:R1:174:ARG:CD	2.17	0.71
11:I2:998:ALA:HB2	17:O3:267:ALA:CB	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1051:LYS:HE3	17:O3:288:GLU:HB2	1.72	0.71
11:I4:617:ARG:NH1	11:I4:658:ARG:O	2.22	0.71
11:I4:1274:HIS:CG	26:X3:531:LEU:CD1	2.52	0.71
11:I4:1277:LEU:HD11	26:X3:511:TYR:CZ	2.25	0.71
21:S3:184:ILE:HD11	21:S3:201:VAL:HG23	1.72	0.71
27:Y2:329:ARG:HG2	27:Y2:344:VAL:HG22	1.70	0.71
28:Z2:522:ASN:ND2	30:b2:241:PRO:CA	2.53	0.71
28:Z3:443:LEU:CD2	30:b3:250:GLY:CA	2.68	0.71
28:Z4:410:ASN:CB	30:b4:251:ILE:CB	2.69	0.71
30:b3:193:ARG:NH1	30:b3:199:GLN:OE1	2.21	0.71
1:A1:874:VAL:HG11	6:D3:272:VAL:CA	2.20	0.71
1:A1:1332:ARG:NH2	6:D1:682:ASN:N	2.39	0.71
2:A2:823:VAL:HG22	2:A2:856:PHE:CE1	2.24	0.71
2:A2:989:MSE:HE3	6:D1:240:ASP:HA	0.72	0.71
2:A2:989:MSE:HE1	6:D1:240:ASP:CB	2.20	0.71
2:A2:1114:ILE:CD1	5:C2:731:LYS:HG3	2.20	0.71
2:A2:1131:ILE:HG13	3:A5:137:HIS:CB	2.20	0.71
2:A4:868:GLN:HE21	6:D3:608:ILE:HG13	1.52	0.71
2:A4:1114:ILE:CD1	5:C4:731:LYS:HG3	2.19	0.71
3:A5:1391:ARG:CA	28:Z2:871:HIS:CB	2.53	0.71
3:A6:1407:GLY:CA	26:X4:743:PHE:HA	2.20	0.71
6:D5:622:PHE:HB2	6:D5:645:LEU:HD21	1.72	0.71
11:I1:874:LEU:HD23	17:O1:252:VAL:CB	2.21	0.71
11:I1:1021:ILE:CG1	16:N1:410:MET:HE3	2.16	0.71
11:I1:1061:ASP:HB3	17:O1:277:GLU:CD	2.07	0.71
11:I1:1066:LEU:H	16:N1:430:ARG:NE	1.87	0.71
11:I2:914:ASN:O	15:M3:585:LEU:C	2.29	0.71
11:I2:955:LYS:HZ2	17:O3:249:ARG:HH22	1.21	0.71
11:I2:988:GLU:N	15:M3:613:ASP:H	1.88	0.71
11:I3:1277:LEU:HG	26:X1:522:MET:CB	2.17	0.71
17:O3:158:GLU:HG2	18:P3:315:GLU:CA	2.19	0.71
22:T4:753:TYR:OH	22:T4:856:MET:HE1	1.90	0.71
23:U4:62:VAL:HG12	23:U4:66:LYS:HE3	1.73	0.71
24:V4:170:GLY:HA3	25:W4:12:ILE:HD12	1.73	0.71
28:Z4:539:GLU:HB2	30:b4:164:CYS:C	2.14	0.71
30:b1:193:ARG:NH1	30:b1:199:GLN:OE1	2.21	0.71
2:A2:1151:THR:CA	5:C2:733:LEU:CD1	2.47	0.71
3:A5:1050:TYR:OH	11:I5:70:GLU:HB3	1.90	0.71
3:A6:1388:ALA:HA	28:Z4:865:LYS:CA	2.21	0.71
3:A6:1390:LEU:HB3	28:Z4:866:GLU:O	1.89	0.71
9:G1:258:LYS:HB3	17:O2:253:LEU:HD23	1.67	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:950:LEU:HB3	16:N1:406:HIS:C	2.15	0.71
11:I1:985:ARG:NH1	20:R1:151:LYS:HE3	2.06	0.71
11:I2:1182:GLN:HG3	12:J2:245:GLU:OE2	1.89	0.71
11:I3:1267:LEU:HD23	26:X1:497:ARG:HH21	1.49	0.71
17:O3:102:LYS:HD3	18:P3:322:LYS:NZ	2.05	0.71
27:Y1:329:ARG:HG2	27:Y1:344:VAL:HG22	1.70	0.71
28:Z1:401:THR:C	30:b1:254:SER:OG	2.25	0.71
28:Z1:540:LEU:HA	30:b1:165:THR:HG23	1.71	0.71
28:Z2:524:VAL:HA	30:b2:237:LEU:O	1.89	0.71
28:Z3:524:VAL:HG12	30:b3:236:THR:CG2	2.12	0.71
28:Z3:528:ILE:C	30:b3:184:SER:OG	1.99	0.71
28:Z4:447:GLU:OE1	30:b4:250:GLY:CA	2.38	0.71
2:A2:980:ARG:HG2	6:D1:473:GLU:HG3	1.51	0.71
2:A2:986:THR:HG21	6:D1:504:LYS:HD3	0.73	0.71
2:A4:172:PRO:HB2	6:D3:781:ARG:CG	2.21	0.71
2:A4:980:ARG:HA	6:D3:473:GLU:OE2	1.14	0.71
2:A4:982:THR:CB	6:D3:494:LEU:C	2.63	0.71
2:A4:985:ALA:HB3	6:D3:497:PHE:HA	1.71	0.71
3:A6:189:VAL:HG21	5:C4:742:ASP:HB3	1.71	0.71
3:A6:1362:ALA:HB3	28:Z4:873:LEU:CA	2.20	0.71
3:A6:1368:GLN:HE21	28:Z4:825:TYR:CA	1.98	0.71
11:I1:849:LEU:HD13	17:O1:247:TRP:CD2	2.25	0.71
11:I1:890:TYR:HA	17:O1:238:ALA:HB3	1.71	0.71
11:I1:945:LEU:HD21	17:O1:258:GLU:HB2	0.78	0.71
11:I1:1673:VAL:HG11	11:I2:1610:VAL:CG2	2.20	0.71
11:I2:841:PHE:CD2	15:M3:588:MET:HE2	2.25	0.71
11:I2:877:ILE:HG23	17:O3:250:LEU:O	1.90	0.71
11:I2:900:ARG:N	17:O3:232:LYS:CB	2.52	0.71
11:I2:946:THR:HG22	17:O3:261:LYS:HA	1.72	0.71
11:I2:1021:ILE:CD1	16:N3:410:MET:HE2	2.21	0.71
11:I2:1110:SER:HG	16:N3:438:LEU:HG	1.50	0.71
11:I5:1182:GLN:HG3	12:J5:245:GLU:OE2	1.89	0.71
21:S1:408:THR:HG22	21:S1:418:TYR:HB2	1.70	0.71
23:U2:62:VAL:HG12	23:U2:66:LYS:HE3	1.73	0.71
28:Z2:410:ASN:CB	30:b2:251:ILE:CB	2.68	0.71
28:Z3:530:LYS:NZ	30:b3:164:CYS:HA	2.04	0.71
28:Z4:400:LYS:O	30:b4:252:ALA:CA	2.37	0.71
28:Z4:556:ASN:HD21	30:b4:166:LEU:HD23	1.54	0.71
2:A2:876:ARG:CZ	6:D1:563:GLU:CA	2.38	0.71
2:A2:973:GLU:OE1	6:D1:192:TYR:CD1	2.44	0.71
2:A2:1126:VAL:HG12	3:A5:139:ASN:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:870:HIS:O	6:D3:569:CYS:HB3	1.91	0.71
2:A4:878:LEU:C	6:D3:567:LEU:CD1	2.62	0.71
2:A4:1136:LYS:O	3:A6:138:LEU:HB2	1.91	0.71
2:A4:1153:LEU:C	3:A6:175:GLU:HA	2.12	0.71
2:A4:1305:ALA:CB	2:A4:1306:PRO:CD	2.68	0.71
3:A5:164:LEU:HD13	5:C2:745:SER:N	2.06	0.71
3:A5:1392:ARG:CD	28:Z2:866:GLU:C	2.62	0.71
3:A6:1351:MSE:HB3	28:Z4:918:PHE:C	2.12	0.71
3:A6:1385:GLU:OE2	28:Z4:862:GLN:N	2.23	0.71
11:I1:898:VAL:HG11	17:O1:235:ASN:O	1.89	0.71
11:I1:976:ARG:N	20:R1:149:ARG:CB	2.52	0.71
11:I1:1034:ASP:CG	20:R1:177:LEU:CD2	2.49	0.71
11:I2:930:LEU:HD23	15:M3:597:LYS:O	1.89	0.71
11:I2:978:LYS:HE2	20:R3:153:GLN:N	2.05	0.71
11:I4:503:ARG:NH2	11:I4:504:ALA:O	2.22	0.71
21:S2:184:ILE:HD11	21:S2:201:VAL:HG23	1.72	0.71
1:A1:1223:GLU:HB2	2:A2:676:LEU:HD11	1.73	0.71
1:A1:1332:ARG:NE	6:D1:636:ASP:OD1	2.23	0.71
1:A1:1399:ARG:NH2	2:A2:888:GLN:CB	2.54	0.71
2:A2:780:GLU:CA	6:D1:678:GLY:N	2.51	0.71
2:A2:868:GLN:CA	6:D1:598:ILE:HD13	2.20	0.71
2:A2:989:MSE:HE1	6:D1:240:ASP:CG	2.14	0.71
2:A2:1140:GLU:OE1	3:A5:135:PHE:CG	2.43	0.71
2:A2:1149:THR:H	3:A5:172:PRO:HG2	1.54	0.71
2:A2:1153:LEU:C	3:A5:174:PRO:C	2.58	0.71
2:A4:861:GLN:HG2	6:D3:606:LYS:NZ	2.05	0.71
2:A4:1138:GLU:HA	3:A6:130:ILE:CD1	2.20	0.71
3:A5:229:SER:C	5:C2:739:MET:CE	2.56	0.71
3:A5:1023:ILE:HG23	11:I5:95:LYS:HG2	1.73	0.71
3:A6:1319:ILE:CG2	28:Z4:874:ASN:HA	2.19	0.71
11:I1:918:SER:OG	16:N1:386:MET:C	2.34	0.71
11:I1:931:VAL:HG22	15:M1:604:ASN:CG	2.15	0.71
11:I1:980:ILE:HG13	20:R1:147:LEU:HD13	1.73	0.71
11:I1:986:ASN:HB2	15:M1:612:PRO:HD2	1.73	0.71
11:I1:1038:ILE:CD1	20:R1:167:GLN:CD	2.62	0.71
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD11	1.73	0.71
11:I2:890:TYR:HA	17:O3:238:ALA:O	1.91	0.71
11:I2:921:GLU:HA	15:M3:592:LEU:O	1.87	0.71
11:I2:958:THR:OG1	16:N3:399:HIS:CD2	2.41	0.71
11:I2:994:ALA:CB	17:O3:268:GLY:O	2.38	0.71
11:I2:1029:LEU:CA	20:R3:173:LEU:HB3	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1104:LEU:HB3	16:N3:432:TYR:O	1.91	0.71
11:I4:1276:GLN:CA	26:X3:519:ILE:O	2.39	0.71
11:I4:1429:TYR:OH	12:J4:267:GLY:HA2	1.90	0.71
28:Z1:410:ASN:CB	30:b1:251:ILE:CB	2.69	0.71
28:Z1:447:GLU:OE1	30:b1:250:GLY:CA	2.38	0.71
28:Z1:534:ASP:CA	30:b1:164:CYS:HB3	2.21	0.71
28:Z2:561:GLN:OE1	30:b2:237:LEU:N	2.19	0.71
2:A2:780:GLU:HA	6:D1:674:TYR:HA	1.72	0.71
3:A6:1326:TRP:CB	28:Z4:911:GLU:O	2.34	0.71
3:A6:1364:GLN:C	28:Z4:849:ALA:HB2	2.16	0.71
3:A6:1366:LEU:HD13	28:Z4:866:GLU:C	2.00	0.71
3:A6:1394:VAL:CG1	28:Z4:873:LEU:CB	2.68	0.71
6:D3:622:PHE:HB2	6:D3:645:LEU:HD21	1.72	0.71
6:D6:622:PHE:HB2	6:D6:645:LEU:HD21	1.72	0.71
6:D7:622:PHE:HB2	6:D7:645:LEU:HD21	1.72	0.71
11:I1:1044:GLY:H	15:M1:616:LEU:HD11	1.55	0.71
11:I2:921:GLU:C	15:M3:593:ALA:CA	2.56	0.71
11:I2:1021:ILE:CG1	16:N3:410:MET:HG3	2.20	0.71
11:I2:1429:TYR:OH	12:J2:267:GLY:HA2	1.90	0.71
11:I5:1277:LEU:HD23	26:X2:517:ASP:HB2	1.71	0.71
17:O4:107:THR:HA	18:P4:318:PRO:CD	2.20	0.71
28:Z1:524:VAL:HA	30:b1:237:LEU:O	1.89	0.71
28:Z1:556:ASN:HD21	30:b1:166:LEU:HD23	1.54	0.71
28:Z3:447:GLU:OE1	30:b3:250:GLY:CA	2.38	0.71
28:Z3:522:ASN:ND2	30:b3:241:PRO:CA	2.53	0.71
28:Z4:524:VAL:HA	30:b4:237:LEU:O	1.89	0.71
28:Z4:534:ASP:CA	30:b4:164:CYS:HB3	2.21	0.71
28:Z4:556:ASN:HD21	30:b4:166:LEU:CD2	2.02	0.71
2:A2:238:ARG:CZ	4:B2:349:MET:SD	2.79	0.71
2:A2:1054:SER:O	6:D2:762:ARG:HD3	1.89	0.71
2:A4:975:GLU:O	6:D3:496:LEU:C	2.33	0.71
2:A4:1122:LEU:HD12	3:A6:136:GLU:N	2.02	0.71
3:A5:207:LEU:HD11	5:C2:742:ASP:CB	2.08	0.71
3:A6:1331:GLU:OE1	28:Z4:952:ASN:C	2.34	0.71
11:I1:1118:LEU:CD1	16:N1:432:TYR:CE2	2.74	0.71
11:I1:1429:TYR:OH	12:J1:267:GLY:HA2	1.90	0.71
11:I1:1602:PHE:HD1	11:I2:1666:THR:CG2	2.03	0.71
11:I2:836:VAL:HG12	17:O3:244:GLU:HB2	1.60	0.71
11:I2:963:LEU:HD23	20:R3:168:LEU:HD12	1.70	0.71
11:I2:1038:ILE:HD13	15:M3:617:THR:O	1.91	0.71
11:I2:1110:SER:HA	16:N3:438:LEU:HD12	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1182:GLN:HE22	12:J3:245:GLU:HB3	1.56	0.71
11:I4:1182:GLN:HG3	12:J4:245:GLU:OE2	1.89	0.71
11:I4:1275:SER:CB	26:X3:525:ILE:CB	2.69	0.71
11:I5:1182:GLN:HE22	12:J5:245:GLU:HB3	1.56	0.71
11:I5:1236:TYR:CE1	29:a2:24[B]:GLY:C	2.68	0.71
21:S2:683:LEU:N	21:S2:684:THR:CA	2.53	0.71
21:S4:100:GLU:O	21:S4:103:ASP:N	2.21	0.71
21:S4:184:ILE:HD11	21:S4:201:VAL:HG23	1.72	0.71
28:Z2:447:GLU:OE1	30:b2:250:GLY:CA	2.38	0.71
28:Z3:410:ASN:CB	30:b3:251:ILE:CB	2.69	0.71
2:A2:826:ASN:CB	6:D1:633:LYS:CB	2.65	0.71
2:A4:982:THR:CG2	6:D3:496:LEU:HB2	2.20	0.71
2:A4:988:ARG:HG2	6:D3:500:LYS:HG3	1.73	0.71
2:A4:1019:ARG:HH12	6:D3:238:ALA:C	1.98	0.71
2:A4:1167:CYS:CB	4:B6:342:ARG:HG2	2.20	0.71
3:A5:188:ALA:CA	5:C2:746:PRO:HG3	2.21	0.71
3:A6:1398:LYS:NZ	28:Z4:886:LEU:N	2.17	0.71
11:I1:978:LYS:CD	20:R1:152:LYS:CA	2.68	0.71
11:I1:1607:GLN:NE2	11:I2:1736:LEU:CD1	2.54	0.71
11:I2:917:TYR:O	15:M3:588:MET:HB3	1.91	0.71
11:I2:922:ASP:H	15:M3:592:LEU:CG	2.03	0.71
11:I2:937:TYR:O	17:O3:262:ASP:N	2.21	0.71
11:I2:951:LYS:CD	16:N3:400:LEU:O	2.37	0.71
27:Y4:329:ARG:HG2	27:Y4:344:VAL:HG22	1.70	0.71
28:Z1:404:VAL:HG11	28:Z1:438:GLU:HA	1.73	0.71
28:Z2:556:ASN:HD21	30:b2:166:LEU:CD2	2.01	0.71
28:Z3:561:GLN:CG	30:b3:236:THR:CA	2.69	0.71
28:Z4:402:GLY:CA	30:b4:273:LYS:CB	2.66	0.71
28:Z4:555:LYS:C	30:b4:212:PHE:HB2	2.15	0.71
30:b4:154:GLU:HG2	30:b4:172:THR:HG22	1.73	0.71
2:A2:965:LYS:HA	6:D1:199:GLY:CA	2.20	0.70
2:A2:1153:LEU:O	3:A5:174:PRO:O	2.08	0.70
2:A2:1155:ASN:O	3:A5:175:GLU:O	2.08	0.70
2:A4:867:GLU:CA	6:D3:605:THR:CG2	2.69	0.70
3:A6:156:ALA:C	5:C4:741:THR:CG2	2.62	0.70
3:A6:1394:VAL:CB	28:Z4:869:HIS:C	2.65	0.70
3:A6:1395:LYS:HD3	28:Z4:889:LEU:O	1.89	0.70
8:F2:1137:GLN:HB3	17:O4:251:ILE:HD13	1.63	0.70
11:I1:1669:ARG:HB3	11:I2:1664:PHE:HZ	0.93	0.70
11:I2:834:SER:N	17:O3:241:SER:HB2	2.05	0.70
11:I2:887:GLN:HE22	16:N3:396:ILE:CD1	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1045:PHE:CE1	17:O3:279:ILE:HG21	2.25	0.70
11:I2:1048:GLU:HG2	17:O3:288:GLU:HG3	1.71	0.70
11:I3:1429:TYR:OH	12:J3:267:GLY:HA2	1.90	0.70
17:O2:107:THR:HG23	18:P2:321:ILE:HG21	1.72	0.70
21:S4:1032:ILE:HD12	21:S4:1051:ALA:HA	1.73	0.70
28:Z1:555:LYS:C	30:b1:212:PHE:HB2	2.15	0.70
28:Z2:438:GLU:OE1	30:b2:333:HIS:ND1	2.24	0.70
30:b3:154:GLU:HG2	30:b3:172:THR:HG22	1.73	0.70
1:A1:1052:THR:HA	6:D1:812:VAL:CG1	2.21	0.70
2:A2:868:GLN:H	6:D1:598:ILE:HD13	1.54	0.70
2:A2:875:LEU:CD2	6:D1:566:PHE:C	2.63	0.70
2:A2:970:PHE:CB	6:D1:192:TYR:CZ	2.59	0.70
2:A4:823:VAL:HG22	2:A4:856:PHE:CE1	2.24	0.70
3:A5:1361:ARG:O	28:Z2:842:LEU:CB	2.40	0.70
3:A5:1416:ARG:C	28:Z2:963:LYS:CA	2.63	0.70
3:A6:190:ALA:CB	5:C4:748:ASN:ND2	2.46	0.70
3:A6:1416:ARG:CG	28:Z4:966:CYS:CA	2.68	0.70
8:F1:982:PRO:HB2	11:I1:1388:GLU:CG	2.22	0.70
11:I1:927:HIS:HD2	15:M1:594:LYS:C	1.97	0.70
11:I1:987:GLY:HA2	15:M1:614:ASP:CB	2.19	0.70
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD11	1.73	0.70
11:I1:1101:LEU:HD22	16:N1:432:TYR:CE1	2.26	0.70
11:I2:965:ALA:CB	20:R3:154:ALA:HA	2.21	0.70
11:I2:1048:GLU:CG	17:O3:288:GLU:CG	2.63	0.70
11:I2:1182:GLN:HE22	12:J2:245:GLU:HB3	1.56	0.70
11:I4:1259:ARG:NH2	11:I4:1262:GLN:OE1	2.25	0.70
11:I4:1274:HIS:CE1	26:X3:529:TRP:HB3	2.24	0.70
23:U2:8:GLN:C	23:U2:10:GLU:H	1.99	0.70
1:A1:1224:PRO:HD2	2:A2:731:ILE:HB	1.73	0.70
2:A2:989:MSE:CG	6:D1:500:LYS:HE3	2.15	0.70
2:A4:872:ALA:CA	6:D3:565:MET:HE3	2.13	0.70
3:A6:150:PHE:CE2	5:C4:740:ARG:O	2.43	0.70
6:D1:178:LEU:HD21	6:D1:539:PHE:CG	2.26	0.70
6:D4:622:PHE:HB2	6:D4:645:LEU:HD21	1.72	0.70
9:G1:263:MET:HB3	17:O2:260:LEU:CB	2.20	0.70
11:I1:924:ILE:CB	15:M1:592:LEU:O	2.31	0.70
11:I1:947:LEU:HD12	17:O1:256:TYR:HE2	1.54	0.70
11:I1:1677:LYS:NZ	11:I2:1543:LEU:HD13	2.06	0.70
11:I2:922:ASP:H	15:M3:592:LEU:CB	2.03	0.70
11:I2:947:LEU:CD2	16:N3:411:GLN:CG	2.10	0.70
11:I2:997:SER:CB	17:O3:270:THR:HG22	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1059:PRO:CB	17:O3:273:ASP:C	2.44	0.70
11:I2:1113:LEU:HD22	17:O3:282:LYS:CE	2.19	0.70
21:S2:1032:ILE:HD12	21:S2:1051:ALA:HA	1.73	0.70
21:S3:683:LEU:N	21:S3:684:THR:CA	2.53	0.70
24:V3:170:GLY:HA3	25:W3:12:ILE:HD12	1.72	0.70
26:X4:241:GLU:HG2	26:X4:328:LEU:HD13	1.71	0.70
28:Z1:401:THR:CA	30:b1:253:SER:N	2.55	0.70
28:Z2:404:VAL:HG11	28:Z2:438:GLU:HA	1.73	0.70
28:Z2:522:ASN:ND2	30:b2:241:PRO:CB	2.55	0.70
28:Z3:522:ASN:ND2	30:b3:241:PRO:CB	2.55	0.70
28:Z3:561:GLN:OE1	30:b3:237:LEU:N	2.19	0.70
28:Z4:438:GLU:OE1	30:b4:333:HIS:ND1	2.24	0.70
2:A2:235:TYR:CE1	4:B2:347:LEU:CD1	2.75	0.70
2:A2:868:GLN:N	6:D1:598:ILE:HD13	2.07	0.70
2:A2:985:ALA:HB1	6:D1:500:LYS:N	2.06	0.70
1:A3:1221:ILE:HG21	2:A4:641:ALA:O	1.91	0.70
2:A4:973:GLU:HG2	6:D3:192:TYR:HE2	1.56	0.70
2:A4:982:THR:HG21	6:D3:494:LEU:C	2.16	0.70
2:A4:1155:ASN:N	3:A6:175:GLU:CG	2.46	0.70
3:A6:1410:ALA:O	26:X4:742:ALA:HA	1.91	0.70
11:I1:883:ALA:CB	17:O1:246:LEU:HB3	1.92	0.70
11:I1:955:LYS:HZ1	16:N1:397:GLU:HA	1.56	0.70
11:I1:956:ILE:HA	20:R1:166:LEU:CD2	2.12	0.70
11:I1:980:ILE:CG1	15:M1:621:ARG:CB	2.47	0.70
11:I1:1259:ARG:NH2	11:I1:1262:GLN:OE1	2.25	0.70
11:I2:925:LEU:HG	15:M3:593:ALA:CB	2.22	0.70
11:I2:994:ALA:HB3	17:O3:268:GLY:O	1.90	0.70
11:I2:1259:ARG:NH2	11:I2:1262:GLN:OE1	2.25	0.70
11:I3:1277:LEU:HD13	26:X1:511:TYR:HE2	1.48	0.70
17:O3:151:LEU:HD22	18:P3:325:ILE:CG2	2.21	0.70
21:S1:683:LEU:N	21:S1:684:THR:CA	2.53	0.70
28:Z1:402:GLY:N	30:b1:254:SER:OG	2.24	0.70
28:Z3:521:SER:C	30:b3:238:ASN:CB	2.62	0.70
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB3	1.68	0.70
2:A2:776:MET:HG2	6:D1:678:GLY:O	1.91	0.70
2:A2:970:PHE:CD1	6:D1:196:ILE:HD11	2.23	0.70
1:A3:1099:GLN:HA	11:I2:1414:CYS:O	1.91	0.70
1:A3:1224:PRO:CD	2:A4:734:LEU:HD22	2.22	0.70
2:A4:908:LEU:O	6:D3:555:ARG:HB3	1.90	0.70
2:A4:976:LEU:CD1	6:D3:501:LEU:HB3	2.21	0.70
2:A4:1139:ILE:HA	3:A6:130:ILE:HG21	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1367:THR:O	28:Z2:825:TYR:CA	2.39	0.70
3:A6:1388:ALA:C	28:Z4:866:GLU:N	2.48	0.70
3:A6:1413:SER:C	28:Z4:963:LYS:C	2.55	0.70
6:D7:178:LEU:HD21	6:D7:539:PHE:CG	2.27	0.70
8:F1:1205:TRP:NE1	17:O2:251:ILE:CG2	2.31	0.70
9:G1:256:GLN:HB2	16:N2:403:VAL:HG12	1.72	0.70
9:G1:257:THR:CA	17:O2:253:LEU:H	1.82	0.70
11:I1:947:LEU:C	16:N1:407:ALA:CB	2.65	0.70
11:I1:977:ASN:CG	15:M1:621:ARG:O	2.35	0.70
11:I1:1114:VAL:HG22	16:N1:432:TYR:C	2.10	0.70
11:I1:1182:GLN:HE22	12:J1:245:GLU:HB3	1.56	0.70
11:I2:923:GLY:CA	15:M3:591:ASP:C	2.61	0.70
11:I4:1182:GLN:HE22	12:J4:245:GLU:HB3	1.56	0.70
17:O3:158:GLU:HG3	18:P3:316:LEU:HB2	1.71	0.70
21:S1:866:TYR:O	21:S1:868:ASP:N	2.24	0.70
21:S3:1032:ILE:HD12	21:S3:1051:ALA:HA	1.74	0.70
22:T3:753:TYR:OH	22:T3:856:MET:HE1	1.90	0.70
23:U3:8:GLN:C	23:U3:10:GLU:H	1.99	0.70
28:Z1:561:GLN:CG	30:b1:236:THR:CA	2.69	0.70
28:Z2:410:ASN:N	30:b2:251:ILE:HD12	2.04	0.70
28:Z2:521:SER:C	30:b2:238:ASN:CB	2.62	0.70
28:Z3:402:GLY:N	30:b3:254:SER:OG	2.24	0.70
28:Z3:438:GLU:OE1	30:b3:333:HIS:ND1	2.24	0.70
28:Z4:402:GLY:N	30:b4:254:SER:OG	2.24	0.70
28:Z4:522:ASN:ND2	30:b4:241:PRO:HB3	2.07	0.70
28:Z4:531:LYS:HZ3	30:b4:166:LEU:HB2	1.53	0.70
28:Z4:540:LEU:CA	30:b4:165:THR:HG23	2.21	0.70
1:A1:1223:GLU:OE1	2:A2:761:GLN:CG	2.40	0.70
2:A2:869:ALA:O	6:D1:570:VAL:HA	1.81	0.70
2:A2:1149:THR:CB	3:A5:172:PRO:CG	2.70	0.70
2:A4:864:ARG:CB	6:D3:608:ILE:N	2.53	0.70
2:A4:973:GLU:HG2	6:D3:192:TYR:CE2	2.26	0.70
2:A4:1142:PHE:CZ	3:A6:567:VAL:CG2	2.60	0.70
2:A4:1156:ASP:HB2	3:A6:176:LEU:CD2	2.04	0.70
3:A5:1404:LEU:HD21	28:Z2:913:ILE:O	1.91	0.70
6:D2:622:PHE:HB2	6:D2:645:LEU:HD21	1.72	0.70
6:D4:178:LEU:HD21	6:D4:539:PHE:CG	2.27	0.70
8:F1:1261:TYR:CG	17:O2:259:ASP:OD2	2.43	0.70
11:I2:883:ALA:HB2	17:O3:243:LEU:O	1.91	0.70
11:I3:1266:ALA:O	26:X1:528:GLU:C	2.34	0.70
17:O4:109:PRO:CD	18:P4:318:PRO:HG2	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:866:TYR:O	21:S3:868:ASP:N	2.24	0.70
28:Z1:522:ASN:ND2	30:b1:241:PRO:CB	2.55	0.70
28:Z1:524:VAL:CG2	30:b1:236:THR:HG22	2.19	0.70
30:b4:193:ARG:NH1	30:b4:199:GLN:OE1	2.21	0.70
1:A1:870:HIS:HB3	6:D3:279:HIS:CA	2.20	0.70
2:A2:986:THR:CG2	6:D1:497:PHE:HE1	2.04	0.70
2:A2:986:THR:CB	6:D1:497:PHE:HE1	2.05	0.70
1:A3:1098:ARG:CD	11:I2:1414:CYS:CB	2.55	0.70
2:A4:868:GLN:CB	6:D3:570:VAL:HG21	2.21	0.70
2:A4:1054:SER:HB3	6:D4:762:ARG:NE	2.07	0.70
2:A4:1159:ASP:CB	4:B6:342:ARG:HB2	2.22	0.70
3:A5:1151:THR:HA	5:C5:733:LEU:HD13	1.73	0.70
6:D3:178:LEU:HD21	6:D3:539:PHE:CG	2.27	0.70
11:I1:956:ILE:CG1	15:M1:599:ILE:HD13	2.22	0.70
11:I1:1109:LEU:HB3	16:N1:441:PHE:CB	2.14	0.70
11:I1:1113:LEU:CA	16:N1:435:ALA:HB1	2.22	0.70
11:I2:921:GLU:OE1	15:M3:592:LEU:HD11	1.91	0.70
23:U1:8:GLN:C	23:U1:10:GLU:H	1.99	0.70
28:Z3:523:ASP:O	30:b3:208:ASN:OD1	1.81	0.70
30:b2:154:GLU:HG2	30:b2:172:THR:HG22	1.73	0.70
1:A1:1199:GLN:O	2:A2:730:THR:CA	2.23	0.70
2:A2:1129:PRO:O	3:A5:160:ILE:HG22	1.91	0.70
2:A2:1158:ALA:CA	3:A5:133:LYS:NZ	2.55	0.70
2:A4:1133:GLU:N	3:A6:145:THR:N	2.38	0.70
2:A4:1151:THR:CA	5:C4:733:LEU:CD1	2.47	0.70
3:A5:996:ASN:CG	11:I5:55:ASP:C	2.58	0.70
3:A5:1360:GLY:H	28:Z2:879:PHE:H	1.38	0.70
3:A6:1364:GLN:NE2	28:Z4:846:SER:CB	2.54	0.70
3:A6:1391:ARG:NH1	28:Z4:865:LYS:HA	2.07	0.70
8:F1:1138:TRP:HB2	17:O2:244:GLU:HG2	1.65	0.70
8:F1:1266:MET:HA	17:O2:265:ASN:ND2	2.07	0.70
11:I1:900:ARG:HG3	17:O1:232:LYS:HZ3	1.53	0.70
11:I1:958:THR:HB	16:N1:399:HIS:HA	1.73	0.70
11:I1:959:SER:CB	16:N1:395:GLU:CB	2.69	0.70
11:I1:981:VAL:CB	20:R1:147:LEU:HD21	2.15	0.70
11:I2:920:PHE:CZ	17:O3:247:TRP:CH2	2.70	0.70
11:I2:921:GLU:N	15:M3:592:LEU:O	2.23	0.70
11:I2:1103:LEU:HD13	20:R3:174:ARG:HB2	1.72	0.70
11:I3:1239:ASP:HB3	26:X1:116:ARG:NH2	2.04	0.70
11:I3:1278:ALA:O	26:X1:520:GLU:CA	2.40	0.70
11:I4:1276:GLN:CG	26:X3:522:MET:HE2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1429:TYR:OH	12:J5:267:GLY:HA2	1.90	0.70
21:S1:1032:ILE:HD12	21:S1:1051:ALA:HA	1.74	0.70
21:S1:1074:LEU:HD13	21:S1:1122:VAL:HG13	1.74	0.70
28:Z1:524:VAL:O	30:b1:208:ASN:ND2	2.25	0.70
28:Z2:402:GLY:C	30:b2:273:LYS:CB	2.65	0.70
28:Z2:534:ASP:CA	30:b2:164:CYS:HB3	2.21	0.70
28:Z4:557:CYS:C	30:b4:235:LEU:C	2.58	0.70
1:A1:1201:ARG:HD2	2:A2:734:LEU:CB	2.21	0.70
2:A2:909:LYS:N	6:D1:552:TYR:OH	2.24	0.70
2:A4:868:GLN:CB	6:D3:570:VAL:CG2	2.67	0.70
2:A4:1149:THR:O	3:A6:173:ASN:C	2.35	0.70
2:A4:1149:THR:CB	3:A6:173:ASN:O	2.40	0.70
2:A4:1160:GLN:CD	3:A6:165:PHE:HA	2.17	0.70
3:A5:155:TYR:HH	5:C2:740:ARG:HG2	1.56	0.70
3:A5:1004:HIS:NE2	11:I5:58:ALA:O	2.25	0.70
6:D2:178:LEU:HD21	6:D2:539:PHE:CG	2.26	0.70
8:F1:1267:ARG:CG	17:O2:265:ASN:CG	2.45	0.70
9:G1:262:SER:N	17:O2:256:TYR:HE1	1.89	0.70
11:I1:928:LEU:CD1	20:R1:155:GLU:HG3	2.22	0.70
11:I1:939:ASN:O	17:O1:262:ASP:HA	1.91	0.70
11:I1:1023:ASP:OD1	11:I1:1096:ARG:NH1	2.25	0.70
11:I2:962:ILE:CG1	15:M3:600:ASN:ND2	2.55	0.70
11:I2:1052:LEU:HD23	16:N3:434:LEU:CD1	2.17	0.70
11:I2:1068:HIS:O	16:N3:429:GLU:OE1	2.10	0.70
11:I4:1276:GLN:O	26:X3:522:MET:HG3	1.91	0.70
18:P1:277:PRO:HB2	18:P4:322:LYS:N	2.07	0.70
21:S1:138:VAL:CG1	21:S1:170:THR:HG22	2.22	0.70
28:Z4:527:SER:HB2	30:b4:204:GLU:CG	2.22	0.70
2:A2:1155:ASN:C	3:A5:175:GLU:H	1.99	0.70
2:A2:1156:ASP:H	3:A5:175:GLU:H	1.37	0.70
2:A4:869:ALA:HB1	6:D3:573:LEU:CD2	2.21	0.70
2:A4:970:PHE:C	6:D3:202:GLN:CD	2.40	0.70
2:A4:1135:ARG:HH12	3:A6:157:TRP:C	1.97	0.70
3:A5:164:LEU:HB3	5:C2:744:PHE:HD1	1.48	0.70
3:A6:190:ALA:CA	5:C4:748:ASN:HD21	2.03	0.70
3:A6:1351:MSE:C	28:Z4:918:PHE:HA	2.15	0.70
3:A6:1358:LEU:HD22	28:Z4:876:LEU:N	2.03	0.70
9:G1:262:SER:HB3	17:O2:256:TYR:OH	1.92	0.70
11:I1:950:LEU:CD2	15:M1:606:LEU:HD21	2.22	0.70
11:I2:924:ILE:CB	15:M3:597:LYS:N	2.55	0.70
11:I2:1023:ASP:OD1	11:I2:1096:ARG:NH1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1113:LEU:HD13	17:O3:279:ILE:HG23	1.72	0.70
11:I4:1023:ASP:OD1	11:I4:1096:ARG:NH1	2.25	0.70
11:I4:1182:GLN:NE2	12:J4:245:GLU:HB3	2.07	0.70
28:Z1:402:GLY:C	30:b1:273:LYS:CB	2.65	0.70
28:Z1:638:VAL:O	30:b1:232:PRO:HB3	1.92	0.70
28:Z3:524:VAL:HA	30:b3:237:LEU:O	1.89	0.70
28:Z3:531:LYS:HZ1	30:b3:166:LEU:CB	2.04	0.70
28:Z3:638:VAL:O	30:b3:232:PRO:HB3	1.92	0.70
28:Z4:638:VAL:O	30:b4:232:PRO:HB3	1.92	0.70
1:A1:1098:ARG:NH1	11:I1:1414:CYS:HB2	2.06	0.69
2:A2:825:ARG:NH1	6:D1:633:LYS:HD2	2.05	0.69
2:A2:878:LEU:CD1	6:D1:608:ILE:CG2	2.64	0.69
2:A2:974:PRO:O	6:D1:498:GLU:N	2.24	0.69
2:A2:985:ALA:N	6:D1:498:GLU:HA	2.07	0.69
2:A2:1135:ARG:HH12	3:A5:156:ALA:CB	2.00	0.69
2:A4:172:PRO:HG3	6:D3:781:ARG:CZ	2.22	0.69
2:A4:238:ARG:CZ	4:B4:349:MET:SD	2.79	0.69
2:A4:861:GLN:HA	6:D3:607:PRO:CG	2.22	0.69
2:A4:868:GLN:CD	6:D3:608:ILE:CD1	2.49	0.69
2:A4:1129:PRO:O	3:A6:142:GLU:N	2.25	0.69
2:A4:1131:ILE:HD12	3:A6:160:ILE:CB	2.18	0.69
2:A4:1135:ARG:HG3	3:A6:160:ILE:HD11	1.72	0.69
2:A4:1139:ILE:C	3:A6:130:ILE:HG21	2.16	0.69
6:D1:622:PHE:HB2	6:D1:645:LEU:HD21	1.72	0.69
6:D5:451:SER:O	6:D5:455:VAL:HG13	1.92	0.69
6:D6:178:LEU:HD21	6:D6:539:PHE:CG	2.26	0.69
6:D7:451:SER:O	6:D7:455:VAL:HG13	1.92	0.69
8:F1:1091:SER:HB3	17:O2:241:SER:C	2.11	0.69
11:I1:880:MET:N	17:O1:248:SER:C	2.43	0.69
11:I1:918:SER:OG	16:N1:386:MET:HA	1.91	0.69
11:I1:967:SER:O	15:M1:628:ALA:HB3	1.92	0.69
11:I1:1036:PRO:O	20:R1:173:LEU:HD21	1.91	0.69
11:I1:1043:LEU:HA	16:N1:430:ARG:CD	2.22	0.69
11:I1:1045:PHE:CZ	16:N1:435:ALA:N	2.56	0.69
11:I1:1543:LEU:HD11	11:I2:1677:LYS:HE2	1.74	0.69
11:I2:950:LEU:HB2	16:N3:407:ALA:CB	2.21	0.69
11:I2:1048:GLU:N	17:O3:287:LEU:CD2	2.54	0.69
11:I5:1426:SER:OG	12:J5:263:MET:SD	2.45	0.69
21:S2:138:VAL:CG1	21:S2:170:THR:HG22	2.22	0.69
21:S2:1073:ILE:HD12	21:S2:1074:LEU:N	2.07	0.69
28:Z2:522:ASN:ND2	30:b2:241:PRO:HB3	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:531:LYS:CB	30:b2:182:PRO:O	2.40	0.69
28:Z2:557:CYS:C	30:b2:235:LEU:C	2.58	0.69
28:Z2:561:GLN:CG	30:b2:236:THR:CA	2.69	0.69
28:Z3:524:VAL:O	30:b3:208:ASN:ND2	2.25	0.69
28:Z3:524:VAL:O	30:b3:236:THR:HG21	1.92	0.69
28:Z3:531:LYS:CB	30:b3:182:PRO:O	2.40	0.69
28:Z3:540:LEU:CA	30:b3:165:THR:HG23	2.21	0.69
30:b2:193:ARG:NH1	30:b2:199:GLN:OE1	2.21	0.69
2:A2:780:GLU:CG	6:D1:678:GLY:O	2.40	0.69
1:A3:835:THR:HG23	6:D1:302:PRO:HG3	1.75	0.69
2:A4:1121:LEU:CD2	3:A6:133:LYS:CE	2.68	0.69
2:A4:1154:PHE:CZ	4:B6:342:ARG:CB	2.69	0.69
3:A6:160:ILE:HD12	5:C4:743:LEU:HD11	1.73	0.69
3:A6:189:VAL:HG22	5:C4:742:ASP:HB3	1.73	0.69
3:A6:1337:ALA:HB1	28:Z4:960:CYS:CB	2.20	0.69
6:D4:451:SER:O	6:D4:455:VAL:HG13	1.92	0.69
11:I1:843:GLU:N	15:M1:587:GLU:CD	2.49	0.69
11:I1:880:MET:HE1	15:M1:598:GLU:OE1	1.91	0.69
11:I1:890:TYR:CZ	17:O1:240:GLY:CA	2.74	0.69
11:I1:981:VAL:N	15:M1:621:ARG:CD	2.54	0.69
11:I1:1104:LEU:CB	16:N1:436:ALA:HB1	2.19	0.69
11:I1:1608:SER:O	12:J2:299:GLY:CA	2.40	0.69
11:I1:1669:ARG:HH12	11:I2:1642:LEU:HD13	0.66	0.69
11:I2:952:LEU:C	16:N3:403:VAL:CG2	2.65	0.69
11:I2:1037:THR:N	15:M3:623:LEU:HD22	2.07	0.69
11:I3:1182:GLN:NE2	12:J3:245:GLU:HB3	2.07	0.69
21:S3:1074:LEU:HD13	21:S3:1122:VAL:HG13	1.74	0.69
21:S4:138:VAL:CG1	21:S4:170:THR:HG22	2.22	0.69
23:U1:62:VAL:HG12	23:U1:66:LYS:HE3	1.73	0.69
28:Z4:522:ASN:ND2	30:b4:241:PRO:CA	2.53	0.69
28:Z4:524:VAL:O	30:b4:208:ASN:ND2	2.25	0.69
30:b1:154:GLU:HG2	30:b1:172:THR:HG22	1.73	0.69
2:A2:780:GLU:CA	6:D1:679:ILE:H	2.05	0.69
2:A2:988:ARG:C	6:D1:500:LYS:CE	2.65	0.69
2:A4:860:GLU:O	6:D3:606:LYS:N	2.02	0.69
2:A4:1132:PRO:N	3:A6:145:THR:HG22	2.06	0.69
2:A4:1150:LEU:HD12	5:C4:731:LYS:HG2	1.73	0.69
3:A5:1094:ILE:HG23	11:I5:4:LEU:CG	2.20	0.69
3:A6:186:ILE:C	5:C4:745:SER:HA	2.17	0.69
9:G1:250:THR:O	15:M2:605:THR:HB	1.86	0.69
9:G1:263:MET:HB3	17:O2:260:LEU:CG	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:945:LEU:HB3	17:O1:259:ASP:CB	2.22	0.69
11:I1:1030:ARG:N	20:R1:172:ASP:C	2.50	0.69
11:I1:1048:GLU:CG	17:O1:288:GLU:HG3	2.21	0.69
11:I2:882:LYS:C	17:O3:245:GLU:O	2.35	0.69
11:I2:1042:LEU:C	16:N3:430:ARG:NH2	2.49	0.69
11:I5:1259:ARG:NH2	11:I5:1262:GLN:OE1	2.25	0.69
24:V1:170:GLY:HA3	25:W1:12:ILE:HD12	1.73	0.69
28:Z1:411:LEU:HD23	30:b1:251:ILE:HG21	1.74	0.69
28:Z1:527:SER:HB2	30:b1:204:GLU:CG	2.22	0.69
28:Z2:524:VAL:O	30:b2:208:ASN:ND2	2.25	0.69
28:Z2:555:LYS:HG2	30:b2:213:ASP:N	2.05	0.69
28:Z3:527:SER:HB2	30:b3:204:GLU:CG	2.22	0.69
28:Z4:561:GLN:CG	30:b4:236:THR:CA	2.69	0.69
1:A1:870:HIS:N	6:D3:280:GLN:HB2	2.07	0.69
1:A1:1222:ALA:O	2:A2:731:ILE:CD1	2.39	0.69
1:A1:1399:ARG:CZ	2:A2:888:GLN:CB	2.69	0.69
2:A2:974:PRO:HD2	6:D1:205:LEU:HD21	1.65	0.69
2:A2:974:PRO:O	6:D1:494:LEU:O	2.10	0.69
2:A2:1138:GLU:CG	3:A5:167:TRP:HZ2	2.03	0.69
2:A4:867:GLU:HG3	6:D3:605:THR:CB	2.08	0.69
2:A4:1138:GLU:CA	3:A6:147:LEU:CD1	2.41	0.69
2:A4:1146:PRO:CD	3:A6:129:ASN:ND2	2.54	0.69
6:D2:578:ARG:NH2	6:D2:624:GLU:OE1	2.26	0.69
6:D4:578:ARG:NH2	6:D4:624:GLU:OE1	2.25	0.69
11:I2:989:GLY:N	15:M3:614:ASP:HB3	2.08	0.69
11:I2:1067:PHE:HD2	16:N3:428:ASP:O	1.74	0.69
11:I5:536:GLU:HA	25:W2:8:HIS:N	2.05	0.69
17:O3:148:ARG:NE	18:P3:325:ILE:HG23	2.07	0.69
28:Z1:549:LYS:HB3	30:b1:182:PRO:CG	2.23	0.69
28:Z2:540:LEU:CA	30:b2:165:THR:HG23	2.21	0.69
28:Z2:556:ASN:HD21	30:b2:166:LEU:HD23	1.54	0.69
28:Z3:555:LYS:C	30:b3:212:PHE:HB2	2.16	0.69
28:Z3:556:ASN:HD21	30:b3:166:LEU:HD23	1.54	0.69
28:Z4:522:ASN:ND2	30:b4:241:PRO:CB	2.55	0.69
1:A1:870:HIS:CE1	6:D3:279:HIS:CE1	2.79	0.69
2:A2:867:GLU:CB	6:D1:609:ILE:CG1	2.69	0.69
2:A2:867:GLU:HG3	6:D1:605:THR:OG1	1.93	0.69
2:A4:1054:SER:CB	6:D4:762:ARG:HE	1.96	0.69
3:A6:1393:THR:HG23	28:Z4:904:PHE:C	2.10	0.69
3:A6:1411:ARG:CA	28:Z4:964:LEU:CB	2.66	0.69
6:D6:578:ARG:NH2	6:D6:624:GLU:OE1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:896:PRO:HD3	17:O1:233:THR:HA	1.74	0.69
11:I1:952:LEU:N	17:O1:253:LEU:CD1	2.41	0.69
11:I1:980:ILE:CG1	20:R1:147:LEU:HD12	2.17	0.69
11:I1:1021:ILE:CA	16:N1:406:HIS:HD1	2.03	0.69
11:I1:1041:GLN:HB3	15:M1:620:VAL:HG23	0.70	0.69
11:I1:1677:LYS:CE	11:I2:1543:LEU:HD13	2.22	0.69
11:I2:948:ALA:HA	17:O3:253:LEU:CD2	2.21	0.69
11:I2:1609:GLY:HA3	12:J1:295:TYR:CE1	2.27	0.69
11:I3:1023:ASP:OD1	11:I3:1096:ARG:NH1	2.25	0.69
11:I3:1280:PRO:CD	26:X1:523:LEU:CD1	2.71	0.69
11:I5:1275:SER:C	26:X2:521:TRP:CG	2.64	0.69
21:S2:1074:LEU:HD13	21:S2:1122:VAL:HG13	1.74	0.69
21:S3:138:VAL:CG1	21:S3:170:THR:HG22	2.22	0.69
28:Z4:410:ASN:N	30:b4:251:ILE:HD12	2.04	0.69
2:A2:874:VAL:HG13	6:D1:611:LYS:CG	2.22	0.69
2:A2:980:ARG:CA	6:D1:503:LEU:H	2.00	0.69
2:A2:1141:GLU:HG2	3:A5:129:ASN:HA	1.74	0.69
2:A2:1148:ARG:HH21	3:A5:172:PRO:CA	2.02	0.69
2:A2:1157:TYR:CD1	3:A5:176:LEU:HD21	2.25	0.69
2:A4:880:ALA:HA	6:D3:558:LYS:HE3	1.70	0.69
2:A4:1139:ILE:HA	3:A6:134:VAL:CB	2.04	0.69
3:A5:1370:ALA:N	28:Z2:825:TYR:O	2.25	0.69
3:A6:1416:ARG:O	28:Z4:977:ALA:N	2.23	0.69
6:D3:578:ARG:NH2	6:D3:624:GLU:OE1	2.26	0.69
11:I1:977:ASN:CG	15:M1:621:ARG:C	2.61	0.69
11:I1:981:VAL:HA	20:R1:147:LEU:CD2	2.21	0.69
11:I1:1109:LEU:CB	16:N1:441:PHE:CB	1.79	0.69
11:I1:1611:PHE:CB	11:I2:1672:VAL:CG2	2.70	0.69
11:I2:995:SER:O	17:O3:267:ALA:HB3	1.93	0.69
11:I2:1049:LEU:C	17:O3:287:LEU:C	2.58	0.69
11:I3:1274:HIS:CG	26:X1:534:ILE:HB	2.27	0.69
18:P2:319:VAL:HG23	18:P3:278:ASN:ND2	2.03	0.69
21:S4:1073:ILE:HD12	21:S4:1074:LEU:N	2.07	0.69
28:Z1:557:CYS:C	30:b1:235:LEU:C	2.58	0.69
28:Z2:402:GLY:N	30:b2:254:SER:OG	2.24	0.69
28:Z4:531:LYS:CB	30:b4:182:PRO:O	2.40	0.69
28:Z4:549:LYS:HB3	30:b4:182:PRO:CG	2.23	0.69
2:A2:874:VAL:CG1	6:D1:608:ILE:HA	2.22	0.69
2:A2:874:VAL:HG12	6:D1:608:ILE:HG22	1.74	0.69
2:A2:1141:GLU:HB3	3:A5:130:ILE:HG13	1.73	0.69
2:A2:1161:ALA:CB	3:A5:176:LEU:HB2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:147:LEU:O	5:C2:747:PRO:CG	2.40	0.69
3:A5:1151:THR:OG1	5:C5:733:LEU:HD12	1.93	0.69
3:A6:150:PHE:CD2	5:C4:741:THR:HG22	2.27	0.69
3:A6:1151:THR:OG1	5:C6:733:LEU:HD12	1.93	0.69
3:A6:1414:PHE:HB2	28:Z4:967:PHE:CB	2.22	0.69
8:F1:1205:TRP:CD2	17:O2:254:ARG:CD	2.71	0.69
11:I1:916:ALA:HB2	15:M1:586:ASP:CB	2.22	0.69
11:I1:920:PHE:H	16:N1:393:ILE:HG13	1.56	0.69
11:I1:987:GLY:HA2	15:M1:614:ASP:N	2.08	0.69
11:I1:991:THR:CG2	15:M1:611:LYS:N	2.52	0.69
11:I1:1037:THR:N	20:R1:173:LEU:HD23	1.96	0.69
11:I1:1607:GLN:OE1	11:I2:1738:TYR:N	2.26	0.69
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CZ	2.54	0.69
11:I2:841:PHE:HA	15:M3:591:ASP:CB	2.22	0.69
11:I2:920:PHE:CZ	17:O3:247:TRP:CE3	2.61	0.69
11:I2:925:LEU:HG	15:M3:593:ALA:HB1	1.75	0.69
11:I3:714:THR:O	11:I3:718:GLN:NE2	2.25	0.69
11:I4:714:THR:O	11:I4:718:GLN:NE2	2.25	0.69
11:I4:1271:GLU:OE1	26:X3:504:ILE:CD1	2.40	0.69
21:S1:1073:ILE:HD12	21:S1:1074:LEU:N	2.07	0.69
23:U3:62:VAL:HG12	23:U3:66:LYS:HE3	1.73	0.69
24:V2:170:GLY:HA3	25:W2:12:ILE:HD12	1.72	0.69
24:V4:367:PHE:O	24:V4:369:GLY:N	2.26	0.69
28:Z1:438:GLU:OE1	30:b1:333:HIS:ND1	2.24	0.69
28:Z2:527:SER:HA	30:b2:204:GLU:CG	1.88	0.69
28:Z2:555:LYS:C	30:b2:212:PHE:HB2	2.15	0.69
1:A1:1400:SER:OG	2:A2:885:LEU:CD2	2.40	0.69
2:A2:876:ARG:HD2	6:D1:558:LYS:CA	2.19	0.69
2:A2:969:ASP:O	6:D1:192:TYR:CD1	2.46	0.69
2:A2:1164:TYR:CD1	4:B5:342:ARG:HG2	2.22	0.69
2:A2:1305:ALA:HB1	2:A2:1306:PRO:HD3	1.75	0.69
1:A3:1220:PRO:HA	2:A4:646:ILE:HD13	0.93	0.69
1:A3:1224:PRO:CA	2:A4:731:ILE:CD1	2.54	0.69
2:A4:973:GLU:CB	6:D3:498:GLU:CB	2.71	0.69
2:A4:973:GLU:C	6:D3:499:LEU:HG	2.17	0.69
2:A4:1131:ILE:HA	3:A6:160:ILE:C	2.17	0.69
2:A4:1151:THR:HG23	5:C4:734:VAL:O	1.93	0.69
2:A4:1305:ALA:HB1	2:A4:1306:PRO:HD3	1.75	0.69
3:A5:1368:GLN:C	28:Z2:825:TYR:O	2.36	0.69
3:A6:163:SER:HB3	5:C4:743:LEU:CD2	2.23	0.69
3:A6:1351:MSE:HB2	28:Z4:917:ASP:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1395:LYS:HG2	28:Z4:889:LEU:HA	1.75	0.69
5:C1:732:LYS:HG2	11:I1:1228:GLU:CG	2.23	0.69
6:D2:451:SER:O	6:D2:455:VAL:HG13	1.93	0.69
6:D5:578:ARG:NH2	6:D5:624:GLU:OE1	2.26	0.69
11:I1:925:LEU:HG	15:M1:593:ALA:HA	1.74	0.69
11:I1:957:SER:OG	16:N1:399:HIS:NE2	2.22	0.69
11:I1:991:THR:HG22	15:M1:611:LYS:N	2.08	0.69
11:I1:1052:LEU:C	17:O1:286:ILE:HB	2.17	0.69
11:I1:1054:ILE:C	17:O1:281:ALA:N	2.50	0.69
11:I1:1182:GLN:NE2	12:J1:245:GLU:HB3	2.07	0.69
11:I2:918:SER:OG	16:N3:385:MET:O	2.09	0.69
11:I2:920:PHE:CZ	17:O3:247:TRP:CZ3	2.81	0.69
11:I2:921:GLU:CA	15:M3:592:LEU:HG	2.21	0.69
11:I2:992:ILE:HG23	15:M3:607:SER:O	1.77	0.69
11:I2:1050:SER:CA	17:O3:290:TYR:HB2	2.21	0.69
11:I2:1051:LYS:NZ	17:O3:289:ASP:OD1	2.24	0.69
11:I2:1065:SER:HA	17:O3:274:GLY:CA	2.22	0.69
11:I2:1106:LYS:CB	16:N3:440:GLU:HG3	2.22	0.69
11:I2:1114:VAL:CG1	16:N3:432:TYR:CD2	2.76	0.69
11:I4:1270:LYS:HE3	26:X3:530:ARG:HG2	1.71	0.69
11:I4:1275:SER:CA	26:X3:508:LEU:HD11	2.10	0.69
11:I5:1023:ASP:OD1	11:I5:1096:ARG:NH1	2.25	0.69
28:Z1:555:LYS:HG2	30:b1:213:ASP:N	2.05	0.69
28:Z1:556:ASN:HD21	30:b1:166:LEU:CD2	2.01	0.69
28:Z2:524:VAL:O	30:b2:236:THR:HG21	1.92	0.69
28:Z2:558:LEU:N	30:b2:235:LEU:C	2.46	0.69
28:Z3:404:VAL:HG11	28:Z3:438:GLU:HA	1.73	0.69
1:A1:1224:PRO:CG	2:A2:731:ILE:CD1	2.59	0.69
2:A2:867:GLU:CD	6:D1:593:ARG:HH21	1.99	0.69
2:A2:980:ARG:NH2	6:D1:503:LEU:CG	2.55	0.69
2:A2:1150:LEU:HD12	5:C2:731:LYS:HG2	1.73	0.69
2:A4:868:GLN:HB3	6:D3:570:VAL:HG21	1.73	0.69
2:A4:973:GLU:OE1	6:D3:192:TYR:CE2	2.46	0.69
2:A4:984:ALA:O	6:D3:498:GLU:HA	1.92	0.69
2:A4:1134:GLU:N	3:A6:145:THR:C	2.50	0.69
3:A5:1098:ARG:HD3	11:I5:29:GLN:NE2	1.93	0.69
3:A5:1368:GLN:HA	28:Z2:844:CYS:CB	2.23	0.69
3:A6:1151:THR:HA	5:C6:733:LEU:HD13	1.72	0.69
3:A6:1361:ARG:NH1	28:Z4:879:PHE:N	2.38	0.69
3:A6:1410:ALA:HB1	26:X4:741:GLN:O	1.93	0.69
6:D6:451:SER:O	6:D6:455:VAL:HG13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:980:ILE:HA	15:M1:617:THR:C	2.15	0.69
11:I1:1015:TYR:CD1	16:N1:412:ASN:ND2	2.51	0.69
11:I2:899:LEU:CA	17:O3:235:ASN:HB2	2.23	0.69
11:I2:913:ALA:O	15:M3:584:GLN:HG3	1.93	0.69
11:I2:934:LEU:O	17:O3:261:LYS:HD2	1.91	0.69
11:I2:990:GLU:H	15:M3:611:LYS:HB3	1.58	0.69
11:I2:1024:PHE:CB	16:N3:406:HIS:NE2	2.55	0.69
11:I3:1267:LEU:CD1	26:X1:529:TRP:HE3	1.65	0.69
11:I4:1308:THR:O	11:I4:1312:ASN:ND2	2.26	0.69
21:S2:866:TYR:O	21:S2:868:ASP:N	2.24	0.69
21:S3:1073:ILE:HD12	21:S3:1074:LEU:N	2.07	0.69
21:S4:866:TYR:O	21:S4:868:ASP:N	2.24	0.69
23:U1:162:LEU:HB3	24:V1:315:LYS:HG3	1.74	0.69
24:V2:367:PHE:O	24:V2:369:GLY:N	2.26	0.69
26:X4:454:LEU:O	26:X4:456:SER:N	2.26	0.69
28:Z1:524:VAL:O	30:b1:236:THR:HG21	1.92	0.69
28:Z4:401:THR:CA	30:b4:253:SER:N	2.55	0.69
1:A1:1332:ARG:NH2	6:D1:681:ALA:HB1	2.08	0.69
2:A2:979:GLY:C	6:D1:472:PHE:HB2	2.17	0.69
2:A2:1148:ARG:NH2	3:A5:172:PRO:CA	2.56	0.69
2:A4:172:PRO:CB	6:D3:781:ARG:NE	2.56	0.69
2:A4:235:TYR:CE1	4:B4:347:LEU:CD1	2.75	0.69
2:A4:1132:PRO:CG	3:A6:145:THR:HA	1.87	0.69
2:A4:1149:THR:CA	3:A6:173:ASN:O	2.41	0.69
3:A6:1303:GLN:HG3	28:Z4:838:GLN:CA	2.19	0.69
6:D5:178:LEU:HD21	6:D5:539:PHE:CG	2.27	0.69
6:D7:530:ARG:CG	11:I3:181:GLN:CB	2.60	0.69
6:D7:578:ARG:NH2	6:D7:624:GLU:OE1	2.26	0.69
11:I1:837:MET:SD	17:O1:243:LEU:N	2.65	0.69
11:I1:887:GLN:HB2	16:N1:393:ILE:CD1	2.13	0.69
11:I1:1603:ARG:HB3	11:I2:1738:TYR:C	2.17	0.69
11:I2:841:PHE:HA	15:M3:591:ASP:OD2	1.93	0.69
11:I2:1182:GLN:NE2	12:J2:245:GLU:HB3	2.07	0.69
11:I4:1279:THR:N	26:X3:520:GLU:O	2.26	0.69
11:I5:1182:GLN:NE2	12:J5:245:GLU:HB3	2.07	0.69
28:Z3:447:GLU:HG3	30:b3:248:SER:CB	2.23	0.69
1:A1:1392:ARG:O	2:A2:888:GLN:O	2.11	0.68
2:A2:224:PRO:HD2	6:D1:709:ARG:NH1	1.99	0.68
2:A2:865:ALA:N	6:D1:604:ASP:O	2.26	0.68
2:A2:1138:GLU:CG	3:A5:167:TRP:CZ2	2.76	0.68
2:A2:1140:GLU:OE1	3:A5:135:PHE:CE1	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1156:ASP:OD1	3:A5:168:ASP:CA	2.41	0.68
1:A3:1098:ARG:CD	11:I2:1478:VAL:HG22	2.22	0.68
2:A4:989:MSE:CG	6:D3:500:LYS:HD2	2.22	0.68
2:A4:1142:PHE:HD2	3:A6:129:ASN:O	1.74	0.68
2:A4:1151:THR:HA	5:C4:733:LEU:CA	2.22	0.68
3:A6:164:LEU:N	5:C4:743:LEU:CD2	2.56	0.68
3:A6:1351:MSE:HE1	28:Z4:913:ILE:N	2.01	0.68
3:A6:1399:ARG:CZ	28:Z4:945:VAL:C	2.65	0.68
8:F2:1095:TYR:N	17:O4:244:GLU:OE1	2.18	0.68
11:I1:881:ILE:C	17:O1:246:LEU:HA	2.18	0.68
11:I1:941:GLY:C	17:O1:260:LEU:HA	2.18	0.68
11:I1:956:ILE:HG12	15:M1:599:ILE:CD1	2.23	0.68
11:I1:967:SER:HA	20:R1:153:GLN:OE1	1.93	0.68
11:I1:1013:GLU:C	16:N1:411:GLN:O	2.36	0.68
11:I1:1308:THR:O	11:I1:1312:ASN:ND2	2.26	0.68
11:I2:797:LEU:CD2	17:O3:245:GLU:HG2	2.16	0.68
11:I2:887:GLN:HA	17:O3:242:ARG:CB	2.23	0.68
11:I2:1308:THR:O	11:I2:1312:ASN:ND2	2.26	0.68
11:I3:1259:ARG:NH2	11:I3:1262:GLN:OE1	2.25	0.68
17:O4:111:TYR:HD1	18:P4:325:ILE:HD12	1.58	0.68
28:Z1:447:GLU:HG3	30:b1:248:SER:CB	2.23	0.68
28:Z1:531:LYS:CB	30:b1:182:PRO:O	2.40	0.68
28:Z2:638:VAL:O	30:b2:232:PRO:HB3	1.92	0.68
28:Z3:402:GLY:C	30:b3:273:LYS:CB	2.65	0.68
28:Z4:524:VAL:O	30:b4:236:THR:HG21	1.92	0.68
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ1	1.77	0.68
1:A1:1398:LYS:O	2:A2:884:ARG:CZ	2.39	0.68
2:A2:826:ASN:OD1	6:D1:633:LYS:CB	2.38	0.68
2:A2:866:SER:H	6:D1:605:THR:N	1.89	0.68
1:A3:1048:ARG:NH2	6:D3:819:ASN:HD21	1.87	0.68
2:A4:880:ALA:HB2	6:D3:558:LYS:CD	2.23	0.68
2:A4:1131:ILE:HD12	3:A6:160:ILE:HD13	1.75	0.68
3:A5:993:ASN:C	11:I5:57:GLU:HG3	2.10	0.68
3:A6:1309:GLY:O	28:Z4:830:LEU:CB	2.40	0.68
3:A6:1387:ILE:O	28:Z4:866:GLU:CB	2.40	0.68
8:F2:1091:SER:O	17:O4:244:GLU:CB	2.40	0.68
11:I1:895:ARG:C	17:O1:233:THR:HA	2.16	0.68
11:I1:978:LYS:CG	20:R1:150:ASN:C	2.65	0.68
11:I1:1043:LEU:CD2	16:N1:430:ARG:CB	2.70	0.68
11:I2:923:GLY:HA3	15:M3:591:ASP:CA	2.23	0.68
11:I2:951:LYS:HG2	16:N3:404:GLU:HG2	1.70	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1277:LEU:HD11	26:X1:511:TYR:HD2	1.46	0.68
17:O3:151:LEU:CD2	18:P3:325:ILE:HD11	2.20	0.68
17:O3:161:ASN:C	18:P3:315:GLU:CD	2.54	0.68
28:Z4:402:GLY:C	30:b4:273:LYS:CB	2.65	0.68
1:A1:831:ALA:C	6:D3:298:ASN:HD22	2.01	0.68
2:A2:825:ARG:HD3	6:D1:633:LYS:NZ	2.02	0.68
2:A2:1153:LEU:O	3:A5:175:GLU:HA	1.93	0.68
2:A4:966:LEU:O	6:D3:202:GLN:OE1	2.12	0.68
2:A4:1122:LEU:HB2	3:A6:132:ASP:CB	2.23	0.68
2:A4:1124:ARG:N	3:A6:136:GLU:HB3	2.08	0.68
2:A4:1133:GLU:C	3:A6:145:THR:CG2	2.58	0.68
3:A5:1369:ILE:HD11	28:Z2:831:LEU:C	2.18	0.68
11:I2:714:THR:O	11:I2:718:GLN:NE2	2.25	0.68
11:I2:790:LEU:HD22	17:O3:251:ILE:HD13	1.75	0.68
11:I2:884:LEU:C	16:N3:397:GLU:HG2	2.18	0.68
11:I2:994:ALA:CB	17:O3:268:GLY:C	2.66	0.68
11:I2:1033:PRO:HB3	20:R3:174:ARG:HA	1.74	0.68
11:I2:1069:SER:HB2	16:N3:427:VAL:N	2.08	0.68
11:I4:1274:HIS:CE1	26:X3:530:ARG:N	2.61	0.68
26:X2:454:LEU:O	26:X2:456:SER:N	2.26	0.68
26:X4:163:LYS:HB2	26:X4:172:PHE:CD1	2.29	0.68
28:Z2:410:ASN:HB3	30:b2:251:ILE:CD1	2.18	0.68
28:Z3:558:LEU:N	30:b3:235:LEU:C	2.46	0.68
2:A2:992:TYR:HB3	6:D1:238:ALA:CB	2.23	0.68
2:A2:1151:THR:HA	5:C2:733:LEU:CA	2.22	0.68
2:A2:1156:ASP:CG	3:A5:168:ASP:CA	2.66	0.68
2:A4:781:ARG:HH11	6:D3:673:ARG:NH1	1.92	0.68
3:A5:1363:ASP:HB2	28:Z2:875:LEU:H	1.57	0.68
3:A6:1303:GLN:N	28:Z4:838:GLN:HA	2.00	0.68
3:A6:1351:MSE:HG3	28:Z4:917:ASP:N	2.06	0.68
9:G1:263:MET:CB	17:O2:260:LEU:HD22	2.23	0.68
11:I1:714:THR:O	11:I1:718:GLN:NE2	2.25	0.68
11:I1:838:GLU:N	17:O1:240:GLY:HA3	2.07	0.68
11:I1:978:LYS:HG3	20:R1:153:GLN:N	2.07	0.68
11:I2:914:ASN:O	15:M3:585:LEU:O	2.12	0.68
11:I2:983:LEU:HD13	15:M3:621:ARG:NH2	2.08	0.68
11:I2:1040:HIS:CG	16:N3:434:LEU:HD12	2.28	0.68
11:I4:1273:GLU:O	26:X3:522:MET:C	2.36	0.68
11:I5:1308:THR:O	11:I5:1312:ASN:ND2	2.26	0.68
17:O4:109:PRO:CB	18:P4:318:PRO:CB	2.71	0.68
18:P2:319:VAL:C	18:P3:280:THR:OG1	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:671:LYS:O	22:T4:674:VAL:HG12	1.94	0.68
23:U4:8:GLN:C	23:U4:10:GLU:H	1.99	0.68
23:U4:162:LEU:HB3	24:V4:315:LYS:HG3	1.74	0.68
24:V1:367:PHE:O	24:V1:369:GLY:N	2.26	0.68
26:X1:454:LEU:O	26:X1:456:SER:N	2.26	0.68
28:Z2:410:ASN:N	30:b2:251:ILE:CD1	2.56	0.68
28:Z3:549:LYS:HB3	30:b3:182:PRO:CG	2.23	0.68
2:A2:867:GLU:HB2	6:D1:609:ILE:CG1	2.24	0.68
2:A2:977:VAL:C	6:D1:493:ALA:HA	1.84	0.68
2:A2:1164:TYR:CE1	4:B5:342:ARG:HD3	2.25	0.68
1:A3:1197:ALA:CB	2:A4:728:LYS:NZ	2.57	0.68
2:A4:983:LEU:CG	6:D3:497:PHE:CZ	2.76	0.68
2:A4:1135:ARG:H	3:A6:145:THR:CA	2.05	0.68
3:A5:1101:GLN:OE1	11:I5:33:THR:CG2	2.41	0.68
3:A5:1313:LYS:CA	28:Z2:830:LEU:O	2.41	0.68
6:D1:451:SER:O	6:D1:455:VAL:HG13	1.93	0.68
6:D3:451:SER:O	6:D3:455:VAL:HG13	1.93	0.68
8:F2:1088:GLU:O	17:O4:249:ARG:HB2	1.84	0.68
11:I1:881:ILE:N	17:O1:249:ARG:CA	2.42	0.68
11:I2:833:PHE:HE2	17:O3:238:ALA:O	1.77	0.68
11:I2:931:VAL:HG23	15:M3:600:ASN:O	1.92	0.68
11:I5:714:THR:O	11:I5:718:GLN:NE2	2.25	0.68
23:U2:162:LEU:HB3	24:V2:315:LYS:HG3	1.74	0.68
28:Z3:557:CYS:C	30:b3:235:LEU:C	2.58	0.68
2:A2:982:THR:CB	6:D1:494:LEU:HA	2.23	0.68
2:A2:1142:PHE:CE1	3:A5:567:VAL:CG2	2.74	0.68
2:A4:1139:ILE:CD1	3:A6:138:LEU:HG	2.22	0.68
2:A4:1141:GLU:O	3:A6:565:THR:O	2.12	0.68
2:A4:1148:ARG:HH22	3:A6:174:PRO:HG2	1.53	0.68
3:A6:222:ALA:HB2	5:C4:739:MET:SD	2.32	0.68
6:D1:578:ARG:NH2	6:D1:624:GLU:OE1	2.26	0.68
8:F1:1203:TRP:HH2	17:O2:248:SER:CA	1.77	0.68
9:G1:266:ASP:C	16:N2:414:ALA:C	2.61	0.68
11:I1:876:ALA:O	17:O1:248:SER:CA	2.40	0.68
11:I1:928:LEU:HG	20:R1:155:GLU:HG3	1.76	0.68
11:I1:939:ASN:C	17:O1:265:ASN:HB2	2.18	0.68
11:I1:952:LEU:HD12	16:N1:400:LEU:HD21	0.68	0.68
11:I1:1673:VAL:H	11:I2:1611:PHE:C	2.00	0.68
11:I2:840:LEU:HG	17:O3:244:GLU:HG2	1.75	0.68
11:I2:887:GLN:HE22	16:N3:396:ILE:CB	2.05	0.68
11:I2:1037:THR:N	15:M3:620:VAL:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD2	2.23	0.68
11:I2:1110:SER:HB2	16:N3:438:LEU:N	2.00	0.68
11:I4:1274:HIS:CB	26:X3:531:LEU:HD12	2.24	0.68
11:I4:1276:GLN:NE2	26:X3:535:ALA:HA	2.09	0.68
17:O3:102:LYS:CB	18:P3:322:LYS:CD	2.70	0.68
26:X3:163:LYS:HB2	26:X3:172:PHE:CD1	2.29	0.68
26:X3:454:LEU:O	26:X3:456:SER:N	2.26	0.68
28:Z1:410:ASN:N	30:b1:251:ILE:CD1	2.56	0.68
28:Z2:527:SER:HB2	30:b2:204:GLU:CG	2.22	0.68
28:Z2:549:LYS:HB3	30:b2:182:PRO:CG	2.23	0.68
28:Z3:410:ASN:N	30:b3:251:ILE:CD1	2.56	0.68
28:Z3:522:ASN:ND2	30:b3:241:PRO:HB3	2.07	0.68
28:Z3:539:GLU:OE1	30:b3:165:THR:N	2.15	0.68
28:Z4:404:VAL:HG11	28:Z4:438:GLU:HA	1.73	0.68
28:Z4:410:ASN:N	30:b4:251:ILE:CD1	2.56	0.68
1:A1:868:GLN:O	6:D3:277:ASN:CA	2.41	0.68
2:A2:874:VAL:CG1	6:D1:571:SER:OG	2.41	0.68
2:A2:1131:ILE:HG12	3:A5:137:HIS:CG	2.28	0.68
2:A4:880:ALA:CA	6:D3:558:LYS:CE	2.72	0.68
2:A4:1141:GLU:HB2	3:A6:130:ILE:HD12	1.72	0.68
2:A4:1153:LEU:HD22	3:A6:133:LYS:HD3	1.75	0.68
2:A4:1167:CYS:HG	4:B6:342:ARG:HG3	1.59	0.68
3:A6:1337:ALA:CA	28:Z4:960:CYS:CB	2.71	0.68
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HD2	1.48	0.68
8:F2:1091:SER:O	17:O4:244:GLU:OE1	2.12	0.68
11:I1:984:GLU:HG3	15:M1:617:THR:HG23	1.75	0.68
11:I1:1024:PHE:CG	16:N1:406:HIS:CG	2.82	0.68
11:I2:899:LEU:HG	17:O3:235:ASN:CA	2.23	0.68
11:I2:990:GLU:C	17:O3:272:SER:N	2.51	0.68
11:I2:1029:LEU:HD11	16:N3:433:GLU:OE1	1.80	0.68
11:I2:1043:LEU:CA	16:N3:430:ARG:HD2	2.22	0.68
11:I2:1069:SER:N	16:N3:428:ASP:N	2.13	0.68
26:X2:163:LYS:HB2	26:X2:172:PHE:CD1	2.29	0.68
28:Z2:447:GLU:HG3	30:b2:248:SER:CB	2.23	0.68
28:Z3:411:LEU:HD23	30:b3:251:ILE:HG21	1.74	0.68
28:Z3:525:LEU:C	30:b3:208:ASN:CG	2.60	0.68
1:A1:1399:ARG:HB2	2:A2:888:GLN:OE1	1.94	0.68
2:A2:225:THR:HG22	6:D1:709:ARG:N	1.94	0.68
2:A2:779:ASP:C	6:D1:679:ILE:N	2.47	0.68
2:A2:780:GLU:CA	6:D1:679:ILE:N	2.57	0.68
2:A2:867:GLU:HB2	6:D1:609:ILE:HG12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1141:GLU:N	3:A5:130:ILE:CB	2.48	0.68
2:A4:863:GLN:HA	6:D3:603:SER:O	1.83	0.68
2:A4:980:ARG:O	6:D3:496:LEU:HD13	1.93	0.68
2:A4:1167:CYS:HB3	4:B6:342:ARG:CG	2.24	0.68
3:A5:222:ALA:HB1	5:C2:739:MET:CB	2.24	0.68
3:A6:180:GLU:CG	5:C4:744:PHE:HZ	2.07	0.68
6:D3:743:HIS:NE2	11:I2:1528:ARG:HG3	2.09	0.68
6:D7:537:ARG:NH2	11:I3:173:ARG:NH2	2.40	0.68
8:F1:1264:ARG:HH22	17:O2:264:ILE:HD13	1.58	0.68
8:F2:983:SER:HB2	11:I2:1388:GLU:OE1	1.85	0.68
11:I1:872:SER:O	17:O1:251:ILE:HG21	1.94	0.68
11:I1:911:PRO:CB	15:M1:584:GLN:HE22	2.05	0.68
11:I1:1033:PRO:C	16:N1:441:PHE:CE1	2.70	0.68
11:I1:1039:ALA:N	20:R1:169:GLY:C	2.09	0.68
11:I1:1055:GLU:N	17:O1:281:ALA:H	1.92	0.68
11:I1:1066:LEU:CA	16:N1:430:ARG:CG	2.71	0.68
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG12	2.18	0.68
11:I2:922:ASP:H	15:M3:592:LEU:HG	1.59	0.68
11:I2:966:TRP:C	20:R3:153:GLN:CD	2.62	0.68
11:I2:981:VAL:HA	20:R3:147:LEU:CD2	2.05	0.68
11:I2:1040:HIS:CB	16:N3:434:LEU:CD1	2.69	0.68
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD21	1.76	0.68
21:S2:293:ASN:CB	21:S2:310:TRP:O	2.42	0.68
21:S4:1074:LEU:HD13	21:S4:1122:VAL:HG13	1.74	0.68
22:T3:671:LYS:O	22:T3:674:VAL:HG12	1.94	0.68
2:A2:908:LEU:C	6:D1:552:TYR:HE1	2.01	0.68
2:A2:1143:LEU:HB2	3:A5:131:PRO:C	2.19	0.68
2:A4:875:LEU:HG	6:D3:564:ASN:OD1	1.94	0.68
3:A5:1005:PHE:CD1	11:I5:67:LYS:NZ	2.61	0.68
3:A6:1366:LEU:HD12	28:Z4:870:ILE:H	1.59	0.68
9:G2:255:LEU:C	17:O4:262:ASP:OD2	2.37	0.68
11:I2:934:LEU:HB2	15:M3:602:MET:O	1.81	0.68
11:I2:1041:GLN:O	17:O3:275:LEU:HD13	1.93	0.68
11:I3:1275:SER:CA	26:X1:508:LEU:HG	2.01	0.68
11:I3:1280:PRO:CD	26:X1:523:LEU:HD13	2.20	0.68
21:S3:293:ASN:CB	21:S3:310:TRP:O	2.42	0.68
24:V3:367:PHE:O	24:V3:369:GLY:N	2.26	0.68
27:Y4:220:TRP:HA	27:Y4:231:ILE:HG22	1.76	0.68
28:Z1:522:ASN:ND2	30:b1:241:PRO:HB3	2.07	0.68
28:Z2:551:THR:CG2	30:b2:233:TRP:HZ3	1.52	0.68
2:A2:460:ARG:NH2	2:A2:463:ASP:OD2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:980:ARG:CZ	6:D1:503:LEU:CB	2.63	0.68
2:A4:460:ARG:NH2	2:A4:463:ASP:OD2	2.26	0.68
2:A4:861:GLN:C	6:D3:607:PRO:CG	2.61	0.68
2:A4:861:GLN:HA	6:D3:607:PRO:CB	2.23	0.68
2:A4:978:ASP:O	6:D3:475:ALA:N	2.27	0.68
3:A5:164:LEU:HD11	5:C2:745:SER:N	1.96	0.68
3:A5:1379:GLY:O	28:Z2:811:LEU:C	2.27	0.68
3:A6:1319:ILE:HD12	28:Z4:874:ASN:CB	2.22	0.68
3:A6:1338:ALA:N	28:Z4:960:CYS:CB	2.55	0.68
3:A6:1393:THR:CB	28:Z4:904:PHE:C	2.67	0.68
6:D7:527:ASN:O	11:I3:181:GLN:CD	2.35	0.68
8:F1:1137:GLN:HG2	17:O2:248:SER:N	1.45	0.68
11:I1:843:GLU:OE1	15:M1:590:LYS:CD	2.40	0.68
11:I1:1671:LEU:HD21	11:I2:1670:GLY:O	1.90	0.68
17:O3:158:GLU:HG2	18:P3:315:GLU:HA	1.75	0.68
27:Y3:102:CYS:SG	27:Y3:103:THR:N	2.67	0.68
28:Z4:400:LYS:O	30:b4:252:ALA:HB1	1.94	0.68
2:A2:1151:THR:HG23	5:C2:734:VAL:O	1.93	0.67
2:A4:982:THR:N	6:D3:496:LEU:C	2.50	0.67
3:A5:1026:PRO:CG	11:I5:102:ILE:HD13	2.22	0.67
3:A6:146:LYS:CD	5:C4:746:PRO:HB3	2.23	0.67
3:A6:1303:GLN:OE1	28:Z4:829:SER:HA	1.93	0.67
3:A6:1366:LEU:HD12	28:Z4:870:ILE:N	2.09	0.67
3:A6:1375:THR:HB	28:Z4:818:PRO:CA	2.19	0.67
3:A6:1393:THR:HA	28:Z4:904:PHE:C	2.19	0.67
11:I1:797:LEU:CD1	17:O1:245:GLU:HG3	2.22	0.67
11:I1:925:LEU:HB2	20:R1:164:PRO:C	1.98	0.67
11:I1:984:GLU:HA	15:M1:614:ASP:N	2.09	0.67
11:I2:833:PHE:CZ	17:O3:242:ARG:HA	2.27	0.67
11:I2:962:ILE:O	20:R3:165:SER:OG	2.07	0.67
11:I2:1037:THR:HB	20:R3:173:LEU:CD2	2.24	0.67
11:I2:1039:ALA:HB2	20:R3:170:LEU:CB	1.82	0.67
11:I4:1273:GLU:HG2	26:X3:526:CYS:HB2	1.73	0.67
17:O4:110:LEU:CD2	18:P4:321:ILE:HG13	2.22	0.67
22:T2:671:LYS:O	22:T2:674:VAL:HG12	1.94	0.67
27:Y2:41:ASP:HA	29:a2:230:GLN:OE1	1.94	0.67
28:Z4:447:GLU:HG3	30:b4:248:SER:CB	2.23	0.67
1:A1:875:LEU:HD13	6:D3:277:ASN:HB2	1.75	0.67
2:A2:870:HIS:CD2	6:D1:566:PHE:HD1	1.61	0.67
2:A2:1153:LEU:O	3:A5:175:GLU:CA	2.43	0.67
2:A2:1156:ASP:CG	3:A5:168:ASP:CB	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:N	2:A4:734:LEU:HD22	2.07	0.67
2:A4:980:ARG:HD2	6:D3:526:LEU:N	2.09	0.67
3:A5:155:TYR:CD2	5:C2:740:ARG:CB	2.75	0.67
3:A5:207:LEU:HD11	5:C2:742:ASP:HB3	1.76	0.67
3:A5:1027:HIS:CG	11:I5:67:LYS:HG3	2.29	0.67
3:A6:1405:LEU:N	28:Z4:919:PHE:O	2.23	0.67
3:A6:1410:ALA:CB	26:X4:744:MET:CA	2.67	0.67
6:D7:176:SER:HB2	11:I3:95:LYS:HZ1	1.57	0.67
6:D7:179:ASP:OD2	11:I3:49:PRO:HA	1.94	0.67
6:D7:187:ARG:HH12	11:I3:54:LYS:NZ	1.92	0.67
6:D7:622:PHE:CB	6:D7:645:LEU:HD21	2.25	0.67
11:I1:841:PHE:CD2	15:M1:588:MET:HE1	2.25	0.67
11:I1:978:LYS:HG3	20:R1:150:ASN:C	2.19	0.67
11:I1:991:THR:HG23	15:M1:609:GLY:H	1.58	0.67
11:I1:1038:ILE:HD13	15:M1:620:VAL:HG12	0.69	0.67
11:I2:952:LEU:HD12	16:N3:400:LEU:HD21	1.74	0.67
11:I2:958:THR:CB	16:N3:399:HIS:HD2	1.88	0.67
11:I2:1018:LYS:H	16:N3:413:VAL:CA	1.90	0.67
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD21	2.23	0.67
11:I3:1267:LEU:CA	26:X1:529:TRP:HA	2.22	0.67
27:Y1:102:CYS:SG	27:Y1:103:THR:N	2.67	0.67
27:Y3:220:TRP:HA	27:Y3:231:ILE:HG22	1.76	0.67
27:Y4:306:GLU:N	27:Y4:324:ASP:OD2	2.27	0.67
28:Z4:411:LEU:HG	30:b4:251:ILE:CG1	2.25	0.67
1:A1:1091:VAL:HG12	6:D1:804:SER:HG	0.85	0.67
2:A2:781:ARG:CG	6:D1:673:ARG:CB	2.67	0.67
1:A3:1048:ARG:NH2	6:D3:790:ARG:HH22	1.93	0.67
1:A3:1091:VAL:CG2	6:D3:808:ASN:CB	2.71	0.67
2:A4:982:THR:CG2	6:D3:496:LEU:CB	2.59	0.67
2:A4:990:GLU:OE2	6:D3:556:ASP:O	2.12	0.67
9:G1:263:MET:HB3	17:O2:260:LEU:HD13	1.76	0.67
11:I1:895:ARG:C	17:O1:233:THR:CA	2.66	0.67
11:I1:967:SER:HB2	15:M1:625:GLY:C	2.18	0.67
11:I1:1543:LEU:HD13	11:I2:1677:LYS:NZ	2.09	0.67
11:I2:923:GLY:HA3	15:M3:591:ASP:O	1.94	0.67
11:I2:950:LEU:HB2	16:N3:407:ALA:HB2	1.76	0.67
11:I2:1049:LEU:O	17:O3:287:LEU:O	2.12	0.67
11:I3:1278:ALA:O	26:X1:520:GLU:CB	2.41	0.67
11:I5:1280:PRO:HG3	26:X2:523:LEU:CD1	2.23	0.67
27:Y2:306:GLU:N	27:Y2:324:ASP:OD2	2.27	0.67
1:A1:874:VAL:HG11	6:D3:272:VAL:C	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1204:TRP:CD1	2:A2:672:ARG:HD3	2.29	0.67
2:A2:864:ARG:HH21	6:D1:634:ASN:HB2	1.59	0.67
2:A2:1134:GLU:CG	3:A5:146:LYS:CG	2.29	0.67
2:A2:1155:ASN:HD21	5:C2:735:ILE:CA	2.02	0.67
1:A3:1204:TRP:HB2	2:A4:731:ILE:CB	2.25	0.67
1:A3:1204:TRP:HB2	2:A4:731:ILE:CA	2.25	0.67
1:A3:1224:PRO:HA	2:A4:731:ILE:HD13	1.70	0.67
2:A4:873:PRO:O	6:D3:563:GLU:HB3	1.94	0.67
2:A4:984:ALA:N	6:D3:497:PHE:C	2.47	0.67
3:A5:157:TRP:NE1	5:C2:747:PRO:HA	2.01	0.67
3:A5:1026:PRO:HB3	11:I5:73:TYR:HE1	1.51	0.67
3:A6:1410:ALA:C	26:X4:742:ALA:C	2.61	0.67
6:D5:622:PHE:CB	6:D5:645:LEU:HD21	2.25	0.67
8:F1:1137:GLN:CA	17:O2:244:GLU:O	2.43	0.67
9:G1:258:LYS:NZ	16:N2:408:MET:CA	2.37	0.67
11:I1:797:LEU:HD13	17:O1:245:GLU:HG3	1.70	0.67
11:I1:937:TYR:HB3	17:O1:258:GLU:HA	0.67	0.67
11:I1:1026:TYR:O	20:R1:172:ASP:HA	1.94	0.67
11:I2:945:LEU:HA	17:O3:255:GLY:O	1.95	0.67
11:I2:982:GLN:HB3	15:M3:621:ARG:CZ	2.25	0.67
11:I2:1046:HIS:N	15:M3:619:ILE:CD1	2.40	0.67
11:I5:357:ASP:OD1	11:I5:360:ARG:NH2	2.28	0.67
22:T1:671:LYS:O	22:T1:674:VAL:HG12	1.94	0.67
27:Y2:220:TRP:HA	27:Y2:231:ILE:HG22	1.76	0.67
28:Z3:335:VAL:HG13	28:Z3:352:ILE:HB	1.77	0.67
28:Z3:401:THR:CA	30:b3:253:SER:N	2.55	0.67
2:A4:781:ARG:NH1	6:D3:674:TYR:CE1	2.62	0.67
2:A4:1122:LEU:HA	3:A6:136:GLU:N	2.07	0.67
2:A4:1155:ASN:HB2	3:A6:175:GLU:C	2.19	0.67
3:A5:1372:THR:HB	28:Z2:828:LEU:HA	1.77	0.67
3:A5:1392:ARG:NH1	28:Z2:863:ASP:O	2.28	0.67
6:D2:622:PHE:CB	6:D2:645:LEU:HD21	2.25	0.67
6:D6:622:PHE:CB	6:D6:645:LEU:HD21	2.25	0.67
8:F1:1138:TRP:CB	17:O2:244:GLU:CD	2.65	0.67
9:G1:254:ASN:OD1	15:M2:605:THR:CB	2.40	0.67
9:G1:270:ARG:CA	16:N2:413:VAL:O	2.42	0.67
11:I1:955:LYS:HE2	16:N1:397:GLU:CA	2.24	0.67
11:I1:1041:GLN:N	15:M1:620:VAL:CG2	2.57	0.67
11:I2:873:ILE:O	17:O3:255:GLY:N	2.28	0.67
11:I2:894:VAL:HB	17:O3:239:GLN:H	0.51	0.67
11:I2:950:LEU:HG	15:M3:606:LEU:CD2	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1058:GLY:CA	17:O3:277:GLU:HA	2.13	0.67
11:I3:1274:HIS:HB3	26:X1:534:ILE:CG2	2.25	0.67
11:I4:1276:GLN:O	26:X3:519:ILE:C	2.36	0.67
17:O3:147:ALA:HB3	18:P3:328:PRO:CG	2.22	0.67
28:Z3:531:LYS:HZ3	30:b3:166:LEU:CB	2.05	0.67
28:Z3:555:LYS:HG2	30:b3:213:ASP:N	2.05	0.67
2:A2:864:ARG:NH1	6:D1:610:ASN:HD21	1.70	0.67
2:A2:869:ALA:HA	6:D1:583:ILE:CG2	2.24	0.67
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CA	2.23	0.67
3:A6:1310:ARG:N	28:Z4:827:GLN:CA	2.53	0.67
6:D7:176:SER:CB	11:I3:95:LYS:HZ3	2.08	0.67
11:I1:957:SER:CA	20:R1:166:LEU:HD13	2.15	0.67
11:I1:1030:ARG:HD2	20:R1:175:GLN:OE1	1.94	0.67
11:I1:1584:LEU:HD21	12:J1:275:PHE:CD1	2.30	0.67
11:I2:899:LEU:CD1	17:O3:230:ILE:O	2.42	0.67
11:I2:955:LYS:NZ	16:N3:400:LEU:CD1	2.55	0.67
11:I2:976:ARG:HE	20:R3:143:PHE:C	2.01	0.67
11:I2:980:ILE:N	20:R3:147:LEU:CD1	2.52	0.67
11:I2:1039:ALA:O	20:R3:170:LEU:HD21	1.91	0.67
11:I2:1584:LEU:HD21	12:J2:275:PHE:CD1	2.30	0.67
11:I3:357:ASP:OD1	11:I3:360:ARG:NH2	2.28	0.67
11:I4:1584:LEU:HD21	12:J4:275:PHE:CD1	2.30	0.67
15:M3:483:LYS:HZ1	16:N4:327:LYS:CE	2.07	0.67
21:S1:293:ASN:CB	21:S1:310:TRP:O	2.42	0.67
21:S4:293:ASN:CB	21:S4:310:TRP:O	2.42	0.67
23:U3:162:LEU:HB3	24:V3:315:LYS:HG3	1.74	0.67
28:Z1:400:LYS:O	30:b1:252:ALA:HB1	1.94	0.67
28:Z1:540:LEU:CA	30:b1:165:THR:HG23	2.21	0.67
28:Z1:558:LEU:N	30:b1:235:LEU:C	2.46	0.67
28:Z2:523:ASP:CB	30:b2:238:ASN:CA	1.89	0.67
1:A1:870:HIS:CA	6:D3:279:HIS:CB	2.63	0.67
2:A2:826:ASN:HB3	6:D1:633:LYS:O	1.94	0.67
2:A2:1128:ASP:CA	3:A5:137:HIS:HA	2.25	0.67
1:A3:1021:LEU:HD12	6:D3:819:ASN:HB2	1.77	0.67
2:A4:864:ARG:HB3	6:D3:608:ILE:HG12	1.76	0.67
2:A4:864:ARG:H	6:D3:607:PRO:HD2	1.60	0.67
3:A6:1378:GLY:CA	28:Z4:816:THR:CB	2.47	0.67
8:F1:1808:VAL:O	8:F1:1833:ARG:NH1	2.28	0.67
9:G1:260:THR:HG23	17:O2:259:ASP:CB	2.25	0.67
11:I1:842:ASN:HA	15:M1:587:GLU:CG	2.25	0.67
11:I1:958:THR:CB	16:N1:399:HIS:HA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:953:LEU:HD11	15:M3:606:LEU:H	1.60	0.67
11:I2:953:LEU:HD11	15:M3:602:MET:O	1.95	0.67
23:U1:13:THR:O	23:U1:17:ASP:N	2.24	0.67
28:Z2:411:LEU:HD23	30:b2:251:ILE:HG21	1.74	0.67
2:A2:227:SER:CB	6:D1:711:PHE:CB	2.73	0.67
2:A2:825:ARG:NH1	6:D1:679:ILE:HD11	2.08	0.67
2:A2:980:ARG:N	6:D1:473:GLU:CG	2.57	0.67
2:A4:1136:LYS:CD	3:A6:139:ASN:C	2.64	0.67
3:A6:1316:VAL:CB	28:Z4:871:HIS:HA	2.25	0.67
9:G1:262:SER:O	16:N2:411:GLN:CG	2.41	0.67
9:G2:255:LEU:HA	17:O4:262:ASP:OD1	1.94	0.67
11:I1:925:LEU:HB2	20:R1:164:PRO:O	1.87	0.67
11:I1:1021:ILE:HG13	16:N1:406:HIS:O	1.95	0.67
11:I1:1028:CYS:SG	20:R1:168:LEU:HB3	2.34	0.67
11:I1:1049:LEU:HD12	15:M1:626:HIS:HD2	0.86	0.67
11:I2:925:LEU:HD13	20:R3:156:GLY:CA	2.24	0.67
11:I2:944:GLU:O	17:O3:256:TYR:C	2.16	0.67
11:I2:950:LEU:HD23	15:M3:606:LEU:CG	2.24	0.67
11:I2:1017:VAL:HG22	17:O3:260:LEU:HD11	1.73	0.67
11:I3:1308:THR:O	11:I3:1312:ASN:ND2	2.26	0.67
27:Y1:306:GLU:N	27:Y1:324:ASP:OD2	2.27	0.67
27:Y2:102:CYS:SG	27:Y2:103:THR:N	2.67	0.67
27:Y3:306:GLU:N	27:Y3:324:ASP:OD2	2.27	0.67
27:Y4:161:PRO:HB2	27:Y4:164:HIS:CD2	2.30	0.67
28:Z2:525:LEU:C	30:b2:208:ASN:OD1	2.38	0.67
28:Z3:557:CYS:HB2	30:b3:210:ARG:NH1	1.97	0.67
2:A2:1125:LEU:CD1	3:A5:134:VAL:N	2.58	0.67
2:A4:827:ILE:CD1	2:A4:859:GLN:CB	2.61	0.67
2:A4:975:GLU:O	6:D3:502:LEU:N	2.28	0.67
2:A4:978:ASP:O	6:D3:475:ALA:CA	2.43	0.67
2:A4:1120:ASP:OD2	2:A4:1241:ARG:NH2	2.28	0.67
11:I1:797:LEU:CG	17:O1:245:GLU:HG3	2.25	0.67
11:I1:945:LEU:CD2	17:O1:258:GLU:C	2.51	0.67
11:I1:952:LEU:CA	16:N1:403:VAL:HG11	2.21	0.67
11:I1:981:VAL:CA	20:R1:147:LEU:HD21	2.25	0.67
11:I1:983:LEU:HD11	15:M1:604:ASN:CB	2.24	0.67
11:I1:1611:PHE:C	11:I2:1673:VAL:HA	2.17	0.67
11:I2:884:LEU:HD12	16:N3:400:LEU:CD2	2.25	0.67
11:I2:955:LYS:HB2	16:N3:400:LEU:CD2	2.17	0.67
11:I2:962:ILE:CD1	15:M3:596:ILE:CG2	2.65	0.67
11:I2:993:SER:OG	16:N3:430:ARG:NH1	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1046:HIS:HB2	17:O3:280:GLU:HB3	1.77	0.67
11:I2:1046:HIS:CA	17:O3:280:GLU:HB3	2.25	0.67
11:I4:774:LYS:HB3	29:a4:40[A]:GLU:OE1	1.95	0.67
17:O3:102:LYS:HB3	18:P3:322:LYS:CD	2.25	0.67
27:Y1:161:PRO:HB2	27:Y1:164:HIS:CD2	2.30	0.67
28:Z1:523:ASP:CB	30:b1:238:ASN:CA	1.89	0.67
28:Z2:411:LEU:HG	30:b2:251:ILE:CG1	2.25	0.67
1:A1:1197:ALA:CA	2:A2:728:LYS:HZ2	2.06	0.67
1:A1:1204:TRP:NE1	2:A2:645:PHE:CZ	2.48	0.67
1:A3:1056:PHE:CZ	6:D3:807:THR:C	2.72	0.67
2:A4:868:GLN:OE1	6:D3:570:VAL:CG1	2.43	0.67
2:A4:1126:VAL:CA	3:A6:139:ASN:H	1.96	0.67
3:A5:1406:GLY:N	28:Z2:918:PHE:CA	2.36	0.67
3:A6:1363:ASP:C	28:Z4:868:GLN:O	2.38	0.67
3:A6:1401:VAL:C	28:Z4:919:PHE:HA	2.18	0.67
11:I1:1020:ALA:C	16:N1:409:ALA:HB3	2.20	0.67
11:I2:981:VAL:HB	20:R3:147:LEU:HG	1.74	0.67
23:U3:13:THR:O	23:U3:17:ASP:N	2.24	0.67
27:Y3:161:PRO:HB2	27:Y3:164:HIS:CD2	2.30	0.67
27:Y4:102:CYS:SG	27:Y4:103:THR:N	2.67	0.67
28:Z1:521:SER:OG	30:b1:238:ASN:CA	2.43	0.67
2:A2:227:SER:CA	6:D1:712:ASP:N	2.57	0.66
2:A2:975:GLU:OE2	6:D1:501:LEU:HG	1.93	0.66
2:A2:983:LEU:HB2	6:D1:528:PHE:CZ	2.29	0.66
2:A2:1159:ASP:HB3	3:A5:175:GLU:HG3	1.76	0.66
2:A4:826:ASN:ND2	6:D3:633:LYS:HB3	2.09	0.66
2:A4:871:ASN:N	6:D3:566:PHE:O	2.27	0.66
2:A4:907:SER:O	6:D3:552:TYR:CE1	2.47	0.66
2:A4:1053:ARG:O	6:D4:762:ARG:CG	2.37	0.66
3:A5:997:ASP:N	11:I5:61:LYS:HB2	2.11	0.66
3:A5:999:SER:HB3	11:I5:64:LYS:HE3	1.76	0.66
3:A5:1027:HIS:ND1	11:I5:66:LEU:N	2.36	0.66
3:A5:1387:ILE:HD11	28:Z2:830:LEU:CB	2.25	0.66
3:A6:1312:ARG:H	28:Z4:830:LEU:CB	2.07	0.66
3:A6:1319:ILE:CG2	28:Z4:874:ASN:CA	2.61	0.66
3:A6:1410:ALA:C	26:X4:742:ALA:HA	2.19	0.66
8:F1:1137:GLN:HB2	17:O2:244:GLU:C	2.15	0.66
8:F2:1808:VAL:O	8:F2:1833:ARG:NH1	2.28	0.66
9:G1:263:MET:SD	17:O2:260:LEU:CD2	2.83	0.66
11:I1:843:GLU:CB	15:M1:587:GLU:CD	2.64	0.66
11:I1:935:GLY:N	15:M1:605:THR:CB	2.50	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:945:LEU:C	17:O1:256:TYR:CD2	2.73	0.66
11:I1:966:TRP:HA	20:R1:154:ALA:HB2	1.76	0.66
11:I1:1739:GLU:C	11:I2:1604:ALA:CA	2.58	0.66
11:I2:840:LEU:CD2	17:O3:247:TRP:CB	2.68	0.66
11:I2:898:VAL:HG23	17:O3:237:PRO:N	2.02	0.66
11:I2:920:PHE:C	15:M3:595:MET:HB3	2.20	0.66
11:I2:952:LEU:HD11	15:M3:599:ILE:HG12	1.77	0.66
11:I2:988:GLU:OE1	15:M3:612:PRO:CA	2.31	0.66
11:I2:1021:ILE:CG1	16:N3:410:MET:CG	2.73	0.66
11:I2:1046:HIS:O	17:O3:284:LYS:N	2.28	0.66
11:I3:1277:LEU:HD13	26:X1:518:ASP:C	2.10	0.66
17:O4:111:TYR:CD1	18:P4:325:ILE:CD1	2.63	0.66
18:P1:280:THR:H	18:P4:322:LYS:CD	1.90	0.66
26:X1:163:LYS:HB2	26:X1:172:PHE:CD1	2.29	0.66
28:Z3:523:ASP:OD1	30:b3:238:ASN:OD1	2.12	0.66
28:Z4:554:PHE:CE2	30:b4:233:TRP:C	2.73	0.66
1:A1:1200:ARG:NH2	2:A2:642:ARG:HH22	1.93	0.66
1:A1:1220:PRO:O	2:A2:646:ILE:CA	2.42	0.66
2:A2:968:SER:OG	6:D1:200:HIS:N	2.20	0.66
2:A2:1138:GLU:HB3	3:A5:167:TRP:HH2	1.60	0.66
2:A4:982:THR:CG2	6:D3:494:LEU:C	2.67	0.66
3:A5:1054:SER:O	11:I5:37:GLU:HG2	1.95	0.66
3:A6:1323:VAL:HG12	28:Z4:912:ASP:CA	2.13	0.66
3:A6:1367:THR:CG2	28:Z4:852:SER:CB	2.73	0.66
11:I2:935:GLY:C	15:M3:609:GLY:HA3	2.20	0.66
11:I2:945:LEU:CA	17:O3:260:LEU:H	2.08	0.66
11:I2:977:ASN:ND2	15:M3:621:ARG:C	2.53	0.66
11:I2:983:LEU:CD1	15:M3:621:ARG:NH2	2.58	0.66
11:I2:1106:LYS:HB3	16:N3:440:GLU:OE2	1.88	0.66
11:I3:1277:LEU:CD2	26:X1:519:ILE:N	2.58	0.66
27:Y2:161:PRO:HB2	27:Y2:164:HIS:CD2	2.30	0.66
28:Z1:443:LEU:CD2	30:b1:250:GLY:HA2	2.24	0.66
2:A2:825:ARG:HH22	6:D1:679:ILE:HD11	1.61	0.66
2:A2:986:THR:CG2	6:D1:504:LYS:CE	2.73	0.66
2:A4:1160:GLN:NE2	3:A6:166:LEU:H	1.92	0.66
11:I1:843:GLU:HB3	15:M1:587:GLU:OE2	1.87	0.66
11:I1:881:ILE:CG1	17:O1:249:ARG:C	2.64	0.66
11:I1:928:LEU:HD11	20:R1:155:GLU:CB	2.26	0.66
11:I1:986:ASN:O	15:M1:611:LYS:CA	2.40	0.66
11:I1:1066:LEU:CB	16:N1:430:ARG:CG	2.73	0.66
11:I2:790:LEU:CD2	17:O3:251:ILE:HD13	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:840:LEU:CB	17:O3:247:TRP:HD1	2.05	0.66
11:I2:896:PRO:O	17:O3:232:LYS:HB3	1.94	0.66
11:I2:994:ALA:HB2	17:O3:272:SER:N	2.03	0.66
11:I2:1037:THR:HG21	20:R3:173:LEU:HD22	1.76	0.66
11:I2:1607:GLN:CB	12:J1:298:PHE:CE1	2.73	0.66
11:I3:1584:LEU:HD21	12:J3:275:PHE:CD1	2.30	0.66
27:Y3:41:ASP:HA	29:a3:230:GLN:OE1	1.94	0.66
28:Z2:401:THR:CA	30:b2:253:SER:N	2.55	0.66
28:Z4:335:VAL:HG13	28:Z4:352:ILE:HB	1.77	0.66
28:Z4:443:LEU:CD2	30:b4:250:GLY:HA2	2.24	0.66
1:A1:870:HIS:CE1	6:D3:279:HIS:HE1	2.13	0.66
1:A1:1222:ALA:HB1	2:A2:615:LEU:HD11	1.77	0.66
1:A3:1021:LEU:CD1	6:D3:819:ASN:HB2	2.26	0.66
1:A3:1056:PHE:CE2	6:D3:806:ASP:O	2.41	0.66
2:A4:781:ARG:NH1	6:D3:674:TYR:HE1	1.92	0.66
2:A4:981:PRO:HD3	6:D3:473:GLU:OE2	1.95	0.66
2:A4:1151:THR:CA	5:C4:733:LEU:CA	2.60	0.66
3:A5:1381:ALA:HA	28:Z2:810:ASP:HA	1.75	0.66
3:A5:1395:LYS:CA	28:Z2:870:ILE:O	2.43	0.66
3:A5:1406:GLY:O	28:Z2:921:THR:CB	2.44	0.66
6:D3:743:HIS:NE2	11:I2:1528:ARG:CG	2.59	0.66
8:F1:1258:MET:O	17:O2:259:ASP:OD1	2.13	0.66
9:G1:263:MET:SD	16:N2:407:ALA:HB1	2.36	0.66
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HB2	2.10	0.66
11:I2:958:THR:CA	16:N3:399:HIS:CD2	2.77	0.66
11:I2:1017:VAL:CG1	16:N3:410:MET:HG3	2.25	0.66
11:I2:1040:HIS:HD1	15:M3:623:LEU:HD13	1.08	0.66
11:I3:1278:ALA:HB3	26:X1:520:GLU:H	1.55	0.66
11:I3:1421:ARG:NH2	11:I3:1482:ASP:OD1	2.29	0.66
28:Z2:335:VAL:HG13	28:Z2:352:ILE:HB	1.77	0.66
28:Z2:535:ILE:CD1	30:b2:182:PRO:HG3	2.26	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:OD1	2.38	0.66
28:Z4:527:SER:CB	30:b4:204:GLU:HG3	2.23	0.66
2:A2:227:SER:HB3	6:D1:711:PHE:CB	2.22	0.66
2:A2:825:ARG:CD	6:D1:633:LYS:HZ2	2.02	0.66
2:A2:1160:GLN:CG	3:A5:166:LEU:O	2.44	0.66
2:A4:868:GLN:OE1	6:D3:571:SER:N	2.27	0.66
2:A4:1158:ALA:HB2	3:A6:133:LYS:CE	2.26	0.66
3:A5:232:LEU:HD12	5:C2:740:ARG:N	2.11	0.66
3:A5:1395:LYS:CB	28:Z2:870:ILE:O	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1327:VAL:N	28:Z4:910:GLN:O	2.28	0.66
8:F1:1329:LYS:O	8:F1:1364:ASN:ND2	2.29	0.66
9:G1:255:LEU:HD13	17:O2:258:GLU:H	1.59	0.66
11:I2:357:ASP:OD1	11:I2:360:ARG:NH2	2.28	0.66
11:I2:884:LEU:HD13	16:N3:400:LEU:HG	1.78	0.66
11:I2:990:GLU:O	17:O3:271:GLU:CB	2.44	0.66
11:I2:1036:PRO:HG3	17:O3:287:LEU:HG	1.78	0.66
11:I2:1039:ALA:HB3	20:R3:170:LEU:CA	2.26	0.66
11:I2:1109:LEU:N	17:O3:290:TYR:OH	2.29	0.66
11:I3:1267:LEU:O	26:X1:529:TRP:CG	2.48	0.66
11:I4:357:ASP:OD1	11:I4:360:ARG:NH2	2.28	0.66
11:I4:1270:LYS:CD	26:X3:530:ARG:CG	2.71	0.66
11:I4:1279:THR:CB	26:X3:524:SER:N	2.59	0.66
11:I5:1421:ARG:NH2	11:I5:1482:ASP:OD1	2.29	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
28:Z1:555:LYS:CG	30:b1:213:ASP:N	2.59	0.66
28:Z4:555:LYS:HD2	30:b4:233:TRP:CE3	2.31	0.66
1:A1:1220:PRO:C	2:A2:646:ILE:N	2.53	0.66
1:A1:1221:ILE:HD11	2:A2:618:ALA:CB	2.24	0.66
2:A2:983:LEU:HD22	6:D1:497:PHE:HZ	1.60	0.66
2:A2:1135:ARG:C	3:A5:134:VAL:CG1	2.68	0.66
2:A4:879:LEU:HD13	6:D3:564:ASN:ND2	2.09	0.66
2:A4:965:LYS:HE3	6:D3:196:ILE:HA	1.76	0.66
2:A4:982:THR:HB	6:D3:494:LEU:HA	1.76	0.66
2:A4:1125:LEU:N	3:A6:136:GLU:CB	2.18	0.66
6:D1:622:PHE:CB	6:D1:645:LEU:HD21	2.25	0.66
8:F2:1088:GLU:CD	17:O4:247:TRP:O	2.39	0.66
9:G1:258:LYS:C	17:O2:252:VAL:HG12	2.21	0.66
11:I1:878:GLN:N	17:O1:252:VAL:CB	2.58	0.66
11:I1:890:TYR:HA	17:O1:238:ALA:CB	2.25	0.66
11:I1:1112:SER:N	16:N1:439:ARG:CB	2.56	0.66
11:I1:1421:ARG:NH2	11:I1:1482:ASP:OD1	2.29	0.66
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD11	1.76	0.66
11:I2:797:LEU:HD22	17:O3:245:GLU:CB	2.25	0.66
11:I2:955:LYS:CB	16:N3:400:LEU:HD23	2.17	0.66
11:I2:997:SER:HB2	17:O3:270:THR:HG21	1.78	0.66
17:O2:110:LEU:HD11	18:P2:321:ILE:HB	1.78	0.66
21:S2:1119:LEU:C	21:S2:1121:GLU:H	2.04	0.66
28:Z1:55:GLU:HB2	28:Z1:74:SER:HA	1.78	0.66
28:Z1:411:LEU:HG	30:b1:251:ILE:CG1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:525:LEU:C	30:b1:208:ASN:OD1	2.38	0.66
28:Z4:557:CYS:HB2	30:b4:210:ARG:NH1	1.97	0.66
1:A1:834:GLU:HB3	6:D3:302:PRO:CG	2.18	0.66
1:A1:874:VAL:CG1	6:D3:272:VAL:CB	2.71	0.66
2:A2:1120:ASP:OD2	2:A2:1241:ARG:NH2	2.28	0.66
3:A5:1011:TYR:OH	11:I5:54:LYS:CG	2.44	0.66
3:A6:1388:ALA:HA	28:Z4:865:LYS:N	2.10	0.66
11:I1:883:ALA:CB	17:O1:246:LEU:CA	2.26	0.66
11:I1:887:GLN:CA	17:O1:242:ARG:HB3	1.97	0.66
11:I1:913:ALA:N	15:M1:584:GLN:CG	2.57	0.66
11:I2:895:ARG:N	17:O3:239:GLN:HB2	2.11	0.66
11:I2:947:LEU:CD1	16:N3:407:ALA:O	2.44	0.66
11:I2:989:GLY:N	15:M3:614:ASP:CG	2.54	0.66
11:I2:1109:LEU:HD13	17:O3:290:TYR:CG	2.27	0.66
11:I3:1277:LEU:HD22	26:X1:518:ASP:C	2.20	0.66
11:I3:1278:ALA:CA	26:X1:520:GLU:HA	2.25	0.66
21:S2:251:MET:HG3	21:S2:272:LEU:HB2	1.78	0.66
30:b2:117:LYS:HG2	30:b2:122:ILE:HD13	1.78	0.66
30:b3:117:LYS:HG2	30:b3:122:ILE:HD13	1.78	0.66
1:A1:1301:ASP:OD2	1:A1:1361:ARG:NH1	2.29	0.66
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD13	1.77	0.66
2:A4:976:LEU:HD22	6:D3:245:ARG:NH1	2.06	0.66
3:A5:1316:VAL:HG21	28:Z2:833:ASP:CB	2.26	0.66
3:A6:1351:MSE:HB3	28:Z4:918:PHE:N	0.53	0.66
6:D4:622:PHE:CB	6:D4:645:LEU:HD21	2.25	0.66
11:I1:357:ASP:OD1	11:I1:360:ARG:NH2	2.28	0.66
11:I1:840:LEU:CD2	17:O1:244:GLU:HG2	2.25	0.66
11:I1:957:SER:HB2	20:R1:168:LEU:CB	2.26	0.66
11:I1:1024:PHE:HB2	16:N1:406:HIS:HB3	1.66	0.66
11:I2:900:ARG:HG3	17:O3:232:LYS:HZ2	1.60	0.66
11:I2:965:ALA:HB3	20:R3:165:SER:N	2.10	0.66
11:I2:990:GLU:C	15:M3:608:LYS:NZ	2.53	0.66
17:O3:147:ALA:CA	18:P3:328:PRO:HB2	2.26	0.66
24:V2:209:PRO:HB3	24:V2:532:LYS:HB2	1.78	0.66
27:Y1:41:ASP:HA	29:a1:230:GLN:OE1	1.94	0.66
28:Z3:527:SER:HA	30:b3:204:GLU:CG	1.88	0.66
28:Z3:555:LYS:HD2	30:b3:233:TRP:CE3	2.31	0.66
2:A2:980:ARG:HG3	6:D1:526:LEU:CB	2.26	0.66
2:A4:859:GLN:N	6:D3:606:LYS:HE2	2.10	0.66
2:A4:864:ARG:HH11	6:D3:607:PRO:HA	1.61	0.66
2:A4:908:LEU:CD2	6:D3:601:PHE:O	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1151:THR:HA	5:C4:733:LEU:HD13	1.70	0.66
3:A5:1378:GLY:C	28:Z2:812:LEU:CA	2.56	0.66
3:A6:189:VAL:HG11	5:C4:742:ASP:H	1.61	0.66
5:C3:732:LYS:HE2	11:I2:1228:GLU:HG3	1.77	0.66
11:I1:1046:HIS:CB	17:O1:283:ALA:HB3	2.21	0.66
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG11	2.21	0.66
11:I2:1037:THR:CB	15:M3:624:ASN:ND2	2.58	0.66
11:I2:1118:LEU:HD11	16:N3:432:TYR:CD2	2.31	0.66
11:I3:1270:LYS:CB	26:X1:529:TRP:N	2.38	0.66
11:I3:1433:THR:CG2	12:J3:270:ARG:HD3	2.26	0.66
11:I4:1275:SER:N	26:X3:525:ILE:CG2	2.57	0.66
11:I5:1433:THR:CG2	12:J5:270:ARG:HD3	2.26	0.66
21:S3:1119:LEU:C	21:S3:1121:GLU:H	2.04	0.66
28:Z1:527:SER:CB	30:b1:204:GLU:HG3	2.23	0.66
28:Z1:558:LEU:HA	30:b1:236:THR:H	1.59	0.66
28:Z2:531:LYS:O	30:b2:182:PRO:HB2	1.96	0.66
28:Z3:411:LEU:HG	30:b3:251:ILE:CG1	2.25	0.66
28:Z3:555:LYS:HB3	30:b3:213:ASP:N	2.11	0.66
28:Z4:521:SER:OG	30:b4:238:ASN:CA	2.43	0.66
28:Z4:525:LEU:C	30:b4:208:ASN:CG	2.60	0.66
1:A1:1222:ALA:CA	2:A2:615:LEU:CD1	2.74	0.66
1:A1:1224:PRO:CB	2:A2:731:ILE:HD13	2.25	0.66
1:A1:1402:ASP:N	2:A2:884:ARG:NH1	2.43	0.66
2:A2:780:GLU:CG	6:D1:677:GLN:O	2.43	0.66
2:A2:1054:SER:C	6:D2:762:ARG:CA	2.68	0.66
2:A2:1142:PHE:CZ	3:A5:567:VAL:CG2	2.78	0.66
1:A3:1226:LEU:N	2:A4:725:GLU:HA	2.07	0.66
2:A4:878:LEU:CA	6:D3:567:LEU:HD12	2.26	0.66
2:A4:1155:ASN:HB3	3:A6:177:ILE:CG1	2.26	0.66
3:A5:773:PHE:HZ	3:A5:818:LEU:HD12	1.61	0.66
3:A5:1098:ARG:HD3	11:I5:29:GLN:CG	2.26	0.66
3:A6:158:ALA:O	5:C4:743:LEU:CD1	2.44	0.66
3:A6:165:PHE:CE2	5:C4:743:LEU:HD22	2.02	0.66
3:A6:222:ALA:HB2	5:C4:739:MET:CG	2.25	0.66
3:A6:1398:LYS:HD3	28:Z4:889:LEU:H	1.60	0.66
11:I1:924:ILE:C	15:M1:596:ILE:HB	2.21	0.66
11:I1:927:HIS:CD2	15:M1:594:LYS:C	2.71	0.66
11:I1:950:LEU:CA	16:N1:403:VAL:HG13	2.25	0.66
11:I1:984:GLU:HB2	15:M1:618:GLN:HE21	1.59	0.66
11:I1:1017:VAL:CG1	16:N1:410:MET:CB	2.43	0.66
11:I1:1038:ILE:HD13	15:M1:620:VAL:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1108:PRO:HG3	16:N1:443:GLU:C	2.21	0.66
11:I1:1109:LEU:HB3	16:N1:441:PHE:H	1.61	0.66
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CG	2.09	0.66
11:I1:1611:PHE:CE1	11:I2:1669:ARG:O	2.48	0.66
11:I1:1672:VAL:HG22	11:I2:1611:PHE:CB	2.25	0.66
11:I2:884:LEU:HD13	16:N3:400:LEU:CD1	2.13	0.66
11:I2:979:ALA:O	15:M3:621:ARG:NH1	1.92	0.66
11:I2:1031:ALA:C	20:R3:173:LEU:CA	2.62	0.66
11:I2:1048:GLU:HB3	17:O3:284:LYS:CA	2.24	0.66
11:I2:1105:TRP:CE3	16:N3:432:TYR:OH	2.48	0.66
11:I2:1421:ARG:NH2	11:I2:1482:ASP:OD1	2.29	0.66
28:Z1:438:GLU:CD	30:b1:314:PRO:HG2	2.21	0.66
28:Z1:521:SER:C	30:b1:238:ASN:CB	2.62	0.66
28:Z3:438:GLU:HB2	30:b3:333:HIS:HE1	1.61	0.66
28:Z3:443:LEU:CD2	30:b3:250:GLY:HA2	2.24	0.66
28:Z3:531:LYS:O	30:b3:182:PRO:HB2	1.96	0.66
30:b3:21:TRP:CD1	30:b3:364:CYS:HG	2.14	0.66
30:b4:53:SER:OG	30:b4:54:THR:N	2.29	0.66
2:A2:982:THR:CB	6:D1:494:LEU:O	2.42	0.65
1:A3:835:THR:HG22	6:D1:302:PRO:CG	2.14	0.65
1:A3:1220:PRO:CB	2:A4:646:ILE:HG23	2.21	0.65
2:A4:1129:PRO:HA	3:A6:142:GLU:CG	1.98	0.65
3:A5:150:PHE:CE2	5:C2:742:ASP:CB	2.74	0.65
3:A5:150:PHE:CD2	5:C2:742:ASP:N	2.64	0.65
3:A5:1395:LYS:CE	28:Z2:872:TYR:N	2.59	0.65
3:A6:177:ILE:HG12	5:C4:740:ARG:NH1	2.01	0.65
3:A6:1151:THR:OG1	5:C6:734:VAL:N	2.29	0.65
3:A6:1316:VAL:HG13	28:Z4:871:HIS:CA	2.18	0.65
3:A6:1405:LEU:H	28:Z4:919:PHE:C	2.04	0.65
8:F1:1264:ARG:HH22	17:O2:264:ILE:CD1	2.09	0.65
9:G1:263:MET:HB3	17:O2:260:LEU:CD2	2.26	0.65
11:I1:1026:TYR:CD1	20:R1:175:GLN:CD	2.73	0.65
11:I1:1032:THR:O	15:M1:627:LEU:HG	1.96	0.65
11:I1:1669:ARG:CZ	11:I2:1605:LEU:HB2	2.26	0.65
11:I2:935:GLY:HA2	15:M3:606:LEU:CA	2.05	0.65
11:I2:950:LEU:HD12	16:N3:407:ALA:HA	1.78	0.65
11:I2:1114:VAL:H	16:N3:435:ALA:CB	2.08	0.65
11:I5:1584:LEU:HD21	12:J5:275:PHE:CD1	2.30	0.65
17:O2:111:TYR:N	18:P2:325:ILE:CG1	2.57	0.65
27:Y1:220:TRP:HA	27:Y1:231:ILE:HG22	1.76	0.65
27:Y3:221:ALA:HB2	27:Y3:312:TRP:CE2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z2:525:LEU:C	30:b2:208:ASN:CG	2.60	0.65
28:Z3:535:ILE:CD1	30:b3:182:PRO:HG3	2.25	0.65
28:Z4:438:GLU:CD	30:b4:314:PRO:HG2	2.21	0.65
1:A1:1221:ILE:HG13	2:A2:723:PHE:CZ	2.31	0.65
2:A2:1132:PRO:O	3:A5:138:LEU:HD21	1.96	0.65
1:A3:1054:SER:CB	6:D3:809:ALA:HB1	2.26	0.65
2:A4:878:LEU:HB2	6:D3:567:LEU:CG	2.23	0.65
2:A4:910:TYR:HD1	6:D3:555:ARG:O	1.78	0.65
2:A4:973:GLU:OE1	6:D3:192:TYR:CD2	2.49	0.65
2:A4:975:GLU:O	6:D3:501:LEU:CA	2.44	0.65
2:A4:1146:PRO:HD2	3:A6:129:ASN:HD22	1.59	0.65
2:A4:1155:ASN:HD21	5:C4:735:ILE:CA	2.02	0.65
3:A5:994:VAL:N	11:I5:57:GLU:HG3	2.11	0.65
3:A5:1093:THR:OG1	11:I5:37:GLU:CG	2.41	0.65
3:A5:1313:LYS:HB2	28:Z2:830:LEU:CA	2.26	0.65
3:A5:1394:VAL:O	28:Z2:874:ASN:CB	2.22	0.65
3:A6:166:LEU:HD13	5:C4:740:ARG:HB2	1.78	0.65
6:D7:537:ARG:HB3	11:I3:43:LYS:HZ2	1.60	0.65
11:I1:877:ILE:HG13	17:O1:251:ILE:O	1.94	0.65
11:I1:924:ILE:CD1	15:M1:595:MET:HB3	1.97	0.65
11:I1:967:SER:OG	15:M1:628:ALA:CB	2.44	0.65
11:I1:1029:LEU:CD1	16:N1:433:GLU:OE1	2.41	0.65
11:I1:1109:LEU:CG	16:N1:441:PHE:CB	2.43	0.65
11:I1:1110:SER:HB3	16:N1:436:ALA:N	2.09	0.65
11:I1:1607:GLN:HB2	12:J2:298:PHE:CE1	2.30	0.65
11:I2:846:ILE:HG23	15:M3:591:ASP:OD1	1.96	0.65
11:I2:965:ALA:N	20:R3:165:SER:OG	2.29	0.65
11:I2:1039:ALA:CB	20:R3:170:LEU:HD12	2.18	0.65
11:I3:270:TRP:NE1	11:I3:272:LYS:O	2.30	0.65
17:O4:110:LEU:CB	18:P4:321:ILE:CB	2.52	0.65
17:O4:111:TYR:OH	18:P4:321:ILE:HD13	1.96	0.65
21:S1:1119:LEU:C	21:S1:1121:GLU:H	2.04	0.65
24:V2:152:ALA:HB1	24:V2:160:LEU:HD11	1.78	0.65
26:X2:119:GLY:O	26:X2:122:ARG:HG2	1.97	0.65
27:Y4:41:ASP:HA	29:a4:230:GLN:OE1	1.94	0.65
28:Z1:335:VAL:HG13	28:Z1:352:ILE:HB	1.77	0.65
28:Z1:531:LYS:HZ3	30:b1:166:LEU:HB2	1.60	0.65
28:Z2:400:LYS:O	30:b2:252:ALA:HB1	1.94	0.65
28:Z2:438:GLU:CD	30:b2:314:PRO:HG2	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:411:LEU:HD23	30:b4:251:ILE:HG21	1.74	0.65
28:Z4:555:LYS:HG2	30:b4:213:ASP:N	2.05	0.65
30:b1:110:THR:HG22	30:b1:128:GLY:HA3	1.79	0.65
2:A2:1132:PRO:O	3:A5:138:LEU:CD2	2.44	0.65
1:A3:1301:ASP:OD2	1:A3:1361:ARG:NH1	2.29	0.65
2:A4:976:LEU:CG	6:D3:472:PHE:HD2	2.04	0.65
3:A5:993:ASN:C	11:I5:57:GLU:CB	2.63	0.65
3:A5:1403:MSE:HB3	28:Z2:920:SER:N	2.11	0.65
3:A6:157:TRP:CZ2	5:C4:747:PRO:HB3	2.30	0.65
11:I1:837:MET:SD	17:O1:242:ARG:C	2.60	0.65
11:I1:841:PHE:CG	17:O1:243:LEU:HD13	2.29	0.65
11:I1:873:ILE:HG22	17:O1:255:GLY:CA	2.26	0.65
11:I1:1107:SER:O	16:N1:439:ARG:HG3	1.95	0.65
11:I2:881:ILE:HG22	17:O3:249:ARG:CZ	2.26	0.65
11:I2:890:TYR:HB2	17:O3:242:ARG:HG3	1.78	0.65
11:I2:1020:ALA:CA	16:N3:410:MET:N	2.39	0.65
11:I2:1032:THR:C	20:R3:173:LEU:HG	2.20	0.65
11:I2:1433:THR:CG2	12:J2:270:ARG:HD3	2.26	0.65
11:I3:844:LYS:NZ	29:a2:351:LEU:HD11	2.12	0.65
21:S4:313:ASN:O	21:S4:317:LYS:HB2	1.96	0.65
27:Y2:313:ASN:HB2	27:Y2:318:ILE:H	1.61	0.65
28:Z2:521:SER:OG	30:b2:238:ASN:CA	2.43	0.65
28:Z3:554:PHE:CE2	30:b3:233:TRP:C	2.73	0.65
28:Z4:535:ILE:CD1	30:b4:182:PRO:HG3	2.26	0.65
1:A1:1087:GLY:C	6:D1:797:GLY:O	2.39	0.65
2:A2:782:VAL:N	6:D1:677:GLN:CA	2.57	0.65
2:A2:980:ARG:NH2	6:D1:503:LEU:HD12	2.12	0.65
2:A2:1164:TYR:CZ	4:B5:342:ARG:HB3	2.31	0.65
2:A4:986:THR:OG1	6:D3:504:LYS:HD3	1.94	0.65
2:A4:1155:ASN:OD1	5:C4:734:VAL:O	2.15	0.65
3:A5:231:SER:N	5:C2:736:ASN:OD1	2.29	0.65
3:A6:163:SER:C	5:C4:744:PHE:CG	2.70	0.65
3:A6:175:GLU:CB	5:C4:733:LEU:CD1	2.72	0.65
3:A6:1355:VAL:C	28:Z4:877:ILE:HA	2.20	0.65
6:D3:622:PHE:CB	6:D3:645:LEU:HD21	2.25	0.65
11:I1:895:ARG:HG2	17:O1:232:LYS:C	2.21	0.65
11:I1:918:SER:HB2	16:N1:385:MET:HG2	1.78	0.65
11:I1:940:LEU:CA	17:O1:259:ASP:O	2.44	0.65
11:I1:946:THR:CG2	17:O1:260:LEU:C	2.39	0.65
11:I1:957:SER:C	20:R1:168:LEU:HG	2.21	0.65
11:I1:965:ALA:N	20:R1:165:SER:CB	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1052:LEU:CD1	17:O1:287:LEU:CD1	2.62	0.65
11:I2:938:CYS:C	17:O3:261:LYS:HA	2.01	0.65
11:I2:978:LYS:HZ1	20:R3:154:ALA:C	1.97	0.65
11:I2:1067:PHE:CD1	16:N3:430:ARG:CA	2.80	0.65
11:I3:1267:LEU:HD11	26:X1:529:TRP:CZ3	2.13	0.65
26:X1:148:MET:HE1	26:X1:182:LEU:HD22	1.78	0.65
27:Y2:221:ALA:HB2	27:Y2:312:TRP:CE2	2.31	0.65
28:Z2:524:VAL:CG2	30:b2:236:THR:HG22	2.19	0.65
28:Z4:523:ASP:OD1	30:b4:238:ASN:OD1	2.13	0.65
28:Z4:531:LYS:O	30:b4:182:PRO:HB2	1.96	0.65
28:Z4:558:LEU:CA	30:b4:236:THR:N	2.29	0.65
30:b1:117:LYS:HG2	30:b1:122:ILE:HD13	1.78	0.65
1:A1:1225:PRO:C	2:A2:728:LYS:HB3	2.21	0.65
2:A2:873:PRO:CA	6:D1:563:GLU:HB3	2.26	0.65
2:A2:874:VAL:CB	6:D1:611:LYS:HG2	2.25	0.65
2:A2:909:LYS:HA	6:D1:552:TYR:OH	1.96	0.65
2:A2:1148:ARG:CA	3:A5:172:PRO:HB2	2.26	0.65
1:A3:1017:THR:C	6:D3:819:ASN:HB3	2.21	0.65
2:A4:1131:ILE:HB	3:A6:137:HIS:O	1.96	0.65
2:A4:1135:ARG:CZ	3:A6:167:TRP:CZ3	2.61	0.65
3:A5:1359:LEU:HB2	28:Z2:877:ILE:C	2.19	0.65
3:A5:1374:ALA:H	28:Z2:824:PHE:HA	1.61	0.65
3:A6:180:GLU:CB	5:C4:744:PHE:CZ	2.76	0.65
5:C1:732:LYS:CE	11:I1:1228:GLU:CB	2.73	0.65
9:G2:258:LYS:HD3	17:O4:259:ASP:OD2	1.97	0.65
11:I1:917:TYR:O	15:M1:588:MET:HG2	1.96	0.65
11:I1:919:ALA:CB	16:N1:389:PHE:C	2.16	0.65
11:I1:952:LEU:CB	16:N1:400:LEU:CD2	2.67	0.65
11:I1:964:SER:N	20:R1:165:SER:CB	2.60	0.65
11:I1:967:SER:HB2	15:M1:625:GLY:HA2	0.65	0.65
11:I1:1110:SER:HB3	16:N1:434:LEU:C	2.22	0.65
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CD1	2.42	0.65
11:I2:951:LYS:CE	16:N3:404:GLU:CG	2.71	0.65
11:I2:994:ALA:HB3	17:O3:268:GLY:C	2.22	0.65
11:I2:1067:PHE:HD1	16:N3:430:ARG:CA	2.08	0.65
21:S4:251:MET:HG3	21:S4:272:LEU:HB2	1.78	0.65
23:U2:242:LEU:HD22	24:V2:305:VAL:HG22	1.78	0.65
26:X1:119:GLY:O	26:X1:122:ARG:HG2	1.97	0.65
26:X4:119:GLY:O	26:X4:122:ARG:HG2	1.97	0.65
27:Y1:313:ASN:HB2	27:Y1:318:ILE:H	1.61	0.65
28:Z2:555:LYS:HB3	30:b2:213:ASP:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:438:GLU:CD	30:b3:314:PRO:HG2	2.22	0.65
28:Z3:523:ASP:CB	30:b3:238:ASN:CA	1.89	0.65
1:A1:773:PHE:HZ	1:A1:818:LEU:HD12	1.62	0.65
2:A2:83:GLN:NE2	2:A2:87:GLN:OE1	2.30	0.65
2:A2:779:ASP:N	6:D1:678:GLY:CA	2.55	0.65
1:A3:1198:GLU:C	2:A4:729:SER:CA	2.65	0.65
1:A3:1230:TYR:CD2	2:A4:726:ALA:O	2.50	0.65
2:A4:868:GLN:HG2	6:D3:608:ILE:HD13	0.65	0.65
3:A5:1151:THR:OG1	5:C5:733:LEU:HA	1.97	0.65
3:A5:1387:ILE:CD1	28:Z2:830:LEU:CB	2.74	0.65
3:A6:1361:ARG:HH12	28:Z4:879:PHE:CA	2.10	0.65
3:A6:1393:THR:HA	28:Z4:905:LEU:CA	2.26	0.65
3:A6:1395:LYS:HG2	28:Z4:889:LEU:CB	2.25	0.65
11:I1:923:GLY:CA	15:M1:592:LEU:H	1.97	0.65
11:I1:923:GLY:CA	15:M1:591:ASP:N	2.60	0.65
11:I1:936:LYS:HG2	15:M1:609:GLY:HA3	1.78	0.65
11:I1:1051:LYS:HA	17:O1:286:ILE:HG22	1.77	0.65
11:I1:1056:PRO:CD	17:O1:278:GLU:HG2	2.27	0.65
11:I1:1433:THR:CG2	12:J1:270:ARG:HD3	2.26	0.65
11:I1:1667:GLN:CD	11:I2:1665:LEU:CG	2.70	0.65
11:I2:897:GLU:CB	17:O3:236:ASP:OD2	2.39	0.65
11:I2:943:ALA:N	17:O3:263:GLN:OE1	2.30	0.65
11:I2:978:LYS:HZ3	20:R3:155:GLU:HB3	1.61	0.65
23:U3:20:LYS:O	23:U3:24:ILE:HG12	1.97	0.65
28:Z2:527:SER:HA	30:b2:204:GLU:OE1	1.50	0.65
28:Z3:400:LYS:O	30:b3:252:ALA:HB1	1.94	0.65
28:Z3:527:SER:CB	30:b3:204:GLU:HG3	2.23	0.65
28:Z3:555:LYS:CG	30:b3:213:ASP:N	2.59	0.65
28:Z4:555:LYS:HB3	30:b4:213:ASP:N	2.11	0.65
28:Z4:555:LYS:HD2	30:b4:233:TRP:CZ3	2.32	0.65
28:Z4:561:GLN:CB	30:b4:235:LEU:C	2.61	0.65
29:a1:252[B]:MET:CG	29:a1:253:PRO:HD2	2.26	0.65
30:b2:110:THR:HG22	30:b2:128:GLY:HA3	1.78	0.65
2:A2:970:PHE:C	6:D1:202:GLN:HG2	2.08	0.65
2:A2:980:ARG:HH22	6:D1:503:LEU:CD1	2.07	0.65
2:A2:1155:ASN:OD1	5:C2:734:VAL:O	2.15	0.65
3:A5:1151:THR:OG1	5:C5:734:VAL:N	2.29	0.65
3:A6:773:PHE:HZ	3:A6:818:LEU:HD12	1.62	0.65
3:A6:1392:ARG:CD	28:Z4:901:ARG:CB	2.74	0.65
3:A6:1412:MSE:CA	28:Z4:964:LEU:CB	2.65	0.65
4:B6:345:LYS:N	5:C4:737:LYS:HD3	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:HB	17:O1:247:TRP:CZ2	2.31	0.65
11:I1:873:ILE:HG21	17:O1:254:ARG:HG2	1.77	0.65
11:I1:895:ARG:HG3	17:O1:235:ASN:N	1.95	0.65
11:I1:1051:LYS:NZ	17:O1:289:ASP:N	2.44	0.65
11:I1:1735:PHE:CD2	11:I2:1606:GLU:O	2.29	0.65
11:I3:1271:GLU:O	26:X1:525:ILE:HB	1.96	0.65
11:I4:1433:THR:CG2	12:J4:270:ARG:HD3	2.26	0.65
11:I5:270:TRP:NE1	11:I5:272:LYS:O	2.30	0.65
21:S2:313:ASN:O	21:S2:317:LYS:HB2	1.96	0.65
28:Z1:63:SER:OG	28:Z1:112:GLU:OE1	2.15	0.65
28:Z1:555:LYS:HB3	30:b1:213:ASP:N	2.11	0.65
28:Z2:555:LYS:HD2	30:b2:233:TRP:CE3	2.31	0.65
28:Z4:63:SER:OG	28:Z4:112:GLU:OE1	2.15	0.65
28:Z4:558:LEU:N	30:b4:235:LEU:C	2.46	0.65
30:b3:110:THR:HG22	30:b3:128:GLY:HA3	1.78	0.65
30:b4:117:LYS:HG2	30:b4:122:ILE:HD13	1.78	0.65
1:A1:871:ASN:OD1	6:D3:279:HIS:N	2.30	0.65
2:A2:826:ASN:ND2	6:D1:633:LYS:O	2.30	0.65
2:A2:973:GLU:H	6:D1:192:TYR:HE2	1.45	0.65
2:A2:1131:ILE:CG1	3:A5:137:HIS:CD2	2.68	0.65
2:A2:1152:ASP:CB	3:A5:171:HIS:C	2.54	0.65
1:A3:773:PHE:HZ	1:A3:818:LEU:HD12	1.62	0.65
1:A3:1091:VAL:HG22	6:D3:808:ASN:CG	2.22	0.65
1:A3:1099:GLN:NE2	11:I2:1416:GLY:N	2.26	0.65
2:A4:861:GLN:CG	6:D3:606:LYS:NZ	2.60	0.65
2:A4:908:LEU:N	6:D3:552:TYR:OH	2.30	0.65
2:A4:1125:LEU:HB3	3:A6:137:HIS:CB	1.89	0.65
2:A4:1129:PRO:C	3:A6:142:GLU:CD	2.65	0.65
2:A4:1149:THR:CG2	3:A6:173:ASN:N	2.50	0.65
3:A6:1300:LEU:CD2	28:Z4:875:LEU:CB	2.75	0.65
11:I1:927:HIS:NE2	15:M1:594:LYS:HB2	2.09	0.65
11:I1:1540:LYS:NZ	11:I2:1739:GLU:CB	2.60	0.65
11:I2:885:GLU:N	16:N3:397:GLU:HG2	2.10	0.65
11:I3:1277:LEU:CD2	26:X1:513:PHE:CG	2.77	0.65
11:I4:1270:LYS:HD2	26:X3:530:ARG:CG	2.27	0.65
23:U2:13:THR:O	23:U2:17:ASP:N	2.24	0.65
23:U4:242:LEU:HD22	24:V4:305:VAL:HG22	1.78	0.65
24:V1:152:ALA:HB1	24:V1:160:LEU:HD11	1.78	0.65
28:Z2:438:GLU:HB2	30:b2:333:HIS:HE1	1.61	0.65
28:Z2:561:GLN:CD	30:b2:237:LEU:H	2.04	0.65
28:Z4:55:GLU:HB2	28:Z4:74:SER:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:870:HIS:HE2	6:D1:566:PHE:HD1	1.35	0.65
2:A2:968:SER:OG	6:D1:200:HIS:HB2	1.97	0.65
2:A2:970:PHE:HB3	6:D1:498:GLU:OE1	1.97	0.65
2:A4:83:GLN:NE2	2:A4:87:GLN:OE1	2.30	0.65
2:A4:984:ALA:CA	6:D3:498:GLU:OE2	2.18	0.65
3:A5:1029:ILE:C	11:I5:69:GLY:O	2.40	0.65
3:A6:1399:ARG:CZ	28:Z4:945:VAL:CA	2.75	0.65
6:D5:450:GLU:O	6:D5:454:THR:HG22	1.97	0.65
11:I1:921:GLU:CB	15:M1:596:ILE:CD1	2.60	0.65
11:I1:950:LEU:N	16:N1:407:ALA:HB2	2.11	0.65
11:I1:966:TRP:CH2	20:R1:166:LEU:HA	2.30	0.65
11:I1:1059:PRO:CD	17:O1:276:GLY:CA	2.33	0.65
11:I1:1101:LEU:CD2	16:N1:432:TYR:CE1	2.79	0.65
11:I2:890:TYR:CB	17:O3:242:ARG:H	2.05	0.65
11:I2:977:ASN:N	20:R3:149:ARG:N	2.45	0.65
11:I3:1276:GLN:NE2	26:X1:534:ILE:O	2.30	0.65
11:I4:270:TRP:NE1	11:I4:272:LYS:O	2.30	0.65
18:P2:320:GLN:CD	18:P3:278:ASN:CB	2.70	0.65
21:S3:313:ASN:O	21:S3:317:LYS:HB2	1.96	0.65
26:X3:148:MET:HE1	26:X3:182:LEU:HD22	1.78	0.65
28:Z1:535:ILE:CD1	30:b1:182:PRO:HG3	2.25	0.65
28:Z4:525:LEU:C	30:b4:208:ASN:OD1	2.38	0.65
28:Z4:561:GLN:CD	30:b4:237:LEU:H	2.04	0.65
2:A2:780:GLU:N	6:D1:678:GLY:C	2.55	0.65
2:A2:864:ARG:CD	6:D1:610:ASN:CG	2.70	0.65
2:A2:974:PRO:CA	6:D1:499:LEU:HG	2.27	0.65
1:A3:1088:ASN:HA	6:D3:808:ASN:HB3	1.78	0.65
2:A4:878:LEU:HD13	6:D3:607:PRO:HG2	1.78	0.65
2:A4:978:ASP:N	6:D3:492:VAL:HG12	2.12	0.65
2:A4:1139:ILE:O	3:A6:130:ILE:CG2	2.45	0.65
2:A4:1167:CYS:HB3	4:B6:342:ARG:NE	2.12	0.65
3:A6:147:LEU:O	5:C4:747:PRO:CB	2.45	0.65
3:A6:1364:GLN:CB	28:Z4:846:SER:CB	2.75	0.65
3:A6:1377:ARG:CD	28:Z4:815:PHE:CB	2.75	0.65
8:F1:1203:TRP:HA	17:O2:251:ILE:HG22	1.79	0.65
9:G1:255:LEU:HA	17:O2:257:ALA:HB3	1.78	0.65
11:I1:922:ASP:HB3	15:M1:589:GLY:CA	2.18	0.65
11:I1:978:LYS:CG	20:R1:153:GLN:H	2.09	0.65
11:I1:1035:GLN:O	15:M1:627:LEU:HB2	1.91	0.65
11:I1:1046:HIS:HB2	17:O1:280:GLU:C	2.22	0.65
11:I2:924:ILE:CG1	15:M3:597:LYS:N	2.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:936:LYS:HG2	15:M3:609:GLY:C	2.22	0.65
11:I2:1106:LYS:CB	16:N3:440:GLU:CG	2.75	0.65
11:I4:1421:ARG:NH2	11:I4:1482:ASP:OD1	2.29	0.65
21:S1:251:MET:HG3	21:S1:272:LEU:HB2	1.78	0.65
21:S3:251:MET:HG3	21:S3:272:LEU:HB2	1.78	0.65
23:U2:20:LYS:O	23:U2:24:ILE:HG12	1.97	0.65
28:Z2:55:GLU:HB2	28:Z2:74:SER:HA	1.78	0.65
28:Z3:55:GLU:HB2	28:Z3:74:SER:HA	1.78	0.65
28:Z3:555:LYS:HE2	30:b3:213:ASP:HB3	1.79	0.65
28:Z4:556:ASN:CG	30:b4:166:LEU:CD2	2.70	0.65
1:A1:1224:PRO:HD2	2:A2:731:ILE:CB	2.24	0.64
2:A2:869:ALA:CA	6:D1:583:ILE:HG21	2.27	0.64
2:A2:1151:THR:HA	5:C2:733:LEU:HD13	1.70	0.64
1:A3:1091:VAL:HG22	6:D3:808:ASN:ND2	2.11	0.64
1:A3:1091:VAL:HG22	6:D3:808:ASN:CB	2.27	0.64
2:A4:781:ARG:HD2	6:D3:633:LYS:CE	2.27	0.64
2:A4:982:THR:HG21	6:D3:495:VAL:CA	2.27	0.64
3:A5:996:ASN:HB3	11:I5:56:ARG:C	2.22	0.64
3:A5:1029:ILE:CG2	11:I5:70:GLU:C	2.58	0.64
6:D6:450:GLU:O	6:D6:454:THR:HG22	1.97	0.64
11:I1:1111:ALA:CB	16:N1:439:ARG:HH11	2.09	0.64
11:I2:270:TRP:NE1	11:I2:272:LYS:O	2.29	0.64
11:I2:833:PHE:CZ	17:O3:242:ARG:CA	2.81	0.64
11:I2:1021:ILE:HG13	16:N3:410:MET:HG3	1.79	0.64
11:I2:1039:ALA:CB	20:R3:170:LEU:N	2.59	0.64
11:I2:1048:GLU:CB	17:O3:284:LYS:C	2.69	0.64
11:I3:1271:GLU:CA	26:X1:529:TRP:HB2	2.27	0.64
22:T2:672:ILE:HG13	22:T2:711:VAL:HG22	1.80	0.64
24:V3:152:ALA:HB1	24:V3:160:LEU:HD11	1.78	0.64
27:Y1:221:ALA:HB2	27:Y1:312:TRP:CE2	2.31	0.64
28:Z2:555:LYS:CG	30:b2:213:ASP:N	2.59	0.64
28:Z3:555:LYS:HD2	30:b3:233:TRP:CZ3	2.32	0.64
30:b1:339:ILE:HB	30:b1:354:ILE:HB	1.79	0.64
30:b3:339:ILE:HB	30:b3:354:ILE:HB	1.79	0.64
1:A1:1197:ALA:C	2:A2:728:LYS:HZ2	2.05	0.64
2:A2:781:ARG:HE	6:D1:673:ARG:HB2	1.61	0.64
2:A2:974:PRO:HA	6:D1:499:LEU:HG	1.78	0.64
2:A2:981:PRO:CD	6:D1:504:LYS:N	2.54	0.64
2:A2:1136:LYS:CA	3:A5:134:VAL:CG1	2.45	0.64
2:A2:1154:PHE:CG	3:A5:175:GLU:OE1	2.50	0.64
1:A3:1223:GLU:CG	2:A4:734:LEU:HD13	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:879:LEU:N	6:D3:567:LEU:HD11	2.12	0.64
2:A4:978:ASP:N	6:D3:467:PHE:CE1	2.57	0.64
2:A4:1131:ILE:HG21	3:A6:137:HIS:C	2.22	0.64
2:A4:1167:CYS:SG	4:B6:342:ARG:CA	2.86	0.64
3:A5:1024:ASP:OD1	11:I5:96:GLU:O	2.16	0.64
3:A5:1026:PRO:CD	11:I5:102:ILE:HD13	2.26	0.64
3:A6:232:LEU:HB2	5:C4:739:MET:HG3	1.79	0.64
8:F1:50:LEU:O	8:F1:56:HIS:NE2	2.30	0.64
11:I1:270:TRP:NE1	11:I1:272:LYS:O	2.30	0.64
11:I1:873:ILE:CG2	17:O1:255:GLY:N	2.50	0.64
11:I1:883:ALA:CB	17:O1:243:LEU:CA	2.58	0.64
11:I1:927:HIS:O	15:M1:597:LYS:C	2.39	0.64
11:I1:1021:ILE:H	16:N1:409:ALA:CB	2.07	0.64
11:I1:1114:VAL:CA	16:N1:435:ALA:HB3	2.26	0.64
11:I1:1635:HIS:NE2	11:I2:1674:HIS:HA	2.12	0.64
11:I2:900:ARG:HG3	17:O3:232:LYS:HD3	1.77	0.64
11:I2:980:ILE:HA	15:M3:618:GLN:N	2.12	0.64
11:I2:1015:TYR:CB	16:N3:412:ASN:CG	2.69	0.64
11:I2:1037:THR:CG2	20:R3:170:LEU:H	2.10	0.64
11:I2:1041:GLN:O	17:O3:275:LEU:CD1	2.45	0.64
11:I4:1276:GLN:O	26:X3:522:MET:CG	2.39	0.64
25:W2:227:GLN:HA	25:W2:256:VAL:HG13	1.79	0.64
28:Z1:555:LYS:HD2	30:b1:233:TRP:CE3	2.31	0.64
28:Z2:527:SER:CB	30:b2:204:GLU:HG3	2.23	0.64
28:Z2:554:PHE:CE2	30:b2:233:TRP:C	2.73	0.64
28:Z4:438:GLU:HB2	30:b4:333:HIS:HE1	1.62	0.64
28:Z4:553:ILE:HD11	30:b4:182:PRO:HG2	1.79	0.64
1:A1:1226:LEU:H	2:A2:725:GLU:CD	2.04	0.64
2:A2:865:ALA:O	6:D1:608:ILE:CD1	2.45	0.64
2:A4:909:LYS:N	6:D3:552:TYR:CZ	2.66	0.64
2:A4:968:SER:OG	6:D3:202:GLN:N	2.28	0.64
2:A4:986:THR:CG2	6:D3:504:LYS:CE	2.74	0.64
2:A4:1125:LEU:O	3:A6:140:ALA:N	2.30	0.64
2:A4:1160:GLN:HG3	3:A6:165:PHE:HA	1.79	0.64
3:A5:1376:LEU:HD11	28:Z2:810:ASP:CB	2.27	0.64
3:A6:146:LYS:HE3	5:C4:747:PRO:C	2.15	0.64
9:G1:266:ASP:HB3	16:N2:412:ASN:C	2.23	0.64
11:I1:959:SER:HG	11:I1:960:SER:N	1.96	0.64
11:I2:978:LYS:C	15:M3:621:ARG:NH1	2.39	0.64
11:I2:1017:VAL:HG23	16:N3:411:GLN:HA	0.65	0.64
11:I2:1042:LEU:CD2	15:M3:608:LYS:HB2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1067:PHE:CD2	16:N3:431:VAL:HB	2.32	0.64
11:I3:1278:ALA:CB	26:X1:516:ASN:O	2.42	0.64
21:S4:1097:LYS:NZ	21:S4:1101:PHE:HE1	1.95	0.64
23:U3:242:LEU:HD22	24:V3:305:VAL:HG22	1.78	0.64
27:Y4:221:ALA:HB2	27:Y4:312:TRP:CE2	2.31	0.64
28:Z1:524:VAL:C	30:b1:236:THR:CG2	2.70	0.64
28:Z2:553:ILE:HD11	30:b2:182:PRO:HG2	1.79	0.64
28:Z2:555:LYS:HD2	30:b2:233:TRP:CZ3	2.32	0.64
1:A1:1200:ARG:HB3	2:A2:727:ASN:CA	2.27	0.64
2:A2:780:GLU:HB3	6:D1:677:GLN:CB	2.25	0.64
2:A2:976:LEU:CB	6:D1:496:LEU:HD23	1.82	0.64
2:A2:1125:LEU:HD13	3:A5:134:VAL:HG23	1.79	0.64
1:A3:1084:ARG:C	6:D3:797:GLY:HA3	2.23	0.64
2:A4:860:GLU:HG3	6:D3:606:LYS:CB	2.22	0.64
2:A4:982:THR:HG21	6:D3:495:VAL:N	2.13	0.64
2:A4:1133:GLU:CA	3:A6:145:THR:HG21	2.22	0.64
3:A5:1023:ILE:CG2	11:I5:95:LYS:HG2	1.73	0.64
3:A5:1395:LYS:CG	28:Z2:870:ILE:CA	2.76	0.64
3:A5:1411:ARG:HE	26:X2:744:MET:C	2.05	0.64
3:A6:1391:ARG:HG2	28:Z4:866:GLU:C	2.21	0.64
3:A6:1411:ARG:CD	28:Z4:968:ARG:CB	2.73	0.64
6:D4:450:GLU:O	6:D4:454:THR:HG22	1.97	0.64
8:F1:1261:TYR:CZ	17:O2:263:GLN:HB3	2.33	0.64
8:F2:50:LEU:O	8:F2:56:HIS:NE2	2.30	0.64
9:G1:257:THR:C	17:O2:253:LEU:N	2.52	0.64
11:I1:885:GLU:O	16:N1:397:GLU:OE2	2.14	0.64
11:I1:947:LEU:CG	17:O1:256:TYR:CZ	2.81	0.64
11:I1:1046:HIS:HD1	17:O1:284:LYS:N	1.70	0.64
11:I2:841:PHE:HA	15:M3:591:ASP:HB3	1.79	0.64
11:I2:978:LYS:HZ2	20:R3:154:ALA:C	1.97	0.64
11:I3:1277:LEU:HD12	26:X1:522:MET:CG	2.22	0.64
17:O4:106:HIS:O	18:P4:318:PRO:HG3	1.91	0.64
21:S1:950:HIS:ND1	21:S1:978:ALA:HB2	2.13	0.64
21:S4:316:LEU:HA	21:S4:319:ASN:HD22	1.62	0.64
21:S4:1119:LEU:C	21:S4:1121:GLU:H	2.04	0.64
23:U1:20:LYS:O	23:U1:24:ILE:HG12	1.97	0.64
24:V1:209:PRO:HB3	24:V1:532:LYS:HB2	1.78	0.64
25:W3:180:ASN:HA	25:W3:207:VAL:HG23	1.79	0.64
25:W3:227:GLN:HA	25:W3:256:VAL:HG13	1.80	0.64
28:Z1:531:LYS:O	30:b1:182:PRO:HB2	1.96	0.64
28:Z2:524:VAL:C	30:b2:236:THR:CG2	2.70	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:556:ASN:CG	30:b2:166:LEU:CD2	2.70	0.64
28:Z3:524:VAL:C	30:b3:236:THR:CG2	2.70	0.64
28:Z4:521:SER:C	30:b4:238:ASN:CB	2.62	0.64
2:A4:976:LEU:HG	6:D3:501:LEU:HB3	0.73	0.64
3:A5:231:SER:H	5:C2:738:ASP:HB2	1.63	0.64
3:A5:1406:GLY:HA2	28:Z2:921:THR:CB	2.21	0.64
3:A6:1151:THR:HG23	5:C6:734:VAL:O	1.97	0.64
3:A6:1355:VAL:CA	28:Z4:877:ILE:CA	2.59	0.64
3:A6:1367:THR:HG22	28:Z4:848:SER:C	2.19	0.64
6:D1:450:GLU:O	6:D1:454:THR:HG22	1.97	0.64
6:D2:450:GLU:O	6:D2:454:THR:HG22	1.97	0.64
11:I1:895:ARG:NH2	17:O1:233:THR:HG22	2.09	0.64
11:I1:950:LEU:CA	16:N1:403:VAL:HG12	2.26	0.64
11:I1:1033:PRO:HB3	20:R1:174:ARG:C	2.16	0.64
11:I1:1043:LEU:HD22	16:N1:430:ARG:CA	2.26	0.64
11:I2:797:LEU:HD22	17:O3:245:GLU:CA	2.28	0.64
11:I2:955:LYS:HG3	16:N3:403:VAL:HG23	1.80	0.64
11:I2:1109:LEU:CD2	17:O3:290:TYR:CD2	2.80	0.64
11:I2:1297:LEU:O	11:I2:1301:ASN:ND2	2.31	0.64
21:S1:313:ASN:O	21:S1:317:LYS:HB2	1.96	0.64
22:T3:672:ILE:HG13	22:T3:711:VAL:HG22	1.80	0.64
25:W4:180:ASN:HA	25:W4:207:VAL:HG23	1.79	0.64
26:X4:148:MET:HE1	26:X4:182:LEU:HD22	1.78	0.64
28:Z1:549:LYS:HB3	30:b1:182:PRO:HD3	1.80	0.64
28:Z1:554:PHE:CE2	30:b1:233:TRP:C	2.73	0.64
28:Z4:555:LYS:HE2	30:b4:213:ASP:HB3	1.79	0.64
30:b1:21:TRP:CD1	30:b1:364:CYS:HG	2.14	0.64
30:b4:55:GLY:H	30:b4:384:ARG:HH11	1.46	0.64
2:A2:876:ARG:HH12	6:D1:562:GLY:N	1.95	0.64
1:A3:1332:ARG:HE	6:D3:636:ASP:HB3	1.63	0.64
2:A4:970:PHE:HZ	6:D3:555:ARG:NH2	1.89	0.64
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD13	1.77	0.64
3:A5:177:ILE:O	5:C2:743:LEU:CG	2.44	0.64
3:A5:996:ASN:CB	11:I5:59:LEU:H	2.00	0.64
3:A5:1028:VAL:HG12	11:I5:68:ILE:HD13	1.79	0.64
3:A6:1151:THR:OG1	5:C6:733:LEU:HA	1.96	0.64
3:A6:1351:MSE:CA	28:Z4:918:PHE:CB	2.76	0.64
8:F1:1137:GLN:HB3	17:O2:244:GLU:O	1.94	0.64
8:F2:1329:LYS:O	8:F2:1364:ASN:ND2	2.29	0.64
11:I1:837:MET:CE	17:O1:239:GLN:O	2.45	0.64
11:I1:894:VAL:HG11	17:O1:238:ALA:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:967:SER:OG	15:M1:628:ALA:HB2	1.98	0.64
11:I1:1667:GLN:HB2	11:I2:1661:GLY:O	1.97	0.64
11:I2:882:LYS:HB2	17:O3:249:ARG:H	1.62	0.64
11:I2:886:LEU:CD1	17:O3:245:GLU:HB3	2.15	0.64
11:I2:902:GLN:OE1	17:O3:235:ASN:ND2	2.28	0.64
11:I2:1029:LEU:CB	20:R3:174:ARG:HG3	2.19	0.64
11:I2:1030:ARG:CA	20:R3:172:ASP:C	2.68	0.64
11:I2:1045:PHE:HE1	17:O3:279:ILE:HG21	1.61	0.64
11:I3:408:PRO:O	11:I3:409:SER:OG	2.16	0.64
11:I4:1274:HIS:CG	26:X3:525:ILE:C	2.71	0.64
11:I4:1297:LEU:O	11:I4:1301:ASN:ND2	2.31	0.64
11:I5:1281:GLU:CD	26:X2:516:ASN:ND2	2.54	0.64
22:T1:672:ILE:HG13	22:T1:711:VAL:HG22	1.80	0.64
26:X2:148:MET:HE1	26:X2:182:LEU:HD22	1.78	0.64
27:Y4:85:GLU:HB2	27:Y4:101:LEU:HD11	1.80	0.64
27:Y4:313:ASN:HB2	27:Y4:318:ILE:H	1.61	0.64
28:Z1:532:PHE:N	30:b1:184:SER:HA	2.13	0.64
28:Z1:553:ILE:HD11	30:b1:182:PRO:HG2	1.79	0.64
29:a2:252[B]:MET:CG	29:a2:253:PRO:HD2	2.26	0.64
30:b2:339:ILE:HB	30:b2:354:ILE:HB	1.79	0.64
30:b4:110:THR:HG22	30:b4:128:GLY:HA3	1.79	0.64
1:A1:1399:ARG:NH2	2:A2:885:LEU:CA	2.45	0.64
2:A2:870:HIS:NE2	6:D1:551:PHE:C	2.56	0.64
1:A3:1396:GLY:HA2	2:A4:888:GLN:CD	2.07	0.64
2:A4:780:GLU:CA	6:D3:677:GLN:O	2.46	0.64
2:A4:983:LEU:CG	6:D3:497:PHE:CE2	2.75	0.64
2:A4:1141:GLU:HB2	3:A6:564:ASN:C	2.06	0.64
3:A5:1094:ILE:CG2	11:I5:4:LEU:CA	2.76	0.64
3:A6:1361:ARG:HH22	28:Z4:879:PHE:CB	2.10	0.64
6:D3:450:GLU:O	6:D3:454:THR:HG22	1.97	0.64
11:I1:915:ALA:HB3	15:M1:582:THR:C	2.22	0.64
11:I1:967:SER:HB3	15:M1:625:GLY:N	2.12	0.64
11:I1:984:GLU:HB2	15:M1:618:GLN:NE2	2.13	0.64
11:I1:1021:ILE:C	16:N1:406:HIS:HD1	2.04	0.64
11:I1:1024:PHE:CA	16:N1:406:HIS:HB2	2.20	0.64
11:I1:1052:LEU:CB	16:N1:438:LEU:HD13	2.08	0.64
11:I1:1602:PHE:HB3	11:I2:1666:THR:HG21	1.79	0.64
11:I2:797:LEU:CD1	17:O3:248:SER:OG	2.45	0.64
11:I2:927:HIS:CB	15:M3:597:LYS:HB3	2.28	0.64
11:I2:964:SER:O	20:R3:153:GLN:CG	2.46	0.64
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:1097:LYS:NZ	21:S1:1101:PHE:HE1	1.96	0.64
28:Z1:555:LYS:HD2	30:b1:233:TRP:CZ3	2.32	0.64
28:Z1:561:GLN:CG	30:b1:237:LEU:N	2.61	0.64
28:Z2:443:LEU:CD2	30:b2:250:GLY:HA2	2.24	0.64
28:Z2:530:LYS:HZ3	30:b2:164:CYS:HA	1.61	0.64
30:b4:339:ILE:HB	30:b4:354:ILE:HB	1.79	0.64
1:A3:1054:SER:CA	6:D3:809:ALA:CA	2.71	0.64
2:A4:983:LEU:CD1	6:D3:497:PHE:CE2	2.81	0.64
2:A4:1157:TYR:HB3	3:A6:133:LYS:CB	2.28	0.64
3:A5:177:ILE:HD11	5:C2:740:ARG:HD2	1.79	0.64
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB2	1.74	0.64
3:A5:1392:ARG:HG3	28:Z2:867:LYS:CA	2.27	0.64
3:A5:1408:GLU:H	28:Z2:917:ASP:HA	1.62	0.64
3:A6:153:ILE:HD12	5:C4:739:MET:HB2	1.80	0.64
3:A6:220:VAL:HG11	5:C4:739:MET:HA	1.80	0.64
6:D7:450:GLU:O	6:D7:454:THR:HG22	1.97	0.64
11:I1:837:MET:N	17:O1:241:SER:HA	2.12	0.64
11:I1:931:VAL:O	15:M1:604:ASN:N	2.31	0.64
11:I1:1297:LEU:O	11:I1:1301:ASN:ND2	2.31	0.64
11:I2:899:LEU:HA	17:O3:235:ASN:HB2	1.79	0.64
11:I2:917:TYR:N	15:M3:586:ASP:O	2.30	0.64
11:I2:1021:ILE:HA	16:N3:406:HIS:HE1	1.49	0.64
11:I2:1032:THR:O	20:R3:173:LEU:CG	2.45	0.64
11:I2:1046:HIS:HB2	17:O3:280:GLU:CB	2.28	0.64
11:I4:640:ILE:O	11:I4:645:ARG:NH1	2.31	0.64
11:I4:1279:THR:HG23	26:X3:520:GLU:O	1.96	0.64
11:I5:1297:LEU:O	11:I5:1301:ASN:ND2	2.31	0.64
22:T1:671:LYS:HE2	22:T1:671:LYS:HA	1.80	0.64
22:T1:696:MET:HE2	22:T1:750:ILE:HG21	1.80	0.64
23:U2:260:GLU:OE2	24:V2:318:HIS:NE2	2.29	0.64
27:Y1:219:SER:HG	27:Y1:312:TRP:CD1	2.15	0.64
28:Z1:527:SER:CB	30:b1:204:GLU:CG	2.76	0.64
28:Z3:532:PHE:N	30:b3:184:SER:HA	2.13	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
1:A1:874:VAL:CB	6:D3:272:VAL:HB	2.27	0.64
1:A1:1399:ARG:CZ	2:A2:888:GLN:CG	2.75	0.64
2:A2:227:SER:N	6:D1:708:ASP:O	2.30	0.64
2:A2:909:LYS:O	6:D1:555:ARG:CD	2.45	0.64
2:A2:992:TYR:CG	6:D1:238:ALA:HB2	2.33	0.64
2:A4:878:LEU:HD12	6:D3:567:LEU:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:H	6:D3:499:LEU:CD1	1.97	0.64
2:A4:989:MSE:HG3	6:D3:500:LYS:CD	2.28	0.64
2:A4:1148:ARG:HB2	3:A6:173:ASN:OD1	1.98	0.64
3:A5:1368:GLN:HB3	28:Z2:841:ALA:HA	0.64	0.64
3:A6:164:LEU:HD23	5:C4:742:ASP:OD2	1.94	0.64
11:I1:834:SER:H	17:O1:237:PRO:CB	2.07	0.64
11:I1:876:ALA:O	17:O1:248:SER:HA	1.98	0.64
11:I1:882:LYS:HB3	17:O1:245:GLU:CB	2.03	0.64
11:I1:1040:HIS:CE1	15:M1:623:LEU:HD21	2.33	0.64
11:I2:899:LEU:CG	17:O3:235:ASN:HB2	2.28	0.64
11:I2:916:ALA:C	15:M3:585:LEU:O	2.40	0.64
11:I2:1021:ILE:HG13	16:N3:410:MET:CE	2.24	0.64
11:I2:1114:VAL:H	16:N3:435:ALA:HB1	1.61	0.64
11:I3:771:ASN:ND2	29:a2:12:LYS:HZ1	1.96	0.64
11:I3:1276:GLN:C	26:X1:522:MET:CB	2.71	0.64
11:I3:1297:LEU:O	11:I3:1301:ASN:ND2	2.31	0.64
21:S2:316:LEU:HA	21:S2:319:ASN:HD22	1.62	0.64
23:U1:242:LEU:HD22	24:V1:305:VAL:HG22	1.78	0.64
24:V4:152:ALA:HB1	24:V4:160:LEU:HD11	1.78	0.64
28:Z1:438:GLU:HB2	30:b1:333:HIS:HE1	1.62	0.64
28:Z2:532:PHE:N	30:b2:184:SER:HA	2.13	0.64
28:Z3:561:GLN:CG	30:b3:237:LEU:N	2.61	0.64
28:Z4:549:LYS:HB3	30:b4:182:PRO:HD3	1.79	0.64
1:A1:1202:GLU:N	2:A2:729:SER:C	2.55	0.64
2:A2:970:PHE:C	6:D1:192:TYR:CZ	2.75	0.64
2:A2:1157:TYR:C	3:A5:176:LEU:HG	2.23	0.64
2:A4:826:ASN:HD21	6:D3:633:LYS:HB3	1.62	0.64
2:A4:1135:ARG:CA	3:A6:145:THR:HB	2.25	0.64
3:A5:1050:TYR:CZ	11:I5:70:GLU:HB2	2.32	0.64
3:A5:1151:THR:HG23	5:C5:734:VAL:O	1.97	0.64
3:A5:1313:LYS:CA	28:Z2:833:ASP:CB	2.75	0.64
3:A5:1415:PHE:O	28:Z2:962:LYS:N	2.30	0.64
3:A6:1391:ARG:HH11	28:Z4:865:LYS:HA	1.63	0.64
3:A6:1407:GLY:HA2	26:X4:743:PHE:CA	2.28	0.64
3:A6:1410:ALA:HB1	26:X4:744:MET:N	2.12	0.64
8:F1:1264:ARG:NE	17:O2:263:GLN:CA	2.56	0.64
8:F2:1137:GLN:HB2	17:O4:251:ILE:HD13	0.67	0.64
11:I1:984:GLU:CG	15:M1:617:THR:HG22	2.28	0.64
11:I1:1063:GLN:C	16:N1:428:ASP:CG	2.59	0.64
11:I2:966:TRP:CA	20:R3:153:GLN:HB3	2.27	0.64
11:I2:978:LYS:NZ	20:R3:152:LYS:O	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1271:GLU:CD	26:X1:504:ILE:HD12	2.22	0.64
11:I4:817:ASP:N	26:X3:498:SER:CB	2.61	0.64
11:I5:640:ILE:O	11:I5:645:ARG:NH1	2.31	0.64
17:O4:109:PRO:HD2	18:P4:318:PRO:CB	2.28	0.64
22:T2:696:MET:HE2	22:T2:750:ILE:HG21	1.80	0.64
28:Z1:526:ARG:O	30:b1:204:GLU:OE1	2.16	0.64
28:Z1:555:LYS:HE2	30:b1:213:ASP:HB3	1.79	0.64
28:Z1:556:ASN:CG	30:b1:166:LEU:CD2	2.70	0.64
28:Z1:561:GLN:CD	30:b1:237:LEU:H	2.04	0.64
28:Z3:527:SER:CB	30:b3:204:GLU:CG	2.76	0.64
30:b2:55:GLY:H	30:b2:384:ARG:HH11	1.46	0.64
1:A1:1332:ARG:HD2	6:D1:636:ASP:OD1	1.98	0.63
1:A1:1400:SER:HA	2:A2:881:GLU:OE2	1.97	0.63
2:A4:878:LEU:HB2	6:D3:567:LEU:HD13	0.66	0.63
2:A4:880:ALA:HB1	6:D3:562:GLY:O	1.97	0.63
2:A4:908:LEU:O	6:D3:555:ARG:CD	2.42	0.63
2:A4:1148:ARG:HD2	3:A6:174:PRO:HD3	1.79	0.63
3:A5:230:LYS:C	5:C2:736:ASN:CG	2.65	0.63
3:A5:999:SER:O	11:I5:64:LYS:CG	2.45	0.63
3:A5:1414:PHE:H	28:Z2:961:PHE:CB	2.11	0.63
3:A6:220:VAL:CG1	5:C4:739:MET:HA	2.28	0.63
3:A6:1368:GLN:HB2	28:Z4:848:SER:CB	2.27	0.63
11:I1:881:ILE:HD11	17:O1:253:LEU:HG	1.79	0.63
11:I1:1668:HIS:O	11:I2:1668:HIS:CB	2.45	0.63
11:I1:1739:GLU:CB	11:I2:1540:LYS:CE	2.75	0.63
11:I2:828:VAL:C	17:O3:237:PRO:HG2	2.23	0.63
11:I2:948:ALA:CB	17:O3:257:ALA:H	2.02	0.63
11:I2:978:LYS:HE2	20:R3:154:ALA:H	1.59	0.63
11:I2:1051:LYS:HZ3	17:O3:285:LYS:NZ	1.96	0.63
11:I5:1279:THR:OG1	26:X2:520:GLU:O	2.15	0.63
23:U4:20:LYS:O	23:U4:24:ILE:HG12	1.97	0.63
25:W2:180:ASN:HA	25:W2:207:VAL:HG23	1.79	0.63
26:X3:119:GLY:O	26:X3:122:ARG:HG2	1.96	0.63
28:Z1:525:LEU:C	30:b1:208:ASN:CG	2.60	0.63
28:Z3:561:GLN:CD	30:b3:237:LEU:H	2.04	0.63
28:Z4:532:PHE:N	30:b4:184:SER:HA	2.13	0.63
2:A2:1135:ARG:O	3:A5:134:VAL:CG1	2.45	0.63
2:A2:1152:ASP:HB2	3:A5:173:ASN:CA	2.27	0.63
1:A3:1084:ARG:CG	6:D3:794:THR:CA	2.49	0.63
3:A5:1030:THR:CA	11:I5:71:GLU:O	2.44	0.63
3:A5:1365:VAL:HG12	28:Z2:829:SER:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:945:LEU:CG	17:O1:258:GLU:H	2.11	0.63
11:I1:1109:LEU:CA	16:N1:441:PHE:N	2.59	0.63
11:I2:640:ILE:O	11:I2:645:ARG:NH1	2.31	0.63
11:I2:894:VAL:H	17:O3:239:GLN:CG	1.94	0.63
11:I2:948:ALA:CB	17:O3:253:LEU:CA	2.50	0.63
11:I2:948:ALA:CB	17:O3:257:ALA:N	2.54	0.63
11:I2:980:ILE:HA	15:M3:618:GLN:CA	2.22	0.63
11:I2:1039:ALA:HA	20:R3:170:LEU:HD12	1.75	0.63
11:I2:1068:HIS:C	16:N3:429:GLU:CD	2.66	0.63
11:I2:1069:SER:OG	16:N3:427:VAL:HB	1.99	0.63
11:I4:1274:HIS:HD1	26:X3:531:LEU:CD1	2.05	0.63
22:T3:696:MET:HE2	22:T3:750:ILE:HG21	1.80	0.63
22:T4:885:ARG:HH11	22:T4:885:ARG:CG	2.11	0.63
25:W1:180:ASN:HA	25:W1:207:VAL:HG23	1.79	0.63
25:W1:227:GLN:HA	25:W1:256:VAL:HG13	1.80	0.63
25:W4:227:GLN:HA	25:W4:256:VAL:HG13	1.79	0.63
28:Z2:523:ASP:OD1	30:b2:238:ASN:OD1	2.13	0.63
28:Z3:526:ARG:O	30:b3:204:GLU:OE1	2.16	0.63
28:Z3:556:ASN:CG	30:b3:166:LEU:CD2	2.70	0.63
28:Z4:524:VAL:C	30:b4:236:THR:CG2	2.70	0.63
28:Z4:554:PHE:O	30:b4:233:TRP:O	1.89	0.63
30:b3:55:GLY:H	30:b3:384:ARG:HH11	1.46	0.63
30:b3:200:LEU:HD11	30:b3:212:PHE:HD2	1.63	0.63
2:A2:227:SER:OG	6:D1:711:PHE:CD2	2.41	0.63
2:A2:1143:LEU:CD1	3:A5:131:PRO:C	2.27	0.63
1:A3:1049:PHE:HA	6:D3:816:VAL:HG21	1.81	0.63
2:A4:782:VAL:CG2	6:D3:677:GLN:CA	2.68	0.63
2:A4:868:GLN:CD	6:D3:570:VAL:CG1	2.70	0.63
2:A4:869:ALA:N	6:D3:570:VAL:CB	2.60	0.63
3:A5:1098:ARG:NE	11:I5:29:GLN:O	2.19	0.63
3:A5:1363:ASP:OD2	28:Z2:872:TYR:CA	2.32	0.63
3:A6:147:LEU:O	5:C4:747:PRO:CG	2.46	0.63
3:A6:1337:ALA:HB3	28:Z4:961:PHE:H	1.64	0.63
11:I1:948:ALA:H	17:O1:256:TYR:HB3	1.60	0.63
11:I1:981:VAL:CA	20:R1:147:LEU:CD2	2.76	0.63
11:I1:1609:GLY:C	12:J2:295:TYR:CE1	2.71	0.63
11:I2:957:SER:CA	20:R3:167:GLN:C	2.57	0.63
11:I2:980:ILE:N	20:R3:147:LEU:HD11	2.07	0.63
11:I2:1107:SER:CB	16:N3:436:ALA:O	2.40	0.63
11:I2:1360:GLU:N	11:I2:1360:GLU:OE1	2.32	0.63
11:I4:1274:HIS:HB2	26:X3:525:ILE:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1275:SER:CB	26:X3:525:ILE:HB	2.27	0.63
17:O3:151:LEU:CD2	18:P3:325:ILE:HG12	0.92	0.63
21:S1:316:LEU:HA	21:S1:319:ASN:HD22	1.62	0.63
22:T2:885:ARG:HH11	22:T2:885:ARG:CG	2.11	0.63
27:Y1:85:GLU:HB2	27:Y1:101:LEU:HD11	1.80	0.63
27:Y2:85:GLU:HB2	27:Y2:101:LEU:HD11	1.80	0.63
28:Z2:410:ASN:ND2	30:b2:252:ALA:N	2.47	0.63
28:Z3:553:ILE:HD11	30:b3:182:PRO:HG2	1.79	0.63
1:A1:1220:PRO:O	2:A2:645:PHE:CD1	2.52	0.63
2:A2:989:MSE:CB	6:D1:500:LYS:CE	2.76	0.63
1:A3:1202:GLU:O	2:A4:732:GLN:CB	2.46	0.63
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD13	0.83	0.63
2:A4:868:GLN:HA	6:D3:570:VAL:CG1	2.05	0.63
2:A4:966:LEU:O	6:D3:202:GLN:CD	2.41	0.63
3:A6:220:VAL:HG13	5:C4:739:MET:N	2.11	0.63
11:I1:833:PHE:HE1	17:O1:245:GLU:CD	2.06	0.63
11:I1:931:VAL:HG22	15:M1:604:ASN:HB2	1.76	0.63
11:I1:998:ALA:HB2	17:O1:267:ALA:CB	2.27	0.63
11:I1:1052:LEU:H	17:O1:286:ILE:CG2	2.11	0.63
11:I1:1065:SER:HG	16:N1:430:ARG:HG3	1.61	0.63
11:I1:1113:LEU:CB	16:N1:435:ALA:HB1	2.25	0.63
11:I1:1360:GLU:N	11:I1:1360:GLU:OE1	2.32	0.63
11:I2:877:ILE:C	17:O3:253:LEU:N	2.56	0.63
11:I2:945:LEU:HD12	17:O3:258:GLU:N	2.09	0.63
11:I2:965:ALA:HB2	20:R3:164:PRO:CA	2.18	0.63
17:O4:110:LEU:HD22	18:P4:321:ILE:CB	2.17	0.63
22:T3:671:LYS:HE2	22:T3:671:LYS:HA	1.80	0.63
22:T4:672:ILE:HG13	22:T4:711:VAL:HG22	1.80	0.63
22:T4:851:LYS:HA	22:T4:891:VAL:HG13	1.81	0.63
1:A1:1393:THR:N	2:A2:851:ASP:OD1	2.31	0.63
2:A2:975:GLU:H	6:D1:499:LEU:CD1	2.12	0.63
3:A6:1312:ARG:HH12	28:Z4:842:LEU:N	1.97	0.63
8:F2:140:GLU:HB3	17:O4:237:PRO:CG	1.98	0.63
11:I1:846:ILE:CB	17:O1:247:TRP:CH2	2.82	0.63
11:I1:955:LYS:CG	16:N1:397:GLU:O	2.46	0.63
11:I1:1066:LEU:N	16:N1:430:ARG:CD	2.52	0.63
11:I1:1605:LEU:HD13	11:I2:1669:ARG:HD2	0.69	0.63
11:I2:880:MET:SD	17:O3:250:LEU:HD21	2.36	0.63
11:I2:935:GLY:HA2	15:M3:606:LEU:C	2.24	0.63
11:I2:947:LEU:CD2	16:N3:408:MET:HA	2.29	0.63
11:I2:950:LEU:CB	16:N3:406:HIS:CD2	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1236:TYR:HE1	29:a2:24[B]:GLY:CA	2.11	0.63
11:I5:1277:LEU:CD2	26:X2:517:ASP:CB	2.77	0.63
26:X4:265:ILE:HG21	26:X4:289:ILE:HD11	1.81	0.63
28:Z2:526:ARG:O	30:b2:204:GLU:OE1	2.15	0.63
28:Z2:549:LYS:HB3	30:b2:182:PRO:HD3	1.79	0.63
28:Z3:549:LYS:HB3	30:b3:182:PRO:HD3	1.80	0.63
1:A1:1223:GLU:HG2	2:A2:724:LEU:CB	2.27	0.63
2:A2:225:THR:N	6:D1:709:ARG:NH1	2.45	0.63
2:A2:1136:LYS:NZ	3:A5:138:LEU:C	2.54	0.63
1:A3:1091:VAL:HG23	6:D3:805:GLY:O	1.98	0.63
2:A4:980:ARG:CD	6:D3:526:LEU:N	2.59	0.63
2:A4:1127:ALA:N	3:A6:140:ALA:HB2	2.10	0.63
2:A4:1167:CYS:HB3	4:B6:342:ARG:HG2	1.79	0.63
3:A5:1364:GLN:HE21	28:Z2:843:LYS:CA	2.09	0.63
3:A6:1366:LEU:CD1	28:Z4:870:ILE:H	2.11	0.63
8:F1:1264:ARG:NE	17:O2:263:GLN:HA	2.14	0.63
9:G2:256:GLN:CG	17:O4:262:ASP:N	2.61	0.63
9:G2:256:GLN:N	17:O4:262:ASP:OD1	2.31	0.63
11:I1:1104:LEU:CG	20:R1:174:ARG:CD	2.77	0.63
11:I2:874:LEU:HD23	17:O3:252:VAL:O	1.99	0.63
11:I2:948:ALA:HB3	17:O3:253:LEU:O	1.97	0.63
11:I2:1052:LEU:H	17:O3:286:ILE:CB	2.12	0.63
11:I2:1186:PRO:CB	17:O4:225:GLN:HE21	2.05	0.63
21:S3:316:LEU:HA	21:S3:319:ASN:HD22	1.63	0.63
23:U4:260:GLU:OE2	24:V4:318:HIS:NE2	2.29	0.63
28:Z1:559:GLU:HB3	30:b1:211:ILE:O	1.99	0.63
28:Z1:560:ASN:HB2	30:b1:211:ILE:HD12	1.81	0.63
28:Z1:829:SER:HA	28:Z1:841:ALA:HB1	1.81	0.63
28:Z2:527:SER:CB	30:b2:204:GLU:CG	2.76	0.63
28:Z2:559:GLU:HB3	30:b2:211:ILE:O	1.99	0.63
28:Z4:560:ASN:HB2	30:b4:211:ILE:HD12	1.80	0.63
1:A1:1200:ARG:CZ	2:A2:642:ARG:HH22	2.12	0.63
2:A2:1185:THR:HG21	4:B5:342:ARG:NH1	2.14	0.63
1:A3:1201:ARG:CB	2:A4:735:ALA:HB2	2.28	0.63
2:A4:781:ARG:HE	6:D3:673:ARG:HH11	1.47	0.63
2:A4:872:ALA:HB1	6:D3:565:MET:HB3	1.81	0.63
2:A4:1139:ILE:O	3:A6:135:PHE:CE2	2.51	0.63
3:A5:1000:ASP:N	11:I5:62:GLU:HB3	2.14	0.63
3:A5:1094:ILE:HG23	11:I5:4:LEU:CA	2.26	0.63
3:A6:1368:GLN:NE2	28:Z4:825:TYR:CA	2.56	0.63
3:A6:1416:ARG:CG	28:Z4:966:CYS:O	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:640:ILE:O	11:I1:645:ARG:NH1	2.31	0.63
11:I1:920:PHE:HD1	17:O1:243:LEU:HD22	1.62	0.63
11:I1:959:SER:OG	16:N1:395:GLU:CB	2.45	0.63
11:I1:1020:ALA:CB	16:N1:405:ALA:C	2.50	0.63
11:I1:1046:HIS:ND1	17:O1:284:LYS:N	2.35	0.63
11:I1:1104:LEU:HD13	16:N1:433:GLU:CB	2.29	0.63
11:I2:978:LYS:O	20:R3:151:LYS:HG3	1.98	0.63
11:I2:1104:LEU:HD21	16:N3:433:GLU:HG3	0.69	0.63
27:Y1:81:VAL:HG23	27:Y1:111:LEU:HD13	1.81	0.63
28:Z1:411:LEU:H	30:b1:251:ILE:HD13	1.11	0.63
28:Z2:561:GLN:CG	30:b2:237:LEU:N	2.61	0.63
28:Z3:526:ARG:O	30:b3:206:ASN:CG	2.37	0.63
28:Z4:555:LYS:CG	30:b4:213:ASP:N	2.59	0.63
30:b4:200:LEU:HD11	30:b4:212:PHE:HD2	1.63	0.63
2:A2:970:PHE:CD1	6:D1:192:TYR:CZ	2.86	0.63
2:A2:981:PRO:HG2	6:D1:504:LYS:HG2	1.75	0.63
2:A4:875:LEU:CD1	6:D3:567:LEU:CG	2.47	0.63
2:A4:985:ALA:CB	6:D3:500:LYS:HA	2.25	0.63
6:D7:483:GLU:HG3	11:I3:191:GLU:OE1	1.99	0.63
8:F1:1138:TRP:CB	17:O2:244:GLU:HG2	2.11	0.63
11:I1:882:LYS:HB2	17:O1:245:GLU:CA	2.29	0.63
11:I1:992:ILE:HG21	15:M1:607:SER:CB	1.91	0.63
11:I2:930:LEU:O	15:M3:601:ASP:O	2.02	0.63
11:I2:935:GLY:C	17:O3:261:LYS:HZ3	1.71	0.63
11:I2:988:GLU:O	15:M3:608:LYS:HG2	1.99	0.63
11:I3:816:ASP:CA	26:X1:498:SER:CB	2.71	0.63
28:Z2:555:LYS:HE2	30:b2:213:ASP:HB3	1.79	0.63
28:Z3:559:GLU:HB3	30:b3:211:ILE:O	1.99	0.63
2:A2:227:SER:HB2	6:D1:711:PHE:HD2	1.22	0.63
2:A2:235:TYR:HE1	4:B2:347:LEU:CB	2.12	0.63
1:A3:1056:PHE:HE2	6:D3:806:ASP:C	2.06	0.63
1:A3:1090:SER:OG	6:D3:804:SER:CB	2.46	0.63
2:A4:860:GLU:CG	6:D3:606:LYS:HB3	2.24	0.63
2:A4:867:GLU:H	6:D3:605:THR:CG2	1.87	0.63
2:A4:908:LEU:C	6:D3:552:TYR:CZ	2.76	0.63
2:A4:1137:ALA:O	3:A6:564:ASN:O	2.17	0.63
2:A4:1154:PHE:N	3:A6:175:GLU:CA	2.61	0.63
2:A4:1155:ASN:CB	3:A6:175:GLU:C	2.71	0.63
3:A5:1026:PRO:HG2	11:I5:73:TYR:HD1	1.50	0.63
8:F2:1137:GLN:CB	17:O4:251:ILE:CD1	2.36	0.63
9:G1:253:SER:HG	15:M2:601:ASP:CG	2.05	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:872:SER:O	17:O1:251:ILE:CG2	2.47	0.63
11:I1:978:LYS:O	15:M1:621:ARG:HD3	1.99	0.63
11:I1:984:GLU:CB	15:M1:618:GLN:HE21	2.10	0.63
11:I1:1048:GLU:C	15:M1:622:VAL:CG1	2.72	0.63
11:I2:840:LEU:O	15:M3:591:ASP:OD1	2.16	0.63
11:I2:873:ILE:HG23	17:O3:254:ARG:HG2	1.79	0.63
11:I2:965:ALA:HB1	20:R3:164:PRO:HA	1.71	0.63
11:I2:1050:SER:O	17:O3:290:TYR:HB2	1.98	0.63
11:I2:1052:LEU:HD23	16:N3:434:LEU:CG	2.29	0.63
11:I3:1360:GLU:N	11:I3:1360:GLU:OE1	2.32	0.63
11:I5:1360:GLU:N	11:I5:1360:GLU:OE1	2.32	0.63
17:O3:147:ALA:C	18:P3:328:PRO:CB	2.71	0.63
21:S2:950:HIS:ND1	21:S2:978:ALA:HB2	2.13	0.63
21:S4:950:HIS:ND1	21:S4:978:ALA:HB2	2.13	0.63
27:Y4:42:THR:O	27:Y4:44:ASN:N	2.31	0.63
28:Z2:63:SER:OG	28:Z2:112:GLU:OE1	2.15	0.63
28:Z2:561:GLN:NE2	30:b2:237:LEU:CD1	2.60	0.63
28:Z3:829:SER:HA	28:Z3:841:ALA:HB1	1.81	0.63
29:a4:252[B]:MET:CG	29:a4:253:PRO:HD2	2.26	0.63
1:A1:1226:LEU:HA	2:A2:728:LYS:HB3	1.81	0.62
2:A2:911:TYR:HH	6:D1:196:ILE:HG21	1.64	0.62
1:A3:1224:PRO:CG	2:A4:734:LEU:HD22	2.29	0.62
2:A4:985:ALA:C	6:D3:500:LYS:HA	2.24	0.62
2:A4:1139:ILE:CD1	3:A6:134:VAL:HA	2.26	0.62
3:A5:177:ILE:O	5:C2:743:LEU:HB3	1.98	0.62
3:A5:1094:ILE:HG12	11:I5:4:LEU:HD12	1.77	0.62
11:I1:911:PRO:CA	15:M1:584:GLN:NE2	2.60	0.62
11:I1:937:TYR:CD2	15:M1:602:MET:HE1	2.34	0.62
11:I1:1043:LEU:C	16:N1:430:ARG:HD2	2.24	0.62
11:I1:1670:GLY:HA2	11:I2:1639:LEU:HD22	1.81	0.62
11:I2:899:LEU:CD2	17:O3:235:ASN:H	2.12	0.62
11:I2:899:LEU:HD11	17:O3:234:LEU:CA	2.28	0.62
11:I2:1114:VAL:HG11	16:N3:432:TYR:CD2	2.35	0.62
11:I3:640:ILE:O	11:I3:645:ARG:NH1	2.31	0.62
17:O4:109:PRO:CA	18:P4:318:PRO:HB3	2.29	0.62
21:S3:950:HIS:ND1	21:S3:978:ALA:HB2	2.13	0.62
21:S3:1054:LEU:HA	21:S3:1057:TYR:HD2	1.64	0.62
21:S3:1097:LYS:NZ	21:S3:1101:PHE:HE1	1.96	0.62
22:T2:671:LYS:HE2	22:T2:671:LYS:HA	1.80	0.62
2:A2:863:GLN:HA	6:D1:605:THR:N	2.13	0.62
1:A3:1054:SER:HB3	6:D3:809:ALA:CB	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:OE1	2:A4:726:ALA:CB	2.48	0.62
2:A4:909:LYS:HG3	6:D3:552:TYR:CG	2.33	0.62
2:A4:910:TYR:CE1	6:D3:564:ASN:ND2	2.67	0.62
3:A5:1026:PRO:CA	11:I5:68:ILE:H	2.01	0.62
3:A5:1369:ILE:HG22	28:Z2:827:GLN:O	1.95	0.62
3:A6:1368:GLN:CD	28:Z4:844:CYS:O	2.35	0.62
3:A6:1393:THR:HA	28:Z4:905:LEU:HA	1.81	0.62
4:B6:344:ALA:HB1	5:C4:737:LYS:HD3	1.80	0.62
6:D7:176:SER:HB3	11:I3:95:LYS:HZ3	1.60	0.62
8:F1:1137:GLN:C	17:O2:244:GLU:O	2.42	0.62
11:I1:882:LYS:CB	17:O1:245:GLU:C	2.71	0.62
11:I1:931:VAL:CG2	15:M1:604:ASN:CB	2.70	0.62
11:I1:937:TYR:C	17:O1:257:ALA:O	2.42	0.62
11:I1:967:SER:O	15:M1:628:ALA:CB	2.47	0.62
11:I1:1644:ARG:HD3	12:J1:275:PHE:CZ	2.35	0.62
11:I2:895:ARG:HA	17:O3:234:LEU:O	1.99	0.62
11:I2:899:LEU:CD1	17:O3:232:LYS:C	2.62	0.62
11:I2:925:LEU:HG	15:M3:593:ALA:HA	1.81	0.62
11:I2:962:ILE:HG12	15:M3:600:ASN:CG	2.23	0.62
11:I4:817:ASP:N	26:X3:498:SER:HB3	2.14	0.62
11:I5:1279:THR:CB	26:X2:520:GLU:C	2.72	0.62
22:T3:851:LYS:HA	22:T3:891:VAL:HG13	1.81	0.62
28:Z4:559:GLU:HB3	30:b4:211:ILE:O	1.99	0.62
29:a3:252[B]:MET:CG	29:a3:253:PRO:HD2	2.26	0.62
30:b1:200:LEU:HD11	30:b1:212:PHE:HD2	1.63	0.62
30:b3:371:HIS:CE1	30:b3:384:ARG:HD2	2.35	0.62
1:A1:1201:ARG:C	2:A2:731:ILE:O	2.42	0.62
2:A2:1125:LEU:C	3:A5:136:GLU:HB2	2.16	0.62
2:A2:1143:LEU:CG	3:A5:131:PRO:C	2.63	0.62
1:A3:1056:PHE:HE1	6:D3:812:VAL:H	1.45	0.62
2:A4:909:LYS:CG	6:D3:552:TYR:CG	2.79	0.62
3:A5:1033:GLN:HE22	11:I5:71:GLU:HG2	1.64	0.62
6:D7:530:ARG:HB3	11:I3:181:GLN:CB	1.96	0.62
11:I1:877:ILE:CB	17:O1:253:LEU:H	2.00	0.62
11:I2:797:LEU:HD12	17:O3:248:SER:HG	1.61	0.62
11:I2:888:GLU:H	16:N3:393:ILE:CG2	2.00	0.62
11:I2:899:LEU:CD1	17:O3:235:ASN:H	2.11	0.62
11:I2:1100:ILE:HG22	16:N3:433:GLU:CD	2.24	0.62
11:I2:1644:ARG:HD3	12:J2:275:PHE:CZ	2.34	0.62
11:I3:1274:HIS:CD2	26:X1:534:ILE:HB	2.33	0.62
11:I5:1227:GLU:N	11:I5:1227:GLU:OE1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1433:THR:HG21	12:J5:270:ARG:HD3	1.82	0.62
21:S2:1032:ILE:CD1	21:S2:1051:ALA:HA	2.29	0.62
26:X2:265:ILE:HG21	26:X2:289:ILE:HD11	1.81	0.62
28:Z3:400:LYS:HB3	30:b3:205:ARG:HH21	1.64	0.62
1:A1:1204:TRP:HZ3	2:A2:757:LEU:HD13	1.57	0.62
2:A2:1163:TYR:CE2	3:A5:133:LYS:CE	2.83	0.62
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG1	2.27	0.62
1:A3:1054:SER:CB	6:D3:809:ALA:C	2.71	0.62
1:A3:1056:PHE:CE1	6:D3:809:ALA:O	2.50	0.62
2:A4:909:LYS:N	6:D3:552:TYR:OH	2.32	0.62
3:A5:230:LYS:C	5:C2:739:MET:N	2.54	0.62
3:A5:1300:LEU:CG	28:Z2:838:GLN:CB	2.77	0.62
3:A6:1416:ARG:CB	28:Z4:977:ALA:CB	2.77	0.62
8:F2:330:GLU:N	8:F2:330:GLU:OE1	2.32	0.62
11:I1:841:PHE:CD1	17:O1:243:LEU:HD13	2.34	0.62
11:I1:988:GLU:HA	15:M1:611:LYS:H	1.64	0.62
11:I2:1043:LEU:HA	16:N3:430:ARG:HG3	1.81	0.62
11:I2:1045:PHE:CD1	17:O3:279:ILE:HG22	2.33	0.62
11:I2:1101:LEU:HD23	16:N3:432:TYR:HD1	0.79	0.62
11:I2:1110:SER:CB	16:N3:438:LEU:N	2.47	0.62
11:I3:1116:ASP:OD1	12:J3:241:THR:HG23	2.00	0.62
11:I4:1267:LEU:HD11	26:X3:529:TRP:CZ3	2.34	0.62
22:T4:917:ASP:HB2	22:T4:918:PRO:HD2	1.82	0.62
23:U3:260:GLU:OE2	24:V3:318:HIS:NE2	2.29	0.62
28:Z3:527:SER:HA	30:b3:204:GLU:OE1	1.50	0.62
28:Z3:555:LYS:HA	30:b3:234:LEU:N	2.12	0.62
28:Z3:561:GLN:CB	30:b3:235:LEU:C	2.61	0.62
28:Z4:406:ARG:HG2	30:b4:252:ALA:HB1	1.82	0.62
30:b1:55:GLY:H	30:b1:384:ARG:HH11	1.46	0.62
30:b2:371:HIS:CE1	30:b2:384:ARG:HD2	2.35	0.62
2:A2:1122:LEU:C	3:A5:136:GLU:HG3	2.05	0.62
2:A2:1135:ARG:O	3:A5:147:LEU:HD21	1.98	0.62
1:A3:1052:THR:CG2	6:D3:813:GLN:C	2.70	0.62
1:A3:1201:ARG:N	2:A4:729:SER:O	2.32	0.62
1:A3:1203:TYR:HB3	2:A4:732:GLN:NE2	2.11	0.62
1:A3:1396:GLY:HA2	2:A4:888:GLN:CG	2.29	0.62
2:A4:866:SER:OG	6:D3:605:THR:HG23	1.99	0.62
2:A4:973:GLU:HG3	6:D3:192:TYR:CZ	2.35	0.62
3:A5:1403:MSE:C	28:Z2:920:SER:H	2.03	0.62
3:A6:165:PHE:CZ	5:C4:743:LEU:HD22	2.29	0.62
9:G2:257:THR:CG2	17:O4:258:GLU:H	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:890:TYR:CD1	17:O1:237:PRO:C	2.77	0.62
11:I1:895:ARG:CZ	17:O1:233:THR:CG2	2.69	0.62
11:I1:919:ALA:O	15:M1:592:LEU:CB	2.47	0.62
11:I1:1032:THR:OG1	15:M1:631:GLN:NE2	2.33	0.62
11:I1:1673:VAL:H	11:I2:1611:PHE:HA	1.64	0.62
11:I2:834:SER:CB	17:O3:237:PRO:O	2.47	0.62
11:I2:936:LYS:HE3	15:M3:612:PRO:CG	2.30	0.62
11:I2:938:CYS:O	17:O3:264:ILE:O	2.17	0.62
11:I2:963:LEU:O	20:R3:153:GLN:NE2	2.32	0.62
11:I2:1040:HIS:N	20:R3:170:LEU:CD2	2.51	0.62
11:I3:1227:GLU:N	11:I3:1227:GLU:OE1	2.32	0.62
11:I3:1273:GLU:HB2	26:X1:527:VAL:HG23	1.79	0.62
11:I4:408:PRO:O	11:I4:409:SER:OG	2.16	0.62
1:A1:1333:ARG:C	6:D1:637:LYS:HD3	2.24	0.62
2:A2:1149:THR:N	3:A5:172:PRO:HG2	2.14	0.62
2:A4:988:ARG:HH21	6:D3:499:LEU:C	2.06	0.62
2:A4:1098:ARG:NH2	6:D4:709:ARG:NH2	2.40	0.62
3:A5:1020:ILE:O	11:I5:95:LYS:NZ	0.57	0.62
3:A6:146:LYS:HE3	5:C4:747:PRO:O	2.00	0.62
3:A6:1388:ALA:O	28:Z4:866:GLU:CB	2.47	0.62
6:D7:176:SER:CB	11:I3:95:LYS:HZ1	2.12	0.62
11:I1:885:GLU:O	16:N1:397:GLU:CD	2.41	0.62
11:I1:1013:GLU:HB2	16:N1:411:GLN:OE1	1.99	0.62
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB3	1.78	0.62
11:I1:1037:THR:CB	20:R1:173:LEU:HD13	2.27	0.62
11:I2:935:GLY:HA3	15:M3:608:LYS:O	2.00	0.62
11:I2:950:LEU:CD2	16:N3:406:HIS:CD2	2.82	0.62
11:I2:968:PRO:CG	20:R3:153:GLN:HB2	2.30	0.62
11:I2:1017:VAL:HG22	16:N3:411:GLN:CA	1.85	0.62
11:I2:1046:HIS:C	17:O3:284:LYS:CG	2.70	0.62
11:I4:1227:GLU:N	11:I4:1227:GLU:OE1	2.32	0.62
17:O3:147:ALA:O	18:P3:328:PRO:HB3	1.99	0.62
28:Z1:119:VAL:HB	28:Z1:131:LEU:HB2	1.82	0.62
28:Z2:560:ASN:HB2	30:b2:211:ILE:HD12	1.80	0.62
30:b2:200:LEU:HD11	30:b2:212:PHE:HD2	1.63	0.62
2:A2:779:ASP:HB3	6:D1:679:ILE:O	2.00	0.62
2:A2:879:LEU:H	6:D1:567:LEU:CD1	2.13	0.62
2:A2:909:LYS:O	6:D1:555:ARG:CG	2.48	0.62
3:A5:172:PRO:HG3	5:C2:730:HIS:CD2	2.33	0.62
3:A6:1390:LEU:HB2	28:Z4:867:LYS:N	2.13	0.62
3:A6:1400:SER:OG	28:Z4:909:LEU:CB	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:925:LEU:HB3	15:M1:596:ILE:HD13	1.82	0.62
11:I1:952:LEU:HD12	16:N1:400:LEU:CD1	2.30	0.62
11:I1:957:SER:O	20:R1:168:LEU:HG	1.97	0.62
11:I2:890:TYR:CB	17:O3:238:ALA:C	2.72	0.62
11:I2:942:HIS:ND1	17:O3:259:ASP:OD1	2.33	0.62
11:I2:1041:GLN:CD	15:M3:617:THR:HG22	2.24	0.62
11:I2:1110:SER:CB	16:N3:435:ALA:C	2.72	0.62
17:O2:111:TYR:H	18:P2:325:ILE:CB	2.11	0.62
21:S2:1097:LYS:NZ	21:S2:1101:PHE:HE1	1.96	0.62
22:T1:851:LYS:HA	22:T1:891:VAL:HG13	1.81	0.62
26:X2:170:ASN:O	26:X2:174:GLU:HG3	1.99	0.62
28:Z1:523:ASP:OD1	30:b1:238:ASN:OD1	2.13	0.62
28:Z3:63:SER:OG	28:Z3:112:GLU:OE1	2.15	0.62
28:Z3:560:ASN:HB2	30:b3:211:ILE:HD12	1.80	0.62
28:Z4:119:VAL:HB	28:Z4:131:LEU:HB2	1.81	0.62
1:A1:1200:ARG:CZ	2:A2:642:ARG:NH2	2.62	0.62
1:A1:1224:PRO:CA	2:A2:723:PHE:O	2.34	0.62
2:A2:875:LEU:CG	6:D1:567:LEU:N	2.31	0.62
2:A2:979:GLY:HA3	6:D1:473:GLU:H	1.51	0.62
2:A4:1019:ARG:NH2	6:D3:238:ALA:HB3	2.15	0.62
3:A5:150:PHE:HE2	5:C2:742:ASP:N	1.97	0.62
3:A6:1399:ARG:HH21	28:Z4:945:VAL:CB	2.11	0.62
11:I1:849:LEU:CD2	17:O1:251:ILE:HD11	2.18	0.62
11:I1:966:TRP:CA	20:R1:153:GLN:HG2	2.25	0.62
11:I1:976:ARG:N	20:R1:149:ARG:HB3	2.12	0.62
11:I1:1013:GLU:CB	16:N1:411:GLN:OE1	2.38	0.62
11:I1:1116:ASP:OD1	12:J1:241:THR:HG23	2.00	0.62
11:I1:1611:PHE:HE2	11:I2:1669:ARG:NH1	1.76	0.62
11:I2:888:GLU:HG3	16:N3:393:ILE:C	2.19	0.62
11:I2:923:GLY:H	15:M3:592:LEU:N	1.97	0.62
11:I2:1020:ALA:HB2	16:N3:407:ALA:O	1.98	0.62
11:I2:1037:THR:HG21	20:R3:170:LEU:N	2.14	0.62
11:I3:1275:SER:CB	26:X1:522:MET:HG2	2.26	0.62
11:I4:1360:GLU:N	11:I4:1360:GLU:OE1	2.32	0.62
24:V1:300:LEU:HD23	24:V1:388:LEU:HD21	1.82	0.62
26:X2:515:THR:HG22	26:X2:516:ASN:H	1.65	0.62
27:Y3:85:GLU:HB2	27:Y3:101:LEU:HD11	1.80	0.62
27:Y4:81:VAL:HG23	27:Y4:111:LEU:HD13	1.81	0.62
28:Z1:555:LYS:HA	30:b1:234:LEU:N	2.12	0.62
28:Z2:406:ARG:HG2	30:b2:252:ALA:HB1	1.82	0.62
28:Z2:558:LEU:HA	30:b2:236:THR:H	1.60	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:527:SER:CB	30:b4:204:GLU:CG	2.76	0.62
30:b2:53:SER:OG	30:b2:54:THR:N	2.29	0.62
2:A2:973:GLU:CB	6:D1:205:LEU:CD2	2.59	0.62
2:A2:1127:ALA:O	3:A5:140:ALA:HB3	1.89	0.62
2:A2:1155:ASN:CG	5:C2:735:ILE:HA	2.25	0.62
2:A4:826:ASN:CG	6:D3:633:LYS:CB	2.67	0.62
2:A4:1019:ARG:NH1	6:D3:238:ALA:O	2.32	0.62
3:A6:153:ILE:CB	5:C4:739:MET:SD	2.87	0.62
11:I1:890:TYR:HD1	17:O1:238:ALA:N	1.87	0.62
11:I1:895:ARG:HA	17:O1:236:ASP:N	2.13	0.62
11:I1:928:LEU:HD21	20:R1:154:ALA:C	2.20	0.62
11:I1:951:LYS:CB	17:O1:253:LEU:HD21	2.28	0.62
11:I1:1021:ILE:HG13	16:N1:410:MET:N	2.15	0.62
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CB	2.13	0.62
11:I2:900:ARG:HG3	17:O3:232:LYS:CD	2.30	0.62
11:I2:976:ARG:CB	20:R3:149:ARG:CB	2.53	0.62
11:I2:1038:ILE:CD1	15:M3:617:THR:O	2.47	0.62
11:I4:26:GLU:N	11:I4:26:GLU:OE1	2.33	0.62
11:I4:1116:ASP:OD1	12:J4:241:THR:HG23	2.00	0.62
11:I4:1272:TYR:H	26:X3:528:GLU:HB2	1.64	0.62
24:V2:300:LEU:HD23	24:V2:388:LEU:HD21	1.82	0.62
28:Z2:125:ASP:OD1	28:Z2:127:SER:OG	2.17	0.62
28:Z2:522:ASN:OD1	30:b2:241:PRO:CB	2.47	0.62
28:Z4:829:SER:HA	28:Z4:841:ALA:HB1	1.81	0.62
2:A2:989:MSE:HE3	6:D1:239:THR:C	2.24	0.62
2:A4:780:GLU:CA	6:D3:677:GLN:C	2.70	0.62
2:A4:1094:ILE:CD1	6:D4:708:ASP:CA	2.56	0.62
2:A4:1150:LEU:CD1	5:C4:731:LYS:HG2	2.30	0.62
3:A5:995:VAL:C	11:I5:61:LYS:HB2	2.25	0.62
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG3	2.34	0.62
3:A6:164:LEU:CD1	5:C4:741:THR:O	2.47	0.62
3:A6:1366:LEU:HG	28:Z4:868:GLN:C	2.24	0.62
3:A6:1368:GLN:NE2	28:Z4:825:TYR:HA	2.15	0.62
11:I1:950:LEU:HG	15:M1:606:LEU:HD21	1.80	0.62
11:I1:954:GLU:O	16:N1:399:HIS:HA	1.99	0.62
11:I1:965:ALA:CB	20:R1:164:PRO:CA	2.77	0.62
11:I2:887:GLN:NE2	16:N3:396:ILE:HD12	2.13	0.62
11:I2:925:LEU:HG	15:M3:593:ALA:CA	2.30	0.62
11:I2:1024:PHE:CG	16:N3:406:HIS:CD2	2.88	0.62
11:I2:1029:LEU:HB3	20:R3:174:ARG:CD	2.30	0.62
11:I2:1058:GLY:O	17:O3:277:GLU:HA	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1282:PHE:CZ	29:a2:23[A]:PRO:HG2	2.35	0.62
21:S2:1054:LEU:HA	21:S2:1057:TYR:HD2	1.65	0.62
22:T4:696:MET:HE2	22:T4:750:ILE:HG21	1.80	0.62
23:U3:213:CYS:SG	24:V3:332:ARG:NH1	2.73	0.62
28:Z1:528:ILE:C	30:b1:184:SER:OG	1.99	0.62
30:b1:371:HIS:CE1	30:b1:384:ARG:HD2	2.34	0.62
2:A2:1131:ILE:CA	3:A5:165:PHE:HE2	2.13	0.61
2:A2:1142:PHE:CZ	3:A5:567:VAL:CA	2.82	0.61
2:A2:1148:ARG:HA	3:A5:172:PRO:HB2	1.82	0.61
2:A2:1154:PHE:HA	3:A5:175:GLU:HB3	1.80	0.61
2:A4:880:ALA:HA	6:D3:558:LYS:HE2	1.81	0.61
2:A4:1136:LYS:HE2	3:A6:140:ALA:H	1.58	0.61
2:A4:1137:ALA:C	3:A6:138:LEU:HD13	2.25	0.61
2:A4:1143:LEU:HB2	3:A6:135:PHE:HD2	1.65	0.61
3:A5:157:TRP:CB	5:C2:742:ASP:O	2.48	0.61
3:A5:232:LEU:O	5:C2:740:ARG:NH2	2.32	0.61
3:A5:1409:MSE:HB2	28:Z2:917:ASP:CB	2.30	0.61
3:A6:1309:GLY:C	28:Z4:830:LEU:N	2.41	0.61
3:A6:1319:ILE:CG1	28:Z4:874:ASN:CB	2.78	0.61
3:A6:1366:LEU:CD1	28:Z4:869:HIS:N	2.58	0.61
8:F1:1264:ARG:NH1	17:O2:264:ILE:HD13	2.15	0.61
11:I1:924:ILE:CD1	15:M1:595:MET:CB	2.27	0.61
11:I1:932:VAL:C	15:M1:601:ASP:O	2.43	0.61
11:I1:1051:LYS:HB2	17:O1:290:TYR:H	1.64	0.61
11:I1:1052:LEU:N	17:O1:286:ILE:HB	2.15	0.61
11:I2:957:SER:CA	20:R3:168:LEU:CA	2.67	0.61
11:I2:961:ARG:NH2	16:N3:388:LYS:HB3	2.15	0.61
11:I2:990:GLU:O	17:O3:272:SER:CA	2.48	0.61
11:I2:1104:LEU:HD23	16:N3:433:GLU:HG3	1.65	0.61
11:I2:1107:SER:O	16:N3:439:ARG:CG	2.48	0.61
11:I2:1116:ASP:OD1	12:J2:241:THR:HG23	2.00	0.61
11:I4:1272:TYR:C	26:X3:524:SER:OG	2.32	0.61
11:I5:1644:ARG:HD3	12:J5:275:PHE:CZ	2.35	0.61
21:S1:1032:ILE:CD1	21:S1:1051:ALA:HA	2.29	0.61
21:S3:868:ASP:O	21:S3:869:PHE:C	2.43	0.61
21:S4:1032:ILE:CD1	21:S4:1051:ALA:HA	2.29	0.61
22:T2:851:LYS:HA	22:T2:891:VAL:HG13	1.81	0.61
23:U2:213:CYS:SG	24:V2:332:ARG:NH1	2.73	0.61
26:X3:170:ASN:O	26:X3:174:GLU:HG3	1.99	0.61
26:X4:170:ASN:O	26:X4:174:GLU:HG3	2.00	0.61
28:Z1:527:SER:HA	30:b1:204:GLU:OE1	1.50	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:524:VAL:CG2	30:b3:236:THR:HG22	2.19	0.61
1:A1:832:ASN:OD1	6:D3:298:ASN:HB2	1.85	0.61
2:A2:967:GLU:HA	6:D1:202:GLN:CD	2.24	0.61
2:A2:986:THR:CB	6:D1:497:PHE:CE1	2.82	0.61
1:A3:1049:PHE:CA	6:D3:816:VAL:HG21	2.31	0.61
1:A3:1083:SER:O	6:D3:798:MET:CA	2.47	0.61
1:A3:1221:ILE:CD1	2:A4:642:ARG:N	2.62	0.61
3:A5:996:ASN:O	11:I5:58:ALA:C	2.40	0.61
3:A6:1413:SER:C	28:Z4:963:LYS:CA	2.73	0.61
8:F1:982:PRO:HB2	11:I1:1388:GLU:HG2	1.82	0.61
8:F1:1266:MET:N	17:O2:262:ASP:OD2	2.34	0.61
9:G2:256:GLN:HB3	17:O4:261:LYS:CB	2.30	0.61
9:G2:258:LYS:O	17:O4:259:ASP:OD1	2.18	0.61
11:I1:915:ALA:HB1	15:M1:585:LEU:HD12	1.82	0.61
11:I1:936:LYS:CB	15:M1:605:THR:HB	2.29	0.61
11:I2:951:LYS:CE	16:N3:404:GLU:HG3	2.30	0.61
17:O4:109:PRO:C	18:P4:318:PRO:HB3	2.25	0.61
22:T2:917:ASP:HB2	22:T2:918:PRO:HD2	1.82	0.61
22:T3:875:LEU:HD13	22:T3:919:LEU:HA	1.83	0.61
22:T4:671:LYS:HE2	22:T4:671:LYS:HA	1.80	0.61
28:Z1:125:ASP:OD1	28:Z1:127:SER:OG	2.17	0.61
28:Z2:400:LYS:HB3	30:b2:205:ARG:HH21	1.64	0.61
28:Z3:558:LEU:HA	30:b3:236:THR:H	1.59	0.61
1:A1:1083:SER:O	6:D1:798:MET:HG2	1.99	0.61
2:A2:867:GLU:HB3	6:D1:609:ILE:CG1	2.29	0.61
2:A4:276:GLN:NE2	4:B4:355:PRO:HD3	2.15	0.61
2:A4:1023:ILE:O	2:A4:1024:ASP:CB	2.48	0.61
2:A4:1118:GLN:HE21	3:A6:132:ASP:CG	2.07	0.61
2:A4:1134:GLU:C	3:A6:145:THR:OG1	2.42	0.61
2:A4:1155:ASN:CG	5:C4:735:ILE:HA	2.25	0.61
3:A5:1024:ASP:C	11:I5:68:ILE:HD12	2.22	0.61
11:I1:421:SER:O	11:I1:425:HIS:ND1	2.33	0.61
11:I1:874:LEU:O	17:O1:252:VAL:CB	2.48	0.61
11:I1:936:LYS:HG2	15:M1:609:GLY:CA	2.30	0.61
11:I1:948:ALA:H	17:O1:256:TYR:CB	2.12	0.61
11:I1:949:CYS:SG	17:O1:254:ARG:O	2.58	0.61
11:I1:1673:VAL:H	11:I2:1611:PHE:CA	2.12	0.61
11:I2:959:SER:C	20:R3:166:LEU:CD1	2.65	0.61
11:I2:1041:GLN:NE2	15:M3:614:ASP:C	2.57	0.61
11:I2:1106:LYS:HB3	16:N3:440:GLU:CG	2.29	0.61
11:I2:1109:LEU:HA	17:O3:290:TYR:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1455:ARG:O	11:I2:1459:ASN:ND2	2.33	0.61
11:I4:1279:THR:CB	26:X3:523:LEU:HB3	2.17	0.61
23:U1:213:CYS:SG	24:V1:332:ARG:NH1	2.73	0.61
26:X3:265:ILE:HG21	26:X3:289:ILE:HD11	1.81	0.61
27:Y1:42:THR:O	27:Y1:44:ASN:N	2.31	0.61
28:Z4:410:ASN:ND2	30:b4:252:ALA:N	2.47	0.61
28:Z4:555:LYS:HA	30:b4:234:LEU:N	2.12	0.61
1:A1:1090:SER:HB2	6:D1:800:PRO:HB3	1.81	0.61
2:A2:225:THR:N	6:D1:709:ARG:CZ	2.63	0.61
2:A2:864:ARG:HD3	6:D1:610:ASN:CG	2.24	0.61
2:A2:874:VAL:CG2	6:D1:611:LYS:HZ3	2.12	0.61
2:A2:1150:LEU:CD1	5:C2:731:LYS:HG2	2.30	0.61
1:A3:1332:ARG:NE	6:D3:636:ASP:HB3	2.15	0.61
2:A4:982:THR:HB	6:D3:494:LEU:O	1.97	0.61
2:A4:1131:ILE:CB	3:A6:137:HIS:O	2.47	0.61
3:A5:1372:THR:HB	28:Z2:828:LEU:N	2.15	0.61
3:A5:1372:THR:OG1	28:Z2:828:LEU:CB	2.48	0.61
3:A6:1358:LEU:CD2	28:Z4:878:HIS:CB	2.78	0.61
3:A6:1406:GLY:H	28:Z4:923:LEU:N	1.97	0.61
5:C3:732:LYS:HZ1	11:I2:1225:LYS:HD2	0.78	0.61
11:I1:26:GLU:N	11:I1:26:GLU:OE1	2.33	0.61
11:I1:833:PHE:CD2	17:O1:237:PRO:C	2.78	0.61
11:I1:926:SER:N	15:M1:593:ALA:HB1	2.16	0.61
11:I2:421:SER:O	11:I2:425:HIS:ND1	2.33	0.61
11:I2:1035:GLN:CA	15:M3:626:HIS:CB	2.73	0.61
11:I2:1037:THR:HG21	20:R3:170:LEU:H	1.64	0.61
11:I3:1267:LEU:CD2	26:X1:529:TRP:CE3	2.65	0.61
11:I5:1116:ASP:OD1	12:J5:241:THR:HG23	2.00	0.61
21:S3:1032:ILE:CD1	21:S3:1051:ALA:HA	2.29	0.61
21:S4:1054:LEU:HA	21:S4:1057:TYR:HD2	1.65	0.61
26:X1:515:THR:HG22	26:X1:516:ASN:H	1.65	0.61
28:Z1:410:ASN:HB3	30:b1:251:ILE:CD1	2.18	0.61
2:A2:874:VAL:CG2	6:D1:611:LYS:NZ	2.57	0.61
2:A2:909:LYS:O	6:D1:555:ARG:HD2	1.87	0.61
2:A2:1152:ASP:HB3	3:A5:173:ASN:N	2.13	0.61
2:A2:1164:TYR:N	4:B5:342:ARG:HG3	2.12	0.61
1:A3:1202:GLU:C	2:A4:732:GLN:CB	2.74	0.61
1:A3:1227:PRO:CB	2:A4:728:LYS:NZ	2.37	0.61
1:A3:1396:GLY:HA2	2:A4:888:GLN:HB3	1.83	0.61
2:A4:825:ARG:NH1	6:D3:633:LYS:HG3	2.13	0.61
2:A4:974:PRO:C	6:D3:499:LEU:HB2	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:976:LEU:HD12	6:D3:501:LEU:HD13	1.82	0.61
2:A4:1154:PHE:CZ	4:B6:342:ARG:HB2	2.33	0.61
3:A5:156:ALA:N	5:C2:741:THR:OG1	2.33	0.61
3:A6:180:GLU:HG2	5:C4:744:PHE:CZ	2.34	0.61
3:A6:1362:ALA:C	28:Z4:868:GLN:O	2.43	0.61
3:A6:1416:ARG:HG3	28:Z4:966:CYS:C	2.17	0.61
4:B6:345:LYS:C	5:C4:737:LYS:HE3	2.25	0.61
6:D6:649:VAL:HG12	6:D6:649:VAL:O	2.00	0.61
8:F1:330:GLU:N	8:F1:330:GLU:OE1	2.32	0.61
9:G2:258:LYS:CG	17:O4:259:ASP:OD2	2.45	0.61
11:I1:873:ILE:HG22	17:O1:254:ARG:C	2.24	0.61
11:I1:891:LEU:HG	17:O1:239:GLN:OE1	2.01	0.61
11:I1:891:LEU:HD23	17:O1:239:GLN:HB3	1.83	0.61
11:I1:937:TYR:O	17:O1:258:GLU:CA	2.48	0.61
11:I1:940:LEU:HB2	17:O1:259:ASP:CA	2.30	0.61
11:I1:947:LEU:O	17:O1:253:LEU:HD22	2.00	0.61
11:I1:1048:GLU:HG3	17:O1:288:GLU:N	2.15	0.61
11:I2:26:GLU:N	11:I2:26:GLU:OE1	2.33	0.61
11:I2:846:ILE:HG21	17:O3:247:TRP:HZ2	1.56	0.61
11:I2:887:GLN:O	17:O3:242:ARG:NE	2.32	0.61
11:I2:946:THR:H	17:O3:260:LEU:H	1.05	0.61
11:I2:946:THR:CA	17:O3:257:ALA:HA	2.28	0.61
11:I2:947:LEU:HA	16:N3:407:ALA:CA	2.22	0.61
11:I2:981:VAL:H	20:R3:147:LEU:HD11	0.78	0.61
11:I2:988:GLU:OE1	11:I2:988:GLU:N	2.34	0.61
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD1	2.27	0.61
11:I2:1020:ALA:HB1	16:N3:407:ALA:HA	1.78	0.61
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD2	2.48	0.61
11:I2:1037:THR:HB	15:M3:624:ASN:HD21	1.63	0.61
11:I2:1043:LEU:CG	16:N3:430:ARG:O	2.48	0.61
11:I5:26:GLU:N	11:I5:26:GLU:OE1	2.33	0.61
11:I5:1278:ALA:HB3	26:X2:517:ASP:OD1	2.00	0.61
24:V3:519:LEU:O	24:V3:529:ASN:ND2	2.33	0.61
27:Y3:81:VAL:HG23	27:Y3:111:LEU:HD13	1.81	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:CG	1.88	0.61
28:Z4:527:SER:HA	30:b4:204:GLU:OE1	1.50	0.61
28:Z4:534:ASP:CG	30:b4:183:LEU:H	2.08	0.61
30:b4:371:HIS:CE1	30:b4:384:ARG:HD2	2.35	0.61
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.61
1:A1:873:PRO:CG	6:D3:218:LYS:NZ	2.61	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:878:LEU:CD1	6:D3:276:GLY:HA2	2.29	0.61
1:A1:1052:THR:HA	6:D1:812:VAL:HG11	1.82	0.61
2:A2:874:VAL:HG12	6:D1:608:ILE:HA	1.82	0.61
2:A2:986:THR:HG22	6:D1:504:LYS:CD	2.02	0.61
2:A2:1154:PHE:CD2	3:A5:175:GLU:OE1	2.53	0.61
2:A2:1158:ALA:CA	3:A5:133:LYS:HZ1	2.09	0.61
2:A4:876:ARG:HD3	6:D3:558:LYS:CA	2.10	0.61
2:A4:1141:GLU:OE1	3:A6:564:ASN:C	2.43	0.61
2:A4:1142:PHE:CE2	3:A6:567:VAL:HG23	2.30	0.61
3:A5:232:LEU:HB2	5:C2:740:ARG:N	2.06	0.61
3:A5:993:ASN:HA	11:I5:57:GLU:CA	2.30	0.61
3:A5:996:ASN:HD21	11:I5:58:ALA:CB	2.07	0.61
3:A6:232:LEU:CD2	5:C4:740:ARG:HG2	2.03	0.61
3:A6:1361:ARG:HB3	28:Z4:875:LEU:CB	2.31	0.61
3:A6:1364:GLN:O	28:Z4:849:ALA:CB	2.48	0.61
3:A6:1387:ILE:HG12	28:Z4:867:LYS:CB	2.30	0.61
6:D1:649:VAL:O	6:D1:649:VAL:HG12	2.00	0.61
9:G2:256:GLN:CD	17:O4:262:ASP:H	2.04	0.61
11:I1:890:TYR:HD1	17:O1:237:PRO:C	2.09	0.61
11:I1:913:ALA:N	15:M1:584:GLN:CD	2.58	0.61
11:I1:931:VAL:HG13	15:M1:604:ASN:CB	2.31	0.61
11:I1:987:GLY:N	15:M1:613:ASP:CA	2.38	0.61
11:I1:1227:GLU:N	11:I1:1227:GLU:OE1	2.32	0.61
11:I1:1455:ARG:O	11:I1:1459:ASN:ND2	2.33	0.61
11:I2:924:ILE:HB	15:M3:598:GLU:N	2.10	0.61
11:I2:953:LEU:CA	15:M3:603:SER:HB2	2.07	0.61
11:I2:958:THR:HG1	16:N3:399:HIS:HD2	1.49	0.61
11:I2:963:LEU:HB3	20:R3:166:LEU:O	1.99	0.61
11:I2:1020:ALA:HB2	16:N3:409:ALA:H	1.57	0.61
11:I2:1227:GLU:N	11:I2:1227:GLU:OE1	2.32	0.61
11:I3:1644:ARG:HD3	12:J3:275:PHE:CZ	2.34	0.61
11:I4:817:ASP:HB3	26:X3:498:SER:CB	2.30	0.61
11:I4:1433:THR:HG21	12:J4:270:ARG:HD3	1.82	0.61
11:I4:1644:ARG:HD3	12:J4:275:PHE:CZ	2.34	0.61
11:I5:1279:THR:CG2	26:X2:520:GLU:O	2.34	0.61
21:S1:1054:LEU:HA	21:S1:1057:TYR:HD2	1.65	0.61
21:S2:868:ASP:O	21:S2:869:PHE:C	2.43	0.61
30:b1:53:SER:OG	30:b1:54:THR:N	2.29	0.61
2:A2:276:GLN:NE2	4:B2:355:PRO:HD3	2.15	0.61
1:A3:1227:PRO:O	2:A4:728:LYS:CE	1.64	0.61
2:A4:1148:ARG:HB3	3:A6:174:PRO:CD	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1394:VAL:C	28:Z2:874:ASN:N	2.57	0.61
3:A6:1395:LYS:CD	28:Z4:893:HIS:CB	2.76	0.61
9:G2:256:GLN:HG2	17:O4:262:ASP:CG	2.25	0.61
11:I1:1111:ALA:HB2	16:N1:439:ARG:HH11	1.65	0.61
11:I2:950:LEU:HD23	15:M3:606:LEU:CD2	2.31	0.61
11:I2:953:LEU:CG	15:M3:602:MET:O	2.42	0.61
11:I2:954:GLU:C	16:N3:403:VAL:CG2	2.70	0.61
11:I2:980:ILE:CB	15:M3:618:GLN:CG	2.78	0.61
11:I2:1029:LEU:CD2	20:R3:170:LEU:HD23	2.28	0.61
11:I2:1040:HIS:HD2	20:R3:170:LEU:HD23	1.65	0.61
11:I2:1068:HIS:HD1	16:N3:428:ASP:HA	1.64	0.61
11:I2:1100:ILE:HG22	16:N3:433:GLU:OE2	2.01	0.61
11:I4:421:SER:O	11:I4:425:HIS:ND1	2.33	0.61
11:I5:408:PRO:O	11:I5:409:SER:OG	2.16	0.61
11:I5:421:SER:O	11:I5:425:HIS:ND1	2.33	0.61
22:T1:875:LEU:HD13	22:T1:919:LEU:HA	1.83	0.61
22:T4:875:LEU:HD13	22:T4:919:LEU:HA	1.83	0.61
24:V1:519:LEU:O	24:V1:529:ASN:ND2	2.34	0.61
26:X4:515:THR:HG22	26:X4:516:ASN:H	1.65	0.61
27:Y2:81:VAL:HG23	27:Y2:111:LEU:HD13	1.81	0.61
28:Z4:400:LYS:HB3	30:b4:205:ARG:HH21	1.64	0.61
2:A2:1019:ARG:NH1	6:D1:237:PRO:O	2.33	0.61
2:A2:1019:ARG:CZ	6:D1:237:PRO:O	2.48	0.61
2:A2:1157:TYR:CA	3:A5:176:LEU:CG	2.70	0.61
2:A4:1122:LEU:HB2	3:A6:132:ASP:CA	2.30	0.61
2:A4:1163:TYR:OH	3:A6:137:HIS:CE1	2.53	0.61
3:A5:150:PHE:HD2	5:C2:741:THR:HA	1.66	0.61
3:A5:996:ASN:O	11:I5:59:LEU:N	2.32	0.61
3:A5:1381:ALA:CA	28:Z2:810:ASP:HA	2.30	0.61
3:A5:1395:LYS:H	28:Z2:870:ILE:C	2.04	0.61
3:A6:1316:VAL:CG1	28:Z4:870:ILE:CA	2.79	0.61
6:D2:649:VAL:O	6:D2:649:VAL:HG12	2.00	0.61
6:D7:649:VAL:HG12	6:D7:649:VAL:O	2.00	0.61
9:G1:254:ASN:ND2	17:O2:261:LYS:CD	2.31	0.61
11:I1:934:LEU:H	15:M1:601:ASP:C	2.09	0.61
11:I1:980:ILE:CB	15:M1:618:GLN:HA	2.29	0.61
11:I1:1020:ALA:HB1	16:N1:405:ALA:C	2.24	0.61
11:I2:797:LEU:CD1	17:O3:245:GLU:CA	2.53	0.61
11:I2:882:LYS:HB2	17:O3:249:ARG:N	2.16	0.61
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD22	2.00	0.61
11:I2:1045:PHE:CE1	17:O3:279:ILE:CG2	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1433:THR:HG21	12:J3:270:ARG:HD3	1.82	0.61
11:I4:1455:ARG:O	11:I4:1459:ASN:ND2	2.33	0.61
21:S3:932:HIS:O	21:S3:933:GLU:HB2	2.01	0.61
23:U1:260:GLU:OE2	24:V1:318:HIS:NE2	2.29	0.61
24:V2:519:LEU:O	24:V2:529:ASN:ND2	2.34	0.61
26:X1:265:ILE:HG21	26:X1:289:ILE:HD11	1.81	0.61
2:A2:1136:LYS:CB	3:A5:134:VAL:O	2.48	0.61
2:A4:1141:GLU:C	3:A6:135:PHE:CE2	2.73	0.61
3:A5:1027:HIS:ND1	11:I5:65:LYS:CA	2.64	0.61
3:A5:1414:PHE:HD1	28:Z2:960:CYS:CB	2.12	0.61
3:A6:150:PHE:CE2	5:C4:741:THR:HA	2.36	0.61
3:A6:1360:GLY:CA	28:Z4:885:VAL:CB	2.78	0.61
3:A6:1364:GLN:C	28:Z4:845:ILE:O	2.44	0.61
11:I1:957:SER:CB	20:R1:168:LEU:HA	2.30	0.61
11:I1:979:ALA:N	15:M1:621:ARG:HD3	1.92	0.61
11:I1:1046:HIS:HB2	17:O1:280:GLU:HA	1.82	0.61
11:I2:884:LEU:HD21	15:M3:599:ILE:HD11	1.83	0.61
11:I2:954:GLU:C	16:N3:403:VAL:HG22	2.25	0.61
11:I3:26:GLU:N	11:I3:26:GLU:OE1	2.33	0.61
11:I3:1271:GLU:CB	26:X1:525:ILE:HG22	2.08	0.61
11:I4:988:GLU:N	11:I4:988:GLU:OE1	2.34	0.61
11:I4:1272:TYR:CA	26:X3:525:ILE:CG1	2.74	0.61
22:T2:875:LEU:HD13	22:T2:919:LEU:HA	1.83	0.61
24:V3:300:LEU:HD23	24:V3:388:LEU:HD21	1.82	0.61
28:Z1:407:GLY:O	30:b1:251:ILE:HG12	2.01	0.61
28:Z4:561:GLN:HG3	30:b4:235:LEU:C	2.26	0.61
30:b2:21:TRP:CD1	30:b2:364:CYS:HG	2.18	0.61
1:A1:1018:ASP:OD1	6:D1:819:ASN:ND2	2.32	0.61
2:A2:781:ARG:HD3	6:D1:673:ARG:HH11	1.64	0.61
2:A2:871:ASN:N	6:D1:567:LEU:C	2.59	0.61
2:A2:1138:GLU:HB3	3:A5:167:TRP:CH2	2.36	0.61
1:A3:1201:ARG:CB	2:A4:735:ALA:CB	2.79	0.61
2:A4:781:ARG:HH11	6:D3:673:ARG:HH12	1.49	0.61
2:A4:870:HIS:HD1	6:D3:566:PHE:HA	1.63	0.61
2:A4:1118:GLN:HG2	3:A6:132:ASP:CG	2.25	0.61
2:A4:1127:ALA:CA	3:A6:140:ALA:HA	2.14	0.61
3:A5:164:LEU:O	5:C2:744:PHE:CD1	2.54	0.61
3:A6:147:LEU:O	5:C4:747:PRO:HG3	2.01	0.61
3:A6:163:SER:C	5:C4:744:PHE:CD2	2.78	0.61
3:A6:166:LEU:CB	5:C4:740:ARG:CB	2.39	0.61
3:A6:1310:ARG:HG3	28:Z4:827:GLN:CA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:833:PHE:HD2	17:O1:238:ALA:CA	2.11	0.61
11:I1:1017:VAL:CG1	16:N1:410:MET:CG	2.79	0.61
11:I1:1032:THR:C	15:M1:627:LEU:CD2	2.73	0.61
11:I1:1052:LEU:HB3	16:N1:438:LEU:HD11	0.62	0.61
11:I1:1674:HIS:HA	11:I2:1635:HIS:NE2	2.15	0.61
11:I2:881:ILE:CG2	17:O3:249:ARG:CZ	2.78	0.61
11:I2:978:LYS:HE2	20:R3:152:LYS:C	2.23	0.61
11:I2:1040:HIS:NE2	16:N3:437:VAL:CB	2.64	0.61
11:I2:1051:LYS:CE	17:O3:289:ASP:H	2.11	0.61
11:I3:1455:ARG:O	11:I3:1459:ASN:ND2	2.33	0.61
11:I5:527:THR:O	11:I5:531:ASN:ND2	2.34	0.61
21:S1:868:ASP:O	21:S1:869:PHE:C	2.43	0.61
21:S1:1124:ASP:O	21:S1:1127:GLN:N	2.32	0.61
26:X1:170:ASN:O	26:X1:174:GLU:HG3	2.00	0.61
28:Z3:119:VAL:HB	28:Z3:131:LEU:HB2	1.81	0.61
29:a1:214[B]:THR:CG2	29:a1:252[B]:MET:HE2	2.31	0.61
2:A2:226:PRO:HG2	6:D1:711:PHE:H	1.66	0.60
2:A2:780:GLU:HB2	6:D1:677:GLN:CB	2.25	0.60
2:A2:911:TYR:HE2	6:D1:555:ARG:CZ	2.14	0.60
2:A4:968:SER:CB	6:D3:202:GLN:N	2.38	0.60
2:A4:973:GLU:N	6:D3:205:LEU:N	2.28	0.60
3:A5:1368:GLN:N	28:Z2:829:SER:CB	2.64	0.60
8:F1:1262:HIS:HA	17:O2:259:ASP:HA	1.83	0.60
11:I1:924:ILE:HD13	15:M1:595:MET:HB3	1.56	0.60
11:I1:952:LEU:CG	16:N1:400:LEU:HD21	2.18	0.60
11:I1:962:ILE:HD12	20:R1:165:SER:CA	2.30	0.60
11:I1:963:LEU:HD23	20:R1:168:LEU:HD11	1.81	0.60
11:I1:1055:GLU:CB	17:O1:280:GLU:CB	2.67	0.60
11:I1:1662:ARG:HA	11:I2:1667:GLN:HE22	1.60	0.60
11:I1:1673:VAL:N	11:I2:1611:PHE:CA	2.55	0.60
11:I2:942:HIS:CA	17:O3:259:ASP:C	2.74	0.60
11:I2:958:THR:HB	16:N3:399:HIS:HA	1.83	0.60
11:I2:980:ILE:HD12	20:R3:147:LEU:HB2	1.74	0.60
11:I2:1040:HIS:C	15:M3:616:LEU:HD11	2.26	0.60
11:I2:1045:PHE:O	15:M3:619:ILE:CD1	2.38	0.60
11:I2:1045:PHE:HA	17:O3:280:GLU:HA	1.83	0.60
17:O4:111:TYR:N	18:P1:278:ASN:HB3	2.15	0.60
26:X3:515:THR:HG22	26:X3:516:ASN:H	1.65	0.60
28:Z3:406:ARG:HG2	30:b3:252:ALA:HB1	1.82	0.60
28:Z3:555:LYS:HG3	30:b3:233:TRP:HA	1.83	0.60
30:b1:160:VAL:HB	30:b1:187:GLY:HA3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1204:TRP:CE3	2:A2:757:LEU:HD13	2.34	0.60
2:A2:1132:PRO:CD	3:A5:158:ALA:O	2.34	0.60
2:A2:1157:TYR:HB3	3:A5:176:LEU:HG	1.82	0.60
2:A4:172:PRO:CG	6:D3:781:ARG:NE	2.64	0.60
3:A6:1330:VAL:CG2	28:Z4:913:ILE:O	2.45	0.60
3:A6:1401:VAL:C	28:Z4:922:LEU:CB	2.74	0.60
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB3	2.29	0.60
11:I1:884:LEU:CD2	16:N1:396:ILE:CB	2.44	0.60
11:I1:895:ARG:NH2	17:O1:233:THR:HG21	2.13	0.60
11:I1:922:ASP:CB	15:M1:592:LEU:HD23	2.31	0.60
11:I1:1109:LEU:CG	16:N1:438:LEU:CA	2.57	0.60
11:I1:1112:SER:H	16:N1:439:ARG:CB	2.09	0.60
11:I2:527:THR:O	11:I2:531:ASN:ND2	2.34	0.60
11:I2:895:ARG:HD2	17:O3:234:LEU:CD1	2.30	0.60
11:I2:1106:LYS:O	16:N3:440:GLU:N	2.32	0.60
11:I4:1277:LEU:HA	26:X3:519:ILE:N	2.16	0.60
23:U4:213:CYS:SG	24:V4:332:ARG:NH1	2.73	0.60
24:V4:519:LEU:O	24:V4:529:ASN:ND2	2.34	0.60
28:Z1:406:ARG:HG2	30:b1:252:ALA:HB1	1.82	0.60
28:Z2:555:LYS:HG3	30:b2:233:TRP:HA	1.83	0.60
29:a2:214[B]:THR:CG2	29:a2:252[B]:MET:HE2	2.31	0.60
1:A1:785:ILE:CD1	1:A1:825:ARG:HG2	2.31	0.60
2:A2:989:MSE:HE3	6:D1:240:ASP:C	2.12	0.60
3:A5:1312:ARG:NH2	28:Z2:838:GLN:HA	2.15	0.60
3:A5:1369:ILE:HG12	28:Z2:832:PHE:N	2.14	0.60
3:A6:160:ILE:CD1	5:C4:743:LEU:HD11	2.30	0.60
3:A6:166:LEU:CD1	5:C4:740:ARG:CB	2.76	0.60
3:A6:232:LEU:HD22	5:C4:740:ARG:HG3	1.80	0.60
6:D3:270:THR:HG23	6:D3:296:PHE:CD2	2.36	0.60
6:D7:270:THR:HG23	6:D7:296:PHE:CD2	2.37	0.60
9:G2:256:GLN:HB2	17:O4:257:ALA:O	2.02	0.60
11:I1:937:TYR:HD2	15:M1:602:MET:HE1	1.66	0.60
11:I1:947:LEU:HD12	16:N1:407:ALA:O	2.01	0.60
11:I1:991:THR:CG2	15:M1:611:LYS:H	2.13	0.60
11:I1:1021:ILE:N	16:N1:409:ALA:CB	2.48	0.60
11:I1:1051:LYS:HA	17:O1:290:TYR:CD2	2.36	0.60
11:I2:1029:LEU:N	20:R3:172:ASP:N	2.49	0.60
11:I2:1109:LEU:HB2	16:N3:441:PHE:HB2	1.82	0.60
11:I5:1455:ARG:O	11:I5:1459:ASN:ND2	2.33	0.60
17:O4:110:LEU:CD2	18:P4:321:ILE:CG1	2.69	0.60
26:X2:240:PHE:O	26:X2:241:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b4:21:TRP:CD1	30:b4:364:CYS:HG	2.18	0.60
1:A1:1220:PRO:C	2:A2:645:PHE:HD1	2.08	0.60
2:A2:908:LEU:HD23	6:D1:601:PHE:CB	2.31	0.60
1:A3:1399:ARG:HB3	2:A4:884:ARG:CZ	2.31	0.60
2:A4:1020:ILE:HA	2:A4:1023:ILE:CD1	2.32	0.60
3:A5:1395:LYS:N	28:Z2:874:ASN:H	1.98	0.60
3:A5:1403:MSE:CB	28:Z2:920:SER:H	2.03	0.60
6:D1:270:THR:HG23	6:D1:296:PHE:CD2	2.36	0.60
8:F1:1091:SER:OG	17:O2:238:ALA:HA	2.01	0.60
8:F1:1265:GLN:OE1	17:O2:259:ASP:C	2.44	0.60
11:I1:527:THR:O	11:I1:531:ASN:ND2	2.34	0.60
11:I1:833:PHE:O	17:O1:241:SER:CB	2.45	0.60
11:I1:841:PHE:CZ	17:O1:243:LEU:CG	2.83	0.60
11:I1:899:LEU:O	17:O1:232:LYS:HE2	1.84	0.60
11:I1:945:LEU:HG	17:O1:257:ALA:C	2.27	0.60
11:I1:991:THR:HG22	15:M1:611:LYS:H	1.65	0.60
11:I1:1048:GLU:CG	17:O1:288:GLU:N	2.65	0.60
11:I2:1433:THR:HG21	12:J2:270:ARG:HD3	1.82	0.60
11:I3:1268:LYS:O	26:X1:525:ILE:HA	2.01	0.60
21:S2:932:HIS:O	21:S2:933:GLU:HB2	2.01	0.60
21:S4:868:ASP:O	21:S4:869:PHE:C	2.43	0.60
28:Z3:534:ASP:CA	30:b3:164:CYS:HB3	2.21	0.60
28:Z4:407:GLY:O	30:b4:251:ILE:HG12	2.01	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
29:a4:214[B]:THR:CG2	29:a4:252[B]:MET:HE2	2.31	0.60
2:A2:1152:ASP:CB	3:A5:173:ASN:C	2.73	0.60
1:A3:1083:SER:O	6:D3:798:MET:CB	2.48	0.60
2:A4:781:ARG:CD	6:D3:633:LYS:HE2	2.29	0.60
2:A4:864:ARG:NH1	6:D3:610:ASN:CB	2.63	0.60
2:A4:976:LEU:HD11	6:D3:501:LEU:CD2	2.16	0.60
2:A4:976:LEU:HD23	6:D3:501:LEU:O	1.99	0.60
2:A4:1138:GLU:C	3:A6:130:ILE:CD1	2.48	0.60
2:A4:1243:SER:O	2:A4:1245:ASP:N	2.35	0.60
3:A5:233:THR:HG22	5:C2:737:LYS:HD2	1.41	0.60
3:A6:220:VAL:CG1	5:C4:739:MET:CA	2.80	0.60
3:A6:1312:ARG:HG2	28:Z4:833:ASP:CB	2.30	0.60
3:A6:1399:ARG:NH2	28:Z4:946:ASP:N	2.50	0.60
4:B6:345:LYS:CB	5:C4:737:LYS:NZ	2.64	0.60
11:I1:948:ALA:HB3	17:O1:256:TYR:CB	2.31	0.60
11:I1:953:LEU:H	16:N1:403:VAL:HG13	1.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:999:SER:HB2	17:O1:264:ILE:HG21	1.84	0.60
11:I1:1069:SER:HG	16:N1:427:VAL:N	2.00	0.60
11:I1:1433:THR:HG21	12:J1:270:ARG:HD3	1.82	0.60
11:I2:849:LEU:CD1	17:O3:247:TRP:CE3	2.84	0.60
11:I2:936:LYS:HE3	15:M3:612:PRO:HG3	1.84	0.60
11:I2:978:LYS:HG2	20:R3:151:LYS:HD3	1.84	0.60
11:I2:1038:ILE:HD13	15:M3:620:VAL:CB	2.26	0.60
17:O4:110:LEU:C	18:P1:278:ASN:ND2	2.58	0.60
21:S1:868:ASP:O	21:S1:870:ASP:N	2.35	0.60
21:S1:932:HIS:O	21:S1:933:GLU:HB2	2.01	0.60
28:Z1:609:GLY:O	28:Z1:613:ILE:HG22	2.02	0.60
28:Z2:119:VAL:HB	28:Z2:131:LEU:HB2	1.82	0.60
28:Z4:609:GLY:O	28:Z4:613:ILE:HG22	2.02	0.60
1:A1:870:HIS:O	6:D3:279:HIS:HB2	1.96	0.60
2:A2:876:ARG:CD	6:D1:558:LYS:CG	2.43	0.60
2:A2:968:SER:OG	6:D1:200:HIS:CB	2.42	0.60
2:A2:981:PRO:HD2	6:D1:504:LYS:N	2.06	0.60
2:A2:1136:LYS:N	3:A5:138:LEU:CD2	2.63	0.60
2:A4:973:GLU:HG3	6:D3:192:TYR:OH	2.02	0.60
2:A4:1139:ILE:C	3:A6:130:ILE:HG22	2.24	0.60
2:A4:1152:ASP:OD2	3:A6:171:HIS:HB3	2.01	0.60
3:A5:230:LYS:CA	5:C2:739:MET:H	2.09	0.60
3:A5:993:ASN:O	11:I5:57:GLU:HA	2.01	0.60
3:A5:993:ASN:HA	11:I5:57:GLU:HA	1.83	0.60
3:A5:995:VAL:O	11:I5:61:LYS:HB2	1.98	0.60
3:A5:1415:PHE:N	28:Z2:960:CYS:CA	2.65	0.60
3:A6:785:ILE:CD1	3:A6:825:ARG:HG2	2.32	0.60
11:I1:955:LYS:HZ3	17:O1:249:ARG:NH2	2.00	0.60
11:I1:1024:PHE:O	20:R1:172:ASP:OD1	2.18	0.60
11:I1:1108:PRO:HB2	16:N1:442:GLU:HB3	1.83	0.60
11:I2:932:VAL:HG13	15:M3:612:PRO:HB3	1.82	0.60
11:I2:944:GLU:HB3	17:O3:256:TYR:HD1	1.64	0.60
11:I2:962:ILE:HB	15:M3:596:ILE:HG23	1.84	0.60
11:I2:1021:ILE:HA	16:N3:406:HIS:ND1	2.08	0.60
11:I2:1048:GLU:HB3	17:O3:284:LYS:HA	1.83	0.60
21:S1:1010:GLU:HA	21:S1:1013:LEU:HG	1.83	0.60
21:S3:1124:ASP:O	21:S3:1127:GLN:N	2.32	0.60
22:T3:813:VAL:O	22:T3:817:MET:HG2	2.02	0.60
22:T3:917:ASP:HB2	22:T3:918:PRO:HD2	1.82	0.60
28:Z2:555:LYS:HA	30:b2:234:LEU:N	2.12	0.60
2:A2:226:PRO:HD3	6:D1:708:ASP:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:782:VAL:HA	6:D1:677:GLN:HA	1.83	0.60
2:A2:826:ASN:HA	6:D1:633:LYS:CB	2.20	0.60
2:A4:865:ALA:HB2	6:D3:567:LEU:CD1	2.32	0.60
2:A4:1139:ILE:N	3:A6:130:ILE:HG21	2.16	0.60
3:A5:785:ILE:CD1	3:A5:825:ARG:HG2	2.31	0.60
3:A5:1312:ARG:CD	28:Z2:832:PHE:CB	2.66	0.60
3:A5:1399:ARG:CG	28:Z2:912:ASP:CB	2.78	0.60
3:A6:1309:GLY:CA	28:Z4:830:LEU:CB	2.80	0.60
6:D4:649:VAL:HG12	6:D4:649:VAL:O	2.00	0.60
8:F1:1095:TYR:N	17:O2:237:PRO:HB3	2.16	0.60
8:F1:1137:GLN:HB2	17:O2:245:GLU:CA	2.31	0.60
8:F1:1138:TRP:CD2	17:O2:244:GLU:CD	2.79	0.60
8:F1:1203:TRP:HZ2	17:O2:248:SER:HB3	1.52	0.60
8:F1:1262:HIS:CE1	17:O2:259:ASP:H	2.19	0.60
11:I1:797:LEU:CD1	17:O1:245:GLU:N	2.64	0.60
11:I1:836:VAL:CG1	17:O1:244:GLU:HB2	2.28	0.60
11:I1:955:LYS:CD	16:N1:397:GLU:O	2.50	0.60
11:I1:1040:HIS:HD1	15:M1:623:LEU:HD13	1.58	0.60
11:I1:1255:HIS:ND1	11:I1:1255:HIS:O	2.35	0.60
11:I2:828:VAL:CG1	17:O3:237:PRO:HG2	2.23	0.60
11:I2:881:ILE:HG22	17:O3:249:ARG:NH2	2.16	0.60
11:I2:896:PRO:HD3	17:O3:233:THR:O	2.01	0.60
11:I2:951:LYS:HE2	16:N3:404:GLU:HG3	1.79	0.60
11:I2:978:LYS:O	20:R3:151:LYS:CG	2.49	0.60
11:I2:1049:LEU:CA	15:M3:622:VAL:HG11	2.31	0.60
11:I2:1114:VAL:N	16:N3:435:ALA:HB2	2.14	0.60
11:I3:527:THR:O	11:I3:531:ASN:ND2	2.34	0.60
11:I3:1277:LEU:CD2	26:X1:518:ASP:C	2.75	0.60
11:I5:988:GLU:N	11:I5:988:GLU:OE1	2.34	0.60
21:S2:933:GLU:OE2	21:S2:934:HIS:HB3	2.02	0.60
21:S3:1010:GLU:HA	21:S3:1013:LEU:HG	1.83	0.60
24:V4:300:LEU:HD23	24:V4:388:LEU:HD21	1.82	0.60
26:X2:536:LYS:O	26:X2:540:THR:OG1	2.20	0.60
28:Z4:522:ASN:OD1	30:b4:241:PRO:CB	2.47	0.60
1:A1:1229:VAL:HB	2:A2:725:GLU:HB3	1.83	0.60
2:A2:1023:ILE:O	2:A2:1024:ASP:CB	2.48	0.60
2:A2:1150:LEU:HD11	5:C2:731:LYS:HG3	1.84	0.60
2:A4:879:LEU:HB2	6:D3:564:ASN:ND2	2.15	0.60
2:A4:970:PHE:HA	6:D3:192:TYR:CE2	2.36	0.60
2:A4:1094:ILE:HG12	6:D4:759:GLN:HE21	1.63	0.60
2:A4:1139:ILE:O	3:A6:135:PHE:CG	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1157:TYR:CD1	3:A6:134:VAL:N	2.70	0.60
3:A6:1316:VAL:CB	28:Z4:871:HIS:CA	2.80	0.60
8:F1:1094:GLY:HA3	17:O2:237:PRO:O	2.02	0.60
11:I1:921:GLU:HA	15:M1:596:ILE:HG13	1.83	0.60
11:I1:950:LEU:HD23	15:M1:606:LEU:CD2	2.32	0.60
11:I1:1037:THR:HG22	20:R1:173:LEU:CB	1.96	0.60
11:I1:1107:SER:OG	16:N1:437:VAL:HA	2.01	0.60
11:I2:797:LEU:CB	17:O3:245:GLU:HG2	2.31	0.60
11:I2:873:ILE:CG2	17:O3:258:GLU:HG3	2.26	0.60
11:I2:890:TYR:HB2	17:O3:242:ARG:CG	2.28	0.60
11:I2:928:LEU:CD1	20:R3:151:LYS:CE	2.71	0.60
11:I2:945:LEU:HG	17:O3:257:ALA:C	1.92	0.60
11:I2:1020:ALA:HB3	16:N3:410:MET:HB3	1.84	0.60
11:I2:1051:LYS:HB2	17:O3:289:ASP:H	1.67	0.60
11:I3:988:GLU:N	11:I3:988:GLU:OE1	2.34	0.60
11:I4:527:THR:O	11:I4:531:ASN:ND2	2.34	0.60
11:I4:1272:TYR:H	26:X3:528:GLU:CB	2.14	0.60
21:S4:932:HIS:O	21:S4:933:GLU:HB2	2.01	0.60
22:T2:813:VAL:O	22:T2:817:MET:HG2	2.02	0.60
26:X3:240:PHE:O	26:X3:241:GLU:HG3	2.02	0.60
1:A1:1200:ARG:NH2	2:A2:642:ARG:NH2	2.50	0.60
1:A1:1332:ARG:CB	6:D1:636:ASP:HB3	2.23	0.60
2:A2:1136:LYS:HA	3:A5:134:VAL:HG12	0.73	0.60
2:A4:876:ARG:CB	6:D3:563:GLU:O	2.48	0.60
2:A4:1160:GLN:O	3:A6:180:GLU:CG	2.50	0.60
3:A5:209:VAL:CG2	5:C2:744:PHE:O	2.50	0.60
3:A5:232:LEU:HD13	5:C2:740:ARG:C	2.25	0.60
3:A5:1101:GLN:CD	11:I5:33:THR:HG21	2.27	0.60
3:A6:157:TRP:CZ2	5:C4:747:PRO:CB	2.85	0.60
3:A6:232:LEU:HD23	5:C4:737:LYS:O	2.00	0.60
3:A6:1384:ALA:O	28:Z4:863:ASP:C	2.43	0.60
3:A6:1411:ARG:NH1	28:Z4:968:ARG:CB	2.63	0.60
6:D3:649:VAL:HG12	6:D3:649:VAL:O	2.00	0.60
6:D7:530:ARG:CZ	11:I3:182:VAL:H	2.15	0.60
11:I2:850:ILE:HG21	15:M3:598:GLU:CG	2.27	0.60
11:I2:948:ALA:CA	17:O3:253:LEU:HA	2.32	0.60
11:I2:1044:GLY:CA	17:O3:275:LEU:CD1	2.65	0.60
11:I2:1054:ILE:H	17:O3:282:LYS:H	0.62	0.60
11:I2:1255:HIS:ND1	11:I2:1255:HIS:O	2.35	0.60
11:I5:1255:HIS:ND1	11:I5:1255:HIS:O	2.35	0.60
17:O4:111:TYR:CZ	18:P4:321:ILE:CD1	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:933:GLU:OE2	21:S3:934:HIS:HB3	2.02	0.60
21:S4:1010:GLU:HA	21:S4:1013:LEU:HG	1.83	0.60
26:X3:536:LYS:O	26:X3:540:THR:OG1	2.20	0.60
26:X4:240:PHE:O	26:X4:241:GLU:HG3	2.02	0.60
28:Z1:561:GLN:CG	30:b1:236:THR:C	2.75	0.60
28:Z1:561:GLN:NE2	30:b1:237:LEU:CD1	2.60	0.60
1:A1:1052:THR:CG2	6:D1:812:VAL:CG1	2.78	0.60
2:A2:869:ALA:C	6:D1:548:LEU:HD21	2.27	0.60
2:A2:878:LEU:HD13	6:D1:607:PRO:CD	2.15	0.60
1:A3:1099:GLN:N	11:I2:1414:CYS:SG	2.75	0.60
2:A4:861:GLN:CA	6:D3:607:PRO:CG	2.80	0.60
2:A4:866:SER:C	6:D3:605:THR:HG22	2.19	0.60
2:A4:1132:PRO:CA	3:A6:145:THR:HG22	1.84	0.60
2:A4:1134:GLU:H	3:A6:145:THR:N	1.99	0.60
3:A5:994:VAL:O	11:I5:61:LYS:HB2	2.02	0.60
3:A5:1380:ALA:N	28:Z2:816:THR:H	2.00	0.60
3:A6:1412:MSE:CB	28:Z4:965:TYR:CB	2.75	0.60
6:D6:270:THR:HG23	6:D6:296:PHE:CD2	2.37	0.60
8:F2:1049:GLN:HE22	17:O4:237:PRO:CG	2.14	0.60
9:G2:258:LYS:C	17:O4:259:ASP:CG	2.69	0.60
11:I1:833:PHE:CD2	17:O1:238:ALA:N	2.70	0.60
11:I1:932:VAL:CG1	15:M1:605:THR:HG22	2.32	0.60
11:I1:950:LEU:CA	16:N1:407:ALA:HB2	2.30	0.60
11:I1:981:VAL:N	15:M1:621:ARG:HD2	1.77	0.60
11:I2:945:LEU:HB3	17:O3:260:LEU:N	1.90	0.60
11:I3:1271:GLU:CD	26:X1:504:ILE:CD1	2.75	0.60
11:I3:1275:SER:CB	26:X1:522:MET:C	2.48	0.60
11:I4:1275:SER:CB	26:X3:521:TRP:O	2.41	0.60
17:O3:151:LEU:HD21	18:P3:325:ILE:CG1	0.93	0.60
21:S2:868:ASP:O	21:S2:870:ASP:N	2.35	0.60
26:X1:534:ILE:O	26:X1:538:ILE:HG12	2.02	0.60
28:Z2:561:GLN:CG	30:b2:236:THR:C	2.75	0.60
28:Z3:407:GLY:O	30:b3:251:ILE:HG12	2.01	0.60
30:b4:384:ARG:HH21	30:b4:389:THR:HG21	1.67	0.60
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CB	2.60	0.59
1:A1:1224:PRO:HG3	2:A2:731:ILE:HB	1.84	0.59
1:A1:1398:LYS:O	2:A2:884:ARG:NH1	2.36	0.59
2:A4:781:ARG:CD	6:D3:633:LYS:CE	2.79	0.59
2:A4:861:GLN:HA	6:D3:607:PRO:HB3	1.83	0.59
3:A6:1369:ILE:HG12	28:Z4:826:TYR:C	2.25	0.59
8:F1:982:PRO:CG	11:I1:1388:GLU:CG	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:896:PRO:N	17:O1:233:THR:CA	2.62	0.59
11:I1:959:SER:OG	16:N1:395:GLU:HB2	2.01	0.59
11:I1:1036:PRO:CD	16:N1:441:PHE:CE2	2.84	0.59
11:I1:1540:LYS:CD	11:I2:1739:GLU:HB3	2.31	0.59
11:I1:1608:SER:O	12:J2:299:GLY:HA2	2.01	0.59
11:I2:877:ILE:HB	17:O3:252:VAL:C	2.27	0.59
11:I2:918:SER:OG	16:N3:389:PHE:N	2.35	0.59
11:I2:977:ASN:N	20:R3:147:LEU:C	2.54	0.59
11:I3:1277:LEU:CB	26:X1:522:MET:HB2	2.32	0.59
21:S2:1010:GLU:HA	21:S2:1013:LEU:HG	1.82	0.59
21:S4:933:GLU:OE2	21:S4:934:HIS:HB3	2.02	0.59
22:T4:813:VAL:O	22:T4:817:MET:HG2	2.02	0.59
24:V2:525:ASP:O	24:V2:528:LEU:HB2	2.02	0.59
26:X3:244:TYR:O	26:X3:248:LEU:HG	2.02	0.59
27:Y3:42:THR:O	27:Y3:44:ASN:N	2.31	0.59
28:Z1:526:ARG:HD3	30:b1:207:GLY:HA3	1.84	0.59
28:Z3:125:ASP:OD1	28:Z3:127:SER:OG	2.17	0.59
28:Z3:609:GLY:O	28:Z3:613:ILE:HG22	2.02	0.59
30:b2:160:VAL:HB	30:b2:187:GLY:HA3	1.83	0.59
1:A1:831:ALA:C	6:D3:298:ASN:HB2	2.22	0.59
2:A2:223:THR:CA	6:D1:709:ARG:HH22	2.14	0.59
2:A2:983:LEU:HD22	6:D1:497:PHE:CZ	2.37	0.59
2:A2:988:ARG:H	6:D1:500:LYS:HZ1	1.47	0.59
2:A2:1020:ILE:HA	2:A2:1023:ILE:CD1	2.32	0.59
2:A2:1125:LEU:HD12	3:A5:133:LYS:H	1.66	0.59
2:A4:1057:PHE:CD2	2:A4:1096:ILE:HD13	2.37	0.59
3:A5:996:ASN:O	11:I5:61:LYS:N	2.14	0.59
3:A6:166:LEU:CD1	5:C4:740:ARG:HB2	2.29	0.59
3:A6:1309:GLY:C	28:Z4:830:LEU:CA	2.75	0.59
3:A6:1319:ILE:HB	28:Z4:874:ASN:CB	2.31	0.59
3:A6:1393:THR:CG2	28:Z4:904:PHE:C	2.74	0.59
6:D5:649:VAL:HG12	6:D5:649:VAL:O	2.00	0.59
9:G1:262:SER:HB3	17:O2:256:TYR:CE1	2.37	0.59
11:I1:887:GLN:CB	16:N1:393:ILE:HD13	2.16	0.59
11:I1:980:ILE:O	15:M1:618:GLN:CA	2.50	0.59
11:I1:1035:GLN:HG2	15:M1:624:ASN:O	2.03	0.59
11:I1:1037:THR:CB	20:R1:173:LEU:CG	2.49	0.59
11:I1:1044:GLY:H	15:M1:616:LEU:CD1	2.15	0.59
11:I1:1061:ASP:CA	17:O1:279:ILE:CD1	2.80	0.59
11:I1:1665:LEU:HA	11:I2:1668:HIS:N	2.17	0.59
11:I1:1668:HIS:CD2	11:I2:1669:ARG:HA	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:896:PRO:HB3	17:O3:233:THR:CA	2.29	0.59
11:I2:950:LEU:HD22	16:N3:410:MET:HE1	1.73	0.59
11:I2:982:GLN:H	15:M3:621:ARG:HH12	1.48	0.59
11:I2:1106:LYS:HG3	16:N3:439:ARG:HH22	1.67	0.59
26:X4:244:TYR:O	26:X4:248:LEU:HG	2.02	0.59
26:X4:534:ILE:O	26:X4:538:ILE:HG12	2.02	0.59
28:Z3:561:GLN:HG3	30:b3:235:LEU:C	2.26	0.59
30:b2:384:ARG:HH21	30:b2:389:THR:HG21	1.67	0.59
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CA	2.64	0.59
2:A2:968:SER:HA	6:D1:202:GLN:CA	2.33	0.59
2:A2:1057:PHE:CD2	2:A2:1096:ILE:HD13	2.37	0.59
1:A3:862:LEU:HD11	1:A3:904:GLN:HB3	1.83	0.59
1:A3:1052:THR:CB	6:D3:816:VAL:CG2	2.78	0.59
2:A4:985:ALA:HB1	6:D3:501:LEU:H	1.68	0.59
2:A4:1139:ILE:CA	3:A6:134:VAL:HB	2.22	0.59
3:A5:999:SER:C	11:I5:62:GLU:CB	2.75	0.59
3:A5:1053:ARG:HE	11:I5:99:ARG:HG3	1.65	0.59
3:A5:1367:THR:O	28:Z2:825:TYR:CB	2.51	0.59
3:A6:159:SER:CB	5:C4:743:LEU:O	2.50	0.59
3:A6:1367:THR:CG2	28:Z4:848:SER:O	2.50	0.59
3:A6:1402:ASP:N	28:Z4:922:LEU:CB	2.62	0.59
9:G1:255:LEU:CD1	17:O2:258:GLU:N	2.65	0.59
9:G1:267:GLY:HA2	16:N2:414:ALA:O	2.02	0.59
11:I1:895:ARG:HG2	17:O1:233:THR:N	1.67	0.59
11:I1:913:ALA:HB3	15:M1:584:GLN:CD	2.27	0.59
11:I1:976:ARG:NH1	15:M1:622:VAL:CA	2.47	0.59
11:I1:1068:HIS:CE1	16:N1:431:VAL:CB	2.76	0.59
11:I1:1487:ASP:OD1	11:I1:1488:THR:N	2.35	0.59
11:I2:1031:ALA:N	20:R3:173:LEU:O	2.20	0.59
11:I2:1051:LYS:CE	17:O3:288:GLU:HB2	2.31	0.59
11:I4:1255:HIS:ND1	11:I4:1255:HIS:O	2.35	0.59
21:S1:933:GLU:OE2	21:S1:934:HIS:HB3	2.02	0.59
21:S2:1124:ASP:O	21:S2:1127:GLN:N	2.32	0.59
24:V1:297:LEU:HD23	24:V1:300:LEU:HD12	1.84	0.59
28:Z2:245:ILE:HB	28:Z2:255:GLN:HB2	1.84	0.59
1:A1:1399:ARG:NE	2:A2:887:GLU:HB2	2.18	0.59
2:A2:982:THR:HG22	6:D1:494:LEU:CA	2.21	0.59
2:A2:1157:TYR:CB	3:A5:176:LEU:HG	2.32	0.59
1:A3:785:ILE:CD1	1:A3:825:ARG:HG2	2.31	0.59
2:A4:235:TYR:HE1	4:B4:347:LEU:CB	2.12	0.59
2:A4:1136:LYS:O	3:A6:138:LEU:HD13	1.53	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1149:THR:CA	5:C4:730:HIS:C	2.10	0.59
3:A5:996:ASN:OD1	11:I5:54:LYS:O	2.20	0.59
3:A5:1092:ASN:CA	11:I5:33:THR:HG22	2.26	0.59
3:A5:1368:GLN:N	28:Z2:841:ALA:O	2.36	0.59
3:A5:1379:GLY:O	28:Z2:811:LEU:O	2.21	0.59
3:A5:1411:ARG:NH2	26:X2:743:PHE:C	2.60	0.59
3:A6:1384:ALA:O	28:Z4:863:ASP:N	2.35	0.59
6:D2:270:THR:HG23	6:D2:296:PHE:CD2	2.37	0.59
6:D4:270:THR:HG23	6:D4:296:PHE:CD2	2.37	0.59
9:G2:256:GLN:CB	17:O4:261:LYS:H	2.16	0.59
11:I1:931:VAL:HG23	15:M1:603:SER:CB	2.28	0.59
11:I1:1014:ASN:N	16:N1:411:GLN:O	2.36	0.59
11:I1:1036:PRO:HD3	16:N1:441:PHE:CE2	2.38	0.59
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG11	1.85	0.59
11:I1:1665:LEU:CA	11:I2:1667:GLN:C	2.65	0.59
11:I2:947:LEU:N	17:O3:260:LEU:HD22	2.16	0.59
11:I2:951:LYS:HG3	16:N3:403:VAL:HB	1.83	0.59
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE2	2.50	0.59
11:I4:817:ASP:H	26:X3:498:SER:HB3	1.67	0.59
11:I4:1270:LYS:HE2	26:X3:530:ARG:HE	1.65	0.59
11:I5:921:GLU:N	11:I5:921:GLU:OE1	2.35	0.59
17:O4:113:PRO:O	18:P4:325:ILE:HG22	2.02	0.59
21:S1:950:HIS:HE1	21:S1:995:MET:HE1	1.67	0.59
21:S2:1083:TRP:CE3	21:S2:1083:TRP:HA	2.38	0.59
24:V4:525:ASP:O	24:V4:528:LEU:HB2	2.02	0.59
26:X2:162:VAL:O	26:X2:166:ASP:HB3	2.03	0.59
26:X4:536:LYS:O	26:X4:540:THR:OG1	2.20	0.59
28:Z1:555:LYS:HB2	30:b1:233:TRP:CE3	2.38	0.59
28:Z4:772:GLN:CB	30:b4:136:PHE:HE1	2.16	0.59
30:b3:384:ARG:HH21	30:b3:389:THR:HG21	1.67	0.59
1:A1:875:LEU:CD1	6:D3:276:GLY:C	2.75	0.59
2:A2:1019:ARG:HH22	6:D1:237:PRO:C	2.10	0.59
2:A2:1164:TYR:CD2	4:B5:342:ARG:HG2	2.35	0.59
1:A3:1201:ARG:HB3	2:A4:735:ALA:CB	2.32	0.59
2:A4:225:THR:C	6:D3:709:ARG:CZ	2.37	0.59
2:A4:988:ARG:CD	6:D3:500:LYS:HG2	2.24	0.59
3:A5:999:SER:CB	11:I5:64:LYS:HG3	2.28	0.59
3:A6:165:PHE:CE2	5:C4:743:LEU:HD11	2.37	0.59
3:A6:1406:GLY:O	28:Z4:924:ARG:O	1.93	0.59
6:D5:270:THR:HG23	6:D5:296:PHE:CD2	2.37	0.59
11:I1:408:PRO:O	11:I1:409:SER:OG	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1037:THR:N	15:M1:623:LEU:CD2	2.12	0.59
11:I2:408:PRO:O	11:I2:409:SER:OG	2.16	0.59
11:I2:966:TRP:O	20:R3:153:GLN:CB	2.37	0.59
11:I2:1037:THR:CB	15:M3:624:ASN:HD21	2.15	0.59
11:I2:1061:ASP:CG	17:O3:278:GLU:HB2	2.27	0.59
11:I3:421:SER:O	11:I3:425:HIS:ND1	2.33	0.59
11:I4:1487:ASP:OD1	11:I4:1488:THR:N	2.35	0.59
11:I5:1487:ASP:OD1	11:I5:1488:THR:N	2.35	0.59
21:S3:1083:TRP:HA	21:S3:1083:TRP:CE3	2.38	0.59
22:T1:917:ASP:HB2	22:T1:918:PRO:HD2	1.82	0.59
22:T3:842:ARG:O	22:T3:846:MET:HG3	2.02	0.59
26:X1:240:PHE:O	26:X1:241:GLU:HG3	2.02	0.59
28:Z1:560:ASN:ND2	30:b1:211:ILE:HG21	2.14	0.59
28:Z2:556:ASN:CG	30:b2:166:LEU:HD22	2.27	0.59
28:Z2:772:GLN:CB	30:b2:136:PHE:HE1	2.16	0.59
28:Z3:401:THR:CB	30:b3:253:SER:O	2.25	0.59
28:Z3:527:SER:CA	30:b3:204:GLU:CG	2.59	0.59
1:A1:1018:ASP:CG	6:D1:819:ASN:HB2	2.28	0.59
1:A1:1333:ARG:C	6:D1:637:LYS:NZ	2.58	0.59
2:A2:225:THR:HG21	6:D1:706:HIS:CB	2.30	0.59
2:A2:867:GLU:HG2	6:D1:593:ARG:NH2	2.13	0.59
2:A2:1152:ASP:HB3	3:A5:171:HIS:C	2.26	0.59
2:A4:985:ALA:CB	6:D3:501:LEU:H	2.16	0.59
2:A4:1136:LYS:HE2	3:A6:137:HIS:O	2.03	0.59
2:A4:1150:LEU:HD11	5:C4:731:LYS:HG3	1.84	0.59
3:A6:234:LEU:HG	5:C4:737:LYS:C	2.25	0.59
3:A6:1378:GLY:HA3	28:Z4:816:THR:CB	2.33	0.59
5:C1:732:LYS:HE2	11:I1:1228:GLU:HB3	1.83	0.59
11:I1:925:LEU:HB3	15:M1:596:ILE:CD1	2.33	0.59
11:I1:938:CYS:O	17:O1:260:LEU:C	2.44	0.59
11:I1:950:LEU:HB3	16:N1:406:HIS:HB3	1.84	0.59
11:I1:1043:LEU:CD1	20:R1:170:LEU:HD22	2.32	0.59
11:I1:1610:VAL:CG1	11:I2:1669:ARG:CZ	2.80	0.59
11:I1:1677:LYS:CE	11:I2:1543:LEU:CD1	2.80	0.59
11:I2:981:VAL:CB	20:R3:147:LEU:CG	2.68	0.59
11:I2:1037:THR:HG21	20:R3:173:LEU:CD2	2.31	0.59
11:I2:1487:ASP:OD1	11:I2:1488:THR:N	2.35	0.59
11:I3:1255:HIS:ND1	11:I3:1255:HIS:O	2.35	0.59
17:O2:111:TYR:H	18:P2:325:ILE:HG23	1.58	0.59
21:S1:1083:TRP:CE3	21:S1:1083:TRP:HA	2.38	0.59
21:S4:1083:TRP:HA	21:S4:1083:TRP:CE3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:842:ARG:O	22:T1:846:MET:HG3	2.02	0.59
24:V3:297:LEU:HD23	24:V3:300:LEU:HD12	1.84	0.59
26:X4:162:VAL:O	26:X4:166:ASP:HB3	2.03	0.59
28:Z1:556:ASN:CG	30:b1:166:LEU:HD22	2.28	0.59
28:Z1:772:GLN:CB	30:b1:136:PHE:HE1	2.16	0.59
28:Z3:245:ILE:HB	28:Z3:255:GLN:HB2	1.84	0.59
28:Z3:561:GLN:CG	30:b3:236:THR:C	2.75	0.59
2:A2:780:GLU:CB	6:D1:677:GLN:CA	2.73	0.59
2:A2:869:ALA:CB	6:D1:583:ILE:HG21	2.32	0.59
2:A2:986:THR:HG23	6:D1:497:PHE:CE1	2.38	0.59
2:A2:1136:LYS:H	3:A5:138:LEU:CD2	1.92	0.59
1:A3:1088:ASN:HA	6:D3:808:ASN:CB	2.33	0.59
1:A3:1220:PRO:HG3	2:A4:732:GLN:NE2	2.18	0.59
2:A4:872:ALA:N	2:A4:873:PRO:HD2	2.18	0.59
2:A4:983:LEU:HG	6:D3:528:PHE:CD1	2.19	0.59
2:A4:1141:GLU:OE1	3:A6:563:THR:C	2.46	0.59
3:A5:1135:ARG:NE	5:C5:743:LEU:HD12	2.18	0.59
3:A6:1392:ARG:HH22	28:Z4:862:GLN:CB	2.15	0.59
9:G1:260:THR:C	17:O2:256:TYR:CE1	2.81	0.59
9:G1:270:ARG:CD	16:N2:414:ALA:HA	2.32	0.59
11:I1:951:LYS:HE2	16:N1:404:GLU:CD	2.27	0.59
11:I1:1067:PHE:N	16:N1:430:ARG:HG2	2.18	0.59
11:I1:1607:GLN:NE2	11:I2:1736:LEU:CG	2.63	0.59
11:I1:1670:GLY:O	11:I2:1671:LEU:HD21	1.92	0.59
11:I2:834:SER:HB3	17:O3:237:PRO:O	2.03	0.59
11:I2:980:ILE:C	15:M3:618:GLN:CG	2.68	0.59
11:I2:991:THR:HG22	15:M3:611:LYS:HB2	1.83	0.59
11:I2:1061:ASP:HB2	17:O3:278:GLU:N	2.17	0.59
21:S4:868:ASP:O	21:S4:870:ASP:N	2.35	0.59
22:T4:842:ARG:O	22:T4:846:MET:HG3	2.02	0.59
28:Z1:245:ILE:HB	28:Z1:255:GLN:HB2	1.84	0.59
28:Z3:556:ASN:CG	30:b3:166:LEU:HD22	2.27	0.59
28:Z4:596:PHE:CZ	28:Z4:704:SER:HA	2.38	0.59
2:A4:975:GLU:O	6:D3:501:LEU:C	2.45	0.59
2:A4:1163:TYR:CE2	3:A6:137:HIS:NE2	2.70	0.59
3:A6:1312:ARG:CZ	28:Z4:841:ALA:CB	2.76	0.59
3:A6:1363:ASP:HA	28:Z4:869:HIS:N	2.17	0.59
3:A6:1370:ALA:CB	28:Z4:864:PHE:CB	2.81	0.59
3:A6:1375:THR:CB	28:Z4:818:PRO:HA	2.13	0.59
3:A6:1399:ARG:HH22	28:Z4:945:VAL:C	2.10	0.59
8:F1:171:PHE:O	8:F1:180:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1138:TRP:H	17:O2:244:GLU:C	2.11	0.59
8:F2:230:GLU:N	8:F2:230:GLU:OE1	2.35	0.59
9:G1:263:MET:SD	16:N2:411:GLN:HB3	2.42	0.59
11:I1:1108:PRO:O	16:N1:438:LEU:O	2.20	0.59
11:I1:1669:ARG:HA	11:I2:1668:HIS:CD2	2.38	0.59
11:I2:953:LEU:HD11	15:M3:606:LEU:N	2.17	0.59
11:I2:990:GLU:O	17:O3:271:GLU:CA	2.50	0.59
11:I2:1037:THR:HG22	15:M3:623:LEU:HD22	1.84	0.59
11:I2:1055:GLU:O	17:O3:278:GLU:N	2.36	0.59
11:I3:1267:LEU:HD13	26:X1:497:ARG:HH11	1.65	0.59
24:V4:426:TYR:O	24:V4:464:ARG:NH2	2.36	0.59
26:X2:534:ILE:O	26:X2:538:ILE:HG12	2.02	0.59
28:Z2:410:ASN:HD22	30:b2:251:ILE:C	2.11	0.59
28:Z2:527:SER:C	30:b2:184:SER:OG	2.46	0.59
28:Z2:561:GLN:HG3	30:b2:235:LEU:C	2.26	0.59
28:Z2:609:GLY:O	28:Z2:613:ILE:HG22	2.02	0.59
28:Z3:329:TRP:HB3	28:Z3:355:TRP:HB3	1.85	0.59
28:Z4:91:LYS:NZ	28:Z4:142:ALA:O	2.30	0.59
28:Z4:410:ASN:HD22	30:b4:251:ILE:C	2.11	0.59
30:b1:384:ARG:HH21	30:b1:389:THR:HG21	1.67	0.59
1:A1:1220:PRO:O	2:A2:646:ILE:HA	2.03	0.59
2:A2:1094:ILE:HD13	6:D2:759:GLN:CD	2.17	0.59
2:A2:1243:SER:O	2:A2:1245:ASP:N	2.35	0.59
3:A5:1374:ALA:CB	28:Z2:823:ALA:CA	2.36	0.59
6:D7:179:ASP:OD1	11:I3:49:PRO:CB	2.32	0.59
6:D7:531:LEU:CA	11:I3:181:GLN:CB	2.54	0.59
8:F1:982:PRO:HB2	11:I1:1388:GLU:CD	2.28	0.59
11:I1:967:SER:CA	20:R1:153:GLN:OE1	2.51	0.59
11:I1:1032:THR:C	15:M1:627:LEU:HD21	2.22	0.59
11:I2:896:PRO:O	17:O3:232:LYS:O	2.21	0.59
11:I2:921:GLU:HA	15:M3:596:ILE:H	1.67	0.59
11:I2:1024:PHE:CA	16:N3:406:HIS:ND1	2.63	0.59
11:I3:1487:ASP:OD1	11:I3:1488:THR:N	2.35	0.59
11:I4:921:GLU:N	11:I4:921:GLU:OE1	2.36	0.59
21:S3:868:ASP:O	21:S3:870:ASP:N	2.35	0.59
22:T1:813:VAL:O	22:T1:817:MET:HG2	2.02	0.59
24:V2:297:LEU:HD23	24:V2:300:LEU:HD12	1.84	0.59
26:X4:258:LEU:HD22	26:X4:292:LEU:HD22	1.85	0.59
28:Z1:527:SER:C	30:b1:184:SER:OG	2.46	0.59
28:Z1:555:LYS:HG3	30:b1:233:TRP:HA	1.83	0.59
28:Z1:561:GLN:HG3	30:b1:235:LEU:C	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:329:TRP:HB3	28:Z4:355:TRP:HB3	1.85	0.59
30:b4:160:VAL:HB	30:b4:187:GLY:HA3	1.83	0.59
1:A1:1226:LEU:HA	2:A2:728:LYS:CD	2.30	0.59
2:A2:1131:ILE:CA	3:A5:165:PHE:CE2	2.83	0.59
3:A5:221:SER:C	5:C2:738:ASP:O	2.46	0.59
3:A5:999:SER:O	11:I5:64:LYS:HE3	2.02	0.59
8:F2:1832:ASN:OD1	8:F2:1833:ARG:N	2.36	0.59
9:G1:254:ASN:OD1	15:M2:605:THR:HB	2.03	0.59
11:I1:935:GLY:HA3	15:M1:604:ASN:C	2.21	0.59
11:I1:937:TYR:O	17:O1:258:GLU:C	2.46	0.59
11:I1:1031:ALA:O	20:R1:173:LEU:HD12	2.02	0.59
11:I1:1043:LEU:HA	16:N1:430:ARG:CG	2.32	0.59
11:I2:951:LYS:H	16:N3:407:ALA:HB2	1.68	0.59
11:I2:955:LYS:HZ1	16:N3:400:LEU:CD1	2.16	0.59
11:I2:955:LYS:CG	16:N3:403:VAL:HG23	2.33	0.59
11:I2:1066:LEU:HG	16:N3:430:ARG:HB3	1.84	0.59
11:I3:1433:THR:HG21	12:J3:270:ARG:CD	2.33	0.59
21:S3:950:HIS:HE1	21:S3:995:MET:HE1	1.67	0.59
23:U4:71:GLU:OE1	23:U4:75:TRP:NE1	2.36	0.59
24:V2:152:ALA:HB1	24:V2:160:LEU:CD1	2.33	0.59
27:Y4:219:SER:HG	27:Y4:312:TRP:CD1	2.21	0.59
28:Z1:534:ASP:CG	30:b1:183:LEU:H	2.08	0.59
28:Z2:555:LYS:HB2	30:b2:233:TRP:CE3	2.37	0.59
28:Z3:438:GLU:CG	30:b3:333:HIS:HE1	2.16	0.59
2:A2:1137:ALA:HB1	3:A5:564:ASN:C	2.29	0.58
2:A2:1156:ASP:CG	3:A5:168:ASP:N	2.61	0.58
1:A3:1225:PRO:CD	2:A4:728:LYS:N	2.61	0.58
2:A4:826:ASN:O	2:A4:860:GLU:HG3	2.02	0.58
2:A4:987:LYS:HG3	6:D3:497:PHE:HZ	1.68	0.58
2:A4:1142:PHE:HB2	3:A6:130:ILE:HG23	1.79	0.58
3:A5:157:TRP:NE1	5:C2:747:PRO:CA	2.53	0.58
3:A6:1323:VAL:CG1	28:Z4:911:GLU:C	2.56	0.58
6:D3:738:SER:OG	6:D3:740:GLU:OE1	2.21	0.58
8:F1:230:GLU:N	8:F1:230:GLU:OE1	2.35	0.58
11:I1:879:VAL:C	17:O1:247:TRP:N	2.44	0.58
11:I1:1042:LEU:HA	15:M1:616:LEU:HD23	1.74	0.58
11:I2:841:PHE:O	15:M3:591:ASP:CB	2.51	0.58
11:I2:1034:ASP:OD1	15:M3:627:LEU:CA	2.38	0.58
11:I4:1270:LYS:HD2	26:X3:530:ARG:HG3	1.82	0.58
11:I4:1274:HIS:HE1	26:X3:531:LEU:HG	1.50	0.58
11:I5:1279:THR:CG2	26:X2:521:TRP:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1433:THR:HG21	12:J5:270:ARG:CD	2.33	0.58
24:V2:180:LEU:HD21	24:V2:185:LEU:HD13	1.85	0.58
24:V4:152:ALA:HB1	24:V4:160:LEU:CD1	2.32	0.58
24:V4:297:LEU:HD23	24:V4:300:LEU:HD12	1.84	0.58
26:X3:534:ILE:O	26:X3:538:ILE:HG12	2.02	0.58
28:Z1:558:LEU:N	30:b1:235:LEU:O	2.36	0.58
28:Z3:527:SER:C	30:b3:184:SER:OG	2.46	0.58
28:Z3:534:ASP:CG	30:b3:183:LEU:H	2.08	0.58
28:Z3:596:PHE:CZ	28:Z3:704:SER:HA	2.38	0.58
28:Z4:527:SER:C	30:b4:184:SER:OG	2.46	0.58
28:Z4:555:LYS:HB2	30:b4:233:TRP:CE3	2.38	0.58
28:Z4:558:LEU:HA	30:b4:236:THR:H	1.59	0.58
28:Z4:561:GLN:CG	30:b4:236:THR:C	2.75	0.58
30:b1:304:LEU:HD22	30:b1:305:PRO:HD2	1.85	0.58
2:A2:826:ASN:O	2:A2:860:GLU:HG3	2.02	0.58
2:A2:980:ARG:HH22	6:D1:503:LEU:HD12	1.68	0.58
2:A4:173:ASN:ND2	6:D3:762:ARG:HB3	2.15	0.58
2:A4:908:LEU:HD23	6:D3:601:PHE:CA	2.32	0.58
2:A4:1148:ARG:NE	3:A6:131:PRO:HG3	2.18	0.58
3:A5:999:SER:HB2	11:I5:64:LYS:HE3	1.82	0.58
3:A5:1026:PRO:CG	11:I5:73:TYR:CB	2.74	0.58
3:A5:1026:PRO:O	11:I5:71:GLU:O	2.20	0.58
3:A6:1135:ARG:NE	5:C6:743:LEU:HD12	2.18	0.58
3:A6:1351:MSE:HE1	28:Z4:912:ASP:O	0.79	0.58
3:A6:1372:THR:OG1	28:Z4:822:SER:C	2.41	0.58
3:A6:1390:LEU:HD13	28:Z4:867:LYS:HA	1.85	0.58
6:D5:738:SER:OG	6:D5:740:GLU:OE1	2.22	0.58
11:I1:926:SER:OG	20:R1:156:GLY:HA2	2.02	0.58
11:I1:937:TYR:O	17:O1:258:GLU:HA	2.03	0.58
11:I1:985:ARG:N	15:M1:612:PRO:C	2.61	0.58
11:I1:1055:GLU:C	17:O1:277:GLU:O	2.41	0.58
11:I1:1363:GLU:OE1	11:I1:1366:ARG:NH2	2.36	0.58
11:I1:1606:GLU:O	11:I2:1735:PHE:CD2	2.35	0.58
11:I4:1274:HIS:HD1	26:X3:531:LEU:HD11	1.65	0.58
21:S1:932:HIS:O	21:S1:933:GLU:CB	2.51	0.58
21:S2:950:HIS:HE1	21:S2:995:MET:HE1	1.68	0.58
24:V1:152:ALA:HB1	24:V1:160:LEU:CD1	2.33	0.58
24:V1:525:ASP:O	24:V1:528:LEU:HB2	2.02	0.58
26:X2:163:LYS:HD2	26:X2:172:PHE:CZ	2.38	0.58
26:X3:258:LEU:HD22	26:X3:292:LEU:HD22	1.85	0.58
28:Z2:407:GLY:O	30:b2:251:ILE:HG12	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:560:ASN:ND2	30:b3:211:ILE:HG21	2.15	0.58
30:b3:44:CYS:HB2	30:b3:61:LEU:HD11	1.85	0.58
1:A1:1222:ALA:CA	2:A2:645:PHE:CE1	2.84	0.58
2:A2:968:SER:HG	6:D1:200:HIS:N	2.01	0.58
2:A4:227:SER:HB3	6:D3:708:ASP:O	2.01	0.58
3:A5:1029:ILE:N	11:I5:67:LYS:O	2.33	0.58
6:D7:530:ARG:O	11:I3:181:GLN:HB3	1.99	0.58
8:F1:197:ASP:OD1	8:F1:295:GLN:NE2	2.36	0.58
11:I1:1030:ARG:CB	20:R1:175:GLN:OE1	2.42	0.58
11:I1:1038:ILE:H	20:R1:169:GLY:CA	2.12	0.58
11:I1:1043:LEU:C	16:N1:430:ARG:CG	2.75	0.58
11:I1:1052:LEU:O	17:O1:286:ILE:CG1	2.52	0.58
11:I1:1433:THR:HG21	12:J1:270:ARG:CD	2.33	0.58
11:I2:842:ASN:O	15:M3:591:ASP:OD1	2.21	0.58
11:I2:1020:ALA:O	16:N3:406:HIS:CB	2.51	0.58
11:I4:1272:TYR:O	26:X3:524:SER:N	2.30	0.58
21:S1:429:SER:HB2	21:S1:436:SER:CB	2.34	0.58
21:S4:932:HIS:O	21:S4:933:GLU:CB	2.51	0.58
23:U4:13:THR:O	23:U4:17:ASP:N	2.24	0.58
25:W1:217:LEU:HD22	25:W1:218:LEU:H	1.69	0.58
25:W2:217:LEU:HD22	25:W2:218:LEU:H	1.69	0.58
25:W4:205:ASP:HB3	25:W4:227:GLN:HB3	1.85	0.58
26:X1:163:LYS:HD2	26:X1:172:PHE:CZ	2.38	0.58
26:X3:453:ASP:HB3	27:Y3:225:GLY:O	2.04	0.58
28:Z2:329:TRP:HB3	28:Z2:355:TRP:HB3	1.85	0.58
28:Z2:596:PHE:CZ	28:Z2:704:SER:HA	2.38	0.58
28:Z3:772:GLN:CB	30:b3:136:PHE:HE1	2.16	0.58
1:A3:1048:ARG:HH21	6:D3:815:GLU:CG	2.15	0.58
2:A4:1129:PRO:O	3:A6:142:GLU:HG3	1.73	0.58
3:A5:150:PHE:HE2	5:C2:742:ASP:CA	2.16	0.58
3:A5:1027:HIS:N	11:I5:66:LEU:HG	2.18	0.58
3:A6:165:PHE:CE1	5:C4:743:LEU:HD22	2.38	0.58
8:F1:190:ARG:NH1	8:F1:281:THR:OG1	2.36	0.58
8:F1:1266:MET:CA	17:O2:265:ASN:ND2	2.67	0.58
8:F1:1832:ASN:OD1	8:F1:1833:ARG:N	2.36	0.58
11:I1:833:PHE:HD2	17:O1:238:ALA:N	2.02	0.58
11:I1:874:LEU:HA	17:O1:252:VAL:HA	1.86	0.58
11:I1:931:VAL:HG23	15:M1:604:ASN:N	2.07	0.58
11:I2:841:PHE:CA	15:M3:591:ASP:CG	2.74	0.58
11:I2:846:ILE:CG2	17:O3:247:TRP:HH2	2.08	0.58
11:I2:988:GLU:O	15:M3:611:LYS:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB2	1.98	0.58
11:I2:1065:SER:HA	17:O3:274:GLY:HA3	1.85	0.58
11:I2:1363:GLU:OE1	11:I2:1366:ARG:NH2	2.36	0.58
11:I3:1363:GLU:OE1	11:I3:1366:ARG:NH2	2.36	0.58
11:I5:1363:GLU:OE1	11:I5:1366:ARG:NH2	2.36	0.58
17:O3:101:ASN:CA	18:P3:326:GLN:HE21	2.10	0.58
21:S2:991:LYS:O	21:S2:995:MET:HB2	2.04	0.58
21:S3:932:HIS:O	21:S3:933:GLU:CB	2.51	0.58
22:T3:885:ARG:HH11	22:T3:885:ARG:CG	2.11	0.58
24:V3:152:ALA:HB1	24:V3:160:LEU:CD1	2.33	0.58
24:V3:180:LEU:HD21	24:V3:185:LEU:HD13	1.85	0.58
26:X1:244:TYR:O	26:X1:248:LEU:HG	2.02	0.58
28:Z1:329:TRP:HB3	28:Z1:355:TRP:HB3	1.85	0.58
28:Z3:555:LYS:HB2	30:b3:233:TRP:CE3	2.38	0.58
30:b3:160:VAL:HB	30:b3:187:GLY:HA3	1.83	0.58
1:A1:1332:ARG:NH1	6:D1:682:ASN:N	2.30	0.58
2:A2:983:LEU:HG	6:D1:554:LEU:HD23	1.83	0.58
2:A2:988:ARG:C	6:D1:500:LYS:HE2	2.25	0.58
2:A2:1136:LYS:N	3:A5:138:LEU:HD21	2.13	0.58
2:A4:904:GLN:NE2	6:D3:604:ASP:H	1.93	0.58
2:A4:982:THR:OG1	6:D3:494:LEU:O	2.21	0.58
3:A5:993:ASN:O	11:I5:57:GLU:CG	2.20	0.58
3:A5:997:ASP:N	11:I5:61:LYS:CB	2.67	0.58
3:A5:1022:SER:O	11:I5:95:LYS:CB	2.39	0.58
3:A5:1415:PHE:C	28:Z2:962:LYS:H	2.11	0.58
3:A6:165:PHE:CE2	5:C4:743:LEU:CD1	2.81	0.58
3:A6:1309:GLY:H	28:Z4:828:LEU:C	2.12	0.58
6:D7:570:VAL:HG11	6:D7:598:ILE:HD12	1.85	0.58
6:D7:738:SER:OG	6:D7:740:GLU:OE1	2.21	0.58
8:F2:197:ASP:OD1	8:F2:295:GLN:NE2	2.36	0.58
8:F2:1089:PRO:O	17:O4:245:GLU:O	2.22	0.58
9:G1:263:MET:HB3	17:O2:260:LEU:CD1	2.33	0.58
11:I1:840:LEU:HD22	17:O1:247:TRP:CD1	2.39	0.58
11:I1:924:ILE:HG23	15:M1:591:ASP:O	2.03	0.58
11:I1:947:LEU:HD12	16:N1:411:GLN:HB3	1.84	0.58
11:I2:978:LYS:HZ1	20:R3:153:GLN:C	2.12	0.58
11:I2:978:LYS:HE2	20:R3:153:GLN:C	2.27	0.58
11:I2:991:THR:H	15:M3:611:LYS:CB	2.07	0.58
11:I2:1024:PHE:N	16:N3:406:HIS:ND1	2.51	0.58
11:I2:1059:PRO:HB2	17:O3:274:GLY:CA	2.29	0.58
11:I2:1108:PRO:HG3	16:N3:443:GLU:H	0.75	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1433:THR:HG21	12:J2:270:ARG:CD	2.33	0.58
11:I3:921:GLU:N	11:I3:921:GLU:OE1	2.35	0.58
11:I3:1274:HIS:O	26:X1:534:ILE:HG22	2.03	0.58
23:U4:343:ILE:HD13	23:U4:344:ARG:N	2.19	0.58
24:V3:525:ASP:O	24:V3:528:LEU:HB2	2.02	0.58
26:X2:244:TYR:O	26:X2:248:LEU:HG	2.02	0.58
27:Y1:123:LEU:HB2	27:Y1:139:ALA:HB3	1.86	0.58
27:Y2:123:LEU:HB2	27:Y2:139:ALA:HB3	1.86	0.58
28:Z4:245:ILE:HB	28:Z4:255:GLN:HB2	1.84	0.58
28:Z4:526:ARG:HD3	30:b4:207:GLY:HA3	1.84	0.58
2:A2:871:ASN:HB2	6:D1:567:LEU:O	2.03	0.58
2:A4:172:PRO:HB3	6:D3:781:ARG:NE	2.16	0.58
2:A4:873:PRO:HD2	6:D3:569:CYS:SG	2.43	0.58
2:A4:880:ALA:HB2	6:D3:562:GLY:O	1.96	0.58
2:A4:982:THR:CA	6:D3:502:LEU:CD2	2.67	0.58
3:A5:1366:LEU:HA	28:Z2:829:SER:C	2.28	0.58
3:A5:1398:LYS:NZ	28:Z2:876:LEU:O	2.04	0.58
3:A6:1399:ARG:NH1	28:Z4:945:VAL:O	2.36	0.58
8:F1:581:PHE:O	8:F1:585:THR:OG1	2.21	0.58
8:F1:982:PRO:CB	11:I1:1388:GLU:CG	2.81	0.58
8:F2:581:PHE:O	8:F2:585:THR:OG1	2.21	0.58
11:I1:937:TYR:C	17:O1:258:GLU:HA	2.29	0.58
11:I1:949:CYS:C	16:N1:403:VAL:HG12	2.25	0.58
11:I1:957:SER:HA	20:R1:166:LEU:CD1	2.34	0.58
11:I1:1017:VAL:HG11	17:O1:260:LEU:HD21	1.85	0.58
11:I1:1018:LYS:H	16:N1:412:ASN:N	2.02	0.58
11:I1:1602:PHE:HB2	11:I2:1738:TYR:OH	2.04	0.58
11:I1:1607:GLN:HB3	12:J2:298:PHE:CE1	2.38	0.58
11:I2:887:GLN:OE1	16:N3:393:ILE:HG12	2.04	0.58
11:I2:998:ALA:CB	17:O3:267:ALA:HB1	2.29	0.58
11:I4:1363:GLU:OE1	11:I4:1366:ARG:NH2	2.36	0.58
17:O4:109:PRO:CB	18:P4:318:PRO:HB2	2.24	0.58
21:S2:932:HIS:O	21:S2:933:GLU:CB	2.51	0.58
21:S3:947:GLU:CD	21:S3:947:GLU:H	2.12	0.58
23:U3:211:ILE:HG23	24:V3:321:VAL:HG11	1.85	0.58
24:V2:426:TYR:O	24:V2:464:ARG:NH2	2.36	0.58
26:X3:162:VAL:O	26:X3:166:ASP:HB3	2.03	0.58
26:X4:163:LYS:HD2	26:X4:172:PHE:CZ	2.38	0.58
27:Y3:123:LEU:HB2	27:Y3:139:ALA:HB3	1.86	0.58
28:Z1:410:ASN:ND2	30:b1:252:ALA:N	2.47	0.58
28:Z1:596:PHE:CZ	28:Z1:704:SER:HA	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:549:LYS:CB	30:b2:182:PRO:HD3	2.34	0.58
28:Z3:549:LYS:CB	30:b3:182:PRO:HD3	2.34	0.58
28:Z4:556:ASN:CG	30:b4:166:LEU:HD22	2.28	0.58
30:b4:44:CYS:HB2	30:b4:61:LEU:HD11	1.85	0.58
2:A2:223:THR:C	6:D1:709:ARG:HH22	2.12	0.58
1:A3:1083:SER:H	6:D3:798:MET:HE2	1.68	0.58
1:A3:1084:ARG:CB	6:D3:794:THR:HA	2.33	0.58
2:A4:870:HIS:HB3	6:D3:548:LEU:HA	1.84	0.58
2:A4:874:VAL:HG23	6:D3:568:ARG:C	2.19	0.58
2:A4:976:LEU:HB3	6:D3:472:PHE:CG	2.39	0.58
2:A4:1134:GLU:C	3:A6:145:THR:CB	2.76	0.58
3:A5:1030:THR:HA	11:I5:70:GLU:O	2.04	0.58
3:A5:1053:ARG:NE	11:I5:99:ARG:HG3	2.18	0.58
3:A5:1395:LYS:C	28:Z2:873:LEU:CB	2.75	0.58
3:A6:160:ILE:HD12	5:C4:743:LEU:CD1	2.33	0.58
3:A6:1405:LEU:N	28:Z4:919:PHE:C	2.62	0.58
3:A6:1411:ARG:HH11	28:Z4:968:ARG:CA	2.17	0.58
7:E4:91:VAL:O	7:E4:91:VAL:HG22	2.04	0.58
8:F1:1137:GLN:HG3	17:O2:249:ARG:N	2.10	0.58
11:I1:921:GLU:OE1	11:I1:921:GLU:N	2.35	0.58
11:I1:951:LYS:HG3	16:N1:400:LEU:C	2.26	0.58
11:I1:955:LYS:HD2	17:O1:249:ARG:NH2	2.09	0.58
11:I1:983:LEU:CD1	15:M1:621:ARG:NH2	2.63	0.58
11:I1:987:GLY:H	15:M1:614:ASP:N	2.01	0.58
11:I1:1018:LYS:CE	16:N1:413:VAL:C	2.22	0.58
11:I1:1114:VAL:HG22	16:N1:435:ALA:HB3	1.82	0.58
11:I2:887:GLN:CD	16:N3:393:ILE:HG12	2.29	0.58
11:I2:938:CYS:O	17:O3:264:ILE:C	2.46	0.58
11:I2:1045:PHE:CB	15:M3:619:ILE:CD1	2.82	0.58
11:I3:814:SER:O	26:X1:496:THR:HG23	2.04	0.58
11:I3:1272:TYR:CZ	26:X1:524:SER:HB3	2.33	0.58
21:S3:184:ILE:HD11	21:S3:201:VAL:CG2	2.34	0.58
21:S3:991:LYS:O	21:S3:995:MET:HB2	2.04	0.58
25:W1:205:ASP:HB3	25:W1:227:GLN:HB3	1.85	0.58
26:X1:453:ASP:HB3	27:Y1:225:GLY:O	2.04	0.58
28:Z2:438:GLU:CG	30:b2:333:HIS:HE1	2.16	0.58
28:Z4:555:LYS:CB	30:b4:213:ASP:H	2.17	0.58
28:Z4:561:GLN:HG3	30:b4:236:THR:N	2.17	0.58
30:b2:304:LEU:HD22	30:b2:305:PRO:HD2	1.85	0.58
1:A1:1098:ARG:NH2	11:I1:1421:ARG:NH2	2.51	0.58
2:A2:864:ARG:C	6:D1:608:ILE:HG12	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1143:LEU:HD12	3:A5:131:PRO:CB	2.09	0.58
2:A4:861:GLN:HB2	6:D3:606:LYS:NZ	2.19	0.58
2:A4:1019:ARG:NH1	6:D3:238:ALA:C	2.61	0.58
3:A5:1398:LYS:HB2	28:Z2:874:ASN:HA	1.86	0.58
3:A6:165:PHE:HE2	5:C4:743:LEU:HD21	1.49	0.58
3:A6:1359:LEU:HD23	28:Z4:873:LEU:C	2.29	0.58
3:A6:1368:GLN:HB2	28:Z4:845:ILE:HA	1.85	0.58
5:C1:732:LYS:NZ	11:I1:1225:LYS:CG	2.66	0.58
7:E5:91:VAL:HG22	7:E5:91:VAL:O	2.04	0.58
8:F1:1093:LEU:CD2	17:O2:241:SER:HA	2.32	0.58
8:F2:190:ARG:NH1	8:F2:281:THR:OG1	2.36	0.58
9:G1:263:MET:CA	17:O2:256:TYR:OH	2.51	0.58
11:I1:934:LEU:O	15:M1:606:LEU:CA	2.51	0.58
11:I1:951:LYS:C	17:O1:253:LEU:HD13	2.25	0.58
11:I1:953:LEU:HD23	15:M1:599:ILE:O	2.04	0.58
11:I1:1040:HIS:HD2	20:R1:170:LEU:HA	1.68	0.58
11:I1:1048:GLU:CB	17:O1:284:LYS:O	2.51	0.58
11:I1:1064:LYS:HB2	16:N1:427:VAL:HG11	1.83	0.58
11:I2:965:ALA:CB	20:R3:165:SER:H	2.17	0.58
11:I2:1039:ALA:CA	20:R3:170:LEU:CD2	2.52	0.58
17:O3:101:ASN:CG	18:P3:322:LYS:HG2	2.22	0.58
21:S4:429:SER:HB2	21:S4:436:SER:CB	2.34	0.58
22:T2:842:ARG:O	22:T2:846:MET:HG3	2.02	0.58
28:Z1:185:GLY:O	28:Z1:196:PRO:HA	2.04	0.58
28:Z1:555:LYS:CB	30:b1:213:ASP:H	2.17	0.58
28:Z2:524:VAL:C	30:b2:236:THR:HG21	2.29	0.58
28:Z3:524:VAL:C	30:b3:236:THR:HG21	2.29	0.58
30:b4:304:LEU:HD22	30:b4:305:PRO:HD2	1.85	0.58
2:A2:780:GLU:HB3	6:D1:677:GLN:HB2	1.86	0.58
2:A2:877:ALA:N	6:D1:563:GLU:HA	2.19	0.58
2:A2:1134:GLU:CG	3:A5:146:LYS:HG3	2.15	0.58
2:A2:1148:ARG:HB2	3:A5:173:ASN:HB2	1.86	0.58
1:A3:1054:SER:OG	6:D3:810:ARG:CA	2.46	0.58
2:A4:1129:PRO:O	3:A6:142:GLU:CA	2.51	0.58
2:A4:1139:ILE:CA	3:A6:134:VAL:CB	2.60	0.58
2:A4:1154:PHE:HD2	3:A6:175:GLU:CD	2.12	0.58
3:A6:234:LEU:CA	5:C4:737:LYS:O	2.52	0.58
3:A6:1398:LYS:HD3	28:Z4:886:LEU:C	2.27	0.58
6:D2:570:VAL:HG11	6:D2:598:ILE:HD12	1.86	0.58
6:D2:738:SER:OG	6:D2:740:GLU:OE1	2.22	0.58
6:D4:570:VAL:HG11	6:D4:598:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E7:91:VAL:HG22	7:E7:91:VAL:O	2.04	0.58
8:F1:982:PRO:CG	11:I1:1388:GLU:HG2	2.33	0.58
11:I1:957:SER:CA	20:R1:166:LEU:CD1	2.81	0.58
11:I1:1045:PHE:CE1	16:N1:434:LEU:C	2.65	0.58
11:I2:1031:ALA:C	20:R3:173:LEU:O	2.47	0.58
11:I4:799:THR:O	11:I4:831:HIS:NE2	2.37	0.58
15:M3:608:LYS:HZ2	17:O3:271:GLU:HG2	1.68	0.58
17:O4:109:PRO:CD	18:P4:318:PRO:CB	2.82	0.58
21:S2:429:SER:HB2	21:S2:436:SER:CB	2.34	0.58
21:S3:349:CYS:HA	21:S3:412:PHE:CE2	2.38	0.58
21:S4:991:LYS:O	21:S4:995:MET:HB2	2.04	0.58
24:V1:426:TYR:O	24:V1:464:ARG:NH2	2.36	0.58
24:V3:426:TYR:O	24:V3:464:ARG:NH2	2.36	0.58
26:X1:162:VAL:O	26:X1:166:ASP:HB3	2.03	0.58
26:X1:227:VAL:C	26:X1:229:SER:H	2.12	0.58
26:X2:453:ASP:HB3	27:Y2:225:GLY:O	2.04	0.58
2:A2:223:THR:C	6:D1:709:ARG:NH2	2.62	0.58
2:A2:782:VAL:N	6:D1:677:GLN:HA	2.19	0.58
2:A2:825:ARG:HD2	6:D1:633:LYS:HG3	1.85	0.58
2:A2:1054:SER:O	6:D2:762:ARG:CD	2.49	0.58
1:A3:1052:THR:OG1	6:D3:816:VAL:HG21	2.00	0.58
1:A3:1227:PRO:HB3	2:A4:728:LYS:NZ	2.16	0.58
1:A3:1399:ARG:HD2	2:A4:884:ARG:O	2.03	0.58
2:A4:868:GLN:CG	6:D3:570:VAL:HB	2.34	0.58
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CA	2.34	0.58
3:A6:156:ALA:O	5:C4:741:THR:CG2	2.51	0.58
3:A6:159:SER:HA	5:C4:743:LEU:C	2.24	0.58
3:A6:1312:ARG:HH12	28:Z4:842:LEU:CA	2.17	0.58
3:A6:1358:LEU:HG	28:Z4:878:HIS:CA	2.30	0.58
8:F2:856:GLU:N	8:F2:856:GLU:OE1	2.37	0.58
11:I1:1672:VAL:CG2	11:I2:1611:PHE:CB	2.82	0.58
11:I2:925:LEU:HD21	20:R3:163:LEU:HB3	1.85	0.58
11:I2:996:LEU:CD1	15:M3:607:SER:O	2.50	0.58
11:I2:1037:THR:CG2	20:R3:173:LEU:HD23	2.33	0.58
11:I2:1051:LYS:HG2	17:O3:284:LYS:C	2.18	0.58
17:O3:147:ALA:C	18:P3:328:PRO:HB3	2.28	0.58
21:S1:947:GLU:CD	21:S1:947:GLU:H	2.12	0.58
22:T1:885:ARG:HH11	22:T1:885:ARG:CG	2.11	0.58
23:U2:71:GLU:OE1	23:U2:75:TRP:NE1	2.36	0.58
23:U4:211:ILE:HG23	24:V4:321:VAL:HG11	1.85	0.58
26:X2:145:ASN:OD1	26:X2:190:PHE:HA	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:163:LYS:HD2	26:X3:172:PHE:CZ	2.39	0.58
26:X4:145:ASN:OD1	26:X4:190:PHE:HA	2.04	0.58
26:X4:271:LEU:O	26:X4:275:SER:HB3	2.04	0.58
28:Z1:410:ASN:HD22	30:b1:251:ILE:C	2.11	0.58
28:Z1:555:LYS:HB3	30:b1:212:PHE:C	2.29	0.58
28:Z2:401:THR:HG22	30:b2:253:SER:H	1.69	0.58
28:Z3:401:THR:HG22	30:b3:253:SER:H	1.69	0.58
28:Z3:410:ASN:HD22	30:b3:251:ILE:C	2.11	0.58
28:Z3:526:ARG:HD3	30:b3:207:GLY:HA3	1.85	0.58
28:Z4:521:SER:HG	30:b4:238:ASN:N	2.01	0.58
28:Z4:558:LEU:N	30:b4:235:LEU:O	2.36	0.58
1:A1:1200:ARG:HB3	2:A2:727:ASN:O	2.02	0.57
1:A1:1226:LEU:HA	2:A2:728:LYS:CB	2.34	0.57
2:A2:879:LEU:HD12	6:D1:564:ASN:CG	2.29	0.57
2:A2:1135:ARG:C	3:A5:134:VAL:HG11	2.27	0.57
2:A2:1161:ALA:HB2	3:A5:176:LEU:CB	2.34	0.57
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG22	1.86	0.57
1:A3:1220:PRO:O	2:A4:672:ARG:NE	2.36	0.57
1:A3:1332:ARG:NH2	6:D3:681:ALA:HB1	2.19	0.57
2:A4:861:GLN:NE2	6:D3:607:PRO:HA	2.19	0.57
2:A4:1150:LEU:CD1	5:C4:731:LYS:CG	2.82	0.57
3:A6:189:VAL:CG1	5:C4:742:ASP:HB3	2.34	0.57
3:A6:1327:VAL:HG23	28:Z4:912:ASP:N	1.77	0.57
6:D6:201:LEU:O	6:D6:203:PRO:HD3	2.05	0.57
6:D7:598:ILE:HD13	6:D7:608:ILE:CD1	2.34	0.57
11:I1:834:SER:N	17:O1:237:PRO:CB	2.52	0.57
11:I1:928:LEU:CD1	20:R1:155:GLU:HB2	2.33	0.57
11:I1:942:HIS:O	17:O1:260:LEU:N	2.37	0.57
11:I1:952:LEU:CD1	16:N1:400:LEU:CD1	2.82	0.57
11:I1:1067:PHE:CD1	16:N1:433:GLU:N	2.72	0.57
11:I1:1668:HIS:CB	11:I2:1668:HIS:CB	2.66	0.57
11:I2:799:THR:O	11:I2:831:HIS:NE2	2.37	0.57
11:I2:921:GLU:N	11:I2:921:GLU:OE1	2.35	0.57
11:I2:924:ILE:HB	15:M3:597:LYS:N	2.19	0.57
11:I2:1035:GLN:HG3	15:M3:622:VAL:O	2.04	0.57
17:O3:102:LYS:CD	18:P3:322:LYS:NZ	2.60	0.57
21:S1:349:CYS:HA	21:S1:412:PHE:CE2	2.38	0.57
21:S2:184:ILE:HD11	21:S2:201:VAL:CG2	2.34	0.57
21:S4:349:CYS:HA	21:S4:412:PHE:CE2	2.39	0.57
21:S4:947:GLU:CD	21:S4:947:GLU:H	2.12	0.57
25:W3:205:ASP:HB3	25:W3:227:GLN:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:159:ILE:HG22	26:X1:172:PHE:CE1	2.39	0.57
28:Z1:342:LEU:HD13	28:Z1:379:ILE:HD12	1.86	0.57
28:Z2:185:GLY:O	28:Z2:196:PRO:HA	2.04	0.57
28:Z2:554:PHE:O	30:b2:233:TRP:O	1.89	0.57
28:Z2:555:LYS:CB	30:b2:213:ASP:H	2.17	0.57
30:b3:333:HIS:HD2	30:b3:336:HIS:H	1.52	0.57
2:A2:857:LYS:O	6:D1:606:LYS:HE2	2.04	0.57
2:A2:980:ARG:CA	6:D1:473:GLU:OE2	2.52	0.57
2:A2:1150:LEU:CD1	5:C2:731:LYS:CG	2.82	0.57
2:A2:1153:LEU:O	3:A5:175:GLU:N	2.36	0.57
2:A4:860:GLU:HG2	6:D3:606:LYS:HB2	0.65	0.57
3:A6:1411:ARG:HA	28:Z4:964:LEU:CB	2.33	0.57
6:D1:201:LEU:O	6:D1:203:PRO:HD3	2.04	0.57
6:D1:598:ILE:HD13	6:D1:608:ILE:CD1	2.34	0.57
6:D4:738:SER:OG	6:D4:740:GLU:OE1	2.22	0.57
6:D5:570:VAL:HG11	6:D5:598:ILE:HD12	1.86	0.57
6:D7:201:LEU:O	6:D7:203:PRO:HD3	2.05	0.57
6:D7:537:ARG:HH22	11:I3:173:ARG:NH2	2.02	0.57
7:E2:91:VAL:HG22	7:E2:91:VAL:O	2.04	0.57
8:F1:1202:TYR:CD1	17:O2:252:VAL:CG2	2.84	0.57
11:I1:987:GLY:CA	15:M1:614:ASP:HB3	2.27	0.57
11:I1:1030:ARG:CD	20:R1:175:GLN:OE1	2.51	0.57
11:I1:1669:ARG:CD	11:I2:1605:LEU:CD1	2.59	0.57
11:I2:899:LEU:O	17:O3:232:LYS:HG2	2.00	0.57
11:I2:947:LEU:HD21	16:N3:411:GLN:HG2	0.58	0.57
11:I2:1025:LEU:HD22	20:R3:170:LEU:HD13	1.86	0.57
11:I3:1275:SER:HB2	26:X1:508:LEU:CD1	2.30	0.57
23:U1:211:ILE:HG23	24:V1:321:VAL:HG11	1.85	0.57
23:U2:343:ILE:HD13	23:U2:344:ARG:N	2.19	0.57
23:U2:433:ALA:HB1	23:U2:439:SER:OG	2.05	0.57
24:V1:180:LEU:HD21	24:V1:185:LEU:HD13	1.85	0.57
24:V4:180:LEU:HD21	24:V4:185:LEU:HD13	1.85	0.57
26:X2:258:LEU:HD22	26:X2:292:LEU:HD22	1.85	0.57
26:X2:271:LEU:O	26:X2:275:SER:HB3	2.04	0.57
26:X4:453:ASP:HB3	27:Y4:225:GLY:O	2.04	0.57
28:Z4:410:ASN:HB3	30:b4:251:ILE:CD1	2.18	0.57
30:b2:333:HIS:HD2	30:b2:336:HIS:H	1.52	0.57
1:A1:1401:VAL:H	2:A2:884:ARG:HH12	1.50	0.57
1:A1:1402:ASP:H	2:A2:884:ARG:HH12	1.50	0.57
2:A2:965:LYS:HA	6:D1:199:GLY:C	2.30	0.57
1:A3:1048:ARG:NH2	6:D3:819:ASN:OD1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:860:GLU:O	6:D3:607:PRO:CD	2.52	0.57
3:A6:1300:LEU:HD23	28:Z4:875:LEU:CA	2.33	0.57
3:A6:1392:ARG:HE	28:Z4:901:ARG:CA	2.07	0.57
6:D3:201:LEU:O	6:D3:203:PRO:HD3	2.05	0.57
6:D3:598:ILE:HD13	6:D3:608:ILE:CD1	2.34	0.57
6:D6:570:VAL:HG11	6:D6:598:ILE:HD12	1.86	0.57
6:D6:738:SER:OG	6:D6:740:GLU:OE1	2.21	0.57
11:I1:797:LEU:HD22	17:O1:241:SER:OG	2.04	0.57
11:I1:799:THR:O	11:I1:831:HIS:NE2	2.37	0.57
11:I1:913:ALA:CB	15:M1:584:GLN:HG2	2.21	0.57
11:I1:957:SER:HA	20:R1:166:LEU:HD13	1.85	0.57
11:I1:1034:ASP:HB3	16:N1:444:SER:CB	2.34	0.57
11:I1:1038:ILE:HG13	20:R1:167:GLN:CG	2.33	0.57
11:I2:841:PHE:CE1	15:M3:588:MET:CG	2.82	0.57
11:I2:955:LYS:CB	16:N3:403:VAL:CG2	2.80	0.57
11:I2:997:SER:CB	17:O3:270:THR:HG21	2.32	0.57
11:I2:1016:ARG:O	16:N3:408:MET:C	2.47	0.57
11:I4:1433:THR:HG21	12:J4:270:ARG:CD	2.33	0.57
21:S1:184:ILE:HD11	21:S1:201:VAL:CG2	2.34	0.57
21:S2:349:CYS:HA	21:S2:412:PHE:CE2	2.39	0.57
26:X3:145:ASN:OD1	26:X3:190:PHE:HA	2.04	0.57
27:Y3:42:THR:HG22	29:a3:248:ARG:CD	2.35	0.57
27:Y3:219:SER:HG	27:Y3:312:TRP:CD1	2.22	0.57
28:Z1:554:PHE:CE2	30:b1:234:LEU:HD23	2.40	0.57
28:Z2:342:LEU:HD13	28:Z2:379:ILE:HD12	1.86	0.57
28:Z3:185:GLY:O	28:Z3:196:PRO:HA	2.04	0.57
28:Z3:555:LYS:HB3	30:b3:212:PHE:C	2.29	0.57
28:Z3:555:LYS:CB	30:b3:213:ASP:H	2.17	0.57
28:Z3:558:LEU:N	30:b3:235:LEU:O	2.36	0.57
2:A2:825:ARG:NH2	6:D1:679:ILE:HD11	2.19	0.57
1:A3:1048:ARG:NH2	6:D3:815:GLU:CD	2.47	0.57
1:A3:1051:THR:O	6:D3:809:ALA:O	2.21	0.57
2:A4:864:ARG:NH1	6:D3:610:ASN:HB2	2.18	0.57
2:A4:867:GLU:CA	6:D3:605:THR:HG21	2.34	0.57
2:A4:988:ARG:HH22	6:D3:498:GLU:C	2.13	0.57
3:A5:999:SER:HB3	11:I5:64:LYS:CE	2.34	0.57
3:A5:1101:GLN:NE2	11:I5:33:THR:HG21	2.07	0.57
3:A5:1395:LYS:N	28:Z2:874:ASN:N	2.52	0.57
3:A6:1361:ARG:CA	28:Z4:872:TYR:O	2.50	0.57
3:A6:1391:ARG:HD2	28:Z4:869:HIS:CB	2.33	0.57
9:G1:263:MET:SD	16:N2:407:ALA:O	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:843:GLU:CG	15:M1:587:GLU:OE1	2.52	0.57
11:I1:874:LEU:HA	17:O1:251:ILE:O	2.05	0.57
11:I1:916:ALA:HB2	15:M1:586:ASP:HB2	1.86	0.57
11:I1:926:SER:H	15:M1:593:ALA:HB1	1.70	0.57
11:I1:1663:LYS:HZ3	11:I2:1663:LYS:HB2	1.67	0.57
11:I1:1677:LYS:NZ	11:I2:1543:LEU:CD1	2.67	0.57
11:I2:841:PHE:CA	15:M3:591:ASP:CB	2.82	0.57
11:I2:885:GLU:HB2	17:O3:249:ARG:CD	2.35	0.57
11:I2:960:SER:HB2	16:N3:395:GLU:OE1	2.04	0.57
11:I2:1040:HIS:HE1	16:N3:437:VAL:CG1	2.00	0.57
11:I2:1051:LYS:CG	17:O3:284:LYS:O	2.53	0.57
17:O2:110:LEU:HG	18:P2:321:ILE:C	2.29	0.57
21:S2:947:GLU:CD	21:S2:947:GLU:H	2.12	0.57
21:S4:950:HIS:HE1	21:S4:995:MET:HE1	1.67	0.57
22:T2:779:GLN:N	22:T2:780:PRO:HD3	2.19	0.57
23:U1:71:GLU:OE1	23:U1:75:TRP:NE1	2.36	0.57
23:U3:71:GLU:OE1	23:U3:75:TRP:NE1	2.36	0.57
26:X3:271:LEU:O	26:X3:275:SER:HB3	2.04	0.57
26:X4:265:ILE:C	26:X4:267:ARG:H	2.12	0.57
28:Z1:535:ILE:HD11	30:b1:182:PRO:HG3	1.85	0.57
28:Z2:555:LYS:HB3	30:b2:212:PHE:C	2.29	0.57
28:Z4:522:ASN:OD1	30:b4:241:PRO:CG	2.40	0.57
30:b1:44:CYS:HB2	30:b1:61:LEU:HD11	1.85	0.57
30:b3:304:LEU:HD22	30:b3:305:PRO:HD2	1.85	0.57
1:A1:1202:GLU:HA	2:A2:735:ALA:HB3	1.85	0.57
2:A2:909:LYS:O	6:D1:555:ARG:HG3	2.05	0.57
1:A3:1203:TYR:HB3	2:A4:732:GLN:OE1	1.97	0.57
2:A4:879:LEU:CD1	6:D3:564:ASN:HD21	2.15	0.57
2:A4:988:ARG:NH1	6:D3:498:GLU:O	2.35	0.57
2:A4:1127:ALA:CA	3:A6:140:ALA:CA	2.77	0.57
3:A5:1379:GLY:CA	28:Z2:816:THR:H	2.13	0.57
3:A5:1392:ARG:HG2	28:Z2:866:GLU:C	2.10	0.57
3:A6:1351:MSE:O	28:Z4:918:PHE:HA	2.05	0.57
3:A6:1355:VAL:C	28:Z4:877:ILE:CB	2.77	0.57
3:A6:1366:LEU:CD1	28:Z4:870:ILE:N	2.67	0.57
6:D1:570:VAL:HG11	6:D1:598:ILE:HD12	1.85	0.57
6:D2:598:ILE:HD13	6:D2:608:ILE:CD1	2.34	0.57
11:I1:833:PHE:CZ	17:O1:238:ALA:O	2.57	0.57
11:I1:884:LEU:CB	16:N1:396:ILE:HG22	2.35	0.57
11:I1:992:ILE:O	15:M1:607:SER:O	2.22	0.57
11:I1:1042:LEU:C	16:N1:430:ARG:HD2	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1664:PHE:HA	11:I2:1666:THR:N	2.09	0.57
11:I4:465:GLU:N	11:I4:465:GLU:OE1	2.38	0.57
11:I5:1279:THR:CB	26:X2:520:GLU:CA	2.64	0.57
17:O3:158:GLU:CG	18:P3:315:GLU:C	2.66	0.57
21:S3:429:SER:HB2	21:S3:436:SER:CB	2.33	0.57
23:U3:343:ILE:HD13	23:U3:344:ARG:N	2.19	0.57
26:X4:159:ILE:HG21	26:X4:176:GLU:HG2	1.87	0.57
28:Z1:524:VAL:C	30:b1:236:THR:HG21	2.29	0.57
28:Z1:549:LYS:CB	30:b1:182:PRO:HD3	2.34	0.57
28:Z1:555:LYS:CD	30:b1:233:TRP:CE3	2.87	0.57
28:Z2:535:ILE:HD11	30:b2:182:PRO:HG3	1.85	0.57
28:Z3:535:ILE:HD11	30:b3:182:PRO:HG3	1.85	0.57
28:Z4:554:PHE:CE2	30:b4:234:LEU:CA	2.84	0.57
30:b1:333:HIS:HD2	30:b1:336:HIS:H	1.52	0.57
2:A2:872:ALA:N	2:A2:873:PRO:HD2	2.18	0.57
2:A2:965:LYS:HE2	6:D1:196:ILE:C	2.26	0.57
2:A2:981:PRO:CG	6:D1:504:LYS:N	2.68	0.57
2:A2:1135:ARG:NH1	3:A5:156:ALA:C	2.63	0.57
1:A3:1017:THR:HG22	6:D3:819:ASN:CG	2.29	0.57
2:A4:1135:ARG:HG2	3:A6:160:ILE:HD11	1.67	0.57
3:A5:1395:LYS:CA	28:Z2:874:ASN:H	2.18	0.57
3:A6:166:LEU:HD13	5:C4:740:ARG:CB	2.33	0.57
8:F1:1202:TYR:C	17:O2:252:VAL:HA	2.20	0.57
11:I1:895:ARG:NE	17:O1:233:THR:HB	2.17	0.57
11:I1:1667:GLN:C	11:I2:1665:LEU:CA	2.73	0.57
11:I2:884:LEU:CD1	15:M3:599:ILE:HD13	2.33	0.57
11:I2:895:ARG:NH1	16:N3:386:MET:HE2	2.20	0.57
11:I2:1020:ALA:CB	16:N3:407:ALA:O	2.51	0.57
11:I3:1112:SER:HB3	12:J3:241:THR:HB	1.87	0.57
11:I4:1277:LEU:CB	26:X3:517:ASP:O	2.49	0.57
11:I4:1279:THR:HG22	26:X3:524:SER:H	0.54	0.57
12:J5:249:ASP:OD1	12:J5:250:THR:N	2.37	0.57
21:S1:384:ASP:OD1	21:S1:384:ASP:N	2.38	0.57
21:S1:991:LYS:O	21:S1:995:MET:HB2	2.04	0.57
21:S4:1124:ASP:O	21:S4:1127:GLN:N	2.32	0.57
23:U3:280:SER:HB2	23:U3:284:SER:HB3	1.86	0.57
24:V4:359:TYR:HA	24:V4:362:LEU:HD12	1.86	0.57
26:X1:258:LEU:HD22	26:X1:292:LEU:HD22	1.85	0.57
27:Y4:42:THR:HG22	29:a4:248:ARG:CD	2.35	0.57
28:Z2:526:ARG:HD3	30:b2:207:GLY:HA3	1.84	0.57
28:Z2:558:LEU:N	30:b2:235:LEU:O	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:554:PHE:O	30:b3:233:TRP:O	1.89	0.57
28:Z4:555:LYS:CD	30:b4:233:TRP:CE3	2.87	0.57
2:A2:868:GLN:O	6:D1:598:ILE:CG2	2.53	0.57
2:A2:1143:LEU:HG	3:A5:131:PRO:HA	0.58	0.57
1:A3:1199:GLN:N	2:A4:729:SER:C	2.62	0.57
2:A4:235:TYR:OH	4:B4:347:LEU:HD12	2.05	0.57
2:A4:974:PRO:HG2	6:D3:495:VAL:C	1.87	0.57
3:A5:229:SER:CA	5:C2:739:MET:HE3	2.30	0.57
8:F1:1137:GLN:N	17:O2:248:SER:OG	2.08	0.57
8:F1:1336:GLU:N	8:F1:1336:GLU:OE1	2.36	0.57
11:I1:958:THR:N	16:N1:399:HIS:CG	2.71	0.57
11:I1:1052:LEU:O	17:O1:283:ALA:O	2.22	0.57
11:I1:1738:TYR:OH	11:I2:1602:PHE:HB2	2.04	0.57
11:I2:1039:ALA:C	20:R3:170:LEU:CD1	2.58	0.57
11:I3:799:THR:O	11:I3:831:HIS:NE2	2.37	0.57
11:I3:1277:LEU:CG	26:X1:522:MET:SD	2.83	0.57
11:I3:1277:LEU:CA	26:X1:522:MET:HB2	2.35	0.57
11:I5:77:GLU:OE1	11:I5:77:GLU:N	2.38	0.57
11:I5:94:GLU:N	11:I5:94:GLU:OE1	2.37	0.57
12:J2:249:ASP:OD1	12:J2:250:THR:N	2.37	0.57
21:S4:384:ASP:N	21:S4:384:ASP:OD1	2.38	0.57
23:U2:211:ILE:HG23	24:V2:321:VAL:HG11	1.85	0.57
25:W2:205:ASP:HB3	25:W2:227:GLN:HB3	1.85	0.57
26:X3:227:VAL:C	26:X3:229:SER:H	2.12	0.57
27:Y4:123:LEU:HB2	27:Y4:139:ALA:HB3	1.86	0.57
28:Z1:537:THR:CG2	28:Z1:743:ASN:HA	2.31	0.57
28:Z3:555:LYS:CD	30:b3:233:TRP:CE3	2.87	0.57
28:Z4:554:PHE:CE2	30:b4:234:LEU:HD23	2.40	0.57
1:A3:1098:ARG:CZ	11:I2:1478:VAL:HG22	2.33	0.57
1:A3:1221:ILE:CG1	2:A4:642:ARG:HA	2.34	0.57
2:A4:1139:ILE:HD13	3:A6:134:VAL:CA	2.32	0.57
2:A4:1163:TYR:CE2	3:A6:137:HIS:HE1	1.92	0.57
3:A6:1350:VAL:HG23	28:Z4:917:ASP:CB	2.33	0.57
6:D1:738:SER:OG	6:D1:740:GLU:OE1	2.22	0.57
6:D2:201:LEU:O	6:D2:203:PRO:HD3	2.05	0.57
6:D5:598:ILE:HD13	6:D5:608:ILE:CD1	2.34	0.57
6:D6:598:ILE:HD13	6:D6:608:ILE:CD1	2.34	0.57
8:F1:856:GLU:N	8:F1:856:GLU:OE1	2.36	0.57
8:F1:1263:MET:C	17:O2:262:ASP:HB3	2.30	0.57
8:F1:1659:MET:O	8:F1:1712:ASN:ND2	2.36	0.57
9:G2:258:LYS:HB2	17:O4:256:TYR:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:797:LEU:HD11	17:O1:245:GLU:N	2.20	0.57
11:I1:840:LEU:HD22	17:O1:247:TRP:HD1	1.70	0.57
11:I1:916:ALA:CB	15:M1:586:ASP:OD1	2.52	0.57
11:I1:946:THR:HG23	17:O1:260:LEU:N	1.61	0.57
11:I1:954:GLU:O	16:N1:399:HIS:CA	2.52	0.57
11:I1:1104:LEU:CD1	16:N1:433:GLU:CB	2.82	0.57
11:I2:925:LEU:CD1	15:M3:593:ALA:HB1	2.34	0.57
11:I2:1037:THR:HG21	20:R3:169:GLY:C	2.30	0.57
11:I2:1067:PHE:HB3	16:N3:431:VAL:HG23	1.87	0.57
12:J1:249:ASP:OD1	12:J1:250:THR:N	2.37	0.57
12:J3:249:ASP:OD1	12:J3:250:THR:N	2.37	0.57
24:V4:199:THR:HB	24:V4:213:GLU:HB2	1.87	0.57
27:Y2:42:THR:HG22	29:a2:248:ARG:CD	2.35	0.57
27:Y4:238:GLY:HA2	27:Y4:305:GLY:O	2.05	0.57
28:Z2:537:THR:CG2	28:Z2:743:ASN:HA	2.31	0.57
28:Z3:554:PHE:CE2	30:b3:234:LEU:HD23	2.39	0.57
28:Z4:549:LYS:CB	30:b4:182:PRO:HD3	2.34	0.57
2:A2:904:GLN:HB3	6:D1:603:SER:N	2.18	0.57
2:A2:973:GLU:HB3	6:D1:205:LEU:CD2	2.26	0.57
2:A2:978:ASP:N	6:D1:496:LEU:CD1	2.67	0.57
2:A4:876:ARG:CD	6:D3:563:GLU:O	2.52	0.57
2:A4:985:ALA:CA	6:D3:500:LYS:HA	2.35	0.57
3:A5:994:VAL:O	11:I5:61:LYS:CG	2.52	0.57
3:A6:164:LEU:HD11	5:C4:741:THR:O	2.04	0.57
3:A6:1373:GLY:CA	28:Z4:823:ALA:HB2	2.03	0.57
11:I1:914:ASN:HB2	15:M1:588:MET:H	0.75	0.57
11:I1:928:LEU:CG	20:R1:155:GLU:HG3	2.34	0.57
11:I1:1044:GLY:O	17:O1:280:GLU:OE2	2.23	0.57
11:I2:877:ILE:HB	17:O3:255:GLY:H	1.70	0.57
11:I3:465:GLU:N	11:I3:465:GLU:OE1	2.38	0.57
12:J4:249:ASP:OD1	12:J4:250:THR:N	2.37	0.57
23:U1:280:SER:HB2	23:U1:284:SER:HB3	1.86	0.57
25:W4:117:LEU:HB2	25:W4:153:TRP:NE1	2.20	0.57
26:X2:159:ILE:HG21	26:X2:176:GLU:HG2	1.87	0.57
28:Z4:401:THR:HG22	30:b4:253:SER:H	1.69	0.57
28:Z4:410:ASN:HD22	30:b4:252:ALA:CA	2.14	0.57
28:Z4:555:LYS:HB3	30:b4:212:PHE:C	2.29	0.57
28:Z4:561:GLN:HB3	30:b4:236:THR:O	2.05	0.57
2:A2:864:ARG:NH2	6:D1:634:ASN:HB2	2.19	0.57
2:A2:868:GLN:HA	6:D1:584:LEU:CD2	2.34	0.57
2:A2:1019:ARG:NH2	6:D1:237:PRO:C	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:876:ARG:NE	6:D3:558:LYS:C	2.53	0.57
2:A4:1142:PHE:O	3:A6:131:PRO:HA	2.04	0.57
3:A5:1024:ASP:O	11:I5:68:ILE:CD1	2.52	0.57
7:E3:91:VAL:HG22	7:E3:91:VAL:O	2.04	0.57
9:G2:256:GLN:HB2	17:O4:261:LYS:H	1.69	0.57
11:I1:77:GLU:OE1	11:I1:77:GLU:N	2.38	0.57
11:I1:877:ILE:CG2	17:O1:254:ARG:H	2.13	0.57
11:I1:942:HIS:O	17:O1:260:LEU:CB	2.50	0.57
11:I1:1049:LEU:O	17:O1:291:ASP:N	2.38	0.57
11:I1:1067:PHE:CD2	16:N1:432:TYR:N	2.59	0.57
11:I1:1187:SER:N	17:O2:221:ASP:CG	2.63	0.57
11:I2:891:LEU:CG	16:N3:393:ILE:CD1	2.79	0.57
11:I2:953:LEU:C	15:M3:603:SER:CB	2.74	0.57
11:I2:966:TRP:CE3	20:R3:167:GLN:CB	2.67	0.57
11:I2:1068:HIS:O	16:N3:429:GLU:CD	2.47	0.57
11:I3:354:ASP:OD1	11:I3:355:GLU:N	2.38	0.57
11:I3:771:ASN:ND2	29:a2:12:LYS:NZ	2.53	0.57
21:S2:384:ASP:OD1	21:S2:384:ASP:N	2.38	0.57
22:T3:669:ARG:HA	22:T3:672:ILE:HG22	1.87	0.57
23:U3:433:ALA:HB1	23:U3:439:SER:OG	2.05	0.57
24:V3:359:TYR:HA	24:V3:362:LEU:HD12	1.86	0.57
26:X1:145:ASN:OD1	26:X1:190:PHE:HA	2.04	0.57
26:X2:159:ILE:HG22	26:X2:172:PHE:CE1	2.39	0.57
26:X3:159:ILE:HG21	26:X3:176:GLU:HG2	1.87	0.57
28:Z3:530:LYS:HZ3	30:b3:164:CYS:HA	1.68	0.57
28:Z3:531:LYS:NZ	30:b3:166:LEU:HB2	2.20	0.57
28:Z4:101:SER:HA	28:Z4:123:LEU:HA	1.87	0.57
30:b4:333:HIS:HD2	30:b4:336:HIS:H	1.52	0.57
1:A1:1204:TRP:HE3	2:A2:734:LEU:CD1	1.94	0.56
2:A2:872:ALA:CB	6:D1:565:MET:SD	2.92	0.56
2:A2:908:LEU:HD23	6:D1:601:PHE:HB2	1.87	0.56
2:A4:225:THR:O	6:D3:709:ARG:CZ	2.52	0.56
2:A4:1139:ILE:CG1	3:A6:138:LEU:HG	2.34	0.56
3:A6:1326:TRP:HD1	28:Z4:913:ILE:O	1.86	0.56
6:D4:201:LEU:O	6:D4:203:PRO:HD3	2.04	0.56
6:D5:201:LEU:O	6:D5:203:PRO:HD3	2.05	0.56
7:E6:91:VAL:HG22	7:E6:91:VAL:O	2.04	0.56
9:G1:260:THR:CG2	17:O2:259:ASP:CB	2.83	0.56
11:I1:930:LEU:HD13	15:M1:598:GLU:CG	2.09	0.56
11:I1:1024:PHE:HB2	16:N1:406:HIS:HB2	0.57	0.56
11:I1:1055:GLU:HB3	17:O1:280:GLU:CB	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1055:GLU:N	17:O1:281:ALA:N	2.52	0.56
11:I2:922:ASP:CB	20:R3:163:LEU:CD1	2.39	0.56
11:I2:931:VAL:O	15:M3:601:ASP:O	2.21	0.56
11:I2:943:ALA:C	17:O3:260:LEU:HB2	2.29	0.56
11:I2:947:LEU:HD12	17:O3:260:LEU:HD21	1.76	0.56
11:I2:990:GLU:C	15:M3:608:LYS:HZ2	2.11	0.56
11:I2:1018:LYS:CE	16:N3:413:VAL:O	2.43	0.56
11:I2:1054:ILE:N	17:O3:281:ALA:CA	2.67	0.56
11:I3:1284:GLU:N	11:I3:1284:GLU:OE1	2.38	0.56
11:I5:799:THR:O	11:I5:831:HIS:NE2	2.37	0.56
11:I5:1279:THR:HG21	26:X2:521:TRP:N	2.18	0.56
21:S2:940:GLU:OE1	21:S2:949:ALA:HA	2.05	0.56
22:T1:779:GLN:N	22:T1:780:PRO:HD3	2.19	0.56
23:U3:237:ILE:HD11	23:U3:240:HIS:HA	1.87	0.56
25:W3:217:LEU:HD22	25:W3:218:LEU:H	1.69	0.56
27:Y1:42:THR:HG22	29:a1:248:ARG:CD	2.35	0.56
28:Z1:401:THR:HG22	30:b1:253:SER:H	1.69	0.56
28:Z3:410:ASN:HD22	30:b3:252:ALA:CA	2.14	0.56
28:Z3:554:PHE:CE2	30:b3:234:LEU:CA	2.84	0.56
28:Z3:561:GLN:HB3	30:b3:236:THR:O	2.05	0.56
28:Z4:524:VAL:N	30:b4:237:LEU:C	2.62	0.56
28:Z4:555:LYS:CB	30:b4:233:TRP:CE3	2.88	0.56
2:A2:781:ARG:HG3	6:D1:673:ARG:O	2.05	0.56
2:A2:989:MSE:HG2	6:D1:500:LYS:CD	2.02	0.56
2:A2:1143:LEU:CG	3:A5:132:ASP:H	2.17	0.56
2:A2:1143:LEU:N	3:A5:130:ILE:O	2.34	0.56
1:A3:1048:ARG:NH2	6:D3:790:ARG:NH2	2.52	0.56
1:A3:1222:ALA:O	2:A4:731:ILE:CG1	2.52	0.56
2:A4:985:ALA:O	6:D3:500:LYS:HA	2.05	0.56
3:A6:1387:ILE:C	28:Z4:866:GLU:N	2.60	0.56
5:C1:732:LYS:HG2	11:I1:1228:GLU:CD	2.30	0.56
7:E1:91:VAL:HG22	7:E1:91:VAL:O	2.04	0.56
8:F2:1659:MET:O	8:F2:1712:ASN:ND2	2.36	0.56
11:I1:924:ILE:HD12	15:M1:599:ILE:HD12	1.86	0.56
11:I1:1037:THR:HG22	20:R1:173:LEU:HB3	1.71	0.56
11:I1:1055:GLU:HG3	17:O1:277:GLU:O	2.05	0.56
11:I2:833:PHE:CE1	17:O3:241:SER:C	2.83	0.56
11:I2:837:MET:HE3	17:O3:243:LEU:CB	2.02	0.56
11:I3:1267:LEU:O	26:X1:529:TRP:CD1	2.58	0.56
22:T2:669:ARG:HA	22:T2:672:ILE:HG22	1.87	0.56
23:U1:210:MET:O	24:V1:325:TYR:OH	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:280:SER:HB2	23:U4:284:SER:HB3	1.86	0.56
24:V1:359:TYR:HA	24:V1:362:LEU:HD12	1.86	0.56
24:V2:433:GLU:OE1	24:V2:467:SER:OG	2.20	0.56
25:W1:117:LEU:HB2	25:W1:153:TRP:NE1	2.20	0.56
25:W3:117:LEU:HB2	25:W3:153:TRP:NE1	2.20	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
27:Y4:29:SER:C	27:Y4:31:GLN:H	2.13	0.56
28:Z3:342:LEU:HD13	28:Z3:379:ILE:HD12	1.86	0.56
28:Z3:555:LYS:CB	30:b3:233:TRP:CE3	2.88	0.56
28:Z4:555:LYS:HG3	30:b4:233:TRP:CE3	2.24	0.56
28:Z4:659:TYR:OH	28:Z4:744:VAL:HA	2.05	0.56
30:b2:44:CYS:HB2	30:b2:61:LEU:HD11	1.85	0.56
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB3	2.05	0.56
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HA	2.21	0.56
1:A1:1200:ARG:HH21	2:A2:642:ARG:NH2	2.02	0.56
2:A2:226:PRO:C	6:D1:708:ASP:O	2.48	0.56
2:A2:235:TYR:OH	4:B2:347:LEU:HD12	2.05	0.56
2:A2:868:GLN:HA	6:D1:584:LEU:HD21	1.87	0.56
2:A2:1125:LEU:HD23	3:A5:137:HIS:CD2	2.41	0.56
2:A2:1134:GLU:CD	3:A5:146:LYS:HG3	2.31	0.56
2:A2:1164:TYR:CA	4:B5:342:ARG:CG	2.83	0.56
1:A3:1399:ARG:CZ	2:A4:888:GLN:N	2.44	0.56
2:A4:877:ALA:H	6:D3:563:GLU:HB3	1.68	0.56
2:A4:983:LEU:HD12	6:D3:553:PHE:HB2	1.77	0.56
2:A4:1122:LEU:CB	3:A6:132:ASP:HB3	2.32	0.56
2:A4:1125:LEU:HB3	3:A6:137:HIS:HB2	1.85	0.56
2:A4:1133:GLU:N	3:A6:144:PHE:C	2.62	0.56
2:A4:1160:GLN:O	3:A6:180:GLU:OE2	2.23	0.56
3:A6:1309:GLY:O	28:Z4:830:LEU:CA	2.54	0.56
3:A6:1337:ALA:HB3	28:Z4:960:CYS:CB	2.33	0.56
3:A6:1376:LEU:HD13	28:Z4:813:CYS:CB	2.35	0.56
3:A6:1398:LYS:O	28:Z4:886:LEU:C	2.49	0.56
8:F1:540:GLU:N	8:F1:540:GLU:OE1	2.38	0.56
8:F1:1290:VAL:HG12	8:F1:1290:VAL:O	2.06	0.56
9:G1:258:LYS:HZ2	16:N2:408:MET:HB2	0.71	0.56
11:I1:94:GLU:N	11:I1:94:GLU:OE1	2.38	0.56
11:I1:354:ASP:OD1	11:I1:355:GLU:N	2.38	0.56
11:I1:873:ILE:HG22	17:O1:255:GLY:H	1.61	0.56
11:I1:880:MET:HB2	17:O1:250:LEU:HB3	0.96	0.56
11:I2:841:PHE:CE2	15:M3:588:MET:HE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:877:ILE:HD13	17:O3:253:LEU:O	1.95	0.56
11:I2:882:LYS:CA	17:O3:245:GLU:O	2.52	0.56
11:I2:924:ILE:CG1	15:M3:596:ILE:C	2.49	0.56
11:I2:950:LEU:CD2	16:N3:406:HIS:NE2	2.56	0.56
11:I2:958:THR:HB	16:N3:399:HIS:CA	2.36	0.56
11:I2:993:SER:HB2	17:O3:271:GLU:O	2.05	0.56
11:I2:1050:SER:OG	17:O3:288:GLU:O	2.22	0.56
11:I2:1109:LEU:CA	17:O3:290:TYR:CE2	2.87	0.56
11:I3:1271:GLU:HB2	26:X1:525:ILE:HG23	1.74	0.56
11:I4:77:GLU:OE1	11:I4:77:GLU:N	2.38	0.56
11:I5:1284:GLU:N	11:I5:1284:GLU:OE1	2.38	0.56
17:O3:148:ARG:CD	18:P3:325:ILE:CG2	2.83	0.56
17:O4:107:THR:HG23	18:P4:321:ILE:HD12	1.75	0.56
21:S3:1032:ILE:HD12	21:S3:1051:ALA:CA	2.36	0.56
22:T1:669:ARG:HA	22:T1:672:ILE:HG22	1.87	0.56
23:U1:343:ILE:HD13	23:U1:344:ARG:N	2.19	0.56
23:U4:433:ALA:HB1	23:U4:439:SER:OG	2.05	0.56
24:V4:156:THR:HG22	24:V4:514:ARG:HD2	1.88	0.56
25:W4:217:LEU:HD22	25:W4:218:LEU:H	1.69	0.56
26:X1:265:ILE:C	26:X1:267:ARG:H	2.12	0.56
26:X1:271:LEU:O	26:X1:275:SER:HB3	2.04	0.56
26:X2:227:VAL:C	26:X2:229:SER:H	2.12	0.56
27:Y1:238:GLY:HA2	27:Y1:305:GLY:O	2.05	0.56
27:Y2:29:SER:C	27:Y2:31:GLN:H	2.13	0.56
27:Y2:238:GLY:HA2	27:Y2:305:GLY:O	2.05	0.56
28:Z1:555:LYS:HG3	30:b1:233:TRP:CE3	2.24	0.56
28:Z2:101:SER:HA	28:Z2:123:LEU:HA	1.87	0.56
28:Z2:554:PHE:CE2	30:b2:234:LEU:HD23	2.40	0.56
28:Z2:561:GLN:HB3	30:b2:236:THR:O	2.05	0.56
28:Z2:659:TYR:OH	28:Z2:744:VAL:HA	2.05	0.56
28:Z3:101:SER:HA	28:Z3:123:LEU:HA	1.87	0.56
28:Z3:410:ASN:ND2	30:b3:252:ALA:N	2.47	0.56
28:Z4:185:GLY:O	28:Z4:196:PRO:HA	2.04	0.56
28:Z4:342:LEU:HD13	28:Z4:379:ILE:HD12	1.86	0.56
28:Z4:401:THR:CB	30:b4:253:SER:O	2.25	0.56
28:Z4:522:ASN:ND2	30:b4:241:PRO:N	2.52	0.56
28:Z4:526:ARG:HB3	30:b4:206:ASN:HB2	1.80	0.56
30:b3:166:LEU:HD22	30:b3:202:VAL:HG21	1.87	0.56
30:b4:166:LEU:HD22	30:b4:202:VAL:HG21	1.87	0.56
1:A1:871:ASN:N	6:D3:280:GLN:H	2.03	0.56
1:A1:1229:VAL:CG2	2:A2:725:GLU:CG	2.82	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:970:PHE:CG	6:D1:196:ILE:HD13	2.39	0.56
2:A2:973:GLU:CB	6:D1:498:GLU:CG	2.80	0.56
1:A3:1048:ARG:NH2	6:D3:819:ASN:ND2	2.48	0.56
1:A3:1084:ARG:HG3	6:D3:794:THR:CB	2.27	0.56
1:A3:1220:PRO:HB3	2:A4:646:ILE:HG23	1.87	0.56
1:A3:1332:ARG:NE	6:D3:636:ASP:CB	2.68	0.56
2:A4:863:GLN:HG2	6:D3:603:SER:O	2.03	0.56
2:A4:904:GLN:NE2	6:D3:603:SER:N	2.18	0.56
3:A5:1023:ILE:CG1	11:I5:95:LYS:CG	2.38	0.56
3:A5:1395:LYS:CB	28:Z2:870:ILE:CA	2.74	0.56
3:A6:158:ALA:O	5:C4:743:LEU:HA	2.05	0.56
3:A6:1310:ARG:HG3	28:Z4:827:GLN:N	2.20	0.56
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD3	1.68	0.56
8:F1:1094:GLY:C	17:O2:237:PRO:HA	2.28	0.56
11:I1:850:ILE:HG21	15:M1:594:LYS:HG2	1.87	0.56
11:I1:876:ALA:O	17:O1:248:SER:C	2.48	0.56
11:I1:962:ILE:CD1	20:R1:164:PRO:O	2.53	0.56
11:I1:989:GLY:H	15:M1:614:ASP:CG	2.12	0.56
11:I1:1018:LYS:H	16:N1:412:ASN:HB3	1.71	0.56
11:I1:1603:ARG:CZ	11:I2:1662:ARG:HD3	2.26	0.56
11:I2:992:ILE:HG13	15:M3:610:SER:H	1.70	0.56
11:I2:1018:LYS:C	16:N3:409:ALA:O	2.49	0.56
11:I3:1267:LEU:CD1	26:X1:529:TRP:HA	2.21	0.56
11:I5:1112:SER:HB3	12:J5:241:THR:HB	1.87	0.56
21:S4:184:ILE:HD11	21:S4:201:VAL:CG2	2.34	0.56
21:S4:443:VAL:HG13	21:S4:445:ASN:CG	2.30	0.56
24:V1:199:THR:HB	24:V1:213:GLU:HB2	1.87	0.56
28:Z2:555:LYS:CD	30:b2:233:TRP:CE3	2.87	0.56
28:Z2:560:ASN:ND2	30:b2:211:ILE:HG21	2.15	0.56
28:Z4:524:VAL:C	30:b4:236:THR:HG21	2.29	0.56
1:A1:868:GLN:C	6:D3:280:GLN:CG	2.69	0.56
2:A2:1054:SER:O	6:D2:762:ARG:CG	2.45	0.56
2:A2:1140:GLU:C	3:A5:130:ILE:HB	2.31	0.56
2:A2:1161:ALA:HB2	3:A5:176:LEU:HB2	1.86	0.56
2:A2:1277:TRP:CG	2:A2:1278:PRO:HD3	2.41	0.56
1:A3:1052:THR:CB	6:D3:816:VAL:CB	2.41	0.56
2:A4:1121:LEU:C	3:A6:133:LYS:HA	2.30	0.56
3:A5:1024:ASP:C	11:I5:98:ALA:HB3	2.29	0.56
3:A6:157:TRP:HH2	5:C4:746:PRO:C	2.13	0.56
3:A6:177:ILE:HD11	5:C4:736:ASN:O	2.04	0.56
3:A6:234:LEU:HD23	5:C4:737:LYS:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:179:ASP:OD2	11:I3:50:ALA:N	2.38	0.56
11:I1:877:ILE:HG21	17:O1:253:LEU:HB2	1.36	0.56
11:I1:913:ALA:N	15:M1:584:GLN:HG3	2.09	0.56
11:I1:939:ASN:O	17:O1:265:ASN:N	2.39	0.56
11:I1:1048:GLU:C	15:M1:622:VAL:HG12	2.31	0.56
11:I2:77:GLU:OE1	11:I2:77:GLU:N	2.38	0.56
11:I2:1020:ALA:CB	16:N3:409:ALA:H	2.00	0.56
11:I2:1046:HIS:CB	17:O3:280:GLU:HB3	2.36	0.56
11:I4:1279:THR:OG1	26:X3:523:LEU:HB2	1.82	0.56
17:O3:102:LYS:N	18:P3:322:LYS:HD3	1.88	0.56
21:S3:443:VAL:HG13	21:S3:445:ASN:CG	2.30	0.56
22:T3:779:GLN:N	22:T3:780:PRO:HD3	2.19	0.56
23:U1:210:MET:HE3	24:V1:322:LEU:HD22	1.88	0.56
23:U1:433:ALA:HB1	23:U1:439:SER:OG	2.05	0.56
23:U2:237:ILE:HD11	23:U2:240:HIS:HA	1.87	0.56
23:U4:237:ILE:HD11	23:U4:240:HIS:HA	1.87	0.56
24:V1:156:THR:HG22	24:V1:514:ARG:HD2	1.88	0.56
25:W2:117:LEU:HB2	25:W2:153:TRP:NE1	2.20	0.56
26:X4:227:VAL:C	26:X4:229:SER:H	2.12	0.56
28:Z1:411:LEU:HG	30:b1:251:ILE:CD1	2.36	0.56
28:Z1:554:PHE:CE2	30:b1:234:LEU:CA	2.84	0.56
28:Z2:521:SER:HG	30:b2:238:ASN:N	2.02	0.56
28:Z4:245:ILE:HG21	28:Z4:311:LEU:HD23	1.88	0.56
1:A1:1402:ASP:N	2:A2:884:ARG:HH12	2.03	0.56
2:A2:989:MSE:CE	6:D1:240:ASP:CB	2.76	0.56
2:A2:1131:ILE:HA	3:A5:165:PHE:CE2	2.41	0.56
2:A4:238:ARG:HH12	4:B4:349:MET:CE	2.19	0.56
3:A5:165:PHE:CG	5:C2:743:LEU:HD21	2.30	0.56
3:A5:1030:THR:N	11:I5:71:GLU:C	2.62	0.56
3:A6:1312:ARG:HH12	28:Z4:842:LEU:HA	1.69	0.56
3:A6:1362:ALA:CB	28:Z4:870:ILE:C	2.65	0.56
3:A6:1363:ASP:HA	28:Z4:869:HIS:C	2.30	0.56
3:A6:1409:MSE:SE	28:Z4:917:ASP:C	2.99	0.56
6:D5:612:VAL:HG12	6:D5:628:LEU:HD13	1.88	0.56
6:D7:612:VAL:HG12	6:D7:628:LEU:HD13	1.88	0.56
8:F1:1093:LEU:HB2	17:O2:244:GLU:OE2	2.06	0.56
8:F1:1264:ARG:NH2	17:O2:264:ILE:HD13	2.20	0.56
11:I1:990:GLU:CB	17:O1:272:SER:HA	2.31	0.56
11:I1:1112:SER:HB3	12:J1:241:THR:HB	1.87	0.56
11:I2:354:ASP:OD1	11:I2:355:GLU:N	2.38	0.56
11:I2:465:GLU:N	11:I2:465:GLU:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:879:VAL:O	17:O3:247:TRP:N	2.31	0.56
11:I2:981:VAL:H	20:R3:147:LEU:CG	2.14	0.56
17:O4:110:LEU:HB2	18:P4:321:ILE:HB	1.74	0.56
23:U1:274:GLN:HE21	25:W2:192:GLN:NE2	2.04	0.56
23:U4:34:ASP:HB3	23:U4:35:PRO:HD3	1.88	0.56
24:V3:156:THR:HG22	24:V3:514:ARG:HD2	1.88	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:X3:159:ILE:HG22	26:X3:172:PHE:CE1	2.39	0.56
26:X4:159:ILE:HG22	26:X4:172:PHE:CE1	2.39	0.56
28:Z2:555:LYS:CB	30:b2:233:TRP:CE3	2.88	0.56
28:Z4:526:ARG:HD3	30:b4:207:GLY:CA	2.36	0.56
30:b1:166:LEU:HD22	30:b1:202:VAL:HG21	1.87	0.56
1:A1:1401:VAL:N	2:A2:884:ARG:NH1	2.49	0.56
2:A2:978:ASP:O	6:D1:473:GLU:HA	2.04	0.56
2:A2:1137:ALA:CB	3:A5:147:LEU:HD11	2.23	0.56
1:A3:1048:ARG:CD	6:D3:790:ARG:NH2	2.68	0.56
1:A3:1054:SER:CB	6:D3:809:ALA:CB	2.83	0.56
2:A4:868:GLN:CD	6:D3:608:ILE:CB	2.76	0.56
2:A4:1139:ILE:C	3:A6:135:PHE:N	2.63	0.56
3:A5:1029:ILE:N	11:I5:68:ILE:CA	2.59	0.56
3:A5:1090:SER:C	11:I5:36:GLU:CG	2.57	0.56
3:A5:1151:THR:HA	5:C5:733:LEU:HD11	1.79	0.56
3:A5:1369:ILE:HG12	28:Z2:831:LEU:CA	2.15	0.56
3:A6:1390:LEU:CB	28:Z4:867:LYS:CA	2.75	0.56
6:D6:612:VAL:HG12	6:D6:628:LEU:HD13	1.88	0.56
8:F1:982:PRO:HG2	11:I1:1388:GLU:HG2	1.88	0.56
8:F2:1336:GLU:N	8:F2:1336:GLU:OE1	2.36	0.56
11:I1:894:VAL:CG2	17:O1:238:ALA:N	2.38	0.56
11:I1:896:PRO:C	17:O1:232:LYS:HB3	2.30	0.56
11:I1:955:LYS:HD3	17:O1:249:ARG:HH22	1.67	0.56
11:I1:1037:THR:HG21	20:R1:173:LEU:HB2	0.57	0.56
11:I1:1041:GLN:N	15:M1:620:VAL:HG23	2.20	0.56
11:I1:1048:GLU:C	15:M1:622:VAL:HG11	2.31	0.56
11:I2:877:ILE:CA	17:O3:254:ARG:CB	2.64	0.56
11:I2:945:LEU:CD1	17:O3:254:ARG:O	2.54	0.56
11:I2:953:LEU:HD11	15:M3:606:LEU:CB	2.33	0.56
11:I2:994:ALA:HB2	17:O3:272:SER:H	1.70	0.56
11:I2:1100:ILE:C	16:N3:433:GLU:OE2	2.48	0.56
11:I3:8:GLU:N	11:I3:8:GLU:OE1	2.39	0.56
11:I4:1270:LYS:HD2	26:X3:530:ARG:CA	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O3:148:ARG:NH1	18:P3:325:ILE:C	2.64	0.56
21:S2:443:VAL:HG13	21:S2:445:ASN:CG	2.31	0.56
21:S3:940:GLU:OE1	21:S3:949:ALA:HA	2.06	0.56
21:S4:940:GLU:OE1	21:S4:949:ALA:HA	2.05	0.56
23:U2:280:SER:HB2	23:U2:284:SER:HB3	1.86	0.56
23:U3:207:SER:HG	24:V3:359:TYR:HH	1.54	0.56
23:U4:222:VAL:CG1	24:V4:256:VAL:HA	2.36	0.56
26:X1:536:LYS:O	26:X1:540:THR:OG1	2.20	0.56
26:X4:163:LYS:HB2	26:X4:172:PHE:CE1	2.41	0.56
28:Z1:101:SER:HA	28:Z1:123:LEU:HA	1.87	0.56
28:Z3:411:LEU:HG	30:b3:251:ILE:CD1	2.36	0.56
28:Z3:522:ASN:OD1	30:b3:241:PRO:CB	2.47	0.56
28:Z3:639:LEU:HD23	30:b3:232:PRO:HG3	1.88	0.56
28:Z4:288:VAL:HG12	28:Z4:300:MET:HB3	1.88	0.56
28:Z4:561:GLN:NE2	30:b4:237:LEU:CD1	2.60	0.56
1:A1:1332:ARG:O	6:D1:637:LYS:CG	2.54	0.56
2:A2:1055:ARG:N	6:D2:762:ARG:CA	2.69	0.56
2:A2:1156:ASP:OD1	3:A5:168:ASP:N	2.38	0.56
2:A4:779:ASP:OD2	6:D3:680:SER:CB	2.22	0.56
2:A4:781:ARG:HH21	6:D3:633:LYS:CD	2.13	0.56
2:A4:1135:ARG:NH1	3:A6:157:TRP:O	2.39	0.56
2:A4:1135:ARG:CB	3:A6:160:ILE:HG13	2.36	0.56
3:A5:1376:LEU:N	28:Z2:814:THR:CB	2.68	0.56
3:A6:189:VAL:HG21	5:C4:745:SER:HB3	1.69	0.56
6:D4:598:ILE:HD13	6:D4:608:ILE:CD1	2.34	0.56
6:D7:512:LEU:CB	11:I3:181:GLN:N	2.67	0.56
11:I1:465:GLU:N	11:I1:465:GLU:OE1	2.38	0.56
11:I1:747:GLU:N	11:I1:747:GLU:OE1	2.38	0.56
11:I1:877:ILE:HG22	17:O1:253:LEU:N	1.79	0.56
11:I1:980:ILE:HG21	15:M1:618:GLN:O	2.04	0.56
11:I1:1014:ASN:HB3	16:N1:413:VAL:C	2.31	0.56
11:I1:1038:ILE:CG1	20:R1:167:GLN:OE1	2.54	0.56
11:I1:1059:PRO:N	17:O1:277:GLU:HB2	1.99	0.56
11:I1:1065:SER:OG	16:N1:430:ARG:CD	2.53	0.56
11:I2:885:GLU:HA	16:N3:397:GLU:HB3	1.85	0.56
11:I2:924:ILE:HG12	15:M3:592:LEU:O	2.06	0.56
11:I2:1112:SER:HB3	12:J2:241:THR:HB	1.87	0.56
17:O2:111:TYR:CD1	18:P2:325:ILE:HG12	2.39	0.56
21:S1:443:VAL:HG13	21:S1:445:ASN:CG	2.30	0.56
21:S2:374:THR:OG1	21:S2:387:THR:OG1	2.24	0.56
21:S3:1020:LEU:HD22	21:S3:1020:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1032:ILE:HD12	21:S4:1051:ALA:CA	2.36	0.56
23:U4:210:MET:HE3	24:V4:322:LEU:HD22	1.88	0.56
27:Y1:41:ASP:HB2	29:a1:231[B]:HIS:HE1	1.65	0.56
28:Z1:561:GLN:HB3	30:b1:236:THR:O	2.05	0.56
28:Z3:524:VAL:N	30:b3:237:LEU:C	2.62	0.56
28:Z4:639:LEU:HD23	30:b4:232:PRO:HG3	1.88	0.56
1:A1:1332:ARG:CB	6:D1:636:ASP:CB	2.82	0.56
2:A2:238:ARG:HH12	4:B2:349:MET:HE1	1.71	0.56
2:A2:779:ASP:CG	6:D1:679:ILE:O	2.49	0.56
2:A4:171:HIS:CD2	6:D3:708:ASP:OD2	2.58	0.56
2:A4:238:ARG:HH12	4:B4:349:MET:HE1	1.71	0.56
2:A4:1019:ARG:HH12	6:D3:239:THR:CA	2.19	0.56
3:A5:232:LEU:HD12	5:C2:740:ARG:H	1.68	0.56
3:A5:1405:LEU:CA	28:Z2:918:PHE:N	2.67	0.56
3:A5:1411:ARG:HH21	26:X2:743:PHE:C	2.14	0.56
3:A5:1415:PHE:H	28:Z2:960:CYS:CA	2.18	0.56
3:A6:1392:ARG:HD2	28:Z4:901:ARG:N	2.21	0.56
9:G1:255:LEU:HD13	17:O2:258:GLU:CG	2.24	0.56
11:I1:877:ILE:HD12	17:O1:251:ILE:O	2.05	0.56
11:I1:935:GLY:H	15:M1:605:THR:H	1.54	0.56
11:I1:984:GLU:CB	15:M1:618:GLN:CD	2.77	0.56
11:I1:1018:LYS:H	16:N1:413:VAL:N	2.01	0.56
11:I2:937:TYR:CB	17:O3:258:GLU:HA	2.36	0.56
11:I2:948:ALA:CA	17:O3:253:LEU:O	2.54	0.56
11:I2:953:LEU:CD1	15:M3:602:MET:O	2.54	0.56
11:I2:1036:PRO:C	15:M3:620:VAL:O	2.49	0.56
11:I2:1048:GLU:C	15:M3:622:VAL:HG11	2.31	0.56
11:I2:1048:GLU:HG2	17:O3:288:GLU:CG	2.34	0.56
11:I4:717:GLU:N	11:I4:717:GLU:OE1	2.39	0.56
11:I4:1112:SER:HB3	12:J4:241:THR:HB	1.87	0.56
17:O4:111:TYR:OH	18:P4:321:ILE:CD1	2.54	0.56
21:S2:1032:ILE:HD12	21:S2:1051:ALA:CA	2.36	0.56
21:S3:384:ASP:OD1	21:S3:384:ASP:N	2.38	0.56
23:U1:237:ILE:HD11	23:U1:240:HIS:HA	1.87	0.56
24:V2:199:THR:HB	24:V2:213:GLU:HB2	1.87	0.56
26:X2:163:LYS:HB2	26:X2:172:PHE:CE1	2.41	0.56
26:X3:265:ILE:C	26:X3:267:ARG:H	2.12	0.56
28:Z1:232:ARG:NE	28:Z1:249:THR:OG1	2.39	0.56
28:Z1:555:LYS:CB	30:b1:233:TRP:CE3	2.88	0.56
28:Z1:561:GLN:HG3	30:b1:236:THR:N	2.17	0.56
28:Z2:411:LEU:HG	30:b2:251:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:554:PHE:CE2	30:b2:234:LEU:CA	2.84	0.56
28:Z3:659:TYR:OH	28:Z3:744:VAL:HA	2.05	0.56
29:a4:214[B]:THR:HG23	29:a4:252[B]:MET:HE2	1.88	0.56
30:b4:242:LEU:HD13	30:b4:305:PRO:HG3	1.88	0.56
1:A1:870:HIS:H	6:D3:280:GLN:CB	2.14	0.56
2:A2:866:SER:C	6:D1:598:ILE:HG23	2.17	0.56
2:A2:908:LEU:C	6:D1:552:TYR:CE1	2.83	0.56
2:A2:1156:ASP:H	3:A5:174:PRO:HA	1.70	0.56
2:A4:975:GLU:HA	6:D3:499:LEU:CA	2.35	0.56
2:A4:1148:ARG:CB	3:A6:173:ASN:OD1	2.53	0.56
3:A5:1414:PHE:O	28:Z2:962:LYS:N	2.31	0.56
3:A6:1316:VAL:CG1	28:Z4:871:HIS:HA	2.27	0.56
6:D7:481:ARG:HB3	11:I3:183:LYS:CE	2.30	0.56
9:G2:259:THR:O	17:O4:259:ASP:OD1	2.24	0.56
11:I1:880:MET:CB	17:O1:250:LEU:N	2.59	0.56
11:I1:911:PRO:C	15:M1:584:GLN:HE21	2.10	0.56
11:I1:958:THR:HB	16:N1:399:HIS:N	2.21	0.56
11:I1:996:LEU:HD23	16:N1:410:MET:CE	2.07	0.56
11:I2:94:GLU:N	11:I2:94:GLU:OE1	2.38	0.56
11:I2:747:GLU:OE1	11:I2:747:GLU:N	2.38	0.56
11:I2:900:ARG:HB2	17:O3:232:LYS:CD	2.19	0.56
11:I2:1037:THR:HG22	20:R3:173:LEU:HD23	1.88	0.56
21:S1:374:THR:OG1	21:S1:387:THR:OG1	2.24	0.56
22:T4:779:GLN:N	22:T4:780:PRO:HD3	2.19	0.56
25:W4:200:LEU:HD11	25:W4:243:TRP:CD1	2.41	0.56
26:X3:163:LYS:HB2	26:X3:172:PHE:CE1	2.41	0.56
27:Y2:219:SER:HG	27:Y2:312:TRP:CD1	2.24	0.56
28:Z1:438:GLU:CG	30:b1:333:HIS:HE1	2.16	0.56
28:Z1:524:VAL:N	30:b1:237:LEU:C	2.62	0.56
28:Z4:411:LEU:HG	30:b4:251:ILE:CD1	2.36	0.56
28:Z4:534:ASP:CB	30:b4:183:LEU:N	2.33	0.56
28:Z4:535:ILE:HD11	30:b4:182:PRO:HG3	1.86	0.56
2:A2:870:HIS:C	6:D1:566:PHE:O	2.49	0.55
2:A2:876:ARG:CZ	6:D1:559:ASP:H	2.19	0.55
2:A4:778:PHE:CB	6:D3:675:ARG:O	2.29	0.55
2:A4:967:GLU:C	6:D3:202:GLN:HB2	1.78	0.55
2:A4:1131:ILE:HG21	3:A6:137:HIS:O	2.05	0.55
2:A4:1131:ILE:C	3:A6:141:GLY:HA2	2.27	0.55
2:A4:1148:ARG:CB	3:A6:173:ASN:CA	2.62	0.55
2:A4:1159:ASP:CB	4:B6:342:ARG:N	2.58	0.55
6:D6:585:GLY:O	6:D6:631:LEU:HD11	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:257:ARG:NH2	8:F1:285:GLU:OE1	2.39	0.55
11:I1:873:ILE:HG23	17:O1:254:ARG:HG2	1.62	0.55
11:I1:899:LEU:CD1	17:O1:230:ILE:C	2.78	0.55
11:I1:942:HIS:N	17:O1:260:LEU:HA	2.21	0.55
11:I1:1058:GLY:O	17:O1:277:GLU:OE2	0.56	0.55
11:I1:1109:LEU:HB3	16:N1:441:PHE:CG	2.40	0.55
11:I2:983:LEU:HD21	15:M3:604:ASN:HD22	1.70	0.55
11:I2:989:GLY:N	15:M3:614:ASP:CB	2.69	0.55
11:I2:990:GLU:CB	17:O3:272:SER:CA	2.51	0.55
11:I2:1040:HIS:NE2	16:N3:437:VAL:CG2	2.70	0.55
11:I2:1051:LYS:HB2	17:O3:289:ASP:N	2.21	0.55
11:I5:354:ASP:OD1	11:I5:355:GLU:N	2.38	0.55
17:O1:103:VAL:HG13	18:P1:326:GLN:HE22	1.60	0.55
17:O3:147:ALA:HB3	18:P3:328:PRO:HG3	1.86	0.55
17:O4:109:PRO:N	18:P4:318:PRO:HB3	2.20	0.55
21:S1:940:GLU:OE1	21:S1:949:ALA:HA	2.05	0.55
22:T4:680:PHE:O	22:T4:682:PRO:HD3	2.06	0.55
23:U2:210:MET:O	24:V2:325:TYR:OH	2.21	0.55
24:V3:199:THR:HB	24:V3:213:GLU:HB2	1.87	0.55
28:Z1:659:TYR:OH	28:Z1:744:VAL:HA	2.05	0.55
28:Z2:288:VAL:HG12	28:Z2:300:MET:HB3	1.87	0.55
28:Z2:639:LEU:HD23	30:b2:232:PRO:HG3	1.88	0.55
30:b3:242:LEU:HD13	30:b3:305:PRO:HG3	1.88	0.55
2:A2:978:ASP:OD2	6:D1:473:GLU:O	2.24	0.55
2:A2:987:LYS:CE	6:D1:555:ARG:N	2.68	0.55
2:A2:1125:LEU:CA	3:A5:136:GLU:HB2	2.37	0.55
1:A3:1197:ALA:CB	2:A4:728:LYS:HZ2	2.20	0.55
2:A4:908:LEU:CA	6:D3:552:TYR:CZ	2.87	0.55
2:A4:988:ARG:HH22	6:D3:499:LEU:N	2.01	0.55
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CB	2.37	0.55
3:A5:1391:ARG:CZ	28:Z2:868:GLN:HA	2.37	0.55
3:A6:164:LEU:CD2	5:C4:742:ASP:CG	2.31	0.55
6:D1:585:GLY:O	6:D1:631:LEU:HD11	2.06	0.55
8:F2:69:LYS:N	8:F2:106:ASN:OD1	2.39	0.55
8:F2:171:PHE:O	8:F2:180:ARG:NH2	2.36	0.55
8:F2:1290:VAL:HG12	8:F2:1290:VAL:O	2.06	0.55
9:G1:263:MET:CA	16:N2:411:GLN:HB3	2.16	0.55
11:I1:965:ALA:HB3	20:R1:164:PRO:CA	2.35	0.55
11:I2:947:LEU:HD23	16:N3:408:MET:HA	1.88	0.55
17:O3:155:VAL:CB	18:P3:321:ILE:HG21	2.21	0.55
23:U1:34:ASP:HB3	23:U1:35:PRO:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:155:SER:HA	24:V1:351:ILE:HA	1.88	0.55
23:U1:222:VAL:CG1	24:V1:256:VAL:HA	2.36	0.55
23:U4:410:SER:HA	23:U4:436:LEU:HD11	1.88	0.55
24:V2:359:TYR:HA	24:V2:362:LEU:HD12	1.86	0.55
25:W3:49:LEU:HB3	25:W3:82:TRP:CZ3	2.42	0.55
28:Z1:555:LYS:CB	30:b1:213:ASP:N	2.70	0.55
29:a2:13:ILE:HG13	29:a2:372[B]:ILE:HD11	1.88	0.55
2:A2:1156:ASP:CG	3:A5:168:ASP:H	2.14	0.55
1:A3:1233:GLN:OE1	2:A4:726:ALA:HB1	2.06	0.55
2:A4:173:ASN:ND2	6:D3:762:ARG:CB	2.63	0.55
2:A4:864:ARG:H	6:D3:607:PRO:CD	2.20	0.55
2:A4:870:HIS:O	6:D3:569:CYS:CB	2.53	0.55
2:A4:909:LYS:HG2	6:D3:552:TYR:CG	2.37	0.55
2:A4:1130:ARG:C	3:A6:161[A]:ASP:CG	2.74	0.55
2:A4:1277:TRP:CG	2:A4:1278:PRO:HD3	2.41	0.55
3:A5:233:THR:CG2	5:C2:737:LYS:CG	2.84	0.55
3:A6:180:GLU:CA	5:C4:744:PHE:HZ	2.04	0.55
8:F1:69:LYS:N	8:F1:106:ASN:OD1	2.39	0.55
8:F1:1138:TRP:HB3	17:O2:244:GLU:CB	2.03	0.55
8:F1:1266:MET:H	17:O2:262:ASP:CB	2.18	0.55
9:G1:257:THR:CA	17:O2:253:LEU:N	2.11	0.55
9:G2:255:LEU:CA	17:O4:262:ASP:CG	2.75	0.55
11:I1:881:ILE:CB	17:O1:249:ARG:C	2.76	0.55
11:I1:921:GLU:C	15:M1:592:LEU:C	2.73	0.55
11:I1:939:ASN:CA	17:O1:264:ILE:C	2.80	0.55
11:I1:1049:LEU:HA	15:M1:622:VAL:HG12	1.88	0.55
11:I2:899:LEU:N	17:O3:235:ASN:O	2.29	0.55
11:I2:924:ILE:CD1	15:M3:595:MET:HG2	2.27	0.55
11:I2:1109:LEU:CD1	17:O3:290:TYR:CZ	2.82	0.55
11:I4:1276:GLN:HG3	26:X3:538:ILE:HG13	1.88	0.55
21:S1:122:LYS:HG2	21:S1:141:GLU:OE2	2.07	0.55
21:S1:1032:ILE:HD12	21:S1:1051:ALA:CA	2.36	0.55
21:S4:176:MET:HE1	21:S4:232:LEU:HD13	1.89	0.55
22:T4:669:ARG:HA	22:T4:672:ILE:HG22	1.87	0.55
23:U2:34:ASP:HB3	23:U2:35:PRO:HD3	1.88	0.55
23:U2:210:MET:HE3	24:V2:322:LEU:HD22	1.88	0.55
25:W2:49:LEU:HB3	25:W2:82:TRP:CZ3	2.42	0.55
26:X1:159:ILE:HG21	26:X1:176:GLU:HG2	1.87	0.55
27:Y4:41:ASP:HB2	29:a4:231[B]:HIS:HE1	1.64	0.55
28:Z2:526:ARG:HB3	30:b2:206:ASN:HB2	1.79	0.55
28:Z2:526:ARG:CB	30:b2:206:ASN:CB	2.66	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:A2:973:GLU:HB3	6:D1:498:GLU:CB	2.37	0.55
2:A2:989:MSE:HE3	6:D1:239:THR:O	2.06	0.55
2:A2:1137:ALA:HB1	3:A5:564:ASN:CA	2.37	0.55
2:A2:1157:TYR:CD1	3:A5:176:LEU:CD2	2.89	0.55
2:A2:1305:ALA:HB3	2:A2:1306:PRO:CD	2.36	0.55
1:A3:1203:TYR:CB	2:A4:732:GLN:OE1	2.54	0.55
3:A5:230:LYS:O	5:C2:739:MET:O	2.25	0.55
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CB	2.31	0.55
3:A6:1383:ASP:O	28:Z4:863:ASP:CB	2.55	0.55
6:D3:612:VAL:HG12	6:D3:628:LEU:HD13	1.88	0.55
6:D4:585:GLY:O	6:D4:631:LEU:HD11	2.07	0.55
11:I1:833:PHE:CD2	17:O1:237:PRO:O	2.59	0.55
11:I1:922:ASP:HB2	15:M1:592:LEU:HD23	1.88	0.55
11:I1:1037:THR:CG2	20:R1:170:LEU:H	2.16	0.55
11:I1:1048:GLU:CD	20:R1:143:PHE:CG	2.53	0.55
11:I2:976:ARG:CB	20:R3:149:ARG:HB2	2.34	0.55
11:I2:990:GLU:OE1	15:M3:611:LYS:CD	2.50	0.55
11:I2:1031:ALA:CB	20:R3:173:LEU:HA	2.35	0.55
11:I2:1032:THR:CB	20:R3:173:LEU:CD1	2.69	0.55
11:I2:1051:LYS:NZ	17:O3:285:LYS:NZ	2.54	0.55
11:I2:1104:LEU:HB3	16:N3:436:ALA:H	1.70	0.55
11:I3:1275:SER:CB	26:X1:508:LEU:CD1	2.84	0.55
11:I4:1284:GLU:N	11:I4:1284:GLU:OE1	2.38	0.55
21:S2:1020:LEU:HD22	21:S2:1020:LEU:H	1.70	0.55
26:X4:70:LYS:HD2	27:Y4:15:VAL:O	2.07	0.55
27:Y2:42:THR:O	27:Y2:44:ASN:N	2.31	0.55
28:Z1:91:LYS:NZ	28:Z1:142:ALA:O	2.30	0.55
28:Z2:245:ILE:HG21	28:Z2:311:LEU:HD23	1.88	0.55
1:A1:1221:ILE:HG22	2:A2:645:PHE:H	0.61	0.55
2:A2:826:ASN:O	6:D1:632:ALA:O	2.25	0.55
2:A2:1128:ASP:H	3:A5:137:HIS:N	2.04	0.55
2:A2:1148:ARG:NH1	3:A5:171:HIS:O	2.38	0.55
1:A3:1084:ARG:HA	6:D3:794:THR:HA	1.89	0.55
2:A4:989:MSE:CE	6:D3:242:LEU:N	2.52	0.55
3:A5:996:ASN:HD21	11:I5:58:ALA:HB3	1.62	0.55
3:A6:232:LEU:CB	5:C4:736:ASN:O	2.46	0.55
8:F1:1094:GLY:C	17:O2:237:PRO:CB	2.79	0.55
11:I1:885:GLU:OE2	17:O1:249:ARG:NE	2.39	0.55
11:I2:930:LEU:HG	15:M3:602:MET:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:939:ASN:CA	17:O3:264:ILE:O	2.38	0.55
11:I2:953:LEU:CD1	15:M3:606:LEU:CB	2.69	0.55
11:I2:966:TRP:C	20:R3:153:GLN:CG	2.79	0.55
11:I2:995:SER:H	17:O3:271:GLU:CB	2.15	0.55
11:I2:1021:ILE:O	16:N3:406:HIS:CE1	2.59	0.55
11:I2:1021:ILE:C	16:N3:406:HIS:CE1	2.85	0.55
11:I2:1109:LEU:CA	17:O3:290:TYR:CZ	2.90	0.55
11:I4:1112:SER:CB	12:J4:241:THR:HB	2.37	0.55
15:M4:598:GLU:OE1	17:O4:254:ARG:NH1	2.40	0.55
21:S4:374:THR:OG1	21:S4:387:THR:OG1	2.24	0.55
22:T1:680:PHE:O	22:T1:682:PRO:HD3	2.07	0.55
23:U4:155:SER:HA	24:V4:351:ILE:HA	1.88	0.55
26:X2:280:VAL:HG21	26:X2:321:ALA:HB3	1.89	0.55
26:X3:461:MET:O	26:X3:465:MET:HG3	2.07	0.55
28:Z2:534:ASP:CG	30:b2:183:LEU:H	2.08	0.55
28:Z3:526:ARG:HD3	30:b3:207:GLY:CA	2.36	0.55
28:Z3:534:ASP:OD2	30:b3:183:LEU:CA	2.53	0.55
29:a2:214[B]:THR:HG23	29:a2:252[B]:MET:HE2	1.88	0.55
29:a2:358[A]:VAL:HG13	29:a2:363[A]:LEU:HD23	1.89	0.55
29:a4:358[A]:VAL:HG13	29:a4:363[A]:LEU:HD23	1.89	0.55
30:b1:21:TRP:CZ3	30:b1:366:HIS:HD2	2.24	0.55
30:b4:21:TRP:CZ3	30:b4:366:HIS:HD2	2.24	0.55
1:A1:1224:PRO:HG3	2:A2:731:ILE:CD1	2.37	0.55
2:A2:238:ARG:HH12	4:B2:349:MET:CE	2.19	0.55
2:A2:782:VAL:CA	6:D1:677:GLN:HA	2.36	0.55
2:A2:825:ARG:HH12	6:D1:679:ILE:HD13	1.68	0.55
2:A2:1122:LEU:CD1	3:A5:135:PHE:CD2	2.70	0.55
2:A2:1137:ALA:CB	3:A5:564:ASN:O	2.48	0.55
2:A2:1156:ASP:HB3	3:A5:167:TRP:HB2	1.89	0.55
1:A3:1056:PHE:HZ	6:D3:807:THR:O	1.83	0.55
1:A3:1204:TRP:HB2	2:A4:731:ILE:C	2.30	0.55
2:A4:867:GLU:CG	6:D3:605:THR:OG1	2.45	0.55
2:A4:868:GLN:OE1	6:D3:570:VAL:CB	2.54	0.55
2:A4:875:LEU:HD11	6:D3:567:LEU:CD2	2.19	0.55
2:A4:878:LEU:CD1	6:D3:607:PRO:HG2	2.36	0.55
6:D7:585:GLY:O	6:D7:631:LEU:HD11	2.07	0.55
11:I1:882:LYS:N	17:O1:246:LEU:HA	2.21	0.55
11:I1:949:CYS:N	17:O1:253:LEU:C	2.65	0.55
11:I2:8:GLU:N	11:I2:8:GLU:OE1	2.39	0.55
11:I2:877:ILE:CA	17:O3:254:ARG:HB3	2.21	0.55
11:I2:900:ARG:CA	17:O3:232:LYS:CE	2.58	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1046:HIS:H	17:O3:280:GLU:C	2.14	0.55
11:I3:747:GLU:N	11:I3:747:GLU:OE1	2.38	0.55
11:I5:747:GLU:N	11:I5:747:GLU:OE1	2.38	0.55
21:S2:122:LYS:HG2	21:S2:141:GLU:OE2	2.07	0.55
26:X1:163:LYS:HB2	26:X1:172:PHE:CE1	2.41	0.55
26:X3:280:VAL:HG21	26:X3:321:ALA:HB3	1.89	0.55
28:Z3:245:ILE:HG21	28:Z3:311:LEU:HD23	1.88	0.55
30:b2:166:LEU:HD22	30:b2:202:VAL:HG21	1.87	0.55
1:A3:1091:VAL:HB	6:D3:803:THR:O	2.07	0.55
1:A3:1098:ARG:NH1	11:I2:1411:ILE:O	2.40	0.55
2:A4:858:ALA:C	6:D3:606:LYS:HE2	2.31	0.55
2:A4:1139:ILE:HD11	3:A6:160:ILE:HD11	1.88	0.55
2:A4:1157:TYR:CB	3:A6:133:LYS:HE2	2.35	0.55
3:A5:232:LEU:C	5:C2:737:LYS:O	2.49	0.55
3:A6:1397:LEU:HD21	28:Z4:907:LEU:C	2.16	0.55
3:A6:1416:ARG:O	28:Z4:976:ALA:C	2.49	0.55
8:F1:1138:TRP:HB3	17:O2:244:GLU:OE1	2.06	0.55
8:F1:1556:GLN:N	8:F1:1630:GLU:OE1	2.40	0.55
8:F2:257:ARG:NH2	8:F2:285:GLU:OE1	2.39	0.55
11:I1:8:GLU:N	11:I1:8:GLU:OE1	2.39	0.55
11:I1:877:ILE:C	17:O1:252:VAL:N	2.30	0.55
11:I1:945:LEU:CD2	17:O1:258:GLU:N	2.70	0.55
11:I1:948:ALA:HB3	17:O1:252:VAL:O	2.06	0.55
11:I1:976:ARG:HB2	20:R1:149:ARG:CB	2.21	0.55
11:I1:994:ALA:CB	17:O1:267:ALA:O	2.55	0.55
11:I1:1018:LYS:N	16:N1:412:ASN:HB3	2.21	0.55
11:I1:1111:ALA:N	16:N1:439:ARG:N	2.42	0.55
11:I2:898:VAL:H	17:O3:236:ASP:HA	1.72	0.55
11:I2:982:GLN:O	15:M3:612:PRO:O	2.24	0.55
11:I2:983:LEU:O	15:M3:613:ASP:N	2.16	0.55
11:I3:844:LYS:CE	29:a2:351:LEU:HD11	2.36	0.55
11:I3:1112:SER:CB	12:J3:241:THR:HB	2.37	0.55
21:S3:374:THR:OG1	21:S3:387:THR:OG1	2.24	0.55
23:U2:163:ARG:HD3	24:V2:292:ILE:HD11	1.88	0.55
24:V2:156:THR:HG22	24:V2:514:ARG:HD2	1.88	0.55
28:Z1:534:ASP:CB	30:b1:183:LEU:N	2.33	0.55
29:a3:13:ILE:HG13	29:a3:372[B]:ILE:HD11	1.89	0.55
30:b2:242:LEU:HD13	30:b2:305:PRO:HG3	1.88	0.55
2:A2:908:LEU:HA	6:D1:601:PHE:HB3	1.88	0.55
2:A2:970:PHE:CE1	6:D1:196:ILE:HD12	2.39	0.55
3:A5:1403:MSE:HB3	28:Z2:920:SER:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:540:GLU:N	8:F2:540:GLU:OE1	2.37	0.55
8:F2:650:ASN:OD1	8:F2:651:THR:N	2.40	0.55
11:I1:919:ALA:CA	15:M1:592:LEU:HD22	2.35	0.55
11:I1:990:GLU:HG3	15:M1:614:ASP:CB	2.34	0.55
11:I1:1036:PRO:CA	15:M1:623:LEU:C	2.79	0.55
11:I2:843:GLU:N	15:M3:587:GLU:OE2	2.38	0.55
11:I2:847:THR:HG23	15:M3:594:LYS:CE	2.37	0.55
11:I2:899:LEU:CG	17:O3:235:ASN:CB	2.85	0.55
11:I2:951:LYS:HG3	16:N3:400:LEU:O	2.07	0.55
11:I2:1025:LEU:HD22	20:R3:170:LEU:CD1	2.37	0.55
11:I4:354:ASP:OD1	11:I4:355:GLU:N	2.38	0.55
23:U1:163:ARG:HD3	24:V1:292:ILE:HD11	1.88	0.55
23:U3:34:ASP:HB3	23:U3:35:PRO:HD3	1.88	0.55
23:U3:222:VAL:CG1	24:V3:256:VAL:HA	2.36	0.55
28:Z1:245:ILE:HG21	28:Z1:311:LEU:HD23	1.88	0.55
28:Z2:561:GLN:CB	30:b2:235:LEU:C	2.61	0.55
28:Z4:555:LYS:CB	30:b4:213:ASP:N	2.70	0.55
30:b2:21:TRP:CZ3	30:b2:366:HIS:HD2	2.24	0.55
30:b3:21:TRP:CZ3	30:b3:366:HIS:HD2	2.24	0.55
1:A3:1056:PHE:HZ	6:D3:811:LEU:H	1.54	0.55
1:A3:1199:GLN:N	2:A4:729:SER:HB3	2.22	0.55
2:A4:779:ASP:OD1	6:D3:674:TYR:O	2.20	0.55
2:A4:870:HIS:NE2	6:D3:566:PHE:HD1	2.05	0.55
3:A5:1395:LYS:HG2	28:Z2:873:LEU:H	0.57	0.55
3:A6:1354:TRP:O	28:Z4:877:ILE:C	2.49	0.55
3:A6:1395:LYS:CD	28:Z4:893:HIS:N	2.65	0.55
9:G2:263:MET:CE	17:O4:259:ASP:OD2	2.51	0.55
11:I1:898:VAL:CG2	17:O1:236:ASP:HA	2.37	0.55
11:I1:920:PHE:HE1	17:O1:247:TRP:HE1	1.13	0.55
11:I1:1014:ASN:C	16:N1:411:GLN:O	2.49	0.55
11:I1:1635:HIS:CE1	11:I2:1677:LYS:CD	2.76	0.55
11:I2:833:PHE:CE1	17:O3:241:SER:O	2.60	0.55
11:I2:931:VAL:CA	15:M3:600:ASN:O	2.54	0.55
11:I2:968:PRO:HG2	20:R3:149:ARG:NH1	2.22	0.55
11:I2:1609:GLY:CA	12:J1:295:TYR:CE1	2.89	0.55
11:I4:94:GLU:N	11:I4:94:GLU:OE1	2.38	0.55
11:I4:1275:SER:HB3	26:X3:521:TRP:C	2.31	0.55
21:S3:1052:LEU:HD21	21:S3:1073:ILE:CD1	2.32	0.55
21:S4:1020:LEU:HD22	21:S4:1020:LEU:H	1.70	0.55
24:V3:180:LEU:HD11	24:V3:478:PHE:HE1	1.71	0.55
27:Y3:41:ASP:HA	29:a3:231[B]:HIS:NE2	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:531:LYS:HD3	30:b1:183:LEU:CB	1.97	0.55
28:Z3:288:VAL:HG12	28:Z3:300:MET:HB3	1.88	0.55
2:A2:904:GLN:HB3	6:D1:603:SER:H	1.72	0.55
2:A2:1136:LYS:N	3:A5:134:VAL:CG1	2.70	0.55
2:A4:904:GLN:HG2	6:D3:603:SER:CB	2.32	0.55
2:A4:985:ALA:CA	6:D3:500:LYS:CA	2.83	0.55
2:A4:1159:ASP:O	4:B6:343:LYS:HA	2.07	0.55
3:A5:1055:ARG:NH2	11:I5:4:LEU:O	2.40	0.55
6:D2:585:GLY:O	6:D2:631:LEU:HD11	2.06	0.55
6:D3:585:GLY:O	6:D3:631:LEU:HD11	2.06	0.55
8:F1:650:ASN:OD1	8:F1:651:THR:N	2.40	0.55
8:F1:1261:TYR:O	17:O2:262:ASP:C	2.50	0.55
9:G1:258:LYS:NZ	16:N2:408:MET:HE3	2.22	0.55
11:I1:880:MET:CE	17:O1:247:TRP:HZ3	2.15	0.55
11:I1:952:LEU:CD1	15:M1:599:ILE:HG12	2.34	0.55
11:I1:1013:GLU:O	16:N1:412:ASN:N	2.40	0.55
11:I2:837:MET:CA	17:O3:244:GLU:H	2.09	0.55
11:I2:1043:LEU:N	15:M3:616:LEU:HD13	2.20	0.55
11:I4:775:ASP:HA	29:a4:40[A]:GLU:OE2	2.06	0.55
11:I4:1273:GLU:O	26:X3:526:CYS:HB2	2.06	0.55
15:M2:598:GLU:OE1	17:O2:254:ARG:NH1	2.40	0.55
21:S1:1020:LEU:HD22	21:S1:1020:LEU:H	1.70	0.55
23:U4:350:VAL:HG22	23:U4:355:LEU:HD22	1.89	0.55
25:W2:200:LEU:HD11	25:W2:243:TRP:CD1	2.41	0.55
25:W4:49:LEU:HB3	25:W4:82:TRP:CZ3	2.42	0.55
27:Y1:128:LEU:HD23	27:Y1:169:PHE:HB3	1.89	0.55
28:Z1:530:LYS:HZ3	30:b1:164:CYS:HA	1.70	0.55
28:Z2:232:ARG:NE	28:Z2:249:THR:OG1	2.39	0.55
28:Z2:524:VAL:N	30:b2:237:LEU:C	2.62	0.55
28:Z3:232:ARG:NE	28:Z3:249:THR:OG1	2.39	0.55
28:Z3:522:ASN:ND2	30:b3:241:PRO:N	2.51	0.55
29:a1:214[B]:THR:HG23	29:a1:252[B]:MET:HE2	1.88	0.55
29:a2:9:VAL:HG11	29:a2:372[A]:ILE:HD12	1.90	0.55
2:A2:968:SER:O	6:D1:203:PRO:CD	2.55	0.54
2:A2:1055:ARG:N	6:D2:762:ARG:CB	2.60	0.54
2:A2:1136:LYS:HE2	3:A5:137:HIS:CB	1.92	0.54
1:A3:1223:GLU:HB3	2:A4:724:LEU:HD21	1.88	0.54
2:A4:879:LEU:HG	6:D3:567:LEU:CD1	2.36	0.54
2:A4:987:LYS:HG3	6:D3:497:PHE:CZ	2.42	0.54
3:A5:998:SER:O	11:I5:63:PRO:CD	2.53	0.54
3:A6:1327:VAL:CG2	28:Z4:912:ASP:N	2.59	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D4:612:VAL:HG12	6:D4:628:LEU:HD13	1.88	0.54
8:F1:1093:LEU:HG	17:O2:241:SER:CA	2.32	0.54
8:F1:1262:HIS:CD2	17:O2:259:ASP:CG	2.83	0.54
8:F1:1262:HIS:CD2	17:O2:259:ASP:CB	2.90	0.54
11:I1:896:PRO:HA	17:O1:232:LYS:C	2.32	0.54
11:I1:992:ILE:N	15:M1:608:LYS:CA	2.40	0.54
11:I1:1061:ASP:CA	17:O1:279:ILE:HD12	2.36	0.54
11:I1:1602:PHE:CD1	11:I2:1666:THR:HG21	2.43	0.54
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CG	2.70	0.54
11:I2:958:THR:H	16:N3:399:HIS:CE1	2.19	0.54
11:I2:1109:LEU:CD2	17:O3:290:TYR:CE2	2.89	0.54
11:I3:94:GLU:N	11:I3:94:GLU:OE1	2.38	0.54
11:I5:624:GLU:O	11:I5:627:ASN:ND2	2.40	0.54
22:T2:680:PHE:O	22:T2:682:PRO:HD3	2.06	0.54
23:U3:210:MET:O	24:V3:325:TYR:OH	2.21	0.54
25:W1:200:LEU:HD11	25:W1:243:TRP:CD1	2.41	0.54
25:W3:200:LEU:HD11	25:W3:243:TRP:CD1	2.41	0.54
26:X3:60:LYS:C	26:X3:62:GLY:H	2.14	0.54
26:X4:461:MET:O	26:X4:465:MET:HG3	2.07	0.54
27:Y3:29:SER:C	27:Y3:31:GLN:H	2.13	0.54
28:Z1:534:ASP:OD2	30:b1:183:LEU:CA	2.53	0.54
28:Z2:102:MET:HB3	28:Z2:107:THR:HG21	1.89	0.54
29:a3:358[A]:VAL:HG13	29:a3:363[A]:LEU:HD23	1.89	0.54
29:a4:9:VAL:HG11	29:a4:372[A]:ILE:HD12	1.89	0.54
2:A2:973:GLU:CB	6:D1:498:GLU:CB	2.85	0.54
2:A2:987:LYS:HE2	6:D1:555:ARG:N	2.21	0.54
2:A4:1160:GLN:NE2	3:A6:177:ILE:CB	2.65	0.54
2:A4:1305:ALA:HB3	2:A4:1306:PRO:CD	2.36	0.54
3:A5:1000:ASP:N	11:I5:62:GLU:CB	2.70	0.54
3:A5:1027:HIS:CE1	11:I5:65:LYS:C	2.81	0.54
3:A6:1370:ALA:HB1	28:Z4:864:PHE:CB	2.36	0.54
3:A6:1388:ALA:CA	28:Z4:866:GLU:N	2.49	0.54
3:A6:1414:PHE:CB	28:Z4:964:LEU:HA	2.37	0.54
6:D1:612:VAL:HG12	6:D1:628:LEU:HD13	1.88	0.54
6:D2:612:VAL:HG12	6:D2:628:LEU:HD13	1.88	0.54
8:F2:1556:GLN:N	8:F2:1630:GLU:OE1	2.40	0.54
9:G1:260:THR:CG2	17:O2:259:ASP:CG	2.80	0.54
9:G1:263:MET:CG	17:O2:260:LEU:HD22	2.37	0.54
11:I1:843:GLU:HG2	15:M1:587:GLU:OE1	2.05	0.54
11:I1:899:LEU:HD11	17:O1:230:ILE:O	2.08	0.54
11:I2:797:LEU:CG	17:O3:245:GLU:HA	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:922:ASP:N	15:M3:592:LEU:HG	2.21	0.54
11:I2:935:GLY:C	17:O3:261:LYS:HE2	1.72	0.54
11:I2:976:ARG:HB3	20:R3:149:ARG:CA	2.33	0.54
11:I2:1040:HIS:CG	16:N3:434:LEU:HD13	2.38	0.54
11:I3:77:GLU:OE1	11:I3:77:GLU:N	2.38	0.54
11:I5:8:GLU:N	11:I5:8:GLU:OE1	2.39	0.54
21:S1:176:MET:HE1	21:S1:232:LEU:HD13	1.89	0.54
21:S2:176:MET:CE	21:S2:232:LEU:CD1	2.85	0.54
23:U1:410:SER:HA	23:U1:436:LEU:HD11	1.89	0.54
23:U3:163:ARG:HD3	24:V3:292:ILE:HD11	1.88	0.54
23:U3:210:MET:HE3	24:V3:322:LEU:HD22	1.88	0.54
23:U4:163:ARG:HD3	24:V4:292:ILE:HD11	1.88	0.54
25:W1:95:HIS:CE1	25:W1:97:VAL:HG22	2.42	0.54
25:W2:236:GLN:HB2	25:W2:243:TRP:CE3	2.42	0.54
25:W4:95:HIS:CE1	25:W4:97:VAL:HG22	2.42	0.54
26:X1:60:LYS:C	26:X1:62:GLY:H	2.14	0.54
26:X1:461:MET:O	26:X1:465:MET:HG3	2.07	0.54
28:Z1:639:LEU:HD23	30:b1:232:PRO:HG3	1.88	0.54
28:Z3:527:SER:C	30:b3:184:SER:HG	2.15	0.54
28:Z4:560:ASN:ND2	30:b4:211:ILE:HG21	2.14	0.54
29:a3:9:VAL:HG11	29:a3:372[A]:ILE:HD12	1.89	0.54
2:A2:226:PRO:HG2	6:D1:711:PHE:N	2.23	0.54
2:A2:781:ARG:HG3	6:D1:673:ARG:HA	1.87	0.54
2:A2:1164:TYR:C	4:B5:342:ARG:HH11	2.06	0.54
2:A4:779:ASP:O	6:D3:679:ILE:CG1	2.54	0.54
2:A4:985:ALA:CB	6:D3:497:PHE:HA	2.37	0.54
2:A4:1118:GLN:HG3	3:A6:132:ASP:HB2	1.86	0.54
3:A5:227:SER:CB	5:C2:734:VAL:HG11	2.35	0.54
3:A6:1405:LEU:HD22	28:Z4:921:THR:N	2.20	0.54
8:F2:1491:ARG:NE	9:G2:282:ASN:OD1	2.41	0.54
11:I1:885:GLU:OE2	17:O1:249:ARG:CZ	2.54	0.54
11:I1:949:CYS:CA	17:O1:253:LEU:O	2.54	0.54
11:I1:1034:ASP:HB3	16:N1:444:SER:HB2	1.88	0.54
11:I2:884:LEU:CD1	16:N3:400:LEU:CD2	2.85	0.54
11:I2:1029:LEU:HD21	20:R3:170:LEU:HD22	1.86	0.54
11:I2:1070:LEU:HD12	16:N3:429:GLU:C	2.32	0.54
11:I2:1105:TRP:CG	16:N3:432:TYR:CZ	2.78	0.54
11:I3:1275:SER:CB	26:X1:522:MET:O	2.52	0.54
11:I4:747:GLU:N	11:I4:747:GLU:OE1	2.38	0.54
11:I5:717:GLU:N	11:I5:717:GLU:OE1	2.39	0.54
17:O4:110:LEU:HB3	18:P4:321:ILE:CG2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:1028:ALA:HB3	21:S1:1029:PRO:HD3	1.89	0.54
21:S3:122:LYS:HG2	21:S3:141:GLU:OE2	2.07	0.54
21:S4:122:LYS:HG2	21:S4:141:GLU:OE2	2.07	0.54
21:S4:882:GLN:C	21:S4:884:ARG:H	2.16	0.54
22:T3:680:PHE:O	22:T3:682:PRO:HD3	2.06	0.54
23:U2:222:VAL:CG1	24:V2:256:VAL:HA	2.36	0.54
25:W2:95:HIS:CE1	25:W2:97:VAL:HG22	2.42	0.54
26:X1:280:VAL:HG21	26:X1:321:ALA:HB3	1.89	0.54
26:X2:70:LYS:HD2	27:Y2:15:VAL:O	2.07	0.54
28:Z3:561:GLN:HG3	30:b3:236:THR:N	2.17	0.54
29:a1:358[A]:VAL:HG13	29:a1:363[A]:LEU:HD23	1.89	0.54
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD2	2.87	0.54
2:A2:859:GLN:C	6:D1:606:LYS:HD3	2.13	0.54
2:A2:873:PRO:HA	6:D1:563:GLU:HB2	1.88	0.54
2:A2:874:VAL:HG22	6:D1:611:LYS:CE	2.36	0.54
1:A3:1197:ALA:CB	2:A4:728:LYS:HZ3	2.16	0.54
2:A4:780:GLU:OE2	6:D3:679:ILE:HG21	2.07	0.54
2:A4:861:GLN:NE2	6:D3:607:PRO:CA	2.70	0.54
2:A4:879:LEU:HG	6:D3:567:LEU:HG	1.89	0.54
2:A4:908:LEU:HG	6:D3:601:PHE:C	2.32	0.54
2:A4:982:THR:CG2	6:D3:493:ALA:C	2.57	0.54
2:A4:1138:GLU:HA	3:A6:147:LEU:CD1	2.30	0.54
3:A6:1387:ILE:C	28:Z4:864:PHE:C	2.75	0.54
6:D5:585:GLY:O	6:D5:631:LEU:HD11	2.06	0.54
8:F1:1262:HIS:CE1	17:O2:255:GLY:O	2.44	0.54
11:I1:846:ILE:HG12	15:M1:591:ASP:CB	2.37	0.54
11:I1:924:ILE:CD1	15:M1:596:ILE:HG13	2.35	0.54
11:I1:928:LEU:HD23	20:R1:154:ALA:O	1.98	0.54
11:I1:937:TYR:CD2	15:M1:602:MET:SD	3.00	0.54
11:I1:987:GLY:HA2	15:M1:614:ASP:CA	2.38	0.54
11:I2:877:ILE:C	17:O3:253:LEU:H	2.16	0.54
11:I2:928:LEU:HD21	20:R3:155:GLU:HB2	1.89	0.54
11:I2:945:LEU:HD11	17:O3:258:GLU:CG	2.30	0.54
11:I2:945:LEU:CA	17:O3:255:GLY:O	2.47	0.54
11:I2:980:ILE:HA	15:M3:617:THR:C	2.33	0.54
11:I2:1029:LEU:CA	20:R3:173:LEU:N	2.69	0.54
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH1	2.30	0.54
11:I4:1277:LEU:CG	26:X3:521:TRP:CE3	2.89	0.54
11:I5:1112:SER:CB	12:J5:241:THR:HB	2.37	0.54
11:I5:1425:TYR:OH	11:I5:1482:ASP:OD2	2.23	0.54
17:O3:155:VAL:HG23	18:P3:321:ILE:HD13	0.62	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:906:GLU:O	22:T4:910:MET:HE2	2.08	0.54
23:U2:155:SER:HA	24:V2:351:ILE:HA	1.88	0.54
23:U3:155:SER:HA	24:V3:351:ILE:HA	1.88	0.54
23:U3:410:SER:HA	23:U3:436:LEU:HD11	1.89	0.54
24:V1:180:LEU:HD11	24:V1:478:PHE:HE1	1.71	0.54
24:V2:180:LEU:HD11	24:V2:478:PHE:HE1	1.71	0.54
24:V2:520:ARG:NH2	24:V2:542:GLN:HE21	2.06	0.54
25:W1:236:GLN:HB2	25:W1:243:TRP:CE3	2.42	0.54
25:W4:9:ASN:OD1	25:W4:12:ILE:HD11	2.08	0.54
26:X1:64:LYS:HB3	27:Y1:324:ASP:HB3	1.89	0.54
28:Z2:531:LYS:O	30:b2:183:LEU:N	2.40	0.54
28:Z4:527:SER:CA	30:b4:204:GLU:CG	2.59	0.54
28:Z4:527:SER:OG	30:b4:210:ARG:CZ	2.56	0.54
29:a1:9:VAL:HG11	29:a1:372[A]:ILE:HD12	1.89	0.54
29:a3:214[B]:THR:HG23	29:a3:252[B]:MET:HE2	1.88	0.54
30:b1:11:PRO:HB2	30:b1:14:VAL:HG23	1.90	0.54
1:A1:835:THR:CA	6:D3:302:PRO:HB2	2.37	0.54
1:A1:1221:ILE:HG13	2:A2:723:PHE:HZ	1.70	0.54
2:A2:970:PHE:CD1	6:D1:196:ILE:HD13	2.34	0.54
2:A4:977:VAL:HG13	6:D3:476:VAL:HG21	1.90	0.54
2:A4:985:ALA:HB2	6:D3:500:LYS:N	2.20	0.54
3:A5:189:VAL:C	5:C2:746:PRO:O	2.50	0.54
3:A5:1026:PRO:HD2	11:I5:66:LEU:CG	2.37	0.54
3:A5:1135:ARG:HE	5:C5:743:LEU:CD1	2.18	0.54
3:A6:233:THR:N	5:C4:738:ASP:CG	2.57	0.54
3:A6:1331:GLU:OE2	28:Z4:952:ASN:C	2.51	0.54
3:A6:1358:LEU:HD21	28:Z4:875:LEU:CA	2.08	0.54
9:G1:258:LYS:HZ2	16:N2:408:MET:HE3	1.71	0.54
11:I1:963:LEU:CD2	20:R1:176:ARG:NH2	2.58	0.54
11:I1:1048:GLU:HB2	17:O1:284:LYS:CA	2.28	0.54
11:I1:1048:GLU:HA	20:R1:143:PHE:CD1	2.42	0.54
11:I1:1673:VAL:N	11:I2:1611:PHE:HA	2.20	0.54
11:I2:948:ALA:HB3	17:O3:256:TYR:N	2.21	0.54
11:I2:1024:PHE:CG	16:N3:406:HIS:CE1	2.94	0.54
11:I2:1028:CYS:C	20:R3:170:LEU:N	2.63	0.54
11:I2:1107:SER:CA	16:N3:436:ALA:O	2.56	0.54
23:U3:350:VAL:HG22	23:U3:355:LEU:HD22	1.90	0.54
25:W1:49:LEU:HB3	25:W1:82:TRP:CZ3	2.42	0.54
26:X2:461:MET:O	26:X2:465:MET:HG3	2.07	0.54
26:X3:70:LYS:HD2	27:Y3:15:VAL:O	2.07	0.54
26:X4:328:LEU:O	26:X4:332:ILE:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:288:VAL:HG12	28:Z1:300:MET:HB3	1.88	0.54
28:Z2:401:THR:CB	30:b2:253:SER:O	2.25	0.54
28:Z2:561:GLN:CG	30:b2:235:LEU:HD23	2.35	0.54
28:Z3:555:LYS:CB	30:b3:213:ASP:N	2.70	0.54
28:Z4:125:ASP:OD1	28:Z4:127:SER:OG	2.17	0.54
1:A1:870:HIS:CG	6:D3:280:GLN:HA	2.41	0.54
2:A2:780:GLU:CB	6:D1:677:GLN:HB3	2.33	0.54
2:A2:827:ILE:O	2:A2:863:GLN:HB2	0.72	0.54
2:A2:980:ARG:HG3	6:D1:526:LEU:CA	2.35	0.54
2:A2:1143:LEU:CG	3:A5:131:PRO:HB3	2.26	0.54
2:A2:1143:LEU:CB	3:A5:131:PRO:C	2.80	0.54
2:A4:1054:SER:HB3	6:D4:762:ARG:CZ	2.38	0.54
3:A5:231:SER:N	5:C2:739:MET:N	2.51	0.54
3:A5:999:SER:C	11:I5:64:LYS:HE3	2.33	0.54
3:A5:1026:PRO:HG2	11:I5:73:TYR:CG	2.31	0.54
3:A5:1369:ILE:HD11	28:Z2:832:PHE:CA	2.34	0.54
8:F1:1264:ARG:HB3	17:O2:263:GLN:CA	2.30	0.54
11:I1:922:ASP:HA	20:R1:163:LEU:HB3	1.90	0.54
11:I1:926:SER:H	15:M1:593:ALA:C	2.15	0.54
11:I1:947:LEU:HG	16:N1:408:MET:N	2.22	0.54
11:I1:1026:TYR:C	20:R1:172:ASP:HA	2.32	0.54
11:I1:1665:LEU:HB2	11:I2:1667:GLN:NE2	2.21	0.54
11:I2:880:MET:O	17:O3:246:LEU:CD2	2.42	0.54
11:I2:950:LEU:CB	16:N3:407:ALA:HA	2.34	0.54
11:I2:955:LYS:HG3	16:N3:403:VAL:CG2	2.38	0.54
11:I2:978:LYS:CE	20:R3:154:ALA:C	2.80	0.54
11:I2:994:ALA:O	17:O3:270:THR:HB	2.08	0.54
11:I2:1037:THR:OG1	20:R3:169:GLY:HA3	2.03	0.54
11:I2:1049:LEU:CD1	17:O3:291:ASP:OD1	2.56	0.54
11:I3:1277:LEU:C	26:X1:519:ILE:HG22	2.05	0.54
21:S2:1012:LEU:HD13	21:S2:1034:LEU:HD22	1.90	0.54
24:V2:525:ASP:HA	24:V2:528:LEU:HD12	1.90	0.54
25:W3:95:HIS:CE1	25:W3:97:VAL:HG22	2.42	0.54
25:W4:236:GLN:HB2	25:W4:243:TRP:CE3	2.42	0.54
26:X3:186:ARG:HA	26:X3:190:PHE:HB2	1.90	0.54
30:b1:242:LEU:HD13	30:b1:305:PRO:HG3	1.88	0.54
2:A2:227:SER:HB3	6:D1:708:ASP:O	2.08	0.54
2:A2:878:LEU:HB2	6:D1:567:LEU:HD13	1.90	0.54
2:A2:968:SER:C	6:D1:202:GLN:HA	2.32	0.54
2:A2:1156:ASP:CA	3:A5:175:GLU:O	2.31	0.54
1:A3:1017:THR:C	6:D3:819:ASN:CB	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:780:GLU:HB2	6:D3:677:GLN:O	2.08	0.54
2:A4:823:VAL:HA	2:A4:856:PHE:CZ	2.28	0.54
2:A4:867:GLU:CA	6:D3:605:THR:HG22	2.28	0.54
2:A4:1124:ARG:C	3:A6:136:GLU:HB3	2.30	0.54
2:A4:1156:ASP:O	3:A6:165:PHE:HB3	2.08	0.54
3:A5:1098:ARG:CZ	11:I5:29:GLN:HB3	2.35	0.54
3:A5:1365:VAL:CG1	28:Z2:832:PHE:C	2.81	0.54
3:A6:1360:GLY:C	28:Z4:872:TYR:C	2.74	0.54
6:D1:532:LEU:O	6:D1:536:THR:HG23	2.08	0.54
8:F2:1165:VAL:HG12	8:F2:1166:GLY:N	2.23	0.54
11:I1:885:GLU:HA	16:N1:397:GLU:OE1	2.08	0.54
11:I1:915:ALA:HB1	16:N1:382:MET:SD	2.47	0.54
11:I1:926:SER:HA	20:R1:156:GLY:N	2.23	0.54
11:I1:931:VAL:CG1	15:M1:600:ASN:HB3	2.38	0.54
11:I1:996:LEU:CD2	16:N1:410:MET:SD	2.92	0.54
11:I1:1665:LEU:CB	11:I2:1667:GLN:CD	2.65	0.54
11:I2:962:ILE:HG12	15:M3:600:ASN:ND2	2.20	0.54
11:I2:977:ASN:O	20:R3:151:LYS:CB	2.44	0.54
11:I2:977:ASN:O	20:R3:151:LYS:HB3	2.08	0.54
11:I2:1041:GLN:HE21	15:M3:614:ASP:C	2.16	0.54
11:I2:1042:LEU:O	16:N3:430:ARG:NH1	2.34	0.54
21:S4:1028:ALA:HB3	21:S4:1029:PRO:HD3	1.89	0.54
27:Y3:128:LEU:HD23	27:Y3:169:PHE:HB3	1.89	0.54
28:Z1:522:ASN:OD1	30:b1:241:PRO:CG	2.40	0.54
28:Z2:526:ARG:HD3	30:b2:207:GLY:CA	2.36	0.54
28:Z3:443:LEU:CD2	30:b3:250:GLY:HA3	2.36	0.54
28:Z3:539:GLU:OE1	30:b3:163:ASP:OD1	2.17	0.54
28:Z4:531:LYS:O	30:b4:183:LEU:N	2.41	0.54
2:A4:864:ARG:CZ	6:D3:610:ASN:ND2	2.63	0.54
2:A4:978:ASP:N	6:D3:492:VAL:CG1	2.71	0.54
2:A4:1026:PRO:O	2:A4:1029:ILE:N	2.41	0.54
2:A4:1148:ARG:CZ	3:A6:174:PRO:CG	2.78	0.54
3:A5:999:SER:HG	11:I5:63:PRO:CD	1.98	0.54
11:I1:873:ILE:HA	17:O1:251:ILE:HG23	1.88	0.54
11:I1:884:LEU:HB3	16:N1:397:GLU:N	2.23	0.54
11:I1:951:LYS:CA	16:N1:400:LEU:O	2.55	0.54
11:I1:1032:THR:CA	20:R1:176:ARG:O	2.50	0.54
11:I1:1052:LEU:H	17:O1:286:ILE:HB	1.72	0.54
11:I2:883:ALA:N	17:O3:245:GLU:O	2.24	0.54
11:I2:955:LYS:HB3	16:N3:400:LEU:HG	1.89	0.54
11:I2:956:ILE:HG21	15:M3:600:ASN:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1041:GLN:NE2	15:M3:617:THR:CG2	2.55	0.54
11:I2:1049:LEU:HD13	20:R3:146:LEU:HB3	1.90	0.54
11:I3:717:GLU:N	11:I3:717:GLU:OE1	2.39	0.54
11:I3:1280:PRO:CG	26:X1:539:TYR:HE2	2.21	0.54
11:I4:1270:LYS:HE2	26:X3:530:ARG:NE	2.21	0.54
21:S2:1028:ALA:HB3	21:S2:1029:PRO:HD3	1.89	0.54
23:U2:254:ALA:O	24:V2:315:LYS:NZ	2.40	0.54
24:V3:525:ASP:HA	24:V3:528:LEU:HD12	1.90	0.54
25:W2:9:ASN:OD1	25:W2:12:ILE:HD11	2.08	0.54
26:X2:60:LYS:C	26:X2:62:GLY:H	2.14	0.54
28:Z2:443:LEU:CD2	30:b2:250:GLY:HA3	2.36	0.54
28:Z2:555:LYS:CB	30:b2:213:ASP:N	2.70	0.54
1:A1:785:ILE:HD11	1:A1:825:ARG:CG	2.38	0.54
1:A1:1087:GLY:HA2	6:D1:797:GLY:O	1.92	0.54
2:A2:866:SER:OG	6:D1:605:THR:N	2.41	0.54
2:A2:1121:LEU:C	3:A5:133:LYS:CB	2.74	0.54
1:A3:1204:TRP:CZ2	2:A4:676:LEU:HD12	2.42	0.54
2:A4:1124:ARG:O	3:A6:140:ALA:HB2	2.07	0.54
2:A4:1151:THR:C	5:C4:733:LEU:HD12	2.33	0.54
3:A6:1358:LEU:HD13	28:Z4:873:LEU:O	2.08	0.54
3:A6:1401:VAL:CB	28:Z4:919:PHE:CB	2.85	0.54
6:D5:440:PHE:O	6:D5:444:LEU:HD13	2.08	0.54
8:F1:1261:TYR:O	17:O2:262:ASP:HB2	2.08	0.54
8:F1:1267:ARG:HG3	17:O2:265:ASN:CB	2.34	0.54
9:G1:254:ASN:ND2	15:M2:606:LEU:HA	2.23	0.54
11:I1:917:TYR:O	15:M1:588:MET:HB3	2.08	0.54
11:I1:963:LEU:C	20:R1:165:SER:OG	2.51	0.54
11:I1:1017:VAL:CG1	16:N1:410:MET:HG2	2.36	0.54
11:I1:1049:LEU:N	15:M1:622:VAL:HG12	2.23	0.54
11:I1:1067:PHE:CG	16:N1:432:TYR:N	2.75	0.54
11:I1:1666:THR:HG21	11:I2:1602:PHE:HB3	1.89	0.54
11:I2:963:LEU:CD2	20:R3:168:LEU:HD13	2.38	0.54
11:I2:976:ARG:NH1	15:M3:622:VAL:HG21	1.99	0.54
11:I2:978:LYS:CG	20:R3:151:LYS:HD3	2.37	0.54
11:I2:986:ASN:N	15:M3:613:ASP:HB3	2.11	0.54
11:I2:1103:LEU:HB3	20:R3:174:ARG:HB3	1.84	0.54
11:I2:1112:SER:CB	12:J2:241:THR:HB	2.37	0.54
21:S1:1012:LEU:HD13	21:S1:1034:LEU:HD22	1.90	0.54
21:S1:1083:TRP:HA	21:S1:1083:TRP:HE3	1.73	0.54
25:W4:212:TRP:HA	25:W4:222:LEU:HD23	1.90	0.54
26:X4:60:LYS:C	26:X4:62:GLY:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y2:41:ASP:HA	29:a2:231[B]:HIS:NE2	2.17	0.54
28:Z1:522:ASN:ND2	30:b1:241:PRO:N	2.51	0.54
28:Z1:554:PHE:HD1	30:b1:232:PRO:HB2	1.71	0.54
28:Z1:557:CYS:CA	30:b1:210:ARG:CA	2.60	0.54
28:Z2:527:SER:OG	30:b2:210:ARG:CZ	2.56	0.54
28:Z3:521:SER:HG	30:b3:238:ASN:N	2.02	0.54
28:Z3:532:PHE:H	30:b3:184:SER:HA	1.73	0.54
28:Z3:556:ASN:OD1	30:b3:200:LEU:HD11	2.08	0.54
28:Z4:534:ASP:OD2	30:b4:183:LEU:CA	2.53	0.54
2:A2:1026:PRO:O	2:A2:1029:ILE:N	2.41	0.54
2:A2:1121:LEU:C	3:A5:133:LYS:CA	2.79	0.54
2:A4:171:HIS:NE2	6:D3:708:ASP:CG	2.64	0.54
2:A4:873:PRO:HG2	6:D3:568:ARG:C	2.33	0.54
2:A4:1150:LEU:HD11	5:C4:731:LYS:CG	2.38	0.54
6:D3:440:PHE:O	6:D3:444:LEU:HD13	2.08	0.54
6:D6:532:LEU:O	6:D6:536:THR:HG23	2.08	0.54
9:G2:258:LYS:CD	17:O4:259:ASP:OD2	2.56	0.54
11:I1:947:LEU:CG	17:O1:256:TYR:OH	2.55	0.54
11:I1:981:VAL:HB	20:R1:147:LEU:HG	0.54	0.54
11:I1:1037:THR:CB	20:R1:173:LEU:HB2	2.33	0.54
11:I2:833:PHE:HZ	17:O3:242:ARG:CA	2.13	0.54
11:I2:887:GLN:CD	16:N3:393:ILE:CG1	2.80	0.54
11:I2:951:LYS:HG3	17:O3:253:LEU:CD1	2.38	0.54
11:I2:978:LYS:NZ	20:R3:152:LYS:C	2.66	0.54
11:I2:1037:THR:OG1	20:R3:169:GLY:N	2.40	0.54
11:I2:1071:LEU:HG	16:N3:429:GLU:HA	1.90	0.54
11:I2:1114:VAL:CG1	16:N3:432:TYR:HD2	2.18	0.54
11:I3:624:GLU:O	11:I3:627:ASN:ND2	2.40	0.54
17:O3:162:LYS:HG3	18:P3:315:GLU:CD	2.30	0.54
21:S3:1028:ALA:HB3	21:S3:1029:PRO:HD3	1.89	0.54
23:U2:350:VAL:HG22	23:U2:355:LEU:HD22	1.90	0.54
26:X2:186:ARG:HA	26:X2:190:PHE:HB2	1.90	0.54
28:Z2:521:SER:OG	30:b2:238:ASN:HB3	2.08	0.54
28:Z2:522:ASN:ND2	30:b2:241:PRO:N	2.52	0.54
28:Z3:102:MET:HB3	28:Z3:107:THR:HG21	1.89	0.54
28:Z3:531:LYS:O	30:b3:183:LEU:N	2.41	0.54
2:A2:223:THR:HB	6:D1:709:ARG:NH2	2.10	0.53
2:A2:779:ASP:CB	6:D1:679:ILE:O	2.56	0.53
2:A2:1139:ILE:O	3:A5:131:PRO:C	2.51	0.53
2:A2:1150:LEU:HD11	5:C2:731:LYS:CG	2.38	0.53
2:A4:173:ASN:ND2	6:D3:762:ARG:CA	2.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:780:GLU:CD	6:D3:679:ILE:HG21	2.30	0.53
2:A4:1159:ASP:O	4:B6:342:ARG:C	2.51	0.53
3:A5:1369:ILE:CD1	28:Z2:831:LEU:C	2.71	0.53
3:A6:1334:GLY:O	28:Z4:961:PHE:N	2.41	0.53
3:A6:1365:VAL:CB	28:Z4:845:ILE:CB	2.85	0.53
6:D2:440:PHE:O	6:D2:444:LEU:HD13	2.08	0.53
6:D7:440:PHE:O	6:D7:444:LEU:HD13	2.08	0.53
8:F2:1263:MET:O	8:F2:1267:ARG:N	2.41	0.53
11:I1:1031:ALA:HB1	20:R1:176:ARG:NH1	2.17	0.53
11:I1:1667:GLN:C	11:I2:1665:LEU:HD23	2.25	0.53
11:I3:1271:GLU:N	26:X1:529:TRP:CB	2.71	0.53
11:I3:1271:GLU:OE2	26:X1:529:TRP:CD2	2.54	0.53
18:P1:277:PRO:HB2	18:P4:322:LYS:H	1.72	0.53
21:S3:176:MET:HE1	21:S3:232:LEU:HD13	1.89	0.53
22:T3:853:CYS:O	22:T3:857:LEU:HG	2.08	0.53
23:U3:341:HIS:CE1	23:U3:343:ILE:HD12	2.43	0.53
23:U4:222:VAL:HG12	24:V4:256:VAL:HA	1.90	0.53
23:U4:341:HIS:CE1	23:U4:343:ILE:HD12	2.43	0.53
24:V4:178:THR:HG21	24:V4:485:ALA:HB2	1.90	0.53
24:V4:520:ARG:NH2	24:V4:542:GLN:HE21	2.06	0.53
25:W2:212:TRP:HA	25:W2:222:LEU:HD23	1.90	0.53
26:X1:70:LYS:HD2	27:Y1:15:VAL:O	2.07	0.53
26:X4:64:LYS:HB3	27:Y4:324:ASP:HB3	1.90	0.53
27:Y1:219:SER:HG	27:Y1:312:TRP:HD1	1.54	0.53
28:Z1:401:THR:CB	30:b1:253:SER:O	2.25	0.53
28:Z2:532:PHE:H	30:b2:184:SER:HA	1.73	0.53
28:Z2:533:LEU:HB2	30:b2:164:CYS:SG	2.48	0.53
28:Z4:537:THR:CG2	28:Z4:743:ASN:HA	2.31	0.53
29:a1:13:ILE:HG13	29:a1:372[B]:ILE:HD11	1.89	0.53
1:A1:1197:ALA:C	2:A2:728:LYS:HG3	2.32	0.53
2:A2:1131:ILE:CG1	3:A5:137:HIS:HB3	2.29	0.53
1:A3:1084:ARG:HG3	6:D3:794:THR:HB	1.90	0.53
1:A3:1201:ARG:N	2:A4:728:LYS:O	2.37	0.53
2:A4:983:LEU:HG	6:D3:528:PHE:HE1	0.77	0.53
2:A4:989:MSE:HB3	6:D3:240:ASP:HA	1.91	0.53
2:A4:1130:ARG:C	3:A6:161[A]:ASP:HB2	2.27	0.53
2:A4:1157:TYR:CE1	3:A6:131:PRO:HB2	2.23	0.53
3:A5:996:ASN:CG	11:I5:56:ARG:C	2.69	0.53
3:A6:157:TRP:CD1	5:C4:741:THR:CG2	2.86	0.53
3:A6:189:VAL:CG2	5:C4:745:SER:OG	2.46	0.53
3:A6:785:ILE:HD11	3:A6:825:ARG:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1312:ARG:NE	28:Z4:841:ALA:HB1	2.24	0.53
3:A6:1358:LEU:O	28:Z4:874:ASN:C	2.51	0.53
3:A6:1407:GLY:O	26:X4:743:PHE:HA	2.09	0.53
6:D1:440:PHE:O	6:D1:444:LEU:HD13	2.08	0.53
6:D6:440:PHE:O	6:D6:444:LEU:HD13	2.08	0.53
8:F1:1491:ARG:NE	9:G1:282:ASN:OD1	2.41	0.53
11:I1:952:LEU:CA	17:O1:253:LEU:HD13	2.35	0.53
11:I1:953:LEU:O	16:N1:399:HIS:CD2	2.58	0.53
11:I1:1018:LYS:H	16:N1:412:ASN:CA	2.21	0.53
11:I1:1111:ALA:HB2	16:N1:439:ARG:NH1	2.22	0.53
11:I1:1112:SER:CB	12:J1:241:THR:HB	2.37	0.53
11:I2:886:LEU:CB	17:O3:242:ARG:HA	2.38	0.53
11:I2:915:ALA:C	15:M3:585:LEU:CB	2.40	0.53
11:I2:989:GLY:CA	15:M3:614:ASP:HB3	2.38	0.53
11:I2:1054:ILE:N	17:O3:281:ALA:C	2.62	0.53
11:I4:8:GLU:N	11:I4:8:GLU:OE1	2.39	0.53
11:I5:1279:THR:CG2	26:X2:520:GLU:HB2	2.09	0.53
15:M1:598:GLU:OE1	17:O1:254:ARG:NH1	2.40	0.53
21:S3:1001:PHE:CD2	21:S3:1001:PHE:C	2.86	0.53
21:S3:1012:LEU:HD13	21:S3:1034:LEU:HD22	1.90	0.53
21:S4:1083:TRP:HA	21:S4:1083:TRP:HE3	1.73	0.53
22:T1:853:CYS:O	22:T1:857:LEU:HG	2.08	0.53
22:T1:906:GLU:O	22:T1:910:MET:HE2	2.08	0.53
25:W3:9:ASN:OD1	25:W3:12:ILE:HD11	2.08	0.53
25:W3:236:GLN:HB2	25:W3:243:TRP:CE3	2.42	0.53
26:X3:328:LEU:O	26:X3:332:ILE:HG13	2.08	0.53
27:Y2:128:LEU:HD23	27:Y2:169:PHE:HB3	1.89	0.53
28:Z1:527:SER:OG	30:b1:210:ARG:CZ	2.56	0.53
28:Z4:556:ASN:OD1	30:b4:200:LEU:HD11	2.08	0.53
30:b1:264:ASP:OD1	30:b1:264:ASP:N	2.40	0.53
1:A1:777:LEU:HD13	1:A1:822:ILE:HD11	1.90	0.53
2:A2:825:ARG:CD	6:D1:633:LYS:HG3	2.38	0.53
2:A2:863:GLN:HA	6:D1:603:SER:O	2.08	0.53
2:A2:988:ARG:CA	6:D1:500:LYS:NZ	2.49	0.53
1:A3:1088:ASN:HA	6:D3:808:ASN:ND2	2.24	0.53
2:A4:1132:PRO:HG3	3:A6:159:SER:C	2.32	0.53
3:A6:1398:LYS:CD	28:Z4:886:LEU:C	2.48	0.53
3:A6:1416:ARG:OXT	28:Z4:976:ALA:O	2.27	0.53
6:D3:532:LEU:O	6:D3:536:THR:HG23	2.08	0.53
9:G2:258:LYS:C	17:O4:259:ASP:OD1	2.51	0.53
11:I1:950:LEU:CG	15:M1:606:LEU:HD21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1668:HIS:N	11:I2:1665:LEU:HA	2.22	0.53
11:I2:837:MET:HE3	17:O3:243:LEU:CG	2.38	0.53
11:I2:877:ILE:HB	17:O3:255:GLY:N	2.22	0.53
11:I2:966:TRP:CA	20:R3:150:ASN:O	2.56	0.53
11:I2:1284:GLU:N	11:I2:1284:GLU:OE1	2.38	0.53
11:I4:1274:HIS:CD2	26:X3:531:LEU:HB2	2.44	0.53
11:I4:1279:THR:N	26:X3:520:GLU:C	2.57	0.53
11:I5:465:GLU:N	11:I5:465:GLU:OE1	2.38	0.53
22:T4:781:THR:HG23	22:T4:783:THR:H	1.73	0.53
23:U1:341:HIS:CE1	23:U1:343:ILE:HD12	2.43	0.53
24:V1:520:ARG:NH2	24:V1:542:GLN:HE21	2.06	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	2.44	0.53
24:V3:178:THR:HG21	24:V3:485:ALA:HB2	1.90	0.53
24:V3:186:PHE:HD1	24:V3:487:LEU:HD11	1.74	0.53
24:V3:520:ARG:NH2	24:V3:542:GLN:HE21	2.06	0.53
26:X3:64:LYS:HB3	27:Y3:324:ASP:HB3	1.90	0.53
26:X4:280:VAL:HG21	26:X4:321:ALA:HB3	1.89	0.53
28:Z1:531:LYS:O	30:b1:183:LEU:N	2.41	0.53
28:Z1:556:ASN:OD1	30:b1:200:LEU:HD11	2.08	0.53
28:Z3:521:SER:OG	30:b3:238:ASN:HB3	2.09	0.53
28:Z3:527:SER:OG	30:b3:210:ARG:CZ	2.56	0.53
30:b1:237:LEU:HD13	30:b1:280:TRP:CE2	2.44	0.53
2:A2:968:SER:CA	6:D1:201:LEU:O	2.50	0.53
2:A4:827:ILE:O	2:A4:863:GLN:HB2	0.72	0.53
2:A4:827:ILE:CA	6:D3:606:LYS:HB3	2.20	0.53
2:A4:876:ARG:CG	6:D3:558:LYS:HG2	2.39	0.53
2:A4:908:LEU:CG	6:D3:601:PHE:C	2.77	0.53
3:A6:146:LYS:CE	5:C4:747:PRO:O	2.56	0.53
3:A6:1135:ARG:HE	5:C6:743:LEU:CD1	2.18	0.53
8:F1:1263:MET:O	8:F1:1267:ARG:N	2.41	0.53
11:I1:860:LEU:HB3	17:O1:262:ASP:OD1	2.08	0.53
11:I1:1023:ASP:HB3	16:N1:405:ALA:CB	2.35	0.53
11:I1:1036:PRO:C	15:M1:624:ASN:N	2.67	0.53
11:I1:1055:GLU:OE2	17:O1:280:GLU:HG3	2.08	0.53
11:I1:1057:LYS:O	17:O1:276:GLY:O	2.26	0.53
11:I1:1605:LEU:HD13	11:I2:1669:ARG:NE	2.16	0.53
11:I2:884:LEU:CD1	16:N3:400:LEU:HD21	2.38	0.53
11:I2:955:LYS:HE3	16:N3:397:GLU:O	2.09	0.53
11:I2:1018:LYS:HE3	16:N3:413:VAL:HG12	1.88	0.53
11:I3:1275:SER:CB	26:X1:522:MET:CG	2.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:410:SER:HA	23:U2:436:LEU:HD11	1.89	0.53
23:U3:206:ILE:HG23	24:V3:336:LEU:HB3	1.91	0.53
24:V2:178:THR:HG21	24:V2:485:ALA:HB2	1.90	0.53
24:V2:548:TYR:HB2	25:W2:64:PRO:HB3	1.90	0.53
24:V4:525:ASP:HA	24:V4:528:LEU:HD12	1.90	0.53
25:W1:9:ASN:OD1	25:W1:12:ILE:HD11	2.08	0.53
25:W1:154:ALA:HB2	25:W1:212:TRP:CE3	2.44	0.53
25:W4:154:ALA:HB2	25:W4:212:TRP:CE3	2.44	0.53
26:X2:328:LEU:O	26:X2:332:ILE:HG13	2.08	0.53
26:X4:186:ARG:HA	26:X4:190:PHE:HB2	1.90	0.53
28:Z3:526:ARG:CB	30:b3:206:ASN:C	2.82	0.53
28:Z3:526:ARG:HA	30:b3:206:ASN:ND2	2.23	0.53
30:b4:11:PRO:HB2	30:b4:14:VAL:HG23	1.90	0.53
2:A2:870:HIS:CG	6:D1:566:PHE:CG	2.89	0.53
2:A2:980:ARG:NE	6:D1:525:ARG:HD3	2.21	0.53
2:A2:1142:PHE:CE1	3:A5:567:VAL:CB	2.91	0.53
2:A2:1151:THR:CG2	3:A5:171:HIS:CD2	2.68	0.53
2:A4:909:LYS:HG2	6:D3:552:TYR:CD1	2.43	0.53
3:A5:996:ASN:OD1	11:I5:57:GLU:CA	2.55	0.53
3:A6:159:SER:CB	5:C4:745:SER:H	2.22	0.53
3:A6:165:PHE:CB	5:C4:743:LEU:HD13	2.38	0.53
3:A6:1372:THR:OG1	28:Z4:822:SER:O	2.27	0.53
9:G2:257:THR:HG23	17:O4:257:ALA:N	2.22	0.53
11:I1:896:PRO:HA	17:O1:232:LYS:HB3	1.89	0.53
11:I1:928:LEU:CD2	20:R1:155:GLU:HB2	2.38	0.53
11:I1:939:ASN:HA	17:O1:264:ILE:O	2.09	0.53
11:I1:984:GLU:CB	15:M1:618:GLN:HG3	2.29	0.53
11:I1:1036:PRO:O	15:M1:623:LEU:O	2.26	0.53
11:I1:1043:LEU:HB3	16:N1:430:ARG:C	2.27	0.53
11:I1:1047:CYS:O	20:R1:143:PHE:CZ	2.60	0.53
11:I1:1602:PHE:HD1	11:I2:1666:THR:HG21	1.73	0.53
11:I2:840:LEU:CG	17:O3:247:TRP:CD1	2.91	0.53
11:I2:1055:GLU:C	17:O3:277:GLU:O	2.47	0.53
11:I2:1109:LEU:CB	16:N3:441:PHE:HB2	2.39	0.53
11:I3:1116:ASP:OD1	12:J3:241:THR:CG2	2.56	0.53
17:O3:151:LEU:HD11	18:P3:321:ILE:O	2.08	0.53
19:Q1:208:GLY:HA3	19:Q1:210:TRP:CZ3	2.43	0.53
21:S1:882:GLN:C	21:S1:884:ARG:H	2.16	0.53
23:U1:222:VAL:HG12	24:V1:256:VAL:HA	1.90	0.53
25:W3:275:ASP:N	25:W3:275:ASP:OD1	2.42	0.53
28:Z1:526:ARG:HD3	30:b1:207:GLY:CA	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:526:ARG:CB	30:b2:206:ASN:C	2.82	0.53
28:Z2:534:ASP:OD2	30:b2:183:LEU:CA	2.53	0.53
30:b3:237:LEU:HD13	30:b3:280:TRP:CE2	2.44	0.53
2:A2:983:LEU:CB	6:D1:528:PHE:CE1	2.81	0.53
2:A2:992:TYR:CB	6:D1:238:ALA:CB	2.86	0.53
2:A2:1163:TYR:CA	4:B5:342:ARG:HG3	2.38	0.53
2:A4:1164:TYR:OH	4:B6:343:LYS:CD	2.52	0.53
3:A5:153:ILE:HB	5:C2:739:MET:HB2	1.90	0.53
3:A6:153:ILE:HD12	5:C4:739:MET:CG	2.37	0.53
3:A6:1151:THR:HA	5:C6:733:LEU:HD11	1.80	0.53
8:F1:982:PRO:CG	11:I1:1388:GLU:HG3	2.38	0.53
11:I1:717:GLU:N	11:I1:717:GLU:OE1	2.39	0.53
11:I1:987:GLY:CA	15:M1:614:ASP:N	2.72	0.53
11:I1:1035:GLN:O	16:N1:441:PHE:CZ	2.30	0.53
11:I1:1040:HIS:CD2	20:R1:170:LEU:HD23	2.41	0.53
11:I2:833:PHE:CE2	17:O3:238:ALA:O	2.60	0.53
11:I2:938:CYS:O	17:O3:261:LYS:HA	2.09	0.53
11:I4:1277:LEU:CG	26:X3:521:TRP:HE3	2.21	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
22:T1:781:THR:HG23	22:T1:783:THR:H	1.73	0.53
22:T3:781:THR:HG23	22:T3:783:THR:H	1.73	0.53
24:V3:345:SER:HB3	24:V3:371:PHE:CE2	2.43	0.53
24:V4:186:PHE:HD1	24:V4:487:LEU:HD11	1.74	0.53
24:V4:345:SER:HB3	24:V4:371:PHE:CE2	2.43	0.53
25:W1:178:ALA:HB1	25:W1:206:TRP:CE2	2.44	0.53
25:W2:275:ASP:N	25:W2:275:ASP:OD1	2.42	0.53
27:Y4:128:LEU:HD23	27:Y4:169:PHE:HB3	1.89	0.53
28:Z3:533:LEU:HB2	30:b3:164:CYS:SG	2.49	0.53
30:b2:11:PRO:HB2	30:b2:14:VAL:HG23	1.90	0.53
1:A1:1070:ASP:OD2	11:I1:1238:LYS:HG3	2.09	0.53
1:A1:1223:GLU:OE1	2:A2:734:LEU:HD11	2.08	0.53
2:A4:873:PRO:HD2	6:D3:569:CYS:CA	2.38	0.53
2:A4:876:ARG:HG3	6:D3:558:LYS:HG2	1.89	0.53
2:A4:1019:ARG:HH12	6:D3:239:THR:N	2.07	0.53
3:A5:1019:ARG:HG2	11:I5:54:LYS:CE	2.24	0.53
3:A5:1385:GLU:CD	28:Z2:863:ASP:CB	2.81	0.53
3:A5:1399:ARG:CZ	28:Z2:909:LEU:HA	2.28	0.53
6:D2:532:LEU:O	6:D2:536:THR:HG23	2.08	0.53
6:D4:532:LEU:O	6:D4:536:THR:HG23	2.08	0.53
6:D5:532:LEU:O	6:D5:536:THR:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1202:TYR:CD1	17:O2:252:VAL:HG22	2.44	0.53
8:F2:472:ARG:CZ	11:I2:171:TRP:HB2	2.38	0.53
11:I1:877:ILE:CD1	17:O1:251:ILE:O	2.56	0.53
11:I1:957:SER:HB3	20:R1:168:LEU:HA	1.90	0.53
11:I1:978:LYS:O	15:M1:621:ARG:NH1	2.42	0.53
11:I1:1116:ASP:OD1	12:J1:241:THR:CG2	2.56	0.53
11:I2:921:GLU:HA	15:M3:596:ILE:N	2.24	0.53
11:I2:958:THR:HA	20:R3:168:LEU:HD23	1.90	0.53
11:I2:967:SER:CA	20:R3:153:GLN:NE2	2.56	0.53
11:I2:1040:HIS:CD2	20:R3:170:LEU:HD23	2.44	0.53
11:I2:1106:LYS:O	16:N3:440:GLU:HG3	2.05	0.53
11:I5:1276:GLN:O	26:X2:518:ASP:N	2.26	0.53
21:S2:969:THR:HA	22:T2:879:ASP:OD1	2.09	0.53
21:S2:1001:PHE:CD2	21:S2:1001:PHE:C	2.86	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
22:T2:906:GLU:O	22:T2:910:MET:HE2	2.08	0.53
24:V3:548:TYR:HB2	25:W3:64:PRO:HB3	1.90	0.53
25:W3:178:ALA:HB1	25:W3:206:TRP:CE2	2.44	0.53
25:W4:275:ASP:N	25:W4:275:ASP:OD1	2.42	0.53
28:Z1:526:ARG:HA	30:b1:206:ASN:ND2	2.23	0.53
28:Z1:532:PHE:H	30:b1:184:SER:HA	1.73	0.53
28:Z3:531:LYS:HZ3	30:b3:166:LEU:HB2	1.72	0.53
28:Z4:102:MET:HB3	28:Z4:107:THR:HG21	1.89	0.53
28:Z4:535:ILE:CG1	30:b4:182:PRO:HB2	1.90	0.53
1:A1:1223:GLU:CD	2:A2:734:LEU:HD11	2.33	0.53
2:A2:823:VAL:HA	2:A2:856:PHE:CZ	2.28	0.53
2:A2:977:VAL:HG21	6:D1:491:HIS:C	2.34	0.53
2:A2:983:LEU:CD2	6:D1:497:PHE:CZ	2.91	0.53
2:A4:781:ARG:HH21	6:D3:633:LYS:HD2	1.64	0.53
2:A4:880:ALA:HB2	6:D3:558:LYS:HD3	1.91	0.53
2:A4:976:LEU:HD11	6:D3:245:ARG:HD3	1.91	0.53
2:A4:986:THR:HG22	6:D3:504:LYS:CE	2.37	0.53
3:A5:1092:ASN:OD1	11:I5:33:THR:CG2	2.57	0.53
3:A6:222:ALA:CB	5:C4:739:MET:CG	2.85	0.53
8:F1:1138:TRP:CD1	17:O2:244:GLU:CG	2.69	0.53
9:G2:256:GLN:N	17:O4:262:ASP:OD2	2.42	0.53
11:I1:833:PHE:C	17:O1:237:PRO:O	2.52	0.53
11:I1:912:VAL:H	15:M1:584:GLN:NE2	2.05	0.53
11:I1:925:LEU:HD12	15:M1:593:ALA:CB	2.37	0.53
11:I1:991:THR:HB	15:M1:610:SER:C	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1061:ASP:HB2	17:O1:279:ILE:HD12	1.90	0.53
11:I1:1108:PRO:CB	16:N1:443:GLU:CA	2.77	0.53
11:I2:951:LYS:CG	16:N3:400:LEU:O	2.56	0.53
11:I2:1017:VAL:CA	16:N3:409:ALA:O	2.57	0.53
11:I2:1116:ASP:OD1	12:J2:241:THR:CG2	2.56	0.53
11:I4:1272:TYR:N	26:X3:528:GLU:CB	2.72	0.53
17:O4:107:THR:HA	18:P4:318:PRO:HD3	1.91	0.53
19:Q3:208:GLY:HA3	19:Q3:210:TRP:CZ3	2.43	0.53
21:S1:1001:PHE:CD2	21:S1:1001:PHE:C	2.86	0.53
21:S2:882:GLN:C	21:S2:884:ARG:H	2.15	0.53
21:S4:969:THR:HA	22:T4:879:ASP:OD1	2.09	0.53
24:V1:186:PHE:HD1	24:V1:487:LEU:HD11	1.74	0.53
24:V4:548:TYR:HB2	25:W4:64:PRO:HB3	1.90	0.53
26:X2:64:LYS:HB3	27:Y2:324:ASP:HB3	1.90	0.53
28:Z2:438:GLU:CB	30:b2:333:HIS:HE1	2.22	0.53
28:Z2:539:GLU:OE1	30:b2:163:ASP:OD1	2.17	0.53
28:Z3:410:ASN:HB3	30:b3:251:ILE:CD1	2.18	0.53
28:Z3:531:LYS:HD3	30:b3:183:LEU:CB	1.97	0.53
28:Z3:555:LYS:HG3	30:b3:233:TRP:CE3	2.24	0.53
1:A1:1203:TYR:CG	2:A2:730:THR:HA	2.44	0.53
1:A1:1399:ARG:NH2	2:A2:885:LEU:HA	2.13	0.53
2:A2:986:THR:CG2	6:D1:497:PHE:CE1	2.88	0.53
2:A2:1139:ILE:C	3:A5:131:PRO:O	2.52	0.53
3:A6:1408:GLU:O	28:Z4:965:TYR:CA	2.52	0.53
6:D3:743:HIS:CD2	11:I2:1528:ARG:CG	2.92	0.53
8:F1:1203:TRP:HH2	17:O2:248:SER:N	2.07	0.53
11:I1:962:ILE:HD12	20:R1:165:SER:N	2.24	0.53
11:I1:1284:GLU:OE1	11:I1:1284:GLU:N	2.38	0.53
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HB3	2.24	0.53
11:I1:1663:LYS:HE2	11:I2:1663:LYS:HE2	1.89	0.53
11:I2:922:ASP:HB3	15:M3:592:LEU:HB3	1.90	0.53
11:I2:922:ASP:HB2	20:R3:163:LEU:HD13	0.66	0.53
11:I2:942:HIS:HB2	17:O3:259:ASP:HA	1.80	0.53
11:I2:950:LEU:CD1	16:N3:407:ALA:HA	2.39	0.53
11:I2:961:ARG:NH1	16:N3:392:THR:OG1	2.42	0.53
21:S2:245:LEU:HD22	21:S2:304:GLU:CD	2.34	0.53
21:S4:1001:PHE:CD2	21:S4:1001:PHE:C	2.86	0.53
22:T2:760:PHE:HD1	22:T2:864:ILE:HD11	1.74	0.53
23:U1:350:VAL:HG22	23:U1:355:LEU:HD22	1.90	0.53
23:U2:341:HIS:CE1	23:U2:343:ILE:HD12	2.43	0.53
23:U4:210:MET:O	24:V4:325:TYR:OH	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W3:212:TRP:HA	25:W3:222:LEU:HD23	1.90	0.53
25:W4:178:ALA:HB1	25:W4:206:TRP:CE2	2.44	0.53
26:X1:328:LEU:O	26:X1:332:ILE:HG13	2.08	0.53
28:Z2:410:ASN:CG	30:b2:252:ALA:HB2	2.23	0.53
28:Z2:525:LEU:O	30:b2:208:ASN:ND2	2.25	0.53
28:Z4:232:ARG:NE	28:Z4:249:THR:OG1	2.39	0.53
30:b2:237:LEU:HD13	30:b2:280:TRP:CE2	2.44	0.53
1:A1:871:ASN:OD1	6:D3:280:GLN:N	2.42	0.53
2:A2:868:GLN:CB	6:D1:570:VAL:CG1	2.87	0.53
2:A2:977:VAL:H	6:D1:502:LEU:HD13	1.74	0.53
2:A2:1164:TYR:CE1	4:B5:342:ARG:CB	2.88	0.53
1:A3:1017:THR:HG21	1:A3:1048:ARG:HH11	1.74	0.53
1:A3:1221:ILE:HD11	2:A4:642:ARG:N	2.24	0.53
2:A4:824:ASN:OD1	2:A4:859:GLN:NE2	2.40	0.53
2:A4:971:ALA:CB	6:D3:203:PRO:C	2.59	0.53
2:A4:976:LEU:HD13	6:D3:472:PHE:HE2	0.76	0.53
2:A4:1151:THR:CG2	5:C4:734:VAL:O	2.57	0.53
3:A5:1360:GLY:H	28:Z2:879:PHE:N	2.06	0.53
3:A6:232:LEU:HD21	5:C4:740:ARG:H	1.69	0.53
8:F1:1165:VAL:HG12	8:F1:1166:GLY:N	2.23	0.53
8:F2:835:ILE:O	8:F2:835:ILE:HG13	2.09	0.53
9:G1:250:THR:HB	15:M2:605:THR:HG22	1.90	0.53
11:I1:882:LYS:N	17:O1:249:ARG:HB3	1.75	0.53
11:I1:913:ALA:HB3	15:M1:584:GLN:HG2	1.90	0.53
11:I1:958:THR:OG1	16:N1:399:HIS:HA	2.09	0.53
11:I1:1609:GLY:HA3	12:J2:295:TYR:CD1	2.43	0.53
11:I1:1669:ARG:NE	11:I2:1605:LEU:O	2.38	0.53
11:I2:717:GLU:N	11:I2:717:GLU:OE1	2.39	0.53
11:I2:888:GLU:CG	16:N3:393:ILE:HG22	2.35	0.53
11:I2:953:LEU:HG	15:M3:602:MET:O	2.08	0.53
11:I2:1048:GLU:HG2	17:O3:288:GLU:CD	2.34	0.53
11:I2:1105:TRP:CD1	16:N3:436:ALA:HB2	2.44	0.53
17:O4:106:HIS:C	18:P4:318:PRO:CG	2.77	0.53
21:S1:969:THR:HA	22:T1:879:ASP:OD1	2.09	0.53
21:S2:622:GLY:O	21:S2:623:ARG:O	2.27	0.53
21:S2:1083:TRP:HA	21:S2:1083:TRP:HE3	1.73	0.53
21:S4:1012:LEU:HD13	21:S4:1034:LEU:HD22	1.90	0.53
22:T3:760:PHE:HD1	22:T3:864:ILE:HD11	1.74	0.53
23:U1:206:ILE:HG23	24:V1:336:LEU:HB3	1.91	0.53
23:U2:206:ILE:HG23	24:V2:336:LEU:HB3	1.91	0.53
25:W2:178:ALA:HB1	25:W2:206:TRP:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:186:ARG:HA	26:X1:190:PHE:HB2	1.90	0.53
28:Z1:526:ARG:CB	30:b1:206:ASN:C	2.82	0.53
28:Z1:533:LEU:HB2	30:b1:164:CYS:SG	2.49	0.53
28:Z4:539:GLU:OE1	30:b4:163:ASP:OD1	2.17	0.53
28:Z4:554:PHE:HE2	30:b4:234:LEU:HD23	1.74	0.53
2:A2:227:SER:CB	6:D1:711:PHE:C	2.82	0.52
2:A2:1154:PHE:CD1	3:A5:175:GLU:OE1	2.61	0.52
1:A3:1199:GLN:H	2:A4:729:SER:HB3	1.73	0.52
2:A4:1148:ARG:CZ	3:A6:174:PRO:CD	2.87	0.52
3:A5:178:GLY:N	5:C2:743:LEU:HD23	2.23	0.52
3:A5:1054:SER:O	11:I5:37:GLU:CG	2.57	0.52
3:A6:188:ALA:HA	5:C4:746:PRO:C	2.32	0.52
3:A6:1364:GLN:C	28:Z4:849:ALA:CB	2.80	0.52
3:A6:1366:LEU:HG	28:Z4:871:HIS:H	1.74	0.52
3:A6:1392:ARG:HB2	28:Z4:901:ARG:CB	2.39	0.52
3:A6:1394:VAL:HB	28:Z4:869:HIS:C	2.34	0.52
5:C3:732:LYS:HE2	11:I2:1228:GLU:CG	2.38	0.52
8:F2:1807:GLU:N	8:F2:1807:GLU:OE1	2.42	0.52
11:I1:882:LYS:HB2	17:O1:245:GLU:HB3	1.82	0.52
11:I1:886:LEU:HB2	17:O1:242:ARG:CA	2.32	0.52
11:I1:1666:THR:CG2	11:I2:1602:PHE:HD1	2.21	0.52
11:I1:1667:GLN:C	11:I2:1665:LEU:HA	2.33	0.52
11:I2:977:ASN:H	20:R3:147:LEU:C	2.15	0.52
11:I2:1037:THR:HG1	15:M3:620:VAL:HG13	1.71	0.52
11:I4:1116:ASP:OD1	12:J4:241:THR:CG2	2.56	0.52
11:I4:1276:GLN:C	26:X3:518:ASP:O	2.52	0.52
22:T2:853:CYS:O	22:T2:857:LEU:HG	2.09	0.52
22:T3:906:GLU:O	22:T3:910:MET:HE2	2.08	0.52
22:T4:853:CYS:O	22:T4:857:LEU:HG	2.09	0.52
28:Z1:522:ASN:OD1	30:b1:241:PRO:CB	2.47	0.52
28:Z4:443:LEU:CD2	30:b4:250:GLY:HA3	2.36	0.52
30:b2:138:ASN:HD22	30:b2:161:GLY:HA2	1.74	0.52
1:A1:1099:GLN:HG3	11:I1:1414:CYS:SG	2.50	0.52
1:A3:777:LEU:HD13	1:A3:822:ILE:HD11	1.89	0.52
3:A5:777:LEU:HD13	3:A5:822:ILE:HD11	1.90	0.52
3:A6:150:PHE:HE2	5:C4:741:THR:HA	1.74	0.52
3:A6:1312:ARG:NH2	28:Z4:829:SER:HA	2.24	0.52
11:I1:882:LYS:C	17:O1:245:GLU:CB	2.82	0.52
11:I1:914:ASN:O	15:M1:588:MET:HB3	2.09	0.52
11:I1:918:SER:CB	16:N1:389:PHE:H	2.21	0.52
11:I1:948:ALA:CB	17:O1:256:TYR:CB	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:994:ALA:HB3	17:O1:267:ALA:O	2.09	0.52
11:I2:881:ILE:HG22	17:O3:249:ARG:CD	2.38	0.52
11:I2:899:LEU:CG	17:O3:235:ASN:N	2.33	0.52
11:I2:1049:LEU:CD2	17:O3:291:ASP:CG	2.82	0.52
11:I4:1275:SER:CB	26:X3:525:ILE:CD1	2.55	0.52
21:S3:622:GLY:O	21:S3:623:ARG:O	2.27	0.52
21:S4:622:GLY:O	21:S4:623:ARG:O	2.27	0.52
21:S4:934:HIS:C	21:S4:936:SER:H	2.18	0.52
28:Z1:400:LYS:HB3	30:b1:205:ARG:NH2	2.25	0.52
28:Z2:556:ASN:OD1	30:b2:200:LEU:HD11	2.08	0.52
28:Z3:521:SER:OG	30:b3:238:ASN:CB	2.57	0.52
28:Z4:438:GLU:CG	30:b4:333:HIS:HE1	2.17	0.52
30:b4:237:LEU:HD13	30:b4:280:TRP:CE2	2.44	0.52
1:A1:878:LEU:HD12	6:D3:276:GLY:CA	2.36	0.52
2:A2:975:GLU:H	6:D1:499:LEU:HG	1.07	0.52
2:A2:978:ASP:C	6:D1:476:VAL:CB	2.56	0.52
2:A2:984:ALA:HB2	6:D1:553:PHE:CD2	2.43	0.52
2:A2:1155:ASN:C	3:A5:175:GLU:O	2.52	0.52
2:A4:1133:GLU:HA	3:A6:145:THR:HG21	1.92	0.52
3:A5:179:TYR:HB2	5:C2:744:PHE:CD2	2.15	0.52
3:A5:999:SER:C	11:I5:62:GLU:HB2	2.34	0.52
3:A6:1316:VAL:HG11	28:Z4:871:HIS:CA	2.29	0.52
8:F1:1066:ALA:HB3	8:F1:1067:PRO:HD3	1.91	0.52
11:I1:843:GLU:CD	15:M1:587:GLU:OE1	2.52	0.52
11:I1:922:ASP:H	15:M1:592:LEU:CB	1.98	0.52
11:I1:1043:LEU:C	16:N1:430:ARG:CD	2.82	0.52
11:I1:1603:ARG:HH12	11:I2:1662:ARG:HB3	1.73	0.52
11:I1:1665:LEU:HA	11:I2:1667:GLN:C	2.34	0.52
11:I2:980:ILE:HD11	20:R3:147:LEU:N	2.22	0.52
11:I2:1425:TYR:OH	11:I2:1482:ASP:OD2	2.23	0.52
15:M3:494:GLU:OE2	15:M3:497:ARG:NH2	2.42	0.52
15:M4:494:GLU:OE2	15:M4:497:ARG:NH2	2.42	0.52
17:O4:109:PRO:CB	18:P4:318:PRO:HB3	2.39	0.52
21:S2:1036:ILE:HD11	21:S2:1073:ILE:HA	1.92	0.52
21:S3:1083:TRP:HA	21:S3:1083:TRP:HE3	1.73	0.52
21:S4:353:VAL:HG22	21:S4:374:THR:HG22	1.91	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
23:U3:431:ILE:H	23:U3:431:ILE:HD12	1.75	0.52
23:U4:431:ILE:H	23:U4:431:ILE:HD12	1.74	0.52
24:V1:345:SER:HB3	24:V1:371:PHE:CE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V1:433:GLU:OE1	24:V1:467:SER:OG	2.20	0.52
25:W1:275:ASP:N	25:W1:275:ASP:OD1	2.41	0.52
28:Z1:410:ASN:HD22	30:b1:252:ALA:CA	2.14	0.52
28:Z1:521:SER:OG	30:b1:238:ASN:HB3	2.09	0.52
28:Z3:438:GLU:CB	30:b3:333:HIS:HE1	2.22	0.52
28:Z4:521:SER:OG	30:b4:238:ASN:HB3	2.08	0.52
30:b3:138:ASN:HD22	30:b3:161:GLY:HA2	1.74	0.52
30:b4:264:ASP:OD1	30:b4:264:ASP:N	2.40	0.52
1:A1:834:GLU:CB	6:D3:302:PRO:HB3	2.32	0.52
1:A1:1201:ARG:CD	2:A2:734:LEU:CB	2.77	0.52
2:A2:978:ASP:O	6:D1:473:GLU:C	2.51	0.52
1:A3:1091:VAL:HG21	6:D3:808:ASN:CB	2.40	0.52
2:A4:871:ASN:O	2:A4:872:ALA:C	2.52	0.52
3:A5:998:SER:HB3	11:I5:62:GLU:CD	2.20	0.52
3:A5:1001:GLU:CG	11:I5:65:LYS:HB2	2.40	0.52
8:F1:383:HIS:ND1	8:F1:471:GLN:OE1	2.42	0.52
11:I1:877:ILE:CG2	17:O1:254:ARG:N	2.71	0.52
11:I1:930:LEU:HD13	15:M1:598:GLU:HG2	1.91	0.52
11:I1:1042:LEU:CD2	15:M1:607:SER:HB3	2.39	0.52
11:I1:1066:LEU:O	16:N1:429:GLU:CB	2.49	0.52
11:I1:1425:TYR:OH	11:I1:1482:ASP:OD2	2.23	0.52
11:I2:915:ALA:HB2	15:M3:584:GLN:N	2.23	0.52
11:I2:950:LEU:CD2	15:M3:606:LEU:CG	2.87	0.52
11:I2:1038:ILE:HD11	15:M3:621:ARG:CG	2.23	0.52
15:M1:494:GLU:OE2	15:M1:497:ARG:NH2	2.42	0.52
17:O2:81:LEU:O	17:O2:85:LYS:HG2	2.10	0.52
21:S1:1036:ILE:HD11	21:S1:1073:ILE:HA	1.92	0.52
21:S3:1036:ILE:HD11	21:S3:1073:ILE:HA	1.92	0.52
22:T4:910:MET:O	22:T4:914:GLN:HG3	2.10	0.52
23:U1:431:ILE:HD12	23:U1:431:ILE:H	1.74	0.52
25:W1:212:TRP:HA	25:W1:222:LEU:HD23	1.90	0.52
25:W2:154:ALA:HB2	25:W2:212:TRP:CE3	2.44	0.52
25:W3:154:ALA:HB2	25:W3:212:TRP:CE3	2.44	0.52
27:Y3:53:ALA:HB1	27:Y3:84:TRP:CZ2	2.44	0.52
27:Y4:53:ALA:HB1	27:Y4:84:TRP:CZ2	2.44	0.52
28:Z1:102:MET:HB3	28:Z1:107:THR:HG21	1.90	0.52
28:Z4:533:LEU:HB2	30:b4:164:CYS:SG	2.49	0.52
30:b3:130:LYS:O	30:b3:134:HIS:NE2	2.41	0.52
1:A1:1017:THR:HG21	1:A1:1048:ARG:HH11	1.74	0.52
2:A2:874:VAL:HG13	6:D1:611:LYS:HG2	1.87	0.52
2:A2:968:SER:O	6:D1:203:PRO:HD3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1140:GLU:CD	3:A5:135:PHE:CG	2.76	0.52
1:A3:1088:ASN:HA	6:D3:808:ASN:CG	2.33	0.52
2:A4:867:GLU:N	6:D3:605:THR:HG21	2.19	0.52
2:A4:867:GLU:C	6:D3:608:ILE:HD11	2.35	0.52
2:A4:874:VAL:CB	6:D3:571:SER:H	2.19	0.52
3:A5:153:ILE:CG1	5:C2:740:ARG:O	2.53	0.52
3:A5:1004:HIS:HE1	11:I5:62:GLU:N	2.03	0.52
3:A5:1094:ILE:HG12	11:I5:9:ALA:HA	1.91	0.52
3:A5:1398:LYS:HD3	28:Z2:873:LEU:O	2.02	0.52
3:A6:155:TYR:HH	5:C4:736:ASN:HD22	1.55	0.52
3:A6:232:LEU:CD2	5:C4:740:ARG:HG3	2.37	0.52
3:A6:1410:ALA:HB2	26:X4:743:PHE:O	2.10	0.52
6:D4:440:PHE:O	6:D4:444:LEU:HD13	2.08	0.52
11:I1:947:LEU:CD1	17:O1:256:TYR:HH	1.98	0.52
11:I1:955:LYS:CE	16:N1:400:LEU:HB2	1.82	0.52
11:I1:1114:VAL:CG2	16:N1:436:ALA:CA	2.73	0.52
11:I1:1644:ARG:CZ	12:J1:275:PHE:CE2	2.93	0.52
11:I1:1673:VAL:HG21	11:I2:1610:VAL:HG13	1.90	0.52
11:I2:834:SER:HA	17:O3:241:SER:N	2.25	0.52
11:I2:886:LEU:HB3	17:O3:242:ARG:HG2	1.91	0.52
11:I2:1041:GLN:H	15:M3:620:VAL:HG23	1.74	0.52
11:I2:1042:LEU:HB3	16:N3:430:ARG:NH2	2.25	0.52
11:I4:1644:ARG:HD3	12:J4:275:PHE:CE1	2.45	0.52
11:I4:1644:ARG:CZ	12:J4:275:PHE:CE2	2.93	0.52
11:I5:842:ASN:OD1	11:I5:843:GLU:N	2.43	0.52
11:I5:1279:THR:CB	26:X2:520:GLU:O	2.57	0.52
15:M2:494:GLU:OE2	15:M2:497:ARG:NH2	2.42	0.52
21:S3:245:LEU:HD22	21:S3:304:GLU:CD	2.34	0.52
24:V1:548:TYR:HB2	25:W1:64:PRO:HB3	1.90	0.52
28:Z1:521:SER:OG	30:b1:238:ASN:CB	2.57	0.52
28:Z1:554:PHE:O	30:b1:233:TRP:O	1.89	0.52
28:Z2:500:GLU:HB2	28:Z2:507:PHE:CZ	2.45	0.52
28:Z3:522:ASN:OD1	30:b3:241:PRO:CG	2.40	0.52
28:Z4:526:ARG:CB	30:b4:206:ASN:C	2.82	0.52
28:Z4:539:GLU:CB	30:b4:164:CYS:C	2.79	0.52
30:b2:264:ASP:OD1	30:b2:264:ASP:N	2.40	0.52
30:b3:11:PRO:HB2	30:b3:14:VAL:HG23	1.90	0.52
1:A1:1201:ARG:NE	2:A2:734:LEU:CG	2.71	0.52
2:A2:969:ASP:O	6:D1:192:TYR:CE1	2.62	0.52
2:A2:981:PRO:HG3	6:D1:504:LYS:HG3	1.84	0.52
2:A2:1163:TYR:CE2	3:A5:133:LYS:HE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:876:ARG:CG	6:D3:563:GLU:C	2.65	0.52
2:A4:1122:LEU:N	3:A6:133:LYS:HA	2.24	0.52
2:A4:1163:TYR:OH	3:A6:137:HIS:ND1	2.43	0.52
3:A5:1399:ARG:HD3	28:Z2:909:LEU:HA	1.92	0.52
5:C1:732:LYS:HE2	11:I1:1228:GLU:OE1	2.10	0.52
6:D7:532:LEU:O	6:D7:536:THR:HG23	2.08	0.52
9:G1:260:THR:OG1	17:O2:256:TYR:HA	2.10	0.52
11:I1:912:VAL:N	15:M1:584:GLN:HE22	2.03	0.52
11:I1:951:LYS:O	16:N1:403:VAL:N	2.41	0.52
11:I1:953:LEU:N	16:N1:403:VAL:HG22	1.78	0.52
11:I1:1021:ILE:HA	16:N1:406:HIS:CE1	2.40	0.52
11:I1:1038:ILE:HG13	20:R1:167:GLN:OE1	2.10	0.52
11:I2:842:ASN:OD1	11:I2:843:GLU:N	2.43	0.52
11:I2:884:LEU:O	16:N3:397:GLU:N	2.42	0.52
11:I2:921:GLU:C	15:M3:593:ALA:N	2.50	0.52
11:I2:950:LEU:HG	15:M3:606:LEU:HD11	1.90	0.52
11:I2:990:GLU:HB3	17:O3:272:SER:C	2.33	0.52
11:I2:1034:ASP:OD1	15:M3:627:LEU:HD23	2.10	0.52
11:I5:1276:GLN:N	26:X2:521:TRP:HD1	1.98	0.52
11:I5:1277:LEU:O	26:X2:517:ASP:OD1	2.27	0.52
21:S1:245:LEU:HD22	21:S1:304:GLU:CD	2.34	0.52
21:S4:176:MET:CE	21:S4:232:LEU:CD1	2.85	0.52
21:S4:1052:LEU:HD21	21:S4:1073:ILE:CD1	2.32	0.52
22:T1:910:MET:O	22:T1:914:GLN:HG3	2.10	0.52
23:U3:222:VAL:HG12	24:V3:256:VAL:HA	1.90	0.52
24:V1:524:ASN:O	24:V1:528:LEU:HG	2.10	0.52
24:V2:520:ARG:HH21	24:V2:542:GLN:HE21	1.58	0.52
28:Z2:521:SER:OG	30:b2:238:ASN:CB	2.57	0.52
28:Z2:527:SER:C	30:b2:184:SER:HG	2.18	0.52
28:Z2:539:GLU:CB	30:b2:164:CYS:C	2.79	0.52
28:Z3:91:LYS:NZ	28:Z3:142:ALA:O	2.30	0.52
2:A2:1122:LEU:CD1	3:A5:135:PHE:HB2	2.39	0.52
1:A3:1098:ARG:C	11:I2:1414:CYS:SG	2.92	0.52
2:A4:975:GLU:CG	6:D3:501:LEU:CB	2.71	0.52
2:A4:1023:ILE:O	2:A4:1024:ASP:HB3	2.09	0.52
3:A5:230:LYS:HA	5:C2:736:ASN:ND2	2.24	0.52
3:A5:1374:ALA:CA	28:Z2:823:ALA:HB1	2.40	0.52
3:A6:190:ALA:HA	5:C4:748:ASN:ND2	2.25	0.52
3:A6:190:ALA:HA	5:C4:748:ASN:HD21	1.72	0.52
3:A6:1312:ARG:H	28:Z4:830:LEU:CA	2.23	0.52
6:D6:610:ASN:O	6:D6:614:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1137:GLN:NE2	17:O4:252:VAL:N	2.37	0.52
9:G1:263:MET:HE1	16:N2:408:MET:HA	1.92	0.52
11:I1:843:GLU:HB3	15:M1:587:GLU:CD	2.32	0.52
11:I1:882:LYS:CB	17:O1:245:GLU:O	2.48	0.52
11:I1:920:PHE:CG	17:O1:243:LEU:HD22	2.44	0.52
11:I1:931:VAL:CG1	15:M1:604:ASN:HB2	2.38	0.52
11:I1:1054:ILE:C	17:O1:281:ALA:H	2.17	0.52
11:I1:1066:LEU:C	16:N1:430:ARG:HB3	2.30	0.52
11:I1:1543:LEU:O	12:J2:300:ILE:CB	2.40	0.52
11:I2:899:LEU:HG	17:O3:235:ASN:CB	2.40	0.52
11:I2:950:LEU:CD2	15:M3:606:LEU:CD2	2.88	0.52
11:I2:963:LEU:CD2	20:R3:168:LEU:HD11	2.29	0.52
11:I2:1037:THR:OG1	15:M3:620:VAL:CG1	2.51	0.52
11:I2:1644:ARG:CZ	12:J2:275:PHE:CE2	2.93	0.52
11:I3:301:GLN:N	11:I3:301:GLN:OE1	2.42	0.52
11:I4:1274:HIS:C	26:X3:525:ILE:CB	2.68	0.52
11:I4:1326:GLU:OE1	12:J4:251:TYR:CE2	2.63	0.52
11:I5:1644:ARG:CZ	12:J5:275:PHE:CE2	2.93	0.52
21:S4:1015:GLU:CD	21:S4:1041:ARG:HH21	2.18	0.52
22:T3:696:MET:HE3	22:T3:708:ALA:O	2.10	0.52
23:U2:431:ILE:H	23:U2:431:ILE:HD12	1.74	0.52
24:V4:524:ASN:O	24:V4:528:LEU:HG	2.10	0.52
25:W3:117:LEU:HB2	25:W3:153:TRP:HE1	1.75	0.52
28:Z3:528:ILE:CG1	30:b3:210:ARG:CZ	2.52	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:CB	2.57	0.52
28:Z4:532:PHE:H	30:b4:184:SER:HA	1.73	0.52
2:A2:982:THR:HA	6:D1:528:PHE:CE2	2.44	0.52
2:A2:983:LEU:HD21	6:D1:557:GLU:HG2	1.90	0.52
1:A3:1221:ILE:HD11	2:A4:618:ALA:HB2	1.91	0.52
1:A3:1332:ARG:NH2	6:D3:682:ASN:H	2.07	0.52
2:A4:879:LEU:HG	6:D3:567:LEU:HD11	1.91	0.52
2:A4:910:TYR:CD1	6:D3:555:ARG:O	2.62	0.52
2:A4:1131:ILE:CG2	3:A6:137:HIS:O	2.58	0.52
2:A4:1142:PHE:N	3:A6:135:PHE:CE2	2.77	0.52
3:A5:221:SER:O	5:C2:737:LYS:O	2.28	0.52
3:A5:862:LEU:CD1	3:A5:904:GLN:HB3	2.40	0.52
3:A6:1368:GLN:NE2	28:Z4:844:CYS:C	2.59	0.52
3:A6:1402:ASP:CG	28:Z4:887:ASP:CB	2.75	0.52
3:A6:1410:ALA:C	26:X4:742:ALA:CA	2.82	0.52
11:I1:834:SER:OG	17:O1:237:PRO:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:842:ASN:OD1	11:I1:843:GLU:N	2.43	0.52
11:I1:890:TYR:CE1	17:O1:240:GLY:CA	2.89	0.52
11:I1:936:LYS:HB2	15:M1:605:THR:HB	1.92	0.52
11:I1:1051:LYS:N	17:O1:290:TYR:CD2	2.74	0.52
11:I1:1109:LEU:CB	16:N1:437:VAL:O	2.54	0.52
11:I1:1670:GLY:CA	11:I2:1639:LEU:HD22	2.40	0.52
11:I2:895:ARG:NE	16:N3:386:MET:SD	2.81	0.52
11:I2:955:LYS:HE2	16:N3:396:ILE:O	2.10	0.52
11:I2:960:SER:O	20:R3:165:SER:CB	2.55	0.52
11:I2:976:ARG:HB3	20:R3:149:ARG:H	0.59	0.52
11:I2:1021:ILE:CA	16:N3:406:HIS:ND1	2.72	0.52
11:I2:1032:THR:HG23	15:M3:627:LEU:C	2.09	0.52
11:I2:1104:LEU:CB	16:N3:432:TYR:O	2.58	0.52
11:I5:816:ASP:OD1	11:I5:817:ASP:N	2.42	0.52
21:S1:353:VAL:HG22	21:S1:374:THR:HG22	1.91	0.52
22:T2:696:MET:HE3	22:T2:708:ALA:O	2.10	0.52
22:T2:818:TYR:CZ	22:T2:861:LEU:HD21	2.45	0.52
22:T4:818:TYR:CZ	22:T4:861:LEU:HD21	2.45	0.52
23:U2:222:VAL:HG12	24:V2:256:VAL:HA	1.90	0.52
23:U4:206:ILE:HG23	24:V4:336:LEU:HB3	1.91	0.52
27:Y2:53:ALA:HB1	27:Y2:84:TRP:CZ2	2.44	0.52
27:Y3:10:ASP:HB3	27:Y3:29:SER:HB2	1.92	0.52
28:Z1:410:ASN:CG	30:b1:252:ALA:HB2	2.23	0.52
28:Z1:539:GLU:CB	30:b1:164:CYS:C	2.79	0.52
28:Z2:555:LYS:HG3	30:b2:233:TRP:CE3	2.24	0.52
28:Z4:530:LYS:HZ3	30:b4:164:CYS:HA	1.75	0.52
30:b2:102:LEU:O	30:b2:113:LEU:HD12	2.10	0.52
30:b3:102:LEU:O	30:b3:113:LEU:HD12	2.10	0.52
30:b4:130:LYS:O	30:b4:134:HIS:NE2	2.41	0.52
2:A2:980:ARG:CG	6:D1:526:LEU:N	2.48	0.52
2:A2:1143:LEU:CB	3:A5:131:PRO:CA	2.58	0.52
2:A4:780:GLU:HG2	6:D3:679:ILE:CA	2.39	0.52
2:A4:868:GLN:CG	6:D3:570:VAL:CG1	2.84	0.52
2:A4:1131:ILE:N	3:A6:161[A]:ASP:OD2	2.41	0.52
3:A5:785:ILE:HD11	3:A5:825:ARG:CG	2.38	0.52
3:A6:1327:VAL:HG22	28:Z4:912:ASP:CB	2.28	0.52
3:A6:1392:ARG:NE	28:Z4:901:ARG:N	2.58	0.52
6:D1:610:ASN:O	6:D1:614:SER:N	2.43	0.52
6:D6:649:VAL:HG11	6:D6:660:LYS:HA	1.92	0.52
9:G2:257:THR:HG22	17:O4:258:GLU:N	2.11	0.52
11:I1:833:PHE:HD2	17:O1:237:PRO:C	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:913:ALA:N	15:M1:584:GLN:HE21	2.02	0.52
11:I1:1038:ILE:HD11	20:R1:167:GLN:OE1	1.94	0.52
11:I1:1049:LEU:CA	15:M1:622:VAL:CG1	2.88	0.52
11:I2:900:ARG:CG	17:O3:232:LYS:CE	2.88	0.52
11:I2:945:LEU:HD12	17:O3:254:ARG:O	2.10	0.52
11:I2:1067:PHE:HB3	16:N3:431:VAL:CG2	2.29	0.52
11:I3:1644:ARG:CZ	12:J3:275:PHE:CE2	2.93	0.52
15:M3:598:GLU:OE1	17:O3:254:ARG:NH1	2.40	0.52
17:O3:81:LEU:O	17:O3:85:LYS:HG2	2.10	0.52
21:S3:353:VAL:HG22	21:S3:374:THR:HG22	1.91	0.52
21:S3:969:THR:HA	22:T3:879:ASP:OD1	2.09	0.52
22:T4:770:VAL:HB	22:T4:802:TRP:CZ2	2.45	0.52
23:U2:157:ASP:HB3	24:V2:355:ILE:HG21	1.92	0.52
24:V1:389:THR:O	24:V1:393:GLY:HA3	2.10	0.52
24:V2:186:PHE:HD1	24:V2:487:LEU:HD11	1.74	0.52
27:Y4:10:ASP:HB3	27:Y4:29:SER:HB2	1.92	0.52
28:Z3:526:ARG:HB3	30:b3:206:ASN:HB2	1.80	0.52
28:Z4:402:GLY:HA2	30:b4:254:SER:OG	1.98	0.52
29:a3:231[A]:HIS:H	29:a3:231[A]:HIS:CD2	2.28	0.52
30:b1:51:PRO:C	30:b1:53:SER:H	2.18	0.52
1:A1:1052:THR:CA	6:D1:812:VAL:HG11	2.40	0.52
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HA	2.39	0.52
1:A1:1222:ALA:HA	2:A2:645:PHE:CE1	2.44	0.52
2:A2:776:MET:SD	6:D1:678:GLY:O	2.68	0.52
2:A2:864:ARG:HH12	6:D1:610:ASN:ND2	2.00	0.52
2:A4:980:ARG:HB3	2:A4:981:PRO:HD2	1.92	0.52
3:A5:1376:LEU:CD1	28:Z2:807:ILE:O	2.58	0.52
3:A5:1380:ALA:HB2	28:Z2:817:VAL:H	1.75	0.52
11:I1:959:SER:CA	16:N1:395:GLU:CB	2.52	0.52
11:I1:1103:LEU:HD11	20:R1:175:GLN:HG2	1.76	0.52
11:I1:1110:SER:H	16:N1:440:GLU:N	2.08	0.52
11:I2:884:LEU:HB2	11:I2:955:LYS:HZ1	1.74	0.52
11:I2:978:LYS:HG2	20:R3:151:LYS:CD	2.40	0.52
11:I2:1034:ASP:H	20:R3:177:LEU:HD23	1.75	0.52
11:I2:1644:ARG:HD3	12:J2:275:PHE:CE1	2.45	0.52
11:I3:1277:LEU:H	26:X1:523:LEU:HG	1.74	0.52
15:M1:605:THR:O	17:O1:261:LYS:NZ	2.43	0.52
17:O4:113:PRO:O	18:P4:325:ILE:CG2	2.58	0.52
21:S1:176:MET:CE	21:S1:232:LEU:CD1	2.85	0.52
21:S1:950:HIS:CE1	21:S1:995:MET:HE1	2.45	0.52
21:S2:353:VAL:HG22	21:S2:374:THR:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1036:ILE:HD11	21:S4:1073:ILE:HA	1.92	0.52
22:T3:891:VAL:CG1	22:T3:891:VAL:O	2.58	0.52
24:V3:389:THR:O	24:V3:393:GLY:HA3	2.10	0.52
24:V4:526:HIS:C	24:V4:528:LEU:N	2.68	0.52
27:Y2:10:ASP:HB3	27:Y2:29:SER:HB2	1.92	0.52
28:Z1:466:TYR:HB3	28:Z1:470:ILE:HB	1.92	0.52
28:Z4:526:ARG:HA	30:b4:206:ASN:ND2	2.23	0.52
30:b1:138:ASN:HD22	30:b1:161:GLY:HA2	1.74	0.52
30:b2:143:ALA:CB	30:b2:192:PHE:HD2	2.23	0.52
2:A2:776:MET:CG	6:D1:678:GLY:O	2.58	0.51
2:A2:864:ARG:HE	6:D1:632:ALA:HB1	1.74	0.51
2:A2:976:LEU:HA	6:D1:502:LEU:HB2	1.91	0.51
2:A2:980:ARG:CB	6:D1:526:LEU:CB	2.81	0.51
2:A2:1023:ILE:O	2:A2:1024:ASP:HB3	2.09	0.51
2:A2:1131:ILE:HG23	3:A5:165:PHE:HD2	1.75	0.51
2:A4:871:ASN:N	6:D3:570:VAL:HG23	2.18	0.51
2:A4:970:PHE:O	6:D3:202:GLN:NE2	2.33	0.51
2:A4:1142:PHE:O	3:A6:131:PRO:CA	2.55	0.51
2:A4:1159:ASP:CG	4:B6:343:LYS:C	2.76	0.51
3:A5:177:ILE:CD1	5:C2:740:ARG:CZ	2.84	0.51
3:A5:993:ASN:O	11:I5:57:GLU:CA	2.58	0.51
3:A6:1394:VAL:HB	28:Z4:869:HIS:CB	2.40	0.51
6:D2:610:ASN:O	6:D2:614:SER:N	2.43	0.51
6:D7:371:LEU:HD12	6:D7:372:ARG:N	2.25	0.51
8:F1:835:ILE:O	8:F1:835:ILE:HG13	2.09	0.51
8:F1:1094:GLY:CA	17:O2:237:PRO:CA	2.54	0.51
8:F1:1165:VAL:HG12	8:F1:1166:GLY:H	1.76	0.51
9:G2:256:GLN:HG2	17:O4:262:ASP:H	1.73	0.51
11:I1:873:ILE:C	17:O1:251:ILE:HG23	2.30	0.51
11:I1:880:MET:HE1	17:O1:254:ARG:NH1	2.25	0.51
11:I1:920:PHE:CZ	17:O1:247:TRP:CG	2.98	0.51
11:I1:939:ASN:HB3	17:O1:265:ASN:ND2	2.25	0.51
11:I1:952:LEU:C	16:N1:403:VAL:HG11	2.36	0.51
11:I1:980:ILE:O	15:M1:617:THR:HG23	2.10	0.51
11:I1:1610:VAL:HG11	11:I2:1669:ARG:HH22	1.74	0.51
11:I2:460:GLN:OE1	11:I2:460:GLN:N	2.39	0.51
11:I2:899:LEU:HD13	17:O3:230:ILE:O	2.08	0.51
11:I2:956:ILE:HG21	15:M3:600:ASN:CG	2.32	0.51
11:I2:961:ARG:CZ	16:N3:392:THR:OG1	2.58	0.51
11:I2:1033:PRO:C	20:R3:177:LEU:HG	2.35	0.51
11:I2:1041:GLN:CD	15:M3:617:THR:CG2	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1065:SER:HA	17:O3:274:GLY:C	2.35	0.51
11:I3:1277:LEU:N	26:X1:522:MET:CB	2.52	0.51
11:I4:842:ASN:OD1	11:I4:843:GLU:N	2.43	0.51
11:I4:1269:ARG:HG2	26:X3:527:VAL:HG12	1.92	0.51
11:I4:1270:LYS:HE2	26:X3:530:ARG:CD	2.39	0.51
21:S2:176:MET:HE1	21:S2:232:LEU:HD13	1.89	0.51
21:S2:988:LEU:O	21:S2:992:ILE:HG22	2.11	0.51
21:S4:1045:GLU:HG2	21:S4:1099:SER:OG	2.10	0.51
22:T1:770:VAL:HB	22:T1:802:TRP:CZ2	2.45	0.51
22:T3:818:TYR:CZ	22:T3:861:LEU:HD21	2.45	0.51
22:T4:738:ALA:HA	22:T4:833:ARG:HG2	1.92	0.51
23:U3:157:ASP:HB3	24:V3:355:ILE:HG21	1.92	0.51
24:V1:526:HIS:C	24:V1:528:LEU:N	2.68	0.51
24:V3:153:LYS:HA	25:W3:261:SER:CB	2.41	0.51
25:W1:117:LEU:HB2	25:W1:153:TRP:HE1	1.75	0.51
27:Y2:117:ALA:HB3	27:Y2:124:LYS:HB3	1.92	0.51
28:Z4:438:GLU:CB	30:b4:333:HIS:HE1	2.22	0.51
2:A2:1168:LEU:N	4:B5:342:ARG:NH1	2.57	0.51
1:A3:1204:TRP:HB3	2:A4:731:ILE:C	2.34	0.51
3:A5:1046:LEU:HD11	11:I5:70:GLU:CB	2.32	0.51
3:A5:1094:ILE:HD12	11:I5:34:LEU:CD2	2.41	0.51
3:A5:1094:ILE:CD1	11:I5:34:LEU:HD22	2.41	0.51
3:A6:163:SER:HB3	5:C4:743:LEU:HD21	1.90	0.51
3:A6:166:LEU:HD11	5:C4:741:THR:O	1.84	0.51
3:A6:862:LEU:CD1	3:A6:904:GLN:HB3	2.40	0.51
3:A6:1310:ARG:CG	28:Z4:827:GLN:N	2.73	0.51
3:A6:1388:ALA:O	28:Z4:866:GLU:N	2.43	0.51
8:F1:1088:GLU:OE1	17:O2:245:GLU:HB2	2.09	0.51
8:F1:1093:LEU:CB	17:O2:244:GLU:OE2	2.51	0.51
8:F1:1807:GLU:N	8:F1:1807:GLU:OE1	2.42	0.51
8:F2:472:ARG:NH2	11:I2:171:TRP:HB2	2.26	0.51
11:I1:876:ALA:C	17:O1:248:SER:O	2.53	0.51
11:I1:898:VAL:HG21	17:O1:236:ASP:HA	1.91	0.51
11:I1:921:GLU:CB	16:N1:392:THR:HB	2.35	0.51
11:I1:1048:GLU:H	17:O1:287:LEU:CD1	1.85	0.51
11:I1:1052:LEU:H	17:O1:286:ILE:HG22	1.74	0.51
11:I2:967:SER:HB2	15:M3:625:GLY:HA2	1.53	0.51
11:I2:1035:GLN:HG2	15:M3:624:ASN:C	2.35	0.51
11:I2:1037:THR:CG2	20:R3:170:LEU:N	2.73	0.51
11:I2:1067:PHE:CG	16:N3:428:ASP:O	2.49	0.51
11:I3:702:GLN:OE1	11:I3:702:GLN:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O2:107:THR:HG23	18:P2:321:ILE:HD13	1.92	0.51
21:S2:1036:ILE:CD1	21:S2:1073:ILE:HA	2.41	0.51
21:S3:1045:GLU:HG2	21:S3:1099:SER:OG	2.10	0.51
22:T2:773:LYS:HG3	22:T2:774:PRO:HD2	1.92	0.51
22:T2:891:VAL:CG1	22:T2:891:VAL:O	2.58	0.51
22:T3:738:ALA:HA	22:T3:833:ARG:HG2	1.92	0.51
22:T3:854:LEU:HB2	22:T3:891:VAL:HG11	1.92	0.51
22:T3:910:MET:O	22:T3:914:GLN:HG3	2.10	0.51
22:T4:885:ARG:HG3	22:T4:885:ARG:NH1	2.17	0.51
23:U4:8:GLN:C	23:U4:10:GLU:N	2.68	0.51
28:Z1:531:LYS:HZ1	30:b1:166:LEU:CB	2.12	0.51
28:Z1:539:GLU:OE1	30:b1:163:ASP:OD1	2.17	0.51
28:Z2:70:TYR:HA	28:Z2:80:THR:O	2.10	0.51
28:Z4:500:GLU:HB2	28:Z4:507:PHE:CZ	2.45	0.51
30:b1:143:ALA:CB	30:b1:192:PHE:HD2	2.23	0.51
30:b2:133:HIS:CD2	30:b2:167:ILE:HD12	2.46	0.51
30:b3:51:PRO:C	30:b3:53:SER:H	2.18	0.51
30:b4:83:GLU:HA	30:b4:96:PRO:HA	1.92	0.51
30:b4:114:ILE:HG23	30:b4:121:ILE:HG23	1.93	0.51
30:b4:143:ALA:CB	30:b4:192:PHE:HD2	2.23	0.51
1:A1:1332:ARG:CZ	6:D1:681:ALA:HB1	2.40	0.51
2:A2:1151:THR:CG2	5:C2:734:VAL:O	2.57	0.51
1:A3:1233:GLN:HE22	2:A4:726:ALA:HB2	0.71	0.51
2:A4:975:GLU:O	6:D3:496:LEU:CA	2.54	0.51
2:A4:980:ARG:HD2	6:D3:503:LEU:O	2.10	0.51
3:A5:996:ASN:HB3	11:I5:56:ARG:O	2.06	0.51
3:A6:189:VAL:N	5:C4:746:PRO:O	2.44	0.51
3:A6:1358:LEU:HD23	28:Z4:878:HIS:CB	2.39	0.51
6:D7:649:VAL:HG11	6:D7:660:LYS:HA	1.92	0.51
8:F1:1091:SER:HB3	17:O2:242:ARG:N	2.26	0.51
8:F2:1066:ALA:HB3	8:F2:1067:PRO:HD3	1.91	0.51
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD11	1.91	0.51
11:I1:1109:LEU:HA	17:O1:290:TYR:OH	2.10	0.51
11:I1:1644:ARG:HD3	12:J1:275:PHE:CE1	2.45	0.51
11:I2:884:LEU:O	16:N3:397:GLU:CA	2.58	0.51
11:I2:887:GLN:HE22	16:N3:396:ILE:CG1	2.22	0.51
11:I2:896:PRO:CD	17:O3:233:THR:HA	2.41	0.51
11:I2:947:LEU:CD1	17:O3:260:LEU:CD2	2.59	0.51
11:I2:962:ILE:CB	15:M3:596:ILE:CG2	2.83	0.51
11:I2:980:ILE:CD1	15:M3:622:VAL:HG22	2.35	0.51
11:I2:1046:HIS:O	17:O3:284:LYS:CA	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1101:LEU:HD22	16:N3:432:TYR:CE1	2.31	0.51
11:I3:816:ASP:OD1	11:I3:817:ASP:N	2.42	0.51
11:I3:1326:GLU:OE1	12:J3:251:TYR:CE2	2.63	0.51
11:I4:1425:TYR:OH	11:I4:1482:ASP:OD2	2.23	0.51
21:S1:1015:GLU:CD	21:S1:1041:ARG:HH21	2.18	0.51
21:S2:1070:LYS:NZ	21:S2:1121:GLU:HB3	2.26	0.51
22:T1:760:PHE:HD1	22:T1:864:ILE:HD11	1.74	0.51
22:T1:818:TYR:CZ	22:T1:861:LEU:HD21	2.45	0.51
24:V1:178:THR:HG21	24:V1:485:ALA:HB2	1.90	0.51
24:V2:389:THR:O	24:V2:393:GLY:HA3	2.10	0.51
26:X2:152:LEU:O	26:X2:156:GLU:HG3	2.11	0.51
28:Z3:400:LYS:HB3	30:b3:205:ARG:NH2	2.25	0.51
28:Z3:500:GLU:HB2	28:Z3:507:PHE:CZ	2.45	0.51
28:Z3:554:PHE:HE2	30:b3:234:LEU:HD23	1.74	0.51
28:Z4:535:ILE:HD11	30:b4:182:PRO:CG	2.41	0.51
30:b2:384:ARG:HE	30:b2:389:THR:CG2	2.24	0.51
1:A1:1399:ARG:HB3	2:A2:884:ARG:HB3	1.92	0.51
2:A2:871:ASN:CB	6:D1:567:LEU:O	2.57	0.51
2:A2:980:ARG:HB3	2:A2:981:PRO:HD2	1.93	0.51
2:A4:867:GLU:OE2	6:D3:609:ILE:HG13	2.10	0.51
2:A4:880:ALA:CB	6:D3:558:LYS:HD3	2.40	0.51
3:A6:189:VAL:HG11	5:C4:742:ASP:N	2.23	0.51
3:A6:221:SER:H	5:C4:738:ASP:CB	2.24	0.51
3:A6:1391:ARG:HD3	28:Z4:868:GLN:CA	2.37	0.51
3:A6:1401:VAL:CB	28:Z4:919:PHE:CA	2.86	0.51
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CG	2.22	0.51
6:D4:371:LEU:HD12	6:D4:372:ARG:N	2.26	0.51
8:F2:1165:VAL:HG12	8:F2:1166:GLY:H	1.76	0.51
11:I1:876:ALA:C	17:O1:248:SER:HA	2.36	0.51
11:I1:937:TYR:O	17:O1:261:LYS:N	2.34	0.51
11:I1:950:LEU:CD2	15:M1:606:LEU:CD2	2.89	0.51
11:I1:1034:ASP:CB	16:N1:444:SER:OG	2.58	0.51
11:I2:624:GLU:O	11:I2:627:ASN:ND2	2.40	0.51
11:I2:955:LYS:CB	16:N3:400:LEU:CG	2.88	0.51
11:I2:1055:GLU:N	17:O3:281:ALA:H	2.04	0.51
11:I3:401:GLN:N	11:I3:401:GLN:OE1	2.44	0.51
11:I3:842:ASN:OD1	11:I3:843:GLU:N	2.43	0.51
11:I4:1034:ASP:OD1	11:I4:1035:GLN:N	2.44	0.51
11:I5:460:GLN:OE1	11:I5:460:GLN:N	2.39	0.51
11:I5:1644:ARG:HD3	12:J5:275:PHE:CE1	2.45	0.51
12:J2:240:GLY:O	12:J2:241:THR:OG1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:106:HIS:C	18:P4:318:PRO:HG3	2.36	0.51
21:S3:1070:LYS:NZ	21:S3:1121:GLU:HB3	2.26	0.51
21:S4:1036:ILE:CD1	21:S4:1073:ILE:HA	2.41	0.51
22:T1:891:VAL:CG1	22:T1:891:VAL:O	2.58	0.51
22:T2:854:LEU:HB2	22:T2:891:VAL:HG11	1.93	0.51
22:T4:760:PHE:HD1	22:T4:864:ILE:HD11	1.74	0.51
23:U1:157:ASP:HB3	24:V1:355:ILE:HG21	1.92	0.51
24:V1:483:GLU:OE2	24:V1:514:ARG:NH2	2.35	0.51
24:V1:520:ARG:HH21	24:V1:542:GLN:HE21	1.58	0.51
24:V4:389:THR:O	24:V4:393:GLY:HA3	2.10	0.51
24:V4:520:ARG:HH21	24:V4:542:GLN:HE21	1.58	0.51
28:Z1:554:PHE:HE2	30:b1:234:LEU:HD23	1.74	0.51
28:Z4:400:LYS:HB3	30:b4:205:ARG:NH2	2.25	0.51
30:b1:102:LEU:O	30:b1:113:LEU:HD12	2.10	0.51
30:b2:114:ILE:HG23	30:b2:121:ILE:HG23	1.93	0.51
30:b3:143:ALA:CB	30:b3:192:PHE:HD2	2.23	0.51
30:b4:138:ASN:HD22	30:b4:161:GLY:HA2	1.74	0.51
1:A1:1204:TRP:CZ3	2:A2:734:LEU:HD11	2.39	0.51
1:A1:1223:GLU:CG	2:A2:734:LEU:CD2	2.86	0.51
1:A1:1393:THR:CA	2:A2:851:ASP:OD1	2.59	0.51
2:A2:968:SER:CA	6:D1:202:GLN:CA	2.85	0.51
2:A2:970:PHE:HB2	6:D1:202:GLN:NE2	2.26	0.51
2:A2:1143:LEU:HB3	3:A5:132:ASP:H	1.68	0.51
2:A2:1154:PHE:C	3:A5:175:GLU:N	2.68	0.51
2:A2:1162:ASN:OD1	4:B5:343:LYS:O	2.08	0.51
2:A4:780:GLU:CB	6:D3:677:GLN:O	2.59	0.51
2:A4:823:VAL:CG2	2:A4:856:PHE:CE1	2.72	0.51
2:A4:876:ARG:CG	6:D3:558:LYS:CA	2.51	0.51
2:A4:986:THR:HG22	6:D3:504:LYS:HE2	1.92	0.51
2:A4:1160:GLN:NE2	3:A6:177:ILE:HB	2.26	0.51
3:A5:1151:THR:CB	5:C5:733:LEU:HD12	2.41	0.51
3:A6:209:VAL:HG21	5:C4:742:ASP:OD2	2.10	0.51
3:A6:777:LEU:HD13	3:A6:822:ILE:HD11	1.90	0.51
3:A6:1312:ARG:N	28:Z4:830:LEU:HA	2.26	0.51
3:A6:1385:GLU:O	28:Z4:862:GLN:C	2.51	0.51
5:C1:732:LYS:HE3	11:I1:1225:LYS:HD2	1.86	0.51
6:D4:610:ASN:O	6:D4:614:SER:N	2.43	0.51
8:F1:1832:ASN:N	8:F1:1835:GLU:OE2	2.44	0.51
8:F2:383:HIS:ND1	8:F2:471:GLN:OE1	2.42	0.51
11:I1:878:GLN:N	17:O1:252:VAL:HB	2.24	0.51
11:I1:913:ALA:H	15:M1:584:GLN:CG	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:951:LYS:CG	17:O1:253:LEU:HD11	2.40	0.51
11:I1:1326:GLU:OE1	12:J1:251:TYR:CE2	2.63	0.51
11:I2:945:LEU:HD11	17:O3:258:GLU:H	1.68	0.51
11:I2:945:LEU:CB	17:O3:260:LEU:H	2.24	0.51
11:I3:715:GLY:O	29:a2:40[A]:GLU:OE2	2.28	0.51
11:I3:1272:TYR:CE2	26:X1:523:LEU:HB2	2.45	0.51
11:I5:401:GLN:N	11:I5:401:GLN:OE1	2.43	0.51
17:O1:81:LEU:O	17:O1:85:LYS:HG2	2.10	0.51
17:O3:154:ARG:HD3	18:P3:324:LEU:CD1	2.37	0.51
17:O4:81:LEU:O	17:O4:85:LYS:HG2	2.10	0.51
21:S1:1070:LYS:NZ	21:S1:1121:GLU:HB3	2.26	0.51
21:S3:934:HIS:C	21:S3:936:SER:H	2.18	0.51
21:S4:946:LEU:HB3	21:S4:981:SER:HB3	1.93	0.51
21:S4:1070:LYS:NZ	21:S4:1121:GLU:HB3	2.26	0.51
22:T1:685:ARG:HH21	22:T1:716:PRO:HG2	1.75	0.51
22:T1:854:LEU:HB2	22:T1:891:VAL:HG11	1.93	0.51
23:U4:157:ASP:HB3	24:V4:355:ILE:HG21	1.92	0.51
24:V1:153:LYS:HA	25:W1:261:SER:CB	2.41	0.51
25:W2:138:PRO:HB2	25:W2:140:ILE:HD11	1.93	0.51
28:Z1:402:GLY:HA2	30:b1:254:SER:OG	1.98	0.51
28:Z1:500:GLU:HB2	28:Z1:507:PHE:CZ	2.45	0.51
28:Z2:438:GLU:CG	30:b2:314:PRO:HG2	2.41	0.51
28:Z4:401:THR:HA	30:b4:252:ALA:CA	2.40	0.51
28:Z4:534:ASP:N	30:b4:164:CYS:HB2	2.23	0.51
30:b1:337:GLY:HA3	30:b1:358:MET:O	2.11	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:b3:133:HIS:CD2	30:b3:167:ILE:HD12	2.46	0.51
1:A1:871:ASN:CA	6:D3:279:HIS:H	2.18	0.51
2:A2:909:LYS:N	6:D1:552:TYR:CE1	2.74	0.51
2:A2:1094:ILE:HD12	6:D2:708:ASP:OD1	2.09	0.51
2:A2:1134:GLU:OE1	3:A5:146:LYS:HG3	2.10	0.51
1:A3:1052:THR:HG22	6:D3:812:VAL:O	2.05	0.51
1:A3:1098:ARG:CD	11:I2:1414:CYS:SG	2.98	0.51
2:A4:198:VAL:O	4:B4:353:LEU:CB	2.58	0.51
2:A4:875:LEU:CD1	6:D3:567:LEU:HG	2.30	0.51
3:A6:220:VAL:HG13	5:C4:739:MET:CA	2.39	0.51
6:D6:371:LEU:HD12	6:D6:372:ARG:N	2.26	0.51
8:F1:982:PRO:CB	11:I1:1388:GLU:HG2	2.41	0.51
8:F1:1000:LEU:HD12	8:F1:1001:ILE:HG23	1.93	0.51
9:G1:258:LYS:O	17:O2:256:TYR:HB3	2.03	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:917:TYR:CE2	15:M1:586:ASP:O	2.64	0.51
11:I2:849:LEU:CD2	17:O3:251:ILE:HD11	2.40	0.51
11:I2:1023:ASP:HB2	16:N3:406:HIS:HA	1.92	0.51
11:I2:1050:SER:HB2	17:O3:290:TYR:CB	2.25	0.51
11:I2:1114:VAL:N	16:N3:435:ALA:CB	2.57	0.51
11:I2:1609:GLY:CA	12:J1:295:TYR:HE1	2.23	0.51
11:I3:1273:GLU:CB	26:X1:526:CYS:C	2.83	0.51
11:I5:1278:ALA:CB	26:X2:517:ASP:OD1	2.58	0.51
21:S1:622:GLY:O	21:S1:623:ARG:O	2.27	0.51
21:S1:988:LEU:O	21:S1:992:ILE:HG22	2.11	0.51
21:S2:946:LEU:HB3	21:S2:981:SER:HB3	1.93	0.51
21:S2:950:HIS:CE1	21:S2:995:MET:HE1	2.45	0.51
21:S2:1015:GLU:CD	21:S2:1041:ARG:HH21	2.18	0.51
22:T4:696:MET:HE3	22:T4:708:ALA:O	2.10	0.51
24:V2:524:ASN:O	24:V2:528:LEU:HG	2.10	0.51
24:V3:483:GLU:OE2	24:V3:514:ARG:NH2	2.35	0.51
25:W2:62:ALA:HB2	25:W2:107:TRP:CE2	2.46	0.51
25:W2:259:ARG:HB2	25:W2:272:SER:HB2	1.93	0.51
25:W3:259:ARG:HB2	25:W3:272:SER:HB2	1.93	0.51
28:Z1:190:ASP:OD2	28:Z1:191:GLY:N	2.44	0.51
28:Z2:539:GLU:HA	30:b2:163:ASP:OD2	2.11	0.51
28:Z4:466:TYR:HB3	28:Z4:470:ILE:HB	1.92	0.51
28:Z4:561:GLN:CD	30:b4:235:LEU:CD2	2.84	0.51
30:b3:83:GLU:HA	30:b3:96:PRO:HA	1.92	0.51
30:b4:102:LEU:O	30:b4:113:LEU:HD12	2.10	0.51
30:b4:384:ARG:HE	30:b4:389:THR:CG2	2.24	0.51
1:A1:790:ASP:OD1	1:A1:790:ASP:N	2.35	0.51
2:A2:1122:LEU:H	3:A5:132:ASP:HB2	1.75	0.51
2:A2:1143:LEU:HB2	3:A5:131:PRO:CA	2.37	0.51
1:A3:1021:LEU:HB2	6:D3:816:VAL:O	2.11	0.51
2:A4:872:ALA:C	6:D3:565:MET:CA	2.54	0.51
2:A4:911:TYR:OH	6:D3:555:ARG:NH2	2.42	0.51
2:A4:978:ASP:H	6:D3:492:VAL:CG1	2.24	0.51
2:A4:1146:PRO:CD	3:A6:129:ASN:HD22	2.22	0.51
2:A4:1153:LEU:HG	3:A6:173:ASN:OD1	2.11	0.51
3:A5:1029:ILE:N	11:I5:67:LYS:CA	2.73	0.51
3:A5:1310:ARG:HE	28:Z2:827:GLN:C	2.19	0.51
3:A6:1360:GLY:HA3	28:Z4:885:VAL:CB	2.41	0.51
3:A6:1393:THR:CA	28:Z4:904:PHE:C	2.83	0.51
5:C1:732:LYS:NZ	11:I1:1228:GLU:HB3	2.25	0.51
5:C1:732:LYS:CE	11:I1:1228:GLU:HB3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1389:LEU:CD2	17:O2:266:GLN:OE1	2.59	0.51
11:I1:460:GLN:OE1	11:I1:460:GLN:N	2.39	0.51
11:I1:957:SER:HB2	20:R1:168:LEU:HA	1.92	0.51
11:I1:1064:LYS:O	17:O1:274:GLY:CA	2.58	0.51
11:I2:927:HIS:CA	15:M3:597:LYS:HB3	2.40	0.51
11:I2:944:GLU:O	17:O3:256:TYR:O	2.20	0.51
11:I2:1042:LEU:HD21	15:M3:608:LYS:HB2	1.91	0.51
11:I4:624:GLU:O	11:I4:627:ASN:ND2	2.40	0.51
11:I5:1326:GLU:OE1	12:J5:251:TYR:CE2	2.63	0.51
15:M4:605:THR:O	17:O4:261:LYS:NZ	2.43	0.51
22:T1:696:MET:HE3	22:T1:708:ALA:O	2.10	0.51
22:T2:685:ARG:HH21	22:T2:716:PRO:HG2	1.75	0.51
22:T4:854:LEU:HB2	22:T4:891:VAL:HG11	1.92	0.51
22:T4:891:VAL:CG1	22:T4:891:VAL:O	2.58	0.51
24:V1:186:PHE:CD1	24:V1:487:LEU:HD11	2.46	0.51
28:Z1:526:ARG:HB3	30:b1:206:ASN:HB2	1.80	0.51
28:Z1:527:SER:C	30:b1:184:SER:HG	2.17	0.51
28:Z2:58:ASN:HB3	28:Z2:70:TYR:CZ	2.46	0.51
28:Z2:258:ASP:OD1	28:Z2:260:VAL:HG22	2.11	0.51
28:Z3:70:TYR:HA	28:Z3:80:THR:O	2.10	0.51
28:Z3:438:GLU:CG	30:b3:314:PRO:HG2	2.41	0.51
28:Z3:524:VAL:HG13	30:b3:236:THR:C	2.30	0.51
30:b3:337:GLY:HA3	30:b3:358:MET:O	2.11	0.51
30:b4:133:HIS:CD2	30:b4:167:ILE:HD12	2.46	0.51
1:A1:1225:PRO:O	2:A2:728:LYS:N	2.43	0.51
2:A2:877:ALA:CA	6:D1:563:GLU:HA	2.41	0.51
2:A2:1164:TYR:C	4:B5:342:ARG:HE	2.09	0.51
2:A2:1228:TYR:O	2:A2:1232:SER:OG	2.29	0.51
2:A4:235:TYR:HE1	4:B4:347:LEU:CD1	2.21	0.51
2:A4:908:LEU:CD2	6:D3:601:PHE:HB2	2.38	0.51
2:A4:1130:ARG:NH2	3:A6:162:SER:OG	2.44	0.51
3:A6:153:ILE:HB	5:C4:739:MET:CE	2.40	0.51
3:A6:1312:ARG:CZ	28:Z4:829:SER:HA	2.41	0.51
3:A6:1409:MSE:SE	28:Z4:917:ASP:O	2.79	0.51
6:D5:371:LEU:HD12	6:D5:372:ARG:N	2.25	0.51
8:F2:1832:ASN:N	8:F2:1835:GLU:OE2	2.44	0.51
11:I1:401:GLN:N	11:I1:401:GLN:OE1	2.44	0.51
11:I1:624:GLU:O	11:I1:627:ASN:ND2	2.40	0.51
11:I1:836:VAL:HG12	17:O1:244:GLU:CG	1.93	0.51
11:I1:930:LEU:C	15:M1:598:GLU:O	2.53	0.51
11:I1:945:LEU:CB	17:O1:259:ASP:H	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:952:LEU:HG	15:M1:599:ILE:HG23	1.92	0.51
11:I1:1023:ASP:CB	16:N1:405:ALA:HB3	2.32	0.51
11:I1:1052:LEU:N	16:N1:438:LEU:HD22	2.26	0.51
11:I1:1055:GLU:CA	17:O1:281:ALA:N	2.59	0.51
11:I2:925:LEU:CG	15:M3:593:ALA:HB1	2.40	0.51
11:I2:945:LEU:CB	17:O3:260:LEU:N	2.68	0.51
11:I2:950:LEU:CD2	16:N3:406:HIS:HE2	2.20	0.51
11:I2:952:LEU:CA	16:N3:403:VAL:HG21	2.41	0.51
11:I2:1013:GLU:HA	16:N3:411:GLN:OE1	2.10	0.51
11:I2:1052:LEU:CB	16:N3:438:LEU:HD11	2.40	0.51
11:I2:1058:GLY:CA	17:O3:277:GLU:O	2.57	0.51
11:I2:1326:GLU:OE1	12:J2:251:TYR:CE2	2.63	0.51
11:I3:1425:TYR:OH	11:I3:1482:ASP:OD2	2.23	0.51
11:I4:1274:HIS:CA	26:X3:522:MET:O	2.59	0.51
21:S2:1030:GLN:O	21:S2:1034:LEU:HB2	2.11	0.51
21:S2:1052:LEU:HD21	21:S2:1073:ILE:CD1	2.32	0.51
21:S2:1120:PRO:CD	21:S2:1155:GLN:HE22	2.19	0.51
21:S3:988:LEU:O	21:S3:992:ILE:HG22	2.11	0.51
21:S4:1070:LYS:O	21:S4:1074:LEU:HD12	2.11	0.51
22:T1:738:ALA:HA	22:T1:833:ARG:HG2	1.92	0.51
22:T1:773:LYS:HG3	22:T1:774:PRO:HD2	1.92	0.51
22:T4:862:HIS:NE2	22:T4:903:LYS:HB3	2.26	0.51
23:U2:8:GLN:C	23:U2:10:GLU:N	2.68	0.51
24:V3:524:ASN:O	24:V3:528:LEU:HG	2.10	0.51
24:V4:153:LYS:HA	25:W4:261:SER:CB	2.41	0.51
25:W2:117:LEU:HB2	25:W2:153:TRP:HE1	1.75	0.51
26:X1:152:LEU:O	26:X1:156:GLU:HG3	2.11	0.51
28:Z1:58:ASN:HB3	28:Z1:70:TYR:CZ	2.46	0.51
28:Z1:438:GLU:CB	30:b1:333:HIS:HE1	2.22	0.51
28:Z1:561:GLN:CD	30:b1:235:LEU:CD2	2.84	0.51
28:Z2:401:THR:HA	30:b2:252:ALA:CA	2.40	0.51
28:Z2:554:PHE:HE2	30:b2:234:LEU:HD23	1.74	0.51
28:Z2:554:PHE:HD1	30:b2:232:PRO:HB2	1.71	0.51
30:b1:83:GLU:HA	30:b1:96:PRO:HA	1.92	0.51
30:b1:212:PHE:HE1	30:b1:233:TRP:CE3	2.29	0.51
30:b3:212:PHE:HE1	30:b3:233:TRP:CE3	2.29	0.51
30:b3:384:ARG:HE	30:b3:389:THR:CG2	2.24	0.51
2:A2:225:THR:H	6:D1:709:ARG:NH1	2.05	0.51
2:A2:1153:LEU:HA	3:A5:174:PRO:O	2.11	0.51
2:A2:1344:ALA:O	2:A2:1345:SER:CB	2.58	0.51
2:A4:1134:GLU:CA	3:A6:145:THR:CB	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1369:ILE:CD1	28:Z2:833:ASP:N	2.51	0.51
3:A6:175:GLU:HB3	5:C4:733:LEU:HD12	1.88	0.51
3:A6:1414:PHE:CB	28:Z4:967:PHE:CB	2.87	0.51
6:D2:371:LEU:HD12	6:D2:372:ARG:N	2.26	0.51
6:D7:537:ARG:CB	11:I3:43:LYS:HZ2	2.24	0.51
11:I1:1028:CYS:SG	20:R1:168:LEU:CB	2.97	0.51
11:I1:1034:ASP:OD1	11:I1:1035:GLN:N	2.44	0.51
11:I2:846:ILE:CB	17:O3:247:TRP:CH2	2.91	0.51
11:I2:927:HIS:NE2	15:M3:594:LYS:HG3	2.26	0.51
11:I2:943:ALA:CA	17:O3:260:LEU:HD13	2.19	0.51
11:I2:1017:VAL:HG12	16:N3:410:MET:HG3	1.93	0.51
11:I2:1029:LEU:N	20:R3:171:ALA:CA	2.73	0.51
11:I2:1034:ASP:OD1	11:I2:1035:GLN:N	2.44	0.51
11:I2:1036:PRO:O	15:M3:620:VAL:O	2.28	0.51
11:I2:1109:LEU:CB	17:O3:290:TYR:CZ	2.86	0.51
11:I4:1269:ARG:HG2	26:X3:527:VAL:CG1	2.41	0.51
11:I4:1277:LEU:HG	26:X3:521:TRP:HE3	1.76	0.51
21:S2:934:HIS:C	21:S2:936:SER:H	2.17	0.51
21:S3:882:GLN:C	21:S3:884:ARG:N	2.69	0.51
21:S4:988:LEU:O	21:S4:992:ILE:HG22	2.11	0.51
22:T2:862:HIS:NE2	22:T2:903:LYS:HB3	2.26	0.51
22:T3:770:VAL:HB	22:T3:802:TRP:CZ2	2.45	0.51
23:U3:8:GLN:C	23:U3:10:GLU:N	2.68	0.51
24:V2:186:PHE:CD1	24:V2:487:LEU:HD11	2.46	0.51
25:W4:259:ARG:HB2	25:W4:272:SER:HB2	1.93	0.51
27:Y1:53:ALA:HB1	27:Y1:84:TRP:CZ2	2.45	0.51
27:Y4:41:ASP:HA	29:a4:231[B]:HIS:NE2	2.17	0.51
28:Z1:561:GLN:CG	30:b1:235:LEU:HD23	2.35	0.51
28:Z2:535:ILE:HD11	30:b2:182:PRO:CG	2.41	0.51
28:Z3:407:GLY:C	30:b3:251:ILE:CG1	2.84	0.51
30:b2:258:VAL:HG13	30:b2:270:ALA:HB2	1.93	0.51
1:A1:1204:TRP:HH2	2:A2:757:LEU:CD2	1.99	0.51
1:A1:1224:PRO:HG2	2:A2:728:LYS:CA	2.41	0.51
1:A3:862:LEU:CD1	1:A3:904:GLN:HB3	2.41	0.51
2:A4:863:GLN:CA	6:D3:603:SER:O	2.57	0.51
2:A4:865:ALA:CB	6:D3:567:LEU:CD1	2.89	0.51
2:A4:876:ARG:HG3	6:D3:557:GLU:O	2.11	0.51
3:A5:1367:THR:HG21	28:Z2:844:CYS:O	2.06	0.51
3:A5:1368:GLN:HB2	28:Z2:841:ALA:C	2.35	0.51
3:A6:1355:VAL:C	28:Z4:877:ILE:CA	2.82	0.51
6:D2:606:LYS:N	6:D2:607:PRO:CD	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:606:LYS:N	6:D5:607:PRO:CD	2.74	0.51
9:G1:262:SER:N	17:O2:256:TYR:CE1	2.75	0.51
9:G2:256:GLN:HB3	17:O4:262:ASP:N	2.21	0.51
11:I1:918:SER:OG	16:N1:389:PHE:CG	2.57	0.51
11:I1:1036:PRO:CA	16:N1:441:PHE:CE2	2.93	0.51
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD2	2.74	0.51
11:I2:882:LYS:HB3	17:O3:245:GLU:O	2.01	0.51
11:I2:954:GLU:CG	16:N3:402:GLY:C	2.80	0.51
11:I2:1037:THR:HG23	20:R3:169:GLY:CA	2.36	0.51
11:I3:1644:ARG:HD3	12:J3:275:PHE:CE1	2.45	0.51
21:S1:546:SER:O	21:S1:550:ASP:CB	2.59	0.51
21:S3:1015:GLU:CD	21:S3:1041:ARG:HH21	2.18	0.51
23:U4:354:SER:O	23:U4:358:VAL:HG23	2.11	0.51
25:W3:138:PRO:HB2	25:W3:140:ILE:HD11	1.93	0.51
26:X1:107:TYR:CZ	26:X1:111:LEU:HD11	2.46	0.51
27:Y1:10:ASP:HB3	27:Y1:29:SER:HB2	1.92	0.51
27:Y1:117:ALA:HB3	27:Y1:124:LYS:HB3	1.92	0.51
28:Z1:401:THR:HA	30:b1:252:ALA:CA	2.40	0.51
28:Z1:438:GLU:CG	30:b1:314:PRO:HG2	2.41	0.51
28:Z1:526:ARG:CB	30:b1:206:ASN:CB	2.66	0.51
28:Z1:531:LYS:HB3	28:Z1:553:ILE:HG12	1.93	0.51
28:Z2:91:LYS:NZ	28:Z2:142:ALA:O	2.30	0.51
28:Z2:407:GLY:C	30:b2:251:ILE:CG1	2.84	0.51
28:Z4:539:GLU:HA	30:b4:163:ASP:OD2	2.11	0.51
30:b2:83:GLU:HA	30:b2:96:PRO:HA	1.92	0.51
1:A1:1224:PRO:HG2	2:A2:728:LYS:HA	1.93	0.50
1:A1:1393:THR:HG1	2:A2:851:ASP:CG	2.16	0.50
2:A2:227:SER:HB2	6:D1:711:PHE:CG	2.40	0.50
2:A2:867:GLU:CB	6:D1:609:ILE:HG13	2.41	0.50
2:A2:1131:ILE:N	3:A5:165:PHE:HE2	2.09	0.50
2:A2:1149:THR:CA	3:A5:172:PRO:HG2	2.42	0.50
1:A3:1201:ARG:HA	2:A4:734:LEU:HB2	1.93	0.50
2:A4:860:GLU:HG3	6:D3:606:LYS:HB3	1.90	0.50
2:A4:866:SER:O	6:D3:598:ILE:CB	2.58	0.50
2:A4:875:LEU:C	6:D3:564:ASN:CB	2.64	0.50
2:A4:879:LEU:CB	6:D3:564:ASN:ND2	2.74	0.50
2:A4:1135:ARG:HB3	3:A6:159:SER:O	2.08	0.50
2:A4:1157:TYR:HB2	3:A6:133:LYS:CE	2.37	0.50
3:A5:1392:ARG:NH1	28:Z2:867:LYS:CA	2.75	0.50
3:A6:163:SER:HB3	5:C4:743:LEU:HD23	1.94	0.50
3:A6:1310:ARG:HA	28:Z4:826:TYR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1375:THR:N	28:Z4:817:VAL:CB	2.74	0.50
6:D1:371:LEU:HD12	6:D1:372:ARG:N	2.26	0.50
6:D4:606:LYS:N	6:D4:607:PRO:CD	2.74	0.50
6:D7:606:LYS:N	6:D7:607:PRO:CD	2.74	0.50
8:F1:795:GLU:OE1	8:F1:795:GLU:N	2.42	0.50
9:G1:255:LEU:HA	17:O2:257:ALA:CB	2.40	0.50
11:I1:833:PHE:CE2	17:O1:238:ALA:CB	2.89	0.50
11:I1:956:ILE:C	20:R1:166:LEU:CD2	2.71	0.50
11:I1:957:SER:C	20:R1:168:LEU:CD2	2.79	0.50
11:I1:992:ILE:HG21	15:M1:607:SER:HB2	1.83	0.50
11:I1:1021:ILE:CA	16:N1:406:HIS:HA	2.31	0.50
11:I1:1739:GLU:O	11:I2:1604:ALA:N	2.09	0.50
11:I2:898:VAL:HG23	17:O3:236:ASP:C	2.26	0.50
11:I2:921:GLU:O	15:M3:596:ILE:HD12	1.46	0.50
11:I2:922:ASP:N	15:M3:592:LEU:CB	2.74	0.50
11:I2:1106:LYS:C	16:N3:439:ARG:HG3	2.36	0.50
17:O3:148:ARG:NH1	18:P3:325:ILE:O	2.43	0.50
17:O4:112:GLY:O	18:P4:325:ILE:CD1	2.56	0.50
21:S1:1045:GLU:HG2	21:S1:1099:SER:OG	2.10	0.50
21:S2:1045:GLU:HG2	21:S2:1099:SER:OG	2.10	0.50
21:S3:546:SER:O	21:S3:550:ASP:CB	2.59	0.50
22:T1:862:HIS:NE2	22:T1:903:LYS:HB3	2.26	0.50
22:T2:738:ALA:HA	22:T2:833:ARG:HG2	1.92	0.50
22:T3:773:LYS:HG3	22:T3:774:PRO:HD2	1.92	0.50
22:T4:773:LYS:HG3	22:T4:774:PRO:HD2	1.92	0.50
23:U4:50:ALA:HB1	23:U4:69:GLU:HG3	1.93	0.50
24:V1:374:LYS:O	24:V1:377:GLU:HB2	2.12	0.50
24:V3:281:ILE:HB	24:V3:301:LEU:HD21	1.93	0.50
24:V3:374:LYS:O	24:V3:377:GLU:HB2	2.12	0.50
25:W4:214:PRO:HG2	25:W4:264:LEU:HA	1.93	0.50
26:X2:156:GLU:HG2	26:X2:179:LEU:CD2	2.41	0.50
26:X2:218:GLU:HA	26:X2:220:ASP:N	2.27	0.50
26:X3:218:GLU:HA	26:X3:220:ASP:N	2.26	0.50
28:Z3:535:ILE:HD11	30:b3:182:PRO:CG	2.41	0.50
30:b3:114:ILE:HG23	30:b3:121:ILE:HG23	1.93	0.50
30:b4:212:PHE:HE1	30:b4:233:TRP:CE3	2.29	0.50
1:A1:1018:ASP:OD2	6:D1:819:ASN:CB	2.60	0.50
1:A1:1242:THR:HG21	1:A1:1248:ILE:HD11	1.93	0.50
2:A2:235:TYR:HE1	4:B2:347:LEU:CD1	2.21	0.50
2:A4:1139:ILE:HD12	3:A6:138:LEU:N	2.26	0.50
3:A5:1031:TYR:H	11:I5:67:LYS:HB3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1327:VAL:HB	28:Z4:910:GLN:C	2.36	0.50
3:A6:1391:ARG:O	28:Z4:869:HIS:CB	2.60	0.50
6:D3:371:LEU:HD12	6:D3:372:ARG:N	2.26	0.50
6:D3:649:VAL:HG11	6:D3:660:LYS:HA	1.93	0.50
8:F1:1137:GLN:CD	17:O2:249:ARG:CA	2.76	0.50
11:I1:841:PHE:CB	15:M1:588:MET:HE3	2.36	0.50
11:I1:945:LEU:HD23	17:O1:259:ASP:H	0.68	0.50
11:I1:989:GLY:N	15:M1:614:ASP:CG	2.70	0.50
11:I2:401:GLN:N	11:I2:401:GLN:OE1	2.44	0.50
11:I2:899:LEU:HD12	17:O3:233:THR:C	2.34	0.50
11:I2:922:ASP:CB	15:M3:592:LEU:HB3	2.41	0.50
11:I2:926:SER:HA	20:R3:155:GLU:HG2	1.93	0.50
11:I2:947:LEU:CG	16:N3:407:ALA:C	2.65	0.50
11:I2:1018:LYS:HE3	16:N3:413:VAL:C	2.32	0.50
11:I2:1109:LEU:HD22	17:O3:290:TYR:CE2	2.46	0.50
11:I4:1274:HIS:HE1	26:X3:529:TRP:O	1.95	0.50
17:O3:102:LYS:HG2	18:P3:322:LYS:CE	2.08	0.50
21:S1:682:ASN:CA	21:S1:684:THR:HA	2.41	0.50
21:S1:934:HIS:C	21:S1:936:SER:H	2.18	0.50
21:S1:1070:LYS:O	21:S1:1074:LEU:HD12	2.11	0.50
22:T2:770:VAL:HB	22:T2:802:TRP:CZ2	2.45	0.50
23:U3:354:SER:O	23:U3:358:VAL:HG23	2.11	0.50
24:V4:526:HIS:C	24:V4:530:ARG:HD2	2.37	0.50
25:W4:117:LEU:HB2	25:W4:153:TRP:HE1	1.75	0.50
26:X2:107:TYR:CZ	26:X2:111:LEU:HD11	2.46	0.50
27:Y4:117:ALA:HB3	27:Y4:124:LYS:HB3	1.93	0.50
28:Z1:258:ASP:OD1	28:Z1:260:VAL:HG22	2.11	0.50
28:Z1:534:ASP:N	30:b1:164:CYS:HB2	2.23	0.50
28:Z2:400:LYS:HB3	30:b2:205:ARG:NH2	2.25	0.50
28:Z2:466:TYR:HB3	28:Z2:470:ILE:HB	1.92	0.50
28:Z3:401:THR:HA	30:b3:252:ALA:CA	2.40	0.50
30:b1:133:HIS:CD2	30:b1:167:ILE:HD12	2.46	0.50
30:b2:192:PHE:HE1	30:b2:200:LEU:HD22	1.76	0.50
1:A1:875:LEU:CD1	6:D3:277:ASN:HB2	2.40	0.50
2:A2:781:ARG:C	6:D1:677:GLN:N	2.68	0.50
1:A3:1098:ARG:NE	11:I2:1414:CYS:HB2	2.25	0.50
1:A3:1277:TRP:N	1:A3:1278:PRO:CD	2.75	0.50
1:A3:1333:ARG:O	6:D3:637:LYS:NZ	2.33	0.50
1:A3:1399:ARG:CD	2:A4:884:ARG:O	2.58	0.50
3:A5:164:LEU:CA	5:C2:744:PHE:CD1	2.94	0.50
3:A6:1334:GLY:C	28:Z4:961:PHE:CB	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:646:LEU:HD22	6:D5:696:ILE:CD1	2.42	0.50
11:I1:911:PRO:C	15:M1:584:GLN:HE22	2.15	0.50
11:I1:950:LEU:HD23	15:M1:606:LEU:HD23	1.92	0.50
11:I1:956:ILE:C	20:R1:166:LEU:HD22	2.15	0.50
11:I1:980:ILE:CG1	15:M1:622:VAL:N	2.74	0.50
11:I1:1113:LEU:HB2	16:N1:435:ALA:CA	2.37	0.50
11:I2:1030:ARG:HB3	20:R3:172:ASP:C	2.36	0.50
11:I4:1275:SER:HB2	26:X3:525:ILE:CB	2.28	0.50
11:I4:1280:PRO:HD2	26:X3:520:GLU:HG2	1.94	0.50
21:S1:1036:ILE:CD1	21:S1:1073:ILE:HA	2.41	0.50
21:S2:546:SER:O	21:S2:550:ASP:CB	2.59	0.50
21:S3:939:HIS:O	21:S3:939:HIS:CG	2.64	0.50
21:S3:1030:GLN:O	21:S3:1034:LEU:HB2	2.11	0.50
21:S3:1036:ILE:CD1	21:S3:1073:ILE:HA	2.41	0.50
22:T4:685:ARG:HH21	22:T4:716:PRO:HG2	1.75	0.50
24:V3:435:LEU:O	24:V3:439:VAL:HG23	2.11	0.50
25:W1:138:PRO:HB2	25:W1:140:ILE:HD11	1.93	0.50
25:W3:62:ALA:HB2	25:W3:107:TRP:CE2	2.46	0.50
26:X3:152:LEU:O	26:X3:156:GLU:HG3	2.11	0.50
26:X4:306:TRP:O	26:X4:310:VAL:HG23	2.12	0.50
28:Z2:526:ARG:HA	30:b2:206:ASN:ND2	2.23	0.50
28:Z3:539:GLU:HA	30:b3:163:ASP:OD2	2.11	0.50
28:Z4:58:ASN:HB3	28:Z4:70:TYR:CZ	2.46	0.50
28:Z4:190:ASP:OD2	28:Z4:191:GLY:N	2.44	0.50
30:b1:384:ARG:HE	30:b1:389:THR:CG2	2.24	0.50
30:b3:258:VAL:HG13	30:b3:270:ALA:HB2	1.93	0.50
1:A1:1221:ILE:HD11	2:A2:618:ALA:HB1	1.93	0.50
2:A2:825:ARG:NH1	2:A2:826:ASN:OD1	2.42	0.50
2:A2:965:LYS:O	6:D1:196:ILE:HG23	2.11	0.50
2:A2:978:ASP:C	6:D1:476:VAL:HB	2.31	0.50
1:A3:1200:ARG:HB3	2:A4:727:ASN:O	2.12	0.50
2:A4:974:PRO:CG	6:D3:495:VAL:C	2.54	0.50
2:A4:1344:ALA:O	2:A4:1345:SER:CB	2.59	0.50
3:A5:164:LEU:C	5:C2:743:LEU:O	2.51	0.50
3:A5:1026:PRO:HA	11:I5:68:ILE:CA	1.90	0.50
3:A5:1414:PHE:N	28:Z2:961:PHE:CB	2.73	0.50
3:A5:1415:PHE:HB2	28:Z2:960:CYS:N	2.26	0.50
3:A6:1151:THR:CB	5:C6:733:LEU:HD12	2.41	0.50
3:A6:1370:ALA:HB2	28:Z4:864:PHE:CB	2.41	0.50
6:D5:649:VAL:HG11	6:D5:660:LYS:HA	1.92	0.50
6:D6:639:LEU:HD22	6:D6:689:PHE:CG	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1000:LEU:HD12	8:F2:1001:ILE:HG23	1.93	0.50
11:I1:890:TYR:CD1	17:O1:238:ALA:N	2.74	0.50
11:I1:924:ILE:O	15:M1:597:LYS:HG3	2.11	0.50
11:I1:948:ALA:N	17:O1:256:TYR:HB3	2.26	0.50
11:I1:980:ILE:CA	15:M1:618:GLN:HA	2.40	0.50
11:I1:1021:ILE:HG12	16:N1:410:MET:CE	2.21	0.50
11:I1:1071:LEU:H	16:N1:429:GLU:CB	2.24	0.50
11:I2:874:LEU:O	17:O3:251:ILE:C	2.53	0.50
11:I2:887:GLN:CB	16:N3:393:ILE:HG12	2.25	0.50
11:I2:983:LEU:O	15:M3:614:ASP:OD2	2.29	0.50
11:I4:401:GLN:N	11:I4:401:GLN:OE1	2.44	0.50
21:S1:1030:GLN:O	21:S1:1034:LEU:HB2	2.11	0.50
21:S4:1030:GLN:O	21:S4:1034:LEU:HB2	2.11	0.50
23:U2:354:SER:O	23:U2:358:VAL:HG23	2.11	0.50
24:V1:526:HIS:C	24:V1:530:ARG:HD2	2.37	0.50
24:V2:153:LYS:HA	25:W2:261:SER:CB	2.41	0.50
25:W1:62:ALA:HB2	25:W1:107:TRP:CE2	2.46	0.50
25:W1:214:PRO:HG2	25:W1:264:LEU:HA	1.93	0.50
25:W3:57:TRP:HD1	25:W3:102:VAL:O	1.95	0.50
25:W3:214:PRO:HG2	25:W3:264:LEU:HA	1.93	0.50
26:X2:66:PRO:HA	27:Y2:308:TRP:CD1	2.46	0.50
26:X3:107:TYR:CZ	26:X3:111:LEU:HD11	2.46	0.50
28:Z1:70:TYR:HA	28:Z1:80:THR:O	2.10	0.50
28:Z3:58:ASN:HB3	28:Z3:70:TYR:CZ	2.46	0.50
28:Z3:190:ASP:OD2	28:Z3:191:GLY:N	2.44	0.50
28:Z3:524:VAL:HG11	30:b3:236:THR:HB	1.88	0.50
2:A2:911:TYR:HE2	6:D1:555:ARG:NH2	2.10	0.50
2:A2:980:ARG:CA	6:D1:503:LEU:N	2.64	0.50
2:A2:1131:ILE:HA	3:A5:165:PHE:CD2	2.45	0.50
2:A2:1204:TRP:CZ2	2:A2:1223:GLU:HG3	2.46	0.50
1:A3:1224:PRO:CG	2:A4:727:ASN:O	2.54	0.50
2:A4:965:LYS:HE2	6:D3:196:ILE:C	2.30	0.50
2:A4:1158:ALA:N	3:A6:133:LYS:HE2	2.27	0.50
3:A5:1032:LEU:HB2	11:I5:69:GLY:O	2.12	0.50
3:A5:1395:LYS:HE3	28:Z2:871:HIS:N	2.26	0.50
3:A6:1316:VAL:HG13	28:Z4:871:HIS:HA	1.89	0.50
5:C1:732:LYS:CE	11:I1:1228:GLU:CD	2.73	0.50
6:D1:646:LEU:HD22	6:D1:696:ILE:CD1	2.42	0.50
6:D2:639:LEU:HD22	6:D2:689:PHE:CG	2.47	0.50
6:D3:743:HIS:HD2	11:I2:1528:ARG:CD	2.11	0.50
6:D4:649:VAL:HG11	6:D4:660:LYS:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:639:LEU:HD22	6:D5:689:PHE:CG	2.47	0.50
6:D6:606:LYS:N	6:D6:607:PRO:CD	2.74	0.50
8:F1:1093:LEU:HD13	17:O2:244:GLU:OE2	2.11	0.50
11:I1:880:MET:HG3	17:O1:247:TRP:CA	2.10	0.50
11:I1:937:TYR:HB2	15:M1:602:MET:HE1	1.93	0.50
11:I1:967:SER:OG	15:M1:628:ALA:HB3	2.11	0.50
11:I1:1033:PRO:HA	20:R1:173:LEU:O	2.11	0.50
11:I1:1042:LEU:N	20:R1:170:LEU:HD11	2.26	0.50
11:I2:841:PHE:CE1	17:O3:243:LEU:HD22	2.45	0.50
11:I2:925:LEU:HD21	20:R3:163:LEU:CB	2.42	0.50
11:I2:949:CYS:CB	15:M3:606:LEU:HD22	2.35	0.50
11:I2:976:ARG:CB	20:R3:149:ARG:N	2.34	0.50
11:I2:981:VAL:CB	20:R3:147:LEU:HG	2.38	0.50
11:I2:1045:PHE:CA	17:O3:280:GLU:HA	2.40	0.50
11:I2:1051:LYS:HB2	17:O3:288:GLU:CA	2.35	0.50
11:I5:1034:ASP:OD1	11:I5:1035:GLN:N	2.44	0.50
11:I5:1273:GLU:O	26:X2:521:TRP:CA	2.42	0.50
17:O3:151:LEU:HD23	18:P3:325:ILE:HD11	1.91	0.50
21:S3:950:HIS:CE1	21:S3:995:MET:HE1	2.45	0.50
24:V2:374:LYS:O	24:V2:377:GLU:HB2	2.12	0.50
24:V4:186:PHE:CD1	24:V4:487:LEU:HD11	2.46	0.50
24:V4:397:GLU:OE1	24:V4:397:GLU:N	2.40	0.50
26:X1:66:PRO:HA	27:Y1:308:TRP:CD1	2.46	0.50
26:X3:66:PRO:HA	27:Y3:308:TRP:CD1	2.46	0.50
27:Y3:117:ALA:HB3	27:Y3:124:LYS:HB3	1.93	0.50
28:Z1:555:LYS:HD2	30:b1:212:PHE:CE1	2.46	0.50
28:Z3:531:LYS:HB3	28:Z3:553:ILE:HG12	1.93	0.50
28:Z3:591:MET:HE1	28:Z3:630:THR:OG1	2.12	0.50
30:b3:192:PHE:HE1	30:b3:200:LEU:HD22	1.76	0.50
30:b3:283:PHE:HB2	30:b3:299:GLY:N	2.27	0.50
30:b4:258:VAL:HG13	30:b4:270:ALA:HB2	1.93	0.50
1:A1:1083:SER:OG	6:D1:798:MET:SD	2.65	0.50
1:A1:1332:ARG:HG3	6:D1:636:ASP:HB3	0.50	0.50
2:A2:868:GLN:H	6:D1:598:ILE:HG21	1.70	0.50
2:A2:911:TYR:OH	6:D1:196:ILE:HG22	2.08	0.50
2:A2:978:ASP:O	6:D1:476:VAL:HB	2.12	0.50
2:A2:1136:LYS:NZ	3:A5:140:ALA:H	2.10	0.50
2:A2:1305:ALA:HB3	2:A2:1306:PRO:HD2	1.94	0.50
1:A3:1056:PHE:CG	6:D3:808:ASN:CB	2.94	0.50
2:A4:864:ARG:NH1	6:D3:610:ASN:ND2	2.56	0.50
2:A4:871:ASN:O	6:D3:567:LEU:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:876:ARG:CB	6:D3:563:GLU:C	2.81	0.50
2:A4:974:PRO:HG2	6:D3:496:LEU:N	2.26	0.50
2:A4:1161:ALA:HA	3:A6:180:GLU:OE2	2.11	0.50
2:A4:1305:ALA:HB3	2:A4:1306:PRO:HD2	1.94	0.50
3:A5:1414:PHE:O	28:Z2:961:PHE:CB	2.60	0.50
3:A6:233:THR:C	5:C4:737:LYS:HB2	2.37	0.50
3:A6:1406:GLY:H	28:Z4:922:LEU:C	2.19	0.50
5:C1:732:LYS:NZ	11:I1:1225:LYS:HB3	2.13	0.50
6:D2:649:VAL:HG11	6:D2:660:LYS:HA	1.92	0.50
6:D3:646:LEU:HD22	6:D3:696:ILE:CD1	2.42	0.50
11:I1:875:ARG:O	17:O1:248:SER:HB2	2.12	0.50
11:I1:898:VAL:CG2	17:O1:235:ASN:O	2.58	0.50
11:I1:930:LEU:CD2	15:M1:595:MET:O	2.60	0.50
11:I1:945:LEU:CG	17:O1:257:ALA:N	2.66	0.50
11:I1:961:ARG:N	16:N1:395:GLU:OE1	2.44	0.50
11:I2:1037:THR:CB	15:M3:620:VAL:HG13	2.36	0.50
11:I3:1278:ALA:CB	26:X1:520:GLU:H	2.17	0.50
11:I4:1272:TYR:N	26:X3:528:GLU:HB2	2.27	0.50
11:I4:1274:HIS:NE2	26:X3:530:ARG:C	2.68	0.50
21:S1:1126:LEU:O	21:S1:1129:ASP:HB2	2.12	0.50
21:S2:939:HIS:O	21:S2:939:HIS:CG	2.64	0.50
21:S3:682:ASN:CA	21:S3:684:THR:HA	2.41	0.50
21:S4:950:HIS:CE1	21:S4:995:MET:HE1	2.45	0.50
23:U1:354:SER:O	23:U1:358:VAL:HG23	2.11	0.50
23:U4:254:ALA:O	24:V4:315:LYS:NZ	2.40	0.50
24:V1:435:LEU:O	24:V1:439:VAL:HG23	2.11	0.50
24:V3:186:PHE:CD1	24:V3:487:LEU:HD11	2.46	0.50
24:V4:281:ILE:HB	24:V4:301:LEU:HD21	1.93	0.50
24:V4:435:LEU:O	24:V4:439:VAL:HG23	2.11	0.50
26:X1:306:TRP:O	26:X1:310:VAL:HG23	2.12	0.50
27:Y1:218:ILE:HG22	27:Y1:233:THR:HG22	1.94	0.50
28:Z2:535:ILE:CD1	30:b2:182:PRO:CG	2.88	0.50
28:Z3:258:ASP:OD1	28:Z3:260:VAL:HG22	2.11	0.50
28:Z4:555:LYS:HD2	30:b4:212:PHE:CE1	2.46	0.50
28:Z4:557:CYS:CA	30:b4:210:ARG:CA	2.60	0.50
29:a1:231[A]:HIS:CD2	29:a1:231[A]:HIS:H	2.28	0.50
1:A1:1056:PHE:HZ	6:D1:809:ALA:N	2.09	0.50
2:A2:980:ARG:NE	6:D1:526:LEU:H	2.09	0.50
2:A2:980:ARG:N	6:D1:473:GLU:CD	2.69	0.50
2:A2:985:ALA:HB1	6:D1:500:LYS:HA	1.94	0.50
2:A2:988:ARG:HB3	6:D1:500:LYS:HZ3	0.67	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:CB	3:A5:166:LEU:O	2.60	0.50
2:A2:1185:THR:CG2	4:B5:342:ARG:CZ	2.90	0.50
1:A3:785:ILE:HD11	1:A3:825:ARG:CG	2.38	0.50
1:A3:1099:GLN:CA	11:I2:1414:CYS:O	2.58	0.50
2:A4:873:PRO:HD2	6:D3:569:CYS:HA	1.93	0.50
6:D1:606:LYS:N	6:D1:607:PRO:CD	2.74	0.50
6:D3:639:LEU:HD22	6:D3:689:PHE:CG	2.47	0.50
8:F1:689:ARG:O	8:F1:699:ARG:N	2.40	0.50
9:G1:267:GLY:N	16:N2:414:ALA:C	2.70	0.50
11:I1:877:ILE:HG21	17:O1:254:ARG:N	2.19	0.50
11:I1:917:TYR:HB3	15:M1:588:MET:HG2	1.93	0.50
11:I1:922:ASP:CG	15:M1:589:GLY:CA	2.85	0.50
11:I1:928:LEU:HG	20:R1:155:GLU:CG	2.39	0.50
11:I1:965:ALA:CB	20:R1:164:PRO:C	2.81	0.50
11:I1:1018:LYS:N	16:N1:412:ASN:N	2.59	0.50
11:I2:874:LEU:HG	17:O3:255:GLY:C	2.37	0.50
11:I2:879:VAL:H	17:O3:251:ILE:HB	1.76	0.50
11:I2:976:ARG:NH2	20:R3:143:PHE:CA	2.70	0.50
11:I2:1016:ARG:O	16:N3:408:MET:O	2.30	0.50
11:I2:1113:LEU:CD2	17:O3:282:LYS:HZ1	2.24	0.50
11:I3:715:GLY:HA2	29:a2:40[B]:GLU:OE1	2.11	0.50
21:S2:1126:LEU:O	21:S2:1129:ASP:HB2	2.12	0.50
21:S3:1070:LYS:O	21:S3:1074:LEU:HD12	2.11	0.50
21:S4:546:SER:O	21:S4:550:ASP:CB	2.59	0.50
23:U2:233:THR:HG22	23:U2:234:GLN:O	2.12	0.50
24:V2:281:ILE:HB	24:V2:301:LEU:HD21	1.93	0.50
26:X1:218:GLU:HA	26:X1:220:ASP:N	2.26	0.50
26:X1:228:PHE:HE2	26:X1:267:ARG:HB3	1.77	0.50
26:X3:306:TRP:O	26:X3:310:VAL:HG23	2.12	0.50
26:X4:152:LEU:O	26:X4:156:GLU:HG3	2.11	0.50
27:Y3:218:ILE:HG22	27:Y3:233:THR:HG22	1.94	0.50
28:Z1:53:GLY:HA2	28:Z1:73:SER:HA	1.94	0.50
28:Z2:53:GLY:HA2	28:Z2:73:SER:HA	1.94	0.50
28:Z2:190:ASP:OD2	28:Z2:191:GLY:N	2.44	0.50
28:Z2:561:GLN:CD	30:b2:235:LEU:CD2	2.84	0.50
28:Z2:772:GLN:CB	30:b2:136:PHE:CE1	2.95	0.50
29:a1:6:ALA:HB2	29:a1:373:TYR:CE2	2.47	0.50
29:a2:231[A]:HIS:H	29:a2:231[A]:HIS:CD2	2.28	0.50
30:b3:55:GLY:H	30:b3:384:ARG:NH1	2.09	0.50
30:b4:51:PRO:C	30:b4:53:SER:H	2.18	0.50
30:b4:55:GLY:H	30:b4:384:ARG:NH1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:862:LEU:CD1	1:A1:904:GLN:HB3	2.41	0.50
2:A2:780:GLU:HG3	6:D1:678:GLY:C	2.28	0.50
2:A2:781:ARG:HG3	6:D1:673:ARG:C	2.37	0.50
2:A4:200:VAL:HG23	4:B4:351:GLU:O	2.11	0.50
2:A4:780:GLU:H	6:D3:678:GLY:N	1.96	0.50
2:A4:973:GLU:HG3	6:D3:192:TYR:CE2	2.46	0.50
2:A4:1135:ARG:CB	3:A6:138:LEU:HD23	2.35	0.50
3:A5:1005:PHE:CZ	11:I5:67:LYS:CE	2.89	0.50
3:A5:1363:ASP:H	28:Z2:875:LEU:CA	2.19	0.50
3:A5:1363:ASP:HB2	28:Z2:875:LEU:N	2.24	0.50
3:A5:1395:LYS:CB	28:Z2:870:ILE:C	2.85	0.50
3:A6:1354:TRP:O	28:Z4:876:LEU:C	2.55	0.50
6:D3:610:ASN:O	6:D3:614:SER:N	2.43	0.50
6:D6:646:LEU:HD22	6:D6:696:ILE:CD1	2.42	0.50
8:F1:1392:LEU:N	8:F1:1393:PRO:HD2	2.27	0.50
11:I1:874:LEU:CA	17:O1:251:ILE:O	2.60	0.50
11:I1:884:LEU:CD1	16:N1:396:ILE:HG21	2.00	0.50
11:I1:946:THR:HG22	17:O1:260:LEU:C	2.31	0.50
11:I1:1017:VAL:HG22	17:O1:260:LEU:HD22	1.94	0.50
11:I1:1041:GLN:N	15:M1:620:VAL:HG22	2.14	0.50
11:I1:1052:LEU:H	17:O1:286:ILE:CB	2.24	0.50
11:I2:301:GLN:N	11:I2:301:GLN:OE1	2.42	0.50
11:I2:1060:PHE:CD2	17:O3:277:GLU:HG2	2.36	0.50
11:I2:1607:GLN:HB3	12:J1:298:PHE:CE1	2.46	0.50
11:I4:1274:HIS:NE2	26:X3:531:LEU:CG	2.65	0.50
12:J5:240:GLY:O	12:J5:241:THR:OG1	2.28	0.50
22:T3:862:HIS:NE2	22:T3:903:LYS:HB3	2.26	0.50
25:W2:214:PRO:HG2	25:W2:264:LEU:HA	1.93	0.50
26:X1:158:PHE:O	26:X1:162:VAL:HG23	2.12	0.50
26:X3:156:GLU:HG2	26:X3:179:LEU:CD2	2.41	0.50
26:X4:156:GLU:HG2	26:X4:179:LEU:CD2	2.41	0.50
28:Z1:521:SER:HG	30:b1:238:ASN:N	2.02	0.50
28:Z1:526:ARG:O	30:b1:184:SER:OG	2.30	0.50
28:Z1:772:GLN:CB	30:b1:136:PHE:CE1	2.95	0.50
28:Z2:555:LYS:HD2	30:b2:212:PHE:CE1	2.46	0.50
28:Z4:258:ASP:OD1	28:Z4:260:VAL:HG22	2.11	0.50
28:Z4:394:ASP:OD2	30:b4:241:PRO:O	2.30	0.50
28:Z4:591:MET:HE1	28:Z4:630:THR:OG1	2.12	0.50
29:a4:6:ALA:HB2	29:a4:373:TYR:CE2	2.47	0.50
1:A1:870:HIS:CA	6:D3:280:GLN:N	2.74	0.50
2:A2:869:ALA:HB2	6:D1:583:ILE:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:973:GLU:OE1	6:D1:192:TYR:CD2	2.65	0.50
2:A4:1154:PHE:HD2	3:A6:175:GLU:OE1	1.94	0.50
2:A4:1160:GLN:HG3	3:A6:165:PHE:CA	2.40	0.50
3:A5:177:ILE:CD1	5:C2:740:ARG:HE	2.16	0.50
3:A5:188:ALA:HA	5:C2:746:PRO:HG3	1.78	0.50
3:A5:999:SER:OG	11:I5:63:PRO:CG	2.58	0.50
3:A5:1399:ARG:HH12	28:Z2:909:LEU:CA	2.06	0.50
3:A6:232:LEU:HD22	5:C4:740:ARG:N	2.26	0.50
3:A6:1387:ILE:HA	28:Z4:867:LYS:CB	2.42	0.50
9:G1:269:GLU:OE1	16:N2:412:ASN:C	2.54	0.50
9:G2:257:THR:HG23	17:O4:257:ALA:H	1.77	0.50
11:I1:885:GLU:CA	16:N1:397:GLU:HG2	1.99	0.50
11:I1:935:GLY:O	15:M1:606:LEU:C	2.41	0.50
17:O3:142:PHE:HA	17:O3:145:ILE:HG22	1.94	0.50
17:O3:162:LYS:HG3	18:P3:315:GLU:CB	2.38	0.50
21:S1:939:HIS:O	21:S1:939:HIS:CG	2.64	0.50
23:U1:50:ALA:HB1	23:U1:69:GLU:HG3	1.93	0.50
25:W1:57:TRP:HD1	25:W1:102:VAL:O	1.94	0.50
25:W4:62:ALA:HB2	25:W4:107:TRP:CE2	2.46	0.50
26:X4:107:TYR:CZ	26:X4:111:LEU:HD11	2.46	0.50
28:Z1:407:GLY:CA	30:b1:251:ILE:CG1	2.89	0.50
28:Z1:535:ILE:HD11	30:b1:182:PRO:CG	2.41	0.50
28:Z2:526:ARG:O	30:b2:184:SER:OG	2.30	0.50
28:Z3:288:VAL:HG13	28:Z3:336:LEU:HD22	1.94	0.50
28:Z3:466:TYR:HB3	28:Z3:470:ILE:HB	1.92	0.50
28:Z3:561:GLN:CD	30:b3:235:LEU:CD2	2.84	0.50
28:Z4:407:GLY:CA	30:b4:251:ILE:CG1	2.89	0.50
28:Z4:531:LYS:HB3	28:Z4:553:ILE:HG12	1.93	0.50
28:Z4:772:GLN:CB	30:b4:136:PHE:CE1	2.95	0.50
30:b1:114:ILE:HG23	30:b1:121:ILE:HG23	1.92	0.50
30:b2:337:GLY:HA3	30:b2:358:MET:O	2.11	0.50
30:b4:192:PHE:HE1	30:b4:200:LEU:HD22	1.77	0.50
30:b4:337:GLY:HA3	30:b4:358:MET:O	2.11	0.50
1:A1:1399:ARG:CB	2:A2:888:GLN:OE1	2.60	0.49
2:A2:780:GLU:HB3	6:D1:677:GLN:HB3	1.91	0.49
2:A2:984:ALA:C	6:D1:498:GLU:HA	2.37	0.49
2:A4:871:ASN:HB2	6:D3:571:SER:N	2.28	0.49
2:A4:973:GLU:HB2	6:D3:498:GLU:CB	2.42	0.49
2:A4:1134:GLU:C	3:A6:146:LYS:N	2.70	0.49
2:A4:1204:TRP:CZ2	2:A4:1223:GLU:HG3	2.46	0.49
3:A5:155:TYR:CZ	5:C2:740:ARG:HG2	2.17	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:232:LEU:HD13	5:C2:741:THR:N	2.27	0.49
3:A5:1406:GLY:C	28:Z2:917:ASP:O	2.55	0.49
6:D4:639:LEU:HD22	6:D4:689:PHE:CG	2.47	0.49
6:D5:727:VAL:O	6:D5:731:VAL:HG23	2.12	0.49
6:D7:646:LEU:HD22	6:D7:696:ILE:CD1	2.42	0.49
8:F1:731:ASP:OD1	8:F1:732:VAL:N	2.45	0.49
8:F2:1392:LEU:N	8:F2:1393:PRO:HD2	2.27	0.49
11:I1:917:TYR:O	15:M1:588:MET:CB	2.59	0.49
11:I1:990:GLU:CG	17:O1:275:LEU:HB3	2.34	0.49
11:I1:1041:GLN:CA	15:M1:620:VAL:CG2	2.71	0.49
11:I2:924:ILE:HD13	15:M3:595:MET:CB	2.12	0.49
11:I2:983:LEU:HB3	15:M3:614:ASP:OD2	2.11	0.49
11:I5:301:GLN:N	11:I5:301:GLN:OE1	2.42	0.49
17:O4:142:PHE:HA	17:O4:145:ILE:HG22	1.94	0.49
21:S3:946:LEU:HB3	21:S3:981:SER:HB3	1.93	0.49
21:S4:1126:LEU:O	21:S4:1129:ASP:HB2	2.12	0.49
22:T3:885:ARG:CG	22:T3:885:ARG:NH1	2.73	0.49
23:U4:233:THR:HG22	23:U4:234:GLN:O	2.12	0.49
24:V2:435:LEU:O	24:V2:439:VAL:HG23	2.11	0.49
24:V2:526:HIS:C	24:V2:528:LEU:N	2.68	0.49
24:V3:523:THR:HA	24:V3:526:HIS:HB2	1.94	0.49
25:W1:259:ARG:HB2	25:W1:272:SER:HB2	1.93	0.49
25:W2:57:TRP:HD1	25:W2:102:VAL:O	1.95	0.49
26:X1:156:GLU:HG2	26:X1:179:LEU:CD2	2.41	0.49
26:X4:66:PRO:HA	27:Y4:308:TRP:CD1	2.46	0.49
27:Y2:218:ILE:HG22	27:Y2:233:THR:HG22	1.94	0.49
28:Z1:532:PHE:H	30:b1:184:SER:CA	2.25	0.49
28:Z4:53:GLY:HA2	28:Z4:73:SER:HA	1.94	0.49
28:Z4:522:ASN:O	28:Z4:526:ARG:HG3	2.12	0.49
28:Z4:522:ASN:HB2	30:b4:240:LEU:HB3	1.91	0.49
29:a4:231[A]:HIS:CD2	29:a4:231[A]:HIS:H	2.28	0.49
30:b1:192:PHE:HE1	30:b1:200:LEU:HD22	1.77	0.49
30:b3:53:SER:OG	30:b3:54:THR:N	2.29	0.49
1:A1:873:PRO:HG3	6:D3:218:LYS:HZ2	1.75	0.49
1:A1:1332:ARG:NH2	6:D1:681:ALA:CB	2.75	0.49
1:A3:1242:THR:HG21	1:A3:1248:ILE:HD11	1.93	0.49
2:A4:870:HIS:HB3	6:D3:551:PHE:CD2	2.47	0.49
2:A4:880:ALA:CB	6:D3:558:LYS:CD	2.88	0.49
2:A4:983:LEU:HD13	6:D3:497:PHE:CZ	2.47	0.49
6:D1:649:VAL:HG11	6:D1:660:LYS:HA	1.92	0.49
6:D2:646:LEU:HD22	6:D2:696:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:727:VAL:O	6:D6:731:VAL:HG23	2.12	0.49
6:D7:727:VAL:O	6:D7:731:VAL:HG23	2.12	0.49
8:F1:1137:GLN:CG	17:O2:248:SER:C	2.30	0.49
8:F1:1262:HIS:ND1	17:O2:259:ASP:CB	2.50	0.49
11:I1:917:TYR:CB	15:M1:588:MET:HG2	2.42	0.49
11:I1:1038:ILE:CB	20:R1:168:LEU:O	2.48	0.49
11:I2:849:LEU:HD22	17:O3:251:ILE:HD11	1.94	0.49
11:I2:931:VAL:N	15:M3:601:ASP:OD1	2.41	0.49
11:I2:945:LEU:HB3	17:O3:260:LEU:H	1.72	0.49
11:I2:948:ALA:HB2	17:O3:256:TYR:HB3	0.50	0.49
11:I2:965:ALA:CB	20:R3:153:GLN:O	2.51	0.49
11:I2:1020:ALA:HB2	16:N3:408:MET:C	2.35	0.49
11:I2:1106:LYS:CA	16:N3:439:ARG:HH12	1.88	0.49
11:I5:389:GLN:N	11:I5:389:GLN:OE1	2.46	0.49
21:S2:882:GLN:C	21:S2:884:ARG:N	2.69	0.49
21:S3:1052:LEU:HA	21:S3:1055:LEU:CD2	2.42	0.49
22:T3:685:ARG:HH21	22:T3:716:PRO:HG2	1.76	0.49
22:T3:885:ARG:HG3	22:T3:885:ARG:NH1	2.17	0.49
23:U3:50:ALA:HB1	23:U3:69:GLU:HG3	1.93	0.49
26:X2:306:TRP:O	26:X2:310:VAL:HG23	2.12	0.49
26:X3:158:PHE:O	26:X3:162:VAL:HG23	2.12	0.49
26:X3:228:PHE:HE2	26:X3:267:ARG:HB3	1.77	0.49
28:Z1:522:ASN:O	28:Z1:526:ARG:HG3	2.12	0.49
28:Z2:447:GLU:HG3	30:b2:248:SER:HB3	1.94	0.49
28:Z3:639:LEU:HD23	30:b3:232:PRO:CG	2.42	0.49
28:Z4:524:VAL:HG13	30:b4:236:THR:C	2.30	0.49
30:b1:283:PHE:HB2	30:b1:299:GLY:N	2.27	0.49
2:A2:1151:THR:C	5:C2:733:LEU:HD12	2.33	0.49
2:A2:1152:ASP:HB2	3:A5:173:ASN:H	0.51	0.49
1:A3:1399:ARG:CB	2:A4:884:ARG:NE	2.74	0.49
2:A4:864:ARG:HG2	6:D3:609:ILE:HB	1.93	0.49
2:A4:869:ALA:N	6:D3:570:VAL:CG2	2.70	0.49
2:A4:1129:PRO:O	3:A6:161[A]:ASP:OD2	2.30	0.49
3:A5:1411:ARG:NH2	26:X2:744:MET:C	2.69	0.49
3:A6:150:PHE:CE2	5:C4:741:THR:HG22	2.46	0.49
3:A6:165:PHE:N	5:C4:743:LEU:HD13	2.28	0.49
3:A6:233:THR:HA	5:C4:737:LYS:H	1.70	0.49
3:A6:1411:ARG:CG	28:Z4:968:ARG:CB	2.91	0.49
6:D3:727:VAL:O	6:D3:731:VAL:HG23	2.12	0.49
6:D4:646:LEU:HD22	6:D4:696:ILE:CD1	2.42	0.49
6:D5:808:ASN:O	6:D5:812:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:256:GLN:CG	17:O4:262:ASP:HB2	2.36	0.49
11:I1:841:PHE:O	15:M1:588:MET:CA	2.58	0.49
11:I1:914:ASN:HB3	15:M1:586:ASP:N	2.17	0.49
11:I1:951:LYS:H	17:O1:253:LEU:HD22	1.77	0.49
11:I1:978:LYS:CG	20:R1:150:ASN:O	2.52	0.49
11:I1:1047:CYS:C	20:R1:143:PHE:HE1	2.18	0.49
11:I1:1104:LEU:HD22	16:N1:433:GLU:CG	2.28	0.49
11:I1:1673:VAL:HA	11:I2:1611:PHE:C	2.35	0.49
11:I2:873:ILE:HG21	17:O3:258:GLU:CG	2.32	0.49
11:I2:1104:LEU:CD1	16:N3:433:GLU:OE2	2.59	0.49
11:I3:775:ASP:OD2	29:a2:39:ASN:HA	2.12	0.49
11:I4:774:LYS:O	29:a4:40[A]:GLU:OE2	2.29	0.49
11:I4:1277:LEU:HG	26:X3:522:MET:N	2.26	0.49
11:I5:1013:GLU:OE1	11:I5:1013:GLU:N	2.41	0.49
17:O1:142:PHE:HA	17:O1:145:ILE:HG22	1.94	0.49
21:S2:1052:LEU:HA	21:S2:1055:LEU:CD2	2.42	0.49
23:U1:254:ALA:O	24:V1:315:LYS:NZ	2.40	0.49
26:X2:278:CYS:SG	26:X2:323:ASP:HB2	2.53	0.49
1:A1:1223:GLU:OE1	2:A2:761:GLN:NE2	2.42	0.49
1:A1:1332:ARG:HH21	6:D1:685:VAL:CB	2.13	0.49
2:A2:866:SER:H	6:D1:605:THR:HA	1.60	0.49
2:A2:985:ALA:HB1	6:D1:500:LYS:CA	2.42	0.49
2:A2:1139:ILE:CG2	3:A5:131:PRO:N	2.73	0.49
2:A2:1141:GLU:OE2	3:A5:567:VAL:N	2.36	0.49
1:A3:1332:ARG:HE	6:D3:636:ASP:CB	2.23	0.49
2:A4:1131:ILE:HD12	3:A6:160:ILE:CD1	2.40	0.49
2:A4:1139:ILE:O	3:A6:131:PRO:O	2.30	0.49
6:D2:727:VAL:O	6:D2:731:VAL:HG23	2.12	0.49
8:F1:1091:SER:OG	17:O2:238:ALA:CA	2.60	0.49
11:I1:301:GLN:OE1	11:I1:301:GLN:N	2.42	0.49
11:I1:986:ASN:C	15:M1:611:LYS:C	2.80	0.49
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD21	2.27	0.49
11:I2:967:SER:OG	15:M3:625:GLY:N	2.46	0.49
11:I2:1112:SER:HB3	12:J2:241:THR:CB	2.43	0.49
11:I3:288:ILE:O	11:I3:292:GLY:N	2.46	0.49
11:I3:1273:GLU:CB	26:X1:527:VAL:N	2.75	0.49
11:I4:389:GLN:N	11:I4:389:GLN:OE1	2.46	0.49
11:I4:1112:SER:HB3	12:J4:241:THR:CB	2.43	0.49
11:I5:1083:GLU:OE1	11:I5:1083:GLU:N	2.42	0.49
11:I5:1112:SER:HB3	12:J5:241:THR:CB	2.43	0.49
17:O2:142:PHE:HA	17:O2:145:ILE:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:418:TYR:N	21:S2:418:TYR:CD1	2.81	0.49
21:S3:429:SER:HB2	21:S3:436:SER:OG	2.12	0.49
21:S4:682:ASN:CA	21:S4:684:THR:HA	2.41	0.49
21:S4:1052:LEU:HA	21:S4:1055:LEU:CD2	2.43	0.49
24:V4:374:LYS:O	24:V4:377:GLU:HB2	2.11	0.49
25:W4:138:PRO:HB2	25:W4:140:ILE:HD11	1.93	0.49
28:Z1:102:MET:HE3	28:Z1:163:PRO:HD2	1.95	0.49
28:Z1:288:VAL:HG13	28:Z1:336:LEU:HD22	1.93	0.49
28:Z2:394:ASP:OD2	30:b2:241:PRO:O	2.30	0.49
28:Z2:524:VAL:HG13	30:b2:236:THR:C	2.30	0.49
28:Z2:591:MET:HE1	28:Z2:630:THR:OG1	2.12	0.49
28:Z3:53:GLY:HA2	28:Z3:73:SER:HA	1.94	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:Z4:639:LEU:HD23	30:b4:232:PRO:CG	2.42	0.49
30:b1:55:GLY:H	30:b1:384:ARG:NH1	2.09	0.49
2:A2:904:GLN:CA	6:D1:603:SER:H	2.25	0.49
2:A2:980:ARG:CA	6:D1:473:GLU:CG	2.88	0.49
1:A3:1201:ARG:O	2:A4:732:GLN:C	2.53	0.49
2:A4:871:ASN:HB2	6:D3:571:SER:H	1.76	0.49
2:A4:1092:ASN:HD21	6:D4:708:ASP:HB2	1.76	0.49
3:A5:166:LEU:CG	5:C2:741:THR:C	2.77	0.49
3:A5:996:ASN:OD1	11:I5:54:LYS:C	2.56	0.49
3:A5:1098:ARG:NH1	11:I5:29:GLN:HG2	2.08	0.49
6:D4:727:VAL:O	6:D4:731:VAL:HG23	2.13	0.49
6:D7:639:LEU:HD22	6:D7:689:PHE:CG	2.47	0.49
8:F1:982:PRO:HG3	11:I1:1388:GLU:HG3	1.95	0.49
11:I1:389:GLN:N	11:I1:389:GLN:OE1	2.45	0.49
11:I1:797:LEU:HD23	17:O1:241:SER:OG	2.11	0.49
11:I1:942:HIS:N	17:O1:260:LEU:N	2.59	0.49
11:I1:959:SER:HB2	20:R1:166:LEU:HD21	1.90	0.49
11:I1:976:ARG:HB3	20:R1:150:ASN:N	2.28	0.49
11:I1:978:LYS:CG	20:R1:154:ALA:H	2.10	0.49
11:I1:981:VAL:CG2	20:R1:147:LEU:CG	2.53	0.49
11:I1:1000:ILE:HG22	16:N1:413:VAL:CG2	2.27	0.49
11:I2:922:ASP:C	15:M3:589:GLY:O	2.55	0.49
11:I2:947:LEU:HD13	17:O3:260:LEU:HD22	1.84	0.49
11:I4:1270:LYS:HD2	26:X3:530:ARG:H	1.76	0.49
11:I5:1644:ARG:CD	12:J5:275:PHE:CZ	2.96	0.49
18:P4:233:GLN:HB2	18:P4:236:GLN:NE2	2.28	0.49
21:S1:429:SER:HB2	21:S1:436:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:418:TYR:N	21:S3:418:TYR:CD1	2.81	0.49
23:U1:233:THR:HG22	23:U1:234:GLN:O	2.12	0.49
23:U2:379:ILE:HG13	23:U2:385:LEU:HD23	1.94	0.49
23:U3:233:THR:HG22	23:U3:234:GLN:O	2.12	0.49
24:V1:523:THR:HA	24:V1:526:HIS:HB2	1.94	0.49
24:V3:520:ARG:HH21	24:V3:542:GLN:HE21	1.58	0.49
26:X3:278:CYS:SG	26:X3:323:ASP:HB2	2.53	0.49
26:X4:64:LYS:HD3	27:Y4:324:ASP:HB3	1.95	0.49
26:X4:218:GLU:HA	26:X4:220:ASP:N	2.26	0.49
28:Z2:527:SER:CA	30:b2:204:GLU:CG	2.59	0.49
28:Z2:531:LYS:HB3	28:Z2:553:ILE:HG12	1.93	0.49
28:Z3:526:ARG:O	30:b3:184:SER:OG	2.30	0.49
28:Z4:438:GLU:CG	30:b4:314:PRO:HG2	2.41	0.49
29:a3:6:ALA:HB2	29:a3:373:TYR:CE2	2.47	0.49
30:b2:283:PHE:HB2	30:b2:299:GLY:N	2.27	0.49
30:b4:280:TRP:CD1	30:b4:305:PRO:HA	2.48	0.49
2:A2:226:PRO:CD	6:D1:708:ASP:CB	2.49	0.49
2:A2:809:THR:HB	2:A2:810:PRO:HD3	1.95	0.49
2:A2:825:ARG:NH1	6:D1:679:ILE:CD1	2.68	0.49
2:A4:1125:LEU:CG	3:A6:136:GLU:HB2	2.41	0.49
2:A4:1167:CYS:CB	4:B6:342:ARG:HG3	2.36	0.49
3:A5:164:LEU:O	5:C2:744:PHE:CZ	2.64	0.49
3:A5:1024:ASP:CB	11:I5:98:ALA:CA	2.77	0.49
3:A6:862:LEU:HD11	3:A6:904:GLN:HB3	1.95	0.49
3:A6:1404:LEU:N	28:Z4:919:PHE:O	2.45	0.49
5:C1:732:LYS:NZ	11:I1:1228:GLU:CB	2.76	0.49
9:G1:258:LYS:NZ	16:N2:408:MET:CE	2.75	0.49
11:I1:938:CYS:SG	15:M1:606:LEU:C	2.89	0.49
11:I1:1045:PHE:HE2	16:N1:430:ARG:O	1.95	0.49
11:I1:1112:SER:HB3	12:J1:241:THR:CB	2.43	0.49
11:I2:836:VAL:CG1	17:O3:244:GLU:CG	2.70	0.49
11:I2:1024:PHE:CG	16:N3:406:HIS:NE2	2.80	0.49
11:I2:1046:HIS:CA	17:O3:280:GLU:O	2.54	0.49
11:I3:1273:GLU:C	26:X1:523:LEU:HA	2.38	0.49
11:I4:1276:GLN:O	26:X3:519:ILE:O	2.22	0.49
15:M2:605:THR:O	17:O2:261:LYS:NZ	2.43	0.49
17:O3:148:ARG:HD2	18:P3:325:ILE:CG2	2.41	0.49
17:O3:148:ARG:NH2	18:P3:325:ILE:HG21	2.27	0.49
21:S2:176:MET:CE	21:S2:232:LEU:HD12	2.42	0.49
21:S3:1126:LEU:O	21:S3:1129:ASP:HB2	2.12	0.49
21:S4:429:SER:HB2	21:S4:436:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:379:ILE:HG13	23:U4:385:LEU:HD23	1.94	0.49
24:V3:526:HIS:C	24:V3:530:ARG:HD2	2.37	0.49
25:W3:181:LEU:HD23	25:W3:201:GLU:HG2	1.95	0.49
26:X1:110:GLY:O	26:X1:114:ILE:HG13	2.12	0.49
26:X4:110:GLY:O	26:X4:114:ILE:HG13	2.12	0.49
26:X4:158:PHE:O	26:X4:162:VAL:HG23	2.12	0.49
27:Y1:30:ASP:OD1	27:Y1:32:HIS:HB2	2.13	0.49
27:Y3:67:GLU:OE1	27:Y3:119:ALA:HB1	2.12	0.49
28:Z1:443:LEU:CD2	30:b1:250:GLY:HA3	2.36	0.49
28:Z3:410:ASN:CG	30:b3:252:ALA:HB2	2.23	0.49
28:Z3:539:GLU:CB	30:b3:164:CYS:C	2.79	0.49
28:Z4:410:ASN:CG	30:b4:252:ALA:HB2	2.23	0.49
28:Z4:555:LYS:CD	30:b4:212:PHE:CE1	2.96	0.49
28:Z4:561:GLN:CG	30:b4:235:LEU:HD23	2.35	0.49
29:a2:6:ALA:HB2	29:a2:373:TYR:CE2	2.47	0.49
30:b4:162:ASP:HA	30:b4:186:PRO:HB3	1.94	0.49
1:A1:1277:TRP:N	1:A1:1278:PRO:CD	2.75	0.49
2:A2:977:VAL:HA	6:D1:496:LEU:CD1	2.29	0.49
1:A3:1088:ASN:CA	6:D3:808:ASN:ND2	2.76	0.49
2:A4:864:ARG:CB	6:D3:608:ILE:HG12	2.43	0.49
2:A4:868:GLN:O	6:D3:598:ILE:CG1	2.58	0.49
2:A4:873:PRO:HG2	6:D3:568:ARG:O	2.12	0.49
2:A4:1148:ARG:HD2	3:A6:174:PRO:CD	2.41	0.49
3:A5:1027:HIS:HE1	11:I5:65:LYS:HB3	1.39	0.49
3:A6:1368:GLN:HB2	28:Z4:845:ILE:O	2.11	0.49
6:D1:639:LEU:HD22	6:D1:689:PHE:CG	2.47	0.49
6:D3:606:LYS:N	6:D3:607:PRO:CD	2.75	0.49
6:D7:512:LEU:HB2	11:I3:181:GLN:N	2.27	0.49
11:I1:52:ASP:OD1	11:I1:53:THR:N	2.46	0.49
11:I1:920:PHE:HZ	17:O1:247:TRP:CG	2.31	0.49
11:I1:1040:HIS:CD2	20:R1:170:LEU:HA	2.46	0.49
11:I2:702:GLN:OE1	11:I2:702:GLN:N	2.41	0.49
11:I2:1031:ALA:HB2	20:R3:168:LEU:HD22	1.78	0.49
11:I2:1037:THR:CB	20:R3:169:GLY:CA	2.71	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
18:P2:233:GLN:HB2	18:P2:236:GLN:NE2	2.28	0.49
21:S1:176:MET:CE	21:S1:232:LEU:HD12	2.42	0.49
21:S2:1119:LEU:C	21:S2:1121:GLU:N	2.71	0.49
21:S4:939:HIS:O	21:S4:939:HIS:CG	2.64	0.49
24:V1:281:ILE:HB	24:V1:301:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:483:GLU:OE2	24:V4:514:ARG:NH2	2.35	0.49
25:W2:181:LEU:HD23	25:W2:201:GLU:HG2	1.95	0.49
26:X2:110:GLY:O	26:X2:114:ILE:HG13	2.12	0.49
27:Y2:312:TRP:CZ3	27:Y2:319:LEU:HB2	2.48	0.49
28:Z1:539:GLU:HA	30:b1:163:ASP:OD2	2.11	0.49
28:Z3:527:SER:HA	30:b3:204:GLU:HB2	1.95	0.49
28:Z4:526:ARG:O	30:b4:184:SER:OG	2.30	0.49
28:Z4:532:PHE:H	30:b4:184:SER:CA	2.25	0.49
30:b2:55:GLY:H	30:b2:384:ARG:NH1	2.09	0.49
30:b3:280:TRP:CD1	30:b3:305:PRO:HA	2.48	0.49
2:A2:867:GLU:HG3	6:D1:605:THR:CB	2.42	0.49
2:A2:970:PHE:CB	6:D1:196:ILE:HD11	2.16	0.49
2:A2:1055:ARG:N	6:D2:762:ARG:HA	2.28	0.49
2:A2:1164:TYR:CA	4:B5:342:ARG:HG2	2.41	0.49
2:A4:976:LEU:CD1	6:D3:501:LEU:CD2	2.79	0.49
2:A4:1126:VAL:HG22	3:A6:139:ASN:OD1	2.07	0.49
2:A4:1132:PRO:CB	3:A6:161[A]:ASP:H	2.21	0.49
3:A5:1024:ASP:CG	11:I5:96:GLU:O	2.55	0.49
3:A6:1309:GLY:CA	28:Z4:830:LEU:H	2.18	0.49
6:D1:808:ASN:O	6:D1:812:VAL:HG23	2.13	0.49
9:G2:258:LYS:HG2	17:O4:259:ASP:OD2	2.11	0.49
11:I1:931:VAL:CG1	15:M1:604:ASN:CG	2.83	0.49
11:I1:953:LEU:CD2	15:M1:599:ILE:O	2.60	0.49
11:I1:967:SER:HB3	20:R1:150:ASN:HD21	1.78	0.49
11:I1:1044:GLY:C	17:O1:280:GLU:OE2	2.55	0.49
11:I1:1048:GLU:HG2	17:O1:288:GLU:H	1.76	0.49
11:I1:1667:GLN:HE22	11:I2:1662:ARG:HA	1.72	0.49
11:I2:52:ASP:OD1	11:I2:53:THR:N	2.46	0.49
11:I2:389:GLN:N	11:I2:389:GLN:OE1	2.45	0.49
11:I2:837:MET:HE3	17:O3:243:LEU:HG	1.95	0.49
11:I2:881:ILE:CG1	17:O3:250:LEU:HA	2.31	0.49
11:I2:898:VAL:HG22	17:O3:237:PRO:CD	2.03	0.49
11:I2:980:ILE:HG21	15:M3:622:VAL:H	1.78	0.49
11:I2:1052:LEU:H	17:O3:286:ILE:CA	2.25	0.49
11:I3:460:GLN:OE1	11:I3:460:GLN:N	2.39	0.49
11:I4:1273:GLU:O	26:X3:526:CYS:CB	2.61	0.49
11:I5:288:ILE:O	11:I5:292:GLY:N	2.46	0.49
11:I5:1072:ASN:O	11:I5:1076:THR:HG22	2.13	0.49
21:S1:1052:LEU:HA	21:S1:1055:LEU:CD2	2.42	0.49
21:S2:1070:LYS:O	21:S2:1074:LEU:HD12	2.11	0.49
21:S4:964:PHE:HE1	21:S4:1002:LEU:HD22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:781:THR:CG2	22:T2:784:GLU:H	2.26	0.49
24:V2:182:ARG:HD2	24:V2:449:GLN:OE1	2.13	0.49
25:W1:174:VAL:HA	25:W1:183:LYS:O	2.13	0.49
25:W4:57:TRP:HD1	25:W4:102:VAL:O	1.95	0.49
26:X2:228:PHE:HE2	26:X2:267:ARG:HB3	1.77	0.49
26:X3:64:LYS:HD3	27:Y3:324:ASP:HB3	1.95	0.49
27:Y2:67:GLU:OE1	27:Y2:119:ALA:HB1	2.12	0.49
27:Y4:67:GLU:OE1	27:Y4:119:ALA:HB1	2.12	0.49
28:Z1:394:ASP:OD2	30:b1:241:PRO:O	2.30	0.49
28:Z3:394:ASP:OD2	30:b3:241:PRO:O	2.30	0.49
28:Z3:532:PHE:H	30:b3:184:SER:CA	2.25	0.49
28:Z4:188:LYS:HE2	28:Z4:191:GLY:HA2	1.95	0.49
30:b1:258:VAL:HG13	30:b1:270:ALA:HB2	1.93	0.49
30:b2:280:TRP:CD1	30:b2:305:PRO:HA	2.48	0.49
2:A2:235:TYR:CD1	4:B2:347:LEU:CB	2.76	0.49
2:A2:1121:LEU:C	3:A5:133:LYS:N	2.69	0.49
2:A2:1154:PHE:CA	3:A5:175:GLU:HB3	1.80	0.49
1:A3:1224:PRO:CB	2:A4:727:ASN:C	2.57	0.49
2:A4:976:LEU:HD12	6:D3:501:LEU:HD22	1.91	0.49
2:A4:983:LEU:HD22	6:D3:497:PHE:HZ	1.52	0.49
2:A4:985:ALA:CB	6:D3:497:PHE:CA	2.91	0.49
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG2	2.46	0.49
3:A5:1057:PHE:CD2	3:A5:1096:ILE:HD13	2.48	0.49
3:A5:1310:ARG:HE	28:Z2:827:GLN:CB	2.26	0.49
3:A5:1381:ALA:N	28:Z2:810:ASP:O	2.46	0.49
3:A6:163:SER:O	5:C4:743:LEU:CG	2.42	0.49
4:B6:345:LYS:HB3	5:C4:737:LYS:HE2	1.72	0.49
11:I1:702:GLN:OE1	11:I1:702:GLN:N	2.41	0.49
11:I1:833:PHE:HE2	17:O1:238:ALA:CB	2.13	0.49
11:I1:925:LEU:HA	15:M1:596:ILE:CB	2.38	0.49
11:I2:1104:LEU:CD2	16:N3:437:VAL:HG23	2.24	0.49
11:I2:1608:SER:O	12:J1:299:GLY:HA2	2.13	0.49
11:I2:1644:ARG:CD	12:J2:275:PHE:CZ	2.96	0.49
11:I4:702:GLN:OE1	11:I4:702:GLN:N	2.41	0.49
21:S1:946:LEU:HB3	21:S1:981:SER:HB3	1.93	0.49
21:S2:429:SER:HB2	21:S2:436:SER:OG	2.12	0.49
21:S2:992:ILE:HG12	21:S2:992:ILE:O	2.13	0.49
21:S3:992:ILE:HG12	21:S3:992:ILE:O	2.13	0.49
22:T1:781:THR:HG23	22:T1:784:GLU:H	1.78	0.49
25:W1:229:ARG:HB2	25:W1:229:ARG:HH11	1.78	0.49
25:W4:181:LEU:HD23	25:W4:201:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:278:CYS:SG	26:X4:323:ASP:HB2	2.53	0.49
27:Y1:34:LYS:HG2	27:Y1:50:SER:HB2	1.95	0.49
27:Y4:41:ASP:N	29:a4:230:GLN:OE1	2.45	0.49
27:Y4:77:TYR:HA	27:Y4:110:SER:HB3	1.95	0.49
27:Y4:311:SER:O	27:Y4:319:LEU:HD12	2.13	0.49
28:Z1:639:LEU:HD23	30:b1:232:PRO:CG	2.42	0.49
28:Z3:401:THR:CB	30:b3:253:SER:N	2.76	0.49
30:b3:162:ASP:HA	30:b3:186:PRO:HB3	1.94	0.49
2:A2:198:VAL:O	4:B2:353:LEU:CB	2.58	0.49
2:A2:824:ASN:OD1	2:A2:859:GLN:NE2	2.40	0.49
2:A2:1138:GLU:CD	3:A5:167:TRP:CZ2	2.91	0.49
1:A3:1036:ALA:HB1	1:A3:1043:ALA:HB2	1.95	0.49
2:A4:872:ALA:HB2	6:D3:554:LEU:HD13	1.94	0.49
3:A5:862:LEU:HD11	3:A5:904:GLN:HB3	1.95	0.49
3:A5:996:ASN:HB3	11:I5:55:ASP:O	2.12	0.49
3:A5:1160:GLN:HB2	5:C5:743:LEU:HD22	1.95	0.49
3:A6:1397:LEU:HD21	28:Z4:907:LEU:O	2.13	0.49
6:D7:333:ALA:O	6:D7:337:VAL:HG23	2.13	0.49
11:I1:937:TYR:HD2	15:M1:602:MET:CE	2.26	0.49
11:I1:1072:ASN:O	11:I1:1076:THR:HG22	2.13	0.49
11:I2:879:VAL:CB	17:O3:251:ILE:HD12	2.40	0.49
11:I2:955:LYS:HG3	16:N3:403:VAL:H	1.77	0.49
11:I2:1072:ASN:O	11:I2:1076:THR:HG22	2.13	0.49
11:I3:1273:GLU:N	26:X1:527:VAL:N	2.61	0.49
11:I4:52:ASP:OD1	11:I4:53:THR:N	2.46	0.49
11:I4:460:GLN:OE1	11:I4:460:GLN:N	2.39	0.49
11:I4:1072:ASN:O	11:I4:1076:THR:HG22	2.13	0.49
18:P1:233:GLN:HB2	18:P1:236:GLN:NE2	2.28	0.49
21:S2:682:ASN:CA	21:S2:684:THR:HA	2.41	0.49
23:U2:50:ALA:HB1	23:U2:69:GLU:HG3	1.93	0.49
23:U2:349:SER:OG	23:U2:358:VAL:HG21	2.13	0.49
24:V1:173:ILE:H	24:V1:173:ILE:HD12	1.78	0.49
24:V2:317:GLY:O	24:V2:320:SER:HB3	2.13	0.49
24:V3:173:ILE:H	24:V3:173:ILE:HD12	1.78	0.49
24:V3:526:HIS:C	24:V3:528:LEU:N	2.68	0.49
25:W2:174:VAL:HA	25:W2:183:LYS:O	2.12	0.49
26:X2:158:PHE:O	26:X2:162:VAL:HG23	2.12	0.49
27:Y1:67:GLU:OE1	27:Y1:119:ALA:HB1	2.12	0.49
27:Y2:41:ASP:HB2	29:a2:231[B]:HIS:HE1	1.64	0.49
27:Y4:30:ASP:OD1	27:Y4:32:HIS:HB2	2.13	0.49
28:Z1:523:ASP:HB2	30:b1:238:ASN:HA	0.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:531:LYS:NZ	30:b1:166:LEU:HB2	2.20	0.49
28:Z1:591:MET:HE1	28:Z1:630:THR:OG1	2.12	0.49
28:Z2:522:ASN:OD1	30:b2:241:PRO:CG	2.40	0.49
28:Z2:532:PHE:H	30:b2:184:SER:CA	2.25	0.49
28:Z2:639:LEU:HD23	30:b2:232:PRO:CG	2.42	0.49
1:A1:780:GLU:HG3	1:A1:822:ILE:CG2	2.43	0.48
1:A1:1332:ARG:O	6:D1:637:LYS:HG2	2.12	0.48
2:A2:1156:ASP:H	3:A5:174:PRO:CA	2.26	0.48
1:A3:780:GLU:HG3	1:A3:822:ILE:CG2	2.43	0.48
1:A3:1054:SER:HB3	6:D3:809:ALA:HB3	1.94	0.48
1:A3:1224:PRO:HG2	2:A4:734:LEU:HD22	1.94	0.48
2:A4:987:LYS:NZ	6:D3:555:ARG:CG	2.76	0.48
3:A5:780:GLU:HG3	3:A5:822:ILE:CG2	2.43	0.48
3:A5:1011:TYR:CZ	11:I5:54:LYS:CG	2.93	0.48
3:A5:1414:PHE:C	28:Z2:962:LYS:H	2.17	0.48
6:D1:727:VAL:O	6:D1:731:VAL:HG23	2.13	0.48
6:D4:333:ALA:O	6:D4:337:VAL:HG23	2.13	0.48
8:F1:1137:GLN:CD	17:O2:249:ARG:HB3	2.33	0.48
9:G1:263:MET:CE	16:N2:411:GLN:HG2	2.40	0.48
11:I1:964:SER:N	20:R1:165:SER:HB3	2.28	0.48
11:I1:991:THR:CG2	17:O1:271:GLU:OE2	2.23	0.48
11:I1:1034:ASP:HB2	15:M1:630:LEU:CD1	2.42	0.48
11:I1:1064:LYS:HB3	16:N1:427:VAL:HG11	1.87	0.48
11:I2:881:ILE:CG2	17:O3:249:ARG:HH21	2.22	0.48
11:I2:1109:LEU:HB2	17:O3:290:TYR:CZ	2.29	0.48
15:M3:495:TRP:CG	16:N3:280:LEU:HD13	2.48	0.48
18:P3:233:GLN:HB2	18:P3:236:GLN:NE2	2.28	0.48
21:S1:418:TYR:N	21:S1:418:TYR:CD1	2.81	0.48
21:S4:680:PRO:O	21:S4:681:SER:C	2.56	0.48
22:T3:781:THR:HG23	22:T3:784:GLU:H	1.78	0.48
22:T4:828:TRP:O	22:T4:850:ARG:HD2	2.13	0.48
24:V2:526:HIS:C	24:V2:530:ARG:HD2	2.37	0.48
24:V3:182:ARG:HD2	24:V3:449:GLN:OE1	2.13	0.48
24:V4:182:ARG:HD2	24:V4:449:GLN:OE1	2.13	0.48
25:W4:229:ARG:HB2	25:W4:229:ARG:HH11	1.78	0.48
26:X3:110:GLY:O	26:X3:114:ILE:HG13	2.12	0.48
26:X4:228:PHE:HE2	26:X4:267:ARG:HB3	1.77	0.48
27:Y1:77:TYR:HA	27:Y1:110:SER:HB3	1.95	0.48
27:Y1:312:TRP:CZ3	27:Y1:319:LEU:HB2	2.48	0.48
28:Z1:527:SER:HA	30:b1:204:GLU:HB2	1.95	0.48
28:Z2:288:VAL:HG13	28:Z2:336:LEU:HD22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:401:THR:CA	30:b2:253:SER:C	2.67	0.48
28:Z2:522:ASN:O	28:Z2:526:ARG:HG3	2.12	0.48
28:Z3:102:MET:HE3	28:Z3:163:PRO:HD2	1.95	0.48
1:A1:862:LEU:HD11	1:A1:904:GLN:CB	2.43	0.48
2:A2:868:GLN:CB	6:D1:570:VAL:HG11	2.38	0.48
2:A2:974:PRO:HD2	6:D1:205:LEU:HD23	0.51	0.48
2:A2:1139:ILE:O	3:A5:131:PRO:CA	2.36	0.48
2:A2:1164:TYR:CG	4:B5:342:ARG:CD	2.91	0.48
1:A3:1396:GLY:HA2	2:A4:888:GLN:CB	2.42	0.48
2:A4:973:GLU:O	6:D3:499:LEU:CD1	2.60	0.48
2:A4:980:ARG:HD3	6:D3:503:LEU:HB2	1.94	0.48
2:A4:1167:CYS:SG	4:B6:342:ARG:CB	3.00	0.48
3:A5:150:PHE:HD2	5:C2:741:THR:CA	2.26	0.48
3:A5:1094:ILE:HD13	11:I5:34:LEU:HD22	1.95	0.48
3:A6:189:VAL:CG1	5:C4:742:ASP:CB	2.92	0.48
3:A6:1155:ASN:HD21	5:C6:735:ILE:HG23	1.78	0.48
3:A6:1399:ARG:NH2	28:Z4:945:VAL:CA	2.76	0.48
6:D2:333:ALA:O	6:D2:337:VAL:HG23	2.13	0.48
6:D2:808:ASN:O	6:D2:812:VAL:HG23	2.13	0.48
6:D7:179:ASP:OD2	11:I3:49:PRO:CA	2.61	0.48
11:I1:880:MET:HE3	17:O1:247:TRP:HE3	1.71	0.48
11:I1:919:ALA:O	15:M1:592:LEU:CG	2.61	0.48
11:I1:934:LEU:N	15:M1:602:MET:SD	2.86	0.48
11:I1:951:LYS:HE2	16:N1:404:GLU:OE1	2.13	0.48
11:I1:981:VAL:CG1	20:R1:151:LYS:HG3	2.23	0.48
11:I1:1048:GLU:OE2	20:R1:146:LEU:HD12	2.12	0.48
11:I1:1109:LEU:CD1	16:N1:441:PHE:HB2	2.37	0.48
11:I2:884:LEU:HD11	15:M3:599:ILE:CG1	2.41	0.48
11:I2:951:LYS:CG	17:O3:253:LEU:HD11	2.44	0.48
11:I2:982:GLN:N	15:M3:621:ARG:HH12	2.11	0.48
11:I2:993:SER:N	15:M3:608:LYS:HG3	2.28	0.48
11:I2:1017:VAL:HG23	16:N3:411:GLN:O	2.11	0.48
11:I2:1038:ILE:HG13	15:M3:604:ASN:HD21	1.79	0.48
11:I2:1042:LEU:CD1	15:M3:607:SER:HB3	2.43	0.48
11:I3:1112:SER:HB3	12:J3:241:THR:CB	2.43	0.48
15:M4:495:TRP:CG	16:N4:280:LEU:HD13	2.48	0.48
19:Q2:208:GLY:HA3	19:Q2:210:TRP:CZ3	2.48	0.48
21:S3:1012:LEU:HA	21:S3:1015:GLU:HB2	1.95	0.48
21:S4:882:GLN:C	21:S4:884:ARG:N	2.69	0.48
22:T3:781:THR:CG2	22:T3:784:GLU:H	2.26	0.48
22:T4:781:THR:CG2	22:T4:784:GLU:H	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:523:THR:HA	24:V2:526:HIS:HB2	1.94	0.48
27:Y2:196:ARG:HH11	27:Y2:202:LEU:HD21	1.78	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:N	2.28	0.48
28:Z1:163:PRO:HA	28:Z1:178:LEU:HA	1.95	0.48
28:Z1:525:LEU:O	30:b1:208:ASN:ND2	2.25	0.48
28:Z1:555:LYS:CD	30:b1:212:PHE:CE1	2.96	0.48
28:Z2:102:MET:HE3	28:Z2:163:PRO:HD2	1.95	0.48
28:Z2:188:LYS:HE2	28:Z2:191:GLY:HA2	1.95	0.48
28:Z2:531:LYS:CD	30:b2:183:LEU:N	2.63	0.48
28:Z3:163:PRO:HA	28:Z3:178:LEU:HA	1.95	0.48
28:Z3:541:PRO:HD3	30:b3:165:THR:HG21	1.95	0.48
2:A2:882:SER:HB2	6:D1:604:ASP:OD2	2.13	0.48
2:A2:1160:GLN:HG2	3:A5:175:GLU:O	2.13	0.48
1:A3:862:LEU:HD11	1:A3:904:GLN:CB	2.43	0.48
2:A4:973:GLU:N	6:D3:205:LEU:CB	2.76	0.48
2:A4:1139:ILE:HB	3:A6:138:LEU:CD1	2.41	0.48
2:A4:1142:PHE:CB	3:A6:129:ASN:O	2.52	0.48
3:A5:999:SER:HA	11:I5:63:PRO:N	2.26	0.48
6:D3:333:ALA:O	6:D3:337:VAL:HG23	2.13	0.48
6:D5:610:ASN:O	6:D5:614:SER:N	2.43	0.48
11:I1:966:TRP:HZ3	20:R1:167:GLN:HG2	1.28	0.48
11:I1:1540:LYS:NZ	11:I2:1739:GLU:HB2	2.28	0.48
11:I1:1644:ARG:CD	12:J1:275:PHE:CZ	2.96	0.48
11:I1:1666:THR:N	11:I2:1664:PHE:HA	2.19	0.48
11:I2:840:LEU:CG	17:O3:247:TRP:HD1	2.27	0.48
11:I2:922:ASP:H	15:M3:592:LEU:HB3	1.75	0.48
11:I2:1051:LYS:HZ2	17:O3:285:LYS:HD2	1.66	0.48
11:I5:52:ASP:OD1	11:I5:53:THR:N	2.46	0.48
17:O2:110:LEU:HD11	18:P2:321:ILE:CB	2.31	0.48
21:S1:1012:LEU:HA	21:S1:1015:GLU:HB2	1.95	0.48
21:S1:1143:VAL:HA	21:S1:1146:ALA:CB	2.41	0.48
21:S2:964:PHE:HE1	21:S2:1002:LEU:HD22	1.78	0.48
22:T1:828:TRP:O	22:T1:850:ARG:HD2	2.13	0.48
24:V1:152:ALA:HB3	25:W1:272:SER:OG	2.13	0.48
24:V3:397:GLU:OE1	24:V3:397:GLU:N	2.40	0.48
24:V4:317:GLY:O	24:V4:320:SER:HB3	2.13	0.48
25:W1:181:LEU:HD23	25:W1:201:GLU:HG2	1.95	0.48
25:W2:18:ASP:OD1	25:W2:18:ASP:N	2.46	0.48
26:X1:278:CYS:SG	26:X1:323:ASP:HB2	2.53	0.48
26:X2:64:LYS:HD3	27:Y2:324:ASP:HB3	1.95	0.48
26:X3:262:ILE:HG12	26:X3:289:ILE:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:262:ILE:HG12	26:X4:289:ILE:HG23	1.96	0.48
27:Y2:311:SER:O	27:Y2:319:LEU:HD12	2.13	0.48
28:Z2:24:VAL:HG11	28:Z2:143:ASN:HA	1.95	0.48
28:Z2:163:PRO:HA	28:Z2:178:LEU:HA	1.95	0.48
28:Z2:541:PRO:HD3	30:b2:165:THR:HG21	1.96	0.48
28:Z3:736:ASN:C	28:Z3:738:ARG:H	2.21	0.48
2:A2:866:SER:OG	6:D1:603:SER:C	2.57	0.48
2:A2:1158:ALA:N	3:A5:175:GLU:CB	2.76	0.48
2:A2:1305:ALA:CB	2:A2:1306:PRO:HD3	2.37	0.48
2:A4:982:THR:CG2	6:D3:495:VAL:C	2.46	0.48
2:A4:1154:PHE:CD2	3:A6:175:GLU:OE1	2.67	0.48
2:A4:1157:TYR:CB	3:A6:133:LYS:CB	2.91	0.48
3:A5:177:ILE:HD13	5:C2:740:ARG:HE	1.78	0.48
3:A5:1373:GLY:O	28:Z2:810:ASP:O	2.31	0.48
3:A5:1381:ALA:CB	28:Z2:810:ASP:CA	2.84	0.48
3:A6:780:GLU:HG3	3:A6:822:ILE:CG2	2.43	0.48
3:A6:1320:ALA:O	28:Z4:911:GLU:CB	2.61	0.48
6:D3:808:ASN:O	6:D3:812:VAL:HG23	2.13	0.48
6:D6:333:ALA:O	6:D6:337:VAL:HG23	2.14	0.48
6:D7:530:ARG:HG2	11:I3:181:GLN:CA	2.43	0.48
6:D7:808:ASN:O	6:D7:812:VAL:HG23	2.13	0.48
8:F2:1001:ILE:HD12	8:F2:1001:ILE:O	2.13	0.48
9:G1:258:LYS:CA	17:O2:252:VAL:HG12	2.43	0.48
11:I1:978:LYS:HG3	20:R1:153:GLN:HB3	1.96	0.48
11:I1:1041:GLN:OE1	15:M1:620:VAL:HB	2.13	0.48
11:I2:840:LEU:HD13	17:O3:247:TRP:HD1	1.77	0.48
11:I2:953:LEU:CD1	15:M3:607:SER:H	2.26	0.48
11:I2:962:ILE:HG13	15:M3:600:ASN:ND2	2.28	0.48
11:I2:1039:ALA:HB1	20:R3:170:LEU:CG	0.28	0.48
11:I3:1644:ARG:CD	12:J3:275:PHE:CZ	2.95	0.48
11:I4:1271:GLU:OE2	26:X3:504:ILE:HD12	2.12	0.48
11:I4:1644:ARG:CD	12:J4:275:PHE:CZ	2.96	0.48
11:I5:1235:THR:OG1	29:a2:22:PRO:HG3	2.13	0.48
15:M1:495:TRP:CG	16:N1:280:LEU:HD13	2.48	0.48
17:O3:137:VAL:HG21	18:P3:326:GLN:HG2	1.95	0.48
21:S1:882:GLN:C	21:S1:884:ARG:N	2.69	0.48
21:S3:176:MET:CE	21:S3:232:LEU:HD12	2.42	0.48
22:T1:781:THR:CG2	22:T1:784:GLU:H	2.26	0.48
23:U1:8:GLN:C	23:U1:10:GLU:N	2.68	0.48
23:U1:159:ASP:OD2	24:V1:319:LEU:N	2.29	0.48
23:U1:349:SER:OG	23:U1:358:VAL:HG21	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y3:41:ASP:N	29:a3:230:GLN:OE1	2.45	0.48
28:Z1:438:GLU:OE1	30:b1:333:HIS:NE2	2.46	0.48
28:Z1:558:LEU:O	30:b1:234:LEU:O	2.29	0.48
28:Z2:531:LYS:CG	30:b2:182:PRO:O	2.61	0.48
28:Z2:736:ASN:C	28:Z2:738:ARG:H	2.21	0.48
28:Z3:24:VAL:HG11	28:Z3:143:ASN:HA	1.95	0.48
28:Z3:541:PRO:HD2	28:Z3:544:MET:HE2	1.96	0.48
28:Z3:555:LYS:HA	30:b3:212:PHE:HA	1.89	0.48
30:b1:280:TRP:CD1	30:b1:305:PRO:HA	2.48	0.48
1:A1:1332:ARG:HH22	6:D1:682:ASN:N	2.10	0.48
2:A2:225:THR:CG2	6:D1:709:ARG:H	2.06	0.48
2:A2:1122:LEU:HD11	3:A5:135:PHE:HB2	1.95	0.48
2:A4:866:SER:OG	6:D3:603:SER:C	2.56	0.48
2:A4:879:LEU:HD13	6:D3:564:ASN:HD21	1.77	0.48
2:A4:1154:PHE:N	3:A6:175:GLU:CB	2.76	0.48
3:A5:179:TYR:CD1	5:C2:744:PHE:CD1	3.01	0.48
3:A6:171:HIS:CE1	5:C4:730:HIS:HD2	2.24	0.48
6:D4:808:ASN:O	6:D4:812:VAL:HG23	2.13	0.48
6:D6:808:ASN:O	6:D6:812:VAL:HG23	2.13	0.48
8:F1:982:PRO:CB	11:I1:1388:GLU:OE2	2.57	0.48
9:G1:255:LEU:C	15:M2:602:MET:CB	2.71	0.48
9:G1:255:LEU:HD13	17:O2:258:GLU:N	2.26	0.48
11:I1:927:HIS:CD2	15:M1:597:LYS:HD2	2.42	0.48
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CD	2.42	0.48
11:I2:833:PHE:CZ	17:O3:241:SER:O	2.65	0.48
11:I2:930:LEU:HD11	17:O3:254:ARG:HH22	1.78	0.48
11:I2:957:SER:HB3	20:R3:167:GLN:O	2.13	0.48
11:I2:1045:PHE:CB	15:M3:619:ILE:HD12	2.42	0.48
11:I4:301:GLN:OE1	11:I4:301:GLN:N	2.42	0.48
11:I4:1271:GLU:CD	26:X3:504:ILE:CD1	2.86	0.48
21:S2:176:MET:CE	21:S2:232:LEU:HD13	2.43	0.48
21:S3:176:MET:CE	21:S3:232:LEU:HD13	2.43	0.48
21:S3:1119:LEU:C	21:S3:1121:GLU:N	2.71	0.48
22:T2:829:MET:O	22:T2:846:MET:HE2	2.14	0.48
22:T2:885:ARG:CG	22:T2:885:ARG:NH1	2.73	0.48
22:T3:828:TRP:O	22:T3:850:ARG:HD2	2.13	0.48
24:V3:152:ALA:HB3	25:W3:272:SER:OG	2.13	0.48
24:V4:523:THR:HA	24:V4:526:HIS:HB2	1.95	0.48
25:W2:38:VAL:O	25:W2:39:GLU:HG3	2.14	0.48
25:W3:174:VAL:HA	25:W3:183:LYS:O	2.12	0.48
25:W4:174:VAL:HA	25:W4:183:LYS:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:262:ILE:HG12	26:X2:289:ILE:HG23	1.95	0.48
27:Y1:41:ASP:N	29:a1:230:GLN:OE1	2.45	0.48
27:Y2:41:ASP:N	29:a2:230:GLN:OE1	2.45	0.48
27:Y3:311:SER:O	27:Y3:319:LEU:HD12	2.13	0.48
27:Y4:218:ILE:HG22	27:Y4:233:THR:HG22	1.94	0.48
28:Z2:160:VAL:HG23	28:Z2:161:ARG:H	1.79	0.48
28:Z3:561:GLN:NE2	30:b3:237:LEU:CD1	2.60	0.48
28:Z3:967:PHE:HA	28:Z3:978:ALA:HB2	1.96	0.48
29:a2:91:ALA:HB2	29:a2:137[A]:VAL:HG13	1.96	0.48
30:b2:162:ASP:HA	30:b2:186:PRO:HB3	1.94	0.48
30:b3:40:ILE:HG23	30:b3:73:LEU:HD11	1.96	0.48
30:b4:40:ILE:HG23	30:b4:73:LEU:HD11	1.96	0.48
1:A1:868:GLN:O	6:D3:280:GLN:HB3	2.10	0.48
1:A1:1036:ALA:HB1	1:A1:1043:ALA:HB2	1.95	0.48
1:A1:1098:ARG:NH2	11:I1:1421:ARG:HH22	2.11	0.48
2:A2:908:LEU:HD23	6:D1:601:PHE:CA	2.44	0.48
2:A2:1131:ILE:HG23	3:A5:165:PHE:CD2	2.47	0.48
2:A4:972:GLY:N	6:D3:204:ASN:OD1	2.42	0.48
2:A4:986:THR:CB	6:D3:504:LYS:CE	2.83	0.48
2:A4:1135:ARG:HB2	3:A6:159:SER:C	2.33	0.48
2:A4:1228:TYR:O	2:A4:1232:SER:OG	2.29	0.48
3:A5:1094:ILE:HD12	11:I5:34:LEU:HD21	1.95	0.48
3:A5:1376:LEU:O	28:Z2:815:PHE:CB	2.62	0.48
3:A6:221:SER:H	5:C4:738:ASP:CA	2.26	0.48
5:C3:732:LYS:HE2	11:I2:1228:GLU:CD	2.39	0.48
6:D3:615:VAL:HG23	6:D3:616:ALA:N	2.29	0.48
6:D5:333:ALA:O	6:D5:337:VAL:HG23	2.13	0.48
6:D6:445:LEU:C	6:D6:445:LEU:HD12	2.39	0.48
6:D7:610:ASN:O	6:D7:614:SER:N	2.43	0.48
8:F1:1136:GLN:O	17:O2:248:SER:OG	2.30	0.48
8:F2:1095:TYR:CD2	17:O4:244:GLU:OE1	2.66	0.48
11:I1:842:ASN:O	15:M1:591:ASP:OD1	2.31	0.48
11:I1:873:ILE:HG23	17:O1:254:ARG:CB	2.43	0.48
11:I1:921:GLU:OE1	16:N1:392:THR:C	2.56	0.48
11:I1:1034:ASP:OD2	20:R1:180:LEU:HD22	2.13	0.48
11:I1:1065:SER:OG	16:N1:430:ARG:HG2	2.11	0.48
11:I2:888:GLU:HG2	16:N3:390:GLU:O	2.14	0.48
11:I2:990:GLU:O	17:O3:271:GLU:O	2.23	0.48
11:I2:1049:LEU:N	20:R3:146:LEU:HD12	1.88	0.48
11:I3:1267:LEU:HA	26:X1:529:TRP:CA	2.41	0.48
11:I4:300:LEU:HD23	11:I4:300:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:702:GLN:OE1	11:I5:702:GLN:N	2.41	0.48
21:S1:1052:LEU:HD21	21:S1:1073:ILE:CD1	2.32	0.48
21:S1:1070:LYS:HZ3	21:S1:1121:GLU:HB3	1.79	0.48
21:S2:933:GLU:CD	21:S2:933:GLU:C	2.82	0.48
21:S2:948:LYS:HE3	21:S2:948:LYS:HB2	1.72	0.48
21:S4:1012:LEU:HA	21:S4:1015:GLU:HB2	1.95	0.48
23:U1:157:ASP:OD1	23:U1:163:ARG:NH2	2.46	0.48
23:U1:379:ILE:HG13	23:U1:385:LEU:HD23	1.95	0.48
24:V2:152:ALA:HB3	25:W2:272:SER:OG	2.13	0.48
24:V2:173:ILE:H	24:V2:173:ILE:HD12	1.78	0.48
24:V4:433:GLU:OE1	24:V4:467:SER:OG	2.20	0.48
25:W2:229:ARG:HB2	25:W2:229:ARG:HH11	1.78	0.48
25:W3:38:VAL:O	25:W3:39:GLU:HG3	2.14	0.48
27:Y2:77:TYR:HA	27:Y2:110:SER:HB3	1.95	0.48
27:Y3:30:ASP:OD1	27:Y3:32:HIS:HB2	2.13	0.48
27:Y4:312:TRP:CZ3	27:Y4:319:LEU:HB2	2.48	0.48
28:Z1:532:PHE:N	30:b1:184:SER:CA	2.77	0.48
28:Z1:736:ASN:C	28:Z1:738:ARG:H	2.21	0.48
28:Z2:526:ARG:O	30:b2:206:ASN:CG	2.37	0.48
28:Z2:532:PHE:N	30:b2:184:SER:CA	2.77	0.48
28:Z4:288:VAL:HG13	28:Z4:336:LEU:HD22	1.93	0.48
28:Z4:967:PHE:HA	28:Z4:978:ALA:HB2	1.95	0.48
30:b1:162:ASP:HA	30:b1:186:PRO:HB3	1.94	0.48
30:b2:40:ILE:HG23	30:b2:73:LEU:HD11	1.96	0.48
30:b4:283:PHE:HB2	30:b4:299:GLY:N	2.27	0.48
2:A2:227:SER:HB3	6:D1:712:ASP:H	1.75	0.48
1:A3:1049:PHE:HA	6:D3:816:VAL:CG2	2.43	0.48
2:A4:1094:ILE:HG21	6:D4:759:GLN:HG2	1.96	0.48
2:A4:1130:ARG:O	3:A6:160:ILE:O	2.31	0.48
3:A5:177:ILE:HD13	5:C2:740:ARG:NE	2.24	0.48
3:A5:1155:ASN:HD21	5:C5:735:ILE:HG23	1.78	0.48
3:A5:1369:ILE:HG13	28:Z2:832:PHE:H	1.68	0.48
3:A6:1057:PHE:CD2	3:A6:1096:ILE:HD13	2.48	0.48
4:B6:344:ALA:C	5:C4:737:LYS:HD3	2.39	0.48
6:D1:615:VAL:HG23	6:D1:616:ALA:N	2.29	0.48
6:D7:445:LEU:C	6:D7:445:LEU:HD12	2.39	0.48
6:D7:530:ARG:HG2	11:I3:182:VAL:N	2.28	0.48
11:I1:947:LEU:HD22	17:O1:256:TYR:OH	2.14	0.48
11:I1:1014:ASN:CA	16:N1:411:GLN:C	2.80	0.48
11:I2:288:ILE:O	11:I2:292:GLY:N	2.46	0.48
11:I2:883:ALA:HA	17:O3:242:ARG:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:924:ILE:CB	15:M3:597:LYS:H	2.16	0.48
11:I5:656:MET:O	11:I5:659:LYS:NZ	2.44	0.48
17:O4:111:TYR:HA	18:P4:325:ILE:CD1	2.43	0.48
21:S2:680:PRO:O	21:S2:681:SER:C	2.56	0.48
21:S2:1070:LYS:HZ3	21:S2:1121:GLU:HB3	1.79	0.48
21:S3:933:GLU:CD	21:S3:933:GLU:C	2.82	0.48
21:S3:1075:CYS:HA	21:S3:1078:LEU:HD12	1.96	0.48
23:U3:379:ILE:HG13	23:U3:385:LEU:HD23	1.95	0.48
24:V1:270:THR:OG1	24:V1:391:CYS:SG	2.72	0.48
24:V2:397:GLU:OE1	24:V2:397:GLU:N	2.40	0.48
24:V4:152:ALA:HB3	25:W4:272:SER:OG	2.13	0.48
26:X4:417:ALA:HB1	26:X4:465:MET:HE1	1.96	0.48
27:Y1:196:ARG:HH11	27:Y1:202:LEU:HD21	1.78	0.48
27:Y2:41:ASP:O	29:a2:231[B]:HIS:NE2	2.45	0.48
27:Y4:196:ARG:HH11	27:Y4:202:LEU:HD21	1.78	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:H	1.79	0.48
28:Z1:188:LYS:HE2	28:Z1:191:GLY:HA2	1.95	0.48
28:Z1:407:GLY:C	30:b1:251:ILE:CG1	2.84	0.48
28:Z2:160:VAL:HG23	28:Z2:161:ARG:N	2.28	0.48
28:Z2:438:GLU:OE1	30:b2:333:HIS:NE2	2.46	0.48
28:Z3:188:LYS:HE2	28:Z3:191:GLY:HA2	1.95	0.48
28:Z3:247:ASP:O	28:Z3:251:PHE:N	2.47	0.48
29:a4:91:ALA:HB2	29:a4:137[A]:VAL:HG13	1.96	0.48
30:b1:78:SER:OG	30:b1:144:ASP:OD2	2.27	0.48
2:A2:971:ALA:HA	6:D1:202:GLN:HG2	1.96	0.48
2:A2:1148:ARG:CZ	3:A5:172:PRO:HA	2.44	0.48
2:A4:983:LEU:CD2	6:D3:528:PHE:CE1	2.94	0.48
2:A4:1135:ARG:N	3:A6:145:THR:C	2.72	0.48
2:A4:1160:GLN:HB3	5:C4:743:LEU:HD22	1.96	0.48
2:A4:1167:CYS:O	4:B6:342:ARG:NH1	2.33	0.48
3:A5:1377:ARG:HH12	28:Z2:722:THR:HA	1.79	0.48
3:A6:1401:VAL:HA	28:Z4:919:PHE:C	2.39	0.48
6:D1:333:ALA:O	6:D1:337:VAL:HG23	2.14	0.48
6:D1:445:LEU:C	6:D1:445:LEU:HD12	2.39	0.48
6:D2:445:LEU:C	6:D2:445:LEU:HD12	2.39	0.48
6:D4:615:VAL:HG23	6:D4:616:ALA:N	2.29	0.48
8:F1:1713:LEU:HD12	8:F1:1714:LEU:N	2.28	0.48
9:G2:257:THR:CG2	17:O4:257:ALA:N	2.77	0.48
11:I1:978:LYS:HG3	20:R1:153:GLN:H	1.73	0.48
11:I1:1035:GLN:HG2	15:M1:628:ALA:N	2.28	0.48
11:I2:875:ARG:O	17:O3:251:ILE:CB	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:915:ALA:HB3	15:M3:583:ASP:C	2.38	0.48
11:I2:951:LYS:CG	17:O3:253:LEU:CD1	2.92	0.48
11:I2:1034:ASP:OD1	15:M3:627:LEU:CD2	2.62	0.48
11:I2:1118:LEU:HD11	16:N3:432:TYR:HD2	1.75	0.48
11:I4:288:ILE:O	11:I4:292:GLY:N	2.46	0.48
21:S1:992:ILE:HG12	21:S1:992:ILE:O	2.13	0.48
21:S2:690:PHE:C	21:S2:692:GLU:N	2.71	0.48
21:S4:176:MET:CE	21:S4:232:LEU:HD13	2.43	0.48
21:S4:933:GLU:CD	21:S4:933:GLU:C	2.82	0.48
22:T2:781:THR:HG23	22:T2:784:GLU:H	1.78	0.48
22:T2:828:TRP:O	22:T2:850:ARG:HD2	2.13	0.48
25:W2:118:VAL:O	25:W2:125:VAL:HA	2.14	0.48
26:X1:533:GLU:H	26:X1:533:GLU:HG2	1.45	0.48
26:X2:390:TRP:C	26:X2:393:PRO:HD2	2.39	0.48
27:Y4:34:LYS:HG2	27:Y4:50:SER:HB2	1.95	0.48
28:Z1:233:TYR:CG	28:Z1:311:LEU:HD22	2.49	0.48
28:Z1:541:PRO:HD3	30:b1:165:THR:HG21	1.96	0.48
28:Z1:739:PHE:O	28:Z1:743:ASN:N	2.36	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:N	2.28	0.48
28:Z3:532:PHE:N	30:b3:184:SER:CA	2.77	0.48
28:Z3:535:ILE:CD1	30:b3:182:PRO:CG	2.88	0.48
28:Z4:407:GLY:C	30:b4:251:ILE:CG1	2.84	0.48
29:a3:91:ALA:HB2	29:a3:137[A]:VAL:HG13	1.96	0.48
1:A1:1055:ARG:NH2	1:A1:1058:GLU:OE1	2.46	0.48
2:A2:1137:ALA:O	3:A5:564:ASN:O	2.32	0.48
2:A2:1164:TYR:OH	4:B5:343:LYS:O	2.31	0.48
2:A4:809:THR:HB	2:A4:810:PRO:HD3	1.95	0.48
2:A4:977:VAL:HA	6:D3:492:VAL:HG13	1.94	0.48
2:A4:1157:TYR:CB	3:A6:133:LYS:HB2	2.44	0.48
3:A5:1369:ILE:HD11	28:Z2:832:PHE:C	2.38	0.48
3:A6:186:ILE:CA	5:C4:745:SER:HA	2.16	0.48
3:A6:1351:MSE:O	28:Z4:918:PHE:CA	2.61	0.48
3:A6:1399:ARG:HH22	28:Z4:946:ASP:N	2.12	0.48
3:A6:1412:MSE:O	28:Z4:961:PHE:C	2.53	0.48
8:F1:1001:ILE:O	8:F1:1001:ILE:HD12	2.13	0.48
8:F2:795:GLU:OE1	8:F2:795:GLU:N	2.42	0.48
9:G1:263:MET:HE2	16:N2:411:GLN:CG	2.40	0.48
11:I1:939:ASN:HB3	17:O1:265:ASN:CG	2.37	0.48
11:I1:1049:LEU:CA	15:M1:622:VAL:HG12	2.43	0.48
11:I1:1072:ASN:CG	16:N1:429:GLU:OE1	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1103:LEU:HD22	20:R1:175:GLN:HG2	1.95	0.48
11:I1:1110:SER:HA	16:N1:438:LEU:HB2	1.95	0.48
11:I1:1611:PHE:HZ	11:I2:1669:ARG:HH11	1.57	0.48
11:I2:887:GLN:CB	17:O3:243:LEU:HD23	2.44	0.48
11:I2:976:ARG:HH22	15:M3:622:VAL:HG21	1.78	0.48
11:I2:985:ARG:N	15:M3:613:ASP:HB2	1.98	0.48
11:I3:52:ASP:OD1	11:I3:53:THR:N	2.46	0.48
11:I3:1034:ASP:OD1	11:I3:1035:GLN:N	2.44	0.48
11:I3:1072:ASN:O	11:I3:1076:THR:HG22	2.13	0.48
11:I3:1122:ASN:O	11:I3:1126:HIS:ND1	2.42	0.48
11:I4:1013:GLU:OE1	11:I4:1013:GLU:N	2.41	0.48
11:I5:1273:GLU:O	26:X2:524:SER:CB	2.51	0.48
19:Q4:208:GLY:HA3	19:Q4:210:TRP:CZ3	2.48	0.48
21:S1:680:PRO:O	21:S1:681:SER:C	2.56	0.48
21:S2:1075:CYS:HA	21:S2:1078:LEU:HD12	1.96	0.48
21:S4:418:TYR:N	21:S4:418:TYR:CD1	2.80	0.48
22:T3:829:MET:O	22:T3:846:MET:HE2	2.14	0.48
22:T4:829:MET:O	22:T4:846:MET:HE2	2.14	0.48
23:U4:349:SER:OG	23:U4:358:VAL:HG21	2.13	0.48
24:V1:317:GLY:O	24:V1:320:SER:HB3	2.13	0.48
24:V4:270:THR:OG1	24:V4:391:CYS:SG	2.72	0.48
25:W3:229:ARG:HB2	25:W3:229:ARG:HH11	1.78	0.48
26:X4:390:TRP:C	26:X4:393:PRO:HD2	2.39	0.48
28:Z2:401:THR:CB	30:b2:253:SER:N	2.76	0.48
28:Z2:541:PRO:HD2	28:Z2:544:MET:HE2	1.96	0.48
28:Z3:24:VAL:HG23	28:Z3:93:ILE:HG23	1.95	0.48
30:b2:280:TRP:CE2	30:b2:305:PRO:HB3	2.49	0.48
30:b3:280:TRP:CE2	30:b3:305:PRO:HB3	2.49	0.48
30:b4:280:TRP:CE2	30:b4:305:PRO:HB3	2.49	0.48
2:A2:985:ALA:CA	6:D1:498:GLU:HA	2.44	0.48
2:A2:1125:LEU:HD13	3:A5:134:VAL:N	2.29	0.48
2:A2:1127:ALA:HA	3:A5:140:ALA:CB	2.40	0.48
1:A3:1221:ILE:HG12	2:A4:642:ARG:HA	1.95	0.48
2:A4:974:PRO:CA	6:D3:499:LEU:HD11	2.19	0.48
2:A4:987:LYS:NZ	6:D3:555:ARG:HG2	2.29	0.48
2:A4:988:ARG:NH2	6:D3:498:GLU:O	2.46	0.48
2:A4:1149:THR:CB	3:A6:173:ASN:C	2.86	0.48
2:A4:1158:ALA:N	3:A6:176:LEU:HB2	2.23	0.48
3:A5:1051:THR:HB	11:I5:40:ASP:OD2	2.14	0.48
3:A5:1367:THR:C	28:Z2:829:SER:CB	2.87	0.48
3:A6:1160:GLN:HB2	5:C6:743:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:445:LEU:C	6:D3:445:LEU:HD12	2.39	0.48
11:I1:873:ILE:CG2	17:O1:254:ARG:CB	2.92	0.48
11:I1:922:ASP:CB	15:M1:592:LEU:HB3	2.44	0.48
11:I1:1032:THR:N	20:R1:177:LEU:N	2.52	0.48
11:I1:1044:GLY:HA2	15:M1:616:LEU:HD13	1.96	0.48
11:I2:988:GLU:N	15:M3:613:ASP:N	2.61	0.48
11:I2:1034:ASP:N	20:R3:177:LEU:HG	2.28	0.48
11:I2:1045:PHE:CE2	16:N3:431:VAL:HA	2.49	0.48
11:I2:1054:ILE:CA	17:O3:280:GLU:C	2.86	0.48
11:I2:1061:ASP:C	17:O3:277:GLU:OE1	2.57	0.48
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD11	1.93	0.48
11:I4:1267:LEU:CD2	26:X3:497:ARG:NE	2.77	0.48
15:M2:495:TRP:CG	16:N2:280:LEU:HD13	2.48	0.48
21:S2:1012:LEU:HA	21:S2:1015:GLU:HB2	1.95	0.48
23:U3:349:SER:OG	23:U3:358:VAL:HG21	2.13	0.48
25:W1:9:ASN:HD22	25:W1:9:ASN:HA	1.47	0.48
25:W1:38:VAL:O	25:W1:39:GLU:HG3	2.14	0.48
26:X2:392:GLN:HB3	26:X2:393:PRO:HD3	1.96	0.48
26:X3:390:TRP:C	26:X3:393:PRO:HD2	2.39	0.48
28:Z2:555:LYS:CD	30:b2:212:PHE:CE1	2.96	0.48
28:Z2:967:PHE:HA	28:Z2:978:ALA:HB2	1.95	0.48
28:Z3:160:VAL:HG23	28:Z3:161:ARG:H	1.79	0.48
28:Z3:438:GLU:OE1	30:b3:333:HIS:NE2	2.46	0.48
28:Z4:233:TYR:CG	28:Z4:311:LEU:HD22	2.49	0.48
28:Z4:531:LYS:HZ1	30:b4:166:LEU:CB	2.18	0.48
1:A1:869:ALA:N	6:D3:280:GLN:CB	2.64	0.47
1:A1:1221:ILE:HD11	2:A2:642:ARG:HB2	1.56	0.47
2:A2:971:ALA:N	6:D1:202:GLN:CG	2.76	0.47
2:A2:974:PRO:CD	6:D1:205:LEU:HB3	2.39	0.47
2:A2:1126:VAL:HG23	3:A5:132:ASP:O	2.14	0.47
2:A2:1185:THR:HG23	4:B5:342:ARG:CZ	2.44	0.47
1:A3:1091:VAL:CG2	6:D3:805:GLY:C	2.84	0.47
1:A3:1091:VAL:CG2	6:D3:808:ASN:CG	2.87	0.47
1:A3:1223:GLU:OE1	2:A4:734:LEU:HD11	2.12	0.47
2:A4:858:ALA:O	6:D3:604:ASP:OD2	2.32	0.47
3:A6:1357:GLU:HB2	28:Z4:876:LEU:O	2.14	0.47
3:A6:1414:PHE:N	28:Z4:963:LYS:CB	2.72	0.47
6:D5:445:LEU:C	6:D5:445:LEU:HD12	2.39	0.47
6:D7:176:SER:HB3	11:I3:95:LYS:CE	2.43	0.47
8:F2:1713:LEU:HD12	8:F2:1714:LEU:N	2.29	0.47
9:G1:252:LEU:HB3	17:O2:254:ARG:NH2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:850:ILE:CG2	15:M1:594:LYS:HG2	2.43	0.47
11:I1:932:VAL:CG1	15:M1:605:THR:CG2	2.91	0.47
11:I1:984:GLU:CD	15:M1:615:PRO:CA	2.81	0.47
11:I1:986:ASN:C	15:M1:612:PRO:N	2.72	0.47
11:I1:1071:LEU:HB2	16:N1:429:GLU:HG3	1.95	0.47
11:I1:1541:GLU:HA	12:J2:298:PHE:O	2.14	0.47
11:I2:895:ARG:O	17:O3:235:ASN:C	2.57	0.47
11:I2:917:TYR:N	15:M3:586:ASP:C	2.72	0.47
11:I2:1543:LEU:HD11	12:J1:300:ILE:O	2.13	0.47
11:I4:130:LYS:NZ	11:I4:237:GLU:OE1	2.45	0.47
11:I4:817:ASP:N	26:X3:498:SER:OG	2.47	0.47
11:I4:1277:LEU:CA	26:X3:517:ASP:O	2.62	0.47
11:I4:1277:LEU:C	26:X3:517:ASP:O	2.57	0.47
11:I5:535:ASP:O	25:W2:8:HIS:N	2.46	0.47
21:S3:123:LEU:HD22	21:S3:125:ILE:HG13	1.96	0.47
21:S3:690:PHE:C	21:S3:692:GLU:N	2.71	0.47
23:U3:254:ALA:O	24:V3:315:LYS:NZ	2.40	0.47
24:V1:182:ARG:HD2	24:V1:449:GLN:OE1	2.13	0.47
24:V1:431:ASN:HB2	24:V1:434:LYS:HB3	1.96	0.47
26:X1:262:ILE:HG12	26:X1:289:ILE:HG23	1.95	0.47
27:Y3:34:LYS:HG2	27:Y3:50:SER:HB2	1.95	0.47
28:Z1:447:GLU:HG3	30:b1:248:SER:HB3	1.94	0.47
28:Z3:4:LEU:HB2	28:Z3:381:SER:HB2	1.96	0.47
28:Z3:402:GLY:CA	30:b3:254:SER:HG	1.91	0.47
28:Z3:530:LYS:HB2	30:b3:185:SER:HB3	0.82	0.47
28:Z4:24:VAL:HG23	28:Z4:93:ILE:HG23	1.96	0.47
29:a2:363[A]:LEU:HD13	29:a2:364:VAL:N	2.29	0.47
30:b1:280:TRP:CE2	30:b1:305:PRO:HB3	2.49	0.47
30:b3:195:SER:HB2	30:b3:264:ASP:HA	1.96	0.47
2:A2:780:GLU:CB	6:D1:678:GLY:C	2.84	0.47
2:A2:780:GLU:HG3	6:D1:678:GLY:O	2.15	0.47
2:A2:906:ILE:CG2	2:A2:965:LYS:HG2	2.44	0.47
2:A4:781:ARG:HH22	6:D3:679:ILE:CD1	2.27	0.47
2:A4:864:ARG:HD3	6:D3:609:ILE:N	2.29	0.47
2:A4:1159:ASP:HB3	3:A6:176:LEU:O	2.14	0.47
3:A5:232:LEU:HD12	5:C2:740:ARG:O	2.12	0.47
3:A5:991:ALA:O	11:I5:57:GLU:HG3	2.15	0.47
6:D5:615:VAL:HG23	6:D5:616:ALA:N	2.29	0.47
8:F1:1568:GLN:HA	8:F1:1571:VAL:HG22	1.96	0.47
9:G2:256:GLN:CB	17:O4:261:LYS:N	2.77	0.47
9:G2:256:GLN:HG3	17:O4:259:ASP:HA	0.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:300:LEU:O	11:I1:300:LEU:HD23	2.14	0.47
11:I1:877:ILE:CB	17:O1:252:VAL:C	2.64	0.47
11:I1:922:ASP:HA	20:R1:163:LEU:CB	2.44	0.47
11:I1:935:GLY:N	15:M1:605:THR:N	2.42	0.47
11:I1:942:HIS:O	17:O1:260:LEU:CA	2.62	0.47
11:I1:950:LEU:HB3	16:N1:406:HIS:CB	2.44	0.47
11:I1:952:LEU:C	16:N1:403:VAL:CG1	2.86	0.47
11:I1:966:TRP:HE3	20:R1:167:GLN:CB	2.07	0.47
11:I1:984:GLU:HB2	15:M1:618:GLN:CG	2.37	0.47
11:I1:1045:PHE:CE2	16:N1:430:ARG:O	2.67	0.47
11:I1:1543:LEU:CD1	11:I2:1677:LYS:CE	2.74	0.47
11:I2:899:LEU:N	17:O3:235:ASN:HB2	2.29	0.47
11:I2:938:CYS:SG	15:M3:606:LEU:CG	2.99	0.47
11:I2:1029:LEU:CA	20:R3:173:LEU:CB	2.89	0.47
11:I2:1040:HIS:HD2	20:R3:170:LEU:CD2	2.26	0.47
11:I2:1045:PHE:C	17:O3:280:GLU:HA	2.37	0.47
11:I2:1110:SER:OG	16:N3:438:LEU:CD1	2.60	0.47
11:I3:300:LEU:HD23	11:I3:300:LEU:O	2.14	0.47
17:O1:85:LYS:HD2	17:O1:94:ALA:HB2	1.96	0.47
17:O4:111:TYR:HA	18:P4:325:ILE:HD12	1.95	0.47
21:S1:123:LEU:HD22	21:S1:125:ILE:HG13	1.96	0.47
21:S1:933:GLU:CD	21:S1:933:GLU:C	2.82	0.47
21:S3:964:PHE:HE1	21:S3:1002:LEU:HD22	1.78	0.47
23:U4:227:ILE:C	23:U4:229:ASN:H	2.22	0.47
24:V3:173:ILE:HD11	25:W3:43:HIS:CD2	2.50	0.47
25:W1:118:VAL:O	25:W1:125:VAL:HA	2.14	0.47
27:Y1:311:SER:O	27:Y1:319:LEU:HD12	2.13	0.47
27:Y2:159:ILE:O	27:Y2:161:PRO:HD3	2.15	0.47
27:Y3:312:TRP:CZ3	27:Y3:319:LEU:HB2	2.48	0.47
28:Z1:24:VAL:HG23	28:Z1:93:ILE:HG23	1.96	0.47
28:Z3:555:LYS:CD	30:b3:212:PHE:CE1	2.96	0.47
28:Z4:401:THR:CB	30:b4:253:SER:N	2.76	0.47
28:Z4:407:GLY:HA2	30:b4:252:ALA:H	1.79	0.47
28:Z4:556:ASN:OD1	30:b4:212:PHE:CD2	2.68	0.47
29:a1:91:ALA:HB2	29:a1:137[A]:VAL:HG13	1.96	0.47
30:b1:40:ILE:HG23	30:b1:73:LEU:HD11	1.96	0.47
30:b4:195:SER:OG	30:b4:263:SER:O	2.26	0.47
1:A1:1332:ARG:NH2	6:D1:685:VAL:CB	2.71	0.47
2:A2:1277:TRP:N	2:A2:1278:PRO:CD	2.78	0.47
1:A3:1052:THR:HG22	6:D3:813:GLN:C	2.40	0.47
1:A3:1055:ARG:NH2	1:A3:1058:GLU:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:781:ARG:NH2	6:D3:679:ILE:CD1	2.77	0.47
3:A5:1024:ASP:O	11:I5:68:ILE:HG13	2.14	0.47
3:A5:1392:ARG:HH11	28:Z2:866:GLU:CB	2.27	0.47
3:A5:1408:GLU:HB2	28:Z2:917:ASP:HA	1.95	0.47
3:A6:1312:ARG:NH1	28:Z4:842:LEU:N	2.61	0.47
3:A6:1358:LEU:HD23	28:Z4:878:HIS:H	1.75	0.47
3:A6:1388:ALA:CA	28:Z4:865:LYS:N	2.77	0.47
3:A6:1390:LEU:CD1	28:Z4:867:LYS:HA	2.43	0.47
6:D4:445:LEU:C	6:D4:445:LEU:HD12	2.39	0.47
11:I1:288:ILE:O	11:I1:292:GLY:N	2.46	0.47
11:I1:888:GLU:O	17:O1:239:GLN:NE2	2.47	0.47
11:I1:984:GLU:HB3	15:M1:618:GLN:CD	2.39	0.47
11:I1:987:GLY:N	15:M1:614:ASP:N	2.63	0.47
11:I1:1020:ALA:HA	16:N1:405:ALA:CA	2.33	0.47
11:I1:1366:ARG:HD2	12:J1:256:GLN:NE2	2.30	0.47
11:I1:1543:LEU:CD1	11:I2:1677:LYS:NZ	2.76	0.47
11:I1:1603:ARG:CB	11:I2:1738:TYR:O	2.56	0.47
11:I2:300:LEU:HD23	11:I2:300:LEU:O	2.14	0.47
11:I2:895:ARG:NH1	16:N3:386:MET:CG	2.56	0.47
11:I2:915:ALA:N	15:M3:587:GLU:H	2.01	0.47
11:I2:922:ASP:HA	20:R3:163:LEU:HB3	1.96	0.47
11:I2:942:HIS:N	17:O3:263:GLN:N	2.41	0.47
11:I2:1366:ARG:HD2	12:J2:256:GLN:NE2	2.30	0.47
11:I3:1275:SER:CB	26:X1:508:LEU:CG	2.92	0.47
17:O4:109:PRO:CD	18:P4:318:PRO:HB3	2.44	0.47
18:P1:311:MET:HE3	18:P1:313:GLN:OE1	2.14	0.47
18:P2:311:MET:HE3	18:P2:313:GLN:OE1	2.14	0.47
23:U1:86:ASN:C	23:U1:88:ASP:H	2.23	0.47
23:U2:227:ILE:C	23:U2:229:ASN:H	2.22	0.47
24:V1:173:ILE:HD11	25:W1:43:HIS:CD2	2.49	0.47
25:W4:38:VAL:O	25:W4:39:GLU:HG3	2.14	0.47
26:X1:64:LYS:HD3	27:Y1:324:ASP:HB3	1.95	0.47
26:X2:417:ALA:HB1	26:X2:465:MET:HE1	1.96	0.47
27:Y2:30:ASP:OD1	27:Y2:32:HIS:HB2	2.13	0.47
28:Z1:541:PRO:HD2	28:Z1:544:MET:HE2	1.96	0.47
28:Z1:555:LYS:HA	30:b1:212:PHE:HA	1.88	0.47
28:Z2:233:TYR:CG	28:Z2:311:LEU:HD22	2.49	0.47
28:Z4:160:VAL:HG23	28:Z4:161:ARG:N	2.29	0.47
28:Z4:532:PHE:N	30:b4:184:SER:CA	2.77	0.47
28:Z4:541:PRO:HD3	30:b4:165:THR:HG21	1.95	0.47
28:Z4:560:ASN:HD22	30:b4:211:ILE:CG2	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b1:130:LYS:O	30:b1:134:HIS:NE2	2.41	0.47
30:b3:279:ARG:HB3	30:b3:307:VAL:HG12	1.95	0.47
2:A2:1304:GLU:O	2:A2:1305:ALA:C	2.58	0.47
2:A4:908:LEU:CD2	6:D3:601:PHE:CA	2.91	0.47
2:A4:975:GLU:CA	6:D3:501:LEU:HD12	2.37	0.47
3:A5:1098:ARG:HD2	11:I5:29:GLN:CG	2.25	0.47
3:A5:1368:GLN:HG2	28:Z2:828:LEU:CB	2.45	0.47
6:D2:615:VAL:HG23	6:D2:616:ALA:N	2.29	0.47
6:D7:528:PHE:C	11:I3:181:GLN:HE21	2.06	0.47
11:I1:836:VAL:CG1	17:O1:244:GLU:HB3	2.41	0.47
11:I1:925:LEU:CD1	15:M1:593:ALA:CB	2.93	0.47
11:I1:1020:ALA:CB	16:N1:406:HIS:O	2.63	0.47
11:I1:1043:LEU:HD23	16:N1:430:ARG:HB3	1.96	0.47
11:I2:797:LEU:HD11	17:O3:244:GLU:C	2.39	0.47
11:I2:840:LEU:HB3	17:O3:247:TRP:NE1	2.23	0.47
11:I2:881:ILE:HD12	17:O3:253:LEU:H	1.79	0.47
11:I2:954:GLU:OE1	16:N3:406:HIS:HB2	2.15	0.47
11:I4:1051:LYS:C	11:I4:1052:LEU:HD12	2.39	0.47
11:I4:1274:HIS:HB3	26:X3:508:LEU:HD22	1.95	0.47
11:I5:1366:ARG:HD2	12:J5:256:GLN:NE2	2.30	0.47
21:S3:924:GLN:HA	21:S3:927:ASN:CB	2.45	0.47
23:U1:431:ILE:HD12	23:U1:431:ILE:N	2.30	0.47
23:U4:8:GLN:O	23:U4:10:GLU:N	2.48	0.47
23:U4:159:ASP:OD2	24:V4:319:LEU:N	2.29	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
28:Z1:4:LEU:HB2	28:Z1:381:SER:HB2	1.96	0.47
28:Z4:4:LEU:HB2	28:Z4:381:SER:HB2	1.96	0.47
28:Z4:102:MET:HE3	28:Z4:163:PRO:HD2	1.95	0.47
28:Z4:447:GLU:HG3	30:b4:248:SER:HB3	1.94	0.47
28:Z4:541:PRO:HD2	28:Z4:544:MET:HE2	1.96	0.47
28:Z4:739:PHE:O	28:Z4:743:ASN:N	2.36	0.47
30:b4:39:GLY:HA2	30:b4:66:THR:OG1	2.15	0.47
1:A1:870:HIS:CA	6:D3:279:HIS:CG	2.94	0.47
2:A2:226:PRO:CD	6:D1:708:ASP:HB3	2.40	0.47
2:A2:781:ARG:CA	6:D1:673:ARG:O	2.62	0.47
2:A2:980:ARG:N	6:D1:473:GLU:OE2	2.48	0.47
1:A3:1196:GLU:O	2:A4:729:SER:HB2	1.77	0.47
2:A4:1148:ARG:HH12	3:A6:167:TRP:NE1	2.13	0.47
3:A6:190:ALA:HB2	5:C4:748:ASN:CG	2.39	0.47
3:A6:1387:ILE:CA	28:Z4:867:LYS:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1398:LYS:C	28:Z4:886:LEU:O	2.57	0.47
6:D7:192:TYR:OH	6:D7:498:GLU:OE1	2.33	0.47
8:F1:1138:TRP:N	17:O2:244:GLU:C	2.72	0.47
9:G1:255:LEU:CD1	17:O2:257:ALA:HB3	2.13	0.47
11:I1:877:ILE:HG13	17:O1:251:ILE:HA	1.23	0.47
11:I1:883:ALA:HB3	17:O1:243:LEU:O	1.95	0.47
11:I1:987:GLY:N	15:M1:613:ASP:CB	2.77	0.47
11:I1:1066:LEU:C	16:N1:429:GLU:HB2	2.38	0.47
11:I1:1101:LEU:HD23	16:N1:432:TYR:CE1	2.48	0.47
11:I1:1103:LEU:O	16:N1:440:GLU:OE1	2.31	0.47
11:I1:1602:PHE:CD1	11:I2:1666:THR:CG2	2.92	0.47
11:I2:886:LEU:HB3	17:O3:242:ARG:HA	1.96	0.47
11:I2:895:ARG:N	17:O3:239:GLN:CG	2.71	0.47
11:I2:936:LYS:HE3	15:M3:612:PRO:HG2	1.97	0.47
11:I2:967:SER:CB	15:M3:625:GLY:N	2.73	0.47
11:I2:1608:SER:O	12:J1:299:GLY:CA	2.62	0.47
11:I3:1083:GLU:OE1	11:I3:1083:GLU:N	2.42	0.47
11:I4:1015:TYR:OH	11:I4:1089:TYR:O	2.32	0.47
11:I4:1272:TYR:N	26:X3:524:SER:O	2.45	0.47
11:I4:1277:LEU:HA	26:X3:519:ILE:CA	2.44	0.47
17:O3:85:LYS:HD2	17:O3:94:ALA:HB2	1.96	0.47
17:O3:147:ALA:CB	18:P3:328:PRO:HG3	2.34	0.47
17:O3:151:LEU:HD23	18:P3:325:ILE:CD1	2.10	0.47
21:S4:123:LEU:HD22	21:S4:125:ILE:HG13	1.96	0.47
21:S4:382:MET:HB3	21:S4:382:MET:HE2	1.63	0.47
21:S4:968:LYS:HB3	21:S4:968:LYS:HE2	1.65	0.47
22:T1:829:MET:O	22:T1:846:MET:HE2	2.14	0.47
22:T4:885:ARG:CG	22:T4:885:ARG:NH1	2.73	0.47
24:V2:492:LEU:HD12	24:V2:508:ILE:HD13	1.96	0.47
24:V3:270:THR:OG1	24:V3:391:CYS:SG	2.72	0.47
24:V3:317:GLY:O	24:V3:320:SER:HB3	2.13	0.47
24:V4:173:ILE:H	24:V4:173:ILE:HD12	1.78	0.47
24:V4:173:ILE:HD11	25:W4:43:HIS:CD2	2.50	0.47
25:W4:118:VAL:O	25:W4:125:VAL:HA	2.13	0.47
27:Y1:42:THR:HG22	29:a1:248:ARG:HD2	1.97	0.47
27:Y1:159:ILE:O	27:Y1:161:PRO:HD3	2.15	0.47
27:Y3:77:TYR:HA	27:Y3:110:SER:HB3	1.95	0.47
27:Y3:196:ARG:HH11	27:Y3:202:LEU:HD21	1.79	0.47
28:Z1:523:ASP:OD1	30:b1:239:THR:OG1	2.32	0.47
28:Z1:561:GLN:HG3	30:b1:236:THR:C	2.39	0.47
28:Z1:967:PHE:HA	28:Z1:978:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:4:LEU:HB2	28:Z2:381:SER:HB2	1.96	0.47
28:Z3:233:TYR:CG	28:Z3:311:LEU:HD22	2.49	0.47
28:Z4:736:ASN:C	28:Z4:738:ARG:H	2.21	0.47
29:a3:363[A]:LEU:HD13	29:a3:364:VAL:N	2.29	0.47
1:A1:1221:ILE:CB	2:A2:642:ARG:O	2.60	0.47
2:A2:909:LYS:NZ	6:D1:197:VAL:CG2	2.77	0.47
2:A2:926:ASP:OD1	2:A2:929:ASN:N	2.48	0.47
2:A2:1126:VAL:HG13	3:A5:139:ASN:H	1.79	0.47
2:A2:1243:SER:C	2:A2:1245:ASP:H	2.22	0.47
2:A4:879:LEU:HG	6:D3:567:LEU:CG	2.44	0.47
2:A4:975:GLU:C	6:D3:496:LEU:CB	2.73	0.47
2:A4:1277:TRP:N	2:A4:1278:PRO:CD	2.78	0.47
3:A5:1021:LEU:CA	11:I5:95:LYS:HZ3	2.28	0.47
3:A5:1312:ARG:NH2	28:Z2:838:GLN:CA	2.72	0.47
3:A6:1312:ARG:N	28:Z4:830:LEU:CB	2.76	0.47
3:A6:1372:THR:HG22	28:Z4:823:ALA:HB1	1.61	0.47
6:D3:639:LEU:HD22	6:D3:689:PHE:CD2	2.50	0.47
6:D6:615:VAL:HG23	6:D6:616:ALA:N	2.29	0.47
8:F2:984:ALA:O	8:F2:988:ARG:NH1	2.48	0.47
8:F2:1775:VAL:O	8:F2:1776:THR:HG22	2.15	0.47
11:I1:1043:LEU:H	20:R1:170:LEU:HD11	1.80	0.47
11:I1:1055:GLU:CD	17:O1:280:GLU:HB2	2.38	0.47
11:I1:1186:PRO:HG2	17:O2:221:ASP:OD1	2.08	0.47
11:I1:1665:LEU:HD23	11:I2:1667:GLN:C	2.32	0.47
11:I2:1021:ILE:HG13	16:N3:410:MET:HE3	1.88	0.47
11:I2:1107:SER:O	16:N3:439:ARG:HG2	2.14	0.47
11:I3:1271:GLU:OE1	26:X1:504:ILE:CB	2.56	0.47
11:I4:1366:ARG:HD2	12:J4:256:GLN:NE2	2.30	0.47
17:O2:85:LYS:HD2	17:O2:94:ALA:HB2	1.96	0.47
21:S1:690:PHE:C	21:S1:692:GLU:N	2.70	0.47
21:S4:992:ILE:HG12	21:S4:992:ILE:O	2.13	0.47
23:U2:86:ASN:C	23:U2:88:ASP:H	2.23	0.47
23:U3:293:ILE:HD11	23:U3:327:VAL:HG21	1.97	0.47
23:U4:431:ILE:HD12	23:U4:431:ILE:N	2.30	0.47
24:V1:151:PHE:HB2	25:W1:259:ARG:NH1	2.30	0.47
24:V2:151:PHE:HB2	25:W2:259:ARG:NH1	2.30	0.47
24:V2:173:ILE:HD11	25:W2:43:HIS:CD2	2.49	0.47
24:V3:151:PHE:HB2	25:W3:259:ARG:NH1	2.30	0.47
25:W1:12:ILE:HG23	25:W1:27:CYS:O	2.15	0.47
25:W1:227:GLN:OE1	25:W1:256:VAL:HG11	2.15	0.47
25:W2:12:ILE:HA	25:W2:28:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y2:34:LYS:HG2	27:Y2:50:SER:HB2	1.95	0.47
28:Z1:24:VAL:HG11	28:Z1:143:ASN:HA	1.95	0.47
28:Z3:556:ASN:OD1	30:b3:212:PHE:CD2	2.67	0.47
28:Z4:160:VAL:HG23	28:Z4:161:ARG:H	1.79	0.47
28:Z4:561:GLN:CB	30:b4:236:THR:H	1.96	0.47
28:Z4:561:GLN:HG3	30:b4:236:THR:C	2.40	0.47
29:a3:240:GLY:O	29:a3:259:ALA:HB3	2.15	0.47
30:b2:279:ARG:HB3	30:b2:307:VAL:HG12	1.96	0.47
2:A2:224:PRO:CD	6:D1:709:ARG:NH1	2.68	0.47
2:A2:970:PHE:HD1	6:D1:196:ILE:HD12	1.66	0.47
1:A3:1087:GLY:C	6:D3:796:ALA:O	2.55	0.47
2:A4:825:ARG:NH1	2:A4:826:ASN:OD1	2.42	0.47
2:A4:906:ILE:CG2	2:A4:965:LYS:HG2	2.44	0.47
2:A4:1055:ARG:HG2	6:D4:762:ARG:HA	1.95	0.47
2:A4:1118:GLN:CG	3:A6:132:ASP:OD2	2.57	0.47
2:A4:1136:LYS:NZ	3:A6:139:ASN:O	2.47	0.47
2:A4:1141:GLU:CB	3:A6:130:ILE:CD1	2.41	0.47
2:A4:1150:LEU:CG	5:C4:731:LYS:HA	2.41	0.47
2:A4:1152:ASP:OD2	3:A6:174:PRO:HD3	2.02	0.47
2:A4:1243:SER:C	2:A4:1245:ASP:H	2.22	0.47
3:A5:1098:ARG:CD	11:I5:29:GLN:HG3	2.33	0.47
3:A5:1135:ARG:HG2	5:C5:743:LEU:O	2.15	0.47
3:A5:1372:THR:N	28:Z2:828:LEU:H	2.12	0.47
3:A6:153:ILE:HD12	5:C4:739:MET:CB	2.43	0.47
3:A6:155:TYR:HE1	5:C4:739:MET:HE2	1.73	0.47
3:A6:220:VAL:HA	5:C4:738:ASP:O	2.14	0.47
3:A6:1414:PHE:HB2	28:Z4:964:LEU:HA	1.96	0.47
6:D1:192:TYR:OH	6:D1:498:GLU:OE1	2.33	0.47
8:F1:1262:HIS:HB3	17:O2:262:ASP:OD1	2.15	0.47
8:F1:1267:ARG:HH22	17:O2:268:GLY:CA	2.28	0.47
8:F1:1267:ARG:HH22	17:O2:268:GLY:HA2	1.80	0.47
8:F1:1570:GLN:O	8:F1:1573:ASN:ND2	2.48	0.47
8:F2:1568:GLN:HA	8:F2:1571:VAL:HG22	1.96	0.47
8:F2:1570:GLN:O	8:F2:1573:ASN:ND2	2.48	0.47
11:I1:931:VAL:CB	15:M1:604:ASN:OD1	2.61	0.47
11:I1:932:VAL:HG12	15:M1:605:THR:CG2	2.35	0.47
11:I1:947:LEU:O	16:N1:407:ALA:CB	2.57	0.47
11:I1:951:LYS:HB3	17:O1:253:LEU:CG	2.44	0.47
11:I1:978:LYS:HG3	20:R1:150:ASN:O	2.12	0.47
11:I1:1108:PRO:CD	16:N1:440:GLU:CG	2.91	0.47
11:I2:816:ASP:OD1	11:I2:817:ASP:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:847:THR:CG2	15:M3:594:LYS:NZ	2.65	0.47
11:I2:898:VAL:HB	17:O3:236:ASP:HA	1.70	0.47
11:I2:919:ALA:HB2	16:N3:389:PHE:HA	1.97	0.47
11:I2:942:HIS:ND1	17:O3:259:ASP:HA	2.30	0.47
11:I2:980:ILE:HB	15:M3:618:GLN:HG2	1.90	0.47
11:I2:1037:THR:HG1	15:M3:620:VAL:CG1	2.27	0.47
11:I2:1038:ILE:CD1	20:R3:167:GLN:OE1	2.61	0.47
11:I2:1043:LEU:HD13	16:N3:434:LEU:H	1.79	0.47
11:I3:815:ILE:CG2	26:X1:497:ARG:CB	2.89	0.47
11:I3:1276:GLN:O	26:X1:522:MET:SD	2.73	0.47
11:I4:656:MET:O	11:I4:659:LYS:NZ	2.44	0.47
11:I5:1015:TYR:OH	11:I5:1089:TYR:O	2.31	0.47
17:O4:85:LYS:HD2	17:O4:94:ALA:HB2	1.96	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:HD13	2.44	0.47
21:S1:1075:CYS:HA	21:S1:1078:LEU:HD12	1.96	0.47
21:S4:176:MET:CE	21:S4:232:LEU:HD12	2.41	0.47
22:T4:687:GLU:O	22:T4:691:GLN:HG3	2.15	0.47
23:U1:222:VAL:O	24:V1:256:VAL:HG13	2.15	0.47
23:U1:293:ILE:HD11	23:U1:327:VAL:HG21	1.97	0.47
23:U3:222:VAL:O	24:V3:256:VAL:HG13	2.15	0.47
23:U4:86:ASN:C	23:U4:88:ASP:H	2.23	0.47
23:U4:222:VAL:O	24:V4:256:VAL:HG13	2.15	0.47
24:V1:492:LEU:HD12	24:V1:508:ILE:HD13	1.96	0.47
24:V2:431:ASN:HB2	24:V2:434:LYS:HB3	1.96	0.47
25:W3:12:ILE:HA	25:W3:28:SER:HA	1.96	0.47
26:X1:390:TRP:C	26:X1:393:PRO:HD2	2.39	0.47
26:X3:226:GLN:O	26:X3:230:VAL:HG23	2.15	0.47
26:X4:392:GLN:HB3	26:X4:393:PRO:HD3	1.96	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	1.97	0.47
27:Y3:312:TRP:CE2	27:Y3:319:LEU:HD13	2.50	0.47
27:Y4:140:LEU:O	27:Y4:142:PRO:HD3	2.15	0.47
27:Y4:236:LYS:HG3	27:Y4:306:GLU:OE1	2.15	0.47
28:Z1:285:ASN:OD1	28:Z1:285:ASN:N	2.48	0.47
28:Z1:401:THR:CB	30:b1:253:SER:N	2.76	0.47
28:Z1:407:GLY:HA2	30:b1:252:ALA:H	1.79	0.47
28:Z1:524:VAL:HG11	30:b1:236:THR:HB	1.88	0.47
28:Z1:561:GLN:CB	30:b1:236:THR:H	1.96	0.47
28:Z2:407:GLY:HA2	30:b2:252:ALA:H	1.79	0.47
28:Z2:522:ASN:HB2	30:b2:240:LEU:HB3	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:523:ASP:OD1	30:b3:239:THR:OG1	2.32	0.47
28:Z3:541:PRO:CG	30:b3:180:GLY:HA3	2.44	0.47
28:Z3:570:LEU:O	28:Z3:574:LEU:HB2	2.15	0.47
28:Z4:163:PRO:HA	28:Z4:178:LEU:HA	1.95	0.47
30:b1:143:ALA:HB2	30:b1:192:PHE:HD2	1.80	0.47
30:b1:244:ASN:HB3	30:b1:246:CYS:SG	2.55	0.47
30:b2:216:LEU:HD12	30:b2:216:LEU:HA	1.78	0.47
30:b4:195:SER:HB2	30:b4:264:ASP:HA	1.96	0.47
1:A1:1204:TRP:CZ3	2:A2:734:LEU:HD12	2.43	0.47
2:A2:874:VAL:CG1	6:D1:611:LYS:HB2	2.24	0.47
2:A2:876:ARG:NH1	6:D1:562:GLY:N	2.62	0.47
1:A3:1099:GLN:HG3	11:I2:1414:CYS:SG	2.55	0.47
2:A4:980:ARG:CB	6:D3:526:LEU:HB2	2.45	0.47
3:A5:165:PHE:N	5:C2:743:LEU:C	2.70	0.47
3:A5:1407:GLY:N	28:Z2:917:ASP:O	2.47	0.47
4:B6:345:LYS:O	5:C4:737:LYS:CE	2.63	0.47
6:D1:422:CYS:SG	6:D1:423:PHE:N	2.88	0.47
6:D6:639:LEU:HD22	6:D6:689:PHE:CD2	2.50	0.47
6:D7:615:VAL:HG23	6:D7:616:ALA:N	2.29	0.47
8:F1:511:ALA:O	8:F1:1008:TYR:N	2.43	0.47
8:F2:1089:PRO:O	17:O4:245:GLU:C	2.58	0.47
9:G1:256:GLN:N	17:O2:257:ALA:HB3	2.18	0.47
11:I1:841:PHE:CE2	17:O1:243:LEU:CG	2.95	0.47
11:I1:913:ALA:HB3	15:M1:584:GLN:CG	2.45	0.47
11:I1:962:ILE:HG23	20:R1:166:LEU:O	2.15	0.47
11:I1:978:LYS:HB2	20:R1:154:ALA:HB3	1.96	0.47
11:I1:1071:LEU:CB	16:N1:429:GLU:HG3	2.45	0.47
11:I1:1635:HIS:HD2	11:I2:1674:HIS:HD2	1.63	0.47
11:I1:1639:LEU:HD22	11:I2:1670:GLY:HA2	1.96	0.47
11:I2:828:VAL:O	17:O3:237:PRO:HB3	2.13	0.47
11:I2:953:LEU:HD12	15:M3:606:LEU:CB	2.22	0.47
11:I3:1051:LYS:C	11:I3:1052:LEU:HD12	2.40	0.47
11:I3:1274:HIS:CB	26:X1:534:ILE:CG2	2.92	0.47
11:I3:1370:VAL:CG2	12:J3:259:THR:HG21	2.41	0.47
11:I5:300:LEU:O	11:I5:300:LEU:HD23	2.14	0.47
21:S1:924:GLN:HA	21:S1:927:ASN:CB	2.45	0.47
21:S4:924:GLN:HA	21:S4:927:ASN:CB	2.45	0.47
21:S4:1075:CYS:HA	21:S4:1078:LEU:HD12	1.96	0.47
22:T2:687:GLU:O	22:T2:691:GLN:HG3	2.15	0.47
23:U2:293:ILE:HD11	23:U2:327:VAL:HG21	1.97	0.47
26:X1:226:GLN:O	26:X1:230:VAL:HG23	2.15	0.47

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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	0.47
26:X2:223:TYR:HA	26:X2:226:GLN:HB2	1.96	0.47
26:X3:239:VAL:HB	26:X3:240:PHE:H	1.59	0.47
26:X4:223:TYR:HA	26:X4:226:GLN:HB2	1.96	0.47
28:Z2:247:ASP:O	28:Z2:251:PHE:N	2.47	0.47
28:Z2:530:LYS:HB2	30:b2:185:SER:HB3	0.82	0.47
28:Z2:559:GLU:O	30:b2:211:ILE:HB	2.15	0.47
28:Z3:526:ARG:CB	30:b3:206:ASN:CB	2.66	0.47
28:Z3:531:LYS:CD	30:b3:183:LEU:N	2.63	0.47
28:Z3:531:LYS:CG	30:b3:182:PRO:O	2.61	0.47
28:Z3:554:PHE:HD1	30:b3:232:PRO:HB2	1.71	0.47
28:Z4:24:VAL:HG11	28:Z4:143:ASN:HA	1.95	0.47
30:b2:143:ALA:HB2	30:b2:192:PHE:HD2	1.80	0.47
1:A1:874:VAL:HG11	6:D3:272:VAL:HA	1.93	0.47
1:A1:1052:THR:HA	6:D1:812:VAL:HG12	1.97	0.47
2:A4:276:GLN:NE2	4:B4:355:PRO:CD	2.78	0.47
2:A4:870:HIS:CE1	6:D3:566:PHE:CA	2.93	0.47
2:A4:876:ARG:CZ	6:D3:563:GLU:O	2.63	0.47
2:A4:1125:LEU:HG	3:A6:136:GLU:HB2	1.96	0.47
2:A4:1161:ALA:CB	3:A6:165:PHE:HZ	1.96	0.47
2:A4:1341:ALA:O	2:A4:1342:SER:CB	2.63	0.47
3:A5:1398:LYS:HB3	28:Z2:873:LEU:C	2.37	0.47
3:A6:1135:ARG:HG2	5:C6:743:LEU:O	2.15	0.47
6:D1:639:LEU:HD22	6:D1:689:PHE:CD2	2.50	0.47
6:D4:440:PHE:CE1	6:D4:444:LEU:HD11	2.50	0.47
8:F1:1775:VAL:O	8:F1:1776:THR:HG22	2.14	0.47
11:I1:842:ASN:O	15:M1:591:ASP:HB2	2.15	0.47
11:I1:1029:LEU:CD2	20:R1:174:ARG:HG3	2.25	0.47
11:I1:1049:LEU:HD23	20:R1:146:LEU:HD21	1.90	0.47
11:I1:1051:LYS:CA	17:O1:290:TYR:CD2	2.98	0.47
11:I1:1664:PHE:HZ	11:I2:1669:ARG:C	2.10	0.47
11:I2:834:SER:CB	17:O3:237:PRO:C	2.68	0.47
11:I2:899:LEU:HG	17:O3:235:ASN:HB2	1.97	0.47
11:I2:950:LEU:HD13	16:N3:410:MET:HB2	1.10	0.47
11:I2:1068:HIS:CE1	16:N3:431:VAL:HG21	2.50	0.47
11:I2:1185:ILE:HA	17:O4:221:ASP:OD2	2.15	0.47
11:I3:1275:SER:HB3	26:X1:522:MET:HA	0.80	0.47
21:S1:964:PHE:HE1	21:S1:1002:LEU:HD22	1.78	0.47
21:S3:680:PRO:O	21:S3:681:SER:C	2.56	0.47
21:S3:1120:PRO:CD	21:S3:1155:GLN:HE22	2.19	0.47
23:U3:86:ASN:OD1	23:U3:400:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U3:86:ASN:C	23:U3:88:ASP:H	2.23	0.47
23:U4:86:ASN:OD1	23:U4:400:ASN:ND2	2.48	0.47
24:V2:360:LYS:HG3	24:V2:366:PRO:HA	1.97	0.47
25:W3:118:VAL:O	25:W3:125:VAL:HA	2.14	0.47
25:W4:12:ILE:HG23	25:W4:27:CYS:O	2.15	0.47
25:W4:227:GLN:OE1	25:W4:256:VAL:HG11	2.15	0.47
26:X1:249:LEU:O	26:X1:253:VAL:HG23	2.15	0.47
26:X4:226:GLN:O	26:X4:230:VAL:HG23	2.15	0.47
28:Z1:556:ASN:OD1	30:b1:202:VAL:CG2	2.63	0.47
28:Z1:556:ASN:OD1	30:b1:212:PHE:CD2	2.68	0.47
28:Z1:561:GLN:CB	30:b1:235:LEU:C	2.61	0.47
28:Z2:739:PHE:O	28:Z2:743:ASN:N	2.36	0.47
28:Z3:438:GLU:HB3	30:b3:314:PRO:HD2	1.93	0.47
28:Z3:558:LEU:O	30:b3:234:LEU:O	2.29	0.47
28:Z3:561:GLN:CG	30:b3:235:LEU:HD23	2.35	0.47
28:Z4:551:THR:HB	30:b4:233:TRP:HH2	1.17	0.47
29:a1:240:GLY:O	29:a1:259:ALA:HB3	2.15	0.47
30:b1:39:GLY:HA2	30:b1:66:THR:OG1	2.15	0.47
30:b1:279:ARG:HB3	30:b1:307:VAL:HG12	1.96	0.47
30:b3:143:ALA:HB2	30:b3:192:PHE:HD2	1.80	0.47
30:b4:143:ALA:HB2	30:b4:192:PHE:HD2	1.80	0.47
30:b4:244:ASN:HB3	30:b4:246:CYS:SG	2.55	0.47
1:A1:1229:VAL:CB	2:A2:725:GLU:HB3	2.45	0.47
2:A2:1153:LEU:CA	3:A5:174:PRO:C	2.87	0.47
2:A2:1156:ASP:O	3:A5:176:LEU:HD23	2.15	0.47
2:A4:926:ASP:OD1	2:A4:929:ASN:N	2.48	0.47
2:A4:981:PRO:CD	6:D3:473:GLU:OE2	2.61	0.47
2:A4:1143:LEU:N	3:A6:135:PHE:CE2	2.83	0.47
3:A5:232:LEU:H	5:C2:740:ARG:HD3	1.73	0.47
3:A5:1392:ARG:HG3	28:Z2:867:LYS:N	2.30	0.47
3:A6:1361:ARG:N	28:Z4:872:TYR:C	2.73	0.47
3:A6:1406:GLY:N	28:Z4:922:LEU:C	2.73	0.47
6:D4:422:CYS:SG	6:D4:423:PHE:N	2.88	0.47
6:D7:440:PHE:CE1	6:D7:444:LEU:HD11	2.50	0.47
9:G1:258:LYS:CA	17:O2:253:LEU:CD2	2.75	0.47
11:I1:1665:LEU:CA	11:I2:1668:HIS:N	2.73	0.47
11:I1:1671:LEU:HD13	11:I2:1675:VAL:HG23	1.96	0.47
11:I2:931:VAL:CB	15:M3:600:ASN:C	2.66	0.47
11:I2:1018:LYS:HD2	16:N3:413:VAL:HA	1.49	0.47
11:I3:775:ASP:OD2	29:a2:39:ASN:HB3	2.15	0.47
11:I3:1270:LYS:HE2	26:X1:530:ARG:CD	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:775:ASP:CG	29:a4:40[A]:GLU:OE2	2.58	0.47
11:I4:816:ASP:OD1	11:I4:817:ASP:N	2.42	0.47
17:O1:162:LYS:HZ1	18:P1:318:PRO:HG3	1.79	0.47
17:O3:148:ARG:HH11	18:P3:325:ILE:C	2.21	0.47
17:O4:108:VAL:N	17:O4:109:PRO:CD	2.78	0.47
21:S2:924:GLN:HA	21:S2:927:ASN:CB	2.45	0.47
23:U3:431:ILE:H	23:U3:431:ILE:CD1	2.28	0.47
23:U4:431:ILE:H	23:U4:431:ILE:CD1	2.28	0.47
24:V2:156:THR:HG22	24:V2:514:ARG:CD	2.45	0.47
24:V3:304:VAL:HG13	24:V3:323:ILE:HG22	1.97	0.47
24:V3:431:ASN:HB2	24:V3:434:LYS:HB3	1.96	0.47
24:V3:433:GLU:OE1	24:V3:467:SER:OG	2.20	0.47
26:X3:223:TYR:HA	26:X3:226:GLN:HB2	1.96	0.47
26:X3:249:LEU:O	26:X3:253:VAL:HG23	2.15	0.47
27:Y3:41:ASP:HB2	29:a3:231[B]:HIS:HE1	1.64	0.47
27:Y4:312:TRP:CE2	27:Y4:319:LEU:HD13	2.50	0.47
28:Z1:541:PRO:CG	30:b1:180:GLY:HA3	2.44	0.47
28:Z2:402:GLY:HA2	30:b2:254:SER:OG	1.98	0.47
28:Z2:556:ASN:OD1	30:b2:212:PHE:CD2	2.68	0.47
28:Z2:558:LEU:O	30:b2:234:LEU:O	2.29	0.47
28:Z3:772:GLN:CB	30:b3:136:PHE:CE1	2.95	0.47
28:Z4:531:LYS:NZ	30:b4:166:LEU:HB2	2.20	0.47
29:a1:363[A]:LEU:HD13	29:a1:364:VAL:N	2.29	0.47
30:b4:279:ARG:HB3	30:b4:307:VAL:HG12	1.96	0.47
2:A2:200:VAL:HG23	4:B2:351:GLU:O	2.11	0.46
2:A2:827:ILE:CD1	2:A2:859:GLN:H	2.26	0.46
2:A2:904:GLN:CB	6:D1:603:SER:H	2.28	0.46
2:A2:1121:LEU:CB	3:A5:133:LYS:CG	2.69	0.46
2:A2:1124:ARG:C	3:A5:136:GLU:HB3	2.37	0.46
2:A2:1160:GLN:HB3	5:C2:743:LEU:HD22	1.96	0.46
2:A2:1185:THR:CG2	4:B5:342:ARG:NH1	2.78	0.46
2:A4:985:ALA:HB3	6:D3:496:LEU:O	2.13	0.46
3:A5:1019:ARG:HG2	11:I5:54:LYS:NZ	2.31	0.46
3:A6:1405:LEU:CD2	28:Z4:921:THR:CB	2.93	0.46
6:D2:422:CYS:SG	6:D2:423:PHE:N	2.88	0.46
6:D5:639:LEU:HD22	6:D5:689:PHE:CD2	2.50	0.46
8:F1:302:PRO:O	8:F1:355:ARG:NE	2.49	0.46
8:F1:1266:MET:N	17:O2:262:ASP:CB	2.76	0.46
11:I1:816:ASP:OD1	11:I1:817:ASP:N	2.42	0.46
11:I1:837:MET:HG3	17:O1:238:ALA:C	2.38	0.46
11:I1:934:LEU:C	15:M1:606:LEU:HB2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:938:CYS:HB2	15:M1:606:LEU:O	2.15	0.46
11:I1:980:ILE:CB	15:M1:617:THR:O	2.63	0.46
11:I1:1016:ARG:C	16:N1:411:GLN:CG	2.75	0.46
11:I1:1018:LYS:H	16:N1:412:ASN:CB	2.28	0.46
11:I1:1663:LYS:HZ3	11:I2:1663:LYS:CB	2.28	0.46
11:I3:1366:ARG:HD2	12:J3:256:GLN:NE2	2.30	0.46
17:O2:110:LEU:HG	18:P2:322:LYS:HA	1.95	0.46
18:P3:311:MET:HE3	18:P3:313:GLN:OE1	2.14	0.46
21:S1:352:LEU:O	21:S1:374:THR:HA	2.15	0.46
21:S1:1052:LEU:C	21:S1:1055:LEU:HD23	2.41	0.46
21:S2:123:LEU:HD22	21:S2:125:ILE:HG13	1.96	0.46
21:S3:1052:LEU:C	21:S3:1055:LEU:HD23	2.41	0.46
21:S4:975:LYS:HD3	22:T4:882:SER:HB2	1.97	0.46
21:S4:1052:LEU:C	21:S4:1055:LEU:HD23	2.40	0.46
21:S4:1070:LYS:HZ3	21:S4:1121:GLU:HB3	1.80	0.46
23:U1:86:ASN:OD1	23:U1:400:ASN:ND2	2.48	0.46
23:U3:8:GLN:O	23:U3:10:GLU:N	2.48	0.46
24:V2:304:VAL:HG13	24:V2:323:ILE:HG22	1.97	0.46
24:V4:431:ASN:HB2	24:V4:434:LYS:HB3	1.96	0.46
24:V4:492:LEU:HD12	24:V4:508:ILE:HD13	1.96	0.46
25:W3:227:GLN:OE1	25:W3:256:VAL:HG11	2.15	0.46
26:X1:223:TYR:HA	26:X1:226:GLN:HB2	1.96	0.46
26:X4:152:LEU:HD22	26:X4:179:LEU:HD12	1.97	0.46
27:Y3:159:ILE:O	27:Y3:161:PRO:HD3	2.15	0.46
28:Z2:570:LEU:O	28:Z2:574:LEU:HB2	2.15	0.46
28:Z3:525:LEU:O	30:b3:208:ASN:ND2	2.25	0.46
28:Z4:523:ASP:OD1	30:b4:239:THR:OG1	2.32	0.46
28:Z4:556:ASN:OD1	30:b4:202:VAL:CG2	2.63	0.46
28:Z4:559:GLU:O	30:b4:211:ILE:HB	2.15	0.46
29:a2:240:GLY:O	29:a2:259:ALA:HB3	2.15	0.46
1:A1:1200:ARG:CB	2:A2:727:ASN:HA	2.45	0.46
2:A2:226:PRO:C	6:D1:712:ASP:H	2.23	0.46
2:A2:865:ALA:HB2	6:D1:607:PRO:CG	2.44	0.46
2:A2:909:LYS:N	6:D1:552:TYR:CZ	2.81	0.46
2:A2:975:GLU:OE2	6:D1:501:LEU:CA	2.42	0.46
1:A3:1224:PRO:HB3	2:A4:727:ASN:HB3	1.97	0.46
2:A4:870:HIS:HB3	6:D3:551:PHE:HD2	1.80	0.46
2:A4:1054:SER:HB2	6:D4:762:ARG:CD	2.45	0.46
2:A4:1135:ARG:N	3:A6:146:LYS:H	2.12	0.46
3:A5:996:ASN:CG	11:I5:55:ASP:O	2.58	0.46
3:A5:1316:VAL:HG23	28:Z2:833:ASP:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:147:LEU:O	5:C4:747:PRO:HB3	2.15	0.46
3:A6:1392:ARG:CD	28:Z4:901:ARG:N	2.78	0.46
6:D2:440:PHE:CE1	6:D2:444:LEU:HD11	2.50	0.46
6:D3:440:PHE:CE1	6:D3:444:LEU:HD11	2.50	0.46
8:F1:1093:LEU:HD21	17:O2:241:SER:HA	1.96	0.46
11:I1:882:LYS:HA	17:O1:249:ARG:HD2	1.84	0.46
11:I1:890:TYR:CZ	17:O1:240:GLY:H	1.56	0.46
11:I1:1037:THR:CG2	20:R1:173:LEU:HD23	1.86	0.46
11:I1:1061:ASP:OD2	17:O1:278:GLU:HB3	2.15	0.46
11:I1:1109:LEU:CA	16:N1:437:VAL:O	2.63	0.46
11:I2:841:PHE:CA	15:M3:591:ASP:HB3	2.44	0.46
11:I2:877:ILE:HA	17:O3:254:ARG:HB2	1.97	0.46
11:I2:967:SER:HA	20:R3:150:ASN:HA	1.97	0.46
11:I2:1051:LYS:C	11:I2:1052:LEU:HD12	2.40	0.46
11:I3:815:ILE:HG22	26:X1:498:SER:H	1.80	0.46
11:I4:1584:LEU:HD21	12:J4:275:PHE:CE1	2.51	0.46
11:I5:1051:LYS:C	11:I5:1052:LEU:HD12	2.40	0.46
21:S3:1001:PHE:HB2	21:S3:1057:TYR:CE1	2.51	0.46
22:T3:917:ASP:OD1	22:T3:921:TYR:N	2.47	0.46
22:T4:911:LEU:HD23	22:T4:914:GLN:NE2	2.30	0.46
23:U2:431:ILE:H	23:U2:431:ILE:CD1	2.28	0.46
23:U3:227:ILE:C	23:U3:229:ASN:H	2.22	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
25:W1:12:ILE:HA	25:W1:28:SER:HA	1.96	0.46
26:X3:392:GLN:HB3	26:X3:393:PRO:HD3	1.96	0.46
27:Y4:159:ILE:O	27:Y4:161:PRO:HD3	2.15	0.46
28:Z1:400:LYS:O	30:b1:252:ALA:HB2	2.12	0.46
28:Z1:490:VAL:HG22	28:Z1:590:GLN:HG3	1.97	0.46
28:Z2:24:VAL:HG23	28:Z2:93:ILE:HG23	1.96	0.46
28:Z3:556:ASN:N	30:b3:212:PHE:CB	2.73	0.46
28:Z3:559:GLU:O	30:b3:211:ILE:HB	2.15	0.46
28:Z4:527:SER:HA	30:b4:204:GLU:HB2	1.95	0.46
29:a4:363[A]:LEU:HD13	29:a4:364:VAL:N	2.29	0.46
1:A1:874:VAL:CG1	6:D3:272:VAL:C	2.85	0.46
1:A1:1197:ALA:C	2:A2:728:LYS:NZ	2.71	0.46
1:A1:1201:ARG:CD	2:A2:734:LEU:CG	2.93	0.46
2:A2:781:ARG:CA	6:D1:677:GLN:N	2.71	0.46
2:A2:823:VAL:CG2	2:A2:856:PHE:CE1	2.71	0.46
2:A2:876:ARG:NH1	6:D1:563:GLU:CA	2.65	0.46
2:A2:980:ARG:CG	6:D1:526:LEU:CB	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1130:ARG:C	3:A5:165:PHE:HE2	2.23	0.46
2:A2:1132:PRO:O	3:A5:138:LEU:HD23	2.14	0.46
2:A4:397:LEU:HD12	2:A4:468:GLY:HA3	1.98	0.46
2:A4:1139:ILE:CB	3:A6:138:LEU:CD1	2.90	0.46
3:A5:178:GLY:CA	5:C2:743:LEU:CD2	2.82	0.46
3:A5:1094:ILE:CD1	11:I5:34:LEU:CD2	2.93	0.46
6:D5:422:CYS:SG	6:D5:423:PHE:N	2.88	0.46
6:D7:639:LEU:HD22	6:D7:689:PHE:CD2	2.50	0.46
11:I1:874:LEU:O	17:O1:252:VAL:HG22	2.13	0.46
11:I1:952:LEU:O	16:N1:403:VAL:CG2	2.35	0.46
11:I1:993:SER:HB2	16:N1:430:ARG:HH12	1.22	0.46
11:I1:1015:TYR:OH	11:I1:1089:TYR:O	2.31	0.46
11:I1:1043:LEU:CA	16:N1:430:ARG:CB	2.68	0.46
11:I1:1070:LEU:N	16:N1:429:GLU:HB3	2.26	0.46
11:I1:1611:PHE:HB3	11:I2:1672:VAL:CG2	2.26	0.46
11:I1:1666:THR:CG2	11:I2:1664:PHE:HD1	2.24	0.46
11:I2:884:LEU:CD2	15:M3:599:ILE:HD11	2.45	0.46
11:I2:896:PRO:O	17:O3:232:LYS:C	2.58	0.46
11:I5:1277:LEU:HD23	26:X2:517:ASP:CB	2.40	0.46
21:S1:987:MET:CE	21:S1:991:LYS:HE2	2.45	0.46
21:S1:1124:ASP:OD1	21:S1:1124:ASP:C	2.59	0.46
21:S2:1013:LEU:C	21:S2:1013:LEU:HD12	2.41	0.46
21:S3:699:ILE:C	21:S3:701:GLU:H	2.24	0.46
22:T1:885:ARG:CG	22:T1:885:ARG:NH1	2.73	0.46
23:U2:86:ASN:OD1	23:U2:400:ASN:ND2	2.48	0.46
23:U2:222:VAL:O	24:V2:256:VAL:HG13	2.15	0.46
23:U4:144:TRP:CH2	23:U4:158:LEU:HA	2.51	0.46
24:V4:352:ASP:HB3	24:V4:355:ILE:HD13	1.97	0.46
25:W2:191:ALA:C	25:W2:193:THR:H	2.24	0.46
26:X4:249:LEU:O	26:X4:253:VAL:HG23	2.15	0.46
27:Y2:236:LYS:HG3	27:Y2:306:GLU:OE1	2.15	0.46
27:Y4:16:VAL:HG12	27:Y4:63:TRP:HD1	1.81	0.46
28:Z1:559:GLU:O	30:b1:211:ILE:HB	2.15	0.46
28:Z1:570:LEU:O	28:Z1:574:LEU:HB2	2.15	0.46
28:Z2:523:ASP:OD1	30:b2:239:THR:OG1	2.32	0.46
28:Z2:561:GLN:HB2	30:b2:235:LEU:CA	2.45	0.46
28:Z2:561:GLN:CG	30:b2:237:LEU:H	2.29	0.46
28:Z4:535:ILE:CD1	30:b4:182:PRO:CG	2.88	0.46
28:Z4:570:LEU:O	28:Z4:574:LEU:HB2	2.15	0.46
30:b1:195:SER:HB2	30:b1:264:ASP:HA	1.96	0.46
30:b3:244:ASN:HB3	30:b3:246:CYS:SG	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:825:ARG:HH22	6:D1:677:GLN:HB3	1.80	0.46
2:A2:977:VAL:CG2	6:D1:491:HIS:C	2.85	0.46
2:A2:1156:ASP:H	3:A5:175:GLU:N	2.00	0.46
2:A2:1341:ALA:O	2:A2:1342:SER:CB	2.63	0.46
1:A3:1083:SER:O	6:D3:797:GLY:C	2.56	0.46
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ1	1.67	0.46
3:A5:227:SER:OG	5:C2:734:VAL:HG21	2.15	0.46
3:A5:995:VAL:C	11:I5:61:LYS:CB	2.78	0.46
3:A5:1004:HIS:HE1	11:I5:62:GLU:H	1.63	0.46
3:A5:1378:GLY:C	28:Z2:812:LEU:HA	2.00	0.46
6:D7:422:CYS:SG	6:D7:423:PHE:N	2.88	0.46
8:F1:984:ALA:O	8:F1:988:ARG:NH1	2.48	0.46
8:F1:1571:VAL:O	8:F1:1574:ILE:HG13	2.16	0.46
11:I2:797:LEU:CD2	17:O3:245:GLU:CA	2.91	0.46
11:I2:955:LYS:HZ3	17:O3:249:ARG:HH21	1.52	0.46
11:I2:965:ALA:C	20:R3:154:ALA:CA	2.77	0.46
11:I2:1037:THR:OG1	20:R3:169:GLY:HA2	1.90	0.46
11:I2:1051:LYS:CD	17:O3:285:LYS:HD2	2.46	0.46
11:I5:1370:VAL:CG2	12:J5:259:THR:HG21	2.41	0.46
12:J4:240:GLY:O	12:J4:241:THR:OG1	2.28	0.46
17:O2:108:VAL:N	17:O2:109:PRO:CD	2.78	0.46
21:S3:987:MET:CE	21:S3:991:LYS:HE2	2.45	0.46
21:S4:690:PHE:C	21:S4:692:GLU:N	2.70	0.46
21:S4:987:MET:CE	21:S4:991:LYS:HE2	2.45	0.46
23:U1:144:TRP:CH2	23:U1:158:LEU:HA	2.51	0.46
23:U1:227:ILE:C	23:U1:229:ASN:H	2.22	0.46
23:U2:159:ASP:OD2	24:V2:319:LEU:HB2	2.15	0.46
23:U2:314:ILE:HD12	24:V2:309:LYS:HE3	1.98	0.46
23:U3:159:ASP:OD2	24:V3:319:LEU:HB2	2.15	0.46
23:U4:159:ASP:OD2	24:V4:319:LEU:HB2	2.16	0.46
24:V1:397:GLU:OE1	24:V1:397:GLU:N	2.40	0.46
25:W2:12:ILE:HG23	25:W2:27:CYS:O	2.15	0.46
27:Y3:208:LEU:HD11	27:Y3:231:ILE:HD11	1.97	0.46
27:Y3:219:SER:HG	27:Y3:312:TRP:HD1	1.63	0.46
2:A2:1126:VAL:O	3:A5:138:LEU:N	2.49	0.46
1:A3:1083:SER:HA	6:D3:798:MET:HG2	0.83	0.46
2:A4:828:ALA:O	2:A4:867:GLU:OE1	2.34	0.46
2:A4:867:GLU:OE2	6:D3:605:THR:CB	2.53	0.46
2:A4:873:PRO:HD2	6:D3:569:CYS:N	2.31	0.46
2:A4:1304:GLU:O	2:A4:1305:ALA:C	2.58	0.46
3:A5:1027:HIS:HE1	11:I5:65:LYS:HB2	1.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:164:LEU:CG	5:C4:741:THR:C	2.87	0.46
3:A6:177:ILE:CD1	5:C4:740:ARG:HG2	2.46	0.46
6:D6:192:TYR:OH	6:D6:498:GLU:OE1	2.33	0.46
8:F1:1569:VAL:HG23	8:F1:1570:GLN:N	2.31	0.46
8:F2:332:VAL:O	8:F2:336:ALA:N	2.48	0.46
11:I1:1426:SER:CB	12:J1:263:MET:SD	3.04	0.46
11:I1:1665:LEU:CD1	11:I2:1667:GLN:NE2	2.66	0.46
11:I2:900:ARG:O	17:O3:232:LYS:HE2	2.16	0.46
11:I2:949:CYS:N	17:O3:253:LEU:O	2.46	0.46
11:I2:980:ILE:HG23	15:M3:621:ARG:HB2	0.74	0.46
11:I2:980:ILE:HG22	15:M3:617:THR:C	2.40	0.46
11:I2:990:GLU:CB	17:O3:272:SER:CB	2.90	0.46
11:I2:1045:PHE:HD1	17:O3:279:ILE:HG22	1.75	0.46
11:I3:1584:LEU:HD21	12:J3:275:PHE:CE1	2.51	0.46
11:I4:1271:GLU:CA	26:X3:525:ILE:HG23	2.45	0.46
11:I4:1426:SER:CB	12:J4:263:MET:SD	3.04	0.46
21:S1:1027:THR:OG1	21:S1:1029:PRO:HD2	2.16	0.46
21:S3:975:LYS:HD3	22:T3:882:SER:HB2	1.97	0.46
21:S3:1013:LEU:C	21:S3:1013:LEU:HD12	2.41	0.46
21:S3:1052:LEU:HA	21:S3:1055:LEU:HD23	1.98	0.46
21:S3:1073:ILE:HD12	21:S3:1073:ILE:C	2.41	0.46
21:S4:1016:LYS:NZ	21:S4:1039:GLU:HG3	2.31	0.46
22:T1:911:LEU:HD23	22:T1:914:GLN:NE2	2.30	0.46
22:T4:702:SER:HB3	22:T4:704:LYS:HE3	1.97	0.46
23:U1:8:GLN:O	23:U1:10:GLU:N	2.48	0.46
23:U3:431:ILE:HD12	23:U3:431:ILE:N	2.30	0.46
23:U4:157:ASP:OD1	23:U4:163:ARG:NH2	2.46	0.46
24:V2:178:THR:HG22	24:V2:180:LEU:H	1.81	0.46
24:V4:360:LYS:HG3	24:V4:366:PRO:HA	1.97	0.46
25:W4:12:ILE:HA	25:W4:28:SER:HA	1.96	0.46
26:X1:186:ARG:HG3	26:X1:190:PHE:HB2	1.97	0.46
26:X2:522:MET:HE1	26:X2:538:ILE:HD12	1.98	0.46
26:X3:406:LEU:HB2	26:X3:407:PRO:HD3	1.98	0.46
27:Y1:312:TRP:CE2	27:Y1:319:LEU:HD13	2.50	0.46
28:Z1:401:THR:CG2	30:b1:253:SER:C	2.78	0.46
28:Z2:438:GLU:CB	30:b2:333:HIS:CE1	2.99	0.46
28:Z3:556:ASN:OD1	30:b3:202:VAL:CG2	2.63	0.46
28:Z3:561:GLN:HG3	30:b3:237:LEU:N	2.31	0.46
28:Z4:438:GLU:OE1	30:b4:333:HIS:NE2	2.46	0.46
30:b4:147:SER:OG	30:b4:148:ALA:N	2.48	0.46
2:A2:825:ARG:CZ	6:D1:679:ILE:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:870:HIS:HB2	6:D1:277:ASN:HD22	1.80	0.46
1:A3:1048:ARG:NH2	6:D3:819:ASN:CG	2.73	0.46
2:A4:781:ARG:NE	6:D3:633:LYS:CE	2.64	0.46
2:A4:878:LEU:HB2	6:D3:567:LEU:CB	2.45	0.46
2:A4:1019:ARG:NH1	6:D3:239:THR:OG1	2.48	0.46
2:A4:1255:LEU:HB3	2:A4:1256:PRO:HD3	1.97	0.46
3:A5:1368:GLN:CB	28:Z2:841:ALA:C	2.85	0.46
3:A5:1377:ARG:NH1	28:Z2:722:THR:HA	2.30	0.46
6:D2:192:TYR:OH	6:D2:498:GLU:OE1	2.33	0.46
6:D2:639:LEU:HD22	6:D2:689:PHE:CD2	2.50	0.46
8:F1:535:ILE:CG1	8:F1:536:PRO:HD2	2.46	0.46
8:F1:1205:TRP:CE2	17:O2:254:ARG:CD	2.95	0.46
11:I1:942:HIS:ND1	17:O1:259:ASP:HA	2.29	0.46
11:I1:951:LYS:CB	17:O1:253:LEU:CD1	2.84	0.46
11:I1:1042:LEU:O	16:N1:430:ARG:CZ	2.63	0.46
11:I1:1049:LEU:C	17:O1:291:ASP:HB2	2.41	0.46
11:I2:841:PHE:C	15:M3:591:ASP:CG	2.83	0.46
11:I2:853:ILE:HG12	17:O3:254:ARG:HD3	1.01	0.46
11:I2:952:LEU:CD1	15:M3:599:ILE:HG12	2.46	0.46
11:I2:1042:LEU:HD22	15:M3:608:LYS:HB2	1.96	0.46
11:I2:1049:LEU:N	15:M3:622:VAL:HG11	2.31	0.46
11:I2:1051:LYS:NZ	17:O3:285:LYS:CE	2.74	0.46
11:I2:1584:LEU:HD21	12:J2:275:PHE:CE1	2.51	0.46
11:I3:1269:ARG:CA	26:X1:524:SER:O	2.58	0.46
21:S2:1052:LEU:C	21:S2:1055:LEU:HD23	2.41	0.46
22:T1:687:GLU:O	22:T1:691:GLN:HG3	2.15	0.46
22:T2:911:LEU:HD23	22:T2:914:GLN:NE2	2.30	0.46
22:T3:687:GLU:O	22:T3:691:GLN:HG3	2.15	0.46
22:T4:777:ILE:O	22:T4:780:PRO:HG3	2.15	0.46
23:U1:219:LEU:HD22	23:U1:227:ILE:HG12	1.98	0.46
23:U2:207:SER:O	23:U2:211:ILE:HG13	2.16	0.46
23:U2:431:ILE:HD12	23:U2:431:ILE:N	2.30	0.46
24:V1:156:THR:HG22	24:V1:514:ARG:CD	2.45	0.46
25:W3:191:ALA:C	25:W3:193:THR:H	2.23	0.46
26:X2:152:LEU:CD2	26:X2:182:LEU:HB3	2.43	0.46
26:X2:322:THR:HG23	26:X2:329:ARG:HD3	1.97	0.46
26:X3:186:ARG:HG3	26:X3:190:PHE:HB2	1.97	0.46
26:X3:417:ALA:HB1	26:X3:465:MET:HE1	1.96	0.46
26:X4:51:MET:HB3	27:Y4:346:THR:C	2.41	0.46
27:Y1:208:LEU:HD11	27:Y1:231:ILE:HD11	1.97	0.46
27:Y2:16:VAL:HG12	27:Y2:63:TRP:HD1	1.81	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
28:Z1:531:LYS:CG	30:b1:182:PRO:O	2.61	0.46
28:Z3:402:GLY:HA2	30:b3:254:SER:OG	1.98	0.46
28:Z3:407:GLY:HA2	30:b3:252:ALA:H	1.79	0.46
28:Z3:561:GLN:HB2	30:b3:235:LEU:CA	2.46	0.46
28:Z4:285:ASN:OD1	28:Z4:285:ASN:N	2.48	0.46
30:b1:277:TRP:CZ2	30:b1:309:GLY:HA3	2.51	0.46
30:b2:277:TRP:CZ2	30:b2:309:GLY:HA3	2.51	0.46
1:A1:874:VAL:C	6:D3:276:GLY:O	2.59	0.46
2:A2:874:VAL:HG11	6:D1:608:ILE:HA	1.97	0.46
1:A3:1084:ARG:CA	6:D3:794:THR:HA	2.45	0.46
2:A4:879:LEU:H	6:D3:564:ASN:HB3	1.81	0.46
2:A4:989:MSE:HG2	6:D3:239:THR:O	2.16	0.46
6:D1:440:PHE:CE1	6:D1:444:LEU:HD11	2.50	0.46
6:D3:422:CYS:SG	6:D3:423:PHE:N	2.88	0.46
8:F2:535:ILE:CG1	8:F2:536:PRO:HD2	2.46	0.46
8:F2:1569:VAL:HG23	8:F2:1570:GLN:N	2.31	0.46
9:G1:263:MET:CG	17:O2:260:LEU:HB2	2.45	0.46
11:I1:896:PRO:CA	17:O1:232:LYS:C	2.88	0.46
11:I1:913:ALA:CB	15:M1:584:GLN:CG	2.87	0.46
11:I1:966:TRP:HA	20:R1:154:ALA:N	2.30	0.46
11:I1:1021:ILE:CD1	16:N1:410:MET:CE	2.94	0.46
11:I1:1038:ILE:H	20:R1:169:GLY:N	2.13	0.46
11:I1:1543:LEU:HD13	11:I2:1677:LYS:HZ1	1.78	0.46
11:I2:504:ALA:CB	11:I2:508:LEU:HD23	2.46	0.46
11:I2:847:THR:N	15:M3:594:LYS:CE	2.78	0.46
11:I2:884:LEU:HD12	16:N3:400:LEU:HD11	0.48	0.46
11:I2:950:LEU:CB	16:N3:407:ALA:CA	2.86	0.46
11:I2:1013:GLU:OE1	11:I2:1013:GLU:N	2.41	0.46
11:I2:1036:PRO:HB3	15:M3:623:LEU:HD12	1.25	0.46
11:I2:1052:LEU:HB2	16:N3:438:LEU:HD11	1.96	0.46
11:I3:1274:HIS:CD2	26:X1:526:CYS:HB3	2.51	0.46
11:I4:1272:TYR:HA	26:X3:525:ILE:HG13	1.93	0.46
11:I4:1276:GLN:HB2	26:X3:522:MET:HE2	1.97	0.46
11:I4:1279:THR:HG23	26:X3:520:GLU:C	2.41	0.46
21:S1:1020:LEU:HD22	21:S1:1020:LEU:N	2.30	0.46
21:S2:352:LEU:O	21:S2:374:THR:HA	2.15	0.46
21:S2:1127:GLN:C	21:S2:1129:ASP:N	2.74	0.46
21:S3:133:ILE:HD13	21:S3:133:ILE:HG21	1.68	0.46
21:S4:352:LEU:O	21:S4:374:THR:HA	2.15	0.46
22:T3:702:SER:HB3	22:T3:704:LYS:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:207:SER:O	23:U1:211:ILE:HG13	2.16	0.46
23:U3:157:ASP:OD1	23:U3:163:ARG:NH2	2.46	0.46
24:V3:492:LEU:HD12	24:V3:508:ILE:HD13	1.96	0.46
24:V4:156:THR:HG22	24:V4:514:ARG:CD	2.45	0.46
25:W1:191:ALA:C	25:W1:193:THR:H	2.23	0.46
26:X1:322:THR:HG23	26:X1:329:ARG:HD3	1.97	0.46
26:X2:51:MET:HB3	27:Y2:346:THR:C	2.41	0.46
26:X2:141:ASN:C	26:X2:145:ASN:HD22	2.24	0.46
26:X2:152:LEU:HD22	26:X2:179:LEU:HD12	1.97	0.46
27:Y1:79:LYS:HG2	27:Y1:109:GLY:C	2.41	0.46
27:Y2:140:LEU:O	27:Y2:142:PRO:HD3	2.15	0.46
27:Y3:42:THR:HG22	29:a3:248:ARG:HD2	1.97	0.46
27:Y4:208:LEU:HD11	27:Y4:231:ILE:HD11	1.96	0.46
28:Z1:247:ASP:O	28:Z1:251:PHE:N	2.47	0.46
28:Z1:438:GLU:OE1	30:b1:333:HIS:CG	2.69	0.46
28:Z1:531:LYS:CD	30:b1:183:LEU:CB	2.71	0.46
28:Z2:556:ASN:OD1	30:b2:202:VAL:CG2	2.63	0.46
28:Z3:447:GLU:HG3	30:b3:248:SER:HB3	1.94	0.46
28:Z3:521:SER:O	30:b3:238:ASN:HB3	2.13	0.46
30:b2:130:LYS:O	30:b2:134:HIS:NE2	2.41	0.46
30:b3:39:GLY:HA2	30:b3:66:THR:OG1	2.14	0.46
2:A2:227:SER:HB2	6:D1:711:PHE:C	2.40	0.46
2:A2:873:PRO:C	6:D1:563:GLU:CB	2.75	0.46
2:A2:987:LYS:HD2	6:D1:555:ARG:NH1	2.27	0.46
2:A2:1139:ILE:HG23	3:A5:131:PRO:N	2.20	0.46
1:A3:1090:SER:CB	6:D3:800:PRO:HA	2.40	0.46
2:A4:908:LEU:O	6:D3:555:ARG:CG	2.63	0.46
2:A4:1126:VAL:HG22	3:A6:139:ASN:H	1.80	0.46
2:A4:1148:ARG:HH22	3:A6:174:PRO:CG	2.12	0.46
3:A5:1160:GLN:HE22	5:C5:740:ARG:HD2	1.76	0.46
3:A5:1416:ARG:O	28:Z2:962:LYS:O	2.30	0.46
3:A5:1416:ARG:O	28:Z2:966:CYS:CB	2.64	0.46
3:A6:165:PHE:N	5:C4:743:LEU:CD1	2.77	0.46
3:A6:177:ILE:HD13	5:C4:740:ARG:CG	2.39	0.46
6:D6:422:CYS:SG	6:D6:423:PHE:N	2.88	0.46
8:F1:158:PRO:HG3	11:I1:1207:PRO:HD3	0.51	0.46
8:F1:1262:HIS:CG	17:O2:259:ASP:CB	2.99	0.46
11:I1:949:CYS:SG	17:O1:254:ARG:HA	2.56	0.46
11:I1:1584:LEU:HD21	12:J1:275:PHE:CE1	2.51	0.46
11:I2:840:LEU:HD21	17:O3:247:TRP:HB2	1.93	0.46
11:I2:961:ARG:NH2	16:N3:388:LYS:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1015:TYR:OH	11:I2:1089:TYR:O	2.31	0.46
11:I2:1035:GLN:C	16:N3:441:PHE:CE2	2.94	0.46
11:I3:1270:LYS:HB3	26:X1:531:LEU:N	2.25	0.46
11:I4:1267:LEU:HD11	26:X3:529:TRP:CH2	2.50	0.46
21:S1:1001:PHE:HB2	21:S1:1057:TYR:CE1	2.51	0.46
21:S2:975:LYS:HD3	22:T2:882:SER:HB2	1.98	0.46
21:S2:987:MET:CE	21:S2:991:LYS:HE2	2.45	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:S3:1039:GLU:HG2	21:S3:1039:GLU:H	1.59	0.46
22:T3:777:ILE:O	22:T3:780:PRO:HG3	2.16	0.46
22:T4:781:THR:HG23	22:T4:784:GLU:H	1.78	0.46
23:U3:144:TRP:CH2	23:U3:158:LEU:HA	2.51	0.46
24:V2:270:THR:OG1	24:V2:391:CYS:SG	2.72	0.46
24:V3:352:ASP:HB3	24:V3:355:ILE:HD13	1.97	0.46
25:W1:16:VAL:HG21	25:W1:59:VAL:O	2.16	0.46
25:W4:257:LEU:HA	25:W4:273:GLY:HA2	1.98	0.46
26:X1:51:MET:HB3	27:Y1:346:THR:C	2.41	0.46
26:X2:406:LEU:HB2	26:X2:407:PRO:HD3	1.98	0.46
26:X4:159:ILE:HG12	26:X4:175:LEU:CB	2.39	0.46
27:Y3:16:VAL:HG12	27:Y3:63:TRP:HD1	1.81	0.46
27:Y3:236:LYS:HG3	27:Y3:306:GLU:OE1	2.15	0.46
27:Y4:79:LYS:HG2	27:Y4:109:GLY:C	2.41	0.46
28:Z2:177:PHE:CD1	28:Z2:183:LEU:HD22	2.51	0.46
28:Z2:490:VAL:HG22	28:Z2:590:GLN:HG3	1.98	0.46
28:Z3:438:GLU:OE1	30:b3:333:HIS:CG	2.69	0.46
28:Z3:490:VAL:HG22	28:Z3:590:GLN:HG3	1.98	0.46
28:Z4:177:PHE:CD1	28:Z4:183:LEU:HD22	2.51	0.46
28:Z4:401:THR:CG2	30:b4:253:SER:C	2.78	0.46
28:Z4:436:HIS:NE2	28:Z4:438:GLU:HB2	2.31	0.46
28:Z4:541:PRO:CG	30:b4:180:GLY:HA3	2.44	0.46
29:a4:240:GLY:O	29:a4:259:ALA:HB3	2.15	0.46
2:A2:227:SER:CB	6:D1:711:PHE:CG	2.95	0.46
2:A2:276:GLN:NE2	4:B2:355:PRO:CD	2.78	0.46
2:A2:868:GLN:HB3	6:D1:570:VAL:HG12	1.93	0.46
2:A2:973:GLU:HB2	6:D1:498:GLU:CB	2.45	0.46
2:A2:1134:GLU:N	3:A5:146:LYS:CA	2.66	0.46
2:A2:1289:HIS:CE1	2:A2:1329:GLU:HG3	2.51	0.46
2:A4:864:ARG:CA	6:D3:608:ILE:HG12	2.44	0.46
2:A4:980:ARG:HB2	6:D3:473:GLU:HA	1.48	0.46
2:A4:989:MSE:CE	6:D3:240:ASP:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1290:ALA:CB	2:A4:1349:ALA:HB3	2.46	0.46
3:A5:179:TYR:CD1	5:C2:744:PHE:CG	3.03	0.46
3:A5:1367:THR:C	28:Z2:845:ILE:N	2.74	0.46
3:A6:1334:GLY:O	28:Z4:961:PHE:CA	2.62	0.46
6:D4:639:LEU:HD22	6:D4:689:PHE:CD2	2.50	0.46
8:F1:1138:TRP:N	17:O2:244:GLU:HB3	2.31	0.46
8:F1:1832:ASN:OD1	8:F1:1833:ARG:HG3	2.16	0.46
8:F2:1571:VAL:O	8:F2:1574:ILE:HG13	2.16	0.46
9:G2:256:GLN:OE1	17:O4:262:ASP:N	2.49	0.46
11:I1:947:LEU:CD1	16:N1:407:ALA:O	2.64	0.46
11:I1:1061:ASP:CB	17:O1:279:ILE:HD12	2.45	0.46
11:I1:1665:LEU:HA	11:I2:1668:HIS:CA	2.41	0.46
11:I2:923:GLY:N	15:M3:592:LEU:N	2.62	0.46
11:I2:946:THR:CA	17:O3:257:ALA:O	2.63	0.46
11:I2:1039:ALA:CB	20:R3:170:LEU:HG	0.26	0.46
11:I2:1426:SER:CB	12:J2:263:MET:SD	3.04	0.46
11:I5:1584:LEU:HD21	12:J5:275:PHE:CE1	2.51	0.46
21:S1:682:ASN:HA	21:S1:684:THR:HA	1.98	0.46
21:S1:1016:LYS:NZ	21:S1:1039:GLU:HG3	2.31	0.46
21:S2:1143:VAL:HA	21:S2:1146:ALA:CB	2.41	0.46
21:S3:449:ASP:HB2	21:S3:467:ASN:ND2	2.31	0.46
22:T1:917:ASP:OD1	22:T1:921:TYR:N	2.47	0.46
23:U1:159:ASP:OD2	24:V1:319:LEU:HB2	2.15	0.46
23:U2:144:TRP:CH2	23:U2:158:LEU:HA	2.51	0.46
23:U3:284:SER:O	23:U3:288:ILE:HG12	2.16	0.46
25:W2:16:VAL:HG21	25:W2:59:VAL:O	2.16	0.46
26:X1:522:MET:HE1	26:X1:538:ILE:HD12	1.98	0.46
26:X2:159:ILE:HG12	26:X2:175:LEU:CB	2.39	0.46
26:X3:152:LEU:HD22	26:X3:179:LEU:HD12	1.97	0.46
26:X4:522:MET:HE1	26:X4:538:ILE:HD12	1.98	0.46
27:Y1:16:VAL:HG12	27:Y1:63:TRP:HD1	1.81	0.46
27:Y3:144:ASP:C	27:Y3:146:ARG:H	2.24	0.46
28:Z1:527:SER:CA	30:b1:204:GLU:CG	2.59	0.46
28:Z2:247:ASP:HB2	28:Z2:254:ILE:HG13	1.98	0.46
28:Z2:438:GLU:OE1	30:b2:333:HIS:CG	2.69	0.46
28:Z2:541:PRO:CG	30:b2:180:GLY:HA3	2.44	0.46
28:Z3:534:ASP:CB	30:b3:183:LEU:N	2.33	0.46
28:Z4:534:ASP:H	30:b4:164:CYS:HB3	1.77	0.46
30:b1:170:ARG:HD3	30:b1:214:TRP:CZ3	2.51	0.46
30:b2:191:GLN:OE1	30:b2:259:ARG:HD2	2.16	0.46
30:b2:195:SER:HB2	30:b2:264:ASP:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1220:PRO:C	2:A2:645:PHE:CD1	2.90	0.46
2:A2:980:ARG:CG	6:D1:526:LEU:HB3	2.46	0.46
2:A2:982:THR:HG22	6:D1:494:LEU:N	2.26	0.46
2:A2:1155:ASN:HD21	5:C2:735:ILE:HG23	1.81	0.46
2:A2:1168:LEU:N	4:B5:342:ARG:HH12	2.14	0.46
2:A4:1133:GLU:HA	3:A6:145:THR:CG2	2.34	0.46
2:A4:1344:ALA:O	2:A4:1345:SER:HB2	2.16	0.46
3:A5:1092:ASN:N	11:I5:37:GLU:H	2.14	0.46
3:A5:1356:SER:OG	28:Z2:877:ILE:CA	2.58	0.46
3:A5:1378:GLY:CA	28:Z2:812:LEU:HA	2.46	0.46
3:A6:220:VAL:CA	5:C4:738:ASP:O	2.63	0.46
6:D1:226:MET:HE1	6:D1:464:GLN:HG2	1.98	0.46
6:D4:781:ARG:NH1	6:D4:784:GLN:OE1	2.49	0.46
6:D5:440:PHE:CE1	6:D5:444:LEU:HD11	2.50	0.46
8:F1:1133:ARG:NH2	8:F1:1194:ASP:OD1	2.49	0.46
8:F2:1832:ASN:OD1	8:F2:1833:ARG:HG3	2.16	0.46
9:G1:253:SER:HB3	15:M2:601:ASP:HA	1.04	0.46
11:I1:504:ALA:CB	11:I1:508:LEU:HD23	2.46	0.46
11:I1:879:VAL:HG12	17:O1:247:TRP:HB2	1.98	0.46
11:I1:916:ALA:CB	15:M1:586:ASP:N	2.65	0.46
11:I4:1267:LEU:O	26:X3:528:GLU:O	2.34	0.46
11:I4:1275:SER:CA	26:X3:525:ILE:CB	2.63	0.46
11:I5:504:ALA:CB	11:I5:508:LEU:HD23	2.46	0.46
17:O3:102:LYS:N	18:P3:322:LYS:CD	2.72	0.46
21:S2:699:ILE:C	21:S2:701:GLU:H	2.24	0.46
21:S2:1001:PHE:HB2	21:S2:1057:TYR:CE1	2.51	0.46
21:S3:352:LEU:O	21:S3:374:THR:HA	2.15	0.46
22:T3:911:LEU:HD23	22:T3:914:GLN:NE2	2.30	0.46
23:U2:8:GLN:O	23:U2:10:GLU:N	2.48	0.46
23:U3:314:ILE:HD12	24:V3:309:LYS:HE3	1.98	0.46
24:V1:360:LYS:HG3	24:V1:366:PRO:HA	1.97	0.46
24:V1:375:GLU:C	24:V1:377:GLU:H	2.24	0.46
24:V4:151:PHE:HB2	25:W4:259:ARG:NH1	2.30	0.46
24:V4:178:THR:HG22	24:V4:180:LEU:H	1.81	0.46
25:W1:95:HIS:NE2	25:W1:138:PRO:HB3	2.31	0.46
26:X1:141:ASN:C	26:X1:145:ASN:ND2	2.74	0.46
26:X1:153:ASN:HA	26:X1:156:GLU:OE1	2.16	0.46
26:X2:186:ARG:HG3	26:X2:190:PHE:HB2	1.97	0.46
26:X2:249:LEU:O	26:X2:253:VAL:HG23	2.15	0.46
26:X4:153:ASN:HA	26:X4:156:GLU:OE1	2.16	0.46
26:X4:322:THR:HG23	26:X4:329:ARG:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:438:GLU:HB3	30:b4:314:PRO:HD2	1.93	0.46
28:Z4:526:ARG:CB	30:b4:206:ASN:CB	2.66	0.46
29:a4:214[B]:THR:HG21	29:a4:252[B]:MET:HE2	1.98	0.46
30:b2:170:ARG:HD3	30:b2:214:TRP:CZ3	2.51	0.46
30:b2:244:ASN:HB3	30:b2:246:CYS:SG	2.55	0.46
30:b3:147:SER:OG	30:b3:148:ALA:N	2.48	0.46
1:A1:1091:VAL:CG1	6:D1:804:SER:HG	1.81	0.45
2:A2:968:SER:CA	6:D1:202:GLN:HA	2.46	0.45
2:A2:1141:GLU:N	3:A5:130:ILE:CA	2.78	0.45
1:A3:1056:PHE:HZ	6:D3:811:LEU:N	2.15	0.45
2:A4:870:HIS:CD2	6:D3:566:PHE:CE1	3.01	0.45
2:A4:1143:LEU:HB2	3:A6:135:PHE:CD2	2.50	0.45
3:A5:1395:LYS:HE2	28:Z2:872:TYR:N	2.31	0.45
3:A6:1361:ARG:HB2	28:Z4:876:LEU:N	2.31	0.45
6:D6:781:ARG:NH1	6:D6:784:GLN:OE1	2.49	0.45
6:D7:646:LEU:HD22	6:D7:696:ILE:HD11	1.98	0.45
6:D7:781:ARG:NH1	6:D7:784:GLN:OE1	2.49	0.45
8:F2:302:PRO:O	8:F2:355:ARG:NE	2.48	0.45
9:G1:256:GLN:N	17:O2:253:LEU:O	2.49	0.45
11:I1:833:PHE:O	17:O1:237:PRO:O	2.34	0.45
11:I1:885:GLU:CD	17:O1:249:ARG:NE	2.74	0.45
11:I1:1017:VAL:N	16:N1:411:GLN:CD	2.74	0.45
11:I1:1052:LEU:HD23	16:N1:434:LEU:CG	2.44	0.45
11:I1:1056:PRO:CG	17:O1:278:GLU:HG2	2.44	0.45
11:I1:1114:VAL:HG11	16:N1:436:ALA:HB2	1.98	0.45
11:I2:953:LEU:HD23	15:M3:603:SER:HG	1.77	0.45
11:I2:957:SER:HB2	20:R3:168:LEU:CB	2.27	0.45
11:I2:1028:CYS:O	20:R3:169:GLY:CA	2.64	0.45
11:I2:1051:LYS:CE	17:O3:285:LYS:HD2	2.42	0.45
11:I3:504:ALA:CB	11:I3:508:LEU:HD23	2.46	0.45
11:I3:1182:GLN:CG	12:J3:245:GLU:OE2	2.51	0.45
11:I3:1275:SER:HB2	26:X1:508:LEU:CD2	2.40	0.45
11:I3:1426:SER:CB	12:J3:263:MET:SD	3.04	0.45
17:O1:108:VAL:N	17:O1:109:PRO:CD	2.78	0.45
21:S1:934:HIS:C	21:S1:934:HIS:CD2	2.94	0.45
21:S3:1016:LYS:NZ	21:S3:1039:GLU:HG3	2.31	0.45
21:S3:1119:LEU:N	21:S3:1120:PRO:CD	2.79	0.45
22:T2:777:ILE:O	22:T2:780:PRO:HG3	2.15	0.45
23:U2:159:ASP:OD2	24:V2:319:LEU:N	2.29	0.45
23:U2:219:LEU:HD22	23:U2:227:ILE:HG12	1.98	0.45
23:U4:207:SER:O	23:U4:211:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:433:ALA:O	23:U4:435:PHE:N	2.44	0.45
25:W2:227:GLN:OE1	25:W2:256:VAL:HG11	2.15	0.45
26:X1:511:TYR:HA	26:X1:512:PRO:HD3	1.73	0.45
26:X3:322:THR:HG23	26:X3:329:ARG:HD3	1.97	0.45
27:Y4:42:THR:HG22	29:a4:248:ARG:HD2	1.97	0.45
28:Z1:561:GLN:HG3	30:b1:237:LEU:N	2.31	0.45
28:Z2:401:THR:CG2	30:b2:253:SER:C	2.78	0.45
28:Z3:407:GLY:CA	30:b3:251:ILE:CG1	2.89	0.45
28:Z3:554:PHE:HB2	30:b3:232:PRO:HB2	1.24	0.45
30:b4:191:GLN:OE1	30:b4:259:ARG:HD2	2.16	0.45
2:A2:825:ARG:CD	6:D1:633:LYS:NZ	2.72	0.45
2:A2:1075:LEU:CD2	3:A5:132:ASP:OD2	2.64	0.45
2:A2:1094:ILE:CG2	6:D2:759:GLN:HB3	2.39	0.45
2:A2:1135:ARG:HG3	3:A5:134:VAL:CG1	2.45	0.45
2:A2:1290:ALA:CB	2:A2:1349:ALA:HB3	2.46	0.45
1:A3:1201:ARG:O	2:A4:732:GLN:HA	2.15	0.45
1:A3:1222:ALA:CB	2:A4:723:PHE:HE2	2.11	0.45
3:A6:1369:ILE:CA	28:Z4:826:TYR:CA	2.78	0.45
6:D1:646:LEU:HD22	6:D1:696:ILE:HD11	1.98	0.45
6:D6:226:MET:HE1	6:D6:464:GLN:HG2	1.98	0.45
8:F2:731:ASP:OD1	8:F2:732:VAL:N	2.45	0.45
8:F2:840:ARG:HG3	8:F2:841:PRO:HD2	1.99	0.45
11:I1:840:LEU:HD21	17:O1:244:GLU:CB	2.26	0.45
11:I1:882:LYS:HB2	17:O1:245:GLU:CB	2.42	0.45
11:I1:934:LEU:C	15:M1:602:MET:HE3	2.35	0.45
11:I1:1048:GLU:CA	20:R1:143:PHE:HE1	2.22	0.45
11:I1:1104:LEU:CA	16:N1:436:ALA:CB	2.84	0.45
11:I2:894:VAL:HB	17:O3:239:GLN:CB	2.46	0.45
11:I2:976:ARG:HH21	20:R3:143:PHE:HA	1.75	0.45
11:I2:993:SER:CB	16:N3:430:ARG:CZ	2.80	0.45
11:I2:1049:LEU:HD21	17:O3:291:ASP:CG	2.41	0.45
11:I4:1276:GLN:HB2	26:X3:522:MET:CE	2.36	0.45
17:O3:108:VAL:N	17:O3:109:PRO:CD	2.79	0.45
19:Q1:192:GLN:HG2	19:Q1:232:PHE:CD2	2.51	0.45
21:S1:184:ILE:CD1	21:S1:201:VAL:HG23	2.45	0.45
21:S1:699:ILE:C	21:S1:701:GLU:H	2.24	0.45
21:S1:1119:LEU:N	21:S1:1120:PRO:CD	2.79	0.45
21:S1:1127:GLN:C	21:S1:1129:ASP:N	2.74	0.45
21:S2:449:ASP:HB2	21:S2:467:ASN:ND2	2.31	0.45
21:S2:1119:LEU:N	21:S2:1120:PRO:CD	2.79	0.45
21:S3:184:ILE:CD1	21:S3:201:VAL:HG23	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1027:THR:OG1	21:S3:1029:PRO:HD2	2.16	0.45
21:S4:1013:LEU:C	21:S4:1013:LEU:HD12	2.41	0.45
21:S4:1124:ASP:OD1	21:S4:1124:ASP:C	2.58	0.45
22:T4:917:ASP:OD1	22:T4:921:TYR:N	2.47	0.45
23:U1:314:ILE:HD12	24:V1:309:LYS:HE3	1.98	0.45
23:U1:431:ILE:H	23:U1:431:ILE:CD1	2.28	0.45
24:V1:304:VAL:HG13	24:V1:323:ILE:HG22	1.97	0.45
25:W4:191:ALA:C	25:W4:193:THR:H	2.23	0.45
26:X1:268:SER:HB2	26:X1:269:ASP:OD1	2.16	0.45
26:X2:141:ASN:C	26:X2:145:ASN:ND2	2.74	0.45
27:Y1:140:LEU:O	27:Y1:142:PRO:HD3	2.15	0.45
28:Z1:438:GLU:CB	30:b1:333:HIS:CE1	2.98	0.45
28:Z2:561:GLN:CB	30:b2:236:THR:H	1.96	0.45
28:Z2:561:GLN:HG3	30:b2:237:LEU:N	2.31	0.45
29:a4:286:LEU:C	29:a4:286:LEU:HD23	2.42	0.45
30:b1:147:SER:OG	30:b1:148:ALA:N	2.48	0.45
30:b1:191:GLN:OE1	30:b1:259:ARG:HD2	2.16	0.45
2:A2:873:PRO:CA	6:D1:563:GLU:CB	2.88	0.45
2:A2:873:PRO:HG3	6:D1:568:ARG:HE	1.30	0.45
2:A2:989:MSE:SE	6:D1:241:ALA:HB2	2.67	0.45
2:A2:1138:GLU:HB2	3:A5:147:LEU:HD22	1.98	0.45
2:A4:858:ALA:C	6:D3:606:LYS:HE3	2.40	0.45
2:A4:974:PRO:C	6:D3:499:LEU:CB	2.70	0.45
2:A4:1055:ARG:CG	6:D4:762:ARG:HA	2.46	0.45
2:A4:1119:ASP:O	3:A6:136:GLU:OE1	2.34	0.45
2:A4:1160:GLN:CB	3:A6:165:PHE:HA	2.46	0.45
2:A4:1347:SER:O	2:A4:1348:GLU:C	2.60	0.45
3:A5:1368:GLN:HB2	28:Z2:840:PHE:O	2.17	0.45
3:A6:177:ILE:HD13	5:C4:740:ARG:HG2	1.98	0.45
3:A6:230:LYS:CG	5:C4:739:MET:HE1	2.44	0.45
6:D1:781:ARG:NH1	6:D1:784:GLN:OE1	2.49	0.45
6:D2:226:MET:HE1	6:D2:464:GLN:HG2	1.99	0.45
6:D3:226:MET:HE1	6:D3:464:GLN:HG2	1.98	0.45
8:F2:173:THR:O	8:F2:177:ARG:NH1	2.50	0.45
11:I1:991:THR:HA	17:O1:271:GLU:HB3	1.91	0.45
11:I1:1030:ARG:CG	20:R1:175:GLN:C	2.85	0.45
11:I2:874:LEU:HG	17:O3:256:TYR:CA	2.45	0.45
11:I2:953:LEU:HB3	15:M3:603:SER:HB2	1.07	0.45
11:I3:656:MET:O	11:I3:659:LYS:NZ	2.45	0.45
11:I4:815:ILE:HG22	26:X3:497:ARG:HB3	1.97	0.45
11:I5:1361:ALA:O	11:I5:1365:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M1:507:GLN:CD	18:P1:318:PRO:CG	2.54	0.45
17:O3:90:HIS:N	17:O3:91:PRO:CD	2.79	0.45
17:O3:147:ALA:C	18:P3:328:PRO:HB2	2.41	0.45
19:Q2:192:GLN:HG2	19:Q2:232:PHE:CD2	2.51	0.45
19:Q4:192:GLN:HG2	19:Q4:232:PHE:CD2	2.51	0.45
21:S1:1013:LEU:HD12	21:S1:1013:LEU:C	2.41	0.45
21:S1:1073:ILE:HD12	21:S1:1073:ILE:C	2.41	0.45
21:S2:682:ASN:HA	21:S2:684:THR:HA	1.98	0.45
21:S3:1020:LEU:HD22	21:S3:1020:LEU:N	2.30	0.45
21:S4:1020:LEU:HD22	21:S4:1020:LEU:N	2.30	0.45
21:S4:1119:LEU:N	21:S4:1120:PRO:CD	2.79	0.45
22:T2:902:GLN:O	22:T2:906:GLU:HG2	2.17	0.45
23:U1:284:SER:O	23:U1:288:ILE:HG12	2.16	0.45
23:U4:219:LEU:HD22	23:U4:227:ILE:HG12	1.98	0.45
24:V2:352:ASP:HB3	24:V2:355:ILE:HD13	1.97	0.45
25:W1:116:LEU:O	25:W1:127:VAL:HA	2.16	0.45
25:W3:257:LEU:HA	25:W3:273:GLY:HA2	1.98	0.45
26:X1:141:ASN:C	26:X1:145:ASN:HD22	2.24	0.45
26:X1:406:LEU:HB2	26:X1:407:PRO:HD3	1.98	0.45
26:X3:141:ASN:C	26:X3:145:ASN:HD22	2.24	0.45
27:Y1:208:LEU:HD11	27:Y1:231:ILE:CD1	2.46	0.45
27:Y2:42:THR:HG22	29:a2:248:ARG:HD2	1.97	0.45
27:Y3:79:LYS:HG2	27:Y3:109:GLY:C	2.41	0.45
27:Y3:140:LEU:O	27:Y3:142:PRO:HD3	2.15	0.45
27:Y4:208:LEU:HD11	27:Y4:231:ILE:CD1	2.46	0.45
28:Z1:247:ASP:HB2	28:Z1:254:ILE:HG13	1.98	0.45
28:Z1:524:VAL:HG13	30:b1:236:THR:C	2.30	0.45
28:Z1:524:VAL:CG1	30:b1:236:THR:CA	2.84	0.45
28:Z2:130:THR:O	28:Z2:150:PHE:HA	2.17	0.45
28:Z3:177:PHE:CD1	28:Z3:183:LEU:HD22	2.51	0.45
28:Z4:561:GLN:HG3	30:b4:237:LEU:N	2.31	0.45
29:a1:286:LEU:C	29:a1:286:LEU:HD23	2.42	0.45
29:a3:286:LEU:C	29:a3:286:LEU:HD23	2.42	0.45
30:b2:279:ARG:NH1	30:b2:327:ASP:OD1	2.43	0.45
30:b3:170:ARG:HD3	30:b3:214:TRP:CZ3	2.51	0.45
30:b3:191:GLN:OE1	30:b3:259:ARG:HD2	2.16	0.45
30:b3:277:TRP:CZ2	30:b3:309:GLY:HA3	2.51	0.45
1:A1:1224:PRO:HD2	2:A2:734:LEU:CD2	2.23	0.45
2:A2:397:LEU:HD12	2:A2:468:GLY:HA3	1.98	0.45
2:A2:968:SER:O	6:D1:203:PRO:HD2	2.17	0.45
2:A2:1121:LEU:HA	3:A5:133:LYS:HG2	1.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1154:PHE:CE2	3:A5:175:GLU:OE1	2.69	0.45
2:A2:1156:ASP:CA	3:A5:175:GLU:N	2.80	0.45
2:A4:978:ASP:OD1	6:D3:463:PHE:CE1	2.69	0.45
2:A4:1121:LEU:HD21	3:A6:133:LYS:CE	2.36	0.45
2:A4:1134:GLU:H	3:A6:145:THR:H	1.63	0.45
2:A4:1151:THR:CG2	3:A6:175:GLU:HG2	2.46	0.45
3:A6:164:LEU:N	5:C4:743:LEU:HD23	2.29	0.45
3:A6:1312:ARG:NH2	28:Z4:841:ALA:C	2.74	0.45
3:A6:1322:ALA:O	28:Z4:911:GLU:HA	2.16	0.45
3:A6:1405:LEU:HD22	28:Z4:921:THR:CB	2.46	0.45
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CD	2.09	0.45
6:D6:440:PHE:CE1	6:D6:444:LEU:HD11	2.50	0.45
6:D7:226:MET:HE1	6:D7:464:GLN:HG2	1.98	0.45
8:F1:1113:LYS:N	8:F1:1114:PRO:HD2	2.32	0.45
8:F1:1801:VAL:O	8:F1:1801:VAL:HG23	2.17	0.45
11:I1:926:SER:OG	15:M1:593:ALA:HB1	2.16	0.45
11:I1:930:LEU:CD1	17:O1:254:ARG:HH22	2.28	0.45
11:I1:931:VAL:HG13	15:M1:604:ASN:OD1	2.08	0.45
11:I1:1036:PRO:CA	16:N1:441:PHE:HE2	2.28	0.45
11:I1:1674:HIS:HD2	11:I2:1635:HIS:HD2	1.63	0.45
11:I2:874:LEU:HA	17:O3:255:GLY:H	1.74	0.45
11:I2:989:GLY:N	15:M3:611:LYS:HB3	2.30	0.45
11:I2:994:ALA:HB3	17:O3:271:GLU:HB3	1.21	0.45
11:I2:1060:PHE:HB3	17:O3:277:GLU:HB3	1.33	0.45
16:N4:284:PRO:HA	16:N4:287:VAL:HG12	1.99	0.45
21:S1:1052:LEU:HA	21:S1:1055:LEU:HD23	1.98	0.45
21:S2:1020:LEU:HD22	21:S2:1020:LEU:N	2.30	0.45
21:S3:1070:LYS:HZ3	21:S3:1121:GLU:HB3	1.82	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:S4:1052:LEU:HA	21:S4:1055:LEU:HD23	1.98	0.45
22:T1:828:TRP:O	22:T1:830:VAL:HG23	2.16	0.45
22:T3:902:GLN:O	22:T3:906:GLU:HG2	2.16	0.45
22:T3:917:ASP:HB2	22:T3:918:PRO:CD	2.47	0.45
23:U4:284:SER:O	23:U4:288:ILE:HG12	2.16	0.45
24:V1:392:TYR:O	24:V1:394:GLN:N	2.44	0.45
25:W2:95:HIS:NE2	25:W2:138:PRO:HB3	2.31	0.45
25:W3:116:LEU:O	25:W3:127:VAL:HA	2.16	0.45
25:W4:16:VAL:HG21	25:W4:59:VAL:O	2.16	0.45
26:X1:392:GLN:HB3	26:X1:393:PRO:HD3	1.96	0.45
26:X2:226:GLN:O	26:X2:230:VAL:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:453:ASP:OD1	26:X3:499:ALA:HB1	2.17	0.45
27:Y2:208:LEU:HD11	27:Y2:231:ILE:CD1	2.47	0.45
27:Y4:119:ALA:C	27:Y4:121:LEU:H	2.25	0.45
27:Y4:144:ASP:C	27:Y4:146:ARG:H	2.24	0.45
28:Z3:247:ASP:HB2	28:Z3:254:ILE:HG13	1.98	0.45
28:Z3:291:LEU:HA	28:Z3:292:PRO:HD3	1.76	0.45
28:Z4:130:THR:O	28:Z4:150:PHE:HA	2.17	0.45
30:b1:156:VAL:HG21	30:b1:214:TRP:CH2	2.51	0.45
2:A2:985:ALA:CB	6:D1:500:LYS:N	2.79	0.45
2:A2:1094:ILE:CG1	6:D2:759:GLN:OE1	2.34	0.45
2:A2:1133:GLU:N	3:A5:138:LEU:HD23	2.30	0.45
2:A2:1139:ILE:HG12	3:A5:131:PRO:HD2	1.98	0.45
1:A3:1195:PHE:O	2:A4:729:SER:HB3	2.16	0.45
2:A4:1094:ILE:CA	6:D4:708:ASP:OD2	2.51	0.45
2:A4:1138:GLU:CA	3:A6:130:ILE:CD1	2.76	0.45
2:A4:1305:ALA:CB	2:A4:1306:PRO:HD3	2.37	0.45
3:A5:1365:VAL:CG1	28:Z2:833:ASP:N	2.79	0.45
3:A6:177:ILE:CA	5:C4:740:ARG:NH1	2.59	0.45
3:A6:1363:ASP:N	28:Z4:869:HIS:O	2.49	0.45
4:B6:345:LYS:C	5:C4:737:LYS:CD	2.87	0.45
6:D2:646:LEU:HD22	6:D2:696:ILE:HD11	1.98	0.45
6:D4:226:MET:HE1	6:D4:464:GLN:HG2	1.98	0.45
6:D5:436:THR:HG23	6:D5:439:GLN:H	1.81	0.45
6:D7:180:ASN:H	11:I3:52:ASP:HB2	1.54	0.45
6:D7:436:THR:HG23	6:D7:439:GLN:H	1.81	0.45
8:F1:1094:GLY:C	17:O2:237:PRO:CA	2.88	0.45
8:F1:1135:ARG:NE	17:O2:249:ARG:HG3	2.32	0.45
8:F2:689:ARG:O	8:F2:699:ARG:N	2.40	0.45
8:F2:1133:ARG:NH2	8:F2:1194:ASP:OD1	2.49	0.45
11:I1:918:SER:OG	16:N1:389:PHE:CB	2.61	0.45
11:I1:924:ILE:HG13	15:M1:592:LEU:O	2.01	0.45
11:I1:984:GLU:CB	15:M1:618:GLN:CG	2.87	0.45
11:I1:1013:GLU:OE1	11:I1:1013:GLU:N	2.41	0.45
11:I1:1022:LEU:H	16:N1:409:ALA:CB	2.28	0.45
11:I1:1034:ASP:HB2	16:N1:444:SER:OG	2.17	0.45
11:I1:1037:THR:CA	20:R1:169:GLY:HA2	2.15	0.45
11:I1:1042:LEU:CB	20:R1:170:LEU:HD11	2.43	0.45
11:I1:1051:LYS:C	11:I1:1052:LEU:HD12	2.40	0.45
11:I1:1070:LEU:CB	16:N1:429:GLU:HB3	2.44	0.45
11:I1:1116:ASP:OD2	12:J1:241:THR:HG21	2.17	0.45
11:I2:828:VAL:HG12	17:O3:237:PRO:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:873:ILE:HG22	17:O3:255:GLY:CA	2.41	0.45
11:I2:877:ILE:CB	17:O3:252:VAL:C	2.89	0.45
11:I2:955:LYS:HG3	16:N3:403:VAL:CB	2.46	0.45
11:I2:965:ALA:H	20:R3:165:SER:CB	2.29	0.45
11:I2:1109:LEU:CG	17:O3:290:TYR:CD2	2.85	0.45
11:I2:1114:VAL:HG21	16:N3:436:ALA:N	2.27	0.45
11:I3:1276:GLN:NE2	26:X1:534:ILE:C	2.74	0.45
11:I4:504:ALA:CB	11:I4:508:LEU:HD23	2.46	0.45
11:I5:1276:GLN:NE2	26:X2:522:MET:C	2.61	0.45
17:O2:90:HIS:N	17:O2:91:PRO:CD	2.79	0.45
21:S1:626:SER:O	21:S1:627:PHE:C	2.60	0.45
21:S4:1073:ILE:HD12	21:S4:1073:ILE:C	2.41	0.45
22:T1:702:SER:HB3	22:T1:704:LYS:HE3	1.97	0.45
22:T2:702:SER:HB3	22:T2:704:LYS:HE3	1.97	0.45
22:T4:828:TRP:O	22:T4:830:VAL:HG23	2.16	0.45
25:W2:116:LEU:O	25:W2:127:VAL:HA	2.16	0.45
25:W4:16:VAL:HG23	25:W4:59:VAL:HG23	1.98	0.45
25:W4:95:HIS:NE2	25:W4:138:PRO:HB3	2.31	0.45
26:X1:97:ARG:HB3	26:X1:97:ARG:NH1	2.32	0.45
26:X2:97:ARG:NH2	26:X2:411:SER:O	2.50	0.45
26:X3:51:MET:HB3	27:Y3:346:THR:C	2.41	0.45
26:X3:153:ASN:HA	26:X3:156:GLU:OE1	2.16	0.45
26:X4:97:ARG:HB3	26:X4:97:ARG:NH1	2.32	0.45
26:X4:186:ARG:HG3	26:X4:190:PHE:HB2	1.97	0.45
27:Y1:41:ASP:HA	29:a1:231[B]:HIS:NE2	2.17	0.45
27:Y1:144:ASP:C	27:Y1:146:ARG:H	2.24	0.45
28:Z2:291:LEU:HA	28:Z2:292:PRO:HD3	1.76	0.45
28:Z3:130:THR:O	28:Z3:150:PHE:HA	2.17	0.45
28:Z3:401:THR:CB	30:b3:253:SER:CA	2.80	0.45
28:Z4:561:GLN:CG	30:b4:237:LEU:H	2.28	0.45
30:b1:11:PRO:HB2	30:b1:14:VAL:CG2	2.47	0.45
30:b2:147:SER:OG	30:b2:148:ALA:N	2.48	0.45
30:b4:11:PRO:HB2	30:b4:14:VAL:CG2	2.47	0.45
1:A1:861:GLN:HB2	1:A1:882:SER:HB3	1.99	0.45
2:A2:870:HIS:CA	6:D1:566:PHE:O	2.65	0.45
2:A2:1347:SER:O	2:A2:1348:GLU:C	2.60	0.45
2:A4:782:VAL:HG22	6:D3:677:GLN:CA	2.38	0.45
2:A4:872:ALA:HB1	6:D3:565:MET:CB	2.46	0.45
2:A4:1122:LEU:CD1	3:A6:132:ASP:O	2.65	0.45
2:A4:1152:ASP:CG	3:A6:171:HIS:HB3	2.42	0.45
3:A5:1396:GLY:HA3	28:Z2:908:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1364:GLN:O	28:Z4:845:ILE:C	2.51	0.45
6:D1:423:PHE:O	6:D1:424:ASP:C	2.60	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:D4:382:ASN:OD1	6:D4:383:THR:N	2.50	0.45
6:D5:226:MET:HE1	6:D5:464:GLN:HG2	1.98	0.45
6:D7:382:ASN:OD1	6:D7:383:THR:N	2.50	0.45
8:F1:173:THR:O	8:F1:177:ARG:NH1	2.50	0.45
11:I1:921:GLU:HA	15:M1:596:ILE:CG1	2.44	0.45
11:I1:964:SER:N	20:R1:165:SER:HB2	2.29	0.45
11:I1:966:TRP:CA	20:R1:154:ALA:HB2	2.16	0.45
11:I1:1113:LEU:CA	16:N1:435:ALA:CB	2.89	0.45
11:I1:1611:PHE:C	11:I2:1673:VAL:H	1.94	0.45
11:I1:1664:PHE:CE2	11:I2:1668:HIS:C	2.89	0.45
11:I2:882:LYS:CG	17:O3:249:ARG:CA	2.83	0.45
11:I2:944:GLU:CB	17:O3:256:TYR:CE1	2.96	0.45
11:I2:980:ILE:CA	15:M3:618:GLN:HG3	2.46	0.45
11:I2:1048:GLU:HB2	17:O3:284:LYS:CG	2.47	0.45
11:I2:1055:GLU:O	17:O3:278:GLU:HB2	2.15	0.45
11:I3:1116:ASP:OD2	12:J3:241:THR:HG21	2.17	0.45
11:I4:1314:LEU:O	11:I4:1314:LEU:HD23	2.17	0.45
19:Q3:192:GLN:HG2	19:Q3:232:PHE:CD2	2.51	0.45
21:S3:619:GLY:HA2	21:S3:620:LEU:CB	2.47	0.45
21:S3:1127:GLN:C	21:S3:1129:ASP:N	2.74	0.45
22:T1:777:ILE:O	22:T1:780:PRO:HG3	2.15	0.45
22:T3:828:TRP:O	22:T3:830:VAL:HG23	2.16	0.45
22:T4:902:GLN:O	22:T4:906:GLU:HG2	2.17	0.45
23:U2:264:TYR:O	23:U2:268:SER:OG	2.34	0.45
23:U4:143:LYS:HG3	23:U4:144:TRP:N	2.32	0.45
23:U4:293:ILE:HD11	23:U4:327:VAL:HG21	1.97	0.45
24:V1:352:ASP:HB3	24:V1:355:ILE:HD13	1.97	0.45
25:W2:16:VAL:HG23	25:W2:59:VAL:HG23	1.98	0.45
25:W2:257:LEU:HA	25:W2:273:GLY:HA2	1.98	0.45
25:W3:95:HIS:NE2	25:W3:138:PRO:HB3	2.31	0.45
26:X3:97:ARG:NH2	26:X3:411:SER:O	2.50	0.45
26:X4:406:LEU:HB2	26:X4:407:PRO:HD3	1.98	0.45
27:Y1:296:LEU:HD21	27:Y1:299:GLU:HG3	1.98	0.45
27:Y2:79:LYS:HG2	27:Y2:109:GLY:C	2.41	0.45
27:Y2:144:ASP:C	27:Y2:146:ARG:H	2.24	0.45
28:Z1:177:PHE:CD1	28:Z1:183:LEU:HD22	2.51	0.45
28:Z2:400:LYS:O	30:b2:252:ALA:HB2	2.12	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:401:THR:CB	30:b2:253:SER:CA	2.79	0.45
28:Z2:406:ARG:HG3	30:b2:252:ALA:HB2	1.88	0.45
28:Z2:407:GLY:CA	30:b2:251:ILE:CG1	2.89	0.45
28:Z2:521:SER:O	30:b2:238:ASN:CB	2.65	0.45
28:Z2:643:ASP:OD2	28:Z2:646:ILE:HG13	2.17	0.45
28:Z3:551:THR:HG22	30:b3:233:TRP:HZ3	0.63	0.45
28:Z3:556:ASN:OD1	30:b3:202:VAL:HG21	2.17	0.45
28:Z3:623:LEU:HD23	28:Z3:623:LEU:HA	1.74	0.45
28:Z4:218:SER:OG	28:Z4:219:ASP:N	2.50	0.45
28:Z4:401:THR:CB	30:b4:253:SER:CA	2.79	0.45
28:Z4:521:SER:O	30:b4:238:ASN:HB3	2.13	0.45
28:Z4:530:LYS:HB2	30:b4:185:SER:HB3	0.81	0.45
28:Z4:556:ASN:OD1	30:b4:202:VAL:HG21	2.17	0.45
29:a1:214[B]:THR:HG21	29:a1:252[B]:MET:HE2	1.98	0.45
30:b2:39:GLY:HA2	30:b2:66:THR:OG1	2.15	0.45
30:b2:53:SER:O	30:b2:384:ARG:HD3	2.17	0.45
1:A1:1200:ARG:HB3	2:A2:727:ASN:HA	1.98	0.45
1:A1:1201:ARG:HD2	2:A2:734:LEU:CG	2.47	0.45
2:A2:241:VAL:HG11	2:A2:287:LYS:HB3	1.98	0.45
2:A2:867:GLU:CB	6:D1:609:ILE:HG12	2.40	0.45
2:A2:1126:VAL:HA	3:A5:134:VAL:O	2.17	0.45
2:A2:1138:GLU:HG3	3:A5:562:LEU:CD1	2.47	0.45
2:A4:780:GLU:HG2	6:D3:679:ILE:HA	1.97	0.45
2:A4:909:LYS:HE2	6:D3:552:TYR:HD2	1.24	0.45
2:A4:1137:ALA:N	3:A6:138:LEU:HD13	1.83	0.45
2:A4:1155:ASN:HD21	5:C4:735:ILE:HG23	1.81	0.45
3:A6:1393:THR:CB	28:Z4:904:PHE:O	2.56	0.45
3:A6:1405:LEU:HD23	28:Z4:919:PHE:C	2.36	0.45
6:D5:423:PHE:O	6:D5:424:ASP:C	2.60	0.45
8:F2:535:ILE:HG13	8:F2:536:PRO:HD2	1.99	0.45
11:I1:837:MET:HE2	17:O1:242:ARG:HB2	1.16	0.45
11:I1:894:VAL:CG1	17:O1:238:ALA:H	2.30	0.45
11:I1:1071:LEU:CA	16:N1:429:GLU:HG3	2.44	0.45
11:I2:840:LEU:HG	17:O3:244:GLU:CG	2.38	0.45
11:I2:887:GLN:HB2	16:N3:393:ILE:CD1	2.47	0.45
11:I2:948:ALA:N	17:O3:256:TYR:HB3	2.30	0.45
11:I2:981:VAL:CB	20:R3:147:LEU:HD23	2.10	0.45
11:I2:1028:CYS:HA	20:R3:168:LEU:HB3	1.98	0.45
11:I2:1116:ASP:OD2	12:J2:241:THR:HG21	2.17	0.45
11:I3:1314:LEU:O	11:I3:1314:LEU:HD23	2.17	0.45
11:I4:1271:GLU:CA	26:X3:525:ILE:O	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O1:90:HIS:N	17:O1:91:PRO:CD	2.79	0.45
21:S2:184:ILE:CD1	21:S2:201:VAL:HG23	2.45	0.45
21:S2:934:HIS:C	21:S2:934:HIS:CD2	2.94	0.45
21:S2:1124:ASP:OD1	21:S2:1124:ASP:C	2.59	0.45
21:S3:1124:ASP:OD1	21:S3:1124:ASP:C	2.58	0.45
21:S4:699:ILE:C	21:S4:701:GLU:H	2.24	0.45
23:U1:81:LEU:HD13	23:U1:85:ARG:NH2	2.32	0.45
23:U2:284:SER:O	23:U2:288:ILE:HG12	2.16	0.45
23:U3:219:LEU:HD22	23:U3:227:ILE:HG12	1.98	0.45
24:V2:393:GLY:O	24:V2:394:GLN:HB2	2.17	0.45
24:V3:173:ILE:HD11	25:W3:43:HIS:HD2	1.82	0.45
26:X3:268:SER:HB2	26:X3:269:ASP:OD1	2.17	0.45
26:X4:97:ARG:NH2	26:X4:411:SER:O	2.50	0.45
26:X4:141:ASN:C	26:X4:145:ASN:HD22	2.24	0.45
28:Z2:436:HIS:NE2	28:Z2:438:GLU:HB2	2.31	0.45
28:Z2:551:THR:HG22	30:b2:233:TRP:HZ3	0.63	0.45
28:Z3:401:THR:CA	30:b3:253:SER:C	2.67	0.45
28:Z4:438:GLU:CB	30:b4:333:HIS:CE1	2.99	0.45
28:Z4:561:GLN:HB2	30:b4:235:LEU:CA	2.45	0.45
30:b2:21:TRP:CZ2	30:b2:373:ALA:HB2	2.52	0.45
30:b3:53:SER:O	30:b3:384:ARG:HD3	2.17	0.45
30:b3:243:VAL:O	30:b3:245:THR:OG1	2.34	0.45
30:b3:302:ASN:O	30:b3:303:LEU:HD23	2.17	0.45
30:b4:192:PHE:CE1	30:b4:200:LEU:HD22	2.52	0.45
30:b4:277:TRP:CZ2	30:b4:309:GLY:HA3	2.51	0.45
1:A1:1332:ARG:C	6:D1:637:LYS:HD3	2.41	0.45
1:A1:1399:ARG:HE	2:A2:887:GLU:HB2	1.82	0.45
2:A2:705:ILE:N	2:A2:706:PRO:HD2	2.32	0.45
2:A2:828:ALA:O	2:A2:867:GLU:OE1	2.34	0.45
2:A2:868:GLN:CB	6:D1:598:ILE:CD1	2.86	0.45
2:A2:876:ARG:NE	6:D1:559:ASP:H	2.15	0.45
2:A2:979:GLY:N	6:D1:496:LEU:HD13	2.21	0.45
2:A2:1164:TYR:HD1	4:B5:342:ARG:CD	1.96	0.45
1:A3:861:GLN:HB2	1:A3:882:SER:HB3	1.99	0.45
1:A3:1228:TYR:N	2:A4:728:LYS:HE2	1.54	0.45
2:A4:705:ILE:N	2:A4:706:PRO:HD2	2.32	0.45
3:A5:1027:HIS:HE1	11:I5:65:LYS:HE2	1.82	0.45
3:A6:1331:GLU:OE2	28:Z4:952:ASN:CB	2.65	0.45
3:A6:1365:VAL:CB	28:Z4:871:HIS:CB	2.87	0.45
6:D2:523:LEU:C	6:D2:523:LEU:HD12	2.42	0.45
6:D3:781:ARG:NH1	6:D3:784:GLN:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:523:LEU:C	6:D5:523:LEU:HD12	2.42	0.45
6:D7:523:LEU:HD12	6:D7:523:LEU:C	2.42	0.45
11:I1:656:MET:O	11:I1:659:LYS:NZ	2.44	0.45
11:I1:899:LEU:HD21	17:O1:231:ASP:CG	2.38	0.45
11:I1:1031:ALA:HB3	20:R1:168:LEU:HD22	1.99	0.45
11:I2:927:HIS:HE2	15:M3:594:LYS:HG3	1.81	0.45
11:I2:928:LEU:C	15:M3:601:ASP:OD1	2.60	0.45
11:I2:1045:PHE:CD1	17:O3:279:ILE:CG2	2.99	0.45
11:I2:1108:PRO:C	17:O3:290:TYR:OH	2.60	0.45
11:I3:1267:LEU:HD11	26:X1:529:TRP:HE3	0.69	0.45
21:S1:449:ASP:HB2	21:S1:467:ASN:ND2	2.31	0.45
21:S2:1027:THR:OG1	21:S2:1029:PRO:HD2	2.16	0.45
21:S2:1073:ILE:HD12	21:S2:1073:ILE:C	2.41	0.45
21:S4:1001:PHE:HB2	21:S4:1057:TYR:CE1	2.51	0.45
22:T2:822:LEU:HD22	22:T2:886:HIS:CE1	2.52	0.45
22:T4:685:ARG:NH2	22:T4:716:PRO:HG2	2.32	0.45
23:U3:207:SER:O	23:U3:211:ILE:HG13	2.15	0.45
23:U4:116:LEU:O	23:U4:119:ILE:HB	2.17	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	2.16	0.45
26:X1:453:ASP:OD1	26:X1:499:ALA:HB1	2.17	0.45
26:X2:153:ASN:HA	26:X2:156:GLU:OE1	2.16	0.45
26:X3:97:ARG:HB3	26:X3:97:ARG:NH1	2.32	0.45
26:X3:141:ASN:C	26:X3:145:ASN:ND2	2.74	0.45
26:X4:198:GLU:HG2	26:X4:300:SER:CB	2.47	0.45
28:Z1:561:GLN:HB2	30:b1:235:LEU:CA	2.45	0.45
28:Z1:643:ASP:OD2	28:Z1:646:ILE:HG13	2.17	0.45
28:Z3:218:SER:OG	28:Z3:219:ASP:N	2.50	0.45
28:Z4:438:GLU:HG3	30:b4:333:HIS:HE1	1.77	0.45
29:a2:286:LEU:C	29:a2:286:LEU:HD23	2.42	0.45
1:A1:1203:TYR:N	2:A2:730:THR:C	2.74	0.45
2:A2:948:ALA:O	2:A2:952:ARG:HG3	2.17	0.45
2:A2:967:GLU:CA	6:D1:202:GLN:OE1	2.51	0.45
2:A2:977:VAL:HG21	6:D1:490:VAL:O	2.17	0.45
2:A2:1255:LEU:HB3	2:A2:1256:PRO:HD3	1.97	0.45
2:A2:1344:ALA:O	2:A2:1345:SER:HB2	2.16	0.45
2:A4:826:ASN:OD1	6:D3:633:LYS:HB2	2.14	0.45
2:A4:877:ALA:C	6:D3:563:GLU:HA	2.27	0.45
2:A4:1023:ILE:CG2	2:A4:1025:SER:HB3	2.47	0.45
2:A4:1040:PHE:CD1	2:A4:1040:PHE:C	2.95	0.45
2:A4:1289:HIS:CE1	2:A4:1329:GLU:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1094:ILE:HG22	11:I5:4:LEU:O	2.17	0.45
3:A5:1370:ALA:N	28:Z2:825:TYR:C	2.72	0.45
3:A6:1311:ARG:CA	28:Z4:830:LEU:CB	2.91	0.45
3:A6:1414:PHE:CA	28:Z4:963:LYS:C	2.75	0.45
6:D1:523:LEU:C	6:D1:523:LEU:HD12	2.42	0.45
6:D1:587:LEU:HD13	6:D1:631:LEU:HA	1.99	0.45
6:D3:423:PHE:O	6:D3:424:ASP:C	2.60	0.45
6:D4:436:THR:HG23	6:D4:439:GLN:H	1.82	0.45
6:D5:192:TYR:OH	6:D5:498:GLU:OE1	2.33	0.45
6:D5:482:MET:SD	6:D5:482:MET:N	2.90	0.45
6:D6:436:THR:HG23	6:D6:439:GLN:H	1.82	0.45
6:D6:482:MET:N	6:D6:482:MET:SD	2.90	0.45
8:F1:1261:TYR:HD2	17:O2:259:ASP:C	2.08	0.45
8:F2:1113:LYS:N	8:F2:1114:PRO:HD2	2.32	0.45
8:F2:1801:VAL:O	8:F2:1801:VAL:HG23	2.17	0.45
11:I1:959:SER:OG	16:N1:395:GLU:HB3	2.09	0.45
11:I1:1014:ASN:HB3	16:N1:414:ALA:N	2.32	0.45
11:I1:1035:GLN:C	15:M1:623:LEU:O	2.59	0.45
11:I1:1083:GLU:OE1	11:I1:1083:GLU:N	2.42	0.45
11:I1:1108:PRO:HG3	16:N1:444:SER:N	2.32	0.45
11:I1:1663:LYS:HB2	11:I2:1663:LYS:HZ3	1.80	0.45
11:I2:953:LEU:HD22	15:M3:603:SER:OG	1.96	0.45
11:I2:1048:GLU:C	17:O3:287:LEU:CB	2.64	0.45
11:I3:1015:TYR:OH	11:I3:1089:TYR:O	2.31	0.45
11:I4:1361:ALA:O	11:I4:1365:ALA:N	2.50	0.45
11:I5:1426:SER:CB	12:J5:263:MET:SD	3.04	0.45
21:S2:1016:LYS:NZ	21:S2:1039:GLU:HG3	2.31	0.45
22:T1:887:LYS:HB3	22:T1:890:LEU:HD12	1.98	0.45
22:T1:902:GLN:O	22:T1:906:GLU:HG2	2.17	0.45
22:T3:822:LEU:HD22	22:T3:886:HIS:CE1	2.52	0.45
22:T3:891:VAL:O	22:T3:891:VAL:HG12	2.17	0.45
23:U2:116:LEU:O	23:U2:119:ILE:HB	2.17	0.45
23:U3:116:LEU:O	23:U3:119:ILE:HB	2.17	0.45
24:V1:173:ILE:HD11	25:W1:43:HIS:HD2	1.82	0.45
24:V1:513:MET:HG2	24:V1:541:ALA:HB2	1.99	0.45
25:W3:16:VAL:HG21	25:W3:59:VAL:O	2.16	0.45
25:W4:273:GLY:C	25:W4:275:ASP:H	2.25	0.45
26:X3:198:GLU:HG2	26:X3:300:SER:CB	2.47	0.45
27:Y3:31:GLN:OE1	27:Y3:52:ARG:NH1	2.50	0.45
28:Z1:438:GLU:HB2	30:b1:333:HIS:CE1	2.48	0.45
28:Z2:499:SER:O	28:Z2:500:GLU:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:521:SER:O	30:b2:238:ASN:HB3	2.13	0.45
28:Z2:528:ILE:CG1	30:b2:210:ARG:CZ	2.52	0.45
28:Z2:560:ASN:HD22	30:b2:211:ILE:CG2	2.19	0.45
28:Z4:247:ASP:HB2	28:Z4:254:ILE:HG13	1.98	0.45
30:b4:156:VAL:HG21	30:b4:214:TRP:CH2	2.52	0.45
1:A1:874:VAL:HG13	6:D3:272:VAL:CB	2.37	0.45
2:A2:780:GLU:O	6:D1:676:ALA:N	2.47	0.45
2:A2:983:LEU:CB	6:D1:553:PHE:CB	2.74	0.45
2:A2:989:MSE:CA	6:D1:500:LYS:HE2	2.39	0.45
2:A2:992:TYR:CG	6:D1:238:ALA:CB	2.99	0.45
1:A3:939:LYS:N	1:A3:940:PRO:HD3	2.32	0.45
2:A4:864:ARG:HH12	6:D3:610:ASN:ND2	2.15	0.45
2:A4:908:LEU:HD23	6:D3:601:PHE:O	2.13	0.45
2:A4:974:PRO:N	6:D3:499:LEU:HG	2.31	0.45
2:A4:1167:CYS:CB	4:B6:342:ARG:HE	2.23	0.45
3:A6:232:LEU:HD12	5:C4:739:MET:HG3	1.28	0.45
3:A6:1364:GLN:C	28:Z4:845:ILE:C	2.85	0.45
6:D1:436:THR:HG23	6:D1:439:GLN:H	1.82	0.45
6:D2:436:THR:HG23	6:D2:439:GLN:H	1.82	0.45
6:D4:423:PHE:O	6:D4:424:ASP:C	2.60	0.45
6:D4:646:LEU:HD22	6:D4:696:ILE:HD11	1.99	0.45
6:D5:650:VAL:HB	6:D5:651:PRO:HD3	1.99	0.45
6:D7:482:MET:N	6:D7:482:MET:SD	2.90	0.45
8:F1:535:ILE:HG13	8:F1:536:PRO:HD2	1.99	0.45
9:G1:254:ASN:ND2	17:O2:261:LYS:NZ	2.65	0.45
11:I1:894:VAL:CG2	17:O1:238:ALA:HB2	2.36	0.45
11:I1:911:PRO:HB2	15:M1:584:GLN:CD	2.37	0.45
11:I1:923:GLY:HA2	15:M1:590:LYS:CA	2.39	0.45
11:I1:946:THR:HG21	17:O1:260:LEU:C	2.08	0.45
11:I1:1033:PRO:HG2	20:R1:177:LEU:HD13	1.52	0.45
11:I1:1038:ILE:CG1	20:R1:167:GLN:CG	2.95	0.45
11:I1:1049:LEU:O	17:O1:291:ASP:HB2	2.17	0.45
11:I1:1056:PRO:HA	17:O1:278:GLU:HB2	0.65	0.45
11:I1:1060:PHE:O	16:N1:431:VAL:HG21	2.16	0.45
11:I1:1666:THR:HG22	11:I2:1664:PHE:HB2	1.98	0.45
11:I2:881:ILE:HD12	17:O3:253:LEU:N	2.32	0.45
11:I2:921:GLU:O	15:M3:596:ILE:CD1	2.24	0.45
11:I2:1055:GLU:HA	17:O3:281:ALA:HB2	1.99	0.45
11:I4:1273:GLU:HB2	26:X3:527:VAL:HB	1.02	0.45
17:O4:90:HIS:N	17:O4:91:PRO:CD	2.79	0.45
21:S1:1119:LEU:C	21:S1:1121:GLU:N	2.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1149:GLU:C	21:S2:1151:TYR:H	2.25	0.45
21:S3:1149:GLU:C	21:S3:1151:TYR:H	2.25	0.45
21:S4:1039:GLU:HG2	21:S4:1039:GLU:H	1.59	0.45
21:S4:1127:GLN:C	21:S4:1129:ASP:N	2.74	0.45
22:T1:685:ARG:NH2	22:T1:716:PRO:HG2	2.32	0.45
22:T1:851:LYS:HB3	22:T1:851:LYS:HE2	1.76	0.45
22:T4:887:LYS:HB3	22:T4:890:LEU:HD12	1.98	0.45
25:W3:16:VAL:HG23	25:W3:59:VAL:HG23	1.98	0.45
26:X1:198:GLU:HG2	26:X1:300:SER:CB	2.47	0.45
26:X4:268:SER:O	26:X4:272:PRO:HG2	2.16	0.45
27:Y2:7:GLY:C	27:Y2:34:LYS:HE3	2.42	0.45
27:Y2:296:LEU:HD21	27:Y2:299:GLU:HG3	1.98	0.45
27:Y3:7:GLY:C	27:Y3:34:LYS:HE3	2.42	0.45
27:Y3:208:LEU:HD11	27:Y3:231:ILE:CD1	2.47	0.45
27:Y4:41:ASP:O	29:a4:231[B]:HIS:NE2	2.45	0.45
28:Z1:556:ASN:OD1	30:b1:202:VAL:HG21	2.17	0.45
28:Z2:556:ASN:OD1	30:b2:202:VAL:HG21	2.17	0.45
28:Z3:524:VAL:CG1	30:b3:236:THR:CA	2.84	0.45
28:Z4:352:ILE:HD13	28:Z4:471:ILE:HG12	1.99	0.45
29:a3:214[B]:THR:HG21	29:a3:252[B]:MET:HE2	1.98	0.45
30:b1:21:TRP:CZ2	30:b1:373:ALA:HB2	2.52	0.45
30:b2:192:PHE:CE1	30:b2:200:LEU:HD22	2.52	0.45
30:b3:21:TRP:CZ2	30:b3:373:ALA:HB2	2.52	0.45
30:b4:53:SER:O	30:b4:384:ARG:HD3	2.17	0.45
1:A1:1202:GLU:CA	2:A2:729:SER:O	2.62	0.44
2:A2:876:ARG:NH1	6:D1:563:GLU:HB2	2.33	0.44
2:A2:980:ARG:HB3	6:D1:502:LEU:HG	1.54	0.44
2:A2:1040:PHE:C	2:A2:1040:PHE:CD1	2.95	0.44
2:A2:1141:GLU:HB3	3:A5:130:ILE:N	2.32	0.44
1:A3:199:PHE:HA	4:B3:353:LEU:HA	1.99	0.44
1:A3:1052:THR:HG1	6:D3:816:VAL:CG2	2.28	0.44
1:A3:1091:VAL:CG1	6:D3:801:TYR:CZ	3.00	0.44
1:A3:1201:ARG:HB3	2:A4:735:ALA:H	0.66	0.44
3:A5:149:LEU:H	5:C2:747:PRO:HB2	1.11	0.44
3:A5:994:VAL:O	11:I5:61:LYS:CB	2.65	0.44
3:A5:999:SER:CA	11:I5:63:PRO:HD2	2.47	0.44
3:A6:199:PHE:HA	4:B6:353:LEU:HA	2.00	0.44
3:A6:1362:ALA:HB3	28:Z4:874:ASN:N	2.31	0.44
6:D1:382:ASN:OD1	6:D1:383:THR:N	2.50	0.44
6:D3:382:ASN:OD1	6:D3:383:THR:N	2.50	0.44
8:F1:1643:CYS:SG	8:F1:1644:ASP:N	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:876:ALA:HA	17:O1:248:SER:HA	1.98	0.44
11:I1:930:LEU:HB3	15:M1:601:ASP:H	1.81	0.44
11:I1:966:TRP:HA	20:R1:154:ALA:CB	2.47	0.44
11:I1:988:GLU:O	15:M1:608:LYS:C	2.60	0.44
11:I1:1027:ALA:O	20:R1:172:ASP:C	2.55	0.44
11:I1:1063:GLN:O	16:N1:428:ASP:OD2	2.31	0.44
11:I1:1108:PRO:HG2	16:N1:441:PHE:C	2.42	0.44
11:I2:1035:GLN:HG2	15:M3:625:GLY:N	2.25	0.44
11:I2:1083:GLU:OE1	11:I2:1083:GLU:N	2.42	0.44
11:I4:1273:GLU:O	26:X3:523:LEU:N	2.48	0.44
17:O3:162:LYS:CG	18:P3:315:GLU:HB3	2.42	0.44
21:S2:619:GLY:HA2	21:S2:620:LEU:CB	2.47	0.44
21:S4:948:LYS:HB2	21:S4:948:LYS:HE3	1.72	0.44
21:S4:1027:THR:OG1	21:S4:1029:PRO:HD2	2.16	0.44
21:S4:1120:PRO:CD	21:S4:1155:GLN:HE22	2.19	0.44
23:U1:143:LYS:HG3	23:U1:144:TRP:N	2.32	0.44
24:V1:178:THR:HG22	24:V1:180:LEU:H	1.81	0.44
24:V2:263:LYS:HD3	24:V2:263:LYS:HA	1.75	0.44
24:V2:483:GLU:OE2	24:V2:514:ARG:NH2	2.35	0.44
24:V3:187:ASP:OD1	24:V3:187:ASP:C	2.60	0.44
24:V3:393:GLY:O	24:V3:394:GLN:HB2	2.17	0.44
24:V4:393:GLY:O	24:V4:394:GLN:HB2	2.17	0.44
26:X4:152:LEU:CD2	26:X4:182:LEU:HB3	2.43	0.44
26:X4:268:SER:HB2	26:X4:269:ASP:OD1	2.17	0.44
27:Y2:124:LYS:HG3	27:Y2:138:ASP:OD1	2.17	0.44
27:Y3:124:LYS:HG3	27:Y3:138:ASP:OD1	2.17	0.44
27:Y3:296:LEU:HD21	27:Y3:299:GLU:HG3	1.98	0.44
28:Z1:130:THR:O	28:Z1:150:PHE:HA	2.16	0.44
28:Z4:438:GLU:OE1	30:b4:333:HIS:CG	2.69	0.44
28:Z4:521:SER:O	30:b4:238:ASN:CB	2.65	0.44
28:Z4:527:SER:C	30:b4:184:SER:HG	2.24	0.44
28:Z4:643:ASP:OD2	28:Z4:646:ILE:HG13	2.17	0.44
30:b1:302:ASN:O	30:b1:303:LEU:HD23	2.17	0.44
30:b3:156:VAL:HG21	30:b3:214:TRP:CH2	2.52	0.44
30:b4:170:ARG:HD3	30:b4:214:TRP:CZ3	2.51	0.44
1:A1:870:HIS:HB3	6:D3:279:HIS:C	2.07	0.44
2:A2:865:ALA:CA	6:D1:607:PRO:HD2	2.32	0.44
2:A2:973:GLU:HB3	6:D1:498:GLU:HB2	1.98	0.44
1:A3:1088:ASN:C	6:D3:808:ASN:HD22	2.24	0.44
3:A5:997:ASP:H	11:I5:61:LYS:HB2	1.82	0.44
3:A5:1024:ASP:O	11:I5:68:ILE:HD12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:171:HIS:CE1	5:C4:730:HIS:CD2	2.90	0.44
3:A6:1361:ARG:CZ	28:Z4:876:LEU:HA	2.43	0.44
6:D1:650:VAL:HB	6:D1:651:PRO:HD3	1.99	0.44
6:D3:482:MET:SD	6:D3:482:MET:N	2.90	0.44
6:D5:781:ARG:NH1	6:D5:784:GLN:OE1	2.49	0.44
6:D6:382:ASN:OD1	6:D6:383:THR:N	2.50	0.44
6:D7:587:LEU:HD13	6:D7:631:LEU:HA	1.99	0.44
8:F1:1261:TYR:CZ	17:O2:260:LEU:C	2.90	0.44
8:F2:1135:ARG:HD3	17:O4:252:VAL:HG13	1.30	0.44
11:I1:840:LEU:HD21	17:O1:244:GLU:HA	0.85	0.44
11:I1:841:PHE:CE2	15:M1:588:MET:HE1	2.50	0.44
11:I1:853:ILE:CG2	17:O1:254:ARG:CG	2.87	0.44
11:I1:874:LEU:HA	17:O1:252:VAL:CA	2.47	0.44
11:I1:965:ALA:C	20:R1:153:GLN:NE2	2.76	0.44
11:I1:1048:GLU:O	15:M1:626:HIS:CE1	2.67	0.44
11:I1:1333:THR:N	11:I1:1334:PRO:CD	2.81	0.44
11:I1:1664:PHE:HB2	11:I2:1666:THR:HG22	1.98	0.44
11:I2:932:VAL:HG13	15:M3:612:PRO:CG	2.47	0.44
11:I2:1036:PRO:HD2	15:M3:626:HIS:HB2	1.99	0.44
11:I2:1048:GLU:N	17:O3:284:LYS:HA	2.31	0.44
11:I2:1333:THR:N	11:I2:1334:PRO:CD	2.81	0.44
11:I5:1116:ASP:OD2	12:J5:241:THR:HG21	2.17	0.44
21:S4:1149:GLU:C	21:S4:1151:TYR:H	2.25	0.44
22:T1:675:ILE:HD13	22:T1:675:ILE:HA	1.87	0.44
22:T3:887:LYS:HB3	22:T3:890:LEU:HD12	1.98	0.44
22:T4:891:VAL:O	22:T4:891:VAL:HG12	2.17	0.44
23:U3:81:LEU:HD13	23:U3:85:ARG:NH2	2.32	0.44
23:U4:81:LEU:HD13	23:U4:85:ARG:NH2	2.32	0.44
24:V2:173:ILE:HD11	25:W2:43:HIS:HD2	1.82	0.44
25:W1:16:VAL:HG23	25:W1:59:VAL:HG23	1.98	0.44
25:W4:116:LEU:O	25:W4:127:VAL:HA	2.16	0.44
26:X2:97:ARG:HB3	26:X2:97:ARG:NH1	2.32	0.44
26:X3:268:SER:O	26:X3:272:PRO:HG2	2.16	0.44
27:Y1:119:ALA:C	27:Y1:121:LEU:H	2.25	0.44
28:Z1:436:HIS:NE2	28:Z1:438:GLU:HB2	2.31	0.44
28:Z1:499:SER:O	28:Z1:500:GLU:C	2.60	0.44
28:Z1:658:HIS:HA	28:Z1:661:GLN:OE1	2.18	0.44
28:Z3:438:GLU:CB	30:b3:333:HIS:CE1	2.99	0.44
28:Z3:521:SER:O	30:b3:238:ASN:CB	2.65	0.44
28:Z3:739:PHE:O	28:Z3:743:ASN:N	2.36	0.44
28:Z4:247:ASP:O	28:Z4:251:PHE:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:490:VAL:HG22	28:Z4:590:GLN:HG3	1.98	0.44
30:b2:156:VAL:HG21	30:b2:214:TRP:CH2	2.51	0.44
1:A1:834:GLU:CA	6:D3:302:PRO:CB	2.95	0.44
1:A1:870:HIS:CB	6:D3:279:HIS:O	2.57	0.44
2:A2:1122:LEU:N	3:A5:132:ASP:HB2	2.02	0.44
1:A3:1099:GLN:NE2	11:I2:1421:ARG:HD2	2.33	0.44
2:A4:948:ALA:O	2:A4:952:ARG:HG3	2.17	0.44
2:A4:1128:ASP:HB3	3:A6:140:ALA:HB3	1.57	0.44
3:A5:943:ASP:OD2	3:A5:945:ARG:NE	2.43	0.44
3:A5:1365:VAL:HG21	28:Z2:838:GLN:HA	1.84	0.44
3:A5:1387:ILE:HD13	28:Z2:830:LEU:CB	2.47	0.44
3:A6:164:LEU:O	5:C4:743:LEU:CD2	2.65	0.44
3:A6:1325:MSE:C	28:Z4:910:GLN:O	2.60	0.44
3:A6:1327:VAL:HB	28:Z4:910:GLN:CA	2.47	0.44
6:D6:650:VAL:HB	6:D6:651:PRO:HD3	1.99	0.44
6:D7:650:VAL:HB	6:D7:651:PRO:HD3	1.99	0.44
8:F1:1262:HIS:HA	17:O2:262:ASP:HB2	1.46	0.44
8:F2:511:ALA:O	8:F2:1008:TYR:N	2.43	0.44
11:I1:899:LEU:HD21	17:O1:231:ASP:OD1	2.17	0.44
11:I1:922:ASP:CG	15:M1:589:GLY:HA2	2.42	0.44
11:I1:956:ILE:CA	20:R1:166:LEU:CD2	2.76	0.44
11:I1:1049:LEU:HB3	17:O1:291:ASP:CB	2.42	0.44
11:I1:1606:GLU:O	11:I2:1735:PHE:HD2	1.95	0.44
11:I2:656:MET:O	11:I2:659:LYS:NZ	2.45	0.44
11:I2:945:LEU:HD21	17:O3:258:GLU:HB3	1.23	0.44
11:I2:955:LYS:HB2	16:N3:403:VAL:HG21	1.98	0.44
11:I2:980:ILE:CD1	15:M3:622:VAL:HG21	2.33	0.44
11:I2:1035:GLN:O	16:N3:441:PHE:CZ	2.70	0.44
11:I2:1039:ALA:HB2	20:R3:169:GLY:C	2.42	0.44
11:I2:1052:LEU:CD2	17:O3:283:ALA:HB1	2.44	0.44
11:I2:1067:PHE:CE1	16:N3:429:GLU:O	2.67	0.44
11:I3:1276:GLN:HB2	26:X1:522:MET:CE	2.48	0.44
11:I3:1333:THR:N	11:I3:1334:PRO:CD	2.81	0.44
11:I4:1276:GLN:CB	26:X3:522:MET:HE2	2.46	0.44
17:O2:98:TYR:HD2	17:O2:125:ALA:HB2	1.83	0.44
17:O3:102:LYS:HD3	18:P3:322:LYS:HZ3	1.81	0.44
21:S4:1143:VAL:HA	21:S4:1146:ALA:CB	2.41	0.44
22:T4:814:LYS:HB3	22:T4:814:LYS:HE2	1.79	0.44
23:U4:314:ILE:HD12	24:V4:309:LYS:HE3	1.98	0.44
24:V1:391:CYS:O	24:V1:395:ILE:HD11	2.17	0.44
24:V2:394:GLN:HG2	24:V2:397:GLU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:173:ILE:HD11	25:W4:43:HIS:HD2	1.82	0.44
24:V4:304:VAL:HG13	24:V4:323:ILE:HG22	1.97	0.44
24:V4:375:GLU:C	24:V4:377:GLU:H	2.24	0.44
25:W4:18:ASP:OD1	25:W4:18:ASP:N	2.46	0.44
26:X1:202:SER:HA	26:X1:297:LYS:O	2.18	0.44
26:X3:522:MET:HE1	26:X3:538:ILE:HD12	1.98	0.44
26:X4:141:ASN:C	26:X4:145:ASN:ND2	2.74	0.44
26:X4:285:VAL:O	26:X4:289:ILE:HG13	2.18	0.44
27:Y1:124:LYS:HG3	27:Y1:138:ASP:OD1	2.17	0.44
27:Y2:31:GLN:OE1	27:Y2:52:ARG:NH1	2.50	0.44
28:Z1:401:THR:C	30:b1:254:SER:HG	2.13	0.44
28:Z1:555:LYS:HB2	30:b1:233:TRP:CD2	2.53	0.44
28:Z2:534:ASP:CB	30:b2:183:LEU:N	2.33	0.44
28:Z2:549:LYS:CB	30:b2:182:PRO:CD	2.92	0.44
28:Z3:557:CYS:CA	30:b3:210:ARG:CA	2.60	0.44
28:Z4:658:HIS:HA	28:Z4:661:GLN:OE1	2.18	0.44
30:b1:53:SER:O	30:b1:384:ARG:HD3	2.17	0.44
30:b2:302:ASN:O	30:b2:303:LEU:HD23	2.17	0.44
1:A1:939:LYS:N	1:A1:940:PRO:HD3	2.32	0.44
1:A1:1221:ILE:CG2	2:A2:645:PHE:N	2.37	0.44
2:A2:867:GLU:OE1	6:D1:593:ARG:NH2	2.50	0.44
2:A2:981:PRO:CG	6:D1:504:LYS:H	2.28	0.44
2:A2:1134:GLU:H	3:A5:146:LYS:CA	2.09	0.44
2:A2:1135:ARG:N	3:A5:146:LYS:O	2.50	0.44
2:A2:1249:PHE:N	2:A2:1250:PRO:CD	2.81	0.44
1:A3:1017:THR:CG2	6:D3:819:ASN:CG	2.90	0.44
1:A3:1099:GLN:CD	11:I2:1416:GLY:N	2.75	0.44
1:A3:1200:ARG:HB3	2:A4:731:ILE:H	1.06	0.44
2:A4:864:ARG:CG	6:D3:609:ILE:H	2.31	0.44
2:A4:871:ASN:O	6:D3:565:MET:O	2.29	0.44
2:A4:872:ALA:HB1	6:D3:565:MET:HE3	0.45	0.44
2:A4:983:LEU:HD13	6:D3:497:PHE:HE2	1.74	0.44
2:A4:1154:PHE:N	3:A6:175:GLU:HB2	2.32	0.44
2:A4:1249:PHE:N	2:A4:1250:PRO:CD	2.80	0.44
3:A5:222:ALA:CB	5:C2:739:MET:CA	2.57	0.44
3:A5:1033:GLN:HG3	11:I5:70:GLU:HA	0.84	0.44
3:A5:1310:ARG:NE	28:Z2:827:GLN:O	2.50	0.44
3:A6:153:ILE:CD1	5:C4:739:MET:CB	2.87	0.44
3:A6:1310:ARG:C	28:Z4:830:LEU:CB	2.84	0.44
3:A6:1326:TRP:CD1	28:Z4:913:ILE:C	2.96	0.44
6:D1:482:MET:SD	6:D1:482:MET:N	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:436:THR:HG23	6:D3:439:GLN:H	1.82	0.44
6:D4:192:TYR:OH	6:D4:498:GLU:OE1	2.33	0.44
6:D4:523:LEU:C	6:D4:523:LEU:HD12	2.42	0.44
6:D7:423:PHE:O	6:D7:424:ASP:C	2.60	0.44
8:F1:840:ARG:HG3	8:F1:841:PRO:HD2	1.98	0.44
11:I1:889:THR:H	17:O1:242:ARG:NH1	2.16	0.44
11:I2:849:LEU:HD12	17:O3:247:TRP:CE3	2.51	0.44
11:I2:1035:GLN:OE1	15:M3:622:VAL:O	2.35	0.44
11:I2:1050:SER:O	17:O3:290:TYR:CB	2.64	0.44
11:I5:271:ASP:OD1	11:I5:272:LYS:N	2.49	0.44
11:I5:1314:LEU:O	11:I5:1314:LEU:HD23	2.17	0.44
16:N2:284:PRO:HA	16:N2:287:VAL:HG12	1.98	0.44
21:S4:407:LEU:HD11	21:S4:417:ALA:HB1	2.00	0.44
23:U1:116:LEU:O	23:U1:119:ILE:HB	2.17	0.44
23:U1:222:VAL:O	24:V1:256:VAL:HG22	2.18	0.44
23:U3:222:VAL:O	24:V3:256:VAL:HG22	2.17	0.44
23:U4:82:LEU:HD23	23:U4:82:LEU:HA	1.87	0.44
23:U4:222:VAL:O	24:V4:256:VAL:HG22	2.18	0.44
23:U4:385:LEU:O	23:U4:389:VAL:HG23	2.18	0.44
24:V1:393:GLY:O	24:V1:394:GLN:HB2	2.17	0.44
24:V2:375:GLU:C	24:V2:377:GLU:H	2.24	0.44
24:V3:394:GLN:HG2	24:V3:397:GLU:HB2	2.00	0.44
24:V4:391:CYS:O	24:V4:395:ILE:HD11	2.18	0.44
25:W2:52:HIS:CE1	25:W2:80:LEU:HD12	2.53	0.44
26:X1:141:ASN:N	26:X1:141:ASN:HD22	2.16	0.44
26:X1:152:LEU:CD2	26:X1:182:LEU:HB3	2.43	0.44
26:X2:453:ASP:OD1	26:X2:499:ALA:HB1	2.17	0.44
28:Z1:438:GLU:HG3	30:b1:333:HIS:HE1	1.77	0.44
28:Z3:563:GLU:OE2	30:b3:303:LEU:HD23	2.18	0.44
28:Z4:531:LYS:HD3	30:b4:183:LEU:CB	1.97	0.44
28:Z4:534:ASP:HA	28:Z4:537:THR:OG1	2.18	0.44
28:Z4:552:ASP:O	30:b4:233:TRP:CD2	2.64	0.44
28:Z4:555:LYS:HB2	30:b4:233:TRP:CD2	2.53	0.44
30:b3:322:HIS:HA	30:b3:323:PRO:HD3	1.84	0.44
30:b4:279:ARG:NH1	30:b4:327:ASP:OD1	2.43	0.44
30:b4:302:ASN:O	30:b4:303:LEU:HD23	2.17	0.44
2:A2:857:LYS:O	6:D1:606:LYS:CE	2.66	0.44
2:A2:873:PRO:C	6:D1:563:GLU:CG	2.84	0.44
2:A2:1023:ILE:CG2	2:A2:1025:SER:HB3	2.47	0.44
2:A2:1164:TYR:HA	4:B5:342:ARG:CG	2.48	0.44
2:A2:1167:CYS:C	4:B5:342:ARG:HH12	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:N	2:A4:731:ILE:CD1	2.78	0.44
2:A4:231:SER:CB	6:D3:709:ARG:HH22	2.19	0.44
2:A4:241:VAL:HG11	2:A4:287:LYS:HB3	1.98	0.44
2:A4:826:ASN:HB3	6:D3:632:ALA:O	2.18	0.44
2:A4:866:SER:C	6:D3:605:THR:CG2	2.84	0.44
2:A4:908:LEU:HD22	6:D3:566:PHE:CE2	2.52	0.44
2:A4:969:ASP:O	6:D3:192:TYR:CE1	2.68	0.44
2:A4:975:GLU:N	6:D3:496:LEU:HA	2.32	0.44
3:A6:221:SER:CA	5:C4:738:ASP:CG	2.77	0.44
3:A6:1160:GLN:HE22	5:C6:740:ARG:HD2	1.76	0.44
3:A6:1376:LEU:CA	28:Z4:814:THR:C	2.76	0.44
3:A6:1387:ILE:C	28:Z4:866:GLU:H	2.23	0.44
6:D2:482:MET:SD	6:D2:482:MET:N	2.90	0.44
6:D5:646:LEU:HD22	6:D5:696:ILE:HD11	1.98	0.44
6:D6:423:PHE:O	6:D6:424:ASP:C	2.60	0.44
6:D6:587:LEU:HD13	6:D6:631:LEU:HA	1.99	0.44
11:I1:873:ILE:CA	17:O1:251:ILE:HG23	2.47	0.44
11:I1:878:GLN:N	17:O1:252:VAL:CA	2.79	0.44
11:I1:1041:GLN:HB2	15:M1:620:VAL:CG2	2.07	0.44
11:I1:1041:GLN:CG	15:M1:616:LEU:CG	2.65	0.44
11:I1:1361:ALA:O	11:I1:1365:ALA:N	2.50	0.44
11:I1:1663:LYS:HD3	11:I2:1662:ARG:C	2.42	0.44
11:I2:932:VAL:HG13	15:M3:612:PRO:CB	2.47	0.44
11:I2:1314:LEU:O	11:I2:1314:LEU:HD23	2.17	0.44
11:I3:660:THR:OG1	11:I3:661:HIS:N	2.51	0.44
11:I3:844:LYS:HZ3	29:a2:351:LEU:HD11	1.82	0.44
11:I3:1218:ASP:O	11:I3:1221:ASN:ND2	2.49	0.44
11:I3:1277:LEU:HG	26:X1:522:MET:HB2	1.98	0.44
11:I3:1361:ALA:O	11:I3:1365:ALA:N	2.50	0.44
11:I4:660:THR:OG1	11:I4:661:HIS:N	2.51	0.44
16:N2:433:GLU:OE2	20:R2:174:ARG:NH2	2.51	0.44
21:S1:1020:LEU:H	21:S1:1020:LEU:CD2	2.31	0.44
21:S2:407:LEU:HD11	21:S2:417:ALA:HB1	2.00	0.44
22:T1:891:VAL:O	22:T1:891:VAL:HG12	2.17	0.44
22:T2:828:TRP:O	22:T2:830:VAL:HG23	2.16	0.44
22:T2:887:LYS:HB3	22:T2:890:LEU:HD12	1.98	0.44
22:T4:822:LEU:HD22	22:T4:886:HIS:CE1	2.52	0.44
23:U4:109:LEU:HD23	23:U4:298:ILE:HG13	2.00	0.44
24:V1:187:ASP:OD1	24:V1:187:ASP:C	2.60	0.44
24:V3:375:GLU:C	24:V3:377:GLU:H	2.24	0.44
24:V3:526:HIS:C	24:V3:528:LEU:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:263:LYS:HD3	24:V4:263:LYS:HA	1.75	0.44
25:W1:257:LEU:HA	25:W1:273:GLY:HA2	1.98	0.44
25:W3:63:HIS:CD2	25:W3:64:PRO:HD2	2.53	0.44
25:W3:273:GLY:C	25:W3:275:ASP:H	2.25	0.44
26:X4:141:ASN:N	26:X4:141:ASN:HD22	2.16	0.44
27:Y3:119:ALA:C	27:Y3:121:LEU:H	2.25	0.44
28:Z2:410:ASN:HD22	30:b2:252:ALA:CA	2.14	0.44
28:Z2:534:ASP:N	30:b2:164:CYS:HB2	2.23	0.44
28:Z2:561:GLN:HG3	30:b2:236:THR:C	2.40	0.44
28:Z3:436:HIS:NE2	28:Z3:438:GLU:HB2	2.31	0.44
28:Z3:522:ASN:HB2	30:b3:240:LEU:HB3	1.91	0.44
30:b1:243:VAL:O	30:b1:245:THR:OG1	2.35	0.44
30:b1:279:ARG:NH1	30:b1:327:ASP:OD1	2.43	0.44
30:b2:11:PRO:HB2	30:b2:14:VAL:CG2	2.47	0.44
30:b2:69:PRO:HD2	30:b2:107:GLN:HB2	2.00	0.44
2:A2:867:GLU:CG	6:D1:605:THR:OG1	2.65	0.44
2:A2:870:HIS:HB3	6:D1:548:LEU:HD23	1.99	0.44
2:A2:965:LYS:HE2	6:D1:197:VAL:CA	2.14	0.44
2:A2:968:SER:O	6:D1:202:GLN:HA	2.17	0.44
2:A2:1342:SER:OG	2:A2:1343:GLY:N	2.50	0.44
2:A4:780:GLU:HB3	6:D3:679:ILE:HD11	1.52	0.44
2:A4:864:ARG:HB2	6:D3:607:PRO:CG	2.24	0.44
3:A5:165:PHE:O	5:C2:743:LEU:HA	2.07	0.44
3:A5:1055:ARG:HH12	11:I5:3:ASP:HA	1.82	0.44
3:A6:159:SER:HB2	5:C4:743:LEU:O	2.17	0.44
3:A6:861:GLN:HB2	3:A6:882:SER:HB3	1.99	0.44
6:D4:482:MET:SD	6:D4:482:MET:N	2.90	0.44
6:D6:523:LEU:C	6:D6:523:LEU:HD12	2.42	0.44
8:F2:1643:CYS:SG	8:F2:1644:ASP:N	2.90	0.44
9:G1:258:LYS:H	17:O2:252:VAL:C	2.24	0.44
11:I1:660:THR:OG1	11:I1:661:HIS:N	2.51	0.44
11:I1:841:PHE:CZ	15:M1:588:MET:CE	2.95	0.44
11:I1:873:ILE:CG2	17:O1:254:ARG:C	2.87	0.44
11:I1:980:ILE:HD11	20:R1:147:LEU:HA	2.00	0.44
11:I1:1002:ALA:O	16:N1:413:VAL:O	2.35	0.44
11:I1:1021:ILE:HG13	16:N1:410:MET:H	1.83	0.44
11:I1:1048:GLU:CA	20:R1:143:PHE:CE1	2.95	0.44
11:I1:1314:LEU:O	11:I1:1314:LEU:HD23	2.17	0.44
11:I2:877:ILE:O	17:O3:249:ARG:C	2.59	0.44
11:I2:925:LEU:HD23	20:R3:164:PRO:O	2.18	0.44
11:I2:978:LYS:CG	20:R3:151:LYS:CD	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:981:VAL:CG1	20:R3:147:LEU:HG	2.48	0.44
11:I2:999:SER:CB	17:O3:264:ILE:CG2	2.75	0.44
11:I2:1045:PHE:C	17:O3:280:GLU:CB	2.90	0.44
11:I2:1361:ALA:O	11:I2:1365:ALA:N	2.50	0.44
11:I4:1270:LYS:HB3	26:X3:530:ARG:N	2.19	0.44
11:I4:1275:SER:H	26:X3:525:ILE:N	2.16	0.44
16:N4:433:GLU:OE2	20:R4:174:ARG:NH2	2.51	0.44
17:O3:98:TYR:HD2	17:O3:125:ALA:HB2	1.83	0.44
17:O3:156:ILE:CG2	17:O3:157:THR:N	2.81	0.44
21:S1:975:LYS:HD3	22:T1:882:SER:HB2	1.98	0.44
21:S3:946:LEU:HD11	22:T3:898:ARG:HG2	1.99	0.44
21:S4:946:LEU:HD11	22:T4:898:ARG:HG2	1.99	0.44
21:S4:987:MET:HE1	21:S4:991:LYS:HE2	2.00	0.44
22:T1:822:LEU:HD22	22:T1:886:HIS:CE1	2.52	0.44
22:T4:917:ASP:HB2	22:T4:918:PRO:CD	2.47	0.44
23:U2:382:LYS:HA	23:U2:383:PRO:HD3	1.77	0.44
24:V4:394:GLN:HG2	24:V4:397:GLU:HB2	2.00	0.44
24:V4:513:MET:HG2	24:V4:541:ALA:HB2	1.99	0.44
26:X2:202:SER:HA	26:X2:297:LYS:O	2.18	0.44
26:X2:533:GLU:H	26:X2:533:GLU:HG2	1.45	0.44
26:X3:202:SER:HA	26:X3:297:LYS:O	2.18	0.44
26:X3:533:GLU:H	26:X3:533:GLU:HG2	1.45	0.44
26:X4:202:SER:HA	26:X4:297:LYS:O	2.18	0.44
26:X4:453:ASP:OD1	26:X4:499:ALA:HB1	2.17	0.44
26:X4:533:GLU:H	26:X4:533:GLU:HG2	1.45	0.44
28:Z1:551:THR:HG22	30:b1:233:TRP:HZ3	0.63	0.44
28:Z1:668:TYR:CZ	28:Z1:672:LYS:HE3	2.53	0.44
28:Z3:499:SER:O	28:Z3:500:GLU:C	2.60	0.44
28:Z3:526:ARG:HD2	30:b3:240:LEU:HD22	2.00	0.44
28:Z4:551:THR:HG22	30:b4:233:TRP:HZ3	0.63	0.44
28:Z4:556:ASN:N	30:b4:212:PHE:CB	2.73	0.44
29:a2:214[B]:THR:HG21	29:a2:252[B]:MET:HE2	1.98	0.44
30:b4:21:TRP:CZ2	30:b4:373:ALA:HB2	2.52	0.44
1:A3:1224:PRO:CA	2:A4:724:LEU:HA	2.45	0.44
2:A4:1131:ILE:HD12	3:A6:160:ILE:CG1	2.47	0.44
2:A4:1160:GLN:O	3:A6:180:GLU:CD	2.60	0.44
3:A5:1091:VAL:C	11:I5:37:GLU:N	2.76	0.44
3:A5:1312:ARG:CZ	28:Z2:832:PHE:O	2.63	0.44
6:D2:423:PHE:O	6:D2:424:ASP:C	2.60	0.44
6:D3:646:LEU:HD22	6:D3:696:ILE:HD11	1.98	0.44
6:D3:650:VAL:HB	6:D3:651:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D5:587:LEU:HD13	6:D5:631:LEU:HA	1.99	0.44
6:D6:646:LEU:HD22	6:D6:696:ILE:HD11	1.98	0.44
11:I1:840:LEU:O	15:M1:591:ASP:OD2	2.36	0.44
11:I1:979:ALA:HB3	15:M1:621:ARG:HG2	1.23	0.44
11:I1:1065:SER:HB3	16:N1:431:VAL:HG23	2.00	0.44
11:I2:880:MET:O	17:O3:246:LEU:C	2.53	0.44
11:I2:951:LYS:HG3	17:O3:253:LEU:HD13	1.99	0.44
11:I2:1039:ALA:O	20:R3:170:LEU:CD1	2.62	0.44
11:I2:1104:LEU:CA	16:N3:433:GLU:O	2.58	0.44
11:I4:1333:THR:N	11:I4:1334:PRO:CD	2.81	0.44
11:I5:1333:THR:N	11:I5:1334:PRO:CD	2.80	0.44
21:S1:404:LEU:O	21:S1:405:CYS:HB2	2.18	0.44
21:S1:1149:GLU:C	21:S1:1151:TYR:H	2.25	0.44
21:S3:404:LEU:O	21:S3:405:CYS:HB2	2.18	0.44
21:S4:626:SER:O	21:S4:627:PHE:C	2.60	0.44
21:S4:1052:LEU:HA	21:S4:1052:LEU:HD13	1.80	0.44
23:U1:106:GLU:O	23:U1:110:MET:HG2	2.18	0.44
23:U1:385:LEU:O	23:U1:389:VAL:HG23	2.18	0.44
23:U2:433:ALA:O	23:U2:435:PHE:N	2.44	0.44
24:V2:513:MET:HG2	24:V2:541:ALA:HB2	1.99	0.44
25:W4:52:HIS:CE1	25:W4:80:LEU:HD12	2.53	0.44
26:X2:198:GLU:HG2	26:X2:300:SER:CB	2.47	0.44
26:X2:268:SER:HB2	26:X2:269:ASP:OD1	2.17	0.44
26:X3:141:ASN:N	26:X3:141:ASN:HD22	2.16	0.44
27:Y1:7:GLY:C	27:Y1:34:LYS:HE3	2.42	0.44
27:Y4:7:GLY:C	27:Y4:34:LYS:HE3	2.42	0.44
27:Y4:124:LYS:HG3	27:Y4:138:ASP:OD1	2.17	0.44
27:Y4:296:LEU:HD21	27:Y4:299:GLU:HG3	1.98	0.44
28:Z1:521:SER:O	30:b1:238:ASN:CB	2.65	0.44
28:Z1:561:GLN:CG	30:b1:237:LEU:H	2.28	0.44
28:Z1:563:GLU:OE2	30:b1:303:LEU:HD23	2.18	0.44
28:Z2:534:ASP:HA	28:Z2:537:THR:OG1	2.18	0.44
28:Z3:643:ASP:OD2	28:Z3:646:ILE:HG13	2.17	0.44
28:Z4:524:VAL:CG1	30:b4:236:THR:CA	2.84	0.44
30:b3:192:PHE:CE1	30:b3:200:LEU:HD22	2.52	0.44
1:A1:1202:GLU:C	2:A2:732:GLN:HA	2.42	0.44
2:A2:974:PRO:HD3	6:D1:205:LEU:CB	2.47	0.44
2:A2:1132:PRO:C	3:A5:138:LEU:HD23	2.42	0.44
2:A2:1137:ALA:HB1	3:A5:564:ASN:HB2	2.00	0.44
1:A3:1048:ARG:HH21	6:D3:815:GLU:HG2	1.83	0.44
1:A3:1220:PRO:C	2:A4:645:PHE:CD1	2.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:172:PRO:CB	6:D3:781:ARG:CG	2.84	0.44
2:A4:868:GLN:CG	6:D3:608:ILE:CG2	2.86	0.44
3:A5:1020:ILE:C	11:I5:95:LYS:HZ3	1.83	0.44
3:A5:1356:SER:O	28:Z2:876:LEU:O	2.35	0.44
3:A5:1375:THR:HG23	28:Z2:824:PHE:CB	2.47	0.44
3:A6:1392:ARG:HH12	28:Z4:862:GLN:CB	2.30	0.44
6:D2:445:LEU:HD12	6:D2:446:GLU:N	2.33	0.44
6:D5:382:ASN:OD1	6:D5:383:THR:N	2.50	0.44
6:D6:445:LEU:HD12	6:D6:446:GLU:N	2.33	0.44
8:F1:1262:HIS:NE2	17:O2:259:ASP:OD1	2.48	0.44
11:I1:881:ILE:CD1	17:O1:253:LEU:HG	2.46	0.44
11:I1:962:ILE:HA	20:R1:164:PRO:O	2.15	0.44
11:I1:983:LEU:O	15:M1:617:THR:HG22	2.07	0.44
11:I1:1608:SER:O	12:J2:299:GLY:N	2.50	0.44
11:I2:849:LEU:HD12	17:O3:247:TRP:CZ3	2.53	0.44
11:I2:877:ILE:CB	17:O3:253:LEU:N	2.71	0.44
11:I2:879:VAL:HB	17:O3:251:ILE:HB	1.98	0.44
11:I2:922:ASP:CG	15:M3:589:GLY:C	2.86	0.44
11:I2:924:ILE:CG1	15:M3:597:LYS:H	2.25	0.44
11:I2:953:LEU:HA	15:M3:603:SER:HB3	0.44	0.44
11:I2:1051:LYS:CG	17:O3:284:LYS:C	2.84	0.44
11:I4:1116:ASP:OD2	12:J4:241:THR:HG21	2.17	0.44
11:I4:1370:VAL:CG2	12:J4:259:THR:HG21	2.41	0.44
17:O1:98:TYR:HD2	17:O1:125:ALA:HB2	1.83	0.44
17:O1:156:ILE:CG2	17:O1:157:THR:N	2.81	0.44
17:O3:147:ALA:O	18:P3:328:PRO:CB	2.64	0.44
19:Q4:204[B]:MSE:HE2	19:Q4:211:MSE:HB2	2.00	0.44
21:S2:615:ILE:O	21:S2:620:LEU:CB	2.66	0.44
21:S3:615:ILE:O	21:S3:620:LEU:CB	2.66	0.44
21:S4:619:GLY:HA2	21:S4:620:LEU:CB	2.47	0.44
23:U2:143:LYS:HG3	23:U2:144:TRP:N	2.32	0.44
23:U2:385:LEU:O	23:U2:389:VAL:HG23	2.18	0.44
23:U3:109:LEU:HD23	23:U3:298:ILE:HG13	2.00	0.44
24:V3:391:CYS:O	24:V3:395:ILE:HD11	2.17	0.44
24:V4:187:ASP:OD1	24:V4:187:ASP:C	2.60	0.44
24:V4:526:HIS:C	24:V4:528:LEU:H	2.26	0.44
25:W3:52:HIS:CE1	25:W3:80:LEU:HD12	2.53	0.44
26:X2:58:ILE:HG22	26:X2:59:GLU:N	2.33	0.44
27:Y1:31:GLN:OE1	27:Y1:52:ARG:NH1	2.50	0.44
28:Z2:218:SER:OG	28:Z2:219:ASP:N	2.50	0.44
28:Z2:557:CYS:CA	30:b2:210:ARG:CA	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:977:VAL:O	6:D1:493:ALA:HA	2.13	0.44
2:A2:984:ALA:HB2	6:D1:553:PHE:CE2	2.53	0.44
2:A2:989:MSE:SE	6:D1:500:LYS:CD	2.93	0.44
2:A2:1132:PRO:HA	3:A5:160:ILE:HA	1.15	0.44
2:A2:1159:ASP:H	3:A5:175:GLU:CG	2.26	0.44
1:A3:1017:THR:CG2	6:D3:819:ASN:CB	2.57	0.44
1:A3:1332:ARG:HH21	6:D3:681:ALA:HB1	1.83	0.44
2:A4:203:ILE:HD11	4:B4:352:ALA:HA	2.00	0.44
2:A4:827:ILE:CG2	2:A4:863:GLN:HB2	2.47	0.44
2:A4:973:GLU:HG3	6:D3:498:GLU:HG3	2.00	0.44
2:A4:1054:SER:HB2	6:D4:762:ARG:HG2	1.99	0.44
3:A5:861:GLN:HB2	3:A5:882:SER:HB3	1.99	0.44
3:A5:995:VAL:HG12	11:I5:58:ALA:HB2	1.99	0.44
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB3	1.92	0.44
3:A6:889:VAL:HB	3:A6:892:SER:OG	2.18	0.44
6:D1:749:LEU:CD2	6:D1:792:LEU:HD22	2.48	0.44
6:D3:587:LEU:HD13	6:D3:631:LEU:HA	1.99	0.44
6:D4:650:VAL:HB	6:D4:651:PRO:HD3	1.99	0.44
6:D5:445:LEU:HD12	6:D5:446:GLU:N	2.33	0.44
6:D7:483:GLU:HB2	11:I3:191:GLU:OE2	2.17	0.44
8:F1:1088:GLU:HB3	17:O2:245:GLU:OE1	2.18	0.44
9:G1:263:MET:HE1	16:N2:407:ALA:C	2.43	0.44
11:I1:271:ASP:OD1	11:I1:272:LYS:N	2.49	0.44
11:I1:932:VAL:N	15:M1:604:ASN:HB2	2.33	0.44
11:I1:947:LEU:CD2	17:O1:256:TYR:OH	2.66	0.44
11:I1:952:LEU:HD11	17:O1:250:LEU:HD13	0.87	0.44
11:I1:995:SER:HA	17:O1:267:ALA:HB3	1.99	0.44
11:I1:1054:ILE:O	17:O1:281:ALA:N	2.51	0.44
11:I1:1677:LYS:HZ1	11:I2:1543:LEU:HD13	1.79	0.44
11:I2:660:THR:OG1	11:I2:661:HIS:N	2.51	0.44
11:I2:924:ILE:HD11	15:M3:599:ILE:HD12	1.99	0.44
11:I2:927:HIS:HB2	15:M3:597:LYS:CB	2.41	0.44
11:I2:988:GLU:CD	15:M3:612:PRO:C	2.71	0.44
11:I2:1025:LEU:CD2	20:R3:170:LEU:HD12	2.48	0.44
11:I2:1034:ASP:H	20:R3:177:LEU:CD2	2.31	0.44
11:I4:1274:HIS:HD1	26:X3:529:TRP:CB	2.07	0.44
17:O4:156:ILE:CG2	17:O4:157:THR:N	2.81	0.44
21:S1:1120:PRO:CD	21:S1:1155:GLN:HE22	2.19	0.44
21:S4:953:LEU:HD23	21:S4:953:LEU:HA	1.87	0.44
22:T3:685:ARG:NH2	22:T3:716:PRO:HG2	2.32	0.44
23:U2:157:ASP:OD1	23:U2:163:ARG:NH2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:425:LEU:HD23	23:U2:425:LEU:HA	1.90	0.44
23:U4:314:ILE:HD12	24:V4:309:LYS:CE	2.48	0.44
24:V1:311:ALA:HB1	24:V1:316:ASN:O	2.18	0.44
24:V2:187:ASP:OD1	24:V2:187:ASP:C	2.60	0.44
25:W2:63:HIS:CD2	25:W2:64:PRO:HD2	2.53	0.44
26:X1:285:VAL:O	26:X1:289:ILE:HG13	2.18	0.44
26:X2:221:GLU:HA	26:X2:224:ILE:HG13	2.00	0.44
26:X2:268:SER:O	26:X2:272:PRO:HG2	2.16	0.44
26:X3:285:VAL:O	26:X3:289:ILE:HG13	2.18	0.44
27:Y2:119:ALA:C	27:Y2:121:LEU:H	2.25	0.44
27:Y4:31:GLN:OE1	27:Y4:52:ARG:NH1	2.50	0.44
28:Z1:232:ARG:HE	28:Z1:249:THR:HG1	1.64	0.44
28:Z1:522:ASN:ND2	30:b1:241:PRO:HA	2.33	0.44
28:Z2:534:ASP:H	30:b2:164:CYS:HB3	1.77	0.44
28:Z3:401:THR:CG2	30:b3:253:SER:C	2.78	0.44
28:Z3:544:MET:HE2	30:b3:180:GLY:HA3	1.89	0.44
28:Z3:668:TYR:CZ	28:Z3:672:LYS:HE3	2.53	0.44
1:A1:1220:PRO:C	2:A2:646:ILE:CA	2.91	0.43
1:A1:1333:ARG:CA	6:D1:637:LYS:HD3	2.47	0.43
2:A2:203:ILE:HD11	4:B2:352:ALA:HA	2.00	0.43
2:A2:351:ILE:HD11	2:A2:424:PRO:HB2	2.00	0.43
2:A2:980:ARG:CZ	6:D1:503:LEU:HB3	2.39	0.43
2:A2:983:LEU:N	6:D1:528:PHE:CZ	2.85	0.43
2:A2:1155:ASN:C	3:A5:175:GLU:N	2.68	0.43
2:A4:351:ILE:HD11	2:A4:424:PRO:HB2	2.00	0.43
2:A4:870:HIS:CB	6:D3:566:PHE:CD1	2.81	0.43
2:A4:973:GLU:CD	6:D3:192:TYR:CE2	2.96	0.43
2:A4:1125:LEU:HD13	3:A6:134:VAL:HA	1.62	0.43
3:A5:223:THR:O	5:C2:736:ASN:OD1	2.35	0.43
3:A5:1046:LEU:CD1	11:I5:69:GLY:C	2.91	0.43
3:A6:159:SER:OG	5:C4:745:SER:O	2.29	0.43
3:A6:188:ALA:C	5:C4:746:PRO:O	2.61	0.43
6:D5:749:LEU:CD2	6:D5:792:LEU:HD22	2.48	0.43
9:G1:263:MET:CA	17:O2:256:TYR:CZ	2.98	0.43
9:G2:255:LEU:CA	17:O4:262:ASP:OD1	2.65	0.43
11:I1:846:ILE:HG12	15:M1:591:ASP:CG	2.43	0.43
11:I1:928:LEU:CG	20:R1:155:GLU:HB2	2.48	0.43
11:I1:957:SER:HB2	20:R1:168:LEU:CA	2.48	0.43
11:I1:1057:LYS:N	17:O1:278:GLU:HB2	2.32	0.43
11:I1:1108:PRO:CG	16:N1:444:SER:H	2.30	0.43
11:I1:1109:LEU:CB	16:N1:441:PHE:CA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:HD21	15:M3:595:MET:CG	2.47	0.43
11:I2:900:ARG:C	17:O3:232:LYS:HE2	2.42	0.43
11:I2:1028:CYS:HA	20:R3:172:ASP:HB2	1.96	0.43
11:I2:1041:GLN:O	17:O3:275:LEU:HD11	2.17	0.43
11:I3:1274:HIS:O	26:X1:534:ILE:CG2	2.64	0.43
11:I4:1182:GLN:NE2	12:J4:245:GLU:CB	2.79	0.43
16:N3:433:GLU:OE2	20:R3:174:ARG:NH2	2.51	0.43
17:O2:99:LEU:O	17:O2:137:VAL:N	2.51	0.43
21:S1:987:MET:HE1	21:S1:991:LYS:HE2	2.00	0.43
21:S2:987:MET:HE1	21:S2:991:LYS:HE2	2.00	0.43
22:T1:917:ASP:HB2	22:T1:918:PRO:CD	2.47	0.43
22:T2:891:VAL:O	22:T2:891:VAL:HG12	2.17	0.43
22:T4:781:THR:HG23	22:T4:783:THR:N	2.33	0.43
24:V1:400:LEU:HB3	24:V1:426:TYR:OH	2.18	0.43
24:V3:400:LEU:HB3	24:V3:426:TYR:OH	2.18	0.43
25:W1:273:GLY:C	25:W1:275:ASP:H	2.25	0.43
25:W3:18:ASP:OD1	25:W3:18:ASP:N	2.46	0.43
26:X1:58:ILE:HG22	26:X1:59:GLU:N	2.33	0.43
26:X1:97:ARG:NH2	26:X1:411:SER:O	2.50	0.43
27:Y1:107:SER:HA	27:Y1:135:ARG:HH21	1.83	0.43
27:Y3:131:ASP:OD2	27:Y3:135:ARG:NH2	2.51	0.43
28:Z1:352:ILE:HD13	28:Z1:471:ILE:HG12	1.99	0.43
28:Z3:561:GLN:CG	30:b3:237:LEU:H	2.28	0.43
30:b4:243:VAL:O	30:b4:245:THR:OG1	2.34	0.43
1:A1:199:PHE:HA	4:B1:353:LEU:HA	1.99	0.43
1:A1:1220:PRO:HB2	2:A2:731:ILE:HG13	1.99	0.43
2:A2:827:ILE:CG2	2:A2:863:GLN:HB2	2.47	0.43
2:A2:871:ASN:HB2	6:D1:571:SER:OG	2.09	0.43
2:A2:976:LEU:HB3	6:D1:496:LEU:CD2	1.84	0.43
2:A4:520:GLU:OE1	2:A4:521:ASN:ND2	2.50	0.43
2:A4:864:ARG:HG2	6:D3:609:ILE:H	1.83	0.43
2:A4:866:SER:OG	6:D3:603:SER:CA	2.65	0.43
2:A4:878:LEU:CD1	6:D3:608:ILE:N	2.81	0.43
2:A4:908:LEU:HD11	6:D3:602:THR:OG1	1.47	0.43
3:A5:1151:THR:CA	5:C5:733:LEU:HD13	2.40	0.43
3:A5:1310:ARG:O	28:Z2:830:LEU:C	2.60	0.43
3:A6:234:LEU:HD11	5:C4:740:ARG:HE	1.82	0.43
3:A6:943:ASP:OD2	3:A6:945:ARG:NE	2.43	0.43
3:A6:1413:SER:HA	28:Z4:963:LYS:N	2.33	0.43
6:D3:523:LEU:C	6:D3:523:LEU:HD12	2.42	0.43
6:D5:584:LEU:HD22	6:D5:609:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:134:ASP:OD2	8:F1:1056:ARG:NH2	2.51	0.43
9:G2:257:THR:CG2	17:O4:257:ALA:H	2.31	0.43
11:I1:849:LEU:CD1	17:O1:247:TRP:CG	3.00	0.43
11:I1:946:THR:N	17:O1:256:TYR:CG	2.82	0.43
11:I1:992:ILE:N	15:M1:608:LYS:HG2	2.06	0.43
11:I1:1020:ALA:HB3	16:N1:406:HIS:O	2.18	0.43
11:I1:1042:LEU:CD1	15:M1:607:SER:HB3	2.48	0.43
11:I2:271:ASP:OD1	11:I2:272:LYS:N	2.49	0.43
11:I2:797:LEU:CD2	17:O3:245:GLU:HA	2.49	0.43
11:I2:849:LEU:HD13	17:O3:247:TRP:CE3	2.53	0.43
11:I2:938:CYS:O	17:O3:264:ILE:HB	2.18	0.43
11:I2:1018:LYS:C	16:N3:409:ALA:C	2.85	0.43
11:I2:1031:ALA:HB2	20:R3:176:ARG:HG3	0.82	0.43
11:I2:1052:LEU:HB2	16:N3:438:LEU:CD1	2.48	0.43
11:I2:1110:SER:HA	16:N3:438:LEU:CD1	2.39	0.43
11:I3:714:THR:HA	29:a2:40[A]:GLU:HG2	1.99	0.43
11:I3:1119:ARG:HH12	12:J3:240:GLY:HA3	1.83	0.43
11:I4:480:ASP:OD1	11:I4:481:ALA:N	2.52	0.43
11:I4:1083:GLU:OE1	11:I4:1083:GLU:N	2.42	0.43
11:I4:1122:ASN:O	11:I4:1126:HIS:ND1	2.42	0.43
11:I5:480:ASP:OD1	11:I5:481:ALA:N	2.51	0.43
16:N3:284:PRO:HA	16:N3:287:VAL:HG12	1.98	0.43
17:O4:110:LEU:HD21	18:P4:320:GLN:N	2.32	0.43
17:O4:111:TYR:CZ	18:P4:321:ILE:CG1	3.02	0.43
18:P1:276:SER:C	18:P4:322:LYS:CD	2.84	0.43
21:S1:407:LEU:HD11	21:S1:417:ALA:HB1	2.00	0.43
21:S1:615:ILE:O	21:S1:620:LEU:CB	2.66	0.43
21:S1:619:GLY:HA2	21:S1:620:LEU:CB	2.47	0.43
21:S1:968:LYS:HE2	21:S1:968:LYS:HB3	1.65	0.43
21:S2:1078:LEU:HD21	21:S2:1097:LYS:HE3	2.00	0.43
21:S3:934:HIS:C	21:S3:934:HIS:CD2	2.94	0.43
21:S4:934:HIS:C	21:S4:934:HIS:CD2	2.94	0.43
22:T1:774:PRO:HG2	22:T1:792:GLU:HA	2.00	0.43
22:T2:822:LEU:HD21	22:T2:880:MET:HG3	2.01	0.43
22:T4:774:PRO:HG2	22:T4:792:GLU:HA	2.00	0.43
23:U3:106:GLU:O	23:U3:110:MET:HG2	2.18	0.43
24:V1:168:LYS:HE2	25:W1:45:LEU:HB2	2.01	0.43
24:V3:513:MET:HG2	24:V3:541:ALA:HB2	1.99	0.43
25:W2:63:HIS:HA	25:W2:64:PRO:HD3	1.82	0.43
26:X2:141:ASN:N	26:X2:141:ASN:HD22	2.16	0.43
26:X2:215:SER:HB2	26:X2:390:TRP:CZ2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y4:107:SER:HA	27:Y4:135:ARG:HH21	1.83	0.43
28:Z1:526:ARG:HD2	30:b1:240:LEU:HD22	2.00	0.43
28:Z1:534:ASP:H	30:b1:164:CYS:HB3	1.77	0.43
28:Z1:535:ILE:CD1	30:b1:182:PRO:CG	2.88	0.43
28:Z1:554:PHE:CA	30:b1:233:TRP:O	2.61	0.43
28:Z3:554:PHE:CA	30:b3:233:TRP:O	2.61	0.43
28:Z4:407:GLY:C	30:b4:251:ILE:CD1	2.78	0.43
28:Z4:668:TYR:CZ	28:Z4:672:LYS:HE3	2.53	0.43
29:a4:16:THR:HG22	29:a4:34:THR:HG22	1.99	0.43
30:b2:115:ILE:HB	30:b2:123:THR:HB	2.01	0.43
30:b3:11:PRO:HB2	30:b3:14:VAL:CG2	2.47	0.43
1:A3:1056:PHE:CD2	6:D3:808:ASN:N	2.85	0.43
1:A3:1194:HIS:O	2:A4:729:SER:OG	2.37	0.43
2:A4:235:TYR:CD1	4:B4:347:LEU:CB	2.76	0.43
2:A4:867:GLU:CG	6:D3:593:ARG:NH2	2.80	0.43
2:A4:970:PHE:CB	6:D3:498:GLU:HB3	2.45	0.43
2:A4:1094:ILE:CD1	6:D4:708:ASP:N	2.81	0.43
3:A5:1031:TYR:H	11:I5:67:LYS:CG	2.31	0.43
3:A5:1255:LEU:HB3	3:A5:1256:PRO:HD3	2.01	0.43
6:D2:650:VAL:HB	6:D2:651:PRO:HD3	1.99	0.43
6:D3:445:LEU:HD12	6:D3:446:GLU:N	2.33	0.43
6:D3:749:LEU:CD2	6:D3:792:LEU:HD22	2.48	0.43
6:D4:587:LEU:HD13	6:D4:631:LEU:HA	1.99	0.43
6:D4:649:VAL:HG12	6:D4:660:LYS:HD2	2.01	0.43
7:E3:94:ILE:HG23	7:E3:94:ILE:O	2.19	0.43
11:I1:800:PHE:CZ	17:O1:238:ALA:HB2	2.53	0.43
11:I1:873:ILE:CG2	17:O1:255:GLY:CA	2.93	0.43
11:I1:875:ARG:O	17:O1:248:SER:CA	2.66	0.43
11:I1:883:ALA:HB3	17:O1:246:LEU:C	2.39	0.43
11:I1:921:GLU:O	15:M1:592:LEU:C	2.61	0.43
11:I1:927:HIS:CD2	15:M1:594:LYS:O	2.71	0.43
11:I1:938:CYS:CA	15:M1:606:LEU:CD1	2.66	0.43
11:I1:1055:GLU:CB	17:O1:281:ALA:H	2.29	0.43
11:I1:1110:SER:CA	16:N1:437:VAL:C	2.41	0.43
11:I1:1738:TYR:C	11:I2:1603:ARG:HB3	2.42	0.43
11:I2:954:GLU:H	16:N3:403:VAL:HG22	1.68	0.43
11:I2:955:LYS:HG3	16:N3:403:VAL:HB	2.00	0.43
11:I2:977:ASN:H	20:R3:148:ALA:C	2.24	0.43
11:I2:980:ILE:O	15:M3:618:GLN:CG	2.32	0.43
11:I4:352:ASN:OD1	11:I4:353:LEU:N	2.52	0.43
17:O3:151:LEU:CG	18:P3:325:ILE:HG12	2.11	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:99:LEU:O	17:O4:137:VAL:N	2.51	0.43
21:S1:1119:LEU:HB2	21:S1:1155:GLN:CD	2.43	0.43
21:S3:987:MET:HE1	21:S3:991:LYS:HE2	2.00	0.43
21:S4:615:ILE:O	21:S4:620:LEU:CB	2.66	0.43
21:S4:1078:LEU:HD21	21:S4:1097:LYS:HE3	2.00	0.43
22:T1:885:ARG:HG3	22:T1:885:ARG:NH1	2.17	0.43
23:U2:81:LEU:HD13	23:U2:85:ARG:NH2	2.32	0.43
23:U4:390:THR:O	23:U4:394:ILE:HG12	2.19	0.43
25:W1:63:HIS:CD2	25:W1:64:PRO:HD2	2.53	0.43
25:W2:273:GLY:C	25:W2:275:ASP:H	2.25	0.43
26:X2:285:VAL:O	26:X2:289:ILE:HG13	2.18	0.43
26:X3:152:LEU:CD2	26:X3:182:LEU:HB3	2.43	0.43
26:X3:221:GLU:HA	26:X3:224:ILE:HG13	2.00	0.43
26:X4:58:ILE:HG22	26:X4:59:GLU:N	2.33	0.43
27:Y4:131:ASP:OD2	27:Y4:135:ARG:NH2	2.51	0.43
28:Z1:402:GLY:CA	30:b1:254:SER:HG	1.90	0.43
28:Z2:554:PHE:CE1	30:b2:233:TRP:O	2.67	0.43
28:Z2:563:GLU:OE2	30:b2:303:LEU:HD23	2.18	0.43
28:Z3:352:ILE:HD13	28:Z3:471:ILE:HG12	1.99	0.43
28:Z4:427:LEU:HD13	28:Z4:442:TYR:CE1	2.53	0.43
28:Z4:555:LYS:HA	30:b4:212:PHE:HA	1.89	0.43
29:a2:16:THR:HG22	29:a2:34:THR:HG22	1.99	0.43
30:b3:51:PRO:O	30:b3:53:SER:N	2.45	0.43
30:b3:160:VAL:HG11	30:b3:202:VAL:HG13	2.01	0.43
1:A1:1197:ALA:HB1	2:A2:728:LYS:CE	2.47	0.43
2:A2:871:ASN:N	6:D1:571:SER:N	2.62	0.43
2:A2:1019:ARG:NH2	6:D1:237:PRO:O	2.51	0.43
2:A4:825:ARG:HH11	6:D3:633:LYS:HG3	1.82	0.43
2:A4:868:GLN:HB2	6:D3:570:VAL:HG21	1.96	0.43
2:A4:872:ALA:N	2:A4:873:PRO:CD	2.81	0.43
3:A5:999:SER:CA	11:I5:62:GLU:CB	2.71	0.43
3:A5:1056:PHE:CZ	11:I5:38:GLN:HA	2.51	0.43
3:A5:1365:VAL:HG11	28:Z2:832:PHE:C	2.43	0.43
3:A6:159:SER:CB	5:C4:745:SER:O	2.65	0.43
6:D3:584:LEU:HD22	6:D3:609:ILE:HD11	2.00	0.43
6:D5:815:GLU:CD	6:D5:815:GLU:C	2.87	0.43
6:D7:445:LEU:HD12	6:D7:446:GLU:N	2.33	0.43
8:F1:1837:LYS:O	8:F1:1841:LEU:HD13	2.18	0.43
11:I1:842:ASN:CA	15:M1:587:GLU:HG3	2.39	0.43
11:I1:881:ILE:HG12	17:O1:249:ARG:NH2	2.33	0.43
11:I1:931:VAL:HG13	15:M1:604:ASN:CG	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:931:VAL:HG21	15:M1:604:ASN:CG	2.33	0.43
11:I1:950:LEU:N	16:N1:403:VAL:HG12	2.33	0.43
11:I2:881:ILE:HG22	17:O3:249:ARG:NE	2.32	0.43
11:I2:895:ARG:H	17:O3:239:GLN:HG3	1.78	0.43
11:I2:976:ARG:NH2	20:R3:143:PHE:HA	2.33	0.43
11:I2:977:ASN:CB	20:R3:146:LEU:O	2.67	0.43
11:I2:1031:ALA:HB2	20:R3:168:LEU:CD2	2.41	0.43
11:I3:1266:ALA:O	26:X1:528:GLU:CA	2.66	0.43
11:I4:775:ASP:OD1	29:a4:40[B]:GLU:CD	2.60	0.43
11:I4:1276:GLN:HA	26:X3:519:ILE:O	2.18	0.43
16:N1:284:PRO:HA	16:N1:287:VAL:HG12	1.98	0.43
17:O3:154:ARG:HD3	18:P3:324:LEU:HD11	2.00	0.43
21:S2:1069:LEU:C	21:S2:1071:LEU:N	2.76	0.43
22:T2:781:THR:HG23	22:T2:783:THR:N	2.33	0.43
23:U1:390:THR:O	23:U1:394:ILE:HG12	2.19	0.43
23:U3:81:LEU:HD12	23:U3:350:VAL:HG12	2.01	0.43
23:U3:159:ASP:OD2	24:V3:319:LEU:N	2.29	0.43
23:U4:23:LYS:HD2	23:U4:434:THR:HG21	2.01	0.43
25:W1:280:LEU:HB2	25:W1:292:ALA:O	2.19	0.43
25:W4:35:ILE:HB	25:W4:47:ASP:HB2	2.00	0.43
26:X3:58:ILE:HG22	26:X3:59:GLU:N	2.33	0.43
26:X3:335:PHE:O	26:X3:339:ILE:HG13	2.19	0.43
26:X4:215:SER:HB2	26:X4:390:TRP:CZ2	2.54	0.43
28:Z1:427:LEU:HD13	28:Z1:442:TYR:CE1	2.54	0.43
28:Z2:438:GLU:HB2	30:b2:333:HIS:CE1	2.48	0.43
28:Z2:658:HIS:HA	28:Z2:661:GLN:OE1	2.18	0.43
28:Z3:410:ASN:N	30:b3:251:ILE:HD11	2.32	0.43
28:Z3:524:VAL:H	30:b3:237:LEU:C	2.27	0.43
28:Z4:524:VAL:H	30:b4:237:LEU:C	2.27	0.43
1:A1:1017:THR:HG21	1:A1:1048:ARG:NH1	2.33	0.43
1:A1:1196:GLU:O	1:A1:1200:ARG:HD3	2.19	0.43
1:A1:1238:ILE:O	1:A1:1242:THR:N	2.42	0.43
2:A2:868:GLN:HE21	6:D1:608:ILE:HG13	1.26	0.43
2:A2:876:ARG:CD	6:D1:558:LYS:HB3	2.34	0.43
1:A3:1201:ARG:O	2:A4:732:GLN:CA	2.66	0.43
1:A3:1224:PRO:CB	2:A4:727:ASN:CB	2.96	0.43
2:A4:1138:GLU:HG3	3:A6:147:LEU:HD13	1.65	0.43
2:A4:1156:ASP:OD2	3:A6:168:ASP:N	2.51	0.43
3:A5:199:PHE:HA	4:B5:353:LEU:HA	1.99	0.43
3:A5:996:ASN:OD1	11:I5:56:ARG:N	2.51	0.43
3:A5:1101:GLN:OE1	11:I5:33:THR:HG21	2.14	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1391:ARG:NH2	28:Z2:868:GLN:O	2.51	0.43
3:A6:1400:SER:CB	28:Z4:909:LEU:CB	2.96	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:HD11	2.00	0.43
6:D2:749:LEU:CD2	6:D2:792:LEU:HD22	2.48	0.43
6:D3:584:LEU:HD22	6:D3:609:ILE:CD1	2.49	0.43
8:F1:1120:HIS:O	8:F1:1124:THR:HG23	2.18	0.43
8:F1:1203:TRP:CZ2	17:O2:248:SER:C	2.88	0.43
9:G2:256:GLN:HB3	17:O4:261:LYS:CA	2.49	0.43
11:I1:352:ASN:OD1	11:I1:353:LEU:N	2.51	0.43
11:I1:834:SER:N	17:O1:237:PRO:O	2.51	0.43
11:I1:920:PHE:H	16:N1:393:ILE:HG12	1.82	0.43
11:I2:828:VAL:HG13	17:O3:237:PRO:HB2	2.01	0.43
11:I2:890:TYR:HB2	17:O3:242:ARG:CA	2.47	0.43
11:I2:955:LYS:CA	16:N3:403:VAL:CG2	2.74	0.43
11:I2:956:ILE:HG22	15:M3:600:ASN:OD1	2.00	0.43
11:I2:997:SER:OG	16:N3:427:VAL:HG22	2.06	0.43
11:I2:1030:ARG:NH1	20:R3:175:GLN:CG	2.75	0.43
11:I3:271:ASP:OD1	11:I3:272:LYS:N	2.49	0.43
17:O3:99:LEU:O	17:O3:137:VAL:N	2.51	0.43
21:S1:1069:LEU:C	21:S1:1071:LEU:N	2.76	0.43
21:S2:626:SER:O	21:S2:627:PHE:C	2.60	0.43
23:U3:143:LYS:HG3	23:U3:144:TRP:N	2.32	0.43
24:V2:391:CYS:O	24:V2:395:ILE:HD11	2.17	0.43
24:V2:400:LEU:HB3	24:V2:426:TYR:OH	2.18	0.43
24:V2:526:HIS:C	24:V2:528:LEU:H	2.26	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
24:V4:365:SER:HB3	24:V4:368:GLU:HB2	2.01	0.43
24:V4:392:TYR:O	24:V4:394:GLN:N	2.44	0.43
25:W1:35:ILE:HB	25:W1:47:ASP:HB2	2.00	0.43
25:W1:52:HIS:CE1	25:W1:80:LEU:HD12	2.53	0.43
26:X4:335:PHE:O	26:X4:339:ILE:HG13	2.19	0.43
27:Y2:131:ASP:OD2	27:Y2:135:ARG:NH2	2.51	0.43
28:Z2:352:ILE:HD13	28:Z2:471:ILE:HG12	1.99	0.43
28:Z2:668:TYR:CZ	28:Z2:672:LYS:HE3	2.53	0.43
28:Z4:499:SER:O	28:Z4:500:GLU:C	2.60	0.43
30:b1:25:SER:HB2	30:b1:77:SER:HA	2.01	0.43
30:b1:115:ILE:HB	30:b1:123:THR:HB	2.01	0.43
30:b1:160:VAL:HG11	30:b1:202:VAL:HG13	2.01	0.43
30:b2:160:VAL:HG11	30:b2:202:VAL:HG13	2.01	0.43
30:b2:243:VAL:O	30:b2:245:THR:OG1	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b3:115:ILE:HB	30:b3:123:THR:HB	2.01	0.43
1:A1:1226:LEU:HB2	2:A2:725:GLU:HG3	2.00	0.43
2:A2:980:ARG:NE	6:D1:526:LEU:N	2.67	0.43
2:A2:1023:ILE:HG22	2:A2:1025:SER:N	2.34	0.43
2:A2:1141:GLU:HB3	3:A5:566:GLY:HA2	1.35	0.43
2:A2:1277:TRP:CD1	2:A2:1278:PRO:HD3	2.53	0.43
1:A3:1017:THR:HG21	1:A3:1048:ARG:NH1	2.33	0.43
2:A4:687:LEU:HD23	2:A4:688:TRP:N	2.34	0.43
2:A4:876:ARG:HG3	6:D3:564:ASN:HA	1.61	0.43
2:A4:1122:LEU:CA	3:A6:136:GLU:N	2.74	0.43
2:A4:1134:GLU:HG2	3:A6:145:THR:H	1.83	0.43
3:A5:996:ASN:OD1	11:I5:55:ASP:C	2.61	0.43
3:A6:1303:GLN:CB	28:Z4:838:GLN:HA	2.48	0.43
6:D2:649:VAL:HG12	6:D2:660:LYS:HD2	2.01	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
6:D6:749:LEU:CD2	6:D6:792:LEU:HD22	2.48	0.43
8:F2:1120:HIS:O	8:F2:1124:THR:HG23	2.18	0.43
9:G1:266:ASP:CA	16:N2:412:ASN:HA	2.29	0.43
11:I1:797:LEU:HD22	17:O1:245:GLU:CD	2.43	0.43
11:I1:992:ILE:HD12	15:M1:608:LYS:HB3	1.35	0.43
11:I2:352:ASN:OD1	11:I2:353:LEU:N	2.52	0.43
11:I2:879:VAL:C	17:O3:246:LEU:O	2.59	0.43
11:I2:889:THR:CB	17:O3:242:ARG:CD	2.54	0.43
11:I2:983:LEU:O	15:M3:613:ASP:CA	2.66	0.43
11:I2:985:ARG:O	15:M3:613:ASP:CG	2.22	0.43
11:I2:1030:ARG:O	20:R3:174:ARG:C	2.60	0.43
11:I2:1609:GLY:C	12:J1:295:TYR:CE1	2.95	0.43
11:I3:352:ASN:OD1	11:I3:353:LEU:N	2.51	0.43
11:I5:352:ASN:OD1	11:I5:353:LEU:N	2.52	0.43
21:S2:404:LEU:O	21:S2:405:CYS:HB2	2.18	0.43
21:S2:946:LEU:HD11	22:T2:898:ARG:HG2	1.99	0.43
21:S3:1078:LEU:HD21	21:S3:1097:LYS:HE3	2.01	0.43
21:S3:1119:LEU:HB2	21:S3:1155:GLN:CD	2.43	0.43
21:S4:404:LEU:O	21:S4:405:CYS:HB2	2.18	0.43
21:S4:536:HIS:O	21:S4:537:ALA:C	2.62	0.43
23:U2:222:VAL:O	24:V2:256:VAL:HG22	2.18	0.43
23:U3:385:LEU:O	23:U3:389:VAL:HG23	2.18	0.43
24:V1:247:TYR:CE2	24:V1:260:LEU:HD13	2.54	0.43
24:V1:345:SER:HB3	24:V1:371:PHE:HE2	1.84	0.43
24:V3:203:ARG:NE	24:V3:210:GLN:HB2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:344:TRP:C	24:V3:346:THR:H	2.27	0.43
25:W2:9:ASN:HD22	25:W2:9:ASN:HA	1.47	0.43
25:W4:63:HIS:CD2	25:W4:64:PRO:HD2	2.53	0.43
26:X2:60:LYS:C	26:X2:62:GLY:N	2.77	0.43
27:Y4:303:HIS:HA	27:Y4:325:ASP:OD2	2.19	0.43
28:Z1:530:LYS:HB2	30:b1:185:SER:HB3	0.82	0.43
28:Z1:561:GLN:HG2	30:b1:235:LEU:CB	2.34	0.43
28:Z2:527:SER:N	30:b2:206:ASN:OD1	2.51	0.43
28:Z2:554:PHE:CA	30:b2:233:TRP:O	2.61	0.43
28:Z3:523:ASP:C	30:b3:238:ASN:HA	2.19	0.43
28:Z4:531:LYS:CG	30:b4:182:PRO:O	2.61	0.43
28:Z4:563:GLU:OE2	30:b4:303:LEU:HD23	2.18	0.43
29:a3:16:THR:HG22	29:a3:34:THR:HG22	1.99	0.43
30:b1:10:LEU:HG	30:b1:379:SER:HA	2.01	0.43
30:b3:25:SER:HB2	30:b3:77:SER:HA	2.01	0.43
30:b4:115:ILE:HB	30:b4:123:THR:HB	2.01	0.43
2:A2:1148:ARG:HB2	3:A5:173:ASN:CA	2.49	0.43
2:A2:1152:ASP:CB	3:A5:173:ASN:CA	2.93	0.43
2:A4:974:PRO:C	6:D3:496:LEU:HA	2.43	0.43
2:A4:1277:TRP:CD1	2:A4:1278:PRO:HD3	2.53	0.43
3:A6:1300:LEU:HD23	28:Z4:875:LEU:HA	1.99	0.43
3:A6:1395:LYS:CG	28:Z4:889:LEU:CB	2.95	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:CD1	2.49	0.43
6:D3:815:GLU:CD	6:D3:815:GLU:C	2.87	0.43
6:D7:530:ARG:NH1	11:I3:182:VAL:CA	2.82	0.43
7:E5:94:ILE:O	7:E5:94:ILE:HG23	2.19	0.43
8:F1:332:VAL:O	8:F1:336:ALA:N	2.48	0.43
9:G1:255:LEU:HD12	17:O2:257:ALA:CA	2.48	0.43
9:G1:255:LEU:CA	17:O2:257:ALA:HB3	2.47	0.43
11:I1:72:GLU:N	11:I1:72:GLU:OE1	2.52	0.43
11:I1:1033:PRO:O	16:N1:441:PHE:CD1	2.70	0.43
11:I1:1109:LEU:N	16:N1:442:GLU:H	2.17	0.43
11:I1:1607:GLN:HB2	12:J2:298:PHE:HE1	1.82	0.43
11:I2:72:GLU:N	11:I2:72:GLU:OE1	2.52	0.43
11:I2:939:ASN:H	17:O3:261:LYS:HG2	1.68	0.43
11:I2:994:ALA:HB1	17:O3:268:GLY:C	2.42	0.43
11:I2:1039:ALA:CB	20:R3:170:LEU:CG	0.74	0.43
11:I3:1275:SER:HG	26:X1:522:MET:HA	1.73	0.43
11:I4:1274:HIS:CG	26:X3:529:TRP:HB2	2.37	0.43
17:O3:156:ILE:HG22	17:O3:157:THR:N	2.34	0.43
17:O4:109:PRO:CG	18:P4:318:PRO:HG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:219:SER:C	21:S1:220:PHE:CD1	2.97	0.43
21:S2:1058:ILE:O	21:S2:1059:ASP:CB	2.58	0.43
21:S4:1119:LEU:C	21:S4:1121:GLU:N	2.71	0.43
23:U1:264:TYR:O	23:U1:268:SER:OG	2.34	0.43
23:U2:109:LEU:HD23	23:U2:298:ILE:HG13	2.00	0.43
24:V1:526:HIS:C	24:V1:528:LEU:H	2.26	0.43
24:V2:292:ILE:H	24:V2:292:ILE:CD1	2.27	0.43
26:X1:60:LYS:C	26:X1:62:GLY:N	2.77	0.43
26:X1:215:SER:HB2	26:X1:390:TRP:CZ2	2.53	0.43
26:X3:328:LEU:HA	26:X3:331:TYR:HB2	2.00	0.43
27:Y1:131:ASP:OD2	27:Y1:135:ARG:NH2	2.51	0.43
28:Z1:556:ASN:N	30:b1:212:PHE:CB	2.73	0.43
28:Z2:508:LYS:O	28:Z2:512:THR:HG23	2.19	0.43
28:Z2:551:THR:HB	30:b2:233:TRP:HH2	1.17	0.43
28:Z3:400:LYS:O	30:b3:252:ALA:HB2	2.12	0.43
28:Z3:560:ASN:HD22	30:b3:211:ILE:CG2	2.19	0.43
28:Z3:658:HIS:HA	28:Z3:661:GLN:OE1	2.18	0.43
30:b1:69:PRO:HD2	30:b1:107:GLN:HB2	2.00	0.43
30:b1:195:SER:OG	30:b1:263:SER:O	2.26	0.43
30:b2:78:SER:OG	30:b2:144:ASP:OD2	2.27	0.43
1:A1:1204:TRP:HZ3	2:A2:734:LEU:CD1	2.22	0.43
2:A2:978:ASP:O	6:D1:476:VAL:CB	2.67	0.43
2:A2:980:ARG:NH1	6:D1:525:ARG:N	2.64	0.43
2:A2:1153:LEU:C	3:A5:175:GLU:N	2.77	0.43
1:A3:1332:ARG:NH2	6:D3:636:ASP:OD1	2.51	0.43
1:A3:1333:ARG:HA	6:D3:637:LYS:HZ2	1.83	0.43
2:A4:130:ILE:HG13	2:A4:566:GLY:HA2	2.01	0.43
2:A4:871:ASN:C	2:A4:873:PRO:HD2	2.43	0.43
3:A5:1374:ALA:N	28:Z2:824:PHE:HA	2.32	0.43
6:D2:584:LEU:HD22	6:D2:609:ILE:HD11	2.01	0.43
6:D2:815:GLU:CD	6:D2:815:GLU:C	2.87	0.43
6:D4:584:LEU:HD22	6:D4:609:ILE:HD11	2.00	0.43
6:D6:584:LEU:HD22	6:D6:609:ILE:CD1	2.49	0.43
6:D7:584:LEU:HD22	6:D7:609:ILE:CD1	2.49	0.43
11:I1:928:LEU:HD11	20:R1:155:GLU:HG3	1.99	0.43
11:I1:977:ASN:OD1	15:M1:621:ARG:CA	2.66	0.43
11:I1:1021:ILE:H	16:N1:410:MET:N	2.17	0.43
11:I1:1029:LEU:HD22	20:R1:174:ARG:CD	2.48	0.43
11:I1:1042:LEU:HD22	15:M1:607:SER:HB3	2.00	0.43
11:I2:951:LYS:CB	17:O3:253:LEU:HD21	2.43	0.43
11:I2:951:LYS:HG3	17:O3:253:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:983:LEU:HD21	15:M3:604:ASN:ND2	2.33	0.43
11:I2:984:GLU:CD	15:M3:615:PRO:CA	2.66	0.43
11:I2:1047:CYS:HA	17:O3:287:LEU:HD22	2.00	0.43
11:I2:1048:GLU:CB	17:O3:284:LYS:HB3	2.38	0.43
11:I2:1069:SER:CB	16:N3:427:VAL:N	2.80	0.43
11:I3:72:GLU:N	11:I3:72:GLU:OE1	2.52	0.43
11:I3:130:LYS:NZ	11:I3:237:GLU:OE1	2.45	0.43
11:I3:1277:LEU:CG	26:X1:522:MET:CB	2.86	0.43
11:I4:1279:THR:CA	26:X3:520:GLU:O	2.67	0.43
11:I5:1279:THR:HG23	26:X2:521:TRP:N	2.30	0.43
21:S1:81:VAL:CG1	21:S1:471:VAL:HG11	2.49	0.43
21:S2:382:MET:HE2	21:S2:382:MET:HB3	1.63	0.43
21:S3:81:VAL:CG1	21:S3:471:VAL:HG11	2.49	0.43
21:S3:382:MET:HE2	21:S3:382:MET:HB3	1.63	0.43
21:S3:1119:LEU:O	21:S3:1121:GLU:N	2.52	0.43
22:T3:822:LEU:HD21	22:T3:880:MET:HG3	2.00	0.43
23:U1:81:LEU:HD12	23:U1:350:VAL:HG12	2.01	0.43
23:U1:314:ILE:HD12	24:V1:309:LYS:CE	2.48	0.43
23:U1:433:ALA:O	23:U1:435:PHE:N	2.44	0.43
23:U2:23:LYS:HD2	23:U2:434:THR:HG21	2.01	0.43
23:U3:77:LEU:HG	23:U3:125:TRP:CD2	2.54	0.43
23:U3:210:MET:SD	24:V3:333:ILE:HG23	2.58	0.43
24:V2:344:TRP:C	24:V2:346:THR:H	2.27	0.43
26:X1:265:ILE:C	26:X1:267:ARG:N	2.77	0.43
26:X1:335:PHE:O	26:X1:339:ILE:HG13	2.19	0.43
26:X3:215:SER:HB2	26:X3:390:TRP:CZ2	2.54	0.43
26:X4:221:GLU:HA	26:X4:224:ILE:HG13	2.00	0.43
27:Y4:219:SER:HG	27:Y4:312:TRP:HD1	1.62	0.43
28:Z1:534:ASP:HA	28:Z1:537:THR:OG1	2.18	0.43
28:Z2:411:LEU:HG	30:b2:251:ILE:HD13	2.01	0.43
28:Z4:523:ASP:HB2	30:b4:238:ASN:HA	0.72	0.43
30:b4:160:VAL:HG11	30:b4:202:VAL:HG13	2.01	0.43
1:A1:868:GLN:C	6:D3:277:ASN:N	2.77	0.43
1:A1:879:LEU:HD21	1:A1:908:LEU:HD12	2.01	0.43
1:A1:1399:ARG:HH22	2:A2:888:GLN:N	2.15	0.43
2:A2:225:THR:O	6:D1:708:ASP:CB	2.67	0.43
2:A2:687:LEU:HD23	2:A2:688:TRP:N	2.34	0.43
2:A2:1125:LEU:O	3:A5:137:HIS:CD2	2.65	0.43
2:A4:973:GLU:N	6:D3:205:LEU:HB3	2.24	0.43
2:A4:1023:ILE:HG22	2:A4:1025:SER:N	2.34	0.43
2:A4:1342:SER:OG	2:A4:1343:GLY:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1027:HIS:CD2	11:I5:67:LYS:HG3	2.54	0.43
6:D2:587:LEU:HD13	6:D2:631:LEU:HA	1.99	0.43
6:D4:445:LEU:HD12	6:D4:446:GLU:N	2.33	0.43
6:D7:749:LEU:CD2	6:D7:792:LEU:HD22	2.48	0.43
9:G1:252:LEU:HD22	17:O2:254:ARG:HH21	1.83	0.43
11:I1:884:LEU:HB2	17:O1:246:LEU:HG	1.65	0.43
11:I1:932:VAL:HA	15:M1:605:THR:N	2.34	0.43
11:I1:966:TRP:CA	20:R1:153:GLN:CG	2.91	0.43
11:I1:989:GLY:HA2	15:M1:608:LYS:HB3	1.73	0.43
11:I1:1664:PHE:H	11:I2:1667:GLN:HB2	1.21	0.43
11:I2:506:THR:HG23	11:I2:598:MET:HE3	2.01	0.43
11:I2:951:LYS:HG2	17:O3:253:LEU:HD21	2.00	0.43
11:I2:955:LYS:HB2	16:N3:403:VAL:CG2	2.48	0.43
11:I2:1052:LEU:O	17:O3:285:LYS:N	2.52	0.43
11:I4:1218:ASP:O	11:I4:1221:ASN:ND2	2.49	0.43
11:I4:1279:THR:N	11:I4:1280:PRO:CD	2.82	0.43
16:N4:429:GLU:OE2	16:N4:429:GLU:N	2.52	0.43
17:O1:156:ILE:HG22	17:O1:157:THR:N	2.33	0.43
17:O2:156:ILE:CG2	17:O2:157:THR:N	2.81	0.43
17:O4:98:TYR:HD2	17:O4:125:ALA:HB2	1.83	0.43
18:P1:280:THR:HB	18:P4:322:LYS:HE3	2.00	0.43
21:S2:968:LYS:HE2	21:S2:968:LYS:HB3	1.65	0.43
21:S4:219:SER:C	21:S4:220:PHE:CD1	2.97	0.43
22:T2:698:LYS:HE2	22:T2:845:GLN:NE2	2.34	0.43
22:T3:810:THR:OG1	22:T3:868:THR:HG21	2.19	0.43
22:T4:669:ARG:HA	22:T4:669:ARG:HD3	1.85	0.43
23:U1:109:LEU:HD23	23:U1:298:ILE:HG13	2.00	0.43
23:U1:341:HIS:HA	23:U1:342:PRO:HD3	1.89	0.43
23:U2:106:GLU:O	23:U2:110:MET:HG2	2.18	0.43
23:U2:210:MET:SD	24:V2:333:ILE:HG23	2.59	0.43
23:U4:77:LEU:HG	23:U4:125:TRP:CD2	2.54	0.43
23:U4:106:GLU:O	23:U4:110:MET:HG2	2.18	0.43
24:V1:365:SER:HB3	24:V1:368:GLU:HB2	2.01	0.43
24:V2:311:ALA:HB1	24:V2:316:ASN:O	2.18	0.43
24:V3:311:ALA:HB1	24:V3:316:ASN:O	2.18	0.43
26:X3:508:LEU:HG	26:X3:522:MET:HE3	2.01	0.43
26:X4:148:MET:HE3	26:X4:152:LEU:HG	2.00	0.43
26:X4:149:GLU:HG3	26:X4:186:ARG:NE	2.34	0.43
28:Z1:177:PHE:HD1	28:Z1:183:LEU:HD22	1.84	0.43
28:Z2:526:ARG:HD2	30:b2:240:LEU:HD22	2.00	0.43
28:Z3:295:ASN:ND2	28:Z3:329:TRP:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:527:SER:N	30:b3:206:ASN:OD1	2.51	0.43
28:Z3:558:LEU:HD23	30:b3:236:THR:HB	2.01	0.43
28:Z4:601:PHE:O	28:Z4:602:ILE:C	2.61	0.43
29:a3:44[B]:ILE:HD12	29:a3:100:PHE:CE2	2.54	0.43
29:a3:79:ASP:HB3	29:a3:137[B]:VAL:HG12	2.01	0.43
1:A1:835:THR:HG23	6:D3:302:PRO:HA	1.23	0.43
1:A1:1202:GLU:HB3	2:A2:729:SER:O	2.19	0.43
1:A1:1203:TYR:H	2:A2:730:THR:C	2.27	0.43
1:A1:1226:LEU:CA	2:A2:728:LYS:HB3	2.46	0.43
2:A2:215:ILE:HG21	2:A2:272:ILE:HD11	2.01	0.43
2:A2:864:ARG:HE	6:D1:632:ALA:CB	2.31	0.43
2:A2:867:GLU:OE1	6:D1:593:ARG:NE	2.52	0.43
2:A2:1140:GLU:C	3:A5:130:ILE:O	2.62	0.43
2:A2:1222:ALA:O	2:A2:1223:GLU:C	2.62	0.43
1:A3:1099:GLN:CB	11:I2:1414:CYS:O	2.64	0.43
2:A4:867:GLU:O	6:D3:584:LEU:CD2	2.60	0.43
2:A4:868:GLN:OE1	6:D3:570:VAL:HB	2.18	0.43
2:A4:977:VAL:HG13	6:D3:476:VAL:CG2	2.48	0.43
2:A4:1141:GLU:HB3	3:A6:130:ILE:HG13	1.93	0.43
2:A4:1305:ALA:HB1	2:A4:1306:PRO:CD	2.36	0.43
3:A5:231:SER:CB	5:C2:736:ASN:OD1	2.67	0.43
3:A5:1023:ILE:O	11:I5:95:LYS:HE2	2.19	0.43
3:A5:1404:LEU:CD2	28:Z2:913:ILE:O	2.63	0.43
3:A6:159:SER:HB2	5:C4:745:SER:H	1.83	0.43
3:A6:1359:LEU:HD23	28:Z4:874:ASN:N	2.34	0.43
6:D6:815:GLU:CD	6:D6:815:GLU:C	2.87	0.43
8:F1:1392:LEU:N	8:F1:1393:PRO:CD	2.82	0.43
9:G1:257:THR:HB	17:O2:250:LEU:CA	2.39	0.43
9:G1:260:THR:HG21	17:O2:259:ASP:CG	2.44	0.43
11:I1:130:LYS:NZ	11:I1:237:GLU:OE1	2.45	0.43
11:I1:506:THR:HG23	11:I1:598:MET:HE3	2.01	0.43
11:I1:966:TRP:HA	20:R1:153:GLN:HG2	1.99	0.43
11:I1:1033:PRO:O	16:N1:441:PHE:CZ	2.71	0.43
11:I1:1182:GLN:NE2	12:J1:245:GLU:CB	2.80	0.43
11:I1:1326:GLU:OE1	12:J1:255:LEU:HD22	2.19	0.43
11:I1:1666:THR:HG21	11:I2:1602:PHE:HD1	1.84	0.43
11:I2:958:THR:CB	16:N3:399:HIS:HA	2.49	0.43
11:I2:988:GLU:O	15:M3:608:LYS:CE	2.49	0.43
11:I2:1326:GLU:OE1	12:J2:255:LEU:HD22	2.19	0.43
11:I4:72:GLU:N	11:I4:72:GLU:OE1	2.52	0.43
11:I5:660:THR:OG1	11:I5:661:HIS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1274:HIS:N	26:X2:524:SER:OG	2.47	0.43
21:S1:536:HIS:O	21:S1:537:ALA:C	2.62	0.43
21:S2:1119:LEU:HB2	21:S2:1155:GLN:CD	2.43	0.43
21:S4:976:LEU:HG	22:T4:882:SER:HB3	2.01	0.43
21:S4:1020:LEU:H	21:S4:1020:LEU:CD2	2.31	0.43
21:S4:1119:LEU:HB2	21:S4:1155:GLN:CD	2.43	0.43
21:S4:1119:LEU:O	21:S4:1121:GLU:N	2.52	0.43
22:T3:774:PRO:HG2	22:T3:792:GLU:HA	2.00	0.43
22:T3:781:THR:HG23	22:T3:783:THR:N	2.33	0.43
23:U1:210:MET:SD	24:V1:333:ILE:HG23	2.59	0.43
23:U2:81:LEU:HD12	23:U2:350:VAL:HG12	2.01	0.43
23:U2:293:ILE:HD11	23:U2:327:VAL:CG2	2.49	0.43
23:U3:433:ALA:O	23:U3:435:PHE:N	2.44	0.43
23:U4:382:LYS:HA	23:U4:383:PRO:HD3	1.77	0.43
24:V1:394:GLN:HG2	24:V1:397:GLU:HB2	2.00	0.43
24:V3:365:SER:HB3	24:V3:368:GLU:HB2	2.01	0.43
24:V4:168:LYS:HE2	25:W4:45:LEU:HB2	2.00	0.43
24:V4:208:TYR:CE2	24:V4:505:GLU:HG3	2.54	0.43
26:X1:148:MET:HE3	26:X1:152:LEU:HG	2.00	0.43
26:X1:221:GLU:HA	26:X1:224:ILE:HG13	2.00	0.43
27:Y2:107:SER:HA	27:Y2:135:ARG:HH21	1.83	0.43
28:Z1:438:GLU:HB3	30:b1:314:PRO:HD2	1.93	0.43
28:Z1:601:PHE:O	28:Z1:602:ILE:C	2.62	0.43
28:Z2:524:VAL:H	30:b2:237:LEU:C	2.27	0.43
28:Z3:555:LYS:HB2	30:b3:233:TRP:CD2	2.53	0.43
28:Z3:556:ASN:ND2	30:b3:166:LEU:HD22	2.30	0.43
28:Z4:526:ARG:HD2	30:b4:240:LEU:HD22	2.00	0.43
30:b1:192:PHE:CE1	30:b1:200:LEU:HD22	2.52	0.43
1:A1:1203:TYR:HA	2:A2:732:GLN:HG3	1.41	0.42
2:A2:130:ILE:HG13	2:A2:566:GLY:HA2	2.01	0.42
2:A2:909:LYS:NZ	6:D1:601:PHE:CD1	2.85	0.42
1:A3:1196:GLU:O	1:A3:1200:ARG:HD3	2.19	0.42
2:A4:874:VAL:CG1	6:D3:567:LEU:O	2.64	0.42
2:A4:908:LEU:HD21	6:D3:601:PHE:CB	2.45	0.42
2:A4:1148:ARG:HB3	3:A6:174:PRO:HD2	1.99	0.42
3:A5:155:TYR:OH	5:C2:740:ARG:HD2	2.12	0.42
3:A6:157:TRP:HD1	5:C4:741:THR:CG2	2.30	0.42
6:D1:445:LEU:HD12	6:D1:446:GLU:N	2.33	0.42
11:I1:894:VAL:CG1	17:O1:238:ALA:N	2.80	0.42
11:I1:928:LEU:HD11	20:R1:155:GLU:CG	2.49	0.42
11:I1:956:ILE:HG23	20:R1:166:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:837:MET:H	17:O3:241:SER:HA	1.84	0.42
11:I2:965:ALA:CB	20:R3:165:SER:N	2.79	0.42
11:I2:1182:GLN:NE2	12:J2:245:GLU:CB	2.80	0.42
11:I3:1326:GLU:OE1	12:J3:255:LEU:HD22	2.19	0.42
11:I5:1311:LEU:HD13	11:I5:1311:LEU:C	2.44	0.42
17:O1:99:LEU:O	17:O1:137:VAL:N	2.51	0.42
21:S1:1097:LYS:NZ	21:S1:1097:LYS:HB3	2.34	0.42
21:S3:219:SER:C	21:S3:220:PHE:CD1	2.97	0.42
21:S3:968:LYS:HB3	21:S3:968:LYS:HE2	1.65	0.42
21:S3:1069:LEU:C	21:S3:1071:LEU:N	2.76	0.42
22:T1:698:LYS:HE2	22:T1:845:GLN:NE2	2.34	0.42
22:T1:822:LEU:HD21	22:T1:880:MET:HG3	2.00	0.42
22:T4:698:LYS:HE2	22:T4:845:GLN:NE2	2.34	0.42
23:U4:81:LEU:HD12	23:U4:350:VAL:HG12	2.00	0.42
23:U4:210:MET:SD	24:V4:333:ILE:HG23	2.59	0.42
24:V2:208:TYR:CE2	24:V2:505:GLU:HG3	2.54	0.42
24:V3:208:TYR:CE2	24:V3:505:GLU:HG3	2.54	0.42
24:V3:247:TYR:CE2	24:V3:260:LEU:HD13	2.54	0.42
24:V4:203:ARG:NE	24:V4:210:GLN:HB2	2.34	0.42
25:W3:280:LEU:HB2	25:W3:292:ALA:O	2.19	0.42
26:X1:57:PRO:HB3	26:X1:91:TYR:OH	2.19	0.42
26:X3:60:LYS:C	26:X3:62:GLY:N	2.77	0.42
26:X4:57:PRO:HB3	26:X4:91:TYR:OH	2.19	0.42
26:X4:215:SER:HB2	26:X4:390:TRP:CH2	2.54	0.42
28:Z1:436:HIS:CD2	28:Z1:438:GLU:H	2.37	0.42
28:Z1:522:ASN:HB2	30:b1:240:LEU:HB3	1.91	0.42
28:Z1:544:MET:HE2	30:b1:180:GLY:HA3	1.89	0.42
28:Z2:295:ASN:ND2	28:Z2:329:TRP:O	2.52	0.42
28:Z2:427:LEU:HD13	28:Z2:442:TYR:CE1	2.53	0.42
28:Z3:508:LYS:O	28:Z3:512:THR:HG23	2.19	0.42
28:Z3:534:ASP:HA	28:Z3:537:THR:OG1	2.18	0.42
28:Z3:601:PHE:O	28:Z3:602:ILE:C	2.61	0.42
28:Z4:177:PHE:HD1	28:Z4:183:LEU:HD22	1.84	0.42
28:Z4:180:ASP:HA	28:Z4:220:TYR:CD1	2.54	0.42
30:b1:328:TYR:CE1	30:b1:343:ASN:HB2	2.54	0.42
30:b3:264:ASP:OD1	30:b3:264:ASP:N	2.40	0.42
30:b3:328:TYR:CE1	30:b3:343:ASN:HB2	2.54	0.42
1:A1:890:ALA:C	1:A1:892:SER:H	2.27	0.42
1:A1:1018:ASP:CG	6:D1:819:ASN:CB	2.91	0.42
1:A1:1091:VAL:HB	6:D1:804:SER:OG	2.17	0.42
2:A2:1141:GLU:CB	3:A5:130:ILE:N	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:HB2	6:D3:501:LEU:CD1	2.19	0.42
2:A4:1341:ALA:O	2:A4:1342:SER:HB2	2.19	0.42
3:A5:889:VAL:HB	3:A5:892:SER:OG	2.18	0.42
3:A5:1369:ILE:CB	28:Z2:831:LEU:H	1.81	0.42
3:A5:1379:GLY:H	28:Z2:812:LEU:HA	1.08	0.42
3:A5:1398:LYS:HB2	28:Z2:874:ASN:CA	2.49	0.42
3:A6:1351:MSE:CA	28:Z4:917:ASP:CB	2.95	0.42
8:F1:1265:GLN:CD	17:O2:257:ALA:O	2.60	0.42
8:F2:1837:LYS:O	8:F2:1841:LEU:HD13	2.18	0.42
11:I1:921:GLU:CA	15:M1:596:ILE:CG1	2.95	0.42
11:I1:954:GLU:OE1	16:N1:405:ALA:HB3	2.19	0.42
11:I2:873:ILE:C	17:O3:255:GLY:HA2	2.41	0.42
11:I2:947:LEU:N	17:O3:256:TYR:CD2	2.83	0.42
11:I2:951:LYS:HB2	16:N3:404:GLU:HA	1.30	0.42
11:I2:976:ARG:NH2	20:R3:143:PHE:C	2.48	0.42
11:I2:990:GLU:HB3	17:O3:272:SER:HB2	1.97	0.42
11:I2:1019:LEU:CD2	16:N3:412:ASN:HD22	2.16	0.42
11:I2:1050:SER:HA	17:O3:290:TYR:HB2	1.97	0.42
11:I2:1058:GLY:CA	17:O3:277:GLU:C	2.83	0.42
11:I2:1279:THR:N	11:I2:1280:PRO:CD	2.82	0.42
11:I3:480:ASP:OD1	11:I3:481:ALA:N	2.52	0.42
11:I3:1275:SER:N	26:X1:522:MET:O	2.52	0.42
11:I4:1276:GLN:HE22	26:X3:535:ALA:CB	2.31	0.42
11:I5:1119:ARG:HH12	12:J5:240:GLY:HA3	1.84	0.42
11:I5:1278:ALA:HB2	26:X2:516:ASN:HB3	2.00	0.42
11:I5:1326:GLU:OE1	12:J5:255:LEU:HD22	2.19	0.42
12:J1:240:GLY:O	12:J1:241:THR:OG1	2.28	0.42
17:O2:156:ILE:HG22	17:O2:157:THR:N	2.34	0.42
17:O3:154:ARG:CG	18:P3:324:LEU:HD13	2.41	0.42
21:S1:1052:LEU:HA	21:S1:1052:LEU:HD13	1.81	0.42
21:S2:1119:LEU:O	21:S2:1121:GLU:N	2.52	0.42
21:S3:536:HIS:O	21:S3:537:ALA:C	2.62	0.42
21:S3:896:ASN:O	21:S3:900:PHE:N	2.52	0.42
21:S4:81:VAL:CG1	21:S4:471:VAL:HG11	2.49	0.42
21:S4:1097:LYS:NZ	21:S4:1097:LYS:HB3	2.34	0.42
22:T2:774:PRO:HG2	22:T2:792:GLU:HA	2.00	0.42
22:T4:810:THR:OG1	22:T4:868:THR:HG21	2.19	0.42
23:U3:293:ILE:HD11	23:U3:327:VAL:CG2	2.49	0.42
24:V1:531:LEU:O	24:V1:532:LYS:HG2	2.19	0.42
24:V2:168:LYS:HE2	25:W2:45:LEU:HB2	2.00	0.42
24:V3:153:LYS:HA	25:W3:261:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:531:LEU:O	24:V3:532:LYS:HG2	2.19	0.42
25:W2:35:ILE:HB	25:W2:47:ASP:HB2	2.00	0.42
25:W3:35:ILE:HB	25:W3:47:ASP:HB2	2.00	0.42
26:X1:159:ILE:HG12	26:X1:175:LEU:CB	2.39	0.42
26:X2:215:SER:HB2	26:X2:390:TRP:CH2	2.54	0.42
26:X2:243:GLN:O	26:X2:247:LYS:HG3	2.19	0.42
27:Y3:303:HIS:HA	27:Y3:325:ASP:OD2	2.19	0.42
28:Z1:295:ASN:ND2	28:Z1:329:TRP:O	2.52	0.42
28:Z2:410:ASN:N	30:b2:251:ILE:HD11	2.33	0.42
28:Z3:427:LEU:HD13	28:Z3:442:TYR:CE1	2.53	0.42
28:Z3:440:GLU:OE2	30:b3:313:PHE:C	2.62	0.42
28:Z4:295:ASN:ND2	28:Z4:329:TRP:O	2.52	0.42
29:a1:16:THR:HG22	29:a1:34:THR:HG22	1.99	0.42
1:A1:1201:ARG:NH2	2:A2:734:LEU:O	2.52	0.42
2:A2:288:ILE:HD11	2:A2:290:HIS:CE1	2.54	0.42
2:A2:779:ASP:OD2	6:D1:679:ILE:O	2.37	0.42
2:A2:779:ASP:OD1	6:D1:690:TYR:OH	2.29	0.42
2:A2:868:GLN:O	6:D1:598:ILE:HG21	2.19	0.42
2:A2:980:ARG:NH2	6:D1:524:ARG:O	2.52	0.42
2:A2:1135:ARG:HD3	3:A5:157:TRP:HA	1.99	0.42
2:A2:1341:ALA:O	2:A2:1342:SER:HB2	2.19	0.42
1:A3:773:PHE:CZ	1:A3:818:LEU:HD12	2.48	0.42
1:A3:890:ALA:C	1:A3:892:SER:H	2.27	0.42
2:A4:983:LEU:HB3	6:D3:553:PHE:HB3	2.01	0.42
2:A4:1141:GLU:O	3:A6:130:ILE:N	2.42	0.42
2:A4:1150:LEU:CD1	5:C4:731:LYS:HG3	2.47	0.42
2:A4:1154:PHE:CZ	4:B6:342:ARG:HB3	2.54	0.42
3:A5:230:LYS:C	5:C2:739:MET:O	2.63	0.42
3:A5:996:ASN:OD1	11:I5:53:THR:O	2.36	0.42
3:A5:1365:VAL:HG11	28:Z2:833:ASP:CA	2.49	0.42
3:A6:186:ILE:HG23	5:C4:745:SER:HB2	1.26	0.42
3:A6:1255:LEU:HB3	3:A6:1256:PRO:HD3	2.00	0.42
3:A6:1351:MSE:O	28:Z4:918:PHE:N	2.50	0.42
3:A6:1404:LEU:CA	28:Z4:919:PHE:O	2.66	0.42
3:A6:1413:SER:N	28:Z4:961:PHE:C	2.75	0.42
6:D2:584:LEU:HD22	6:D2:609:ILE:CD1	2.49	0.42
11:I1:834:SER:N	17:O1:237:PRO:C	2.65	0.42
11:I1:950:LEU:CD1	16:N1:410:MET:CB	2.81	0.42
11:I1:1107:SER:OG	16:N1:436:ALA:C	2.54	0.42
11:I1:1279:THR:N	11:I1:1280:PRO:CD	2.82	0.42
11:I1:1302:ARG:O	11:I1:1306:LEU:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:480:ASP:OD1	11:I2:481:ALA:N	2.51	0.42
11:I2:885:GLU:HG3	11:I2:955:LYS:HZ2	1.83	0.42
11:I2:887:GLN:CG	17:O3:246:LEU:CD1	2.97	0.42
11:I2:899:LEU:HD13	17:O3:230:ILE:C	2.41	0.42
11:I2:938:CYS:HB2	17:O3:261:LYS:HZ2	1.83	0.42
11:I2:948:ALA:CB	17:O3:256:TYR:N	2.79	0.42
11:I2:950:LEU:HD12	16:N3:410:MET:HB3	1.13	0.42
11:I2:951:LYS:N	16:N3:407:ALA:HB2	2.34	0.42
11:I2:981:VAL:HG12	20:R3:151:LYS:HB2	2.01	0.42
11:I2:1019:LEU:HB2	16:N3:409:ALA:HA	1.37	0.42
11:I2:1070:LEU:HD12	16:N3:430:ARG:N	2.33	0.42
11:I2:1119:ARG:HH12	12:J2:240:GLY:HA3	1.83	0.42
11:I3:1279:THR:N	11:I3:1280:PRO:CD	2.82	0.42
19:Q1:192:GLN:HE21	19:Q1:192:GLN:HA	1.84	0.42
21:S2:976:LEU:HG	22:T2:882:SER:HB3	2.01	0.42
21:S2:1021:SER:C	21:S2:1023:MET:H	2.28	0.42
21:S3:407:LEU:HD11	21:S3:417:ALA:HB1	2.00	0.42
21:S3:1143:VAL:HA	21:S3:1146:ALA:CB	2.41	0.42
22:T2:685:ARG:NH2	22:T2:716:PRO:HG2	2.32	0.42
22:T4:862:HIS:CD2	22:T4:903:LYS:HD3	2.55	0.42
24:V1:203:ARG:NE	24:V1:210:GLN:HB2	2.34	0.42
24:V2:176:LEU:HA	24:V2:177:PRO:HD2	1.87	0.42
24:V2:531:LEU:O	24:V2:532:LYS:HG2	2.19	0.42
24:V4:345:SER:HB3	24:V4:371:PHE:HE2	1.84	0.42
25:W3:60:ASP:H	25:W3:70:LEU:CD1	2.33	0.42
26:X1:149:GLU:HG3	26:X1:186:ARG:NE	2.34	0.42
26:X2:335:PHE:O	26:X2:339:ILE:HG13	2.19	0.42
26:X4:168:ARG:HD3	26:X4:170:ASN:HB3	2.02	0.42
27:Y3:76:SER:HB3	27:Y3:78:ASP:OD1	2.19	0.42
28:Z1:59:CYS:HB2	28:Z1:464:THR:OG1	2.19	0.42
28:Z1:180:ASP:HA	28:Z1:220:TYR:CD1	2.55	0.42
28:Z1:440:GLU:OE2	30:b1:313:PHE:C	2.62	0.42
28:Z1:558:LEU:HD23	30:b1:236:THR:HB	2.01	0.42
28:Z2:558:LEU:HD23	30:b2:236:THR:HB	2.01	0.42
28:Z3:180:ASP:HA	28:Z3:220:TYR:CD1	2.55	0.42
28:Z3:531:LYS:CB	30:b3:182:PRO:C	2.92	0.42
28:Z4:92:THR:HG21	28:Z4:479:TYR:OH	2.19	0.42
28:Z4:411:LEU:HG	30:b4:251:ILE:HD13	2.01	0.42
28:Z4:627:TYR:HA	28:Z4:661:GLN:OE1	2.20	0.42
29:a2:231[A]:HIS:CE1	29:a2:248:ARG:NH2	2.87	0.42
29:a4:44[B]:ILE:HD12	29:a4:100:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:b1:19:THR:HG22	30:b1:362:ASP:HB3	2.01	0.42
30:b3:19:THR:HG22	30:b3:362:ASP:HB3	2.01	0.42
30:b3:279:ARG:NH1	30:b3:327:ASP:OD1	2.43	0.42
30:b4:69:PRO:HD2	30:b4:107:GLN:HB2	2.00	0.42
2:A2:825:ARG:NH2	6:D1:677:GLN:HB3	2.34	0.42
2:A2:870:HIS:CD2	6:D1:551:PHE:C	2.98	0.42
2:A2:1122:LEU:C	3:A5:133:LYS:HA	2.45	0.42
2:A2:1143:LEU:HD13	3:A5:132:ASP:H	1.72	0.42
2:A4:858:ALA:O	6:D3:606:LYS:HE3	2.20	0.42
3:A5:1026:PRO:N	11:I5:66:LEU:CG	2.79	0.42
3:A6:220:VAL:HG11	5:C4:739:MET:CA	2.44	0.42
3:A6:1366:LEU:H	28:Z4:868:GLN:HA	1.74	0.42
3:A6:1369:ILE:C	28:Z4:826:TYR:CB	2.84	0.42
6:D1:815:GLU:CD	6:D1:815:GLU:C	2.87	0.42
6:D3:570:VAL:O	6:D3:574:VAL:HG23	2.20	0.42
6:D6:584:LEU:HD22	6:D6:609:ILE:HD11	2.00	0.42
7:E1:94:ILE:HG23	7:E1:94:ILE:O	2.19	0.42
7:E2:94:ILE:HG23	7:E2:94:ILE:O	2.19	0.42
7:E7:94:ILE:O	7:E7:94:ILE:HG23	2.19	0.42
8:F2:134:ASP:OD2	8:F2:1056:ARG:NH2	2.51	0.42
11:I1:480:ASP:OD1	11:I1:481:ALA:N	2.52	0.42
11:I1:1047:CYS:HA	15:M1:619:ILE:HG23	0.77	0.42
11:I2:899:LEU:HD12	17:O3:233:THR:CA	2.46	0.42
11:I2:952:LEU:O	15:M3:599:ILE:HG23	2.19	0.42
11:I2:1302:ARG:O	11:I2:1306:LEU:HD13	2.19	0.42
11:I5:1302:ARG:O	11:I5:1306:LEU:HD13	2.19	0.42
16:N3:429:GLU:N	16:N3:429:GLU:OE2	2.52	0.42
17:O1:104:ASP:OD2	18:P1:322:LYS:CD	2.64	0.42
20:R2:147:LEU:O	20:R2:151:LYS:N	2.52	0.42
20:R4:147:LEU:O	20:R4:151:LYS:N	2.52	0.42
21:S1:896:ASN:O	21:S1:900:PHE:N	2.52	0.42
21:S2:81:VAL:CG1	21:S2:471:VAL:HG11	2.49	0.42
21:S2:946:LEU:HD23	21:S2:946:LEU:HA	1.83	0.42
21:S3:626:SER:O	21:S3:627:PHE:C	2.60	0.42
21:S3:1020:LEU:H	21:S3:1020:LEU:CD2	2.31	0.42
22:T1:862:HIS:CD2	22:T1:903:LYS:HD3	2.55	0.42
22:T2:810:THR:OG1	22:T2:868:THR:HG21	2.19	0.42
23:U1:77:LEU:HG	23:U1:125:TRP:CD2	2.54	0.42
23:U1:359:ILE:HD13	23:U1:389:VAL:HG13	2.02	0.42
24:V1:155:SER:HB3	24:V1:159:MET:H	1.85	0.42
24:V2:452:TRP:CD1	24:V2:475:THR:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:153:LYS:HA	25:W4:261:SER:HB2	2.01	0.42
24:V4:400:LEU:HB3	24:V4:426:TYR:OH	2.18	0.42
26:X1:239:VAL:HB	26:X1:240:PHE:H	1.59	0.42
26:X1:243:GLN:O	26:X1:247:LYS:HG3	2.19	0.42
26:X1:328:LEU:HA	26:X1:331:TYR:HB2	2.00	0.42
26:X1:508:LEU:HG	26:X1:522:MET:HE3	2.01	0.42
26:X2:328:LEU:HA	26:X2:331:TYR:HB2	2.00	0.42
26:X4:328:LEU:HA	26:X4:331:TYR:HB2	2.00	0.42
28:Z1:111:GLN:HG3	28:Z1:168:TYR:CG	2.55	0.42
28:Z1:186:LEU:HD12	28:Z1:186:LEU:HA	1.91	0.42
28:Z2:53:GLY:HA3	28:Z2:71:HIS:HB3	2.02	0.42
28:Z2:436:HIS:CD2	28:Z2:438:GLU:H	2.37	0.42
28:Z2:561:GLN:HG2	30:b2:235:LEU:C	2.43	0.42
28:Z3:411:LEU:HG	30:b3:251:ILE:HD13	2.01	0.42
28:Z4:477:GLN:HA	28:Z4:478:PRO:HD2	1.87	0.42
28:Z4:527:SER:N	30:b4:206:ASN:OD1	2.51	0.42
28:Z4:531:LYS:CB	30:b4:182:PRO:C	2.92	0.42
29:a4:79:ASP:HB3	29:a4:137[B]:VAL:HG12	2.01	0.42
30:b3:69:PRO:HD2	30:b3:107:GLN:HB2	2.00	0.42
30:b4:10:LEU:HG	30:b4:379:SER:HA	2.01	0.42
30:b4:328:TYR:CE1	30:b4:343:ASN:HB2	2.54	0.42
1:A1:870:HIS:CB	6:D3:280:GLN:CA	2.82	0.42
2:A2:970:PHE:CE1	6:D1:196:ILE:CD1	2.97	0.42
2:A2:1133:GLU:OE1	3:A5:141:GLY:HA3	2.20	0.42
2:A2:1139:ILE:HG23	3:A5:131:PRO:CD	2.49	0.42
1:A3:1091:VAL:HG11	6:D3:807:THR:HB	2.02	0.42
1:A3:1204:TRP:N	2:A4:732:GLN:OE1	2.48	0.42
2:A4:173:ASN:HD22	6:D3:762:ARG:CA	2.31	0.42
2:A4:973:GLU:HB2	6:D3:498:GLU:HB3	2.02	0.42
2:A4:980:ARG:CG	6:D3:526:LEU:HB2	2.49	0.42
2:A4:1130:ARG:C	3:A6:161[A]:ASP:CB	2.91	0.42
3:A5:179:TYR:CG	5:C2:744:PHE:CG	3.04	0.42
3:A5:230:LYS:CA	5:C2:739:MET:O	2.67	0.42
3:A5:1017:THR:HA	3:A5:1020:ILE:HG22	2.02	0.42
3:A5:1033:GLN:HE22	11:I5:71:GLU:CG	2.32	0.42
3:A6:1312:ARG:NH2	28:Z4:841:ALA:O	2.48	0.42
3:A6:1387:ILE:CB	28:Z4:867:LYS:CB	2.98	0.42
3:A6:1407:GLY:C	26:X4:743:PHE:HA	2.45	0.42
5:C1:732:LYS:HG2	11:I1:1228:GLU:OE2	2.20	0.42
6:D4:815:GLU:CD	6:D4:815:GLU:C	2.87	0.42
8:F1:1262:HIS:CA	17:O2:262:ASP:OD1	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1392:LEU:N	8:F2:1393:PRO:CD	2.82	0.42
9:G1:258:LYS:NZ	16:N2:408:MET:HA	2.20	0.42
9:G1:269:GLU:OE1	16:N2:412:ASN:CA	2.35	0.42
11:I1:918:SER:OG	16:N1:389:PHE:N	2.37	0.42
11:I1:937:TYR:O	17:O1:258:GLU:O	2.37	0.42
11:I1:984:GLU:CA	15:M1:613:ASP:C	2.93	0.42
11:I1:1038:ILE:H	20:R1:168:LEU:C	2.27	0.42
11:I1:1061:ASP:HB2	17:O1:278:GLU:H	1.84	0.42
11:I2:957:SER:HA	20:R3:168:LEU:N	2.29	0.42
11:I2:990:GLU:OE1	15:M3:611:LYS:HD2	2.19	0.42
11:I2:991:THR:N	15:M3:611:LYS:HB2	2.11	0.42
11:I2:1052:LEU:N	17:O3:286:ILE:HB	2.22	0.42
11:I3:763:ASP:OD1	11:I3:835:ARG:NE	2.48	0.42
11:I3:1277:LEU:N	26:X1:523:LEU:HG	2.33	0.42
17:O4:156:ILE:HG22	17:O4:157:THR:N	2.34	0.42
21:S2:219:SER:C	21:S2:220:PHE:CD1	2.97	0.42
21:S2:934:HIS:C	21:S2:936:SER:N	2.78	0.42
21:S2:1058:ILE:HG22	21:S2:1059:ASP:N	2.35	0.42
22:T3:712:PHE:HZ	22:T3:751:ARG:HD3	1.84	0.42
23:U2:22:PHE:CG	23:U2:38:ILE:HD11	2.54	0.42
23:U2:390:THR:O	23:U2:394:ILE:HG12	2.19	0.42
23:U3:390:THR:O	23:U3:394:ILE:HG12	2.19	0.42
24:V2:153:LYS:HA	25:W2:261:SER:HB2	2.01	0.42
24:V2:247:TYR:CE2	24:V2:260:LEU:HD13	2.54	0.42
24:V3:168:LYS:HE2	25:W3:45:LEU:HB2	2.01	0.42
24:V4:452:TRP:CD1	24:V4:475:THR:HA	2.54	0.42
24:V4:531:LEU:O	24:V4:532:LYS:HG2	2.19	0.42
26:X2:57:PRO:HB3	26:X2:91:TYR:OH	2.19	0.42
26:X2:149:GLU:HG3	26:X2:186:ARG:NE	2.34	0.42
26:X2:454:LEU:HD21	26:X2:503:VAL:HG21	2.02	0.42
26:X3:57:PRO:HB3	26:X3:91:TYR:OH	2.19	0.42
26:X3:454:LEU:HD21	26:X3:503:VAL:HG21	2.02	0.42
26:X4:508:LEU:HG	26:X4:522:MET:HE3	2.01	0.42
27:Y3:29:SER:C	27:Y3:31:GLN:N	2.78	0.42
28:Z1:508:LYS:O	28:Z1:512:THR:HG23	2.19	0.42
28:Z1:560:ASN:HD22	30:b1:211:ILE:CG2	2.19	0.42
28:Z2:177:PHE:HD1	28:Z2:183:LEU:HD22	1.84	0.42
28:Z2:386:LEU:HD23	28:Z2:621:GLN:HA	2.01	0.42
28:Z2:561:GLN:HG3	30:b2:236:THR:N	2.17	0.42
28:Z2:601:PHE:O	28:Z2:602:ILE:C	2.61	0.42
28:Z2:623:LEU:HA	28:Z2:623:LEU:HD23	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:92:THR:HG21	28:Z3:479:TYR:OH	2.19	0.42
28:Z3:554:PHE:CE1	30:b3:233:TRP:O	2.67	0.42
28:Z4:436:HIS:CD2	28:Z4:438:GLU:H	2.37	0.42
28:Z4:440:GLU:OE2	30:b4:313:PHE:C	2.62	0.42
28:Z4:524:VAL:HG11	30:b4:236:THR:HB	1.88	0.42
28:Z4:544:MET:HE2	30:b4:180:GLY:HA3	1.89	0.42
29:a1:44[B]:ILE:HD12	29:a1:100:PHE:CE2	2.54	0.42
30:b2:10:LEU:HG	30:b2:379:SER:HA	2.01	0.42
30:b2:19:THR:HG22	30:b2:362:ASP:HB3	2.01	0.42
30:b2:25:SER:HB2	30:b2:77:SER:HA	2.01	0.42
1:A1:1220:PRO:O	2:A2:645:PHE:HD1	1.97	0.42
2:A2:864:ARG:HD3	6:D1:610:ASN:H	1.85	0.42
2:A2:1135:ARG:HG3	3:A5:134:VAL:HG13	2.01	0.42
2:A2:1138:GLU:CB	3:A5:147:LEU:HD22	2.49	0.42
2:A2:1148:ARG:HH22	3:A5:171:HIS:C	2.16	0.42
1:A3:1223:GLU:HA	2:A4:731:ILE:HG21	2.02	0.42
2:A4:288:ILE:HD11	2:A4:290:HIS:CE1	2.54	0.42
2:A4:872:ALA:HB1	6:D3:565:MET:SD	2.47	0.42
2:A4:986:THR:CG2	6:D3:504:LYS:HG2	1.90	0.42
3:A5:1019:ARG:HG2	11:I5:54:LYS:HD2	1.02	0.42
3:A5:1395:LYS:HE2	28:Z2:872:TYR:CA	2.50	0.42
3:A6:156:ALA:O	5:C4:741:THR:HG23	2.19	0.42
3:A6:773:PHE:CZ	3:A6:818:LEU:HD12	2.48	0.42
3:A6:1356:SER:CB	28:Z4:884:GLU:N	2.83	0.42
3:A6:1375:THR:O	28:Z4:814:THR:O	2.38	0.42
8:F1:1261:TYR:OH	17:O2:260:LEU:C	2.54	0.42
8:F1:1266:MET:N	17:O2:262:ASP:CG	2.78	0.42
11:I1:1030:ARG:HE	20:R1:179:LYS:HD3	1.84	0.42
11:I1:1049:LEU:HA	15:M1:622:VAL:CG1	2.50	0.42
11:I1:1065:SER:C	16:N1:430:ARG:HG2	2.29	0.42
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD13	1.87	0.42
11:I2:877:ILE:HG13	17:O3:254:ARG:HB3	0.55	0.42
11:I2:965:ALA:HB3	20:R3:164:PRO:C	2.45	0.42
11:I2:980:ILE:HG21	15:M3:622:VAL:HG23	2.00	0.42
11:I3:1274:HIS:CB	26:X1:534:ILE:HG21	2.33	0.42
11:I4:1302:ARG:O	11:I4:1306:LEU:HD13	2.19	0.42
21:S1:116:CYS:HB3	21:S1:123:LEU:HD21	2.02	0.42
21:S1:1058:ILE:HG22	21:S1:1059:ASP:N	2.35	0.42
21:S2:178:ALA:HA	21:S2:183:SER:O	2.20	0.42
21:S3:277:VAL:HB	21:S3:286:PHE:CZ	2.54	0.42
21:S3:976:LEU:HG	22:T3:882:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:862:HIS:CD2	22:T2:903:LYS:HD3	2.55	0.42
22:T3:862:HIS:CD2	22:T3:903:LYS:HD3	2.55	0.42
23:U3:314:ILE:HD12	24:V3:309:LYS:CE	2.48	0.42
23:U4:22:PHE:CG	23:U4:38:ILE:HD11	2.54	0.42
24:V1:216:LEU:O	24:V1:217:LEU:HD23	2.19	0.42
24:V2:513:MET:HA	24:V2:541:ALA:HB1	2.02	0.42
25:W1:18:ASP:OD1	25:W1:18:ASP:N	2.46	0.42
25:W2:222:LEU:O	25:W2:233:ILE:HA	2.20	0.42
26:X1:396:ASP:OD1	26:X1:401:LYS:HE3	2.20	0.42
26:X3:149:GLU:HG3	26:X3:186:ARG:NE	2.34	0.42
26:X4:159:ILE:HD13	26:X4:176:GLU:HA	2.02	0.42
26:X4:511:TYR:HA	26:X4:512:PRO:HD3	1.73	0.42
27:Y3:192:ILE:HG22	27:Y3:207:LYS:HG2	2.02	0.42
28:Z1:117:LEU:HD23	28:Z1:117:LEU:HA	1.90	0.42
28:Z2:180:ASP:HA	28:Z2:220:TYR:CD1	2.55	0.42
28:Z2:533:LEU:CB	30:b2:164:CYS:SG	3.08	0.42
28:Z3:53:GLY:HA3	28:Z3:71:HIS:HB3	2.02	0.42
28:Z3:111:GLN:HG3	28:Z3:168:TYR:CG	2.55	0.42
28:Z3:436:HIS:CD2	28:Z3:438:GLU:H	2.37	0.42
28:Z3:561:GLN:HG2	30:b3:235:LEU:CB	2.34	0.42
28:Z4:59:CYS:HB2	28:Z4:464:THR:OG1	2.19	0.42
28:Z4:555:LYS:HE2	30:b4:216:LEU:CD2	2.11	0.42
29:a4:231[A]:HIS:CE1	29:a4:248:ARG:NH2	2.87	0.42
30:b3:10:LEU:HG	30:b3:379:SER:HA	2.01	0.42
30:b4:19:THR:HG22	30:b4:362:ASP:HB3	2.01	0.42
1:A1:780:GLU:HG3	1:A1:822:ILE:HG23	2.01	0.42
1:A1:874:VAL:HG11	6:D3:272:VAL:CB	2.47	0.42
2:A2:876:ARG:HD3	6:D1:558:LYS:CA	2.16	0.42
2:A2:1164:TYR:CB	4:B5:342:ARG:NE	2.78	0.42
1:A3:780:GLU:HG3	1:A3:822:ILE:HG23	2.02	0.42
1:A3:1021:LEU:CD1	6:D3:816:VAL:HG13	2.45	0.42
1:A3:1056:PHE:H	6:D3:809:ALA:HB2	1.84	0.42
2:A4:781:ARG:HH21	6:D3:633:LYS:NZ	2.17	0.42
2:A4:870:HIS:HD1	6:D3:566:PHE:CA	2.31	0.42
2:A4:978:ASP:C	6:D3:476:VAL:N	2.77	0.42
2:A4:981:PRO:HG2	6:D3:502:LEU:HG	1.78	0.42
2:A4:1158:ALA:N	3:A6:133:LYS:CE	2.83	0.42
3:A5:1155:ASN:ND2	5:C5:736:ASN:H	2.18	0.42
3:A5:1395:LYS:CG	28:Z2:873:LEU:CA	2.63	0.42
3:A6:1368:GLN:HG3	28:Z4:848:SER:CB	2.50	0.42
3:A6:1413:SER:CA	28:Z4:963:LYS:CB	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D1:570:VAL:O	6:D1:574:VAL:HG23	2.20	0.42
6:D4:584:LEU:HD22	6:D4:609:ILE:CD1	2.49	0.42
6:D5:584:LEU:HD22	6:D5:609:ILE:CD1	2.49	0.42
6:D6:573:LEU:O	6:D6:577:SER:OG	2.37	0.42
6:D7:584:LEU:HD22	6:D7:609:ILE:HD11	2.00	0.42
7:E4:94:ILE:O	7:E4:94:ILE:HG23	2.19	0.42
7:E6:94:ILE:O	7:E6:94:ILE:HG23	2.19	0.42
8:F1:1392:LEU:HD23	17:O2:266:GLN:HE22	1.79	0.42
9:G2:256:GLN:O	17:O4:259:ASP:CA	2.63	0.42
11:I1:615:ILE:HD12	11:I1:615:ILE:N	2.35	0.42
11:I1:874:LEU:O	17:O1:251:ILE:C	2.55	0.42
11:I1:890:TYR:CE1	17:O1:237:PRO:C	2.98	0.42
11:I1:921:GLU:O	15:M1:592:LEU:O	2.38	0.42
11:I1:934:LEU:C	15:M1:606:LEU:CB	2.90	0.42
11:I1:958:THR:H	16:N1:399:HIS:CB	2.31	0.42
11:I1:991:THR:N	15:M1:608:LYS:CG	2.82	0.42
11:I1:1043:LEU:CA	16:N1:430:ARG:CG	2.96	0.42
11:I2:885:GLU:HA	16:N3:397:GLU:CA	2.46	0.42
11:I2:951:LYS:NZ	16:N3:402:GLY:C	2.76	0.42
11:I2:957:SER:HB2	20:R3:168:LEU:HA	0.46	0.42
11:I2:977:ASN:CB	20:R3:147:LEU:CA	2.81	0.42
11:I3:1302:ARG:O	11:I3:1306:LEU:HD13	2.19	0.42
11:I4:271:ASP:OD1	11:I4:272:LYS:N	2.49	0.42
11:I4:1326:GLU:OE1	12:J4:255:LEU:HD22	2.19	0.42
19:Q2:204[B]:MSE:HE2	19:Q2:211:MSE:HB2	2.00	0.42
21:S1:933:GLU:O	21:S1:935:LEU:N	2.44	0.42
21:S1:946:LEU:HD11	22:T1:898:ARG:HG2	1.99	0.42
21:S3:934:HIS:C	21:S3:936:SER:N	2.78	0.42
21:S4:116:CYS:HB3	21:S4:123:LEU:HD21	2.01	0.42
21:S4:1003:LEU:O	21:S4:1006:GLU:HB3	2.20	0.42
22:T1:856:MET:HE2	22:T1:856:MET:HB3	1.88	0.42
22:T2:917:ASP:HB2	22:T2:918:PRO:CD	2.47	0.42
22:T2:917:ASP:OD1	22:T2:921:TYR:N	2.47	0.42
23:U2:77:LEU:HG	23:U2:125:TRP:CD2	2.54	0.42
23:U3:22:PHE:CG	23:U3:38:ILE:HD11	2.54	0.42
23:U3:23:LYS:HD2	23:U3:434:THR:HG21	2.01	0.42
23:U3:359:ILE:HD13	23:U3:389:VAL:HG13	2.02	0.42
24:V1:162:THR:HG22	24:V1:163:LYS:N	2.35	0.42
24:V1:418:PRO:HB3	24:V1:445:ALA:HB1	2.02	0.42
24:V1:440:ARG:HB3	25:W1:285:LEU:HD22	2.02	0.42
24:V3:155:SER:HB3	24:V3:159:MET:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:418:PRO:HB3	24:V3:445:ALA:HB1	2.02	0.42
24:V4:418:PRO:HB3	24:V4:445:ALA:HB1	2.02	0.42
25:W4:280:LEU:HB2	25:W4:292:ALA:O	2.19	0.42
26:X1:243:GLN:H	26:X1:243:GLN:HG3	1.64	0.42
26:X2:148:MET:HE3	26:X2:152:LEU:HG	2.00	0.42
26:X3:95:ILE:HA	26:X3:96:PRO:HD3	1.90	0.42
26:X3:148:MET:HE3	26:X3:152:LEU:HG	2.00	0.42
26:X3:243:GLN:O	26:X3:247:LYS:HG3	2.19	0.42
27:Y1:303:HIS:HA	27:Y1:325:ASP:OD2	2.19	0.42
27:Y2:76:SER:HB3	27:Y2:78:ASP:OD1	2.19	0.42
27:Y2:303:HIS:HA	27:Y2:325:ASP:OD2	2.19	0.42
27:Y3:107:SER:HA	27:Y3:135:ARG:HH21	1.83	0.42
28:Z1:558:LEU:HA	30:b1:236:THR:CA	2.45	0.42
28:Z2:627:TYR:HA	28:Z2:661:GLN:OE1	2.20	0.42
28:Z4:53:GLY:HA3	28:Z4:71:HIS:HB3	2.02	0.42
28:Z4:447:GLU:OE1	30:b4:250:GLY:C	2.63	0.42
28:Z4:554:PHE:CD2	30:b4:234:LEU:N	2.82	0.42
29:a2:44[B]:ILE:HD12	29:a2:100:PHE:CE2	2.54	0.42
29:a3:231[A]:HIS:CE1	29:a3:248:ARG:NH2	2.87	0.42
30:b1:51:PRO:O	30:b1:53:SER:N	2.45	0.42
30:b2:322:HIS:HA	30:b2:323:PRO:HD3	1.84	0.42
1:A1:1224:PRO:CG	2:A2:731:ILE:CB	2.88	0.42
2:A2:979:GLY:O	6:D1:472:PHE:HB2	2.19	0.42
2:A2:1126:VAL:O	3:A5:139:ASN:N	2.53	0.42
1:A3:1048:ARG:HD2	6:D3:790:ARG:NH2	2.35	0.42
1:A3:1090:SER:CB	6:D3:804:SER:CB	2.97	0.42
1:A3:1399:ARG:HH12	2:A4:888:GLN:HA	0.60	0.42
2:A4:982:THR:N	6:D3:497:PHE:CA	2.70	0.42
3:A6:1397:LEU:HA	28:Z4:909:LEU:CA	2.49	0.42
6:D4:450:GLU:OE1	6:D4:481:ARG:NH2	2.51	0.42
6:D7:570:VAL:O	6:D7:574:VAL:HG23	2.20	0.42
6:D7:815:GLU:CD	6:D7:815:GLU:C	2.87	0.42
8:F1:1137:GLN:C	17:O2:248:SER:HB3	2.38	0.42
11:I1:763:ASP:OD1	11:I1:835:ARG:NE	2.48	0.42
11:I1:926:SER:HB3	15:M1:597:LYS:HZ1	0.99	0.42
11:I1:933:ASP:N	15:M1:601:ASP:O	2.52	0.42
11:I1:1061:ASP:OD2	17:O1:278:GLU:CB	2.67	0.42
11:I1:1104:LEU:HD22	16:N1:433:GLU:O	2.19	0.42
11:I2:763:ASP:OD1	11:I2:835:ARG:NE	2.48	0.42
11:I2:797:LEU:CD2	17:O3:245:GLU:N	2.82	0.42
11:I2:841:PHE:HZ	17:O3:243:LEU:HD21	1.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:879:VAL:HB	17:O3:251:ILE:CD1	2.41	0.42
11:I2:925:LEU:CD2	20:R3:163:LEU:HB3	2.48	0.42
11:I2:955:LYS:CB	16:N3:400:LEU:CD2	2.88	0.42
11:I2:962:ILE:CG2	20:R3:166:LEU:O	2.30	0.42
11:I2:976:ARG:CA	20:R3:149:ARG:CA	2.69	0.42
11:I2:1045:PHE:CA	15:M3:619:ILE:HD12	2.44	0.42
11:I2:1051:LYS:C	17:O3:284:LYS:O	2.61	0.42
11:I2:1311:LEU:C	11:I2:1311:LEU:HD13	2.44	0.42
11:I3:1182:GLN:NE2	12:J3:245:GLU:CB	2.79	0.42
11:I3:1371:LEU:O	11:I3:1371:LEU:HD23	2.20	0.42
11:I4:506:THR:HG23	11:I4:598:MET:HE3	2.01	0.42
21:S3:1078:LEU:CD2	21:S3:1097:LYS:HG3	2.50	0.42
21:S3:1097:LYS:NZ	21:S3:1097:LYS:HB3	2.34	0.42
22:T1:814:LYS:HB3	22:T1:814:LYS:HE2	1.79	0.42
22:T2:669:ARG:HA	22:T2:669:ARG:HD3	1.85	0.42
22:T2:885:ARG:HG3	22:T2:885:ARG:NH1	2.17	0.42
23:U2:206:ILE:HG22	23:U2:210:MET:HE2	2.02	0.42
23:U2:343:ILE:HD13	23:U2:344:ARG:H	1.85	0.42
23:U3:382:LYS:HA	23:U3:383:PRO:HD3	1.77	0.42
23:U4:206:ILE:HG22	23:U4:210:MET:HE2	2.02	0.42
23:U4:343:ILE:HD13	23:U4:344:ARG:H	1.85	0.42
24:V2:365:SER:HB3	24:V2:368:GLU:HB2	2.01	0.42
24:V4:162:THR:HG22	24:V4:163:LYS:N	2.35	0.42
25:W1:60:ASP:H	25:W1:70:LEU:CD1	2.33	0.42
25:W1:222:LEU:O	25:W1:233:ILE:HA	2.20	0.42
25:W3:63:HIS:HA	25:W3:64:PRO:HD3	1.82	0.42
25:W4:60:ASP:H	25:W4:70:LEU:CD1	2.33	0.42
26:X2:65:MET:HA	26:X2:66:PRO:HD3	1.79	0.42
26:X4:265:ILE:C	26:X4:267:ARG:N	2.77	0.42
26:X4:403:HIS:O	26:X4:405:ILE:HG23	2.20	0.42
27:Y1:41:ASP:O	29:a1:231[B]:HIS:NE2	2.45	0.42
27:Y1:131:ASP:O	27:Y1:133:ILE:HG13	2.20	0.42
27:Y1:192:ILE:HG22	27:Y1:207:LYS:HG2	2.02	0.42
27:Y4:76:SER:HB3	27:Y4:78:ASP:OD1	2.19	0.42
28:Z1:531:LYS:CB	30:b1:182:PRO:C	2.92	0.42
28:Z1:554:PHE:CE1	30:b1:233:TRP:O	2.67	0.42
28:Z2:59:CYS:HB2	28:Z2:464:THR:OG1	2.19	0.42
28:Z2:447:GLU:OE1	30:b2:250:GLY:C	2.63	0.42
28:Z2:554:PHE:HB2	30:b2:232:PRO:HB2	1.24	0.42
28:Z2:555:LYS:HB2	30:b2:233:TRP:CD2	2.53	0.42
28:Z4:386:LEU:HD23	28:Z4:621:GLN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:a1:79:ASP:HB3	29:a1:137[B]:VAL:HG12	2.01	0.42
30:b3:200:LEU:C	30:b3:200:LEU:HD12	2.45	0.42
30:b4:25:SER:HB2	30:b4:77:SER:HA	2.01	0.42
30:b4:127:LEU:HD23	30:b4:127:LEU:HA	1.94	0.42
2:A2:551:GLN:HB2	2:A2:574:ARG:HD2	2.01	0.42
2:A4:215:ILE:HG21	2:A4:272:ILE:HD11	2.01	0.42
2:A4:349:LYS:NZ	2:A4:352:GLU:OE1	2.49	0.42
2:A4:780:GLU:OE2	6:D3:679:ILE:CG2	2.52	0.42
2:A4:861:GLN:CA	6:D3:607:PRO:HG3	2.48	0.42
2:A4:1349:ALA:O	2:A4:1350:VAL:HG12	2.20	0.42
3:A6:1352:GLY:C	28:Z4:918:PHE:CB	2.89	0.42
4:B5:354:LEU:C	4:B5:354:LEU:HD12	2.45	0.42
4:B6:354:LEU:C	4:B6:354:LEU:HD12	2.45	0.42
6:D4:734:PHE:CE1	6:D4:745:LEU:HD22	2.55	0.42
6:D5:734:PHE:CE1	6:D5:745:LEU:HD22	2.55	0.42
6:D7:512:LEU:HA	11:I3:181:GLN:N	2.34	0.42
6:D7:734:PHE:CE1	6:D7:745:LEU:HD22	2.55	0.42
8:F1:1202:TYR:O	17:O2:252:VAL:N	2.52	0.42
8:F2:924:GLU:OE2	8:F2:988:ARG:NE	2.53	0.42
9:G1:263:MET:HE1	16:N2:407:ALA:O	2.20	0.42
11:I1:881:ILE:CB	17:O1:249:ARG:O	2.66	0.42
11:I1:952:LEU:HD13	16:N1:400:LEU:HD22	1.81	0.42
11:I1:1311:LEU:C	11:I1:1311:LEU:HD13	2.44	0.42
11:I1:1610:VAL:HG11	11:I2:1669:ARG:CZ	2.46	0.42
11:I2:130:LYS:NZ	11:I2:237:GLU:OE1	2.45	0.42
11:I2:615:ILE:HD12	11:I2:615:ILE:N	2.35	0.42
11:I2:976:ARG:CZ	15:M3:622:VAL:HG21	2.50	0.42
11:I2:987:GLY:N	15:M3:613:ASP:CB	2.66	0.42
11:I2:1017:VAL:HG13	16:N3:410:MET:CB	2.40	0.42
11:I2:1066:LEU:N	16:N3:430:ARG:HE	1.97	0.42
11:I2:1104:LEU:HB3	16:N3:436:ALA:N	2.30	0.42
11:I2:1104:LEU:HA	16:N3:433:GLU:O	2.20	0.42
11:I3:615:ILE:HD12	11:I3:615:ILE:N	2.35	0.42
11:I3:1267:LEU:CD1	26:X1:529:TRP:CZ3	2.80	0.42
11:I4:1119:ARG:HH12	12:J4:240:GLY:HA3	1.83	0.42
11:I4:1274:HIS:HB3	26:X3:531:LEU:HD12	1.97	0.42
11:I4:1311:LEU:C	11:I4:1311:LEU:HD13	2.44	0.42
17:O1:75:ILE:N	17:O1:76:PRO:CD	2.83	0.42
21:S1:1078:LEU:HD21	21:S1:1097:LYS:HE3	2.01	0.42
21:S1:1119:LEU:O	21:S1:1121:GLU:N	2.52	0.42
21:S3:953:LEU:HD23	21:S3:953:LEU:HA	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:96:LEU:HD12	21:S4:96:LEU:HA	1.86	0.42
22:T1:669:ARG:HA	22:T1:669:ARG:HD3	1.85	0.42
22:T4:822:LEU:HD21	22:T4:880:MET:HG3	2.01	0.42
23:U1:23:LYS:HD2	23:U1:434:THR:HG21	2.01	0.42
23:U2:314:ILE:HD12	24:V2:309:LYS:CE	2.48	0.42
24:V1:344:TRP:C	24:V1:346:THR:H	2.27	0.42
24:V1:452:TRP:CD1	24:V1:475:THR:HA	2.54	0.42
24:V1:539:PHE:CD1	24:V1:539:PHE:C	2.98	0.42
24:V3:216:LEU:O	24:V3:217:LEU:HD23	2.19	0.42
24:V3:373:LEU:HB3	24:V3:376:LEU:HD12	2.02	0.42
24:V4:373:LEU:HB3	24:V4:376:LEU:HD12	2.02	0.42
26:X2:508:LEU:HG	26:X2:522:MET:HE3	2.01	0.42
26:X4:396:ASP:OD1	26:X4:401:LYS:HE3	2.20	0.42
28:Z1:287:LEU:O	28:Z1:300:MET:HA	2.20	0.42
28:Z3:533:LEU:CB	30:b3:164:CYS:SG	3.08	0.42
28:Z4:111:GLN:HG3	28:Z4:168:TYR:CG	2.55	0.42
28:Z4:406:ARG:HG3	30:b4:252:ALA:HB2	1.88	0.42
28:Z4:554:PHE:HB2	30:b4:232:PRO:HB2	1.24	0.42
1:A1:1399:ARG:NH2	2:A2:888:GLN:N	2.25	0.42
2:A2:1151:THR:HG22	3:A5:171:HIS:HD2	1.65	0.42
1:A3:1052:THR:HG1	6:D3:816:VAL:HG21	1.83	0.42
2:A4:908:LEU:CA	6:D3:552:TYR:OH	2.68	0.42
3:A5:177:ILE:CD1	5:C2:740:ARG:CD	2.89	0.42
3:A5:1277:TRP:CG	3:A5:1278:PRO:HD3	2.55	0.42
3:A5:1310:ARG:HH21	28:Z2:827:GLN:CB	2.33	0.42
3:A5:1399:ARG:NH1	28:Z2:909:LEU:C	2.70	0.42
3:A6:189:VAL:HG21	5:C4:742:ASP:O	2.19	0.42
3:A6:221:SER:H	5:C4:738:ASP:HA	1.84	0.42
3:A6:1388:ALA:C	28:Z4:866:GLU:CA	2.92	0.42
3:A6:1416:ARG:HA	28:Z4:967:PHE:HA	2.02	0.42
4:B4:354:LEU:C	4:B4:354:LEU:HD12	2.45	0.42
6:D1:649:VAL:HG12	6:D1:660:LYS:HD2	2.01	0.42
6:D3:734:PHE:CE1	6:D3:745:LEU:HD22	2.55	0.42
6:D6:734:PHE:CE1	6:D6:745:LEU:HD22	2.55	0.42
6:D7:531:LEU:HA	11:I3:181:GLN:CB	2.35	0.42
8:F1:1836:GLU:O	8:F1:1839:VAL:HG12	2.20	0.42
11:I1:797:LEU:HD11	17:O1:244:GLU:C	2.44	0.42
11:I1:881:ILE:HA	17:O1:249:ARG:HH21	1.85	0.42
11:I1:882:LYS:CA	17:O1:245:GLU:C	2.92	0.42
11:I1:885:GLU:CD	17:O1:249:ARG:HE	2.28	0.42
11:I1:951:LYS:CB	17:O1:253:LEU:CD2	2.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1042:LEU:CA	20:R1:170:LEU:HD11	2.49	0.42
11:I1:1043:LEU:CG	20:R1:170:LEU:HD22	2.50	0.42
11:I1:1119:ARG:HH12	12:J1:240:GLY:HA3	1.84	0.42
11:I1:1662:ARG:CB	11:I2:1603:ARG:HH12	2.32	0.42
11:I2:886:LEU:HB2	17:O3:242:ARG:HA	2.02	0.42
11:I2:911:PRO:CA	15:M3:584:GLN:NE2	2.70	0.42
11:I2:1114:VAL:HG21	16:N3:436:ALA:H	1.85	0.42
11:I3:1311:LEU:C	11:I3:1311:LEU:HD13	2.44	0.42
11:I5:506:THR:HG23	11:I5:598:MET:HE3	2.01	0.42
17:O2:75:ILE:N	17:O2:76:PRO:CD	2.83	0.42
17:O4:111:TYR:C	18:P1:278:ASN:HD22	2.28	0.42
19:Q3:192:GLN:HA	19:Q3:192:GLN:HE21	1.84	0.42
21:S1:1003:LEU:O	21:S1:1006:GLU:HB3	2.20	0.42
21:S3:178:ALA:HA	21:S3:183:SER:O	2.19	0.42
21:S3:1021:SER:C	21:S3:1023:MET:H	2.27	0.42
21:S4:531:ARG:O	21:S4:535:GLY:O	2.38	0.42
21:S4:1021:SER:C	21:S4:1023:MET:H	2.28	0.42
22:T1:781:THR:HG23	22:T1:783:THR:N	2.33	0.42
22:T2:781:THR:O	22:T2:785:LYS:HG3	2.20	0.42
22:T2:797:MET:HE2	22:T2:797:MET:HB3	1.98	0.42
22:T4:712:PHE:HZ	22:T4:751:ARG:HD3	1.84	0.42
22:T4:829:MET:HE3	22:T4:846:MET:HA	2.02	0.42
23:U1:206:ILE:HG22	23:U1:210:MET:HE2	2.02	0.42
23:U2:353:ASP:O	23:U2:355:LEU:N	2.51	0.42
24:V1:330:ASP:OD2	24:V1:332:ARG:NH2	2.51	0.42
24:V2:373:LEU:HB3	24:V2:376:LEU:HD12	2.02	0.42
24:V3:513:MET:HA	24:V3:541:ALA:HB1	2.02	0.42
26:X1:215:SER:HB2	26:X1:390:TRP:CH2	2.54	0.42
26:X1:269:ASP:OD1	26:X1:269:ASP:N	2.52	0.42
26:X3:215:SER:HB2	26:X3:390:TRP:CH2	2.54	0.42
26:X4:220:ASP:OD2	26:X4:222:GLU:HB3	2.20	0.42
26:X4:243:GLN:O	26:X4:247:LYS:HG3	2.19	0.42
26:X4:269:ASP:OD1	26:X4:269:ASP:N	2.53	0.42
26:X4:454:LEU:HD21	26:X4:503:VAL:HG21	2.01	0.42
27:Y2:175:PRO:HD3	27:Y2:220:TRP:HB3	2.02	0.42
27:Y2:192:ILE:HG22	27:Y2:207:LYS:HG2	2.02	0.42
28:Z1:386:LEU:HD23	28:Z1:621:GLN:HA	2.01	0.42
28:Z1:524:VAL:H	30:b1:237:LEU:C	2.27	0.42
28:Z2:531:LYS:CB	30:b2:182:PRO:C	2.92	0.42
28:Z3:59:CYS:HB2	28:Z3:464:THR:OG1	2.19	0.42
28:Z3:522:ASN:ND2	30:b3:241:PRO:HA	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z4:554:PHE:HD1	30:b4:232:PRO:HB2	1.71	0.42
28:Z4:555:LYS:HE3	30:b4:216:LEU:HD22	1.31	0.42
28:Z4:555:LYS:CG	30:b4:233:TRP:HA	2.50	0.42
30:b2:328:TYR:CE1	30:b2:343:ASN:HB2	2.54	0.42
1:A1:832:ASN:CG	6:D3:298:ASN:CB	2.47	0.41
2:A2:865:ALA:N	6:D1:604:ASP:C	2.77	0.41
2:A2:872:ALA:HB3	6:D1:565:MET:CE	2.49	0.41
2:A2:875:LEU:N	6:D1:568:ARG:N	2.51	0.41
2:A2:970:PHE:CA	6:D1:192:TYR:CE1	2.73	0.41
2:A2:1349:ALA:O	2:A2:1350:VAL:HG12	2.20	0.41
1:A3:861:GLN:O	1:A3:865:ALA:N	2.52	0.41
1:A3:870:HIS:HB2	6:D1:277:ASN:ND2	2.35	0.41
1:A3:1021:LEU:CB	6:D3:816:VAL:O	2.67	0.41
1:A3:1223:GLU:OE2	2:A4:724:LEU:HD13	2.20	0.41
2:A4:823:VAL:HG11	2:A4:856:PHE:HB2	1.92	0.41
2:A4:865:ALA:HB2	6:D3:567:LEU:HD11	2.00	0.41
2:A4:878:LEU:HB3	6:D3:607:PRO:CG	2.50	0.41
2:A4:910:TYR:CD1	6:D3:564:ASN:ND2	2.88	0.41
2:A4:980:ARG:CA	6:D3:473:GLU:CA	2.81	0.41
3:A6:163:SER:CA	5:C4:744:PHE:CD2	2.83	0.41
3:A6:1277:TRP:CG	3:A6:1278:PRO:HD3	2.55	0.41
3:A6:1351:MSE:HE1	28:Z4:913:ILE:CA	2.49	0.41
3:A6:1376:LEU:HA	28:Z4:814:THR:CA	2.44	0.41
4:B1:354:LEU:C	4:B1:354:LEU:HD12	2.45	0.41
4:B3:354:LEU:C	4:B3:354:LEU:HD12	2.45	0.41
6:D7:176:SER:HB3	11:I3:95:LYS:HE2	2.02	0.41
8:F1:1544:ALA:N	8:F1:1545:PRO:CD	2.83	0.41
8:F1:1776:THR:O	8:F1:1776:THR:HG23	2.20	0.41
11:I1:961:ARG:O	20:R1:165:SER:CB	2.61	0.41
11:I1:1107:SER:O	16:N1:439:ARG:CG	2.65	0.41
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB2	1.88	0.41
11:I2:828:VAL:CG1	17:O3:237:PRO:CG	2.88	0.41
11:I2:933:ASP:O	15:M3:605:THR:HB	1.96	0.41
11:I2:982:GLN:CB	15:M3:621:ARG:HH22	2.20	0.41
11:I2:1018:LYS:CA	16:N3:409:ALA:O	2.65	0.41
11:I2:1110:SER:HB3	16:N3:435:ALA:HA	1.83	0.41
11:I3:1277:LEU:H	26:X1:523:LEU:H	1.68	0.41
11:I4:1270:LYS:CG	26:X3:530:ARG:HG3	2.50	0.41
11:I5:535:ASP:OD1	11:I5:536:GLU:N	2.53	0.41
21:S1:277:VAL:HB	21:S1:286:PHE:CZ	2.54	0.41
21:S1:445:ASN:OD1	21:S1:446:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1097:LYS:NZ	21:S2:1097:LYS:HB3	2.34	0.41
21:S3:445:ASN:OD1	21:S3:446:ALA:N	2.53	0.41
21:S3:1058:ILE:HG22	21:S3:1059:ASP:N	2.35	0.41
22:T3:675:ILE:HD13	22:T3:675:ILE:HA	1.87	0.41
23:U1:22:PHE:CG	23:U1:38:ILE:HD11	2.54	0.41
24:V1:263:LYS:HD3	24:V1:263:LYS:HA	1.75	0.41
24:V2:203:ARG:NE	24:V2:210:GLN:HB2	2.34	0.41
24:V4:247:TYR:CE2	24:V4:260:LEU:HD13	2.54	0.41
25:W2:223:ALA:HB2	25:W2:262:TRP:CZ2	2.55	0.41
25:W2:280:LEU:HB2	25:W2:292:ALA:O	2.19	0.41
26:X3:511:TYR:HA	26:X3:512:PRO:HD3	1.73	0.41
26:X4:239:VAL:HB	26:X4:240:PHE:H	1.59	0.41
27:Y1:16:VAL:HG12	27:Y1:63:TRP:CD1	2.55	0.41
27:Y1:189:GLU:HA	27:Y1:213:SER:O	2.20	0.41
27:Y2:189:GLU:HA	27:Y2:213:SER:O	2.20	0.41
27:Y3:175:PRO:HD3	27:Y3:220:TRP:HB3	2.02	0.41
27:Y4:175:PRO:HD3	27:Y4:220:TRP:HB3	2.02	0.41
28:Z1:92:THR:HG21	28:Z1:479:TYR:OH	2.19	0.41
28:Z1:410:ASN:N	30:b1:251:ILE:HD11	2.33	0.41
28:Z1:411:LEU:HG	30:b1:251:ILE:HD13	2.01	0.41
28:Z1:447:GLU:OE1	30:b1:250:GLY:C	2.63	0.41
28:Z2:440:GLU:OE2	30:b2:313:PHE:C	2.62	0.41
28:Z2:524:VAL:HG11	30:b2:236:THR:HB	1.88	0.41
28:Z3:177:PHE:HD1	28:Z3:183:LEU:HD22	1.84	0.41
28:Z3:535:ILE:CA	30:b3:182:PRO:HB3	2.50	0.41
28:Z4:523:ASP:C	30:b4:238:ASN:HA	2.19	0.41
29:a2:79:ASP:HB3	29:a2:137[B]:VAL:HG12	2.01	0.41
3:A5:222:ALA:CA	5:C2:739:MET:N	2.65	0.41
3:A5:1365:VAL:HG11	28:Z2:833:ASP:HA	2.02	0.41
3:A6:1414:PHE:C	28:Z4:963:LYS:CB	2.92	0.41
6:D6:450:GLU:OE1	6:D6:481:ARG:NH2	2.51	0.41
11:I1:876:ALA:HB2	17:O1:251:ILE:HG21	1.61	0.41
11:I1:1105:TRP:HA	16:N1:439:ARG:HE	1.74	0.41
11:I1:1605:LEU:HD22	11:I2:1669:ARG:HD3	2.01	0.41
11:I2:1051:LYS:NZ	17:O3:285:LYS:CD	2.37	0.41
11:I2:1051:LYS:C	17:O3:287:LEU:CD1	2.93	0.41
11:I2:1543:LEU:C	12:J1:300:ILE:HA	2.45	0.41
12:J2:247:ASP:O	12:J2:251:TYR:N	2.51	0.41
18:P2:320:GLN:CD	18:P3:278:ASN:HB3	2.44	0.41
21:S1:178:ALA:HA	21:S1:183:SER:O	2.20	0.41
21:S1:953:LEU:HD23	21:S1:953:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:1078:LEU:CD2	21:S1:1097:LYS:HG3	2.50	0.41
21:S2:116:CYS:HB3	21:S2:123:LEU:HD21	2.02	0.41
21:S2:531:ARG:O	21:S2:535:GLY:O	2.38	0.41
21:S2:1124:ASP:O	21:S2:1125:LEU:C	2.63	0.41
21:S4:965:ALA:HB2	21:S4:1021:SER:HB2	2.02	0.41
21:S4:1078:LEU:CD2	21:S4:1097:LYS:HG3	2.50	0.41
21:S4:1097:LYS:NZ	21:S4:1101:PHE:CE1	2.81	0.41
22:T1:712:PHE:HZ	22:T1:751:ARG:HD3	1.84	0.41
22:T2:712:PHE:HZ	22:T2:751:ARG:HD3	1.84	0.41
23:U4:104:LEU:HG	23:U4:224:ASP:HB3	2.02	0.41
24:V2:216:LEU:O	24:V2:217:LEU:HD23	2.19	0.41
24:V3:345:SER:HB3	24:V3:371:PHE:HE2	1.84	0.41
24:V4:440:ARG:HB3	25:W4:285:LEU:HD22	2.02	0.41
25:W3:222:LEU:O	25:W3:233:ILE:HA	2.20	0.41
25:W4:222:LEU:O	25:W4:233:ILE:HA	2.20	0.41
26:X1:454:LEU:HD21	26:X1:503:VAL:HG21	2.02	0.41
26:X2:403:HIS:O	26:X2:405:ILE:HG23	2.20	0.41
26:X3:78:ASN:HD21	26:X3:95:ILE:HG13	1.85	0.41
26:X3:159:ILE:HD13	26:X3:176:GLU:HA	2.02	0.41
26:X3:480:GLU:O	26:X3:483:PRO:HD2	2.21	0.41
28:Z1:521:SER:O	30:b1:238:ASN:HB3	2.13	0.41
28:Z3:386:LEU:HD23	28:Z3:621:GLN:HA	2.01	0.41
28:Z3:521:SER:HB2	30:b3:238:ASN:O	2.20	0.41
28:Z4:508:LYS:O	28:Z4:512:THR:HG23	2.19	0.41
28:Z4:522:ASN:ND2	30:b4:241:PRO:HA	2.33	0.41
28:Z4:526:ARG:HB2	30:b4:208:ASN:H	1.86	0.41
28:Z4:558:LEU:O	30:b4:234:LEU:O	2.29	0.41
29:a1:231[A]:HIS:CE1	29:a1:248:ARG:NH2	2.87	0.41
30:b1:200:LEU:HD12	30:b1:200:LEU:C	2.45	0.41
1:A1:868:GLN:HA	6:D3:275:PHE:HB3	2.01	0.41
1:A1:874:VAL:CG1	6:D3:272:VAL:CA	2.93	0.41
1:A1:1242:THR:HG22	1:A1:1245:ASP:H	1.85	0.41
2:A2:863:GLN:N	6:D1:606:LYS:H	2.18	0.41
1:A3:879:LEU:HD21	1:A3:908:LEU:HD12	2.01	0.41
2:A4:551:GLN:HB2	2:A4:574:ARG:HD2	2.01	0.41
2:A4:978:ASP:O	6:D3:475:ALA:C	2.62	0.41
2:A4:980:ARG:HG3	6:D3:526:LEU:HB2	2.01	0.41
2:A4:1148:ARG:CA	3:A6:172:PRO:O	2.50	0.41
2:A4:1222:ALA:O	2:A4:1223:GLU:C	2.62	0.41
3:A5:1139:ILE:HD11	5:C5:743:LEU:HD11	2.02	0.41
3:A6:1387:ILE:O	28:Z4:865:LYS:C	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D2:450:GLU:OE1	6:D2:481:ARG:NH2	2.51	0.41
6:D2:520:PRO:HA	6:D2:521:PRO:HD3	1.96	0.41
6:D2:649:VAL:O	6:D2:649:VAL:CG1	2.68	0.41
6:D2:734:PHE:CE1	6:D2:745:LEU:HD22	2.55	0.41
8:F1:215:ASP:OD1	8:F1:218:ARG:NH2	2.52	0.41
8:F1:1265:GLN:HB2	17:O2:263:GLN:H	1.61	0.41
9:G1:266:ASP:CA	16:N2:412:ASN:CA	2.93	0.41
11:I1:535:ASP:OD1	11:I1:536:GLU:N	2.53	0.41
11:I1:881:ILE:CD1	17:O1:253:LEU:HD11	2.48	0.41
11:I1:882:LYS:C	17:O1:245:GLU:HB3	2.45	0.41
11:I1:892:HIS:C	11:I1:893:LEU:HD12	2.45	0.41
11:I1:914:ASN:CB	15:M1:585:LEU:C	2.92	0.41
11:I1:921:GLU:OE2	16:N1:393:ILE:HA	2.19	0.41
11:I1:921:GLU:OE1	16:N1:393:ILE:N	2.53	0.41
11:I1:1044:GLY:CA	15:M1:616:LEU:HD13	2.50	0.41
11:I1:1371:LEU:O	11:I1:1371:LEU:HD23	2.20	0.41
11:I2:659:LYS:HE2	11:I2:664:LEU:HD21	2.02	0.41
11:I2:1049:LEU:C	17:O3:291:ASP:HB2	2.45	0.41
11:I3:535:ASP:OD1	11:I3:536:GLU:N	2.53	0.41
11:I3:844:LYS:HE2	29:a2:351:LEU:HD11	2.01	0.41
11:I3:1277:LEU:CB	26:X1:522:MET:CB	2.97	0.41
11:I4:535:ASP:OD1	11:I4:536:GLU:N	2.53	0.41
11:I4:615:ILE:HD12	11:I4:615:ILE:N	2.35	0.41
11:I4:1271:GLU:HA	26:X3:525:ILE:HG23	2.03	0.41
17:O4:110:LEU:N	18:P4:318:PRO:CA	2.82	0.41
21:S1:321:THR:HG22	21:S1:338:VAL:HG11	2.02	0.41
21:S1:965:ALA:HB2	21:S1:1021:SER:HB2	2.02	0.41
21:S1:1008:LEU:HA	21:S1:1009:PRO:HD3	1.97	0.41
21:S3:321:THR:HG22	21:S3:338:VAL:HG11	2.02	0.41
21:S3:531:ARG:O	21:S3:535:GLY:O	2.38	0.41
21:S3:965:ALA:HB2	21:S3:1021:SER:HB2	2.02	0.41
21:S4:277:VAL:HB	21:S4:286:PHE:CZ	2.54	0.41
22:T3:698:LYS:HE2	22:T3:845:GLN:NE2	2.34	0.41
23:U3:206:ILE:HG22	23:U3:210:MET:HE2	2.02	0.41
23:U4:293:ILE:HD11	23:U4:327:VAL:CG2	2.49	0.41
24:V1:208:TYR:CE2	24:V1:505:GLU:HG3	2.54	0.41
24:V2:418:PRO:HB3	24:V2:445:ALA:HB1	2.02	0.41
25:W4:227:GLN:C	25:W4:229:ARG:H	2.29	0.41
26:X3:269:ASP:OD1	26:X3:269:ASP:N	2.53	0.41
28:Z1:406:ARG:CG	30:b1:252:ALA:HB3	2.41	0.41
28:Z1:407:GLY:C	30:b1:251:ILE:CD1	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:623:LEU:HD23	28:Z1:623:LEU:HA	1.74	0.41
28:Z2:111:GLN:HG3	28:Z2:168:TYR:CG	2.55	0.41
28:Z2:167:PHE:O	28:Z2:174:SER:HB2	2.21	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
30:b1:237:LEU:HD13	30:b1:280:TRP:CD2	2.55	0.41
30:b4:212:PHE:CE1	30:b4:233:TRP:CE3	3.08	0.41
2:A2:1134:GLU:HB2	3:A5:147:LEU:CA	2.02	0.41
2:A2:1155:ASN:OD1	5:C2:735:ILE:HA	2.20	0.41
2:A2:1157:TYR:CB	3:A5:174:PRO:C	2.88	0.41
1:A3:1049:PHE:CA	6:D3:816:VAL:CG2	2.99	0.41
2:A4:870:HIS:O	6:D3:551:PHE:CE2	2.68	0.41
2:A4:986:THR:HB	6:D3:504:LYS:NZ	2.35	0.41
2:A4:1151:THR:HA	5:C4:733:LEU:CB	2.51	0.41
3:A5:780:GLU:HG3	3:A5:822:ILE:HG23	2.01	0.41
3:A5:1364:GLN:NE2	28:Z2:843:LYS:CA	2.81	0.41
3:A6:221:SER:N	5:C4:738:ASP:CB	2.82	0.41
3:A6:1358:LEU:HG	28:Z4:878:HIS:CB	2.50	0.41
3:A6:1371:GLY:HA3	28:Z4:822:SER:N	2.06	0.41
3:A6:1399:ARG:CA	28:Z4:890:ARG:CB	2.94	0.41
4:B6:345:LYS:O	5:C4:737:LYS:HE3	2.20	0.41
6:D2:570:VAL:O	6:D2:574:VAL:HG23	2.20	0.41
6:D5:649:VAL:HG12	6:D5:660:LYS:HD2	2.01	0.41
6:D7:190:TYR:OH	6:D7:600:LYS:HE2	2.21	0.41
8:F1:1205:TRP:CG	17:O2:254:ARG:HD3	2.46	0.41
8:F2:701:GLU:N	8:F2:701:GLU:OE2	2.53	0.41
11:I1:659:LYS:HE2	11:I1:664:LEU:HD21	2.02	0.41
11:I1:846:ILE:HA	17:O1:247:TRP:CH2	2.55	0.41
11:I1:934:LEU:HD11	15:M1:599:ILE:HA	2.02	0.41
11:I1:1111:ALA:HB1	16:N1:439:ARG:HH11	1.80	0.41
11:I2:535:ASP:OD1	11:I2:536:GLU:N	2.53	0.41
11:I2:882:LYS:HA	17:O3:249:ARG:HD2	0.88	0.41
11:I2:892:HIS:C	11:I2:893:LEU:HD12	2.45	0.41
11:I2:945:LEU:HD11	17:O3:254:ARG:O	2.20	0.41
11:I2:954:GLU:HG3	20:R3:172:ASP:OD2	2.20	0.41
11:I2:978:LYS:HZ1	20:R3:154:ALA:N	2.18	0.41
11:I2:980:ILE:CD1	20:R3:147:LEU:CA	2.55	0.41
11:I2:1034:ASP:HB3	16:N3:444:SER:OG	2.20	0.41
11:I2:1052:LEU:HD23	16:N3:434:LEU:HD21	2.03	0.41
11:I3:659:LYS:HE2	11:I3:664:LEU:HD21	2.02	0.41
21:S1:976:LEU:HG	22:T1:882:SER:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:348:ASN:HB2	21:S2:412:PHE:O	2.20	0.41
21:S2:1055:LEU:N	21:S2:1055:LEU:HD22	2.35	0.41
21:S3:116:CYS:HB3	21:S3:123:LEU:HD21	2.02	0.41
21:S3:348:ASN:HB2	21:S3:412:PHE:O	2.20	0.41
21:S3:1055:LEU:HD22	21:S3:1055:LEU:N	2.36	0.41
21:S4:348:ASN:HB2	21:S4:412:PHE:O	2.20	0.41
21:S4:445:ASN:OD1	21:S4:446:ALA:N	2.54	0.41
22:T1:685:ARG:HA	22:T1:685:ARG:HD3	1.93	0.41
22:T1:810:THR:OG1	22:T1:868:THR:HG21	2.19	0.41
22:T2:829:MET:HE3	22:T2:846:MET:HA	2.02	0.41
22:T3:685:ARG:HA	22:T3:685:ARG:HD3	1.93	0.41
22:T3:776:LEU:C	22:T3:778:PRO:HD3	2.46	0.41
22:T3:781:THR:O	22:T3:785:LYS:HG3	2.20	0.41
22:T3:851:LYS:HB3	22:T3:851:LYS:HE2	1.76	0.41
23:U1:293:ILE:HD11	23:U1:327:VAL:CG2	2.49	0.41
23:U4:146:ASN:HB2	23:U4:173:ASP:CG	2.45	0.41
25:W2:60:ASP:H	25:W2:70:LEU:CD1	2.33	0.41
26:X1:78:ASN:HD21	26:X1:95:ILE:HG13	1.85	0.41
26:X1:168:ARG:HD3	26:X1:170:ASN:HB3	2.02	0.41
26:X2:78:ASN:HD21	26:X2:95:ILE:HG13	1.85	0.41
26:X2:159:ILE:HD13	26:X2:176:GLU:HA	2.01	0.41
26:X2:269:ASP:OD1	26:X2:269:ASP:N	2.53	0.41
26:X3:373:GLU:O	26:X3:377:MET:HG3	2.21	0.41
27:Y3:77:TYR:HD1	27:Y3:110:SER:HB3	1.86	0.41
27:Y4:16:VAL:HG12	27:Y4:63:TRP:CD1	2.55	0.41
28:Z1:627:TYR:HA	28:Z1:661:GLN:OE1	2.19	0.41
28:Z2:285:ASN:OD1	28:Z2:285:ASN:N	2.48	0.41
28:Z2:523:ASP:C	30:b2:238:ASN:HA	2.19	0.41
28:Z3:627:TYR:HA	28:Z3:661:GLN:OE1	2.19	0.41
28:Z3:659:TYR:OH	28:Z3:743:ASN:C	2.64	0.41
28:Z4:526:ARG:O	30:b4:206:ASN:CG	2.37	0.41
28:Z4:561:GLN:HG2	30:b4:235:LEU:CB	2.34	0.41
30:b4:200:LEU:C	30:b4:200:LEU:HD12	2.45	0.41
1:A1:873:PRO:CB	6:D3:218:LYS:CE	2.97	0.41
2:A2:781:ARG:HE	6:D1:673:ARG:HH11	1.31	0.41
2:A2:904:GLN:C	6:D1:603:SER:H	2.29	0.41
1:A3:1224:PRO:HB3	2:A4:727:ASN:CB	2.50	0.41
2:A4:864:ARG:HG3	6:D3:605:THR:O	1.67	0.41
2:A4:904:GLN:HG2	6:D3:603:SER:HB3	2.03	0.41
2:A4:1140:GLU:N	3:A6:135:PHE:HA	2.36	0.41
2:A4:1151:THR:HG22	3:A6:175:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1027:HIS:CE1	11:I5:65:LYS:CA	2.88	0.41
6:D4:570:VAL:O	6:D4:574:VAL:HG23	2.20	0.41
6:D6:472:PHE:O	6:D6:476:VAL:HG23	2.21	0.41
6:D7:527:ASN:OD1	11:I3:181:GLN:NE2	2.54	0.41
6:D7:530:ARG:HG2	11:I3:182:VAL:H	1.85	0.41
11:I1:881:ILE:CA	17:O1:249:ARG:HH21	2.29	0.41
11:I1:950:LEU:HB2	16:N1:407:ALA:N	1.68	0.41
11:I1:1061:ASP:HB2	17:O1:277:GLU:HG3	1.04	0.41
11:I1:1669:ARG:CA	11:I2:1664:PHE:HZ	1.97	0.41
11:I2:877:ILE:CG1	17:O3:255:GLY:N	2.45	0.41
11:I2:962:ILE:CG1	15:M3:596:ILE:CG2	2.98	0.41
11:I2:964:SER:CA	20:R3:153:GLN:NE2	2.84	0.41
11:I2:976:ARG:NH2	15:M3:622:VAL:HG21	2.35	0.41
11:I2:977:ASN:CG	15:M3:621:ARG:CB	2.71	0.41
11:I2:1018:LYS:HE2	16:N3:413:VAL:HG12	1.91	0.41
11:I2:1032:THR:O	16:N3:441:PHE:HZ	2.04	0.41
11:I2:1049:LEU:CG	17:O3:291:ASP:OD1	2.67	0.41
11:I3:506:THR:HG23	11:I3:598:MET:HE3	2.01	0.41
11:I4:1605:LEU:HD12	11:I4:1605:LEU:C	2.46	0.41
11:I5:615:ILE:HD12	11:I5:615:ILE:N	2.35	0.41
11:I5:892:HIS:C	11:I5:893:LEU:HD12	2.45	0.41
17:O2:110:LEU:CG	18:P2:321:ILE:O	2.63	0.41
17:O3:75:ILE:N	17:O3:76:PRO:CD	2.83	0.41
21:S1:1039:GLU:HG2	21:S1:1039:GLU:H	1.59	0.41
21:S2:965:ALA:HB2	21:S2:1021:SER:HB2	2.02	0.41
21:S2:980:ALA:HB2	22:T2:897:LEU:HB3	2.02	0.41
21:S2:1020:LEU:H	21:S2:1020:LEU:CD2	2.31	0.41
21:S3:1037:CYS:HB3	21:S3:1039:GLU:CG	2.47	0.41
21:S3:1074:LEU:CD1	21:S3:1122:VAL:HG13	2.48	0.41
23:U4:7:TYR:O	23:U4:9:THR:N	2.54	0.41
24:V1:513:MET:HA	24:V1:541:ALA:HB1	2.01	0.41
24:V3:162:THR:HG22	24:V3:163:LYS:N	2.35	0.41
24:V4:155:SER:HB3	24:V4:159:MET:H	1.85	0.41
25:W2:78:LYS:HA	25:W2:96:ALA:HB2	2.02	0.41
25:W3:217:LEU:HD13	25:W3:218:LEU:N	2.35	0.41
25:W3:223:ALA:HB2	25:W3:262:TRP:CZ2	2.55	0.41
26:X1:57:PRO:HB2	26:X1:82:ILE:HD11	2.03	0.41
26:X2:265:ILE:C	26:X2:267:ARG:N	2.77	0.41
26:X2:480:GLU:O	26:X2:483:PRO:HD2	2.21	0.41
26:X2:531:LEU:HB3	26:X2:534:ILE:CG1	2.51	0.41
26:X3:168:ARG:HD3	26:X3:170:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:352:THR:OG1	26:X4:355:GLU:HG3	2.21	0.41
27:Y2:29:SER:C	27:Y2:31:GLN:N	2.78	0.41
27:Y3:313:ASN:HD22	27:Y3:313:ASN:HA	1.61	0.41
27:Y4:131:ASP:O	27:Y4:133:ILE:HG13	2.20	0.41
27:Y4:189:GLU:HA	27:Y4:213:SER:O	2.20	0.41
28:Z1:167:PHE:O	28:Z1:174:SER:HB2	2.21	0.41
28:Z1:549:LYS:CB	30:b1:182:PRO:CD	2.92	0.41
28:Z2:92:THR:HG21	28:Z2:479:TYR:OH	2.19	0.41
28:Z2:659:TYR:OH	28:Z2:743:ASN:C	2.64	0.41
28:Z3:526:ARG:HB2	30:b3:208:ASN:H	1.85	0.41
28:Z3:561:GLN:HG3	30:b3:236:THR:C	2.39	0.41
28:Z4:117:LEU:HD23	28:Z4:117:LEU:HA	1.89	0.41
28:Z4:167:PHE:O	28:Z4:174:SER:HB2	2.21	0.41
28:Z4:531:LYS:CD	30:b4:183:LEU:N	2.63	0.41
29:a3:365:CYS:SG	29:a3:373:TYR:HB2	2.61	0.41
30:b2:200:LEU:C	30:b2:200:LEU:HD12	2.45	0.41
1:A1:835:THR:HG23	6:D3:302:PRO:CB	2.26	0.41
1:A3:1049:PHE:C	6:D3:816:VAL:HG21	2.46	0.41
3:A5:1367:THR:CB	28:Z2:845:ILE:N	1.88	0.41
3:A6:221:SER:N	5:C4:738:ASP:HB3	2.27	0.41
3:A6:1312:ARG:HH22	28:Z4:841:ALA:C	2.27	0.41
6:D2:245:ARG:HG3	6:D2:503:LEU:HD21	2.03	0.41
6:D2:647:SER:HB3	6:D2:648:PRO:HD3	2.03	0.41
6:D3:245:ARG:HG3	6:D3:503:LEU:HD21	2.03	0.41
6:D3:619:LYS:HD3	11:I2:1518:VAL:N	2.35	0.41
6:D6:649:VAL:HG12	6:D6:660:LYS:HD2	2.01	0.41
6:D7:649:VAL:HG12	6:D7:660:LYS:HD2	2.01	0.41
8:F1:1779:GLY:O	8:F1:1783:LEU:HG	2.20	0.41
9:G1:250:THR:CB	15:M2:605:THR:HG22	2.50	0.41
11:I1:878:GLN:HE21	17:O1:252:VAL:HG11	1.85	0.41
11:I1:882:LYS:C	17:O1:245:GLU:HB2	2.46	0.41
11:I1:886:LEU:HA	17:O1:242:ARG:HD3	1.51	0.41
11:I1:927:HIS:O	15:M1:597:LYS:HG2	2.09	0.41
11:I1:955:LYS:CE	17:O1:249:ARG:NH2	2.83	0.41
11:I1:958:THR:HG21	16:N1:398:ALA:HB1	2.01	0.41
11:I1:1013:GLU:O	16:N1:412:ASN:HA	2.21	0.41
11:I1:1077:LEU:HD23	11:I1:1077:LEU:C	2.46	0.41
11:I1:1663:LYS:HE2	11:I2:1663:LYS:CE	2.50	0.41
11:I1:1677:LYS:HZ3	11:I2:1543:LEU:CD1	2.34	0.41
11:I2:1077:LEU:HD23	11:I2:1077:LEU:C	2.46	0.41
11:I2:1186:PRO:HD3	17:O4:225:GLN:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:775:ASP:OD2	29:a2:39:ASN:CB	2.69	0.41
15:M1:614:ASP:HB2	15:M1:615:PRO:HD2	2.03	0.41
17:O2:110:LEU:HD13	18:P2:321:ILE:HG21	1.36	0.41
17:O4:75:ILE:N	17:O4:76:PRO:CD	2.83	0.41
21:S2:1078:LEU:CD2	21:S2:1097:LYS:HG3	2.50	0.41
21:S4:934:HIS:C	21:S4:936:SER:N	2.78	0.41
23:U2:7:TYR:O	23:U2:9:THR:N	2.54	0.41
24:V3:440:ARG:HB3	25:W3:285:LEU:HD22	2.02	0.41
24:V3:452:TRP:CD1	24:V3:475:THR:HA	2.54	0.41
24:V4:216:LEU:O	24:V4:217:LEU:HD23	2.19	0.41
24:V4:539:PHE:CD1	24:V4:539:PHE:C	2.98	0.41
25:W1:217:LEU:HD13	25:W1:218:LEU:N	2.36	0.41
25:W1:223:ALA:HB2	25:W1:262:TRP:CZ2	2.55	0.41
25:W4:63:HIS:HD2	25:W4:65:LYS:H	1.68	0.41
26:X1:159:ILE:HD13	26:X1:176:GLU:HA	2.01	0.41
26:X1:220:ASP:OD2	26:X1:222:GLU:HB3	2.20	0.41
26:X2:246:TRP:CD1	26:X2:331:TYR:CD2	3.09	0.41
26:X2:352:THR:OG1	26:X2:355:GLU:HG3	2.21	0.41
26:X4:291:LEU:HD13	26:X4:310:VAL:HG22	2.02	0.41
28:Z1:53:GLY:HA3	28:Z1:71:HIS:HB3	2.02	0.41
28:Z1:297:LEU:HD23	28:Z1:297:LEU:HA	1.89	0.41
28:Z2:521:SER:HB2	30:b2:238:ASN:O	2.20	0.41
28:Z3:447:GLU:OE1	30:b3:250:GLY:C	2.63	0.41
28:Z3:561:GLN:NE2	30:b3:235:LEU:HD23	2.36	0.41
29:a4:365:CYS:SG	29:a4:373:TYR:HB2	2.61	0.41
30:b1:212:PHE:CE1	30:b1:233:TRP:CE3	3.08	0.41
2:A2:349:LYS:NZ	2:A2:352:GLU:OE1	2.49	0.41
2:A2:1136:LYS:C	3:A5:134:VAL:HG12	2.36	0.41
1:A3:1040:PHE:CD2	1:A3:1040:PHE:C	2.99	0.41
1:A3:1399:ARG:CB	2:A4:884:ARG:CZ	2.92	0.41
2:A4:827:ILE:HG22	2:A4:863:GLN:HB2	2.03	0.41
2:A4:982:THR:HG22	6:D3:496:LEU:HB2	2.01	0.41
2:A4:1148:ARG:CZ	3:A6:174:PRO:HD2	2.49	0.41
2:A4:1148:ARG:HH21	3:A6:174:PRO:CD	2.33	0.41
3:A5:1368:GLN:CA	28:Z2:844:CYS:CB	2.96	0.41
3:A5:1408:GLU:CA	28:Z2:917:ASP:HA	2.50	0.41
6:D4:245:ARG:HG3	6:D4:503:LEU:HD21	2.03	0.41
6:D6:647:SER:HB3	6:D6:648:PRO:HD3	2.03	0.41
6:D7:472:PHE:O	6:D7:476:VAL:HG23	2.21	0.41
8:F1:924:GLU:OE2	8:F1:988:ARG:NE	2.53	0.41
8:F1:1264:ARG:CB	17:O2:263:GLN:HA	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1264:ARG:CZ	17:O2:264:ILE:HD13	2.50	0.41
8:F2:215:ASP:OD1	8:F2:218:ARG:NH2	2.52	0.41
8:F2:1776:THR:O	8:F2:1776:THR:HG23	2.20	0.41
11:I1:838:GLU:N	17:O1:240:GLY:CA	2.62	0.41
11:I1:940:LEU:CD1	17:O1:258:GLU:HB3	2.49	0.41
11:I1:1034:ASP:HB3	20:R1:177:LEU:HD21	1.07	0.41
11:I1:1038:ILE:CG1	20:R1:167:GLN:HG3	2.44	0.41
11:I1:1055:GLU:HB3	17:O1:281:ALA:N	2.35	0.41
11:I2:955:LYS:CE	16:N3:396:ILE:O	2.68	0.41
11:I2:984:GLU:OE2	15:M3:615:PRO:C	2.57	0.41
11:I2:1036:PRO:HB3	17:O3:287:LEU:HD11	2.01	0.41
11:I2:1371:LEU:O	11:I2:1371:LEU:HD23	2.20	0.41
11:I5:1371:LEU:O	11:I5:1371:LEU:HD23	2.20	0.41
12:J1:247:ASP:O	12:J1:251:TYR:N	2.51	0.41
16:N2:368:ASN:OD1	17:O2:210:ARG:NH2	2.52	0.41
17:O4:98:TYR:CD1	17:O4:138:LEU:HA	2.56	0.41
21:S1:133:ILE:HG21	21:S1:133:ILE:HD13	1.69	0.41
21:S1:382:MET:HB3	21:S1:382:MET:HE2	1.63	0.41
21:S1:408:THR:HG23	21:S1:410:PRO:HD3	2.03	0.41
21:S2:445:ASN:OD1	21:S2:446:ALA:N	2.53	0.41
21:S2:997:GLU:HA	21:S2:997:GLU:OE2	2.21	0.41
21:S2:1003:LEU:O	21:S2:1006:GLU:HB3	2.20	0.41
21:S2:1008:LEU:HA	21:S2:1009:PRO:HD3	1.97	0.41
21:S4:178:ALA:HA	21:S4:183:SER:O	2.20	0.41
21:S4:184:ILE:CD1	21:S4:201:VAL:HG23	2.46	0.41
22:T1:817:MET:HE1	22:T1:860:LEU:HB2	2.03	0.41
22:T4:776:LEU:C	22:T4:778:PRO:HD3	2.45	0.41
23:U1:242:LEU:O	23:U1:243:TRP:C	2.63	0.41
23:U3:146:ASN:HB2	23:U3:173:ASP:CG	2.46	0.41
24:V4:292:ILE:H	24:V4:292:ILE:CD1	2.27	0.41
24:V4:513:MET:HA	24:V4:541:ALA:HB1	2.02	0.41
25:W3:78:LYS:HA	25:W3:96:ALA:HB2	2.03	0.41
26:X1:65:MET:HA	26:X1:66:PRO:HD3	1.79	0.41
26:X1:352:THR:OG1	26:X1:355:GLU:HG3	2.21	0.41
26:X1:403:HIS:O	26:X1:405:ILE:HG23	2.20	0.41
26:X3:159:ILE:HG12	26:X3:175:LEU:CB	2.39	0.41
26:X3:434:PHE:CD2	26:X3:458:ARG:HA	2.56	0.41
26:X4:227:VAL:C	26:X4:229:SER:N	2.79	0.41
28:Z1:535:ILE:CA	30:b1:182:PRO:HB3	2.50	0.41
28:Z1:561:GLN:NE2	30:b1:235:LEU:HD23	2.36	0.41
28:Z2:561:GLN:NE2	30:b2:235:LEU:HD23	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:167:PHE:O	28:Z3:174:SER:HB2	2.21	0.41
28:Z4:287:LEU:O	28:Z4:300:MET:HA	2.20	0.41
28:Z4:533:LEU:CB	30:b4:164:CYS:SG	3.08	0.41
28:Z4:535:ILE:CA	30:b4:182:PRO:HB3	2.50	0.41
28:Z4:558:LEU:HD23	30:b4:236:THR:HB	2.02	0.41
30:b4:237:LEU:HD13	30:b4:280:TRP:CD2	2.55	0.41
2:A4:404:LEU:HB3	2:A4:429:LEU:HD13	2.03	0.41
2:A4:982:THR:C	6:D3:502:LEU:CD2	2.94	0.41
2:A4:1054:SER:HB2	6:D4:762:ARG:CG	2.51	0.41
2:A4:1094:ILE:CD1	6:D4:708:ASP:CB	2.09	0.41
2:A4:1124:ARG:CA	3:A6:136:GLU:HB3	2.51	0.41
3:A5:1370:ALA:O	28:Z2:824:PHE:C	2.64	0.41
3:A5:1377:ARG:N	28:Z2:811:LEU:CB	2.83	0.41
3:A5:1401:VAL:C	28:Z2:918:PHE:CB	2.69	0.41
3:A6:222:ALA:HB2	5:C4:739:MET:HB3	2.02	0.41
3:A6:780:GLU:HG3	3:A6:822:ILE:HG23	2.01	0.41
3:A6:1365:VAL:HA	28:Z4:845:ILE:CA	2.40	0.41
3:A6:1389:SER:H	28:Z4:863:ASP:HA	1.86	0.41
6:D1:245:ARG:HG3	6:D1:503:LEU:HD21	2.03	0.41
6:D1:734:PHE:CE1	6:D1:745:LEU:HD22	2.55	0.41
6:D3:691:LEU:HD11	6:D3:717:LEU:HD23	2.03	0.41
6:D5:190:TYR:OH	6:D5:600:LYS:HE2	2.21	0.41
6:D7:245:ARG:HG3	6:D7:503:LEU:HD21	2.02	0.41
6:D7:691:LEU:HD11	6:D7:717:LEU:HD23	2.03	0.41
8:F1:1264:ARG:HE	17:O2:263:GLN:HG3	1.36	0.41
8:F2:462:SER:N	8:F2:463:PRO:CD	2.84	0.41
8:F2:1779:GLY:O	8:F2:1783:LEU:HG	2.20	0.41
11:I1:797:LEU:HB3	17:O1:245:GLU:CD	2.46	0.41
11:I1:917:TYR:HA	15:M1:589:GLY:HA2	1.64	0.41
11:I1:928:LEU:CD1	20:R1:155:GLU:CG	2.97	0.41
11:I1:934:LEU:CD1	15:M1:599:ILE:O	2.60	0.41
11:I1:1052:LEU:HA	17:O1:283:ALA:O	2.18	0.41
11:I1:1052:LEU:CA	17:O1:287:LEU:CD1	2.89	0.41
11:I1:1101:LEU:HD23	16:N1:432:TYR:HE1	1.85	0.41
11:I2:1020:ALA:CB	16:N3:408:MET:N	2.59	0.41
11:I2:1061:ASP:OD2	17:O3:278:GLU:HB2	2.21	0.41
21:S1:348:ASN:HB2	21:S1:412:PHE:O	2.20	0.41
21:S2:536:HIS:O	21:S2:537:ALA:C	2.62	0.41
21:S2:997:GLU:O	21:S2:1000:ARG:HB2	2.21	0.41
21:S3:933:GLU:O	21:S3:935:LEU:N	2.44	0.41
22:T2:776:LEU:C	22:T2:778:PRO:HD3	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:862:HIS:CE1	22:T4:903:LYS:HB3	2.56	0.41
23:U1:363:VAL:HG11	23:U1:408:ASP:OD1	2.21	0.41
23:U1:382:LYS:HA	23:U1:383:PRO:HD3	1.77	0.41
24:V1:341:LEU:HD12	24:V1:341:LEU:HA	1.94	0.41
24:V2:345:SER:HB3	24:V2:371:PHE:HE2	1.84	0.41
24:V2:539:PHE:CD1	24:V2:539:PHE:C	2.98	0.41
24:V3:161:LEU:HD11	25:W3:17:LEU:HG	2.03	0.41
24:V3:330:ASP:OD2	24:V3:332:ARG:NH2	2.51	0.41
24:V4:161:LEU:HD11	25:W4:17:LEU:HG	2.03	0.41
25:W1:78:LYS:HA	25:W1:96:ALA:HB2	2.03	0.41
26:X3:240:PHE:CD1	26:X3:268:SER:HB3	2.56	0.41
26:X3:403:HIS:O	26:X3:405:ILE:HG23	2.20	0.41
26:X4:60:LYS:C	26:X4:62:GLY:N	2.77	0.41
26:X4:373:GLU:O	26:X4:377:MET:HG3	2.21	0.41
26:X4:480:GLU:O	26:X4:483:PRO:HD2	2.21	0.41
27:Y1:76:SER:HB3	27:Y1:78:ASP:OD1	2.19	0.41
27:Y1:175:PRO:HD3	27:Y1:220:TRP:HB3	2.02	0.41
27:Y2:16:VAL:HG12	27:Y2:63:TRP:CD1	2.55	0.41
27:Y2:131:ASP:O	27:Y2:133:ILE:HG13	2.20	0.41
27:Y3:189:GLU:HA	27:Y3:213:SER:O	2.20	0.41
28:Z3:561:GLN:HG2	30:b3:235:LEU:C	2.42	0.41
28:Z4:410:ASN:N	30:b4:251:ILE:HD11	2.33	0.41
29:a2:365:CYS:SG	29:a2:373:TYR:HB2	2.61	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
30:b3:191:GLN:O	30:b3:201:ILE:HG22	2.21	0.41
1:A1:773:PHE:CZ	1:A1:818:LEU:HD12	2.48	0.41
1:A1:1054:SER:OG	6:D1:809:ALA:HB2	2.17	0.41
1:A1:1203:TYR:CD2	2:A2:730:THR:CB	3.04	0.41
1:A1:1222:ALA:C	2:A2:645:PHE:CE1	2.99	0.41
1:A1:1399:ARG:NE	2:A2:888:GLN:HG3	2.34	0.41
2:A2:192:VAL:HG13	2:A2:253:GLY:HA3	2.03	0.41
2:A2:868:GLN:NE2	6:D1:609:ILE:N	2.38	0.41
2:A2:868:GLN:C	6:D1:598:ILE:CD1	2.93	0.41
2:A2:870:HIS:HB3	6:D1:548:LEU:CD2	2.51	0.41
2:A2:965:LYS:HE3	6:D1:195:LYS:O	2.20	0.41
2:A2:965:LYS:CD	6:D1:196:ILE:O	2.69	0.41
2:A2:1148:ARG:HB3	3:A5:172:PRO:HB2	2.03	0.41
2:A2:1153:LEU:HD23	3:A5:173:ASN:HA	1.71	0.41
1:A3:1021:LEU:CA	6:D3:816:VAL:CG1	2.89	0.41
1:A3:1242:THR:HG22	1:A3:1245:ASP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:551:GLN:O	2:A4:574:ARG:NH2	2.54	0.41
2:A4:989:MSE:CB	6:D3:240:ASP:HA	2.51	0.41
2:A4:1126:VAL:CG2	3:A6:139:ASN:H	2.34	0.41
2:A4:1138:GLU:N	3:A6:138:LEU:HD11	2.31	0.41
3:A5:222:ALA:CA	5:C2:739:MET:CA	2.97	0.41
3:A5:773:PHE:CZ	3:A5:818:LEU:HD12	2.48	0.41
3:A5:906:ILE:CG2	3:A5:965:LYS:HG2	2.51	0.41
3:A5:919:LEU:HB3	11:I5:61:LYS:HZ3	1.85	0.41
3:A5:1001:GLU:HG2	11:I5:65:LYS:HB2	2.02	0.41
3:A5:1026:PRO:CD	11:I5:66:LEU:CG	2.98	0.41
3:A5:1392:ARG:NH1	28:Z2:866:GLU:CB	2.83	0.41
3:A5:1405:LEU:H	28:Z2:918:PHE:N	1.77	0.41
3:A6:220:VAL:HG11	5:C4:739:MET:HB3	2.03	0.41
3:A6:234:LEU:N	5:C4:737:LYS:CA	2.83	0.41
3:A6:1151:THR:CA	5:C6:733:LEU:HD13	2.41	0.41
3:A6:1323:VAL:CG1	28:Z4:912:ASP:CB	2.97	0.41
3:A6:1351:MSE:SE	28:Z4:917:ASP:N	3.04	0.41
3:A6:1369:ILE:HA	28:Z4:826:TYR:N	2.34	0.41
6:D3:647:SER:HB3	6:D3:648:PRO:HD3	2.03	0.41
6:D4:647:SER:HB3	6:D4:648:PRO:HD3	2.03	0.41
6:D6:649:VAL:O	6:D6:649:VAL:CG1	2.68	0.41
6:D7:647:SER:HB3	6:D7:648:PRO:HD3	2.03	0.41
8:F1:638:TRP:NE1	8:F1:725:SER:O	2.44	0.41
8:F2:137:ASN:HA	17:O4:237:PRO:HG3	2.03	0.41
8:F2:1544:ALA:N	8:F2:1545:PRO:CD	2.83	0.41
8:F2:1669:GLU:HG2	8:F2:1670:ASN:N	2.36	0.41
9:G1:257:THR:OG1	17:O2:250:LEU:CA	2.68	0.41
11:I1:841:PHE:HB3	15:M1:588:MET:CG	2.50	0.41
11:I1:923:GLY:N	15:M1:592:LEU:H	2.06	0.41
11:I1:959:SER:HA	16:N1:395:GLU:CG	2.47	0.41
11:I1:980:ILE:O	15:M1:618:GLN:N	2.54	0.41
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD13	2.27	0.41
11:I1:1605:LEU:C	11:I1:1605:LEU:HD12	2.46	0.41
11:I1:1607:GLN:HG3	11:I2:1739:GLU:HG2	1.20	0.41
11:I1:1663:LYS:CE	11:I2:1663:LYS:HE2	2.51	0.41
11:I1:1664:PHE:CZ	11:I2:1669:ARG:C	2.79	0.41
11:I2:880:MET:CB	17:O3:251:ILE:N	2.83	0.41
11:I2:891:LEU:HG	16:N3:393:ILE:HD13	2.03	0.41
11:I2:952:LEU:O	16:N3:403:VAL:CG2	2.64	0.41
11:I2:995:SER:C	17:O3:267:ALA:CB	2.85	0.41
11:I2:1015:TYR:HA	16:N3:413:VAL:HA	1.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1015:TYR:CA	16:N3:412:ASN:OD1	2.66	0.41
11:I2:1020:ALA:CB	16:N3:407:ALA:HA	2.43	0.41
11:I2:1045:PHE:HA	17:O3:280:GLU:CA	2.49	0.41
11:I2:1046:HIS:CB	17:O3:280:GLU:CB	2.97	0.41
11:I2:1049:LEU:HD13	20:R3:146:LEU:CB	2.46	0.41
11:I2:1114:VAL:CG1	16:N3:432:TYR:HA	2.42	0.41
11:I2:1218:ASP:O	11:I2:1221:ASN:ND2	2.49	0.41
11:I2:1605:LEU:HD12	11:I2:1605:LEU:C	2.46	0.41
11:I3:892:HIS:C	11:I3:893:LEU:HD12	2.45	0.41
11:I4:1077:LEU:HD23	11:I4:1077:LEU:C	2.46	0.41
11:I5:72:GLU:OE1	11:I5:72:GLU:N	2.52	0.41
11:I5:1077:LEU:HD23	11:I5:1077:LEU:C	2.46	0.41
11:I5:1182:GLN:NE2	12:J5:245:GLU:CB	2.79	0.41
15:M3:614:ASP:HB2	15:M3:615:PRO:HD2	2.03	0.41
17:O2:98:TYR:CD1	17:O2:138:LEU:HA	2.56	0.41
21:S1:931:ALA:HA	21:S1:935:LEU:HB2	2.03	0.41
21:S1:997:GLU:O	21:S1:1000:ARG:HB2	2.21	0.41
21:S1:1055:LEU:HD22	21:S1:1055:LEU:N	2.36	0.41
21:S2:209:TYR:HA	21:S2:224:SER:HA	2.03	0.41
21:S2:231:ARG:O	21:S2:242:GLN:HA	2.21	0.41
21:S2:277:VAL:HB	21:S2:286:PHE:CZ	2.54	0.41
21:S2:693:VAL:C	21:S2:695:GLN:N	2.79	0.41
21:S3:443:VAL:CG1	21:S3:445:ASN:OD1	2.69	0.41
21:S3:948:LYS:HE3	21:S3:948:LYS:HB2	1.72	0.41
21:S3:953:LEU:HD13	21:S3:973:LEU:HB3	2.03	0.41
21:S3:1003:LEU:O	21:S3:1006:GLU:HB3	2.20	0.41
21:S3:1058:ILE:O	21:S3:1059:ASP:CB	2.58	0.41
21:S4:209:TYR:HA	21:S4:224:SER:HA	2.03	0.41
21:S4:443:VAL:CG1	21:S4:445:ASN:OD1	2.69	0.41
21:S4:997:GLU:O	21:S4:1000:ARG:HB2	2.21	0.41
22:T1:694:ALA:O	22:T1:698:LYS:HE3	2.21	0.41
22:T1:781:THR:O	22:T1:785:LYS:HG3	2.20	0.41
22:T1:829:MET:HE3	22:T1:846:MET:HA	2.02	0.41
22:T3:760:PHE:CD1	22:T3:864:ILE:HD11	2.55	0.41
22:T3:812:ASP:O	22:T3:816:LYS:HG2	2.21	0.41
22:T3:862:HIS:CE1	22:T3:903:LYS:HB3	2.56	0.41
22:T4:812:ASP:O	22:T4:816:LYS:HG2	2.21	0.41
23:U1:13:THR:O	23:U1:17:ASP:HB2	2.21	0.41
23:U1:146:ASN:HB2	23:U1:173:ASP:CG	2.46	0.41
23:U2:104:LEU:HG	23:U2:224:ASP:HB3	2.02	0.41
23:U2:146:ASN:HB2	23:U2:173:ASP:CG	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U2:242:LEU:O	23:U2:243:TRP:C	2.63	0.41
23:U2:359:ILE:HD13	23:U2:389:VAL:HG13	2.02	0.41
24:V1:373:LEU:HB3	24:V1:376:LEU:HD12	2.02	0.41
24:V2:155:SER:HB3	24:V2:159:MET:H	1.84	0.41
24:V2:162:THR:HG22	24:V2:163:LYS:N	2.35	0.41
24:V2:440:ARG:HB3	25:W2:285:LEU:HD22	2.02	0.41
25:W1:48:THR:O	25:W1:49:LEU:HD23	2.21	0.41
25:W1:253:PHE:CD1	25:W1:257:LEU:HD11	2.56	0.41
25:W2:14:ASP:OD1	25:W2:15:ALA:N	2.54	0.41
25:W2:63:HIS:HD2	25:W2:65:LYS:H	1.68	0.41
25:W2:217:LEU:HD13	25:W2:218:LEU:N	2.36	0.41
25:W4:9:ASN:HD22	25:W4:9:ASN:HA	1.48	0.41
26:X1:531:LEU:HB3	26:X1:534:ILE:CG1	2.51	0.41
26:X2:105:SER:HB2	26:X2:481:LEU:HD21	2.03	0.41
26:X2:396:ASP:OD1	26:X2:401:LYS:HE3	2.20	0.41
26:X3:57:PRO:HB2	26:X3:82:ILE:HD11	2.03	0.41
26:X3:265:ILE:C	26:X3:267:ARG:N	2.77	0.41
27:Y1:77:TYR:HD1	27:Y1:110:SER:HB3	1.86	0.41
27:Y1:313:ASN:HD22	27:Y1:313:ASN:HA	1.61	0.41
27:Y4:192:ILE:HG22	27:Y4:207:LYS:HG2	2.02	0.41
28:Z1:72:PHE:HD1	28:Z1:72:PHE:HA	1.75	0.41
28:Z1:521:SER:HB2	30:b1:238:ASN:O	2.20	0.41
28:Z1:526:ARG:HB2	30:b1:208:ASN:H	1.85	0.41
28:Z1:533:LEU:CB	30:b1:164:CYS:SG	3.08	0.41
28:Z2:535:ILE:CA	30:b2:182:PRO:HB3	2.50	0.41
28:Z3:285:ASN:OD1	28:Z3:285:ASN:N	2.48	0.41
28:Z3:438:GLU:HB2	30:b3:333:HIS:CE1	2.48	0.41
28:Z4:400:LYS:O	30:b4:252:ALA:HB2	2.12	0.41
28:Z4:540:LEU:HB2	30:b4:182:PRO:HB3	1.88	0.41
29:a2:8:PHE:CE1	29:a2:371:ALA:HB2	2.55	0.41
29:a3:8:PHE:CE1	29:a3:371:ALA:HB2	2.55	0.41
29:a4:8:PHE:CE1	29:a4:371:ALA:HB2	2.56	0.41
30:b2:384:ARG:HE	30:b2:389:THR:HG21	1.86	0.41
30:b3:216:LEU:HD12	30:b3:216:LEU:HA	1.78	0.41
30:b3:237:LEU:HD13	30:b3:280:TRP:CD2	2.55	0.41
30:b4:384:ARG:HE	30:b4:389:THR:HG21	1.86	0.41
2:A2:227:SER:HB3	6:D1:711:PHE:C	2.44	0.41
2:A2:871:ASN:H	6:D1:567:LEU:C	2.15	0.41
2:A2:876:ARG:HG2	6:D1:562:GLY:O	2.20	0.41
2:A2:907:SER:O	6:D1:601:PHE:CB	2.63	0.41
2:A2:1114:ILE:CD1	5:C2:731:LYS:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:872:ALA:CB	6:D3:565:MET:HB3	2.49	0.41
2:A4:1154:PHE:CB	5:C4:733:LEU:HD13	2.50	0.41
3:A5:1053:ARG:NH1	11:I5:99:ARG:HG3	2.36	0.41
3:A5:1365:VAL:HG13	28:Z2:841:ALA:HB2	1.95	0.41
3:A6:220:VAL:HG13	5:C4:739:MET:HA	1.99	0.41
3:A6:1155:ASN:ND2	5:C6:736:ASN:H	2.18	0.41
6:D5:472:PHE:O	6:D5:476:VAL:HG23	2.21	0.41
6:D7:606:LYS:N	6:D7:607:PRO:HD2	2.36	0.41
8:F1:1167:GLU:OE1	8:F1:1167:GLU:N	2.54	0.41
8:F1:1211:ARG:O	8:F1:1215:GLU:N	2.54	0.41
8:F1:1392:LEU:CD2	17:O2:266:GLN:NE2	2.65	0.41
8:F2:1167:GLU:N	8:F2:1167:GLU:OE1	2.54	0.41
8:F2:1351:VAL:O	8:F2:1352:LYS:HG2	2.21	0.41
8:F2:1836:GLU:O	8:F2:1839:VAL:HG12	2.20	0.41
11:I1:895:ARG:HA	17:O1:235:ASN:C	2.45	0.41
11:I1:980:ILE:O	15:M1:618:GLN:HG3	2.20	0.41
11:I1:991:THR:H	15:M1:608:LYS:HE3	1.30	0.41
11:I2:893:LEU:O	17:O3:236:ASP:OD1	2.39	0.41
11:I2:951:LYS:CG	16:N3:403:VAL:HB	2.51	0.41
11:I2:1035:GLN:CG	15:M3:622:VAL:O	2.68	0.41
11:I3:1605:LEU:HD12	11:I3:1605:LEU:C	2.46	0.41
11:I3:1644:ARG:NH2	11:I3:1721:GLU:OE1	2.54	0.41
11:I4:1275:SER:O	26:X3:522:MET:HG3	1.97	0.41
11:I5:1122:ASN:O	11:I5:1126:HIS:ND1	2.42	0.41
11:I5:1644:ARG:NH2	11:I5:1721:GLU:OE1	2.54	0.41
17:O1:98:TYR:CD1	17:O1:138:LEU:HA	2.56	0.41
21:S1:231:ARG:O	21:S1:242:GLN:HA	2.21	0.41
21:S1:531:ARG:O	21:S1:535:GLY:O	2.38	0.41
21:S1:997:GLU:OE2	21:S1:997:GLU:HA	2.20	0.41
21:S2:443:VAL:CG1	21:S2:445:ASN:OD1	2.69	0.41
21:S2:953:LEU:HD13	21:S2:973:LEU:HB3	2.03	0.41
21:S2:1036:ILE:HG13	21:S2:1048:PHE:HE2	1.86	0.41
21:S2:1074:LEU:CD1	21:S2:1122:VAL:HG13	2.48	0.41
21:S3:408:THR:HG23	21:S3:410:PRO:HD3	2.03	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:T1:785:LYS:O	22:T1:789:GLU:HG3	2.21	0.41
22:T2:812:ASP:O	22:T2:816:LYS:HG2	2.21	0.41
22:T3:785:LYS:O	22:T3:789:GLU:HG3	2.21	0.41
23:U1:156:CYS:HB2	24:V1:351:ILE:HG12	2.03	0.41
23:U3:242:LEU:O	23:U3:243:TRP:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:468:LYS:HD2	24:V3:499:ASN:HB3	2.03	0.41
25:W1:63:HIS:HD2	25:W1:65:LYS:H	1.68	0.41
25:W2:227:GLN:C	25:W2:229:ARG:H	2.29	0.41
25:W4:59:VAL:HB	25:W4:70:LEU:HD11	2.03	0.41
26:X2:57:PRO:HB2	26:X2:82:ILE:HD11	2.03	0.41
26:X2:291:LEU:HD13	26:X2:310:VAL:HG22	2.03	0.41
26:X3:246:TRP:CD1	26:X3:331:TYR:CD2	3.09	0.41
26:X3:334:ASP:HB3	26:X3:349:TYR:HE2	1.86	0.41
26:X4:97:ARG:HB3	26:X4:97:ARG:HH11	1.86	0.41
27:Y3:131:ASP:O	27:Y3:133:ILE:HG13	2.20	0.41
28:Z1:457:PHE:HA	28:Z1:477:GLN:HB2	2.04	0.41
28:Z2:524:VAL:CG1	30:b2:236:THR:CA	2.84	0.41
28:Z3:555:LYS:CG	30:b3:233:TRP:HA	2.50	0.41
28:Z4:561:GLN:NE2	30:b4:235:LEU:HD23	2.36	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:b2:8:TYR:CD2	30:b2:58:LEU:HB2	2.56	0.41
30:b2:237:LEU:HD13	30:b2:280:TRP:CD2	2.55	0.41
30:b4:170:ARG:HD3	30:b4:214:TRP:HZ3	1.85	0.41
1:A1:864:ARG:NH1	6:D3:299:ILE:HG21	2.36	0.40
2:A2:225:THR:O	6:D1:708:ASP:HB3	2.21	0.40
2:A2:404:LEU:HB3	2:A2:429:LEU:HD13	2.03	0.40
2:A2:867:GLU:CG	6:D1:605:THR:HB	2.50	0.40
2:A2:1125:LEU:C	3:A5:137:HIS:CG	2.92	0.40
2:A2:1136:LYS:NZ	3:A5:140:ALA:N	2.69	0.40
2:A2:1160:GLN:CG	3:A5:175:GLU:O	2.69	0.40
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG2	2.50	0.40
1:A3:1332:ARG:CD	6:D3:636:ASP:CG	2.94	0.40
2:A4:781:ARG:HE	6:D3:673:ARG:NH1	2.15	0.40
2:A4:827:ILE:HD11	2:A4:857:LYS:C	2.46	0.40
2:A4:983:LEU:CD1	6:D3:497:PHE:CZ	3.04	0.40
3:A6:1017:THR:HA	3:A6:1020:ILE:HG22	2.02	0.40
3:A6:1316:VAL:HG11	28:Z4:870:ILE:C	2.06	0.40
3:A6:1360:GLY:C	28:Z4:872:TYR:O	2.64	0.40
3:A6:1371:GLY:C	28:Z4:822:SER:H	2.18	0.40
3:A6:1395:LYS:HB3	28:Z4:890:ARG:HA	2.01	0.40
4:B2:354:LEU:C	4:B2:354:LEU:HD12	2.45	0.40
6:D3:190:TYR:OH	6:D3:600:LYS:HE2	2.21	0.40
6:D4:190:TYR:OH	6:D4:600:LYS:HE2	2.21	0.40
6:D4:606:LYS:N	6:D4:607:PRO:HD2	2.36	0.40
6:D7:649:VAL:O	6:D7:649:VAL:CG1	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:462:SER:N	8:F1:463:PRO:CD	2.84	0.40
8:F1:1137:GLN:H	17:O2:245:GLU:HA	1.84	0.40
8:F1:1261:TYR:O	17:O2:262:ASP:CB	2.69	0.40
8:F1:1262:HIS:NE2	17:O2:259:ASP:CG	2.79	0.40
8:F1:1471:PHE:CG	8:F1:1472:GLY:N	2.89	0.40
9:G2:254:ASN:C	17:O4:262:ASP:OD2	2.61	0.40
11:I1:850:ILE:HG12	15:M1:594:LYS:CG	2.51	0.40
11:I1:984:GLU:HA	15:M1:613:ASP:C	2.46	0.40
11:I1:998:ALA:CB	17:O1:267:ALA:CB	2.94	0.40
11:I1:1051:LYS:CA	17:O1:286:ILE:HG22	2.49	0.40
11:I1:1064:LYS:O	17:O1:274:GLY:HA2	2.21	0.40
11:I2:629:VAL:HG23	11:I2:630:ASP:N	2.37	0.40
11:I2:887:GLN:HB3	17:O3:243:LEU:HD23	2.01	0.40
11:I2:928:LEU:HD13	20:R3:151:LYS:CE	2.32	0.40
11:I2:948:ALA:N	17:O3:256:TYR:CG	2.75	0.40
11:I2:976:ARG:HA	20:R3:146:LEU:HA	1.66	0.40
11:I2:980:ILE:HA	15:M3:617:THR:HG23	2.02	0.40
11:I4:1269:ARG:O	26:X3:528:GLU:CB	2.32	0.40
11:I4:1644:ARG:NH2	11:I4:1721:GLU:OE1	2.54	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
17:O4:142:PHE:O	17:O4:145:ILE:HG22	2.22	0.40
21:S1:1021:SER:C	21:S1:1023:MET:H	2.28	0.40
21:S4:321:THR:HG22	21:S4:338:VAL:HG11	2.02	0.40
22:T1:776:LEU:C	22:T1:778:PRO:HD3	2.46	0.40
22:T1:812:ASP:O	22:T1:816:LYS:HG2	2.21	0.40
22:T1:822:LEU:O	22:T1:823:PHE:C	2.64	0.40
22:T2:862:HIS:CE1	22:T2:903:LYS:HB3	2.56	0.40
22:T4:822:LEU:O	22:T4:823:PHE:C	2.64	0.40
22:T4:900:LEU:O	22:T4:904:LEU:HG	2.21	0.40
23:U1:425:LEU:HD23	23:U1:425:LEU:HA	1.90	0.40
23:U2:13:THR:O	23:U2:17:ASP:HB2	2.21	0.40
23:U3:104:LEU:HG	23:U3:224:ASP:HB3	2.02	0.40
23:U4:9:THR:O	23:U4:9:THR:HG22	2.21	0.40
23:U4:359:ILE:HD13	23:U4:389:VAL:HG13	2.02	0.40
24:V2:161:LEU:HD11	25:W2:17:LEU:HG	2.03	0.40
24:V3:539:PHE:CD1	24:V3:539:PHE:C	2.98	0.40
25:W1:23:ARG:NH1	25:W1:84:GLU:OE1	2.54	0.40
25:W2:233:ILE:HD11	25:W2:248:LEU:HD13	2.03	0.40
25:W4:225:VAL:CG2	25:W4:271:LEU:HD22	2.51	0.40
26:X1:480:GLU:O	26:X1:483:PRO:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:427:LYS:HB3	26:X2:429:LEU:HG	2.03	0.40
26:X2:434:PHE:CD2	26:X2:458:ARG:HA	2.56	0.40
26:X3:105:SER:HB2	26:X3:481:LEU:HD21	2.03	0.40
26:X3:488:LEU:HD12	26:X3:488:LEU:HA	1.93	0.40
26:X4:334:ASP:HB3	26:X4:349:TYR:HE2	1.86	0.40
26:X4:434:PHE:CD2	26:X4:458:ARG:HA	2.56	0.40
26:X4:511:TYR:HE2	26:X4:518:ASP:HB3	1.87	0.40
27:Y2:86:GLU:HB2	27:Y2:98:TRP:CZ2	2.56	0.40
27:Y3:16:VAL:HG12	27:Y3:63:TRP:CD1	2.55	0.40
28:Z4:165:PHE:HB3	28:Z4:177:PHE:HB2	2.04	0.40
28:Z4:558:LEU:HA	30:b4:236:THR:CB	2.51	0.40
29:a1:8:PHE:CE1	29:a1:371:ALA:HB2	2.55	0.40
30:b1:216:LEU:HD12	30:b1:216:LEU:HA	1.78	0.40
30:b2:195:SER:OG	30:b2:263:SER:O	2.26	0.40
30:b3:195:SER:OG	30:b3:263:SER:O	2.26	0.40
2:A2:827:ILE:HD11	2:A2:857:LYS:C	2.46	0.40
2:A2:870:HIS:NE2	6:D1:551:PHE:CB	2.53	0.40
2:A2:872:ALA:HB2	6:D1:569:CYS:SG	2.61	0.40
2:A2:980:ARG:NE	6:D1:525:ARG:CD	2.82	0.40
2:A2:983:LEU:HD21	6:D1:554:LEU:HA	2.04	0.40
2:A2:1150:LEU:CD1	5:C2:731:LYS:HG3	2.47	0.40
2:A2:1164:TYR:CE1	4:B5:342:ARG:CG	3.03	0.40
1:A3:1223:GLU:OE1	2:A4:761:GLN:NE2	2.55	0.40
2:A4:192:VAL:HG13	2:A4:253:GLY:HA3	2.03	0.40
2:A4:1018:ASP:OD1	2:A4:1018:ASP:N	2.54	0.40
2:A4:1135:ARG:H	3:A6:145:THR:C	2.30	0.40
3:A5:166:LEU:HD11	5:C2:744:PHE:H	1.09	0.40
3:A5:1372:THR:CB	28:Z2:828:LEU:CA	2.95	0.40
3:A6:166:LEU:HB3	5:C4:740:ARG:HA	1.79	0.40
3:A6:1139:ILE:HD11	5:C6:743:LEU:HD11	2.03	0.40
3:A6:1312:ARG:H	28:Z4:830:LEU:HA	1.82	0.40
3:A6:1373:GLY:C	28:Z4:823:ALA:HB2	2.47	0.40
3:A6:1405:LEU:N	28:Z4:923:LEU:H	2.19	0.40
6:D1:649:VAL:O	6:D1:649:VAL:CG1	2.68	0.40
6:D5:570:VAL:O	6:D5:574:VAL:HG23	2.20	0.40
6:D5:782:ASP:OD1	6:D5:783:SER:N	2.54	0.40
6:D6:606:LYS:N	6:D6:607:PRO:HD2	2.36	0.40
6:D7:481:ARG:CG	11:I3:183:LYS:HE2	2.46	0.40
11:I1:629:VAL:HG23	11:I1:630:ASP:N	2.37	0.40
11:I1:911:PRO:HA	15:M1:584:GLN:HE22	1.83	0.40
11:I1:946:THR:CA	17:O1:257:ALA:CA	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:950:LEU:HD11	16:N1:410:MET:HB2	1.96	0.40
11:I2:874:LEU:C	17:O3:251:ILE:O	2.62	0.40
11:I2:953:LEU:CD2	15:M3:603:SER:OG	2.37	0.40
11:I2:1000:ILE:HA	16:N3:413:VAL:HG11	2.03	0.40
11:I2:1004:LEU:C	11:I2:1004:LEU:HD12	2.46	0.40
11:I2:1045:PHE:CE1	16:N3:434:LEU:HB3	2.37	0.40
11:I3:1267:LEU:CD2	26:X1:529:TRP:CZ2	3.03	0.40
11:I4:1004:LEU:C	11:I4:1004:LEU:HD12	2.46	0.40
11:I4:1271:GLU:HA	26:X3:525:ILE:O	2.20	0.40
11:I4:1274:HIS:NE2	26:X3:531:LEU:CB	2.85	0.40
11:I4:1371:LEU:HD23	11:I4:1371:LEU:C	2.46	0.40
15:M4:614:ASP:HB2	15:M4:615:PRO:HD2	2.03	0.40
17:O3:98:TYR:CD1	17:O3:138:LEU:HA	2.56	0.40
21:S2:133:ILE:HG21	21:S2:133:ILE:HD13	1.69	0.40
21:S3:231:ARG:O	21:S3:242:GLN:HA	2.21	0.40
21:S3:980:ALA:HB2	22:T3:897:LEU:HB3	2.02	0.40
21:S4:147:SER:OG	21:S4:181:GLU:OE2	2.39	0.40
21:S4:967:LYS:HD2	21:S4:1025:VAL:HG21	2.04	0.40
22:T1:760:PHE:CD1	22:T1:864:ILE:HD11	2.55	0.40
22:T1:862:HIS:CE1	22:T1:903:LYS:HB3	2.56	0.40
22:T1:900:LEU:O	22:T1:904:LEU:HG	2.21	0.40
22:T2:760:PHE:CD1	22:T2:864:ILE:HD11	2.55	0.40
22:T3:829:MET:HE3	22:T3:846:MET:HA	2.02	0.40
22:T4:785:LYS:O	22:T4:789:GLU:HG3	2.21	0.40
23:U1:104:LEU:HG	23:U1:224:ASP:HB3	2.02	0.40
23:U2:237:ILE:C	23:U2:237:ILE:HD12	2.47	0.40
23:U3:156:CYS:HB2	24:V3:351:ILE:HG12	2.03	0.40
23:U4:341:HIS:HA	23:U4:342:PRO:HD3	1.89	0.40
24:V1:153:LYS:HA	25:W1:261:SER:HB2	2.01	0.40
24:V1:526:HIS:O	24:V1:528:LEU:N	2.55	0.40
24:V4:153:LYS:HG2	25:W4:261:SER:HB2	2.03	0.40
25:W4:14:ASP:OD1	25:W4:15:ALA:N	2.54	0.40
25:W4:181:LEU:HD22	25:W4:199:THR:CG2	2.52	0.40
25:W4:209:ASP:OD2	25:W4:259:ARG:HD3	2.22	0.40
25:W4:217:LEU:HD13	25:W4:218:LEU:N	2.36	0.40
25:W4:233:ILE:HD11	25:W4:248:LEU:HD13	2.03	0.40
26:X1:51:MET:HE2	26:X1:91:TYR:CG	2.57	0.40
26:X1:227:VAL:C	26:X1:229:SER:N	2.79	0.40
26:X1:240:PHE:CD1	26:X1:268:SER:HB3	2.56	0.40
26:X1:246:TRP:CD1	26:X1:331:TYR:CD2	3.09	0.40
26:X2:168:ARG:HD3	26:X2:170:ASN:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:373:GLU:O	26:X2:377:MET:HG3	2.21	0.40
26:X3:97:ARG:HB3	26:X3:97:ARG:HH11	1.86	0.40
26:X3:352:THR:OG1	26:X3:355:GLU:HG3	2.21	0.40
26:X3:396:ASP:OD1	26:X3:401:LYS:HE3	2.20	0.40
26:X3:427:LYS:HB3	26:X3:429:LEU:HG	2.03	0.40
26:X4:240:PHE:CD1	26:X4:268:SER:HB3	2.56	0.40
27:Y2:77:TYR:HD1	27:Y2:110:SER:HB3	1.86	0.40
27:Y3:86:GLU:HB2	27:Y3:98:TRP:CZ2	2.56	0.40
28:Z1:153:GLN:OE1	28:Z1:193:HIS:HA	2.20	0.40
28:Z1:406:ARG:HG3	30:b1:252:ALA:HB2	1.88	0.40
28:Z2:287:LEU:O	28:Z2:300:MET:HA	2.20	0.40
28:Z2:554:PHE:CD2	30:b2:234:LEU:N	2.82	0.40
28:Z3:457:PHE:HA	28:Z3:477:GLN:HB2	2.03	0.40
28:Z4:521:SER:HB2	30:b4:238:ASN:O	2.20	0.40
28:Z4:554:PHE:CE2	30:b4:234:LEU:N	2.89	0.40
30:b4:143:ALA:HB3	30:b4:192:PHE:CD2	2.57	0.40
1:A1:1225:PRO:HB3	2:A2:722:ASN:O	2.22	0.40
1:A1:1392:ARG:C	2:A2:851:ASP:OD1	2.64	0.40
2:A2:867:GLU:CG	6:D1:605:THR:CB	2.99	0.40
2:A2:879:LEU:CG	6:D1:567:LEU:CD1	2.73	0.40
2:A2:1151:THR:HA	5:C2:733:LEU:CB	2.51	0.40
1:A3:1223:GLU:OE1	2:A4:757:LEU:HB3	2.21	0.40
2:A4:869:ALA:O	2:A4:870:HIS:HB3	2.21	0.40
2:A4:1125:LEU:HD11	3:A6:133:LYS:HB3	2.02	0.40
3:A5:233:THR:HG23	5:C2:737:LYS:HB2	1.81	0.40
3:A5:1029:ILE:C	11:I5:69:GLY:C	2.88	0.40
3:A5:1033:GLN:OE1	11:I5:71:GLU:CA	2.47	0.40
3:A5:1365:VAL:HG13	28:Z2:832:PHE:CB	2.51	0.40
3:A5:1368:GLN:HB2	28:Z2:841:ALA:O	2.21	0.40
3:A6:906:ILE:CG2	3:A6:965:LYS:HG2	2.51	0.40
3:A6:1366:LEU:HD12	28:Z4:869:HIS:CA	2.49	0.40
3:A6:1372:THR:OG1	28:Z4:821:HIS:O	2.39	0.40
3:A6:1377:ARG:HD3	28:Z4:815:PHE:CB	2.51	0.40
3:A6:1388:ALA:HA	28:Z4:865:LYS:C	2.46	0.40
6:D2:606:LYS:N	6:D2:607:PRO:HD2	2.36	0.40
6:D5:536:THR:O	6:D5:540:GLU:HB3	2.22	0.40
6:D5:647:SER:HB3	6:D5:648:PRO:HD3	2.03	0.40
6:D6:570:VAL:O	6:D6:574:VAL:HG23	2.20	0.40
11:I1:853:ILE:HG23	17:O1:254:ARG:HG3	2.00	0.40
11:I1:886:LEU:HB3	17:O1:242:ARG:HG2	1.21	0.40
11:I1:899:LEU:HD11	17:O1:230:ILE:C	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:981:VAL:N	15:M1:621:ARG:HH11	2.19	0.40
11:I1:1021:ILE:CA	16:N1:406:HIS:CA	2.96	0.40
11:I1:1036:PRO:N	15:M1:623:LEU:C	2.73	0.40
11:I1:1050:SER:HB2	17:O1:290:TYR:HB3	1.20	0.40
11:I1:1103:LEU:HD21	20:R1:175:GLN:HG2	1.99	0.40
11:I1:1735:PHE:HD2	11:I2:1606:GLU:O	1.98	0.40
11:I2:924:ILE:CA	15:M3:597:LYS:HB2	2.27	0.40
11:I2:981:VAL:CG1	20:R3:151:LYS:HG3	2.51	0.40
11:I2:1068:HIS:C	16:N3:429:GLU:N	2.72	0.40
11:I2:1103:LEU:CD2	20:R3:174:ARG:HB3	2.48	0.40
11:I2:1370:VAL:CG2	12:J2:259:THR:HG21	2.41	0.40
11:I3:1077:LEU:HD23	11:I3:1077:LEU:C	2.46	0.40
11:I3:1270:LYS:HZ3	26:X1:530:ARG:CG	2.24	0.40
11:I3:1371:LEU:HD23	11:I3:1371:LEU:C	2.46	0.40
11:I4:1279:THR:H	26:X3:520:GLU:HA	1.20	0.40
11:I5:659:LYS:HE2	11:I5:664:LEU:HD21	2.02	0.40
16:N3:308:ILE:O	16:N3:312:ARG:N	2.53	0.40
17:O3:151:LEU:HD21	18:P3:325:ILE:HD12	1.78	0.40
21:S1:147:SER:OG	21:S1:181:GLU:OE2	2.39	0.40
21:S1:443:VAL:CG1	21:S1:445:ASN:OD1	2.69	0.40
21:S1:967:LYS:HD2	21:S1:1025:VAL:HG21	2.04	0.40
21:S3:1104:ILE:H	21:S3:1104:ILE:HG12	1.71	0.40
21:S4:953:LEU:HD13	21:S4:973:LEU:HB3	2.03	0.40
22:T3:694:ALA:O	22:T3:698:LYS:HE3	2.21	0.40
22:T3:817:MET:HE1	22:T3:860:LEU:HB2	2.03	0.40
23:U1:7:TYR:O	23:U1:9:THR:N	2.54	0.40
23:U3:237:ILE:C	23:U3:237:ILE:HD12	2.47	0.40
23:U3:363:VAL:HG11	23:U3:408:ASP:OD1	2.21	0.40
24:V2:526:HIS:O	24:V2:528:LEU:N	2.55	0.40
24:V3:526:HIS:O	24:V3:528:LEU:N	2.55	0.40
24:V4:330:ASP:OD2	24:V4:332:ARG:NH2	2.51	0.40
25:W1:227:GLN:C	25:W1:229:ARG:H	2.29	0.40
25:W2:48:THR:O	25:W2:49:LEU:HD23	2.21	0.40
25:W2:181:LEU:HD22	25:W2:199:THR:CG2	2.52	0.40
25:W2:253:PHE:CD1	25:W2:257:LEU:HD11	2.56	0.40
25:W3:59:VAL:HB	25:W3:70:LEU:HD11	2.03	0.40
25:W3:233:ILE:HD11	25:W3:248:LEU:HD13	2.03	0.40
25:W3:253:PHE:CD1	25:W3:257:LEU:HD11	2.56	0.40
25:W4:223:ALA:HB2	25:W4:262:TRP:CZ2	2.55	0.40
26:X4:105:SER:HB2	26:X4:481:LEU:HD21	2.03	0.40
26:X4:296:PRO:HG2	26:X4:303:PHE:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:427:LYS:HB3	26:X4:429:LEU:HG	2.04	0.40
27:Y2:136:LEU:HD12	27:Y2:196:ARG:HH12	1.87	0.40
27:Y4:77:TYR:HD1	27:Y4:110:SER:HB3	1.86	0.40
27:Y4:136:LEU:HD12	27:Y4:196:ARG:HH12	1.87	0.40
28:Z1:454:LYS:O	28:Z1:458:ASN:ND2	2.51	0.40
28:Z2:555:LYS:CG	30:b2:233:TRP:HA	2.50	0.40
28:Z3:554:PHE:CE2	30:b3:234:LEU:N	2.89	0.40
28:Z3:683:SER:OG	28:Z3:686:PHE:HB2	2.22	0.40
30:b2:170:ARG:HD3	30:b2:214:TRP:HZ3	1.85	0.40
1:A1:868:GLN:CA	6:D3:277:ASN:H	2.06	0.40
1:A1:1222:ALA:HA	2:A2:615:LEU:CD1	2.26	0.40
2:A2:869:ALA:O	2:A2:870:HIS:HB3	2.21	0.40
2:A2:874:VAL:HG21	6:D1:611:LYS:CG	2.38	0.40
2:A2:976:LEU:HD12	6:D1:501:LEU:HD13	1.34	0.40
2:A2:986:THR:OG1	6:D1:497:PHE:HZ	1.93	0.40
2:A2:1153:LEU:HA	3:A5:174:PRO:C	2.47	0.40
2:A2:1161:ALA:HB3	3:A5:176:LEU:HB2	1.99	0.40
1:A3:1220:PRO:HG3	2:A4:732:GLN:HE22	1.86	0.40
2:A4:865:ALA:HB2	6:D3:567:LEU:HD13	2.01	0.40
2:A4:982:THR:HB	6:D3:497:PHE:HB3	1.49	0.40
3:A5:998:SER:O	11:I5:63:PRO:HD3	2.20	0.40
3:A5:1394:VAL:O	28:Z2:874:ASN:N	2.51	0.40
3:A6:1355:VAL:HG13	28:Z4:877:ILE:CB	2.51	0.40
3:A6:1388:ALA:O	28:Z4:866:GLU:CA	2.70	0.40
6:D1:190:TYR:OH	6:D1:600:LYS:HE2	2.21	0.40
6:D1:647:SER:HB3	6:D1:648:PRO:HD3	2.03	0.40
6:D2:472:PHE:O	6:D2:476:VAL:HG23	2.21	0.40
6:D2:691:LEU:HD11	6:D2:717:LEU:HD23	2.03	0.40
6:D5:245:ARG:HG3	6:D5:503:LEU:HD21	2.03	0.40
8:F1:1135:ARG:HE	17:O2:249:ARG:CG	2.34	0.40
9:G1:254:ASN:O	15:M2:606:LEU:CA	2.67	0.40
11:I1:916:ALA:CB	15:M1:586:ASP:CG	2.95	0.40
11:I1:920:PHE:CD1	17:O1:243:LEU:HB3	2.57	0.40
11:I1:925:LEU:HG	15:M1:593:ALA:CA	2.45	0.40
11:I1:946:THR:HB	17:O1:260:LEU:HD23	0.75	0.40
11:I1:1004:LEU:C	11:I1:1004:LEU:HD12	2.46	0.40
11:I1:1035:GLN:HG2	15:M1:628:ALA:H	1.85	0.40
11:I1:1035:GLN:CG	15:M1:623:LEU:O	2.39	0.40
11:I1:1043:LEU:N	20:R1:170:LEU:HD11	2.36	0.40
11:I2:873:ILE:CG2	17:O3:254:ARG:HG2	2.46	0.40
11:I2:876:ALA:HB1	17:O3:251:ILE:HG12	1.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:HD13	15:M3:599:ILE:HD13	2.02	0.40
11:I4:659:LYS:HE2	11:I4:664:LEU:HD21	2.02	0.40
11:I4:1279:THR:CB	26:X3:523:LEU:C	2.87	0.40
11:I4:1371:LEU:HD23	11:I4:1371:LEU:O	2.20	0.40
21:S1:948:LYS:O	21:S1:952:THR:HG22	2.22	0.40
21:S1:953:LEU:HD13	21:S1:973:LEU:HB3	2.03	0.40
21:S1:1002:LEU:O	21:S1:1004:HIS:N	2.55	0.40
21:S2:967:LYS:HD2	21:S2:1025:VAL:HG21	2.04	0.40
21:S4:408:THR:HG23	21:S4:410:PRO:HD3	2.03	0.40
21:S4:933:GLU:O	21:S4:935:LEU:N	2.44	0.40
21:S4:997:GLU:OE2	21:S4:997:GLU:HA	2.20	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:T3:900:LEU:O	22:T3:904:LEU:HG	2.21	0.40
23:U1:226:GLN:H	23:U1:226:GLN:CD	2.25	0.40
24:V3:247:TYR:CZ	24:V3:260:LEU:HD13	2.56	0.40
24:V3:292:ILE:HA	24:V3:295:ILE:HD12	2.04	0.40
24:V3:334:ARG:HG2	24:V3:363:SER:O	2.22	0.40
25:W1:140:ILE:HG22	25:W1:141:ILE:N	2.37	0.40
25:W2:74:SER:OG	25:W2:75:TYR:N	2.55	0.40
26:X1:105:SER:HB2	26:X1:481:LEU:HD21	2.04	0.40
26:X1:296:PRO:HG2	26:X1:303:PHE:HA	2.03	0.40
26:X1:373:GLU:O	26:X1:377:MET:HG3	2.21	0.40
26:X4:77:GLN:HE21	26:X4:77:GLN:HB2	1.74	0.40
26:X4:246:TRP:CD1	26:X4:331:TYR:CD2	3.09	0.40
27:Y3:83:LEU:HD13	27:Y3:148:TRP:CE2	2.57	0.40
28:Z2:683:SER:OG	28:Z2:686:PHE:HB2	2.22	0.40
28:Z3:382:VAL:HG21	28:Z3:495:TYR:CD1	2.57	0.40
28:Z3:558:LEU:HA	30:b3:236:THR:CB	2.51	0.40
28:Z4:525:LEU:O	30:b4:208:ASN:ND2	2.25	0.40
30:b3:8:TYR:CD2	30:b3:58:LEU:HB2	2.57	0.40
1:A1:879:LEU:HD21	1:A1:908:LEU:CD1	2.52	0.40
1:A1:1399:ARG:HG2	2:A2:884:ARG:HG2	0.46	0.40
2:A2:827:ILE:HG22	2:A2:863:GLN:HB2	2.03	0.40
2:A2:965:LYS:CE	6:D1:197:VAL:N	2.85	0.40
2:A2:1151:THR:O	5:C2:733:LEU:CD1	2.70	0.40
1:A3:1056:PHE:CZ	6:D3:811:LEU:N	2.89	0.40
1:A3:1182:ILE:HG21	1:A3:1248:ILE:HA	2.04	0.40
2:A4:878:LEU:CD2	6:D3:608:ILE:N	2.85	0.40
2:A4:1338:ALA:HB2	2:A4:1413:SER:HA	2.04	0.40
3:A5:150:PHE:HD2	5:C2:742:ASP:N	2.14	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1415:PHE:N	28:Z2:960:CYS:C	2.79	0.40
3:A6:220:VAL:CG1	5:C4:739:MET:HB3	2.52	0.40
3:A6:220:VAL:CG2	5:C4:738:ASP:O	2.69	0.40
6:D1:691:LEU:HD11	6:D1:717:LEU:HD23	2.03	0.40
6:D3:782:ASP:OD1	6:D3:783:SER:N	2.54	0.40
8:F1:1137:GLN:N	17:O2:245:GLU:HA	2.37	0.40
8:F1:1351:VAL:O	8:F1:1352:LYS:HG2	2.21	0.40
11:I1:797:LEU:CB	17:O1:245:GLU:CG	2.73	0.40
11:I1:840:LEU:CD2	17:O1:244:GLU:CB	2.75	0.40
11:I1:895:ARG:HH22	16:N1:386:MET:HG2	1.40	0.40
11:I1:965:ALA:HB3	20:R1:164:PRO:HA	1.92	0.40
11:I1:1032:THR:HA	15:M1:627:LEU:HD21	1.67	0.40
11:I1:1050:SER:O	17:O1:290:TYR:N	2.24	0.40
11:I1:1056:PRO:N	17:O1:277:GLU:O	2.54	0.40
11:I1:1101:LEU:CD2	16:N1:432:TYR:HE1	2.34	0.40
11:I1:1122:ASN:O	11:I1:1126:HIS:ND1	2.42	0.40
11:I2:900:ARG:CG	17:O3:232:LYS:CD	2.81	0.40
11:I2:938:CYS:HB2	17:O3:261:LYS:NZ	2.37	0.40
11:I2:978:LYS:NZ	20:R3:154:ALA:N	2.70	0.40
11:I2:1042:LEU:HD11	15:M3:607:SER:HB3	2.03	0.40
11:I2:1045:PHE:HB3	15:M3:619:ILE:CD1	2.51	0.40
11:I2:1122:ASN:O	11:I2:1126:HIS:ND1	2.42	0.40
11:I2:1314:LEU:HD23	11:I2:1314:LEU:C	2.47	0.40
11:I3:1004:LEU:HD12	11:I3:1004:LEU:C	2.46	0.40
11:I4:892:HIS:C	11:I4:893:LEU:HD12	2.45	0.40
11:I5:130:LYS:NZ	11:I5:237:GLU:OE1	2.45	0.40
11:I5:1037:THR:OG1	11:I5:1038:ILE:N	2.55	0.40
16:N4:368:ASN:OD1	17:O4:210:ARG:NH2	2.52	0.40
18:P1:278:ASN:HB3	18:P4:322:LYS:HA	1.51	0.40
21:S1:980:ALA:HB2	22:T1:897:LEU:HB3	2.02	0.40
21:S2:321:THR:HG22	21:S2:338:VAL:HG11	2.02	0.40
21:S3:201:VAL:HG11	21:S3:230:ILE:HD13	2.03	0.40
21:S3:967:LYS:HD2	21:S3:1025:VAL:HG21	2.04	0.40
21:S4:931:ALA:HA	21:S4:935:LEU:HB2	2.03	0.40
21:S4:946:LEU:HD23	21:S4:946:LEU:HA	1.83	0.40
21:S4:1058:ILE:HG22	21:S4:1059:ASP:N	2.35	0.40
22:T2:785:LYS:O	22:T2:789:GLU:HG3	2.21	0.40
22:T4:781:THR:O	22:T4:785:LYS:HG3	2.20	0.40
23:U2:363:VAL:HG11	23:U2:408:ASP:OD1	2.21	0.40
23:U4:13:THR:O	23:U4:17:ASP:HB2	2.21	0.40
23:U4:156:CYS:HB2	24:V4:351:ILE:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:363:VAL:HG11	23:U4:408:ASP:OD1	2.21	0.40
24:V1:161:LEU:HD11	25:W1:17:LEU:HG	2.03	0.40
24:V1:247:TYR:CZ	24:V1:260:LEU:HD13	2.56	0.40
24:V3:154:PHE:HA	24:V3:160:LEU:HD22	2.04	0.40
24:V3:492:LEU:HD11	24:V3:508:ILE:HG23	2.04	0.40
25:W1:14:ASP:OD1	25:W1:15:ALA:N	2.54	0.40
25:W1:209:ASP:OD2	25:W1:259:ARG:HD3	2.21	0.40
25:W3:23:ARG:NH1	25:W3:84:GLU:OE1	2.54	0.40
25:W3:225:VAL:CG2	25:W3:271:LEU:HD22	2.51	0.40
26:X2:220:ASP:OD2	26:X2:222:GLU:HB3	2.20	0.40
26:X2:511:TYR:HE2	26:X2:518:ASP:HB3	1.87	0.40
26:X4:57:PRO:HB2	26:X4:82:ILE:HD11	2.03	0.40
26:X4:295:TYR:HA	26:X4:296:PRO:HD3	1.89	0.40
26:X4:531:LEU:HB3	26:X4:534:ILE:CG1	2.51	0.40
28:Z1:558:LEU:HA	30:b1:236:THR:CB	2.51	0.40
28:Z1:683:SER:OG	28:Z1:686:PHE:HB2	2.22	0.40
28:Z2:153:GLN:OE1	28:Z2:193:HIS:HA	2.20	0.40
28:Z2:270:PHE:CD1	28:Z2:270:PHE:C	3.00	0.40
28:Z2:354:LEU:HD21	28:Z2:460:ALA:HB1	2.04	0.40
28:Z2:742:GLU:CB	30:b2:162:ASP:O	2.70	0.40
28:Z3:270:PHE:CD1	28:Z3:270:PHE:C	3.00	0.40
28:Z3:349:LEU:HB2	28:Z3:368:VAL:CG2	2.52	0.40
28:Z3:477:GLN:HA	28:Z3:478:PRO:HD2	1.87	0.40
28:Z3:742:GLU:CB	30:b3:162:ASP:O	2.70	0.40
28:Z4:405:GLU:HA	28:Z4:408:PHE:HB2	2.04	0.40
30:b2:31:LEU:HD12	30:b2:31:LEU:HA	1.84	0.40
30:b2:191:GLN:O	30:b2:201:ILE:HG22	2.21	0.40
30:b3:56:LEU:HB2	30:b3:371:HIS:NE2	2.37	0.40
30:b3:143:ALA:HB3	30:b3:192:PHE:CD2	2.57	0.40
30:b3:170:ARG:HD3	30:b3:214:TRP:HZ3	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	4	25
23	U2	413/436 (95%)	367 (89%)	35 (8%)	11 (3%)	4	25
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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	858/1035 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
28	Z2	858/1035 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
28	Z3	858/1035 (83%)	798 (93%)	49 (6%)	11 (1%)	9	42
28	Z4	858/1035 (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
All	All	45287/51646 (88%)	42909 (95%)	2058 (4%)	320 (1%)	20	56

All (320) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A2	521	ASN
2	A2	1024	ASP
2	A2	1305	ALA

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	U3	434	THR
23	U4	8	GLN
23	U4	55	ASN
23	U4	141	THR
23	U4	354	SER
24	V1	180	LEU
24	V1	348	GLY

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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
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	U1	440	ASP
23	U2	434	THR
23	U2	440	ASP
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

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Mol	Chain	Res	Type
28	Z2	264	ASP
28	Z3	264	ASP
28	Z4	264	ASP
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	U2	87	ALA
23	U3	87	ALA
23	U4	87	ALA
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

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Mol	Chain	Res	Type
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
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
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	Z1	500	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

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Mol	Chain	Res	Type
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
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 ⓘ

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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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	387/402 (96%)	363 (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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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	639/970 (66%)	611 (96%)	28 (4%)	25	47
28	Z2	639/970 (66%)	611 (96%)	28 (4%)	25	47
28	Z3	639/970 (66%)	611 (96%)	28 (4%)	25	47
28	Z4	639/970 (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
All	All	37655/45001 (84%)	36568 (97%)	1087 (3%)	38	58

All (1087) 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

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Mol	Chain	Res	Type
1	A1	790	ASP
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

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Mol	Chain	Res	Type
2	A2	519	LEU
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

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Mol	Chain	Res	Type
2	A2	1117	ILE
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

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Mol	Chain	Res	Type
2	A4	241	VAL
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

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Mol	Chain	Res	Type
2	A4	730	THR
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

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Mol	Chain	Res	Type
3	A5	316	ARG
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

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Mol	Chain	Res	Type
3	A6	1329	GLU
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

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Mol	Chain	Res	Type
21	S1	96	LEU
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

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Mol	Chain	Res	Type
21	S2	399	SER
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

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Mol	Chain	Res	Type
21	S3	1036	ILE
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

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Mol	Chain	Res	Type
22	T1	786	VAL
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

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Mol	Chain	Res	Type
23	U1	403	SER
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

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Mol	Chain	Res	Type
23	U3	274	GLN
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

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Mol	Chain	Res	Type
24	V1	234	LEU
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

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Mol	Chain	Res	Type
24	V2	210	GLN
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

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Mol	Chain	Res	Type
24	V3	175	ARG
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

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Mol	Chain	Res	Type
24	V3	531	LEU
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

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Mol	Chain	Res	Type
24	V4	516	ILE
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

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Mol	Chain	Res	Type
25	W4	139	ILE
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

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Mol	Chain	Res	Type
26	X3	269	ASP
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

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Mol	Chain	Res	Type
27	Y2	168	ASP
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

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Mol	Chain	Res	Type
28	Z1	328	ILE
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

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Mol	Chain	Res	Type
28	Z2	703	ASP
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

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Mol	Chain	Res	Type
28	Z4	328	ILE
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

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Mol	Chain	Res	Type
30	b1	131	SER
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

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Mol	Chain	Res	Type
30	b3	131	SER
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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (553) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	276	GLN
1	A1	554	GLN
1	A1	714	GLN
1	A1	923	GLN
1	A1	1027	HIS
1	A1	1072	ASN
1	A1	1106	HIS

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Mol	Chain	Res	Type
1	A1	1192	GLN
1	A1	1194	HIS
1	A1	1199	GLN
1	A1	1233	GLN
2	A2	83	GLN
2	A2	87	GLN
2	A2	123	HIS
2	A2	425	GLN
2	A2	551	GLN
2	A2	636	ASN
2	A2	722	ASN
2	A2	861	GLN
2	A2	868	GLN
2	A2	924	GLN
2	A2	996	ASN
2	A2	1042	HIS
2	A2	1101	GLN
2	A2	1103	GLN
2	A2	1155	ASN
2	A2	1192	GLN
2	A2	1199	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	503	GLN
1	A3	554	GLN
1	A3	714	GLN
1	A3	923	GLN
1	A3	1027	HIS
1	A3	1072	ASN
1	A3	1106	HIS
1	A3	1192	GLN
1	A3	1194	HIS
1	A3	1199	GLN
1	A3	1233	GLN

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Mol	Chain	Res	Type
1	A3	1294	GLN
2	A4	173	ASN
2	A4	551	GLN
2	A4	636	ASN
2	A4	761	GLN
2	A4	861	GLN
2	A4	904	GLN
2	A4	924	GLN
2	A4	961	GLN
2	A4	996	ASN
2	A4	1042	HIS
2	A4	1088	ASN
2	A4	1092	ASN
2	A4	1103	GLN
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	1368	GLN
3	A5	276	GLN
3	A5	503	GLN
3	A5	554	GLN
3	A5	714	GLN
3	A5	924	GLN
3	A5	961	GLN
3	A5	1027	HIS
3	A5	1033	GLN
3	A5	1042	HIS
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	129	ASN
3	A6	137	HIS

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Mol	Chain	Res	Type
3	A6	276	GLN
3	A6	554	GLN
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	1155	ASN
3	A6	1192	GLN
3	A6	1233	GLN
3	A6	1265	ASN
3	A6	1364	GLN
3	A6	1368	GLN
5	C4	748	ASN
6	D1	193	ASN
6	D1	200	HIS
6	D1	316	HIS
6	D1	339	ASN
6	D1	353	GLN
6	D1	419	ASN
6	D1	549	GLN
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	759	GLN
6	D2	819	ASN
6	D3	193	ASN
6	D3	200	HIS
6	D3	244	ASN
6	D3	316	HIS
6	D3	339	ASN
6	D3	353	GLN
6	D3	357	ASN
6	D3	419	ASN
6	D3	515	HIS
6	D3	549	GLN
6	D3	819	ASN
6	D4	200	HIS

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Mol	Chain	Res	Type
6	D4	316	HIS
6	D4	339	ASN
6	D4	357	ASN
6	D4	419	ASN
6	D4	819	ASN
6	D5	193	ASN
6	D5	200	HIS
6	D5	316	HIS
6	D5	339	ASN
6	D5	353	GLN
6	D5	419	ASN
6	D5	549	GLN
6	D5	819	ASN
6	D6	193	ASN
6	D6	200	HIS
6	D6	316	HIS
6	D6	339	ASN
6	D6	419	ASN
6	D6	549	GLN
6	D6	819	ASN
6	D7	193	ASN
6	D7	200	HIS
6	D7	316	HIS
6	D7	339	ASN
6	D7	419	ASN
6	D7	511	GLN
6	D7	549	GLN
6	D7	819	ASN
8	F1	361	HIS
8	F1	416	GLN
8	F1	704	HIS
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	972	HIS
8	F2	1049	GLN

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Mol	Chain	Res	Type
8	F2	1294	ASN
8	F2	1441	GLN
8	F2	1752	HIS
9	G1	254	ASN
9	G1	290	GLN
9	G1	296	GLN
9	G2	290	GLN
9	G2	296	GLN
11	I1	81	ASN
11	I1	113	GLN
11	I1	225	GLN
11	I1	261	GLN
11	I1	498	GLN
11	I1	878	GLN
11	I1	892	HIS
11	I1	927	HIS
11	I1	982	GLN
11	I1	1182	GLN
11	I1	1304	ASN
11	I1	1635	HIS
11	I1	1660	GLN
11	I1	1667	GLN
11	I2	81	ASN
11	I2	113	GLN
11	I2	225	GLN
11	I2	261	GLN
11	I2	498	GLN
11	I2	548	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

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Mol	Chain	Res	Type
11	I3	225	GLN
11	I3	261	GLN
11	I3	393	GLN
11	I3	498	GLN
11	I3	548	GLN
11	I3	771	ASN
11	I3	914	ASN
11	I3	982	GLN
11	I3	1182	GLN
11	I3	1191	GLN
11	I3	1304	ASN
11	I3	1635	HIS
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	498	GLN
11	I4	548	GLN
11	I4	914	ASN
11	I4	982	GLN
11	I4	1046	HIS
11	I4	1182	GLN
11	I4	1191	GLN
11	I4	1304	ASN
11	I4	1660	GLN
11	I5	29	GLN
11	I5	81	ASN
11	I5	113	GLN
11	I5	225	GLN
11	I5	261	GLN
11	I5	393	GLN
11	I5	498	GLN
11	I5	914	ASN
11	I5	1182	GLN
11	I5	1304	ASN
11	I5	1607	GLN
11	I5	1635	HIS
11	I5	1660	GLN
15	M1	502	ASN
15	M1	584	GLN

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Mol	Chain	Res	Type
15	M1	618	GLN
15	M1	624	ASN
15	M1	631	GLN
15	M2	502	ASN
15	M3	502	ASN
15	M3	584	GLN
15	M4	502	ASN
16	N1	298	HIS
16	N2	276	HIS
16	N2	298	HIS
16	N3	298	HIS
16	N4	276	HIS
16	N4	298	HIS
17	O1	133	ASN
17	O1	293	GLN
17	O2	133	ASN
17	O2	152	GLN
17	O2	263	GLN
17	O2	293	GLN
17	O3	133	ASN
17	O3	293	GLN
17	O4	133	ASN
17	O4	152	GLN
17	O4	225	GLN
17	O4	265	ASN
17	O4	293	GLN
18	P1	234	GLN
18	P1	323	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

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Mol	Chain	Res	Type
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	1155	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	1155	GLN
22	T1	684	GLN
22	T1	761	ASN
22	T1	862	HIS
22	T1	870	GLN
22	T1	886	HIS
22	T1	902	GLN
22	T1	914	GLN
22	T2	705	HIS
22	T2	757	HIS
22	T2	761	ASN
22	T2	862	HIS
22	T2	870	GLN
22	T2	886	HIS
22	T2	902	GLN
22	T2	914	GLN
22	T3	761	ASN
22	T3	862	HIS
22	T3	870	GLN
22	T3	902	GLN

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Mol	Chain	Res	Type
22	T3	914	GLN
22	T4	862	HIS
22	T4	870	GLN
22	T4	886	HIS
22	T4	902	GLN
22	T4	914	GLN
23	U1	274	GLN
23	U1	291	ASN
23	U1	300	ASN
23	U1	360	HIS
23	U1	423	GLN
23	U2	360	HIS
23	U2	423	GLN
23	U3	360	HIS
23	U3	423	GLN
23	U4	360	HIS
23	U4	423	GLN
24	V1	210	GLN
24	V1	329	ASN
24	V1	354	ASN
24	V1	405	GLN
24	V1	461	ASN
24	V1	488	HIS
24	V1	490	HIS
24	V1	536	GLN
24	V1	542	GLN
24	V2	210	GLN
24	V2	329	ASN
24	V2	354	ASN
24	V2	405	GLN
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

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Mol	Chain	Res	Type
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
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
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	X1	510	HIS

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Mol	Chain	Res	Type
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	315	GLN
26	X3	342	ASN
26	X3	403	HIS
26	X3	467	ASN
26	X4	170	ASN
26	X4	260	GLN
26	X4	308	ASN
26	X4	342	ASN
26	X4	403	HIS
26	X4	467	ASN
26	X4	510	HIS
27	Y1	99	ASN
27	Y2	99	ASN
27	Y3	99	ASN
27	Y4	90	GLN
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	350	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

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Mol	Chain	Res	Type
28	Z2	154	ASN
28	Z2	239	GLN
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	120	ASN
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
28	Z3	588	ASN
28	Z4	10	ASN
28	Z4	116	GLN
28	Z4	151	HIS
28	Z4	154	ASN
28	Z4	239	GLN
28	Z4	255	GLN
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

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Mol	Chain	Res	Type
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	9	GLN
30	b1	24	GLN
30	b1	135	ASN
30	b1	138	ASN
30	b1	150	ASN
30	b1	350	ASN
30	b2	6	ASN
30	b2	9	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	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	109	ASN
30	b4	135	ASN
30	b4	138	ASN
30	b4	150	ASN
30	b4	350	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

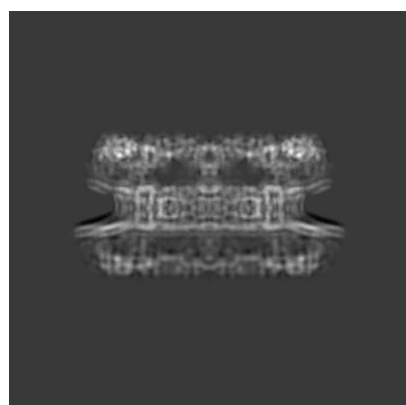
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-14322. These allow visual inspection of the internal detail of the map and identification of artifacts.

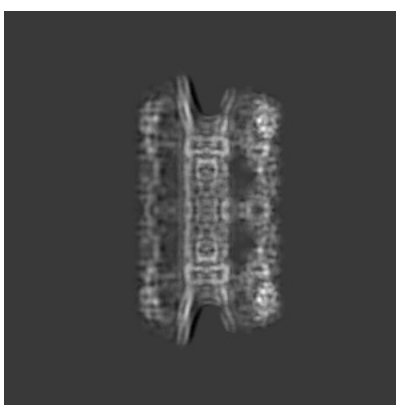
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

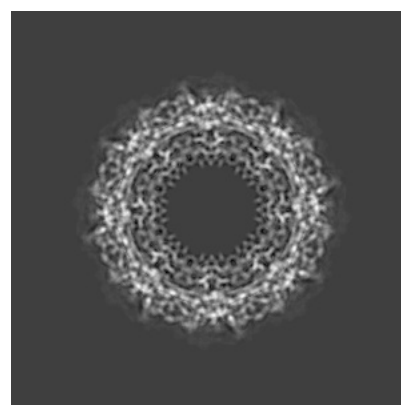
6.1.1 Primary map



X



Y

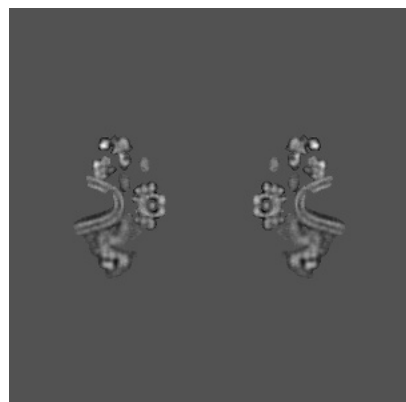


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 288



Y Index: 288



Z Index: 288

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

6.3 Largest variance slices [i](#)

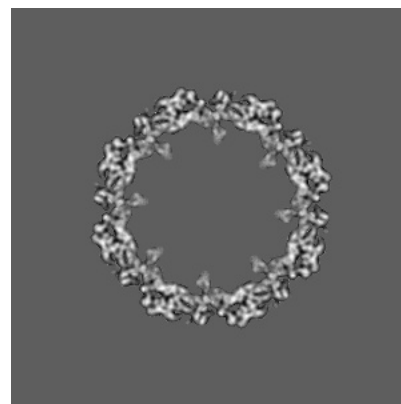
6.3.1 Primary map



X Index: 404



Y Index: 172

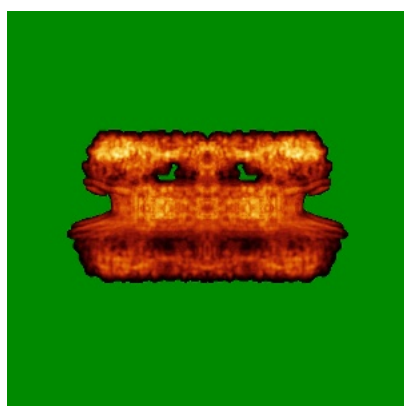


Z Index: 370

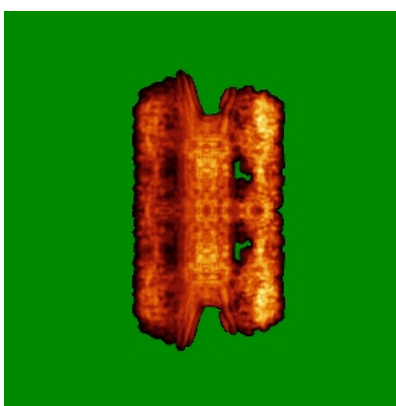
The images above show the largest variance slices of the map in three orthogonal directions.

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

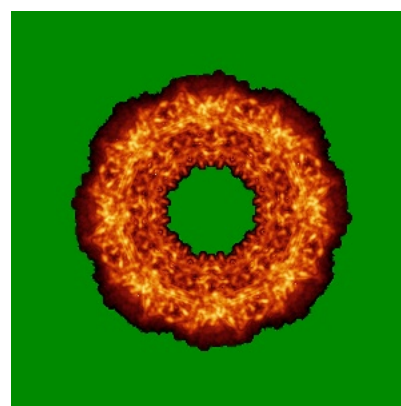
6.4.1 Primary map



X



Y

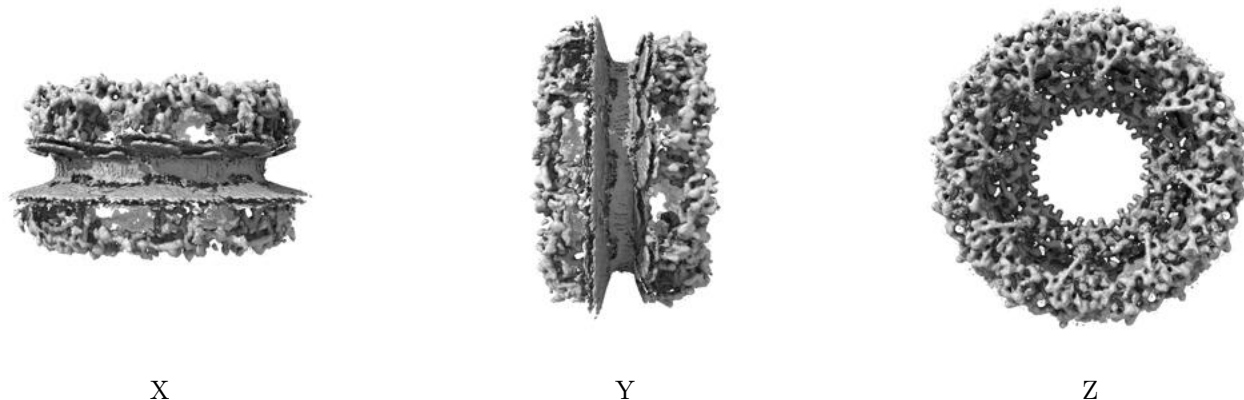


Z

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



The images above show the 3D surface view of the map at the recommended contour level 3.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

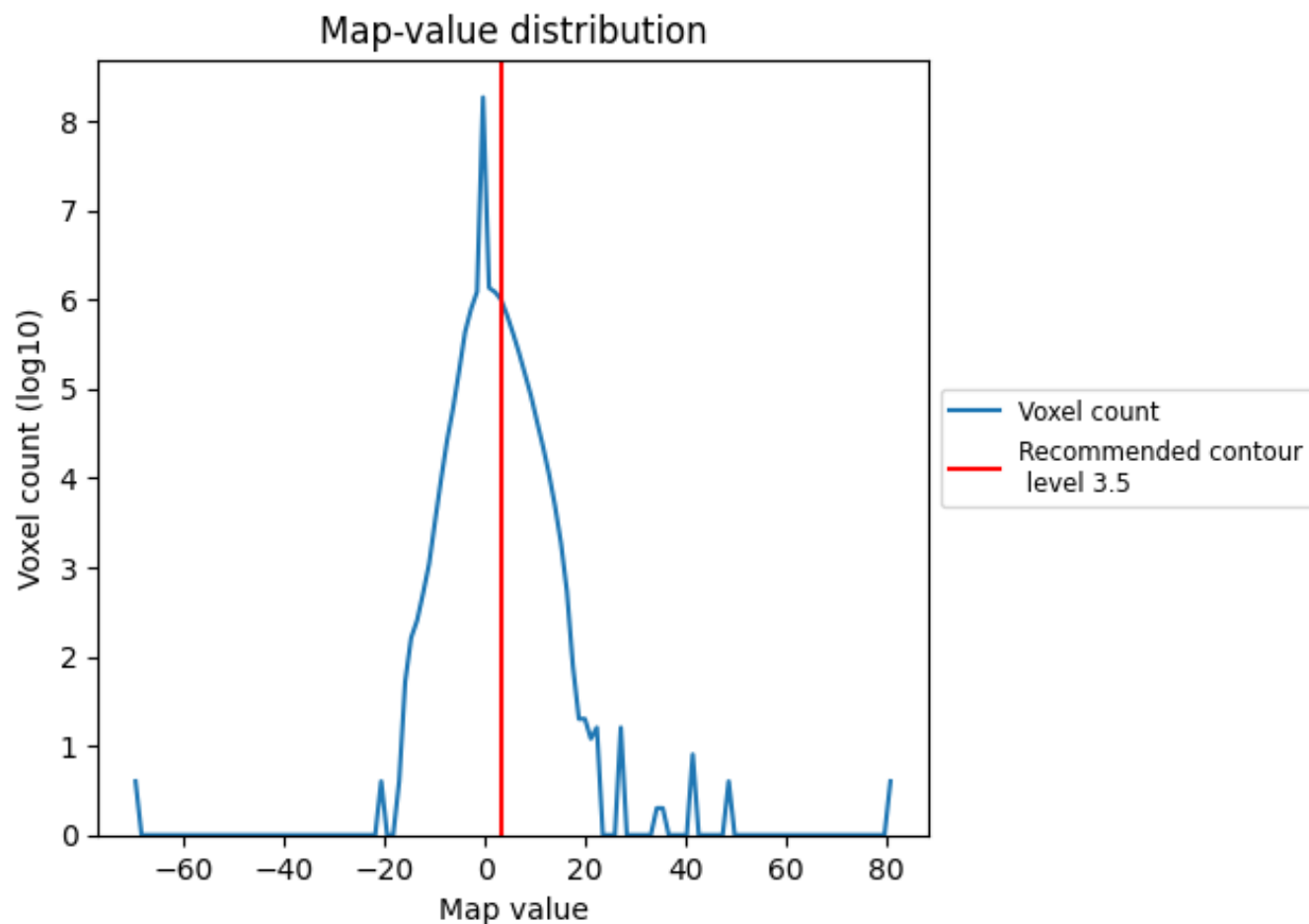
6.6 Mask visualisation [i](#)

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

7 Map analysis ⓘ

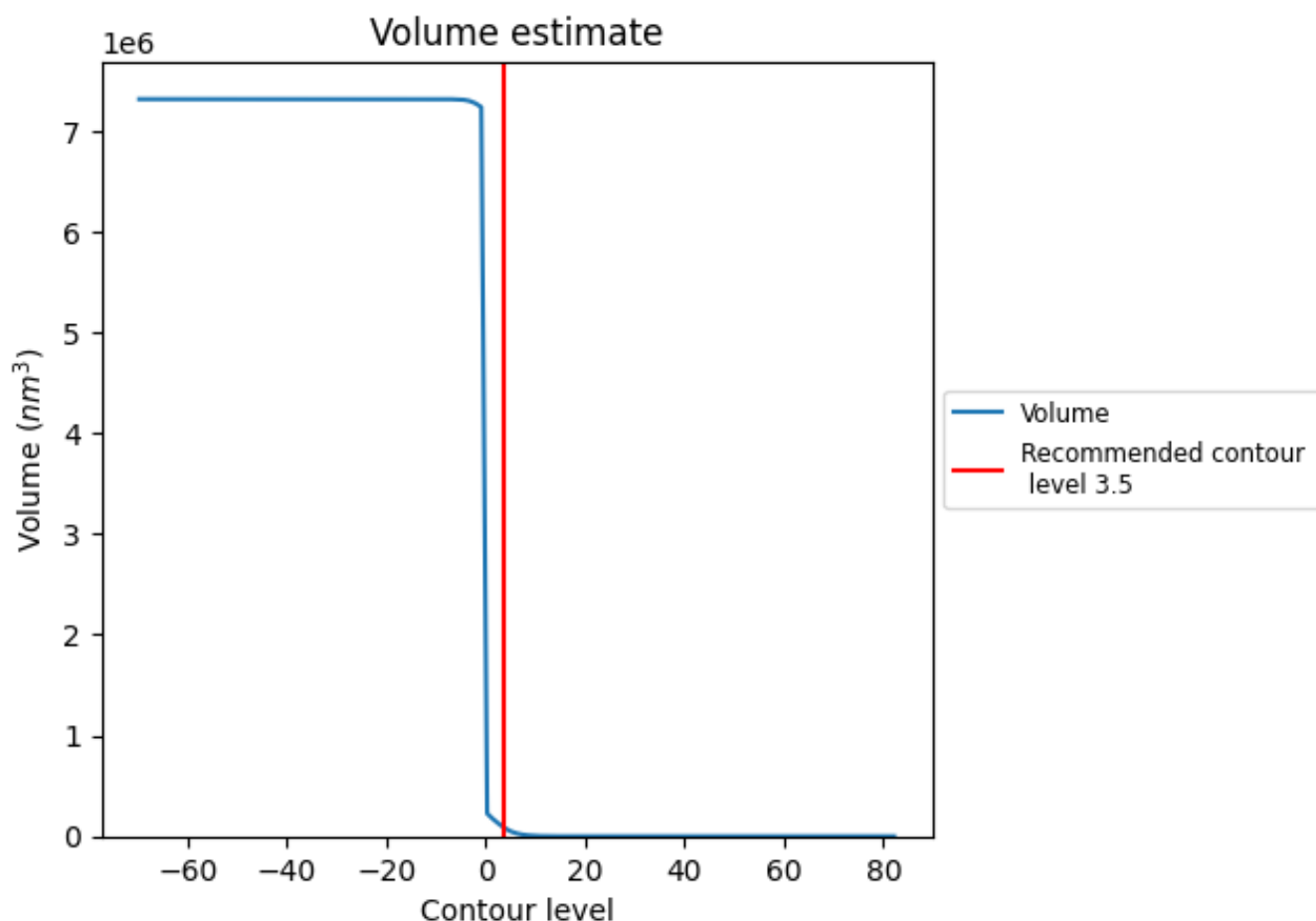
This section contains the results of statistical analysis of the map.

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.

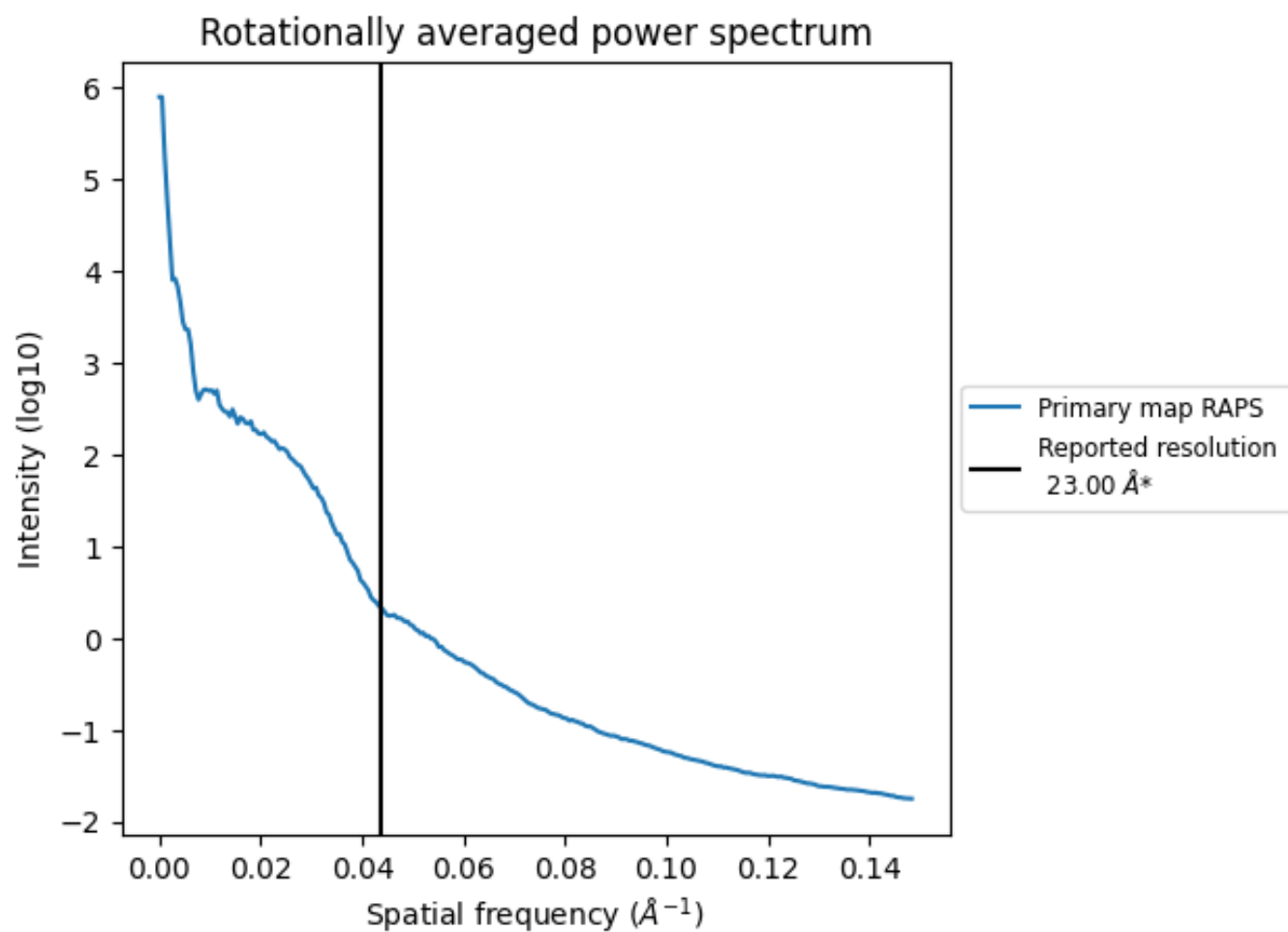
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 93549 nm³; this corresponds to an approximate mass of 84505 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.043 Å⁻¹

8 Fourier-Shell correlation

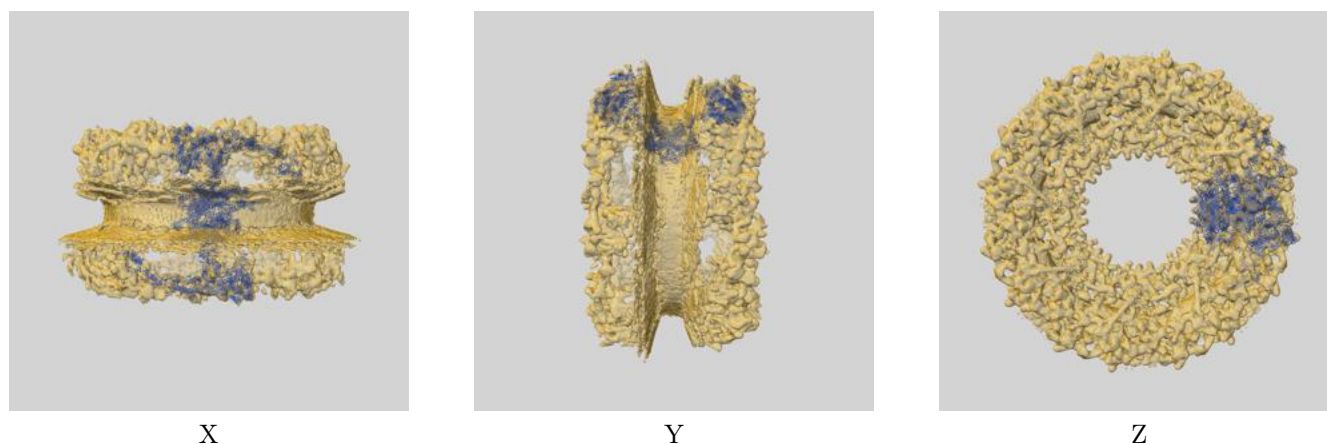
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

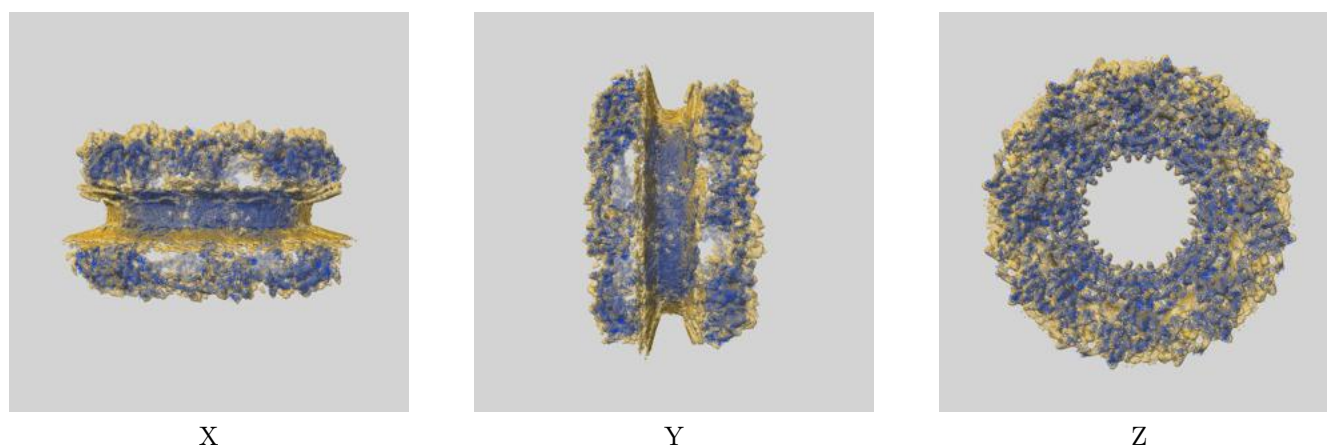
This section contains information regarding the fit between EMDB map EMD-14322 and PDB model 7TBJ. Per-residue inclusion information can be found in section 3 on page 17.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

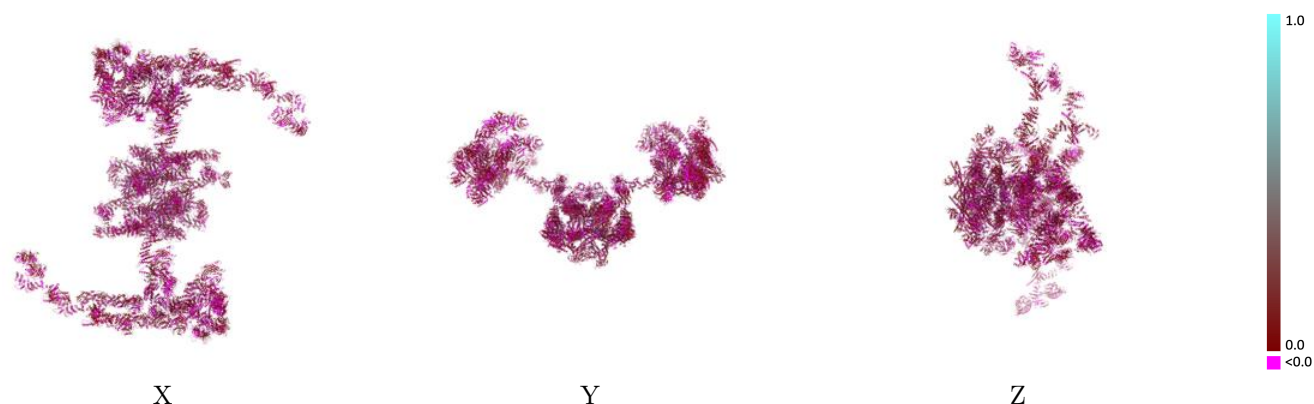


9.1.2 Map-model assembly overlay [i](#)



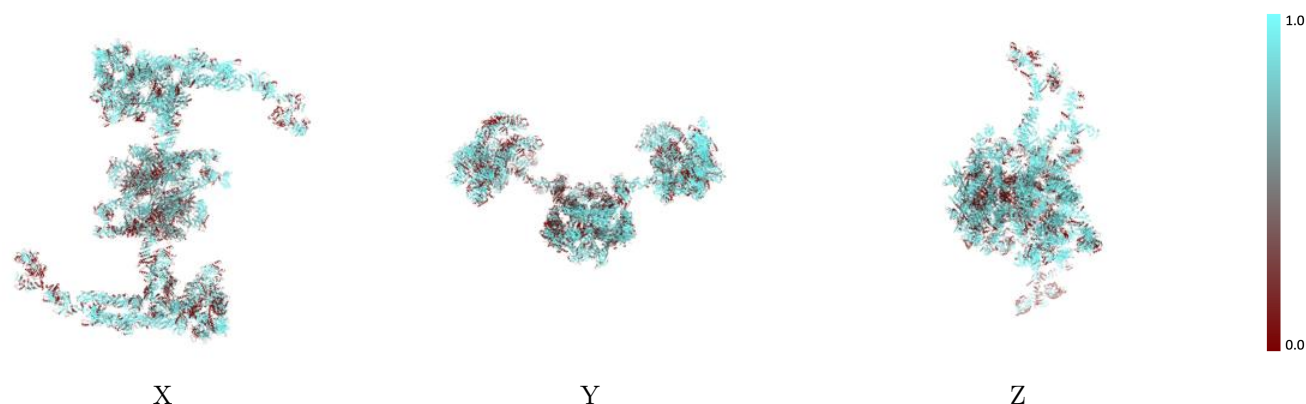
The images above show the 3D surface view of the map at the recommended contour level 3.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



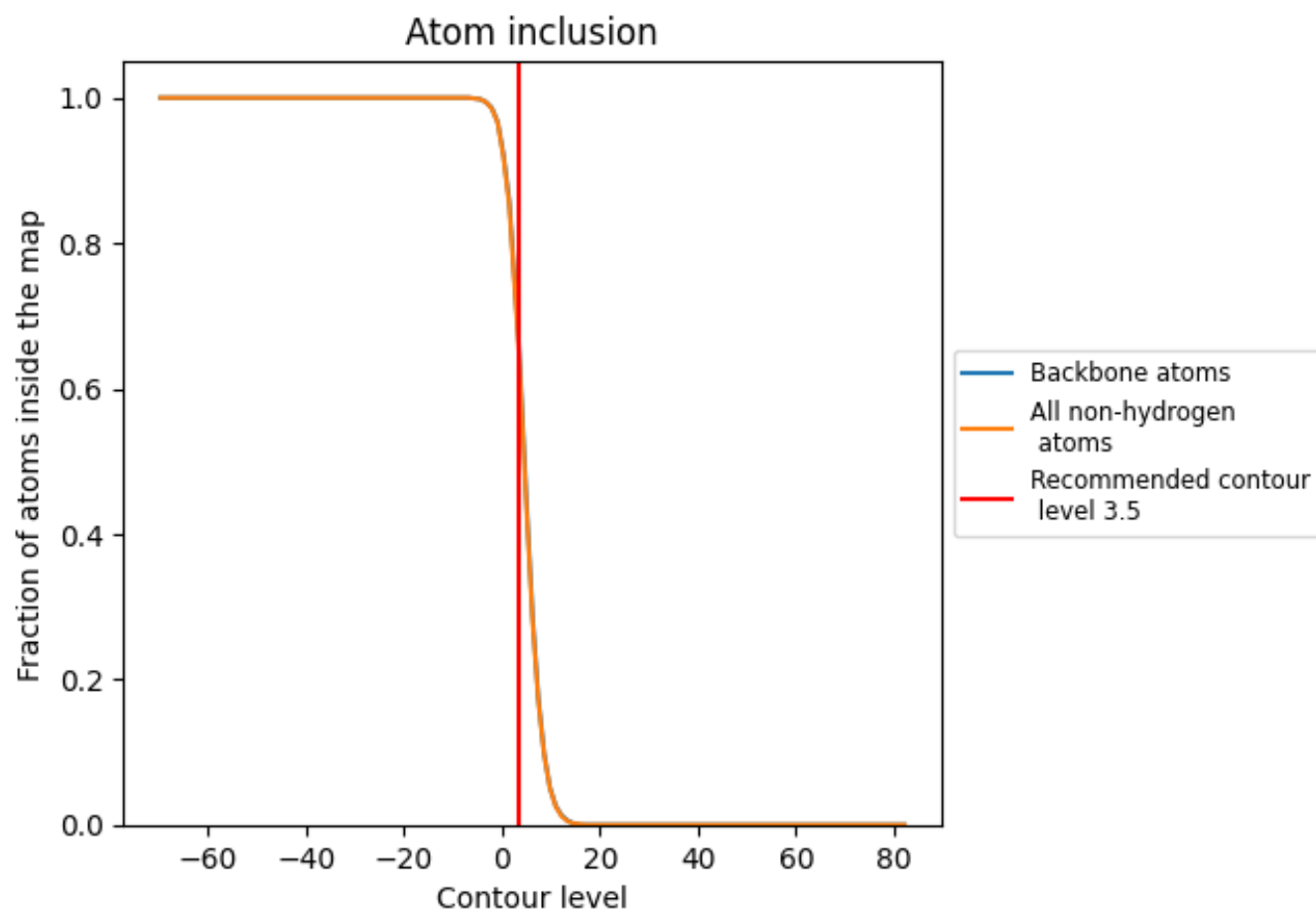
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (3.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 66% of all backbone atoms, 65% 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 (3.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6470	 0.0380
A1	 0.6920	 0.0430
A2	 0.3830	 0.0190
A3	 0.6640	 0.0450
A4	 0.4330	 0.0280
A5	 0.7310	 0.0460
A6	 0.4680	 0.0430
B1	 0.0000	 -0.0460
B2	 0.0090	 -0.0370
B3	 0.0000	 0.0070
B4	 0.0920	 0.0130
B5	 0.0830	 -0.0330
B6	 0.0090	 -0.0100
C1	 0.3530	 0.0440
C2	 0.5870	 0.0120
C3	 0.1180	 0.0320
C4	 0.3160	 0.0530
C5	 0.9560	 0.0590
C6	 0.4040	 0.0310
D1	 0.7760	 0.0550
D2	 0.7520	 0.0520
D3	 0.7200	 0.0420
D4	 0.4600	 0.0450
D5	 0.8300	 0.0650
D6	 0.7240	 0.0560
D7	 0.5020	 0.0260
E1	 0.6830	 0.0250
E2	 0.5000	 -0.0320
E3	 0.4000	 0.0590
E4	 0.2330	 0.0450
E5	 0.2830	 -0.0510
E6	 0.6500	 -0.0050
E7	 0.0170	 -0.0360
F1	 0.6830	 0.0410
F2	 0.5170	 0.0400



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Chain	Atom inclusion	Q-score
G1	 0.5250	 -0.0020
G2	 0.4170	 0.0080
H1	 0.4790	 0.0300
H2	 0.3080	 0.0530
I1	 0.6300	 0.0290
I2	 0.6240	 0.0350
I3	 0.7450	 0.0450
I4	 0.5340	 0.0360
I5	 0.7090	 0.0330
J1	 0.5580	 0.0060
J2	 0.6690	 0.0090
J3	 0.5800	 -0.0120
J4	 0.5440	 0.0240
J5	 0.7060	 0.0110
K1	 0.1250	 -0.0050
K2	 0.1250	 -0.0300
K3	 0.3750	 0.0010
K4	 0.0140	 -0.0060
K5	 0.3610	 -0.0030
L1	 0.0000	 -0.0780
L2	 0.0000	 -0.0120
L3	 0.2670	 -0.0820
L4	 0.0000	 -0.0270
L5	 0.8000	 0.0520
M1	 0.7070	 0.0410
M2	 0.7550	 0.0580
M3	 0.6620	 0.0360
M4	 0.7620	 0.0690
N1	 0.7250	 0.0480
N2	 0.7650	 0.0650
N3	 0.6890	 0.0400
N4	 0.7230	 0.0560
O1	 0.7140	 0.0490
O2	 0.6490	 0.0480
O3	 0.7230	 0.0560
O4	 0.6280	 0.0490
P1	 0.7620	 0.0680
P2	 0.7860	 0.0620
P3	 0.8120	 0.0670
P4	 0.7250	 0.0540
Q1	 0.9920	 0.0740
Q2	 0.9880	 0.0710

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Chain	Atom inclusion	Q-score
Q3	 0.9690	 0.0810
Q4	 0.9570	 0.0660
R1	 0.5880	 0.0100
R2	 0.6930	 0.0350
R3	 0.4690	 0.0400
R4	 0.5640	 0.0110
S1	 0.5780	 0.0370
S2	 0.6120	 0.0320
S3	 0.4210	 0.0320
S4	 0.4220	 0.0280
T1	 0.7540	 0.0460
T2	 0.7920	 0.0580
T3	 0.6970	 0.0410
T4	 0.7120	 0.0520
U1	 0.8160	 0.0450
U2	 0.8910	 0.0620
U3	 0.7920	 0.0490
U4	 0.7940	 0.0550
V1	 0.8960	 0.0590
V2	 0.8700	 0.0560
V3	 0.8050	 0.0570
V4	 0.7490	 0.0440
W1	 0.8670	 0.0440
W2	 0.7860	 0.0340
W3	 0.8110	 0.0500
W4	 0.6560	 0.0230
X1	 0.7950	 0.0330
X2	 0.8330	 0.0380
X3	 0.6600	 0.0310
X4	 0.5720	 0.0220
Y1	 0.6240	 0.0280
Y2	 0.6590	 0.0230
Y3	 0.5470	 0.0220
Y4	 0.5650	 0.0250
Z1	 0.6390	 0.0160
Z2	 0.7330	 0.0240
Z3	 0.4490	 0.0190
Z4	 0.5050	 0.0200
a1	 0.9260	 0.0530
a2	 0.7790	 0.0430
a3	 0.8270	 0.0500
a4	 0.7590	 0.0490

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Chain	Atom inclusion	Q-score
b1	 0.6780	 0.0320
b2	 0.5550	 0.0240
b3	 0.5230	 0.0100
b4	 0.5680	 0.0180