



Full wwPDB EM Validation Report ⓘ

Nov 28, 2022 – 11:02 PM EST

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

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ 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.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

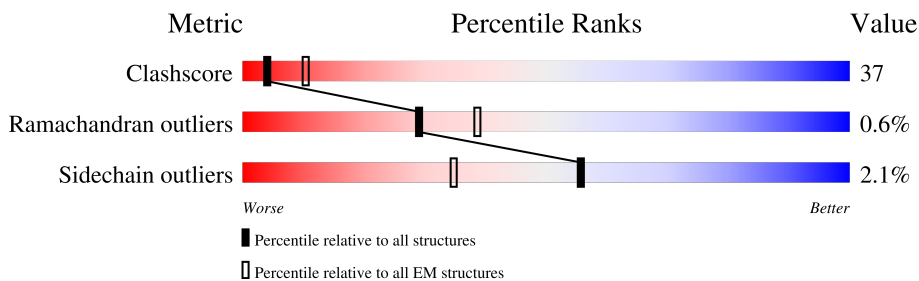
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 37.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	<div style="display: flex; justify-content: space-between;"> 36% 87% 7% 6% </div>
1	A3	1316	<div style="display: flex; justify-content: space-between;"> 78% 79% 14% 6% </div>
2	A2	1328	<div style="display: flex; justify-content: space-between;"> 53% 73% 20% •• </div>
2	A4	1328	<div style="display: flex; justify-content: space-between;"> 86% 60% 32% •• </div>
3	A5	1330	<div style="display: flex; justify-content: space-between;"> 50% 81% 14% • </div>
3	A6	1330	<div style="display: flex; justify-content: space-between;"> 85% 61% 35% • </div>
4	B1	14	<div style="display: flex; justify-content: space-between;"> 79% 93% 7% </div>
4	B2	14	<div style="display: flex; justify-content: space-between;"> 57% 43% </div>

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Mol	Chain	Length	Quality of chain
4	B3	14	100% 93% 7%
4	B4	14	100% 57% 43%
4	B5	14	71% 29%
4	B6	14	100% 7% 93%
5	C1	19	84% 5% 11%
5	C2	19	26% 100%
5	C3	19	89% 84% 5% 11%
5	C4	19	11% 68% 32%
5	C5	19	21% 58% 32% 11%
5	C6	19	89% 58% 32% 11%
6	D1	644	60% 70% 27% .
6	D2	644	55% 83% 14% .
6	D3	644	76% 64% 33% .
6	D4	644	96% 83% 14% .
6	D5	644	42% 84% 13% .
6	D6	644	81% 82% 14% .
6	D7	644	96% 81% 15% .
7	E1	8	25% 75% 25%
7	E2	8	25% 75% 25%
7	E3	8	100% 75% 25%
7	E4	8	100% 75% 25%
7	E5	8	12% 75% 25%
7	E6	8	100% 75% 25%
7	E7	8	100% 75% 25%
8	F1	1858	67% 81% 7% 12%

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Mol	Chain	Length	Quality of chain
8	F2	1858	84% 81% 7% 12%
9	G1	53	91% 68% 32%
9	G2	53	100% 85% 15%
10	H1	13	92%
10	H2	13	100%
11	I1	1756	49% 68% 20% 12%
11	I2	1756	73% 68% 20% 12%
11	I3	1756	67% 79% 9% 12%
11	I4	1756	35% 80% 8% 12%
11	I5	1756	88% 78% 10% 12%
12	J1	63	70% 71% 29%
12	J2	63	65% 73% 27%
12	J3	63	46% 78% 22%
12	J4	63	76% 79% 21%
12	J5	63	100% 79% 21%
13	K1	9	100%
13	K2	9	100%
13	K3	9	100%
13	K4	9	100%
13	K5	9	100%
14	L1	2	100%
14	L2	2	100%
14	L3	2	100%
14	L4	2	100%
14	L5	2	100%

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Mol	Chain	Length	Quality of chain
15	M1	183	41% 63% 29% 8%
15	M2	183	56% 87% 5% 8%
15	M3	183	77% 64% 28% 8%
15	M4	183	81% 90% 8%
16	N1	222	36% 59% 22% 19%
16	N2	222	44% 74% 7% 19%
16	N3	222	55% 61% 20% 19%
16	N4	222	61% 78% 19%
17	O1	241	54% 68% 32%
17	O2	241	66% 79% 21%
17	O3	241	82% 65% 35%
17	O4	241	98% 81% 19%
18	P1	116	80% 91% 9%
18	P2	116	100% 94% 6%
18	P3	116	100% 91% 9%
18	P4	116	100% 91% 9%
19	Q1	84	95% 93% 6%
19	Q2	84	65% 87% 8% 5%
19	Q3	84	50% 93% 6%
19	Q4	84	21% 87% 8% 5%
20	R1	40	72% 35% 65%
20	R2	40	55% 92% 8%
20	R3	40	60% 30% 70%
20	R4	40	62% 92% 8%
21	S1	1156	70% 58% 18% 22%

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Mol	Chain	Length	Quality of chain
21	S2	1156	59% 59% 17% 22%
21	S3	1156	67% 59% 16% 22%
21	S4	1156	78% 60% 16% 22%
22	T1	258	45% 64% 30%
22	T2	258	69% 63% 31%
22	T3	258	76% 62% 32%
22	T4	258	72% 62% 31%
23	U1	436	61% 71% 22%
23	U2	436	96% 71% 22%
23	U3	436	96% 70% 22%
23	U4	436	60% 70% 22%
24	V1	621	35% 59% 20% 18%
24	V2	621	82% 59% 21% 18%
24	V3	621	80% 58% 21% 18%
24	V4	621	31% 58% 21% 18%
25	W1	286	63% 65% 27%
25	W2	286	96% 64% 29%
25	W3	286	88% 66% 26%
25	W4	286	89% 61% 32%
26	X1	698	61% 65% 22% 11%
26	X2	698	89% 66% 21% 11%
26	X3	698	86% 66% 22% 11%
26	X4	698	88% 66% 22% 11%
27	Y1	346	7% 62% 26% 11%
27	Y2	346	80% 63% 25% 11%

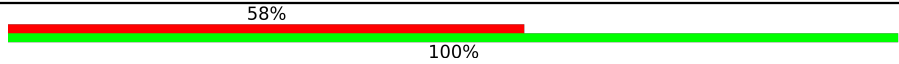
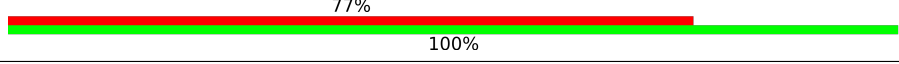
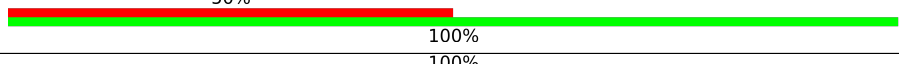

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Mol	Chain	Length	Quality of chain
27	Y3	346	89% 63% 25% 11%
27	Y4	346	89% 61% 27% 11%
28	Z1	1037	31% 71% 15% 14%
28	Z2	1037	80% 66% 20% 14%
28	Z3	1037	73% 71% 15% 14%
28	Z4	1037	45% 67% 18% 14%
29	a1	380	64% 82% 17%
29	a2	380	23% 82% 17%
29	a3	380	83% 82% 17%
29	a4	380	83% 82% 17%
30	b1	385	58% 83% 6% 11%
30	b2	385	85% 83% 6% 11%
30	b3	385	89% 83% 6% 11%
30	b4	385	31% 83% 6% 11%
31	c1	750	45% 99%
31	c2	750	84% 99%
31	c3	750	45% 99%
31	c4	750	68% 99%
31	c5	750	55% 99%
32	g	421	100% 95% 5%
33	h	232	100% 94% 5%
34	i	481	44% 85% 15%
35	j	150	92% 99%
36	k1	85	58% 87% 13%
37	k2	37	32% 97%

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Mol	Chain	Length	Quality of chain
38	l1	92	 58% 100%
39	l2	39	 77% 100%
40	m1	88	 50% 100%
41	m2	20	 100% 100%

2 Entry composition [i](#)

There are 41 unique types of molecules in this entry. The entry contains 400581 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called NUP155.

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

- Molecule 2 is a protein called NUP155.

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

- Molecule 3 is a protein called NUP155.

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

- Molecule 4 is a protein called NUP53 R3.

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

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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	418	Total	C	N	O	S	0	0
			3396	2174	555	655	12		
23	U2	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		
23	U3	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		
23	U4	419	Total	C	N	O	S	0	0
			3404	2178	557	657	12		

- Molecule 24 is a protein called NUP96.

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

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

- Molecule 25 is a protein called SEC13.

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

- Molecule 26 is a protein called NUP75.

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

- Molecule 27 is a protein called SEH1.

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

- Molecule 28 is a protein called NUP160.

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

- Molecule 29 is a protein called NUP43.

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

- Molecule 30 is a protein called NUP37.

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

- Molecule 31 is a protein called NUP358.

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

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

- Molecule 32 is a protein called NUP214 NTD.

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

- Molecule 33 is a protein called DDX19.

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

- Molecule 34 is a protein called NUP88 NTD.

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

- Molecule 35 is a protein called NUP98 APD.

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

- Molecule 36 is a protein called NUP62 CCS1.

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

- Molecule 37 is a protein called NUP62 CCS2.

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

- Molecule 38 is a protein called NUP214 CCS1.

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

- Molecule 39 is a protein called NUP214 CCS2.

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

- Molecule 40 is a protein called NUP88 CCS1.

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

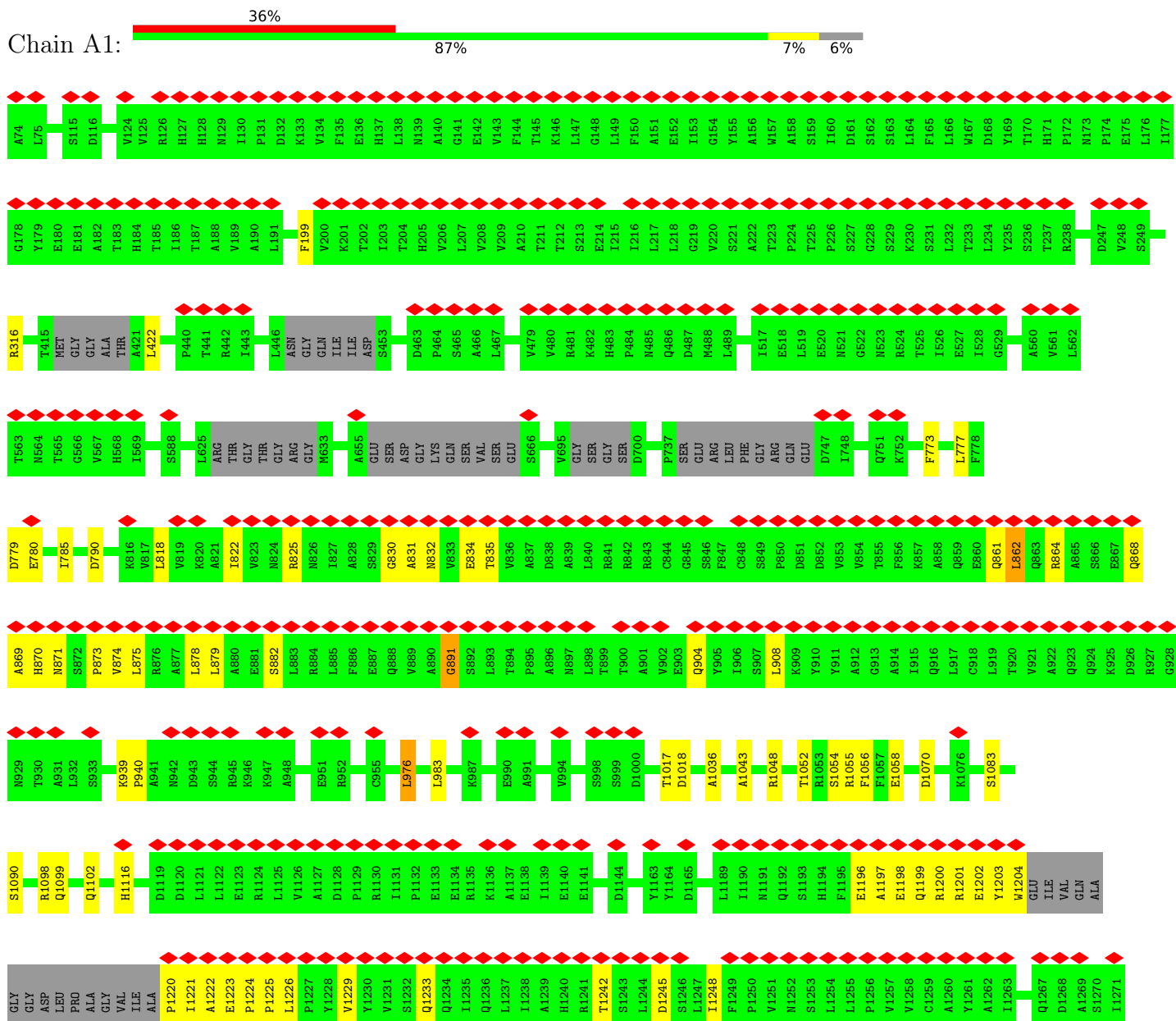
- Molecule 41 is a protein called NUP88 CCS2.

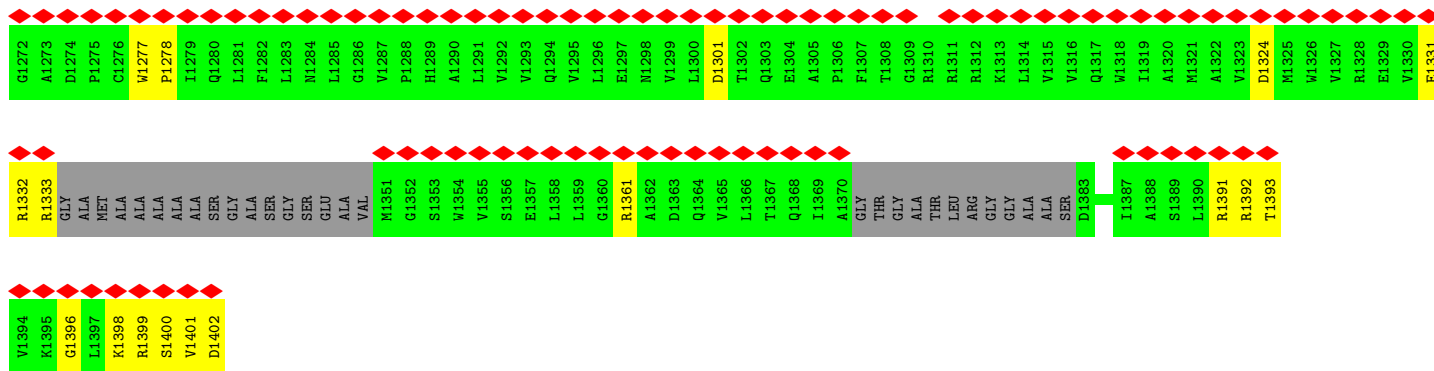
Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
41	m2	20	100	60	20	20	0	0

3 Residue-property plots

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

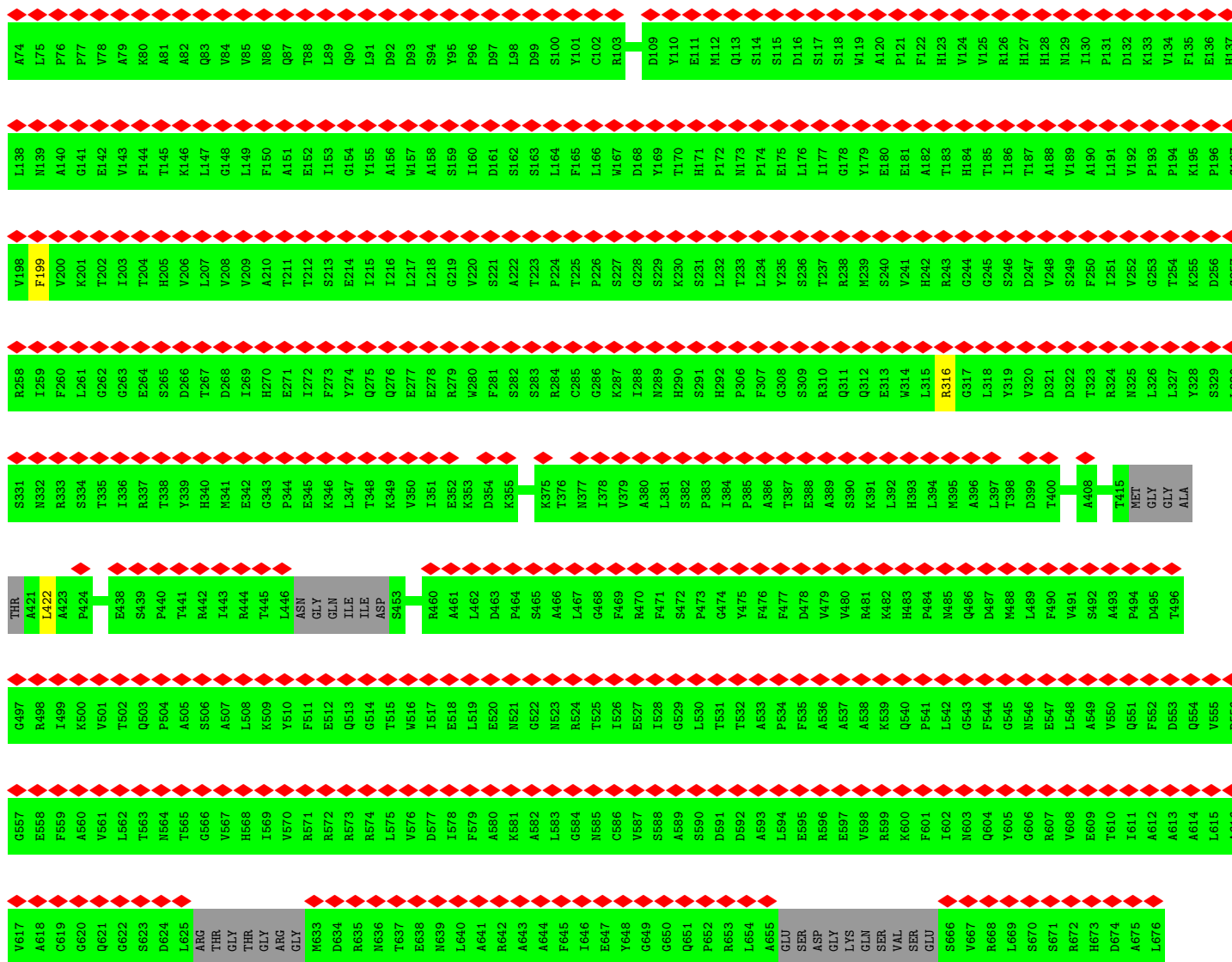
- Molecule 1: NUP155





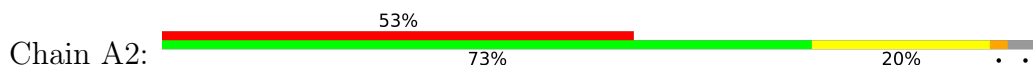
• Molecule 1: NUP155

Chain A3:

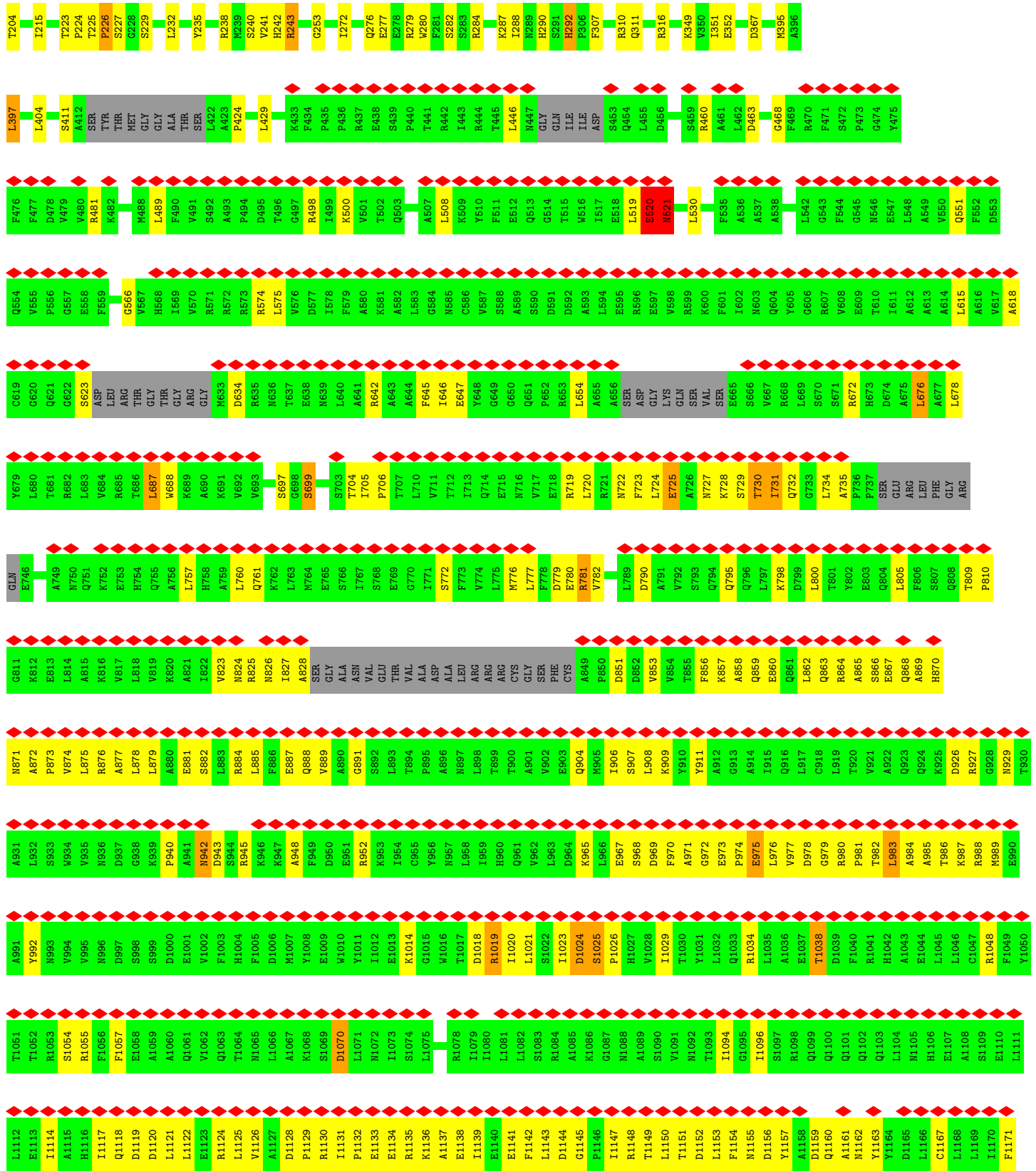


A677	L678	Y679	L680	T681	R682	L683	V684	R685	T686	L687	W688	K689	K691	V692	V693	Q694	V695	GLY	SER	GLY	SER	D700	I701	S702	S703	T704	I705	P706	T707	S708	K709	L710	V711	T712	I713	Q714	E715	N716	V717	E718	R719	L720	R721	N722	F723	L724	E725	A726	N727	K728	S729	T730	I731	Q732	G733	L734	A735	P736																																																									
P737	SER	GLU	ARG	LEU	PHE	GLY	ARG	GLN	GLU	D747	I748	A749	N750	Q751	K752	E753	H754	Q755	A756	L757	H758	A759	L760	Q761	K762	L763	M764	E765	S766	I767	S768	E769	G770	I771	S772	F773	V774	L775	M776	L777	F778	D779	E780	R781	V782	I785	D790	S793	Q796	L797	K798	D799	L800	T801	Y802	E803	Q804	L805	F806	S807	Q808	T809	P810	G811	K812	E813	L814	A815	K816	V817	L818	V819	K820	A821	I822	E823	N824	R825	N826	I827	A828	S829	G830	A831	N832	V833	E834	T835	V836	A837	D838	A839	L840	R841	R842	R843	C844	G845	S846	F847	C848	S849	P850	D851	D852	V853	T854	T855	F856	K857	L858	Q859	E860	Q861	L862
Q863	R864	A865	S866	Q867	Q868	A869	H870	N871	S872	P873	V874	L875	R876	A877	L878	L879	S882	G891	T894	P895	A896	N897	L898	T899	A900	A901	V902	E903	Q904	Y905	I906	S907	L908	K909	L910	Y911	A914	N934	V935	N936	D937	G938	K939	P940	A941	N942	D943	S944	R945	K946	K947	A948	F949	D950																																																													
E951	R952	K953	I954	C955	Y956	N957	L958	I959	H960	Q961	V962	L963	D964	K965	L966	E967	S968	D969	F970	A971	G972	E973	P974	E975	L976	L983	A984	Y992	V995	N996	F1003	H1004	F1005	D1006	L1007	Y1008	E1009	W1010	Y1011	I1012	E1013	K1014	G1015	W1016	T1017	D1018	R1019	D943	I1020	L1021	S1022	I1023	D1024	S1025	P1026	H1027																																																											
V1028	I1029	T1030	Y1031	L1032	Q1033	R1034	L1035	A1036	E1037	T1038	D1039	F1040	R1041	H1042	A1043	E1044	L1045	L1046	C1047	R1048	F1049	Y1050	T1051	L1052	R1053	S1054	R1055	F1056	F1057	E1058	A1059	A1060	Q1061	V1062	Q1063	T1064	N1065	L1066	A1067	K1068	S1069	D1070	L1071	N1072	I1073	S1074	L1075	K1076	D1077	R1078	I1079	I1080	L1081	L1082	S1083	R1084	A1085	K1086	G1087																																																								
M1088	A1089	S1090	V1091	N1092	L1093	T1094	G1095	I1096	S1097	R1098	Q1099	Q1100	Q1101	Q1102	Q1103	L1104	L1105	H1106	E1107	A1108	S1109	E1110	L1111	L1112	E1113	I1114	A1115	H1116	I1117	Q1118	D1119	D1120	L1121	L1122	E1123	L1124	L1125	V1126	A1127	P1128	R1129	I1130	I1131	P1132	E1133	E1134	R1135	K1136	A1137	E1138	I1139	E1140	R1200	R1201	F1142	L1143	D1144	G1145	P1146	I1147																																																							
R1148	T1149	L1150	T1151	D1152	L1153	F1154	N1155	D1156	C1157	A1158	D1159	Q1160	M1161	M1162	Y1163	Y1164	D1165	L1166	C1167	L1168	L1169	I1170	F1171	H1172	A1173	A1174	D1175	F1176	H1177	H1178	P1179	R1180	T1181	I1182	L1183	D1184	T1185	W1186	N1187	M1188	L1189	I1190	N1191	Q1192	S1193	H1194	F1195	E1196	A1197	A1198	Q1199	R1200	R1201	E1202	Y1203	W1204	GLU	ILE	VAL																																																								
G1268	A1269	S1270	I1271	A1272	G1273	D1274	P1275	C1276	W1277	P1278	I1279	Q1280	L1281	F1282	L1283	M1284	G1286	V1287	P1288	H1289	A1290	L1291	W1292	D1301	A1305	F1306	P1307	T1308	G1309	R1310	L1311	W1318	M1321	D1324	M1325	R1328	E1329	V1330	R1331	R1332	R1333	GLY	ALA	MET	ALA	ALA	ALA	ALA	ALA	SER	GLY	ALA	G1266	Q1267																																																													
SER	GLY	SER	GLU	ALA	LEU	ASP	PHE	PRO	ALA	GLY	VAL	ILE	ALA	P1220	I1221	A1222	E1223	P1224	P1225	F1282	L1283	M1284	G1286	V1287	P1288	H1289	A1290	L1291	W1292	D1301	A1305	F1306	P1307	T1308	G1309	R1310	L1311	W1318	M1321	D1324	M1325	R1328	E1329	V1330	R1331	R1332	R1333	GLY	ALA	MET	ALA	ALA	ALA	ALA	SER	GLY	ALA	G1266	Q1267																																																								

• Molecule 2: NUP155

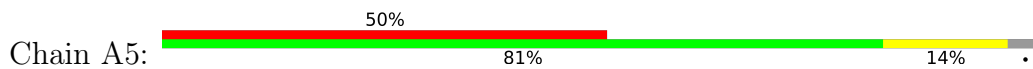


D74	L75	P76	P77	V78	R80	A81	A82	Q83	V84	V85	H86	Q87	L88	L89	G90	L91	D92	D93	S94	Y95	P96	D97	L98	Y101	G102	S107	S108	D109	Y110	E111	M112	Q113	S114	S115	D116	S117	S118	W119	A120	P121	F122	H123	V124	A126	H127	I130	V192	V198	F199	V200	I203
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L687	A749	T809	A869	N929	M989	F1049	S1109	E1223	G1286	G1346	G1406
V688	N750	P810	H670	T930	E990	Y1050	E1110	Y1228	V1287	S1347	G1407
K689	Q751	G811	N871	A931	A891	T1051	L1111	V1229	P1288	E1348	G1408
A690	K752	K812	A872	L932	Y992	T1052	L1112	Y1230	H1289	A1349	M1409
K691	E753	E813	V874	S933	M993	R1053	E1113	V1231	L1290	V1350	A1410
V692	H754	L814	L875	W934	V994	S1054	I1114	E1232	L1291	M1351	R1411
V693	Q755	A815	R876	V935	V995	R1055	A1115	Q1233	M1292	G1352	M1412
Q694	A756	K816	L878	N936	N996	F1056	H1116	Q1234	V1293	S1353	S1413
V695	L757	L817	L879	D937	D997	F1057	I1117	I1235	Q1294	W1354	F1414
G696	H758	L818	A880	G938	S998	E1058	Q1118	Q1236	V1295	W1355	F1415
S697	A759	V819	E881	K939	S999	A1059	D1119	L1237	L1296	S1356	R1416
G698	L760	K820	L883	P940	D1000	A1060	D1120	I1238	E1297	E1357	
S699	Q761	R821	R884	A941	E1001	Q1061	E1123	A1239	M1298	L1358	
D700	A821	I822	L885	O942	V1002	Q1062	E1133	H1240	V1299	L1359	
I701	L763	V823	F887	D943	F1003	T1064	E1144	T1242	L1300	G1360	
S702	M764	N824	Q888	S944	H1004	M1065	D1144	S1243	D1301	R1361	
S703	E765	R825	V889	R945	F1005	L1066	G1145	L1244	T1302	A1362	
T704	S766	N826	A890	K946	F1006	L1067	P1146	D1245	Q1303	D1363	
I705	I767	I827	G891	K947	M1007	K1068	I1147	S1246	E1304	Q1364	
P706	S768	A828	S892	A948	Y1008	K1069	I1148	I1247	A1305	V1365	
T707	E769	SER	L893	F949	E1009	S1069	R1146	L1248	P1306	L1366	
L710	G770	GLY	T894	D950	W1010	L1070	T1149	I1249	F1307	T1367	
V711	I771	ALA	P895	R945	Y1011	M1072	L1150	F1248	T1308	Q1368	
T712	S772	ASN	A896	K946	Y1012	I1073	T1151	F1249	G1309	I1369	
I713	V773	VAL	N897	K947	E1013	I1074	F1154	P1250	R1310	A1370	
Q714	F774	GLU	L898	S953	K1014	S1075	M1155	V1251	R1311	G1371	
E715	V775	THR	T899	R954	G1015	L1076	Q1160	M1252	R1312	T1372	
N716	L776	VAL	T900	C955	W1016	K1076	L1168	L1254	K1313	G1373	
V717	M776	ALA	A901	Y956	W1017	D1077	L1169	L1255	V1314	A1374	
E718	L777	LEU	V902	N957	D1018	R1078	L1170	L1256	V1315	L1374	
R719	F778	ARG	E903	L958	R1019	I1079	I1171	P1256	V1316	T1375	
L720	D779	ARG	Q904	I959	L1020	T1080	H1172	V1257	Q1317	L1376	
R721	E780	ARG	M905	H960	L1021	L1081	F1173	V1258	W1318	G1377	
R722	R781	CYS	I906	Q961	L1022	L1082	H1174	C1259	A1319	G1378	
F723	R782	GLY	S907	V962	S1022	S1083	A1173	A1260	A1320	G1379	
L724	S783	PHE	S908	L963	I1023	S1084	A1174	Y1261	A1321	A1380	
E725	D784	CYS	K909	D964	D1024	R1084	D1175	A1262	M1322	A1381	
A726	I785	P850	Y910	K965	S1025	A1085	F1176	I1263	V1322	S1382	
N727	Y786	D851	Y911	L966	P1026	K1086	H1177	I1264	V1323	D1383	
K728	A787	D852	A912	E967	H1027	G1087	M1178	M1265	A1324	A1384	
S729	R788	V853	G913	S968	V1028	M1088	P1179	M1266	M1325	E1385	
T730	V854	V854	A914	D969	I1029	A1089	R1180	G1267	W1326	E1386	
T731	L789	V855	Q916	F970	T1030	S1090	T1181	D1268	V1327	L1387	
Q732	D790	T855	C918	A971	Y1031	V1091	I1182	A1269	R1328	A1388	
G733	A791	F856	L917	G972	Q1033	M1092	M1183	S1270	E1329	A1388	
G733	S793	K857	L919	G972	L1032	T1093	D1184	I1271	V1330	S1389	
A735	Q795	S859	T920	P974	R1034	I1094	T1185	G1272	I1331	L1390	
P736	Q796	E860	V921	E975	L1035	G1095	W1186	A1273	R1332	R1392	
P737	L797	L862	A922	L976	E1037	I1096	M1187	D1274	R1333	T1393	
SER	K798	K863	Q923	V977	T1038	S1097	I1190	P1275	G1334	W1394	
GLU	D799	Q864	Q924	D978	D1039	Q1098	W1204	W1276	A1335	V1394	
ARG	D799	A865	K925	G979	F1040	Q1099	L1213	P1277	M1336	G1396	
LEU	L800	A865	D926	P981	R1041	Q1101	L1213	P1278	M1337	L1397	
PHE	T801	S866	R927	L983	H1042	Q1102	P1220	I1279	A1338	R1398	
GLY	Y802	E867	L983	A984	A1043	Q1103	Q1280	I1281	A1339	R1399	
ARG	E803	E867	L1045	A985	E1044	L1104	M1105	F1282	A1340	S1400	
GLN	Q804	L805	L1046	T986	E1044	L1104	M1105	L1283	A1341	V1401	
E746	L805	F806	C1047	R988	L1046	H1106	E1107	L1284	S1342	D1402	
D747	L806	R807	R1048						G1343	M1403	
I748	Q808	S807							A1344	L1404	
									S1345	L1405	

• Molecule 3: NUP155

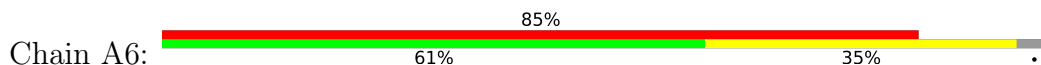


D74	D109	Y110	E111	M112	Q113	S114	D116	S117	S118	W119	A120	F121	H123	V124	V125	H127	H128	M129	I130	P131	D132	K133	V134	F136	E136	H137	L138	M139	A140	G141	E142	V143	F144	K146	L147	F150	I153	A156	W157	A158	S159	I160	D161	S162	S163	F165	L166	W167	D168	Y169									
T170	H171	P172	M173	P174	E175	L176	C178	Y179	E180	I186	T187	A188	V189	F199	V220	S221	A222	P226	S227	G228	S229	L232	T233	L234	Y235	R316	T415	MET	GLY	GLY	ALA	THR	A421	L422	P436	R437	E438	S439	P440	T441	R442	G566	I443	R444	T445	H568	I569	ASN	GLY	GLN	ILE	ILE							
ASP	S453	Q454	S459	R460	A461	L462	D463	V480	R481	K482	H483	P484	N485	Q486	D487	M488	D495	T496	G497	R498	V501	F511	E512	Q513	G514	T515	W516	I517	E518	L519	E520	N521	G522	G523	R524	L562	T563	N564	T565	G566	I443	V567	H568	I569	R573	R574	L575	V576	D577	I578	F579	A580	K581						
A582	L583	G584	N585	S588	A589	E595	R596	E597	V598	R599	K600	F601	I602	N603	Q604	Y605	G606	R607	V608	E609	T610	I611	A612	A613	A614	L615	A616	V617	G622	S623	D624	L625	ARG	THR	GLY	GLY	ARG	M633	D634	A644	F645	G649	G650	Q651	P652	R653	L654	A655	GLU	SER	ASP								
GLY	LYS	GLN	SER	VAL	SER	GLU	S666	S670	A658	R672	H673	D674	A675	L676	V695	GLY	SER	GLY	SER	D700	P737	SER	GLU	ARG	LEU	PHE	GLY	ARG	GLN	GLU	D747	A759	L760	F773	L777	F778	D779	E780	I785	D790	L818	I822	R825	N826	I827	S849	P850												
D851	D852	V853	W854	T855	F856	K857	Q858	Q859	E860	Q861	L862	Q863	R864	A865	S866	E867	Q868	A869	H870	N871	S872	P873	W874	L875	R876	A877	L878	L879	A880	E881	S882	L883	R884	L885	F886	Q887	Q888	V889	A890	G891	S892	L893	T894	P895	A896	N897	L898	T899	T900	A901	V902	E903	Q904	N905	L906	S907	L908	K909	Y910
Y911	A912	G913	A914	I915	F916	L917	C918	L919	T920	V921	A922	Q923	Q924	K925	D926	R927	G928	N929	T930	A931	L932	S933	W934	V935	N936	D937	G938	K939	P940	A941	N942	D943	S944	K945	K946	K947	A948	F949	D950	E951	R952	K953	I954	C955	V956	N957	L958	R959	H960	Q961	V962	L963	K965	L966	E967	S968	D969	F970	
A971	G972	E973	P974	E975	L976	V977	D978	G979	R980	P981	T982	L983	A984	A985	T986	K987	R988	M989	E990	A991	Y992	N993	V994	V995	N996	D997	S998	S999	D1000	E1001	Y1002	F1003	H1004	F1005	D1006	M1007	Y1008	E1009	M1010	Y1011	I1012	E1013	K1014	G1015	M1016	T1017	R1018	R1019	I1020	L1021	S1022	I1023	D1024	S1025	P1026	H1027	V1028	I1029	T1030
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I1096	S1097	R1098	Q1099	Q1100	Q1101	Q1102	Q1103	L1104	N1105	H1106	E1107	S1108	E1109	E1110	L1111	L1112	E1113	L1114	A1115	H1116	L1117	Q1118	D1119	D1120	L1121	L1122	E1123	R1124	P1129	R1130	R1135	I1139	L1150	T1151	L1152	L1153	F1154	N1155	A1158	D1159	Q1160	A1161	N1162	Y1163	Y1164	D1165	L1166	C1167	L1168	L1169	I1170	F1171	H1172	A1173					
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Q1294	V1295	L1296	E1297	M1298	V1299	L1300	D1301	Q1302	Q1303	E1304	A1305	P1306	T1307	T1308	G1309	R1310	R1311	R1312	K1313	L1314	V1315	V1316	Q1317	W1318	I1319	A1320	M1321	A1322	D1323	M1324	N1325	W1326	V1327	R1328	E1329	V1330	E1331	R1332	R1333	G1334	A1335	M1336	A1337	A1338	ALA	ALA	GLY	ALA	SER	GLY	SER	GLU	ALA	V1350	M1351	Q1352	S1353		

W1354	W1355	S1356	E1357	L1358	L1359	G1360	R1361	A1362	D1363	Q1364	V1365	L1366	T1367	Q1368	I1369	A1370	G1371	T1372	G1373	A1374	T1375	L1376	R1377	G1378	G1379	A1380	A1381	S1382	D1383	A1384	E1385	L1386	I1387	A1388	S1389	L1390	R1391	R1392	T1393	V1394	K1395	G1396	L1397	K1398	R1399	S1400	V1401	D1402	M1403	L1404	L1405	G1406	G1407	E1408	M1409	A1410	R1411	M1412	S1413
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F1414	F1415	R1416
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• Molecule 3: NUP155



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T387	E388	A389	S390	R391	L392	H393	L394	M395	A396	L397	T398	D399	T400	G401	C402	R403	L404	F405	L406	S407	A408	T409	S410	S411	A412	S413	Y414	T415	MET	GLY	GLY	C358	ALA	THR	L422	A423	P424	Q425	S426	M427	Q428	L429	Q430	F431	V432	K433	F434	P435	P436	R437	E438	S439	P440	T441	R442	I443	R444	T445	L446
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ASN	GLY	GLN	ILE	ASP	S453	Q454	L455	D456	K457	T458	S459	R460	A461	L462	D463	P464	S465	A466	L467	G468	P469	R470	F471	S472	P473	G474	Y475	F476	F477	D478	V479	V480	K539	R481	K482	H483	P484	M485	Q486	D487	M488	L489	F490	V491	S492	A493	P494	D495	T496	G497	R498	I499	K500	V501	T502	Q503	P504	A505	S506
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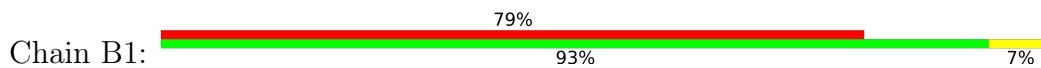
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V567	H568	I569	V570	R571	R572	R573	R574	L575	V576	D577	I578	F579	A580	K581	A582	L583	G584	N585	C586	V587	S588	A589	S590	D591	D592	A593	L594	E595	R596	E597	V598	R599	K600	F601	I602	N603	G604	Y605	G606	R607	V608	E609	T610	I611	A612	A613	A614	L615	A616	V617	A618	C619	G620	Q621	G622	S623	D624	L625	ARG
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THR	GLY	THR	GLY	ARG	GLY	M633	D634	R635	M636	T637	E638	M639	L640	A641	R642	A643	A644	F645	I646	E647	Y648	G649	G650	Q651	P652	R653	L654	A655	GLU	SER	ASP	GLY	LYS	GLN	SER	VAL	SER	GLU	S666	V667	R668	L669	S670	S671	R672	H673	D674	A675	L676	A677	L678	Y679	L680	T681	R682	L683	V684	R685	T686
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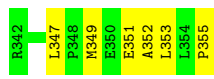
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D747	I748	A749	N750	Q751	K752	E753	H754	Q755	A756	L757	H758	A759	K820	Q761	K762	L763	M764	E765	S766	I767	S768	E769	G770	I771	T772	S773	F774	L775	M776	L777	F778	D779	E780	R781	V782	S783	D784	I785	S786	F787	R788	L789	D790	A791	G792	S793	Q794	S795	Q796	L797	K798	Q799	L800	T801	Y802	E803	Q804	L805	F806	
S807	Q808	T809	P810	K811	E812	E813	L814	A815	K816	V817	L818	V819	K820	A821	I822	E823	N824	R825	N826	I827	A828	S829	G830	A831	N832	V833	E834	T835	V836	A837	D838	A839	L840	R841	R842	R843	C844	G845	S846	F847	C848	S849	P850	D851	R852	S853	V854	S855	Q856	L857	A858	Q859	E860	Q861	L862	Q863	Q864	A865	S866	
E867	Q868	A869	H870	A891	S872	P873	V874	L875	R876	A877	L878	L879	A880	E881	S882	L883	R884	L885	F886	E887	Q888	V889	A890	A891	S892	L893	T894	P895	A896	N897	L898	T899	R899	L900	R901	V902	E903	Q904	M905	I906	S907	L908	K909	Y910	Y911	A912	G913	A914	S915	Q916	L917	C918	L919	T920	E921	A922	Q923	Q924	X925	D926
R927	G928	N929	T930	A931	L932	S933	W934	V935	N936	D937	G938	K939	P940	A941	N942	D943	S944	R945	K946	K947	A948	F949	D950	E951	R952	K953	I954	C955	V956	N957	L958	I959	H960	Q961	V962	L963	D964	K965	L966	E967	S968	D969	F970	A971	G972	E973	P974	E975	L976	V977	D978	G979	R980	P981	T982	L983	A984	A985	T986	
K987	R988	M989	E990	A991	Y992	N993	V994	V995	N996	D997	S998	S999	D1000	E1001	V1002	F1003	H1004	F1005	D1006	M1007	Y1008	E1009	W1010	Y1011	I1012	E1013	K1014	C995	W1015	W1016	T1017	D1018	R1019	I1020	L1021	S1022	L1023	D1024	S1025	P1026	H1027	W1028	I1029	T1030	Y1031	G1032	Q1033	R1034	L1035	A1036	E1037	T1038	D1039	F1040	R1041	H1042	A1043	E1044	L1045	L1046
C1047	R1048	F1049	Y1050	T1051	T1052	R1053	S1054	E1055	F1056	F1057	E1058	A1059	A1060	Q1061	V1062	T1063	T1064	M1065	L1066	A1067	K1068	S1069	D1070	L1071	M1072	I1073	S1074	L1075	K1076	D1077	R1078	I1079	I1080	L1081	L1082	S1083	R1084	A1085	I1086	E1107	A1108	L1111	L1112	E1113	I1114	H1115	H1116	I1117	Q1118	D1119	D1120	L1121	L1122	E1123	R1124	L1125				
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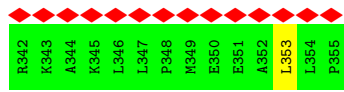


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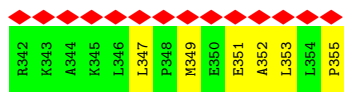
• Molecule 4: NUP53 R3



● Molecule 4: NUP53 R3



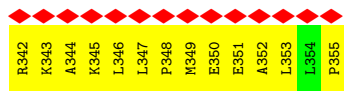
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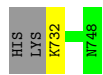
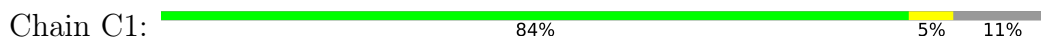
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● Molecule 4: NUP53 R3



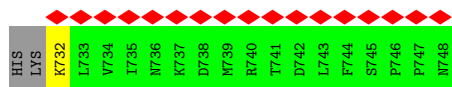
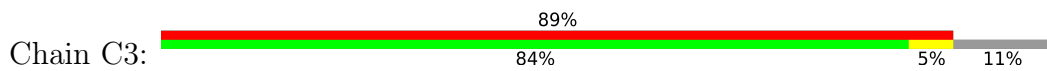
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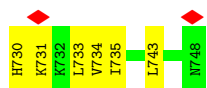
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● Molecule 5: NUP98 R3



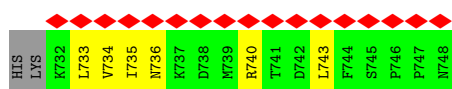
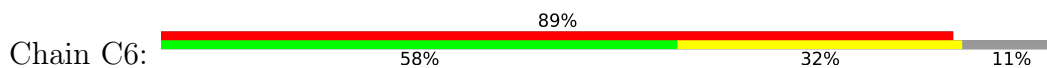
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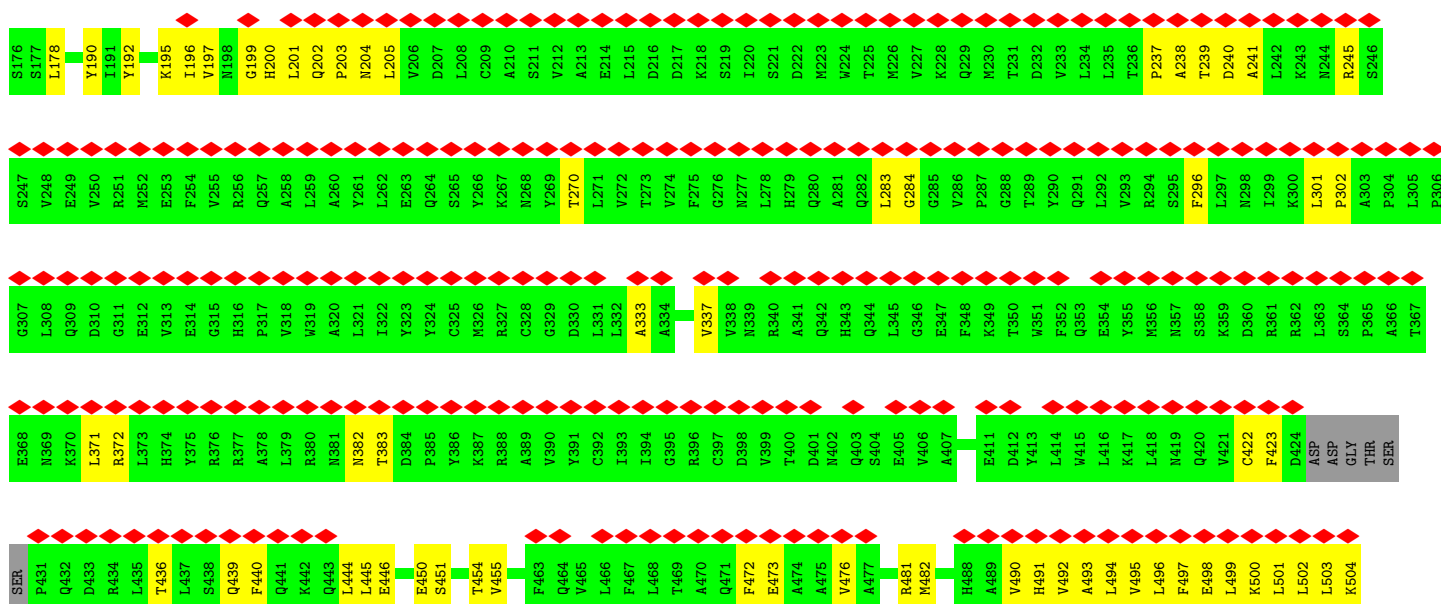
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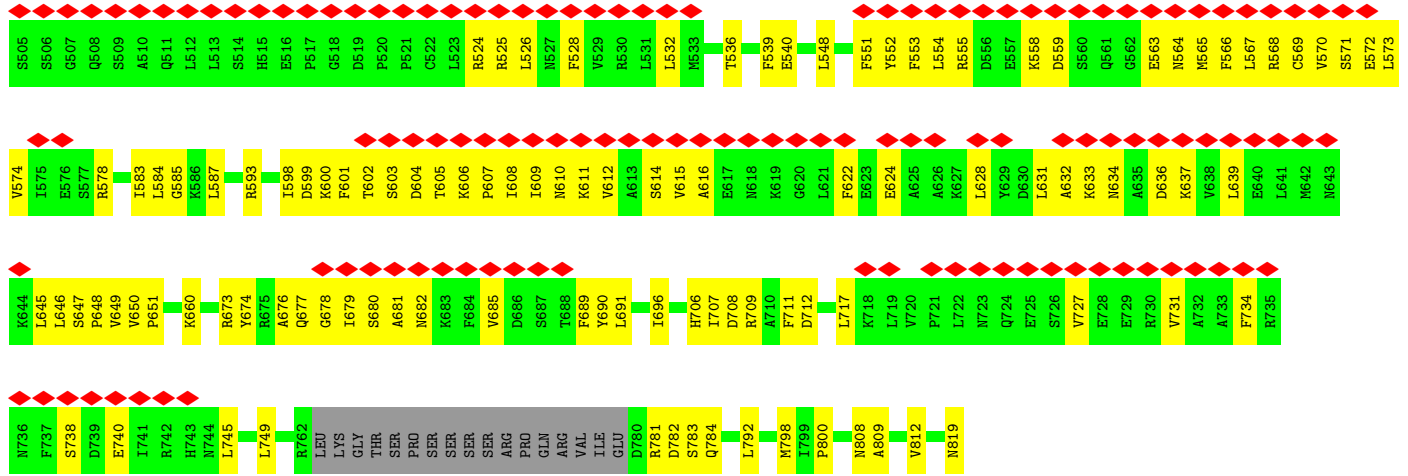


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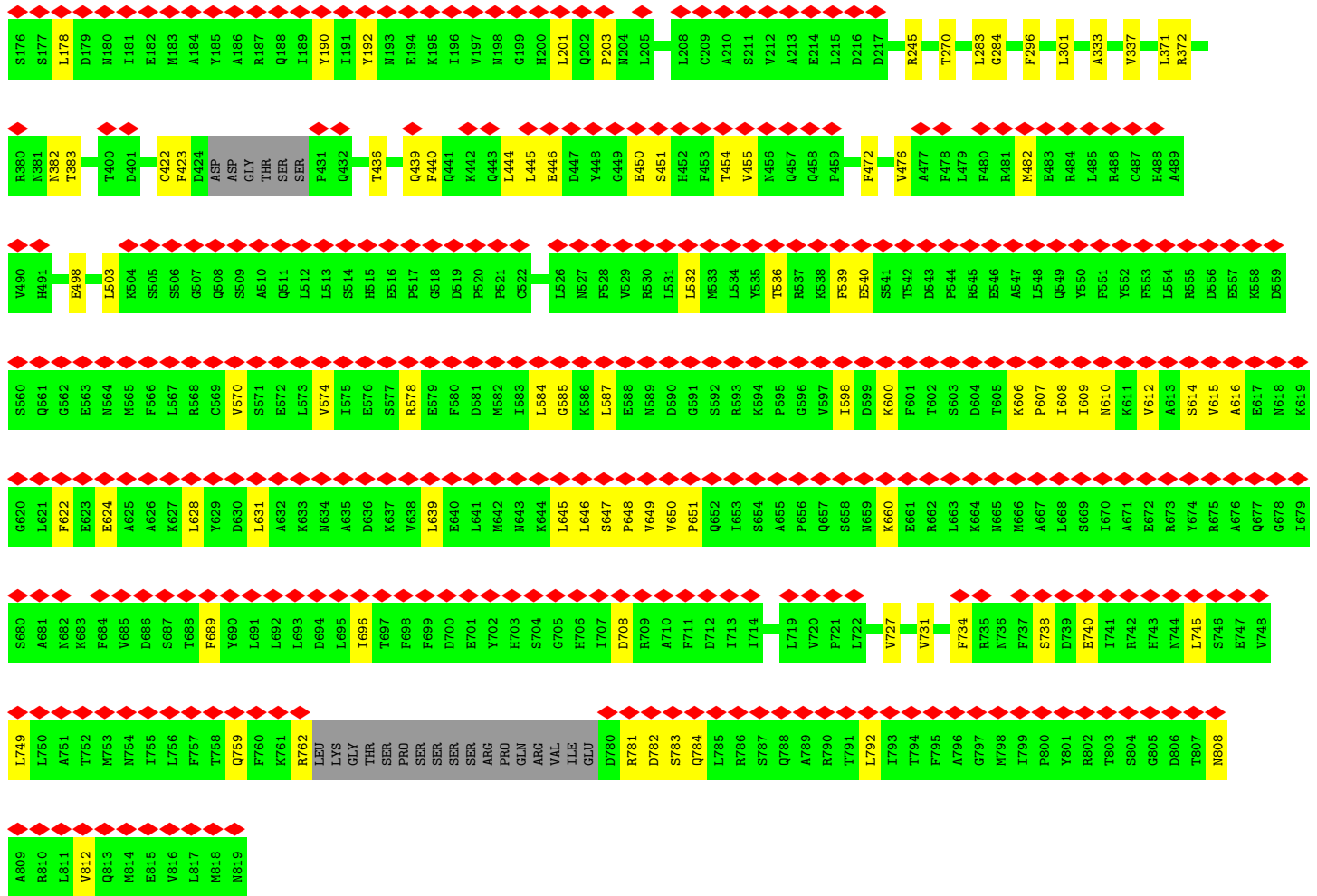
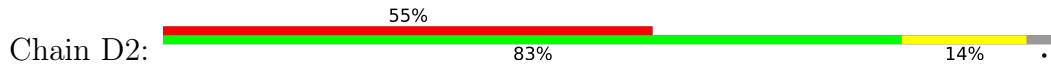


• Molecule 6: NUP93 SOL

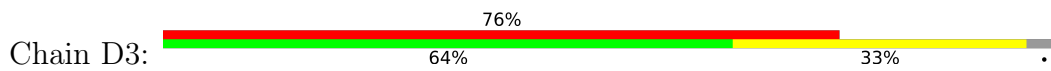




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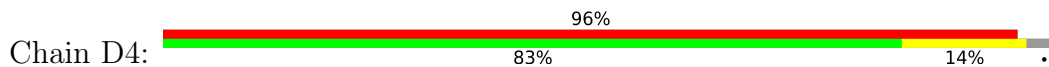


• Molecule 6: NUP93 SOL



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S438	Q439	F440	Q441	K442	Q443	L444	L445	E446	D447	Y448	G449	E450	S451	F452	F453	T454	V455	M456	Q457	Q458	F459	F460	L461	Y462	F463	Q464	V465	L466	F467	L468	C469	T469	A470	Q471	F472	E473	A474	A475	V476	M482	V492	A493	L494	V495	L496	F497	E498	L499	K500	L501	L502	L503	K504	H515	E516	P517	G518		
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ARG	VAL	ILE	GLU	D780	R781	D782	Q783	L784	L785	R786	S787	A788	R789	R790	T791	L792	I793	T794	F795	A796	G797	M798	L799	P800	R802	T803	S804	D806	T807	N808	A809	R810	L811	V812	Q813	N814	E815	V816	L817	N818	N819																		

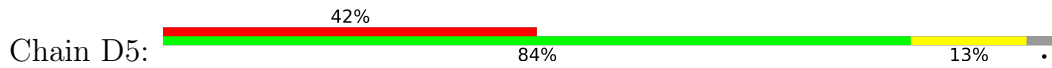
• Molecule 6: NUP93 SOL



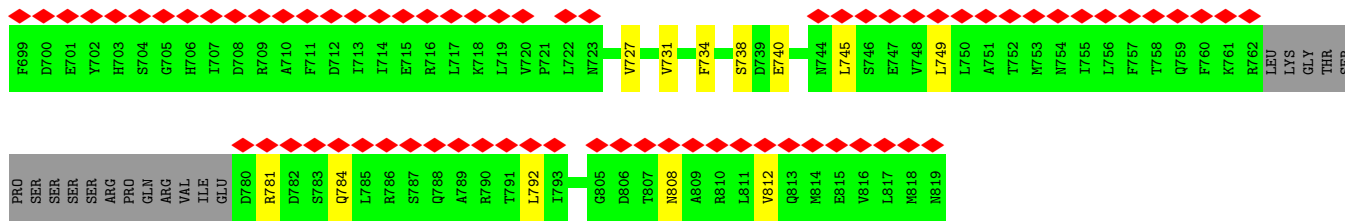
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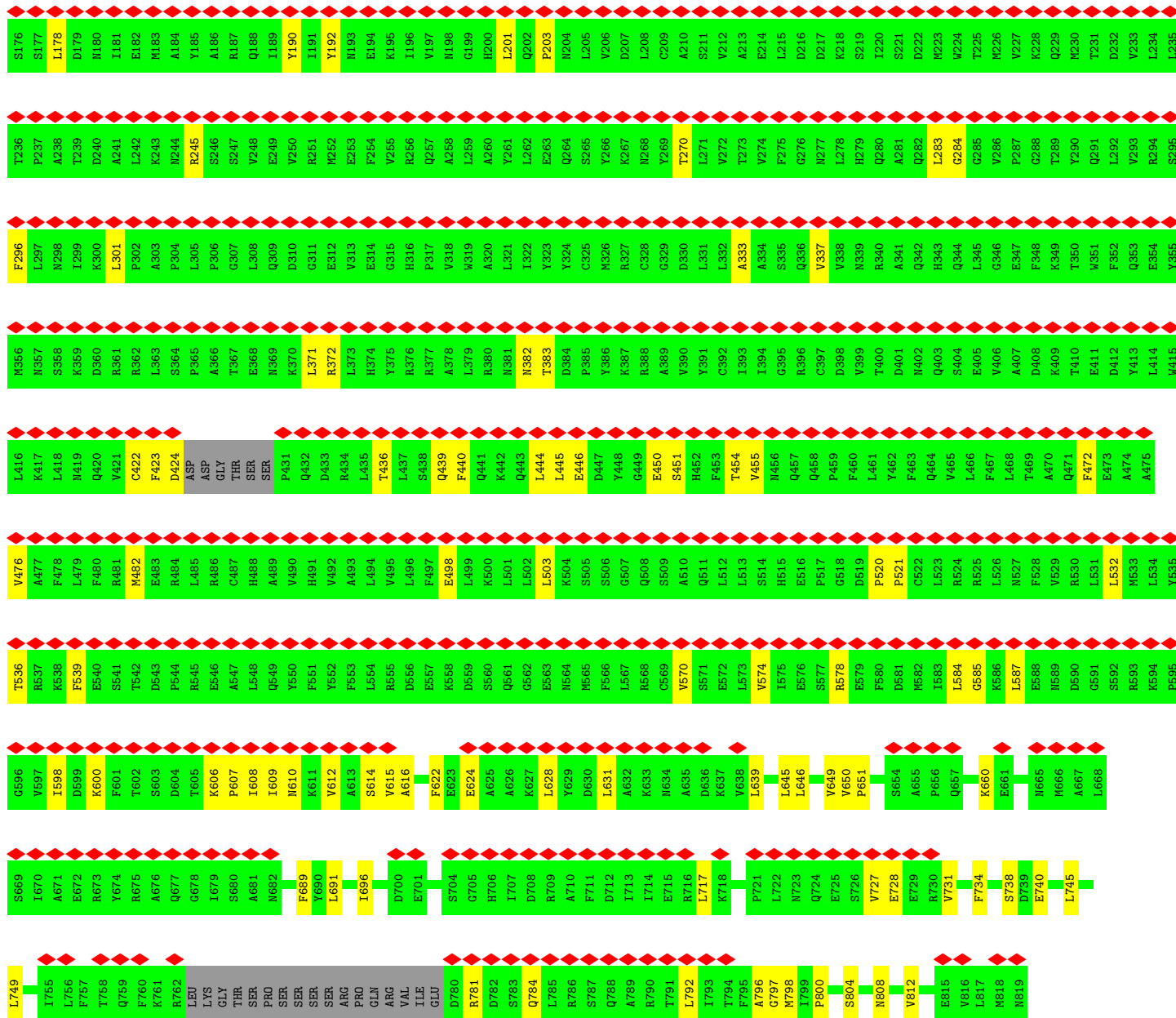
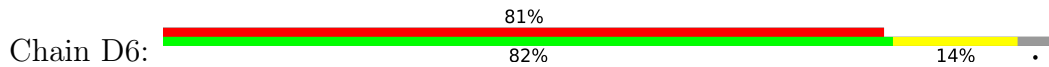
• Molecule 6: NUP93 SOL



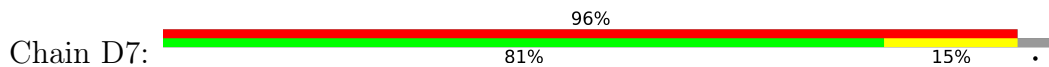
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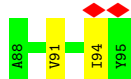
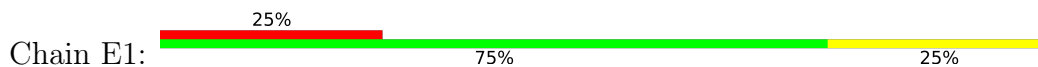


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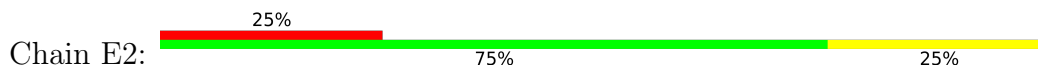


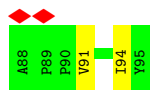
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• Molecule 7: NUP53 R2

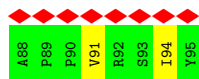
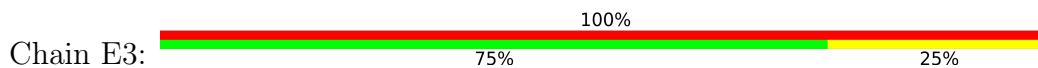


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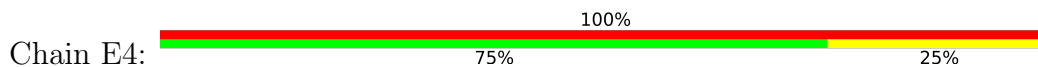




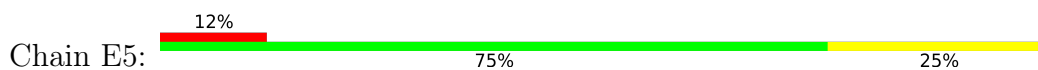
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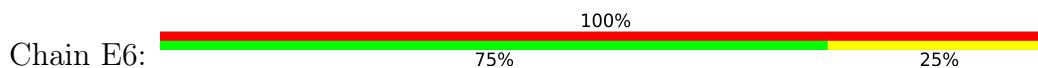
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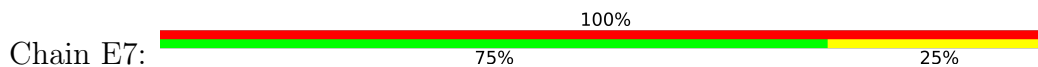
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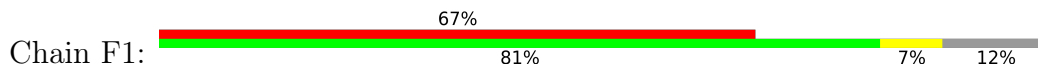
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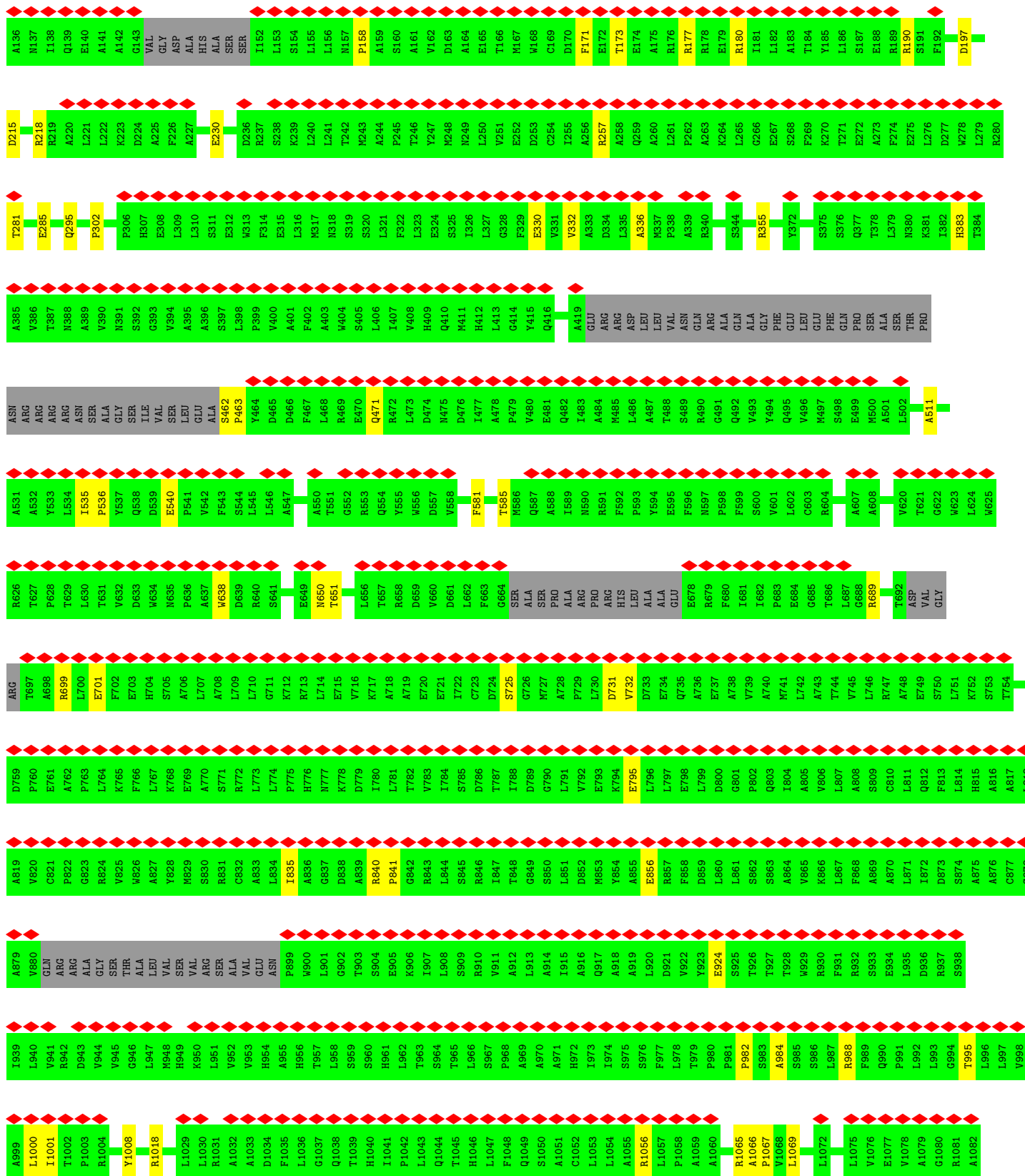


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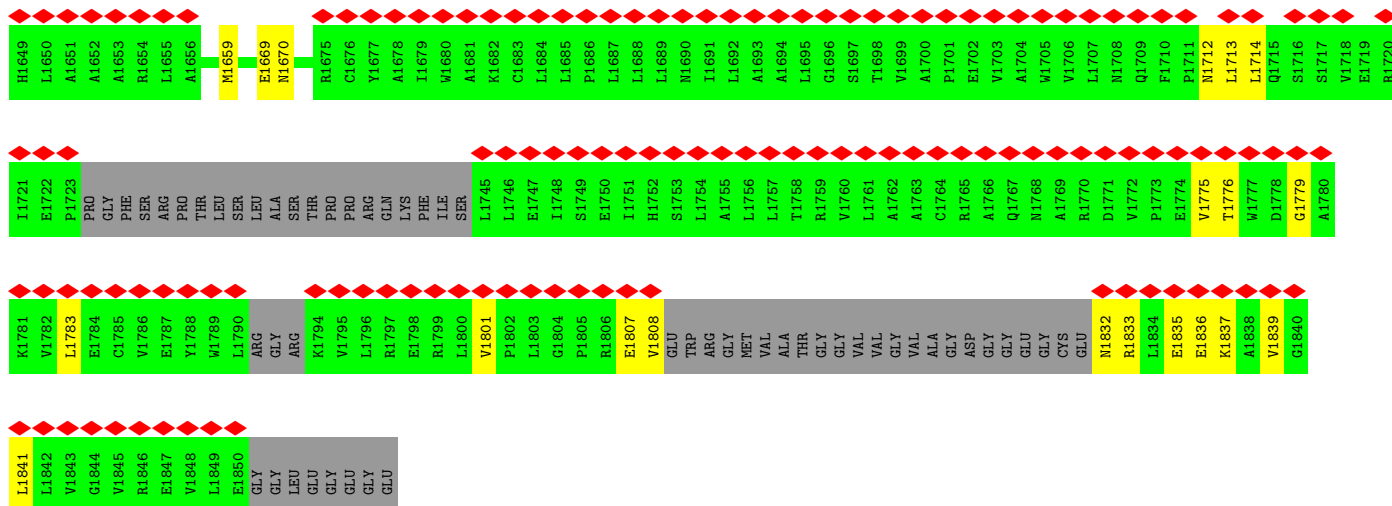
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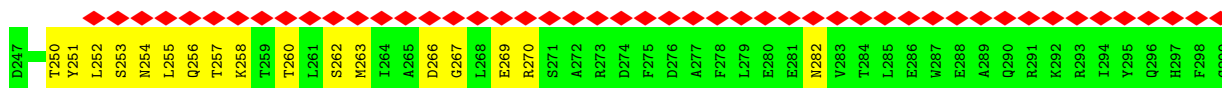
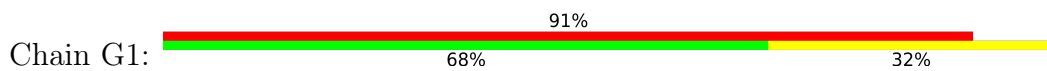


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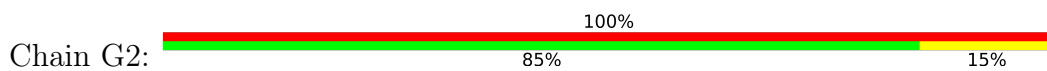
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GLN	ASN	S1354	M1474	A1414	S1354	M1294	M1234	A1174	F1114	L1054	Q990	A912	M853
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G1563	GLU	L1440	GLY	L1440	M1380	T1320	L1260	Q1200	A1140	G1080	G1010	V941	S878
I1564	THR	Q1441	THR	Q1441	E1381	M1321	M1261	L1201	G1141	A1081	A1016	R942	A879
E1565	ASN	R1442	ASN	R1442	L1382	V1322	H1262	Y1202	C1142	R1082	E1017	D943	V880
Q1566	ALA	L1443	V1505	L1443	L1383	L1323	M1263	W1203	L1143	ALA	R1018	V944	GLN
C1567	ALA	A1444	A1506	A1444	L1384	P1324	R1264	P1204	L1144	GLY	V1019	V945	ARG
Q1568	THR	D1445	I1507	D1445	L1385	R1325	Q1265	W1205	T1145	GLY	T1020	G946	ALA
V1569	THR	A1446	T1508	A1446	E1386	E1326	M1266	T1206	G1146	GLY	S1021	L947	GLY
L1570	ALA	M1447	Q1509	M1447	L1387	L1327	R1267	I1207	R1147	E1088	V1022	M948	THR
V1571	ALA	Q1448	Q1510	Q1448	L1388	G1328	Q1268	F1208	THR	P1089	L1023	H949	ALA
L1572	ALA	L1449	Q1511	L1449	L1389	K1329	A1269	A1209	PRO	GLY	A1024	K950	LEU
N1573	ALA	P1450	L1512	P1450	S1390	G1330	E1270	V1210	ARG	P1090	A1024	H951	VAL
L1574	ALA	R1451	L1513	R1451	L1391	Y1331	K1271	R1211	ALA	S1091	F1025	L952	SER
M1575	ALA	D1452	D1514	D1452	L1392	Y1332	F1272	K1212	ALA	L1092	C1026	V952	VAL
A1576	ALA	L1453	L1515	L1453	P1393	Y1333	A1273	E1213	LEU	L1093	T1027	V953	ARG
A1577	ALA	T1454	D1516	T1454	A1394	A1334	G1274	K1214	LYS	G1094	S1028	H954	SER
L1578	ALA	H1455	H1455	H1455	K1395	L1335	E1275	E1215	GLY	Y1095	L1029	A955	ALA
D1579	ALA	L1456	L1518	L1456	E1396	E1336	E1276	V1216	GLY	L1096	L1030	H956	VAL
V1580	ALA	L1457	V1519	L1457	N1397	V1337	V1277	V1217	GLU	G1097	R1031	T957	GLU
F1581	ALA	A1458	A1398	A1458	A1398	A1338	A1278	D1218	GLN	S1098	A1032	L958	ASN
V1582	ALA	L1459	A1399	L1459	A1399	E1339	D1279	L1219	LYS	S1098	A1032	S959	W900
V1583	ALA	V1460	F1400	V1460	F1400	Q1340	A1219	A1219	ILE	H1099	A1033	S960	L901
A1584	ALA	S1461	A1401	S1461	A1401	M1341	L1280	L1220	GLU	A1100	D1034	H961	G902
V1585	ALA	S1462	R1402	S1462	R1402	L1342	L1281	R1221	ARG	A1101	F1035	L962	T903
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L1587	ALA	I1464	V1404	I1464	V1404	F1344	L1284	V1224	ILE	H1099	T1044	S964	E905
A1588	ALA	H1465	L1405	H1465	L1405	D1345	R1285	R1225	GLU	A1100	T1045	T965	S967
A1588	ALA	V1467	A1406	V1467	A1406	G1347	E1286	L1226	ARG	A1101	L1047	L966	S967
		E1468	V1407	E1468	V1407	V1348	G1287	L1227	LYS	R1102	L1048	P968	K906



• Molecule 9: NUP93 R2



• Molecule 9: NUP93 R2



• Molecule 10: NUP98 R2



• Molecule 10: NUP98 R2



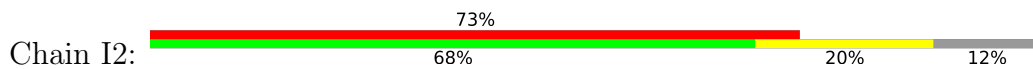
• Molecule 11: NUP205



M1	T2	D3	L4	R5	K6	L7	E8	A9	L10	Q11	A12	L13	H14	A15	E16	L17	V18	A19	V20	R21	Q22	H23	R24	F25	E26	G27	L28	Q29	V30	L31	E32	T33	L34	L36	E36	E37	Q38	T39	D40	A41	F42	K43	A44	L45	I46	A47	K48	P49	A50	R51	D52	T53	K54	D55	R56	E57	A58	K67					
I68	G69	E70	E71	E72	E77	E94	A106	E107	G108	T112	E128	R129	K130	Y131	L132	L133	D134	C135	M136	R137	L138	I139	L140	E141	I142	A143	L152	S155	F156	G157	V158	A159	A160	E161	D162	K163	I164	F165	G166	I167	P168	P169	P170	W171	E172	R173	ASN	LYS	GLU	ASN	GLN	PRO											
THR	Q181	V182	K183	F185	I186	P187	R188	C189	E190	E191	A192	M193	K194	W192	LEU	GLN	ALA	ALA	SER	LEU	VAL	ARG	PRO	L222	E237	Q238	H239	E240	C241	L242	A243	S244	I245	L246	H247	A248	A249	F263	L264	K265	L266	L267	R268	K269	W270	D271	K272	Y273	D274	H275	F276	L277	L278	H279	L280								
I281	P282	V283	L284	A285	I288	G292	L300	Q301	I310	C311	LYS	GLY	GLY	ASP	ASP	S316	W319	A320	A320	VAL	P322	V323	L324	G325	A326	A327	V328	R329	A330	W331	N352	L353	D354	E355	E356	D357	E358	Q359	R360	L362	Q363	F364	L365	L366	A367	L368	K369	E370	G371	A372	F373	D374	F375										
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L508	T527	N531	D535	E536	HIS	GLN	ALA	SER	GLY	LYS	MET	LYS	ARG	SER	Q548	S568	GLU	ARG	PRO	ASN	PRO	GLN	ALA	SER	MET	HIS	ARG	PRO	GLY	ARG	PRO	GLY	ASP	ALA	ALA	E590	I615	A616	R617	E624	N627	I640	R645	M656	I657																		
R658	K659	T660	H661	E662	E663	L664	D665	F679	SER	LEU	PRO	GLY	SER	GLY	ALA	PRO	GLN	ARG	ILE	SER	PHE	GLY	THR	P699	G700	P701	Q702	T714	E717	Q718	F722	L736	ASN	SER	LEU	N740	D741	S742	F746	E747	W748	L749	G750	S751	S752	I753	R754	T755															
D763	D767	N771	K774	S777	D778	P779	L797	W796	F800	G806	N812	I813	S814	I815	D817	A818	H819	A820	A821	T822	N823	A825	T826	V827	V828	R829	L830	H831	F832	S833	S834	R835	N837	E838	W839	F841	N842	E843	I846	L849	R850	N851	T852	I853	H854																		
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S926	H927	L928	S929	L930	V931	V932	D933	G935	K936	Y937	C938	N939	L940	G941	H942	L945	T946	A948	C949	L950	K951	L952	R953	E954	K955	P956	T958	S959	S960	R961	T962	L963	S964	A965	W966	S967	P968	ASP	SER	GLY	LEU	GLY	HIS	R976	N977	K978	L1029	A1031	P1032	P1033	D1034	Q1035	Q1036	E1037	I1038	A1039	H1040	Q1041	L1042	L1043	G1044	F1045	H1046
G987	E988	G989	E990	T991	I992	S993	A994	S995	L996	S997	A998	S999	I1000	M1001	A1002	T1003	L1004	D1005	P1006	A1007	L1008	A1009	A1010	S1011	G1012	E1013	N1014	Y1015	R1016	V1017	K1018	L1019	A1020	A965	W966	S967	P968	D1023	F1024	L1025	Y1026	A1027	C1028	L1029	A1031	P1032	P1033	D1034	Q1035	Q1036	T1037	I1038	A1039	H1040	Q1041	L1042	L1043	G1044	F1045	H1046			
C1047	E1048	L1049	S1050	K1051	L1052	G1053	I1054	E1055	P1056	K1057	G1058	P1059	F1060	D1061	M1062	Q1063	K1064	S1065	L1066	F1067	H1068	S1069	L1070	L1071	M1072	V1073	L1074	I1075	T1076	L1077	T1078	V1079	S1080	E1081	E1082	E1083	Q1084	G1085	M1086	R1087	G1088	Y1089	L1090	L1091	T1092	L1093	K1094	Y1095	Y1097	L1098	R1099	I1100	D1101	Q1102	L1103	L1104	W1105	K1106					
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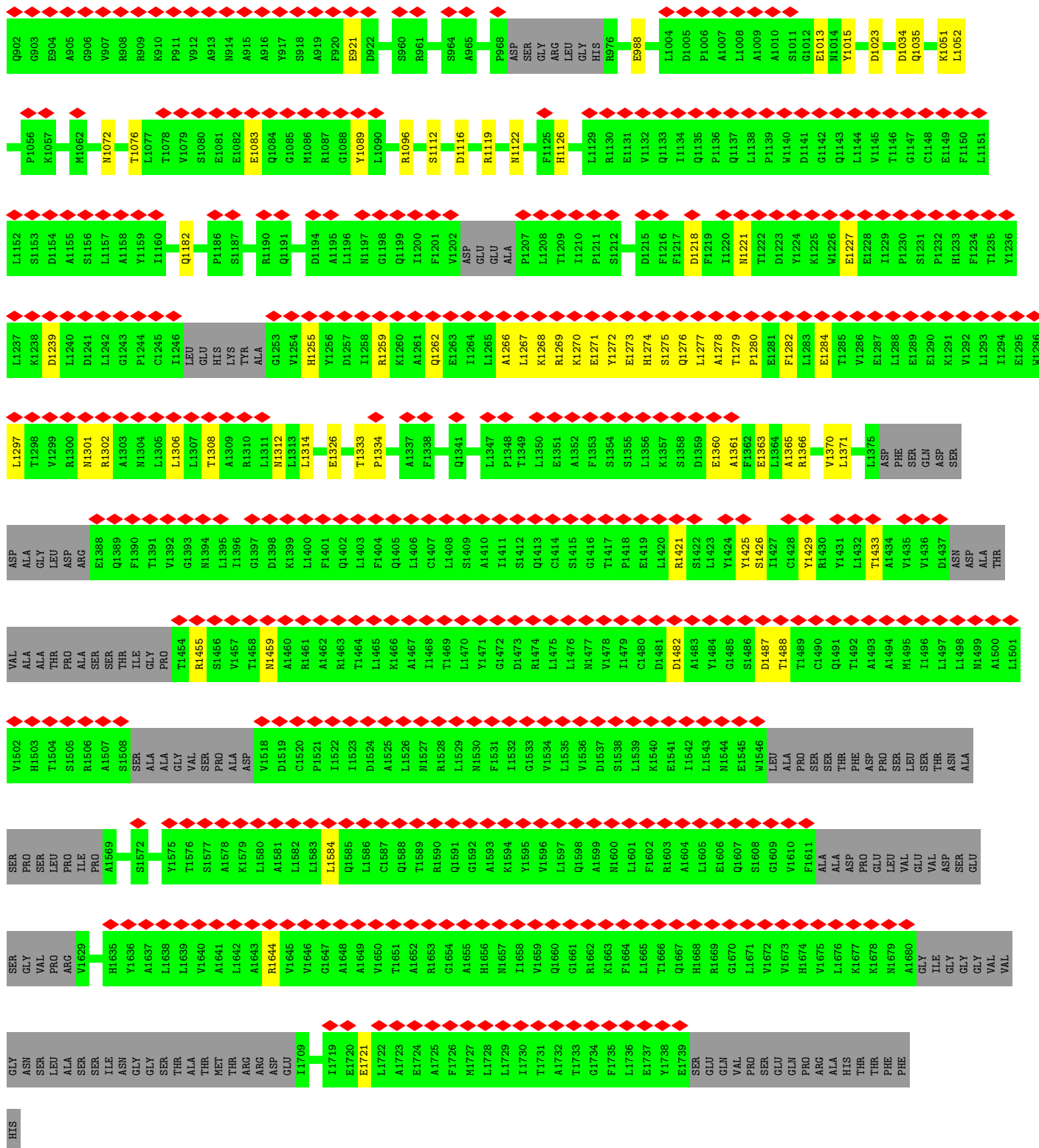
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V1367	A1368	K1369	V1370	L1371	L1372	W1373	K1374	L1375	ASP	PHE	SER	GLN	ASP	SER	VAL	ALA	LEU	ASP	E1388	Q1389	F1390	T1391	V1392	G1393	M1394	L1395	I1396	G1397	D1398	K1399	L1400	F1401	Q1402	L1403	F1404	Q1405	L1406	C1407	L1408	S1409	A1410	I1411	S1412	C1414	S1415	G1416	T1417	P1418	E1419	L1420	R1421	S1422	L423	Y1424	S1425																																																				
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D1487	T1488	T1489	C1490	Q1491	T1492	A1493	A1494	M1495	I1496	L1497	L1498	M1499	A1500	L1501	V1502	H1503	T1504	S1505	R1506	A1507	S1508	ALA	ALA	GLY	VAL	VAL	D1518	D1519	C1520	I1521	I1522	I1523	D1524	A1525	L1526	M1527	R1528	L1529	M1530	F1531	I1532	G1533	V1534	L1535	V1536	M1537	S1538	L1539	K1540	E1541	I1542	L1543	M1544	E1545	W1546																																																				
LEU	ALA	PRO	SER	THR	PHE	ASP	PRO	SER	LEU	THR	ASN	ALA	SER	PRO	SER	LEU	PRO	ILE	ALA	A1569	S1570	P1571	S1572	Q1573	Q1574	Y1575	T1576	S1577	A1578	K1579	L1580	A1581	L1582	L1583	L1584	Q1585	L1586	C1587	Q1588	T1589	Q1591	G1592	A1593	K1594	Y1595	V1596	L1597	Q1598	A1599	M1600	L1601	F1602	R1603	A1604	L1605	E1606																																																			
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E1735	L1736	E1737	Y1738	E1739	SER	GLU	GLN	VAL	VAL	PRO	PRO	GLN	PRO	ARG	ALA	HIS	THR	THR	PHE	PHE	HIS	V1735	V1736	A1737	L1738	E1739	H1740	A1741	L1742	A1743	E1744	E1745	E1746	E1747	E1748	E1749	E1750	E1751	E1752	E1753	E1754	E1755	E1756	E1757	E1758	E1759	E1760	E1761	E1762	E1763	E1764	E1765	E1766	E1767	E1768	E1769	E1770	E1771	E1772	E1773	E1774	E1775	E1776	E1777	E1778	E1779	E1780	E1781	E1782	E1783	E1784	E1785	E1786	E1787	E1788	E1789	E1790	E1791	E1792	E1793	E1794	E1795	E1796	E1797	E1798	E1799	E1800	E1801	E1802	E1803	E1804	E1805	E1806	E1807	E1808	E1809	E1810	E1811	E1812	E1813	E1814	E1815	E1816	E1817	E1818	E1819	E1820

• Molecule 11: NUP205



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R61	E62	P63	K64	R65	L66	R67	L68	G69	E70	E71	E72	T73	S74	L75	H76	E77	D78	F79	W80	R81	D82	C83	L84	R85	L86	A87	D88	E89	L90	D91	L92	H93	E94	R95	E96	S97	Q98	R99	I100	L101	I102	D103	C104	D105	A106	E107	G108	P49	V110	E111	D52	T53	K54	D55	R56	E57	A58	L59	C60

V806	SER	P678	K618	E558	Q498	M436	I376	Q301	C241	Q181	G121	R61	M1
L807	LEU	F679	R619	L659	W499	L437	L377	Q302	L242	V182	V122	E62	T2
G808	SER	N740	L620	E560	A500	P438	S378	Q303	A243	K183	I123	F63	D3
H809	SER	D741	I621	Y661	S601	D439	V379	R304	S244	K184	R124	K64	L4
E810	LEU	S742	M622	F662	R502	V440	A380	R305	I245	F186	H126	K65	R5
S811	GLY	D623	D623	T663	R503	L441	A381	L306	L246	I186	H127	K66	K6
N812	SER	P744	E624	T664	A504	R442	D382	F309	H247	P187	E128	K67	L7
I813	GLY	F745	D625	K665	S605	K443	C383	I310	A248	R188	E129	T68	E8
S814	ALA	P746	F626	V666	T606	L444	K384	C311	A249	C189	R129	E69	A9
L815	ALA	E747	N627	V667	P607	R445	A385	LYS	V250	M190	K130	E70	L10
D816	GLM	W748	L628	G568	L508	T446	Q386	GLY	Q251	E191	Y131	E71	Q11
D817	GLM	W749	V629	ARG	V609	E447	E387	GLY	R252	A192	L132	E72	A12
A818	ILE	L748	D630	PRO	S510	E448	W388	GLY	H253	M193	L133	Y73	L13
M819	PHE	G750	T631	ASN	A511	D449	D390	ASP	H254	K194	D134	S74	H14
A820	LEU	S752	I632	PRO	F512	E450	P391	ASP	A255	G195	C135	L75	A15
A821	GLY	I753	L633	PRO	C513	Q451	R392	ASP	T256	V196	M136	N76	E16
A822	GLM	G754	L634	GLM	E514	R452	S392	S318	I257	R197	L137	E77	L17
T823	THR	R754	K634	ALA	M515	Q453	Q393	L324	A258	S198	L138	D78	V18
N823	P699	T755	L635	SER	L516	Q456	L394	A327	D259	M199	I139	F79	A19
N824	G700	L756	S636	MET	R517	P456	L396	V328	F260	L200	L140	N80	V20
A825	G701	P701	V637	HIS	C518	E459	A396	R329	Q261	Q201	E141	N81	R21
T826	ARG	Q702	G638	PRO	L519	E460	R397	A330	D262	C202	I142	D82	Q22
Y827	GLY	E703	V639	ARG	E520	Q461	Q398	W331	F263	M203	A143	C83	H23
V828	PRO	C704	I640	PRO	D521	D461	W399	W332	I264	A204	A144	L84	R24
R829	PRO	M705	P641	GLY	N522	M462	W399	I333	K265	D205	D145	R85	F25
L830	GLY	E706	H642	ALA	E523	D463	L400	A334	I266	K206	E146	R86	F26
L831	ALA	M707	R643	ASP	E524	L464	Q401	E335	K266	A207	D147	A87	E26
F764	ALA	M708	L644	PRO	E524	E465	R402	H336	L267	A207	D147	A87	G27
F765	ALA	M708	R645	ALA	C525	R466	K403	N337	R268	N208	I148	D88	L28
F766	ALA	F709	A646	ALA	E526	F467	I404	N337	K269	A209	D149	E89	Q29
D767	ALA	R710	C647	ALA	TE27	L468	P405	G338	W270	R210	A150	L90	V30
V768	ALA	E711	C647	ALA	A528	L468	S406	F339	D271	N211	G151	D91	L31
F769	ALA	F712	I648	ALA	A529	I469	L407	Y340	K272	M212	L152	L92	E32
G713	ALA	F713	F649	ALA	A529	I469	L407	Y340	Y273	LEU	Q153	N93	T33
A770	ALA	T714	Y650	ALA	H530	I470	P408	D342	D274	GLN	E154	E94	L34
G715	ALA	G715	Y651	ALA	NE31	I471	S409	D342	H275	GLN	E154	K95	L35
F716	ALA	F716	L652	ALA	F532	S472	P411	D343	F276	ALA	S155	E96	E36
E717	ALA	E717	K653	ALA	L533	Y473	F412	V345	L277	SER	F156	S97	E37
Q718	ALA	Q718	L534	ALA	L534	A474	F413	Q346	L278	LEU	G157	E98	Q38
S719	ALA	S719	E535	ALA	D635	Y475	F414	Q346	I278	VAL	V158	A98	T39
N720	ALA	N720	E536	ALA	E536	E476	S415	D347	H279	ARG	A159	A99	T39
A721	ALA	A721	GLY	ALA	GLY	C477	H416	N352	L280	PRO	A160	I100	D40
F722	ALA	F722	HIS	ALA	HIS	R478	F417	L353	L222	D223	E161	I101	A41
I723	ALA	I723	L603	ALA	GLM	P479	L418	D354	D223	D223	E161	I101	A41
Q724	SER	Q724	ALA	SER	ALA	P479	L418	E355	P282	N224	D162	I102	F42
L725	SER	L725	SER	GLY	SER	D480	Q419	D357	Q225	Q225	K163	D103	K43
L726	LYS	L726	GLY	LYS	GLY	A481	H420	D357	L284	E226	I164	C104	A44
T727	LYS	T727	LYS	LYS	LYS	A482	S421	R360	A285	T227	F165	D105	L45
T728	ARG	T728	ARG	ARG	MET	M483	L422	F364	A286	L228	G166	A106	L46
L729	ARG	L729	F485	ARG	ARG	S484	M423	L368	Y287	D229	I167	E107	A47
L730	ARG	L730	F485	SER	SER	F485	V424	L368	T288	F230	G108	G108	K48
V731	ALA	V731	Q448	ALA	Q448	W486	H425	L368	T289	P169	P169	D109	P49
P732	ALA	P732	S549	ALA	S549	E487	L426	G371	E289	P170	P170	V110	A50
P733	ALA	P733	L550	ALA	L550	E487	E427	G371	E290	R232	R232	E111	R51
W668	ALA	W668	D488	ALA	D488	E488	G428	F373	F291	L233	W171	T112	D52
R669	ALA	R669	T551	ALA	T551	P489	F429	F373	Q292	S234	E172	T112	T53
W670	ALA	W670	W552	ALA	W552	D490	F429	D374	S293	S234	R173	Q114	T53
I615	ALA	I615	V430	ALA	V430	S491	V430	F375	S293	L236	ASN	Q114	K54
A616	ALA	A616	D431	ALA	D431	M492	D431	F375	P294	E237	LYS	Q114	D55
R617	ALA	R617	Q554	ALA	Q554	M492	D431	F375	E295	Q238	GLU	R115	R56
E672	ALA	E672	I555	ALA	I555	L493	A452	F556	Q296	Q238	ASN	P116	E57
A673	ALA	A673	F556	ALA	F556	L493	T433	F556	G297	E240	GLN	L117	E57
W674	ALA	W674	I434	ALA	I434	G495	I434	F496	G297	E240	THR	W118	A58
T676	ALA	T676	S435	ALA	S435	F496	L497	L497	D299	L300		E119	L59
N677	ALA	N677	L497	ALA	L497	L497	L497	L497	L300			C120	Q60

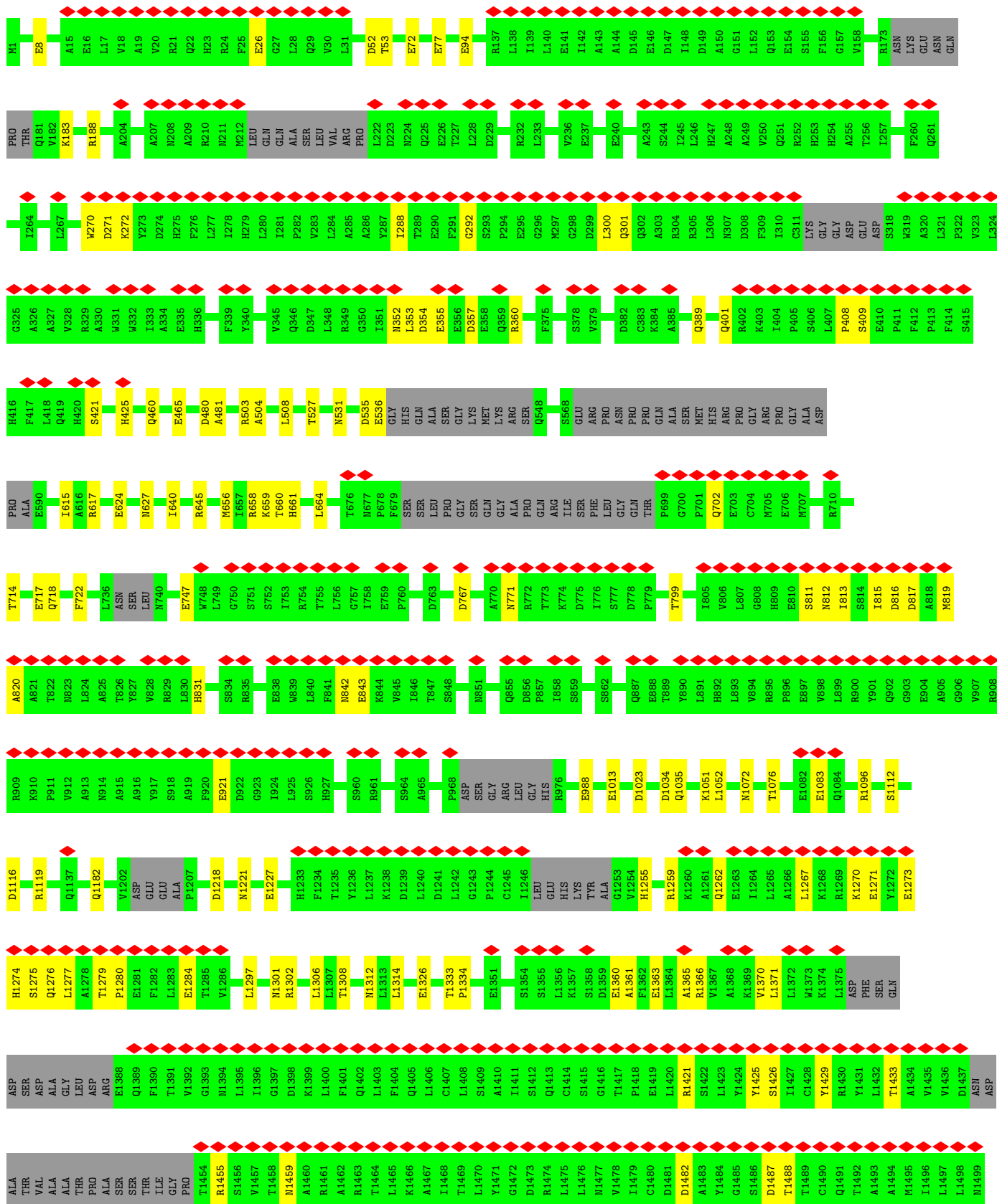


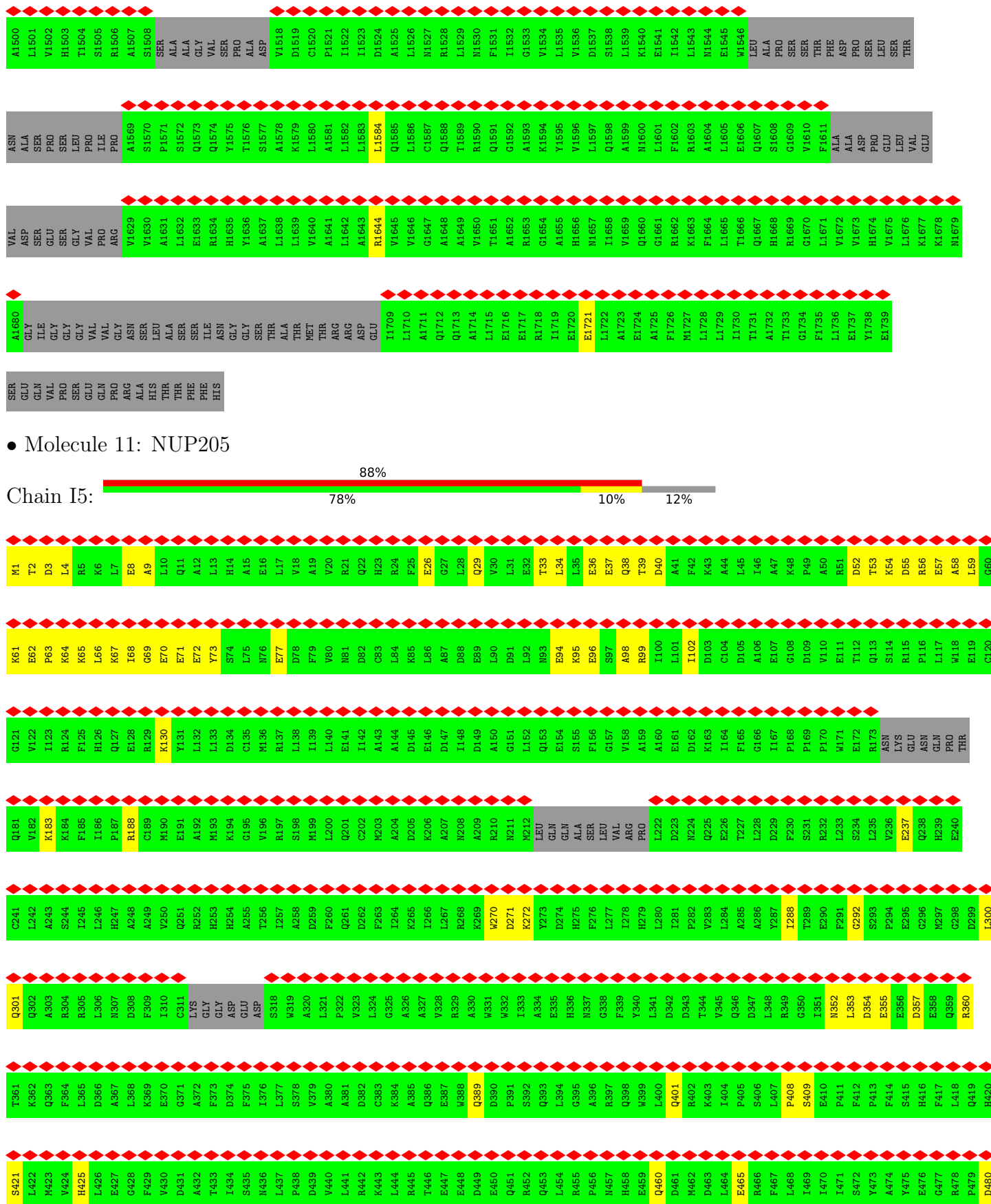
• Molecule 11: NUP205

35%

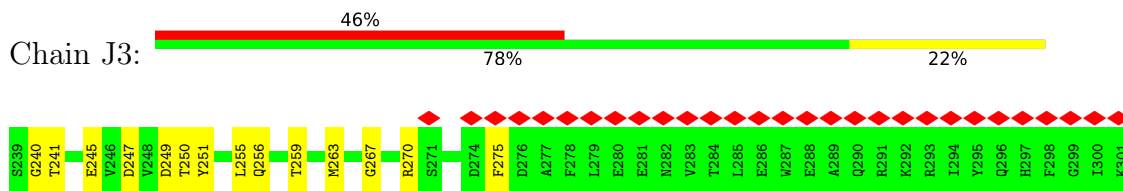
Chain I4:



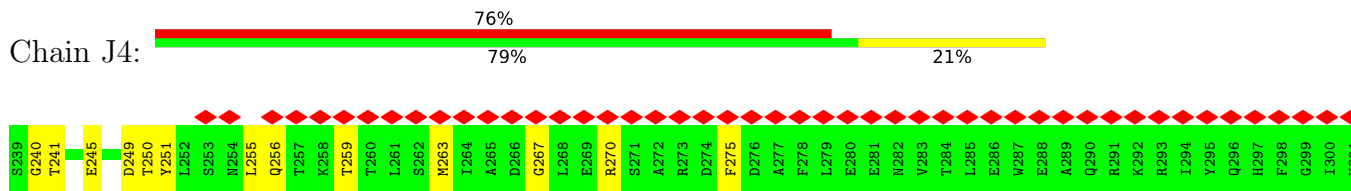




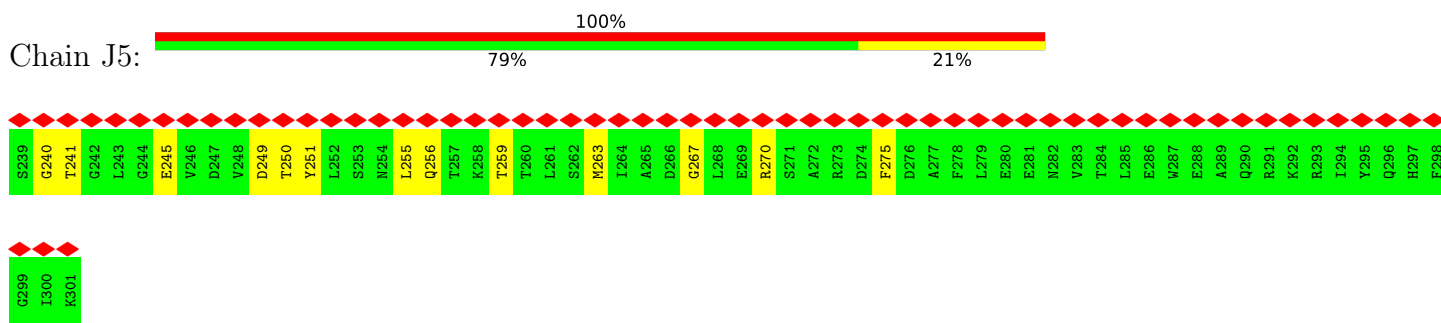
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D1141	G1142	Q1143	L1144	V1145	T1146	G1147	C1148	E1149	F1150	L1151	L1152	S1153	D1154	A1155	S1156	L1157	A1158	Y1159	I1160	D1161	L1162	L1163	A1164	S1165	R1166	A1167	A1168	I1169	F1170	E1171	Y1172	I1173	L1174	K1175	E1176	L1177	C1178	S1179	V1180	S1181	Q1182	M1183	R1184	I1185	P1186	S1187	I1188	K1189	R1190	Q1191	I1192	F1193	D1194	A1195	L1196	M1197	G1198	Q1199	I1200			
E1081	E1082	E1083	Q1084	G1085	M1086	R1087	G1088	Y1089	L1090	V1091	T1092	L1093	K1094	Y1095	R1096	V1097	L1098	R1099	I1100	L1101	Q1102	L1103	L1104	W1105	K1106	S1107	P1108	L1109	S1110	A1111	S1112	L1113	L1114	L996	M1115	D1116	E1117	L1118	R1119	A1120	T1121	M1122	F1123	L1124	F1125	H1126	M1127	L1128	L1129	R1130	E1131	V1132	Q1133	L1134	Q1135	P1136	Q1137	L1138	P1139	W1140		
E081	E082	E083	Q084	G085	M086	R087	G088	Y089	L090	V091	T092	L093	K094	Y095	R096	V097	L098	R099	I090	L091	Q092	L093	L094	W095	K096	S097	P098	L099	S100	A101	S102	L103	L104	L996	M105	D106	E107	L108	R109	A110	T101	M102	F103	L104	F105	H106	M107	L108	L109	R110	E111	V112	Q113	L114	Q115	P116	Q117	L118	P119	W120		
R961	I962	L963	S964	A965	W966	S967	P968	ASP	SER	GLY	ARG	LEU	GLY	HIS	R976	N977	K978	A979	I980	R981	Q982	L983	E984	R985	N986	G987	E988	G989	E990	T991	I992	S993	A994	S995	L996	S997	S998	S999	I1000	M1001	A1002	T1003	L1004	D1005	P1006	A1007	L1008	A1009	A1010	C949	L950	K951	L952	L953	E954	R955	V1017	K1018	L1019	A1020	S960	
R841	W842	E843	K844	W845	T846	S848	L849	R850	M851	T852	L853	H854	Q855	D856	P857	L858	S859	L860	G861	S862	A863	S864	P865	D866	S867	P868	L869	W870	V871	S872	L873	L874	R875	A876	I877	Q878	W879	M880	L881	K882	A883	L884	E885	L886	Q887	E888	T889	W890	L891	H892	L893	W894	R895	P896	E897	W898	L899	R900				
Q781	L782	R783	L784	L785	R786	L787	S788	C789	L790	D791	F792	W793	M794	V795	C796	L797	W798	T799	F900	N901	E902	D903	L904	I905	W906	L907	G908	H909	E910	S911	N912	L913	S914	L915	D916	D917	A918	M919	A920	A921	T922	N923	L924	A925	L926	Y927	V928	R929	L930	H931	P932	F933	S934	D935	W936	M937	E938	W939	L940			
H661	E662	E663	L664	D665	A666	W668	R669	W670	V671	E672	A673	I674	M675	T676	M677	P678	F679	SER	LEU	P80	GLY	SER	GLN	ALA	P80	GLN	M627	L628	V629	I630	PHE	LEU	GLY	GLY	THR	P699	G700	Q702	E703	C704	M705	E706	M707	W708	F709	R710	E711	G713	T714	G715	F716	E717	Q718	S719	N720							
H661	E662	E663	L664	D665	A666	W668	R669	W670	V671	E672	A673	I674	M675	T676	M677	P678	F679	SER	LEU	P80	GLY	SER	GLN	ALA	P80	GLN	M627	L628	V629	I630	PHE	LEU	GLY	GLY	THR	P699	G700	Q702	E703	C704	M705	E706	M707	W708	F709	R710	E711	G713	T714	G715	F716	E717	Q718	S719	N720							
A481	A482	M483	S484	F485	W486	E487	D488	P489	D490	S491	N492	L493	A494	G495	F496	L497	Q498	W499	A500	S501	R502	R503	A504	S505	T506	P507	L508	V509	S510	A511	F512	C513	E514	M515	L516	R517	C518	L519	A520	D521	N522	E523	E524	C525	A526	T527	A528	A529	H530	M531	F532	L533	L534	D535	E536	GLY	HIS	GLN	ALA			
SER	GLY	LYS	MET	LYS	ARG	SER	Q548	S549	L550	T551	W552	S553	Q554	I555	F556	K557	E558	L559	E560	Y561	F562	T563	T564	K565	V566	C567	S568	GLU	ARG	P80	ASN	PRO	PHE	PRO	GLY	GLM	ALA	SER	THR	HIS	ARG	PRO	GLY	ARG	PRO	GLY	ALA	ASP	PRO	PRO	ALA	E590	I591	E592	P593	E594	S595	A596	H597	M598	L599	E600
C601	Y602	L603	R604	L605	I606	A607	K608	L609	A610	T611	E612	S613	E614	I615	A616	R617	K618	R619	L620	I621	M622	D623	E624	D625	GLY	F626	M627	L628	V629	I630	PHE	LEU	GLY	GLY	THR	P699	G700	Q702	E703	C704	M705	E706	M707	W708	F709	R710	E711	G713	T714	G715	F716	E717	Q718	S719	N720							
A721	F722	I723	Q724	L725	L726	T727	T728	L729	L730	V731	P732	F733	E734	G735	L736	ASN	SER	LEU	N740	D741	S742	P743	F744	F745	P746	E747	W748	L749	G750	S751	S752	I753	R754	T755	L756	G757	I758	E759	F760	Y761	V762	D763	F764	V765	F766	D767	V768	F769	A770	M771	R772	T773	K774	D775	I776	S777	D778	F779	S780			



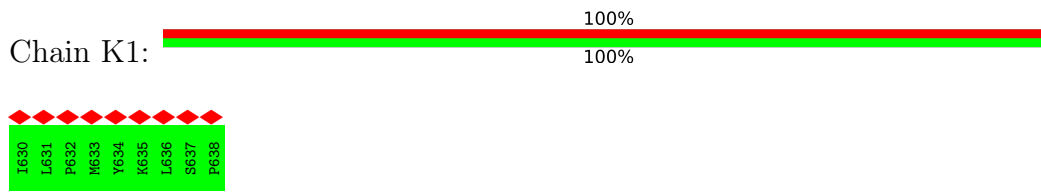
• Molecule 12: NUP93 R2



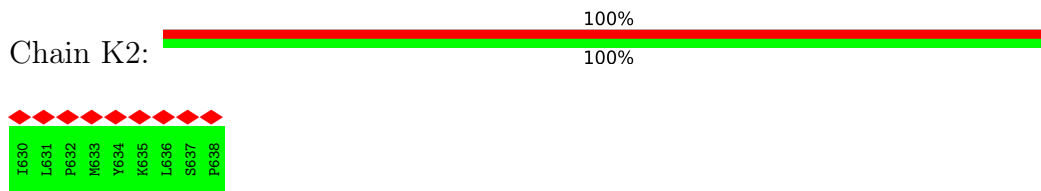
• Molecule 12: NUP93 R2



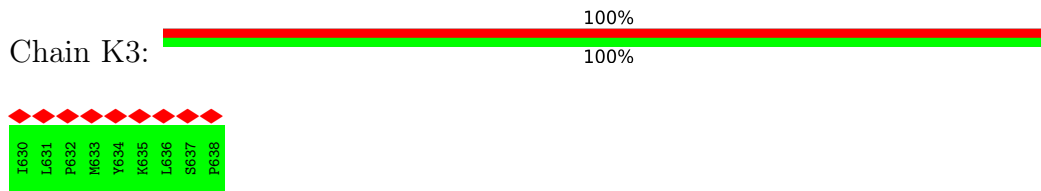
• Molecule 13: NUP98 R1



• Molecule 13: NUP98 R1



• Molecule 13: NUP98 R1

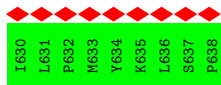


• Molecule 13: NUP98 R1



There are no outlier residues recorded for this chain.

- Molecule 13: NUP98 R1



- Molecule 14: NUP53 R1



There are no outlier residues recorded for this chain.

- Molecule 14: NUP53 R1



- Molecule 14: NUP53 R1



- Molecule 14: NUP53 R1

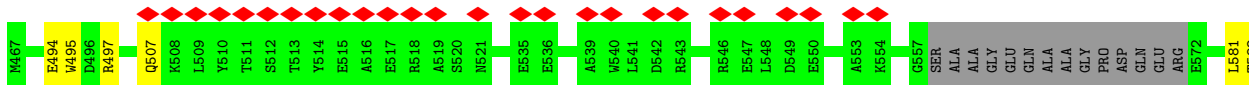
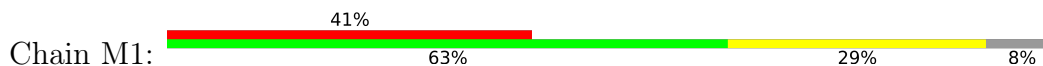


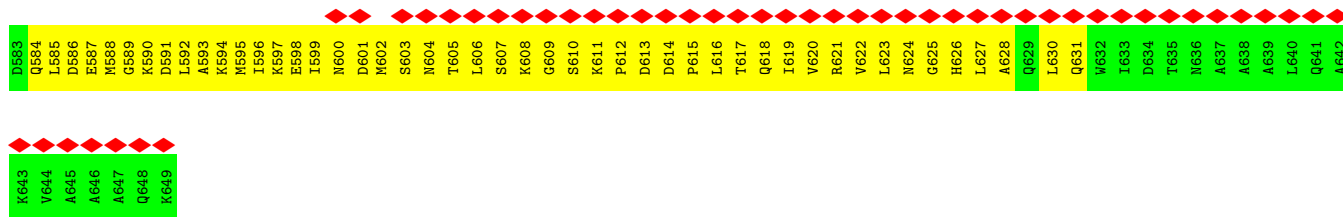
There are no outlier residues recorded for this chain.

- Molecule 14: NUP53 R1

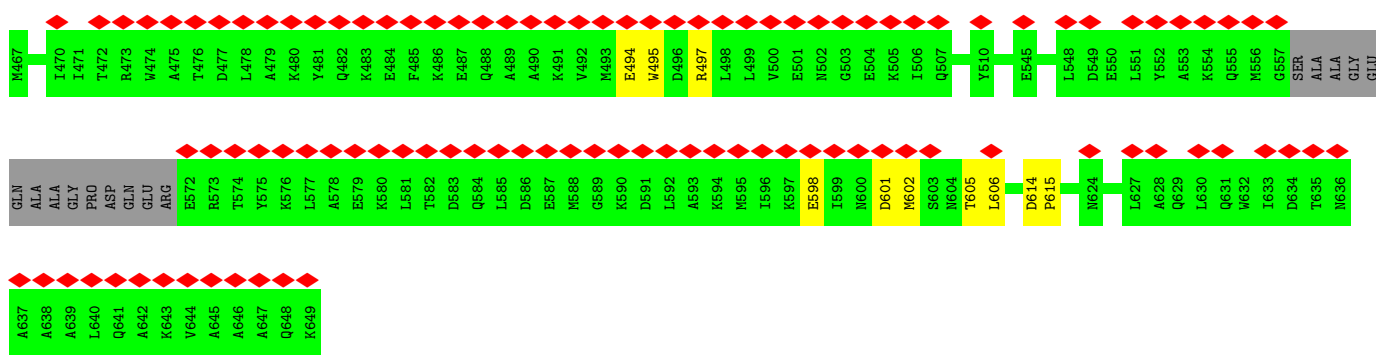
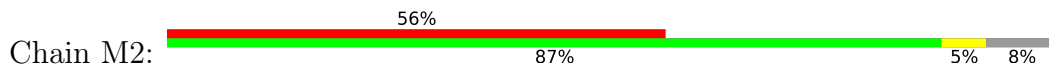


- Molecule 15: NUP62

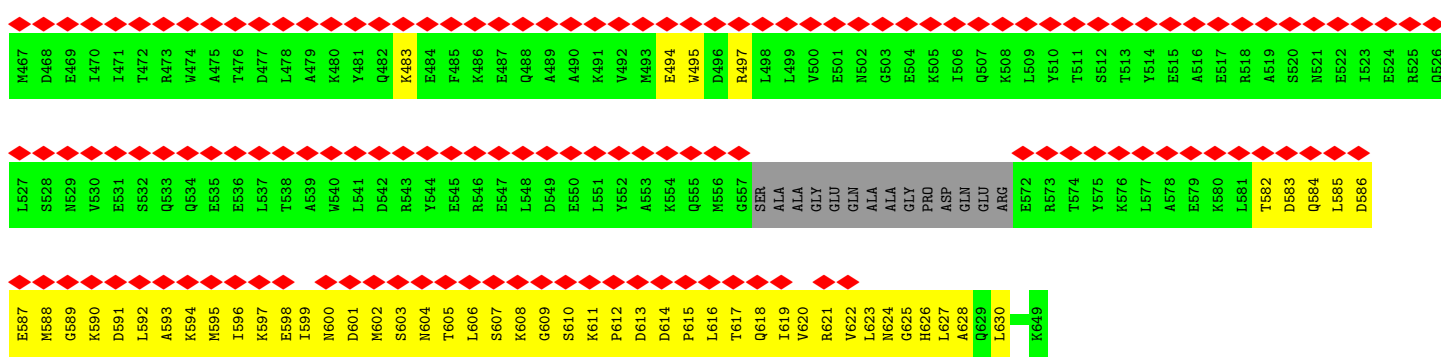
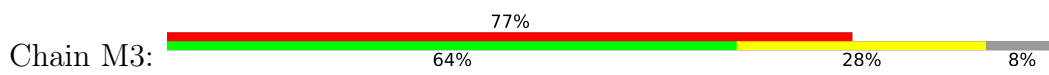




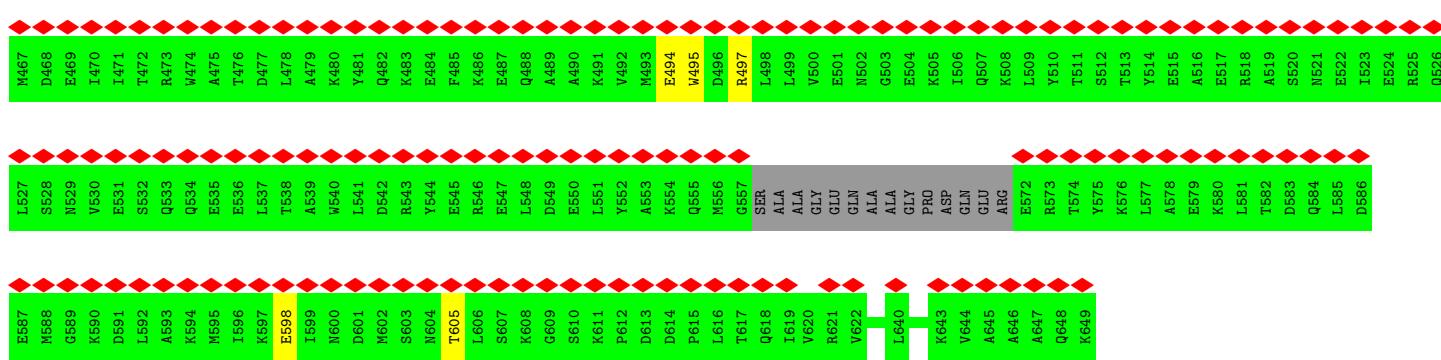
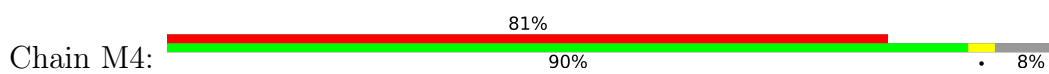
• Molecule 15: NUP62



• Molecule 15: NUP62



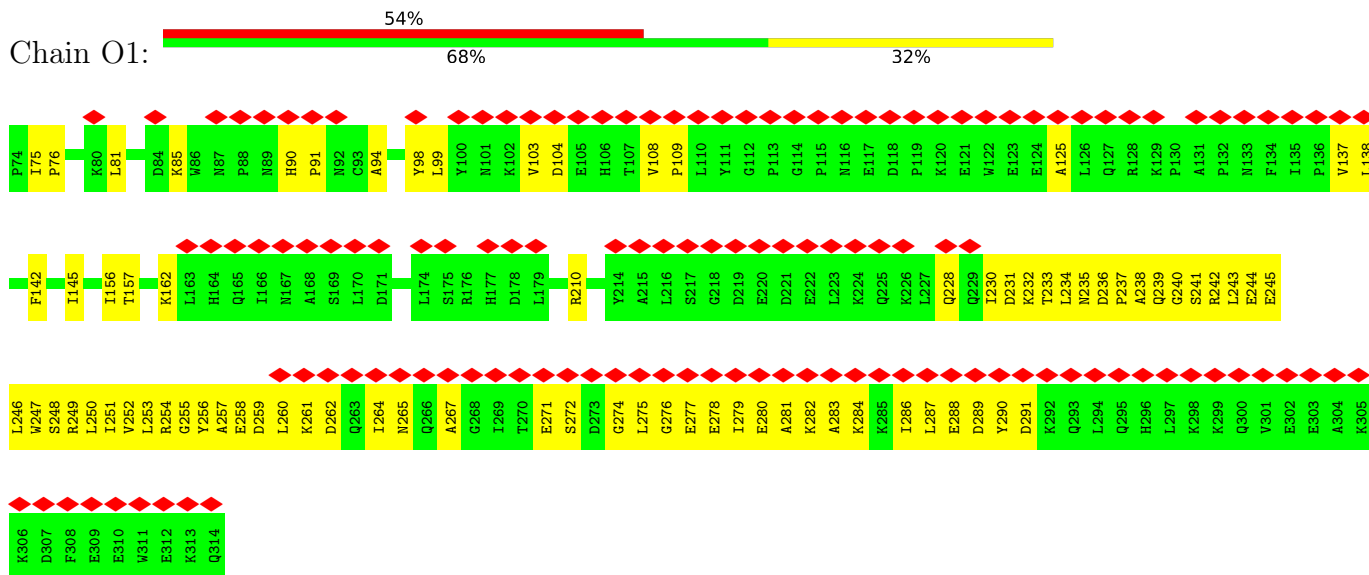
• Molecule 15: NUP62





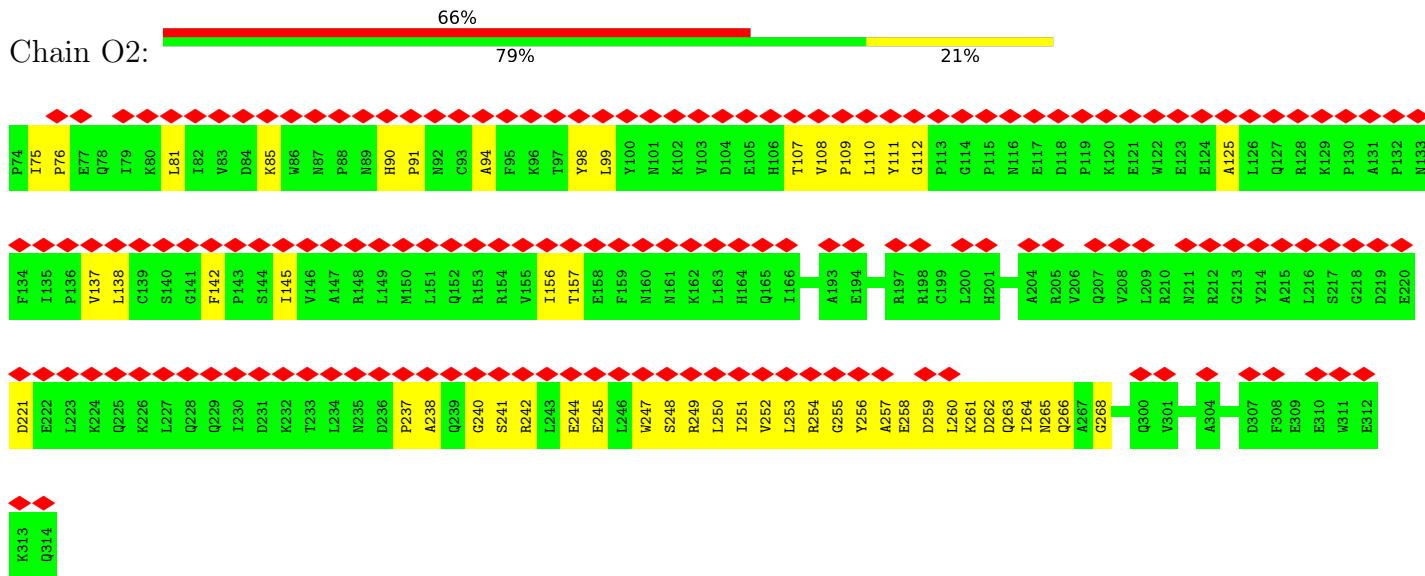
• Molecule 17: NUP54

Chain O1:

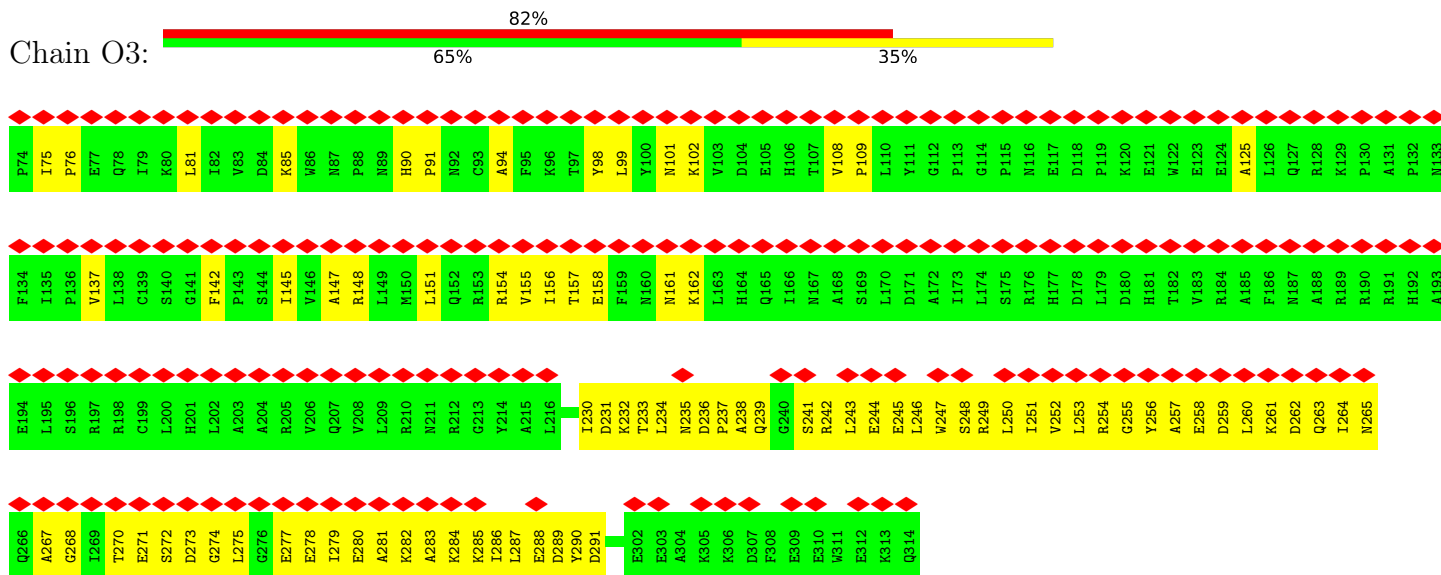


• Molecule 17: NUP54

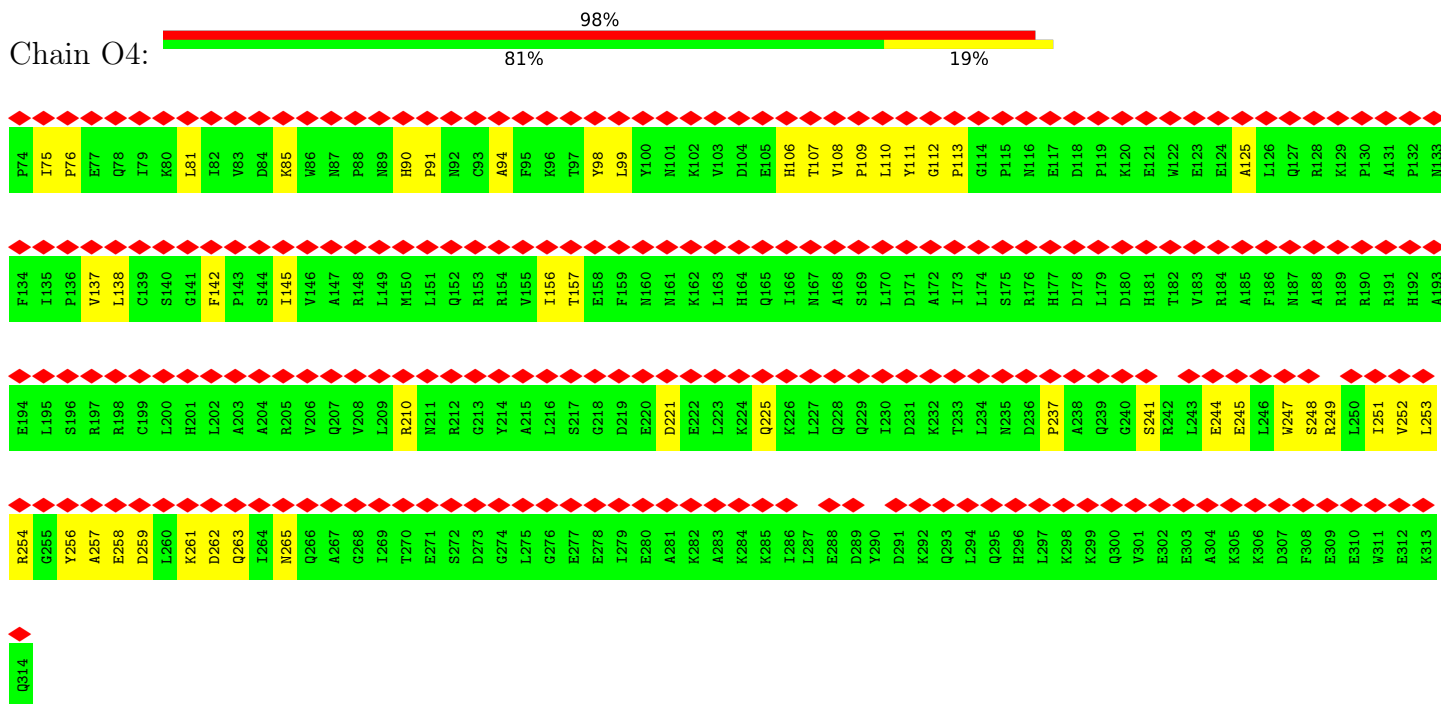
Chain O2:



• Molecule 17: NUP54



• Molecule 17: NUP54



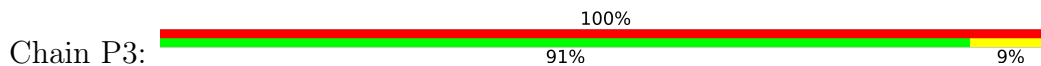
• Molecule 18: NUP54 Ferredoxin-like domain



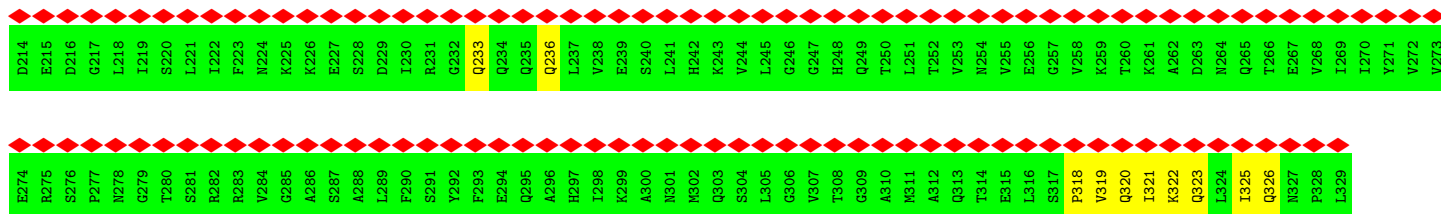
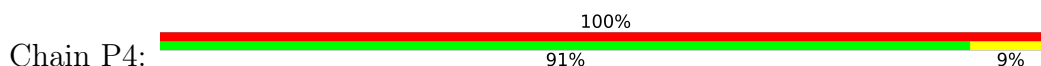
• Molecule 18: NUP54 Ferredoxin-like domain



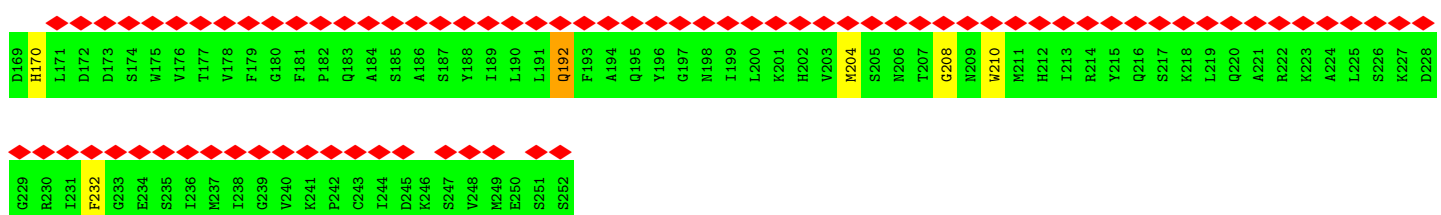
• Molecule 18: NUP54 Ferredoxin-like domain



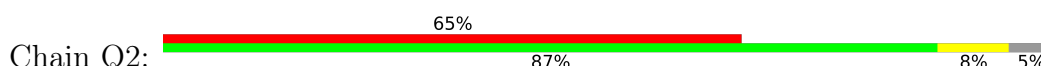
• Molecule 18: NUP54 Ferredoxin-like domain



• Molecule 19: NUP53 RRM

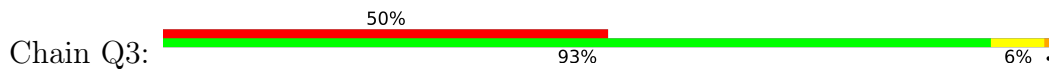


• Molecule 19: NUP53 RRM

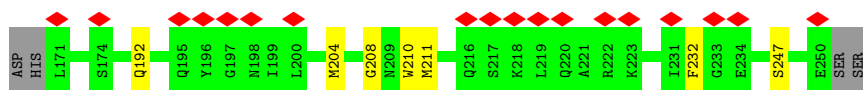
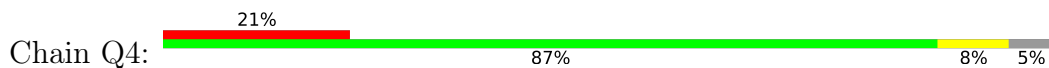




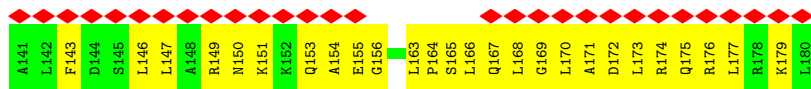
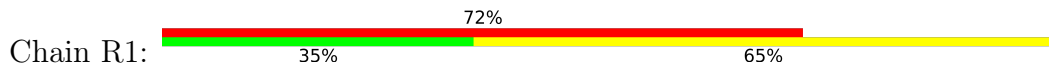
• Molecule 19: NUP53 RRM



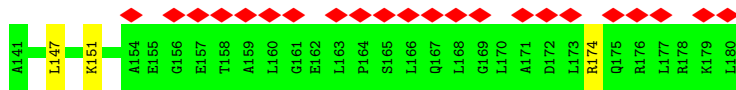
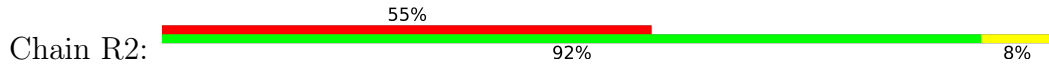
• Molecule 19: NUP53 RRM



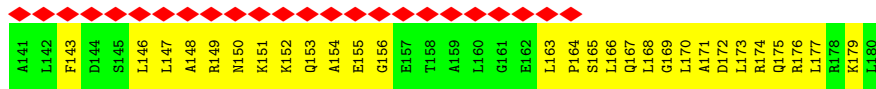
• Molecule 20: NUP93 R1



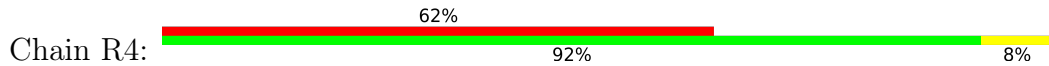
• Molecule 20: NUP93 R1

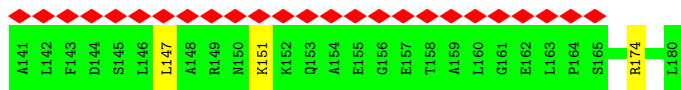


• Molecule 20: NUP93 R1



• Molecule 20: NUP93 R1

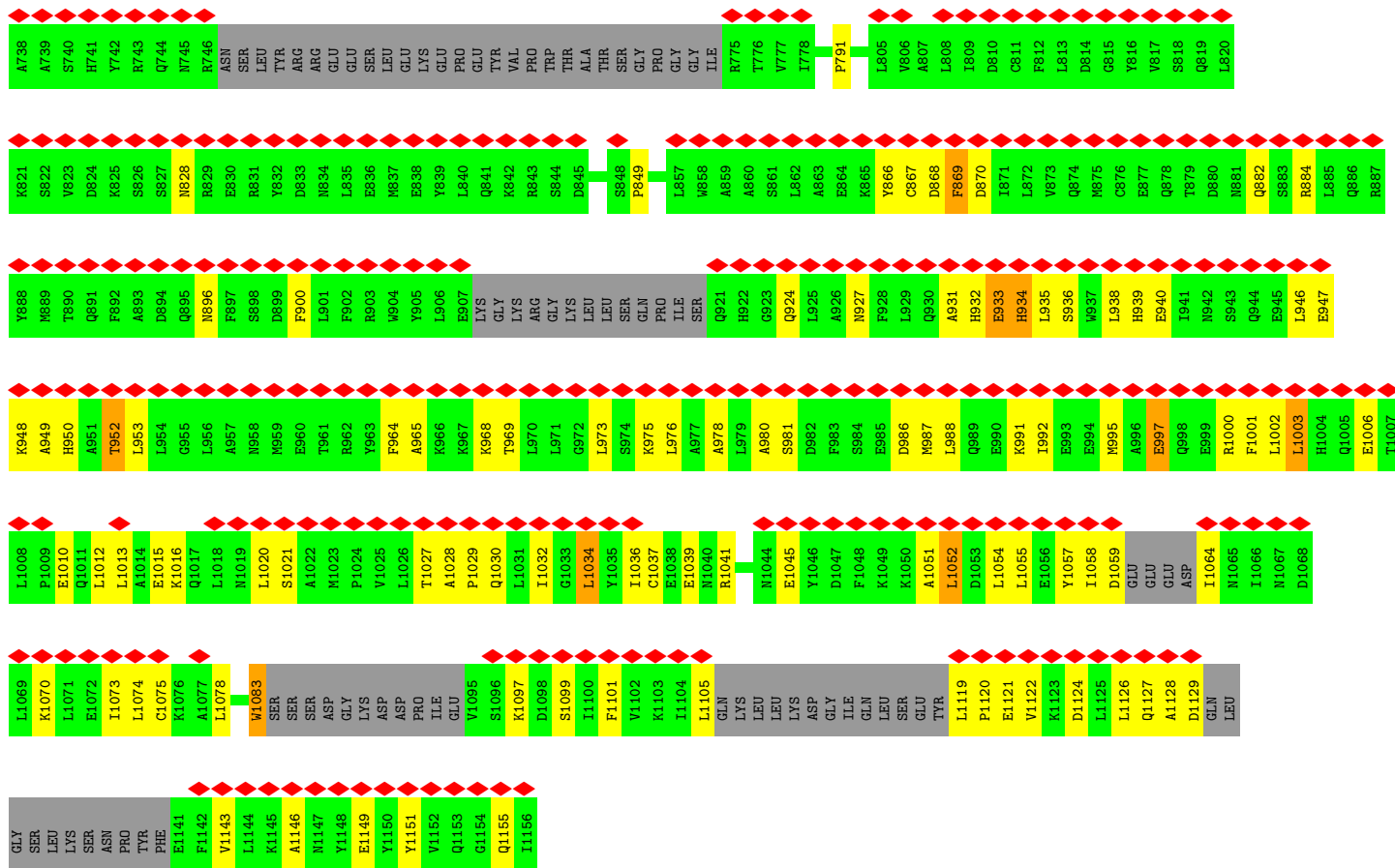




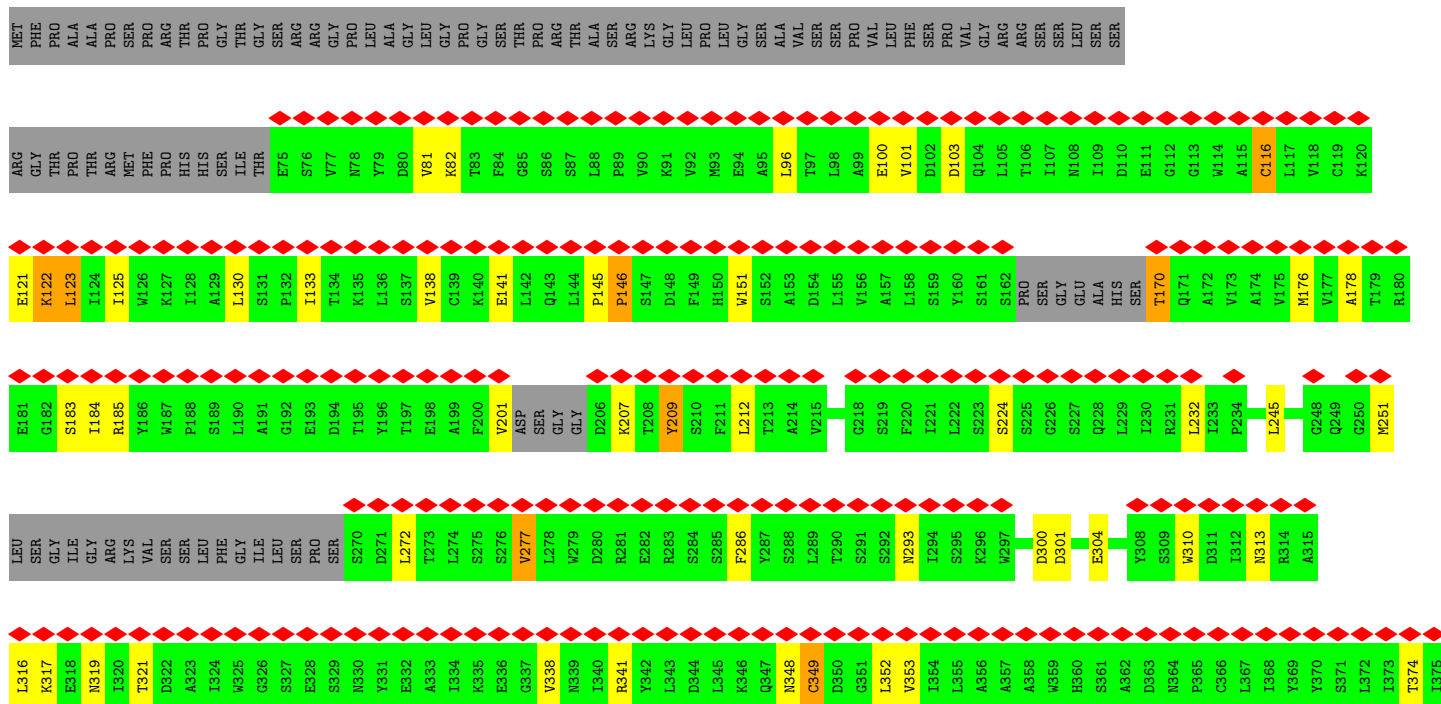
• Molecule 21: NUP133



MET	PHE	PRO	PRO	ALA	ALA	PRO	SER	PRO	ARG	THR	PRO	HIS	THR	GLY	THR	GLY	SER	ARG	ARG	ARG	GLY	GLY	PRO	GLY	SER	THR	ARG	ARG	THR	THR	ALA	SER	ARG	LYS	LYS	GLY	LEU	PRO	PRO	LEU	GLY	SER	ALA	VAL	SER	SER	PRO	PRO	VAL	PHE	SER	PRO	VAL	GLY	ARG	ARG	SER	SER	LEU	SER	SER
ARG	GLY	THR	PRO	THR	THR	ARG	MET	PHE	PRO	HIS	HIS	SER	ILE	THR	E75	S76	V77	N78	Y79	D80	V81	K82	T83	F84	G85	S86	S87	L88	P89	V90	K91	Y92	F93	M93	E94	A95	L96	T97	L98	A99	E100	V101	D102	D103	Q104	L105	T106	I107	N108	I109	D110	E111	G112	G113	W114	A115	C116	L117	V118	C119	K120
E121	K122	L123	I124	L125	W126	K127	I128	A129	L130	S131	P132	I133	T134	K135	L136	S137	V138	G139	F200	K140	E141	L142	Q143	L144	P145	P146	S147	D148	F149	M93	H150	W151	S152	A153	D154	L155	V156	A157	L158	S159	Y160	S161	S162	PRO	GLY	GLU	ALA	HIS	SER	T170	Q171	A172	V173	A174	V175	M176	A177	V178	C119	T179	R180
E181	G182	S183	I184	R185	Y186	W187	P188	S189	L190	A191	G192	E193	D194	T195	Y196	T197	E198	A199	F200	V201	ASP	SER	GLY	GLY	D206	K207	T208	Y209	S210	F211	L212	T213	A214	V215	Q216	G217	G218	S219	F220	I221	L222	S223	S224	S225	G226	Q227	Q228	L229	I230	R231	L232	I233	P234	Q242	L245	P246	Q247				
G248	Q249	C250	M251	LEU	SER	ILE	GLY	ARG	LYS	VAL	SER	SER	SER	N319	PHE	GLY	ILE	SER	PRO	S270	D271	L272	T273	L274	S275	S276	V277	L278	W279	D280	F281	E282	R283	S284	S285	F286	Y287	S288	L289	T290	F220	I221	L222	S223	S224	S225	G226	Q227	Q228	L229	I230	R231	L232	I233	P234	Q242	L245	P246	Q247		
Y308	S309	W310	D311	I312	N313	R314	A315	L316	K317	E318	N319	I320	T321	D322	A323	I324	W325	G326	S327	E328	N330	Y331	E332	A333	I334	K335	E336	F337	Y338	N339	I340	R341	Y342	L343	D344	L345	K346	Q347	N348	C349	D350	G351	L352	V353	I354	L355	L299	D300	D301	S302	E303	K305	H306	A307	L367						
I368	Y369	Y370	S371	L372	I373	T374	I375	E376	D377	N378	G379	C380	Q381	M382	S383	D384	A385	V386	T387	V388	E389	V390	T391	Q392	Y393	N394	P395	P396	F397	Q398	S399	E400	D401	L402	I403	L404	C405	Q406	L407	T408	V409	P410	M411	F412	S413	M414	Q415	T416	A417	Y418	L419	Y420	N421	E422	S423	A424	N364	P365	C366	V427	
C428	S429	T430	G431	T432	G433	K434	F435	S436	L437	P438	Q439	E440	K441	I442	V443	F444	M445	A446	Q447	G448	D449	S450	V451	L452	A454	G455	A456	C457	G458	G459	V460	I461	I462	I463	F464	S465	R466	M467	S468	G469	L470	V471	S472	I473	T474	S475	R476	E477	ASN	VAL	ILE	ALA	GLU	ASP	LEU	GLU	L367				
GLY	SER	LEU	ALA	SER	SER	VAL	ALA	GLY	PRO	ASN	SER	GLU	SER	MET	G619	L620	A660	F621	G622	R623	L624	G625	S626	F627	P628	V629	R630	K518	I519	K520	L521	L522	K523	A524	A525	F526	L527	Q528	Y529	C530	R531	K532	D533	L534	C535	H536	A537	Q538	M539	V540	V541	D542	E543	L544	F545	S546	S547				
H548	S549	D550	L551	D552	S553	D554	S555	E556	L557	D558	R559	A560	V561	T562	Q563	I564	S565	V566	D567	L568	M569	D570	D571	Y572	A574	S575	ASP	PRO	ARG	TRP	ALA	GLU	SER	VAL	PRO	GLU	GLU	ALA	PRO	GLY	PHE	ASN	THR	SER	LEU	I596	I597	L598	H599	Q600	L601	E602	D603	R604	M605	R606	A607				
H608	S609	F610	L611	M612	D613	F614	I615	H616	Q617	V618	G619	L620	F621	G622	R623	L624	G625	S626	F627	P628	V629	R630	GLY	THR	PRO	MET	ALA	THR	ARG	L638	L639	L640	C641	E642	H643	A644	E645	K646	L647	S648	A649	A650	I651	V652	L653	K654	N655	H656	H657	S658	R659	L660	S661	D662	L663	V664	N665	T666	A667		
L669	L670	A671	L672	N673	K674	R675	E676	Y677	E678	L679	P680	S681	N682	L683	T684	P685	A686	D687	V688	F689	F690	R691	E692	V693	S694	Q695	V696	D697	T698	L699	C700	E701	D713	ALA	PRO	ASP	S718	I719	E720	W721	A722	E723	V724	I726	N727	H656	H657	N729	W730	I731	L732	K733	D734	W735	L736	Q737					



• Molecule 21: NUP133

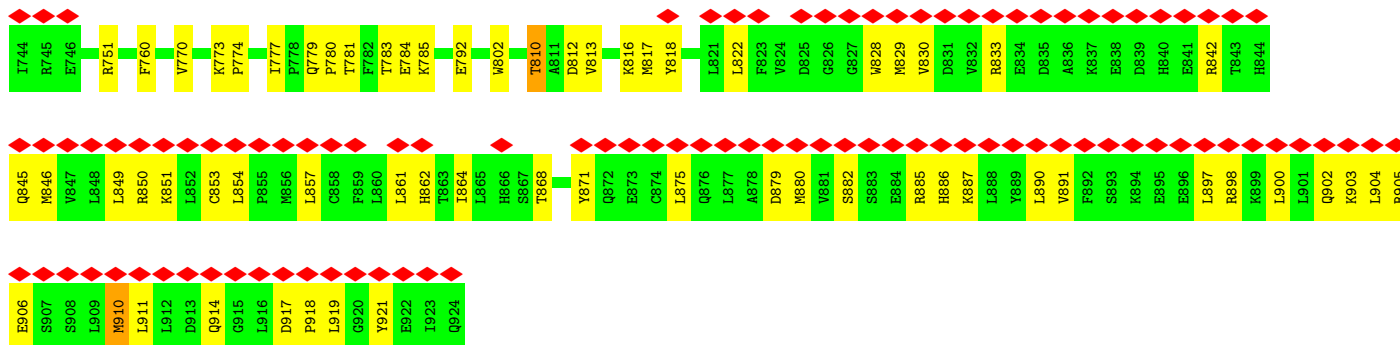


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L601	E602	D603	K604	M605	K606	A607	H608	S609	F610	L611	M612	D613	F614	I615	H616	Q617	V618	G619	L620	F621	G622	R623	L624	G625	V626	F627	P628	V629	GLY	THR	PRO	MET	ALA	THR	ARG	L638	L639	L640	C641	E642	H643	A644	L645	K646	L647	S648	A649	A650	I651	V652	L653	K654	M655	H656	S657	R658	L659	L660			
S661	D662	L663	V664	M665	T666	A667	I668	L669	I670	A671	L672	M673	K674	R675	E676	F677	V678	I679	P680	S681	G682	L683	T684	P685	A686	D687	V688	F689	F690	R691	E692	G693	S694	Q695	V696	D697	L698	T699	I699	C700	E701	C702	L703	L704	E705	H706	E707	E708	Q709	V710	L711	R712	D713	ALA	PRO	MET	ASP	S718	I719	R659	E720
W721	A722	E723	V724	V725	I726	N727	V728	N729	N730	I731	L732	K733	D734	M735	L736	Q737	A738	A739	S740	H741	V742	R743	Q744	N745	R746	ASN	SER	LEU	TYR	ARG	GLU	GLU	LEU	LYS	GLU	GLU	PRO	VAL	TRP	THR	ALA	THR	GLY	PRO	GLY	ILE	R775	T776	V777	I778	I779	R780									
H781	E783	I784	V785	L786	K787	V788	A789	V790	F791	Q792	A793	D794	S795	N796	L797	R798	N799	I800	T801	V802	E803	Q804	L805	A806	A807	L808	I809	D810	C811	F812	L813	D814	G815	Y816	V817	S818	Q819	L820	K821	S822	V823	D824	K825	S826	S827	N828	R829	E830	R831	Y832	D833	N834	L835	E836	M837	E838	Y839	L840			
Q841	R843	S844	D845	L846	L847	S848	P849	L850	L851	S852	L853	G854	Q855	Y856	L857	M858	A859	A860	L861	L862	A863	E864	K865	V866	C867	D868	F869	D870	I871	L872	V873	Q874	M875	C876	E877	Q878	T879	D880	M881	Q882	S883	R884	L885	Q886	R887	Y888	M889	T890	Q891	F892	A893	D894	Q895	N896	F897	S898	D899	F900			
L901	F903	W904	Y905	L906	E907	LYS	GLY	LYS	ARG	GLY	LYS	LEU	SER	GLN	PRO	ILE	SER	Q921	H922	G923	Q924	L925	A926	N927	F928	L929	Q930	A931	H932	E933	H934	L935	S936	Q937	L938	H939	E940	I941	N942	S943	Q944	Q945	E946	L946	E947	K948	A949	H950	A951	T952	L953	L954	G955	L956	A957	N958	M959	E960			
T961	R962	Y963	F964	A965	K966	K967	K968	T969	L970	L971	G972	L973	S974	K975	L976	A977	A978	L979	A980	S981	D982	F983	S984	E985	D986	M987	L988	Q989	E990	K991	I992	L993	E994	M995	A996	E997	Q998	E999	R1000	F1001	L1002	L1003	H1004	Q1005	E1006	N1007	L1008	P1009	E1010	Q1011	L1012	L1013	A1014	E1015	K1016	L1017	L1018	N1019	L1020		
S1021	A1022	M1023	P1024	V1025	L1026	T1027	A1028	P1029	Q1030	L1031	I1032	G1033	L1034	Y1035	I1036	C1037	E1038	E1039	N1040	R1041	L1042	A1043	N1044	E1045	V1046	D1047	F1048	K1049	A1050	A1051	L1052	D1053	L1054	L1055	E1056	Y1057	I1058	D1059	GLU	GLU	GLU	ASP	I1064	N1065	I1066	N1067	D1068	L1069	K1070	L1071	E1072	I1073	L1074	C1075	K1076	A1077	Q1078	R1080			
D1081	M1082	W1083	SER	SER	SER	ASP	GLY	LYS	ASP	ASP	PRO	ILE	GLU	V1095	S1096	K1097	D1098	S1099	I1100	F1101	V1102	K1103	L1104	L1105	GLN	LYS	LEU	LYS	ASP	GLY	ILE	GLN	LEU	SER	GLU	TYR	L1119	P1120	E1121	V1122	K1123	D1124	L1125	L1126	Q1127	A1128	D1129	GLN	LEU	GLY	SER	LEU	SER	ASN	PRO	TYR	PHE				
E1141	F1142	V1143	L1144	K1145	A1146	M1147	Y1148	E1149	Y1150	Y1151	V1152	Q1153	G1154	Q1155	I1156																																														

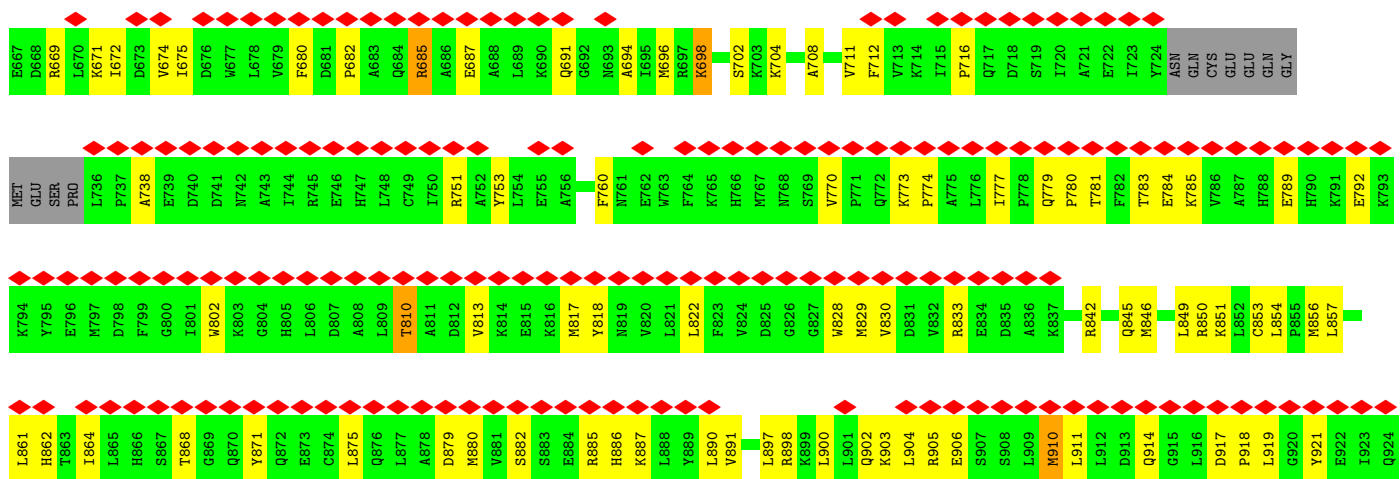
• Molecule 22: NUP107 CTD



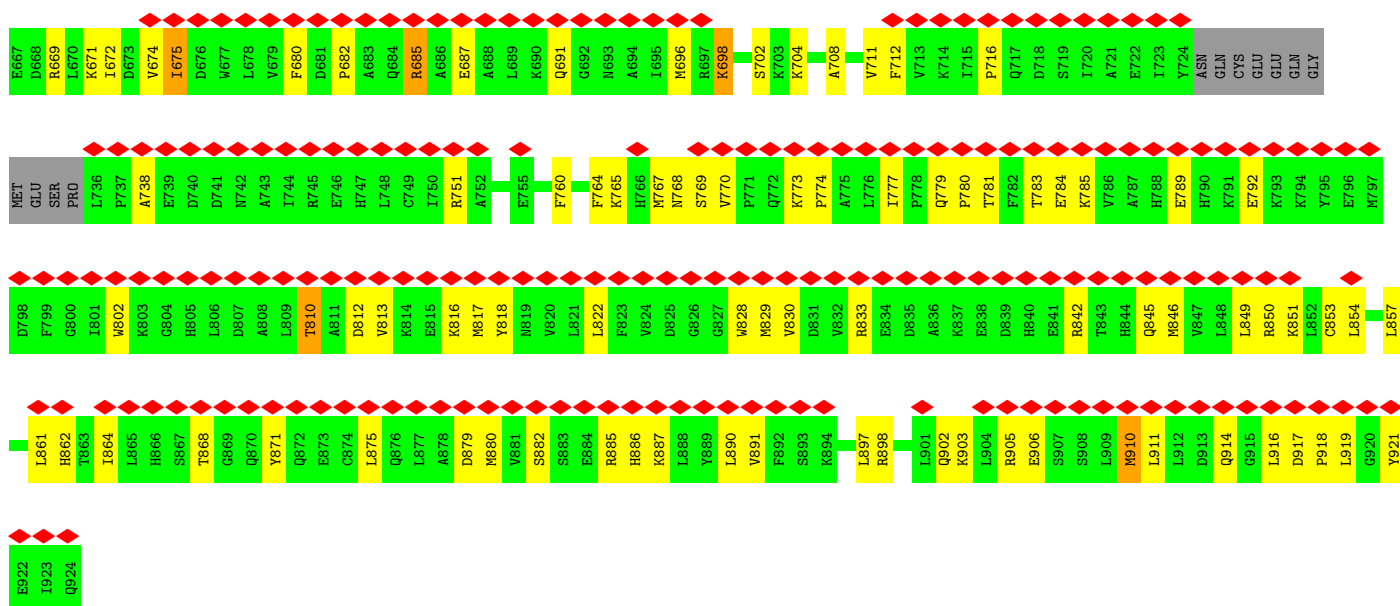
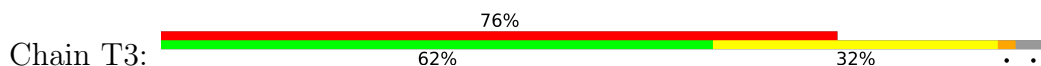
E667	D668	R669	L670	K671	I672	D673	V674	I675	F680	D681	P682	A683	Q684	R685	A686	E687	K690	Q691	A694	I695	M696	R697	K698	A701	S702	K703	K704	A708	V711	F712	P716	Y724	ASN	GLN	CYS	GLU	GLU	GLN	GLY	MET	GLU	SER	PRO	L736	P737	A738	E739	D740	D741	N742	A743
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------



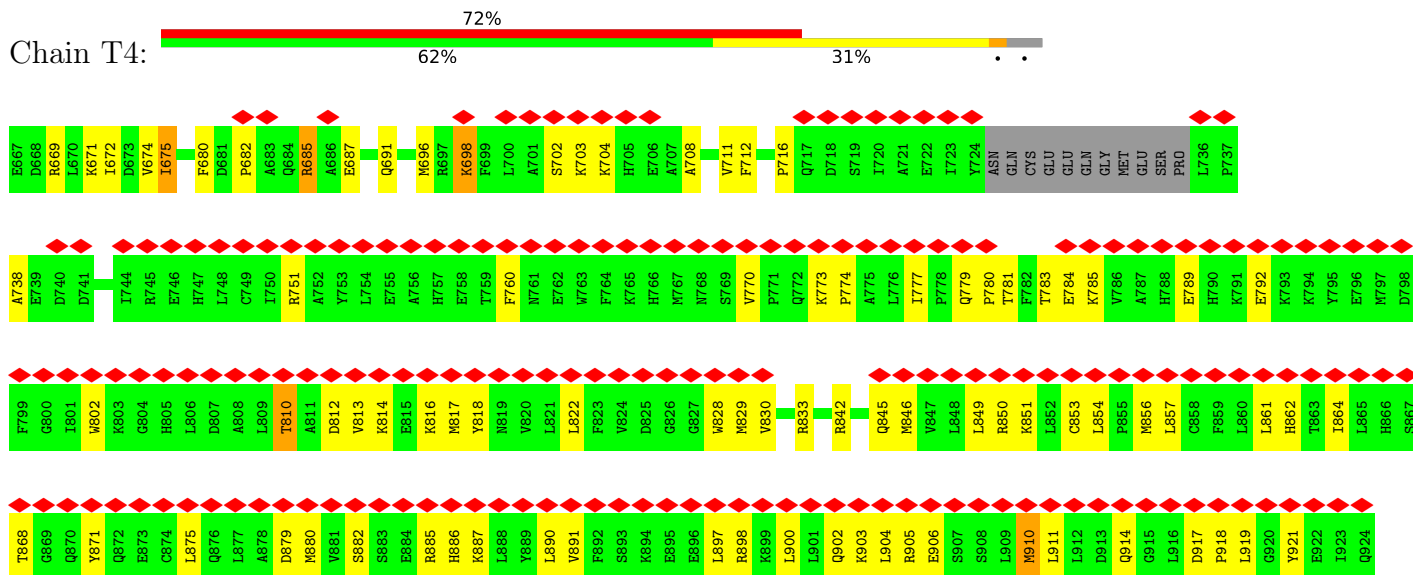
• Molecule 22: NUP107 CTD

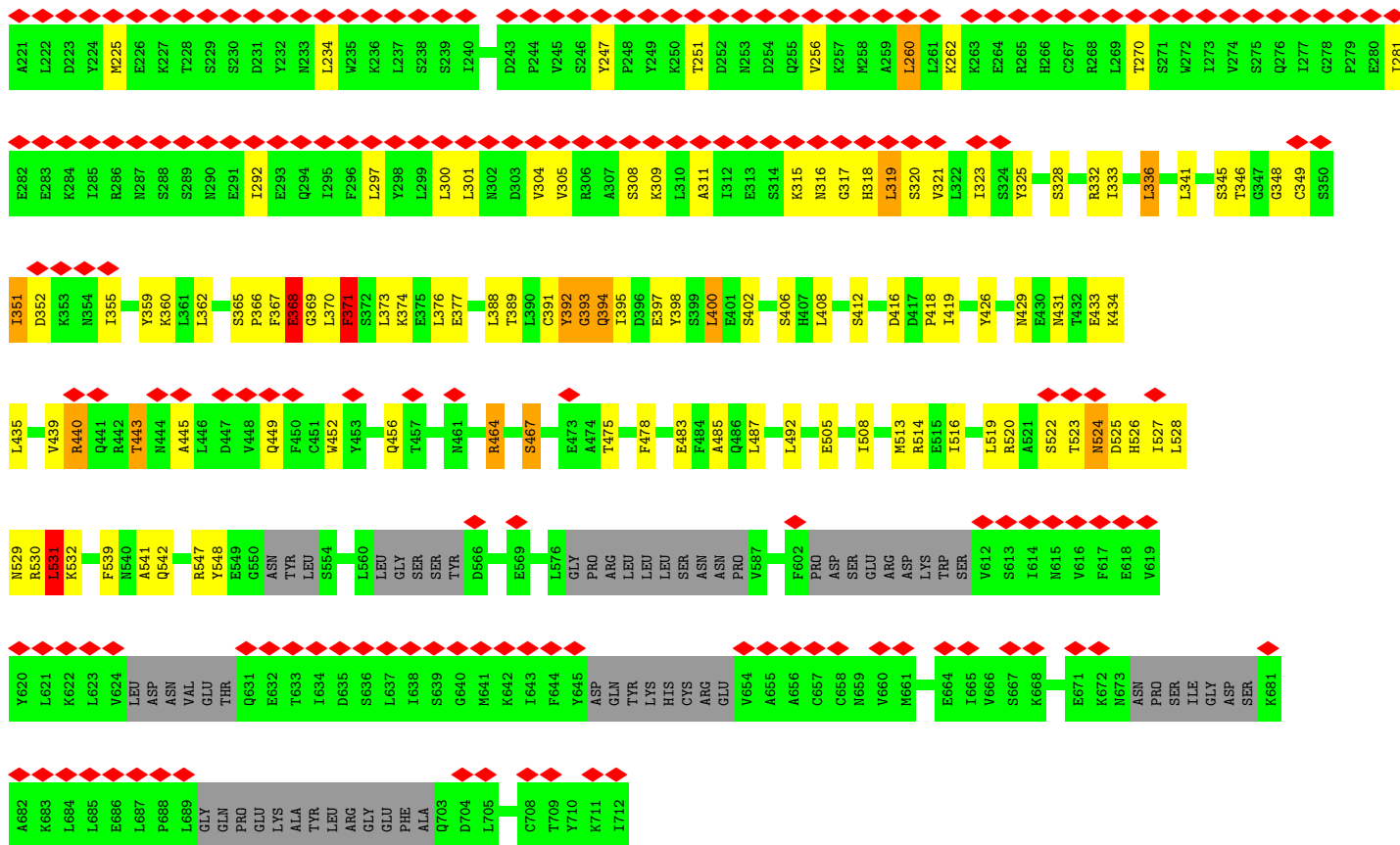


• Molecule 22: NUP107 CTD

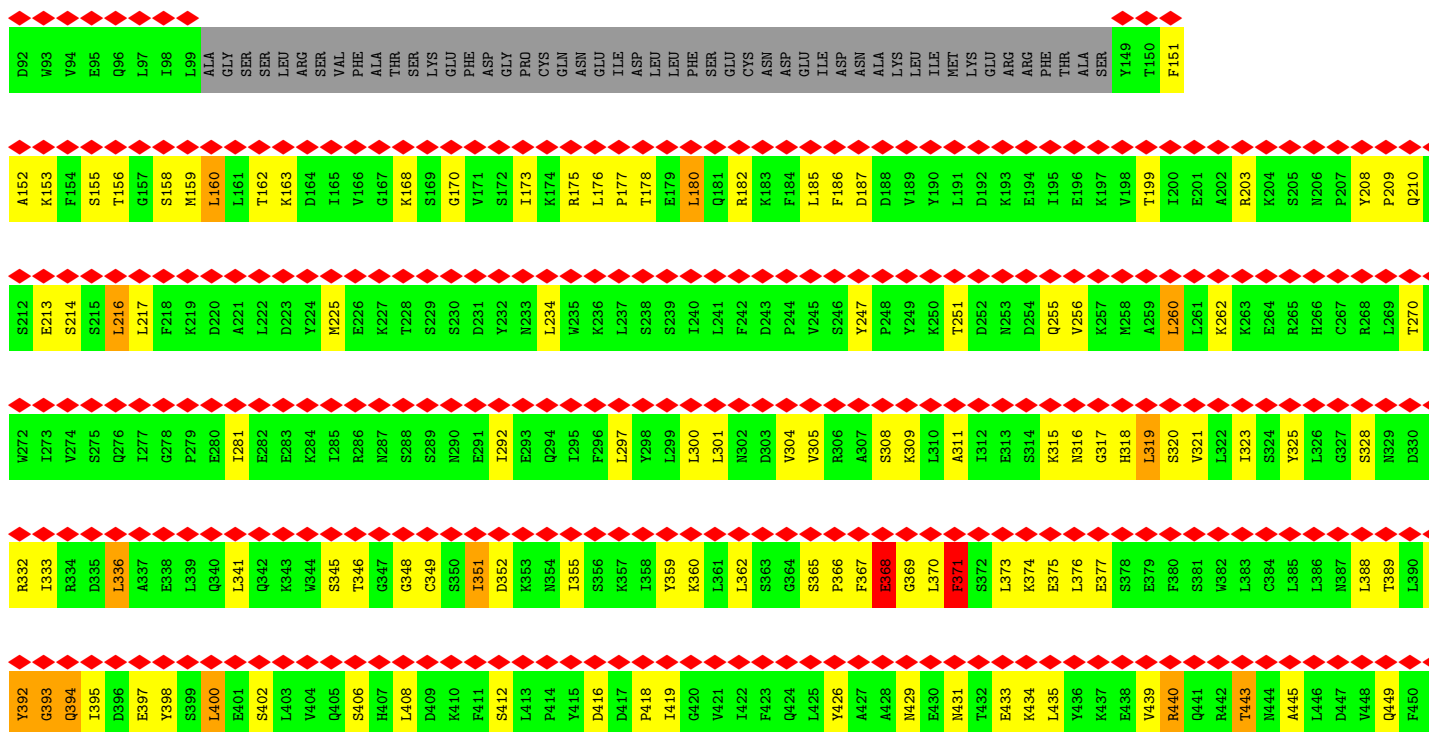
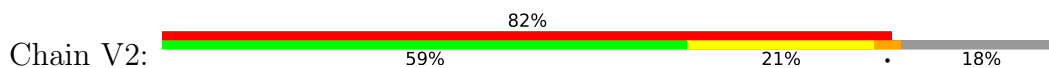


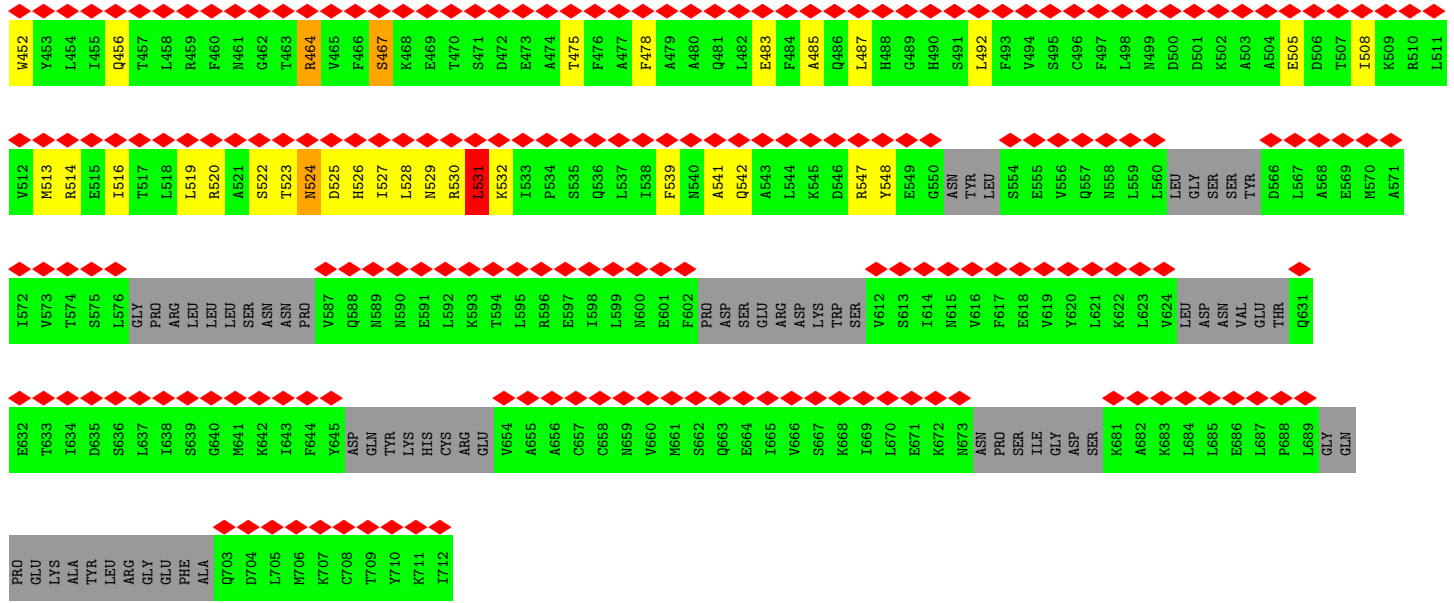
• Molecule 22: NUP107 CTD



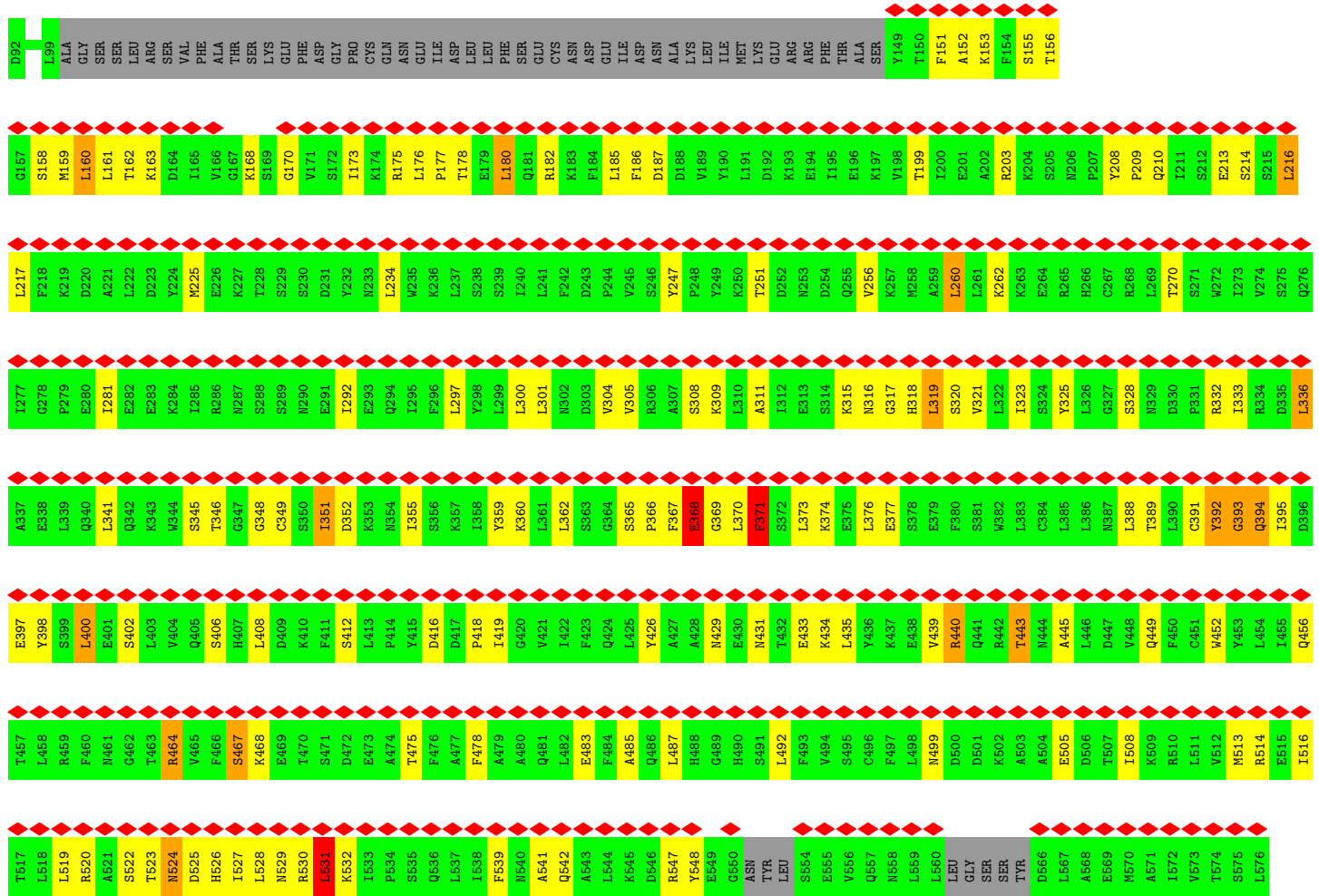
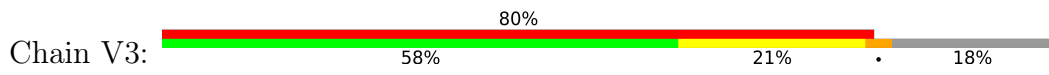


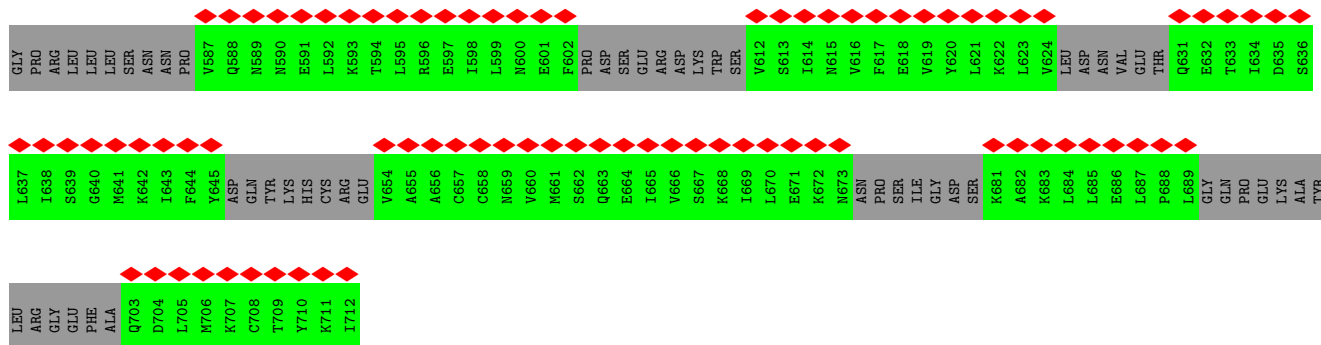
• Molecule 24: NUP96



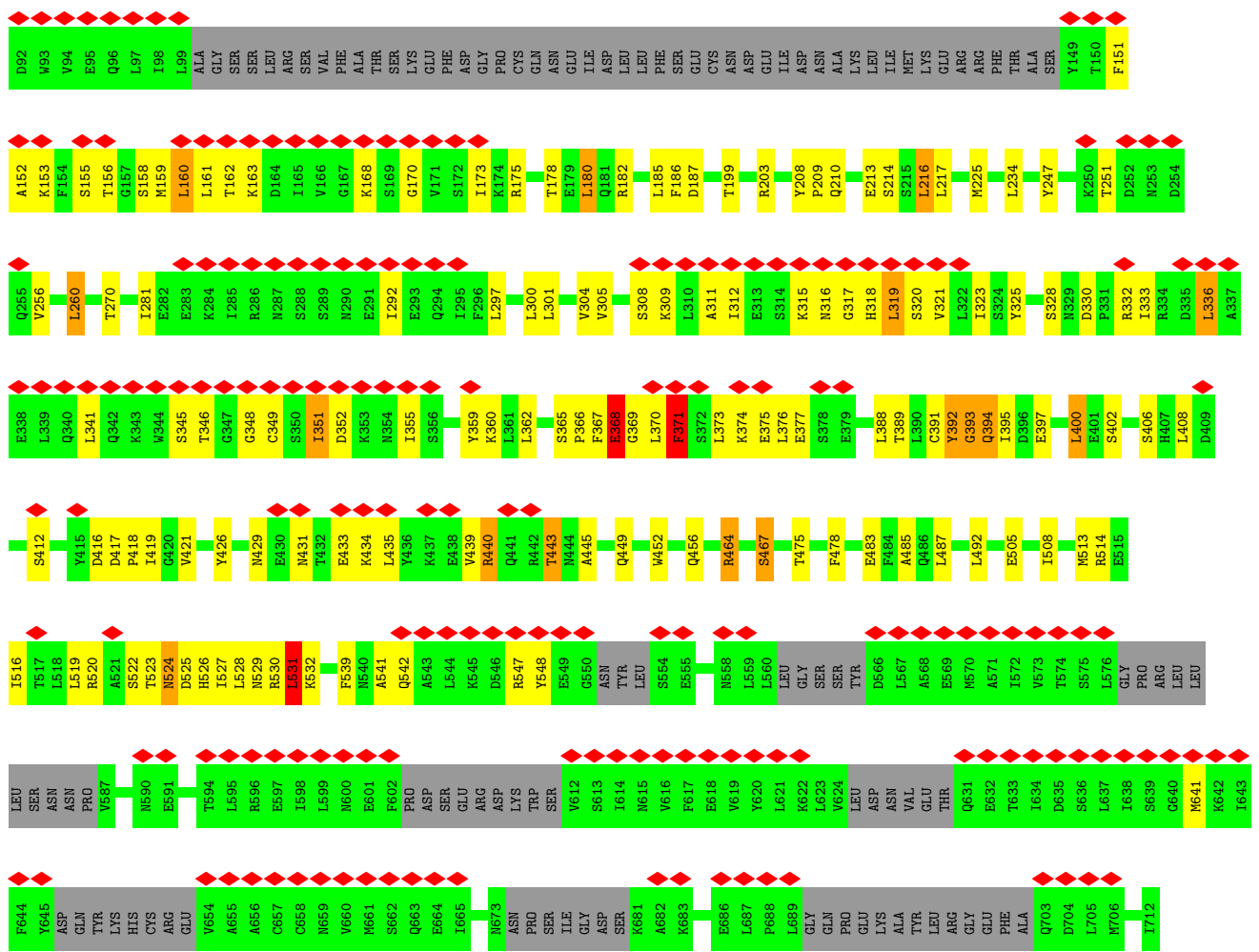


• Molecule 24: NUP96

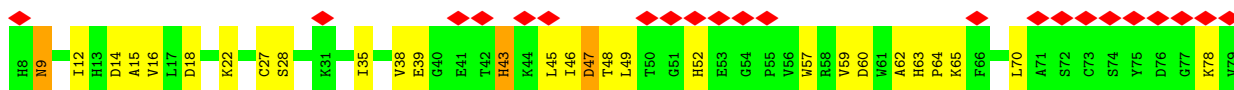




• Molecule 24: NUP96

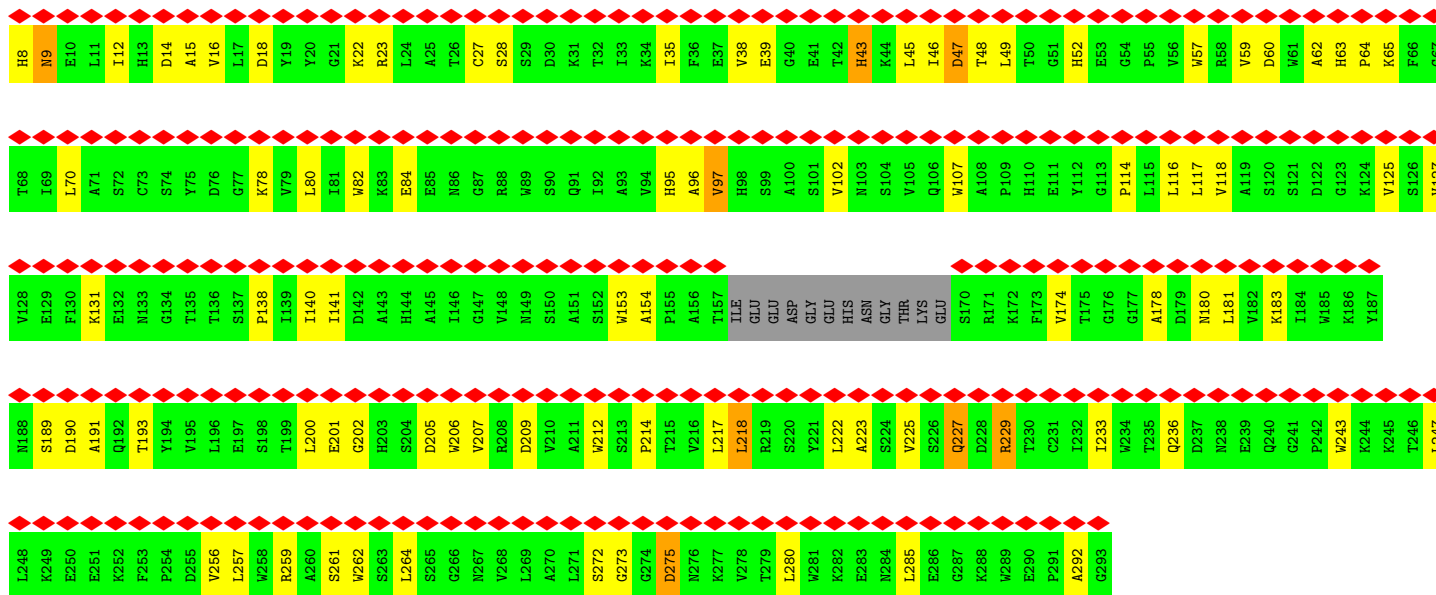


• Molecule 25: SEC13

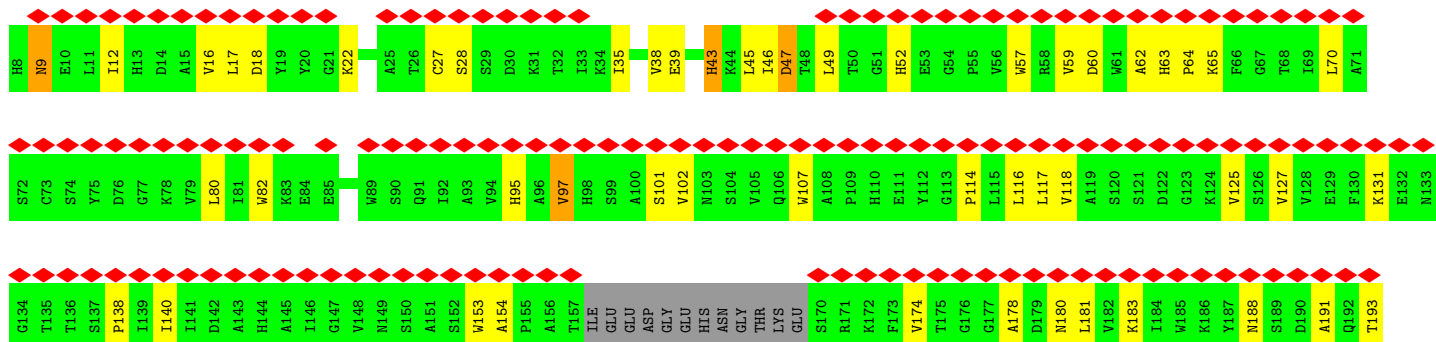
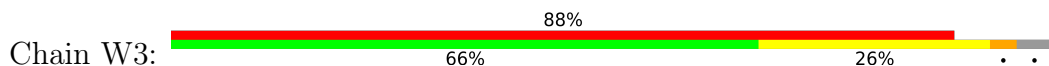


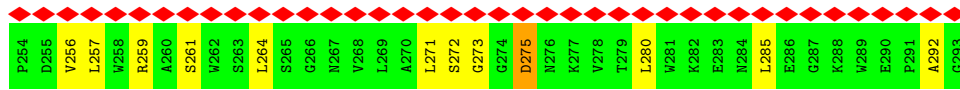
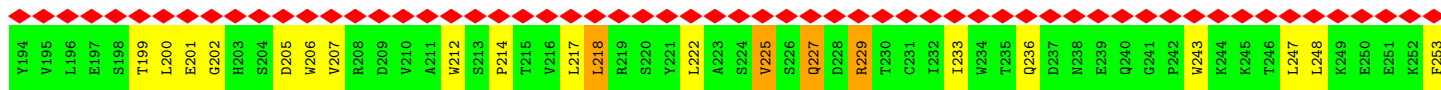


• Molecule 25: SEC13

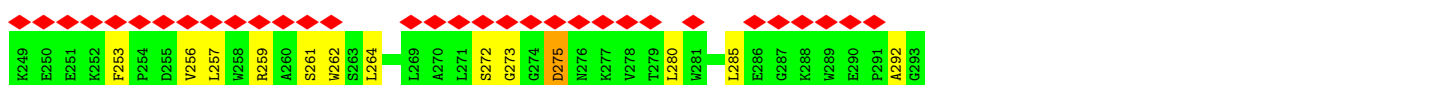
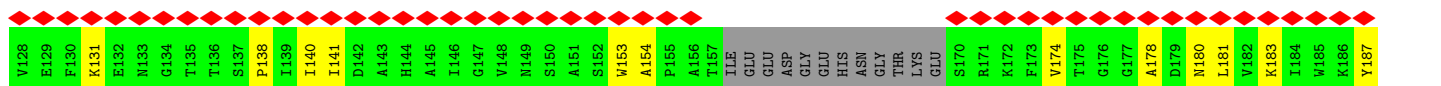
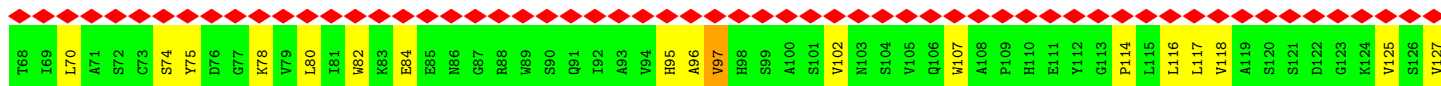
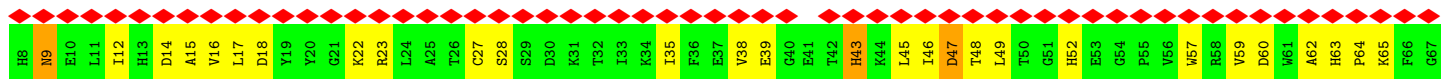
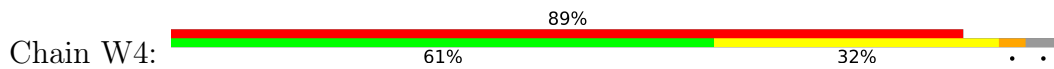


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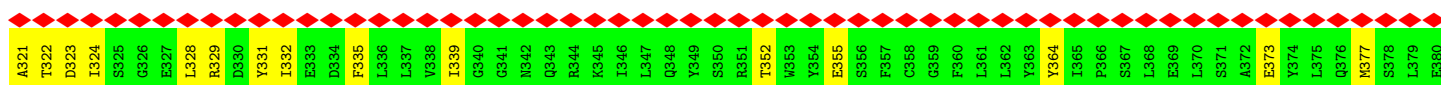
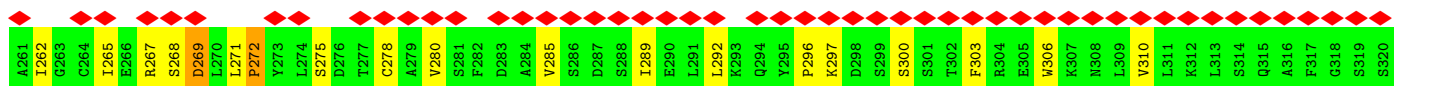
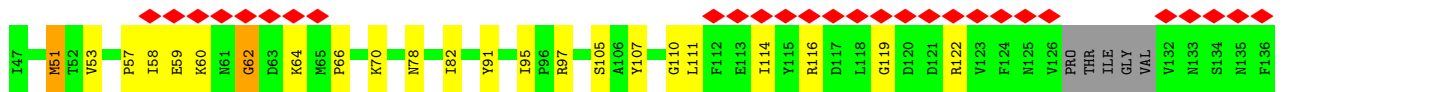




• Molecule 25: SEC13

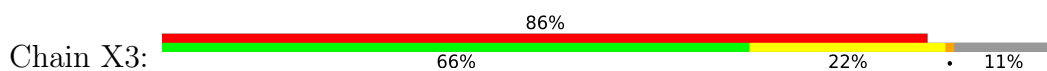


• Molecule 26: NUP75

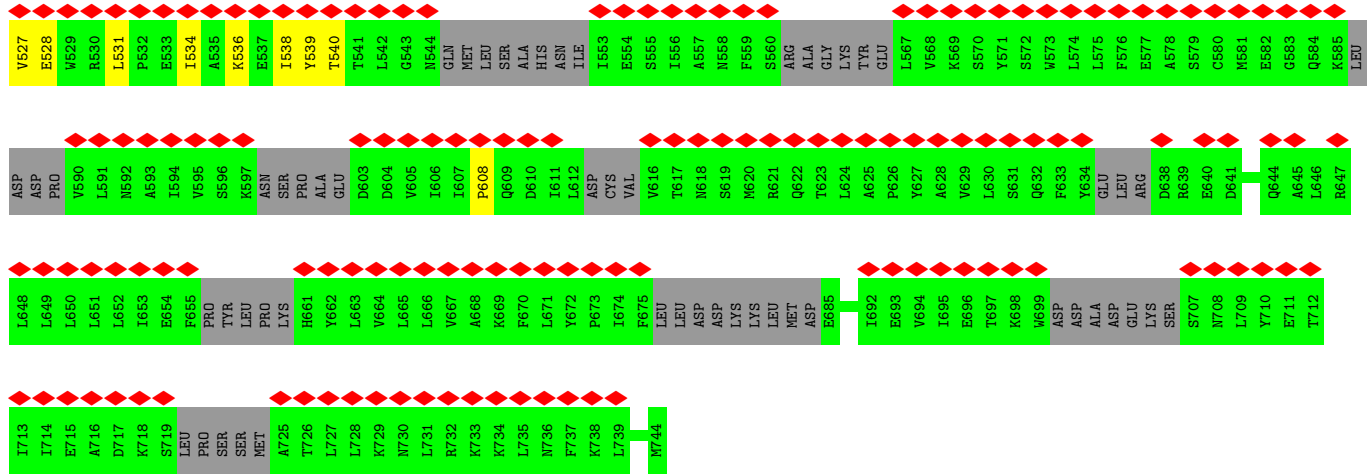


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V527	E528	W529	R530	L531	P532	E533	I534	A535	K536	E537	I538	Y539	T540	T541	L542	G543	N544	GLN	MET	LEU	SER	ALA	HIS	ASN	I553	E554	S555	I556	A557	N558	F559	S560	ARG	ALA	GLY	LYS	TYR	L567	V568	K569	S570	L571	S572	W573	L574	L575	F576	E577	ARG	T578	A579	S579	C580	M581	I582	E583	G584	Q585	L586
ASP	ASP	PRO	V590	L591	N592	A593	I594	V595	S596	K597	ASN	PRO	SER	PRO	ALA	GLU	D603	D604	V605	I606	I607	P608	Q609	D610	I611	L612	ASP	CYS	VAL	V616	T617	N618	S619	M620	L621	Q622	T623	L624	A625	P626	Y627	A628	V629	L630	Q632	F633	Y634	GLU	LEU	D638	R639	E640	W642	G643	Q644	A645	L646		
R647	L648	L649	L650	L651	L652	L653	E654	P655	PRO	TYR	LEU	PRO	LYS	H661	Y662	L663	V664	L665	L666	V667	A668	K669	F670	I671	Y672	P673	F675	LEU	LEU	LEU	ASP	LYS	LYS	LEU	MET	ASP	E685	D686	V688	A689	T690	V691	I692	E693	V694	I695	E696	T697	K698	W699	ASP	ALA	ASP	GLU	LYS	SER			
S707	N708	L709	V710	T711	E712	I713	I714	E715	A716	D717	K718	S719	PRO	SER	SER	MET	A725	T726	L727	L728	K729	W730	L731	Y732	K733	K734	L735	W736	F737	K738	L739	Q740	M741	ASP	A742	F743	M744																						

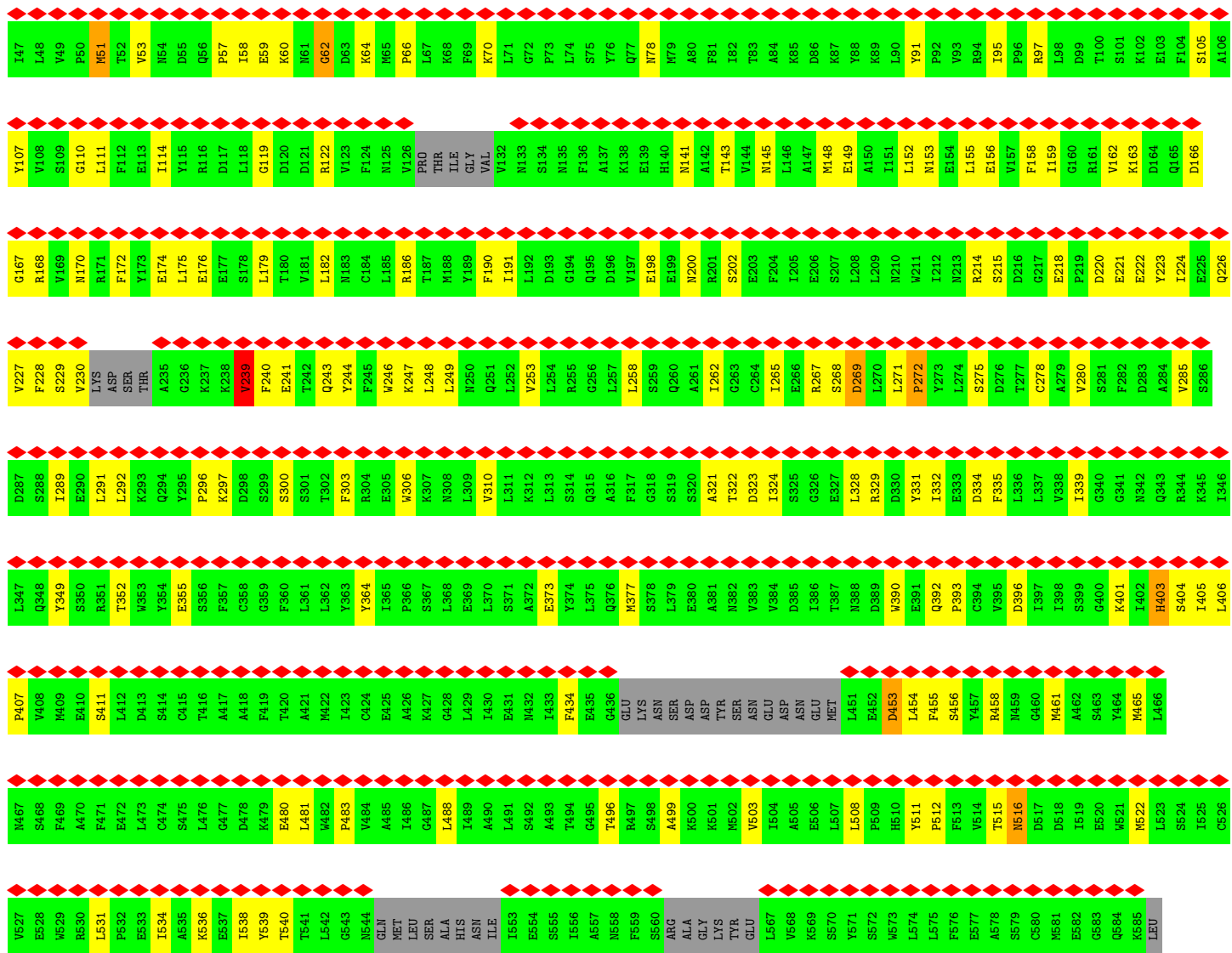
• Molecule 26: NUP75

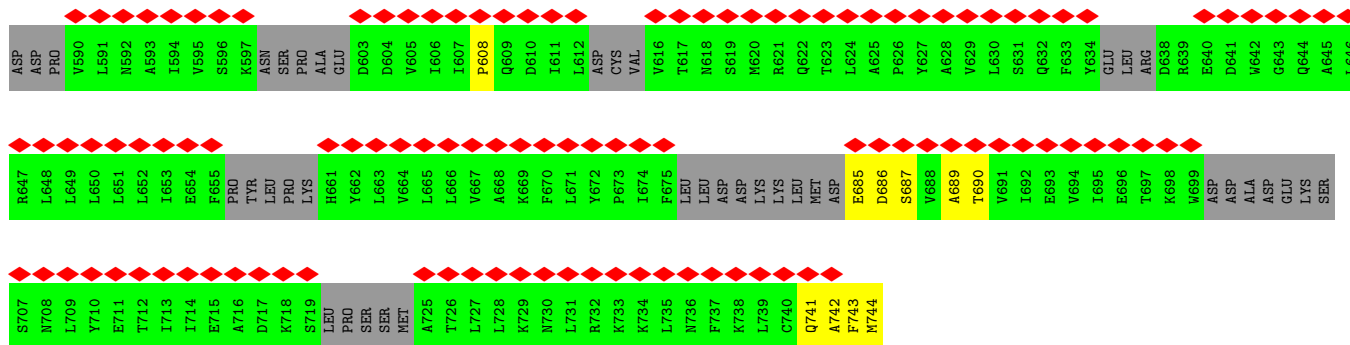


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Y107	V108	S109	G110	L111	F112	E113	I114	Y115	G236	R116	D117	L118	G119	D120	D121	R122	V123	F124	M125	V126	PRO	THR	ILE	GLY	VAL	V132	M133	S134	G135	F136	D137	K138	E139	H140	M141	A142	T143	V144	M145	L146	A147	M148	E149	A150	I151	L152	M153	E154	L155	E156	V157	F158	I159	G160	D220	E221	V222	D223	I224	E225	Q226
G167	R168	V169	M170	R171	F172	Y173	E174	L175	E176	E177	S178	L179	T180	V181	L182	M183	C184	L185	R186	T187	M188	Y189	F190	I191	L192	D193	G194	Q195	D196	Y197	E198	E199	N200	R201	S202	E203	P204	I205	E206	S207	L208	L209	N210	W211	I212	M213	R214	S215	D216	G217	E218	F219	D220	E221	E222	Y223	I224	E225	Q226		
V227	F228	S229	V230	L291	L292	K293	Q294	Y295	P296	K297	D298	S299	S300	S301	T302	Q303	R304	E305	W306	K307	L248	L249	N250	Q251	V253	L254	R255	G256	L257	L258	S259	Q260	A261	I262	G263	C264	I324	S325	G326	E327	L328	R329	D330	Y331	I332	E333	L274	S275	D276	T277	C278	A279	V280	S281	F282	D283	A284	V285	S286		
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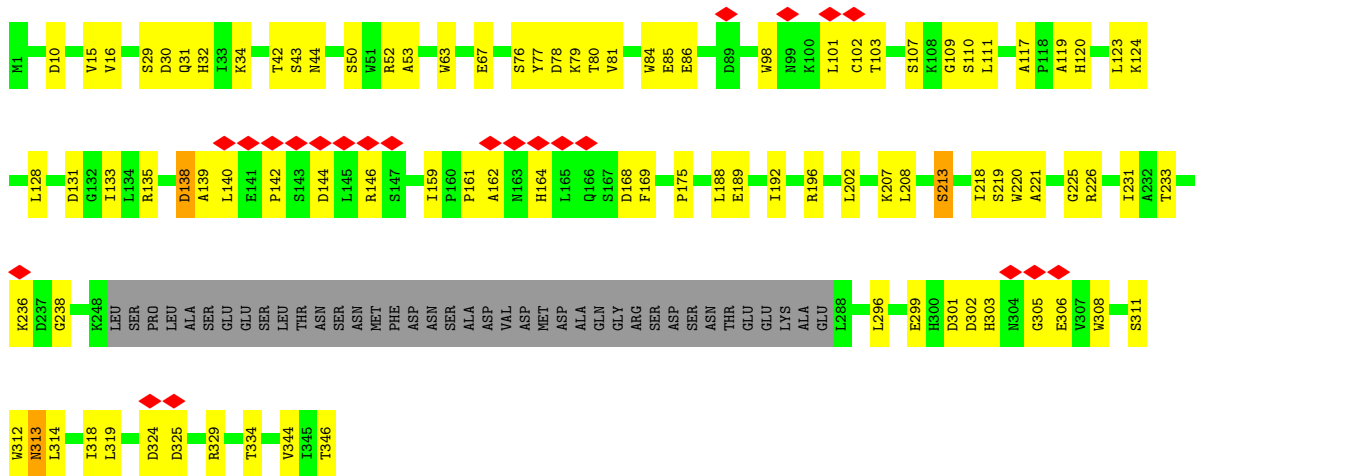


• Molecule 26: NUP75

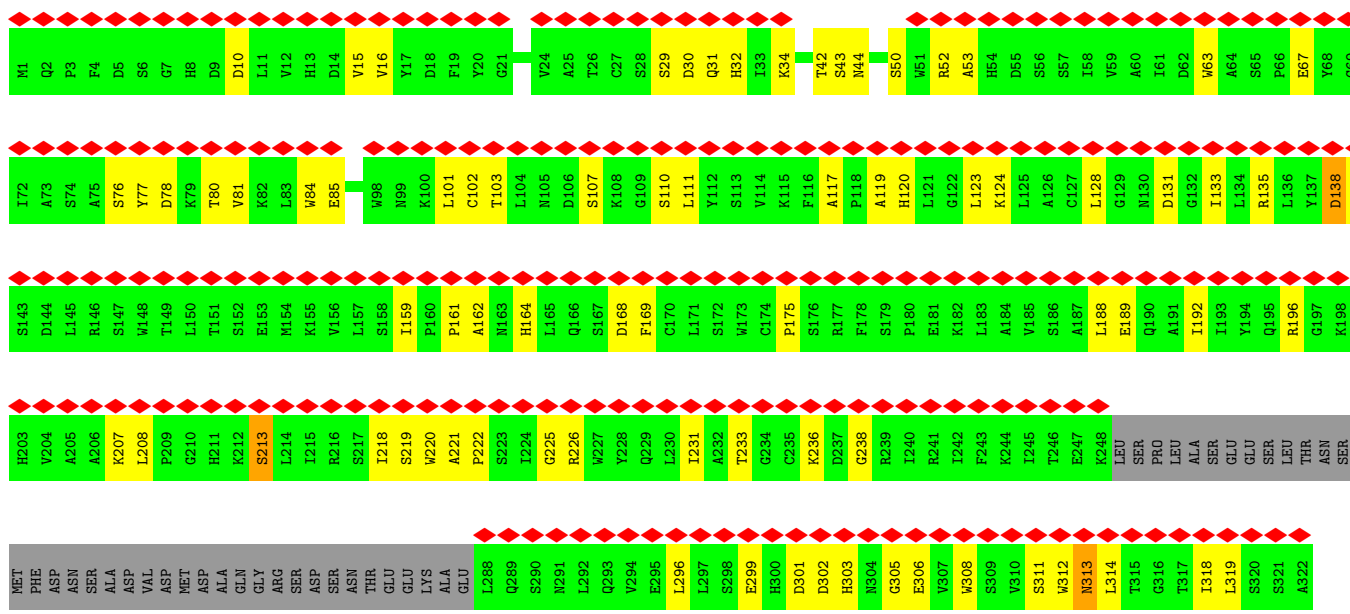
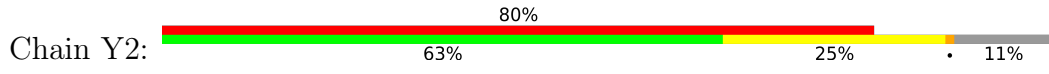




• Molecule 27: SEH1

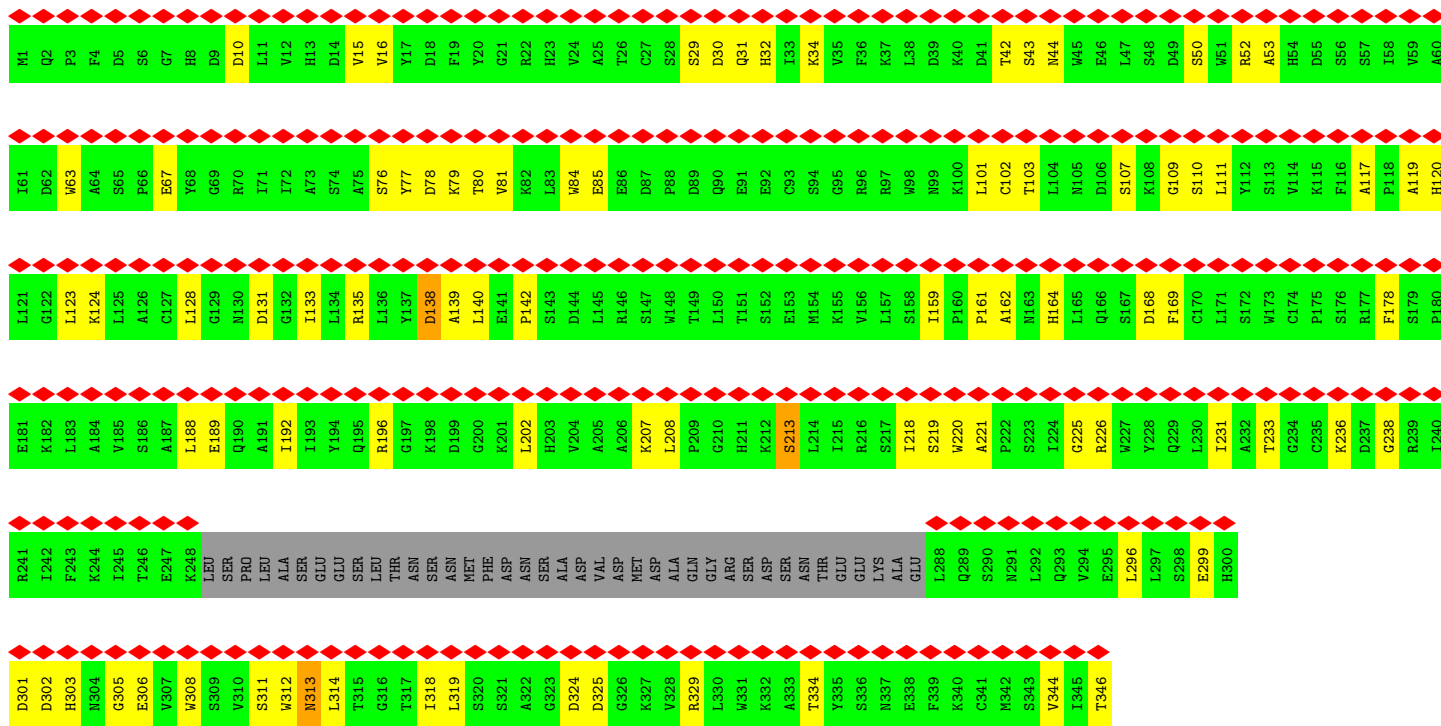
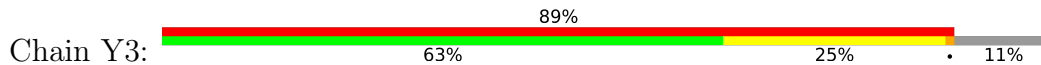


• Molecule 27: SEH1

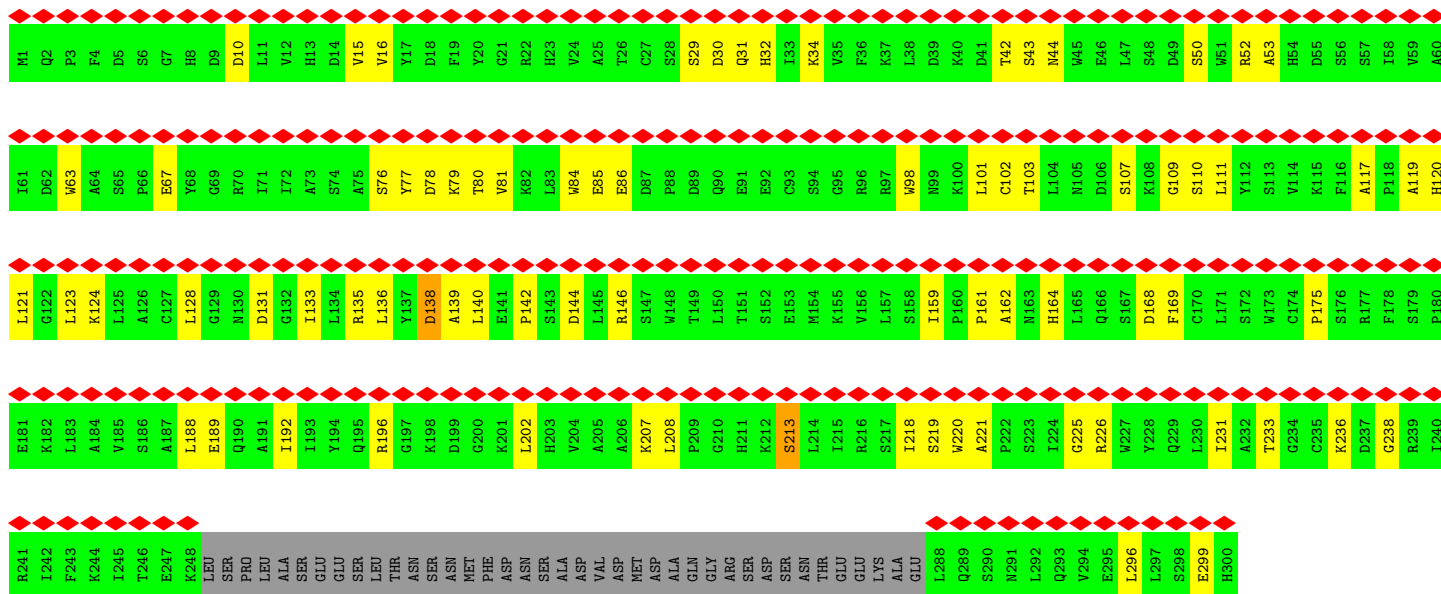
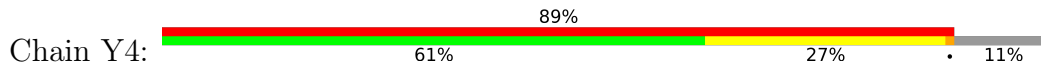


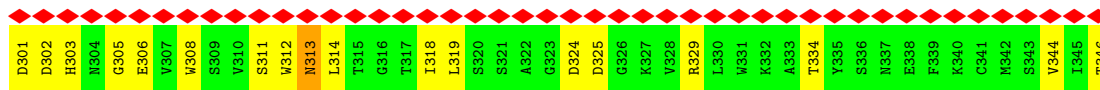


• Molecule 27: SEH1

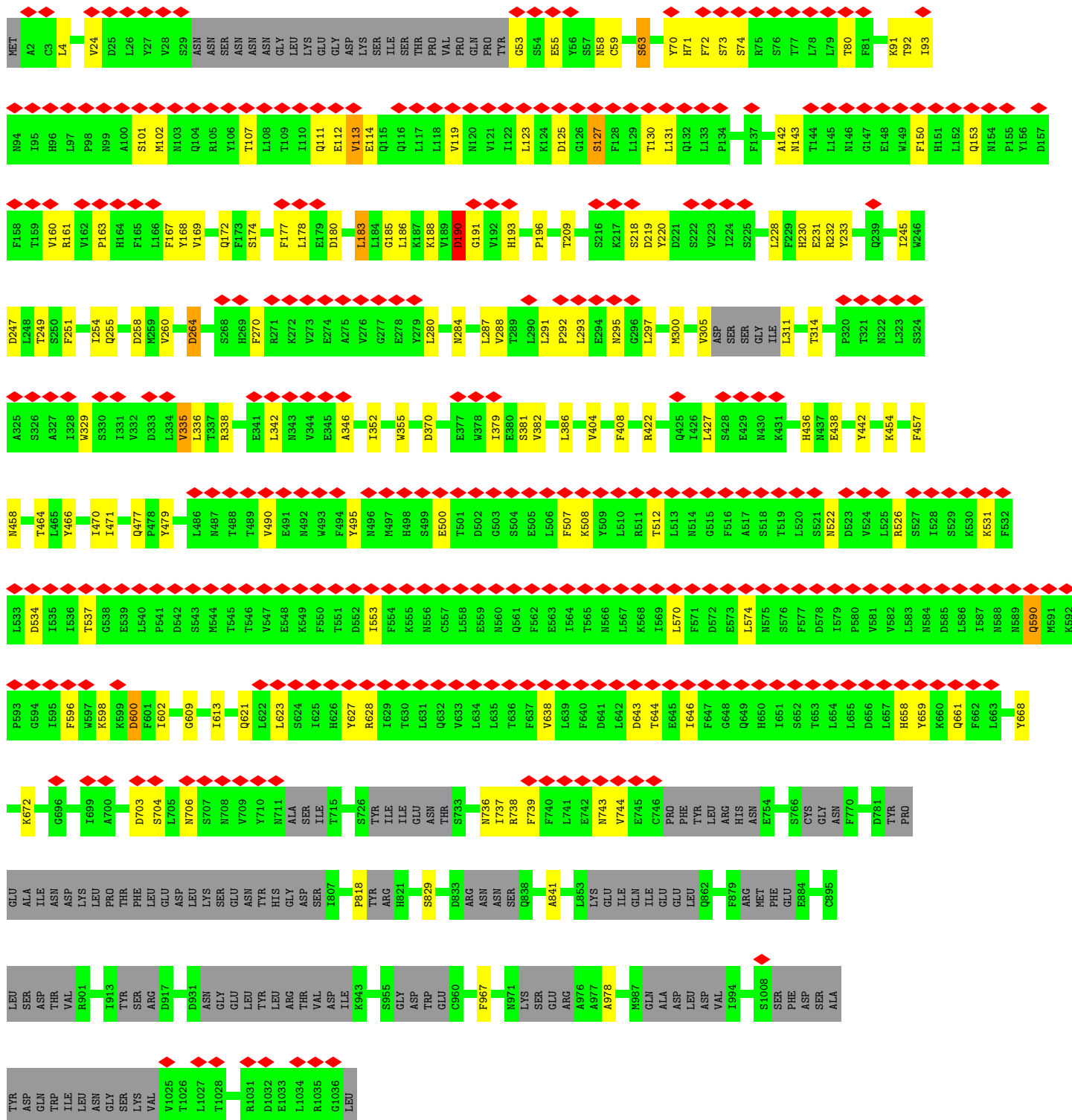


• Molecule 27: SEH1

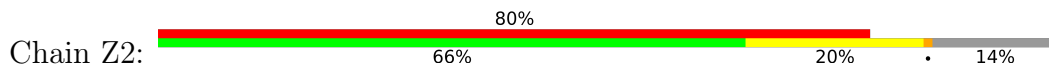




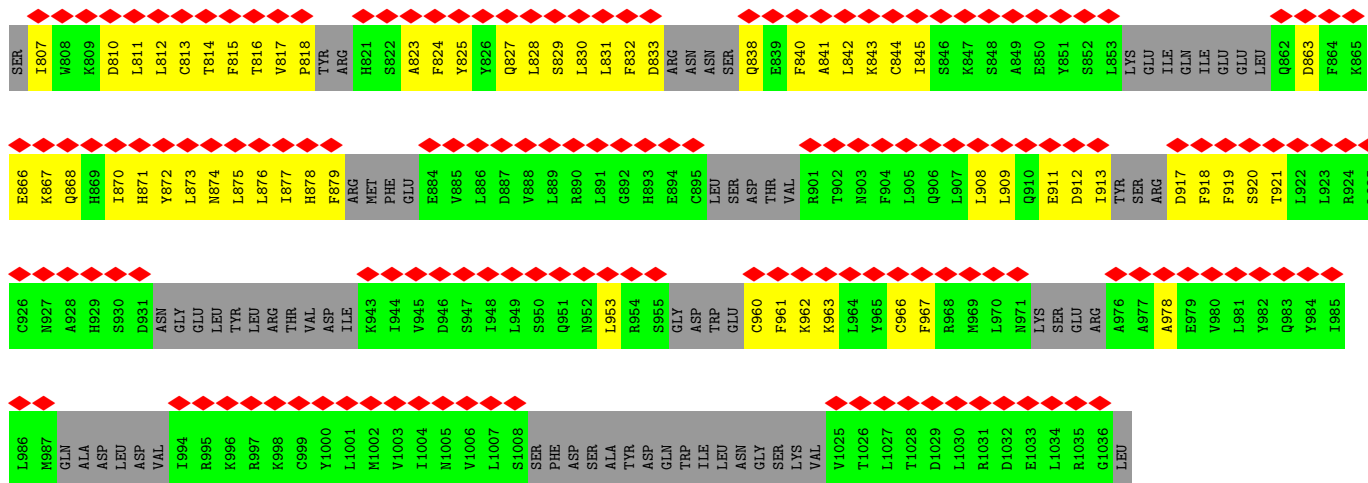
• Molecule 28: NUP160



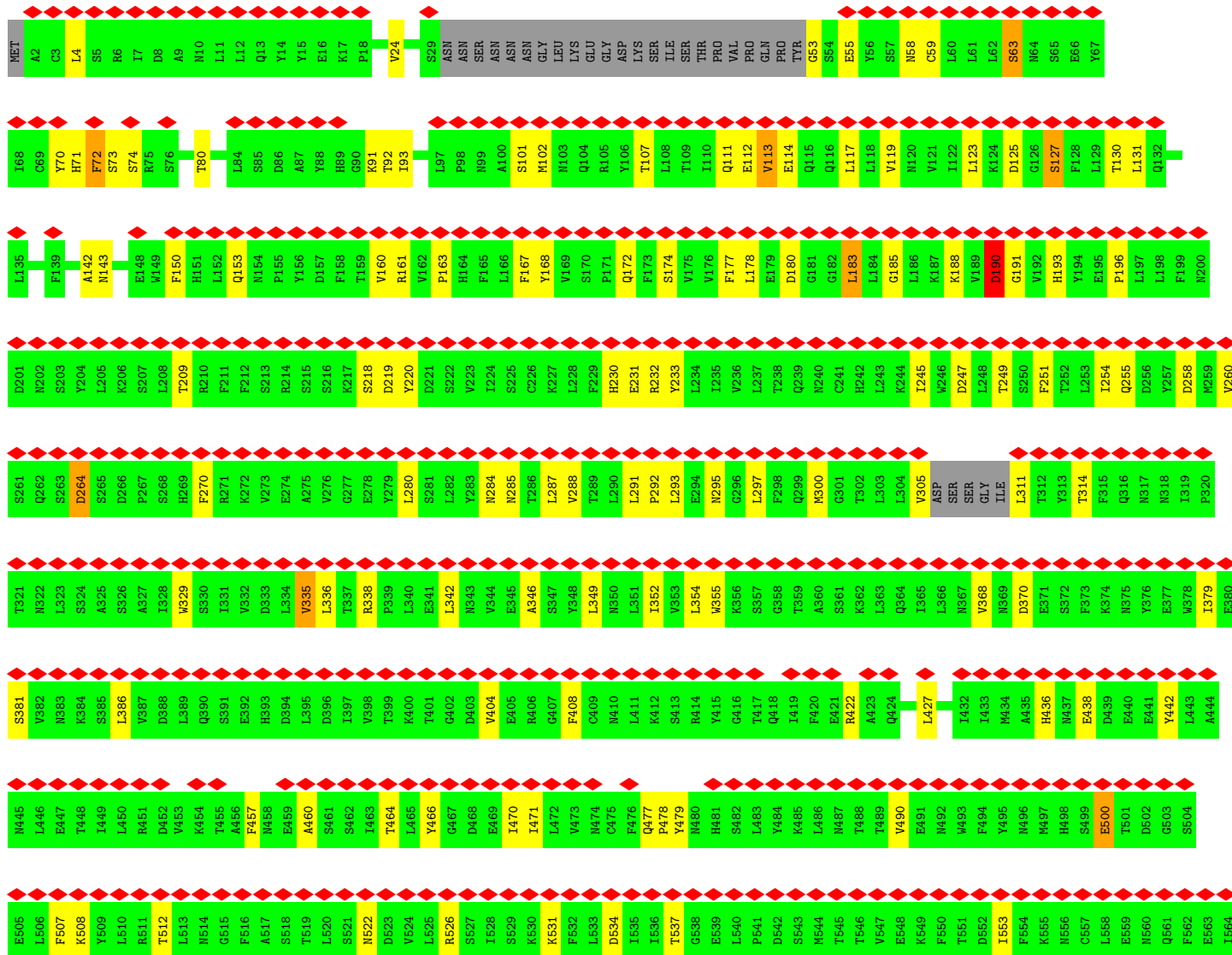
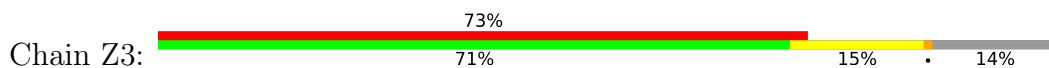
• Molecule 28: NUP160

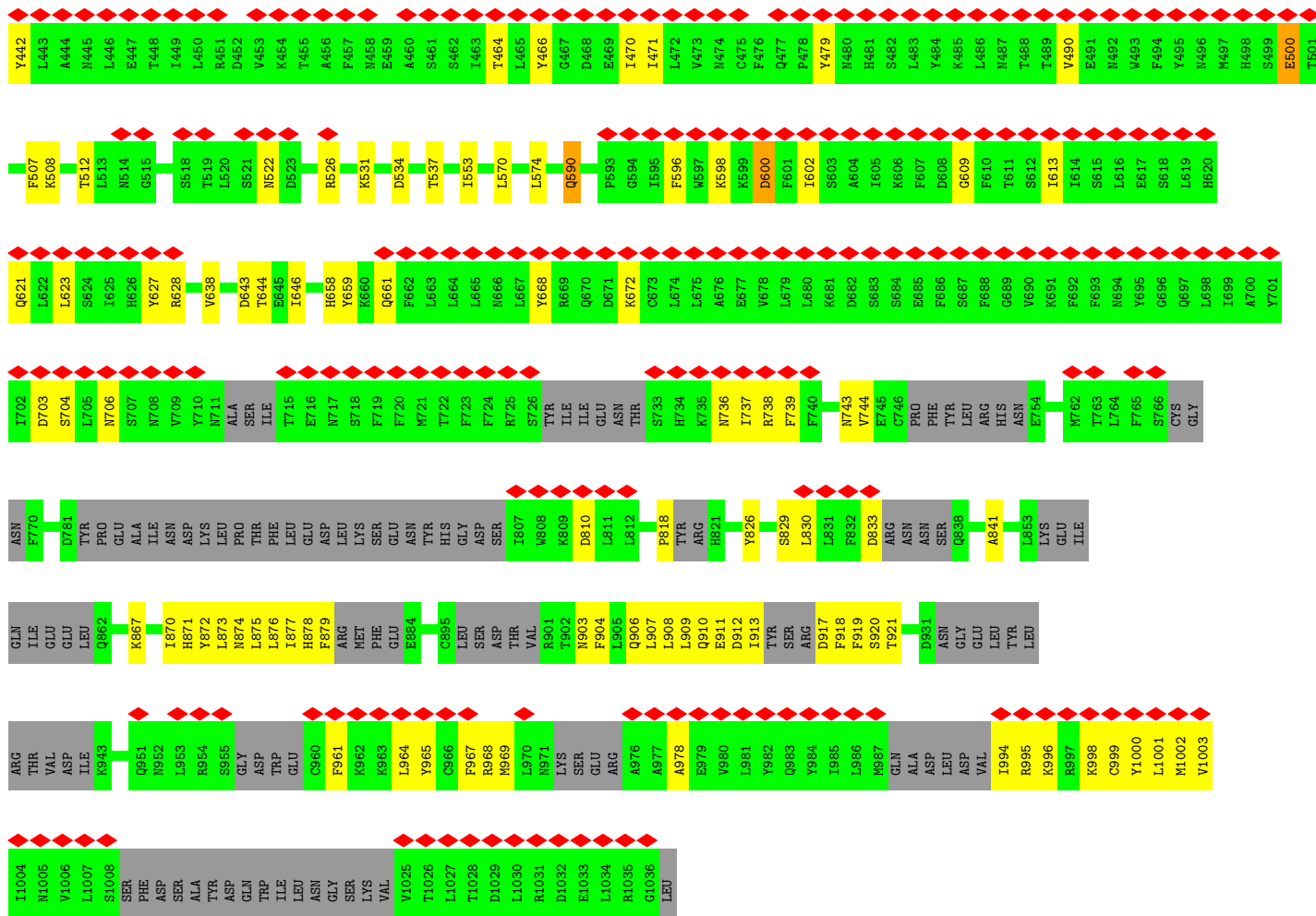


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V121	I122	L123	K124	D125	G126	S127	L128	T129	T130	L131	L132	L133	L134	L135	S136	F137	L138	F139	S140	S141	A142	M143	T144	L145	S146	R147	E148	V149	F150	H151	L152	Q153	V154	R155	V156	P157	H158	V159	S160	F161	P162	S163	H164	F165	L166	D167	L248	T249	S250	V251	I252	Q253	D254	D255	Y256	D257	D258	M259	V260	S261	N262	L263	S264	S265																																																							
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H626	Y627	R628	I629	T630	L631	Q632	V633	L634	L635	T636	F637	V638	L639	F640	D641	L642	D643	T644	E645	I646	F647	G648	Q649	H650	I651	S652	T653	L654	L655	D656	L657	H658	Y659	K660	Q661	F662	L663	L664	L665	N666	Y667	Y668	R669	Q670	D671	K672	C673	L674	L675	A676	E677	V678	L679	L680	K681	D682	S683	S684	E685																																																												
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C746	PRO	PHE	THR	LEU	ARG	HIS	ASN	E754	V755	Q756	E757	F758	N759	F760	A761	M762	T763	L764	F765	S766	CYS	GLY	ASN	F770	D771	Q772	S773	Y774	E775	L776	F777	Q778	L779	H780	D781	TYR	PRO	GLU	ALA	ILE	ASN	ASP	LYS	LEU	PRO	THR	PHE	GLU	LEU	ASN	THR	S733	H734	K735	L736	I737	N738	H739	F739	F740	L741	E742	N743	V744	E745																																																						

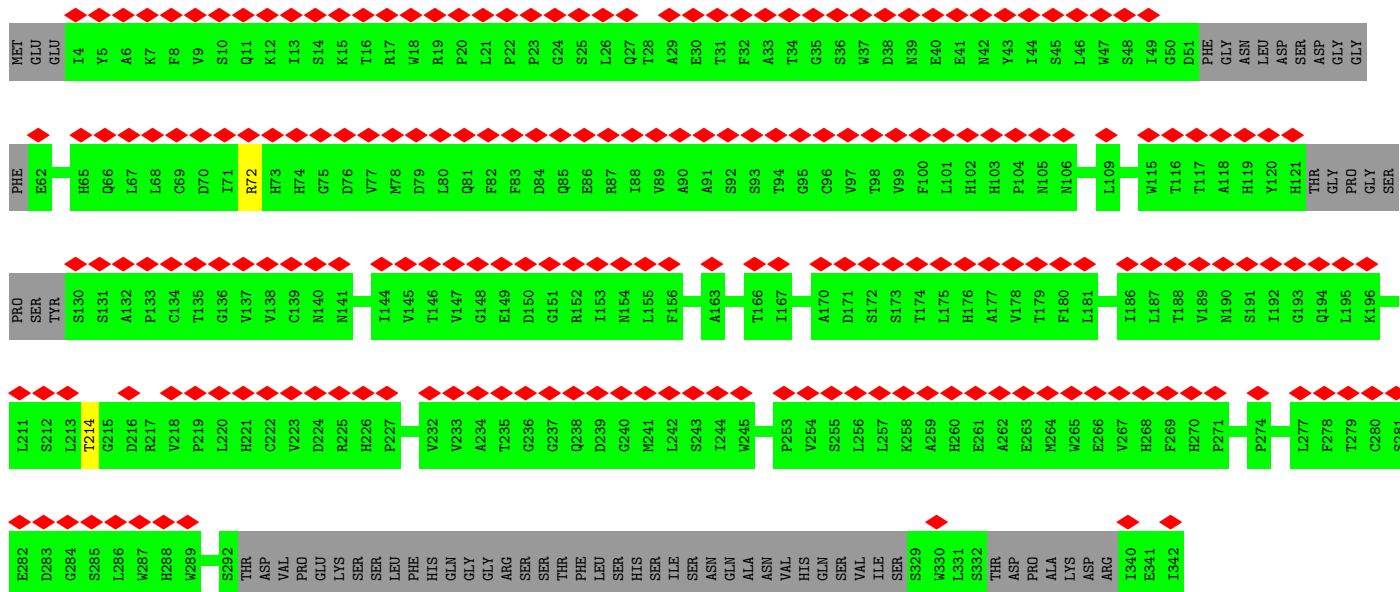
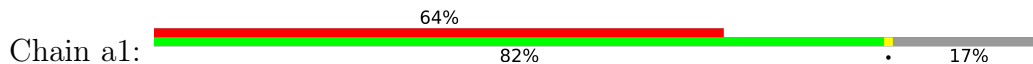


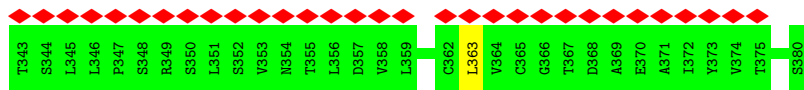
• Molecule 28: NUP160





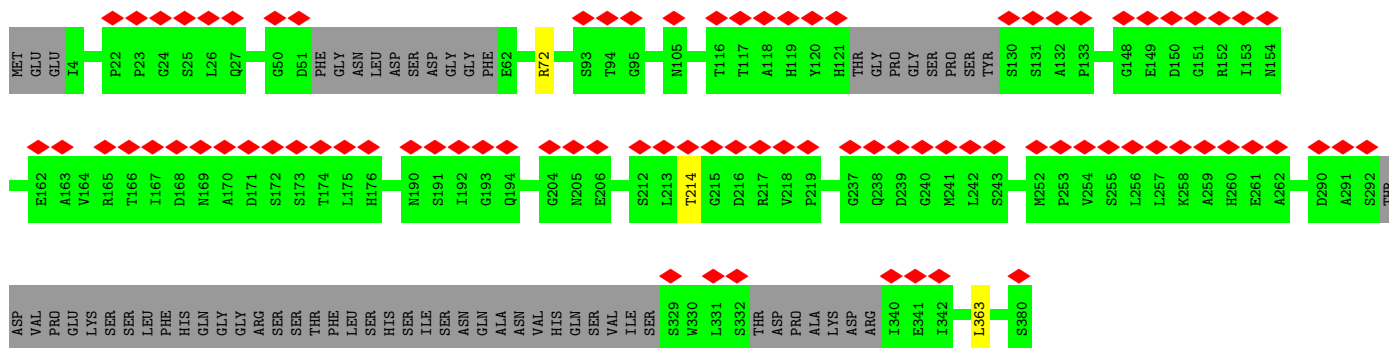
• Molecule 29: NUP43





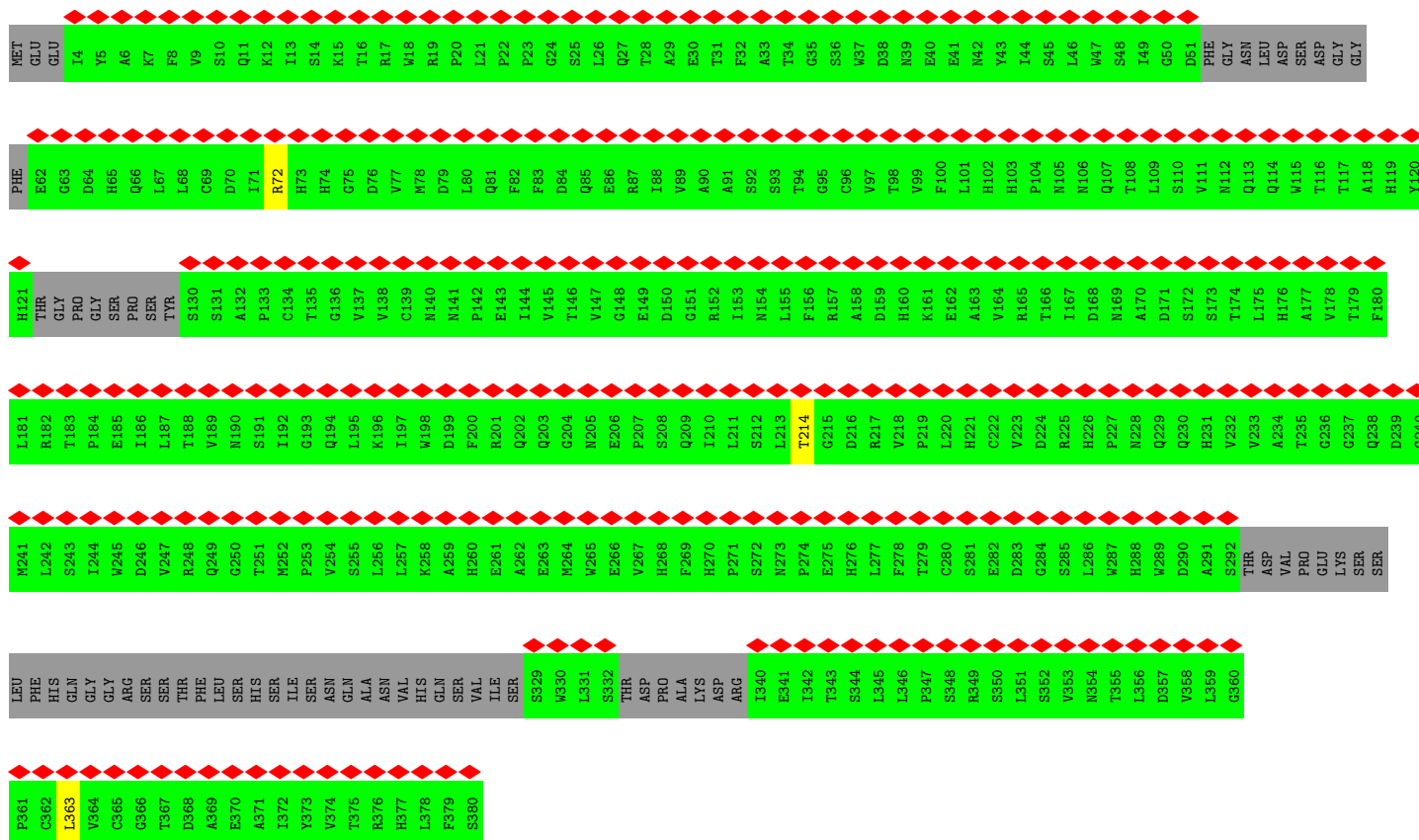
• Molecule 29: NUP43

Chain a2:



• Molecule 29: NUP43

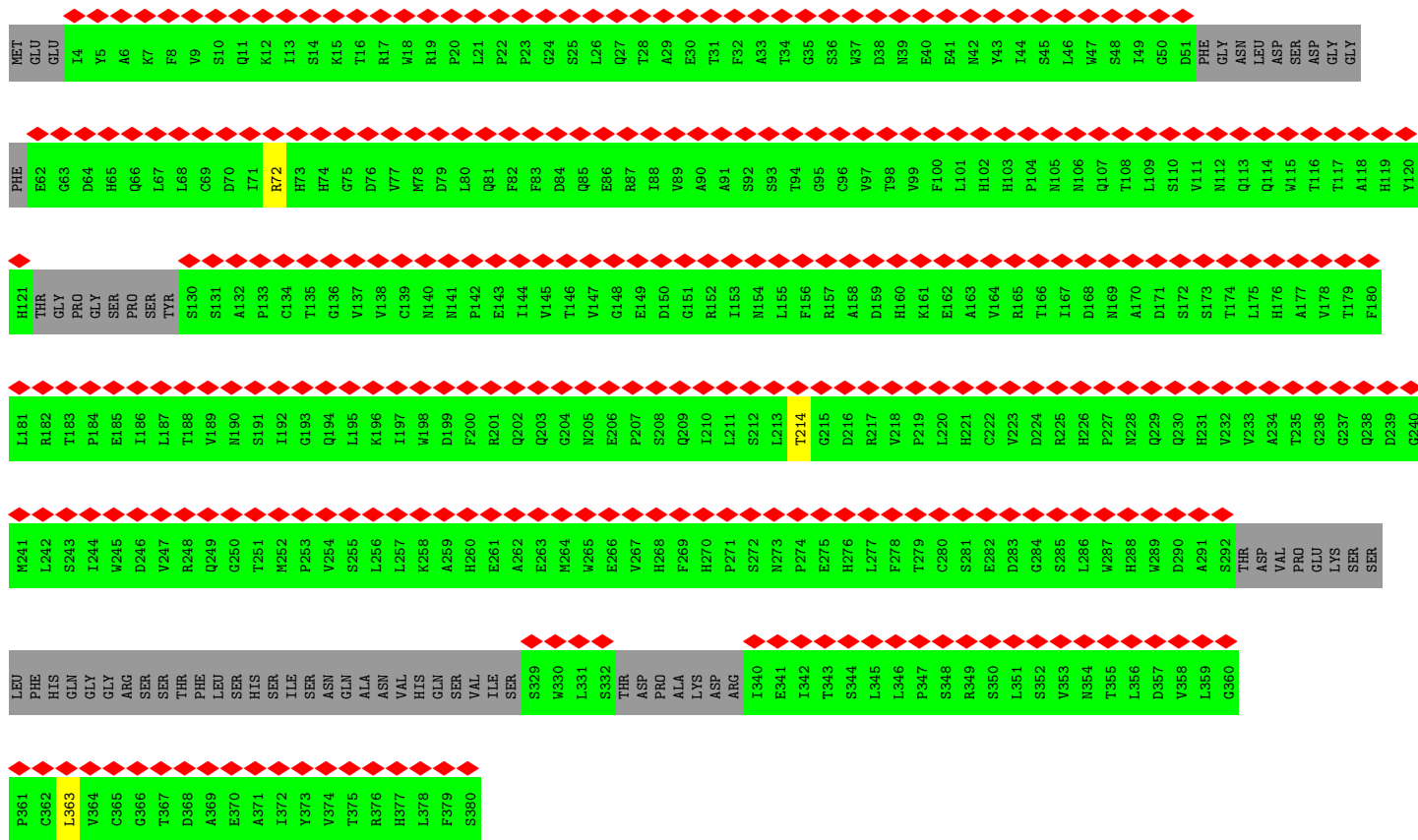
Chain a3:



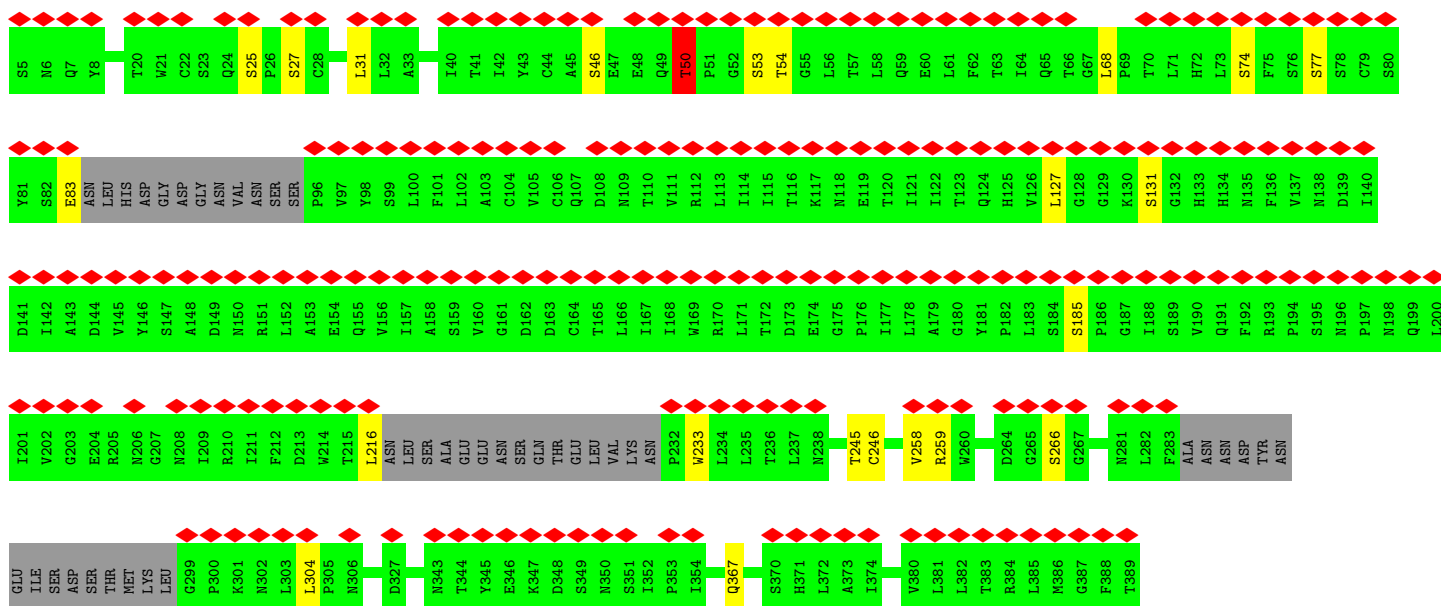
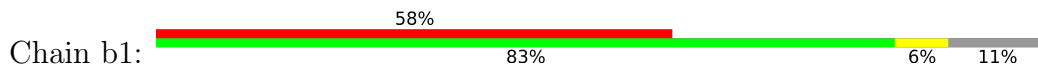
• Molecule 29: NUP43

Chain a4:

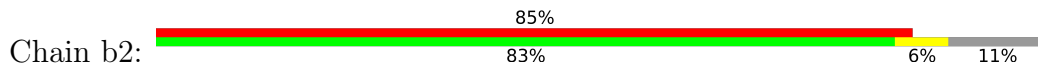


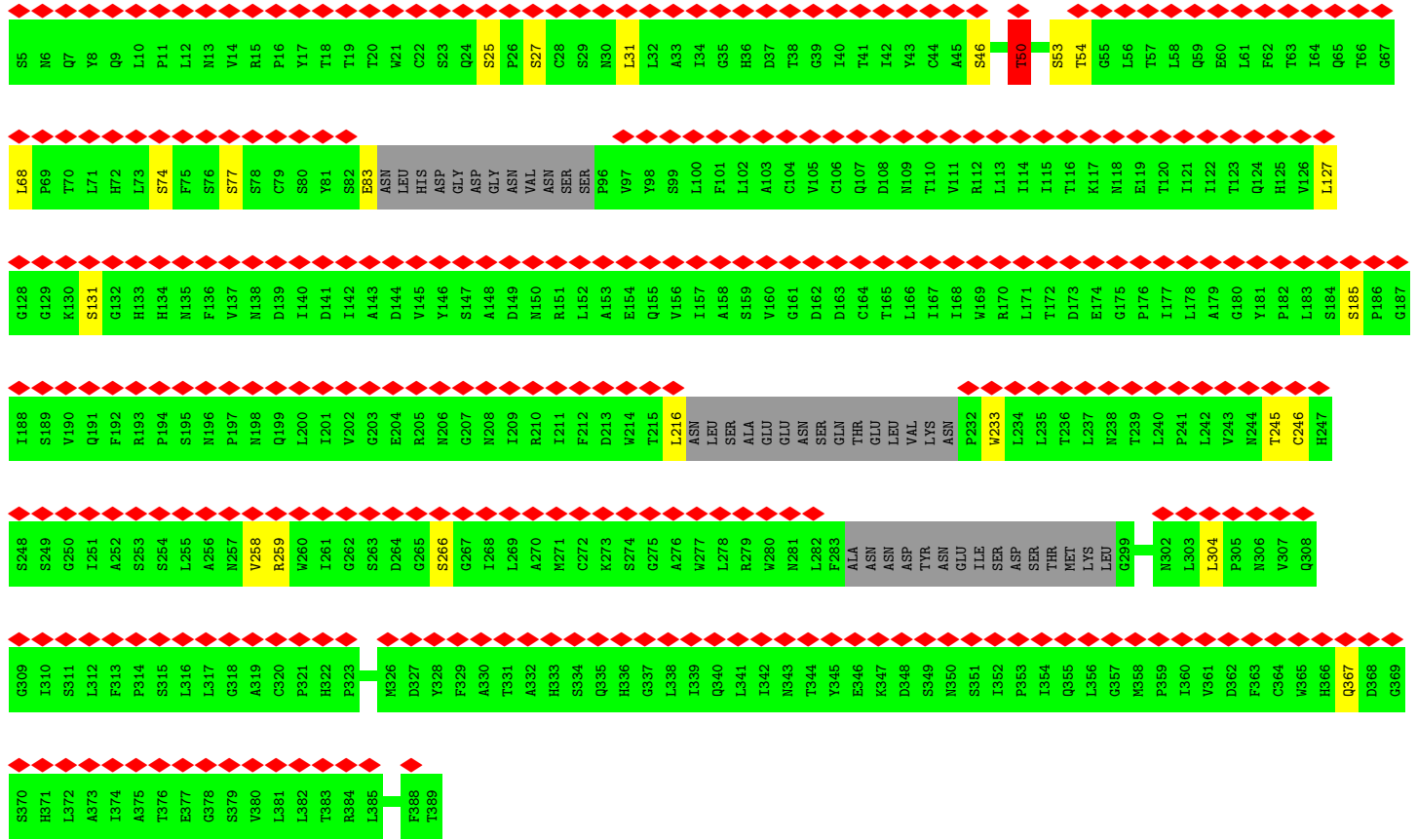


• Molecule 30: NUP37

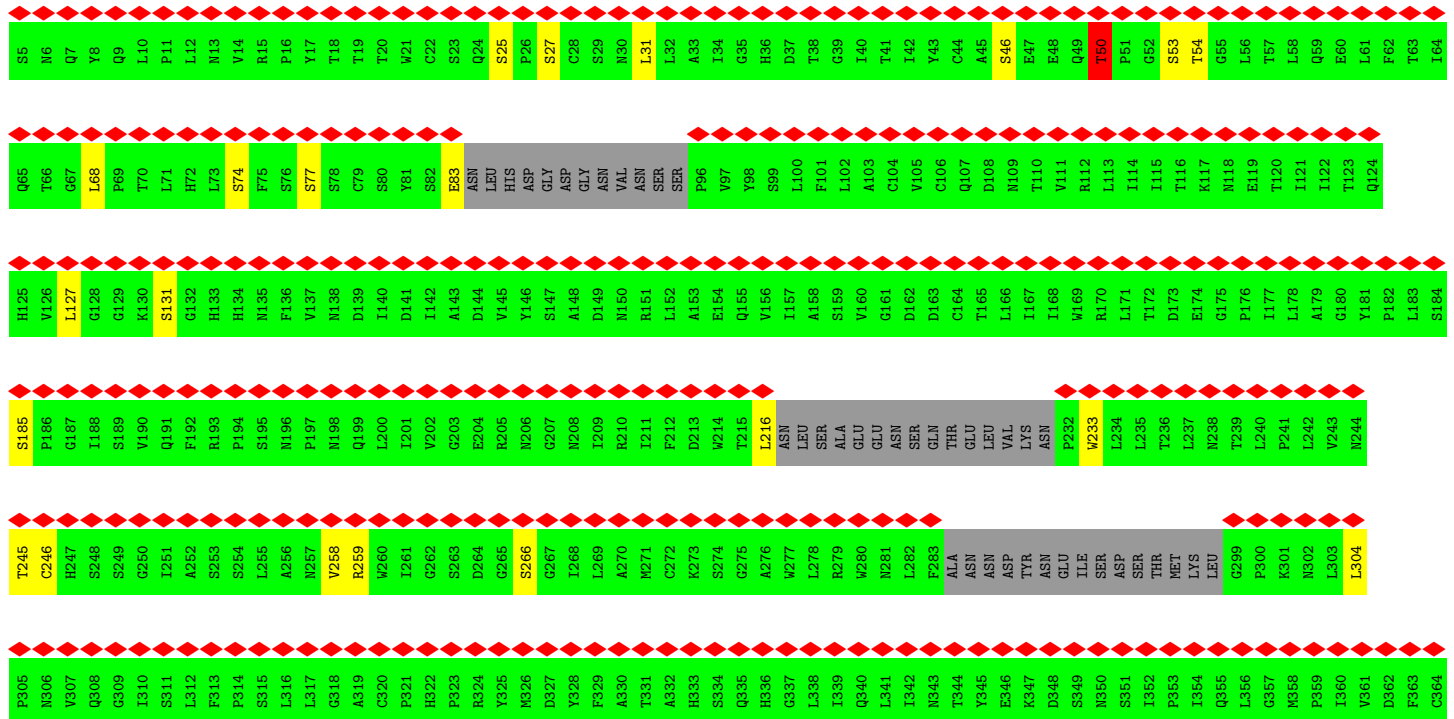
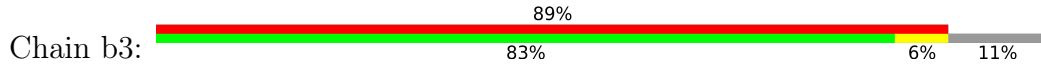


• Molecule 30: NUP37

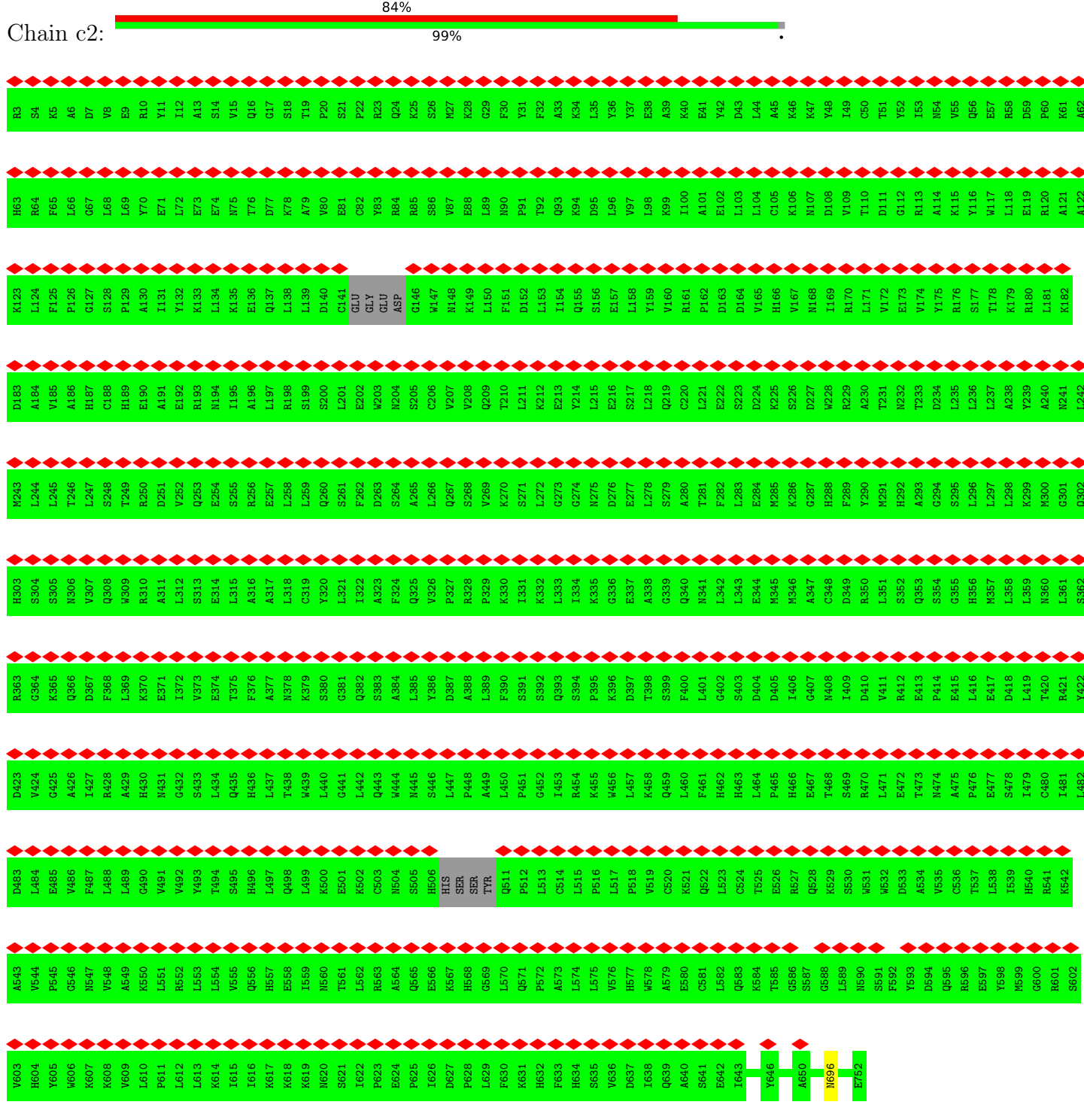




• Molecule 30: NUP37

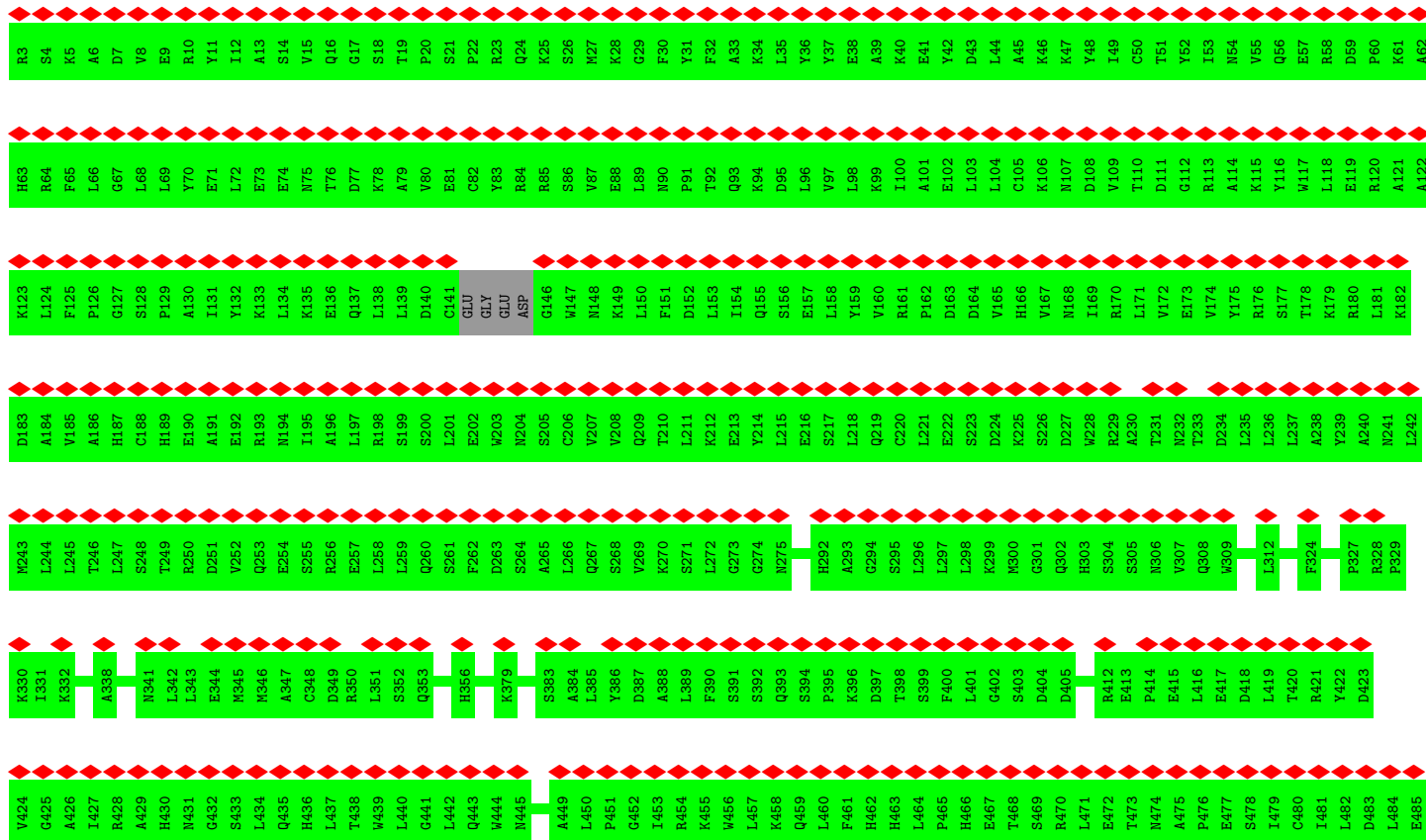


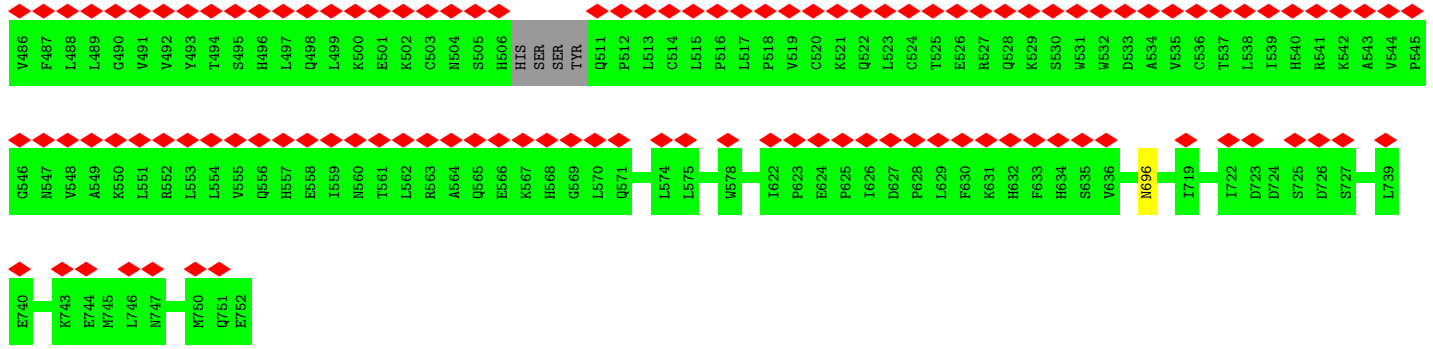
• Molecule 31: NUP358



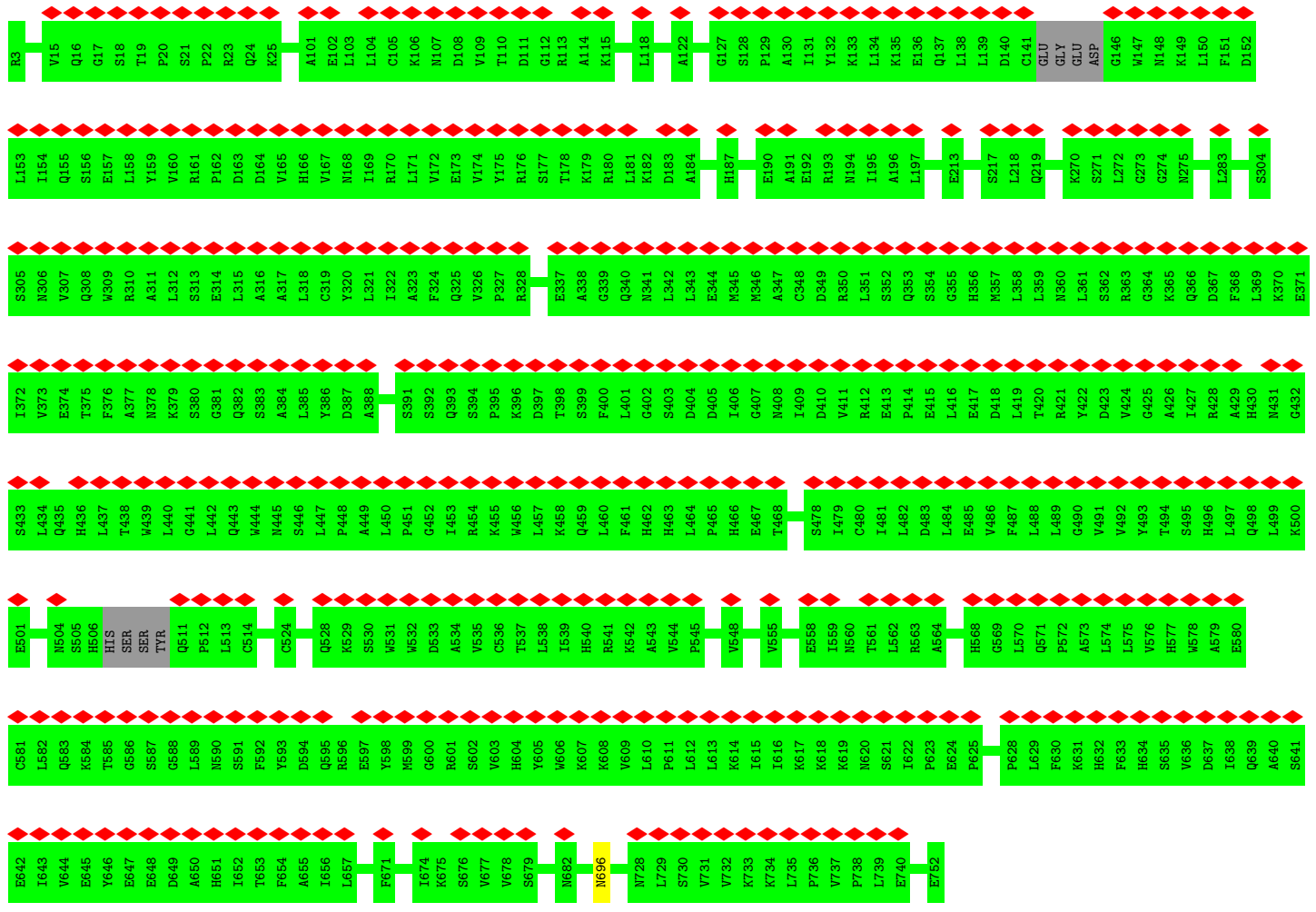


• Molecule 31: NUP358

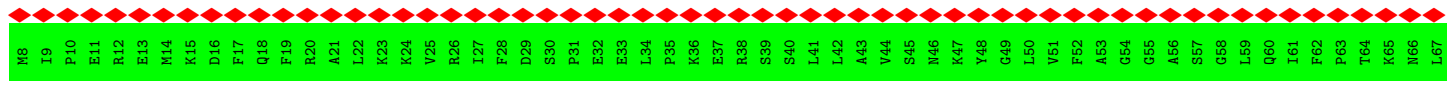
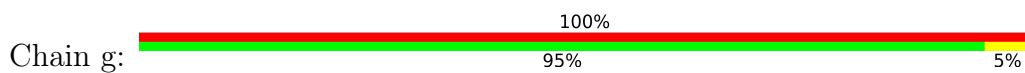




• Molecule 31: NUP358



• Molecule 32: NUP214 NTD



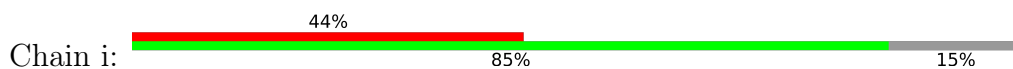
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Q70	N130	L190	G250	I310	T370	
N71	E131	S191	T251	E311	N371	
K72	A132	T192	Y252	E312	Q372	
P73	K133	V193	V253	W313	V373	
G74	Q134	A194	F254	D314	E374	
D75	Q135	V195	A255	L315	L375	
D76	K136	T196	I256	V316	T376	
P77	R137	S197	V257	L317	I377	
N78	P138	V198	Y258	A318	S378	
K79	F139	C199	A259	A319	D379	
I80	W200	W200	A260	S320	E380	
V81	A140	S201	A261	A321	K381	
D82	Y141	P202	D262	A322	T382	
K83	H142	P202	G263	S323	L383	
V84	K143	K203	G264	T324	P384	
Q85	L144	G204	L265	E325	P385	
G86	K146	Q206	E266	V326	A386	
L87	D147	L207	T267	S327	P387	
V88	A148	A208	S268	I328	V388	
P90	G149	V209	P269	L329	L389	
M91	G150	G210	D270	A330	M990	
K92	M151	K211	V271	R331	L391	
F93	V152	Q212	V272	Q332	L392	
P94	I153	N213	M273	S333	S393	
I95	D154	G214	A274	D334	T394	
H96	M155	T215	L275	Q335	D395	
L98	K156	V216	L276	I336	G396	
A99	K157	V217	P277	N337	V397	
L100	M158	Q218	K278	W338	L398	
C102	P159	Y219	K279	E339	C399	
D103	T160	L220	E280	S340	F400	
N104	V161	P221	E281	W341	F401	
T106	P162	T222	K282	L342	Y402	
L107	S163	L223	H283	L343	N403	
S108	M164	Q224	P284	E344	I404	
A109	V165	E225	E285	D345	N405	
C110	A166	K226	I286	S346	Q406	
M111	F167	K227	F287	S347	N407	
M112	C168	V228	V288	R348	F408	
M113	L169	I229	N289	A349	G409	
S114	A170	P230	F290	E350	V410	
E115	D171	C231	M291	L351	K411	
Y116	G172	P232	E292	P352	S412	
G117	S173	P233	P293	W353	L413	
S118	I174	F234	C294	T354	I414	
I119	A175	Y235	Y295	K355	K415	
I120	V176	E236	G296	S356	T416	
A121	L177	S237	S297	S357	P417	
F122	Q178	D238	C298	D358	E418	
F123	V179	H239	T299	D359	R419	
D124	T180	P240	E300	S360	L420	
V125	A181	V241	R301	L361	S421	
R126	T182	R242	Q302	F362	L422	
T127	V183	V243	H303	N363	E423	
	K184	L244	H304	G364	G424	
	V185	D245	V305	V365	E425	
	C186	V246	Y306	V366	R426	
	A187	L247	L307	V367	Q427	

• Molecule 33: DDX19



M69	E129	Y189	A249	G1N	L13
L70	P130	P190	T250	SER	V14
V71	P131	E191	Q251	PRO	Q15
D72	Q132	L192	G252	THR	N33
M73	N133	K193	H253	GLU	GLN
T74	L134	L194	Q254	PRO	SER
M75	I135	A195	D255	GLU	PRO
Q76	A136	Y196	Q256	ALA	THR
V77	Q137	A197	S257	GLU	GLU
E78	S138	V198	I258	ALA	GLU
V79	Q139	R199	R259	LYS	LYS
L80	S140	G200	I260	PRO	PRO
Q81	G141	N201	Q261	ALA	ALA
R82	T142	K202	R262	SER	SER
D83	G143	L203	M263	SER	SER
P84	K144	E204	L264	LEU	LEU
M85	T145	R205	P265	PRO	PRO
S86	A146	G206	R266	SER	SER
P87	A147	Q207	N267	PRO	PRO
L88	F148	K208	Q268	PRO	PRO
Y89	V149	Q269	Q269	GLN	GLN
S90	L150	M270	M270	L55	L55
W91	A151	L271	L271	G65	G65
K92	M152	L272	L272	G66	G66
S93	L153	F273	F273	L83	L83
F94	S154	S274	S274	R84	R84
E95	Q155	A275	A275	G85	G85
E96	V156	T276	T276	P277	P277
L97	E157	E278	E278	PRO	PRO
R98	P158	D279	D279	SER	SER
L99	A159	G219	G219	GLY	GLY
K100	M160	T220	T220	GLY	GLY
P101	K161	V221	V221	GLU	GLU
Q102	Y162	L222	L222	PRO	PRO
L103	P163	D223	D223	A94	A94
L104	Q164	W224	W224	G141	G141
Q105	C165	C225	C225	K142	K142
G106	L166	S226	S226	N143	N143
V107	C167	K227	K227	S144	S144
Y108	L168	L228	L228	S215	S215
A109	S169	K229	K229	GLU	GLU
M110	P170	F230	F230	ALA	ALA
G111	T171	I231	I231	GLU	GLU
F112	Y172	D232	D232	GLU	GLU
M113	E173	P233	P233	SER	SER
R114	L174	K234	K234	LEU	LEU
P115	A175	K235	K235	VAL	VAL
S116	L176	I236	I236	LEU	LEU
K117	Q177	K237	K237	ASN	ASN
I118	T178	V238	V238		
Q119	G179	F239	F239		
E120	K180	V240	V240		
M121	V181	L241	L241		
L122	I182	D242	D242		
P124	E183	E243	E243		
M125	Q184	A244	A244		
L126	M185	D245	D245		
M127	K187	V246	V246		
A128	F188	M247	M247		
		I248	I248		

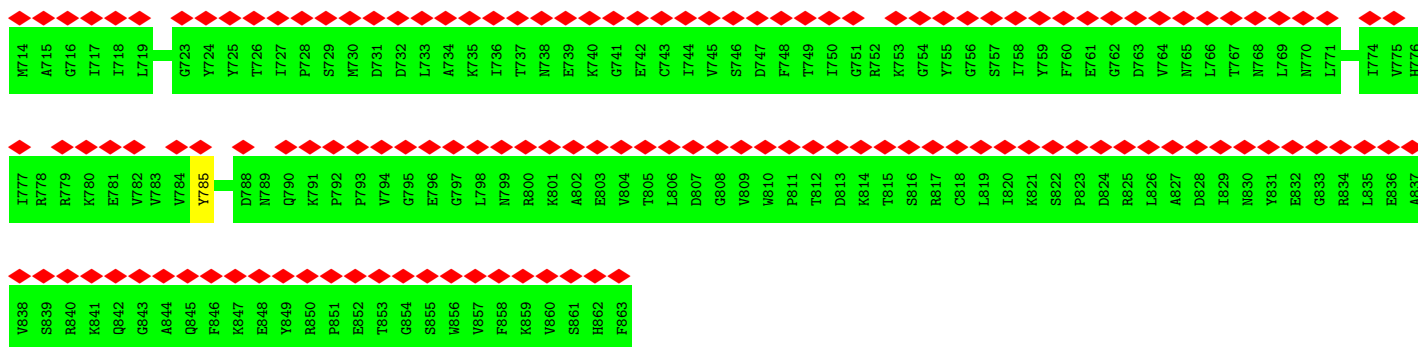
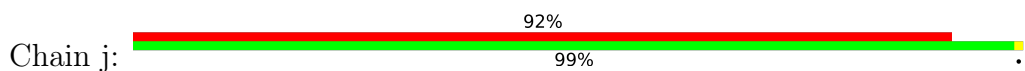
• Molecule 34: NUP88 NTD



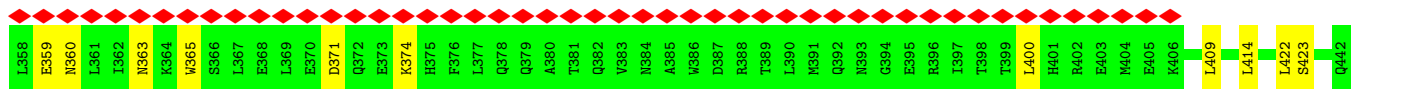
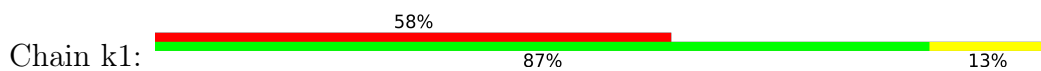
L13	G1N	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
V14	SER	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
Q15	PRO	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
N33	THR	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
SER	GLU	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
PRO	ALA	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
GLU	LYS	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
ALA	PRO	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
SER	ALA	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
SER	GLU	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
SER	LEU	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
LEU	VAL	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
LEU	ASN	L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300
ASN		L55	G65	L83	R84	G85	P277	E278	D279	S280	V281	K283	F284	A285	Q286	K287	V288	V289	P290	D291	N293	V294	I295	K296	L297	K298	R299	E300



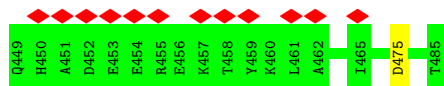
• Molecule 35: NUP98 APD



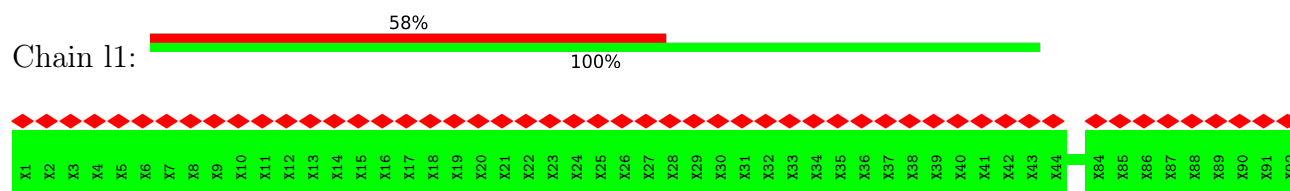
• Molecule 36: NUP62 CCS1



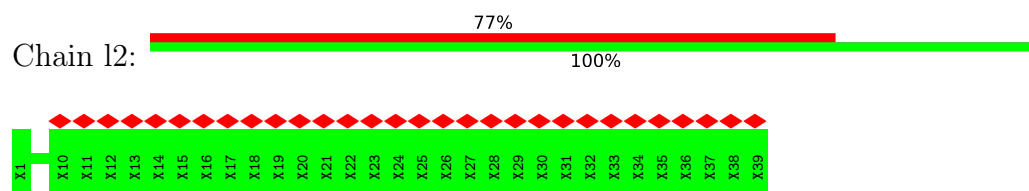
• Molecule 37: NUP62 CCS2



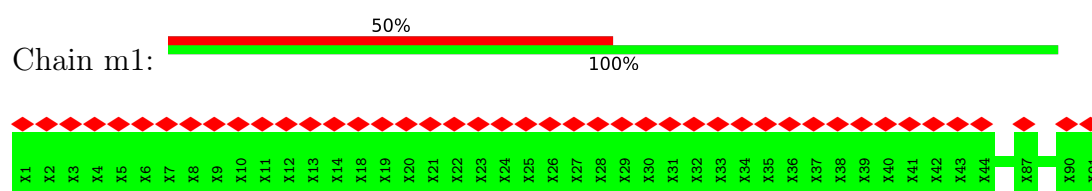
• Molecule 38: NUP214 CCS1



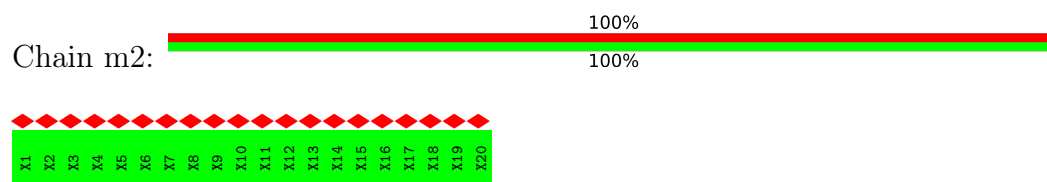
- Molecule 39: NUP214 CCS2



- Molecule 40: NUP88 CCS1



- Molecule 41: NUP88 CCS2



4 Experimental information

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.28	1/9926 (0.0%)	0.44	0/13474
1	A3	0.29	1/9926 (0.0%)	0.44	0/13474
2	A2	0.25	0/10133	0.45	0/13731
2	A4	0.25	0/10133	0.45	0/13731
3	A5	0.26	1/10216 (0.0%)	0.43	0/13838
3	A6	0.26	1/10216 (0.0%)	0.43	0/13838
4	B1	0.25	0/112	0.48	0/149
4	B2	0.25	0/112	0.48	0/149
4	B3	0.25	0/112	0.48	0/149
4	B4	0.25	0/112	0.48	0/149
4	B5	0.26	0/112	0.48	0/149
4	B6	0.26	0/112	0.48	0/149
5	C1	0.39	0/140	0.50	0/188
5	C2	0.30	0/160	0.53	0/214
5	C3	0.39	0/140	0.50	0/188
5	C4	0.31	0/160	0.53	0/214
5	C5	0.39	0/140	0.50	0/188
5	C6	0.39	0/140	0.50	0/188
6	D1	0.27	0/5130	0.43	0/6930
6	D2	0.27	0/5130	0.43	0/6930
6	D3	0.27	0/5130	0.43	0/6930
6	D4	0.27	0/5130	0.43	0/6930
6	D5	0.27	0/5130	0.43	0/6930
6	D6	0.28	0/5130	0.43	0/6930
6	D7	0.27	0/5130	0.43	0/6930
7	E1	0.25	0/65	0.41	0/89
7	E2	0.25	0/65	0.41	0/89
7	E3	0.25	0/65	0.42	0/89
7	E4	0.24	0/65	0.41	0/89
7	E5	0.24	0/65	0.42	0/89
7	E6	0.24	0/65	0.41	0/89
7	E7	0.24	0/65	0.42	0/89
8	F1	0.24	0/13031	0.39	0/17717
8	F2	0.24	0/13031	0.39	0/17717

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
9	G1	0.23	0/445	0.38	0/600
9	G2	0.23	0/445	0.38	0/600
10	H1	0.26	0/95	0.37	0/128
10	H2	0.26	0/95	0.37	0/128
11	I1	0.23	0/12541	0.36	0/16980
11	I2	0.23	0/12541	0.35	0/16980
11	I3	0.23	0/12541	0.36	0/16980
11	I4	0.23	0/12541	0.36	0/16980
11	I5	0.23	0/12541	0.36	0/16980
12	J1	0.23	0/511	0.37	0/688
12	J2	0.24	0/511	0.37	0/688
12	J3	0.23	0/511	0.37	0/688
12	J4	0.23	0/511	0.37	0/688
12	J5	0.23	0/511	0.37	0/688
13	K1	0.23	0/75	0.40	0/101
13	K2	0.23	0/75	0.39	0/101
13	K3	0.23	0/75	0.39	0/101
13	K4	0.24	0/75	0.39	0/101
13	K5	0.24	0/75	0.40	0/101
14	L1	0.29	0/15	0.16	0/18
14	L2	0.29	0/15	0.17	0/18
14	L3	0.26	0/15	0.19	0/18
14	L4	0.28	0/15	0.19	0/18
14	L5	0.30	0/15	0.18	0/18
15	M1	0.26	0/1388	0.39	0/1866
15	M2	0.26	0/1388	0.40	0/1866
15	M3	0.26	0/1388	0.39	0/1866
15	M4	0.26	0/1388	0.39	0/1866
16	N1	0.24	0/1413	0.38	0/1898
16	N2	0.25	0/1413	0.38	0/1898
16	N3	0.24	0/1413	0.38	0/1898
16	N4	0.25	0/1413	0.38	0/1898
17	O1	0.26	0/2011	0.41	0/2715
17	O2	0.26	0/2011	0.41	0/2715
17	O3	0.26	0/2011	0.41	0/2715
17	O4	0.26	0/2011	0.41	0/2715
18	P1	0.37	0/910	0.51	0/1228
18	P2	0.37	0/910	0.51	0/1228
18	P3	0.37	0/910	0.51	0/1228
18	P4	0.37	0/910	0.51	0/1228
19	Q1	0.50	0/672	0.59	0/898
19	Q2	0.49	0/629	0.61	0/842
19	Q3	0.50	0/672	0.59	0/898

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
19	Q4	0.49	0/629	0.61	0/842
20	R1	0.23	0/312	0.38	0/416
20	R2	0.23	0/312	0.38	0/416
20	R3	0.23	0/312	0.38	0/416
20	R4	0.23	0/312	0.38	0/416
21	S1	0.84	6/6081 (0.1%)	0.83	18/8304 (0.2%)
21	S2	0.84	6/6081 (0.1%)	0.83	19/8304 (0.2%)
21	S3	0.84	6/6081 (0.1%)	0.83	18/8304 (0.2%)
21	S4	0.84	6/6081 (0.1%)	0.83	18/8304 (0.2%)
22	T1	0.24	0/2037	0.41	0/2749
22	T2	0.24	0/2037	0.41	0/2749
22	T3	0.24	0/2037	0.41	0/2749
22	T4	0.24	0/2037	0.41	0/2749
23	U1	0.36	0/3463	0.64	2/4700 (0.0%)
23	U2	0.36	0/3472	0.64	2/4714 (0.0%)
23	U3	0.36	0/3472	0.64	2/4714 (0.0%)
23	U4	0.36	0/3472	0.64	2/4714 (0.0%)
24	V1	0.37	0/3860	0.66	2/5224 (0.0%)
24	V2	0.37	0/3860	0.66	2/5224 (0.0%)
24	V3	0.37	0/3860	0.66	2/5224 (0.0%)
24	V4	0.37	0/3860	0.66	2/5224 (0.0%)
25	W1	0.32	0/2220	0.62	0/3028
25	W2	0.32	0/2220	0.62	0/3028
25	W3	0.32	0/2220	0.62	0/3028
25	W4	0.32	0/2220	0.62	0/3028
26	X1	0.31	0/4602	0.58	2/6246 (0.0%)
26	X2	0.31	0/4602	0.58	2/6246 (0.0%)
26	X3	0.31	0/4602	0.58	2/6246 (0.0%)
26	X4	0.31	0/4602	0.58	2/6246 (0.0%)
27	Y1	0.28	0/2499	0.64	0/3388
27	Y2	0.28	0/2499	0.64	0/3388
27	Y3	0.28	0/2499	0.64	0/3388
27	Y4	0.28	0/2499	0.64	0/3388
28	Z1	0.33	0/6730	0.55	1/9158 (0.0%)
28	Z2	0.33	0/6730	0.55	1/9158 (0.0%)
28	Z3	0.33	0/6730	0.55	1/9158 (0.0%)
28	Z4	0.33	0/6730	0.55	1/9158 (0.0%)
29	a1	0.78	0/2723	0.78	0/3715
29	a2	0.78	0/2723	0.78	0/3715
29	a3	0.78	0/2723	0.78	0/3715
29	a4	0.78	0/2723	0.78	0/3715
30	b1	0.33	0/2702	0.65	0/3689
30	b2	0.33	0/2702	0.65	0/3689

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
30	b3	0.33	0/2702	0.65	0/3689
30	b4	0.33	0/2702	0.65	0/3689
31	c1	0.25	0/6101	0.39	0/8248
31	c2	0.25	0/6098	0.39	0/8246
31	c3	0.25	0/6098	0.39	0/8246
31	c4	0.25	0/6098	0.39	0/8246
31	c5	0.25	0/6098	0.39	0/8246
32	g	0.67	0/3359	0.73	0/4572
33	h	0.68	0/1871	0.76	1/2530 (0.0%)
34	i	0.26	0/3398	0.45	0/4629
35	j	0.25	0/1223	0.43	0/1653
36	k1	0.36	0/727	0.47	0/977
37	k2	0.31	0/310	0.46	0/414
All	All	0.37	28/407133 (0.0%)	0.52	102/551943 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	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 (28) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	891	GLY	C-N	7.13	1.50	1.34
1	A3	891	GLY	C-N	7.09	1.50	1.34
21	S1	151	TRP	CE3-CZ3	7.06	1.50	1.38
21	S2	151	TRP	CE3-CZ3	7.04	1.50	1.38
21	S3	151	TRP	CE3-CZ3	7.04	1.50	1.38
21	S4	151	TRP	CE3-CZ3	6.94	1.50	1.38
3	A6	891	GLY	C-N	5.72	1.47	1.34
3	A5	891	GLY	C-N	5.70	1.47	1.34
21	S2	209	TYR	CE2-CZ	5.42	1.45	1.38
21	S1	209	TYR	CE2-CZ	5.42	1.45	1.38
21	S2	121	GLU	CG-CD	5.41	1.60	1.51
21	S1	121	GLU	CG-CD	5.41	1.60	1.51
21	S2	277	VAL	CB-CG1	5.40	1.64	1.52
21	S4	277	VAL	CB-CG1	5.39	1.64	1.52
21	S4	209	TYR	CE2-CZ	5.39	1.45	1.38
21	S3	209	TYR	CE2-CZ	5.38	1.45	1.38
21	S3	121	GLU	CG-CD	5.37	1.60	1.51
21	S4	121	GLU	CG-CD	5.37	1.60	1.51
21	S3	277	VAL	CB-CG1	5.34	1.64	1.52
21	S1	277	VAL	CB-CG1	5.33	1.64	1.52
21	S4	418	TYR	CD1-CE1	5.33	1.47	1.39
21	S1	418	TYR	CD1-CE1	5.29	1.47	1.39
21	S2	418	TYR	CD1-CE1	5.28	1.47	1.39
21	S3	418	TYR	CD1-CE1	5.18	1.47	1.39
21	S1	116	CYS	CB-SG	5.17	1.91	1.82
21	S2	116	CYS	CB-SG	5.11	1.91	1.82
21	S4	116	CYS	CB-SG	5.10	1.91	1.82
21	S3	116	CYS	CB-SG	5.06	1.90	1.82

All (102) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S1	685	PRO	N-CA-CB	8.59	113.61	103.30
21	S2	685	PRO	N-CA-CB	8.59	113.61	103.30
21	S4	685	PRO	N-CA-CB	8.59	113.60	103.30
21	S3	685	PRO	N-CA-CB	8.54	113.55	103.30
21	S3	377	ASP	CB-CG-OD2	8.04	125.53	118.30
21	S2	377	ASP	CB-CG-OD2	8.01	125.51	118.30
21	S1	377	ASP	CB-CG-OD2	7.99	125.49	118.30
21	S4	377	ASP	CB-CG-OD2	7.94	125.45	118.30
21	S2	680	PRO	N-CA-CB	7.05	111.76	103.30
21	S4	680	PRO	N-CA-CB	7.01	111.71	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S3	680	PRO	N-CA-CB	6.99	111.68	103.30
21	S1	680	PRO	N-CA-CB	6.96	111.65	103.30
21	S3	573	PRO	N-CA-CB	6.78	111.44	103.30
21	S2	573	PRO	N-CA-CB	6.77	111.42	103.30
21	S4	573	PRO	N-CA-CB	6.75	111.40	103.30
21	S1	573	PRO	N-CA-CB	6.70	111.34	103.30
26	X2	167	GLY	N-CA-C	-6.41	97.08	113.10
26	X3	167	GLY	N-CA-C	-6.40	97.09	113.10
26	X1	167	GLY	N-CA-C	-6.39	97.13	113.10
26	X4	167	GLY	N-CA-C	-6.38	97.15	113.10
21	S1	791	PRO	N-CA-CB	6.26	110.82	103.30
21	S3	791	PRO	N-CA-CB	6.22	110.76	103.30
21	S1	849	PRO	N-CA-CB	6.22	110.76	103.30
21	S3	849	PRO	N-CA-CB	6.20	110.74	103.30
21	S2	791	PRO	N-CA-CB	6.18	110.72	103.30
21	S4	849	PRO	N-CA-CB	6.18	110.71	103.30
21	S4	791	PRO	N-CA-CB	6.15	110.68	103.30
26	X2	608	PRO	N-CA-CB	6.14	110.67	103.30
21	S2	849	PRO	N-CA-CB	6.14	110.66	103.30
21	S1	386	VAL	CB-CA-C	-6.12	99.77	111.40
21	S4	386	VAL	CB-CA-C	-6.12	99.77	111.40
26	X1	608	PRO	N-CA-CB	6.12	110.64	103.30
26	X3	608	PRO	N-CA-CB	6.10	110.62	103.30
21	S2	386	VAL	CB-CA-C	-6.08	99.85	111.40
21	S3	386	VAL	CB-CA-C	-6.08	99.86	111.40
21	S4	300	ASP	CB-CG-OD1	6.06	123.76	118.30
26	X4	608	PRO	N-CA-CB	6.05	110.56	103.30
21	S3	300	ASP	CB-CG-OD1	6.04	123.74	118.30
24	V3	187	ASP	CB-CG-OD2	6.03	123.73	118.30
24	V4	187	ASP	CB-CG-OD2	6.02	123.72	118.30
24	V1	187	ASP	CB-CG-OD2	6.00	123.70	118.30
21	S1	300	ASP	CB-CG-OD1	5.99	123.69	118.30
24	V2	187	ASP	CB-CG-OD2	5.96	123.67	118.30
21	S3	382	MET	CG-SD-CE	-5.92	90.72	100.20
21	S2	300	ASP	CB-CG-OD1	5.90	123.61	118.30
21	S3	301	ASP	CB-CG-OD1	5.89	123.60	118.30
21	S4	382	MET	CG-SD-CE	-5.89	90.78	100.20
21	S2	382	MET	CG-SD-CE	-5.88	90.79	100.20
21	S1	382	MET	CG-SD-CE	-5.87	90.81	100.20
21	S1	301	ASP	CB-CG-OD1	5.80	123.52	118.30
21	S2	301	ASP	CB-CG-OD1	5.80	123.52	118.30
28	Z4	818	PRO	N-CA-CB	5.80	110.25	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	Z3	818	PRO	N-CA-CB	5.78	110.24	103.30
21	S1	628	PRO	N-CA-CB	5.78	110.23	103.30
21	S2	628	PRO	N-CA-CB	5.78	110.23	103.30
21	S3	628	PRO	N-CA-CB	5.76	110.21	103.30
21	S4	628	PRO	N-CA-CB	5.75	110.21	103.30
21	S4	301	ASP	CB-CG-OD1	5.74	123.47	118.30
28	Z2	818	PRO	N-CA-CB	5.71	110.15	103.30
28	Z1	818	PRO	N-CA-CB	5.70	110.14	103.30
21	S3	341	ARG	NE-CZ-NH2	-5.65	117.47	120.30
21	S4	341	ARG	NE-CZ-NH2	-5.65	117.47	120.30
21	S3	301	ASP	CB-CG-OD2	-5.61	113.25	118.30
24	V2	260	LEU	CB-CG-CD2	-5.56	101.55	111.00
24	V4	260	LEU	CB-CG-CD2	-5.54	101.59	111.00
21	S2	341	ARG	NE-CZ-NH2	-5.53	117.53	120.30
21	S2	301	ASP	CB-CG-OD2	-5.53	113.32	118.30
24	V1	260	LEU	CB-CG-CD2	-5.52	101.61	111.00
23	U3	24	ILE	N-CA-C	5.50	125.86	111.00
23	U1	24	ILE	N-CA-C	5.49	125.82	111.00
24	V3	260	LEU	CB-CG-CD2	-5.49	101.67	111.00
23	U4	24	ILE	N-CA-C	5.48	125.81	111.00
23	U2	24	ILE	N-CA-C	5.48	125.79	111.00
21	S4	301	ASP	CB-CG-OD2	-5.47	113.38	118.30
21	S1	185	ARG	NE-CZ-NH1	5.46	123.03	120.30
21	S1	301	ASP	CB-CG-OD2	-5.46	113.39	118.30
21	S4	185	ARG	NE-CZ-NH1	5.44	123.02	120.30
21	S2	146	PRO	N-CD-CG	-5.43	95.05	103.20
21	S4	146	PRO	N-CD-CG	-5.39	95.11	103.20
21	S1	146	PRO	N-CD-CG	-5.39	95.11	103.20
21	S3	146	PRO	N-CD-CG	-5.37	95.14	103.20
21	S4	349	CYS	CA-CB-SG	-5.36	104.34	114.00
21	S2	349	CYS	CA-CB-SG	-5.36	104.35	114.00
21	S1	349	CYS	CA-CB-SG	-5.36	104.36	114.00
21	S1	341	ARG	NE-CZ-NH2	-5.35	117.63	120.30
21	S3	349	CYS	CA-CB-SG	-5.33	104.40	114.00
21	S2	185	ARG	NE-CZ-NH1	5.29	122.94	120.30
21	S3	185	ARG	NE-CZ-NH1	5.22	122.91	120.30
21	S2	300	ASP	CB-CG-OD2	-5.12	113.70	118.30
21	S1	300	ASP	CB-CG-OD2	-5.11	113.70	118.30
21	S4	300	ASP	CB-CG-OD2	-5.11	113.70	118.30
21	S2	379	GLY	N-CA-C	-5.08	100.39	113.10
23	U4	24	ILE	CG1-CB-CG2	5.07	122.55	111.40
21	S4	379	GLY	N-CA-C	-5.07	100.43	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	S3	379	GLY	N-CA-C	-5.07	100.43	113.10
21	S1	379	GLY	N-CA-C	-5.06	100.44	113.10
21	S3	300	ASP	CB-CG-OD2	-5.06	113.75	118.30
33	h	248	ILE	CB-CA-C	-5.06	101.48	111.60
23	U2	24	ILE	CG1-CB-CG2	5.05	122.52	111.40
23	U1	24	ILE	CG1-CB-CG2	5.04	122.50	111.40
23	U3	24	ILE	CG1-CB-CG2	5.01	122.43	111.40
21	S2	392	GLN	CB-CA-C	-5.01	100.39	110.40

There are no chirality outliers.

All (38) planarity outliers are listed below:

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

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Mol	Chain	Res	Type	Group
30	b2	233	TRP	Peptide
30	b2	50	THR	Peptide
30	b2	53	SER	Peptide
30	b3	233	TRP	Peptide
30	b3	50	THR	Peptide
30	b3	53	SER	Peptide
30	b4	233	TRP	Peptide
30	b4	50	THR	Peptide
30	b4	53	SER	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	9730	0	9629	529	0
1	A3	9730	0	9573	2325	0
2	A2	9946	0	9774	1854	0
2	A4	9946	0	9656	5008	0
3	A5	10030	0	9892	1550	0
3	A6	10030	0	9732	6034	0
4	B1	111	0	127	1	0
4	B2	111	0	127	24	0
4	B3	111	0	127	1	0
4	B4	111	0	127	25	0
4	B5	111	0	122	38	0
4	B6	111	0	118	184	0
5	C1	138	0	144	26	0
5	C2	157	0	157	350	0
5	C3	138	0	144	8	0
5	C4	157	0	164	64	0
5	C5	138	0	144	23	0
5	C6	138	0	144	22	0
6	D1	5034	0	4999	1029	0
6	D2	5034	0	5029	82	0
6	D3	5034	0	4965	1769	0
6	D4	5034	0	5030	91	0
6	D5	5034	0	5024	58	0
6	D6	5034	0	5027	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	D7	5034	0	5027	126	0
7	E1	63	0	65	2	0
7	E2	63	0	65	2	0
7	E3	63	0	65	2	0
7	E4	63	0	65	2	0
7	E5	63	0	65	2	0
7	E6	63	0	65	2	0
7	E7	63	0	65	2	0
8	F1	12779	0	12916	379	0
8	F2	12779	0	12917	133	0
9	G1	438	0	404	211	0
9	G2	438	0	412	73	0
10	H1	94	0	84	0	0
10	H2	94	0	84	0	0
11	I1	12307	0	12271	3172	0
11	I2	12307	0	12280	3234	0
11	I3	12307	0	12354	443	0
11	I4	12307	0	12360	241	0
11	I5	12307	0	12347	527	0
12	J1	504	0	485	54	0
12	J2	504	0	485	55	0
12	J3	504	0	487	32	0
12	J4	504	0	487	30	0
12	J5	504	0	487	31	0
13	K1	73	0	82	0	0
13	K2	73	0	82	0	0
13	K3	73	0	82	0	0
13	K4	73	0	82	0	0
13	K5	73	0	82	0	0
14	L1	15	0	11	0	0
14	L2	15	0	11	0	0
14	L3	15	0	11	0	0
14	L4	15	0	11	0	0
14	L5	15	0	11	0	0
15	M1	1372	0	1333	715	0
15	M2	1372	0	1361	52	0
15	M3	1372	0	1332	573	0
15	M4	1372	0	1363	4	0
16	N1	1401	0	1375	720	0
16	N2	1401	0	1397	74	0
16	N3	1401	0	1383	611	0
16	N4	1401	0	1398	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	O1	1971	0	1943	906	0
17	O2	1971	0	1962	418	0
17	O3	1971	0	1935	1232	0
17	O4	1971	0	1961	236	0
18	P1	900	0	910	60	0
18	P2	900	0	910	42	0
18	P3	900	0	908	147	0
18	P4	900	0	907	119	0
19	Q1	658	0	645	3	0
19	Q2	616	0	600	3	0
19	Q3	658	0	645	3	0
19	Q4	616	0	600	3	0
20	R1	311	0	315	348	0
20	R2	311	0	334	2	0
20	R3	311	0	313	463	0
20	R4	311	0	334	2	0
21	S1	6013	0	4977	319	0
21	S2	6013	0	4980	325	0
21	S3	6013	0	4983	236	0
21	S4	6013	0	4979	233	0
22	T1	1993	0	1975	65	0
22	T2	1993	0	1981	68	0
22	T3	1993	0	1981	99	0
22	T4	1993	0	1981	71	0
23	U1	3396	0	3352	82	0
23	U2	3404	0	3326	76	0
23	U3	3404	0	3377	135	0
23	U4	3404	0	3378	79	0
24	V1	3805	0	3499	105	0
24	V2	3805	0	3499	109	0
24	V3	3805	0	3499	106	0
24	V4	3805	0	3499	110	0
25	W1	2160	0	2096	63	0
25	W2	2160	0	2096	75	0
25	W3	2160	0	2096	63	0
25	W4	2160	0	2096	125	0
26	X1	4535	0	4064	370	0
26	X2	4535	0	4032	155	0
26	X3	4535	0	4068	232	0
26	X4	4535	0	4071	146	0
27	Y1	2438	0	2378	55	0
27	Y2	2438	0	2378	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	Y3	2438	0	2378	63	0
27	Y4	2438	0	2378	56	0
28	Z1	6622	0	5893	80	0
28	Z2	6622	0	5883	487	0
28	Z3	6622	0	5893	83	0
28	Z4	6622	0	5885	305	0
29	a1	2587	0	2488	0	0
29	a2	2587	0	2488	0	0
29	a3	2587	0	2486	0	0
29	a4	2587	0	2488	0	0
30	b1	2638	0	2573	0	0
30	b2	2638	0	2573	0	0
30	b3	2638	0	2573	0	0
30	b4	2638	0	2573	0	0
31	c1	5980	0	5992	0	0
31	c2	5976	0	5981	0	0
31	c3	5976	0	5996	0	0
31	c4	5976	0	5949	0	0
31	c5	5976	0	5997	0	0
32	g	3282	0	3310	0	0
33	h	1836	0	1893	0	0
34	i	3280	0	3277	0	0
35	j	1197	0	1198	0	0
36	k1	719	0	713	0	0
37	k2	308	0	302	0	0
38	l1	460	0	94	0	0
39	l2	195	0	41	0	0
40	m1	440	0	93	0	0
41	m2	100	0	21	0	0
All	All	400581	0	386996	22511	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 37.

All (22511) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:950:LEU:HD11	16:N3:410:MET:SD	1.20	1.72
3:A6:444:ARG:HG2	6:D3:737:PHE:CZ	1.21	1.69
2:A4:886:PHE:CZ	3:A6:176:LEU:HG	1.26	1.68
11:I1:833:PHE:CD2	17:O1:238:ALA:HA	1.27	1.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:770:GLY:CA	3:A6:469:PHE:CD2	1.74	1.68
3:A5:1026:PRO:CB	11:I5:73:TYR:CD1	1.75	1.67
11:I1:1114:VAL:CG1	16:N1:432:TYR:CE2	1.77	1.67
8:F1:1203:TRP:CZ2	17:O2:248:SER:HA	1.21	1.66
11:I3:1267:LEU:HD22	26:X1:497:ARG:CZ	1.23	1.66
11:I1:1669:ARG:CB	11:I2:1664:PHE:CZ	1.78	1.65
2:A2:1142:PHE:CE2	3:A5:567:VAL:CG2	1.79	1.65
11:I2:1109:LEU:HB2	17:O3:290:TYR:CE2	1.24	1.65
1:A3:1192:GLN:HB2	3:A6:645:PHE:CD2	1.13	1.65
11:I1:1109:LEU:CD1	17:O1:290:TYR:CZ	1.79	1.65
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CG	1.18	1.65
8:F1:1137:GLN:HA	17:O2:248:SER:CB	1.26	1.64
11:I1:1114:VAL:HG13	16:N1:432:TYR:CD2	1.18	1.64
2:A2:1142:PHE:CZ	3:A5:567:VAL:CB	1.81	1.64
1:A3:1224:PRO:CB	2:A4:731:ILE:HD13	1.23	1.64
1:A3:1237:LEU:HD21	3:A6:119:TRP:CZ2	1.28	1.63
2:A2:870:HIS:CD2	6:D1:551:PHE:CB	1.81	1.63
2:A2:1149:THR:HG23	3:A5:172:PRO:CD	1.20	1.63
2:A4:691:LYS:HD2	3:A6:316:ARG:CD	1.26	1.63
2:A2:1137:ALA:CB	3:A5:564:ASN:HB2	1.19	1.63
1:A3:1249:PHE:CD1	3:A6:584:GLY:HA2	1.18	1.63
1:A3:1260:ALA:HB1	3:A6:719:ARG:CD	1.21	1.63
2:A4:854:VAL:CG1	3:A6:171:HIS:HD1	1.03	1.63
3:A6:520:GLU:CA	6:D3:639:LEU:HD11	1.26	1.63
11:I1:1040:HIS:CD2	16:N1:437:VAL:HG21	1.24	1.63
11:I1:1104:LEU:CD2	20:R1:174:ARG:HD2	1.20	1.63
11:I1:1108:PRO:HG3	16:N1:443:GLU:CB	1.29	1.63
2:A2:1142:PHE:CE1	3:A5:567:VAL:HG23	1.10	1.63
2:A4:677:ALA:CA	3:A6:98:LEU:HG	1.23	1.63
6:D6:804:SER:HB2	22:T3:764:PHE:CE2	1.16	1.63
9:G1:263:MET:HA	16:N2:411:GLN:CB	1.17	1.63
11:I1:952:LEU:CD1	16:N1:400:LEU:HD21	1.25	1.63
18:P2:320:GLN:CG	18:P3:278:ASN:HB2	1.16	1.63
1:A3:1228:TYR:CD1	3:A6:551:GLN:HA	1.34	1.62
2:A4:93:ASP:CB	3:A6:361:ASP:HB3	1.21	1.62
2:A4:652:PRO:HB3	3:A6:542:LEU:CD1	1.29	1.62
2:A4:720:LEU:HD12	3:A6:510:TYR:CE1	1.27	1.62
11:I1:1669:ARG:HB2	11:I2:1664:PHE:CE1	1.23	1.62
11:I3:1267:LEU:HD11	26:X1:529:TRP:CE3	1.11	1.63
2:A4:771:ILE:HD11	3:A6:476:PHE:CZ	1.34	1.62
2:A4:976:LEU:HD13	6:D3:472:PHE:CE2	1.12	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1237:LEU:HD21	3:A6:119:TRP:CE2	1.20	1.62
11:I2:834:SER:CB	17:O3:237:PRO:HA	1.19	1.62
2:A4:691:LYS:HB3	3:A6:316:ARG:CZ	1.17	1.62
6:D6:800:PRO:CG	22:T3:765:LYS:HG3	1.14	1.62
11:I1:962:ILE:HD13	15:M1:596:ILE:CG2	1.22	1.62
11:I1:1104:LEU:HD23	20:R1:174:ARG:CD	1.28	1.62
11:I2:1109:LEU:CB	17:O3:290:TYR:HE2	1.04	1.62
2:A4:868:GLN:HG2	6:D3:608:ILE:CD1	1.20	1.62
2:A4:909:LYS:HG2	6:D3:552:TYR:CE2	1.22	1.62
3:A6:520:GLU:HG3	6:D3:681:ALA:CB	1.28	1.62
11:I2:841:PHE:CD1	15:M3:588:MET:HG3	1.31	1.62
2:A4:983:LEU:HG	6:D3:528:PHE:CE1	1.10	1.61
11:I3:1267:LEU:HD21	26:X1:529:TRP:CZ3	1.35	1.61
2:A2:988:ARG:CB	6:D1:500:LYS:HZ3	0.99	1.61
3:A6:1403:MSE:CE	28:Z4:964:LEU:CB	1.78	1.61
1:A3:1249:PHE:HB3	3:A6:633:MET:SD	1.39	1.61
1:A3:1261:TYR:CD2	3:A6:621:GLN:HG3	1.26	1.61
8:F1:1262:HIS:CE1	17:O2:259:ASP:HB2	1.12	1.61
2:A4:878:LEU:CB	6:D3:567:LEU:HD13	1.17	1.61
2:A4:986:THR:CB	6:D3:504:LYS:HD3	1.14	1.61
3:A5:1368:GLN:CB	28:Z2:841:ALA:HA	1.23	1.61
2:A2:870:HIS:CD2	6:D1:551:PHE:HB3	1.29	1.61
1:A3:1278:PRO:CG	3:A6:624:ASP:HB2	1.26	1.61
2:A4:549:ALA:CB	3:A6:365:MET:HE2	1.28	1.61
3:A5:1027:HIS:CE1	11:I5:65:LYS:CB	1.79	1.60
11:I2:900:ARG:CA	17:O3:232:LYS:HG2	1.30	1.60
2:A4:713:ILE:HG13	3:A6:462:LEU:CD1	1.31	1.60
2:A2:1154:PHE:CE1	4:B5:342:ARG:HD2	1.37	1.60
2:A4:549:ALA:CB	3:A6:365:MET:CE	1.77	1.60
3:A6:484:PRO:CG	6:D3:672:GLU:HG2	1.30	1.60
11:I1:927:HIS:CD2	15:M1:594:LYS:HA	1.12	1.60
11:I1:1049:LEU:HD12	15:M1:626:HIS:CD2	1.08	1.60
2:A4:868:GLN:HB3	6:D3:570:VAL:CB	1.17	1.60
3:A6:444:ARG:HD2	6:D3:733:ALA:CB	1.32	1.60
2:A2:973:GLU:HG2	6:D1:192:TYR:CE2	1.08	1.59
1:A3:1189:LEU:HD22	3:A6:614:ALA:CB	1.20	1.59
2:A4:720:LEU:CG	3:A6:494:PRO:HA	1.16	1.59
2:A4:720:LEU:CD1	3:A6:510:TYR:HE1	1.09	1.59
2:A4:729:SER:CB	3:A6:678:LEU:HD21	1.29	1.59
2:A4:875:LEU:HD12	6:D3:567:LEU:CD2	1.17	1.59
6:D6:800:PRO:CB	22:T3:765:LYS:HG3	1.32	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:976:ARG:CB	20:R1:149:ARG:HB3	1.31	1.59
11:I3:1267:LEU:CD2	26:X1:497:ARG:CZ	1.76	1.59
3:A5:1101:GLN:HE22	11:I5:33:THR:CG2	1.07	1.59
8:F1:1203:TRP:CZ2	17:O2:248:SER:CA	1.80	1.59
2:A4:80:LYS:CD	3:A6:387:THR:HG23	1.31	1.59
2:A4:720:LEU:CB	3:A6:494:PRO:CA	1.75	1.59
11:I1:947:LEU:HA	16:N1:407:ALA:CB	1.31	1.59
2:A4:611:ILE:HG21	3:A6:508:LEU:CD1	1.19	1.59
11:I1:981:VAL:CG1	20:R1:151:LYS:HB2	1.13	1.59
11:I4:813:ILE:HD12	26:X3:496:THR:CG2	1.23	1.59
3:A6:1360:GLY:HA2	28:Z4:918:PHE:CB	1.31	1.59
1:A3:1248:ILE:CD1	3:A6:587:VAL:HG22	1.26	1.58
2:A4:677:ALA:HA	3:A6:98:LEU:CD1	1.15	1.58
2:A4:691:LYS:CG	3:A6:316:ARG:CD	1.79	1.58
11:I1:1667:GLN:CG	11:I2:1665:LEU:HG	1.21	1.58
11:I2:948:ALA:CB	17:O3:256:TYR:HB3	1.32	1.58
11:I3:1275:SER:CB	26:X1:522:MET:HA	1.23	1.58
1:A3:1233:GLN:HA	3:A6:578:ILE:CB	1.13	1.58
1:A3:1278:PRO:HB2	3:A6:624:ASP:CA	1.32	1.58
2:A4:496:THR:CG2	3:A6:366:ALA:HB2	1.29	1.58
2:A4:875:LEU:CD1	6:D3:567:LEU:HD23	1.20	1.58
11:I1:884:LEU:CG	17:O1:246:LEU:HD21	1.23	1.58
11:I2:938:CYS:SG	15:M3:606:LEU:HD12	1.40	1.58
2:A2:970:PHE:HD1	6:D1:192:TYR:CE1	1.19	1.58
2:A4:677:ALA:CA	3:A6:98:LEU:CG	1.75	1.58
2:A4:878:LEU:CD2	6:D3:607:PRO:HB2	1.16	1.58
11:I1:846:ILE:HD12	15:M1:594:LYS:CE	1.15	1.58
11:I1:1041:GLN:HB3	15:M1:620:VAL:CG2	1.23	1.58
3:A6:444:ARG:CD	6:D3:733:ALA:HB1	1.28	1.58
11:I2:834:SER:HB3	17:O3:237:PRO:CA	1.22	1.58
11:I2:1109:LEU:CG	16:N3:438:LEU:HD22	1.26	1.58
1:A1:1224:PRO:HD3	2:A2:731:ILE:CG1	1.33	1.57
1:A3:1254:LEU:CD1	3:A6:638:GLU:HG3	1.22	1.57
2:A4:775:LEU:HB2	3:A6:489:LEU:CD1	1.31	1.57
4:B5:344:ALA:CB	5:C2:737:LYS:HD3	1.31	1.57
11:I1:846:ILE:HG22	17:O1:247:TRP:CZ2	1.39	1.57
11:I2:884:LEU:CD1	16:N3:400:LEU:HD11	1.22	1.57
2:A4:692:VAL:HG11	3:A6:467:LEU:CD2	1.14	1.57
2:A4:859:GLN:CD	3:A6:134:VAL:HG21	1.20	1.57
2:A4:677:ALA:HA	3:A6:98:LEU:CG	1.16	1.57
2:A4:689:LYS:CD	3:A6:336:ILE:HD13	1.21	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:520:GLU:HA	6:D3:639:LEU:CD1	1.23	1.57
2:A4:868:GLN:CB	6:D3:570:VAL:CG1	1.83	1.57
2:A4:983:LEU:HB2	6:D3:528:PHE:CZ	1.09	1.57
11:I1:952:LEU:HA	16:N1:400:LEU:CD2	1.34	1.57
11:I2:896:PRO:CA	17:O3:233:THR:HA	1.20	1.57
2:A4:872:ALA:HB1	6:D3:565:MET:CE	1.34	1.57
2:A4:975:GLU:HB3	6:D3:501:LEU:CD1	1.30	1.57
3:A5:1374:ALA:CB	28:Z2:823:ALA:CB	1.77	1.57
11:I1:990:GLU:CG	17:O1:275:LEU:HD23	1.23	1.57
2:A4:89:LEU:CD1	3:A6:406:LEU:HD12	1.35	1.56
3:A6:484:PRO:HG2	6:D3:672:GLU:CG	1.20	1.56
11:I2:874:LEU:CA	17:O3:255:GLY:HA3	1.17	1.56
11:I2:952:LEU:HD13	17:O3:250:LEU:CD1	1.12	1.56
2:A4:908:LEU:HA	6:D3:552:TYR:CE1	1.38	1.56
2:A4:978:ASP:HB3	6:D3:476:VAL:CG2	1.33	1.56
11:I1:919:ALA:HB2	16:N1:389:PHE:CA	1.21	1.56
11:I2:998:ALA:HB3	17:O3:267:ALA:CB	1.33	1.56
11:I2:1039:ALA:CA	20:R3:170:LEU:HG	1.35	1.56
18:P2:320:GLN:HG3	18:P3:278:ASN:CB	1.35	1.56
2:A2:973:GLU:HG3	6:D1:192:TYR:CZ	1.37	1.56
1:A3:1271:ILE:HG23	3:A6:553:ASP:CB	1.10	1.56
2:A4:715:GLU:HB3	3:A6:112:MET:SD	1.40	1.56
2:A4:720:LEU:HD22	3:A6:494:PRO:CB	1.14	1.56
2:A4:859:GLN:CG	3:A6:134:VAL:HG23	1.24	1.56
2:A4:986:THR:CG2	6:D3:504:LYS:CG	1.82	1.56
11:I3:1275:SER:HB3	26:X1:522:MET:CA	1.18	1.56
2:A4:806:PHE:HB2	3:A6:382:SER:CB	1.28	1.56
11:I1:945:LEU:HD21	17:O1:258:GLU:CB	1.36	1.56
11:I1:1607:GLN:HG2	11:I2:1739:GLU:CA	1.29	1.56
11:I2:952:LEU:CD1	17:O3:250:LEU:CD1	1.80	1.56
11:I2:966:TRP:CZ3	20:R3:167:GLN:NE2	1.68	1.56
11:I2:998:ALA:CB	17:O3:267:ALA:HB2	1.32	1.56
1:A3:1250:PRO:HG2	3:A6:635:ARG:CA	1.24	1.55
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CA	1.35	1.55
11:I1:833:PHE:CE2	17:O1:238:ALA:CA	1.74	1.55
18:P1:279:GLY:CA	18:P4:326:GLN:NE2	1.69	1.55
1:A3:1021:LEU:HB3	6:D3:816:VAL:CG1	1.22	1.55
11:I1:996:LEU:CD2	16:N1:410:MET:CE	1.84	1.55
11:I3:1277:LEU:HD11	26:X1:511:TYR:CD2	1.40	1.55
2:A2:989:MSE:CE	6:D1:240:ASP:HA	1.10	1.55
2:A2:1149:THR:CG2	3:A5:172:PRO:HD2	1.16	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:691:LYS:CD	3:A6:316:ARG:HD3	1.08	1.55
11:I1:950:LEU:CD2	16:N1:406:HIS:CD2	1.74	1.55
11:I1:1041:GLN:CB	15:M1:620:VAL:HG23	1.08	1.55
2:A2:980:ARG:HG2	6:D1:473:GLU:CG	1.23	1.55
2:A2:986:THR:HG21	6:D1:504:LYS:CD	1.33	1.55
1:A3:1017:THR:CG2	6:D3:819:ASN:HB3	1.36	1.55
2:A4:789:LEU:CD2	3:A6:146:LYS:CB	1.82	1.55
8:F1:158:PRO:CG	11:I1:1207:PRO:HD3	1.34	1.55
11:I2:1021:ILE:HG12	16:N3:410:MET:CE	1.29	1.55
11:I3:1267:LEU:CB	26:X1:497:ARG:NH1	1.67	1.55
1:A3:1271:ILE:CB	3:A6:550:VAL:HB	1.30	1.55
1:A3:1271:ILE:CG2	3:A6:553:ASP:HB2	1.24	1.55
2:A4:549:ALA:HB2	3:A6:365:MET:CE	1.34	1.55
11:I1:846:ILE:CD1	15:M1:594:LYS:HE3	1.35	1.55
11:I1:846:ILE:HD13	15:M1:594:LYS:CB	1.18	1.55
11:I2:900:ARG:CB	17:O3:232:LYS:HD3	1.30	1.55
11:I2:944:GLU:HA	17:O3:256:TYR:CE1	1.39	1.55
11:I2:1021:ILE:HA	16:N3:406:HIS:CE1	1.36	1.55
11:I1:880:MET:HB2	17:O1:250:LEU:CB	1.14	1.54
2:A2:1138:GLU:HB2	3:A5:147:LEU:CD1	1.11	1.54
1:A3:1226:LEU:CD2	3:A6:550:VAL:H	1.14	1.54
2:A4:760:LEU:HD13	3:A6:388:GLU:CG	1.26	1.54
2:A4:822:ILE:HG23	3:A6:526:ILE:CD1	1.30	1.54
2:A4:865:ALA:HB1	6:D3:567:LEU:CD2	1.37	1.54
11:I1:1665:LEU:CG	11:I2:1667:GLN:HG2	1.29	1.54
11:I3:1267:LEU:CD1	26:X1:529:TRP:CE3	1.90	1.54
1:A3:1017:THR:HG22	6:D3:819:ASN:CB	1.35	1.54
1:A3:1248:ILE:CG1	3:A6:587:VAL:CA	1.81	1.54
1:A3:1259:CYS:SG	3:A6:624:ASP:HA	1.47	1.54
2:A4:878:LEU:HD22	6:D3:607:PRO:CB	1.32	1.54
3:A5:1365:VAL:HA	28:Z2:841:ALA:CB	1.07	1.54
1:A3:1116:HIS:CB	3:A6:596:ARG:NH2	1.70	1.54
2:A4:760:LEU:CD1	3:A6:388:GLU:CG	1.76	1.54
2:A4:868:GLN:CB	6:D3:570:VAL:HG11	1.16	1.54
2:A4:876:ARG:CD	6:D3:558:LYS:HA	1.16	1.54
2:A4:970:PHE:N	6:D3:202:GLN:CG	1.68	1.54
11:I1:1108:PRO:HG3	16:N1:443:GLU:CA	1.30	1.54
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CG1	1.69	1.54
1:A3:1223:GLU:HB2	2:A4:676:LEU:CD1	1.33	1.54
2:A4:889:VAL:HG13	3:A6:171:HIS:CG	1.41	1.54
11:I1:1607:GLN:CG	11:I2:1739:GLU:HA	1.32	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P1:276:SER:CB	18:P4:322:LYS:CE	1.83	1.54
1:A3:1248:ILE:CD1	3:A6:587:VAL:CG2	1.78	1.53
2:A4:702:SER:HB2	3:A6:379:VAL:CG1	1.34	1.53
3:A6:1410:ALA:N	26:X4:686:ASP:CB	1.71	1.53
8:F1:1205:TRP:CG	17:O2:254:ARG:HD2	1.40	1.53
9:G2:263:MET:SD	17:O4:263:GLN:HB2	1.47	1.53
11:I1:922:ASP:H	15:M1:592:LEU:CD2	1.19	1.53
1:A3:1249:PHE:CE1	3:A6:584:GLY:CA	1.90	1.53
2:A4:710:LEU:HB2	3:A6:480:VAL:CG2	1.34	1.53
2:A4:878:LEU:HD22	6:D3:607:PRO:CG	1.31	1.53
8:F1:1137:GLN:CG	17:O2:249:ARG:H	1.15	1.53
11:I1:950:LEU:HD22	16:N1:406:HIS:CD2	1.01	1.53
11:I3:1276:GLN:NE2	26:X1:535:ALA:CA	1.69	1.53
1:A3:1225:PRO:CD	3:A6:548:LEU:HD11	1.36	1.53
1:A3:1306:PRO:CB	3:A6:715:GLU:HB3	1.33	1.53
2:A4:868:GLN:HB3	6:D3:570:VAL:CG1	1.33	1.53
2:A4:868:GLN:CA	6:D3:570:VAL:HG11	1.10	1.53
2:A4:878:LEU:HB2	6:D3:567:LEU:CD1	1.38	1.53
3:A5:153:ILE:HD12	5:C2:739:MET:CE	1.37	1.53
11:I2:955:LYS:H	16:N3:403:VAL:CG2	1.14	1.53
1:A3:1248:ILE:CG1	3:A6:587:VAL:HA	1.32	1.53
1:A3:1248:ILE:HG13	3:A6:587:VAL:CB	1.36	1.53
2:A4:975:GLU:CA	6:D3:499:LEU:HB2	1.32	1.53
3:A5:1395:LYS:CB	28:Z2:873:LEU:CB	1.87	1.53
8:F1:1203:TRP:HZ2	17:O2:248:SER:CB	1.12	1.53
11:I1:1669:ARG:CB	11:I2:1664:PHE:CE1	1.84	1.53
11:I2:884:LEU:HD12	16:N3:400:LEU:CD1	1.27	1.53
17:O4:110:LEU:CD2	18:P4:321:ILE:H	1.03	1.53
1:A3:1189:LEU:HD11	3:A6:579:PHE:CE1	1.00	1.52
11:I1:883:ALA:HB3	17:O1:246:LEU:CB	1.30	1.52
11:I1:996:LEU:CD2	16:N1:410:MET:HE2	1.34	1.52
11:I2:885:GLU:CA	16:N3:397:GLU:HG2	1.23	1.52
11:I3:1278:ALA:H	26:X1:519:ILE:CG2	1.11	1.52
1:A1:870:HIS:HB2	6:D3:279:HIS:C	1.29	1.52
2:A2:973:GLU:CG	6:D1:192:TYR:CE2	1.84	1.52
2:A4:893:LEU:CD1	3:A6:175:GLU:CG	1.78	1.52
11:I1:1039:ALA:H	20:R1:169:GLY:CA	1.08	1.52
23:U3:278:GLN:CG	25:W4:189:SER:HA	1.39	1.52
2:A2:870:HIS:HE1	6:D1:566:PHE:CA	1.12	1.52
8:F1:1262:HIS:NE2	17:O2:259:ASP:HB2	1.23	1.52
1:A3:1248:ILE:CG1	3:A6:587:VAL:HG13	1.38	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:781:ARG:CZ	6:D3:633:LYS:HE2	1.33	1.52
3:A6:1368:GLN:HA	28:Z4:875:LEU:CA	1.24	1.52
1:A3:1278:PRO:CB	3:A6:624:ASP:HB2	1.36	1.51
2:A4:93:ASP:HB3	3:A6:361:ASP:CB	1.08	1.51
11:I1:1052:LEU:CB	16:N1:438:LEU:HD11	1.29	1.51
1:A3:1228:TYR:HD1	3:A6:551:GLN:CA	1.20	1.51
1:A3:1261:TYR:CE1	3:A6:621:GLN:CB	1.88	1.51
2:A4:90:GLN:NE2	3:A6:427:MET:CG	1.69	1.51
2:A4:677:ALA:CB	3:A6:98:LEU:HG	1.38	1.51
11:I1:919:ALA:CB	16:N1:389:PHE:HA	1.36	1.51
11:I1:953:LEU:N	16:N1:403:VAL:CG2	1.70	1.51
1:A3:1186:TRP:CH2	3:A6:637:THR:HG23	1.41	1.51
1:A3:1240:HIS:CE1	3:A6:118:SER:HB3	1.43	1.51
2:A4:689:LYS:HD2	3:A6:336:ILE:CD1	1.07	1.51
2:A4:701:ILE:CG1	3:A6:466:ALA:HB2	1.35	1.51
2:A4:713:ILE:CG1	3:A6:462:LEU:CD1	1.88	1.51
2:A4:866:SER:C	6:D3:598:ILE:HG12	1.23	1.51
3:A5:1031:TYR:CD1	11:I5:67:LYS:NZ	1.74	1.51
11:I1:833:PHE:CE2	17:O1:238:ALA:HA	0.99	1.51
11:I1:1108:PRO:CG	16:N1:443:GLU:N	1.70	1.51
11:I2:980:ILE:HD13	15:M3:622:VAL:CG2	1.38	1.51
11:I1:880:MET:CB	17:O1:250:LEU:HB3	1.38	1.51
11:I2:981:VAL:CA	20:R3:147:LEU:HD21	1.03	1.51
11:I2:1039:ALA:CB	20:R3:170:LEU:CD2	1.89	1.51
2:A2:974:PRO:CD	6:D1:205:LEU:HD23	1.40	1.51
2:A4:692:VAL:CG1	3:A6:467:LEU:HD23	1.06	1.51
3:A5:232:LEU:CD1	5:C2:739:MET:HG3	1.38	1.51
11:I4:1270:LYS:HE3	26:X3:527:VAL:CG1	1.37	1.51
2:A2:974:PRO:HD2	6:D1:205:LEU:CD2	1.40	1.50
2:A4:702:SER:C	3:A6:399:ASP:CB	1.76	1.50
2:A4:757:LEU:HD12	3:A6:543:GLY:CA	1.39	1.50
2:A4:770:GLY:HA3	3:A6:469:PHE:CB	1.09	1.50
2:A4:822:ILE:CG2	3:A6:526:ILE:HD11	1.35	1.50
2:A4:909:LYS:CG	6:D3:552:TYR:CE2	1.83	1.50
21:S1:668:ILE:CA	21:S2:1146:ALA:HB1	1.16	1.50
1:A1:1224:PRO:HD3	2:A2:731:ILE:CD1	1.41	1.50
2:A2:1094:ILE:CD1	6:D2:759:GLN:NE2	1.68	1.50
1:A3:1248:ILE:CG1	3:A6:587:VAL:CB	1.85	1.50
3:A5:1094:ILE:HG23	11:I5:4:LEU:CB	1.37	1.50
3:A6:444:ARG:CD	6:D3:733:ALA:CB	1.82	1.50
11:I2:1109:LEU:CD1	17:O3:286:ILE:HG22	1.42	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:701:ILE:CG1	3:A6:466:ALA:CB	1.89	1.50
2:A4:983:LEU:CG	6:D3:528:PHE:CE1	1.91	1.50
8:F1:1205:TRP:CD1	17:O2:254:ARG:HD2	1.44	1.50
3:A5:1098:ARG:NE	11:I5:29:GLN:CG	1.73	1.50
1:A1:1399:ARG:HG2	2:A2:884:ARG:CG	1.38	1.50
2:A4:611:ILE:HG22	3:A6:508:LEU:CD2	1.37	1.50
2:A4:824:ASN:C	3:A6:138:LEU:CD1	1.77	1.50
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CD	1.24	1.50
2:A2:970:PHE:CD1	6:D1:192:TYR:HE1	1.28	1.50
1:A3:1189:LEU:CD1	3:A6:579:PHE:HE1	0.87	1.50
1:A3:1236:GLN:CG	3:A6:581:LYS:HB3	1.42	1.50
2:A4:555:VAL:HG22	3:A6:437:ARG:NH2	1.23	1.50
2:A4:701:ILE:HG13	3:A6:466:ALA:CB	1.42	1.50
2:A4:780:GLU:CG	6:D3:679:ILE:CG1	1.74	1.50
11:I2:846:ILE:HG22	17:O3:247:TRP:CH2	1.43	1.50
11:I2:1017:VAL:HG13	16:N3:410:MET:CG	1.41	1.50
11:I2:1039:ALA:CB	20:R3:170:LEU:CB	1.89	1.50
2:A4:496:THR:HG21	3:A6:366:ALA:CB	1.42	1.49
2:A4:770:GLY:CA	3:A6:469:PHE:CG	1.91	1.49
2:A4:1055:ARG:CD	6:D4:762:ARG:HB3	1.36	1.49
3:A5:1098:ARG:CZ	11:I5:29:GLN:HG2	1.42	1.49
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CB	1.41	1.49
8:F1:1262:HIS:CE1	17:O2:259:ASP:CB	1.91	1.49
1:A3:1271:ILE:CB	3:A6:550:VAL:CB	1.85	1.49
2:A4:701:ILE:HG13	3:A6:466:ALA:CA	1.03	1.49
3:A5:1365:VAL:CA	28:Z2:841:ALA:CB	1.87	1.49
8:F2:1137:GLN:CB	17:O4:251:ILE:HD13	1.38	1.49
11:I2:891:LEU:CD1	16:N3:393:ILE:HD12	1.40	1.49
18:P1:276:SER:CB	18:P4:322:LYS:HE3	1.39	1.49
23:U3:278:GLN:CD	25:W4:189:SER:CA	1.75	1.49
2:A2:1138:GLU:CB	3:A5:147:LEU:HD13	1.39	1.49
1:A3:1192:GLN:CB	3:A6:645:PHE:HD2	1.21	1.49
2:A4:986:THR:HG21	6:D3:504:LYS:CG	1.04	1.49
3:A5:1374:ALA:HB2	28:Z2:823:ALA:CB	1.30	1.49
2:A4:611:ILE:HG22	3:A6:508:LEU:CB	1.39	1.49
2:A4:684:VAL:HG21	3:A6:395:MET:SD	1.52	1.49
11:I1:952:LEU:HD12	16:N1:400:LEU:CD2	1.01	1.49
11:I1:967:SER:CB	15:M1:625:GLY:HA2	1.04	1.49
11:I2:1039:ALA:HB1	20:R3:170:LEU:CB	1.40	1.49
2:A4:496:THR:CG2	3:A6:366:ALA:CB	1.88	1.49
2:A4:983:LEU:HD22	6:D3:497:PHE:CZ	1.46	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:962:ILE:CD1	15:M1:596:ILE:HG21	1.36	1.49
11:I1:1024:PHE:CB	16:N1:406:HIS:HB2	1.40	1.49
11:I2:833:PHE:CE1	17:O3:245:GLU:CD	1.83	1.49
11:I2:1109:LEU:HG	16:N3:438:LEU:CD2	1.02	1.49
11:I3:1277:LEU:CG	26:X1:522:MET:HG3	1.41	1.49
1:A3:1201:ARG:CA	3:A6:546:ASN:HD21	1.26	1.48
2:A4:958:LEU:HD13	4:B6:342:ARG:C	1.24	1.48
2:A2:989:MSE:CE	6:D1:240:ASP:CA	1.88	1.48
1:A3:1204:TRP:CB	2:A4:731:ILE:HG23	1.36	1.48
1:A3:1321:MET:CE	3:A6:571:ARG:NH2	1.72	1.48
2:A4:909:LYS:CG	6:D3:552:TYR:CD2	1.94	1.48
2:A4:949:PHE:HB3	4:B6:348:PRO:CD	1.38	1.48
11:I2:900:ARG:N	17:O3:232:LYS:CG	1.75	1.48
11:I2:952:LEU:CD1	17:O3:250:LEU:HD11	1.36	1.48
11:I3:1278:ALA:N	26:X1:519:ILE:HG22	1.21	1.48
1:A3:1285:LEU:C	3:A6:581:LYS:HZ2	1.07	1.48
2:A4:642:ARG:HG2	3:A6:501:VAL:CG1	1.41	1.48
2:A4:702:SER:CB	3:A6:379:VAL:CG1	1.87	1.48
2:A4:765:GLU:HB2	3:A6:559:PHE:CZ	1.45	1.48
3:A6:1406:GLY:HA3	26:X4:744:MET:CB	1.43	1.48
8:F2:1137:GLN:HB2	17:O4:251:ILE:CD1	1.42	1.48
11:I2:917:TYR:CD2	15:M3:587:GLU:O	1.64	1.48
1:A3:1271:ILE:HB	3:A6:550:VAL:CB	1.00	1.48
1:A3:1278:PRO:HB2	3:A6:624:ASP:CB	1.44	1.48
1:A3:1279:ILE:HA	3:A6:625:LEU:CA	1.19	1.48
2:A4:757:LEU:HB2	3:A6:543:GLY:C	1.31	1.48
17:O3:148:ARG:CZ	18:P3:325:ILE:HG22	1.41	1.48
18:P1:276:SER:HB2	18:P4:322:LYS:CE	1.01	1.48
2:A4:864:ARG:HB2	6:D3:607:PRO:CD	1.44	1.48
3:A6:1370:ALA:H	28:Z4:874:ASN:CB	1.25	1.48
11:I1:880:MET:CB	17:O1:250:LEU:CB	1.88	1.48
11:I1:883:ALA:CA	17:O1:246:LEU:HB2	1.17	1.48
11:I1:987:GLY:N	15:M1:613:ASP:H	1.02	1.48
11:I1:1018:LYS:CE	16:N1:413:VAL:HA	1.03	1.48
11:I1:1109:LEU:HD13	17:O1:290:TYR:CZ	1.42	1.48
11:I2:900:ARG:CA	17:O3:232:LYS:CG	1.90	1.48
2:A2:826:ASN:CG	6:D1:633:LYS:HB3	1.28	1.47
2:A4:776:MET:SD	3:A6:525:THR:HA	1.54	1.47
2:A4:859:GLN:CD	3:A6:134:VAL:CG2	1.78	1.47
11:I1:884:LEU:HG	17:O1:246:LEU:CD2	1.02	1.47
11:I1:1018:LYS:HE3	16:N1:413:VAL:CA	1.28	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:966:TRP:HZ3	20:R3:167:GLN:CG	1.27	1.47
11:I2:981:VAL:HB	20:R3:147:LEU:CD2	1.38	1.47
11:I2:1186:PRO:CG	17:O4:225:GLN:NE2	1.70	1.47
11:I4:1270:LYS:CE	26:X3:527:VAL:CG1	1.90	1.47
17:O3:155:VAL:HG23	18:P3:321:ILE:CD1	1.42	1.47
2:A4:642:ARG:HG2	3:A6:501:VAL:CB	1.37	1.47
2:A4:770:GLY:HA3	3:A6:469:PHE:CG	1.49	1.47
11:I1:883:ALA:CB	17:O1:246:LEU:CB	1.90	1.47
1:A3:1021:LEU:HD13	6:D3:816:VAL:CA	1.43	1.47
11:I3:1277:LEU:HG	26:X1:522:MET:CG	1.42	1.47
23:U3:278:GLN:NE2	25:W4:189:SER:HA	1.25	1.47
1:A1:870:HIS:C	6:D3:279:HIS:HB3	1.35	1.47
2:A4:721:ARG:H	3:A6:493:ALA:C	1.09	1.47
2:A4:893:LEU:CD1	3:A6:175:GLU:HG3	0.99	1.47
3:A5:153:ILE:HD13	5:C2:739:MET:SD	1.54	1.47
3:A5:1026:PRO:CB	11:I5:73:TYR:HD1	1.11	1.47
11:I2:1024:PHE:HB2	16:N3:406:HIS:CG	1.47	1.47
2:A2:986:THR:CG2	6:D1:504:LYS:HD3	1.01	1.47
2:A4:543:GLY:C	3:A6:365:MET:H	1.02	1.47
2:A4:711:VAL:CA	3:A6:490:PHE:HB2	0.99	1.47
2:A4:822:ILE:CG2	3:A6:526:ILE:CD1	1.84	1.47
3:A5:1395:LYS:HG2	28:Z2:873:LEU:N	1.24	1.47
11:I1:952:LEU:CD1	16:N1:400:LEU:CD2	1.83	1.47
2:A2:1154:PHE:HD2	3:A5:175:GLU:CD	1.11	1.46
1:A3:1163:TYR:CD1	3:A6:648:TYR:CA	1.97	1.46
2:A4:713:ILE:CG1	3:A6:462:LEU:HD12	1.45	1.46
2:A4:720:LEU:CB	3:A6:494:PRO:HA	1.01	1.46
3:A5:1026:PRO:CG	11:I5:73:TYR:CD1	1.93	1.46
11:I2:900:ARG:HA	17:O3:232:LYS:CD	1.43	1.46
11:I2:942:HIS:CB	17:O3:259:ASP:CG	1.82	1.46
11:I2:1109:LEU:HD13	17:O3:290:TYR:CD2	1.47	1.46
1:A1:870:HIS:HB3	6:D3:279:HIS:ND1	1.28	1.46
11:I1:1665:LEU:HG	11:I2:1667:GLN:CG	1.38	1.46
11:I2:797:LEU:CD1	17:O3:245:GLU:HA	1.45	1.46
11:I2:1045:PHE:CE2	16:N3:434:LEU:CB	1.92	1.46
1:A3:1228:TYR:CD1	3:A6:551:GLN:CA	1.94	1.46
2:A4:975:GLU:CB	6:D3:501:LEU:HD12	1.43	1.46
1:A3:1270:SER:HB3	3:A6:709:LYS:NZ	1.24	1.46
3:A5:1406:GLY:HA3	28:Z2:921:THR:CB	1.41	1.46
8:F1:1203:TRP:CH2	17:O2:248:SER:CA	1.89	1.46
11:I2:1039:ALA:CA	20:R3:170:LEU:CG	1.88	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1124:ARG:N	3:A6:599:ARG:CZ	1.79	1.46
2:A4:701:ILE:CG1	3:A6:466:ALA:CA	1.90	1.46
2:A4:772:SER:HB2	3:A6:477:PHE:CD1	1.48	1.46
3:A5:172:PRO:CD	5:C2:730:HIS:CG	1.99	1.46
8:F1:158:PRO:HG3	11:I1:1207:PRO:CD	1.43	1.46
11:I2:896:PRO:CA	17:O3:233:THR:CA	1.94	1.46
11:I2:896:PRO:HA	17:O3:233:THR:N	1.28	1.46
11:I2:957:SER:HB2	20:R3:168:LEU:CA	0.99	1.46
23:U3:278:GLN:HG3	25:W4:189:SER:CB	1.44	1.46
2:A2:823:VAL:CA	2:A2:856:PHE:HE1	1.20	1.45
1:A3:1225:PRO:HD2	3:A6:548:LEU:CD1	1.40	1.45
1:A3:1249:PHE:CD2	3:A6:633:MET:HG3	1.46	1.45
2:A4:796:GLN:H	3:A6:249:SER:CB	1.24	1.45
11:I1:846:ILE:HD12	15:M1:594:LYS:CD	1.42	1.45
11:I1:1114:VAL:CG1	16:N1:432:TYR:CD2	1.83	1.45
1:A3:1163:TYR:CD1	3:A6:648:TYR:HA	1.52	1.45
2:A4:760:LEU:CD1	3:A6:388:GLU:HG2	1.00	1.45
8:F1:1203:TRP:CH2	17:O2:248:SER:HA	0.93	1.45
11:I1:978:LYS:NZ	20:R1:155:GLU:N	1.64	1.45
11:I2:977:ASN:CB	20:R3:150:ASN:HB3	1.00	1.45
1:A1:1204:TRP:CZ2	2:A2:676:LEU:HD12	1.49	1.45
2:A4:876:ARG:HD2	6:D3:558:LYS:CA	0.99	1.45
2:A4:975:GLU:HB3	6:D3:501:LEU:CG	1.34	1.45
11:I1:1066:LEU:N	16:N1:430:ARG:HG2	1.16	1.45
11:I2:942:HIS:CB	17:O3:259:ASP:OD2	1.65	1.45
1:A1:1204:TRP:CH2	2:A2:757:LEU:HD22	1.47	1.45
8:F1:1267:ARG:HG3	17:O2:265:ASN:CG	1.34	1.45
11:I1:1052:LEU:CB	16:N1:438:LEU:CD1	1.78	1.45
2:A2:968:SER:HA	6:D1:201:LEU:C	1.31	1.45
1:A3:1248:ILE:CD1	3:A6:587:VAL:CA	1.95	1.45
2:A4:702:SER:C	3:A6:399:ASP:HB2	1.07	1.45
2:A4:770:GLY:CA	3:A6:469:PHE:HB2	1.45	1.45
2:A4:770:GLY:C	3:A6:469:PHE:HD2	0.99	1.45
2:A4:806:PHE:CB	3:A6:382:SER:OG	1.65	1.45
2:A4:854:VAL:HG22	3:A6:172:PRO:CA	1.00	1.45
3:A5:175:GLU:CD	5:C2:733:LEU:HD11	1.31	1.45
11:I2:1039:ALA:C	20:R3:170:LEU:HD21	1.32	1.45
11:I3:1277:LEU:HD11	26:X1:511:TYR:CE2	1.50	1.45
1:A3:1242:THR:CG2	3:A6:587:VAL:HB	1.47	1.44
2:A4:925:LYS:CE	3:A6:233:THR:HA	1.45	1.44
3:A5:1026:PRO:HD3	11:I5:102:ILE:CD1	1.44	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:520:GLU:CG	6:D3:639:LEU:HD12	1.43	1.44
11:I1:883:ALA:CB	17:O1:243:LEU:O	1.66	1.44
11:I1:919:ALA:HB2	16:N1:389:PHE:C	1.35	1.44
11:I1:1021:ILE:HD11	16:N1:410:MET:CG	1.41	1.44
1:A3:1233:GLN:CA	3:A6:578:ILE:HB	1.44	1.44
1:A3:1241:ARG:NH1	3:A6:593:ALA:CA	1.78	1.44
11:I1:924:ILE:CG1	15:M1:592:LEU:O	1.66	1.44
11:I2:950:LEU:CD1	16:N3:410:MET:CB	1.95	1.44
1:A1:1224:PRO:CD	2:A2:731:ILE:HD13	1.46	1.44
1:A3:1224:PRO:HB3	2:A4:731:ILE:CD1	0.97	1.44
2:A4:967:GLU:O	6:D3:202:GLN:CB	1.64	1.44
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CA	1.16	1.44
11:I1:954:GLU:CB	16:N1:403:VAL:N	1.75	1.44
11:I1:1662:ARG:HD3	11:I2:1603:ARG:NH1	1.12	1.44
11:I2:961:ARG:HH22	16:N3:388:LYS:C	1.15	1.44
1:A1:870:HIS:HB3	6:D3:279:HIS:CG	1.51	1.44
1:A3:1098:ARG:HB3	11:I2:1414:CYS:SG	1.56	1.44
2:A4:775:LEU:CB	3:A6:489:LEU:HD12	1.47	1.44
11:I1:841:PHE:CZ	17:O1:243:LEU:HD11	1.51	1.44
11:I1:916:ALA:CB	15:M1:586:ASP:HA	1.46	1.44
11:I1:1021:ILE:CG1	16:N1:410:MET:HB2	1.45	1.44
11:I2:922:ASP:CB	20:R3:163:LEU:HD13	1.46	1.44
11:I2:950:LEU:CD1	16:N3:410:MET:SD	2.02	1.44
11:I3:1277:LEU:CD1	26:X1:522:MET:HG3	1.47	1.44
2:A4:899:THR:N	3:A6:178:GLY:HA3	1.23	1.44
2:A4:975:GLU:C	6:D3:496:LEU:HA	1.33	1.44
3:A5:1374:ALA:HB3	28:Z2:824:PHE:N	1.22	1.44
11:I1:1108:PRO:CG	16:N1:443:GLU:CB	1.96	1.44
2:A4:791:ALA:H	3:A6:187:THR:CG2	1.26	1.43
11:I1:1662:ARG:CD	11:I2:1603:ARG:HH12	1.31	1.43
11:I2:962:ILE:HG21	20:R3:166:LEU:CB	0.98	1.43
11:I2:980:ILE:CB	15:M3:618:GLN:HA	1.23	1.43
1:A3:1054:SER:HA	6:D3:809:ALA:C	1.34	1.43
2:A4:680:LEU:CD2	3:A6:470:ARG:HH21	1.26	1.43
2:A4:691:LYS:CB	3:A6:316:ARG:NE	1.78	1.43
2:A4:824:ASN:C	3:A6:138:LEU:HD12	1.10	1.43
2:A4:879:LEU:HD12	6:D3:564:ASN:CG	1.32	1.43
2:A4:893:LEU:HD11	3:A6:175:GLU:CG	1.41	1.43
2:A4:983:LEU:CB	6:D3:528:PHE:CZ	1.96	1.43
3:A5:1094:ILE:CG2	11:I5:4:LEU:HB2	0.98	1.43
1:A3:1240:HIS:CE1	3:A6:118:SER:CB	1.97	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1285:LEU:N	3:A6:581:LYS:HZ3	0.99	1.43
8:F1:1137:GLN:HG2	17:O2:249:ARG:N	1.34	1.43
11:I2:981:VAL:N	20:R3:147:LEU:CD1	1.78	1.43
17:O3:155:VAL:CG2	18:P3:321:ILE:HD13	1.46	1.43
21:S3:686:ALA:HB2	21:S4:1153:GLN:CB	1.47	1.43
2:A2:980:ARG:HH21	6:D1:503:LEU:CB	1.29	1.43
1:A3:1241:ARG:NH1	3:A6:593:ALA:HA	1.30	1.43
1:A3:1248:ILE:HG13	3:A6:587:VAL:CG1	0.97	1.43
1:A3:1249:PHE:CD1	3:A6:584:GLY:CA	1.97	1.43
1:A3:1274:ASP:CB	3:A6:556:PRO:O	1.64	1.43
11:I1:956:ILE:CG2	20:R1:166:LEU:HB2	1.45	1.43
11:I1:976:ARG:NH1	15:M1:622:VAL:CG1	1.78	1.43
11:I1:1019:LEU:C	16:N1:409:ALA:CB	1.76	1.43
11:I2:948:ALA:HB1	17:O3:253:LEU:CA	1.45	1.43
1:A3:1325:MET:HE2	3:A6:126:ARG:NE	1.21	1.43
2:A4:772:SER:HA	3:A6:489:LEU:CG	1.20	1.43
2:A4:879:LEU:N	6:D3:567:LEU:HD12	1.31	1.43
11:I1:880:MET:HE2	17:O1:247:TRP:CE3	1.51	1.43
11:I1:1017:VAL:N	16:N1:412:ASN:H	1.03	1.43
11:I1:1540:LYS:CE	11:I2:1739:GLU:HB3	1.48	1.43
17:O3:148:ARG:NH1	18:P3:325:ILE:HG22	1.25	1.43
1:A3:1242:THR:HG21	3:A6:587:VAL:CB	1.15	1.42
2:A4:555:VAL:CG2	3:A6:437:ARG:NH2	1.79	1.42
2:A4:710:LEU:C	3:A6:462:LEU:HD22	1.17	1.42
2:A4:854:VAL:HG13	3:A6:173:ASN:N	1.21	1.42
2:A4:946:LYS:CB	4:B6:351:GLU:H	1.29	1.42
11:I1:951:LYS:CG	16:N1:400:LEU:O	1.66	1.42
11:I1:1066:LEU:CB	16:N1:430:ARG:HD3	1.46	1.42
11:I2:981:VAL:CB	20:R3:147:LEU:HD21	1.46	1.42
11:I2:989:GLY:HA3	15:M3:614:ASP:CG	1.08	1.42
2:A2:973:GLU:CG	6:D1:192:TYR:CZ	1.95	1.42
1:A3:1226:LEU:C	3:A6:551:GLN:HG3	1.34	1.42
2:A4:720:LEU:CA	3:A6:495:ASP:N	1.69	1.42
6:D7:531:LEU:N	11:I3:181:GLN:CB	1.79	1.42
11:I1:884:LEU:HD12	16:N1:400:LEU:CD1	1.47	1.42
11:I2:846:ILE:HG22	17:O3:247:TRP:CZ2	1.54	1.42
11:I2:948:ALA:HB2	17:O3:256:TYR:CB	1.49	1.42
1:A3:1259:CYS:SG	3:A6:624:ASP:CA	2.06	1.42
1:A3:1260:ALA:CB	3:A6:719:ARG:HH21	1.32	1.42
1:A3:1389:SER:HB2	3:A6:224:PRO:CA	1.36	1.42
1:A3:1389:SER:CB	3:A6:224:PRO:HA	1.32	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:648:TYR:HD2	3:A6:503:GLN:C	1.13	1.42
2:A4:793:SER:HB3	3:A6:146:LYS:CD	1.48	1.42
2:A4:825:ARG:NH2	3:A6:564:ASN:HD22	1.13	1.42
3:A5:1005:PHE:CE1	11:I5:67:LYS:HE3	1.53	1.42
4:B5:344:ALA:HB2	5:C2:740:ARG:NH2	1.16	1.42
11:I1:984:GLU:CG	15:M1:614:ASP:O	1.68	1.42
11:I1:1042:LEU:CA	15:M1:616:LEU:HD21	1.46	1.42
1:A1:1221:ILE:HG23	2:A2:642:ARG:C	1.39	1.42
2:A2:780:GLU:HB2	6:D1:677:GLN:C	1.39	1.42
2:A2:1138:GLU:CB	3:A5:147:LEU:CD1	1.93	1.42
2:A2:1160:GLN:CD	3:A5:165:PHE:HA	1.39	1.42
1:A3:1261:TYR:CE1	3:A6:621:GLN:HB3	1.50	1.42
2:A4:611:ILE:CB	3:A6:508:LEU:CG	1.96	1.42
2:A4:824:ASN:O	3:A6:138:LEU:CD1	1.67	1.42
3:A6:520:GLU:CG	6:D3:681:ALA:HB2	1.46	1.42
3:A6:1368:GLN:CA	28:Z4:875:LEU:CA	1.95	1.42
11:I1:916:ALA:HB3	15:M1:586:ASP:CA	1.44	1.42
11:I1:962:ILE:CG2	20:R1:166:LEU:HG	0.96	1.42
11:I2:883:ALA:CB	17:O3:246:LEU:HB3	1.19	1.42
2:A2:982:THR:HG21	6:D1:494:LEU:C	1.03	1.42
1:A3:1224:PRO:CB	2:A4:731:ILE:CD1	1.82	1.42
1:A3:1240:HIS:ND1	3:A6:118:SER:HB3	1.33	1.42
1:A3:1321:MET:HE3	3:A6:571:ARG:NH2	1.16	1.42
2:A4:611:ILE:CB	3:A6:508:LEU:HG	1.47	1.42
2:A4:614:ALA:CB	3:A6:502:THR:HG23	1.47	1.42
2:A4:682:ARG:HH21	3:A6:105:GLY:N	0.99	1.42
2:A4:720:LEU:CD1	3:A6:510:TYR:CE1	1.89	1.42
2:A4:781:ARG:NH2	6:D3:633:LYS:CE	1.83	1.42
11:I1:849:LEU:HD13	17:O1:247:TRP:CE3	1.53	1.42
11:I1:927:HIS:CD2	15:M1:594:LYS:CA	2.03	1.42
11:I1:1021:ILE:HA	16:N1:406:HIS:ND1	1.31	1.42
11:I1:1029:LEU:CB	20:R1:171:ALA:O	1.68	1.42
11:I1:1104:LEU:HB3	16:N1:436:ALA:CB	1.50	1.42
11:I2:1017:VAL:HG23	16:N3:411:GLN:CA	1.21	1.42
2:A4:825:ARG:HH22	3:A6:564:ASN:ND2	1.12	1.41
2:A4:886:PHE:CE1	3:A6:176:LEU:HG	1.53	1.41
4:B5:344:ALA:CA	5:C2:737:LYS:HD3	1.40	1.41
8:F1:1137:GLN:CB	17:O2:248:SER:H	1.29	1.41
11:I1:1669:ARG:N	11:I2:1664:PHE:CZ	1.80	1.41
11:I2:887:GLN:NE2	16:N3:393:ILE:CA	1.79	1.41
1:A3:1237:LEU:CD2	3:A6:119:TRP:NE1	1.80	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1248:ILE:HG12	3:A6:587:VAL:CA	1.39	1.41
1:A3:1266:GLY:H	3:A6:716:ASN:ND2	1.14	1.41
2:A4:946:LYS:CA	4:B6:348:PRO:HG2	1.41	1.41
3:A5:232:LEU:HD21	5:C2:739:MET:N	1.22	1.41
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CA	1.50	1.41
11:I2:887:GLN:CD	16:N3:393:ILE:HA	1.23	1.41
11:I2:917:TYR:CD2	15:M3:591:ASP:N	1.76	1.41
11:I2:1034:ASP:OD2	15:M3:630:LEU:CB	1.66	1.41
11:I3:1276:GLN:NE2	26:X1:535:ALA:HA	1.27	1.41
1:A3:1277:TRP:HB3	3:A6:556:PRO:CG	1.49	1.41
2:A4:652:PRO:CB	3:A6:542:LEU:CD1	1.98	1.41
2:A4:682:ARG:NH2	3:A6:105:GLY:CA	1.79	1.41
2:A4:947:LYS:CE	3:A6:235:TYR:CE2	1.89	1.41
8:F1:1267:ARG:CG	17:O2:265:ASN:OD1	1.64	1.41
17:O3:151:LEU:CD2	18:P3:325:ILE:CD1	1.98	1.41
1:A3:1271:ILE:HB	3:A6:550:VAL:CG1	1.49	1.41
2:A4:86:ASN:N	3:A6:394:LEU:N	1.63	1.41
2:A4:702:SER:CB	3:A6:379:VAL:HG11	1.48	1.41
2:A4:878:LEU:CD2	6:D3:607:PRO:CB	1.89	1.41
11:I1:992:ILE:H	15:M1:608:LYS:CG	1.08	1.41
11:I2:1109:LEU:HD12	17:O3:286:ILE:CG2	1.51	1.41
11:I4:813:ILE:CD1	26:X3:496:THR:CG2	1.78	1.41
23:U3:278:GLN:NE2	25:W4:189:SER:CA	1.79	1.41
1:A3:1248:ILE:CD1	3:A6:587:VAL:HA	1.44	1.41
2:A4:553:ASP:OD1	3:A6:434:PHE:CA	1.65	1.41
2:A4:616:ALA:HB1	3:A6:109:ASP:CG	1.04	1.41
2:A4:869:ALA:N	6:D3:570:VAL:HG13	1.17	1.41
3:A5:993:ASN:C	11:I5:57:GLU:HG2	1.02	1.41
11:I1:922:ASP:N	15:M1:592:LEU:HD23	1.35	1.41
11:I1:1109:LEU:CG	17:O1:290:TYR:HE2	1.34	1.41
11:I2:911:PRO:CB	15:M3:584:GLN:NE2	1.83	1.41
11:I2:945:LEU:CD1	17:O3:255:GLY:O	1.69	1.41
11:I2:983:LEU:CD2	15:M3:617:THR:CB	1.80	1.41
1:A3:1021:LEU:CD1	6:D3:816:VAL:O	1.68	1.40
8:F1:1205:TRP:NE1	17:O2:251:ILE:HG23	1.29	1.40
11:I1:1020:ALA:CB	16:N1:405:ALA:O	1.65	1.40
11:I2:874:LEU:HA	17:O3:255:GLY:CA	1.49	1.40
11:I2:942:HIS:CB	17:O3:259:ASP:C	1.89	1.40
11:I2:1110:SER:OG	16:N3:438:LEU:CG	1.63	1.40
2:A4:90:GLN:CD	3:A6:427:MET:CA	1.79	1.40
2:A4:614:ALA:HB3	3:A6:502:THR:CG2	1.49	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:796:GLN:N	3:A6:249:SER:CB	1.83	1.40
2:A4:986:THR:CG2	6:D3:504:LYS:CD	1.97	1.40
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB3	1.37	1.40
3:A5:1395:LYS:CA	28:Z2:873:LEU:CB	1.99	1.40
3:A6:1403:MSE:HE1	28:Z4:964:LEU:CA	1.49	1.40
11:I1:840:LEU:HG	17:O1:244:GLU:CG	1.41	1.40
11:I1:884:LEU:CD1	17:O1:246:LEU:HD21	1.52	1.40
11:I1:1109:LEU:H	16:N1:441:PHE:N	1.05	1.40
2:A2:1094:ILE:HD13	6:D2:759:GLN:NE2	1.17	1.40
2:A4:85:VAL:HG13	3:A6:405:PHE:CD1	1.57	1.40
2:A4:90:GLN:NE2	3:A6:427:MET:HG3	1.09	1.40
2:A4:711:VAL:HA	3:A6:490:PHE:CB	1.36	1.40
3:A5:234:LEU:HD23	5:C2:738:ASP:C	1.42	1.40
3:A5:1029:ILE:H	11:I5:68:ILE:N	1.04	1.40
8:F2:1049:GLN:NE2	17:O4:237:PRO:HB3	1.23	1.40
11:I1:879:VAL:CG1	17:O1:244:GLU:O	1.68	1.40
11:I2:950:LEU:HD21	16:N3:410:MET:CE	1.51	1.40
11:I3:1277:LEU:HD21	26:X1:513:PHE:CB	1.48	1.40
1:A1:1222:ALA:CB	2:A2:615:LEU:CD1	2.00	1.40
2:A2:870:HIS:CE1	6:D1:566:PHE:HA	1.06	1.40
1:A3:1233:GLN:CA	3:A6:578:ILE:CB	1.93	1.40
2:A4:1055:ARG:HD3	6:D4:762:ARG:CB	1.49	1.40
8:F1:1094:GLY:CA	17:O2:237:PRO:HA	1.51	1.40
11:I1:938:CYS:CB	15:M1:606:LEU:HD12	0.95	1.40
11:I1:1017:VAL:H	16:N1:412:ASN:N	1.09	1.40
11:I1:1051:LYS:HE3	17:O1:289:ASP:N	1.29	1.40
11:I2:1109:LEU:CB	17:O3:290:TYR:CE2	1.87	1.40
11:I3:1270:LYS:CE	26:X1:530:ARG:HG2	1.39	1.40
1:A1:1331:GLU:OE1	2:A2:857:LYS:CE	1.70	1.40
1:A3:1124:ARG:H	3:A6:599:ARG:CZ	1.34	1.40
1:A3:1201:ARG:CG	2:A4:728:LYS:O	1.65	1.40
1:A3:1277:TRP:O	3:A6:625:LEU:CD2	1.68	1.40
2:A4:721:ARG:C	3:A6:572:ARG:NH2	1.74	1.40
2:A4:872:ALA:CB	6:D3:565:MET:CE	1.99	1.40
3:A6:1403:MSE:HG2	26:X4:742:ALA:CA	1.47	1.40
11:I1:833:PHE:HE2	17:O1:238:ALA:CA	1.14	1.40
11:I1:955:LYS:HE3	16:N1:397:GLU:C	1.42	1.40
11:I1:1604:ALA:CA	11:I2:1739:GLU:O	1.68	1.40
11:I2:900:ARG:HA	17:O3:232:LYS:CE	1.49	1.40
11:I2:981:VAL:CB	20:R3:147:LEU:CD2	1.96	1.40
11:I2:989:GLY:CA	15:M3:614:ASP:CG	1.90	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1109:LEU:HD13	17:O3:290:TYR:CE2	1.52	1.40
2:A2:980:ARG:NH2	6:D1:503:LEU:HB2	1.28	1.39
1:A3:1254:LEU:HD12	3:A6:638:GLU:CG	1.02	1.39
1:A3:1285:LEU:HA	3:A6:581:LYS:CE	1.13	1.39
2:A4:543:GLY:C	3:A6:365:MET:N	1.74	1.39
2:A4:642:ARG:C	3:A6:501:VAL:HG12	1.38	1.39
2:A4:729:SER:HB3	3:A6:678:LEU:CD2	0.93	1.39
2:A4:897:ASN:N	3:A6:165:PHE:HA	1.12	1.39
2:A4:983:LEU:CD1	6:D3:553:PHE:O	1.66	1.39
3:A6:520:GLU:CB	6:D3:635:ALA:HB1	1.52	1.39
3:A6:1406:GLY:CA	26:X4:744:MET:CB	2.00	1.39
11:I1:916:ALA:H	15:M1:586:ASP:N	1.16	1.39
11:I2:898:VAL:CG2	17:O3:237:PRO:HD3	1.48	1.39
2:A4:852:ASP:CB	3:A6:154:GLY:O	1.69	1.39
2:A4:971:ALA:N	6:D3:202:GLN:HG2	1.25	1.39
3:A6:484:PRO:CD	6:D3:672:GLU:HG2	1.52	1.39
9:G1:263:MET:CA	16:N2:411:GLN:HB2	1.51	1.39
11:I1:837:MET:SD	17:O1:242:ARG:CA	2.10	1.39
11:I1:937:TYR:HB3	17:O1:258:GLU:CA	1.51	1.39
11:I1:981:VAL:CG1	20:R1:151:LYS:CB	2.00	1.39
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CZ	1.40	1.39
11:I2:951:LYS:CE	16:N3:400:LEU:O	1.69	1.39
11:I2:1045:PHE:CZ	16:N3:434:LEU:HB3	1.56	1.39
1:A1:1197:ALA:HB3	2:A2:728:LYS:NZ	1.24	1.39
2:A2:826:ASN:CG	6:D1:633:LYS:CB	1.90	1.39
1:A3:1274:ASP:O	3:A6:556:PRO:CD	1.70	1.39
2:A4:825:ARG:N	3:A6:138:LEU:HD12	1.30	1.39
2:A4:877:ALA:CA	6:D3:563:GLU:CA	1.89	1.39
3:A5:1029:ILE:CG2	11:I5:70:GLU:N	1.85	1.39
5:C1:732:LYS:NZ	11:I1:1225:LYS:HD2	1.20	1.39
11:I1:1035:GLN:C	16:N1:441:PHE:CZ	1.94	1.39
11:I1:1056:PRO:HA	17:O1:278:GLU:CB	1.09	1.39
11:I1:1108:PRO:CG	16:N1:443:GLU:HB3	1.51	1.39
11:I1:1669:ARG:NH1	11:I2:1642:LEU:HD13	1.32	1.39
11:I2:894:VAL:CG1	17:O3:237:PRO:C	1.91	1.39
11:I2:956:ILE:O	20:R3:166:LEU:CD1	1.67	1.39
11:I4:813:ILE:CD1	26:X3:496:THR:HG21	0.94	1.39
2:A2:1154:PHE:CD2	3:A5:175:GLU:OE1	1.74	1.39
1:A3:1196:GLU:C	3:A6:609:GLU:HA	1.27	1.39
1:A3:1228:TYR:HD1	3:A6:551:GLN:CB	1.33	1.39
1:A3:1325:MET:HE2	3:A6:126:ARG:CZ	1.52	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:642:ARG:CG	3:A6:501:VAL:HB	1.50	1.39
2:A4:691:LYS:HB3	3:A6:316:ARG:NE	1.08	1.39
2:A4:781:ARG:NH2	6:D3:633:LYS:HE2	1.30	1.39
2:A4:925:LYS:CD	3:A6:233:THR:HA	1.48	1.39
11:I1:924:ILE:HD13	15:M1:595:MET:CG	1.48	1.39
11:I1:962:ILE:HG21	20:R1:166:LEU:CG	0.92	1.39
11:I1:976:ARG:HH12	15:M1:622:VAL:CG1	1.32	1.39
17:O3:148:ARG:CZ	18:P3:325:ILE:CG2	2.01	1.39
2:A2:870:HIS:CE1	6:D1:566:PHE:CA	1.78	1.39
2:A2:973:GLU:HG2	6:D1:192:TYR:CD2	1.58	1.39
1:A3:1230:TYR:CE1	3:A6:610:THR:CA	1.76	1.39
2:A4:791:ALA:N	3:A6:187:THR:HG22	1.36	1.39
2:A4:859:GLN:CG	3:A6:176:LEU:HD21	1.50	1.39
3:A5:1029:ILE:HG23	11:I5:69:GLY:C	1.43	1.39
3:A5:1374:ALA:HB2	28:Z2:823:ALA:C	1.39	1.39
11:I1:884:LEU:CG	17:O1:246:LEU:CD2	1.81	1.39
11:I1:967:SER:HB2	15:M1:625:GLY:CA	1.53	1.39
11:I1:987:GLY:N	15:M1:613:ASP:N	1.66	1.39
11:I1:1013:GLU:CA	16:N1:411:GLN:OE1	1.70	1.39
11:I2:961:ARG:NH2	16:N3:388:LYS:C	1.76	1.39
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD2	1.46	1.39
2:A2:1141:GLU:O	3:A5:129:ASN:CA	1.69	1.38
1:A3:1116:HIS:HB3	3:A6:596:ARG:NH2	1.30	1.38
1:A3:1201:ARG:HB3	2:A4:735:ALA:N	1.09	1.38
2:A4:720:LEU:CD2	3:A6:494:PRO:CA	2.00	1.38
2:A4:737:PRO:CB	3:A6:93:ASP:OD2	1.70	1.38
2:A4:769:GLU:C	3:A6:528:ILE:HG21	1.43	1.38
2:A4:771:ILE:HD11	3:A6:476:PHE:CE1	1.55	1.38
2:A4:799:ASP:OD1	3:A6:250:PHE:CE2	1.75	1.38
3:A6:444:ARG:CG	6:D3:737:PHE:CZ	2.04	1.38
5:C3:732:LYS:NZ	11:I2:1225:LYS:HD2	1.35	1.38
11:I1:976:ARG:N	20:R1:149:ARG:HD3	1.38	1.38
11:I2:942:HIS:HB3	17:O3:259:ASP:CG	1.01	1.38
11:I2:1029:LEU:HD11	16:N3:433:GLU:CG	1.50	1.38
11:I4:819:MET:CE	27:Y3:178:PHE:CE1	2.04	1.38
2:A4:677:ALA:CB	3:A6:98:LEU:CG	1.88	1.38
2:A4:806:PHE:CE2	3:A6:395:MET:HE1	1.58	1.38
2:A4:859:GLN:CB	3:A6:134:VAL:HG23	1.53	1.38
2:A4:908:LEU:CA	6:D3:552:TYR:HE1	1.35	1.38
11:I2:959:SER:N	20:R3:166:LEU:CD1	1.67	1.38
11:I2:962:ILE:HG23	20:R3:166:LEU:C	1.17	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1276:GLN:NE2	26:X1:535:ALA:C	1.73	1.38
21:S1:677:TYR:C	21:S2:1127:GLN:HB3	1.39	1.38
1:A1:831:ALA:O	6:D3:298:ASN:CB	1.71	1.38
2:A2:864:ARG:NH1	6:D1:610:ASN:ND2	1.71	1.38
1:A3:1282:PHE:CB	3:A6:625:LEU:O	1.69	1.38
2:A4:854:VAL:HG12	3:A6:174:PRO:N	1.35	1.38
2:A4:865:ALA:CB	6:D3:567:LEU:HD21	1.52	1.38
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB2	1.48	1.38
3:A5:1029:ILE:H	11:I5:67:LYS:C	1.22	1.38
11:I1:846:ILE:CD1	15:M1:594:LYS:CB	2.01	1.38
11:I1:1042:LEU:HA	15:M1:616:LEU:CD2	1.51	1.38
11:I2:797:LEU:HD13	17:O3:245:GLU:CA	1.51	1.38
11:I2:957:SER:CB	20:R3:168:LEU:HA	0.92	1.38
11:I2:981:VAL:CA	20:R3:147:LEU:CD2	2.00	1.38
11:I3:1271:GLU:HB3	26:X1:525:ILE:CG2	1.51	1.38
2:A2:1159:ASP:HA	4:B5:342:ARG:N	1.36	1.38
1:A3:1237:LEU:CD2	3:A6:119:TRP:CE2	2.07	1.38
2:A4:712:THR:O	3:A6:490:PHE:CZ	1.75	1.38
11:I1:927:HIS:HD2	15:M1:594:LYS:CA	1.34	1.38
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH2	1.85	1.38
17:O3:101:ASN:CB	18:P3:326:GLN:HE21	1.34	1.38
21:S1:655:ASN:H	21:S2:1156:ILE:C	1.26	1.38
1:A3:1223:GLU:CB	2:A4:676:LEU:HD11	1.50	1.38
1:A3:1250:PRO:HG2	3:A6:635:ARG:CB	1.54	1.37
2:A4:542:LEU:HG	3:A6:364:HIS:CE1	1.52	1.38
2:A4:909:LYS:HG2	6:D3:552:TYR:CZ	1.57	1.38
6:D6:800:PRO:CG	22:T3:765:LYS:CG	2.01	1.38
11:I1:1605:LEU:HD13	11:I2:1669:ARG:CD	1.50	1.38
11:I2:887:GLN:NE2	16:N3:393:ILE:HA	1.05	1.37
18:P2:319:VAL:CG2	18:P3:278:ASN:OD1	1.70	1.38
1:A3:1201:ARG:CB	2:A4:735:ALA:H	1.34	1.37
1:A3:1229:VAL:N	3:A6:574:ARG:HB3	1.36	1.37
2:A4:689:LYS:HG2	3:A6:396:ALA:CB	1.54	1.37
2:A4:789:LEU:HD22	3:A6:146:LYS:CG	1.54	1.37
3:A5:1369:ILE:CG2	28:Z2:830:LEU:CB	1.86	1.37
3:A5:1395:LYS:CG	28:Z2:873:LEU:H	1.34	1.37
3:A6:444:ARG:CG	6:D3:733:ALA:HB1	1.54	1.37
11:I1:883:ALA:CB	17:O1:246:LEU:HB2	1.47	1.37
1:A1:870:HIS:HB2	6:D3:280:GLN:N	1.05	1.37
1:A1:1399:ARG:N	2:A2:888:GLN:OE1	1.56	1.37
2:A2:869:ALA:CB	6:D1:574:VAL:HG23	1.52	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1189:LEU:CD2	3:A6:614:ALA:HB2	1.53	1.37
1:A3:1198:GLU:CA	3:A6:682:ARG:CZ	1.82	1.37
2:A4:860:GLU:CG	6:D3:606:LYS:HB2	1.21	1.37
2:A4:886:PHE:HA	3:A6:175:GLU:N	1.08	1.37
2:A4:983:LEU:HD12	6:D3:553:PHE:CB	1.54	1.37
3:A6:442:ARG:NH2	6:D3:741:ILE:HA	1.35	1.37
8:F1:1137:GLN:CA	17:O2:248:SER:OG	1.69	1.37
11:I2:950:LEU:HD11	16:N3:410:MET:CG	1.50	1.37
1:A1:1201:ARG:CD	2:A2:734:LEU:HD23	1.53	1.37
1:A1:1221:ILE:CG2	2:A2:645:PHE:H	1.34	1.37
2:A2:1160:GLN:NE2	3:A5:166:LEU:H	1.14	1.37
11:I1:920:PHE:CE1	17:O1:247:TRP:NE1	1.92	1.37
11:I1:1040:HIS:NE2	16:N1:437:VAL:CG2	1.80	1.37
11:I2:942:HIS:HB2	17:O3:259:ASP:CA	1.54	1.37
11:I2:947:LEU:HG	16:N3:407:ALA:C	1.45	1.37
11:I2:981:VAL:N	20:R3:147:LEU:HD11	1.07	1.37
11:I3:1267:LEU:CB	26:X1:497:ARG:CZ	2.02	1.37
2:A4:724:LEU:HD23	3:A6:496:THR:CA	1.17	1.37
2:A4:730:THR:OG1	3:A6:609:GLU:CG	1.73	1.37
2:A4:860:GLU:CG	6:D3:606:LYS:CB	1.92	1.37
3:A6:444:ARG:O	6:D3:719:LEU:HA	1.20	1.37
11:I1:1018:LYS:HE3	16:N1:413:VAL:C	1.44	1.37
11:I1:1049:LEU:CD1	15:M1:626:HIS:CD2	2.05	1.37
11:I2:947:LEU:CG	16:N3:407:ALA:O	1.70	1.37
11:I3:1267:LEU:CB	26:X1:497:ARG:NH2	1.88	1.37
11:I3:1267:LEU:HB3	26:X1:497:ARG:NH2	1.39	1.37
17:O3:151:LEU:HD21	18:P3:325:ILE:CD1	1.54	1.37
2:A2:1142:PHE:CE2	3:A5:567:VAL:HB	1.57	1.36
1:A3:1167:CYS:N	3:A6:594:LEU:HD23	1.38	1.36
2:A4:729:SER:CB	3:A6:678:LEU:CD2	1.84	1.36
2:A4:761:GLN:OE1	3:A6:547:GLU:HG3	1.22	1.36
2:A4:865:ALA:CB	6:D3:567:LEU:CD2	2.02	1.36
3:A5:232:LEU:CD2	5:C2:739:MET:H	1.36	1.36
3:A5:1027:HIS:CE1	11:I5:65:LYS:HB3	1.44	1.36
11:I1:846:ILE:C	15:M1:594:LYS:CD	1.77	1.36
11:I1:1070:LEU:N	16:N1:429:GLU:HG2	1.35	1.36
11:I1:1103:LEU:CD1	20:R1:175:GLN:CG	2.02	1.36
11:I4:1270:LYS:CE	26:X3:527:VAL:HG11	1.46	1.36
1:A1:1221:ILE:HG22	2:A2:645:PHE:N	1.32	1.36
2:A2:1148:ARG:HD2	3:A5:171:HIS:O	1.22	1.36
2:A2:1154:PHE:CD2	3:A5:175:GLU:CD	1.97	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:OE1	3:A6:605:TYR:CE2	1.77	1.36
2:A4:710:LEU:CB	3:A6:480:VAL:CG2	2.01	1.36
2:A4:859:GLN:CG	3:A6:134:VAL:CG2	2.00	1.36
2:A4:870:HIS:O	6:D3:551:PHE:CD2	1.77	1.36
3:A5:160:ILE:CD1	5:C2:743:LEU:CD1	2.01	1.36
3:A5:172:PRO:HD2	5:C2:730:HIS:CG	1.57	1.36
3:A5:1094:ILE:CG2	11:I5:4:LEU:CB	1.93	1.36
11:I1:952:LEU:CA	16:N1:400:LEU:CD2	2.03	1.36
11:I2:900:ARG:CA	17:O3:232:LYS:CD	2.00	1.36
17:O3:102:LYS:CB	18:P3:322:LYS:NZ	1.86	1.36
2:A4:672:ARG:CB	3:A6:96:PRO:HG3	1.12	1.36
2:A4:753:GLU:OE2	3:A6:542:LEU:CD2	1.73	1.36
2:A4:777:LEU:HD12	3:A6:467:LEU:CD1	1.52	1.36
2:A4:854:VAL:HG21	3:A6:172:PRO:CD	1.30	1.36
11:I1:883:ALA:HB1	17:O1:243:LEU:CA	1.56	1.36
11:I1:946:THR:CB	17:O1:260:LEU:CD2	1.96	1.36
11:I2:797:LEU:HD22	17:O3:245:GLU:CG	1.54	1.36
11:I2:997:SER:OG	16:N3:427:VAL:HG23	1.22	1.36
2:A2:973:GLU:CD	6:D1:205:LEU:HD13	1.28	1.36
1:A3:1240:HIS:CE1	3:A6:118:SER:N	1.91	1.36
1:A3:1311:ARG:HE	3:A6:715:GLU:CD	1.29	1.36
2:A4:855:THR:HG22	3:A6:168:ASP:C	1.45	1.36
3:A5:1026:PRO:HB2	11:I5:73:TYR:CD1	1.39	1.36
3:A6:520:GLU:H	6:D3:681:ALA:N	1.22	1.36
11:I1:1056:PRO:CA	17:O1:278:GLU:CB	1.88	1.36
11:I3:1277:LEU:CD1	26:X1:511:TYR:CE2	2.09	1.36
17:O3:151:LEU:HD22	18:P3:325:ILE:CB	1.48	1.36
2:A2:781:ARG:NE	6:D1:673:ARG:NH1	1.72	1.36
2:A4:720:LEU:CD2	3:A6:494:PRO:CB	2.03	1.36
3:A5:1360:GLY:O	28:Z2:875:LEU:CB	1.72	1.36
3:A6:1368:GLN:CA	28:Z4:875:LEU:HA	1.48	1.36
11:I2:853:ILE:CG1	17:O3:254:ARG:HD3	1.41	1.36
11:I2:952:LEU:HD23	15:M3:602:MET:CB	1.53	1.36
17:O3:158:GLU:HG3	18:P3:316:LEU:N	1.41	1.36
21:S1:668:ILE:HA	21:S2:1146:ALA:CB	1.54	1.36
1:A1:870:HIS:CB	6:D3:279:HIS:ND1	1.87	1.35
2:A2:870:HIS:CD2	6:D1:566:PHE:CD1	2.13	1.35
1:A3:1261:TYR:CE1	3:A6:621:GLN:CG	2.03	1.35
2:A4:721:ARG:N	3:A6:493:ALA:C	1.77	1.35
2:A4:780:GLU:HA	6:D3:679:ILE:CD1	1.35	1.35
2:A4:869:ALA:H	6:D3:570:VAL:CG1	1.38	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1137:GLN:CG	17:O2:249:ARG:N	1.82	1.35
8:F1:1137:GLN:HG2	17:O2:248:SER:CA	1.55	1.35
11:I1:841:PHE:CE2	17:O1:243:LEU:HD11	1.58	1.35
11:I1:945:LEU:CD2	17:O1:258:GLU:HB2	1.55	1.35
11:I1:1739:GLU:O	11:I2:1604:ALA:CA	1.73	1.35
11:I2:891:LEU:CD1	16:N3:393:ILE:CD1	2.03	1.35
11:I2:1109:LEU:CG	16:N3:438:LEU:CD2	1.88	1.35
2:A2:970:PHE:CD2	6:D1:498:GLU:OE1	1.80	1.35
2:A4:769:GLU:O	3:A6:528:ILE:CD1	1.74	1.35
2:A4:896:ALA:O	3:A6:165:PHE:CD1	1.77	1.35
3:A5:1363:ASP:CB	28:Z2:875:LEU:CB	2.03	1.35
3:A6:446:LEU:CD1	6:D3:721:PRO:HA	1.56	1.35
21:S1:678:GLU:CA	21:S2:1127:GLN:HG2	1.42	1.35
1:A3:1185:THR:CB	3:A6:639:ASN:O	1.74	1.35
1:A3:1261:TYR:CD1	3:A6:621:GLN:CD	1.96	1.35
1:A3:1261:TYR:HB3	3:A6:621:GLN:N	1.33	1.35
1:A3:1281:LEU:N	3:A6:625:LEU:CG	1.70	1.35
2:A4:607:ARG:O	3:A6:506:SER:CA	1.74	1.35
3:A5:165:PHE:N	5:C2:743:LEU:HB2	1.40	1.35
3:A5:1029:ILE:HG22	11:I5:71:GLU:N	1.37	1.35
11:I1:882:LYS:H	17:O1:249:ARG:CB	1.36	1.35
11:I1:1014:ASN:CA	16:N1:411:GLN:O	1.73	1.35
11:I2:898:VAL:CG2	17:O3:236:ASP:HA	1.55	1.35
11:I2:922:ASP:HB2	20:R3:163:LEU:CD1	1.41	1.35
11:I2:942:HIS:HB2	17:O3:259:ASP:C	0.97	1.35
11:I2:1109:LEU:CD1	17:O3:290:TYR:CE2	2.07	1.35
11:I4:819:MET:HE3	27:Y3:178:PHE:CE1	1.60	1.35
1:A3:835:THR:HG21	6:D1:302:PRO:CB	1.55	1.35
2:A4:857:LYS:HZ3	3:A6:129:ASN:ND2	1.23	1.35
2:A4:909:LYS:HD2	6:D3:555:ARG:CZ	1.52	1.35
11:I1:967:SER:CB	15:M1:625:GLY:CA	2.01	1.35
11:I2:964:SER:N	20:R3:165:SER:OG	1.58	1.35
11:I2:1024:PHE:HB3	16:N3:406:HIS:CE1	1.60	1.35
11:I2:1607:GLN:O	12:J1:298:PHE:CG	1.79	1.35
2:A2:982:THR:CG2	6:D1:497:PHE:H	1.20	1.35
2:A2:985:ALA:O	6:D1:500:LYS:NZ	1.60	1.35
2:A2:989:MSE:HE3	6:D1:240:ASP:CA	1.46	1.35
2:A4:536:ALA:H	3:A6:368:SER:C	1.12	1.35
2:A4:893:LEU:HD11	3:A6:175:GLU:CB	1.56	1.35
3:A5:1414:PHE:HA	28:Z2:960:CYS:CB	1.06	1.35
3:A6:1398:LYS:HD2	28:Z4:918:PHE:CA	1.32	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:934:LEU:CB	15:M3:602:MET:O	1.72	1.35
11:I2:1020:ALA:CB	16:N3:410:MET:H	1.40	1.35
23:U3:277:LEU:N	25:W4:192:GLN:NE2	1.73	1.35
2:A2:970:PHE:CD1	6:D1:192:TYR:CE1	2.04	1.34
2:A2:1149:THR:HA	5:C2:730:HIS:C	1.21	1.34
2:A2:1151:THR:HA	5:C2:733:LEU:CD1	1.57	1.34
2:A4:90:GLN:NE2	3:A6:427:MET:CB	1.89	1.34
2:A4:682:ARG:NH2	3:A6:105:GLY:N	1.71	1.34
2:A4:874:VAL:HG23	6:D3:568:ARG:O	1.20	1.34
2:A4:976:LEU:CD1	6:D3:472:PHE:CE2	2.07	1.34
11:I1:880:MET:CG	17:O1:247:TRP:HA	1.54	1.34
11:I2:948:ALA:HB1	17:O3:253:LEU:C	1.42	1.34
21:S1:597:ILE:CB	21:S2:1119:LEU:HB2	1.54	1.34
2:A2:1136:LYS:HG3	3:A5:138:LEU:CB	1.55	1.34
2:A2:1157:TYR:CD1	3:A5:134:VAL:HG23	1.60	1.34
2:A4:770:GLY:C	3:A6:469:PHE:CD2	1.87	1.34
2:A4:821:ALA:CB	3:A6:147:LEU:N	1.89	1.34
2:A4:899:THR:H	3:A6:178:GLY:CA	1.36	1.34
3:A5:1312:ARG:CD	28:Z2:832:PHE:HA	1.49	1.34
8:F1:1262:HIS:ND1	17:O2:259:ASP:CA	1.89	1.34
9:G1:270:ARG:CB	16:N2:413:VAL:O	1.74	1.34
11:I2:881:ILE:CB	17:O3:249:ARG:O	1.73	1.34
11:I2:896:PRO:HA	17:O3:233:THR:CA	1.52	1.34
11:I2:947:LEU:CD2	16:N3:411:GLN:HG2	1.40	1.34
11:I2:980:ILE:HB	15:M3:618:GLN:CA	1.54	1.34
11:I2:983:LEU:CD2	15:M3:617:THR:OG1	1.69	1.34
11:I2:1059:PRO:HB2	17:O3:274:GLY:C	1.44	1.34
1:A1:870:HIS:CB	6:D3:279:HIS:C	1.96	1.34
2:A2:223:THR:CB	6:D1:709:ARG:HH22	1.39	1.34
2:A4:671:SER:O	3:A6:100:SER:CB	1.72	1.34
2:A4:734:LEU:O	3:A6:549:ALA:CB	1.75	1.34
2:A4:947:LYS:HE3	3:A6:235:TYR:CE2	1.19	1.34
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HD3	1.01	1.34
11:I3:1271:GLU:OE1	26:X1:504:ILE:CG2	1.72	1.34
17:O3:158:GLU:CG	18:P3:316:LEU:N	1.91	1.34
2:A2:823:VAL:HA	2:A2:856:PHE:CE1	1.43	1.34
1:A3:1332:ARG:HB2	3:A6:127:HIS:CE1	1.63	1.34
2:A4:642:ARG:CG	3:A6:501:VAL:CB	2.03	1.34
2:A4:868:GLN:CA	6:D3:570:VAL:CG1	2.03	1.34
3:A5:993:ASN:C	11:I5:57:GLU:CG	1.93	1.34
11:I1:881:ILE:C	17:O1:249:ARG:HD3	1.13	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:987:GLY:HA3	15:M1:611:LYS:CG	1.44	1.34
11:I2:914:ASN:O	15:M3:588:MET:N	1.57	1.34
2:A2:988:ARG:HB3	6:D1:500:LYS:NZ	1.01	1.34
2:A2:1150:LEU:N	5:C2:730:HIS:O	1.61	1.34
1:A3:1163:TYR:HD1	3:A6:648:TYR:CB	1.00	1.34
2:A4:701:ILE:CB	3:A6:466:ALA:HB2	1.57	1.34
2:A4:706:PRO:CD	3:A6:482:LYS:HG3	1.23	1.34
2:A4:879:LEU:CD1	6:D3:564:ASN:OD1	1.74	1.34
2:A4:896:ALA:C	3:A6:178:GLY:HA2	1.43	1.34
3:A5:1098:ARG:CD	11:I5:29:GLN:HG2	1.55	1.34
3:A5:1355:VAL:O	28:Z2:878:HIS:HA	1.26	1.34
3:A6:1409:MSE:C	26:X4:686:ASP:CB	1.93	1.34
9:G1:251:TYR:C	17:O2:258:GLU:OE2	1.63	1.34
11:I1:952:LEU:C	16:N1:403:VAL:CG2	1.90	1.34
11:I1:1664:PHE:O	11:I2:1668:HIS:N	1.60	1.34
11:I2:896:PRO:HA	17:O3:232:LYS:C	1.46	1.34
1:A3:1186:TRP:CH2	3:A6:637:THR:CG2	2.10	1.33
1:A3:1242:THR:HG23	3:A6:588:SER:N	1.37	1.33
2:A4:777:LEU:CD1	3:A6:467:LEU:HD11	1.54	1.33
2:A4:876:ARG:HD2	6:D3:558:LYS:C	1.46	1.33
3:A5:160:ILE:CD1	5:C2:743:LEU:HD11	1.56	1.33
3:A5:1312:ARG:HH21	28:Z2:832:PHE:CB	1.37	1.33
11:I1:919:ALA:C	15:M1:592:LEU:HD22	1.42	1.33
11:I1:962:ILE:CD1	15:M1:596:ILE:CG2	1.98	1.33
11:I1:992:ILE:CD1	15:M1:604:ASN:O	1.77	1.33
11:I1:1108:PRO:CB	16:N1:443:GLU:N	1.91	1.33
11:I1:1540:LYS:HE2	11:I2:1739:GLU:CB	1.54	1.33
11:I1:1663:LYS:NZ	11:I2:1659:VAL:O	1.60	1.33
11:I2:880:MET:CE	15:M3:598:GLU:OE1	1.75	1.33
11:I2:947:LEU:HD21	16:N3:411:GLN:CG	1.53	1.33
11:I2:1024:PHE:HB3	16:N3:406:HIS:ND1	1.43	1.33
17:O4:110:LEU:CB	18:P4:321:ILE:HB	1.57	1.33
1:A3:1279:ILE:CA	3:A6:625:LEU:HA	0.91	1.33
2:A4:536:ALA:O	3:A6:362:PHE:CE2	1.81	1.33
2:A4:821:ALA:HB2	3:A6:146:LYS:C	1.46	1.33
2:A4:988:ARG:NH2	6:D3:499:LEU:HA	1.38	1.33
3:A5:153:ILE:CD1	5:C2:739:MET:HE3	1.56	1.33
11:I1:874:LEU:CD2	17:O1:252:VAL:HG13	1.57	1.33
11:I2:1104:LEU:CD2	16:N3:433:GLU:HG3	1.49	1.33
17:O3:102:LYS:CB	18:P3:322:LYS:HZ2	1.38	1.33
1:A3:1203:TYR:CA	3:A6:91:LEU:HG	1.35	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1260:ALA:CB	3:A6:719:ARG:NH2	1.91	1.33
2:A4:648:TYR:CD2	3:A6:503:GLN:C	2.00	1.33
2:A4:715:GLU:CB	3:A6:112:MET:SD	2.14	1.33
2:A4:720:LEU:HD22	3:A6:494:PRO:CA	1.53	1.33
8:F1:1203:TRP:CZ2	17:O2:248:SER:CB	2.02	1.33
8:F1:1264:ARG:CZ	17:O2:263:GLN:O	1.73	1.33
11:I1:976:ARG:N	20:R1:149:ARG:CD	1.89	1.33
11:I1:976:ARG:CZ	15:M1:622:VAL:HG13	1.59	1.33
11:I1:982:GLN:CB	15:M1:621:ARG:NH2	1.81	1.33
11:I1:1069:SER:C	16:N1:429:GLU:HG2	1.37	1.33
11:I2:888:GLU:N	16:N3:393:ILE:CG2	1.91	1.33
1:A1:874:VAL:CG2	6:D3:272:VAL:CG1	2.07	1.33
2:A2:866:SER:O	6:D1:598:ILE:CG2	1.77	1.33
2:A2:1094:ILE:HG12	6:D2:759:GLN:OE1	1.19	1.33
2:A2:1137:ALA:CB	3:A5:564:ASN:CB	2.07	1.33
2:A4:684:VAL:CG2	3:A6:395:MET:SD	2.16	1.33
2:A4:720:LEU:HB3	3:A6:494:PRO:CA	1.40	1.33
11:I1:1103:LEU:HD13	20:R1:175:GLN:CG	1.59	1.33
11:I1:1607:GLN:CG	11:I2:1739:GLU:CA	1.93	1.33
11:I1:1669:ARG:CA	11:I2:1664:PHE:CZ	2.08	1.33
11:I2:920:PHE:CA	15:M3:592:LEU:HA	1.59	1.33
11:I3:1267:LEU:CB	26:X1:497:ARG:HH22	1.39	1.33
2:A2:982:THR:CG2	6:D1:494:LEU:C	1.94	1.33
2:A4:774:VAL:CG1	3:A6:467:LEU:N	1.89	1.33
2:A4:886:PHE:HA	3:A6:174:PRO:C	1.48	1.33
2:A4:889:VAL:CG1	3:A6:171:HIS:CB	2.06	1.33
2:A4:970:PHE:C	6:D3:202:GLN:HG2	1.47	1.33
2:A4:988:ARG:HH22	6:D3:499:LEU:CA	1.40	1.33
4:B5:344:ALA:HB1	5:C2:737:LYS:CD	1.56	1.33
11:I1:797:LEU:HD13	17:O1:245:GLU:CA	1.58	1.33
11:I1:898:VAL:CB	17:O1:235:ASN:O	1.77	1.33
11:I1:952:LEU:CA	16:N1:400:LEU:HD23	1.59	1.33
11:I1:1607:GLN:HG3	11:I2:1739:GLU:CG	1.59	1.33
11:I2:942:HIS:HB2	17:O3:259:ASP:O	1.29	1.33
17:O3:102:LYS:HB3	18:P3:322:LYS:NZ	1.03	1.33
17:O4:110:LEU:HD23	18:P4:321:ILE:N	1.00	1.33
1:A1:1221:ILE:CD1	2:A2:618:ALA:HB2	1.57	1.32
1:A3:1192:GLN:CB	3:A6:645:PHE:CD2	2.00	1.32
1:A3:1325:MET:HE2	3:A6:126:ARG:CD	1.46	1.32
2:A4:614:ALA:CB	3:A6:502:THR:CG2	2.04	1.32
2:A4:706:PRO:HD3	3:A6:482:LYS:CG	0.92	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:754:HIS:CE1	3:A6:685:ARG:HH12	1.44	1.32
11:I1:1605:LEU:CD1	11:I2:1669:ARG:HD2	1.59	1.32
11:I2:896:PRO:CB	17:O3:233:THR:HA	1.58	1.32
2:A2:907:SER:O	6:D1:601:PHE:CA	1.68	1.32
2:A4:701:ILE:HD11	3:A6:466:ALA:N	1.44	1.32
2:A4:760:LEU:HD21	3:A6:98:LEU:CB	1.59	1.32
2:A4:879:LEU:HB2	6:D3:564:ASN:CB	1.58	1.32
2:A4:907:SER:C	6:D3:552:TYR:OH	1.64	1.32
3:A5:1312:ARG:CD	28:Z2:832:PHE:CA	2.02	1.32
6:D6:804:SER:CB	22:T3:764:PHE:CE2	2.10	1.32
6:D7:530:ARG:CG	11:I3:181:GLN:HB2	1.59	1.32
9:G1:263:MET:CA	16:N2:411:GLN:CB	2.06	1.32
11:I2:955:LYS:N	16:N3:403:VAL:HG23	1.43	1.32
11:I2:961:ARG:NH2	16:N3:388:LYS:O	1.61	1.32
11:I2:983:LEU:HD22	15:M3:617:THR:CB	1.19	1.32
11:I2:1021:ILE:CG1	16:N3:410:MET:CE	2.06	1.32
21:S3:678:GLU:CA	21:S4:1144:LEU:H	1.42	1.32
23:U3:278:GLN:NE2	25:W4:189:SER:N	1.77	1.32
2:A2:865:ALA:HB3	6:D1:604:ASP:O	1.19	1.32
2:A2:1145:GLY:N	3:A5:129:ASN:ND2	1.77	1.32
1:A3:1233:GLN:HA	3:A6:578:ILE:CG2	1.59	1.32
2:A4:536:ALA:O	3:A6:369:SER:N	1.59	1.32
2:A4:611:ILE:CG2	3:A6:508:LEU:CD2	1.97	1.32
2:A4:867:GLU:OE1	6:D3:593:ARG:NH2	1.58	1.32
3:A5:1030:THR:N	11:I5:71:GLU:O	1.62	1.32
3:A5:1406:GLY:CA	28:Z2:921:THR:CB	2.05	1.32
8:F1:1137:GLN:CG	17:O2:248:SER:OG	1.75	1.32
11:I1:877:ILE:HG21	17:O1:253:LEU:CA	1.59	1.32
11:I1:1109:LEU:CD1	17:O1:290:TYR:CD2	2.09	1.32
11:I1:1604:ALA:HA	11:I2:1739:GLU:C	1.49	1.32
11:I2:884:LEU:HD11	15:M3:599:ILE:CD1	1.59	1.32
11:I2:966:TRP:CZ3	20:R3:167:GLN:CG	2.11	1.32
11:I2:1037:THR:CG2	20:R3:169:GLY:HA2	1.58	1.32
1:A3:1172:HIS:CB	3:A6:587:VAL:O	1.78	1.32
1:A3:1200:ARG:NH1	3:A6:608:VAL:HB	1.45	1.32
1:A3:1229:VAL:CA	3:A6:574:ARG:HB3	1.59	1.32
1:A3:1249:PHE:CB	3:A6:633:MET:SD	2.17	1.32
2:A4:778:PHE:N	3:A6:481:ARG:NH1	1.74	1.32
2:A4:779:ASP:O	6:D3:674:TYR:HA	1.26	1.32
2:A4:877:ALA:HA	6:D3:563:GLU:CA	1.03	1.32
2:A4:897:ASN:HA	3:A6:165:PHE:CB	1.58	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:220:VAL:HG11	5:C2:739:MET:CB	1.58	1.32
11:I2:899:LEU:C	17:O3:232:LYS:HG2	1.50	1.32
11:I2:900:ARG:HA	17:O3:232:LYS:CG	1.54	1.32
11:I2:1046:HIS:CB	17:O3:280:GLU:O	1.76	1.32
1:A3:1261:TYR:CB	3:A6:621:GLN:HG2	0.95	1.32
1:A3:1274:ASP:HB2	3:A6:556:PRO:C	1.50	1.32
2:A4:642:ARG:NE	3:A6:501:VAL:HG21	1.45	1.32
2:A4:771:ILE:N	3:A6:477:PHE:CB	1.86	1.32
2:A4:897:ASN:N	3:A6:177:ILE:O	1.59	1.32
2:A4:1151:THR:HA	5:C4:733:LEU:CD1	1.57	1.32
3:A6:1370:ALA:N	28:Z4:874:ASN:CB	1.90	1.32
8:F1:1261:TYR:CD1	17:O2:263:GLN:HB2	1.63	1.32
11:I1:1037:THR:HA	15:M1:624:ASN:ND2	1.41	1.32
11:I1:1056:PRO:HA	17:O1:278:GLU:CG	1.59	1.32
11:I1:1669:ARG:HH12	11:I2:1642:LEU:CD1	1.43	1.32
11:I2:894:VAL:CB	17:O3:239:GLN:H	1.05	1.32
11:I2:1031:ALA:N	20:R3:173:LEU:CA	1.91	1.32
11:I2:1104:LEU:HD21	16:N3:433:GLU:CG	1.53	1.32
17:O4:112:GLY:CA	18:P1:278:ASN:HB2	1.58	1.32
21:S3:686:ALA:CB	21:S4:1153:GLN:CB	2.06	1.32
2:A2:980:ARG:CG	6:D1:473:GLU:CG	2.08	1.31
1:A3:1260:ALA:CB	3:A6:719:ARG:CD	2.07	1.31
2:A4:542:LEU:CG	3:A6:364:HIS:CE1	1.95	1.31
2:A4:550:VAL:CG2	3:A6:367:ASP:CB	2.08	1.31
2:A4:615:LEU:HB3	3:A6:509:LYS:O	1.22	1.31
2:A4:652:PRO:CB	3:A6:542:LEU:HD13	1.57	1.31
2:A4:1149:THR:CA	5:C4:730:HIS:O	1.76	1.31
3:A6:132:ASP:CB	6:D3:607:PRO:HD3	1.60	1.31
3:A6:446:LEU:HD11	6:D3:721:PRO:CB	1.60	1.31
3:A6:1403:MSE:CG	26:X4:742:ALA:O	1.76	1.31
11:I1:1052:LEU:HD12	17:O1:287:LEU:CD1	1.57	1.31
11:I3:1267:LEU:HD21	26:X1:529:TRP:CH2	1.63	1.31
1:A3:1021:LEU:CB	6:D3:816:VAL:CG1	2.06	1.31
1:A3:1198:GLU:CB	3:A6:678:LEU:HG	1.36	1.31
3:A6:132:ASP:OD2	6:D3:607:PRO:CD	1.79	1.31
6:D6:800:PRO:HG3	22:T3:765:LYS:CG	1.58	1.31
6:D7:531:LEU:N	11:I3:181:GLN:HB3	1.31	1.31
11:I1:945:LEU:HD23	17:O1:259:ASP:N	1.01	1.31
11:I1:947:LEU:CA	16:N1:407:ALA:CB	2.08	1.31
11:I1:1013:GLU:O	16:N1:411:GLN:CD	1.67	1.31
11:I1:1049:LEU:HD12	15:M1:626:HIS:NE2	1.37	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1049:LEU:HD22	20:R1:146:LEU:CD2	1.60	1.31
11:I2:874:LEU:CA	17:O3:255:GLY:CA	2.04	1.31
11:I2:980:ILE:CA	15:M3:618:GLN:HA	1.59	1.31
11:I2:1030:ARG:C	20:R3:173:LEU:O	1.65	1.31
1:A1:834:GLU:CB	6:D3:302:PRO:HG3	1.60	1.31
1:A1:1222:ALA:CB	2:A2:615:LEU:HD12	1.57	1.31
2:A2:1094:ILE:HG12	6:D2:759:GLN:CD	1.50	1.31
1:A3:1021:LEU:CD2	6:D3:816:VAL:HG13	1.58	1.31
1:A3:1054:SER:HA	6:D3:809:ALA:O	1.18	1.31
1:A3:1164:TYR:CD1	3:A6:642:ARG:O	1.81	1.31
2:A4:80:LYS:HD2	3:A6:387:THR:CG2	1.32	1.31
2:A4:803:GLU:O	3:A6:382:SER:CA	1.78	1.31
3:A6:1375:THR:O	28:Z4:830:LEU:CB	1.79	1.31
8:F1:1261:TYR:CD2	17:O2:259:ASP:OD2	1.82	1.31
11:I1:878:GLN:N	17:O1:252:VAL:H	1.28	1.31
11:I1:945:LEU:CD2	17:O1:259:ASP:H	1.41	1.31
11:I3:1267:LEU:HB2	26:X1:497:ARG:NH1	1.01	1.31
2:A2:1135:ARG:HD2	3:A5:147:LEU:CD2	1.58	1.31
2:A4:691:LYS:CB	3:A6:316:ARG:CZ	2.04	1.31
2:A4:724:LEU:CD2	3:A6:496:THR:HA	0.93	1.31
2:A4:806:PHE:CE2	3:A6:395:MET:CE	2.14	1.31
2:A4:898:LEU:HA	3:A6:176:LEU:O	1.25	1.31
2:A4:944:SER:O	4:B6:351:GLU:CG	1.76	1.31
2:A4:1019:ARG:HH22	6:D3:237:PRO:C	1.31	1.31
2:A4:1150:LEU:N	5:C4:730:HIS:O	1.61	1.31
11:I2:950:LEU:HD22	16:N3:406:HIS:NE2	1.42	1.31
11:I2:983:LEU:CD2	15:M3:617:THR:HB	1.44	1.31
2:A2:1160:GLN:OE1	3:A5:178:GLY:HA2	1.26	1.31
1:A3:1091:VAL:HG21	6:D3:808:ASN:N	1.42	1.31
1:A3:1227:PRO:HB2	3:A6:552:PHE:CE2	1.63	1.31
1:A3:1250:PRO:CG	3:A6:635:ARG:HB3	1.58	1.31
2:A4:768:SER:HA	3:A6:476:PHE:C	1.51	1.31
2:A4:772:SER:O	3:A6:489:LEU:HD11	1.27	1.31
2:A4:780:GLU:OE1	6:D3:679:ILE:HG23	1.31	1.31
2:A4:866:SER:OG	3:A6:136:GLU:HG2	1.31	1.31
3:A5:153:ILE:CD1	5:C2:739:MET:SD	2.16	1.31
3:A5:1374:ALA:CB	28:Z2:823:ALA:C	1.98	1.31
8:F1:1094:GLY:HA3	17:O2:237:PRO:CA	1.57	1.31
9:G1:255:LEU:H	15:M2:602:MET:CA	1.40	1.31
11:I1:1021:ILE:HG23	16:N1:406:HIS:CE1	1.66	1.31
11:I1:1659:VAL:O	11:I2:1663:LYS:NZ	1.60	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:948:ALA:N	17:O3:256:TYR:HD2	1.27	1.31
11:I2:1040:HIS:CE1	16:N3:437:VAL:HG11	1.63	1.31
11:I2:1055:GLU:O	17:O3:278:GLU:HA	1.21	1.31
2:A2:780:GLU:HG2	6:D1:678:GLY:C	1.50	1.30
1:A3:1311:ARG:NE	3:A6:715:GLU:OE2	1.60	1.30
1:A3:1392:ARG:HB2	3:A6:225:THR:OG1	1.26	1.30
2:A4:537:ALA:CA	3:A6:362:PHE:CZ	2.10	1.30
2:A4:670:SER:CB	3:A6:542:LEU:HD21	1.60	1.30
2:A4:986:THR:CG2	6:D3:504:LYS:HD3	1.56	1.30
2:A4:1019:ARG:NH2	6:D3:237:PRO:C	1.84	1.30
3:A5:1374:ALA:CB	28:Z2:824:PHE:N	1.93	1.30
6:D7:531:LEU:N	11:I3:181:GLN:CG	1.76	1.30
8:F1:1264:ARG:CZ	17:O2:263:GLN:C	1.98	1.30
11:I1:946:THR:HB	17:O1:260:LEU:CD2	1.50	1.30
11:I1:1604:ALA:HA	11:I2:1739:GLU:O	1.13	1.30
11:I2:836:VAL:HG12	17:O3:244:GLU:CB	0.94	1.30
23:U3:278:GLN:CG	25:W4:189:SER:CA	2.01	1.30
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ2	1.43	1.30
2:A2:980:ARG:NH2	6:D1:503:LEU:CB	1.87	1.30
2:A2:1149:THR:CA	5:C2:730:HIS:O	1.75	1.30
1:A3:1311:ARG:NE	3:A6:715:GLU:CD	1.84	1.30
2:A4:860:GLU:HG2	6:D3:606:LYS:CB	1.39	1.30
3:A5:147:LEU:O	5:C2:747:PRO:HB3	1.30	1.30
3:A5:999:SER:O	11:I5:64:LYS:CD	1.78	1.30
11:I1:945:LEU:CD1	17:O1:254:ARG:O	1.79	1.30
11:I1:1026:TYR:CE1	20:R1:175:GLN:OE1	1.84	1.30
11:I2:833:PHE:HE1	17:O3:245:GLU:CG	1.41	1.30
11:I3:1271:GLU:CB	26:X1:525:ILE:HG23	1.58	1.30
1:A1:1204:TRP:CE3	2:A2:734:LEU:HD13	1.62	1.30
1:A3:1270:SER:OG	3:A6:553:ASP:CB	1.78	1.30
2:A4:684:VAL:HG22	3:A6:405:PHE:CZ	1.63	1.30
3:A5:999:SER:OG	11:I5:63:PRO:HD2	1.17	1.30
3:A5:1414:PHE:CA	28:Z2:960:CYS:CB	1.83	1.30
9:G1:267:GLY:HA2	16:N2:414:ALA:C	1.51	1.30
11:I1:976:ARG:NH2	15:M1:622:VAL:HG11	1.47	1.30
11:I1:1104:LEU:C	16:N1:436:ALA:HB1	1.49	1.30
11:I2:874:LEU:N	17:O3:255:GLY:HA3	1.46	1.30
11:I2:928:LEU:CD1	20:R3:151:LYS:HE2	1.60	1.30
21:S1:671:ALA:N	21:S2:1146:ALA:N	1.79	1.30
2:A2:1125:LEU:HB2	3:A5:132:ASP:O	1.15	1.30
1:A3:1236:GLN:CB	3:A6:581:LYS:HB3	1.60	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:87:GLN:CG	3:A6:408:ALA:H	1.45	1.30
2:A4:691:LYS:HZ3	3:A6:331:SER:N	1.27	1.30
3:A5:1363:ASP:HB3	28:Z2:875:LEU:CB	1.56	1.30
3:A6:132:ASP:CG	6:D3:607:PRO:HD3	1.51	1.30
6:D7:530:ARG:C	11:I3:181:GLN:CB	1.87	1.30
11:I1:934:LEU:HA	15:M1:602:MET:CE	1.59	1.30
11:I1:952:LEU:C	16:N1:403:VAL:HG21	0.93	1.30
11:I1:990:GLU:HG2	17:O1:275:LEU:CD2	1.60	1.30
11:I1:1017:VAL:N	16:N1:412:ASN:N	1.68	1.30
11:I1:1049:LEU:CB	20:R1:146:LEU:HD13	1.61	1.30
11:I4:1279:THR:HG21	26:X3:520:GLU:CB	1.59	1.30
21:S1:671:ALA:H	21:S2:1146:ALA:CA	1.43	1.30
2:A2:980:ARG:CG	6:D1:473:GLU:HG2	1.59	1.30
1:A3:1241:ARG:NH2	3:A6:596:ARG:HB3	1.45	1.30
2:A4:89:LEU:HD13	3:A6:406:LEU:CD1	1.61	1.30
2:A4:689:LYS:HA	3:A6:381:LEU:CD2	1.61	1.30
2:A4:710:LEU:O	3:A6:490:PHE:HB3	1.15	1.30
2:A4:774:VAL:HG11	3:A6:467:LEU:N	0.98	1.30
2:A4:949:PHE:CB	4:B6:348:PRO:HD3	1.61	1.30
3:A5:1024:ASP:HB3	11:I5:98:ALA:CB	1.50	1.30
8:F1:1137:GLN:HB3	17:O2:248:SER:N	1.46	1.30
11:I2:890:TYR:N	17:O3:242:ARG:NE	1.80	1.30
11:I2:922:ASP:HB3	15:M3:589:GLY:O	1.20	1.30
11:I2:966:TRP:O	20:R3:150:ASN:HA	1.16	1.30
11:I2:1017:VAL:CG2	16:N3:411:GLN:HA	1.04	1.30
17:O3:147:ALA:HB1	18:P3:328:PRO:CB	1.61	1.30
1:A3:1224:PRO:HA	3:A6:496:THR:O	1.13	1.29
1:A3:1251:VAL:HA	3:A6:634:ASP:CB	1.62	1.29
2:A4:611:ILE:CG2	3:A6:508:LEU:CD1	1.80	1.29
2:A4:792:VAL:N	3:A6:187:THR:HB	1.47	1.29
2:A4:946:LYS:HA	4:B6:348:PRO:CG	1.55	1.29
2:A4:983:LEU:HD11	6:D3:553:PHE:O	1.21	1.29
11:I1:1021:ILE:HD11	16:N1:410:MET:CB	1.62	1.29
11:I3:1275:SER:OG	26:X1:522:MET:HG2	1.13	1.29
11:I4:816:ASP:CG	26:X3:497:ARG:HH11	1.36	1.29
17:O3:155:VAL:CG2	18:P3:321:ILE:HG21	1.59	1.29
2:A2:986:THR:OG1	6:D1:497:PHE:CE1	1.75	1.29
1:A3:1084:ARG:O	6:D3:797:GLY:HA3	1.24	1.29
2:A4:550:VAL:HG22	3:A6:367:ASP:CB	1.62	1.29
2:A4:825:ARG:CB	3:A6:138:LEU:HD13	1.61	1.29
2:A4:876:ARG:CD	6:D3:565:MET:HG2	1.60	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:C	6:D3:501:LEU:HB2	1.53	1.29
3:A5:175:GLU:OE1	5:C2:733:LEU:HD11	1.16	1.29
11:I1:877:ILE:HG21	17:O1:253:LEU:CB	1.60	1.29
11:I1:895:ARG:HE	17:O1:233:THR:CG2	1.43	1.29
11:I1:930:LEU:CB	15:M1:597:LYS:O	1.80	1.29
11:I1:1017:VAL:N	16:N1:411:GLN:HG3	1.43	1.29
11:I1:1070:LEU:N	16:N1:429:GLU:CG	1.94	1.29
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HD12	1.47	1.29
11:I2:836:VAL:CG1	17:O3:244:GLU:HB3	1.14	1.29
11:I2:885:GLU:HA	16:N3:397:GLU:CG	1.61	1.29
11:I2:983:LEU:C	15:M3:612:PRO:O	1.69	1.29
17:O3:162:LYS:N	18:P3:315:GLU:OE1	1.65	1.29
1:A1:1221:ILE:HG23	2:A2:642:ARG:O	1.30	1.29
2:A2:965:LYS:HG3	6:D1:196:ILE:O	1.31	1.29
1:A3:1231:VAL:O	3:A6:579:PHE:HB3	1.32	1.29
1:A3:1234:GLN:O	3:A6:583:LEU:HD13	1.18	1.29
2:A4:615:LEU:CB	3:A6:509:LYS:O	1.80	1.29
2:A4:780:GLU:CG	6:D3:679:ILE:HG12	0.82	1.29
2:A4:895:PRO:CB	3:A6:179:TYR:HB2	1.62	1.29
3:A5:186:ILE:HB	5:C2:744:PHE:O	1.24	1.29
3:A5:1026:PRO:O	11:I5:68:ILE:N	1.65	1.29
11:I1:1114:VAL:N	16:N1:435:ALA:HB1	1.48	1.29
11:I2:850:ILE:CG2	15:M3:598:GLU:OE2	1.80	1.29
11:I3:1276:GLN:N	26:X1:522:MET:HB3	1.44	1.29
2:A2:780:GLU:H	6:D1:678:GLY:N	1.30	1.29
2:A2:870:HIS:NE2	6:D1:551:PHE:HB3	1.42	1.29
2:A2:1154:PHE:CZ	4:B5:342:ARG:HD2	1.68	1.29
1:A3:1158:ALA:O	3:A6:647:GLU:HB3	1.32	1.29
3:A6:520:GLU:HB2	6:D3:635:ALA:CB	1.62	1.29
11:I1:976:ARG:HB3	20:R1:149:ARG:CB	1.61	1.29
11:I1:1024:PHE:HB2	16:N1:406:HIS:CB	1.61	1.29
11:I2:900:ARG:CB	17:O3:232:LYS:CD	2.10	1.29
11:I2:985:ARG:N	15:M3:613:ASP:CA	1.75	1.29
11:I2:1038:ILE:HG13	20:R3:167:GLN:OE1	1.30	1.29
17:O1:103:VAL:HG13	18:P1:326:GLN:NE2	1.45	1.29
2:A2:866:SER:CB	6:D1:602:THR:O	1.79	1.29
1:A3:1189:LEU:CD2	3:A6:614:ALA:CB	2.09	1.29
1:A3:1249:PHE:CE1	3:A6:584:GLY:HA3	1.55	1.29
2:A4:537:ALA:HB2	3:A6:367:ASP:O	1.13	1.29
2:A4:678:LEU:CD2	3:A6:103:ARG:O	1.80	1.29
2:A4:789:LEU:CD2	3:A6:146:LYS:HB2	1.45	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:826:ASN:HD21	3:A6:565:THR:CG2	1.42	1.29
2:A4:876:ARG:HG2	6:D3:563:GLU:O	1.11	1.29
2:A4:908:LEU:CA	6:D3:552:TYR:CE1	2.09	1.29
8:F1:1137:GLN:CA	17:O2:248:SER:CB	2.09	1.29
8:F1:1264:ARG:O	17:O2:265:ASN:HB3	1.32	1.29
11:I1:1054:ILE:C	17:O1:278:GLU:O	1.71	1.29
11:I1:1642:LEU:HD13	11:I2:1669:ARG:NH1	1.46	1.29
11:I2:921:GLU:O	15:M3:593:ALA:HA	1.26	1.29
11:I2:957:SER:HA	20:R3:167:GLN:O	1.24	1.29
11:I2:980:ILE:O	15:M3:618:GLN:HG3	1.22	1.29
11:I2:990:GLU:O	17:O3:271:GLU:C	1.70	1.29
11:I2:1028:CYS:C	20:R3:173:LEU:H	1.16	1.29
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB3	1.50	1.29
1:A1:870:HIS:CB	6:D3:280:GLN:N	1.96	1.28
2:A4:623:SER:OG	3:A6:453:SER:HB3	1.30	1.28
2:A4:710:LEU:C	3:A6:462:LEU:CD2	2.00	1.28
2:A4:805:LEU:CD1	3:A6:469:PHE:CE2	2.11	1.28
2:A4:893:LEU:CG	3:A6:175:GLU:HG3	1.62	1.28
2:A4:1055:ARG:HD3	6:D4:762:ARG:CA	1.61	1.28
11:I1:879:VAL:HG13	17:O1:244:GLU:O	1.11	1.28
11:I1:881:ILE:HD11	17:O1:253:LEU:CD1	1.61	1.28
2:A2:864:ARG:O	6:D1:608:ILE:HG12	1.19	1.28
2:A2:1142:PHE:CE2	3:A5:567:VAL:CB	2.01	1.28
1:A3:1226:LEU:HD22	3:A6:550:VAL:N	0.97	1.28
1:A3:1227:PRO:CG	3:A6:682:ARG:HD3	1.64	1.28
2:A4:767:ILE:CA	3:A6:469:PHE:O	1.79	1.28
2:A4:770:GLY:O	3:A6:469:PHE:CD2	1.83	1.28
2:A4:986:THR:HB	6:D3:504:LYS:CD	1.61	1.28
3:A5:164:LEU:CB	5:C2:742:ASP:OD2	1.80	1.28
3:A5:1101:GLN:NE2	11:I5:33:THR:HG23	0.98	1.28
11:I1:959:SER:CA	16:N1:395:GLU:HB3	1.64	1.28
11:I1:976:ARG:NH1	15:M1:622:VAL:HG13	0.98	1.28
11:I1:992:ILE:HD13	15:M1:604:ASN:O	1.29	1.28
11:I1:1056:PRO:CA	17:O1:278:GLU:CG	2.07	1.28
11:I2:967:SER:CB	15:M3:625:GLY:CA	2.10	1.28
11:I2:976:ARG:HH12	15:M3:622:VAL:CG2	1.46	1.28
11:I2:1039:ALA:CB	20:R3:170:LEU:CD1	2.10	1.28
11:I2:1052:LEU:HB3	17:O3:283:ALA:CB	1.35	1.28
2:A2:975:GLU:N	6:D1:499:LEU:HG	1.41	1.28
1:A3:1277:TRP:C	3:A6:625:LEU:CD2	2.00	1.28
1:A3:1278:PRO:CB	3:A6:624:ASP:CB	2.04	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:778:PHE:N	3:A6:487:ASP:OD2	1.65	1.28
2:A4:780:GLU:HA	3:A6:522:GLY:O	1.13	1.28
2:A4:895:PRO:HB2	3:A6:179:TYR:CB	1.62	1.28
11:I1:924:ILE:HD13	15:M1:595:MET:CB	1.62	1.28
11:I2:949:CYS:SG	15:M3:602:MET:CE	2.22	1.28
11:I2:966:TRP:O	20:R3:150:ASN:CA	1.82	1.28
11:I2:1039:ALA:HB1	20:R3:170:LEU:CD1	1.63	1.28
11:I2:1048:GLU:O	17:O3:287:LEU:CB	1.82	1.28
1:A3:1163:TYR:CD1	3:A6:648:TYR:CB	1.81	1.28
1:A3:1201:ARG:HG2	2:A4:728:LYS:O	1.23	1.28
1:A3:1223:GLU:CG	2:A4:734:LEU:HD11	1.62	1.28
1:A3:1237:LEU:CD2	3:A6:119:TRP:CZ2	2.15	1.28
1:A3:1257:VAL:CB	3:A6:638:GLU:OE2	1.78	1.28
1:A3:1261:TYR:CD2	3:A6:621:GLN:CG	1.92	1.28
2:A4:720:LEU:HD23	3:A6:495:ASP:N	1.49	1.28
2:A4:724:LEU:HB3	3:A6:496:THR:CG2	1.37	1.28
2:A4:727:ASN:ND2	3:A6:497:GLY:HA3	1.49	1.28
2:A4:727:ASN:CB	3:A6:497:GLY:HA2	1.63	1.28
2:A4:804:GLN:NE2	3:A6:317:GLY:O	1.66	1.28
2:A4:868:GLN:CG	6:D3:608:ILE:CD1	2.09	1.28
2:A4:891:GLY:O	3:A6:232:LEU:N	1.65	1.28
2:A4:898:LEU:CD1	4:B6:342:ARG:HB2	1.60	1.28
11:I1:919:ALA:CB	16:N1:389:PHE:CA	1.98	1.28
11:I1:980:ILE:CB	15:M1:618:GLN:O	1.80	1.28
11:I1:986:ASN:C	15:M1:613:ASP:H	1.35	1.28
11:I1:1039:ALA:N	20:R1:169:GLY:HA3	1.38	1.28
11:I2:1109:LEU:CG	17:O3:290:TYR:CE2	2.15	1.28
21:S1:668:ILE:CA	21:S2:1146:ALA:CB	2.07	1.28
1:A1:1197:ALA:CB	2:A2:728:LYS:NZ	1.95	1.28
2:A2:1125:LEU:CB	3:A5:132:ASP:O	1.80	1.28
1:A3:1261:TYR:CZ	3:A6:616:ALA:HB1	1.68	1.28
2:A4:691:LYS:CD	3:A6:316:ARG:CD	1.75	1.28
2:A4:691:LYS:NZ	3:A6:330:LEU:C	1.87	1.28
2:A4:718:GLU:HB3	3:A6:121:PRO:CG	1.63	1.28
2:A4:756:ALA:HA	3:A6:387:THR:O	1.12	1.28
2:A4:975:GLU:CB	6:D3:501:LEU:CD1	2.06	1.28
3:A5:1091:VAL:CG1	11:I5:36:GLU:OE1	1.80	1.28
3:A6:1415:PHE:HE1	28:Z4:996:LYS:CB	1.37	1.28
11:I1:947:LEU:CA	16:N1:407:ALA:HB1	1.61	1.28
11:I1:954:GLU:HB3	16:N1:403:VAL:N	0.95	1.28
11:I1:956:ILE:CG2	20:R1:166:LEU:CB	2.09	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1611:PHE:C	11:I2:1673:VAL:N	1.87	1.28
11:I2:980:ILE:HD11	20:R3:147:LEU:CA	1.63	1.28
11:I2:1049:LEU:O	17:O3:288:GLU:CA	1.80	1.28
1:A1:831:ALA:O	6:D3:298:ASN:HB2	1.14	1.27
1:A1:870:HIS:CG	6:D3:279:HIS:ND1	2.00	1.27
1:A3:1240:HIS:CE1	3:A6:118:SER:CA	2.17	1.27
1:A3:1249:PHE:HD2	3:A6:633:MET:CG	1.47	1.27
1:A3:1261:TYR:CE2	3:A6:621:GLN:HG3	1.69	1.27
2:A4:93:ASP:CA	3:A6:361:ASP:HB3	1.64	1.27
2:A4:689:LYS:CG	3:A6:396:ALA:HB2	1.48	1.27
2:A4:714:GLN:O	3:A6:492:SER:CB	1.79	1.27
8:F1:1202:TYR:O	17:O2:252:VAL:CA	1.82	1.27
11:I1:837:MET:CE	17:O1:242:ARG:N	1.96	1.27
11:I1:915:ALA:HB3	15:M1:582:THR:O	1.30	1.27
11:I1:945:LEU:CD2	17:O1:259:ASP:N	1.97	1.27
11:I2:939:ASN:HB3	17:O3:265:ASN:CG	1.19	1.27
1:A1:870:HIS:O	6:D3:279:HIS:HB3	1.25	1.27
1:A1:873:PRO:HB2	6:D3:218:LYS:NZ	1.46	1.27
2:A2:1156:ASP:HA	3:A5:166:LEU:O	1.32	1.27
1:A3:1161:ALA:C	3:A6:647:GLU:O	1.71	1.27
1:A3:1388:ALA:CB	3:A6:224:PRO:O	1.70	1.27
2:A4:678:LEU:HD22	3:A6:431:PHE:CD2	1.68	1.27
2:A4:727:ASN:HD22	3:A6:497:GLY:CA	1.48	1.27
2:A4:760:LEU:CD2	3:A6:98:LEU:HB2	1.62	1.27
2:A4:918:CYS:SG	4:B6:342:ARG:CG	2.22	1.27
3:A6:1402:ASP:HB3	26:X4:743:PHE:O	1.15	1.27
8:F1:1137:GLN:HG2	17:O2:248:SER:C	1.54	1.27
8:F1:1265:GLN:O	17:O2:265:ASN:ND2	1.66	1.27
11:I1:877:ILE:CG2	17:O1:253:LEU:HB2	1.62	1.27
11:I1:916:ALA:N	15:M1:586:ASP:N	1.80	1.27
11:I1:922:ASP:O	15:M1:593:ALA:HB2	1.15	1.27
11:I1:956:ILE:CA	20:R1:166:LEU:HD22	1.61	1.27
11:I1:1020:ALA:HA	16:N1:405:ALA:C	1.16	1.27
11:I3:1267:LEU:CG	26:X1:497:ARG:NH1	1.96	1.27
11:I3:1277:LEU:CD2	26:X1:513:PHE:CB	2.13	1.27
11:I4:812:ASN:O	26:X3:497:ARG:HB3	1.13	1.27
15:M1:507:GLN:OE1	18:P1:318:PRO:CG	1.82	1.27
1:A1:1399:ARG:CG	2:A2:884:ARG:HG2	1.62	1.27
2:A2:1153:LEU:HG	3:A5:173:ASN:C	1.50	1.27
1:A3:1250:PRO:O	3:A6:635:ARG:N	1.64	1.27
2:A4:577:ASP:HA	3:A6:453:SER:CB	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:701:ILE:CG1	3:A6:466:ALA:N	1.94	1.27
2:A4:777:LEU:HG	3:A6:526:ILE:CA	1.56	1.27
2:A4:876:ARG:CG	6:D3:558:LYS:HA	1.61	1.27
8:F1:1267:ARG:HG2	17:O2:265:ASN:O	1.12	1.27
11:I1:966:TRP:CE2	20:R1:165:SER:O	1.87	1.27
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG12	1.42	1.27
11:I1:1114:VAL:HG22	16:N1:432:TYR:O	1.30	1.27
11:I2:882:LYS:CB	17:O3:245:GLU:O	1.82	1.27
11:I2:894:VAL:HG11	17:O3:237:PRO:C	1.36	1.27
11:I2:1106:LYS:HB2	16:N3:440:GLU:OE2	1.13	1.27
23:U3:278:GLN:NE2	25:W4:188:ASN:C	1.86	1.27
2:A2:1139:ILE:O	3:A5:130:ILE:O	1.52	1.27
1:A3:1240:HIS:HE1	3:A6:118:SER:CA	1.45	1.27
2:A4:536:ALA:H	3:A6:369:SER:N	1.32	1.27
2:A4:643:ALA:N	3:A6:501:VAL:HG12	1.48	1.27
2:A4:879:LEU:N	6:D3:567:LEU:CD1	1.96	1.27
6:D7:529:VAL:N	11:I3:181:GLN:NE2	1.75	1.27
9:G1:262:SER:O	16:N2:411:GLN:CD	1.70	1.27
11:I1:1052:LEU:O	17:O1:286:ILE:HB	1.20	1.27
11:I2:947:LEU:HD22	17:O3:256:TYR:OH	1.20	1.27
11:I2:951:LYS:HD2	16:N3:403:VAL:N	1.47	1.27
11:I2:1031:ALA:CB	20:R3:168:LEU:HD22	1.64	1.27
1:A3:1124:ARG:H	3:A6:599:ARG:NH2	1.29	1.27
1:A3:1245:ASP:HB2	3:A6:588:SER:OG	1.14	1.27
2:A4:693:VAL:N	3:A6:316:ARG:HH12	1.08	1.27
2:A4:702:SER:O	3:A6:399:ASP:CB	1.76	1.27
2:A4:714:GLN:O	3:A6:492:SER:HB3	1.31	1.27
2:A4:823:VAL:HG11	3:A6:167:TRP:CZ2	1.70	1.27
11:I1:922:ASP:C	15:M1:589:GLY:O	1.70	1.27
11:I1:947:LEU:HD13	17:O1:256:TYR:OH	1.31	1.27
11:I1:950:LEU:HD22	16:N1:406:HIS:CG	1.70	1.27
11:I1:966:TRP:CD2	20:R1:165:SER:O	1.86	1.27
11:I2:840:LEU:HD22	17:O3:247:TRP:CG	1.67	1.27
11:I2:966:TRP:HZ3	20:R3:167:GLN:CD	1.38	1.27
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD1	1.65	1.27
17:O3:154:ARG:CD	18:P3:324:LEU:HD13	1.64	1.27
1:A1:868:GLN:CA	6:D3:280:GLN:HG2	1.47	1.26
2:A2:869:ALA:HB2	6:D1:574:VAL:CG2	1.63	1.26
1:A3:1116:HIS:CG	3:A6:596:ARG:NH2	1.82	1.26
1:A3:1188:ASN:C	3:A6:645:PHE:HB2	1.51	1.26
2:A4:672:ARG:HG2	3:A6:96:PRO:CB	1.65	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:713:ILE:N	3:A6:462:LEU:HD11	1.48	1.26
2:A4:946:LYS:CB	4:B6:351:GLU:N	1.97	1.26
11:I1:880:MET:CE	17:O1:247:TRP:CE3	2.18	1.26
11:I1:942:HIS:H	17:O1:259:ASP:C	1.38	1.26
11:I2:1064:LYS:O	17:O3:274:GLY:HA2	1.13	1.26
11:I4:819:MET:HB2	26:X3:501:LYS:NZ	1.48	1.26
18:P2:319:VAL:HG23	18:P3:278:ASN:CG	1.52	1.26
2:A2:970:PHE:CG	6:D1:498:GLU:OE1	1.88	1.26
1:A3:1099:GLN:HG2	11:I2:1414:CYS:O	1.17	1.26
2:A4:540:GLN:O	3:A6:363:ALA:CB	1.82	1.26
2:A4:616:ALA:CB	3:A6:109:ASP:CG	2.01	1.26
2:A4:796:GLN:N	3:A6:249:SER:HB3	1.44	1.26
2:A4:978:ASP:CB	6:D3:476:VAL:CG2	2.12	1.26
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CA	1.98	1.26
9:G1:252:LEU:O	15:M2:602:MET:HG2	1.29	1.26
11:I1:1037:THR:CB	15:M1:624:ASN:HD21	1.47	1.26
11:I2:980:ILE:CD1	15:M3:622:VAL:CG2	2.12	1.26
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG21	1.10	1.26
11:I4:819:MET:HE3	27:Y3:178:PHE:CZ	1.69	1.26
23:U3:276:VAL:C	25:W4:192:GLN:NE2	1.86	1.26
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HG13	1.33	1.26
2:A2:780:GLU:HB2	6:D1:677:GLN:O	1.28	1.26
2:A2:878:LEU:HD12	6:D1:608:ILE:CG2	1.57	1.26
1:A3:1224:PRO:HB2	2:A4:727:ASN:O	1.09	1.26
2:A4:552:PHE:CZ	3:A6:109:ASP:OD2	1.88	1.26
3:A5:1399:ARG:NH1	28:Z2:909:LEU:CB	1.98	1.26
6:D3:743:HIS:CD2	11:I2:1528:ARG:HD2	1.69	1.26
11:I1:880:MET:HE1	17:O1:247:TRP:CZ3	1.68	1.26
11:I1:882:LYS:N	17:O1:249:ARG:CB	1.95	1.26
11:I1:976:ARG:N	20:R1:149:ARG:CG	1.98	1.26
11:I2:840:LEU:HD22	17:O3:247:TRP:CD1	1.69	1.26
11:I2:880:MET:O	17:O3:246:LEU:HD23	1.33	1.26
11:I2:885:GLU:CA	16:N3:397:GLU:CG	2.13	1.26
11:I2:1031:ALA:H	20:R3:173:LEU:CA	1.45	1.26
11:I2:1054:ILE:N	17:O3:282:LYS:N	1.65	1.26
11:I2:1100:ILE:HG23	16:N3:433:GLU:CD	1.53	1.26
11:I3:1267:LEU:HB2	26:X1:497:ARG:CZ	1.59	1.26
21:S3:678:GLU:CB	21:S4:1141:GLU:CA	2.13	1.26
2:A2:870:HIS:NE2	6:D1:566:PHE:CD1	2.03	1.26
1:A3:1123:GLU:CG	3:A6:599:ARG:HD3	1.65	1.26
1:A3:1163:TYR:CD1	3:A6:648:TYR:HB3	1.56	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1194:HIS:ND1	3:A6:552:PHE:CE2	2.04	1.26
1:A3:1223:GLU:O	3:A6:496:THR:HA	1.11	1.26
1:A3:1237:LEU:HB3	3:A6:597:GLU:CG	1.64	1.26
1:A3:1277:TRP:HB3	3:A6:556:PRO:CD	1.65	1.26
2:A4:682:ARG:CB	3:A6:431:PHE:CZ	1.86	1.26
2:A4:921:VAL:HG22	3:A6:175:GLU:OE2	1.27	1.26
3:A5:153:ILE:CD1	5:C2:739:MET:CE	2.08	1.26
8:F1:1093:LEU:HD11	17:O2:240:GLY:C	1.56	1.26
8:F1:1264:ARG:NH1	17:O2:263:GLN:O	1.69	1.26
11:I1:946:THR:CA	17:O1:257:ALA:HA	1.65	1.26
11:I1:956:ILE:HG23	20:R1:166:LEU:CB	1.62	1.26
11:I2:977:ASN:CB	20:R3:150:ASN:CB	1.88	1.26
11:I3:1275:SER:C	26:X1:522:MET:CB	1.97	1.26
2:A2:977:VAL:CA	6:D1:496:LEU:HD12	1.53	1.26
1:A3:1237:LEU:CD2	3:A6:119:TRP:HE1	1.40	1.26
1:A3:1261:TYR:HD1	3:A6:621:GLN:CA	1.48	1.26
2:A4:769:GLU:O	3:A6:528:ILE:HG21	1.33	1.26
3:A5:1312:ARG:HD3	28:Z2:832:PHE:CB	1.65	1.26
11:I1:846:ILE:CD1	15:M1:594:LYS:HB2	1.59	1.26
11:I1:947:LEU:CB	17:O1:256:TYR:CE2	2.07	1.26
11:I1:947:LEU:HB2	17:O1:256:TYR:CE2	1.51	1.26
11:I1:955:LYS:CE	16:N1:397:GLU:HA	1.66	1.26
11:I2:957:SER:HA	20:R3:167:GLN:C	1.54	1.26
11:I2:957:SER:CA	20:R3:167:GLN:O	1.82	1.26
11:I2:1106:LYS:O	16:N3:440:GLU:CA	1.78	1.26
21:S1:658:SER:O	21:S2:1105:LEU:HD11	1.26	1.26
1:A3:1224:PRO:HB3	3:A6:500:LYS:CB	1.61	1.25
1:A3:1255:LEU:N	3:A6:634:ASP:HB3	1.49	1.25
1:A3:1279:ILE:CA	3:A6:625:LEU:CA	1.82	1.25
2:A4:542:LEU:CD2	3:A6:364:HIS:HD1	1.32	1.25
2:A4:701:ILE:CD1	3:A6:466:ALA:N	1.97	1.25
2:A4:767:ILE:CA	3:A6:470:ARG:HA	1.51	1.25
2:A4:818:LEU:O	3:A6:147:LEU:CB	1.84	1.25
2:A4:889:VAL:CG1	3:A6:171:HIS:CG	2.18	1.25
3:A5:1027:HIS:CG	11:I5:65:LYS:C	2.03	1.25
3:A5:1388:ALA:O	28:Z2:867:LYS:CA	1.70	1.25
9:G1:253:SER:OG	15:M2:601:ASP:CB	1.83	1.25
9:G1:253:SER:OG	15:M2:601:ASP:HB3	1.33	1.25
11:I1:833:PHE:HE2	17:O1:238:ALA:C	1.36	1.25
11:I1:882:LYS:CB	17:O1:245:GLU:HB3	1.63	1.25
11:I1:923:GLY:CA	15:M1:592:LEU:N	1.98	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:946:THR:CB	17:O1:260:LEU:HD23	1.57	1.25
11:I1:1054:ILE:O	17:O1:278:GLU:O	1.54	1.25
11:I2:882:LYS:HB2	17:O3:245:GLU:O	1.18	1.25
11:I2:1015:TYR:HB3	16:N3:412:ASN:OD1	1.19	1.25
17:O1:104:ASP:OD2	18:P1:322:LYS:HE3	1.11	1.25
17:O4:107:THR:CG2	18:P4:321:ILE:HD12	1.64	1.25
21:S1:668:ILE:C	21:S2:1146:ALA:HB1	1.55	1.25
21:S1:671:ALA:H	21:S2:1146:ALA:N	1.34	1.25
21:S1:678:GLU:HA	21:S2:1127:GLN:CG	1.40	1.25
2:A2:986:THR:CG2	6:D1:504:LYS:CD	1.96	1.25
1:A3:1221:ILE:HD13	2:A4:641:ALA:O	1.12	1.25
2:A4:543:GLY:O	3:A6:362:PHE:O	1.53	1.25
2:A4:720:LEU:N	3:A6:493:ALA:O	1.69	1.25
2:A4:819:VAL:CG1	3:A6:149:LEU:HG	1.66	1.25
3:A5:1024:ASP:HB2	11:I5:94:GLU:O	1.28	1.25
3:A6:1368:GLN:OE1	28:Z4:878:HIS:CB	1.84	1.25
3:A6:1403:MSE:HG3	26:X4:742:ALA:O	1.15	1.25
9:G1:270:ARG:HB3	16:N2:414:ALA:O	1.08	1.25
11:I1:896:PRO:N	17:O1:233:THR:HA	1.51	1.25
11:I2:1035:GLN:O	15:M3:623:LEU:HD23	1.32	1.25
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD11	1.66	1.25
1:A1:832:ASN:OD1	6:D3:298:ASN:CA	1.83	1.25
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HG13	0.92	1.25
2:A2:870:HIS:NE2	6:D1:566:PHE:HD1	1.33	1.25
2:A2:1128:ASP:C	3:A5:140:ALA:CA	1.94	1.25
1:A3:1332:ARG:O	6:D3:637:LYS:HD3	1.21	1.25
2:A4:678:LEU:O	3:A6:431:PHE:CE1	1.88	1.25
2:A4:692:VAL:CG1	3:A6:466:ALA:O	1.84	1.25
2:A4:757:LEU:CB	3:A6:544:PHE:N	1.86	1.25
2:A4:793:SER:HB3	3:A6:146:LYS:CE	1.65	1.25
3:A5:1365:VAL:C	28:Z2:841:ALA:HB1	1.56	1.25
3:A6:136:GLU:OE2	6:D3:603:SER:N	1.67	1.25
11:I1:849:LEU:CD1	17:O1:247:TRP:CE3	2.19	1.25
11:I2:887:GLN:C	16:N3:393:ILE:HG21	1.18	1.25
11:I2:1048:GLU:O	17:O3:287:LEU:HB3	1.14	1.25
11:I3:1275:SER:C	26:X1:522:MET:HB3	1.10	1.25
1:A3:1223:GLU:CB	2:A4:676:LEU:CD1	2.08	1.25
1:A3:1267:GLN:CD	3:A6:552:PHE:N	1.80	1.25
2:A4:973:GLU:O	6:D3:499:LEU:HD21	1.23	1.25
11:I1:987:GLY:H	15:M1:613:ASP:CA	1.47	1.25
11:I1:1051:LYS:CE	17:O1:289:ASP:H	1.47	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:967:SER:OG	15:M3:625:GLY:HA2	1.19	1.25
21:S1:677:TYR:O	21:S2:1127:GLN:HB3	1.30	1.25
23:U3:278:GLN:CD	25:W4:189:SER:HA	0.88	1.25
2:A2:876:ARG:HD2	6:D1:558:LYS:CB	1.65	1.25
2:A2:1151:THR:O	3:A5:175:GLU:HG2	1.31	1.25
1:A3:1163:TYR:HD1	3:A6:648:TYR:CA	1.40	1.25
1:A3:1170:ILE:HA	3:A6:591:ASP:N	1.32	1.25
1:A3:1224:PRO:HB2	3:A6:548:LEU:CD1	1.65	1.25
2:A4:86:ASN:HB2	3:A6:393:HIS:CB	1.66	1.25
2:A4:780:GLU:CA	6:D3:679:ILE:CD1	2.04	1.25
2:A4:824:ASN:O	3:A6:138:LEU:HD12	1.22	1.25
2:A4:861:GLN:CA	6:D3:607:PRO:HD3	1.67	1.25
3:A5:998:SER:HB3	11:I5:62:GLU:OE1	1.31	1.25
3:A6:444:ARG:N	6:D3:737:PHE:HE2	1.33	1.25
3:A6:1391:ARG:HB2	28:Z4:908:LEU:O	1.12	1.25
8:F1:1205:TRP:CG	17:O2:254:ARG:CD	2.19	1.25
9:G1:254:ASN:O	15:M2:606:LEU:CB	1.84	1.25
11:I1:957:SER:O	20:R1:168:LEU:HD21	1.24	1.25
11:I1:976:ARG:CZ	15:M1:622:VAL:CG1	2.13	1.25
11:I1:977:ASN:OD1	15:M1:621:ARG:HB3	1.35	1.25
11:I1:1669:ARG:N	11:I2:1664:PHE:CE2	1.97	1.25
11:I1:1669:ARG:CD	11:I2:1605:LEU:HD13	1.67	1.25
11:I2:900:ARG:N	17:O3:232:LYS:HG2	0.92	1.25
11:I2:1029:LEU:N	20:R3:173:LEU:H	1.34	1.25
11:I2:1034:ASP:CB	15:M3:630:LEU:HD13	1.65	1.25
11:I2:1053:GLY:C	17:O3:279:ILE:O	1.74	1.25
2:A2:1149:THR:C	5:C2:730:HIS:O	1.76	1.25
1:A3:1236:GLN:HB3	3:A6:118:SER:CB	1.67	1.25
1:A3:1278:PRO:CG	3:A6:624:ASP:CB	2.10	1.25
2:A4:92:ASP:OD1	3:A6:105:GLY:N	1.66	1.25
2:A4:675:ALA:CB	3:A6:508:LEU:HB3	1.67	1.25
2:A4:872:ALA:CB	6:D3:565:MET:HE3	1.61	1.25
2:A4:886:PHE:CA	3:A6:175:GLU:N	1.98	1.25
11:I2:1024:PHE:CB	16:N3:406:HIS:CG	2.18	1.25
21:S1:680:PRO:O	21:S2:1127:GLN:CD	1.75	1.25
1:A3:1099:GLN:NE2	11:I2:1415:SER:C	1.90	1.24
1:A3:1230:TYR:CE1	3:A6:610:THR:HA	1.02	1.24
1:A3:1391:ARG:O	3:A6:227:SER:OG	1.52	1.24
2:A4:90:GLN:CD	3:A6:427:MET:HA	1.21	1.24
2:A4:533:ALA:CB	3:A6:370:PRO:HG3	1.64	1.24
2:A4:679:TYR:CE2	3:A6:511:PHE:C	2.06	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:736:PRO:CA	3:A6:685:ARG:NH1	1.82	1.24
2:A4:761:GLN:HB2	3:A6:535:PHE:CE1	1.70	1.24
2:A4:805:LEU:CD1	3:A6:469:PHE:CD2	2.19	1.24
3:A5:1369:ILE:HG23	28:Z2:827:GLN:O	1.34	1.24
9:G1:252:LEU:O	15:M2:602:MET:CG	1.84	1.24
11:I1:837:MET:CE	17:O1:242:ARG:HB2	1.67	1.24
11:I1:924:ILE:O	15:M1:597:LYS:N	1.68	1.24
11:I1:1028:CYS:SG	20:R1:169:GLY:O	1.96	1.24
11:I1:1066:LEU:H	16:N1:430:ARG:CG	1.47	1.24
11:I1:1739:GLU:O	11:I2:1604:ALA:HA	1.07	1.24
11:I2:877:ILE:HG13	17:O3:254:ARG:CG	1.64	1.24
11:I2:880:MET:C	17:O3:246:LEU:O	1.74	1.24
11:I2:942:HIS:CB	17:O3:259:ASP:O	1.85	1.24
11:I2:983:LEU:CA	15:M3:612:PRO:O	1.85	1.24
11:I2:1048:GLU:HB3	17:O3:284:LYS:O	1.33	1.24
11:I5:1279:THR:HG23	26:X2:520:GLU:CB	1.66	1.24
21:S1:597:ILE:CA	21:S2:1120:PRO:HD3	1.64	1.24
2:A4:805:LEU:CD1	3:A6:469:PHE:CG	2.11	1.24
2:A4:865:ALA:O	6:D3:598:ILE:HD11	1.08	1.24
2:A4:908:LEU:HD23	6:D3:601:PHE:CB	1.66	1.24
2:A4:983:LEU:HD22	6:D3:497:PHE:CE1	1.71	1.24
2:A4:1149:THR:N	5:C4:730:HIS:N	1.85	1.24
3:A6:444:ARG:O	6:D3:719:LEU:CA	1.86	1.24
8:F1:1265:GLN:C	17:O2:265:ASN:HB2	1.57	1.24
11:I1:987:GLY:CA	15:M1:611:LYS:HG2	1.66	1.24
11:I2:1042:LEU:O	16:N3:430:ARG:CZ	1.86	1.24
11:I3:1267:LEU:HD23	26:X1:497:ARG:NH2	1.45	1.24
2:A2:1159:ASP:HB3	3:A5:176:LEU:O	1.08	1.24
1:A3:1166:LEU:HA	3:A6:594:LEU:CB	1.54	1.24
1:A3:1233:GLN:HB3	3:A6:601:PHE:CE1	1.72	1.24
1:A3:1236:GLN:CB	3:A6:118:SER:HB2	1.66	1.24
1:A3:1248:ILE:HD13	3:A6:640:LEU:CD1	1.66	1.24
1:A3:1324:ASP:OD2	3:A6:126:ARG:HD2	1.37	1.24
2:A4:537:ALA:N	3:A6:368:SER:CA	1.80	1.24
2:A4:710:LEU:HD23	3:A6:479:VAL:C	1.58	1.24
2:A4:712:THR:N	3:A6:462:LEU:HD21	1.52	1.24
2:A4:761:GLN:OE1	3:A6:547:GLU:CG	1.86	1.24
2:A4:778:PHE:C	3:A6:487:ASP:OD1	1.74	1.24
2:A4:818:LEU:O	3:A6:147:LEU:HB2	1.14	1.24
2:A4:954:ILE:N	4:B6:345:LYS:HA	1.51	1.24
2:A4:983:LEU:CD1	6:D3:553:PHE:C	2.06	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:177:ILE:HD13	5:C2:736:ASN:O	1.37	1.24
3:A6:132:ASP:OD2	6:D3:607:PRO:N	1.66	1.24
3:A6:137:HIS:N	6:D3:603:SER:HB2	1.48	1.24
11:I1:890:TYR:CE1	17:O1:240:GLY:N	1.91	1.24
11:I1:923:GLY:N	15:M1:589:GLY:O	1.69	1.24
11:I1:923:GLY:HA3	15:M1:591:ASP:C	1.56	1.24
11:I1:924:ILE:CG1	15:M1:596:ILE:HG13	1.67	1.24
11:I1:1021:ILE:CD1	16:N1:410:MET:CB	2.15	1.24
11:I1:1037:THR:CB	15:M1:624:ASN:ND2	2.01	1.24
11:I2:945:LEU:HD13	17:O3:255:GLY:O	1.23	1.24
11:I2:1029:LEU:CD1	16:N3:433:GLU:CG	2.16	1.24
11:I2:1055:GLU:O	17:O3:278:GLU:CA	1.84	1.24
2:A2:1137:ALA:HB1	3:A5:564:ASN:CB	1.64	1.24
1:A3:1235:ILE:O	3:A6:581:LYS:C	1.74	1.24
2:A4:602:ILE:HG12	3:A6:506:SER:OG	1.38	1.24
2:A4:689:LYS:CD	3:A6:336:ILE:CD1	1.82	1.24
2:A4:729:SER:CA	3:A6:678:LEU:HD21	1.68	1.24
2:A4:767:ILE:HA	3:A6:469:PHE:C	1.54	1.24
2:A4:769:GLU:O	3:A6:528:ILE:HD13	1.14	1.24
2:A4:778:PHE:N	3:A6:481:ARG:HH11	1.26	1.24
2:A4:780:GLU:CD	3:A6:523:ASN:HA	1.44	1.24
2:A4:789:LEU:N	3:A6:144:PHE:CD1	1.75	1.24
3:A5:1029:ILE:HG23	11:I5:70:GLU:N	0.93	1.24
3:A5:1093:THR:CG2	11:I5:37:GLU:OE2	1.73	1.24
3:A5:1365:VAL:CA	28:Z2:841:ALA:HB1	1.56	1.24
11:I1:841:PHE:CE2	17:O1:243:LEU:CD1	2.19	1.24
11:I1:939:ASN:O	17:O1:265:ASN:HB2	1.27	1.24
11:I1:992:ILE:N	15:M1:608:LYS:CG	1.88	1.24
11:I2:950:LEU:CD2	16:N3:410:MET:CE	2.14	1.24
1:A1:874:VAL:CG2	6:D3:272:VAL:HG12	1.66	1.24
2:A2:989:MSE:HE1	6:D1:241:ALA:N	1.50	1.24
2:A2:1147:ILE:O	3:A5:172:PRO:CB	1.86	1.24
1:A3:1124:ARG:NH2	3:A6:598:VAL:C	1.86	1.24
1:A3:1169:LEU:C	3:A6:590:SER:O	1.76	1.24
1:A3:1189:LEU:HD23	3:A6:644:ALA:CB	1.66	1.24
1:A3:1201:ARG:HG3	3:A6:549:ALA:N	1.50	1.24
1:A3:1202:GLU:HG2	3:A6:91:LEU:CB	1.68	1.24
2:A4:635:ARG:CZ	3:A6:600:LYS:CA	2.16	1.24
2:A4:770:GLY:HA2	3:A6:469:PHE:CD2	1.51	1.24
2:A4:869:ALA:N	6:D3:570:VAL:CG1	1.93	1.24
2:A4:890:ALA:HA	3:A6:175:GLU:OE2	1.35	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:973:GLU:O	6:D3:499:LEU:CD2	1.83	1.24
2:A4:985:ALA:O	6:D3:500:LYS:HD3	1.06	1.24
5:C1:732:LYS:HE2	11:I1:1228:GLU:CG	1.68	1.24
8:F1:1262:HIS:CD2	17:O2:259:ASP:OD1	1.91	1.24
8:F2:1090:PRO:CG	17:O4:245:GLU:OE2	1.83	1.24
11:I1:953:LEU:N	16:N1:403:VAL:HG21	1.13	1.24
11:I2:880:MET:SD	17:O3:250:LEU:CD2	2.22	1.24
11:I2:1059:PRO:HB3	17:O3:273:ASP:O	1.32	1.24
2:A2:973:GLU:CD	6:D1:205:LEU:CD1	1.99	1.23
2:A2:982:THR:HG21	6:D1:494:LEU:O	1.10	1.23
2:A2:1148:ARG:C	5:C2:730:HIS:N	1.92	1.23
1:A3:1198:GLU:C	2:A4:729:SER:O	1.75	1.23
1:A3:1233:GLN:HA	3:A6:578:ILE:CA	1.59	1.23
2:A4:679:TYR:HE2	3:A6:511:PHE:C	1.20	1.23
2:A4:714:GLN:O	3:A6:492:SER:CA	1.86	1.23
2:A4:805:LEU:HD13	3:A6:469:PHE:CG	1.32	1.23
8:F1:1266:MET:CG	17:O2:262:ASP:OD2	1.85	1.23
11:I1:846:ILE:O	15:M1:594:LYS:CD	1.80	1.23
11:I1:950:LEU:CB	16:N1:407:ALA:N	1.93	1.23
11:I2:888:GLU:N	16:N3:393:ILE:HG21	1.45	1.23
11:I2:890:TYR:H	17:O3:242:ARG:NE	1.30	1.23
11:I2:925:LEU:O	20:R3:155:GLU:HA	1.35	1.23
23:U3:278:GLN:HE22	25:W4:188:ASN:C	1.37	1.23
2:A2:781:ARG:NE	6:D1:673:ARG:HB3	1.51	1.23
2:A2:864:ARG:O	6:D1:608:ILE:CG1	1.86	1.23
2:A2:1149:THR:N	5:C2:730:HIS:N	1.85	1.23
1:A3:1192:GLN:N	3:A6:615:LEU:HB2	1.00	1.23
2:A4:553:ASP:CG	3:A6:434:PHE:CA	1.90	1.23
2:A4:670:SER:OG	3:A6:542:LEU:CD2	1.86	1.23
2:A4:757:LEU:HB2	3:A6:544:PHE:N	1.30	1.23
2:A4:852:ASP:N	3:A6:170:THR:H	1.03	1.23
3:A5:1026:PRO:HD2	11:I5:66:LEU:CD2	1.68	1.23
3:A5:1392:ARG:HG2	28:Z2:866:GLU:O	1.32	1.23
3:A5:1392:ARG:CG	28:Z2:866:GLU:O	1.86	1.23
8:F1:1137:GLN:CB	17:O2:244:GLU:O	1.86	1.23
11:I1:928:LEU:CD2	20:R1:154:ALA:O	1.83	1.23
11:I1:980:ILE:HA	15:M1:617:THR:O	1.37	1.23
11:I1:980:ILE:HB	15:M1:618:GLN:O	1.10	1.23
11:I1:1029:LEU:HB3	20:R1:174:ARG:CB	1.52	1.23
2:A2:982:THR:CG2	6:D1:494:LEU:O	1.85	1.23
1:A3:1196:GLU:N	3:A6:612:ALA:CB	2.00	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1259:CYS:SG	3:A6:624:ASP:N	2.11	1.23
1:A3:1277:TRP:O	3:A6:625:LEU:HD21	1.07	1.23
1:A3:1393:THR:HB	3:A6:227:SER:O	1.14	1.23
2:A4:717:VAL:HA	3:A6:512:GLU:OE1	1.23	1.23
2:A4:823:VAL:CG1	3:A6:167:TRP:CZ2	2.21	1.23
2:A4:855:THR:HG21	3:A6:167:TRP:C	1.58	1.23
2:A4:886:PHE:C	3:A6:175:GLU:HB3	1.57	1.23
2:A4:972:GLY:CA	6:D3:204:ASN:OD1	1.82	1.23
2:A4:974:PRO:HA	6:D3:499:LEU:CD1	1.68	1.23
3:A5:1365:VAL:CA	28:Z2:841:ALA:HB3	1.58	1.23
6:D7:530:ARG:C	11:I3:181:GLN:HB3	1.50	1.23
11:I1:919:ALA:CB	16:N1:389:PHE:O	1.86	1.23
11:I1:976:ARG:HH12	15:M1:622:VAL:CB	1.52	1.23
11:I1:1066:LEU:N	16:N1:430:ARG:CG	1.97	1.23
11:I2:889:THR:CB	17:O3:242:ARG:HD3	1.53	1.23
11:I2:955:LYS:N	16:N3:403:VAL:CG2	2.00	1.23
11:I2:965:ALA:CB	20:R3:164:PRO:HA	1.66	1.23
11:I2:1054:ILE:N	17:O3:282:LYS:H	0.95	1.23
11:I2:1054:ILE:O	17:O3:281:ALA:CB	1.86	1.23
2:A2:224:PRO:CD	6:D1:709:ARG:HH12	1.50	1.23
1:A3:1091:VAL:CG2	6:D3:808:ASN:H	1.50	1.23
1:A3:1253:SER:HB2	3:A6:635:ARG:CB	1.66	1.23
1:A3:1325:MET:CE	3:A6:126:ARG:CD	2.08	1.23
2:A4:775:LEU:CG	3:A6:479:VAL:HA	1.62	1.23
2:A4:876:ARG:HD3	6:D3:565:MET:CG	1.69	1.23
2:A4:898:LEU:HD11	4:B6:342:ARG:CB	1.69	1.23
2:A4:973:GLU:CA	6:D3:205:LEU:HB3	1.50	1.23
2:A4:975:GLU:C	6:D3:496:LEU:CA	2.06	1.23
2:A4:986:THR:CB	6:D3:504:LYS:CD	2.09	1.23
11:I1:846:ILE:CG2	17:O1:247:TRP:CZ2	2.20	1.23
11:I1:881:ILE:C	17:O1:249:ARG:CD	1.77	1.23
11:I1:1045:PHE:CZ	16:N1:431:VAL:O	1.92	1.23
11:I2:995:SER:N	17:O3:267:ALA:O	1.70	1.23
11:I2:1031:ALA:N	20:R3:173:LEU:HA	1.46	1.23
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG11	1.50	1.23
1:A1:1224:PRO:CG	2:A2:731:ILE:HD13	1.69	1.23
2:A2:865:ALA:N	6:D1:607:PRO:HD2	1.52	1.23
2:A2:867:GLU:OE2	6:D1:609:ILE:HG13	1.29	1.23
1:A3:1318:TRP:CZ2	3:A6:624:ASP:OD2	1.91	1.23
2:A4:778:PHE:N	6:D3:678:GLY:HA3	1.40	1.23
2:A4:886:PHE:CZ	3:A6:176:LEU:CG	2.22	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:890:ALA:HA	3:A6:175:GLU:CD	1.58	1.23
2:A4:976:LEU:CD1	6:D3:472:PHE:HE2	1.48	1.23
6:D7:527:ASN:O	11:I3:181:GLN:CG	1.85	1.23
11:I1:883:ALA:HB2	17:O1:243:LEU:O	1.16	1.23
11:I1:885:GLU:CA	16:N1:397:GLU:CD	2.04	1.23
11:I2:1058:GLY:C	17:O3:277:GLU:HA	1.49	1.23
11:I3:1273:GLU:HG2	26:X1:535:ALA:CB	1.69	1.23
21:S1:654:LYS:O	21:S2:1154:GLY:HA2	1.37	1.23
1:A3:1166:LEU:C	3:A6:594:LEU:HD23	1.48	1.22
2:A4:701:ILE:CD1	3:A6:466:ALA:CB	2.17	1.22
2:A4:780:GLU:CB	6:D3:679:ILE:CG1	2.02	1.22
2:A4:824:ASN:O	3:A6:138:LEU:CG	1.85	1.22
2:A4:867:GLU:CG	6:D3:605:THR:HG21	1.68	1.22
2:A4:976:LEU:N	6:D3:496:LEU:HA	1.46	1.22
2:A4:1149:THR:HA	5:C4:730:HIS:C	1.21	1.22
3:A5:995:VAL:O	11:I5:61:LYS:HB3	1.38	1.22
3:A5:1101:GLN:NE2	11:I5:33:THR:CG2	1.76	1.22
6:D6:800:PRO:CB	22:T3:765:LYS:CG	2.15	1.22
11:I1:955:LYS:HB3	16:N1:396:ILE:O	1.34	1.22
11:I1:1668:HIS:N	11:I2:1664:PHE:O	1.72	1.22
11:I2:921:GLU:N	15:M3:592:LEU:HG	1.14	1.22
11:I2:951:LYS:HE3	16:N3:400:LEU:C	1.55	1.22
11:I2:1049:LEU:O	17:O3:288:GLU:HA	1.07	1.22
17:O4:106:HIS:O	18:P4:318:PRO:CG	1.87	1.22
21:S1:655:ASN:N	21:S2:1156:ILE:C	1.91	1.22
1:A1:1204:TRP:NE1	2:A2:645:PHE:CE1	2.06	1.22
1:A1:1396:GLY:CA	2:A2:888:GLN:CB	2.13	1.22
2:A2:879:LEU:CG	6:D1:567:LEU:HD11	1.68	1.22
1:A3:1260:ALA:CB	3:A6:719:ARG:HD3	1.63	1.22
2:A4:710:LEU:CB	3:A6:480:VAL:HG22	1.65	1.22
2:A4:861:GLN:O	6:D3:607:PRO:CG	1.85	1.22
2:A4:868:GLN:O	6:D3:598:ILE:HB	1.37	1.22
3:A6:136:GLU:C	6:D3:603:SER:HB2	1.42	1.22
9:G1:255:LEU:O	15:M2:602:MET:HB3	1.36	1.22
11:I1:1013:GLU:C	16:N1:411:GLN:OE1	1.77	1.22
11:I1:1055:GLU:CG	17:O1:280:GLU:HB2	1.68	1.22
11:I1:1635:HIS:CE1	11:I2:1677:LYS:HD2	1.73	1.22
11:I2:950:LEU:CD2	16:N3:410:MET:HE1	1.68	1.22
11:I2:956:ILE:O	20:R3:166:LEU:HB2	1.34	1.22
11:I2:1030:ARG:C	20:R3:173:LEU:C	1.90	1.22
17:O3:151:LEU:CG	18:P3:325:ILE:CG1	2.11	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:654:LYS:CB	21:S2:1153:GLN:O	1.86	1.22
1:A1:1396:GLY:HA2	2:A2:888:GLN:CB	1.57	1.22
2:A2:781:ARG:NE	6:D1:673:ARG:HH11	1.27	1.22
1:A3:1196:GLU:C	3:A6:609:GLU:CA	2.04	1.22
2:A4:553:ASP:CG	3:A6:434:PHE:HA	1.16	1.22
2:A4:691:LYS:CG	3:A6:316:ARG:HD3	1.47	1.22
2:A4:768:SER:HA	3:A6:476:PHE:O	1.34	1.22
2:A4:806:PHE:HE2	3:A6:395:MET:CE	1.51	1.22
2:A4:880:ALA:CB	6:D3:562:GLY:O	1.87	1.22
2:A4:909:LYS:HG2	6:D3:552:TYR:CD2	1.62	1.22
2:A4:1149:THR:C	5:C4:730:HIS:O	1.76	1.22
3:A5:996:ASN:CB	11:I5:56:ARG:C	2.05	1.22
3:A5:1363:ASP:H	28:Z2:875:LEU:CB	1.50	1.22
11:I1:877:ILE:CG2	17:O1:253:LEU:H	1.52	1.22
11:I1:984:GLU:HG2	15:M1:614:ASP:O	1.06	1.22
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG3	1.61	1.22
11:I1:1109:LEU:N	16:N1:441:PHE:N	1.85	1.22
17:O3:151:LEU:CG	18:P3:325:ILE:HG13	1.49	1.22
21:S1:597:ILE:CB	21:S2:1120:PRO:HD3	1.70	1.22
1:A3:1188:ASN:O	3:A6:645:PHE:HB2	1.33	1.22
1:A3:1198:GLU:N	3:A6:678:LEU:CD2	2.03	1.22
1:A3:1228:TYR:CD1	3:A6:551:GLN:CB	2.17	1.22
2:A4:647:GLU:CB	3:A6:503:GLN:HG2	1.46	1.22
2:A4:670:SER:H	3:A6:542:LEU:CG	1.53	1.22
2:A4:692:VAL:N	3:A6:379:VAL:O	1.58	1.22
2:A4:754:HIS:O	3:A6:544:PHE:HA	1.38	1.22
2:A4:860:GLU:HB2	3:A6:130:ILE:O	1.08	1.22
2:A4:918:CYS:SG	4:B6:342:ARG:HB3	1.78	1.22
2:A4:965:LYS:HE2	6:D3:196:ILE:O	1.39	1.22
2:A4:1148:ARG:C	5:C4:730:HIS:N	1.92	1.22
9:G1:269:GLU:HB2	16:N2:412:ASN:O	1.34	1.22
11:I1:928:LEU:HD21	20:R1:154:ALA:O	1.36	1.22
11:I1:1052:LEU:HB3	16:N1:438:LEU:CD1	1.51	1.22
11:I2:984:GLU:CB	15:M3:618:GLN:NE2	1.92	1.22
11:I2:1066:LEU:C	16:N3:430:ARG:HG2	1.47	1.22
21:S3:678:GLU:CB	21:S4:1141:GLU:C	2.08	1.22
2:A2:1132:PRO:HD2	3:A5:160:ILE:CG1	1.69	1.22
1:A3:1198:GLU:CB	3:A6:678:LEU:CG	2.11	1.22
1:A3:1228:TYR:CE1	3:A6:551:GLN:HA	1.74	1.22
1:A3:1230:TYR:CE1	3:A6:609:GLU:O	1.92	1.22
1:A3:1273:ALA:H	3:A6:554:GLN:CG	1.30	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1282:PHE:H	3:A6:625:LEU:CB	1.51	1.22
2:A4:602:ILE:HG12	3:A6:506:SER:CB	1.67	1.22
2:A4:780:GLU:HG2	3:A6:524:ARG:N	1.11	1.22
2:A4:792:VAL:HG22	3:A6:248:VAL:N	1.22	1.22
2:A4:862:LEU:N	3:A6:132:ASP:HB2	1.54	1.22
2:A4:872:ALA:O	6:D3:565:MET:CA	1.78	1.22
2:A4:875:LEU:O	6:D3:564:ASN:HB3	1.34	1.22
3:A5:1415:PHE:H	28:Z2:960:CYS:N	1.36	1.22
3:A6:446:LEU:CD1	6:D3:721:PRO:CA	2.17	1.22
11:I1:916:ALA:O	16:N1:389:PHE:HZ	1.21	1.22
11:I2:894:VAL:HB	17:O3:239:GLN:N	1.27	1.22
17:O4:110:LEU:HD23	18:P4:321:ILE:CA	1.69	1.22
21:S1:660:LEU:CA	21:S2:1102:VAL:HG21	1.67	1.22
1:A3:1196:GLU:OE1	3:A6:611:ILE:HG12	1.38	1.21
1:A3:1261:TYR:CE2	3:A6:616:ALA:HB1	1.74	1.21
2:A4:691:LYS:HD2	3:A6:316:ARG:CG	1.71	1.21
2:A4:777:LEU:CG	3:A6:526:ILE:HA	1.64	1.21
2:A4:778:PHE:CE1	3:A6:466:ALA:HB1	1.72	1.21
2:A4:819:VAL:HG11	3:A6:149:LEU:CG	1.70	1.21
2:A4:886:PHE:CE1	3:A6:176:LEU:N	1.96	1.21
3:A5:232:LEU:CD2	5:C2:739:MET:N	1.95	1.21
11:I1:1018:LYS:CE	16:N1:413:VAL:CA	1.74	1.21
11:I2:846:ILE:CG2	17:O3:247:TRP:CZ2	2.22	1.21
2:A2:1126:VAL:CG2	3:A5:135:PHE:HB3	1.68	1.21
2:A2:1142:PHE:CE2	3:A5:567:VAL:HG23	1.58	1.21
1:A3:1204:TRP:CB	2:A4:731:ILE:CG2	2.19	1.21
2:A4:549:ALA:HA	3:A6:105:GLY:O	1.34	1.21
2:A4:635:ARG:NH1	3:A6:600:LYS:O	1.71	1.21
2:A4:720:LEU:HB3	3:A6:494:PRO:N	1.53	1.21
2:A4:772:SER:N	3:A6:477:PHE:HB3	1.54	1.21
2:A4:878:LEU:CB	6:D3:567:LEU:CD1	2.04	1.21
2:A4:1149:THR:HA	5:C4:730:HIS:O	1.30	1.21
3:A6:132:ASP:CG	6:D3:607:PRO:CD	2.07	1.21
3:A6:520:GLU:N	6:D3:681:ALA:H	1.38	1.21
9:G1:270:ARG:CB	16:N2:414:ALA:O	1.87	1.21
11:I2:874:LEU:O	17:O3:252:VAL:HA	1.41	1.21
11:I2:966:TRP:C	20:R3:153:GLN:HB3	1.60	1.21
11:I2:980:ILE:CB	15:M3:618:GLN:CA	2.06	1.21
1:A3:1052:THR:OG1	6:D3:816:VAL:CB	1.86	1.21
1:A3:1182:ILE:CG2	3:A6:639:ASN:HB2	1.70	1.21
1:A3:1236:GLN:CD	3:A6:578:ILE:HA	1.59	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1237:LEU:HD23	3:A6:119:TRP:NE1	1.45	1.21
2:A4:549:ALA:CA	3:A6:105:GLY:O	1.86	1.21
2:A4:621:GLN:OE1	3:A6:108:SER:O	1.58	1.21
2:A4:623:SER:OG	3:A6:453:SER:CB	1.87	1.21
2:A4:691:LYS:HZ3	3:A6:330:LEU:C	1.39	1.21
2:A4:721:ARG:C	3:A6:572:ARG:HH22	1.35	1.21
2:A4:868:GLN:CB	6:D3:570:VAL:CB	2.11	1.21
3:A6:483:HIS:O	6:D3:675:ARG:HB3	1.38	1.21
9:G1:254:ASN:ND2	15:M2:605:THR:O	1.56	1.21
11:I1:837:MET:CE	17:O1:242:ARG:CA	2.18	1.21
11:I1:945:LEU:HG	17:O1:258:GLU:N	1.55	1.21
11:I2:948:ALA:CB	17:O3:253:LEU:HA	1.70	1.21
11:I3:1267:LEU:CD2	26:X1:529:TRP:CZ3	2.24	1.21
11:I3:1277:LEU:N	26:X1:522:MET:HB2	1.53	1.21
1:A3:1231:VAL:CG1	3:A6:617:VAL:HG23	1.69	1.21
2:A4:90:GLN:OE1	3:A6:427:MET:HA	1.07	1.21
2:A4:868:GLN:CG	6:D3:608:ILE:HD12	1.68	1.21
2:A4:951:GLU:OE1	3:A6:233:THR:HB	1.38	1.21
3:A5:1395:LYS:HA	28:Z2:873:LEU:CB	1.60	1.21
11:I1:947:LEU:HD11	16:N1:411:GLN:CG	1.70	1.21
11:I1:951:LYS:O	16:N1:400:LEU:HA	1.39	1.21
11:I1:1037:THR:CA	15:M1:624:ASN:ND2	2.02	1.21
11:I2:884:LEU:O	16:N3:397:GLU:HG3	1.35	1.21
11:I2:980:ILE:CD1	15:M3:622:VAL:HG23	1.68	1.21
11:I2:1113:LEU:CD2	17:O3:282:LYS:HE2	1.71	1.21
11:I3:1267:LEU:HD22	26:X1:497:ARG:NE	1.53	1.21
18:P1:276:SER:CB	18:P4:322:LYS:HE2	1.57	1.21
1:A3:1230:TYR:CD1	3:A6:609:GLU:O	1.92	1.21
1:A3:1236:GLN:HG2	3:A6:581:LYS:CB	1.71	1.21
1:A3:1257:VAL:HG12	3:A6:620:GLY:N	1.54	1.21
1:A3:1259:CYS:SG	3:A6:624:ASP:OD1	1.98	1.21
2:A4:683:LEU:HB3	3:A6:403:ARG:NH1	1.56	1.21
2:A4:717:VAL:HG12	3:A6:492:SER:O	1.34	1.21
2:A4:873:PRO:HG3	6:D3:572:GLU:OE2	1.37	1.21
2:A4:879:LEU:CD1	6:D3:564:ASN:CG	2.08	1.21
2:A4:970:PHE:N	6:D3:202:GLN:HG3	0.87	1.21
3:A5:1031:TYR:HD1	11:I5:67:LYS:NZ	1.09	1.21
3:A5:1399:ARG:NH1	28:Z2:909:LEU:HA	1.49	1.21
11:I1:873:ILE:HG23	17:O1:254:ARG:CG	1.69	1.21
11:I1:922:ASP:N	15:M1:592:LEU:CD2	1.95	1.21
11:I1:990:GLU:CG	17:O1:275:LEU:CD2	2.16	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1029:LEU:HB2	20:R1:171:ALA:O	1.06	1.21
11:I1:1543:LEU:O	12:J2:300:ILE:HG23	1.39	1.21
11:I1:1603:ARG:NH1	11:I2:1662:ARG:CD	1.89	1.21
11:I2:1045:PHE:C	15:M3:619:ILE:CD1	2.09	1.21
11:I2:1105:TRP:CB	16:N3:439:ARG:HH21	1.53	1.21
11:I5:1279:THR:CG2	26:X2:520:GLU:C	2.09	1.21
17:O3:154:ARG:HD2	18:P3:324:LEU:CD1	1.70	1.21
23:U3:279:TYR:CD1	25:W4:189:SER:CB	2.19	1.21
1:A3:1163:TYR:O	3:A6:648:TYR:CE2	1.92	1.20
2:A4:95:TYR:O	3:A6:364:HIS:HB3	1.06	1.20
2:A4:678:LEU:HD21	3:A6:103:ARG:O	1.07	1.20
2:A4:689:LYS:CE	3:A6:336:ILE:HD13	1.70	1.20
2:A4:713:ILE:CB	3:A6:462:LEU:CD1	2.19	1.20
2:A4:827:ILE:CG1	3:A6:130:ILE:O	1.76	1.20
2:A4:909:LYS:CD	6:D3:555:ARG:CZ	2.09	1.20
3:A5:147:LEU:O	5:C2:747:PRO:CB	1.88	1.20
3:A5:186:ILE:O	5:C2:746:PRO:HD3	1.41	1.20
6:D7:527:ASN:O	11:I3:181:GLN:HG2	1.41	1.20
11:I1:833:PHE:CE2	17:O1:241:SER:HB3	1.75	1.20
11:I1:837:MET:CE	17:O1:243:LEU:H	1.53	1.20
11:I1:1038:ILE:HD13	15:M1:620:VAL:CG1	1.50	1.20
11:I1:1607:GLN:HG2	11:I2:1739:GLU:N	1.55	1.20
11:I2:995:SER:CA	17:O3:267:ALA:O	1.89	1.20
11:I2:1029:LEU:CD1	16:N3:433:GLU:CD	2.08	1.20
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE1	1.88	1.20
2:A2:1147:ILE:O	3:A5:172:PRO:HB2	1.39	1.20
2:A4:615:LEU:CG	3:A6:509:LYS:O	1.89	1.20
2:A4:702:SER:OG	3:A6:379:VAL:HG12	1.42	1.20
2:A4:730:THR:OG1	3:A6:609:GLU:HG3	1.34	1.20
2:A4:821:ALA:HB2	3:A6:147:LEU:N	1.08	1.20
2:A4:868:GLN:HB3	6:D3:570:VAL:CG2	1.70	1.20
2:A4:907:SER:O	6:D3:552:TYR:OH	1.60	1.20
3:A5:172:PRO:HD2	5:C2:730:HIS:CB	1.71	1.20
3:A5:233:THR:C	5:C2:738:ASP:N	1.87	1.20
3:A5:1369:ILE:CG1	28:Z2:828:LEU:O	1.79	1.20
6:D7:179:ASP:OD1	11:I3:49:PRO:HB3	1.38	1.20
11:I1:846:ILE:O	15:M1:594:LYS:HD3	1.04	1.20
11:I1:883:ALA:CB	17:O1:243:LEU:C	2.08	1.20
11:I1:884:LEU:HD22	16:N1:396:ILE:CB	1.41	1.20
11:I1:955:LYS:HE3	16:N1:397:GLU:O	1.04	1.20
11:I1:1609:GLY:HA3	12:J2:295:TYR:CE1	1.77	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1048:GLU:CG	17:O3:288:GLU:HG3	1.70	1.20
11:I2:1059:PRO:CB	17:O3:273:ASP:O	1.90	1.20
11:I3:1273:GLU:N	26:X1:526:CYS:H	1.07	1.20
17:O4:109:PRO:HD2	18:P4:318:PRO:CG	1.69	1.20
1:A1:870:HIS:ND1	6:D3:279:HIS:CE1	2.09	1.20
2:A2:1151:THR:CG2	5:C2:734:VAL:N	2.05	1.20
2:A4:711:VAL:N	3:A6:462:LEU:CD2	2.02	1.20
2:A4:859:GLN:OE1	3:A6:134:VAL:HG21	1.38	1.20
2:A4:896:ALA:C	3:A6:165:PHE:HA	1.61	1.20
3:A5:1151:THR:HA	5:C5:733:LEU:CD1	1.72	1.20
3:A6:520:GLU:HG2	6:D3:639:LEU:CD1	1.70	1.20
3:A6:565:THR:CG2	6:D3:633:LYS:HB3	1.70	1.20
11:I1:996:LEU:HD21	16:N1:410:MET:CE	1.60	1.20
11:I1:1036:PRO:HD2	15:M1:626:HIS:HB2	1.21	1.20
11:I1:1109:LEU:HD13	17:O1:290:TYR:CD2	1.73	1.20
11:I3:1275:SER:HB3	26:X1:522:MET:C	1.62	1.20
11:I3:1275:SER:OG	26:X1:522:MET:CG	1.89	1.20
2:A2:826:ASN:CB	6:D1:633:LYS:HB2	1.70	1.20
1:A3:1021:LEU:CB	6:D3:816:VAL:HG12	1.64	1.20
1:A3:1189:LEU:HD21	3:A6:579:PHE:HZ	1.03	1.20
1:A3:1236:GLN:N	3:A6:581:LYS:N	1.75	1.20
1:A3:1393:THR:HB	3:A6:227:SER:C	1.60	1.20
2:A4:642:ARG:HD2	3:A6:604:GLN:O	1.38	1.20
2:A4:692:VAL:HG13	3:A6:467:LEU:CA	1.70	1.20
2:A4:720:LEU:CG	3:A6:511:PHE:O	1.89	1.20
2:A4:859:GLN:HG2	3:A6:134:VAL:HG23	1.24	1.20
2:A4:861:GLN:H	6:D3:606:LYS:NZ	1.05	1.20
2:A4:861:GLN:C	3:A6:132:ASP:HB2	1.39	1.20
3:A5:220:VAL:HG22	5:C2:738:ASP:O	1.04	1.20
3:A6:1360:GLY:CA	28:Z4:918:PHE:CB	2.19	1.20
3:A6:1403:MSE:SE	28:Z4:964:LEU:CB	2.39	1.20
8:F1:1261:TYR:CD1	17:O2:263:GLN:CB	2.16	1.20
8:F2:1090:PRO:HG3	17:O4:245:GLU:OE2	1.33	1.20
11:I1:833:PHE:CE2	17:O1:238:ALA:C	2.10	1.20
11:I1:896:PRO:O	17:O1:232:LYS:HB3	1.42	1.20
11:I1:1032:THR:N	20:R1:176:ARG:C	1.78	1.20
11:I2:948:ALA:CB	17:O3:253:LEU:O	1.88	1.20
11:I2:1039:ALA:CA	20:R3:170:LEU:CD1	2.17	1.20
11:I3:1267:LEU:CG	26:X1:497:ARG:CZ	2.20	1.20
1:A1:1224:PRO:CD	2:A2:731:ILE:CG1	2.18	1.20
2:A2:777:LEU:CA	6:D1:678:GLY:HA3	1.51	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:970:PHE:N	6:D1:196:ILE:CD1	1.86	1.20
1:A3:1056:PHE:CZ	6:D3:807:THR:O	1.95	1.20
1:A3:1250:PRO:CG	3:A6:635:ARG:CB	2.17	1.20
2:A4:235:TYR:CE1	4:B4:347:LEU:HB2	1.77	1.20
2:A4:918:CYS:SG	4:B6:342:ARG:CB	2.30	1.20
9:G1:263:MET:HE2	17:O2:256:TYR:OH	1.39	1.20
11:I1:923:GLY:HA3	15:M1:592:LEU:N	1.29	1.20
11:I1:955:LYS:CE	16:N1:397:GLU:O	1.87	1.20
11:I2:828:VAL:O	17:O3:237:PRO:CG	1.88	1.20
11:I2:921:GLU:N	15:M3:592:LEU:CG	1.92	1.20
11:I2:939:ASN:ND2	17:O3:265:ASN:OD1	1.75	1.20
11:I2:978:LYS:NZ	20:R3:155:GLU:N	1.90	1.20
17:O3:101:ASN:HB3	18:P3:326:GLN:NE2	1.28	1.20
17:O3:162:LYS:N	18:P3:315:GLU:CD	1.94	1.20
2:A2:235:TYR:CE1	4:B2:347:LEU:HB2	1.77	1.19
1:A3:1224:PRO:CA	3:A6:496:THR:O	1.89	1.19
1:A3:1241:ARG:HH11	3:A6:593:ALA:CB	1.54	1.19
1:A3:1248:ILE:HD11	3:A6:587:VAL:CA	1.59	1.19
1:A3:1261:TYR:HE2	3:A6:679:TYR:CE1	1.60	1.19
1:A3:1281:LEU:CA	3:A6:625:LEU:HG	1.70	1.19
1:A3:1332:ARG:O	6:D3:637:LYS:CD	1.89	1.19
2:A4:720:LEU:HG	3:A6:511:PHE:O	1.04	1.19
2:A4:727:ASN:OD1	3:A6:605:TYR:CA	1.89	1.19
2:A4:854:VAL:CG1	3:A6:174:PRO:N	2.05	1.19
2:A4:875:LEU:O	6:D3:567:LEU:CG	1.75	1.19
2:A4:889:VAL:HG13	3:A6:171:HIS:CD2	1.76	1.19
3:A6:443:ILE:H	6:D3:691:LEU:CD1	1.49	1.19
3:A6:520:GLU:CB	6:D3:639:LEU:CD1	2.20	1.19
3:A6:1368:GLN:CB	28:Z4:875:LEU:HA	1.70	1.19
3:A6:1410:ALA:HB1	26:X4:687:SER:CB	1.72	1.19
11:I1:937:TYR:CB	17:O1:258:GLU:HA	1.69	1.19
11:I1:951:LYS:CD	16:N1:400:LEU:O	1.89	1.19
11:I1:1114:VAL:HG12	16:N1:432:TYR:CE2	1.51	1.19
11:I2:841:PHE:CD1	15:M3:588:MET:CG	2.25	1.19
11:I2:847:THR:H	15:M3:594:LYS:NZ	1.37	1.19
11:I2:939:ASN:CB	17:O3:265:ASN:CG	1.95	1.19
11:I4:813:ILE:CG1	26:X3:496:THR:CG2	2.20	1.19
2:A2:225:THR:CG2	6:D1:706:HIS:HB3	1.71	1.19
2:A2:827:ILE:HD12	2:A2:859:GLN:HB2	1.23	1.19
2:A2:1126:VAL:HG23	3:A5:135:PHE:CB	1.72	1.19
1:A3:1236:GLN:CA	3:A6:581:LYS:HB3	1.71	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:547:GLU:H	3:A6:366:ALA:CB	1.40	1.19
2:A4:551:GLN:O	3:A6:108:SER:OG	1.59	1.19
2:A4:577:ASP:CA	3:A6:453:SER:HB2	1.73	1.19
2:A4:717:VAL:CA	3:A6:512:GLU:OE1	1.90	1.19
2:A4:765:GLU:CB	3:A6:559:PHE:HZ	1.55	1.19
2:A4:772:SER:CB	3:A6:477:PHE:HD1	1.55	1.19
2:A4:970:PHE:CZ	6:D3:498:GLU:OE2	1.75	1.19
11:I1:894:VAL:CG2	17:O1:238:ALA:HB3	1.72	1.19
11:I1:1029:LEU:N	20:R1:171:ALA:C	1.87	1.19
11:I2:984:GLU:HB2	15:M3:618:GLN:NE2	1.42	1.19
1:A3:1203:TYR:N	3:A6:91:LEU:HG	1.37	1.19
1:A3:1318:TRP:CZ2	3:A6:624:ASP:CG	2.15	1.19
2:A4:91:LEU:HD23	3:A6:430:GLN:NE2	1.43	1.19
2:A4:705:ILE:HB	3:A6:482:LYS:N	1.54	1.19
2:A4:716:ASN:N	3:A6:490:PHE:HZ	1.39	1.19
2:A4:825:ARG:CA	3:A6:138:LEU:HD12	1.73	1.19
2:A4:976:LEU:HD13	6:D3:472:PHE:CD2	1.78	1.19
2:A4:985:ALA:CA	6:D3:500:LYS:H	1.55	1.19
3:A6:520:GLU:CA	6:D3:639:LEU:CD1	1.95	1.19
8:F2:1091:SER:H	17:O4:245:GLU:CA	1.55	1.19
9:G2:255:LEU:HD12	17:O4:262:ASP:OD1	1.02	1.19
11:I1:877:ILE:CG2	17:O1:253:LEU:N	2.04	1.19
11:I1:1013:GLU:O	16:N1:411:GLN:OE1	1.59	1.19
11:I1:1037:THR:HG23	20:R1:169:GLY:CA	1.71	1.19
11:I2:978:LYS:HZ2	20:R3:155:GLU:CB	1.54	1.19
17:O3:162:LYS:H	18:P3:315:GLU:CD	1.42	1.19
2:A2:983:LEU:HB2	6:D1:528:PHE:CE1	1.77	1.19
2:A2:1130:ARG:O	3:A5:160:ILE:HG21	1.43	1.19
1:A3:1198:GLU:CA	3:A6:682:ARG:NE	1.85	1.19
1:A3:1258:VAL:O	3:A6:621:GLN:HA	1.40	1.19
2:A4:91:LEU:CD2	3:A6:430:GLN:NE2	1.86	1.19
2:A4:682:ARG:NH2	3:A6:104:PRO:C	1.95	1.19
2:A4:684:VAL:HG22	3:A6:405:PHE:CE2	1.75	1.19
2:A4:763:LEU:HG	3:A6:470:ARG:CG	1.72	1.19
2:A4:767:ILE:C	3:A6:476:PHE:CA	2.10	1.19
2:A4:771:ILE:CD1	3:A6:476:PHE:CZ	2.26	1.19
2:A4:772:SER:C	3:A6:489:LEU:HD11	1.60	1.19
2:A4:975:GLU:HB3	6:D3:501:LEU:CB	1.71	1.19
2:A4:977:VAL:CA	6:D3:492:VAL:HG12	1.58	1.19
8:F1:1137:GLN:HG2	17:O2:248:SER:N	1.56	1.19
8:F1:1205:TRP:HE1	17:O2:251:ILE:CG2	1.54	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:258:LYS:HB2	17:O2:253:LEU:CD2	1.71	1.19
11:I1:797:LEU:HD13	17:O1:245:GLU:CG	1.71	1.19
11:I1:846:ILE:C	15:M1:594:LYS:HD2	1.41	1.19
11:I1:873:ILE:HG23	17:O1:254:ARG:CD	1.71	1.19
11:I1:931:VAL:HG23	15:M1:603:SER:OG	1.36	1.19
11:I1:1070:LEU:N	16:N1:429:GLU:CB	2.04	1.19
11:I1:1108:PRO:HB3	16:N1:443:GLU:HB2	1.24	1.19
11:I2:877:ILE:CG1	17:O3:254:ARG:CG	2.17	1.19
11:I2:899:LEU:HD22	17:O3:231:ASP:OD1	1.40	1.19
11:I2:920:PHE:C	15:M3:592:LEU:CA	1.96	1.19
11:I2:981:VAL:H	20:R3:147:LEU:CD1	1.44	1.19
11:I2:989:GLY:CA	15:M3:614:ASP:OD1	1.87	1.19
21:S3:678:GLU:HA	21:S4:1144:LEU:N	1.16	1.19
2:A2:1122:LEU:CD1	3:A5:135:PHE:CD2	2.26	1.19
1:A3:835:THR:CG2	6:D1:302:PRO:CG	2.21	1.19
1:A3:1251:VAL:HG13	3:A6:634:ASP:OD2	1.38	1.19
1:A3:1274:ASP:O	3:A6:556:PRO:HD3	1.42	1.19
2:A4:80:LYS:CE	3:A6:387:THR:HG23	1.73	1.19
2:A4:705:ILE:CB	3:A6:482:LYS:H	1.40	1.19
2:A4:710:LEU:CB	3:A6:480:VAL:HG23	1.67	1.19
2:A4:734:LEU:HD13	3:A6:95:TYR:CG	1.78	1.19
2:A4:780:GLU:CB	6:D3:679:ILE:HD11	1.72	1.19
3:A5:160:ILE:N	5:C2:744:PHE:HA	1.58	1.19
3:A5:1026:PRO:CB	11:I5:73:TYR:CE1	2.25	1.19
3:A5:1395:LYS:HB2	28:Z2:870:ILE:HA	1.25	1.19
8:F1:1137:GLN:HB2	17:O2:244:GLU:O	1.41	1.19
8:F2:1049:GLN:HE22	17:O4:237:PRO:CB	1.56	1.19
11:I1:841:PHE:CD2	17:O1:243:LEU:CD1	2.25	1.19
11:I1:927:HIS:O	15:M1:597:LYS:CA	1.91	1.19
11:I1:1040:HIS:CD2	16:N1:437:VAL:CG2	2.17	1.19
11:I2:968:PRO:HD3	20:R3:153:GLN:CB	1.54	1.19
11:I2:1017:VAL:CG1	16:N3:410:MET:CG	2.21	1.19
11:I3:1276:GLN:NE2	26:X1:535:ALA:O	1.73	1.19
2:A2:227:SER:CB	6:D1:711:PHE:HB3	1.73	1.18
2:A2:827:ILE:C	2:A2:863:GLN:HB2	1.52	1.18
1:A3:1172:HIS:HB2	3:A6:587:VAL:O	1.40	1.18
1:A3:1236:GLN:HG2	3:A6:581:LYS:HB3	1.23	1.18
1:A3:1265:ASN:CG	3:A6:683:LEU:HD11	1.59	1.18
2:A4:680:LEU:CD2	3:A6:470:ARG:NH2	2.06	1.18
2:A4:715:GLU:OE2	3:A6:516:TRP:HD1	1.24	1.18
2:A4:753:GLU:HG2	3:A6:93:ASP:O	1.42	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:772:SER:CA	3:A6:489:LEU:CG	2.10	1.18
2:A4:772:SER:CA	3:A6:489:LEU:HG	1.71	1.18
3:A5:1029:ILE:N	11:I5:68:ILE:N	1.82	1.18
6:D7:531:LEU:H	11:I3:181:GLN:CG	1.29	1.18
11:I1:949:CYS:O	16:N1:403:VAL:CG1	1.90	1.18
11:I1:1029:LEU:CB	20:R1:174:ARG:HB2	1.70	1.18
11:I1:1070:LEU:H	16:N1:429:GLU:CB	1.54	1.18
11:I2:879:VAL:O	17:O3:246:LEU:C	1.80	1.18
11:I2:881:ILE:HG23	17:O3:249:ARG:NH2	1.56	1.18
11:I2:896:PRO:N	17:O3:233:THR:HA	1.56	1.18
11:I2:950:LEU:HG	15:M3:606:LEU:HD21	1.24	1.18
11:I2:1020:ALA:O	16:N3:406:HIS:ND1	1.76	1.18
2:A2:866:SER:HB3	6:D1:602:THR:O	1.01	1.18
2:A2:1145:GLY:CA	3:A5:129:ASN:ND2	2.06	1.18
1:A3:1198:GLU:N	3:A6:678:LEU:HD21	1.58	1.18
1:A3:1248:ILE:CD1	3:A6:587:VAL:CB	2.14	1.18
2:A4:90:GLN:HB3	3:A6:428:GLN:HB3	1.20	1.18
2:A4:536:ALA:C	3:A6:369:SER:N	1.95	1.18
2:A4:689:LYS:CG	3:A6:336:ILE:HD11	1.72	1.18
2:A4:767:ILE:HA	3:A6:469:PHE:O	1.07	1.18
2:A4:854:VAL:HG11	3:A6:171:HIS:ND1	0.86	1.18
2:A4:947:LYS:NZ	3:A6:235:TYR:HD2	1.27	1.18
3:A6:1151:THR:HA	5:C6:733:LEU:CD1	1.72	1.18
6:D6:800:PRO:HB3	22:T3:765:LYS:CB	1.72	1.18
8:F1:1137:GLN:HG3	17:O2:248:SER:OG	1.19	1.18
11:I1:924:ILE:HD13	15:M1:595:MET:HG2	1.22	1.18
11:I1:957:SER:O	20:R1:168:LEU:CD2	1.89	1.18
11:I2:881:ILE:HA	16:N3:400:LEU:HD13	1.21	1.18
11:I2:949:CYS:SG	15:M3:602:MET:HE1	1.82	1.18
11:I2:1043:LEU:CD1	16:N3:433:GLU:HB3	1.73	1.18
11:I4:813:ILE:HG13	26:X3:496:THR:HG23	1.20	1.18
21:S1:654:LYS:O	21:S2:1154:GLY:CA	1.90	1.18
23:U3:276:VAL:CA	25:W4:192:GLN:HE21	1.35	1.18
1:A1:873:PRO:CB	6:D3:218:LYS:NZ	2.05	1.18
2:A2:780:GLU:CG	6:D1:679:ILE:N	1.84	1.18
1:A3:1189:LEU:HD21	3:A6:579:PHE:CZ	1.79	1.18
1:A3:1253:SER:CB	3:A6:635:ARG:HB2	1.71	1.18
1:A3:1278:PRO:HB2	3:A6:624:ASP:N	1.58	1.18
2:A4:673:HIS:HE1	3:A6:388:GLU:O	1.26	1.18
2:A4:717:VAL:CG2	3:A6:403:ARG:NH2	2.07	1.18
2:A4:720:LEU:HB2	3:A6:512:GLU:HG2	1.22	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:HG3	6:D3:605:THR:CG2	1.72	1.18
2:A4:908:LEU:CD2	6:D3:601:PHE:HB3	1.73	1.18
8:F2:1091:SER:H	17:O4:245:GLU:N	1.12	1.18
11:I1:1046:HIS:CB	17:O1:280:GLU:O	1.90	1.18
11:I2:833:PHE:O	17:O3:241:SER:HA	1.39	1.18
11:I3:1272:TYR:C	26:X1:526:CYS:H	1.12	1.18
11:I5:1279:THR:OG1	26:X2:520:GLU:CA	1.89	1.18
1:A1:870:HIS:HB3	6:D3:279:HIS:CB	1.74	1.18
1:A3:1086:LYS:CB	6:D3:798:MET:HA	1.72	1.18
1:A3:1261:TYR:CE1	3:A6:621:GLN:HG3	1.71	1.18
2:A4:765:GLU:OE1	3:A6:475:TYR:CE2	1.95	1.18
2:A4:877:ALA:CA	6:D3:563:GLU:HA	1.53	1.18
2:A4:907:SER:O	6:D3:552:TYR:CZ	1.97	1.18
3:A5:175:GLU:OE1	5:C2:733:LEU:CD1	1.91	1.18
11:I1:797:LEU:CB	17:O1:245:GLU:HG2	1.74	1.18
11:I1:881:ILE:O	17:O1:249:ARG:HD3	1.44	1.18
11:I1:976:ARG:NH2	15:M1:622:VAL:CG1	2.07	1.18
11:I1:1108:PRO:CD	16:N1:443:GLU:HB3	1.74	1.18
11:I2:925:LEU:HD13	20:R3:156:GLY:N	1.58	1.18
11:I2:963:LEU:C	20:R3:165:SER:OG	1.81	1.18
11:I2:1017:VAL:CG1	16:N3:410:MET:HG2	1.73	1.18
11:I2:1032:THR:HB	20:R3:173:LEU:HD11	1.24	1.18
11:I2:1034:ASP:OD2	15:M3:630:LEU:CG	1.92	1.18
11:I2:1048:GLU:HG3	17:O3:288:GLU:HG3	1.20	1.18
21:S3:678:GLU:CA	21:S4:1144:LEU:N	2.04	1.18
1:A1:1396:GLY:HA2	2:A2:888:GLN:HB2	1.18	1.18
2:A2:864:ARG:CZ	6:D1:610:ASN:ND2	2.05	1.18
2:A2:868:GLN:NE2	6:D1:608:ILE:C	1.98	1.18
2:A2:876:ARG:CD	6:D1:558:LYS:HA	1.74	1.18
2:A2:911:TYR:OH	6:D1:196:ILE:HG21	1.40	1.18
2:A2:1143:LEU:CB	3:A5:130:ILE:O	1.92	1.18
2:A2:1144:ASP:C	3:A5:129:ASN:ND2	1.97	1.18
2:A2:1151:THR:CA	5:C2:733:LEU:HD12	1.73	1.18
2:A2:1154:PHE:CE1	4:B5:342:ARG:CD	2.27	1.18
1:A3:1021:LEU:HD13	6:D3:816:VAL:C	1.62	1.18
1:A3:1261:TYR:CE2	3:A6:679:TYR:CE1	2.29	1.18
1:A3:1265:ASN:OD1	3:A6:683:LEU:HD11	1.39	1.18
1:A3:1278:PRO:HG2	3:A6:624:ASP:CB	1.68	1.18
1:A3:1389:SER:CB	3:A6:224:PRO:CA	1.92	1.18
2:A4:231:SER:HB3	6:D3:709:ARG:NH2	1.58	1.18
2:A4:724:LEU:CD2	3:A6:95:TYR:OH	1.75	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:732:GLN:HG2	3:A6:91:LEU:CD1	1.65	1.18
2:A4:762:LYS:CB	3:A6:472:SER:HB2	1.71	1.18
2:A4:861:GLN:N	6:D3:606:LYS:NZ	1.89	1.18
2:A4:1151:THR:CG2	5:C4:734:VAL:N	2.05	1.18
3:A5:994:VAL:O	11:I5:61:LYS:HD3	1.44	1.18
3:A5:996:ASN:HD22	11:I5:58:ALA:CB	1.33	1.18
3:A5:1005:PHE:CE1	11:I5:67:LYS:CE	2.27	1.18
3:A5:1369:ILE:CG2	28:Z2:827:GLN:O	1.91	1.18
11:I1:1014:ASN:HA	16:N1:411:GLN:O	1.03	1.18
11:I1:1109:LEU:HD12	17:O1:290:TYR:CZ	1.60	1.18
11:I2:833:PHE:CE1	17:O3:245:GLU:CG	2.23	1.18
11:I2:900:ARG:HG3	17:O3:232:LYS:NZ	1.58	1.18
17:O3:102:LYS:HB3	18:P3:322:LYS:CE	1.73	1.18
17:O3:147:ALA:HB1	18:P3:328:PRO:CG	1.73	1.18
1:A3:1188:ASN:HB3	3:A6:645:PHE:HB3	1.25	1.17
1:A3:1197:ALA:N	3:A6:609:GLU:HA	1.58	1.17
1:A3:1229:VAL:HG22	3:A6:574:ARG:HA	1.22	1.17
2:A4:677:ALA:CA	3:A6:98:LEU:CD1	2.10	1.17
2:A4:861:GLN:C	3:A6:132:ASP:CB	2.13	1.17
2:A4:949:PHE:C	4:B6:347:LEU:HD23	1.60	1.17
2:A4:983:LEU:CD1	6:D3:553:PHE:HB3	1.72	1.17
3:A5:165:PHE:N	5:C2:743:LEU:CB	2.05	1.17
3:A6:1391:ARG:CB	28:Z4:908:LEU:O	1.91	1.17
3:A6:1406:GLY:N	26:X4:744:MET:CB	2.06	1.17
11:I1:1013:GLU:O	16:N1:411:GLN:C	1.80	1.17
11:I2:976:ARG:NH2	20:R3:143:PHE:O	1.73	1.17
11:I2:1106:LYS:CA	16:N3:439:ARG:NH1	1.97	1.17
17:O3:155:VAL:HB	18:P3:321:ILE:HG23	1.19	1.17
2:A2:781:ARG:CG	6:D1:673:ARG:HB3	1.74	1.17
2:A2:873:PRO:O	6:D1:563:GLU:HB3	1.44	1.17
2:A2:973:GLU:HG3	6:D1:192:TYR:CE1	1.80	1.17
1:A3:1021:LEU:HD11	6:D3:819:ASN:ND2	1.58	1.17
1:A3:1052:THR:OG1	6:D3:816:VAL:HB	1.00	1.17
1:A3:1056:PHE:HE2	6:D3:806:ASP:O	1.28	1.17
1:A3:1199:GLN:C	2:A4:729:SER:O	1.81	1.17
1:A3:1224:PRO:CA	2:A4:731:ILE:HD13	1.74	1.17
1:A3:1240:HIS:ND1	3:A6:118:SER:CB	1.99	1.17
1:A3:1389:SER:CB	3:A6:224:PRO:CB	2.23	1.17
2:A4:710:LEU:CD2	3:A6:479:VAL:O	1.92	1.17
2:A4:727:ASN:HB2	3:A6:497:GLY:CA	1.73	1.17
2:A4:756:ALA:CA	3:A6:387:THR:O	1.92	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:780:GLU:CB	6:D3:679:ILE:CD1	2.21	1.17
2:A4:789:LEU:CD2	3:A6:146:LYS:CG	2.11	1.17
2:A4:806:PHE:CD2	3:A6:395:MET:HE2	1.77	1.17
2:A4:925:LYS:HD3	3:A6:233:THR:CA	1.48	1.17
3:A5:1026:PRO:C	11:I5:68:ILE:N	1.97	1.17
3:A6:520:GLU:N	6:D3:681:ALA:N	1.91	1.17
4:B5:344:ALA:CB	5:C2:740:ARG:NH2	2.07	1.17
11:I1:833:PHE:CE2	17:O1:238:ALA:O	1.96	1.17
11:I1:837:MET:SD	17:O1:242:ARG:N	0.99	1.17
11:I1:885:GLU:C	16:N1:397:GLU:OE2	1.82	1.17
11:I1:1109:LEU:HG	16:N1:438:LEU:HA	1.21	1.17
11:I2:1024:PHE:CB	16:N3:406:HIS:ND1	2.04	1.17
11:I2:1041:GLN:HE22	15:M3:617:THR:HG22	1.09	1.17
11:I2:1105:TRP:CB	16:N3:439:ARG:NH2	2.04	1.17
11:I4:1274:HIS:N	26:X3:524:SER:OG	1.76	1.17
1:A1:874:VAL:HB	6:D3:276:GLY:O	1.40	1.17
1:A3:1321:MET:SD	3:A6:126:ARG:NH2	2.16	1.17
1:A3:1332:ARG:CG	6:D3:636:ASP:HB3	1.74	1.17
2:A4:671:SER:C	3:A6:100:SER:HB3	1.63	1.17
2:A4:720:LEU:CD2	3:A6:494:PRO:HB3	1.67	1.17
2:A4:781:ARG:NH2	6:D3:633:LYS:CD	2.07	1.17
2:A4:866:SER:OG	3:A6:136:GLU:CG	1.91	1.17
2:A4:886:PHE:HB3	3:A6:175:GLU:CB	1.57	1.17
2:A4:954:ILE:CA	4:B6:345:LYS:HA	1.74	1.17
3:A5:1090:SER:O	11:I5:36:GLU:HG3	0.99	1.17
3:A5:1098:ARG:CD	11:I5:29:GLN:CG	2.15	1.17
3:A6:520:GLU:CG	6:D3:681:ALA:CB	2.10	1.17
8:F1:1264:ARG:O	17:O2:265:ASN:CB	1.92	1.17
11:I2:850:ILE:HG22	15:M3:598:GLU:CG	1.73	1.17
11:I2:938:CYS:SG	15:M3:606:LEU:CD1	2.32	1.17
11:I2:939:ASN:HA	17:O3:264:ILE:O	1.37	1.17
11:I2:944:GLU:CA	17:O3:256:TYR:CD1	2.21	1.17
11:I3:1275:SER:CB	26:X1:522:MET:CA	1.91	1.17
11:I3:1278:ALA:C	26:X1:520:GLU:HA	1.64	1.17
1:A1:834:GLU:C	6:D3:302:PRO:HB2	1.63	1.17
1:A1:1224:PRO:HA	2:A2:723:PHE:O	1.42	1.17
2:A2:1136:LYS:CG	3:A5:138:LEU:CB	2.20	1.17
1:A3:1099:GLN:NE2	11:I2:1415:SER:O	1.77	1.17
1:A3:1153:LEU:HD13	3:A6:592:ASP:OD2	1.43	1.17
1:A3:1167:CYS:CB	3:A6:643:ALA:HB1	1.74	1.17
1:A3:1188:ASN:C	3:A6:645:PHE:CB	2.11	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1249:PHE:CB	3:A6:587:VAL:HG21	1.75	1.17
1:A3:1278:PRO:CB	3:A6:624:ASP:N	2.07	1.17
2:A4:672:ARG:CG	3:A6:96:PRO:CB	2.21	1.17
2:A4:677:ALA:N	3:A6:98:LEU:HA	1.41	1.17
2:A4:764:MET:HE2	3:A6:473:PRO:O	1.44	1.17
2:A4:768:SER:CA	3:A6:476:PHE:C	2.12	1.17
2:A4:978:ASP:HB3	6:D3:476:VAL:CB	1.52	1.17
3:A5:1026:PRO:CD	11:I5:66:LEU:HD23	1.72	1.17
3:A5:1391:ARG:HA	28:Z2:871:HIS:CA	1.74	1.17
6:D6:800:PRO:HB3	22:T3:765:LYS:CG	1.73	1.17
6:D7:530:ARG:HG2	11:I3:181:GLN:HB2	1.21	1.17
8:F1:158:PRO:CG	11:I1:1207:PRO:CD	2.10	1.17
8:F1:1137:GLN:CB	17:O2:248:SER:N	2.02	1.17
11:I1:922:ASP:HB3	15:M1:589:GLY:HA2	1.26	1.17
11:I1:957:SER:CA	20:R1:168:LEU:HG	1.75	1.17
11:I2:833:PHE:CZ	17:O3:242:ARG:N	2.13	1.17
11:I2:850:ILE:HG23	15:M3:598:GLU:OE2	1.00	1.17
11:I2:976:ARG:HB3	20:R3:149:ARG:N	1.58	1.17
11:I2:1021:ILE:CG1	16:N3:410:MET:HE2	1.66	1.17
11:I2:1029:LEU:HD12	16:N3:433:GLU:OE1	1.45	1.17
11:I2:1035:GLN:HA	15:M3:626:HIS:HB2	1.25	1.17
11:I2:1052:LEU:CB	17:O3:283:ALA:CB	2.15	1.17
11:I2:1106:LYS:CB	16:N3:440:GLU:OE2	1.91	1.17
2:A2:878:LEU:CD1	6:D1:608:ILE:HG23	1.73	1.17
1:A3:1306:PRO:CB	3:A6:715:GLU:CB	2.23	1.17
2:A4:669:LEU:HD22	3:A6:542:LEU:N	1.58	1.17
2:A4:718:GLU:HG2	3:A6:492:SER:N	1.58	1.17
2:A4:857:LYS:CD	3:A6:129:ASN:HB2	1.75	1.17
2:A4:897:ASN:N	3:A6:165:PHE:CA	2.07	1.17
2:A4:909:LYS:O	6:D3:555:ARG:CG	1.81	1.17
2:A4:983:LEU:HD11	6:D3:553:PHE:C	1.63	1.17
11:I1:981:VAL:HG11	20:R1:151:LYS:CB	1.69	1.17
11:I2:891:LEU:HD11	16:N3:393:ILE:CD1	1.70	1.17
11:I2:936:LYS:CA	15:M3:609:GLY:HA3	1.74	1.17
11:I2:1045:PHE:C	15:M3:619:ILE:HD12	1.65	1.17
11:I2:1046:HIS:N	15:M3:619:ILE:HD11	1.58	1.17
1:A1:1201:ARG:N	2:A2:729:SER:N	1.78	1.16
2:A2:780:GLU:HG2	6:D1:679:ILE:N	0.90	1.16
2:A2:1155:ASN:HB3	3:A5:177:ILE:HG13	1.24	1.16
1:A3:1121:LEU:C	3:A6:599:ARG:NH2	1.99	1.16
1:A3:1186:TRP:O	3:A6:618:ALA:CB	1.91	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1236:GLN:CA	3:A6:581:LYS:CB	2.24	1.16
1:A3:1249:PHE:CD2	3:A6:633:MET:CG	2.21	1.16
1:A3:1261:TYR:CE2	3:A6:616:ALA:CB	2.27	1.16
1:A3:1277:TRP:CB	3:A6:556:PRO:HG2	1.74	1.16
2:A4:715:GLU:OE2	3:A6:516:TRP:CD1	1.97	1.16
2:A4:867:GLU:N	6:D3:605:THR:HG22	1.59	1.16
2:A4:946:LYS:C	4:B6:348:PRO:O	1.81	1.16
2:A4:947:LYS:NZ	3:A6:235:TYR:CD2	1.93	1.16
3:A5:232:LEU:CG	5:C2:739:MET:H	1.58	1.16
3:A5:996:ASN:ND2	11:I5:58:ALA:CB	1.94	1.16
3:A5:999:SER:O	11:I5:64:LYS:HD2	1.29	1.16
3:A5:1098:ARG:NE	11:I5:29:GLN:HG2	0.85	1.16
11:I1:921:GLU:CB	15:M1:596:ILE:HD11	1.56	1.16
11:I1:922:ASP:N	15:M1:592:LEU:CG	2.04	1.16
11:I1:1020:ALA:HB1	16:N1:407:ALA:N	1.56	1.16
11:I1:1664:PHE:O	11:I2:1664:PHE:O	1.61	1.16
11:I2:886:LEU:HD12	17:O3:245:GLU:CB	1.66	1.16
11:I2:887:GLN:HE21	16:N3:393:ILE:C	1.47	1.16
11:I2:967:SER:HB2	15:M3:625:GLY:CA	1.70	1.16
11:I2:989:GLY:HA3	15:M3:614:ASP:OD1	0.99	1.16
11:I2:1100:ILE:CG2	16:N3:433:GLU:CD	2.14	1.16
18:P1:279:GLY:HA3	18:P4:326:GLN:NE2	1.33	1.16
2:A2:965:LYS:CG	6:D1:196:ILE:O	1.92	1.16
2:A2:1094:ILE:CG1	6:D2:759:GLN:CD	2.14	1.16
1:A3:1196:GLU:N	3:A6:612:ALA:HB2	1.30	1.16
1:A3:1332:ARG:HG3	6:D3:636:ASP:CB	1.75	1.16
2:A4:78:VAL:C	3:A6:385:PRO:HD3	1.64	1.16
2:A4:89:LEU:CD1	3:A6:404:LEU:O	1.91	1.16
2:A4:710:LEU:O	3:A6:490:PHE:CB	1.91	1.16
2:A4:754:HIS:CD2	3:A6:538:ALA:HA	1.76	1.16
2:A4:771:ILE:HD11	3:A6:476:PHE:CE2	1.80	1.16
2:A4:826:ASN:ND2	3:A6:565:THR:CB	2.07	1.16
2:A4:986:THR:HG21	6:D3:504:LYS:CD	1.64	1.16
2:A4:1151:THR:CA	5:C4:733:LEU:HD12	1.73	1.16
3:A5:1027:HIS:ND1	11:I5:65:LYS:HB3	1.61	1.16
3:A6:1366:LEU:O	28:Z4:874:ASN:CB	1.91	1.16
9:G1:263:MET:C	16:N2:411:GLN:HB2	1.62	1.16
11:I1:873:ILE:CG2	17:O1:254:ARG:HG2	1.74	1.16
11:I1:946:THR:OG1	17:O1:260:LEU:HD22	1.45	1.16
11:I1:956:ILE:HG23	20:R1:166:LEU:HB3	1.18	1.16
11:I1:992:ILE:H	15:M1:608:LYS:HG2	1.06	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:880:MET:HE2	15:M3:598:GLU:OE1	0.99	1.16
11:I2:978:LYS:HZ1	20:R3:155:GLU:N	1.41	1.16
11:I2:984:GLU:OE2	15:M3:615:PRO:CA	1.93	1.16
11:I2:997:SER:OG	16:N3:427:VAL:CG2	1.91	1.16
21:S4:1032:ILE:HD11	21:S4:1054:LEU:HB2	1.26	1.16
2:A2:227:SER:HB2	6:D1:711:PHE:CD2	1.80	1.16
2:A2:970:PHE:N	6:D1:196:ILE:HD11	1.11	1.16
1:A3:1261:TYR:CD1	3:A6:621:GLN:CA	2.25	1.16
2:A4:550:VAL:CG2	3:A6:367:ASP:HB2	1.68	1.16
2:A4:692:VAL:O	3:A6:466:ALA:O	1.63	1.16
2:A4:701:ILE:HG21	3:A6:481:ARG:HB3	1.17	1.16
2:A4:714:GLN:O	3:A6:492:SER:N	1.77	1.16
2:A4:777:LEU:C	6:D3:678:GLY:HA3	1.65	1.16
11:I1:954:GLU:CB	16:N1:402:GLY:C	1.95	1.16
11:I1:1033:PRO:O	16:N1:441:PHE:CE1	1.97	1.16
11:I1:1043:LEU:HA	16:N1:430:ARG:HB2	1.26	1.16
11:I1:1664:PHE:C	11:I2:1668:HIS:N	1.95	1.16
11:I2:875:ARG:C	17:O3:251:ILE:HG22	1.10	1.16
11:I2:944:GLU:CA	17:O3:256:TYR:CE1	2.27	1.16
11:I2:962:ILE:HD13	15:M3:596:ILE:HG22	1.24	1.16
11:I2:990:GLU:HB3	17:O3:272:SER:HA	1.20	1.16
11:I2:1106:LYS:HA	16:N3:439:ARG:NH1	1.32	1.16
21:S1:597:ILE:HA	21:S2:1120:PRO:CD	1.76	1.16
1:A1:834:GLU:HB2	6:D3:302:PRO:CG	1.76	1.16
2:A2:872:ALA:HB1	6:D1:565:MET:HA	1.19	1.16
2:A2:872:ALA:HB1	6:D1:565:MET:CA	1.75	1.16
1:A3:1201:ARG:CB	2:A4:728:LYS:O	1.93	1.16
1:A3:1226:LEU:C	3:A6:551:GLN:CG	2.02	1.16
1:A3:1392:ARG:CB	3:A6:225:THR:OG1	1.93	1.16
2:A4:537:ALA:N	3:A6:368:SER:HA	1.09	1.16
2:A4:703:SER:N	3:A6:465:SER:O	1.77	1.16
2:A4:780:GLU:HB2	3:A6:524:ARG:HB3	1.25	1.16
2:A4:806:PHE:CB	3:A6:382:SER:CB	2.14	1.16
2:A4:826:ASN:CG	6:D3:633:LYS:HB2	1.66	1.16
3:A5:150:PHE:HE2	5:C2:740:ARG:O	1.29	1.16
3:A5:234:LEU:CD2	5:C2:738:ASP:C	2.13	1.16
11:I1:984:GLU:CB	15:M1:614:ASP:O	1.92	1.16
11:I1:1019:LEU:C	16:N1:409:ALA:HB2	0.86	1.16
11:I1:1066:LEU:HB3	16:N1:430:ARG:CD	1.75	1.16
11:I2:833:PHE:CZ	17:O3:241:SER:C	2.19	1.16
11:I2:884:LEU:HB2	16:N3:400:LEU:CD1	1.76	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:CB	16:N3:400:LEU:HD12	1.74	1.16
11:I2:1029:LEU:HB3	20:R3:174:ARG:CG	1.74	1.16
11:I2:1033:PRO:CB	20:R3:177:LEU:HG	1.44	1.16
11:I2:1039:ALA:HA	20:R3:170:LEU:CD1	1.74	1.16
11:I2:1110:SER:CB	16:N3:438:LEU:H	1.51	1.16
17:O3:101:ASN:OD1	18:P3:322:LYS:HG2	1.42	1.16
1:A1:1202:GLU:O	2:A2:732:GLN:HA	1.46	1.16
2:A2:874:VAL:N	6:D1:568:ARG:HA	1.50	1.16
2:A2:1149:THR:HA	5:C2:730:HIS:O	1.30	1.16
1:A3:1233:GLN:CB	3:A6:601:PHE:HE1	1.58	1.16
1:A3:1250:PRO:CG	3:A6:635:ARG:CA	2.18	1.16
1:A3:1254:LEU:O	3:A6:638:GLU:OE2	1.62	1.16
2:A4:542:LEU:HD23	3:A6:364:HIS:ND1	1.53	1.16
2:A4:555:VAL:H	3:A6:458:THR:N	1.42	1.16
2:A4:677:ALA:HA	3:A6:98:LEU:HD12	1.20	1.16
2:A4:769:GLU:HB2	3:A6:471:PHE:CE2	1.79	1.16
2:A4:908:LEU:HG	6:D3:601:PHE:O	1.43	1.16
2:A4:950:ASP:OD2	4:B6:348:PRO:CA	1.92	1.16
2:A4:976:LEU:CD2	6:D3:472:PHE:HD2	1.59	1.16
2:A4:976:LEU:CG	6:D3:501:LEU:HB3	1.75	1.16
3:A5:234:LEU:CD2	5:C2:738:ASP:O	1.94	1.16
11:I1:837:MET:HE1	17:O1:243:LEU:N	1.60	1.16
11:I1:842:ASN:HA	15:M1:587:GLU:HG3	1.26	1.16
11:I1:1056:PRO:CA	17:O1:278:GLU:HB2	1.64	1.16
11:I1:1607:GLN:HE21	11:I2:1736:LEU:HD12	1.01	1.16
11:I2:898:VAL:CG2	17:O3:237:PRO:CD	2.23	1.16
11:I2:931:VAL:CA	15:M3:601:ASP:O	1.90	1.16
11:I2:950:LEU:HD12	16:N3:410:MET:HB3	1.24	1.16
11:I2:980:ILE:CG2	15:M3:621:ARG:HB2	1.74	1.16
11:I2:1021:ILE:CA	16:N3:406:HIS:CE1	2.28	1.16
11:I2:1031:ALA:N	20:R3:173:LEU:C	1.98	1.16
18:P2:319:VAL:HG23	18:P3:278:ASN:OD1	1.26	1.16
1:A3:835:THR:HG21	6:D1:302:PRO:CG	1.74	1.15
1:A3:1244:LEU:HD22	3:A6:633:MET:HE3	1.26	1.15
1:A3:1274:ASP:HB3	3:A6:556:PRO:CD	1.74	1.15
1:A3:1278:PRO:HG2	3:A6:624:ASP:CG	1.64	1.15
2:A4:635:ARG:NH2	3:A6:600:LYS:C	2.00	1.15
2:A4:670:SER:OG	3:A6:542:LEU:HD21	1.41	1.15
2:A4:889:VAL:CG1	3:A6:171:HIS:HB2	1.71	1.15
2:A4:949:PHE:CB	4:B6:348:PRO:CD	2.20	1.15
2:A4:969:ASP:C	6:D3:202:GLN:HG3	1.65	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:164:LEU:HB2	5:C2:742:ASP:OD2	1.00	1.15
3:A5:221:SER:H	5:C2:738:ASP:CG	1.49	1.15
3:A5:1365:VAL:O	28:Z2:841:ALA:HB1	1.43	1.15
3:A5:1369:ILE:HG21	28:Z2:830:LEU:CB	1.29	1.15
9:G1:258:LYS:O	17:O2:256:TYR:HB2	1.42	1.15
11:I1:797:LEU:HD22	17:O1:245:GLU:HG3	1.16	1.15
11:I1:841:PHE:CE1	17:O1:243:LEU:HD11	1.80	1.15
11:I1:873:ILE:O	17:O1:251:ILE:CG2	1.95	1.15
11:I1:1058:GLY:C	17:O1:277:GLU:HB2	1.57	1.15
11:I1:1114:VAL:N	16:N1:435:ALA:CB	2.08	1.15
11:I2:1109:LEU:HB3	16:N3:438:LEU:HA	1.17	1.15
1:A3:1236:GLN:N	3:A6:578:ILE:O	1.79	1.15
1:A3:1270:SER:CB	3:A6:709:LYS:NZ	2.07	1.15
1:A3:1277:TRP:CB	3:A6:556:PRO:CG	2.24	1.15
2:A4:87:GLN:N	3:A6:393:HIS:H	1.44	1.15
2:A4:602:ILE:CG1	3:A6:506:SER:OG	1.93	1.15
2:A4:616:ALA:HB1	3:A6:109:ASP:OD2	1.47	1.15
2:A4:648:TYR:CG	3:A6:503:GLN:HG3	1.68	1.15
2:A4:672:ARG:NH2	3:A6:94:SER:O	1.79	1.15
2:A4:865:ALA:CA	6:D3:567:LEU:HD22	1.75	1.15
3:A6:484:PRO:CG	6:D3:672:GLU:CG	1.99	1.15
8:F1:1267:ARG:HG3	17:O2:265:ASN:OD1	1.00	1.15
11:I1:1029:LEU:HD13	20:R1:174:ARG:HD3	1.23	1.15
11:I1:1109:LEU:HD11	17:O1:290:TYR:CD2	1.72	1.15
11:I2:879:VAL:O	17:O3:246:LEU:O	1.64	1.15
11:I2:883:ALA:HB1	17:O3:246:LEU:HB3	1.27	1.15
11:I2:947:LEU:HD12	17:O3:260:LEU:CD2	1.76	1.15
17:O4:107:THR:HG22	18:P4:321:ILE:HD12	1.22	1.15
1:A1:834:GLU:HB2	6:D3:302:PRO:HG3	1.26	1.15
1:A1:874:VAL:CG2	6:D3:272:VAL:CB	2.25	1.15
2:A2:907:SER:HB3	6:D1:600:LYS:O	1.46	1.15
2:A2:1154:PHE:HE1	4:B5:342:ARG:CD	1.59	1.15
1:A3:1230:TYR:CD2	3:A6:575:LEU:CD1	2.20	1.15
1:A3:1244:LEU:CB	3:A6:633:MET:HE1	1.74	1.15
1:A3:1277:TRP:C	3:A6:625:LEU:HD21	1.42	1.15
2:A4:611:ILE:HG21	3:A6:508:LEU:HD11	1.20	1.15
2:A4:648:TYR:CD2	3:A6:504:PRO:N	1.88	1.15
2:A4:712:THR:HG21	3:A6:461:ALA:CB	1.76	1.15
2:A4:789:LEU:HD22	3:A6:146:LYS:CB	1.54	1.15
2:A4:854:VAL:CG1	3:A6:173:ASN:N	2.08	1.15
2:A4:861:GLN:C	6:D3:607:PRO:HD3	1.64	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:886:PHE:CB	3:A6:175:GLU:CB	2.24	1.15
3:A5:1368:GLN:CB	28:Z2:841:ALA:CA	2.14	1.15
3:A6:1368:GLN:HB3	28:Z4:878:HIS:CB	1.76	1.15
8:F1:1137:GLN:CD	17:O2:249:ARG:H	1.32	1.15
8:F1:1264:ARG:HG2	17:O2:263:GLN:O	1.45	1.15
11:I1:874:LEU:HD23	17:O1:252:VAL:HA	1.24	1.15
11:I1:945:LEU:HD23	17:O1:258:GLU:C	1.66	1.15
11:I1:984:GLU:HB3	15:M1:618:GLN:NE2	1.62	1.15
11:I1:1677:LYS:HD2	11:I2:1635:HIS:CE1	1.81	1.15
11:I2:898:VAL:CG2	17:O3:236:ASP:CA	2.23	1.15
11:I2:898:VAL:HG23	17:O3:236:ASP:CA	1.76	1.15
11:I2:995:SER:HA	17:O3:267:ALA:CB	1.75	1.15
21:S1:655:ASN:N	21:S2:1156:ILE:O	1.80	1.15
2:A2:980:ARG:NE	6:D1:525:ARG:CA	1.97	1.15
2:A2:989:MSE:CE	6:D1:241:ALA:N	2.10	1.15
2:A2:1139:ILE:HG21	3:A5:135:PHE:H	1.07	1.15
1:A3:1099:GLN:CG	11:I2:1414:CYS:O	1.94	1.15
1:A3:1267:GLN:OE1	3:A6:552:PHE:N	1.77	1.15
2:A4:672:ARG:HA	3:A6:508:LEU:CD1	1.77	1.15
2:A4:792:VAL:H	3:A6:187:THR:CB	1.59	1.15
2:A4:871:ASN:OD1	6:D3:573:LEU:N	1.79	1.15
3:A5:160:ILE:O	5:C2:744:PHE:CD1	1.99	1.15
3:A5:221:SER:H	5:C2:738:ASP:CB	1.57	1.15
3:A5:1026:PRO:CD	11:I5:102:ILE:CD1	2.24	1.15
3:A5:1050:TYR:OH	11:I5:70:GLU:OE1	1.59	1.15
3:A6:1398:LYS:CD	28:Z4:918:PHE:HA	1.76	1.15
11:I1:880:MET:CE	17:O1:247:TRP:CZ3	2.27	1.15
11:I2:881:ILE:CG2	17:O3:249:ARG:HG2	1.75	1.15
11:I2:920:PHE:HA	15:M3:592:LEU:HA	1.20	1.15
11:I2:980:ILE:HD11	20:R3:147:LEU:CB	1.77	1.15
21:S1:666:THR:O	21:S2:1146:ALA:O	1.61	1.15
23:U3:277:LEU:N	25:W4:192:GLN:HE22	1.34	1.15
2:A2:1137:ALA:HB1	3:A5:564:ASN:HB2	1.17	1.15
2:A2:1144:ASP:H	3:A5:129:ASN:HB3	1.11	1.15
2:A2:1153:LEU:HG	3:A5:173:ASN:CA	1.63	1.15
1:A3:1224:PRO:HA	3:A6:496:THR:C	1.67	1.15
1:A3:1241:ARG:NH1	3:A6:593:ALA:CB	2.08	1.15
2:A4:719:ARG:O	3:A6:513:GLN:CG	1.80	1.15
2:A4:865:ALA:O	6:D3:598:ILE:CD1	1.94	1.15
3:A5:234:LEU:HD23	5:C2:738:ASP:CA	1.74	1.15
3:A5:1369:ILE:HD11	28:Z2:833:ASP:H	1.05	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:519:LEU:C	6:D3:686:ASP:OD1	1.84	1.15
3:A6:1368:GLN:CB	28:Z4:878:HIS:CB	2.24	1.15
9:G1:252:LEU:HA	15:M2:602:MET:SD	1.87	1.15
11:I1:837:MET:CE	17:O1:242:ARG:CB	2.25	1.15
11:I1:846:ILE:CD1	15:M1:594:LYS:CD	2.23	1.15
11:I1:1108:PRO:HB2	16:N1:443:GLU:N	1.62	1.15
11:I1:1642:LEU:CD1	11:I2:1669:ARG:HH12	1.59	1.15
11:I2:881:ILE:CG2	17:O3:249:ARG:NH2	2.10	1.15
11:I2:890:TYR:H	17:O3:242:ARG:CD	1.59	1.15
11:I2:1039:ALA:C	20:R3:170:LEU:CD2	2.14	1.15
11:I2:1067:PHE:N	16:N3:430:ARG:HG2	1.61	1.15
17:O2:111:TYR:H	18:P2:325:ILE:CG2	1.58	1.15
1:A1:874:VAL:CG2	6:D3:272:VAL:HB	1.76	1.14
2:A2:223:THR:CB	6:D1:709:ARG:NH2	2.10	1.14
2:A2:235:TYR:CD1	4:B2:347:LEU:HB2	1.82	1.14
2:A2:869:ALA:HB3	6:D1:574:VAL:HG23	1.25	1.14
2:A2:904:GLN:O	6:D1:602:THR:HA	1.45	1.14
2:A2:1139:ILE:HG22	3:A5:135:PHE:CD2	1.82	1.14
2:A4:702:SER:CB	3:A6:399:ASP:HB3	1.77	1.14
2:A4:760:LEU:HD12	3:A6:388:GLU:CG	1.64	1.14
2:A4:861:GLN:NE2	6:D3:607:PRO:HB3	1.61	1.14
2:A4:944:SER:C	4:B6:351:GLU:HG3	1.50	1.14
3:A5:995:VAL:O	11:I5:61:LYS:CB	1.95	1.14
3:A6:1327:VAL:HG11	28:Z4:961:PHE:CB	1.75	1.14
9:G1:254:ASN:O	15:M2:606:LEU:HB2	1.00	1.14
9:G2:256:GLN:NE2	17:O4:263:GLN:H	1.44	1.14
11:I1:853:ILE:HG23	17:O1:254:ARG:HD3	1.29	1.14
11:I1:900:ARG:HG3	17:O1:232:LYS:NZ	1.60	1.14
11:I1:923:GLY:HA2	15:M1:590:LYS:C	1.63	1.14
11:I1:1546:TRP:HB3	12:J2:300:ILE:CD1	1.76	1.14
11:I1:1664:PHE:CE2	11:I2:1669:ARG:N	1.82	1.14
11:I2:928:LEU:HD13	20:R3:151:LYS:HE2	1.24	1.14
11:I2:980:ILE:CD1	20:R3:147:LEU:HB2	1.59	1.14
1:A1:868:GLN:HA	6:D3:280:GLN:CG	1.76	1.14
1:A1:1222:ALA:HA	2:A2:615:LEU:HD13	1.25	1.14
2:A2:870:HIS:CD2	6:D1:551:PHE:HB2	1.63	1.14
2:A2:983:LEU:HB3	6:D1:553:PHE:CB	1.78	1.14
1:A3:1201:ARG:NH2	3:A6:537:ALA:CB	2.10	1.14
1:A3:1241:ARG:HH12	3:A6:593:ALA:CA	1.50	1.14
1:A3:1271:ILE:CG1	3:A6:550:VAL:HB	1.77	1.14
2:A4:90:GLN:NE2	3:A6:427:MET:CA	2.08	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:552:PHE:CE1	3:A6:109:ASP:OD2	1.99	1.14
2:A4:635:ARG:NH1	3:A6:600:LYS:HA	1.62	1.14
2:A4:682:ARG:NH2	3:A6:105:GLY:HA3	1.57	1.14
2:A4:763:LEU:HG	3:A6:470:ARG:HG2	1.26	1.14
2:A4:801:THR:N	3:A6:319:TYR:OH	1.80	1.14
2:A4:861:GLN:HA	6:D3:607:PRO:CD	1.77	1.14
3:A5:1368:GLN:HE22	28:Z2:840:PHE:CB	1.59	1.14
3:A5:1398:LYS:HD2	28:Z2:873:LEU:O	1.46	1.14
3:A5:1405:LEU:N	28:Z2:918:PHE:N	1.67	1.14
5:C1:732:LYS:NZ	11:I1:1225:LYS:CD	2.11	1.14
8:F1:1264:ARG:HB3	17:O2:263:GLN:HA	1.16	1.14
9:G1:256:GLN:HG2	17:O2:257:ALA:HB2	1.27	1.14
11:I1:1068:HIS:CE1	16:N1:431:VAL:HB	1.82	1.14
11:I2:1069:SER:H	16:N3:428:ASP:N	1.31	1.14
1:A1:1226:LEU:HG	2:A2:725:GLU:OE1	1.47	1.14
2:A2:826:ASN:HA	6:D1:633:LYS:HB2	1.30	1.14
2:A2:868:GLN:N	6:D1:598:ILE:HG21	1.63	1.14
2:A2:968:SER:HA	6:D1:201:LEU:O	1.44	1.14
2:A2:1130:ARG:O	3:A5:160:ILE:CG2	1.95	1.14
2:A4:861:GLN:O	6:D3:607:PRO:CD	1.94	1.14
2:A4:908:LEU:CD2	6:D3:601:PHE:CB	2.25	1.14
2:A4:973:GLU:N	6:D3:205:LEU:H	1.44	1.14
3:A5:994:VAL:N	11:I5:57:GLU:HG2	1.61	1.14
3:A5:1050:TYR:OH	11:I5:70:GLU:CB	1.95	1.14
3:A5:1090:SER:O	11:I5:36:GLU:CG	1.94	1.14
3:A5:1392:ARG:HH11	28:Z2:867:LYS:N	1.46	1.14
3:A6:1398:LYS:CD	28:Z4:918:PHE:CA	2.23	1.14
8:F1:1137:GLN:CG	17:O2:248:SER:N	2.10	1.14
8:F2:1088:GLU:OE1	17:O4:247:TRP:C	1.85	1.14
11:I1:833:PHE:CD2	17:O1:238:ALA:CA	2.09	1.14
11:I1:880:MET:CG	17:O1:250:LEU:HB3	1.74	1.14
11:I1:898:VAL:HB	17:O1:235:ASN:O	1.31	1.14
11:I1:920:PHE:O	15:M1:592:LEU:CA	1.66	1.14
11:I1:950:LEU:HD23	16:N1:406:HIS:HD2	1.13	1.14
11:I2:828:VAL:O	17:O3:237:PRO:HG2	1.44	1.14
11:I2:936:LYS:HA	15:M3:609:GLY:HA3	1.15	1.14
11:I2:1054:ILE:O	17:O3:281:ALA:HB3	0.96	1.14
1:A1:1332:ARG:NH1	6:D1:682:ASN:H	1.44	1.14
2:A2:824:ASN:OD1	2:A2:859:GLN:CD	1.86	1.14
1:A3:1238:ILE:HG23	3:A6:586:CYS:HB2	1.19	1.14
2:A4:87:GLN:H	3:A6:393:HIS:N	1.44	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:691:LYS:CB	3:A6:316:ARG:CD	2.16	1.14
2:A4:792:VAL:CG1	3:A6:248:VAL:HG12	1.77	1.14
2:A4:793:SER:CB	3:A6:146:LYS:CD	2.25	1.14
2:A4:827:ILE:CA	2:A4:860:GLU:HA	1.63	1.14
2:A4:861:GLN:CD	6:D3:607:PRO:HB3	1.68	1.14
2:A4:872:ALA:CB	6:D3:565:MET:HE1	1.67	1.14
2:A4:916:GLN:N	4:B6:342:ARG:NH1	1.77	1.14
3:A5:1395:LYS:N	28:Z2:870:ILE:O	1.80	1.14
3:A6:441:THR:HG21	6:D3:717:LEU:HA	1.14	1.14
3:A6:519:LEU:O	6:D3:686:ASP:OD1	1.65	1.14
11:I1:797:LEU:HB3	17:O1:245:GLU:CG	1.78	1.14
11:I1:922:ASP:O	15:M1:593:ALA:CB	1.93	1.14
11:I1:955:LYS:CE	16:N1:397:GLU:CA	2.26	1.14
11:I1:1047:CYS:O	20:R1:143:PHE:HE1	1.29	1.14
11:I1:1114:VAL:CG2	16:N1:435:ALA:HB3	1.77	1.14
11:I1:1669:ARG:HD2	11:I2:1605:LEU:CD1	1.77	1.14
11:I2:850:ILE:HG22	15:M3:598:GLU:HG2	1.18	1.14
11:I3:816:ASP:HA	26:X1:498:SER:HB3	1.24	1.14
11:I3:1273:GLU:HA	26:X1:523:LEU:HA	1.18	1.14
11:I4:819:MET:HB2	26:X3:501:LYS:CE	1.77	1.14
2:A2:826:ASN:CA	6:D1:633:LYS:HB2	1.76	1.14
2:A2:858:ALA:O	6:D1:606:LYS:CE	1.96	1.14
2:A2:971:ALA:O	6:D1:203:PRO:HG2	1.45	1.14
1:A3:1201:ARG:HA	3:A6:546:ASN:HD21	1.11	1.14
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD12	1.22	1.14
2:A4:235:TYR:CD1	4:B4:347:LEU:HB2	1.82	1.14
2:A4:693:VAL:N	3:A6:316:ARG:NH1	1.93	1.14
2:A4:854:VAL:HG13	3:A6:173:ASN:CA	1.77	1.14
2:A4:1053:ARG:O	6:D4:762:ARG:HG2	1.47	1.14
2:A4:1151:THR:HG23	5:C4:734:VAL:H	1.04	1.14
3:A5:1026:PRO:CD	11:I5:102:ILE:HD11	1.74	1.14
3:A5:1091:VAL:HG12	11:I5:36:GLU:OE1	1.38	1.14
3:A6:442:ARG:NH2	6:D3:741:ILE:CA	2.10	1.14
11:I1:880:MET:CB	17:O1:250:LEU:HB2	1.67	1.14
11:I1:924:ILE:HG12	15:M1:592:LEU:O	0.99	1.14
11:I1:976:ARG:N	20:R1:149:ARG:HH11	1.46	1.14
11:I1:981:VAL:HG11	20:R1:151:LYS:HB2	1.15	1.14
11:I1:992:ILE:N	15:M1:608:LYS:HG3	1.37	1.14
11:I1:1018:LYS:HE2	16:N1:413:VAL:CG1	1.67	1.14
11:I1:1043:LEU:HB3	16:N1:430:ARG:O	1.47	1.14
11:I1:1055:GLU:HG2	17:O1:280:GLU:CG	1.76	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1066:LEU:HB3	16:N1:430:ARG:CB	1.77	1.14
11:I2:980:ILE:HG23	15:M3:621:ARG:CB	1.77	1.14
11:I2:1051:LYS:CE	17:O3:289:ASP:OD1	1.95	1.14
1:A3:1188:ASN:CB	3:A6:645:PHE:HB3	1.77	1.13
1:A3:1191:ASN:OD1	3:A6:619:CYS:SG	2.05	1.13
1:A3:1244:LEU:HB3	3:A6:633:MET:CE	1.76	1.13
1:A3:1332:ARG:CZ	6:D3:636:ASP:OD1	1.96	1.13
2:A4:684:VAL:CG2	3:A6:405:PHE:CZ	2.31	1.13
2:A4:879:LEU:HB2	6:D3:564:ASN:CG	1.66	1.13
2:A4:904:GLN:OE1	3:A6:133:LYS:O	1.64	1.13
3:A6:1415:PHE:CE1	28:Z4:996:LYS:CB	2.12	1.13
9:G1:258:LYS:HB2	17:O2:253:LEU:HD21	1.18	1.13
11:I2:964:SER:H	20:R3:165:SER:CB	1.60	1.13
2:A2:781:ARG:N	6:D1:673:ARG:O	1.81	1.13
1:A3:1194:HIS:CE1	3:A6:552:PHE:CE2	2.35	1.13
1:A3:1257:VAL:CG1	3:A6:620:GLY:N	2.11	1.13
1:A3:1325:MET:CE	3:A6:126:ARG:CZ	2.26	1.13
2:A4:95:TYR:O	3:A6:364:HIS:CB	1.95	1.13
2:A4:607:ARG:HA	3:A6:506:SER:HB3	1.19	1.13
2:A4:722:ASN:N	3:A6:572:ARG:HH22	1.45	1.13
2:A4:796:GLN:N	3:A6:249:SER:HB2	1.55	1.13
2:A4:798:LYS:HD2	3:A6:314:TRP:NE1	1.62	1.13
2:A4:864:ARG:CB	6:D3:607:PRO:HD2	1.79	1.13
2:A4:1151:THR:CG2	5:C4:734:VAL:H	1.43	1.13
3:A5:1094:ILE:CG1	11:I5:4:LEU:HD12	1.78	1.13
3:A6:1370:ALA:HB3	28:Z4:870:ILE:O	1.45	1.13
11:I1:916:ALA:N	15:M1:585:LEU:C	1.93	1.13
11:I1:919:ALA:O	15:M1:592:LEU:HD22	1.45	1.13
11:I1:927:HIS:O	15:M1:597:LYS:CB	1.85	1.13
11:I1:1029:LEU:HD22	20:R1:174:ARG:HG3	1.17	1.13
11:I1:1063:GLN:O	16:N1:428:ASP:HB2	1.48	1.13
11:I1:1066:LEU:HB3	16:N1:430:ARG:HD3	1.26	1.13
11:I1:1611:PHE:HB3	11:I2:1672:VAL:HG22	1.20	1.13
11:I2:853:ILE:HG12	17:O3:254:ARG:CD	1.78	1.13
11:I2:967:SER:CB	15:M3:625:GLY:HA2	1.73	1.13
11:I2:983:LEU:HA	15:M3:612:PRO:O	1.48	1.13
11:I2:1020:ALA:O	16:N3:406:HIS:HA	1.45	1.13
11:I2:1034:ASP:OD1	15:M3:627:LEU:HA	1.46	1.13
11:I2:1050:SER:O	17:O3:290:TYR:N	1.79	1.13
11:I3:815:ILE:HG23	26:X1:497:ARG:H	1.08	1.13
23:U3:278:GLN:HG3	25:W4:189:SER:CA	1.71	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1204:TRP:CH2	2:A2:757:LEU:CD2	2.31	1.13
2:A2:879:LEU:HG	6:D1:567:LEU:CD1	1.77	1.13
1:A3:1124:ARG:HH21	3:A6:598:VAL:C	1.36	1.13
1:A3:1196:GLU:HA	3:A6:608:VAL:CG1	1.77	1.13
1:A3:1273:ALA:N	3:A6:554:GLN:HG3	0.88	1.13
2:A4:638:GLU:HB3	3:A6:498:ARG:HH12	1.11	1.13
2:A4:703:SER:OG	3:A6:399:ASP:HA	1.48	1.13
2:A4:753:GLU:OE2	3:A6:542:LEU:HD23	1.35	1.13
2:A4:771:ILE:HD13	3:A6:478:ASP:HB2	1.20	1.13
2:A4:857:LYS:HD2	3:A6:129:ASN:HB2	1.22	1.13
2:A4:875:LEU:HD12	6:D3:567:LEU:CG	1.77	1.13
2:A4:889:VAL:HG11	3:A6:171:HIS:CB	1.69	1.13
3:A5:234:LEU:HD23	5:C2:738:ASP:O	1.43	1.13
3:A5:1369:ILE:CG2	28:Z2:831:LEU:N	2.11	1.13
3:A5:1395:LYS:CG	28:Z2:873:LEU:CB	2.25	1.13
8:F1:1262:HIS:ND1	17:O2:259:ASP:N	1.95	1.13
11:I1:947:LEU:HD13	17:O1:256:TYR:CZ	1.83	1.13
11:I1:962:ILE:HG21	20:R1:166:LEU:CB	1.66	1.13
11:I1:1667:GLN:HB2	11:I2:1664:PHE:N	1.54	1.13
11:I2:847:THR:N	15:M3:594:LYS:NZ	1.97	1.13
11:I2:894:VAL:CG1	17:O3:238:ALA:N	1.99	1.13
11:I2:1046:HIS:HB3	17:O3:280:GLU:O	0.95	1.13
11:I2:1051:LYS:HE2	17:O3:289:ASP:OD1	1.49	1.13
11:I2:1054:ILE:HA	17:O3:280:GLU:N	1.24	1.13
21:S3:1032:ILE:HD11	21:S3:1054:LEU:HB2	1.26	1.13
1:A1:835:THR:N	6:D3:302:PRO:HB2	1.61	1.13
1:A1:1332:ARG:O	6:D1:637:LYS:CD	1.96	1.13
2:A2:826:ASN:ND2	6:D1:633:LYS:HB3	1.62	1.13
2:A2:865:ALA:CB	6:D1:604:ASP:O	1.96	1.13
2:A2:982:THR:HG23	6:D1:497:PHE:N	1.10	1.13
1:A3:1116:HIS:HB3	3:A6:596:ARG:CZ	1.74	1.13
1:A3:1186:TRP:O	3:A6:618:ALA:HB2	1.34	1.13
1:A3:1241:ARG:HH11	3:A6:593:ALA:HB1	1.05	1.13
1:A3:1250:PRO:HG2	3:A6:635:ARG:N	1.62	1.13
1:A3:1282:PHE:N	3:A6:625:LEU:HB3	1.62	1.13
1:A3:1390:LEU:HD12	3:A6:228:GLY:HA3	1.31	1.13
2:A4:648:TYR:HD2	3:A6:504:PRO:N	1.17	1.13
2:A4:691:LYS:HD2	3:A6:316:ARG:CB	1.78	1.13
2:A4:720:LEU:HD22	3:A6:494:PRO:HB3	1.13	1.13
2:A4:874:VAL:HB	6:D3:567:LEU:O	1.31	1.13
2:A4:918:CYS:SG	4:B6:342:ARG:HG2	1.86	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:976:LEU:HG	6:D3:501:LEU:CB	1.79	1.13
3:A5:1026:PRO:HG3	11:I5:73:TYR:CD1	1.81	1.13
3:A6:483:HIS:O	6:D3:675:ARG:CB	1.95	1.13
3:A6:1413:SER:HA	28:Z4:994:ILE:CB	1.79	1.13
11:I1:947:LEU:HA	16:N1:407:ALA:HB3	1.14	1.13
11:I2:846:ILE:CG2	17:O3:247:TRP:CH2	2.28	1.13
11:I2:1109:LEU:CD1	17:O3:290:TYR:CD2	2.27	1.13
11:I3:1270:LYS:NZ	26:X1:530:ARG:HG2	1.63	1.13
21:S1:597:ILE:CB	21:S2:1119:LEU:CB	2.25	1.13
21:S1:678:GLU:CA	21:S2:1127:GLN:CG	1.90	1.13
1:A1:1201:ARG:HD2	2:A2:734:LEU:HD23	1.30	1.12
2:A2:876:ARG:HD2	6:D1:558:LYS:CG	1.77	1.13
2:A2:1155:ASN:OD1	3:A5:175:GLU:CG	1.97	1.13
1:A3:1229:VAL:CA	3:A6:574:ARG:CB	2.12	1.13
1:A3:1230:TYR:CE1	3:A6:610:THR:N	2.17	1.13
1:A3:1231:VAL:HA	3:A6:613:ALA:HB1	1.26	1.13
1:A3:1236:GLN:CG	3:A6:578:ILE:HA	1.78	1.12
1:A3:1236:GLN:CG	3:A6:581:LYS:CB	2.24	1.12
1:A3:1241:ARG:CZ	3:A6:593:ALA:O	1.97	1.12
1:A3:1249:PHE:HB2	3:A6:587:VAL:CG2	1.77	1.13
1:A3:1259:CYS:H	3:A6:623:SER:HB3	1.14	1.12
1:A3:1271:ILE:HB	3:A6:550:VAL:CA	1.76	1.13
2:A4:720:LEU:HA	3:A6:495:ASP:N	1.28	1.13
1:A3:1182:ILE:HG22	3:A6:639:ASN:HB2	1.24	1.12
1:A3:1285:LEU:N	3:A6:581:LYS:NZ	1.69	1.12
1:A3:1393:THR:OG1	3:A6:229:SER:N	1.81	1.12
2:A4:610:THR:OG1	3:A6:506:SER:HB2	1.38	1.12
2:A4:861:GLN:O	6:D3:607:PRO:HG3	1.43	1.12
2:A4:868:GLN:HG2	6:D3:608:ILE:HD12	1.16	1.12
2:A4:900:THR:HB	3:A6:137:HIS:CD2	1.82	1.12
2:A4:1055:ARG:HD2	6:D4:762:ARG:HB3	1.13	1.12
3:A5:1369:ILE:HG13	28:Z2:828:LEU:O	1.46	1.12
8:F1:1202:TYR:O	17:O2:252:VAL:HA	0.95	1.13
8:F1:1205:TRP:CD2	17:O2:254:ARG:HD2	1.83	1.13
8:F1:1093:LEU:HB3	17:O2:244:GLU:OE1	1.33	1.12
9:G1:255:LEU:H	15:M2:602:MET:CB	1.59	1.12
11:I1:1055:GLU:CA	17:O1:281:ALA:H	1.62	1.12
11:I1:1066:LEU:CB	16:N1:430:ARG:CD	2.25	1.13
11:I1:1069:SER:C	16:N1:429:GLU:CG	2.03	1.13
11:I2:952:LEU:HD23	15:M3:602:MET:CG	1.78	1.13
3:A6:1395:LYS:O	28:Z4:920:SER:CB	1.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1040:HIS:HB2	15:M3:619:ILE:CG2	1.79	1.12
11:I4:1273:GLU:CB	26:X3:524:SER:HB3	1.79	1.12
18:P2:320:GLN:CG	18:P3:278:ASN:CB	2.05	1.13
11:I1:900:ARG:CG	17:O1:232:LYS:NZ	2.11	1.12
11:I1:946:THR:HA	17:O1:257:ALA:CA	1.79	1.12
11:I1:1104:LEU:HD13	16:N1:433:GLU:CA	1.79	1.12
11:I1:1673:VAL:N	11:I2:1611:PHE:C	2.01	1.12
21:S2:176:MET:HE2	21:S2:212:LEU:HD11	1.31	1.12
2:A2:989:MSE:HE1	6:D1:240:ASP:CA	1.71	1.12
2:A2:1157:TYR:CD1	3:A5:134:VAL:CG2	2.33	1.12
2:A2:1160:GLN:OE1	3:A5:165:PHE:HA	1.49	1.12
1:A3:1021:LEU:HD11	6:D3:819:ASN:HD22	1.05	1.12
1:A3:1021:LEU:HD12	6:D3:816:VAL:O	1.26	1.12
1:A3:1228:TYR:CB	3:A6:551:GLN:HB3	1.77	1.12
1:A3:1229:VAL:CG2	3:A6:574:ARG:HA	1.79	1.12
2:A4:611:ILE:CB	3:A6:508:LEU:CB	2.10	1.12
2:A4:674:ASP:OD1	3:A6:97:ASP:OD1	1.67	1.12
2:A4:691:LYS:HB3	3:A6:316:ARG:CD	1.77	1.12
2:A4:720:LEU:CA	3:A6:493:ALA:O	1.95	1.12
2:A4:881:GLU:O	3:A6:173:ASN:ND2	1.81	1.12
2:A4:1055:ARG:CD	6:D4:762:ARG:CB	2.15	1.12
3:A5:1391:ARG:CA	28:Z2:871:HIS:N	2.01	1.12
8:F2:1049:GLN:NE2	17:O4:237:PRO:CB	2.08	1.12
11:I1:840:LEU:CG	17:O1:244:GLU:CG	2.23	1.12
11:I1:874:LEU:HD23	17:O1:252:VAL:CA	1.78	1.12
11:I1:982:GLN:CG	15:M1:621:ARG:HH22	1.62	1.12
11:I1:1052:LEU:O	17:O1:286:ILE:CB	1.95	1.12
11:I2:895:ARG:HD2	17:O3:234:LEU:CB	1.63	1.12
11:I2:931:VAL:C	15:M3:605:THR:HG23	1.68	1.12
11:I2:950:LEU:HB3	16:N3:406:HIS:CD2	1.84	1.12
11:I2:1014:ASN:HB3	16:N3:413:VAL:O	1.38	1.12
11:I2:1020:ALA:HB3	16:N3:410:MET:N	1.64	1.12
11:I5:536:GLU:CA	25:W2:8:HIS:N	2.12	1.12
23:U3:279:TYR:CD1	25:W4:189:SER:HB3	1.72	1.12
1:A1:868:GLN:CA	6:D3:280:GLN:CG	2.27	1.12
2:A2:870:HIS:CE1	6:D1:566:PHE:CD1	2.36	1.12
2:A2:986:THR:OG1	6:D1:497:PHE:CZ	2.03	1.12
2:A2:1138:GLU:HB2	3:A5:147:LEU:HD11	1.31	1.12
2:A2:1142:PHE:HB2	3:A5:130:ILE:HA	1.12	1.12
1:A3:1201:ARG:CB	2:A4:735:ALA:N	2.01	1.12
1:A3:1274:ASP:O	3:A6:556:PRO:HD2	1.44	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:85:VAL:HG12	3:A6:394:LEU:O	1.48	1.12
2:A4:948:ALA:N	3:A6:235:TYR:CE1	2.05	1.12
3:A5:996:ASN:ND2	11:I5:58:ALA:HB3	1.57	1.12
3:A5:999:SER:OG	11:I5:63:PRO:CD	1.98	1.12
3:A5:1027:HIS:ND1	11:I5:65:LYS:C	2.03	1.12
8:F1:1267:ARG:CD	17:O2:265:ASN:OD1	1.97	1.12
9:G1:251:TYR:O	17:O2:258:GLU:OE2	1.66	1.12
9:G1:266:ASP:N	16:N2:411:GLN:OE1	1.81	1.12
11:I1:1037:THR:O	15:M1:620:VAL:HA	1.44	1.12
11:I2:841:PHE:HB3	15:M3:588:MET:HA	1.31	1.12
11:I2:884:LEU:O	16:N3:397:GLU:CG	1.97	1.12
11:I2:889:THR:HB	17:O3:242:ARG:CD	1.79	1.12
11:I2:956:ILE:O	20:R3:166:LEU:CB	1.95	1.12
11:I2:980:ILE:CD1	20:R3:147:LEU:CB	2.27	1.12
11:I2:1017:VAL:HG21	17:O3:260:LEU:HD11	1.19	1.12
11:I2:1058:GLY:C	17:O3:277:GLU:CA	2.13	1.12
11:I2:1058:GLY:HA3	17:O3:277:GLU:N	1.61	1.12
11:I2:1104:LEU:HD23	16:N3:437:VAL:HG23	1.15	1.12
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD22	1.85	1.12
2:A2:858:ALA:C	6:D1:606:LYS:HE2	1.69	1.12
1:A3:1248:ILE:HD11	3:A6:587:VAL:CG2	1.55	1.12
1:A3:1389:SER:HB3	3:A6:224:PRO:CB	1.78	1.12
2:A4:75:LEU:HD23	3:A6:323:THR:OG1	1.33	1.12
2:A4:86:ASN:HB2	3:A6:393:HIS:CA	1.80	1.12
2:A4:550:VAL:CG2	3:A6:367:ASP:HB3	1.73	1.12
2:A4:689:LYS:HD3	3:A6:381:LEU:HD22	1.17	1.12
2:A4:701:ILE:CD1	3:A6:466:ALA:HB2	1.77	1.12
2:A4:717:VAL:HG22	3:A6:403:ARG:HH22	0.99	1.12
2:A4:720:LEU:CA	3:A6:512:GLU:HA	1.71	1.12
2:A4:757:LEU:CD1	3:A6:543:GLY:CA	2.27	1.12
2:A4:758:HIS:O	3:A6:535:PHE:HD1	1.30	1.12
2:A4:803:GLU:OE2	3:A6:394:LEU:HD21	1.48	1.12
2:A4:876:ARG:CG	6:D3:563:GLU:O	1.98	1.12
2:A4:886:PHE:CA	3:A6:175:GLU:CA	2.28	1.12
2:A4:893:LEU:HD22	3:A6:176:LEU:C	1.69	1.12
2:A4:975:GLU:HB2	6:D3:501:LEU:HD12	1.31	1.12
2:A4:984:ALA:C	6:D3:498:GLU:HA	1.50	1.12
8:F1:1262:HIS:HE1	17:O2:255:GLY:O	1.32	1.12
11:I2:958:THR:H	16:N3:399:HIS:CD2	1.66	1.12
11:I2:966:TRP:O	20:R3:153:GLN:HB3	1.50	1.12
1:A1:1201:ARG:CD	2:A2:734:LEU:HB3	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1229:VAL:HG21	2:A2:725:GLU:CG	1.79	1.12
2:A2:1114:ILE:HD11	5:C2:731:LYS:CG	1.80	1.12
1:A3:1166:LEU:HA	3:A6:594:LEU:HB3	1.19	1.12
1:A3:1186:TRP:CH2	3:A6:583:LEU:HB3	1.85	1.12
1:A3:1201:ARG:CA	3:A6:546:ASN:ND2	2.12	1.12
2:A4:551:GLN:HG3	3:A6:107:SER:HA	1.31	1.12
2:A4:642:ARG:HG2	3:A6:501:VAL:HG11	1.21	1.12
2:A4:770:GLY:HA2	3:A6:469:PHE:CG	1.65	1.12
2:A4:778:PHE:N	6:D3:678:GLY:CA	2.02	1.12
2:A4:781:ARG:HD2	6:D3:633:LYS:NZ	1.64	1.12
2:A4:825:ARG:CA	3:A6:138:LEU:CD1	2.28	1.12
2:A4:865:ALA:HA	6:D3:567:LEU:HD22	1.25	1.12
2:A4:972:GLY:O	6:D3:206:VAL:N	1.81	1.12
2:A4:975:GLU:N	6:D3:499:LEU:HB2	1.64	1.12
2:A4:975:GLU:HA	6:D3:499:LEU:HB2	1.18	1.12
3:A6:1367:THR:HB	28:Z4:877:ILE:N	1.63	1.12
9:G2:255:LEU:HA	17:O4:262:ASP:OD2	1.47	1.12
11:I1:894:VAL:HG21	17:O1:238:ALA:N	1.65	1.12
11:I1:895:ARG:NE	17:O1:233:THR:HG22	1.61	1.12
11:I1:913:ALA:H	15:M1:584:GLN:NE2	1.45	1.12
11:I1:951:LYS:HG3	16:N1:400:LEU:O	1.21	1.12
11:I1:1035:GLN:O	16:N1:441:PHE:HZ	1.30	1.12
11:I1:1739:GLU:CB	11:I2:1540:LYS:HE2	1.80	1.12
11:I2:885:GLU:HA	16:N3:397:GLU:CB	1.78	1.12
11:I2:890:TYR:HB3	17:O3:242:ARG:HB2	1.28	1.12
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CD	1.63	1.12
17:O4:107:THR:CG2	18:P4:321:ILE:CD1	2.27	1.12
2:A2:827:ILE:O	2:A2:863:GLN:CB	0.82	1.11
2:A2:1054:SER:O	6:D2:762:ARG:CB	1.87	1.11
2:A2:1126:VAL:HG23	3:A5:135:PHE:HB3	1.17	1.11
1:A3:1124:ARG:HH21	3:A6:599:ARG:N	1.48	1.11
1:A3:1201:ARG:HH22	3:A6:537:ALA:CB	1.60	1.11
1:A3:1306:PRO:HB2	3:A6:715:GLU:HB3	1.18	1.11
2:A4:86:ASN:CB	3:A6:394:LEU:N	2.02	1.11
2:A4:705:ILE:HB	3:A6:482:LYS:H	0.95	1.11
2:A4:737:PRO:HB3	3:A6:93:ASP:OD2	0.94	1.11
2:A4:780:GLU:HB3	3:A6:564:ASN:ND2	1.29	1.11
2:A4:824:ASN:OD1	2:A4:859:GLN:CD	1.86	1.11
2:A4:827:ILE:HD12	2:A4:859:GLN:HB2	1.23	1.11
3:A5:160:ILE:O	5:C2:744:PHE:HD1	1.32	1.11
3:A5:187:THR:HA	5:C2:746:PRO:HD2	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1024:ASP:CB	11:I5:98:ALA:HB3	1.80	1.11
6:D7:530:ARG:CB	11:I3:181:GLN:HB2	1.65	1.11
11:I1:881:ILE:HD12	17:O1:249:ARG:O	1.50	1.11
11:I1:1029:LEU:CD1	20:R1:171:ALA:HA	1.57	1.11
11:I1:1605:LEU:HB2	11:I2:1669:ARG:NE	1.64	1.11
11:I2:895:ARG:C	17:O3:233:THR:C	2.06	1.11
11:I2:951:LYS:HB3	17:O3:253:LEU:HD22	1.18	1.11
11:I2:968:PRO:CD	20:R3:153:GLN:HB2	1.79	1.11
11:I2:1045:PHE:CE2	16:N3:434:LEU:HB2	1.68	1.11
11:I2:1052:LEU:HB3	17:O3:283:ALA:HB1	1.27	1.11
11:I3:1277:LEU:HB2	26:X1:522:MET:H	1.07	1.11
11:I4:819:MET:CE	26:X3:502:MET:HG2	1.79	1.11
21:S1:684:THR:N	21:S2:1148:TYR:HA	1.61	1.11
2:A2:827:ILE:C	2:A2:863:GLN:CB	1.88	1.11
2:A2:1143:LEU:N	3:A5:129:ASN:CB	2.03	1.11
1:A3:1086:LYS:HB3	6:D3:798:MET:CA	1.81	1.11
1:A3:1271:ILE:CB	3:A6:550:VAL:CA	2.27	1.11
1:A3:1285:LEU:CB	3:A6:581:LYS:NZ	2.11	1.11
2:A4:549:ALA:CB	3:A6:365:MET:HE1	1.62	1.11
2:A4:760:LEU:HD12	3:A6:388:GLU:CD	1.71	1.11
2:A4:789:LEU:CD2	3:A6:146:LYS:CA	2.27	1.11
2:A4:792:VAL:CG2	3:A6:248:VAL:H	1.63	1.11
2:A4:866:SER:C	6:D3:598:ILE:CG1	2.18	1.11
2:A4:873:PRO:HG3	6:D3:572:GLU:CD	1.69	1.11
2:A4:874:VAL:CB	6:D3:567:LEU:O	1.93	1.11
2:A4:886:PHE:CE1	3:A6:176:LEU:CG	2.30	1.11
2:A4:893:LEU:HD22	3:A6:177:ILE:N	1.65	1.11
2:A4:898:LEU:CA	3:A6:176:LEU:O	1.97	1.11
2:A4:975:GLU:CA	6:D3:499:LEU:CB	2.27	1.11
3:A5:232:LEU:CD1	5:C2:739:MET:CG	2.27	1.11
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD11	1.12	1.11
3:A5:1029:ILE:CG2	11:I5:71:GLU:H	1.62	1.11
3:A5:1033:GLN:HE21	11:I5:70:GLU:CB	1.44	1.11
3:A6:565:THR:HG22	6:D3:633:LYS:CB	1.78	1.11
8:F1:1266:MET:HG3	17:O2:262:ASP:CG	1.70	1.11
9:G1:258:LYS:CB	17:O2:253:LEU:CD2	2.28	1.11
11:I1:880:MET:HG2	17:O1:247:TRP:HA	1.25	1.11
11:I1:882:LYS:HB2	17:O1:245:GLU:C	1.70	1.11
11:I1:931:VAL:HG22	15:M1:604:ASN:CB	1.79	1.11
11:I1:977:ASN:O	20:R1:147:LEU:O	1.68	1.11
11:I1:1018:LYS:HE2	16:N1:413:VAL:HG13	1.12	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1049:LEU:HB2	20:R1:146:LEU:HD13	1.14	1.11
11:I2:833:PHE:C	17:O3:241:SER:HB2	1.60	1.11
11:I2:873:ILE:HG21	17:O3:258:GLU:HG3	1.32	1.11
11:I2:948:ALA:N	17:O3:256:TYR:CD2	2.18	1.11
11:I2:984:GLU:OE2	15:M3:615:PRO:HA	0.97	1.11
11:I2:1029:LEU:CD1	16:N3:433:GLU:OE1	1.96	1.11
11:I2:1031:ALA:N	20:R3:172:ASP:O	1.82	1.11
11:I2:1046:HIS:H	17:O3:280:GLU:HA	1.12	1.11
11:I3:1278:ALA:N	26:X1:519:ILE:CG2	1.90	1.11
17:O3:158:GLU:CG	18:P3:316:LEU:H	1.56	1.11
2:A2:827:ILE:CA	2:A2:860:GLU:HA	1.63	1.11
2:A2:977:VAL:C	6:D1:496:LEU:HD12	1.71	1.11
2:A2:1136:LYS:CG	3:A5:138:LEU:HB2	1.79	1.11
1:A3:1123:GLU:CG	3:A6:599:ARG:CD	2.29	1.11
1:A3:1389:SER:O	3:A6:229:SER:N	1.84	1.11
2:A4:200:VAL:N	4:B4:352:ALA:O	1.84	1.11
2:A4:689:LYS:HD2	3:A6:336:ILE:HD11	1.32	1.11
2:A4:689:LYS:HA	3:A6:381:LEU:HD23	1.16	1.11
2:A4:715:GLU:CD	3:A6:516:TRP:CD1	2.24	1.11
2:A4:780:GLU:HG2	3:A6:523:ASN:C	1.68	1.11
2:A4:793:SER:HB3	3:A6:146:LYS:HD2	1.30	1.11
2:A4:805:LEU:HD11	3:A6:469:PHE:CD2	1.84	1.11
2:A4:868:GLN:NE2	6:D3:608:ILE:HD12	1.63	1.11
2:A4:944:SER:CB	3:A6:200:VAL:HB	1.79	1.11
3:A5:1359:LEU:HB2	28:Z2:878:HIS:N	1.37	1.11
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CA	1.80	1.11
3:A6:1403:MSE:CG	26:X4:742:ALA:HA	1.80	1.11
4:B5:344:ALA:CA	5:C2:737:LYS:CD	2.25	1.11
8:F1:1137:GLN:CB	17:O2:248:SER:OG	1.99	1.11
8:F2:1091:SER:N	17:O4:245:GLU:CA	2.13	1.11
11:I1:837:MET:HE2	17:O1:242:ARG:HB2	1.19	1.11
11:I1:959:SER:HA	16:N1:395:GLU:CB	1.80	1.11
11:I1:965:ALA:HB2	20:R1:163:LEU:O	1.47	1.11
11:I2:853:ILE:CG1	17:O3:254:ARG:CD	2.27	1.11
11:I2:944:GLU:HA	17:O3:256:TYR:CD1	1.78	1.11
11:I2:951:LYS:HG2	16:N3:404:GLU:CG	1.76	1.11
11:I2:976:ARG:HH12	15:M3:622:VAL:HG22	1.10	1.11
11:I2:1038:ILE:HD11	15:M3:621:ARG:HG3	1.12	1.11
11:I2:1109:LEU:HA	17:O3:290:TYR:OH	1.50	1.11
17:O3:151:LEU:CD2	18:P3:325:ILE:CB	2.09	1.11
23:U1:274:GLN:HB3	25:W2:189:SER:CB	1.78	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:NE2	3:A5:166:LEU:N	1.97	1.11
1:A3:1021:LEU:CD1	6:D3:816:VAL:HA	1.81	1.11
1:A3:1162:ASN:N	3:A6:647:GLU:O	1.77	1.11
1:A3:1201:ARG:HG2	3:A6:548:LEU:HB2	1.26	1.11
1:A3:1230:TYR:CE1	3:A6:609:GLU:C	2.22	1.11
1:A3:1259:CYS:CB	3:A6:624:ASP:OD1	1.99	1.11
2:A4:89:LEU:HB3	3:A6:406:LEU:HG	1.25	1.11
2:A4:611:ILE:HB	3:A6:508:LEU:HB2	1.29	1.11
2:A4:642:ARG:C	3:A6:501:VAL:CG1	2.18	1.11
2:A4:652:PRO:CA	3:A6:542:LEU:CD1	2.29	1.11
2:A4:720:LEU:CG	3:A6:494:PRO:CA	2.03	1.11
2:A4:946:LYS:HB2	4:B6:350:GLU:CA	1.74	1.11
2:A4:975:GLU:N	6:D3:499:LEU:HD12	1.63	1.11
3:A5:993:ASN:O	11:I5:57:GLU:HG2	1.49	1.11
3:A6:1367:THR:HG22	28:Z4:872:TYR:O	1.50	1.11
8:F1:1203:TRP:HZ2	17:O2:248:SER:HB2	0.97	1.11
8:F2:1091:SER:N	17:O4:245:GLU:HA	1.64	1.11
11:I1:885:GLU:HA	16:N1:397:GLU:CD	1.46	1.11
11:I1:931:VAL:CG1	15:M1:604:ASN:OD1	1.99	1.11
11:I1:999:SER:O	16:N1:413:VAL:HG12	1.45	1.11
11:I1:1024:PHE:CB	16:N1:406:HIS:CB	2.21	1.11
11:I1:1604:ALA:CA	11:I2:1739:GLU:C	2.06	1.11
11:I1:1672:VAL:HG22	11:I2:1611:PHE:HB3	1.28	1.11
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CE	1.79	1.11
11:I2:890:TYR:CB	17:O3:242:ARG:HB2	1.80	1.11
11:I2:894:VAL:N	17:O3:239:GLN:HG2	1.64	1.11
11:I2:922:ASP:CB	15:M3:589:GLY:O	1.98	1.11
11:I2:967:SER:HB2	15:M3:625:GLY:HA3	1.12	1.11
11:I3:1271:GLU:CB	26:X1:525:ILE:CG2	2.21	1.11
11:I3:1271:GLU:C	26:X1:525:ILE:HG22	1.58	1.11
11:I3:1277:LEU:HG	26:X1:522:MET:SD	1.90	1.11
1:A1:1201:ARG:HD2	2:A2:734:LEU:CD2	1.81	1.11
2:A2:227:SER:HB3	6:D1:711:PHE:HB3	1.27	1.11
2:A2:864:ARG:HG2	6:D1:609:ILE:HB	1.25	1.11
2:A4:547:GLU:H	3:A6:366:ALA:HB3	1.15	1.11
2:A4:678:LEU:O	3:A6:431:PHE:CZ	2.04	1.11
2:A4:721:ARG:O	3:A6:572:ARG:NH2	1.81	1.11
2:A4:771:ILE:N	3:A6:477:PHE:HB2	1.56	1.11
2:A4:772:SER:O	3:A6:489:LEU:CD1	1.96	1.11
2:A4:782:VAL:CG2	6:D3:677:GLN:HA	1.76	1.11
2:A4:805:LEU:HD13	3:A6:469:PHE:CD2	1.84	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:OE1	6:D3:605:THR:OG1	1.67	1.11
2:A4:900:THR:O	3:A6:137:HIS:NE2	1.84	1.11
2:A4:984:ALA:HA	6:D3:498:GLU:OE2	1.49	1.11
2:A4:1151:THR:CA	5:C4:733:LEU:HA	1.67	1.11
6:D6:804:SER:CB	22:T3:764:PHE:HE2	1.52	1.11
6:D7:534:LEU:CD1	11:I3:181:GLN:O	1.99	1.11
8:F2:1088:GLU:OE1	17:O4:247:TRP:O	1.68	1.11
9:G2:255:LEU:CD1	17:O4:262:ASP:OD1	1.98	1.11
11:I1:881:ILE:N	17:O1:249:ARG:HB3	1.39	1.11
11:I1:888:GLU:HB2	17:O1:242:ARG:HH12	1.06	1.11
11:I1:912:VAL:N	15:M1:584:GLN:NE2	1.98	1.11
11:I1:982:GLN:CB	15:M1:621:ARG:HH22	1.48	1.11
11:I1:1013:GLU:HA	16:N1:411:GLN:OE1	1.51	1.11
11:I1:1020:ALA:CB	16:N1:406:HIS:C	2.18	1.11
11:I1:1021:ILE:N	16:N1:406:HIS:O	1.70	1.11
11:I1:1037:THR:CG2	20:R1:169:GLY:HA2	1.71	1.11
11:I1:1066:LEU:H	16:N1:430:ARG:CD	1.63	1.11
11:I1:1103:LEU:HD11	20:R1:175:GLN:CG	1.74	1.11
11:I1:1107:SER:OG	16:N1:436:ALA:O	1.67	1.11
11:I1:1610:VAL:CG2	11:I2:1673:VAL:HG11	1.81	1.11
11:I2:881:ILE:HG22	17:O3:249:ARG:HG2	1.18	1.11
11:I2:899:LEU:HD23	17:O3:235:ASN:CG	1.70	1.11
11:I2:911:PRO:HB3	15:M3:584:GLN:NE2	1.52	1.11
11:I2:995:SER:HA	17:O3:267:ALA:HB3	1.12	1.11
1:A1:874:VAL:HG11	6:D3:272:VAL:O	1.49	1.10
1:A1:1331:GLU:OE1	2:A2:857:LYS:HE2	0.93	1.10
2:A2:980:ARG:HG2	6:D1:473:GLU:HG3	1.33	1.10
2:A2:1143:LEU:HB2	3:A5:130:ILE:O	1.43	1.10
1:A3:1201:ARG:CB	3:A6:546:ASN:HD21	1.56	1.10
1:A3:1204:TRP:HB3	2:A4:731:ILE:CG2	1.80	1.10
1:A3:1223:GLU:HB3	2:A4:676:LEU:HD11	1.19	1.10
2:A4:86:ASN:CA	3:A6:394:LEU:N	2.12	1.10
2:A4:173:ASN:HD22	6:D3:762:ARG:HB3	1.12	1.10
2:A4:672:ARG:HA	3:A6:508:LEU:HD11	1.29	1.10
2:A4:712:THR:CG2	3:A6:461:ALA:CB	2.29	1.10
2:A4:713:ILE:CB	3:A6:462:LEU:HD11	1.77	1.10
2:A4:774:VAL:HA	3:A6:467:LEU:HD12	1.23	1.10
2:A4:869:ALA:HB2	6:D3:583:ILE:HD13	1.24	1.10
3:A5:220:VAL:CG2	5:C2:738:ASP:O	1.99	1.10
3:A6:483:HIS:HB2	6:D3:675:ARG:CD	1.81	1.10
9:G1:258:LYS:H	17:O2:253:LEU:CA	1.63	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD22	1.22	1.10
11:I1:1739:GLU:C	11:I2:1604:ALA:HA	1.70	1.10
11:I2:1028:CYS:C	20:R3:173:LEU:N	1.90	1.10
11:I2:1110:SER:HB2	16:N3:438:LEU:H	0.98	1.10
17:O2:110:LEU:CD2	18:P2:321:ILE:C	2.06	1.10
1:A1:1204:TRP:CZ3	2:A2:757:LEU:HD13	1.85	1.10
2:A2:200:VAL:N	4:B2:352:ALA:O	1.84	1.10
2:A2:223:THR:OG1	6:D1:709:ARG:NH2	1.84	1.10
2:A2:874:VAL:CG2	6:D1:611:LYS:HG2	1.79	1.10
2:A2:980:ARG:HG3	6:D1:526:LEU:N	1.66	1.10
2:A2:986:THR:HG22	6:D1:504:LYS:HD3	1.17	1.10
1:A3:1054:SER:OG	6:D3:810:ARG:HA	1.51	1.10
1:A3:1189:LEU:CD1	3:A6:579:PHE:CE1	1.79	1.10
2:A4:677:ALA:N	3:A6:98:LEU:CA	2.04	1.10
2:A4:824:ASN:HD22	3:A6:158:ALA:HB3	1.01	1.10
2:A4:925:LYS:NZ	3:A6:233:THR:HA	1.64	1.10
2:A4:976:LEU:HD22	6:D3:472:PHE:CD2	1.84	1.10
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB2	1.15	1.10
3:A5:1365:VAL:CG2	28:Z2:838:GLN:O	1.98	1.10
3:A6:1403:MSE:HG2	26:X4:742:ALA:C	1.70	1.10
11:I1:1104:LEU:CB	16:N1:436:ALA:CB	2.29	1.10
11:I2:950:LEU:CD1	16:N3:410:MET:HB2	1.72	1.10
11:I3:1267:LEU:CG	26:X1:529:TRP:CE3	2.34	1.10
11:I3:1267:LEU:HG	26:X1:529:TRP:CD2	1.86	1.10
2:A2:780:GLU:CB	6:D1:677:GLN:C	2.19	1.10
2:A2:1151:THR:CA	5:C2:733:LEU:HA	1.67	1.10
2:A2:1163:TYR:CE2	3:A5:136:GLU:OE2	2.04	1.10
1:A3:1186:TRP:CZ2	3:A6:637:THR:HG23	1.85	1.10
1:A3:1188:ASN:O	3:A6:645:PHE:CB	1.97	1.10
1:A3:1189:LEU:CD2	3:A6:644:ALA:HB3	1.82	1.10
1:A3:1198:GLU:HA	3:A6:682:ARG:NE	0.98	1.10
1:A3:1236:GLN:HA	3:A6:581:LYS:CB	1.61	1.10
1:A3:1266:GLY:N	3:A6:716:ASN:HD22	1.47	1.10
1:A3:1269:ALA:C	3:A6:554:GLN:HB3	1.71	1.10
2:A4:93:ASP:CB	3:A6:361:ASP:CB	1.93	1.10
2:A4:735:ALA:HB2	3:A6:682:ARG:HE	1.10	1.10
2:A4:778:PHE:CE1	3:A6:466:ALA:CB	2.33	1.10
2:A4:804:GLN:OE1	3:A6:317:GLY:HA3	1.51	1.10
3:A5:1312:ARG:NH2	28:Z2:832:PHE:CB	2.14	1.10
3:A5:1365:VAL:HA	28:Z2:841:ALA:CA	1.81	1.10
3:A5:1411:ARG:NH2	26:X2:743:PHE:O	1.83	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1262:HIS:CE1	17:O2:259:ASP:CA	2.32	1.10
9:G1:270:ARG:HB2	16:N2:413:VAL:O	0.94	1.10
11:I1:846:ILE:CB	15:M1:594:LYS:HD2	1.80	1.10
11:I1:980:ILE:HB	15:M1:618:GLN:C	1.70	1.10
11:I1:1038:ILE:CD1	15:M1:620:VAL:CG1	2.03	1.10
11:I2:880:MET:HA	17:O3:247:TRP:HA	1.29	1.10
11:I2:931:VAL:HB	15:M3:600:ASN:O	1.50	1.10
11:I2:950:LEU:HD13	16:N3:410:MET:HB2	1.24	1.10
11:I2:984:GLU:OE2	15:M3:618:GLN:HB2	1.44	1.10
17:O3:102:LYS:HG2	18:P3:322:LYS:HE3	1.25	1.10
17:O3:158:GLU:O	18:P3:315:GLU:CD	1.90	1.10
21:S1:686:ALA:HA	21:S2:1152:VAL:CB	1.81	1.10
1:A1:874:VAL:HG21	6:D3:272:VAL:CG1	1.74	1.10
1:A1:1204:TRP:CD1	2:A2:645:PHE:CE1	2.40	1.10
2:A2:968:SER:HA	6:D1:202:GLN:N	1.65	1.10
2:A2:1151:THR:HG23	5:C2:734:VAL:H	1.04	1.10
1:A3:1188:ASN:N	3:A6:723:PHE:CZ	2.18	1.10
1:A3:1230:TYR:CD2	3:A6:575:LEU:HD11	1.77	1.10
2:A4:684:VAL:CB	3:A6:395:MET:SD	2.39	1.10
2:A4:771:ILE:CD1	3:A6:476:PHE:CE2	2.34	1.10
2:A4:789:LEU:HD23	3:A6:146:LYS:CB	1.69	1.10
2:A4:827:ILE:HA	6:D3:606:LYS:HB3	1.20	1.10
2:A4:892:SER:HA	3:A6:232:LEU:H	1.16	1.10
2:A4:911:TYR:CE2	6:D3:555:ARG:NH2	2.20	1.10
2:A4:978:ASP:O	6:D3:475:ALA:HB3	1.52	1.10
2:A4:1114:ILE:HD11	5:C4:731:LYS:CG	1.80	1.10
3:A5:1026:PRO:O	11:I5:67:LYS:HA	1.48	1.10
3:A6:1385:GLU:OE1	28:Z4:903:ASN:O	1.70	1.10
3:A6:1398:LYS:NZ	28:Z4:921:THR:CB	2.15	1.10
9:G1:255:LEU:HD12	17:O2:257:ALA:CB	1.80	1.10
11:I1:797:LEU:CD2	17:O1:245:GLU:HG3	1.79	1.10
11:I1:983:LEU:HD11	15:M1:604:ASN:CG	1.60	1.10
11:I1:1038:ILE:O	15:M1:620:VAL:CG2	2.00	1.10
11:I1:1047:CYS:O	20:R1:143:PHE:CE1	2.05	1.10
11:I1:1665:LEU:HD23	11:I2:1667:GLN:O	1.52	1.10
11:I4:1276:GLN:OE1	26:X3:520:GLU:HG3	1.45	1.10
1:A1:870:HIS:O	6:D3:279:HIS:CB	1.99	1.10
1:A1:1221:ILE:CG2	2:A2:642:ARG:C	2.18	1.10
2:A2:870:HIS:CD2	6:D1:566:PHE:CE1	2.39	1.10
2:A2:870:HIS:CE1	6:D1:566:PHE:CB	2.34	1.10
1:A3:1260:ALA:HB3	3:A6:719:ARG:NH2	1.57	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1325:MET:CE	3:A6:126:ARG:NE	2.14	1.10
2:A4:682:ARG:HB3	3:A6:432:VAL:O	1.50	1.10
2:A4:701:ILE:HB	3:A6:466:ALA:HB2	1.30	1.10
2:A4:753:GLU:CG	3:A6:93:ASP:O	1.99	1.10
2:A4:761:GLN:CD	3:A6:545:GLY:O	1.89	1.10
2:A4:909:LYS:CG	6:D3:555:ARG:NH1	2.00	1.10
3:A5:146:LYS:HB3	5:C2:745:SER:O	1.51	1.10
3:A6:520:GLU:CD	6:D3:681:ALA:HB2	1.70	1.10
11:I1:846:ILE:CG2	17:O1:247:TRP:HZ2	1.56	1.10
11:I1:937:TYR:O	17:O1:257:ALA:O	1.70	1.10
11:I1:952:LEU:C	16:N1:400:LEU:HD23	1.70	1.10
11:I1:957:SER:CB	20:R1:168:LEU:HG	1.81	1.10
11:I1:1042:LEU:O	16:N1:430:ARG:HD2	1.51	1.10
11:I2:956:ILE:O	20:R3:166:LEU:HD13	1.26	1.10
11:I2:990:GLU:CB	17:O3:272:SER:HA	1.80	1.10
11:I2:1100:ILE:HG23	16:N3:433:GLU:OE1	0.94	1.10
11:I2:1105:TRP:HB2	16:N3:439:ARG:NH2	1.39	1.10
11:I2:1186:PRO:HG3	17:O4:225:GLN:NE2	0.77	1.10
11:I4:1273:GLU:HB3	26:X3:524:SER:CB	1.82	1.10
11:I4:1279:THR:HG21	26:X3:520:GLU:HB3	1.10	1.10
11:I5:536:GLU:C	25:W2:8:HIS:N	2.05	1.10
18:P1:279:GLY:HA2	18:P4:326:GLN:NE2	1.52	1.10
2:A2:225:THR:HG21	6:D1:706:HIS:HB3	1.22	1.09
2:A2:780:GLU:N	6:D1:679:ILE:H	1.49	1.09
2:A2:975:GLU:N	6:D1:499:LEU:CG	2.11	1.09
1:A3:1197:ALA:HB1	2:A4:728:LYS:CG	1.82	1.09
1:A3:1203:TYR:HA	3:A6:91:LEU:HD12	1.33	1.09
1:A3:1255:LEU:HB2	3:A6:634:ASP:OD2	1.52	1.09
2:A4:92:ASP:OD1	3:A6:104:PRO:HA	1.51	1.09
2:A4:717:VAL:CG2	3:A6:403:ARG:HH22	1.64	1.09
2:A4:754:HIS:CE1	3:A6:685:ARG:NH1	2.18	1.09
2:A4:788:ARG:HB2	3:A6:145:THR:OG1	1.51	1.09
2:A4:852:ASP:N	3:A6:170:THR:N	1.81	1.09
2:A4:859:GLN:HG3	3:A6:176:LEU:HD21	1.24	1.09
2:A4:870:HIS:CG	6:D3:566:PHE:CD1	2.39	1.09
2:A4:875:LEU:O	6:D3:567:LEU:HG	1.37	1.09
3:A5:1050:TYR:OH	11:I5:70:GLU:HB2	1.52	1.09
8:F1:1137:GLN:CG	17:O2:248:SER:CA	2.28	1.09
11:I1:896:PRO:CD	17:O1:233:THR:HA	1.81	1.09
11:I1:923:GLY:H	15:M1:592:LEU:HB3	1.05	1.09
11:I1:963:LEU:HD21	20:R1:176:ARG:HH22	1.03	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1056:PRO:CB	17:O1:278:GLU:HG2	1.81	1.09
11:I1:1114:VAL:CG2	16:N1:432:TYR:O	1.99	1.09
11:I2:917:TYR:HD2	15:M3:587:GLU:O	1.04	1.09
11:I2:942:HIS:HB3	17:O3:259:ASP:CB	1.82	1.09
11:I2:1015:TYR:CB	16:N3:412:ASN:OD1	2.00	1.09
11:I3:1270:LYS:CE	26:X1:530:ARG:CG	2.19	1.09
17:O4:110:LEU:HB3	18:P4:321:ILE:CB	1.82	1.09
17:O4:112:GLY:O	18:P4:325:ILE:HG21	1.50	1.09
1:A1:870:HIS:CD2	6:D3:280:GLN:HA	1.86	1.09
2:A2:876:ARG:HD3	6:D1:558:LYS:HA	1.23	1.09
2:A2:1151:THR:O	3:A5:175:GLU:CG	2.01	1.09
2:A2:1151:THR:CG2	5:C2:734:VAL:H	1.43	1.09
2:A2:1151:THR:HG21	5:C2:734:VAL:HB	1.10	1.09
1:A3:1231:VAL:HG22	3:A6:613:ALA:HA	1.11	1.09
1:A3:1249:PHE:CG	3:A6:633:MET:SD	2.45	1.09
1:A3:1273:ALA:N	3:A6:554:GLN:CG	1.73	1.09
1:A3:1306:PRO:HB3	3:A6:715:GLU:CB	1.82	1.09
2:A4:173:ASN:ND2	6:D3:762:ARG:C	2.04	1.09
2:A4:767:ILE:C	3:A6:476:PHE:HA	1.64	1.09
2:A4:788:ARG:HA	3:A6:144:PHE:HA	1.11	1.09
2:A4:789:LEU:HD23	3:A6:146:LYS:CA	1.83	1.09
2:A4:909:LYS:HG3	6:D3:552:TYR:CD2	1.74	1.09
2:A4:949:PHE:HB3	4:B6:348:PRO:HD3	1.11	1.09
3:A6:446:LEU:HD12	6:D3:721:PRO:HA	1.22	1.09
4:B5:344:ALA:CB	5:C2:737:LYS:CD	2.20	1.09
6:D6:797:GLY:O	22:T3:768:ASN:N	1.65	1.09
8:F1:1261:TYR:O	17:O2:263:GLN:N	1.85	1.09
11:I1:841:PHE:HB3	15:M1:588:MET:HB2	1.26	1.09
11:I1:931:VAL:HG22	15:M1:604:ASN:N	1.67	1.09
11:I1:1029:LEU:HD12	20:R1:171:ALA:HA	1.23	1.09
11:I1:1037:THR:HA	15:M1:624:ASN:CG	1.72	1.09
11:I1:1056:PRO:O	17:O1:277:GLU:O	1.67	1.09
11:I1:1662:ARG:CD	11:I2:1603:ARG:NH1	2.01	1.09
11:I1:1667:GLN:O	11:I2:1665:LEU:HD23	1.50	1.09
11:I1:1739:GLU:HB3	11:I2:1540:LYS:HE2	1.23	1.09
11:I2:925:LEU:CD1	20:R3:156:GLY:H	1.65	1.09
11:I2:952:LEU:HD13	17:O3:250:LEU:HD12	1.12	1.09
11:I2:952:LEU:HD11	17:O3:250:LEU:HD11	1.20	1.09
11:I2:976:ARG:CZ	20:R3:143:PHE:O	1.99	1.09
17:O3:162:LYS:HG3	18:P3:315:GLU:OE1	1.50	1.09
18:P1:276:SER:HB3	18:P4:322:LYS:HE2	1.27	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:779:ASP:H	6:D1:678:GLY:HA2	1.15	1.09
2:A2:1143:LEU:N	3:A5:129:ASN:HB3	1.66	1.09
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG13	1.17	1.09
1:A3:1052:THR:HG22	6:D3:815:GLU:N	1.62	1.09
1:A3:1118:GLN:HB2	3:A6:592:ASP:OD1	1.53	1.09
1:A3:1158:ALA:O	3:A6:647:GLU:CB	2.00	1.09
1:A3:1170:ILE:CA	3:A6:591:ASP:N	2.14	1.09
1:A3:1224:PRO:CB	3:A6:548:LEU:HD12	1.81	1.09
1:A3:1237:LEU:HD23	3:A6:119:TRP:HE1	0.97	1.09
2:A4:89:LEU:HD12	3:A6:406:LEU:HD12	1.20	1.09
2:A4:647:GLU:HB2	3:A6:503:GLN:HG2	1.14	1.09
2:A4:682:ARG:CB	3:A6:432:VAL:O	2.01	1.09
2:A4:762:LYS:HB2	3:A6:472:SER:HB2	1.11	1.09
2:A4:792:VAL:HG21	3:A6:248:VAL:HB	1.26	1.09
2:A4:806:PHE:HB3	3:A6:382:SER:OG	1.41	1.09
2:A4:952:ARG:HG3	4:B6:347:LEU:HD21	1.16	1.09
2:A4:975:GLU:CB	6:D3:499:LEU:HB2	1.81	1.09
2:A4:986:THR:CG2	6:D3:504:LYS:HG3	1.62	1.09
3:A5:234:LEU:HA	5:C2:738:ASP:HA	1.31	1.09
3:A5:1098:ARG:CZ	11:I5:29:GLN:CG	2.19	1.09
3:A5:1391:ARG:CB	28:Z2:871:HIS:H	1.63	1.09
3:A5:1395:LYS:HB3	28:Z2:873:LEU:CB	1.65	1.09
3:A5:1398:LYS:CB	28:Z2:873:LEU:O	1.99	1.09
6:D7:531:LEU:H	11:I3:181:GLN:HG2	1.15	1.09
8:F1:1266:MET:HG3	17:O2:262:ASP:OD2	0.94	1.09
9:G1:258:LYS:CB	17:O2:253:LEU:HD23	1.75	1.09
11:I1:843:GLU:HG2	15:M1:587:GLU:CD	1.72	1.09
11:I1:883:ALA:HB2	17:O1:243:LEU:C	1.66	1.09
11:I1:899:LEU:HD12	17:O1:233:THR:N	1.52	1.09
11:I2:896:PRO:CA	17:O3:232:LYS:O	1.99	1.09
11:I2:951:LYS:HE3	16:N3:400:LEU:O	0.92	1.09
11:I2:981:VAL:N	20:R3:147:LEU:HD21	1.66	1.09
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB3	1.35	1.09
21:S3:596:ILE:N	21:S4:1119:LEU:HD12	1.66	1.09
1:A1:834:GLU:HB3	6:D3:302:PRO:HG3	1.33	1.09
1:A1:874:VAL:HG21	6:D3:272:VAL:HG12	1.11	1.09
1:A1:874:VAL:HG22	6:D3:272:VAL:CG1	1.73	1.09
2:A2:980:ARG:CG	6:D1:473:GLU:HG3	1.79	1.09
2:A2:1094:ILE:HG21	6:D2:759:GLN:HB3	1.34	1.09
2:A2:1132:PRO:HD3	3:A5:160:ILE:HG23	1.12	1.09
1:A3:1098:ARG:HD2	11:I2:1414:CYS:HB2	1.10	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1227:PRO:HG3	3:A6:682:ARG:CD	1.82	1.09
1:A3:1278:PRO:HG2	3:A6:624:ASP:OD2	1.50	1.09
2:A4:87:GLN:HG3	3:A6:393:HIS:ND1	1.52	1.09
2:A4:536:ALA:N	3:A6:368:SER:C	1.77	1.09
2:A4:702:SER:HB3	3:A6:399:ASP:HB3	1.25	1.09
2:A4:774:VAL:HG13	3:A6:467:LEU:HG	1.30	1.09
2:A4:774:VAL:HG12	3:A6:479:VAL:HB	1.22	1.09
2:A4:778:PHE:H	3:A6:481:ARG:NH1	1.41	1.09
2:A4:778:PHE:HB3	6:D3:675:ARG:O	1.50	1.09
2:A4:855:THR:CG2	3:A6:168:ASP:C	2.21	1.09
2:A4:970:PHE:CA	6:D3:202:GLN:CG	2.29	1.09
3:A5:1033:GLN:NE2	11:I5:70:GLU:HB3	1.54	1.09
3:A5:1094:ILE:HG13	11:I5:4:LEU:HD12	1.12	1.09
3:A5:1367:THR:O	28:Z2:825:TYR:O	1.69	1.09
3:A5:1369:ILE:HD11	28:Z2:832:PHE:N	1.68	1.09
9:G1:266:ASP:HA	16:N2:412:ASN:HA	1.28	1.09
11:I1:917:TYR:CE1	15:M1:586:ASP:O	2.06	1.09
11:I1:962:ILE:HG22	20:R1:166:LEU:HG	1.30	1.09
11:I1:1021:ILE:HD12	16:N1:410:MET:HA	1.26	1.09
11:I2:881:ILE:HG22	17:O3:249:ARG:CG	1.82	1.09
11:I2:947:LEU:HD12	17:O3:260:LEU:HD22	1.27	1.09
11:I2:1020:ALA:HB2	16:N3:407:ALA:C	1.71	1.09
2:A2:988:ARG:CA	6:D1:500:LYS:HZ3	1.66	1.09
2:A2:1159:ASP:CB	3:A5:176:LEU:O	2.01	1.09
1:A3:1186:TRP:O	3:A6:618:ALA:CA	2.00	1.09
1:A3:1186:TRP:O	3:A6:641:ALA:HB3	1.53	1.09
1:A3:1225:PRO:CD	3:A6:548:LEU:CD1	2.10	1.09
1:A3:1232:SER:HB2	3:A6:574:ARG:O	1.52	1.09
1:A3:1254:LEU:CG	3:A6:638:GLU:HG3	1.82	1.09
2:A4:547:GLU:N	3:A6:366:ALA:HB3	1.66	1.09
2:A4:670:SER:H	3:A6:542:LEU:CD2	1.64	1.09
2:A4:688:TRP:CZ3	3:A6:382:SER:HB3	1.88	1.09
2:A4:714:GLN:O	3:A6:491:VAL:C	1.92	1.09
2:A4:778:PHE:CB	3:A6:487:ASP:OD1	2.00	1.09
2:A4:985:ALA:O	6:D3:500:LYS:CD	2.01	1.09
2:A4:989:MSE:HE1	6:D3:242:LEU:N	1.55	1.09
3:A5:1098:ARG:HD2	11:I5:29:GLN:NE2	1.68	1.09
11:I1:921:GLU:OE2	16:N1:392:THR:O	1.69	1.09
11:I1:931:VAL:CG2	15:M1:604:ASN:H	1.65	1.09
11:I1:934:LEU:O	15:M1:606:LEU:HB2	1.49	1.09
11:I1:1107:SER:CB	16:N1:440:GLU:OE1	1.99	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1607:GLN:OE1	11:I2:1735:PHE:O	1.71	1.09
11:I1:1665:LEU:HD12	11:I2:1667:GLN:HE21	1.06	1.09
11:I2:879:VAL:C	17:O3:249:ARG:N	1.88	1.09
11:I2:887:GLN:HB2	16:N3:393:ILE:HG12	1.31	1.09
11:I2:900:ARG:HA	17:O3:232:LYS:HE2	1.27	1.09
11:I2:1018:LYS:N	16:N3:409:ALA:O	1.84	1.09
11:I2:1106:LYS:HB2	16:N3:440:GLU:CD	1.73	1.09
11:I4:813:ILE:HD11	26:X3:496:THR:HG21	1.15	1.09
11:I4:819:MET:CB	26:X3:501:LYS:HZ3	1.65	1.09
11:I4:1270:LYS:HD2	26:X3:527:VAL:HB	1.35	1.09
21:S2:1032:ILE:HD11	21:S2:1054:LEU:HB2	1.26	1.09
1:A1:874:VAL:HG22	6:D3:272:VAL:CB	1.82	1.08
2:A2:983:LEU:CB	6:D1:553:PHE:HB3	1.83	1.08
1:A3:1196:GLU:O	3:A6:609:GLU:CG	1.99	1.08
1:A3:1231:VAL:CG2	3:A6:613:ALA:HA	1.82	1.08
1:A3:1245:ASP:HB3	3:A6:587:VAL:HG12	1.34	1.08
1:A3:1270:SER:OG	3:A6:553:ASP:CA	1.99	1.08
2:A4:533:ALA:HB1	3:A6:370:PRO:HG3	1.25	1.08
2:A4:607:ARG:O	3:A6:506:SER:HA	0.91	1.08
2:A4:642:ARG:HE	3:A6:501:VAL:CG2	1.66	1.08
2:A4:678:LEU:CD2	3:A6:431:PHE:CD2	2.35	1.08
2:A4:857:LYS:NZ	3:A6:129:ASN:ND2	2.00	1.08
2:A4:860:GLU:CB	3:A6:130:ILE:O	2.01	1.08
2:A4:867:GLU:H	6:D3:605:THR:HG22	1.08	1.08
2:A4:889:VAL:HG22	3:A6:174:PRO:HA	1.34	1.08
2:A4:954:ILE:HB	4:B6:345:LYS:CA	1.68	1.08
2:A4:970:PHE:C	6:D3:202:GLN:CG	2.20	1.08
2:A4:1019:ARG:CZ	6:D3:237:PRO:O	2.01	1.08
3:A5:1028:VAL:C	11:I5:67:LYS:HB3	1.68	1.08
3:A5:1310:ARG:HH21	28:Z2:827:GLN:HA	1.07	1.08
3:A5:1391:ARG:HB3	28:Z2:871:HIS:H	1.08	1.08
3:A5:1398:LYS:CD	28:Z2:873:LEU:O	2.00	1.08
9:G2:254:ASN:HB2	17:O4:265:ASN:ND2	1.69	1.08
11:I1:934:LEU:HA	15:M1:602:MET:HE3	1.21	1.08
11:I1:939:ASN:ND2	17:O1:265:ASN:OD1	1.80	1.08
11:I1:976:ARG:CB	20:R1:149:ARG:CB	2.26	1.08
11:I1:1055:GLU:HG2	17:O1:280:GLU:CB	1.82	1.08
11:I1:1066:LEU:HB2	16:N1:430:ARG:HD3	1.16	1.08
11:I2:948:ALA:HB1	17:O3:253:LEU:HA	1.13	1.08
11:I2:966:TRP:CZ3	20:R3:167:GLN:HG2	1.84	1.08
11:I2:990:GLU:O	17:O3:272:SER:N	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1051:LYS:HZ3	17:O3:285:LYS:HD2	1.12	1.08
11:I2:1055:GLU:C	17:O3:278:GLU:HA	1.72	1.08
11:I3:1271:GLU:C	26:X1:525:ILE:CG2	2.09	1.08
11:I5:1275:SER:C	26:X2:521:TRP:CD1	2.25	1.08
21:S1:666:THR:C	21:S2:1146:ALA:O	1.75	1.08
1:A1:1201:ARG:HD3	2:A2:734:LEU:HD23	1.22	1.08
2:A2:867:GLU:HB3	6:D1:609:ILE:HD11	1.25	1.08
2:A2:870:HIS:HD2	6:D1:551:PHE:HB2	0.94	1.08
2:A2:1151:THR:HG21	5:C2:734:VAL:CB	1.81	1.08
1:A3:1021:LEU:CB	6:D3:816:VAL:HG13	1.76	1.08
1:A3:1121:LEU:C	3:A6:599:ARG:HH22	1.53	1.08
1:A3:1223:GLU:HB2	2:A4:676:LEU:HD12	1.12	1.08
1:A3:1229:VAL:HG22	3:A6:574:ARG:CA	1.82	1.08
2:A4:642:ARG:HG3	3:A6:501:VAL:HB	1.25	1.08
2:A4:670:SER:N	3:A6:542:LEU:HD11	1.69	1.08
2:A4:692:VAL:CG1	3:A6:467:LEU:HA	1.82	1.08
2:A4:701:ILE:CD1	3:A6:466:ALA:H	1.60	1.08
2:A4:802:TYR:CZ	3:A6:397:LEU:HD23	1.87	1.08
2:A4:808:GLN:HG3	3:A6:383:PRO:HG2	1.33	1.08
2:A4:897:ASN:HA	3:A6:165:PHE:HB3	1.16	1.08
2:A4:950:ASP:OD1	4:B6:348:PRO:CA	1.84	1.08
2:A4:989:MSE:HE2	6:D3:240:ASP:CG	1.74	1.08
3:A5:1359:LEU:CB	28:Z2:878:HIS:N	2.14	1.08
3:A6:520:GLU:CB	6:D3:639:LEU:HD12	1.83	1.08
3:A6:1389:SER:HB2	28:Z4:907:LEU:HA	1.22	1.08
3:A6:1411:ARG:NH1	26:X4:689:ALA:HB2	1.02	1.08
8:F1:1261:TYR:CG	17:O2:263:GLN:HB2	1.88	1.08
9:G1:258:LYS:N	17:O2:253:LEU:HA	1.68	1.08
11:I1:888:GLU:CB	17:O1:242:ARG:HH12	1.65	1.08
11:I1:955:LYS:HE3	16:N1:397:GLU:CA	1.81	1.08
11:I1:960:SER:HB2	16:N1:395:GLU:OE2	1.53	1.08
11:I1:983:LEU:HD12	15:M1:621:ARG:HH21	1.17	1.08
11:I1:1033:PRO:HB3	20:R1:174:ARG:O	1.50	1.08
11:I1:1041:GLN:HB2	15:M1:620:VAL:H	1.07	1.08
11:I1:1667:GLN:HE21	11:I2:1665:LEU:CD1	1.66	1.08
11:I2:850:ILE:CG2	15:M3:598:GLU:CG	2.30	1.08
11:I2:881:ILE:HB	17:O3:249:ARG:O	0.91	1.08
11:I2:899:LEU:HG	17:O3:235:ASN:N	1.67	1.08
11:I2:966:TRP:HA	20:R3:154:ALA:N	1.68	1.08
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD13	1.28	1.08
21:S1:660:LEU:CB	21:S2:1102:VAL:HG21	1.81	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1155:ASN:CG	3:A5:175:GLU:HG3	1.72	1.08
1:A3:1194:HIS:HB2	3:A6:616:ALA:HB2	1.32	1.08
1:A3:1199:GLN:N	2:A4:729:SER:O	1.85	1.08
2:A4:763:LEU:HG	3:A6:470:ARG:CD	1.76	1.08
2:A4:825:ARG:HB2	3:A6:138:LEU:CD1	1.84	1.08
2:A4:854:VAL:CG1	3:A6:173:ASN:C	2.22	1.08
2:A4:868:GLN:HA	6:D3:570:VAL:HG11	1.30	1.08
2:A4:893:LEU:HD22	3:A6:176:LEU:CA	1.82	1.08
2:A4:983:LEU:HB2	6:D3:528:PHE:CE2	1.89	1.08
2:A4:1151:THR:HG21	5:C4:734:VAL:CB	1.81	1.08
3:A5:160:ILE:HD11	5:C2:743:LEU:HD11	1.26	1.08
3:A5:1369:ILE:HG22	28:Z2:830:LEU:CB	1.77	1.08
3:A6:1403:MSE:HE2	28:Z4:964:LEU:CB	1.55	1.08
8:F1:1202:TYR:HB3	17:O2:252:VAL:HG22	1.33	1.08
9:G1:258:LYS:H	17:O2:253:LEU:HA	1.04	1.08
11:I1:837:MET:CE	17:O1:243:LEU:N	2.14	1.08
11:I1:843:GLU:HG2	15:M1:587:GLU:OE2	1.37	1.08
11:I1:846:ILE:HD13	15:M1:594:LYS:HB3	1.11	1.08
11:I1:887:GLN:HB2	16:N1:393:ILE:CD1	1.82	1.08
11:I1:899:LEU:CD2	17:O1:231:ASP:CG	2.20	1.08
11:I1:923:GLY:CA	15:M1:590:LYS:C	2.21	1.08
11:I1:935:GLY:N	15:M1:605:THR:OG1	1.85	1.08
11:I1:950:LEU:HB2	16:N1:407:ALA:CB	1.68	1.08
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD12	1.33	1.08
11:I1:1668:HIS:HB2	11:I2:1668:HIS:HB2	1.35	1.08
11:I2:895:ARG:HD2	17:O3:234:LEU:HB2	1.23	1.08
11:I2:898:VAL:HG23	17:O3:237:PRO:HD3	1.21	1.08
11:I2:900:ARG:CG	17:O3:232:LYS:HD3	1.82	1.08
11:I2:948:ALA:HB3	17:O3:257:ALA:H	1.12	1.08
11:I2:1017:VAL:C	16:N3:409:ALA:O	1.91	1.08
11:I2:1021:ILE:HG12	16:N3:410:MET:HE3	1.23	1.08
11:I2:1040:HIS:HB2	15:M3:619:ILE:HG22	1.10	1.08
11:I2:1052:LEU:CB	17:O3:283:ALA:HB1	1.78	1.08
15:M1:507:GLN:OE1	18:P1:318:PRO:HG3	1.53	1.08
21:S3:601:LEU:CB	21:S4:1156:ILE:CB	2.32	1.08
1:A1:1199:GLN:O	2:A2:730:THR:HA	1.30	1.08
2:A2:780:GLU:CB	6:D1:677:GLN:CB	2.31	1.08
2:A2:781:ARG:CD	6:D1:673:ARG:HH11	1.66	1.08
1:A3:1123:GLU:HG2	3:A6:599:ARG:HD3	1.09	1.08
1:A3:1231:VAL:HG13	3:A6:617:VAL:CG2	1.83	1.08
1:A3:1278:PRO:CB	3:A6:624:ASP:CA	2.27	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:690:ALA:HB2	3:A6:398:THR:HA	1.34	1.08
2:A4:691:LYS:HG3	3:A6:316:ARG:HD2	1.16	1.08
2:A4:717:VAL:HG22	3:A6:403:ARG:NH2	1.66	1.08
2:A4:874:VAL:CG2	6:D3:568:ARG:O	2.02	1.08
2:A4:975:GLU:O	6:D3:496:LEU:O	1.71	1.08
2:A4:1055:ARG:HD3	6:D4:762:ARG:C	1.73	1.08
3:A5:232:LEU:HD23	5:C2:738:ASP:N	1.68	1.08
11:I1:846:ILE:CA	15:M1:594:LYS:HD2	1.83	1.08
11:I1:1048:GLU:HG2	17:O1:284:LYS:O	1.50	1.08
11:I1:1052:LEU:C	17:O1:283:ALA:O	1.92	1.08
11:I1:1058:GLY:C	17:O1:277:GLU:CB	1.95	1.08
11:I2:837:MET:SD	17:O3:244:GLU:N	2.27	1.08
11:I2:874:LEU:O	17:O3:252:VAL:CA	2.02	1.08
11:I2:881:ILE:O	17:O3:249:ARG:HD3	1.35	1.08
11:I2:925:LEU:HD13	20:R3:156:GLY:H	0.92	1.08
11:I2:952:LEU:HD23	15:M3:602:MET:HB2	1.33	1.08
11:I2:962:ILE:HG23	20:R3:166:LEU:O	1.52	1.08
11:I2:966:TRP:HA	20:R3:154:ALA:H	0.94	1.08
11:I2:1109:LEU:CA	17:O3:290:TYR:OH	2.00	1.08
21:S1:597:ILE:HA	21:S2:1120:PRO:HD3	1.23	1.08
1:A1:873:PRO:CB	6:D3:218:LYS:HZ3	1.63	1.08
1:A1:1201:ARG:CD	2:A2:734:LEU:CD2	2.32	1.08
2:A2:781:ARG:CD	6:D1:673:ARG:HB3	1.83	1.08
2:A2:973:GLU:HB3	6:D1:205:LEU:HD22	1.16	1.08
1:A3:1021:LEU:CG	6:D3:816:VAL:HG13	1.83	1.08
1:A3:1196:GLU:CD	3:A6:611:ILE:H	1.56	1.08
1:A3:1388:ALA:HB3	3:A6:224:PRO:O	1.49	1.08
2:A4:537:ALA:CB	3:A6:367:ASP:O	2.01	1.08
2:A4:686:THR:HB	3:A6:398:THR:OG1	1.53	1.08
2:A4:692:VAL:HG12	3:A6:466:ALA:O	1.52	1.08
2:A4:711:VAL:CA	3:A6:490:PHE:CB	1.95	1.08
2:A4:730:THR:OG1	3:A6:609:GLU:HG2	1.47	1.08
2:A4:826:ASN:ND2	6:D3:633:LYS:CB	2.16	1.08
3:A5:186:ILE:CB	5:C2:744:PHE:O	2.00	1.08
3:A5:996:ASN:HB2	11:I5:56:ARG:O	1.51	1.08
3:A5:1363:ASP:N	28:Z2:875:LEU:CB	2.14	1.08
3:A5:1392:ARG:NH1	28:Z2:867:LYS:N	2.02	1.08
3:A6:444:ARG:NE	6:D3:733:ALA:HB1	1.67	1.08
3:A6:1403:MSE:SE	28:Z4:964:LEU:C	2.42	1.08
8:F1:1262:HIS:CG	17:O2:259:ASP:HA	1.89	1.08
11:I1:797:LEU:CD1	17:O1:245:GLU:HA	1.81	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:884:LEU:CD1	16:N1:400:LEU:CD1	2.32	1.08
11:I1:950:LEU:HB2	16:N1:407:ALA:HB2	1.35	1.08
11:I1:1071:LEU:N	16:N1:429:GLU:HG3	1.69	1.08
11:I2:895:ARG:HA	17:O3:236:ASP:N	1.64	1.08
11:I2:911:PRO:HB2	15:M3:584:GLN:HE21	1.05	1.08
11:I2:949:CYS:HB3	15:M3:606:LEU:HB2	1.36	1.08
11:I2:952:LEU:CD1	17:O3:250:LEU:HD13	1.80	1.08
11:I2:977:ASN:HB2	20:R3:150:ASN:HB3	1.29	1.08
11:I2:1046:HIS:CB	17:O3:280:GLU:C	2.22	1.08
11:I2:1058:GLY:CA	17:O3:277:GLU:CA	2.32	1.08
1:A1:1204:TRP:CD1	2:A2:645:PHE:HE1	1.71	1.07
2:A2:858:ALA:O	6:D1:606:LYS:HE3	1.52	1.07
1:A3:1197:ALA:CB	2:A4:728:LYS:HG3	1.82	1.07
1:A3:1203:TYR:HA	3:A6:91:LEU:CD1	1.78	1.07
1:A3:1261:TYR:CZ	3:A6:621:GLN:HG3	1.88	1.07
2:A4:549:ALA:CA	3:A6:105:GLY:C	2.08	1.07
2:A4:760:LEU:HD12	3:A6:388:GLU:HG2	1.18	1.07
2:A4:777:LEU:HB3	3:A6:481:ARG:HH12	1.05	1.07
2:A4:872:ALA:HB3	6:D3:565:MET:HE1	1.31	1.07
2:A4:879:LEU:HB2	6:D3:564:ASN:HB2	1.21	1.07
11:I1:873:ILE:HG23	17:O1:254:ARG:HD2	1.30	1.07
11:I1:882:LYS:HB2	17:O1:245:GLU:O	1.50	1.07
11:I1:919:ALA:HB3	16:N1:392:THR:OG1	1.53	1.07
11:I1:925:LEU:HB3	20:R1:164:PRO:O	1.53	1.07
11:I1:982:GLN:HB3	15:M1:621:ARG:NH2	1.20	1.07
11:I2:898:VAL:HG22	17:O3:237:PRO:HD3	1.34	1.07
11:I2:899:LEU:CG	17:O3:235:ASN:H	1.67	1.07
11:I2:990:GLU:O	17:O3:271:GLU:HG2	1.50	1.07
11:I2:1017:VAL:HG22	16:N3:411:GLN:HA	1.31	1.07
11:I2:1037:THR:HG21	20:R3:169:GLY:HA2	1.12	1.07
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB2	1.81	1.07
11:I3:1278:ALA:N	26:X1:519:ILE:CB	2.15	1.07
11:I4:1273:GLU:HB3	26:X3:524:SER:HB3	1.09	1.07
17:O4:112:GLY:HA3	18:P1:278:ASN:CB	1.82	1.07
21:S1:1032:ILE:HD11	21:S1:1054:LEU:HB2	1.26	1.07
1:A1:834:GLU:HB2	6:D3:302:PRO:CB	1.83	1.07
1:A1:1201:ARG:NE	2:A2:734:LEU:HB3	1.60	1.07
2:A2:981:PRO:HG2	6:D1:504:LYS:HG3	1.34	1.07
2:A2:982:THR:CG2	6:D1:494:LEU:CA	2.28	1.07
2:A2:1155:ASN:OD1	3:A5:175:GLU:OE2	1.72	1.07
1:A3:1189:LEU:HD23	3:A6:644:ALA:HB3	1.11	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:CB	3:A6:578:ILE:HB	1.84	1.07
1:A3:1392:ARG:CB	3:A6:225:THR:CB	2.20	1.07
2:A4:84:VAL:HG12	3:A6:392:LEU:HB2	1.33	1.07
2:A4:546:ASN:ND2	3:A6:365:MET:HE3	1.68	1.07
2:A4:635:ARG:CZ	3:A6:600:LYS:HA	1.78	1.07
2:A4:679:TYR:CD2	3:A6:510:TYR:CD1	2.33	1.07
2:A4:710:LEU:HA	3:A6:478:ASP:OD2	1.30	1.07
2:A4:711:VAL:N	3:A6:462:LEU:HD22	1.64	1.07
2:A4:727:ASN:OD1	3:A6:605:TYR:HA	1.49	1.07
2:A4:727:ASN:OD1	3:A6:605:TYR:O	1.72	1.07
2:A4:780:GLU:HG2	6:D3:679:ILE:CG1	1.57	1.07
2:A4:867:GLU:CD	6:D3:605:THR:OG1	1.93	1.07
2:A4:878:LEU:HD22	6:D3:607:PRO:HG2	1.12	1.07
2:A4:975:GLU:CB	6:D3:501:LEU:HB2	1.82	1.07
2:A4:976:LEU:HD21	6:D3:245:ARG:NH1	1.69	1.07
3:A5:1385:GLU:OE2	28:Z2:863:ASP:CB	2.02	1.07
3:A6:443:ILE:H	6:D3:691:LEU:HD11	0.98	1.07
8:F2:1090:PRO:CB	17:O4:245:GLU:OE2	2.02	1.07
9:G2:263:MET:SD	17:O4:263:GLN:CB	2.42	1.07
11:I1:840:LEU:HG	17:O1:244:GLU:HG2	1.28	1.07
11:I1:921:GLU:HB3	15:M1:596:ILE:CD1	1.85	1.07
11:I1:1021:ILE:CD1	16:N1:410:MET:HB2	1.79	1.07
11:I1:1021:ILE:CA	16:N1:406:HIS:ND1	2.17	1.07
11:I1:1609:GLY:CA	12:J2:295:TYR:CE1	2.34	1.07
11:I2:883:ALA:CB	17:O3:243:LEU:O	2.02	1.07
11:I2:977:ASN:HB3	20:R3:147:LEU:CA	1.84	1.07
11:I2:1064:LYS:O	17:O3:274:GLY:CA	2.01	1.07
11:I3:1271:GLU:N	26:X1:529:TRP:H	1.50	1.07
15:M3:483:LYS:NZ	16:N4:327:LYS:HE3	1.69	1.07
17:O1:104:ASP:OD2	18:P1:322:LYS:CE	2.02	1.07
1:A1:868:GLN:HA	6:D3:280:GLN:HG2	1.28	1.07
1:A1:1222:ALA:HB2	2:A2:615:LEU:CD1	1.73	1.07
2:A2:1144:ASP:N	3:A5:129:ASN:CB	2.16	1.07
1:A3:1189:LEU:HD13	3:A6:614:ALA:HA	1.21	1.07
1:A3:1224:PRO:CB	2:A4:727:ASN:O	2.01	1.07
1:A3:1277:TRP:CZ3	3:A6:622:GLY:HA2	1.90	1.07
2:A4:544:PHE:O	3:A6:368:SER:OG	1.68	1.07
2:A4:701:ILE:HD12	3:A6:466:ALA:CB	1.82	1.07
2:A4:732:GLN:HG2	3:A6:91:LEU:HD12	1.11	1.07
2:A4:774:VAL:CG1	3:A6:479:VAL:HB	1.59	1.07
3:A5:1363:ASP:HB2	28:Z2:871:HIS:O	1.47	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:520:GLU:HG3	6:D3:681:ALA:HB3	1.32	1.07
3:A6:564:ASN:HD21	6:D3:679:ILE:HD11	1.11	1.07
11:I1:797:LEU:HD13	17:O1:245:GLU:HA	1.34	1.07
11:I1:923:GLY:O	15:M1:590:LYS:O	1.72	1.07
11:I1:957:SER:HB2	20:R1:168:LEU:HG	1.36	1.07
11:I1:1021:ILE:HG12	16:N1:410:MET:HE3	1.29	1.07
11:I1:1607:GLN:HG3	11:I2:1739:GLU:HG2	1.21	1.07
11:I1:1665:LEU:HD12	11:I2:1667:GLN:NE2	1.68	1.07
11:I2:797:LEU:CD2	17:O3:245:GLU:HG3	1.83	1.07
11:I2:888:GLU:N	16:N3:393:ILE:HG22	1.68	1.07
11:I2:931:VAL:CB	15:M3:600:ASN:O	2.00	1.07
11:I2:947:LEU:CD1	17:O3:260:LEU:HD22	1.83	1.07
11:I2:1029:LEU:HD11	16:N3:433:GLU:HG2	1.11	1.07
11:I2:1054:ILE:CA	17:O3:280:GLU:N	2.14	1.07
11:I2:1058:GLY:HA3	17:O3:277:GLU:CA	1.84	1.07
11:I2:1104:LEU:HG	16:N3:433:GLU:OE2	1.53	1.07
11:I2:1546:TRP:HB3	12:J1:300:ILE:CD1	1.85	1.07
11:I4:813:ILE:O	26:X3:496:THR:CG2	2.01	1.07
1:A1:870:HIS:HB2	6:D3:280:GLN:CA	1.82	1.07
2:A2:199:PHE:HA	4:B2:353:LEU:HA	1.36	1.07
2:A2:1128:ASP:C	3:A5:140:ALA:CB	2.23	1.07
1:A3:1054:SER:CA	6:D3:809:ALA:C	2.23	1.07
1:A3:1185:THR:HB	3:A6:639:ASN:O	0.91	1.07
1:A3:1198:GLU:HB2	3:A6:678:LEU:HG	1.36	1.07
1:A3:1244:LEU:CD2	3:A6:633:MET:HE1	1.84	1.07
1:A3:1254:LEU:CD1	3:A6:638:GLU:CG	1.91	1.07
2:A4:199:PHE:HA	4:B4:353:LEU:HA	1.36	1.07
2:A4:688:TRP:HE1	3:A6:394:LEU:HG	1.13	1.07
2:A4:713:ILE:CA	3:A6:462:LEU:HD11	1.85	1.07
2:A4:715:GLU:HA	3:A6:515:THR:N	1.70	1.07
2:A4:780:GLU:HA	6:D3:679:ILE:HD12	1.36	1.07
2:A4:893:LEU:HD12	3:A6:175:GLU:CD	1.73	1.07
2:A4:944:SER:HB2	3:A6:200:VAL:HB	1.24	1.07
2:A4:969:ASP:O	6:D3:192:TYR:CZ	2.07	1.07
2:A4:983:LEU:HD12	6:D3:553:PHE:HB3	1.07	1.07
2:A4:1151:THR:HG21	5:C4:734:VAL:HB	1.10	1.07
3:A5:160:ILE:HD12	5:C2:743:LEU:CD1	1.77	1.07
3:A5:232:LEU:HD12	5:C2:739:MET:HG3	1.08	1.07
3:A5:1029:ILE:CG2	11:I5:71:GLU:N	2.17	1.07
3:A5:1374:ALA:CB	28:Z2:823:ALA:HB1	1.84	1.07
3:A6:444:ARG:HG3	6:D3:733:ALA:HB1	1.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:484:PRO:HG2	6:D3:672:GLU:HG3	1.19	1.07
3:A6:565:THR:HB	6:D3:633:LYS:O	1.53	1.07
11:I1:919:ALA:CB	16:N1:392:THR:OG1	2.02	1.07
11:I1:947:LEU:HD11	16:N1:411:GLN:HG2	1.10	1.07
11:I1:956:ILE:HA	20:R1:166:LEU:CD2	1.85	1.07
11:I1:1029:LEU:H	20:R1:171:ALA:C	1.16	1.07
11:I1:1103:LEU:HD11	20:R1:175:GLN:NE2	1.70	1.07
11:I1:1540:LYS:CE	11:I2:1739:GLU:CB	2.22	1.07
11:I2:884:LEU:CD2	15:M3:595:MET:SD	2.43	1.07
11:I2:959:SER:N	20:R3:166:LEU:HD11	0.78	1.07
11:I2:980:ILE:HB	15:M3:618:GLN:CB	1.84	1.07
11:I2:981:VAL:HB	20:R3:147:LEU:HD23	1.17	1.07
11:I2:990:GLU:HB3	17:O3:272:SER:CA	1.84	1.07
17:O4:107:THR:CA	18:P4:318:PRO:HG3	1.83	1.07
2:A2:780:GLU:C	6:D1:673:ARG:O	1.93	1.07
2:A2:973:GLU:CB	6:D1:205:LEU:CD2	2.32	1.07
2:A2:982:THR:HB	6:D1:494:LEU:HA	1.37	1.07
1:A3:1083:SER:O	6:D3:798:MET:N	1.87	1.07
1:A3:1120:ASP:O	3:A6:599:ARG:NH2	1.86	1.07
1:A3:1166:LEU:CA	3:A6:594:LEU:CB	2.32	1.07
1:A3:1201:ARG:HG2	2:A4:728:LYS:C	1.76	1.07
1:A3:1202:GLU:CB	3:A6:91:LEU:HB3	1.80	1.07
1:A3:1223:GLU:HG2	2:A4:734:LEU:CD1	1.84	1.07
1:A3:1240:HIS:CE1	3:A6:118:SER:H	1.63	1.07
1:A3:1251:VAL:HA	3:A6:634:ASP:HB2	1.34	1.07
1:A3:1266:GLY:N	3:A6:716:ASN:ND2	2.00	1.07
2:A4:78:VAL:O	3:A6:385:PRO:HD3	1.53	1.07
2:A4:496:THR:HG21	3:A6:366:ALA:HB3	1.24	1.07
2:A4:618:ALA:HA	3:A6:498:ARG:HH11	1.14	1.07
2:A4:689:LYS:NZ	3:A6:336:ILE:HG21	1.69	1.07
2:A4:715:GLU:HG2	3:A6:515:THR:CA	1.85	1.07
2:A4:772:SER:H	3:A6:477:PHE:HB3	0.93	1.07
2:A4:983:LEU:CD2	6:D3:497:PHE:CZ	2.37	1.07
3:A5:1026:PRO:HG2	11:I5:73:TYR:HB2	1.32	1.07
3:A6:520:GLU:CG	6:D3:639:LEU:CD1	2.27	1.07
9:G1:258:LYS:N	17:O2:253:LEU:CA	2.18	1.07
11:I1:895:ARG:HE	17:O1:233:THR:HG22	0.91	1.07
11:I1:920:PHE:CZ	17:O1:247:TRP:NE1	2.21	1.07
11:I1:923:GLY:CA	15:M1:590:LYS:O	2.03	1.07
11:I1:1055:GLU:CB	17:O1:280:GLU:HB2	1.83	1.07
11:I2:833:PHE:CE1	17:O3:245:GLU:HG3	1.89	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:939:ASN:HB3	17:O3:265:ASN:OD1	1.51	1.07
11:I2:967:SER:N	20:R3:153:GLN:NE2	2.03	1.07
11:I2:1043:LEU:HD11	16:N3:433:GLU:HB3	1.13	1.07
17:O3:147:ALA:HB1	18:P3:328:PRO:HB2	1.12	1.07
21:S1:682:ASN:O	21:S2:1101:PHE:CZ	2.07	1.07
1:A1:834:GLU:CB	6:D3:302:PRO:CG	2.31	1.06
1:A1:868:GLN:C	6:D3:280:GLN:CB	2.23	1.06
2:A2:224:PRO:HD2	6:D1:709:ARG:NH1	1.70	1.06
2:A2:1125:LEU:HB3	3:A5:135:PHE:N	1.50	1.06
1:A3:1168:LEU:H	3:A6:594:LEU:HD22	1.17	1.06
1:A3:1227:PRO:CB	3:A6:552:PHE:CE2	2.37	1.06
1:A3:1235:ILE:O	3:A6:582:ALA:N	1.71	1.06
1:A3:1248:ILE:HD13	3:A6:640:LEU:HD11	1.34	1.06
1:A3:1282:PHE:HB2	3:A6:625:LEU:O	0.91	1.06
2:A4:540:GLN:O	3:A6:363:ALA:HB3	0.90	1.06
2:A4:652:PRO:CB	3:A6:542:LEU:HD12	1.70	1.06
2:A4:759:ALA:CB	3:A6:388:GLU:HB2	1.85	1.06
2:A4:769:GLU:HA	3:A6:477:PHE:CE1	1.88	1.06
2:A4:774:VAL:HG11	3:A6:467:LEU:CA	1.74	1.06
2:A4:792:VAL:HG11	3:A6:248:VAL:CG1	1.81	1.06
2:A4:859:GLN:NE2	3:A6:167:TRP:CE3	2.21	1.06
2:A4:886:PHE:HA	3:A6:175:GLU:CA	1.85	1.06
2:A4:897:ASN:CA	3:A6:165:PHE:HA	1.83	1.06
2:A4:908:LEU:C	6:D3:552:TYR:CE1	2.27	1.06
2:A4:908:LEU:O	6:D3:555:ARG:CB	2.03	1.06
2:A4:958:LEU:HD12	4:B6:343:LYS:C	1.33	1.06
3:A5:220:VAL:CG1	5:C2:739:MET:HB3	1.83	1.06
3:A5:1029:ILE:CG2	11:I5:69:GLY:C	2.21	1.06
3:A6:446:LEU:HD11	6:D3:721:PRO:CA	1.80	1.06
8:F1:1264:ARG:CG	17:O2:263:GLN:O	2.02	1.06
9:G1:254:ASN:HD21	17:O2:261:LYS:CD	1.67	1.06
11:I1:880:MET:HG3	17:O1:247:TRP:O	1.54	1.06
11:I1:920:PHE:HB2	17:O1:243:LEU:CD2	1.84	1.06
11:I1:955:LYS:HE2	16:N1:396:ILE:O	1.55	1.06
11:I1:957:SER:HB2	20:R1:168:LEU:CG	1.85	1.06
11:I1:990:GLU:HG2	17:O1:275:LEU:CG	1.85	1.06
11:I1:1021:ILE:CG1	16:N1:410:MET:CB	2.34	1.06
11:I2:833:PHE:HE1	17:O3:245:GLU:CD	1.36	1.06
11:I2:891:LEU:HD12	16:N3:393:ILE:CD1	1.74	1.06
11:I2:1030:ARG:O	20:R3:177:LEU:N	1.69	1.06
11:I2:1543:LEU:CD2	12:J1:300:ILE:O	2.00	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:813:ILE:CG1	26:X3:496:THR:HG23	1.83	1.06
23:U3:276:VAL:C	25:W4:192:GLN:HE21	1.46	1.06
1:A1:874:VAL:CG1	6:D3:272:VAL:O	2.01	1.06
1:A1:1224:PRO:CG	2:A2:731:ILE:HB	1.85	1.06
2:A2:911:TYR:OH	6:D1:196:ILE:CG2	2.03	1.06
2:A2:911:TYR:CE2	6:D1:555:ARG:NE	2.23	1.06
2:A2:967:GLU:HA	6:D1:202:GLN:OE1	1.55	1.06
1:A3:835:THR:HG21	6:D1:302:PRO:HB2	1.10	1.06
1:A3:1118:GLN:N	3:A6:592:ASP:OD1	1.88	1.06
1:A3:1166:LEU:CA	3:A6:594:LEU:HB3	1.85	1.06
1:A3:1197:ALA:HB1	2:A4:728:LYS:HG3	1.07	1.06
1:A3:1200:ARG:HD3	3:A6:609:GLU:HG2	1.29	1.06
1:A3:1260:ALA:HB1	3:A6:719:ARG:HD2	1.34	1.06
2:A4:93:ASP:HB3	3:A6:361:ASP:CG	1.76	1.06
2:A4:536:ALA:N	3:A6:369:SER:N	1.96	1.06
2:A4:607:ARG:C	3:A6:506:SER:HA	1.73	1.06
2:A4:646:ILE:N	3:A6:501:VAL:C	2.07	1.06
2:A4:689:LYS:HB2	3:A6:378:ILE:HD13	1.36	1.06
2:A4:691:LYS:NZ	3:A6:331:SER:N	1.97	1.06
2:A4:721:ARG:N	3:A6:494:PRO:N	1.96	1.06
2:A4:753:GLU:OE2	3:A6:542:LEU:HD22	1.54	1.06
2:A4:774:VAL:HG13	3:A6:467:LEU:CG	1.73	1.06
2:A4:826:ASN:ND2	6:D3:633:LYS:HB2	1.69	1.06
2:A4:870:HIS:ND1	6:D3:566:PHE:CD1	2.23	1.06
2:A4:911:TYR:HE2	6:D3:555:ARG:NH2	1.52	1.06
2:A4:949:PHE:HB3	4:B6:348:PRO:CG	1.84	1.06
2:A4:985:ALA:HA	6:D3:500:LYS:H	0.90	1.06
3:A5:164:LEU:HB2	5:C2:742:ASP:CG	1.67	1.06
3:A6:444:ARG:CG	6:D3:737:PHE:CE2	2.38	1.06
3:A6:484:PRO:C	6:D3:676:ALA:H	1.44	1.06
6:D7:534:LEU:HD12	11:I3:181:GLN:O	1.25	1.06
11:I1:882:LYS:N	17:O1:249:ARG:CD	2.18	1.06
11:I1:947:LEU:CD1	16:N1:411:GLN:HG2	1.85	1.06
11:I1:984:GLU:CB	15:M1:618:GLN:NE2	2.17	1.06
11:I1:1018:LYS:HE3	16:N1:413:VAL:O	1.56	1.06
11:I1:1045:PHE:CE1	16:N1:435:ALA:N	2.24	1.06
11:I2:880:MET:N	17:O3:250:LEU:N	1.96	1.06
11:I2:881:ILE:HB	17:O3:249:ARG:C	1.76	1.06
11:I2:921:GLU:CA	15:M3:592:LEU:O	2.01	1.06
11:I2:957:SER:CA	20:R3:168:LEU:HA	1.84	1.06
11:I2:966:TRP:CE3	20:R3:167:GLN:HB3	1.88	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1048:GLU:HG3	17:O3:288:GLU:CG	1.85	1.06
11:I2:1109:LEU:HD22	17:O3:290:TYR:CD2	1.90	1.06
2:A2:781:ARG:HE	6:D1:673:ARG:NH1	1.36	1.06
2:A2:781:ARG:HG3	6:D1:673:ARG:CB	1.84	1.06
2:A2:970:PHE:C	6:D1:192:TYR:CE2	2.28	1.06
2:A2:989:MSE:HE1	6:D1:241:ALA:H	1.09	1.06
2:A2:1138:GLU:CB	3:A5:147:LEU:HD11	1.84	1.06
2:A2:1150:LEU:HD23	3:A5:173:ASN:HD22	1.18	1.06
1:A3:1099:GLN:HG2	11:I2:1414:CYS:C	1.74	1.06
1:A3:1223:GLU:CG	2:A4:734:LEU:CD1	2.32	1.06
1:A3:1270:SER:CB	3:A6:709:LYS:HZ3	1.67	1.06
2:A4:80:LYS:HG3	3:A6:323:THR:HG21	1.31	1.06
2:A4:90:GLN:OE1	3:A6:427:MET:CA	1.89	1.06
2:A4:621:GLN:CB	3:A6:109:ASP:OD1	2.01	1.06
2:A4:635:ARG:CZ	3:A6:600:LYS:C	2.24	1.06
2:A4:720:LEU:HD11	3:A6:510:TYR:CE1	1.87	1.06
2:A4:868:GLN:OE1	6:D3:570:VAL:HG12	1.55	1.06
2:A4:892:SER:HA	3:A6:232:LEU:N	1.68	1.06
2:A4:968:SER:OG	6:D3:201:LEU:C	1.84	1.06
3:A5:172:PRO:HD3	5:C2:730:HIS:CG	1.90	1.06
3:A5:189:VAL:HG21	5:C2:742:ASP:HB3	1.28	1.06
3:A6:483:HIS:HB2	6:D3:675:ARG:HD2	1.30	1.06
3:A6:1403:MSE:CE	28:Z4:964:LEU:CA	2.19	1.06
3:A6:1413:SER:O	28:Z4:994:ILE:HA	1.55	1.06
6:D7:481:ARG:CB	11:I3:183:LYS:HE2	1.76	1.06
6:D7:531:LEU:CA	11:I3:181:GLN:HB3	1.83	1.06
8:F1:1205:TRP:CD1	17:O2:254:ARG:CD	2.35	1.06
9:G1:255:LEU:N	15:M2:602:MET:CA	2.07	1.06
9:G2:254:ASN:HB2	17:O4:265:ASN:HD21	1.11	1.06
11:I1:797:LEU:HB3	17:O1:245:GLU:HG2	1.10	1.06
11:I1:882:LYS:HB3	17:O1:245:GLU:CB	1.85	1.06
11:I1:916:ALA:O	16:N1:389:PHE:CZ	2.07	1.06
11:I1:923:GLY:H	15:M1:592:LEU:CB	1.43	1.06
11:I1:1667:GLN:CB	11:I2:1664:PHE:N	2.17	1.06
11:I2:874:LEU:HA	17:O3:255:GLY:N	1.70	1.06
11:I2:943:ALA:HA	17:O3:260:LEU:CD1	1.85	1.06
11:I2:976:ARG:NH1	15:M3:622:VAL:HG22	1.69	1.06
11:I2:1020:ALA:O	16:N3:406:HIS:CA	2.04	1.06
11:I2:1041:GLN:NE2	15:M3:617:THR:HG22	1.68	1.06
11:I4:819:MET:HE1	27:Y3:178:PHE:CE1	1.86	1.06
11:I4:1270:LYS:HE2	26:X3:527:VAL:HG12	1.14	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:1279:THR:HG21	26:X2:520:GLU:C	1.72	1.06
18:P1:276:SER:O	18:P4:322:LYS:HD2	1.55	1.06
18:P2:319:VAL:HG21	18:P3:278:ASN:OD1	1.51	1.06
21:S3:678:GLU:CB	21:S4:1142:PHE:N	2.18	1.06
1:A1:1224:PRO:CD	2:A2:731:ILE:CD1	2.10	1.06
2:A2:1122:LEU:HD12	3:A5:135:PHE:CD2	1.88	1.06
2:A2:1135:ARG:HE	3:A5:134:VAL:CG1	1.66	1.06
1:A3:1223:GLU:O	3:A6:496:THR:CA	1.78	1.06
1:A3:1233:GLN:CG	3:A6:578:ILE:HB	1.85	1.06
1:A3:1237:LEU:HB3	3:A6:597:GLU:HG3	1.09	1.06
1:A3:1241:ARG:HD3	3:A6:597:GLU:HB2	1.37	1.06
1:A3:1246:SER:O	3:A6:636:ASN:ND2	1.89	1.06
1:A3:1255:LEU:H	3:A6:634:ASP:CB	1.68	1.06
1:A3:1270:SER:OG	3:A6:553:ASP:HB3	1.51	1.06
2:A4:86:ASN:HB2	3:A6:393:HIS:HB2	1.37	1.06
2:A4:238:ARG:NH1	4:B4:349:MET:SD	2.28	1.06
2:A4:547:GLU:N	3:A6:366:ALA:CB	2.19	1.06
2:A4:675:ALA:CB	3:A6:508:LEU:CB	2.32	1.06
2:A4:689:LYS:HD3	3:A6:381:LEU:CD2	1.85	1.06
2:A4:689:LYS:CB	3:A6:378:ILE:HD13	1.86	1.06
2:A4:789:LEU:HD22	3:A6:146:LYS:CD	1.84	1.06
2:A4:792:VAL:CG2	3:A6:248:VAL:N	2.19	1.06
2:A4:869:ALA:HB1	6:D3:573:LEU:HD23	1.32	1.06
2:A4:900:THR:C	3:A6:137:HIS:HE2	1.57	1.06
2:A4:925:LYS:CE	3:A6:233:THR:CA	2.26	1.06
2:A4:975:GLU:CB	6:D3:501:LEU:CB	2.32	1.06
2:A4:983:LEU:HD13	6:D3:553:PHE:O	1.52	1.06
5:C3:732:LYS:NZ	11:I2:1225:LYS:CD	2.18	1.06
8:F1:1137:GLN:CA	17:O2:248:SER:HB3	1.79	1.06
8:F1:1261:TYR:CE1	17:O2:263:GLN:CB	2.39	1.06
9:G1:258:LYS:O	17:O2:256:TYR:CB	2.03	1.06
11:I1:873:ILE:HG22	17:O1:255:GLY:N	1.69	1.06
11:I1:966:TRP:CE3	20:R1:167:GLN:HB3	1.74	1.06
11:I1:994:ALA:H	17:O1:271:GLU:HG3	1.18	1.06
11:I1:1036:PRO:O	15:M1:624:ASN:HA	1.55	1.06
11:I1:1042:LEU:HB2	20:R1:170:LEU:CD1	1.86	1.06
11:I1:1118:LEU:HD11	16:N1:432:TYR:CE2	1.91	1.06
11:I2:945:LEU:CD1	17:O3:255:GLY:C	2.22	1.06
11:I2:947:LEU:HG	16:N3:407:ALA:O	0.89	1.06
11:I2:998:ALA:CB	17:O3:267:ALA:CB	2.08	1.06
11:I2:1017:VAL:HG22	17:O3:260:LEU:HD21	1.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1036:PRO:HG2	15:M3:623:LEU:N	1.47	1.06
11:I2:1040:HIS:CB	15:M3:619:ILE:CG2	2.34	1.06
11:I2:1045:PHE:O	15:M3:619:ILE:HD12	1.53	1.06
21:S1:671:ALA:HB2	21:S2:1146:ALA:H	1.15	1.06
21:S3:676:GLU:CB	21:S4:1146:ALA:HB2	1.84	1.06
1:A1:1222:ALA:HB1	2:A2:615:LEU:CD1	1.79	1.06
2:A2:781:ARG:HG3	6:D1:673:ARG:HB3	1.29	1.06
2:A2:867:GLU:H	6:D1:605:THR:HB	1.18	1.06
2:A2:968:SER:CA	6:D1:201:LEU:C	2.23	1.06
2:A2:1157:TYR:OH	3:A5:167:TRP:NE1	1.84	1.06
1:A3:1186:TRP:CE3	3:A6:641:ALA:HB2	1.89	1.06
1:A3:1198:GLU:HA	3:A6:682:ARG:CZ	1.19	1.06
1:A3:1235:ILE:O	3:A6:583:LEU:N	1.88	1.06
1:A3:1244:LEU:HB3	3:A6:633:MET:HE2	1.35	1.06
1:A3:1251:VAL:HG23	3:A6:633:MET:HB3	1.11	1.06
2:A4:691:LYS:CG	3:A6:316:ARG:HD2	1.63	1.06
2:A4:734:LEU:HD13	3:A6:95:TYR:CD1	1.89	1.06
2:A4:762:LYS:HB2	3:A6:472:SER:CB	1.86	1.06
2:A4:793:SER:HB3	3:A6:146:LYS:HE2	1.35	1.06
2:A4:876:ARG:CD	6:D3:558:LYS:CA	1.89	1.06
2:A4:879:LEU:HD12	6:D3:564:ASN:OD1	0.88	1.06
3:A5:1027:HIS:CD2	11:I5:65:LYS:O	2.08	1.06
3:A5:1098:ARG:CD	11:I5:29:GLN:HE21	1.68	1.06
3:A6:1367:THR:CB	28:Z4:877:ILE:H	1.69	1.06
8:F1:1264:ARG:NE	17:O2:263:GLN:O	1.87	1.06
9:G1:255:LEU:H	15:M2:602:MET:HA	1.15	1.06
11:I1:882:LYS:N	17:O1:249:ARG:HB2	1.64	1.06
11:I1:976:ARG:HH22	15:M1:622:VAL:CG1	1.68	1.06
11:I1:1021:ILE:HG13	16:N1:410:MET:HB2	1.07	1.06
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD11	1.69	1.06
11:I1:1673:VAL:HG11	11:I2:1610:VAL:HG22	1.33	1.06
11:I2:885:GLU:HA	16:N3:397:GLU:HG2	1.08	1.06
11:I2:898:VAL:HG23	17:O3:237:PRO:CD	1.84	1.06
11:I2:958:THR:HA	20:R3:168:LEU:HD21	1.35	1.06
11:I2:982:GLN:HB3	15:M3:621:ARG:HH12	1.15	1.06
11:I2:987:GLY:H	15:M3:613:ASP:HB3	0.97	1.06
11:I2:1043:LEU:H	15:M3:616:LEU:HD11	1.10	1.06
11:I3:1270:LYS:HE2	26:X1:530:ARG:HG2	1.16	1.06
1:A1:1224:PRO:HD3	2:A2:731:ILE:HG12	1.28	1.05
2:A2:238:ARG:NH1	4:B2:349:MET:SD	2.28	1.05
1:A3:1170:ILE:CG2	3:A6:591:ASP:HB2	1.76	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1202:GLU:CG	3:A6:91:LEU:HB3	1.86	1.05
1:A3:1244:LEU:HD22	3:A6:633:MET:CE	1.85	1.05
1:A3:1273:ALA:H	3:A6:554:GLN:CB	1.69	1.05
2:A4:675:ALA:HB1	3:A6:508:LEU:CB	1.85	1.05
2:A4:761:GLN:NE2	3:A6:545:GLY:C	2.09	1.05
2:A4:770:GLY:O	3:A6:469:PHE:CE2	2.08	1.05
2:A4:854:VAL:HG12	3:A6:174:PRO:CD	1.85	1.05
2:A4:854:VAL:HG21	3:A6:172:PRO:HD2	1.29	1.05
2:A4:868:GLN:CG	6:D3:608:ILE:HD13	1.77	1.05
3:A5:1029:ILE:N	11:I5:67:LYS:C	1.77	1.05
3:A5:1415:PHE:N	28:Z2:960:CYS:N	2.01	1.05
3:A6:1398:LYS:HD2	28:Z4:918:PHE:HA	1.18	1.05
11:I1:797:LEU:CD1	17:O1:245:GLU:CA	2.32	1.05
11:I1:920:PHE:HE1	17:O1:247:TRP:NE1	1.33	1.05
11:I1:1056:PRO:CA	17:O1:278:GLU:HG2	1.76	1.05
11:I1:1108:PRO:HG2	16:N1:443:GLU:N	1.62	1.05
11:I2:833:PHE:O	17:O3:241:SER:CA	2.03	1.05
11:I2:919:ALA:CB	16:N3:392:THR:OG1	2.02	1.05
11:I2:951:LYS:HG2	16:N3:404:GLU:HG3	1.33	1.05
11:I2:976:ARG:CB	20:R3:149:ARG:H	1.68	1.05
11:I2:1021:ILE:CG1	16:N3:410:MET:HE3	1.78	1.05
11:I2:1040:HIS:CE1	16:N3:437:VAL:CG1	2.39	1.05
11:I2:1044:GLY:O	17:O3:280:GLU:HG2	1.55	1.05
11:I2:1186:PRO:HG2	17:O4:221:ASP:OD1	1.39	1.05
11:I3:1270:LYS:HE2	26:X1:530:ARG:CG	1.67	1.05
11:I3:1271:GLU:O	26:X1:525:ILE:HG22	1.54	1.05
11:I3:1278:ALA:H	26:X1:519:ILE:CB	1.68	1.05
1:A1:1220:PRO:O	2:A2:645:PHE:C	1.94	1.05
1:A1:1332:ARG:NH2	6:D1:685:VAL:HB	1.70	1.05
2:A2:1144:ASP:N	3:A5:129:ASN:HB3	1.69	1.05
1:A3:1098:ARG:HD2	11:I2:1414:CYS:CB	1.85	1.05
1:A3:1196:GLU:O	3:A6:609:GLU:HG2	1.54	1.05
1:A3:1203:TYR:HA	3:A6:91:LEU:CG	1.83	1.05
2:A4:91:LEU:CD2	3:A6:430:GLN:HE22	1.56	1.05
2:A4:537:ALA:CA	3:A6:368:SER:HA	1.85	1.05
2:A4:621:GLN:HB2	3:A6:109:ASP:OD1	1.29	1.05
2:A4:721:ARG:HB3	3:A6:572:ARG:CZ	1.87	1.05
2:A4:724:LEU:HD21	3:A6:95:TYR:OH	1.55	1.05
2:A4:769:GLU:HB3	3:A6:528:ILE:HG22	1.37	1.05
2:A4:806:PHE:HB2	3:A6:382:SER:HB2	1.08	1.05
2:A4:822:ILE:HG23	3:A6:526:ILE:HD12	1.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:H	6:D3:499:LEU:HD12	1.14	1.05
2:A4:988:ARG:NH2	6:D3:499:LEU:CA	2.04	1.05
3:A5:1395:LYS:HG2	28:Z2:873:LEU:CB	1.86	1.05
8:F1:1093:LEU:HD11	17:O2:240:GLY:O	1.56	1.05
11:I1:914:ASN:HB2	15:M1:588:MET:N	1.41	1.05
11:I1:920:PHE:CZ	17:O1:247:TRP:CE2	2.44	1.05
11:I1:931:VAL:CG2	15:M1:604:ASN:OD1	2.04	1.05
11:I1:981:VAL:HG12	20:R1:151:LYS:HB2	1.09	1.05
11:I1:1036:PRO:O	15:M1:623:LEU:C	1.94	1.05
11:I1:1043:LEU:O	16:N1:430:ARG:HG3	1.56	1.05
11:I1:1607:GLN:O	12:J2:298:PHE:CG	1.71	1.05
11:I2:840:LEU:HB3	17:O3:247:TRP:CD1	1.89	1.05
11:I2:1044:GLY:HA2	17:O3:275:LEU:HD12	1.08	1.05
11:I2:1046:HIS:HB3	17:O3:280:GLU:C	1.76	1.05
17:O2:110:LEU:HD23	18:P2:321:ILE:O	1.54	1.05
2:A2:987:LYS:HD3	6:D1:555:ARG:NE	1.66	1.05
1:A3:1195:PHE:HD2	3:A6:678:LEU:N	1.52	1.05
1:A3:1233:GLN:O	3:A6:601:PHE:HZ	1.38	1.05
1:A3:1244:LEU:CA	3:A6:633:MET:HE1	1.85	1.05
2:A4:87:GLN:HG2	3:A6:408:ALA:N	1.71	1.05
2:A4:89:LEU:CD1	3:A6:406:LEU:CD1	2.23	1.05
2:A4:718:GLU:HB3	3:A6:121:PRO:HG3	1.38	1.05
2:A4:771:ILE:CD1	3:A6:478:ASP:HB2	1.73	1.05
2:A4:802:TYR:CE1	3:A6:397:LEU:HD23	1.92	1.05
2:A4:802:TYR:CE2	3:A6:397:LEU:HD23	1.91	1.05
2:A4:878:LEU:HB3	6:D3:567:LEU:HD13	1.31	1.05
2:A4:893:LEU:HD12	3:A6:175:GLU:CG	1.62	1.05
2:A4:934:TRP:CZ2	4:B6:350:GLU:HB2	1.91	1.05
2:A4:984:ALA:C	6:D3:498:GLU:CA	2.16	1.05
2:A4:988:ARG:CG	6:D3:500:LYS:HG3	1.86	1.05
2:A4:992:TYR:CB	6:D3:238:ALA:O	1.98	1.05
3:A5:172:PRO:HG3	5:C2:730:HIS:ND1	1.72	1.05
8:F1:1262:HIS:ND1	17:O2:259:ASP:HA	1.60	1.05
11:I1:797:LEU:HD13	17:O1:245:GLU:CB	1.85	1.05
11:I1:846:ILE:HG12	15:M1:591:ASP:CA	1.85	1.05
11:I1:884:LEU:HG	17:O1:246:LEU:HD22	1.09	1.05
11:I1:923:GLY:N	15:M1:592:LEU:HB3	1.70	1.05
11:I1:946:THR:OG1	17:O1:260:LEU:CD2	2.00	1.05
11:I1:1036:PRO:O	15:M1:624:ASN:N	1.88	1.05
11:I2:919:ALA:HB2	16:N3:392:THR:OG1	1.54	1.05
11:I2:965:ALA:HB3	20:R3:164:PRO:HA	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:967:SER:OG	15:M3:625:GLY:CA	1.99	1.05
11:I2:1043:LEU:N	15:M3:616:LEU:HD11	1.62	1.05
11:I2:1059:PRO:HB2	17:O3:274:GLY:O	1.54	1.05
11:I3:815:ILE:HG23	26:X1:497:ARG:N	1.69	1.05
17:O3:155:VAL:CG2	18:P3:321:ILE:CG2	2.35	1.05
21:S1:671:ALA:N	21:S2:1145:LYS:C	2.09	1.05
1:A3:1052:THR:CB	6:D3:816:VAL:HB	1.80	1.05
1:A3:1192:GLN:HB2	3:A6:645:PHE:CE2	1.91	1.05
1:A3:1261:TYR:CD2	3:A6:679:TYR:OH	2.09	1.05
1:A3:1321:MET:CE	3:A6:571:ARG:HH22	1.47	1.05
2:A4:646:ILE:H	3:A6:501:VAL:C	1.57	1.05
2:A4:669:LEU:CD2	3:A6:542:LEU:H	1.70	1.05
2:A4:680:LEU:HD23	3:A6:470:ARG:HH21	0.95	1.05
2:A4:718:GLU:HG2	3:A6:491:VAL:C	1.77	1.05
2:A4:754:HIS:HB2	3:A6:93:ASP:OD1	1.56	1.05
2:A4:1094:ILE:HA	6:D4:708:ASP:OD2	1.55	1.05
2:A4:1098:ARG:NH2	6:D4:709:ARG:HH22	1.54	1.05
3:A5:175:GLU:CG	5:C2:733:LEU:HD11	1.86	1.05
3:A5:996:ASN:C	11:I5:61:LYS:H	1.43	1.05
3:A5:1026:PRO:HB3	11:I5:73:TYR:CE1	1.89	1.05
3:A5:1401:VAL:O	28:Z2:918:PHE:CB	2.05	1.05
3:A6:1403:MSE:HA	26:X4:741:GLN:O	1.54	1.05
11:I1:882:LYS:H	17:O1:249:ARG:HB2	0.91	1.05
11:I1:894:VAL:HG21	17:O1:238:ALA:CB	1.87	1.05
11:I1:952:LEU:CA	16:N1:400:LEU:HD22	1.76	1.05
11:I1:1071:LEU:H	16:N1:429:GLU:HG3	1.20	1.05
11:I1:1103:LEU:CD1	20:R1:175:GLN:HG2	1.84	1.05
11:I1:1114:VAL:HG11	16:N1:432:TYR:CE2	1.77	1.05
11:I2:841:PHE:CE1	15:M3:588:MET:HG3	1.90	1.05
11:I2:944:GLU:HA	17:O3:256:TYR:CZ	1.91	1.05
11:I2:1031:ALA:CA	20:R3:173:LEU:HA	1.86	1.05
11:I2:1048:GLU:C	17:O3:287:LEU:HB3	1.77	1.05
11:I3:1275:SER:OG	26:X1:522:MET:HA	1.55	1.05
15:M1:507:GLN:OE1	18:P1:318:PRO:HG2	1.53	1.05
17:O3:158:GLU:O	18:P3:315:GLU:OE1	1.73	1.05
21:S4:176:MET:HE2	21:S4:212:LEU:HD11	1.39	1.05
1:A1:870:HIS:H	6:D3:280:GLN:HB2	1.18	1.05
2:A2:827:ILE:O	2:A2:863:GLN:CG	2.00	1.05
2:A2:975:GLU:H	6:D1:499:LEU:CG	1.64	1.05
1:A3:1056:PHE:CE2	6:D3:807:THR:C	2.29	1.05
1:A3:1204:TRP:HB2	2:A4:731:ILE:HG23	1.10	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:535:PHE:CD1	3:A6:368:SER:HB2	1.86	1.05
2:A4:615:LEU:HG	3:A6:511:PHE:H	1.19	1.05
2:A4:775:LEU:HG	3:A6:479:VAL:HA	1.06	1.05
2:A4:826:ASN:ND2	3:A6:565:THR:HG22	1.71	1.05
2:A4:869:ALA:CB	6:D3:573:LEU:HD23	1.86	1.05
2:A4:972:GLY:C	6:D3:205:LEU:N	1.95	1.05
2:A4:989:MSE:HE1	6:D3:242:LEU:H	1.07	1.05
3:A5:172:PRO:CD	5:C2:730:HIS:ND1	2.18	1.05
3:A5:1054:SER:HB3	11:I5:38:GLN:OE1	1.26	1.05
11:I1:924:ILE:CD1	15:M1:595:MET:HG2	1.86	1.05
11:I1:952:LEU:HA	16:N1:400:LEU:HD22	1.15	1.05
11:I1:985:ARG:N	15:M1:613:ASP:HA	1.35	1.05
11:I1:1030:ARG:HG2	20:R1:179:LYS:HE2	1.10	1.05
11:I1:1610:VAL:HG22	11:I2:1673:VAL:HG11	1.07	1.05
11:I1:1611:PHE:CA	11:I2:1673:VAL:N	2.19	1.05
11:I2:899:LEU:HD22	17:O3:231:ASP:CG	1.77	1.05
11:I2:917:TYR:O	15:M3:588:MET:HG2	1.55	1.05
11:I2:1035:GLN:O	15:M3:623:LEU:CD2	2.03	1.05
11:I2:1044:GLY:HA2	17:O3:275:LEU:CD1	1.86	1.05
11:I2:1061:ASP:HB2	17:O3:278:GLU:HB2	1.37	1.05
11:I2:1109:LEU:CG	16:N3:438:LEU:HD23	1.83	1.05
11:I5:1273:GLU:O	26:X2:521:TRP:HA	1.53	1.05
1:A1:1204:TRP:CH2	2:A2:676:LEU:HD12	1.91	1.04
1:A1:1224:PRO:CD	2:A2:731:ILE:CB	2.35	1.04
2:A2:908:LEU:CD2	6:D1:602:THR:N	2.09	1.04
2:A2:980:ARG:CB	6:D1:473:GLU:HG3	1.86	1.04
2:A2:989:MSE:HE2	6:D1:240:ASP:HA	1.37	1.04
2:A2:1114:ILE:HD11	5:C2:731:LYS:CB	1.87	1.04
2:A2:1142:PHE:HB2	3:A5:130:ILE:CA	1.80	1.04
1:A3:1132:PRO:HD3	3:A6:653:ARG:HH22	1.15	1.04
1:A3:1248:ILE:HD11	3:A6:587:VAL:N	1.71	1.04
1:A3:1248:ILE:HD12	3:A6:587:VAL:CG2	1.61	1.04
2:A4:576:VAL:HG12	3:A6:509:LYS:CD	1.87	1.04
2:A4:616:ALA:H	3:A6:509:LYS:HB2	1.17	1.04
2:A4:757:LEU:CB	3:A6:543:GLY:C	2.19	1.04
2:A4:788:ARG:HB3	3:A6:145:THR:HG23	1.39	1.04
2:A4:971:ALA:N	6:D3:202:GLN:CG	2.18	1.04
2:A4:1098:ARG:HH21	6:D4:709:ARG:NH2	1.54	1.04
3:A5:1367:THR:O	28:Z2:825:TYR:C	1.95	1.04
6:D7:530:ARG:NH1	11:I3:182:VAL:H	1.54	1.04
8:F1:1093:LEU:HG	17:O2:241:SER:HA	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:927:HIS:O	15:M1:597:LYS:HA	1.52	1.04
11:I1:952:LEU:N	17:O1:253:LEU:HD13	1.71	1.04
11:I1:1017:VAL:CA	16:N1:412:ASN:H	1.67	1.04
11:I2:886:LEU:HD12	17:O3:245:GLU:HB3	1.37	1.04
11:I2:891:LEU:HD11	16:N3:393:ILE:HD11	1.35	1.04
11:I2:942:HIS:CB	17:O3:259:ASP:CA	2.28	1.04
11:I2:950:LEU:CG	16:N3:410:MET:SD	2.44	1.04
11:I2:967:SER:CB	15:M3:625:GLY:HA3	1.79	1.04
11:I2:977:ASN:OD1	15:M3:621:ARG:HB3	1.57	1.04
11:I2:982:GLN:CB	15:M3:621:ARG:HH12	1.68	1.04
11:I3:816:ASP:HA	26:X1:498:SER:CB	1.86	1.04
11:I4:813:ILE:HD12	26:X3:496:THR:HG22	1.37	1.04
11:I4:819:MET:CE	27:Y3:178:PHE:CZ	2.32	1.04
11:I5:1276:GLN:N	26:X2:521:TRP:CD1	2.22	1.04
2:A2:973:GLU:CB	6:D1:205:LEU:HD22	1.56	1.04
1:A3:1172:HIS:CG	3:A6:587:VAL:O	1.96	1.04
1:A3:1248:ILE:CB	3:A6:587:VAL:HG13	1.87	1.04
2:A4:76:PRO:CD	3:A6:322:ASP:HB2	1.88	1.04
2:A4:93:ASP:HB3	3:A6:361:ASP:HB2	1.37	1.04
2:A4:549:ALA:CB	3:A6:105:GLY:O	2.03	1.04
2:A4:608:VAL:HG13	3:A6:100:SER:O	1.57	1.04
2:A4:722:ASN:HB3	3:A6:513:GLN:CG	1.86	1.04
2:A4:816:LYS:HD2	3:A6:150:PHE:CA	1.40	1.04
2:A4:817:VAL:HG12	3:A6:146:LYS:HG2	1.39	1.04
2:A4:976:LEU:HD11	6:D3:501:LEU:HD22	1.37	1.04
3:A6:1366:LEU:O	28:Z4:874:ASN:CA	2.04	1.04
3:A6:1411:ARG:NH1	26:X4:689:ALA:CB	1.97	1.04
9:G1:254:ASN:HD21	17:O2:261:LYS:HD2	1.16	1.04
9:G1:262:SER:O	16:N2:411:GLN:OE1	1.73	1.04
11:I1:843:GLU:CG	15:M1:587:GLU:OE2	1.89	1.04
11:I1:962:ILE:HD12	20:R1:164:PRO:C	1.78	1.04
11:I1:1070:LEU:H	16:N1:429:GLU:HB2	1.22	1.04
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CB	1.83	1.04
11:I2:890:TYR:H	17:O3:242:ARG:CG	1.69	1.04
11:I2:1017:VAL:CG2	17:O3:260:LEU:HD11	1.87	1.04
18:P2:320:GLN:HG2	18:P3:278:ASN:HB2	1.29	1.04
1:A1:873:PRO:HB2	6:D3:218:LYS:HZ1	0.92	1.04
1:A1:1221:ILE:HD12	2:A2:618:ALA:HB2	1.04	1.04
2:A2:875:LEU:HD23	6:D1:566:PHE:C	1.75	1.04
2:A2:911:TYR:HE2	6:D1:555:ARG:NE	1.55	1.04
2:A2:970:PHE:CD1	6:D1:196:ILE:CD1	2.41	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1132:PRO:HD2	3:A5:160:ILE:HG13	1.36	1.04
2:A2:1148:ARG:HH22	3:A5:169:TYR:C	1.61	1.04
1:A3:1231:VAL:HG21	3:A6:616:ALA:HB3	1.33	1.04
2:A4:689:LYS:CG	3:A6:336:ILE:CD1	2.33	1.04
2:A4:727:ASN:ND2	3:A6:497:GLY:CA	2.11	1.04
2:A4:757:LEU:C	3:A6:544:PHE:CD2	2.31	1.04
2:A4:859:GLN:HE21	3:A6:176:LEU:HD22	0.95	1.04
2:A4:946:LYS:HB3	4:B6:351:GLU:N	1.67	1.04
2:A4:973:GLU:HA	6:D3:205:LEU:CB	1.87	1.04
3:A5:222:ALA:HB2	5:C2:739:MET:SD	1.96	1.04
3:A6:1402:ASP:CB	26:X4:743:PHE:O	2.05	1.04
11:I1:1021:ILE:HD11	16:N1:410:MET:HG3	1.08	1.04
11:I1:1110:SER:N	16:N1:437:VAL:C	2.02	1.04
11:I1:1667:GLN:HE21	11:I2:1665:LEU:HD12	0.92	1.04
11:I2:874:LEU:HG	17:O3:256:TYR:N	1.71	1.04
11:I2:897:GLU:HB3	17:O3:236:ASP:OD2	1.56	1.04
11:I2:942:HIS:HB3	17:O3:259:ASP:OD2	0.87	1.04
11:I2:958:THR:HA	20:R3:168:LEU:CD2	1.88	1.04
11:I2:1046:HIS:N	17:O3:280:GLU:HA	1.71	1.04
11:I4:1276:GLN:HA	26:X3:520:GLU:HB2	1.37	1.04
17:O3:102:LYS:CG	18:P3:322:LYS:HZ2	1.70	1.04
21:S1:660:LEU:CA	21:S2:1102:VAL:CG2	2.35	1.04
2:A2:874:VAL:HG22	6:D1:611:LYS:HG2	1.39	1.04
1:A3:1098:ARG:CD	11:I2:1414:CYS:HB2	1.87	1.04
1:A3:1251:VAL:HA	3:A6:634:ASP:CG	1.76	1.04
1:A3:1267:GLN:OE1	3:A6:551:GLN:HB2	1.57	1.04
2:A4:542:LEU:O	3:A6:361:ASP:CA	2.02	1.04
2:A4:822:ILE:HG21	3:A6:526:ILE:CD1	1.83	1.04
2:A4:855:THR:C	3:A6:167:TRP:CD1	2.31	1.04
2:A4:868:GLN:HB3	6:D3:570:VAL:HB	1.34	1.04
2:A4:946:LYS:CA	4:B6:351:GLU:H	1.50	1.04
2:A4:976:LEU:HD22	6:D3:472:PHE:HD2	0.95	1.04
3:A6:443:ILE:N	6:D3:691:LEU:CD1	2.11	1.04
11:I1:919:ALA:HB2	16:N1:389:PHE:O	1.50	1.04
11:I1:952:LEU:HD11	15:M1:599:ILE:HG12	1.35	1.04
11:I1:1037:THR:HG23	20:R1:169:GLY:HA2	1.08	1.04
11:I1:1071:LEU:N	16:N1:429:GLU:CG	2.21	1.04
11:I1:1104:LEU:CB	16:N1:436:ALA:HB3	1.86	1.04
11:I2:896:PRO:C	17:O3:232:LYS:O	1.96	1.04
11:I2:899:LEU:HG	17:O3:235:ASN:H	0.90	1.04
11:I2:900:ARG:CA	17:O3:232:LYS:HE2	1.86	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:980:ILE:C	20:R3:147:LEU:CD1	2.10	1.04
11:I2:981:VAL:N	20:R3:147:LEU:CD2	2.19	1.04
11:I2:1039:ALA:HA	20:R3:170:LEU:HD11	1.31	1.04
11:I4:815:ILE:O	26:X3:497:ARG:HA	1.52	1.04
17:O4:109:PRO:HB2	18:P4:318:PRO:HB2	1.38	1.04
21:S1:680:PRO:O	21:S2:1127:GLN:NE2	1.91	1.04
21:S1:684:THR:H	21:S2:1148:TYR:HA	0.90	1.04
1:A1:1226:LEU:H	2:A2:725:GLU:CG	1.67	1.04
2:A2:969:ASP:HA	6:D1:196:ILE:N	1.65	1.04
2:A2:1125:LEU:CB	3:A5:135:PHE:N	2.20	1.04
2:A2:1149:THR:CA	5:C2:730:HIS:N	2.18	1.04
1:A3:1232:SER:OG	3:A6:577:ASP:CG	1.81	1.04
1:A3:1233:GLN:HB2	3:A6:575:LEU:HD12	1.09	1.04
2:A4:577:ASP:HB3	3:A6:453:SER:OG	1.58	1.04
2:A4:635:ARG:NH1	3:A6:600:LYS:CA	2.21	1.04
2:A4:689:LYS:CB	3:A6:336:ILE:HD11	1.87	1.04
2:A4:720:LEU:CB	3:A6:512:GLU:HA	1.87	1.04
2:A4:721:ARG:HG3	3:A6:494:PRO:HD2	1.37	1.04
2:A4:813:GLU:OE2	3:A6:191:LEU:N	1.91	1.04
2:A4:866:SER:O	6:D3:598:ILE:HG12	1.55	1.04
2:A4:867:GLU:CD	6:D3:605:THR:CB	2.26	1.04
2:A4:875:LEU:HD13	6:D3:567:LEU:HD23	1.37	1.04
2:A4:1114:ILE:HD11	5:C4:731:LYS:CB	1.87	1.04
3:A5:1395:LYS:HG3	28:Z2:870:ILE:O	1.57	1.04
3:A6:444:ARG:HG2	6:D3:737:PHE:CE2	1.91	1.04
3:A6:484:PRO:HB2	6:D3:672:GLU:OE2	1.57	1.04
3:A6:524:ARG:CD	6:D3:677:GLN:HA	1.75	1.04
11:I1:846:ILE:CD1	15:M1:594:LYS:CE	2.04	1.04
11:I1:887:GLN:CB	16:N1:393:ILE:HD13	1.87	1.04
11:I1:921:GLU:HB3	15:M1:596:ILE:HD11	1.12	1.04
11:I1:949:CYS:SG	15:M1:602:MET:CE	2.45	1.04
11:I1:1021:ILE:N	16:N1:409:ALA:HB3	1.71	1.04
11:I2:874:LEU:N	17:O3:255:GLY:CA	2.14	1.04
11:I2:951:LYS:HD2	16:N3:403:VAL:CA	1.64	1.04
11:I2:966:TRP:CZ3	20:R3:167:GLN:CD	2.18	1.04
11:I2:980:ILE:C	20:R3:147:LEU:HD11	1.56	1.04
11:I2:999:SER:HB2	17:O3:264:ILE:HG21	1.35	1.04
11:I4:1279:THR:OG1	26:X3:520:GLU:CD	1.89	1.04
17:O3:102:LYS:CB	18:P3:322:LYS:CE	2.30	1.04
18:P1:276:SER:C	18:P4:322:LYS:HD2	1.78	1.04
2:A2:225:THR:H	6:D1:709:ARG:CZ	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:824:ASN:OD1	2:A2:859:GLN:OE1	1.75	1.03
2:A2:825:ARG:CD	6:D1:633:LYS:HZ3	1.71	1.03
2:A2:1160:GLN:CD	3:A5:165:PHE:CA	2.26	1.03
1:A3:1182:ILE:CG2	3:A6:636:ASN:HA	1.87	1.03
1:A3:1230:TYR:HE1	3:A6:610:THR:CA	1.34	1.03
2:A4:614:ALA:HB1	3:A6:502:THR:HG23	1.03	1.03
2:A4:615:LEU:CD2	3:A6:509:LYS:O	2.05	1.03
2:A4:701:ILE:HG13	3:A6:466:ALA:HA	1.05	1.03
2:A4:720:LEU:HD22	3:A6:494:PRO:HB2	1.37	1.03
2:A4:720:LEU:HD21	3:A6:499:ILE:CD1	1.87	1.03
2:A4:775:LEU:HG	3:A6:479:VAL:CA	1.88	1.03
2:A4:776:MET:HB3	3:A6:525:THR:CG2	1.88	1.03
2:A4:779:ASP:O	6:D3:674:TYR:CA	2.06	1.03
2:A4:826:ASN:HD21	3:A6:565:THR:HG22	0.90	1.03
2:A4:854:VAL:HG11	3:A6:171:HIS:CG	1.92	1.03
2:A4:859:GLN:HB3	3:A6:134:VAL:HG23	1.37	1.03
2:A4:880:ALA:HB3	6:D3:562:GLY:O	1.55	1.03
2:A4:951:GLU:OE1	3:A6:233:THR:CB	2.06	1.03
2:A4:975:GLU:CB	6:D3:499:LEU:CB	2.36	1.03
3:A5:1392:ARG:CD	28:Z2:866:GLU:CB	2.35	1.03
9:G1:254:ASN:CG	15:M2:605:THR:CB	2.19	1.03
11:I1:840:LEU:CB	17:O1:243:LEU:HB2	1.88	1.03
11:I1:947:LEU:CD1	17:O1:256:TYR:CE2	2.41	1.03
11:I1:949:CYS:SG	15:M1:602:MET:HE1	1.97	1.03
11:I1:951:LYS:O	16:N1:400:LEU:CA	2.05	1.03
11:I1:990:GLU:HG3	17:O1:275:LEU:HD23	1.08	1.03
11:I1:1020:ALA:N	16:N1:405:ALA:O	1.89	1.03
11:I2:884:LEU:HD11	15:M3:599:ILE:HD11	1.09	1.03
11:I2:899:LEU:CD1	17:O3:234:LEU:H	1.70	1.03
11:I2:980:ILE:C	15:M3:618:GLN:HG3	1.77	1.03
11:I2:1048:GLU:O	17:O3:287:LEU:HD23	1.55	1.03
11:I3:1277:LEU:CD1	26:X1:511:TYR:CD2	2.36	1.03
1:A1:1200:ARG:NE	2:A2:642:ARG:HH21	1.56	1.03
2:A2:970:PHE:CD1	6:D1:196:ILE:HD12	1.93	1.03
2:A2:1148:ARG:CB	3:A5:174:PRO:HD3	1.85	1.03
1:A3:1201:ARG:NH2	3:A6:537:ALA:HB1	1.69	1.03
1:A3:1267:GLN:HB3	3:A6:551:GLN:O	1.27	1.03
1:A3:1277:TRP:CH2	3:A6:622:GLY:N	2.27	1.03
1:A3:1332:ARG:NE	6:D3:636:ASP:CG	2.12	1.03
2:A4:87:GLN:HG2	3:A6:408:ALA:H	0.90	1.03
2:A4:231:SER:CB	6:D3:709:ARG:NH2	2.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:623:SER:N	3:A6:453:SER:CB	2.05	1.03
2:A4:677:ALA:HB1	3:A6:98:LEU:HG	1.28	1.03
2:A4:736:PRO:HA	3:A6:685:ARG:NH1	1.23	1.03
2:A4:780:GLU:HB3	6:D3:679:ILE:HD11	1.36	1.03
2:A4:789:LEU:CD2	3:A6:146:LYS:HG3	1.87	1.03
2:A4:865:ALA:CB	6:D3:567:LEU:HD22	1.81	1.03
2:A4:890:ALA:CA	3:A6:175:GLU:OE2	2.05	1.03
2:A4:894:THR:CB	3:A6:166:LEU:HB2	1.71	1.03
2:A4:973:GLU:O	6:D3:499:LEU:CG	2.05	1.03
2:A4:985:ALA:HA	6:D3:500:LYS:N	1.74	1.03
3:A5:175:GLU:CD	5:C2:733:LEU:CD1	2.25	1.03
3:A5:1369:ILE:CG2	28:Z2:831:LEU:H	1.68	1.03
3:A6:484:PRO:HD2	6:D3:672:GLU:HG2	1.38	1.03
3:A6:524:ARG:HD2	6:D3:677:GLN:HA	1.38	1.03
3:A6:1410:ALA:H	26:X4:686:ASP:N	1.56	1.03
11:I1:1609:GLY:CA	12:J2:295:TYR:HE1	1.69	1.03
11:I2:896:PRO:N	17:O3:233:THR:CA	2.13	1.03
11:I2:948:ALA:HB3	17:O3:257:ALA:N	1.73	1.03
11:I2:980:ILE:HD11	20:R3:147:LEU:HB2	1.37	1.03
11:I2:997:SER:CB	16:N3:427:VAL:HG23	1.88	1.03
11:I2:1031:ALA:HB3	20:R3:168:LEU:HD22	1.36	1.03
11:I2:1069:SER:N	16:N3:428:ASP:H	1.41	1.03
11:I2:1100:ILE:O	16:N3:433:GLU:OE2	1.77	1.03
11:I2:1113:LEU:HD21	17:O3:282:LYS:HE2	1.10	1.03
11:I3:1277:LEU:CD2	26:X1:513:PHE:HB3	1.80	1.03
17:O3:147:ALA:CB	18:P3:328:PRO:CG	2.36	1.03
1:A1:1204:TRP:CZ2	2:A2:676:LEU:CD1	2.41	1.03
2:A2:1150:LEU:HD23	3:A5:173:ASN:ND2	1.74	1.03
2:A4:542:LEU:HD23	3:A6:364:HIS:HD1	1.08	1.03
2:A4:684:VAL:HG23	3:A6:395:MET:HG3	1.35	1.03
2:A4:710:LEU:CA	3:A6:478:ASP:OD2	1.96	1.03
2:A4:726:ALA:HA	3:A6:575:LEU:HB2	1.33	1.03
2:A4:768:SER:N	3:A6:476:PHE:CA	2.21	1.03
2:A4:781:ARG:CZ	6:D3:633:LYS:CE	2.29	1.03
2:A4:792:VAL:H	3:A6:187:THR:HB	0.94	1.03
2:A4:859:GLN:HG2	3:A6:176:LEU:HD21	1.38	1.03
2:A4:864:ARG:HB2	6:D3:607:PRO:N	1.67	1.03
2:A4:909:LYS:HD2	6:D3:555:ARG:NH2	1.74	1.03
3:A5:1091:VAL:HG12	11:I5:36:GLU:CD	1.66	1.03
3:A6:444:ARG:N	6:D3:737:PHE:CE2	2.25	1.03
11:I1:843:GLU:OE1	15:M1:590:LYS:HD2	1.59	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:881:ILE:N	17:O1:249:ARG:CB	2.20	1.03
11:I1:989:GLY:HA3	15:M1:614:ASP:OD1	1.56	1.03
11:I2:925:LEU:CA	15:M3:597:LYS:CG	2.30	1.03
11:I2:950:LEU:CD1	16:N3:410:MET:HB3	1.75	1.03
11:I2:967:SER:N	20:R3:153:GLN:CD	1.94	1.03
11:I2:981:VAL:HA	20:R3:147:LEU:HD21	1.06	1.03
11:I2:1046:HIS:H	17:O3:280:GLU:CA	1.71	1.03
11:I2:1109:LEU:HD11	17:O3:286:ILE:HG22	1.40	1.03
11:I2:1113:LEU:CD2	17:O3:282:LYS:CE	2.37	1.03
17:O2:111:TYR:N	18:P2:325:ILE:HG21	1.72	1.03
17:O4:109:PRO:HD2	18:P4:318:PRO:HG2	1.41	1.03
23:U1:274:GLN:CB	25:W2:189:SER:HB3	1.88	1.03
1:A1:1229:VAL:HG21	2:A2:725:GLU:HG2	1.04	1.03
2:A2:974:PRO:CD	6:D1:205:LEU:CD2	2.15	1.03
1:A3:1120:ASP:O	3:A6:599:ARG:CZ	2.06	1.03
1:A3:1121:LEU:O	3:A6:599:ARG:NH2	1.92	1.03
1:A3:1227:PRO:HG3	3:A6:682:ARG:HD3	1.05	1.03
1:A3:1231:VAL:HG22	3:A6:613:ALA:CA	1.88	1.03
1:A3:1245:ASP:CB	3:A6:588:SER:OG	2.06	1.03
1:A3:1249:PHE:CD1	3:A6:637:THR:OG1	2.10	1.03
1:A3:1274:ASP:HB3	3:A6:556:PRO:HD2	1.34	1.03
1:A3:1277:TRP:HB3	3:A6:556:PRO:HG2	1.29	1.03
2:A4:555:VAL:N	3:A6:458:THR:N	1.86	1.03
2:A4:871:ASN:CB	6:D3:568:ARG:O	2.06	1.03
3:A5:996:ASN:ND2	11:I5:54:LYS:O	1.90	1.03
3:A5:1406:GLY:H	28:Z2:917:ASP:C	1.59	1.03
11:I1:840:LEU:HB2	17:O1:243:LEU:HB2	1.36	1.03
11:I1:846:ILE:CG1	15:M1:591:ASP:HA	1.88	1.03
11:I1:900:ARG:CG	17:O1:232:LYS:HZ3	1.62	1.03
11:I1:923:GLY:CA	15:M1:589:GLY:O	2.07	1.03
11:I1:967:SER:HB3	15:M1:625:GLY:CA	1.75	1.03
11:I1:1066:LEU:CA	16:N1:430:ARG:HG2	1.89	1.03
11:I1:1109:LEU:H	16:N1:440:GLU:C	1.61	1.03
11:I2:797:LEU:HD22	17:O3:245:GLU:HG3	1.04	1.03
11:I2:950:LEU:HD22	16:N3:406:HIS:CD2	1.93	1.03
11:I2:954:GLU:HB3	16:N3:403:VAL:HA	1.41	1.03
11:I2:976:ARG:HH21	20:R3:143:PHE:CA	1.72	1.03
11:I2:1054:ILE:C	17:O3:281:ALA:H	1.61	1.03
21:S1:671:ALA:HB3	21:S2:1146:ALA:HB2	1.40	1.03
21:S3:679:ILE:CA	21:S4:1144:LEU:HD13	1.88	1.03
2:A2:1145:GLY:HA3	3:A5:129:ASN:ND2	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1054:SER:CA	6:D3:809:ALA:O	2.07	1.03
1:A3:1198:GLU:HB3	3:A6:678:LEU:CG	1.81	1.03
1:A3:1224:PRO:CB	3:A6:500:LYS:CB	2.14	1.03
1:A3:1244:LEU:CB	3:A6:633:MET:CE	2.33	1.03
2:A4:718:GLU:O	3:A6:513:GLN:HB2	1.56	1.03
2:A4:769:GLU:HB3	3:A6:528:ILE:CG2	1.89	1.03
2:A4:776:MET:HB3	3:A6:525:THR:HG23	1.40	1.03
2:A4:820:LYS:HB2	3:A6:148:GLY:O	1.59	1.03
2:A4:822:ILE:O	3:A6:564:ASN:O	1.76	1.03
2:A4:859:GLN:HB3	3:A6:134:VAL:H	1.22	1.03
2:A4:970:PHE:CE2	6:D3:498:GLU:OE2	2.12	1.03
3:A5:186:ILE:HB	5:C2:744:PHE:C	1.79	1.03
3:A5:1369:ILE:HG12	28:Z2:828:LEU:O	1.54	1.03
9:G1:263:MET:HB3	17:O2:260:LEU:HD22	1.39	1.03
11:I1:849:LEU:CD1	17:O1:247:TRP:CD2	2.42	1.03
11:I1:877:ILE:HG22	17:O1:253:LEU:H	1.19	1.03
11:I1:880:MET:HE1	17:O1:247:TRP:HZ3	1.20	1.03
11:I1:884:LEU:HD22	16:N1:396:ILE:HB	1.09	1.03
11:I1:942:HIS:O	17:O1:260:LEU:HB2	1.59	1.03
11:I1:1108:PRO:CB	16:N1:443:GLU:CB	2.37	1.03
11:I1:1665:LEU:CB	11:I2:1667:GLN:HG2	1.83	1.03
11:I2:884:LEU:CG	16:N3:400:LEU:HD11	1.87	1.03
11:I2:940:LEU:HD12	17:O3:258:GLU:O	1.57	1.03
11:I2:943:ALA:HA	17:O3:260:LEU:HD13	1.05	1.03
11:I3:1275:SER:CB	26:X1:522:MET:CB	2.37	1.03
21:S3:679:ILE:HA	21:S4:1144:LEU:HD13	1.05	1.03
2:A2:870:HIS:CE1	6:D1:566:PHE:CG	2.47	1.02
2:A2:873:PRO:O	6:D1:563:GLU:CB	2.06	1.02
2:A2:1128:ASP:C	3:A5:140:ALA:HB2	1.79	1.02
2:A2:1157:TYR:CG	3:A5:131:PRO:CB	2.14	1.02
1:A3:1194:HIS:ND1	3:A6:552:PHE:HE2	1.48	1.02
2:A4:171:HIS:NE2	6:D3:708:ASP:OD2	1.91	1.02
2:A4:778:PHE:CA	3:A6:487:ASP:OD1	2.05	1.02
2:A4:780:GLU:HB2	3:A6:524:ARG:CB	1.89	1.02
2:A4:789:LEU:HD21	3:A6:146:LYS:HG3	1.41	1.02
2:A4:801:THR:OG1	3:A6:381:LEU:HG	1.56	1.02
2:A4:826:ASN:ND2	3:A6:565:THR:HA	1.72	1.02
2:A4:878:LEU:HD23	6:D3:607:PRO:HB2	1.03	1.02
2:A4:893:LEU:HD12	3:A6:175:GLU:HG3	1.15	1.02
2:A4:972:GLY:HA2	6:D3:204:ASN:OD1	1.04	1.02
3:A5:996:ASN:HD22	11:I5:58:ALA:HB3	1.05	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1315:VAL:HB	28:Z2:833:ASP:O	1.59	1.02
3:A5:1405:LEU:HB2	28:Z2:918:PHE:CB	1.89	1.02
3:A6:444:ARG:NE	6:D3:733:ALA:CB	2.20	1.02
8:F1:1267:ARG:CG	17:O2:265:ASN:O	2.07	1.02
11:I1:840:LEU:HG	17:O1:244:GLU:HG3	1.07	1.02
11:I1:877:ILE:HG21	17:O1:253:LEU:N	1.69	1.02
11:I1:920:PHE:HZ	17:O1:247:TRP:CE2	1.76	1.02
11:I1:934:LEU:HD12	15:M1:599:ILE:O	1.58	1.02
11:I1:942:HIS:N	17:O1:259:ASP:C	2.11	1.02
11:I1:946:THR:O	16:N1:407:ALA:CB	2.07	1.02
11:I1:967:SER:HB3	15:M1:625:GLY:HA2	1.05	1.02
11:I1:1066:LEU:HB3	16:N1:430:ARG:HB3	1.33	1.02
11:I1:1107:SER:HB3	16:N1:440:GLU:OE1	1.23	1.02
11:I2:828:VAL:HG12	17:O3:237:PRO:HG2	1.37	1.02
11:I2:874:LEU:CB	17:O3:255:GLY:HA3	1.88	1.02
11:I2:887:GLN:HB2	16:N3:393:ILE:CG1	1.86	1.02
11:I2:942:HIS:CB	17:O3:259:ASP:CB	2.37	1.02
21:S1:652:VAL:C	21:S2:1156:ILE:O	1.97	1.02
21:S1:677:TYR:O	21:S2:1127:GLN:CB	2.05	1.02
21:S3:678:GLU:CB	21:S4:1141:GLU:N	2.22	1.02
1:A1:874:VAL:HG22	6:D3:272:VAL:HB	1.36	1.02
2:A2:876:ARG:HD2	6:D1:558:LYS:HG2	1.37	1.02
2:A2:980:ARG:NE	6:D1:525:ARG:HA	1.30	1.02
2:A2:989:MSE:CE	6:D1:240:ASP:C	2.26	1.02
1:A3:1186:TRP:H	3:A6:639:ASN:HA	1.19	1.02
1:A3:1196:GLU:OE1	3:A6:611:ILE:CG1	2.07	1.02
1:A3:1233:GLN:HG2	3:A6:578:ILE:CD1	1.89	1.02
2:A4:89:LEU:HD13	3:A6:406:LEU:HD12	1.05	1.02
2:A4:607:ARG:CG	3:A6:505:ALA:HB3	1.88	1.02
2:A4:615:LEU:HD23	3:A6:509:LYS:O	1.58	1.02
2:A4:722:ASN:HB3	3:A6:513:GLN:HG3	1.02	1.02
2:A4:735:ALA:C	3:A6:685:ARG:HH11	1.43	1.02
2:A4:760:LEU:HD13	3:A6:388:GLU:HG3	1.42	1.02
2:A4:804:GLN:NE2	3:A6:317:GLY:C	2.12	1.02
2:A4:861:GLN:CA	6:D3:607:PRO:CD	2.35	1.02
2:A4:870:HIS:O	6:D3:551:PHE:CG	2.12	1.02
2:A4:972:GLY:O	6:D3:206:VAL:HG12	1.60	1.02
3:A6:1370:ALA:CB	28:Z4:870:ILE:O	2.07	1.02
11:I1:873:ILE:CG2	17:O1:254:ARG:CG	2.33	1.02
11:I1:1020:ALA:C	16:N1:405:ALA:O	1.97	1.02
11:I1:1034:ASP:OD1	15:M1:627:LEU:CD2	2.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:884:LEU:CD1	16:N3:400:LEU:CD1	2.03	1.02
11:I2:1051:LYS:NZ	17:O3:285:LYS:HD2	1.72	1.02
11:I2:1055:GLU:HG3	17:O3:277:GLU:O	1.59	1.02
15:M1:507:GLN:CD	18:P1:318:PRO:HG2	1.78	1.02
2:A2:827:ILE:HA	2:A2:860:GLU:HA	1.04	1.02
1:A3:1203:TYR:CA	3:A6:91:LEU:CG	2.10	1.02
1:A3:1223:GLU:HG2	2:A4:734:LEU:HD11	1.04	1.02
1:A3:1248:ILE:HD13	3:A6:640:LEU:HD12	1.39	1.02
1:A3:1281:LEU:HD11	3:A6:577:ASP:O	1.58	1.02
2:A4:86:ASN:HB2	3:A6:393:HIS:C	1.78	1.02
2:A4:712:THR:HG21	3:A6:461:ALA:HB3	1.35	1.02
2:A4:720:LEU:CB	3:A6:493:ALA:O	2.08	1.02
2:A4:761:GLN:NE2	3:A6:535:PHE:CZ	2.28	1.02
2:A4:805:LEU:HD11	3:A6:469:PHE:CE2	1.24	1.02
2:A4:823:VAL:HG12	3:A6:130:ILE:HG23	1.39	1.02
2:A4:825:ARG:N	3:A6:138:LEU:CD1	2.02	1.02
2:A4:859:GLN:CB	3:A6:134:VAL:CG2	2.30	1.02
3:A5:164:LEU:C	5:C2:743:LEU:HB3	1.79	1.02
3:A5:1090:SER:C	11:I5:36:GLU:HG3	1.78	1.02
3:A5:1365:VAL:HG22	28:Z2:838:GLN:O	1.55	1.02
3:A5:1395:LYS:HG3	28:Z2:870:ILE:C	1.80	1.02
3:A6:1413:SER:CA	28:Z4:994:ILE:CB	2.38	1.02
11:I1:874:LEU:HD21	17:O1:252:VAL:HG13	1.03	1.02
11:I1:883:ALA:HB1	17:O1:243:LEU:HA	1.05	1.02
11:I1:934:LEU:N	15:M1:602:MET:HA	1.28	1.02
11:I1:940:LEU:C	17:O1:259:ASP:O	1.97	1.02
11:I1:955:LYS:NZ	16:N1:397:GLU:HA	1.73	1.02
11:I1:966:TRP:CG	20:R1:165:SER:O	2.11	1.02
11:I1:966:TRP:CZ3	20:R1:167:GLN:HG2	1.94	1.02
11:I1:1035:GLN:C	16:N1:441:PHE:HZ	1.42	1.02
11:I1:1051:LYS:HE3	17:O1:289:ASP:CA	1.69	1.02
11:I2:896:PRO:N	17:O3:233:THR:C	2.12	1.02
11:I2:917:TYR:CE2	15:M3:591:ASP:N	2.21	1.02
11:I2:920:PHE:C	15:M3:592:LEU:HA	1.53	1.02
11:I2:966:TRP:CZ3	20:R3:167:GLN:CB	2.43	1.02
11:I2:995:SER:CA	17:O3:267:ALA:HB3	1.88	1.02
11:I2:1017:VAL:CG2	16:N3:411:GLN:CA	1.81	1.02
11:I2:1029:LEU:HB3	20:R3:174:ARG:HG3	1.03	1.02
11:I2:1067:PHE:N	16:N3:430:ARG:CG	2.21	1.02
1:A1:1222:ALA:CA	2:A2:615:LEU:HD13	1.90	1.02
2:A2:874:VAL:H	6:D1:568:ARG:CA	1.67	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1159:ASP:CA	4:B5:342:ARG:N	2.23	1.02
1:A3:1117:ILE:HG22	3:A6:592:ASP:OD2	1.48	1.02
1:A3:1254:LEU:C	3:A6:634:ASP:HB3	1.80	1.02
1:A3:1278:PRO:CD	3:A6:624:ASP:HB2	1.89	1.02
2:A4:577:ASP:CB	3:A6:453:SER:OG	2.06	1.02
2:A4:688:TRP:HB2	3:A6:395:MET:HG2	1.40	1.02
2:A4:724:LEU:HB3	3:A6:496:THR:HG21	1.37	1.02
2:A4:727:ASN:ND2	3:A6:605:TYR:CD1	2.27	1.02
2:A4:767:ILE:CA	3:A6:470:ARG:CA	2.38	1.02
2:A4:779:ASP:HB2	3:A6:487:ASP:HB2	1.38	1.02
2:A4:780:GLU:OE1	6:D3:679:ILE:CG2	2.08	1.02
2:A4:780:GLU:CB	6:D3:679:ILE:HG12	1.70	1.02
2:A4:947:LYS:N	4:B6:348:PRO:O	1.92	1.02
2:A4:958:LEU:CD1	4:B6:342:ARG:C	1.98	1.02
2:A4:974:PRO:HA	6:D3:499:LEU:HD11	1.38	1.02
2:A4:985:ALA:CB	6:D3:496:LEU:O	2.07	1.02
3:A5:1056:PHE:HD2	11:I5:37:GLU:CG	1.73	1.02
3:A5:1416:ARG:CG	28:Z2:962:LYS:CB	2.07	1.02
3:A6:520:GLU:OE1	6:D3:636:ASP:HA	1.58	1.02
9:G1:263:MET:HA	16:N2:411:GLN:HB2	1.05	1.02
9:G1:263:MET:O	16:N2:411:GLN:HB2	1.57	1.02
9:G2:255:LEU:CA	17:O4:262:ASP:OD2	2.08	1.02
9:G2:257:THR:HG23	17:O4:256:TYR:N	1.70	1.02
11:I1:880:MET:CG	17:O1:247:TRP:CA	2.36	1.02
11:I1:952:LEU:O	16:N1:400:LEU:HD23	1.57	1.02
11:I1:1021:ILE:HG13	16:N1:410:MET:CB	1.89	1.02
11:I1:1036:PRO:O	15:M1:624:ASN:CA	2.06	1.02
11:I1:1052:LEU:HB2	16:N1:438:LEU:HD13	1.37	1.02
11:I2:1020:ALA:CB	16:N3:407:ALA:C	2.27	1.02
11:I2:1029:LEU:HA	20:R3:173:LEU:HB3	1.42	1.02
11:I2:1049:LEU:HG	17:O3:291:ASP:CG	1.78	1.02
11:I3:1267:LEU:CG	26:X1:497:ARG:NH2	2.20	1.02
11:I4:819:MET:HB2	26:X3:501:LYS:CD	1.88	1.02
23:U3:278:GLN:HG3	25:W4:189:SER:HB3	1.38	1.02
1:A1:870:HIS:HD1	6:D3:279:HIS:CE1	1.74	1.02
1:A1:1332:ARG:HH21	6:D1:685:VAL:HB	1.24	1.02
2:A2:866:SER:O	6:D1:598:ILE:HG23	0.84	1.02
2:A2:869:ALA:CB	6:D1:574:VAL:CG2	2.29	1.02
2:A2:1155:ASN:HD21	5:C2:735:ILE:HA	1.21	1.02
1:A3:1186:TRP:H	3:A6:639:ASN:CA	1.73	1.02
1:A3:1260:ALA:HB3	3:A6:719:ARG:CZ	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1267:GLN:OE1	3:A6:551:GLN:CB	2.08	1.02
2:A4:614:ALA:HB3	3:A6:502:THR:HG21	1.05	1.02
2:A4:677:ALA:CA	3:A6:98:LEU:HD12	1.82	1.02
2:A4:682:ARG:HB2	3:A6:431:PHE:CZ	1.20	1.02
2:A4:684:VAL:CG2	3:A6:395:MET:CG	2.36	1.02
2:A4:687:LEU:HD11	3:A6:476:PHE:CZ	1.94	1.02
2:A4:772:SER:H	3:A6:477:PHE:CB	1.73	1.02
2:A4:779:ASP:OD1	3:A6:486:GLN:HA	1.59	1.02
2:A4:827:ILE:CA	3:A6:132:ASP:HA	1.90	1.02
2:A4:828:ALA:O	6:D3:605:THR:OG1	1.76	1.02
2:A4:985:ALA:HB2	6:D3:496:LEU:O	1.59	1.02
2:A4:1155:ASN:HD21	5:C4:735:ILE:HA	1.20	1.02
3:A6:523:ASN:HD21	6:D3:635:ALA:HB3	1.24	1.02
4:B5:344:ALA:HB1	5:C2:737:LYS:CG	1.90	1.02
8:F1:1138:TRP:CG	17:O2:244:GLU:CD	2.31	1.02
9:G1:255:LEU:CD1	17:O2:257:ALA:HB3	1.90	1.02
11:I1:950:LEU:HB2	16:N1:407:ALA:N	1.71	1.02
11:I1:1029:LEU:CA	20:R1:171:ALA:O	2.07	1.02
11:I1:1030:ARG:N	20:R1:172:ASP:O	1.91	1.02
11:I1:1036:PRO:C	20:R1:173:LEU:HD21	1.74	1.02
11:I1:1040:HIS:HE2	16:N1:437:VAL:CG2	1.69	1.02
11:I1:1543:LEU:CD1	11:I2:1677:LYS:HE2	1.89	1.02
11:I2:881:ILE:HG13	17:O3:250:LEU:HA	1.41	1.02
11:I2:894:VAL:H	17:O3:239:GLN:HG2	0.90	1.02
11:I2:942:HIS:CG	17:O3:259:ASP:CG	2.32	1.02
11:I2:1014:ASN:CB	16:N3:413:VAL:O	2.06	1.02
11:I2:1607:GLN:O	12:J1:298:PHE:CD2	1.86	1.02
11:I3:1267:LEU:CD1	26:X1:497:ARG:NH1	2.21	1.02
11:I4:819:MET:CB	26:X3:501:LYS:NZ	2.21	1.02
17:O4:110:LEU:HB3	18:P4:321:ILE:HB	1.03	1.02
2:A2:224:PRO:HD2	6:D1:709:ARG:HH12	0.86	1.01
2:A2:1148:ARG:HH22	3:A5:169:TYR:CA	1.72	1.01
2:A2:1151:THR:O	3:A5:175:GLU:N	1.93	1.01
1:A3:1084:ARG:O	6:D3:797:GLY:CA	2.07	1.01
1:A3:1184:ASP:N	3:A6:642:ARG:CZ	2.20	1.01
1:A3:1225:PRO:CD	3:A6:548:LEU:CG	2.38	1.01
1:A3:1242:THR:CG2	3:A6:588:SER:N	2.23	1.01
2:A4:81:ALA:HA	3:A6:388:GLU:HB3	1.41	1.01
2:A4:543:GLY:O	3:A6:365:MET:N	1.83	1.01
2:A4:670:SER:CB	3:A6:542:LEU:CD2	2.35	1.01
2:A4:670:SER:CA	3:A6:542:LEU:HD21	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:683:LEU:HB3	3:A6:403:ARG:CZ	1.89	1.01
2:A4:720:LEU:CA	3:A6:494:PRO:CA	2.27	1.01
2:A4:720:LEU:HB3	3:A6:493:ALA:C	1.78	1.01
2:A4:720:LEU:HD21	3:A6:499:ILE:HD11	1.41	1.01
2:A4:737:PRO:C	3:A6:89:LEU:HB3	1.78	1.01
2:A4:771:ILE:N	3:A6:477:PHE:HB3	1.75	1.01
2:A4:782:VAL:N	3:A6:524:ARG:HD2	1.73	1.01
2:A4:792:VAL:HG11	3:A6:248:VAL:HG12	1.03	1.01
2:A4:798:LYS:HB2	3:A6:264:GLU:OE2	1.60	1.01
2:A4:806:PHE:HB2	3:A6:382:SER:OG	1.28	1.01
2:A4:827:ILE:HA	2:A4:860:GLU:HA	1.04	1.01
2:A4:868:GLN:HE21	6:D3:608:ILE:CD1	1.72	1.01
2:A4:904:GLN:HG3	3:A6:137:HIS:CE1	1.94	1.01
2:A4:908:LEU:CD2	6:D3:601:PHE:C	2.28	1.01
2:A4:987:LYS:HE2	6:D3:553:PHE:O	1.60	1.01
3:A5:1363:ASP:CB	28:Z2:871:HIS:O	1.99	1.01
3:A5:1373:GLY:O	28:Z2:814:THR:CB	2.06	1.01
5:C1:732:LYS:HE2	11:I1:1228:GLU:HG3	1.40	1.01
8:F1:1262:HIS:CE1	17:O2:259:ASP:N	2.26	1.01
9:G1:253:SER:CB	15:M2:601:ASP:HB3	1.76	1.01
11:I1:841:PHE:HB3	15:M1:588:MET:CB	1.85	1.01
11:I1:881:ILE:HD11	17:O1:253:LEU:HD12	1.08	1.01
11:I1:886:LEU:HB2	17:O1:242:ARG:HA	1.39	1.01
11:I1:931:VAL:HG11	15:M1:604:ASN:OD1	1.57	1.01
11:I1:1021:ILE:CD1	16:N1:410:MET:CG	2.37	1.01
11:I1:1104:LEU:CD1	16:N1:433:GLU:HA	1.90	1.01
11:I2:896:PRO:CA	17:O3:232:LYS:C	2.26	1.01
11:I2:900:ARG:HB2	17:O3:232:LYS:HD3	1.03	1.01
11:I2:987:GLY:N	15:M3:613:ASP:HB3	1.74	1.01
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD11	1.04	1.01
11:I3:1277:LEU:HD12	26:X1:522:MET:HG3	1.39	1.01
17:O3:147:ALA:CB	18:P3:328:PRO:HB2	1.89	1.01
21:S1:677:TYR:C	21:S2:1127:GLN:CB	2.28	1.01
2:A2:1136:LYS:HG3	3:A5:138:LEU:HB3	1.05	1.01
1:A3:1186:TRP:CD1	3:A6:640:LEU:N	2.28	1.01
1:A3:1188:ASN:O	3:A6:645:PHE:CG	2.13	1.01
1:A3:1189:LEU:HD13	3:A6:579:PHE:HE1	1.20	1.01
1:A3:1231:VAL:CG1	3:A6:617:VAL:CG2	2.38	1.01
1:A3:1278:PRO:HB3	3:A6:624:ASP:H	1.21	1.01
2:A4:227:SER:OG	6:D3:708:ASP:O	1.77	1.01
2:A4:713:ILE:H	3:A6:462:LEU:CD1	1.73	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:760:LEU:HD21	3:A6:98:LEU:CA	1.89	1.01
2:A4:767:ILE:N	3:A6:470:ARG:HA	1.73	1.01
2:A4:767:ILE:HB	3:A6:475:TYR:C	1.74	1.01
2:A4:776:MET:SD	3:A6:525:THR:CA	2.48	1.01
2:A4:826:ASN:ND2	3:A6:565:THR:CA	2.22	1.01
2:A4:976:LEU:CD2	6:D3:245:ARG:NH1	2.23	1.01
2:A4:986:THR:HG22	6:D3:504:LYS:HG3	1.37	1.01
3:A5:186:ILE:O	5:C2:746:PRO:CD	2.07	1.01
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB3	1.03	1.01
3:A6:442:ARG:HH22	6:D3:741:ILE:HA	0.89	1.01
8:F1:1138:TRP:CD1	17:O2:244:GLU:HG2	1.64	1.01
11:I1:888:GLU:HB2	17:O1:242:ARG:NH1	1.76	1.01
11:I1:947:LEU:HA	16:N1:407:ALA:HB1	1.11	1.01
11:I1:947:LEU:HB2	17:O1:256:TYR:CZ	1.94	1.01
11:I1:996:LEU:CD2	16:N1:410:MET:HE1	1.68	1.01
11:I1:1020:ALA:CA	16:N1:405:ALA:O	0.72	1.01
11:I1:1024:PHE:O	20:R1:172:ASP:CG	1.98	1.01
11:I1:1543:LEU:O	12:J2:300:ILE:CG2	2.08	1.01
11:I2:925:LEU:CD1	20:R3:156:GLY:HA2	1.89	1.01
11:I2:966:TRP:CZ3	20:R3:167:GLN:HB3	1.95	1.01
11:I2:983:LEU:HD23	15:M3:617:THR:HB	1.04	1.01
11:I2:1040:HIS:HB3	15:M3:619:ILE:HG21	1.37	1.01
11:I2:1043:LEU:N	15:M3:616:LEU:CD1	2.22	1.01
11:I5:1279:THR:OG1	26:X2:520:GLU:HA	1.57	1.01
17:O3:158:GLU:HG3	18:P3:316:LEU:CA	1.90	1.01
2:A2:989:MSE:HE1	6:D1:240:ASP:C	1.81	1.01
2:A2:1155:ASN:CG	3:A5:175:GLU:CG	2.29	1.01
1:A3:1196:GLU:CA	3:A6:608:VAL:HG12	1.89	1.01
1:A3:1244:LEU:CD2	3:A6:633:MET:CE	2.36	1.01
1:A3:1392:ARG:NE	3:A6:231:SER:HB2	1.75	1.01
2:A4:679:TYR:CD2	3:A6:510:TYR:HD1	1.78	1.01
2:A4:689:LYS:HD2	3:A6:336:ILE:CG1	1.91	1.01
2:A4:801:THR:CB	3:A6:381:LEU:HG	1.88	1.01
2:A4:852:ASP:HB2	3:A6:154:GLY:C	1.78	1.01
2:A4:868:GLN:NE2	6:D3:608:ILE:HB	1.74	1.01
2:A4:897:ASN:O	3:A6:176:LEU:HB3	1.60	1.01
2:A4:973:GLU:CA	6:D3:205:LEU:CB	2.39	1.01
2:A4:977:VAL:HA	6:D3:492:VAL:CG1	1.91	1.01
3:A5:164:LEU:C	5:C2:743:LEU:CB	2.27	1.01
3:A5:1024:ASP:CB	11:I5:94:GLU:O	2.09	1.01
3:A5:1368:GLN:NE2	28:Z2:840:PHE:CB	2.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1266:MET:HE2	17:O2:262:ASP:OD1	1.59	1.01
9:G1:252:LEU:HD22	17:O2:254:ARG:HD3	1.42	1.01
11:I1:837:MET:HE1	17:O1:242:ARG:CB	1.89	1.01
11:I1:879:VAL:O	17:O1:247:TRP:N	1.92	1.01
11:I1:920:PHE:CE1	17:O1:247:TRP:CD1	2.49	1.01
11:I1:954:GLU:HB3	16:N1:402:GLY:C	1.54	1.01
11:I1:976:ARG:N	20:R1:149:ARG:HG2	1.75	1.01
11:I1:976:ARG:HH22	15:M1:622:VAL:HG11	1.08	1.01
11:I1:1066:LEU:CB	16:N1:430:ARG:HB3	1.90	1.01
11:I2:874:LEU:O	17:O3:251:ILE:O	1.79	1.01
11:I2:1048:GLU:O	17:O3:287:LEU:CG	2.07	1.01
11:I2:1607:GLN:O	12:J1:298:PHE:CD1	1.92	1.01
17:O4:106:HIS:O	18:P4:318:PRO:CD	2.08	1.01
17:O4:107:THR:HA	18:P4:318:PRO:HG3	1.37	1.01
23:U3:278:GLN:CG	25:W4:189:SER:CB	2.31	1.01
2:A2:989:MSE:CE	6:D1:241:ALA:H	1.71	1.01
1:A3:1165:ASP:CB	3:A6:598:VAL:CG2	1.91	1.01
1:A3:1233:GLN:O	3:A6:601:PHE:CZ	2.13	1.01
1:A3:1281:LEU:N	3:A6:625:LEU:HG	1.11	1.01
1:A3:1325:MET:HG2	3:A6:126:ARG:HH21	1.22	1.01
2:A4:671:SER:O	3:A6:100:SER:HB3	0.84	1.01
2:A4:673:HIS:CE1	3:A6:388:GLU:O	2.14	1.01
2:A4:777:LEU:HG	3:A6:526:ILE:HA	1.14	1.01
2:A4:978:ASP:HB3	6:D3:476:VAL:HG23	1.38	1.01
3:A5:1098:ARG:CD	11:I5:29:GLN:NE2	2.22	1.01
3:A5:1414:PHE:CD1	28:Z2:960:CYS:CB	2.43	1.01
3:A6:446:LEU:HD23	6:D3:730:ARG:HG2	1.41	1.01
3:A6:1385:GLU:CD	28:Z4:903:ASN:O	1.99	1.01
8:F1:1137:GLN:HA	17:O2:248:SER:OG	1.38	1.01
11:I1:841:PHE:CD2	17:O1:243:LEU:HD12	1.90	1.01
11:I1:898:VAL:CG1	17:O1:235:ASN:O	2.09	1.01
11:I1:947:LEU:CA	16:N1:407:ALA:HB3	1.82	1.01
11:I1:1546:TRP:HB3	12:J2:300:ILE:HD13	1.03	1.01
11:I2:881:ILE:CB	17:O3:249:ARG:HG2	1.88	1.01
11:I2:921:GLU:C	15:M3:592:LEU:O	1.98	1.01
11:I2:966:TRP:CE3	20:R3:167:GLN:NE2	2.28	1.01
11:I2:1039:ALA:HB3	20:R3:170:LEU:CG	1.57	1.01
11:I2:1061:ASP:HB2	17:O3:278:GLU:CB	1.90	1.01
11:I5:1280:PRO:HG3	26:X2:523:LEU:HD12	1.40	1.01
17:O4:110:LEU:H	18:P4:318:PRO:HB3	1.23	1.01
1:A1:870:HIS:ND1	6:D3:279:HIS:ND1	2.03	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:969:ASP:O	6:D1:192:TYR:O	1.78	1.01
1:A3:1098:ARG:CB	11:I2:1414:CYS:SG	2.49	1.01
1:A3:1168:LEU:N	3:A6:594:LEU:HD22	1.74	1.01
1:A3:1249:PHE:HE1	3:A6:584:GLY:CA	1.67	1.01
1:A3:1260:ALA:HB2	3:A6:719:ARG:NH2	1.59	1.01
1:A3:1269:ALA:O	3:A6:554:GLN:HB3	1.60	1.01
2:A4:90:GLN:HB3	3:A6:428:GLN:CB	1.82	1.01
2:A4:611:ILE:CG2	3:A6:508:LEU:CB	2.01	1.01
2:A4:648:TYR:O	3:A6:505:ALA:N	1.92	1.01
2:A4:684:VAL:CG2	3:A6:395:MET:HG3	1.90	1.01
2:A4:713:ILE:H	3:A6:462:LEU:HD11	1.01	1.01
2:A4:717:VAL:HG21	3:A6:476:PHE:CB	1.89	1.01
2:A4:824:ASN:O	3:A6:138:LEU:HG	1.59	1.01
2:A4:859:GLN:HE21	3:A6:176:LEU:CD2	1.72	1.01
2:A4:864:ARG:HB2	6:D3:607:PRO:HD2	1.01	1.01
2:A4:977:VAL:HA	6:D3:492:VAL:HG12	1.39	1.01
3:A5:232:LEU:CD2	5:C2:736:ASN:O	2.09	1.01
3:A5:1026:PRO:O	11:I5:67:LYS:CA	2.08	1.01
3:A5:1399:ARG:HH11	28:Z2:909:LEU:HA	0.88	1.01
3:A6:1399:ARG:NH2	28:Z4:968:ARG:N	2.08	1.01
9:G1:267:GLY:CA	16:N2:414:ALA:C	2.30	1.01
11:I1:883:ALA:HB1	17:O1:243:LEU:C	1.77	1.01
11:I1:884:LEU:HD12	16:N1:400:LEU:HD11	1.41	1.01
11:I1:924:ILE:HG13	15:M1:596:ILE:HG13	1.20	1.01
11:I1:1017:VAL:HA	16:N1:407:ALA:O	1.60	1.01
11:I1:1109:LEU:HD12	17:O1:290:TYR:OH	1.61	1.01
11:I2:890:TYR:N	17:O3:242:ARG:HG3	1.76	1.01
11:I2:939:ASN:HA	17:O3:264:ILE:C	1.63	1.01
11:I2:950:LEU:CG	15:M3:606:LEU:HD21	1.73	1.01
11:I2:977:ASN:HB3	20:R3:147:LEU:HA	1.05	1.01
11:I2:1048:GLU:O	17:O3:287:LEU:CD2	2.08	1.01
11:I2:1049:LEU:HG	17:O3:291:ASP:CB	1.90	1.01
11:I2:1543:LEU:HD21	12:J1:300:ILE:O	1.18	1.01
11:I4:819:MET:HE1	26:X3:502:MET:HG2	1.37	1.01
1:A1:874:VAL:CG1	6:D3:272:VAL:HB	1.92	1.00
2:A2:781:ARG:NE	6:D1:673:ARG:CB	2.24	1.00
2:A2:825:ARG:NH1	6:D1:633:LYS:HD2	1.76	1.00
2:A2:1131:ILE:N	3:A5:141:GLY:N	1.76	1.00
2:A2:1137:ALA:HB3	3:A5:564:ASN:CB	1.78	1.00
2:A2:1139:ILE:HG21	3:A5:135:PHE:N	1.75	1.00
1:A3:1169:LEU:H	3:A6:594:LEU:HB2	1.24	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1241:ARG:HB2	3:A6:586:CYS:SG	2.00	1.00
1:A3:1267:GLN:OE1	3:A6:551:GLN:CA	2.08	1.00
1:A3:1274:ASP:HB2	3:A6:556:PRO:O	0.83	1.00
1:A3:1321:MET:CE	3:A6:571:ARG:HH21	1.52	1.00
2:A4:670:SER:N	3:A6:542:LEU:HD21	1.75	1.00
2:A4:676:LEU:CD1	3:A6:95:TYR:CE2	2.44	1.00
2:A4:691:LYS:HB3	3:A6:316:ARG:NH2	1.75	1.00
2:A4:771:ILE:CD1	3:A6:476:PHE:CE1	2.44	1.00
2:A4:780:GLU:CA	6:D3:679:ILE:HD11	1.80	1.00
2:A4:822:ILE:HG22	3:A6:526:ILE:HD11	1.40	1.00
6:D6:800:PRO:HG3	22:T3:765:LYS:HG2	1.42	1.00
8:F2:1090:PRO:HG3	17:O4:245:GLU:CD	1.78	1.00
11:I1:846:ILE:C	15:M1:594:LYS:HD3	1.58	1.00
11:I1:919:ALA:HB1	16:N1:389:PHE:O	1.55	1.00
11:I1:927:HIS:NE2	15:M1:594:LYS:HG3	1.76	1.00
11:I1:1026:TYR:CD1	20:R1:175:GLN:OE1	2.13	1.00
11:I2:850:ILE:CG2	15:M3:598:GLU:CD	2.29	1.00
11:I2:942:HIS:N	17:O3:259:ASP:O	1.94	1.00
11:I2:954:GLU:N	16:N3:403:VAL:HG22	1.75	1.00
11:I2:965:ALA:HB1	20:R3:153:GLN:O	1.59	1.00
11:I2:981:VAL:N	20:R3:147:LEU:CG	2.23	1.00
11:I2:1020:ALA:HB3	16:N3:410:MET:H	0.86	1.00
11:I3:1277:LEU:CG	26:X1:522:MET:CG	2.16	1.00
18:P1:277:PRO:CB	18:P4:323:GLN:H	1.72	1.00
21:S1:679:ILE:C	21:S2:1071:LEU:HD22	1.66	1.00
2:A2:876:ARG:CD	6:D1:558:LYS:HG2	1.92	1.00
2:A2:1148:ARG:HB3	3:A5:174:PRO:HD3	1.43	1.00
1:A3:1048:ARG:CZ	6:D3:790:ARG:HH22	1.73	1.00
1:A3:1083:SER:HB3	6:D3:798:MET:HE1	1.04	1.00
1:A3:1201:ARG:CB	3:A6:546:ASN:ND2	2.15	1.00
1:A3:1204:TRP:HB3	2:A4:731:ILE:HG23	1.39	1.00
1:A3:1221:ILE:CD1	2:A4:641:ALA:O	2.08	1.00
1:A3:1236:GLN:N	3:A6:581:LYS:CA	2.16	1.00
1:A3:1248:ILE:CD1	3:A6:640:LEU:HD12	1.90	1.00
2:A4:90:GLN:NE2	3:A6:427:MET:HA	1.69	1.00
2:A4:727:ASN:CG	3:A6:605:TYR:HA	1.80	1.00
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ3	1.27	1.00
2:A4:854:VAL:CG1	3:A6:174:PRO:CD	2.39	1.00
2:A4:875:LEU:HB2	6:D3:566:PHE:O	0.98	1.00
2:A4:970:PHE:HA	6:D3:192:TYR:OH	1.60	1.00
2:A4:975:GLU:CB	6:D3:501:LEU:CG	2.13	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:978:ASP:HB3	6:D3:476:VAL:HG22	1.44	1.00
3:A5:1369:ILE:CD1	28:Z2:833:ASP:H	1.73	1.00
3:A6:1364:GLN:NE2	28:Z4:879:PHE:O	1.93	1.00
6:D6:800:PRO:HG3	22:T3:765:LYS:HG3	1.12	1.00
11:I1:846:ILE:HD11	15:M1:594:LYS:HE3	1.37	1.00
11:I1:917:TYR:CZ	15:M1:586:ASP:O	2.15	1.00
11:I1:946:THR:C	16:N1:407:ALA:HB1	1.82	1.00
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD1	2.25	1.00
11:I2:890:TYR:C	17:O3:239:GLN:HA	1.13	1.00
11:I2:1072:ASN:N	16:N3:429:GLU:OE1	1.92	1.00
11:I2:1109:LEU:CB	16:N3:438:LEU:HA	1.83	1.00
11:I2:1113:LEU:HD21	17:O3:282:LYS:CE	1.91	1.00
11:I3:1267:LEU:HD12	26:X1:529:TRP:HA	1.40	1.00
21:S3:596:ILE:CB	21:S4:1155:GLN:HG3	1.89	1.00
1:A1:1221:ILE:CD1	2:A2:618:ALA:CB	2.40	1.00
2:A2:970:PHE:CA	6:D1:196:ILE:HD11	1.91	1.00
1:A3:1188:ASN:HD22	3:A6:646:ILE:HG13	1.25	1.00
1:A3:1242:THR:CG2	3:A6:588:SER:H	1.73	1.00
1:A3:1389:SER:HB3	3:A6:224:PRO:HB3	1.42	1.00
2:A4:79:ALA:HB1	3:A6:321:ASP:OD1	1.61	1.00
2:A4:536:ALA:C	3:A6:362:PHE:CE2	2.35	1.00
2:A4:676:LEU:HD11	3:A6:95:TYR:OH	1.61	1.00
2:A4:689:LYS:HB3	3:A6:336:ILE:HD11	1.43	1.00
2:A4:720:LEU:CD2	3:A6:495:ASP:N	2.23	1.00
2:A4:771:ILE:H	3:A6:477:PHE:HB2	1.11	1.00
2:A4:799:ASP:OD1	3:A6:250:PHE:CZ	2.15	1.00
2:A4:854:VAL:HG12	3:A6:174:PRO:CA	1.92	1.00
2:A4:975:GLU:O	6:D3:501:LEU:HB2	1.62	1.00
3:A5:1027:HIS:CG	11:I5:65:LYS:O	2.15	1.00
8:F1:1091:SER:OG	17:O2:237:PRO:O	1.77	1.00
11:I1:841:PHE:CZ	17:O1:243:LEU:CD1	2.43	1.00
11:I1:931:VAL:HG22	15:M1:604:ASN:H	1.21	1.00
11:I1:947:LEU:HD13	17:O1:256:TYR:CE2	1.97	1.00
11:I1:950:LEU:HB3	16:N1:407:ALA:N	1.71	1.00
11:I1:1104:LEU:CD2	16:N1:433:GLU:HG3	1.91	1.00
11:I1:1611:PHE:C	11:I2:1672:VAL:C	2.20	1.00
11:I2:883:ALA:HB3	17:O3:246:LEU:HB3	1.43	1.00
11:I2:884:LEU:CD1	15:M3:599:ILE:CD1	2.40	1.00
11:I2:950:LEU:HD21	16:N3:410:MET:SD	2.01	1.00
11:I2:956:ILE:O	20:R3:166:LEU:CG	2.09	1.00
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD1	2.08	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:812:ASN:O	26:X3:497:ARG:CB	2.09	1.00
11:I4:1277:LEU:HD23	26:X3:517:ASP:HB2	1.39	1.00
17:O3:155:VAL:HG21	18:P3:321:ILE:HG21	1.01	1.00
21:S1:671:ALA:H	21:S2:1146:ALA:HA	1.27	1.00
1:A1:870:HIS:C	6:D3:279:HIS:CB	2.28	1.00
2:A2:227:SER:N	6:D1:708:ASP:O	1.95	1.00
2:A2:1155:ASN:OD1	3:A5:175:GLU:CD	2.00	1.00
1:A3:1163:TYR:C	3:A6:647:GLU:HB2	1.80	1.00
1:A3:1186:TRP:HA	3:A6:641:ALA:N	1.76	1.00
1:A3:1226:LEU:CD2	3:A6:546:ASN:O	2.09	1.00
2:A4:85:VAL:CG1	3:A6:405:PHE:CD1	2.44	1.00
2:A4:672:ARG:CB	3:A6:96:PRO:CG	1.81	1.00
3:A6:441:THR:CG2	6:D3:717:LEU:HA	1.90	1.00
3:A6:1403:MSE:HE1	28:Z4:964:LEU:HA	1.01	1.00
3:A6:1411:ARG:HG2	26:X4:690:THR:H	1.25	1.00
11:I1:1108:PRO:CG	16:N1:443:GLU:CA	2.08	1.00
11:I1:1611:PHE:CB	11:I2:1672:VAL:HG22	1.92	1.00
11:I2:899:LEU:CD2	17:O3:235:ASN:CG	2.29	1.00
11:I2:920:PHE:HA	15:M3:592:LEU:CA	1.88	1.00
1:A1:1224:PRO:HD2	2:A2:734:LEU:HD22	1.40	1.00
1:A3:1332:ARG:NH2	6:D3:681:ALA:HB1	1.75	1.00
2:A4:680:LEU:HD21	3:A6:470:ARG:NH2	1.74	1.00
2:A4:861:GLN:NE2	6:D3:607:PRO:CB	2.24	1.00
2:A4:897:ASN:CA	3:A6:165:PHE:CA	2.39	1.00
3:A5:1369:ILE:HG23	28:Z2:831:LEU:H	1.27	1.00
11:I1:941:GLY:H	17:O1:260:LEU:C	1.65	1.00
11:I2:980:ILE:HB	15:M3:618:GLN:HA	1.08	1.00
11:I3:1271:GLU:CA	26:X1:525:ILE:HG22	1.91	1.00
2:A4:572:ARG:O	3:A6:454:GLN:HG3	1.61	1.00
2:A4:621:GLN:CD	3:A6:108:SER:O	1.97	1.00
2:A4:720:LEU:HB2	3:A6:512:GLU:CG	1.90	1.00
2:A4:826:ASN:ND2	3:A6:565:THR:CG2	2.23	1.00
2:A4:868:GLN:C	6:D3:570:VAL:CG1	2.30	1.00
2:A4:872:ALA:O	6:D3:565:MET:HA	1.21	1.00
2:A4:967:GLU:O	6:D3:202:GLN:CG	2.06	1.00
3:A6:1411:ARG:CG	26:X4:690:THR:H	1.67	1.00
11:I1:883:ALA:CB	17:O1:243:LEU:CA	2.39	1.00
11:I1:945:LEU:CD2	17:O1:258:GLU:CA	2.40	1.00
11:I1:977:ASN:ND2	15:M1:621:ARG:O	1.95	1.00
11:I1:1049:LEU:HD22	20:R1:146:LEU:HD21	1.43	1.00
11:I1:1114:VAL:HG13	16:N1:432:TYR:CG	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1109:LEU:HD22	17:O3:290:TYR:HD2	1.19	1.00
1:A1:1402:ASP:H	2:A2:884:ARG:NH1	1.60	1.00
2:A2:1132:PRO:HD3	3:A5:160:ILE:CG2	1.92	1.00
2:A2:1157:TYR:HD1	3:A5:134:VAL:CG2	1.72	1.00
1:A3:1191:ASN:ND2	3:A6:723:PHE:CD2	2.30	1.00
1:A3:1230:TYR:C	3:A6:575:LEU:C	2.18	1.00
2:A4:80:LYS:HG3	3:A6:323:THR:CG2	1.90	1.00
2:A4:703:SER:N	3:A6:399:ASP:HA	1.72	1.00
2:A4:855:THR:HG22	3:A6:168:ASP:O	1.58	1.00
3:A5:1369:ILE:HD11	28:Z2:833:ASP:N	1.76	1.00
3:A5:1374:ALA:O	28:Z2:814:THR:O	1.79	1.00
3:A6:1367:THR:CG2	28:Z4:872:TYR:O	2.09	1.00
9:G1:255:LEU:C	15:M2:602:MET:HB3	1.80	1.00
11:I1:828:VAL:O	17:O1:237:PRO:HG2	1.62	1.00
11:I1:947:LEU:N	16:N1:407:ALA:HB1	1.77	1.00
11:I2:917:TYR:CD2	15:M3:590:LYS:C	2.19	1.00
11:I2:1052:LEU:HD22	16:N3:438:LEU:CG	1.90	1.00
11:I2:1109:LEU:HG	16:N3:438:LEU:HD23	1.41	1.00
11:I3:1273:GLU:HG2	26:X1:535:ALA:HB2	1.02	1.00
11:I4:819:MET:HB2	26:X3:501:LYS:HZ3	1.01	1.00
2:A2:867:GLU:CG	6:D1:593:ARG:HH21	1.74	0.99
1:A3:1056:PHE:HD2	6:D3:805:GLY:O	1.45	0.99
1:A3:1237:LEU:CB	3:A6:582:ALA:CB	1.86	0.99
2:A4:647:GLU:HB2	3:A6:503:GLN:CG	1.91	0.99
2:A4:788:ARG:CA	3:A6:144:PHE:HA	1.83	0.99
2:A4:819:VAL:O	3:A6:562:LEU:HD11	1.10	0.99
2:A4:852:ASP:HB2	3:A6:154:GLY:O	0.83	0.99
4:B5:344:ALA:HB2	5:C2:740:ARG:HH22	1.22	0.99
8:F1:1093:LEU:CG	17:O2:241:SER:HA	1.92	0.99
8:F1:1264:ARG:CD	17:O2:263:GLN:O	2.10	0.99
11:I1:924:ILE:HG13	15:M1:596:ILE:CG1	1.68	0.99
11:I1:952:LEU:HA	16:N1:400:LEU:HD23	1.12	0.99
11:I2:980:ILE:HD11	20:R3:147:LEU:HA	1.43	0.99
11:I2:1038:ILE:CD1	15:M3:621:ARG:HG3	1.91	0.99
17:O4:109:PRO:O	18:P4:322:LYS:NZ	1.93	0.99
17:O4:111:TYR:CD1	18:P4:325:ILE:HD11	1.96	0.99
2:A2:873:PRO:HD3	6:D1:568:ARG:NE	1.78	0.99
2:A2:1136:LYS:HG2	3:A5:138:LEU:HB2	1.39	0.99
1:A3:1167:CYS:HB3	3:A6:643:ALA:HB1	1.39	0.99
1:A3:1221:ILE:HD13	2:A4:641:ALA:C	1.82	0.99
1:A3:1248:ILE:HD11	3:A6:587:VAL:CB	1.81	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:623:SER:N	3:A6:453:SER:HB3	1.71	0.99
2:A4:769:GLU:C	3:A6:528:ILE:CG2	2.30	0.99
2:A4:954:ILE:HG13	4:B6:346:LEU:N	1.78	0.99
2:A4:969:ASP:O	6:D3:192:TYR:CE2	2.15	0.99
3:A5:1374:ALA:HB1	28:Z2:823:ALA:CB	1.62	0.99
3:A6:1411:ARG:HH11	26:X4:689:ALA:CB	1.55	0.99
11:I1:880:MET:HB3	17:O1:250:LEU:HB2	1.44	0.99
11:I1:1052:LEU:HD12	17:O1:287:LEU:HD11	1.41	0.99
11:I2:899:LEU:CD2	17:O3:231:ASP:OD1	2.10	0.99
11:I2:1058:GLY:CA	17:O3:277:GLU:N	2.15	0.99
1:A1:1223:GLU:OE1	2:A2:761:GLN:CD	1.99	0.99
1:A3:1167:CYS:HB2	3:A6:643:ALA:HB1	1.42	0.99
1:A3:1269:ALA:C	3:A6:554:GLN:CB	2.31	0.99
1:A3:1393:THR:OG1	3:A6:228:GLY:C	2.00	0.99
2:A4:76:PRO:HD3	3:A6:322:ASP:HB2	1.39	0.99
2:A4:635:ARG:NH1	3:A6:600:LYS:C	2.15	0.99
2:A4:682:ARG:HH21	3:A6:104:PRO:C	1.56	0.99
2:A4:757:LEU:CD1	3:A6:543:GLY:H	1.74	0.99
2:A4:757:LEU:HD22	3:A6:95:TYR:CD2	1.82	0.99
3:A5:1027:HIS:ND1	11:I5:65:LYS:CB	2.21	0.99
11:I1:919:ALA:C	15:M1:592:LEU:CD2	2.31	0.99
11:I2:963:LEU:CA	20:R3:165:SER:OG	2.10	0.99
11:I2:991:THR:H	15:M3:611:LYS:HB2	1.25	0.99
11:I2:1054:ILE:CA	17:O3:281:ALA:N	2.24	0.99
11:I5:1279:THR:CG2	26:X2:520:GLU:CB	2.17	0.99
17:O4:110:LEU:N	18:P4:318:PRO:HB3	1.76	0.99
1:A3:1227:PRO:HD2	3:A6:551:GLN:H	1.26	0.99
1:A3:1241:ARG:HH22	3:A6:596:ARG:CB	1.74	0.99
2:A4:574:ARG:HH11	3:A6:453:SER:C	1.64	0.99
2:A4:691:LYS:HG3	3:A6:316:ARG:CD	1.72	0.99
2:A4:702:SER:O	3:A6:399:ASP:HB2	0.82	0.99
2:A4:762:LYS:NZ	3:A6:533:ALA:O	1.95	0.99
2:A4:864:ARG:CB	6:D3:607:PRO:CD	2.39	0.99
2:A4:874:VAL:O	6:D3:567:LEU:CB	2.09	0.99
2:A4:948:ALA:N	3:A6:235:TYR:HE1	1.38	0.99
2:A4:982:THR:CA	6:D3:502:LEU:HD22	1.87	0.99
8:F1:1261:TYR:CD2	17:O2:259:ASP:O	2.15	0.99
8:F2:1049:GLN:HE21	17:O4:237:PRO:HB3	1.20	0.99
9:G1:252:LEU:CA	15:M2:602:MET:SD	2.50	0.99
9:G1:253:SER:HB2	15:M2:605:THR:HG23	1.40	0.99
11:I1:990:GLU:HG2	17:O1:275:LEU:HD23	1.00	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1041:GLN:HB2	15:M1:620:VAL:HG23	1.42	0.99
11:I1:1051:LYS:N	17:O1:287:LEU:HA	1.31	0.99
11:I2:797:LEU:CD2	17:O3:245:GLU:CG	2.39	0.99
11:I2:911:PRO:HB2	15:M3:584:GLN:NE2	1.60	0.99
17:O4:111:TYR:CZ	18:P4:321:ILE:HD13	1.98	0.99
21:S1:660:LEU:HA	21:S2:1102:VAL:CG2	1.92	0.99
2:A2:223:THR:HB	6:D1:709:ARG:HH22	1.25	0.99
2:A2:1135:ARG:CD	3:A5:147:LEU:CD2	2.40	0.99
2:A2:1163:TYR:HD2	3:A5:133:LYS:HG2	1.23	0.99
2:A4:173:ASN:HD22	6:D3:762:ARG:CB	1.75	0.99
2:A4:680:LEU:O	3:A6:405:PHE:CZ	2.16	0.99
2:A4:948:ALA:HB3	4:B6:351:GLU:OE1	1.62	0.99
3:A6:485:ASN:HA	6:D3:673:ARG:C	1.82	0.99
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HD2	1.22	0.99
11:I1:881:ILE:CD1	17:O1:249:ARG:O	2.10	0.99
11:I1:895:ARG:HE	17:O1:233:THR:CB	1.76	0.99
11:I1:1035:GLN:HG3	15:M1:623:LEU:O	1.61	0.99
11:I2:797:LEU:HB3	17:O3:245:GLU:HG2	1.44	0.99
11:I2:887:GLN:HE22	16:N3:396:ILE:HD12	1.27	0.99
11:I2:980:ILE:HA	15:M3:618:GLN:HA	1.44	0.99
1:A3:1197:ALA:C	3:A6:678:LEU:HD21	1.81	0.99
1:A3:1204:TRP:CG	2:A4:731:ILE:HG23	1.96	0.99
1:A3:1249:PHE:CG	3:A6:637:THR:OG1	2.14	0.99
2:A4:682:ARG:CZ	3:A6:105:GLY:C	2.31	0.99
2:A4:729:SER:C	3:A6:678:LEU:HD21	1.83	0.99
2:A4:758:HIS:N	3:A6:544:PHE:CG	2.21	0.99
2:A4:823:VAL:CG1	3:A6:167:TRP:HZ2	1.63	0.99
8:F1:1262:HIS:NE2	17:O2:259:ASP:CB	2.12	0.99
8:F1:1264:ARG:HH12	17:O2:264:ILE:HD13	1.25	0.99
11:I1:924:ILE:CD1	15:M1:595:MET:CG	2.40	0.99
11:I1:1039:ALA:H	20:R1:169:GLY:HA3	0.84	0.99
11:I1:1602:PHE:HD1	11:I2:1666:THR:CG2	1.75	0.99
11:I2:977:ASN:HB2	20:R3:150:ASN:CB	1.80	0.99
1:A1:1204:TRP:HE3	2:A2:734:LEU:HD13	1.24	0.99
2:A2:1139:ILE:O	3:A5:130:ILE:C	1.71	0.99
1:A3:1195:PHE:CD2	3:A6:678:LEU:N	2.26	0.99
1:A3:1226:LEU:O	3:A6:551:GLN:CD	1.80	0.99
1:A3:1244:LEU:HA	3:A6:633:MET:HE1	1.43	0.99
1:A3:1259:CYS:HG	3:A6:624:ASP:HA	1.18	0.99
2:A4:675:ALA:HB1	3:A6:508:LEU:HB3	1.00	0.99
2:A4:778:PHE:HB2	3:A6:487:ASP:OD1	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:868:GLN:HE21	6:D3:608:ILE:HD12	1.22	0.99
2:A4:904:GLN:NE2	3:A6:136:GLU:OE2	1.94	0.99
2:A4:985:ALA:HB1	6:D3:500:LYS:CA	1.92	0.99
11:I1:983:LEU:HD12	15:M1:621:ARG:NH2	1.77	0.99
11:I1:1029:LEU:CB	20:R1:171:ALA:C	2.31	0.99
11:I2:898:VAL:HG12	17:O3:235:ASN:HB3	1.39	0.99
11:I2:983:LEU:O	15:M3:614:ASP:N	1.95	0.99
2:A2:874:VAL:HG22	6:D1:611:LYS:NZ	1.78	0.99
2:A2:981:PRO:HG2	6:D1:504:LYS:CG	1.92	0.99
2:A2:1132:PRO:CD	3:A5:160:ILE:HG23	1.91	0.99
1:A3:1186:TRP:CZ3	3:A6:637:THR:HG22	1.97	0.99
1:A3:1268:ASP:H	3:A6:553:ASP:N	1.59	0.99
2:A4:75:LEU:HD23	3:A6:323:THR:HG1	1.26	0.99
2:A4:536:ALA:O	3:A6:362:PHE:CZ	2.15	0.99
2:A4:874:VAL:HB	6:D3:571:SER:H	1.28	0.99
2:A4:945:ARG:O	4:B6:351:GLU:OE1	1.79	0.99
2:A4:1094:ILE:HG12	6:D4:759:GLN:NE2	1.76	0.99
3:A5:177:ILE:C	5:C2:740:ARG:CZ	2.25	0.99
3:A5:998:SER:CB	11:I5:62:GLU:OE1	2.11	0.99
3:A5:1365:VAL:CB	28:Z2:841:ALA:HB3	1.93	0.99
9:G1:263:MET:HA	16:N2:411:GLN:HB3	1.02	0.99
11:I1:919:ALA:CB	16:N1:389:PHE:C	2.17	0.99
11:I1:940:LEU:HD23	17:O1:262:ASP:HA	1.44	0.99
11:I1:951:LYS:HB3	17:O1:253:LEU:HD11	1.45	0.99
11:I1:992:ILE:H	15:M1:608:LYS:HG3	0.94	0.99
11:I3:1267:LEU:HD13	26:X1:497:ARG:NH1	1.78	0.99
11:I3:1277:LEU:HD13	26:X1:511:TYR:CE2	1.98	0.99
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG12	1.98	0.99
1:A3:1021:LEU:CD1	6:D3:816:VAL:CA	2.40	0.99
2:A4:692:VAL:HG13	3:A6:467:LEU:HA	1.00	0.99
2:A4:827:ILE:HA	3:A6:132:ASP:HA	1.41	0.99
3:A5:1029:ILE:H	11:I5:68:ILE:CA	1.75	0.99
11:I1:952:LEU:CB	16:N1:400:LEU:HD22	1.93	0.99
11:I1:981:VAL:HG13	20:R1:151:LYS:HB2	1.42	0.99
2:A2:1135:ARG:HE	3:A5:134:VAL:HG13	1.27	0.99
1:A3:1241:ARG:HH22	3:A6:596:ARG:HB3	0.86	0.99
2:A4:761:GLN:HB2	3:A6:535:PHE:CD1	1.98	0.99
2:A4:889:VAL:HG11	3:A6:171:HIS:HB3	1.41	0.99
2:A4:989:MSE:CE	6:D3:240:ASP:CG	2.31	0.99
2:A4:1054:SER:HB2	6:D4:762:ARG:HE	1.26	0.99
3:A5:1313:LYS:N	28:Z2:830:LEU:O	1.96	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:253:SER:CB	15:M2:601:ASP:CB	2.14	0.99
11:I1:841:PHE:CD2	17:O1:243:LEU:HD11	1.92	0.99
11:I1:880:MET:HB2	17:O1:250:LEU:HB2	1.25	0.99
11:I1:996:LEU:HD22	16:N1:410:MET:HE2	1.00	0.99
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG21	1.43	0.99
11:I2:887:GLN:C	16:N3:393:ILE:CG2	2.09	0.99
11:I2:925:LEU:CD1	20:R3:156:GLY:N	2.25	0.99
11:I2:981:VAL:HB	20:R3:147:LEU:CG	1.93	0.99
11:I2:1053:GLY:O	17:O3:279:ILE:O	1.81	0.99
2:A2:868:GLN:HB3	6:D1:570:VAL:CG1	1.93	0.98
2:A2:1094:ILE:HD11	6:D2:759:GLN:NE2	1.74	0.98
1:A3:1172:HIS:HB2	3:A6:587:VAL:C	1.80	0.98
1:A3:1248:ILE:HD11	3:A6:587:VAL:HG23	1.44	0.98
1:A3:1267:GLN:OE1	3:A6:551:GLN:C	2.01	0.98
2:A4:550:VAL:C	3:A6:455:LEU:HD21	1.54	0.98
2:A4:643:ALA:CA	3:A6:501:VAL:HG12	1.93	0.98
2:A4:673:HIS:CE1	3:A6:541:PRO:HB3	1.98	0.98
2:A4:909:LYS:CG	6:D3:555:ARG:HH11	1.74	0.98
3:A5:1026:PRO:C	11:I5:68:ILE:H	1.63	0.98
3:A6:136:GLU:C	6:D3:603:SER:CB	2.28	0.98
6:D6:796:ALA:O	22:T3:768:ASN:ND2	1.96	0.98
6:D6:800:PRO:HB3	22:T3:765:LYS:HB2	1.45	0.98
11:I1:884:LEU:HD12	17:O1:246:LEU:HD21	1.42	0.98
11:I1:941:GLY:N	17:O1:259:ASP:O	1.96	0.98
11:I1:949:CYS:O	16:N1:403:VAL:HG11	1.61	0.98
11:I1:950:LEU:CD2	16:N1:406:HIS:HD2	1.35	0.98
11:I2:884:LEU:CD1	15:M3:599:ILE:HD11	1.91	0.98
11:I2:1065:SER:HB2	17:O3:274:GLY:O	1.62	0.98
2:A2:227:SER:CB	6:D1:711:PHE:HD2	1.75	0.98
2:A2:867:GLU:N	6:D1:605:THR:HB	1.77	0.98
2:A2:873:PRO:O	6:D1:563:GLU:CG	2.10	0.98
2:A2:982:THR:HG21	6:D1:494:LEU:CA	1.91	0.98
2:A2:1114:ILE:CD1	5:C2:731:LYS:HB2	1.92	0.98
2:A2:1149:THR:H	3:A5:172:PRO:N	1.58	0.98
1:A3:1224:PRO:CB	2:A4:731:ILE:CG1	2.16	0.98
1:A3:1248:ILE:HG12	3:A6:587:VAL:C	1.82	0.98
2:A4:688:TRP:NE1	3:A6:394:LEU:HG	1.77	0.98
2:A4:1114:ILE:CD1	5:C4:731:LYS:HB2	1.92	0.98
8:F2:1091:SER:N	17:O4:245:GLU:N	1.96	0.98
11:I1:920:PHE:HB2	17:O1:243:LEU:HD22	1.46	0.98
11:I1:950:LEU:CB	16:N1:407:ALA:H	1.60	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:980:ILE:HG13	20:R1:147:LEU:HD12	1.43	0.98
11:I2:841:PHE:CG	15:M3:588:MET:HG3	1.97	0.98
11:I2:896:PRO:N	17:O3:233:THR:O	1.87	0.98
21:S1:597:ILE:N	21:S2:1119:LEU:N	2.11	0.98
2:A2:864:ARG:CZ	6:D1:610:ASN:HD21	1.68	0.98
2:A2:980:ARG:HE	6:D1:525:ARG:CA	1.74	0.98
1:A3:1163:TYR:HD1	3:A6:648:TYR:HB3	0.89	0.98
1:A3:1393:THR:CB	3:A6:227:SER:O	2.11	0.98
2:A4:806:PHE:CB	3:A6:382:SER:HB2	1.84	0.98
2:A4:859:GLN:CG	3:A6:176:LEU:CD2	2.41	0.98
2:A4:1114:ILE:HD11	5:C4:731:LYS:HG3	1.41	0.98
3:A5:1406:GLY:H	28:Z2:918:PHE:CA	1.76	0.98
11:I1:912:VAL:N	15:M1:584:GLN:HE21	1.56	0.98
11:I1:1607:GLN:CG	11:I2:1739:GLU:N	2.17	0.98
11:I1:1611:PHE:CE2	11:I2:1669:ARG:CZ	2.41	0.98
11:I2:1046:HIS:N	17:O3:280:GLU:CA	2.26	0.98
11:I3:1273:GLU:N	26:X1:526:CYS:N	1.66	0.98
2:A2:870:HIS:CG	6:D1:566:PHE:CD1	2.51	0.98
2:A2:1154:PHE:CG	3:A5:175:GLU:OE1	2.15	0.98
1:A3:1132:PRO:CD	3:A6:653:ARG:HH22	1.75	0.98
1:A3:1189:LEU:CG	3:A6:641:ALA:HA	1.70	0.98
1:A3:1251:VAL:CA	3:A6:634:ASP:HB2	1.92	0.98
2:A4:822:ILE:CG2	3:A6:526:ILE:HD12	1.67	0.98
11:I1:884:LEU:HG	17:O1:246:LEU:CG	1.73	0.98
11:I1:945:LEU:HD11	17:O1:254:ARG:O	1.04	0.98
11:I1:1049:LEU:CB	17:O1:291:ASP:HB2	1.74	0.98
11:I1:1668:HIS:N	11:I2:1664:PHE:C	2.16	0.98
11:I2:948:ALA:HA	17:O3:253:LEU:HD23	1.42	0.98
11:I2:982:GLN:HB3	15:M3:621:ARG:NH1	1.78	0.98
11:I2:1052:LEU:CG	17:O3:283:ALA:HB1	1.93	0.98
11:I3:1273:GLU:CA	26:X1:523:LEU:HA	1.93	0.98
1:A1:1200:ARG:NE	2:A2:642:ARG:NH2	2.11	0.98
2:A2:873:PRO:O	6:D1:563:GLU:CD	2.00	0.98
1:A3:1056:PHE:CE2	6:D3:806:ASP:O	2.16	0.98
1:A3:1225:PRO:HD3	3:A6:497:GLY:CA	1.92	0.98
1:A3:1236:GLN:NE2	3:A6:573:ARG:NE	2.10	0.98
2:A4:227:SER:HB2	6:D3:712:ASP:H	1.28	0.98
2:A4:607:ARG:HA	3:A6:506:SER:CB	1.92	0.98
2:A4:771:ILE:HD13	3:A6:478:ASP:CB	1.94	0.98
2:A4:789:LEU:HD23	3:A6:145:THR:O	1.64	0.98
2:A4:889:VAL:HG21	3:A6:174:PRO:HB3	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:255:LEU:N	15:M2:602:MET:CB	2.19	0.98
9:G2:256:GLN:CG	17:O4:262:ASP:H	1.76	0.98
11:I1:874:LEU:CD2	17:O1:252:VAL:CG1	2.41	0.98
11:I1:939:ASN:O	17:O1:265:ASN:CB	2.10	0.98
11:I1:980:ILE:HD13	15:M1:622:VAL:N	1.43	0.98
11:I1:983:LEU:CD1	15:M1:621:ARG:HH21	1.75	0.98
11:I1:1071:LEU:H	16:N1:429:GLU:CG	1.73	0.98
11:I1:1114:VAL:HG23	16:N1:435:ALA:CB	1.80	0.98
11:I2:945:LEU:HD13	17:O3:255:GLY:C	1.83	0.98
11:I2:1044:GLY:O	17:O3:280:GLU:CG	2.11	0.98
17:O4:110:LEU:CD2	18:P4:321:ILE:CB	2.42	0.98
1:A1:1204:TRP:CE3	2:A2:734:LEU:CD1	2.45	0.98
2:A2:780:GLU:N	6:D1:678:GLY:N	2.12	0.98
2:A2:1149:THR:N	3:A5:172:PRO:CG	2.27	0.98
1:A3:1189:LEU:HB3	3:A6:641:ALA:HB1	1.40	0.98
1:A3:1278:PRO:HG2	3:A6:624:ASP:HB2	1.27	0.98
1:A3:1282:PHE:H	3:A6:625:LEU:HB3	0.82	0.98
2:A4:616:ALA:HB1	3:A6:109:ASP:OD1	1.61	0.98
2:A4:760:LEU:CG	3:A6:98:LEU:HB2	1.93	0.98
2:A4:808:GLN:HE21	3:A6:383:PRO:HG3	1.29	0.98
11:I1:833:PHE:CZ	17:O1:241:SER:HB3	1.60	0.98
11:I1:880:MET:HB2	17:O1:250:LEU:CA	1.91	0.98
11:I1:1041:GLN:CA	15:M1:620:VAL:HG23	1.93	0.98
11:I1:1049:LEU:CB	20:R1:146:LEU:CD1	2.40	0.98
11:I1:1108:PRO:CB	16:N1:443:GLU:HB2	1.93	0.98
11:I1:1110:SER:OG	16:N1:437:VAL:HB	1.64	0.98
11:I1:1113:LEU:HB2	16:N1:435:ALA:CB	1.94	0.98
2:A2:867:GLU:H	6:D1:605:THR:CB	1.69	0.98
2:A2:1155:ASN:CB	3:A5:175:GLU:HG3	1.71	0.98
2:A2:1157:TYR:HD1	3:A5:134:VAL:HG23	0.87	0.98
1:A3:1249:PHE:CD2	3:A6:633:MET:SD	2.57	0.98
2:A4:717:VAL:CG1	3:A6:492:SER:O	2.12	0.98
2:A4:824:ASN:OD1	2:A4:859:GLN:OE1	1.75	0.98
3:A5:232:LEU:HD11	5:C2:739:MET:HG3	1.42	0.98
3:A5:996:ASN:C	11:I5:61:LYS:N	2.14	0.98
3:A6:1399:ARG:NH2	28:Z4:968:ARG:H	1.60	0.98
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD13	1.64	0.98
11:I2:1034:ASP:CG	15:M3:630:LEU:HD13	1.83	0.98
11:I4:816:ASP:CG	26:X3:497:ARG:NH1	2.17	0.98
17:O4:106:HIS:O	18:P4:318:PRO:HG2	1.64	0.98
2:A2:864:ARG:NH1	6:D1:610:ASN:CG	2.13	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1254:LEU:CA	3:A6:634:ASP:HB3	1.86	0.98
1:A3:1254:LEU:HA	3:A6:638:GLU:CD	1.84	0.98
2:A4:89:LEU:HD11	3:A6:404:LEU:O	1.11	0.98
2:A4:676:LEU:HG	3:A6:499:ILE:HD13	1.43	0.98
2:A4:691:LYS:CD	3:A6:316:ARG:HD2	1.80	0.98
2:A4:737:PRO:HA	3:A6:89:LEU:HB3	1.43	0.98
2:A4:868:GLN:CD	6:D3:608:ILE:HD12	1.83	0.98
3:A5:232:LEU:HD22	5:C2:736:ASN:O	1.64	0.98
3:A5:1391:ARG:CA	28:Z2:871:HIS:CA	2.38	0.98
3:A6:445:THR:HG21	6:D3:716:ARG:O	1.62	0.98
3:A6:1160:GLN:NE2	5:C6:740:ARG:HD2	1.79	0.98
11:I1:878:GLN:N	17:O1:252:VAL:N	2.12	0.98
11:I1:1048:GLU:HG2	17:O1:288:GLU:HG3	1.46	0.98
11:I2:967:SER:H	20:R3:153:GLN:NE2	1.58	0.98
11:I2:1029:LEU:N	20:R3:173:LEU:N	2.06	0.98
11:I2:1029:LEU:HD22	16:N3:437:VAL:CG2	1.94	0.98
21:S1:670:ILE:N	21:S2:1146:ALA:HA	1.78	0.98
23:U1:275:GLU:HB2	25:W2:190:ASP:HA	1.45	0.98
2:A2:780:GLU:CB	6:D1:677:GLN:O	2.12	0.98
2:A2:987:LYS:HD2	6:D1:555:ARG:CZ	1.93	0.98
2:A2:1114:ILE:HD11	5:C2:731:LYS:HG3	1.41	0.98
2:A4:677:ALA:H	3:A6:98:LEU:CA	1.63	0.98
2:A4:717:VAL:HG22	3:A6:512:GLU:OE1	1.64	0.98
2:A4:727:ASN:OD1	3:A6:605:TYR:C	2.02	0.98
2:A4:757:LEU:CD1	3:A6:543:GLY:N	2.27	0.98
3:A5:999:SER:HG	11:I5:63:PRO:HD2	1.17	0.98
3:A6:564:ASN:ND2	6:D3:679:ILE:HD11	1.79	0.98
11:I1:984:GLU:C	15:M1:613:ASP:HA	1.83	0.98
11:I1:1108:PRO:HD3	16:N1:443:GLU:HB3	1.45	0.98
11:I1:1114:VAL:H	16:N1:435:ALA:HB1	1.17	0.98
11:I1:1607:GLN:HG3	11:I2:1739:GLU:CB	1.94	0.98
11:I1:1607:GLN:O	12:J2:298:PHE:CD1	2.07	0.98
11:I2:833:PHE:HZ	17:O3:242:ARG:HA	1.27	0.98
11:I2:1106:LYS:HB3	16:N3:440:GLU:HG3	1.44	0.98
18:P2:319:VAL:CG2	18:P3:278:ASN:ND2	2.27	0.98
1:A3:1261:TYR:CB	3:A6:621:GLN:N	2.27	0.98
2:A4:678:LEU:HD21	3:A6:103:ARG:C	1.84	0.98
2:A4:712:THR:CG2	3:A6:461:ALA:HB3	1.93	0.98
2:A4:895:PRO:HA	4:B6:344:ALA:CB	1.94	0.98
2:A4:950:ASP:OD1	4:B6:348:PRO:HA	1.31	0.98
3:A6:1410:ALA:CA	26:X4:686:ASP:CB	2.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:837:MET:HE1	17:O1:242:ARG:CA	1.91	0.98
11:I1:996:LEU:HD23	16:N1:410:MET:HE2	1.44	0.98
11:I1:1611:PHE:CB	11:I2:1672:VAL:CG2	2.41	0.98
11:I2:1048:GLU:CG	17:O3:288:GLU:CG	2.42	0.98
11:I2:1054:ILE:C	17:O3:281:ALA:HB3	1.82	0.98
21:S1:671:ALA:CB	21:S2:1146:ALA:H	1.75	0.98
1:A1:1052:THR:HG22	6:D1:812:VAL:HG12	1.42	0.97
1:A1:1199:GLN:O	2:A2:730:THR:CA	2.08	0.97
2:A2:867:GLU:N	6:D1:605:THR:CB	2.23	0.97
2:A2:980:ARG:HD3	6:D1:503:LEU:HB2	1.45	0.97
1:A3:1271:ILE:HG23	3:A6:553:ASP:HB3	1.44	0.97
1:A3:1279:ILE:C	3:A6:625:LEU:HA	1.80	0.97
1:A3:1306:PRO:HB3	3:A6:715:GLU:HB3	0.99	0.97
2:A4:712:THR:HG23	3:A6:461:ALA:HB1	1.46	0.97
2:A4:768:SER:N	3:A6:476:PHE:N	2.12	0.97
3:A5:1160:GLN:NE2	5:C5:740:ARG:HD2	1.79	0.97
3:A5:1300:LEU:HG	28:Z2:838:GLN:CB	1.94	0.97
3:A5:1416:ARG:HG3	28:Z2:962:LYS:CB	1.61	0.97
11:I1:884:LEU:HD12	16:N1:400:LEU:HD12	1.00	0.97
11:I1:938:CYS:CA	15:M1:606:LEU:HD12	1.94	0.97
11:I5:1279:THR:HG23	26:X2:520:GLU:HB2	1.35	0.97
17:O2:110:LEU:CD2	18:P2:321:ILE:O	2.07	0.97
21:S3:678:GLU:CB	21:S4:1144:LEU:H	1.76	0.97
1:A1:1332:ARG:CZ	6:D1:682:ASN:H	1.77	0.97
1:A3:1118:GLN:CB	3:A6:592:ASP:OD1	2.10	0.97
1:A3:1170:ILE:HA	3:A6:590:SER:C	1.82	0.97
1:A3:1257:VAL:HB	3:A6:638:GLU:OE2	0.89	0.97
2:A4:611:ILE:CB	3:A6:508:LEU:HB2	1.84	0.97
2:A4:802:TYR:CD2	3:A6:397:LEU:HD23	1.99	0.97
2:A4:976:LEU:HD21	6:D3:245:ARG:HH11	1.25	0.97
2:A4:985:ALA:CB	6:D3:500:LYS:N	2.26	0.97
3:A5:1379:GLY:HA2	28:Z2:816:THR:H	1.27	0.97
4:B5:344:ALA:HB1	5:C2:737:LYS:HD3	1.04	0.97
6:D7:530:ARG:CB	11:I3:181:GLN:CB	2.25	0.97
11:I1:987:GLY:H	15:M1:613:ASP:C	1.66	0.97
11:I2:1024:PHE:CB	16:N3:406:HIS:CE1	2.44	0.97
11:I2:1039:ALA:CA	20:R3:170:LEU:HD11	1.86	0.97
17:O3:148:ARG:NH1	18:P3:325:ILE:CG2	2.21	0.97
21:S1:679:ILE:O	21:S2:1071:LEU:HD22	1.62	0.97
1:A3:1277:TRP:CZ3	3:A6:622:GLY:CA	2.48	0.97
2:A4:81:ALA:CA	3:A6:388:GLU:HB3	1.93	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:231:SER:CB	6:D3:709:ARG:HH21	1.77	0.97
2:A4:549:ALA:HB1	3:A6:365:MET:HE1	1.44	0.97
2:A4:616:ALA:HB3	3:A6:509:LYS:HD2	1.46	0.97
2:A4:643:ALA:O	3:A6:503:GLN:HB2	1.62	0.97
2:A4:781:ARG:HH11	6:D3:673:ARG:NH1	1.60	0.97
2:A4:826:ASN:HD21	3:A6:565:THR:CB	1.71	0.97
2:A4:859:GLN:HB3	3:A6:134:VAL:CG2	1.92	0.97
2:A4:863:GLN:N	3:A6:132:ASP:C	2.01	0.97
2:A4:878:LEU:CD2	6:D3:607:PRO:CG	2.27	0.97
11:I1:884:LEU:CD2	16:N1:396:ILE:CB	2.30	0.97
11:I1:925:LEU:CB	20:R1:164:PRO:O	2.12	0.97
11:I1:1104:LEU:HD21	16:N1:433:GLU:HG3	1.45	0.97
11:I2:875:ARG:O	17:O3:251:ILE:HB	1.64	0.97
11:I2:899:LEU:HD11	17:O3:234:LEU:HB3	1.47	0.97
11:I2:1040:HIS:CB	15:M3:619:ILE:HG22	1.92	0.97
11:I2:1042:LEU:O	16:N3:430:ARG:NH2	1.98	0.97
11:I2:1059:PRO:CB	17:O3:274:GLY:C	2.32	0.97
11:I4:1270:LYS:CE	26:X3:527:VAL:HG12	1.67	0.97
2:A2:1148:ARG:NH2	3:A5:169:TYR:C	2.17	0.97
1:A3:1166:LEU:N	3:A6:648:TYR:HE2	1.62	0.97
1:A3:1192:GLN:HE21	3:A6:611:ILE:HA	1.24	0.97
1:A3:1201:ARG:HA	3:A6:546:ASN:ND2	1.76	0.97
2:A4:763:LEU:CG	3:A6:470:ARG:CD	2.35	0.97
2:A4:795:GLN:O	3:A6:250:PHE:CE2	2.18	0.97
2:A4:861:GLN:C	6:D3:607:PRO:CD	2.29	0.97
2:A4:867:GLU:N	6:D3:598:ILE:HG12	1.79	0.97
2:A4:868:GLN:C	6:D3:570:VAL:HG11	1.83	0.97
2:A4:889:VAL:CG2	3:A6:174:PRO:HA	1.94	0.97
2:A4:898:LEU:HB2	3:A6:177:ILE:HA	1.46	0.97
2:A4:949:PHE:C	4:B6:347:LEU:CD2	2.30	0.97
3:A6:1416:ARG:O	28:Z4:1002:MET:N	1.96	0.97
8:F1:1137:GLN:CG	17:O2:248:SER:CB	2.43	0.97
11:I1:952:LEU:CD1	16:N1:400:LEU:HD22	1.77	0.97
11:I1:1020:ALA:CB	16:N1:407:ALA:N	2.28	0.97
11:I3:1273:GLU:HA	26:X1:523:LEU:CA	1.86	0.97
11:I4:813:ILE:O	26:X3:496:THR:HA	1.62	0.97
11:I4:1271:GLU:O	26:X3:521:TRP:CD1	2.17	0.97
21:S1:597:ILE:CA	21:S2:1120:PRO:CD	2.39	0.97
2:A2:986:THR:HG21	6:D1:504:LYS:HD2	1.46	0.97
2:A2:1155:ASN:ND2	5:C2:735:ILE:HA	1.80	0.97
1:A3:1195:PHE:HA	3:A6:678:LEU:HB3	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1230:TYR:CD1	3:A6:613:ALA:HB2	2.00	0.97
1:A3:1235:ILE:HD11	3:A6:617:VAL:HG22	1.47	0.97
2:A4:547:GLU:O	3:A6:455:LEU:HD22	1.63	0.97
2:A4:773:PHE:HD1	3:A6:469:PHE:CZ	1.83	0.97
2:A4:816:LYS:HG2	3:A6:157:TRP:NE1	1.79	0.97
2:A4:868:GLN:OE1	6:D3:570:VAL:C	2.03	0.97
2:A4:879:LEU:H	6:D3:567:LEU:CD1	1.64	0.97
3:A5:172:PRO:HD2	5:C2:730:HIS:HB2	1.44	0.97
3:A5:172:PRO:CG	5:C2:730:HIS:ND1	2.27	0.97
3:A6:1365:VAL:HA	28:Z4:878:HIS:CA	1.94	0.97
8:F1:1261:TYR:CE1	17:O2:263:GLN:HB3	1.98	0.97
11:I1:884:LEU:CD1	16:N1:400:LEU:HD12	1.92	0.97
11:I1:894:VAL:HG21	17:O1:238:ALA:CA	1.95	0.97
11:I1:1021:ILE:HA	16:N1:406:HIS:CG	1.99	0.97
11:I1:1046:HIS:HB3	17:O1:280:GLU:O	1.64	0.97
11:I1:1052:LEU:HB2	16:N1:438:LEU:CD1	1.37	0.97
11:I1:1100:ILE:O	20:R1:174:ARG:NH2	1.97	0.97
11:I2:978:LYS:O	15:M3:621:ARG:NH1	1.97	0.97
11:I3:1278:ALA:O	26:X1:520:GLU:HA	1.64	0.97
2:A2:826:ASN:OD1	6:D1:633:LYS:CB	2.10	0.97
2:A2:1125:LEU:CG	3:A5:132:ASP:O	2.06	0.97
2:A2:1136:LYS:CG	3:A5:138:LEU:HB3	1.89	0.97
2:A2:1145:GLY:CA	3:A5:129:ASN:HD22	1.76	0.97
2:A4:89:LEU:CB	3:A6:406:LEU:HG	1.94	0.97
2:A4:670:SER:H	3:A6:542:LEU:HD21	1.29	0.97
2:A4:769:GLU:O	3:A6:528:ILE:CG2	2.12	0.97
2:A4:781:ARG:HH21	6:D3:633:LYS:CE	1.75	0.97
2:A4:789:LEU:HD23	3:A6:146:LYS:HB2	1.21	0.97
2:A4:792:VAL:CG2	3:A6:248:VAL:HB	1.95	0.97
2:A4:802:TYR:CD1	3:A6:397:LEU:HD23	2.00	0.97
2:A4:954:ILE:HB	4:B6:345:LYS:C	1.84	0.97
3:A6:1413:SER:O	28:Z4:994:ILE:CA	2.11	0.97
6:D7:528:PHE:C	11:I3:181:GLN:NE2	2.18	0.97
11:I1:1054:ILE:H	17:O1:282:LYS:HB2	1.25	0.97
11:I1:1114:VAL:HG12	16:N1:432:TYR:HE2	1.19	0.97
11:I2:884:LEU:HD12	16:N3:400:LEU:CG	1.93	0.97
11:I2:894:VAL:H	17:O3:239:GLN:CG	1.76	0.97
11:I2:944:GLU:CB	17:O3:256:TYR:CD1	2.47	0.97
11:I2:950:LEU:HD11	16:N3:410:MET:CB	1.77	0.97
11:I2:968:PRO:HD3	20:R3:153:GLN:HB2	1.00	0.97
11:I3:1270:LYS:HG2	26:X1:527:VAL:O	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P1:280:THR:H	18:P4:322:LYS:HD3	1.26	0.97
1:A1:1099:GLN:HG2	11:I1:1414:CYS:O	1.64	0.97
2:A2:1135:ARG:CD	3:A5:147:LEU:HD21	1.94	0.97
2:A2:1151:THR:HG23	5:C2:734:VAL:N	1.68	0.97
1:A3:1088:ASN:HA	6:D3:808:ASN:HB3	1.46	0.97
1:A3:1118:GLN:CA	3:A6:592:ASP:OD1	2.11	0.97
2:A4:549:ALA:HB3	3:A6:365:MET:HE2	0.98	0.97
2:A4:703:SER:N	3:A6:399:ASP:CA	2.28	0.97
2:A4:760:LEU:HD21	3:A6:98:LEU:HB2	0.99	0.97
2:A4:1149:THR:CA	5:C4:730:HIS:N	2.19	0.97
3:A5:1054:SER:CB	11:I5:38:GLN:OE1	2.12	0.97
8:F1:1093:LEU:CB	17:O2:244:GLU:OE1	2.05	0.97
11:I1:1038:ILE:O	15:M1:620:VAL:HG21	1.64	0.97
11:I1:1040:HIS:HE2	16:N1:437:VAL:HG22	1.26	0.97
11:I1:1052:LEU:HA	17:O1:287:LEU:HD13	1.45	0.97
11:I1:1066:LEU:HB3	16:N1:430:ARG:CG	1.93	0.97
11:I1:1072:ASN:OD1	16:N1:429:GLU:OE1	1.81	0.97
11:I2:797:LEU:HD11	17:O3:244:GLU:O	1.65	0.97
11:I2:946:THR:H	17:O3:260:LEU:N	1.63	0.97
11:I2:1040:HIS:NE2	16:N3:437:VAL:CG1	2.28	0.97
1:A1:1225:PRO:O	2:A2:728:LYS:CB	2.13	0.97
2:A2:227:SER:HB2	6:D1:711:PHE:HD2	1.28	0.97
1:A3:1245:ASP:HB2	3:A6:588:SER:HG	1.14	0.97
2:A4:610:THR:HG21	3:A6:506:SER:OG	1.63	0.97
2:A4:635:ARG:NH2	3:A6:603:ASN:H	1.61	0.97
2:A4:716:ASN:N	3:A6:490:PHE:CZ	2.20	0.97
2:A4:780:GLU:CD	6:D3:679:ILE:CG2	2.32	0.97
2:A4:852:ASP:H	3:A6:170:THR:H	0.97	0.97
2:A4:859:GLN:NE2	3:A6:176:LEU:HD22	1.78	0.97
2:A4:868:GLN:CD	6:D3:570:VAL:HG12	1.85	0.97
3:A6:1385:GLU:OE1	28:Z4:907:LEU:CB	2.12	0.97
8:F1:1261:TYR:CD2	17:O2:259:ASP:C	2.28	0.97
11:I1:965:ALA:HB3	20:R1:165:SER:N	1.78	0.97
11:I1:1013:GLU:CB	16:N1:411:GLN:OE1	2.12	0.97
11:I2:887:GLN:NE2	16:N3:396:ILE:HB	1.78	0.97
11:I2:888:GLU:H	16:N3:393:ILE:HG22	1.25	0.97
11:I2:1059:PRO:HB3	17:O3:273:ASP:C	1.83	0.97
11:I3:1277:LEU:CD1	26:X1:522:MET:CG	2.42	0.97
21:S3:598:LEU:N	21:S4:1154:GLY:O	1.98	0.97
2:A2:777:LEU:CA	6:D1:678:GLY:CA	2.37	0.97
1:A3:1233:GLN:HB2	3:A6:575:LEU:CD1	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1321:MET:HE1	3:A6:571:ARG:NH2	1.74	0.97
2:A4:727:ASN:ND2	3:A6:605:TYR:HA	1.80	0.97
2:A4:816:LYS:HD2	3:A6:150:PHE:HA	1.47	0.97
2:A4:868:GLN:HE21	6:D3:608:ILE:CG1	1.76	0.97
2:A4:934:TRP:CZ2	4:B6:350:GLU:CB	2.48	0.97
2:A4:978:ASP:N	6:D3:467:PHE:HE1	1.62	0.97
2:A4:1155:ASN:ND2	5:C4:735:ILE:HA	1.80	0.97
3:A6:1395:LYS:HA	28:Z4:920:SER:N	1.79	0.97
3:A6:1398:LYS:CE	28:Z4:918:PHE:HA	1.94	0.97
11:I1:1603:ARG:CZ	11:I2:1662:ARG:HD3	1.95	0.97
11:I1:1669:ARG:NH2	11:I2:1610:VAL:CG1	2.28	0.97
11:I2:921:GLU:O	15:M3:593:ALA:CA	2.13	0.97
11:I2:925:LEU:HD11	20:R3:156:GLY:HA2	1.47	0.97
11:I2:979:ALA:CB	20:R3:167:GLN:HE22	1.78	0.97
11:I2:1110:SER:HB2	16:N3:438:LEU:N	1.79	0.97
11:I5:1279:THR:HG21	26:X2:520:GLU:O	1.64	0.97
17:O4:110:LEU:HD21	18:P4:321:ILE:H	1.28	0.97
21:S1:660:LEU:N	21:S2:1102:VAL:CG2	2.28	0.97
1:A3:1117:ILE:CD1	3:A6:591:ASP:C	2.28	0.97
1:A3:1153:LEU:HD13	3:A6:592:ASP:CG	1.84	0.97
1:A3:1229:VAL:CB	3:A6:574:ARG:HA	1.92	0.97
2:A4:537:ALA:HB2	3:A6:367:ASP:C	1.85	0.97
2:A4:737:PRO:CA	3:A6:89:LEU:HB3	1.94	0.97
2:A4:818:LEU:O	3:A6:526:ILE:HD13	1.65	0.97
2:A4:897:ASN:CA	3:A6:165:PHE:CB	2.43	0.97
3:A5:1091:VAL:HG13	11:I5:36:GLU:OE1	1.65	0.97
3:A5:1399:ARG:HH11	28:Z2:909:LEU:CA	1.67	0.97
3:A6:1372:THR:HG23	28:Z4:833:ASP:CB	1.95	0.97
6:D6:796:ALA:O	22:T3:768:ASN:CG	2.02	0.97
11:I1:840:LEU:CG	17:O1:244:GLU:HG3	1.84	0.97
11:I1:1059:PRO:N	17:O1:277:GLU:HB2	1.79	0.97
11:I2:884:LEU:HD23	15:M3:595:MET:SD	2.05	0.97
11:I2:896:PRO:O	17:O3:232:LYS:HB3	1.65	0.97
11:I2:900:ARG:HG3	17:O3:232:LYS:CE	1.94	0.97
11:I2:920:PHE:O	15:M3:595:MET:HB3	1.64	0.97
11:I2:922:ASP:N	15:M3:592:LEU:C	2.18	0.97
11:I2:944:GLU:HB3	17:O3:256:TYR:CD1	2.00	0.97
11:I2:952:LEU:CD2	15:M3:602:MET:CB	2.43	0.97
11:I2:1069:SER:N	16:N3:428:ASP:N	1.98	0.97
17:O4:112:GLY:HA3	18:P1:278:ASN:HB2	0.97	0.97
1:A3:1120:ASP:HB2	3:A6:596:ARG:N	1.79	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1221:ILE:HG13	3:A6:498:ARG:O	1.63	0.96
1:A3:1285:LEU:HD11	3:A6:581:LYS:CA	1.95	0.96
1:A3:1325:MET:CE	3:A6:126:ARG:NH2	2.28	0.96
2:A4:692:VAL:HG13	3:A6:466:ALA:O	1.60	0.96
2:A4:958:LEU:HD12	4:B6:343:LYS:O	1.64	0.96
11:I1:1021:ILE:CD1	16:N1:410:MET:CA	2.43	0.96
11:I1:1543:LEU:HD13	11:I2:1677:LYS:HE2	1.43	0.96
11:I2:1110:SER:CB	16:N3:438:LEU:HG	1.90	0.96
21:S1:684:THR:H	21:S2:1148:TYR:CA	1.77	0.96
2:A2:869:ALA:O	6:D1:548:LEU:HD21	1.64	0.96
1:A3:1324:ASP:OD2	3:A6:126:ARG:CD	2.13	0.96
2:A4:496:THR:HG23	3:A6:366:ALA:CB	1.69	0.96
2:A4:537:ALA:HA	3:A6:362:PHE:CZ	1.38	0.96
2:A4:540:GLN:C	3:A6:363:ALA:HB3	1.84	0.96
2:A4:555:VAL:N	3:A6:458:THR:H	1.50	0.96
2:A4:635:ARG:HH22	3:A6:600:LYS:C	1.63	0.96
2:A4:652:PRO:CD	3:A6:542:LEU:HD13	1.94	0.96
2:A4:757:LEU:CD1	3:A6:543:GLY:HA2	1.89	0.96
2:A4:771:ILE:H	3:A6:477:PHE:CB	1.47	0.96
9:G1:254:ASN:OD1	15:M2:605:THR:OG1	1.83	0.96
9:G2:257:THR:HG22	17:O4:258:GLU:H	1.26	0.96
11:I1:951:LYS:HB3	17:O1:253:LEU:CD1	1.96	0.96
11:I1:980:ILE:HG13	20:R1:147:LEU:CD1	1.94	0.96
11:I1:987:GLY:HA2	15:M1:614:ASP:HB3	1.47	0.96
11:I1:1736:LEU:HD12	11:I2:1607:GLN:HE21	1.28	0.96
11:I2:927:HIS:HB2	15:M3:597:LYS:HB3	1.45	0.96
11:I2:950:LEU:HD21	16:N3:410:MET:HE1	0.99	0.96
11:I2:951:LYS:HB3	17:O3:253:LEU:CD2	1.94	0.96
11:I2:962:ILE:HD13	15:M3:596:ILE:CG2	1.95	0.96
11:I3:1280:PRO:HD3	26:X1:523:LEU:CD1	1.96	0.96
11:I4:819:MET:HB2	26:X3:501:LYS:HD3	1.47	0.96
11:I4:1277:LEU:HD23	26:X3:517:ASP:CB	1.95	0.96
18:P1:279:GLY:N	18:P4:322:LYS:CD	2.16	0.96
1:A1:831:ALA:O	6:D3:298:ASN:ND2	1.97	0.96
1:A1:1224:PRO:CD	2:A2:731:ILE:HB	1.93	0.96
1:A3:1198:GLU:N	3:A6:678:LEU:CG	2.20	0.96
1:A3:1228:TYR:O	3:A6:576:VAL:N	1.80	0.96
1:A3:1278:PRO:CB	3:A6:624:ASP:H	1.74	0.96
2:A4:710:LEU:HB3	3:A6:480:VAL:HG23	1.44	0.96
2:A4:870:HIS:HB2	6:D3:566:PHE:CE1	1.99	0.96
2:A4:946:LYS:HB2	4:B6:350:GLU:CB	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:982:THR:HA	6:D3:502:LEU:HD22	1.47	0.96
3:A6:1365:VAL:HA	28:Z4:878:HIS:HA	1.47	0.96
11:I1:920:PHE:O	15:M1:592:LEU:HA	1.15	0.96
11:I1:1109:LEU:HD12	17:O1:290:TYR:CE2	1.49	0.96
11:I2:992:ILE:CG2	15:M3:607:SER:O	2.07	0.96
11:I2:1020:ALA:CB	16:N3:410:MET:N	2.25	0.96
11:I3:1267:LEU:CG	26:X1:529:TRP:CD2	2.48	0.96
2:A2:874:VAL:N	6:D1:568:ARG:CA	2.20	0.96
1:A3:1201:ARG:HD3	2:A4:734:LEU:CD2	1.70	0.96
1:A3:1261:TYR:HB3	3:A6:621:GLN:H	1.19	0.96
1:A3:1306:PRO:HB2	3:A6:715:GLU:CB	1.88	0.96
2:A4:533:ALA:HB3	3:A6:370:PRO:HG3	1.43	0.96
2:A4:710:LEU:CD2	3:A6:479:VAL:C	2.29	0.96
2:A4:944:SER:O	4:B6:351:GLU:HG3	0.79	0.96
3:A5:172:PRO:HD3	5:C2:730:HIS:ND1	1.79	0.96
3:A5:1376:LEU:H	28:Z2:814:THR:CB	1.79	0.96
6:D5:594:LYS:NZ	24:V2:255:GLN:HE22	1.62	0.96
11:I1:797:LEU:CD1	17:O1:245:GLU:CG	2.43	0.96
11:I1:923:GLY:HA2	15:M1:590:LYS:O	1.61	0.96
11:I1:980:ILE:CG2	15:M1:618:GLN:O	2.12	0.96
11:I2:890:TYR:N	17:O3:242:ARG:HE	1.40	0.96
11:I2:984:GLU:CD	15:M3:615:PRO:HA	1.83	0.96
11:I2:1020:ALA:O	16:N3:406:HIS:CG	2.19	0.96
11:I2:1038:ILE:CG1	20:R3:167:GLN:OE1	2.12	0.96
17:O3:158:GLU:HG2	18:P3:316:LEU:N	1.77	0.96
1:A1:868:GLN:O	6:D3:277:ASN:CB	2.13	0.96
1:A1:1223:GLU:HB2	2:A2:676:LEU:HD11	1.45	0.96
1:A3:1194:HIS:NE2	3:A6:679:TYR:O	1.98	0.96
2:A4:682:ARG:HB2	3:A6:431:PHE:HZ	1.19	0.96
2:A4:768:SER:HB3	3:A6:477:PHE:CE2	2.00	0.96
2:A4:791:ALA:C	3:A6:247:ASP:OD1	2.04	0.96
2:A4:824:ASN:C	3:A6:138:LEU:HD11	1.84	0.96
2:A4:976:LEU:CB	6:D3:472:PHE:CD2	2.47	0.96
2:A4:1114:ILE:HD11	5:C4:731:LYS:HB2	1.44	0.96
11:I1:924:ILE:CD1	15:M1:595:MET:CB	2.39	0.96
11:I1:992:ILE:HD11	15:M1:604:ASN:O	1.62	0.96
11:I1:1109:LEU:HG	16:N1:438:LEU:HD23	1.45	0.96
11:I2:956:ILE:C	20:R3:166:LEU:HD13	1.85	0.96
11:I3:1275:SER:HB2	26:X1:508:LEU:HD11	1.47	0.96
1:A3:1281:LEU:HD13	3:A6:577:ASP:HB3	1.47	0.96
2:A4:87:GLN:CG	3:A6:393:HIS:ND1	2.19	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:758:HIS:O	3:A6:535:PHE:CD1	2.17	0.96
2:A4:816:LYS:HG2	3:A6:157:TRP:CD1	2.00	0.96
2:A4:975:GLU:CA	6:D3:501:LEU:HB2	1.96	0.96
2:A4:992:TYR:HB3	6:D3:238:ALA:O	1.15	0.96
3:A5:996:ASN:CB	11:I5:56:ARG:O	2.08	0.96
3:A5:1312:ARG:NE	28:Z2:832:PHE:O	1.97	0.96
8:F1:1265:GLN:CA	17:O2:265:ASN:HB2	1.96	0.96
9:G2:256:GLN:HB3	17:O4:261:LYS:HB3	1.48	0.96
11:I2:883:ALA:HB1	17:O3:243:LEU:O	1.63	0.96
11:I2:951:LYS:HE2	16:N3:404:GLU:HB2	1.45	0.96
11:I2:983:LEU:HD22	15:M3:617:THR:OG1	0.78	0.96
21:S1:679:ILE:O	21:S2:1071:LEU:CD2	2.13	0.96
2:A2:825:ARG:NE	6:D1:633:LYS:HZ3	1.63	0.96
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG1	1.94	0.96
1:A3:1196:GLU:HA	3:A6:608:VAL:HG12	0.97	0.96
1:A3:1241:ARG:CD	3:A6:597:GLU:OE1	2.14	0.96
1:A3:1242:THR:HG23	3:A6:587:VAL:C	1.52	0.96
2:A4:610:THR:HG1	3:A6:506:SER:HB2	1.28	0.96
2:A4:615:LEU:HD21	3:A6:499:ILE:CD1	1.95	0.96
2:A4:735:ALA:O	3:A6:92:ASP:HB3	1.64	0.96
2:A4:754:HIS:CD2	3:A6:538:ALA:CA	2.38	0.96
2:A4:827:ILE:HG22	3:A6:134:VAL:N	1.79	0.96
2:A4:873:PRO:CG	6:D3:572:GLU:OE2	2.14	0.96
3:A6:442:ARG:NE	6:D3:692:LEU:CD2	2.28	0.96
3:A6:444:ARG:C	6:D3:719:LEU:HA	1.84	0.96
8:F1:1138:TRP:N	17:O2:244:GLU:O	1.99	0.96
11:I1:951:LYS:HD2	16:N1:400:LEU:O	1.64	0.96
11:I1:1046:HIS:HB3	17:O1:283:ALA:HB3	1.43	0.96
11:I1:1607:GLN:NE2	11:I2:1736:LEU:HD12	1.79	0.96
11:I2:833:PHE:C	17:O3:241:SER:CB	2.33	0.96
11:I2:925:LEU:CD1	20:R3:156:GLY:CA	2.43	0.96
11:I2:952:LEU:HD13	17:O3:250:LEU:HD13	1.35	0.96
17:O3:151:LEU:HD23	18:P3:325:ILE:CG1	1.49	0.96
2:A2:1145:GLY:N	3:A5:129:ASN:HD22	1.61	0.96
1:A3:1229:VAL:HA	3:A6:574:ARG:CB	1.58	0.96
2:A4:553:ASP:OD1	3:A6:435:PRO:HD3	1.65	0.96
2:A4:715:GLU:HA	3:A6:515:THR:H	1.28	0.96
2:A4:754:HIS:O	3:A6:538:ALA:N	1.91	0.96
2:A4:827:ILE:HG13	3:A6:130:ILE:O	1.07	0.96
2:A4:880:ALA:CB	6:D3:558:LYS:HE3	1.96	0.96
2:A4:974:PRO:CA	6:D3:499:LEU:CD1	2.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:996:ASN:HB2	11:I5:56:ARG:C	1.52	0.96
3:A5:1356:SER:O	28:Z2:879:PHE:N	1.88	0.96
3:A5:1360:GLY:C	28:Z2:875:LEU:CB	2.31	0.96
3:A5:1374:ALA:HB3	28:Z2:824:PHE:H	1.16	0.96
3:A6:486:GLN:HB3	6:D3:675:ARG:HG3	1.45	0.96
11:I1:837:MET:HE1	17:O1:242:ARG:C	1.86	0.96
11:I1:996:LEU:HD21	16:N1:410:MET:HE1	0.96	0.96
11:I1:1024:PHE:HB3	16:N1:406:HIS:CG	2.01	0.96
11:I2:966:TRP:O	20:R3:150:ASN:C	2.03	0.96
11:I4:1276:GLN:HB3	26:X3:516:ASN:O	1.65	0.96
1:A3:1230:TYR:CD2	2:A4:726:ALA:O	2.17	0.96
2:A4:854:VAL:HG11	3:A6:171:HIS:CE1	2.01	0.96
2:A4:951:GLU:OE2	3:A6:233:THR:C	2.04	0.96
2:A4:976:LEU:HB3	6:D3:472:PHE:CD2	2.01	0.96
2:A4:983:LEU:CD1	6:D3:553:PHE:CB	2.37	0.96
11:I1:888:GLU:CB	17:O1:242:ARG:NH1	2.28	0.96
11:I1:965:ALA:CB	20:R1:163:LEU:O	2.13	0.96
11:I1:1021:ILE:HG23	16:N1:406:HIS:HE1	1.02	0.96
11:I2:834:SER:HB3	17:O3:237:PRO:C	1.86	0.96
11:I2:899:LEU:HD12	17:O3:234:LEU:H	1.29	0.96
11:I2:1028:CYS:C	20:R3:169:GLY:C	2.18	0.96
11:I2:1543:LEU:O	12:J1:300:ILE:HG23	1.64	0.96
17:O3:101:ASN:CB	18:P3:326:GLN:NE2	1.95	0.96
2:A2:1135:ARG:HG3	3:A5:138:LEU:CD1	1.93	0.96
2:A2:1148:ARG:O	3:A5:173:ASN:HB2	1.64	0.96
1:A3:1248:ILE:CG1	3:A6:587:VAL:CG1	1.86	0.96
2:A4:717:VAL:HG21	3:A6:476:PHE:HB3	1.47	0.96
2:A4:723:PHE:CB	3:A6:495:ASP:C	2.03	0.96
2:A4:761:GLN:OE1	3:A6:547:GLU:N	1.98	0.96
2:A4:886:PHE:CA	3:A6:175:GLU:HB3	1.96	0.96
3:A5:157:TRP:N	5:C2:741:THR:HG21	1.78	0.96
3:A5:220:VAL:HG13	5:C2:739:MET:N	1.80	0.96
3:A5:1024:ASP:CB	11:I5:98:ALA:CB	2.40	0.96
3:A6:445:THR:OG1	6:D3:718:LYS:HE3	1.64	0.96
3:A6:446:LEU:O	6:D3:730:ARG:NH2	1.98	0.96
11:I1:882:LYS:N	17:O1:249:ARG:HD2	1.79	0.96
11:I1:899:LEU:HD12	17:O1:233:THR:H	1.12	0.96
11:I1:924:ILE:HD13	15:M1:595:MET:HB3	1.44	0.96
11:I1:935:GLY:H	15:M1:605:THR:N	1.62	0.96
11:I1:1607:GLN:HE21	11:I2:1736:LEU:CD1	1.75	0.96
11:I2:921:GLU:C	15:M3:593:ALA:HA	1.83	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:945:LEU:H	17:O3:259:ASP:HB3	1.26	0.96
11:I2:966:TRP:CA	20:R3:154:ALA:H	1.78	0.96
21:S3:678:GLU:N	21:S4:1141:GLU:O	1.98	0.96
1:A1:870:HIS:CA	6:D3:279:HIS:HB3	1.95	0.95
1:A1:1223:GLU:HG3	2:A2:734:LEU:HD11	1.48	0.95
2:A2:1148:ARG:O	3:A5:173:ASN:CB	2.10	0.95
1:A3:1123:GLU:HB3	3:A6:599:ARG:CD	1.83	0.95
1:A3:1237:LEU:HD21	3:A6:119:TRP:NE1	1.53	0.95
1:A3:1258:VAL:O	3:A6:621:GLN:CA	2.14	0.95
2:A4:701:ILE:HD11	3:A6:466:ALA:H	0.81	0.95
3:A5:1394:VAL:O	28:Z2:874:ASN:HA	1.65	0.95
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB2	1.81	0.95
11:I1:1038:ILE:O	15:M1:620:VAL:HG22	1.65	0.95
11:I2:833:PHE:HE2	17:O3:238:ALA:O	1.47	0.95
11:I2:1029:LEU:CB	20:R3:174:ARG:HG3	1.96	0.95
17:O4:110:LEU:HD22	18:P4:321:ILE:CG1	1.95	0.95
2:A2:874:VAL:H	6:D1:568:ARG:HA	0.81	0.95
2:A2:1125:LEU:HB3	3:A5:134:VAL:C	1.86	0.95
2:A2:1151:THR:HA	5:C2:733:LEU:HD12	0.95	0.95
2:A4:781:ARG:NH2	6:D3:633:LYS:HD2	1.79	0.95
2:A4:793:SER:CB	3:A6:146:LYS:HE2	1.95	0.95
2:A4:950:ASP:OD2	4:B6:348:PRO:C	2.03	0.95
3:A5:1026:PRO:CG	11:I5:73:TYR:CG	2.49	0.95
11:I1:882:LYS:N	17:O1:249:ARG:HB3	1.71	0.95
11:I1:890:TYR:CZ	17:O1:240:GLY:N	2.19	0.95
11:I1:894:VAL:HG21	17:O1:238:ALA:HB3	1.43	0.95
11:I1:931:VAL:HG21	15:M1:604:ASN:OD1	1.63	0.95
11:I2:931:VAL:O	15:M3:605:THR:HG23	1.65	0.95
11:I2:983:LEU:O	15:M3:612:PRO:C	2.03	0.95
11:I2:1040:HIS:N	20:R3:170:LEU:HD21	1.80	0.95
2:A2:1094:ILE:CG1	6:D2:759:GLN:OE1	2.13	0.95
1:A3:1049:PHE:CA	6:D3:816:VAL:HG21	1.91	0.95
1:A3:1163:TYR:C	3:A6:648:TYR:CE2	2.18	0.95
1:A3:1200:ARG:HH11	3:A6:608:VAL:HB	1.20	0.95
1:A3:1231:VAL:N	3:A6:576:VAL:N	2.03	0.95
1:A3:1233:GLN:HB3	3:A6:601:PHE:HE1	0.81	0.95
2:A4:84:VAL:HG13	3:A6:99:ASP:OD2	1.65	0.95
2:A4:91:LEU:HD22	3:A6:430:GLN:HE22	1.30	0.95
2:A4:614:ALA:O	3:A6:511:PHE:CZ	1.80	0.95
2:A4:672:ARG:HG3	3:A6:96:PRO:CG	1.46	0.95
2:A4:680:LEU:N	3:A6:102:CYS:SG	2.38	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:712:THR:N	3:A6:462:LEU:CD2	2.29	0.95
2:A4:854:VAL:CG1	3:A6:171:HIS:ND1	1.81	0.95
2:A4:876:ARG:CD	6:D3:558:LYS:C	2.25	0.95
11:I1:894:VAL:HG23	17:O1:238:ALA:HB3	1.44	0.95
11:I2:954:GLU:HB3	16:N3:403:VAL:CA	1.96	0.95
11:I2:966:TRP:CA	20:R3:154:ALA:N	2.29	0.95
11:I2:1043:LEU:CD2	16:N3:430:ARG:O	2.14	0.95
18:P1:279:GLY:N	18:P4:322:LYS:HD3	1.79	0.95
1:A1:834:GLU:HB2	6:D3:302:PRO:HB3	1.47	0.95
2:A2:865:ALA:H	6:D1:607:PRO:HD2	1.12	0.95
1:A3:1189:LEU:HB3	3:A6:641:ALA:CB	1.55	0.95
2:A4:93:ASP:OD1	3:A6:429:LEU:HD23	1.64	0.95
2:A4:717:VAL:CG2	3:A6:512:GLU:OE1	2.14	0.95
2:A4:720:LEU:CD1	3:A6:510:TYR:CD1	2.48	0.95
2:A4:777:LEU:CB	3:A6:481:ARG:HH12	1.78	0.95
2:A4:817:VAL:CG1	3:A6:146:LYS:HG2	1.97	0.95
3:A5:234:LEU:H	5:C2:737:LYS:HB2	1.28	0.95
4:B5:344:ALA:HB2	5:C2:740:ARG:CZ	1.95	0.95
5:C1:732:LYS:CE	11:I1:1225:LYS:HD2	1.95	0.95
11:I1:918:SER:HB2	16:N1:385:MET:HG2	1.48	0.95
11:I1:1110:SER:CB	16:N1:434:LEU:O	2.14	0.95
11:I1:1604:ALA:N	11:I2:1739:GLU:O	1.79	0.95
11:I2:947:LEU:HD22	16:N3:411:GLN:HG2	1.48	0.95
11:I3:1273:GLU:CG	26:X1:535:ALA:HB2	1.96	0.95
1:A3:1203:TYR:N	3:A6:91:LEU:CG	2.14	0.95
2:A4:85:VAL:HG11	3:A6:395:MET:HB2	1.46	0.95
2:A4:768:SER:H	3:A6:475:TYR:C	1.70	0.95
2:A4:942:ASN:HB3	4:B6:355:PRO:O	1.67	0.95
3:A6:1327:VAL:CG1	28:Z4:961:PHE:CB	2.43	0.95
3:A6:1389:SER:CB	28:Z4:907:LEU:HA	1.95	0.95
11:I1:842:ASN:HA	15:M1:587:GLU:CG	1.96	0.95
11:I2:900:ARG:N	17:O3:232:LYS:CB	2.29	0.95
11:I2:950:LEU:HD22	16:N3:406:HIS:HE2	1.21	0.95
11:I2:976:ARG:NH1	15:M3:622:VAL:CG2	2.28	0.95
11:I2:988:GLU:O	15:M3:608:LYS:HE3	1.66	0.95
11:I2:1039:ALA:HB3	20:R3:170:LEU:HG	1.13	0.95
11:I3:1273:GLU:H	26:X1:526:CYS:N	1.50	0.95
17:O3:147:ALA:CB	18:P3:328:PRO:CB	2.45	0.95
21:S1:654:LYS:O	21:S2:1154:GLY:C	2.05	0.95
2:A2:826:ASN:OD1	6:D1:633:LYS:HB3	1.63	0.95
2:A2:1122:LEU:CD1	3:A5:135:PHE:HD2	1.77	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1135:ARG:HD2	3:A5:147:LEU:HD21	0.97	0.95
2:A2:1141:GLU:O	3:A5:129:ASN:HA	0.85	0.95
1:A3:1098:ARG:HD3	11:I2:1478:VAL:HG22	1.44	0.95
1:A3:1131:ILE:HA	3:A6:653:ARG:NH2	1.81	0.95
1:A3:1204:TRP:HB3	3:A6:95:TYR:CB	1.92	0.95
1:A3:1229:VAL:CB	3:A6:574:ARG:CA	2.41	0.95
2:A4:540:GLN:N	3:A6:359:LEU:C	2.20	0.95
2:A4:795:GLN:HB3	3:A6:247:ASP:OD2	1.66	0.95
2:A4:815:ALA:O	3:A6:527:GLU:CB	2.13	0.95
2:A4:909:LYS:HG3	6:D3:555:ARG:NH1	1.76	0.95
3:A6:132:ASP:OD2	6:D3:607:PRO:HD3	1.51	0.95
9:G1:270:ARG:HB2	16:N2:413:VAL:C	1.85	0.95
11:I1:846:ILE:HG22	17:O1:247:TRP:CE2	2.00	0.95
11:I1:846:ILE:HG12	15:M1:591:ASP:HA	0.98	0.95
11:I1:966:TRP:N	20:R1:165:SER:OG	1.99	0.95
11:I1:985:ARG:N	15:M1:613:ASP:CA	2.29	0.95
11:I1:1034:ASP:HB2	15:M1:630:LEU:HD13	1.46	0.95
11:I1:1037:THR:CG2	20:R1:169:GLY:CA	2.34	0.95
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CG	1.80	0.95
11:I2:895:ARG:HA	17:O3:236:ASP:H	1.15	0.95
11:I2:948:ALA:HB1	17:O3:253:LEU:O	1.53	0.95
11:I2:964:SER:C	20:R3:153:GLN:NE2	2.20	0.95
11:I2:980:ILE:CD1	20:R3:147:LEU:CA	2.45	0.95
17:O4:111:TYR:HD1	18:P4:325:ILE:CD1	1.78	0.95
2:A2:869:ALA:HB2	6:D1:574:VAL:HG22	1.45	0.95
2:A2:1094:ILE:CD1	6:D2:759:GLN:CD	2.33	0.95
1:A3:1199:GLN:O	3:A6:91:LEU:HD23	1.67	0.95
1:A3:1204:TRP:HB2	2:A4:731:ILE:CG2	1.93	0.95
2:A4:598:VAL:HG21	3:A6:504:PRO:HD3	1.48	0.95
2:A4:682:ARG:CG	3:A6:431:PHE:CD1	2.46	0.95
2:A4:777:LEU:HB3	3:A6:481:ARG:NH1	1.80	0.95
2:A4:886:PHE:HB3	3:A6:175:GLU:HB3	1.38	0.95
2:A4:976:LEU:CG	6:D3:472:PHE:CD2	2.49	0.95
2:A4:983:LEU:CB	6:D3:528:PHE:CE1	2.35	0.95
2:A4:1151:THR:HA	5:C4:733:LEU:HD12	0.96	0.95
3:A5:1029:ILE:HA	11:I5:69:GLY:O	1.66	0.95
3:A5:1392:ARG:CG	28:Z2:866:GLU:C	2.35	0.95
3:A6:444:ARG:H	6:D3:737:PHE:HE2	0.95	0.95
11:I1:957:SER:O	20:R1:168:LEU:CG	2.13	0.95
11:I2:850:ILE:CG2	15:M3:598:GLU:HG2	1.94	0.95
11:I2:1036:PRO:HG3	17:O3:287:LEU:CG	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O3:148:ARG:NE	18:P3:325:ILE:CG2	2.30	0.95
17:O3:158:GLU:HG3	18:P3:316:LEU:H	1.03	0.95
1:A1:1201:ARG:N	2:A2:729:SER:CA	2.09	0.95
1:A3:1021:LEU:HD13	6:D3:816:VAL:HA	0.97	0.95
1:A3:1192:GLN:H	3:A6:615:LEU:HB2	1.16	0.95
1:A3:1231:VAL:CG2	3:A6:616:ALA:HB3	1.96	0.95
2:A4:753:GLU:HG3	3:A6:543:GLY:N	1.49	0.95
2:A4:762:LYS:O	3:A6:471:PHE:CB	2.13	0.95
2:A4:880:ALA:CA	6:D3:558:LYS:HE3	1.96	0.95
2:A4:974:PRO:HA	6:D3:499:LEU:HD12	1.47	0.95
2:A4:978:ASP:CA	6:D3:476:VAL:HG23	1.89	0.95
3:A5:1092:ASN:HA	11:I5:33:THR:HG22	1.45	0.95
3:A5:1098:ARG:HD3	11:I5:29:GLN:HE21	1.28	0.95
3:A5:1368:GLN:HB2	28:Z2:841:ALA:HA	1.48	0.95
3:A5:1391:ARG:HA	28:Z2:871:HIS:HA	1.44	0.95
3:A5:1394:VAL:O	28:Z2:874:ASN:CA	2.15	0.95
9:G2:255:LEU:HA	17:O4:262:ASP:CG	1.87	0.95
11:I1:955:LYS:HD2	16:N1:401:THR:N	1.80	0.95
11:I1:983:LEU:N	15:M1:621:ARG:CZ	2.28	0.95
11:I1:1041:GLN:HB2	15:M1:620:VAL:N	1.80	0.95
11:I2:911:PRO:HB3	15:M3:584:GLN:HE22	1.24	0.95
11:I2:995:SER:HA	17:O3:267:ALA:O	1.66	0.95
2:A2:868:GLN:HE21	6:D1:608:ILE:C	1.71	0.95
2:A2:1135:ARG:NH1	3:A5:167:TRP:CH2	2.18	0.95
1:A3:1233:GLN:CB	3:A6:575:LEU:HD12	1.96	0.95
1:A3:1318:TRP:CH2	3:A6:624:ASP:OD1	2.19	0.95
1:A3:1332:ARG:HG3	6:D3:636:ASP:HB3	1.36	0.95
2:A4:682:ARG:NE	3:A6:105:GLY:C	2.19	0.95
2:A4:802:TYR:CE1	3:A6:397:LEU:CD2	2.50	0.95
2:A4:864:ARG:HB3	6:D3:608:ILE:N	1.82	0.95
2:A4:978:ASP:C	6:D3:475:ALA:HB3	1.86	0.95
3:A5:233:THR:HA	5:C2:737:LYS:N	1.81	0.95
3:A5:1033:GLN:OE1	11:I5:71:GLU:HA	1.67	0.95
3:A6:443:ILE:N	6:D3:691:LEU:HD11	1.74	0.95
11:I1:950:LEU:CB	16:N1:407:ALA:HB2	1.90	0.95
11:I1:959:SER:HA	16:N1:395:GLU:HB3	0.95	0.95
11:I1:1036:PRO:N	15:M1:623:LEU:O	2.00	0.95
11:I1:1049:LEU:CD2	20:R1:146:LEU:CD2	2.45	0.95
11:I2:1109:LEU:CG	17:O3:290:TYR:HE2	1.68	0.95
2:A2:225:THR:HG21	6:D1:706:HIS:CB	1.96	0.95
2:A2:780:GLU:HA	6:D1:674:TYR:HA	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1166:LEU:C	3:A6:594:LEU:CD2	2.35	0.95
1:A3:1201:ARG:HD3	2:A4:734:LEU:HD23	1.48	0.95
1:A3:1228:TYR:CD1	3:A6:551:GLN:CG	2.50	0.95
1:A3:1255:LEU:N	3:A6:634:ASP:CB	2.25	0.95
1:A3:1311:ARG:HG2	3:A6:712:THR:CG2	1.95	0.95
1:A3:1332:ARG:CB	3:A6:127:HIS:CE1	2.50	0.95
2:A4:90:GLN:H	3:A6:407:SER:N	1.65	0.95
2:A4:691:LYS:CB	3:A6:316:ARG:HD3	1.85	0.95
2:A4:735:ALA:C	3:A6:685:ARG:NH1	2.07	0.95
2:A4:780:GLU:CG	3:A6:524:ARG:N	1.76	0.95
2:A4:866:SER:OG	3:A6:136:GLU:CD	2.05	0.95
2:A4:978:ASP:CB	6:D3:476:VAL:HG22	1.92	0.95
3:A5:1369:ILE:CG1	28:Z2:832:PHE:H	1.79	0.95
3:A6:442:ARG:HD2	6:D3:692:LEU:N	1.82	0.95
9:G1:256:GLN:HB2	16:N2:403:VAL:HG12	1.48	0.95
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD22	1.67	0.95
11:I2:840:LEU:CD2	17:O3:247:TRP:CD1	2.50	0.95
11:I2:952:LEU:CD2	15:M3:602:MET:HB2	1.96	0.95
11:I2:961:ARG:NH2	16:N3:388:LYS:CA	2.30	0.95
17:O3:155:VAL:HB	18:P3:321:ILE:CG2	1.95	0.95
1:A3:1098:ARG:HB3	11:I2:1414:CYS:HG	1.30	0.94
2:A4:684:VAL:HB	3:A6:395:MET:SD	2.07	0.94
2:A4:690:ALA:CB	3:A6:398:THR:HA	1.97	0.94
2:A4:878:LEU:CD2	6:D3:607:PRO:HG2	1.94	0.94
2:A4:895:PRO:HA	4:B6:344:ALA:HB2	1.50	0.94
11:I2:874:LEU:HA	17:O3:255:GLY:HA3	1.05	0.94
11:I2:899:LEU:C	17:O3:232:LYS:CG	2.24	0.94
11:I4:1274:HIS:H	26:X3:524:SER:CB	1.80	0.94
17:O1:103:VAL:HG13	18:P1:326:GLN:HE21	0.96	0.94
1:A1:870:HIS:CB	6:D3:279:HIS:CB	2.46	0.94
2:A4:540:GLN:N	3:A6:359:LEU:O	1.95	0.94
2:A4:553:ASP:OD2	3:A6:432:VAL:HG12	1.65	0.94
2:A4:710:LEU:CA	3:A6:480:VAL:CG2	2.45	0.94
11:I1:894:VAL:CG2	17:O1:238:ALA:CB	2.44	0.94
11:I1:1104:LEU:HD13	16:N1:433:GLU:HA	0.96	0.94
11:I2:887:GLN:NE2	16:N3:393:ILE:O	2.00	0.94
11:I2:890:TYR:HA	17:O3:239:GLN:N	1.81	0.94
11:I2:942:HIS:CA	17:O3:259:ASP:O	2.15	0.94
11:I2:994:ALA:O	17:O3:267:ALA:HB1	1.66	0.94
11:I2:1037:THR:CG2	20:R3:173:LEU:CD2	2.45	0.94
11:I2:1037:THR:CG2	20:R3:173:LEU:HD22	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1267:LEU:CD2	26:X1:529:TRP:CH2	2.47	0.94
11:I5:1276:GLN:O	26:X2:518:ASP:HA	1.65	0.94
17:O3:162:LYS:CG	18:P3:315:GLU:OE1	2.14	0.94
2:A2:866:SER:C	6:D1:598:ILE:HG23	1.87	0.94
2:A2:869:ALA:HB2	6:D1:574:VAL:HG23	1.26	0.94
1:A3:1166:LEU:N	3:A6:648:TYR:CE2	2.35	0.94
1:A3:1204:TRP:HB3	3:A6:95:TYR:HB2	1.47	0.94
1:A3:1267:GLN:CD	3:A6:552:PHE:H	1.68	0.94
2:A4:703:SER:OG	3:A6:399:ASP:CA	2.13	0.94
2:A4:788:ARG:HA	3:A6:144:PHE:CA	1.96	0.94
2:A4:826:ASN:ND2	3:A6:565:THR:HB	1.82	0.94
2:A4:900:THR:C	3:A6:137:HIS:NE2	2.18	0.94
3:A5:221:SER:N	5:C2:738:ASP:HB3	1.83	0.94
3:A5:1026:PRO:CG	11:I5:73:TYR:HD1	1.50	0.94
3:A5:1359:LEU:HB2	28:Z2:878:HIS:H	1.13	0.94
3:A6:1391:ARG:HH12	28:Z4:873:LEU:CB	1.80	0.94
8:F1:1261:TYR:HD2	17:O2:259:ASP:OD2	1.31	0.94
9:G1:255:LEU:HD12	17:O2:257:ALA:HB3	0.95	0.94
11:I1:982:GLN:HG3	15:M1:621:ARG:HH22	1.30	0.94
11:I1:984:GLU:HB2	15:M1:618:GLN:HG3	1.50	0.94
11:I1:1055:GLU:HB3	17:O1:280:GLU:HB2	1.49	0.94
11:I1:1106:LYS:HB2	16:N1:440:GLU:OE2	1.67	0.94
11:I2:833:PHE:CE2	17:O3:242:ARG:N	2.36	0.94
11:I2:955:LYS:HZ2	17:O3:249:ARG:NH2	1.64	0.94
11:I2:1033:PRO:HB2	20:R3:177:LEU:HG	1.46	0.94
11:I2:1058:GLY:HA3	17:O3:277:GLU:O	1.66	0.94
21:S1:654:LYS:C	21:S2:1153:GLN:O	2.06	0.94
21:S3:1052:LEU:HD21	21:S3:1073:ILE:HD13	1.50	0.94
2:A2:970:PHE:H	6:D1:196:ILE:HD11	1.32	0.94
2:A2:977:VAL:CA	6:D1:496:LEU:CD1	2.42	0.94
2:A2:1160:GLN:CG	3:A5:165:PHE:HB3	1.95	0.94
1:A3:1231:VAL:HG21	3:A6:616:ALA:CB	1.96	0.94
1:A3:1274:ASP:CB	3:A6:556:PRO:CD	2.39	0.94
2:A4:87:GLN:CG	3:A6:408:ALA:N	2.29	0.94
2:A4:642:ARG:CG	3:A6:501:VAL:CG1	2.37	0.94
2:A4:642:ARG:CG	3:A6:501:VAL:CG2	2.46	0.94
2:A4:652:PRO:HB3	3:A6:542:LEU:HD12	0.96	0.94
2:A4:675:ALA:HB3	3:A6:508:LEU:HD13	1.48	0.94
2:A4:691:LYS:NZ	3:A6:330:LEU:HG	1.83	0.94
2:A4:702:SER:C	3:A6:399:ASP:HB3	1.88	0.94
2:A4:720:LEU:CD2	3:A6:494:PRO:C	2.34	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:878:LEU:C	6:D3:567:LEU:HD12	1.87	0.94
2:A4:897:ASN:HD22	3:A6:165:PHE:HB3	1.30	0.94
2:A4:1151:THR:HG23	5:C4:734:VAL:N	1.68	0.94
3:A5:1101:GLN:CD	11:I5:33:THR:CG2	2.35	0.94
6:D7:530:ARG:C	11:I3:181:GLN:HB2	1.86	0.94
9:G1:255:LEU:N	15:M2:602:MET:HB3	1.82	0.94
11:I1:945:LEU:CG	17:O1:258:GLU:N	2.30	0.94
11:I1:1036:PRO:N	16:N1:441:PHE:CZ	2.34	0.94
11:I1:1039:ALA:N	20:R1:169:GLY:CA	1.93	0.94
11:I2:936:LYS:HA	15:M3:609:GLY:CA	1.98	0.94
11:I2:1029:LEU:HD22	16:N3:437:VAL:HG21	1.46	0.94
11:I2:1067:PHE:CD1	16:N3:430:ARG:C	2.34	0.94
11:I4:1279:THR:CG2	26:X3:520:GLU:CB	2.43	0.94
23:U1:274:GLN:HB3	25:W2:189:SER:HB3	0.94	0.94
1:A1:1332:ARG:CD	6:D1:636:ASP:OD1	2.13	0.94
1:A3:1167:CYS:N	3:A6:594:LEU:CD2	2.30	0.94
1:A3:1228:TYR:CD1	3:A6:551:GLN:HG2	2.02	0.94
1:A3:1236:GLN:HB2	3:A6:578:ILE:O	1.67	0.94
2:A4:713:ILE:HG13	3:A6:462:LEU:HD11	1.46	0.94
2:A4:801:THR:H	3:A6:319:TYR:HH	1.06	0.94
2:A4:827:ILE:HG21	3:A6:134:VAL:H	1.29	0.94
3:A5:1406:GLY:H	28:Z2:918:PHE:N	1.64	0.94
3:A5:1406:GLY:N	28:Z2:918:PHE:HA	1.81	0.94
11:I1:853:ILE:HG23	17:O1:254:ARG:CD	1.98	0.94
11:I1:877:ILE:HB	17:O1:252:VAL:N	1.52	0.94
11:I1:928:LEU:HD21	20:R1:155:GLU:HB2	1.49	0.94
11:I1:980:ILE:CD1	15:M1:622:VAL:N	2.28	0.94
11:I1:1021:ILE:CD1	16:N1:410:MET:HA	1.97	0.94
11:I1:1610:VAL:HG13	11:I2:1673:VAL:HG21	1.47	0.94
11:I1:1611:PHE:HB3	11:I2:1672:VAL:CG2	1.97	0.94
11:I2:898:VAL:HG23	17:O3:236:ASP:HA	0.95	0.94
11:I2:952:LEU:CD2	15:M3:602:MET:HG3	1.98	0.94
11:I2:995:SER:OG	17:O3:271:GLU:OE1	1.83	0.94
11:I2:1055:GLU:N	17:O3:278:GLU:HA	1.82	0.94
2:A2:878:LEU:CD1	6:D1:608:ILE:CG2	2.37	0.94
1:A3:1196:GLU:H	3:A6:612:ALA:CB	1.67	0.94
1:A3:1261:TYR:CZ	3:A6:616:ALA:CB	2.49	0.94
2:A4:550:VAL:C	3:A6:455:LEU:CD2	2.30	0.94
2:A4:719:ARG:O	3:A6:513:GLN:HG2	1.14	0.94
2:A4:770:GLY:N	3:A6:477:PHE:HB2	1.83	0.94
3:A5:189:VAL:HG21	5:C2:742:ASP:CB	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:221:SER:H	5:C2:738:ASP:HB3	1.32	0.94
3:A5:1374:ALA:HB2	28:Z2:823:ALA:HB1	1.42	0.94
11:I1:989:GLY:CA	15:M1:614:ASP:OD1	2.14	0.94
11:I2:884:LEU:HD21	15:M3:595:MET:SD	2.07	0.94
11:I3:1277:LEU:HD22	26:X1:513:PHE:HB2	1.45	0.94
11:I4:819:MET:CB	26:X3:501:LYS:HD3	1.97	0.94
21:S3:676:GLU:CB	21:S4:1146:ALA:CA	2.45	0.94
2:A2:985:ALA:O	6:D1:500:LYS:CE	2.15	0.94
1:A3:1196:GLU:H	3:A6:612:ALA:HB2	1.12	0.94
1:A3:1237:LEU:HD11	3:A6:119:TRP:CZ2	2.02	0.94
2:A4:706:PRO:CD	3:A6:482:LYS:CG	1.76	0.94
2:A4:710:LEU:HD23	3:A6:479:VAL:N	1.81	0.94
2:A4:718:GLU:HB3	3:A6:121:PRO:HG2	1.44	0.94
3:A5:1024:ASP:OD1	11:I5:96:GLU:C	1.97	0.94
11:I1:1021:ILE:CD1	16:N1:410:MET:HG3	1.95	0.94
11:I2:976:ARG:HH21	20:R3:143:PHE:C	1.69	0.94
17:O3:102:LYS:CG	18:P3:322:LYS:HE3	1.95	0.94
21:S1:668:ILE:C	21:S2:1146:ALA:CB	2.33	0.94
21:S1:1052:LEU:HD21	21:S1:1073:ILE:HD13	1.50	0.94
1:A1:1201:ARG:NE	2:A2:734:LEU:CB	2.24	0.94
1:A1:1224:PRO:CB	2:A2:731:ILE:HD13	1.97	0.94
2:A2:869:ALA:HB3	6:D1:570:VAL:O	1.68	0.94
2:A2:973:GLU:OE1	6:D1:205:LEU:HD13	1.66	0.94
2:A2:1094:ILE:HD13	6:D2:759:GLN:HE21	1.19	0.94
2:A2:1135:ARG:NE	3:A5:134:VAL:CG1	2.31	0.94
2:A2:1160:GLN:HE21	3:A5:166:LEU:H	1.02	0.94
1:A3:1117:ILE:HD12	3:A6:590:SER:OG	1.53	0.94
1:A3:1260:ALA:CB	3:A6:719:ARG:CZ	2.46	0.94
1:A3:1332:ARG:NE	6:D3:636:ASP:CB	2.31	0.94
2:A4:86:ASN:CB	3:A6:393:HIS:HB2	1.98	0.94
2:A4:712:THR:H	3:A6:462:LEU:CD2	1.80	0.94
2:A4:763:LEU:CG	3:A6:470:ARG:HG2	1.96	0.94
2:A4:765:GLU:OE1	3:A6:475:TYR:HE2	1.08	0.94
2:A4:791:ALA:H	3:A6:187:THR:HG22	0.77	0.94
2:A4:856:PHE:N	3:A6:167:TRP:CD1	2.36	0.94
2:A4:908:LEU:HD23	6:D3:601:PHE:HB3	0.95	0.94
3:A5:999:SER:O	11:I5:64:LYS:CE	2.15	0.94
3:A5:1312:ARG:HD3	28:Z2:832:PHE:HA	0.97	0.94
5:C1:732:LYS:HE2	11:I1:1228:GLU:CD	1.88	0.94
6:D6:800:PRO:HB3	22:T3:765:LYS:HG3	1.32	0.94
11:I1:881:ILE:CD1	17:O1:253:LEU:HD12	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:952:LEU:CG	16:N1:400:LEU:CD2	2.45	0.94
11:I1:962:ILE:HD12	20:R1:164:PRO:O	1.67	0.94
11:I1:1035:GLN:H	15:M1:627:LEU:HD23	1.29	0.94
11:I1:1048:GLU:CG	17:O1:288:GLU:HG3	1.98	0.94
11:I1:1056:PRO:CB	17:O1:278:GLU:CG	2.41	0.94
11:I1:1065:SER:OG	16:N1:430:ARG:HG3	1.66	0.94
11:I1:1101:LEU:HD22	16:N1:432:TYR:CE1	2.03	0.94
11:I1:1109:LEU:H	16:N1:441:PHE:H	0.98	0.94
11:I2:945:LEU:CB	17:O3:255:GLY:O	2.16	0.94
11:I2:976:ARG:O	20:R3:150:ASN:HB2	1.65	0.94
11:I2:1035:GLN:HA	15:M3:626:HIS:CB	1.94	0.94
18:P2:319:VAL:CG2	18:P3:278:ASN:CG	2.21	0.94
1:A1:1201:ARG:HD2	2:A2:734:LEU:CB	1.98	0.94
2:A2:227:SER:CB	6:D1:711:PHE:CB	2.46	0.94
2:A2:866:SER:HB3	6:D1:602:THR:C	1.87	0.94
1:A3:1163:TYR:O	3:A6:647:GLU:HB2	1.67	0.94
1:A3:1188:ASN:CA	3:A6:723:PHE:CZ	2.48	0.94
1:A3:1332:ARG:HB2	3:A6:127:HIS:NE2	1.82	0.94
2:A4:74:ASP:O	3:A6:255:LYS:NZ	2.01	0.94
2:A4:85:VAL:HG13	3:A6:405:PHE:HD1	1.16	0.94
2:A4:712:THR:CG2	3:A6:461:ALA:HB1	1.98	0.94
2:A4:767:ILE:N	3:A6:471:PHE:N	2.16	0.94
2:A4:768:SER:N	3:A6:476:PHE:C	2.09	0.94
2:A4:870:HIS:CG	6:D3:566:PHE:CE1	2.56	0.94
6:D7:481:ARG:HB3	11:I3:183:LYS:HE2	1.47	0.94
9:G1:254:ASN:ND2	17:O2:261:LYS:HD2	1.81	0.94
11:I1:885:GLU:C	16:N1:397:GLU:CD	2.24	0.94
11:I1:952:LEU:HD12	16:N1:400:LEU:CG	1.96	0.94
11:I1:1060:PHE:HD2	17:O1:279:ILE:HD13	1.29	0.94
11:I1:1635:HIS:HE1	11:I2:1677:LYS:HD2	1.09	0.94
11:I2:943:ALA:O	17:O3:260:LEU:HB2	1.68	0.94
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG22	0.98	0.94
11:I4:817:ASP:HB2	26:X3:498:SER:O	1.68	0.94
11:I4:1276:GLN:OE1	26:X3:520:GLU:CG	2.08	0.94
2:A2:975:GLU:H	6:D1:499:LEU:HG	1.18	0.94
2:A2:1144:ASP:H	3:A5:129:ASN:CB	1.79	0.94
1:A3:1186:TRP:CH2	3:A6:583:LEU:CB	2.50	0.94
1:A3:1189:LEU:HD11	3:A6:579:PHE:CZ	2.02	0.94
1:A3:1202:GLU:HG2	3:A6:91:LEU:N	1.82	0.94
2:A4:227:SER:CB	6:D3:708:ASP:O	2.16	0.94
2:A4:729:SER:HB3	3:A6:678:LEU:CG	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:753:GLU:HA	3:A6:542:LEU:N	1.70	0.94
2:A4:827:ILE:CG2	3:A6:134:VAL:N	2.31	0.94
2:A4:859:GLN:OE1	3:A6:131:PRO:HD2	1.68	0.94
2:A4:978:ASP:H	6:D3:467:PHE:HE1	1.01	0.94
3:A5:1391:ARG:HB3	28:Z2:871:HIS:N	1.81	0.94
8:F2:1090:PRO:HB3	17:O4:245:GLU:OE2	1.60	0.94
11:I2:828:VAL:O	17:O3:237:PRO:CB	2.15	0.94
11:I2:938:CYS:C	17:O3:261:LYS:O	2.07	0.94
11:I2:995:SER:H	17:O3:271:GLU:HB2	1.20	0.94
2:A2:827:ILE:O	2:A2:863:GLN:CA	2.16	0.93
2:A2:986:THR:CB	6:D1:497:PHE:HE1	1.79	0.93
2:A2:1135:ARG:NE	3:A5:134:VAL:HG11	1.82	0.93
2:A2:1148:ARG:CD	3:A5:171:HIS:O	2.15	0.93
1:A3:1183:LEU:HD13	3:A6:635:ARG:HG3	1.49	0.93
1:A3:1186:TRP:HA	3:A6:641:ALA:CA	1.98	0.93
1:A3:1237:LEU:HD21	3:A6:119:TRP:HZ2	1.29	0.93
2:A4:646:ILE:N	3:A6:501:VAL:O	2.00	0.93
2:A4:672:ARG:HG3	3:A6:96:PRO:HG3	1.06	0.93
2:A4:768:SER:CB	3:A6:477:PHE:CE2	2.51	0.93
2:A4:909:LYS:HG3	6:D3:555:ARG:HH11	1.30	0.93
2:A4:967:GLU:O	6:D3:202:GLN:HB3	0.97	0.93
2:A4:988:ARG:HH22	6:D3:499:LEU:HA	0.78	0.93
3:A5:1395:LYS:CG	28:Z2:873:LEU:N	2.07	0.93
11:I1:913:ALA:H	15:M1:584:GLN:CD	1.70	0.93
11:I2:890:TYR:N	17:O3:242:ARG:CD	2.27	0.93
11:I2:977:ASN:H	20:R3:149:ARG:N	1.59	0.93
2:A2:1147:ILE:O	3:A5:172:PRO:HB3	1.68	0.93
1:A3:1189:LEU:HG	3:A6:641:ALA:HA	1.50	0.93
1:A3:1285:LEU:C	3:A6:581:LYS:NZ	1.82	0.93
1:A3:1393:THR:CB	3:A6:227:SER:C	2.37	0.93
2:A4:536:ALA:O	3:A6:362:PHE:HE2	1.37	0.93
2:A4:727:ASN:O	3:A6:500:LYS:HD3	1.67	0.93
2:A4:778:PHE:CB	6:D3:675:ARG:O	2.08	0.93
2:A4:871:ASN:HB2	6:D3:568:ARG:O	1.67	0.93
2:A4:896:ALA:O	3:A6:165:PHE:CG	2.20	0.93
8:F1:1265:GLN:C	17:O2:265:ASN:HD22	1.71	0.93
9:G1:252:LEU:C	15:M2:602:MET:SD	2.47	0.93
11:I1:956:ILE:HA	20:R1:166:LEU:HD22	0.94	0.93
11:I1:1017:VAL:N	16:N1:411:GLN:CG	2.30	0.93
11:I1:1049:LEU:HB2	20:R1:146:LEU:CD1	1.95	0.93
11:I1:1607:GLN:CB	11:I2:1739:GLU:HA	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:837:MET:HA	17:O3:244:GLU:H	1.34	0.93
11:I2:886:LEU:HD12	17:O3:245:GLU:HB2	1.50	0.93
11:I2:1186:PRO:HG3	17:O4:225:GLN:CD	1.87	0.93
2:A2:980:ARG:CA	6:D1:473:GLU:HG3	1.99	0.93
2:A2:1114:ILE:HD11	5:C2:731:LYS:HB2	1.44	0.93
2:A2:1137:ALA:HB1	3:A5:564:ASN:CG	1.89	0.93
1:A3:1233:GLN:CA	3:A6:578:ILE:CG2	2.37	0.93
1:A3:1270:SER:CB	3:A6:709:LYS:HZ1	1.77	0.93
1:A3:1271:ILE:HB	3:A6:550:VAL:HG12	1.51	0.93
1:A3:1285:LEU:CD1	3:A6:581:LYS:HA	1.99	0.93
2:A4:774:VAL:CG1	3:A6:467:LEU:H	1.66	0.93
2:A4:859:GLN:HB3	3:A6:134:VAL:CB	1.98	0.93
2:A4:871:ASN:HB3	6:D3:568:ARG:O	1.69	0.93
2:A4:897:ASN:CB	3:A6:166:LEU:O	2.08	0.93
2:A4:954:ILE:HG13	4:B6:346:LEU:H	1.32	0.93
3:A6:446:LEU:HD12	6:D3:722:LEU:H	1.32	0.93
6:D7:176:SER:CB	11:I3:95:LYS:NZ	2.32	0.93
8:F1:1265:GLN:NE2	17:O2:257:ALA:O	2.01	0.93
8:F1:1265:GLN:OE1	17:O2:258:GLU:O	1.87	0.93
11:I1:1020:ALA:CA	16:N1:405:ALA:C	1.80	0.93
11:I1:1056:PRO:C	17:O1:277:GLU:O	2.06	0.93
11:I2:899:LEU:HD21	17:O3:235:ASN:OD1	1.67	0.93
11:I2:934:LEU:O	15:M3:606:LEU:CA	2.15	0.93
11:I2:995:SER:N	17:O3:271:GLU:HB2	1.51	0.93
11:I4:1274:HIS:N	26:X3:524:SER:CB	2.32	0.93
17:O4:110:LEU:HD22	18:P4:321:ILE:HG13	1.47	0.93
21:S1:678:GLU:HA	21:S2:1127:GLN:HG2	1.00	0.93
1:A3:1196:GLU:O	3:A6:609:GLU:CD	2.05	0.93
1:A3:1220:PRO:HG3	2:A4:732:GLN:OE1	1.68	0.93
1:A3:1236:GLN:CB	3:A6:578:ILE:O	2.16	0.93
1:A3:1239:ALA:N	3:A6:584:GLY:N	2.14	0.93
1:A3:1250:PRO:CB	3:A6:635:ARG:HB3	1.97	0.93
2:A4:669:LEU:HD22	3:A6:542:LEU:H	0.79	0.93
2:A4:693:VAL:H	3:A6:316:ARG:HH12	0.96	0.93
2:A4:975:GLU:HB2	6:D3:499:LEU:HB3	1.49	0.93
6:D6:804:SER:HB2	22:T3:764:PHE:CD2	2.03	0.93
8:F1:1137:GLN:HB2	17:O2:245:GLU:C	1.89	0.93
11:I1:1020:ALA:HB1	16:N1:406:HIS:C	1.83	0.93
11:I1:1048:GLU:HB2	17:O1:284:LYS:HA	1.47	0.93
11:I1:1543:LEU:HD13	11:I2:1677:LYS:CE	1.98	0.93
11:I1:1667:GLN:HG3	11:I2:1665:LEU:HG	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG11	1.82	0.93
11:I4:1274:HIS:CG	26:X3:524:SER:OG	2.09	0.93
2:A2:780:GLU:HB2	6:D1:677:GLN:CB	1.98	0.93
2:A2:969:ASP:O	6:D1:192:TYR:CD1	2.21	0.93
2:A2:985:ALA:HB1	6:D1:500:LYS:H	1.34	0.93
1:A3:1120:ASP:O	3:A6:599:ARG:NE	2.01	0.93
1:A3:1242:THR:HG23	3:A6:588:SER:H	1.13	0.93
2:A4:678:LEU:O	3:A6:431:PHE:CD1	2.21	0.93
2:A4:712:THR:C	3:A6:490:PHE:CZ	2.40	0.93
2:A4:729:SER:HB3	3:A6:678:LEU:HD23	0.94	0.93
2:A4:777:LEU:C	6:D3:678:GLY:CA	2.25	0.93
2:A4:789:LEU:HD21	3:A6:146:LYS:HA	1.49	0.93
2:A4:819:VAL:O	3:A6:562:LEU:CD1	2.06	0.93
2:A4:975:GLU:N	6:D3:499:LEU:CB	2.32	0.93
3:A5:150:PHE:CE2	5:C2:740:ARG:O	2.20	0.93
3:A5:186:ILE:O	5:C2:745:SER:HA	1.68	0.93
3:A6:520:GLU:H	6:D3:680:SER:C	1.58	0.93
8:F2:1089:PRO:O	17:O4:245:GLU:HA	1.68	0.93
11:I1:853:ILE:CG2	17:O1:254:ARG:HD3	1.88	0.93
11:I1:950:LEU:HD11	16:N1:410:MET:HB3	1.48	0.93
11:I2:1018:LYS:H	16:N3:413:VAL:H	1.10	0.93
11:I3:1274:HIS:HB3	26:X1:534:ILE:HG21	1.49	0.93
1:A1:1332:ARG:NH1	6:D1:682:ASN:N	2.09	0.93
2:A2:227:SER:CB	6:D1:711:PHE:CD2	2.48	0.93
2:A2:1132:PRO:HD2	3:A5:160:ILE:HG12	1.48	0.93
1:A3:1229:VAL:CG2	3:A6:574:ARG:CB	2.45	0.93
1:A3:1271:ILE:HG23	3:A6:553:ASP:CG	1.89	0.93
1:A3:1311:ARG:HD3	3:A6:712:THR:N	1.84	0.93
1:A3:1388:ALA:HB1	3:A6:224:PRO:O	1.67	0.93
2:A4:638:GLU:HB3	3:A6:498:ARG:NH1	1.81	0.93
2:A4:692:VAL:N	3:A6:316:ARG:NH2	2.17	0.93
2:A4:705:ILE:H	3:A6:464:PRO:HD2	1.29	0.93
2:A4:710:LEU:C	3:A6:490:PHE:HB3	1.88	0.93
2:A4:864:ARG:HB3	6:D3:608:ILE:H	1.30	0.93
2:A4:864:ARG:HB3	6:D3:608:ILE:HG12	1.48	0.93
2:A4:892:SER:O	3:A6:177:ILE:HD12	1.69	0.93
3:A6:523:ASN:ND2	6:D3:635:ALA:CB	2.31	0.93
11:I1:837:MET:HG3	17:O1:238:ALA:O	1.68	0.93
11:I2:1031:ALA:H	20:R3:172:ASP:C	1.71	0.93
11:I2:1043:LEU:HD13	16:N3:430:ARG:O	1.68	0.93
11:I2:1048:GLU:HB2	17:O3:284:LYS:CB	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1103:LEU:HD13	20:R3:174:ARG:HB2	1.51	0.93
11:I4:813:ILE:O	26:X3:496:THR:HG23	1.66	0.93
1:A3:1311:ARG:HD3	3:A6:712:THR:HA	1.49	0.93
2:A4:542:LEU:HG	3:A6:364:HIS:HE1	0.83	0.93
2:A4:687:LEU:HD11	3:A6:476:PHE:HZ	1.25	0.93
2:A4:720:LEU:HB2	3:A6:512:GLU:HA	1.48	0.93
2:A4:757:LEU:HD12	3:A6:543:GLY:HA2	0.94	0.93
2:A4:896:ALA:CB	3:A6:164:LEU:HG	1.99	0.93
4:B5:344:ALA:HA	5:C2:737:LYS:NZ	1.81	0.93
11:I1:959:SER:CB	16:N1:395:GLU:HB3	1.98	0.93
11:I2:945:LEU:HD12	17:O3:255:GLY:C	1.86	0.93
11:I2:980:ILE:O	15:M3:618:GLN:CG	2.16	0.93
11:I2:1054:ILE:CA	17:O3:281:ALA:H	1.79	0.93
1:A1:1402:ASP:N	2:A2:884:ARG:NH1	2.17	0.93
2:A2:777:LEU:HA	6:D1:678:GLY:HA3	1.48	0.93
1:A3:1202:GLU:HG2	3:A6:91:LEU:H	1.31	0.93
1:A3:1251:VAL:HG23	3:A6:633:MET:CB	1.97	0.93
2:A4:80:LYS:NZ	3:A6:387:THR:HG22	1.83	0.93
2:A4:553:ASP:HA	3:A6:435:PRO:CD	1.98	0.93
2:A4:555:VAL:CG2	3:A6:437:ARG:HH22	1.57	0.93
2:A4:706:PRO:HD2	3:A6:482:LYS:HG3	1.47	0.93
2:A4:773:PHE:CD1	3:A6:469:PHE:CZ	2.57	0.93
3:A6:1403:MSE:HG2	26:X4:742:ALA:HA	0.94	0.93
8:F1:1205:TRP:CD2	17:O2:254:ARG:CD	2.47	0.93
9:G1:256:GLN:H	17:O2:257:ALA:CB	1.81	0.93
11:I1:877:ILE:HG21	17:O1:253:LEU:HB2	1.19	0.93
11:I1:1038:ILE:HB	20:R1:168:LEU:O	1.66	0.93
11:I1:1046:HIS:HB2	17:O1:280:GLU:O	1.69	0.93
11:I2:1104:LEU:CD2	16:N3:433:GLU:CG	2.24	0.93
2:A2:992:TYR:HB3	6:D1:238:ALA:HB1	1.50	0.93
2:A2:1149:THR:N	3:A5:172:PRO:CD	2.32	0.93
1:A3:1170:ILE:HG23	3:A6:591:ASP:HB2	1.51	0.93
2:A4:75:LEU:CD2	3:A6:323:THR:OG1	2.11	0.93
2:A4:672:ARG:HB3	3:A6:96:PRO:CA	1.99	0.93
2:A4:689:LYS:CG	3:A6:396:ALA:CB	2.16	0.93
2:A4:721:ARG:NE	3:A6:122:PHE:CZ	2.37	0.93
2:A4:878:LEU:C	6:D3:567:LEU:CD1	2.36	0.93
2:A4:896:ALA:HB3	3:A6:164:LEU:HG	1.50	0.93
2:A4:945:ARG:CA	4:B6:351:GLU:OE1	2.14	0.93
3:A5:1029:ILE:HG22	11:I5:71:GLU:H	1.16	0.93
3:A6:842:ARG:NH2	8:F2:777:ASN:OD1	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CD1	2.29	0.93
11:I2:964:SER:C	20:R3:153:GLN:HE21	1.72	0.93
11:I2:1024:PHE:HB2	16:N3:406:HIS:CD2	2.03	0.93
11:I2:1030:ARG:HB3	20:R3:172:ASP:O	1.67	0.93
11:I4:1276:GLN:HG2	26:X3:521:TRP:H	1.33	0.93
2:A2:223:THR:CA	6:D1:709:ARG:HH22	1.82	0.93
2:A2:776:MET:HG2	6:D1:678:GLY:O	1.66	0.93
2:A2:870:HIS:HE2	6:D1:551:PHE:C	1.72	0.93
2:A2:872:ALA:CB	6:D1:565:MET:CA	2.42	0.93
2:A2:970:PHE:C	6:D1:202:GLN:HG3	1.89	0.93
1:A3:1190:ILE:HA	3:A6:613:ALA:O	1.69	0.93
1:A3:1229:VAL:N	3:A6:574:ARG:CB	2.23	0.93
1:A3:1236:GLN:NE2	3:A6:573:ARG:HE	1.67	0.93
1:A3:1242:THR:HG21	3:A6:587:VAL:CG2	1.99	0.93
2:A4:674:ASP:N	3:A6:100:SER:OG	1.84	0.93
2:A4:857:LYS:NZ	3:A6:129:ASN:HD22	1.58	0.93
11:I1:894:VAL:HG21	17:O1:238:ALA:H	1.24	0.93
11:I1:914:ASN:CB	15:M1:588:MET:H	1.82	0.93
11:I1:945:LEU:CD2	17:O1:258:GLU:CB	2.25	0.93
11:I1:1066:LEU:O	16:N1:429:GLU:HB2	1.69	0.93
11:I2:833:PHE:CE1	17:O3:245:GLU:OE1	2.21	0.93
11:I2:955:LYS:HB2	16:N3:400:LEU:HD23	1.49	0.93
1:A3:1225:PRO:HD3	3:A6:497:GLY:N	1.82	0.92
1:A3:1271:ILE:CA	3:A6:550:VAL:HB	1.99	0.92
1:A3:1278:PRO:HB3	3:A6:624:ASP:N	1.79	0.92
2:A4:648:TYR:CD2	3:A6:504:PRO:CD	2.52	0.92
2:A4:713:ILE:HB	3:A6:462:LEU:HD13	1.49	0.92
2:A4:754:HIS:HD2	3:A6:538:ALA:HA	1.31	0.92
2:A4:941:ALA:HA	4:B6:350:GLU:HG3	1.50	0.92
2:A4:970:PHE:CA	6:D3:202:GLN:HG3	1.98	0.92
2:A4:988:ARG:CG	6:D3:500:LYS:CG	2.37	0.92
3:A5:221:SER:HB3	5:C2:738:ASP:OD2	1.67	0.92
3:A5:1406:GLY:N	28:Z2:917:ASP:C	2.21	0.92
5:C1:732:LYS:HZ2	11:I1:1225:LYS:CD	1.75	0.92
8:F1:1202:TYR:CB	17:O2:252:VAL:HG22	1.99	0.92
11:I1:945:LEU:HD21	17:O1:258:GLU:CA	1.99	0.92
11:I1:1109:LEU:CG	16:N1:438:LEU:HA	1.78	0.92
11:I2:880:MET:SD	17:O3:250:LEU:HD23	1.81	0.92
18:P1:277:PRO:HB3	18:P4:323:GLN:H	1.29	0.92
21:S1:670:ILE:H	21:S2:1146:ALA:HA	1.31	0.92
23:U3:278:GLN:NE2	25:W4:188:ASN:O	1.88	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:875:LEU:HD12	6:D3:276:GLY:C	1.90	0.92
2:A2:973:GLU:HB3	6:D1:205:LEU:CD2	1.96	0.92
2:A2:981:PRO:CG	6:D1:504:LYS:HG3	1.99	0.92
2:A2:987:LYS:CD	6:D1:555:ARG:CZ	2.47	0.92
1:A3:1169:LEU:O	3:A6:590:SER:O	1.86	0.92
1:A3:1234:GLN:O	3:A6:583:LEU:CD1	2.13	0.92
1:A3:1249:PHE:HE1	3:A6:584:GLY:N	1.66	0.92
1:A3:1311:ARG:HD3	3:A6:712:THR:CA	2.00	0.92
1:A3:1318:TRP:HZ2	3:A6:624:ASP:OD2	1.50	0.92
2:A4:75:LEU:O	3:A6:323:THR:HG22	1.39	0.92
2:A4:93:ASP:HB2	3:A6:429:LEU:N	1.82	0.92
2:A4:616:ALA:CB	3:A6:109:ASP:OD2	2.10	0.92
2:A4:691:LYS:HD2	3:A6:316:ARG:HB2	1.51	0.92
2:A4:879:LEU:CD1	6:D3:564:ASN:ND2	2.33	0.92
3:A6:1367:THR:HB	28:Z4:877:ILE:H	0.77	0.92
3:A6:1410:ALA:N	26:X4:686:ASP:CA	2.32	0.92
9:G1:254:ASN:HD21	17:O2:261:LYS:CE	1.80	0.92
11:I1:873:ILE:O	17:O1:251:ILE:HG22	1.64	0.92
11:I2:946:THR:C	17:O3:260:LEU:HD23	1.89	0.92
11:I2:957:SER:HB2	20:R3:168:LEU:C	1.88	0.92
11:I2:989:GLY:HA3	15:M3:614:ASP:CB	1.98	0.92
11:I3:1239:ASP:HB3	26:X1:116:ARG:HH21	1.34	0.92
11:I3:1267:LEU:CD1	26:X1:529:TRP:CD2	2.51	0.92
1:A1:1225:PRO:O	2:A2:728:LYS:HB3	1.67	0.92
2:A2:980:ARG:CB	6:D1:526:LEU:HB3	2.00	0.92
2:A4:602:ILE:HG12	3:A6:506:SER:HB3	1.46	0.92
2:A4:793:SER:OG	3:A6:187:THR:O	1.85	0.92
3:A6:842:ARG:NH2	8:F2:777:ASN:CG	2.22	0.92
11:I2:931:VAL:HB	15:M3:600:ASN:C	1.89	0.92
11:I2:952:LEU:HD23	15:M3:602:MET:HG3	1.49	0.92
11:I2:1101:LEU:C	16:N3:432:TYR:OH	2.02	0.92
21:S1:680:PRO:CB	21:S2:1071:LEU:HA	1.98	0.92
1:A3:1088:ASN:HA	6:D3:808:ASN:CB	1.99	0.92
2:A4:536:ALA:CA	3:A6:369:SER:N	2.33	0.92
2:A4:685:ARG:HH21	3:A6:432:VAL:HG11	1.32	0.92
2:A4:777:LEU:HD12	3:A6:467:LEU:HD11	0.92	0.92
2:A4:827:ILE:CG2	3:A6:134:VAL:H	1.82	0.92
11:I1:987:GLY:H	15:M1:613:ASP:N	1.40	0.92
11:I2:934:LEU:HB2	15:M3:601:ASP:O	1.69	0.92
11:I2:1040:HIS:HE2	16:N3:437:VAL:HG11	1.23	0.92
11:I4:1271:GLU:O	26:X3:521:TRP:HD1	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:601:LEU:H	21:S4:1156:ILE:HA	1.34	0.92
2:A2:862:LEU:N	6:D1:606:LYS:HE3	1.83	0.92
1:A3:1186:TRP:O	3:A6:641:ALA:CB	2.17	0.92
1:A3:1274:ASP:CB	3:A6:556:PRO:HD2	1.96	0.92
2:A4:757:LEU:HD12	3:A6:543:GLY:N	1.85	0.92
2:A4:861:GLN:HA	6:D3:607:PRO:CG	1.98	0.92
2:A4:892:SER:HB3	3:A6:230:LYS:O	1.69	0.92
2:A4:954:ILE:CB	4:B6:345:LYS:CA	2.45	0.92
3:A5:1405:LEU:N	28:Z2:918:PHE:H	1.29	0.92
3:A6:444:ARG:CD	6:D3:733:ALA:HB2	1.72	0.92
3:A6:842:ARG:CD	8:F2:776:HIS:CE1	2.52	0.92
3:A6:1151:THR:HA	5:C6:733:LEU:HD12	1.49	0.92
11:I1:889:THR:N	17:O1:242:ARG:CZ	2.32	0.92
11:I1:896:PRO:N	17:O1:233:THR:CA	2.32	0.92
11:I1:947:LEU:CD1	17:O1:256:TYR:OH	2.18	0.92
11:I2:968:PRO:C	20:R3:149:ARG:HH12	1.72	0.92
11:I2:1037:THR:HB	15:M3:624:ASN:ND2	1.85	0.92
11:I2:1113:LEU:HD22	17:O3:282:LYS:NZ	1.85	0.92
1:A1:1200:ARG:HE	2:A2:642:ARG:NH2	1.65	0.92
2:A2:827:ILE:HA	2:A2:860:GLU:CA	1.97	0.92
2:A2:874:VAL:HG13	6:D1:611:LYS:CB	1.98	0.92
2:A2:876:ARG:CD	6:D1:558:LYS:CA	2.47	0.92
2:A2:1148:ARG:HH12	3:A5:169:TYR:HA	1.33	0.92
1:A3:1281:LEU:CB	3:A6:625:LEU:HG	1.99	0.92
2:A4:80:LYS:HG3	3:A6:323:THR:CB	2.00	0.92
2:A4:549:ALA:HA	3:A6:105:GLY:C	1.63	0.92
2:A4:635:ARG:NH1	3:A6:603:ASN:HB2	1.84	0.92
2:A4:974:PRO:C	6:D3:499:LEU:HG	1.88	0.92
2:A4:975:GLU:N	6:D3:499:LEU:CD1	2.33	0.92
3:A5:1026:PRO:HB2	11:I5:73:TYR:CE1	1.95	0.92
3:A6:485:ASN:N	6:D3:676:ALA:H	1.68	0.92
8:F1:1264:ARG:NH1	17:O2:264:ILE:HD13	1.85	0.92
8:F1:1392:LEU:HD21	17:O2:266:GLN:HE22	1.35	0.92
11:I1:947:LEU:CD1	17:O1:256:TYR:HE2	1.77	0.92
11:I1:966:TRP:CD1	20:R1:165:SER:O	2.23	0.92
11:I1:998:ALA:HB2	17:O1:267:ALA:HB2	1.50	0.92
11:I1:1024:PHE:HB3	16:N1:406:HIS:HB2	1.48	0.92
11:I2:955:LYS:H	16:N3:403:VAL:HG22	1.33	0.92
11:I2:987:GLY:H	15:M3:613:ASP:CB	1.83	0.92
11:I2:1052:LEU:CD2	16:N3:434:LEU:HD11	1.99	0.92
1:A3:1201:ARG:HH22	3:A6:537:ALA:HB3	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1225:PRO:HD3	2:A4:723:PHE:O	1.70	0.92
1:A3:1229:VAL:HG22	3:A6:574:ARG:CB	1.99	0.92
1:A3:1259:CYS:N	3:A6:623:SER:HB3	1.82	0.92
2:A4:710:LEU:HD22	3:A6:479:VAL:O	1.67	0.92
2:A4:720:LEU:CD1	3:A6:494:PRO:HA	1.99	0.92
2:A4:757:LEU:HD11	3:A6:95:TYR:O	1.34	0.92
2:A4:824:ASN:ND2	3:A6:158:ALA:HB3	1.85	0.92
2:A4:892:SER:CA	3:A6:232:LEU:H	1.83	0.92
3:A6:520:GLU:OE1	6:D3:636:ASP:CA	2.18	0.92
11:I1:946:THR:O	16:N1:407:ALA:HB1	1.67	0.92
11:I1:1038:ILE:C	15:M1:620:VAL:HG22	1.89	0.92
11:I2:1021:ILE:HG12	16:N3:410:MET:HE2	0.93	0.92
11:I2:1045:PHE:C	15:M3:619:ILE:HD11	1.80	0.92
21:S1:597:ILE:O	21:S2:1155:GLN:NE2	1.99	0.92
1:A1:1221:ILE:CG2	2:A2:642:ARG:CA	2.45	0.92
1:A3:1201:ARG:CG	3:A6:548:LEU:HB2	2.00	0.92
1:A3:1270:SER:HG	3:A6:553:ASP:CG	1.73	0.92
2:A4:688:TRP:CE3	3:A6:395:MET:CE	2.53	0.92
2:A4:718:GLU:CG	3:A6:491:VAL:C	2.38	0.92
2:A4:770:GLY:N	3:A6:469:PHE:HB2	1.83	0.92
2:A4:808:GLN:HG3	3:A6:383:PRO:CG	2.00	0.92
3:A5:1399:ARG:CZ	28:Z2:909:LEU:CB	2.46	0.92
3:A6:520:GLU:HB3	6:D3:639:LEU:HG	1.50	0.92
9:G1:254:ASN:CG	15:M2:605:THR:OG1	2.08	0.92
11:I1:953:LEU:H	16:N1:403:VAL:CG1	1.83	0.92
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD12	1.51	0.92
11:I2:890:TYR:HB2	17:O3:238:ALA:O	1.70	0.92
11:I2:953:LEU:CD1	15:M3:606:LEU:HB3	2.00	0.92
11:I2:1037:THR:HG21	20:R3:169:GLY:CA	2.00	0.92
11:I2:1046:HIS:C	17:O3:284:LYS:HG3	1.84	0.92
21:S2:1052:LEU:HD21	21:S2:1073:ILE:HD13	1.50	0.92
2:A2:1135:ARG:NH1	3:A5:167:TRP:HH2	1.55	0.92
1:A3:1221:ILE:CG1	3:A6:498:ARG:O	2.18	0.92
1:A3:1233:GLN:OE1	3:A6:605:TYR:CZ	2.22	0.92
2:A4:898:LEU:HD23	4:B6:344:ALA:HA	1.49	0.92
3:A5:175:GLU:OE2	5:C2:735:ILE:HG12	1.67	0.92
5:C3:732:LYS:HZ1	11:I2:1225:LYS:HD2	0.84	0.92
8:F1:1264:ARG:HH22	17:O2:264:ILE:CD1	1.83	0.92
8:F1:1392:LEU:CD2	17:O2:266:GLN:HE22	1.83	0.92
11:I1:880:MET:HE2	17:O1:247:TRP:HE3	0.84	0.92
11:I1:949:CYS:O	16:N1:403:VAL:HG13	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:880:MET:O	17:O3:246:LEU:O	1.87	0.92
11:I2:946:THR:N	17:O3:260:LEU:H	1.66	0.92
2:A2:878:LEU:HD12	6:D1:608:ILE:HG23	0.93	0.92
2:A2:983:LEU:HB2	6:D1:528:PHE:CZ	2.05	0.92
2:A2:989:MSE:HE1	6:D1:240:ASP:HA	1.34	0.92
2:A2:1160:GLN:OE1	3:A5:178:GLY:CA	2.18	0.92
1:A3:1117:ILE:CD1	3:A6:590:SER:OG	2.17	0.92
1:A3:1281:LEU:HD22	3:A6:577:ASP:HA	1.51	0.92
2:A4:674:ASP:O	3:A6:98:LEU:O	1.87	0.92
2:A4:729:SER:CB	3:A6:678:LEU:HD23	1.75	0.92
2:A4:754:HIS:HA	3:A6:543:GLY:C	1.89	0.92
2:A4:879:LEU:CB	6:D3:564:ASN:CB	2.47	0.92
2:A4:1054:SER:CB	6:D4:762:ARG:NE	2.33	0.92
3:A5:1046:LEU:HD11	11:I5:70:GLU:HB2	1.51	0.92
11:I1:945:LEU:HG	17:O1:258:GLU:H	1.20	0.92
11:I1:1045:PHE:CZ	16:N1:435:ALA:N	2.36	0.92
11:I2:890:TYR:HA	17:O3:238:ALA:C	1.90	0.92
1:A1:1224:PRO:CG	2:A2:731:ILE:CD1	2.39	0.91
2:A2:1142:PHE:HZ	3:A5:567:VAL:HG22	0.75	0.91
1:A3:1248:ILE:CG1	3:A6:587:VAL:HG22	1.96	0.91
2:A4:609:GLU:OE2	3:A6:104:PRO:O	1.88	0.91
2:A4:701:ILE:HD12	3:A6:466:ALA:HB3	1.50	0.91
2:A4:780:GLU:HA	6:D3:679:ILE:HD11	1.40	0.91
2:A4:973:GLU:N	6:D3:205:LEU:N	2.17	0.91
3:A5:220:VAL:HG13	5:C2:738:ASP:C	1.90	0.91
3:A6:444:ARG:HD2	6:D3:733:ALA:HB2	0.92	0.91
3:A6:485:ASN:CA	6:D3:673:ARG:C	2.25	0.91
11:I1:959:SER:HB3	20:R1:166:LEU:HD21	1.52	0.91
11:I1:1667:GLN:HB2	11:I2:1664:PHE:H	1.33	0.91
11:I2:952:LEU:HD11	17:O3:250:LEU:CD1	1.82	0.91
11:I2:1054:ILE:H	17:O3:282:LYS:N	1.32	0.91
21:S1:597:ILE:CB	21:S2:1119:LEU:N	2.33	0.91
21:S4:1052:LEU:HD21	21:S4:1073:ILE:HD13	1.50	0.91
1:A1:1054:SER:OG	6:D1:809:ALA:HB1	1.70	0.91
1:A1:1332:ARG:HD2	6:D1:636:ASP:OD1	1.69	0.91
1:A3:1231:VAL:HG13	3:A6:617:VAL:HG23	0.92	0.91
1:A3:1261:TYR:CG	3:A6:621:GLN:CD	2.18	0.91
1:A3:1285:LEU:CB	3:A6:581:LYS:HZ2	1.78	0.91
2:A4:711:VAL:H	3:A6:480:VAL:HG21	1.35	0.91
2:A4:717:VAL:HG12	3:A6:492:SER:C	1.88	0.91
2:A4:789:LEU:CD2	3:A6:146:LYS:HA	1.97	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:867:GLU:N	6:D3:605:THR:CG2	2.32	0.91
2:A4:870:HIS:CB	6:D3:566:PHE:CE1	2.53	0.91
2:A4:1055:ARG:CD	6:D4:762:ARG:CA	2.45	0.91
3:A6:1368:GLN:HB2	28:Z4:878:HIS:CB	2.01	0.91
6:D7:530:ARG:HG2	11:I3:181:GLN:CB	2.00	0.91
9:G1:255:LEU:CA	15:M2:602:MET:HB3	1.98	0.91
11:I1:797:LEU:HD22	17:O1:245:GLU:CG	2.00	0.91
11:I1:931:VAL:HG22	15:M1:604:ASN:CA	2.00	0.91
11:I1:976:ARG:NH2	15:M1:622:VAL:HG21	1.85	0.91
11:I2:828:VAL:HG12	17:O3:237:PRO:CG	2.00	0.91
11:I2:984:GLU:OE2	15:M3:618:GLN:CB	2.17	0.91
11:I2:1049:LEU:HD11	17:O3:291:ASP:OD1	1.69	0.91
11:I4:1279:THR:HG21	26:X3:520:GLU:HB2	1.52	0.91
11:I5:1279:THR:OG1	26:X2:520:GLU:CB	2.06	0.91
1:A1:1222:ALA:HB2	2:A2:615:LEU:HD12	0.93	0.91
2:A2:823:VAL:CA	2:A2:856:PHE:CE1	1.98	0.91
2:A2:1142:PHE:HE2	3:A5:567:VAL:HB	1.30	0.91
1:A3:1052:THR:HG1	6:D3:816:VAL:HB	1.25	0.91
1:A3:1261:TYR:CD1	3:A6:621:GLN:HB2	1.44	0.91
1:A3:1284:ASN:C	3:A6:581:LYS:NZ	2.24	0.91
1:A3:1285:LEU:CA	3:A6:581:LYS:NZ	0.77	0.91
1:A3:1332:ARG:HB2	3:A6:127:HIS:HE1	1.28	0.91
2:A4:652:PRO:CG	3:A6:542:LEU:HD13	1.99	0.91
2:A4:684:VAL:HG21	3:A6:395:MET:CG	2.00	0.91
2:A4:802:TYR:CG	3:A6:397:LEU:HD23	2.05	0.91
2:A4:815:ALA:O	3:A6:527:GLU:HB3	1.67	0.91
2:A4:860:GLU:OE1	3:A6:129:ASN:HB3	1.69	0.91
2:A4:897:ASN:ND2	3:A6:165:PHE:CB	2.30	0.91
2:A4:984:ALA:O	6:D3:498:GLU:HA	1.71	0.91
3:A5:160:ILE:HD12	5:C2:743:LEU:HD12	1.51	0.91
3:A5:995:VAL:C	11:I5:58:ALA:HA	1.90	0.91
3:A5:1026:PRO:HB3	11:I5:73:TYR:CD1	2.01	0.91
3:A5:1151:THR:HA	5:C5:733:LEU:HD12	1.49	0.91
3:A5:1406:GLY:N	28:Z2:917:ASP:O	2.02	0.91
11:I1:1048:GLU:OE2	20:R1:143:PHE:HB2	1.70	0.91
11:I1:1068:HIS:HE1	16:N1:431:VAL:HB	1.32	0.91
11:I2:939:ASN:CG	17:O3:265:ASN:OD1	2.08	0.91
11:I2:949:CYS:SG	15:M3:602:MET:HE2	2.09	0.91
11:I2:1035:GLN:CA	15:M3:626:HIS:HB2	1.74	0.91
11:I3:1278:ALA:HB2	26:X1:516:ASN:O	1.70	0.91
2:A2:827:ILE:CD1	2:A2:859:GLN:N	2.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:827:ILE:HD13	2:A2:859:GLN:N	1.65	0.91
2:A2:982:THR:OG1	6:D1:498:GLU:N	2.04	0.91
2:A2:1151:THR:HA	5:C2:733:LEU:HA	1.52	0.91
1:A3:835:THR:CG2	6:D1:302:PRO:HG2	1.97	0.91
1:A3:1226:LEU:HD22	3:A6:550:VAL:CA	2.00	0.91
1:A3:1321:MET:CE	3:A6:126:ARG:HH22	1.83	0.91
2:A4:701:ILE:HG21	3:A6:481:ARG:CB	1.98	0.91
2:A4:713:ILE:HB	3:A6:462:LEU:CD1	1.96	0.91
2:A4:765:GLU:CB	3:A6:559:PHE:CZ	2.37	0.91
2:A4:886:PHE:CA	3:A6:174:PRO:C	2.33	0.91
2:A4:978:ASP:O	6:D3:475:ALA:CB	2.17	0.91
2:A4:983:LEU:CD2	6:D3:497:PHE:CE1	2.51	0.91
3:A5:220:VAL:CG1	5:C2:739:MET:CB	2.42	0.91
3:A6:523:ASN:ND2	6:D3:635:ALA:HB3	1.84	0.91
5:C1:732:LYS:CE	11:I1:1228:GLU:HG3	2.00	0.91
8:F2:1091:SER:O	17:O4:244:GLU:HB3	1.71	0.91
11:I1:1030:ARG:CG	20:R1:179:LYS:HE2	2.00	0.91
11:I1:1605:LEU:HB2	11:I2:1669:ARG:CZ	2.01	0.91
11:I2:890:TYR:HD1	17:O3:238:ALA:C	1.70	0.91
11:I2:947:LEU:CD2	17:O3:256:TYR:OH	2.15	0.91
11:I2:947:LEU:CD1	16:N3:407:ALA:O	2.18	0.91
11:I2:978:LYS:HE2	20:R3:153:GLN:N	1.82	0.91
11:I2:1034:ASP:HB2	15:M3:630:LEU:HD13	1.48	0.91
21:S1:671:ALA:HA	21:S2:1145:LYS:CB	2.00	0.91
1:A1:1204:TRP:CD1	2:A2:731:ILE:CG1	2.51	0.91
1:A1:1204:TRP:HZ2	2:A2:676:LEU:HD12	1.12	0.91
1:A3:832:ASN:OD1	6:D1:302:PRO:HB3	1.70	0.91
1:A3:1123:GLU:CB	3:A6:599:ARG:CD	2.39	0.91
1:A3:1123:GLU:CD	3:A6:599:ARG:HD2	1.89	0.91
2:A4:701:ILE:CG2	3:A6:481:ARG:HB3	2.00	0.91
2:A4:767:ILE:HA	3:A6:470:ARG:CA	1.99	0.91
2:A4:806:PHE:CD2	3:A6:395:MET:CE	2.44	0.91
2:A4:858:ALA:CB	3:A6:174:PRO:O	2.19	0.91
3:A5:1310:ARG:NH2	28:Z2:827:GLN:HA	1.86	0.91
9:G1:252:LEU:O	15:M2:602:MET:SD	2.27	0.91
9:G1:257:THR:HA	17:O2:253:LEU:H	1.24	0.91
11:I1:873:ILE:O	17:O1:251:ILE:HG23	1.71	0.91
11:I1:877:ILE:CG2	17:O1:253:LEU:CB	2.33	0.91
11:I1:939:ASN:O	17:O1:262:ASP:C	2.08	0.91
11:I1:950:LEU:CD1	16:N1:406:HIS:O	2.18	0.91
11:I1:1667:GLN:CG	11:I2:1665:LEU:CB	2.45	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CB	2.00	0.91
11:I2:836:VAL:HG12	17:O3:244:GLU:HB2	1.49	0.91
11:I2:1034:ASP:O	16:N3:441:PHE:CD2	2.24	0.91
11:I2:1041:GLN:NE2	15:M3:614:ASP:O	2.02	0.91
17:O2:111:TYR:N	18:P2:325:ILE:CG2	2.29	0.91
21:S2:1016:LYS:HE2	21:S2:1039:GLU:HG3	1.53	0.91
2:A2:780:GLU:CG	6:D1:678:GLY:C	2.30	0.91
2:A2:1147:ILE:C	3:A5:172:PRO:HB2	1.83	0.91
2:A4:726:ALA:C	3:A6:575:LEU:HD22	1.90	0.91
2:A4:732:GLN:CG	3:A6:91:LEU:CD1	2.44	0.91
2:A4:754:HIS:HA	3:A6:543:GLY:CA	2.00	0.91
2:A4:827:ILE:HA	2:A4:860:GLU:CA	1.97	0.91
2:A4:886:PHE:HB3	3:A6:175:GLU:HB2	1.47	0.91
2:A4:947:LYS:N	4:B6:351:GLU:HB3	1.75	0.91
3:A5:1374:ALA:O	28:Z2:814:THR:C	1.96	0.91
3:A6:520:GLU:HG2	6:D3:639:LEU:HD12	0.93	0.91
3:A6:1393:THR:N	28:Z4:913:ILE:H	1.68	0.91
8:F1:1137:GLN:HA	17:O2:248:SER:HB3	0.94	0.91
11:I1:923:GLY:CA	15:M1:591:ASP:C	2.34	0.91
11:I1:947:LEU:O	17:O1:253:LEU:CD2	2.18	0.91
11:I1:1029:LEU:HD22	20:R1:174:ARG:CG	2.00	0.91
11:I1:1109:LEU:HD13	17:O1:290:TYR:CE2	0.61	0.91
11:I1:1739:GLU:C	11:I2:1604:ALA:CA	2.28	0.91
11:I2:895:ARG:HD3	17:O3:234:LEU:HD12	1.52	0.91
2:A2:965:LYS:HA	6:D1:199:GLY:HA2	1.52	0.91
2:A2:1167:CYS:SG	4:B5:342:ARG:HG3	2.10	0.91
1:A3:1153:LEU:CD1	3:A6:592:ASP:OD2	2.19	0.91
1:A3:1188:ASN:HD22	3:A6:646:ILE:CG1	1.84	0.91
2:A4:673:HIS:CE1	3:A6:98:LEU:H	1.89	0.91
2:A4:879:LEU:CB	6:D3:564:ASN:CG	2.38	0.91
2:A4:1054:SER:HB2	6:D4:762:ARG:NE	1.85	0.91
3:A5:1310:ARG:O	28:Z2:830:LEU:O	1.89	0.91
3:A6:1368:GLN:HA	28:Z4:875:LEU:HA	1.01	0.91
8:F1:1094:GLY:HA3	17:O2:237:PRO:HA	0.92	0.91
8:F1:1266:MET:HA	17:O2:265:ASN:ND2	1.84	0.91
11:I1:963:LEU:HD21	20:R1:176:ARG:NH2	1.85	0.91
11:I1:1669:ARG:NE	11:I2:1605:LEU:HB2	1.84	0.91
11:I2:1039:ALA:HB2	20:R3:170:LEU:HG	0.92	0.91
2:A2:227:SER:CB	6:D1:712:ASP:N	2.34	0.91
2:A2:865:ALA:O	6:D1:608:ILE:HD13	1.69	0.91
2:A2:909:LYS:O	6:D1:555:ARG:CD	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1198:GLU:HA	3:A6:682:ARG:HE	1.29	0.91
2:A4:688:TRP:CH2	3:A6:382:SER:HB3	2.04	0.91
2:A4:825:ARG:CB	3:A6:138:LEU:CD1	2.41	0.91
2:A4:897:ASN:HD22	3:A6:165:PHE:CB	1.84	0.91
3:A5:996:ASN:HB3	11:I5:59:LEU:H	1.36	0.91
3:A5:1379:GLY:HA2	28:Z2:816:THR:N	1.85	0.91
3:A6:1398:LYS:HZ2	28:Z4:921:THR:CB	1.77	0.91
8:F1:1258:MET:O	17:O2:259:ASP:OD1	1.89	0.91
11:I1:849:LEU:HD22	17:O1:251:ILE:HD11	1.50	0.91
11:I1:899:LEU:HD22	17:O1:231:ASP:CG	1.70	0.91
11:I1:942:HIS:N	17:O1:259:ASP:O	2.04	0.91
11:I1:952:LEU:O	16:N1:403:VAL:HG21	1.70	0.91
11:I2:899:LEU:CD1	17:O3:230:ILE:O	2.18	0.91
11:I2:928:LEU:HD11	20:R3:151:LYS:HE2	1.50	0.91
11:I2:931:VAL:HA	15:M3:601:ASP:O	1.29	0.91
11:I2:948:ALA:CB	17:O3:253:LEU:C	2.27	0.91
11:I2:953:LEU:HD12	15:M3:606:LEU:HB3	1.53	0.91
11:I2:1017:VAL:HG23	16:N3:411:GLN:C	1.90	0.91
11:I2:1017:VAL:CG1	16:N3:410:MET:HG3	2.01	0.91
11:I2:1017:VAL:HG22	16:N3:411:GLN:CA	1.88	0.91
11:I2:1020:ALA:HB2	16:N3:408:MET:N	1.86	0.91
11:I2:1038:ILE:HG23	15:M3:617:THR:HA	1.52	0.91
11:I2:1040:HIS:HB3	16:N3:434:LEU:HD13	1.50	0.91
11:I2:1061:ASP:CB	17:O3:278:GLU:HB2	2.01	0.91
1:A3:1189:LEU:HD11	3:A6:579:PHE:CD1	2.02	0.91
1:A3:1271:ILE:CG2	3:A6:553:ASP:CB	2.05	0.91
2:A4:670:SER:O	3:A6:97:ASP:OD2	1.88	0.91
2:A4:868:GLN:C	6:D3:598:ILE:HB	1.89	0.91
3:A5:1312:ARG:CD	28:Z2:832:PHE:O	2.05	0.91
3:A6:1365:VAL:CA	28:Z4:878:HIS:HA	2.00	0.91
11:I1:881:ILE:H	17:O1:249:ARG:C	1.73	0.91
11:I1:990:GLU:OE2	15:M1:611:LYS:NZ	1.99	0.91
11:I2:921:GLU:C	15:M3:592:LEU:C	2.30	0.91
11:I2:939:ASN:CB	17:O3:265:ASN:OD1	2.10	0.91
11:I2:966:TRP:C	20:R3:153:GLN:CB	2.39	0.91
11:I3:815:ILE:CG2	26:X1:497:ARG:H	1.84	0.91
11:I4:1277:LEU:CG	26:X3:517:ASP:CB	2.47	0.91
1:A1:870:HIS:HD2	6:D3:280:GLN:HA	1.34	0.91
1:A1:873:PRO:CG	6:D3:218:LYS:HZ3	1.83	0.91
2:A2:874:VAL:CG1	6:D1:611:LYS:HG2	2.01	0.91
2:A2:907:SER:O	6:D1:601:PHE:HA	1.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1054:SER:O	6:D2:762:ARG:HB3	1.15	0.91
1:A3:1166:LEU:H	3:A6:648:TYR:HE2	0.99	0.91
1:A3:1230:TYR:HE1	3:A6:610:THR:C	1.74	0.91
2:A4:535:PHE:CD2	3:A6:368:SER:O	2.24	0.91
2:A4:679:TYR:N	3:A6:101:TYR:O	2.03	0.91
2:A4:754:HIS:HA	3:A6:543:GLY:HA3	1.50	0.91
2:A4:855:THR:HG21	3:A6:167:TRP:O	1.69	0.91
2:A4:878:LEU:CA	6:D3:567:LEU:CD1	2.48	0.91
2:A4:886:PHE:CB	3:A6:175:GLU:HB3	1.95	0.91
3:A6:1367:THR:HG22	28:Z4:876:LEU:H	1.34	0.91
11:I1:919:ALA:HB3	16:N1:389:PHE:HA	1.52	0.91
11:I1:962:ILE:CD1	15:M1:596:ILE:HG22	1.99	0.91
11:I1:992:ILE:C	15:M1:607:SER:O	2.05	0.91
11:I1:1021:ILE:H	16:N1:409:ALA:HB3	1.31	0.91
11:I1:1023:ASP:CB	16:N1:405:ALA:HB1	2.01	0.91
11:I1:1061:ASP:HA	17:O1:279:ILE:CD1	2.00	0.91
11:I1:1101:LEU:CD2	16:N1:432:TYR:CE1	2.54	0.91
11:I1:1109:LEU:CD1	17:O1:290:TYR:CE2	0.88	0.91
11:I2:894:VAL:CB	17:O3:239:GLN:N	1.79	0.91
11:I2:934:LEU:O	15:M3:606:LEU:N	1.84	0.91
11:I2:976:ARG:HH11	20:R3:146:LEU:C	1.70	0.91
2:A2:825:ARG:HD3	6:D1:633:LYS:NZ	1.85	0.90
2:A2:980:ARG:N	6:D1:473:GLU:HG3	1.86	0.90
2:A2:1155:ASN:HD22	3:A5:177:ILE:HG12	1.36	0.90
1:A3:1162:ASN:CB	3:A6:649:GLY:H	1.83	0.90
2:A4:90:GLN:H	3:A6:407:SER:H	0.93	0.90
2:A4:92:ASP:OD1	3:A6:104:PRO:CA	2.19	0.90
2:A4:670:SER:N	3:A6:542:LEU:CD1	2.34	0.90
2:A4:867:GLU:CG	6:D3:605:THR:CG2	2.38	0.90
3:A5:160:ILE:CD1	5:C2:743:LEU:HD12	2.00	0.90
3:A5:1392:ARG:NH1	28:Z2:867:LYS:H	1.69	0.90
11:I1:947:LEU:HG	16:N1:408:MET:HA	1.51	0.90
11:I1:981:VAL:HG13	20:R1:151:LYS:HG3	1.51	0.90
11:I1:1049:LEU:CD1	15:M1:626:HIS:NE2	2.00	0.90
11:I2:880:MET:HA	17:O3:247:TRP:CA	1.94	0.90
11:I2:895:ARG:HD3	17:O3:234:LEU:CD1	2.01	0.90
11:I2:990:GLU:CA	17:O3:272:SER:HA	2.00	0.90
11:I2:1036:PRO:HG3	17:O3:287:LEU:CD2	2.01	0.90
11:I2:1109:LEU:HD21	17:O3:287:LEU:HD12	1.51	0.90
11:I3:1277:LEU:HD21	26:X1:513:PHE:HB3	0.92	0.90
1:A1:1393:THR:N	2:A2:851:ASP:OD1	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1399:ARG:HG2	2:A2:884:ARG:CB	1.94	0.90
2:A2:868:GLN:O	6:D1:598:ILE:HB	1.70	0.90
2:A2:982:THR:CB	6:D1:494:LEU:HA	2.00	0.90
1:A3:1052:THR:HG23	6:D3:812:VAL:O	1.68	0.90
2:A4:553:ASP:OD1	3:A6:434:PHE:HA	0.73	0.90
2:A4:806:PHE:HD2	3:A6:395:MET:HE2	1.22	0.90
2:A4:879:LEU:HD12	6:D3:564:ASN:ND2	1.85	0.90
2:A4:947:LYS:HD2	3:A6:203:ILE:HD11	1.51	0.90
3:A6:1398:LYS:HD2	28:Z4:918:PHE:C	1.91	0.90
11:I1:881:ILE:H	17:O1:250:LEU:N	1.68	0.90
11:I1:966:TRP:CZ3	20:R1:167:GLN:CG	2.38	0.90
11:I1:1110:SER:OG	16:N1:437:VAL:CB	2.08	0.90
11:I1:1665:LEU:CD2	11:I2:1667:GLN:O	2.18	0.90
11:I2:790:LEU:HD22	17:O3:251:ILE:HD13	1.53	0.90
11:I2:964:SER:N	20:R3:165:SER:CB	2.24	0.90
11:I2:1040:HIS:CB	16:N3:434:LEU:HD13	2.01	0.90
11:I2:1105:TRP:CD2	16:N3:432:TYR:OH	2.11	0.90
11:I2:1106:LYS:CB	16:N3:440:GLU:HG3	2.00	0.90
17:O2:112:GLY:HA3	18:P2:325:ILE:CG2	2.00	0.90
1:A1:1220:PRO:O	2:A2:646:ILE:N	2.04	0.90
2:A2:909:LYS:CA	6:D1:552:TYR:OH	2.18	0.90
2:A2:1161:ALA:O	3:A5:137:HIS:CE1	2.25	0.90
2:A2:1161:ALA:O	3:A5:137:HIS:HE1	1.54	0.90
1:A3:1233:GLN:OE1	2:A4:726:ALA:CB	2.20	0.90
1:A3:1281:LEU:HD21	3:A6:580:ALA:HB3	1.53	0.90
1:A3:1366:LEU:CD1	3:A6:226:PRO:O	2.19	0.90
2:A4:680:LEU:HD23	3:A6:470:ARG:NH2	1.77	0.90
2:A4:682:ARG:HD3	3:A6:106:ALA:CA	2.02	0.90
2:A4:688:TRP:HE1	3:A6:394:LEU:CG	1.82	0.90
2:A4:750:ASN:ND2	3:A6:90:GLN:HG2	1.85	0.90
2:A4:769:GLU:HB2	3:A6:471:PHE:HE2	1.23	0.90
2:A4:775:LEU:HB2	3:A6:489:LEU:HD13	1.49	0.90
2:A4:791:ALA:N	3:A6:187:THR:CG2	2.09	0.90
2:A4:921:VAL:CG2	3:A6:175:GLU:OE2	2.18	0.90
8:F1:1265:GLN:O	17:O2:265:ASN:HB2	1.68	0.90
11:I1:976:ARG:CA	20:R1:149:ARG:HB3	2.00	0.90
11:I1:1043:LEU:CA	16:N1:430:ARG:HB2	2.01	0.90
11:I2:948:ALA:CB	17:O3:253:LEU:CA	2.33	0.90
11:I2:985:ARG:H	15:M3:613:ASP:CA	1.58	0.90
1:A1:1222:ALA:HB1	2:A2:615:LEU:HD11	1.49	0.90
2:A2:971:ALA:O	6:D1:203:PRO:CG	2.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1201:ARG:HH21	3:A6:537:ALA:HB1	1.34	0.90
1:A3:1202:GLU:CG	3:A6:91:LEU:CB	2.46	0.90
1:A3:1242:THR:CG2	3:A6:587:VAL:CB	1.98	0.90
1:A3:1394:VAL:HG23	3:A6:227:SER:HA	1.53	0.90
2:A4:172:PRO:HB3	6:D3:781:ARG:HD3	1.51	0.90
2:A4:535:PHE:CG	3:A6:368:SER:O	2.25	0.90
2:A4:543:GLY:C	3:A6:362:PHE:C	2.29	0.90
2:A4:702:SER:CB	3:A6:379:VAL:HG12	1.85	0.90
2:A4:722:ASN:CB	3:A6:513:GLN:HG3	1.98	0.90
2:A4:761:GLN:HG3	3:A6:545:GLY:HA2	1.54	0.90
2:A4:860:GLU:HG3	3:A6:135:PHE:CE2	2.07	0.90
2:A4:893:LEU:HD11	3:A6:175:GLU:C	1.90	0.90
2:A4:982:THR:HB	6:D3:494:LEU:CA	2.01	0.90
3:A6:484:PRO:C	6:D3:676:ALA:N	2.11	0.90
3:A6:842:ARG:HH22	8:F2:777:ASN:CG	1.73	0.90
11:I1:1023:ASP:HB2	16:N1:405:ALA:CB	2.02	0.90
11:I1:1041:GLN:HB3	15:M1:620:VAL:HG21	1.52	0.90
11:I1:1669:ARG:CB	11:I2:1664:PHE:HZ	1.43	0.90
11:I2:917:TYR:O	15:M3:588:MET:CG	2.18	0.90
11:I2:950:LEU:CD2	16:N3:410:MET:SD	2.60	0.90
11:I2:1018:LYS:HE3	16:N3:413:VAL:O	1.71	0.90
11:I2:1040:HIS:HB3	16:N3:434:LEU:CD1	2.01	0.90
11:I3:1270:LYS:N	26:X1:529:TRP:N	2.20	0.90
11:I3:1275:SER:CA	26:X1:522:MET:HB3	2.02	0.90
21:S4:138:VAL:HG11	21:S4:170:THR:HG22	1.54	0.90
1:A3:1257:VAL:HG12	3:A6:620:GLY:H	1.22	0.90
1:A3:1271:ILE:HG21	3:A6:550:VAL:HA	1.53	0.90
1:A3:1321:MET:HE2	3:A6:126:ARG:HH12	1.36	0.90
2:A4:724:LEU:CD2	3:A6:496:THR:CA	1.81	0.90
2:A4:772:SER:HA	3:A6:489:LEU:CD1	2.02	0.90
2:A4:774:VAL:HA	3:A6:467:LEU:CD1	2.02	0.90
2:A4:909:LYS:HD2	6:D3:555:ARG:NH1	1.86	0.90
2:A4:911:TYR:HE2	6:D3:555:ARG:HH21	0.95	0.90
2:A4:946:LYS:HB2	4:B6:351:GLU:N	1.86	0.90
2:A4:949:PHE:CA	4:B6:348:PRO:HD3	2.00	0.90
3:A5:1405:LEU:H	28:Z2:918:PHE:H	0.94	0.90
3:A6:521:ASN:H	6:D3:639:LEU:HD21	1.35	0.90
8:F1:1091:SER:HG	17:O2:241:SER:CB	1.80	0.90
11:I1:833:PHE:CZ	17:O1:238:ALA:O	2.25	0.90
11:I1:956:ILE:HG22	20:R1:166:LEU:CB	1.84	0.90
11:I2:955:LYS:H	16:N3:403:VAL:HG23	0.75	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:981:VAL:HA	20:R3:147:LEU:CD2	1.86	0.90
11:I2:1031:ALA:H	20:R3:173:LEU:N	1.69	0.90
11:I2:1038:ILE:HD13	15:M3:620:VAL:HB	1.49	0.90
11:I3:1275:SER:CB	26:X1:508:LEU:HD11	2.02	0.90
21:S3:676:GLU:CB	21:S4:1146:ALA:CB	2.48	0.90
1:A1:1229:VAL:HB	2:A2:725:GLU:HB3	1.54	0.90
1:A3:1188:ASN:HB3	3:A6:645:PHE:CD1	2.06	0.90
1:A3:1248:ILE:CA	3:A6:587:VAL:HG13	2.02	0.90
1:A3:1271:ILE:CB	3:A6:553:ASP:HB2	2.01	0.90
2:A4:802:TYR:CD1	3:A6:397:LEU:CD2	2.53	0.90
2:A4:973:GLU:HA	6:D3:205:LEU:HB3	0.91	0.90
3:A5:175:GLU:OE1	5:C2:733:LEU:HD21	1.70	0.90
3:A5:1033:GLN:HE21	11:I5:70:GLU:HB3	0.75	0.90
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CA	2.50	0.90
11:I1:849:LEU:HD13	17:O1:247:TRP:CD2	2.06	0.90
11:I1:874:LEU:HD23	17:O1:252:VAL:CB	2.00	0.90
11:I1:956:ILE:HG22	20:R1:166:LEU:HB2	0.91	0.90
11:I1:1607:GLN:CG	11:I2:1739:GLU:H	1.85	0.90
11:I1:1672:VAL:HG22	11:I2:1611:PHE:CB	2.01	0.90
11:I2:911:PRO:CB	15:M3:584:GLN:HE21	1.58	0.90
11:I2:1107:SER:OG	16:N3:436:ALA:O	1.89	0.90
11:I3:1271:GLU:N	26:X1:529:TRP:N	2.18	0.90
11:I3:1278:ALA:O	26:X1:520:GLU:HG2	1.69	0.90
21:S1:654:LYS:O	21:S2:1154:GLY:O	1.88	0.90
21:S2:176:MET:CE	21:S2:212:LEU:HD11	2.02	0.90
21:S4:176:MET:CE	21:S4:212:LEU:HD11	2.02	0.90
1:A1:834:GLU:CB	6:D3:302:PRO:CB	2.50	0.90
2:A4:772:SER:CB	3:A6:477:PHE:CD1	2.38	0.90
2:A4:875:LEU:O	6:D3:564:ASN:CB	2.19	0.90
3:A5:159:SER:HB3	5:C2:742:ASP:O	1.72	0.90
3:A5:1365:VAL:HA	28:Z2:841:ALA:HB3	0.91	0.90
8:F1:1137:GLN:HG3	17:O2:248:SER:HG	1.34	0.90
11:I1:978:LYS:NZ	20:R1:154:ALA:C	2.15	0.90
11:I1:1032:THR:N	20:R1:176:ARG:O	1.90	0.90
11:I1:1677:LYS:HD2	11:I2:1635:HIS:HE1	1.28	0.90
11:I2:841:PHE:C	15:M3:591:ASP:HB2	1.92	0.90
11:I2:985:ARG:N	15:M3:613:ASP:HA	1.18	0.90
11:I2:990:GLU:C	17:O3:272:SER:HA	1.92	0.90
11:I2:1110:SER:CB	16:N3:438:LEU:N	2.32	0.90
1:A1:1399:ARG:CG	2:A2:884:ARG:CG	2.31	0.90
2:A2:826:ASN:CB	6:D1:633:LYS:CB	2.41	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1168:LEU:H	3:A6:594:LEU:CD2	1.84	0.90
1:A3:1195:PHE:CA	3:A6:678:LEU:HB3	2.01	0.90
1:A3:1199:GLN:CA	2:A4:729:SER:O	2.20	0.90
1:A3:1200:ARG:N	2:A4:729:SER:O	1.64	0.90
1:A3:1240:HIS:HD1	3:A6:118:SER:CB	1.70	0.90
1:A3:1280:GLN:OE1	3:A6:125:VAL:HB	1.71	0.90
2:A4:677:ALA:N	3:A6:98:LEU:O	1.79	0.90
2:A4:677:ALA:HB1	3:A6:98:LEU:CG	1.84	0.90
2:A4:826:ASN:HD21	6:D3:633:LYS:HB3	1.35	0.90
2:A4:880:ALA:HA	6:D3:558:LYS:HE3	1.53	0.90
2:A4:886:PHE:HZ	3:A6:176:LEU:HG	1.07	0.90
2:A4:909:LYS:CD	6:D3:555:ARG:NH1	2.30	0.90
2:A4:988:ARG:HD2	6:D3:500:LYS:CG	2.01	0.90
9:G1:262:SER:O	16:N2:411:GLN:CG	2.19	0.90
11:I1:931:VAL:O	15:M1:605:THR:N	2.04	0.90
11:I1:934:LEU:H	15:M1:602:MET:HA	1.32	0.90
11:I1:947:LEU:HG	16:N1:408:MET:CA	2.02	0.90
11:I1:980:ILE:O	15:M1:618:GLN:HA	1.72	0.90
11:I1:1052:LEU:CD1	17:O1:287:LEU:CD1	2.48	0.90
11:I1:1061:ASP:HA	17:O1:279:ILE:HD11	1.53	0.90
11:I1:1108:PRO:HB3	16:N1:443:GLU:CB	2.00	0.90
11:I1:1114:VAL:HG23	16:N1:435:ALA:HB3	1.46	0.90
21:S3:138:VAL:HG11	21:S3:170:THR:HG22	1.53	0.90
1:A1:868:GLN:O	6:D3:277:ASN:N	2.05	0.90
2:A2:876:ARG:NH1	6:D1:563:GLU:N	2.06	0.90
2:A2:908:LEU:C	6:D1:552:TYR:HE1	1.73	0.90
2:A2:968:SER:CA	6:D1:202:GLN:N	2.35	0.90
1:A3:1224:PRO:HB2	3:A6:548:LEU:HD12	0.92	0.90
2:A4:93:ASP:O	3:A6:361:ASP:HA	1.72	0.90
2:A4:556:PRO:HG2	3:A6:454:GLN:HB2	1.53	0.90
2:A4:610:THR:OG1	3:A6:506:SER:CB	2.12	0.90
2:A4:682:ARG:HD3	3:A6:106:ALA:C	1.92	0.90
2:A4:712:THR:OG1	3:A6:462:LEU:HG	1.72	0.90
2:A4:714:GLN:C	3:A6:492:SER:HB3	1.92	0.90
2:A4:855:THR:HG22	3:A6:169:TYR:N	1.86	0.90
3:A5:1395:LYS:HE2	28:Z2:872:TYR:CB	2.02	0.90
11:I1:881:ILE:C	17:O1:249:ARG:HD2	1.90	0.90
11:I1:882:LYS:CB	17:O1:245:GLU:CB	2.47	0.90
11:I1:883:ALA:HB3	17:O1:246:LEU:CA	2.01	0.90
11:I1:1065:SER:OG	16:N1:430:ARG:CG	2.20	0.90
11:I2:939:ASN:HB3	17:O3:265:ASN:ND2	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:952:LEU:CD2	15:M3:602:MET:CG	2.49	0.90
11:I2:961:ARG:NH2	16:N3:388:LYS:HB3	1.87	0.90
11:I3:1276:GLN:HE21	26:X1:535:ALA:CA	1.84	0.90
21:S3:679:ILE:HA	21:S4:1144:LEU:CD1	1.94	0.90
2:A2:223:THR:C	6:D1:709:ARG:NH2	2.24	0.90
2:A2:965:LYS:CE	6:D1:196:ILE:C	2.39	0.90
1:A3:1162:ASN:HB2	3:A6:649:GLY:H	1.33	0.90
1:A3:1311:ARG:HG2	3:A6:712:THR:HG22	1.53	0.90
2:A4:684:VAL:HG23	3:A6:395:MET:CG	2.00	0.90
2:A4:769:GLU:CA	3:A6:528:ILE:HG21	2.01	0.90
2:A4:860:GLU:CG	6:D3:606:LYS:HB3	2.01	0.90
2:A4:898:LEU:HD23	4:B6:344:ALA:CA	2.01	0.90
2:A4:954:ILE:CG1	4:B6:346:LEU:N	2.35	0.90
3:A5:1363:ASP:CA	28:Z2:875:LEU:CB	2.48	0.90
11:I1:934:LEU:HA	15:M1:602:MET:SD	2.10	0.90
11:I1:1013:GLU:O	16:N1:411:GLN:O	1.88	0.90
11:I1:1038:ILE:N	20:R1:169:GLY:CA	2.34	0.90
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD11	1.52	0.90
11:I1:1049:LEU:HB3	20:R1:146:LEU:CD1	2.02	0.90
17:O4:110:LEU:CD2	18:P4:321:ILE:HB	1.98	0.90
2:A2:858:ALA:O	6:D1:606:LYS:HE2	1.66	0.89
1:A3:1021:LEU:CD1	6:D3:816:VAL:C	2.28	0.89
1:A3:1226:LEU:HD23	3:A6:549:ALA:N	1.85	0.89
1:A3:1233:GLN:HA	3:A6:578:ILE:HG22	1.51	0.89
1:A3:1241:ARG:CB	3:A6:586:CYS:SG	2.60	0.89
2:A4:712:THR:O	3:A6:490:PHE:CE1	2.26	0.89
2:A4:781:ARG:NE	6:D3:633:LYS:HE2	1.87	0.89
2:A4:803:GLU:HG3	3:A6:382:SER:C	1.92	0.89
2:A4:875:LEU:CD1	6:D3:567:LEU:CD2	2.01	0.89
2:A4:892:SER:O	3:A6:155:TYR:CE2	2.25	0.89
3:A5:1026:PRO:HG3	11:I5:73:TYR:CG	2.07	0.89
3:A5:1367:THR:HG22	28:Z2:844:CYS:C	1.69	0.89
3:A6:444:ARG:CG	6:D3:733:ALA:CB	2.32	0.89
11:I1:895:ARG:NE	17:O1:233:THR:CG2	2.24	0.89
11:I1:931:VAL:CG2	15:M1:604:ASN:N	2.31	0.89
11:I1:1104:LEU:CB	16:N1:436:ALA:HB1	1.99	0.89
11:I1:1735:PHE:O	11:I2:1607:GLN:OE1	1.89	0.89
11:I2:1109:LEU:HD13	17:O3:290:TYR:CG	2.08	0.89
1:A1:831:ALA:O	6:D3:298:ASN:CG	2.11	0.89
2:A2:874:VAL:CG1	6:D1:611:LYS:CB	2.49	0.89
1:A3:1237:LEU:CB	3:A6:597:GLU:HG3	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:616:ALA:HB1	3:A6:109:ASP:CB	2.01	0.89
2:A4:692:VAL:HG12	3:A6:467:LEU:HD23	1.48	0.89
2:A4:806:PHE:HE2	3:A6:395:MET:HE1	0.90	0.89
6:D7:530:ARG:NH1	11:I3:182:VAL:N	2.19	0.89
11:I1:913:ALA:N	15:M1:584:GLN:CG	2.31	0.89
11:I2:925:LEU:CA	15:M3:597:LYS:HG3	1.50	0.89
11:I2:978:LYS:HZ2	20:R3:155:GLU:HB3	1.36	0.89
11:I2:1040:HIS:CB	15:M3:619:ILE:HG21	1.98	0.89
1:A1:1201:ARG:CD	2:A2:734:LEU:CB	2.50	0.89
1:A1:1222:ALA:CB	2:A2:615:LEU:HD13	2.02	0.89
2:A2:780:GLU:HB2	6:D1:677:GLN:CA	2.02	0.89
2:A2:987:LYS:CD	6:D1:555:ARG:NE	2.35	0.89
2:A2:1132:PRO:CD	3:A5:160:ILE:CG1	2.49	0.89
2:A2:1138:GLU:HG3	3:A5:562:LEU:HD11	1.52	0.89
2:A2:1144:ASP:C	3:A5:129:ASN:CG	2.31	0.89
1:A3:1201:ARG:HB2	2:A4:728:LYS:O	1.72	0.89
2:A4:680:LEU:O	3:A6:405:PHE:CE2	2.24	0.89
2:A4:776:MET:HA	3:A6:519:LEU:CD1	2.00	0.89
2:A4:779:ASP:O	3:A6:522:GLY:C	2.11	0.89
2:A4:897:ASN:CA	3:A6:165:PHE:HB3	2.00	0.89
2:A4:982:THR:H	6:D3:496:LEU:C	1.68	0.89
3:A5:186:ILE:HD12	5:C2:744:PHE:HB2	1.53	0.89
3:A5:186:ILE:HG21	5:C2:742:ASP:OD1	1.72	0.89
3:A5:1392:ARG:HG3	28:Z2:866:GLU:O	1.73	0.89
3:A6:132:ASP:CG	6:D3:607:PRO:N	2.10	0.89
8:F1:1137:GLN:N	17:O2:248:SER:OG	2.05	0.89
9:G1:262:SER:H	17:O2:256:TYR:HE1	1.19	0.89
11:I1:921:GLU:CB	15:M1:596:ILE:CD1	2.47	0.89
11:I1:930:LEU:HB3	15:M1:597:LYS:O	0.85	0.89
11:I1:957:SER:HB2	20:R1:168:LEU:CB	2.03	0.89
11:I1:1056:PRO:HB3	17:O1:278:GLU:CG	2.00	0.89
11:I2:900:ARG:HG3	17:O3:232:LYS:HZ2	1.29	0.89
11:I2:914:ASN:O	15:M3:585:LEU:O	1.91	0.89
11:I2:942:HIS:CA	17:O3:259:ASP:OD2	2.20	0.89
1:A1:832:ASN:OD1	6:D3:298:ASN:HA	1.11	0.89
1:A3:1204:TRP:CH2	3:A6:95:TYR:CD2	2.33	0.89
2:A4:577:ASP:CA	3:A6:453:SER:CB	2.41	0.89
2:A4:681:THR:HB	3:A6:431:PHE:CD1	2.07	0.89
2:A4:692:VAL:N	3:A6:316:ARG:HH22	1.69	0.89
2:A4:713:ILE:CD1	3:A6:462:LEU:HD12	2.02	0.89
2:A4:951:GLU:HB2	4:B6:347:LEU:HG	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:160:ILE:HD11	5:C2:743:LEU:CD1	1.88	0.89
3:A5:1395:LYS:HA	28:Z2:873:LEU:C	1.92	0.89
11:I1:900:ARG:HG3	17:O1:232:LYS:HZ2	1.33	0.89
11:I1:934:LEU:O	15:M1:606:LEU:CB	2.21	0.89
11:I1:1048:GLU:CG	17:O1:284:LYS:O	2.20	0.89
11:I2:951:LYS:CD	16:N3:400:LEU:O	2.20	0.89
11:I2:997:SER:HB2	17:O3:270:THR:HG22	1.54	0.89
11:I2:1609:GLY:HA3	12:J1:295:TYR:CE1	2.08	0.89
17:O4:107:THR:HA	18:P4:318:PRO:CG	2.02	0.89
21:S1:660:LEU:N	21:S2:1102:VAL:HG21	1.88	0.89
21:S1:1016:LYS:HE2	21:S1:1039:GLU:HG3	1.53	0.89
1:A1:870:HIS:N	6:D3:280:GLN:HB2	1.86	0.89
1:A1:1204:TRP:CH2	2:A2:676:LEU:CD1	2.54	0.89
1:A1:1229:VAL:CG2	2:A2:725:GLU:HG2	1.97	0.89
1:A1:1332:ARG:O	6:D1:637:LYS:HD2	1.70	0.89
2:A2:1143:LEU:CG	3:A5:130:ILE:O	2.13	0.89
2:A4:750:ASN:O	3:A6:93:ASP:HB3	1.72	0.89
2:A4:854:VAL:HG13	3:A6:173:ASN:C	1.91	0.89
2:A4:908:LEU:CG	6:D3:601:PHE:O	2.19	0.89
2:A4:975:GLU:CA	6:D3:496:LEU:HA	2.02	0.89
2:A4:978:ASP:CB	6:D3:476:VAL:HG23	1.91	0.89
3:A5:221:SER:N	5:C2:738:ASP:CB	2.36	0.89
3:A5:1355:VAL:O	28:Z2:878:HIS:CA	2.19	0.89
11:I1:950:LEU:HB2	16:N1:407:ALA:H	1.27	0.89
11:I1:1055:GLU:HG2	17:O1:280:GLU:HB2	1.40	0.89
11:I1:1104:LEU:HD21	16:N1:433:GLU:CG	1.94	0.89
11:I2:884:LEU:HB2	16:N3:400:LEU:HD12	0.91	0.89
11:I2:980:ILE:CD1	20:R3:147:LEU:HA	2.02	0.89
11:I2:989:GLY:CA	15:M3:614:ASP:CB	2.50	0.89
11:I2:1110:SER:OG	16:N3:438:LEU:HG	0.71	0.89
17:O3:102:LYS:CD	18:P3:322:LYS:HZ2	1.85	0.89
21:S1:176:MET:CE	21:S1:212:LEU:HD11	2.02	0.89
21:S1:686:ALA:HB2	21:S2:1152:VAL:HA	1.53	0.89
21:S2:138:VAL:HG11	21:S2:170:THR:HG22	1.53	0.89
1:A1:1201:ARG:HD2	2:A2:734:LEU:HB3	1.50	0.89
1:A1:1332:ARG:NH2	6:D1:681:ALA:HB1	1.86	0.89
2:A2:873:PRO:O	6:D1:563:GLU:OE1	1.89	0.89
2:A2:1151:THR:CG2	5:C2:734:VAL:HB	2.01	0.89
1:A3:1165:ASP:HB2	3:A6:598:VAL:CG2	2.02	0.89
2:A4:643:ALA:N	3:A6:501:VAL:CG1	2.36	0.89
2:A4:680:LEU:HD21	3:A6:470:ARG:HH21	1.26	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:908:LEU:O	6:D3:555:ARG:HB2	1.71	0.89
3:A5:993:ASN:CA	11:I5:57:GLU:HG2	2.02	0.89
11:I1:917:TYR:CD1	15:M1:586:ASP:O	2.25	0.89
11:I1:1051:LYS:H	17:O1:287:LEU:HA	1.36	0.89
11:I1:1673:VAL:HG11	11:I2:1610:VAL:CG2	2.01	0.89
11:I2:890:TYR:CD1	17:O3:241:SER:N	2.31	0.89
11:I2:956:ILE:HG21	15:M3:600:ASN:HA	1.55	0.89
11:I2:962:ILE:CG2	20:R3:166:LEU:CG	2.49	0.89
11:I2:978:LYS:HZ1	20:R3:155:GLU:H	1.19	0.89
11:I2:1048:GLU:CB	17:O3:284:LYS:O	2.21	0.89
11:I2:1059:PRO:CA	17:O3:273:ASP:O	2.21	0.89
11:I2:1109:LEU:CD2	17:O3:290:TYR:CD2	2.56	0.89
2:A2:879:LEU:H	6:D1:567:LEU:CD1	1.86	0.89
2:A2:1118:GLN:O	3:A5:132:ASP:OD2	1.89	0.89
1:A3:1260:ALA:HB2	3:A6:719:ARG:HH21	0.75	0.89
2:A4:91:LEU:HD23	3:A6:430:GLN:HE21	1.34	0.89
2:A4:574:ARG:HH21	3:A6:455:LEU:HA	1.35	0.89
2:A4:642:ARG:HD2	3:A6:604:GLN:C	1.92	0.89
2:A4:706:PRO:CD	3:A6:482:LYS:HG2	2.01	0.89
2:A4:726:ALA:HA	3:A6:575:LEU:CB	2.01	0.89
2:A4:759:ALA:HB1	3:A6:388:GLU:HB2	1.51	0.89
2:A4:870:HIS:CE1	6:D3:566:PHE:HD1	1.91	0.89
8:F1:1265:GLN:C	17:O2:265:ASN:CB	2.40	0.89
11:I1:841:PHE:CG	17:O1:243:LEU:CD1	2.55	0.89
11:I1:922:ASP:N	15:M1:592:LEU:CB	2.34	0.89
11:I1:990:GLU:HG3	15:M1:614:ASP:HB2	1.51	0.89
11:I1:1045:PHE:HZ	16:N1:431:VAL:O	1.46	0.89
11:I2:1043:LEU:HD11	16:N3:433:GLU:CB	2.01	0.89
17:O3:155:VAL:CB	18:P3:321:ILE:HG23	2.00	0.89
2:A2:872:ALA:CB	6:D1:565:MET:CE	2.51	0.89
2:A2:1148:ARG:HH22	3:A5:169:TYR:HA	1.37	0.89
1:A3:1084:ARG:HA	6:D3:794:THR:HA	1.55	0.89
1:A3:1188:ASN:HB3	3:A6:645:PHE:CB	2.01	0.89
1:A3:1274:ASP:CB	3:A6:556:PRO:CA	2.48	0.89
2:A4:793:SER:CB	3:A6:146:LYS:CE	2.49	0.89
2:A4:855:THR:CG2	3:A6:167:TRP:C	2.40	0.89
2:A4:891:GLY:C	3:A6:232:LEU:H	1.76	0.89
2:A4:986:THR:HG21	6:D3:504:LYS:HG2	0.89	0.89
3:A5:234:LEU:N	5:C2:738:ASP:N	2.21	0.89
11:I1:846:ILE:HD13	15:M1:594:LYS:HB2	0.91	0.89
11:I1:873:ILE:C	17:O1:251:ILE:HG22	1.93	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:920:PHE:HE1	17:O1:247:TRP:HE1	1.00	0.89
11:I1:922:ASP:N	15:M1:592:LEU:HB3	1.88	0.89
11:I1:941:GLY:C	17:O1:260:LEU:HA	1.93	0.89
11:I1:1104:LEU:HB3	16:N1:436:ALA:HB3	0.89	0.89
11:I2:840:LEU:HD22	17:O3:247:TRP:CB	2.03	0.89
11:I2:896:PRO:CD	17:O3:233:THR:O	2.20	0.89
11:I2:1113:LEU:CD2	17:O3:282:LYS:NZ	2.36	0.89
21:S3:176:MET:HE2	21:S3:212:LEU:HD11	1.52	0.89
2:A2:980:ARG:NH2	6:D1:503:LEU:HB3	1.86	0.89
1:A3:1084:ARG:C	6:D3:797:GLY:HA3	1.92	0.89
1:A3:1200:ARG:HH12	3:A6:608:VAL:HB	1.33	0.89
2:A4:84:VAL:CG1	3:A6:392:LEU:HB2	1.99	0.89
2:A4:682:ARG:HG2	3:A6:432:VAL:H	1.38	0.89
2:A4:693:VAL:H	3:A6:316:ARG:NH1	1.58	0.89
2:A4:720:LEU:CD2	3:A6:494:PRO:HA	1.79	0.89
2:A4:896:ALA:C	3:A6:178:GLY:CA	2.38	0.89
3:A5:177:ILE:CD1	5:C2:736:ASN:O	2.20	0.89
3:A6:487:ASP:OD1	6:D3:675:ARG:O	1.89	0.89
3:A6:518:GLU:C	6:D3:686:ASP:CG	2.30	0.89
8:F1:1262:HIS:CD2	17:O2:259:ASP:HB2	2.08	0.89
9:G1:255:LEU:O	15:M2:602:MET:CB	2.20	0.89
11:I1:1027:ALA:HB3	20:R1:172:ASP:CG	1.89	0.89
11:I1:1036:PRO:C	15:M1:623:LEU:C	2.31	0.89
11:I1:1041:GLN:CB	15:M1:620:VAL:CG2	2.03	0.89
11:I1:1042:LEU:C	15:M1:616:LEU:HD21	1.93	0.89
11:I2:895:ARG:CD	17:O3:234:LEU:CB	2.26	0.89
11:I2:976:ARG:HB3	20:R3:149:ARG:H	0.76	0.89
11:I2:1109:LEU:HD12	17:O3:286:ILE:HG21	1.54	0.89
17:O3:151:LEU:HD23	18:P3:325:ILE:HG12	1.14	0.89
28:Z2:537:THR:HG22	28:Z2:743:ASN:HA	1.54	0.89
2:A2:1122:LEU:HD12	3:A5:135:PHE:HD2	1.28	0.89
1:A3:1091:VAL:HB	6:D3:803:THR:O	1.73	0.89
1:A3:1251:VAL:CG1	3:A6:634:ASP:OD2	2.20	0.89
2:A4:983:LEU:HB2	6:D3:528:PHE:HZ	1.11	0.89
3:A5:189:VAL:O	5:C2:748:ASN:ND2	2.06	0.89
3:A5:1011:TYR:OH	11:I5:54:LYS:HG2	1.70	0.89
3:A5:1098:ARG:CZ	11:I5:29:GLN:CB	2.45	0.89
3:A6:446:LEU:C	6:D3:730:ARG:NH2	0.83	0.89
11:I1:879:VAL:HG12	17:O1:244:GLU:O	1.68	0.89
11:I1:896:PRO:HD3	17:O1:233:THR:HA	1.55	0.89
11:I1:921:GLU:HB2	16:N1:392:THR:HB	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:890:TYR:N	17:O3:242:ARG:CG	2.31	0.89
11:I2:1020:ALA:HB2	16:N3:409:ALA:N	1.88	0.89
11:I2:1040:HIS:HE2	16:N3:437:VAL:CG1	1.83	0.89
21:S3:678:GLU:CB	21:S4:1141:GLU:HA	2.02	0.89
1:A3:1189:LEU:HD13	3:A6:579:PHE:CE1	1.97	0.88
1:A3:1226:LEU:HD21	3:A6:546:ASN:O	1.71	0.88
1:A3:1265:ASN:CG	3:A6:683:LEU:CD1	2.42	0.88
2:A4:642:ARG:O	3:A6:501:VAL:HG12	1.63	0.88
2:A4:900:THR:O	3:A6:137:HIS:CE1	2.25	0.88
11:I1:834:SER:H	17:O1:237:PRO:HB3	1.38	0.88
11:I1:984:GLU:CG	15:M1:618:GLN:H	1.86	0.88
11:I1:1677:LYS:HE2	11:I2:1543:LEU:CD1	2.03	0.88
11:I2:900:ARG:HB2	17:O3:232:LYS:CD	1.89	0.88
2:A2:1155:ASN:CG	3:A5:175:GLU:OE2	2.10	0.88
2:A2:1160:GLN:HG3	3:A5:165:PHE:HB3	1.52	0.88
1:A3:1229:VAL:CG1	3:A6:574:ARG:HA	2.03	0.88
1:A3:1233:GLN:CG	3:A6:578:ILE:HD12	2.02	0.88
1:A3:1311:ARG:CD	3:A6:715:GLU:CD	2.41	0.88
2:A4:670:SER:N	3:A6:542:LEU:CG	2.35	0.88
2:A4:868:GLN:CB	6:D3:570:VAL:HG21	2.04	0.88
2:A4:901:ALA:HB2	3:A6:176:LEU:HB2	1.55	0.88
11:I1:931:VAL:HG22	15:M1:604:ASN:CG	1.93	0.88
11:I1:954:GLU:HB2	16:N1:402:GLY:C	1.94	0.88
11:I1:1051:LYS:N	17:O1:287:LEU:CA	2.22	0.88
11:I2:853:ILE:HG12	17:O3:254:ARG:HD3	0.90	0.88
21:S4:1016:LYS:HE2	21:S4:1039:GLU:HG3	1.53	0.88
2:A2:823:VAL:C	2:A2:856:PHE:HE1	1.76	0.88
2:A2:1163:TYR:OH	3:A5:136:GLU:HB3	1.73	0.88
1:A3:1090:SER:OG	6:D3:804:SER:HB2	1.72	0.88
1:A3:1257:VAL:HG22	3:A6:719:ARG:HH12	1.38	0.88
2:A4:75:LEU:HG	3:A6:321:ASP:OD1	1.73	0.88
2:A4:500:LYS:HE2	3:A6:104:PRO:O	1.73	0.88
2:A4:684:VAL:CG2	3:A6:405:PHE:CE2	2.51	0.88
2:A4:692:VAL:C	3:A6:466:ALA:O	2.12	0.88
2:A4:761:GLN:CB	3:A6:535:PHE:CE1	2.56	0.88
2:A4:886:PHE:O	3:A6:175:GLU:HB3	1.72	0.88
3:A6:446:LEU:CD1	6:D3:721:PRO:CB	2.45	0.88
3:A6:1399:ARG:HH21	28:Z4:968:ARG:CA	1.85	0.88
9:G1:256:GLN:H	17:O2:257:ALA:HB2	1.35	0.88
11:I1:885:GLU:O	16:N1:397:GLU:OE2	1.89	0.88
11:I1:924:ILE:CB	15:M1:592:LEU:O	2.17	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1110:SER:HB3	16:N1:434:LEU:O	1.71	0.88
11:I2:828:VAL:C	17:O3:237:PRO:HG2	1.93	0.88
11:I2:1018:LYS:H	16:N3:413:VAL:N	1.70	0.88
11:I2:1036:PRO:HB2	15:M3:619:ILE:O	1.73	0.88
11:I2:1051:LYS:HZ3	17:O3:285:LYS:CE	1.86	0.88
11:I4:1276:GLN:OE1	26:X3:516:ASN:O	1.92	0.88
17:O3:155:VAL:CB	18:P3:321:ILE:CG2	2.50	0.88
21:S1:138:VAL:HG11	21:S1:170:THR:HG22	1.54	0.88
2:A2:980:ARG:CZ	6:D1:503:LEU:HB2	2.02	0.88
2:A2:1148:ARG:NH2	3:A5:169:TYR:O	2.06	0.88
2:A2:1151:THR:O	3:A5:175:GLU:CB	2.21	0.88
1:A3:1083:SER:CB	6:D3:798:MET:HE2	1.37	0.88
1:A3:1241:ARG:NH1	3:A6:593:ALA:HB1	1.79	0.88
2:A4:670:SER:H	3:A6:542:LEU:CD1	1.86	0.88
2:A4:682:ARG:CZ	3:A6:105:GLY:CA	2.51	0.88
2:A4:761:GLN:NE2	3:A6:535:PHE:HZ	1.72	0.88
2:A4:761:GLN:HG3	3:A6:545:GLY:CA	2.04	0.88
2:A4:893:LEU:HD11	3:A6:175:GLU:HG3	1.01	0.88
2:A4:946:LYS:HB2	4:B6:350:GLU:HB2	1.54	0.88
2:A4:980:ARG:CA	6:D3:473:GLU:OE2	2.19	0.88
2:A4:987:LYS:NZ	6:D3:556:ASP:CG	2.20	0.88
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CB	2.02	0.88
3:A5:1395:LYS:CE	28:Z2:868:GLN:O	2.12	0.88
3:A6:1385:GLU:OE1	28:Z4:907:LEU:N	2.05	0.88
8:F1:1262:HIS:CE1	17:O2:255:GLY:O	2.24	0.88
11:I1:884:LEU:CD1	16:N1:400:LEU:HD11	1.98	0.88
11:I1:1103:LEU:HD13	20:R1:175:GLN:HG3	0.89	0.88
11:I5:536:GLU:N	25:W2:8:HIS:N	2.21	0.88
28:Z1:537:THR:HG22	28:Z1:743:ASN:HA	1.54	0.88
2:A2:874:VAL:HG11	6:D1:611:LYS:HB3	1.55	0.88
1:A3:1392:ARG:H	3:A6:225:THR:CB	1.86	0.88
2:A4:80:LYS:CD	3:A6:387:THR:CG2	2.09	0.88
2:A4:868:GLN:O	6:D3:598:ILE:CB	2.21	0.88
3:A5:160:ILE:CD1	5:C2:743:LEU:CG	2.50	0.88
3:A5:221:SER:N	5:C2:738:ASP:CG	2.26	0.88
3:A5:1363:ASP:OD2	28:Z2:872:TYR:HA	1.39	0.88
3:A6:446:LEU:HD11	6:D3:721:PRO:HB2	1.51	0.88
11:I1:874:LEU:HD21	17:O1:252:VAL:CG1	1.98	0.88
11:I1:976:ARG:NH2	15:M1:622:VAL:CG2	2.37	0.88
11:I1:1667:GLN:CD	11:I2:1665:LEU:HB2	1.94	0.88
11:I2:928:LEU:CD1	20:R3:151:LYS:CE	2.51	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:997:SER:HG	16:N3:427:VAL:HG23	1.32	0.88
11:I2:1029:LEU:CA	20:R3:173:LEU:HB3	2.02	0.88
11:I2:1030:ARG:O	20:R3:173:LEU:O	1.91	0.88
11:I3:1277:LEU:CD1	26:X1:511:TYR:HE2	1.84	0.88
17:O3:162:LYS:CB	18:P3:315:GLU:OE1	2.22	0.88
1:A3:1084:ARG:CA	6:D3:794:THR:HA	2.03	0.88
1:A3:1194:HIS:HE2	3:A6:679:TYR:C	1.72	0.88
2:A4:642:ARG:HE	3:A6:501:VAL:HG21	0.76	0.88
2:A4:672:ARG:HG2	3:A6:96:PRO:HG2	0.93	0.88
2:A4:735:ALA:HB2	3:A6:682:ARG:NE	1.88	0.88
2:A4:761:GLN:CD	3:A6:545:GLY:C	2.32	0.88
2:A4:985:ALA:CA	6:D3:500:LYS:N	2.31	0.88
3:A6:132:ASP:HB3	6:D3:606:LYS:H	1.36	0.88
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD2	1.38	0.88
11:I1:882:LYS:HB3	17:O1:245:GLU:HB3	0.89	0.88
11:I1:920:PHE:HE1	17:O1:247:TRP:CD1	1.88	0.88
11:I1:1668:HIS:CB	11:I2:1668:HIS:HB2	2.03	0.88
11:I2:955:LYS:NZ	17:O3:249:ARG:NH2	2.20	0.88
11:I2:966:TRP:CA	20:R3:153:GLN:HB3	2.04	0.88
11:I2:1046:HIS:O	17:O3:284:LYS:HG3	1.73	0.88
11:I2:1109:LEU:HB2	17:O3:290:TYR:CZ	2.06	0.88
21:S1:668:ILE:HA	21:S2:1146:ALA:HB1	0.88	0.88
2:A2:876:ARG:HD2	6:D1:558:LYS:CA	2.03	0.88
2:A2:1054:SER:O	6:D2:762:ARG:HD3	1.71	0.88
1:A3:1226:LEU:HB3	3:A6:551:GLN:N	1.88	0.88
1:A3:1246:SER:C	3:A6:636:ASN:ND2	2.27	0.88
3:A5:172:PRO:CG	5:C2:730:HIS:CG	2.57	0.88
3:A5:1004:HIS:NE2	11:I5:58:ALA:O	2.06	0.88
3:A5:1369:ILE:HG23	28:Z2:831:LEU:N	1.84	0.88
11:I1:797:LEU:CD1	17:O1:245:GLU:N	2.36	0.88
11:I2:894:VAL:HB	17:O3:239:GLN:CA	2.03	0.88
11:I2:958:THR:CB	16:N3:399:HIS:CD2	2.55	0.88
11:I2:1030:ARG:N	20:R3:173:LEU:N	2.14	0.88
11:I2:1054:ILE:C	17:O3:281:ALA:CB	2.40	0.88
28:Z3:537:THR:HG22	28:Z3:743:ASN:HA	1.54	0.88
1:A1:832:ASN:OD1	6:D3:298:ASN:CB	2.21	0.88
1:A1:1052:THR:HG22	6:D1:812:VAL:CG1	2.03	0.88
2:A2:1132:PRO:CD	3:A5:160:ILE:HG13	2.04	0.88
1:A3:1124:ARG:N	3:A6:599:ARG:NE	2.22	0.88
1:A3:1194:HIS:CE1	3:A6:552:PHE:HE2	1.81	0.88
1:A3:1233:GLN:CA	3:A6:578:ILE:HG22	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:81:ALA:HB2	3:A6:388:GLU:CB	1.95	0.88
2:A4:579:PHE:CZ	3:A6:507:ALA:HB1	2.08	0.88
2:A4:711:VAL:HA	3:A6:490:PHE:CA	2.03	0.88
2:A4:917:LEU:HD11	3:A6:175:GLU:HB2	1.56	0.88
2:A4:918:CYS:SG	4:B6:342:ARG:CD	2.61	0.88
2:A4:977:VAL:CA	6:D3:492:VAL:CG1	2.43	0.88
3:A5:160:ILE:HD13	5:C2:743:LEU:HD11	1.53	0.88
3:A5:233:THR:CA	5:C2:738:ASP:H	1.87	0.88
3:A5:994:VAL:N	11:I5:57:GLU:CG	2.28	0.88
3:A5:1026:PRO:C	11:I5:67:LYS:C	2.32	0.88
3:A6:520:GLU:HG3	6:D3:681:ALA:HB2	0.95	0.88
3:A6:1410:ALA:H	26:X4:686:ASP:H	0.91	0.88
11:I1:797:LEU:CD2	17:O1:241:SER:OG	2.22	0.88
11:I1:841:PHE:O	15:M1:588:MET:HA	1.74	0.88
11:I1:884:LEU:CB	17:O1:246:LEU:HD21	2.02	0.88
11:I1:983:LEU:H	15:M1:621:ARG:CZ	1.82	0.88
11:I2:948:ALA:H	17:O3:256:TYR:HD2	0.92	0.88
11:I2:951:LYS:HE2	16:N3:404:GLU:CB	2.04	0.88
17:O3:147:ALA:HB1	18:P3:328:PRO:HG2	1.54	0.88
2:A2:965:LYS:HE3	6:D1:196:ILE:C	1.94	0.88
1:A3:1270:SER:HB3	3:A6:709:LYS:HZ1	1.34	0.88
2:A4:718:GLU:HG2	3:A6:492:SER:CA	2.03	0.88
2:A4:724:LEU:HD22	3:A6:95:TYR:OH	1.31	0.88
3:A5:1391:ARG:CB	28:Z2:871:HIS:N	2.29	0.88
3:A6:446:LEU:HD12	6:D3:722:LEU:N	1.89	0.88
8:F1:1264:ARG:HB3	17:O2:263:GLN:CA	2.01	0.88
9:G1:263:MET:CB	17:O2:260:LEU:HD22	2.03	0.88
11:I1:928:LEU:HG	20:R1:155:GLU:HG3	1.56	0.88
11:I1:1029:LEU:N	20:R1:171:ALA:O	1.99	0.88
11:I1:1738:TYR:N	11:I2:1607:GLN:OE1	2.06	0.88
11:I2:850:ILE:HG22	15:M3:598:GLU:CD	1.93	0.88
11:I2:948:ALA:HA	17:O3:253:LEU:CD2	2.04	0.88
11:I2:962:ILE:HG22	20:R3:166:LEU:HG	1.51	0.88
11:I2:983:LEU:C	15:M3:612:PRO:C	2.32	0.88
11:I2:1048:GLU:HB2	17:O3:284:LYS:HB3	1.54	0.88
21:S3:684:THR:C	21:S4:1150:TYR:H	1.66	0.88
1:A1:870:HIS:CB	6:D3:279:HIS:CG	2.43	0.88
2:A2:986:THR:OG1	6:D1:497:PHE:HE1	1.21	0.88
1:A3:1017:THR:CB	6:D3:819:ASN:HB3	2.03	0.88
1:A3:1186:TRP:CZ3	3:A6:637:THR:CG2	2.54	0.88
1:A3:1237:LEU:HB2	3:A6:582:ALA:CB	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:CB	3:A6:550:VAL:CG1	2.34	0.88
1:A3:1282:PHE:HB2	3:A6:625:LEU:C	1.93	0.88
2:A4:227:SER:HB2	6:D3:712:ASP:N	1.75	0.88
2:A4:714:GLN:OE1	3:A6:489:LEU:C	2.11	0.88
2:A4:779:ASP:OD1	3:A6:486:GLN:CA	2.22	0.88
2:A4:854:VAL:HG22	3:A6:172:PRO:C	1.94	0.88
2:A4:879:LEU:H	6:D3:567:LEU:HD12	0.85	0.88
2:A4:909:LYS:O	6:D3:555:ARG:HG3	1.02	0.88
3:A5:160:ILE:HD12	5:C2:743:LEU:CG	2.03	0.88
3:A5:1093:THR:HG23	11:I5:37:GLU:OE2	0.97	0.88
3:A6:1399:ARG:NH2	28:Z4:968:ARG:CB	2.36	0.88
11:I1:873:ILE:C	17:O1:251:ILE:CG2	2.42	0.88
11:I1:873:ILE:HG21	17:O1:254:ARG:HG2	1.53	0.88
11:I1:916:ALA:C	16:N1:389:PHE:HZ	1.69	0.88
11:I1:951:LYS:O	16:N1:400:LEU:O	1.92	0.88
11:I1:991:THR:HG23	15:M1:609:GLY:N	1.87	0.88
11:I1:1104:LEU:C	16:N1:436:ALA:CB	2.41	0.88
11:I1:1546:TRP:CB	12:J2:300:ILE:HD13	1.99	0.88
11:I2:946:THR:N	17:O3:260:LEU:N	2.22	0.88
21:S3:176:MET:CE	21:S3:212:LEU:HD11	2.02	0.88
2:A2:904:GLN:HB3	6:D1:603:SER:N	1.87	0.87
2:A2:969:ASP:HA	6:D1:196:ILE:H	1.33	0.87
1:A3:1202:GLU:HB3	3:A6:91:LEU:HB3	1.55	0.87
1:A3:1332:ARG:CG	6:D3:636:ASP:CB	2.44	0.87
2:A4:543:GLY:O	3:A6:362:PHE:C	2.13	0.87
2:A4:635:ARG:CZ	3:A6:603:ASN:HB2	2.03	0.87
2:A4:757:LEU:HB2	3:A6:543:GLY:O	1.74	0.87
2:A4:760:LEU:HD21	3:A6:98:LEU:N	1.89	0.87
2:A4:801:THR:OG1	3:A6:381:LEU:CG	2.22	0.87
2:A4:870:HIS:ND1	6:D3:566:PHE:HD1	1.68	0.87
3:A5:1363:ASP:HB2	28:Z2:875:LEU:CB	2.02	0.87
3:A5:1395:LYS:HA	28:Z2:873:LEU:CA	2.04	0.87
3:A5:1399:ARG:HG2	28:Z2:912:ASP:CB	2.04	0.87
3:A6:842:ARG:NE	8:F2:776:HIS:CE1	2.42	0.87
5:C3:732:LYS:HZ2	11:I2:1225:LYS:CD	1.84	0.87
11:I1:1029:LEU:HD11	16:N1:433:GLU:OE1	1.73	0.87
11:I2:899:LEU:HD12	17:O3:233:THR:N	1.88	0.87
21:S3:1016:LYS:HE2	21:S3:1039:GLU:HG3	1.53	0.87
2:A2:976:LEU:O	6:D1:496:LEU:N	2.04	0.87
1:A3:1200:ARG:HG2	3:A6:609:GLU:HG3	1.56	0.87
1:A3:1202:GLU:HG2	3:A6:91:LEU:CA	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:CB	3:A6:550:VAL:HA	2.03	0.87
1:A3:1332:ARG:NE	6:D3:636:ASP:HB3	1.88	0.87
2:A4:574:ARG:HH11	3:A6:454:GLN:N	1.70	0.87
3:A5:233:THR:OG1	5:C2:738:ASP:OD2	1.91	0.87
9:G2:263:MET:CE	17:O4:263:GLN:OE1	2.21	0.87
11:I1:1021:ILE:CG2	16:N1:406:HIS:CE1	2.54	0.87
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG2	1.53	0.87
11:I1:1667:GLN:O	11:I2:1665:LEU:CD2	2.21	0.87
11:I2:890:TYR:CD1	17:O3:238:ALA:C	2.39	0.87
11:I2:898:VAL:HG21	17:O3:236:ASP:C	1.95	0.87
11:I2:962:ILE:CG2	20:R3:166:LEU:CB	1.85	0.87
11:I2:1067:PHE:HD1	16:N3:430:ARG:C	1.76	0.87
11:I2:1109:LEU:N	17:O3:290:TYR:OH	2.05	0.87
11:I3:1277:LEU:HB2	26:X1:522:MET:N	1.88	0.87
17:O3:101:ASN:OD1	18:P3:322:LYS:CG	2.22	0.87
1:A1:1102:GLN:OE1	11:I1:1413:GLN:O	1.91	0.87
2:A2:909:LYS:O	6:D1:555:ARG:CG	2.22	0.87
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG21	1.42	0.87
1:A3:1120:ASP:CB	3:A6:596:ARG:N	2.18	0.87
2:A4:235:TYR:CE1	4:B4:347:LEU:HD12	2.09	0.87
2:A4:614:ALA:HB2	3:A6:507:ALA:HB1	1.54	0.87
2:A4:648:TYR:CG	3:A6:503:GLN:CG	2.56	0.87
2:A4:720:LEU:CB	3:A6:512:GLU:HG2	2.03	0.87
2:A4:781:ARG:HH11	6:D3:673:ARG:HH12	1.19	0.87
2:A4:820:LYS:HB3	3:A6:148:GLY:H	1.37	0.87
2:A4:824:ASN:O	3:A6:134:VAL:O	1.90	0.87
2:A4:867:GLU:CG	6:D3:605:THR:CB	2.53	0.87
2:A4:954:ILE:H	4:B6:345:LYS:HA	1.34	0.87
2:A4:972:GLY:C	6:D3:205:LEU:H	1.62	0.87
3:A6:133:LYS:HA	6:D3:604:ASP:CA	1.84	0.87
3:A6:1398:LYS:HD3	28:Z4:921:THR:H	1.38	0.87
11:I1:846:ILE:HD12	15:M1:594:LYS:CG	2.04	0.87
11:I1:874:LEU:HD23	17:O1:252:VAL:HG13	1.56	0.87
11:I1:923:GLY:C	15:M1:590:LYS:O	2.12	0.87
11:I1:1055:GLU:CG	17:O1:280:GLU:CB	2.44	0.87
11:I2:978:LYS:NZ	20:R3:152:LYS:O	2.07	0.87
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD2	2.04	0.87
11:I2:1186:PRO:CG	17:O4:221:ASP:OD1	2.14	0.87
18:P2:319:VAL:HG23	18:P3:278:ASN:ND2	1.87	0.87
21:S1:176:MET:HE3	21:S1:232:LEU:HD13	1.56	0.87
2:A2:235:TYR:CE1	4:B2:347:LEU:HD12	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:970:PHE:O	6:D1:202:GLN:HG2	1.75	0.87
2:A2:974:PRO:HD3	6:D1:205:LEU:HG	1.57	0.87
1:A3:1228:TYR:CD1	3:A6:551:GLN:HB3	2.09	0.87
1:A3:1233:GLN:N	3:A6:578:ILE:HB	1.88	0.87
2:A4:200:VAL:CG2	4:B4:351:GLU:O	2.22	0.87
2:A4:551:GLN:NE2	3:A6:106:ALA:O	2.07	0.87
2:A4:642:ARG:CG	3:A6:501:VAL:HG11	2.00	0.87
2:A4:705:ILE:HG23	3:A6:480:VAL:O	1.72	0.87
2:A4:726:ALA:O	3:A6:575:LEU:HD22	1.75	0.87
2:A4:804:GLN:OE1	3:A6:317:GLY:CA	2.21	0.87
2:A4:868:GLN:OE1	6:D3:570:VAL:CG1	2.23	0.87
2:A4:879:LEU:CB	6:D3:564:ASN:HB2	2.04	0.87
2:A4:892:SER:O	3:A6:232:LEU:HB3	1.74	0.87
2:A4:897:ASN:HA	3:A6:165:PHE:CG	2.08	0.87
2:A4:942:ASN:CB	4:B6:355:PRO:O	2.22	0.87
2:A4:1098:ARG:HH21	6:D4:709:ARG:HH22	0.87	0.87
3:A5:172:PRO:HD3	5:C2:730:HIS:CE1	2.08	0.87
3:A5:1365:VAL:HG22	28:Z2:838:GLN:CA	2.02	0.87
3:A6:446:LEU:HD23	6:D3:730:ARG:CG	2.03	0.87
9:G2:256:GLN:NE2	17:O4:263:GLN:N	2.22	0.87
11:I1:931:VAL:C	15:M1:604:ASN:HB2	1.94	0.87
11:I1:990:GLU:HB3	17:O1:272:SER:HA	1.57	0.87
11:I1:1066:LEU:CA	16:N1:430:ARG:CG	2.47	0.87
11:I2:899:LEU:CD1	17:O3:234:LEU:N	2.36	0.87
11:I2:917:TYR:O	15:M3:588:MET:CB	2.21	0.87
11:I2:918:SER:OG	16:N3:385:MET:O	1.92	0.87
15:M3:483:LYS:HZ1	16:N4:327:LYS:HE3	1.35	0.87
2:A2:873:PRO:CD	6:D1:568:ARG:NE	2.21	0.87
1:A3:1225:PRO:N	3:A6:548:LEU:CD1	2.35	0.87
2:A4:85:VAL:HG12	3:A6:394:LEU:C	1.94	0.87
2:A4:91:LEU:HD13	3:A6:104:PRO:HG3	1.55	0.87
2:A4:703:SER:N	3:A6:399:ASP:CB	2.37	0.87
2:A4:706:PRO:HB2	3:A6:461:ALA:HA	1.56	0.87
2:A4:753:GLU:O	3:A6:544:PHE:N	2.08	0.87
2:A4:780:GLU:HG3	3:A6:564:ASN:H	1.39	0.87
2:A4:825:ARG:HB2	3:A6:138:LEU:HD13	0.88	0.87
11:I1:984:GLU:HG3	15:M1:618:GLN:N	1.89	0.87
11:I1:1669:ARG:HB3	11:I2:1664:PHE:CE1	1.80	0.87
11:I2:881:ILE:O	17:O3:249:ARG:CD	2.19	0.87
11:I2:951:LYS:HD2	16:N3:402:GLY:C	1.94	0.87
11:I2:1037:THR:CB	20:R3:173:LEU:HD22	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1271:GLU:CD	26:X1:504:ILE:HG21	1.95	0.87
11:I4:813:ILE:HA	26:X3:496:THR:HG22	1.56	0.87
11:I4:1279:THR:CG2	26:X3:520:GLU:HB3	2.03	0.87
21:S3:684:THR:HA	21:S4:1147:ASN:HA	1.57	0.87
1:A1:868:GLN:C	6:D3:280:GLN:HB2	1.95	0.87
1:A1:1396:GLY:CA	2:A2:888:GLN:HB3	1.70	0.87
1:A1:1399:ARG:NH2	2:A2:888:GLN:HB2	1.89	0.87
2:A2:1137:ALA:HB3	3:A5:564:ASN:HB2	0.87	0.87
2:A2:1138:GLU:CG	3:A5:147:LEU:HD13	2.05	0.87
2:A2:1163:TYR:CD2	3:A5:133:LYS:HG2	2.10	0.87
2:A4:91:LEU:HD13	3:A6:104:PRO:CG	2.04	0.87
2:A4:691:LYS:NZ	3:A6:330:LEU:O	2.07	0.87
2:A4:705:ILE:CB	3:A6:482:LYS:N	2.08	0.87
2:A4:774:VAL:HG12	3:A6:479:VAL:CB	2.05	0.87
2:A4:896:ALA:C	3:A6:165:PHE:CA	2.41	0.87
2:A4:896:ALA:CB	3:A6:164:LEU:CG	2.52	0.87
2:A4:1151:THR:CG2	5:C4:734:VAL:HB	2.01	0.87
3:A5:999:SER:HA	11:I5:62:GLU:C	1.72	0.87
5:C3:732:LYS:HZ1	11:I2:1225:LYS:CD	1.79	0.87
11:I1:883:ALA:HB3	17:O1:246:LEU:HB3	0.89	0.87
11:I1:884:LEU:CB	17:O1:246:LEU:CD2	2.51	0.87
11:I1:955:LYS:HZ1	16:N1:397:GLU:HA	1.32	0.87
11:I1:1000:ILE:HG22	16:N1:413:VAL:HG21	1.54	0.87
11:I3:1276:GLN:NE2	26:X1:538:ILE:HG12	1.83	0.87
21:S1:677:TYR:N	21:S2:1124:ASP:OD1	2.07	0.87
21:S3:686:ALA:CB	21:S4:1153:GLN:CA	2.52	0.87
1:A1:1204:TRP:NE1	2:A2:645:PHE:CZ	2.30	0.87
1:A3:1123:GLU:C	3:A6:599:ARG:CZ	2.15	0.87
1:A3:1325:MET:HE2	3:A6:126:ARG:NH2	1.86	0.87
1:A3:1332:ARG:HD2	3:A6:127:HIS:CE1	2.10	0.87
1:A3:1396:GLY:HA2	2:A4:888:GLN:HB3	1.56	0.87
2:A4:825:ARG:NH2	3:A6:564:ASN:HB2	1.88	0.87
3:A5:1029:ILE:HG23	11:I5:70:GLU:H	1.09	0.87
3:A5:1392:ARG:HD3	28:Z2:866:GLU:CA	2.05	0.87
3:A6:446:LEU:CG	6:D3:721:PRO:HA	2.04	0.87
8:F1:1205:TRP:NE1	17:O2:254:ARG:HD2	1.89	0.87
9:G1:252:LEU:CD2	17:O2:254:ARG:HD3	2.05	0.87
11:I1:840:LEU:CB	17:O1:243:LEU:CB	2.53	0.87
11:I1:894:VAL:CG2	17:O1:238:ALA:H	1.88	0.87
11:I1:987:GLY:HA2	15:M1:614:ASP:N	1.90	0.87
11:I1:1029:LEU:CD1	20:R1:171:ALA:CA	2.43	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1056:PRO:N	17:O1:278:GLU:HG2	1.88	0.87
17:O4:110:LEU:HD23	18:P4:321:ILE:CB	2.03	0.87
17:O4:111:TYR:HD1	18:P4:325:ILE:HD11	1.33	0.87
1:A1:1221:ILE:CG2	2:A2:642:ARG:O	2.21	0.87
2:A2:223:THR:C	6:D1:709:ARG:HH22	1.78	0.87
1:A3:1049:PHE:HA	6:D3:816:VAL:HG21	1.54	0.87
2:A4:500:LYS:CE	3:A6:104:PRO:O	2.16	0.87
2:A4:706:PRO:HD2	3:A6:482:LYS:CG	2.03	0.87
2:A4:890:ALA:CA	3:A6:175:GLU:CD	2.42	0.87
2:A4:892:SER:O	3:A6:177:ILE:CD1	2.15	0.87
2:A4:951:GLU:N	4:B6:347:LEU:HG	1.89	0.87
3:A6:1416:ARG:HA	28:Z4:1002:MET:H	1.40	0.87
11:I1:913:ALA:N	15:M1:584:GLN:HG3	1.78	0.87
11:I2:890:TYR:CB	17:O3:238:ALA:O	2.23	0.87
11:I2:1031:ALA:N	20:R3:173:LEU:O	2.02	0.87
11:I2:1052:LEU:CD2	16:N3:438:LEU:HD21	2.05	0.87
11:I2:1054:ILE:N	17:O3:281:ALA:N	2.16	0.87
11:I4:1274:HIS:CB	26:X3:524:SER:OG	2.22	0.87
17:O3:148:ARG:CZ	18:P3:325:ILE:HG21	2.05	0.87
21:S2:683:LEU:N	21:S2:684:THR:HA	1.90	0.87
2:A2:200:VAL:CG2	4:B2:351:GLU:O	2.22	0.87
2:A2:867:GLU:HB3	6:D1:609:ILE:CD1	2.05	0.87
2:A2:983:LEU:HB2	6:D1:528:PHE:HE1	1.37	0.87
1:A3:1280:GLN:OE1	3:A6:125:VAL:CB	2.08	0.87
2:A4:780:GLU:HA	3:A6:522:GLY:C	1.94	0.87
2:A4:859:GLN:HB3	3:A6:134:VAL:N	1.89	0.87
2:A4:968:SER:OG	6:D3:201:LEU:CA	2.20	0.87
2:A4:982:THR:HB	6:D3:494:LEU:C	1.94	0.87
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD12	1.55	0.87
3:A6:486:GLN:N	6:D3:671:ALA:O	2.08	0.87
11:I1:833:PHE:HD2	17:O1:238:ALA:N	1.73	0.87
11:I1:895:ARG:C	17:O1:233:THR:HA	1.93	0.87
11:I1:916:ALA:H	15:M1:586:ASP:H	1.22	0.87
11:I1:1635:HIS:NE2	11:I2:1674:HIS:HA	1.90	0.87
11:I2:891:LEU:HA	17:O3:239:GLN:HB3	1.57	0.87
11:I2:936:LYS:N	15:M3:609:GLY:HA3	1.88	0.87
11:I2:950:LEU:CD2	16:N3:406:HIS:NE2	2.35	0.87
11:I2:1036:PRO:HG3	17:O3:287:LEU:HG	1.57	0.87
11:I2:1100:ILE:HG22	16:N3:433:GLU:OE2	1.73	0.87
21:S3:601:LEU:N	21:S4:1156:ILE:HA	1.89	0.87
2:A2:227:SER:CA	6:D1:712:ASP:N	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:OE1	3:A6:605:TYR:HE2	1.53	0.86
1:A3:1237:LEU:HB2	3:A6:582:ALA:HB3	1.54	0.86
2:A4:549:ALA:HB2	3:A6:105:GLY:O	1.73	0.86
2:A4:854:VAL:HG13	3:A6:173:ASN:H	1.33	0.86
2:A4:944:SER:HB2	3:A6:200:VAL:CB	2.05	0.86
3:A5:1369:ILE:CD1	28:Z2:832:PHE:N	2.37	0.86
11:I1:981:VAL:HG13	20:R1:151:LYS:CG	2.05	0.86
11:I1:1055:GLU:HA	17:O1:281:ALA:H	1.36	0.86
11:I2:881:ILE:CB	17:O3:249:ARG:C	2.38	0.86
11:I2:884:LEU:CB	16:N3:400:LEU:CD1	2.43	0.86
11:I2:977:ASN:O	20:R3:148:ALA:C	2.12	0.86
11:I2:1052:LEU:H	17:O3:286:ILE:HB	1.39	0.86
17:O4:109:PRO:HB2	18:P4:318:PRO:CB	2.04	0.86
18:P1:276:SER:HB2	18:P4:322:LYS:CD	2.05	0.86
22:T3:885:ARG:HG3	22:T3:885:ARG:HH11	1.39	0.86
2:A2:989:MSE:HE3	6:D1:240:ASP:HA	0.88	0.86
2:A2:1142:PHE:CZ	3:A5:567:VAL:CA	2.57	0.86
1:A3:1117:ILE:CG2	3:A6:592:ASP:OD2	2.08	0.86
1:A3:1237:LEU:CB	3:A6:582:ALA:HB3	1.87	0.86
1:A3:1271:ILE:N	3:A6:553:ASP:HB3	1.90	0.86
1:A3:1385:GLU:OE2	3:A6:223:THR:HB	1.75	0.86
2:A4:767:ILE:N	3:A6:470:ARG:CA	2.38	0.86
2:A4:802:TYR:OH	3:A6:467:LEU:N	2.08	0.86
2:A4:878:LEU:HB2	6:D3:567:LEU:CG	2.03	0.86
2:A4:886:PHE:CA	3:A6:175:GLU:CB	2.51	0.86
3:A5:1024:ASP:CG	11:I5:96:GLU:C	2.34	0.86
3:A6:484:PRO:HG2	6:D3:672:GLU:CD	1.94	0.86
11:I1:884:LEU:HD23	17:O1:246:LEU:HD13	1.57	0.86
11:I1:940:LEU:HD23	17:O1:262:ASP:CA	1.80	0.86
11:I1:1024:PHE:O	20:R1:172:ASP:OD2	1.92	0.86
11:I1:1052:LEU:CB	16:N1:438:LEU:HD13	1.99	0.86
11:I2:899:LEU:HD12	17:O3:234:LEU:N	1.88	0.86
21:S1:683:LEU:N	21:S1:684:THR:HA	1.90	0.86
1:A1:1398:LYS:O	2:A2:884:ARG:CZ	2.22	0.86
2:A2:876:ARG:N	6:D1:564:ASN:O	1.98	0.86
2:A2:909:LYS:N	6:D1:552:TYR:OH	2.08	0.86
1:A3:1202:GLU:CG	3:A6:91:LEU:H	1.88	0.86
1:A3:1284:ASN:C	3:A6:581:LYS:HZ3	1.78	0.86
2:A4:92:ASP:O	3:A6:365:MET:HG2	1.75	0.86
2:A4:540:GLN:H	3:A6:359:LEU:C	1.76	0.86
2:A4:778:PHE:CZ	3:A6:466:ALA:HB1	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:789:LEU:HD22	3:A6:146:LYS:HD2	1.54	0.86
2:A4:898:LEU:HD23	4:B6:344:ALA:N	1.90	0.86
3:A5:1313:LYS:HB2	28:Z2:830:LEU:O	1.74	0.86
3:A5:1367:THR:HG22	28:Z2:844:CYS:O	1.76	0.86
3:A6:1403:MSE:CG	26:X4:742:ALA:C	2.34	0.86
11:I1:872:SER:O	17:O1:251:ILE:HG21	1.74	0.86
11:I1:895:ARG:C	17:O1:233:THR:CA	2.36	0.86
11:I1:952:LEU:CB	16:N1:400:LEU:CD2	2.52	0.86
11:I1:1055:GLU:N	17:O1:278:GLU:O	1.80	0.86
11:I1:1060:PHE:CD2	17:O1:279:ILE:HD13	2.09	0.86
11:I1:1103:LEU:HD11	20:R1:175:GLN:CD	1.94	0.86
11:I1:1611:PHE:HA	11:I2:1673:VAL:H	1.31	0.86
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CE2	2.42	0.86
11:I2:984:GLU:HB2	15:M3:618:GLN:HE21	1.08	0.86
11:I2:1030:ARG:N	20:R3:172:ASP:C	2.29	0.86
11:I2:1045:PHE:O	15:M3:619:ILE:CD1	2.19	0.86
17:O3:102:LYS:HB3	18:P3:322:LYS:HZ3	1.04	0.86
17:O3:102:LYS:CG	18:P3:322:LYS:CE	2.53	0.86
17:O4:107:THR:HG21	18:P4:321:ILE:CD1	2.04	0.86
1:A3:1251:VAL:CA	3:A6:634:ASP:CB	2.49	0.86
2:A4:544:PHE:CD1	3:A6:363:ALA:CB	2.55	0.86
2:A4:572:ARG:O	3:A6:454:GLN:CG	2.22	0.86
2:A4:652:PRO:CA	3:A6:542:LEU:HD13	1.98	0.86
2:A4:715:GLU:HG2	3:A6:515:THR:N	1.91	0.86
2:A4:759:ALA:HB3	3:A6:388:GLU:HB2	1.58	0.86
2:A4:761:GLN:NE2	3:A6:535:PHE:CE1	2.43	0.86
2:A4:859:GLN:NE2	3:A6:176:LEU:CD2	2.36	0.86
2:A4:861:GLN:C	6:D3:607:PRO:HG3	1.95	0.86
2:A4:897:ASN:O	3:A6:176:LEU:CB	2.22	0.86
8:F1:1205:TRP:CE2	17:O2:254:ARG:HD2	2.09	0.86
9:G2:254:ASN:O	17:O4:262:ASP:OD2	1.93	0.86
11:I1:833:PHE:CD2	17:O1:241:SER:HB3	1.87	0.86
11:I1:833:PHE:O	17:O1:241:SER:HB2	1.75	0.86
11:I1:846:ILE:CD1	15:M1:594:LYS:CG	2.52	0.86
11:I1:986:ASN:O	15:M1:611:LYS:HA	1.75	0.86
11:I1:1020:ALA:CB	16:N1:405:ALA:C	2.30	0.86
11:I1:1038:ILE:C	15:M1:620:VAL:CG2	2.43	0.86
11:I2:880:MET:O	17:O3:246:LEU:CD2	2.20	0.86
11:I2:1051:LYS:HB3	17:O3:284:LYS:O	1.75	0.86
11:I4:1276:GLN:HB3	26:X3:516:ASN:C	1.96	0.86
17:O3:155:VAL:HG23	18:P3:321:ILE:CG1	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P2:320:GLN:HG3	18:P3:278:ASN:CG	1.95	0.86
1:A1:834:GLU:C	6:D3:302:PRO:CB	2.43	0.86
2:A2:1149:THR:H	3:A5:172:PRO:CD	1.86	0.86
1:A3:1189:LEU:H	3:A6:641:ALA:C	1.75	0.86
1:A3:1225:PRO:HD3	3:A6:497:GLY:HA2	1.58	0.86
1:A3:1231:VAL:CA	3:A6:613:ALA:HB1	2.06	0.86
1:A3:1248:ILE:HG13	3:A6:587:VAL:CG2	2.01	0.86
2:A4:547:GLU:O	3:A6:455:LEU:CD2	2.23	0.86
2:A4:610:THR:CG2	3:A6:506:SER:OG	2.24	0.86
2:A4:867:GLU:CD	6:D3:605:THR:HB	1.94	0.86
2:A4:868:GLN:HG2	6:D3:608:ILE:HD13	0.88	0.86
2:A4:893:LEU:CD2	3:A6:176:LEU:CA	2.52	0.86
3:A5:189:VAL:CG2	5:C2:742:ASP:HB3	2.06	0.86
3:A5:1365:VAL:HG23	28:Z2:838:GLN:O	1.71	0.86
3:A6:1406:GLY:H	26:X4:744:MET:CB	1.85	0.86
8:F1:1264:ARG:NH1	17:O2:264:ILE:HA	1.90	0.86
8:F1:1392:LEU:HD21	17:O2:266:GLN:NE2	1.89	0.86
11:I2:847:THR:HG23	15:M3:594:LYS:NZ	1.88	0.86
11:I2:957:SER:CB	20:R3:167:GLN:O	2.23	0.86
11:I2:963:LEU:HD23	20:R3:168:LEU:CD1	2.06	0.86
11:I4:1277:LEU:CD2	26:X3:517:ASP:HB2	2.04	0.86
23:U3:278:GLN:HE21	25:W4:189:SER:CA	1.86	0.86
1:A1:1204:TRP:CD1	2:A2:672:ARG:HD3	2.10	0.86
2:A4:897:ASN:N	3:A6:178:GLY:HA2	1.91	0.86
2:A4:975:GLU:C	6:D3:501:LEU:CB	2.42	0.86
2:A4:982:THR:O	6:D3:497:PHE:HD1	1.57	0.86
3:A5:220:VAL:HG11	5:C2:739:MET:HB3	0.88	0.86
3:A5:220:VAL:HG22	5:C2:738:ASP:C	1.94	0.86
3:A6:132:ASP:CB	6:D3:607:PRO:CD	2.48	0.86
11:I1:945:LEU:CG	17:O1:258:GLU:H	1.87	0.86
11:I1:1031:ALA:N	20:R1:172:ASP:O	2.07	0.86
11:I1:1104:LEU:CD2	20:R1:174:ARG:CD	2.09	0.86
11:I2:833:PHE:CZ	17:O3:242:ARG:CA	2.57	0.86
11:I2:874:LEU:HD23	17:O3:252:VAL:O	1.75	0.86
11:I2:976:ARG:NE	20:R3:143:PHE:O	2.08	0.86
11:I2:1039:ALA:O	20:R3:170:LEU:HD21	1.74	0.86
11:I2:1052:LEU:HD22	16:N3:438:LEU:CD2	2.06	0.86
21:S1:659:ARG:C	21:S2:1102:VAL:HG22	1.96	0.86
21:S1:682:ASN:O	21:S2:1101:PHE:CE2	2.28	0.86
21:S3:683:LEU:N	21:S3:684:THR:HA	1.90	0.86
2:A2:1153:LEU:CG	3:A5:173:ASN:CA	2.51	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1228:TYR:C	3:A6:576:VAL:H	1.79	0.86
1:A3:1248:ILE:CG1	3:A6:587:VAL:CG2	2.32	0.86
2:A4:550:VAL:HG23	3:A6:367:ASP:HB3	1.56	0.86
2:A4:974:PRO:C	6:D3:499:LEU:CG	2.43	0.86
2:A4:983:LEU:HD13	6:D3:497:PHE:CE2	2.11	0.86
8:F1:1267:ARG:NE	17:O2:265:ASN:OD1	2.09	0.86
11:I1:887:GLN:HB2	16:N1:393:ILE:HD13	0.92	0.86
11:I1:919:ALA:O	15:M1:592:LEU:CD2	2.23	0.86
11:I1:949:CYS:SG	15:M1:602:MET:HE2	2.16	0.86
11:I1:984:GLU:HG3	15:M1:618:GLN:H	1.40	0.86
11:I1:1739:GLU:CB	11:I2:1540:LYS:CE	2.46	0.86
11:I2:833:PHE:CZ	17:O3:242:ARG:HA	2.11	0.86
11:I2:948:ALA:HB3	17:O3:253:LEU:O	1.74	0.86
11:I2:980:ILE:HB	15:M3:618:GLN:CG	2.06	0.86
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG23	0.86	0.86
17:O4:109:PRO:HD2	18:P4:318:PRO:HG3	1.57	0.86
23:U3:279:TYR:CD2	25:W4:189:SER:O	2.05	0.86
1:A1:1223:GLU:HG2	2:A2:734:LEU:HD21	1.57	0.86
2:A2:911:TYR:HE2	6:D1:555:ARG:CZ	1.88	0.86
1:A3:1169:LEU:N	3:A6:594:LEU:HB2	1.90	0.86
1:A3:1242:THR:HB	3:A6:584:GLY:O	1.76	0.86
1:A3:1271:ILE:CG2	3:A6:550:VAL:HA	2.06	0.86
2:A4:80:LYS:NZ	3:A6:387:THR:CG2	2.39	0.86
2:A4:90:GLN:N	3:A6:406:LEU:HA	1.89	0.86
2:A4:689:LYS:CD	3:A6:336:ILE:HD11	1.77	0.86
2:A4:702:SER:CA	3:A6:399:ASP:HB3	2.04	0.86
2:A4:764:MET:CE	3:A6:473:PRO:O	2.24	0.86
2:A4:779:ASP:O	3:A6:523:ASN:N	2.09	0.86
2:A4:900:THR:HG21	3:A6:165:PHE:CD2	1.08	0.86
2:A4:1151:THR:HA	5:C4:733:LEU:HA	1.52	0.86
3:A5:1363:ASP:OD2	28:Z2:872:TYR:CA	2.18	0.86
11:I1:841:PHE:CD1	17:O1:243:LEU:HD11	2.10	0.86
11:I1:881:ILE:CD1	17:O1:253:LEU:CD1	2.50	0.86
11:I1:931:VAL:CG2	15:M1:604:ASN:CG	2.44	0.86
11:I1:949:CYS:SG	17:O1:253:LEU:O	2.34	0.86
11:I1:950:LEU:HD13	16:N1:406:HIS:O	1.27	0.86
11:I1:1049:LEU:HD12	15:M1:626:HIS:HD2	1.03	0.86
11:I2:965:ALA:HB2	20:R3:164:PRO:HA	1.57	0.86
11:I2:1035:GLN:CA	15:M3:626:HIS:CB	2.51	0.86
11:I5:1276:GLN:HB3	26:X2:518:ASP:O	1.76	0.86
11:I5:1281:GLU:OE2	26:X2:516:ASN:ND2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1120:PRO:HD3	21:S3:1155:GLN:HE22	1.41	0.86
2:A2:876:ARG:CG	6:D1:558:LYS:HG2	2.06	0.86
2:A4:639:ASN:HA	3:A6:603:ASN:O	1.76	0.86
2:A4:642:ARG:HG2	3:A6:501:VAL:CG2	2.06	0.86
2:A4:734:LEU:CD1	3:A6:95:TYR:CG	2.59	0.86
2:A4:982:THR:O	6:D3:497:PHE:CD1	2.19	0.86
3:A5:160:ILE:N	5:C2:744:PHE:CA	2.39	0.86
3:A5:1026:PRO:HG2	11:I5:73:TYR:CB	2.05	0.86
3:A5:1313:LYS:HA	28:Z2:833:ASP:CB	2.06	0.86
3:A5:1388:ALA:O	28:Z2:867:LYS:HA	1.04	0.86
3:A6:442:ARG:HH22	6:D3:741:ILE:CA	1.80	0.86
3:A6:446:LEU:CD2	6:D3:730:ARG:CG	2.53	0.86
6:D3:743:HIS:CD2	11:I2:1528:ARG:CD	2.58	0.86
11:I1:797:LEU:CG	17:O1:245:GLU:CG	2.54	0.86
11:I1:840:LEU:HB3	17:O1:243:LEU:HB3	1.58	0.86
11:I1:1024:PHE:CB	16:N1:406:HIS:CG	2.56	0.86
11:I2:833:PHE:CD1	17:O3:245:GLU:CD	2.49	0.86
11:I2:952:LEU:HD11	15:M3:599:ILE:HG12	1.55	0.86
11:I2:1034:ASP:OD2	15:M3:630:LEU:HB2	1.76	0.86
11:I2:1039:ALA:CB	20:R3:170:LEU:CA	2.54	0.86
11:I2:1051:LYS:HE2	17:O3:289:ASP:CG	1.94	0.86
17:O4:107:THR:HG22	18:P4:321:ILE:CD1	1.99	0.86
2:A2:866:SER:N	6:D1:605:THR:HA	1.91	0.86
1:A3:1200:ARG:NH1	3:A6:608:VAL:CB	2.36	0.86
1:A3:1236:GLN:HG3	3:A6:578:ILE:HA	1.58	0.86
1:A3:1240:HIS:HD1	3:A6:118:SER:HB3	1.19	0.86
2:A4:533:ALA:HB1	3:A6:370:PRO:CG	2.05	0.86
2:A4:702:SER:CA	3:A6:399:ASP:CB	2.54	0.86
2:A4:726:ALA:CA	3:A6:575:LEU:HB2	2.06	0.86
2:A4:860:GLU:HG3	6:D3:606:LYS:CB	2.06	0.86
2:A4:880:ALA:CB	6:D3:558:LYS:CE	2.53	0.86
3:A5:1365:VAL:HG22	28:Z2:838:GLN:HA	1.56	0.86
3:A5:1395:LYS:HA	28:Z2:874:ASN:N	1.91	0.86
3:A5:1406:GLY:H	28:Z2:918:PHE:HA	1.40	0.86
3:A6:443:ILE:HD12	6:D3:695:LEU:HD21	1.58	0.86
3:A6:1392:ARG:O	28:Z4:913:ILE:CB	2.23	0.86
11:I1:837:MET:CE	17:O1:239:GLN:O	2.23	0.86
11:I1:1026:TYR:CE1	20:R1:175:GLN:CD	2.30	0.86
11:I2:841:PHE:HA	15:M3:591:ASP:HB3	1.57	0.86
11:I2:947:LEU:CD2	16:N3:408:MET:HA	2.06	0.86
11:I2:950:LEU:HG	15:M3:606:LEU:CD2	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:957:SER:HB2	20:R3:168:LEU:CB	2.06	0.86
11:I2:999:SER:HB2	17:O3:264:ILE:CG2	2.05	0.86
11:I2:1058:GLY:HA3	17:O3:277:GLU:C	1.95	0.86
11:I2:1100:ILE:CG2	16:N3:433:GLU:OE2	2.24	0.86
15:M3:483:LYS:NZ	16:N4:327:LYS:CE	2.38	0.86
22:T2:885:ARG:HG3	22:T2:885:ARG:HH11	1.39	0.86
1:A3:835:THR:CG2	6:D1:302:PRO:HG3	2.06	0.85
1:A3:1164:TYR:HD1	3:A6:642:ARG:O	1.55	0.85
2:A4:171:HIS:CD2	6:D3:708:ASP:OD2	2.28	0.85
2:A4:710:LEU:HB2	3:A6:480:VAL:HG22	0.86	0.85
2:A4:715:GLU:HB2	3:A6:112:MET:SD	2.15	0.85
2:A4:756:ALA:O	3:A6:544:PHE:CD2	1.98	0.85
2:A4:826:ASN:ND2	6:D3:633:LYS:O	2.09	0.85
3:A6:1395:LYS:O	28:Z4:920:SER:CA	2.24	0.85
8:F1:1137:GLN:CB	17:O2:248:SER:CB	2.53	0.85
9:G1:263:MET:SD	16:N2:407:ALA:O	2.34	0.85
11:I1:916:ALA:CB	15:M1:586:ASP:CA	2.24	0.85
11:I1:938:CYS:CA	15:M1:606:LEU:CD1	2.52	0.85
11:I1:984:GLU:OE2	15:M1:615:PRO:O	1.93	0.85
11:I1:1052:LEU:CA	17:O1:283:ALA:O	2.22	0.85
11:I1:1110:SER:OG	16:N1:434:LEU:O	1.94	0.85
11:I2:923:GLY:HA3	15:M3:591:ASP:C	1.95	0.85
11:I2:945:LEU:N	17:O3:259:ASP:HB3	1.91	0.85
11:I2:949:CYS:SG	17:O3:258:GLU:N	2.49	0.85
11:I2:1021:ILE:HA	16:N3:406:HIS:ND1	1.91	0.85
11:I4:1270:LYS:HB3	26:X3:524:SER:O	1.76	0.85
21:S1:671:ALA:HB3	21:S2:1146:ALA:CB	2.05	0.85
21:S4:1120:PRO:HD3	21:S4:1155:GLN:HE22	1.41	0.85
23:U3:277:LEU:H	25:W4:192:GLN:NE2	1.68	0.85
23:U3:278:GLN:CD	25:W4:189:SER:C	2.34	0.85
2:A2:1160:GLN:CG	3:A5:165:PHE:CB	2.53	0.85
1:A3:1271:ILE:HD11	3:A6:552:PHE:N	1.91	0.85
1:A3:1274:ASP:C	3:A6:556:PRO:CD	2.30	0.85
1:A3:1332:ARG:HE	6:D3:636:ASP:CB	1.89	0.85
2:A4:645:PHE:CZ	3:A6:96:PRO:HG2	2.11	0.85
2:A4:672:ARG:CG	3:A6:96:PRO:HG2	1.37	0.85
2:A4:689:LYS:HA	3:A6:381:LEU:HD21	1.58	0.85
2:A4:873:PRO:CG	6:D3:572:GLU:CD	2.44	0.85
2:A4:880:ALA:HA	6:D3:558:LYS:CE	2.05	0.85
2:A4:904:GLN:OE1	3:A6:137:HIS:CD2	2.29	0.85
2:A4:955:CYS:H	4:B6:345:LYS:CA	1.89	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:919:ALA:CA	16:N1:389:PHE:CA	2.43	0.85
11:I1:937:TYR:HB3	17:O1:258:GLU:HA	0.87	0.85
11:I1:952:LEU:CG	16:N1:400:LEU:HD21	2.05	0.85
11:I1:965:ALA:H	20:R1:165:SER:HB3	1.41	0.85
11:I1:1041:GLN:HG2	15:M1:616:LEU:CB	1.96	0.85
11:I1:1041:GLN:HG2	15:M1:616:LEU:HG	1.56	0.85
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD21	2.04	0.85
11:I1:1104:LEU:CD2	16:N1:433:GLU:CG	2.52	0.85
11:I2:1103:LEU:HB3	20:R3:174:ARG:CB	1.88	0.85
11:I3:1273:GLU:CG	26:X1:535:ALA:CB	2.53	0.85
21:S1:680:PRO:HA	21:S2:1127:GLN:NE2	1.91	0.85
22:T4:885:ARG:HG3	22:T4:885:ARG:HH1	1.39	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:HD13	1.56	0.85
2:A2:988:ARG:CA	6:D1:500:LYS:NZ	2.31	0.85
1:A3:1048:ARG:NE	6:D3:790:ARG:NH2	2.24	0.85
1:A3:1274:ASP:OD1	3:A6:558:GLU:OE2	1.92	0.85
2:A4:788:ARG:CB	3:A6:145:THR:OG1	2.25	0.85
9:G1:267:GLY:HA2	16:N2:414:ALA:O	1.77	0.85
11:I1:1018:LYS:CE	16:N1:413:VAL:O	2.25	0.85
11:I2:880:MET:SD	17:O3:250:LEU:HD21	2.16	0.85
11:I2:951:LYS:CE	16:N3:404:GLU:HB2	2.07	0.85
11:I2:958:THR:HB	16:N3:399:HIS:CD2	2.11	0.85
11:I2:1104:LEU:CD2	16:N3:437:VAL:HG23	2.02	0.85
28:Z4:537:THR:HG22	28:Z4:743:ASN:HA	1.54	0.85
2:A2:945:ARG:NH2	3:A5:588:SER:O	2.10	0.85
2:A2:1148:ARG:NH1	3:A5:169:TYR:HA	1.91	0.85
1:A3:1204:TRP:HB3	2:A4:731:ILE:HG22	1.56	0.85
2:A4:711:VAL:N	3:A6:490:PHE:HB2	1.89	0.85
2:A4:720:LEU:HD11	3:A6:510:TYR:CD1	2.11	0.85
2:A4:737:PRO:CG	3:A6:93:ASP:OD2	2.22	0.85
2:A4:765:GLU:O	3:A6:477:PHE:HE2	1.59	0.85
2:A4:826:ASN:ND2	6:D3:633:LYS:HB3	1.90	0.85
2:A4:868:GLN:CD	6:D3:570:VAL:CG1	2.44	0.85
2:A4:880:ALA:HB2	6:D3:558:LYS:HE3	1.55	0.85
2:A4:942:ASN:CG	4:B6:355:PRO:O	2.15	0.85
3:A6:1416:ARG:HG3	28:Z4:998:LYS:C	1.86	0.85
11:I1:877:ILE:CB	17:O1:253:LEU:N	2.40	0.85
11:I2:947:LEU:HD22	17:O3:256:TYR:HH	1.37	0.85
11:I2:948:ALA:CB	17:O3:256:TYR:CB	2.24	0.85
11:I3:1270:LYS:CA	26:X1:529:TRP:H	1.80	0.85
17:O3:158:GLU:HG3	18:P3:316:LEU:CB	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O3:158:GLU:O	18:P3:315:GLU:OE2	1.93	0.85
21:S4:683:LEU:N	21:S4:684:THR:HA	1.90	0.85
2:A2:965:LYS:CE	6:D1:196:ILE:O	2.24	0.85
2:A2:980:ARG:HG3	6:D1:526:LEU:H	1.39	0.85
1:A3:1220:PRO:CG	2:A4:732:GLN:OE1	2.23	0.85
1:A3:1231:VAL:O	3:A6:579:PHE:CB	2.22	0.85
1:A3:1271:ILE:HD11	3:A6:551:GLN:C	1.94	0.85
2:A4:717:VAL:HA	3:A6:512:GLU:CD	1.95	0.85
2:A4:777:LEU:HD13	3:A6:467:LEU:HD11	1.58	0.85
2:A4:798:LYS:CD	3:A6:314:TRP:NE1	2.39	0.85
2:A4:824:ASN:HD22	3:A6:158:ALA:CB	1.86	0.85
2:A4:889:VAL:CG1	3:A6:171:HIS:CD2	2.52	0.85
2:A4:908:LEU:N	6:D3:552:TYR:OH	2.08	0.85
2:A4:909:LYS:N	6:D3:552:TYR:CZ	2.44	0.85
3:A5:1398:LYS:HB2	28:Z2:873:LEU:O	1.75	0.85
8:F1:1094:GLY:HA3	17:O2:237:PRO:C	1.95	0.85
8:F1:1202:TYR:C	17:O2:252:VAL:HA	1.96	0.85
9:G1:257:THR:HA	17:O2:253:LEU:N	1.48	0.85
11:I1:922:ASP:H	15:M1:592:LEU:CG	1.73	0.85
11:I1:984:GLU:CB	15:M1:618:GLN:HE21	1.89	0.85
11:I1:1037:THR:HB	15:M1:624:ASN:ND2	1.90	0.85
11:I1:1104:LEU:CA	16:N1:436:ALA:HB1	2.06	0.85
11:I2:921:GLU:H	15:M3:592:LEU:CG	1.64	0.85
11:I2:950:LEU:CB	16:N3:406:HIS:CD2	2.59	0.85
11:I2:978:LYS:NZ	20:R3:155:GLU:CB	2.40	0.85
11:I3:815:ILE:HG21	26:X1:497:ARG:HB3	1.56	0.85
1:A1:874:VAL:HG21	6:D3:272:VAL:CB	2.01	0.85
2:A2:227:SER:HB3	6:D1:711:PHE:CB	2.05	0.85
2:A2:235:TYR:CE1	4:B2:347:LEU:CB	2.59	0.85
2:A2:876:ARG:NH1	6:D1:563:GLU:H	1.69	0.85
2:A2:983:LEU:HB3	6:D1:553:PHE:HB3	0.90	0.85
2:A2:1139:ILE:CG2	3:A5:130:ILE:HG22	1.73	0.85
1:A3:1269:ALA:HA	3:A6:554:GLN:CB	2.06	0.85
1:A3:1273:ALA:N	3:A6:554:GLN:CB	2.30	0.85
2:A4:235:TYR:CE1	4:B4:347:LEU:CB	2.59	0.85
2:A4:689:LYS:HE3	3:A6:406:LEU:HD13	1.58	0.85
2:A4:754:HIS:O	3:A6:544:PHE:CA	2.23	0.85
2:A4:760:LEU:N	3:A6:388:GLU:HG3	1.89	0.85
2:A4:780:GLU:OE2	3:A6:565:THR:HG23	1.75	0.85
8:F1:158:PRO:HG2	11:I1:1207:PRO:N	1.91	0.85
11:I1:834:SER:HA	17:O1:237:PRO:O	1.70	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1021:ILE:HD12	16:N1:410:MET:CA	2.01	0.85
11:I1:1665:LEU:CD1	11:I2:1667:GLN:HE21	1.88	0.85
11:I2:875:ARG:C	17:O3:251:ILE:CG2	1.78	0.85
11:I2:1054:ILE:N	17:O3:279:ILE:O	2.08	0.85
21:S1:670:ILE:C	21:S2:1145:LYS:C	2.35	0.85
28:Z1:293:LEU:HD13	28:Z1:297:LEU:HD12	1.59	0.85
28:Z2:293:LEU:HD13	28:Z2:297:LEU:HD12	1.59	0.85
2:A2:200:VAL:HG21	4:B2:351:GLU:O	1.76	0.85
2:A2:823:VAL:C	2:A2:856:PHE:CE1	2.49	0.85
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG13	1.35	0.85
1:A3:1131:ILE:CA	3:A6:653:ARG:NH2	2.38	0.85
1:A3:1261:TYR:CE2	3:A6:679:TYR:HE1	1.92	0.85
2:A4:874:VAL:O	6:D3:567:LEU:HB2	1.76	0.85
2:A4:908:LEU:HD21	6:D3:601:PHE:C	1.94	0.85
9:G1:251:TYR:CA	17:O2:258:GLU:OE2	2.11	0.85
9:G2:256:GLN:HG2	17:O4:262:ASP:HB2	1.58	0.85
11:I1:877:ILE:CB	17:O1:252:VAL:N	2.20	0.85
11:I1:881:ILE:CG1	17:O1:249:ARG:O	2.24	0.85
11:I1:990:GLU:HG2	17:O1:275:LEU:CB	2.07	0.85
11:I1:1063:GLN:C	16:N1:428:ASP:HB2	1.96	0.85
11:I1:1611:PHE:C	11:I2:1673:VAL:CA	2.44	0.85
11:I2:920:PHE:HZ	17:O3:247:TRP:CE3	1.95	0.85
11:I2:976:ARG:HH12	15:M3:622:VAL:HG21	1.41	0.85
11:I2:1186:PRO:HG3	17:O4:225:GLN:HE22	1.35	0.85
1:A3:1190:ILE:O	3:A6:612:ALA:O	1.95	0.85
1:A3:1229:VAL:HG13	3:A6:574:ARG:HA	1.56	0.85
1:A3:1285:LEU:HD11	3:A6:581:LYS:CB	2.07	0.85
2:A4:90:GLN:HE22	3:A6:427:MET:CB	1.89	0.85
2:A4:91:LEU:CD1	3:A6:104:PRO:HG3	2.07	0.85
2:A4:641:ALA:O	3:A6:502:THR:HA	1.76	0.85
2:A4:857:LYS:HD2	3:A6:129:ASN:CB	2.06	0.85
3:A5:999:SER:CB	11:I5:63:PRO:HD2	2.05	0.85
3:A5:1026:PRO:O	11:I5:67:LYS:C	2.15	0.85
3:A5:1026:PRO:HG3	11:I5:102:ILE:HD13	1.56	0.85
3:A5:1372:THR:HB	28:Z2:828:LEU:CA	2.07	0.85
11:I1:952:LEU:H	17:O1:253:LEU:HD13	1.37	0.85
11:I1:982:GLN:CG	15:M1:621:ARG:NH2	2.31	0.85
11:I2:934:LEU:HB3	15:M3:602:MET:O	0.93	0.85
11:I2:956:ILE:C	20:R3:166:LEU:HB2	1.97	0.85
26:X1:159:ILE:HG12	26:X1:175:LEU:HB3	1.59	0.85
26:X2:159:ILE:HG12	26:X2:175:LEU:HB3	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:867:GLU:C	6:D1:598:ILE:HG21	1.97	0.85
2:A2:974:PRO:N	6:D1:205:LEU:HD23	1.91	0.85
1:A3:1226:LEU:CA	3:A6:551:GLN:HG3	2.06	0.85
1:A3:1264:ASN:O	3:A6:683:LEU:HD13	1.76	0.85
1:A3:1269:ALA:CA	3:A6:554:GLN:CB	2.54	0.85
1:A3:1277:TRP:HE3	3:A6:577:ASP:OD1	1.59	0.85
2:A4:543:GLY:CA	3:A6:365:MET:N	2.39	0.85
2:A4:576:VAL:HG12	3:A6:509:LYS:CE	2.05	0.85
2:A4:706:PRO:HD2	3:A6:463:ASP:O	1.76	0.85
2:A4:925:LYS:NZ	3:A6:233:THR:CA	2.40	0.85
2:A4:1151:THR:CG2	5:C4:734:VAL:CA	2.54	0.85
11:I1:797:LEU:CG	17:O1:245:GLU:HG3	2.05	0.85
11:I1:945:LEU:HG	17:O1:257:ALA:N	1.90	0.85
11:I1:1016:ARG:C	16:N1:411:GLN:HG3	1.96	0.85
11:I1:1051:LYS:HE3	17:O1:289:ASP:H	0.92	0.85
11:I2:879:VAL:HB	17:O3:251:ILE:HD12	1.59	0.85
11:I2:883:ALA:HB2	17:O3:243:LEU:O	1.75	0.85
11:I2:891:LEU:HD12	16:N3:393:ILE:HD12	0.85	0.85
11:I2:945:LEU:HD12	17:O3:255:GLY:O	1.75	0.85
28:Z3:293:LEU:HD13	28:Z3:297:LEU:HD12	1.59	0.85
1:A1:1202:GLU:N	2:A2:729:SER:O	2.08	0.85
1:A1:1224:PRO:HG3	2:A2:731:ILE:HB	1.59	0.85
2:A2:970:PHE:CG	6:D1:196:ILE:CD1	2.60	0.85
2:A2:1019:ARG:NH1	6:D1:237:PRO:O	2.09	0.85
2:A2:1139:ILE:HG23	3:A5:130:ILE:HG22	1.56	0.85
1:A3:1235:ILE:C	3:A6:581:LYS:C	2.18	0.85
1:A3:1261:TYR:HB3	3:A6:621:GLN:CA	2.06	0.85
2:A4:200:VAL:HG21	4:B4:351:GLU:O	1.77	0.85
2:A4:777:LEU:CD1	3:A6:526:ILE:HA	2.07	0.85
2:A4:820:LYS:CB	3:A6:148:GLY:H	1.89	0.85
2:A4:910:TYR:HD1	6:D3:555:ARG:O	1.59	0.85
3:A5:232:LEU:CG	5:C2:739:MET:HG3	2.07	0.85
3:A5:232:LEU:HD11	5:C2:739:MET:CG	2.00	0.85
3:A6:446:LEU:HG	6:D3:730:ARG:HG3	1.57	0.85
11:I1:966:TRP:NE1	20:R1:165:SER:O	2.10	0.85
11:I1:1023:ASP:OD2	16:N1:405:ALA:HB1	1.76	0.85
11:I1:1603:ARG:HB3	11:I2:1738:TYR:O	1.76	0.85
11:I2:833:PHE:CE2	17:O3:241:SER:C	2.50	0.85
11:I2:1065:SER:CB	17:O3:274:GLY:O	2.24	0.85
22:T1:885:ARG:HG3	22:T1:885:ARG:HH11	1.39	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:CD1	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:980:ARG:HA	6:D1:503:LEU:H	1.42	0.84
1:A3:1228:TYR:HB3	3:A6:551:GLN:HB3	1.58	0.84
1:A3:1230:TYR:HD2	3:A6:575:LEU:CD1	1.86	0.84
1:A3:1261:TYR:CD2	3:A6:679:TYR:CZ	2.64	0.84
2:A4:616:ALA:N	3:A6:509:LYS:HB2	1.92	0.84
2:A4:674:ASP:HA	3:A6:99:ASP:CA	1.86	0.84
2:A4:771:ILE:CD1	3:A6:476:PHE:CD2	2.60	0.84
2:A4:867:GLU:O	6:D3:584:LEU:HD23	1.77	0.84
2:A4:917:LEU:HB3	4:B6:342:ARG:CD	2.05	0.84
2:A4:975:GLU:O	6:D3:501:LEU:CB	2.25	0.84
3:A5:1026:PRO:HG2	11:I5:73:TYR:CD1	2.10	0.84
9:G1:251:TYR:O	15:M2:602:MET:SD	2.34	0.84
11:I1:884:LEU:HD23	17:O1:246:LEU:CD1	2.07	0.84
11:I2:1055:GLU:O	17:O3:277:GLU:O	1.94	0.84
17:O2:112:GLY:HA3	18:P2:325:ILE:HG23	1.57	0.84
21:S3:1120:PRO:HD3	21:S3:1155:GLN:NE2	1.92	0.84
1:A1:875:LEU:HD12	6:D3:276:GLY:O	1.76	0.84
1:A1:1200:ARG:HE	2:A2:642:ARG:HH21	0.88	0.84
2:A2:1151:THR:CG2	5:C2:734:VAL:CA	2.54	0.84
1:A3:1248:ILE:HG12	3:A6:587:VAL:HA	1.00	0.84
1:A3:1268:ASP:H	3:A6:553:ASP:CA	1.90	0.84
1:A3:1311:ARG:NH2	3:A6:711:VAL:C	2.06	0.84
2:A4:790:ASP:OD2	3:A6:187:THR:C	2.10	0.84
11:I1:1037:THR:HG23	20:R1:170:LEU:N	1.90	0.84
11:I1:1052:LEU:C	17:O1:286:ILE:HB	1.96	0.84
11:I1:1052:LEU:HD11	15:M1:623:LEU:CD1	2.07	0.84
11:I2:947:LEU:HD21	16:N3:411:GLN:HG2	0.85	0.84
11:I2:961:ARG:NH2	16:N3:388:LYS:CB	2.39	0.84
11:I2:976:ARG:NH1	20:R3:146:LEU:C	2.24	0.84
11:I2:1021:ILE:HD11	16:N3:410:MET:HG3	1.59	0.84
11:I2:1036:PRO:HG3	17:O3:287:LEU:HD21	1.58	0.84
11:I2:1037:THR:HG21	20:R3:173:LEU:HD22	1.56	0.84
21:S1:1097:LYS:HZ3	21:S1:1101:PHE:HE1	1.21	0.84
21:S1:1120:PRO:HD3	21:S1:1155:GLN:HE22	1.41	0.84
2:A2:224:PRO:CD	6:D1:709:ARG:NH1	2.32	0.84
2:A2:980:ARG:CD	6:D1:526:LEU:H	1.90	0.84
2:A4:552:PHE:HZ	3:A6:109:ASP:OD2	1.58	0.84
2:A4:793:SER:CB	3:A6:146:LYS:HD3	2.06	0.84
2:A4:897:ASN:HA	3:A6:165:PHE:CD1	2.11	0.84
2:A4:980:ARG:O	6:D3:496:LEU:HD13	1.77	0.84
11:I1:837:MET:HE2	17:O1:242:ARG:CB	1.98	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:927:HIS:NE2	15:M1:594:LYS:CB	2.40	0.84
11:I1:940:LEU:HB2	17:O1:259:ASP:O	1.78	0.84
11:I1:946:THR:O	16:N1:407:ALA:HB2	1.74	0.84
11:I1:950:LEU:CB	16:N1:403:VAL:O	2.25	0.84
11:I1:983:LEU:O	15:M1:614:ASP:OD2	1.95	0.84
11:I2:896:PRO:CA	17:O3:233:THR:N	2.22	0.84
11:I2:1021:ILE:HA	16:N3:406:HIS:HE1	1.27	0.84
11:I2:1034:ASP:C	16:N3:441:PHE:CE2	2.49	0.84
21:S3:684:THR:HA	21:S4:1147:ASN:CA	2.08	0.84
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD1	2.60	0.84
1:A3:1233:GLN:HG3	3:A6:575:LEU:HA	1.57	0.84
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ2	0.61	0.84
1:A3:1311:ARG:HD3	3:A6:711:VAL:C	1.98	0.84
1:A3:1390:LEU:HD12	3:A6:228:GLY:CA	2.07	0.84
2:A4:85:VAL:O	3:A6:406:LEU:N	2.10	0.84
2:A4:680:LEU:HD21	3:A6:470:ARG:CZ	2.06	0.84
2:A4:970:PHE:CA	6:D3:192:TYR:OH	2.19	0.84
2:A4:988:ARG:HG2	6:D3:500:LYS:HG3	1.58	0.84
3:A5:1029:ILE:HA	11:I5:69:GLY:C	1.98	0.84
3:A5:1376:LEU:CD1	28:Z2:810:ASP:CB	2.53	0.84
11:I1:840:LEU:HB3	17:O1:243:LEU:CB	2.08	0.84
11:I1:957:SER:CA	20:R1:166:LEU:HD13	2.07	0.84
11:I1:983:LEU:CD1	15:M1:604:ASN:CG	2.46	0.84
11:I2:834:SER:CA	17:O3:237:PRO:O	2.26	0.84
11:I2:915:ALA:O	15:M3:585:LEU:HB3	1.76	0.84
11:I2:1113:LEU:HD22	17:O3:282:LYS:HZ3	1.40	0.84
11:I3:1267:LEU:HB3	26:X1:497:ARG:HH22	0.68	0.84
1:A1:1204:TRP:HH2	2:A2:757:LEU:HD22	1.06	0.84
1:A1:1226:LEU:N	2:A2:725:GLU:CG	2.39	0.84
1:A3:1186:TRP:CH2	3:A6:637:THR:HG22	2.10	0.84
1:A3:1281:LEU:CD1	3:A6:577:ASP:O	2.26	0.84
2:A4:618:ALA:HA	3:A6:498:ARG:NH1	1.77	0.84
2:A4:781:ARG:HH22	6:D3:633:LYS:CD	1.86	0.84
2:A4:971:ALA:H	6:D3:202:GLN:HG2	1.43	0.84
2:A4:983:LEU:HG	6:D3:528:PHE:CZ	2.03	0.84
2:A4:985:ALA:HB1	6:D3:501:LEU:N	1.91	0.84
3:A6:1411:ARG:CG	26:X4:690:THR:N	2.41	0.84
11:I1:879:VAL:C	17:O1:247:TRP:N	2.15	0.84
11:I1:940:LEU:HB2	17:O1:259:ASP:C	1.97	0.84
11:I1:1038:ILE:C	20:R1:169:GLY:HA3	1.97	0.84
11:I1:1055:GLU:N	17:O1:281:ALA:H	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1739:GLU:O	11:I2:1604:ALA:N	1.93	0.84
11:I2:917:TYR:HD2	15:M3:591:ASP:H	0.95	0.84
21:S3:686:ALA:N	21:S4:1149:GLU:O	1.96	0.84
2:A2:781:ARG:HE	6:D1:673:ARG:CB	1.87	0.84
2:A2:827:ILE:CD1	2:A2:859:GLN:HB2	2.07	0.84
2:A2:1153:LEU:CG	3:A5:173:ASN:C	2.41	0.84
2:A4:86:ASN:CB	3:A6:393:HIS:C	2.41	0.84
2:A4:90:GLN:N	3:A6:407:SER:H	1.73	0.84
2:A4:683:LEU:C	3:A6:403:ARG:NE	2.30	0.84
2:A4:826:ASN:CG	3:A6:565:THR:HA	1.98	0.84
2:A4:851:ASP:HA	3:A6:171:HIS:HB2	1.60	0.84
2:A4:867:GLU:HG3	6:D3:605:THR:HG21	0.85	0.84
2:A4:868:GLN:CB	6:D3:570:VAL:CG2	2.48	0.84
2:A4:869:ALA:HB1	6:D3:573:LEU:CD2	2.07	0.84
2:A4:889:VAL:HG21	3:A6:174:PRO:CB	2.07	0.84
2:A4:976:LEU:N	6:D3:496:LEU:CA	2.13	0.84
3:A5:1310:ARG:HH21	28:Z2:827:GLN:CA	1.89	0.84
11:I1:837:MET:SD	17:O1:243:LEU:N	2.48	0.84
11:I1:837:MET:SD	17:O1:242:ARG:C	2.55	0.84
11:I1:880:MET:HB2	17:O1:250:LEU:HB3	0.86	0.84
11:I1:951:LYS:O	16:N1:400:LEU:C	2.15	0.84
11:I1:984:GLU:HB2	15:M1:618:GLN:HE21	1.41	0.84
11:I1:1068:HIS:HE1	16:N1:431:VAL:CB	1.90	0.84
11:I1:1674:HIS:HA	11:I2:1635:HIS:NE2	1.92	0.84
11:I2:790:LEU:CD2	17:O3:251:ILE:HD13	2.08	0.84
11:I2:836:VAL:HG11	17:O3:244:GLU:HB3	1.54	0.84
11:I2:1046:HIS:O	17:O3:284:LYS:N	2.11	0.84
11:I2:1052:LEU:HD21	16:N3:434:LEU:HD11	1.58	0.84
26:X3:159:ILE:HG12	26:X3:175:LEU:HB3	1.59	0.84
1:A1:868:GLN:C	6:D3:280:GLN:HB3	1.98	0.84
2:A2:980:ARG:CG	6:D1:526:LEU:H	1.91	0.84
1:A3:1332:ARG:HE	6:D3:636:ASP:HB3	1.41	0.84
2:A4:79:ALA:CB	3:A6:321:ASP:OD1	2.25	0.84
2:A4:79:ALA:O	3:A6:384:ILE:C	2.16	0.84
2:A4:173:ASN:ND2	6:D3:762:ARG:HB3	1.91	0.84
2:A4:771:ILE:HD11	3:A6:476:PHE:CD1	2.12	0.84
2:A4:780:GLU:CB	3:A6:524:ARG:CB	2.55	0.84
2:A4:823:VAL:HG11	3:A6:167:TRP:HZ2	1.11	0.84
2:A4:893:LEU:HD11	3:A6:175:GLU:CA	2.07	0.84
2:A4:908:LEU:O	6:D3:555:ARG:HB3	1.78	0.84
3:A5:234:LEU:CA	5:C2:738:ASP:HA	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1005:PHE:CE1	11:I5:67:LYS:NZ	2.46	0.84
11:I1:934:LEU:C	15:M1:605:THR:OG1	2.08	0.84
11:I1:949:CYS:C	16:N1:403:VAL:CG1	2.43	0.84
11:I1:952:LEU:CA	16:N1:403:VAL:HG21	2.04	0.84
11:I1:990:GLU:HB2	15:M1:611:LYS:HE3	1.60	0.84
11:I1:1066:LEU:CB	16:N1:430:ARG:CG	2.53	0.84
11:I1:1106:LYS:CB	16:N1:440:GLU:OE2	2.26	0.84
11:I1:1739:GLU:N	11:I2:1607:GLN:OE1	2.09	0.84
11:I2:889:THR:CB	17:O3:242:ARG:CD	2.46	0.84
11:I2:1066:LEU:HG	16:N3:430:ARG:HB3	1.59	0.84
21:S1:658:SER:O	21:S2:1105:LEU:CD1	2.20	0.84
21:S2:1120:PRO:HD3	21:S2:1155:GLN:NE2	1.92	0.84
21:S4:1120:PRO:HD3	21:S4:1155:GLN:NE2	1.92	0.84
28:Z4:293:LEU:HD13	28:Z4:297:LEU:HD12	1.59	0.84
2:A2:825:ARG:HD3	6:D1:633:LYS:HZ3	1.38	0.84
2:A2:980:ARG:HA	6:D1:473:GLU:OE2	1.76	0.84
1:A3:1186:TRP:CE3	3:A6:641:ALA:CB	2.60	0.84
1:A3:1236:GLN:OE1	3:A6:578:ILE:HG23	1.77	0.84
1:A3:1249:PHE:CE1	3:A6:584:GLY:N	2.44	0.84
2:A4:710:LEU:HD22	3:A6:465:SER:HA	1.60	0.84
2:A4:780:GLU:CB	3:A6:564:ASN:ND2	2.26	0.84
2:A4:897:ASN:C	3:A6:165:PHE:HD1	1.80	0.84
8:F1:158:PRO:CG	11:I1:1207:PRO:N	2.39	0.84
8:F1:1262:HIS:CD2	17:O2:259:ASP:CB	2.61	0.84
11:I1:849:LEU:HD12	17:O1:247:TRP:CE3	2.12	0.84
11:I1:899:LEU:CD1	17:O1:233:THR:N	2.35	0.84
11:I1:913:ALA:HB3	15:M1:584:GLN:HG2	1.60	0.84
11:I1:919:ALA:CA	16:N1:389:PHE:HA	2.04	0.84
11:I1:958:THR:H	16:N1:399:HIS:CD2	1.96	0.84
11:I1:991:THR:CG2	15:M1:611:LYS:N	2.38	0.84
11:I2:980:ILE:HD13	15:M3:622:VAL:HG22	1.58	0.84
18:P1:279:GLY:H	18:P4:322:LYS:CD	1.88	0.84
21:S1:1120:PRO:HD3	21:S1:1155:GLN:NE2	1.92	0.84
1:A1:1197:ALA:O	2:A2:728:LYS:HG3	1.78	0.84
1:A3:1392:ARG:HB2	3:A6:225:THR:CB	1.86	0.84
2:A4:691:LYS:CE	3:A6:330:LEU:HG	2.07	0.84
2:A4:768:SER:CA	3:A6:476:PHE:O	2.23	0.84
2:A4:825:ARG:NH1	6:D3:633:LYS:HG3	1.93	0.84
3:A5:1094:ILE:O	11:I5:2:THR:O	1.96	0.84
3:A6:446:LEU:HD12	6:D3:721:PRO:CA	1.94	0.84
11:I1:895:ARG:NE	17:O1:233:THR:CB	2.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:985:ARG:N	15:M1:612:PRO:O	2.10	0.84
11:I5:1279:THR:HG23	26:X2:520:GLU:C	1.93	0.84
23:U3:278:GLN:HG3	25:W4:189:SER:OG	1.77	0.84
1:A3:1079:ILE:O	6:D3:798:MET:HE2	1.77	0.84
1:A3:1223:GLU:HG3	2:A4:734:LEU:CD1	2.07	0.84
1:A3:1245:ASP:HB3	3:A6:587:VAL:CG1	2.07	0.84
2:A4:678:LEU:CD1	3:A6:103:ARG:O	2.26	0.84
2:A4:702:SER:CB	3:A6:379:VAL:HG13	2.07	0.84
2:A4:713:ILE:CG1	3:A6:462:LEU:HD13	2.08	0.84
2:A4:770:GLY:O	3:A6:469:PHE:HD2	1.28	0.84
2:A4:876:ARG:HG2	6:D3:563:GLU:C	1.97	0.84
2:A4:886:PHE:O	3:A6:175:GLU:CB	2.25	0.84
3:A5:157:TRP:HB2	5:C2:741:THR:C	1.76	0.84
3:A5:157:TRP:HH2	5:C2:747:PRO:HA	1.43	0.84
8:F1:1261:TYR:HD2	17:O2:259:ASP:CG	1.80	0.84
11:I1:923:GLY:HA2	15:M1:589:GLY:O	1.75	0.84
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB3	0.85	0.84
11:I1:1602:PHE:CD1	11:I2:1666:THR:HG21	2.12	0.84
11:I2:879:VAL:O	17:O3:249:ARG:N	2.09	0.84
2:A2:780:GLU:N	6:D1:679:ILE:N	2.23	0.83
2:A2:864:ARG:C	6:D1:608:ILE:HG12	1.98	0.83
2:A2:975:GLU:OE2	6:D1:501:LEU:HG	1.78	0.83
2:A4:615:LEU:HD21	3:A6:499:ILE:HD11	1.57	0.83
2:A4:720:LEU:HD12	3:A6:510:TYR:CD1	2.08	0.83
2:A4:768:SER:CA	3:A6:477:PHE:N	2.39	0.83
2:A4:970:PHE:HA	6:D3:192:TYR:CZ	2.12	0.83
3:A5:165:PHE:CA	5:C2:743:LEU:HB2	2.07	0.83
3:A6:1375:THR:HB	28:Z4:826:TYR:O	1.78	0.83
11:I1:947:LEU:CG	16:N1:408:MET:HA	2.08	0.83
11:I1:1038:ILE:N	20:R1:169:GLY:HA3	1.93	0.83
11:I2:834:SER:HA	17:O3:237:PRO:O	1.75	0.83
11:I2:1037:THR:HG22	15:M3:623:LEU:HD22	1.60	0.83
11:I2:1048:GLU:HB2	17:O3:284:LYS:CA	2.08	0.83
11:I2:1106:LYS:HA	16:N3:439:ARG:HH12	1.05	0.83
1:A1:1398:LYS:C	2:A2:884:ARG:NH2	2.08	0.83
2:A2:908:LEU:HD23	6:D1:602:THR:N	1.93	0.83
2:A2:1124:ARG:O	3:A5:136:GLU:HA	1.77	0.83
1:A3:1186:TRP:C	3:A6:618:ALA:HA	1.96	0.83
1:A3:1257:VAL:HG12	3:A6:620:GLY:CA	1.99	0.83
1:A3:1325:MET:CG	3:A6:126:ARG:HH21	1.91	0.83
2:A4:549:ALA:O	3:A6:432:VAL:O	1.97	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:679:TYR:CZ	3:A6:511:PHE:HA	2.13	0.83
2:A4:688:TRP:O	3:A6:381:LEU:HA	1.78	0.83
2:A4:734:LEU:O	3:A6:549:ALA:HB3	0.92	0.83
2:A4:767:ILE:CA	3:A6:476:PHE:HA	1.71	0.83
2:A4:780:GLU:CD	3:A6:565:THR:HG23	1.97	0.83
2:A4:867:GLU:CD	6:D3:593:ARG:NH2	2.31	0.83
2:A4:965:LYS:HE3	6:D3:196:ILE:HA	1.59	0.83
2:A4:976:LEU:CD1	6:D3:501:LEU:HD22	2.07	0.83
2:A4:1333:ARG:NH2	2:A4:1348:GLU:OE2	2.12	0.83
3:A5:1365:VAL:HG22	28:Z2:838:GLN:C	1.97	0.83
3:A5:1398:LYS:HB3	28:Z2:873:LEU:O	1.78	0.83
11:I1:952:LEU:CD1	15:M1:599:ILE:HG12	2.08	0.83
11:I1:1063:GLN:O	16:N1:428:ASP:CB	2.25	0.83
11:I2:1029:LEU:HD21	20:R3:170:LEU:HD23	1.59	0.83
11:I2:1046:HIS:O	17:O3:284:LYS:CG	2.26	0.83
21:S3:1097:LYS:HZ3	21:S3:1101:PHE:HE1	1.25	0.83
2:A2:781:ARG:HG3	6:D1:673:ARG:CA	2.07	0.83
2:A2:874:VAL:HG13	6:D1:611:LYS:CG	2.08	0.83
2:A2:1138:GLU:HB3	3:A5:147:LEU:CD1	2.08	0.83
1:A3:1248:ILE:CD1	3:A6:640:LEU:CD1	2.49	0.83
1:A3:1321:MET:HE3	3:A6:571:ARG:HH21	1.06	0.83
2:A4:615:LEU:HB3	3:A6:509:LYS:C	1.98	0.83
2:A4:758:HIS:HA	3:A6:535:PHE:CE1	2.14	0.83
2:A4:780:GLU:HG2	3:A6:523:ASN:CA	2.08	0.83
2:A4:825:ARG:CZ	3:A6:564:ASN:HB2	2.07	0.83
2:A4:859:GLN:NE2	3:A6:134:VAL:HG21	1.93	0.83
2:A4:862:LEU:N	3:A6:132:ASP:CB	2.38	0.83
2:A4:934:TRP:HZ2	4:B6:350:GLU:CG	1.89	0.83
2:A4:976:LEU:HG	6:D3:501:LEU:HB3	0.89	0.83
2:A4:1154:PHE:HB3	5:C4:733:LEU:CD1	2.08	0.83
9:G1:263:MET:CE	17:O2:256:TYR:CZ	2.49	0.83
11:I1:921:GLU:CD	16:N1:392:THR:O	2.17	0.83
11:I1:977:ASN:OD1	15:M1:621:ARG:CB	2.24	0.83
11:I1:1038:ILE:CD1	20:R1:167:GLN:OE1	2.26	0.83
11:I1:1672:VAL:CG2	11:I2:1611:PHE:CB	2.54	0.83
11:I2:841:PHE:HA	15:M3:591:ASP:CB	2.07	0.83
11:I2:888:GLU:H	16:N3:393:ILE:CG2	1.81	0.83
11:I2:934:LEU:O	15:M3:606:LEU:HA	1.76	0.83
2:A2:864:ARG:NH1	6:D1:610:ASN:HD21	1.63	0.83
2:A2:983:LEU:CB	6:D1:528:PHE:CE1	2.62	0.83
2:A2:986:THR:CG2	6:D1:497:PHE:HE1	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1193:SER:OG	3:A6:610:THR:O	1.94	0.83
1:A3:1201:ARG:HG2	2:A4:728:LYS:CA	2.08	0.83
2:A4:710:LEU:N	3:A6:480:VAL:CG2	2.41	0.83
2:A4:735:ALA:O	3:A6:685:ARG:NH1	2.06	0.83
2:A4:767:ILE:HA	3:A6:470:ARG:N	1.92	0.83
2:A4:803:GLU:HB2	3:A6:395:MET:O	1.78	0.83
2:A4:865:ALA:CA	6:D3:567:LEU:CD2	2.44	0.83
2:A4:954:ILE:CB	4:B6:345:LYS:HA	2.06	0.83
3:A5:1364:GLN:HE21	28:Z2:843:LYS:HA	1.41	0.83
3:A6:485:ASN:CB	6:D3:674:TYR:H	1.88	0.83
11:I1:833:PHE:CD2	17:O1:238:ALA:N	2.45	0.83
11:I1:874:LEU:HA	17:O1:251:ILE:O	1.78	0.83
11:I1:924:ILE:CD1	15:M1:596:ILE:HG13	2.07	0.83
11:I1:950:LEU:HD11	16:N1:410:MET:CB	2.07	0.83
11:I1:959:SER:CB	20:R1:166:LEU:HD21	2.08	0.83
11:I1:1048:GLU:OE2	20:R1:143:PHE:CB	2.27	0.83
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD13	1.54	0.83
11:I2:996:LEU:HD11	15:M3:607:SER:O	1.78	0.83
11:I2:1049:LEU:CG	17:O3:291:ASP:CG	2.47	0.83
1:A1:835:THR:N	6:D3:302:PRO:CB	2.39	0.83
1:A1:874:VAL:HG13	6:D3:272:VAL:HB	1.56	0.83
2:A2:908:LEU:HD23	6:D1:601:PHE:HB2	1.58	0.83
2:A2:988:ARG:CB	6:D1:500:LYS:NZ	1.83	0.83
1:A3:1189:LEU:HD23	3:A6:644:ALA:HB1	1.61	0.83
1:A3:1285:LEU:HD11	3:A6:581:LYS:HA	1.56	0.83
2:A4:861:GLN:CA	6:D3:607:PRO:CG	2.57	0.83
2:A4:870:HIS:HB3	6:D3:548:LEU:HA	1.61	0.83
3:A5:1026:PRO:CG	11:I5:102:ILE:HD13	2.08	0.83
11:I1:916:ALA:HB3	15:M1:586:ASP:CB	2.08	0.83
11:I1:926:SER:OG	20:R1:156:GLY:HA2	1.78	0.83
11:I2:950:LEU:CG	15:M3:606:LEU:CD2	2.56	0.83
11:I2:1029:LEU:HD11	16:N3:433:GLU:CD	1.89	0.83
11:I2:1109:LEU:CD1	17:O3:286:ILE:CG2	2.27	0.83
2:A2:1154:PHE:HB3	5:C2:733:LEU:CD1	2.08	0.83
1:A3:1056:PHE:CE2	6:D3:807:THR:O	2.30	0.83
1:A3:1186:TRP:HH2	3:A6:583:LEU:CB	1.89	0.83
2:A4:718:GLU:OE1	3:A6:491:VAL:HG12	1.77	0.83
2:A4:762:LYS:O	3:A6:471:PHE:HB3	1.76	0.83
2:A4:795:GLN:N	3:A6:249:SER:OG	2.12	0.83
2:A4:808:GLN:HE22	3:A6:328:TYR:HB2	1.42	0.83
2:A4:878:LEU:HD21	6:D3:607:PRO:HB2	1.53	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:976:LEU:CD1	6:D3:472:PHE:CD2	2.46	0.83
9:G2:256:GLN:HG2	17:O4:262:ASP:CB	2.09	0.83
11:I1:1041:GLN:HG2	15:M1:616:LEU:CG	2.09	0.83
11:I2:841:PHE:C	15:M3:591:ASP:CB	2.47	0.83
11:I2:944:GLU:HB3	17:O3:256:TYR:HD1	1.40	0.83
11:I2:952:LEU:C	16:N3:403:VAL:HG21	1.98	0.83
11:I2:1029:LEU:HD21	20:R3:170:LEU:CD2	2.07	0.83
11:I2:1040:HIS:HE2	16:N3:437:VAL:HG21	1.43	0.83
11:I2:1109:LEU:HD13	17:O3:290:TYR:CZ	2.13	0.83
11:I3:1276:GLN:CD	26:X1:535:ALA:HA	1.98	0.83
11:I3:1278:ALA:H	26:X1:519:ILE:HG22	0.68	0.83
18:P1:277:PRO:HB2	18:P4:322:LYS:N	1.93	0.83
2:A2:823:VAL:HA	2:A2:856:PHE:HE1	0.73	0.83
2:A2:909:LYS:HA	6:D1:552:TYR:OH	1.78	0.83
2:A2:970:PHE:CA	6:D1:192:TYR:CE2	2.30	0.83
2:A2:1145:GLY:CA	3:A5:129:ASN:HD21	1.91	0.83
1:A3:1098:ARG:CD	11:I2:1478:VAL:HG22	2.04	0.83
1:A3:1165:ASP:CB	3:A6:598:VAL:HG22	1.76	0.83
1:A3:1265:ASN:OD1	3:A6:683:LEU:CD1	2.25	0.83
2:A4:610:THR:HG21	3:A6:506:SER:HG	1.43	0.83
2:A4:679:TYR:HB3	3:A6:101:TYR:HD2	1.42	0.83
2:A4:859:GLN:NE2	3:A6:134:VAL:CG2	2.41	0.83
2:A4:866:SER:O	6:D3:598:ILE:CG1	2.16	0.83
2:A4:916:GLN:N	4:B6:342:ARG:HH11	1.76	0.83
2:A4:949:PHE:H	4:B6:348:PRO:HD2	1.42	0.83
2:A4:950:ASP:N	4:B6:348:PRO:CD	2.36	0.83
3:A5:177:ILE:HD13	5:C2:736:ASN:C	1.98	0.83
3:A5:233:THR:HA	5:C2:737:LYS:H	1.43	0.83
3:A6:565:THR:HG22	6:D3:633:LYS:HB3	0.86	0.83
3:A6:1367:THR:H	28:Z4:877:ILE:CB	1.91	0.83
3:A6:1410:ALA:N	26:X4:686:ASP:H	1.75	0.83
11:I1:1603:ARG:HB3	11:I2:1738:TYR:C	1.99	0.83
11:I1:1611:PHE:CE2	11:I2:1669:ARG:NH1	2.46	0.83
11:I2:833:PHE:HZ	17:O3:242:ARG:CA	1.88	0.83
11:I2:1029:LEU:H	20:R3:171:ALA:N	1.68	0.83
11:I2:1051:LYS:HB2	17:O3:289:ASP:H	1.44	0.83
11:I3:1270:LYS:CA	26:X1:529:TRP:N	2.41	0.83
11:I3:1370:VAL:HG22	12:J3:259:THR:HG21	1.61	0.83
2:A2:1333:ARG:NH2	2:A2:1348:GLU:OE2	2.12	0.83
1:A3:1165:ASP:OD1	3:A6:648:TYR:CD2	2.32	0.83
1:A3:1227:PRO:HB2	3:A6:552:PHE:CZ	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1238:ILE:HA	3:A6:586:CYS:SG	2.18	0.83
1:A3:1261:TYR:CG	3:A6:621:GLN:CG	0.78	0.83
1:A3:1325:MET:SD	3:A6:125:VAL:O	2.36	0.83
1:A3:1333:ARG:O	6:D3:637:LYS:NZ	2.12	0.83
2:A4:710:LEU:HD23	3:A6:479:VAL:CA	2.08	0.83
2:A4:710:LEU:H	3:A6:480:VAL:HG22	1.40	0.83
2:A4:754:HIS:CE1	3:A6:685:ARG:HH22	1.97	0.83
11:I1:954:GLU:HB2	16:N1:403:VAL:N	1.90	0.83
11:I2:890:TYR:HD1	17:O3:238:ALA:O	1.62	0.83
11:I2:914:ASN:O	15:M3:585:LEU:C	2.05	0.83
11:I2:944:GLU:C	17:O3:256:TYR:CA	2.42	0.83
11:I2:951:LYS:CG	16:N3:404:GLU:HG3	2.09	0.83
11:I2:978:LYS:HZ2	20:R3:155:GLU:CA	1.90	0.83
11:I2:1037:THR:OG1	15:M3:620:VAL:HG13	1.78	0.83
11:I3:1271:GLU:N	26:X1:529:TRP:HB2	1.94	0.83
11:I4:1370:VAL:HG22	12:J4:259:THR:HG21	1.61	0.83
18:P1:277:PRO:CB	18:P4:323:GLN:N	2.42	0.83
21:S1:660:LEU:N	21:S2:1102:VAL:HG22	1.92	0.83
21:S1:671:ALA:N	21:S2:1146:ALA:CA	2.28	0.83
21:S1:680:PRO:CA	21:S2:1127:GLN:NE2	2.42	0.83
1:A1:1401:VAL:N	2:A2:884:ARG:HH12	1.77	0.83
2:A2:225:THR:N	6:D1:709:ARG:CZ	2.41	0.83
2:A2:864:ARG:NH2	6:D1:610:ASN:HD21	1.76	0.83
2:A2:1135:ARG:CD	3:A5:147:LEU:HD23	2.09	0.83
1:A3:1184:ASP:H	3:A6:642:ARG:CZ	1.87	0.83
1:A3:1186:TRP:CA	3:A6:641:ALA:HB3	2.09	0.83
1:A3:1186:TRP:HE3	3:A6:641:ALA:HB2	1.34	0.83
1:A3:1189:LEU:HD13	3:A6:614:ALA:CA	2.08	0.83
1:A3:1233:GLN:CG	3:A6:578:ILE:CB	2.56	0.83
1:A3:1261:TYR:HD2	3:A6:679:TYR:OH	1.59	0.83
1:A3:1325:MET:SD	3:A6:125:VAL:C	2.56	0.83
2:A4:602:ILE:HG13	3:A6:506:SER:OG	1.78	0.83
2:A4:715:GLU:HG2	3:A6:515:THR:HA	1.59	0.83
2:A4:722:ASN:CA	3:A6:572:ARG:HH22	1.91	0.83
2:A4:878:LEU:CA	6:D3:567:LEU:HD12	2.08	0.83
2:A4:981:PRO:HD3	6:D3:473:GLU:OE2	1.79	0.83
3:A6:442:ARG:HD2	6:D3:692:LEU:HG	1.61	0.83
3:A6:1359:LEU:HB3	28:Z4:917:ASP:N	1.94	0.83
3:A6:1399:ARG:HH22	28:Z4:968:ARG:H	1.22	0.83
3:A6:1415:PHE:O	28:Z4:1001:LEU:CB	2.27	0.83
11:I1:833:PHE:HD2	17:O1:238:ALA:CA	1.88	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:849:LEU:HD13	17:O1:247:TRP:HE3	1.34	0.83
11:I1:913:ALA:CB	15:M1:584:GLN:HG2	1.92	0.83
11:I1:927:HIS:NE2	15:M1:594:LYS:CG	2.41	0.83
11:I1:955:LYS:HB2	16:N1:400:LEU:HG	1.61	0.83
11:I1:996:LEU:HD23	16:N1:410:MET:CE	2.02	0.83
11:I1:1036:PRO:N	16:N1:441:PHE:CE2	2.47	0.83
11:I1:1662:ARG:HA	11:I2:1667:GLN:NE2	1.74	0.83
11:I2:833:PHE:CE2	17:O3:238:ALA:O	2.31	0.83
11:I2:976:ARG:NH2	20:R3:143:PHE:CD1	2.47	0.83
11:I2:978:LYS:HE2	20:R3:154:ALA:N	1.93	0.83
11:I3:1271:GLU:CA	26:X1:525:ILE:CG2	2.52	0.83
17:O3:102:LYS:HG2	18:P3:322:LYS:CE	2.08	0.83
17:O4:112:GLY:O	18:P4:325:ILE:HD13	1.78	0.83
2:A2:826:ASN:ND2	6:D1:633:LYS:O	2.12	0.83
2:A2:876:ARG:CD	6:D1:558:LYS:CB	2.56	0.83
1:A3:1164:TYR:O	3:A6:594:LEU:HD21	1.79	0.83
1:A3:1241:ARG:HD2	3:A6:597:GLU:OE1	1.79	0.83
1:A3:1274:ASP:OD1	3:A6:558:GLU:CG	2.26	0.83
2:A4:549:ALA:O	3:A6:432:VAL:HB	1.77	0.83
2:A4:554:GLN:HE21	3:A6:370:PRO:CD	1.91	0.83
2:A4:678:LEU:N	3:A6:98:LEU:O	2.10	0.83
2:A4:820:LYS:NZ	3:A6:166:LEU:HG	1.93	0.83
2:A4:868:GLN:HA	6:D3:570:VAL:CG1	1.96	0.83
11:I2:797:LEU:CB	17:O3:245:GLU:HG2	2.07	0.83
11:I2:881:ILE:HG22	17:O3:249:ARG:NH2	1.92	0.83
11:I2:1029:LEU:CD1	16:N3:433:GLU:HG3	2.08	0.83
21:S3:1058:ILE:O	21:S3:1059:ASP:HB2	1.79	0.83
2:A2:868:GLN:H	6:D1:598:ILE:HD13	1.43	0.82
2:A2:870:HIS:CG	6:D1:566:PHE:CE1	2.67	0.82
2:A2:908:LEU:HA	6:D1:601:PHE:HB3	1.59	0.82
1:A3:1396:GLY:O	3:A6:172:PRO:CG	2.26	0.82
2:A4:856:PHE:CZ	3:A6:565:THR:O	2.32	0.82
2:A4:871:ASN:CG	6:D3:573:LEU:H	1.82	0.82
2:A4:886:PHE:C	3:A6:175:GLU:CB	2.43	0.82
2:A4:889:VAL:HG12	3:A6:171:HIS:HB2	1.58	0.82
2:A4:904:GLN:HG3	3:A6:137:HIS:NE2	1.94	0.82
3:A6:1394:VAL:C	28:Z4:913:ILE:HA	1.72	0.82
8:F2:1091:SER:C	17:O4:244:GLU:HB3	2.00	0.82
9:G1:263:MET:HE2	17:O2:256:TYR:CZ	1.98	0.82
9:G1:266:ASP:HB3	16:N2:412:ASN:C	1.95	0.82
11:I1:949:CYS:N	17:O1:253:LEU:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1037:THR:HB	20:R3:173:LEU:HD22	1.61	0.82
11:I5:1279:THR:HG23	26:X2:520:GLU:CA	2.08	0.82
1:A1:1229:VAL:CG2	2:A2:725:GLU:CG	2.55	0.82
1:A1:1332:ARG:CZ	6:D1:681:ALA:HB1	2.09	0.82
2:A2:1163:TYR:OH	3:A5:136:GLU:CB	2.27	0.82
1:A3:1233:GLN:C	3:A6:601:PHE:CZ	2.53	0.82
1:A3:1277:TRP:HB2	3:A6:556:PRO:HG2	1.61	0.82
1:A3:1332:ARG:HH21	6:D3:681:ALA:HB1	1.44	0.82
2:A4:92:ASP:CG	3:A6:105:GLY:H	1.82	0.82
2:A4:788:ARG:HB3	3:A6:145:THR:CG2	2.09	0.82
2:A4:947:LYS:HE3	3:A6:235:TYR:HE2	1.00	0.82
3:A6:1365:VAL:HA	28:Z4:878:HIS:CB	2.08	0.82
11:I1:934:LEU:CA	15:M1:602:MET:CE	2.52	0.82
11:I2:890:TYR:CD1	17:O3:238:ALA:O	2.31	0.82
11:I2:898:VAL:CB	17:O3:236:ASP:HA	2.05	0.82
11:I2:1030:ARG:HH11	20:R3:175:GLN:HG2	1.44	0.82
11:I2:1543:LEU:O	12:J1:300:ILE:CG2	2.26	0.82
21:S1:678:GLU:CB	21:S2:1127:GLN:HG2	2.09	0.82
21:S3:686:ALA:HB3	21:S4:1153:GLN:CA	2.09	0.82
1:A3:1084:ARG:CB	6:D3:794:THR:HA	1.94	0.82
1:A3:1261:TYR:CB	3:A6:621:GLN:H	1.90	0.82
1:A3:1279:ILE:HA	3:A6:625:LEU:C	1.98	0.82
2:A4:682:ARG:CD	3:A6:106:ALA:HA	2.09	0.82
2:A4:691:LYS:NZ	3:A6:331:SER:CA	2.37	0.82
2:A4:868:GLN:CG	6:D3:570:VAL:CG1	2.57	0.82
2:A4:977:VAL:C	6:D3:492:VAL:HG12	1.98	0.82
3:A5:220:VAL:CA	5:C2:738:ASP:HB3	2.09	0.82
3:A6:137:HIS:N	6:D3:603:SER:CB	2.40	0.82
3:A6:441:THR:HG21	6:D3:717:LEU:CA	2.04	0.82
11:I1:899:LEU:CD1	17:O1:230:ILE:C	2.47	0.82
11:I1:1029:LEU:CG	20:R1:171:ALA:C	2.43	0.82
11:I2:924:ILE:CB	15:M3:597:LYS:N	2.42	0.82
11:I2:989:GLY:N	15:M3:614:ASP:HB3	1.93	0.82
11:I2:1048:GLU:HG2	17:O3:288:GLU:HG3	1.59	0.82
11:I2:1054:ILE:C	17:O3:281:ALA:N	2.32	0.82
11:I3:1267:LEU:HD22	26:X1:497:ARG:NH1	1.92	0.82
11:I3:1276:GLN:HE21	26:X1:538:ILE:HG12	1.42	0.82
11:I4:819:MET:CG	26:X3:501:LYS:HD3	2.10	0.82
1:A3:1186:TRP:C	3:A6:641:ALA:HB3	2.00	0.82
2:A4:542:LEU:O	3:A6:361:ASP:C	2.17	0.82
2:A4:680:LEU:HB3	3:A6:98:LEU:HD11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:682:ARG:CB	3:A6:432:VAL:C	2.34	0.82
2:A4:778:PHE:C	3:A6:487:ASP:CG	2.25	0.82
2:A4:803:GLU:O	3:A6:382:SER:HA	0.94	0.82
2:A4:886:PHE:HZ	3:A6:176:LEU:CG	1.78	0.82
2:A4:946:LYS:HB2	4:B6:351:GLU:H	1.41	0.82
3:A6:1393:THR:N	28:Z4:913:ILE:N	2.27	0.82
8:F1:1265:GLN:O	17:O2:265:ASN:CB	2.27	0.82
9:G1:260:THR:C	17:O2:256:TYR:CE1	2.52	0.82
11:I1:976:ARG:N	20:R1:149:ARG:NH1	2.26	0.82
11:I2:1038:ILE:HD11	15:M3:621:ARG:CG	2.03	0.82
11:I2:1069:SER:HB2	16:N3:427:VAL:N	1.94	0.82
11:I2:1101:LEU:O	16:N3:432:TYR:OH	1.93	0.82
21:S2:1058:ILE:O	21:S2:1059:ASP:HB2	1.79	0.82
26:X4:159:ILE:HG12	26:X4:175:LEU:HB3	1.59	0.82
2:A2:869:ALA:O	6:D1:548:LEU:CD2	2.26	0.82
2:A2:909:LYS:N	6:D1:552:TYR:CE1	2.44	0.82
2:A2:1135:ARG:HH11	3:A5:147:LEU:CD2	1.91	0.82
2:A4:87:GLN:NE2	3:A6:390:SER:O	2.08	0.82
2:A4:550:VAL:HG22	3:A6:367:ASP:HB2	0.85	0.82
2:A4:721:ARG:N	3:A6:493:ALA:O	2.09	0.82
2:A4:949:PHE:HB3	4:B6:348:PRO:HD2	1.59	0.82
2:A4:978:ASP:O	6:D3:475:ALA:CA	2.26	0.82
2:A4:1054:SER:CB	6:D4:762:ARG:HE	1.90	0.82
3:A5:232:LEU:HD21	5:C2:739:MET:CA	2.10	0.82
3:A6:520:GLU:HB2	6:D3:635:ALA:HB1	0.84	0.82
9:G1:263:MET:HB3	17:O2:260:LEU:CD2	2.08	0.82
11:I1:984:GLU:HG2	15:M1:614:ASP:C	1.99	0.82
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB1	1.60	0.82
11:I1:1067:PHE:CD2	16:N1:432:TYR:N	2.40	0.82
11:I2:896:PRO:HB3	17:O3:233:THR:HA	1.59	0.82
11:I2:1029:LEU:HD13	16:N3:433:GLU:CD	1.96	0.82
11:I2:1046:HIS:HB2	17:O3:280:GLU:C	1.98	0.82
11:I2:1051:LYS:HE3	17:O3:289:ASP:H	1.44	0.82
11:I4:1277:LEU:HG	26:X3:517:ASP:HB3	1.59	0.82
1:A1:874:VAL:HG22	6:D3:272:VAL:HG11	1.60	0.82
2:A2:1167:CYS:HB3	4:B5:342:ARG:NE	1.95	0.82
1:A3:1091:VAL:HG23	6:D3:805:GLY:C	1.99	0.82
1:A3:1228:TYR:HD1	3:A6:551:GLN:CG	1.92	0.82
1:A3:1254:LEU:H	3:A6:635:ARG:N	1.78	0.82
2:A4:674:ASP:OD1	3:A6:99:ASP:HB2	1.79	0.82
2:A4:685:ARG:HG3	3:A6:404:LEU:HD23	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:754:HIS:H	3:A6:540:GLN:HE21	1.27	0.82
2:A4:934:TRP:HZ2	4:B6:350:GLU:CB	1.88	0.82
3:A5:187:THR:CA	5:C2:746:PRO:HD2	2.08	0.82
11:I1:883:ALA:CB	17:O1:243:LEU:HA	2.01	0.82
11:I1:911:PRO:C	15:M1:584:GLN:NE2	2.33	0.82
11:I1:1036:PRO:CD	15:M1:623:LEU:O	2.24	0.82
11:I1:1108:PRO:HG3	16:N1:443:GLU:HB3	1.10	0.82
11:I2:887:GLN:NE2	16:N3:393:ILE:C	2.15	0.82
11:I2:958:THR:N	16:N3:399:HIS:CD2	2.46	0.82
11:I2:977:ASN:HB2	20:R3:150:ASN:HB2	1.61	0.82
11:I3:1275:SER:HG	26:X1:522:MET:HG2	0.97	0.82
11:I4:1277:LEU:CG	26:X3:517:ASP:HB3	1.91	0.82
11:I4:1277:LEU:CD2	26:X3:517:ASP:CB	2.58	0.82
21:S4:1058:ILE:O	21:S4:1059:ASP:HB2	1.79	0.82
1:A1:1225:PRO:O	2:A2:728:LYS:HG2	1.80	0.82
2:A2:1149:THR:CB	3:A5:172:PRO:HD2	2.06	0.82
1:A3:835:THR:HG22	6:D1:302:PRO:HG2	1.61	0.82
1:A3:1236:GLN:HE21	3:A6:573:ARG:NE	1.77	0.82
1:A3:1250:PRO:C	3:A6:635:ARG:H	1.81	0.82
1:A3:1250:PRO:HG3	3:A6:635:ARG:HB3	1.60	0.82
2:A4:93:ASP:C	3:A6:361:ASP:HB3	2.00	0.82
2:A4:713:ILE:HG23	3:A6:403:ARG:NE	1.94	0.82
2:A4:869:ALA:CB	6:D3:583:ILE:HD13	2.06	0.82
3:A5:1093:THR:OG1	11:I5:37:GLU:HG3	1.78	0.82
3:A5:1094:ILE:HG21	11:I5:4:LEU:CB	1.84	0.82
8:F1:1266:MET:CA	17:O2:265:ASN:ND2	2.43	0.82
11:I1:990:GLU:CB	15:M1:611:LYS:HE3	2.08	0.82
11:I1:1017:VAL:H	16:N1:411:GLN:C	1.80	0.82
11:I2:966:TRP:HZ3	20:R3:167:GLN:CB	1.88	0.82
11:I2:966:TRP:NE1	20:R3:154:ALA:O	2.01	0.82
11:I2:990:GLU:O	17:O3:271:GLU:CG	2.27	0.82
2:A2:1148:ARG:NH2	3:A5:169:TYR:HA	1.94	0.82
1:A3:1227:PRO:HG2	3:A6:682:ARG:HD3	1.60	0.82
1:A3:1255:LEU:H	3:A6:634:ASP:HB3	1.17	0.82
2:A4:779:ASP:OD2	3:A6:519:LEU:HB2	1.80	0.82
2:A4:823:VAL:HG12	3:A6:167:TRP:CZ2	2.15	0.82
2:A4:946:LYS:HD2	4:B6:350:GLU:OE2	1.80	0.82
2:A4:1098:ARG:NH2	6:D4:709:ARG:NH2	2.20	0.82
3:A5:1029:ILE:CA	11:I5:69:GLY:C	2.47	0.82
3:A6:842:ARG:HD2	8:F2:776:HIS:CE1	2.13	0.82
8:F2:1049:GLN:HE22	17:O4:237:PRO:HB3	1.06	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:255:LEU:HD13	17:O2:258:GLU:HG2	1.60	0.82
11:I1:837:MET:HE3	17:O1:239:GLN:O	1.79	0.82
11:I1:882:LYS:N	17:O1:246:LEU:HA	1.95	0.82
11:I1:957:SER:HA	20:R1:168:LEU:HG	1.62	0.82
11:I1:1042:LEU:HB2	20:R1:170:LEU:HD12	1.58	0.82
11:I1:1043:LEU:HA	16:N1:430:ARG:CB	2.07	0.82
11:I1:1049:LEU:HB3	17:O1:291:ASP:HB2	1.61	0.82
11:I1:1052:LEU:CD1	17:O1:287:LEU:HD11	2.09	0.82
11:I1:1370:VAL:HG22	12:J1:259:THR:HG21	1.61	0.82
11:I2:943:ALA:CA	17:O3:260:LEU:HD13	2.00	0.82
11:I2:963:LEU:O	20:R3:153:GLN:NE2	2.13	0.82
11:I2:1052:LEU:CD1	16:N3:438:LEU:HD21	2.10	0.82
11:I2:1055:GLU:O	17:O3:278:GLU:CB	2.26	0.82
11:I2:1109:LEU:CD2	16:N3:438:LEU:CD2	2.58	0.82
11:I2:1113:LEU:HD22	17:O3:282:LYS:CE	2.07	0.82
11:I5:1276:GLN:O	26:X2:518:ASP:CA	2.27	0.82
1:A1:834:GLU:HB3	6:D3:302:PRO:CG	2.05	0.82
1:A1:1226:LEU:H	2:A2:725:GLU:HG3	1.42	0.82
2:A2:876:ARG:HD2	6:D1:558:LYS:HB3	1.59	0.82
1:A3:1188:ASN:HA	3:A6:723:PHE:CZ	2.14	0.82
2:A4:614:ALA:HB2	3:A6:507:ALA:CB	2.10	0.82
2:A4:676:LEU:HD12	3:A6:95:TYR:CE2	2.14	0.82
2:A4:898:LEU:O	4:B6:342:ARG:N	2.13	0.82
2:A4:1151:THR:N	5:C4:733:LEU:HA	1.95	0.82
3:A5:232:LEU:HG	5:C2:739:MET:H	1.43	0.82
3:A5:995:VAL:O	11:I5:58:ALA:HA	1.78	0.82
3:A5:1395:LYS:CB	28:Z2:870:ILE:HA	2.08	0.82
6:D6:800:PRO:HG2	22:T3:765:LYS:HG3	1.57	0.82
6:D7:176:SER:HB3	11:I3:95:LYS:NZ	1.93	0.82
11:I1:1032:THR:C	15:M1:627:LEU:CD2	2.47	0.82
11:I1:1043:LEU:HD23	16:N1:430:ARG:HB2	1.62	0.82
11:I2:894:VAL:HB	17:O3:239:GLN:H	0.66	0.82
11:I2:931:VAL:C	15:M3:601:ASP:O	2.18	0.82
11:I2:950:LEU:CD2	16:N3:406:HIS:CD2	2.63	0.82
11:I2:964:SER:O	20:R3:153:GLN:NE2	2.12	0.82
21:S1:597:ILE:CB	21:S2:1119:LEU:CA	2.57	0.82
21:S1:671:ALA:CB	21:S2:1146:ALA:N	2.43	0.82
2:A2:776:MET:CG	6:D1:678:GLY:O	2.26	0.82
2:A2:875:LEU:CD2	6:D1:566:PHE:C	2.47	0.82
2:A2:1157:TYR:HB3	3:A5:133:LYS:HB2	1.62	0.82
1:A3:1226:LEU:CD2	3:A6:550:VAL:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1235:ILE:HD11	3:A6:617:VAL:CG2	2.09	0.82
1:A3:1261:TYR:CG	3:A6:621:GLN:HG2	0.65	0.82
1:A3:1274:ASP:CA	3:A6:556:PRO:O	2.28	0.82
2:A4:671:SER:C	3:A6:100:SER:CB	2.36	0.82
2:A4:682:ARG:HH21	3:A6:105:GLY:CA	1.64	0.82
2:A4:736:PRO:O	3:A6:89:LEU:HD23	1.79	0.82
2:A4:780:GLU:HB3	3:A6:564:ASN:HD21	1.37	0.82
2:A4:908:LEU:C	6:D3:552:TYR:CZ	2.54	0.82
3:A6:1399:ARG:HH21	28:Z4:968:ARG:CB	1.93	0.82
8:F2:1090:PRO:CG	17:O4:245:GLU:CD	2.33	0.82
11:I1:880:MET:HG3	17:O1:247:TRP:CA	2.10	0.82
11:I1:1609:GLY:HA3	12:J2:295:TYR:CD1	2.15	0.82
11:I2:890:TYR:CB	17:O3:242:ARG:CB	2.58	0.82
11:I2:936:LYS:HE3	15:M3:612:PRO:CG	2.10	0.82
11:I2:1043:LEU:HA	16:N3:430:ARG:CD	2.10	0.82
11:I2:1106:LYS:O	16:N3:440:GLU:HA	1.05	0.82
11:I2:1109:LEU:HA	17:O3:290:TYR:CZ	2.14	0.82
11:I3:1271:GLU:O	26:X1:525:ILE:CG2	2.18	0.82
23:U3:278:GLN:HB3	25:W4:192:GLN:OE1	1.80	0.82
2:A2:908:LEU:HD23	6:D1:601:PHE:CB	2.09	0.81
2:A2:1151:THR:HG23	5:C2:734:VAL:CA	2.09	0.81
1:A3:1220:PRO:CB	2:A4:732:GLN:OE1	2.27	0.81
1:A3:1281:LEU:HD13	3:A6:577:ASP:CB	2.09	0.81
1:A3:1282:PHE:CG	3:A6:625:LEU:O	2.33	0.81
1:A3:1311:ARG:CD	3:A6:712:THR:HA	2.09	0.81
2:A4:90:GLN:HB2	3:A6:407:SER:OG	1.80	0.81
2:A4:643:ALA:HA	3:A6:501:VAL:CG1	2.10	0.81
2:A4:701:ILE:HG13	3:A6:466:ALA:N	1.71	0.81
2:A4:983:LEU:CG	6:D3:528:PHE:HE1	1.60	0.81
3:A6:1151:THR:CA	5:C6:733:LEU:CD1	2.57	0.81
11:I1:833:PHE:CD2	17:O1:237:PRO:C	2.53	0.81
11:I1:898:VAL:CG2	17:O1:235:ASN:O	2.28	0.81
11:I1:976:ARG:HB2	20:R1:149:ARG:HB3	1.56	0.81
11:I1:1067:PHE:CD1	16:N1:433:GLU:N	2.48	0.81
11:I1:1070:LEU:CA	16:N1:429:GLU:HG2	2.08	0.81
11:I2:885:GLU:N	16:N3:397:GLU:HG2	1.93	0.81
11:I2:915:ALA:O	15:M3:585:LEU:CB	2.24	0.81
11:I2:1037:THR:HG21	20:R3:173:LEU:CD2	2.09	0.81
11:I5:1370:VAL:HG22	12:J5:259:THR:HG21	1.61	0.81
21:S1:1058:ILE:O	21:S1:1059:ASP:HB2	1.79	0.81
26:X2:156:GLU:OE2	26:X2:214:ARG:NH1	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1197:ALA:HB1	2:A2:728:LYS:HZ2	1.42	0.81
2:A2:776:MET:SD	6:D1:678:GLY:O	2.37	0.81
2:A2:865:ALA:O	6:D1:608:ILE:CD1	2.29	0.81
1:A3:1236:GLN:CA	3:A6:578:ILE:O	2.26	0.81
1:A3:1236:GLN:NE2	3:A6:573:ARG:CZ	2.44	0.81
1:A3:1391:ARG:C	3:A6:227:SER:OG	2.17	0.81
2:A4:544:PHE:CD1	3:A6:363:ALA:HB1	2.12	0.81
2:A4:713:ILE:CD1	3:A6:462:LEU:CD1	2.57	0.81
2:A4:781:ARG:HH22	6:D3:633:LYS:HD2	1.42	0.81
2:A4:896:ALA:O	3:A6:178:GLY:HA2	1.80	0.81
3:A5:233:THR:C	5:C2:738:ASP:H	1.79	0.81
3:A6:485:ASN:CB	6:D3:674:TYR:N	2.37	0.81
8:F1:1202:TYR:HD1	17:O2:252:VAL:HG21	1.44	0.81
8:F2:1089:PRO:O	17:O4:245:GLU:CA	2.29	0.81
11:I1:846:ILE:HD12	15:M1:594:LYS:HE3	0.86	0.81
11:I1:880:MET:HG3	17:O1:247:TRP:C	1.99	0.81
11:I1:915:ALA:CB	15:M1:582:THR:O	2.22	0.81
11:I1:950:LEU:HB3	16:N1:407:ALA:H	1.33	0.81
11:I2:882:LYS:HG3	17:O3:249:ARG:HA	1.60	0.81
11:I2:1039:ALA:HB3	20:R3:170:LEU:N	1.95	0.81
11:I5:1279:THR:CG2	26:X2:520:GLU:CA	2.57	0.81
21:S1:680:PRO:O	21:S2:1127:GLN:OE1	1.96	0.81
21:S3:176:MET:HE3	21:S3:232:LEU:HD13	1.63	0.81
1:A1:1222:ALA:CA	2:A2:615:LEU:CD1	2.53	0.81
2:A2:779:ASP:HB3	6:D1:679:ILE:O	1.79	0.81
2:A2:989:MSE:SE	6:D1:241:ALA:N	2.63	0.81
2:A2:1094:ILE:CG1	6:D2:759:GLN:NE2	2.40	0.81
2:A2:1150:LEU:HG	5:C2:731:LYS:HA	1.62	0.81
1:A3:832:ASN:CG	6:D1:302:PRO:HB3	2.00	0.81
1:A3:1189:LEU:CD2	3:A6:579:PHE:CZ	2.62	0.81
1:A3:1201:ARG:HG3	3:A6:549:ALA:H	1.41	0.81
1:A3:1226:LEU:HD23	3:A6:546:ASN:O	1.78	0.81
1:A3:1248:ILE:H	3:A6:587:VAL:CG1	1.94	0.81
2:A4:88:THR:N	3:A6:392:LEU:HA	1.96	0.81
2:A4:553:ASP:OD2	3:A6:432:VAL:CG1	2.28	0.81
2:A4:556:PRO:CG	3:A6:454:GLN:HB2	2.10	0.81
2:A4:677:ALA:C	3:A6:98:LEU:HG	2.01	0.81
2:A4:692:VAL:HG11	3:A6:467:LEU:CG	2.10	0.81
2:A4:772:SER:C	3:A6:489:LEU:CD1	2.43	0.81
2:A4:780:GLU:CA	3:A6:524:ARG:CB	2.56	0.81
2:A4:897:ASN:HB2	3:A6:166:LEU:O	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:975:GLU:N	6:D3:499:LEU:CG	2.43	0.81
2:A4:1151:THR:HG23	5:C4:734:VAL:CA	2.10	0.81
3:A5:1098:ARG:HD2	11:I5:29:GLN:CD	2.00	0.81
3:A6:442:ARG:NH1	6:D3:695:LEU:CD1	2.44	0.81
3:A6:1395:LYS:N	28:Z4:913:ILE:HA	1.96	0.81
3:A6:1409:MSE:CA	26:X4:686:ASP:CB	2.57	0.81
8:F1:1094:GLY:C	17:O2:237:PRO:HB3	1.99	0.81
8:F1:1095:TYR:N	17:O2:237:PRO:HB3	1.95	0.81
8:F1:1203:TRP:HH2	17:O2:248:SER:HA	0.99	0.81
11:I1:843:GLU:OE1	15:M1:590:LYS:CD	2.27	0.81
11:I1:872:SER:O	17:O1:251:ILE:CG2	2.28	0.81
11:I1:912:VAL:H	15:M1:584:GLN:NE2	1.76	0.81
11:I1:919:ALA:CB	16:N1:392:THR:HG1	1.91	0.81
11:I1:1029:LEU:CD2	20:R1:174:ARG:HG3	2.07	0.81
11:I1:1035:GLN:CA	16:N1:441:PHE:CZ	2.60	0.81
11:I1:1041:GLN:H	15:M1:620:VAL:HG22	1.44	0.81
11:I1:1103:LEU:HD11	20:R1:175:GLN:HG2	1.51	0.81
11:I1:1106:LYS:CA	16:N1:440:GLU:OE2	2.28	0.81
11:I1:1114:VAL:HG22	16:N1:435:ALA:HB3	1.62	0.81
11:I1:1602:PHE:HD1	11:I2:1666:THR:HG21	1.42	0.81
11:I1:1672:VAL:CG2	11:I2:1611:PHE:HB3	2.08	0.81
11:I1:1673:VAL:N	11:I2:1611:PHE:CA	2.42	0.81
11:I2:873:ILE:HG23	17:O3:254:ARG:HG2	1.61	0.81
11:I2:889:THR:HB	17:O3:242:ARG:HD3	0.85	0.81
11:I2:921:GLU:H	15:M3:592:LEU:HG	1.00	0.81
11:I2:946:THR:H	17:O3:260:LEU:H	1.19	0.81
11:I2:980:ILE:HA	15:M3:618:GLN:CA	2.11	0.81
11:I2:1033:PRO:CA	20:R3:177:LEU:HG	2.08	0.81
11:I3:1270:LYS:C	26:X1:529:TRP:H	1.84	0.81
17:O3:162:LYS:CA	18:P3:315:GLU:OE1	2.28	0.81
26:X3:156:GLU:OE2	26:X3:214:ARG:NH1	2.13	0.81
1:A1:1332:ARG:O	6:D1:637:LYS:CG	2.29	0.81
2:A2:908:LEU:HD23	6:D1:601:PHE:C	2.00	0.81
2:A2:1142:PHE:CD1	3:A5:566:GLY:HA2	2.15	0.81
2:A2:1151:THR:N	5:C2:733:LEU:HA	1.95	0.81
1:A3:1226:LEU:CB	3:A6:551:GLN:HG3	2.10	0.81
1:A3:1238:ILE:HG21	3:A6:640:LEU:HD13	1.63	0.81
1:A3:1248:ILE:HD13	3:A6:587:VAL:HA	1.60	0.81
1:A3:1274:ASP:C	3:A6:556:PRO:HD2	1.95	0.81
2:A4:679:TYR:CD1	3:A6:510:TYR:N	2.22	0.81
2:A4:683:LEU:CB	3:A6:403:ARG:CZ	2.57	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:713:ILE:CB	3:A6:462:LEU:HD13	2.06	0.81
2:A4:792:VAL:HB	3:A6:187:THR:OG1	1.80	0.81
2:A4:804:GLN:CD	3:A6:317:GLY:C	2.39	0.81
2:A4:973:GLU:HB3	6:D3:498:GLU:HB2	1.62	0.81
3:A5:1395:LYS:HE3	28:Z2:868:GLN:O	1.78	0.81
3:A6:1403:MSE:SE	28:Z4:964:LEU:CA	2.78	0.81
9:G1:263:MET:HE1	16:N2:408:MET:HA	1.62	0.81
11:I1:1014:ASN:N	16:N1:411:GLN:O	2.13	0.81
11:I1:1037:THR:HG23	20:R1:169:GLY:C	2.00	0.81
11:I1:1610:VAL:HG22	11:I2:1673:VAL:CG1	2.02	0.81
11:I2:947:LEU:HD21	16:N3:411:GLN:HG3	1.62	0.81
11:I2:948:ALA:O	17:O3:253:LEU:HB3	1.79	0.81
11:I2:1020:ALA:CB	16:N3:407:ALA:CA	2.47	0.81
11:I2:1043:LEU:HA	16:N3:430:ARG:HD2	1.62	0.81
11:I2:1045:PHE:CZ	16:N3:434:LEU:CB	2.43	0.81
18:P1:280:THR:N	18:P4:322:LYS:HD3	1.95	0.81
21:S1:176:MET:HE2	21:S1:212:LEU:HD11	1.60	0.81
26:X1:156:GLU:OE2	26:X1:214:ARG:NH1	2.13	0.81
2:A2:825:ARG:HH12	6:D1:679:ILE:CD1	1.92	0.81
1:A3:1192:GLN:CA	3:A6:645:PHE:CD2	2.64	0.81
2:A4:533:ALA:CB	3:A6:370:PRO:CG	2.53	0.81
2:A4:861:GLN:NE2	6:D3:607:PRO:HA	1.96	0.81
3:A5:1027:HIS:HE1	11:I5:65:LYS:CB	1.53	0.81
3:A5:1365:VAL:CG2	28:Z2:841:ALA:HB3	2.09	0.81
3:A6:1416:ARG:CG	28:Z4:998:LYS:C	2.43	0.81
6:D3:743:HIS:HD2	11:I2:1528:ARG:HD2	1.43	0.81
11:I1:980:ILE:HB	15:M1:618:GLN:CA	2.09	0.81
11:I1:1023:ASP:CB	16:N1:405:ALA:CB	2.58	0.81
11:I2:1058:GLY:O	17:O3:277:GLU:HA	1.81	0.81
11:I3:1271:GLU:OE2	26:X1:504:ILE:HD12	1.79	0.81
17:O3:147:ALA:CB	18:P3:328:PRO:HG2	2.08	0.81
23:U3:278:GLN:HE21	25:W4:189:SER:N	1.73	0.81
2:A2:780:GLU:H	6:D1:678:GLY:CA	1.93	0.81
2:A2:974:PRO:CD	6:D1:205:LEU:CG	2.54	0.81
2:A2:982:THR:CG2	6:D1:494:LEU:HA	2.07	0.81
1:A3:1236:GLN:N	3:A6:581:LYS:H	1.78	0.81
1:A3:1311:ARG:HD2	3:A6:715:GLU:OE1	1.80	0.81
2:A4:685:ARG:NH2	3:A6:362:PHE:CE1	2.48	0.81
2:A4:796:GLN:H	3:A6:249:SER:HB3	0.66	0.81
2:A4:861:GLN:HA	6:D3:607:PRO:CB	2.11	0.81
2:A4:934:TRP:HZ2	4:B6:350:GLU:HG2	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:970:PHE:HB3	6:D3:498:GLU:HB3	1.60	0.81
3:A5:996:ASN:HB3	11:I5:59:LEU:N	1.94	0.81
3:A6:520:GLU:HB3	6:D3:635:ALA:HB1	1.61	0.81
3:A6:1409:MSE:N	26:X4:686:ASP:CB	2.43	0.81
4:B5:344:ALA:HA	5:C2:737:LYS:HZ3	1.44	0.81
6:D2:301:LEU:HD12	6:D2:301:LEU:O	1.81	0.81
6:D7:301:LEU:HD12	6:D7:301:LEU:O	1.81	0.81
8:F1:1138:TRP:CD1	17:O2:244:GLU:CG	2.52	0.81
9:G1:263:MET:HA	16:N2:411:GLN:CG	2.09	0.81
11:I1:931:VAL:CG2	15:M1:603:SER:OG	2.27	0.81
11:I1:1033:PRO:C	16:N1:441:PHE:CE1	2.52	0.81
11:I1:1104:LEU:O	16:N1:436:ALA:HB1	1.79	0.81
11:I2:880:MET:CA	17:O3:246:LEU:O	2.28	0.81
11:I2:895:ARG:CD	17:O3:234:LEU:CD1	2.59	0.81
11:I2:997:SER:HB2	17:O3:270:THR:CG2	2.09	0.81
11:I2:1109:LEU:CB	17:O3:290:TYR:CZ	2.61	0.81
21:S3:686:ALA:HB3	21:S4:1153:GLN:N	1.95	0.81
2:A2:970:PHE:O	6:D1:202:GLN:CG	2.28	0.81
2:A2:1149:THR:CG2	3:A5:172:PRO:CD	2.04	0.81
2:A2:1155:ASN:CB	3:A5:175:GLU:CG	2.58	0.81
1:A3:1088:ASN:HA	6:D3:808:ASN:CG	2.00	0.81
1:A3:1392:ARG:N	3:A6:225:THR:OG1	2.13	0.81
1:A3:1393:THR:HG1	3:A6:228:GLY:C	1.83	0.81
2:A4:642:ARG:NH1	3:A6:602:ILE:O	2.14	0.81
2:A4:676:LEU:CD1	3:A6:95:TYR:HE2	1.93	0.81
2:A4:759:ALA:HB3	3:A6:388:GLU:CB	2.11	0.81
2:A4:826:ASN:HD22	3:A6:565:THR:HB	1.42	0.81
2:A4:859:GLN:CB	3:A6:134:VAL:H	1.94	0.81
3:A5:232:LEU:HD12	5:C2:739:MET:CG	2.03	0.81
3:A5:1029:ILE:HG22	11:I5:70:GLU:C	2.01	0.81
5:C1:732:LYS:HZ1	11:I1:1225:LYS:HB3	1.45	0.81
6:D7:480:PHE:HE2	11:I3:181:GLN:O	1.62	0.81
8:F1:1265:GLN:OE1	17:O2:258:GLU:C	2.19	0.81
11:I1:833:PHE:CD2	17:O1:237:PRO:O	2.33	0.81
11:I2:900:ARG:CG	17:O3:232:LYS:CE	2.58	0.81
11:I2:989:GLY:N	15:M3:614:ASP:CG	2.33	0.81
11:I2:1101:LEU:O	16:N3:432:TYR:CZ	2.25	0.81
11:I3:1270:LYS:HZ3	26:X1:530:ARG:HG2	1.41	0.81
17:O3:101:ASN:HB3	18:P3:326:GLN:HE21	0.65	0.81
26:X4:156:GLU:OE2	26:X4:214:ARG:NH1	2.13	0.81
2:A4:623:SER:OG	3:A6:453:SER:OG	1.89	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:908:LEU:CA	6:D3:552:TYR:CZ	2.64	0.81
2:A4:949:PHE:CA	4:B6:348:PRO:CD	2.58	0.81
3:A6:842:ARG:HD2	8:F2:776:HIS:NE2	1.96	0.81
3:A6:1403:MSE:HE1	28:Z4:964:LEU:CB	1.75	0.81
6:D7:176:SER:HB2	11:I3:95:LYS:HZ1	1.44	0.81
11:I1:961:ARG:O	20:R1:165:SER:HB3	1.80	0.81
11:I1:1108:PRO:HG3	16:N1:443:GLU:C	2.00	0.81
11:I2:947:LEU:N	17:O3:260:LEU:HD23	1.94	0.81
11:I2:962:ILE:HG21	20:R3:166:LEU:CG	2.06	0.81
11:I2:978:LYS:HZ2	20:R3:155:GLU:N	1.73	0.81
11:I2:1048:GLU:N	17:O3:287:LEU:HD22	1.96	0.81
11:I2:1055:GLU:N	17:O3:278:GLU:CA	2.40	0.81
11:I2:1370:VAL:HG22	12:J2:259:THR:HG21	1.61	0.81
11:I3:1275:SER:OG	26:X1:522:MET:CB	2.28	0.81
21:S2:1097:LYS:HZ3	21:S2:1101:PHE:HE1	1.23	0.81
21:S4:1143:VAL:HA	21:S4:1146:ALA:HB3	1.63	0.81
1:A1:1223:GLU:CG	2:A2:734:LEU:HD11	2.10	0.81
2:A2:869:ALA:HA	6:D1:583:ILE:HG21	1.60	0.81
2:A2:986:THR:CB	6:D1:497:PHE:CE1	2.58	0.81
2:A2:1149:THR:N	3:A5:172:PRO:N	2.26	0.81
1:A3:1130:ARG:HH21	3:A6:651:GLN:CA	1.93	0.81
2:A4:610:THR:H	3:A6:103:ARG:HH12	1.26	0.81
2:A4:724:LEU:HG	3:A6:496:THR:N	1.93	0.81
2:A4:727:ASN:ND2	3:A6:605:TYR:CG	2.49	0.81
2:A4:789:LEU:HD22	3:A6:146:LYS:HB2	1.19	0.81
2:A4:878:LEU:CA	6:D3:567:LEU:HD13	2.09	0.81
2:A4:909:LYS:HG2	6:D3:552:TYR:CE1	2.14	0.81
2:A4:949:PHE:N	4:B6:348:PRO:HD2	1.96	0.81
2:A4:951:GLU:OE2	3:A6:235:TYR:CE2	2.33	0.81
2:A4:975:GLU:HA	6:D3:499:LEU:CB	2.04	0.81
3:A5:175:GLU:CG	5:C2:733:LEU:CD1	2.59	0.81
3:A5:994:VAL:O	11:I5:61:LYS:CD	2.27	0.81
3:A5:1030:THR:CA	11:I5:71:GLU:O	2.28	0.81
3:A5:1399:ARG:HH12	28:Z2:909:LEU:CB	1.93	0.81
3:A6:136:GLU:HG2	6:D3:605:THR:HG23	1.60	0.81
8:F1:1205:TRP:CD1	17:O2:251:ILE:HG23	2.15	0.81
11:I1:877:ILE:HB	17:O1:253:LEU:N	1.95	0.81
11:I1:976:ARG:HH12	15:M1:622:VAL:CA	1.93	0.81
11:I2:877:ILE:CG1	17:O3:254:ARG:HB2	1.31	0.81
11:I2:956:ILE:HG21	15:M3:600:ASN:CA	2.10	0.81
11:I2:1040:HIS:CG	16:N3:434:LEU:CD1	2.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:293:ASN:HB2	21:S2:310:TRP:O	1.81	0.81
21:S3:293:ASN:HB2	21:S3:310:TRP:O	1.81	0.81
21:S3:1036:ILE:HD12	21:S3:1073:ILE:HG22	1.62	0.81
2:A2:779:ASP:C	6:D1:679:ILE:H	1.84	0.81
2:A2:781:ARG:CG	6:D1:673:ARG:CB	2.50	0.81
2:A2:1124:ARG:HD2	3:A5:136:GLU:OE2	1.81	0.81
1:A3:1187:ASN:C	3:A6:723:PHE:CE1	2.54	0.81
1:A3:1204:TRP:CZ3	3:A6:95:TYR:O	2.17	0.81
1:A3:1248:ILE:N	3:A6:587:VAL:HG13	1.95	0.81
1:A3:1261:TYR:CE2	3:A6:679:TYR:CZ	2.69	0.81
1:A3:1265:ASN:N	3:A6:716:ASN:CG	2.07	0.81
2:A4:93:ASP:O	3:A6:361:ASP:CB	2.29	0.81
2:A4:172:PRO:HB3	6:D3:781:ARG:CD	2.11	0.81
2:A4:611:ILE:HG23	3:A6:508:LEU:HG	0.81	0.81
2:A4:685:ARG:HH11	3:A6:432:VAL:HG23	1.42	0.81
2:A4:721:ARG:HG3	3:A6:494:PRO:CD	2.11	0.81
2:A4:763:LEU:CG	3:A6:470:ARG:HD3	2.10	0.81
2:A4:773:PHE:CD1	3:A6:469:PHE:HZ	1.98	0.81
2:A4:821:ALA:CB	3:A6:146:LYS:C	2.37	0.81
2:A4:886:PHE:O	3:A6:175:GLU:CG	2.29	0.81
2:A4:985:ALA:HB3	6:D3:497:PHE:HA	1.61	0.81
2:A4:988:ARG:CD	6:D3:500:LYS:CG	2.58	0.81
3:A5:993:ASN:CA	11:I5:57:GLU:CG	2.47	0.81
3:A6:444:ARG:HG3	6:D3:737:PHE:CZ	2.16	0.81
11:I1:884:LEU:CD2	16:N1:396:ILE:HB	2.04	0.81
11:I1:967:SER:HA	20:R1:153:GLN:OE1	1.81	0.81
11:I1:992:ILE:HG21	15:M1:607:SER:CB	1.89	0.81
11:I1:1066:LEU:H	16:N1:430:ARG:NE	1.78	0.81
11:I2:890:TYR:HB2	17:O3:242:ARG:H	1.46	0.81
11:I2:1109:LEU:CB	16:N3:438:LEU:CD2	2.58	0.81
11:I3:1273:GLU:H	26:X1:527:VAL:N	1.78	0.81
1:A3:1188:ASN:N	3:A6:723:PHE:CE1	2.49	0.80
1:A3:1261:TYR:CD1	3:A6:621:GLN:CB	0.86	0.80
2:A4:576:VAL:HG23	3:A6:453:SER:O	1.81	0.80
2:A4:671:SER:HB2	3:A6:505:ALA:HB1	1.62	0.80
2:A4:692:VAL:HG23	3:A6:379:VAL:O	1.81	0.80
2:A4:718:GLU:HB2	3:A6:514:GLY:HA2	1.61	0.80
2:A4:879:LEU:N	6:D3:567:LEU:HD11	1.94	0.80
2:A4:1150:LEU:HG	5:C4:731:LYS:HA	1.62	0.80
11:I1:797:LEU:HD13	17:O1:245:GLU:HG3	1.62	0.80
11:I1:911:PRO:CA	15:M1:584:GLN:HE22	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:915:ALA:HB2	15:M1:581:LEU:O	1.81	0.80
11:I2:999:SER:CB	17:O3:264:ILE:HG21	2.11	0.80
1:A1:777:LEU:CD1	1:A1:822:ILE:HD11	2.12	0.80
2:A4:80:LYS:CE	3:A6:387:THR:CG2	2.50	0.80
2:A4:538:ALA:HB1	3:A6:359:LEU:O	1.81	0.80
2:A4:548:LEU:HB2	3:A6:105:GLY:CA	2.11	0.80
2:A4:610:THR:HG22	3:A6:507:ALA:CA	2.01	0.80
2:A4:790:ASP:C	3:A6:187:THR:HG22	2.01	0.80
2:A4:825:ARG:CA	3:A6:138:LEU:HD13	2.06	0.80
2:A4:859:GLN:HG2	3:A6:176:LEU:CD2	2.09	0.80
2:A4:955:CYS:H	4:B6:345:LYS:CB	1.94	0.80
3:A5:1098:ARG:CD	11:I5:29:GLN:CD	2.49	0.80
11:I1:940:LEU:CB	17:O1:259:ASP:O	2.29	0.80
11:I1:951:LYS:HG3	16:N1:400:LEU:C	1.99	0.80
11:I1:1673:VAL:H	11:I2:1611:PHE:HA	1.46	0.80
11:I2:951:LYS:HG3	16:N3:403:VAL:HB	1.62	0.80
11:I2:983:LEU:CD1	15:M3:621:ARG:NH2	2.44	0.80
11:I3:1277:LEU:HD21	26:X1:513:PHE:CG	2.16	0.80
18:P2:319:VAL:HG22	18:P3:278:ASN:ND2	1.95	0.80
21:S1:680:PRO:HA	21:S2:1127:GLN:HE21	1.43	0.80
21:S3:684:THR:CA	21:S4:1150:TYR:H	1.93	0.80
21:S4:1036:ILE:HD12	21:S4:1073:ILE:HG22	1.62	0.80
2:A2:1155:ASN:OD1	3:A5:175:GLU:HG2	1.79	0.80
1:A3:1086:LYS:HB3	6:D3:798:MET:HA	0.86	0.80
2:A4:542:LEU:O	3:A6:361:ASP:HA	1.81	0.80
2:A4:702:SER:OG	3:A6:379:VAL:CG1	2.10	0.80
2:A4:799:ASP:OD1	3:A6:250:PHE:HE2	1.63	0.80
2:A4:861:GLN:NE2	6:D3:607:PRO:CA	2.43	0.80
2:A4:949:PHE:C	4:B6:348:PRO:HD3	2.02	0.80
3:A5:153:ILE:HB	5:C2:739:MET:HE1	1.61	0.80
3:A5:160:ILE:HD12	5:C2:743:LEU:HG	1.62	0.80
3:A5:777:LEU:CD1	3:A5:822:ILE:HD11	2.12	0.80
3:A5:1313:LYS:CB	28:Z2:830:LEU:O	2.29	0.80
3:A5:1416:ARG:O	28:Z2:963:LYS:HA	1.82	0.80
8:F1:1264:ARG:HH22	17:O2:264:ILE:HD13	1.44	0.80
11:I1:998:ALA:CB	17:O1:267:ALA:HB2	2.12	0.80
11:I1:1052:LEU:HD23	16:N1:434:LEU:CD1	2.11	0.80
11:I1:1665:LEU:CB	11:I2:1667:GLN:CG	2.53	0.80
11:I1:1666:THR:CG2	11:I2:1602:PHE:HD1	1.95	0.80
11:I1:1669:ARG:CA	11:I2:1664:PHE:HZ	1.69	0.80
11:I1:1677:LYS:CE	11:I2:1543:LEU:HD13	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:939:ASN:N	17:O3:261:LYS:O	2.09	0.80
11:I2:950:LEU:CD1	16:N3:410:MET:CE	2.59	0.80
11:I2:963:LEU:N	20:R3:165:SER:OG	1.83	0.80
11:I2:979:ALA:HB1	20:R3:167:GLN:HE22	1.45	0.80
11:I2:1021:ILE:CD1	16:N3:410:MET:HE2	2.11	0.80
23:U4:314:ILE:HG22	23:U4:315:LEU:HG	1.63	0.80
1:A1:1200:ARG:HB3	2:A2:727:ASN:C	2.02	0.80
1:A1:1402:ASP:N	2:A2:884:ARG:HH12	1.75	0.80
2:A2:864:ARG:HH12	6:D1:610:ASN:ND2	1.75	0.80
2:A2:970:PHE:C	6:D1:202:GLN:CG	2.50	0.80
2:A2:972:GLY:N	6:D1:204:ASN:CA	2.12	0.80
2:A2:980:ARG:HB2	6:D1:526:LEU:CB	2.11	0.80
2:A2:980:ARG:HB2	6:D1:526:LEU:HB3	1.60	0.80
1:A3:1187:ASN:OD1	3:A6:619:CYS:HA	1.82	0.80
1:A3:1229:VAL:HG13	3:A6:574:ARG:CA	2.10	0.80
2:A4:704:THR:O	3:A6:462:LEU:O	1.97	0.80
2:A4:988:ARG:NH2	6:D3:499:LEU:C	2.34	0.80
3:A5:1369:ILE:HG21	28:Z2:830:LEU:C	1.55	0.80
3:A6:486:GLN:CB	6:D3:675:ARG:HG3	1.87	0.80
9:G1:253:SER:OG	15:M2:601:ASP:CG	2.19	0.80
11:I1:898:VAL:HG11	17:O1:235:ASN:O	1.78	0.80
11:I1:914:ASN:HB2	15:M1:588:MET:H	0.93	0.80
11:I1:937:TYR:HB3	17:O1:258:GLU:CB	2.11	0.80
11:I1:981:VAL:HG11	20:R1:151:LYS:HB3	1.63	0.80
11:I1:1013:GLU:HB2	16:N1:411:GLN:OE1	1.79	0.80
11:I2:1052:LEU:HD22	16:N3:438:LEU:HD21	1.60	0.80
21:S2:1120:PRO:HD3	21:S2:1155:GLN:HE22	1.41	0.80
1:A1:1226:LEU:H	2:A2:725:GLU:CD	1.84	0.80
2:A2:235:TYR:CZ	4:B2:347:LEU:HD12	2.17	0.80
2:A2:965:LYS:CA	6:D1:199:GLY:HA2	1.90	0.80
2:A2:974:PRO:HD3	6:D1:205:LEU:CG	2.12	0.80
1:A3:1052:THR:CG2	6:D3:812:VAL:O	2.27	0.80
1:A3:1187:ASN:OD1	3:A6:618:ALA:O	1.99	0.80
1:A3:1204:TRP:CG	3:A6:95:TYR:CD1	2.54	0.80
1:A3:1236:GLN:OE1	3:A6:578:ILE:HG12	1.80	0.80
2:A4:496:THR:CG2	3:A6:366:ALA:HB1	2.09	0.80
2:A4:611:ILE:HB	3:A6:508:LEU:CB	1.95	0.80
2:A4:674:ASP:HA	3:A6:99:ASP:N	1.97	0.80
2:A4:779:ASP:CB	3:A6:487:ASP:H	1.93	0.80
2:A4:801:THR:OG1	3:A6:381:LEU:CB	2.29	0.80
2:A4:896:ALA:O	3:A6:165:PHE:CE1	2.34	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:954:ILE:N	4:B6:345:LYS:CA	2.41	0.80
2:A4:955:CYS:H	4:B6:345:LYS:HB2	1.46	0.80
2:A4:982:THR:CB	6:D3:494:LEU:O	2.29	0.80
3:A5:175:GLU:OE1	5:C2:733:LEU:CD2	2.29	0.80
3:A5:220:VAL:CG1	5:C2:738:ASP:HB3	2.12	0.80
3:A5:1090:SER:C	11:I5:36:GLU:CG	2.44	0.80
3:A5:1356:SER:OG	28:Z2:877:ILE:HA	1.82	0.80
3:A5:1391:ARG:HA	28:Z2:871:HIS:CB	2.10	0.80
3:A6:442:ARG:HH11	6:D3:695:LEU:CD1	1.94	0.80
3:A6:520:GLU:CA	6:D3:639:LEU:HD12	1.96	0.80
8:F1:1137:GLN:C	17:O2:244:GLU:O	2.20	0.80
11:I1:887:GLN:HA	17:O1:242:ARG:HB2	1.63	0.80
11:I1:987:GLY:HA2	15:M1:614:ASP:CB	2.11	0.80
11:I1:994:ALA:H	17:O1:271:GLU:CG	1.84	0.80
11:I1:996:LEU:HD22	16:N1:410:MET:CE	1.70	0.80
11:I1:1113:LEU:C	16:N1:435:ALA:HB1	2.02	0.80
11:I2:917:TYR:CD2	15:M3:587:GLU:C	2.54	0.80
11:I2:931:VAL:CG2	15:M3:600:ASN:O	2.29	0.80
11:I2:950:LEU:HD11	16:N3:410:MET:CE	2.10	0.80
11:I2:952:LEU:HD12	16:N3:400:LEU:HD21	1.63	0.80
26:X4:155:LEU:O	26:X4:159:ILE:HG13	1.82	0.80
1:A1:1402:ASP:H	2:A2:884:ARG:HH12	1.24	0.80
1:A3:1253:SER:HB2	3:A6:635:ARG:HB2	0.84	0.80
2:A4:235:TYR:CZ	4:B4:347:LEU:HD12	2.17	0.80
2:A4:689:LYS:CE	3:A6:406:LEU:HD13	2.10	0.80
2:A4:710:LEU:N	3:A6:480:VAL:HG22	1.95	0.80
2:A4:727:ASN:HD21	3:A6:605:TYR:HA	1.43	0.80
2:A4:754:HIS:N	3:A6:540:GLN:HE21	1.80	0.80
2:A4:760:LEU:N	3:A6:388:GLU:CG	2.41	0.80
2:A4:925:LYS:HZ3	3:A6:233:THR:CA	1.94	0.80
2:A4:952:ARG:HG3	4:B6:347:LEU:CD2	2.08	0.80
2:A4:970:PHE:N	6:D3:202:GLN:CD	2.30	0.80
2:A4:975:GLU:HB2	6:D3:499:LEU:CB	2.04	0.80
3:A5:234:LEU:N	5:C2:737:LYS:C	2.33	0.80
3:A5:999:SER:HB3	11:I5:64:LYS:HG3	1.61	0.80
3:A5:1151:THR:CA	5:C5:733:LEU:CD1	2.57	0.80
3:A6:446:LEU:CD2	6:D3:730:ARG:HG3	2.12	0.80
3:A6:1376:LEU:HA	28:Z4:830:LEU:CB	2.11	0.80
6:D3:301:LEU:HD12	6:D3:301:LEU:O	1.81	0.80
11:I1:976:ARG:NH1	15:M1:622:VAL:CG2	2.45	0.80
11:I1:1052:LEU:H	17:O1:286:ILE:CG2	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:833:PHE:CD1	17:O3:245:GLU:OE2	2.34	0.80
11:I2:884:LEU:CG	16:N3:400:LEU:CD1	2.54	0.80
11:I2:895:ARG:H	17:O3:239:GLN:CG	1.94	0.80
11:I2:1037:THR:CB	20:R3:169:GLY:HA2	2.11	0.80
11:I3:1267:LEU:HD21	26:X1:529:TRP:CE3	2.15	0.80
11:I3:1278:ALA:HB3	26:X1:520:GLU:N	1.77	0.80
21:S1:293:ASN:HB2	21:S1:310:TRP:O	1.81	0.80
1:A1:873:PRO:CB	6:D3:218:LYS:HZ1	1.79	0.80
1:A1:1221:ILE:HD11	2:A2:618:ALA:CB	2.10	0.80
2:A2:827:ILE:HD12	2:A2:859:GLN:CB	2.00	0.80
1:A3:1241:ARG:NH2	3:A6:593:ALA:O	2.14	0.80
1:A3:1250:PRO:CG	3:A6:635:ARG:N	2.38	0.80
1:A3:1271:ILE:HB	3:A6:550:VAL:HB	0.95	0.80
2:A4:798:LYS:HE2	3:A6:264:GLU:CD	2.02	0.80
2:A4:818:LEU:C	3:A6:147:LEU:HB2	2.01	0.80
2:A4:825:ARG:HH22	3:A6:564:ASN:CG	1.82	0.80
2:A4:855:THR:HG21	3:A6:168:ASP:N	1.97	0.80
2:A4:893:LEU:HG	3:A6:175:GLU:HG3	1.62	0.80
2:A4:966:LEU:O	6:D3:202:GLN:CD	2.19	0.80
3:A6:444:ARG:HG2	6:D3:737:PHE:HZ	0.98	0.80
6:D6:301:LEU:HD12	6:D6:301:LEU:O	1.81	0.80
11:I1:934:LEU:H	15:M1:601:ASP:C	1.85	0.80
11:I1:980:ILE:C	15:M1:618:GLN:HA	2.02	0.80
11:I1:983:LEU:N	15:M1:621:ARG:NH2	2.28	0.80
11:I1:1048:GLU:CD	20:R1:143:PHE:HB2	1.98	0.80
11:I1:1049:LEU:CD2	20:R1:146:LEU:HD22	2.06	0.80
11:I2:1048:GLU:HB3	17:O3:284:LYS:C	2.01	0.80
17:O1:104:ASP:CG	18:P1:322:LYS:HE3	2.02	0.80
21:S3:938:LEU:HD22	22:T3:905:ARG:HG3	1.64	0.80
1:A1:1332:ARG:NE	6:D1:636:ASP:OD1	2.14	0.80
2:A2:904:GLN:HB3	6:D1:603:SER:H	1.42	0.80
1:A3:1049:PHE:CA	6:D3:816:VAL:CG2	2.60	0.80
1:A3:1130:ARG:NH2	3:A6:651:GLN:CA	2.43	0.80
1:A3:1189:LEU:CD2	3:A6:644:ALA:CB	2.49	0.80
1:A3:1259:CYS:SG	3:A6:623:SER:C	2.60	0.80
2:A4:543:GLY:O	3:A6:365:MET:CB	2.30	0.80
2:A4:679:TYR:HD2	3:A6:510:TYR:HD1	1.25	0.80
2:A4:765:GLU:HB2	3:A6:559:PHE:HZ	0.68	0.80
2:A4:770:GLY:O	3:A6:528:ILE:HD12	1.82	0.80
2:A4:776:MET:HA	3:A6:519:LEU:HD12	1.61	0.80
2:A4:856:PHE:HB2	3:A6:167:TRP:HE1	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1026:PRO:CD	11:I5:66:LEU:CD2	2.44	0.80
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CB	2.11	0.80
3:A6:777:LEU:CD1	3:A6:822:ILE:HD11	2.12	0.80
6:D1:301:LEU:O	6:D1:301:LEU:HD12	1.81	0.80
9:G1:263:MET:SD	16:N2:407:ALA:HB1	2.22	0.80
11:I1:922:ASP:H	15:M1:592:LEU:HD23	0.63	0.80
11:I1:1024:PHE:HB2	16:N1:406:HIS:HB2	0.80	0.80
11:I1:1667:GLN:CG	11:I2:1665:LEU:CG	2.04	0.80
11:I2:1051:LYS:HE3	17:O3:289:ASP:N	1.97	0.80
11:I3:1273:GLU:HB3	26:X1:526:CYS:C	2.02	0.80
21:S1:1036:ILE:HD12	21:S1:1073:ILE:HG22	1.62	0.80
1:A1:874:VAL:CB	6:D3:276:GLY:O	2.27	0.80
1:A1:1200:ARG:CZ	2:A2:642:ARG:NH2	2.45	0.80
2:A2:979:GLY:O	6:D1:473:GLU:OE2	1.99	0.80
2:A2:1019:ARG:CZ	6:D1:237:PRO:O	2.30	0.80
1:A3:1201:ARG:H	3:A6:682:ARG:NH2	1.80	0.80
2:A4:93:ASP:O	3:A6:361:ASP:CA	2.29	0.80
2:A4:535:PHE:HD1	3:A6:368:SER:HB2	1.43	0.80
2:A4:642:ARG:CG	3:A6:501:VAL:HG21	2.11	0.80
2:A4:861:GLN:C	6:D3:607:PRO:CG	2.49	0.80
3:A5:1406:GLY:HA2	28:Z2:921:THR:CB	2.11	0.80
3:A6:1368:GLN:HB2	28:Z4:875:LEU:HA	1.63	0.80
11:I1:842:ASN:CA	15:M1:587:GLU:HG3	2.08	0.80
11:I1:880:MET:HG3	17:O1:247:TRP:HA	1.64	0.80
11:I1:896:PRO:C	17:O1:232:LYS:HB3	2.01	0.80
11:I1:911:PRO:HB2	15:M1:584:GLN:NE2	1.96	0.80
11:I1:1042:LEU:O	16:N1:430:ARG:NH2	2.15	0.80
11:I2:895:ARG:HA	17:O3:234:LEU:O	1.82	0.80
11:I2:957:SER:N	16:N3:399:HIS:NE2	2.14	0.80
11:I2:1037:THR:CG2	20:R3:169:GLY:CA	2.52	0.80
11:I2:1049:LEU:O	17:O3:288:GLU:N	2.13	0.80
1:A3:1278:PRO:HB2	3:A6:624:ASP:C	1.97	0.80
2:A4:79:ALA:HB1	3:A6:321:ASP:HA	1.64	0.80
2:A4:548:LEU:CB	3:A6:105:GLY:HA3	2.12	0.80
2:A4:552:PHE:CE1	3:A6:109:ASP:N	2.33	0.80
2:A4:555:VAL:HG21	3:A6:437:ARG:HH22	1.42	0.80
2:A4:675:ALA:CB	3:A6:508:LEU:HD13	2.11	0.80
2:A4:727:ASN:HD22	3:A6:497:GLY:HA3	0.66	0.80
2:A4:951:GLU:CD	3:A6:233:THR:HB	2.00	0.80
2:A4:970:PHE:HZ	6:D3:555:ARG:HH22	1.29	0.80
6:D5:301:LEU:HD12	6:D5:301:LEU:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:887:GLN:O	17:O1:239:GLN:OE1	1.99	0.80
11:I1:913:ALA:H	15:M1:584:GLN:HE21	1.27	0.80
11:I1:1032:THR:O	15:M1:627:LEU:HG	1.82	0.80
11:I2:841:PHE:CE1	15:M3:588:MET:CG	2.59	0.80
11:I2:898:VAL:CG2	17:O3:236:ASP:C	2.50	0.80
11:I2:900:ARG:HG3	17:O3:232:LYS:CD	2.10	0.80
11:I2:945:LEU:CG	17:O3:255:GLY:O	2.29	0.80
11:I2:980:ILE:N	20:R3:147:LEU:CD1	2.34	0.80
11:I2:1036:PRO:HG2	15:M3:622:VAL:C	2.02	0.80
11:I2:1103:LEU:HD22	20:R3:174:ARG:HB3	1.64	0.80
11:I3:1271:GLU:CB	26:X1:525:ILE:HG22	2.11	0.80
21:S2:1036:ILE:HD12	21:S2:1073:ILE:HG22	1.62	0.80
21:S3:1143:VAL:HA	21:S3:1146:ALA:HB3	1.63	0.80
1:A1:870:HIS:HB3	6:D3:279:HIS:C	1.91	0.79
2:A2:1167:CYS:HB3	4:B5:342:ARG:HE	1.45	0.79
1:A3:1188:ASN:HB2	3:A6:642:ARG:HA	1.64	0.79
1:A3:1255:LEU:CB	3:A6:634:ASP:OD2	2.31	0.79
2:A4:678:LEU:HD11	3:A6:103:ARG:O	1.69	0.79
2:A4:752:LYS:HA	3:A6:540:GLN:N	1.95	0.79
2:A4:879:LEU:CG	6:D3:564:ASN:CG	2.50	0.79
2:A4:950:ASP:OD2	4:B6:348:PRO:HA	1.50	0.79
3:A5:1050:TYR:OH	11:I5:70:GLU:HB3	1.80	0.79
3:A6:1408:GLU:C	26:X4:686:ASP:CB	2.50	0.79
8:F1:1093:LEU:HG	17:O2:241:SER:CA	2.12	0.79
9:G2:256:GLN:H	17:O4:262:ASP:CG	1.85	0.79
11:I1:880:MET:CG	17:O1:247:TRP:O	2.30	0.79
11:I1:1064:LYS:CB	16:N1:427:VAL:HG11	1.78	0.79
11:I1:1114:VAL:HG13	16:N1:432:TYR:HD2	1.34	0.79
11:I2:921:GLU:C	15:M3:593:ALA:CA	2.50	0.79
11:I2:930:LEU:HD23	15:M3:597:LYS:O	1.66	0.79
11:I4:1270:LYS:HD2	26:X3:527:VAL:CB	2.12	0.79
21:S1:938:LEU:HD22	22:T1:905:ARG:HG3	1.64	0.79
26:X3:155:LEU:O	26:X3:159:ILE:HG13	1.82	0.79
2:A2:872:ALA:CB	6:D1:565:MET:HA	1.92	0.79
2:A2:965:LYS:HE2	6:D1:196:ILE:O	1.81	0.79
1:A3:1083:SER:CB	6:D3:798:MET:HE1	1.66	0.79
1:A3:1123:GLU:OE2	3:A6:599:ARG:HD2	1.82	0.79
1:A3:1248:ILE:HG13	3:A6:587:VAL:HG13	0.79	0.79
2:A4:767:ILE:C	3:A6:469:PHE:O	2.21	0.79
2:A4:867:GLU:HB2	6:D3:605:THR:HB	1.62	0.79
3:A6:446:LEU:CD2	6:D3:730:ARG:HG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:846:ILE:HD12	15:M1:594:LYS:HD2	1.61	0.79
11:I1:846:ILE:CD1	15:M1:594:LYS:HD2	2.10	0.79
11:I1:874:LEU:HD23	17:O1:252:VAL:CG1	2.06	0.79
11:I1:882:LYS:CB	17:O1:245:GLU:C	2.50	0.79
11:I1:950:LEU:HB3	16:N1:406:HIS:HB3	1.62	0.79
11:I1:976:ARG:NH1	15:M1:622:VAL:HG22	1.96	0.79
11:I1:982:GLN:C	15:M1:621:ARG:NH2	2.30	0.79
11:I1:1013:GLU:C	16:N1:411:GLN:O	2.19	0.79
11:I1:1036:PRO:O	15:M1:623:LEU:O	1.99	0.79
11:I2:894:VAL:HG13	17:O3:238:ALA:N	1.80	0.79
11:I3:1270:LYS:N	26:X1:529:TRP:H	1.79	0.79
21:S4:938:LEU:HD22	22:T4:905:ARG:HG3	1.64	0.79
2:A2:871:ASN:HB2	6:D1:571:SER:CB	2.12	0.79
2:A2:968:SER:CA	6:D1:201:LEU:O	2.28	0.79
2:A2:1139:ILE:CG2	3:A5:135:PHE:CD2	2.63	0.79
1:A3:1257:VAL:HG13	3:A6:620:GLY:N	1.96	0.79
1:A3:1274:ASP:OD1	3:A6:558:GLU:HG3	1.82	0.79
1:A3:1277:TRP:HB3	3:A6:556:PRO:HD3	1.65	0.79
1:A3:1332:ARG:HG3	6:D3:636:ASP:HB2	1.61	0.79
2:A4:171:HIS:HE2	6:D3:708:ASP:CG	1.84	0.79
2:A4:552:PHE:O	3:A6:434:PHE:C	2.21	0.79
2:A4:691:LYS:CD	3:A6:316:ARG:HB2	2.11	0.79
2:A4:705:ILE:CG2	3:A6:480:VAL:O	2.28	0.79
2:A4:759:ALA:HB3	3:A6:388:GLU:CA	2.13	0.79
2:A4:860:GLU:O	6:D3:607:PRO:HD3	1.81	0.79
3:A5:233:THR:N	5:C2:738:ASP:H	1.80	0.79
3:A6:1394:VAL:O	28:Z4:917:ASP:N	2.15	0.79
3:A6:1403:MSE:SE	28:Z4:964:LEU:O	2.50	0.79
11:I1:928:LEU:HD11	20:R1:155:GLU:HB2	1.65	0.79
11:I4:819:MET:CB	26:X3:501:LYS:CE	2.60	0.79
17:O3:155:VAL:HG21	18:P3:321:ILE:CG2	1.96	0.79
2:A2:876:ARG:CZ	6:D1:563:GLU:CA	2.44	0.79
1:A3:1099:GLN:NE2	11:I2:1416:GLY:N	2.25	0.79
1:A3:1186:TRP:O	3:A6:618:ALA:HA	1.81	0.79
1:A3:1191:ASN:O	3:A6:612:ALA:HA	1.81	0.79
1:A3:1200:ARG:CD	3:A6:609:GLU:HG2	2.11	0.79
1:A3:1241:ARG:NH1	3:A6:593:ALA:C	2.36	0.79
1:A3:1271:ILE:CB	3:A6:550:VAL:HG12	2.06	0.79
2:A4:672:ARG:HA	3:A6:508:LEU:HD13	1.64	0.79
2:A4:864:ARG:CD	6:D3:607:PRO:C	2.51	0.79
2:A4:901:ALA:HB2	3:A6:176:LEU:HD12	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1026:PRO:HB2	11:I5:73:TYR:HD1	0.78	0.79
3:A5:1029:ILE:CB	11:I5:69:GLY:C	2.51	0.79
6:D4:301:LEU:HD12	6:D4:301:LEU:O	1.81	0.79
6:D7:530:ARG:HB3	11:I3:181:GLN:CB	1.87	0.79
11:I1:797:LEU:HD11	17:O1:245:GLU:N	1.97	0.79
11:I1:846:ILE:CG1	15:M1:594:LYS:HD2	2.13	0.79
11:I1:920:PHE:CD1	17:O1:243:LEU:HD22	2.17	0.79
11:I1:945:LEU:CG	17:O1:259:ASP:H	1.96	0.79
11:I1:1031:ALA:O	20:R1:176:ARG:HB2	1.11	0.79
11:I1:1051:LYS:HB2	17:O1:290:TYR:H	1.48	0.79
11:I1:1607:GLN:HG2	11:I2:1739:GLU:H	1.41	0.79
11:I1:1607:GLN:HG2	11:I2:1739:GLU:HA	0.82	0.79
11:I1:1736:LEU:HD12	11:I2:1607:GLN:NE2	1.96	0.79
11:I2:966:TRP:N	20:R3:154:ALA:N	2.21	0.79
11:I2:1040:HIS:O	15:M3:616:LEU:HD12	1.83	0.79
11:I3:1267:LEU:HD11	26:X1:529:TRP:CZ3	2.09	0.79
11:I3:1267:LEU:HD12	26:X1:529:TRP:CA	2.12	0.79
21:S1:1143:VAL:HA	21:S1:1146:ALA:HB3	1.63	0.79
1:A1:1220:PRO:C	2:A2:646:ILE:N	2.35	0.79
1:A1:1226:LEU:N	2:A2:725:GLU:HG3	1.97	0.79
1:A1:1226:LEU:HA	2:A2:728:LYS:HB3	1.64	0.79
1:A3:1048:ARG:CZ	6:D3:790:ARG:NH2	2.46	0.79
1:A3:1049:PHE:HA	6:D3:816:VAL:CG2	2.13	0.79
1:A3:1182:ILE:HG22	3:A6:636:ASN:HA	1.65	0.79
2:A4:642:ARG:CD	3:A6:501:VAL:HG21	2.11	0.79
2:A4:682:ARG:HG2	3:A6:432:VAL:N	1.96	0.79
2:A4:717:VAL:CG2	3:A6:476:PHE:HB3	2.11	0.79
2:A4:730:THR:CB	3:A6:609:GLU:HG2	2.12	0.79
2:A4:768:SER:N	3:A6:475:TYR:C	2.36	0.79
2:A4:947:LYS:HD2	3:A6:203:ILE:CD1	2.12	0.79
2:A4:951:GLU:OE2	3:A6:235:TYR:CD2	2.35	0.79
2:A4:988:ARG:CD	6:D3:500:LYS:HG3	2.12	0.79
3:A5:1056:PHE:CD2	11:I5:37:GLU:CG	2.62	0.79
3:A6:484:PRO:HD2	6:D3:672:GLU:CG	2.05	0.79
5:C1:732:LYS:CE	11:I1:1228:GLU:CG	2.54	0.79
9:G1:254:ASN:CG	15:M2:605:THR:HB	2.01	0.79
9:G1:258:LYS:HB3	17:O2:253:LEU:HD23	1.64	0.79
11:I1:923:GLY:HA3	15:M1:592:LEU:H	1.44	0.79
11:I1:963:LEU:CD2	20:R1:176:ARG:HH22	1.90	0.79
11:I1:1016:ARG:O	16:N1:409:ALA:CA	2.28	0.79
11:I2:884:LEU:CD1	16:N3:400:LEU:CG	2.57	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1017:VAL:HG13	16:N3:410:MET:HG2	0.81	0.79
11:I2:1059:PRO:HB2	17:O3:275:LEU:N	1.92	0.79
17:O4:112:GLY:CA	18:P1:278:ASN:CB	2.52	0.79
23:U3:314:ILE:HG22	23:U3:315:LEU:HG	1.64	0.79
2:A2:1131:ILE:N	3:A5:140:ALA:CA	2.30	0.79
1:A3:777:LEU:CD1	1:A3:822:ILE:HD11	2.12	0.79
1:A3:1189:LEU:CG	3:A6:614:ALA:HB1	2.13	0.79
1:A3:1223:GLU:O	3:A6:496:THR:CG2	2.31	0.79
1:A3:1228:TYR:CG	3:A6:551:GLN:HB3	2.18	0.79
1:A3:1233:GLN:CG	3:A6:578:ILE:CD1	2.59	0.79
1:A3:1245:ASP:O	3:A6:587:VAL:HG11	1.83	0.79
1:A3:1328:ARG:O	3:A6:127:HIS:CE1	2.36	0.79
2:A4:535:PHE:CD1	3:A6:368:SER:CB	2.55	0.79
2:A4:555:VAL:HG22	3:A6:437:ARG:HH21	0.98	0.79
2:A4:758:HIS:HA	3:A6:535:PHE:HE1	1.48	0.79
2:A4:778:PHE:HA	3:A6:524:ARG:HG3	1.63	0.79
3:A6:444:ARG:N	6:D3:719:LEU:CD1	2.45	0.79
3:A6:1398:LYS:HD3	28:Z4:921:THR:CB	2.12	0.79
8:F1:1094:GLY:CA	17:O2:237:PRO:CA	2.35	0.79
8:F1:1262:HIS:CE1	17:O2:259:ASP:H	1.96	0.79
11:I1:886:LEU:HB2	17:O1:242:ARG:CA	2.11	0.79
11:I1:915:ALA:HB1	16:N1:382:MET:SD	2.23	0.79
11:I1:925:LEU:N	15:M1:596:ILE:HB	1.97	0.79
11:I1:947:LEU:HD12	16:N1:407:ALA:O	1.83	0.79
11:I1:1035:GLN:O	15:M1:627:LEU:HB2	1.77	0.79
11:I1:1042:LEU:HA	15:M1:616:LEU:HD21	0.81	0.79
11:I2:1039:ALA:CB	20:R3:170:LEU:N	2.44	0.79
11:I2:1039:ALA:HB2	20:R3:170:LEU:CB	1.84	0.79
11:I2:1055:GLU:CA	17:O3:278:GLU:HA	2.12	0.79
11:I2:1069:SER:OG	16:N3:427:VAL:HB	1.83	0.79
11:I3:1272:TYR:C	26:X1:526:CYS:N	1.96	0.79
26:X2:155:LEU:O	26:X2:159:ILE:HG13	1.82	0.79
2:A2:1155:ASN:HB3	3:A5:177:ILE:CG1	2.09	0.79
1:A3:1325:MET:CE	3:A6:125:VAL:HG23	2.13	0.79
2:A4:76:PRO:HD2	3:A6:322:ASP:HB2	1.64	0.79
2:A4:577:ASP:CB	3:A6:453:SER:CB	2.61	0.79
2:A4:777:LEU:HD21	3:A6:526:ILE:HG12	1.65	0.79
2:A4:983:LEU:HD12	6:D3:553:PHE:HB2	1.61	0.79
3:A5:1028:VAL:HG12	11:I5:68:ILE:HD13	1.63	0.79
8:F1:1137:GLN:CA	17:O2:244:GLU:O	2.29	0.79
9:G2:256:GLN:CB	17:O4:262:ASP:H	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1026:TYR:O	20:R1:172:ASP:HA	1.83	0.79
11:I1:1056:PRO:HA	17:O1:278:GLU:HB2	0.79	0.79
11:I1:1109:LEU:CD1	17:O1:290:TYR:HE2	0.32	0.79
11:I2:797:LEU:HD12	17:O3:248:SER:OG	1.82	0.79
11:I2:834:SER:HB2	17:O3:237:PRO:HA	1.54	0.79
11:I2:977:ASN:O	20:R3:148:ALA:CA	2.17	0.79
11:I2:1029:LEU:HD13	16:N3:433:GLU:CG	2.09	0.79
21:S2:938:LEU:HD22	22:T2:905:ARG:HG3	1.64	0.79
21:S2:1143:VAL:HA	21:S2:1146:ALA:HB3	1.63	0.79
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CB	2.46	0.79
2:A2:872:ALA:HB1	6:D1:565:MET:SD	2.23	0.79
1:A3:1166:LEU:C	3:A6:594:LEU:HB3	2.02	0.79
1:A3:1186:TRP:N	3:A6:639:ASN:CA	2.46	0.79
2:A4:677:ALA:H	3:A6:98:LEU:HA	1.16	0.79
2:A4:680:LEU:HD21	3:A6:470:ARG:NE	1.97	0.79
2:A4:687:LEU:CD2	3:A6:403:ARG:HG2	2.13	0.79
2:A4:757:LEU:HG	3:A6:543:GLY:N	1.98	0.79
2:A4:775:LEU:CG	3:A6:489:LEU:HD12	2.12	0.79
2:A4:792:VAL:HG12	3:A6:188:ALA:HB2	1.63	0.79
2:A4:858:ALA:C	6:D3:606:LYS:CE	2.51	0.79
2:A4:886:PHE:HE1	3:A6:176:LEU:CG	1.95	0.79
3:A5:1094:ILE:HG23	11:I5:4:LEU:CG	2.11	0.79
3:A5:1416:ARG:C	28:Z2:963:LYS:HA	2.03	0.79
3:A6:444:ARG:N	6:D3:719:LEU:HD13	1.97	0.79
3:A6:484:PRO:CD	6:D3:672:GLU:CG	2.42	0.79
8:F1:1137:GLN:HB3	17:O2:248:SER:H	0.63	0.79
8:F1:1265:GLN:O	17:O2:265:ASN:CG	2.21	0.79
11:I1:797:LEU:CB	17:O1:245:GLU:CG	2.48	0.79
11:I1:914:ASN:CB	15:M1:588:MET:N	2.34	0.79
11:I1:931:VAL:HG23	15:M1:603:SER:HG	1.47	0.79
11:I1:1103:LEU:CD1	20:R1:175:GLN:NE2	2.46	0.79
11:I2:833:PHE:CE1	17:O3:241:SER:C	2.56	0.79
11:I2:833:PHE:O	17:O3:241:SER:CB	2.30	0.79
11:I2:924:ILE:HB	15:M3:598:GLU:H	1.46	0.79
11:I2:1030:ARG:C	20:R3:172:ASP:O	2.21	0.79
11:I3:1278:ALA:C	26:X1:520:GLU:CA	2.50	0.79
17:O3:154:ARG:CD	18:P3:324:LEU:CD1	2.40	0.79
21:S1:662:ASP:O	21:S2:1150:TYR:CB	2.31	0.79
1:A1:874:VAL:HG11	6:D3:272:VAL:C	2.02	0.79
1:A1:1332:ARG:CZ	6:D1:682:ASN:N	2.45	0.79
1:A3:1237:LEU:HB3	3:A6:597:GLU:HG2	1.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1240:HIS:ND1	3:A6:118:SER:OG	2.14	0.79
1:A3:1392:ARG:CA	3:A6:225:THR:OG1	2.30	0.79
2:A4:802:TYR:O	3:A6:381:LEU:O	1.92	0.79
2:A4:901:ALA:HB1	3:A6:133:LYS:CE	2.13	0.79
2:A4:949:PHE:O	4:B6:347:LEU:HD23	1.83	0.79
3:A5:1365:VAL:CB	28:Z2:841:ALA:CB	2.56	0.79
3:A5:1367:THR:HB	28:Z2:845:ILE:N	1.54	0.79
3:A6:1069:SER:O	3:A6:1078:ARG:NH1	2.16	0.79
3:A6:1392:ARG:C	28:Z4:913:ILE:H	1.86	0.79
5:C1:732:LYS:HZ2	11:I1:1225:LYS:HD2	0.97	0.79
8:F2:1091:SER:O	17:O4:244:GLU:CB	2.31	0.79
11:I1:953:LEU:H	16:N1:403:VAL:HG11	1.47	0.79
11:I1:984:GLU:CD	15:M1:615:PRO:HA	2.03	0.79
11:I2:840:LEU:CB	17:O3:247:TRP:CD1	2.65	0.79
11:I2:877:ILE:HG12	17:O3:254:ARG:HB2	0.93	0.79
11:I2:976:ARG:NH1	20:R3:147:LEU:N	2.31	0.79
11:I2:1044:GLY:H	15:M3:616:LEU:HD13	1.46	0.79
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD13	1.56	0.79
1:A1:869:ALA:N	6:D3:280:GLN:HB2	1.96	0.79
2:A2:825:ARG:HD2	6:D1:633:LYS:HG3	1.65	0.79
2:A2:980:ARG:CD	6:D1:503:LEU:HB2	2.12	0.79
1:A3:1182:ILE:HG21	3:A6:636:ASN:HA	1.63	0.79
1:A3:1202:GLU:CG	3:A6:91:LEU:N	2.45	0.79
1:A3:1225:PRO:HA	3:A6:547:GLU:HB2	1.63	0.79
1:A3:1238:ILE:O	3:A6:585:ASN:N	1.69	0.79
1:A3:1277:TRP:CE3	3:A6:577:ASP:OD1	2.36	0.79
2:A4:89:LEU:CB	3:A6:406:LEU:CG	2.59	0.79
2:A4:553:ASP:HA	3:A6:435:PRO:HD2	1.64	0.79
2:A4:621:GLN:NE2	3:A6:108:SER:O	2.16	0.79
2:A4:691:LYS:HZ1	3:A6:331:SER:CA	1.96	0.79
2:A4:701:ILE:CB	3:A6:466:ALA:CB	2.44	0.79
2:A4:720:LEU:HA	3:A6:495:ASP:CA	2.12	0.79
2:A4:780:GLU:CG	3:A6:523:ASN:CA	2.61	0.79
2:A4:798:LYS:HD2	3:A6:314:TRP:HE1	1.48	0.79
2:A4:975:GLU:CB	6:D3:501:LEU:HG	1.97	0.79
2:A4:976:LEU:CD2	6:D3:472:PHE:CD2	2.51	0.79
2:A4:1094:ILE:HG12	6:D4:759:GLN:HE21	1.44	0.79
3:A5:232:LEU:HD21	5:C2:738:ASP:C	2.03	0.79
3:A5:1316:VAL:CG2	28:Z2:833:ASP:CB	2.60	0.79
3:A5:1359:LEU:CB	28:Z2:878:HIS:H	1.79	0.79
8:F2:1137:GLN:HB3	17:O4:251:ILE:HD13	1.59	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:895:ARG:HG2	17:O1:233:THR:N	1.65	0.79
11:I1:900:ARG:CG	17:O1:232:LYS:HZ2	1.90	0.79
11:I1:916:ALA:CB	15:M1:586:ASP:CB	2.61	0.79
11:I1:928:LEU:HD23	20:R1:154:ALA:O	1.79	0.79
11:I1:1035:GLN:O	16:N1:441:PHE:CZ	2.18	0.79
11:I1:1540:LYS:NZ	11:I2:1739:GLU:CB	2.40	0.79
11:I1:1611:PHE:CA	11:I2:1673:VAL:H	1.89	0.79
11:I1:1669:ARG:NH2	11:I2:1610:VAL:HG12	1.96	0.79
11:I2:887:GLN:HE22	16:N3:396:ILE:CD1	1.94	0.79
11:I2:894:VAL:HG11	17:O3:237:PRO:O	1.81	0.79
11:I2:932:VAL:HG13	15:M3:612:PRO:HB3	1.64	0.79
11:I2:952:LEU:HD23	15:M3:602:MET:HB3	1.62	0.79
11:I2:978:LYS:CE	20:R3:154:ALA:N	2.46	0.79
11:I2:1040:HIS:CB	16:N3:434:LEU:CD1	2.61	0.79
11:I2:1109:LEU:CD1	16:N3:438:LEU:HD22	2.13	0.79
11:I3:1267:LEU:CD2	26:X1:529:TRP:CE3	2.66	0.79
11:I3:1276:GLN:N	26:X1:522:MET:CB	2.33	0.79
11:I3:1278:ALA:CB	26:X1:520:GLU:N	2.37	0.79
21:S4:1097:LYS:HZ3	21:S4:1101:PHE:HE1	1.28	0.79
24:V2:548:TYR:OH	25:W2:18:ASP:OD2	2.01	0.79
24:V4:548:TYR:OH	25:W4:18:ASP:OD2	2.01	0.79
1:A1:870:HIS:H	6:D3:280:GLN:CB	1.96	0.78
1:A1:1224:PRO:CD	2:A2:734:LEU:HD22	2.13	0.78
2:A2:868:GLN:NE2	6:D1:608:ILE:O	2.15	0.78
2:A2:1143:LEU:HD21	3:A5:131:PRO:CG	2.06	0.78
1:A3:1052:THR:HG23	6:D3:816:VAL:HG23	1.64	0.78
1:A3:1202:GLU:HG2	3:A6:91:LEU:HB2	1.64	0.78
1:A3:1240:HIS:NE2	3:A6:118:SER:N	2.31	0.78
1:A3:1244:LEU:CG	3:A6:633:MET:HE1	2.11	0.78
1:A3:1271:ILE:H	3:A6:553:ASP:C	1.87	0.78
2:A4:93:ASP:CB	3:A6:361:ASP:HB2	2.02	0.78
2:A4:827:ILE:HA	6:D3:606:LYS:CB	2.09	0.78
2:A4:886:PHE:O	3:A6:175:GLU:HG2	1.82	0.78
4:B5:344:ALA:HA	5:C2:737:LYS:HD3	1.62	0.78
8:F2:1095:TYR:N	17:O4:244:GLU:OE1	2.07	0.78
11:I1:837:MET:HE1	17:O1:242:ARG:HB2	1.55	0.78
11:I1:926:SER:HA	20:R1:156:GLY:N	1.97	0.78
11:I2:833:PHE:CE1	17:O3:245:GLU:OE2	2.35	0.78
11:I2:990:GLU:C	17:O3:271:GLU:HG2	2.02	0.78
11:I2:1106:LYS:CB	16:N3:440:GLU:CG	2.60	0.78
11:I3:815:ILE:CG2	26:X1:497:ARG:N	2.44	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:813:ILE:O	26:X3:496:THR:CA	2.31	0.78
1:A1:1400:SER:OG	2:A2:885:LEU:HD21	1.83	0.78
2:A2:223:THR:HB	6:D1:709:ARG:NH2	1.89	0.78
2:A2:992:TYR:HB3	6:D1:238:ALA:CB	2.13	0.78
1:A3:1056:PHE:H	6:D3:809:ALA:HB2	1.48	0.78
1:A3:1170:ILE:N	3:A6:591:ASP:HA	1.79	0.78
1:A3:1186:TRP:C	3:A6:618:ALA:CA	2.48	0.78
1:A3:1226:LEU:O	3:A6:551:GLN:CG	2.20	0.78
1:A3:1390:LEU:CD1	3:A6:228:GLY:HA3	2.13	0.78
2:A4:648:TYR:CD2	3:A6:503:GLN:CB	2.66	0.78
2:A4:792:VAL:CG2	3:A6:248:VAL:CB	2.50	0.78
3:A5:1026:PRO:CA	11:I5:68:ILE:N	2.45	0.78
3:A6:132:ASP:HB3	6:D3:607:PRO:HD3	1.65	0.78
11:I1:881:ILE:C	17:O1:246:LEU:HA	2.04	0.78
11:I1:976:ARG:CZ	15:M1:622:VAL:CG2	2.60	0.78
11:I1:1059:PRO:CD	17:O1:276:GLY:C	2.22	0.78
11:I1:1540:LYS:CD	11:I2:1739:GLU:HB3	2.12	0.78
11:I1:1672:VAL:C	11:I2:1611:PHE:C	2.41	0.78
11:I2:881:ILE:HG22	17:O3:249:ARG:CZ	2.12	0.78
11:I2:896:PRO:CB	17:O3:233:THR:CA	2.47	0.78
11:I2:979:ALA:O	15:M3:621:ARG:NH1	1.88	0.78
1:A1:1333:ARG:C	6:D1:637:LYS:HD3	2.02	0.78
2:A2:908:LEU:C	6:D1:552:TYR:CE1	2.56	0.78
2:A2:974:PRO:O	6:D1:494:LEU:O	2.01	0.78
1:A3:1204:TRP:CZ2	3:A6:95:TYR:CD2	2.71	0.78
2:A4:81:ALA:CB	3:A6:388:GLU:CB	2.62	0.78
2:A4:721:ARG:H	3:A6:493:ALA:CA	1.89	0.78
2:A4:982:THR:CB	6:D3:494:LEU:C	2.52	0.78
3:A6:483:HIS:O	6:D3:675:ARG:HB2	1.80	0.78
3:A6:1395:LYS:HA	28:Z4:920:SER:H	1.46	0.78
8:F1:1264:ARG:NH2	17:O2:264:ILE:HD13	1.98	0.78
11:I1:797:LEU:HD13	17:O1:245:GLU:N	1.97	0.78
11:I1:938:CYS:CB	15:M1:606:LEU:CD1	1.85	0.78
11:I1:1037:THR:O	15:M1:620:VAL:CA	2.28	0.78
11:I2:877:ILE:HB	17:O3:251:ILE:O	1.81	0.78
11:I2:884:LEU:CD1	15:M3:599:ILE:HD13	2.14	0.78
11:I2:947:LEU:HD22	17:O3:256:TYR:CZ	2.18	0.78
11:I2:962:ILE:HG22	20:R3:166:LEU:CG	2.11	0.78
11:I2:1018:LYS:N	16:N3:413:VAL:H	1.82	0.78
11:I2:1024:PHE:CB	16:N3:406:HIS:CD2	2.64	0.78
11:I4:813:ILE:CA	26:X3:496:THR:HG22	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:293:ASN:HB2	21:S4:310:TRP:O	1.81	0.78
1:A1:1083:SER:O	6:D1:798:MET:HG2	1.83	0.78
1:A1:1222:ALA:O	2:A2:723:PHE:CE2	2.26	0.78
1:A3:1123:GLU:CD	3:A6:599:ARG:CD	2.50	0.78
1:A3:1270:SER:OG	3:A6:553:ASP:CG	2.21	0.78
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ1	1.50	0.78
2:A4:554:GLN:HE21	3:A6:370:PRO:HD2	1.48	0.78
2:A4:889:VAL:CG2	3:A6:174:PRO:CA	2.61	0.78
2:A4:897:ASN:CA	3:A6:177:ILE:O	2.32	0.78
2:A4:918:CYS:SG	4:B6:342:ARG:HD3	2.15	0.78
3:A5:161[A]:ASP:O	5:C2:744:PHE:O	2.01	0.78
3:A5:1395:LYS:HE3	28:Z2:872:TYR:H	1.48	0.78
11:I1:927:HIS:CD2	15:M1:594:LYS:CB	2.66	0.78
11:I1:951:LYS:C	16:N1:400:LEU:O	2.22	0.78
11:I1:1109:LEU:CG	17:O1:290:TYR:CE2	2.25	0.78
11:I2:900:ARG:CG	17:O3:232:LYS:CD	2.53	0.78
11:I2:924:ILE:CB	15:M3:597:LYS:H	1.97	0.78
11:I2:1020:ALA:HA	16:N3:405:ALA:O	1.82	0.78
11:I2:1024:PHE:HB2	16:N3:406:HIS:CB	2.13	0.78
11:I2:1109:LEU:CA	17:O3:290:TYR:CZ	2.66	0.78
11:I3:1276:GLN:C	26:X1:522:MET:HB2	2.02	0.78
11:I4:1276:GLN:HG2	26:X3:521:TRP:N	1.98	0.78
2:A2:779:ASP:OD1	6:D1:690:TYR:OH	2.00	0.78
2:A2:978:ASP:H	6:D1:492:VAL:HG12	1.46	0.78
2:A2:1135:ARG:HG3	3:A5:138:LEU:HD11	1.55	0.78
2:A2:1163:TYR:CZ	3:A5:136:GLU:OE2	2.37	0.78
2:A4:543:GLY:C	3:A6:362:PHE:O	2.21	0.78
2:A4:551:GLN:HG2	3:A6:106:ALA:O	1.83	0.78
2:A4:795:GLN:CB	3:A6:247:ASP:OD2	2.31	0.78
2:A4:900:THR:HB	3:A6:137:HIS:NE2	1.99	0.78
2:A4:973:GLU:O	6:D3:499:LEU:HG	1.82	0.78
2:A4:986:THR:HB	6:D3:504:LYS:HD3	0.79	0.78
2:A4:987:LYS:HE3	6:D3:555:ARG:HG2	1.63	0.78
3:A5:177:ILE:HG21	5:C2:737:LYS:HA	1.63	0.78
3:A5:1394:VAL:C	28:Z2:874:ASN:CA	2.45	0.78
8:F1:1091:SER:HG	17:O2:241:SER:HB2	1.43	0.78
9:G1:266:ASP:CA	16:N2:412:ASN:HA	1.96	0.78
11:I1:797:LEU:CD1	17:O1:245:GLU:HG3	2.11	0.78
11:I1:947:LEU:C	16:N1:407:ALA:HB3	2.04	0.78
11:I1:976:ARG:HB3	20:R1:149:ARG:HB3	0.79	0.78
11:I2:887:GLN:NE2	16:N3:396:ILE:HD12	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O4:110:LEU:CD2	18:P4:321:ILE:N	1.84	0.78
17:O4:111:TYR:CE2	18:P4:321:ILE:HD13	2.18	0.78
28:Z2:113:VAL:HG23	28:Z2:114:GLU:H	1.49	0.78
1:A1:871:ASN:HA	6:D3:279:HIS:H	1.47	0.78
1:A1:1200:ARG:HB3	2:A2:727:ASN:O	1.82	0.78
2:A2:1155:ASN:CB	3:A5:177:ILE:HG13	2.12	0.78
1:A3:1238:ILE:HG23	3:A6:586:CYS:CB	2.10	0.78
1:A3:1268:ASP:N	3:A6:553:ASP:N	2.31	0.78
1:A3:1271:ILE:O	3:A6:550:VAL:HG21	1.83	0.78
1:A3:1271:ILE:HG12	3:A6:554:GLN:H	1.47	0.78
1:A3:1311:ARG:NE	3:A6:715:GLU:CG	2.46	0.78
2:A4:86:ASN:CB	3:A6:393:HIS:CB	2.53	0.78
3:A6:442:ARG:NH2	6:D3:740:GLU:O	2.16	0.78
11:I1:874:LEU:CD2	17:O1:252:VAL:HA	2.11	0.78
11:I2:797:LEU:CD1	17:O3:245:GLU:CA	2.32	0.78
11:I2:895:ARG:NH1	16:N3:386:MET:HE2	1.97	0.78
11:I2:980:ILE:HD13	15:M3:622:VAL:HG23	0.79	0.78
11:I2:1030:ARG:H	20:R3:172:ASP:C	1.87	0.78
11:I2:1039:ALA:HB3	20:R3:170:LEU:HD23	1.63	0.78
11:I4:819:MET:HE2	26:X3:502:MET:HG2	1.64	0.78
17:O3:162:LYS:HG3	18:P3:315:GLU:HB3	1.64	0.78
21:S1:671:ALA:CA	21:S2:1146:ALA:N	2.47	0.78
26:X1:155:LEU:O	26:X1:159:ILE:HG13	1.82	0.78
1:A1:1393:THR:CA	2:A2:851:ASP:OD1	2.31	0.78
2:A2:868:GLN:CB	6:D1:570:VAL:CG1	2.59	0.78
2:A2:985:ALA:N	6:D1:498:GLU:HA	1.99	0.78
2:A2:1151:THR:CG2	5:C2:734:VAL:CB	2.61	0.78
1:A3:1228:TYR:CB	3:A6:574:ARG:NH2	2.47	0.78
1:A3:1251:VAL:C	3:A6:634:ASP:HB2	2.04	0.78
1:A3:1318:TRP:CE2	3:A6:624:ASP:CG	2.57	0.78
2:A4:770:GLY:HA3	3:A6:469:PHE:HB2	0.79	0.78
2:A4:801:THR:OG1	3:A6:381:LEU:N	2.16	0.78
2:A4:807:SER:C	3:A6:383:PRO:HD2	2.03	0.78
2:A4:893:LEU:HD22	3:A6:176:LEU:HA	1.64	0.78
3:A5:156:ALA:C	5:C2:741:THR:HG21	2.03	0.78
3:A5:160:ILE:CD1	5:C2:743:LEU:HG	2.14	0.78
3:A5:1101:GLN:NE2	11:I5:33:THR:HG21	1.96	0.78
11:I1:984:GLU:HB2	15:M1:618:GLN:NE2	1.95	0.78
11:I1:1002:ALA:HB3	16:N1:414:ALA:HA	1.66	0.78
11:I1:1114:VAL:HG11	16:N1:432:TYR:CZ	2.19	0.78
11:I2:958:THR:OG1	16:N3:399:HIS:HD2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1038:ILE:CD1	15:M3:620:VAL:HB	2.12	0.78
11:I2:1050:SER:C	17:O3:290:TYR:HB2	2.04	0.78
11:I2:1609:GLY:CA	12:J1:295:TYR:CE1	2.65	0.78
2:A2:879:LEU:HG	6:D1:567:LEU:HD11	0.84	0.78
2:A2:974:PRO:C	6:D1:499:LEU:HG	2.04	0.78
1:A3:1233:GLN:OE1	2:A4:726:ALA:HB1	1.83	0.78
1:A3:1233:GLN:O	3:A6:578:ILE:O	1.91	0.78
1:A3:1242:THR:HG21	3:A6:587:VAL:HB	0.78	0.78
2:A4:679:TYR:CE1	3:A6:109:ASP:HB2	2.18	0.78
2:A4:681:THR:CB	3:A6:431:PHE:HD1	1.96	0.78
2:A4:791:ALA:H	3:A6:187:THR:CB	1.96	0.78
2:A4:870:HIS:HB2	6:D3:566:PHE:HE1	1.48	0.78
2:A4:874:VAL:O	6:D3:567:LEU:HB3	1.81	0.78
2:A4:897:ASN:HA	3:A6:165:PHE:CA	2.07	0.78
3:A6:1395:LYS:CA	28:Z4:920:SER:N	2.46	0.78
6:D7:537:ARG:NH2	11:I3:173:ARG:HH22	1.81	0.78
9:G1:257:THR:HB	17:O2:250:LEU:HA	1.63	0.78
11:I1:890:TYR:OH	17:O1:234:LEU:O	2.02	0.78
11:I1:899:LEU:HD11	17:O1:230:ILE:O	1.84	0.78
11:I1:965:ALA:HB3	20:R1:165:SER:H	1.49	0.78
11:I2:1019:LEU:N	16:N3:409:ALA:O	2.17	0.78
11:I2:1046:HIS:CA	15:M3:619:ILE:HD11	1.98	0.78
11:I2:1054:ILE:HA	17:O3:280:GLU:CA	2.13	0.78
11:I3:1267:LEU:HA	26:X1:529:TRP:HA	1.66	0.78
11:I3:1275:SER:HB3	26:X1:522:MET:O	1.83	0.78
11:I4:813:ILE:O	26:X3:496:THR:HG22	1.82	0.78
17:O1:103:VAL:CG1	18:P1:326:GLN:NE2	2.39	0.78
17:O4:112:GLY:HA2	18:P1:278:ASN:HB2	1.62	0.78
24:V2:416:ASP:HA	24:V2:443:THR:HG21	1.66	0.78
1:A1:1223:GLU:HG2	2:A2:724:LEU:HB3	1.66	0.78
2:A2:1155:ASN:CB	3:A5:175:GLU:O	2.13	0.78
1:A3:1259:CYS:HB3	3:A6:624:ASP:OD1	1.82	0.78
2:A4:672:ARG:HB3	3:A6:96:PRO:HA	1.66	0.78
2:A4:711:VAL:N	3:A6:462:LEU:HD23	1.99	0.78
2:A4:712:THR:HG23	3:A6:461:ALA:CB	2.05	0.78
2:A4:908:LEU:O	6:D3:555:ARG:CD	2.31	0.78
2:A4:934:TRP:CZ3	4:B6:348:PRO:HG3	2.19	0.78
3:A5:157:TRP:CH2	5:C2:747:PRO:HA	2.19	0.78
3:A5:1365:VAL:CG2	28:Z2:838:GLN:HA	2.13	0.78
3:A6:1410:ALA:N	26:X4:686:ASP:N	2.26	0.78
11:I1:849:LEU:HD12	17:O1:247:TRP:CD2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:946:THR:HA	17:O1:257:ALA:HA	0.83	0.78
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG3	1.62	0.78
11:I2:888:GLU:HG2	16:N3:390:GLU:O	1.84	0.78
11:I2:898:VAL:CG2	17:O3:237:PRO:N	2.47	0.78
11:I2:1021:ILE:HG13	16:N3:410:MET:HB2	1.64	0.78
11:I2:1030:ARG:CB	20:R3:172:ASP:O	2.31	0.78
11:I2:1103:LEU:HB3	20:R3:174:ARG:HB3	1.64	0.78
23:U1:314:ILE:HG22	23:U1:315:LEU:HG	1.64	0.78
2:A2:826:ASN:CG	6:D1:633:LYS:HB2	1.80	0.78
2:A2:1132:PRO:O	3:A5:138:LEU:HD22	1.83	0.78
1:A3:1232:SER:O	3:A6:577:ASP:O	1.96	0.78
1:A3:1248:ILE:H	3:A6:587:VAL:HG13	1.47	0.78
1:A3:1270:SER:HG	3:A6:553:ASP:CB	1.94	0.78
2:A4:677:ALA:N	3:A6:98:LEU:HD12	1.99	0.78
2:A4:692:VAL:CG2	3:A6:380:ALA:HB2	2.14	0.78
2:A4:768:SER:HA	3:A6:477:PHE:N	1.97	0.78
2:A4:870:HIS:CG	6:D3:566:PHE:HD1	1.94	0.78
3:A5:147:LEU:H	5:C2:747:PRO:HG3	1.48	0.78
3:A5:1053:ARG:HE	11:I5:99:ARG:HG3	1.49	0.78
3:A5:1365:VAL:CG2	28:Z2:838:GLN:C	2.52	0.78
11:I1:882:LYS:HB2	17:O1:245:GLU:CA	2.14	0.78
11:I1:1109:LEU:HG	16:N1:438:LEU:CA	2.10	0.78
11:I2:895:ARG:H	17:O3:239:GLN:HB2	1.49	0.78
11:I2:966:TRP:O	20:R3:153:GLN:CB	2.32	0.78
11:I2:1035:GLN:N	16:N3:441:PHE:CZ	2.35	0.78
1:A1:785:ILE:HD11	1:A1:825:ARG:HG2	1.67	0.77
1:A1:1224:PRO:HG3	2:A2:731:ILE:CD1	2.14	0.77
1:A1:1225:PRO:O	2:A2:728:LYS:CG	2.32	0.77
2:A2:968:SER:OG	6:D1:200:HIS:HB2	1.84	0.77
1:A3:1161:ALA:CA	3:A6:647:GLU:O	2.32	0.77
2:A4:80:LYS:HZ2	3:A6:387:THR:HG22	1.49	0.77
2:A4:86:ASN:N	3:A6:393:HIS:N	2.32	0.77
2:A4:227:SER:HB3	6:D3:709:ARG:HA	1.65	0.77
2:A4:576:VAL:HG12	3:A6:509:LYS:HD2	1.65	0.77
2:A4:724:LEU:HD23	3:A6:496:THR:C	2.05	0.77
2:A4:729:SER:HB3	3:A6:678:LEU:HD21	0.88	0.77
2:A4:864:ARG:CB	6:D3:608:ILE:H	1.97	0.77
3:A6:136:GLU:CD	6:D3:603:SER:N	2.33	0.77
8:F1:1091:SER:OG	17:O2:238:ALA:HA	1.84	0.77
11:I1:833:PHE:HD2	17:O1:237:PRO:C	1.88	0.77
11:I1:883:ALA:CB	17:O1:246:LEU:HB3	1.80	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1068:HIS:CE1	16:N1:431:VAL:CB	2.62	0.77
11:I1:1104:LEU:CG	20:R1:174:ARG:CD	2.62	0.77
11:I2:1069:SER:H	16:N3:428:ASP:H	0.79	0.77
21:S2:176:MET:HE2	21:S2:212:LEU:CD1	2.13	0.77
2:A2:874:VAL:CG1	6:D1:611:LYS:HB3	2.14	0.77
2:A2:1153:LEU:HG	3:A5:173:ASN:HA	1.60	0.77
2:A2:1154:PHE:CZ	4:B5:342:ARG:CD	2.58	0.77
1:A3:1332:ARG:NE	6:D3:636:ASP:OD1	2.12	0.77
2:A4:758:HIS:N	3:A6:544:PHE:CD2	2.52	0.77
2:A4:789:LEU:HD21	3:A6:146:LYS:CB	2.04	0.77
2:A4:818:LEU:O	3:A6:147:LEU:HB3	1.84	0.77
2:A4:864:ARG:CB	6:D3:607:PRO:N	2.39	0.77
2:A4:875:LEU:O	6:D3:567:LEU:CD1	2.31	0.77
2:A4:917:LEU:CB	4:B6:342:ARG:HD2	2.15	0.77
2:A4:951:GLU:OE2	3:A6:233:THR:O	2.01	0.77
3:A5:1029:ILE:HG23	11:I5:70:GLU:CA	2.10	0.77
3:A5:1374:ALA:HB1	28:Z2:823:ALA:HB3	0.78	0.77
5:C1:732:LYS:CD	11:I1:1228:GLU:HG3	2.13	0.77
8:F2:1088:GLU:CG	17:O4:248:SER:O	2.14	0.77
11:I1:877:ILE:HB	17:O1:252:VAL:C	2.05	0.77
11:I1:913:ALA:N	15:M1:584:GLN:NE2	2.28	0.77
11:I1:922:ASP:HA	20:R1:163:LEU:HB3	1.66	0.77
11:I1:1032:THR:OG1	15:M1:631:GLN:NE2	2.17	0.77
11:I1:1046:HIS:CG	17:O1:280:GLU:O	2.37	0.77
11:I2:879:VAL:O	17:O3:247:TRP:N	2.07	0.77
11:I2:944:GLU:C	17:O3:256:TYR:HA	2.02	0.77
11:I2:1186:PRO:CD	17:O4:225:GLN:NE2	2.47	0.77
1:A1:1201:ARG:CD	2:A2:734:LEU:CG	2.62	0.77
2:A2:225:THR:HG23	6:D1:706:HIS:HB3	1.65	0.77
2:A2:868:GLN:HB3	6:D1:570:VAL:HG12	1.64	0.77
2:A2:1126:VAL:HG23	3:A5:135:PHE:CG	2.19	0.77
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG22	1.56	0.77
1:A3:1228:TYR:HA	3:A6:576:VAL:CG1	2.14	0.77
2:A4:614:ALA:HB1	3:A6:502:THR:CG2	1.90	0.77
2:A4:683:LEU:O	3:A6:403:ARG:NE	2.16	0.77
2:A4:688:TRP:HE3	3:A6:395:MET:CE	1.77	0.77
2:A4:754:HIS:H	3:A6:540:GLN:NE2	1.81	0.77
2:A4:800:LEU:HA	3:A6:317:GLY:HA3	1.65	0.77
2:A4:801:THR:CB	3:A6:381:LEU:N	2.47	0.77
2:A4:868:GLN:NE2	6:D3:608:ILE:CB	2.46	0.77
2:A4:980:ARG:HA	6:D3:473:GLU:OE2	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1033:GLN:HE22	11:I5:71:GLU:HG2	1.49	0.77
3:A6:442:ARG:NE	6:D3:692:LEU:HD23	1.99	0.77
8:F1:1091:SER:CB	17:O2:241:SER:CA	1.97	0.77
11:I1:923:GLY:HA3	15:M1:591:ASP:N	2.00	0.77
11:I1:987:GLY:N	15:M1:613:ASP:CA	2.21	0.77
11:I2:890:TYR:HB2	17:O3:242:ARG:CB	2.14	0.77
11:I2:917:TYR:N	15:M3:585:LEU:O	2.17	0.77
11:I2:925:LEU:HD13	20:R3:156:GLY:CA	2.10	0.77
11:I2:936:LYS:HE3	15:M3:612:PRO:HG3	1.66	0.77
11:I2:977:ASN:CG	15:M3:621:ARG:HB3	2.03	0.77
11:I2:1038:ILE:HD13	15:M3:617:THR:O	1.83	0.77
23:U2:314:ILE:HG22	23:U2:315:LEU:HG	1.63	0.77
24:V1:548:TYR:OH	25:W1:18:ASP:OD2	2.01	0.77
1:A1:1332:ARG:O	6:D1:637:LYS:HD3	1.84	0.77
1:A3:1056:PHE:HE1	6:D3:812:VAL:H	1.31	0.77
1:A3:1186:TRP:N	3:A6:639:ASN:C	2.37	0.77
2:A4:574:ARG:HH21	3:A6:456:ASP:N	1.82	0.77
2:A4:615:LEU:CD2	3:A6:499:ILE:CD1	2.62	0.77
2:A4:623:SER:CB	3:A6:453:SER:HB3	2.11	0.77
2:A4:720:LEU:HB3	3:A6:493:ALA:O	1.79	0.77
2:A4:802:TYR:CD2	3:A6:397:LEU:HB3	2.20	0.77
2:A4:822:ILE:CG2	3:A6:147:LEU:HD12	2.13	0.77
2:A4:880:ALA:HB1	6:D3:562:GLY:O	1.83	0.77
3:A5:220:VAL:HA	5:C2:738:ASP:HB3	1.66	0.77
3:A5:1365:VAL:HG22	28:Z2:841:ALA:HB3	1.67	0.77
8:F1:1205:TRP:NE1	17:O2:251:ILE:CG2	2.25	0.77
11:I1:947:LEU:O	17:O1:253:LEU:HD22	1.83	0.77
11:I1:976:ARG:N	20:R1:149:ARG:CB	2.48	0.77
11:I1:1013:GLU:O	16:N1:412:ASN:N	2.17	0.77
11:I1:1014:ASN:HA	16:N1:411:GLN:C	2.02	0.77
11:I2:976:ARG:CZ	20:R3:147:LEU:N	2.40	0.77
11:I2:1049:LEU:HD12	15:M3:626:HIS:NE2	1.99	0.77
11:I2:1052:LEU:HD13	16:N3:438:LEU:HD21	1.65	0.77
11:I2:1053:GLY:C	17:O3:279:ILE:C	2.43	0.77
2:A2:1125:LEU:HD23	3:A5:136:GLU:HB2	1.65	0.77
1:A3:1169:LEU:O	3:A6:590:SER:C	2.23	0.77
2:A4:689:LYS:HG2	3:A6:396:ALA:HB2	0.79	0.77
2:A4:793:SER:CB	3:A6:146:LYS:HD2	2.01	0.77
2:A4:818:LEU:O	3:A6:526:ILE:CD1	2.32	0.77
2:A4:825:ARG:NH2	3:A6:564:ASN:CB	2.47	0.77
3:A5:220:VAL:HG13	5:C2:738:ASP:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:531:LEU:HA	11:I3:181:GLN:HB3	1.65	0.77
11:I1:922:ASP:O	15:M1:589:GLY:O	2.01	0.77
11:I1:942:HIS:O	17:O1:260:LEU:CB	2.31	0.77
11:I1:1043:LEU:HD12	20:R1:170:LEU:HD22	1.65	0.77
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD11	1.65	0.77
11:I1:1738:TYR:O	11:I2:1603:ARG:HB3	1.84	0.77
11:I2:875:ARG:O	17:O3:251:ILE:CB	2.27	0.77
11:I2:896:PRO:CD	17:O3:233:THR:HA	2.14	0.77
11:I2:945:LEU:CD1	17:O3:254:ARG:O	2.33	0.77
11:I2:945:LEU:HB2	17:O3:255:GLY:O	1.84	0.77
11:I2:952:LEU:HD12	16:N3:400:LEU:CD2	2.14	0.77
11:I2:998:ALA:HB2	17:O3:267:ALA:CB	2.13	0.77
11:I2:1051:LYS:NZ	17:O3:289:ASP:OD1	2.17	0.77
11:I3:1277:LEU:HG	26:X1:522:MET:CB	2.15	0.77
2:A2:779:ASP:OD2	6:D1:680:SER:HB2	1.83	0.77
2:A2:974:PRO:HD2	6:D1:205:LEU:HD21	1.63	0.77
1:A3:1271:ILE:HG13	3:A6:550:VAL:HB	1.65	0.77
1:A3:1332:ARG:CD	6:D3:636:ASP:HB3	2.14	0.77
2:A4:78:VAL:C	3:A6:385:PRO:CD	2.51	0.77
2:A4:682:ARG:HH22	3:A6:104:PRO:C	1.85	0.77
2:A4:775:LEU:CG	3:A6:479:VAL:CA	2.53	0.77
2:A4:802:TYR:CG	3:A6:397:LEU:HB3	2.20	0.77
2:A4:855:THR:CG2	3:A6:168:ASP:N	2.47	0.77
2:A4:978:ASP:C	6:D3:476:VAL:HG23	2.05	0.77
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD11	1.66	0.77
3:A5:1026:PRO:C	11:I5:67:LYS:CA	2.35	0.77
3:A6:136:GLU:OE2	6:D3:602:THR:C	2.23	0.77
11:I1:841:PHE:CG	17:O1:243:LEU:HD11	2.17	0.77
11:I1:1017:VAL:CG1	17:O1:260:LEU:HD21	2.13	0.77
11:I1:1019:LEU:O	16:N1:409:ALA:HB2	1.79	0.77
11:I2:840:LEU:HB3	17:O3:247:TRP:HD1	1.48	0.77
11:I2:921:GLU:HA	15:M3:592:LEU:O	1.85	0.77
11:I2:962:ILE:O	20:R3:165:SER:OG	1.92	0.77
11:I2:1015:TYR:CB	16:N3:412:ASN:CG	2.52	0.77
11:I2:1043:LEU:CD1	16:N3:430:ARG:O	2.31	0.77
1:A1:1393:THR:OG1	2:A2:851:ASP:OD1	2.03	0.77
1:A3:1091:VAL:HG11	6:D3:807:THR:HB	1.66	0.77
1:A3:1332:ARG:O	6:D3:637:LYS:CG	2.33	0.77
2:A4:607:ARG:O	3:A6:506:SER:N	2.18	0.77
2:A4:670:SER:O	3:A6:100:SER:OG	2.02	0.77
2:A4:889:VAL:HG11	3:A6:171:HIS:HB2	1.45	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:889:VAL:CG2	3:A6:175:GLU:H	1.96	0.77
3:A5:1406:GLY:N	28:Z2:918:PHE:CA	2.44	0.77
3:A5:1416:ARG:HD3	28:Z2:953:LEU:O	1.84	0.77
8:F1:1091:SER:CB	17:O2:241:SER:C	2.53	0.77
11:I1:1055:GLU:HG3	17:O1:277:GLU:C	2.03	0.77
11:I2:890:TYR:HB2	17:O3:242:ARG:HB2	1.64	0.77
11:I2:981:VAL:H	20:R3:147:LEU:CG	1.93	0.77
2:A2:904:GLN:CB	6:D1:603:SER:H	1.98	0.77
1:A3:1188:ASN:O	3:A6:645:PHE:CD2	2.37	0.77
1:A3:1281:LEU:HD13	3:A6:577:ASP:CA	2.14	0.77
2:A4:85:VAL:HG11	3:A6:395:MET:CB	2.14	0.77
2:A4:555:VAL:HG21	3:A6:437:ARG:NH2	1.94	0.77
2:A4:574:ARG:HH21	3:A6:455:LEU:CA	1.92	0.77
2:A4:772:SER:HA	3:A6:489:LEU:HG	0.78	0.77
2:A4:802:TYR:CZ	3:A6:397:LEU:CD2	2.64	0.77
2:A4:910:TYR:CE1	6:D3:564:ASN:ND2	2.53	0.77
3:A5:220:VAL:HG11	5:C2:739:MET:CG	2.14	0.77
3:A5:1069:SER:O	3:A5:1078:ARG:NH1	2.16	0.77
3:A6:1392:ARG:C	28:Z4:913:ILE:CB	2.23	0.77
6:D7:529:VAL:N	11:I3:181:GLN:HE21	1.80	0.77
11:I1:800:PHE:CZ	17:O1:238:ALA:HB2	2.19	0.77
11:I1:1543:LEU:O	12:J2:300:ILE:CB	2.27	0.77
11:I1:1607:GLN:CB	12:J2:298:PHE:CE1	2.65	0.77
11:I1:1670:GLY:HA2	11:I2:1639:LEU:HD22	1.67	0.77
11:I2:928:LEU:HD13	20:R3:151:LYS:CE	2.12	0.77
11:I2:942:HIS:H	17:O3:263:GLN:N	1.83	0.77
11:I2:976:ARG:NH2	20:R3:143:PHE:CG	2.53	0.77
11:I2:1051:LYS:HB2	17:O3:289:ASP:N	1.99	0.77
24:V3:548:TYR:OH	25:W3:18:ASP:OD2	2.01	0.77
28:Z3:113:VAL:HG23	28:Z3:114:GLU:H	1.49	0.77
28:Z4:113:VAL:HG23	28:Z4:114:GLU:H	1.49	0.77
1:A1:1083:SER:OG	6:D1:798:MET:SD	2.41	0.77
1:A1:1204:TRP:CE3	2:A2:757:LEU:HD13	2.20	0.77
2:A2:781:ARG:HD3	6:D1:673:ARG:HH11	1.48	0.77
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD11	1.66	0.77
1:A3:1228:TYR:HB2	3:A6:576:VAL:HG21	1.67	0.77
1:A3:1244:LEU:HD23	3:A6:633:MET:HE1	1.66	0.77
2:A4:643:ALA:HA	3:A6:501:VAL:HG12	1.66	0.77
2:A4:729:SER:N	3:A6:609:GLU:CD	2.25	0.77
2:A4:777:LEU:CB	3:A6:481:ARG:NH1	2.44	0.77
2:A4:877:ALA:N	6:D3:563:GLU:HB3	1.95	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:909:LYS:N	6:D3:552:TYR:OH	2.18	0.77
3:A6:446:LEU:HD11	6:D3:721:PRO:HB3	1.65	0.77
8:F1:1138:TRP:CD2	17:O2:244:GLU:CD	2.58	0.77
11:I1:1032:THR:N	20:R1:176:ARG:HB3	1.33	0.77
11:I1:1042:LEU:O	16:N1:430:ARG:CD	2.30	0.77
11:I2:964:SER:O	20:R3:153:GLN:CD	2.22	0.77
1:A1:1098:ARG:CZ	11:I1:1478:VAL:CG1	2.14	0.77
1:A3:1201:ARG:HB3	3:A6:546:ASN:ND2	1.88	0.77
1:A3:1311:ARG:HG3	3:A6:711:VAL:CG1	2.15	0.77
1:A3:1332:ARG:CD	6:D3:636:ASP:CG	2.52	0.77
2:A4:78:VAL:HA	3:A6:472:SER:OG	1.85	0.77
2:A4:547:GLU:HG3	3:A6:366:ALA:O	1.83	0.77
2:A4:703:SER:CB	3:A6:399:ASP:HA	2.00	0.77
2:A4:794:GLN:HG3	3:A6:144:PHE:CZ	2.19	0.77
2:A4:879:LEU:HB2	6:D3:564:ASN:ND2	2.00	0.77
2:A4:945:ARG:C	4:B6:351:GLU:OE1	2.20	0.77
2:A4:985:ALA:HB1	6:D3:500:LYS:N	1.92	0.77
3:A5:1026:PRO:HA	11:I5:68:ILE:N	2.00	0.77
9:G1:256:GLN:HG2	17:O2:257:ALA:CB	2.13	0.77
11:I1:913:ALA:H	15:M1:584:GLN:CG	1.94	0.77
11:I1:976:ARG:NH1	15:M1:622:VAL:CB	2.29	0.77
11:I1:1070:LEU:HB2	16:N1:429:GLU:HB3	1.67	0.77
11:I1:1543:LEU:HD11	11:I2:1677:LYS:HE2	1.67	0.77
11:I2:990:GLU:C	15:M3:608:LYS:NZ	2.38	0.77
22:T1:829:MET:HE3	22:T1:846:MET:HG2	1.67	0.77
1:A1:874:VAL:HG11	6:D3:272:VAL:CA	2.14	0.76
2:A2:779:ASP:N	6:D1:678:GLY:HA2	1.96	0.76
2:A2:970:PHE:CG	6:D1:196:ILE:HD11	2.19	0.76
1:A3:1233:GLN:CB	3:A6:601:PHE:CE1	2.49	0.76
1:A3:1237:LEU:CD1	3:A6:119:TRP:CZ2	2.68	0.76
1:A3:1261:TYR:CE2	3:A6:616:ALA:HB2	2.20	0.76
2:A4:648:TYR:CD1	3:A6:503:GLN:HG3	2.19	0.76
2:A4:669:LEU:HB3	3:A6:542:LEU:HG	1.67	0.76
2:A4:681:THR:HB	3:A6:431:PHE:HD1	1.47	0.76
2:A4:692:VAL:CG1	3:A6:467:LEU:CD2	1.99	0.76
2:A4:947:LYS:H	4:B6:351:GLU:HB3	1.47	0.76
2:A4:966:LEU:O	6:D3:202:GLN:OE1	1.99	0.76
3:A5:1093:THR:OG1	11:I5:37:GLU:CG	2.27	0.76
3:A6:785:ILE:HD11	3:A6:825:ARG:HG2	1.67	0.76
6:D7:527:ASN:O	11:I3:181:GLN:HG3	1.84	0.76
11:I1:885:GLU:OE2	17:O1:249:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1028:CYS:SG	20:R1:168:LEU:HB3	2.25	0.76
11:I1:1665:LEU:CG	11:I2:1667:GLN:CG	2.19	0.76
11:I2:924:ILE:HB	15:M3:597:LYS:N	2.00	0.76
11:I2:958:THR:HB	16:N3:399:HIS:CG	2.20	0.76
11:I2:977:ASN:OD1	15:M3:621:ARG:CB	2.33	0.76
11:I2:991:THR:H	15:M3:611:LYS:CB	1.98	0.76
11:I2:1035:GLN:HG3	15:M3:623:LEU:C	2.04	0.76
11:I2:1045:PHE:HA	17:O3:280:GLU:HA	1.66	0.76
17:O3:154:ARG:HD2	18:P3:324:LEU:HD13	0.83	0.76
26:X3:141:ASN:O	26:X3:145:ASN:ND2	2.18	0.76
1:A3:1167:CYS:HB2	3:A6:643:ALA:CB	2.14	0.76
1:A3:1186:TRP:CE2	3:A6:640:LEU:HB2	2.21	0.76
1:A3:1189:LEU:CG	3:A6:644:ALA:HB3	2.15	0.76
1:A3:1269:ALA:HA	3:A6:554:GLN:HB2	1.65	0.76
2:A4:806:PHE:CG	3:A6:382:SER:HB2	2.20	0.76
2:A4:818:LEU:C	3:A6:147:LEU:CB	2.52	0.76
2:A4:909:LYS:HG2	6:D3:552:TYR:CG	2.19	0.76
3:A5:1360:GLY:H	28:Z2:879:PHE:H	1.34	0.76
3:A6:132:ASP:HB2	6:D3:607:PRO:HD3	1.66	0.76
3:A6:1411:ARG:HH11	26:X4:689:ALA:HB2	0.94	0.76
11:I1:915:ALA:HB3	15:M1:582:THR:C	2.05	0.76
11:I1:984:GLU:CA	15:M1:614:ASP:O	2.33	0.76
11:I1:1665:LEU:HB2	11:I2:1667:GLN:CD	2.06	0.76
11:I2:900:ARG:CA	17:O3:232:LYS:CE	2.31	0.76
11:I2:902:GLN:OE1	17:O3:235:ASN:ND2	2.18	0.76
11:I2:978:LYS:NZ	20:R3:155:GLU:HB3	2.00	0.76
11:I2:980:ILE:CA	15:M3:618:GLN:CA	2.50	0.76
11:I2:1031:ALA:CB	20:R3:168:LEU:CD2	2.57	0.76
11:I4:819:MET:HE1	27:Y3:178:PHE:CD1	2.20	0.76
21:S1:654:LYS:CA	21:S2:1153:GLN:O	2.33	0.76
2:A2:874:VAL:CG1	6:D1:611:LYS:CG	2.62	0.76
1:A3:1189:LEU:CD2	3:A6:614:ALA:HB1	1.92	0.76
1:A3:1236:GLN:HE21	3:A6:573:ARG:NH1	1.81	0.76
1:A3:1271:ILE:O	3:A6:550:VAL:CG2	2.34	0.76
2:A4:669:LEU:HA	3:A6:542:LEU:CD1	2.15	0.76
2:A4:679:TYR:HB3	3:A6:101:TYR:CD2	2.20	0.76
2:A4:680:LEU:C	3:A6:405:PHE:CZ	2.52	0.76
2:A4:715:GLU:OE1	3:A6:516:TRP:NE1	2.17	0.76
2:A4:983:LEU:CD1	6:D3:553:PHE:CA	2.63	0.76
3:A5:165:PHE:CB	5:C2:743:LEU:HB2	2.07	0.76
3:A6:483:HIS:HB2	6:D3:675:ARG:HD3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1399:ARG:HH21	28:Z4:968:ARG:N	1.77	0.76
11:I1:880:MET:N	17:O1:250:LEU:H	1.83	0.76
11:I1:935:GLY:N	15:M1:605:THR:N	2.19	0.76
11:I1:947:LEU:CG	17:O1:256:TYR:CE2	2.68	0.76
11:I1:990:GLU:HG2	17:O1:275:LEU:HB3	1.65	0.76
11:I1:1066:LEU:N	16:N1:430:ARG:CD	2.37	0.76
11:I2:841:PHE:O	15:M3:591:ASP:HB2	1.85	0.76
11:I2:946:THR:CA	17:O3:257:ALA:HA	2.15	0.76
11:I2:954:GLU:HB3	16:N3:403:VAL:N	2.01	0.76
11:I2:955:LYS:HE2	16:N3:396:ILE:O	1.85	0.76
11:I2:957:SER:CA	20:R3:168:LEU:CA	2.55	0.76
11:I2:1035:GLN:CG	15:M3:623:LEU:O	2.23	0.76
11:I2:1059:PRO:HA	17:O3:273:ASP:O	1.84	0.76
11:I3:1269:ARG:HA	26:X1:524:SER:O	1.85	0.76
24:V1:416:ASP:HA	24:V1:443:THR:HG21	1.66	0.76
26:X4:141:ASN:O	26:X4:145:ASN:ND2	2.18	0.76
1:A1:1054:SER:OG	6:D1:809:ALA:CB	2.32	0.76
2:A2:1151:THR:CA	5:C2:733:LEU:CD1	2.47	0.76
2:A2:1155:ASN:HB2	3:A5:175:GLU:O	1.84	0.76
1:A3:1124:ARG:N	3:A6:599:ARG:NH2	2.11	0.76
1:A3:1162:ASN:HB2	3:A6:649:GLY:N	1.99	0.76
1:A3:1186:TRP:HE3	3:A6:641:ALA:CB	1.96	0.76
2:A4:673:HIS:NE2	3:A6:541:PRO:HB3	1.99	0.76
2:A4:719:ARG:HD3	3:A6:513:GLN:CD	2.05	0.76
2:A4:880:ALA:HB2	6:D3:558:LYS:CE	2.16	0.76
2:A4:987:LYS:HG3	6:D3:497:PHE:CZ	2.21	0.76
3:A5:175:GLU:OE1	5:C2:733:LEU:CG	2.34	0.76
3:A6:518:GLU:C	6:D3:686:ASP:CB	2.53	0.76
8:F1:1266:MET:CA	17:O2:265:ASN:HD22	1.98	0.76
9:G1:256:GLN:CG	17:O2:257:ALA:HB2	2.14	0.76
11:I1:923:GLY:HA3	15:M1:591:ASP:CA	2.14	0.76
11:I1:957:SER:CB	20:R1:168:LEU:HA	2.15	0.76
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB2	1.66	0.76
11:I2:895:ARG:CA	17:O3:236:ASP:N	2.46	0.76
11:I2:1021:ILE:CD1	16:N3:410:MET:HG3	2.15	0.76
11:I2:1033:PRO:HG3	20:R3:177:LEU:CD1	1.78	0.76
1:A1:868:GLN:O	6:D3:277:ASN:HB2	1.83	0.76
2:A2:1135:ARG:CG	3:A5:138:LEU:HD11	2.09	0.76
1:A3:1166:LEU:HA	3:A6:594:LEU:CA	2.16	0.76
1:A3:1170:ILE:HG21	3:A6:591:ASP:OD1	1.83	0.76
1:A3:1186:TRP:HA	3:A6:641:ALA:CB	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1198:GLU:CB	3:A6:678:LEU:O	2.26	0.76
1:A3:1399:ARG:HD2	2:A4:884:ARG:O	1.85	0.76
2:A4:496:THR:HG23	3:A6:366:ALA:HB2	0.77	0.76
2:A4:682:ARG:CZ	3:A6:106:ALA:N	2.49	0.76
2:A4:789:LEU:HD23	3:A6:145:THR:C	2.06	0.76
2:A4:816:LYS:HG2	3:A6:157:TRP:HE1	1.50	0.76
2:A4:892:SER:HA	3:A6:232:LEU:CB	2.15	0.76
2:A4:955:CYS:N	4:B6:345:LYS:CA	2.48	0.76
2:A4:970:PHE:HA	6:D3:192:TYR:CE2	2.20	0.76
2:A4:987:LYS:HG3	6:D3:497:PHE:HZ	1.49	0.76
3:A5:1024:ASP:HB2	11:I5:94:GLU:C	2.04	0.76
3:A6:445:THR:OG1	6:D3:718:LYS:CE	2.24	0.76
3:A6:842:ARG:HH22	8:F2:777:ASN:ND2	1.82	0.76
3:A6:1416:ARG:O	28:Z4:1003:VAL:N	2.19	0.76
11:I1:945:LEU:CD2	17:O1:258:GLU:N	2.49	0.76
11:I2:948:ALA:C	17:O3:253:LEU:O	2.23	0.76
11:I2:1038:ILE:HD12	15:M3:617:THR:OG1	1.84	0.76
11:I3:1271:GLU:OE1	26:X1:504:ILE:HG22	1.83	0.76
21:S3:678:GLU:N	21:S4:1141:GLU:C	2.37	0.76
21:S3:678:GLU:H	21:S4:1141:GLU:C	1.88	0.76
1:A1:1400:SER:OG	2:A2:885:LEU:CD2	2.33	0.76
2:A2:970:PHE:CB	6:D1:498:GLU:OE1	2.33	0.76
2:A4:85:VAL:CG1	3:A6:405:PHE:HD1	1.91	0.76
2:A4:538:ALA:CB	3:A6:359:LEU:O	2.33	0.76
2:A4:760:LEU:CD1	3:A6:388:GLU:HG3	2.02	0.76
2:A4:897:ASN:HB2	3:A6:177:ILE:N	2.00	0.76
2:A4:1055:ARG:CD	6:D4:762:ARG:C	2.53	0.76
3:A5:777:LEU:HD12	3:A5:822:ILE:HD11	1.66	0.76
6:D7:527:ASN:O	11:I3:181:GLN:NE2	2.18	0.76
8:F1:1262:HIS:CD2	17:O2:259:ASP:CG	2.59	0.76
11:I1:874:LEU:CA	17:O1:251:ILE:O	2.32	0.76
11:I1:895:ARG:HH21	17:O1:233:THR:HG21	1.51	0.76
11:I1:916:ALA:CA	15:M1:586:ASP:HA	2.15	0.76
11:I1:962:ILE:HG21	20:R1:166:LEU:CD2	2.10	0.76
11:I2:998:ALA:CB	17:O3:267:ALA:HB1	2.15	0.76
11:I2:1038:ILE:CD1	15:M3:617:THR:O	2.34	0.76
11:I2:1039:ALA:CA	20:R3:170:LEU:CD2	2.43	0.76
11:I2:1104:LEU:HD21	16:N3:433:GLU:HG3	0.79	0.76
28:Z1:113:VAL:HG23	28:Z1:114:GLU:H	1.49	0.76
2:A2:825:ARG:HH12	6:D1:679:ILE:HD11	1.48	0.76
2:A2:968:SER:O	6:D1:203:PRO:CD	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1121:LEU:HB3	3:A5:133:LYS:H	1.51	0.76
1:A3:1083:SER:HB2	6:D3:798:MET:HE2	1.03	0.76
1:A3:1233:GLN:HG2	3:A6:578:ILE:CB	2.15	0.76
2:A4:555:VAL:H	3:A6:458:THR:CB	1.98	0.76
2:A4:577:ASP:HA	3:A6:453:SER:HB2	0.81	0.76
2:A4:701:ILE:HB	3:A6:466:ALA:CB	2.12	0.76
2:A4:702:SER:C	3:A6:399:ASP:CA	2.53	0.76
2:A4:720:LEU:HB2	3:A6:512:GLU:CA	2.14	0.76
2:A4:737:PRO:C	3:A6:89:LEU:HD13	2.06	0.76
2:A4:810:PRO:HA	3:A6:251:ILE:O	1.86	0.76
2:A4:890:ALA:HA	3:A6:175:GLU:CG	2.15	0.76
2:A4:893:LEU:HD11	3:A6:175:GLU:HB2	1.67	0.76
2:A4:1055:ARG:HD3	6:D4:762:ARG:HB3	1.09	0.76
3:A5:1369:ILE:CD1	28:Z2:832:PHE:H	1.99	0.76
6:D3:283:LEU:HD12	6:D3:284:GLY:N	2.01	0.76
6:D5:283:LEU:HD12	6:D5:284:GLY:N	2.01	0.76
8:F1:1093:LEU:CD2	17:O2:241:SER:HA	2.15	0.76
8:F1:1137:GLN:HB2	17:O2:245:GLU:CA	2.16	0.76
8:F2:1090:PRO:C	17:O4:245:GLU:HA	1.97	0.76
9:G1:263:MET:SD	17:O2:260:LEU:HD22	2.25	0.76
11:I1:877:ILE:HB	17:O1:252:VAL:CA	2.14	0.76
11:I1:935:GLY:H	15:M1:605:THR:H	1.29	0.76
11:I1:955:LYS:HE2	16:N1:397:GLU:CA	2.15	0.76
11:I1:990:GLU:HG3	17:O1:275:LEU:CD2	1.98	0.76
11:I1:1540:LYS:HE2	11:I2:1739:GLU:HB2	1.65	0.76
11:I2:797:LEU:HD22	17:O3:245:GLU:HG2	1.67	0.76
11:I2:950:LEU:HD23	15:M3:606:LEU:HG	1.67	0.76
11:I2:1036:PRO:CG	17:O3:287:LEU:HD21	2.16	0.76
11:I2:1040:HIS:HE2	16:N3:437:VAL:CG2	1.98	0.76
11:I2:1609:GLY:CA	12:J1:295:TYR:HE1	1.99	0.76
11:I3:1267:LEU:CD1	26:X1:529:TRP:HE3	1.62	0.76
11:I3:1267:LEU:HG	26:X1:529:TRP:CE2	2.20	0.76
11:I4:1270:LYS:CD	26:X3:527:VAL:CG1	2.63	0.76
17:O2:111:TYR:H	18:P2:325:ILE:CG1	1.95	0.76
17:O3:151:LEU:CD2	18:P3:325:ILE:CG1	0.76	0.76
17:O4:109:PRO:CD	18:P4:318:PRO:CG	2.58	0.76
17:O4:110:LEU:CG	18:P4:321:ILE:HB	2.14	0.76
2:A2:867:GLU:HG3	6:D1:593:ARG:HH21	1.49	0.76
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ2	1.49	0.76
2:A2:874:VAL:HG13	6:D1:611:LYS:HB2	1.68	0.76
1:A3:835:THR:CG2	6:D1:302:PRO:CB	2.47	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1083:SER:HB3	6:D3:798:MET:CE	0.53	0.76
1:A3:1165:ASP:HB2	3:A6:598:VAL:HG23	1.65	0.76
1:A3:1269:ALA:C	3:A6:554:GLN:CA	2.52	0.76
2:A4:87:GLN:N	3:A6:392:LEU:HA	2.00	0.76
2:A4:635:ARG:CZ	3:A6:600:LYS:O	2.31	0.76
2:A4:710:LEU:O	3:A6:490:PHE:CG	2.39	0.76
2:A4:976:LEU:HD21	6:D3:501:LEU:O	1.84	0.76
2:A4:978:ASP:O	6:D3:475:ALA:N	2.19	0.76
3:A5:172:PRO:CD	5:C2:730:HIS:CD2	2.66	0.76
3:A5:1024:ASP:HB3	11:I5:98:ALA:HB2	1.66	0.76
3:A5:1392:ARG:HG3	28:Z2:866:GLU:C	2.04	0.76
3:A5:1414:PHE:CG	28:Z2:960:CYS:CB	2.53	0.76
3:A6:136:GLU:OE1	6:D3:604:ASP:C	2.02	0.76
3:A6:442:ARG:NH1	6:D3:741:ILE:HG23	2.00	0.76
6:D2:283:LEU:HD12	6:D2:284:GLY:N	2.01	0.76
6:D7:537:ARG:HB3	11:I3:43:LYS:HZ2	1.51	0.76
9:G1:266:ASP:CA	16:N2:412:ASN:CA	2.61	0.76
11:I1:955:LYS:HG2	16:N1:397:GLU:O	1.84	0.76
11:I2:849:LEU:CD1	17:O3:247:TRP:CE3	2.69	0.76
11:I2:951:LYS:CG	16:N3:400:LEU:O	2.33	0.76
11:I2:1048:GLU:CB	17:O3:284:LYS:CA	2.64	0.76
11:I3:1277:LEU:HD11	26:X1:511:TYR:HD2	1.41	0.76
23:U3:70:LEU:HD22	23:U3:343:ILE:HD11	1.68	0.76
1:A1:1222:ALA:N	2:A2:723:PHE:CZ	2.53	0.76
2:A2:871:ASN:CB	6:D1:571:SER:HB2	2.16	0.76
2:A2:982:THR:CB	6:D1:494:LEU:O	2.34	0.76
1:A3:1132:PRO:HD3	3:A6:653:ARG:NH2	1.96	0.76
1:A3:1229:VAL:CG2	3:A6:574:ARG:HB3	2.13	0.76
1:A3:1230:TYR:HD2	3:A6:575:LEU:HD13	1.51	0.76
1:A3:1265:ASN:O	3:A6:552:PHE:HB2	1.86	0.76
1:A3:1389:SER:O	3:A6:225:THR:OG1	2.03	0.76
2:A4:75:LEU:HD11	3:A6:321:ASP:O	1.43	0.76
2:A4:542:LEU:CD2	3:A6:364:HIS:ND1	2.01	0.76
2:A4:551:GLN:O	3:A6:108:SER:CB	2.21	0.76
2:A4:551:GLN:CG	3:A6:107:SER:HA	2.15	0.76
2:A4:710:LEU:CA	3:A6:480:VAL:HG22	2.14	0.76
2:A4:728:LYS:HG2	3:A6:548:LEU:CD2	2.15	0.76
2:A4:807:SER:CB	3:A6:383:PRO:O	2.33	0.76
2:A4:816:LYS:HE3	3:A6:157:TRP:HD1	1.50	0.76
2:A4:825:ARG:CZ	3:A6:564:ASN:HD22	1.97	0.76
2:A4:857:LYS:HD3	3:A6:129:ASN:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:909:LYS:CG	6:D3:552:TYR:CG	2.67	0.76
3:A5:222:ALA:CB	5:C2:739:MET:SD	2.73	0.76
3:A5:1027:HIS:ND1	11:I5:66:LEU:N	2.18	0.76
3:A6:520:GLU:HG3	6:D3:681:ALA:CA	2.14	0.76
3:A6:1151:THR:CA	5:C6:733:LEU:HD12	2.15	0.76
6:D7:283:LEU:HD12	6:D7:284:GLY:N	2.01	0.76
8:F1:1138:TRP:H	17:O2:244:GLU:C	1.89	0.76
8:F1:1266:MET:HA	17:O2:265:ASN:HD22	1.45	0.76
11:I1:1028:CYS:CB	20:R1:169:GLY:O	2.34	0.76
11:I1:1034:ASP:HB2	15:M1:630:LEU:CD1	2.16	0.76
11:I1:1067:PHE:CG	16:N1:432:TYR:N	2.54	0.76
11:I1:1114:VAL:N	16:N1:435:ALA:HB3	2.01	0.76
11:I1:1673:VAL:N	11:I2:1611:PHE:HA	1.99	0.76
11:I2:875:ARG:O	17:O3:251:ILE:CG2	2.34	0.76
11:I2:899:LEU:HD23	17:O3:235:ASN:CB	2.15	0.76
11:I2:899:LEU:CD2	17:O3:235:ASN:OD1	2.33	0.76
11:I2:1034:ASP:O	16:N3:441:PHE:CG	2.37	0.76
11:I4:1275:SER:O	26:X3:518:ASP:HA	1.86	0.76
22:T4:829:MET:HE3	22:T4:846:MET:HG2	1.68	0.76
1:A1:777:LEU:HD12	1:A1:822:ILE:HD11	1.66	0.76
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CD2	2.60	0.76
2:A2:980:ARG:CG	6:D1:526:LEU:N	2.46	0.76
1:A3:1169:LEU:HB3	3:A6:593:ALA:HB3	1.67	0.76
2:A4:92:ASP:OD1	3:A6:104:PRO:C	2.23	0.76
2:A4:231:SER:OG	6:D3:709:ARG:NH2	2.17	0.76
2:A4:549:ALA:HB2	3:A6:365:MET:HE3	1.59	0.76
2:A4:775:LEU:HG	3:A6:478:ASP:O	1.85	0.76
2:A4:795:GLN:O	3:A6:250:PHE:CZ	2.38	0.76
2:A4:986:THR:HG22	6:D3:504:LYS:CD	2.12	0.76
3:A5:1029:ILE:HG23	11:I5:69:GLY:CA	2.16	0.76
3:A6:485:ASN:HB2	6:D3:674:TYR:N	1.93	0.76
6:D1:283:LEU:HD12	6:D1:284:GLY:N	2.01	0.76
11:I1:797:LEU:HD13	17:O1:245:GLU:HG2	1.67	0.76
11:I1:952:LEU:HG	15:M1:599:ILE:HG23	1.66	0.76
11:I1:1048:GLU:CB	17:O1:284:LYS:O	2.34	0.76
11:I1:1659:VAL:C	11:I2:1663:LYS:HZ1	1.89	0.76
11:I1:1669:ARG:CZ	11:I2:1610:VAL:CG1	2.64	0.76
11:I2:877:ILE:N	17:O3:254:ARG:HB3	2.01	0.76
11:I2:916:ALA:HB3	15:M3:586:ASP:O	1.85	0.76
11:I2:1030:ARG:CA	20:R3:172:ASP:O	2.33	0.76
11:I2:1037:THR:CB	15:M3:624:ASN:ND2	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1058:GLY:CA	17:O3:277:GLU:HA	2.07	0.76
21:S3:676:GLU:CB	21:S4:1146:ALA:HA	2.14	0.76
24:V3:416:ASP:HA	24:V3:443:THR:HG21	1.66	0.76
2:A2:979:GLY:H	6:D1:496:LEU:CD1	1.99	0.75
1:A3:777:LEU:HD12	1:A3:822:ILE:HD11	1.66	0.75
1:A3:1224:PRO:CB	3:A6:500:LYS:HB2	1.71	0.75
2:A4:550:VAL:O	3:A6:434:PHE:CD2	2.27	0.75
2:A4:687:LEU:CD1	3:A6:476:PHE:HZ	1.98	0.75
2:A4:692:VAL:CG1	3:A6:467:LEU:CG	2.64	0.75
2:A4:773:PHE:HD1	3:A6:469:PHE:CE2	2.04	0.75
2:A4:773:PHE:HA	3:A6:561:VAL:HG13	1.66	0.75
2:A4:857:LYS:C	3:A6:131:PRO:HA	2.05	0.75
2:A4:859:GLN:HB2	3:A6:131:PRO:CD	2.17	0.75
2:A4:908:LEU:CD2	6:D3:601:PHE:HB2	2.16	0.75
2:A4:917:LEU:CD1	3:A6:175:GLU:OE1	2.34	0.75
2:A4:951:GLU:CB	4:B6:347:LEU:HG	2.14	0.75
2:A4:988:ARG:HD2	6:D3:500:LYS:HG2	1.66	0.75
3:A6:564:ASN:HD21	6:D3:679:ILE:CD1	1.97	0.75
6:D6:797:GLY:O	22:T3:767:MET:C	2.25	0.75
11:I1:916:ALA:C	16:N1:389:PHE:CZ	2.56	0.75
11:I1:922:ASP:HB3	15:M1:589:GLY:CA	2.12	0.75
11:I1:935:GLY:HA3	15:M1:604:ASN:C	1.96	0.75
11:I1:1607:GLN:CG	11:I2:1739:GLU:HG2	2.11	0.75
11:I2:899:LEU:HD11	17:O3:234:LEU:H	1.49	0.75
11:I2:1020:ALA:HB2	16:N3:409:ALA:H	1.48	0.75
11:I2:1025:LEU:HD22	20:R3:170:LEU:HD13	1.66	0.75
11:I2:1040:HIS:HE2	16:N3:437:VAL:CB	1.99	0.75
11:I2:1046:HIS:C	17:O3:284:LYS:CG	2.54	0.75
11:I2:1068:HIS:ND1	16:N3:428:ASP:HA	2.00	0.75
11:I5:535:ASP:C	25:W2:8:HIS:N	2.40	0.75
23:U1:70:LEU:HD22	23:U1:343:ILE:HD11	1.68	0.75
23:U3:278:GLN:H	25:W4:192:GLN:HE22	1.32	0.75
26:X1:141:ASN:O	26:X1:145:ASN:ND2	2.18	0.75
26:X2:141:ASN:O	26:X2:145:ASN:ND2	2.18	0.75
1:A1:874:VAL:CB	6:D3:272:VAL:HB	2.16	0.75
2:A2:780:GLU:HB3	6:D1:677:GLN:HB2	1.69	0.75
1:A3:785:ILE:HD11	1:A3:825:ARG:HG2	1.67	0.75
1:A3:1083:SER:CB	6:D3:798:MET:CE	0.83	0.75
1:A3:1198:GLU:O	2:A4:729:SER:O	2.05	0.75
1:A3:1260:ALA:CB	3:A6:719:ARG:NE	2.49	0.75
1:A3:1271:ILE:HG12	3:A6:554:GLN:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:643:ALA:C	3:A6:501:VAL:O	2.25	0.75
2:A4:682:ARG:CG	3:A6:432:VAL:O	2.33	0.75
2:A4:775:LEU:CB	3:A6:489:LEU:CD1	2.28	0.75
2:A4:792:VAL:CG1	3:A6:248:VAL:CG1	2.49	0.75
2:A4:864:ARG:HD3	6:D3:609:ILE:N	2.01	0.75
2:A4:897:ASN:CA	3:A6:165:PHE:CD1	2.68	0.75
2:A4:990:GLU:OE2	6:D3:556:ASP:O	2.04	0.75
3:A5:187:THR:HA	5:C2:746:PRO:CD	2.13	0.75
3:A5:1151:THR:CA	5:C5:733:LEU:HD12	2.15	0.75
3:A6:520:GLU:CD	6:D3:636:ASP:CA	2.55	0.75
8:F1:982:PRO:HB2	11:I1:1388:GLU:OE2	1.86	0.75
8:F1:1267:ARG:HG3	17:O2:265:ASN:CB	2.17	0.75
11:I1:922:ASP:HA	20:R1:163:LEU:CB	2.17	0.75
11:I1:955:LYS:HD2	17:O1:249:ARG:HH22	1.49	0.75
11:I1:967:SER:HB2	15:M1:625:GLY:HA2	0.76	0.75
11:I1:1018:LYS:HE3	16:N1:413:VAL:HA	0.98	0.75
11:I1:1048:GLU:HG3	17:O1:288:GLU:N	2.01	0.75
11:I2:931:VAL:O	15:M3:605:THR:CG2	2.31	0.75
11:I2:950:LEU:HD22	16:N3:410:MET:CE	2.16	0.75
11:I2:957:SER:CA	20:R3:167:GLN:C	2.40	0.75
22:T3:829:MET:HE3	22:T3:846:MET:HG2	1.67	0.75
1:A1:871:ASN:OD1	6:D3:278:LEU:C	2.13	0.75
1:A1:878:LEU:HD12	6:D3:276:GLY:HA2	1.68	0.75
1:A3:1237:LEU:CD2	3:A6:119:TRP:HZ2	1.83	0.75
1:A3:1249:PHE:CE1	3:A6:584:GLY:HA2	1.73	0.75
1:A3:1258:VAL:H	3:A6:623:SER:HB2	1.49	0.75
2:A4:537:ALA:HB3	3:A6:362:PHE:O	1.85	0.75
2:A4:614:ALA:CB	3:A6:502:THR:HG21	1.92	0.75
2:A4:676:LEU:CG	3:A6:499:ILE:HD13	2.17	0.75
2:A4:868:GLN:CG	6:D3:570:VAL:HB	2.16	0.75
2:A4:892:SER:C	3:A6:232:LEU:HB3	2.07	0.75
3:A5:1370:ALA:N	28:Z2:825:TYR:O	2.19	0.75
3:A6:1369:ILE:N	28:Z4:874:ASN:CB	2.49	0.75
8:F1:1262:HIS:CG	17:O2:259:ASP:CA	2.57	0.75
8:F1:1262:HIS:HA	17:O2:259:ASP:HA	1.67	0.75
9:G1:263:MET:CB	17:O2:260:LEU:HB2	2.17	0.75
9:G2:257:THR:C	17:O4:259:ASP:H	1.89	0.75
11:I1:846:ILE:CD1	15:M1:594:LYS:HB3	1.89	0.75
11:I1:942:HIS:N	17:O1:260:LEU:HA	2.01	0.75
11:I1:947:LEU:O	16:N1:407:ALA:HB3	1.85	0.75
11:I1:953:LEU:N	16:N1:403:VAL:CG1	2.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1037:THR:OG1	15:M1:624:ASN:ND2	2.11	0.75
11:I1:1061:ASP:CA	17:O1:279:ILE:CD1	2.65	0.75
11:I1:1118:LEU:CD1	16:N1:432:TYR:CE2	2.68	0.75
11:I2:950:LEU:HB2	16:N3:407:ALA:CA	2.14	0.75
11:I2:1104:LEU:CG	16:N3:433:GLU:OE2	2.34	0.75
1:A1:1223:GLU:HG3	2:A2:734:LEU:CD1	2.15	0.75
2:A2:909:LYS:O	6:D1:555:ARG:HG3	1.86	0.75
2:A2:1094:ILE:CG2	6:D2:759:GLN:HB3	2.15	0.75
2:A2:1154:PHE:HE1	4:B5:342:ARG:HD2	0.96	0.75
2:A4:231:SER:HB3	6:D3:709:ARG:HH21	1.35	0.75
2:A4:670:SER:H	3:A6:542:LEU:HG	1.52	0.75
2:A4:682:ARG:HG3	3:A6:431:PHE:CD1	1.63	0.75
2:A4:854:VAL:HG13	3:A6:172:PRO:C	2.06	0.75
2:A4:978:ASP:O	6:D3:476:VAL:N	2.19	0.75
3:A5:160:ILE:HD13	5:C2:743:LEU:CD1	2.12	0.75
3:A5:995:VAL:O	11:I5:61:LYS:HB2	1.82	0.75
3:A5:999:SER:O	11:I5:64:LYS:CG	2.33	0.75
3:A5:1026:PRO:CG	11:I5:73:TYR:HB2	2.15	0.75
3:A5:1368:GLN:HB2	28:Z2:841:ALA:CA	2.06	0.75
3:A5:1372:THR:HB	28:Z2:828:LEU:N	2.02	0.75
3:A6:777:LEU:HD12	3:A6:822:ILE:HD11	1.66	0.75
3:A6:1403:MSE:CA	26:X4:741:GLN:O	2.34	0.75
11:I1:885:GLU:O	16:N1:397:GLU:CD	2.23	0.75
11:I1:911:PRO:CB	15:M1:584:GLN:NE2	2.50	0.75
11:I1:984:GLU:C	15:M1:613:ASP:CA	2.55	0.75
11:I1:1026:TYR:CD1	20:R1:175:GLN:CD	2.47	0.75
11:I1:1607:GLN:CD	11:I2:1739:GLU:H	1.89	0.75
11:I2:895:ARG:CB	17:O3:234:LEU:O	2.34	0.75
11:I2:980:ILE:HG23	15:M3:621:ARG:HB2	0.85	0.75
11:I2:1037:THR:OG1	20:R3:169:GLY:CA	2.34	0.75
1:A1:868:GLN:CA	6:D3:280:GLN:CB	2.63	0.75
2:A2:867:GLU:CG	6:D1:593:ARG:NH2	2.49	0.75
2:A4:549:ALA:HB3	3:A6:365:MET:CE	1.80	0.75
2:A4:646:ILE:CD1	3:A6:500:LYS:HG2	2.15	0.75
2:A4:781:ARG:HH12	3:A6:522:GLY:HA3	1.49	0.75
2:A4:806:PHE:CD2	3:A6:382:SER:HB2	2.22	0.75
2:A4:886:PHE:CD1	3:A6:174:PRO:O	2.39	0.75
2:A4:948:ALA:CB	4:B6:351:GLU:OE1	2.35	0.75
3:A5:157:TRP:N	5:C2:741:THR:CG2	2.49	0.75
3:A5:785:ILE:HD11	3:A5:825:ARG:HG2	1.67	0.75
3:A5:1005:PHE:HE1	11:I5:67:LYS:HE3	0.97	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:804:SER:CB	22:T3:764:PHE:CD2	2.67	0.75
8:F1:1264:ARG:NE	17:O2:263:GLN:C	2.36	0.75
8:F1:1264:ARG:CB	17:O2:263:GLN:HA	2.08	0.75
11:I1:950:LEU:HG	15:M1:606:LEU:HD21	1.67	0.75
11:I2:877:ILE:CG1	17:O3:254:ARG:CB	0.82	0.75
11:I2:887:GLN:CD	16:N3:393:ILE:CA	2.01	0.75
11:I2:899:LEU:HD11	17:O3:234:LEU:CB	2.17	0.75
11:I2:937:TYR:HB3	17:O3:258:GLU:HA	1.67	0.75
11:I2:951:LYS:CB	17:O3:253:LEU:HD22	2.08	0.75
11:I2:1045:PHE:HZ	16:N3:431:VAL:O	1.69	0.75
11:I2:1045:PHE:CE1	17:O3:279:ILE:HG21	2.22	0.75
11:I4:767:ASP:OD1	11:I4:771:ASN:ND2	2.20	0.75
17:O4:107:THR:HG21	18:P4:321:ILE:HD11	1.67	0.75
24:V2:292:ILE:HD12	24:V2:292:ILE:H	1.52	0.75
2:A2:779:ASP:H	6:D1:678:GLY:CA	1.98	0.75
2:A2:1114:ILE:CD1	5:C2:731:LYS:CB	2.58	0.75
2:A2:1152:ASP:OD1	3:A5:168:ASP:HB3	1.87	0.75
1:A3:1183:LEU:HD12	3:A6:638:GLU:HB2	1.67	0.75
1:A3:1233:GLN:HG2	3:A6:578:ILE:HD13	1.68	0.75
2:A4:615:LEU:HB3	3:A6:509:LYS:H	1.49	0.75
2:A4:946:LYS:HB2	4:B6:350:GLU:C	2.06	0.75
3:A5:1011:TYR:OH	11:I5:54:LYS:CG	2.34	0.75
3:A6:1367:THR:CG2	28:Z4:876:LEU:H	1.99	0.75
6:D4:283:LEU:HD12	6:D4:284:GLY:N	2.01	0.75
6:D6:283:LEU:HD12	6:D6:284:GLY:N	2.01	0.75
8:F1:1136:GLN:C	17:O2:248:SER:OG	2.24	0.75
11:I1:767:ASP:OD1	11:I1:771:ASN:ND2	2.20	0.75
11:I1:843:GLU:HG2	15:M1:587:GLU:OE1	1.86	0.75
11:I1:924:ILE:C	15:M1:597:LYS:H	1.88	0.75
11:I1:955:LYS:CE	16:N1:397:GLU:C	2.29	0.75
11:I1:1027:ALA:CB	20:R1:172:ASP:CG	2.45	0.75
11:I1:1034:ASP:OD1	15:M1:627:LEU:HD23	1.85	0.75
11:I1:1055:GLU:CG	17:O1:280:GLU:CG	2.61	0.75
11:I1:1109:LEU:N	16:N1:441:PHE:H	1.63	0.75
11:I2:887:GLN:CB	16:N3:393:ILE:HG12	1.98	0.75
11:I2:947:LEU:N	17:O3:260:LEU:CD2	2.50	0.75
11:I2:977:ASN:N	20:R3:149:ARG:N	2.34	0.75
1:A1:1204:TRP:CZ3	2:A2:734:LEU:CD1	2.70	0.75
2:A2:227:SER:HB2	6:D1:711:PHE:CG	2.21	0.75
2:A4:701:ILE:HG12	3:A6:466:ALA:N	2.00	0.75
2:A4:710:LEU:C	3:A6:490:PHE:CB	2.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:710:LEU:H	3:A6:480:VAL:CG2	1.99	0.75
2:A4:722:ASN:OD1	3:A6:578:ILE:CD1	2.34	0.75
2:A4:756:ALA:O	3:A6:388:GLU:HA	1.87	0.75
2:A4:908:LEU:HD21	6:D3:602:THR:N	2.01	0.75
2:A4:976:LEU:CG	6:D3:472:PHE:HD2	1.92	0.75
3:A6:1398:LYS:CE	28:Z4:921:THR:CB	2.63	0.75
6:D7:537:ARG:HB3	11:I3:43:LYS:NZ	2.02	0.75
8:F1:1267:ARG:CG	17:O2:265:ASN:CG	2.30	0.75
11:I1:960:SER:CB	16:N1:395:GLU:OE2	2.33	0.75
11:I1:1104:LEU:CG	20:R1:174:ARG:HD2	2.16	0.75
11:I1:1667:GLN:CD	11:I2:1665:LEU:CB	2.54	0.75
11:I5:1279:THR:OG1	26:X2:520:GLU:C	2.24	0.75
22:T2:829:MET:HE3	22:T2:846:MET:HG2	1.67	0.75
2:A2:227:SER:OG	6:D1:711:PHE:HD2	1.70	0.75
2:A2:911:TYR:HE2	6:D1:555:ARG:NH2	1.84	0.75
2:A2:965:LYS:HE2	6:D1:196:ILE:C	2.08	0.75
2:A2:1129:PRO:HA	3:A5:139:ASN:O	1.87	0.75
1:A3:1229:VAL:HG13	3:A6:574:ARG:C	2.07	0.75
2:A4:688:TRP:CB	3:A6:395:MET:HG2	2.12	0.75
2:A4:701:ILE:HD12	3:A6:466:ALA:HB2	1.57	0.75
2:A4:718:GLU:OE2	3:A6:121:PRO:HB2	1.87	0.75
2:A4:735:ALA:CB	3:A6:682:ARG:HE	1.94	0.75
2:A4:771:ILE:CD1	3:A6:476:PHE:CD1	2.69	0.75
2:A4:772:SER:HB2	3:A6:477:PHE:CE1	2.20	0.75
2:A4:772:SER:CA	3:A6:489:LEU:CD1	2.61	0.75
2:A4:854:VAL:CG1	3:A6:174:PRO:HD3	2.16	0.75
2:A4:864:ARG:CB	6:D3:608:ILE:HG12	2.17	0.75
3:A5:234:LEU:HD23	5:C2:738:ASP:HA	1.68	0.75
3:A5:1029:ILE:CA	11:I5:69:GLY:O	2.33	0.75
3:A5:1368:GLN:HA	28:Z2:844:CYS:CB	2.16	0.75
3:A5:1374:ALA:HB3	28:Z2:824:PHE:CA	2.16	0.75
3:A5:1379:GLY:CA	28:Z2:816:THR:H	1.98	0.75
3:A5:1395:LYS:CG	28:Z2:870:ILE:C	2.54	0.75
3:A6:518:GLU:O	6:D3:686:ASP:CB	2.35	0.75
9:G1:254:ASN:ND2	15:M2:606:LEU:HA	2.02	0.75
9:G1:263:MET:CA	16:N2:411:GLN:HB3	1.88	0.75
11:I1:840:LEU:HD22	17:O1:247:TRP:HD1	1.52	0.75
11:I1:928:LEU:CD2	20:R1:155:GLU:HB2	2.17	0.75
11:I1:991:THR:CG2	15:M1:611:LYS:H	1.97	0.75
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG3	1.68	0.75
11:I2:767:ASP:OD1	11:I2:771:ASN:ND2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:947:LEU:C	17:O3:256:TYR:HD2	1.87	0.75
11:I2:1019:LEU:N	16:N3:409:ALA:C	2.40	0.75
11:I2:1034:ASP:HB3	15:M3:630:LEU:HD13	1.69	0.75
11:I2:1044:GLY:CA	17:O3:275:LEU:HD12	2.04	0.75
11:I5:1280:PRO:HG3	26:X2:523:LEU:CD1	2.16	0.75
1:A1:1200:ARG:NH2	2:A2:642:ARG:NH2	2.34	0.75
2:A2:974:PRO:HD2	6:D1:205:LEU:HD23	0.75	0.75
2:A2:980:ARG:NH2	6:D1:503:LEU:CD1	2.50	0.75
1:A3:1021:LEU:CB	6:D3:816:VAL:O	2.34	0.75
1:A3:1054:SER:HA	6:D3:809:ALA:CA	2.17	0.75
1:A3:1124:ARG:NH2	3:A6:599:ARG:N	2.24	0.75
1:A3:1180:ARG:O	3:A6:642:ARG:NH2	2.20	0.75
1:A3:1201:ARG:CB	3:A6:92:ASP:CG	2.47	0.75
1:A3:1273:ALA:N	3:A6:554:GLN:C	2.33	0.75
2:A4:173:ASN:HD21	6:D3:762:ARG:C	1.88	0.75
2:A4:548:LEU:HB2	3:A6:105:GLY:HA2	1.69	0.75
3:A5:1098:ARG:HD3	11:I5:29:GLN:CG	2.16	0.75
3:A6:1391:ARG:HB2	28:Z4:908:LEU:C	2.04	0.75
3:A6:1416:ARG:O	28:Z4:1001:LEU:C	2.24	0.75
11:I1:923:GLY:HA3	15:M1:590:LYS:C	2.06	0.75
11:I1:976:ARG:HH22	15:M1:622:VAL:CG2	1.99	0.75
11:I1:991:THR:HG22	15:M1:611:LYS:N	2.02	0.75
11:I1:1038:ILE:CA	20:R1:169:GLY:HA3	2.17	0.75
11:I2:886:LEU:HB3	17:O3:242:ARG:HG2	1.69	0.75
11:I2:924:ILE:HG13	15:M3:597:LYS:N	1.91	0.75
11:I2:942:HIS:CG	17:O3:259:ASP:OD1	2.39	0.75
24:V4:416:ASP:HA	24:V4:443:THR:HG21	1.66	0.75
1:A1:1221:ILE:HD11	2:A2:618:ALA:HB2	1.60	0.74
2:A2:989:MSE:HE3	6:D1:240:ASP:C	2.01	0.74
1:A3:1123:GLU:CB	3:A6:599:ARG:HD3	2.13	0.74
1:A3:1236:GLN:HB3	3:A6:118:SER:HB2	0.81	0.74
2:A4:556:PRO:HD3	3:A6:456:ASP:HA	1.67	0.74
2:A4:721:ARG:HB3	3:A6:572:ARG:NH2	2.01	0.74
2:A4:757:LEU:CG	3:A6:543:GLY:N	2.50	0.74
2:A4:760:LEU:CD1	3:A6:98:LEU:HB2	2.17	0.74
2:A4:854:VAL:H	3:A6:171:HIS:N	1.84	0.74
2:A4:910:TYR:CD1	6:D3:555:ARG:O	2.40	0.74
2:A4:947:LYS:HD2	3:A6:203:ILE:CG1	2.17	0.74
3:A5:1027:HIS:ND1	11:I5:65:LYS:CA	2.49	0.74
3:A5:1053:ARG:NE	11:I5:99:ARG:HG3	2.02	0.74
3:A5:1368:GLN:CG	28:Z2:841:ALA:HA	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CD	1.85	0.74
9:G1:254:ASN:ND2	17:O2:261:LYS:CE	2.50	0.74
9:G1:256:GLN:NE2	9:G1:263:MET:SD	2.60	0.74
11:I1:947:LEU:HG	16:N1:408:MET:N	2.01	0.74
11:I1:1043:LEU:HG	20:R1:170:LEU:HD13	1.69	0.74
11:I2:797:LEU:HD22	17:O3:245:GLU:CB	2.17	0.74
11:I2:846:ILE:HG21	17:O3:247:TRP:CZ2	2.22	0.74
11:I2:922:ASP:HB3	15:M3:589:GLY:C	2.06	0.74
11:I2:1029:LEU:H	20:R3:171:ALA:C	1.89	0.74
11:I2:1031:ALA:HB1	20:R3:168:LEU:HD22	1.67	0.74
11:I3:1278:ALA:HB3	26:X1:520:GLU:H	1.48	0.74
11:I3:1280:PRO:CD	26:X1:523:LEU:CD1	2.64	0.74
17:O3:148:ARG:HD2	18:P3:325:ILE:HG23	1.68	0.74
21:S1:176:MET:HE3	21:S1:232:LEU:CD1	2.16	0.74
1:A1:1332:ARG:O	6:D1:637:LYS:HG2	1.88	0.74
1:A3:1088:ASN:C	6:D3:808:ASN:HD22	1.89	0.74
1:A3:1196:GLU:N	3:A6:612:ALA:HB3	2.02	0.74
1:A3:1244:LEU:CA	3:A6:633:MET:CE	2.61	0.74
1:A3:1271:ILE:CD1	3:A6:553:ASP:H	1.98	0.74
1:A3:1281:LEU:CD2	3:A6:577:ASP:HA	2.16	0.74
1:A3:1389:SER:CB	3:A6:224:PRO:HB3	2.07	0.74
2:A4:639:ASN:CA	3:A6:603:ASN:O	2.35	0.74
2:A4:674:ASP:H	3:A6:100:SER:HG	1.27	0.74
2:A4:711:VAL:N	3:A6:480:VAL:HG21	2.02	0.74
2:A4:713:ILE:N	3:A6:436:PRO:CD	2.44	0.74
2:A4:718:GLU:CG	3:A6:491:VAL:O	2.35	0.74
2:A4:723:PHE:H	3:A6:495:ASP:HA	1.51	0.74
2:A4:789:LEU:HD21	3:A6:146:LYS:CG	1.99	0.74
2:A4:804:GLN:OE1	3:A6:319:TYR:OH	1.78	0.74
2:A4:823:VAL:CG1	3:A6:130:ILE:HG23	2.05	0.74
2:A4:954:ILE:H	4:B6:345:LYS:CA	1.98	0.74
3:A5:996:ASN:CB	11:I5:59:LEU:N	2.50	0.74
9:G1:253:SER:HB2	15:M2:605:THR:CG2	2.15	0.74
11:I1:840:LEU:HD22	17:O1:247:TRP:CD1	2.22	0.74
11:I1:942:HIS:N	17:O1:260:LEU:N	2.35	0.74
11:I1:976:ARG:HH22	15:M1:622:VAL:HG21	1.50	0.74
11:I1:1040:HIS:CE1	15:M1:623:LEU:HD21	2.21	0.74
11:I2:797:LEU:CG	17:O3:245:GLU:HA	2.15	0.74
11:I2:833:PHE:CE1	17:O3:241:SER:O	2.40	0.74
11:I2:961:ARG:HH22	16:N3:388:LYS:CA	1.95	0.74
11:I2:1025:LEU:HD22	20:R3:170:LEU:CD1	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:767:ASP:OD1	11:I5:771:ASN:ND2	2.20	0.74
24:V1:292:ILE:HD12	24:V1:292:ILE:H	1.52	0.74
2:A2:980:ARG:HH21	6:D1:503:LEU:HB2	0.59	0.74
1:A3:1188:ASN:HB3	3:A6:645:PHE:HD1	1.49	0.74
1:A3:1277:TRP:O	3:A6:625:LEU:HD23	1.71	0.74
2:A4:779:ASP:OD1	3:A6:487:ASP:N	2.20	0.74
2:A4:798:LYS:CD	3:A6:314:TRP:HE1	2.00	0.74
2:A4:878:LEU:HD21	6:D3:607:PRO:C	2.08	0.74
2:A4:886:PHE:CE1	3:A6:176:LEU:CA	2.70	0.74
2:A4:946:LYS:CB	4:B6:350:GLU:C	2.55	0.74
2:A4:1148:ARG:O	5:C4:730:HIS:N	2.20	0.74
3:A5:1363:ASP:HB2	28:Z2:875:LEU:H	1.50	0.74
3:A5:1368:GLN:C	28:Z2:825:TYR:O	2.25	0.74
11:I1:947:LEU:CD1	16:N1:411:GLN:HB3	2.17	0.74
11:I1:1052:LEU:O	17:O1:286:ILE:CG1	2.36	0.74
11:I1:1109:LEU:HA	17:O1:290:TYR:OH	1.87	0.74
18:P1:279:GLY:N	18:P4:326:GLN:NE2	2.35	0.74
21:S4:408:THR:HG22	21:S4:418:TYR:HB2	1.70	0.74
1:A1:870:HIS:CG	6:D3:280:GLN:HA	2.21	0.74
1:A1:1332:ARG:NH2	6:D1:681:ALA:CB	2.49	0.74
1:A3:1163:TYR:CE1	3:A6:648:TYR:HA	2.22	0.74
1:A3:1229:VAL:HG22	3:A6:574:ARG:CG	2.17	0.74
1:A3:1285:LEU:HD11	3:A6:581:LYS:HB2	1.68	0.74
2:A4:678:LEU:CD2	3:A6:103:ARG:C	2.45	0.74
2:A4:714:GLN:C	3:A6:491:VAL:C	2.46	0.74
2:A4:724:LEU:HD22	3:A6:496:THR:HG23	1.68	0.74
2:A4:973:GLU:CB	6:D3:498:GLU:HB2	2.17	0.74
3:A5:1372:THR:OG1	28:Z2:828:LEU:CB	2.35	0.74
3:A6:446:LEU:CG	6:D3:730:ARG:HG3	2.17	0.74
11:I1:920:PHE:CB	17:O1:243:LEU:HD22	2.17	0.74
11:I1:1669:ARG:HB3	11:I2:1664:PHE:HZ	0.94	0.74
11:I2:881:ILE:CG2	17:O3:249:ARG:HH21	1.97	0.74
11:I2:939:ASN:CA	17:O3:264:ILE:C	2.46	0.74
11:I2:1034:ASP:C	16:N3:441:PHE:CD2	2.56	0.74
11:I3:1278:ALA:O	26:X1:520:GLU:CA	2.35	0.74
21:S2:408:THR:HG22	21:S2:418:TYR:HB2	1.69	0.74
1:A3:1186:TRP:HA	3:A6:641:ALA:HB3	1.67	0.74
2:A4:642:ARG:HG3	3:A6:501:VAL:CB	1.96	0.74
2:A4:768:SER:N	3:A6:477:PHE:HD2	1.74	0.74
2:A4:988:ARG:HH21	6:D3:499:LEU:C	1.91	0.74
3:A5:1029:ILE:O	11:I5:69:GLY:O	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:923:GLY:N	15:M1:592:LEU:N	2.28	0.74
11:I1:957:SER:HB3	20:R1:168:LEU:HA	1.69	0.74
11:I1:1019:LEU:HD13	16:N1:412:ASN:HD22	1.52	0.74
11:I1:1029:LEU:HB3	20:R1:174:ARG:HB2	0.78	0.74
11:I1:1103:LEU:O	16:N1:440:GLU:OE1	2.05	0.74
11:I2:962:ILE:CD1	15:M3:596:ILE:HG22	2.11	0.74
11:I2:983:LEU:HD13	15:M3:621:ARG:NH2	2.01	0.74
11:I2:1052:LEU:H	17:O3:286:ILE:CB	2.01	0.74
11:I2:1054:ILE:HG23	17:O3:278:GLU:N	1.93	0.74
11:I2:1064:LYS:C	17:O3:274:GLY:HA2	2.06	0.74
11:I2:1109:LEU:CD1	17:O3:290:TYR:CZ	2.69	0.74
11:I4:819:MET:CE	26:X3:502:MET:CG	2.63	0.74
21:S4:176:MET:HE2	21:S4:212:LEU:CD1	2.17	0.74
21:S4:1032:ILE:CD1	21:S4:1054:LEU:HB2	2.14	0.74
23:U1:250:LEU:HD13	24:V1:317:GLY:HA3	1.70	0.74
26:X3:152:LEU:HD21	26:X3:182:LEU:HB3	1.70	0.74
1:A1:1197:ALA:CB	2:A2:728:LYS:HZ1	1.81	0.74
1:A1:1221:ILE:N	2:A2:642:ARG:O	2.21	0.74
2:A2:973:GLU:CG	6:D1:205:LEU:HD13	2.16	0.74
2:A2:1142:PHE:HZ	3:A5:567:VAL:CB	1.54	0.74
1:A3:1056:PHE:HZ	6:D3:811:LEU:H	1.33	0.74
1:A3:1123:GLU:HB3	3:A6:599:ARG:HD2	1.69	0.74
1:A3:1220:PRO:HG3	2:A4:732:GLN:CD	2.08	0.74
1:A3:1227:PRO:O	3:A6:576:VAL:HG13	1.87	0.74
1:A3:1242:THR:O	3:A6:588:SER:HB2	1.85	0.74
1:A3:1257:VAL:CG1	3:A6:620:GLY:CA	2.58	0.74
1:A3:1260:ALA:HB1	3:A6:719:ARG:HD3	0.74	0.74
2:A4:652:PRO:HA	3:A6:542:LEU:CD1	2.14	0.74
2:A4:705:ILE:H	3:A6:464:PRO:CD	2.01	0.74
2:A4:720:LEU:HD13	3:A6:494:PRO:CB	2.18	0.74
2:A4:726:ALA:HA	3:A6:575:LEU:CG	2.17	0.74
2:A4:760:LEU:HG	3:A6:98:LEU:HD13	1.68	0.74
2:A4:858:ALA:O	6:D3:604:ASP:OD2	2.04	0.74
2:A4:949:PHE:HB3	4:B6:348:PRO:HG3	1.68	0.74
2:A4:974:PRO:CA	6:D3:499:LEU:HD12	2.11	0.74
2:A4:989:MSE:CE	6:D3:240:ASP:OD2	2.35	0.74
11:I1:984:GLU:CB	15:M1:618:GLN:CD	2.54	0.74
11:I1:1048:GLU:CG	17:O1:288:GLU:N	2.49	0.74
11:I1:1063:GLN:C	16:N1:428:ASP:CB	2.54	0.74
11:I1:1070:LEU:N	16:N1:429:GLU:HB3	2.01	0.74
11:I2:916:ALA:HB3	15:M3:586:ASP:C	2.08	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:951:LYS:HG3	16:N3:400:LEU:O	1.88	0.74
11:I2:982:GLN:HB3	15:M3:621:ARG:NH2	2.03	0.74
11:I2:989:GLY:N	15:M3:614:ASP:CB	2.51	0.74
11:I2:1020:ALA:HB1	16:N3:407:ALA:CA	1.84	0.74
11:I4:1273:GLU:CA	26:X3:524:SER:HB3	2.16	0.74
11:I5:536:GLU:HA	25:W2:8:HIS:N	2.02	0.74
17:O4:109:PRO:CD	18:P4:318:PRO:HG2	2.17	0.74
22:T4:871:TYR:CE1	22:T4:910:MET:HB3	2.23	0.74
26:X2:152:LEU:HD21	26:X2:182:LEU:HB3	1.70	0.74
1:A1:1204:TRP:NE1	2:A2:645:PHE:HE1	1.59	0.74
2:A2:780:GLU:HB3	6:D1:677:GLN:CB	2.17	0.74
2:A2:965:LYS:HA	6:D1:199:GLY:CA	2.16	0.74
2:A2:1148:ARG:O	5:C2:730:HIS:N	2.20	0.74
1:A3:1021:LEU:CD1	6:D3:819:ASN:HB2	2.17	0.74
1:A3:1099:GLN:HE21	11:I2:1415:SER:C	1.69	0.74
1:A3:1162:ASN:N	3:A6:647:GLU:HA	2.03	0.74
1:A3:1189:LEU:N	3:A6:645:PHE:HB2	2.02	0.74
1:A3:1249:PHE:HD2	3:A6:633:MET:HG3	0.62	0.74
1:A3:1271:ILE:O	3:A6:550:VAL:CB	2.36	0.74
1:A3:1274:ASP:HB3	3:A6:556:PRO:CB	2.18	0.74
2:A4:652:PRO:N	3:A6:542:LEU:HD13	2.01	0.74
2:A4:761:GLN:NE2	3:A6:546:ASN:N	2.34	0.74
2:A4:794:GLN:HG3	3:A6:144:PHE:CE1	2.23	0.74
6:D5:594:LYS:HZ3	24:V2:255:GLN:HE22	1.34	0.74
8:F1:1262:HIS:CG	17:O2:259:ASP:CB	2.71	0.74
11:I1:877:ILE:HG23	17:O1:253:LEU:HB2	1.70	0.74
11:I1:967:SER:CA	20:R1:153:GLN:OE1	2.35	0.74
11:I1:981:VAL:CG1	20:R1:151:LYS:CG	2.66	0.74
11:I1:1023:ASP:CG	16:N1:405:ALA:HB1	2.08	0.74
11:I1:1024:PHE:HB3	16:N1:406:HIS:CB	2.03	0.74
11:I1:1667:GLN:NE2	11:I2:1662:ARG:HA	1.96	0.74
11:I2:1050:SER:OG	17:O3:288:GLU:O	2.06	0.74
11:I2:1054:ILE:N	17:O3:279:ILE:C	2.28	0.74
11:I3:815:ILE:CG2	26:X1:497:ARG:HB3	2.16	0.74
2:A2:867:GLU:HB2	6:D1:609:ILE:HG12	1.70	0.74
2:A2:1142:PHE:CB	3:A5:130:ILE:CA	2.59	0.74
1:A3:1161:ALA:C	3:A6:647:GLU:C	2.34	0.74
1:A3:1236:GLN:HE21	3:A6:573:ARG:HH11	1.36	0.74
1:A3:1271:ILE:O	3:A6:550:VAL:HB	1.87	0.74
2:A4:75:LEU:O	3:A6:323:THR:CG2	2.18	0.74
2:A4:789:LEU:HD21	3:A6:146:LYS:CA	2.08	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:854:VAL:CG1	3:A6:171:HIS:CG	2.60	0.74
2:A4:897:ASN:CA	3:A6:165:PHE:HD1	2.00	0.74
2:A4:985:ALA:HB1	6:D3:501:LEU:H	1.51	0.74
2:A4:1054:SER:HB3	6:D4:762:ARG:NE	2.03	0.74
3:A5:1395:LYS:CG	28:Z2:870:ILE:O	2.35	0.74
3:A6:442:ARG:CZ	6:D3:692:LEU:CD2	2.66	0.74
11:I1:879:VAL:HG12	17:O1:247:TRP:HB2	1.70	0.74
11:I1:947:LEU:C	16:N1:407:ALA:CB	2.56	0.74
11:I1:962:ILE:HD11	15:M1:596:ILE:CG2	2.16	0.74
11:I1:1046:HIS:CB	17:O1:283:ALA:HB3	2.17	0.74
11:I1:1642:LEU:HD13	11:I2:1669:ARG:HH12	0.68	0.74
11:I2:874:LEU:HA	17:O3:255:GLY:H	1.50	0.74
11:I2:921:GLU:CA	15:M3:592:LEU:HG	2.17	0.74
11:I2:978:LYS:HZ2	20:R3:155:GLU:HB2	1.52	0.74
11:I2:1037:THR:CG2	20:R3:173:LEU:HD23	2.17	0.74
11:I2:1067:PHE:CD2	16:N3:428:ASP:O	2.40	0.74
11:I3:767:ASP:OD1	11:I3:771:ASN:ND2	2.20	0.74
21:S1:597:ILE:H	21:S2:1119:LEU:N	1.86	0.74
21:S1:680:PRO:C	21:S2:1127:GLN:NE2	2.41	0.74
22:T2:871:TYR:CE1	22:T2:910:MET:HB3	2.23	0.74
2:A2:823:VAL:O	2:A2:856:PHE:CE1	2.40	0.74
1:A3:1201:ARG:HB3	2:A4:735:ALA:CA	2.17	0.74
1:A3:1271:ILE:CG1	3:A6:550:VAL:CB	2.39	0.74
1:A3:1306:PRO:HB2	3:A6:715:GLU:OE1	1.88	0.74
2:A4:679:TYR:HE2	3:A6:511:PHE:O	1.70	0.74
2:A4:719:ARG:CG	3:A6:514:GLY:H	2.00	0.74
2:A4:792:VAL:CG2	3:A6:187:THR:OG1	2.35	0.74
2:A4:818:LEU:HD21	3:A6:146:LYS:NZ	2.02	0.74
3:A5:147:LEU:C	5:C2:747:PRO:HB3	2.07	0.74
3:A5:1135:ARG:HE	5:C5:743:LEU:HD12	1.52	0.74
3:A5:1312:ARG:NH2	28:Z2:838:GLN:HA	2.02	0.74
3:A6:1399:ARG:HD3	28:Z4:965:TYR:CB	2.17	0.74
8:F1:1202:TYR:HD1	17:O2:252:VAL:CG2	1.99	0.74
9:G1:260:THR:HG23	17:O2:259:ASP:HB3	1.69	0.74
11:I1:837:MET:CE	17:O1:242:ARG:C	2.51	0.74
11:I1:911:PRO:CA	15:M1:584:GLN:NE2	2.50	0.74
11:I1:934:LEU:CD1	15:M1:599:ILE:O	2.36	0.74
11:I1:957:SER:C	20:R1:168:LEU:HG	2.07	0.74
11:I1:1041:GLN:H	15:M1:620:VAL:CG2	2.01	0.74
11:I2:982:GLN:HB3	15:M3:621:ARG:HH22	1.50	0.74
11:I2:1067:PHE:CD1	16:N3:433:GLU:N	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1067:PHE:CD1	16:N3:429:GLU:O	2.40	0.74
11:I3:1267:LEU:HD23	26:X1:497:ARG:HH21	1.50	0.74
17:O4:110:LEU:H	18:P4:318:PRO:CB	1.99	0.74
22:T1:871:TYR:CE1	22:T1:910:MET:HB3	2.23	0.74
23:U3:250:LEU:HD13	24:V3:317:GLY:HA3	1.70	0.74
2:A2:827:ILE:O	2:A2:863:GLN:HB3	0.92	0.74
2:A2:1054:SER:O	6:D2:762:ARG:CD	2.27	0.74
1:A3:1190:ILE:HD11	3:A6:617:VAL:HG12	1.67	0.74
1:A3:1237:LEU:CB	3:A6:597:GLU:CG	2.58	0.74
1:A3:1271:ILE:C	3:A6:550:VAL:HB	2.09	0.74
2:A4:198:VAL:O	4:B4:353:LEU:HB2	1.88	0.74
2:A4:546:ASN:OD1	3:A6:105:GLY:HA2	1.88	0.74
2:A4:689:LYS:HB3	3:A6:378:ILE:HD13	1.70	0.74
2:A4:702:SER:HB3	3:A6:379:VAL:CG1	2.13	0.74
2:A4:772:SER:HB2	3:A6:477:PHE:HD1	0.68	0.74
2:A4:780:GLU:OE1	3:A6:523:ASN:OD1	2.06	0.74
2:A4:983:LEU:HD12	6:D3:553:PHE:CA	2.18	0.74
3:A5:220:VAL:HG13	5:C2:738:ASP:CB	2.18	0.74
3:A6:442:ARG:CD	6:D3:692:LEU:N	2.51	0.74
9:G1:250:THR:HB	15:M2:605:THR:HG22	1.69	0.74
11:I1:987:GLY:HA2	15:M1:614:ASP:CA	2.18	0.74
11:I1:1024:PHE:HB3	16:N1:406:HIS:ND1	2.02	0.74
11:I2:1017:VAL:HG13	16:N3:410:MET:CB	2.17	0.74
11:I2:1109:LEU:CD2	17:O3:290:TYR:CE2	2.71	0.74
17:O2:111:TYR:H	18:P2:325:ILE:HG21	1.31	0.74
22:T3:871:TYR:CE1	22:T3:910:MET:HB3	2.23	0.74
1:A1:868:GLN:HA	6:D3:280:GLN:CB	2.17	0.73
1:A1:1197:ALA:HB3	2:A2:728:LYS:HZ1	0.92	0.73
1:A1:1223:GLU:OE1	2:A2:761:GLN:CG	2.36	0.73
2:A2:908:LEU:CA	6:D1:601:PHE:C	2.41	0.73
2:A2:909:LYS:N	6:D1:552:TYR:CZ	2.55	0.73
2:A2:980:ARG:HH21	6:D1:503:LEU:CG	2.00	0.73
2:A2:980:ARG:HG3	6:D1:526:LEU:CB	2.16	0.73
1:A3:1311:ARG:HG2	3:A6:712:THR:HG23	1.68	0.73
2:A4:978:ASP:N	6:D3:467:PHE:CE1	2.48	0.73
3:A6:442:ARG:CZ	6:D3:692:LEU:HD23	2.18	0.73
6:D7:176:SER:CB	11:I3:95:LYS:HZ3	1.99	0.73
11:I1:797:LEU:CD2	17:O1:245:GLU:CG	2.64	0.73
11:I1:884:LEU:HD21	15:M1:595:MET:SD	2.27	0.73
11:I2:994:ALA:HB1	17:O3:270:THR:N	2.00	0.73
11:I2:1020:ALA:HB3	16:N3:410:MET:CB	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1274:HIS:CB	26:X3:525:ILE:HG13	2.18	0.73
15:M3:483:LYS:HZ3	16:N4:327:LYS:HE3	1.49	0.73
23:U4:70:LEU:HD22	23:U4:343:ILE:HD11	1.68	0.73
2:A2:1143:LEU:H	3:A5:129:ASN:HB3	1.52	0.73
1:A3:1167:CYS:H	3:A6:594:LEU:HD23	1.52	0.73
2:A4:80:LYS:O	3:A6:324:ARG:NH1	2.20	0.73
2:A4:598:VAL:CG2	3:A6:504:PRO:HD3	2.03	0.73
2:A4:607:ARG:HG2	3:A6:505:ALA:HB3	1.70	0.73
2:A4:801:THR:CA	3:A6:319:TYR:OH	2.36	0.73
2:A4:852:ASP:OD2	3:A6:155:TYR:C	2.26	0.73
2:A4:1151:THR:CG2	5:C4:734:VAL:CB	2.61	0.73
3:A5:172:PRO:HD3	5:C2:730:HIS:CD2	2.22	0.73
3:A5:1026:PRO:HD2	11:I5:66:LEU:HD23	0.81	0.73
3:A5:1361:ARG:O	28:Z2:842:LEU:CB	2.37	0.73
3:A6:1392:ARG:C	28:Z4:913:ILE:N	2.42	0.73
8:F1:158:PRO:CD	11:I1:1207:PRO:HD3	2.18	0.73
8:F1:995:THR:OG1	8:F1:1018:ARG:NH2	2.22	0.73
9:G2:256:GLN:HB3	17:O4:261:LYS:CB	2.17	0.73
9:G2:256:GLN:CD	17:O4:263:GLN:H	1.92	0.73
11:I1:841:PHE:CE2	17:O1:243:LEU:HD12	2.08	0.73
11:I1:928:LEU:C	15:M1:601:ASP:OD1	2.24	0.73
11:I1:1014:ASN:HB3	16:N1:413:VAL:C	2.08	0.73
11:I1:1037:THR:HG23	20:R1:170:LEU:H	1.52	0.73
11:I1:1038:ILE:HG13	20:R1:167:GLN:HG3	1.70	0.73
11:I1:1052:LEU:N	17:O1:286:ILE:HB	2.03	0.73
11:I1:1673:VAL:HG21	11:I2:1610:VAL:HG13	1.69	0.73
11:I2:840:LEU:CD2	17:O3:247:TRP:HB2	2.18	0.73
11:I2:1052:LEU:HG	17:O3:283:ALA:HB1	1.70	0.73
11:I2:1109:LEU:CA	17:O3:290:TYR:CE2	2.70	0.73
23:U2:70:LEU:HD22	23:U2:343:ILE:HD11	1.68	0.73
2:A2:967:GLU:HA	6:D1:202:GLN:CD	2.02	0.73
1:A3:1183:LEU:HD13	3:A6:635:ARG:HA	1.69	0.73
1:A3:1187:ASN:C	3:A6:723:PHE:CZ	2.61	0.73
1:A3:1192:GLN:CA	3:A6:611:ILE:HG22	1.82	0.73
1:A3:1200:ARG:HH12	3:A6:608:VAL:CB	2.00	0.73
1:A3:1228:TYR:CE2	3:A6:556:PRO:HG3	2.23	0.73
1:A3:1235:ILE:O	3:A6:582:ALA:C	2.26	0.73
2:A4:548:LEU:HB3	3:A6:105:GLY:HA3	1.69	0.73
2:A4:680:LEU:HD21	3:A6:470:ARG:HE	1.53	0.73
2:A4:793:SER:OG	3:A6:146:LYS:HD3	1.88	0.73
2:A4:802:TYR:CD2	3:A6:380:ALA:CB	2.64	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:852:ASP:OD1	3:A6:169:TYR:HB3	1.87	0.73
3:A5:165:PHE:H	5:C2:743:LEU:CA	1.99	0.73
3:A5:1027:HIS:CE1	11:I5:65:LYS:CA	2.69	0.73
3:A5:1027:HIS:N	11:I5:66:LEU:HG	2.03	0.73
3:A5:1403:MSE:CB	28:Z2:920:SER:N	2.21	0.73
3:A6:520:GLU:HG2	6:D3:639:LEU:CG	2.18	0.73
9:G2:256:GLN:NE2	9:G2:263:MET:SD	2.60	0.73
11:I1:846:ILE:HB	15:M1:594:LYS:HD2	1.66	0.73
11:I1:939:ASN:O	17:O1:262:ASP:CA	2.25	0.73
11:I1:1048:GLU:HA	20:R1:143:PHE:CE1	2.23	0.73
11:I1:1108:PRO:HB2	16:N1:442:GLU:HB3	1.70	0.73
11:I1:1666:THR:HG21	11:I2:1602:PHE:HD1	1.53	0.73
11:I2:951:LYS:CD	16:N3:403:VAL:N	2.40	0.73
11:I2:966:TRP:CH2	20:R3:167:GLN:HG2	2.22	0.73
11:I2:995:SER:H	17:O3:271:GLU:CB	1.99	0.73
11:I2:1046:HIS:O	17:O3:284:LYS:CA	2.36	0.73
11:I2:1058:GLY:CA	17:O3:277:GLU:O	2.36	0.73
11:I3:1271:GLU:HB3	26:X1:525:ILE:HG22	1.64	0.73
21:S1:686:ALA:CB	21:S2:1152:VAL:HA	2.18	0.73
21:S3:408:THR:HG22	21:S3:418:TYR:HB2	1.70	0.73
21:S3:1032:ILE:CD1	21:S3:1054:LEU:HB2	2.14	0.73
23: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
2:A2:1145:GLY:HA3	3:A5:129:ASN:HD22	1.38	0.73
2:A2:1152:ASP:O	3:A5:175:GLU:C	2.27	0.73
1:A3:1099:GLN:HA	11:I2:1414:CYS:O	1.88	0.73
1:A3:1198:GLU:N	3:A6:678:LEU:HG	1.77	0.73
1:A3:1229:VAL:CG1	3:A6:574:ARG:C	2.52	0.73
1:A3:1241:ARG:HH12	3:A6:593:ALA:HA	0.63	0.73
2:A4:80:LYS:CG	3:A6:323:THR:CB	2.66	0.73
2:A4:691:LYS:CG	3:A6:316:ARG:NE	2.30	0.73
2:A4:867:GLU:CB	6:D3:605:THR:CG2	2.67	0.73
3:A5:1029:ILE:N	11:I5:67:LYS:O	2.21	0.73
3:A5:1392:ARG:HH11	28:Z2:866:GLU:C	1.90	0.73
3:A5:1411:ARG:HH21	26:X2:744:MET:C	1.92	0.73
3:A6:565:THR:CB	6:D3:633:LYS:O	2.32	0.73
3:A6:1367:THR:HG21	28:Z4:876:LEU:CB	2.18	0.73
11:I1:884:LEU:CD1	17:O1:246:LEU:CD2	2.42	0.73
11:I1:955:LYS:CD	16:N1:397:GLU:O	2.36	0.73
11:I1:1017:VAL:H	16:N1:411:GLN:HG3	1.52	0.73
11:I1:1029:LEU:HD13	20:R1:174:ARG:CD	2.10	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1036:PRO:CD	15:M1:626:HIS:HB2	2.12	0.73
11:I2:977:ASN:CB	20:R3:147:LEU:HA	2.01	0.73
11:I2:980:ILE:HD11	20:R3:147:LEU:N	2.03	0.73
11:I2:1055:GLU:CG	17:O3:277:GLU:O	2.35	0.73
11:I2:1426:SER:OG	12:J2:263:MET:SD	2.45	0.73
11:I3:1426:SER:OG	12:J3:263:MET:SD	2.45	0.73
11:I4:819:MET:HE2	26:X3:502:MET:CG	2.17	0.73
24:V3:292:ILE:HD12	24:V3:292:ILE:H	1.52	0.73
2:A2:827:ILE:C	2:A2:863:GLN:HB3	1.81	0.73
2:A2:1142:PHE:CA	3:A5:128:HIS:O	2.36	0.73
1:A3:1162:ASN:O	3:A6:649:GLY:N	2.22	0.73
1:A3:1230:TYR:CD1	3:A6:613:ALA:CB	2.70	0.73
1:A3:1236:GLN:HE21	3:A6:573:ARG:HE	1.28	0.73
1:A3:1392:ARG:HB2	3:A6:225:THR:HG1	1.51	0.73
2:A4:90:GLN:CD	3:A6:427:MET:CG	2.57	0.73
2:A4:534:PRO:O	3:A6:370:PRO:HD3	1.88	0.73
2:A4:825:ARG:HA	3:A6:138:LEU:HD12	1.65	0.73
2:A4:886:PHE:CG	3:A6:174:PRO:O	2.42	0.73
3:A6:484:PRO:CB	6:D3:672:GLU:OE2	2.35	0.73
3:A6:1135:ARG:HE	5:C6:743:LEU:HD12	1.53	0.73
3:A6:1359:LEU:O	28:Z4:918:PHE:CB	2.36	0.73
3:A6:1413:SER:CB	28:Z4:994:ILE:CB	2.67	0.73
8:F1:1094:GLY:C	17:O2:237:PRO:HA	2.08	0.73
8:F2:995:THR:OG1	8:F2:1018:ARG:NH2	2.21	0.73
11:I1:967:SER:OG	15:M1:628:ALA:CB	2.37	0.73
11:I1:1021:ILE:CG1	16:N1:410:MET:HE3	2.13	0.73
11:I1:1048:GLU:OE2	20:R1:143:PHE:HA	1.89	0.73
11:I1:1055:GLU:N	17:O1:281:ALA:N	2.36	0.73
11:I2:955:LYS:NZ	16:N3:400:LEU:HD12	2.04	0.73
11:I2:962:ILE:HB	15:M3:596:ILE:CG2	2.18	0.73
11:I4:1182:GLN:HG3	12:J4:245:GLU:OE2	1.89	0.73
17:O3:158:GLU:HG2	18:P3:315:GLU:CA	2.19	0.73
21:S1:1032:ILE:CD1	21:S1:1054:LEU:HB2	2.14	0.73
1:A1:1220:PRO:O	2:A2:645:PHE:CD1	2.41	0.73
2:A2:874:VAL:HG13	6:D1:611:LYS:HG2	1.66	0.73
2:A2:986:THR:HG22	6:D1:504:LYS:CD	1.92	0.73
1:A3:1198:GLU:HB3	3:A6:678:LEU:CA	2.18	0.73
2:A4:173:ASN:ND2	6:D3:762:ARG:CB	2.51	0.73
2:A4:555:VAL:H	3:A6:458:THR:CA	2.01	0.73
2:A4:712:THR:C	3:A6:490:PHE:CE1	2.61	0.73
2:A4:754:HIS:CA	3:A6:543:GLY:HA3	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:874:VAL:CB	6:D3:571:SER:H	1.95	0.73
2:A4:893:LEU:CD2	3:A6:176:LEU:HA	2.19	0.73
2:A4:899:THR:N	3:A6:178:GLY:CA	2.16	0.73
3:A5:996:ASN:HB3	11:I5:56:ARG:O	1.88	0.73
3:A5:1027:HIS:CE1	11:I5:65:LYS:C	2.62	0.73
3:A5:1160:GLN:HE21	5:C5:740:ARG:HD2	1.52	0.73
3:A6:483:HIS:CB	6:D3:675:ARG:CD	2.64	0.73
8:F1:1264:ARG:CZ	17:O2:264:ILE:HD13	2.19	0.73
8:F2:1088:GLU:O	17:O4:249:ARG:HB2	1.81	0.73
9:G1:254:ASN:OD1	15:M2:605:THR:CB	2.33	0.73
9:G2:256:GLN:CD	17:O4:262:ASP:N	2.42	0.73
11:I1:917:TYR:CE2	15:M1:586:ASP:O	2.41	0.73
11:I1:1037:THR:C	20:R1:169:GLY:HA2	2.09	0.73
11:I1:1070:LEU:H	16:N1:429:GLU:HB3	1.53	0.73
11:I2:888:GLU:HG3	16:N3:393:ILE:HG22	1.69	0.73
11:I2:898:VAL:HG21	17:O3:237:PRO:N	2.03	0.73
11:I2:938:CYS:C	17:O3:261:LYS:CA	2.54	0.73
11:I2:946:THR:C	17:O3:257:ALA:HA	2.09	0.73
11:I2:988:GLU:O	15:M3:608:LYS:CE	2.35	0.73
11:I4:1274:HIS:NE2	26:X3:523:LEU:O	2.16	0.73
11:I5:1277:LEU:C	26:X2:517:ASP:OD1	2.27	0.73
21:S1:1037:CYS:HB3	21:S1:1039:GLU:HG2	1.70	0.73
21:S2:1016:LYS:CE	21:S2:1039:GLU:HG3	2.19	0.73
21:S2:1037:CYS:HB3	21:S2:1039:GLU:HG2	1.70	0.73
26:X1:152:LEU:HD21	26:X1:182:LEU:HB3	1.70	0.73
27:Y1:329:ARG:HG2	27:Y1:344:VAL:HG22	1.70	0.73
2:A2:226:PRO:C	6:D1:708:ASP:O	2.25	0.73
2:A2:1094:ILE:CD1	6:D2:708:ASP:OD1	2.37	0.73
1:A3:1193:SER:HA	3:A6:610:THR:O	1.89	0.73
1:A3:1223:GLU:C	3:A6:496:THR:HG23	2.08	0.73
1:A3:1240:HIS:HE1	3:A6:118:SER:HA	1.49	0.73
1:A3:1266:GLY:H	3:A6:716:ASN:HD22	0.74	0.73
1:A3:1311:ARG:HG3	3:A6:711:VAL:HG12	1.70	0.73
2:A4:616:ALA:HB2	3:A6:509:LYS:HB3	1.69	0.73
2:A4:687:LEU:HD22	3:A6:403:ARG:CG	2.18	0.73
2:A4:717:VAL:CB	3:A6:512:GLU:OE1	2.36	0.73
2:A4:854:VAL:HG12	3:A6:174:PRO:CG	2.12	0.73
3:A5:999:SER:O	11:I5:64:LYS:HE3	1.88	0.73
3:A6:442:ARG:CZ	6:D3:741:ILE:HA	2.17	0.73
3:A6:520:GLU:CB	6:D3:639:LEU:CG	2.66	0.73
11:I1:927:HIS:CD2	15:M1:597:LYS:HD2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:951:LYS:CB	17:O1:253:LEU:HD11	2.18	0.73
11:I1:1043:LEU:HD22	16:N1:430:ARG:HA	1.69	0.73
11:I1:1669:ARG:HD2	11:I2:1605:LEU:HD13	0.80	0.73
11:I2:920:PHE:HZ	17:O3:247:TRP:CZ3	2.07	0.73
11:I2:948:ALA:HB3	17:O3:256:TYR:HB3	1.60	0.73
11:I2:955:LYS:HZ2	17:O3:249:ARG:HH22	1.34	0.73
11:I2:976:ARG:HH21	20:R3:143:PHE:HA	1.53	0.73
11:I2:982:GLN:HB3	15:M3:621:ARG:CZ	2.18	0.73
11:I2:1109:LEU:CB	16:N3:438:LEU:HD23	2.17	0.73
11:I3:617:ARG:NH1	11:I3:658:ARG:O	2.22	0.73
11:I4:617:ARG:NH1	11:I4:658:ARG:O	2.22	0.73
1:A1:874:VAL:HB	6:D3:276:GLY:C	2.08	0.73
2:A2:1151:THR:HG23	5:C2:734:VAL:C	2.09	0.73
2:A4:761:GLN:OE1	3:A6:547:GLU:CB	2.37	0.73
2:A4:770:GLY:C	3:A6:477:PHE:HB2	2.09	0.73
2:A4:777:LEU:CD2	3:A6:526:ILE:HA	2.19	0.73
2:A4:822:ILE:HG23	3:A6:147:LEU:HD12	1.70	0.73
2:A4:866:SER:CA	6:D3:598:ILE:HG12	2.18	0.73
3:A5:220:VAL:CG1	5:C2:739:MET:HG2	2.18	0.73
3:A6:1372:THR:CG2	28:Z4:833:ASP:CB	2.67	0.73
8:F2:1088:GLU:HG2	17:O4:248:SER:O	1.88	0.73
9:G1:255:LEU:CD1	17:O2:258:GLU:H	2.01	0.73
11:I2:1041:GLN:HE21	15:M3:614:ASP:CG	1.92	0.73
11:I3:1276:GLN:HE21	26:X1:534:ILE:C	1.92	0.73
21:S3:1016:LYS:CE	21:S3:1039:GLU:HG3	2.19	0.73
2:A2:870:HIS:NE2	6:D1:551:PHE:C	2.42	0.73
2:A2:1138:GLU:HB3	3:A5:147:LEU:CD2	2.19	0.73
2:A2:1160:GLN:CG	3:A5:176:LEU:HB3	2.18	0.73
1:A3:1090:SER:OG	6:D3:804:SER:CB	2.36	0.73
1:A3:1165:ASP:OD1	3:A6:648:TYR:CE2	2.42	0.73
1:A3:1197:ALA:HB3	2:A4:728:LYS:HZ3	1.52	0.73
1:A3:1236:GLN:HG3	3:A6:577:ASP:O	1.88	0.73
1:A3:1237:LEU:CG	3:A6:119:TRP:CZ2	2.71	0.73
2:A4:81:ALA:CB	3:A6:388:GLU:HB3	2.17	0.73
2:A4:551:GLN:HG2	3:A6:106:ALA:C	2.08	0.73
2:A4:616:ALA:HB2	3:A6:509:LYS:CB	2.19	0.73
2:A4:754:HIS:CE1	3:A6:685:ARG:NH2	2.56	0.73
2:A4:769:GLU:CB	3:A6:528:ILE:CG2	2.66	0.73
2:A4:888:GLN:C	3:A6:171:HIS:CD2	2.61	0.73
2:A4:955:CYS:N	4:B6:345:LYS:HA	2.04	0.73
2:A4:976:LEU:CD2	6:D3:501:LEU:O	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:165:PHE:H	5:C2:743:LEU:HB2	1.46	0.73
3:A5:1367:THR:HB	28:Z2:845:ILE:H	1.48	0.73
3:A5:1414:PHE:HD1	28:Z2:960:CYS:CB	2.01	0.73
3:A6:446:LEU:CD2	6:D3:726:SER:O	2.36	0.73
6:D7:480:PHE:CE2	11:I3:181:GLN:O	2.42	0.73
9:G1:266:ASP:O	16:N2:412:ASN:O	2.07	0.73
11:I2:617:ARG:NH1	11:I2:658:ARG:O	2.22	0.73
11:I2:846:ILE:HG23	15:M3:591:ASP:OD1	1.87	0.73
11:I2:879:VAL:C	17:O3:250:LEU:N	2.41	0.73
11:I2:956:ILE:O	20:R3:166:LEU:HD12	1.83	0.73
11:I2:978:LYS:O	20:R3:151:LYS:HG3	1.89	0.73
17:O3:151:LEU:HD22	18:P3:325:ILE:CG1	0.70	0.73
21:S4:1037:CYS:HB3	21:S4:1039:GLU:HG2	1.70	0.73
26:X2:241:GLU:HG2	26:X2:328:LEU:HD13	1.71	0.73
1:A1:870:HIS:HB3	6:D3:279:HIS:CA	2.18	0.73
2:A2:198:VAL:O	4:B2:353:LEU:HB2	1.88	0.73
1:A3:1186:TRP:CZ3	3:A6:583:LEU:HD23	2.24	0.73
1:A3:1236:GLN:HE21	3:A6:573:ARG:CZ	2.00	0.73
2:A4:685:ARG:NH1	3:A6:432:VAL:HG23	1.55	0.73
2:A4:779:ASP:CG	3:A6:487:ASP:H	1.91	0.73
3:A5:1406:GLY:CA	28:Z2:917:ASP:O	2.37	0.73
3:A5:1415:PHE:C	28:Z2:962:LYS:N	2.41	0.73
11:I1:924:ILE:O	15:M1:597:LYS:HG3	1.89	0.73
11:I1:953:LEU:N	16:N1:403:VAL:HG22	1.74	0.73
11:I1:980:ILE:CG1	20:R1:147:LEU:HD12	2.17	0.73
11:I1:1026:TYR:C	20:R1:172:ASP:HA	2.08	0.73
11:I1:1048:GLU:OE2	20:R1:143:PHE:CA	2.37	0.73
11:I1:1049:LEU:O	17:O1:291:ASP:N	2.21	0.73
11:I1:1635:HIS:CE1	11:I2:1677:LYS:CD	2.65	0.73
11:I2:900:ARG:O	17:O3:232:LYS:HE2	1.89	0.73
11:I2:911:PRO:CB	15:M3:584:GLN:HE22	1.81	0.73
11:I2:1037:THR:N	15:M3:623:LEU:HD22	2.04	0.73
11:I2:1052:LEU:HD23	16:N3:434:LEU:HD11	1.69	0.73
11:I2:1107:SER:N	16:N3:436:ALA:O	2.21	0.73
2:A2:982:THR:CG2	6:D1:497:PHE:N	1.96	0.72
2:A2:1126:VAL:CG2	3:A5:135:PHE:CB	2.46	0.72
1:A3:835:THR:CG2	6:D1:302:PRO:HB2	2.05	0.72
1:A3:1153:LEU:HD13	3:A6:592:ASP:OD1	1.88	0.72
1:A3:1198:GLU:HB3	3:A6:678:LEU:C	2.09	0.72
1:A3:1254:LEU:C	3:A6:638:GLU:OE2	2.26	0.72
2:A4:81:ALA:HB2	3:A6:388:GLU:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:702:SER:HG	3:A6:379:VAL:HG12	1.53	0.72
2:A4:724:LEU:HB3	3:A6:496:THR:HG23	1.66	0.72
2:A4:757:LEU:CG	3:A6:544:PHE:N	2.50	0.72
2:A4:777:LEU:HD12	3:A6:467:LEU:HD13	1.67	0.72
2:A4:878:LEU:HB2	6:D3:567:LEU:HD13	0.73	0.72
2:A4:897:ASN:N	3:A6:177:ILE:C	2.43	0.72
11:I1:882:LYS:N	17:O1:249:ARG:CG	2.51	0.72
11:I1:978:LYS:C	15:M1:621:ARG:HD3	2.09	0.72
11:I1:1043:LEU:CD2	16:N1:430:ARG:HB2	2.19	0.72
11:I1:1061:ASP:CA	17:O1:279:ILE:HD12	2.19	0.72
11:I2:955:LYS:NZ	16:N3:400:LEU:CD1	2.48	0.72
11:I5:503:ARG:NH2	11:I5:504:ALA:O	2.22	0.72
17:O3:102:LYS:HD3	18:P3:322:LYS:HZ2	1.53	0.72
24:V4:292:ILE:HD12	24:V4:292:ILE:H	1.52	0.72
1:A3:1088:ASN:CA	6:D3:808:ASN:ND2	2.52	0.72
1:A3:1165:ASP:CB	3:A6:598:VAL:HG23	1.98	0.72
1:A3:1189:LEU:CG	3:A6:614:ALA:CB	2.66	0.72
1:A3:1227:PRO:CB	3:A6:552:PHE:HE2	1.97	0.72
1:A3:1265:ASN:H	3:A6:716:ASN:CG	1.89	0.72
1:A3:1328:ARG:HD3	3:A6:127:HIS:O	1.88	0.72
2:A4:607:ARG:HG3	3:A6:505:ALA:HB3	1.69	0.72
2:A4:608:VAL:CG1	3:A6:100:SER:O	2.37	0.72
2:A4:648:TYR:CD2	3:A6:503:GLN:HB3	2.24	0.72
2:A4:789:LEU:CD2	3:A6:145:THR:O	2.36	0.72
2:A4:893:LEU:HD12	3:A6:175:GLU:OE2	1.87	0.72
2:A4:1019:ARG:HH12	6:D3:238:ALA:C	1.93	0.72
3:A5:233:THR:CA	5:C2:738:ASP:N	2.49	0.72
3:A5:1416:ARG:C	28:Z2:963:LYS:CA	2.57	0.72
11:I1:617:ARG:NH1	11:I1:658:ARG:O	2.22	0.72
11:I1:853:ILE:CG2	17:O1:254:ARG:CD	2.54	0.72
11:I1:889:THR:H	17:O1:242:ARG:CZ	1.99	0.72
11:I1:1182:GLN:HG3	12:J1:245:GLU:OE2	1.89	0.72
11:I1:1673:VAL:CA	11:I2:1611:PHE:C	2.58	0.72
11:I2:183:LYS:O	11:I2:188:ARG:NH2	2.22	0.72
11:I3:1278:ALA:N	26:X1:519:ILE:HB	2.02	0.72
11:I5:183:LYS:O	11:I5:188:ARG:NH2	2.22	0.72
17:O4:106:HIS:O	18:P4:318:PRO:HD3	1.88	0.72
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HG12	1.98	0.72
1:A1:1200:ARG:NH2	2:A2:642:ARG:HH22	1.87	0.72
2:A2:1130:ARG:C	3:A5:141:GLY:HA2	2.10	0.72
2:A2:1142:PHE:CE1	3:A5:567:VAL:CG2	2.00	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1187:ASN:OD1	3:A6:618:ALA:C	2.27	0.72
1:A3:1248:ILE:HD12	3:A6:587:VAL:HG22	0.74	0.72
2:A4:93:ASP:OD1	3:A6:429:LEU:CD2	2.21	0.72
2:A4:243:ARG:O	2:A4:287:LYS:NZ	2.22	0.72
2:A4:576:VAL:CG1	3:A6:509:LYS:CD	2.65	0.72
2:A4:676:LEU:C	3:A6:98:LEU:HD12	2.09	0.72
2:A4:720:LEU:CD2	3:A6:499:ILE:CD1	2.67	0.72
2:A4:1114:ILE:CD1	5:C4:731:LYS:CB	2.58	0.72
9:G1:260:THR:OG1	17:O2:256:TYR:HA	1.89	0.72
11:I1:913:ALA:HB3	15:M1:584:GLN:CG	2.19	0.72
11:I1:922:ASP:CB	15:M1:589:GLY:HA2	2.15	0.72
11:I1:957:SER:CA	20:R1:166:LEU:CD1	2.66	0.72
11:I1:1020:ALA:HB1	16:N1:405:ALA:C	2.09	0.72
11:I1:1029:LEU:CA	20:R1:171:ALA:C	2.54	0.72
11:I1:1603:ARG:HH12	11:I2:1662:ARG:CB	2.02	0.72
11:I1:1610:VAL:HG11	11:I2:1669:ARG:NH2	2.04	0.72
11:I2:1034:ASP:OD2	15:M3:630:LEU:CD2	2.36	0.72
17:O4:107:THR:C	18:P4:318:PRO:HG3	2.08	0.72
21:S1:408:THR:HG22	21:S1:418:TYR:HB2	1.70	0.72
26:X3:241:GLU:HG2	26:X3:328:LEU:HD13	1.71	0.72
1:A1:1399:ARG:CG	2:A2:884:ARG:CB	2.58	0.72
2:A2:867:GLU:HB2	6:D1:609:ILE:CG1	2.20	0.72
2:A2:1138:GLU:CG	3:A5:562:LEU:HD11	2.19	0.72
1:A3:1226:LEU:HD22	3:A6:549:ALA:C	2.05	0.72
1:A3:1229:VAL:CG1	3:A6:574:ARG:CA	2.65	0.72
2:A4:548:LEU:CB	3:A6:105:GLY:CA	2.68	0.72
2:A4:691:LYS:HD3	3:A6:330:LEU:CD2	2.20	0.72
2:A4:769:GLU:C	3:A6:477:PHE:CB	2.53	0.72
2:A4:855:THR:HB	3:A6:168:ASP:N	2.04	0.72
2:A4:915:ILE:C	4:B6:342:ARG:NH1	2.43	0.72
3:A5:1356:SER:C	28:Z2:878:HIS:C	2.07	0.72
3:A5:1365:VAL:HA	28:Z2:841:ALA:C	2.03	0.72
3:A5:1369:ILE:HG12	28:Z2:832:PHE:H	1.54	0.72
3:A6:485:ASN:HB2	6:D3:674:TYR:H	1.47	0.72
8:F1:1137:GLN:HG3	17:O2:249:ARG:N	2.01	0.72
11:I1:962:ILE:HD12	20:R1:165:SER:N	1.97	0.72
11:I1:980:ILE:HD13	15:M1:622:VAL:H	1.43	0.72
11:I1:1541:GLU:HA	12:J2:298:PHE:O	1.89	0.72
11:I2:951:LYS:HE2	16:N3:404:GLU:CG	2.19	0.72
11:I2:980:ILE:CD1	15:M3:622:VAL:HG21	2.18	0.72
11:I2:1040:HIS:CG	16:N3:434:LEU:HD12	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:503:ARG:NH2	11:I3:504:ALA:O	2.22	0.72
11:I3:1275:SER:CA	26:X1:522:MET:CB	2.64	0.72
11:I4:503:ARG:NH2	11:I4:504:ALA:O	2.22	0.72
2:A2:1160:GLN:CD	3:A5:178:GLY:HA2	2.09	0.72
1:A3:1048:ARG:CD	6:D3:790:ARG:NH2	2.53	0.72
1:A3:1226:LEU:HD13	3:A6:550:VAL:C	2.03	0.72
1:A3:1392:ARG:NE	3:A6:231:SER:CB	2.52	0.72
2:A4:227:SER:HB3	6:D3:709:ARG:CA	2.19	0.72
2:A4:550:VAL:CA	3:A6:455:LEU:HD21	2.20	0.72
2:A4:621:GLN:NE2	3:A6:108:SER:C	2.31	0.72
2:A4:711:VAL:C	3:A6:462:LEU:HD21	2.09	0.72
2:A4:868:GLN:OE1	6:D3:570:VAL:CB	2.37	0.72
2:A4:872:ALA:HB1	6:D3:565:MET:HE3	0.73	0.72
2:A4:895:PRO:HA	4:B6:344:ALA:HB3	1.70	0.72
11:I1:918:SER:OG	16:N1:386:MET:CA	2.31	0.72
11:I1:976:ARG:CZ	15:M1:622:VAL:HG22	2.20	0.72
11:I1:986:ASN:H	15:M1:612:PRO:C	1.72	0.72
11:I1:1662:ARG:CG	11:I2:1603:ARG:HH12	2.02	0.72
11:I2:843:GLU:N	15:M3:587:GLU:OE2	2.22	0.72
11:I2:955:LYS:HG3	16:N3:403:VAL:HG23	1.71	0.72
11:I2:1021:ILE:HG13	16:N3:410:MET:CB	2.19	0.72
11:I2:1110:SER:HB3	16:N3:435:ALA:CA	2.02	0.72
11:I5:617:ARG:NH1	11:I5:658:ARG:O	2.22	0.72
2:A2:225:THR:N	6:D1:709:ARG:NH1	2.38	0.72
2:A2:243:ARG:O	2:A2:287:LYS:NZ	2.22	0.72
2:A2:979:GLY:N	6:D1:472:PHE:HB3	1.94	0.72
2:A2:1139:ILE:CG1	3:A5:130:ILE:CG2	2.42	0.72
1:A3:1049:PHE:C	6:D3:816:VAL:HG21	2.09	0.72
1:A3:1090:SER:HB2	6:D3:800:PRO:HA	1.71	0.72
1:A3:1192:GLN:N	3:A6:645:PHE:CD2	2.57	0.72
1:A3:1201:ARG:C	3:A6:546:ASN:HD21	1.92	0.72
1:A3:1224:PRO:CA	3:A6:500:LYS:HB2	2.15	0.72
2:A4:544:PHE:HD1	3:A6:363:ALA:CB	2.01	0.72
2:A4:552:PHE:CE1	3:A6:109:ASP:CG	2.61	0.72
2:A4:615:LEU:HG	3:A6:511:PHE:N	2.01	0.72
2:A4:682:ARG:NH2	3:A6:103:ARG:O	2.22	0.72
2:A4:720:LEU:HD21	3:A6:499:ILE:HD12	1.72	0.72
2:A4:722:ASN:O	3:A6:605:TYR:OH	2.08	0.72
2:A4:825:ARG:NH2	3:A6:564:ASN:ND2	1.92	0.72
2:A4:898:LEU:HD23	4:B6:343:LYS:C	2.10	0.72
2:A4:898:LEU:CD2	4:B6:344:ALA:HA	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:917:LEU:CB	4:B6:342:ARG:CD	2.65	0.72
2:A4:982:THR:HB	6:D3:494:LEU:HA	1.72	0.72
2:A4:982:THR:OG1	6:D3:494:LEU:O	2.07	0.72
3:A5:1315:VAL:CB	28:Z2:833:ASP:O	2.36	0.72
3:A6:444:ARG:HG3	6:D3:737:PHE:CE2	2.22	0.72
3:A6:520:GLU:HB3	6:D3:639:LEU:CG	2.20	0.72
8:F1:1203:TRP:CZ2	17:O2:248:SER:C	2.63	0.72
11:I1:895:ARG:NE	17:O1:233:THR:HB	2.05	0.72
11:I1:919:ALA:O	15:M1:592:LEU:HB2	1.89	0.72
11:I1:985:ARG:HH11	20:R1:151:LYS:HE3	1.54	0.72
11:I1:1044:GLY:H	15:M1:616:LEU:HD11	1.54	0.72
11:I2:931:VAL:HG23	15:M3:600:ASN:O	1.89	0.72
11:I2:1032:THR:HB	20:R3:173:LEU:CD1	2.13	0.72
11:I2:1049:LEU:HG	17:O3:291:ASP:HB2	1.68	0.72
11:I2:1052:LEU:HD13	16:N3:438:LEU:CD2	2.20	0.72
21:S1:668:ILE:HA	21:S2:1146:ALA:HB3	1.66	0.72
21:S2:1032:ILE:CD1	21:S2:1054:LEU:HB2	2.14	0.72
21:S3:1037:CYS:HB3	21:S3:1039:GLU:HG2	1.70	0.72
21:S4:100:GLU:O	21:S4:103:ASP:N	2.21	0.72
27:Y2:329:ARG:HG2	27:Y2:344:VAL:HG22	1.70	0.72
2:A2:989:MSE:SE	6:D1:241:ALA:H	2.22	0.72
1:A3:1311:ARG:HD2	3:A6:715:GLU:CD	2.10	0.72
2:A4:549:ALA:HB2	3:A6:365:MET:HE1	1.33	0.72
2:A4:611:ILE:CG2	3:A6:508:LEU:HD12	2.12	0.72
2:A4:682:ARG:HG2	3:A6:432:VAL:O	1.88	0.72
2:A4:682:ARG:HH22	3:A6:105:GLY:HA3	1.54	0.72
2:A4:692:VAL:HG13	3:A6:466:ALA:C	2.09	0.72
2:A4:767:ILE:O	3:A6:469:PHE:O	2.07	0.72
3:A5:161[A]:ASP:C	5:C2:744:PHE:HB3	2.10	0.72
3:A6:132:ASP:OD2	6:D3:607:PRO:CA	2.38	0.72
3:A6:446:LEU:CD1	6:D3:722:LEU:H	2.03	0.72
11:I1:953:LEU:N	16:N1:403:VAL:CB	2.53	0.72
11:I1:955:LYS:HE2	16:N1:397:GLU:HA	1.69	0.72
11:I1:987:GLY:CA	15:M1:614:ASP:N	2.52	0.72
11:I1:1040:HIS:C	20:R1:170:LEU:HD21	1.81	0.72
11:I2:981:VAL:CB	20:R3:147:LEU:CG	2.59	0.72
11:I2:985:ARG:H	15:M3:613:ASP:HA	0.91	0.72
11:I2:1021:ILE:HG13	16:N3:410:MET:HE3	1.66	0.72
11:I2:1044:GLY:O	17:O3:280:GLU:CD	2.04	0.72
26:X4:152:LEU:HD21	26:X4:182:LEU:HB3	1.70	0.72
27:Y3:329:ARG:HG2	27:Y3:344:VAL:HG22	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:870:HIS:ND1	6:D3:279:HIS:HE1	1.85	0.72
2:A2:869:ALA:CA	6:D1:583:ILE:HG21	2.19	0.72
2:A2:973:GLU:HB3	6:D1:498:GLU:HG3	1.72	0.72
2:A2:985:ALA:CB	6:D1:500:LYS:H	2.01	0.72
1:A3:1122:LEU:N	3:A6:599:ARG:HH22	1.88	0.72
1:A3:1274:ASP:HB3	3:A6:556:PRO:CG	2.19	0.72
1:A3:1399:ARG:CD	2:A4:884:ARG:O	2.38	0.72
2:A4:87:GLN:HG2	3:A6:408:ALA:O	1.90	0.72
2:A4:678:LEU:CD2	3:A6:431:PHE:CG	2.72	0.72
2:A4:727:ASN:HB2	3:A6:497:GLY:HA2	0.78	0.72
2:A4:898:LEU:HD11	4:B6:342:ARG:HB2	0.79	0.72
3:A5:178:GLY:N	5:C2:740:ARG:NH2	2.36	0.72
3:A5:1359:LEU:HB2	28:Z2:877:ILE:C	2.10	0.72
3:A6:133:LYS:CA	6:D3:604:ASP:CA	2.55	0.72
6:D7:176:SER:CB	11:I3:95:LYS:HZ1	1.99	0.72
11:I1:881:ILE:HD11	17:O1:253:LEU:CG	2.20	0.72
11:I1:881:ILE:H	17:O1:249:ARG:CA	2.02	0.72
11:I1:896:PRO:O	17:O1:232:LYS:CB	2.31	0.72
11:I1:955:LYS:CD	17:O1:249:ARG:HH22	2.03	0.72
11:I1:962:ILE:CD1	20:R1:164:PRO:O	2.36	0.72
11:I1:1046:HIS:HB2	17:O1:280:GLU:C	2.10	0.72
11:I1:1054:ILE:C	17:O1:281:ALA:N	2.43	0.72
11:I2:951:LYS:CE	16:N3:404:GLU:CB	2.64	0.72
11:I2:966:TRP:O	20:R3:150:ASN:O	2.07	0.72
11:I2:979:ALA:CB	20:R3:167:GLN:NE2	2.52	0.72
11:I3:183:LYS:O	11:I3:188:ARG:NH2	2.23	0.72
17:O3:158:GLU:HG3	18:P3:316:LEU:HB2	1.71	0.72
17:O3:158:GLU:HG2	18:P3:315:GLU:C	2.09	0.72
1:A1:1202:GLU:C	2:A2:732:GLN:HA	2.10	0.72
2:A2:826:ASN:HB3	6:D1:633:LYS:O	1.90	0.72
1:A3:1169:LEU:O	3:A6:589:ALA:O	2.08	0.72
1:A3:1172:HIS:CA	3:A6:587:VAL:O	2.37	0.72
1:A3:1188:ASN:HB2	3:A6:642:ARG:O	1.90	0.72
1:A3:1261:TYR:HD1	3:A6:621:GLN:CB	0.65	0.72
2:A4:692:VAL:CG1	3:A6:467:LEU:CA	2.54	0.72
2:A4:753:GLU:OE2	3:A6:95:TYR:O	2.07	0.72
2:A4:873:PRO:HD2	6:D3:569:CYS:SG	2.29	0.72
2:A4:893:LEU:CD1	3:A6:175:GLU:C	2.50	0.72
3:A5:1313:LYS:CA	28:Z2:833:ASP:CB	2.67	0.72
6:D2:622:PHE:HB2	6:D2:645:LEU:HD21	1.72	0.72
8:F1:1094:GLY:HA3	17:O2:237:PRO:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:980:ILE:HB	15:M1:618:GLN:HA	1.72	0.72
11:I1:981:VAL:HG13	20:R1:151:LYS:CB	2.01	0.72
11:I1:1013:GLU:HA	16:N1:411:GLN:CD	2.10	0.72
11:I1:1036:PRO:HD2	15:M1:626:HIS:CB	2.12	0.72
11:I1:1052:LEU:HD23	16:N1:434:LEU:HD12	1.71	0.72
11:I1:1104:LEU:HD22	16:N1:433:GLU:HG3	1.71	0.72
11:I2:936:LYS:HG2	15:M3:609:GLY:O	1.88	0.72
11:I2:1035:GLN:HG3	15:M3:623:LEU:O	1.89	0.72
11:I2:1045:PHE:CD1	17:O3:279:ILE:HG22	2.24	0.72
11:I5:1279:THR:CG2	26:X2:520:GLU:O	2.28	0.72
1:A3:1116:HIS:CB	3:A6:596:ARG:CZ	2.20	0.72
1:A3:1285:LEU:HA	3:A6:581:LYS:HZ1	1.09	0.72
2:A4:616:ALA:CB	3:A6:509:LYS:HB2	2.19	0.72
2:A4:701:ILE:HG12	3:A6:465:SER:C	2.10	0.72
2:A4:779:ASP:OD1	3:A6:486:GLN:CG	2.38	0.72
2:A4:868:GLN:CB	6:D3:570:VAL:HB	1.99	0.72
2:A4:868:GLN:NE2	6:D3:608:ILE:CD1	2.36	0.72
8:F1:1263:MET:C	17:O2:262:ASP:HB3	2.11	0.72
11:I1:846:ILE:CB	17:O1:247:TRP:CZ2	2.73	0.72
11:I1:885:GLU:HA	16:N1:397:GLU:OE1	1.88	0.72
11:I1:887:GLN:CA	17:O1:242:ARG:CB	2.63	0.72
11:I1:984:GLU:CB	15:M1:618:GLN:HG3	2.12	0.72
11:I1:1664:PHE:HA	11:I2:1666:THR:N	1.97	0.72
11:I2:881:ILE:CG2	17:O3:249:ARG:CZ	2.67	0.72
11:I2:1028:CYS:CA	20:R3:173:LEU:H	2.01	0.72
11:I2:1105:TRP:HB2	16:N3:439:ARG:HH21	0.65	0.72
11:I4:1276:GLN:N	26:X3:521:TRP:H	1.87	0.72
21:S1:679:ILE:O	21:S2:1123:LYS:CB	2.38	0.72
21:S1:689:PHE:CB	21:S2:1152:VAL:CB	2.68	0.72
21:S2:683:LEU:N	21:S2:684:THR:CA	2.53	0.72
26:X4:241:GLU:HG2	26:X4:328:LEU:HD13	1.71	0.72
1:A1:832:ASN:CG	6:D3:298:ASN:HB2	2.10	0.71
1:A1:1204:TRP:CD1	2:A2:731:ILE:HG13	2.25	0.71
1:A1:1229:VAL:CB	2:A2:725:GLU:HB3	2.20	0.71
2:A2:866:SER:H	6:D1:605:THR:CA	2.03	0.71
2:A2:1114:ILE:CD1	5:C2:731:LYS:HG3	2.20	0.71
1:A3:1188:ASN:C	3:A6:645:PHE:HB3	2.08	0.71
1:A3:1230:TYR:CD2	3:A6:575:LEU:HD13	2.22	0.71
1:A3:1332:ARG:CB	3:A6:127:HIS:HE1	1.95	0.71
2:A4:92:ASP:HB3	3:A6:365:MET:CE	2.20	0.71
2:A4:670:SER:N	3:A6:542:LEU:CD2	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:678:LEU:HD22	3:A6:431:PHE:CE2	2.25	0.71
2:A4:689:LYS:CA	3:A6:381:LEU:CD2	2.56	0.71
2:A4:689:LYS:CA	3:A6:381:LEU:HD23	2.08	0.71
2:A4:718:GLU:CB	3:A6:121:PRO:HG3	2.19	0.71
2:A4:820:LYS:N	3:A6:147:LEU:HB3	2.03	0.71
2:A4:985:ALA:CB	6:D3:500:LYS:H	1.92	0.71
2:A4:988:ARG:HH22	6:D3:499:LEU:N	1.88	0.71
3:A5:232:LEU:HG	5:C2:739:MET:CG	2.20	0.71
3:A5:1056:PHE:HD2	11:I5:37:GLU:HG3	1.53	0.71
3:A5:1101:GLN:OE1	11:I5:33:THR:CG2	2.37	0.71
6:D7:622:PHE:HB2	6:D7:645:LEU:HD21	1.72	0.71
9:G1:266:ASP:HA	16:N2:412:ASN:CA	2.15	0.71
11:I1:503:ARG:NH2	11:I1:504:ALA:O	2.22	0.71
11:I1:888:GLU:C	17:O1:242:ARG:CZ	2.31	0.71
11:I1:931:VAL:HG22	15:M1:604:ASN:HB2	1.71	0.71
11:I1:983:LEU:HD11	15:M1:604:ASN:OD1	1.89	0.71
11:I1:1065:SER:OG	16:N1:430:ARG:NE	2.23	0.71
11:I2:920:PHE:CZ	17:O3:247:TRP:CH2	2.67	0.71
11:I2:1019:LEU:HD22	16:N3:412:ASN:HD22	1.55	0.71
11:I3:1266:ALA:O	26:X1:527:VAL:O	2.08	0.71
17:O2:107:THR:HG23	18:P2:321:ILE:HG21	1.72	0.71
17:O4:111:TYR:H	18:P1:278:ASN:HB3	1.55	0.71
1:A1:1200:ARG:CZ	2:A2:642:ARG:HH22	2.03	0.71
1:A1:1224:PRO:CG	2:A2:731:ILE:CB	2.64	0.71
2:A2:1135:ARG:HA	3:A5:147:LEU:HG	1.71	0.71
1:A3:1274:ASP:CB	3:A6:556:PRO:C	2.30	0.71
2:A4:757:LEU:CD1	3:A6:95:TYR:O	2.26	0.71
2:A4:757:LEU:HD22	3:A6:95:TYR:CE2	2.24	0.71
2:A4:791:ALA:O	3:A6:249:SER:OG	2.07	0.71
2:A4:802:TYR:CG	3:A6:397:LEU:CD2	2.73	0.71
2:A4:853:VAL:HB	3:A6:170:THR:HA	1.72	0.71
2:A4:868:GLN:OE1	6:D3:571:SER:N	2.21	0.71
2:A4:907:SER:O	6:D3:552:TYR:CE1	2.43	0.71
2:A4:951:GLU:HG2	3:A6:234:LEU:N	2.03	0.71
2:A4:973:GLU:CG	6:D3:192:TYR:CE2	2.74	0.71
6:D1:622:PHE:HB2	6:D1:645:LEU:HD21	1.72	0.71
11:I1:928:LEU:O	15:M1:601:ASP:OD1	2.07	0.71
11:I2:874:LEU:O	17:O3:251:ILE:C	2.29	0.71
11:I2:976:ARG:CZ	20:R3:147:LEU:H	2.02	0.71
11:I2:1429:TYR:OH	12:J2:267:GLY:HA2	1.90	0.71
11:I3:1429:TYR:OH	12:J3:267:GLY:HA2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:O3:148:ARG:CD	18:P3:325:ILE:HG23	2.19	0.71
21:S1:654:LYS:H	21:S2:1156:ILE:C	1.93	0.71
21:S3:601:LEU:N	21:S4:1156:ILE:CA	2.52	0.71
2:A2:857:LYS:O	6:D1:606:LYS:HE2	1.90	0.71
2:A2:909:LYS:HZ1	6:D1:197:VAL:HG23	1.53	0.71
1:A3:1114:ILE:O	3:A6:592:ASP:HB2	1.90	0.71
1:A3:1185:THR:CA	3:A6:639:ASN:O	2.37	0.71
1:A3:1236:GLN:NE2	3:A6:573:ARG:NH1	2.38	0.71
2:A4:684:VAL:HG13	3:A6:403:ARG:HH21	1.54	0.71
2:A4:686:THR:CB	3:A6:398:THR:OG1	2.37	0.71
2:A4:754:HIS:CE1	3:A6:685:ARG:CZ	2.73	0.71
2:A4:771:ILE:HD12	3:A6:476:PHE:CD2	2.26	0.71
2:A4:780:GLU:OE1	3:A6:523:ASN:HA	1.77	0.71
2:A4:974:PRO:C	6:D3:499:LEU:CD1	2.59	0.71
3:A5:232:LEU:CD2	5:C2:738:ASP:N	2.51	0.71
3:A6:1392:ARG:NH1	28:Z4:909:LEU:H	1.88	0.71
8:F1:1261:TYR:CE2	17:O2:259:ASP:O	2.37	0.71
11:I1:183:LYS:O	11:I1:188:ARG:NH2	2.22	0.71
11:I1:879:VAL:HA	17:O1:245:GLU:O	1.90	0.71
11:I1:920:PHE:CZ	17:O1:247:TRP:CD1	2.75	0.71
11:I1:936:LYS:CB	15:M1:605:THR:HB	2.19	0.71
11:I1:962:ILE:HD11	15:M1:596:ILE:HG22	1.71	0.71
11:I1:1056:PRO:HB3	17:O1:278:GLU:HG3	1.72	0.71
11:I2:945:LEU:HD12	17:O3:254:ARG:O	1.90	0.71
11:I4:183:LYS:O	11:I4:188:ARG:NH2	2.22	0.71
11:I5:1429:TYR:OH	12:J5:267:GLY:HA2	1.90	0.71
21:S3:596:ILE:O	21:S4:1155:GLN:O	1.91	0.71
21:S4:1016:LYS:CE	21:S4:1039:GLU:HG3	2.19	0.71
2:A2:823:VAL:HG22	2:A2:856:PHE:CE1	2.24	0.71
2:A2:973:GLU:CB	6:D1:192:TYR:CE2	2.73	0.71
2:A2:1131:ILE:HA	3:A5:160:ILE:HG21	1.72	0.71
2:A2:1160:GLN:HA	3:A5:178:GLY:CA	2.21	0.71
1:A3:1056:PHE:CZ	6:D3:811:LEU:N	2.57	0.71
1:A3:1258:VAL:HG22	3:A6:621:GLN:O	1.90	0.71
1:A3:1281:LEU:HB3	3:A6:625:LEU:HG	1.71	0.71
1:A3:1325:MET:HE3	3:A6:126:ARG:NH2	2.03	0.71
2:A4:688:TRP:CE3	3:A6:395:MET:HE2	2.25	0.71
2:A4:757:LEU:CG	3:A6:543:GLY:H	2.03	0.71
2:A4:864:ARG:CB	6:D3:608:ILE:N	2.53	0.71
2:A4:1151:THR:HG23	5:C4:734:VAL:C	2.10	0.71
3:A5:1403:MSE:HB3	28:Z2:920:SER:N	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1371:GLY:O	28:Z4:871:HIS:CB	2.39	0.71
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CB	2.04	0.71
11:I1:797:LEU:CD1	17:O1:245:GLU:HG2	2.16	0.71
11:I1:1020:ALA:HB3	16:N1:406:HIS:C	2.09	0.71
11:I1:1426:SER:OG	12:J1:263:MET:SD	2.45	0.71
11:I2:952:LEU:CG	17:O3:250:LEU:HD11	2.19	0.71
11:I2:955:LYS:HZ1	16:N3:400:LEU:HD12	1.54	0.71
11:I2:981:VAL:HB	20:R3:147:LEU:HG	1.71	0.71
11:I2:990:GLU:C	17:O3:272:SER:CA	2.58	0.71
11:I2:1039:ALA:HB3	20:R3:170:LEU:CD2	1.87	0.71
11:I2:1050:SER:CA	17:O3:290:TYR:HB2	2.20	0.71
11:I2:1109:LEU:CB	16:N3:438:LEU:CA	2.56	0.71
11:I5:1275:SER:C	26:X2:521:TRP:CG	2.58	0.71
24:V3:170:GLY:HA3	25:W3:12:ILE:HD12	1.72	0.71
26:X1:241:GLU:HG2	26:X1:328:LEU:HD13	1.71	0.71
1:A1:1222:ALA:H	2:A2:723:PHE:HZ	1.34	0.71
2:A2:870:HIS:CD2	6:D1:566:PHE:HD1	1.82	0.71
2:A2:873:PRO:CD	6:D1:568:ARG:HE	1.89	0.71
1:A3:1169:LEU:H	3:A6:594:LEU:CB	2.00	0.71
1:A3:1188:ASN:N	3:A6:642:ARG:HA	2.06	0.71
1:A3:1233:GLN:HG3	3:A6:578:ILE:HD12	1.72	0.71
1:A3:1246:SER:C	3:A6:636:ASN:HD22	1.92	0.71
1:A3:1392:ARG:N	3:A6:225:THR:CB	2.53	0.71
2:A4:83:GLN:NE2	3:A6:324:ARG:NH2	2.37	0.71
2:A4:713:ILE:HG23	3:A6:403:ARG:CZ	2.21	0.71
2:A4:1305:ALA:CB	2:A4:1306:PRO:CD	2.68	0.71
9:G2:256:GLN:CB	17:O4:261:LYS:H	2.02	0.71
11:I1:937:TYR:HB3	17:O1:258:GLU:CG	2.18	0.71
11:I1:950:LEU:CD2	16:N1:406:HIS:NE2	2.52	0.71
11:I1:954:GLU:HB3	16:N1:403:VAL:H	0.89	0.71
11:I1:1035:GLN:H	15:M1:627:LEU:CD2	2.02	0.71
11:I1:1043:LEU:HD23	16:N1:430:ARG:CB	2.20	0.71
11:I1:1052:LEU:H	17:O1:286:ILE:HG22	1.55	0.71
11:I1:1109:LEU:HG	16:N1:438:LEU:CD2	2.18	0.71
11:I2:503:ARG:NH2	11:I2:504:ALA:O	2.22	0.71
11:I3:1278:ALA:O	26:X1:520:GLU:CG	2.37	0.71
11:I4:1277:LEU:HD23	26:X3:517:ASP:CG	2.11	0.71
17:O3:102:LYS:HD3	18:P3:322:LYS:NZ	2.05	0.71
17:O4:107:THR:HA	18:P4:318:PRO:CD	2.20	0.71
21:S1:184:ILE:HD11	21:S1:201:VAL:HG23	1.72	0.71
21:S1:654:LYS:N	21:S2:1156:ILE:C	2.44	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:184:ILE:HD11	21:S3:201:VAL:HG23	1.72	0.71
21:S3:601:LEU:H	21:S4:1156:ILE:CA	2.02	0.71
24:V2:170:GLY:HA3	25:W2:12:ILE:HD12	1.72	0.71
2:A2:1141:GLU:OE1	3:A5:563:THR:OG1	2.05	0.71
1:A3:1091:VAL:HG22	6:D3:808:ASN:HB2	1.73	0.71
1:A3:1192:GLN:N	3:A6:615:LEU:CB	1.69	0.71
1:A3:1201:ARG:HB3	3:A6:549:ALA:HB2	1.55	0.71
1:A3:1201:ARG:HB2	3:A6:682:ARG:NH2	2.06	0.71
1:A3:1221:ILE:CD1	2:A4:641:ALA:C	2.55	0.71
1:A3:1221:ILE:HD11	2:A4:642:ARG:HA	1.71	0.71
1:A3:1223:GLU:O	3:A6:496:THR:C	2.27	0.71
1:A3:1235:ILE:HG13	3:A6:617:VAL:HG21	1.71	0.71
1:A3:1248:ILE:HG12	3:A6:587:VAL:O	1.90	0.71
2:A4:648:TYR:CD2	3:A6:503:GLN:CA	2.73	0.71
2:A4:760:LEU:HD11	3:A6:98:LEU:HB2	1.73	0.71
2:A4:765:GLU:O	3:A6:477:PHE:CE2	2.43	0.71
2:A4:864:ARG:HD3	6:D3:610:ASN:H	1.54	0.71
6:D5:622:PHE:HB2	6:D5:645:LEU:HD21	1.72	0.71
6:D7:176:SER:HB3	11:I3:95:LYS:HZ3	1.51	0.71
6:D7:187:ARG:HH12	11:I3:54:LYS:NZ	1.89	0.71
9:G2:256:GLN:HB2	17:O4:257:ALA:O	1.91	0.71
9:G2:256:GLN:HB2	17:O4:261:LYS:H	1.56	0.71
9:G2:256:GLN:N	17:O4:262:ASP:CG	2.43	0.71
11:I1:797:LEU:CG	17:O1:245:GLU:HG2	2.16	0.71
11:I1:928:LEU:HG	20:R1:155:GLU:CG	2.20	0.71
11:I1:984:GLU:CB	15:M1:618:GLN:CG	2.67	0.71
11:I1:984:GLU:HB2	15:M1:618:GLN:CG	2.20	0.71
11:I1:1114:VAL:CA	16:N1:435:ALA:HB3	2.21	0.71
11:I2:895:ARG:H	17:O3:239:GLN:CB	2.02	0.71
11:I2:895:ARG:CA	17:O3:234:LEU:C	2.59	0.71
11:I2:927:HIS:CB	15:M3:597:LYS:HB3	2.20	0.71
11:I2:980:ILE:C	15:M3:618:GLN:CG	2.58	0.71
11:I2:1050:SER:O	17:O3:286:ILE:O	2.08	0.71
11:I2:1109:LEU:CD2	17:O3:290:TYR:HD2	1.98	0.71
11:I5:1279:THR:OG1	26:X2:520:GLU:O	2.07	0.71
21:S1:683:LEU:N	21:S1:684:THR:CA	2.53	0.71
21:S2:184:ILE:HD11	21:S2:201:VAL:HG23	1.72	0.71
27:Y4:329:ARG:HG2	27:Y4:344:VAL:HG22	1.70	0.71
2:A2:781:ARG:CZ	6:D1:673:ARG:NH1	2.53	0.71
2:A2:870:HIS:NE2	6:D1:551:PHE:CB	2.25	0.71
2:A2:980:ARG:HG2	6:D1:473:GLU:HG2	0.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1273:ALA:H	3:A6:554:GLN:CA	2.02	0.71
1:A3:1392:ARG:CD	3:A6:231:SER:HB2	2.20	0.71
2:A4:683:LEU:HD22	3:A6:110:TYR:CZ	2.25	0.71
2:A4:815:ALA:O	3:A6:527:GLU:HB2	1.91	0.71
2:A4:826:ASN:CG	6:D3:633:LYS:CB	2.51	0.71
2:A4:851:ASP:C	3:A6:171:HIS:H	1.91	0.71
2:A4:861:GLN:HG2	6:D3:606:LYS:NZ	2.06	0.71
2:A4:864:ARG:CA	6:D3:607:PRO:HD2	2.20	0.71
3:A5:1395:LYS:HB2	28:Z2:870:ILE:CA	2.15	0.71
11:I1:797:LEU:HD23	17:O1:241:SER:OG	1.90	0.71
11:I1:934:LEU:CA	15:M1:602:MET:HE3	2.10	0.71
11:I1:976:ARG:HH22	15:M1:622:VAL:CB	2.03	0.71
11:I1:1021:ILE:HG13	16:N1:406:HIS:O	1.91	0.71
11:I1:1046:HIS:HB2	17:O1:280:GLU:CA	2.21	0.71
11:I1:1052:LEU:CA	17:O1:287:LEU:HD13	2.17	0.71
11:I2:894:VAL:HB	17:O3:239:GLN:CB	2.20	0.71
11:I2:961:ARG:HH22	16:N3:389:PHE:N	1.85	0.71
11:I2:978:LYS:NZ	20:R3:154:ALA:C	2.44	0.71
11:I2:1059:PRO:CB	17:O3:275:LEU:N	2.48	0.71
11:I2:1066:LEU:C	16:N3:430:ARG:CG	2.42	0.71
11:I2:1182:GLN:HG3	12:J2:245:GLU:OE2	1.89	0.71
11:I5:1182:GLN:HG3	12:J5:245:GLU:OE2	1.89	0.71
21:S1:1016:LYS:CE	21:S1:1039:GLU:HG3	2.19	0.71
21:S3:676:GLU:CB	21:S4:1146:ALA:N	2.54	0.71
23:U1:62:VAL:HG12	23:U1:66:LYS:HE3	1.73	0.71
2:A2:973:GLU:CB	6:D1:498:GLU:HG3	2.21	0.71
1:A3:1201:ARG:CG	3:A6:549:ALA:N	2.43	0.71
1:A3:1223:GLU:O	3:A6:496:THR:HG23	1.88	0.71
1:A3:1231:VAL:HG12	3:A6:617:VAL:CG2	2.21	0.71
1:A3:1311:ARG:CG	3:A6:711:VAL:HG12	2.06	0.71
1:A3:1392:ARG:CZ	3:A6:231:SER:CB	2.68	0.71
2:A4:687:LEU:HD22	3:A6:403:ARG:HG3	1.71	0.71
2:A4:710:LEU:O	3:A6:490:PHE:CD2	2.43	0.71
2:A4:781:ARG:NH1	6:D3:673:ARG:HH12	1.89	0.71
2:A4:792:VAL:CB	3:A6:187:THR:OG1	2.39	0.71
2:A4:864:ARG:HH11	6:D3:607:PRO:HA	1.55	0.71
2:A4:976:LEU:HB3	6:D3:472:PHE:CG	2.26	0.71
9:G2:256:GLN:CG	17:O4:262:ASP:N	2.53	0.71
11:I1:980:ILE:CA	15:M1:617:THR:O	2.29	0.71
11:I1:1033:PRO:O	16:N1:441:PHE:CD1	2.44	0.71
11:I1:1071:LEU:N	16:N1:429:GLU:HG2	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1610:VAL:CG1	11:I2:1669:ARG:NH2	2.54	0.71
11:I2:833:PHE:CD1	17:O3:245:GLU:HG3	2.25	0.71
11:I2:950:LEU:CD2	16:N3:406:HIS:HE2	1.98	0.71
11:I2:1543:LEU:HD11	12:J1:300:ILE:O	1.89	0.71
2:A2:871:ASN:CB	6:D1:571:SER:CB	2.66	0.71
2:A2:904:GLN:O	6:D1:602:THR:CA	2.34	0.71
2:A2:1094:ILE:HD13	6:D2:759:GLN:CD	2.03	0.71
1:A3:1182:ILE:HG23	3:A6:639:ASN:HB2	1.70	0.71
1:A3:1194:HIS:CE1	3:A6:552:PHE:CD2	2.78	0.71
2:A4:95:TYR:CB	3:A6:365:MET:HA	2.20	0.71
2:A4:713:ILE:HG13	3:A6:462:LEU:HD12	0.71	0.71
2:A4:720:LEU:HD23	3:A6:494:PRO:C	2.06	0.71
2:A4:781:ARG:HD2	6:D3:633:LYS:HZ1	1.56	0.71
2:A4:895:PRO:CA	4:B6:344:ALA:CB	2.67	0.71
2:A4:974:PRO:C	6:D3:499:LEU:HD12	2.10	0.71
3:A5:1312:ARG:CD	28:Z2:832:PHE:CB	2.56	0.71
11:I1:938:CYS:HB2	15:M1:606:LEU:O	1.91	0.71
11:I1:947:LEU:CD1	16:N1:411:GLN:CG	2.54	0.71
11:I1:1739:GLU:HB3	11:I2:1540:LYS:CD	2.19	0.71
11:I2:898:VAL:HG21	17:O3:236:ASP:CA	2.21	0.71
11:I2:947:LEU:HD23	16:N3:408:MET:HA	1.70	0.71
11:I2:966:TRP:C	20:R3:153:GLN:CD	2.49	0.71
11:I2:1048:GLU:HG2	17:O3:288:GLU:CG	2.16	0.71
11:I2:1051:LYS:CB	17:O3:284:LYS:O	2.38	0.71
11:I3:1182:GLN:HG3	12:J3:245:GLU:OE2	1.89	0.71
11:I4:1274:HIS:N	26:X3:524:SER:HB3	2.04	0.71
17:O4:110:LEU:N	18:P4:318:PRO:CB	2.52	0.71
23:U2:62:VAL:HG12	23:U2:66:LYS:HE3	1.73	0.71
23:U3:62:VAL:HG12	23:U3:66:LYS:HE3	1.73	0.71
1:A1:1098:ARG:NH2	11:I1:1478:VAL:CA	2.54	0.71
1:A1:1201:ARG:HD2	2:A2:734:LEU:CG	2.19	0.71
2:A2:1121:LEU:C	3:A5:132:ASP:C	2.47	0.71
2:A2:1122:LEU:CD1	3:A5:135:PHE:CE2	2.74	0.71
1:A3:1017:THR:HG22	6:D3:819:ASN:CG	2.12	0.71
1:A3:1166:LEU:HA	3:A6:594:LEU:C	2.11	0.71
1:A3:1192:GLN:HB3	3:A6:645:PHE:HD2	1.44	0.71
1:A3:1228:TYR:CG	3:A6:574:ARG:NH2	2.53	0.71
1:A3:1228:TYR:HB2	3:A6:574:ARG:NH2	2.04	0.71
2:A4:540:GLN:OE1	3:A6:356:THR:O	2.09	0.71
2:A4:679:TYR:CZ	3:A6:109:ASP:HB2	2.25	0.71
2:A4:983:LEU:CD2	6:D3:528:PHE:CE1	2.74	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1365:VAL:HG13	28:Z2:841:ALA:CB	2.21	0.71
11:I1:843:GLU:CG	15:M1:587:GLU:CD	2.45	0.71
11:I1:921:GLU:CD	16:N1:392:THR:C	2.49	0.71
11:I1:937:TYR:CD2	15:M1:602:MET:SD	2.84	0.71
11:I2:841:PHE:HA	15:M3:591:ASP:CG	2.11	0.71
11:I2:1182:GLN:HE22	12:J2:245:GLU:HB3	1.56	0.71
11:I3:1267:LEU:O	26:X1:529:TRP:CG	2.43	0.71
21:S1:597:ILE:CB	21:S2:1120:PRO:CD	2.60	0.71
21:S1:686:ALA:CA	21:S2:1152:VAL:CB	2.66	0.71
28:Z2:404:VAL:HG11	28:Z2:438:GLU:HA	1.73	0.71
28:Z4:404:VAL:HG11	28:Z4:438:GLU:HA	1.73	0.71
2:A2:227:SER:HB3	6:D1:708:ASP:O	1.90	0.70
2:A2:868:GLN:HA	6:D1:584:LEU:HD21	1.73	0.70
2:A2:983:LEU:HD22	6:D1:497:PHE:CZ	2.26	0.70
1:A3:1091:VAL:HG22	6:D3:808:ASN:CB	2.21	0.70
1:A3:1198:GLU:C	2:A4:729:SER:C	2.48	0.70
1:A3:1261:TYR:CE1	3:A6:616:ALA:HB1	2.26	0.70
2:A4:80:LYS:HD2	3:A6:387:THR:HG23	0.75	0.70
2:A4:682:ARG:CD	3:A6:106:ALA:CA	2.67	0.70
3:A5:996:ASN:CB	11:I5:59:LEU:H	2.03	0.70
3:A5:996:ASN:CA	11:I5:59:LEU:N	2.48	0.70
3:A6:520:GLU:CG	6:D3:681:ALA:HB3	2.02	0.70
9:G1:255:LEU:N	15:M2:602:MET:HA	1.82	0.70
11:I1:916:ALA:CB	15:M1:586:ASP:OD1	2.38	0.70
11:I1:998:ALA:HB2	17:O1:267:ALA:CB	2.19	0.70
11:I2:828:VAL:HG12	17:O3:237:PRO:CD	2.21	0.70
11:I2:1020:ALA:O	16:N3:406:HIS:CB	2.39	0.70
11:I2:1034:ASP:HB2	15:M3:630:LEU:CD1	2.21	0.70
11:I2:1046:HIS:N	17:O3:280:GLU:CB	2.54	0.70
11:I3:1278:ALA:CA	26:X1:520:GLU:CA	2.66	0.70
18:P2:320:GLN:HG3	18:P3:278:ASN:HB2	0.71	0.70
21:S3:683:LEU:N	21:S3:684:THR:CA	2.53	0.70
23:U4:62:VAL:HG12	23:U4:66:LYS:HE3	1.73	0.70
1:A1:1224:PRO:HD2	2:A2:731:ILE:CB	2.20	0.70
2:A2:1143:LEU:N	3:A5:129:ASN:HB2	2.03	0.70
2:A2:1305:ALA:CB	2:A2:1306:PRO:CD	2.68	0.70
1:A3:1021:LEU:HB2	6:D3:816:VAL:O	1.90	0.70
1:A3:1165:ASP:HB2	3:A6:594:LEU:HD11	1.72	0.70
1:A3:1196:GLU:OE1	3:A6:611:ILE:CB	2.39	0.70
1:A3:1204:TRP:CE2	3:A6:95:TYR:CD2	2.66	0.70
2:A4:542:LEU:CD2	3:A6:364:HIS:CE1	2.58	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:692:VAL:HG22	3:A6:380:ALA:HB2	1.70	0.70
2:A4:771:ILE:HD12	3:A6:476:PHE:CG	2.25	0.70
2:A4:823:VAL:CB	3:A6:167:TRP:HZ2	2.03	0.70
2:A4:950:ASP:N	4:B6:348:PRO:HD3	2.05	0.70
3:A5:220:VAL:HA	5:C2:738:ASP:CB	2.21	0.70
3:A5:1367:THR:CG2	28:Z2:844:CYS:O	2.33	0.70
3:A6:1160:GLN:HE21	5:C6:740:ARG:HD2	1.52	0.70
8:F1:1203:TRP:HH2	17:O2:248:SER:N	1.87	0.70
8:F1:1203:TRP:HA	17:O2:251:ILE:HG22	1.71	0.70
9:G2:256:GLN:HB3	17:O4:262:ASP:H	1.54	0.70
11:I1:935:GLY:O	17:O1:261:LYS:NZ	2.22	0.70
11:I1:946:THR:N	17:O1:256:TYR:CD2	2.59	0.70
11:I1:947:LEU:HD12	17:O1:256:TYR:HE2	1.54	0.70
11:I1:958:THR:H	16:N1:399:HIS:CG	2.08	0.70
11:I1:1664:PHE:CE2	11:I2:1668:HIS:C	2.63	0.70
11:I1:1668:HIS:HB2	11:I2:1668:HIS:C	2.12	0.70
11:I2:882:LYS:HG3	17:O3:249:ARG:CA	2.03	0.70
11:I2:949:CYS:HB2	15:M3:606:LEU:HD13	1.72	0.70
11:I2:951:LYS:HD3	16:N3:405:ALA:N	2.06	0.70
11:I2:978:LYS:NZ	20:R3:155:GLU:CA	2.53	0.70
11:I2:1259:ARG:NH2	11:I2:1262:GLN:OE1	2.25	0.70
21:S3:678:GLU:CA	21:S4:1141:GLU:HA	2.21	0.70
2:A2:985:ALA:HB1	6:D1:500:LYS:N	2.05	0.70
2:A2:1142:PHE:CE2	3:A5:567:VAL:HG21	1.82	0.70
1:A3:1162:ASN:OD1	3:A6:732:GLN:NE2	2.23	0.70
1:A3:1261:TYR:CD2	3:A6:616:ALA:HA	2.26	0.70
1:A3:1332:ARG:HH22	6:D3:682:ASN:H	1.37	0.70
1:A3:1392:ARG:NH2	3:A6:224:PRO:C	2.44	0.70
2:A4:89:LEU:HD13	3:A6:406:LEU:HD11	1.72	0.70
2:A4:574:ARG:HH21	3:A6:456:ASP:H	1.38	0.70
2:A4:778:PHE:CA	3:A6:487:ASP:CG	2.53	0.70
2:A4:781:ARG:HE	6:D3:673:ARG:HH11	1.39	0.70
2:A4:859:GLN:HE22	3:A6:167:TRP:HE3	1.32	0.70
2:A4:972:GLY:C	6:D3:206:VAL:H	1.91	0.70
2:A4:988:ARG:NH1	6:D3:498:GLU:O	2.24	0.70
3:A5:232:LEU:HB3	5:C2:736:ASN:O	1.91	0.70
3:A6:442:ARG:CD	6:D3:692:LEU:HG	2.21	0.70
3:A6:446:LEU:HD21	6:D3:726:SER:O	1.87	0.70
3:A6:524:ARG:HD2	6:D3:677:GLN:CA	2.19	0.70
11:I1:841:PHE:O	15:M1:588:MET:CA	2.39	0.70
11:I1:1101:LEU:HD23	16:N1:432:TYR:CE1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:100:GLU:O	21:S2:103:ASP:N	2.21	0.70
2:A2:911:TYR:HH	6:D1:196:ILE:HG21	1.56	0.70
1:A3:1237:LEU:CD1	3:A6:119:TRP:HZ2	2.05	0.70
1:A3:1270:SER:OG	3:A6:553:ASP:HA	1.92	0.70
1:A3:1385:GLU:OE2	3:A6:223:THR:CB	2.38	0.70
2:A4:91:LEU:CD1	3:A6:104:PRO:CG	2.67	0.70
2:A4:717:VAL:HG11	3:A6:476:PHE:N	2.06	0.70
2:A4:718:GLU:CG	3:A6:492:SER:CA	2.67	0.70
2:A4:763:LEU:CD2	3:A6:384:ILE:HG12	2.21	0.70
2:A4:763:LEU:CD1	3:A6:470:ARG:HG2	2.22	0.70
2:A4:864:ARG:NH1	6:D3:610:ASN:HB2	2.06	0.70
2:A4:872:ALA:HB3	6:D3:565:MET:CE	1.94	0.70
2:A4:921:VAL:HG22	3:A6:175:GLU:CD	2.12	0.70
2:A4:954:ILE:HG22	4:B6:343:LYS:C	2.09	0.70
3:A5:1031:TYR:HD1	11:I5:67:LYS:HZ3	0.71	0.70
3:A5:1313:LYS:HB2	28:Z2:830:LEU:CA	2.20	0.70
6:D1:178:LEU:HD21	6:D1:539:PHE:CG	2.26	0.70
6:D4:178:LEU:HD21	6:D4:539:PHE:CG	2.26	0.70
11:I1:916:ALA:H	15:M1:586:ASP:CA	2.03	0.70
11:I1:986:ASN:C	15:M1:613:ASP:N	2.11	0.70
11:I1:987:GLY:CA	15:M1:611:LYS:CG	2.35	0.70
11:I1:1040:HIS:NE2	16:N1:437:VAL:HG22	1.82	0.70
11:I2:882:LYS:HB3	17:O3:245:GLU:O	1.89	0.70
11:I3:1271:GLU:CA	26:X1:529:TRP:HB2	2.22	0.70
11:I3:1275:SER:OG	26:X1:522:MET:CA	2.20	0.70
11:I4:1429:TYR:OH	12:J4:267:GLY:HA2	1.90	0.70
1:A1:870:HIS:CB	6:D3:279:HIS:CA	2.69	0.70
2:A2:868:GLN:H	6:D1:598:ILE:HG21	1.53	0.70
2:A2:1128:ASP:CA	3:A5:140:ALA:HB2	2.00	0.70
2:A2:1129:PRO:N	3:A5:140:ALA:CB	2.52	0.70
2:A2:1157:TYR:OH	3:A5:167:TRP:CD1	2.43	0.70
1:A3:1056:PHE:CD2	6:D3:805:GLY:O	2.37	0.70
2:A4:87:GLN:H	3:A6:393:HIS:H	0.76	0.70
2:A4:235:TYR:CE1	4:B4:347:LEU:CD1	2.75	0.70
2:A4:674:ASP:HB3	3:A6:99:ASP:O	1.85	0.70
2:A4:827:ILE:HD12	2:A4:859:GLN:CB	1.99	0.70
2:A4:946:LYS:CA	4:B6:348:PRO:CG	2.30	0.70
3:A6:483:HIS:CB	6:D3:675:ARG:HD3	2.21	0.70
6:D7:527:ASN:C	11:I3:181:GLN:HE21	1.94	0.70
11:I1:882:LYS:CB	17:O1:245:GLU:O	2.36	0.70
11:I1:927:HIS:NE2	15:M1:594:LYS:HA	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1182:GLN:HE22	12:J1:245:GLU:HB3	1.56	0.70
11:I2:841:PHE:CA	15:M3:591:ASP:CB	2.69	0.70
11:I2:955:LYS:N	16:N3:403:VAL:HG22	1.98	0.70
11:I5:1023:ASP:OD1	11:I5:1096:ARG:NH1	2.25	0.70
21:S2:866:TYR:O	21:S2:868:ASP:N	2.24	0.70
24:V4:170:GLY:HA3	25:W4:12:ILE:HD12	1.73	0.70
1:A3:1183:LEU:HD13	3:A6:635:ARG:CG	2.22	0.70
1:A3:1224:PRO:CB	3:A6:548:LEU:CD1	2.56	0.70
2:A4:533:ALA:HB3	3:A6:370:PRO:CG	2.21	0.70
2:A4:579:PHE:CZ	3:A6:507:ALA:CB	2.73	0.70
2:A4:795:GLN:C	3:A6:249:SER:HB2	2.11	0.70
2:A4:897:ASN:C	3:A6:176:LEU:HB3	2.12	0.70
3:A6:1398:LYS:HZ1	28:Z4:921:THR:CB	2.02	0.70
3:A6:1398:LYS:HE3	28:Z4:918:PHE:HA	1.73	0.70
11:I1:880:MET:HB2	17:O1:250:LEU:N	2.06	0.70
11:I1:967:SER:HB2	15:M1:625:GLY:C	2.10	0.70
11:I1:1182:GLN:NE2	12:J1:245:GLU:HB3	2.07	0.70
11:I2:935:GLY:HA3	15:M3:608:LYS:O	1.91	0.70
11:I2:942:HIS:N	17:O3:263:GLN:N	2.37	0.70
11:I2:1037:THR:HB	20:R3:173:LEU:CD2	2.20	0.70
21:S1:670:ILE:O	21:S2:1145:LYS:CB	2.40	0.70
2:A2:984:ALA:HB2	6:D1:553:PHE:CD2	2.27	0.70
2:A2:1151:THR:HA	5:C2:733:LEU:CA	2.22	0.70
1:A3:1083:SER:HB3	6:D3:798:MET:HE3	0.70	0.70
1:A3:1195:PHE:HD2	3:A6:678:LEU:H	0.79	0.70
1:A3:1231:VAL:O	3:A6:576:VAL:O	2.00	0.70
1:A3:1249:PHE:HA	3:A6:637:THR:N	2.07	0.70
1:A3:1268:ASP:H	3:A6:553:ASP:C	1.94	0.70
2:A4:550:VAL:HG21	3:A6:367:ASP:CB	2.18	0.70
2:A4:854:VAL:CG1	3:A6:173:ASN:H	1.86	0.70
2:A4:1151:THR:HA	5:C4:733:LEU:CA	2.22	0.70
2:A4:1155:ASN:HD21	5:C4:735:ILE:CA	2.02	0.70
3:A5:1376:LEU:HD11	28:Z2:810:ASP:CB	2.22	0.70
6:D4:622:PHE:HB2	6:D4:645:LEU:HD21	1.72	0.70
11:I1:880:MET:N	17:O1:249:ARG:N	2.34	0.70
11:I1:1110:SER:N	16:N1:437:VAL:O	2.24	0.70
11:I2:797:LEU:CD2	17:O3:245:GLU:HG2	2.22	0.70
11:I2:995:SER:CA	17:O3:267:ALA:CB	2.61	0.70
11:I2:1048:GLU:H	17:O3:287:LEU:HD22	1.57	0.70
11:I2:1049:LEU:CD1	17:O3:291:ASP:OD1	2.38	0.70
11:I2:1052:LEU:H	17:O3:286:ILE:CA	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1106:LYS:CB	16:N3:440:GLU:CD	2.48	0.70
11:I3:1267:LEU:CG	26:X1:497:ARG:HH22	1.96	0.70
11:I4:1023:ASP:OD1	11:I4:1096:ARG:NH1	2.25	0.70
11:I5:1259:ARG:NH2	11:I5:1262:GLN:OE1	2.25	0.70
11:I5:1426:SER:OG	12:J5:263:MET:SD	2.45	0.70
21:S4:683:LEU:N	21:S4:684:THR:CA	2.53	0.70
24:V1:170:GLY:HA3	25:W1:12:ILE:HD12	1.72	0.70
1:A1:1333:ARG:CA	6:D1:637:LYS:HD3	2.22	0.70
2:A2:826:ASN:O	6:D1:632:ALA:O	2.09	0.70
2:A2:869:ALA:C	6:D1:548:LEU:HD21	2.12	0.70
2:A2:876:ARG:CZ	6:D1:559:ASP:H	2.05	0.70
2:A2:904:GLN:CA	6:D1:603:SER:H	2.04	0.70
1:A3:1224:PRO:HA	2:A4:731:ILE:HD13	1.72	0.70
1:A3:1235:ILE:O	3:A6:582:ALA:CA	2.39	0.70
1:A3:1238:ILE:CG2	3:A6:640:LEU:HD13	2.22	0.70
1:A3:1277:TRP:CZ3	3:A6:622:GLY:N	2.59	0.70
2:A4:615:LEU:HD12	3:A6:511:PHE:HD2	1.56	0.70
2:A4:763:LEU:HD11	3:A6:470:ARG:HD3	1.73	0.70
2:A4:800:LEU:HA	3:A6:317:GLY:CA	2.21	0.70
2:A4:895:PRO:CA	4:B6:344:ALA:HB3	2.22	0.70
3:A5:232:LEU:HD23	5:C2:736:ASN:O	1.92	0.70
3:A5:1055:ARG:NH2	11:I5:4:LEU:O	2.25	0.70
3:A6:518:GLU:O	6:D3:681:ALA:O	2.09	0.70
3:A6:1399:ARG:NH2	28:Z4:964:LEU:O	2.25	0.70
9:G1:270:ARG:HD3	16:N2:414:ALA:HA	1.74	0.70
11:I1:937:TYR:CA	17:O1:258:GLU:HA	2.22	0.70
11:I1:989:GLY:H	15:M1:614:ASP:CG	1.94	0.70
11:I1:1259:ARG:NH2	11:I1:1262:GLN:OE1	2.25	0.70
11:I1:1429:TYR:OH	12:J1:267:GLY:HA2	1.90	0.70
11:I2:797:LEU:HD22	17:O3:245:GLU:CA	2.20	0.70
11:I2:950:LEU:HD12	16:N3:407:ALA:HA	1.71	0.70
11:I2:1017:VAL:CG2	17:O3:260:LEU:CD1	2.67	0.70
11:I3:1239:ASP:HB3	26:X1:116:ARG:NH2	2.05	0.70
21:S1:176:MET:HE1	21:S1:212:LEU:HD11	1.74	0.70
21:S2:1032:ILE:HD12	21:S2:1051:ALA:HA	1.74	0.70
23:U1:275:GLU:HB2	25:W2:190:ASP:CA	2.20	0.70
1:A1:1399:ARG:HG2	2:A2:884:ARG:HG2	0.71	0.70
2:A2:238:ARG:CZ	4:B2:349:MET:SD	2.79	0.70
2:A2:980:ARG:NH2	6:D1:503:LEU:HD12	2.06	0.70
2:A2:1143:LEU:HD21	3:A5:131:PRO:HG3	1.72	0.70
1:A3:1056:PHE:CE2	6:D3:808:ASN:N	2.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1162:ASN:N	3:A6:647:GLU:CA	2.31	0.70
1:A3:1250:PRO:HG3	3:A6:635:ARG:CB	2.17	0.70
2:A4:551:GLN:CG	3:A6:106:ALA:O	2.40	0.70
2:A4:553:ASP:OD1	3:A6:435:PRO:CD	2.38	0.70
2:A4:860:GLU:HG3	3:A6:135:PHE:HE2	1.54	0.70
3:A5:1098:ARG:HD3	11:I5:29:GLN:NE2	1.97	0.70
3:A5:1368:GLN:CD	28:Z2:840:PHE:CB	2.55	0.70
3:A6:1388:ALA:O	28:Z4:910:GLN:N	2.24	0.70
4:B5:344:ALA:HB2	5:C2:740:ARG:HH21	1.49	0.70
8:F1:158:PRO:CD	11:I1:1207:PRO:CD	2.70	0.70
9:G1:262:SER:N	17:O2:256:TYR:HE1	1.90	0.70
11:I1:992:ILE:HG21	15:M1:607:SER:HB2	1.72	0.70
11:I1:1104:LEU:O	16:N1:436:ALA:CB	2.36	0.70
11:I2:880:MET:HE1	15:M3:598:GLU:OE1	1.90	0.70
11:I2:942:HIS:ND1	17:O3:259:ASP:HA	2.06	0.70
11:I2:1048:GLU:N	17:O3:287:LEU:CD2	2.55	0.70
11:I3:1271:GLU:O	26:X1:525:ILE:CB	2.26	0.70
11:I5:1182:GLN:NE2	12:J5:245:GLU:HB3	2.07	0.70
2:A2:780:GLU:CB	6:D1:677:GLN:HB3	2.22	0.70
2:A2:968:SER:O	6:D1:203:PRO:HD3	1.91	0.70
2:A2:986:THR:CG2	6:D1:497:PHE:CE1	2.74	0.70
2:A4:556:PRO:CG	3:A6:454:GLN:CB	2.69	0.70
2:A4:642:ARG:O	3:A6:501:VAL:CG1	2.23	0.70
2:A4:701:ILE:CG1	3:A6:465:SER:C	2.60	0.70
2:A4:724:LEU:CD1	3:A6:494:PRO:HB2	2.21	0.70
6:D4:578:ARG:NH2	6:D4:624:GLU:OE1	2.25	0.70
11:I1:714:THR:O	11:I1:718:GLN:NE2	2.25	0.70
11:I1:919:ALA:HB2	16:N1:389:PHE:HA	0.98	0.70
11:I1:1608:SER:O	12:J2:299:GLY:CA	2.40	0.70
11:I2:797:LEU:HD11	17:O3:244:GLU:C	2.12	0.70
11:I2:965:ALA:CB	20:R3:153:GLN:O	2.40	0.70
11:I2:1109:LEU:CG	17:O3:290:TYR:CD2	2.63	0.70
23:U2:13:THR:O	23:U2:17:ASP:N	2.24	0.70
1:A1:868:GLN:C	6:D3:280:GLN:HG2	2.12	0.69
2:A2:782:VAL:N	6:D1:676:ALA:C	2.41	0.69
2:A2:825:ARG:NE	6:D1:633:LYS:NZ	2.40	0.69
2:A2:868:GLN:N	6:D1:598:ILE:HD13	2.06	0.69
2:A2:1122:LEU:HD13	3:A5:135:PHE:CD2	2.25	0.69
2:A2:1150:LEU:HD12	5:C2:731:LYS:HG2	1.73	0.69
2:A2:1155:ASN:ND2	3:A5:175:GLU:OE2	2.24	0.69
1:A3:1052:THR:HG22	6:D3:814:MET:C	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1121:LEU:C	3:A6:599:ARG:HH21	1.95	0.69
1:A3:1233:GLN:C	3:A6:601:PHE:CE1	2.65	0.69
1:A3:1318:TRP:CH2	3:A6:624:ASP:CG	2.64	0.69
2:A4:238:ARG:CZ	4:B4:349:MET:SD	2.79	0.69
2:A4:868:GLN:NE2	6:D3:608:ILE:CG1	2.53	0.69
2:A4:870:HIS:O	6:D3:551:PHE:CE2	2.43	0.69
2:A4:889:VAL:HG21	3:A6:174:PRO:CA	2.22	0.69
2:A4:985:ALA:O	6:D3:500:LYS:HA	1.91	0.69
3:A5:1026:PRO:N	11:I5:66:LEU:HG	2.04	0.69
3:A6:1390:LEU:O	28:Z4:913:ILE:N	2.25	0.69
6:D6:622:PHE:HB2	6:D6:645:LEU:HD21	1.72	0.69
11:I1:887:GLN:HA	17:O1:242:ARG:CB	2.22	0.69
11:I1:920:PHE:HD1	17:O1:243:LEU:HD22	1.56	0.69
11:I1:962:ILE:CG2	20:R1:166:LEU:CG	1.85	0.69
11:I1:1038:ILE:HD13	15:M1:620:VAL:HG12	0.72	0.69
11:I1:1064:LYS:HB3	16:N1:427:VAL:HG11	1.70	0.69
11:I2:914:ASN:C	15:M3:588:MET:N	2.28	0.69
11:I2:962:ILE:HB	15:M3:596:ILE:HG21	1.74	0.69
11:I2:979:ALA:HB2	20:R3:167:GLN:HE22	1.54	0.69
11:I2:1017:VAL:HG12	16:N3:410:MET:HG3	1.73	0.69
11:I2:1048:GLU:HG2	17:O3:288:GLU:CD	2.13	0.69
11:I2:1182:GLN:NE2	12:J2:245:GLU:HB3	2.07	0.69
11:I3:714:THR:O	11:I3:718:GLN:NE2	2.25	0.69
11:I3:1182:GLN:NE2	12:J3:245:GLU:HB3	2.07	0.69
21:S3:681:SER:C	21:S4:1144:LEU:O	2.31	0.69
21:S4:184:ILE:HD11	21:S4:201:VAL:HG23	1.72	0.69
1:A1:1090:SER:HB2	6:D1:800:PRO:HB3	1.74	0.69
2:A2:1121:LEU:HB3	3:A5:133:LYS:N	2.07	0.69
2:A2:1126:VAL:CG2	3:A5:135:PHE:CG	2.75	0.69
1:A3:1153:LEU:CD1	3:A6:592:ASP:CG	2.60	0.69
2:A4:714:GLN:O	3:A6:491:VAL:O	2.09	0.69
2:A4:754:HIS:CE1	3:A6:537:ALA:HB1	2.27	0.69
2:A4:801:THR:HB	3:A6:380:ALA:C	2.12	0.69
2:A4:875:LEU:HB3	6:D3:566:PHE:N	2.07	0.69
2:A4:954:ILE:CA	4:B6:345:LYS:CA	2.61	0.69
2:A4:955:CYS:HA	4:B6:343:LYS:O	1.93	0.69
2:A4:989:MSE:CG	6:D3:500:LYS:HD2	2.22	0.69
2:A4:1151:THR:CA	5:C4:733:LEU:CD1	2.47	0.69
3:A6:1376:LEU:CA	28:Z4:830:LEU:CB	2.71	0.69
5:C1:732:LYS:HE2	11:I1:1228:GLU:CB	2.21	0.69
6:D6:578:ARG:NH2	6:D6:624:GLU:OE1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:178:LEU:HD21	6:D7:539:PHE:CG	2.27	0.69
6:D7:179:ASP:CG	11:I3:49:PRO:HB3	2.12	0.69
8:F1:1264:ARG:HH12	17:O2:264:ILE:HA	1.54	0.69
11:I1:841:PHE:CD1	17:O1:243:LEU:CD1	2.75	0.69
11:I1:873:ILE:C	17:O1:251:ILE:HG23	2.11	0.69
11:I1:931:VAL:O	15:M1:604:ASN:N	2.24	0.69
11:I1:946:THR:HB	17:O1:260:LEU:HD23	0.73	0.69
11:I1:1739:GLU:HB2	11:I2:1540:LYS:HE2	1.72	0.69
11:I2:873:ILE:CG2	17:O3:258:GLU:HG3	2.17	0.69
11:I2:887:GLN:HB2	16:N3:393:ILE:CD1	2.21	0.69
11:I2:976:ARG:NH2	20:R3:143:PHE:CA	2.53	0.69
11:I2:978:LYS:O	20:R3:151:LYS:CG	2.39	0.69
11:I2:1104:LEU:HG	16:N3:433:GLU:CD	2.06	0.69
11:I3:1280:PRO:HD3	26:X1:523:LEU:HD11	1.72	0.69
17:O3:102:LYS:CB	18:P3:322:LYS:CD	2.70	0.69
21:S3:1073:ILE:HD12	21:S3:1074:LEU:N	2.07	0.69
1:A1:871:ASN:N	6:D3:280:GLN:H	1.91	0.69
2:A2:876:ARG:HG3	6:D1:558:LYS:HG2	1.74	0.69
2:A2:973:GLU:OE1	6:D1:192:TYR:CG	2.46	0.69
2:A2:987:LYS:CE	6:D1:555:ARG:N	2.55	0.69
1:A3:1226:LEU:HD23	3:A6:549:ALA:H	1.54	0.69
2:A4:733:GLY:CA	3:A6:93:ASP:C	2.56	0.69
2:A4:770:GLY:C	3:A6:528:ILE:HD12	2.11	0.69
2:A4:774:VAL:CA	3:A6:467:LEU:HD12	2.14	0.69
3:A5:1365:VAL:CG2	28:Z2:838:GLN:CB	2.71	0.69
3:A5:1404:LEU:HD21	28:Z2:913:ILE:O	1.92	0.69
6:D2:178:LEU:HD21	6:D2:539:PHE:CG	2.27	0.69
6:D2:451:SER:O	6:D2:455:VAL:HG13	1.93	0.69
11:I1:927:HIS:CE1	15:M1:594:LYS:HG3	2.27	0.69
11:I1:928:LEU:CG	20:R1:155:GLU:HG3	2.22	0.69
11:I1:945:LEU:HG	17:O1:257:ALA:C	2.13	0.69
11:I1:1023:ASP:OD1	11:I1:1096:ARG:NH1	2.25	0.69
11:I1:1607:GLN:HB2	12:J2:298:PHE:CE1	2.26	0.69
11:I1:1663:LYS:HZ1	11:I2:1659:VAL:C	1.87	0.69
11:I2:943:ALA:C	17:O3:260:LEU:HB2	2.12	0.69
11:I2:962:ILE:CG2	20:R3:166:LEU:C	1.78	0.69
11:I2:1046:HIS:CA	17:O3:280:GLU:O	2.40	0.69
11:I3:1277:LEU:HD13	26:X1:511:TYR:HE2	1.45	0.69
11:I4:1182:GLN:HE22	12:J4:245:GLU:HB3	1.56	0.69
15:M3:483:LYS:HZ1	16:N4:327:LYS:CE	2.01	0.69
23:U1:162:LEU:HB3	24:V1:315:LYS:HG3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:404:VAL:HG11	28:Z1:438:GLU:HA	1.73	0.69
2:A2:874:VAL:HG12	6:D1:608:ILE:HG22	1.73	0.69
2:A2:1148:ARG:CZ	3:A5:169:TYR:HA	2.21	0.69
1:A3:1224:PRO:CA	3:A6:496:THR:C	2.52	0.69
1:A3:1318:TRP:CZ2	3:A6:624:ASP:OD1	2.42	0.69
2:A4:93:ASP:HB2	3:A6:429:LEU:C	2.08	0.69
2:A4:771:ILE:O	3:A6:479:VAL:CG2	2.40	0.69
2:A4:867:GLU:OE2	6:D3:605:THR:HB	1.91	0.69
2:A4:893:LEU:HD22	3:A6:177:ILE:H	1.54	0.69
2:A4:988:ARG:CD	6:D3:500:LYS:HG2	2.20	0.69
3:A5:1151:THR:HA	5:C5:733:LEU:HD13	1.73	0.69
3:A5:1376:LEU:N	28:Z2:814:THR:CB	2.54	0.69
6:D3:622:PHE:HB2	6:D3:645:LEU:HD21	1.72	0.69
6:D6:451:SER:O	6:D6:455:VAL:HG13	1.92	0.69
8:F1:1091:SER:OG	17:O2:238:ALA:CA	2.40	0.69
11:I1:833:PHE:C	17:O1:237:PRO:O	2.30	0.69
11:I1:957:SER:OG	16:N1:399:HIS:CD2	2.46	0.69
11:I1:987:GLY:CA	15:M1:614:ASP:HB3	2.20	0.69
11:I1:1043:LEU:O	16:N1:430:ARG:CG	2.37	0.69
11:I2:873:ILE:C	17:O3:255:GLY:CA	2.61	0.69
11:I2:946:THR:HA	17:O3:257:ALA:O	1.92	0.69
11:I2:1023:ASP:OD1	11:I2:1096:ARG:NH1	2.25	0.69
11:I2:1109:LEU:CD2	16:N3:438:LEU:HD23	2.21	0.69
17:O3:151:LEU:HD22	18:P3:325:ILE:CG2	2.21	0.69
21:S1:138:VAL:CG1	21:S1:170:THR:HG22	2.22	0.69
2:A2:866:SER:N	6:D1:605:THR:CA	2.52	0.69
2:A2:986:THR:HG21	6:D1:504:LYS:HD3	0.70	0.69
1:A3:1190:ILE:HD11	3:A6:617:VAL:CG1	2.21	0.69
1:A3:1236:GLN:CG	3:A6:578:ILE:CA	2.66	0.69
2:A4:549:ALA:HB1	3:A6:365:MET:CE	2.02	0.69
2:A4:550:VAL:HG21	3:A6:367:ASP:HB3	1.71	0.69
2:A4:717:VAL:CG1	3:A6:492:SER:C	2.59	0.69
2:A4:726:ALA:HA	3:A6:575:LEU:HD13	1.73	0.69
2:A4:735:ALA:HB1	3:A6:682:ARG:HG2	1.74	0.69
2:A4:896:ALA:CA	3:A6:178:GLY:HA2	2.22	0.69
2:A4:975:GLU:O	6:D3:496:LEU:CA	2.40	0.69
3:A5:1024:ASP:C	11:I5:98:ALA:HB3	2.12	0.69
3:A5:1026:PRO:CG	11:I5:102:ILE:CD1	2.69	0.69
3:A5:1313:LYS:HB2	28:Z2:830:LEU:C	2.12	0.69
3:A5:1398:LYS:CG	28:Z2:873:LEU:O	2.39	0.69
6:D3:178:LEU:HD21	6:D3:539:PHE:CG	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:258:LYS:O	17:O4:259:ASP:OD1	2.09	0.69
11:I2:921:GLU:O	15:M3:596:ILE:HB	1.93	0.69
11:I3:1023:ASP:OD1	11:I3:1096:ARG:NH1	2.25	0.69
11:I3:1182:GLN:HE22	12:J3:245:GLU:HB3	1.56	0.69
11:I4:1279:THR:CG2	26:X3:520:GLU:HB2	2.17	0.69
11:I5:1182:GLN:HE22	12:J5:245:GLU:HB3	1.56	0.69
17:O4:110:LEU:CD2	18:P4:321:ILE:CG1	2.69	0.69
21:S3:686:ALA:HB1	21:S4:1153:GLN:CB	2.18	0.69
21:S4:1032:ILE:HD12	21:S4:1051:ALA:HA	1.73	0.69
26:X2:454:LEU:O	26:X2:456:SER:N	2.26	0.69
28:Z3:404:VAL:HG11	28:Z3:438:GLU:HA	1.73	0.69
1:A3:1220:PRO:HG3	2:A4:732:GLN:NE2	2.08	0.69
1:A3:1220:PRO:O	2:A4:672:ARG:NE	2.24	0.69
2:A4:551:GLN:O	3:A6:456:ASP:N	2.24	0.69
2:A4:715:GLU:CG	3:A6:515:THR:N	2.54	0.69
2:A4:727:ASN:OD1	3:A6:605:TYR:CB	2.41	0.69
2:A4:801:THR:OG1	3:A6:319:TYR:CZ	2.42	0.69
2:A4:802:TYR:CD1	3:A6:397:LEU:HD22	2.26	0.69
2:A4:965:LYS:HE2	6:D3:196:ILE:C	2.13	0.69
2:A4:989:MSE:HE2	6:D3:240:ASP:OD1	1.92	0.69
2:A4:1114:ILE:CD1	5:C4:731:LYS:HG3	2.19	0.69
3:A6:520:GLU:CB	6:D3:639:LEU:HG	2.21	0.69
6:D2:578:ARG:NH2	6:D2:624:GLU:OE1	2.26	0.69
6:D6:178:LEU:HD21	6:D6:539:PHE:CG	2.26	0.69
11:I1:984:GLU:HB3	15:M1:614:ASP:O	1.92	0.69
11:I1:1109:LEU:N	16:N1:440:GLU:C	2.34	0.69
11:I1:1667:GLN:CD	11:I2:1665:LEU:CG	2.59	0.69
11:I2:837:MET:HA	17:O3:244:GLU:N	2.06	0.69
11:I2:954:GLU:CB	16:N3:403:VAL:HA	2.19	0.69
11:I3:1277:LEU:HD23	26:X1:519:ILE:HA	1.73	0.69
11:I5:714:THR:O	11:I5:718:GLN:NE2	2.25	0.69
21:S1:1073:ILE:HD12	21:S1:1074:LEU:N	2.07	0.69
21:S3:682:ASN:C	21:S3:684:THR:HA	2.13	0.69
23:U3:278:GLN:H	25:W4:192:GLN:NE2	1.90	0.69
24:V2:367:PHE:O	24:V2:369:GLY:N	2.26	0.69
26:X1:454:LEU:O	26:X1:456:SER:N	2.26	0.69
1:A1:1224:PRO:N	2:A2:731:ILE:HD13	2.05	0.69
2:A2:780:GLU:CA	6:D1:677:GLN:C	2.61	0.69
2:A2:1126:VAL:CA	3:A5:135:PHE:HB3	2.21	0.69
1:A3:1186:TRP:CZ2	3:A6:583:LEU:HB3	2.27	0.69
1:A3:1197:ALA:HB3	2:A4:728:LYS:NZ	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1230:TYR:HA	2:A4:726:ALA:HA	1.75	0.69
1:A3:1236:GLN:HG3	3:A6:581:LYS:HB3	1.67	0.69
2:A4:692:VAL:CB	3:A6:467:LEU:HD23	2.16	0.69
2:A4:727:ASN:CG	3:A6:497:GLY:CA	2.61	0.69
2:A4:769:GLU:O	3:A6:528:ILE:HD12	1.87	0.69
2:A4:851:ASP:C	3:A6:170:THR:N	2.46	0.69
2:A4:879:LEU:HG	6:D3:567:LEU:HG	1.75	0.69
2:A4:908:LEU:HD23	6:D3:601:PHE:CA	2.22	0.69
2:A4:909:LYS:O	6:D3:556:ASP:OD1	2.11	0.69
3:A5:232:LEU:HG	5:C2:739:MET:HG2	1.75	0.69
3:A5:1151:THR:OG1	5:C5:733:LEU:HD12	1.93	0.69
3:A5:1372:THR:HB	28:Z2:828:LEU:HA	1.74	0.69
6:D1:578:ARG:NH2	6:D1:624:GLU:OE1	2.26	0.69
8:F1:1203:TRP:CZ2	17:O2:248:SER:HB3	2.23	0.69
11:I1:966:TRP:HE3	20:R1:167:GLN:HB3	1.51	0.69
11:I2:873:ILE:O	17:O3:255:GLY:N	2.26	0.69
11:I2:917:TYR:N	15:M3:586:ASP:O	2.25	0.69
11:I2:950:LEU:HB3	16:N3:406:HIS:HD2	1.53	0.69
11:I2:964:SER:H	20:R3:165:SER:HB3	1.57	0.69
11:I2:1048:GLU:CB	17:O3:284:LYS:HA	2.22	0.69
11:I4:714:THR:O	11:I4:718:GLN:NE2	2.25	0.69
21:S1:680:PRO:N	21:S2:1127:GLN:HG3	2.08	0.69
21:S2:138:VAL:CG1	21:S2:170:THR:HG22	2.22	0.69
21:S3:866:TYR:O	21:S3:868:ASP:N	2.24	0.69
24:V4:367:PHE:O	24:V4:369:GLY:N	2.26	0.69
2:A2:235:TYR:CE1	4:B2:347:LEU:CD1	2.75	0.69
2:A2:970:PHE:CB	6:D1:196:ILE:HD11	2.22	0.69
2:A2:983:LEU:HD22	6:D1:497:PHE:HZ	1.57	0.69
2:A2:1055:ARG:N	6:D2:762:ARG:CA	2.55	0.69
2:A2:1130:ARG:C	3:A5:141:GLY:CA	2.59	0.69
2:A2:1135:ARG:HH11	3:A5:147:LEU:HD23	1.56	0.69
2:A2:1142:PHE:HA	3:A5:128:HIS:O	1.59	0.69
2:A2:1154:PHE:CB	3:A5:175:GLU:OE1	2.40	0.69
2:A2:1155:ASN:HD21	5:C2:735:ILE:CA	2.02	0.69
2:A2:1160:GLN:OE1	3:A5:164:LEU:O	2.11	0.69
2:A2:1160:GLN:HG2	3:A5:176:LEU:HB3	1.75	0.69
1:A3:1098:ARG:HH21	11:I2:1421:ARG:NH2	1.90	0.69
1:A3:1124:ARG:NE	3:A6:602:ILE:HD12	2.08	0.69
1:A3:1163:TYR:CG	3:A6:648:TYR:CA	2.69	0.69
1:A3:1164:TYR:CD1	3:A6:643:ALA:C	2.66	0.69
1:A3:1169:LEU:C	3:A6:590:SER:C	2.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1190:ILE:HB	3:A6:615:LEU:O	1.92	0.69
1:A3:1193:SER:HA	3:A6:610:THR:C	2.13	0.69
1:A3:1196:GLU:C	3:A6:678:LEU:CD2	2.61	0.69
1:A3:1233:GLN:CB	3:A6:578:ILE:CG2	2.71	0.69
1:A3:1236:GLN:CD	3:A6:578:ILE:CA	2.51	0.69
1:A3:1237:LEU:HD11	3:A6:119:TRP:HZ2	1.58	0.69
1:A3:1249:PHE:HB2	3:A6:587:VAL:HG21	0.83	0.69
1:A3:1285:LEU:CA	3:A6:581:LYS:HZ3	0.92	0.69
1:A3:1328:ARG:HH21	3:A6:127:HIS:C	1.94	0.69
2:A4:543:GLY:O	3:A6:365:MET:HG3	1.93	0.69
2:A4:554:GLN:NE2	3:A6:370:PRO:CD	2.52	0.69
2:A4:608:VAL:N	3:A6:103:ARG:NH1	2.39	0.69
2:A4:679:TYR:CE1	3:A6:107:SER:OG	2.45	0.69
2:A4:760:LEU:CD2	3:A6:98:LEU:N	2.56	0.69
2:A4:761:GLN:HE21	3:A6:535:PHE:HE1	1.41	0.69
2:A4:818:LEU:HD12	3:A6:526:ILE:O	1.92	0.69
2:A4:860:GLU:O	6:D3:607:PRO:CD	2.39	0.69
2:A4:863:GLN:N	3:A6:132:ASP:HB3	2.06	0.69
2:A4:908:LEU:HG	6:D3:601:PHE:C	2.13	0.69
3:A5:1026:PRO:C	11:I5:67:LYS:HA	2.03	0.69
3:A5:1373:GLY:C	28:Z2:814:THR:CB	2.58	0.69
11:I1:921:GLU:OE1	15:M1:592:LEU:HD11	1.92	0.69
11:I1:966:TRP:CH2	20:R1:167:GLN:HG2	2.28	0.69
11:I1:1017:VAL:CA	16:N1:411:GLN:HG3	2.23	0.69
11:I1:1030:ARG:HG2	20:R1:179:LYS:CE	2.06	0.69
11:I1:1043:LEU:CD1	20:R1:170:LEU:HD22	2.23	0.69
11:I1:1109:LEU:N	16:N1:442:GLU:H	1.90	0.69
11:I1:1113:LEU:CB	16:N1:435:ALA:CB	2.69	0.69
11:I2:714:THR:O	11:I2:718:GLN:NE2	2.25	0.69
11:I2:881:ILE:CG1	17:O3:249:ARG:O	2.39	0.69
11:I2:955:LYS:NZ	17:O3:249:ARG:HH22	1.90	0.69
11:I2:957:SER:CB	20:R3:168:LEU:CA	1.88	0.69
11:I2:993:SER:H	15:M3:608:LYS:HZ2	1.38	0.69
11:I2:995:SER:HA	17:O3:267:ALA:CA	2.23	0.69
11:I2:1049:LEU:O	17:O3:287:LEU:C	2.30	0.69
11:I2:1110:SER:HA	16:N3:438:LEU:HD12	1.74	0.69
11:I3:1259:ARG:NH2	11:I3:1262:GLN:OE1	2.25	0.69
18:P1:278:ASN:HB3	18:P4:322:LYS:HA	1.73	0.69
21:S2:682:ASN:C	21:S2:684:THR:HA	2.13	0.69
21:S2:1073:ILE:HD12	21:S2:1074:LEU:N	2.07	0.69
21:S4:138:VAL:CG1	21:S4:170:THR:HG22	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U3:162:LEU:HB3	24:V3:315:LYS:HG3	1.74	0.69
23:U3:278:GLN:HB2	25:W4:187:TYR:HH	1.56	0.69
24:V3:367:PHE:O	24:V3:369:GLY:N	2.26	0.69
2:A2:826:ASN:HA	6:D1:633:LYS:CB	2.16	0.69
2:A2:826:ASN:OD1	6:D1:633:LYS:CG	2.41	0.69
2:A2:867:GLU:HG3	6:D1:593:ARG:NH2	2.05	0.69
2:A2:968:SER:O	6:D1:203:PRO:HD2	1.93	0.69
2:A2:1124:ARG:O	3:A5:136:GLU:CA	2.25	0.69
2:A2:1151:THR:HG23	5:C2:734:VAL:O	1.93	0.69
1:A3:1257:VAL:HG22	3:A6:719:ARG:NH1	2.08	0.69
1:A3:1271:ILE:HG13	3:A6:554:GLN:HG2	1.74	0.69
2:A4:574:ARG:H	3:A6:454:GLN:HA	1.58	0.69
2:A4:679:TYR:HE1	3:A6:107:SER:OG	1.76	0.69
2:A4:715:GLU:OE1	3:A6:516:TRP:CD1	2.45	0.69
2:A4:717:VAL:CB	3:A6:476:PHE:HB3	2.23	0.69
2:A4:805:LEU:HD12	3:A6:468:GLY:O	1.92	0.69
2:A4:898:LEU:CD1	4:B6:342:ARG:CB	2.46	0.69
2:A4:958:LEU:HD13	4:B6:342:ARG:CA	2.22	0.69
3:A5:172:PRO:HD2	5:C2:730:HIS:CD2	2.24	0.69
3:A6:524:ARG:CD	6:D3:677:GLN:CA	2.61	0.69
6:D5:578:ARG:NH2	6:D5:624:GLU:OE1	2.26	0.69
11:I1:955:LYS:CB	16:N1:396:ILE:O	2.28	0.69
11:I1:1042:LEU:CA	15:M1:616:LEU:CD2	2.31	0.69
11:I1:1070:LEU:C	16:N1:429:GLU:HG2	2.13	0.69
11:I1:1668:HIS:H	11:I2:1664:PHE:C	1.81	0.69
11:I1:1669:ARG:CZ	11:I2:1605:LEU:HB2	2.22	0.69
11:I2:950:LEU:O	16:N3:403:VAL:HG13	1.87	0.69
11:I2:1040:HIS:C	15:M3:616:LEU:CD1	2.61	0.69
11:I2:1053:GLY:HA3	17:O3:281:ALA:O	1.58	0.69
11:I2:1054:ILE:HA	17:O3:280:GLU:H	1.52	0.69
11:I4:1259:ARG:NH2	11:I4:1262:GLN:OE1	2.25	0.69
11:I4:1270:LYS:HB3	26:X3:528:GLU:HB2	1.75	0.69
17:O3:158:GLU:HG2	18:P3:315:GLU:HA	1.75	0.69
23:U4:162:LEU:HB3	24:V4:315:LYS:HG3	1.74	0.69
24:V3:483:GLU:CD	24:V3:514:ARG:HH22	1.96	0.69
2:A2:864:ARG:HD3	6:D1:610:ASN:H	1.58	0.69
2:A2:872:ALA:HB1	6:D1:565:MET:CB	2.21	0.69
2:A2:878:LEU:HD12	6:D1:608:ILE:HG22	1.72	0.69
1:A3:1201:ARG:HB2	2:A4:735:ALA:HB2	1.74	0.69
1:A3:1225:PRO:CD	2:A4:727:ASN:HB2	2.23	0.69
2:A4:610:THR:CB	3:A6:506:SER:OG	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:684:VAL:HG22	3:A6:405:PHE:HZ	1.54	0.69
2:A4:711:VAL:N	3:A6:490:PHE:CB	2.53	0.69
2:A4:757:LEU:HD12	3:A6:543:GLY:C	2.10	0.69
2:A4:770:GLY:CA	3:A6:477:PHE:HB2	2.23	0.69
3:A5:220:VAL:CG1	5:C2:739:MET:CG	2.69	0.69
3:A5:1098:ARG:NE	11:I5:29:GLN:HG3	1.99	0.69
3:A5:1378:GLY:C	28:Z2:812:LEU:CB	2.61	0.69
3:A6:520:GLU:CD	6:D3:636:ASP:HA	2.13	0.69
3:A6:1151:THR:OG1	5:C6:733:LEU:HD12	1.93	0.69
3:A6:1359:LEU:HB3	28:Z4:917:ASP:CA	2.21	0.69
6:D3:578:ARG:NH2	6:D3:624:GLU:OE1	2.26	0.69
6:D5:178:LEU:HD21	6:D5:539:PHE:CG	2.27	0.69
9:G1:270:ARG:CA	16:N2:413:VAL:O	2.40	0.69
11:I1:877:ILE:HG21	17:O1:253:LEU:C	2.13	0.69
11:I1:1029:LEU:HB2	20:R1:171:ALA:C	2.02	0.69
11:I1:1029:LEU:C	20:R1:172:ASP:O	2.31	0.69
11:I1:1602:PHE:HB3	11:I2:1666:THR:HG21	1.75	0.69
11:I2:891:LEU:CA	17:O3:239:GLN:HB3	2.22	0.69
17:O4:106:HIS:O	18:P4:318:PRO:HG3	1.90	0.69
17:O4:111:TYR:HD1	18:P4:325:ILE:HD12	1.58	0.69
24:V2:483:GLU:CD	24:V2:514:ARG:HH22	1.96	0.69
1:A1:870:HIS:CB	6:D3:279:HIS:HB3	2.18	0.68
1:A1:1204:TRP:HE1	2:A2:645:PHE:HZ	1.30	0.68
1:A3:1254:LEU:N	3:A6:635:ARG:N	2.40	0.68
1:A3:1325:MET:HE2	3:A6:126:ARG:HD3	1.66	0.68
2:A4:685:ARG:NH1	3:A6:365:MET:SD	2.66	0.68
2:A4:719:ARG:CG	3:A6:514:GLY:N	2.54	0.68
2:A4:800:LEU:O	3:A6:379:VAL:O	2.11	0.68
2:A4:1019:ARG:NH2	6:D3:237:PRO:O	0.68	0.68
2:A4:1150:LEU:HD12	5:C4:731:LYS:HG2	1.73	0.68
2:A4:1305:ALA:HB1	2:A4:1306:PRO:HD3	1.75	0.68
3:A5:1363:ASP:H	28:Z2:875:LEU:CA	2.06	0.68
3:A6:523:ASN:HD21	6:D3:635:ALA:CB	1.95	0.68
3:A6:842:ARG:CD	8:F2:776:HIS:HE1	2.01	0.68
6:D7:451:SER:O	6:D7:455:VAL:HG13	1.92	0.68
11:I1:962:ILE:CG1	15:M1:596:ILE:CG2	2.71	0.68
11:I1:1042:LEU:HA	15:M1:616:LEU:HD23	1.71	0.68
11:I2:924:ILE:HG12	15:M3:592:LEU:O	1.93	0.68
11:I2:950:LEU:CD2	15:M3:606:LEU:HG	2.23	0.68
11:I2:993:SER:H	15:M3:608:LYS:NZ	1.91	0.68
11:I4:1274:HIS:CA	26:X3:524:SER:OG	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:1276:GLN:N	26:X3:521:TRP:N	2.42	0.68
23:U3:279:TYR:CD1	25:W4:189:SER:HB2	2.01	0.68
1:A1:1222:ALA:CA	2:A2:645:PHE:CE1	2.73	0.68
2:A2:1142:PHE:CZ	3:A5:567:VAL:CG2	0.80	0.68
1:A3:1236:GLN:HG2	3:A6:581:LYS:HB2	1.74	0.68
1:A3:1249:PHE:CD2	3:A6:637:THR:OG1	2.46	0.68
1:A3:1250:PRO:HB2	3:A6:635:ARG:HB3	1.74	0.68
1:A3:1257:VAL:HA	3:A6:719:ARG:NH1	2.07	0.68
1:A3:1261:TYR:CD1	3:A6:621:GLN:OE1	2.46	0.68
2:A4:89:LEU:C	3:A6:406:LEU:HA	1.97	0.68
2:A4:611:ILE:HG22	3:A6:508:LEU:CG	0.37	0.68
3:A5:232:LEU:CG	5:C2:739:MET:N	2.39	0.68
3:A6:446:LEU:CD1	6:D3:722:LEU:N	2.56	0.68
11:I1:924:ILE:HG23	15:M1:591:ASP:O	1.92	0.68
11:I1:992:ILE:O	15:M1:607:SER:O	2.09	0.68
11:I1:1024:PHE:O	20:R1:172:ASP:OD1	2.10	0.68
11:I2:955:LYS:CA	16:N3:399:HIS:O	2.37	0.68
11:I2:990:GLU:O	17:O3:271:GLU:O	2.11	0.68
11:I4:1182:GLN:NE2	12:J4:245:GLU:HB3	2.07	0.68
11:I4:1308:THR:O	11:I4:1312:ASN:ND2	2.26	0.68
21:S4:1073:ILE:HD12	21:S4:1074:LEU:N	2.07	0.68
2:A2:1144:ASP:N	3:A5:129:ASN:CG	2.47	0.68
1:A3:1264:ASN:O	3:A6:716:ASN:C	2.30	0.68
1:A3:1269:ALA:O	3:A6:554:GLN:CB	2.37	0.68
2:A4:84:VAL:CG1	3:A6:99:ASP:OD2	2.42	0.68
2:A4:681:THR:OG1	3:A6:392:LEU:HD13	1.93	0.68
2:A4:715:GLU:CG	3:A6:515:THR:CA	2.69	0.68
2:A4:852:ASP:HB3	3:A6:169:TYR:CD1	1.86	0.68
3:A5:232:LEU:HD11	5:C2:739:MET:CB	2.02	0.68
6:D6:728:GLU:OE1	22:T3:773:LYS:O	2.11	0.68
11:I1:935:GLY:N	15:M1:605:THR:CB	2.45	0.68
11:I1:947:LEU:CD1	17:O1:256:TYR:CZ	2.64	0.68
11:I1:984:GLU:HA	15:M1:614:ASP:O	1.91	0.68
11:I1:1108:PRO:CB	16:N1:443:GLU:CA	2.59	0.68
11:I1:1113:LEU:HB2	16:N1:435:ALA:HB1	1.75	0.68
11:I2:877:ILE:HG13	17:O3:254:ARG:CB	0.47	0.68
11:I2:966:TRP:N	20:R3:154:ALA:HB2	2.04	0.68
11:I2:978:LYS:HZ3	20:R3:152:LYS:C	1.97	0.68
11:I2:1045:PHE:CE1	17:O3:279:ILE:CG2	2.77	0.68
21:S1:682:ASN:C	21:S1:684:THR:HA	2.13	0.68
21:S3:1074:LEU:HD13	21:S3:1122:VAL:HG13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:682:ASN:C	21:S4:684:THR:HA	2.13	0.68
23:U3:278:GLN:CB	25:W4:187:TYR:OH	2.41	0.68
26:X4:454:LEU:O	26:X4:456:SER:N	2.26	0.68
1:A1:868:GLN:C	6:D3:280:GLN:CG	2.59	0.68
1:A1:1220:PRO:C	2:A2:645:PHE:HD1	1.94	0.68
1:A3:1021:LEU:HB3	6:D3:816:VAL:HG12	0.69	0.68
1:A3:1228:TYR:HB2	3:A6:574:ARG:CZ	2.22	0.68
2:A4:95:TYR:CG	3:A6:365:MET:HA	2.27	0.68
2:A4:671:SER:CB	3:A6:505:ALA:HB1	2.23	0.68
2:A4:761:GLN:CG	3:A6:545:GLY:O	2.42	0.68
2:A4:776:MET:CA	3:A6:519:LEU:CD1	2.71	0.68
2:A4:868:GLN:HB2	6:D3:570:VAL:HG21	1.74	0.68
3:A5:153:ILE:HB	5:C2:739:MET:CE	2.23	0.68
3:A6:444:ARG:HG3	6:D3:733:ALA:CB	2.15	0.68
3:A6:1410:ALA:HB3	26:X4:686:ASP:N	2.09	0.68
6:D7:530:ARG:CZ	11:I3:182:VAL:H	2.06	0.68
11:I1:837:MET:HE2	17:O1:239:GLN:O	1.93	0.68
11:I1:928:LEU:HD21	20:R1:154:ALA:C	2.11	0.68
11:I1:937:TYR:CB	17:O1:258:GLU:CG	2.54	0.68
11:I1:1045:PHE:CE1	16:N1:434:LEU:C	2.58	0.68
11:I1:1069:SER:HG	16:N1:427:VAL:N	1.91	0.68
11:I2:834:SER:N	17:O3:241:SER:HB2	2.08	0.68
11:I2:885:GLU:HA	16:N3:397:GLU:HB3	1.73	0.68
11:I2:917:TYR:H	15:M3:586:ASP:C	1.97	0.68
11:I2:922:ASP:HA	20:R3:163:LEU:HB3	1.76	0.68
11:I2:952:LEU:CA	16:N3:403:VAL:HG21	2.23	0.68
11:I2:983:LEU:O	15:M3:613:ASP:N	2.26	0.68
11:I2:1043:LEU:HD13	16:N3:434:LEU:H	1.58	0.68
11:I3:1266:ALA:O	26:X1:528:GLU:C	2.32	0.68
11:I5:1308:THR:O	11:I5:1312:ASN:ND2	2.26	0.68
2:A2:874:VAL:HG22	6:D1:611:LYS:CG	2.19	0.68
2:A2:968:SER:HA	6:D1:202:GLN:CA	2.22	0.68
2:A2:1142:PHE:CG	3:A5:128:HIS:O	2.46	0.68
1:A3:1083:SER:H	6:D3:798:MET:HE2	1.56	0.68
1:A3:1195:PHE:HE2	3:A6:677:ALA:HB3	1.57	0.68
1:A3:1198:GLU:CB	3:A6:678:LEU:C	2.61	0.68
2:A4:227:SER:CB	6:D3:712:ASP:H	2.05	0.68
2:A4:460:ARG:NH2	2:A4:463:ASP:OD2	2.26	0.68
2:A4:701:ILE:CD1	3:A6:466:ALA:CA	2.50	0.68
2:A4:793:SER:OG	3:A6:187:THR:C	2.32	0.68
3:A5:186:ILE:CG2	5:C2:742:ASP:OD1	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:996:ASN:CG	11:I5:55:ASP:C	2.52	0.68
3:A5:999:SER:CB	11:I5:64:LYS:HE3	2.23	0.68
6:D4:451:SER:O	6:D4:455:VAL:HG13	1.92	0.68
9:G2:257:THR:CG2	17:O4:258:GLU:H	2.02	0.68
11:I1:959:SER:HB3	20:R1:166:LEU:CD2	2.21	0.68
11:I1:1110:SER:HA	16:N1:438:LEU:HB2	1.76	0.68
11:I2:900:ARG:C	17:O3:232:LYS:HE2	2.12	0.68
11:I2:1039:ALA:HB2	20:R3:170:LEU:CG	1.49	0.68
11:I2:1053:GLY:C	17:O3:281:ALA:C	2.34	0.68
11:I2:1308:THR:O	11:I2:1312:ASN:ND2	2.26	0.68
21:S1:100:GLU:O	21:S1:103:ASP:N	2.21	0.68
21:S1:670:ILE:H	21:S2:1146:ALA:CA	2.06	0.68
21:S1:1032:ILE:HD12	21:S1:1051:ALA:HA	1.73	0.68
21:S3:1032:ILE:HD12	21:S3:1051:ALA:HA	1.74	0.68
22:T1:671:LYS:O	22:T1:674:VAL:HG12	1.94	0.68
24:V1:367:PHE:O	24:V1:369:GLY:N	2.25	0.68
2:A2:869:ALA:HA	6:D1:583:ILE:CG2	2.23	0.68
1:A3:1091:VAL:HG23	6:D3:805:GLY:O	1.93	0.68
1:A3:1099:GLN:N	11:I2:1414:CYS:SG	2.67	0.68
2:A4:719:ARG:HD3	3:A6:513:GLN:NE2	2.09	0.68
2:A4:760:LEU:HD11	3:A6:98:LEU:CB	2.24	0.68
2:A4:778:PHE:N	3:A6:487:ASP:CG	2.46	0.68
2:A4:954:ILE:CB	4:B6:346:LEU:N	2.55	0.68
2:A4:1151:THR:HA	5:C4:733:LEU:HD13	1.70	0.68
3:A5:1094:ILE:HG23	11:I5:4:LEU:CA	2.23	0.68
6:D5:451:SER:O	6:D5:455:VAL:HG13	1.93	0.68
11:I1:966:TRP:CZ2	20:R1:166:LEU:HA	2.29	0.68
11:I1:1308:THR:O	11:I1:1312:ASN:ND2	2.26	0.68
11:I2:890:TYR:CA	17:O3:242:ARG:HG3	2.23	0.68
11:I3:1277:LEU:CG	26:X1:522:MET:SD	2.77	0.68
11:I3:1308:THR:O	11:I3:1312:ASN:ND2	2.26	0.68
11:I4:819:MET:HG2	26:X3:501:LYS:HD3	1.76	0.68
11:I5:1277:LEU:CD2	26:X2:517:ASP:HB2	2.24	0.68
17:O3:147:ALA:HB3	18:P3:328:PRO:CG	2.22	0.68
17:O4:109:PRO:CB	18:P4:318:PRO:CB	2.70	0.68
21:S1:671:ALA:N	21:S2:1146:ALA:HA	2.01	0.68
1:A3:1183:LEU:CD1	3:A6:635:ARG:HA	2.22	0.68
1:A3:1189:LEU:CD1	3:A6:579:PHE:CD1	2.70	0.68
1:A3:1196:GLU:C	3:A6:678:LEU:HD23	2.14	0.68
1:A3:1263:ILE:HG21	3:A6:715:GLU:OE1	1.94	0.68
2:A4:615:LEU:HB3	3:A6:509:LYS:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:646:ILE:N	3:A6:502:THR:N	2.41	0.68
2:A4:755:GLN:C	3:A6:544:PHE:CB	2.60	0.68
2:A4:772:SER:C	3:A6:489:LEU:HD21	1.93	0.68
2:A4:792:VAL:CA	3:A6:187:THR:HB	2.22	0.68
2:A4:816:LYS:HE3	3:A6:157:TRP:CD1	2.29	0.68
2:A4:856:PHE:N	3:A6:167:TRP:NE1	2.42	0.68
2:A4:908:LEU:HD21	6:D3:601:PHE:CB	2.19	0.68
2:A4:954:ILE:H	4:B6:346:LEU:N	1.92	0.68
3:A5:1092:ASN:HA	11:I5:33:THR:CG2	2.22	0.68
6:D3:743:HIS:NE2	11:I2:1528:ARG:CG	2.56	0.68
9:G2:258:LYS:HB2	17:O4:256:TYR:O	1.94	0.68
11:I1:987:GLY:H	15:M1:614:ASP:N	1.90	0.68
11:I1:1014:ASN:ND2	16:N1:414:ALA:CB	2.33	0.68
11:I1:1043:LEU:HA	16:N1:430:ARG:HD2	1.75	0.68
11:I1:1666:THR:N	11:I2:1664:PHE:HA	2.07	0.68
11:I2:938:CYS:C	17:O3:261:LYS:HA	2.04	0.68
11:I2:997:SER:OG	16:N3:427:VAL:HG22	1.93	0.68
11:I2:1017:VAL:N	16:N3:409:ALA:O	2.18	0.68
11:I2:1020:ALA:C	16:N3:406:HIS:HA	2.08	0.68
11:I2:1021:ILE:CA	16:N3:406:HIS:ND1	2.54	0.68
11:I2:1043:LEU:HD13	16:N3:433:GLU:HB3	1.69	0.68
11:I2:1110:SER:CB	16:N3:435:ALA:CA	2.68	0.68
11:I3:1275:SER:HB2	26:X1:508:LEU:CD1	2.23	0.68
11:I3:1278:ALA:O	26:X1:520:GLU:CB	2.41	0.68
21:S2:1074:LEU:HD13	21:S2:1122:VAL:HG13	1.74	0.68
22:T2:671:LYS:O	22:T2:674:VAL:HG12	1.94	0.68
23:U3:278:GLN:OE1	25:W4:192:GLN:N	2.27	0.68
24:V4:483:GLU:CD	24:V4:514:ARG:HH22	1.96	0.68
2:A2:460:ARG:NH2	2:A2:463:ASP:OD2	2.26	0.68
2:A2:1142:PHE:HZ	3:A5:567:VAL:CG2	0.25	0.68
1:A3:1186:TRP:CZ3	3:A6:617:VAL:HG11	2.28	0.68
1:A3:1254:LEU:N	3:A6:634:ASP:HB3	2.08	0.68
2:A4:615:LEU:CD1	3:A6:511:PHE:HD2	2.01	0.68
2:A4:721:ARG:O	3:A6:547:GLU:OE2	2.11	0.68
2:A4:893:LEU:CD2	3:A6:177:ILE:N	2.51	0.68
6:D7:578:ARG:NH2	6:D7:624:GLU:OE1	2.26	0.68
8:F1:1264:ARG:NE	17:O2:263:GLN:CA	2.56	0.68
11:I1:955:LYS:N	16:N1:403:VAL:HG23	2.09	0.68
11:I1:1031:ALA:O	20:R1:173:LEU:HD12	1.94	0.68
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG11	2.23	0.68
11:I2:896:PRO:HD3	17:O3:233:THR:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:952:LEU:C	16:N3:403:VAL:CG2	2.63	0.68
11:I2:1040:HIS:HE1	16:N3:437:VAL:CG1	2.05	0.68
11:I3:1278:ALA:CA	26:X1:520:GLU:HA	2.22	0.68
17:O2:110:LEU:CG	18:P2:321:ILE:C	2.61	0.68
17:O3:102:LYS:CG	18:P3:322:LYS:NZ	2.39	0.68
18:P1:277:PRO:CA	18:P4:323:GLN:N	2.54	0.68
21:S1:866:TYR:O	21:S1:868:ASP:N	2.24	0.68
21:S1:1074:LEU:HD13	21:S1:1122:VAL:HG13	1.74	0.68
2:A2:862:LEU:N	6:D1:606:LYS:CE	2.55	0.68
2:A2:1019:ARG:NH2	6:D1:237:PRO:C	2.46	0.68
1:A3:1158:ALA:O	3:A6:647:GLU:CA	2.42	0.68
1:A3:1192:GLN:CA	3:A6:645:PHE:CE2	2.76	0.68
2:A4:672:ARG:HG3	3:A6:96:PRO:HG2	1.29	0.68
2:A4:712:THR:C	3:A6:490:PHE:CE2	2.63	0.68
2:A4:714:GLN:OE1	3:A6:490:PHE:N	2.12	0.68
2:A4:754:HIS:CB	3:A6:93:ASP:OD1	2.39	0.68
2:A4:771:ILE:CD1	3:A6:476:PHE:CG	2.77	0.68
2:A4:795:GLN:O	3:A6:250:PHE:HE2	1.74	0.68
2:A4:882:SER:OG	3:A6:133:LYS:HD2	1.94	0.68
2:A4:985:ALA:HB3	6:D3:496:LEU:O	1.93	0.68
2:A4:1151:THR:HG23	5:C4:734:VAL:O	1.93	0.68
3:A5:1365:VAL:CG1	28:Z2:841:ALA:CB	2.72	0.68
3:A5:1406:GLY:C	28:Z2:921:THR:CB	2.62	0.68
6:D3:451:SER:O	6:D3:455:VAL:HG13	1.93	0.68
8:F1:1265:GLN:HA	17:O2:265:ASN:HB2	1.75	0.68
11:I1:939:ASN:O	17:O1:262:ASP:O	2.12	0.68
11:I1:945:LEU:CG	17:O1:257:ALA:N	2.54	0.68
11:I1:951:LYS:HB3	17:O1:253:LEU:CD2	2.24	0.68
11:I2:924:ILE:HD13	15:M3:595:MET:CG	2.24	0.68
11:I2:1013:GLU:HA	16:N3:411:GLN:OE1	1.93	0.68
11:I2:1031:ALA:C	20:R3:173:LEU:HA	2.13	0.68
11:I2:1040:HIS:O	15:M3:616:LEU:CD1	2.42	0.68
11:I2:1051:LYS:HZ3	17:O3:285:LYS:NZ	1.91	0.68
11:I3:1268:LYS:O	26:X1:524:SER:O	2.12	0.68
17:O4:110:LEU:CD2	18:P4:321:ILE:HG13	2.22	0.68
21:S2:293:ASN:CB	21:S2:310:TRP:O	2.42	0.68
21:S3:293:ASN:CB	21:S3:310:TRP:O	2.42	0.68
26:X3:163:LYS:HB2	26:X3:172:PHE:CD1	2.29	0.68
1:A3:1056:PHE:HE2	6:D3:806:ASP:C	1.98	0.68
1:A3:1236:GLN:HG3	3:A6:578:ILE:CA	2.24	0.68
1:A3:1271:ILE:CD1	3:A6:552:PHE:N	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1396:GLY:HA2	2:A4:888:GLN:CB	2.24	0.68
2:A4:79:ALA:O	3:A6:385:PRO:N	2.15	0.68
2:A4:574:ARG:NH2	3:A6:456:ASP:N	2.42	0.68
2:A4:682:ARG:HD3	3:A6:106:ALA:HA	1.69	0.68
2:A4:720:LEU:HD22	3:A6:494:PRO:C	2.06	0.68
2:A4:796:GLN:OE1	3:A6:249:SER:O	1.80	0.68
2:A4:856:PHE:HZ	3:A6:565:THR:O	1.77	0.68
2:A4:876:ARG:HD2	6:D3:559:ASP:N	2.08	0.68
2:A4:986:THR:CG2	6:D3:504:LYS:HG2	1.83	0.68
2:A4:987:LYS:CE	6:D3:555:ARG:HG2	2.22	0.68
3:A5:995:VAL:C	11:I5:61:LYS:HB2	2.14	0.68
9:G1:262:SER:CB	17:O2:256:TYR:OH	2.38	0.68
11:I1:841:PHE:CE1	17:O1:243:LEU:CD1	2.69	0.68
11:I1:942:HIS:O	17:O1:260:LEU:N	2.26	0.68
11:I1:948:ALA:HB3	17:O1:256:TYR:HB3	1.76	0.68
11:I1:1041:GLN:CG	15:M1:616:LEU:HG	2.24	0.68
11:I2:924:ILE:HG13	15:M3:597:LYS:H	1.59	0.68
11:I2:1100:ILE:HG22	16:N3:433:GLU:CD	2.04	0.68
11:I2:1109:LEU:HB3	16:N3:438:LEU:CA	2.09	0.68
11:I2:1109:LEU:HD21	17:O3:287:LEU:CD1	2.22	0.68
11:I3:1274:HIS:CG	26:X1:534:ILE:HB	2.29	0.68
22:T3:671:LYS:O	22:T3:674:VAL:HG12	1.94	0.68
27:Y3:306:GLU:N	27:Y3:324:ASP:OD2	2.27	0.68
1:A1:874:VAL:CG1	6:D3:272:VAL:CB	2.70	0.67
1:A1:875:LEU:CD1	6:D3:276:GLY:C	2.62	0.67
2:A2:973:GLU:CG	6:D1:192:TYR:CD2	2.42	0.67
2:A2:986:THR:HG23	6:D1:497:PHE:CE1	2.29	0.67
2:A2:1132:PRO:O	3:A5:138:LEU:CD2	2.42	0.67
2:A2:1142:PHE:CZ	3:A5:567:VAL:N	2.62	0.67
1:A3:1242:THR:HG22	3:A6:587:VAL:HB	1.68	0.67
2:A4:607:ARG:CD	3:A6:505:ALA:HB3	2.24	0.67
2:A4:675:ALA:CB	3:A6:508:LEU:CD1	2.72	0.67
2:A4:781:ARG:HH12	6:D3:674:TYR:HE1	1.41	0.67
3:A5:1004:HIS:HE1	11:I5:62:GLU:N	1.87	0.67
3:A5:1374:ALA:H	28:Z2:824:PHE:HA	1.58	0.67
6:D1:451:SER:O	6:D1:455:VAL:HG13	1.93	0.67
6:D2:622:PHE:CB	6:D2:645:LEU:HD21	2.25	0.67
8:F1:1262:HIS:ND1	17:O2:259:ASP:CB	2.30	0.67
11:I1:934:LEU:H	15:M1:602:MET:N	1.90	0.67
11:I1:976:ARG:HB3	20:R1:149:ARG:CA	2.24	0.67
11:I1:1023:ASP:HB2	16:N1:405:ALA:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1030:ARG:HE	20:R1:179:LYS:HD3	1.57	0.67
11:I1:1034:ASP:OD1	20:R1:177:LEU:HD23	1.94	0.67
11:I3:1277:LEU:CD2	26:X1:513:PHE:CG	2.75	0.67
17:O3:151:LEU:CD2	18:P3:325:ILE:HD11	2.20	0.67
21:S4:1074:LEU:HD13	21:S4:1122:VAL:HG13	1.74	0.67
23:U3:274:GLN:NE2	25:W4:187:TYR:OH	2.25	0.67
26:X1:163:LYS:HB2	26:X1:172:PHE:CD1	2.29	0.67
26:X3:454:LEU:O	26:X3:456:SER:N	2.26	0.67
27:Y2:306:GLU:N	27:Y2:324:ASP:OD2	2.27	0.67
1:A1:1399:ARG:NH2	2:A2:888:GLN:CB	2.57	0.67
2:A2:779:ASP:CB	6:D1:679:ILE:O	2.42	0.67
2:A2:868:GLN:CB	6:D1:598:ILE:HD13	2.24	0.67
2:A2:977:VAL:HA	6:D1:496:LEU:HD12	1.71	0.67
1:A3:1263:ILE:HG22	3:A6:715:GLU:HB2	1.76	0.67
2:A4:537:ALA:H	3:A6:368:SER:CA	1.91	0.67
2:A4:608:VAL:HG13	3:A6:100:SER:C	2.14	0.67
2:A4:673:HIS:CE1	3:A6:98:LEU:N	2.60	0.67
2:A4:674:ASP:CG	3:A6:100:SER:OG	2.30	0.67
2:A4:676:LEU:HG	3:A6:499:ILE:HG21	1.76	0.67
2:A4:701:ILE:CG1	3:A6:466:ALA:HA	1.91	0.67
2:A4:734:LEU:CD1	3:A6:95:TYR:CD2	2.78	0.67
2:A4:754:HIS:N	3:A6:540:GLN:NE2	2.41	0.67
2:A4:803:GLU:OE2	3:A6:381:LEU:HD13	1.94	0.67
2:A4:803:GLU:OE2	3:A6:394:LEU:CD2	2.12	0.67
2:A4:855:THR:CB	3:A6:168:ASP:N	2.58	0.67
2:A4:975:GLU:O	6:D3:496:LEU:C	2.32	0.67
2:A4:1019:ARG:HH12	6:D3:239:THR:N	1.91	0.67
3:A6:1398:LYS:HB3	28:Z4:920:SER:CB	2.25	0.67
11:I1:875:ARG:O	17:O1:248:SER:CA	2.42	0.67
11:I1:884:LEU:HD21	16:N1:396:ILE:HD13	1.76	0.67
11:I1:1055:GLU:HG2	17:O1:280:GLU:HG2	1.74	0.67
11:I2:840:LEU:CD2	17:O3:247:TRP:CB	2.72	0.67
11:I2:896:PRO:HB3	17:O3:233:THR:CA	2.20	0.67
11:I2:924:ILE:HD13	15:M3:595:MET:HG2	1.76	0.67
11:I2:955:LYS:CE	16:N3:396:ILE:O	2.41	0.67
11:I2:1054:ILE:HG23	17:O3:278:GLU:H	1.59	0.67
21:S3:601:LEU:N	21:S4:1156:ILE:CB	2.58	0.67
22:T4:671:LYS:O	22:T4:674:VAL:HG12	1.94	0.67
24:V1:483:GLU:CD	24:V1:514:ARG:HH22	1.96	0.67
2:A2:227:SER:HB2	6:D1:711:PHE:CB	2.23	0.67
2:A2:867:GLU:CB	6:D1:609:ILE:CG1	2.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:870:HIS:ND1	6:D1:566:PHE:CD1	2.62	0.67
2:A2:907:SER:O	6:D1:601:PHE:CB	2.42	0.67
2:A2:987:LYS:HD2	6:D1:555:ARG:NH1	2.09	0.67
2:A2:1154:PHE:HD2	3:A5:175:GLU:CG	2.05	0.67
1:A3:1188:ASN:HB3	3:A6:645:PHE:CG	2.30	0.67
1:A3:1190:ILE:CB	3:A6:615:LEU:O	2.42	0.67
1:A3:1261:TYR:CD1	3:A6:621:GLN:HB3	1.22	0.67
2:A4:720:LEU:CD1	3:A6:494:PRO:CB	2.73	0.67
2:A4:801:THR:N	3:A6:319:TYR:HH	1.72	0.67
2:A4:816:LYS:CE	3:A6:157:TRP:HD1	2.06	0.67
2:A4:878:LEU:HB2	6:D3:567:LEU:CB	2.22	0.67
2:A4:965:LYS:CE	6:D3:196:ILE:O	2.31	0.67
2:A4:1055:ARG:HD2	6:D4:762:ARG:CB	2.04	0.67
3:A5:232:LEU:CG	5:C2:739:MET:CG	2.68	0.67
6:D4:622:PHE:CB	6:D4:645:LEU:HD21	2.25	0.67
11:I1:357:ASP:OD1	11:I1:360:ARG:NH2	2.28	0.67
11:I1:1113:LEU:C	16:N1:435:ALA:CB	2.60	0.67
11:I2:887:GLN:OE1	16:N3:393:ILE:HG12	1.94	0.67
11:I2:895:ARG:HA	17:O3:234:LEU:C	2.15	0.67
11:I2:921:GLU:OE1	15:M3:592:LEU:HD11	1.94	0.67
21:S3:100:GLU:O	21:S3:103:ASP:N	2.21	0.67
21:S4:176:MET:HE3	21:S4:232:LEU:HD13	1.76	0.67
26:X4:163:LYS:HB2	26:X4:172:PHE:CD1	2.29	0.67
27:Y1:220:TRP:HA	27:Y1:231:ILE:HG22	1.76	0.67
2:A2:858:ALA:CA	6:D1:606:LYS:HE2	2.24	0.67
2:A2:980:ARG:N	6:D1:473:GLU:CG	2.58	0.67
2:A2:1131:ILE:HA	3:A5:160:ILE:CG2	2.24	0.67
1:A3:1150:LEU:HD21	3:A6:590:SER:HB2	1.76	0.67
1:A3:1242:THR:HB	3:A6:584:GLY:C	2.15	0.67
2:A4:543:GLY:CA	3:A6:364:HIS:C	2.62	0.67
2:A4:707:THR:HG21	3:A6:400:THR:C	2.14	0.67
2:A4:827:ILE:HG12	3:A6:130:ILE:O	1.91	0.67
3:A5:160:ILE:HD12	5:C2:743:LEU:O	1.94	0.67
3:A6:136:GLU:OE1	6:D3:604:ASP:O	1.88	0.67
3:A6:1391:ARG:NH1	28:Z4:873:LEU:CB	2.57	0.67
6:D1:622:PHE:CB	6:D1:645:LEU:HD21	2.25	0.67
9:G1:263:MET:HB3	17:O2:260:LEU:CG	2.23	0.67
11:I1:840:LEU:CG	17:O1:244:GLU:HG2	2.06	0.67
11:I1:980:ILE:CD1	15:M1:622:VAL:H	1.99	0.67
11:I2:886:LEU:CD1	17:O3:245:GLU:CB	2.60	0.67
11:I2:930:LEU:O	15:M3:601:ASP:O	1.96	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:947:LEU:HA	16:N3:407:ALA:CA	2.00	0.67
11:I2:992:ILE:HG23	15:M3:607:SER:O	1.70	0.67
18:P1:277:PRO:HB2	18:P4:322:LYS:H	1.58	0.67
21:S1:293:ASN:CB	21:S1:310:TRP:O	2.42	0.67
21:S1:671:ALA:HB2	21:S2:1146:ALA:N	1.99	0.67
21:S4:293:ASN:CB	21:S4:310:TRP:O	2.42	0.67
27:Y2:102:CYS:SG	27:Y2:103:THR:N	2.67	0.67
28:Z3:335:VAL:HG13	28:Z3:352:ILE:HB	1.77	0.67
1:A1:1098:ARG:NH1	11:I1:1414:CYS:HB2	2.09	0.67
2:A2:867:GLU:CB	6:D1:605:THR:HB	2.24	0.67
2:A2:1142:PHE:CE1	3:A5:566:GLY:C	2.68	0.67
1:A3:1052:THR:OG1	6:D3:816:VAL:CG2	2.42	0.67
1:A3:1153:LEU:CD1	3:A6:592:ASP:OD1	2.41	0.67
1:A3:1332:ARG:NH2	6:D3:636:ASP:OD1	2.27	0.67
2:A4:89:LEU:N	3:A6:406:LEU:CA	2.55	0.67
2:A4:602:ILE:CG1	3:A6:506:SER:HG	2.05	0.67
2:A4:684:VAL:CG1	3:A6:395:MET:SD	2.83	0.67
2:A4:685:ARG:CG	3:A6:404:LEU:HD23	2.24	0.67
2:A4:691:LYS:HB2	3:A6:316:ARG:NE	2.05	0.67
2:A4:772:SER:CA	3:A6:489:LEU:HD11	2.22	0.67
2:A4:869:ALA:HB3	6:D3:573:LEU:HD23	1.74	0.67
2:A4:985:ALA:CB	6:D3:501:LEU:H	2.07	0.67
3:A5:147:LEU:O	5:C2:747:PRO:CG	2.42	0.67
3:A6:442:ARG:NE	6:D3:692:LEU:HD21	2.09	0.67
6:D5:622:PHE:CB	6:D5:645:LEU:HD21	2.25	0.67
6:D7:622:PHE:CB	6:D7:645:LEU:HD21	2.25	0.67
9:G1:252:LEU:HD22	17:O2:254:ARG:HH21	1.59	0.67
9:G2:256:GLN:HG2	17:O4:262:ASP:H	1.60	0.67
11:I1:899:LEU:HD21	17:O1:231:ASP:OD1	1.95	0.67
11:I1:1028:CYS:HB3	20:R1:169:GLY:O	1.95	0.67
11:I1:1669:ARG:CB	11:I2:1664:PHE:HE1	1.56	0.67
11:I2:833:PHE:CD1	17:O3:245:GLU:CG	2.78	0.67
11:I2:887:GLN:HE22	16:N3:396:ILE:HB	1.60	0.67
11:I2:945:LEU:HD13	17:O3:255:GLY:CA	2.24	0.67
11:I2:965:ALA:HB3	20:R3:154:ALA:HA	1.74	0.67
11:I2:980:ILE:HD12	20:R3:147:LEU:HB2	1.71	0.67
11:I5:357:ASP:OD1	11:I5:360:ARG:NH2	2.28	0.67
27:Y4:306:GLU:N	27:Y4:324:ASP:OD2	2.27	0.67
1:A1:1399:ARG:NE	2:A2:887:GLU:HB2	2.10	0.67
2:A2:868:GLN:CB	6:D1:570:VAL:HG11	2.13	0.67
2:A2:878:LEU:HB2	6:D1:567:LEU:HD13	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1192:GLN:CA	3:A6:645:PHE:HD2	2.03	0.67
1:A3:1228:TYR:HE2	3:A6:556:PRO:HG3	1.59	0.67
1:A3:1261:TYR:CD2	3:A6:621:GLN:HG2	1.87	0.67
1:A3:1271:ILE:CG2	3:A6:550:VAL:HG12	2.24	0.67
1:A3:1391:ARG:N	3:A6:225:THR:O	1.86	0.67
2:A4:675:ALA:HB2	3:A6:508:LEU:CB	2.21	0.67
2:A4:712:THR:N	3:A6:516:TRP:CZ2	2.62	0.67
2:A4:777:LEU:C	3:A6:481:ARG:NH1	2.48	0.67
2:A4:781:ARG:NH1	6:D3:673:ARG:NH1	2.38	0.67
2:A4:821:ALA:HB3	3:A6:147:LEU:N	2.06	0.67
3:A5:1403:MSE:CB	28:Z2:920:SER:H	1.94	0.67
6:D6:622:PHE:CB	6:D6:645:LEU:HD21	2.25	0.67
9:G1:257:THR:CB	17:O2:250:LEU:HA	2.23	0.67
11:I1:1677:LYS:CE	11:I2:1543:LEU:CD1	2.70	0.67
11:I2:357:ASP:OD1	11:I2:360:ARG:NH2	2.28	0.67
11:I2:900:ARG:CG	17:O3:232:LYS:NZ	2.48	0.67
11:I5:1278:ALA:HB3	26:X2:517:ASP:OD1	1.95	0.67
17:O2:111:TYR:H	18:P2:325:ILE:HG23	1.58	0.67
17:O3:148:ARG:NE	18:P3:325:ILE:HG23	2.07	0.67
23:U3:278:GLN:HB2	25:W4:187:TYR:OH	1.93	0.67
23:U3:278:GLN:OE1	25:W4:192:GLN:HA	1.93	0.67
26:X2:163:LYS:HB2	26:X2:172:PHE:CD1	2.29	0.67
2:A2:1154:PHE:HD2	3:A5:175:GLU:OE2	1.73	0.67
1:A3:1229:VAL:CG2	3:A6:574:ARG:HG2	2.24	0.67
1:A3:1260:ALA:CB	3:A6:719:ARG:HD2	2.00	0.67
1:A3:1387:ILE:O	3:A6:225:THR:O	2.12	0.67
1:A3:1399:ARG:HB3	2:A4:884:ARG:HE	1.58	0.67
2:A4:554:GLN:NE2	3:A6:370:PRO:HD2	2.10	0.67
2:A4:669:LEU:HA	3:A6:542:LEU:HD12	1.74	0.67
2:A4:954:ILE:H	4:B6:346:LEU:H	1.42	0.67
8:F1:1137:GLN:HB2	17:O2:244:GLU:C	2.13	0.67
8:F1:1203:TRP:HH2	17:O2:248:SER:CA	1.63	0.67
8:F1:1261:TYR:CG	17:O2:259:ASP:OD2	2.46	0.67
8:F1:1267:ARG:HH2	17:O2:268:GLY:HA2	1.58	0.67
8:F1:1808:VAL:O	8:F1:1833:ARG:NH1	2.28	0.67
11:I1:834:SER:N	17:O1:237:PRO:CB	2.53	0.67
11:I1:834:SER:CA	17:O1:237:PRO:O	2.37	0.67
11:I1:951:LYS:CB	16:N1:400:LEU:O	2.41	0.67
11:I1:955:LYS:HB2	16:N1:400:LEU:CG	2.09	0.67
11:I1:1101:LEU:HD23	16:N1:432:TYR:HE1	1.59	0.67
11:I2:918:SER:OG	16:N3:389:PHE:CD2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:952:LEU:CD1	15:M3:599:ILE:HG12	2.24	0.67
11:I3:1584:LEU:HD21	12:J3:275:PHE:CD1	2.30	0.67
21:S3:138:VAL:CG1	21:S3:170:THR:HG22	2.22	0.67
27:Y1:102:CYS:SG	27:Y1:103:THR:N	2.67	0.67
27:Y1:161:PRO:HB2	27:Y1:164:HIS:CD2	2.30	0.67
1:A1:1222:ALA:O	2:A2:731:ILE:HD11	1.94	0.67
1:A1:1226:LEU:HA	2:A2:728:LYS:CB	2.25	0.67
1:A3:1170:ILE:N	3:A6:590:SER:O	2.27	0.67
1:A3:1228:TYR:HB2	3:A6:576:VAL:CG2	2.25	0.67
2:A4:90:GLN:CD	3:A6:427:MET:HG3	2.08	0.67
2:A4:616:ALA:CB	3:A6:509:LYS:CB	2.73	0.67
2:A4:796:GLN:CA	3:A6:249:SER:HB3	2.24	0.67
2:A4:825:ARG:HA	3:A6:138:LEU:CD1	2.22	0.67
2:A4:951:GLU:CD	3:A6:233:THR:C	2.52	0.67
2:A4:972:GLY:O	6:D3:206:VAL:CG1	2.41	0.67
2:A4:1094:ILE:HG21	6:D4:759:GLN:HG2	1.76	0.67
3:A5:234:LEU:N	5:C2:737:LYS:HB2	2.05	0.67
8:F1:1094:GLY:C	17:O2:237:PRO:CB	2.61	0.67
8:F1:1264:ARG:NH1	17:O2:263:GLN:C	2.30	0.67
11:I1:934:LEU:H	15:M1:602:MET:CA	1.89	0.67
11:I1:1013:GLU:O	16:N1:411:GLN:CG	2.43	0.67
11:I1:1021:ILE:HA	16:N1:406:HIS:CE1	2.23	0.67
11:I1:1021:ILE:HG12	16:N1:410:MET:CE	2.18	0.67
11:I1:1187:SER:N	17:O2:221:ASP:CG	2.48	0.67
11:I1:1668:HIS:CA	11:I2:1668:HIS:HB2	2.25	0.67
11:I1:1736:LEU:CD1	11:I2:1607:GLN:HE21	2.07	0.67
11:I2:958:THR:OG1	16:N3:399:HIS:CD2	2.46	0.67
11:I2:1034:ASP:CB	15:M3:630:LEU:CD1	2.59	0.67
27:Y4:102:CYS:SG	27:Y4:103:THR:N	2.67	0.67
2:A2:971:ALA:O	6:D1:203:PRO:CB	2.43	0.67
2:A2:1157:TYR:CZ	3:A5:167:TRP:CD1	2.83	0.67
2:A2:1160:GLN:H	3:A5:176:LEU:HB2	1.59	0.67
1:A3:1120:ASP:C	3:A6:595:GLU:HG2	2.15	0.67
1:A3:1198:GLU:HB3	3:A6:678:LEU:O	1.95	0.67
1:A3:1199:GLN:CB	3:A6:678:LEU:HD22	2.24	0.67
1:A3:1259:CYS:SG	3:A6:624:ASP:CG	2.73	0.67
2:A4:541:PRO:O	3:A6:364:HIS:CA	2.43	0.67
2:A4:555:VAL:HG23	3:A6:437:ARG:NH2	2.05	0.67
3:A5:232:LEU:HD22	5:C2:740:ARG:HG2	1.77	0.67
11:I1:928:LEU:CD1	20:R1:155:GLU:HG3	2.25	0.67
11:I1:936:LYS:HG2	15:M1:609:GLY:CA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1056:PRO:CD	17:O1:278:GLU:HG2	2.25	0.67
11:I1:1666:THR:HG21	11:I2:1602:PHE:CD1	2.29	0.67
11:I2:828:VAL:CG1	17:O3:237:PRO:HG2	2.19	0.67
11:I2:917:TYR:CG	15:M3:591:ASP:N	2.49	0.67
11:I2:950:LEU:CD2	16:N3:410:MET:HE3	2.22	0.67
11:I2:1020:ALA:CA	16:N3:410:MET:H	2.01	0.67
11:I2:1040:HIS:C	15:M3:616:LEU:HD12	1.92	0.67
11:I5:1281:GLU:CD	26:X2:516:ASN:ND2	2.48	0.67
18:P2:320:GLN:CD	18:P3:278:ASN:CB	2.63	0.67
23:U2:162:LEU:HB3	24:V2:315:LYS:HG3	1.74	0.67
2:A2:972:GLY:N	6:D1:204:ASN:HA	2.08	0.67
2:A2:980:ARG:HH22	6:D1:503:LEU:CD1	2.08	0.67
2:A2:980:ARG:HH22	6:D1:503:LEU:HD12	1.58	0.67
1:A3:1285:LEU:HD13	3:A6:581:LYS:HA	1.77	0.67
2:A4:685:ARG:CB	3:A6:404:LEU:HD23	2.24	0.67
2:A4:715:GLU:CA	3:A6:515:THR:N	2.54	0.67
2:A4:792:VAL:N	3:A6:247:ASP:OD1	2.28	0.67
2:A4:795:GLN:HB3	3:A6:249:SER:HG	1.59	0.67
3:A6:520:GLU:C	6:D3:639:LEU:HD11	2.09	0.67
3:A6:1368:GLN:HA	28:Z4:875:LEU:CB	2.19	0.67
6:D3:622:PHE:CB	6:D3:645:LEU:HD21	2.25	0.67
11:I1:828:VAL:O	17:O1:237:PRO:CG	2.42	0.67
11:I1:923:GLY:HA2	15:M1:590:LYS:CA	2.25	0.67
11:I1:931:VAL:HG23	15:M1:604:ASN:H	1.56	0.67
11:I1:947:LEU:CD1	16:N1:407:ALA:O	2.43	0.67
11:I1:1052:LEU:H	17:O1:286:ILE:CB	2.07	0.67
11:I1:1665:LEU:CD1	11:I2:1667:GLN:NE2	2.53	0.67
11:I1:1667:GLN:HG2	11:I2:1665:LEU:CD2	2.18	0.67
11:I2:850:ILE:HG23	15:M3:598:GLU:CD	1.94	0.67
11:I3:1276:GLN:NE2	26:X1:534:ILE:O	2.23	0.67
11:I3:1278:ALA:CB	26:X1:516:ASN:O	2.41	0.67
21:S3:176:MET:HE2	21:S3:212:LEU:CD1	2.25	0.67
27:Y3:220:TRP:HA	27:Y3:231:ILE:HG22	1.76	0.67
2:A2:867:GLU:CD	6:D1:593:ARG:HH21	1.97	0.66
2:A2:1019:ARG:HH22	6:D1:237:PRO:C	1.98	0.66
2:A2:1305:ALA:HB1	2:A2:1306:PRO:HD3	1.75	0.66
1:A3:1186:TRP:CZ3	3:A6:583:LEU:CD2	2.79	0.66
1:A3:1191:ASN:ND2	3:A6:723:PHE:CE2	2.59	0.66
2:A4:90:GLN:CB	3:A6:428:GLN:CB	2.45	0.66
2:A4:678:LEU:O	3:A6:431:PHE:CE2	2.47	0.66
2:A4:769:GLU:O	3:A6:528:ILE:CG1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:770:GLY:CA	3:A6:469:PHE:CB	1.98	0.66
2:A4:779:ASP:O	6:D3:679:ILE:HB	1.88	0.66
2:A4:860:GLU:HG3	6:D3:606:LYS:HB3	1.70	0.66
2:A4:1120:ASP:OD2	2:A4:1241:ARG:NH2	2.28	0.66
3:A5:1381:ALA:C	28:Z2:813:CYS:CB	2.52	0.66
8:F1:1137:GLN:CB	17:O2:248:SER:CA	2.69	0.66
9:G2:255:LEU:C	17:O4:262:ASP:OD2	2.33	0.66
11:I1:837:MET:CE	17:O1:242:ARG:H	1.82	0.66
11:I1:882:LYS:CA	17:O1:249:ARG:HD2	2.24	0.66
11:I1:939:ASN:O	17:O1:262:ASP:HA	1.95	0.66
11:I1:953:LEU:HD23	15:M1:599:ILE:O	1.93	0.66
11:I1:976:ARG:N	20:R1:149:ARG:HB3	2.10	0.66
11:I1:1049:LEU:CB	17:O1:291:ASP:CB	2.56	0.66
11:I1:1584:LEU:HD21	12:J1:275:PHE:CD1	2.30	0.66
11:I2:1053:GLY:O	17:O3:279:ILE:C	2.28	0.66
11:I3:357:ASP:OD1	11:I3:360:ARG:NH2	2.28	0.66
17:O1:103:VAL:CG1	18:P1:326:GLN:HE21	1.90	0.66
21:S3:176:MET:HE3	21:S3:232:LEU:CD1	2.24	0.66
27:Y3:161:PRO:HB2	27:Y3:164:HIS:CD2	2.30	0.66
28:Z1:335:VAL:HG13	28:Z1:352:ILE:HB	1.77	0.66
1:A3:1091:VAL:HG22	6:D3:808:ASN:CG	2.16	0.66
1:A3:1123:GLU:CG	3:A6:599:ARG:HD2	2.14	0.66
1:A3:1224:PRO:CG	2:A4:734:LEU:HD22	2.26	0.66
1:A3:1259:CYS:CA	3:A6:624:ASP:OD1	2.44	0.66
2:A4:720:LEU:CD2	3:A6:499:ILE:HD11	2.21	0.66
2:A4:724:LEU:HD11	3:A6:494:PRO:HB2	1.76	0.66
2:A4:728:LYS:HG2	3:A6:548:LEU:HD22	1.76	0.66
2:A4:761:GLN:OE1	3:A6:547:GLU:CA	2.42	0.66
2:A4:860:GLU:OE1	3:A6:129:ASN:CB	2.42	0.66
2:A4:983:LEU:CG	6:D3:528:PHE:CZ	2.45	0.66
3:A5:1365:VAL:CA	28:Z2:841:ALA:C	2.56	0.66
3:A6:136:GLU:CD	6:D3:602:THR:C	2.54	0.66
3:A6:445:THR:O	6:D3:730:ARG:CD	2.32	0.66
8:F2:1808:VAL:O	8:F2:1833:ARG:NH1	2.28	0.66
9:G1:258:LYS:H	17:O2:253:LEU:N	1.93	0.66
11:I1:797:LEU:HD22	17:O1:241:SER:OG	1.94	0.66
11:I1:899:LEU:O	17:O1:232:LYS:CE	2.33	0.66
11:I1:922:ASP:CA	15:M1:592:LEU:HB3	2.25	0.66
11:I1:961:ARG:NH1	16:N1:389:PHE:CA	2.53	0.66
11:I2:895:ARG:CA	17:O3:234:LEU:O	2.42	0.66
11:I2:896:PRO:O	17:O3:232:LYS:O	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:925:LEU:HG	15:M3:593:ALA:HB1	1.77	0.66
11:I2:994:ALA:C	17:O3:267:ALA:O	2.34	0.66
11:I2:1032:THR:CB	20:R3:173:LEU:HD11	2.15	0.66
11:I2:1042:LEU:O	16:N3:430:ARG:NE	2.28	0.66
11:I2:1046:HIS:N	17:O3:280:GLU:HB3	2.10	0.66
27:Y2:161:PRO:HB2	27:Y2:164:HIS:CD2	2.30	0.66
27:Y3:102:CYS:SG	27:Y3:103:THR:N	2.67	0.66
1:A1:1098:ARG:NH2	11:I1:1478:VAL:HA	2.11	0.66
1:A1:1204:TRP:HZ3	2:A2:757:LEU:HD13	1.52	0.66
2:A2:989:MSE:SE	6:D1:241:ALA:HB2	2.45	0.66
2:A2:1151:THR:CA	5:C2:733:LEU:CA	2.60	0.66
1:A3:1196:GLU:OE2	3:A6:610:THR:N	2.28	0.66
1:A3:1230:TYR:HD1	3:A6:613:ALA:HB2	1.56	0.66
1:A3:1249:PHE:CE1	3:A6:637:THR:OG1	2.39	0.66
1:A3:1251:VAL:CG2	3:A6:633:MET:HB3	2.06	0.66
1:A3:1282:PHE:N	3:A6:625:LEU:CB	2.37	0.66
2:A4:574:ARG:NH1	3:A6:453:SER:C	2.43	0.66
2:A4:648:TYR:CD2	3:A6:504:PRO:HD3	2.30	0.66
2:A4:768:SER:H	3:A6:476:PHE:N	1.85	0.66
2:A4:782:VAL:CG2	6:D3:677:GLN:CA	2.67	0.66
2:A4:909:LYS:HG3	6:D3:552:TYR:CG	2.27	0.66
11:I1:833:PHE:C	17:O1:241:SER:HB2	2.15	0.66
11:I1:873:ILE:CG2	17:O1:254:ARG:CB	2.74	0.66
11:I1:881:ILE:HG13	17:O1:249:ARG:O	1.94	0.66
11:I1:954:GLU:CB	16:N1:403:VAL:CA	2.72	0.66
11:I1:978:LYS:HG3	20:R1:150:ASN:C	2.16	0.66
11:I1:1055:GLU:CA	17:O1:281:ALA:N	2.47	0.66
11:I2:840:LEU:HD13	17:O3:247:TRP:HD1	1.61	0.66
11:I2:917:TYR:O	15:M3:588:MET:HB3	1.95	0.66
11:I2:1020:ALA:C	16:N3:406:HIS:CA	2.61	0.66
11:I2:1055:GLU:N	17:O3:281:ALA:H	1.93	0.66
11:I3:1267:LEU:CA	26:X1:529:TRP:HA	2.21	0.66
11:I3:1276:GLN:CD	26:X1:535:ALA:O	2.34	0.66
11:I5:1584:LEU:HD21	12:J5:275:PHE:CD1	2.30	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
2:A2:968:SER:CA	6:D1:202:GLN:HA	2.26	0.66
2:A2:1120:ASP:OD2	2:A2:1241:ARG:NH2	2.28	0.66
2:A2:1160:GLN:CG	3:A5:165:PHE:CA	2.72	0.66
1:A3:1091:VAL:CG2	6:D3:808:ASN:HB2	2.25	0.66
1:A3:1091:VAL:CG1	6:D3:801:TYR:CZ	2.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1186:TRP:CZ2	3:A6:637:THR:CG2	2.39	0.66
1:A3:1199:GLN:N	2:A4:729:SER:C	2.48	0.66
1:A3:1230:TYR:CZ	3:A6:610:THR:N	2.43	0.66
1:A3:1232:SER:CB	3:A6:574:ARG:O	2.39	0.66
1:A3:1244:LEU:HA	3:A6:633:MET:CE	2.23	0.66
1:A3:1332:ARG:C	6:D3:637:LYS:HD3	2.11	0.66
2:A4:615:LEU:HG	3:A6:509:LYS:O	1.90	0.66
2:A4:781:ARG:HH21	6:D3:633:LYS:NZ	1.94	0.66
2:A4:876:ARG:HG3	6:D3:558:LYS:HA	1.69	0.66
2:A4:985:ALA:HB1	6:D3:500:LYS:C	2.15	0.66
2:A4:1019:ARG:HH12	6:D3:239:THR:CA	2.08	0.66
3:A5:153:ILE:HD12	5:C2:739:MET:HE3	0.71	0.66
3:A6:1416:ARG:CA	28:Z4:1002:MET:H	2.07	0.66
11:I1:899:LEU:HD21	17:O1:231:ASP:CG	2.13	0.66
11:I2:936:LYS:CA	15:M3:609:GLY:CA	2.65	0.66
11:I2:1110:SER:HB3	16:N3:435:ALA:HA	1.78	0.66
17:O3:102:LYS:HB3	18:P3:322:LYS:CD	2.25	0.66
21:S4:866:TYR:O	21:S4:868:ASP:N	2.24	0.66
27:Y4:161:PRO:HB2	27:Y4:164:HIS:CD2	2.30	0.66
27:Y4:220:TRP:HA	27:Y4:231:ILE:HG22	1.76	0.66
2:A2:857:LYS:O	6:D1:606:LYS:CE	2.43	0.66
2:A2:1143:LEU:CA	3:A5:129:ASN:CB	2.73	0.66
2:A2:1156:ASP:CA	3:A5:166:LEU:O	2.27	0.66
1:A3:1179:PRO:O	3:A6:639:ASN:ND2	2.26	0.66
1:A3:1270:SER:OG	3:A6:553:ASP:C	2.32	0.66
2:A4:684:VAL:HG11	3:A6:395:MET:SD	2.36	0.66
2:A4:727:ASN:CG	3:A6:605:TYR:CD1	2.68	0.66
2:A4:792:VAL:HG23	3:A6:187:THR:OG1	1.96	0.66
3:A6:485:ASN:OD1	6:D3:670:ILE:O	2.14	0.66
3:A6:519:LEU:N	6:D3:686:ASP:CG	2.49	0.66
8:F2:1089:PRO:O	17:O4:245:GLU:O	2.13	0.66
11:I1:884:LEU:CD2	16:N1:396:ILE:HD13	2.26	0.66
11:I1:895:ARG:HH21	17:O1:233:THR:CG2	2.09	0.66
11:I1:966:TRP:CH2	20:R1:166:LEU:HA	2.31	0.66
11:I1:967:SER:OG	15:M1:628:ALA:HB3	1.94	0.66
11:I1:989:GLY:N	15:M1:614:ASP:CG	2.48	0.66
11:I1:1013:GLU:CA	16:N1:411:GLN:CD	2.61	0.66
11:I1:1038:ILE:HD13	15:M1:620:VAL:CB	2.25	0.66
11:I1:1038:ILE:HD11	20:R1:167:GLN:CD	2.15	0.66
11:I1:1607:GLN:OE1	11:I2:1738:TYR:N	2.28	0.66
11:I1:1665:LEU:O	11:I2:1668:HIS:CD2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:836:VAL:CG1	17:O3:244:GLU:CB	1.89	0.66
11:I2:950:LEU:HB2	16:N3:407:ALA:HA	1.77	0.66
11:I2:955:LYS:CA	16:N3:403:VAL:HG23	2.24	0.66
11:I2:1106:LYS:HB3	16:N3:440:GLU:CG	2.21	0.66
17:O4:109:PRO:O	18:P1:278:ASN:ND2	2.28	0.66
21:S4:251:MET:HG3	21:S4:272:LEU:HB2	1.78	0.66
27:Y1:306:GLU:N	27:Y1:324:ASP:OD2	2.27	0.66
27:Y2:220:TRP:HA	27:Y2:231:ILE:HG22	1.76	0.66
1:A1:1399:ARG:CZ	2:A2:888:GLN:HG3	2.25	0.66
2:A2:226:PRO:HG2	6:D1:711:PHE:H	1.61	0.66
2:A2:227:SER:HB3	6:D1:712:ASP:N	2.10	0.66
2:A2:908:LEU:CD2	6:D1:602:THR:H	2.05	0.66
2:A2:1143:LEU:C	3:A5:129:ASN:CB	2.63	0.66
1:A3:1235:ILE:CD1	3:A6:617:VAL:HG22	2.23	0.66
1:A3:1251:VAL:H	3:A6:633:MET:HB3	1.60	0.66
1:A3:1392:ARG:CZ	3:A6:231:SER:HB3	2.25	0.66
2:A4:682:ARG:NE	3:A6:106:ALA:N	2.43	0.66
2:A4:727:ASN:CG	3:A6:605:TYR:CA	2.51	0.66
2:A4:750:ASN:HD22	3:A6:90:GLN:HG2	1.56	0.66
2:A4:778:PHE:CE1	3:A6:466:ALA:HB3	2.29	0.66
2:A4:823:VAL:HG11	3:A6:167:TRP:CE2	2.28	0.66
2:A4:864:ARG:HD3	6:D3:607:PRO:C	2.15	0.66
2:A4:868:GLN:HG3	6:D3:608:ILE:HG21	1.76	0.66
2:A4:876:ARG:HD3	6:D3:565:MET:HG2	0.76	0.66
2:A4:983:LEU:CG	6:D3:497:PHE:CE2	2.78	0.66
2:A4:989:MSE:HG3	6:D3:500:LYS:HD2	1.76	0.66
3:A5:998:SER:O	11:I5:63:PRO:CD	2.37	0.66
3:A5:1029:ILE:HG21	11:I5:71:GLU:H	1.59	0.66
5:C1:732:LYS:CG	11:I1:1228:GLU:HG3	2.26	0.66
6:D6:800:PRO:HG2	22:T3:765:LYS:HE3	1.75	0.66
8:F2:1137:GLN:NE2	17:O4:252:VAL:N	2.26	0.66
8:F2:1329:LYS:O	8:F2:1364:ASN:ND2	2.29	0.66
11:I1:882:LYS:H	17:O1:249:ARG:HB3	1.32	0.66
11:I1:955:LYS:CG	16:N1:397:GLU:O	2.42	0.66
11:I1:1038:ILE:N	20:R1:169:GLY:HA2	2.10	0.66
11:I2:840:LEU:CG	17:O3:247:TRP:CD1	2.79	0.66
11:I2:846:ILE:CG2	17:O3:247:TRP:HZ2	2.02	0.66
11:I2:882:LYS:HB2	17:O3:249:ARG:H	1.60	0.66
11:I2:947:LEU:CG	16:N3:407:ALA:C	2.38	0.66
11:I2:957:SER:HB3	20:R3:167:GLN:O	1.95	0.66
11:I2:958:THR:HB	16:N3:399:HIS:CB	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:960:SER:O	20:R3:165:SER:HB2	1.95	0.66
11:I2:977:ASN:CB	20:R3:146:LEU:O	2.44	0.66
11:I2:1017:VAL:CA	16:N3:409:ALA:O	2.43	0.66
11:I2:1045:PHE:CB	15:M3:619:ILE:CD1	2.74	0.66
24:V1:152:ALA:HB1	24:V1:160:LEU:HD11	1.78	0.66
24:V3:152:ALA:HB1	24:V3:160:LEU:HD11	1.78	0.66
28:Z2:335:VAL:HG13	28:Z2:352:ILE:HB	1.77	0.66
2:A2:1136:LYS:HG3	3:A5:138:LEU:CA	2.25	0.66
1:A3:1017:THR:CG2	6:D3:819:ASN:CB	2.23	0.66
1:A3:1162:ASN:HB3	3:A6:645:PHE:O	1.95	0.66
1:A3:1163:TYR:CG	3:A6:648:TYR:HA	2.26	0.66
1:A3:1189:LEU:CB	3:A6:641:ALA:HB1	2.23	0.66
1:A3:1237:LEU:HD22	3:A6:597:GLU:OE2	1.96	0.66
2:A4:89:LEU:HD22	3:A6:429:LEU:HD13	1.78	0.66
2:A4:672:ARG:HG2	3:A6:96:PRO:CG	0.31	0.66
2:A4:720:LEU:CD1	3:A6:494:PRO:CA	2.64	0.66
2:A4:871:ASN:O	6:D3:568:ARG:N	2.20	0.66
2:A4:880:ALA:HB2	6:D3:558:LYS:CD	2.26	0.66
3:A5:1098:ARG:HE	11:I5:29:GLN:CG	2.00	0.66
3:A6:1400:SER:HB3	28:Z4:961:PHE:CB	2.26	0.66
9:G1:255:LEU:HD13	17:O2:258:GLU:H	1.59	0.66
11:I1:1065:SER:HB3	16:N1:431:VAL:HG23	1.77	0.66
11:I1:1611:PHE:CZ	11:I2:1669:ARG:NH1	2.64	0.66
11:I1:1669:ARG:N	11:I2:1664:PHE:CE1	2.59	0.66
11:I1:1738:TYR:OH	11:I2:1602:PHE:HB2	1.95	0.66
11:I2:847:THR:N	15:M3:594:LYS:CE	2.58	0.66
11:I2:873:ILE:CG2	17:O3:254:ARG:HG2	2.24	0.66
11:I2:887:GLN:CD	16:N3:393:ILE:HG12	2.16	0.66
11:I2:966:TRP:CH2	20:R3:167:GLN:NE2	2.59	0.66
11:I3:1433:THR:CG2	12:J3:270:ARG:HD3	2.26	0.66
18:P1:276:SER:C	18:P4:322:LYS:CD	2.60	0.66
1:A1:868:GLN:O	6:D3:277:ASN:CA	2.44	0.66
1:A1:870:HIS:CA	6:D3:280:GLN:N	2.59	0.66
1:A3:1120:ASP:C	3:A6:599:ARG:NH2	2.48	0.66
1:A3:1230:TYR:HD1	3:A6:609:GLU:O	1.73	0.66
2:A4:720:LEU:CD1	3:A6:494:PRO:HB3	2.26	0.66
2:A4:826:ASN:OD1	3:A6:135:PHE:HE1	1.78	0.66
2:A4:864:ARG:N	6:D3:607:PRO:HD2	2.10	0.66
2:A4:867:GLU:CB	6:D3:605:THR:HB	2.26	0.66
2:A4:955:CYS:H	4:B6:345:LYS:HA	1.59	0.66
2:A4:975:GLU:C	6:D3:496:LEU:CB	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1395:LYS:HA	28:Z4:919:PHE:C	2.05	0.66
9:G1:263:MET:HB3	17:O2:260:LEU:HB2	1.78	0.66
11:I1:955:LYS:CD	16:N1:401:THR:N	2.18	0.66
11:I2:899:LEU:HD23	17:O3:235:ASN:ND2	2.10	0.66
11:I2:944:GLU:CB	17:O3:256:TYR:CE1	2.76	0.66
11:I2:968:PRO:HG2	20:R3:149:ARG:NH1	2.10	0.66
11:I2:982:GLN:H	15:M3:621:ARG:NH1	1.92	0.66
11:I2:1109:LEU:HA	17:O3:290:TYR:HH	1.61	0.66
11:I2:1433:THR:CG2	12:J2:270:ARG:HD3	2.26	0.66
11:I4:1421:ARG:NH2	11:I4:1482:ASP:OD1	2.29	0.66
11:I4:1433:THR:CG2	12:J4:270:ARG:HD3	2.26	0.66
11:I5:1279:THR:CG2	26:X2:521:TRP:N	2.59	0.66
17:O4:111:TYR:OH	18:P4:321:ILE:HD13	1.96	0.66
21:S1:678:GLU:N	21:S2:1127:GLN:HB3	1.51	0.66
23:U2:8:GLN:C	23:U2:10:GLU:H	1.99	0.66
1:A1:1083:SER:HG	6:D1:798:MET:CE	2.09	0.66
1:A1:1225:PRO:O	2:A2:728:LYS:N	2.28	0.66
2:A2:873:PRO:HD3	6:D1:568:ARG:HE	1.54	0.66
2:A2:1135:ARG:HA	3:A5:147:LEU:CG	2.25	0.66
2:A2:1137:ALA:HB1	3:A5:564:ASN:ND2	2.11	0.66
2:A2:1151:THR:HA	5:C2:733:LEU:HD13	1.70	0.66
2:A2:1160:GLN:NE2	3:A5:165:PHE:HA	2.08	0.66
1:A3:1257:VAL:HA	3:A6:719:ARG:NH2	2.11	0.66
2:A4:611:ILE:HG21	3:A6:508:LEU:HD12	1.60	0.66
2:A4:635:ARG:NH2	3:A6:602:ILE:N	2.44	0.66
2:A4:642:ARG:CD	3:A6:604:GLN:O	2.31	0.66
2:A4:691:LYS:HZ1	3:A6:330:LEU:C	1.96	0.66
2:A4:691:LYS:HG2	3:A6:378:ILE:O	1.96	0.66
2:A4:761:GLN:HE22	3:A6:546:ASN:C	1.98	0.66
2:A4:777:LEU:CD2	3:A6:526:ILE:HG12	2.25	0.66
2:A4:917:LEU:HD11	3:A6:175:GLU:OE1	1.96	0.66
2:A4:955:CYS:SG	4:B6:345:LYS:HB2	2.36	0.66
2:A4:989:MSE:HE1	6:D3:240:ASP:OD2	1.95	0.66
3:A5:999:SER:HA	11:I5:63:PRO:N	2.11	0.66
3:A5:1369:ILE:CG1	28:Z2:832:PHE:N	2.55	0.66
3:A6:1392:ARG:HB2	28:Z4:910:GLN:N	1.81	0.66
3:A6:1398:LYS:CD	28:Z4:921:THR:CB	2.74	0.66
8:F2:1137:GLN:CB	17:O4:251:ILE:CD1	2.29	0.66
9:G1:250:THR:CB	15:M2:605:THR:HG22	2.26	0.66
9:G1:263:MET:CG	17:O2:260:LEU:HD22	2.26	0.66
9:G2:257:THR:HG23	17:O4:257:ALA:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1029:LEU:HD13	16:N3:433:GLU:HG3	1.72	0.66
11:I2:1041:GLN:NE2	15:M3:614:ASP:OD2	2.29	0.66
11:I4:357:ASP:OD1	11:I4:360:ARG:NH2	2.28	0.66
11:I4:1276:GLN:CG	26:X3:521:TRP:H	2.09	0.66
11:I4:1584:LEU:HD21	12:J4:275:PHE:CD1	2.30	0.66
11:I5:1421:ARG:NH2	11:I5:1482:ASP:OD1	2.29	0.66
2:A2:984:ALA:HB2	6:D1:553:PHE:CE2	2.31	0.66
2:A2:1138:GLU:HB3	3:A5:147:LEU:HD11	1.74	0.66
2:A2:1144:ASP:O	3:A5:129:ASN:ND2	2.29	0.66
1:A3:1021:LEU:CG	6:D3:816:VAL:O	2.44	0.66
1:A3:1120:ASP:HB3	3:A6:595:GLU:C	2.16	0.66
1:A3:1224:PRO:N	3:A6:496:THR:O	2.28	0.66
1:A3:1301:ASP:OD2	1:A3:1361:ARG:NH1	2.29	0.66
2:A4:889:VAL:HG23	3:A6:175:GLU:H	1.61	0.66
3:A5:1406:GLY:N	28:Z2:918:PHE:N	2.37	0.66
4:B5:344:ALA:HB1	5:C2:737:LYS:CB	2.25	0.66
11:I1:842:ASN:O	15:M1:591:ASP:HB2	1.96	0.66
11:I1:980:ILE:O	15:M1:618:GLN:CA	2.42	0.66
11:I1:1049:LEU:N	15:M1:622:VAL:HG11	2.11	0.66
11:I1:1667:GLN:C	11:I2:1664:PHE:C	2.22	0.66
11:I2:1607:GLN:CB	12:J1:298:PHE:CE1	2.77	0.66
21:S2:313:ASN:O	21:S2:317:LYS:HB2	1.96	0.66
28:Z4:335:VAL:HG13	28:Z4:352:ILE:HB	1.77	0.66
1:A1:875:LEU:HD13	6:D3:277:ASN:HB2	1.78	0.65
1:A1:1301:ASP:OD2	1:A1:1361:ARG:NH1	2.29	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:CZ	2.07	0.65
2:A2:1055:ARG:N	6:D2:762:ARG:HA	2.11	0.65
2:A2:1160:GLN:CG	3:A5:165:PHE:HA	2.25	0.65
1:A3:1117:ILE:HD13	3:A6:591:ASP:C	1.44	0.65
1:A3:1182:ILE:HG22	3:A6:639:ASN:HD22	1.60	0.65
1:A3:1193:SER:O	3:A6:609:GLU:O	2.14	0.65
1:A3:1238:ILE:HG21	3:A6:640:LEU:CD1	2.26	0.65
1:A3:1282:PHE:HD1	3:A6:625:LEU:HB2	1.61	0.65
2:A4:544:PHE:CA	3:A6:362:PHE:O	2.39	0.65
2:A4:613:ALA:O	3:A6:511:PHE:CZ	2.49	0.65
2:A4:908:LEU:HD23	6:D3:601:PHE:C	2.15	0.65
2:A4:951:GLU:OE2	3:A6:234:LEU:N	2.29	0.65
2:A4:983:LEU:CD1	6:D3:497:PHE:CE2	2.79	0.65
3:A5:1411:ARG:NH2	26:X2:743:PHE:C	2.50	0.65
3:A6:1403:MSE:CG	26:X4:742:ALA:CA	2.43	0.65
8:F1:1137:GLN:H	17:O2:245:GLU:HA	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:253:SER:HG	15:M2:601:ASP:HB3	1.55	0.65
11:I1:895:ARG:CZ	17:O1:233:THR:HG22	2.26	0.65
11:I1:1046:HIS:ND1	17:O1:284:LYS:N	2.26	0.65
11:I2:270:TRP:NE1	11:I2:272:LYS:O	2.29	0.65
11:I2:914:ASN:O	15:M3:588:MET:CA	2.44	0.65
11:I2:950:LEU:CB	16:N3:406:HIS:HD2	2.07	0.65
11:I2:953:LEU:CD2	15:M3:603:SER:OG	2.15	0.65
11:I2:977:ASN:ND2	15:M3:621:ARG:HB3	2.11	0.65
11:I3:1421:ARG:NH2	11:I3:1482:ASP:OD1	2.29	0.65
11:I5:270:TRP:NE1	11:I5:272:LYS:O	2.29	0.65
17:O3:147:ALA:CA	18:P3:328:PRO:HB2	2.26	0.65
21:S1:652:VAL:HA	21:S2:1156:ILE:HA	1.78	0.65
23:U2:242:LEU:HD22	24:V2:305:VAL:HG22	1.78	0.65
23:U3:278:GLN:N	25:W4:192:GLN:HE22	1.94	0.65
2:A2:871:ASN:N	6:D1:567:LEU:O	2.29	0.65
1:A3:773:PHE:HZ	1:A3:818:LEU:HD12	1.62	0.65
1:A3:1054:SER:OG	6:D3:810:ARG:CA	2.36	0.65
1:A3:1099:GLN:CB	11:I2:1414:CYS:O	2.44	0.65
1:A3:1182:ILE:HG21	3:A6:636:ASN:OD1	1.96	0.65
1:A3:1311:ARG:NH2	3:A6:711:VAL:O	2.29	0.65
2:A4:647:GLU:HB2	3:A6:503:GLN:CB	2.26	0.65
2:A4:779:ASP:CA	3:A6:487:ASP:H	2.09	0.65
2:A4:861:GLN:CB	6:D3:606:LYS:NZ	2.58	0.65
3:A5:146:LYS:NZ	5:C2:747:PRO:CG	2.55	0.65
3:A5:1151:THR:OG1	5:C5:734:VAL:N	2.29	0.65
3:A5:1374:ALA:CA	28:Z2:823:ALA:HB1	2.26	0.65
11:I1:270:TRP:NE1	11:I1:272:LYS:O	2.30	0.65
11:I1:878:GLN:HE21	17:O1:252:VAL:HG11	1.60	0.65
11:I1:931:VAL:CB	15:M1:604:ASN:OD1	2.43	0.65
11:I1:950:LEU:HD21	16:N1:406:HIS:CD2	2.20	0.65
11:I1:952:LEU:O	16:N1:400:LEU:CD2	2.41	0.65
11:I1:984:GLU:HG3	15:M1:617:THR:CG2	2.26	0.65
11:I1:1670:GLY:CA	11:I2:1639:LEU:HD22	2.27	0.65
11:I2:890:TYR:C	17:O3:239:GLN:CA	1.79	0.65
11:I2:947:LEU:HD13	17:O3:260:LEU:HD22	1.74	0.65
11:I2:1045:PHE:CA	17:O3:280:GLU:HA	2.25	0.65
11:I3:270:TRP:NE1	11:I3:272:LYS:O	2.30	0.65
11:I5:1433:THR:CG2	12:J5:270:ARG:HD3	2.26	0.65
17:O2:110:LEU:HD11	18:P2:321:ILE:HB	1.78	0.65
23:U1:8:GLN:C	23:U1:10:GLU:H	1.99	0.65
23:U4:242:LEU:HD22	24:V4:305:VAL:HG22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:119:GLY:O	26:X1:122:ARG:HG2	1.97	0.65
28:Z2:55:GLU:HB2	28:Z2:74:SER:HA	1.78	0.65
1:A1:1220:PRO:O	2:A2:646:ILE:CA	2.44	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:HB2	1.62	0.65
2:A2:781:ARG:HE	6:D1:673:ARG:HB3	1.46	0.65
2:A2:980:ARG:CB	6:D1:526:LEU:CB	2.70	0.65
1:A3:1248:ILE:CD1	3:A6:587:VAL:HG23	2.03	0.65
1:A3:1277:TRP:CB	3:A6:556:PRO:HG3	2.25	0.65
1:A3:1366:LEU:HD13	3:A6:226:PRO:O	1.95	0.65
2:A4:87:GLN:O	3:A6:430:GLN:HG3	1.96	0.65
2:A4:607:ARG:O	3:A6:505:ALA:C	2.35	0.65
2:A4:727:ASN:ND2	3:A6:605:TYR:CA	2.57	0.65
2:A4:737:PRO:HA	3:A6:89:LEU:CB	2.21	0.65
2:A4:763:LEU:CD1	3:A6:470:ARG:HD3	2.26	0.65
2:A4:805:LEU:CD1	3:A6:468:GLY:O	2.44	0.65
2:A4:917:LEU:HG	4:B6:342:ARG:HD2	1.78	0.65
3:A5:1365:VAL:HG21	28:Z2:838:GLN:CA	2.26	0.65
3:A6:1364:GLN:HG2	28:Z4:876:LEU:O	1.96	0.65
8:F1:1329:LYS:O	8:F1:1364:ASN:ND2	2.29	0.65
9:G1:263:MET:O	16:N2:411:GLN:CB	2.40	0.65
11:I1:1038:ILE:HG13	20:R1:167:GLN:CG	2.27	0.65
11:I1:1421:ARG:NH2	11:I1:1482:ASP:OD1	2.29	0.65
11:I2:896:PRO:O	17:O3:232:LYS:C	2.35	0.65
11:I2:954:GLU:HG3	20:R3:172:ASP:OD2	1.96	0.65
11:I2:1040:HIS:NE2	16:N3:437:VAL:CB	2.58	0.65
11:I2:1048:GLU:CB	17:O3:284:LYS:C	2.65	0.65
11:I4:270:TRP:NE1	11:I4:272:LYS:O	2.30	0.65
11:I4:813:ILE:HD12	26:X3:496:THR:HG21	0.68	0.65
11:I4:1280:PRO:HD3	26:X3:520:GLU:OE1	1.97	0.65
21:S4:313:ASN:O	21:S4:317:LYS:HB2	1.96	0.65
24:V1:209:PRO:HB3	24:V1:532:LYS:HB2	1.78	0.65
26:X2:119:GLY:O	26:X2:122:ARG:HG2	1.96	0.65
26:X3:119:GLY:O	26:X3:122:ARG:HG2	1.96	0.65
27:Y1:221:ALA:HB2	27:Y1:312:TRP:CE2	2.31	0.65
1:A1:1224:PRO:CA	2:A2:723:PHE:O	2.34	0.65
2:A2:864:ARG:HH21	6:D1:634:ASN:HB2	1.62	0.65
2:A2:871:ASN:HB2	6:D1:571:SER:HB2	1.78	0.65
1:A3:1231:VAL:HA	3:A6:613:ALA:CB	2.16	0.65
1:A3:1235:ILE:O	3:A6:580:ALA:O	2.05	0.65
1:A3:1392:ARG:CZ	3:A6:231:SER:HB2	2.26	0.65
2:A4:674:ASP:N	3:A6:97:ASP:CG	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:767:ILE:HB	3:A6:476:PHE:N	1.96	0.65
2:A4:824:ASN:ND2	3:A6:167:TRP:CZ3	2.65	0.65
2:A4:857:LYS:CE	3:A6:129:ASN:HB2	2.26	0.65
3:A6:842:ARG:CG	8:F2:776:HIS:HE1	2.08	0.65
3:A6:1411:ARG:CZ	26:X4:685:GLU:O	2.45	0.65
9:G2:257:THR:HG22	17:O4:258:GLU:N	2.06	0.65
11:I1:913:ALA:HB3	15:M1:584:GLN:CD	2.16	0.65
11:I1:983:LEU:CD1	15:M1:621:ARG:NH2	2.46	0.65
11:I1:987:GLY:HA3	15:M1:611:LYS:HG2	0.71	0.65
11:I1:1038:ILE:HD12	20:R1:167:GLN:OE1	1.95	0.65
11:I1:1051:LYS:CE	17:O1:289:ASP:N	2.10	0.65
11:I1:1433:THR:CG2	12:J1:270:ARG:HD3	2.26	0.65
11:I2:911:PRO:CA	15:M3:584:GLN:NE2	2.57	0.65
11:I2:954:GLU:H	16:N3:403:VAL:HG22	1.62	0.65
11:I2:979:ALA:HB2	20:R3:167:GLN:NE2	2.11	0.65
11:I2:1109:LEU:HB2	17:O3:290:TYR:HE2	0.51	0.65
11:I2:1421:ARG:NH2	11:I2:1482:ASP:OD1	2.29	0.65
11:I2:1584:LEU:HD21	12:J2:275:PHE:CD1	2.30	0.65
17:O4:110:LEU:HD22	18:P4:321:ILE:CB	2.17	0.65
27:Y3:313:ASN:HB2	27:Y3:318:ILE:H	1.61	0.65
2:A2:868:GLN:NE2	6:D1:608:ILE:CA	2.43	0.65
2:A2:969:ASP:CA	6:D1:196:ILE:N	2.33	0.65
1:A3:1226:LEU:HB3	3:A6:551:GLN:H	1.59	0.65
1:A3:1241:ARG:HB3	3:A6:586:CYS:SG	2.36	0.65
1:A3:1396:GLY:O	3:A6:172:PRO:HG2	1.97	0.65
2:A4:635:ARG:HH22	3:A6:601:PHE:N	1.93	0.65
2:A4:682:ARG:NE	3:A6:105:GLY:O	2.30	0.65
2:A4:701:ILE:HD11	3:A6:479:VAL:O	1.97	0.65
2:A4:720:LEU:O	3:A6:496:THR:N	2.29	0.65
2:A4:763:LEU:CD1	3:A6:470:ARG:CG	2.75	0.65
2:A4:764:MET:CG	3:A6:473:PRO:O	2.41	0.65
2:A4:854:VAL:CB	3:A6:171:HIS:CG	2.72	0.65
2:A4:1154:PHE:HB3	5:C4:733:LEU:HD13	1.77	0.65
3:A5:773:PHE:HZ	3:A5:818:LEU:HD12	1.61	0.65
3:A5:1409:MSE:HB2	28:Z2:917:ASP:CB	2.26	0.65
11:I1:843:GLU:CG	15:M1:587:GLU:OE1	2.42	0.65
11:I1:928:LEU:HD11	20:R1:155:GLU:CB	2.26	0.65
11:I1:1034:ASP:HB3	16:N1:444:SER:HB2	1.79	0.65
11:I2:841:PHE:CA	15:M3:591:ASP:HB3	2.26	0.65
21:S1:251:MET:HG3	21:S1:272:LEU:HB2	1.78	0.65
21:S3:313:ASN:O	21:S3:317:LYS:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W1:180:ASN:HA	25:W1:207:VAL:HG23	1.79	0.65
25:W3:180:ASN:HA	25:W3:207:VAL:HG23	1.79	0.65
1:A1:1226:LEU:CG	2:A2:725:GLU:OE1	2.37	0.65
2:A2:874:VAL:CB	6:D1:611:LYS:HG2	2.27	0.65
1:A3:1048:ARG:NE	6:D3:790:ARG:HH22	1.90	0.65
1:A3:1113:GLU:HG2	3:A6:590:SER:H	1.62	0.65
1:A3:1257:VAL:HA	3:A6:719:ARG:HH12	1.60	0.65
1:A3:1332:ARG:CD	6:D3:636:ASP:CB	2.72	0.65
2:A4:715:GLU:CG	3:A6:515:THR:C	2.65	0.65
2:A4:816:LYS:CG	3:A6:157:TRP:CD1	2.78	0.65
2:A4:870:HIS:CE1	6:D3:566:PHE:CD1	2.76	0.65
2:A4:878:LEU:HD12	6:D3:567:LEU:HB3	1.78	0.65
3:A5:1392:ARG:NH1	28:Z2:863:ASP:O	2.29	0.65
3:A6:442:ARG:NH1	6:D3:695:LEU:HD12	2.11	0.65
3:A6:842:ARG:HE	8:F2:776:HIS:CE1	2.11	0.65
11:I1:879:VAL:CA	17:O1:245:GLU:O	2.37	0.65
11:I1:951:LYS:CA	16:N1:400:LEU:O	2.44	0.65
11:I1:957:SER:HG	16:N1:399:HIS:CD2	2.14	0.65
11:I2:828:VAL:HG12	17:O3:237:PRO:HD2	1.78	0.65
11:I2:877:ILE:HD13	17:O3:253:LEU:O	1.97	0.65
11:I2:928:LEU:HD21	20:R3:155:GLU:HB2	1.77	0.65
11:I2:980:ILE:HG21	15:M3:622:VAL:HG23	1.78	0.65
11:I3:1271:GLU:CD	26:X1:504:ILE:HD12	2.17	0.65
23:U3:20:LYS:O	23:U3:24:ILE:HG12	1.97	0.65
24:V2:152:ALA:HB1	24:V2:160:LEU:HD11	1.78	0.65
27:Y1:313:ASN:HB2	27:Y1:318:ILE:H	1.61	0.65
28:Z3:63:SER:OG	28:Z3:112:GLU:OE1	2.15	0.65
1:A1:870:HIS:CB	6:D3:280:GLN:CA	2.61	0.65
1:A1:1204:TRP:HH2	2:A2:757:LEU:CD2	1.88	0.65
2:A2:943:ASP:OD2	3:A5:589:ALA:HB2	1.97	0.65
2:A2:986:THR:HG22	6:D1:504:LYS:CE	2.25	0.65
2:A2:1149:THR:C	3:A5:173:ASN:HB3	2.16	0.65
2:A2:1160:GLN:HA	3:A5:178:GLY:HA3	1.78	0.65
1:A3:1265:ASN:N	3:A6:716:ASN:ND2	2.44	0.65
2:A4:93:ASP:CG	3:A6:361:ASP:HB2	2.17	0.65
2:A4:496:THR:OG1	3:A6:366:ALA:HB1	1.97	0.65
2:A4:607:ARG:HG2	3:A6:505:ALA:CB	2.26	0.65
2:A4:723:PHE:CD2	3:A6:496:THR:C	2.70	0.65
2:A4:827:ILE:CA	3:A6:132:ASP:CA	2.71	0.65
2:A4:859:GLN:HB3	3:A6:134:VAL:HB	1.77	0.65
3:A5:1004:HIS:HE1	11:I5:62:GLU:H	1.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:919:ALA:CA	15:M1:592:LEU:HD22	2.27	0.65
11:I1:950:LEU:HB3	16:N1:406:HIS:CB	2.27	0.65
11:I1:1034:ASP:HB3	16:N1:444:SER:CB	2.27	0.65
11:I2:1039:ALA:C	20:R3:170:LEU:HD11	2.17	0.65
11:I3:1277:LEU:N	26:X1:522:MET:CB	2.45	0.65
11:I4:1426:SER:OG	12:J4:263:MET:SD	2.45	0.65
23:U3:242:LEU:HD22	24:V3:305:VAL:HG22	1.78	0.65
28:Z3:55:GLU:HB2	28:Z3:74:SER:HA	1.78	0.65
2:A2:1154:PHE:HB3	5:C2:733:LEU:HD13	1.77	0.65
1:A3:1236:GLN:HA	3:A6:581:LYS:CG	2.27	0.65
1:A3:1271:ILE:H	3:A6:554:GLN:N	1.95	0.65
1:A3:1306:PRO:CB	3:A6:715:GLU:CG	2.74	0.65
2:A4:682:ARG:HA	3:A6:432:VAL:CA	2.05	0.65
2:A4:723:PHE:N	3:A6:495:ASP:HA	2.10	0.65
2:A4:757:LEU:O	3:A6:544:PHE:CD2	2.49	0.65
2:A4:876:ARG:HG3	6:D3:557:GLU:O	1.95	0.65
2:A4:951:GLU:CD	3:A6:234:LEU:N	2.50	0.65
3:A5:153:ILE:CG1	5:C2:739:MET:HE3	2.24	0.65
3:A5:1151:THR:HG23	5:C5:734:VAL:O	1.97	0.65
3:A5:1367:THR:C	28:Z2:825:TYR:O	2.35	0.65
3:A5:1376:LEU:HD13	28:Z2:807:ILE:O	1.96	0.65
3:A5:1395:LYS:HG2	28:Z2:873:LEU:H	0.67	0.65
3:A6:1365:VAL:CA	28:Z4:878:HIS:CA	2.59	0.65
6:D7:527:ASN:O	11:I3:181:GLN:CD	2.35	0.65
11:I1:1029:LEU:CB	20:R1:174:ARG:CB	2.47	0.65
11:I1:1668:HIS:HB2	11:I2:1668:HIS:CA	2.26	0.65
11:I2:899:LEU:HD11	17:O3:234:LEU:N	2.10	0.65
11:I2:1025:LEU:CD2	20:R3:170:LEU:HD12	2.27	0.65
11:I2:1029:LEU:HB3	20:R3:174:ARG:CD	2.27	0.65
11:I2:1039:ALA:O	20:R3:170:LEU:HD11	1.97	0.65
11:I2:1051:LYS:NZ	17:O3:285:LYS:NZ	2.44	0.65
11:I3:1277:LEU:CB	26:X1:522:MET:HB2	2.26	0.65
17:O3:151:LEU:CD2	18:P3:325:ILE:HG12	0.92	0.65
23:U2:20:LYS:O	23:U2:24:ILE:HG12	1.97	0.65
24:V2:209:PRO:HB3	24:V2:532:LYS:HB2	1.78	0.65
1:A1:1221:ILE:HG22	2:A2:645:PHE:H	0.52	0.65
2:A2:1151:THR:C	3:A5:175:GLU:N	2.46	0.65
1:A3:1201:ARG:NH2	3:A6:546:ASN:O	2.07	0.65
1:A3:1226:LEU:CD2	3:A6:549:ALA:N	2.60	0.65
1:A3:1236:GLN:HE22	3:A6:573:ARG:NE	1.93	0.65
1:A3:1310:ARG:NH1	3:A6:708:SER:HB3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:75:LEU:CG	3:A6:321:ASP:OD1	2.44	0.65
2:A4:611:ILE:CB	3:A6:508:LEU:CD1	2.57	0.65
2:A4:763:LEU:CG	3:A6:470:ARG:CG	2.53	0.65
2:A4:796:GLN:HB2	3:A6:249:SER:HB3	1.77	0.65
2:A4:818:LEU:HD21	3:A6:146:LYS:HZ1	1.62	0.65
3:A6:132:ASP:HB3	6:D3:606:LYS:N	2.08	0.65
3:A6:486:GLN:HB3	6:D3:675:ARG:CG	2.24	0.65
8:F1:1202:TYR:HA	17:O2:252:VAL:HG13	1.79	0.65
9:G1:266:ASP:O	16:N2:414:ALA:C	2.36	0.65
11:I1:942:HIS:N	17:O1:260:LEU:CA	2.59	0.65
11:I1:1048:GLU:O	15:M1:626:HIS:CE1	2.49	0.65
11:I1:1107:SER:O	16:N1:439:ARG:HG3	1.97	0.65
11:I2:936:LYS:HG2	15:M3:609:GLY:C	2.18	0.65
11:I2:1051:LYS:HE3	17:O3:288:GLU:HB2	1.79	0.65
11:I4:816:ASP:OD2	26:X3:497:ARG:NH1	2.24	0.65
11:I5:1277:LEU:HD23	26:X2:517:ASP:HB2	1.79	0.65
23:U4:20:LYS:O	23:U4:24:ILE:HG12	1.97	0.65
24:V4:152:ALA:HB1	24:V4:160:LEU:HD11	1.78	0.65
27:Y4:313:ASN:HB2	27:Y4:318:ILE:H	1.61	0.65
28:Z4:55:GLU:HB2	28:Z4:74:SER:HA	1.78	0.65
2:A2:872:ALA:CB	6:D1:565:MET:HE3	2.24	0.65
2:A2:983:LEU:HG	6:D1:554:LEU:HD23	1.79	0.65
2:A2:985:ALA:CA	6:D1:498:GLU:HA	2.27	0.65
1:A3:1243:SER:H	3:A6:585:ASN:HA	1.62	0.65
1:A3:1394:VAL:CG2	3:A6:227:SER:HA	2.25	0.65
2:A4:546:ASN:HD22	3:A6:365:MET:HG2	1.61	0.65
2:A4:682:ARG:CG	3:A6:106:ALA:HA	2.27	0.65
2:A4:691:LYS:HD3	3:A6:316:ARG:HD3	1.59	0.65
2:A4:718:GLU:O	3:A6:513:GLN:CB	2.41	0.65
2:A4:827:ILE:HB	3:A6:130:ILE:HG22	1.79	0.65
2:A4:859:GLN:N	6:D3:606:LYS:HE2	2.04	0.65
3:A5:232:LEU:HD23	5:C2:738:ASP:H	1.60	0.65
8:F1:1093:LEU:CD1	17:O2:240:GLY:C	2.49	0.65
8:F2:1091:SER:O	17:O4:244:GLU:OE1	2.15	0.65
11:I1:797:LEU:HD12	17:O1:245:GLU:HA	1.77	0.65
11:I1:1113:LEU:CB	16:N1:435:ALA:HB2	2.25	0.65
11:I1:1673:VAL:H	11:I2:1611:PHE:CA	2.05	0.65
11:I2:877:ILE:HG12	17:O3:254:ARG:CB	1.13	0.65
11:I3:1277:LEU:HD12	26:X1:522:MET:CG	2.19	0.65
11:I5:1279:THR:CB	26:X2:520:GLU:C	2.66	0.65
21:S2:251:MET:HG3	21:S2:272:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:242:LEU:HD22	24:V1:305:VAL:HG22	1.78	0.65
27:Y3:221:ALA:HB2	27:Y3:312:TRP:CE2	2.31	0.65
1:A1:1200:ARG:HH21	2:A2:642:ARG:NH2	1.94	0.64
2:A2:874:VAL:HG22	6:D1:611:LYS:HZ3	1.60	0.64
1:A3:1182:ILE:CG2	3:A6:639:ASN:HD22	2.10	0.64
1:A3:1194:HIS:ND1	3:A6:552:PHE:CZ	2.65	0.64
2:A4:760:LEU:HD13	3:A6:388:GLU:HG2	0.65	0.64
2:A4:760:LEU:HD21	3:A6:98:LEU:H	1.61	0.64
2:A4:782:VAL:HG23	6:D3:677:GLN:CA	2.24	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:HB2	1.74	0.64
2:A4:886:PHE:CE1	3:A6:176:LEU:CB	2.81	0.64
2:A4:892:SER:HA	3:A6:232:LEU:CA	2.27	0.64
2:A4:901:ALA:CB	3:A6:176:LEU:HB2	2.25	0.64
2:A4:972:GLY:N	6:D3:204:ASN:OD1	2.25	0.64
2:A4:980:ARG:HD2	6:D3:526:LEU:N	2.12	0.64
2:A4:982:THR:HG21	6:D3:495:VAL:N	2.03	0.64
3:A5:1026:PRO:HB3	11:I5:73:TYR:HE1	1.57	0.64
3:A5:1395:LYS:CA	28:Z2:874:ASN:N	2.59	0.64
3:A6:445:THR:O	6:D3:730:ARG:HD3	1.96	0.64
3:A6:481:ARG:HG3	6:D3:675:ARG:O	1.97	0.64
3:A6:1364:GLN:O	28:Z4:874:ASN:O	2.16	0.64
6:D3:450:GLU:O	6:D3:454:THR:HG22	1.97	0.64
9:G1:258:LYS:NZ	16:N2:408:MET:CE	2.60	0.64
11:I1:875:ARG:O	17:O1:248:SER:HA	1.96	0.64
11:I1:877:ILE:CG1	17:O1:251:ILE:C	2.44	0.64
11:I1:926:SER:H	15:M1:593:ALA:HB1	1.61	0.64
11:I1:957:SER:HA	20:R1:166:LEU:CD1	2.27	0.64
11:I1:982:GLN:C	15:M1:621:ARG:HH22	1.95	0.64
11:I2:895:ARG:CD	17:O3:234:LEU:HD12	2.25	0.64
11:I2:895:ARG:NE	16:N3:386:MET:SD	2.52	0.64
11:I2:994:ALA:HB3	17:O3:268:GLY:O	1.97	0.64
11:I2:1043:LEU:N	15:M3:616:LEU:HD13	2.11	0.64
11:I4:1276:GLN:H	26:X3:521:TRP:N	1.95	0.64
17:O4:109:PRO:HD2	18:P4:318:PRO:CB	2.28	0.64
25:W3:227:GLN:HA	25:W3:256:VAL:HG13	1.80	0.64
27:Y4:221:ALA:HB2	27:Y4:312:TRP:CE2	2.31	0.64
28:Z1:55:GLU:HB2	28:Z1:74:SER:HA	1.78	0.64
1:A1:773:PHE:HZ	1:A1:818:LEU:HD12	1.62	0.64
1:A3:1099:GLN:HG3	11:I2:1414:CYS:SG	2.38	0.64
1:A3:1186:TRP:HH2	3:A6:583:LEU:HB2	1.60	0.64
1:A3:1229:VAL:CB	3:A6:574:ARG:HB3	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1236:GLN:HG2	3:A6:581:LYS:CG	2.28	0.64
1:A3:1332:ARG:NH2	6:D3:682:ASN:H	1.94	0.64
2:A4:546:ASN:HD22	3:A6:365:MET:HE3	1.57	0.64
2:A4:635:ARG:NH2	3:A6:600:LYS:O	2.29	0.64
2:A4:779:ASP:HB2	3:A6:487:ASP:CB	2.20	0.64
2:A4:803:GLU:OE2	3:A6:381:LEU:HB3	1.84	0.64
2:A4:828:ALA:HB2	3:A6:134:VAL:O	1.98	0.64
2:A4:875:LEU:HD12	6:D3:567:LEU:HG	1.78	0.64
3:A5:1392:ARG:CD	28:Z2:866:GLU:C	2.65	0.64
6:D1:450:GLU:O	6:D1:454:THR:HG22	1.97	0.64
8:F1:1136:GLN:O	17:O2:248:SER:OG	2.16	0.64
9:G1:256:GLN:HB2	16:N2:403:VAL:CG1	2.25	0.64
11:I1:1047:CYS:O	15:M1:619:ILE:HA	1.97	0.64
11:I1:1605:LEU:CD1	11:I2:1669:ARG:CD	2.43	0.64
11:I2:931:VAL:CA	15:M3:600:ASN:O	2.45	0.64
11:I3:1274:HIS:CD2	26:X1:534:ILE:HB	2.33	0.64
21:S1:950:HIS:ND1	21:S1:978:ALA:HB2	2.13	0.64
25:W4:180:ASN:HA	25:W4:207:VAL:HG23	1.79	0.64
1:A1:1224:PRO:CD	2:A2:731:ILE:HG12	2.10	0.64
2:A2:908:LEU:CD2	6:D1:601:PHE:C	2.61	0.64
2:A2:1160:GLN:H	3:A5:176:LEU:CB	2.09	0.64
1:A3:835:THR:HG23	6:D1:302:PRO:HG3	1.79	0.64
1:A3:1192:GLN:HA	3:A6:611:ILE:HG22	1.74	0.64
1:A3:1236:GLN:CA	3:A6:118:SER:HB2	2.27	0.64
1:A3:1241:ARG:CZ	3:A6:593:ALA:C	2.66	0.64
2:A4:574:ARG:NH2	3:A6:456:ASP:H	1.95	0.64
2:A4:642:ARG:C	3:A6:501:VAL:CB	2.64	0.64
2:A4:711:VAL:HG12	3:A6:516:TRP:CD1	2.00	0.64
2:A4:762:LYS:O	3:A6:471:PHE:CA	2.21	0.64
2:A4:779:ASP:OD1	3:A6:486:GLN:HG3	1.96	0.64
2:A4:801:THR:OG1	3:A6:319:TYR:CE1	2.51	0.64
2:A4:913:GLY:O	4:B6:342:ARG:NH1	2.30	0.64
3:A5:186:ILE:CG1	5:C2:744:PHE:O	2.46	0.64
6:D5:450:GLU:O	6:D5:454:THR:HG22	1.97	0.64
8:F2:50:LEU:O	8:F2:56:HIS:NE2	2.30	0.64
8:F2:1049:GLN:HE22	17:O4:237:PRO:CG	2.09	0.64
11:I1:873:ILE:HG22	17:O1:254:ARG:C	2.17	0.64
11:I1:925:LEU:CA	15:M1:596:ILE:HB	2.27	0.64
11:I1:928:LEU:CG	20:R1:155:GLU:HB2	2.28	0.64
11:I2:976:ARG:NH2	20:R3:143:PHE:HA	2.13	0.64
11:I2:1043:LEU:CG	16:N3:430:ARG:O	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:640:ILE:O	11:I4:645:ARG:NH1	2.31	0.64
11:I4:1270:LYS:CD	26:X3:527:VAL:HB	2.21	0.64
22:T4:672:ILE:HG13	22:T4:711:VAL:HG22	1.80	0.64
23:U4:8:GLN:C	23:U4:10:GLU:H	1.99	0.64
1:A1:1224:PRO:HG3	2:A2:731:ILE:CB	2.26	0.64
2:A2:866:SER:HB2	6:D1:602:THR:O	1.89	0.64
2:A2:969:ASP:N	6:D1:196:ILE:CA	2.57	0.64
2:A2:980:ARG:NE	6:D1:526:LEU:H	1.95	0.64
1:A3:1201:ARG:HA	2:A4:734:LEU:HB2	1.79	0.64
1:A3:1221:ILE:CD1	2:A4:642:ARG:HA	2.27	0.64
1:A3:1248:ILE:HD12	3:A6:640:LEU:HD12	1.79	0.64
1:A3:1274:ASP:OD1	3:A6:558:GLU:CD	2.35	0.64
1:A3:1282:PHE:CE1	3:A6:623:SER:HA	2.32	0.64
1:A3:1321:MET:HE2	3:A6:126:ARG:NH1	2.11	0.64
2:A4:540:GLN:O	3:A6:360:ARG:O	2.16	0.64
2:A4:757:LEU:HD11	3:A6:543:GLY:H	1.58	0.64
2:A4:857:LYS:HZ3	3:A6:129:ASN:HD22	0.69	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:HG2	1.78	0.64
2:A4:951:GLU:CA	4:B6:347:LEU:HG	2.27	0.64
2:A4:975:GLU:H	6:D3:499:LEU:CD1	1.98	0.64
3:A5:235:TYR:CE2	5:C2:738:ASP:OD1	2.51	0.64
3:A5:235:TYR:CD2	5:C2:738:ASP:OD1	2.51	0.64
3:A6:1151:THR:HG23	5:C6:734:VAL:O	1.97	0.64
11:I1:834:SER:H	17:O1:237:PRO:CB	2.00	0.64
11:I1:884:LEU:CD2	17:O1:246:LEU:CD1	2.52	0.64
11:I2:880:MET:N	17:O3:251:ILE:N	2.45	0.64
11:I2:896:PRO:C	17:O3:232:LYS:C	2.54	0.64
11:I2:898:VAL:CG1	17:O3:235:ASN:HB3	2.23	0.64
11:I2:949:CYS:CB	15:M3:606:LEU:HD22	2.24	0.64
11:I2:952:LEU:O	16:N3:403:VAL:HG21	1.96	0.64
11:I2:992:ILE:HG22	15:M3:607:SER:O	1.95	0.64
11:I2:1118:LEU:HD11	16:N3:432:TYR:CD2	2.33	0.64
11:I3:1277:LEU:CA	26:X1:522:MET:HB2	2.27	0.64
11:I5:1297:LEU:O	11:I5:1301:ASN:ND2	2.31	0.64
21:S2:316:LEU:HA	21:S2:319:ASN:HD22	1.62	0.64
22:T2:672:ILE:HG13	22:T2:711:VAL:HG22	1.79	0.64
22:T3:672:ILE:HG13	22:T3:711:VAL:HG22	1.80	0.64
2:A2:968:SER:CA	6:D1:202:GLN:CA	2.71	0.64
2:A2:1142:PHE:CE1	3:A5:567:VAL:N	2.64	0.64
2:A2:1151:THR:O	3:A5:175:GLU:CA	2.45	0.64
1:A3:1192:GLN:NE2	3:A6:611:ILE:HA	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:HB3	2:A4:731:ILE:HD13	0.70	0.64
1:A3:1231:VAL:N	3:A6:575:LEU:C	2.46	0.64
1:A3:1332:ARG:HH22	6:D3:682:ASN:N	1.94	0.64
2:A4:607:ARG:O	3:A6:505:ALA:O	2.15	0.64
2:A4:813:GLU:OE2	3:A6:191:LEU:O	2.15	0.64
2:A4:858:ALA:H	3:A6:174:PRO:HD2	1.61	0.64
2:A4:859:GLN:HG3	3:A6:131:PRO:CB	2.27	0.64
2:A4:1155:ASN:OD1	5:C4:734:VAL:O	2.15	0.64
3:A5:1395:LYS:CE	28:Z2:872:TYR:H	2.10	0.64
3:A6:442:ARG:HD2	6:D3:692:LEU:H	1.61	0.64
3:A6:484:PRO:CB	6:D3:672:GLU:HG2	2.22	0.64
3:A6:1151:THR:OG1	5:C6:734:VAL:N	2.29	0.64
3:A6:1399:ARG:NH2	28:Z4:968:ARG:CA	2.53	0.64
8:F1:1137:GLN:HB3	17:O2:244:GLU:O	1.90	0.64
11:I1:934:LEU:CA	15:M1:602:MET:SD	2.81	0.64
11:I1:955:LYS:NZ	17:O1:249:ARG:NH2	2.45	0.64
11:I1:1051:LYS:HA	17:O1:286:ILE:HG22	1.80	0.64
11:I1:1602:PHE:HB2	11:I2:1738:TYR:OH	1.96	0.64
11:I2:936:LYS:HE3	15:M3:612:PRO:HG2	1.79	0.64
11:I2:959:SER:N	20:R3:166:LEU:HD13	2.02	0.64
11:I3:1277:LEU:HD22	26:X1:519:ILE:N	2.12	0.64
11:I4:1275:SER:HB2	26:X3:521:TRP:CD1	2.33	0.64
21:S1:1097:LYS:NZ	21:S1:1101:PHE:HE1	1.96	0.64
27:Y2:85:GLU:HB2	27:Y2:101:LEU:HD11	1.80	0.64
27:Y2:221:ALA:HB2	27:Y2:312:TRP:CE2	2.31	0.64
2:A2:1130:ARG:O	3:A5:160:ILE:HG22	1.96	0.64
1:A3:1182:ILE:CB	3:A6:639:ASN:HD22	2.10	0.64
1:A3:1194:HIS:O	2:A4:729:SER:OG	2.10	0.64
1:A3:1268:ASP:OD2	3:A6:553:ASP:O	2.15	0.64
1:A3:1271:ILE:N	3:A6:553:ASP:CB	2.60	0.64
2:A4:75:LEU:CD1	3:A6:321:ASP:O	2.34	0.64
2:A4:79:ALA:HB1	3:A6:321:ASP:CG	2.18	0.64
2:A4:757:LEU:C	3:A6:544:PHE:HD2	1.96	0.64
2:A4:864:ARG:CG	6:D3:609:ILE:H	2.11	0.64
3:A5:1151:THR:OG1	5:C5:733:LEU:HA	1.97	0.64
3:A5:1415:PHE:N	28:Z2:960:CYS:CA	2.59	0.64
3:A6:773:PHE:HZ	3:A6:818:LEU:HD12	1.62	0.64
3:A6:1151:THR:HA	5:C6:733:LEU:HD13	1.72	0.64
3:A6:1395:LYS:O	28:Z4:920:SER:N	2.31	0.64
6:D7:483:GLU:HG3	11:I3:191:GLU:OE1	1.98	0.64
11:I1:881:ILE:N	17:O1:250:LEU:N	2.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1020:ALA:HB3	16:N1:406:HIS:O	1.97	0.64
11:I1:1063:GLN:O	16:N1:428:ASP:OD2	2.13	0.64
11:I2:877:ILE:HD11	17:O3:254:ARG:CG	2.22	0.64
11:I2:924:ILE:CG1	15:M3:597:LYS:H	2.11	0.64
11:I2:945:LEU:HB3	17:O3:260:LEU:N	1.87	0.64
11:I2:950:LEU:HD22	16:N3:410:MET:HE1	1.76	0.64
11:I2:981:VAL:CB	20:R3:147:LEU:HD23	1.94	0.64
11:I2:1297:LEU:O	11:I2:1301:ASN:ND2	2.31	0.64
21:S3:251:MET:HG3	21:S3:272:LEU:HB2	1.78	0.64
25:W2:227:GLN:HA	25:W2:256:VAL:HG13	1.80	0.64
27:Y2:313:ASN:HB2	27:Y2:318:ILE:H	1.61	0.64
2:A2:983:LEU:N	6:D1:528:PHE:CZ	2.65	0.64
1:A3:1083:SER:N	6:D3:798:MET:HE2	1.97	0.64
1:A3:1237:LEU:C	3:A6:597:GLU:HG2	2.18	0.64
2:A4:672:ARG:CA	3:A6:508:LEU:HD11	2.18	0.64
2:A4:720:LEU:HB2	3:A6:512:GLU:CB	2.27	0.64
2:A4:721:ARG:CG	3:A6:494:PRO:HD2	2.23	0.64
2:A4:735:ALA:C	3:A6:92:ASP:HB3	2.17	0.64
2:A4:767:ILE:N	3:A6:470:ARG:C	2.51	0.64
2:A4:822:ILE:HG21	3:A6:526:ILE:HD11	1.48	0.64
3:A5:162:SER:N	5:C2:744:PHE:HB3	2.12	0.64
3:A5:220:VAL:CG1	5:C2:739:MET:N	2.58	0.64
3:A5:1054:SER:O	11:I5:37:GLU:HG2	1.98	0.64
6:D2:450:GLU:O	6:D2:454:THR:HG22	1.97	0.64
9:G2:255:LEU:HA	17:O4:262:ASP:OD1	1.95	0.64
11:I1:884:LEU:HD22	16:N1:396:ILE:CG1	2.23	0.64
11:I1:898:VAL:HG21	17:O1:236:ASP:HA	1.80	0.64
11:I1:920:PHE:H	16:N1:393:ILE:HG13	1.61	0.64
11:I1:957:SER:C	20:R1:168:LEU:CD2	2.66	0.64
11:I1:1052:LEU:H	17:O1:286:ILE:HB	1.63	0.64
11:I1:1677:LYS:NZ	11:I2:1543:LEU:HD13	2.13	0.64
11:I2:886:LEU:CB	17:O3:242:ARG:HA	2.28	0.64
11:I2:952:LEU:CD2	17:O3:250:LEU:HD11	2.27	0.64
11:I2:958:THR:N	16:N3:399:HIS:NE2	2.43	0.64
11:I2:965:ALA:HB3	20:R3:164:PRO:CA	2.22	0.64
11:I2:1016:ARG:O	16:N3:408:MET:C	2.36	0.64
11:I2:1031:ALA:O	20:R3:173:LEU:HA	1.96	0.64
11:I2:1546:TRP:HB3	12:J1:300:ILE:HD11	1.76	0.64
17:O4:107:THR:CG2	18:P4:321:ILE:HD11	2.24	0.64
21:S1:316:LEU:HA	21:S1:319:ASN:HD22	1.62	0.64
21:S2:950:HIS:ND1	21:S2:978:ALA:HB2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1097:LYS:NZ	21:S2:1101:PHE:HE1	1.96	0.64
21:S4:1097:LYS:NZ	21:S4:1101:PHE:HE1	1.96	0.64
25:W2:180:ASN:HA	25:W2:207:VAL:HG23	1.79	0.64
26:X4:119:GLY:O	26:X4:122:ARG:HG2	1.97	0.64
28:Z1:63:SER:OG	28:Z1:112:GLU:OE1	2.15	0.64
1:A1:1197:ALA:C	2:A2:728:LYS:HG3	2.18	0.64
1:A1:1332:ARG:NH2	6:D1:682:ASN:N	2.46	0.64
1:A3:1236:GLN:OE1	3:A6:578:ILE:HA	1.95	0.64
1:A3:1273:ALA:H	3:A6:554:GLN:C	1.93	0.64
2:A4:598:VAL:CG2	3:A6:504:PRO:CD	2.71	0.64
2:A4:635:ARG:CZ	3:A6:603:ASN:CB	2.76	0.64
2:A4:669:LEU:CB	3:A6:542:LEU:HG	2.27	0.64
2:A4:679:TYR:H	3:A6:101:TYR:C	2.00	0.64
2:A4:712:THR:O	3:A6:490:PHE:CE2	2.47	0.64
2:A4:799:ASP:N	3:A6:315:LEU:O	2.27	0.64
2:A4:891:GLY:O	3:A6:232:LEU:CA	2.46	0.64
2:A4:1019:ARG:NH1	6:D3:239:THR:OG1	2.31	0.64
3:A5:1368:GLN:N	28:Z2:841:ALA:O	2.31	0.64
3:A6:1390:LEU:O	28:Z4:912:ASP:C	2.35	0.64
6:D6:450:GLU:O	6:D6:454:THR:HG22	1.97	0.64
6:D7:450:GLU:O	6:D7:454:THR:HG22	1.97	0.64
8:F1:1266:MET:H	17:O2:262:ASP:CB	2.09	0.64
11:I1:833:PHE:CD2	17:O1:241:SER:CB	2.56	0.64
11:I1:950:LEU:CD1	16:N1:410:MET:HB3	2.27	0.64
11:I1:959:SER:CB	16:N1:395:GLU:CB	2.74	0.64
11:I1:1049:LEU:HB3	17:O1:291:ASP:CB	2.26	0.64
11:I2:797:LEU:CD2	17:O3:245:GLU:N	2.61	0.64
11:I2:950:LEU:CD1	16:N3:410:MET:HE3	2.28	0.64
21:S1:313:ASN:O	21:S1:317:LYS:HB2	1.96	0.64
23:U3:8:GLN:C	23:U3:10:GLU:H	1.99	0.64
1:A1:1225:PRO:HD3	2:A2:723:PHE:O	1.98	0.64
2:A2:872:ALA:CB	6:D1:565:MET:HE1	2.28	0.64
2:A2:969:ASP:O	6:D1:192:TYR:CE1	2.51	0.64
1:A3:1086:LYS:HD3	6:D3:798:MET:O	1.97	0.64
1:A3:1088:ASN:HA	6:D3:808:ASN:ND2	2.13	0.64
1:A3:1191:ASN:CG	3:A6:619:CYS:SG	2.76	0.64
1:A3:1265:ASN:HA	3:A6:683:LEU:CD1	1.90	0.64
2:A4:172:PRO:HB2	6:D3:781:ARG:HG2	1.79	0.64
2:A4:642:ARG:HG3	3:A6:501:VAL:CG2	2.23	0.64
2:A4:692:VAL:HG13	3:A6:467:LEU:N	2.12	0.64
2:A4:760:LEU:HD12	3:A6:388:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:778:PHE:N	3:A6:481:ARG:CZ	2.43	0.64
2:A4:788:ARG:C	3:A6:145:THR:O	2.33	0.64
2:A4:944:SER:CB	3:A6:200:VAL:CB	2.67	0.64
2:A4:944:SER:OG	3:A6:200:VAL:CG2	2.45	0.64
3:A5:999:SER:HB3	11:I5:64:LYS:CG	2.27	0.64
3:A5:1000:ASP:N	11:I5:62:GLU:HB3	2.13	0.64
3:A5:1378:GLY:C	28:Z2:812:LEU:CA	2.51	0.64
3:A6:1151:THR:OG1	5:C6:733:LEU:HA	1.96	0.64
11:I1:880:MET:HB3	17:O1:250:LEU:CB	2.04	0.64
11:I1:947:LEU:CD1	16:N1:411:GLN:CB	2.76	0.64
11:I1:1040:HIS:HD2	16:N1:437:VAL:HG21	1.43	0.64
11:I1:1114:VAL:CG2	16:N1:435:ALA:CB	2.47	0.64
11:I2:887:GLN:CD	16:N3:393:ILE:CG1	2.63	0.64
11:I2:949:CYS:CB	15:M3:606:LEU:HB2	2.22	0.64
11:I2:961:ARG:HH21	16:N3:388:LYS:CA	2.10	0.64
11:I3:1270:LYS:CG	26:X1:527:VAL:O	2.34	0.64
21:S1:671:ALA:CA	21:S2:1145:LYS:CB	2.76	0.64
22:T1:885:ARG:HH11	22:T1:885:ARG:CG	2.11	0.64
1:A1:1220:PRO:C	2:A2:645:PHE:CD1	2.70	0.64
1:A1:1225:PRO:C	2:A2:728:LYS:HB3	2.18	0.64
2:A2:865:ALA:C	6:D1:605:THR:HA	2.16	0.64
2:A2:867:GLU:CB	6:D1:609:ILE:HD11	2.15	0.64
2:A2:973:GLU:CG	6:D1:192:TYR:CE1	2.59	0.64
2:A2:1162:ASN:ND2	3:A5:180:GLU:OE2	2.31	0.64
1:A3:1227:PRO:N	3:A6:551:GLN:CG	2.17	0.64
1:A3:1235:ILE:HA	3:A6:583:LEU:HB2	1.80	0.64
2:A4:89:LEU:HD22	3:A6:429:LEU:CD1	2.27	0.64
2:A4:97:ASP:HB3	3:A6:364:HIS:NE2	2.13	0.64
2:A4:547:GLU:HG3	3:A6:366:ALA:C	2.18	0.64
2:A4:736:PRO:O	3:A6:89:LEU:CD2	2.46	0.64
2:A4:798:LYS:HE2	3:A6:264:GLU:OE1	1.98	0.64
2:A4:879:LEU:CB	6:D3:564:ASN:ND2	2.59	0.64
3:A5:999:SER:CA	11:I5:63:PRO:HD2	2.27	0.64
3:A5:1369:ILE:HD11	28:Z2:832:PHE:H	1.56	0.64
3:A5:1392:ARG:HG3	28:Z2:867:LYS:HA	1.79	0.64
3:A6:442:ARG:HH11	6:D3:695:LEU:HD12	1.62	0.64
3:A6:520:GLU:CD	6:D3:681:ALA:CB	2.53	0.64
8:F1:50:LEU:O	8:F1:56:HIS:NE2	2.30	0.64
8:F1:1205:TRP:CG	17:O2:254:ARG:HD3	2.31	0.64
8:F1:1205:TRP:CE2	17:O2:254:ARG:CD	2.77	0.64
9:G1:256:GLN:CB	16:N2:403:VAL:HG12	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:797:LEU:HD11	17:O1:244:GLU:C	2.18	0.64
11:I1:1042:LEU:CB	20:R1:170:LEU:HD11	2.26	0.64
11:I1:1044:GLY:H	15:M1:616:LEU:CD1	2.10	0.64
11:I1:1063:GLN:C	16:N1:428:ASP:CG	2.50	0.64
11:I1:1668:HIS:C	11:I2:1668:HIS:HB2	2.18	0.64
11:I2:873:ILE:HG21	17:O3:258:GLU:CG	2.20	0.64
11:I2:880:MET:CA	17:O3:247:TRP:CA	2.73	0.64
11:I2:964:SER:O	20:R3:153:GLN:CG	2.46	0.64
11:I2:1061:ASP:HB2	17:O3:278:GLU:N	2.13	0.64
11:I5:1279:THR:CB	26:X2:520:GLU:CA	2.60	0.64
22:T2:671:LYS:HA	22:T2:671:LYS:HE2	1.80	0.64
25:W4:227:GLN:HA	25:W4:256:VAL:HG13	1.79	0.64
28:Z4:63:SER:OG	28:Z4:112:GLU:OE1	2.15	0.64
2:A2:83:GLN:NE2	2:A2:87:GLN:OE1	2.30	0.63
2:A2:868:GLN:HA	6:D1:584:LEU:CD2	2.28	0.63
2:A2:908:LEU:HA	6:D1:601:PHE:C	2.16	0.63
1:A3:1258:VAL:N	3:A6:623:SER:HB2	2.13	0.63
1:A3:1284:ASN:O	3:A6:581:LYS:NZ	2.23	0.63
2:A4:551:GLN:HB2	3:A6:455:LEU:HA	1.80	0.63
2:A4:687:LEU:CD2	3:A6:403:ARG:CG	2.74	0.63
2:A4:776:MET:CG	3:A6:525:THR:HA	2.18	0.63
2:A4:790:ASP:OD2	3:A6:187:THR:N	2.12	0.63
2:A4:895:PRO:CB	4:B6:344:ALA:HB3	2.27	0.63
3:A5:1367:THR:O	28:Z2:825:TYR:CA	2.46	0.63
11:I1:931:VAL:CG2	15:M1:604:ASN:CB	2.67	0.63
11:I1:979:ALA:N	15:M1:621:ARG:HD3	1.91	0.63
11:I1:1041:GLN:N	15:M1:620:VAL:CG2	2.61	0.63
11:I1:1297:LEU:O	11:I1:1301:ASN:ND2	2.31	0.63
11:I1:1669:ARG:NH1	11:I2:1611:PHE:CZ	2.66	0.63
11:I2:874:LEU:C	17:O3:251:ILE:O	2.37	0.63
11:I2:881:ILE:HA	16:N3:400:LEU:CD1	2.14	0.63
11:I2:924:ILE:CG1	15:M3:597:LYS:N	2.45	0.63
11:I2:995:SER:HA	17:O3:267:ALA:C	2.17	0.63
11:I2:1020:ALA:CB	16:N3:409:ALA:N	2.53	0.63
11:I3:1277:LEU:CD2	26:X1:519:ILE:HA	2.09	0.63
17:O4:111:TYR:CZ	18:P4:321:ILE:CD1	2.80	0.63
21:S1:654:LYS:O	21:S2:1153:GLN:O	2.15	0.63
22:T1:672:ILE:HG13	22:T1:711:VAL:HG22	1.80	0.63
23:U4:260:GLU:OE2	24:V4:318:HIS:NE2	2.29	0.63
2:A2:980:ARG:NH2	6:D1:524:ARG:O	2.31	0.63
2:A2:1155:ASN:OD1	5:C2:734:VAL:O	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1056:PHE:CZ	6:D3:807:THR:C	2.63	0.63
1:A3:1186:TRP:C	3:A6:642:ARG:N	2.47	0.63
1:A3:1240:HIS:HE1	3:A6:118:SER:CB	1.67	0.63
1:A3:1242:THR:N	3:A6:586:CYS:HA	2.13	0.63
1:A3:1392:ARG:CA	3:A6:227:SER:OG	2.42	0.63
2:A4:95:TYR:HB3	3:A6:365:MET:HA	1.80	0.63
2:A4:635:ARG:CZ	3:A6:603:ASN:H	2.10	0.63
2:A4:717:VAL:HG23	3:A6:403:ARG:NH2	2.12	0.63
2:A4:718:GLU:CB	3:A6:121:PRO:CG	2.58	0.63
2:A4:720:LEU:HA	3:A6:512:GLU:HA	1.78	0.63
2:A4:724:LEU:HD22	3:A6:95:TYR:CZ	2.07	0.63
2:A4:901:ALA:HB1	3:A6:133:LYS:NZ	2.13	0.63
2:A4:947:LYS:HZ3	3:A6:219:GLY:C	2.01	0.63
8:F1:1137:GLN:N	17:O2:245:GLU:HA	2.13	0.63
11:I1:926:SER:N	15:M1:597:LYS:HG3	2.13	0.63
11:I1:1018:LYS:CE	16:N1:413:VAL:HG13	2.06	0.63
11:I2:890:TYR:HD1	17:O3:241:SER:H	1.46	0.63
11:I2:1021:ILE:HG13	16:N3:410:MET:CE	2.16	0.63
11:I2:1037:THR:HG22	20:R3:173:LEU:HD23	1.78	0.63
11:I2:1054:ILE:CG2	17:O3:278:GLU:H	2.10	0.63
11:I3:640:ILE:O	11:I3:645:ARG:NH1	2.31	0.63
11:I3:1271:GLU:HB2	26:X1:525:ILE:HG23	1.74	0.63
21:S3:950:HIS:ND1	21:S3:978:ALA:HB2	2.13	0.63
21:S4:316:LEU:HA	21:S4:319:ASN:HD22	1.62	0.63
23:U2:260:GLU:OE2	24:V2:318:HIS:NE2	2.29	0.63
25:W1:227:GLN:HA	25:W1:256:VAL:HG13	1.80	0.63
1:A1:1197:ALA:HB1	2:A2:728:LYS:NZ	2.02	0.63
2:A2:864:ARG:O	6:D1:608:ILE:HG13	1.94	0.63
2:A2:872:ALA:HB2	6:D1:569:CYS:SG	2.38	0.63
2:A2:968:SER:N	6:D1:202:GLN:N	2.38	0.63
1:A3:1091:VAL:CG2	6:D3:808:ASN:CB	2.77	0.63
1:A3:1122:LEU:C	3:A6:599:ARG:HH22	2.00	0.63
1:A3:1186:TRP:HA	3:A6:641:ALA:H	1.61	0.63
1:A3:1201:ARG:NH2	2:A4:734:LEU:O	2.03	0.63
1:A3:1201:ARG:H	2:A4:729:SER:C	2.01	0.63
1:A3:1236:GLN:H	3:A6:578:ILE:C	2.00	0.63
1:A3:1241:ARG:HD3	3:A6:597:GLU:CB	2.22	0.63
2:A4:89:LEU:HD12	3:A6:406:LEU:CD1	2.10	0.63
2:A4:551:GLN:O	3:A6:455:LEU:HA	1.98	0.63
2:A4:769:GLU:O	3:A6:528:ILE:CB	2.46	0.63
2:A4:826:ASN:HB3	6:D3:632:ALA:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:866:SER:OG	6:D3:605:THR:HG23	1.98	0.63
2:A4:908:LEU:CG	6:D3:601:PHE:C	2.63	0.63
2:A4:982:THR:HG21	6:D3:494:LEU:C	2.19	0.63
3:A5:159:SER:CB	5:C2:742:ASP:O	2.44	0.63
3:A6:520:GLU:OE1	6:D3:636:ASP:C	2.36	0.63
3:A6:1413:SER:O	28:Z4:994:ILE:CB	2.46	0.63
9:G1:263:MET:CE	17:O2:256:TYR:OH	2.30	0.63
11:I1:640:ILE:O	11:I1:645:ARG:NH1	2.31	0.63
11:I1:934:LEU:O	15:M1:606:LEU:CA	2.44	0.63
11:I1:984:GLU:OE2	15:M1:615:PRO:C	2.36	0.63
11:I1:1035:GLN:N	15:M1:627:LEU:HD23	2.09	0.63
11:I1:1103:LEU:CD2	20:R1:175:GLN:HG2	2.27	0.63
11:I1:1110:SER:H	16:N1:437:VAL:C	2.01	0.63
11:I1:1110:SER:H	16:N1:440:GLU:N	1.96	0.63
11:I2:898:VAL:HG12	17:O3:235:ASN:CB	2.21	0.63
11:I2:900:ARG:H	17:O3:232:LYS:CB	2.10	0.63
11:I4:1297:LEU:O	11:I4:1301:ASN:ND2	2.31	0.63
21:S4:950:HIS:ND1	21:S4:978:ALA:HB2	2.13	0.63
22:T3:885:ARG:HH11	22:T3:885:ARG:CG	2.11	0.63
23:U3:13:THR:O	23:U3:17:ASP:N	2.24	0.63
23:U3:278:GLN:HG2	25:W4:189:SER:O	1.98	0.63
1:A1:868:GLN:CA	6:D3:280:GLN:HB3	2.27	0.63
2:A2:879:LEU:HD12	6:D1:564:ASN:CG	2.19	0.63
2:A2:979:GLY:O	6:D1:472:PHE:HB2	1.96	0.63
2:A2:1137:ALA:O	3:A5:130:ILE:HD12	1.98	0.63
2:A2:1139:ILE:HD12	3:A5:138:LEU:HD12	1.80	0.63
1:A3:1098:ARG:NH1	11:I2:1411:ILE:O	2.31	0.63
1:A3:1189:LEU:CG	3:A6:579:PHE:CE1	2.75	0.63
1:A3:1233:GLN:HG3	3:A6:578:ILE:HB	1.80	0.63
1:A3:1389:SER:OG	3:A6:229:SER:C	2.37	0.63
2:A4:652:PRO:HB3	3:A6:542:LEU:HD13	1.24	0.63
2:A4:756:ALA:HA	3:A6:387:THR:C	2.13	0.63
2:A4:770:GLY:N	3:A6:477:PHE:CB	2.61	0.63
2:A4:775:LEU:CG	3:A6:478:ASP:O	2.46	0.63
2:A4:778:PHE:HE1	3:A6:466:ALA:HB1	1.55	0.63
2:A4:793:SER:CA	3:A6:146:LYS:HE2	2.27	0.63
3:A5:156:ALA:C	5:C2:741:THR:CG2	2.66	0.63
3:A6:487:ASP:N	6:D3:675:ARG:HA	1.68	0.63
3:A6:1403:MSE:CE	28:Z4:964:LEU:HA	1.96	0.63
11:I1:912:VAL:N	15:M1:584:GLN:HE22	1.93	0.63
11:I1:945:LEU:CD2	17:O1:258:GLU:C	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1032:THR:H	20:R1:176:ARG:C	1.62	0.63
11:I2:797:LEU:CD1	17:O3:244:GLU:O	2.44	0.63
11:I2:1360:GLU:N	11:I2:1360:GLU:OE1	2.32	0.63
11:I3:408:PRO:O	11:I3:409:SER:OG	2.16	0.63
11:I4:1270:LYS:HE2	26:X3:527:VAL:CG1	1.83	0.63
21:S3:316:LEU:HA	21:S3:319:ASN:HD22	1.63	0.63
23:U1:275:GLU:CB	25:W2:190:ASP:HA	2.26	0.63
28:Z2:63:SER:OG	28:Z2:112:GLU:OE1	2.15	0.63
2:A2:825:ARG:CD	6:D1:633:LYS:HG3	2.28	0.63
2:A2:1132:PRO:CD	3:A5:160:ILE:CG2	2.65	0.63
2:A2:1141:GLU:O	3:A5:129:ASN:N	2.29	0.63
2:A4:550:VAL:O	3:A6:457:LYS:HB3	1.97	0.63
2:A4:674:ASP:N	3:A6:97:ASP:OD1	2.31	0.63
2:A4:720:LEU:CB	3:A6:511:PHE:O	2.47	0.63
2:A4:732:GLN:HA	3:A6:92:ASP:HA	1.80	0.63
2:A4:947:LYS:CD	3:A6:203:ILE:CG1	2.76	0.63
2:A4:951:GLU:N	4:B6:347:LEU:CG	2.54	0.63
2:A4:980:ARG:HD2	6:D3:526:LEU:H	1.62	0.63
2:A4:1151:THR:CA	5:C4:733:LEU:CA	2.60	0.63
3:A5:1392:ARG:HD3	28:Z2:866:GLU:C	2.18	0.63
3:A6:520:GLU:CG	6:D3:639:LEU:CG	2.74	0.63
6:D4:450:GLU:O	6:D4:454:THR:HG22	1.97	0.63
11:I1:919:ALA:O	15:M1:592:LEU:CB	2.47	0.63
11:I1:921:GLU:HA	15:M1:596:ILE:HG13	1.81	0.63
11:I1:924:ILE:C	15:M1:596:ILE:HB	2.19	0.63
11:I1:927:HIS:CD2	15:M1:594:LYS:HG3	2.34	0.63
11:I1:934:LEU:N	15:M1:601:ASP:O	2.31	0.63
11:I1:978:LYS:CG	20:R1:150:ASN:C	2.57	0.63
11:I1:984:GLU:HB3	15:M1:618:GLN:CD	2.17	0.63
11:I1:1029:LEU:HB3	20:R1:174:ARG:CG	2.28	0.63
11:I1:1049:LEU:HB3	20:R1:146:LEU:HD11	1.79	0.63
11:I1:1109:LEU:CG	16:N1:438:LEU:HD23	2.26	0.63
11:I1:1540:LYS:CE	11:I2:1739:GLU:HB2	2.22	0.63
11:I2:640:ILE:O	11:I2:645:ARG:NH1	2.31	0.63
11:I2:887:GLN:C	17:O3:242:ARG:NE	2.49	0.63
11:I2:1033:PRO:HB2	20:R3:177:LEU:CG	2.12	0.63
11:I2:1047:CYS:HA	17:O3:287:LEU:HD22	1.80	0.63
11:I4:813:ILE:CA	26:X3:496:THR:CG2	2.76	0.63
17:O2:111:TYR:N	18:P2:325:ILE:CG1	2.57	0.63
21:S1:667:ALA:HA	21:S2:1148:TYR:N	1.86	0.63
27:Y1:42:THR:O	27:Y1:44:ASN:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:876:ARG:CD	6:D1:558:LYS:CG	2.59	0.63
1:A3:1162:ASN:OD1	3:A6:732:GLN:OE1	2.16	0.63
1:A3:1162:ASN:H	3:A6:647:GLU:HA	1.61	0.63
1:A3:1228:TYR:CD1	3:A6:551:GLN:C	2.70	0.63
1:A3:1228:TYR:C	3:A6:574:ARG:HB3	2.15	0.63
2:A4:93:ASP:CG	3:A6:361:ASP:CB	2.66	0.63
2:A4:473:PRO:HG3	3:A6:366:ALA:O	1.99	0.63
2:A4:726:ALA:HA	3:A6:575:LEU:CD1	2.29	0.63
2:A4:954:ILE:C	4:B6:345:LYS:HA	2.19	0.63
2:A4:989:MSE:HG3	6:D3:500:LYS:CD	2.28	0.63
8:F1:1138:TRP:N	17:O2:244:GLU:C	2.49	0.63
11:I1:991:THR:HG22	15:M1:611:LYS:H	1.60	0.63
11:I2:884:LEU:C	16:N3:397:GLU:HG2	2.19	0.63
11:I2:925:LEU:HG	15:M3:593:ALA:CB	2.28	0.63
11:I2:1054:ILE:CG2	17:O3:278:GLU:HB3	2.28	0.63
11:I2:1114:VAL:HG13	16:N3:432:TYR:HA	1.79	0.63
11:I3:1360:GLU:N	11:I3:1360:GLU:OE1	2.32	0.63
11:I5:640:ILE:O	11:I5:645:ARG:NH1	2.31	0.63
27:Y3:81:VAL:HG23	27:Y3:111:LEU:HD13	1.81	0.63
27:Y4:85:GLU:HB2	27:Y4:101:LEU:HD11	1.80	0.63
2:A2:780:GLU:CA	6:D1:674:TYR:HA	2.25	0.63
2:A2:870:HIS:NE2	6:D1:551:PHE:O	2.19	0.63
2:A2:965:LYS:HA	6:D1:199:GLY:C	2.19	0.63
2:A2:1094:ILE:HD13	6:D2:708:ASP:OD1	1.98	0.63
2:A2:1122:LEU:HD11	3:A5:135:PHE:CD2	2.30	0.63
2:A2:1132:PRO:HB3	3:A5:144:PHE:C	2.17	0.63
2:A2:1135:ARG:CZ	3:A5:134:VAL:HG11	2.28	0.63
2:A2:1143:LEU:N	3:A5:130:ILE:O	2.31	0.63
1:A3:1184:ASP:HB3	3:A6:727:ASN:OD1	1.99	0.63
2:A4:87:GLN:HB2	3:A6:392:LEU:CA	2.13	0.63
2:A4:543:GLY:O	3:A6:365:MET:CG	2.47	0.63
2:A4:617:VAL:HG23	3:A6:509:LYS:HZ2	1.63	0.63
2:A4:682:ARG:HG2	3:A6:106:ALA:HA	1.81	0.63
2:A4:724:LEU:HB2	3:A6:547:GLU:OE2	1.99	0.63
2:A4:727:ASN:HD21	3:A6:605:TYR:CA	2.10	0.63
2:A4:864:ARG:HB3	6:D3:608:ILE:CG1	2.26	0.63
2:A4:870:HIS:HB3	6:D3:551:PHE:HD2	1.64	0.63
2:A4:909:LYS:CG	6:D3:552:TYR:CZ	2.49	0.63
2:A4:975:GLU:C	6:D3:496:LEU:C	2.56	0.63
4:B5:344:ALA:CA	5:C2:737:LYS:NZ	2.59	0.63
9:G1:262:SER:HB3	17:O2:256:TYR:OH	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:884:LEU:HB3	16:N1:397:GLU:N	2.14	0.63
11:I1:916:ALA:N	15:M1:586:ASP:CA	2.60	0.63
11:I1:920:PHE:HZ	17:O1:247:TRP:CD2	2.17	0.63
11:I2:981:VAL:CB	20:R3:147:LEU:HG	2.27	0.63
11:I2:1067:PHE:CD2	16:N3:431:VAL:HB	2.34	0.63
11:I3:1297:LEU:O	11:I3:1301:ASN:ND2	2.31	0.63
11:I4:1360:GLU:N	11:I4:1360:GLU:OE1	2.32	0.63
17:O3:155:VAL:CB	18:P3:321:ILE:HG21	2.21	0.63
18:P1:279:GLY:H	18:P4:322:LYS:HD2	1.61	0.63
1:A1:1200:ARG:HB3	2:A2:727:ASN:CA	2.29	0.63
1:A3:1201:ARG:HG3	3:A6:548:LEU:C	2.17	0.63
1:A3:1225:PRO:CD	3:A6:497:GLY:HA2	2.28	0.63
1:A3:1229:VAL:CG2	3:A6:574:ARG:CG	2.76	0.63
2:A4:736:PRO:CA	3:A6:685:ARG:HH11	1.68	0.63
2:A4:781:ARG:CD	6:D3:633:LYS:NZ	2.52	0.63
2:A4:792:VAL:HG22	3:A6:248:VAL:H	0.81	0.63
2:A4:806:PHE:O	3:A6:470:ARG:O	2.17	0.63
2:A4:859:GLN:CD	3:A6:176:LEU:HD21	2.17	0.63
2:A4:870:HIS:O	6:D3:569:CYS:HB3	1.99	0.63
2:A4:975:GLU:C	6:D3:496:LEU:O	2.37	0.63
2:A4:977:VAL:HA	6:D3:492:VAL:HG13	1.78	0.63
3:A5:177:ILE:CG2	5:C2:737:LYS:HA	2.29	0.63
3:A5:1394:VAL:CG1	28:Z2:874:ASN:C	2.46	0.63
3:A6:1377:ARG:HD2	28:Z4:810:ASP:CB	2.29	0.63
11:I1:898:VAL:CG2	17:O1:236:ASP:HA	2.29	0.63
11:I1:928:LEU:CD1	20:R1:155:GLU:HB2	2.28	0.63
11:I1:936:LYS:HB2	15:M1:605:THR:HB	1.80	0.63
11:I1:953:LEU:N	16:N1:403:VAL:HG11	2.13	0.63
11:I1:980:ILE:HG13	20:R1:147:LEU:HD13	1.78	0.63
11:I1:1052:LEU:CD1	15:M1:623:LEU:HD12	2.27	0.63
11:I1:1667:GLN:C	11:I2:1665:LEU:HD23	2.19	0.63
11:I1:1671:LEU:HD13	11:I2:1675:VAL:HG23	1.81	0.63
11:I2:899:LEU:CA	17:O3:235:ASN:HB2	2.29	0.63
11:I2:913:ALA:O	15:M3:584:GLN:HG3	1.99	0.63
11:I2:938:CYS:C	17:O3:261:LYS:C	2.57	0.63
11:I3:1280:PRO:CD	26:X1:523:LEU:HD13	2.14	0.63
11:I4:1276:GLN:CB	26:X3:516:ASN:O	2.43	0.63
21:S3:683:LEU:H	21:S4:1149:GLU:N	1.97	0.63
26:X2:265:ILE:HG21	26:X2:289:ILE:HD11	1.81	0.63
27:Y3:85:GLU:HB2	27:Y3:101:LEU:HD11	1.80	0.63
27:Y4:81:VAL:HG23	27:Y4:111:LEU:HD13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:829:SER:HA	28:Z1:841:ALA:HB1	1.81	0.63
28:Z3:829:SER:HA	28:Z3:841:ALA:HB1	1.81	0.63
1:A1:1052:THR:CG2	6:D1:812:VAL:CG1	2.77	0.63
2:A2:825:ARG:CZ	6:D1:633:LYS:HZ3	2.11	0.63
2:A2:940:PRO:HA	3:A5:585:ASN:HB3	1.80	0.63
2:A2:1094:ILE:HD12	6:D2:708:ASP:OD1	1.99	0.63
2:A2:1154:PHE:HB3	3:A5:175:GLU:OE1	1.92	0.63
1:A3:1254:LEU:N	3:A6:634:ASP:CB	2.61	0.63
2:A4:756:ALA:CB	3:A6:387:THR:O	2.45	0.63
2:A4:757:LEU:CG	3:A6:543:GLY:C	2.67	0.63
2:A4:780:GLU:OE2	3:A6:565:THR:CG2	2.46	0.63
2:A4:822:ILE:O	3:A6:564:ASN:C	2.36	0.63
3:A5:999:SER:OG	11:I5:63:PRO:CG	2.46	0.63
3:A5:1022:SER:O	11:I5:95:LYS:CB	2.42	0.63
3:A5:1395:LYS:HE3	28:Z2:872:TYR:N	2.13	0.63
3:A6:1370:ALA:HB1	28:Z4:870:ILE:C	2.19	0.63
11:I1:978:LYS:CE	20:R1:154:ALA:C	2.37	0.63
11:I1:1055:GLU:CG	17:O1:280:GLU:HG3	2.27	0.63
11:I2:948:ALA:CA	17:O3:256:TYR:HB3	2.23	0.63
11:I2:1032:THR:HG23	15:M3:627:LEU:C	1.85	0.63
11:I3:1276:GLN:C	26:X1:522:MET:CB	2.67	0.63
17:O3:147:ALA:O	18:P3:328:PRO:HB3	1.99	0.63
21:S1:679:ILE:O	21:S2:1071:LEU:HD21	1.96	0.63
23:U3:260:GLU:OE2	24:V3:318:HIS:NE2	2.29	0.63
23:U3:278:GLN:CG	25:W4:189:SER:HB3	2.13	0.63
27:Y1:85:GLU:HB2	27:Y1:101:LEU:HD11	1.80	0.63
2:A2:1142:PHE:CZ	3:A5:567:VAL:HG23	0.29	0.62
2:A2:1154:PHE:CD2	3:A5:175:GLU:CG	2.79	0.62
1:A3:1170:ILE:CA	3:A6:590:SER:C	2.58	0.62
1:A3:1332:ARG:CD	3:A6:127:HIS:CE1	2.82	0.62
2:A4:91:LEU:HB3	3:A6:104:PRO:HG3	1.81	0.62
2:A4:227:SER:HB3	6:D3:708:ASP:O	1.98	0.62
2:A4:754:HIS:CA	3:A6:543:GLY:C	2.66	0.62
2:A4:949:PHE:CG	4:B6:348:PRO:HD3	2.29	0.62
3:A5:186:ILE:HD12	5:C2:744:PHE:CB	2.26	0.62
3:A5:1029:ILE:CG2	11:I5:70:GLU:CA	2.72	0.62
8:F1:330:GLU:N	8:F1:330:GLU:OE1	2.32	0.62
11:I1:850:ILE:CG2	15:M1:594:LYS:HG2	2.28	0.62
11:I1:898:VAL:CG2	17:O1:237:PRO:HD3	2.29	0.62
11:I1:917:TYR:CG	15:M1:586:ASP:O	2.51	0.62
11:I1:1014:ASN:HB3	16:N1:414:ALA:N	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:881:ILE:HG23	17:O3:249:ARG:HH22	1.59	0.62
11:I2:945:LEU:HB3	17:O3:260:LEU:H	1.62	0.62
11:I2:965:ALA:HB3	20:R3:165:SER:H	1.63	0.62
28:Z3:119:VAL:HB	28:Z3:131:LEU:HB2	1.81	0.62
28:Z4:829:SER:HA	28:Z4:841:ALA:HB1	1.81	0.62
2:A2:975:GLU:H	6:D1:499:LEU:CD1	2.12	0.62
2:A2:979:GLY:H	6:D1:496:LEU:HD13	1.62	0.62
2:A2:979:GLY:C	6:D1:473:GLU:CD	2.58	0.62
2:A2:992:TYR:CG	6:D1:238:ALA:HB2	2.34	0.62
1:A3:1257:VAL:HG13	3:A6:619:CYS:C	2.19	0.62
2:A4:542:LEU:HD23	3:A6:364:HIS:CE1	2.28	0.62
2:A4:543:GLY:O	3:A6:365:MET:CA	2.47	0.62
2:A4:726:ALA:CB	3:A6:575:LEU:HD13	2.29	0.62
2:A4:727:ASN:ND2	3:A6:497:GLY:C	2.51	0.62
2:A4:761:GLN:CD	3:A6:535:PHE:CZ	2.72	0.62
2:A4:897:ASN:O	3:A6:165:PHE:HD1	1.82	0.62
2:A4:982:THR:CG2	6:D3:494:LEU:C	2.67	0.62
2:A4:1151:THR:HG21	5:C4:734:VAL:CA	2.26	0.62
3:A6:484:PRO:HD2	6:D3:672:GLU:HA	1.81	0.62
3:A6:1375:THR:OG1	28:Z4:829:SER:CB	2.47	0.62
9:G1:262:SER:HB3	17:O2:256:TYR:CZ	2.34	0.62
11:I1:1049:LEU:CD1	15:M1:626:HIS:HD2	1.78	0.62
11:I1:1360:GLU:N	11:I1:1360:GLU:OE1	2.32	0.62
11:I1:1433:THR:HG21	12:J1:270:ARG:HD3	1.82	0.62
11:I1:1540:LYS:NZ	11:I2:1739:GLU:HB2	2.13	0.62
11:I1:1602:PHE:CD1	11:I2:1666:THR:CG2	2.65	0.62
11:I1:1611:PHE:HB2	11:I2:1672:VAL:CG2	2.30	0.62
11:I2:828:VAL:CG1	17:O3:237:PRO:HD2	2.29	0.62
11:I2:834:SER:CB	17:O3:237:PRO:CA	2.13	0.62
11:I2:1029:LEU:H	20:R3:171:ALA:CA	2.12	0.62
11:I2:1040:HIS:HE1	16:N3:437:VAL:HG11	1.52	0.62
11:I2:1109:LEU:HB3	16:N3:438:LEU:HD23	1.82	0.62
11:I5:1276:GLN:O	26:X2:518:ASP:N	2.30	0.62
17:O2:111:TYR:H	18:P2:325:ILE:CB	2.11	0.62
23:U1:260:GLU:OE2	24:V1:318:HIS:NE2	2.29	0.62
26:X1:170:ASN:O	26:X1:174:GLU:HG3	1.99	0.62
2:A2:1136:LYS:HG3	3:A5:138:LEU:C	2.19	0.62
1:A3:1116:HIS:HB2	3:A6:596:ARG:NH2	2.02	0.62
1:A3:1172:HIS:CB	3:A6:587:VAL:C	2.25	0.62
1:A3:1188:ASN:HB2	3:A6:642:ARG:CA	2.29	0.62
2:A4:551:GLN:HG3	3:A6:107:SER:CA	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:737:PRO:C	3:A6:89:LEU:CB	2.52	0.62
2:A4:760:LEU:CB	3:A6:388:GLU:HG3	2.29	0.62
2:A4:852:ASP:HB3	3:A6:169:TYR:CE1	2.31	0.62
2:A4:876:ARG:NE	6:D3:565:MET:SD	2.68	0.62
2:A4:877:ALA:HA	6:D3:563:GLU:HA	0.62	0.62
2:A4:985:ALA:CB	6:D3:497:PHE:HA	2.29	0.62
2:A4:985:ALA:HB1	6:D3:500:LYS:HA	1.77	0.62
3:A5:993:ASN:O	11:I5:57:GLU:HA	1.99	0.62
3:A5:1032:LEU:HB2	11:I5:69:GLY:O	1.98	0.62
3:A5:1385:GLU:CD	28:Z2:863:ASP:CB	2.67	0.62
3:A5:1414:PHE:H	28:Z2:961:PHE:CB	2.12	0.62
3:A6:446:LEU:HG	6:D3:721:PRO:HA	1.79	0.62
11:I1:911:PRO:C	15:M1:584:GLN:HE21	1.97	0.62
11:I1:987:GLY:N	15:M1:613:ASP:CB	2.61	0.62
11:I1:1048:GLU:HG2	17:O1:288:GLU:H	1.65	0.62
11:I1:1049:LEU:C	17:O1:291:ASP:HB2	2.20	0.62
11:I1:1116:ASP:OD1	12:J1:241:THR:HG23	2.00	0.62
11:I2:896:PRO:HB3	17:O3:233:THR:CB	2.29	0.62
11:I2:1031:ALA:H	20:R3:173:LEU:HA	1.15	0.62
11:I2:1227:GLU:OE1	11:I2:1227:GLU:N	2.32	0.62
17:O4:109:PRO:CA	18:P4:318:PRO:HB3	2.29	0.62
21:S2:176:MET:HE1	21:S2:232:LEU:HD12	1.81	0.62
21:S2:1032:ILE:CD1	21:S2:1051:ALA:HA	2.29	0.62
26:X3:170:ASN:O	26:X3:174:GLU:HG3	1.99	0.62
2:A2:870:HIS:HB3	6:D1:548:LEU:HD23	1.82	0.62
2:A2:980:ARG:NH2	6:D1:503:LEU:CG	2.59	0.62
2:A2:1157:TYR:CG	3:A5:131:PRO:HB3	2.26	0.62
1:A3:1161:ALA:O	3:A6:649:GLY:N	2.31	0.62
1:A3:1284:ASN:C	3:A6:581:LYS:HZ1	1.97	0.62
2:A4:678:LEU:HD23	3:A6:431:PHE:CG	2.34	0.62
2:A4:678:LEU:CG	3:A6:103:ARG:O	2.31	0.62
2:A4:755:GLN:N	3:A6:540:GLN:H	1.98	0.62
2:A4:766:SER:C	3:A6:471:PHE:N	2.52	0.62
2:A4:770:GLY:H	3:A6:469:PHE:HB2	1.65	0.62
2:A4:823:VAL:CB	3:A6:167:TRP:CZ2	2.79	0.62
2:A4:908:LEU:CD2	6:D3:601:PHE:CA	2.76	0.62
2:A4:1019:ARG:NH1	6:D3:238:ALA:C	2.52	0.62
3:A5:1394:VAL:O	28:Z2:874:ASN:CB	2.37	0.62
3:A6:442:ARG:HH11	6:D3:695:LEU:HD11	1.64	0.62
3:A6:442:ARG:HH21	6:D3:740:GLU:C	2.02	0.62
3:A6:1370:ALA:CA	28:Z4:874:ASN:CB	2.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:179:ASP:OD2	11:I3:49:PRO:HA	2.00	0.62
9:G1:256:GLN:N	17:O2:257:ALA:HB2	2.10	0.62
11:I1:882:LYS:HB2	17:O1:245:GLU:HB3	1.77	0.62
11:I1:924:ILE:CD1	15:M1:595:MET:HB3	2.00	0.62
11:I1:983:LEU:HD13	15:M1:621:ARG:HE	1.62	0.62
11:I1:1664:PHE:CD2	11:I2:1669:ARG:N	2.62	0.62
11:I2:962:ILE:HA	20:R3:164:PRO:C	1.74	0.62
11:I2:1029:LEU:CB	20:R3:174:ARG:CG	2.67	0.62
11:I3:1644:ARG:HD3	12:J3:275:PHE:CZ	2.34	0.62
11:I4:1433:THR:HG21	12:J4:270:ARG:HD3	1.82	0.62
21:S4:1032:ILE:CD1	21:S4:1051:ALA:HA	2.29	0.62
22:T3:671:LYS:HA	22:T3:671:LYS:HE2	1.80	0.62
22:T4:671:LYS:HA	22:T4:671:LYS:HE2	1.80	0.62
23:U4:13:THR:O	23:U4:17:ASP:N	2.24	0.62
1:A1:1056:PHE:HZ	6:D1:809:ALA:N	1.95	0.62
2:A2:979:GLY:C	6:D1:473:GLU:OE2	2.36	0.62
2:A2:1157:TYR:CD1	3:A5:134:VAL:HG21	2.30	0.62
1:A3:1233:GLN:HG2	3:A6:578:ILE:HG21	1.80	0.62
1:A3:1258:VAL:N	3:A6:623:SER:CB	2.62	0.62
2:A4:691:LYS:HZ2	3:A6:330:LEU:HG	1.63	0.62
2:A4:712:THR:H	3:A6:462:LEU:HD23	1.60	0.62
2:A4:714:GLN:OE1	3:A6:489:LEU:O	2.17	0.62
2:A4:721:ARG:NE	3:A6:122:PHE:HZ	1.94	0.62
2:A4:775:LEU:HB2	3:A6:489:LEU:HD12	0.67	0.62
2:A4:801:THR:CB	3:A6:380:ALA:C	2.67	0.62
2:A4:803:GLU:CG	3:A6:382:SER:C	2.66	0.62
2:A4:820:LYS:NZ	3:A6:166:LEU:HA	2.14	0.62
2:A4:886:PHE:HE1	3:A6:176:LEU:CD2	2.12	0.62
2:A4:894:THR:OG1	3:A6:166:LEU:N	2.33	0.62
2:A4:897:ASN:HB2	3:A6:177:ILE:H	1.64	0.62
2:A4:903:GLU:OE2	3:A6:180:GLU:OE1	2.17	0.62
3:A6:444:ARG:H	6:D3:719:LEU:CD1	2.11	0.62
3:A6:1398:LYS:HD3	28:Z4:921:THR:N	2.11	0.62
8:F1:1202:TYR:CD1	17:O2:252:VAL:CG2	2.82	0.62
8:F2:330:GLU:N	8:F2:330:GLU:OE1	2.32	0.62
11:I1:924:ILE:HD11	15:M1:596:ILE:HG13	1.81	0.62
11:I1:1048:GLU:HB2	17:O1:284:LYS:CA	2.27	0.62
11:I1:1605:LEU:HD22	11:I2:1669:ARG:HD3	1.79	0.62
11:I2:879:VAL:C	17:O3:246:LEU:O	2.37	0.62
11:I2:899:LEU:HD12	17:O3:232:LYS:C	2.18	0.62
11:I2:919:ALA:HB2	16:N3:389:PHE:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1034:ASP:OD2	15:M3:630:LEU:HD22	1.99	0.62
11:I2:1049:LEU:HA	15:M3:622:VAL:CG1	2.30	0.62
11:I2:1054:ILE:N	17:O3:281:ALA:C	2.47	0.62
11:I2:1644:ARG:HD3	12:J2:275:PHE:CZ	2.34	0.62
11:I4:816:ASP:CB	26:X3:497:ARG:HH11	2.10	0.62
11:I5:1116:ASP:OD1	12:J5:241:THR:HG23	2.00	0.62
11:I5:1279:THR:HG21	26:X2:521:TRP:N	2.14	0.62
21:S3:596:ILE:N	21:S4:1119:LEU:CD1	2.53	0.62
21:S3:1054:LEU:HA	21:S3:1057:TYR:HD2	1.65	0.62
22:T2:851:LYS:HA	22:T2:891:VAL:HG13	1.81	0.62
22:T3:851:LYS:HA	22:T3:891:VAL:HG13	1.81	0.62
1:A1:1099:GLN:HG3	11:I1:1414:CYS:SG	2.40	0.62
2:A2:782:VAL:N	6:D1:677:GLN:N	2.48	0.62
2:A2:882:SER:HB2	6:D1:604:ASP:OD2	1.99	0.62
2:A2:907:SER:CB	6:D1:600:LYS:O	2.38	0.62
2:A2:970:PHE:CD1	6:D1:192:TYR:CZ	2.66	0.62
1:A3:1188:ASN:CB	3:A6:642:ARG:HA	2.28	0.62
1:A3:1192:GLN:N	3:A6:615:LEU:N	2.45	0.62
1:A3:1238:ILE:HD13	3:A6:640:LEU:HD13	1.82	0.62
1:A3:1254:LEU:HA	3:A6:638:GLU:CG	2.29	0.62
1:A3:1270:SER:OG	3:A6:553:ASP:O	2.17	0.62
2:A4:635:ARG:NH2	3:A6:601:PHE:N	2.47	0.62
2:A4:825:ARG:HH11	6:D3:633:LYS:HG3	1.61	0.62
2:A4:855:THR:N	3:A6:168:ASP:O	2.32	0.62
2:A4:876:ARG:CG	6:D3:558:LYS:CA	2.57	0.62
2:A4:893:LEU:CD1	3:A6:175:GLU:CB	2.45	0.62
2:A4:908:LEU:CD2	6:D3:601:PHE:O	2.47	0.62
3:A5:221:SER:CB	5:C2:738:ASP:OD2	2.43	0.62
3:A5:1098:ARG:NE	11:I5:29:GLN:O	2.08	0.62
5:C1:732:LYS:HG2	11:I1:1228:GLU:HG3	1.81	0.62
6:D5:594:LYS:HZ2	24:V2:255:GLN:HE22	1.45	0.62
8:F1:1202:TYR:O	17:O2:252:VAL:N	2.33	0.62
11:I1:885:GLU:OE2	17:O1:249:ARG:CZ	2.48	0.62
11:I1:898:VAL:HG21	17:O1:235:ASN:O	2.00	0.62
11:I1:965:ALA:CB	20:R1:164:PRO:HA	2.29	0.62
11:I1:982:GLN:HG3	15:M1:621:ARG:NH2	2.05	0.62
11:I1:1028:CYS:SG	20:R1:168:LEU:CB	2.85	0.62
11:I1:1034:ASP:CB	16:N1:444:SER:OG	2.48	0.62
11:I1:1677:LYS:HE2	11:I2:1543:LEU:HD13	1.69	0.62
11:I2:966:TRP:N	20:R3:154:ALA:CA	2.63	0.62
11:I5:1644:ARG:HD3	12:J5:275:PHE:CZ	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:652:VAL:O	21:S2:1156:ILE:O	2.18	0.62
21:S3:1097:LYS:NZ	21:S3:1101:PHE:HE1	1.96	0.62
22:T4:917:ASP:HB2	22:T4:918:PRO:HD2	1.82	0.62
23:U3:278:GLN:OE1	25:W4:192:GLN:CA	2.48	0.62
26:X4:515:THR:HG22	26:X4:516:ASN:H	1.65	0.62
2:A2:868:GLN:HE21	6:D1:609:ILE:N	1.97	0.62
2:A2:1126:VAL:HA	3:A5:135:PHE:O	2.00	0.62
2:A2:1131:ILE:CA	3:A5:141:GLY:N	2.62	0.62
2:A2:1143:LEU:C	3:A5:129:ASN:HB2	2.20	0.62
2:A2:1150:LEU:CD1	5:C2:731:LYS:HG2	2.30	0.62
1:A3:1186:TRP:HH2	3:A6:637:THR:HG23	1.48	0.62
1:A3:1271:ILE:HG12	3:A6:553:ASP:H	1.64	0.62
2:A4:717:VAL:CB	3:A6:492:SER:C	2.63	0.62
2:A4:720:LEU:HD13	3:A6:494:PRO:CG	2.29	0.62
2:A4:769:GLU:HG3	3:A6:477:PHE:CE2	2.34	0.62
2:A4:819:VAL:C	3:A6:147:LEU:HB3	2.20	0.62
2:A4:854:VAL:CB	3:A6:171:HIS:ND1	2.60	0.62
2:A4:954:ILE:HB	4:B6:346:LEU:N	2.14	0.62
2:A4:1150:LEU:CD1	5:C4:731:LYS:HG2	2.30	0.62
3:A6:1393:THR:HB	28:Z4:910:GLN:O	1.98	0.62
8:F1:1262:HIS:CA	17:O2:259:ASP:HA	2.29	0.62
9:G2:263:MET:HE1	17:O4:263:GLN:OE1	2.00	0.62
11:I1:1036:PRO:CA	15:M1:623:LEU:C	2.67	0.62
11:I1:1603:ARG:CB	11:I2:1738:TYR:O	2.46	0.62
11:I2:951:LYS:CG	16:N3:404:GLU:CG	2.65	0.62
11:I2:1543:LEU:C	12:J1:300:ILE:HA	2.19	0.62
11:I3:1227:GLU:OE1	11:I3:1227:GLU:N	2.32	0.62
11:I3:1274:HIS:O	26:X1:534:ILE:HG22	2.00	0.62
11:I4:1277:LEU:HG	26:X3:517:ASP:CB	2.19	0.62
23:U3:278:GLN:CG	25:W4:189:SER:C	2.66	0.62
28:Z1:119:VAL:HB	28:Z1:131:LEU:HB2	1.82	0.62
1:A1:834:GLU:CB	6:D3:302:PRO:HB3	2.24	0.62
2:A2:877:ALA:CA	6:D1:563:GLU:HA	2.30	0.62
2:A2:1019:ARG:NH2	6:D1:237:PRO:HB2	2.14	0.62
1:A3:1056:PHE:HZ	6:D3:811:LEU:N	1.91	0.62
1:A3:1196:GLU:C	3:A6:609:GLU:CG	2.68	0.62
2:A4:710:LEU:N	3:A6:480:VAL:HG21	2.13	0.62
2:A4:733:GLY:HA3	3:A6:95:TYR:N	2.15	0.62
2:A4:965:LYS:CE	6:D3:196:ILE:HA	2.27	0.62
2:A4:1053:ARG:O	6:D4:762:ARG:CG	2.37	0.62
3:A5:1300:LEU:CG	28:Z2:838:GLN:CB	2.74	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1392:ARG:HH11	28:Z2:866:GLU:CB	2.11	0.62
3:A6:133:LYS:HA	6:D3:604:ASP:N	2.13	0.62
8:F1:1264:ARG:CZ	17:O2:263:GLN:CA	2.71	0.62
11:I1:1043:LEU:CA	16:N1:430:ARG:HD2	2.29	0.62
11:I1:1055:GLU:CB	17:O1:281:ALA:H	2.12	0.62
11:I1:1602:PHE:HD1	11:I2:1666:THR:HG22	1.61	0.62
11:I1:1665:LEU:HG	11:I2:1667:GLN:HG2	0.63	0.62
11:I2:995:SER:N	17:O3:271:GLU:CB	2.45	0.62
11:I4:1116:ASP:OD1	12:J4:241:THR:HG23	2.00	0.62
11:I5:1227:GLU:OE1	11:I5:1227:GLU:N	2.33	0.62
23:U2:207:SER:HA	23:U2:210:MET:HE3	1.80	0.62
26:X1:265:ILE:HG21	26:X1:289:ILE:HD11	1.81	0.62
26:X2:170:ASN:O	26:X2:174:GLU:HG3	2.00	0.62
26:X3:265:ILE:HG21	26:X3:289:ILE:HD11	1.81	0.62
1:A1:868:GLN:HA	6:D3:280:GLN:HB3	1.81	0.62
2:A2:879:LEU:CB	6:D1:567:LEU:HD11	2.30	0.62
2:A2:1148:ARG:HB3	3:A5:171:HIS:O	2.00	0.62
1:A3:1098:ARG:NH2	11:I2:1421:ARG:NH2	2.47	0.62
1:A3:1271:ILE:CG1	3:A6:554:GLN:HG2	2.29	0.62
2:A4:80:LYS:O	3:A6:384:ILE:O	2.09	0.62
2:A4:610:THR:N	3:A6:103:ARG:HH12	1.97	0.62
2:A4:853:VAL:HB	3:A6:170:THR:CA	2.30	0.62
2:A4:859:GLN:CG	3:A6:131:PRO:CB	2.59	0.62
3:A5:1094:ILE:HG23	11:I5:4:LEU:HB2	0.62	0.62
3:A6:442:ARG:NH2	6:D3:740:GLU:C	2.52	0.62
3:A6:446:LEU:HD21	6:D3:721:PRO:HB3	1.82	0.62
6:D7:530:ARG:HH11	11:I3:182:VAL:H	1.47	0.62
9:G1:255:LEU:HA	17:O2:257:ALA:HB3	1.80	0.62
11:I1:945:LEU:HB3	17:O1:259:ASP:HB3	1.81	0.62
11:I1:1036:PRO:CA	16:N1:441:PHE:CE2	2.83	0.62
11:I1:1052:LEU:HA	17:O1:283:ALA:O	2.00	0.62
11:I1:1054:ILE:H	17:O1:282:LYS:CB	2.08	0.62
11:I1:1065:SER:HG	16:N1:430:ARG:HG3	1.64	0.62
11:I1:1109:LEU:CD1	17:O1:290:TYR:OH	2.30	0.62
11:I1:1227:GLU:N	11:I1:1227:GLU:OE1	2.32	0.62
11:I2:978:LYS:HZ1	20:R3:154:ALA:C	1.99	0.62
11:I2:1106:LYS:O	16:N3:440:GLU:N	2.31	0.62
11:I2:1455:ARG:O	11:I2:1459:ASN:ND2	2.33	0.62
11:I3:1116:ASP:OD1	12:J3:241:THR:HG23	2.00	0.62
11:I4:1227:GLU:OE1	11:I4:1227:GLU:N	2.33	0.62
21:S3:1032:ILE:CD1	21:S3:1051:ALA:HA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:213:CYS:SG	24:V1:332:ARG:NH1	2.73	0.62
27:Y1:81:VAL:HG23	27:Y1:111:LEU:HD13	1.81	0.62
28:Z2:119:VAL:HB	28:Z2:131:LEU:HB2	1.82	0.62
28:Z4:119:VAL:HB	28:Z4:131:LEU:HB2	1.81	0.62
2:A2:909:LYS:HZ1	6:D1:197:VAL:CG2	2.13	0.62
1:A3:1056:PHE:H	6:D3:809:ALA:CB	2.12	0.62
1:A3:1198:GLU:HB3	3:A6:678:LEU:CB	2.30	0.62
1:A3:1225:PRO:CD	2:A4:727:ASN:CB	2.70	0.62
2:A4:90:GLN:NE2	3:A6:427:MET:HB2	2.05	0.62
2:A4:276:GLN:NE2	4:B4:355:PRO:HD3	2.15	0.62
2:A4:675:ALA:HB2	3:A6:508:LEU:HB2	1.81	0.62
2:A4:857:LYS:NZ	3:A6:129:ASN:HB2	2.15	0.62
2:A4:873:PRO:HD2	6:D3:569:CYS:HA	1.82	0.62
2:A4:878:LEU:HD21	6:D3:608:ILE:N	2.15	0.62
2:A4:879:LEU:H	6:D3:564:ASN:HB3	1.65	0.62
2:A4:886:PHE:CE1	3:A6:176:LEU:CD2	2.82	0.62
2:A4:892:SER:N	3:A6:232:LEU:H	1.96	0.62
2:A4:951:GLU:CD	3:A6:233:THR:CB	2.64	0.62
3:A5:153:ILE:HD12	5:C2:739:MET:SD	2.07	0.62
3:A5:160:ILE:HD13	5:C2:743:LEU:CG	2.26	0.62
3:A5:996:ASN:HB3	11:I5:56:ARG:C	2.10	0.62
3:A5:1024:ASP:OD1	11:I5:96:GLU:O	2.18	0.62
3:A5:1379:GLY:O	28:Z2:811:LEU:C	2.35	0.62
3:A6:444:ARG:N	6:D3:719:LEU:HD12	2.14	0.62
3:A6:1364:GLN:NE2	28:Z4:879:PHE:C	2.53	0.62
3:A6:1375:THR:O	28:Z4:830:LEU:CA	2.48	0.62
11:I1:950:LEU:HD23	16:N1:406:HIS:CD2	1.93	0.62
11:I1:951:LYS:HB3	17:O1:253:LEU:HD21	1.81	0.62
11:I1:952:LEU:HD11	15:M1:599:ILE:CG1	2.22	0.62
11:I1:987:GLY:N	15:M1:614:ASP:N	2.47	0.62
11:I1:1056:PRO:C	17:O1:278:GLU:HB2	2.18	0.62
11:I1:1455:ARG:O	11:I1:1459:ASN:ND2	2.33	0.62
11:I2:951:LYS:CG	16:N3:403:VAL:HB	2.28	0.62
11:I2:1031:ALA:HB2	20:R3:168:LEU:HD22	1.77	0.62
11:I2:1045:PHE:HE1	17:O3:279:ILE:HG21	1.63	0.62
17:O4:111:TYR:CD1	18:P4:325:ILE:CD1	2.63	0.62
21:S1:674:LYS:O	21:S2:1145:LYS:CB	2.48	0.62
22:T1:671:LYS:HA	22:T1:671:LYS:HE2	1.80	0.62
22:T1:851:LYS:HA	22:T1:891:VAL:HG13	1.81	0.62
22:T2:917:ASP:HB2	22:T2:918:PRO:HD2	1.82	0.62
24:V3:300:LEU:HD23	24:V3:388:LEU:HD21	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y2:81:VAL:HG23	27:Y2:111:LEU:HD13	1.81	0.62
2:A2:276:GLN:NE2	4:B2:355:PRO:HD3	2.15	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CG	2.47	0.61
2:A4:90:GLN:HE22	3:A6:427:MET:HB2	1.62	0.61
2:A4:546:ASN:ND2	3:A6:365:MET:CE	2.55	0.61
2:A4:576:VAL:HA	3:A6:509:LYS:HZ3	1.65	0.61
2:A4:611:ILE:CG2	3:A6:508:LEU:CG	0.80	0.61
2:A4:652:PRO:HA	3:A6:542:LEU:HD11	1.82	0.61
2:A4:799:ASP:HB2	3:A6:330:LEU:O	1.99	0.61
2:A4:859:GLN:HA	3:A6:133:LYS:HB2	1.82	0.61
2:A4:986:THR:HG22	6:D3:504:LYS:CG	1.95	0.61
3:A5:998:SER:O	11:I5:63:PRO:HD3	2.00	0.61
3:A5:1094:ILE:CG2	11:I5:4:LEU:CA	2.74	0.61
3:A5:1367:THR:O	28:Z2:825:TYR:CB	2.48	0.61
3:A6:483:HIS:CB	6:D3:675:ARG:HD2	2.20	0.61
6:D6:649:VAL:O	6:D6:649:VAL:HG12	2.00	0.61
8:F1:1266:MET:N	17:O2:262:ASP:OD2	2.33	0.61
11:I1:26:GLU:N	11:I1:26:GLU:OE1	2.33	0.61
11:I1:956:ILE:CG1	15:M1:599:ILE:HD13	2.30	0.61
11:I2:953:LEU:HD11	15:M3:606:LEU:HB3	1.80	0.61
11:I2:954:GLU:CA	16:N3:403:VAL:HG22	2.29	0.61
11:I2:990:GLU:C	15:M3:608:LYS:HZ2	2.01	0.61
11:I2:994:ALA:CB	17:O3:268:GLY:O	2.47	0.61
11:I2:1029:LEU:CD2	16:N3:437:VAL:HG21	2.26	0.61
11:I5:421:SER:O	11:I5:425:HIS:ND1	2.33	0.61
11:I5:1360:GLU:OE1	11:I5:1360:GLU:N	2.32	0.61
21:S1:597:ILE:HA	21:S2:1120:PRO:HD2	1.78	0.61
21:S1:682:ASN:O	21:S2:1101:PHE:HZ	1.79	0.61
21:S3:1010:GLU:HA	21:S3:1013:LEU:HG	1.82	0.61
24:V2:300:LEU:HD23	24:V2:388:LEU:HD21	1.82	0.61
24:V4:300:LEU:HD23	24:V4:388:LEU:HD21	1.82	0.61
1:A1:1070:ASP:OD2	11:I1:1238:LYS:HG3	2.00	0.61
2:A2:909:LYS:HZ3	6:D1:601:PHE:HD1	1.48	0.61
2:A2:911:TYR:CE2	6:D1:555:ARG:NH2	2.68	0.61
2:A2:1126:VAL:HG22	3:A5:135:PHE:HB3	1.78	0.61
1:A3:1187:ASN:OD1	3:A6:619:CYS:CA	2.48	0.61
1:A3:1189:LEU:HD22	3:A6:614:ALA:HB2	0.62	0.61
1:A3:1223:GLU:C	3:A6:496:THR:O	2.39	0.61
1:A3:1226:LEU:CG	3:A6:550:VAL:H	2.05	0.61
1:A3:1229:VAL:HG22	3:A6:574:ARG:HG2	1.81	0.61
1:A3:1311:ARG:CZ	3:A6:715:GLU:HG3	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1325:MET:HE1	3:A6:125:VAL:HG23	1.81	0.61
2:A4:537:ALA:CB	3:A6:365:MET:HB2	2.30	0.61
2:A4:543:GLY:O	3:A6:365:MET:HB2	1.99	0.61
2:A4:728:LYS:CG	3:A6:548:LEU:CD2	2.76	0.61
2:A4:796:GLN:CA	3:A6:249:SER:CB	2.75	0.61
2:A4:870:HIS:HB3	6:D3:551:PHE:CD2	2.34	0.61
2:A4:888:GLN:NE2	3:A6:171:HIS:CE1	2.68	0.61
2:A4:986:THR:HB	6:D3:504:LYS:CE	2.26	0.61
3:A6:442:ARG:NH2	6:D3:741:ILE:N	2.47	0.61
3:A6:1368:GLN:CD	28:Z4:878:HIS:CB	2.67	0.61
5:C3:732:LYS:HZ2	11:I2:1225:LYS:HD3	1.65	0.61
6:D7:481:ARG:HB3	11:I3:183:LYS:CE	2.27	0.61
11:I1:923:GLY:C	15:M1:591:ASP:C	2.59	0.61
11:I1:990:GLU:HG3	15:M1:614:ASP:CB	2.25	0.61
11:I1:1739:GLU:CB	11:I2:1540:LYS:NZ	2.64	0.61
11:I2:837:MET:HE3	17:O3:243:LEU:CG	2.29	0.61
11:I2:849:LEU:HD13	17:O3:247:TRP:CE3	2.35	0.61
11:I2:884:LEU:O	16:N3:397:GLU:N	2.33	0.61
11:I2:962:ILE:CG2	20:R3:166:LEU:O	2.23	0.61
11:I2:963:LEU:CD2	20:R3:168:LEU:CD1	2.77	0.61
11:I2:988:GLU:N	15:M3:613:ASP:N	2.47	0.61
11:I2:990:GLU:N	15:M3:611:LYS:HB3	2.15	0.61
11:I2:1061:ASP:CG	17:O3:278:GLU:HB2	2.20	0.61
11:I4:421:SER:O	11:I4:425:HIS:ND1	2.33	0.61
11:I4:1275:SER:O	26:X3:518:ASP:CA	2.49	0.61
22:T2:885:ARG:HH11	22:T2:885:ARG:CG	2.11	0.61
22:T4:851:LYS:HA	22:T4:891:VAL:HG13	1.81	0.61
1:A1:1392:ARG:O	2:A2:888:GLN:O	2.18	0.61
2:A2:987:LYS:HE2	6:D1:555:ARG:N	2.14	0.61
1:A3:1166:LEU:HA	3:A6:595:GLU:N	2.15	0.61
1:A3:1226:LEU:N	2:A4:725:GLU:HA	2.15	0.61
1:A3:1249:PHE:HD1	3:A6:584:GLY:HA2	0.83	0.61
2:A4:80:LYS:HZ3	3:A6:387:THR:HG22	1.65	0.61
2:A4:598:VAL:HG21	3:A6:504:PRO:CD	2.28	0.61
2:A4:672:ARG:HB3	3:A6:96:PRO:CG	2.16	0.61
2:A4:682:ARG:NH2	3:A6:104:PRO:O	2.25	0.61
2:A4:788:ARG:HB3	3:A6:145:THR:CB	2.30	0.61
2:A4:789:LEU:HD23	3:A6:146:LYS:N	2.15	0.61
2:A4:917:LEU:HD11	3:A6:175:GLU:CB	2.28	0.61
3:A5:234:LEU:HD21	5:C2:738:ASP:C	2.14	0.61
3:A5:1033:GLN:OE1	11:I5:71:GLU:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1391:ARG:CZ	28:Z2:868:GLN:HA	2.30	0.61
3:A6:484:PRO:HD2	6:D3:672:GLU:CB	2.29	0.61
3:A6:1398:LYS:CD	28:Z4:918:PHE:C	2.63	0.61
6:D3:649:VAL:HG12	6:D3:649:VAL:O	2.00	0.61
11:I1:833:PHE:CE2	17:O1:238:ALA:CB	2.79	0.61
11:I1:1046:HIS:H	17:O1:283:ALA:CB	2.13	0.61
11:I2:885:GLU:HA	16:N3:397:GLU:CA	2.29	0.61
11:I2:944:GLU:O	17:O3:256:TYR:C	2.08	0.61
11:I2:990:GLU:O	17:O3:272:SER:CA	2.47	0.61
11:I2:1040:HIS:NE2	16:N3:437:VAL:HG21	2.14	0.61
11:I2:1110:SER:CB	16:N3:435:ALA:HA	2.30	0.61
11:I3:26:GLU:N	11:I3:26:GLU:OE1	2.33	0.61
11:I4:1273:GLU:C	26:X3:524:SER:HB3	2.21	0.61
21:S1:597:ILE:CA	21:S2:1119:LEU:N	2.63	0.61
23:U3:213:CYS:SG	24:V3:332:ARG:NH1	2.73	0.61
1:A1:1224:PRO:HD2	2:A2:731:ILE:HB	1.82	0.61
1:A1:1226:LEU:CA	2:A2:728:LYS:HB3	2.30	0.61
1:A1:1399:ARG:HE	2:A2:887:GLU:HB2	1.66	0.61
2:A2:866:SER:H	6:D1:605:THR:HA	1.59	0.61
2:A2:870:HIS:ND1	6:D1:566:PHE:CG	2.67	0.61
2:A2:1157:TYR:CE2	3:A5:167:TRP:CD1	2.88	0.61
1:A3:1083:SER:O	6:D3:798:MET:CA	2.49	0.61
1:A3:1168:LEU:N	3:A6:594:LEU:CD2	2.50	0.61
1:A3:1223:GLU:O	3:A6:496:THR:O	2.17	0.61
1:A3:1325:MET:HE3	3:A6:125:VAL:HG23	1.81	0.61
2:A4:648:TYR:C	3:A6:505:ALA:N	2.53	0.61
2:A4:713:ILE:N	3:A6:436:PRO:HD3	2.15	0.61
2:A4:889:VAL:CG2	3:A6:175:GLU:N	2.64	0.61
2:A4:898:LEU:N	3:A6:176:LEU:C	2.54	0.61
6:D2:649:VAL:HG12	6:D2:649:VAL:O	2.00	0.61
8:F1:1205:TRP:HB3	17:O2:254:ARG:HG2	1.82	0.61
11:I1:883:ALA:CB	17:O1:246:LEU:CA	2.43	0.61
11:I1:937:TYR:O	17:O1:258:GLU:HA	2.00	0.61
11:I1:948:ALA:H	17:O1:256:TYR:HB3	1.66	0.61
11:I1:958:THR:N	16:N1:399:HIS:CD2	2.67	0.61
11:I1:961:ARG:NH1	16:N1:389:PHE:HA	2.15	0.61
11:I2:926:SER:HA	20:R3:155:GLU:HG2	1.82	0.61
11:I2:948:ALA:HB2	17:O3:256:TYR:HB3	0.65	0.61
11:I2:995:SER:CB	17:O3:267:ALA:O	2.49	0.61
11:I2:1030:ARG:CD	20:R3:175:GLN:OE1	2.36	0.61
11:I3:1271:GLU:O	26:X1:525:ILE:HB	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I4:26:GLU:N	11:I4:26:GLU:OE1	2.33	0.61
21:S3:176:MET:HE1	21:S3:212:LEU:HD11	1.83	0.61
23:U4:213:CYS:SG	24:V4:332:ARG:NH1	2.73	0.61
1:A1:1220:PRO:O	2:A2:645:PHE:O	2.17	0.61
1:A1:1398:LYS:O	2:A2:884:ARG:NH1	2.33	0.61
2:A2:879:LEU:H	6:D1:567:LEU:HD12	1.65	0.61
1:A3:1250:PRO:C	3:A6:635:ARG:N	2.49	0.61
2:A4:75:LEU:HD23	3:A6:324:ARG:HG3	1.82	0.61
2:A4:227:SER:HB3	6:D3:709:ARG:C	2.20	0.61
2:A4:679:TYR:CB	3:A6:101:TYR:HD2	2.12	0.61
2:A4:718:GLU:CB	3:A6:121:PRO:HG2	2.26	0.61
2:A4:780:GLU:OE1	3:A6:565:THR:HG23	2.01	0.61
2:A4:792:VAL:HB	3:A6:187:THR:CB	2.30	0.61
2:A4:798:LYS:HD2	3:A6:314:TRP:CE2	2.33	0.61
2:A4:858:ALA:C	6:D3:606:LYS:HE3	2.19	0.61
2:A4:882:SER:OG	3:A6:133:LYS:CD	2.49	0.61
2:A4:918:CYS:HG	4:B6:342:ARG:HB3	1.65	0.61
3:A5:1094:ILE:HG12	11:I5:4:LEU:HD12	1.79	0.61
3:A5:1365:VAL:O	28:Z2:841:ALA:CB	2.36	0.61
3:A5:1374:ALA:CB	28:Z2:823:ALA:CA	2.21	0.61
3:A6:1389:SER:HA	28:Z4:906:GLN:O	2.00	0.61
11:I1:881:ILE:O	17:O1:249:ARG:CD	2.23	0.61
11:I1:967:SER:HB3	15:M1:625:GLY:N	2.14	0.61
11:I1:1017:VAL:H	16:N1:411:GLN:CG	2.11	0.61
11:I1:1644:ARG:HD3	12:J1:275:PHE:CZ	2.35	0.61
11:I2:26:GLU:N	11:I2:26:GLU:OE1	2.33	0.61
11:I2:890:TYR:CB	17:O3:242:ARG:HG3	2.31	0.61
11:I2:1043:LEU:HA	16:N3:430:ARG:CG	2.30	0.61
11:I3:1433:THR:HG21	12:J3:270:ARG:HD3	1.81	0.61
11:I5:26:GLU:OE1	11:I5:26:GLU:N	2.33	0.61
21:S1:1010:GLU:HA	21:S1:1013:LEU:HG	1.83	0.61
21:S1:1032:ILE:CD1	21:S1:1051:ALA:HA	2.29	0.61
23:U3:279:TYR:CZ	25:W4:190:ASP:OD1	2.53	0.61
2:A2:965:LYS:CE	6:D1:197:VAL:N	2.59	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CB	2.49	0.61
2:A2:1145:GLY:HA3	3:A5:129:ASN:HD21	1.57	0.61
2:A2:1148:ARG:HB2	3:A5:174:PRO:HD3	1.77	0.61
2:A2:1153:LEU:N	3:A5:173:ASN:O	2.31	0.61
2:A2:1155:ASN:CG	3:A5:175:GLU:CD	2.54	0.61
1:A3:1192:GLN:N	3:A6:615:LEU:H	1.97	0.61
1:A3:1201:ARG:HB3	3:A6:92:ASP:CG	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:806:PHE:HB3	3:A6:470:ARG:HB3	1.82	0.61
2:A4:824:ASN:HB2	3:A6:158:ALA:CB	2.30	0.61
2:A4:955:CYS:CB	4:B6:345:LYS:HB2	2.30	0.61
2:A4:987:LYS:CE	6:D3:553:PHE:O	2.44	0.61
3:A5:234:LEU:HD11	5:C2:740:ARG:HG3	1.80	0.61
3:A5:1050:TYR:CZ	11:I5:70:GLU:HB2	2.35	0.61
3:A6:1397:LEU:HD12	28:Z4:913:ILE:O	2.01	0.61
11:I1:931:VAL:HG13	15:M1:604:ASN:OD1	1.99	0.61
11:I1:1666:THR:HG21	11:I2:1602:PHE:HB3	1.83	0.61
11:I2:840:LEU:HG	17:O3:244:GLU:HG2	1.80	0.61
11:I2:879:VAL:HG12	17:O3:247:TRP:CB	2.27	0.61
11:I2:938:CYS:SG	15:M3:606:LEU:CG	2.89	0.61
11:I2:966:TRP:C	20:R3:150:ASN:O	2.39	0.61
11:I2:1031:ALA:O	20:R3:173:LEU:CA	2.45	0.61
11:I2:1543:LEU:O	12:J1:300:ILE:CB	2.35	0.61
21:S3:678:GLU:CA	21:S4:1141:GLU:C	2.69	0.61
21:S4:1010:GLU:HA	21:S4:1013:LEU:HG	1.83	0.61
22:T3:875:LEU:HD13	22:T3:919:LEU:HA	1.83	0.61
22:T3:917:ASP:HB2	22:T3:918:PRO:HD2	1.82	0.61
24:V1:519:LEU:O	24:V1:529:ASN:ND2	2.34	0.61
24:V4:519:LEU:O	24:V4:529:ASN:ND2	2.34	0.61
27:Y3:42:THR:O	27:Y3:44:ASN:N	2.31	0.61
1:A1:1226:LEU:N	2:A2:725:GLU:OE1	2.34	0.61
2:A2:227:SER:OG	6:D1:711:PHE:CD2	2.47	0.61
2:A2:827:ILE:CD1	2:A2:859:GLN:CB	2.61	0.61
2:A2:975:GLU:OE2	6:D1:501:LEU:CA	2.31	0.61
2:A2:1131:ILE:N	3:A5:140:ALA:N	2.48	0.61
2:A2:1157:TYR:CE1	3:A5:134:VAL:HG21	2.36	0.61
1:A3:1232:SER:HB2	3:A6:574:ARG:C	2.21	0.61
1:A3:1233:GLN:HG2	3:A6:578:ILE:CG2	2.31	0.61
1:A3:1236:GLN:OE1	3:A6:578:ILE:CG2	2.48	0.61
1:A3:1243:SER:N	3:A6:585:ASN:HA	2.14	0.61
1:A3:1249:PHE:HA	3:A6:637:THR:H	1.64	0.61
2:A4:669:LEU:CA	3:A6:542:LEU:HG	2.30	0.61
2:A4:681:THR:CB	3:A6:431:PHE:CD1	2.77	0.61
2:A4:689:LYS:HG3	3:A6:336:ILE:CD1	2.25	0.61
2:A4:720:LEU:HD21	3:A6:494:PRO:HB3	1.78	0.61
2:A4:860:GLU:HG3	3:A6:135:PHE:CD2	2.36	0.61
2:A4:985:ALA:C	6:D3:500:LYS:HA	2.20	0.61
2:A4:1019:ARG:NH1	6:D3:238:ALA:O	2.34	0.61
2:A4:1055:ARG:CG	6:D4:762:ARG:HA	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1413:SER:HB2	28:Z4:994:ILE:CB	2.29	0.61
6:D4:649:VAL:HG12	6:D4:649:VAL:O	2.00	0.61
6:D7:179:ASP:OD2	11:I3:50:ALA:N	2.34	0.61
9:G1:270:ARG:HB2	16:N2:414:ALA:O	1.97	0.61
9:G2:257:THR:HG23	17:O4:257:ALA:H	1.63	0.61
11:I1:850:ILE:HG21	15:M1:594:LYS:HG2	1.82	0.61
11:I1:880:MET:HG2	17:O1:247:TRP:CA	2.15	0.61
11:I1:881:ILE:H	17:O1:249:ARG:CB	2.00	0.61
11:I1:991:THR:HB	15:M1:610:SER:C	2.15	0.61
11:I1:1040:HIS:ND1	15:M1:623:LEU:CD2	2.64	0.61
11:I2:881:ILE:HG22	17:O3:249:ARG:CD	2.29	0.61
11:I2:966:TRP:C	20:R3:153:GLN:CG	2.69	0.61
11:I2:980:ILE:HA	15:M3:618:GLN:N	2.16	0.61
11:I2:997:SER:CB	17:O3:270:THR:HG22	2.26	0.61
11:I2:1021:ILE:HG13	16:N3:410:MET:CG	2.31	0.61
11:I2:1045:PHE:CZ	16:N3:431:VAL:O	2.52	0.61
11:I2:1116:ASP:OD1	12:J2:241:THR:HG23	2.00	0.61
11:I2:1543:LEU:CD1	12:J1:300:ILE:O	2.48	0.61
11:I3:1268:LYS:O	26:X1:525:ILE:HA	2.01	0.61
17:O3:151:LEU:CD2	18:P3:325:ILE:HG13	0.69	0.61
21:S2:1010:GLU:HA	21:S2:1013:LEU:HG	1.82	0.61
21:S2:1119:LEU:C	21:S2:1121:GLU:H	2.04	0.61
23:U2:213:CYS:SG	24:V2:332:ARG:NH1	2.73	0.61
23:U3:207:SER:HA	23:U3:210:MET:HE3	1.82	0.61
23:U3:320:HIS:CE1	24:V4:641:MET:O	2.54	0.61
24:V2:519:LEU:O	24:V2:529:ASN:ND2	2.34	0.61
2:A2:781:ARG:NH2	6:D1:679:ILE:HD12	2.15	0.61
2:A2:988:ARG:HB3	6:D1:500:LYS:CE	2.21	0.61
2:A2:1121:LEU:O	3:A5:132:ASP:C	2.39	0.61
1:A3:1017:THR:CG2	6:D3:819:ASN:CG	2.69	0.61
1:A3:1099:GLN:CA	11:I2:1414:CYS:O	2.48	0.61
2:A4:548:LEU:HB2	3:A6:105:GLY:HA3	1.79	0.61
2:A4:806:PHE:CD2	3:A6:470:ARG:HB2	2.36	0.61
2:A4:827:ILE:HG22	3:A6:135:PHE:N	2.16	0.61
2:A4:947:LYS:HZ2	3:A6:235:TYR:HD2	0.63	0.61
3:A5:1411:ARG:HH21	26:X2:743:PHE:C	2.04	0.61
3:A6:446:LEU:O	6:D3:730:ARG:NH1	2.33	0.61
11:I1:837:MET:HE2	17:O1:242:ARG:H	1.65	0.61
11:I1:931:VAL:CG1	15:M1:600:ASN:HB3	2.30	0.61
11:I1:952:LEU:CG	16:N1:400:LEU:HD22	2.20	0.61
11:I1:1049:LEU:N	15:M1:622:VAL:CG1	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1065:SER:C	16:N1:430:ARG:HG2	2.12	0.61
11:I2:840:LEU:CG	17:O3:247:TRP:HD1	2.13	0.61
11:I2:947:LEU:HD12	17:O3:260:LEU:HD21	1.77	0.61
11:I2:1020:ALA:HB3	16:N3:410:MET:CA	2.30	0.61
11:I4:1274:HIS:O	26:X3:518:ASP:O	2.18	0.61
11:I5:1433:THR:HG21	12:J5:270:ARG:HD3	1.82	0.61
17:O4:110:LEU:HB2	18:P4:321:ILE:HB	1.74	0.61
21:S1:1119:LEU:C	21:S1:1121:GLU:H	2.04	0.61
21:S4:1124:ASP:O	21:S4:1127:GLN:N	2.32	0.61
26:X4:148:MET:HE3	26:X4:152:LEU:HG	1.83	0.61
26:X4:170:ASN:O	26:X4:174:GLU:HG3	2.00	0.61
1:A1:870:HIS:CA	6:D3:279:HIS:CB	2.73	0.61
1:A3:1204:TRP:CH2	3:A6:95:TYR:O	2.53	0.61
1:A3:1238:ILE:CG2	3:A6:586:CYS:HB2	2.13	0.61
1:A3:1389:SER:HB2	3:A6:224:PRO:CB	2.05	0.61
2:A4:553:ASP:OD1	3:A6:434:PHE:C	2.38	0.61
2:A4:819:VAL:HG21	3:A6:567:VAL:HG22	1.82	0.61
3:A5:165:PHE:HB2	5:C2:743:LEU:HD13	1.82	0.61
3:A5:1028:VAL:O	11:I5:67:LYS:HB3	2.01	0.61
3:A5:1031:TYR:H	11:I5:67:LYS:HB3	1.63	0.61
3:A5:1405:LEU:CA	28:Z2:918:PHE:N	2.60	0.61
11:I1:935:GLY:O	15:M1:606:LEU:C	2.33	0.61
11:I1:937:TYR:HD2	15:M1:602:MET:SD	2.23	0.61
11:I1:955:LYS:HE2	16:N1:396:ILE:C	2.21	0.61
11:I1:1030:ARG:N	20:R1:172:ASP:C	2.52	0.61
11:I2:916:ALA:O	15:M3:589:GLY:HA3	2.01	0.61
11:I2:1036:PRO:HB3	17:O3:287:LEU:HD11	1.82	0.61
11:I2:1051:LYS:CD	17:O3:285:LYS:HD2	2.31	0.61
11:I2:1068:HIS:O	16:N3:429:GLU:OE1	2.18	0.61
11:I2:1114:VAL:CG2	16:N3:435:ALA:H	2.10	0.61
11:I2:1433:THR:HG21	12:J2:270:ARG:HD3	1.82	0.61
11:I3:421:SER:O	11:I3:425:HIS:ND1	2.33	0.61
21:S3:596:ILE:CB	21:S4:1155:GLN:CG	2.74	0.61
24:V3:519:LEU:O	24:V3:529:ASN:ND2	2.34	0.61
26:X1:515:THR:HG22	26:X1:516:ASN:H	1.65	0.61
26:X2:515:THR:HG22	26:X2:516:ASN:H	1.65	0.61
1:A1:1052:THR:HA	6:D1:812:VAL:CG1	2.31	0.61
1:A1:1197:ALA:HB1	2:A2:728:LYS:HG2	1.83	0.61
1:A3:862:LEU:HD11	1:A3:904:GLN:HB3	1.83	0.61
1:A3:1257:VAL:CG1	3:A6:618:ALA:O	2.49	0.61
2:A4:676:LEU:O	3:A6:98:LEU:HD12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:710:LEU:O	3:A6:478:ASP:HB3	2.01	0.61
2:A4:715:GLU:HG3	3:A6:515:THR:C	2.21	0.61
2:A4:720:LEU:HD13	3:A6:494:PRO:HG3	1.82	0.61
3:A5:175:GLU:OE2	5:C2:735:ILE:HA	2.01	0.61
8:F1:1094:GLY:C	17:O2:237:PRO:CA	2.68	0.61
9:G1:263:MET:SD	16:N2:411:GLN:HB3	2.41	0.61
9:G2:258:LYS:CG	17:O4:259:ASP:OD2	2.48	0.61
11:I1:889:THR:C	17:O1:239:GLN:NE2	2.54	0.61
11:I1:925:LEU:CB	20:R1:164:PRO:C	2.57	0.61
11:I1:936:LYS:HG2	15:M1:609:GLY:HA3	1.82	0.61
11:I1:937:TYR:HD2	15:M1:602:MET:CE	2.14	0.61
11:I1:957:SER:OG	16:N1:399:HIS:NE2	2.27	0.61
11:I1:1021:ILE:CD1	16:N1:410:MET:CE	2.79	0.61
11:I1:1611:PHE:C	11:I2:1673:VAL:HA	2.21	0.61
11:I2:945:LEU:CD1	17:O3:255:GLY:CA	2.79	0.61
11:I3:1455:ARG:O	11:I3:1459:ASN:ND2	2.33	0.61
17:O4:107:THR:HG23	18:P4:321:ILE:HD12	1.76	0.61
21:S3:601:LEU:CA	21:S4:1156:ILE:CB	2.79	0.61
21:S4:932:HIS:O	21:S4:933:GLU:HB2	2.01	0.61
24:V1:300:LEU:HD23	24:V1:388:LEU:HD21	1.82	0.61
2:A2:235:TYR:HE1	4:B2:347:LEU:CB	2.12	0.60
2:A2:864:ARG:HD3	6:D1:610:ASN:N	2.16	0.60
2:A2:973:GLU:CB	6:D1:192:TYR:CZ	2.83	0.60
2:A2:982:THR:HA	6:D1:528:PHE:CE2	2.36	0.60
1:A3:1223:GLU:CB	2:A4:676:LEU:HD12	2.03	0.60
1:A3:1226:LEU:O	3:A6:548:LEU:HD23	2.01	0.60
1:A3:1227:PRO:HD3	3:A6:549:ALA:CA	2.19	0.60
1:A3:1325:MET:HG2	3:A6:126:ARG:NH2	2.05	0.60
1:A3:1392:ARG:N	3:A6:225:THR:HB	2.15	0.60
2:A4:577:ASP:CA	3:A6:453:SER:OG	2.48	0.60
2:A4:682:ARG:CG	3:A6:432:VAL:N	2.62	0.60
2:A4:713:ILE:H	3:A6:462:LEU:CG	2.13	0.60
2:A4:720:LEU:C	3:A6:493:ALA:O	2.39	0.60
2:A4:947:LYS:NZ	3:A6:219:GLY:C	2.54	0.60
2:A4:947:LYS:CD	3:A6:235:TYR:CZ	2.64	0.60
3:A5:1394:VAL:C	28:Z2:874:ASN:N	2.55	0.60
6:D5:649:VAL:HG12	6:D5:649:VAL:O	2.01	0.60
11:I1:914:ASN:HB3	15:M1:586:ASP:N	2.00	0.60
11:I1:927:HIS:NE2	15:M1:594:LYS:CA	2.58	0.60
11:I1:1603:ARG:NH1	11:I2:1662:ARG:HB3	2.16	0.60
11:I2:849:LEU:HD12	17:O3:247:TRP:CZ3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:887:GLN:CA	17:O3:242:ARG:HB3	2.15	0.60
11:I2:938:CYS:O	17:O3:261:LYS:O	2.18	0.60
11:I2:988:GLU:N	11:I2:988:GLU:OE1	2.34	0.60
11:I5:408:PRO:O	11:I5:409:SER:OG	2.16	0.60
17:O4:111:TYR:N	18:P1:278:ASN:HB3	2.15	0.60
18:P1:277:PRO:HB3	18:P4:323:GLN:N	2.08	0.60
21:S1:663:LEU:HA	21:S2:1150:TYR:O	2.01	0.60
21:S3:932:HIS:O	21:S3:933:GLU:HB2	2.01	0.60
1:A1:1197:ALA:CA	2:A2:728:LYS:HZ2	2.12	0.60
2:A2:825:ARG:NH1	6:D1:679:ILE:HD11	2.15	0.60
2:A2:825:ARG:HH11	6:D1:633:LYS:HD2	1.65	0.60
2:A2:965:LYS:HE3	6:D1:195:LYS:O	2.01	0.60
2:A2:965:LYS:O	6:D1:196:ILE:HG23	2.00	0.60
2:A2:989:MSE:HE3	6:D1:239:THR:O	2.00	0.60
2:A2:1023:ILE:O	2:A2:1024:ASP:CB	2.48	0.60
2:A2:1126:VAL:N	3:A5:135:PHE:HB3	2.17	0.60
1:A3:1202:GLU:CG	3:A6:91:LEU:CA	2.78	0.60
1:A3:1333:ARG:HA	6:D3:637:LYS:HZ2	1.66	0.60
1:A3:1389:SER:HB2	3:A6:224:PRO:HA	0.62	0.60
2:A4:688:TRP:O	3:A6:381:LEU:HD23	2.00	0.60
2:A4:692:VAL:O	3:A6:466:ALA:C	2.39	0.60
2:A4:692:VAL:CA	3:A6:466:ALA:O	2.49	0.60
2:A4:717:VAL:HG21	3:A6:476:PHE:HB2	1.80	0.60
2:A4:724:LEU:CG	3:A6:496:THR:N	2.45	0.60
2:A4:874:VAL:HG12	6:D3:608:ILE:HG22	1.82	0.60
2:A4:983:LEU:HD13	6:D3:553:PHE:HB3	1.78	0.60
3:A6:442:ARG:NE	6:D3:692:LEU:HG	2.15	0.60
9:G1:254:ASN:HD21	17:O2:261:LYS:HE2	1.66	0.60
9:G1:256:GLN:CB	16:N2:403:VAL:CG1	2.80	0.60
11:I1:899:LEU:HB3	17:O1:228:GLN:O	2.01	0.60
11:I1:957:SER:HB2	20:R1:168:LEU:CA	2.31	0.60
11:I1:1020:ALA:HA	16:N1:405:ALA:CA	2.24	0.60
11:I2:790:LEU:HD22	17:O3:251:ILE:CD1	2.28	0.60
11:I2:955:LYS:HE3	16:N3:397:GLU:O	2.01	0.60
11:I2:955:LYS:HA	16:N3:399:HIS:O	1.92	0.60
11:I4:811:SER:O	26:X3:497:ARG:HD2	2.01	0.60
11:I4:1455:ARG:O	11:I4:1459:ASN:ND2	2.33	0.60
21:S3:597:ILE:C	21:S4:1154:GLY:O	2.32	0.60
23:U1:207:SER:HA	23:U1:210:MET:HE3	1.84	0.60
26:X2:148:MET:HE3	26:X2:152:LEU:HG	1.83	0.60
26:X4:240:PHE:O	26:X4:241:GLU:HG3	2.01	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:A2:872:ALA:HB1	6:D1:565:MET:CE	2.29	0.60
1:A3:1083:SER:CB	6:D3:798:MET:HE3	1.31	0.60
1:A3:1086:LYS:CD	6:D3:798:MET:O	2.49	0.60
1:A3:1165:ASP:CB	3:A6:594:LEU:HD11	2.10	0.60
1:A3:1182:ILE:CB	3:A6:639:ASN:ND2	2.63	0.60
1:A3:1189:LEU:HD12	3:A6:641:ALA:CB	2.30	0.60
1:A3:1197:ALA:H	3:A6:612:ALA:HB3	1.66	0.60
1:A3:1224:PRO:N	3:A6:500:LYS:HB2	1.86	0.60
1:A3:1225:PRO:HD3	2:A4:727:ASN:HB2	1.84	0.60
1:A3:1253:SER:HB2	3:A6:635:ARG:CA	2.32	0.60
2:A4:80:LYS:HZ2	3:A6:387:THR:CG2	2.09	0.60
2:A4:88:THR:HG22	3:A6:431:PHE:HB3	1.82	0.60
2:A4:687:LEU:HD11	3:A6:476:PHE:CE1	2.36	0.60
2:A4:778:PHE:CA	3:A6:487:ASP:OD2	2.43	0.60
2:A4:857:LYS:CD	3:A6:129:ASN:CB	2.66	0.60
2:A4:859:GLN:CB	3:A6:131:PRO:O	2.42	0.60
2:A4:880:ALA:CA	6:D3:558:LYS:CE	2.67	0.60
2:A4:896:ALA:N	3:A6:179:TYR:CB	2.62	0.60
2:A4:951:GLU:OE1	3:A6:233:THR:OG1	2.19	0.60
2:A4:984:ALA:CA	6:D3:498:GLU:OE2	2.24	0.60
3:A6:442:ARG:NE	6:D3:692:LEU:CG	2.64	0.60
3:A6:523:ASN:HD22	6:D3:635:ALA:CB	2.14	0.60
8:F1:1261:TYR:HD2	17:O2:259:ASP:C	1.98	0.60
11:I1:896:PRO:HD3	17:O1:233:THR:HG23	1.81	0.60
11:I1:931:VAL:HG13	15:M1:604:ASN:HB2	1.82	0.60
11:I1:967:SER:OG	15:M1:628:ALA:HB2	2.01	0.60
11:I1:1017:VAL:HG13	17:O1:260:LEU:HD21	1.82	0.60
11:I1:1020:ALA:CB	16:N1:406:HIS:O	2.49	0.60
11:I1:1055:GLU:CD	17:O1:280:GLU:HG3	2.22	0.60
11:I2:899:LEU:HD13	17:O3:230:ILE:O	1.93	0.60
11:I2:935:GLY:C	15:M3:609:GLY:HA3	2.21	0.60
11:I2:1035:GLN:HG3	15:M3:622:VAL:O	2.02	0.60
11:I3:1275:SER:HB3	26:X1:522:MET:HA	0.81	0.60
21:S1:1054:LEU:HA	21:S1:1057:TYR:HD2	1.65	0.60
26:X3:240:PHE:O	26:X3:241:GLU:HG3	2.02	0.60
26:X3:515:THR:HG22	26:X3:516:ASN:H	1.65	0.60
1:A1:1392:ARG:C	2:A2:851:ASP:OD1	2.40	0.60
2:A2:859:GLN:C	6:D1:606:LYS:HD3	1.98	0.60
2:A2:1131:ILE:HG12	3:A5:140:ALA:HB3	1.83	0.60
1:A3:1021:LEU:CD2	6:D3:816:VAL:CG1	2.53	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1170:ILE:N	3:A6:591:ASP:CA	2.58	0.60
1:A3:1185:THR:C	3:A6:639:ASN:O	2.40	0.60
1:A3:1186:TRP:O	3:A6:618:ALA:N	2.34	0.60
1:A3:1196:GLU:OE1	3:A6:611:ILE:N	2.34	0.60
1:A3:1223:GLU:O	3:A6:496:THR:CB	2.40	0.60
1:A3:1258:VAL:CG2	3:A6:621:GLN:O	2.49	0.60
1:A3:1277:TRP:HZ3	3:A6:622:GLY:CA	2.14	0.60
1:A3:1321:MET:CE	3:A6:126:ARG:NH2	2.55	0.60
2:A4:85:VAL:CG1	3:A6:394:LEU:C	2.69	0.60
2:A4:89:LEU:HD23	3:A6:431:PHE:O	2.00	0.60
2:A4:611:ILE:CB	3:A6:508:LEU:HD12	2.27	0.60
2:A4:861:GLN:CG	6:D3:606:LYS:NZ	2.64	0.60
2:A4:973:GLU:HG2	6:D3:192:TYR:CE2	2.36	0.60
3:A5:1357:GLU:N	28:Z2:878:HIS:O	2.16	0.60
3:A5:1387:ILE:HD11	28:Z2:830:LEU:CB	2.31	0.60
3:A6:1393:THR:HG22	28:Z4:913:ILE:C	2.21	0.60
6:D2:270:THR:HG23	6:D2:296:PHE:CD2	2.37	0.60
9:G2:256:GLN:CB	17:O4:261:LYS:N	2.63	0.60
11:I1:527:THR:O	11:I1:531:ASN:ND2	2.34	0.60
11:I1:918:SER:OG	16:N1:386:MET:HA	2.02	0.60
11:I1:950:LEU:CD2	15:M1:606:LEU:HD21	2.30	0.60
11:I1:1017:VAL:CA	16:N1:412:ASN:N	2.36	0.60
11:I1:1104:LEU:CD1	16:N1:433:GLU:CB	2.80	0.60
11:I2:887:GLN:HA	17:O3:242:ARG:HB3	1.82	0.60
11:I2:951:LYS:CB	17:O3:253:LEU:CD2	2.74	0.60
11:I5:1279:THR:CB	26:X2:520:GLU:O	2.50	0.60
21:S1:677:TYR:O	21:S2:1124:ASP:O	2.09	0.60
21:S2:1054:LEU:HA	21:S2:1057:TYR:HD2	1.65	0.60
21:S3:1119:LEU:C	21:S3:1121:GLU:H	2.04	0.60
21:S4:1054:LEU:HA	21:S4:1057:TYR:HD2	1.65	0.60
22:T1:917:ASP:HB2	22:T1:918:PRO:HD2	1.82	0.60
1:A1:1018:ASP:CG	6:D1:819:ASN:HB2	2.21	0.60
2:A2:873:PRO:C	6:D1:563:GLU:HB3	2.18	0.60
2:A2:1135:ARG:HH11	3:A5:147:LEU:HD22	1.65	0.60
2:A2:1142:PHE:CD2	3:A5:128:HIS:HB2	2.36	0.60
2:A2:1143:LEU:CA	3:A5:129:ASN:HB3	2.32	0.60
2:A2:1157:TYR:OH	3:A5:167:TRP:CE2	2.43	0.60
1:A3:1188:ASN:ND2	3:A6:646:ILE:HD11	2.16	0.60
1:A3:1227:PRO:N	3:A6:551:GLN:HG3	1.66	0.60
1:A3:1271:ILE:CG1	3:A6:553:ASP:H	2.14	0.60
1:A3:1325:MET:CE	3:A6:126:ARG:HH21	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:610:THR:HG22	3:A6:507:ALA:CB	2.30	0.60
2:A4:611:ILE:HG23	3:A6:508:LEU:CD2	2.07	0.60
2:A4:643:ALA:CA	3:A6:501:VAL:CG1	2.66	0.60
2:A4:808:GLN:NE2	3:A6:383:PRO:HG3	2.09	0.60
2:A4:859:GLN:CG	3:A6:131:PRO:CG	2.79	0.60
2:A4:954:ILE:CB	4:B6:345:LYS:C	2.67	0.60
2:A4:954:ILE:CG1	4:B6:346:LEU:H	2.03	0.60
2:A4:974:PRO:CA	6:D3:499:LEU:HG	2.31	0.60
2:A4:985:ALA:CB	6:D3:500:LYS:CA	2.69	0.60
3:A5:178:GLY:O	5:C2:740:ARG:NH2	2.34	0.60
3:A5:785:ILE:CD1	3:A5:825:ARG:HG2	2.31	0.60
3:A5:1101:GLN:CD	11:I5:33:THR:HG21	2.17	0.60
3:A6:1416:ARG:HD2	28:Z4:999:CYS:CB	2.31	0.60
8:F1:1091:SER:HB3	17:O2:241:SER:C	2.19	0.60
9:G1:258:LYS:N	17:O2:253:LEU:N	2.47	0.60
11:I1:841:PHE:CB	15:M1:588:MET:HB2	2.16	0.60
11:I1:1061:ASP:OD2	17:O1:278:GLU:HB3	2.01	0.60
11:I1:1104:LEU:HD13	16:N1:433:GLU:CB	2.31	0.60
11:I2:841:PHE:HB3	15:M3:588:MET:CA	2.21	0.60
11:I2:950:LEU:HB3	16:N3:406:HIS:CG	2.35	0.60
11:I2:955:LYS:CB	16:N3:403:VAL:HG23	2.31	0.60
11:I2:997:SER:CB	17:O3:270:THR:CG2	2.80	0.60
11:I2:1054:ILE:N	17:O3:281:ALA:CA	2.64	0.60
11:I3:527:THR:O	11:I3:531:ASN:ND2	2.34	0.60
11:I3:988:GLU:N	11:I3:988:GLU:OE1	2.34	0.60
11:I4:408:PRO:O	11:I4:409:SER:OG	2.16	0.60
11:I4:988:GLU:N	11:I4:988:GLU:OE1	2.34	0.60
11:I4:1644:ARG:HD3	12:J4:275:PHE:CZ	2.35	0.60
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.60
1:A1:1202:GLU:O	2:A2:732:GLN:CA	2.38	0.60
1:A3:1086:LYS:CG	6:D3:798:MET:HA	2.30	0.60
1:A3:1162:ASN:O	3:A6:644:ALA:O	2.19	0.60
1:A3:1193:SER:CB	3:A6:610:THR:O	2.49	0.60
1:A3:1228:TYR:C	3:A6:574:ARG:CB	2.70	0.60
1:A3:1241:ARG:NH2	3:A6:596:ARG:HE	2.00	0.60
1:A3:1271:ILE:CG2	3:A6:553:ASP:OD2	2.50	0.60
1:A3:1333:ARG:HA	6:D3:637:LYS:HD3	1.82	0.60
2:A4:80:LYS:HG2	3:A6:386:ALA:CA	2.19	0.60
2:A4:91:LEU:HD13	3:A6:104:PRO:HG2	1.80	0.60
2:A4:577:ASP:N	3:A6:453:SER:O	2.34	0.60
2:A4:647:GLU:H	3:A6:503:GLN:HB2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:670:SER:HB3	3:A6:542:LEU:CD2	2.26	0.60
2:A4:759:ALA:HB3	3:A6:388:GLU:HA	1.83	0.60
2:A4:808:GLN:CB	3:A6:320:VAL:H	2.00	0.60
2:A4:813:GLU:CD	3:A6:191:LEU:H	2.03	0.60
2:A4:825:ARG:CZ	3:A6:564:ASN:ND2	2.62	0.60
2:A4:852:ASP:OD2	3:A6:155:TYR:CA	2.49	0.60
2:A4:852:ASP:OD1	3:A6:169:TYR:CB	2.42	0.60
2:A4:861:GLN:CA	6:D3:607:PRO:HG3	2.26	0.60
2:A4:867:GLU:CB	6:D3:605:THR:HG21	2.26	0.60
2:A4:874:VAL:CG1	6:D3:567:LEU:O	2.49	0.60
2:A4:891:GLY:HA3	3:A6:231:SER:OG	2.02	0.60
3:A5:994:VAL:O	11:I5:61:LYS:HB2	2.02	0.60
3:A6:443:ILE:H	6:D3:691:LEU:HD13	1.60	0.60
3:A6:1367:THR:CG2	28:Z4:872:TYR:C	2.68	0.60
6:D3:270:THR:HG23	6:D3:296:PHE:CD2	2.37	0.60
8:F1:1205:TRP:HE1	17:O2:251:ILE:CB	2.13	0.60
9:G2:263:MET:HE2	17:O4:263:GLN:OE1	2.00	0.60
11:I1:873:ILE:HA	17:O1:251:ILE:HG23	1.82	0.60
11:I1:980:ILE:CA	15:M1:618:GLN:HA	2.32	0.60
11:I1:984:GLU:C	15:M1:613:ASP:C	2.60	0.60
11:I1:1037:THR:CA	15:M1:624:ASN:HD21	1.81	0.60
11:I2:962:ILE:CG1	15:M3:600:ASN:ND2	2.64	0.60
11:I2:968:PRO:HG2	20:R3:149:ARG:CZ	2.31	0.60
11:I2:1114:VAL:HG21	16:N3:436:ALA:N	2.16	0.60
11:I5:1455:ARG:O	11:I5:1459:ASN:ND2	2.33	0.60
21:S1:671:ALA:CB	21:S2:1146:ALA:HB2	2.25	0.60
21:S2:868:ASP:O	21:S2:870:ASP:N	2.35	0.60
22:T2:875:LEU:HD13	22:T2:919:LEU:HA	1.83	0.60
26:X3:148:MET:HE3	26:X3:152:LEU:HG	1.83	0.60
26:X4:265:ILE:HG21	26:X4:289:ILE:HD11	1.81	0.60
1:A1:1070:ASP:OD2	11:I1:1238:LYS:C	2.39	0.60
2:A2:909:LYS:O	6:D1:555:ARG:HD2	1.62	0.60
2:A2:1126:VAL:CB	3:A5:135:PHE:HB3	2.32	0.60
2:A2:1142:PHE:CD2	3:A5:169:TYR:HB2	2.36	0.60
2:A2:1143:LEU:CA	3:A5:129:ASN:HB2	2.31	0.60
2:A2:1243:SER:O	2:A2:1245:ASP:N	2.35	0.60
1:A3:1162:ASN:HD21	3:A6:732:GLN:CD	2.05	0.60
1:A3:1261:TYR:HE1	3:A6:621:GLN:HB3	1.49	0.60
1:A3:1270:SER:CB	3:A6:553:ASP:HB3	2.31	0.60
1:A3:1321:MET:HE1	3:A6:571:ARG:HH21	1.45	0.60
1:A3:1325:MET:HE3	3:A6:126:ARG:CZ	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:540:GLN:N	3:A6:360:ARG:N	2.38	0.60
2:A4:574:ARG:NH2	3:A6:455:LEU:HA	2.01	0.60
2:A4:702:SER:HB2	3:A6:379:VAL:HG11	0.62	0.60
2:A4:720:LEU:HD13	3:A6:494:PRO:CA	2.31	0.60
3:A5:1310:ARG:HE	28:Z2:827:GLN:C	2.05	0.60
3:A5:1399:ARG:CG	28:Z2:912:ASP:CB	2.80	0.60
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CG	2.13	0.60
6:D4:270:THR:HG23	6:D4:296:PHE:CD2	2.36	0.60
6:D7:270:THR:HG23	6:D7:296:PHE:CD2	2.36	0.60
9:G1:263:MET:HE2	16:N2:411:GLN:HG2	1.84	0.60
11:I1:837:MET:HE3	17:O1:243:LEU:H	1.57	0.60
11:I1:889:THR:O	17:O1:239:GLN:NE2	2.35	0.60
11:I1:957:SER:O	20:R1:168:LEU:CD1	2.50	0.60
11:I1:1032:THR:C	15:M1:627:LEU:HD21	1.97	0.60
11:I1:1043:LEU:CD2	16:N1:430:ARG:CB	2.79	0.60
11:I2:840:LEU:HD22	17:O3:247:TRP:HB2	1.77	0.60
11:I2:942:HIS:ND1	17:O3:259:ASP:OD1	2.35	0.60
11:I2:945:LEU:CA	17:O3:255:GLY:O	2.50	0.60
11:I2:957:SER:HA	20:R3:168:LEU:N	2.13	0.60
11:I2:1037:THR:OG1	20:R3:169:GLY:HA2	1.96	0.60
11:I2:1052:LEU:CD2	16:N3:434:LEU:CD1	2.76	0.60
11:I2:1052:LEU:N	17:O3:286:ILE:HB	2.16	0.60
11:I2:1110:SER:OG	16:N3:438:LEU:CD1	2.45	0.60
11:I3:1273:GLU:HB2	26:X1:527:VAL:HG23	1.84	0.60
18:P1:278:ASN:HA	18:P4:322:LYS:O	2.01	0.60
21:S1:868:ASP:O	21:S1:870:ASP:N	2.35	0.60
24:V3:297:LEU:HD23	24:V3:300:LEU:HD12	1.84	0.60
26:X1:148:MET:HE3	26:X1:152:LEU:HG	1.83	0.60
26:X2:240:PHE:O	26:X2:241:GLU:HG3	2.02	0.60
28:Z2:609:GLY:O	28:Z2:613:ILE:HG22	2.02	0.60
2:A2:1057:PHE:CD2	2:A2:1096:ILE:HD13	2.37	0.60
1:A3:1150:LEU:HD22	3:A6:591:ASP:H	1.65	0.60
2:A4:826:ASN:O	2:A4:860:GLU:HG3	2.02	0.60
2:A4:917:LEU:HD12	3:A6:175:GLU:OE1	2.01	0.60
2:A4:981:PRO:CD	6:D3:473:GLU:OE2	2.49	0.60
8:F1:1138:TRP:HB3	17:O2:244:GLU:OE1	2.01	0.60
9:G2:258:LYS:C	17:O4:259:ASP:CG	2.60	0.60
11:I1:949:CYS:C	16:N1:403:VAL:HG12	2.21	0.60
11:I1:1038:ILE:CD1	20:R1:167:GLN:CD	2.69	0.60
11:I1:1043:LEU:CG	20:R1:170:LEU:HD22	2.31	0.60
11:I1:1046:HIS:H	17:O1:283:ALA:HB3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:878:GLN:HA	17:O3:249:ARG:O	2.02	0.60
11:I2:948:ALA:CA	17:O3:253:LEU:HA	2.31	0.60
11:I2:1020:ALA:CB	16:N3:409:ALA:H	2.00	0.60
11:I2:1030:ARG:HH11	20:R3:175:GLN:CG	2.14	0.60
11:I2:1051:LYS:CE	17:O3:289:ASP:H	2.13	0.60
11:I2:1109:LEU:HD22	17:O3:290:TYR:CE2	2.33	0.60
11:I3:1275:SER:CB	26:X1:508:LEU:CD1	2.77	0.60
11:I4:819:MET:HE2	26:X3:502:MET:HA	1.83	0.60
11:I5:1255:HIS:ND1	11:I5:1255:HIS:O	2.35	0.60
21:S3:868:ASP:O	21:S3:870:ASP:N	2.35	0.60
21:S4:868:ASP:O	21:S4:870:ASP:N	2.35	0.60
2:A2:826:ASN:O	2:A2:860:GLU:HG3	2.02	0.60
2:A2:908:LEU:HD21	6:D1:602:THR:N	2.11	0.60
2:A2:1138:GLU:CB	3:A5:147:LEU:CD2	2.77	0.60
1:A3:1188:ASN:CA	3:A6:645:PHE:HB3	2.31	0.60
1:A3:1243:SER:H	3:A6:585:ASN:CA	2.15	0.60
2:A4:85:VAL:HG13	3:A6:405:PHE:CG	2.30	0.60
2:A4:555:VAL:CG2	3:A6:437:ARG:HH21	1.73	0.60
2:A4:690:ALA:CB	3:A6:398:THR:CA	2.76	0.60
2:A4:782:VAL:HG23	6:D3:677:GLN:HA	1.48	0.60
2:A4:870:HIS:CE1	6:D3:566:PHE:HA	2.37	0.60
2:A4:873:PRO:HD2	6:D3:569:CYS:CA	2.31	0.60
2:A4:988:ARG:HH22	6:D3:498:GLU:C	2.05	0.60
3:A5:996:ASN:O	11:I5:61:LYS:N	2.17	0.60
3:A5:1094:ILE:HG12	11:I5:9:ALA:HA	1.83	0.60
6:D5:270:THR:HG23	6:D5:296:PHE:CD2	2.37	0.60
11:I1:883:ALA:HB1	17:O1:243:LEU:O	1.77	0.60
11:I1:930:LEU:HD13	15:M1:598:GLU:HG2	1.79	0.60
11:I1:950:LEU:H	16:N1:407:ALA:HB2	1.67	0.60
11:I1:984:GLU:HA	15:M1:614:ASP:N	2.17	0.60
11:I1:1057:LYS:N	17:O1:278:GLU:HB2	2.16	0.60
11:I2:895:ARG:H	17:O3:239:GLN:HG3	1.66	0.60
11:I2:961:ARG:HH21	16:N3:388:LYS:C	1.98	0.60
11:I3:1271:GLU:CD	26:X1:504:ILE:CD1	2.70	0.60
21:S1:176:MET:HE2	21:S1:212:LEU:CD1	2.30	0.60
21:S2:932:HIS:O	21:S2:933:GLU:HB2	2.01	0.60
23:U4:207:SER:HA	23:U4:210:MET:HE3	1.82	0.60
26:X1:240:PHE:O	26:X1:241:GLU:HG3	2.01	0.60
26:X4:536:LYS:O	26:X4:540:THR:OG1	2.20	0.60
28:Z4:245:ILE:HB	28:Z4:255:GLN:HB2	1.84	0.60
1:A1:785:ILE:CD1	1:A1:825:ARG:HG2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1192:GLN:CB	3:A6:645:PHE:CE2	2.66	0.60
1:A3:1230:TYR:O	3:A6:579:PHE:HB2	2.02	0.60
1:A3:1311:ARG:NE	3:A6:715:GLU:HG3	2.16	0.60
2:A4:542:LEU:HB2	3:A6:360:ARG:HG2	1.83	0.60
2:A4:574:ARG:NH2	3:A6:108:SER:OG	2.35	0.60
2:A4:607:ARG:CG	3:A6:505:ALA:CB	2.72	0.60
2:A4:685:ARG:NH2	3:A6:432:VAL:HG11	2.08	0.60
2:A4:859:GLN:N	6:D3:606:LYS:CE	2.60	0.60
2:A4:867:GLU:CG	6:D3:605:THR:HB	2.25	0.60
3:A5:146:LYS:HB3	5:C2:745:SER:C	2.21	0.60
3:A5:164:LEU:HB3	5:C2:742:ASP:OD2	1.95	0.60
3:A5:171:HIS:NE2	5:C2:732:LYS:O	2.33	0.60
3:A5:1313:LYS:CA	28:Z2:830:LEU:O	2.49	0.60
6:D1:649:VAL:O	6:D1:649:VAL:HG12	2.00	0.60
11:I1:408:PRO:O	11:I1:409:SER:OG	2.16	0.60
11:I1:884:LEU:CD2	16:N1:396:ILE:CD1	2.80	0.60
11:I1:1032:THR:CA	20:R1:176:ARG:C	2.69	0.60
11:I1:1487:ASP:OD1	11:I1:1488:THR:N	2.35	0.60
11:I2:421:SER:O	11:I2:425:HIS:ND1	2.33	0.60
11:I2:899:LEU:N	17:O3:235:ASN:HB2	2.17	0.60
11:I2:934:LEU:CB	15:M3:601:ASP:O	2.46	0.60
11:I2:995:SER:C	17:O3:267:ALA:HB3	2.21	0.60
11:I2:1041:GLN:NE2	15:M3:614:ASP:C	2.55	0.60
11:I4:527:THR:O	11:I4:531:ASN:ND2	2.34	0.60
17:O3:101:ASN:CA	18:P3:326:GLN:HE21	2.10	0.60
2:A2:1135:ARG:HD3	3:A5:147:LEU:HD23	1.84	0.59
2:A2:1150:LEU:HD11	5:C2:731:LYS:HG3	1.84	0.59
2:A4:551:GLN:HB2	3:A6:455:LEU:CA	2.32	0.59
2:A4:555:VAL:HA	3:A6:456:ASP:OD1	2.01	0.59
2:A4:726:ALA:CA	3:A6:575:LEU:HD22	2.31	0.59
2:A4:771:ILE:O	3:A6:479:VAL:HG22	2.00	0.59
2:A4:796:GLN:CB	3:A6:249:SER:HB3	2.31	0.59
2:A4:854:VAL:HG13	3:A6:174:PRO:CD	2.32	0.59
2:A4:859:GLN:CG	3:A6:131:PRO:HG2	2.32	0.59
2:A4:955:CYS:SG	4:B6:345:LYS:CB	2.89	0.59
2:A4:980:ARG:CD	6:D3:526:LEU:N	2.65	0.59
2:A4:1020:ILE:HA	2:A4:1023:ILE:CD1	2.32	0.59
2:A4:1023:ILE:O	2:A4:1024:ASP:CB	2.48	0.59
3:A6:1390:LEU:C	28:Z4:910:GLN:O	2.17	0.59
6:D3:743:HIS:NE2	11:I2:1528:ARG:HD2	2.16	0.59
11:I1:881:ILE:HG13	17:O1:249:ARG:C	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:898:VAL:HG21	17:O1:237:PRO:HD3	1.84	0.59
11:I1:921:GLU:CB	16:N1:392:THR:HB	2.29	0.59
11:I1:926:SER:N	15:M1:593:ALA:HB1	2.16	0.59
11:I1:934:LEU:HD11	15:M1:599:ILE:HA	1.84	0.59
11:I1:957:SER:O	20:R1:168:LEU:HG	1.98	0.59
11:I1:963:LEU:C	20:R1:165:SER:CB	2.71	0.59
11:I1:1051:LYS:NZ	17:O1:289:ASP:H	1.99	0.59
11:I1:1109:LEU:CA	16:N1:442:GLU:H	2.14	0.59
11:I2:896:PRO:CG	17:O3:233:THR:HA	2.31	0.59
11:I2:981:VAL:H	20:R3:147:LEU:HD11	0.77	0.59
11:I2:1039:ALA:HB2	20:R3:170:LEU:HB2	1.80	0.59
11:I3:1277:LEU:CD2	26:X1:519:ILE:CA	2.76	0.59
11:I3:1487:ASP:OD1	11:I3:1488:THR:N	2.35	0.59
11:I5:1487:ASP:OD1	11:I5:1488:THR:N	2.35	0.59
22:T2:813:VAL:O	22:T2:817:MET:HG2	2.02	0.59
22:T3:842:ARG:O	22:T3:846:MET:HG3	2.02	0.59
22:T4:813:VAL:O	22:T4:817:MET:HG2	2.02	0.59
24:V3:525:ASP:O	24:V3:528:LEU:HB2	2.02	0.59
1:A3:1195:PHE:CE2	3:A6:677:ALA:HB3	2.37	0.59
1:A3:1226:LEU:HB3	3:A6:551:GLN:HG3	1.84	0.59
1:A3:1257:VAL:CA	3:A6:638:GLU:OE2	2.48	0.59
2:A4:552:PHE:N	3:A6:107:SER:C	2.50	0.59
2:A4:635:ARG:HH22	3:A6:602:ILE:N	2.00	0.59
2:A4:685:ARG:HH12	3:A6:362:PHE:HD1	1.48	0.59
2:A4:691:LYS:NZ	3:A6:316:ARG:HB2	2.16	0.59
2:A4:792:VAL:HG12	3:A6:188:ALA:CB	2.32	0.59
2:A4:973:GLU:N	6:D3:205:LEU:HB3	2.16	0.59
3:A5:189:VAL:CG2	5:C2:742:ASP:CB	2.71	0.59
8:F1:1137:GLN:CD	17:O2:249:ARG:N	2.13	0.59
11:I1:834:SER:N	17:O1:237:PRO:HB3	2.14	0.59
11:I1:939:ASN:C	17:O1:265:ASN:HB2	2.16	0.59
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD21	2.16	0.59
11:I2:884:LEU:C	16:N3:397:GLU:CG	2.69	0.59
11:I2:1028:CYS:HA	20:R3:168:LEU:HB3	1.84	0.59
11:I3:1277:LEU:CD2	26:X1:519:ILE:N	2.65	0.59
17:O1:103:VAL:HG13	18:P1:326:GLN:HE22	1.60	0.59
21:S1:932:HIS:O	21:S1:933:GLU:HB2	2.01	0.59
24:V1:297:LEU:HD23	24:V1:300:LEU:HD12	1.84	0.59
2:A2:872:ALA:HB3	6:D1:565:MET:HE1	1.83	0.59
2:A2:980:ARG:NE	6:D1:526:LEU:N	2.51	0.59
2:A2:1139:ILE:CG2	3:A5:134:VAL:HB	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1155:ASN:ND2	3:A5:177:ILE:HG12	2.14	0.59
2:A2:1157:TYR:CE1	3:A5:134:VAL:CG2	2.84	0.59
1:A3:1193:SER:CA	3:A6:610:THR:O	2.49	0.59
1:A3:1196:GLU:CD	3:A6:611:ILE:N	2.42	0.59
1:A3:1241:ARG:HD3	3:A6:597:GLU:OE1	1.97	0.59
1:A3:1261:TYR:CD2	3:A6:616:ALA:CA	2.85	0.59
2:A4:87:GLN:CA	3:A6:392:LEU:HA	2.33	0.59
2:A4:611:ILE:HD13	3:A6:507:ALA:H	1.66	0.59
2:A4:643:ALA:HA	3:A6:501:VAL:HG13	1.85	0.59
2:A4:689:LYS:CD	3:A6:381:LEU:CD2	2.74	0.59
2:A4:726:ALA:CA	3:A6:575:LEU:HD13	2.31	0.59
2:A4:792:VAL:CA	3:A6:249:SER:OG	2.45	0.59
2:A4:872:ALA:HB2	6:D3:554:LEU:HD13	1.82	0.59
2:A4:872:ALA:N	2:A4:873:PRO:HD2	2.18	0.59
3:A5:153:ILE:CB	5:C2:739:MET:HE1	2.29	0.59
3:A5:1005:PHE:CD1	11:I5:67:LYS:NZ	2.70	0.59
3:A5:1368:GLN:HB3	28:Z2:841:ALA:HA	0.61	0.59
6:D7:649:VAL:O	6:D7:649:VAL:HG12	2.00	0.59
8:F1:1267:ARG:HG2	17:O2:265:ASN:C	2.13	0.59
11:I1:913:ALA:N	15:M1:584:GLN:CD	2.47	0.59
11:I1:960:SER:HB2	16:N1:395:GLU:CD	2.22	0.59
11:I1:1051:LYS:NZ	17:O1:289:ASP:N	2.50	0.59
11:I1:1607:GLN:CG	11:I2:1739:GLU:CG	2.55	0.59
11:I1:1610:VAL:CG2	11:I2:1673:VAL:CG1	2.70	0.59
11:I2:899:LEU:HD23	17:O3:235:ASN:HB2	1.84	0.59
11:I2:921:GLU:N	11:I2:921:GLU:OE1	2.35	0.59
11:I4:813:ILE:C	26:X3:496:THR:CG2	2.69	0.59
11:I4:1487:ASP:OD1	11:I4:1488:THR:N	2.35	0.59
17:O4:113:PRO:O	18:P4:325:ILE:HG22	2.02	0.59
21:S1:670:ILE:C	21:S2:1145:LYS:CB	2.70	0.59
21:S3:933:GLU:OE2	21:S3:934:HIS:HB3	2.02	0.59
21:S4:933:GLU:OE2	21:S4:934:HIS:HB3	2.02	0.59
22:T1:875:LEU:HD13	22:T1:919:LEU:HA	1.83	0.59
22:T4:696:MET:HE3	22:T4:712:PHE:HB2	1.83	0.59
22:T4:842:ARG:O	22:T4:846:MET:HG3	2.02	0.59
26:X2:534:ILE:O	26:X2:538:ILE:HG12	2.02	0.59
26:X3:536:LYS:O	26:X3:540:THR:OG1	2.20	0.59
28:Z3:596:PHE:CZ	28:Z3:704:SER:HA	2.38	0.59
1:A1:1399:ARG:HB2	2:A2:888:GLN:OE1	2.01	0.59
2:A2:1020:ILE:HA	2:A2:1023:ILE:CD1	2.32	0.59
2:A2:1144:ASP:C	3:A5:129:ASN:HD21	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1154:PHE:HZ	4:B5:342:ARG:HD2	1.59	0.59
2:A2:1163:TYR:OH	3:A5:136:GLU:HB2	2.00	0.59
2:A2:1171:PHE:HZ	4:B5:342:ARG:CD	2.00	0.59
1:A3:1257:VAL:HG11	3:A6:618:ALA:O	2.02	0.59
1:A3:1258:VAL:H	3:A6:623:SER:CB	2.15	0.59
1:A3:1396:GLY:O	3:A6:172:PRO:HG3	1.99	0.59
2:A4:90:GLN:H	3:A6:406:LEU:HA	1.67	0.59
2:A4:617:VAL:HG23	3:A6:509:LYS:NZ	2.17	0.59
2:A4:652:PRO:HD3	3:A6:542:LEU:HD13	1.84	0.59
2:A4:670:SER:OG	3:A6:542:LEU:HD22	1.94	0.59
2:A4:693:VAL:H	3:A6:316:ARG:CZ	2.13	0.59
2:A4:704:THR:O	3:A6:480:VAL:HG13	1.78	0.59
2:A4:705:ILE:HB	3:A6:482:LYS:CA	2.32	0.59
2:A4:706:PRO:HD3	3:A6:482:LYS:HG3	0.61	0.59
2:A4:710:LEU:CD2	3:A6:465:SER:HA	2.31	0.59
2:A4:718:GLU:HB3	3:A6:121:PRO:CB	2.31	0.59
2:A4:852:ASP:CG	3:A6:154:GLY:O	2.39	0.59
2:A4:875:LEU:HB3	6:D3:566:PHE:CA	1.41	0.59
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG2	2.38	0.59
3:A5:1151:THR:HA	5:C5:733:LEU:HD11	1.79	0.59
3:A6:442:ARG:CZ	6:D3:692:LEU:HD21	2.32	0.59
3:A6:523:ASN:ND2	6:D3:635:ALA:HB2	2.16	0.59
6:D6:270:THR:HG23	6:D6:296:PHE:CD2	2.37	0.59
6:D7:530:ARG:O	11:I3:181:GLN:HB3	1.99	0.59
8:F1:1264:ARG:NH1	17:O2:264:ILE:CA	2.64	0.59
9:G2:263:MET:HE3	17:O4:259:ASP:OD2	2.01	0.59
11:I1:880:MET:CB	17:O1:247:TRP:HA	1.93	0.59
11:I1:921:GLU:OE1	11:I1:921:GLU:N	2.35	0.59
11:I1:927:HIS:NE2	15:M1:594:LYS:HB2	2.16	0.59
11:I1:1037:THR:HB	15:M1:624:ASN:HD22	1.64	0.59
11:I1:1066:LEU:O	16:N1:429:GLU:CB	2.47	0.59
11:I2:1046:HIS:H	17:O3:280:GLU:C	2.03	0.59
24:V1:152:ALA:HB1	24:V1:160:LEU:CD1	2.33	0.59
24:V3:152:ALA:HB1	24:V3:160:LEU:CD1	2.33	0.59
28:Z2:91:LYS:NZ	28:Z2:142:ALA:O	2.30	0.59
2:A2:224:PRO:N	6:D1:709:ARG:HH12	2.00	0.59
2:A2:867:GLU:HB2	6:D1:605:THR:HB	1.82	0.59
2:A2:967:GLU:CA	6:D1:202:GLN:OE1	2.41	0.59
2:A2:980:ARG:HG3	6:D1:526:LEU:CA	2.31	0.59
2:A2:1131:ILE:N	3:A5:141:GLY:CA	2.62	0.59
1:A3:1117:ILE:CG1	3:A6:590:SER:OG	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1163:TYR:O	3:A6:648:TYR:CZ	2.52	0.59
1:A3:1192:GLN:OE1	3:A6:649:GLY:HA2	2.03	0.59
1:A3:1257:VAL:HA	3:A6:719:ARG:CZ	2.33	0.59
2:A4:619:CYS:O	3:A6:111:GLU:HB2	2.02	0.59
2:A4:713:ILE:HG23	3:A6:403:ARG:HE	1.66	0.59
2:A4:718:GLU:HG3	3:A6:491:VAL:O	2.03	0.59
2:A4:770:GLY:O	3:A6:469:PHE:HE2	1.82	0.59
2:A4:771:ILE:HD13	3:A6:476:PHE:CE2	2.35	0.59
2:A4:774:VAL:HG11	3:A6:467:LEU:H	0.77	0.59
2:A4:951:GLU:CG	3:A6:234:LEU:N	2.64	0.59
3:A5:178:GLY:N	5:C2:740:ARG:CZ	2.65	0.59
3:A5:1027:HIS:HE1	11:I5:65:LYS:HB2	1.27	0.59
3:A5:1414:PHE:O	28:Z2:962:LYS:N	2.27	0.59
6:D1:270:THR:HG23	6:D1:296:PHE:CD2	2.36	0.59
8:F1:581:PHE:O	8:F1:585:THR:OG1	2.21	0.59
9:G1:256:GLN:N	17:O2:257:ALA:CB	2.59	0.59
9:G1:263:MET:HB3	17:O2:260:LEU:HD13	1.82	0.59
11:I3:1267:LEU:O	26:X1:529:TRP:CD1	2.56	0.59
11:I5:527:THR:O	11:I5:531:ASN:ND2	2.34	0.59
21:S3:678:GLU:CB	21:S4:1143:VAL:H	2.16	0.59
21:S4:932:HIS:O	21:S4:933:GLU:CB	2.51	0.59
21:S4:1083:TRP:CE3	21:S4:1083:TRP:HA	2.38	0.59
21:S4:1119:LEU:C	21:S4:1121:GLU:H	2.04	0.59
26:X3:244:TYR:O	26:X3:248:LEU:HG	2.02	0.59
26:X3:534:ILE:O	26:X3:538:ILE:HG12	2.02	0.59
1:A1:873:PRO:HB3	6:D3:218:LYS:NZ	2.14	0.59
2:A2:1130:ARG:HB2	3:A5:140:ALA:HB1	1.85	0.59
1:A3:1188:ASN:CA	3:A6:645:PHE:CB	2.80	0.59
1:A3:1223:GLU:C	3:A6:496:THR:CG2	2.71	0.59
1:A3:1254:LEU:HD12	3:A6:638:GLU:HG3	0.65	0.59
2:A4:550:VAL:HG23	3:A6:455:LEU:CD2	2.33	0.59
2:A4:554:GLN:N	3:A6:456:ASP:O	2.29	0.59
2:A4:610:THR:CG2	3:A6:507:ALA:CA	2.80	0.59
2:A4:720:LEU:CB	3:A6:495:ASP:N	2.52	0.59
2:A4:769:GLU:C	3:A6:477:PHE:HB2	2.20	0.59
2:A4:773:PHE:HB3	3:A6:469:PHE:CE2	2.37	0.59
2:A4:789:LEU:HA	3:A6:145:THR:O	2.01	0.59
2:A4:803:GLU:O	3:A6:383:PRO:HD3	2.02	0.59
2:A4:915:ILE:C	4:B6:342:ARG:CZ	2.71	0.59
2:A4:952:ARG:CG	4:B6:347:LEU:HD21	2.11	0.59
2:A4:954:ILE:N	4:B6:346:LEU:H	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1395:LYS:CG	28:Z2:870:ILE:CA	2.81	0.59
3:A6:785:ILE:CD1	3:A6:825:ARG:HG2	2.32	0.59
8:F1:230:GLU:OE1	8:F1:230:GLU:N	2.35	0.59
11:I1:838:GLU:N	17:O1:240:GLY:HA3	2.16	0.59
11:I1:911:PRO:HA	15:M1:584:GLN:HE22	1.66	0.59
11:I1:942:HIS:O	17:O1:260:LEU:CA	2.51	0.59
11:I1:947:LEU:HD11	16:N1:411:GLN:CB	2.29	0.59
11:I1:948:ALA:CB	17:O1:252:VAL:O	2.47	0.59
11:I1:1017:VAL:HG11	17:O1:260:LEU:HD21	1.84	0.59
11:I2:945:LEU:CA	17:O3:260:LEU:H	2.14	0.59
11:I2:980:ILE:HG22	15:M3:617:THR:O	2.02	0.59
21:S1:933:GLU:OE2	21:S1:934:HIS:HB3	2.02	0.59
25:W4:205:ASP:HB3	25:W4:227:GLN:HB3	1.85	0.59
26:X1:162:VAL:O	26:X1:166:ASP:HB3	2.03	0.59
26:X4:244:TYR:O	26:X4:248:LEU:HG	2.02	0.59
1:A3:1120:ASP:HB3	3:A6:596:ARG:N	1.89	0.59
1:A3:1231:VAL:C	3:A6:579:PHE:HB3	2.20	0.59
2:A4:537:ALA:HB3	3:A6:365:MET:HB2	1.85	0.59
2:A4:701:ILE:CD1	3:A6:466:ALA:HB3	2.16	0.59
2:A4:727:ASN:N	3:A6:548:LEU:HD21	1.66	0.59
2:A4:802:TYR:HB2	3:A6:397:LEU:HB3	1.84	0.59
2:A4:879:LEU:HD13	6:D3:564:ASN:ND2	2.16	0.59
2:A4:973:GLU:HG2	6:D3:192:TYR:HE2	1.67	0.59
2:A4:985:ALA:CB	6:D3:497:PHE:CA	2.80	0.59
2:A4:988:ARG:NH2	6:D3:498:GLU:O	2.35	0.59
2:A4:1243:SER:O	2:A4:1245:ASP:N	2.35	0.59
6:D7:176:SER:HB3	11:I3:95:LYS:CE	2.33	0.59
8:F1:982:PRO:HB2	11:I1:1388:GLU:CG	2.31	0.59
11:I1:930:LEU:HD13	15:M1:598:GLU:CG	1.99	0.59
11:I1:939:ASN:O	17:O1:265:ASN:N	2.35	0.59
11:I1:960:SER:CB	16:N1:395:GLU:CD	2.70	0.59
11:I1:980:ILE:HG12	15:M1:621:ARG:CB	2.33	0.59
11:I1:1013:GLU:C	16:N1:411:GLN:CD	2.40	0.59
11:I2:840:LEU:HB3	17:O3:247:TRP:NE1	2.15	0.59
11:I2:1037:THR:CB	15:M3:624:ASN:HD21	2.14	0.59
21:S1:1083:TRP:HA	21:S1:1083:TRP:CE3	2.38	0.59
22:T1:813:VAL:O	22:T1:817:MET:HG2	2.02	0.59
23:U1:13:THR:O	23:U1:17:ASP:N	2.24	0.59
23:U3:211:ILE:HG23	24:V3:321:VAL:HG11	1.85	0.59
24:V2:152:ALA:HB1	24:V2:160:LEU:CD1	2.33	0.59
24:V4:525:ASP:O	24:V4:528:LEU:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W3:205:ASP:HB3	25:W3:227:GLN:HB3	1.85	0.59
28:Z1:596:PHE:CZ	28:Z1:704:SER:HA	2.38	0.59
1:A3:1113:GLU:O	3:A6:590:SER:OG	2.20	0.59
1:A3:1236:GLN:OE1	3:A6:578:ILE:CG1	2.50	0.59
1:A3:1267:GLN:OE1	3:A6:551:GLN:N	2.36	0.59
2:A4:80:LYS:HG2	3:A6:386:ALA:CB	2.32	0.59
2:A4:679:TYR:CE2	3:A6:511:PHE:O	2.48	0.59
2:A4:778:PHE:O	3:A6:487:ASP:OD1	2.20	0.59
2:A4:779:ASP:O	6:D3:679:ILE:CB	2.51	0.59
2:A4:878:LEU:HB2	6:D3:567:LEU:HB3	1.85	0.59
2:A4:885:LEU:HD13	3:A6:172:PRO:O	2.03	0.59
2:A4:904:GLN:HG2	6:D3:603:SER:CB	2.31	0.59
2:A4:917:LEU:CG	4:B6:342:ARG:HD2	2.32	0.59
2:A4:1092:ASN:HD21	6:D4:708:ASP:HB2	1.68	0.59
3:A5:153:ILE:CB	5:C2:739:MET:CE	2.80	0.59
3:A6:520:GLU:HG2	6:D3:639:LEU:HB2	1.85	0.59
3:A6:1370:ALA:CB	28:Z4:870:ILE:C	2.71	0.59
8:F1:197:ASP:OD1	8:F1:295:GLN:NE2	2.36	0.59
8:F2:230:GLU:OE1	8:F2:230:GLU:N	2.35	0.59
11:I1:1056:PRO:N	17:O1:278:GLU:CG	2.47	0.59
11:I1:1668:HIS:C	11:I2:1664:PHE:CE2	2.75	0.59
11:I2:797:LEU:CD2	17:O3:245:GLU:CA	2.81	0.59
11:I2:883:ALA:HA	17:O3:242:ARG:O	2.03	0.59
11:I2:945:LEU:HA	17:O3:255:GLY:O	2.02	0.59
11:I2:1255:HIS:ND1	11:I2:1255:HIS:O	2.35	0.59
11:I2:1487:ASP:OD1	11:I2:1488:THR:N	2.35	0.59
11:I3:1280:PRO:CG	26:X1:539:TYR:HE2	2.16	0.59
11:I5:921:GLU:N	11:I5:921:GLU:OE1	2.35	0.59
23:U4:211:ILE:HG23	24:V4:321:VAL:HG11	1.85	0.59
24:V1:525:ASP:O	24:V1:528:LEU:HB2	2.02	0.59
24:V2:297:LEU:HD23	24:V2:300:LEU:HD12	1.84	0.59
24:V4:152:ALA:HB1	24:V4:160:LEU:CD1	2.32	0.59
24:V4:426:TYR:O	24:V4:464:ARG:NH2	2.36	0.59
26:X2:258:LEU:HD22	26:X2:292:LEU:HD22	1.85	0.59
28:Z2:829:SER:HA	28:Z2:841:ALA:HB1	1.81	0.59
2:A2:986:THR:OG1	6:D1:497:PHE:HZ	1.80	0.59
1:A3:1169:LEU:O	3:A6:589:ALA:C	2.41	0.59
1:A3:1271:ILE:HG23	3:A6:553:ASP:HB2	0.60	0.59
2:A4:85:VAL:HG11	3:A6:395:MET:CA	2.33	0.59
2:A4:173:ASN:ND2	6:D3:762:ARG:CA	2.66	0.59
2:A4:607:ARG:HD3	3:A6:505:ALA:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:615:LEU:CB	3:A6:509:LYS:H	2.15	0.59
2:A4:724:LEU:HD21	3:A6:499:ILE:HD12	1.83	0.59
2:A4:975:GLU:CG	6:D3:499:LEU:CB	2.80	0.59
2:A4:1057:PHE:CD2	2:A4:1096:ILE:HD13	2.37	0.59
3:A5:1368:GLN:HB3	28:Z2:841:ALA:CB	2.31	0.59
3:A5:1381:ALA:CB	28:Z2:810:ASP:HA	2.33	0.59
3:A6:1364:GLN:CB	28:Z4:876:LEU:O	2.50	0.59
11:I1:884:LEU:CD2	17:O1:246:LEU:HD11	2.05	0.59
11:I1:1048:GLU:HA	20:R1:143:PHE:CD1	2.36	0.59
11:I2:877:ILE:CB	17:O3:251:ILE:O	2.32	0.59
11:I2:884:LEU:HD12	16:N3:400:LEU:CD2	2.33	0.59
21:S1:671:ALA:CB	21:S2:1146:ALA:CB	2.80	0.59
21:S2:933:GLU:OE2	21:S2:934:HIS:HB3	2.02	0.59
28:Z1:609:GLY:O	28:Z1:613:ILE:HG22	2.02	0.59
28:Z4:609:GLY:O	28:Z4:613:ILE:HG22	2.02	0.59
2:A2:864:ARG:NH2	6:D1:634:ASN:HB2	2.18	0.59
2:A2:980:ARG:CZ	6:D1:524:ARG:O	2.51	0.59
2:A2:1131:ILE:C	3:A5:141:GLY:N	2.56	0.59
1:A3:1088:ASN:C	6:D3:808:ASN:ND2	2.55	0.59
1:A3:1130:ARG:HB3	3:A6:651:GLN:HG2	1.85	0.59
1:A3:1188:ASN:CB	3:A6:645:PHE:CD1	2.83	0.59
1:A3:1193:SER:N	3:A6:615:LEU:H	2.01	0.59
1:A3:1201:ARG:CG	2:A4:735:ALA:N	2.66	0.59
1:A3:1224:PRO:CA	2:A4:731:ILE:CD1	2.54	0.59
1:A3:1235:ILE:C	3:A6:583:LEU:H	2.06	0.59
1:A3:1236:GLN:H	3:A6:581:LYS:N	1.91	0.59
1:A3:1270:SER:C	3:A6:553:ASP:HB3	2.23	0.59
2:A4:171:HIS:NE2	6:D3:708:ASP:CG	2.52	0.59
2:A4:613:ALA:O	3:A6:511:PHE:HZ	1.84	0.59
2:A4:705:ILE:N	3:A6:464:PRO:HD2	2.09	0.59
2:A4:722:ASN:N	3:A6:572:ARG:NH2	2.21	0.59
2:A4:735:ALA:N	3:A6:92:ASP:HB3	2.18	0.59
2:A4:779:ASP:HA	3:A6:487:ASP:H	1.68	0.59
2:A4:780:GLU:HG2	6:D3:679:ILE:HG12	0.77	0.59
2:A4:856:PHE:CA	3:A6:167:TRP:NE1	2.66	0.59
2:A4:880:ALA:H	6:D3:564:ASN:HB2	1.67	0.59
3:A5:166:LEU:HB2	5:C2:740:ARG:HD2	1.84	0.59
3:A5:1378:GLY:CA	28:Z2:812:LEU:HA	2.33	0.59
11:I1:834:SER:N	17:O1:237:PRO:O	2.36	0.59
11:I1:1047:CYS:O	20:R1:143:PHE:CZ	2.54	0.59
11:I1:1543:LEU:CD1	11:I2:1677:LYS:CE	2.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:978:LYS:HE2	20:R3:154:ALA:H	1.67	0.59
11:I2:1041:GLN:O	17:O3:275:LEU:CD1	2.51	0.59
11:I2:1065:SER:HA	17:O3:274:GLY:CA	2.33	0.59
11:I2:1067:PHE:N	16:N3:430:ARG:HG3	2.16	0.59
11:I5:988:GLU:N	11:I5:988:GLU:OE1	2.34	0.59
17:O3:147:ALA:C	18:P3:328:PRO:CB	2.71	0.59
22:T2:696:MET:HE3	22:T2:712:PHE:HB2	1.84	0.59
22:T3:813:VAL:O	22:T3:817:MET:HG2	2.02	0.59
22:T4:875:LEU:HD13	22:T4:919:LEU:HA	1.83	0.59
24:V2:433:GLU:OE1	24:V2:467:SER:OG	2.20	0.59
24:V3:426:TYR:O	24:V3:464:ARG:NH2	2.36	0.59
26:X3:162:VAL:O	26:X3:166:ASP:HB3	2.03	0.59
28:Z3:609:GLY:O	28:Z3:613:ILE:HG22	2.02	0.59
1:A1:868:GLN:O	6:D3:277:ASN:HB3	2.01	0.58
1:A1:873:PRO:HG3	6:D3:218:LYS:HZ3	1.65	0.58
2:A2:866:SER:C	6:D1:598:ILE:CG2	2.59	0.58
2:A2:1139:ILE:CG1	3:A5:130:ILE:HG21	2.01	0.58
2:A2:1142:PHE:HD1	3:A5:130:ILE:HG13	1.67	0.58
2:A2:1161:ALA:HA	3:A5:165:PHE:CZ	2.36	0.58
1:A3:1227:PRO:HD2	3:A6:551:GLN:N	2.08	0.58
1:A3:1263:ILE:CG2	3:A6:715:GLU:HB2	2.33	0.58
2:A4:669:LEU:C	3:A6:542:LEU:HD11	2.22	0.58
2:A4:671:SER:HB2	3:A6:505:ALA:CB	2.33	0.58
2:A4:672:ARG:CG	3:A6:96:PRO:CG	0.88	0.58
2:A4:778:PHE:H	3:A6:481:ARG:HH11	0.62	0.58
2:A4:891:GLY:O	3:A6:232:LEU:C	2.41	0.58
2:A4:891:GLY:C	3:A6:232:LEU:N	2.44	0.58
2:A4:908:LEU:HD21	6:D3:601:PHE:HB2	1.83	0.58
2:A4:978:ASP:N	6:D3:492:VAL:HG12	2.16	0.58
2:A4:1054:SER:HB3	6:D4:762:ARG:CZ	2.32	0.58
3:A5:1094:ILE:HG21	11:I5:4:LEU:HB3	1.84	0.58
6:D3:738:SER:OG	6:D3:740:GLU:OE1	2.21	0.58
11:I1:920:PHE:H	16:N1:393:ILE:CG1	2.16	0.58
11:I1:950:LEU:CG	15:M1:606:LEU:HD21	2.32	0.58
11:I1:957:SER:HB2	20:R1:168:LEU:HA	1.83	0.58
11:I1:1066:LEU:CA	16:N1:430:ARG:CD	2.81	0.58
11:I1:1109:LEU:HB3	16:N1:437:VAL:O	2.02	0.58
11:I1:1363:GLU:OE1	11:I1:1366:ARG:NH2	2.36	0.58
11:I2:833:PHE:CZ	17:O3:245:GLU:OE1	2.55	0.58
11:I2:896:PRO:O	17:O3:232:LYS:CB	2.47	0.58
11:I2:922:ASP:OD1	15:M3:593:ALA:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:948:ALA:HB3	17:O3:256:TYR:CA	2.33	0.58
11:I2:957:SER:N	20:R3:167:GLN:O	2.35	0.58
11:I3:1255:HIS:ND1	11:I3:1255:HIS:O	2.35	0.58
23:U2:71:GLU:OE1	23:U2:75:TRP:NE1	2.36	0.58
24:V4:297:LEU:HD23	24:V4:300:LEU:HD12	1.84	0.58
25:W1:205:ASP:HB3	25:W1:227:GLN:HB3	1.85	0.58
26:X1:258:LEU:HD22	26:X1:292:LEU:HD22	1.85	0.58
28:Z3:245:ILE:HB	28:Z3:255:GLN:HB2	1.84	0.58
2:A2:226:PRO:O	6:D1:709:ARG:O	2.21	0.58
2:A2:868:GLN:O	6:D1:598:ILE:CB	2.47	0.58
2:A2:868:GLN:CA	6:D1:598:ILE:HD13	2.33	0.58
2:A2:980:ARG:CZ	6:D1:503:LEU:CB	2.70	0.58
1:A3:1083:SER:HB2	6:D3:798:MET:CE	1.11	0.58
1:A3:1165:ASP:OD1	3:A6:598:VAL:HG21	1.08	0.58
1:A3:1201:ARG:O	3:A6:546:ASN:ND2	2.36	0.58
1:A3:1231:VAL:HG12	3:A6:617:VAL:HG22	1.82	0.58
1:A3:1235:ILE:HG12	3:A6:617:VAL:HG11	1.84	0.58
1:A3:1239:ALA:CA	3:A6:584:GLY:N	2.64	0.58
1:A3:1285:LEU:CD1	3:A6:581:LYS:CB	2.73	0.58
1:A3:1285:LEU:CD1	3:A6:581:LYS:CA	2.65	0.58
2:A4:93:ASP:HB2	3:A6:429:LEU:H	1.65	0.58
2:A4:576:VAL:CG1	3:A6:509:LYS:HD3	2.32	0.58
2:A4:691:LYS:HZ2	3:A6:316:ARG:HB2	1.67	0.58
2:A4:722:ASN:HA	3:A6:572:ARG:HH22	1.67	0.58
2:A4:863:GLN:N	3:A6:132:ASP:CB	2.66	0.58
2:A4:947:LYS:HB2	4:B6:352:ALA:HB2	1.84	0.58
2:A4:949:PHE:CA	4:B6:348:PRO:HD2	2.32	0.58
2:A4:1094:ILE:CD1	6:D4:708:ASP:N	2.64	0.58
3:A6:518:GLU:HG3	6:D3:690:TYR:CE2	2.37	0.58
6:D7:738:SER:OG	6:D7:740:GLU:OE1	2.21	0.58
8:F1:1336:GLU:N	8:F1:1336:GLU:OE1	2.36	0.58
9:G2:257:THR:CG2	17:O4:257:ALA:N	2.66	0.58
11:I1:840:LEU:O	15:M1:591:ASP:OD2	2.22	0.58
11:I1:873:ILE:CA	17:O1:251:ILE:HG23	2.33	0.58
11:I1:882:LYS:HG3	17:O1:249:ARG:HB2	1.85	0.58
11:I1:941:GLY:N	17:O1:260:LEU:C	2.46	0.58
11:I1:1055:GLU:HG3	17:O1:277:GLU:O	2.03	0.58
11:I1:1066:LEU:CA	16:N1:430:ARG:CB	2.80	0.58
11:I1:1109:LEU:HD11	17:O1:290:TYR:CE2	1.12	0.58
11:I1:1738:TYR:C	11:I2:1603:ARG:HB3	2.23	0.58
11:I2:834:SER:CB	17:O3:237:PRO:O	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:873:ILE:HG22	17:O3:255:GLY:HA2	1.84	0.58
11:I2:925:LEU:O	20:R3:155:GLU:CA	2.30	0.58
11:I3:1433:THR:HG21	12:J3:270:ARG:CD	2.33	0.58
11:I4:1363:GLU:OE1	11:I4:1366:ARG:NH2	2.36	0.58
22:T2:842:ARG:O	22:T2:846:MET:HG3	2.02	0.58
23:U1:211:ILE:HG23	24:V1:321:VAL:HG11	1.85	0.58
24:V2:525:ASP:O	24:V2:528:LEU:HB2	2.02	0.58
26:X1:534:ILE:O	26:X1:538:ILE:HG12	2.02	0.58
26:X2:163:LYS:HD2	26:X2:172:PHE:CZ	2.38	0.58
26:X4:534:ILE:O	26:X4:538:ILE:HG12	2.02	0.58
28:Z2:596:PHE:CZ	28:Z2:704:SER:HA	2.38	0.58
28:Z4:596:PHE:CZ	28:Z4:704:SER:HA	2.38	0.58
1:A1:868:GLN:O	6:D3:280:GLN:HB3	2.02	0.58
2:A2:226:PRO:HG2	6:D1:707:ILE:O	2.04	0.58
2:A2:908:LEU:CG	6:D1:601:PHE:C	2.59	0.58
2:A2:965:LYS:O	6:D1:196:ILE:HA	2.03	0.58
2:A2:965:LYS:CD	6:D1:196:ILE:O	2.51	0.58
2:A2:968:SER:OG	6:D1:200:HIS:CB	2.40	0.58
1:A3:1183:LEU:HD13	3:A6:635:ARG:CA	2.31	0.58
1:A3:1201:ARG:C	3:A6:546:ASN:ND2	2.52	0.58
1:A3:1257:VAL:HA	3:A6:719:ARG:HH22	1.65	0.58
2:A4:87:GLN:HG3	3:A6:408:ALA:H	1.60	0.58
2:A4:720:LEU:CD2	3:A6:499:ILE:HD12	2.31	0.58
2:A4:757:LEU:CG	3:A6:543:GLY:CA	2.81	0.58
2:A4:781:ARG:HH12	3:A6:522:GLY:CA	2.15	0.58
2:A4:855:THR:CB	3:A6:167:TRP:C	2.71	0.58
2:A4:890:ALA:CB	3:A6:175:GLU:OE2	2.51	0.58
3:A5:1022:SER:O	11:I5:95:LYS:HB2	1.77	0.58
3:A5:1381:ALA:HA	28:Z2:810:ASP:HA	1.85	0.58
3:A6:135:PHE:CD2	6:D3:606:LYS:HB3	2.38	0.58
8:F1:1832:ASN:OD1	8:F1:1833:ARG:N	2.36	0.58
8:F2:197:ASP:OD1	8:F2:295:GLN:NE2	2.36	0.58
11:I1:421:SER:O	11:I1:425:HIS:ND1	2.33	0.58
11:I1:939:ASN:HA	17:O1:264:ILE:C	2.23	0.58
11:I1:954:GLU:O	16:N1:399:HIS:HA	2.02	0.58
11:I1:978:LYS:O	15:M1:621:ARG:HD3	2.03	0.58
11:I1:1639:LEU:HD22	11:I2:1670:GLY:HA2	1.85	0.58
11:I1:1667:GLN:NE2	11:I2:1665:LEU:CG	2.66	0.58
11:I2:877:ILE:HG13	17:O3:254:ARG:HB3	0.60	0.58
11:I2:925:LEU:HD12	15:M3:597:LYS:HE3	1.85	0.58
11:I2:953:LEU:HD11	15:M3:602:MET:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:963:LEU:HD23	20:R3:168:LEU:HD11	1.81	0.58
11:I2:988:GLU:O	15:M3:608:LYS:HG2	2.02	0.58
11:I2:1104:LEU:HB3	16:N3:432:TYR:O	2.03	0.58
21:S2:429:SER:HB2	21:S2:436:SER:CB	2.34	0.58
21:S3:1083:TRP:HA	21:S3:1083:TRP:CE3	2.38	0.58
23:U3:279:TYR:CE1	25:W4:190:ASP:OD1	2.56	0.58
25:W1:217:LEU:HD22	25:W1:218:LEU:H	1.69	0.58
26:X1:453:ASP:HB3	27:Y1:225:GLY:O	2.04	0.58
28:Z1:245:ILE:HB	28:Z1:255:GLN:HB2	1.84	0.58
28:Z4:329:TRP:HB3	28:Z4:355:TRP:HB3	1.85	0.58
2:A2:224:PRO:N	6:D1:709:ARG:NH1	2.50	0.58
2:A2:825:ARG:HH12	6:D1:679:ILE:HD13	1.68	0.58
2:A2:907:SER:HB3	6:D1:600:LYS:C	2.23	0.58
2:A2:978:ASP:O	6:D1:473:GLU:CA	2.50	0.58
2:A2:981:PRO:HG2	6:D1:504:LYS:HG2	1.80	0.58
2:A2:988:ARG:N	6:D1:500:LYS:HZ1	2.01	0.58
2:A2:1142:PHE:CE2	3:A5:169:TYR:HB2	2.39	0.58
1:A3:1182:ILE:HG22	3:A6:639:ASN:CB	2.04	0.58
2:A4:689:LYS:HE2	3:A6:406:LEU:HD13	1.86	0.58
2:A4:773:PHE:CD1	3:A6:469:PHE:CE2	2.90	0.58
2:A4:868:GLN:CG	6:D3:608:ILE:HG21	2.32	0.58
2:A4:911:TYR:OH	6:D3:555:ARG:NH2	2.37	0.58
2:A4:982:THR:HB	6:D3:494:LEU:O	1.97	0.58
3:A5:175:GLU:OE2	5:C2:735:ILE:CG1	2.48	0.58
3:A5:1310:ARG:HE	28:Z2:827:GLN:CB	2.15	0.58
6:D1:738:SER:OG	6:D1:740:GLU:OE1	2.22	0.58
6:D4:738:SER:OG	6:D4:740:GLU:OE1	2.22	0.58
8:F1:856:GLU:N	8:F1:856:GLU:OE1	2.36	0.58
8:F2:171:PHE:O	8:F2:180:ARG:NH2	2.36	0.58
11:I1:846:ILE:HG21	15:M1:591:ASP:O	2.03	0.58
11:I2:527:THR:O	11:I2:531:ASN:ND2	2.34	0.58
21:S1:429:SER:HB2	21:S1:436:SER:CB	2.34	0.58
21:S1:1124:ASP:O	21:S1:1127:GLN:N	2.32	0.58
21:S3:680:PRO:CB	21:S4:1097:LYS:CE	2.82	0.58
21:S4:429:SER:HB2	21:S4:436:SER:CB	2.33	0.58
24:V2:426:TYR:O	24:V2:464:ARG:NH2	2.36	0.58
26:X2:162:VAL:O	26:X2:166:ASP:HB3	2.03	0.58
26:X4:162:VAL:O	26:X4:166:ASP:HB3	2.03	0.58
1:A1:870:HIS:CB	6:D3:279:HIS:O	2.49	0.58
1:A1:1233:GLN:NE2	2:A2:722:ASN:OD1	2.36	0.58
2:A2:227:SER:HB2	6:D1:711:PHE:C	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:879:LEU:HD12	6:D1:564:ASN:OD1	2.02	0.58
2:A2:969:ASP:N	6:D1:196:ILE:HA	2.17	0.58
2:A2:971:ALA:N	6:D1:192:TYR:CE2	2.71	0.58
1:A3:1186:TRP:CE3	3:A6:637:THR:HG22	2.35	0.58
1:A3:1186:TRP:NE1	3:A6:640:LEU:HB2	2.19	0.58
1:A3:1241:ARG:NH2	3:A6:596:ARG:NE	2.51	0.58
1:A3:1259:CYS:SG	3:A6:624:ASP:CB	2.87	0.58
2:A4:89:LEU:HD12	3:A6:394:LEU:O	2.03	0.58
2:A4:770:GLY:HA3	3:A6:469:PHE:CA	2.18	0.58
2:A4:807:SER:HB2	3:A6:383:PRO:O	2.04	0.58
2:A4:896:ALA:C	3:A6:165:PHE:CD1	2.73	0.58
3:A6:483:HIS:CD2	6:D3:675:ARG:CD	2.85	0.58
6:D7:512:LEU:CB	11:I3:181:GLN:N	2.66	0.58
8:F1:1137:GLN:HG3	17:O2:248:SER:CB	2.19	0.58
11:I1:841:PHE:O	15:M1:588:MET:N	2.36	0.58
11:I1:950:LEU:HB3	16:N1:403:VAL:O	2.03	0.58
11:I1:953:LEU:CD2	15:M1:599:ILE:O	2.51	0.58
11:I1:985:ARG:NH1	20:R1:151:LYS:HE3	2.18	0.58
11:I1:1031:ALA:O	20:R1:173:LEU:HA	2.04	0.58
11:I1:1043:LEU:HD22	16:N1:430:ARG:CA	2.32	0.58
11:I1:1642:LEU:HD13	11:I2:1669:ARG:CZ	2.30	0.58
11:I2:997:SER:HB3	16:N3:427:VAL:HG23	1.82	0.58
11:I2:1025:LEU:CD2	20:R3:170:LEU:CD1	2.82	0.58
11:I2:1070:LEU:HD12	16:N3:429:GLU:C	2.24	0.58
11:I3:921:GLU:N	11:I3:921:GLU:OE1	2.35	0.58
11:I3:1277:LEU:HD22	26:X1:518:ASP:C	2.24	0.58
15:M3:608:LYS:HZ2	17:O3:271:GLU:HG2	1.68	0.58
17:O3:161:ASN:C	18:P3:315:GLU:CD	2.54	0.58
21:S4:349:CYS:HA	21:S4:412:PHE:CE2	2.39	0.58
21:S4:991:LYS:O	21:S4:995:MET:HB2	2.04	0.58
26:X1:163:LYS:HD2	26:X1:172:PHE:CZ	2.38	0.58
27:Y1:123:LEU:HB2	27:Y1:139:ALA:HB3	1.86	0.58
27:Y4:123:LEU:HB2	27:Y4:139:ALA:HB3	1.86	0.58
2:A2:227:SER:CB	6:D1:708:ASP:O	2.50	0.58
2:A2:227:SER:CB	6:D1:711:PHE:C	2.72	0.58
2:A2:875:LEU:N	6:D1:568:ARG:N	2.28	0.58
2:A2:970:PHE:C	6:D1:192:TYR:HE2	2.00	0.58
2:A2:980:ARG:CG	6:D1:526:LEU:CB	2.81	0.58
1:A3:785:ILE:CD1	1:A3:825:ARG:HG2	2.31	0.58
1:A3:1166:LEU:O	3:A6:594:LEU:HB3	2.02	0.58
1:A3:1198:GLU:OE1	3:A6:679:TYR:C	2.41	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1250:PRO:HD3	3:A6:636:ASN:CG	1.80	0.58
2:A4:719:ARG:HG2	3:A6:514:GLY:H	1.67	0.58
2:A4:774:VAL:HG23	3:A6:469:PHE:CE2	2.38	0.58
2:A4:801:THR:O	3:A6:319:TYR:OH	2.20	0.58
2:A4:859:GLN:HG2	3:A6:176:LEU:HD11	1.84	0.58
2:A4:876:ARG:NE	6:D3:565:MET:HG2	2.16	0.58
3:A5:1368:GLN:N	28:Z2:829:SER:CB	2.66	0.58
3:A6:1374:ALA:HB2	28:Z4:867:LYS:O	2.03	0.58
3:A6:1385:GLU:CB	28:Z4:907:LEU:CB	2.82	0.58
6:D2:570:VAL:HG11	6:D2:598:ILE:HD12	1.86	0.58
6:D4:570:VAL:HG11	6:D4:598:ILE:HD12	1.85	0.58
6:D7:570:VAL:HG11	6:D7:598:ILE:HD12	1.86	0.58
8:F1:1205:TRP:CD2	17:O2:254:ARG:HD3	2.36	0.58
8:F1:1264:ARG:NH2	17:O2:263:GLN:C	2.49	0.58
11:I1:833:PHE:O	17:O1:237:PRO:O	2.22	0.58
11:I1:853:ILE:HG23	17:O1:254:ARG:CG	2.33	0.58
11:I1:1055:GLU:HA	17:O1:281:ALA:CB	2.33	0.58
11:I2:895:ARG:N	17:O3:239:GLN:HB2	2.15	0.58
11:I2:950:LEU:HB2	16:N3:407:ALA:HB2	1.85	0.58
11:I2:958:THR:CA	20:R3:168:LEU:HD21	2.23	0.58
11:I2:980:ILE:CD1	15:M3:622:VAL:HG22	2.20	0.58
11:I2:987:GLY:N	15:M3:613:ASP:CB	2.54	0.58
11:I2:1049:LEU:O	17:O3:287:LEU:O	2.16	0.58
11:I2:1363:GLU:OE1	11:I2:1366:ARG:NH2	2.36	0.58
11:I3:1274:HIS:HB3	26:X1:534:ILE:CG2	2.26	0.58
11:I4:813:ILE:C	26:X3:496:THR:HG22	2.23	0.58
11:I4:1255:HIS:ND1	11:I4:1255:HIS:O	2.35	0.58
11:I4:1277:LEU:HD23	26:X3:517:ASP:OD2	2.04	0.58
21:S1:349:CYS:HA	21:S1:412:PHE:CE2	2.38	0.58
21:S1:680:PRO:CA	21:S2:1127:GLN:HE21	2.09	0.58
22:T1:842:ARG:O	22:T1:846:MET:HG3	2.02	0.58
23:U2:211:ILE:HG23	24:V2:321:VAL:HG11	1.85	0.58
23:U3:277:LEU:CA	25:W4:192:GLN:HE22	2.13	0.58
23:U4:71:GLU:OE1	23:U4:75:TRP:NE1	2.36	0.58
24:V1:426:TYR:O	24:V1:464:ARG:NH2	2.36	0.58
26:X4:258:LEU:HD22	26:X4:292:LEU:HD22	1.85	0.58
27:Y2:42:THR:O	27:Y2:44:ASN:N	2.31	0.58
27:Y3:123:LEU:HB2	27:Y3:139:ALA:HB3	1.86	0.58
28:Z2:245:ILE:HB	28:Z2:255:GLN:HB2	1.84	0.58
1:A1:1222:ALA:C	2:A2:645:PHE:CE1	2.77	0.58
2:A2:1138:GLU:HB3	3:A5:147:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1153:LEU:CG	3:A5:173:ASN:HA	2.27	0.58
1:A3:1048:ARG:HH21	6:D3:815:GLU:CD	2.02	0.58
1:A3:1048:ARG:HH21	6:D3:815:GLU:HG2	1.69	0.58
1:A3:1161:ALA:CB	3:A6:647:GLU:O	2.51	0.58
1:A3:1285:LEU:CA	3:A6:581:LYS:CE	1.98	0.58
2:A4:80:LYS:CG	3:A6:323:THR:OG1	2.51	0.58
2:A4:85:VAL:HG22	3:A6:405:PHE:CD1	2.37	0.58
2:A4:544:PHE:HD1	3:A6:363:ALA:HB2	1.68	0.58
2:A4:610:THR:N	3:A6:103:ARG:NH1	2.47	0.58
2:A4:611:ILE:HG21	3:A6:508:LEU:CG	1.26	0.58
2:A4:685:ARG:NH2	3:A6:362:PHE:HE1	1.97	0.58
2:A4:761:GLN:OE1	3:A6:545:GLY:O	2.21	0.58
2:A4:789:LEU:CA	3:A6:145:THR:O	2.52	0.58
2:A4:858:ALA:HB1	3:A6:174:PRO:O	2.02	0.58
2:A4:865:ALA:HB2	6:D3:567:LEU:CD1	2.34	0.58
2:A4:885:LEU:O	3:A6:171:HIS:CE1	2.57	0.58
2:A4:951:GLU:HA	4:B6:346:LEU:HA	1.85	0.58
3:A5:1000:ASP:N	11:I5:62:GLU:CB	2.66	0.58
3:A5:1365:VAL:HG12	28:Z2:829:SER:O	2.03	0.58
3:A5:1392:ARG:NH1	28:Z2:866:GLU:CB	2.67	0.58
6:D5:738:SER:OG	6:D5:740:GLU:OE1	2.21	0.58
6:D7:537:ARG:NH2	11:I3:173:ARG:NH2	2.50	0.58
7:E3:91:VAL:HG22	7:E3:91:VAL:O	2.04	0.58
7:E7:91:VAL:HG22	7:E7:91:VAL:O	2.04	0.58
8:F1:1093:LEU:HD21	17:O2:241:SER:HA	1.86	0.58
8:F1:1264:ARG:O	17:O2:265:ASN:HB2	1.97	0.58
11:I1:937:TYR:HB3	17:O1:258:GLU:N	2.15	0.58
11:I1:1018:LYS:CE	16:N1:413:VAL:C	2.30	0.58
11:I1:1047:CYS:C	20:R1:143:PHE:HE1	2.02	0.58
11:I1:1663:LYS:HE2	11:I2:1663:LYS:HE2	1.86	0.58
11:I2:874:LEU:O	17:O3:252:VAL:N	2.36	0.58
11:I2:1043:LEU:HD13	16:N3:434:LEU:N	2.19	0.58
11:I2:1055:GLU:HA	17:O3:281:ALA:HB2	1.86	0.58
11:I3:1363:GLU:OE1	11:I3:1366:ARG:NH2	2.36	0.58
11:I4:819:MET:CB	26:X3:501:LYS:CD	2.64	0.58
11:I4:1273:GLU:HG2	26:X3:520:GLU:O	2.03	0.58
21:S1:932:HIS:O	21:S1:933:GLU:CB	2.51	0.58
26:X2:453:ASP:HB3	27:Y2:225:GLY:O	2.03	0.58
26:X3:453:ASP:HB3	27:Y3:225:GLY:O	2.04	0.58
26:X4:453:ASP:HB3	27:Y4:225:GLY:O	2.04	0.58
1:A1:1052:THR:CG2	6:D1:812:VAL:HG12	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1391:ARG:NH1	2:A2:927:ARG:NH2	2.51	0.58
2:A2:1150:LEU:CD1	5:C2:731:LYS:CG	2.82	0.58
2:A2:1160:GLN:HE21	3:A5:166:LEU:N	1.78	0.58
1:A3:1196:GLU:C	3:A6:609:GLU:CD	2.57	0.58
2:A4:861:GLN:HA	6:D3:607:PRO:HB3	1.83	0.58
2:A4:909:LYS:HG2	6:D3:552:TYR:CD1	2.39	0.58
2:A4:947:LYS:CE	3:A6:203:ILE:HG12	2.34	0.58
2:A4:1055:ARG:HG2	6:D4:762:ARG:HA	1.84	0.58
3:A5:222:ALA:HB1	5:C2:739:MET:CE	2.34	0.58
3:A5:1403:MSE:HB3	28:Z2:920:SER:H	1.66	0.58
6:D2:598:ILE:HD13	6:D2:608:ILE:CD1	2.34	0.58
6:D2:738:SER:OG	6:D2:740:GLU:OE1	2.22	0.58
8:F2:1832:ASN:OD1	8:F2:1833:ARG:N	2.36	0.58
9:G2:259:THR:O	17:O4:259:ASP:OD1	2.22	0.58
11:I1:917:TYR:CD2	15:M1:586:ASP:O	2.57	0.58
11:I1:927:HIS:O	15:M1:597:LYS:HB3	1.66	0.58
11:I1:967:SER:O	15:M1:628:ALA:HB3	2.04	0.58
11:I1:980:ILE:CB	15:M1:618:GLN:HA	2.33	0.58
11:I1:1052:LEU:HB3	16:N1:438:LEU:HD11	0.59	0.58
11:I1:1055:GLU:OE2	17:O1:280:GLU:HG3	2.03	0.58
11:I1:1182:GLN:CG	12:J1:245:GLU:OE2	2.51	0.58
11:I1:1255:HIS:ND1	11:I1:1255:HIS:O	2.35	0.58
11:I1:1433:THR:HG21	12:J1:270:ARG:CD	2.33	0.58
11:I2:797:LEU:HD22	17:O3:245:GLU:N	2.19	0.58
11:I2:966:TRP:CA	20:R3:150:ASN:O	2.52	0.58
11:I2:1037:THR:HG23	20:R3:169:GLY:HA2	1.77	0.58
21:S2:184:ILE:HD11	21:S2:201:VAL:CG2	2.34	0.58
21:S3:349:CYS:HA	21:S3:412:PHE:CE2	2.38	0.58
21:S3:684:THR:C	21:S4:1150:TYR:N	2.25	0.58
21:S3:932:HIS:O	21:S3:933:GLU:CB	2.51	0.58
24:V4:180:LEU:HD21	24:V4:185:LEU:HD13	1.85	0.58
25:W2:205:ASP:HB3	25:W2:227:GLN:HB3	1.85	0.58
25:W4:217:LEU:HD22	25:W4:218:LEU:H	1.69	0.58
26:X2:244:TYR:O	26:X2:248:LEU:HG	2.02	0.58
1:A3:1164:TYR:CD1	3:A6:643:ALA:O	2.57	0.58
1:A3:1261:TYR:HD2	3:A6:679:TYR:CZ	2.15	0.58
1:A3:1271:ILE:CG1	3:A6:553:ASP:HB2	2.33	0.58
2:A4:77:PRO:HG2	3:A6:534:PRO:HB2	1.84	0.58
2:A4:611:ILE:CG2	3:A6:508:LEU:HG	0.25	0.58
2:A4:613:ALA:O	3:A6:509:LYS:NZ	2.32	0.58
2:A4:855:THR:HG22	3:A6:169:TYR:CA	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:855:THR:CG2	3:A6:169:TYR:N	2.56	0.58
3:A5:160:ILE:C	5:C2:744:PHE:HA	2.23	0.58
3:A6:132:ASP:HB3	6:D3:607:PRO:CD	2.29	0.58
3:A6:442:ARG:HE	6:D3:692:LEU:CD2	2.13	0.58
3:A6:1338:ALA:CB	28:Z4:995:ARG:N	2.66	0.58
3:A6:1388:ALA:CB	28:Z4:904:PHE:O	2.52	0.58
6:D1:598:ILE:HD13	6:D1:608:ILE:CD1	2.34	0.58
6:D3:598:ILE:HD13	6:D3:608:ILE:CD1	2.34	0.58
6:D5:598:ILE:HD13	6:D5:608:ILE:CD1	2.34	0.58
9:G1:263:MET:HE1	16:N2:407:ALA:O	2.03	0.58
11:I1:879:VAL:HG12	17:O1:247:TRP:CB	2.32	0.58
11:I1:925:LEU:C	15:M1:597:LYS:HG3	2.25	0.58
11:I1:927:HIS:CD2	15:M1:594:LYS:CG	2.86	0.58
11:I1:951:LYS:CD	16:N1:400:LEU:C	2.67	0.58
11:I1:1111:ALA:CB	16:N1:439:ARG:HH11	2.16	0.58
11:I2:841:PHE:O	15:M3:587:GLU:O	2.22	0.58
11:I2:1036:PRO:HD2	15:M3:626:HIS:CG	2.39	0.58
11:I2:1049:LEU:C	17:O3:287:LEU:C	2.57	0.58
11:I4:1270:LYS:CB	26:X3:528:GLU:HB2	2.33	0.58
17:O3:147:ALA:HB3	18:P3:328:PRO:HG3	1.86	0.58
21:S2:349:CYS:HA	21:S2:412:PHE:CE2	2.39	0.58
21:S2:932:HIS:O	21:S2:933:GLU:CB	2.51	0.58
21:S3:678:GLU:CA	21:S4:1141:GLU:CA	2.80	0.58
22:T1:696:MET:HE3	22:T1:712:PHE:HB2	1.85	0.58
24:V1:180:LEU:HD21	24:V1:185:LEU:HD13	1.85	0.58
2:A2:1135:ARG:NH1	3:A5:147:LEU:CD2	2.65	0.58
1:A3:1235:ILE:CD1	3:A6:617:VAL:CG2	2.80	0.58
1:A3:1237:LEU:HD11	3:A6:119:TRP:CH2	2.38	0.58
2:A4:717:VAL:CG1	3:A6:474:GLY:O	2.51	0.58
2:A4:725:GLU:HG2	3:A6:574:ARG:HA	1.84	0.58
2:A4:801:THR:CG2	3:A6:381:LEU:HG	2.33	0.58
2:A4:886:PHE:HE1	3:A6:176:LEU:HD23	1.68	0.58
2:A4:977:VAL:C	6:D3:496:LEU:CD1	2.45	0.58
3:A5:186:ILE:CD1	5:C2:744:PHE:HB2	2.31	0.58
3:A5:1050:TYR:OH	11:I5:70:GLU:CD	2.37	0.58
3:A5:1406:GLY:O	28:Z2:921:THR:CB	2.51	0.58
3:A6:115:SER:OG	6:D3:683:LYS:HG3	2.03	0.58
3:A6:132:ASP:OD2	6:D3:607:PRO:CB	2.49	0.58
3:A6:1410:ALA:CA	26:X4:686:ASP:CA	2.68	0.58
6:D6:738:SER:OG	6:D6:740:GLU:OE1	2.21	0.58
7:E5:91:VAL:HG22	7:E5:91:VAL:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1267:ARG:HH22	17:O2:268:GLY:CA	2.16	0.58
9:G1:255:LEU:HA	17:O2:257:ALA:CB	2.34	0.58
11:I1:957:SER:C	20:R1:168:LEU:CG	2.68	0.58
11:I1:978:LYS:CE	20:R1:155:GLU:N	2.57	0.58
11:I1:1055:GLU:HB3	17:O1:281:ALA:N	2.19	0.58
11:I1:1113:LEU:CA	16:N1:435:ALA:HB1	2.34	0.58
11:I2:828:VAL:CG1	17:O3:237:PRO:CG	2.78	0.58
11:I2:886:LEU:HB3	17:O3:242:ARG:HA	1.85	0.58
11:I2:976:ARG:O	20:R3:150:ASN:CB	2.47	0.58
11:I2:1035:GLN:C	15:M3:623:LEU:CD2	2.72	0.58
11:I4:921:GLU:N	11:I4:921:GLU:OE1	2.35	0.58
11:I4:1433:THR:HG21	12:J4:270:ARG:CD	2.33	0.58
11:I5:1433:THR:HG21	12:J5:270:ARG:CD	2.33	0.58
12:J1:249:ASP:OD1	12:J1:250:THR:N	2.37	0.58
21:S2:991:LYS:O	21:S2:995:MET:HB2	2.04	0.58
22:T2:779:GLN:N	22:T2:780:PRO:HD3	2.19	0.58
23:U2:343:ILE:HD13	23:U2:344:ARG:N	2.19	0.58
26:X1:159:ILE:HG22	26:X1:172:PHE:CE1	2.39	0.58
26:X1:244:TYR:O	26:X1:248:LEU:HG	2.02	0.58
26:X3:258:LEU:HD22	26:X3:292:LEU:HD22	1.85	0.58
26:X3:271:LEU:O	26:X3:275:SER:HB3	2.04	0.58
2:A2:225:THR:O	6:D1:708:ASP:HB2	2.04	0.57
2:A2:1124:ARG:CD	3:A5:136:GLU:OE2	2.24	0.57
1:A3:1048:ARG:NE	6:D3:819:ASN:ND2	2.27	0.57
1:A3:1231:VAL:CG1	3:A6:617:VAL:HG22	2.30	0.57
2:A4:682:ARG:CZ	3:A6:103:ARG:O	2.52	0.57
2:A4:779:ASP:HA	3:A6:487:ASP:N	2.19	0.57
2:A4:900:THR:HB	3:A6:137:HIS:CG	2.38	0.57
2:A4:946:LYS:CD	4:B6:350:GLU:OE2	2.51	0.57
2:A4:1150:LEU:HD11	5:C4:731:LYS:HG3	1.84	0.57
3:A5:999:SER:C	11:I5:64:LYS:HE3	2.24	0.57
3:A5:1029:ILE:N	11:I5:67:LYS:CA	2.64	0.57
3:A5:1135:ARG:NE	5:C5:743:LEU:HD12	2.18	0.57
3:A6:1338:ALA:CB	28:Z4:995:ARG:H	2.17	0.57
6:D4:598:ILE:HD13	6:D4:608:ILE:CD1	2.34	0.57
6:D7:201:LEU:O	6:D7:203:PRO:HD3	2.04	0.57
9:G1:256:GLN:H	17:O2:257:ALA:HB3	1.66	0.57
11:I1:846:ILE:HB	15:M1:594:LYS:HB3	1.85	0.57
11:I1:925:LEU:HA	15:M1:596:ILE:HB	1.85	0.57
11:I1:1041:GLN:N	15:M1:620:VAL:HG22	2.19	0.57
11:I1:1048:GLU:CG	17:O1:288:GLU:H	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1056:PRO:C	17:O1:277:GLU:C	2.61	0.57
11:I1:1107:SER:OG	16:N1:437:VAL:HA	2.04	0.57
11:I1:1114:VAL:HG21	16:N1:432:TYR:O	2.01	0.57
11:I2:836:VAL:CG1	17:O3:244:GLU:HB2	2.19	0.57
11:I2:976:ARG:CB	20:R3:149:ARG:HB2	2.26	0.57
11:I2:980:ILE:CB	15:M3:618:GLN:CG	2.81	0.57
11:I2:1039:ALA:HB3	20:R3:170:LEU:CA	2.27	0.57
11:I2:1433:THR:HG21	12:J2:270:ARG:CD	2.33	0.57
11:I3:1277:LEU:H	26:X1:522:MET:HB2	1.64	0.57
11:I5:1363:GLU:OE1	11:I5:1366:ARG:NH2	2.36	0.57
12:J3:249:ASP:OD1	12:J3:250:THR:N	2.37	0.57
23:U1:20:LYS:O	23:U1:24:ILE:HG12	1.97	0.57
27:Y2:123:LEU:HB2	27:Y2:139:ALA:HB3	1.86	0.57
2:A2:781:ARG:CA	6:D1:673:ARG:O	2.53	0.57
2:A2:863:GLN:N	6:D1:606:LYS:H	2.02	0.57
2:A2:989:MSE:HE3	6:D1:240:ASP:N	2.13	0.57
2:A2:1138:GLU:HB2	3:A5:147:LEU:HD13	0.58	0.57
2:A2:1139:ILE:CG2	3:A5:135:PHE:N	2.59	0.57
1:A3:1188:ASN:H	3:A6:642:ARG:HA	1.69	0.57
1:A3:1257:VAL:CG2	3:A6:719:ARG:HH12	2.13	0.57
2:A4:543:GLY:HA2	3:A6:365:MET:N	2.19	0.57
2:A4:802:TYR:CB	3:A6:397:LEU:HB3	2.32	0.57
2:A4:821:ALA:O	3:A6:138:LEU:HD11	2.03	0.57
2:A4:948:ALA:H	3:A6:235:TYR:HE1	1.41	0.57
2:A4:970:PHE:CB	6:D3:498:GLU:HB3	2.33	0.57
3:A6:1360:GLY:N	28:Z4:918:PHE:CB	2.67	0.57
6:D6:570:VAL:HG11	6:D6:598:ILE:HD12	1.86	0.57
6:D6:598:ILE:HD13	6:D6:608:ILE:CD1	2.34	0.57
7:E6:91:VAL:HG22	7:E6:91:VAL:O	2.04	0.57
8:F1:1093:LEU:HB2	17:O2:244:GLU:OE2	2.04	0.57
11:I1:913:ALA:N	15:M1:584:GLN:HE21	1.95	0.57
11:I1:948:ALA:CB	17:O1:256:TYR:HB3	2.34	0.57
11:I1:957:SER:O	20:R1:168:LEU:HD11	2.04	0.57
11:I1:976:ARG:CA	20:R1:149:ARG:HD3	2.29	0.57
11:I1:1052:LEU:CD2	16:N1:434:LEU:HD12	2.34	0.57
11:I2:976:ARG:HE	20:R3:143:PHE:C	2.07	0.57
11:I2:1028:CYS:CA	20:R3:173:LEU:N	2.65	0.57
11:I2:1048:GLU:HB2	17:O3:284:LYS:HA	1.84	0.57
17:O2:111:TYR:CD1	18:P2:325:ILE:HG12	2.39	0.57
21:S1:184:ILE:HD11	21:S1:201:VAL:CG2	2.34	0.57
21:S4:184:ILE:HD11	21:S4:201:VAL:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:71:GLU:OE1	23:U1:75:TRP:NE1	2.36	0.57
23:U4:280:SER:HB2	23:U4:284:SER:HB3	1.86	0.57
23:U4:343:ILE:HD13	23:U4:344:ARG:N	2.19	0.57
23:U4:433:ALA:HB1	23:U4:439:SER:OG	2.05	0.57
26:X2:159:ILE:HG22	26:X2:172:PHE:CE1	2.39	0.57
28:Z1:329:TRP:HB3	28:Z1:355:TRP:HB3	1.85	0.57
28:Z4:185:GLY:O	28:Z4:196:PRO:HA	2.04	0.57
1:A1:834:GLU:CA	6:D3:302:PRO:CB	2.82	0.57
1:A1:870:HIS:CG	6:D3:279:HIS:CE1	2.73	0.57
2:A2:970:PHE:CD1	6:D1:196:ILE:HD11	2.35	0.57
2:A2:984:ALA:C	6:D1:498:GLU:HA	2.24	0.57
1:A3:1123:GLU:CB	3:A6:599:ARG:HD2	2.24	0.57
1:A3:1188:ASN:CA	3:A6:642:ARG:HA	2.34	0.57
1:A3:1201:ARG:CG	3:A6:549:ALA:H	2.12	0.57
1:A3:1201:ARG:HB3	2:A4:734:LEU:C	2.09	0.57
1:A3:1228:TYR:HA	3:A6:576:VAL:HG11	1.86	0.57
1:A3:1235:ILE:HD11	3:A6:617:VAL:HG13	1.86	0.57
1:A3:1257:VAL:HG12	3:A6:620:GLY:HA2	1.69	0.57
1:A3:1390:LEU:CD1	3:A6:228:GLY:CA	2.79	0.57
2:A4:97:ASP:HB3	3:A6:364:HIS:CE1	2.38	0.57
2:A4:680:LEU:HB2	3:A6:510:TYR:CE1	2.37	0.57
2:A4:857:LYS:NZ	3:A6:129:ASN:CG	2.56	0.57
2:A4:886:PHE:HE1	3:A6:176:LEU:N	1.90	0.57
2:A4:974:PRO:CA	6:D3:499:LEU:CG	2.81	0.57
3:A5:1092:ASN:OD1	11:I5:33:THR:HG22	2.03	0.57
3:A6:1364:GLN:CG	28:Z4:876:LEU:O	2.51	0.57
11:I1:928:LEU:HD21	20:R1:155:GLU:CB	2.30	0.57
11:I1:1038:ILE:HG13	20:R1:167:GLN:OE1	2.03	0.57
11:I2:874:LEU:CA	17:O3:255:GLY:N	2.51	0.57
11:I2:938:CYS:O	17:O3:264:ILE:O	2.22	0.57
11:I2:953:LEU:HD22	15:M3:603:SER:OG	1.80	0.57
11:I3:1271:GLU:N	26:X1:529:TRP:CB	2.64	0.57
11:I4:1112:SER:HB3	12:J4:241:THR:HB	1.87	0.57
11:I5:1277:LEU:CD2	26:X2:517:ASP:CB	2.82	0.57
12:J4:249:ASP:OD1	12:J4:250:THR:N	2.37	0.57
23:U1:343:ILE:HD13	23:U1:344:ARG:N	2.19	0.57
24:V3:180:LEU:HD21	24:V3:185:LEU:HD13	1.85	0.57
24:V3:262:LYS:NZ	24:V3:398:TYR:O	2.36	0.57
26:X1:145:ASN:OD1	26:X1:190:PHE:HA	2.04	0.57
26:X2:145:ASN:OD1	26:X2:190:PHE:HA	2.04	0.57
26:X3:159:ILE:HG22	26:X3:172:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z1:125:ASP:OD1	28:Z1:127:SER:OG	2.17	0.57
28:Z1:185:GLY:O	28:Z1:196:PRO:HA	2.04	0.57
1:A1:870:HIS:CB	6:D3:280:GLN:HA	2.33	0.57
1:A1:1224:PRO:HA	2:A2:727:ASN:HB2	1.86	0.57
2:A2:781:ARG:HH22	6:D1:679:ILE:HD12	1.68	0.57
2:A2:970:PHE:HB3	6:D1:498:GLU:OE1	2.04	0.57
2:A2:1132:PRO:HG2	3:A5:138:LEU:HD23	1.86	0.57
1:A3:1201:ARG:O	2:A4:732:GLN:CA	2.51	0.57
1:A3:1248:ILE:N	3:A6:587:VAL:CG1	2.60	0.57
1:A3:1271:ILE:HG22	3:A6:550:VAL:HG12	1.86	0.57
1:A3:1274:ASP:CB	3:A6:556:PRO:CB	2.80	0.57
1:A3:1396:GLY:HA2	2:A4:888:GLN:CG	2.34	0.57
2:A4:643:ALA:O	3:A6:501:VAL:O	2.21	0.57
2:A4:705:ILE:N	3:A6:464:PRO:CD	2.64	0.57
2:A4:720:LEU:CG	3:A6:494:PRO:CB	2.65	0.57
2:A4:731:ILE:HG22	3:A6:95:TYR:HB2	1.85	0.57
2:A4:898:LEU:CB	3:A6:177:ILE:HA	2.30	0.57
2:A4:970:PHE:CZ	6:D3:555:ARG:NH2	2.65	0.57
3:A5:1029:ILE:N	11:I5:68:ILE:CA	2.43	0.57
6:D1:201:LEU:O	6:D1:203:PRO:HD3	2.05	0.57
6:D2:201:LEU:O	6:D2:203:PRO:HD3	2.05	0.57
6:D3:743:HIS:NE2	11:I2:1528:ARG:HG3	2.20	0.57
9:G1:270:ARG:CG	16:N2:413:VAL:O	2.51	0.57
11:I1:1032:THR:O	15:M1:627:LEU:CG	2.52	0.57
11:I1:1040:HIS:ND1	15:M1:623:LEU:HD13	2.15	0.57
11:I2:945:LEU:HD11	17:O3:254:ARG:O	2.02	0.57
11:I2:951:LYS:CD	16:N3:402:GLY:C	2.69	0.57
11:I2:978:LYS:NZ	20:R3:152:LYS:C	2.43	0.57
21:S2:1083:TRP:HA	21:S2:1083:TRP:CE3	2.38	0.57
23:U2:433:ALA:HB1	23:U2:439:SER:OG	2.05	0.57
23:U3:343:ILE:HD13	23:U3:344:ARG:N	2.19	0.57
1:A1:868:GLN:HA	6:D3:275:PHE:HB3	1.86	0.57
1:A1:1332:ARG:C	6:D1:637:LYS:HD3	2.24	0.57
2:A2:865:ALA:O	6:D1:598:ILE:CD1	2.52	0.57
1:A3:1182:ILE:HB	3:A6:639:ASN:HD22	1.69	0.57
1:A3:1261:TYR:CD2	3:A6:616:ALA:HB1	2.36	0.57
2:A4:611:ILE:HB	3:A6:508:LEU:HD12	1.86	0.57
2:A4:648:TYR:O	3:A6:505:ALA:HB2	2.04	0.57
2:A4:679:TYR:OH	3:A6:109:ASP:HB2	2.04	0.57
2:A4:721:ARG:CA	3:A6:572:ARG:NH2	2.65	0.57
2:A4:795:GLN:C	3:A6:249:SER:CB	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:983:LEU:CG	6:D3:497:PHE:CZ	2.88	0.57
3:A5:146:LYS:CB	5:C2:745:SER:O	2.41	0.57
3:A5:157:TRP:HB2	5:C2:741:THR:O	2.02	0.57
3:A5:1026:PRO:CG	11:I5:73:TYR:CB	2.73	0.57
3:A6:1135:ARG:NE	5:C6:743:LEU:HD12	2.18	0.57
3:A6:1388:ALA:HB3	28:Z4:904:PHE:O	2.04	0.57
6:D1:570:VAL:HG11	6:D1:598:ILE:HD12	1.85	0.57
8:F1:171:PHE:O	8:F1:180:ARG:NH2	2.36	0.57
8:F1:1205:TRP:CD1	17:O2:254:ARG:HB3	2.39	0.57
11:I1:799:THR:O	11:I1:831:HIS:NE2	2.37	0.57
11:I1:1607:GLN:HG3	11:I2:1739:GLU:HG3	1.77	0.57
11:I2:874:LEU:N	17:O3:255:GLY:HA2	2.17	0.57
11:I2:923:GLY:HA3	15:M3:591:ASP:CA	2.34	0.57
11:I2:965:ALA:CB	20:R3:154:ALA:HA	2.34	0.57
11:I2:980:ILE:HG21	15:M3:622:VAL:H	1.70	0.57
11:I3:816:ASP:CA	26:X1:498:SER:CB	2.74	0.57
11:I5:465:GLU:OE1	11:I5:465:GLU:N	2.38	0.57
17:O4:109:PRO:N	18:P4:318:PRO:HB3	2.20	0.57
21:S1:678:GLU:CB	21:S2:1128:ALA:HA	2.35	0.57
26:X4:159:ILE:HG21	26:X4:176:GLU:HG2	1.87	0.57
26:X4:163:LYS:HD2	26:X4:172:PHE:CZ	2.38	0.57
2:A2:977:VAL:C	6:D1:496:LEU:CD1	2.60	0.57
1:A3:1189:LEU:CD2	3:A6:579:PHE:CE1	2.84	0.57
1:A3:1220:PRO:HG3	2:A4:732:GLN:HE22	1.68	0.57
1:A3:1254:LEU:HA	3:A6:638:GLU:OE2	2.05	0.57
2:A4:75:LEU:CD2	3:A6:324:ARG:HG3	2.34	0.57
2:A4:673:HIS:CE1	3:A6:541:PRO:CB	2.83	0.57
2:A4:711:VAL:N	3:A6:480:VAL:CG2	2.68	0.57
2:A4:721:ARG:CB	3:A6:572:ARG:NH2	2.67	0.57
2:A4:727:ASN:O	3:A6:500:LYS:CD	2.48	0.57
2:A4:754:HIS:CA	3:A6:543:GLY:CA	2.80	0.57
2:A4:760:LEU:CG	3:A6:388:GLU:CG	2.75	0.57
2:A4:852:ASP:H	3:A6:170:THR:HG23	1.69	0.57
2:A4:861:GLN:CD	6:D3:607:PRO:CB	2.59	0.57
2:A4:878:LEU:HD23	6:D3:607:PRO:CB	1.94	0.57
2:A4:899:THR:C	3:A6:180:GLU:OE2	2.42	0.57
7:E4:91:VAL:HG22	7:E4:91:VAL:O	2.04	0.57
11:I1:1072:ASN:CG	16:N1:429:GLU:OE1	2.42	0.57
11:I1:1669:ARG:HH22	11:I2:1610:VAL:HG11	1.68	0.57
11:I2:931:VAL:N	15:M3:601:ASP:OD1	2.30	0.57
11:I2:980:ILE:N	20:R3:147:LEU:HD11	1.94	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:429:SER:HB2	21:S3:436:SER:CB	2.34	0.57
26:X3:508:LEU:HG	26:X3:522:MET:HE3	1.87	0.57
26:X4:159:ILE:HG22	26:X4:172:PHE:CE1	2.39	0.57
28:Z2:537:THR:CG2	28:Z2:743:ASN:HA	2.31	0.57
28:Z3:91:LYS:NZ	28:Z3:142:ALA:O	2.30	0.57
28:Z3:329:TRP:HB3	28:Z3:355:TRP:HB3	1.85	0.57
1:A1:1202:GLU:H	2:A2:729:SER:C	2.08	0.57
2:A2:225:THR:HG22	6:D1:709:ARG:N	2.20	0.57
2:A2:825:ARG:NH1	6:D1:633:LYS:CD	2.61	0.57
2:A2:983:LEU:CD2	6:D1:497:PHE:CZ	2.88	0.57
1:A3:1098:ARG:CD	11:I2:1414:CYS:CB	2.64	0.57
1:A3:1268:ASP:C	3:A6:553:ASP:O	2.34	0.57
2:A4:753:GLU:HG3	3:A6:543:GLY:CA	2.34	0.57
2:A4:753:GLU:HA	3:A6:542:LEU:HB2	1.83	0.57
2:A4:775:LEU:HB3	3:A6:488:MET:C	2.24	0.57
2:A4:777:LEU:HD11	3:A6:526:ILE:HA	1.85	0.57
2:A4:875:LEU:O	6:D3:567:LEU:HD12	2.03	0.57
2:A4:949:PHE:CB	4:B6:348:PRO:HD2	2.23	0.57
3:A5:1395:LYS:N	28:Z2:874:ASN:H	2.02	0.57
3:A5:1415:PHE:H	28:Z2:960:CYS:CA	2.16	0.57
7:E2:91:VAL:O	7:E2:91:VAL:HG22	2.04	0.57
8:F1:158:PRO:HG2	11:I1:1207:PRO:CD	2.21	0.57
8:F1:1091:SER:HB3	17:O2:242:ARG:N	2.20	0.57
8:F2:190:ARG:NH1	8:F2:281:THR:OG1	2.37	0.57
9:G2:256:GLN:HB3	17:O4:262:ASP:N	2.19	0.57
11:I1:952:LEU:HD12	16:N1:400:LEU:CD1	2.35	0.57
11:I1:1665:LEU:CB	11:I2:1667:GLN:CD	2.72	0.57
11:I2:799:THR:O	11:I2:831:HIS:NE2	2.37	0.57
11:I2:896:PRO:HB3	17:O3:233:THR:OG1	2.04	0.57
11:I2:921:GLU:C	15:M3:593:ALA:N	2.50	0.57
11:I2:948:ALA:CA	17:O3:253:LEU:O	2.50	0.57
11:I2:1030:ARG:N	20:R3:171:ALA:O	2.35	0.57
11:I2:1069:SER:CB	16:N3:427:VAL:N	2.65	0.57
11:I2:1112:SER:HB3	12:J2:241:THR:HB	1.87	0.57
11:I3:799:THR:O	11:I3:831:HIS:NE2	2.37	0.57
21:S3:868:ASP:O	21:S3:869:PHE:C	2.43	0.57
23:U3:433:ALA:HB1	23:U3:439:SER:OG	2.04	0.57
24:V2:359:TYR:HA	24:V2:362:LEU:HD12	1.87	0.57
26:X4:145:ASN:OD1	26:X4:190:PHE:HA	2.04	0.57
28:Z1:342:LEU:HD13	28:Z1:379:ILE:HD12	1.86	0.57
28:Z2:329:TRP:HB3	28:Z2:355:TRP:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:342:LEU:HD13	28:Z2:379:ILE:HD12	1.86	0.57
2:A2:908:LEU:HA	6:D1:601:PHE:CB	2.31	0.57
2:A2:911:TYR:OH	6:D1:196:ILE:HG22	2.03	0.57
1:A3:1251:VAL:HA	3:A6:634:ASP:OD2	2.04	0.57
1:A3:1389:SER:OG	3:A6:230:LYS:N	2.38	0.57
2:A4:235:TYR:HE1	4:B4:347:LEU:CB	2.12	0.57
2:A4:610:THR:HG22	3:A6:507:ALA:HB2	1.86	0.57
2:A4:672:ARG:CG	3:A6:96:PRO:HG3	0.45	0.57
2:A4:713:ILE:H	3:A6:462:LEU:HD21	1.70	0.57
2:A4:763:LEU:HD21	3:A6:384:ILE:HG12	1.85	0.57
2:A4:859:GLN:HB3	3:A6:134:VAL:CA	2.35	0.57
2:A4:908:LEU:CA	6:D3:552:TYR:OH	2.53	0.57
2:A4:978:ASP:N	6:D3:492:VAL:CG1	2.68	0.57
3:A5:999:SER:HG	11:I5:63:PRO:CD	2.01	0.57
3:A5:1046:LEU:HD11	11:I5:70:GLU:CB	2.30	0.57
3:A6:446:LEU:HD12	6:D3:721:PRO:C	2.24	0.57
3:A6:487:ASP:N	6:D3:674:TYR:O	2.37	0.57
6:D6:201:LEU:O	6:D6:203:PRO:HD3	2.05	0.57
11:I1:899:LEU:O	17:O1:232:LYS:HE3	2.04	0.57
11:I1:917:TYR:CE2	15:M1:591:ASP:N	2.71	0.57
11:I1:930:LEU:CD2	15:M1:595:MET:O	2.53	0.57
11:I1:977:ASN:CG	15:M1:621:ARG:O	2.42	0.57
11:I1:997:SER:HG	16:N1:427:VAL:N	2.03	0.57
11:I1:1054:ILE:O	17:O1:282:LYS:N	2.24	0.57
11:I1:1546:TRP:O	12:J2:300:ILE:HG21	2.05	0.57
11:I2:834:SER:HA	17:O3:241:SER:N	2.20	0.57
11:I2:899:LEU:CD2	17:O3:235:ASN:CB	2.80	0.57
21:S3:1124:ASP:O	21:S3:1127:GLN:N	2.32	0.57
21:S4:384:ASP:N	21:S4:384:ASP:OD1	2.38	0.57
21:S4:868:ASP:O	21:S4:869:PHE:C	2.43	0.57
23:U3:280:SER:HB2	23:U3:284:SER:HB3	1.86	0.57
24:V1:199:THR:HB	24:V1:213:GLU:HB2	1.87	0.57
24:V2:180:LEU:HD21	24:V2:185:LEU:HD13	1.85	0.57
24:V3:199:THR:HB	24:V3:213:GLU:HB2	1.87	0.57
24:V4:199:THR:HB	24:V4:213:GLU:HB2	1.87	0.57
25:W2:217:LEU:HD22	25:W2:218:LEU:H	1.69	0.57
28:Z4:101:SER:HA	28:Z4:123:LEU:HA	1.87	0.57
2:A2:877:ALA:N	6:D1:563:GLU:HA	2.20	0.57
2:A2:1131:ILE:C	3:A5:141:GLY:HA3	2.25	0.57
1:A3:1154:PHE:HB2	3:A6:591:ASP:OD1	2.04	0.57
1:A3:1232:SER:OG	3:A6:577:ASP:OD1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1254:LEU:HD11	3:A6:638:GLU:CG	2.20	0.57
1:A3:1261:TYR:HB3	3:A6:620:GLY:C	2.20	0.57
1:A3:1265:ASN:HA	3:A6:683:LEU:HD13	1.84	0.57
2:A4:235:TYR:OH	4:B4:347:LEU:HD12	2.05	0.57
2:A4:542:LEU:C	3:A6:361:ASP:HA	2.24	0.57
2:A4:689:LYS:HG2	3:A6:396:ALA:HB3	1.76	0.57
2:A4:691:LYS:CA	3:A6:316:ARG:NH2	2.67	0.57
2:A4:713:ILE:CG1	3:A6:462:LEU:HD11	1.91	0.57
2:A4:760:LEU:CD2	3:A6:98:LEU:CA	2.77	0.57
2:A4:818:LEU:CD2	3:A6:146:LYS:NZ	2.67	0.57
2:A4:864:ARG:NH1	6:D3:610:ASN:CB	2.53	0.57
2:A4:879:LEU:HG	6:D3:567:LEU:CG	2.35	0.57
3:A5:222:ALA:CB	5:C2:739:MET:CE	2.83	0.57
3:A5:1001:GLU:CG	11:I5:65:LYS:HB2	2.35	0.57
3:A5:1411:ARG:HE	26:X2:744:MET:C	2.08	0.57
3:A6:520:GLU:CB	6:D3:635:ALA:CB	2.45	0.57
6:D5:570:VAL:HG11	6:D5:598:ILE:HD12	1.85	0.57
8:F1:190:ARG:NH1	8:F1:281:THR:OG1	2.36	0.57
8:F1:1659:MET:O	8:F1:1712:ASN:ND2	2.36	0.57
11:I1:873:ILE:HG23	17:O1:254:ARG:CB	2.31	0.57
11:I2:874:LEU:HG	17:O3:256:TYR:CA	2.34	0.57
11:I2:978:LYS:HE2	20:R3:153:GLN:C	2.24	0.57
11:I2:1029:LEU:CD2	20:R3:170:LEU:HD23	2.32	0.57
11:I3:1278:ALA:CB	26:X1:520:GLU:H	2.10	0.57
25:W2:117:LEU:HB2	25:W2:153:TRP:NE1	2.20	0.57
26:X1:271:LEU:O	26:X1:275:SER:HB3	2.04	0.57
26:X3:159:ILE:HG21	26:X3:176:GLU:HG2	1.87	0.57
28:Z3:101:SER:HA	28:Z3:123:LEU:HA	1.87	0.57
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB3	2.05	0.57
1:A3:1197:ALA:N	3:A6:678:LEU:HD23	2.19	0.57
1:A3:1267:GLN:CB	3:A6:551:GLN:O	2.20	0.57
2:A4:688:TRP:CH2	3:A6:382:SER:CB	2.84	0.57
2:A4:706:PRO:HB2	3:A6:461:ALA:CA	2.26	0.57
2:A4:724:LEU:CD2	3:A6:496:THR:HG23	2.35	0.57
2:A4:779:ASP:OD2	6:D3:680:SER:HB2	2.02	0.57
2:A4:1150:LEU:CD1	5:C4:731:LYS:CG	2.82	0.57
3:A6:518:GLU:O	6:D3:686:ASP:HB2	2.05	0.57
6:D3:201:LEU:O	6:D3:203:PRO:HD3	2.05	0.57
6:D7:598:ILE:HD13	6:D7:608:ILE:CD1	2.34	0.57
11:I1:94:GLU:N	11:I1:94:GLU:OE1	2.38	0.57
11:I1:833:PHE:CZ	17:O1:241:SER:CB	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:959:SER:HB2	20:R1:166:LEU:HD21	1.87	0.57
11:I1:1030:ARG:HB2	20:R1:175:GLN:OE1	2.05	0.57
11:I2:955:LYS:CG	16:N3:403:VAL:HG23	2.34	0.57
11:I5:94:GLU:N	11:I5:94:GLU:OE1	2.37	0.57
21:S1:868:ASP:O	21:S1:869:PHE:C	2.43	0.57
21:S3:1020:LEU:H	21:S3:1020:LEU:HD22	1.70	0.57
21:S4:1020:LEU:H	21:S4:1020:LEU:HD22	1.70	0.57
22:T1:669:ARG:HA	22:T1:672:ILE:HG22	1.87	0.57
23:U1:433:ALA:HB1	23:U1:439:SER:OG	2.05	0.57
24:V1:359:TYR:HA	24:V1:362:LEU:HD12	1.86	0.57
25:W3:117:LEU:HB2	25:W3:153:TRP:NE1	2.20	0.57
2:A2:969:ASP:O	6:D1:192:TYR:CG	2.57	0.56
2:A2:970:PHE:CD2	6:D1:498:GLU:CD	2.73	0.56
2:A2:1143:LEU:C	3:A5:129:ASN:HB3	2.26	0.56
1:A3:1021:LEU:HD22	6:D3:816:VAL:HG22	1.86	0.56
1:A3:1186:TRP:HZ3	3:A6:617:VAL:HG11	1.70	0.56
1:A3:1189:LEU:H	3:A6:642:ARG:N	2.03	0.56
1:A3:1332:ARG:HG2	6:D3:636:ASP:HB3	1.80	0.56
2:A4:771:ILE:O	3:A6:479:VAL:HG23	2.04	0.56
2:A4:854:VAL:HG13	3:A6:174:PRO:HD3	1.86	0.56
2:A4:874:VAL:CB	6:D3:568:ARG:O	2.52	0.56
2:A4:892:SER:O	3:A6:232:LEU:CB	2.50	0.56
2:A4:898:LEU:C	4:B6:342:ARG:O	2.42	0.56
2:A4:899:THR:OG1	4:B6:343:LYS:HG2	2.05	0.56
2:A4:901:ALA:HB2	3:A6:176:LEU:CB	2.32	0.56
2:A4:934:TRP:CZ2	4:B6:350:GLU:CG	2.78	0.56
2:A4:951:GLU:CD	3:A6:235:TYR:CE2	2.78	0.56
3:A5:175:GLU:HB3	5:C2:733:LEU:CD1	2.35	0.56
3:A5:220:VAL:C	5:C2:738:ASP:HB3	2.25	0.56
6:D6:804:SER:OG	22:T3:764:PHE:CD2	2.57	0.56
8:F2:540:GLU:OE1	8:F2:540:GLU:N	2.38	0.56
9:G1:263:MET:SD	17:O2:260:LEU:CD2	2.93	0.56
9:G2:256:GLN:HB3	17:O4:261:LYS:CA	2.35	0.56
11:I1:885:GLU:OE2	17:O1:249:ARG:NE	2.39	0.56
11:I1:956:ILE:HG12	15:M1:599:ILE:HD13	1.87	0.56
11:I1:956:ILE:HG21	15:M1:600:ASN:OD1	2.05	0.56
11:I2:950:LEU:HB2	16:N3:407:ALA:CB	2.35	0.56
11:I2:1061:ASP:CB	17:O3:278:GLU:CB	2.68	0.56
11:I2:1109:LEU:HD23	16:N3:438:LEU:HD23	1.85	0.56
21:S1:991:LYS:O	21:S1:995:MET:HB2	2.04	0.56
21:S3:991:LYS:O	21:S3:995:MET:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T4:779:GLN:N	22:T4:780:PRO:HD3	2.20	0.56
23:U2:280:SER:HB2	23:U2:284:SER:HB3	1.86	0.56
25:W3:217:LEU:HD22	25:W3:218:LEU:H	1.69	0.56
25:W4:117:LEU:HB2	25:W4:153:TRP:NE1	2.20	0.56
27:Y4:42:THR:O	27:Y4:44:ASN:N	2.31	0.56
28:Z2:185:GLY:O	28:Z2:196:PRO:HA	2.04	0.56
28:Z3:185:GLY:O	28:Z3:196:PRO:HA	2.04	0.56
28:Z4:342:LEU:HD13	28:Z4:379:ILE:HD12	1.86	0.56
2:A2:226:PRO:CG	6:D1:707:ILE:O	2.53	0.56
2:A2:940:PRO:CA	3:A5:585:ASN:HB3	2.35	0.56
2:A2:1126:VAL:N	3:A5:135:PHE:CB	2.68	0.56
1:A3:1018:ASP:HB3	6:D3:817:LEU:O	2.06	0.56
1:A3:1130:ARG:HA	3:A6:653:ARG:HD2	1.87	0.56
1:A3:1162:ASN:C	3:A6:649:GLY:H	2.08	0.56
1:A3:1164:TYR:CG	3:A6:642:ARG:O	2.51	0.56
1:A3:1165:ASP:HB2	3:A6:594:LEU:CD1	2.33	0.56
1:A3:1201:ARG:C	2:A4:732:GLN:HA	2.25	0.56
2:A4:690:ALA:HB2	3:A6:398:THR:CA	2.21	0.56
2:A4:691:LYS:CD	3:A6:330:LEU:HG	2.35	0.56
2:A4:770:GLY:HA2	3:A6:528:ILE:HB	1.86	0.56
2:A4:802:TYR:OH	3:A6:467:LEU:C	2.39	0.56
2:A4:899:THR:HG1	3:A6:180:GLU:HG3	1.69	0.56
3:A5:1026:PRO:HG2	11:I5:73:TYR:CG	2.29	0.56
3:A5:1380:ALA:N	28:Z2:816:THR:H	2.02	0.56
8:F2:1336:GLU:N	8:F2:1336:GLU:OE1	2.36	0.56
11:I1:880:MET:CB	17:O1:247:TRP:O	2.53	0.56
11:I1:889:THR:H	17:O1:242:ARG:NH1	2.03	0.56
11:I1:896:PRO:HA	17:O1:232:LYS:C	2.26	0.56
11:I1:896:PRO:CA	17:O1:232:LYS:C	2.73	0.56
11:I1:1051:LYS:HA	17:O1:290:TYR:CD2	2.40	0.56
11:I1:1070:LEU:CB	16:N1:429:GLU:HB3	2.34	0.56
11:I2:354:ASP:OD1	11:I2:355:GLU:N	2.38	0.56
11:I2:841:PHE:HA	15:M3:591:ASP:OD2	2.05	0.56
11:I2:886:LEU:CD1	17:O3:245:GLU:HB3	2.23	0.56
11:I2:1045:PHE:C	17:O3:280:GLU:HA	2.26	0.56
11:I3:354:ASP:OD1	11:I3:355:GLU:N	2.38	0.56
11:I3:465:GLU:N	11:I3:465:GLU:OE1	2.38	0.56
11:I4:799:THR:O	11:I4:831:HIS:NE2	2.37	0.56
12:J5:249:ASP:OD1	12:J5:250:THR:N	2.37	0.56
21:S1:1052:LEU:HD21	21:S1:1073:ILE:CD1	2.32	0.56
25:W1:117:LEU:HB2	25:W1:153:TRP:NE1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Y4:238:GLY:HA2	27:Y4:305:GLY:O	2.05	0.56
28:Z2:288:VAL:HG12	28:Z2:300:MET:HB3	1.87	0.56
28:Z2:659:TYR:OH	28:Z2:744:VAL:HA	2.05	0.56
28:Z3:659:TYR:OH	28:Z3:744:VAL:HA	2.05	0.56
1:A1:1220:PRO:O	2:A2:646:ILE:HA	2.05	0.56
1:A1:1332:ARG:HH21	6:D1:685:VAL:CB	2.09	0.56
2:A2:779:ASP:CG	6:D1:679:ILE:O	2.42	0.56
2:A2:980:ARG:CA	6:D1:473:GLU:CG	2.77	0.56
2:A2:981:PRO:HB3	6:D1:502:LEU:N	2.20	0.56
2:A2:1126:VAL:C	3:A5:139:ASN:HB2	2.13	0.56
2:A2:1132:PRO:HD3	3:A5:160:ILE:CB	2.35	0.56
2:A2:1139:ILE:HG22	3:A5:135:PHE:CE2	2.38	0.56
2:A2:1156:ASP:HA	3:A5:166:LEU:C	2.21	0.56
1:A3:1048:ARG:NE	6:D3:819:ASN:HD21	1.48	0.56
1:A3:1056:PHE:CD2	6:D3:808:ASN:N	2.66	0.56
1:A3:1158:ALA:C	3:A6:647:GLU:HB3	2.22	0.56
1:A3:1186:TRP:CG	3:A6:640:LEU:N	2.71	0.56
1:A3:1194:HIS:HE1	3:A6:552:PHE:CD2	2.24	0.56
1:A3:1220:PRO:HB3	2:A4:732:GLN:OE1	2.05	0.56
1:A3:1332:ARG:O	6:D3:637:LYS:HG2	2.03	0.56
2:A4:648:TYR:O	3:A6:505:ALA:CB	2.53	0.56
2:A4:679:TYR:C	3:A6:102:CYS:SG	2.82	0.56
2:A4:694:GLN:OE1	3:A6:377:ASN:ND2	2.38	0.56
2:A4:711:VAL:HA	3:A6:490:PHE:HB2	0.57	0.56
2:A4:722:ASN:HB3	3:A6:513:GLN:CB	2.34	0.56
2:A4:724:LEU:CB	3:A6:496:THR:HG23	2.23	0.56
2:A4:828:ALA:HB1	3:A6:139:ASN:H	1.71	0.56
2:A4:856:PHE:CB	3:A6:167:TRP:HE1	2.18	0.56
2:A4:864:ARG:HG2	6:D3:609:ILE:H	1.71	0.56
2:A4:881:GLU:O	3:A6:173:ASN:CG	2.43	0.56
2:A4:901:ALA:CB	3:A6:133:LYS:HE2	2.35	0.56
2:A4:907:SER:C	6:D3:552:TYR:CZ	2.61	0.56
2:A4:978:ASP:HB2	6:D3:476:VAL:HG22	1.85	0.56
2:A4:987:LYS:NZ	6:D3:555:ARG:HG2	2.19	0.56
3:A5:1024:ASP:C	11:I5:68:ILE:CD1	2.71	0.56
3:A5:1396:GLY:HA3	28:Z2:908:LEU:HA	1.87	0.56
3:A5:1408:GLU:N	28:Z2:917:ASP:HA	2.19	0.56
3:A6:1402:ASP:HB3	26:X4:743:PHE:C	2.14	0.56
6:D4:201:LEU:O	6:D4:203:PRO:HD3	2.05	0.56
8:F2:581:PHE:O	8:F2:585:THR:OG1	2.21	0.56
8:F2:856:GLU:N	8:F2:856:GLU:OE1	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1137:GLN:HB2	17:O4:251:ILE:HD13	0.63	0.56
9:G2:256:GLN:N	17:O4:262:ASP:OD2	2.39	0.56
11:I1:354:ASP:OD1	11:I1:355:GLU:N	2.38	0.56
11:I1:917:TYR:O	15:M1:588:MET:CG	2.53	0.56
11:I1:945:LEU:HD23	17:O1:259:ASP:H	0.74	0.56
11:I1:1032:THR:O	15:M1:627:LEU:CD2	2.54	0.56
11:I1:1037:THR:CG2	20:R1:170:LEU:N	2.68	0.56
11:I1:1064:LYS:HB2	16:N1:427:VAL:HG11	1.84	0.56
11:I1:1109:LEU:CD2	17:O1:290:TYR:CE2	2.87	0.56
11:I1:1674:HIS:HD2	11:I2:1635:HIS:HD2	1.51	0.56
11:I2:94:GLU:N	11:I2:94:GLU:OE1	2.38	0.56
11:I2:834:SER:HB3	17:O3:237:PRO:O	2.03	0.56
11:I2:924:ILE:HB	15:M3:598:GLU:N	2.19	0.56
11:I2:932:VAL:HG13	15:M3:612:PRO:CB	2.33	0.56
11:I2:966:TRP:N	20:R3:154:ALA:CB	2.68	0.56
11:I2:1029:LEU:HD13	20:R3:174:ARG:HD2	1.87	0.56
11:I2:1041:GLN:O	17:O3:275:LEU:HD13	2.06	0.56
11:I2:1100:ILE:C	16:N3:433:GLU:OE2	2.42	0.56
11:I3:94:GLU:N	11:I3:94:GLU:OE1	2.38	0.56
11:I4:1276:GLN:HA	26:X3:520:GLU:CB	2.23	0.56
11:I5:354:ASP:OD1	11:I5:355:GLU:N	2.38	0.56
11:I5:799:THR:O	11:I5:831:HIS:NE2	2.37	0.56
17:O3:155:VAL:HG23	18:P3:321:ILE:HD13	0.62	0.56
21:S1:596:ILE:C	21:S2:1120:PRO:HD2	2.25	0.56
21:S1:666:THR:O	21:S2:1149:GLU:CB	2.54	0.56
21:S1:678:GLU:O	21:S2:1127:GLN:HG3	1.84	0.56
21:S1:1032:ILE:HD12	21:S1:1051:ALA:CA	2.36	0.56
21:S2:1020:LEU:H	21:S2:1020:LEU:HD22	1.70	0.56
21:S2:1124:ASP:O	21:S2:1127:GLN:N	2.32	0.56
21:S3:184:ILE:HD11	21:S3:201:VAL:CG2	2.34	0.56
21:S3:384:ASP:N	21:S3:384:ASP:OD1	2.38	0.56
21:S3:940:GLU:OE1	21:S3:949:ALA:HA	2.05	0.56
22:T1:779:GLN:N	22:T1:780:PRO:HD3	2.19	0.56
22:T2:669:ARG:HA	22:T2:672:ILE:HG22	1.87	0.56
22:T4:669:ARG:HA	22:T4:672:ILE:HG22	1.87	0.56
23:U1:280:SER:HB2	23:U1:284:SER:HB3	1.86	0.56
23:U3:210:MET:O	24:V3:325:TYR:OH	2.21	0.56
24:V3:156:THR:HG22	24:V3:514:ARG:HD2	1.88	0.56
24:V4:359:TYR:HA	24:V4:362:LEU:HD12	1.86	0.56
26:X2:271:LEU:O	26:X2:275:SER:HB3	2.04	0.56
1:A1:1332:ARG:HB2	6:D1:636:ASP:OD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1400:SER:HA	2:A2:881:GLU:OE2	2.06	0.56
2:A2:867:GLU:OE1	6:D1:593:ARG:NH2	2.39	0.56
2:A2:1155:ASN:CG	5:C2:735:ILE:HA	2.25	0.56
1:A3:1199:GLN:O	3:A6:91:LEU:CD2	2.47	0.56
1:A3:1201:ARG:HG3	3:A6:549:ALA:CA	2.31	0.56
1:A3:1235:ILE:CG1	3:A6:617:VAL:HG21	2.35	0.56
2:A4:90:GLN:CB	3:A6:407:SER:OG	2.53	0.56
2:A4:755:GLN:H	3:A6:540:GLN:H	1.52	0.56
2:A4:759:ALA:C	3:A6:388:GLU:CD	2.63	0.56
2:A4:951:GLU:HA	4:B6:346:LEU:CA	2.29	0.56
3:A6:484:PRO:CB	6:D3:676:ALA:HB2	2.21	0.56
6:D5:201:LEU:O	6:D5:203:PRO:HD3	2.05	0.56
11:I2:890:TYR:HB2	17:O3:242:ARG:HG3	1.86	0.56
11:I2:935:GLY:HA2	15:M3:606:LEU:C	2.25	0.56
11:I2:942:HIS:CG	17:O3:259:ASP:O	2.54	0.56
11:I4:354:ASP:OD1	11:I4:355:GLU:N	2.38	0.56
11:I4:747:GLU:N	11:I4:747:GLU:OE1	2.38	0.56
11:I4:819:MET:CG	26:X3:501:LYS:CD	2.81	0.56
17:O3:151:LEU:HD21	18:P3:325:ILE:CG1	0.93	0.56
21:S2:384:ASP:OD1	21:S2:384:ASP:N	2.38	0.56
21:S3:1032:ILE:HD12	21:S3:1051:ALA:CA	2.36	0.56
26:X1:159:ILE:HG21	26:X1:176:GLU:HG2	1.87	0.56
26:X3:163:LYS:HD2	26:X3:172:PHE:CZ	2.39	0.56
26:X4:271:LEU:O	26:X4:275:SER:HB3	2.04	0.56
27:Y2:238:GLY:HA2	27:Y2:305:GLY:O	2.05	0.56
28:Z1:101:SER:HA	28:Z1:123:LEU:HA	1.87	0.56
28:Z3:342:LEU:HD13	28:Z3:379:ILE:HD12	1.86	0.56
1:A1:1401:VAL:N	2:A2:884:ARG:NH1	2.51	0.56
2:A2:780:GLU:CG	6:D1:677:GLN:O	2.52	0.56
2:A2:872:ALA:N	2:A2:873:PRO:HD2	2.18	0.56
2:A2:877:ALA:HA	6:D1:563:GLU:HA	1.87	0.56
2:A2:992:TYR:CB	6:D1:238:ALA:CB	2.83	0.56
2:A4:238:ARG:HH12	4:B4:349:MET:CE	2.19	0.56
2:A4:689:LYS:NZ	3:A6:336:ILE:CG2	2.58	0.56
2:A4:718:GLU:HG3	3:A6:491:VAL:C	2.25	0.56
2:A4:779:ASP:OD1	6:D3:674:TYR:O	2.00	0.56
2:A4:781:ARG:HH21	6:D3:633:LYS:HZ3	1.53	0.56
2:A4:795:GLN:C	3:A6:250:PHE:CE2	2.76	0.56
2:A4:892:SER:C	3:A6:155:TYR:CE2	2.79	0.56
2:A4:908:LEU:HD22	6:D3:566:PHE:CE2	2.41	0.56
2:A4:977:VAL:HG13	6:D3:476:VAL:HG21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:147:LEU:N	5:C2:747:PRO:HG3	2.17	0.56
3:A5:232:LEU:HD21	5:C2:739:MET:C	2.25	0.56
3:A5:991:ALA:O	11:I5:57:GLU:HG3	2.05	0.56
3:A5:1056:PHE:CD2	11:I5:37:GLU:HG3	2.35	0.56
4:B5:344:ALA:HB1	5:C2:737:LYS:HB3	1.86	0.56
11:I1:840:LEU:CD2	17:O1:244:GLU:HG2	2.36	0.56
11:I1:873:ILE:CG2	17:O1:254:ARG:HD2	2.21	0.56
11:I1:919:ALA:HB1	16:N1:392:THR:OG1	1.97	0.56
11:I1:925:LEU:HD11	20:R1:163:LEU:HA	1.87	0.56
11:I1:932:VAL:C	15:M1:601:ASP:O	2.44	0.56
11:I1:940:LEU:CA	17:O1:259:ASP:O	2.54	0.56
11:I1:976:ARG:NH2	15:M1:622:VAL:CB	2.66	0.56
11:I1:999:SER:HB2	17:O1:264:ILE:HG21	1.88	0.56
11:I1:1023:ASP:CB	16:N1:405:ALA:HB3	2.34	0.56
11:I1:1112:SER:HB3	12:J1:241:THR:HB	1.87	0.56
11:I2:1055:GLU:O	17:O3:277:GLU:C	2.44	0.56
11:I2:1108:PRO:C	17:O3:290:TYR:OH	2.43	0.56
11:I3:1182:GLN:CG	12:J3:245:GLU:OE2	2.51	0.56
11:I4:819:MET:HE1	27:Y3:178:PHE:CZ	2.22	0.56
11:I5:1112:SER:HB3	12:J5:241:THR:HB	1.87	0.56
17:O3:102:LYS:N	18:P3:322:LYS:HD3	1.88	0.56
18:P1:278:ASN:CB	18:P4:322:LYS:HA	2.24	0.56
21:S1:940:GLU:OE1	21:S1:949:ALA:HA	2.05	0.56
23:U3:71:GLU:OE1	23:U3:75:TRP:NE1	2.36	0.56
23:U3:276:VAL:CA	25:W4:192:GLN:NE2	2.15	0.56
23:U4:163:ARG:HD3	24:V4:292:ILE:HD11	1.88	0.56
24:V3:359:TYR:HA	24:V3:362:LEU:HD12	1.86	0.56
24:V4:433:GLU:OE1	24:V4:467:SER:OG	2.20	0.56
25:W2:200:LEU:HD11	25:W2:243:TRP:CD1	2.41	0.56
28:Z2:101:SER:HA	28:Z2:123:LEU:HA	1.87	0.56
28:Z3:288:VAL:HG12	28:Z3:300:MET:HB3	1.88	0.56
28:Z4:659:TYR:OH	28:Z4:744:VAL:HA	2.05	0.56
2:A2:858:ALA:C	6:D1:606:LYS:CE	2.47	0.56
2:A2:909:LYS:NZ	6:D1:601:PHE:CD1	2.73	0.56
2:A2:985:ALA:O	6:D1:500:LYS:CD	2.53	0.56
2:A2:1132:PRO:CD	3:A5:160:ILE:CB	2.83	0.56
1:A3:1017:THR:HG22	6:D3:819:ASN:HB3	0.59	0.56
1:A3:1021:LEU:HD11	6:D3:819:ASN:CG	2.24	0.56
1:A3:1201:ARG:HG2	2:A4:728:LYS:HA	1.70	0.56
1:A3:1397:LEU:HA	3:A6:172:PRO:HG3	1.86	0.56
2:A4:80:LYS:HG2	3:A6:386:ALA:HB3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:92:ASP:O	3:A6:365:MET:CG	2.50	0.56
2:A4:172:PRO:CB	6:D3:781:ARG:CD	2.83	0.56
2:A4:553:ASP:CA	3:A6:435:PRO:HD2	2.35	0.56
2:A4:706:PRO:HG2	3:A6:460:ARG:O	2.05	0.56
2:A4:726:ALA:HA	3:A6:575:LEU:HD22	1.88	0.56
2:A4:753:GLU:CB	3:A6:93:ASP:O	2.52	0.56
2:A4:790:ASP:CA	3:A6:187:THR:HG22	2.26	0.56
2:A4:801:THR:HA	3:A6:379:VAL:C	2.25	0.56
2:A4:947:LYS:H	4:B6:351:GLU:CB	2.17	0.56
2:A4:947:LYS:HE2	3:A6:203:ILE:HG12	1.87	0.56
3:A5:175:GLU:HB3	5:C2:733:LEU:HD13	1.88	0.56
3:A5:1363:ASP:HB2	28:Z2:875:LEU:N	2.20	0.56
3:A6:1416:ARG:O	28:Z4:1000:TYR:O	2.14	0.56
6:D2:612:VAL:HG12	6:D2:628:LEU:HD13	1.88	0.56
8:F1:1261:TYR:O	17:O2:262:ASP:C	2.42	0.56
11:I1:890:TYR:CE1	17:O1:240:GLY:CA	2.88	0.56
11:I1:896:PRO:HA	17:O1:233:THR:N	2.20	0.56
11:I1:986:ASN:O	15:M1:611:LYS:CA	2.52	0.56
11:I1:1665:LEU:HD23	11:I2:1667:GLN:C	2.26	0.56
11:I2:897:GLU:CB	17:O3:236:ASP:OD2	2.43	0.56
11:I2:983:LEU:HD21	15:M3:604:ASN:HD22	1.71	0.56
11:I2:995:SER:O	17:O3:267:ALA:HB3	2.05	0.56
11:I2:1040:HIS:HB3	15:M3:619:ILE:CG2	2.08	0.56
11:I3:77:GLU:OE1	11:I3:77:GLU:N	2.38	0.56
21:S1:374:THR:OG1	21:S1:387:THR:OG1	2.24	0.56
21:S3:680:PRO:CB	21:S4:1097:LYS:HZ1	2.19	0.56
21:S3:681:SER:O	21:S4:1144:LEU:O	2.24	0.56
23:U1:222:VAL:CG1	24:V1:256:VAL:HA	2.36	0.56
23:U2:237:ILE:HD11	23:U2:240:HIS:HA	1.87	0.56
24:V1:156:THR:HG22	24:V1:514:ARG:HD2	1.88	0.56
24:V2:199:THR:HB	24:V2:213:GLU:HB2	1.87	0.56
24:V4:156:THR:HG22	24:V4:514:ARG:HD2	1.88	0.56
27:Y3:238:GLY:HA2	27:Y3:305:GLY:O	2.05	0.56
28:Z1:659:TYR:OH	28:Z1:744:VAL:HA	2.05	0.56
2:A2:1150:LEU:CD2	3:A5:173:ASN:HD22	2.05	0.56
2:A2:1277:TRP:CG	2:A2:1278:PRO:HD3	2.41	0.56
1:A3:1164:TYR:N	3:A6:648:TYR:HD2	2.01	0.56
1:A3:1224:PRO:HG2	2:A4:734:LEU:HD22	1.87	0.56
1:A3:1274:ASP:HB2	3:A6:556:PRO:CA	2.16	0.56
2:A4:607:ARG:HA	3:A6:506:SER:CA	2.35	0.56
2:A4:707:THR:CG2	3:A6:401:GLY:HA3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:727:ASN:CB	3:A6:497:GLY:CA	2.47	0.56
2:A4:728:LYS:HG2	3:A6:548:LEU:HD23	1.85	0.56
2:A4:897:ASN:CB	3:A6:177:ILE:N	2.66	0.56
2:A4:900:THR:CB	3:A6:137:HIS:NE2	2.69	0.56
3:A6:520:GLU:HG2	6:D3:639:LEU:CB	2.34	0.56
3:A6:1359:LEU:HB3	28:Z4:918:PHE:H	1.70	0.56
3:A6:1399:ARG:HH22	28:Z4:968:ARG:N	1.88	0.56
11:I1:921:GLU:HA	15:M1:596:ILE:CG1	2.34	0.56
11:I1:1036:PRO:CA	16:N1:441:PHE:HE2	2.19	0.56
11:I1:1114:VAL:HG11	16:N1:436:ALA:HB2	1.88	0.56
11:I2:828:VAL:O	17:O3:237:PRO:HB3	2.03	0.56
11:I2:882:LYS:CG	17:O3:249:ARG:CA	2.74	0.56
11:I2:996:LEU:CD1	15:M3:607:SER:O	2.52	0.56
11:I2:1052:LEU:HD23	16:N3:438:LEU:HD11	1.77	0.56
17:O3:158:GLU:CG	18:P3:315:GLU:C	2.66	0.56
21:S2:176:MET:HE3	21:S2:232:LEU:HD13	1.88	0.56
21:S2:1052:LEU:HD21	21:S2:1073:ILE:CD1	2.32	0.56
21:S4:176:MET:HE1	21:S4:232:LEU:HD12	1.88	0.56
23:U2:163:ARG:HD3	24:V2:292:ILE:HD11	1.88	0.56
23:U3:163:ARG:HD3	24:V3:292:ILE:HD11	1.88	0.56
23:U4:222:VAL:CG1	24:V4:256:VAL:HA	2.36	0.56
24:V4:180:LEU:HD11	24:V4:478:PHE:HE1	1.71	0.56
26:X3:145:ASN:OD1	26:X3:190:PHE:HA	2.04	0.56
1:A1:870:HIS:HB2	6:D3:280:GLN:HA	1.81	0.56
2:A2:238:ARG:HH12	4:B2:349:MET:CE	2.19	0.56
2:A2:869:ALA:O	6:D1:570:VAL:HA	1.91	0.56
2:A2:1126:VAL:CA	3:A5:135:PHE:O	2.44	0.56
1:A3:1236:GLN:CB	3:A6:581:LYS:CB	2.54	0.56
1:A3:1277:TRP:HB2	3:A6:556:PRO:CG	2.21	0.56
2:A4:572:ARG:O	3:A6:454:GLN:CD	2.33	0.56
2:A4:652:PRO:CA	3:A6:542:LEU:HD11	2.28	0.56
2:A4:718:GLU:HB2	3:A6:491:VAL:O	2.06	0.56
2:A4:737:PRO:HD3	3:A6:93:ASP:OD1	2.05	0.56
2:A4:769:GLU:CA	3:A6:528:ILE:CG2	2.80	0.56
2:A4:775:LEU:CD1	3:A6:478:ASP:O	2.54	0.56
2:A4:826:ASN:OD1	3:A6:564:ASN:O	2.24	0.56
2:A4:859:GLN:HG3	3:A6:131:PRO:CG	2.36	0.56
2:A4:865:ALA:N	6:D3:604:ASP:O	2.38	0.56
2:A4:975:GLU:CG	6:D3:501:LEU:CB	2.58	0.56
3:A6:1377:ARG:N	28:Z4:830:LEU:CB	2.69	0.56
7:E1:91:VAL:O	7:E1:91:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1290:VAL:O	8:F2:1290:VAL:HG12	2.06	0.56
11:I1:959:SER:HA	16:N1:395:GLU:CG	2.36	0.56
11:I1:1044:GLY:O	17:O1:280:GLU:OE2	2.23	0.56
11:I2:891:LEU:CG	16:N3:393:ILE:CD1	2.82	0.56
17:O4:109:PRO:CD	18:P4:318:PRO:CB	2.82	0.56
17:O4:110:LEU:HB3	18:P4:321:ILE:CG2	2.36	0.56
18:P1:278:ASN:HB3	18:P4:322:LYS:CA	2.34	0.56
21:S1:1020:LEU:H	21:S1:1020:LEU:HD22	1.70	0.56
22:T3:669:ARG:HA	22:T3:672:ILE:HG22	1.87	0.56
23:U3:237:ILE:HD11	23:U3:240:HIS:HA	1.87	0.56
23:U3:277:LEU:N	25:W4:192:GLN:HE21	1.65	0.56
23:U4:34:ASP:HB3	23:U4:35:PRO:HD3	1.88	0.56
1:A3:1161:ALA:HB3	3:A6:647:GLU:O	2.06	0.56
1:A3:1200:ARG:CG	3:A6:609:GLU:HG3	2.22	0.56
1:A3:1265:ASN:CA	3:A6:683:LEU:CD1	2.63	0.56
1:A3:1271:ILE:HG21	3:A6:553:ASP:HB2	1.64	0.56
2:A4:84:VAL:N	3:A6:324:ARG:NH1	2.53	0.56
2:A4:732:GLN:HA	3:A6:92:ASP:CA	2.30	0.56
2:A4:771:ILE:HG21	3:A6:490:PHE:O	2.06	0.56
2:A4:879:LEU:CG	6:D3:564:ASN:OD1	2.49	0.56
2:A4:880:ALA:CB	6:D3:558:LYS:CD	2.83	0.56
3:A5:1387:ILE:CD1	28:Z2:830:LEU:CB	2.84	0.56
3:A5:1399:ARG:HD3	28:Z2:909:LEU:HA	1.86	0.56
3:A6:1368:GLN:HB2	28:Z4:875:LEU:CA	2.33	0.56
11:I1:850:ILE:HG12	15:M1:594:LYS:HG3	1.88	0.56
11:I1:878:GLN:NE2	17:O1:252:VAL:CG1	2.69	0.56
11:I1:890:TYR:CZ	17:O1:240:GLY:CA	2.88	0.56
11:I1:916:ALA:HB2	15:M1:586:ASP:CB	2.34	0.56
11:I1:1017:VAL:HG22	17:O1:260:LEU:HD22	1.87	0.56
11:I1:1059:PRO:N	17:O1:276:GLY:O	2.03	0.56
11:I1:1104:LEU:HD22	16:N1:433:GLU:O	2.05	0.56
11:I2:747:GLU:N	11:I2:747:GLU:OE1	2.38	0.56
11:I2:900:ARG:CB	17:O3:232:LYS:CG	2.67	0.56
11:I2:925:LEU:HA	15:M3:597:LYS:CG	2.34	0.56
11:I2:978:LYS:HZ1	20:R3:153:GLN:C	2.09	0.56
11:I2:980:ILE:HB	15:M3:618:GLN:HG2	1.85	0.56
11:I2:1031:ALA:HB3	20:R3:168:LEU:CD2	2.25	0.56
11:I2:1045:PHE:HB3	17:O3:283:ALA:CB	2.35	0.56
21:S4:1032:ILE:HD12	21:S4:1051:ALA:CA	2.36	0.56
23:U3:222:VAL:CG1	24:V3:256:VAL:HA	2.36	0.56
26:X2:159:ILE:HG21	26:X2:176:GLU:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:865:ALA:CA	6:D1:604:ASP:O	2.52	0.56
2:A2:874:VAL:CG1	6:D1:608:ILE:HA	2.36	0.56
2:A2:988:ARG:N	6:D1:500:LYS:NZ	2.53	0.56
1:A3:1021:LEU:HD12	6:D3:819:ASN:HB2	1.88	0.56
1:A3:1189:LEU:CD1	3:A6:583:LEU:CD2	2.84	0.56
1:A3:1189:LEU:CB	3:A6:641:ALA:CB	2.51	0.56
1:A3:1321:MET:HE3	3:A6:571:ARG:HH22	1.10	0.56
2:A4:544:PHE:HA	3:A6:362:PHE:O	1.84	0.56
2:A4:691:LYS:CA	3:A6:316:ARG:CZ	2.84	0.56
2:A4:720:LEU:CA	3:A6:495:ASP:CA	2.73	0.56
2:A4:878:LEU:CD2	6:D3:607:PRO:C	2.74	0.56
2:A4:897:ASN:CA	3:A6:177:ILE:C	2.72	0.56
2:A4:989:MSE:CE	6:D3:242:LEU:N	2.41	0.56
3:A5:177:ILE:C	5:C2:740:ARG:NE	2.50	0.56
3:A5:220:VAL:CG1	5:C2:738:ASP:C	2.69	0.56
3:A5:1033:GLN:HE22	11:I5:71:GLU:CG	2.17	0.56
3:A5:1310:ARG:NE	28:Z2:827:GLN:O	2.39	0.56
3:A5:1368:GLN:HB2	28:Z2:841:ALA:C	2.26	0.56
11:I1:1607:GLN:OE1	11:I2:1735:PHE:C	2.44	0.56
11:I1:1635:HIS:HD2	11:I2:1674:HIS:HD2	1.53	0.56
11:I2:877:ILE:CA	17:O3:254:ARG:CB	2.64	0.56
11:I2:946:THR:C	17:O3:260:LEU:CD2	2.72	0.56
11:I2:981:VAL:CG1	20:R3:147:LEU:HG	2.36	0.56
11:I2:1109:LEU:CB	16:N3:441:PHE:HB2	2.36	0.56
11:I2:1114:VAL:CG2	16:N3:435:ALA:N	2.35	0.56
11:I3:747:GLU:N	11:I3:747:GLU:OE1	2.38	0.56
11:I3:1112:SER:HB3	12:J3:241:THR:HB	1.87	0.56
12:J2:249:ASP:OD1	12:J2:250:THR:N	2.37	0.56
21:S1:384:ASP:N	21:S1:384:ASP:OD1	2.38	0.56
23:U1:155:SER:HA	24:V1:351:ILE:HA	1.88	0.56
23:U2:222:VAL:CG1	24:V2:256:VAL:HA	2.36	0.56
23:U3:34:ASP:HB3	23:U3:35:PRO:HD3	1.88	0.56
23:U3:155:SER:HA	24:V3:351:ILE:HA	1.88	0.56
28:Z1:232:ARG:NE	28:Z1:249:THR:OG1	2.39	0.56
28:Z1:537:THR:CG2	28:Z1:743:ASN:HA	2.31	0.56
2:A2:874:VAL:CG2	6:D1:611:LYS:CG	2.71	0.55
2:A2:909:LYS:NZ	6:D1:601:PHE:HD1	2.04	0.55
1:A3:1189:LEU:HG	3:A6:583:LEU:HD21	1.88	0.55
1:A3:1251:VAL:N	3:A6:633:MET:CA	2.62	0.55
1:A3:1261:TYR:CB	3:A6:621:GLN:CG	1.88	0.55
1:A3:1310:ARG:HH11	3:A6:708:SER:HB3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:547:GLU:CG	3:A6:366:ALA:O	2.54	0.55
2:A4:691:LYS:HD3	3:A6:330:LEU:HG	1.87	0.55
2:A4:779:ASP:C	6:D3:679:ILE:CB	2.59	0.55
2:A4:853:VAL:HA	3:A6:128:HIS:HB3	1.87	0.55
3:A5:232:LEU:HD23	5:C2:737:LYS:C	2.23	0.55
3:A5:1098:ARG:CZ	11:I5:29:GLN:HB3	2.34	0.55
3:A5:1356:SER:O	28:Z2:876:LEU:O	2.24	0.55
3:A6:518:GLU:O	6:D3:686:ASP:HB3	2.05	0.55
3:A6:521:ASN:CG	6:D3:674:TYR:CD1	2.79	0.55
6:D6:612:VAL:HG12	6:D6:628:LEU:HD13	1.88	0.55
8:F2:1095:TYR:CE1	17:O4:241:SER:HB2	2.33	0.55
9:G1:263:MET:HB3	17:O2:260:LEU:CB	2.37	0.55
11:I1:797:LEU:HB3	17:O1:245:GLU:CD	2.25	0.55
11:I1:881:ILE:CG1	17:O1:249:ARG:C	2.74	0.55
11:I1:945:LEU:C	17:O1:256:TYR:CD2	2.80	0.55
11:I1:952:LEU:CD1	16:N1:400:LEU:CD1	2.83	0.55
11:I1:981:VAL:HG12	20:R1:151:LYS:CB	2.04	0.55
11:I1:1061:ASP:HB2	17:O1:279:ILE:HD12	1.88	0.55
11:I1:1108:PRO:HG3	16:N1:444:SER:N	2.20	0.55
11:I2:717:GLU:N	11:I2:717:GLU:OE1	2.39	0.55
11:I2:882:LYS:HB2	17:O3:249:ARG:N	2.21	0.55
11:I2:899:LEU:HA	17:O3:235:ASN:HB2	1.89	0.55
11:I4:820:ALA:N	26:X3:501:LYS:HZ3	2.05	0.55
17:O4:111:TYR:OH	18:P4:321:ILE:CD1	2.54	0.55
22:T3:779:GLN:N	22:T3:780:PRO:HD3	2.19	0.55
22:T4:680:PHE:O	22:T4:682:PRO:HD3	2.06	0.55
26:X1:163:LYS:HB2	26:X1:172:PHE:CE1	2.41	0.55
26:X1:536:LYS:O	26:X1:540:THR:OG1	2.20	0.55
26:X2:508:LEU:HG	26:X2:522:MET:HE3	1.88	0.55
28:Z1:288:VAL:HG12	28:Z1:300:MET:HB3	1.88	0.55
1:A1:1333:ARG:C	6:D1:637:LYS:CD	2.73	0.55
2:A2:782:VAL:H	6:D1:676:ALA:C	2.09	0.55
2:A2:988:ARG:H	6:D1:500:LYS:HZ1	1.52	0.55
2:A2:1125:LEU:HB2	3:A5:135:PHE:N	2.17	0.55
1:A3:1048:ARG:HH21	6:D3:815:GLU:CG	2.19	0.55
1:A3:1227:PRO:CG	3:A6:682:ARG:CD	2.57	0.55
1:A3:1268:ASP:N	3:A6:553:ASP:C	2.59	0.55
2:A4:541:PRO:O	3:A6:364:HIS:N	2.40	0.55
2:A4:792:VAL:H	3:A6:187:THR:CG2	2.16	0.55
2:A4:806:PHE:CD2	3:A6:382:SER:CB	2.89	0.55
2:A4:905:MSE:HE3	3:A6:133:LYS:NZ	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:949:PHE:CD2	4:B6:348:PRO:HD3	2.41	0.55
2:A4:955:CYS:N	4:B6:345:LYS:N	2.55	0.55
3:A5:1379:GLY:O	28:Z2:811:LEU:O	2.24	0.55
3:A6:1395:LYS:CA	28:Z4:919:PHE:C	2.65	0.55
6:D7:585:GLY:O	6:D7:631:LEU:HD11	2.06	0.55
8:F1:1093:LEU:HD11	17:O2:241:SER:N	2.16	0.55
8:F2:650:ASN:OD1	8:F2:651:THR:N	2.40	0.55
11:I1:958:THR:HB	16:N1:399:HIS:CA	2.37	0.55
11:I1:980:ILE:HG12	15:M1:621:ARG:HB3	1.87	0.55
11:I1:986:ASN:HB2	15:M1:612:PRO:HD2	1.88	0.55
11:I1:1543:LEU:HD13	11:I2:1677:LYS:NZ	2.20	0.55
11:I2:934:LEU:HD13	15:M3:603:SER:N	1.79	0.55
11:I2:962:ILE:HG12	15:M3:600:ASN:ND2	2.21	0.55
11:I2:991:THR:N	15:M3:611:LYS:HB2	2.08	0.55
11:I2:1029:LEU:N	20:R3:171:ALA:C	2.60	0.55
11:I5:1284:GLU:N	11:I5:1284:GLU:OE1	2.38	0.55
17:O3:101:ASN:CG	18:P3:322:LYS:HG2	2.22	0.55
21:S1:677:TYR:HA	21:S2:1128:ALA:CB	2.35	0.55
22:T1:885:ARG:HG3	22:T1:885:ARG:NH1	2.17	0.55
23:U1:163:ARG:HD3	24:V1:292:ILE:HD11	1.88	0.55
23:U4:237:ILE:HD11	23:U4:240:HIS:HA	1.87	0.55
26:X2:536:LYS:O	26:X2:540:THR:OG1	2.20	0.55
27:Y1:238:GLY:HA2	27:Y1:305:GLY:O	2.05	0.55
1:A1:1197:ALA:HB1	2:A2:728:LYS:CG	2.35	0.55
2:A2:235:TYR:OH	4:B2:347:LEU:HD12	2.05	0.55
2:A2:826:ASN:OD1	6:D1:633:LYS:HG3	2.06	0.55
2:A2:864:ARG:HE	6:D1:632:ALA:CB	2.19	0.55
2:A2:1137:ALA:CB	3:A5:564:ASN:CA	2.83	0.55
2:A2:1143:LEU:N	3:A5:130:ILE:C	2.60	0.55
1:A3:1083:SER:OG	6:D3:798:MET:SD	0.58	0.55
1:A3:1121:LEU:CA	3:A6:599:ARG:NH2	2.69	0.55
1:A3:1261:TYR:CE2	3:A6:616:ALA:CA	2.89	0.55
2:A4:544:PHE:N	3:A6:362:PHE:C	2.56	0.55
2:A4:687:LEU:HD21	3:A6:403:ARG:HG2	1.89	0.55
2:A4:720:LEU:CA	3:A6:512:GLU:CA	2.64	0.55
2:A4:852:ASP:OD2	3:A6:155:TYR:N	2.38	0.55
3:A6:115:SER:CB	6:D3:683:LYS:HG2	2.37	0.55
8:F1:1205:TRP:HE1	17:O2:251:ILE:HG23	0.74	0.55
8:F1:1290:VAL:O	8:F1:1290:VAL:HG12	2.06	0.55
9:G1:263:MET:CE	16:N2:411:GLN:HG2	2.36	0.55
11:I1:77:GLU:N	11:I1:77:GLU:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:882:LYS:HE3	17:O1:245:GLU:HG2	1.89	0.55
11:I1:955:LYS:CB	16:N1:400:LEU:HG	2.34	0.55
11:I1:959:SER:CA	16:N1:395:GLU:CB	2.58	0.55
11:I1:1048:GLU:CD	17:O1:288:GLU:HG3	2.27	0.55
11:I1:1669:ARG:HB2	11:I2:1664:PHE:HE1	0.81	0.55
11:I2:935:GLY:HA2	15:M3:606:LEU:CA	2.13	0.55
11:I2:952:LEU:HD11	15:M3:599:ILE:CG1	2.34	0.55
11:I2:1030:ARG:HE	20:R3:179:LYS:HE2	1.71	0.55
11:I2:1049:LEU:HA	15:M3:622:VAL:HG11	1.88	0.55
11:I4:819:MET:SD	27:Y3:178:PHE:CE1	3.00	0.55
17:O4:109:PRO:C	18:P4:318:PRO:HB3	2.25	0.55
21:S2:176:MET:HE1	21:S2:232:LEU:CD1	2.36	0.55
21:S2:374:THR:OG1	21:S2:387:THR:OG1	2.24	0.55
21:S2:868:ASP:O	21:S2:869:PHE:C	2.44	0.55
21:S2:940:GLU:OE1	21:S2:949:ALA:HA	2.05	0.55
21:S4:940:GLU:OE1	21:S4:949:ALA:HA	2.05	0.55
22:T4:885:ARG:HG3	22:T4:885:ARG:NH1	2.17	0.55
23:U2:210:MET:O	24:V2:325:TYR:OH	2.21	0.55
24:V1:180:LEU:HD11	24:V1:478:PHE:HE1	1.71	0.55
24:V2:156:THR:HG22	24:V2:514:ARG:HD2	1.88	0.55
25:W1:200:LEU:HD11	25:W1:243:TRP:CD1	2.41	0.55
25:W2:49:LEU:HB3	25:W2:82:TRP:CZ3	2.42	0.55
25:W4:200:LEU:HD11	25:W4:243:TRP:CD1	2.41	0.55
2:A2:225:THR:HG21	6:D1:706:HIS:CG	2.42	0.55
2:A2:872:ALA:HB2	6:D1:565:MET:HE3	1.88	0.55
1:A3:1182:ILE:HG22	3:A6:639:ASN:ND2	2.19	0.55
1:A3:1221:ILE:HD12	2:A4:614:ALA:C	2.27	0.55
1:A3:1396:GLY:HA2	3:A6:171:HIS:NE2	2.16	0.55
2:A4:86:ASN:HA	3:A6:406:LEU:HB2	1.88	0.55
2:A4:97:ASP:HB3	3:A6:364:HIS:CD2	2.42	0.55
2:A4:574:ARG:HH21	3:A6:455:LEU:C	2.10	0.55
2:A4:868:GLN:CA	6:D3:598:ILE:HB	2.18	0.55
2:A4:869:ALA:HB2	6:D3:583:ILE:HG21	1.88	0.55
2:A4:978:ASP:OD1	6:D3:463:PHE:CE1	2.60	0.55
3:A5:1029:ILE:CA	11:I5:68:ILE:N	2.61	0.55
3:A5:1056:PHE:CZ	11:I5:38:GLN:HA	2.37	0.55
3:A6:444:ARG:CB	6:D3:737:PHE:CE2	2.89	0.55
3:A6:1391:ARG:CA	28:Z4:908:LEU:O	2.53	0.55
6:D1:585:GLY:O	6:D1:631:LEU:HD11	2.06	0.55
6:D6:585:GLY:O	6:D6:631:LEU:HD11	2.07	0.55
8:F1:650:ASN:OD1	8:F1:651:THR:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:934:LEU:N	15:M1:602:MET:CA	2.15	0.55
11:I1:939:ASN:HA	17:O1:264:ILE:O	2.05	0.55
11:I1:948:ALA:N	17:O1:256:TYR:CD2	2.74	0.55
11:I1:980:ILE:O	15:M1:618:GLN:HG3	2.06	0.55
11:I1:994:ALA:N	17:O1:271:GLU:HG3	2.04	0.55
11:I1:1049:LEU:O	17:O1:291:ASP:HB2	2.06	0.55
11:I1:1736:LEU:CG	11:I2:1607:GLN:NE2	2.68	0.55
11:I2:797:LEU:HD13	17:O3:245:GLU:HA	0.63	0.55
11:I2:840:LEU:CB	17:O3:247:TRP:HD1	2.10	0.55
11:I2:842:ASN:O	15:M3:591:ASP:OD1	2.25	0.55
11:I2:1030:ARG:H	20:R3:173:LEU:N	1.98	0.55
11:I2:1036:PRO:HD2	15:M3:626:HIS:HB2	1.89	0.55
11:I2:1039:ALA:CB	20:R3:170:LEU:HG	0.24	0.55
15:M4:598:GLU:OE1	17:O4:254:ARG:NH1	2.40	0.55
17:O3:148:ARG:CD	18:P3:325:ILE:CG2	2.83	0.55
24:V2:180:LEU:HD11	24:V2:478:PHE:HE1	1.71	0.55
25:W3:49:LEU:HB3	25:W3:82:TRP:CZ3	2.42	0.55
25:W3:200:LEU:HD11	25:W3:243:TRP:CD1	2.41	0.55
25:W4:49:LEU:HB3	25:W4:82:TRP:CZ3	2.42	0.55
26:X2:163:LYS:HB2	26:X2:172:PHE:CE1	2.41	0.55
26:X4:508:LEU:HG	26:X4:522:MET:HE3	1.88	0.55
27:Y3:128:LEU:HD23	27:Y3:169:PHE:HB3	1.89	0.55
28:Z2:245:ILE:HG21	28:Z2:311:LEU:HD23	1.88	0.55
2:A2:1156:ASP:C	3:A5:176:LEU:HA	1.88	0.55
1:A3:1084:ARG:HA	6:D3:794:THR:CA	2.32	0.55
1:A3:1268:ASP:OD2	3:A6:709:LYS:NZ	2.36	0.55
1:A3:1271:ILE:CD1	3:A6:552:PHE:H	2.19	0.55
1:A3:1332:ARG:CZ	6:D3:636:ASP:CG	2.63	0.55
2:A4:576:VAL:HG12	3:A6:509:LYS:NZ	2.21	0.55
2:A4:806:PHE:CD2	3:A6:470:ARG:CB	2.89	0.55
2:A4:853:VAL:HG23	3:A6:169:TYR:HD1	1.72	0.55
2:A4:855:THR:CG2	3:A6:168:ASP:CA	2.84	0.55
2:A4:891:GLY:O	3:A6:232:LEU:O	2.24	0.55
2:A4:1277:TRP:CG	2:A4:1278:PRO:HD3	2.41	0.55
3:A5:996:ASN:OD1	11:I5:56:ARG:N	2.39	0.55
3:A5:1031:TYR:H	11:I5:67:LYS:CG	2.19	0.55
6:D1:612:VAL:HG12	6:D1:628:LEU:HD13	1.88	0.55
11:I1:877:ILE:CG1	17:O1:251:ILE:O	2.54	0.55
11:I1:922:ASP:C	15:M1:592:LEU:HB3	2.26	0.55
11:I1:962:ILE:CG2	20:R1:166:LEU:CD1	2.80	0.55
11:I1:984:GLU:HG3	15:M1:617:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:991:THR:HG21	15:M1:611:LYS:H	1.64	0.55
11:I1:1605:LEU:CB	11:I2:1669:ARG:NE	2.56	0.55
11:I2:800:PHE:HB3	17:O3:245:GLU:OE2	2.07	0.55
11:I2:884:LEU:HD13	15:M3:599:ILE:HD13	1.88	0.55
11:I5:1112:SER:CB	12:J5:241:THR:HB	2.37	0.55
15:M2:598:GLU:OE1	17:O2:254:ARG:NH1	2.40	0.55
21:S1:654:LYS:N	21:S2:1156:ILE:O	2.39	0.55
21:S2:176:MET:CE	21:S2:232:LEU:CD1	2.85	0.55
21:S2:1032:ILE:HD12	21:S2:1051:ALA:CA	2.36	0.55
22:T2:680:PHE:O	22:T2:682:PRO:HD3	2.06	0.55
26:X3:70:LYS:HD2	27:Y3:15:VAL:O	2.07	0.55
28:Z4:288:VAL:HG12	28:Z4:300:MET:HB3	1.88	0.55
2:A2:223:THR:O	6:D1:709:ARG:NH2	2.40	0.55
1:A3:1098:ARG:NH2	11:I2:1421:ARG:HH21	2.04	0.55
1:A3:1186:TRP:CH2	3:A6:583:LEU:HD23	2.42	0.55
1:A3:1259:CYS:HA	3:A6:624:ASP:OD1	2.07	0.55
2:A4:577:ASP:CG	3:A6:453:SER:OG	2.39	0.55
2:A4:623:SER:CB	3:A6:453:SER:CB	2.69	0.55
2:A4:713:ILE:HD12	3:A6:462:LEU:HD13	1.88	0.55
2:A4:751:GLN:O	3:A6:538:ALA:HB1	2.07	0.55
2:A4:753:GLU:CA	3:A6:542:LEU:HB2	2.23	0.55
2:A4:781:ARG:HD2	6:D3:633:LYS:CE	2.34	0.55
2:A4:801:THR:OG1	3:A6:381:LEU:HB2	2.04	0.55
2:A4:819:VAL:CG2	3:A6:567:VAL:HG22	2.36	0.55
2:A4:901:ALA:HB2	3:A6:176:LEU:CD1	2.37	0.55
2:A4:947:LYS:CD	3:A6:203:ILE:HG12	2.37	0.55
2:A4:1155:ASN:CG	5:C4:735:ILE:HA	2.25	0.55
3:A6:1398:LYS:HB3	28:Z4:920:SER:H	1.71	0.55
6:D2:585:GLY:O	6:D2:631:LEU:HD11	2.06	0.55
8:F1:257:ARG:NH2	8:F1:285:GLU:OE1	2.39	0.55
11:I1:717:GLU:N	11:I1:717:GLU:OE1	2.39	0.55
11:I1:877:ILE:C	17:O1:252:VAL:H	1.86	0.55
11:I1:932:VAL:HG12	15:M1:605:THR:HG22	1.87	0.55
11:I1:965:ALA:HB3	20:R1:164:PRO:C	2.25	0.55
11:I1:976:ARG:HH12	15:M1:622:VAL:HA	1.70	0.55
11:I2:1031:ALA:CB	20:R3:173:LEU:HA	2.37	0.55
11:I2:1041:GLN:HE21	15:M3:614:ASP:C	2.09	0.55
11:I2:1050:SER:HA	17:O3:290:TYR:HB2	1.88	0.55
11:I2:1112:SER:CB	12:J2:241:THR:HB	2.37	0.55
11:I4:1284:GLU:N	11:I4:1284:GLU:OE1	2.38	0.55
21:S1:176:MET:CE	21:S1:232:LEU:CD1	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:1028:ALA:HB3	21:S3:1029:PRO:HD3	1.89	0.55
22:T3:696:MET:HE3	22:T3:712:PHE:HB2	1.87	0.55
26:X1:461:MET:O	26:X1:465:MET:HG3	2.07	0.55
28:Z3:537:THR:CG2	28:Z3:743:ASN:HA	2.31	0.55
1:A1:869:ALA:N	6:D3:280:GLN:CB	2.62	0.55
1:A1:1399:ARG:CZ	2:A2:887:GLU:N	2.69	0.55
2:A2:781:ARG:HD3	6:D1:673:ARG:HD2	1.89	0.55
2:A2:825:ARG:HD3	6:D1:633:LYS:HZ2	1.67	0.55
2:A2:867:GLU:CB	6:D1:609:ILE:CD1	2.82	0.55
2:A2:968:SER:C	6:D1:202:GLN:HA	2.27	0.55
2:A2:1305:ALA:HB3	2:A2:1306:PRO:CD	2.36	0.55
1:A3:1182:ILE:CG2	3:A6:639:ASN:CB	2.47	0.55
1:A3:1255:LEU:N	3:A6:634:ASP:CG	2.59	0.55
2:A4:646:ILE:HD12	3:A6:500:LYS:HG2	1.86	0.55
2:A4:678:LEU:CD2	3:A6:431:PHE:HD2	2.14	0.55
2:A4:735:ALA:O	3:A6:92:ASP:CB	2.47	0.55
3:A6:1135:ARG:HE	5:C6:743:LEU:CD1	2.18	0.55
6:D3:585:GLY:O	6:D3:631:LEU:HD11	2.06	0.55
6:D4:585:GLY:O	6:D4:631:LEU:HD11	2.07	0.55
8:F1:69:LYS:N	8:F1:106:ASN:OD1	2.39	0.55
8:F2:69:LYS:N	8:F2:106:ASN:OD1	2.39	0.55
8:F2:472:ARG:CZ	11:I2:171:TRP:HB2	2.37	0.55
8:F2:1556:GLN:N	8:F2:1630:GLU:OE1	2.40	0.55
9:G1:257:THR:CA	17:O2:253:LEU:H	2.05	0.55
11:I1:937:TYR:O	17:O1:258:GLU:CA	2.54	0.55
11:I1:1112:SER:CB	12:J1:241:THR:HB	2.37	0.55
11:I2:1034:ASP:O	16:N3:441:PHE:CE2	2.58	0.55
11:I2:1045:PHE:HA	17:O3:280:GLU:CA	2.37	0.55
17:O3:147:ALA:CB	18:P3:328:PRO:HG3	2.34	0.55
21:S4:176:MET:CE	21:S4:232:LEU:CD1	2.85	0.55
24:V3:180:LEU:HD11	24:V3:478:PHE:HE1	1.71	0.55
25:W1:49:LEU:HB3	25:W1:82:TRP:CZ3	2.41	0.55
26:X4:461:MET:O	26:X4:465:MET:HG3	2.07	0.55
28:Z3:245:ILE:HG21	28:Z3:311:LEU:HD23	1.88	0.55
1:A1:1018:ASP:OD2	6:D1:819:ASN:CB	2.54	0.55
2:A2:970:PHE:CA	6:D1:202:GLN:HG3	2.36	0.55
2:A2:978:ASP:C	6:D1:476:VAL:CB	2.48	0.55
1:A3:1189:LEU:HD12	3:A6:641:ALA:HB2	1.88	0.55
1:A3:1306:PRO:HD3	3:A6:719:ARG:HG3	1.87	0.55
1:A3:1325:MET:CE	3:A6:126:ARG:HD3	2.16	0.55
2:A4:89:LEU:H	3:A6:406:LEU:CA	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:676:LEU:CD2	3:A6:499:ILE:HD13	2.37	0.55
2:A4:726:ALA:N	3:A6:575:LEU:HB2	2.22	0.55
2:A4:774:VAL:C	3:A6:525:THR:HB	2.27	0.55
3:A6:1385:GLU:OE1	28:Z4:907:LEU:CA	2.54	0.55
8:F2:472:ARG:NH2	11:I2:171:TRP:HB2	2.21	0.55
11:I1:880:MET:HB2	17:O1:250:LEU:H	1.70	0.55
11:I1:984:GLU:HG3	15:M1:617:THR:HG22	1.88	0.55
11:I1:1114:VAL:HG12	16:N1:432:TYR:CD2	1.92	0.55
11:I1:1642:LEU:CD1	11:I2:1669:ARG:NH1	2.39	0.55
11:I2:1040:HIS:CA	16:N3:434:LEU:HD13	2.37	0.55
11:I4:8:GLU:N	11:I4:8:GLU:OE1	2.39	0.55
17:O4:110:LEU:CB	18:P4:321:ILE:CB	2.52	0.55
23:U2:155:SER:HA	24:V2:351:ILE:HA	1.88	0.55
26:X2:280:VAL:HG21	26:X2:321:ALA:HB3	1.89	0.55
26:X2:461:MET:O	26:X2:465:MET:HG3	2.07	0.55
2:A2:866:SER:HA	6:D1:598:ILE:HG12	1.89	0.55
1:A3:1192:GLN:N	3:A6:645:PHE:CE2	2.75	0.55
1:A3:1399:ARG:HB3	2:A4:884:ARG:NE	2.21	0.55
2:A4:689:LYS:HD2	3:A6:336:ILE:HD13	0.72	0.55
2:A4:763:LEU:CD1	3:A6:470:ARG:CD	2.84	0.55
2:A4:859:GLN:NE2	3:A6:167:TRP:CD2	2.74	0.55
2:A4:886:PHE:HZ	3:A6:176:LEU:CD1	2.19	0.55
2:A4:892:SER:O	3:A6:155:TYR:HE2	1.86	0.55
2:A4:973:GLU:N	6:D3:205:LEU:CB	2.70	0.55
3:A5:234:LEU:CA	5:C2:738:ASP:CA	2.83	0.55
3:A5:1135:ARG:HE	5:C5:743:LEU:CD1	2.18	0.55
3:A6:445:THR:HG21	6:D3:716:ARG:C	2.27	0.55
11:I2:794:MET:HG2	17:O3:248:SER:HB2	1.89	0.55
11:I2:881:ILE:HG23	17:O3:249:ARG:HH21	1.55	0.55
11:I2:922:ASP:H	15:M3:592:LEU:CB	2.19	0.55
11:I2:1039:ALA:HB2	20:R3:170:LEU:N	2.20	0.55
11:I2:1043:LEU:HA	16:N3:430:ARG:HG3	1.89	0.55
11:I2:1114:VAL:HG21	16:N3:435:ALA:N	1.96	0.55
22:T1:680:PHE:O	22:T1:682:PRO:HD3	2.06	0.55
23:U1:410:SER:HA	23:U1:436:LEU:HD11	1.89	0.55
23:U3:278:GLN:CD	25:W4:188:ASN:O	2.42	0.55
25:W1:236:GLN:HB2	25:W1:243:TRP:CE3	2.42	0.55
26:X1:64:LYS:HB3	27:Y1:324:ASP:HB3	1.89	0.55
26:X3:461:MET:O	26:X3:465:MET:HG3	2.07	0.55
28:Z4:232:ARG:NE	28:Z4:249:THR:OG1	2.39	0.55
28:Z4:245:ILE:HG21	28:Z4:311:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1098:ARG:CZ	11:I1:1478:VAL:HA	2.37	0.55
1:A1:1333:ARG:CA	6:D1:637:LYS:CD	2.85	0.55
2:A2:982:THR:CB	6:D1:494:LEU:CA	2.73	0.55
2:A2:1141:GLU:CD	3:A5:563:THR:HG1	2.08	0.55
1:A3:1220:PRO:CG	2:A4:646:ILE:HG23	2.36	0.55
2:A4:615:LEU:HD12	3:A6:511:PHE:CD2	2.39	0.55
2:A4:825:ARG:HH22	3:A6:564:ASN:CB	2.14	0.55
2:A4:856:PHE:CE2	3:A6:565:THR:O	2.60	0.55
2:A4:878:LEU:CD2	6:D3:607:PRO:CA	2.79	0.55
2:A4:976:LEU:HD12	6:D3:501:LEU:HD13	1.89	0.55
2:A4:1305:ALA:HB3	2:A4:1306:PRO:CD	2.36	0.55
3:A6:1413:SER:C	28:Z4:994:ILE:CB	2.76	0.55
9:G2:257:THR:CG2	17:O4:257:ALA:H	2.19	0.55
11:I1:8:GLU:N	11:I1:8:GLU:OE1	2.39	0.55
11:I1:880:MET:CA	17:O1:250:LEU:H	2.19	0.55
11:I1:924:ILE:O	15:M1:597:LYS:CA	2.52	0.55
11:I2:8:GLU:N	11:I2:8:GLU:OE1	2.39	0.55
11:I2:939:ASN:CA	17:O3:264:ILE:O	2.31	0.55
11:I2:980:ILE:CG1	20:R3:147:LEU:HA	2.37	0.55
11:I3:1277:LEU:CG	26:X1:522:MET:CB	2.82	0.55
11:I4:624:GLU:O	11:I4:627:ASN:ND2	2.40	0.55
11:I4:819:MET:HE3	27:Y3:178:PHE:HE1	1.53	0.55
11:I5:1278:ALA:CB	26:X2:517:ASP:OD1	2.55	0.55
21:S1:122:LYS:HG2	21:S1:141:GLU:OE2	2.07	0.55
21:S4:374:THR:OG1	21:S4:387:THR:OG1	2.24	0.55
25:W2:95:HIS:CE1	25:W2:97:VAL:HG22	2.42	0.55
26:X4:70:LYS:HD2	27:Y4:15:VAL:O	2.07	0.55
1:A1:864:ARG:NH1	6:D3:299:ILE:HG21	2.22	0.54
1:A1:1201:ARG:HH22	2:A2:761:GLN:HE22	1.54	0.54
2:A2:872:ALA:CA	6:D1:568:ARG:N	2.61	0.54
2:A2:986:THR:N	6:D1:497:PHE:CE1	2.69	0.54
2:A2:1121:LEU:HA	3:A5:133:LYS:HG3	1.89	0.54
1:A3:1230:TYR:CD1	3:A6:609:GLU:C	2.67	0.54
1:A3:1235:ILE:HD11	3:A6:617:VAL:CG1	2.38	0.54
2:A4:80:LYS:CG	3:A6:323:THR:HB	2.37	0.54
2:A4:713:ILE:N	3:A6:436:PRO:HD2	2.21	0.54
2:A4:763:LEU:HD22	3:A6:384:ILE:HG12	1.88	0.54
2:A4:771:ILE:CG2	3:A6:490:PHE:O	2.55	0.54
2:A4:788:ARG:CB	3:A6:145:THR:CB	2.84	0.54
2:A4:799:ASP:CG	3:A6:250:PHE:CE2	2.71	0.54
2:A4:827:ILE:HG22	3:A6:133:LYS:C	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1005:PHE:CZ	11:I5:67:LYS:CE	2.89	0.54
3:A6:1368:GLN:C	28:Z4:874:ASN:CB	2.75	0.54
8:F1:540:GLU:N	8:F1:540:GLU:OE1	2.37	0.54
8:F1:1093:LEU:CB	17:O2:244:GLU:OE2	2.52	0.54
11:I1:1071:LEU:H	16:N1:429:GLU:CB	2.18	0.54
11:I1:1108:PRO:CG	16:N1:444:SER:H	2.19	0.54
11:I1:1114:VAL:H	16:N1:435:ALA:CB	1.94	0.54
11:I1:1611:PHE:CG	11:I2:1669:ARG:CA	2.89	0.54
11:I2:77:GLU:N	11:I2:77:GLU:OE1	2.38	0.54
11:I2:840:LEU:CD1	17:O3:247:TRP:HD1	2.19	0.54
11:I2:931:VAL:O	15:M3:601:ASP:O	2.25	0.54
11:I2:938:CYS:O	17:O3:261:LYS:HA	2.06	0.54
11:I2:945:LEU:HD13	17:O3:255:GLY:HA2	1.88	0.54
11:I2:1109:LEU:HB2	16:N3:441:PHE:HB2	1.90	0.54
11:I3:1112:SER:CB	12:J3:241:THR:HB	2.37	0.54
21:S2:1028:ALA:HB3	21:S2:1029:PRO:HD3	1.89	0.54
21:S3:122:LYS:HG2	21:S3:141:GLU:OE2	2.07	0.54
23:U1:34:ASP:HB3	23:U1:35:PRO:HD3	1.88	0.54
25:W4:95:HIS:CE1	25:W4:97:VAL:HG22	2.42	0.54
27:Y2:128:LEU:HD23	27:Y2:169:PHE:HB3	1.89	0.54
28:Z3:102:MET:HB3	28:Z3:107:THR:HG21	1.89	0.54
1:A1:1222:ALA:HA	2:A2:645:PHE:CE1	2.42	0.54
1:A1:1225:PRO:HB3	2:A2:722:ASN:O	2.07	0.54
2:A2:908:LEU:HD23	6:D1:601:PHE:CA	2.36	0.54
2:A2:980:ARG:HG3	6:D1:526:LEU:HB2	1.89	0.54
2:A2:980:ARG:CA	6:D1:473:GLU:OE2	2.51	0.54
2:A2:981:PRO:CG	6:D1:504:LYS:N	2.70	0.54
2:A2:1154:PHE:HE1	4:B5:342:ARG:NE	2.03	0.54
1:A3:1091:VAL:HG11	6:D3:801:TYR:OH	2.07	0.54
1:A3:1164:TYR:HD1	3:A6:643:ALA:C	2.09	0.54
1:A3:1188:ASN:HD22	3:A6:646:ILE:CD1	2.19	0.54
1:A3:1240:HIS:CD2	6:D3:736:ASN:HD22	2.25	0.54
2:A4:576:VAL:HA	3:A6:509:LYS:NZ	2.22	0.54
2:A4:717:VAL:HG11	3:A6:476:PHE:CB	2.37	0.54
2:A4:780:GLU:CD	6:D3:679:ILE:HG21	2.25	0.54
2:A4:798:LYS:HD2	3:A6:314:TRP:CD1	2.40	0.54
2:A4:886:PHE:HE1	3:A6:176:LEU:CA	2.19	0.54
2:A4:973:GLU:O	6:D3:499:LEU:CD1	2.55	0.54
3:A6:1359:LEU:C	28:Z4:918:PHE:CB	2.76	0.54
3:A6:1399:ARG:HH21	28:Z4:969:MET:N	2.05	0.54
6:D3:612:VAL:HG12	6:D3:628:LEU:HD13	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1556:GLN:N	8:F1:1630:GLU:OE1	2.40	0.54
8:F2:257:ARG:NH2	8:F2:285:GLU:OE1	2.39	0.54
11:I1:1101:LEU:CD2	16:N1:432:TYR:HE1	2.08	0.54
11:I2:887:GLN:HE22	16:N3:396:ILE:CB	2.21	0.54
11:I2:915:ALA:CB	15:M3:582:THR:O	2.55	0.54
11:I2:978:LYS:HE2	20:R3:153:GLN:CA	2.37	0.54
11:I2:1039:ALA:HB1	20:R3:170:LEU:CG	0.21	0.54
15:M1:598:GLU:OE1	17:O1:254:ARG:NH1	2.40	0.54
19:Q1:208:GLY:HA3	19:Q1:210:TRP:CZ3	2.43	0.54
21:S3:374:THR:OG1	21:S3:387:THR:OG1	2.24	0.54
21:S4:122:LYS:HG2	21:S4:141:GLU:OE2	2.07	0.54
22:T3:680:PHE:O	22:T3:682:PRO:HD3	2.06	0.54
26:X3:163:LYS:HB2	26:X3:172:PHE:CE1	2.41	0.54
26:X3:328:LEU:O	26:X3:332:ILE:HG13	2.08	0.54
28:Z3:232:ARG:NE	28:Z3:249:THR:OG1	2.39	0.54
28:Z4:537:THR:CG2	28:Z4:743:ASN:HA	2.31	0.54
1:A1:1399:ARG:CA	2:A2:888:GLN:OE1	2.52	0.54
2:A2:1131:ILE:C	3:A5:141:GLY:CA	2.76	0.54
1:A3:1195:PHE:CD2	3:A6:678:LEU:CB	2.90	0.54
2:A4:79:ALA:O	3:A6:321:ASP:OD2	2.25	0.54
2:A4:79:ALA:O	3:A6:384:ILE:O	2.25	0.54
2:A4:93:ASP:O	3:A6:361:ASP:HB3	1.98	0.54
2:A4:735:ALA:H	3:A6:92:ASP:CG	2.11	0.54
2:A4:776:MET:HA	3:A6:519:LEU:HD13	1.86	0.54
2:A4:807:SER:HB3	3:A6:383:PRO:O	2.07	0.54
2:A4:880:ALA:HA	6:D3:558:LYS:HE2	1.85	0.54
2:A4:898:LEU:N	3:A6:176:LEU:O	2.41	0.54
2:A4:904:GLN:CG	6:D3:603:SER:CB	2.59	0.54
2:A4:951:GLU:HB2	4:B6:347:LEU:CG	2.33	0.54
2:A4:978:ASP:OD1	6:D3:463:PHE:CD1	2.60	0.54
3:A5:1368:GLN:HB2	28:Z2:841:ALA:O	2.07	0.54
6:D7:612:VAL:HG12	6:D7:628:LEU:HD13	1.88	0.54
8:F1:982:PRO:CG	11:I1:1388:GLU:CG	2.86	0.54
8:F1:1265:GLN:CD	17:O2:257:ALA:O	2.44	0.54
8:F1:1491:ARG:NE	9:G1:282:ASN:OD1	2.41	0.54
11:I1:882:LYS:HA	17:O1:249:ARG:HD2	1.88	0.54
11:I1:915:ALA:CB	15:M1:582:THR:C	2.73	0.54
11:I1:945:LEU:HD21	17:O1:258:GLU:HB2	0.59	0.54
11:I1:1662:ARG:HA	11:I2:1667:GLN:HE22	1.64	0.54
11:I2:950:LEU:HD23	15:M3:606:LEU:CG	2.37	0.54
17:O3:147:ALA:C	18:P3:328:PRO:HB3	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:64:LYS:HB3	27:Y2:324:ASP:HB3	1.89	0.54
26:X2:328:LEU:O	26:X2:332:ILE:HG13	2.08	0.54
28:Z1:102:MET:HB3	28:Z1:107:THR:HG21	1.90	0.54
2:A2:825:ARG:NH2	6:D1:679:ILE:HD11	2.22	0.54
1:A3:777:LEU:HD13	1:A3:822:ILE:HD11	1.90	0.54
1:A3:1261:TYR:CD2	3:A6:616:ALA:CB	2.90	0.54
2:A4:86:ASN:O	3:A6:406:LEU:CB	2.21	0.54
2:A4:552:PHE:HE1	3:A6:109:ASP:OD2	1.80	0.54
2:A4:758:HIS:CA	3:A6:544:PHE:CG	2.90	0.54
2:A4:796:GLN:CB	3:A6:249:SER:CB	2.85	0.54
2:A4:805:LEU:HB3	3:A6:468:GLY:O	2.07	0.54
2:A4:878:LEU:CD2	6:D3:608:ILE:N	2.70	0.54
2:A4:977:VAL:HG13	6:D3:476:VAL:CG2	2.38	0.54
3:A6:1364:GLN:HB3	28:Z4:876:LEU:O	2.06	0.54
3:A6:1389:SER:CB	28:Z4:907:LEU:CA	2.78	0.54
8:F1:1262:HIS:HB3	17:O2:262:ASP:OD1	2.08	0.54
8:F1:1266:MET:N	17:O2:265:ASN:HD22	2.05	0.54
8:F2:1659:MET:O	8:F2:1712:ASN:ND2	2.36	0.54
11:I1:880:MET:CE	17:O1:247:TRP:HZ3	1.92	0.54
11:I1:884:LEU:CD2	17:O1:246:LEU:HD13	2.22	0.54
11:I1:1002:ALA:O	16:N1:413:VAL:O	2.25	0.54
11:I1:1038:ILE:CG1	20:R1:167:GLN:OE1	2.55	0.54
11:I1:1055:GLU:CD	17:O1:280:GLU:HB2	2.24	0.54
11:I1:1056:PRO:CB	17:O1:278:GLU:HG3	2.33	0.54
11:I2:934:LEU:HB2	15:M3:602:MET:O	1.87	0.54
11:I2:983:LEU:HD13	15:M3:621:ARG:CZ	2.38	0.54
11:I2:1105:TRP:CD1	16:N3:436:ALA:HB2	2.43	0.54
11:I2:1284:GLU:OE1	11:I2:1284:GLU:N	2.38	0.54
11:I5:747:GLU:OE1	11:I5:747:GLU:N	2.38	0.54
21:S2:122:LYS:HG2	21:S2:141:GLU:OE2	2.07	0.54
23:U2:410:SER:HA	23:U2:436:LEU:HD11	1.89	0.54
23:U4:350:VAL:HG22	23:U4:355:LEU:HD22	1.89	0.54
23:U4:410:SER:HA	23:U4:436:LEU:HD11	1.88	0.54
26:X4:328:LEU:O	26:X4:332:ILE:HG13	2.08	0.54
28:Z4:102:MET:HB3	28:Z4:107:THR:HG21	1.89	0.54
1:A1:777:LEU:HD13	1:A1:822:ILE:HD11	1.90	0.54
2:A2:225:THR:O	6:D1:708:ASP:CB	2.55	0.54
2:A2:982:THR:HG21	6:D1:495:VAL:N	2.04	0.54
2:A2:1114:ILE:HG23	3:A5:173:ASN:ND2	2.22	0.54
1:A3:1186:TRP:N	3:A6:639:ASN:O	2.41	0.54
1:A3:1264:ASN:O	3:A6:717:VAL:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:HG12	3:A6:553:ASP:N	2.22	0.54
2:A4:79:ALA:HB1	3:A6:321:ASP:CA	2.35	0.54
2:A4:235:TYR:HE1	4:B4:347:LEU:CD1	2.21	0.54
2:A4:545:GLY:H	3:A6:364:HIS:C	2.10	0.54
2:A4:550:VAL:HG23	3:A6:455:LEU:HD23	1.90	0.54
2:A4:707:THR:HG23	3:A6:401:GLY:HA3	1.90	0.54
2:A4:715:GLU:HG2	3:A6:515:THR:C	2.25	0.54
2:A4:777:LEU:CD2	3:A6:526:ILE:CG1	2.85	0.54
2:A4:855:THR:CG2	3:A6:168:ASP:O	2.42	0.54
2:A4:889:VAL:HG22	3:A6:174:PRO:CA	2.19	0.54
2:A4:900:THR:CA	3:A6:137:HIS:NE2	2.71	0.54
2:A4:946:LYS:HB3	4:B6:350:GLU:C	2.21	0.54
3:A5:233:THR:CA	5:C2:737:LYS:N	2.64	0.54
3:A5:996:ASN:CG	11:I5:54:LYS:O	2.45	0.54
3:A5:1403:MSE:C	28:Z2:920:SER:H	1.89	0.54
3:A6:518:GLU:C	6:D3:686:ASP:HB3	2.27	0.54
3:A6:1416:ARG:C	28:Z4:1002:MET:N	2.61	0.54
6:D4:612:VAL:HG12	6:D4:628:LEU:HD13	1.88	0.54
6:D5:585:GLY:O	6:D5:631:LEU:HD11	2.07	0.54
6:D5:612:VAL:HG12	6:D5:628:LEU:HD13	1.88	0.54
8:F1:1205:TRP:CD1	17:O2:254:ARG:CG	2.90	0.54
11:I1:624:GLU:O	11:I1:627:ASN:ND2	2.40	0.54
11:I1:841:PHE:HB3	15:M1:588:MET:CA	2.36	0.54
11:I1:956:ILE:HG12	15:M1:599:ILE:CD1	2.36	0.54
11:I1:1546:TRP:CB	12:J2:300:ILE:CD1	2.68	0.54
11:I2:880:MET:HG3	17:O3:251:ILE:HG13	1.88	0.54
11:I2:953:LEU:HD23	15:M3:603:SER:OG	1.77	0.54
11:I2:1032:THR:O	16:N3:441:PHE:HZ	1.90	0.54
11:I2:1039:ALA:HB2	20:R3:169:GLY:C	2.28	0.54
11:I2:1048:GLU:N	17:O3:284:LYS:HA	2.23	0.54
11:I2:1051:LYS:CE	17:O3:288:GLU:HB2	2.36	0.54
11:I3:816:ASP:CA	26:X1:498:SER:HB3	2.17	0.54
11:I5:1425:TYR:OH	11:I5:1482:ASP:OD2	2.23	0.54
21:S1:658:SER:C	21:S2:1105:LEU:HD11	2.20	0.54
23:U3:410:SER:HA	23:U3:436:LEU:HD11	1.89	0.54
24:V1:483:GLU:OE2	24:V1:514:ARG:NH2	2.35	0.54
25:W1:9:ASN:OD1	25:W1:12:ILE:HD11	2.08	0.54
26:X1:522:MET:HE1	26:X1:538:ILE:HD12	1.90	0.54
26:X4:64:LYS:HB3	27:Y4:324:ASP:HB3	1.89	0.54
2:A2:970:PHE:CE1	6:D1:196:ILE:HD12	2.43	0.54
2:A2:1142:PHE:CD2	3:A5:128:HIS:O	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1098:ARG:NE	11:I2:1414:CYS:HB2	2.22	0.54
1:A3:1186:TRP:CH2	3:A6:583:LEU:HB2	2.37	0.54
1:A3:1277:TRP:HH2	3:A6:622:GLY:N	2.01	0.54
1:A3:1281:LEU:HB3	3:A6:625:LEU:CG	2.36	0.54
1:A3:1325:MET:CG	3:A6:126:ARG:HD3	2.35	0.54
2:A4:824:ASN:O	3:A6:138:LEU:CB	2.55	0.54
2:A4:858:ALA:C	6:D3:606:LYS:HE2	2.27	0.54
2:A4:925:LYS:CD	3:A6:233:THR:CA	2.15	0.54
2:A4:975:GLU:O	6:D3:496:LEU:HB3	2.07	0.54
2:A4:1026:PRO:O	2:A4:1029:ILE:N	2.41	0.54
3:A5:999:SER:HB3	11:I5:64:LYS:HE3	1.90	0.54
3:A5:1004:HIS:HE2	11:I5:58:ALA:C	2.09	0.54
3:A5:1055:ARG:HH12	11:I5:3:ASP:HA	1.73	0.54
3:A5:1395:LYS:N	28:Z2:874:ASN:N	2.54	0.54
9:G1:258:LYS:C	17:O2:252:VAL:HG12	2.28	0.54
9:G1:270:ARG:CD	16:N2:414:ALA:HA	2.32	0.54
11:I1:916:ALA:HB3	15:M1:586:ASP:HA	0.62	0.54
11:I1:945:LEU:CB	17:O1:259:ASP:H	2.19	0.54
11:I1:992:ILE:N	15:M1:608:LYS:HG2	1.88	0.54
11:I1:1033:PRO:C	16:N1:441:PHE:HE1	2.03	0.54
11:I1:1061:ASP:OD2	17:O1:278:GLU:CB	2.55	0.54
11:I2:1048:GLU:C	17:O3:287:LEU:HD23	2.25	0.54
11:I3:717:GLU:OE1	11:I3:717:GLU:N	2.39	0.54
11:I4:1112:SER:CB	12:J4:241:THR:HB	2.37	0.54
11:I5:8:GLU:N	11:I5:8:GLU:OE1	2.39	0.54
11:I5:717:GLU:OE1	11:I5:717:GLU:N	2.39	0.54
21:S3:176:MET:CE	21:S3:232:LEU:CD1	2.85	0.54
23:U1:237:ILE:HD11	23:U1:240:HIS:HA	1.87	0.54
23:U2:34:ASP:HB3	23:U2:35:PRO:HD3	1.88	0.54
25:W4:236:GLN:HB2	25:W4:243:TRP:CE3	2.42	0.54
26:X2:70:LYS:HD2	27:Y2:15:VAL:O	2.07	0.54
26:X4:163:LYS:HB2	26:X4:172:PHE:CE1	2.41	0.54
27:Y1:128:LEU:HD23	27:Y1:169:PHE:HB3	1.89	0.54
28:Z1:245:ILE:HG21	28:Z1:311:LEU:HD23	1.88	0.54
1:A1:1400:SER:OG	2:A2:885:LEU:HD22	2.07	0.54
2:A2:780:GLU:HB2	6:D1:677:GLN:HB3	1.82	0.54
2:A2:981:PRO:CD	6:D1:504:LYS:N	2.69	0.54
1:A3:1091:VAL:HG21	6:D3:808:ASN:H	0.56	0.54
1:A3:1237:LEU:O	3:A6:597:GLU:HG2	2.07	0.54
2:A4:606:GLY:O	3:A6:506:SER:HB2	2.07	0.54
2:A4:692:VAL:CG2	3:A6:379:VAL:O	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:706:PRO:CD	3:A6:463:ASP:O	2.52	0.54
2:A4:717:VAL:CA	3:A6:512:GLU:CD	2.67	0.54
2:A4:757:LEU:HG	3:A6:543:GLY:H	1.64	0.54
2:A4:825:ARG:HA	3:A6:138:LEU:HB2	1.90	0.54
2:A4:876:ARG:CD	6:D3:565:MET:CG	2.51	0.54
2:A4:880:ALA:CB	6:D3:558:LYS:HD3	2.38	0.54
2:A4:1019:ARG:HH22	6:D3:238:ALA:N	2.00	0.54
3:A5:1310:ARG:HE	28:Z2:827:GLN:CA	2.20	0.54
3:A5:1368:GLN:CB	28:Z2:841:ALA:C	2.74	0.54
3:A6:444:ARG:O	6:D3:719:LEU:C	2.45	0.54
6:D2:532:LEU:O	6:D2:536:THR:HG23	2.08	0.54
9:G1:267:GLY:N	16:N2:414:ALA:C	2.60	0.54
11:I1:923:GLY:N	15:M1:592:LEU:CB	2.27	0.54
11:I2:882:LYS:CA	17:O3:245:GLU:O	2.54	0.54
11:I2:900:ARG:HG3	17:O3:232:LYS:HD3	1.70	0.54
11:I2:936:LYS:CE	15:M3:612:PRO:CG	2.83	0.54
11:I2:950:LEU:CA	16:N3:406:HIS:HD2	2.21	0.54
11:I2:955:LYS:HB2	16:N3:400:LEU:CD2	2.30	0.54
11:I2:1038:ILE:HD13	15:M3:621:ARG:N	2.22	0.54
11:I2:1058:GLY:CA	17:O3:277:GLU:C	2.64	0.54
11:I3:1267:LEU:HD13	26:X1:497:ARG:HH11	1.64	0.54
11:I3:1271:GLU:OE1	26:X1:504:ILE:CB	2.50	0.54
21:S3:1012:LEU:HD13	21:S3:1034:LEU:HD22	1.90	0.54
24:V3:525:ASP:HA	24:V3:528:LEU:HD12	1.90	0.54
25:W3:236:GLN:HB2	25:W3:243:TRP:CE3	2.42	0.54
26:X3:186:ARG:HA	26:X3:190:PHE:HB2	1.90	0.54
2:A2:908:LEU:HD21	6:D1:602:THR:H	1.72	0.54
1:A3:1169:LEU:CB	3:A6:590:SER:O	2.56	0.54
1:A3:1202:GLU:OE1	3:A6:87:GLN:O	2.25	0.54
1:A3:1236:GLN:OE1	3:A6:578:ILE:CB	2.55	0.54
1:A3:1285:LEU:CB	3:A6:581:LYS:HZ3	2.00	0.54
2:A4:703:SER:N	3:A6:465:SER:C	2.58	0.54
2:A4:774:VAL:HG23	3:A6:469:PHE:HE2	1.73	0.54
2:A4:781:ARG:NH1	3:A6:522:GLY:CA	2.71	0.54
2:A4:808:GLN:NE2	3:A6:328:TYR:HD2	2.04	0.54
2:A4:820:LYS:HZ1	3:A6:166:LEU:HA	1.72	0.54
2:A4:851:ASP:OD2	3:A6:229:SER:C	2.46	0.54
2:A4:942:ASN:OD1	4:B6:355:PRO:O	2.25	0.54
3:A5:159:SER:CA	5:C2:742:ASP:O	2.56	0.54
3:A5:160:ILE:CA	5:C2:744:PHE:HA	2.36	0.54
3:A5:1029:ILE:CG2	11:I5:70:GLU:H	1.83	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:443:ILE:CD1	6:D3:695:LEU:HD11	2.38	0.54
3:A6:1375:THR:CG2	28:Z4:826:TYR:HA	2.38	0.54
6:D1:532:LEU:O	6:D1:536:THR:HG23	2.08	0.54
9:G1:263:MET:HB3	17:O2:260:LEU:CD1	2.38	0.54
11:I1:874:LEU:HG	17:O1:252:VAL:O	2.08	0.54
11:I1:876:ALA:O	17:O1:248:SER:CA	2.55	0.54
11:I1:887:GLN:CB	16:N1:393:ILE:CD1	2.67	0.54
11:I1:895:ARG:NH2	17:O1:233:THR:CG2	2.70	0.54
11:I1:938:CYS:HA	15:M1:606:LEU:CD1	2.36	0.54
11:I1:990:GLU:CG	17:O1:275:LEU:HB3	2.37	0.54
11:I1:1607:GLN:NE2	11:I2:1736:LEU:CD1	2.42	0.54
11:I2:948:ALA:CB	17:O3:256:TYR:CA	2.86	0.54
11:I2:1039:ALA:C	20:R3:170:LEU:CD1	2.76	0.54
11:I2:1050:SER:O	17:O3:290:TYR:HB2	2.07	0.54
11:I2:1116:ASP:OD1	12:J2:241:THR:CG2	2.56	0.54
11:I5:624:GLU:O	11:I5:627:ASN:ND2	2.40	0.54
21:S1:1012:LEU:HD13	21:S1:1034:LEU:HD22	1.90	0.54
21:S1:1028:ALA:HB3	21:S1:1029:PRO:HD3	1.89	0.54
21:S4:1083:TRP:HA	21:S4:1083:TRP:HE3	1.73	0.54
23:U1:341:HIS:CE1	23:U1:343:ILE:HD12	2.43	0.54
23:U4:155:SER:HA	24:V4:351:ILE:HA	1.88	0.54
1:A1:1224:PRO:CA	2:A2:727:ASN:HB2	1.99	0.54
1:A1:1332:ARG:NH2	6:D1:685:VAL:CB	2.59	0.54
1:A3:1130:ARG:HH21	3:A6:651:GLN:N	1.51	0.54
1:A3:1166:LEU:CA	3:A6:595:GLU:N	2.67	0.54
1:A3:1333:ARG:CA	6:D3:637:LYS:HD3	2.38	0.54
1:A3:1389:SER:HB2	3:A6:230:LYS:HD3	1.90	0.54
2:A4:704:THR:O	3:A6:462:LEU:C	2.47	0.54
2:A4:889:VAL:HG22	3:A6:175:GLU:H	1.72	0.54
3:A5:1053:ARG:CZ	11:I5:99:ARG:HG3	2.38	0.54
3:A6:518:GLU:CG	6:D3:690:TYR:CE2	2.89	0.54
6:D5:532:LEU:O	6:D5:536:THR:HG23	2.08	0.54
8:F2:1491:ARG:NE	9:G2:282:ASN:OD1	2.41	0.54
9:G1:255:LEU:HD12	17:O2:257:ALA:CA	2.38	0.54
11:I1:980:ILE:CG1	15:M1:621:ARG:CB	2.68	0.54
11:I1:1045:PHE:CE1	16:N1:431:VAL:O	2.58	0.54
11:I1:1110:SER:HB3	16:N1:436:ALA:N	2.19	0.54
11:I2:841:PHE:CA	15:M3:591:ASP:CG	2.76	0.54
11:I2:890:TYR:CA	17:O3:238:ALA:C	2.69	0.54
11:I2:945:LEU:C	17:O3:260:LEU:H	2.11	0.54
11:I2:1038:ILE:HD13	15:M3:621:ARG:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:624:GLU:O	11:I3:627:ASN:ND2	2.40	0.54
11:I3:1275:SER:CB	26:X1:522:MET:HG2	2.28	0.54
11:I4:1425:TYR:OH	11:I4:1482:ASP:OD2	2.23	0.54
17:O3:154:ARG:HD3	18:P3:324:LEU:CD1	2.36	0.54
23:U1:210:MET:O	24:V1:325:TYR:OH	2.21	0.54
23:U3:279:TYR:HD1	25:W4:189:SER:CB	2.10	0.54
23:U4:341:HIS:CE1	23:U4:343:ILE:HD12	2.43	0.54
25:W2:9:ASN:OD1	25:W2:12:ILE:HD11	2.08	0.54
25:W2:212:TRP:HA	25:W2:222:LEU:HD23	1.90	0.54
25:W3:95:HIS:CE1	25:W3:97:VAL:HG22	2.42	0.54
26:X1:328:LEU:O	26:X1:332:ILE:HG13	2.08	0.54
26:X3:280:VAL:HG21	26:X3:321:ALA:HB3	1.89	0.54
2:A2:1126:VAL:HG13	3:A5:139:ASN:HD21	1.73	0.54
1:A3:1225:PRO:CD	3:A6:548:LEU:CD2	2.65	0.54
2:A4:608:VAL:HG13	3:A6:100:SER:HA	1.89	0.54
2:A4:703:SER:CA	3:A6:465:SER:O	2.56	0.54
2:A4:769:GLU:CB	3:A6:528:ILE:HG21	2.37	0.54
2:A4:946:LYS:CB	4:B6:348:PRO:HG2	2.30	0.54
3:A6:1398:LYS:HB3	28:Z4:920:SER:N	2.23	0.54
6:D4:532:LEU:O	6:D4:536:THR:HG23	2.08	0.54
6:D6:800:PRO:HG2	22:T3:765:LYS:CG	2.26	0.54
11:I1:946:THR:OG1	17:O1:260:LEU:CG	2.35	0.54
11:I1:955:LYS:CE	16:N1:396:ILE:O	2.42	0.54
11:I1:965:ALA:N	20:R1:165:SER:HB3	2.18	0.54
11:I1:1055:GLU:HA	17:O1:281:ALA:N	2.15	0.54
11:I1:1061:ASP:CB	17:O1:279:ILE:HD12	2.38	0.54
11:I1:1610:VAL:HG12	11:I2:1669:ARG:NH2	2.23	0.54
11:I2:846:ILE:CG2	17:O3:247:TRP:HH2	2.11	0.54
11:I2:847:THR:HG23	15:M3:594:LYS:CE	2.38	0.54
11:I2:895:ARG:NH1	16:N3:386:MET:CE	2.67	0.54
11:I2:977:ASN:ND2	15:M3:621:ARG:C	2.61	0.54
11:I2:1041:GLN:NE2	15:M3:614:ASP:CG	2.61	0.54
11:I3:1270:LYS:HE2	26:X1:530:ARG:CD	2.36	0.54
11:I3:1271:GLU:OE2	26:X1:529:TRP:CD2	2.54	0.54
11:I4:819:MET:HB3	26:X3:501:LYS:NZ	2.18	0.54
22:T1:853:CYS:O	22:T1:857:LEU:HG	2.08	0.54
23:U3:222:VAL:HG12	24:V3:256:VAL:HA	1.90	0.54
23:U4:222:VAL:HG12	24:V4:256:VAL:HA	1.90	0.54
24:V4:178:THR:HG21	24:V4:485:ALA:HB2	1.90	0.54
24:V4:520:ARG:NH2	24:V4:542:GLN:HE21	2.06	0.54
25:W1:95:HIS:CE1	25:W1:97:VAL:HG22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W1:212:TRP:HA	25:W1:222:LEU:HD23	1.90	0.54
26:X1:70:LYS:HD2	27:Y1:15:VAL:O	2.07	0.54
26:X4:280:VAL:HG21	26:X4:321:ALA:HB3	1.89	0.54
1:A1:874:VAL:CG1	6:D3:272:VAL:CA	2.85	0.53
2:A2:779:ASP:OD2	6:D1:679:ILE:O	2.25	0.53
2:A2:824:ASN:OD1	2:A2:859:GLN:NE2	2.40	0.53
2:A2:827:ILE:O	2:A2:863:GLN:HB2	0.72	0.53
2:A2:1150:LEU:HD11	5:C2:731:LYS:CG	2.38	0.53
1:A3:1114:ILE:O	3:A6:592:ASP:CB	2.56	0.53
1:A3:1182:ILE:HB	3:A6:639:ASN:ND2	2.23	0.53
1:A3:1201:ARG:HB2	2:A4:735:ALA:CB	2.37	0.53
1:A3:1234:GLN:HA	3:A6:601:PHE:CZ	2.43	0.53
2:A4:678:LEU:CD2	3:A6:431:PHE:HB2	2.38	0.53
2:A4:760:LEU:HD11	3:A6:98:LEU:HD22	1.90	0.53
2:A4:767:ILE:C	3:A6:477:PHE:HD2	2.10	0.53
2:A4:800:LEU:O	3:A6:316:ARG:NH2	2.40	0.53
2:A4:813:GLU:OE2	3:A6:191:LEU:C	2.47	0.53
2:A4:824:ASN:ND2	3:A6:167:TRP:HZ3	2.07	0.53
2:A4:853:VAL:CA	3:A6:128:HIS:HB3	2.37	0.53
2:A4:908:LEU:HA	6:D3:552:TYR:HE1	0.49	0.53
2:A4:975:GLU:CA	6:D3:501:LEU:HD12	2.30	0.53
3:A5:1046:LEU:CD1	11:I5:69:GLY:C	2.76	0.53
3:A5:1395:LYS:C	28:Z2:873:LEU:CB	2.74	0.53
6:D3:532:LEU:O	6:D3:536:THR:HG23	2.08	0.53
8:F1:982:PRO:CG	11:I1:1388:GLU:HG2	2.38	0.53
9:G1:257:THR:CA	17:O2:253:LEU:N	2.36	0.53
11:I1:465:GLU:N	11:I1:465:GLU:OE1	2.38	0.53
11:I1:899:LEU:CD2	17:O1:231:ASP:OD1	2.49	0.53
11:I1:938:CYS:CB	15:M1:606:LEU:O	2.56	0.53
11:I1:1111:ALA:HB2	16:N1:439:ARG:HH11	1.72	0.53
11:I1:1662:ARG:CB	11:I2:1603:ARG:HH12	2.20	0.53
11:I2:881:ILE:CG1	17:O3:250:LEU:HA	2.26	0.53
11:I2:886:LEU:HB2	17:O3:242:ARG:HA	1.90	0.53
11:I2:966:TRP:H	20:R3:154:ALA:HB2	1.71	0.53
11:I3:1284:GLU:N	11:I3:1284:GLU:OE1	2.38	0.53
17:O3:151:LEU:CG	18:P3:325:ILE:HG12	2.11	0.53
22:T1:781:THR:HG23	22:T1:783:THR:H	1.73	0.53
22:T3:853:CYS:O	22:T3:857:LEU:HG	2.09	0.53
24:V1:525:ASP:HA	24:V1:528:LEU:HD12	1.90	0.53
24:V2:345:SER:HB3	24:V2:371:PHE:CE2	2.43	0.53
24:V2:483:GLU:OE2	24:V2:514:ARG:NH2	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:548:TYR:HB2	25:W3:64:PRO:HB3	1.90	0.53
25:W3:9:ASN:OD1	25:W3:12:ILE:HD11	2.08	0.53
26:X1:186:ARG:HA	26:X1:190:PHE:HB2	1.90	0.53
26:X3:227:VAL:C	26:X3:229:SER:H	2.12	0.53
27:Y4:128:LEU:HD23	27:Y4:169:PHE:HB3	1.89	0.53
1:A1:1221:ILE:CG2	2:A2:645:PHE:N	2.18	0.53
2:A2:781:ARG:NE	6:D1:673:ARG:HH12	1.96	0.53
2:A2:989:MSE:HE1	6:D1:240:ASP:CG	2.28	0.53
2:A2:1126:VAL:HG13	3:A5:139:ASN:ND2	2.23	0.53
1:A3:1240:HIS:HD2	6:D3:736:ASN:HD22	1.56	0.53
2:A4:86:ASN:HB3	3:A6:393:HIS:HB2	1.86	0.53
2:A4:718:GLU:OE1	3:A6:491:VAL:CG1	2.53	0.53
2:A4:727:ASN:CG	3:A6:605:TYR:CB	2.76	0.53
2:A4:757:LEU:HG	3:A6:541:PRO:O	2.08	0.53
2:A4:852:ASP:CA	3:A6:154:GLY:O	2.54	0.53
2:A4:867:GLU:HB2	6:D3:605:THR:CB	2.35	0.53
2:A4:973:GLU:C	6:D3:499:LEU:HG	2.29	0.53
2:A4:1023:ILE:O	2:A4:1024:ASP:HB3	2.09	0.53
3:A5:1051:THR:HB	11:I5:40:ASP:OD2	2.07	0.53
3:A5:1376:LEU:O	28:Z2:815:PHE:CB	2.56	0.53
3:A5:1392:ARG:HG3	28:Z2:867:LYS:CA	2.37	0.53
5:C1:732:LYS:NZ	11:I1:1225:LYS:CG	2.69	0.53
8:F1:1165:VAL:HG12	8:F1:1166:GLY:N	2.23	0.53
8:F1:1263:MET:O	8:F1:1267:ARG:N	2.41	0.53
8:F2:1263:MET:O	8:F2:1267:ARG:N	2.41	0.53
11:I1:846:ILE:HG21	15:M1:591:ASP:C	2.28	0.53
11:I1:920:PHE:CD2	15:M1:592:LEU:HD12	2.43	0.53
11:I1:965:ALA:HB1	20:R1:164:PRO:HA	1.91	0.53
11:I1:1013:GLU:HA	16:N1:411:GLN:NE2	2.23	0.53
11:I1:1066:LEU:CB	16:N1:430:ARG:CB	2.55	0.53
11:I2:840:LEU:HD21	17:O3:247:TRP:HB2	1.90	0.53
11:I2:890:TYR:CB	17:O3:242:ARG:CG	2.85	0.53
11:I2:890:TYR:CG	17:O3:238:ALA:O	2.60	0.53
11:I2:895:ARG:HD3	17:O3:234:LEU:HD13	1.86	0.53
11:I2:914:ASN:O	15:M3:588:MET:CB	2.55	0.53
11:I2:957:SER:CA	20:R3:168:LEU:N	2.71	0.53
11:I2:989:GLY:CA	15:M3:614:ASP:HB3	2.30	0.53
11:I2:1028:CYS:O	20:R3:169:GLY:C	2.46	0.53
11:I3:1275:SER:HG	26:X1:522:MET:CG	1.91	0.53
17:O4:111:TYR:N	18:P1:278:ASN:HD22	2.06	0.53
21:S1:677:TYR:HA	21:S2:1128:ALA:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1083:TRP:HA	21:S2:1083:TRP:HE3	1.73	0.53
21:S4:947:GLU:CD	21:S4:947:GLU:H	2.12	0.53
23:U1:222:VAL:HG12	24:V1:256:VAL:HA	1.90	0.53
2:A2:1160:GLN:CB	3:A5:176:LEU:HB3	2.37	0.53
1:A3:1017:THR:C	6:D3:819:ASN:HB3	2.28	0.53
2:A4:735:ALA:CA	3:A6:92:ASP:HB3	2.39	0.53
2:A4:824:ASN:HB2	3:A6:158:ALA:HB2	1.90	0.53
2:A4:828:ALA:CB	3:A6:138:LEU:HB2	2.39	0.53
2:A4:885:LEU:HD22	3:A6:172:PRO:C	1.91	0.53
2:A4:888:GLN:HE21	3:A6:171:HIS:CE1	2.25	0.53
2:A4:897:ASN:O	3:A6:176:LEU:HB2	2.07	0.53
9:G1:252:LEU:HB3	17:O2:254:ARG:NH2	2.22	0.53
11:I1:841:PHE:CB	15:M1:588:MET:CB	2.72	0.53
11:I1:922:ASP:O	15:M1:593:ALA:CA	2.48	0.53
11:I1:987:GLY:N	15:M1:613:ASP:C	2.48	0.53
11:I1:989:GLY:CA	15:M1:614:ASP:CG	2.77	0.53
11:I3:460:GLN:OE1	11:I3:460:GLN:N	2.39	0.53
11:I3:1276:GLN:O	26:X1:522:MET:SD	2.66	0.53
11:I4:1116:ASP:OD1	12:J4:241:THR:CG2	2.56	0.53
22:T4:853:CYS:O	22:T4:857:LEU:HG	2.08	0.53
23:U3:350:VAL:HG22	23:U3:355:LEU:HD22	1.90	0.53
25:W4:9:ASN:OD1	25:W4:12:ILE:HD11	2.08	0.53
26:X4:227:VAL:C	26:X4:229:SER:H	2.12	0.53
1:A1:1396:GLY:CA	2:A2:888:GLN:HB2	2.03	0.53
2:A2:1131:ILE:O	3:A5:141:GLY:N	2.41	0.53
2:A2:1157:TYR:CG	3:A5:131:PRO:HB2	1.69	0.53
1:A3:1021:LEU:HD22	6:D3:816:VAL:CB	2.39	0.53
1:A3:1194:HIS:NE2	3:A6:679:TYR:C	2.27	0.53
1:A3:1255:LEU:HB2	3:A6:634:ASP:CG	2.27	0.53
2:A4:610:THR:CG2	3:A6:506:SER:HG	2.11	0.53
2:A4:713:ILE:H	3:A6:462:LEU:CD2	2.21	0.53
2:A4:713:ILE:HD12	3:A6:462:LEU:CD1	2.36	0.53
2:A4:720:LEU:CG	3:A6:495:ASP:N	2.71	0.53
2:A4:823:VAL:HB	3:A6:167:TRP:CZ2	2.42	0.53
2:A4:870:HIS:CD2	6:D3:566:PHE:CD1	2.96	0.53
2:A4:946:LYS:HG3	4:B6:350:GLU:OE2	2.09	0.53
3:A5:1391:ARG:NH2	28:Z2:868:GLN:O	2.42	0.53
11:I1:460:GLN:OE1	11:I1:460:GLN:N	2.39	0.53
11:I1:895:ARG:CZ	17:O1:233:THR:CG2	2.85	0.53
11:I1:920:PHE:N	15:M1:592:LEU:CD2	2.72	0.53
11:I1:924:ILE:O	15:M1:597:LYS:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1021:ILE:CA	16:N1:406:HIS:O	2.52	0.53
11:I1:1027:ALA:O	20:R1:172:ASP:O	2.27	0.53
11:I1:1041:GLN:HB3	15:M1:620:VAL:CB	2.25	0.53
11:I2:624:GLU:O	11:I2:627:ASN:ND2	2.40	0.53
11:I2:882:LYS:C	17:O3:245:GLU:C	2.53	0.53
11:I2:887:GLN:HE22	16:N3:396:ILE:CG1	2.20	0.53
11:I2:890:TYR:HB2	17:O3:242:ARG:CG	2.37	0.53
11:I2:945:LEU:CB	17:O3:260:LEU:H	2.21	0.53
11:I2:1052:LEU:HD21	16:N3:434:LEU:CD1	2.34	0.53
17:O3:151:LEU:HD11	18:P3:321:ILE:O	2.08	0.53
19:Q3:208:GLY:HA3	19:Q3:210:TRP:CZ3	2.43	0.53
21:S4:1028:ALA:HB3	21:S4:1029:PRO:HD3	1.89	0.53
24:V4:186:PHE:HD1	24:V4:487:LEU:HD11	1.74	0.53
26:X3:64:LYS:HB3	27:Y3:324:ASP:HB3	1.90	0.53
26:X4:186:ARG:HA	26:X4:190:PHE:HB2	1.90	0.53
26:X4:265:ILE:C	26:X4:267:ARG:H	2.12	0.53
1:A1:1224:PRO:HB3	2:A2:731:ILE:HD13	1.84	0.53
1:A1:1226:LEU:HB2	2:A2:725:GLU:HG3	1.90	0.53
2:A2:864:ARG:C	6:D1:607:PRO:HD2	2.24	0.53
2:A2:1026:PRO:O	2:A2:1029:ILE:N	2.41	0.53
2:A4:543:GLY:CA	3:A6:365:MET:HG3	2.39	0.53
2:A4:728:LYS:HG3	3:A6:682:ARG:NH1	2.23	0.53
2:A4:867:GLU:CB	6:D3:605:THR:CB	2.86	0.53
2:A4:934:TRP:CZ2	4:B6:350:GLU:HG2	2.34	0.53
3:A5:1026:PRO:HG3	11:I5:102:ILE:CD1	2.30	0.53
3:A6:777:LEU:HD13	3:A6:822:ILE:HD11	1.89	0.53
3:A6:1394:VAL:CG2	28:Z4:913:ILE:C	2.75	0.53
6:D6:440:PHE:O	6:D6:444:LEU:HD13	2.08	0.53
9:G1:263:MET:CE	16:N2:407:ALA:O	2.56	0.53
11:I1:833:PHE:CA	17:O1:241:SER:HB2	2.38	0.53
11:I1:884:LEU:HD11	16:N1:400:LEU:HD11	1.88	0.53
11:I1:918:SER:OG	16:N1:386:MET:C	2.47	0.53
11:I1:950:LEU:HB2	16:N1:403:VAL:O	2.08	0.53
11:I1:1037:THR:CG2	20:R1:169:GLY:C	2.73	0.53
11:I1:1110:SER:HB3	16:N1:434:LEU:C	2.28	0.53
11:I1:1116:ASP:OD1	12:J1:241:THR:CG2	2.56	0.53
11:I2:981:VAL:HG12	20:R3:147:LEU:HG	1.90	0.53
11:I2:990:GLU:HB3	17:O3:272:SER:CB	2.37	0.53
11:I2:1041:GLN:NE2	15:M3:617:THR:CG2	2.58	0.53
11:I5:77:GLU:OE1	11:I5:77:GLU:N	2.38	0.53
18:P1:276:SER:HA	18:P4:319:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:669:LEU:N	21:S2:1146:ALA:O	2.42	0.53
21:S2:969:THR:HA	22:T2:879:ASP:OD1	2.09	0.53
24:V2:520:ARG:NH2	24:V2:542:GLN:HE21	2.06	0.53
24:V3:178:THR:HG21	24:V3:485:ALA:HB2	1.90	0.53
24:V4:548:TYR:HB2	25:W4:64:PRO:HB3	1.90	0.53
25:W2:178:ALA:HB1	25:W2:206:TRP:CE2	2.44	0.53
25:W3:154:ALA:HB2	25:W3:212:TRP:CE3	2.44	0.53
25:W3:275:ASP:N	25:W3:275:ASP:OD1	2.42	0.53
2:A2:225:THR:H	6:D1:709:ARG:NE	2.03	0.53
2:A2:973:GLU:OE1	6:D1:205:LEU:CD1	2.40	0.53
2:A2:978:ASP:O	6:D1:476:VAL:N	2.36	0.53
2:A2:1142:PHE:HD1	3:A5:130:ILE:CG1	2.21	0.53
1:A3:1224:PRO:CD	2:A4:734:LEU:HD22	2.39	0.53
2:A4:769:GLU:CB	3:A6:471:PHE:HE2	2.11	0.53
2:A4:973:GLU:OE1	6:D3:192:TYR:CD2	2.61	0.53
2:A4:1094:ILE:CG1	6:D4:759:GLN:NE2	2.63	0.53
3:A5:785:ILE:HD11	3:A5:825:ARG:CG	2.38	0.53
3:A5:1024:ASP:CA	11:I5:98:ALA:HB3	2.38	0.53
8:F1:1202:TYR:HB3	17:O2:252:VAL:CG2	2.23	0.53
8:F2:1165:VAL:HG12	8:F2:1166:GLY:N	2.23	0.53
9:G1:255:LEU:CD1	17:O2:258:GLU:N	2.71	0.53
11:I1:1043:LEU:HA	16:N1:430:ARG:CD	2.38	0.53
11:I1:1059:PRO:CA	17:O1:277:GLU:OE2	2.57	0.53
11:I2:895:ARG:CD	17:O3:234:LEU:HD13	2.38	0.53
11:I2:1040:HIS:N	20:R3:170:LEU:CD2	2.60	0.53
11:I2:1058:GLY:N	17:O3:277:GLU:O	2.41	0.53
11:I5:1116:ASP:OD1	12:J5:241:THR:CG2	2.56	0.53
21:S3:1052:LEU:HD21	21:S3:1073:ILE:CD1	2.32	0.53
21:S4:176:MET:HE3	21:S4:232:LEU:CD1	2.38	0.53
24:V3:520:ARG:NH2	24:V3:542:GLN:HE21	2.06	0.53
26:X1:227:VAL:C	26:X1:229:SER:H	2.12	0.53
2:A2:874:VAL:HG12	6:D1:608:ILE:HA	1.90	0.53
2:A2:1305:ALA:HB1	2:A2:1306:PRO:CD	2.36	0.53
1:A3:1220:PRO:HA	3:A6:501:VAL:CA	2.15	0.53
1:A3:1270:SER:HB2	3:A6:686:THR:HG21	1.91	0.53
2:A4:691:LYS:CG	3:A6:378:ILE:O	2.52	0.53
2:A4:705:ILE:HB	3:A6:482:LYS:CB	2.39	0.53
2:A4:723:PHE:CD2	3:A6:497:GLY:N	2.77	0.53
2:A4:753:GLU:HG2	3:A6:94:SER:HA	1.90	0.53
2:A4:753:GLU:HA	3:A6:542:LEU:H	1.68	0.53
2:A4:763:LEU:O	3:A6:470:ARG:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:895:PRO:HB2	3:A6:179:TYR:HB2	0.71	0.53
2:A4:983:LEU:HD13	6:D3:497:PHE:HE2	1.68	0.53
2:A4:988:ARG:CZ	6:D3:498:GLU:O	2.57	0.53
3:A5:1001:GLU:HG2	11:I5:65:LYS:HB2	1.91	0.53
3:A5:1312:ARG:NH2	28:Z2:838:GLN:CA	2.60	0.53
3:A6:1367:THR:O	28:Z4:871:HIS:O	2.27	0.53
6:D2:440:PHE:O	6:D2:444:LEU:HD13	2.08	0.53
6:D5:440:PHE:O	6:D5:444:LEU:HD13	2.08	0.53
9:G1:255:LEU:CD1	17:O2:253:LEU:O	2.57	0.53
9:G1:262:SER:O	16:N2:411:GLN:HG2	2.06	0.53
11:I1:1036:PRO:HD2	15:M1:623:LEU:O	2.07	0.53
11:I2:887:GLN:NE2	16:N3:396:ILE:CB	2.64	0.53
11:I2:899:LEU:O	17:O3:232:LYS:HG2	2.02	0.53
11:I2:958:THR:CB	16:N3:399:HIS:HD2	2.11	0.53
11:I2:1114:VAL:CG1	16:N3:432:TYR:CD2	2.92	0.53
11:I3:8:GLU:N	11:I3:8:GLU:OE1	2.39	0.53
11:I4:465:GLU:OE1	11:I4:465:GLU:N	2.38	0.53
21:S2:1012:LEU:HD13	21:S2:1034:LEU:HD22	1.90	0.53
21:S3:684:THR:N	21:S4:1150:TYR:H	1.86	0.53
21:S3:947:GLU:H	21:S3:947:GLU:CD	2.12	0.53
21:S4:969:THR:HA	22:T4:879:ASP:OD1	2.09	0.53
23:U3:206:ILE:HG23	24:V3:336:LEU:HB3	1.91	0.53
24:V3:345:SER:HB3	24:V3:371:PHE:CE2	2.43	0.53
25:W3:178:ALA:HB1	25:W3:206:TRP:CE2	2.44	0.53
26:X2:186:ARG:HA	26:X2:190:PHE:HB2	1.90	0.53
1:A1:785:ILE:HD11	1:A1:825:ARG:CG	2.38	0.53
1:A1:874:VAL:HG11	6:D3:272:VAL:HA	1.91	0.53
1:A3:1191:ASN:O	3:A6:615:LEU:HD23	2.07	0.53
1:A3:1203:TYR:HB2	2:A4:730:THR:O	2.08	0.53
2:A4:791:ALA:CB	3:A6:247:ASP:OD1	2.57	0.53
2:A4:792:VAL:HA	3:A6:249:SER:HG	1.73	0.53
2:A4:802:TYR:CZ	3:A6:467:LEU:CA	2.87	0.53
2:A4:826:ASN:OD1	6:D3:633:LYS:HB2	2.04	0.53
2:A4:854:VAL:CG2	3:A6:172:PRO:CD	1.89	0.53
2:A4:1150:LEU:HD11	5:C4:731:LYS:CG	2.38	0.53
6:D4:440:PHE:O	6:D4:444:LEU:HD13	2.08	0.53
8:F1:1066:ALA:HB3	8:F1:1067:PRO:HD3	1.91	0.53
11:I1:896:PRO:HA	17:O1:232:LYS:HB3	1.91	0.53
11:I1:899:LEU:CD1	17:O1:230:ILE:O	2.52	0.53
11:I1:980:ILE:HG21	15:M1:618:GLN:O	2.03	0.53
11:I1:1603:ARG:NH1	11:I2:1662:ARG:CB	2.69	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1607:GLN:CG	11:I2:1739:GLU:CB	2.63	0.53
11:I2:460:GLN:OE1	11:I2:460:GLN:N	2.39	0.53
11:I2:958:THR:HA	20:R3:168:LEU:HD23	1.88	0.53
11:I2:1055:GLU:O	17:O3:278:GLU:N	2.41	0.53
11:I2:1066:LEU:O	16:N3:427:VAL:N	2.35	0.53
11:I2:1069:SER:OG	16:N3:427:VAL:CB	2.53	0.53
21:S1:1083:TRP:HA	21:S1:1083:TRP:HE3	1.73	0.53
22:T3:781:THR:HG23	22:T3:783:THR:H	1.73	0.53
22:T4:885:ARG:HH11	22:T4:885:ARG:CG	2.11	0.53
24:V1:520:ARG:NH2	24:V1:542:GLN:HE21	2.06	0.53
25:W2:236:GLN:HB2	25:W2:243:TRP:CE3	2.42	0.53
25:W4:178:ALA:HB1	25:W4:206:TRP:CE2	2.44	0.53
25:W4:275:ASP:N	25:W4:275:ASP:OD1	2.42	0.53
28:Z4:125:ASP:OD1	28:Z4:127:SER:OG	2.17	0.53
1:A1:870:HIS:CE1	6:D3:279:HIS:CE1	2.94	0.53
2:A2:227:SER:CA	6:D1:712:ASP:H	2.21	0.53
2:A2:882:SER:CB	6:D1:604:ASP:OD2	2.56	0.53
2:A2:973:GLU:HB3	6:D1:498:GLU:CG	2.39	0.53
2:A2:1159:ASP:N	3:A5:176:LEU:HB2	2.24	0.53
1:A3:1017:THR:C	6:D3:819:ASN:CB	2.78	0.53
1:A3:1017:THR:HG21	1:A3:1048:ARG:HH11	1.74	0.53
1:A3:1237:LEU:CD2	3:A6:597:GLU:OE2	2.57	0.53
1:A3:1244:LEU:CG	3:A6:633:MET:CE	2.79	0.53
1:A3:1254:LEU:CD2	3:A6:634:ASP:HA	2.38	0.53
2:A4:619:CYS:HA	3:A6:495:ASP:OD2	2.09	0.53
2:A4:689:LYS:HD3	3:A6:381:LEU:HD21	1.88	0.53
2:A4:691:LYS:CB	3:A6:316:ARG:NH2	2.52	0.53
2:A4:717:VAL:CG2	3:A6:403:ARG:CZ	2.84	0.53
2:A4:762:LYS:HB3	3:A6:472:SER:HB2	1.82	0.53
2:A4:798:LYS:CD	3:A6:314:TRP:CE2	2.91	0.53
2:A4:895:PRO:CA	4:B6:344:ALA:HB2	2.30	0.53
2:A4:898:LEU:HB2	3:A6:177:ILE:CA	2.30	0.53
2:A4:947:LYS:HD2	3:A6:203:ILE:HG12	1.89	0.53
3:A6:443:ILE:C	6:D3:719:LEU:HD13	1.77	0.53
6:D6:532:LEU:O	6:D6:536:THR:HG23	2.08	0.53
6:D6:804:SER:HB2	22:T3:764:PHE:HE2	0.76	0.53
6:D7:530:ARG:HG2	11:I3:181:GLN:CA	2.37	0.53
8:F1:1261:TYR:O	17:O2:263:GLN:CA	2.57	0.53
11:I1:884:LEU:HD22	16:N1:396:ILE:CD1	2.38	0.53
11:I1:941:GLY:CA	17:O1:260:LEU:HA	2.39	0.53
11:I1:955:LYS:HZ2	17:O1:249:ARG:NH2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1043:LEU:HG	20:R1:170:LEU:HD22	1.90	0.53
11:I1:1046:HIS:HD1	17:O1:284:LYS:N	1.62	0.53
11:I2:966:TRP:HB3	20:R3:150:ASN:O	2.09	0.53
11:I2:983:LEU:O	15:M3:614:ASP:OD2	2.27	0.53
11:I2:997:SER:CB	16:N3:427:VAL:CG2	2.69	0.53
11:I5:460:GLN:OE1	11:I5:460:GLN:N	2.39	0.53
21:S1:353:VAL:HG22	21:S1:374:THR:HG22	1.91	0.53
23:U3:341:HIS:CE1	23:U3:343:ILE:HD12	2.43	0.53
24:V1:186:PHE:HD1	24:V1:487:LEU:HD11	1.74	0.53
24:V1:345:SER:HB3	24:V1:371:PHE:CE2	2.43	0.53
24:V3:186:PHE:HD1	24:V3:487:LEU:HD11	1.74	0.53
24:V4:525:ASP:HA	24:V4:528:LEU:HD12	1.90	0.53
25:W3:212:TRP:HA	25:W3:222:LEU:HD23	1.90	0.53
1:A1:1197:ALA:C	2:A2:728:LYS:HZ2	2.12	0.53
1:A3:1333:ARG:HA	6:D3:637:LYS:CD	2.38	0.53
2:A4:227:SER:HB3	6:D3:709:ARG:O	2.09	0.53
2:A4:553:ASP:HA	3:A6:435:PRO:N	2.13	0.53
2:A4:621:GLN:NE2	3:A6:110:TYR:CD2	2.70	0.53
2:A4:646:ILE:HD11	3:A6:500:LYS:HG2	1.88	0.53
2:A4:870:HIS:CD2	6:D3:566:PHE:HD1	2.25	0.53
2:A4:968:SER:O	6:D3:203:PRO:CD	2.56	0.53
2:A4:975:GLU:O	6:D3:502:LEU:N	2.41	0.53
3:A6:1367:THR:CG2	28:Z4:876:LEU:N	2.70	0.53
6:D1:440:PHE:O	6:D1:444:LEU:HD13	2.08	0.53
6:D7:440:PHE:O	6:D7:444:LEU:HD13	2.08	0.53
8:F1:1264:ARG:HH12	17:O2:264:ILE:CD1	2.09	0.53
8:F1:1265:GLN:OE1	17:O2:257:ALA:O	2.27	0.53
11:I1:938:CYS:O	17:O1:260:LEU:O	2.27	0.53
11:I1:940:LEU:CD1	17:O1:258:GLU:HB3	2.38	0.53
11:I1:1104:LEU:CD1	16:N1:433:GLU:CG	2.59	0.53
11:I2:408:PRO:O	11:I2:409:SER:OG	2.16	0.53
11:I2:465:GLU:N	11:I2:465:GLU:OE1	2.38	0.53
11:I2:881:ILE:HB	17:O3:249:ARG:HG2	1.85	0.53
11:I2:922:ASP:H	15:M3:592:LEU:CG	2.21	0.53
11:I2:932:VAL:CG1	15:M3:612:PRO:HB3	2.35	0.53
11:I2:1032:THR:O	20:R3:173:LEU:HG	2.08	0.53
11:I2:1045:PHE:HD1	17:O3:279:ILE:HG22	1.73	0.53
11:I2:1054:ILE:HG21	17:O3:278:GLU:HB3	1.90	0.53
11:I3:1116:ASP:OD1	12:J3:241:THR:CG2	2.56	0.53
11:I3:1272:TYR:CZ	26:X1:524:SER:HB3	2.33	0.53
11:I4:1270:LYS:HE3	26:X3:527:VAL:HG11	0.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:659:ARG:HA	21:S2:1102:VAL:HG13	1.91	0.53
23:U2:350:VAL:HG22	23:U2:355:LEU:HD22	1.90	0.53
26:X2:227:VAL:C	26:X2:229:SER:H	2.12	0.53
27:Y2:53:ALA:HB1	27:Y2:84:TRP:CZ2	2.44	0.53
28:Z2:102:MET:HB3	28:Z2:107:THR:HG21	1.90	0.53
2:A2:1131:ILE:HB	3:A5:140:ALA:H	1.73	0.52
1:A3:1098:ARG:HH21	11:I2:1421:ARG:HH21	1.57	0.52
1:A3:1280:GLN:OE1	3:A6:571:ARG:NH2	2.41	0.52
2:A4:635:ARG:NH2	3:A6:603:ASN:N	2.44	0.52
2:A4:673:HIS:O	3:A6:98:LEU:C	2.44	0.52
2:A4:717:VAL:HG21	3:A6:476:PHE:CG	2.43	0.52
2:A4:733:GLY:O	3:A6:543:GLY:O	2.27	0.52
2:A4:817:VAL:HG11	3:A6:146:LYS:HE3	1.90	0.52
2:A4:859:GLN:CD	3:A6:176:LEU:CD2	2.76	0.52
2:A4:954:ILE:O	4:B6:343:LYS:O	2.27	0.52
2:A4:976:LEU:CD1	6:D3:501:LEU:HB3	2.37	0.52
3:A5:153:ILE:CG1	5:C2:739:MET:CE	2.85	0.52
3:A6:1391:ARG:N	28:Z4:908:LEU:O	2.42	0.52
4:B5:345:LYS:O	5:C2:737:LYS:HD2	2.09	0.52
6:D3:440:PHE:O	6:D3:444:LEU:HD13	2.08	0.52
8:F1:383:HIS:ND1	8:F1:471:GLN:OE1	2.42	0.52
8:F2:1807:GLU:OE1	8:F2:1807:GLU:N	2.42	0.52
11:I1:860:LEU:HB3	17:O1:262:ASP:OD1	2.10	0.52
11:I1:924:ILE:O	15:M1:597:LYS:CG	2.56	0.52
11:I1:966:TRP:HZ3	20:R1:167:GLN:CG	1.66	0.52
11:I1:967:SER:HB3	20:R1:150:ASN:HD21	1.74	0.52
11:I1:1030:ARG:HD2	20:R1:175:GLN:OE1	2.09	0.52
11:I1:1665:LEU:N	11:I2:1668:HIS:N	2.52	0.52
11:I2:797:LEU:HD13	17:O3:245:GLU:C	2.25	0.52
11:I2:960:SER:O	20:R3:165:SER:CB	2.56	0.52
11:I2:1020:ALA:C	16:N3:406:HIS:ND1	2.60	0.52
11:I2:1052:LEU:HD23	16:N3:434:LEU:CD1	2.37	0.52
11:I2:1067:PHE:HB3	16:N3:431:VAL:HG23	1.90	0.52
11:I2:1103:LEU:CD2	20:R3:174:ARG:HB3	2.37	0.52
11:I2:1106:LYS:HG3	16:N3:439:ARG:HH22	1.73	0.52
11:I4:94:GLU:N	11:I4:94:GLU:OE1	2.38	0.52
11:I4:1274:HIS:NE2	26:X3:526:CYS:N	2.53	0.52
17:O4:109:PRO:CB	18:P4:318:PRO:HB3	2.39	0.52
21:S2:622:GLY:O	21:S2:623:ARG:O	2.27	0.52
22:T2:853:CYS:O	22:T2:857:LEU:HG	2.09	0.52
24:V1:433:GLU:OE1	24:V1:467:SER:OG	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:186:PHE:HD1	24:V2:487:LEU:HD11	1.74	0.52
25:W1:154:ALA:HB2	25:W1:212:TRP:CE3	2.44	0.52
1:A1:1196:GLU:O	2:A2:729:SER:HB2	2.09	0.52
2:A2:226:PRO:HG2	6:D1:711:PHE:N	2.24	0.52
2:A2:970:PHE:CA	6:D1:192:TYR:CE1	2.53	0.52
2:A2:977:VAL:HG21	6:D1:491:HIS:C	2.29	0.52
2:A2:980:ARG:HE	6:D1:526:LEU:N	2.07	0.52
2:A2:980:ARG:HB2	6:D1:526:LEU:HB2	1.89	0.52
2:A2:1023:ILE:O	2:A2:1024:ASP:HB3	2.08	0.52
2:A2:1139:ILE:HG12	3:A5:130:ILE:CG2	2.35	0.52
1:A3:1021:LEU:CG	6:D3:816:VAL:CG1	2.61	0.52
1:A3:1172:HIS:HA	3:A6:587:VAL:O	2.08	0.52
2:A4:78:VAL:O	3:A6:383:PRO:O	2.27	0.52
2:A4:89:LEU:CD1	3:A6:406:LEU:CG	2.87	0.52
2:A4:541:PRO:O	3:A6:364:HIS:HA	2.10	0.52
2:A4:619:CYS:O	3:A6:111:GLU:N	2.42	0.52
2:A4:776:MET:HB2	3:A6:519:LEU:HD11	1.90	0.52
3:A5:1372:THR:CB	28:Z2:828:LEU:CB	2.88	0.52
3:A5:1395:LYS:H	28:Z2:870:ILE:C	2.08	0.52
3:A6:442:ARG:NH2	6:D3:692:LEU:HD21	2.24	0.52
11:I1:841:PHE:O	15:M1:587:GLU:C	2.47	0.52
11:I1:842:ASN:OD1	11:I1:843:GLU:N	2.43	0.52
11:I1:932:VAL:N	15:M1:604:ASN:HB2	2.23	0.52
11:I1:1118:LEU:CD1	16:N1:432:TYR:HE2	2.20	0.52
11:I1:1284:GLU:OE1	11:I1:1284:GLU:N	2.38	0.52
11:I2:874:LEU:HG	17:O3:255:GLY:C	2.26	0.52
11:I2:890:TYR:CA	17:O3:238:ALA:O	2.58	0.52
11:I2:922:ASP:CB	20:R3:163:LEU:CD1	2.26	0.52
11:I2:1038:ILE:HD13	15:M3:620:VAL:CB	2.27	0.52
11:I2:1046:HIS:CA	17:O3:280:GLU:HB3	2.39	0.52
11:I3:1275:SER:CB	26:X1:522:MET:O	2.55	0.52
11:I4:842:ASN:OD1	11:I4:843:GLU:N	2.43	0.52
11:I5:1273:GLU:O	26:X2:521:TRP:CA	2.43	0.52
18:P1:277:PRO:HB2	18:P4:322:LYS:CA	2.38	0.52
22:T3:910:MET:O	22:T3:914:GLN:HG3	2.10	0.52
24:V1:548:TYR:HB2	25:W1:64:PRO:HB3	1.90	0.52
24:V4:397:GLU:OE1	24:V4:397:GLU:N	2.40	0.52
26:X1:280:VAL:HG21	26:X1:321:ALA:HB3	1.89	0.52
27:Y1:10:ASP:HB3	27:Y1:29:SER:HB2	1.92	0.52
28:Z2:232:ARG:NE	28:Z2:249:THR:OG1	2.39	0.52
2:A2:865:ALA:N	6:D1:604:ASP:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:872:ALA:CB	6:D1:565:MET:SD	2.94	0.52
2:A2:1136:LYS:CA	3:A5:138:LEU:CB	2.87	0.52
2:A2:1141:GLU:O	3:A5:129:ASN:CB	2.51	0.52
1:A3:1306:PRO:HA	3:A6:715:GLU:HG2	1.90	0.52
2:A4:86:ASN:N	3:A6:393:HIS:C	2.54	0.52
2:A4:761:GLN:CD	3:A6:547:GLU:N	2.63	0.52
2:A4:772:SER:O	3:A6:489:LEU:CD2	2.58	0.52
2:A4:802:TYR:OH	3:A6:467:LEU:CA	2.57	0.52
2:A4:864:ARG:HG2	6:D3:609:ILE:HB	1.91	0.52
2:A4:878:LEU:CG	6:D3:607:PRO:HG2	2.39	0.52
2:A4:985:ALA:CA	6:D3:500:LYS:CA	2.88	0.52
3:A5:175:GLU:CB	5:C2:733:LEU:HD11	2.38	0.52
3:A5:1029:ILE:CG2	11:I5:70:GLU:C	2.71	0.52
3:A6:1399:ARG:HH21	28:Z4:969:MET:H	1.56	0.52
6:D7:532:LEU:O	6:D7:536:THR:HG23	2.08	0.52
8:F1:1266:MET:CE	17:O2:262:ASP:OD1	2.47	0.52
8:F1:1807:GLU:N	8:F1:1807:GLU:OE1	2.42	0.52
11:I1:954:GLU:O	16:N1:399:HIS:CA	2.56	0.52
11:I1:1113:LEU:CB	16:N1:435:ALA:HB1	2.37	0.52
11:I2:942:HIS:CG	17:O3:259:ASP:CA	2.92	0.52
11:I2:943:ALA:N	17:O3:263:GLN:OE1	2.43	0.52
11:I4:77:GLU:OE1	11:I4:77:GLU:N	2.38	0.52
11:I5:842:ASN:OD1	11:I5:843:GLU:N	2.43	0.52
11:I5:1279:THR:HG23	26:X2:521:TRP:N	2.22	0.52
17:O1:81:LEU:O	17:O1:85:LYS:HG2	2.10	0.52
22:T3:760:PHE:HD1	22:T3:864:ILE:HD11	1.74	0.52
22:T3:818:TYR:CZ	22:T3:861:LEU:HD21	2.45	0.52
22:T4:738:ALA:HA	22:T4:833:ARG:HG2	1.92	0.52
23:U2:206:ILE:HG23	24:V2:336:LEU:HB3	1.91	0.52
24:V2:525:ASP:HA	24:V2:528:LEU:HD12	1.90	0.52
24:V3:433:GLU:OE1	24:V3:467:SER:OG	2.20	0.52
24:V4:345:SER:HB3	24:V4:371:PHE:CE2	2.43	0.52
25:W2:154:ALA:HB2	25:W2:212:TRP:CE3	2.44	0.52
25:W2:275:ASP:OD1	25:W2:275:ASP:N	2.42	0.52
25:W4:212:TRP:HA	25:W4:222:LEU:HD23	1.90	0.52
27:Y3:29:SER:C	27:Y3:31:GLN:H	2.12	0.52
27:Y4:53:ALA:HB1	27:Y4:84:TRP:CZ2	2.44	0.52
28:Z2:500:GLU:HB2	28:Z2:507:PHE:CZ	2.45	0.52
1:A1:831:ALA:O	6:D3:298:ASN:HB3	1.96	0.52
1:A1:1204:TRP:CZ3	2:A2:757:LEU:CG	2.92	0.52
2:A2:868:GLN:HB3	6:D1:570:VAL:CB	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:986:THR:HG23	6:D1:497:PHE:CD1	2.45	0.52
2:A2:1151:THR:CG2	5:C2:734:VAL:O	2.57	0.52
1:A3:1281:LEU:HD13	3:A6:577:ASP:C	2.29	0.52
2:A4:806:PHE:HB3	3:A6:470:ARG:O	2.09	0.52
2:A4:818:LEU:C	3:A6:147:LEU:C	2.63	0.52
2:A4:879:LEU:CD1	6:D3:564:ASN:HD21	2.19	0.52
2:A4:958:LEU:HD12	4:B6:343:LYS:N	1.29	0.52
3:A5:1029:ILE:HA	11:I5:69:GLY:CA	2.28	0.52
3:A5:1092:ASN:N	11:I5:37:GLU:H	2.07	0.52
3:A5:1094:ILE:CG1	11:I5:4:LEU:CD1	2.70	0.52
3:A5:1310:ARG:O	28:Z2:830:LEU:C	2.46	0.52
6:D7:530:ARG:HG2	11:I3:182:VAL:N	2.25	0.52
8:F1:982:PRO:HB2	11:I1:1388:GLU:HG2	1.91	0.52
11:I1:878:GLN:HE21	17:O1:252:VAL:CG1	2.22	0.52
11:I1:895:ARG:HG3	17:O1:235:ASN:N	2.07	0.52
11:I1:925:LEU:CD1	20:R1:163:LEU:HA	2.38	0.52
11:I1:959:SER:HG	11:I1:960:SER:N	1.94	0.52
11:I1:976:ARG:O	20:R1:150:ASN:HB2	2.09	0.52
11:I1:1736:LEU:CD1	11:I2:1607:GLN:NE2	2.67	0.52
11:I2:896:PRO:HD3	17:O3:233:THR:CG2	2.38	0.52
11:I2:1034:ASP:H	20:R3:177:LEU:HD23	1.73	0.52
11:I3:1273:GLU:CB	26:X1:527:VAL:N	2.72	0.52
21:S2:353:VAL:HG22	21:S2:374:THR:HG22	1.91	0.52
21:S4:353:VAL:HG22	21:S4:374:THR:HG22	1.91	0.52
21:S4:1012:LEU:HD13	21:S4:1034:LEU:HD22	1.90	0.52
22:T2:738:ALA:HA	22:T2:833:ARG:HG2	1.92	0.52
22:T4:781:THR:HG23	22:T4:783:THR:H	1.73	0.52
23:U1:350:VAL:HG22	23:U1:355:LEU:HD22	1.89	0.52
23:U2:222:VAL:HG12	24:V2:256:VAL:HA	1.90	0.52
23:U3:278:GLN:CG	25:W4:189:SER:O	2.56	0.52
24:V2:520:ARG:HH21	24:V2:542:GLN:HE21	1.58	0.52
2:A2:1121:LEU:O	3:A5:136:GLU:OE1	2.27	0.52
1:A3:1021:LEU:CA	6:D3:816:VAL:CG1	2.85	0.52
1:A3:1189:LEU:CD1	3:A6:583:LEU:HD21	2.39	0.52
1:A3:1231:VAL:HG22	3:A6:613:ALA:C	2.29	0.52
1:A3:1251:VAL:H	3:A6:633:MET:CB	2.21	0.52
1:A3:1258:VAL:N	3:A6:623:SER:HB3	2.25	0.52
2:A4:92:ASP:HB3	3:A6:365:MET:HE1	1.92	0.52
2:A4:537:ALA:N	3:A6:368:SER:OG	2.18	0.52
2:A4:675:ALA:HB2	3:A6:508:LEU:CD1	2.39	0.52
2:A4:801:THR:HB	3:A6:381:LEU:HG	1.85	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:808:GLN:CG	3:A6:383:PRO:HG2	2.23	0.52
2:A4:975:GLU:O	6:D3:501:LEU:CA	2.57	0.52
3:A5:234:LEU:HD12	5:C2:737:LYS:HB3	1.90	0.52
3:A5:1369:ILE:HG12	28:Z2:832:PHE:N	2.20	0.52
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CA	2.40	0.52
3:A5:1395:LYS:CE	28:Z2:872:TYR:N	2.71	0.52
8:F1:835:ILE:O	8:F1:835:ILE:HG13	2.09	0.52
11:I1:747:GLU:N	11:I1:747:GLU:OE1	2.38	0.52
11:I1:1034:ASP:CG	20:R1:177:LEU:HD23	2.26	0.52
11:I1:1644:ARG:CZ	12:J1:275:PHE:CE2	2.93	0.52
11:I2:846:ILE:HG21	17:O3:247:TRP:HZ2	1.66	0.52
11:I2:953:LEU:HD11	15:M3:606:LEU:H	1.74	0.52
11:I2:976:ARG:CB	20:R3:149:ARG:CB	2.53	0.52
11:I2:1052:LEU:O	17:O3:285:LYS:N	2.43	0.52
11:I2:1054:ILE:HA	17:O3:281:ALA:N	2.11	0.52
11:I2:1644:ARG:HD3	12:J2:275:PHE:CE1	2.45	0.52
11:I2:1644:ARG:CZ	12:J2:275:PHE:CE2	2.93	0.52
21:S3:678:GLU:CB	21:S4:1143:VAL:N	2.73	0.52
22:T2:781:THR:HG23	22:T2:783:THR:H	1.73	0.52
22:T2:910:MET:O	22:T2:914:GLN:HG3	2.10	0.52
23:U3:159:ASP:OD2	24:V3:319:LEU:N	2.29	0.52
24:V2:548:TYR:HB2	25:W2:64:PRO:HB3	1.90	0.52
25:W1:275:ASP:OD1	25:W1:275:ASP:N	2.41	0.52
25:W4:154:ALA:HB2	25:W4:212:TRP:CE3	2.44	0.52
27:Y3:10:ASP:HB3	27:Y3:29:SER:HB2	1.92	0.52
28:Z4:70:TYR:HA	28:Z4:80:THR:O	2.10	0.52
1:A1:1223:GLU:CG	2:A2:734:LEU:HD21	2.36	0.52
2:A2:227:SER:CB	6:D1:711:PHE:CG	2.84	0.52
2:A2:235:TYR:HE1	4:B2:347:LEU:CD1	2.21	0.52
2:A2:826:ASN:HB3	6:D1:633:LYS:HB2	1.83	0.52
2:A2:1144:ASP:CA	3:A5:129:ASN:CG	2.77	0.52
1:A3:1204:TRP:CH2	3:A6:95:TYR:CE2	2.93	0.52
1:A3:1220:PRO:HG2	2:A4:672:ARG:NH1	2.24	0.52
2:A4:607:ARG:CA	3:A6:506:SER:CB	2.78	0.52
2:A4:725:GLU:C	3:A6:575:LEU:HB2	2.29	0.52
2:A4:859:GLN:CA	3:A6:134:VAL:H	2.21	0.52
2:A4:868:GLN:HG2	6:D3:598:ILE:HD13	1.90	0.52
3:A5:222:ALA:HB1	5:C2:739:MET:HE1	1.91	0.52
3:A5:862:LEU:CD1	3:A5:904:GLN:HB3	2.40	0.52
3:A5:1098:ARG:CD	11:I5:29:GLN:HG3	2.30	0.52
5:C1:732:LYS:HG2	11:I1:1228:GLU:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1635:HIS:HD2	11:I2:1674:HIS:CD2	2.27	0.52
11:I2:884:LEU:HD13	16:N3:400:LEU:HG	1.91	0.52
11:I2:942:HIS:HB2	17:O3:259:ASP:HA	1.77	0.52
11:I2:980:ILE:C	20:R3:147:LEU:HD13	1.95	0.52
11:I2:1035:GLN:O	16:N3:441:PHE:CZ	2.63	0.52
11:I3:1326:GLU:OE1	12:J3:251:TYR:CE2	2.63	0.52
11:I3:1644:ARG:HD3	12:J3:275:PHE:CE1	2.45	0.52
21:S2:947:GLU:H	21:S2:947:GLU:CD	2.12	0.52
21:S4:443:VAL:HG13	21:S4:445:ASN:CG	2.30	0.52
22:T1:738:ALA:HA	22:T1:833:ARG:HG2	1.92	0.52
22:T4:910:MET:O	22:T4:914:GLN:HG3	2.10	0.52
24:V2:178:THR:HG21	24:V2:485:ALA:HB2	1.90	0.52
24:V4:520:ARG:HH21	24:V4:542:GLN:HE21	1.58	0.52
25:W1:117:LEU:HB2	25:W1:153:TRP:HE1	1.75	0.52
27:Y2:10:ASP:HB3	27:Y2:29:SER:HB2	1.92	0.52
27:Y4:29:SER:C	27:Y4:31:GLN:H	2.13	0.52
1:A1:1017:THR:HG21	1:A1:1048:ARG:HH11	1.74	0.52
2:A2:869:ALA:CB	6:D1:583:ILE:HG21	2.40	0.52
2:A2:879:LEU:N	6:D1:567:LEU:CD1	2.64	0.52
2:A2:980:ARG:CG	6:D1:526:LEU:HB3	2.39	0.52
2:A2:982:THR:OG1	6:D1:494:LEU:O	2.26	0.52
2:A2:985:ALA:N	6:D1:498:GLU:CA	2.71	0.52
1:A3:1051:THR:O	6:D3:809:ALA:O	2.27	0.52
1:A3:1056:PHE:CE1	6:D3:811:LEU:N	2.77	0.52
1:A3:1164:TYR:O	3:A6:594:LEU:CD2	2.55	0.52
1:A3:1188:ASN:ND2	3:A6:646:ILE:CG1	2.63	0.52
1:A3:1271:ILE:HD13	3:A6:553:ASP:H	1.74	0.52
1:A3:1328:ARG:HB3	3:A6:127:HIS:O	2.10	0.52
2:A4:536:ALA:N	3:A6:368:SER:O	2.32	0.52
2:A4:553:ASP:CA	3:A6:435:PRO:CD	2.82	0.52
2:A4:622:GLY:CA	3:A6:453:SER:HA	2.39	0.52
2:A4:691:LYS:C	3:A6:316:ARG:NH2	2.63	0.52
2:A4:763:LEU:HD12	3:A6:470:ARG:C	2.30	0.52
2:A4:890:ALA:CB	3:A6:175:GLU:CD	2.78	0.52
3:A5:188:ALA:HB1	5:C2:748:ASN:OD1	2.10	0.52
3:A5:993:ASN:HA	11:I5:57:GLU:HA	1.91	0.52
3:A5:1029:ILE:C	11:I5:69:GLY:O	2.48	0.52
6:D7:530:ARG:NH1	11:I3:182:VAL:CA	2.73	0.52
8:F1:1262:HIS:HE1	17:O2:259:ASP:H	1.56	0.52
8:F2:383:HIS:ND1	8:F2:471:GLN:OE1	2.42	0.52
9:G1:255:LEU:HD13	17:O2:258:GLU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:270:ARG:CB	16:N2:414:ALA:C	2.74	0.52
11:I1:916:ALA:CA	15:M1:586:ASP:CA	2.80	0.52
11:I1:950:LEU:HD23	15:M1:606:LEU:HD23	1.91	0.52
11:I1:950:LEU:HB3	16:N1:406:HIS:C	2.28	0.52
11:I1:1048:GLU:OE2	17:O1:288:GLU:CG	2.58	0.52
11:I1:1108:PRO:CG	16:N1:444:SER:N	2.73	0.52
11:I1:1739:GLU:HB2	11:I2:1540:LYS:NZ	2.24	0.52
11:I2:915:ALA:HB2	15:M3:584:GLN:N	2.23	0.52
11:I2:1103:LEU:CB	20:R3:174:ARG:HB3	2.36	0.52
11:I3:1277:LEU:HD13	26:X1:518:ASP:C	2.18	0.52
11:I4:1644:ARG:HD3	12:J4:275:PHE:CE1	2.45	0.52
17:O3:81:LEU:O	17:O3:85:LYS:HG2	2.10	0.52
21:S3:443:VAL:HG13	21:S3:445:ASN:CG	2.30	0.52
23:U4:206:ILE:HG23	24:V4:336:LEU:HB3	1.91	0.52
1:A1:1221:ILE:HD11	2:A2:618:ALA:HB1	1.90	0.52
2:A2:864:ARG:HE	6:D1:632:ALA:HB1	1.72	0.52
2:A2:980:ARG:HD3	6:D1:503:LEU:CB	1.89	0.52
2:A2:1139:ILE:HG13	3:A5:130:ILE:HG21	1.89	0.52
1:A3:1197:ALA:N	3:A6:609:GLU:CA	2.51	0.52
1:A3:1201:ARG:O	2:A4:732:GLN:HA	2.09	0.52
1:A3:1227:PRO:HB3	3:A6:552:PHE:CE2	2.38	0.52
1:A3:1254:LEU:CA	3:A6:638:GLU:OE2	2.58	0.52
2:A4:90:GLN:OE1	3:A6:408:ALA:HA	2.09	0.52
2:A4:648:TYR:CE2	3:A6:503:GLN:HB3	2.45	0.52
2:A4:680:LEU:O	3:A6:405:PHE:HZ	1.85	0.52
2:A4:754:HIS:NE2	3:A6:685:ARG:NH2	2.47	0.52
2:A4:826:ASN:OD1	3:A6:135:PHE:CE1	2.55	0.52
2:A4:859:GLN:HG2	3:A6:134:VAL:CG2	2.00	0.52
2:A4:899:THR:H	3:A6:178:GLY:HA3	0.48	0.52
2:A4:983:LEU:HD23	6:D3:528:PHE:CD1	2.45	0.52
2:A4:1094:ILE:HD13	6:D4:708:ASP:N	2.25	0.52
3:A5:1312:ARG:HD2	28:Z2:832:PHE:HA	1.76	0.52
3:A6:785:ILE:HD11	3:A6:825:ARG:CG	2.38	0.52
3:A6:862:LEU:CD1	3:A6:904:GLN:HB3	2.40	0.52
5:C3:732:LYS:HE2	11:I2:1228:GLU:HG3	1.91	0.52
9:G2:263:MET:SD	17:O4:263:GLN:OE1	2.68	0.52
11:I1:846:ILE:HB	17:O1:247:TRP:CH2	2.45	0.52
11:I1:1109:LEU:N	16:N1:442:GLU:N	2.58	0.52
11:I1:1608:SER:O	12:J2:299:GLY:N	2.42	0.52
11:I1:1664:PHE:CE2	11:I2:1668:HIS:CA	2.93	0.52
11:I1:1668:HIS:CB	11:I2:1668:HIS:O	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1677:LYS:NZ	11:I2:1543:LEU:CD1	2.73	0.52
11:I2:947:LEU:CD1	17:O3:260:LEU:CD2	2.58	0.52
11:I2:955:LYS:HG3	16:N3:403:VAL:CG2	2.38	0.52
11:I2:1048:GLU:HG3	17:O3:288:GLU:HG2	1.87	0.52
11:I4:1326:GLU:OE1	12:J4:251:TYR:CE2	2.63	0.52
15:M3:598:GLU:OE1	17:O3:254:ARG:NH1	2.40	0.52
21:S1:947:GLU:H	21:S1:947:GLU:CD	2.12	0.52
21:S2:1036:ILE:HD11	21:S2:1073:ILE:HA	1.92	0.52
22:T2:818:TYR:CZ	22:T2:861:LEU:HD21	2.45	0.52
22:T4:891:VAL:CG1	22:T4:891:VAL:O	2.58	0.52
23:U2:341:HIS:CE1	23:U2:343:ILE:HD12	2.43	0.52
23:U4:431:ILE:HD12	23:U4:431:ILE:H	1.74	0.52
25:W1:178:ALA:HB1	25:W1:206:TRP:CE2	2.44	0.52
25:W2:117:LEU:HB2	25:W2:153:TRP:HE1	1.75	0.52
28:Z2:70:TYR:HA	28:Z2:80:THR:O	2.10	0.52
1:A3:1083:SER:O	6:D3:794:THR:O	2.28	0.52
1:A3:1162:ASN:CA	3:A6:649:GLY:H	2.22	0.52
1:A3:1196:GLU:O	3:A6:609:GLU:CA	2.55	0.52
1:A3:1220:PRO:HG2	2:A4:672:ARG:HH11	1.74	0.52
1:A3:1230:TYR:CD2	3:A6:605:TYR:CG	2.98	0.52
2:A4:85:VAL:CG1	3:A6:395:MET:CA	2.88	0.52
2:A4:682:ARG:CG	3:A6:432:VAL:C	2.76	0.52
2:A4:717:VAL:HG21	3:A6:403:ARG:NH2	2.15	0.52
2:A4:723:PHE:CA	3:A6:495:ASP:C	2.76	0.52
2:A4:778:PHE:HA	6:D3:676:ALA:C	2.30	0.52
2:A4:802:TYR:HH	3:A6:467:LEU:C	2.13	0.52
2:A4:852:ASP:CB	3:A6:154:GLY:C	2.58	0.52
2:A4:911:TYR:CZ	6:D3:555:ARG:NH2	2.61	0.52
3:A5:232:LEU:CD2	5:C2:739:MET:C	2.78	0.52
8:F2:835:ILE:O	8:F2:835:ILE:HG13	2.09	0.52
9:G1:260:THR:C	17:O2:256:TYR:HE1	2.12	0.52
9:G1:263:MET:SD	16:N2:407:ALA:C	2.88	0.52
9:G2:258:LYS:C	17:O4:259:ASP:OD1	2.48	0.52
11:I1:875:ARG:O	17:O1:248:SER:HB2	2.10	0.52
11:I1:981:VAL:N	15:M1:621:ARG:HD2	1.97	0.52
11:I1:1041:GLN:N	15:M1:620:VAL:HG23	2.22	0.52
11:I1:1104:LEU:CD1	16:N1:433:GLU:CA	2.68	0.52
11:I1:1668:HIS:HB3	11:I2:1668:HIS:O	2.10	0.52
11:I2:877:ILE:HD11	17:O3:254:ARG:HG2	1.91	0.52
11:I2:936:LYS:CE	15:M3:612:PRO:HG2	2.40	0.52
11:I3:842:ASN:OD1	11:I3:843:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:P2:320:GLN:CD	18:P3:278:ASN:HB3	2.28	0.52
21:S1:685:PRO:O	21:S2:1148:TYR:O	2.28	0.52
22:T1:818:TYR:CZ	22:T1:861:LEU:HD21	2.45	0.52
23:U3:431:ILE:HD12	23:U3:431:ILE:H	1.75	0.52
24:V1:524:ASN:O	24:V1:528:LEU:HG	2.10	0.52
24:V3:389:THR:O	24:V3:393:GLY:HA3	2.10	0.52
27:Y3:53:ALA:HB1	27:Y3:84:TRP:CZ2	2.44	0.52
1:A1:1331:GLU:OE1	2:A2:857:LYS:NZ	2.39	0.52
2:A2:225:THR:N	6:D1:709:ARG:NE	2.57	0.52
2:A2:825:ARG:CD	6:D1:633:LYS:NZ	2.46	0.52
2:A2:989:MSE:HE3	6:D1:239:THR:C	2.30	0.52
2:A2:1122:LEU:HD13	3:A5:135:PHE:CE2	2.43	0.52
1:A3:1228:TYR:CB	3:A6:576:VAL:HG21	2.22	0.52
1:A3:1241:ARG:CG	3:A6:597:GLU:OE1	2.58	0.52
1:A3:1263:ILE:O	3:A6:712:THR:O	2.28	0.52
1:A3:1393:THR:OG1	3:A6:229:SER:CB	2.57	0.52
2:A4:685:ARG:NH1	3:A6:432:VAL:CG2	1.76	0.52
2:A4:689:LYS:HZ2	3:A6:336:ILE:HG21	1.68	0.52
2:A4:770:GLY:HA3	3:A6:469:PHE:CD2	1.85	0.52
3:A5:161[A]:ASP:O	5:C2:744:PHE:HB3	2.10	0.52
3:A5:999:SER:O	11:I5:64:LYS:HG3	2.08	0.52
3:A5:1027:HIS:CG	11:I5:67:LYS:HG3	2.45	0.52
3:A6:115:SER:CB	6:D3:683:LYS:CG	2.88	0.52
3:A6:446:LEU:HG	6:D3:730:ARG:CG	2.36	0.52
8:F1:1136:GLN:C	17:O2:248:SER:HG	2.12	0.52
8:F1:1267:ARG:NH2	17:O2:268:GLY:CA	2.73	0.52
9:G1:252:LEU:O	15:M2:602:MET:CB	2.56	0.52
11:I1:900:ARG:HG2	17:O1:232:LYS:HZ3	1.67	0.52
11:I1:1326:GLU:OE1	12:J1:251:TYR:CE2	2.63	0.52
11:I2:842:ASN:OD1	11:I2:843:GLU:N	2.43	0.52
11:I2:879:VAL:H	17:O3:251:ILE:HB	1.74	0.52
11:I2:942:HIS:CG	17:O3:259:ASP:HA	2.45	0.52
11:I2:951:LYS:HE2	16:N3:404:GLU:HG3	1.92	0.52
11:I2:1021:ILE:C	16:N3:406:HIS:CE1	2.82	0.52
11:I2:1050:SER:O	17:O3:290:TYR:CA	2.58	0.52
11:I2:1068:HIS:O	16:N3:429:GLU:CD	2.48	0.52
11:I3:1267:LEU:CD1	26:X1:529:TRP:HA	2.27	0.52
11:I3:1425:TYR:OH	11:I3:1482:ASP:OD2	2.23	0.52
17:O4:113:PRO:O	18:P4:325:ILE:CG2	2.58	0.52
21:S1:681:SER:N	21:S2:1122:VAL:HG12	2.02	0.52
21:S2:443:VAL:HG13	21:S2:445:ASN:CG	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:678:GLU:CB	21:S4:1144:LEU:N	2.57	0.52
21:S3:1036:ILE:HD11	21:S3:1073:ILE:HA	1.92	0.52
21:S4:1045:GLU:HG2	21:S4:1099:SER:OG	2.10	0.52
22:T1:910:MET:O	22:T1:914:GLN:HG3	2.10	0.52
22:T2:854:LEU:HB2	22:T2:891:VAL:HG11	1.92	0.52
22:T3:891:VAL:O	22:T3:891:VAL:CG1	2.58	0.52
22:T4:760:PHE:HD1	22:T4:864:ILE:HD11	1.74	0.52
23:U1:157:ASP:HB3	24:V1:355:ILE:HG21	1.92	0.52
24:V3:520:ARG:HH21	24:V3:542:GLN:HE21	1.58	0.52
24:V4:389:THR:O	24:V4:393:GLY:HA3	2.10	0.52
27:Y1:53:ALA:HB1	27:Y1:84:TRP:CZ2	2.44	0.52
1:A1:870:HIS:HB2	6:D3:279:HIS:O	1.97	0.51
2:A2:1055:ARG:CA	6:D2:762:ARG:HB3	2.39	0.51
1:A3:1168:LEU:HD21	3:A6:639:ASN:O	1.78	0.51
1:A3:1185:THR:CG2	3:A6:639:ASN:O	2.55	0.51
2:A4:648:TYR:CD2	3:A6:503:GLN:O	2.60	0.51
2:A4:676:LEU:HD13	3:A6:95:TYR:HE2	1.73	0.51
2:A4:710:LEU:C	3:A6:462:LEU:HD21	2.20	0.51
2:A4:761:GLN:CD	3:A6:547:GLU:HG3	2.18	0.51
2:A4:854:VAL:HG21	3:A6:171:HIS:CG	2.45	0.51
2:A4:899:THR:OG1	3:A6:180:GLU:HG3	1.97	0.51
3:A5:1024:ASP:CG	11:I5:96:GLU:O	2.49	0.51
3:A5:1031:TYR:H	11:I5:67:LYS:CB	2.22	0.51
6:D1:371:LEU:HD12	6:D1:372:ARG:N	2.26	0.51
6:D4:610:ASN:O	6:D4:614:SER:N	2.43	0.51
6:D4:649:VAL:HG11	6:D4:660:LYS:HA	1.92	0.51
9:G1:263:MET:HE1	16:N2:408:MET:CA	2.39	0.51
11:I1:878:GLN:NE2	17:O1:252:VAL:HG11	2.25	0.51
11:I1:912:VAL:H	15:M1:584:GLN:HE22	1.55	0.51
11:I1:955:LYS:CD	16:N1:401:THR:H	1.84	0.51
11:I1:956:ILE:CA	20:R1:166:LEU:CD2	2.52	0.51
11:I1:1036:PRO:CA	15:M1:623:LEU:O	2.58	0.51
11:I2:890:TYR:HA	17:O3:238:ALA:O	2.09	0.51
11:I2:894:VAL:CA	17:O3:239:GLN:HG2	2.40	0.51
11:I2:934:LEU:CD1	15:M3:603:SER:N	2.35	0.51
11:I2:958:THR:CA	20:R3:168:LEU:CD2	2.77	0.51
11:I2:1186:PRO:CG	17:O4:225:GLN:HE22	2.03	0.51
11:I2:1608:SER:O	12:J1:299:GLY:CA	2.59	0.51
11:I3:1644:ARG:CZ	12:J3:275:PHE:CE2	2.93	0.51
17:O2:110:LEU:HG	18:P2:321:ILE:C	2.30	0.51
21:S1:969:THR:HA	22:T1:879:ASP:OD1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:1070:LYS:NZ	21:S1:1121:GLU:HB3	2.26	0.51
21:S2:988:LEU:O	21:S2:992:ILE:HG22	2.11	0.51
21:S3:1083:TRP:HA	21:S3:1083:TRP:HE3	1.73	0.51
22:T2:773:LYS:HG3	22:T2:774:PRO:HD2	1.92	0.51
22:T2:891:VAL:O	22:T2:891:VAL:CG1	2.58	0.51
22:T3:738:ALA:HA	22:T3:833:ARG:HG2	1.92	0.51
23:U3:278:GLN:HB3	25:W4:187:TYR:OH	2.09	0.51
24:V1:178:THR:HG21	24:V1:485:ALA:HB2	1.91	0.51
28:Z4:500:GLU:HB2	28:Z4:507:PHE:CZ	2.45	0.51
1:A1:831:ALA:C	6:D3:298:ASN:HB2	2.14	0.51
1:A1:1198:GLU:O	2:A2:729:SER:O	2.28	0.51
1:A1:1400:SER:CA	2:A2:885:LEU:HD21	2.40	0.51
2:A2:198:VAL:O	4:B2:353:LEU:CB	2.58	0.51
2:A2:863:GLN:HA	6:D1:603:SER:O	2.10	0.51
2:A2:982:THR:HG23	6:D1:497:PHE:H	0.46	0.51
2:A2:985:ALA:HA	6:D1:498:GLU:HA	1.92	0.51
1:A3:785:ILE:HD11	1:A3:825:ARG:CG	2.38	0.51
1:A3:1201:ARG:O	2:A4:734:LEU:N	2.43	0.51
1:A3:1229:VAL:HG23	3:A6:574:ARG:HB3	1.91	0.51
2:A4:86:ASN:CB	3:A6:393:HIS:CA	2.71	0.51
2:A4:235:TYR:CD1	4:B4:347:LEU:CB	2.76	0.51
2:A4:556:PRO:HB3	3:A6:454:GLN:HB3	1.91	0.51
2:A4:556:PRO:HG3	3:A6:454:GLN:CB	2.40	0.51
2:A4:642:ARG:CB	3:A6:501:VAL:HB	2.34	0.51
2:A4:678:LEU:O	3:A6:431:PHE:CG	2.63	0.51
2:A4:727:ASN:CB	3:A6:548:LEU:HD11	2.08	0.51
2:A4:861:GLN:HE22	6:D3:607:PRO:HA	1.70	0.51
2:A4:878:LEU:HD22	6:D3:607:PRO:CA	2.30	0.51
2:A4:949:PHE:C	4:B6:348:PRO:CD	2.72	0.51
3:A5:189:VAL:HG11	5:C2:742:ASP:H	1.75	0.51
3:A5:1405:LEU:H	28:Z2:918:PHE:N	1.64	0.51
3:A6:517:ILE:HG23	6:D3:683:LYS:HB2	1.92	0.51
3:A6:1366:LEU:HD13	28:Z4:911:GLU:CB	2.41	0.51
6:D3:371:LEU:HD12	6:D3:372:ARG:N	2.25	0.51
6:D5:649:VAL:HG11	6:D5:660:LYS:HA	1.92	0.51
6:D6:371:LEU:HD12	6:D6:372:ARG:N	2.26	0.51
6:D6:798:MET:HB3	22:T3:769:SER:CA	2.38	0.51
11:I1:833:PHE:O	17:O1:241:SER:CB	2.54	0.51
11:I1:1034:ASP:CG	20:R1:177:LEU:CD2	2.71	0.51
11:I1:1052:LEU:O	17:O1:283:ALA:O	2.26	0.51
11:I2:881:ILE:HG22	17:O3:249:ARG:NE	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:888:GLU:HG3	16:N3:393:ILE:C	2.09	0.51
11:I2:931:VAL:HA	15:M3:600:ASN:O	2.09	0.51
11:I2:1029:LEU:H	20:R3:172:ASP:N	2.08	0.51
11:I2:1046:HIS:N	17:O3:280:GLU:O	2.43	0.51
11:I2:1047:CYS:CA	17:O3:287:LEU:HD22	2.40	0.51
11:I3:401:GLN:N	11:I3:401:GLN:OE1	2.44	0.51
11:I5:401:GLN:N	11:I5:401:GLN:OE1	2.44	0.51
15:M4:494:GLU:OE2	15:M4:497:ARG:NH2	2.42	0.51
21:S1:443:VAL:HG13	21:S1:445:ASN:CG	2.30	0.51
21:S1:622:GLY:O	21:S1:623:ARG:O	2.27	0.51
21:S3:1045:GLU:HG2	21:S3:1099:SER:OG	2.10	0.51
21:S4:1036:ILE:HD11	21:S4:1073:ILE:HA	1.92	0.51
22:T2:685:ARG:HH21	22:T2:716:PRO:HG2	1.75	0.51
22:T2:760:PHE:HD1	22:T2:864:ILE:HD11	1.74	0.51
22:T2:770:VAL:HB	22:T2:802:TRP:CZ2	2.45	0.51
23:U1:431:ILE:HD12	23:U1:431:ILE:H	1.74	0.51
24:V2:524:ASN:O	24:V2:528:LEU:HG	2.10	0.51
27:Y1:29:SER:C	27:Y1:31:GLN:H	2.13	0.51
28:Z2:466:TYR:HB3	28:Z2:470:ILE:HB	1.92	0.51
28:Z4:466:TYR:HB3	28:Z4:470:ILE:HB	1.92	0.51
1:A3:1188:ASN:ND2	3:A6:646:ILE:CD1	2.73	0.51
1:A3:1282:PHE:CD1	3:A6:625:LEU:HB2	2.44	0.51
2:A4:95:TYR:HB3	3:A6:364:HIS:C	2.30	0.51
2:A4:602:ILE:HG13	3:A6:506:SER:HG	1.66	0.51
2:A4:670:SER:CB	3:A6:542:LEU:HD22	2.36	0.51
2:A4:682:ARG:CZ	3:A6:105:GLY:HA3	2.26	0.51
2:A4:688:TRP:HE1	3:A6:394:LEU:CB	2.12	0.51
2:A4:713:ILE:HG23	3:A6:403:ARG:NH1	2.26	0.51
2:A4:717:VAL:HG13	3:A6:474:GLY:O	2.11	0.51
2:A4:726:ALA:HA	3:A6:575:LEU:CD2	2.40	0.51
2:A4:794:GLN:C	3:A6:264:GLU:OE1	2.43	0.51
2:A4:857:LYS:HD3	3:A6:129:ASN:N	2.23	0.51
2:A4:1344:ALA:O	2:A4:1345:SER:CB	2.59	0.51
3:A6:1392:ARG:C	28:Z4:913:ILE:CA	2.73	0.51
6:D5:371:LEU:HD12	6:D5:372:ARG:N	2.25	0.51
8:F2:1066:ALA:HB3	8:F2:1067:PRO:HD3	1.91	0.51
9:G1:254:ASN:ND2	17:O2:261:LYS:HE2	2.23	0.51
9:G2:256:GLN:N	17:O4:262:ASP:OD1	2.38	0.51
9:G2:258:LYS:O	17:O4:259:ASP:HB2	2.08	0.51
11:I1:878:GLN:HA	17:O1:249:ARG:O	2.04	0.51
11:I1:990:GLU:CB	17:O1:275:LEU:HD23	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1052:LEU:CA	17:O1:287:LEU:CD1	2.89	0.51
11:I2:790:LEU:HD21	17:O3:251:ILE:HD13	1.91	0.51
11:I2:849:LEU:CD1	17:O3:247:TRP:CZ3	2.94	0.51
11:I2:890:TYR:HB2	17:O3:242:ARG:N	2.19	0.51
11:I2:956:ILE:HA	20:R3:166:LEU:HD22	1.92	0.51
11:I2:1046:HIS:N	15:M3:619:ILE:CD1	2.40	0.51
11:I2:1049:LEU:CD2	17:O3:291:ASP:CG	2.78	0.51
11:I5:1644:ARG:HD3	12:J5:275:PHE:CE1	2.45	0.51
17:O4:107:THR:HA	18:P4:318:PRO:HD3	1.91	0.51
17:O4:111:TYR:C	18:P1:278:ASN:HD22	2.14	0.51
21:S2:1070:LYS:NZ	21:S2:1121:GLU:HB3	2.26	0.51
21:S3:600:GLN:N	21:S4:1155:GLN:O	2.33	0.51
21:S3:969:THR:HA	22:T3:879:ASP:OD1	2.09	0.51
22:T4:818:TYR:CZ	22:T4:861:LEU:HD21	2.45	0.51
23:U2:157:ASP:HB3	24:V2:355:ILE:HG21	1.92	0.51
23:U3:157:ASP:HB3	24:V3:355:ILE:HG21	1.92	0.51
24:V2:389:THR:O	24:V2:393:GLY:HA3	2.10	0.51
28:Z3:58:ASN:HB3	28:Z3:70:TYR:CZ	2.46	0.51
1:A1:862:LEU:CD1	1:A1:904:GLN:HB3	2.41	0.51
1:A1:1399:ARG:CZ	2:A2:888:GLN:CG	2.87	0.51
2:A2:1131:ILE:CG2	3:A5:138:LEU:CG	2.62	0.51
2:A2:1228:TYR:O	2:A2:1232:SER:OG	2.29	0.51
1:A3:1189:LEU:HD12	3:A6:583:LEU:CD2	2.40	0.51
1:A3:1325:MET:HE3	3:A6:125:VAL:CG2	2.40	0.51
2:A4:669:LEU:HD21	3:A6:541:PRO:HD2	1.91	0.51
2:A4:672:ARG:HB3	3:A6:96:PRO:N	2.25	0.51
2:A4:710:LEU:HD23	3:A6:479:VAL:O	1.66	0.51
2:A4:713:ILE:N	3:A6:490:PHE:CD2	2.66	0.51
2:A4:778:PHE:CD2	3:A6:524:ARG:NH1	2.78	0.51
2:A4:798:LYS:CG	3:A6:314:TRP:HE1	2.24	0.51
2:A4:947:LYS:HZ1	3:A6:220:VAL:CA	2.24	0.51
2:A4:984:ALA:N	6:D3:497:PHE:C	2.43	0.51
2:A4:1149:THR:CA	5:C4:730:HIS:C	2.10	0.51
2:A4:1228:TYR:O	2:A4:1232:SER:OG	2.29	0.51
3:A5:1395:LYS:CA	28:Z2:870:ILE:O	2.56	0.51
3:A6:1385:GLU:HB3	28:Z4:907:LEU:CB	2.40	0.51
6:D3:649:VAL:HG11	6:D3:660:LYS:HA	1.93	0.51
8:F1:982:PRO:HG2	11:I1:1388:GLU:HG2	1.91	0.51
8:F1:1832:ASN:N	8:F1:1835:GLU:OE2	2.44	0.51
8:F2:1165:VAL:HG12	8:F2:1166:GLY:H	1.76	0.51
11:I1:842:ASN:OD1	15:M1:587:GLU:OE2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:888:GLU:HA	16:N1:390:GLU:HG3	1.93	0.51
11:I2:1045:PHE:CA	15:M3:619:ILE:HD12	2.37	0.51
11:I2:1068:HIS:CE1	16:N3:431:VAL:HG21	2.46	0.51
11:I5:1644:ARG:CZ	12:J5:275:PHE:CE2	2.93	0.51
17:O3:148:ARG:HH11	18:P3:325:ILE:HG22	1.56	0.51
21:S1:679:ILE:C	21:S2:1071:LEU:CD2	2.55	0.51
21:S1:988:LEU:O	21:S1:992:ILE:HG22	2.10	0.51
21:S3:353:VAL:HG22	21:S3:374:THR:HG22	1.91	0.51
21:S3:1036:ILE:CD1	21:S3:1073:ILE:HA	2.41	0.51
21:S3:1070:LYS:NZ	21:S3:1121:GLU:HB3	2.26	0.51
21:S4:622:GLY:O	21:S4:623:ARG:O	2.27	0.51
24:V3:524:ASN:O	24:V3:528:LEU:HG	2.10	0.51
26:X2:265:ILE:C	26:X2:267:ARG:H	2.12	0.51
27:Y2:29:SER:C	27:Y2:31:GLN:H	2.13	0.51
28:Z1:91:LYS:NZ	28:Z1:142:ALA:O	2.30	0.51
28:Z3:70:TYR:HA	28:Z3:80:THR:O	2.10	0.51
2:A2:1129:PRO:CA	3:A5:139:ASN:O	2.57	0.51
1:A3:1201:ARG:HB2	3:A6:92:ASP:CG	2.19	0.51
1:A3:1251:VAL:H	3:A6:633:MET:CA	2.24	0.51
1:A3:1263:ILE:HG23	3:A6:712:THR:HA	1.92	0.51
2:A4:678:LEU:HD23	3:A6:431:PHE:CB	2.40	0.51
2:A4:765:GLU:CG	3:A6:559:PHE:HZ	2.20	0.51
2:A4:789:LEU:CG	3:A6:145:THR:O	2.58	0.51
2:A4:921:VAL:CG2	3:A6:175:GLU:CD	2.75	0.51
2:A4:970:PHE:CE1	6:D3:192:TYR:HE1	2.28	0.51
2:A4:1055:ARG:CG	6:D4:762:ARG:CA	2.87	0.51
3:A5:999:SER:C	11:I5:62:GLU:CB	2.78	0.51
3:A5:1395:LYS:CB	28:Z2:870:ILE:O	2.59	0.51
3:A6:1375:THR:HG22	28:Z4:826:TYR:HA	1.91	0.51
3:A6:1399:ARG:CD	28:Z4:965:TYR:HA	2.31	0.51
8:F1:1264:ARG:HG2	17:O2:263:GLN:C	2.26	0.51
8:F2:795:GLU:OE1	8:F2:795:GLU:N	2.42	0.51
8:F2:1095:TYR:CD2	17:O4:244:GLU:OE1	2.63	0.51
11:I1:401:GLN:N	11:I1:401:GLN:OE1	2.44	0.51
11:I1:877:ILE:CG2	17:O1:254:ARG:H	2.18	0.51
11:I1:883:ALA:HB3	17:O1:243:LEU:O	1.94	0.51
11:I1:925:LEU:HD12	15:M1:593:ALA:HB1	1.93	0.51
11:I1:940:LEU:HB2	17:O1:259:ASP:CA	2.41	0.51
11:I1:955:LYS:CD	17:O1:249:ARG:NH2	2.73	0.51
11:I1:1065:SER:CB	16:N1:431:VAL:HG23	2.41	0.51
11:I1:1605:LEU:HD13	11:I2:1669:ARG:HD2	0.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:879:VAL:CB	17:O3:251:ILE:HD12	2.37	0.51
11:I2:884:LEU:HD11	15:M3:599:ILE:CG1	2.35	0.51
11:I2:955:LYS:HZ3	16:N3:400:LEU:CD1	2.14	0.51
11:I2:990:GLU:HA	17:O3:275:LEU:HB3	1.92	0.51
11:I2:1033:PRO:CG	20:R3:177:LEU:HD12	2.26	0.51
11:I2:1106:LYS:CA	16:N3:439:ARG:HH12	1.85	0.51
11:I2:1326:GLU:OE1	12:J2:251:TYR:CE2	2.63	0.51
11:I3:1270:LYS:HZ3	26:X1:530:ARG:CG	2.19	0.51
11:I3:1272:TYR:CE2	26:X1:523:LEU:HB2	2.45	0.51
11:I4:401:GLN:N	11:I4:401:GLN:OE1	2.44	0.51
11:I4:1644:ARG:CZ	12:J4:275:PHE:CE2	2.93	0.51
17:O3:148:ARG:NH1	18:P3:325:ILE:C	2.64	0.51
17:O4:81:LEU:O	17:O4:85:LYS:HG2	2.10	0.51
21:S3:988:LEU:O	21:S3:992:ILE:HG22	2.11	0.51
21:S4:946:LEU:HB3	21:S4:981:SER:HB3	1.93	0.51
22:T1:760:PHE:HD1	22:T1:864:ILE:HD11	1.74	0.51
22:T1:770:VAL:HB	22:T1:802:TRP:CZ2	2.45	0.51
23:U1:206:ILE:HG23	24:V1:336:LEU:HB3	1.91	0.51
24:V1:186:PHE:CD1	24:V1:487:LEU:HD11	2.46	0.51
26:X2:60:LYS:C	26:X2:62:GLY:H	2.14	0.51
2:A2:1154:PHE:CD2	3:A5:175:GLU:OE2	2.56	0.51
2:A4:678:LEU:HD23	3:A6:431:PHE:HB2	1.91	0.51
2:A4:691:LYS:HZ2	3:A6:330:LEU:C	2.02	0.51
2:A4:705:ILE:HB	3:A6:482:LYS:HG3	1.91	0.51
2:A4:760:LEU:CD2	3:A6:98:LEU:H	2.19	0.51
2:A4:861:GLN:CA	6:D3:606:LYS:NZ	2.71	0.51
2:A4:973:GLU:HG3	6:D3:192:TYR:CZ	2.46	0.51
3:A6:483:HIS:H	6:D3:675:ARG:HD3	1.76	0.51
3:A6:1410:ALA:CB	26:X4:686:ASP:N	2.74	0.51
8:F1:1266:MET:CG	17:O2:262:ASP:CG	2.60	0.51
9:G1:252:LEU:HD22	17:O2:254:ARG:NH2	2.25	0.51
9:G1:266:ASP:C	16:N2:414:ALA:C	2.68	0.51
11:I1:963:LEU:CD2	20:R1:176:ARG:NH2	2.62	0.51
11:I1:1029:LEU:CD1	16:N1:433:GLU:OE1	2.53	0.51
11:I1:1040:HIS:CB	15:M1:623:LEU:HD13	2.41	0.51
11:I1:1046:HIS:HB2	17:O1:280:GLU:HA	1.91	0.51
11:I1:1103:LEU:CD1	20:R1:175:GLN:CD	2.65	0.51
11:I1:1644:ARG:HD3	12:J1:275:PHE:CE1	2.45	0.51
11:I1:1674:HIS:CD2	11:I2:1635:HIS:HD2	2.29	0.51
11:I2:958:THR:HG1	16:N3:399:HIS:HD2	1.58	0.51
11:I2:1546:TRP:CB	12:J1:300:ILE:HD13	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1609:GLY:HA3	12:J1:295:TYR:CD1	2.46	0.51
11:I5:1326:GLU:OE1	12:J5:251:TYR:CE2	2.63	0.51
15:M3:494:GLU:OE2	15:M3:497:ARG:NH2	2.42	0.51
17:O2:107:THR:HG23	18:P2:321:ILE:HD13	1.92	0.51
21:S1:653:LEU:N	21:S2:1156:ILE:O	2.43	0.51
21:S4:1070:LYS:NZ	21:S4:1121:GLU:HB3	2.26	0.51
22:T1:773:LYS:HG3	22:T1:774:PRO:HD2	1.92	0.51
25:W4:259:ARG:HB2	25:W4:272:SER:HB2	1.93	0.51
26:X3:152:LEU:O	26:X3:156:GLU:HG3	2.11	0.51
27:Y3:117:ALA:HB3	27:Y3:124:LYS:HB3	1.93	0.51
28:Z4:190:ASP:OD2	28:Z4:191:GLY:N	2.44	0.51
1:A1:1399:ARG:CB	2:A2:888:GLN:OE1	2.58	0.51
2:A2:1139:ILE:HB	3:A5:135:PHE:CG	2.46	0.51
2:A2:1160:GLN:HG2	3:A5:176:LEU:C	2.31	0.51
1:A3:790:ASP:OD1	1:A3:790:ASP:N	2.35	0.51
1:A3:1172:HIS:CB	3:A6:586:CYS:O	2.58	0.51
1:A3:1258:VAL:CA	3:A6:623:SER:CB	2.81	0.51
1:A3:1258:VAL:CA	3:A6:623:SER:HB3	2.41	0.51
2:A4:677:ALA:HB1	3:A6:392:LEU:HD12	1.92	0.51
2:A4:710:LEU:HD21	2:A4:802:TYR:HH	1.76	0.51
2:A4:754:HIS:N	3:A6:543:GLY:HA3	2.24	0.51
2:A4:778:PHE:CD1	3:A6:466:ALA:CB	2.92	0.51
2:A4:798:LYS:CB	3:A6:264:GLU:OE2	2.48	0.51
2:A4:856:PHE:HB2	3:A6:167:TRP:NE1	2.21	0.51
2:A4:859:GLN:HB2	3:A6:131:PRO:N	2.15	0.51
2:A4:869:ALA:CB	6:D3:573:LEU:CD2	2.73	0.51
2:A4:896:ALA:HB2	3:A6:164:LEU:CG	2.25	0.51
2:A4:970:PHE:CG	6:D3:498:GLU:HB3	2.45	0.51
2:A4:980:ARG:HB3	2:A4:981:PRO:HD2	1.92	0.51
2:A4:987:LYS:NZ	6:D3:555:ARG:CG	2.74	0.51
2:A4:1151:THR:CG2	5:C4:734:VAL:O	2.57	0.51
3:A6:136:GLU:OE2	6:D3:602:THR:HB	2.10	0.51
3:A6:1364:GLN:O	28:Z4:877:ILE:N	2.31	0.51
3:A6:1394:VAL:HG23	28:Z4:911:GLU:O	2.10	0.51
6:D7:512:LEU:HB2	11:I3:181:GLN:N	2.25	0.51
11:I1:846:ILE:N	15:M1:591:ASP:OD1	2.44	0.51
11:I1:950:LEU:HD23	15:M1:606:LEU:CD2	2.40	0.51
11:I1:952:LEU:HD13	16:N1:400:LEU:HD22	1.80	0.51
11:I1:1048:GLU:HA	20:R1:143:PHE:HE1	1.67	0.51
11:I1:1546:TRP:HB3	12:J2:300:ILE:HD11	1.86	0.51
11:I2:955:LYS:HZ3	17:O3:249:ARG:NH2	2.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:990:GLU:H	15:M3:611:LYS:HB3	1.74	0.51
11:I2:994:ALA:O	17:O3:270:THR:HB	2.10	0.51
11:I2:1029:LEU:HD11	16:N3:433:GLU:OE1	1.93	0.51
11:I2:1049:LEU:C	17:O3:291:ASP:HB2	2.31	0.51
11:I2:1107:SER:CB	16:N3:436:ALA:O	2.58	0.51
11:I3:1034:ASP:OD1	11:I3:1035:GLN:N	2.44	0.51
11:I3:1269:ARG:CA	26:X1:524:SER:O	2.58	0.51
11:I4:816:ASP:OD1	11:I4:817:ASP:N	2.42	0.51
11:I4:1267:LEU:O	26:X3:528:GLU:OE2	2.28	0.51
17:O4:110:LEU:C	18:P1:278:ASN:HD22	2.14	0.51
21:S1:668:ILE:C	21:S2:1146:ALA:CA	2.78	0.51
21:S1:946:LEU:HB3	21:S1:981:SER:HB3	1.93	0.51
21:S4:1120:PRO:CD	21:S4:1155:GLN:HE22	2.19	0.51
23:U4:157:ASP:HB3	24:V4:355:ILE:HG21	1.92	0.51
25:W1:138:PRO:HB2	25:W1:140:ILE:HD11	1.93	0.51
26:X1:152:LEU:O	26:X1:156:GLU:HG3	2.11	0.51
26:X1:265:ILE:C	26:X1:267:ARG:H	2.12	0.51
26:X3:265:ILE:C	26:X3:267:ARG:H	2.12	0.51
27:Y1:117:ALA:HB3	27:Y1:124:LYS:HB3	1.93	0.51
28:Z1:58:ASN:HB3	28:Z1:70:TYR:CZ	2.46	0.51
28:Z2:58:ASN:HB3	28:Z2:70:TYR:CZ	2.46	0.51
2:A2:865:ALA:HA	6:D1:608:ILE:HG23	1.93	0.51
1:A3:1189:LEU:H	3:A6:642:ARG:CA	2.24	0.51
1:A3:1224:PRO:N	2:A4:734:LEU:HD22	2.21	0.51
1:A3:1261:TYR:CG	3:A6:621:GLN:CB	1.87	0.51
1:A3:1389:SER:HB3	3:A6:224:PRO:HB2	1.85	0.51
2:A4:496:THR:CB	3:A6:366:ALA:CB	2.83	0.51
2:A4:537:ALA:N	3:A6:362:PHE:CE2	2.59	0.51
2:A4:724:LEU:CD2	3:A6:496:THR:N	2.65	0.51
2:A4:772:SER:O	3:A6:489:LEU:HD21	2.09	0.51
2:A4:1204:TRP:CZ2	2:A4:1223:GLU:HG3	2.46	0.51
3:A5:232:LEU:CB	5:C2:736:ASN:O	2.58	0.51
3:A5:1151:THR:CB	5:C5:733:LEU:HD12	2.41	0.51
3:A5:1375:THR:HG23	28:Z2:824:PHE:CB	2.39	0.51
3:A6:1370:ALA:CB	28:Z4:874:ASN:CB	2.88	0.51
6:D6:610:ASN:O	6:D6:614:SER:N	2.43	0.51
6:D7:531:LEU:N	11:I3:181:GLN:HG2	1.85	0.51
6:D7:649:VAL:HG11	6:D7:660:LYS:HA	1.92	0.51
8:F1:795:GLU:OE1	8:F1:795:GLU:N	2.42	0.51
11:I1:885:GLU:O	16:N1:397:GLU:OE1	2.28	0.51
11:I1:896:PRO:CA	17:O1:232:LYS:HB3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:920:PHE:CG	17:O1:243:LEU:HD22	2.46	0.51
11:I1:945:LEU:HB3	17:O1:259:ASP:CB	2.40	0.51
11:I1:956:ILE:CB	20:R1:166:LEU:HD22	2.38	0.51
11:I1:962:ILE:HG23	20:R1:166:LEU:O	2.10	0.51
11:I2:401:GLN:N	11:I2:401:GLN:OE1	2.44	0.51
11:I2:900:ARG:N	17:O3:232:LYS:CA	2.74	0.51
11:I2:977:ASN:HB2	20:R3:146:LEU:O	2.10	0.51
11:I2:982:GLN:O	15:M3:612:PRO:O	2.29	0.51
11:I2:988:GLU:O	15:M3:608:LYS:CD	2.59	0.51
11:I2:1029:LEU:HD23	20:R3:170:LEU:N	2.03	0.51
11:I2:1044:GLY:CA	17:O3:275:LEU:CD1	2.76	0.51
11:I4:460:GLN:OE1	11:I4:460:GLN:N	2.39	0.51
11:I4:1034:ASP:OD1	11:I4:1035:GLN:N	2.44	0.51
17:O2:81:LEU:O	17:O2:85:LYS:HG2	2.10	0.51
21:S1:1030:GLN:O	21:S1:1034:LEU:HB2	2.11	0.51
21:S1:1036:ILE:CD1	21:S1:1073:ILE:HA	2.41	0.51
22:T1:891:VAL:O	22:T1:891:VAL:CG1	2.58	0.51
23:U4:354:SER:O	23:U4:358:VAL:HG23	2.11	0.51
24:V1:389:THR:O	24:V1:393:GLY:HA3	2.10	0.51
24:V1:520:ARG:HH21	24:V1:542:GLN:HE21	1.58	0.51
24:V3:153:LYS:HA	25:W3:261:SER:CB	2.40	0.51
25:W4:138:PRO:HB2	25:W4:140:ILE:HD11	1.93	0.51
26:X4:66:PRO:HA	27:Y4:308:TRP:CD1	2.46	0.51
27:Y4:10:ASP:HB3	27:Y4:29:SER:HB2	1.92	0.51
28:Z1:190:ASP:OD2	28:Z1:191:GLY:N	2.44	0.51
28:Z1:466:TYR:HB3	28:Z1:470:ILE:HB	1.92	0.51
28:Z2:190:ASP:OD2	28:Z2:191:GLY:N	2.44	0.51
28:Z3:500:GLU:HB2	28:Z3:507:PHE:CZ	2.45	0.51
2:A2:974:PRO:CD	6:D1:205:LEU:HG	2.28	0.51
2:A2:985:ALA:O	6:D1:500:LYS:HD3	2.11	0.51
2:A2:1125:LEU:HG	3:A5:132:ASP:O	2.04	0.51
2:A2:1148:ARG:NH2	3:A5:169:TYR:CA	2.46	0.51
1:A3:1021:LEU:HD22	6:D3:816:VAL:CG2	2.41	0.51
1:A3:1162:ASN:C	3:A6:649:GLY:N	2.64	0.51
1:A3:1268:ASP:H	3:A6:554:GLN:N	2.08	0.51
2:A4:602:ILE:HD11	3:A6:504:PRO:HB2	1.93	0.51
2:A4:777:LEU:CG	3:A6:526:ILE:CA	2.38	0.51
2:A4:865:ALA:HB1	6:D3:567:LEU:HD21	0.59	0.51
2:A4:908:LEU:O	6:D3:555:ARG:CG	2.58	0.51
2:A4:980:ARG:O	6:D3:496:LEU:CD1	2.55	0.51
3:A5:1374:ALA:HA	28:Z2:823:ALA:HB1	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:1368:GLN:CG	28:Z4:875:LEU:HA	2.37	0.51
6:D4:371:LEU:HD12	6:D4:372:ARG:N	2.26	0.51
9:G2:258:LYS:HG2	17:O4:259:ASP:OD2	2.10	0.51
11:I1:935:GLY:HA2	15:M1:607:SER:N	2.25	0.51
11:I1:954:GLU:CB	16:N1:403:VAL:H	1.82	0.51
11:I1:964:SER:N	20:R1:165:SER:CB	2.73	0.51
11:I1:1021:ILE:HG13	16:N1:410:MET:CA	2.41	0.51
11:I1:1104:LEU:HD22	16:N1:437:VAL:HG23	1.92	0.51
11:I1:1105:TRP:N	16:N1:436:ALA:HB1	2.21	0.51
11:I2:884:LEU:HD21	15:M3:599:ILE:HD11	1.92	0.51
11:I2:1035:GLN:HA	15:M3:626:HIS:HB3	1.90	0.51
11:I2:1110:SER:HA	16:N3:438:LEU:CD1	2.35	0.51
11:I3:814:SER:O	26:X1:496:THR:HG23	2.09	0.51
15:M1:605:THR:O	17:O1:261:LYS:NZ	2.43	0.51
15:M2:494:GLU:OE2	15:M2:497:ARG:NH2	2.42	0.51
21:S1:1036:ILE:HD11	21:S1:1073:ILE:HA	1.92	0.51
22:T3:862:HIS:NE2	22:T3:903:LYS:HB3	2.26	0.51
24:V4:153:LYS:HA	25:W4:261:SER:CB	2.41	0.51
24:V4:524:ASN:O	24:V4:528:LEU:HG	2.10	0.51
25:W2:138:PRO:HB2	25:W2:140:ILE:HD11	1.93	0.51
26:X3:156:GLU:HG2	26:X3:179:LEU:CD2	2.41	0.51
28:Z4:531:LYS:HB3	28:Z4:553:ILE:HG12	1.93	0.51
2:A2:904:GLN:C	6:D1:603:SER:H	2.14	0.51
2:A2:978:ASP:C	6:D1:476:VAL:HB	2.26	0.51
2:A2:1019:ARG:HH22	6:D1:238:ALA:N	2.09	0.51
2:A2:1125:LEU:CD2	3:A5:137:HIS:H	2.24	0.51
1:A3:862:LEU:CD1	1:A3:904:GLN:HB3	2.41	0.51
1:A3:1190:ILE:CG2	3:A6:615:LEU:O	2.59	0.51
1:A3:1191:ASN:ND2	3:A6:619:CYS:SG	2.83	0.51
1:A3:1228:TYR:CB	3:A6:574:ARG:HH21	2.20	0.51
1:A3:1229:VAL:HG23	3:A6:574:ARG:HG2	1.93	0.51
1:A3:1277:TRP:CD1	3:A6:556:PRO:HD3	2.46	0.51
1:A3:1396:GLY:HA3	3:A6:171:HIS:CD2	2.46	0.51
2:A4:554:GLN:HE21	3:A6:370:PRO:HD3	1.73	0.51
2:A4:771:ILE:HD11	3:A6:476:PHE:CG	2.45	0.51
2:A4:824:ASN:ND2	3:A6:158:ALA:CB	2.60	0.51
2:A4:859:GLN:CB	3:A6:134:VAL:CB	2.77	0.51
2:A4:970:PHE:CE1	6:D3:192:TYR:CE1	2.97	0.51
3:A6:1399:ARG:CZ	28:Z4:968:ARG:CB	2.89	0.51
11:I1:937:TYR:CD2	15:M1:602:MET:CE	2.94	0.51
11:I1:945:LEU:CG	17:O1:254:ARG:O	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1034:ASP:CB	15:M1:630:LEU:HD13	2.29	0.51
11:I1:1048:GLU:C	15:M1:622:VAL:CG1	2.79	0.51
11:I2:963:LEU:HD23	20:R3:168:LEU:HD12	1.91	0.51
11:I2:990:GLU:O	17:O3:271:GLU:CB	2.60	0.51
11:I2:1118:LEU:HD11	16:N3:432:TYR:HD2	1.75	0.51
11:I3:1276:GLN:NE2	26:X1:535:ALA:N	2.51	0.51
11:I4:717:GLU:OE1	11:I4:717:GLU:N	2.39	0.51
21:S2:682:ASN:CA	21:S2:684:THR:HA	2.41	0.51
21:S4:1036:ILE:CD1	21:S4:1073:ILE:HA	2.41	0.51
21:S4:1070:LYS:O	21:S4:1074:LEU:HD12	2.11	0.51
22:T1:854:LEU:HB2	22:T1:891:VAL:HG11	1.93	0.51
22:T1:862:HIS:NE2	22:T1:903:LYS:HB3	2.26	0.51
24:V2:153:LYS:HA	25:W2:261:SER:CB	2.41	0.51
24:V2:435:LEU:O	24:V2:439:VAL:HG23	2.11	0.51
24:V3:186:PHE:CD1	24:V3:487:LEU:HD11	2.46	0.51
24:V3:281:ILE:HB	24:V3:301:LEU:HD21	1.93	0.51
25:W3:259:ARG:HB2	25:W3:272:SER:HB2	1.93	0.51
26:X1:66:PRO:HA	27:Y1:308:TRP:CD1	2.46	0.51
26:X3:66:PRO:HA	27:Y3:308:TRP:CD1	2.46	0.51
27:Y4:117:ALA:HB3	27:Y4:124:LYS:HB3	1.93	0.51
28:Z1:500:GLU:HB2	28:Z1:507:PHE:CZ	2.45	0.51
28:Z3:531:LYS:HB3	28:Z3:553:ILE:HG12	1.93	0.51
1:A1:1223:GLU:OE1	2:A2:734:LEU:HD11	2.11	0.50
2:A2:1135:ARG:NH1	3:A5:158:ALA:HB2	1.81	0.50
1:A3:1130:ARG:HH21	3:A6:651:GLN:HA	1.73	0.50
1:A3:1233:GLN:O	3:A6:578:ILE:HG22	2.11	0.50
2:A4:550:VAL:O	3:A6:455:LEU:HG	2.06	0.50
2:A4:611:ILE:CG2	3:A6:508:LEU:HD21	2.26	0.50
2:A4:652:PRO:N	3:A6:542:LEU:CD1	2.67	0.50
2:A4:677:ALA:HB1	3:A6:98:LEU:CD2	2.41	0.50
2:A4:781:ARG:NH1	6:D3:674:TYR:HE1	2.08	0.50
2:A4:857:LYS:NZ	3:A6:129:ASN:CB	2.73	0.50
2:A4:891:GLY:O	3:A6:231:SER:C	2.43	0.50
3:A5:1369:ILE:HG12	28:Z2:831:LEU:CA	2.28	0.50
6:D3:646:LEU:HD22	6:D3:696:ILE:CD1	2.41	0.50
6:D6:649:VAL:HG11	6:D6:660:LYS:HA	1.92	0.50
9:G2:258:LYS:HD3	17:O4:259:ASP:OD2	2.10	0.50
11:I1:838:GLU:N	17:O1:240:GLY:CA	2.68	0.50
11:I1:1108:PRO:HB2	16:N1:442:GLU:CB	2.41	0.50
11:I2:877:ILE:CA	17:O3:254:ARG:HB2	2.31	0.50
11:I2:951:LYS:HD3	16:N3:405:ALA:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:997:SER:HG	16:N3:427:VAL:N	2.09	0.50
11:I2:1028:CYS:C	20:R3:170:LEU:N	2.63	0.50
11:I3:1273:GLU:CB	26:X1:526:CYS:C	2.78	0.50
15:M1:494:GLU:OE2	15:M1:497:ARG:NH2	2.42	0.50
17:O3:162:LYS:HG3	18:P3:315:GLU:CB	2.38	0.50
21:S2:1030:GLN:O	21:S2:1034:LEU:HB2	2.11	0.50
21:S3:1070:LYS:O	21:S3:1074:LEU:HD12	2.11	0.50
21:S4:1052:LEU:HD21	21:S4:1073:ILE:CD1	2.32	0.50
22:T2:862:HIS:NE2	22:T2:903:LYS:HB3	2.26	0.50
22:T4:773:LYS:HG3	22:T4:774:PRO:HD2	1.92	0.50
24:V2:262:LYS:NZ	24:V2:398:TYR:O	2.36	0.50
24:V4:281:ILE:HB	24:V4:301:LEU:HD21	1.93	0.50
25:W1:57:TRP:HD1	25:W1:102:VAL:O	1.94	0.50
25:W2:62:ALA:HB2	25:W2:107:TRP:CE2	2.46	0.50
25:W3:117:LEU:HB2	25:W3:153:TRP:HE1	1.75	0.50
25:W4:117:LEU:HB2	25:W4:153:TRP:HE1	1.75	0.50
26:X2:156:GLU:HG2	26:X2:179:LEU:CD2	2.41	0.50
26:X4:156:GLU:HG2	26:X4:179:LEU:CD2	2.41	0.50
28:Z3:190:ASP:OD2	28:Z3:191:GLY:N	2.44	0.50
1:A1:1242:THR:HG21	1:A1:1248:ILE:HD11	1.93	0.50
1:A3:1201:ARG:CB	2:A4:735:ALA:CB	2.89	0.50
1:A3:1221:ILE:HG12	3:A6:498:ARG:O	2.06	0.50
1:A3:1225:PRO:HD2	2:A4:727:ASN:HB2	1.82	0.50
1:A3:1233:GLN:HG2	3:A6:578:ILE:CG1	2.40	0.50
1:A3:1311:ARG:CG	3:A6:712:THR:HG22	2.34	0.50
1:A3:1389:SER:O	3:A6:228:GLY:N	2.44	0.50
2:A4:538:ALA:HB1	3:A6:359:LEU:C	2.31	0.50
2:A4:608:VAL:HG13	3:A6:100:SER:CA	2.42	0.50
2:A4:615:LEU:HB3	3:A6:509:LYS:CA	2.42	0.50
2:A4:669:LEU:CA	3:A6:542:LEU:CD1	2.89	0.50
2:A4:673:HIS:C	3:A6:97:ASP:CG	2.70	0.50
2:A4:777:LEU:N	6:D3:678:GLY:HA3	2.23	0.50
2:A4:800:LEU:HD22	3:A6:319:TYR:OH	2.12	0.50
2:A4:858:ALA:HB3	3:A6:174:PRO:O	2.10	0.50
3:A5:1026:PRO:N	11:I5:66:LEU:CD2	2.75	0.50
3:A6:1376:LEU:C	28:Z4:830:LEU:CB	2.80	0.50
4:B5:344:ALA:CB	5:C2:740:ARG:HH22	2.02	0.50
6:D5:606:LYS:N	6:D5:607:PRO:CD	2.74	0.50
6:D5:646:LEU:HD22	6:D5:696:ILE:CD1	2.42	0.50
8:F1:1265:GLN:CD	17:O2:258:GLU:O	2.48	0.50
8:F2:1000:LEU:HD12	8:F2:1001:ILE:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:1392:LEU:N	8:F2:1393:PRO:HD2	2.27	0.50
9:G1:258:LYS:HE3	16:N2:408:MET:HE2	1.92	0.50
11:I1:896:PRO:HA	17:O1:232:LYS:CB	2.40	0.50
11:I1:956:ILE:CG1	15:M1:599:ILE:CD1	2.89	0.50
11:I1:978:LYS:HG3	20:R1:153:GLN:HB3	1.92	0.50
11:I1:1044:GLY:C	17:O1:280:GLU:OE2	2.49	0.50
11:I1:1665:LEU:HA	11:I2:1668:HIS:N	2.26	0.50
11:I2:876:ALA:HB3	17:O3:254:ARG:HD2	1.93	0.50
11:I2:952:LEU:CD1	16:N3:400:LEU:HD21	2.40	0.50
11:I2:955:LYS:CB	16:N3:400:LEU:HD23	2.32	0.50
11:I2:1065:SER:HA	17:O3:274:GLY:C	2.31	0.50
11:I2:1070:LEU:HD12	16:N3:430:ARG:N	2.26	0.50
11:I4:819:MET:CE	27:Y3:178:PHE:HE1	2.06	0.50
21:S2:546:SER:O	21:S2:550:ASP:CB	2.59	0.50
22:T1:685:ARG:HH21	22:T1:716:PRO:HG2	1.75	0.50
22:T3:770:VAL:HB	22:T3:802:TRP:CZ2	2.45	0.50
22:T3:773:LYS:HG3	22:T3:774:PRO:HD2	1.92	0.50
23:U1:354:SER:O	23:U1:358:VAL:HG23	2.11	0.50
24:V1:153:LYS:HA	25:W1:261:SER:CB	2.41	0.50
25:W3:138:PRO:HB2	25:W3:140:ILE:HD11	1.93	0.50
26:X1:218:GLU:HA	26:X1:220:ASP:N	2.26	0.50
26:X2:66:PRO:HA	27:Y2:308:TRP:CD1	2.46	0.50
26:X3:60:LYS:C	26:X3:62:GLY:H	2.14	0.50
26:X4:152:LEU:O	26:X4:156:GLU:HG3	2.11	0.50
2:A2:866:SER:HB2	6:D1:599:ASP:HA	1.92	0.50
2:A2:876:ARG:NH1	6:D1:563:GLU:HB2	2.27	0.50
2:A2:970:PHE:HA	6:D1:192:TYR:CE1	1.67	0.50
2:A2:1135:ARG:NH1	3:A5:147:LEU:HD22	2.25	0.50
2:A2:1344:ALA:O	2:A2:1345:SER:CB	2.58	0.50
1:A3:1328:ARG:CD	3:A6:127:HIS:O	2.57	0.50
2:A4:672:ARG:CA	3:A6:508:LEU:CD1	2.69	0.50
2:A4:688:TRP:CZ3	3:A6:395:MET:HE2	2.45	0.50
2:A4:692:VAL:HG12	3:A6:467:LEU:CD2	2.19	0.50
2:A4:823:VAL:HG22	3:A6:566:GLY:HA2	1.93	0.50
2:A4:872:ALA:HB1	6:D3:565:MET:HB3	1.93	0.50
2:A4:873:PRO:CD	6:D3:569:CYS:SG	2.97	0.50
2:A4:1019:ARG:NH2	6:D3:238:ALA:HB3	2.26	0.50
3:A5:777:LEU:HD13	3:A5:822:ILE:HD11	1.90	0.50
3:A5:1370:ALA:N	28:Z2:825:TYR:C	2.64	0.50
3:A5:1372:THR:N	28:Z2:828:LEU:H	2.10	0.50
3:A6:564:ASN:ND2	6:D3:679:ILE:CD1	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D2:646:LEU:HD22	6:D2:696:ILE:CD1	2.42	0.50
6:D2:649:VAL:HG11	6:D2:660:LYS:HA	1.92	0.50
6:D7:606:LYS:N	6:D7:607:PRO:CD	2.74	0.50
8:F1:1264:ARG:O	17:O2:265:ASN:CA	2.57	0.50
9:G1:258:LYS:O	17:O2:256:TYR:HB3	2.03	0.50
11:I1:301:GLN:OE1	11:I1:301:GLN:N	2.42	0.50
11:I1:873:ILE:HG22	17:O1:255:GLY:H	1.71	0.50
11:I1:931:VAL:HG23	15:M1:604:ASN:N	2.18	0.50
11:I1:988:GLU:HA	15:M1:611:LYS:H	1.77	0.50
11:I1:1605:LEU:HD13	11:I2:1669:ARG:NE	2.21	0.50
11:I1:1669:ARG:CZ	11:I2:1610:VAL:HG12	2.38	0.50
11:I2:898:VAL:CB	17:O3:236:ASP:CA	2.65	0.50
11:I2:899:LEU:HD12	17:O3:230:ILE:O	2.08	0.50
11:I2:925:LEU:HD21	20:R3:163:LEU:HB3	1.93	0.50
11:I2:952:LEU:O	15:M3:599:ILE:HG23	2.11	0.50
11:I2:1033:PRO:CB	20:R3:177:LEU:CD1	2.70	0.50
11:I5:1034:ASP:OD1	11:I5:1035:GLN:N	2.44	0.50
21:S1:682:ASN:CA	21:S1:684:THR:HA	2.41	0.50
21:S1:939:HIS:O	21:S1:939:HIS:CG	2.64	0.50
21:S2:1070:LYS:HZ3	21:S2:1121:GLU:HB3	1.76	0.50
21:S3:622:GLY:O	21:S3:623:ARG:O	2.27	0.50
21:S3:946:LEU:HB3	21:S3:981:SER:HB3	1.93	0.50
22:T4:685:ARG:HH21	22:T4:716:PRO:HG2	1.75	0.50
22:T4:885:ARG:NH1	22:T4:885:ARG:CG	2.73	0.50
24:V2:186:PHE:CD1	24:V2:487:LEU:HD11	2.46	0.50
26:X1:60:LYS:C	26:X1:62:GLY:H	2.14	0.50
26:X3:218:GLU:HA	26:X3:220:ASP:N	2.27	0.50
28:Z2:531:LYS:HB3	28:Z2:553:ILE:HG12	1.93	0.50
2:A2:879:LEU:CG	6:D1:567:LEU:CD1	2.59	0.50
1:A3:1164:TYR:C	3:A6:594:LEU:HD21	2.20	0.50
1:A3:1271:ILE:HG12	3:A6:553:ASP:CA	2.42	0.50
1:A3:1331:GLU:OE1	2:A4:857:LYS:HE2	2.12	0.50
2:A4:652:PRO:CA	3:A6:542:LEU:HD12	2.25	0.50
2:A4:684:VAL:HG21	3:A6:405:PHE:CZ	2.39	0.50
2:A4:692:VAL:HG23	3:A6:380:ALA:HB2	1.92	0.50
2:A4:711:VAL:HG12	3:A6:516:TRP:NE1	1.26	0.50
2:A4:795:GLN:HB3	3:A6:249:SER:OG	2.11	0.50
2:A4:868:GLN:OE1	6:D3:570:VAL:HB	2.12	0.50
2:A4:871:ASN:N	6:D3:570:VAL:HG23	2.24	0.50
2:A4:904:GLN:HG2	6:D3:603:SER:HB3	1.93	0.50
2:A4:975:GLU:CB	6:D3:499:LEU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:220:VAL:CG1	5:C2:739:MET:CA	2.89	0.50
3:A5:1053:ARG:NH1	11:I5:99:ARG:HG3	2.26	0.50
6:D1:639:LEU:HD22	6:D1:689:PHE:CG	2.47	0.50
6:D1:649:VAL:HG11	6:D1:660:LYS:HA	1.92	0.50
6:D3:610:ASN:O	6:D3:614:SER:N	2.43	0.50
6:D7:639:LEU:HD22	6:D7:689:PHE:CG	2.47	0.50
8:F2:1832:ASN:N	8:F2:1835:GLU:OE2	2.44	0.50
9:G1:251:TYR:O	15:M2:602:MET:CE	2.59	0.50
11:I1:916:ALA:HB2	15:M1:586:ASP:HB2	1.94	0.50
11:I1:1069:SER:O	16:N1:429:GLU:HG2	2.00	0.50
11:I1:1070:LEU:N	16:N1:429:GLU:HB2	1.93	0.50
11:I1:1607:GLN:HB3	11:I2:1736:LEU:HD12	1.93	0.50
11:I1:1610:VAL:CG1	11:I2:1673:VAL:HG21	2.27	0.50
11:I2:947:LEU:HD21	16:N3:408:MET:HA	1.91	0.50
11:I2:990:GLU:C	17:O3:272:SER:N	2.59	0.50
11:I2:1037:THR:CB	20:R3:173:LEU:CD2	2.75	0.50
21:S1:1045:GLU:HG2	21:S1:1099:SER:OG	2.10	0.50
21:S2:176:MET:CE	21:S2:232:LEU:HD12	2.42	0.50
21:S2:1036:ILE:CD1	21:S2:1073:ILE:HA	2.41	0.50
21:S3:546:SER:O	21:S3:550:ASP:CB	2.59	0.50
21:S3:684:THR:CB	21:S4:1146:ALA:CA	2.64	0.50
21:S3:939:HIS:O	21:S3:939:HIS:CG	2.64	0.50
21:S4:546:SER:O	21:S4:550:ASP:CB	2.59	0.50
22:T3:685:ARG:HH21	22:T3:716:PRO:HG2	1.75	0.50
23:U2:50:ALA:HB1	23:U2:69:GLU:HG3	1.93	0.50
24:V2:374:LYS:O	24:V2:377:GLU:HB2	2.12	0.50
24:V3:435:LEU:O	24:V3:439:VAL:HG23	2.11	0.50
24:V4:186:PHE:CD1	24:V4:487:LEU:HD11	2.46	0.50
24:V4:435:LEU:O	24:V4:439:VAL:HG23	2.11	0.50
25:W2:57:TRP:HD1	25:W2:102:VAL:O	1.95	0.50
26:X3:306:TRP:O	26:X3:310:VAL:HG23	2.12	0.50
27:Y2:218:ILE:HG22	27:Y2:233:THR:HG22	1.94	0.50
28:Z4:288:VAL:HG13	28:Z4:336:LEU:HD22	1.93	0.50
2:A2:781:ARG:HG3	6:D1:673:ARG:HA	1.90	0.50
2:A2:1157:TYR:CZ	3:A5:167:TRP:CE2	3.00	0.50
1:A3:1056:PHE:HZ	6:D3:807:THR:O	1.78	0.50
1:A3:1091:VAL:HG11	6:D3:801:TYR:CZ	2.46	0.50
2:A4:612:ALA:HB2	3:A6:101:TYR:HA	1.94	0.50
2:A4:619:CYS:HA	3:A6:498:ARG:HE	1.76	0.50
2:A4:691:LYS:CE	3:A6:316:ARG:HD2	2.38	0.50
2:A4:692:VAL:O	3:A6:466:ALA:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:733:GLY:HA3	3:A6:543:GLY:HA2	1.93	0.50
2:A4:794:GLN:CG	3:A6:144:PHE:CE1	2.92	0.50
2:A4:908:LEU:HD11	6:D3:602:THR:OG1	1.44	0.50
2:A4:978:ASP:O	6:D3:475:ALA:C	2.50	0.50
3:A5:1316:VAL:HG21	28:Z2:833:ASP:CB	2.40	0.50
3:A5:1380:ALA:HB2	28:Z2:817:VAL:H	1.77	0.50
3:A6:484:PRO:HB2	6:D3:672:GLU:CD	2.30	0.50
3:A6:484:PRO:HD2	6:D3:672:GLU:CA	2.41	0.50
3:A6:486:GLN:HA	6:D3:674:TYR:CB	2.37	0.50
6:D1:646:LEU:HD22	6:D1:696:ILE:CD1	2.42	0.50
6:D2:606:LYS:N	6:D2:607:PRO:CD	2.74	0.50
6:D4:606:LYS:N	6:D4:607:PRO:CD	2.74	0.50
6:D6:646:LEU:HD22	6:D6:696:ILE:CD1	2.42	0.50
11:I1:816:ASP:OD1	11:I1:817:ASP:N	2.42	0.50
11:I1:947:LEU:CB	17:O1:256:TYR:CZ	2.73	0.50
11:I1:1036:PRO:C	15:M1:624:ASN:N	2.54	0.50
11:I1:1048:GLU:OE2	20:R1:146:LEU:HD12	2.11	0.50
11:I1:1739:GLU:HB2	11:I2:1540:LYS:CE	2.32	0.50
11:I2:849:LEU:HD12	17:O3:247:TRP:CE3	2.44	0.50
11:I2:850:ILE:HG21	15:M3:598:GLU:CG	2.33	0.50
11:I2:896:PRO:CD	17:O3:233:THR:CA	2.81	0.50
11:I2:924:ILE:HD13	15:M3:595:MET:CB	2.13	0.50
11:I2:951:LYS:CD	16:N3:404:GLU:CB	2.53	0.50
11:I2:976:ARG:HH21	20:R3:143:PHE:CB	2.24	0.50
11:I2:983:LEU:CG	15:M3:617:THR:OG1	2.50	0.50
21:S2:1045:GLU:HG2	21:S2:1099:SER:OG	2.10	0.50
21:S2:1070:LYS:O	21:S2:1074:LEU:HD12	2.11	0.50
21:S4:176:MET:CE	21:S4:232:LEU:HD12	2.41	0.50
21:S4:682:ASN:CA	21:S4:684:THR:HA	2.41	0.50
23:U4:50:ALA:HB1	23:U4:69:GLU:HG3	1.93	0.50
24:V1:262:LYS:NZ	24:V1:398:TYR:O	2.36	0.50
24:V1:435:LEU:O	24:V1:439:VAL:HG23	2.11	0.50
25:W1:62:ALA:HB2	25:W1:107:TRP:CE2	2.46	0.50
26:X1:107:TYR:CZ	26:X1:111:LEU:HD11	2.46	0.50
26:X4:218:GLU:HA	26:X4:220:ASP:N	2.26	0.50
27:Y2:117:ALA:HB3	27:Y2:124:LYS:HB3	1.92	0.50
28:Z2:288:VAL:HG13	28:Z2:336:LEU:HD22	1.94	0.50
28:Z3:258:ASP:OD1	28:Z3:260:VAL:HG22	2.11	0.50
1:A1:870:HIS:CE1	6:D3:279:HIS:HE1	2.29	0.50
2:A2:873:PRO:HA	6:D1:563:GLU:CB	2.41	0.50
2:A2:965:LYS:HE3	6:D1:197:VAL:N	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:976:LEU:O	6:D1:492:VAL:O	2.25	0.50
2:A2:1055:ARG:N	6:D2:762:ARG:CB	2.47	0.50
2:A2:1137:ALA:CB	3:A5:564:ASN:C	2.79	0.50
2:A2:1157:TYR:CD2	3:A5:176:LEU:CD2	2.81	0.50
1:A3:1056:PHE:CE2	6:D3:806:ASP:C	2.80	0.50
1:A3:1079:ILE:O	6:D3:798:MET:CE	2.55	0.50
1:A3:1230:TYR:C	3:A6:575:LEU:O	2.49	0.50
1:A3:1235:ILE:HG23	3:A6:637:THR:HG21	1.94	0.50
1:A3:1237:LEU:CB	3:A6:597:GLU:HG2	2.38	0.50
1:A3:1277:TRP:N	1:A3:1278:PRO:CD	2.75	0.50
1:A3:1333:ARG:HA	6:D3:637:LYS:NZ	2.27	0.50
1:A3:1399:ARG:HD3	2:A4:884:ARG:O	2.12	0.50
2:A4:75:LEU:CD2	3:A6:321:ASP:OD1	2.59	0.50
2:A4:79:ALA:CB	3:A6:321:ASP:HA	2.39	0.50
2:A4:618:ALA:N	3:A6:511:PHE:CE1	2.79	0.50
2:A4:621:GLN:OE1	3:A6:108:SER:C	2.39	0.50
2:A4:705:ILE:HG23	3:A6:480:VAL:HB	1.93	0.50
2:A4:751:GLN:OE1	3:A6:539:LYS:HG3	2.11	0.50
2:A4:897:ASN:C	3:A6:176:LEU:C	2.70	0.50
2:A4:979:GLY:HA3	6:D3:471:GLN:O	2.12	0.50
3:A5:996:ASN:CG	11:I5:55:ASP:O	2.50	0.50
3:A5:1380:ALA:HB2	28:Z2:817:VAL:CB	2.42	0.50
3:A6:444:ARG:CA	6:D3:737:PHE:CE2	2.93	0.50
3:A6:565:THR:CG2	6:D3:633:LYS:O	2.59	0.50
3:A6:1370:ALA:HB3	28:Z4:874:ASN:CB	2.42	0.50
6:D1:610:ASN:O	6:D1:614:SER:N	2.43	0.50
6:D2:371:LEU:HD12	6:D2:372:ARG:N	2.26	0.50
6:D3:606:LYS:N	6:D3:607:PRO:CD	2.75	0.50
6:D4:646:LEU:HD22	6:D4:696:ILE:CD1	2.42	0.50
6:D5:639:LEU:HD22	6:D5:689:PHE:CG	2.47	0.50
11:I1:873:ILE:HG22	17:O1:254:ARG:CB	2.41	0.50
11:I1:880:MET:HE1	15:M1:598:GLU:OE1	2.12	0.50
11:I1:888:GLU:O	17:O1:239:GLN:NE2	2.44	0.50
11:I1:924:ILE:CG1	15:M1:596:ILE:CG1	2.46	0.50
11:I1:947:LEU:HA	16:N1:407:ALA:CA	2.28	0.50
11:I1:965:ALA:HB3	20:R1:164:PRO:HA	1.94	0.50
11:I1:977:ASN:CG	15:M1:621:ARG:C	2.69	0.50
11:I2:874:LEU:CB	17:O3:255:GLY:CA	2.72	0.50
17:O3:151:LEU:HD21	18:P3:325:ILE:HD12	1.78	0.50
17:O4:109:PRO:CB	18:P4:318:PRO:HB2	2.24	0.50
18:P1:276:SER:HB2	18:P4:322:LYS:HE3	0.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:546:SER:O	21:S1:550:ASP:CB	2.59	0.50
21:S1:1070:LYS:O	21:S1:1074:LEU:HD12	2.11	0.50
21:S4:1030:GLN:O	21:S4:1034:LEU:HB2	2.11	0.50
22:T4:862:HIS:NE2	22:T4:903:LYS:HB3	2.26	0.50
25:W2:214:PRO:HG2	25:W2:264:LEU:HA	1.92	0.50
25:W2:259:ARG:HB2	25:W2:272:SER:HB2	1.93	0.50
26:X1:156:GLU:HG2	26:X1:179:LEU:CD2	2.41	0.50
26:X2:152:LEU:O	26:X2:156:GLU:HG3	2.11	0.50
27:Y1:218:ILE:HG22	27:Y1:233:THR:HG22	1.94	0.50
28:Z1:531:LYS:HB3	28:Z1:553:ILE:HG12	1.93	0.50
1:A1:1222:ALA:O	2:A2:731:ILE:CD1	2.58	0.50
2:A2:1204:TRP:CZ2	2:A2:1223:GLU:HG3	2.46	0.50
1:A3:1090:SER:CB	6:D3:800:PRO:HA	2.40	0.50
1:A3:1162:ASN:OD1	3:A6:732:GLN:CD	2.49	0.50
2:A4:689:LYS:NZ	3:A6:336:ILE:HD13	2.25	0.50
2:A4:734:LEU:HD11	3:A6:545:GLY:O	2.01	0.50
2:A4:798:LYS:HB2	3:A6:264:GLU:CD	2.28	0.50
2:A4:820:LYS:H	3:A6:148:GLY:N	2.10	0.50
2:A4:870:HIS:ND1	6:D3:566:PHE:HA	2.27	0.50
2:A4:893:LEU:HB3	3:A6:177:ILE:N	2.26	0.50
2:A4:897:ASN:ND2	3:A6:165:PHE:HB3	1.95	0.50
2:A4:951:GLU:CA	4:B6:346:LEU:CA	2.89	0.50
2:A4:955:CYS:N	4:B6:345:LYS:HB2	2.23	0.50
3:A5:1392:ARG:HH11	28:Z2:867:LYS:H	1.28	0.50
3:A6:446:LEU:CD1	6:D3:721:PRO:C	2.77	0.50
8:F1:1265:GLN:OE1	17:O2:259:ASP:C	2.50	0.50
11:I1:873:ILE:CG2	17:O1:254:ARG:HB3	2.41	0.50
11:I1:877:ILE:HG21	17:O1:254:ARG:N	2.21	0.50
11:I1:931:VAL:HG13	15:M1:604:ASN:CB	2.41	0.50
11:I1:965:ALA:C	20:R1:153:GLN:NE2	2.65	0.50
11:I1:1044:GLY:HA2	15:M1:616:LEU:HD13	1.94	0.50
11:I1:1067:PHE:CB	16:N1:432:TYR:H	2.25	0.50
11:I1:1546:TRP:O	12:J2:300:ILE:CG2	2.59	0.50
11:I2:841:PHE:CE2	15:M3:588:MET:HE1	2.47	0.50
11:I2:982:GLN:H	15:M3:621:ARG:HH12	1.60	0.50
11:I2:1052:LEU:N	17:O3:286:ILE:N	2.59	0.50
15:M2:605:THR:O	17:O2:261:LYS:NZ	2.43	0.50
17:O4:142:PHE:HA	17:O4:145:ILE:HG22	1.94	0.50
21:S2:882:GLN:C	21:S2:884:ARG:H	2.15	0.50
22:T3:854:LEU:HB2	22:T3:891:VAL:HG11	1.93	0.50
22:T4:770:VAL:HB	22:T4:802:TRP:CZ2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:233:THR:HG22	23:U1:234:GLN:O	2.12	0.50
23:U3:354:SER:O	23:U3:358:VAL:HG23	2.11	0.50
25:W3:57:TRP:HD1	25:W3:102:VAL:O	1.94	0.50
27:Y3:218:ILE:HG22	27:Y3:233:THR:HG22	1.94	0.50
28:Z4:58:ASN:HB3	28:Z4:70:TYR:CZ	2.46	0.50
1:A1:831:ALA:C	6:D3:298:ASN:HD22	2.13	0.50
2:A2:971:ALA:C	6:D1:203:PRO:CG	2.73	0.50
1:A3:1183:LEU:HA	3:A6:639:ASN:N	2.25	0.50
2:A4:648:TYR:CD2	3:A6:503:GLN:CG	2.95	0.50
2:A4:687:LEU:HD23	3:A6:397:LEU:CA	2.41	0.50
2:A4:712:THR:HG21	3:A6:436:PRO:O	2.12	0.50
2:A4:776:MET:HB2	3:A6:519:LEU:CD1	2.42	0.50
2:A4:853:VAL:CB	3:A6:170:THR:HA	2.39	0.50
2:A4:858:ALA:O	6:D3:606:LYS:HE3	2.12	0.50
2:A4:1305:ALA:HB3	2:A4:1306:PRO:HD2	1.94	0.50
3:A5:996:ASN:O	11:I5:59:LEU:N	2.42	0.50
3:A6:1374:ALA:CB	28:Z4:867:LYS:O	2.60	0.50
6:D4:639:LEU:HD22	6:D4:689:PHE:CG	2.47	0.50
6:D7:537:ARG:HH22	11:I3:173:ARG:NH2	2.09	0.50
8:F1:1093:LEU:CD1	17:O2:240:GLY:O	2.45	0.50
11:I1:846:ILE:CG1	15:M1:594:LYS:HB3	2.41	0.50
11:I1:1114:VAL:CB	16:N1:435:ALA:HB3	2.41	0.50
11:I2:977:ASN:N	20:R3:147:LEU:C	2.62	0.50
11:I5:301:GLN:OE1	11:I5:301:GLN:N	2.42	0.50
21:S1:1126:LEU:O	21:S1:1129:ASP:HB2	2.12	0.50
21:S2:939:HIS:O	21:S2:939:HIS:CG	2.64	0.50
21:S2:946:LEU:HB3	21:S2:981:SER:HB3	1.93	0.50
23:U2:159:ASP:OD2	24:V2:319:LEU:N	2.29	0.50
24:V4:374:LYS:O	24:V4:377:GLU:HB2	2.11	0.50
25:W1:259:ARG:HB2	25:W1:272:SER:HB2	1.93	0.50
26:X2:107:TYR:CZ	26:X2:111:LEU:HD11	2.46	0.50
26:X3:107:TYR:CZ	26:X3:111:LEU:HD11	2.46	0.50
26:X4:107:TYR:CZ	26:X4:111:LEU:HD11	2.46	0.50
28:Z1:258:ASP:OD1	28:Z1:260:VAL:HG22	2.11	0.50
28:Z2:125:ASP:OD1	28:Z2:127:SER:OG	2.17	0.50
28:Z3:466:TYR:HB3	28:Z3:470:ILE:HB	1.92	0.50
1:A1:1277:TRP:N	1:A1:1278:PRO:CD	2.75	0.50
2:A2:1149:THR:CA	5:C2:730:HIS:C	2.10	0.50
2:A2:1160:GLN:OE1	3:A5:165:PHE:CA	2.41	0.50
1:A3:1086:LYS:HE2	6:D3:798:MET:O	2.12	0.50
1:A3:1099:GLN:NE2	11:I2:1421:ARG:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1130:ARG:HA	3:A6:653:ARG:CD	2.41	0.50
1:A3:1267:GLN:CD	3:A6:551:GLN:C	2.58	0.50
1:A3:1366:LEU:HD11	3:A6:226:PRO:O	2.10	0.50
2:A4:552:PHE:O	3:A6:434:PHE:O	2.29	0.50
2:A4:766:SER:OG	3:A6:470:ARG:O	2.30	0.50
2:A4:828:ALA:HB2	3:A6:138:LEU:HB2	1.93	0.50
2:A4:855:THR:HG22	3:A6:169:TYR:HA	1.93	0.50
2:A4:874:VAL:HB	6:D3:571:SER:N	2.12	0.50
3:A5:1395:LYS:CB	28:Z2:870:ILE:CA	2.83	0.50
3:A6:484:PRO:HB2	6:D3:676:ALA:HB2	1.93	0.50
6:D5:610:ASN:O	6:D5:614:SER:N	2.43	0.50
6:D7:371:LEU:HD12	6:D7:372:ARG:N	2.25	0.50
11:I1:834:SER:N	17:O1:237:PRO:C	2.51	0.50
11:I1:945:LEU:HG	17:O1:257:ALA:CA	2.41	0.50
11:I1:1052:LEU:CD2	16:N1:434:LEU:CD1	2.86	0.50
11:I1:1662:ARG:HD3	11:I2:1603:ARG:CZ	2.18	0.50
11:I2:950:LEU:HD22	16:N3:410:MET:HE3	1.90	0.50
11:I2:1017:VAL:HG23	16:N3:411:GLN:HA	0.50	0.50
11:I2:1045:PHE:CB	15:M3:619:ILE:HD12	2.42	0.50
21:S1:429:SER:HB2	21:S1:436:SER:OG	2.12	0.50
21:S2:1126:LEU:O	21:S2:1129:ASP:HB2	2.12	0.50
21:S3:176:MET:CE	21:S3:232:LEU:HD12	2.42	0.50
23:U2:233:THR:HG22	23:U2:234:GLN:O	2.12	0.50
26:X2:218:GLU:HA	26:X2:220:ASP:N	2.27	0.50
26:X3:158:PHE:O	26:X3:162:VAL:HG23	2.12	0.50
27:Y2:67:GLU:OE1	27:Y2:119:ALA:HB1	2.12	0.50
28:Z1:70:TYR:HA	28:Z1:80:THR:O	2.10	0.50
28:Z3:288:VAL:HG13	28:Z3:336:LEU:HD22	1.94	0.50
1:A1:873:PRO:CG	6:D3:218:LYS:NZ	2.60	0.49
1:A1:875:LEU:HD12	6:D3:276:GLY:CA	2.42	0.49
1:A3:1091:VAL:HG22	6:D3:808:ASN:ND2	2.27	0.49
1:A3:1204:TRP:HA	2:A4:672:ARG:NH2	2.27	0.49
2:A4:542:LEU:C	3:A6:364:HIS:N	2.61	0.49
2:A4:645:PHE:HD1	3:A6:500:LYS:C	2.14	0.49
2:A4:691:LYS:HD3	3:A6:330:LEU:CG	2.42	0.49
2:A4:717:VAL:N	3:A6:512:GLU:OE1	2.42	0.49
2:A4:819:VAL:HG11	3:A6:149:LEU:HG	0.74	0.49
2:A4:864:ARG:N	3:A6:132:ASP:HB3	2.26	0.49
3:A5:1091:VAL:HG11	11:I5:39:THR:OG1	2.12	0.49
3:A6:520:GLU:HG3	6:D3:681:ALA:N	2.26	0.49
6:D6:606:LYS:N	6:D6:607:PRO:CD	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1000:LEU:HD12	8:F1:1001:ILE:HG23	1.93	0.49
11:I1:846:ILE:HG12	15:M1:591:ASP:CB	2.40	0.49
11:I1:1071:LEU:CA	16:N1:429:GLU:HG3	2.42	0.49
11:I2:978:LYS:CG	20:R3:151:LYS:HD3	2.42	0.49
11:I2:983:LEU:HB3	15:M3:614:ASP:OD2	2.13	0.49
11:I2:1045:PHE:CB	15:M3:619:ILE:HD13	2.41	0.49
11:I2:1110:SER:CB	16:N3:435:ALA:C	2.79	0.49
11:I4:815:ILE:N	26:X3:497:ARG:HB2	2.17	0.49
21:S1:597:ILE:CA	21:S2:1120:PRO:HD2	2.35	0.49
21:S1:668:ILE:O	21:S2:1146:ALA:CB	2.60	0.49
21:S3:1126:LEU:O	21:S3:1129:ASP:HB2	2.12	0.49
21:S4:1126:LEU:O	21:S4:1129:ASP:HB2	2.12	0.49
22:T4:854:LEU:HB2	22:T4:891:VAL:HG11	1.92	0.49
23:U1:50:ALA:HB1	23:U1:69:GLU:HG3	1.93	0.49
25:W2:174:VAL:HA	25:W2:183:LYS:O	2.12	0.49
25:W4:62:ALA:HB2	25:W4:107:TRP:CE2	2.46	0.49
26:X4:60:LYS:C	26:X4:62:GLY:H	2.14	0.49
26:X4:158:PHE:O	26:X4:162:VAL:HG23	2.12	0.49
28:Z3:522:ASN:O	28:Z3:526:ARG:HG3	2.12	0.49
28:Z4:522:ASN:O	28:Z4:526:ARG:HG3	2.12	0.49
1:A1:870:HIS:O	6:D3:279:HIS:HB2	2.01	0.49
1:A1:1333:ARG:HA	6:D1:637:LYS:CD	2.42	0.49
2:A2:983:LEU:HD21	6:D1:554:LEU:HA	1.94	0.49
1:A3:1237:LEU:HD13	3:A6:597:GLU:O	2.11	0.49
1:A3:1387:ILE:O	3:A6:225:THR:C	2.50	0.49
1:A3:1392:ARG:CA	3:A6:225:THR:CB	2.89	0.49
2:A4:692:VAL:CG1	3:A6:466:ALA:C	2.69	0.49
2:A4:759:ALA:CB	3:A6:388:GLU:CB	2.68	0.49
2:A4:779:ASP:OD1	6:D3:674:TYR:HB3	2.12	0.49
2:A4:854:VAL:HG12	3:A6:174:PRO:CB	2.43	0.49
2:A4:865:ALA:HB2	6:D3:567:LEU:CD2	2.28	0.49
2:A4:897:ASN:O	3:A6:165:PHE:CD1	2.64	0.49
2:A4:988:ARG:HD2	6:D3:500:LYS:HG3	1.79	0.49
3:A5:1029:ILE:CG2	11:I5:69:GLY:CA	2.66	0.49
3:A6:444:ARG:H	6:D3:719:LEU:HD12	1.74	0.49
6:D2:639:LEU:HD22	6:D2:689:PHE:CG	2.47	0.49
8:F1:689:ARG:O	8:F1:699:ARG:N	2.40	0.49
8:F1:1264:ARG:NE	17:O2:263:GLN:HA	2.26	0.49
8:F2:731:ASP:OD1	8:F2:732:VAL:N	2.45	0.49
8:F2:1088:GLU:CD	17:O4:247:TRP:O	2.44	0.49
9:G1:258:LYS:HE3	16:N2:408:MET:CE	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:256:GLN:CD	17:O4:262:ASP:H	2.06	0.49
11:I1:837:MET:HB3	17:O1:239:GLN:O	2.01	0.49
11:I1:920:PHE:O	15:M1:592:LEU:C	2.43	0.49
11:I1:950:LEU:HD11	16:N1:410:MET:HB2	1.94	0.49
11:I2:816:ASP:OD1	11:I2:817:ASP:N	2.42	0.49
11:I2:887:GLN:HB3	17:O3:243:LEU:HD23	1.93	0.49
11:I2:927:HIS:HB2	15:M3:597:LYS:CB	2.29	0.49
11:I2:950:LEU:HG	16:N3:410:MET:SD	2.43	0.49
11:I2:950:LEU:HD23	15:M3:606:LEU:CD2	2.41	0.49
11:I2:962:ILE:HG12	15:M3:600:ASN:OD1	2.11	0.49
11:I3:389:GLN:N	11:I3:389:GLN:OE1	2.46	0.49
11:I3:1013:GLU:OE1	11:I3:1013:GLU:N	2.41	0.49
11:I3:1274:HIS:CB	26:X1:534:ILE:HG21	2.32	0.49
11:I4:1112:SER:HB3	12:J4:241:THR:CB	2.42	0.49
17:O3:142:PHE:HA	17:O3:145:ILE:HG22	1.94	0.49
21:S3:429:SER:HB2	21:S3:436:SER:OG	2.12	0.49
21:S3:1030:GLN:O	21:S3:1034:LEU:HB2	2.11	0.49
21:S4:939:HIS:O	21:S4:939:HIS:CG	2.64	0.49
21:S4:988:LEU:O	21:S4:992:ILE:HG22	2.11	0.49
22:T1:781:THR:CG2	22:T1:784:GLU:H	2.26	0.49
24:V2:281:ILE:HB	24:V2:301:LEU:HD21	1.93	0.49
25:W4:214:PRO:HG2	25:W4:264:LEU:HA	1.92	0.49
26:X1:278:CYS:SG	26:X1:323:ASP:HB2	2.53	0.49
28:Z1:288:VAL:HG13	28:Z1:336:LEU:HD22	1.94	0.49
2:A2:226:PRO:C	6:D1:712:ASP:H	2.16	0.49
2:A2:870:HIS:HB2	6:D1:548:LEU:HD22	1.93	0.49
2:A2:875:LEU:H	6:D1:568:ARG:N	1.57	0.49
2:A2:980:ARG:HA	6:D1:503:LEU:N	2.21	0.49
1:A3:1221:ILE:HD11	2:A4:642:ARG:CA	2.41	0.49
1:A3:1227:PRO:HB3	3:A6:552:PHE:HE2	1.72	0.49
1:A3:1249:PHE:HE1	3:A6:584:GLY:H	1.54	0.49
1:A3:1257:VAL:O	3:A6:619:CYS:O	2.25	0.49
1:A3:1261:TYR:CD1	3:A6:621:GLN:CG	0.88	0.49
1:A3:1394:VAL:CB	3:A6:227:SER:HA	2.42	0.49
2:A4:555:VAL:HA	3:A6:456:ASP:HA	1.94	0.49
2:A4:574:ARG:NH1	3:A6:454:GLN:N	2.44	0.49
2:A4:717:VAL:HG23	3:A6:403:ARG:CZ	2.42	0.49
3:A5:1098:ARG:HD2	11:I5:29:GLN:CG	2.19	0.49
3:A5:1367:THR:C	28:Z2:845:ILE:N	2.65	0.49
6:D1:606:LYS:N	6:D1:607:PRO:CD	2.74	0.49
6:D6:727:VAL:O	6:D6:731:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:527:ASN:OD1	11:I3:181:GLN:NE2	2.45	0.49
9:G1:260:THR:O	17:O2:256:TYR:CE1	2.66	0.49
9:G2:256:GLN:HB3	17:O4:261:LYS:N	2.27	0.49
11:I1:917:TYR:O	15:M1:588:MET:HB3	2.12	0.49
11:I1:935:GLY:HA3	15:M1:604:ASN:O	2.10	0.49
11:I1:993:SER:OG	15:M1:616:LEU:CD2	2.60	0.49
11:I1:1032:THR:N	20:R1:177:LEU:N	2.54	0.49
11:I1:1043:LEU:CB	16:N1:430:ARG:HB2	2.43	0.49
11:I1:1052:LEU:CA	17:O1:286:ILE:HB	2.42	0.49
11:I1:1543:LEU:O	12:J2:300:ILE:CA	2.56	0.49
11:I1:1664:PHE:C	11:I2:1664:PHE:O	2.47	0.49
11:I2:389:GLN:N	11:I2:389:GLN:OE1	2.46	0.49
11:I2:873:ILE:O	17:O3:254:ARG:HB3	2.12	0.49
11:I2:891:LEU:N	17:O3:239:GLN:HA	2.08	0.49
11:I2:913:ALA:C	15:M3:584:GLN:O	2.49	0.49
11:I2:1049:LEU:CG	17:O3:291:ASP:OD1	2.59	0.49
11:I2:1051:LYS:CE	17:O3:285:LYS:HD2	2.41	0.49
11:I2:1644:ARG:CD	12:J2:275:PHE:CZ	2.96	0.49
11:I5:1644:ARG:CD	12:J5:275:PHE:CZ	2.96	0.49
21:S1:176:MET:CE	21:S1:232:LEU:HD12	2.42	0.49
21:S2:429:SER:HB2	21:S2:436:SER:OG	2.12	0.49
23:U2:354:SER:O	23:U2:358:VAL:HG23	2.11	0.49
23:U2:433:ALA:O	23:U2:435:PHE:N	2.44	0.49
24:V1:281:ILE:HB	24:V1:301:LEU:HD21	1.93	0.49
24:V1:374:LYS:O	24:V1:377:GLU:HB2	2.12	0.49
24:V2:397:GLU:OE1	24:V2:397:GLU:N	2.40	0.49
25:W4:57:TRP:HD1	25:W4:102:VAL:O	1.95	0.49
26:X1:158:PHE:O	26:X1:162:VAL:HG23	2.12	0.49
26:X1:306:TRP:O	26:X1:310:VAL:HG23	2.12	0.49
26:X2:278:CYS:SG	26:X2:323:ASP:HB2	2.53	0.49
28:Z4:53:GLY:HA2	28:Z4:73:SER:HA	1.94	0.49
28:Z4:258:ASP:OD1	28:Z4:260:VAL:HG22	2.11	0.49
1:A3:1117:ILE:HG21	3:A6:592:ASP:OD2	2.04	0.49
1:A3:1128:ASP:OD2	3:A6:607:ARG:CZ	2.60	0.49
1:A3:1203:TYR:H	3:A6:91:LEU:HG	1.57	0.49
1:A3:1251:VAL:O	3:A6:634:ASP:HB2	2.12	0.49
2:A4:86:ASN:ND2	3:A6:393:HIS:C	2.66	0.49
2:A4:552:PHE:HE1	3:A6:109:ASP:CG	2.13	0.49
2:A4:607:ARG:C	3:A6:103:ARG:NH1	2.66	0.49
2:A4:646:ILE:CD1	3:A6:500:LYS:CG	2.90	0.49
2:A4:684:VAL:HG13	3:A6:403:ARG:NH2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:694:GLN:CD	3:A6:377:ASN:ND2	2.66	0.49
2:A4:777:LEU:CD1	3:A6:467:LEU:CD1	2.38	0.49
2:A4:879:LEU:HD13	6:D3:564:ASN:HD21	1.77	0.49
2:A4:1305:ALA:CB	2:A4:1306:PRO:HD3	2.37	0.49
6:D3:639:LEU:HD22	6:D3:689:PHE:CG	2.47	0.49
6:D6:639:LEU:HD22	6:D6:689:PHE:CG	2.47	0.49
6:D7:727:VAL:O	6:D7:731:VAL:HG23	2.12	0.49
8:F1:1165:VAL:HG12	8:F1:1166:GLY:H	1.75	0.49
11:I1:931:VAL:O	15:M1:604:ASN:CA	2.59	0.49
11:I1:950:LEU:CD2	15:M1:606:LEU:CD2	2.90	0.49
11:I1:980:ILE:CG1	15:M1:622:VAL:N	2.75	0.49
11:I2:873:ILE:C	17:O3:255:GLY:N	2.66	0.49
11:I2:1037:THR:HG1	15:M3:620:VAL:HG13	1.73	0.49
11:I2:1052:LEU:H	17:O3:286:ILE:N	2.09	0.49
11:I2:1104:LEU:CD1	16:N3:433:GLU:OE2	2.61	0.49
11:I4:389:GLN:N	11:I4:389:GLN:OE1	2.45	0.49
11:I4:813:ILE:HG13	26:X3:496:THR:CG2	1.94	0.49
21:S1:671:ALA:CB	21:S2:1143:VAL:HA	2.42	0.49
22:T4:781:THR:CG2	22:T4:784:GLU:H	2.26	0.49
24:V3:374:LYS:O	24:V3:377:GLU:HB2	2.12	0.49
25:W1:214:PRO:HG2	25:W1:264:LEU:HA	1.93	0.49
26:X2:158:PHE:O	26:X2:162:VAL:HG23	2.12	0.49
26:X3:228:PHE:HE2	26:X3:267:ARG:HB3	1.77	0.49
26:X4:110:GLY:O	26:X4:114:ILE:HG13	2.12	0.49
26:X4:278:CYS:SG	26:X4:323:ASP:HB2	2.53	0.49
26:X4:306:TRP:O	26:X4:310:VAL:HG23	2.12	0.49
27:Y1:67:GLU:OE1	27:Y1:119:ALA:HB1	2.12	0.49
27:Y4:218:ILE:HG22	27:Y4:233:THR:HG22	1.94	0.49
28:Z1:522:ASN:O	28:Z1:526:ARG:HG3	2.12	0.49
2:A2:826:ASN:CB	6:D1:633:LYS:O	2.59	0.49
2:A2:980:ARG:HB3	2:A2:981:PRO:HD2	1.92	0.49
2:A2:1132:PRO:O	3:A5:138:LEU:HB3	2.11	0.49
1:A3:1231:VAL:HG22	3:A6:613:ALA:O	2.12	0.49
1:A3:1280:GLN:HE21	3:A6:571:ARG:HD2	1.78	0.49
2:A4:80:LYS:HG3	3:A6:323:THR:OG1	2.12	0.49
2:A4:619:CYS:SG	3:A6:512:GLU:N	2.82	0.49
2:A4:682:ARG:HG2	3:A6:432:VAL:C	2.33	0.49
2:A4:775:LEU:HD11	3:A6:478:ASP:O	2.12	0.49
2:A4:802:TYR:CG	3:A6:397:LEU:CB	2.95	0.49
2:A4:973:GLU:HG3	6:D3:192:TYR:CE2	2.46	0.49
2:A4:1305:ALA:HB1	2:A4:1306:PRO:CD	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1360:GLY:H	28:Z2:879:PHE:N	2.06	0.49
3:A5:1368:GLN:CB	28:Z2:841:ALA:O	2.61	0.49
3:A5:1368:GLN:CA	28:Z2:844:CYS:CB	2.90	0.49
3:A6:842:ARG:HG2	8:F2:776:HIS:HE1	1.77	0.49
6:D7:646:LEU:HD22	6:D7:696:ILE:CD1	2.42	0.49
11:I1:288:ILE:O	11:I1:292:GLY:N	2.46	0.49
11:I1:389:GLN:N	11:I1:389:GLN:OE1	2.45	0.49
11:I1:877:ILE:CB	17:O1:254:ARG:H	1.70	0.49
11:I1:945:LEU:HD23	17:O1:258:GLU:CA	2.15	0.49
11:I1:1603:ARG:CZ	11:I2:1662:ARG:CD	2.71	0.49
11:I2:887:GLN:CB	17:O3:243:LEU:HD23	2.43	0.49
11:I2:947:LEU:HA	16:N3:407:ALA:HA	1.89	0.49
11:I2:962:ILE:CD1	15:M3:596:ILE:CG2	2.79	0.49
11:I2:992:ILE:H	15:M3:608:LYS:HE3	1.78	0.49
11:I2:1034:ASP:OD1	11:I2:1035:GLN:N	2.44	0.49
11:I2:1037:THR:CG2	20:R3:170:LEU:H	2.25	0.49
11:I2:1051:LYS:NZ	17:O3:285:LYS:HZ2	2.10	0.49
11:I2:1111:ALA:N	16:N3:439:ARG:N	2.60	0.49
11:I4:1270:LYS:CD	26:X3:527:VAL:CB	2.83	0.49
11:I5:535:ASP:O	25:W2:8:HIS:N	2.46	0.49
11:I5:816:ASP:OD1	11:I5:817:ASP:N	2.42	0.49
21:S1:1052:LEU:HA	21:S1:1055:LEU:CD2	2.42	0.49
21:S3:418:TYR:N	21:S3:418:TYR:CD1	2.81	0.49
24:V3:523:THR:HA	24:V3:526:HIS:HB2	1.95	0.49
26:X2:110:GLY:O	26:X2:114:ILE:HG13	2.12	0.49
27:Y1:77:TYR:HA	27:Y1:110:SER:HB3	1.95	0.49
27:Y4:77:TYR:HA	27:Y4:110:SER:HB3	1.95	0.49
28:Z3:188:LYS:HE2	28:Z3:191:GLY:HA2	1.95	0.49
1:A1:834:GLU:OE1	6:D3:302:PRO:HG3	2.11	0.49
1:A1:1221:ILE:HG13	2:A2:723:PHE:CZ	2.47	0.49
2:A2:227:SER:HB3	6:D1:712:ASP:H	1.76	0.49
2:A2:227:SER:OG	6:D1:711:PHE:HB3	2.10	0.49
2:A2:874:VAL:HG11	6:D1:611:LYS:CB	2.21	0.49
1:A3:1188:ASN:CG	3:A6:642:ARG:HG3	2.32	0.49
1:A3:1201:ARG:HG3	2:A4:728:LYS:O	1.93	0.49
1:A3:1220:PRO:HB2	2:A4:672:ARG:NE	2.28	0.49
1:A3:1230:TYR:CE2	3:A6:605:TYR:HB2	2.47	0.49
1:A3:1282:PHE:HB2	3:A6:625:LEU:HB3	1.93	0.49
2:A4:616:ALA:HB2	3:A6:509:LYS:HB2	1.89	0.49
2:A4:707:THR:HG21	3:A6:400:THR:O	2.12	0.49
2:A4:713:ILE:CG2	3:A6:403:ARG:NE	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:717:VAL:HG12	3:A6:493:ALA:HA	1.95	0.49
3:A6:1151:THR:CB	5:C6:733:LEU:HD12	2.41	0.49
3:A6:1390:LEU:O	28:Z4:910:GLN:O	2.30	0.49
6:D2:727:VAL:O	6:D2:731:VAL:HG23	2.12	0.49
9:G1:254:ASN:OD1	15:M2:605:THR:HB	2.04	0.49
11:I1:877:ILE:CG2	17:O1:254:ARG:N	2.75	0.49
11:I1:917:TYR:O	16:N1:389:PHE:CD2	2.47	0.49
11:I1:951:LYS:CG	17:O1:253:LEU:HD11	2.42	0.49
11:I1:998:ALA:CB	17:O1:267:ALA:CB	2.84	0.49
11:I1:1064:LYS:O	17:O1:274:GLY:CA	2.60	0.49
11:I1:1108:PRO:HG2	16:N1:441:PHE:C	2.32	0.49
11:I1:1644:ARG:CD	12:J1:275:PHE:CZ	2.96	0.49
11:I2:288:ILE:O	11:I2:292:GLY:N	2.46	0.49
11:I2:934:LEU:O	17:O3:261:LYS:HD2	2.11	0.49
11:I2:1067:PHE:CD1	16:N3:430:ARG:CA	2.96	0.49
17:O4:111:TYR:HA	18:P4:325:ILE:HD12	1.95	0.49
17:O4:111:TYR:HA	18:P4:325:ILE:CD1	2.43	0.49
18:P4:233:GLN:HB2	18:P4:236:GLN:NE2	2.28	0.49
21:S3:1052:LEU:HA	21:S3:1055:LEU:CD2	2.42	0.49
23:U3:50:ALA:HB1	23:U3:69:GLU:HG3	1.93	0.49
24:V2:523:THR:HA	24:V2:526:HIS:HB2	1.95	0.49
26:X3:278:CYS:SG	26:X3:323:ASP:HB2	2.53	0.49
28:Z2:258:ASP:OD1	28:Z2:260:VAL:HG22	2.11	0.49
28:Z4:91:LYS:NZ	28:Z4:142:ALA:O	2.30	0.49
1:A1:780:GLU:HG3	1:A1:822:ILE:CG2	2.43	0.49
2:A2:227:SER:HB3	6:D1:711:PHE:CA	2.42	0.49
2:A2:809:THR:HB	2:A2:810:PRO:HD3	1.95	0.49
2:A2:864:ARG:CG	6:D1:609:ILE:HB	2.18	0.49
1:A3:1086:LYS:HE2	6:D3:800:PRO:HD3	1.95	0.49
1:A3:1120:ASP:HB3	3:A6:595:GLU:O	2.13	0.49
1:A3:1189:LEU:CD1	3:A6:641:ALA:HA	2.38	0.49
1:A3:1196:GLU:OE1	3:A6:611:ILE:HB	2.12	0.49
2:A4:544:PHE:N	3:A6:365:MET:N	2.41	0.49
2:A4:549:ALA:HB2	3:A6:365:MET:HE2	1.19	0.49
2:A4:689:LYS:CA	3:A6:381:LEU:HD21	2.36	0.49
2:A4:705:ILE:HD12	3:A6:483:HIS:H	1.77	0.49
2:A4:750:ASN:O	3:A6:93:ASP:CB	2.55	0.49
2:A4:809:THR:HB	2:A4:810:PRO:HD3	1.95	0.49
2:A4:859:GLN:HG2	3:A6:176:LEU:CD1	2.43	0.49
2:A4:871:ASN:O	6:D3:565:MET:O	2.29	0.49
2:A4:889:VAL:CG1	3:A6:171:HIS:HB3	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:973:GLU:CB	6:D3:498:GLU:CB	2.90	0.49
2:A4:983:LEU:CB	6:D3:528:PHE:HZ	1.87	0.49
3:A5:919:LEU:HB3	11:I5:61:LYS:NZ	2.28	0.49
3:A6:1371:GLY:N	28:Z4:871:HIS:O	2.28	0.49
6:D3:808:ASN:O	6:D3:812:VAL:HG23	2.13	0.49
8:F1:982:PRO:CB	11:I1:1388:GLU:CG	2.90	0.49
9:G1:252:LEU:O	15:M2:602:MET:CA	2.61	0.49
9:G1:258:LYS:CE	16:N2:408:MET:HE2	2.42	0.49
11:I1:833:PHE:HE2	17:O1:238:ALA:CB	2.09	0.49
11:I1:949:CYS:SG	17:O1:254:ARG:HA	2.53	0.49
11:I1:1052:LEU:N	17:O1:286:ILE:CB	2.68	0.49
11:I2:883:ALA:HB3	17:O3:246:LEU:CB	2.08	0.49
11:I2:997:SER:HB2	17:O3:270:THR:HG21	1.93	0.49
11:I2:1033:PRO:C	20:R3:177:LEU:HG	2.33	0.49
11:I2:1045:PHE:CD1	17:O3:279:ILE:CG2	2.95	0.49
11:I2:1054:ILE:CG2	17:O3:278:GLU:CB	2.48	0.49
11:I4:1083:GLU:OE1	11:I4:1083:GLU:N	2.42	0.49
21:S1:987:MET:HE3	21:S1:991:LYS:HE2	1.93	0.49
21:S1:1012:LEU:HA	21:S1:1015:GLU:HB2	1.95	0.49
21:S2:418:TYR:N	21:S2:418:TYR:CD1	2.80	0.49
21:S4:1052:LEU:HA	21:S4:1055:LEU:CD2	2.42	0.49
23:U3:349:SER:OG	23:U3:358:VAL:HG21	2.13	0.49
23:U4:233:THR:HG22	23:U4:234:GLN:O	2.12	0.49
25:W1:174:VAL:HA	25:W1:183:LYS:O	2.12	0.49
25:W3:62:ALA:HB2	25:W3:107:TRP:CE2	2.46	0.49
25:W4:174:VAL:HA	25:W4:183:LYS:O	2.12	0.49
26:X1:228:PHE:HE2	26:X1:267:ARG:HB3	1.77	0.49
27:Y1:30:ASP:OD1	27:Y1:32:HIS:HB2	2.13	0.49
28:Z1:188:LYS:HE2	28:Z1:191:GLY:HA2	1.95	0.49
28:Z2:188:LYS:HE2	28:Z2:191:GLY:HA2	1.95	0.49
1:A1:871:ASN:CA	6:D3:279:HIS:H	2.22	0.49
2:A2:780:GLU:HB3	6:D1:677:GLN:HB3	1.89	0.49
2:A2:865:ALA:O	6:D1:598:ILE:HD13	2.11	0.49
2:A2:978:ASP:OD2	6:D1:473:GLU:O	2.31	0.49
2:A2:1143:LEU:CA	3:A5:130:ILE:O	2.57	0.49
1:A3:1086:LYS:HG2	6:D3:798:MET:C	2.32	0.49
1:A3:1170:ILE:H	3:A6:591:ASP:HA	1.74	0.49
2:A4:86:ASN:C	3:A6:393:HIS:H	2.12	0.49
2:A4:536:ALA:H	3:A6:369:SER:CA	2.21	0.49
2:A4:764:MET:HB2	3:A6:475:TYR:CD1	2.47	0.49
2:A4:799:ASP:OD1	3:A6:316:ARG:CA	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:886:PHE:CZ	3:A6:176:LEU:CD1	2.95	0.49
2:A4:888:GLN:NE2	3:A6:172:PRO:HG2	2.27	0.49
2:A4:965:LYS:CE	6:D3:196:ILE:C	2.80	0.49
3:A5:997:ASP:N	11:I5:61:LYS:HB2	2.28	0.49
3:A5:999:SER:CB	11:I5:64:LYS:HG3	2.36	0.49
3:A5:1415:PHE:O	28:Z2:962:LYS:N	2.45	0.49
3:A6:520:GLU:HA	6:D3:639:LEU:HD11	0.53	0.49
3:A6:521:ASN:H	6:D3:639:LEU:CD2	2.16	0.49
6:D3:727:VAL:O	6:D3:731:VAL:HG23	2.12	0.49
8:F1:1392:LEU:N	8:F1:1393:PRO:HD2	2.27	0.49
9:G1:263:MET:CB	16:N2:411:GLN:HB3	2.43	0.49
9:G2:256:GLN:HG2	17:O4:262:ASP:CG	2.32	0.49
11:I1:936:LYS:HG3	15:M1:605:THR:HG22	1.95	0.49
11:I1:959:SER:OG	16:N1:395:GLU:CB	2.61	0.49
11:I1:987:GLY:H	15:M1:613:ASP:CB	2.18	0.49
11:I1:1608:SER:O	12:J2:299:GLY:HA2	2.13	0.49
11:I1:1668:HIS:CB	11:I2:1668:HIS:C	2.79	0.49
11:I2:980:ILE:N	20:R3:147:LEU:HD12	2.20	0.49
11:I2:1021:ILE:CA	16:N3:406:HIS:HE1	2.00	0.49
11:I2:1045:PHE:HB2	15:M3:619:ILE:CD1	2.42	0.49
17:O3:158:GLU:HG2	18:P3:316:LEU:H	1.49	0.49
21:S2:992:ILE:HG12	21:S2:992:ILE:O	2.13	0.49
22:T2:781:THR:CG2	22:T2:784:GLU:H	2.26	0.49
27:Y2:312:TRP:CZ3	27:Y2:319:LEU:HB2	2.48	0.49
27:Y4:30:ASP:OD1	27:Y4:32:HIS:HB2	2.13	0.49
1:A1:1223:GLU:HG2	2:A2:724:LEU:CB	2.37	0.49
2:A2:780:GLU:CB	6:D1:679:ILE:N	2.70	0.49
2:A2:1135:ARG:HH11	3:A5:158:ALA:HB2	1.74	0.49
2:A2:1135:ARG:HA	3:A5:147:LEU:CD2	2.42	0.49
1:A3:1161:ALA:O	3:A6:648:TYR:C	2.50	0.49
1:A3:1166:LEU:HD21	3:A6:598:VAL:HB	1.95	0.49
1:A3:1189:LEU:N	3:A6:641:ALA:C	2.37	0.49
1:A3:1197:ALA:CB	2:A4:728:LYS:NZ	2.75	0.49
1:A3:1201:ARG:CB	3:A6:549:ALA:HB2	2.25	0.49
1:A3:1254:LEU:HG	3:A6:638:GLU:HG3	1.87	0.49
1:A3:1257:VAL:CG1	3:A6:620:GLY:H	1.97	0.49
2:A4:556:PRO:CG	3:A6:454:GLN:HB3	2.42	0.49
2:A4:670:SER:N	3:A6:542:LEU:HG	2.17	0.49
2:A4:818:LEU:CD2	3:A6:146:LYS:HZ2	2.25	0.49
2:A4:897:ASN:N	3:A6:178:GLY:CA	2.70	0.49
2:A4:955:CYS:SG	4:B6:345:LYS:N	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:973:GLU:OE1	6:D3:192:TYR:CE2	2.65	0.49
3:A5:993:ASN:C	11:I5:57:GLU:CB	2.74	0.49
3:A5:999:SER:OG	11:I5:63:PRO:HG2	2.13	0.49
3:A5:1030:THR:HA	11:I5:70:GLU:O	2.12	0.49
3:A5:1050:TYR:OH	11:I5:70:GLU:CG	2.59	0.49
3:A5:1056:PHE:CZ	11:I5:38:GLN:CA	2.95	0.49
3:A5:1313:LYS:HB2	28:Z2:830:LEU:HA	1.93	0.49
3:A5:1369:ILE:CB	28:Z2:831:LEU:H	1.96	0.49
4:B5:344:ALA:CB	5:C2:740:ARG:HH21	2.13	0.49
6:D1:727:VAL:O	6:D1:731:VAL:HG23	2.13	0.49
6:D5:333:ALA:O	6:D5:337:VAL:HG23	2.13	0.49
8:F1:1202:TYR:CD1	17:O2:252:VAL:HG21	2.35	0.49
8:F2:689:ARG:O	8:F2:699:ARG:N	2.40	0.49
11:I1:849:LEU:CD1	17:O1:247:TRP:CZ3	2.92	0.49
11:I1:966:TRP:HA	20:R1:154:ALA:N	2.28	0.49
11:I1:1017:VAL:N	16:N1:412:ASN:CA	2.70	0.49
11:I2:961:ARG:HH22	16:N3:388:LYS:CB	2.18	0.49
11:I3:1276:GLN:HB2	26:X1:522:MET:CE	2.43	0.49
11:I3:1277:LEU:H	26:X1:523:LEU:HG	1.78	0.49
11:I4:1072:ASN:O	11:I4:1076:THR:HG22	2.13	0.49
11:I5:1013:GLU:OE1	11:I5:1013:GLU:N	2.41	0.49
17:O2:142:PHE:HA	17:O2:145:ILE:HG22	1.95	0.49
21:S2:1001:PHE:CD2	21:S2:1001:PHE:C	2.86	0.49
21:S2:1052:LEU:HA	21:S2:1055:LEU:CD2	2.42	0.49
21:S3:678:GLU:C	21:S4:1141:GLU:HA	2.32	0.49
21:S3:1012:LEU:HA	21:S3:1015:GLU:HB2	1.95	0.49
22:T3:781:THR:CG2	22:T3:784:GLU:H	2.26	0.49
23:U2:349:SER:OG	23:U2:358:VAL:HG21	2.13	0.49
23:U4:349:SER:OG	23:U4:358:VAL:HG21	2.13	0.49
24:V4:182:ARG:HD2	24:V4:449:GLN:OE1	2.13	0.49
25:W3:214:PRO:HG2	25:W3:264:LEU:HA	1.93	0.49
26:X1:110:GLY:O	26:X1:114:ILE:HG13	2.12	0.49
27:Y3:67:GLU:OE1	27:Y3:119:ALA:HB1	2.12	0.49
27:Y3:312:TRP:CZ3	27:Y3:319:LEU:HB2	2.48	0.49
27:Y4:312:TRP:CZ3	27:Y4:319:LEU:HB2	2.48	0.49
28:Z1:53:GLY:HA2	28:Z1:73:SER:HA	1.94	0.49
2:A2:874:VAL:HG22	6:D1:611:LYS:CE	2.43	0.49
2:A2:973:GLU:H	6:D1:192:TYR:HE2	1.61	0.49
2:A2:1136:LYS:CG	3:A5:138:LEU:C	2.81	0.49
1:A3:1195:PHE:CE2	3:A6:678:LEU:N	2.68	0.49
1:A3:1230:TYR:CE2	3:A6:575:LEU:HD11	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1236:GLN:NE2	3:A6:573:ARG:HH11	2.03	0.49
1:A3:1265:ASN:O	3:A6:552:PHE:CB	2.59	0.49
2:A4:89:LEU:CD2	3:A6:429:LEU:CD1	2.91	0.49
2:A4:95:TYR:HB3	3:A6:365:MET:CA	2.43	0.49
2:A4:616:ALA:CB	3:A6:109:ASP:CB	2.77	0.49
2:A4:683:LEU:HD12	3:A6:510:TYR:CZ	2.48	0.49
2:A4:757:LEU:HG	3:A6:544:PHE:N	2.27	0.49
2:A4:791:ALA:O	3:A6:247:ASP:OD1	2.31	0.49
2:A4:861:GLN:O	6:D3:607:PRO:HD2	2.06	0.49
2:A4:947:LYS:HB3	4:B6:351:GLU:HG2	1.94	0.49
2:A4:983:LEU:CD2	6:D3:528:PHE:CD1	2.96	0.49
3:A6:446:LEU:CG	6:D3:721:PRO:HB3	2.43	0.49
3:A6:522:GLY:CA	6:D3:674:TYR:HA	2.43	0.49
3:A6:862:LEU:HD11	3:A6:904:GLN:HB3	1.95	0.49
9:G2:263:MET:CE	17:O4:259:ASP:OD2	2.60	0.49
11:I1:850:ILE:HG21	15:M1:594:LYS:CG	2.43	0.49
11:I1:1030:ARG:NE	20:R1:179:LYS:HD3	2.26	0.49
11:I1:1041:GLN:CB	15:M1:620:VAL:CB	2.87	0.49
11:I1:1049:LEU:HG	17:O1:291:ASP:HA	1.91	0.49
11:I1:1055:GLU:CB	17:O1:281:ALA:N	2.75	0.49
11:I1:1057:LYS:H	17:O1:278:GLU:HB2	1.78	0.49
11:I1:1604:ALA:C	11:I2:1739:GLU:C	2.70	0.49
11:I1:1668:HIS:C	11:I2:1668:HIS:CB	2.81	0.49
11:I2:301:GLN:OE1	11:I2:301:GLN:N	2.42	0.49
11:I2:702:GLN:OE1	11:I2:702:GLN:N	2.41	0.49
11:I2:887:GLN:HB2	16:N3:393:ILE:HD13	1.93	0.49
11:I2:891:LEU:N	17:O3:239:GLN:HB3	2.26	0.49
11:I2:956:ILE:CG2	20:R3:166:LEU:HB2	2.43	0.49
11:I2:1016:ARG:O	16:N3:408:MET:O	2.30	0.49
11:I2:1067:PHE:HD1	16:N3:433:GLU:H	1.50	0.49
11:I4:288:ILE:O	11:I4:292:GLY:N	2.46	0.49
11:I4:1644:ARG:CD	12:J4:275:PHE:CZ	2.96	0.49
11:I5:1277:LEU:O	26:X2:517:ASP:OD1	2.31	0.49
15:M1:495:TRP:CG	16:N1:280:LEU:HD13	2.48	0.49
17:O3:148:ARG:NH2	18:P3:325:ILE:HG21	2.26	0.49
18:P3:233:GLN:HB2	18:P3:236:GLN:NE2	2.28	0.49
21:S1:671:ALA:CB	21:S2:1143:VAL:CA	2.91	0.49
23:U2:157:ASP:OD1	23:U2:163:ARG:NH2	2.46	0.49
23:U3:233:THR:HG22	23:U3:234:GLN:O	2.12	0.49
24:V3:152:ALA:HB3	25:W3:272:SER:OG	2.13	0.49
24:V4:523:THR:HA	24:V4:526:HIS:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W3:174:VAL:HA	25:W3:183:LYS:O	2.12	0.49
26:X3:110:GLY:O	26:X3:114:ILE:HG13	2.12	0.49
27:Y2:311:SER:O	27:Y2:319:LEU:HD12	2.13	0.49
27:Y3:30:ASP:OD1	27:Y3:32:HIS:HB2	2.13	0.49
1:A1:1055:ARG:NH2	1:A1:1058:GLU:OE1	2.46	0.48
2:A2:867:GLU:CA	6:D1:598:ILE:HG21	2.42	0.48
2:A2:873:PRO:HA	6:D1:563:GLU:HB3	1.95	0.48
2:A2:907:SER:CB	6:D1:601:PHE:C	2.81	0.48
2:A2:1126:VAL:HG22	3:A5:135:PHE:CD1	2.47	0.48
1:A3:1235:ILE:C	3:A6:581:LYS:CA	2.43	0.48
1:A3:1268:ASP:N	3:A6:554:GLN:N	2.53	0.48
2:A4:550:VAL:HG23	3:A6:367:ASP:CB	2.17	0.48
2:A4:768:SER:HA	3:A6:477:PHE:CA	2.42	0.48
2:A4:868:GLN:CG	6:D3:598:ILE:HD13	2.34	0.48
2:A4:875:LEU:HD13	6:D3:566:PHE:CE2	2.37	0.48
3:A5:1004:HIS:CE1	11:I5:58:ALA:O	2.65	0.48
3:A6:518:GLU:C	6:D3:686:ASP:OD2	2.35	0.48
3:A6:780:GLU:HG3	3:A6:822:ILE:CG2	2.43	0.48
3:A6:1359:LEU:CB	28:Z4:917:ASP:N	2.69	0.48
6:D1:808:ASN:O	6:D1:812:VAL:HG23	2.13	0.48
6:D3:333:ALA:O	6:D3:337:VAL:HG23	2.13	0.48
6:D4:727:VAL:O	6:D4:731:VAL:HG23	2.12	0.48
6:D4:808:ASN:O	6:D4:812:VAL:HG23	2.13	0.48
6:D7:808:ASN:O	6:D7:812:VAL:HG23	2.13	0.48
8:F1:1137:GLN:CG	17:O2:248:SER:C	2.38	0.48
8:F2:1089:PRO:O	17:O4:245:GLU:C	2.51	0.48
11:I1:702:GLN:OE1	11:I1:702:GLN:N	2.41	0.48
11:I1:840:LEU:CD2	17:O1:244:GLU:CG	2.90	0.48
11:I1:880:MET:HG2	17:O1:247:TRP:CE3	2.47	0.48
11:I1:896:PRO:CA	17:O1:233:THR:N	2.76	0.48
11:I1:983:LEU:HD13	15:M1:621:ARG:NE	2.28	0.48
11:I1:1032:THR:CA	20:R1:176:ARG:O	2.60	0.48
11:I1:1668:HIS:CB	11:I2:1668:HIS:CB	2.79	0.48
11:I2:930:LEU:HG	15:M3:602:MET:N	2.28	0.48
11:I2:955:LYS:NZ	17:O3:249:ARG:HH21	2.08	0.48
11:I2:1041:GLN:HE22	15:M3:617:THR:CG2	2.02	0.48
11:I2:1046:HIS:HB2	17:O3:280:GLU:CB	2.43	0.48
11:I2:1068:HIS:C	16:N3:429:GLU:CD	2.70	0.48
11:I3:52:ASP:OD1	11:I3:53:THR:N	2.46	0.48
11:I3:1644:ARG:CD	12:J3:275:PHE:CZ	2.96	0.48
11:I5:389:GLN:OE1	11:I5:389:GLN:N	2.45	0.48

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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
11:I5:1112:SER:HB3	12:J5:241:THR:CB	2.43	0.48
21:S4:418:TYR:N	21:S4:418:TYR:CD1	2.81	0.48
21:S4:429:SER:HB2	21:S4:436:SER:OG	2.12	0.48
24:V1:317:GLY:O	24:V1:320:SER:HB3	2.13	0.48
24:V3:397:GLU:OE1	24:V3:397:GLU:N	2.40	0.48
25:W4:181:LEU:HD23	25:W4:201:GLU:HG2	1.95	0.48
26:X3:159:ILE:HG12	26:X3:175:LEU:CB	2.39	0.48
27:Y1:311:SER:O	27:Y1:319:LEU:HD12	2.13	0.48
27:Y2:30:ASP:OD1	27:Y2:32:HIS:HB2	2.13	0.48
27:Y3:77:TYR:HA	27:Y3:110:SER:HB3	1.95	0.48
28:Z3:160:VAL:HG23	28:Z3:161:ARG:N	2.28	0.48
28:Z4:188:LYS:HE2	28:Z4:191:GLY:HA2	1.95	0.48
1:A1:832:ASN:OD1	6:D3:298:ASN:HB2	2.05	0.48
1:A1:1324:ASP:OD1	2:A2:853:VAL:HG11	2.13	0.48
2:A2:980:ARG:CA	6:D1:503:LEU:H	2.21	0.48
2:A2:1121:LEU:CB	3:A5:132:ASP:HB2	2.43	0.48
2:A2:1305:ALA:HB3	2:A2:1306:PRO:HD2	1.94	0.48
1:A3:1196:GLU:C	3:A6:609:GLU:CB	2.78	0.48
1:A3:1274:ASP:CA	3:A6:556:PRO:C	2.72	0.48
1:A3:1274:ASP:HA	3:A6:555:VAL:HG23	1.15	0.48
1:A3:1280:GLN:HE21	3:A6:571:ARG:HB3	1.77	0.48
1:A3:1281:LEU:CD1	3:A6:577:ASP:C	2.81	0.48
2:A4:87:GLN:CD	3:A6:390:SER:O	2.50	0.48
2:A4:553:ASP:CG	3:A6:434:PHE:N	2.62	0.48
2:A4:616:ALA:CB	3:A6:109:ASP:OD1	2.39	0.48
2:A4:675:ALA:CB	3:A6:508:LEU:HB2	2.29	0.48
2:A4:718:GLU:HA	3:A6:493:ALA:CB	2.42	0.48
2:A4:721:ARG:CD	3:A6:122:PHE:HZ	2.27	0.48
2:A4:729:SER:C	3:A6:678:LEU:CD2	2.69	0.48
2:A4:864:ARG:CD	6:D3:610:ASN:H	2.24	0.48
2:A4:897:ASN:CB	3:A6:177:ILE:O	2.60	0.48
2:A4:901:ALA:CB	3:A6:133:LYS:CE	2.86	0.48
2:A4:978:ASP:H	6:D3:492:VAL:CG1	2.26	0.48
3:A5:1399:ARG:O	28:Z2:919:PHE:CB	2.62	0.48
3:A6:516:TRP:O	6:D3:683:LYS:HD2	2.13	0.48
3:A6:1057:PHE:CD2	3:A6:1096:ILE:HD13	2.48	0.48
6:D2:808:ASN:O	6:D2:812:VAL:HG23	2.13	0.48
6:D4:333:ALA:O	6:D4:337:VAL:HG23	2.13	0.48
8:F1:1261:TYR:CZ	17:O2:263:GLN:HB3	2.46	0.48
11:I1:991:THR:HG23	15:M1:609:GLY:H	1.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1013:GLU:C	16:N1:412:ASN:HA	2.33	0.48
11:I1:1034:ASP:OD1	11:I1:1035:GLN:N	2.44	0.48
11:I1:1036:PRO:CD	16:N1:441:PHE:CE2	2.96	0.48
11:I1:1103:LEU:HB3	20:R1:174:ARG:HB3	1.95	0.48
11:I2:962:ILE:HA	20:R3:164:PRO:O	2.13	0.48
11:I2:963:LEU:HD13	15:M3:628:ALA:HB2	1.95	0.48
11:I2:983:LEU:C	15:M3:613:ASP:CA	2.81	0.48
11:I2:993:SER:HB2	17:O3:271:GLU:O	2.13	0.48
11:I2:1052:LEU:O	17:O3:286:ILE:N	2.39	0.48
11:I2:1113:LEU:HD13	17:O3:279:ILE:HG23	1.95	0.48
11:I3:816:ASP:OD1	11:I3:817:ASP:N	2.42	0.48
11:I3:1274:HIS:O	26:X1:534:ILE:CG2	2.59	0.48
17:O1:142:PHE:HA	17:O1:145:ILE:HG22	1.94	0.48
17:O3:137:VAL:HG21	18:P3:326:GLN:HG2	1.95	0.48
21:S2:1012:LEU:HA	21:S2:1015:GLU:HB2	1.95	0.48
21:S3:882:GLN:C	21:S3:884:ARG:H	2.15	0.48
21:S4:992:ILE:O	21:S4:992:ILE:HG12	2.13	0.48
23:U4:379:ILE:HG13	23:U4:385:LEU:HD23	1.94	0.48
25:W1:181:LEU:HD23	25:W1:201:GLU:HG2	1.95	0.48
25:W2:229:ARG:HB2	25:W2:229:ARG:HH11	1.78	0.48
28:Z1:24:VAL:HG11	28:Z1:143:ASN:HA	1.95	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:N	2.28	0.48
28:Z2:24:VAL:HG11	28:Z2:143:ASN:HA	1.95	0.48
28:Z2:522:ASN:O	28:Z2:526:ARG:HG3	2.13	0.48
28:Z3:53:GLY:HA2	28:Z3:73:SER:HA	1.94	0.48
28:Z4:967:PHE:HA	28:Z4:978:ALA:HB2	1.95	0.48
2:A2:227:SER:HB2	6:D1:712:ASP:N	2.24	0.48
1:A3:1186:TRP:CH2	3:A6:583:LEU:CD2	2.96	0.48
1:A3:1189:LEU:H	3:A6:642:ARG:HA	1.77	0.48
1:A3:1238:ILE:CG2	3:A6:640:LEU:CD1	2.89	0.48
2:A4:80:LYS:HG2	3:A6:323:THR:OG1	2.12	0.48
2:A4:85:VAL:HG22	3:A6:405:PHE:CE1	2.48	0.48
2:A4:539:LYS:C	3:A6:359:LEU:C	2.61	0.48
2:A4:635:ARG:HH22	3:A6:601:PHE:C	2.17	0.48
2:A4:648:TYR:HB2	3:A6:503:GLN:HA	1.95	0.48
2:A4:692:VAL:CA	3:A6:379:VAL:O	2.53	0.48
2:A4:692:VAL:HA	3:A6:379:VAL:CG2	2.31	0.48
2:A4:720:LEU:CG	3:A6:494:PRO:HB3	2.35	0.48
2:A4:768:SER:N	3:A6:475:TYR:O	2.46	0.48
2:A4:781:ARG:CD	6:D3:633:LYS:CE	2.91	0.48
2:A4:792:VAL:CB	3:A6:187:THR:CB	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:857:LYS:HD3	3:A6:129:ASN:HB2	1.86	0.48
2:A4:873:PRO:CB	6:D3:572:GLU:OE2	2.62	0.48
3:A5:186:ILE:HD12	5:C2:744:PHE:CA	2.43	0.48
3:A6:444:ARG:NH2	6:D3:736:ASN:HD21	2.11	0.48
6:D5:727:VAL:O	6:D5:731:VAL:HG23	2.12	0.48
8:F1:1392:LEU:HD23	17:O2:266:GLN:HE22	1.73	0.48
9:G1:262:SER:N	17:O2:256:TYR:CE1	2.73	0.48
11:I1:300:LEU:O	11:I1:300:LEU:HD23	2.14	0.48
11:I1:981:VAL:N	15:M1:621:ARG:CD	2.72	0.48
11:I1:1042:LEU:CA	20:R1:170:LEU:HD11	2.42	0.48
11:I1:1669:ARG:CD	11:I2:1605:LEU:CD1	2.60	0.48
11:I2:918:SER:OG	16:N3:389:PHE:N	2.46	0.48
11:I2:952:LEU:HD12	15:M3:599:ILE:HG23	1.94	0.48
11:I2:964:SER:CA	20:R3:153:GLN:NE2	2.76	0.48
11:I2:966:TRP:HA	20:R3:153:GLN:HB3	1.92	0.48
11:I2:980:ILE:H	20:R3:147:LEU:HD12	1.78	0.48
11:I2:983:LEU:CD1	15:M3:621:ARG:HH21	2.25	0.48
11:I2:1049:LEU:HD21	17:O3:291:ASP:OD2	2.14	0.48
11:I3:1072:ASN:O	11:I3:1076:THR:HG22	2.13	0.48
11:I5:1072:ASN:O	11:I5:1076:THR:HG22	2.13	0.48
12:J2:240:GLY:O	12:J2:241:THR:OG1	2.28	0.48
15:M3:495:TRP:CG	16:N3:280:LEU:HD13	2.48	0.48
17:O2:110:LEU:HG	18:P2:322:LYS:HA	1.95	0.48
17:O3:151:LEU:HD23	18:P3:325:ILE:HD11	1.91	0.48
21:S2:964:PHE:HE1	21:S2:1002:LEU:HD22	1.78	0.48
21:S3:964:PHE:HE1	21:S3:1002:LEU:HD22	1.78	0.48
22:T1:828:TRP:O	22:T1:850:ARG:HD2	2.13	0.48
23:U2:379:ILE:HG13	23:U2:385:LEU:HD23	1.94	0.48
24:V2:182:ARG:HD2	24:V2:449:GLN:OE1	2.13	0.48
24:V3:182:ARG:HD2	24:V3:449:GLN:OE1	2.13	0.48
26:X2:64:LYS:HD3	27:Y2:324:ASP:HB3	1.95	0.48
26:X4:228:PHE:HE2	26:X4:267:ARG:HB3	1.77	0.48
27:Y1:34:LYS:HG2	27:Y1:50:SER:HB2	1.96	0.48
2:A2:865:ALA:H	6:D1:607:PRO:CD	2.03	0.48
2:A2:865:ALA:O	6:D1:608:ILE:HD11	2.13	0.48
2:A2:983:LEU:CB	6:D1:528:PHE:HE1	2.13	0.48
1:A3:1054:SER:CB	6:D3:810:ARG:N	2.77	0.48
1:A3:1121:LEU:CA	3:A6:599:ARG:HH21	2.26	0.48
1:A3:1183:LEU:CD1	3:A6:635:ARG:HG3	2.31	0.48
1:A3:1188:ASN:N	3:A6:723:PHE:HZ	1.75	0.48
1:A3:1196:GLU:CB	3:A6:610:THR:N	2.63	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1233:GLN:C	3:A6:578:ILE:HG22	2.34	0.48
1:A3:1280:GLN:NE2	3:A6:571:ARG:HB3	2.29	0.48
2:A4:574:ARG:HG3	3:A6:454:GLN:HB3	1.94	0.48
2:A4:607:ARG:CA	3:A6:506:SER:CA	2.92	0.48
2:A4:615:LEU:HD23	3:A6:509:LYS:C	2.32	0.48
2:A4:689:LYS:O	3:A6:330:LEU:HD11	2.14	0.48
2:A4:733:GLY:CA	3:A6:94:SER:N	2.76	0.48
2:A4:952:ARG:H	4:B6:347:LEU:HD23	1.78	0.48
3:A5:146:LYS:HZ3	5:C2:747:PRO:CG	2.26	0.48
3:A5:147:LEU:O	5:C2:747:PRO:HB2	2.04	0.48
3:A5:780:GLU:HG3	3:A5:822:ILE:CG2	2.43	0.48
3:A5:993:ASN:O	11:I5:57:GLU:CG	2.35	0.48
3:A5:1057:PHE:CD2	3:A5:1096:ILE:HD13	2.48	0.48
3:A5:1091:VAL:C	11:I5:37:GLU:N	2.66	0.48
6:D6:728:GLU:CD	22:T3:773:LYS:O	2.51	0.48
6:D6:808:ASN:O	6:D6:812:VAL:HG23	2.13	0.48
8:F1:1262:HIS:HD2	17:O2:259:ASP:OD1	1.83	0.48
11:I1:1063:GLN:O	16:N1:428:ASP:CG	2.50	0.48
11:I1:1663:LYS:CE	11:I2:1659:VAL:O	2.56	0.48
11:I2:797:LEU:CD1	17:O3:244:GLU:C	2.80	0.48
11:I2:1021:ILE:O	16:N3:406:HIS:CE1	2.67	0.48
11:I2:1067:PHE:CG	16:N3:429:GLU:C	2.86	0.48
17:O3:85:LYS:HD2	17:O3:94:ALA:HB2	1.96	0.48
18:P1:233:GLN:HB2	18:P1:236:GLN:NE2	2.28	0.48
21:S1:882:GLN:C	21:S1:884:ARG:H	2.15	0.48
21:S1:992:ILE:HG12	21:S1:992:ILE:O	2.13	0.48
21:S3:992:ILE:O	21:S3:992:ILE:HG12	2.13	0.48
21:S4:964:PHE:HE1	21:S4:1002:LEU:HD22	1.78	0.48
23:U1:349:SER:OG	23:U1:358:VAL:HG21	2.13	0.48
23:U3:379:ILE:HG13	23:U3:385:LEU:HD23	1.95	0.48
26:X1:64:LYS:HD3	27:Y1:324:ASP:HB3	1.95	0.48
26:X3:64:LYS:HD3	27:Y3:324:ASP:HB3	1.95	0.48
27:Y3:196:ARG:HH11	27:Y3:202:LEU:HD21	1.78	0.48
27:Y4:34:LYS:HG2	27:Y4:50:SER:HB2	1.95	0.48
27:Y4:67:GLU:OE1	27:Y4:119:ALA:HB1	2.12	0.48
27:Y4:196:ARG:HH11	27:Y4:202:LEU:HD21	1.78	0.48
28:Z3:967:PHE:HA	28:Z3:978:ALA:HB2	1.96	0.48
28:Z4:163:PRO:HA	28:Z4:178:LEU:HA	1.95	0.48
1:A1:1222:ALA:HA	2:A2:645:PHE:CZ	2.48	0.48
2:A2:978:ASP:O	6:D1:473:GLU:C	2.52	0.48
2:A2:1148:ARG:NH2	3:A5:171:HIS:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1189:LEU:CA	3:A6:645:PHE:HB2	2.43	0.48
1:A3:1224:PRO:C	3:A6:548:LEU:CD1	2.82	0.48
1:A3:1306:PRO:HB2	3:A6:715:GLU:CD	2.33	0.48
2:A4:555:VAL:N	3:A6:458:THR:OG1	2.33	0.48
2:A4:718:GLU:CB	3:A6:491:VAL:O	2.61	0.48
2:A4:779:ASP:CA	3:A6:487:ASP:N	2.75	0.48
2:A4:820:LYS:HB3	3:A6:148:GLY:N	2.15	0.48
2:A4:852:ASP:CG	3:A6:155:TYR:CA	2.81	0.48
3:A5:998:SER:C	11:I5:63:PRO:CD	2.81	0.48
3:A5:1026:PRO:O	11:I5:71:GLU:O	2.31	0.48
3:A6:442:ARG:CD	6:D3:692:LEU:CG	2.91	0.48
6:D5:808:ASN:O	6:D5:812:VAL:HG23	2.13	0.48
6:D7:610:ASN:O	6:D7:614:SER:N	2.43	0.48
8:F2:511:ALA:O	8:F2:1008:TYR:N	2.43	0.48
11:I1:884:LEU:HD12	17:O1:246:LEU:CD2	2.29	0.48
11:I1:922:ASP:CA	15:M1:592:LEU:HD23	2.34	0.48
11:I1:934:LEU:HD12	15:M1:599:ILE:C	2.31	0.48
11:I1:1013:GLU:OE1	11:I1:1013:GLU:N	2.41	0.48
11:I1:1021:ILE:CB	16:N1:406:HIS:CE1	2.96	0.48
11:I1:1041:GLN:CG	15:M1:616:LEU:CG	2.80	0.48
11:I1:1072:ASN:O	11:I1:1076:THR:HG22	2.13	0.48
11:I1:1083:GLU:OE1	11:I1:1083:GLU:N	2.42	0.48
11:I1:1112:SER:HB3	12:J1:241:THR:CB	2.43	0.48
11:I2:885:GLU:HA	16:N3:397:GLU:HA	1.95	0.48
11:I2:1069:SER:N	16:N3:429:GLU:N	2.62	0.48
11:I3:300:LEU:O	11:I3:300:LEU:HD23	2.14	0.48
11:I4:52:ASP:OD1	11:I4:53:THR:N	2.46	0.48
11:I4:301:GLN:N	11:I4:301:GLN:OE1	2.42	0.48
11:I5:52:ASP:OD1	11:I5:53:THR:N	2.46	0.48
21:S3:245:LEU:HD22	21:S3:304:GLU:CD	2.34	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:U2:254:ALA:O	24:V2:315:LYS:NZ	2.40	0.48
24:V1:152:ALA:HB3	25:W1:272:SER:OG	2.13	0.48
24:V1:523:THR:HA	24:V1:526:HIS:HB2	1.94	0.48
24:V2:173:ILE:HD12	24:V2:173:ILE:H	1.78	0.48
24:V3:483:GLU:OE2	24:V3:514:ARG:NH2	2.35	0.48
25:W1:18:ASP:OD1	25:W1:18:ASP:N	2.46	0.48
27:Y2:34:LYS:HG2	27:Y2:50:SER:HB2	1.95	0.48
27:Y3:34:LYS:HG2	27:Y3:50:SER:HB2	1.95	0.48
28:Z3:24:VAL:HG23	28:Z3:93:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:125:ASP:OD1	28:Z3:127:SER:OG	2.17	0.48
1:A1:1204:TRP:CD1	2:A2:672:ARG:CD	2.90	0.48
2:A2:876:ARG:NE	6:D1:559:ASP:H	2.11	0.48
2:A2:965:LYS:HG2	6:D1:196:ILE:O	2.01	0.48
2:A2:970:PHE:C	6:D1:202:GLN:HG2	2.26	0.48
2:A2:989:MSE:HE1	6:D1:240:ASP:CB	2.39	0.48
2:A2:1131:ILE:HA	3:A5:160:ILE:HG12	1.94	0.48
1:A3:1306:PRO:HB2	3:A6:715:GLU:CG	2.38	0.48
2:A4:85:VAL:O	3:A6:405:PHE:C	2.51	0.48
2:A4:87:GLN:HB2	3:A6:392:LEU:HA	1.95	0.48
2:A4:679:TYR:N	3:A6:101:TYR:C	2.61	0.48
2:A4:684:VAL:H	3:A6:405:PHE:HE2	1.62	0.48
2:A4:710:LEU:CD2	3:A6:479:VAL:N	2.66	0.48
2:A4:761:GLN:CG	3:A6:545:GLY:C	2.82	0.48
2:A4:804:GLN:OE1	3:A6:317:GLY:C	2.49	0.48
2:A4:871:ASN:O	2:A4:872:ALA:C	2.52	0.48
2:A4:905:MSE:HE3	3:A6:133:LYS:CE	2.44	0.48
3:A5:1155:ASN:HD21	5:C5:735:ILE:HG23	1.78	0.48
3:A5:1408:GLU:H	28:Z2:917:ASP:HA	1.77	0.48
3:A6:518:GLU:CB	6:D3:683:LYS:HD3	2.43	0.48
6:D3:619:LYS:HD3	11:I2:1518:VAL:N	2.26	0.48
8:F1:1266:MET:C	17:O2:265:ASN:ND2	2.67	0.48
11:I1:976:ARG:NH1	15:M1:622:VAL:HA	2.28	0.48
11:I1:976:ARG:C	20:R1:150:ASN:HB2	1.85	0.48
11:I2:978:LYS:HG2	20:R3:151:LYS:HD3	1.96	0.48
11:I2:1038:ILE:HD12	15:M3:617:THR:HG1	1.77	0.48
11:I2:1072:ASN:O	11:I2:1076:THR:HG22	2.13	0.48
11:I2:1425:TYR:OH	11:I2:1482:ASP:OD2	2.23	0.48
11:I3:1277:LEU:CB	26:X1:522:MET:CB	2.90	0.48
11:I4:300:LEU:O	11:I4:300:LEU:HD23	2.14	0.48
12:J3:240:GLY:O	12:J3:241:THR:OG1	2.28	0.48
18:P2:233:GLN:HB2	18:P2:236:GLN:NE2	2.28	0.48
21:S4:245:LEU:HD22	21:S4:304:GLU:CD	2.34	0.48
21:S4:1001:PHE:CD2	21:S4:1001:PHE:C	2.86	0.48
23:U4:210:MET:O	24:V4:325:TYR:OH	2.21	0.48
24:V1:182:ARG:HD2	24:V1:449:GLN:OE1	2.13	0.48
24:V2:317:GLY:O	24:V2:320:SER:HB3	2.13	0.48
25:W4:118:VAL:O	25:W4:125:VAL:HA	2.14	0.48
26:X2:262:ILE:HG12	26:X2:289:ILE:HG23	1.95	0.48
28:Z4:24:VAL:HG11	28:Z4:143:ASN:HA	1.95	0.48
28:Z4:160:VAL:HG23	28:Z4:161:ARG:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1203:TYR:HA	2:A2:732:GLN:HG3	1.09	0.48
1:A1:1224:PRO:HD2	2:A2:731:ILE:HG21	1.95	0.48
2:A2:780:GLU:N	6:D1:677:GLN:C	2.66	0.48
2:A2:1138:GLU:CB	3:A5:147:LEU:CG	2.84	0.48
1:A3:862:LEU:HD11	1:A3:904:GLN:CB	2.43	0.48
1:A3:1083:SER:O	6:D3:797:GLY:C	2.51	0.48
1:A3:1201:ARG:CG	2:A4:728:LYS:C	2.52	0.48
1:A3:1270:SER:HB3	3:A6:709:LYS:HZ3	0.70	0.48
2:A4:552:PHE:N	3:A6:108:SER:N	2.55	0.48
2:A4:555:VAL:CA	3:A6:456:ASP:OD1	2.60	0.48
2:A4:718:GLU:CG	3:A6:491:VAL:HG12	2.43	0.48
2:A4:873:PRO:HG2	6:D3:568:ARG:O	2.14	0.48
2:A4:946:LYS:HA	4:B6:348:PRO:HG2	0.59	0.48
2:A4:982:THR:CA	6:D3:502:LEU:CD2	2.71	0.48
3:A5:919:LEU:HB3	11:I5:61:LYS:HZ3	1.79	0.48
3:A5:1160:GLN:HB2	5:C5:743:LEU:HD22	1.95	0.48
6:D1:333:ALA:O	6:D1:337:VAL:HG23	2.14	0.48
6:D4:615:VAL:HG23	6:D4:616:ALA:N	2.29	0.48
6:D6:333:ALA:O	6:D6:337:VAL:HG23	2.14	0.48
11:I1:797:LEU:HB3	17:O1:245:GLU:OE2	2.13	0.48
11:I1:849:LEU:CD2	17:O1:251:ILE:HD11	2.34	0.48
11:I1:885:GLU:CA	16:N1:397:GLU:OE2	2.36	0.48
11:I1:1015:TYR:OH	11:I1:1089:TYR:O	2.31	0.48
11:I1:1055:GLU:N	17:O1:279:ILE:N	2.23	0.48
11:I2:876:ALA:HB1	17:O3:251:ILE:HG12	1.28	0.48
11:I2:917:TYR:CG	15:M3:587:GLU:O	2.50	0.48
11:I2:930:LEU:CD2	15:M3:597:LYS:O	2.49	0.48
11:I2:990:GLU:H	15:M3:614:ASP:HB3	1.79	0.48
11:I2:1037:THR:OG1	15:M3:624:ASN:ND2	2.45	0.48
11:I3:702:GLN:OE1	11:I3:702:GLN:N	2.41	0.48
11:I3:1112:SER:HB3	12:J3:241:THR:CB	2.43	0.48
11:I5:300:LEU:O	11:I5:300:LEU:HD23	2.14	0.48
17:O2:85:LYS:HD2	17:O2:94:ALA:HB2	1.96	0.48
17:O4:112:GLY:O	18:P4:325:ILE:CD1	2.56	0.48
19:Q2:208:GLY:HA3	19:Q2:210:TRP:CZ3	2.48	0.48
21:S1:418:TYR:N	21:S1:418:TYR:CD1	2.81	0.48
21:S1:1001:PHE:CD2	21:S1:1001:PHE:C	2.86	0.48
21:S1:1075:CYS:HA	21:S1:1078:LEU:HD12	1.96	0.48
21:S2:245:LEU:HD22	21:S2:304:GLU:CD	2.34	0.48
21:S2:1075:CYS:HA	21:S2:1078:LEU:HD12	1.96	0.48
23:U2:207:SER:HG	24:V2:359:TYR:HH	1.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:152:ALA:HB3	25:W2:272:SER:OG	2.13	0.48
24:V4:317:GLY:O	24:V4:320:SER:HB3	2.13	0.48
25:W2:181:LEU:HD23	25:W2:201:GLU:HG2	1.95	0.48
26:X4:64:LYS:HD3	27:Y4:324:ASP:HB3	1.95	0.48
27:Y1:312:TRP:CZ3	27:Y1:319:LEU:HB2	2.48	0.48
2:A2:978:ASP:O	6:D1:476:VAL:HB	2.13	0.48
2:A2:978:ASP:N	6:D1:492:VAL:HG12	2.23	0.48
2:A2:1155:ASN:HD22	3:A5:177:ILE:CG1	2.18	0.48
2:A2:1157:TYR:CZ	3:A5:167:TRP:NE1	2.77	0.48
1:A3:1055:ARG:NH2	1:A3:1058:GLU:OE1	2.47	0.48
1:A3:1259:CYS:HG	3:A6:624:ASP:CA	1.92	0.48
2:A4:727:ASN:OD1	3:A6:605:TYR:HB3	2.14	0.48
2:A4:757:LEU:O	3:A6:544:PHE:HD2	1.92	0.48
2:A4:803:GLU:HG3	3:A6:382:SER:O	2.12	0.48
2:A4:888:GLN:O	3:A6:171:HIS:CD2	2.66	0.48
3:A5:996:ASN:ND2	11:I5:58:ALA:HB2	2.11	0.48
3:A5:1026:PRO:CD	11:I5:102:ILE:HD13	2.17	0.48
3:A6:444:ARG:CZ	6:D3:733:ALA:HA	2.43	0.48
6:D2:615:VAL:HG23	6:D2:616:ALA:N	2.29	0.48
6:D5:594:LYS:HZ3	24:V2:255:GLN:NE2	2.08	0.48
6:D7:333:ALA:O	6:D7:337:VAL:HG23	2.13	0.48
6:D7:531:LEU:CA	11:I3:181:GLN:CB	2.64	0.48
8:F1:1001:ILE:O	8:F1:1001:ILE:HD12	2.14	0.48
8:F2:1001:ILE:HD12	8:F2:1001:ILE:O	2.14	0.48
11:I1:895:ARG:NH2	17:O1:233:THR:HG21	2.25	0.48
11:I1:1048:GLU:C	15:M1:622:VAL:HG11	2.34	0.48
11:I1:1607:GLN:HB2	11:I2:1739:GLU:HA	1.89	0.48
11:I2:877:ILE:C	17:O3:253:LEU:N	2.67	0.48
11:I2:928:LEU:HD11	20:R3:151:LYS:CE	2.32	0.48
11:I2:947:LEU:CD2	17:O3:256:TYR:CZ	2.91	0.48
11:I2:950:LEU:CD2	15:M3:606:LEU:CD2	2.92	0.48
11:I3:301:GLN:N	11:I3:301:GLN:OE1	2.42	0.48
11:I3:1274:HIS:CB	26:X1:534:ILE:CG2	2.92	0.48
11:I5:288:ILE:O	11:I5:292:GLY:N	2.46	0.48
21:S1:123:LEU:HD22	21:S1:125:ILE:HG13	1.96	0.48
21:S3:1070:LYS:HZ3	21:S3:1121:GLU:HB3	1.79	0.48
24:V1:431:ASN:HB2	24:V1:434:LYS:HB3	1.96	0.48
24:V3:173:ILE:HD12	24:V3:173:ILE:H	1.78	0.48
24:V3:431:ASN:HB2	24:V3:434:LYS:HB3	1.96	0.48
25:W3:181:LEU:HD23	25:W3:201:GLU:HG2	1.95	0.48
26:X2:228:PHE:HE2	26:X2:267:ARG:HB3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:223:TYR:HA	26:X3:226:GLN:HB2	1.96	0.48
28:Z2:24:VAL:HG23	28:Z2:93:ILE:HG23	1.95	0.48
28:Z3:24:VAL:HG11	28:Z3:143:ASN:HA	1.95	0.48
28:Z3:163:PRO:HA	28:Z3:178:LEU:HA	1.95	0.48
28:Z4:24:VAL:HG23	28:Z4:93:ILE:HG23	1.96	0.48
1:A1:1225:PRO:O	2:A2:728:LYS:CA	2.62	0.48
1:A1:1393:THR:HA	2:A2:851:ASP:OD1	2.13	0.48
2:A2:867:GLU:CA	6:D1:598:ILE:CG2	2.91	0.48
2:A2:870:HIS:HB3	6:D1:548:LEU:CD2	2.43	0.48
2:A2:943:ASP:OD2	3:A5:589:ALA:CB	2.62	0.48
1:A3:1220:PRO:O	2:A4:672:ARG:CD	2.62	0.48
1:A3:1260:ALA:HB3	3:A6:719:ARG:NE	2.22	0.48
1:A3:1280:GLN:OE1	3:A6:125:VAL:CG2	2.61	0.48
2:A4:198:VAL:O	4:B4:353:LEU:CB	2.58	0.48
2:A4:813:GLU:HG3	3:A6:190:ALA:HB1	1.95	0.48
2:A4:825:ARG:HH12	3:A6:564:ASN:ND2	2.11	0.48
2:A4:864:ARG:CA	6:D3:608:ILE:HG12	2.29	0.48
2:A4:978:ASP:H	6:D3:492:VAL:HG11	1.79	0.48
3:A5:1379:GLY:O	28:Z2:814:THR:N	2.45	0.48
3:A5:1395:LYS:HG3	28:Z2:873:LEU:N	2.19	0.48
3:A6:171:HIS:HD1	3:A6:173:ASN:H	1.60	0.48
3:A6:1151:THR:HA	5:C6:733:LEU:HD11	1.80	0.48
9:G1:260:THR:CG2	17:O2:259:ASP:CB	2.92	0.48
11:I1:916:ALA:HB3	15:M1:586:ASP:OD1	2.06	0.48
11:I1:1017:VAL:CG2	17:O1:260:LEU:CD2	2.91	0.48
11:I1:1035:GLN:C	15:M1:623:LEU:O	2.52	0.48
11:I1:1046:HIS:N	17:O1:283:ALA:HB3	2.29	0.48
11:I2:882:LYS:C	17:O3:245:GLU:O	2.53	0.48
11:I2:965:ALA:HB3	20:R3:165:SER:N	2.28	0.48
11:I2:1037:THR:N	15:M3:623:LEU:CD2	2.60	0.48
11:I2:1046:HIS:N	17:O3:280:GLU:C	2.65	0.48
11:I2:1066:LEU:O	16:N3:429:GLU:N	2.46	0.48
11:I2:1112:SER:HB3	12:J2:241:THR:CB	2.43	0.48
11:I3:1267:LEU:CD2	26:X1:497:ARG:NH1	2.32	0.48
21:S3:1001:PHE:CD2	21:S3:1001:PHE:C	2.87	0.48
21:S3:1075:CYS:HA	21:S3:1078:LEU:HD12	1.96	0.48
22:T2:828:TRP:O	22:T2:850:ARG:HD2	2.13	0.48
23:U1:379:ILE:HG13	23:U1:385:LEU:HD23	1.94	0.48
24:V4:173:ILE:HD12	24:V4:173:ILE:H	1.78	0.48
25:W4:38:VAL:O	25:W4:39:GLU:HG3	2.14	0.48
26:X1:223:TYR:HA	26:X1:226:GLN:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:223:TYR:HA	26:X2:226:GLN:HB2	1.96	0.48
26:X3:262:ILE:HG12	26:X3:289:ILE:HG23	1.95	0.48
27:Y2:77:TYR:HA	27:Y2:110:SER:HB3	1.95	0.48
28:Z2:160:VAL:HG23	28:Z2:161:ARG:H	1.79	0.48
28:Z3:160:VAL:HG23	28:Z3:161:ARG:H	1.79	0.48
2:A2:782:VAL:N	6:D1:677:GLN:CA	2.76	0.48
2:A2:978:ASP:N	6:D1:496:LEU:HD12	2.26	0.48
2:A2:1137:ALA:HB1	3:A5:564:ASN:C	2.34	0.48
2:A2:1150:LEU:CG	5:C2:731:LYS:HA	2.41	0.48
1:A3:780:GLU:HG3	1:A3:822:ILE:CG2	2.43	0.48
1:A3:1054:SER:CB	6:D3:809:ALA:C	2.80	0.48
2:A4:717:VAL:HA	3:A6:512:GLU:CG	2.42	0.48
2:A4:858:ALA:HB2	3:A6:174:PRO:O	2.11	0.48
2:A4:880:ALA:N	6:D3:564:ASN:HB2	2.27	0.48
2:A4:1160:GLN:HB3	5:C4:743:LEU:HD22	1.95	0.48
3:A6:484:PRO:CG	6:D3:672:GLU:CD	2.68	0.48
3:A6:1155:ASN:HD21	5:C6:735:ILE:HG23	1.79	0.48
8:F1:1568:GLN:HA	8:F1:1571:VAL:HG22	1.96	0.48
8:F2:1713:LEU:HD12	8:F2:1714:LEU:N	2.29	0.48
9:G1:257:THR:O	16:N2:404:GLU:HG2	2.14	0.48
11:I1:1066:LEU:N	16:N1:430:ARG:NE	2.55	0.48
11:I2:52:ASP:OD1	11:I2:53:THR:N	2.46	0.48
11:I2:797:LEU:CD1	17:O3:245:GLU:N	2.75	0.48
11:I2:922:ASP:H	15:M3:592:LEU:HG	1.79	0.48
11:I2:922:ASP:C	15:M3:589:GLY:O	2.53	0.48
11:I2:1046:HIS:HB2	17:O3:280:GLU:HB3	1.96	0.48
11:I2:1055:GLU:O	17:O3:278:GLU:HB2	2.13	0.48
15:M4:495:TRP:CG	16:N4:280:LEU:HD13	2.48	0.48
17:O4:109:PRO:CD	18:P4:318:PRO:HB3	2.44	0.48
21:S1:668:ILE:O	21:S2:1146:ALA:HB1	2.05	0.48
21:S2:934:HIS:C	21:S2:936:SER:H	2.18	0.48
22:T2:781:THR:HG23	22:T2:784:GLU:H	1.78	0.48
23:U1:254:ALA:O	24:V1:315:LYS:NZ	2.40	0.48
26:X4:223:TYR:HA	26:X4:226:GLN:HB2	1.96	0.48
28:Z1:160:VAL:HG23	28:Z1:161:ARG:H	1.79	0.48
28:Z1:163:PRO:HA	28:Z1:178:LEU:HA	1.95	0.48
28:Z2:53:GLY:HA2	28:Z2:73:SER:HA	1.94	0.48
28:Z3:233:TYR:CG	28:Z3:311:LEU:HD22	2.49	0.48
1:A1:878:LEU:CD1	6:D3:276:GLY:HA2	2.40	0.47
1:A1:1332:ARG:CZ	6:D1:636:ASP:OD1	2.61	0.47
2:A2:780:GLU:N	6:D1:678:GLY:CA	2.71	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1396:GLY:CA	2:A4:888:GLN:HB3	2.37	0.47
2:A4:86:ASN:CA	3:A6:393:HIS:H	2.26	0.47
2:A4:713:ILE:N	3:A6:462:LEU:CD1	2.40	0.47
2:A4:757:LEU:CD1	3:A6:543:GLY:C	2.73	0.47
2:A4:978:ASP:CA	6:D3:475:ALA:HB3	2.43	0.47
3:A5:164:LEU:HG	5:C2:741:THR:O	2.14	0.47
3:A5:862:LEU:HD11	3:A5:904:GLN:HB3	1.95	0.47
6:D5:615:VAL:HG23	6:D5:616:ALA:N	2.29	0.47
6:D6:800:PRO:HB3	22:T3:765:LYS:CA	2.41	0.47
6:D7:176:SER:HB3	11:I3:95:LYS:HE2	1.95	0.47
11:I1:800:PHE:HZ	17:O1:238:ALA:HB2	1.72	0.47
11:I1:850:ILE:HG12	15:M1:594:LYS:CG	2.44	0.47
11:I1:924:ILE:HD13	15:M1:595:MET:SD	2.47	0.47
11:I1:980:ILE:HA	15:M1:617:THR:C	2.26	0.47
11:I1:1043:LEU:HA	16:N1:430:ARG:CG	2.44	0.47
11:I1:1065:SER:OG	16:N1:430:ARG:CD	2.61	0.47
11:I2:797:LEU:CD1	17:O3:248:SER:OG	2.55	0.47
11:I2:1034:ASP:HB3	16:N3:444:SER:OG	2.14	0.47
11:I2:1043:LEU:CD1	16:N3:434:LEU:N	2.77	0.47
11:I2:1054:ILE:H	17:O3:282:LYS:H	0.48	0.47
11:I3:1267:LEU:HA	26:X1:529:TRP:CA	2.42	0.47
11:I4:819:MET:HE2	26:X3:502:MET:CA	2.44	0.47
11:I5:130:LYS:NZ	11:I5:237:GLU:OE1	2.45	0.47
21:S1:671:ALA:HB3	21:S2:1143:VAL:HA	1.96	0.47
21:S3:934:HIS:C	21:S3:936:SER:H	2.18	0.47
21:S4:882:GLN:C	21:S4:884:ARG:H	2.16	0.47
22:T3:781:THR:HG23	22:T3:784:GLU:H	1.78	0.47
24:V1:526:HIS:C	24:V1:528:LEU:N	2.68	0.47
24:V2:270:THR:OG1	24:V2:391:CYS:SG	2.72	0.47
24:V4:152:ALA:HB3	25:W4:272:SER:OG	2.13	0.47
24:V4:173:ILE:HD11	25:W4:43:HIS:CD2	2.49	0.47
25:W1:12:ILE:HA	25:W1:28:SER:HA	1.96	0.47
25:W1:38:VAL:O	25:W1:39:GLU:HG3	2.14	0.47
25:W3:229:ARG:HB2	25:W3:229:ARG:HH11	1.78	0.47
28:Z1:233:TYR:CG	28:Z1:311:LEU:HD22	2.49	0.47
28:Z4:160:VAL:HG23	28:Z4:161:ARG:N	2.29	0.47
2:A2:965:LYS:CA	6:D1:199:GLY:CA	2.77	0.47
2:A2:980:ARG:HE	6:D1:525:ARG:C	2.17	0.47
1:A3:1091:VAL:CB	6:D3:803:THR:O	2.51	0.47
1:A3:1196:GLU:HG3	3:A6:611:ILE:HB	1.96	0.47
1:A3:1220:PRO:CB	2:A4:646:ILE:HG23	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:762:LYS:CE	3:A6:533:ALA:O	2.62	0.47
2:A4:906:ILE:CG2	2:A4:965:LYS:HG2	2.44	0.47
2:A4:968:SER:CB	6:D3:201:LEU:CA	2.93	0.47
3:A6:484:PRO:CB	6:D3:672:GLU:CG	2.87	0.47
3:A6:485:ASN:CA	6:D3:676:ALA:H	2.24	0.47
6:D2:333:ALA:O	6:D2:337:VAL:HG23	2.13	0.47
6:D6:615:VAL:HG23	6:D6:616:ALA:N	2.29	0.47
6:D7:639:LEU:HD22	6:D7:689:PHE:CD2	2.50	0.47
8:F1:1775:VAL:O	8:F1:1776:THR:HG22	2.15	0.47
11:I1:52:ASP:OD1	11:I1:53:THR:N	2.46	0.47
11:I1:880:MET:HE3	17:O1:254:ARG:NH1	2.29	0.47
11:I1:978:LYS:HE3	20:R1:154:ALA:C	1.88	0.47
11:I1:1036:PRO:O	20:R1:173:LEU:HD21	2.12	0.47
11:I1:1671:LEU:CD1	11:I2:1675:VAL:HG23	2.44	0.47
11:I2:915:ALA:HB3	15:M3:582:THR:O	2.14	0.47
11:I2:1016:ARG:HB3	16:N3:408:MET:O	2.14	0.47
11:I2:1037:THR:HG21	20:R3:170:LEU:H	1.79	0.47
11:I2:1105:TRP:CE3	16:N3:432:TYR:OH	2.64	0.47
17:O2:110:LEU:HD13	18:P2:321:ILE:HG21	1.36	0.47
17:O4:85:LYS:HD2	17:O4:94:ALA:HB2	1.96	0.47
21:S2:176:MET:CE	21:S2:232:LEU:HD13	2.43	0.47
21:S4:123:LEU:HD22	21:S4:125:ILE:HG13	1.96	0.47
22:T3:828:TRP:O	22:T3:850:ARG:HD2	2.13	0.47
24:V1:270:THR:OG1	24:V1:391:CYS:SG	2.72	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:V4:270:THR:OG1	24:V4:391:CYS:SG	2.72	0.47
26:X3:392:GLN:HB3	26:X3:393:PRO:HD3	1.96	0.47
27:Y4:159:ILE:O	27:Y4:161:PRO:HD3	2.15	0.47
27:Y4:311:SER:O	27:Y4:319:LEU:HD12	2.13	0.47
28:Z3:4:LEU:HB2	28:Z3:381:SER:HB2	1.96	0.47
2:A2:872:ALA:CA	6:D1:568:ARG:H	2.21	0.47
2:A2:906:ILE:CG2	2:A2:965:LYS:HG2	2.44	0.47
1:A3:1162:ASN:O	3:A6:648:TYR:C	2.47	0.47
1:A3:1230:TYR:O	3:A6:575:LEU:O	2.32	0.47
2:A4:90:GLN:HG3	3:A6:428:GLN:O	2.10	0.47
2:A4:757:LEU:HG	3:A6:544:PHE:H	1.79	0.47
2:A4:781:ARG:NH1	3:A6:522:GLY:HA2	2.29	0.47
2:A4:781:ARG:HE	6:D3:673:ARG:NH1	2.09	0.47
2:A4:871:ASN:N	6:D3:566:PHE:O	2.47	0.47
2:A4:910:TYR:CD1	6:D3:564:ASN:ND2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1392:ARG:HH11	28:Z2:866:GLU:CA	2.27	0.47
3:A6:518:GLU:HB3	6:D3:687:SER:N	2.29	0.47
5:C1:732:LYS:CE	11:I1:1228:GLU:CB	2.89	0.47
6:D2:639:LEU:HD22	6:D2:689:PHE:CD2	2.50	0.47
11:I1:881:ILE:CB	17:O1:249:ARG:C	2.82	0.47
11:I1:919:ALA:HB1	16:N1:393:ILE:HG13	1.95	0.47
11:I1:939:ASN:HB3	17:O1:265:ASN:ND2	2.28	0.47
11:I1:1036:PRO:HA	16:N1:441:PHE:CE2	2.49	0.47
11:I1:1049:LEU:O	17:O1:291:ASP:CB	2.62	0.47
11:I2:976:ARG:HB3	20:R3:149:ARG:CA	2.40	0.47
11:I2:1040:HIS:HB3	16:N3:434:LEU:HD11	1.89	0.47
19:Q4:208:GLY:HA3	19:Q4:210:TRP:CZ3	2.48	0.47
21:S1:964:PHE:HE1	21:S1:1002:LEU:HD22	1.78	0.47
21:S3:123:LEU:HD22	21:S3:125:ILE:HG13	1.96	0.47
22:T4:781:THR:HG23	22:T4:784:GLU:H	1.78	0.47
23:U3:254:ALA:O	24:V3:315:LYS:NZ	2.40	0.47
23:U3:320:HIS:HE1	24:V4:641:MET:HA	1.79	0.47
24:V1:173:ILE:HD12	24:V1:173:ILE:H	1.78	0.47
25:W2:118:VAL:O	25:W2:125:VAL:HA	2.14	0.47
25:W3:118:VAL:O	25:W3:125:VAL:HA	2.14	0.47
26:X1:159:ILE:HG12	26:X1:175:LEU:CB	2.39	0.47
26:X2:306:TRP:O	26:X2:310:VAL:HG23	2.12	0.47
26:X4:392:GLN:HB3	26:X4:393:PRO:HD3	1.96	0.47
27:Y1:219:SER:HG	27:Y1:312:TRP:HD1	1.59	0.47
27:Y2:196:ARG:HH11	27:Y2:202:LEU:HD21	1.78	0.47
28:Z4:233:TYR:CG	28:Z4:311:LEU:HD22	2.49	0.47
1:A1:1223:GLU:CG	2:A2:724:LEU:HB3	2.41	0.47
1:A1:1224:PRO:HD2	2:A2:731:ILE:CG2	2.43	0.47
1:A1:1392:ARG:HD3	2:A2:891:GLY:HA3	1.97	0.47
2:A2:823:VAL:HA	2:A2:856:PHE:CZ	2.28	0.47
2:A2:870:HIS:CE1	6:D1:551:PHE:HB3	2.34	0.47
2:A2:1131:ILE:HG23	3:A5:160:ILE:HG12	1.95	0.47
2:A2:1151:THR:C	5:C2:733:LEU:HD12	2.33	0.47
1:A3:1021:LEU:CD1	6:D3:819:ASN:CB	2.90	0.47
1:A3:1186:TRP:O	3:A6:641:ALA:HB1	2.12	0.47
1:A3:1187:ASN:OD1	3:A6:619:CYS:N	2.47	0.47
1:A3:1192:GLN:HA	3:A6:645:PHE:HE2	1.80	0.47
1:A3:1221:ILE:CD1	2:A4:642:ARG:CA	2.92	0.47
1:A3:1281:LEU:CD1	3:A6:577:ASP:CA	2.89	0.47
2:A4:682:ARG:NH2	3:A6:105:GLY:C	2.39	0.47
2:A4:753:GLU:HB3	3:A6:93:ASP:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:780:GLU:HB2	3:A6:524:ARG:CA	2.37	0.47
2:A4:781:ARG:CD	6:D3:633:LYS:HE2	2.43	0.47
2:A4:806:PHE:CG	3:A6:470:ARG:CB	2.96	0.47
2:A4:975:GLU:HB2	6:D3:501:LEU:CD1	2.08	0.47
3:A5:164:LEU:N	5:C2:743:LEU:HB3	2.18	0.47
3:A5:994:VAL:O	11:I5:61:LYS:CG	2.62	0.47
3:A5:1381:ALA:CA	28:Z2:810:ASP:HA	2.44	0.47
3:A5:1416:ARG:O	28:Z2:966:CYS:CB	2.63	0.47
3:A6:483:HIS:C	6:D3:675:ARG:HB2	2.35	0.47
3:A6:486:GLN:HB2	6:D3:671:ALA:O	2.14	0.47
6:D5:639:LEU:HD22	6:D5:689:PHE:CD2	2.50	0.47
11:I1:947:LEU:CG	17:O1:256:TYR:CZ	2.97	0.47
11:I1:991:THR:N	15:M1:608:LYS:CG	2.78	0.47
11:I1:1187:SER:N	17:O2:221:ASP:OD2	2.47	0.47
11:I1:1668:HIS:CD2	11:I2:1665:LEU:O	2.51	0.47
11:I2:948:ALA:HB2	17:O3:256:TYR:HB2	1.76	0.47
11:I2:948:ALA:HB3	17:O3:256:TYR:C	2.32	0.47
11:I2:957:SER:CB	20:R3:168:LEU:N	2.68	0.47
11:I2:980:ILE:CG2	15:M3:622:VAL:H	2.28	0.47
11:I2:1000:ILE:HA	16:N3:413:VAL:HG11	1.96	0.47
11:I2:1054:ILE:C	17:O3:281:ALA:CA	2.82	0.47
11:I2:1113:LEU:CD2	17:O3:282:LYS:HZ1	2.26	0.47
11:I3:656:MET:O	11:I3:659:LYS:NZ	2.45	0.47
11:I3:1275:SER:CB	26:X1:522:MET:C	2.54	0.47
11:I3:1366:ARG:HD2	12:J3:256:GLN:NE2	2.30	0.47
15:M2:495:TRP:CG	16:N2:280:LEU:HD13	2.48	0.47
24:V1:397:GLU:OE1	24:V1:397:GLU:N	2.40	0.47
24:V3:173:ILE:HD11	25:W3:43:HIS:CD2	2.50	0.47
24:V4:431:ASN:HB2	24:V4:434:LYS:HB3	1.96	0.47
25:W1:12:ILE:HG23	25:W1:27:CYS:O	2.15	0.47
25:W3:38:VAL:O	25:W3:39:GLU:HG3	2.14	0.47
25:W4:12:ILE:HA	25:W4:28:SER:HA	1.96	0.47
27:Y3:236:LYS:HG3	27:Y3:306:GLU:OE1	2.15	0.47
27:Y4:236:LYS:HG3	27:Y4:306:GLU:OE1	2.15	0.47
28:Z2:160:VAL:HG23	28:Z2:161:ARG:N	2.28	0.47
28:Z2:233:TYR:CG	28:Z2:311:LEU:HD22	2.49	0.47
1:A1:874:VAL:CG1	6:D3:272:VAL:C	2.69	0.47
1:A1:1402:ASP:N	2:A2:884:ARG:HH11	2.09	0.47
2:A2:1139:ILE:HB	3:A5:135:PHE:CD1	2.50	0.47
1:A3:1163:TYR:CA	3:A6:647:GLU:CB	2.92	0.47
1:A3:1236:GLN:HG2	3:A6:573:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1306:PRO:CA	3:A6:715:GLU:CG	2.92	0.47
1:A3:1393:THR:OG1	3:A6:228:GLY:CA	2.63	0.47
2:A4:555:VAL:O	3:A6:457:LYS:HG2	2.15	0.47
2:A4:768:SER:CA	3:A6:477:PHE:CA	2.92	0.47
2:A4:775:LEU:HD11	3:A6:490:PHE:H	1.31	0.47
2:A4:776:MET:SD	3:A6:524:ARG:O	2.73	0.47
2:A4:854:VAL:HB	3:A6:171:HIS:HB3	1.06	0.47
2:A4:879:LEU:HG	6:D3:567:LEU:CD1	2.44	0.47
2:A4:892:SER:CA	3:A6:232:LEU:CB	2.89	0.47
3:A5:1026:PRO:CA	11:I5:68:ILE:H	2.19	0.47
3:A5:1026:PRO:N	11:I5:66:LEU:CG	2.76	0.47
3:A5:1046:LEU:CD1	11:I5:70:GLU:N	2.78	0.47
6:D1:639:LEU:HD22	6:D1:689:PHE:CD2	2.50	0.47
8:F2:1568:GLN:HA	8:F2:1571:VAL:HG22	1.96	0.47
11:I2:922:ASP:CG	15:M3:589:GLY:O	2.52	0.47
11:I2:1051:LYS:C	17:O3:284:LYS:O	2.52	0.47
11:I2:1061:ASP:CG	17:O3:278:GLU:CB	2.82	0.47
11:I2:1366:ARG:HD2	12:J2:256:GLN:NE2	2.30	0.47
21:S1:684:THR:CB	21:S2:1144:LEU:O	2.62	0.47
21:S2:1015:GLU:CD	21:S2:1041:ARG:HH21	2.18	0.47
22:T1:781:THR:HG23	22:T1:784:GLU:H	1.78	0.47
24:V1:151:PHE:HB2	25:W1:259:ARG:NH1	2.30	0.47
24:V4:526:HIS:C	24:V4:528:LEU:N	2.68	0.47
25:W1:118:VAL:O	25:W1:125:VAL:HA	2.14	0.47
25:W2:38:VAL:O	25:W2:39:GLU:HG3	2.14	0.47
27:Y3:311:SER:O	27:Y3:319:LEU:HD12	2.13	0.47
28:Z1:24:VAL:HG23	28:Z1:93:ILE:HG23	1.96	0.47
1:A1:862:LEU:HD11	1:A1:904:GLN:CB	2.43	0.47
1:A1:1223:GLU:OE1	2:A2:761:GLN:OE1	2.31	0.47
2:A2:1019:ARG:NH2	6:D1:237:PRO:O	2.47	0.47
1:A3:1098:ARG:C	11:I2:1414:CYS:SG	2.92	0.47
1:A3:1169:LEU:HB3	3:A6:593:ALA:CB	2.43	0.47
1:A3:1204:TRP:HB2	3:A6:500:LYS:HG3	1.97	0.47
1:A3:1238:ILE:C	3:A6:584:GLY:N	2.57	0.47
2:A4:682:ARG:HE	3:A6:105:GLY:C	2.07	0.47
2:A4:706:PRO:O	3:A6:462:LEU:HD23	2.14	0.47
2:A4:719:ARG:HG2	3:A6:514:GLY:N	2.25	0.47
2:A4:769:GLU:HG3	3:A6:477:PHE:CZ	2.49	0.47
2:A4:800:LEU:HD22	3:A6:319:TYR:HH	1.78	0.47
3:A5:996:ASN:HB3	11:I5:55:ASP:O	2.15	0.47
3:A6:1160:GLN:HB2	5:C6:743:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D2:610:ASN:O	6:D2:614:SER:N	2.43	0.47
8:F1:1713:LEU:HD12	8:F1:1714:LEU:N	2.29	0.47
11:I1:933:ASP:N	15:M1:601:ASP:O	2.48	0.47
11:I1:963:LEU:CA	20:R1:165:SER:OG	2.61	0.47
11:I1:980:ILE:HD11	20:R1:147:LEU:HA	1.95	0.47
11:I1:1031:ALA:HB3	20:R1:168:LEU:HD22	1.96	0.47
11:I1:1425:TYR:OH	11:I1:1482:ASP:OD2	2.23	0.47
11:I2:891:LEU:CA	17:O3:239:GLN:CB	2.86	0.47
11:I2:966:TRP:HE3	20:R3:167:GLN:HB3	1.63	0.47
11:I4:813:ILE:O	26:X3:496:THR:CB	2.62	0.47
22:T4:828:TRP:O	22:T4:850:ARG:HD2	2.13	0.47
23:U1:431:ILE:HD12	23:U1:431:ILE:N	2.30	0.47
24:V1:492:LEU:HD12	24:V1:508:ILE:HD13	1.97	0.47
24:V3:492:LEU:HD12	24:V3:508:ILE:HD13	1.96	0.47
25:W2:227:GLN:OE1	25:W2:256:VAL:HG11	2.15	0.47
25:W3:12:ILE:HG23	25:W3:27:CYS:O	2.15	0.47
26:X1:152:LEU:HD22	26:X1:179:LEU:HD12	1.97	0.47
27:Y1:196:ARG:HH11	27:Y1:202:LEU:HD21	1.78	0.47
27:Y2:159:ILE:O	27:Y2:161:PRO:HD3	2.15	0.47
1:A1:830:GLY:O	6:D3:298:ASN:ND2	2.48	0.47
1:A1:1204:TRP:HE3	2:A2:734:LEU:CD1	2.08	0.47
2:A2:227:SER:CB	6:D1:712:ASP:H	2.21	0.47
2:A2:926:ASP:OD1	2:A2:929:ASN:N	2.48	0.47
2:A2:977:VAL:CG2	6:D1:491:HIS:C	2.82	0.47
2:A2:1142:PHE:HE2	3:A5:567:VAL:CB	1.91	0.47
2:A2:1277:TRP:N	2:A2:1278:PRO:CD	2.78	0.47
1:A3:1021:LEU:HD11	6:D3:819:ASN:HB2	1.92	0.47
1:A3:1036:ALA:HB1	1:A3:1043:ALA:HB2	1.95	0.47
1:A3:1169:LEU:HB2	3:A6:594:LEU:H	0.97	0.47
1:A3:1183:LEU:C	3:A6:639:ASN:HA	2.34	0.47
1:A3:1228:TYR:CD1	3:A6:551:GLN:O	2.68	0.47
1:A3:1239:ALA:N	3:A6:583:LEU:C	2.53	0.47
1:A3:1245:ASP:CB	3:A6:587:VAL:HG12	2.25	0.47
1:A3:1256:PRO:O	3:A6:719:ARG:NH2	2.48	0.47
1:A3:1306:PRO:HB3	3:A6:715:GLU:CA	2.44	0.47
1:A3:1306:PRO:HD3	3:A6:719:ARG:CG	2.44	0.47
2:A4:93:ASP:HB3	3:A6:361:ASP:OD1	2.12	0.47
2:A4:540:GLN:NE2	3:A6:357:SER:O	2.48	0.47
2:A4:648:TYR:O	3:A6:505:ALA:CA	2.62	0.47
2:A4:691:LYS:HG3	3:A6:316:ARG:NE	2.14	0.47
2:A4:702:SER:HB3	3:A6:379:VAL:HG13	1.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:720:LEU:HA	3:A6:495:ASP:CB	2.44	0.47
2:A4:825:ARG:NH1	3:A6:564:ASN:ND2	2.62	0.47
2:A4:876:ARG:CG	6:D3:557:GLU:O	2.63	0.47
2:A4:897:ASN:HB2	3:A6:177:ILE:O	2.15	0.47
2:A4:968:SER:CB	6:D3:201:LEU:HA	2.45	0.47
2:A4:974:PRO:CA	6:D3:499:LEU:HD11	2.25	0.47
2:A4:1341:ALA:O	2:A4:1342:SER:CB	2.63	0.47
3:A5:186:ILE:O	5:C2:745:SER:CA	2.52	0.47
3:A5:186:ILE:HD12	5:C2:744:PHE:C	2.34	0.47
3:A5:186:ILE:C	5:C2:745:SER:HA	2.32	0.47
3:A5:993:ASN:O	11:I5:57:GLU:CA	2.63	0.47
3:A5:994:VAL:N	11:I5:57:GLU:HG3	2.23	0.47
3:A5:999:SER:CA	11:I5:63:PRO:CD	2.93	0.47
3:A5:1019:ARG:HG2	11:I5:54:LYS:HD2	0.86	0.47
3:A5:1053:ARG:HH11	11:I5:99:ARG:HB2	1.79	0.47
3:A5:1098:ARG:HD3	11:I5:29:GLN:HG3	1.95	0.47
3:A5:1369:ILE:HD11	28:Z2:831:LEU:C	2.34	0.47
3:A6:442:ARG:HE	6:D3:692:LEU:HD21	1.74	0.47
3:A6:484:PRO:HG2	6:D3:672:GLU:OE2	2.12	0.47
3:A6:520:GLU:OE1	6:D3:636:ASP:O	2.31	0.47
3:A6:564:ASN:ND2	6:D3:677:GLN:OE1	2.48	0.47
3:A6:1394:VAL:HG23	28:Z4:913:ILE:C	2.34	0.47
8:F1:1570:GLN:O	8:F1:1573:ASN:ND2	2.48	0.47
11:I1:874:LEU:C	17:O1:251:ILE:C	2.68	0.47
11:I1:875:ARG:O	17:O1:248:SER:O	2.33	0.47
11:I1:887:GLN:CB	16:N1:393:ILE:CG1	2.89	0.47
11:I1:956:ILE:CG2	20:R1:166:LEU:HB3	1.99	0.47
11:I1:957:SER:C	20:R1:168:LEU:HD21	2.20	0.47
11:I1:1013:GLU:O	16:N1:412:ASN:CA	2.62	0.47
11:I1:1021:ILE:CD1	16:N1:410:MET:HE2	2.45	0.47
11:I1:1070:LEU:CA	16:N1:429:GLU:HB3	2.44	0.47
11:I2:840:LEU:HG	17:O3:244:GLU:CG	2.45	0.47
11:I2:877:ILE:CA	17:O3:254:ARG:HB3	2.28	0.47
11:I2:895:ARG:CD	17:O3:234:LEU:CG	2.93	0.47
11:I2:1063:GLN:N	17:O3:277:GLU:OE1	2.46	0.47
11:I3:1370:VAL:CG2	12:J3:259:THR:HG21	2.41	0.47
11:I4:1366:ARG:HD2	12:J4:256:GLN:NE2	2.30	0.47
17:O1:162:LYS:HZ1	18:P1:318:PRO:HG3	1.80	0.47
17:O3:148:ARG:NH1	18:P3:325:ILE:O	2.43	0.47
21:S1:676:GLU:O	21:S2:1128:ALA:HB2	2.14	0.47
21:S1:924:GLN:HA	21:S1:927:ASN:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:1015:GLU:CD	21:S1:1041:ARG:HH21	2.18	0.47
21:S2:1120:PRO:CD	21:S2:1155:GLN:HE22	2.19	0.47
21:S3:924:GLN:HA	21:S3:927:ASN:CB	2.45	0.47
21:S4:924:GLN:HA	21:S4:927:ASN:CB	2.45	0.47
21:S4:987:MET:CE	21:S4:991:LYS:HE2	2.45	0.47
21:S4:1075:CYS:HA	21:S4:1078:LEU:HD12	1.96	0.47
22:T2:885:ARG:CG	22:T2:885:ARG:NH1	2.73	0.47
22:T3:687:GLU:O	22:T3:691:GLN:HG3	2.15	0.47
23:U1:222:VAL:O	24:V1:256:VAL:HG13	2.15	0.47
23:U2:8:GLN:C	23:U2:10:GLU:N	2.68	0.47
23:U3:8:GLN:O	23:U3:10:GLU:N	2.48	0.47
23:U3:293:ILE:HD11	23:U3:327:VAL:HG21	1.97	0.47
23:U4:222:VAL:O	24:V4:256:VAL:HG13	2.15	0.47
23:U4:293:ILE:HD11	23:U4:327:VAL:HG21	1.97	0.47
23:U4:431:ILE:HD12	23:U4:431:ILE:N	2.30	0.47
24:V1:173:ILE:HD11	25:W1:43:HIS:CD2	2.49	0.47
24:V2:151:PHE:HB2	25:W2:259:ARG:NH1	2.30	0.47
24:V2:431:ASN:HB2	24:V2:434:LYS:HB3	1.96	0.47
24:V3:317:GLY:O	24:V3:320:SER:HB3	2.13	0.47
25:W4:229:ARG:HB2	25:W4:229:ARG:HH11	1.78	0.47
26:X1:322:THR:HG23	26:X1:329:ARG:HD3	1.97	0.47
26:X3:152:LEU:CD2	26:X3:182:LEU:HB3	2.43	0.47
26:X4:262:ILE:HG12	26:X4:289:ILE:HG23	1.96	0.47
27:Y1:159:ILE:O	27:Y1:161:PRO:HD3	2.14	0.47
27:Y1:236:LYS:HG3	27:Y1:306:GLU:OE1	2.15	0.47
27:Y2:208:LEU:HD11	27:Y2:231:ILE:HD11	1.96	0.47
27:Y3:312:TRP:CE2	27:Y3:319:LEU:HD13	2.50	0.47
28:Z1:4:LEU:HB2	28:Z1:381:SER:HB2	1.96	0.47
28:Z1:247:ASP:O	28:Z1:251:PHE:N	2.47	0.47
28:Z3:570:LEU:O	28:Z3:574:LEU:HB2	2.15	0.47
1:A1:871:ASN:OD1	6:D3:280:GLN:N	2.48	0.47
1:A1:1036:ALA:HB1	1:A1:1043:ALA:HB2	1.95	0.47
1:A1:1220:PRO:C	2:A2:646:ILE:CA	2.83	0.47
2:A2:867:GLU:OE1	6:D1:593:ARG:NE	2.47	0.47
2:A2:870:HIS:CB	6:D1:548:LEU:CD2	2.92	0.47
2:A2:973:GLU:CG	6:D1:192:TYR:CG	2.97	0.47
1:A3:1166:LEU:CD2	3:A6:598:VAL:HB	2.45	0.47
1:A3:1226:LEU:N	2:A4:725:GLU:OE1	2.47	0.47
2:A4:83:GLN:NE2	3:A6:324:ARG:CZ	2.78	0.47
2:A4:86:ASN:CA	3:A6:394:LEU:CA	2.90	0.47
2:A4:86:ASN:HA	3:A6:394:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:576:VAL:HG12	3:A6:509:LYS:HZ3	1.79	0.47
2:A4:769:GLU:CG	3:A6:477:PHE:CE2	2.97	0.47
2:A4:778:PHE:HA	6:D3:676:ALA:O	2.14	0.47
2:A4:820:LYS:HZ1	3:A6:166:LEU:HG	1.77	0.47
2:A4:864:ARG:HG2	6:D3:609:ILE:CB	2.45	0.47
2:A4:875:LEU:HG	6:D3:564:ASN:OD1	2.14	0.47
2:A4:989:MSE:CE	6:D3:240:ASP:CB	2.83	0.47
3:A5:790:ASP:OD1	3:A5:790:ASP:N	2.35	0.47
3:A5:995:VAL:HG12	11:I5:58:ALA:HB2	1.96	0.47
3:A6:444:ARG:CZ	6:D3:733:ALA:CB	2.90	0.47
3:A6:1135:ARG:HG2	5:C6:743:LEU:O	2.15	0.47
6:D3:422:CYS:SG	6:D3:423:PHE:N	2.88	0.47
6:D6:639:LEU:HD22	6:D6:689:PHE:CD2	2.50	0.47
6:D7:422:CYS:SG	6:D7:423:PHE:N	2.88	0.47
6:D7:512:LEU:HA	11:I3:181:GLN:N	2.30	0.47
6:D7:615:VAL:HG23	6:D7:616:ALA:N	2.29	0.47
11:I1:873:ILE:HG22	17:O1:254:ARG:HB3	1.97	0.47
11:I1:942:HIS:CA	17:O1:260:LEU:N	2.77	0.47
11:I1:1602:PHE:CB	11:I2:1666:THR:HG21	2.44	0.47
11:I1:1667:GLN:HE22	11:I2:1662:ARG:HA	1.78	0.47
11:I1:1739:GLU:C	11:I2:1604:ALA:C	2.74	0.47
11:I2:957:SER:CB	20:R3:167:GLN:C	2.77	0.47
11:I2:1018:LYS:HE3	16:N3:413:VAL:C	2.34	0.47
11:I2:1036:PRO:HD2	15:M3:626:HIS:ND1	2.28	0.47
11:I2:1054:ILE:HA	17:O3:281:ALA:H	1.69	0.47
11:I4:1013:GLU:OE1	11:I4:1013:GLU:N	2.41	0.47
17:O4:106:HIS:C	18:P4:318:PRO:CG	2.77	0.47
21:S3:676:GLU:O	21:S4:1142:PHE:HA	2.14	0.47
23:U4:254:ALA:O	24:V4:315:LYS:NZ	2.40	0.47
24:V4:492:LEU:HD12	24:V4:508:ILE:HD13	1.96	0.47
25:W1:229:ARG:HB2	25:W1:229:ARG:HH11	1.78	0.47
25:W3:12:ILE:HA	25:W3:28:SER:HA	1.96	0.47
25:W4:12:ILE:HG23	25:W4:27:CYS:O	2.15	0.47
26:X1:226:GLN:O	26:X1:230:VAL:HG23	2.15	0.47
26:X1:262:ILE:HG12	26:X1:289:ILE:HG23	1.95	0.47
26:X3:322:THR:HG23	26:X3:329:ARG:HD3	1.97	0.47
27:Y4:140:LEU:O	27:Y4:142:PRO:HD3	2.15	0.47
27:Y4:208:LEU:HD11	27:Y4:231:ILE:HD11	1.97	0.47
28:Z1:967:PHE:HA	28:Z1:978:ALA:HB2	1.96	0.47
28:Z2:247:ASP:O	28:Z2:251:PHE:N	2.47	0.47
28:Z2:967:PHE:HA	28:Z2:978:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:871:ASN:OD1	6:D3:279:HIS:N	2.48	0.47
2:A2:781:ARG:NH2	6:D1:674:TYR:CE1	2.81	0.47
2:A2:1255:LEU:HB3	2:A2:1256:PRO:HD3	1.97	0.47
1:A3:1048:ARG:HD2	6:D3:790:ARG:NH2	2.30	0.47
1:A3:1198:GLU:OE1	3:A6:679:TYR:CA	2.62	0.47
1:A3:1204:TRP:CZ2	3:A6:95:TYR:CE2	3.03	0.47
1:A3:1240:HIS:HD1	3:A6:118:SER:HG	1.49	0.47
1:A3:1257:VAL:N	3:A6:638:GLU:OE2	2.48	0.47
2:A4:87:GLN:N	3:A6:393:HIS:N	2.25	0.47
2:A4:93:ASP:CA	3:A6:361:ASP:CB	2.60	0.47
2:A4:550:VAL:HG23	3:A6:455:LEU:HD21	1.97	0.47
2:A4:798:LYS:HD3	3:A6:314:TRP:CZ2	2.50	0.47
2:A4:802:TYR:CD2	3:A6:397:LEU:CD2	2.86	0.47
2:A4:820:LYS:O	3:A6:167:TRP:HH2	1.97	0.47
2:A4:855:THR:HG21	3:A6:168:ASP:CA	2.45	0.47
2:A4:861:GLN:C	3:A6:132:ASP:HB3	2.24	0.47
2:A4:867:GLU:N	6:D3:598:ILE:CG1	2.54	0.47
2:A4:989:MSE:HB3	6:D3:240:ASP:HA	1.97	0.47
2:A4:1277:TRP:N	2:A4:1278:PRO:CD	2.77	0.47
3:A5:993:ASN:HA	11:I5:57:GLU:CA	2.43	0.47
3:A5:1101:GLN:OE1	11:I5:33:THR:HG22	2.14	0.47
6:D1:422:CYS:SG	6:D1:423:PHE:N	2.88	0.47
6:D3:615:VAL:HG23	6:D3:616:ALA:N	2.29	0.47
6:D5:422:CYS:SG	6:D5:423:PHE:N	2.88	0.47
8:F1:1203:TRP:HH2	17:O2:247:TRP:C	2.19	0.47
8:F2:1570:GLN:O	8:F2:1573:ASN:ND2	2.48	0.47
11:I1:837:MET:HE2	17:O1:242:ARG:N	2.14	0.47
11:I1:947:LEU:CD2	16:N1:408:MET:HA	2.44	0.47
11:I1:1068:HIS:CE1	16:N1:431:VAL:CG2	2.98	0.47
11:I1:1668:HIS:CA	11:I2:1664:PHE:CE2	2.94	0.47
11:I2:874:LEU:CA	17:O3:255:GLY:H	2.22	0.47
11:I2:916:ALA:C	15:M3:589:GLY:HA3	2.04	0.47
11:I2:950:LEU:CD1	16:N3:407:ALA:HA	2.41	0.47
11:I2:956:ILE:CA	20:R3:166:LEU:HB2	2.45	0.47
11:I2:1037:THR:HG1	15:M3:620:VAL:CG1	2.26	0.47
11:I2:1048:GLU:HB3	17:O3:284:LYS:CA	2.37	0.47
11:I3:1267:LEU:HD11	26:X1:529:TRP:HE3	0.67	0.47
11:I4:1271:GLU:HG2	26:X3:528:GLU:OE2	2.14	0.47
17:O4:106:HIS:C	18:P4:318:PRO:HG3	2.36	0.47
18:P1:278:ASN:HA	18:P4:322:LYS:C	2.28	0.47
21:S1:245:LEU:HD22	21:S1:304:GLU:CD	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:911:LEU:HD23	22:T2:914:GLN:NE2	2.30	0.47
23:U2:431:ILE:CD1	23:U2:431:ILE:H	2.28	0.47
23:U3:431:ILE:HD12	23:U3:431:ILE:N	2.30	0.47
24:V2:173:ILE:HD11	25:W2:43:HIS:CD2	2.49	0.47
24:V2:526:HIS:C	24:V2:528:LEU:N	2.68	0.47
24:V3:526:HIS:C	24:V3:528:LEU:N	2.68	0.47
25:W4:227:GLN:OE1	25:W4:256:VAL:HG11	2.15	0.47
28:Z2:163:PRO:HA	28:Z2:178:LEU:HA	1.96	0.47
2:A2:781:ARG:CD	6:D1:673:ARG:HD2	2.45	0.47
2:A2:871:ASN:OD1	6:D1:573:LEU:N	2.40	0.47
2:A2:977:VAL:HA	6:D1:496:LEU:CD1	2.38	0.47
2:A2:1159:ASP:H	3:A5:176:LEU:HB2	1.80	0.47
1:A3:1186:TRP:CE3	3:A6:617:VAL:HG12	2.50	0.47
1:A3:1201:ARG:N	2:A4:729:SER:C	2.67	0.47
2:A4:80:LYS:HB3	3:A6:386:ALA:C	2.13	0.47
2:A4:85:VAL:O	3:A6:392:LEU:HD22	2.15	0.47
2:A4:397:LEU:HD12	2:A4:468:GLY:HA3	1.97	0.47
2:A4:672:ARG:CG	3:A6:96:PRO:CD	1.78	0.47
2:A4:710:LEU:HB2	3:A6:480:VAL:HG23	1.38	0.47
2:A4:712:THR:O	3:A6:490:PHE:HZ	1.76	0.47
2:A4:775:LEU:HG	3:A6:478:ASP:C	2.35	0.47
2:A4:801:THR:HG21	3:A6:381:LEU:HG	1.97	0.47
2:A4:855:THR:HB	3:A6:168:ASP:H	1.77	0.47
2:A4:873:PRO:HA	6:D3:568:ARG:HD3	1.35	0.47
2:A4:965:LYS:HD3	6:D3:199:GLY:HA2	1.04	0.47
2:A4:1255:LEU:HB3	2:A4:1256:PRO:HD3	1.98	0.47
3:A5:220:VAL:HA	5:C2:738:ASP:CA	2.45	0.47
3:A5:1372:THR:CB	28:Z2:828:LEU:CA	2.86	0.47
3:A5:1414:PHE:N	28:Z2:961:PHE:CB	2.76	0.47
6:D1:615:VAL:HG23	6:D1:616:ALA:N	2.29	0.47
6:D2:192:TYR:OH	6:D2:498:GLU:OE1	2.33	0.47
6:D3:639:LEU:HD22	6:D3:689:PHE:CD2	2.50	0.47
6:D7:440:PHE:CE1	6:D7:444:LEU:HD11	2.50	0.47
8:F1:982:PRO:HB2	11:I1:1388:GLU:CD	2.35	0.47
8:F2:1137:GLN:CB	17:O4:251:ILE:CG1	2.91	0.47
11:I1:886:LEU:HB2	17:O1:242:ARG:CB	2.32	0.47
11:I1:1061:ASP:N	17:O1:279:ILE:HD12	2.30	0.47
11:I1:1109:LEU:H	16:N1:440:GLU:CA	2.09	0.47
11:I1:1639:LEU:HD21	11:I2:1673:VAL:HB	1.97	0.47
11:I1:1668:HIS:O	11:I2:1668:HIS:HB3	2.14	0.47
11:I2:300:LEU:O	11:I2:300:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:840:LEU:HD13	17:O3:247:TRP:CD1	2.45	0.47
11:I2:884:LEU:CD1	16:N3:400:LEU:HG	2.43	0.47
11:I2:884:LEU:O	16:N3:397:GLU:CA	2.63	0.47
11:I2:945:LEU:HA	17:O3:255:GLY:C	2.29	0.47
11:I2:950:LEU:CG	16:N3:410:MET:CE	2.84	0.47
11:I2:951:LYS:HB2	16:N3:404:GLU:HA	1.39	0.47
11:I2:967:SER:CA	20:R3:153:GLN:NE2	2.64	0.47
11:I2:968:PRO:C	20:R3:149:ARG:NH1	2.56	0.47
11:I2:1013:GLU:OE1	11:I2:1013:GLU:N	2.41	0.47
11:I2:1021:ILE:CG1	16:N3:410:MET:HG3	2.45	0.47
11:I2:1048:GLU:OE2	17:O3:288:GLU:OE2	2.33	0.47
11:I2:1584:LEU:HD21	12:J2:275:PHE:CE1	2.50	0.47
11:I5:1366:ARG:HD2	12:J5:256:GLN:NE2	2.30	0.47
17:O1:85:LYS:HD2	17:O1:94:ALA:HB2	1.96	0.47
21:S1:352:LEU:O	21:S1:374:THR:HA	2.15	0.47
21:S3:684:THR:HA	21:S4:1147:ASN:C	2.35	0.47
21:S3:987:MET:CE	21:S3:991:LYS:HE2	2.45	0.47
22:T1:777:ILE:O	22:T1:780:PRO:HG3	2.15	0.47
23:U2:293:ILE:HD11	23:U2:327:VAL:HG21	1.97	0.47
23:U3:314:ILE:HD12	24:V3:309:LYS:HE3	1.97	0.47
24:V2:360:LYS:HG3	24:V2:366:PRO:HA	1.98	0.47
24:V3:304:VAL:HG13	24:V3:323:ILE:HG22	1.97	0.47
24:V4:483:GLU:OE2	24:V4:514:ARG:NH2	2.35	0.47
25:W2:12:ILE:HG23	25:W2:27:CYS:O	2.15	0.47
25:W3:227:GLN:OE1	25:W3:256:VAL:HG11	2.15	0.47
26:X1:249:LEU:O	26:X1:253:VAL:HG23	2.15	0.47
26:X2:186:ARG:HG3	26:X2:190:PHE:HB2	1.97	0.47
26:X2:392:GLN:HB3	26:X2:393:PRO:HD3	1.96	0.47
26:X2:511:TYR:HA	26:X2:512:PRO:HD3	1.73	0.47
26:X3:226:GLN:O	26:X3:230:VAL:HG23	2.15	0.47
26:X4:152:LEU:HD22	26:X4:179:LEU:HD12	1.97	0.47
1:A1:868:GLN:O	6:D3:280:GLN:CB	2.59	0.46
2:A2:970:PHE:HA	6:D1:192:TYR:CE2	1.67	0.46
1:A3:1231:VAL:C	3:A6:575:LEU:O	2.48	0.46
1:A3:1236:GLN:HB3	3:A6:118:SER:CA	2.40	0.46
1:A3:1250:PRO:HG2	3:A6:635:ARG:H	1.69	0.46
1:A3:1318:TRP:CZ3	3:A6:624:ASP:OD1	2.66	0.46
2:A4:276:GLN:NE2	4:B4:355:PRO:CD	2.78	0.46
2:A4:553:ASP:N	3:A6:456:ASP:O	2.48	0.46
2:A4:611:ILE:HB	3:A6:508:LEU:CD1	2.39	0.46
2:A4:713:ILE:N	3:A6:462:LEU:HD21	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:904:GLN:CG	3:A6:137:HIS:CE1	2.83	0.46
2:A4:909:LYS:HE2	6:D3:552:TYR:HD2	1.28	0.46
3:A5:147:LEU:O	5:C2:747:PRO:HG3	2.15	0.46
3:A5:164:LEU:HD22	5:C2:742:ASP:HB2	1.12	0.46
3:A5:175:GLU:HG2	5:C2:733:LEU:CD1	2.44	0.46
3:A5:1095:GLY:HA2	11:I5:1:MET:O	2.10	0.46
3:A5:1369:ILE:CG2	28:Z2:830:LEU:C	2.25	0.46
6:D1:440:PHE:CE1	6:D1:444:LEU:HD11	2.50	0.46
6:D2:422:CYS:SG	6:D2:423:PHE:N	2.88	0.46
6:D7:530:ARG:HB3	11:I3:181:GLN:HG3	1.14	0.46
8:F1:731:ASP:OD1	8:F1:732:VAL:N	2.45	0.46
8:F1:1569:VAL:HG23	8:F1:1570:GLN:N	2.31	0.46
11:I1:945:LEU:HB3	17:O1:259:ASP:H	1.78	0.46
11:I1:1060:PHE:HD2	17:O1:279:ILE:CD1	2.13	0.46
11:I1:1636:TYR:HH	11:I2:1674:HIS:CE1	2.29	0.46
11:I2:937:TYR:O	17:O3:262:ASP:N	2.43	0.46
11:I2:983:LEU:HD21	15:M3:604:ASN:ND2	2.30	0.46
11:I2:1031:ALA:C	20:R3:173:LEU:O	2.53	0.46
11:I2:1049:LEU:CD2	17:O3:291:ASP:OD2	2.63	0.46
17:O3:108:VAL:N	17:O3:109:PRO:CD	2.78	0.46
21:S1:987:MET:CE	21:S1:991:LYS:HE2	2.45	0.46
21:S1:1120:PRO:CD	21:S1:1155:GLN:HE22	2.19	0.46
21:S2:123:LEU:HD22	21:S2:125:ILE:HG13	1.96	0.46
21:S2:924:GLN:HA	21:S2:927:ASN:CB	2.45	0.46
21:S4:1020:LEU:HD22	21:S4:1020:LEU:N	2.30	0.46
22:T1:911:LEU:HD23	22:T1:914:GLN:NE2	2.30	0.46
23:U3:278:GLN:CD	25:W4:189:SER:O	2.53	0.46
23:U4:86:ASN:OD1	23:U4:400:ASN:ND2	2.48	0.46
24:V1:156:THR:HG22	24:V1:514:ARG:CD	2.45	0.46
24:V3:151:PHE:HB2	25:W3:259:ARG:NH1	2.30	0.46
24:V4:304:VAL:HG13	24:V4:323:ILE:HG22	1.97	0.46
26:X1:533:GLU:H	26:X1:533:GLU:HG2	1.45	0.46
27:Y3:159:ILE:O	27:Y3:161:PRO:HD3	2.15	0.46
28:Z1:490:VAL:HG22	28:Z1:590:GLN:HG3	1.97	0.46
28:Z3:247:ASP:O	28:Z3:251:PHE:N	2.47	0.46
28:Z3:739:PHE:O	28:Z3:743:ASN:N	2.36	0.46
1:A1:1224:PRO:O	2:A2:734:LEU:CD2	2.63	0.46
2:A2:981:PRO:HG3	6:D1:504:LYS:HG3	1.90	0.46
2:A2:1141:GLU:CD	3:A5:563:THR:OG1	2.51	0.46
1:A3:1166:LEU:HB3	3:A6:595:GLU:HB2	1.58	0.46
1:A3:1170:ILE:N	3:A6:590:SER:C	2.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1186:TRP:CD1	3:A6:639:ASN:C	2.86	0.46
1:A3:1189:LEU:CD1	3:A6:614:ALA:HA	2.15	0.46
2:A4:90:GLN:HB2	3:A6:407:SER:N	2.31	0.46
2:A4:227:SER:CB	6:D3:709:ARG:HA	2.41	0.46
2:A4:721:ARG:CA	3:A6:494:PRO:N	2.75	0.46
2:A4:902:VAL:H	4:B6:342:ARG:N	2.13	0.46
3:A5:175:GLU:CB	5:C2:733:LEU:CD1	2.90	0.46
3:A5:1094:ILE:HD12	11:I5:34:LEU:CD2	2.45	0.46
3:A5:1098:ARG:NH1	11:I5:29:GLN:HG2	2.15	0.46
3:A5:1391:ARG:HE	28:Z2:872:TYR:N	2.12	0.46
3:A5:1394:VAL:CG1	28:Z2:875:LEU:N	2.78	0.46
3:A6:486:GLN:HA	6:D3:674:TYR:HB3	1.97	0.46
6:D3:440:PHE:CE1	6:D3:444:LEU:HD11	2.50	0.46
6:D6:440:PHE:CE1	6:D6:444:LEU:HD11	2.50	0.46
8:F1:1267:ARG:CG	17:O2:265:ASN:CB	2.87	0.46
11:I1:921:GLU:OE1	16:N1:392:THR:C	2.53	0.46
11:I1:938:CYS:SG	15:M1:606:LEU:O	2.73	0.46
11:I1:963:LEU:C	20:R1:165:SER:OG	2.53	0.46
11:I1:977:ASN:N	20:R1:146:LEU:O	2.47	0.46
11:I1:1049:LEU:HB2	20:R1:146:LEU:HD22	1.98	0.46
11:I1:1049:LEU:CA	17:O1:291:ASP:HB2	2.39	0.46
11:I2:948:ALA:CB	17:O3:257:ALA:N	2.62	0.46
11:I2:980:ILE:CA	15:M3:618:GLN:HG3	2.43	0.46
11:I2:980:ILE:HD12	15:M3:622:VAL:CG2	2.34	0.46
11:I4:1426:SER:CB	12:J4:263:MET:SD	3.04	0.46
21:S1:934:HIS:C	21:S1:936:SER:H	2.18	0.46
21:S2:1020:LEU:HD22	21:S2:1020:LEU:N	2.30	0.46
21:S4:934:HIS:C	21:S4:936:SER:H	2.18	0.46
21:S4:975:LYS:HD3	22:T4:882:SER:HB2	1.97	0.46
22:T2:702:SER:HB3	22:T2:704:LYS:HE3	1.97	0.46
23:U3:8:GLN:C	23:U3:10:GLU:N	2.68	0.46
23:U3:159:ASP:OD2	24:V3:319:LEU:HB2	2.15	0.46
23:U3:222:VAL:O	24:V3:256:VAL:HG13	2.15	0.46
26:X2:322:THR:HG23	26:X2:329:ARG:HD3	1.97	0.46
27:Y2:312:TRP:CE2	27:Y2:319:LEU:HD13	2.50	0.46
27:Y4:312:TRP:CE2	27:Y4:319:LEU:HD13	2.50	0.46
28:Z1:570:LEU:O	28:Z1:574:LEU:HB2	2.15	0.46
28:Z3:623:LEU:HA	28:Z3:623:LEU:HD23	1.74	0.46
28:Z4:4:LEU:HB2	28:Z4:381:SER:HB2	1.96	0.46
1:A1:869:ALA:N	6:D3:280:GLN:CG	2.78	0.46
2:A2:276:GLN:NE2	4:B2:355:PRO:CD	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:867:GLU:CA	6:D1:605:THR:HB	2.44	0.46
2:A2:868:GLN:HE21	6:D1:608:ILE:HG13	1.35	0.46
2:A2:911:TYR:CE2	6:D1:555:ARG:CZ	2.80	0.46
2:A2:1121:LEU:O	3:A5:132:ASP:O	2.32	0.46
1:A3:1162:ASN:HB2	3:A6:649:GLY:CA	2.45	0.46
1:A3:1164:TYR:CE1	3:A6:642:ARG:O	2.57	0.46
1:A3:1165:ASP:OD1	3:A6:598:VAL:HG11	2.16	0.46
1:A3:1195:PHE:HA	3:A6:679:TYR:N	2.29	0.46
1:A3:1233:GLN:CG	3:A6:578:ILE:CG2	2.91	0.46
1:A3:1248:ILE:CD1	3:A6:587:VAL:N	2.49	0.46
1:A3:1254:LEU:H	3:A6:634:ASP:CB	2.28	0.46
2:A4:90:GLN:H	3:A6:406:LEU:CA	2.29	0.46
2:A4:537:ALA:H	3:A6:368:SER:HG	1.58	0.46
2:A4:717:VAL:HG11	3:A6:476:PHE:H	1.79	0.46
2:A4:719:ARG:HG3	3:A6:514:GLY:H	1.75	0.46
2:A4:873:PRO:HB2	6:D3:568:ARG:HG2	1.05	0.46
2:A4:926:ASP:OD1	2:A4:929:ASN:N	2.48	0.46
2:A4:982:THR:O	6:D3:502:LEU:HD23	2.16	0.46
3:A5:996:ASN:HD21	11:I5:58:ALA:HB3	1.67	0.46
3:A6:444:ARG:NE	6:D3:733:ALA:CA	2.77	0.46
4:B5:345:LYS:C	5:C2:737:LYS:HD2	2.36	0.46
6:D5:594:LYS:NZ	24:V2:255:GLN:NE2	2.45	0.46
6:D7:179:ASP:OD2	11:I3:49:PRO:CA	2.63	0.46
8:F1:1571:VAL:O	8:F1:1574:ILE:HG13	2.16	0.46
8:F2:1569:VAL:HG23	8:F2:1570:GLN:N	2.31	0.46
8:F2:1775:VAL:O	8:F2:1776:THR:HG22	2.15	0.46
11:I1:846:ILE:CB	17:O1:247:TRP:CH2	2.98	0.46
11:I1:925:LEU:HG	15:M1:593:ALA:HA	1.98	0.46
11:I1:951:LYS:CB	17:O1:253:LEU:CD1	2.80	0.46
11:I2:917:TYR:N	15:M3:586:ASP:C	2.68	0.46
11:I2:962:ILE:HD12	20:R3:164:PRO:HB2	1.97	0.46
11:I2:1052:LEU:CD2	17:O3:283:ALA:HB1	2.44	0.46
11:I2:1066:LEU:CG	16:N3:430:ARG:HB3	2.36	0.46
11:I2:1607:GLN:HB2	12:J1:298:PHE:CE1	2.50	0.46
22:T1:687:GLU:O	22:T1:691:GLN:HG3	2.15	0.46
22:T3:911:LEU:HD23	22:T3:914:GLN:NE2	2.30	0.46
22:T4:687:GLU:O	22:T4:691:GLN:HG3	2.15	0.46
22:T4:777:ILE:O	22:T4:780:PRO:HG3	2.15	0.46
23:U1:159:ASP:OD2	24:V1:319:LEU:HB2	2.16	0.46
23:U2:8:GLN:O	23:U2:10:GLU:N	2.48	0.46
26:X2:249:LEU:O	26:X2:253:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:152:LEU:HD22	26:X3:179:LEU:HD12	1.97	0.46
26:X3:511:TYR:HA	26:X3:512:PRO:HD3	1.73	0.46
26:X4:249:LEU:O	26:X4:253:VAL:HG23	2.15	0.46
27:Y1:312:TRP:CE2	27:Y1:319:LEU:HD13	2.50	0.46
27:Y2:16:VAL:HG12	27:Y2:63:TRP:HD1	1.81	0.46
27:Y3:208:LEU:HD11	27:Y3:231:ILE:HD11	1.97	0.46
1:A3:1056:PHE:CE1	6:D3:809:ALA:O	2.38	0.46
1:A3:1181:THR:HA	3:A6:642:ARG:NH1	2.24	0.46
1:A3:1271:ILE:CA	3:A6:550:VAL:CG1	2.91	0.46
2:A4:85:VAL:CB	3:A6:405:PHE:HD1	2.28	0.46
2:A4:692:VAL:CG1	3:A6:467:LEU:CB	2.93	0.46
2:A4:736:PRO:HD2	3:A6:682:ARG:HG2	1.97	0.46
2:A4:779:ASP:OD1	6:D3:674:TYR:C	2.53	0.46
2:A4:824:ASN:O	3:A6:134:VAL:C	2.53	0.46
2:A4:868:GLN:HE21	6:D3:608:ILE:HG13	1.73	0.46
2:A4:898:LEU:CD1	4:B6:342:ARG:CA	2.94	0.46
2:A4:950:ASP:OD2	4:B6:349:MET:N	2.48	0.46
3:A5:1415:PHE:HB2	28:Z2:960:CYS:N	2.31	0.46
8:F1:982:PRO:CG	11:I1:1388:GLU:HG3	2.45	0.46
8:F1:984:ALA:O	8:F1:988:ARG:NH1	2.48	0.46
8:F2:137:ASN:HA	17:O4:237:PRO:HG3	1.96	0.46
11:I1:967:SER:O	15:M1:628:ALA:CB	2.63	0.46
11:I1:989:GLY:C	15:M1:614:ASP:OD1	2.52	0.46
11:I1:1366:ARG:HD2	12:J1:256:GLN:NE2	2.30	0.46
11:I2:931:VAL:C	15:M3:604:ASN:HB2	2.22	0.46
11:I2:988:GLU:O	15:M3:611:LYS:N	2.48	0.46
11:I2:1016:ARG:HB3	16:N3:411:GLN:HG3	1.25	0.46
11:I3:1275:SER:CB	26:X1:522:MET:CG	2.77	0.46
23:U1:8:GLN:O	23:U1:10:GLU:N	2.48	0.46
23:U1:86:ASN:OD1	23:U1:400:ASN:ND2	2.48	0.46
23:U2:222:VAL:O	24:V2:256:VAL:HG13	2.15	0.46
23:U4:8:GLN:O	23:U4:10:GLU:N	2.48	0.46
23:U4:144:TRP:CH2	23:U4:158:LEU:HA	2.51	0.46
24:V2:352:ASP:HB3	24:V2:355:ILE:HD13	1.97	0.46
25:W2:12:ILE:HA	25:W2:28:SER:HA	1.96	0.46
1:A1:1220:PRO:HD2	2:A2:647:GLU:N	2.28	0.46
1:A1:1393:THR:CB	2:A2:851:ASP:OD1	2.64	0.46
2:A2:983:LEU:CB	6:D1:553:PHE:CB	2.66	0.46
2:A2:1070:ASP:OD2	3:A5:126:ARG:HB2	2.15	0.46
2:A2:1138:GLU:HG3	3:A5:562:LEU:CD1	2.36	0.46
2:A2:1341:ALA:O	2:A2:1342:SER:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:HB3	2:A4:724:LEU:CD2	2.25	0.46
2:A4:574:ARG:NH2	3:A6:108:SER:HG	2.14	0.46
2:A4:669:LEU:HA	3:A6:542:LEU:CG	2.45	0.46
2:A4:798:LYS:HE3	3:A6:264:GLU:HB3	1.97	0.46
2:A4:825:ARG:HA	3:A6:135:PHE:HA	1.97	0.46
2:A4:955:CYS:HB2	4:B6:345:LYS:HB2	1.97	0.46
3:A5:164:LEU:HA	5:C2:744:PHE:N	2.23	0.46
3:A5:943:ASP:OD2	3:A5:945:ARG:NE	2.43	0.46
3:A5:1056:PHE:CG	11:I5:37:GLU:HA	2.29	0.46
3:A5:1101:GLN:OE1	11:I5:33:THR:HG21	2.11	0.46
3:A6:484:PRO:CG	6:D3:672:GLU:OE2	2.63	0.46
3:A6:1408:GLU:O	26:X4:686:ASP:CB	2.63	0.46
6:D1:192:TYR:OH	6:D1:498:GLU:OE1	2.33	0.46
6:D4:192:TYR:OH	6:D4:498:GLU:OE1	2.32	0.46
8:F1:1261:TYR:HB3	17:O2:259:ASP:OD2	2.16	0.46
9:G1:253:SER:N	15:M2:601:ASP:HB3	2.06	0.46
11:I1:880:MET:CB	17:O1:250:LEU:H	2.28	0.46
11:I1:936:LYS:HG2	15:M1:609:GLY:HA2	1.97	0.46
11:I1:947:LEU:O	16:N1:407:ALA:CB	2.59	0.46
11:I1:1739:GLU:HB3	11:I2:1540:LYS:HD3	1.96	0.46
11:I2:874:LEU:HB2	17:O3:255:GLY:HA3	1.88	0.46
11:I2:882:LYS:HG3	17:O3:249:ARG:HG3	1.97	0.46
11:I2:884:LEU:HD12	16:N3:400:LEU:HD11	0.52	0.46
11:I2:895:ARG:N	17:O3:239:GLN:CG	2.73	0.46
11:I2:951:LYS:CG	16:N3:403:VAL:CB	2.85	0.46
11:I2:1060:PHE:HB3	17:O3:277:GLU:HB3	1.35	0.46
11:I3:288:ILE:O	11:I3:292:GLY:N	2.46	0.46
11:I3:1276:GLN:HE21	26:X1:535:ALA:N	2.08	0.46
15:M4:605:THR:O	17:O4:261:LYS:NZ	2.43	0.46
17:O1:108:VAL:N	17:O1:109:PRO:CD	2.79	0.46
21:S1:652:VAL:CA	21:S2:1156:ILE:O	2.61	0.46
21:S1:1020:LEU:HD22	21:S1:1020:LEU:N	2.30	0.46
21:S2:1058:ILE:O	21:S2:1059:ASP:CB	2.58	0.46
21:S4:1015:GLU:CD	21:S4:1041:ARG:HH21	2.18	0.46
23:U1:314:ILE:HD12	24:V1:309:LYS:HE3	1.98	0.46
23:U2:86:ASN:OD1	23:U2:400:ASN:ND2	2.48	0.46
23:U3:144:TRP:CH2	23:U3:158:LEU:HA	2.50	0.46
26:X1:186:ARG:HG3	26:X1:190:PHE:HB2	1.97	0.46
27:Y1:16:VAL:HG12	27:Y1:63:TRP:HD1	1.81	0.46
28:Z4:570:LEU:O	28:Z4:574:LEU:HB2	2.15	0.46
2:A2:825:ARG:NH1	2:A2:826:ASN:OD1	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:974:PRO:O	6:D1:498:GLU:N	2.47	0.46
2:A2:977:VAL:H	6:D1:502:LEU:HD13	1.79	0.46
2:A2:1126:VAL:CG1	3:A5:139:ASN:ND2	2.78	0.46
1:A3:1184:ASP:N	3:A6:642:ARG:NE	2.45	0.46
1:A3:1191:ASN:OD1	3:A6:615:LEU:O	2.32	0.46
1:A3:1195:PHE:C	3:A6:678:LEU:HB3	2.05	0.46
1:A3:1202:GLU:HG3	3:A6:89:LEU:C	2.36	0.46
1:A3:1202:GLU:HG3	3:A6:91:LEU:N	2.27	0.46
1:A3:1225:PRO:HD2	2:A4:727:ASN:CB	2.03	0.46
1:A3:1325:MET:HG2	3:A6:126:ARG:HD3	1.97	0.46
2:A4:90:GLN:HB2	3:A6:407:SER:CA	2.45	0.46
2:A4:200:VAL:HG23	4:B4:351:GLU:O	2.11	0.46
2:A4:683:LEU:C	3:A6:403:ARG:CZ	2.84	0.46
2:A4:774:VAL:HG12	3:A6:479:VAL:CG1	2.45	0.46
2:A4:790:ASP:OD2	3:A6:188:ALA:N	2.47	0.46
2:A4:879:LEU:CA	6:D3:564:ASN:HB2	2.44	0.46
3:A6:521:ASN:N	6:D3:639:LEU:HD11	2.31	0.46
5:C1:732:LYS:NZ	11:I1:1225:LYS:HB3	2.26	0.46
6:D5:192:TYR:OH	6:D5:498:GLU:OE1	2.33	0.46
6:D6:800:PRO:HG2	22:T3:765:LYS:CE	2.42	0.46
8:F1:1392:LEU:CD2	17:O2:266:GLN:NE2	2.59	0.46
11:I1:873:ILE:CG2	17:O1:255:GLY:N	2.58	0.46
11:I1:886:LEU:HB3	17:O1:242:ARG:HG2	0.91	0.46
11:I1:916:ALA:CA	15:M1:586:ASP:N	2.73	0.46
11:I1:958:THR:HB	16:N1:399:HIS:HA	1.96	0.46
11:I1:967:SER:HB2	15:M1:625:GLY:O	2.14	0.46
11:I1:1104:LEU:CA	16:N1:436:ALA:CB	2.78	0.46
11:I1:1671:LEU:HD21	11:I2:1670:GLY:O	2.14	0.46
11:I2:849:LEU:CD2	17:O3:251:ILE:HD11	2.46	0.46
11:I2:874:LEU:O	17:O3:252:VAL:C	2.53	0.46
11:I2:878:GLN:N	17:O3:253:LEU:N	2.64	0.46
11:I2:899:LEU:HD11	17:O3:234:LEU:CA	2.45	0.46
11:I2:911:PRO:CA	15:M3:584:GLN:HE21	2.22	0.46
11:I2:1017:VAL:HG22	17:O3:260:LEU:CD1	2.45	0.46
11:I2:1041:GLN:CD	15:M3:617:THR:HG22	2.34	0.46
11:I5:504:ALA:CB	11:I5:508:LEU:HD23	2.46	0.46
21:S1:1016:LYS:NZ	21:S1:1039:GLU:HG3	2.31	0.46
21:S3:882:GLN:C	21:S3:884:ARG:N	2.69	0.46
21:S3:1020:LEU:HD22	21:S3:1020:LEU:N	2.30	0.46
22:T3:885:ARG:CG	22:T3:885:ARG:NH1	2.73	0.46
23:U1:293:ILE:HD11	23:U1:327:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U3:86:ASN:OD1	23:U3:400:ASN:ND2	2.48	0.46
23:U3:279:TYR:HD1	25:W4:189:SER:HB3	1.60	0.46
23:U4:207:SER:O	23:U4:211:ILE:HG13	2.15	0.46
24:V2:178:THR:HG22	24:V2:180:LEU:H	1.81	0.46
24:V4:151:PHE:HB2	25:W4:259:ARG:NH1	2.30	0.46
24:V4:352:ASP:HB3	24:V4:355:ILE:HD13	1.97	0.46
25:W2:16:VAL:HG21	25:W2:59:VAL:O	2.16	0.46
26:X1:392:GLN:HB3	26:X1:393:PRO:HD3	1.96	0.46
26:X4:322:THR:HG23	26:X4:329:ARG:HD3	1.97	0.46
27:Y3:140:LEU:O	27:Y3:142:PRO:HD3	2.15	0.46
28:Z2:490:VAL:HG22	28:Z2:590:GLN:HG3	1.98	0.46
28:Z2:570:LEU:O	28:Z2:574:LEU:HB2	2.15	0.46
28:Z4:177:PHE:CD1	28:Z4:183:LEU:HD22	2.51	0.46
2:A2:866:SER:H	6:D1:605:THR:N	2.14	0.46
2:A2:968:SER:OG	6:D1:200:HIS:N	2.44	0.46
2:A2:1148:ARG:CG	3:A5:174:PRO:HD3	2.43	0.46
2:A2:1153:LEU:HD23	3:A5:174:PRO:HD2	1.98	0.46
1:A3:1021:LEU:HD11	6:D3:819:ASN:CB	2.46	0.46
1:A3:1188:ASN:HA	3:A6:723:PHE:CE2	2.48	0.46
1:A3:1245:ASP:CB	3:A6:588:SER:HG	2.05	0.46
1:A3:1250:PRO:CG	3:A6:635:ARG:H	2.26	0.46
2:A4:574:ARG:CB	3:A6:454:GLN:HA	2.46	0.46
2:A4:735:ALA:HB1	3:A6:682:ARG:CG	2.43	0.46
2:A4:792:VAL:CA	3:A6:249:SER:HG	2.28	0.46
2:A4:823:VAL:HG22	3:A6:130:ILE:HG13	1.49	0.46
2:A4:828:ALA:C	6:D3:605:THR:OG1	2.51	0.46
2:A4:853:VAL:HA	3:A6:128:HIS:CB	2.45	0.46
2:A4:965:LYS:HD2	6:D3:199:GLY:C	2.36	0.46
2:A4:985:ALA:CA	6:D3:500:LYS:HA	2.44	0.46
3:A6:132:ASP:HB3	6:D3:604:ASP:C	2.36	0.46
3:A6:1414:PHE:C	28:Z4:994:ILE:O	2.54	0.46
6:D4:422:CYS:SG	6:D4:423:PHE:N	2.88	0.46
8:F2:984:ALA:O	8:F2:988:ARG:NH1	2.48	0.46
9:G1:251:TYR:O	15:M2:602:MET:HE1	2.16	0.46
9:G1:258:LYS:HD2	16:N2:404:GLU:O	2.16	0.46
11:I1:875:ARG:O	17:O1:248:SER:CB	2.63	0.46
11:I1:880:MET:CE	15:M1:598:GLU:OE1	2.63	0.46
11:I1:1016:ARG:O	16:N1:409:ALA:HA	2.12	0.46
11:I1:1017:VAL:HG22	17:O1:260:LEU:CD2	2.45	0.46
11:I1:1033:PRO:O	16:N1:441:PHE:CZ	2.60	0.46
11:I1:1584:LEU:HD21	12:J1:275:PHE:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1668:HIS:HD2	11:I2:1672:VAL:CG2	2.28	0.46
11:I2:833:PHE:CZ	17:O3:241:SER:O	2.60	0.46
11:I2:887:GLN:HA	17:O3:242:ARG:CB	2.45	0.46
11:I2:900:ARG:HG3	17:O3:232:LYS:HZ3	1.67	0.46
11:I2:950:LEU:CD1	16:N3:410:MET:CG	2.32	0.46
11:I2:984:GLU:HB3	15:M3:618:GLN:NE2	2.15	0.46
11:I2:1040:HIS:CE1	16:N3:437:VAL:HG12	2.46	0.46
11:I2:1052:LEU:N	17:O3:286:ILE:CA	2.76	0.46
11:I2:1103:LEU:CB	20:R3:174:ARG:CB	2.76	0.46
11:I2:1370:VAL:CG2	12:J2:259:THR:HG21	2.41	0.46
21:S2:1016:LYS:NZ	21:S2:1039:GLU:HG3	2.31	0.46
21:S2:1119:LEU:N	21:S2:1120:PRO:CD	2.79	0.46
21:S3:1015:GLU:CD	21:S3:1041:ARG:HH21	2.18	0.46
22:T2:687:GLU:O	22:T2:691:GLN:HG3	2.15	0.46
23:U1:219:LEU:HD22	23:U1:227:ILE:HG12	1.98	0.46
23:U2:219:LEU:HD22	23:U2:227:ILE:HG12	1.98	0.46
23:U3:157:ASP:OD1	23:U3:163:ARG:NH2	2.46	0.46
24:V1:178:THR:HG22	24:V1:180:LEU:H	1.81	0.46
25:W4:16:VAL:HG21	25:W4:59:VAL:O	2.16	0.46
26:X3:186:ARG:HG3	26:X3:190:PHE:HB2	1.97	0.46
26:X4:226:GLN:O	26:X4:230:VAL:HG23	2.15	0.46
27:Y1:140:LEU:O	27:Y1:142:PRO:HD3	2.15	0.46
27:Y1:208:LEU:HD11	27:Y1:231:ILE:HD11	1.97	0.46
27:Y2:236:LYS:HG3	27:Y2:306:GLU:OE1	2.15	0.46
28:Z2:4:LEU:HB2	28:Z2:381:SER:HB2	1.96	0.46
1:A3:1188:ASN:C	3:A6:645:PHE:CG	2.75	0.46
1:A3:1195:PHE:CD1	3:A6:608:VAL:HG13	2.50	0.46
1:A3:1248:ILE:C	3:A6:587:VAL:HG22	2.36	0.46
1:A3:1318:TRP:CE2	3:A6:624:ASP:HB3	2.51	0.46
2:A4:75:LEU:HA	3:A6:322:ASP:CB	2.46	0.46
2:A4:679:TYR:HE2	3:A6:512:GLU:N	2.00	0.46
2:A4:778:PHE:CD1	3:A6:466:ALA:HB3	2.51	0.46
2:A4:898:LEU:CB	3:A6:176:LEU:O	2.61	0.46
2:A4:988:ARG:NH2	6:D3:498:GLU:C	2.69	0.46
3:A5:1368:GLN:HG2	28:Z2:828:LEU:CB	2.45	0.46
3:A6:442:ARG:CD	6:D3:691:LEU:HG	2.17	0.46
3:A6:444:ARG:C	6:D3:719:LEU:CA	2.60	0.46
6:D4:639:LEU:HD22	6:D4:689:PHE:CD2	2.50	0.46
8:F1:1205:TRP:CG	17:O2:254:ARG:CG	2.97	0.46
8:F1:1266:MET:N	17:O2:262:ASP:CB	2.74	0.46
8:F2:535:ILE:CG1	8:F2:536:PRO:HD2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:504:ALA:CB	11:I1:508:LEU:HD23	2.46	0.46
11:I1:843:GLU:CB	15:M1:587:GLU:CD	2.67	0.46
11:I1:878:GLN:N	17:O1:252:VAL:CB	2.79	0.46
11:I1:895:ARG:HA	17:O1:236:ASP:N	2.31	0.46
11:I1:1056:PRO:HA	17:O1:278:GLU:HG3	1.81	0.46
11:I1:1426:SER:CB	12:J1:263:MET:SD	3.04	0.46
11:I2:504:ALA:CB	11:I2:508:LEU:HD23	2.46	0.46
11:I2:877:ILE:HA	17:O3:254:ARG:HB2	1.97	0.46
11:I2:882:LYS:CG	17:O3:249:ARG:CG	2.84	0.46
11:I2:896:PRO:HD3	17:O3:233:THR:HG23	1.98	0.46
11:I2:922:ASP:H	15:M3:592:LEU:HB3	1.80	0.46
11:I2:932:VAL:HG13	15:M3:612:PRO:CG	2.46	0.46
11:I2:935:GLY:HA3	15:M3:604:ASN:O	2.15	0.46
11:I2:958:THR:O	20:R3:176:ARG:NH1	2.48	0.46
11:I2:977:ASN:CB	20:R3:147:LEU:CA	2.74	0.46
11:I2:978:LYS:NZ	20:R3:153:GLN:C	2.70	0.46
11:I2:978:LYS:C	15:M3:621:ARG:NH1	2.58	0.46
11:I2:994:ALA:CB	17:O3:268:GLY:C	2.84	0.46
11:I2:1020:ALA:HB3	16:N3:410:MET:HB3	1.97	0.46
11:I2:1021:ILE:CG1	16:N3:410:MET:CG	2.93	0.46
11:I4:1270:LYS:HD2	26:X3:527:VAL:CG1	2.39	0.46
12:J5:240:GLY:O	12:J5:241:THR:OG1	2.28	0.46
21:S1:677:TYR:O	21:S2:1127:GLN:HB2	2.07	0.46
21:S1:1052:LEU:HA	21:S1:1055:LEU:HD23	1.98	0.46
21:S3:449:ASP:HB2	21:S3:467:ASN:ND2	2.31	0.46
21:S3:975:LYS:HD3	22:T3:882:SER:HB2	1.97	0.46
21:S3:1016:LYS:NZ	21:S3:1039:GLU:HG3	2.31	0.46
21:S3:1052:LEU:HA	21:S3:1055:LEU:HD23	1.98	0.46
21:S4:1001:PHE:HB2	21:S4:1057:TYR:CE1	2.51	0.46
22:T4:917:ASP:OD1	22:T4:921:TYR:N	2.47	0.46
23:U1:431:ILE:CD1	23:U1:431:ILE:H	2.28	0.46
23:U2:284:SER:O	23:U2:288:ILE:HG12	2.16	0.46
23:U3:278:GLN:HE21	25:W4:189:SER:HA	1.50	0.46
23:U3:278:GLN:OE1	25:W4:189:SER:C	2.54	0.46
24:V2:156:THR:HG22	24:V2:514:ARG:CD	2.45	0.46
25:W1:227:GLN:OE1	25:W1:256:VAL:HG11	2.15	0.46
26:X1:153:ASN:HA	26:X1:156:GLU:OE1	2.16	0.46
26:X2:152:LEU:HD22	26:X2:179:LEU:HD12	1.97	0.46
26:X4:153:ASN:HA	26:X4:156:GLU:OE1	2.16	0.46
28:Z4:247:ASP:HB2	28:Z4:254:ILE:HG13	1.98	0.46
2:A2:864:ARG:HB3	6:D1:609:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1148:ARG:O	3:A5:173:ASN:HB3	2.06	0.46
1:A3:1120:ASP:O	3:A6:595:GLU:HG2	2.15	0.46
1:A3:1169:LEU:HG	3:A6:594:LEU:CD1	2.44	0.46
1:A3:1186:TRP:CE3	3:A6:617:VAL:CG1	2.99	0.46
1:A3:1201:ARG:CD	3:A6:549:ALA:H	2.29	0.46
1:A3:1230:TYR:HD2	2:A4:726:ALA:O	1.90	0.46
2:A4:80:LYS:HG2	3:A6:386:ALA:H	1.21	0.46
2:A4:85:VAL:CG1	3:A6:395:MET:N	2.79	0.46
2:A4:552:PHE:N	3:A6:107:SER:O	2.49	0.46
2:A4:679:TYR:HA	3:A6:431:PHE:CZ	2.51	0.46
2:A4:728:LYS:CG	3:A6:548:LEU:HD22	2.41	0.46
2:A4:801:THR:C	3:A6:319:TYR:OH	2.55	0.46
2:A4:948:ALA:CA	3:A6:235:TYR:CE1	2.95	0.46
3:A5:999:SER:HB2	11:I5:64:LYS:HE3	1.98	0.46
3:A5:1026:PRO:HD2	11:I5:102:ILE:HD11	1.84	0.46
3:A5:1135:ARG:HG2	5:C5:743:LEU:O	2.15	0.46
3:A6:1367:THR:HG22	28:Z4:876:LEU:N	2.16	0.46
3:A6:1415:PHE:CB	28:Z4:996:LYS:O	2.61	0.46
6:D2:440:PHE:CE1	6:D2:444:LEU:HD11	2.50	0.46
11:I1:881:ILE:N	17:O1:249:ARG:C	2.57	0.46
11:I1:919:ALA:O	15:M1:592:LEU:CG	2.64	0.46
11:I1:924:ILE:CD1	15:M1:596:ILE:CG1	2.88	0.46
11:I1:926:SER:OG	20:R1:156:GLY:CA	2.57	0.46
11:I1:957:SER:HA	20:R1:166:LEU:HD12	1.96	0.46
11:I1:1036:PRO:CA	16:N1:441:PHE:CZ	2.99	0.46
11:I1:1610:VAL:CG1	11:I2:1669:ARG:CZ	2.93	0.46
11:I2:895:ARG:CZ	16:N3:386:MET:CE	2.78	0.46
11:I2:946:THR:CA	17:O3:257:ALA:O	2.61	0.46
11:I2:990:GLU:N	17:O3:275:LEU:HD23	2.30	0.46
11:I2:1030:ARG:HD3	20:R3:175:GLN:OE1	2.12	0.46
11:I2:1036:PRO:CB	17:O3:287:LEU:HD21	2.46	0.46
11:I3:1122:ASN:O	11:I3:1126:HIS:ND1	2.42	0.46
11:I3:1275:SER:HA	26:X1:508:LEU:HG	0.99	0.46
17:O3:90:HIS:N	17:O3:91:PRO:CD	2.79	0.46
21:S1:682:ASN:HA	21:S1:684:THR:HA	1.98	0.46
21:S1:1119:LEU:N	21:S1:1120:PRO:CD	2.79	0.46
21:S2:987:MET:CE	21:S2:991:LYS:HE2	2.45	0.46
21:S4:352:LEU:O	21:S4:374:THR:HA	2.16	0.46
22:T1:828:TRP:O	22:T1:830:VAL:HG23	2.16	0.46
22:T2:828:TRP:O	22:T2:830:VAL:HG23	2.16	0.46
22:T2:829:MET:CE	22:T2:849:LEU:HD12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T3:702:SER:HB3	22:T3:704:LYS:HE3	1.97	0.46
22:T3:777:ILE:O	22:T3:780:PRO:HG3	2.16	0.46
22:T3:828:TRP:O	22:T3:830:VAL:HG23	2.16	0.46
23:U3:431:ILE:H	23:U3:431:ILE:CD1	2.28	0.46
23:U4:284:SER:O	23:U4:288:ILE:HG12	2.16	0.46
24:V2:526:HIS:C	24:V2:530:ARG:HD2	2.37	0.46
25:W1:95:HIS:NE2	25:W1:138:PRO:HB3	2.31	0.46
25:W3:257:LEU:HA	25:W3:273:GLY:HA2	1.98	0.46
27:Y2:140:LEU:O	27:Y2:142:PRO:HD3	2.15	0.46
27:Y3:16:VAL:HG12	27:Y3:63:TRP:HD1	1.81	0.46
1:A1:1070:ASP:OD2	11:I1:1238:LYS:CG	2.64	0.46
2:A2:779:ASP:HB3	6:D1:679:ILE:N	2.31	0.46
2:A2:780:GLU:O	6:D1:676:ALA:N	2.48	0.46
2:A2:976:LEU:HD12	6:D1:501:LEU:HD13	1.32	0.46
2:A2:1142:PHE:CD1	3:A5:566:GLY:CA	2.95	0.46
2:A2:1344:ALA:O	2:A2:1345:SER:HB2	2.16	0.46
1:A3:1241:ARG:C	3:A6:586:CYS:HA	2.36	0.46
1:A3:1243:SER:N	3:A6:585:ASN:CA	2.78	0.46
1:A3:1395:LYS:N	3:A6:227:SER:OG	2.48	0.46
2:A4:673:HIS:ND1	3:A6:98:LEU:N	2.51	0.46
2:A4:701:ILE:HG23	3:A6:464:PRO:HB2	1.97	0.46
2:A4:718:GLU:O	3:A6:121:PRO:HB3	2.16	0.46
2:A4:735:ALA:N	3:A6:92:ASP:CB	2.79	0.46
2:A4:735:ALA:CB	3:A6:682:ARG:HG2	2.43	0.46
2:A4:737:PRO:CD	3:A6:93:ASP:OD2	2.64	0.46
2:A4:801:THR:HA	3:A6:379:VAL:O	2.16	0.46
2:A4:867:GLU:CA	6:D3:605:THR:CG2	2.94	0.46
2:A4:868:GLN:CG	6:D3:570:VAL:HG11	2.17	0.46
2:A4:947:LYS:NZ	3:A6:220:VAL:N	2.64	0.46
2:A4:975:GLU:N	6:D3:496:LEU:HA	2.31	0.46
3:A5:1003:PHE:HD2	11:I5:62:GLU:OE1	1.98	0.46
3:A5:1027:HIS:NE2	11:I5:65:LYS:HB2	2.15	0.46
3:A5:1395:LYS:CG	28:Z2:873:LEU:CA	2.61	0.46
3:A5:1398:LYS:HB2	28:Z2:874:ASN:HA	1.97	0.46
6:D5:440:PHE:CE1	6:D5:444:LEU:HD11	2.50	0.46
6:D7:179:ASP:OD1	11:I3:49:PRO:CB	2.33	0.46
8:F1:302:PRO:O	8:F1:355:ARG:NE	2.49	0.46
8:F2:332:VAL:O	8:F2:336:ALA:N	2.48	0.46
11:I1:952:LEU:HD12	16:N1:400:LEU:HD21	0.46	0.46
11:I1:992:ILE:N	15:M1:608:LYS:CA	2.37	0.46
11:I2:841:PHE:O	15:M3:591:ASP:CB	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:934:LEU:HD12	15:M3:603:SER:N	2.14	0.46
11:I2:978:LYS:HZ1	20:R3:154:ALA:N	2.14	0.46
11:I2:983:LEU:O	15:M3:613:ASP:CA	2.64	0.46
11:I2:989:GLY:CA	15:M3:614:ASP:OD2	2.58	0.46
11:I2:1426:SER:CB	12:J2:263:MET:SD	3.04	0.46
11:I4:1584:LEU:HD21	12:J4:275:PHE:CE1	2.51	0.46
17:O2:108:VAL:N	17:O2:109:PRO:CD	2.78	0.46
21:S1:449:ASP:HB2	21:S1:467:ASN:ND2	2.31	0.46
21:S1:882:GLN:C	21:S1:884:ARG:N	2.69	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
22:T1:702:SER:HB3	22:T1:704:LYS:HE3	1.98	0.46
23:U2:159:ASP:OD2	24:V2:319:LEU:HB2	2.15	0.46
24:V1:360:LYS:HG3	24:V1:366:PRO:HA	1.97	0.46
24:V3:156:THR:HG22	24:V3:514:ARG:CD	2.45	0.46
24:V3:360:LYS:HG3	24:V3:366:PRO:HA	1.97	0.46
24:V4:156:THR:HG22	24:V4:514:ARG:CD	2.45	0.46
25:W4:257:LEU:HA	25:W4:273:GLY:HA2	1.98	0.46
28:Z2:177:PHE:CD1	28:Z2:183:LEU:HD22	2.51	0.46
1:A1:1098:ARG:NH2	11:I1:1421:ARG:NH2	2.64	0.45
1:A1:1220:PRO:C	2:A2:645:PHE:C	2.68	0.45
2:A2:871:ASN:N	6:D1:571:SER:N	2.60	0.45
2:A2:1132:PRO:HG3	3:A5:160:ILE:HA	1.97	0.45
1:A3:1161:ALA:O	3:A6:648:TYR:CA	2.64	0.45
1:A3:1236:GLN:HG2	3:A6:573:ARG:HH11	1.81	0.45
2:A4:680:LEU:CD2	3:A6:470:ARG:HE	2.26	0.45
2:A4:691:LYS:CE	3:A6:316:ARG:HB2	2.45	0.45
2:A4:763:LEU:HD21	3:A6:470:ARG:HD3	1.52	0.45
2:A4:821:ALA:O	3:A6:138:LEU:CD1	2.63	0.45
2:A4:852:ASP:OD2	3:A6:154:GLY:C	2.54	0.45
2:A4:875:LEU:HD12	6:D3:567:LEU:HD23	0.68	0.45
2:A4:880:ALA:HB2	6:D3:562:GLY:O	2.03	0.45
2:A4:892:SER:HA	3:A6:232:LEU:HB2	1.95	0.45
2:A4:925:LYS:HZ3	3:A6:233:THR:C	2.20	0.45
2:A4:980:ARG:HB2	6:D3:473:GLU:HA	1.30	0.45
2:A4:1055:ARG:CD	6:D4:762:ARG:HA	2.40	0.45
3:A6:486:GLN:CB	6:D3:671:ALA:O	2.64	0.45
6:D4:440:PHE:CE1	6:D4:444:LEU:HD11	2.50	0.45
8:F1:1264:ARG:HE	17:O2:263:GLN:HG3	1.18	0.45
9:G1:263:MET:HB2	17:O2:260:LEU:HB2	1.98	0.45
11:I1:949:CYS:N	17:O1:253:LEU:C	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:976:ARG:HB2	20:R1:149:ARG:CB	2.29	0.45
11:I1:1051:LYS:N	17:O1:290:TYR:CD2	2.77	0.45
11:I2:931:VAL:CB	15:M3:600:ASN:C	2.69	0.45
11:I2:977:ASN:O	20:R3:148:ALA:HA	2.12	0.45
11:I2:1046:HIS:O	17:O3:284:LYS:HA	2.13	0.45
11:I2:1048:GLU:HG2	17:O3:288:GLU:OE2	2.15	0.45
11:I2:1061:ASP:OD2	17:O3:278:GLU:HB2	2.16	0.45
11:I2:1064:LYS:O	17:O3:274:GLY:C	2.55	0.45
11:I2:1065:SER:CA	17:O3:274:GLY:O	2.64	0.45
11:I3:1426:SER:CB	12:J3:263:MET:SD	3.04	0.45
11:I4:1370:VAL:CG2	12:J4:259:THR:HG21	2.41	0.45
11:I5:1426:SER:CB	12:J5:263:MET:SD	3.04	0.45
17:O1:90:HIS:N	17:O1:91:PRO:CD	2.79	0.45
19:Q2:192:GLN:HG2	19:Q2:232:PHE:CD2	2.51	0.45
19:Q4:192:GLN:HG2	19:Q4:232:PHE:CD2	2.51	0.45
21:S1:1001:PHE:HB2	21:S1:1057:TYR:CE1	2.51	0.45
21:S3:948:LYS:HE3	21:S3:948:LYS:HB2	1.72	0.45
21:S3:1027:THR:OG1	21:S3:1029:PRO:HD2	2.16	0.45
21:S3:1119:LEU:N	21:S3:1120:PRO:CD	2.79	0.45
21:S4:449:ASP:HB2	21:S4:467:ASN:ND2	2.31	0.45
21:S4:682:ASN:HA	21:S4:684:THR:HA	1.98	0.45
22:T2:902:GLN:O	22:T2:906:GLU:HG2	2.17	0.45
22:T3:902:GLN:O	22:T3:906:GLU:HG2	2.16	0.45
22:T3:917:ASP:OD1	22:T3:921:TYR:N	2.47	0.45
22:T4:911:LEU:HD23	22:T4:914:GLN:NE2	2.30	0.45
23:U1:207:SER:O	23:U1:211:ILE:HG13	2.16	0.45
24:V1:304:VAL:HG13	24:V1:323:ILE:HG22	1.97	0.45
25:W2:9:ASN:HD22	25:W2:9:ASN:HA	1.47	0.45
25:W2:95:HIS:NE2	25:W2:138:PRO:HB3	2.31	0.45
25:W4:95:HIS:NE2	25:W4:138:PRO:HB3	2.31	0.45
26:X2:406:LEU:HB2	26:X2:407:PRO:HD3	1.98	0.45
26:X3:249:LEU:O	26:X3:253:VAL:HG23	2.15	0.45
2:A2:970:PHE:HB2	6:D1:202:GLN:NE2	2.31	0.45
2:A2:980:ARG:NE	6:D1:503:LEU:HB2	2.29	0.45
1:A3:1192:GLN:O	3:A6:675:ALA:HB1	2.15	0.45
2:A4:241:VAL:HG11	2:A4:287:LYS:HB3	1.98	0.45
2:A4:622:GLY:HA2	3:A6:453:SER:HA	1.98	0.45
2:A4:808:GLN:NE2	3:A6:328:TYR:CD2	2.84	0.45
2:A4:822:ILE:HG23	3:A6:526:ILE:HD13	1.68	0.45
2:A4:852:ASP:CG	3:A6:155:TYR:HA	2.37	0.45
2:A4:854:VAL:CG1	3:A6:171:HIS:CB	2.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:860:GLU:CG	3:A6:135:PHE:HE2	2.27	0.45
2:A4:944:SER:OG	3:A6:200:VAL:HG21	2.15	0.45
2:A4:975:GLU:O	6:D3:496:LEU:CB	2.63	0.45
3:A5:1054:SER:O	11:I5:37:GLU:CG	2.63	0.45
3:A6:484:PRO:CB	6:D3:672:GLU:CD	2.83	0.45
3:A6:790:ASP:OD1	3:A6:790:ASP:N	2.35	0.45
6:D3:646:LEU:HD22	6:D3:696:ILE:HD11	1.98	0.45
6:D6:422:CYS:SG	6:D6:423:PHE:N	2.88	0.45
6:D7:646:LEU:HD22	6:D7:696:ILE:HD11	1.98	0.45
8:F1:332:VAL:O	8:F1:336:ALA:N	2.48	0.45
8:F1:1133:ARG:NH2	8:F1:1194:ASP:OD1	2.49	0.45
8:F1:1202:TYR:CA	17:O2:252:VAL:HG22	2.44	0.45
8:F2:1571:VAL:O	8:F2:1574:ILE:HG13	2.16	0.45
11:I1:1018:LYS:H	16:N1:412:ASN:HB3	1.81	0.45
11:I2:841:PHE:CD2	15:M3:588:MET:HE2	2.52	0.45
11:I2:879:VAL:HG12	17:O3:247:TRP:HB3	1.96	0.45
11:I2:994:ALA:O	17:O3:267:ALA:CB	2.53	0.45
11:I2:1016:ARG:CA	16:N3:408:MET:O	2.64	0.45
11:I4:702:GLN:OE1	11:I4:702:GLN:N	2.41	0.45
16:N2:284:PRO:HA	16:N2:287:VAL:HG12	1.98	0.45
17:O2:90:HIS:N	17:O2:91:PRO:CD	2.79	0.45
21:S2:1001:PHE:HB2	21:S2:1057:TYR:CE1	2.51	0.45
21:S4:1027:THR:OG1	21:S4:1029:PRO:HD2	2.16	0.45
22:T1:917:ASP:OD1	22:T1:921:TYR:N	2.47	0.45
22:T2:777:ILE:O	22:T2:780:PRO:HG3	2.15	0.45
23:U1:144:TRP:CH2	23:U1:158:LEU:HA	2.51	0.45
24:V2:304:VAL:HG13	24:V2:323:ILE:HG22	1.97	0.45
24:V4:178:THR:HG22	24:V4:180:LEU:H	1.81	0.45
24:V4:526:HIS:C	24:V4:530:ARG:HD2	2.37	0.45
25:W1:16:VAL:HG21	25:W1:59:VAL:O	2.16	0.45
25:W1:116:LEU:O	25:W1:127:VAL:HA	2.16	0.45
25:W3:95:HIS:NE2	25:W3:138:PRO:HB3	2.31	0.45
26:X2:97:ARG:HB3	26:X2:97:ARG:NH1	2.32	0.45
26:X2:226:GLN:O	26:X2:230:VAL:HG23	2.15	0.45
26:X3:153:ASN:HA	26:X3:156:GLU:OE1	2.16	0.45
26:X3:268:SER:O	26:X3:272:PRO:HG2	2.16	0.45
26:X4:268:SER:O	26:X4:272:PRO:HG2	2.16	0.45
28:Z4:436:HIS:NE2	28:Z4:438:GLU:HB2	2.31	0.45
1:A1:1229:VAL:CG2	2:A2:725:GLU:HG3	2.42	0.45
2:A2:1137:ALA:CB	3:A5:564:ASN:ND2	2.76	0.45
2:A2:1155:ASN:HD21	5:C2:735:ILE:HG23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1160:GLN:HA	3:A5:178:GLY:HA2	1.95	0.45
1:A3:1088:ASN:CA	6:D3:808:ASN:HB3	2.33	0.45
1:A3:1130:ARG:NH2	3:A6:650:GLY:O	0.60	0.45
1:A3:1184:ASP:H	3:A6:642:ARG:NH2	2.12	0.45
1:A3:1186:TRP:CZ3	3:A6:583:LEU:HD22	2.51	0.45
1:A3:1189:LEU:CD1	3:A6:641:ALA:CB	2.95	0.45
1:A3:1195:PHE:HA	3:A6:679:TYR:H	1.82	0.45
1:A3:1221:ILE:HD12	2:A4:614:ALA:O	2.15	0.45
1:A3:1328:ARG:CG	3:A6:127:HIS:O	2.64	0.45
2:A4:540:GLN:OE1	3:A6:359:LEU:N	2.38	0.45
2:A4:691:LYS:HE3	3:A6:332:ASN:HA	1.99	0.45
2:A4:715:GLU:HG3	3:A6:515:THR:O	2.15	0.45
2:A4:765:GLU:O	3:A6:471:PHE:HD2	1.90	0.45
2:A4:946:LYS:CG	4:B6:350:GLU:OE2	2.64	0.45
3:A5:160:ILE:O	5:C2:744:PHE:CG	2.65	0.45
3:A5:1316:VAL:HG23	28:Z2:833:ASP:CA	2.47	0.45
3:A6:1398:LYS:CD	28:Z4:921:THR:H	2.21	0.45
6:D1:781:ARG:NH1	6:D1:784:GLN:OE1	2.49	0.45
8:F1:1264:ARG:CB	17:O2:262:ASP:O	2.35	0.45
8:F1:1832:ASN:OD1	8:F1:1833:ARG:HG3	2.16	0.45
11:I1:936:LYS:CE	15:M1:612:PRO:HG3	2.46	0.45
11:I1:940:LEU:HB3	17:O1:262:ASP:HB2	0.91	0.45
11:I1:951:LYS:O	16:N1:403:VAL:N	2.42	0.45
11:I1:1020:ALA:C	16:N1:409:ALA:HB3	2.35	0.45
11:I1:1051:LYS:CD	17:O1:289:ASP:H	2.21	0.45
11:I1:1109:LEU:HA	16:N1:442:GLU:H	1.81	0.45
11:I1:1639:LEU:HD22	11:I2:1670:GLY:CA	2.45	0.45
11:I1:1659:VAL:O	11:I2:1663:LYS:CE	2.58	0.45
11:I1:1668:HIS:N	11:I2:1665:LEU:HA	2.31	0.45
11:I2:1033:PRO:HG3	20:R3:177:LEU:HD13	1.89	0.45
11:I2:1036:PRO:HB3	15:M3:623:LEU:HD12	1.31	0.45
11:I3:1277:LEU:CD2	26:X1:518:ASP:C	2.79	0.45
17:O4:108:VAL:N	17:O4:109:PRO:CD	2.79	0.45
21:S3:1001:PHE:HB2	21:S3:1057:TYR:CE1	2.51	0.45
22:T1:887:LYS:HB3	22:T1:890:LEU:HD12	1.98	0.45
23:U4:8:GLN:C	23:U4:10:GLU:N	2.68	0.45
23:U4:219:LEU:HD22	23:U4:227:ILE:HG12	1.98	0.45
26:X3:97:ARG:HB3	26:X3:97:ARG:NH1	2.32	0.45
27:Y2:208:LEU:HD11	27:Y2:231:ILE:CD1	2.46	0.45
28:Z1:130:THR:O	28:Z1:150:PHE:HA	2.17	0.45
28:Z2:130:THR:O	28:Z2:150:PHE:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1392:ARG:CD	2:A2:891:GLY:HA3	2.47	0.45
2:A2:241:VAL:HG11	2:A2:287:LYS:HB3	1.98	0.45
2:A2:942:ASN:ND2	3:A5:597:GLU:OE1	2.50	0.45
2:A2:978:ASP:O	6:D1:476:VAL:CB	2.64	0.45
2:A2:1152:ASP:O	3:A5:175:GLU:O	2.34	0.45
2:A2:1289:HIS:CE1	2:A2:1329:GLU:HG3	2.51	0.45
1:A3:1163:TYR:CA	3:A6:647:GLU:HB2	2.38	0.45
1:A3:1166:LEU:C	3:A6:594:LEU:CB	2.77	0.45
1:A3:1233:GLN:OE1	3:A6:575:LEU:HD13	2.15	0.45
1:A3:1268:ASP:CA	3:A6:553:ASP:C	2.77	0.45
1:A3:1392:ARG:H	3:A6:225:THR:C	2.19	0.45
2:A4:545:GLY:N	3:A6:365:MET:N	2.65	0.45
2:A4:679:TYR:OH	3:A6:109:ASP:CB	2.64	0.45
2:A4:726:ALA:HB1	3:A6:575:LEU:HD13	1.97	0.45
2:A4:772:SER:N	3:A6:477:PHE:CB	2.46	0.45
2:A4:806:PHE:HB3	3:A6:470:ARG:CA	2.46	0.45
2:A4:818:LEU:C	3:A6:147:LEU:HB3	2.29	0.45
2:A4:886:PHE:CA	3:A6:174:PRO:O	2.63	0.45
2:A4:894:THR:CA	3:A6:166:LEU:HB2	2.44	0.45
2:A4:895:PRO:HB2	3:A6:179:TYR:CG	2.42	0.45
2:A4:1023:ILE:CG2	2:A4:1025:SER:HB3	2.47	0.45
2:A4:1289:HIS:CE1	2:A4:1329:GLU:HG3	2.51	0.45
3:A5:919:LEU:CB	11:I5:61:LYS:NZ	2.78	0.45
3:A5:1151:THR:CA	5:C5:733:LEU:HD13	2.40	0.45
3:A5:1416:ARG:O	28:Z2:963:LYS:CA	2.61	0.45
3:A6:1395:LYS:H	28:Z4:912:ASP:C	2.19	0.45
3:A6:1413:SER:O	28:Z4:994:ILE:C	2.54	0.45
5:C1:732:LYS:HE2	11:I1:1228:GLU:OE1	2.16	0.45
6:D3:781:ARG:NH1	6:D3:784:GLN:OE1	2.49	0.45
8:F1:1267:ARG:N	17:O2:265:ASN:HB3	2.31	0.45
9:G1:254:ASN:ND2	15:M2:606:LEU:CA	2.51	0.45
11:I1:948:ALA:H	17:O1:256:TYR:CB	2.28	0.45
11:I1:963:LEU:HD23	20:R1:168:LEU:HD11	1.98	0.45
11:I1:1361:ALA:O	11:I1:1365:ALA:N	2.50	0.45
11:I1:1669:ARG:NH1	11:I2:1642:LEU:CD1	2.25	0.45
11:I1:1674:HIS:CE1	11:I2:1636:TYR:HH	2.28	0.45
11:I1:1677:LYS:HZ1	11:I2:1543:LEU:HD13	1.79	0.45
11:I2:923:GLY:H	15:M3:592:LEU:N	2.11	0.45
11:I2:930:LEU:HB3	15:M3:597:LYS:O	2.16	0.45
11:I2:1020:ALA:CA	16:N3:410:MET:N	2.64	0.45
11:I2:1041:GLN:H	15:M3:620:VAL:HG23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1050:SER:N	17:O3:291:ASP:HB2	2.32	0.45
11:I3:1584:LEU:HD21	12:J3:275:PHE:CE1	2.51	0.45
11:I4:504:ALA:CB	11:I4:508:LEU:HD23	2.46	0.45
11:I5:1584:LEU:HD21	12:J5:275:PHE:CE1	2.51	0.45
17:O3:147:ALA:O	18:P3:328:PRO:CB	2.64	0.45
19:Q3:192:GLN:HG2	19:Q3:232:PHE:CD2	2.51	0.45
21:S1:619:GLY:HA2	21:S1:620:LEU:CB	2.47	0.45
21:S2:352:LEU:O	21:S2:374:THR:HA	2.15	0.45
21:S2:975:LYS:HD3	22:T2:882:SER:HB2	1.98	0.45
22:T1:885:ARG:CG	22:T1:885:ARG:NH1	2.73	0.45
24:V2:173:ILE:HD11	25:W2:43:HIS:HD2	1.82	0.45
26:X1:97:ARG:NH2	26:X1:411:SER:O	2.50	0.45
26:X2:153:ASN:HA	26:X2:156:GLU:OE1	2.16	0.45
28:Z1:623:LEU:HD23	28:Z1:623:LEU:HA	1.74	0.45
28:Z3:130:THR:O	28:Z3:150:PHE:HA	2.16	0.45
28:Z4:490:VAL:HG22	28:Z4:590:GLN:HG3	1.98	0.45
1:A1:874:VAL:HG13	6:D3:272:VAL:CB	2.37	0.45
2:A2:200:VAL:HG23	4:B2:351:GLU:O	2.11	0.45
2:A2:235:TYR:CD1	4:B2:347:LEU:CB	2.76	0.45
2:A2:705:ILE:N	2:A2:706:PRO:HD2	2.32	0.45
2:A2:870:HIS:NE2	6:D1:551:PHE:CA	2.77	0.45
2:A2:874:VAL:HG23	6:D1:571:SER:HB2	1.51	0.45
1:A3:1114:ILE:HA	3:A6:590:SER:CB	2.46	0.45
1:A3:1226:LEU:CB	3:A6:551:GLN:CG	2.89	0.45
1:A3:1251:VAL:N	3:A6:633:MET:HB3	2.30	0.45
1:A3:1282:PHE:CE1	3:A6:622:GLY:O	2.70	0.45
2:A4:84:VAL:HB	3:A6:384:ILE:HG21	1.99	0.45
2:A4:711:VAL:C	3:A6:516:TRP:CE2	2.87	0.45
2:A4:764:MET:HG3	3:A6:473:PRO:O	1.61	0.45
2:A4:768:SER:N	3:A6:477:PHE:CD2	2.38	0.45
2:A4:799:ASP:OD1	3:A6:316:ARG:C	2.55	0.45
2:A4:875:LEU:C	6:D3:564:ASN:CB	2.83	0.45
2:A4:973:GLU:O	6:D3:499:LEU:HD11	2.16	0.45
2:A4:1151:THR:C	5:C4:733:LEU:HD12	2.33	0.45
3:A5:996:ASN:HD21	11:I5:58:ALA:CB	2.14	0.45
3:A5:1312:ARG:CZ	28:Z2:832:PHE:O	2.61	0.45
3:A6:446:LEU:CD2	6:D3:721:PRO:HB3	2.47	0.45
3:A6:1391:ARG:CG	28:Z4:908:LEU:O	2.59	0.45
3:A6:1392:ARG:HB2	28:Z4:910:GLN:CA	2.44	0.45
6:D3:436:THR:HG23	6:D3:439:GLN:H	1.82	0.45
6:D5:482:MET:SD	6:D5:482:MET:N	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:173:THR:O	8:F2:177:ARG:NH1	2.50	0.45
11:I1:873:ILE:CG2	17:O1:254:ARG:C	2.84	0.45
11:I1:956:ILE:HG23	20:R1:166:LEU:CD2	2.46	0.45
11:I1:965:ALA:HB3	20:R1:164:PRO:CA	2.47	0.45
11:I1:1061:ASP:N	17:O1:279:ILE:CD1	2.80	0.45
11:I1:1605:LEU:HB2	11:I2:1669:ARG:HE	1.72	0.45
11:I1:1677:LYS:CD	11:I2:1635:HIS:CE1	2.75	0.45
11:I2:846:ILE:CG2	15:M3:591:ASP:OD1	2.62	0.45
11:I2:944:GLU:HG2	17:O3:256:TYR:HE1	1.81	0.45
11:I2:965:ALA:N	20:R3:165:SER:OG	2.49	0.45
11:I2:1044:GLY:N	15:M3:616:LEU:HD13	2.25	0.45
11:I2:1186:PRO:CB	17:O4:225:GLN:NE2	2.67	0.45
11:I4:1275:SER:O	26:X3:518:ASP:N	2.48	0.45
11:I5:1116:ASP:OD2	12:J5:241:THR:HG21	2.17	0.45
11:I5:1314:LEU:O	11:I5:1314:LEU:HD23	2.17	0.45
16:N1:284:PRO:HA	16:N1:287:VAL:HG12	1.98	0.45
16:N3:284:PRO:HA	16:N3:287:VAL:HG12	1.98	0.45
17:O1:104:ASP:OD2	18:P1:322:LYS:CD	2.64	0.45
21:S1:666:THR:O	21:S2:1146:ALA:C	2.48	0.45
21:S1:1143:VAL:HA	21:S1:1146:ALA:CB	2.41	0.45
21:S2:882:GLN:C	21:S2:884:ARG:N	2.69	0.45
21:S2:1027:THR:OG1	21:S2:1029:PRO:HD2	2.16	0.45
21:S3:184:ILE:CD1	21:S3:201:VAL:HG23	2.46	0.45
21:S3:352:LEU:O	21:S3:374:THR:HA	2.16	0.45
21:S4:882:GLN:C	21:S4:884:ARG:N	2.69	0.45
23:U3:207:SER:O	23:U3:211:ILE:HG13	2.16	0.45
23:U3:219:LEU:HD22	23:U3:227:ILE:HG12	1.98	0.45
23:U4:159:ASP:OD2	24:V4:319:LEU:HB2	2.16	0.45
23:U4:431:ILE:H	23:U4:431:ILE:CD1	2.28	0.45
24:V4:360:LYS:HG3	24:V4:366:PRO:HA	1.97	0.45
25:W4:18:ASP:OD1	25:W4:18:ASP:N	2.46	0.45
26:X1:97:ARG:HB3	26:X1:97:ARG:NH1	2.32	0.45
26:X2:268:SER:O	26:X2:272:PRO:HG2	2.16	0.45
27:Y2:124:LYS:HG3	27:Y2:138:ASP:OD1	2.17	0.45
28:Z2:623:LEU:HD23	28:Z2:623:LEU:HA	1.74	0.45
1:A1:1399:ARG:HB3	2:A2:884:ARG:HB3	1.99	0.45
2:A2:782:VAL:CA	6:D1:677:GLN:HA	2.46	0.45
2:A2:871:ASN:CA	6:D1:567:LEU:O	2.60	0.45
2:A2:980:ARG:NE	6:D1:525:ARG:C	2.66	0.45
2:A2:1160:GLN:CD	3:A5:166:LEU:N	2.68	0.45
2:A2:1290:ALA:CB	2:A2:1349:ALA:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:861:GLN:HB2	1:A3:882:SER:HB3	1.99	0.45
1:A3:1192:GLN:CA	3:A6:645:PHE:HE2	2.29	0.45
2:A4:87:GLN:H	3:A6:392:LEU:CA	2.29	0.45
2:A4:706:PRO:HD2	3:A6:463:ASP:C	2.35	0.45
2:A4:713:ILE:HA	3:A6:436:PRO:HD3	1.98	0.45
2:A4:761:GLN:CG	3:A6:545:GLY:HA2	2.35	0.45
2:A4:763:LEU:HD11	3:A6:470:ARG:CD	2.46	0.45
2:A4:776:MET:CB	3:A6:519:LEU:CD1	2.95	0.45
2:A4:877:ALA:H	6:D3:563:GLU:HB3	1.80	0.45
2:A4:982:THR:C	6:D3:502:LEU:HD22	2.35	0.45
3:A5:861:GLN:HB2	3:A5:882:SER:HB3	1.99	0.45
3:A5:1364:GLN:HE21	28:Z2:843:LYS:CA	2.20	0.45
3:A6:1399:ARG:CZ	28:Z4:964:LEU:O	2.63	0.45
6:D1:382:ASN:OD1	6:D1:383:THR:N	2.50	0.45
6:D2:587:LEU:HD13	6:D2:631:LEU:HA	1.99	0.45
6:D3:743:HIS:NE2	11:I2:1528:ARG:CD	2.76	0.45
8:F1:1113:LYS:N	8:F1:1114:PRO:HD2	2.32	0.45
8:F1:1262:HIS:CB	17:O2:259:ASP:HA	2.42	0.45
8:F2:302:PRO:O	8:F2:355:ARG:NE	2.49	0.45
8:F2:1643:CYS:SG	8:F2:1644:ASP:N	2.90	0.45
11:I1:846:ILE:HA	17:O1:247:TRP:CH2	2.52	0.45
11:I1:849:LEU:CD1	17:O1:247:TRP:CG	2.98	0.45
11:I1:890:TYR:HA	17:O1:238:ALA:HB3	1.98	0.45
11:I1:917:TYR:OH	15:M1:590:LYS:HE3	2.16	0.45
11:I1:1021:ILE:CA	16:N1:406:HIS:CE1	2.92	0.45
11:I1:1046:HIS:HB3	17:O1:284:LYS:N	2.32	0.45
11:I1:1110:SER:HA	16:N1:438:LEU:CB	2.40	0.45
11:I2:993:SER:N	15:M3:608:LYS:HG3	2.24	0.45
11:I2:1017:VAL:CG2	17:O3:260:LEU:HD21	2.25	0.45
11:I2:1041:GLN:O	17:O3:275:LEU:HD11	2.16	0.45
11:I2:1051:LYS:CD	17:O3:285:LYS:CD	2.90	0.45
11:I2:1066:LEU:HD23	16:N3:430:ARG:HD2	1.70	0.45
11:I4:813:ILE:C	26:X3:496:THR:HG23	2.33	0.45
11:I4:1314:LEU:O	11:I4:1314:LEU:HD23	2.17	0.45
17:O3:154:ARG:CG	18:P3:324:LEU:HD13	2.41	0.45
19:Q1:192:GLN:HG2	19:Q1:232:PHE:CD2	2.51	0.45
21:S1:666:THR:O	21:S2:1149:GLU:N	2.47	0.45
21:S1:1027:THR:OG1	21:S1:1029:PRO:HD2	2.16	0.45
21:S4:946:LEU:HD23	21:S4:946:LEU:HA	1.82	0.45
21:S4:1016:LYS:NZ	21:S4:1039:GLU:HG3	2.31	0.45
22:T3:829:MET:CE	22:T3:849:LEU:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T3:917:ASP:HB2	22:T3:918:PRO:CD	2.47	0.45
22:T4:702:SER:HB3	22:T4:704:LYS:HE3	1.97	0.45
23:U1:284:SER:O	23:U1:288:ILE:HG12	2.16	0.45
23:U2:116:LEU:O	23:U2:119:ILE:HB	2.17	0.45
23:U2:314:ILE:HD12	24:V2:309:LYS:HE3	1.98	0.45
23:U4:81:LEU:HD13	23:U4:85:ARG:NH2	2.32	0.45
23:U4:159:ASP:OD2	24:V4:319:LEU:N	2.29	0.45
24:V1:392:TYR:O	24:V1:394:GLN:N	2.44	0.45
24:V3:352:ASP:HB3	24:V3:355:ILE:HD13	1.98	0.45
24:V4:173:ILE:HD11	25:W4:43:HIS:HD2	1.82	0.45
25:W2:116:LEU:O	25:W2:127:VAL:HA	2.16	0.45
25:W4:116:LEU:O	25:W4:127:VAL:HA	2.16	0.45
26:X3:97:ARG:NH2	26:X3:411:SER:O	2.50	0.45
26:X3:198:GLU:HG2	26:X3:300:SER:CB	2.47	0.45
26:X4:97:ARG:NH2	26:X4:411:SER:O	2.50	0.45
27:Y2:296:LEU:HD21	27:Y2:299:GLU:HG3	1.98	0.45
27:Y4:16:VAL:HG12	27:Y4:63:TRP:HD1	1.81	0.45
27:Y4:124:LYS:HG3	27:Y4:138:ASP:OD1	2.17	0.45
27:Y4:208:LEU:HD11	27:Y4:231:ILE:CD1	2.46	0.45
27:Y4:296:LEU:HD21	27:Y4:299:GLU:HG3	1.98	0.45
28:Z1:247:ASP:HB2	28:Z1:254:ILE:HG13	1.98	0.45
28:Z1:739:PHE:O	28:Z1:743:ASN:N	2.36	0.45
28:Z2:291:LEU:HA	28:Z2:292:PRO:HD3	1.76	0.45
2:A2:1132:PRO:HG3	3:A5:159:SER:O	2.17	0.45
2:A2:1134:GLU:O	3:A5:147:LEU:CD1	2.64	0.45
1:A3:1047:CYS:O	6:D3:812:VAL:CG1	2.64	0.45
2:A4:91:LEU:HD12	3:A6:104:PRO:HG3	1.93	0.45
2:A4:172:PRO:HB3	6:D3:781:ARG:NE	2.31	0.45
2:A4:779:ASP:OD1	3:A6:486:GLN:C	2.54	0.45
2:A4:828:ALA:O	2:A4:867:GLU:OE1	2.34	0.45
2:A4:1344:ALA:O	2:A4:1345:SER:HB2	2.16	0.45
3:A5:1092:ASN:CA	11:I5:33:THR:HG22	2.31	0.45
6:D3:482:MET:N	6:D3:482:MET:SD	2.90	0.45
6:D5:781:ARG:NH1	6:D5:784:GLN:OE1	2.49	0.45
6:D7:436:THR:HG23	6:D7:439:GLN:H	1.81	0.45
6:D7:482:MET:N	6:D7:482:MET:SD	2.90	0.45
9:G1:270:ARG:HB2	16:N2:414:ALA:CA	2.47	0.45
11:I1:834:SER:HA	17:O1:236:ASP:O	2.17	0.45
11:I1:877:ILE:HD12	17:O1:251:ILE:O	2.15	0.45
11:I1:881:ILE:CD1	17:O1:253:LEU:HD11	2.42	0.45
11:I1:915:ALA:HB1	15:M1:585:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:959:SER:OG	16:N1:395:GLU:HB2	2.16	0.45
11:I1:1067:PHE:CE1	16:N1:433:GLU:N	2.85	0.45
11:I1:1104:LEU:CD2	16:N1:437:VAL:HG23	2.47	0.45
11:I1:1187:SER:HB3	17:O2:221:ASP:HB2	1.99	0.45
11:I1:1663:LYS:HD3	11:I2:1662:ARG:HB2	1.99	0.45
11:I3:504:ALA:CB	11:I3:508:LEU:HD23	2.46	0.45
11:I3:1282:PHE:CG	26:X1:520:GLU:HB3	2.28	0.45
21:S1:655:ASN:N	21:S2:1156:ILE:CA	2.76	0.45
21:S1:670:ILE:CB	21:S2:1149:GLU:CB	2.95	0.45
21:S1:975:LYS:HD3	22:T1:882:SER:HB2	1.98	0.45
21:S4:1119:LEU:N	21:S4:1120:PRO:CD	2.79	0.45
22:T2:885:ARG:HG3	22:T2:885:ARG:NH1	2.17	0.45
22:T2:887:LYS:HB3	22:T2:890:LEU:HD12	1.98	0.45
22:T2:891:VAL:O	22:T2:891:VAL:HG12	2.17	0.45
22:T3:887:LYS:HB3	22:T3:890:LEU:HD12	1.98	0.45
24:V1:352:ASP:HB3	24:V1:355:ILE:HD13	1.97	0.45
24:V3:178:THR:HG22	24:V3:180:LEU:H	1.81	0.45
26:X1:268:SER:O	26:X1:272:PRO:HG2	2.17	0.45
26:X2:159:ILE:HG12	26:X2:175:LEU:CB	2.39	0.45
26:X3:239:VAL:HB	26:X3:240:PHE:H	1.59	0.45
26:X4:159:ILE:HG12	26:X4:175:LEU:CB	2.39	0.45
27:Y1:208:LEU:HD11	27:Y1:231:ILE:CD1	2.46	0.45
28:Z3:247:ASP:HB2	28:Z3:254:ILE:HG13	1.98	0.45
2:A2:397:LEU:HD12	2:A2:468:GLY:HA3	1.98	0.45
2:A2:868:GLN:HB3	6:D1:570:VAL:HB	1.99	0.45
2:A2:868:GLN:CB	6:D1:598:ILE:CD1	2.87	0.45
2:A2:1125:LEU:HB2	3:A5:135:PHE:HB2	1.99	0.45
2:A2:1139:ILE:HG23	3:A5:134:VAL:HB	1.97	0.45
1:A3:1168:LEU:HG	3:A6:643:ALA:HB3	1.97	0.45
1:A3:1220:PRO:HD3	2:A4:646:ILE:HG22	1.05	0.45
1:A3:1236:GLN:OE1	3:A6:578:ILE:CA	2.62	0.45
1:A3:1311:ARG:HD2	3:A6:712:THR:HA	1.94	0.45
2:A4:553:ASP:O	3:A6:371:LEU:CD1	2.65	0.45
2:A4:717:VAL:N	3:A6:512:GLU:CD	2.70	0.45
2:A4:730:THR:CB	3:A6:609:GLU:CG	2.78	0.45
2:A4:753:GLU:HG3	3:A6:93:ASP:O	2.05	0.45
2:A4:760:LEU:CD1	3:A6:98:LEU:HD22	2.46	0.45
2:A4:770:GLY:C	3:A6:477:PHE:CB	2.69	0.45
2:A4:781:ARG:NH1	6:D3:674:TYR:CE1	2.83	0.45
2:A4:985:ALA:CB	6:D3:500:LYS:HA	2.43	0.45
2:A4:1149:THR:HA	5:C4:730:HIS:N	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:996:ASN:OD1	11:I5:53:THR:O	2.34	0.45
3:A5:1378:GLY:C	28:Z2:812:LEU:HA	1.95	0.45
3:A6:1400:SER:CB	28:Z4:961:PHE:CB	2.94	0.45
6:D2:382:ASN:OD1	6:D2:383:THR:N	2.50	0.45
6:D2:781:ARG:NH1	6:D2:784:GLN:OE1	2.49	0.45
6:D4:436:THR:HG23	6:D4:439:GLN:H	1.82	0.45
8:F1:1643:CYS:SG	8:F1:1644:ASP:N	2.90	0.45
9:G1:254:ASN:O	15:M2:606:LEU:CA	2.58	0.45
11:I1:882:LYS:CA	17:O1:245:GLU:C	2.85	0.45
11:I1:917:TYR:O	15:M1:588:MET:SD	2.75	0.45
11:I1:947:LEU:O	16:N1:404:GLU:HA	2.15	0.45
11:I1:1607:GLN:OE1	11:I2:1739:GLU:N	2.40	0.45
11:I1:1667:GLN:NE2	11:I2:1665:LEU:HB2	2.31	0.45
11:I1:1669:ARG:CZ	11:I2:1642:LEU:HD13	2.28	0.45
11:I2:841:PHE:CB	15:M3:588:MET:HA	2.23	0.45
11:I2:849:LEU:HD22	17:O3:251:ILE:HD11	1.99	0.45
11:I2:918:SER:HB2	16:N3:385:MET:HG2	1.99	0.45
11:I2:976:ARG:HB3	20:R3:149:ARG:CB	2.39	0.45
11:I2:1048:GLU:CG	17:O3:288:GLU:CD	2.78	0.45
11:I2:1104:LEU:CB	16:N3:432:TYR:O	2.64	0.45
11:I2:1314:LEU:O	11:I2:1314:LEU:HD23	2.17	0.45
11:I3:1116:ASP:OD2	12:J3:241:THR:HG21	2.17	0.45
21:S2:133:ILE:HG21	21:S2:133:ILE:HD13	1.69	0.45
22:T1:829:MET:CE	22:T1:849:LEU:HD12	2.46	0.45
22:T4:685:ARG:NH2	22:T4:716:PRO:HG2	2.32	0.45
22:T4:829:MET:CE	22:T4:849:LEU:HD12	2.46	0.45
23:U1:159:ASP:OD2	24:V1:319:LEU:N	2.29	0.45
23:U4:157:ASP:OD1	23:U4:163:ARG:NH2	2.46	0.45
24:V2:392:TYR:O	24:V2:394:GLN:N	2.44	0.45
26:X4:186:ARG:HG3	26:X4:190:PHE:HB2	1.97	0.45
28:Z3:490:VAL:HG22	28:Z3:590:GLN:HG3	1.98	0.45
2:A2:827:ILE:CG2	2:A2:863:GLN:HB2	2.47	0.45
2:A2:874:VAL:HG21	6:D1:611:LYS:HG2	1.85	0.45
2:A2:989:MSE:SE	6:D1:241:ALA:CB	3.15	0.45
2:A2:1119:ASP:HA	3:A5:132:ASP:OD2	2.17	0.45
2:A2:1131:ILE:CG2	3:A5:138:LEU:HG	2.41	0.45
2:A2:1135:ARG:H	3:A5:138:LEU:HD22	1.37	0.45
1:A3:1227:PRO:N	3:A6:551:GLN:CB	2.80	0.45
1:A3:1249:PHE:CZ	3:A6:637:THR:OG1	2.69	0.45
1:A3:1250:PRO:HD2	3:A6:637:THR:N	2.29	0.45
2:A4:199:PHE:CA	4:B4:353:LEU:HA	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:691:LYS:CD	3:A6:316:ARG:CB	2.65	0.45
2:A4:825:ARG:NH1	2:A4:826:ASN:OD1	2.42	0.45
2:A4:954:ILE:CB	4:B6:346:LEU:H	2.28	0.45
3:A5:1368:GLN:HB2	28:Z2:840:PHE:O	2.15	0.45
3:A5:1374:ALA:HA	28:Z2:814:THR:HA	1.71	0.45
3:A5:1392:ARG:HG3	28:Z2:867:LYS:N	2.32	0.45
6:D1:650:VAL:HB	6:D1:651:PRO:HD3	1.99	0.45
6:D3:382:ASN:OD1	6:D3:383:THR:N	2.50	0.45
6:D6:436:THR:HG23	6:D6:439:GLN:H	1.82	0.45
6:D6:781:ARG:NH1	6:D6:784:GLN:OE1	2.49	0.45
8:F2:1133:ARG:NH2	8:F2:1194:ASP:OD1	2.49	0.45
9:G2:257:THR:CG2	17:O4:253:LEU:O	2.65	0.45
11:I1:991:THR:CG2	15:M1:608:LYS:HG2	2.47	0.45
11:I1:1021:ILE:HG12	16:N1:406:HIS:CE1	2.51	0.45
11:I1:1116:ASP:OD2	12:J1:241:THR:HG21	2.17	0.45
11:I1:1122:ASN:O	11:I1:1126:HIS:ND1	2.42	0.45
11:I1:1607:GLN:HB3	12:J2:298:PHE:CE1	2.52	0.45
11:I2:950:LEU:CD2	15:M3:606:LEU:CG	2.93	0.45
11:I2:995:SER:HB3	17:O3:267:ALA:O	2.17	0.45
11:I2:1029:LEU:N	20:R3:172:ASP:N	2.65	0.45
11:I2:1042:LEU:O	15:M3:616:LEU:HD22	1.96	0.45
11:I2:1052:LEU:CG	16:N3:438:LEU:HD21	2.47	0.45
11:I2:1108:PRO:O	16:N3:439:ARG:HA	2.06	0.45
11:I2:1110:SER:OG	16:N3:438:LEU:CB	2.46	0.45
11:I3:1275:SER:OG	26:X1:508:LEU:HD11	2.15	0.45
17:O4:90:HIS:N	17:O4:91:PRO:CD	2.79	0.45
18:P2:320:GLN:HG3	18:P3:278:ASN:ND2	2.30	0.45
21:S4:1052:LEU:HA	21:S4:1055:LEU:HD23	1.98	0.45
22:T3:685:ARG:NH2	22:T3:716:PRO:HG2	2.32	0.45
22:T3:891:VAL:O	22:T3:891:VAL:HG12	2.17	0.45
22:T4:822:LEU:HD22	22:T4:886:HIS:CE1	2.52	0.45
23:U2:207:SER:O	23:U2:211:ILE:HG13	2.16	0.45
23:U3:143:LYS:HG3	23:U3:144:TRP:N	2.32	0.45
24:V1:513:MET:HG2	24:V1:541:ALA:HB2	1.99	0.45
24:V2:513:MET:HG2	24:V2:541:ALA:HB2	1.99	0.45
25:W1:16:VAL:HG23	25:W1:59:VAL:HG23	1.98	0.45
25:W3:116:LEU:O	25:W3:127:VAL:HA	2.16	0.45
25:W4:16:VAL:HG23	25:W4:59:VAL:HG23	1.98	0.45
26:X1:268:SER:HB2	26:X1:269:ASP:OD1	2.17	0.45
26:X3:406:LEU:HB2	26:X3:407:PRO:HD3	1.98	0.45
27:Y1:124:LYS:HG3	27:Y1:138:ASP:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:247:ASP:HB2	28:Z2:254:ILE:HG13	1.98	0.45
28:Z3:177:PHE:CD1	28:Z3:183:LEU:HD22	2.51	0.45
28:Z4:643:ASP:OD2	28:Z4:646:ILE:HG13	2.17	0.45
2:A2:782:VAL:H	6:D1:676:ALA:CB	2.30	0.45
2:A2:948:ALA:O	2:A2:952:ARG:HG3	2.17	0.45
2:A2:1023:ILE:CG2	2:A2:1025:SER:HB3	2.47	0.45
2:A2:1135:ARG:HA	3:A5:147:LEU:HD21	1.98	0.45
1:A3:1124:ARG:NH1	3:A6:648:TYR:CG	2.85	0.45
1:A3:1204:TRP:CH2	3:A6:95:TYR:C	2.79	0.45
1:A3:1251:VAL:HG23	3:A6:633:MET:CG	2.47	0.45
1:A3:1279:ILE:N	3:A6:624:ASP:O	2.32	0.45
2:A4:556:PRO:HG3	3:A6:455:LEU:O	2.16	0.45
2:A4:681:THR:CG2	3:A6:431:PHE:HD1	2.30	0.45
2:A4:683:LEU:HG	3:A6:510:TYR:CD2	2.51	0.45
2:A4:735:ALA:N	3:A6:92:ASP:CG	2.64	0.45
2:A4:800:LEU:CD2	3:A6:319:TYR:HH	2.30	0.45
2:A4:867:GLU:OE2	6:D3:609:ILE:HG13	2.17	0.45
2:A4:876:ARG:N	6:D3:565:MET:C	2.70	0.45
2:A4:947:LYS:HZ3	3:A6:220:VAL:N	2.14	0.45
2:A4:969:ASP:O	6:D3:192:TYR:CE1	2.64	0.45
2:A4:1155:ASN:HD21	5:C4:735:ILE:HG23	1.81	0.45
3:A5:1160:GLN:HE22	5:C5:740:ARG:HD2	1.76	0.45
3:A5:1376:LEU:HB2	28:Z2:810:ASP:O	2.17	0.45
3:A6:1368:GLN:HB2	28:Z4:875:LEU:O	2.17	0.45
3:A6:1368:GLN:CG	28:Z4:878:HIS:CB	2.93	0.45
3:A6:1389:SER:HA	28:Z4:910:GLN:H	1.08	0.45
6:D2:646:LEU:HD22	6:D2:696:ILE:HD11	1.98	0.45
6:D3:587:LEU:HD13	6:D3:631:LEU:HA	1.99	0.45
6:D4:382:ASN:OD1	6:D4:383:THR:N	2.50	0.45
6:D4:587:LEU:HD13	6:D4:631:LEU:HA	1.99	0.45
6:D4:781:ARG:NH1	6:D4:784:GLN:OE1	2.49	0.45
6:D5:650:VAL:HB	6:D5:651:PRO:HD3	1.99	0.45
6:D7:180:ASN:H	11:I3:52:ASP:HB2	1.45	0.45
6:D7:587:LEU:HD13	6:D7:631:LEU:HA	1.99	0.45
8:F1:535:ILE:CG1	8:F1:536:PRO:HD2	2.46	0.45
8:F1:1091:SER:OG	17:O2:238:ALA:C	2.55	0.45
8:F2:1801:VAL:O	8:F2:1801:VAL:HG23	2.17	0.45
8:F2:1832:ASN:OD1	8:F2:1833:ARG:HG3	2.16	0.45
11:I1:850:ILE:HG23	15:M1:594:LYS:HG2	1.97	0.45
11:I1:876:ALA:HA	17:O1:248:SER:HA	1.99	0.45
11:I1:1052:LEU:N	17:O1:286:ILE:HG22	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:790:LEU:CD2	17:O3:251:ILE:CD1	2.88	0.45
11:I2:955:LYS:HG3	16:N3:403:VAL:H	1.82	0.45
11:I2:1361:ALA:O	11:I2:1365:ALA:N	2.50	0.45
11:I3:1314:LEU:O	11:I3:1314:LEU:HD23	2.17	0.45
21:S2:449:ASP:HB2	21:S2:467:ASN:ND2	2.31	0.45
21:S2:682:ASN:HA	21:S2:684:THR:HA	1.98	0.45
21:S3:619:GLY:HA2	21:S3:620:LEU:CB	2.47	0.45
22:T1:902:GLN:O	22:T1:906:GLU:HG2	2.17	0.45
22:T2:685:ARG:NH2	22:T2:716:PRO:HG2	2.32	0.45
22:T2:822:LEU:HD22	22:T2:886:HIS:CE1	2.52	0.45
22:T3:696:MET:HE3	22:T3:708:ALA:O	2.17	0.45
22:T3:822:LEU:HD22	22:T3:886:HIS:CE1	2.52	0.45
22:T4:902:GLN:O	22:T4:906:GLU:HG2	2.17	0.45
23:U3:222:VAL:O	24:V3:256:VAL:HG22	2.17	0.45
23:U4:314:ILE:HD12	24:V4:309:LYS:HE3	1.98	0.45
23:U4:433:ALA:O	23:U4:435:PHE:N	2.44	0.45
24:V4:391:CYS:O	24:V4:395:ILE:HD11	2.18	0.45
25:W1:257:LEU:HA	25:W1:273:GLY:HA2	1.98	0.45
26:X2:97:ARG:NH2	26:X2:411:SER:O	2.50	0.45
26:X4:198:GLU:HG2	26:X4:300:SER:CB	2.47	0.45
28:Z2:352:ILE:HD13	28:Z2:471:ILE:HG12	1.99	0.45
28:Z2:643:ASP:OD2	28:Z2:646:ILE:HG13	2.17	0.45
28:Z2:739:PHE:O	28:Z2:743:ASN:N	2.36	0.45
28:Z4:623:LEU:HD23	28:Z4:623:LEU:HA	1.74	0.45
1:A1:870:HIS:H	6:D3:280:GLN:CA	2.30	0.44
1:A1:1018:ASP:OD1	6:D1:819:ASN:ND2	2.39	0.44
1:A1:1393:THR:OG1	2:A2:851:ASP:CG	2.55	0.44
1:A3:773:PHE:CZ	1:A3:818:LEU:HD12	2.48	0.44
1:A3:1191:ASN:O	3:A6:615:LEU:CD2	2.61	0.44
1:A3:1204:TRP:N	2:A4:732:GLN:OE1	2.48	0.44
2:A4:691:LYS:NZ	3:A6:330:LEU:CG	2.68	0.44
2:A4:752:LYS:HA	3:A6:539:LYS:C	2.36	0.44
2:A4:813:GLU:OE2	3:A6:191:LEU:CA	2.64	0.44
2:A4:822:ILE:HG21	3:A6:526:ILE:HD12	1.65	0.44
2:A4:896:ALA:N	3:A6:179:TYR:HB3	2.31	0.44
2:A4:952:ARG:H	4:B6:347:LEU:CD2	2.29	0.44
2:A4:1342:SER:OG	2:A4:1343:GLY:N	2.50	0.44
3:A5:199:PHE:HA	4:B5:353:LEU:HA	1.99	0.44
3:A5:1404:LEU:CD2	28:Z2:913:ILE:O	2.63	0.44
6:D7:483:GLU:HB2	11:I3:191:GLU:OE2	2.17	0.44
6:D7:781:ARG:NH1	6:D7:784:GLN:OE1	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:173:THR:O	8:F1:177:ARG:NH1	2.50	0.44
8:F1:1202:TYR:CD1	17:O2:252:VAL:HG22	2.51	0.44
11:I1:876:ALA:O	17:O1:248:SER:HA	2.17	0.44
11:I1:896:PRO:HD3	17:O1:233:THR:CA	2.36	0.44
11:I1:1019:LEU:HD13	16:N1:412:ASN:ND2	2.26	0.44
11:I1:1021:ILE:HG12	16:N1:410:MET:HB2	1.74	0.44
11:I1:1665:LEU:CG	11:I2:1667:GLN:CD	2.83	0.44
11:I2:877:ILE:HB	17:O3:252:VAL:C	2.36	0.44
11:I2:953:LEU:CD1	15:M3:607:SER:H	2.30	0.44
11:I2:953:LEU:HD11	15:M3:606:LEU:N	2.33	0.44
11:I2:955:LYS:HB3	16:N3:400:LEU:HG	1.99	0.44
11:I2:1033:PRO:HD2	20:R3:177:LEU:HD23	1.65	0.44
11:I2:1042:LEU:CD2	15:M3:608:LYS:HB2	2.46	0.44
11:I2:1042:LEU:HD23	15:M3:616:LEU:HD23	1.29	0.44
11:I2:1045:PHE:CA	15:M3:619:ILE:CD1	2.93	0.44
11:I2:1071:LEU:HG	16:N3:429:GLU:HA	1.99	0.44
11:I4:1274:HIS:HB2	26:X3:524:SER:OG	2.14	0.44
17:O4:98:TYR:HD2	17:O4:125:ALA:HB2	1.83	0.44
21:S3:176:MET:HE1	21:S3:232:LEU:HD12	1.99	0.44
22:T4:828:TRP:O	22:T4:830:VAL:HG23	2.16	0.44
23:U2:144:TRP:CH2	23:U2:158:LEU:HA	2.51	0.44
23:U3:207:SER:HG	24:V3:359:TYR:HH	1.64	0.44
23:U4:143:LYS:HG3	23:U4:144:TRP:N	2.32	0.44
24:V3:526:HIS:C	24:V3:530:ARG:HD2	2.37	0.44
24:V4:394:GLN:HG2	24:V4:397:GLU:HB2	2.00	0.44
25:W3:16:VAL:HG21	25:W3:59:VAL:O	2.16	0.44
26:X1:152:LEU:CD2	26:X1:182:LEU:HB3	2.43	0.44
26:X1:198:GLU:HG2	26:X1:300:SER:CB	2.47	0.44
26:X4:453:ASP:OD1	26:X4:499:ALA:HB1	2.17	0.44
28:Z1:177:PHE:CD1	28:Z1:183:LEU:HD22	2.51	0.44
28:Z3:643:ASP:OD2	28:Z3:646:ILE:HG13	2.17	0.44
28:Z4:218:SER:OG	28:Z4:219:ASP:N	2.50	0.44
2:A2:828:ALA:O	2:A2:867:GLU:OE1	2.34	0.44
2:A2:1122:LEU:HD11	3:A5:135:PHE:CE2	2.50	0.44
2:A2:1129:PRO:N	3:A5:140:ALA:HB2	2.22	0.44
1:A3:1221:ILE:HG21	2:A4:641:ALA:O	2.16	0.44
1:A3:1277:TRP:HH2	3:A6:621:GLN:HB3	1.82	0.44
2:A4:615:LEU:HD21	3:A6:499:ILE:HD13	1.90	0.44
2:A4:713:ILE:CA	3:A6:436:PRO:HD3	2.48	0.44
2:A4:735:ALA:CA	3:A6:92:ASP:CB	2.91	0.44
2:A4:801:THR:HB	3:A6:381:LEU:N	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:878:LEU:N	6:D3:567:LEU:HD12	2.32	0.44
2:A4:981:PRO:HA	6:D3:496:LEU:HB3	1.99	0.44
2:A4:982:THR:N	6:D3:496:LEU:C	2.47	0.44
3:A5:222:ALA:HB2	5:C2:739:MET:CE	2.47	0.44
3:A6:446:LEU:CG	6:D3:721:PRO:CA	2.80	0.44
3:A6:773:PHE:CZ	3:A6:818:LEU:HD12	2.48	0.44
6:D5:436:THR:HG23	6:D5:439:GLN:H	1.81	0.44
6:D6:482:MET:SD	6:D6:482:MET:N	2.90	0.44
6:D7:192:TYR:OH	6:D7:498:GLU:OE1	2.33	0.44
11:I1:896:PRO:N	17:O1:233:THR:N	2.56	0.44
11:I1:924:ILE:HD12	15:M1:599:ILE:HD12	1.99	0.44
11:I1:993:SER:HB2	16:N1:430:ARG:HH12	1.07	0.44
11:I1:1046:HIS:HB3	17:O1:283:ALA:CB	2.30	0.44
11:I2:950:LEU:HD13	16:N3:410:MET:HE3	1.97	0.44
11:I2:1032:THR:O	15:M3:627:LEU:HB2	2.16	0.44
11:I2:1061:ASP:HB2	17:O3:278:GLU:HB3	1.92	0.44
11:I2:1067:PHE:HD1	16:N3:430:ARG:CA	2.28	0.44
11:I2:1333:THR:N	11:I2:1334:PRO:CD	2.81	0.44
11:I3:1270:LYS:HB3	26:X1:531:LEU:N	2.26	0.44
11:I4:1361:ALA:O	11:I4:1365:ALA:N	2.50	0.44
11:I5:1333:THR:N	11:I5:1334:PRO:CD	2.80	0.44
17:O1:98:TYR:HD2	17:O1:125:ALA:HB2	1.83	0.44
17:O2:110:LEU:CG	18:P2:321:ILE:O	2.63	0.44
21:S1:654:LYS:C	21:S2:1156:ILE:C	2.71	0.44
21:S2:946:LEU:HD11	22:T2:898:ARG:HG2	1.99	0.44
21:S3:1020:LEU:H	21:S3:1020:LEU:CD2	2.31	0.44
22:T4:675:ILE:HD13	22:T4:675:ILE:HA	1.87	0.44
24:V1:526:HIS:C	24:V1:530:ARG:HD2	2.37	0.44
24:V2:393:GLY:O	24:V2:394:GLN:HB2	2.17	0.44
24:V3:173:ILE:HD11	25:W3:43:HIS:HD2	1.82	0.44
25:W2:257:LEU:HA	25:W2:273:GLY:HA2	1.98	0.44
26:X2:198:GLU:HG2	26:X2:300:SER:CB	2.47	0.44
28:Z4:247:ASP:O	28:Z4:251:PHE:N	2.47	0.44
1:A1:939:LYS:N	1:A1:940:PRO:HD3	2.32	0.44
1:A1:1220:PRO:HD2	2:A2:646:ILE:C	2.05	0.44
1:A1:1224:PRO:CA	2:A2:731:ILE:HD13	2.46	0.44
2:A2:349:LYS:NZ	2:A2:352:GLU:OE1	2.49	0.44
1:A3:1230:TYR:HB2	2:A4:726:ALA:C	2.33	0.44
1:A3:1278:PRO:HD2	3:A6:624:ASP:HB2	1.88	0.44
1:A3:1393:THR:HG1	3:A6:229:SER:N	1.99	0.44
2:A4:552:PHE:C	3:A6:434:PHE:C	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:688:TRP:CZ3	3:A6:395:MET:SD	3.02	0.44
2:A4:701:ILE:CD1	3:A6:481:ARG:HB2	2.48	0.44
2:A4:733:GLY:HA3	3:A6:93:ASP:C	2.36	0.44
2:A4:892:SER:CA	3:A6:232:LEU:HB3	2.48	0.44
2:A4:898:LEU:N	3:A6:177:ILE:N	2.60	0.44
2:A4:977:VAL:CG1	6:D3:496:LEU:HD12	2.45	0.44
2:A4:1249:PHE:N	2:A4:1250:PRO:CD	2.80	0.44
3:A5:160:ILE:HD13	5:C2:743:LEU:HG	1.91	0.44
3:A5:1023:ILE:CG1	11:I5:55:ASP:OD1	2.65	0.44
3:A6:1398:LYS:N	28:Z4:917:ASP:N	2.64	0.44
6:D2:436:THR:HG23	6:D2:439:GLN:H	1.82	0.44
6:D7:382:ASN:OD1	6:D7:383:THR:N	2.50	0.44
8:F1:1801:VAL:O	8:F1:1801:VAL:HG23	2.17	0.44
11:I1:881:ILE:HD11	17:O1:253:LEU:HG	1.99	0.44
11:I1:958:THR:CB	16:N1:399:HIS:HA	2.47	0.44
11:I1:981:VAL:HA	20:R1:147:LEU:HD21	1.54	0.44
11:I1:987:GLY:CA	15:M1:614:ASP:H	2.27	0.44
11:I1:1049:LEU:HD23	20:R1:146:LEU:HD21	1.93	0.44
11:I2:886:LEU:HB3	17:O3:242:ARG:CG	2.45	0.44
11:I2:950:LEU:HG	15:M3:606:LEU:CG	2.47	0.44
11:I2:953:LEU:CD1	15:M3:602:MET:O	2.65	0.44
11:I2:961:ARG:CZ	16:N3:388:LYS:O	2.52	0.44
11:I3:1361:ALA:O	11:I3:1365:ALA:N	2.50	0.44
11:I4:1274:HIS:HB2	26:X3:525:ILE:HG13	1.97	0.44
11:I5:1083:GLU:OE1	11:I5:1083:GLU:N	2.42	0.44
11:I5:1122:ASN:O	11:I5:1126:HIS:ND1	2.42	0.44
17:O1:156:ILE:CG2	17:O1:157:THR:N	2.81	0.44
17:O3:162:LYS:HG3	18:P3:315:GLU:CD	2.30	0.44
21:S2:968:LYS:HB3	21:S2:968:LYS:HE2	1.65	0.44
21:S3:681:SER:O	21:S4:1145:LYS:O	2.36	0.44
22:T1:685:ARG:NH2	22:T1:716:PRO:HG2	2.32	0.44
22:T1:891:VAL:O	22:T1:891:VAL:HG12	2.17	0.44
22:T4:829:MET:HE2	22:T4:849:LEU:HD12	2.00	0.44
23:U1:81:LEU:HD13	23:U1:85:ARG:NH2	2.32	0.44
23:U1:116:LEU:O	23:U1:119:ILE:HB	2.17	0.44
23:U3:81:LEU:HD13	23:U3:85:ARG:NH2	2.32	0.44
23:U4:109:LEU:HD23	23:U4:298:ILE:HG13	2.00	0.44
23:U4:116:LEU:O	23:U4:119:ILE:HB	2.17	0.44
26:X3:453:ASP:OD1	26:X3:499:ALA:HB1	2.17	0.44
27:Y3:208:LEU:HD11	27:Y3:231:ILE:CD1	2.47	0.44
28:Z1:436:HIS:NE2	28:Z1:438:GLU:HB2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:436:HIS:NE2	28:Z3:438:GLU:HB2	2.31	0.44
28:Z3:668:TYR:CZ	28:Z3:672:LYS:HE3	2.53	0.44
28:Z4:130:THR:O	28:Z4:150:PHE:HA	2.17	0.44
1:A1:1052:THR:HA	6:D1:812:VAL:HG11	1.98	0.44
2:A2:876:ARG:NH2	6:D1:558:LYS:HB3	2.33	0.44
2:A2:1132:PRO:HD3	3:A5:160:ILE:HA	1.99	0.44
1:A3:1052:THR:CG2	6:D3:816:VAL:HG23	2.39	0.44
1:A3:1054:SER:N	6:D3:809:ALA:O	2.49	0.44
1:A3:1188:ASN:HB2	3:A6:642:ARG:C	2.37	0.44
1:A3:1230:TYR:CG	2:A4:726:ALA:O	2.68	0.44
1:A3:1251:VAL:CA	3:A6:634:ASP:OD2	2.65	0.44
2:A4:669:LEU:HA	3:A6:542:LEU:HG	1.98	0.44
2:A4:675:ALA:CB	3:A6:508:LEU:CG	2.96	0.44
2:A4:733:GLY:HA2	3:A6:93:ASP:HA	1.06	0.44
2:A4:771:ILE:HD11	3:A6:476:PHE:CD2	2.30	0.44
2:A4:779:ASP:O	3:A6:522:GLY:CA	2.65	0.44
2:A4:795:GLN:CA	3:A6:249:SER:OG	2.64	0.44
2:A4:802:TYR:HD2	3:A6:380:ALA:N	2.15	0.44
2:A4:859:GLN:NE2	3:A6:134:VAL:HG22	2.31	0.44
2:A4:863:GLN:O	3:A6:136:GLU:HG2	2.17	0.44
2:A4:973:GLU:H	6:D3:205:LEU:H	1.49	0.44
2:A4:983:LEU:N	6:D3:528:PHE:CE2	2.85	0.44
2:A4:1290:ALA:CB	2:A4:1349:ALA:HB3	2.46	0.44
3:A5:1005:PHE:CZ	11:I5:67:LYS:HE3	2.34	0.44
3:A5:1053:ARG:HH11	11:I5:99:ARG:HG3	1.83	0.44
3:A5:1094:ILE:CD1	11:I5:34:LEU:HD22	2.47	0.44
3:A6:518:GLU:HB3	6:D3:686:ASP:HB3	1.20	0.44
6:D1:482:MET:N	6:D1:482:MET:SD	2.90	0.44
6:D2:482:MET:N	6:D2:482:MET:SD	2.90	0.44
6:D7:650:VAL:HB	6:D7:651:PRO:HD3	1.99	0.44
8:F1:982:PRO:CB	11:I1:1388:GLU:OE2	2.60	0.44
8:F2:1135:ARG:HD3	17:O4:252:VAL:HG13	1.19	0.44
9:G1:258:LYS:HD3	9:G1:263:MET:HE3	1.98	0.44
11:I1:877:ILE:HG13	17:O1:251:ILE:C	2.17	0.44
11:I1:949:CYS:SG	17:O1:254:ARG:O	2.75	0.44
11:I1:990:GLU:CB	17:O1:272:SER:HA	2.40	0.44
11:I1:1041:GLN:OE1	15:M1:620:VAL:HB	2.17	0.44
11:I1:1051:LYS:CA	17:O1:290:TYR:CD2	3.01	0.44
11:I1:1314:LEU:O	11:I1:1314:LEU:HD23	2.17	0.44
11:I2:884:LEU:HB2	11:I2:955:LYS:HZ1	1.82	0.44
11:I2:927:HIS:CA	15:M3:597:LYS:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1062:MET:N	17:O3:277:GLU:OE1	2.51	0.44
11:I2:1182:GLN:NE2	12:J2:245:GLU:CB	2.80	0.44
11:I2:1218:ASP:O	11:I2:1221:ASN:ND2	2.49	0.44
11:I3:1274:HIS:CA	26:X1:534:ILE:CG2	2.95	0.44
11:I3:1333:THR:N	11:I3:1334:PRO:CD	2.80	0.44
17:O2:110:LEU:HD11	18:P2:321:ILE:CB	2.31	0.44
21:S3:404:LEU:O	21:S3:405:CYS:HB2	2.18	0.44
21:S3:690:PHE:C	21:S3:692:GLU:N	2.70	0.44
21:S3:1119:LEU:C	21:S3:1121:GLU:N	2.71	0.44
21:S4:133:ILE:HG21	21:S4:133:ILE:HD13	1.69	0.44
21:S4:619:GLY:HA2	21:S4:620:LEU:CB	2.47	0.44
21:S4:1020:LEU:H	21:S4:1020:LEU:CD2	2.31	0.44
23:U2:222:VAL:O	24:V2:256:VAL:HG22	2.18	0.44
23:U3:109:LEU:HD23	23:U3:298:ILE:HG13	2.00	0.44
23:U3:116:LEU:O	23:U3:119:ILE:HB	2.17	0.44
25:W4:52:HIS:CE1	25:W4:80:LEU:HD12	2.53	0.44
26:X2:268:SER:HB2	26:X2:269:ASP:OD1	2.17	0.44
26:X3:202:SER:HA	26:X3:297:LYS:O	2.18	0.44
27:Y1:296:LEU:HD21	27:Y1:299:GLU:HG3	1.98	0.44
28:Z2:218:SER:OG	28:Z2:219:ASP:N	2.50	0.44
28:Z2:297:LEU:HD23	28:Z2:297:LEU:HA	1.89	0.44
1:A1:870:HIS:N	6:D3:280:GLN:CB	2.67	0.44
1:A1:874:VAL:HG21	6:D3:272:VAL:CA	2.45	0.44
2:A2:520:GLU:OE1	2:A2:521:ASN:ND2	2.50	0.44
2:A2:969:ASP:H	6:D1:196:ILE:HA	1.79	0.44
2:A2:977:VAL:HA	6:D1:492:VAL:HG12	1.98	0.44
1:A3:1091:VAL:CG2	6:D3:808:ASN:N	2.33	0.44
1:A3:1162:ASN:OD1	3:A6:646:ILE:HG23	2.17	0.44
1:A3:1197:ALA:CB	2:A4:728:LYS:CG	2.65	0.44
1:A3:1277:TRP:CE3	3:A6:622:GLY:HA2	2.47	0.44
2:A4:231:SER:CB	6:D3:709:ARG:HH22	2.21	0.44
2:A4:705:ILE:N	2:A4:706:PRO:HD2	2.32	0.44
2:A4:712:THR:HB	3:A6:436:PRO:C	2.26	0.44
2:A4:726:ALA:O	3:A6:575:LEU:CD2	2.57	0.44
2:A4:760:LEU:CB	3:A6:388:GLU:CG	2.86	0.44
2:A4:774:VAL:CG1	3:A6:467:LEU:HG	2.22	0.44
2:A4:778:PHE:HB2	3:A6:487:ASP:CG	2.32	0.44
2:A4:820:LYS:O	3:A6:158:ALA:HB2	2.18	0.44
2:A4:865:ALA:O	6:D3:598:ILE:CG1	2.61	0.44
2:A4:868:GLN:OE1	6:D3:570:VAL:CA	2.66	0.44
3:A5:1394:VAL:HG12	28:Z2:875:LEU:N	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D1:436:THR:HG23	6:D1:439:GLN:H	1.82	0.44
6:D3:445:LEU:HD12	6:D3:446:GLU:N	2.33	0.44
6:D4:646:LEU:HD22	6:D4:696:ILE:HD11	1.99	0.44
6:D5:646:LEU:HD22	6:D5:696:ILE:HD11	1.98	0.44
6:D6:587:LEU:HD13	6:D6:631:LEU:HA	1.99	0.44
8:F1:1837:LYS:O	8:F1:1841:LEU:HD13	2.18	0.44
8:F2:535:ILE:HG13	8:F2:536:PRO:HD2	1.99	0.44
8:F2:840:ARG:HG3	8:F2:841:PRO:HD2	1.98	0.44
8:F2:1113:LYS:N	8:F2:1114:PRO:HD2	2.32	0.44
11:I1:763:ASP:OD1	11:I1:835:ARG:NE	2.48	0.44
11:I1:874:LEU:C	17:O1:251:ILE:HG22	2.38	0.44
11:I1:890:TYR:HD1	17:O1:238:ALA:N	2.15	0.44
11:I1:965:ALA:CB	20:R1:164:PRO:CA	2.96	0.44
11:I1:1013:GLU:O	16:N1:412:ASN:HA	2.17	0.44
11:I1:1037:THR:HG21	20:R1:173:LEU:HB2	0.68	0.44
11:I1:1543:LEU:O	12:J2:300:ILE:HA	2.02	0.44
11:I2:958:THR:H	16:N3:399:HIS:CE1	2.31	0.44
11:I2:1030:ARG:CA	20:R3:172:ASP:C	2.82	0.44
11:I3:660:THR:OG1	11:I3:661:HIS:N	2.51	0.44
21:S2:619:GLY:HA2	21:S2:620:LEU:CB	2.47	0.44
21:S2:1119:LEU:C	21:S2:1121:GLU:N	2.71	0.44
21:S3:133:ILE:HG21	21:S3:133:ILE:HD13	1.69	0.44
21:S3:615:ILE:O	21:S3:620:LEU:CB	2.66	0.44
23:U2:81:LEU:HD13	23:U2:85:ARG:NH2	2.32	0.44
25:W2:35:ILE:HB	25:W2:47:ASP:HB2	2.00	0.44
26:X3:268:SER:HB2	26:X3:269:ASP:OD1	2.17	0.44
1:A3:1056:PHE:HB3	6:D3:808:ASN:CB	2.48	0.44
1:A3:1194:HIS:HE1	3:A6:552:PHE:CE2	2.19	0.44
1:A3:1278:PRO:CD	3:A6:624:ASP:CB	2.75	0.44
2:A4:551:GLN:O	3:A6:455:LEU:CA	2.66	0.44
2:A4:687:LEU:CD1	3:A6:476:PHE:CZ	2.80	0.44
2:A4:687:LEU:HD23	3:A6:397:LEU:HA	2.00	0.44
2:A4:717:VAL:HG11	3:A6:476:PHE:HB3	1.98	0.44
2:A4:975:GLU:CG	6:D3:501:LEU:HB2	2.38	0.44
2:A4:978:ASP:HA	6:D3:463:PHE:CE1	2.52	0.44
3:A5:1028:VAL:CG1	11:I5:68:ILE:HD13	2.43	0.44
3:A5:1094:ILE:HD12	11:I5:34:LEU:HD21	2.00	0.44
3:A6:1151:THR:CA	5:C6:733:LEU:HD13	2.40	0.44
3:A6:1255:LEU:HB3	3:A6:1256:PRO:HD3	2.00	0.44
3:A6:1395:LYS:C	28:Z4:920:SER:N	2.71	0.44
6:D1:646:LEU:HD22	6:D1:696:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:650:VAL:HB	6:D3:651:PRO:HD3	1.99	0.44
6:D4:482:MET:SD	6:D4:482:MET:N	2.90	0.44
6:D6:445:LEU:HD12	6:D6:446:GLU:N	2.33	0.44
9:G1:263:MET:HE1	16:N2:407:ALA:C	2.38	0.44
11:I1:873:ILE:HG22	17:O1:255:GLY:CA	2.46	0.44
11:I1:895:ARG:HG2	17:O1:232:LYS:C	2.32	0.44
11:I1:921:GLU:CG	16:N1:392:THR:HB	2.48	0.44
11:I1:936:LYS:HA	15:M1:609:GLY:HA3	1.99	0.44
11:I1:1036:PRO:HA	16:N1:441:PHE:HE2	1.83	0.44
11:I1:1045:PHE:CZ	16:N1:431:VAL:C	2.85	0.44
11:I2:271:ASP:OD1	11:I2:272:LYS:N	2.49	0.44
11:I2:882:LYS:CB	17:O3:245:GLU:C	2.74	0.44
11:I2:924:ILE:HG13	15:M3:596:ILE:HB	1.80	0.44
11:I2:978:LYS:C	15:M3:621:ARG:HH11	2.03	0.44
11:I2:992:ILE:HG13	15:M3:610:SER:H	1.83	0.44
11:I2:1052:LEU:CB	16:N3:438:LEU:HD11	2.47	0.44
11:I4:815:ILE:O	26:X3:497:ARG:CA	2.32	0.44
21:S1:596:ILE:O	21:S2:1120:PRO:HD2	2.17	0.44
21:S1:615:ILE:O	21:S1:620:LEU:CB	2.66	0.44
21:S2:680:PRO:O	21:S2:681:SER:C	2.56	0.44
21:S4:404:LEU:O	21:S4:405:CYS:HB2	2.17	0.44
21:S4:690:PHE:C	21:S4:692:GLU:N	2.71	0.44
21:S4:987:MET:HE3	21:S4:991:LYS:HE2	1.99	0.44
21:S4:1119:LEU:C	21:S4:1121:GLU:N	2.71	0.44
22:T2:774:PRO:HG2	22:T2:792:GLU:HA	2.00	0.44
22:T3:669:ARG:HA	22:T3:669:ARG:HD3	1.85	0.44
22:T4:851:LYS:HB3	22:T4:851:LYS:HE2	1.77	0.44
23:U1:222:VAL:O	24:V1:256:VAL:HG22	2.18	0.44
23:U2:385:LEU:O	23:U2:389:VAL:HG23	2.18	0.44
23:U3:385:LEU:O	23:U3:389:VAL:HG23	2.18	0.44
24:V1:173:ILE:HD11	25:W1:43:HIS:HD2	1.82	0.44
25:W2:16:VAL:HG23	25:W2:59:VAL:HG23	1.98	0.44
26:X2:453:ASP:OD1	26:X2:499:ALA:HB1	2.17	0.44
26:X3:328:LEU:HA	26:X3:331:TYR:HB2	2.00	0.44
26:X4:202:SER:HA	26:X4:297:LYS:O	2.18	0.44
26:X4:406:LEU:HB2	26:X4:407:PRO:HD3	1.98	0.44
27:Y3:296:LEU:HD21	27:Y3:299:GLU:HG3	1.98	0.44
28:Z1:658:HIS:HA	28:Z1:661:GLN:OE1	2.18	0.44
28:Z2:668:TYR:CZ	28:Z2:672:LYS:HE3	2.53	0.44
28:Z4:534:ASP:HA	28:Z4:537:THR:OG1	2.18	0.44
28:Z4:658:HIS:HA	28:Z4:661:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:875:LEU:N	6:D3:276:GLY:O	2.50	0.44
1:A1:1017:THR:HG21	1:A1:1048:ARG:NH1	2.33	0.44
2:A2:864:ARG:HG3	6:D1:606:LYS:HA	0.91	0.44
1:A3:1203:TYR:HA	3:A6:91:LEU:HA	1.87	0.44
1:A3:1271:ILE:N	3:A6:554:GLN:HB3	2.33	0.44
2:A4:496:THR:CB	3:A6:366:ALA:HB1	2.46	0.44
2:A4:538:ALA:N	3:A6:362:PHE:O	2.38	0.44
2:A4:675:ALA:HB3	3:A6:508:LEU:CD1	2.30	0.44
2:A4:689:LYS:CB	3:A6:378:ILE:HG21	2.21	0.44
2:A4:778:PHE:C	6:D3:677:GLN:N	2.71	0.44
2:A4:796:GLN:CG	3:A6:250:PHE:CD1	2.28	0.44
2:A4:876:ARG:NE	6:D3:565:MET:CG	2.77	0.44
2:A4:902:VAL:N	4:B6:342:ARG:N	2.66	0.44
2:A4:984:ALA:N	6:D3:498:GLU:N	2.64	0.44
2:A4:1094:ILE:HD13	6:D4:708:ASP:H	1.83	0.44
3:A5:1094:ILE:HG22	11:I5:4:LEU:O	2.17	0.44
3:A6:483:HIS:N	6:D3:675:ARG:HD3	2.32	0.44
6:D2:445:LEU:HD12	6:D2:446:GLU:N	2.33	0.44
6:D5:587:LEU:HD13	6:D5:631:LEU:HA	1.99	0.44
8:F1:1135:ARG:HE	17:O2:249:ARG:CG	2.30	0.44
9:G1:258:LYS:CE	16:N2:408:MET:CE	2.95	0.44
9:G2:256:GLN:CB	17:O4:261:LYS:HB3	2.33	0.44
11:I1:917:TYR:O	15:M1:588:MET:HG2	2.17	0.44
11:I1:1035:GLN:HG2	15:M1:628:ALA:N	2.32	0.44
11:I1:1038:ILE:HG13	20:R1:167:GLN:CD	2.37	0.44
11:I1:1038:ILE:CG1	20:R1:167:GLN:CG	2.95	0.44
11:I1:1673:VAL:HB	11:I2:1639:LEU:HD21	2.00	0.44
11:I2:660:THR:OG1	11:I2:661:HIS:N	2.51	0.44
11:I2:887:GLN:O	16:N3:393:ILE:HD13	2.18	0.44
11:I2:938:CYS:HA	17:O3:261:LYS:HA	1.22	0.44
11:I2:962:ILE:O	20:R3:154:ALA:HB2	2.17	0.44
11:I2:967:SER:HA	20:R3:150:ASN:HA	2.00	0.44
11:I2:976:ARG:CB	20:R3:149:ARG:N	2.47	0.44
11:I2:1034:ASP:H	20:R3:177:LEU:CD2	2.30	0.44
11:I2:1083:GLU:OE1	11:I2:1083:GLU:N	2.42	0.44
11:I3:815:ILE:HG22	26:X1:498:SER:H	1.81	0.44
11:I5:1015:TYR:OH	11:I5:1089:TYR:O	2.31	0.44
11:I5:1361:ALA:O	11:I5:1365:ALA:N	2.50	0.44
21:S1:946:LEU:HD11	22:T1:898:ARG:HG2	1.99	0.44
22:T1:822:LEU:HD22	22:T1:886:HIS:CE1	2.52	0.44
23:U1:143:LYS:HG3	23:U1:144:TRP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:382:LYS:HA	23:U4:383:PRO:HD3	1.77	0.44
24:V1:391:CYS:O	24:V1:395:ILE:HD11	2.17	0.44
24:V1:393:GLY:O	24:V1:394:GLN:HB2	2.17	0.44
24:V2:391:CYS:O	24:V2:395:ILE:HD11	2.17	0.44
24:V4:393:GLY:O	24:V4:394:GLN:HB2	2.17	0.44
26:X1:202:SER:HA	26:X1:297:LYS:O	2.18	0.44
26:X1:328:LEU:HA	26:X1:331:TYR:HB2	2.00	0.44
28:Z1:643:ASP:OD2	28:Z1:646:ILE:HG13	2.17	0.44
28:Z2:285:ASN:OD1	28:Z2:285:ASN:N	2.48	0.44
28:Z2:436:HIS:NE2	28:Z2:438:GLU:HB2	2.31	0.44
28:Z2:534:ASP:HA	28:Z2:537:THR:OG1	2.18	0.44
1:A1:1229:VAL:CG1	2:A2:725:GLU:HB3	2.47	0.44
1:A1:1399:ARG:O	2:A2:881:GLU:OE2	2.35	0.44
2:A2:970:PHE:CG	6:D1:498:GLU:CD	2.82	0.44
2:A2:1055:ARG:N	6:D2:762:ARG:HB3	1.87	0.44
2:A2:1094:ILE:HB	6:D2:759:GLN:HG2	1.98	0.44
1:A3:199:PHE:HA	4:B3:353:LEU:HA	1.99	0.44
1:A3:939:LYS:N	1:A3:940:PRO:HD3	2.32	0.44
1:A3:1224:PRO:CA	2:A4:724:LEU:HA	2.46	0.44
1:A3:1254:LEU:CA	3:A6:638:GLU:CD	2.72	0.44
1:A3:1263:ILE:HG23	3:A6:712:THR:CA	2.48	0.44
1:A3:1281:LEU:CA	3:A6:625:LEU:CG	2.61	0.44
1:A3:1387:ILE:O	3:A6:226:PRO:HA	2.18	0.44
2:A4:88:THR:HG21	3:A6:392:LEU:HD11	1.23	0.44
2:A4:691:LYS:HB2	3:A6:316:ARG:CZ	2.28	0.44
2:A4:735:ALA:C	3:A6:92:ASP:CB	2.87	0.44
2:A4:806:PHE:CG	3:A6:382:SER:CB	2.89	0.44
2:A4:808:GLN:HB3	3:A6:319:TYR:HA	1.06	0.44
2:A4:861:GLN:HB2	6:D3:606:LYS:NZ	2.29	0.44
2:A4:865:ALA:HA	6:D3:567:LEU:CD2	2.14	0.44
2:A4:876:ARG:NH2	6:D3:563:GLU:O	2.51	0.44
2:A4:897:ASN:CB	3:A6:165:PHE:HB3	2.48	0.44
2:A4:970:PHE:HZ	6:D3:555:ARG:NH2	2.08	0.44
2:A4:971:ALA:H	6:D3:202:GLN:CG	2.11	0.44
3:A5:160:ILE:HD11	5:C2:743:LEU:HD12	1.83	0.44
3:A5:234:LEU:HD22	5:C2:738:ASP:O	2.04	0.44
3:A5:1395:LYS:CA	28:Z2:874:ASN:H	2.31	0.44
3:A6:861:GLN:HB2	3:A6:882:SER:HB3	1.99	0.44
4:B5:344:ALA:HA	5:C2:737:LYS:HZ2	1.78	0.44
6:D1:445:LEU:HD12	6:D1:446:GLU:N	2.33	0.44
6:D2:749:LEU:CD2	6:D2:792:LEU:HD22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:584:LEU:HD22	6:D3:609:ILE:HD11	2.00	0.44
6:D5:382:ASN:OD1	6:D5:383:THR:N	2.50	0.44
8:F1:840:ARG:HG3	8:F1:841:PRO:HD2	1.98	0.44
8:F1:982:PRO:HG3	11:I1:1388:GLU:HG3	2.00	0.44
8:F2:1837:LYS:O	8:F2:1841:LEU:HD13	2.18	0.44
11:I1:1046:HIS:HB3	17:O1:284:LYS:H	1.82	0.44
11:I1:1611:PHE:CG	11:I2:1669:ARG:HA	2.53	0.44
11:I2:877:ILE:CB	17:O3:253:LEU:N	2.77	0.44
11:I2:882:LYS:HA	17:O3:249:ARG:HD2	0.87	0.44
11:I2:884:LEU:CD2	16:N3:396:ILE:HD13	2.48	0.44
11:I2:890:TYR:H	17:O3:242:ARG:HE	1.02	0.44
11:I2:919:ALA:HB1	16:N3:392:THR:OG1	2.09	0.44
11:I2:944:GLU:HG2	17:O3:256:TYR:CE1	2.53	0.44
11:I2:968:PRO:CD	20:R3:153:GLN:CB	2.50	0.44
11:I2:981:VAL:HG12	20:R3:151:LYS:HB2	1.99	0.44
11:I2:1051:LYS:CG	17:O3:284:LYS:O	2.66	0.44
11:I4:660:THR:OG1	11:I4:661:HIS:N	2.51	0.44
11:I5:1278:ALA:HB2	26:X2:516:ASN:HB3	1.98	0.44
21:S1:667:ALA:N	21:S2:1147:ASN:C	2.45	0.44
21:S2:1039:GLU:HG2	21:S2:1039:GLU:H	1.59	0.44
22:T2:917:ASP:HB2	22:T2:918:PRO:CD	2.47	0.44
25:W3:16:VAL:HG23	25:W3:59:VAL:HG23	1.98	0.44
25:W3:63:HIS:CD2	25:W3:64:PRO:HD2	2.53	0.44
25:W4:63:HIS:CD2	25:W4:64:PRO:HD2	2.53	0.44
26:X1:453:ASP:OD1	26:X1:499:ALA:HB1	2.17	0.44
26:X2:202:SER:HA	26:X2:297:LYS:O	2.18	0.44
26:X4:58:ILE:HG22	26:X4:59:GLU:N	2.33	0.44
26:X4:97:ARG:HB3	26:X4:97:ARG:NH1	2.32	0.44
27:Y3:124:LYS:HG3	27:Y3:138:ASP:OD1	2.17	0.44
27:Y4:31:GLN:OE1	27:Y4:52:ARG:NH1	2.50	0.44
28:Z3:736:ASN:C	28:Z3:738:ARG:H	2.21	0.44
2:A2:203:ILE:HD11	4:B2:352:ALA:HA	2.00	0.44
2:A2:351:ILE:HD11	2:A2:424:PRO:HB2	2.00	0.44
2:A2:874:VAL:CG2	6:D1:611:LYS:NZ	2.66	0.44
1:A3:1117:ILE:HG13	3:A6:590:SER:OG	2.17	0.44
1:A3:1257:VAL:CG1	3:A6:638:GLU:CD	2.59	0.44
1:A3:1318:TRP:CE2	3:A6:624:ASP:CB	3.01	0.44
1:A3:1386:GLU:O	3:A6:224:PRO:HB2	2.18	0.44
2:A4:79:ALA:O	3:A6:321:ASP:CG	2.57	0.44
2:A4:85:VAL:C	3:A6:394:LEU:O	2.56	0.44
2:A4:86:ASN:CA	3:A6:393:HIS:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:91:LEU:HD22	3:A6:430:GLN:NE2	1.94	0.44
2:A4:387:THR:O	3:A6:363:ALA:HB1	2.18	0.44
2:A4:673:HIS:C	3:A6:100:SER:HB2	2.09	0.44
2:A4:723:PHE:CG	3:A6:497:GLY:N	2.85	0.44
2:A4:769:GLU:CG	3:A6:477:PHE:CZ	3.01	0.44
2:A4:896:ALA:HA	3:A6:179:TYR:H	0.67	0.44
2:A4:899:THR:CA	3:A6:178:GLY:HA3	2.30	0.44
3:A5:1365:VAL:HG13	28:Z2:841:ALA:HB2	1.95	0.44
3:A5:1369:ILE:CD1	28:Z2:833:ASP:N	2.53	0.44
3:A6:127:HIS:CD2	6:D3:636:ASP:OD2	2.71	0.44
3:A6:442:ARG:HE	6:D3:692:LEU:HG	1.81	0.44
6:D5:749:LEU:CD2	6:D5:792:LEU:HD22	2.48	0.44
6:D6:650:VAL:HB	6:D6:651:PRO:HD3	1.99	0.44
8:F1:535:ILE:HG13	8:F1:536:PRO:HD2	1.99	0.44
8:F1:1120:HIS:O	8:F1:1124:THR:HG23	2.18	0.44
8:F1:1265:GLN:C	17:O2:265:ASN:ND2	2.44	0.44
9:G2:255:LEU:CA	17:O4:262:ASP:CG	2.69	0.44
9:G2:258:LYS:CD	17:O4:259:ASP:OD2	2.66	0.44
11:I1:837:MET:N	17:O1:241:SER:HA	2.33	0.44
11:I1:920:PHE:CZ	15:M1:595:MET:HB2	2.44	0.44
11:I1:928:LEU:CG	20:R1:155:GLU:CB	2.96	0.44
11:I1:947:LEU:HG	16:N1:407:ALA:C	2.38	0.44
11:I1:952:LEU:HA	16:N1:400:LEU:CG	2.33	0.44
11:I2:797:LEU:CD2	17:O3:245:GLU:HA	2.47	0.44
11:I2:841:PHE:CD2	15:M3:588:MET:CE	3.01	0.44
11:I2:879:VAL:HB	17:O3:251:ILE:CD1	2.38	0.44
11:I2:934:LEU:HD22	15:M3:602:MET:HB3	1.57	0.44
11:I2:949:CYS:HB2	15:M3:606:LEU:HD22	1.99	0.44
11:I2:1024:PHE:CB	16:N3:406:HIS:NE2	2.76	0.44
11:I3:1280:PRO:CG	26:X1:539:TYR:CE2	3.00	0.44
11:I4:1276:GLN:NE2	26:X3:519:ILE:HG22	2.33	0.44
11:I5:480:ASP:OD1	11:I5:481:ALA:N	2.51	0.44
16:N4:284:PRO:HA	16:N4:287:VAL:HG12	1.99	0.44
17:O4:110:LEU:HD21	18:P4:320:GLN:N	2.32	0.44
21:S1:1119:LEU:C	21:S1:1121:GLU:N	2.71	0.44
21:S4:946:LEU:HD11	22:T4:898:ARG:HG2	1.99	0.44
22:T4:887:LYS:HB3	22:T4:890:LEU:HD12	1.98	0.44
23:U3:284:SER:O	23:U3:288:ILE:HG12	2.16	0.44
23:U4:314:ILE:HD12	24:V4:309:LYS:CE	2.48	0.44
24:V3:391:CYS:O	24:V3:395:ILE:HD11	2.17	0.44
25:W1:52:HIS:CE1	25:W1:80:LEU:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:58:ILE:HG22	26:X1:59:GLU:N	2.33	0.44
26:X2:533:GLU:H	26:X2:533:GLU:HG2	1.45	0.44
26:X3:58:ILE:HG22	26:X3:59:GLU:N	2.33	0.44
26:X4:268:SER:HB2	26:X4:269:ASP:OD1	2.17	0.44
26:X4:328:LEU:HA	26:X4:331:TYR:HB2	2.00	0.44
27:Y2:31:GLN:OE1	27:Y2:52:ARG:NH1	2.50	0.44
27:Y2:131:ASP:OD2	27:Y2:135:ARG:NH2	2.51	0.44
27:Y2:219:SER:HG	27:Y2:312:TRP:HD1	1.62	0.44
27:Y3:131:ASP:OD2	27:Y3:135:ARG:NH2	2.51	0.44
27:Y4:131:ASP:OD2	27:Y4:135:ARG:NH2	2.51	0.44
28:Z1:668:TYR:CZ	28:Z1:672:LYS:HE3	2.53	0.44
28:Z3:658:HIS:HA	28:Z3:661:GLN:OE1	2.18	0.44
1:A1:861:GLN:HB2	1:A1:882:SER:HB3	1.99	0.43
1:A1:1332:ARG:HH22	6:D1:682:ASN:N	2.16	0.43
2:A2:1342:SER:OG	2:A2:1343:GLY:N	2.50	0.43
1:A3:1132:PRO:N	3:A6:653:ARG:HH22	2.14	0.43
1:A3:1162:ASN:ND2	3:A6:732:GLN:CD	2.71	0.43
1:A3:1274:ASP:HB3	3:A6:556:PRO:HB2	1.98	0.43
2:A4:89:LEU:HA	3:A6:431:PHE:H	1.82	0.43
2:A4:552:PHE:O	3:A6:435:PRO:O	2.36	0.43
2:A4:552:PHE:C	3:A6:456:ASP:O	2.56	0.43
2:A4:554:GLN:OE1	3:A6:457:LYS:HB2	2.12	0.43
2:A4:574:ARG:HB2	3:A6:454:GLN:HA	1.99	0.43
2:A4:731:ILE:CG2	3:A6:95:TYR:HB2	2.47	0.43
2:A4:761:GLN:NE2	3:A6:545:GLY:CA	2.79	0.43
2:A4:779:ASP:OD2	3:A6:519:LEU:C	2.56	0.43
2:A4:893:LEU:CD2	3:A6:177:ILE:H	2.23	0.43
3:A5:1377:ARG:N	28:Z2:811:LEU:CB	2.81	0.43
3:A6:1411:ARG:HG2	26:X4:690:THR:N	2.10	0.43
6:D5:445:LEU:HD12	6:D5:446:GLU:N	2.33	0.43
8:F2:134:ASP:OD2	8:F2:1056:ARG:NH2	2.51	0.43
11:I1:846:ILE:CB	15:M1:594:LYS:HB3	2.48	0.43
11:I1:846:ILE:HB	17:O1:247:TRP:CZ2	2.51	0.43
11:I1:875:ARG:N	17:O1:251:ILE:HG22	2.33	0.43
11:I1:947:LEU:CD1	16:N1:408:MET:HA	2.47	0.43
11:I1:1055:GLU:HA	17:O1:281:ALA:HB3	2.00	0.43
11:I1:1333:THR:N	11:I1:1334:PRO:CD	2.81	0.43
11:I1:1639:LEU:HD11	11:I2:1674:HIS:HB2	2.00	0.43
11:I1:1675:VAL:HG23	11:I2:1671:LEU:HD13	1.99	0.43
11:I2:352:ASN:OD1	11:I2:353:LEU:N	2.52	0.43
11:I2:837:MET:CE	17:O3:243:LEU:HG	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:877:ILE:HG12	17:O3:254:ARG:CG	2.16	0.43
11:I2:1018:LYS:HD2	16:N3:413:VAL:HA	1.54	0.43
11:I2:1116:ASP:OD2	12:J2:241:THR:HG21	2.17	0.43
11:I4:271:ASP:OD1	11:I4:272:LYS:N	2.49	0.43
17:O1:99:LEU:O	17:O1:137:VAL:N	2.51	0.43
17:O2:99:LEU:O	17:O2:137:VAL:N	2.51	0.43
21:S2:615:ILE:O	21:S2:620:LEU:CB	2.66	0.43
22:T1:774:PRO:HG2	22:T1:792:GLU:HA	2.00	0.43
24:V3:311:ALA:HB1	24:V3:316:ASN:O	2.18	0.43
25:W3:18:ASP:OD1	25:W3:18:ASP:N	2.46	0.43
26:X1:141:ASN:N	26:X1:141:ASN:HD22	2.16	0.43
26:X1:215:SER:HB2	26:X1:390:TRP:CZ2	2.54	0.43
26:X3:221:GLU:HA	26:X3:224:ILE:HG13	2.00	0.43
26:X4:215:SER:HB2	26:X4:390:TRP:CZ2	2.53	0.43
26:X4:221:GLU:HA	26:X4:224:ILE:HG13	2.00	0.43
27:Y1:107:SER:HA	27:Y1:135:ARG:HH21	1.83	0.43
27:Y3:31:GLN:OE1	27:Y3:52:ARG:NH1	2.50	0.43
28:Z1:736:ASN:C	28:Z1:738:ARG:H	2.21	0.43
28:Z4:668:TYR:CZ	28:Z4:672:LYS:HE3	2.53	0.43
2:A2:199:PHE:CA	4:B2:353:LEU:HA	2.28	0.43
2:A2:870:HIS:CD2	6:D1:551:PHE:C	2.91	0.43
2:A2:987:LYS:CE	6:D1:555:ARG:H	2.31	0.43
1:A3:1201:ARG:CG	3:A6:548:LEU:CB	2.86	0.43
2:A4:349:LYS:NZ	2:A4:352:GLU:OE1	2.49	0.43
2:A4:675:ALA:HB3	3:A6:101:TYR:HB3	1.53	0.43
2:A4:764:MET:CE	3:A6:494:PRO:CB	2.60	0.43
2:A4:780:GLU:CB	6:D3:677:GLN:HB3	2.23	0.43
2:A4:880:ALA:HB1	6:D3:558:LYS:HD3	1.99	0.43
3:A5:1004:HIS:CE1	11:I5:62:GLU:H	2.29	0.43
3:A5:1391:ARG:CA	28:Z2:871:HIS:CB	2.56	0.43
3:A5:1411:ARG:NH2	26:X2:744:MET:C	2.66	0.43
3:A6:517:ILE:HG23	6:D3:683:LYS:HE2	1.68	0.43
6:D6:382:ASN:OD1	6:D6:383:THR:N	2.50	0.43
6:D6:445:LEU:HD12	6:D6:445:LEU:C	2.39	0.43
8:F2:1120:HIS:O	8:F2:1124:THR:HG23	2.18	0.43
11:I1:660:THR:OG1	11:I1:661:HIS:N	2.51	0.43
11:I1:919:ALA:HA	16:N1:389:PHE:HB3	1.32	0.43
11:I1:939:ASN:O	17:O1:265:ASN:CA	2.66	0.43
11:I1:961:ARG:HH12	16:N1:389:PHE:CA	1.93	0.43
11:I1:987:GLY:N	15:M1:613:ASP:HB3	2.31	0.43
11:I1:1106:LYS:N	16:N1:440:GLU:OE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:874:LEU:CD2	17:O3:252:VAL:O	2.55	0.43
11:I2:880:MET:HG2	17:O3:247:TRP:CE3	2.53	0.43
11:I2:951:LYS:CG	17:O3:253:LEU:CD1	2.96	0.43
11:I2:977:ASN:O	20:R3:151:LYS:CB	2.63	0.43
11:I2:990:GLU:HB3	17:O3:272:SER:C	2.36	0.43
11:I2:998:ALA:HB2	17:O3:267:ALA:HB1	1.90	0.43
11:I2:1054:ILE:HA	17:O3:280:GLU:C	2.38	0.43
11:I2:1119:ARG:HH12	12:J2:240:GLY:HA3	1.83	0.43
11:I3:1015:TYR:OH	11:I3:1089:TYR:O	2.31	0.43
11:I4:1116:ASP:OD2	12:J4:241:THR:HG21	2.17	0.43
17:O3:156:ILE:CG2	17:O3:157:THR:N	2.81	0.43
21:S1:1020:LEU:H	21:S1:1020:LEU:CD2	2.31	0.43
21:S2:1020:LEU:H	21:S2:1020:LEU:CD2	2.31	0.43
22:T3:781:THR:HG23	22:T3:783:THR:N	2.33	0.43
22:T4:774:PRO:HG2	22:T4:792:GLU:HA	2.00	0.43
22:T4:891:VAL:O	22:T4:891:VAL:HG12	2.17	0.43
23:U1:385:LEU:O	23:U1:389:VAL:HG23	2.18	0.43
23:U4:222:VAL:O	24:V4:256:VAL:HG22	2.18	0.43
25:W1:63:HIS:CD2	25:W1:64:PRO:HD2	2.53	0.43
25:W2:52:HIS:CE1	25:W2:80:LEU:HD12	2.53	0.43
26:X1:406:LEU:HB2	26:X1:407:PRO:HD3	1.98	0.43
26:X2:141:ASN:N	26:X2:141:ASN:HD22	2.16	0.43
28:Z3:427:LEU:HD13	28:Z3:442:TYR:CE1	2.53	0.43
1:A1:1221:ILE:HG12	2:A2:642:ARG:CB	2.06	0.43
2:A2:1135:ARG:HG3	3:A5:138:LEU:HG	1.48	0.43
1:A3:1099:GLN:CG	11:I2:1414:CYS:C	2.64	0.43
1:A3:1169:LEU:CA	3:A6:590:SER:O	2.61	0.43
1:A3:1190:ILE:CD1	3:A6:617:VAL:HG12	2.36	0.43
1:A3:1200:ARG:HB3	2:A4:727:ASN:O	2.17	0.43
1:A3:1233:GLN:CD	3:A6:605:TYR:CE2	2.63	0.43
1:A3:1254:LEU:O	3:A6:623:SER:HB2	2.17	0.43
1:A3:1257:VAL:HG12	3:A6:617:VAL:O	2.19	0.43
1:A3:1386:GLU:C	3:A6:224:PRO:HB2	2.39	0.43
2:A4:215:ILE:HG21	2:A4:272:ILE:HD11	2.01	0.43
2:A4:701:ILE:CD1	3:A6:479:VAL:O	2.66	0.43
2:A4:761:GLN:CG	3:A6:545:GLY:CA	2.86	0.43
2:A4:871:ASN:HB2	6:D3:571:SER:N	2.33	0.43
2:A4:901:ALA:HB1	3:A6:133:LYS:HZ1	1.83	0.43
2:A4:941:ALA:HA	4:B6:350:GLU:CG	2.33	0.43
2:A4:958:LEU:CD1	4:B6:343:LYS:H	1.08	0.43
2:A4:970:PHE:HE1	6:D3:192:TYR:HE1	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:175:GLU:OE2	5:C2:735:ILE:CA	2.66	0.43
3:A6:108:SER:HG	3:A6:456:ASP:H	1.64	0.43
3:A6:442:ARG:HE	6:D3:692:LEU:CG	2.30	0.43
3:A6:442:ARG:HD3	6:D3:691:LEU:HG	1.94	0.43
6:D1:445:LEU:HD12	6:D1:445:LEU:C	2.39	0.43
6:D1:587:LEU:HD13	6:D1:631:LEU:HA	1.99	0.43
6:D1:749:LEU:CD2	6:D1:792:LEU:HD22	2.48	0.43
6:D7:445:LEU:HD12	6:D7:445:LEU:C	2.39	0.43
6:D7:481:ARG:CG	11:I3:183:LYS:HE2	2.42	0.43
8:F1:134:ASP:OD2	8:F1:1056:ARG:NH2	2.51	0.43
8:F1:511:ALA:O	8:F1:1008:TYR:N	2.43	0.43
8:F2:140:GLU:HB3	17:O4:237:PRO:HG2	1.20	0.43
8:F2:1392:LEU:N	8:F2:1393:PRO:CD	2.82	0.43
9:G1:258:LYS:NZ	16:N2:408:MET:HE3	2.33	0.43
11:I1:833:PHE:CZ	17:O1:242:ARG:N	2.86	0.43
11:I1:952:LEU:CD1	16:N1:400:LEU:HD11	2.47	0.43
11:I1:976:ARG:HD3	20:R1:146:LEU:HD23	1.17	0.43
11:I1:1057:LYS:O	17:O1:276:GLY:O	2.36	0.43
11:I2:480:ASP:OD1	11:I2:481:ALA:N	2.51	0.43
11:I2:951:LYS:CG	17:O3:253:LEU:HD11	2.48	0.43
11:I2:1106:LYS:C	16:N3:439:ARG:HG3	2.39	0.43
11:I2:1185:ILE:HA	17:O4:221:ASP:OD2	2.18	0.43
11:I3:1266:ALA:O	26:X1:528:GLU:CA	2.67	0.43
11:I4:1333:THR:N	11:I4:1334:PRO:CD	2.81	0.43
11:I5:271:ASP:OD1	11:I5:272:LYS:N	2.49	0.43
12:J4:240:GLY:O	12:J4:241:THR:OG1	2.28	0.43
17:O4:111:TYR:CZ	18:P4:321:ILE:CG1	3.01	0.43
17:O4:156:ILE:CG2	17:O4:157:THR:N	2.81	0.43
21:S2:404:LEU:O	21:S2:405:CYS:HB2	2.18	0.43
21:S3:407:LEU:HD11	21:S3:417:ALA:HB1	2.00	0.43
21:S4:680:PRO:O	21:S4:681:SER:C	2.56	0.43
23:U2:81:LEU:HD12	23:U2:350:VAL:HG12	2.01	0.43
23:U3:81:LEU:HD12	23:U3:350:VAL:HG12	2.01	0.43
23:U4:81:LEU:HD12	23:U4:350:VAL:HG12	2.01	0.43
24:V2:400:LEU:HB3	24:V2:426:TYR:OH	2.18	0.43
24:V4:168:LYS:HE2	25:W4:45:LEU:HB2	2.01	0.43
25:W2:63:HIS:CD2	25:W2:64:PRO:HD2	2.53	0.43
25:W3:35:ILE:HB	25:W3:47:ASP:HB2	2.00	0.43
26:X3:335:PHE:O	26:X3:339:ILE:HG13	2.19	0.43
27:Y1:31:GLN:OE1	27:Y1:52:ARG:NH1	2.50	0.43
27:Y1:131:ASP:OD2	27:Y1:135:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z2:446:LEU:HD23	28:Z2:446:LEU:HA	1.88	0.43
28:Z3:352:ILE:HD13	28:Z3:471:ILE:HG12	1.99	0.43
1:A1:1399:ARG:CB	2:A2:884:ARG:CG	2.93	0.43
2:A2:982:THR:HG23	6:D1:496:LEU:C	2.12	0.43
2:A2:1139:ILE:CG2	3:A5:135:PHE:CG	3.01	0.43
1:A3:1228:TYR:C	3:A6:574:ARG:HB2	2.37	0.43
1:A3:1230:TYR:CE1	3:A6:610:THR:C	2.60	0.43
1:A3:1254:LEU:HA	3:A6:638:GLU:HG3	2.01	0.43
1:A3:1333:ARG:C	6:D3:637:LYS:HZ3	2.13	0.43
2:A4:691:LYS:C	3:A6:316:ARG:CZ	2.87	0.43
2:A4:764:MET:HE1	3:A6:494:PRO:HB3	1.99	0.43
2:A4:792:VAL:CG1	3:A6:188:ALA:CB	2.96	0.43
2:A4:855:THR:HG21	3:A6:168:ASP:C	2.29	0.43
2:A4:864:ARG:CD	6:D3:609:ILE:H	2.32	0.43
2:A4:873:PRO:O	6:D3:563:GLU:HB3	2.19	0.43
2:A4:951:GLU:HG2	3:A6:234:LEU:H	1.80	0.43
2:A4:958:LEU:HD23	4:B6:343:LYS:HD2	1.99	0.43
3:A5:186:ILE:O	5:C2:746:PRO:HD2	2.03	0.43
3:A6:442:ARG:CB	6:D3:691:LEU:C	2.65	0.43
3:A6:445:THR:O	6:D3:730:ARG:NH1	2.33	0.43
6:D1:649:VAL:HG12	6:D1:660:LYS:HD2	2.01	0.43
6:D4:650:VAL:HB	6:D4:651:PRO:HD3	1.99	0.43
9:G1:252:LEU:CD2	17:O2:254:ARG:HH21	2.30	0.43
9:G2:256:GLN:HG2	17:O4:262:ASP:N	2.28	0.43
11:I1:952:LEU:CG	15:M1:599:ILE:HG12	2.48	0.43
11:I1:957:SER:N	20:R1:166:LEU:HD13	1.65	0.43
11:I1:1021:ILE:HD11	16:N1:410:MET:SD	2.52	0.43
11:I1:1042:LEU:N	20:R1:170:LEU:HD11	2.34	0.43
11:I1:1666:THR:CG2	11:I2:1602:PHE:CD1	2.85	0.43
11:I2:938:CYS:HB2	17:O3:261:LYS:NZ	2.32	0.43
11:I2:982:GLN:N	15:M3:621:ARG:NH1	2.65	0.43
11:I2:1033:PRO:N	15:M3:627:LEU:HD23	2.29	0.43
11:I2:1043:LEU:CA	16:N3:430:ARG:HD2	2.43	0.43
11:I2:1048:GLU:CG	17:O3:288:GLU:OE2	2.67	0.43
11:I2:1055:GLU:C	17:O3:278:GLU:HG2	2.38	0.43
11:I4:1119:ARG:HH12	12:J4:240:GLY:HA3	1.83	0.43
16:N4:433:GLU:OE2	20:R4:174:ARG:NH2	2.51	0.43
17:O4:99:LEU:O	17:O4:137:VAL:N	2.51	0.43
21:S2:690:PHE:C	21:S2:692:GLU:N	2.71	0.43
21:S3:987:MET:HE3	21:S3:991:LYS:HE2	1.99	0.43
22:T2:917:ASP:OD1	22:T2:921:TYR:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:314:ILE:HD12	24:V1:309:LYS:CE	2.48	0.43
23:U2:23:LYS:HD2	23:U2:434:THR:HG21	2.01	0.43
23:U2:210:MET:SD	24:V2:333:ILE:HG23	2.59	0.43
23:U2:314:ILE:HD12	24:V2:309:LYS:CE	2.48	0.43
23:U4:210:MET:SD	24:V4:333:ILE:HG23	2.59	0.43
24:V2:311:ALA:HB1	24:V2:316:ASN:O	2.18	0.43
24:V3:393:GLY:O	24:V3:394:GLN:HB2	2.17	0.43
24:V3:394:GLN:HG2	24:V3:397:GLU:HB2	1.99	0.43
24:V4:365:SER:HB3	24:V4:368:GLU:HB2	2.01	0.43
26:X1:221:GLU:HA	26:X1:224:ILE:HG13	2.00	0.43
26:X3:141:ASN:N	26:X3:141:ASN:HD22	2.15	0.43
26:X3:390:TRP:C	26:X3:393:PRO:HD2	2.39	0.43
26:X4:285:VAL:O	26:X4:289:ILE:HG13	2.18	0.43
27:Y2:107:SER:HA	27:Y2:135:ARG:HH21	1.83	0.43
27:Y3:107:SER:HA	27:Y3:135:ARG:HH21	1.83	0.43
28:Z1:352:ILE:HD13	28:Z1:471:ILE:HG12	1.99	0.43
28:Z1:534:ASP:HA	28:Z1:537:THR:OG1	2.18	0.43
1:A1:1203:TYR:H	2:A2:730:THR:C	2.21	0.43
2:A2:215:ILE:HG21	2:A2:272:ILE:HD11	2.01	0.43
2:A2:780:GLU:HB3	6:D1:679:ILE:HD11	1.72	0.43
2:A2:1132:PRO:C	3:A5:145:THR:OG1	2.56	0.43
2:A2:1243:SER:C	2:A2:1245:ASP:H	2.22	0.43
2:A2:1249:PHE:N	2:A2:1250:PRO:CD	2.81	0.43
1:A3:1017:THR:HG21	1:A3:1048:ARG:NH1	2.33	0.43
1:A3:1169:LEU:HB3	3:A6:590:SER:O	2.18	0.43
1:A3:1186:TRP:N	3:A6:639:ASN:HA	2.05	0.43
1:A3:1195:PHE:CD2	3:A6:677:ALA:N	2.87	0.43
1:A3:1321:MET:CE	3:A6:126:ARG:HH12	2.19	0.43
2:A4:92:ASP:HB3	3:A6:365:MET:HE3	2.00	0.43
2:A4:802:TYR:HB2	3:A6:380:ALA:O	2.17	0.43
2:A4:808:GLN:HB2	3:A6:319:TYR:CD2	2.54	0.43
3:A5:234:LEU:HB2	5:C2:737:LYS:CB	2.48	0.43
3:A5:1367:THR:CG2	28:Z2:844:CYS:C	2.37	0.43
3:A6:115:SER:HB3	6:D3:683:LYS:HG2	1.99	0.43
3:A6:485:ASN:HA	6:D3:673:ARG:HA	1.72	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:HD11	2.00	0.43
6:D2:584:LEU:HD22	6:D2:609:ILE:HD11	2.01	0.43
6:D3:445:LEU:HD12	6:D3:445:LEU:C	2.39	0.43
7:E4:94:ILE:HG23	7:E4:94:ILE:O	2.19	0.43
11:I1:480:ASP:OD1	11:I1:481:ALA:N	2.52	0.43
11:I1:840:LEU:HB2	17:O1:243:LEU:CB	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1066:LEU:HB2	16:N1:430:ARG:CD	2.10	0.43
11:I1:1067:PHE:CG	16:N1:432:TYR:CA	2.91	0.43
11:I2:947:LEU:HG	16:N3:408:MET:N	2.21	0.43
11:I2:1031:ALA:CA	20:R3:173:LEU:O	2.67	0.43
11:I2:1279:THR:N	11:I2:1280:PRO:CD	2.82	0.43
11:I5:352:ASN:OD1	11:I5:353:LEU:N	2.52	0.43
16:N3:429:GLU:N	16:N3:429:GLU:OE2	2.52	0.43
17:O4:156:ILE:HG22	17:O4:157:THR:N	2.34	0.43
21:S1:680:PRO:O	21:S1:681:SER:C	2.56	0.43
21:S3:946:LEU:HD11	22:T3:898:ARG:HG2	1.99	0.43
21:S4:615:ILE:O	21:S4:620:LEU:CB	2.66	0.43
23:U1:81:LEU:HD12	23:U1:350:VAL:HG12	2.01	0.43
23:U2:390:THR:O	23:U2:394:ILE:HG12	2.19	0.43
23:U3:227:ILE:C	23:U3:229:ASN:H	2.22	0.43
24:V2:365:SER:HB3	24:V2:368:GLU:HB2	2.01	0.43
24:V4:400:LEU:HB3	24:V4:426:TYR:OH	2.18	0.43
24:V4:513:MET:HG2	24:V4:541:ALA:HB2	1.99	0.43
25:W3:52:HIS:CE1	25:W3:80:LEU:HD12	2.53	0.43
26:X2:215:SER:HB2	26:X2:390:TRP:CZ2	2.54	0.43
26:X3:285:VAL:O	26:X3:289:ILE:HG13	2.18	0.43
27:Y4:219:SER:HG	27:Y4:312:TRP:HD1	1.67	0.43
28:Z1:177:PHE:HD1	28:Z1:183:LEU:HD22	1.84	0.43
28:Z4:352:ILE:HD13	28:Z4:471:ILE:HG12	1.99	0.43
28:Z4:427:LEU:HD13	28:Z4:442:TYR:CE1	2.53	0.43
1:A1:773:PHE:CZ	1:A1:818:LEU:HD12	2.48	0.43
1:A1:1401:VAL:H	2:A2:884:ARG:HH12	1.61	0.43
2:A2:225:THR:HG23	6:D1:709:ARG:HB2	0.95	0.43
2:A2:976:LEU:HA	6:D1:502:LEU:HB2	2.01	0.43
2:A2:984:ALA:HB2	6:D1:553:PHE:HD2	1.79	0.43
1:A3:1172:HIS:HB3	3:A6:586:CYS:O	2.18	0.43
1:A3:1271:ILE:HD13	3:A6:552:PHE:H	1.83	0.43
2:A4:89:LEU:HD22	3:A6:404:LEU:HB3	1.95	0.43
2:A4:203:ILE:HD11	4:B4:352:ALA:HA	2.00	0.43
2:A4:554:GLN:NE2	3:A6:368:SER:O	2.52	0.43
2:A4:615:LEU:O	3:A6:498:ARG:HD2	2.18	0.43
2:A4:693:VAL:H	3:A6:316:ARG:NH2	2.16	0.43
2:A4:710:LEU:HA	3:A6:462:LEU:HD13	1.99	0.43
2:A4:869:ALA:N	6:D3:570:VAL:CG2	2.81	0.43
2:A4:870:HIS:HD2	6:D3:548:LEU:O	2.02	0.43
2:A4:875:LEU:CD1	6:D3:567:LEU:CA	2.92	0.43
2:A4:1243:SER:C	2:A4:1245:ASP:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1029:ILE:HB	11:I5:68:ILE:H	1.67	0.43
3:A5:1397:LEU:HA	28:Z2:911:GLU:CB	2.49	0.43
3:A6:1411:ARG:HG2	26:X4:687:SER:C	2.39	0.43
6:D2:445:LEU:HD12	6:D2:445:LEU:C	2.39	0.43
6:D2:650:VAL:HB	6:D2:651:PRO:HD3	1.99	0.43
6:D3:649:VAL:HG12	6:D3:660:LYS:HD2	2.01	0.43
6:D4:749:LEU:CD2	6:D4:792:LEU:HD22	2.48	0.43
6:D6:192:TYR:OH	6:D6:498:GLU:OE1	2.33	0.43
11:I1:837:MET:HG3	17:O1:238:ALA:C	2.37	0.43
11:I1:952:LEU:CA	16:N1:403:VAL:HG11	2.30	0.43
11:I1:1021:ILE:CG1	16:N1:410:MET:CA	2.88	0.43
11:I1:1050:SER:HB2	17:O1:290:TYR:HB3	1.38	0.43
11:I2:890:TYR:CB	17:O3:238:ALA:C	2.86	0.43
11:I2:953:LEU:HG	15:M3:602:MET:O	2.18	0.43
11:I2:1067:PHE:CD1	16:N3:430:ARG:O	2.70	0.43
11:I4:352:ASN:OD1	11:I4:353:LEU:N	2.52	0.43
17:O3:102:LYS:CD	18:P3:322:LYS:NZ	2.60	0.43
17:O3:148:ARG:NH2	18:P3:325:ILE:CG2	2.70	0.43
20:R2:147:LEU:O	20:R2:151:LYS:N	2.52	0.43
21:S1:404:LEU:O	21:S1:405:CYS:HB2	2.18	0.43
21:S2:953:LEU:HD23	21:S2:953:LEU:HA	1.87	0.43
21:S2:1052:LEU:HA	21:S2:1052:LEU:HD13	1.81	0.43
21:S4:176:MET:HE1	21:S4:232:LEU:CD1	2.47	0.43
21:S4:407:LEU:HD11	21:S4:417:ALA:HB1	2.00	0.43
22:T1:822:LEU:HD21	22:T1:880:MET:HG3	2.01	0.43
22:T2:669:ARG:HA	22:T2:669:ARG:HD3	1.85	0.43
22:T2:781:THR:HG23	22:T2:783:THR:N	2.33	0.43
23:U1:106:GLU:O	23:U1:110:MET:HG2	2.18	0.43
23:U2:106:GLU:O	23:U2:110:MET:HG2	2.18	0.43
23:U4:106:GLU:O	23:U4:110:MET:HG2	2.18	0.43
23:U4:227:ILE:C	23:U4:229:ASN:H	2.22	0.43
24:V1:345:SER:HB3	24:V1:371:PHE:HE2	1.84	0.43
25:W3:280:LEU:HB2	25:W3:292:ALA:O	2.19	0.43
26:X1:335:PHE:O	26:X1:339:ILE:HG13	2.19	0.43
26:X2:58:ILE:HG22	26:X2:59:GLU:N	2.33	0.43
26:X2:390:TRP:C	26:X2:393:PRO:HD2	2.39	0.43
28:Z3:295:ASN:ND2	28:Z3:329:TRP:O	2.52	0.43
1:A1:1400:SER:HA	2:A2:885:LEU:HD21	2.01	0.43
2:A2:876:ARG:CZ	6:D1:563:GLU:C	2.28	0.43
2:A2:987:LYS:HD3	6:D1:555:ARG:CZ	2.19	0.43
1:A3:1120:ASP:HB3	3:A6:596:ARG:HA	0.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1221:ILE:HD11	2:A4:618:ALA:HB2	2.01	0.43
1:A3:1236:GLN:HG3	3:A6:581:LYS:CB	2.34	0.43
1:A3:1399:ARG:CG	2:A4:888:GLN:CG	2.89	0.43
2:A4:80:LYS:HE2	3:A6:386:ALA:HB3	2.01	0.43
2:A4:85:VAL:CG2	3:A6:405:PHE:CD1	3.01	0.43
2:A4:550:VAL:CG1	3:A6:362:PHE:HE1	2.32	0.43
2:A4:615:LEU:CD2	3:A6:101:TYR:CD2	3.01	0.43
2:A4:754:HIS:CE1	3:A6:537:ALA:CB	2.96	0.43
2:A4:870:HIS:HD1	6:D3:566:PHE:HA	1.83	0.43
2:A4:968:SER:HB2	6:D3:201:LEU:HA	2.01	0.43
3:A5:232:LEU:HD23	5:C2:736:ASN:C	2.39	0.43
3:A5:232:LEU:HG	5:C2:739:MET:N	2.19	0.43
3:A5:234:LEU:HA	5:C2:738:ASP:CA	2.23	0.43
3:A6:446:LEU:HG	6:D3:721:PRO:CA	2.45	0.43
6:D1:584:LEU:HD22	6:D1:609:ILE:CD1	2.49	0.43
6:D2:584:LEU:HD22	6:D2:609:ILE:CD1	2.49	0.43
6:D7:749:LEU:CD2	6:D7:792:LEU:HD22	2.48	0.43
8:F1:1137:GLN:CB	17:O2:245:GLU:C	2.60	0.43
9:G1:252:LEU:O	15:M2:602:MET:N	2.52	0.43
11:I1:846:ILE:HG21	17:O1:247:TRP:HZ2	1.67	0.43
11:I1:926:SER:HB3	15:M1:597:LYS:HZ1	1.00	0.43
11:I1:948:ALA:HB3	17:O1:252:VAL:O	2.18	0.43
11:I1:950:LEU:N	16:N1:407:ALA:HB2	2.32	0.43
11:I1:1013:GLU:O	16:N1:411:GLN:NE2	2.43	0.43
11:I1:1034:ASP:HB2	16:N1:444:SER:OG	2.16	0.43
11:I1:1052:LEU:HD11	15:M1:623:LEU:HD11	1.96	0.43
11:I1:1101:LEU:CD2	16:N1:432:TYR:CD1	3.01	0.43
11:I1:1119:ARG:HH12	12:J1:240:GLY:HA3	1.84	0.43
11:I1:1279:THR:N	11:I1:1280:PRO:CD	2.82	0.43
11:I2:847:THR:CG2	15:M3:594:LYS:NZ	2.72	0.43
11:I2:899:LEU:CD1	17:O3:232:LYS:C	2.82	0.43
11:I2:953:LEU:HD22	15:M3:603:SER:HG	1.80	0.43
11:I2:1048:GLU:C	15:M3:622:VAL:HG11	2.38	0.43
11:I2:1122:ASN:O	11:I2:1126:HIS:ND1	2.42	0.43
11:I2:1546:TRP:O	12:J1:300:ILE:HG21	2.17	0.43
16:N2:433:GLU:OE2	20:R2:174:ARG:NH2	2.51	0.43
17:O3:98:TYR:HD2	17:O3:125:ALA:HB2	1.83	0.43
17:O3:99:LEU:O	17:O3:137:VAL:N	2.51	0.43
21:S3:1119:LEU:O	21:S3:1121:GLU:N	2.52	0.43
21:S3:1120:PRO:CD	21:S3:1155:GLN:HE22	2.19	0.43
21:S4:1078:LEU:HD21	21:S4:1097:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T1:917:ASP:HB2	22:T1:918:PRO:CD	2.47	0.43
22:T4:712:PHE:HZ	22:T4:751:ARG:HD3	1.84	0.43
22:T4:822:LEU:HD21	22:T4:880:MET:HG3	2.01	0.43
23:U1:109:LEU:HD23	23:U1:298:ILE:HG13	2.00	0.43
23:U2:143:LYS:HG3	23:U2:144:TRP:N	2.32	0.43
23:U3:77:LEU:HG	23:U3:125:TRP:CD2	2.54	0.43
24:V2:247:TYR:CE2	24:V2:260:LEU:HD13	2.54	0.43
24:V3:513:MET:HG2	24:V3:541:ALA:HB2	1.99	0.43
25:W2:280:LEU:HB2	25:W2:292:ALA:O	2.19	0.43
26:X4:390:TRP:C	26:X4:393:PRO:HD2	2.39	0.43
27:Y3:219:SER:HG	27:Y3:312:TRP:HD1	1.63	0.43
28:Z2:177:PHE:HD1	28:Z2:183:LEU:HD22	1.84	0.43
28:Z2:736:ASN:C	28:Z2:738:ARG:H	2.21	0.43
28:Z4:736:ASN:C	28:Z4:738:ARG:H	2.21	0.43
1:A1:1200:ARG:CB	2:A2:727:ASN:HA	2.49	0.43
1:A1:1202:GLU:HA	2:A2:735:ALA:HB3	2.01	0.43
1:A1:1224:PRO:HG3	2:A2:731:ILE:HD12	1.97	0.43
2:A2:977:VAL:HG21	6:D1:490:VAL:O	2.19	0.43
1:A3:1192:GLN:HA	3:A6:675:ALA:HB1	2.00	0.43
1:A3:1196:GLU:O	1:A3:1200:ARG:HD3	2.19	0.43
1:A3:1196:GLU:O	2:A4:730:THR:N	2.52	0.43
1:A3:1311:ARG:CD	3:A6:712:THR:CA	2.78	0.43
2:A4:88:THR:CG2	3:A6:102:CYS:O	2.67	0.43
2:A4:859:GLN:HB2	3:A6:131:PRO:HD2	1.97	0.43
2:A4:872:ALA:N	2:A4:873:PRO:CD	2.81	0.43
2:A4:954:ILE:H	4:B6:345:LYS:C	2.22	0.43
3:A5:889:VAL:HB	3:A5:892:SER:OG	2.18	0.43
3:A5:1003:PHE:CD2	11:I5:62:GLU:OE1	2.71	0.43
3:A5:1028:VAL:C	11:I5:67:LYS:CB	2.19	0.43
3:A5:1312:ARG:HH22	28:Z2:838:GLN:CA	2.29	0.43
3:A6:199:PHE:HA	4:B6:353:LEU:HA	2.00	0.43
3:A6:485:ASN:C	6:D3:671:ALA:O	2.56	0.43
6:D4:445:LEU:C	6:D4:445:LEU:HD12	2.39	0.43
6:D4:445:LEU:HD12	6:D4:446:GLU:N	2.33	0.43
6:D4:584:LEU:HD22	6:D4:609:ILE:HD11	2.00	0.43
6:D5:584:LEU:HD22	6:D5:609:ILE:HD11	2.01	0.43
6:D5:649:VAL:HG12	6:D5:660:LYS:HD2	2.01	0.43
6:D6:646:LEU:HD22	6:D6:696:ILE:HD11	1.98	0.43
7:E5:94:ILE:HG23	7:E5:94:ILE:O	2.19	0.43
9:G1:254:ASN:ND2	17:O2:261:LYS:NZ	2.66	0.43
11:I1:888:GLU:CG	17:O1:242:ARG:HH12	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:920:PHE:HB2	17:O1:243:LEU:HD21	1.91	0.43
11:I1:952:LEU:HD13	16:N1:400:LEU:CD2	2.22	0.43
11:I1:1048:GLU:OE2	17:O1:288:GLU:HG2	2.19	0.43
11:I1:1662:ARG:HB3	11:I2:1603:ARG:NH1	2.33	0.43
11:I2:72:GLU:N	11:I2:72:GLU:OE1	2.52	0.43
11:I2:833:PHE:CD2	17:O3:238:ALA:HA	2.53	0.43
11:I2:900:ARG:H	17:O3:232:LYS:HB3	1.80	0.43
11:I2:962:ILE:HG12	15:M3:600:ASN:CG	2.38	0.43
11:I2:990:GLU:O	17:O3:271:GLU:CA	2.59	0.43
11:I2:1038:ILE:HG12	15:M3:620:VAL:HG12	1.28	0.43
11:I2:1114:VAL:HG11	16:N3:432:TYR:CD2	2.54	0.43
11:I3:1218:ASP:O	11:I3:1221:ASN:ND2	2.49	0.43
11:I5:1182:GLN:CG	12:J5:245:GLU:OE2	2.51	0.43
16:N4:429:GLU:N	16:N4:429:GLU:OE2	2.51	0.43
17:O1:156:ILE:HG22	17:O1:157:THR:N	2.33	0.43
17:O2:98:TYR:HD2	17:O2:125:ALA:HB2	1.83	0.43
17:O2:156:ILE:CG2	17:O2:157:THR:N	2.81	0.43
19:Q2:204[B]:MSE:HE2	19:Q2:211:MSE:HB2	2.00	0.43
21:S1:1119:LEU:O	21:S1:1121:GLU:N	2.52	0.43
21:S2:987:MET:HE3	21:S2:991:LYS:HE2	2.01	0.43
21:S3:686:ALA:CB	21:S4:1153:GLN:N	2.70	0.43
22:T1:698:LYS:HE2	22:T1:845:GLN:NE2	2.34	0.43
22:T2:698:LYS:HE2	22:T2:845:GLN:NE2	2.34	0.43
22:T3:774:PRO:HG2	22:T3:792:GLU:HA	2.00	0.43
22:T4:814:LYS:HB3	22:T4:814:LYS:HE2	1.79	0.43
23:U1:210:MET:SD	24:V1:333:ILE:HG23	2.59	0.43
23:U1:341:HIS:HA	23:U1:342:PRO:HD3	1.89	0.43
23:U2:382:LYS:HA	23:U2:383:PRO:HD3	1.77	0.43
23:U3:433:ALA:O	23:U3:435:PHE:N	2.45	0.43
23:U4:385:LEU:O	23:U4:389:VAL:HG23	2.18	0.43
24:V1:311:ALA:HB1	24:V1:316:ASN:O	2.18	0.43
24:V1:416:ASP:HA	24:V1:443:THR:CG2	2.44	0.43
24:V3:168:LYS:HE2	25:W3:45:LEU:HB2	2.00	0.43
24:V3:203:ARG:NE	24:V3:210:GLN:HB2	2.34	0.43
24:V4:311:ALA:HB1	24:V4:316:ASN:O	2.18	0.43
26:X1:390:TRP:C	26:X1:393:PRO:HD2	2.39	0.43
26:X2:328:LEU:HA	26:X2:331:TYR:HB2	2.00	0.43
26:X4:141:ASN:N	26:X4:141:ASN:HD22	2.16	0.43
26:X4:243:GLN:O	26:X4:247:LYS:HG3	2.19	0.43
28:Z1:508:LYS:O	28:Z1:512:THR:HG23	2.19	0.43
28:Z2:427:LEU:HD13	28:Z2:442:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Z3:534:ASP:HA	28:Z3:537:THR:OG1	2.18	0.43
1:A1:1200:ARG:HG2	2:A2:727:ASN:OD1	2.18	0.43
1:A1:1333:ARG:HA	6:D1:637:LYS:HD2	2.01	0.43
2:A2:687:LEU:HD23	2:A2:688:TRP:N	2.34	0.43
2:A2:985:ALA:CA	6:D1:498:GLU:CA	2.96	0.43
2:A2:1153:LEU:HG	3:A5:173:ASN:O	2.08	0.43
2:A2:1160:GLN:HB2	3:A5:176:LEU:HB3	2.00	0.43
1:A3:1018:ASP:OD2	6:D3:819:ASN:HA	2.05	0.43
1:A3:1282:PHE:CA	3:A6:625:LEU:HB3	2.44	0.43
1:A3:1393:THR:OG1	3:A6:229:SER:CA	2.61	0.43
2:A4:619:CYS:CB	3:A6:512:GLU:N	2.82	0.43
2:A4:646:ILE:HG13	3:A6:501:VAL:HG22	1.94	0.43
2:A4:711:VAL:N	3:A6:462:LEU:HD21	2.18	0.43
2:A4:721:ARG:HG2	3:A6:475:TYR:HE1	1.01	0.43
2:A4:774:VAL:HB	3:A6:479:VAL:H	1.84	0.43
2:A4:857:LYS:HZ2	3:A6:129:ASN:CB	2.32	0.43
2:A4:858:ALA:HB2	3:A6:174:PRO:N	2.34	0.43
3:A5:999:SER:HB3	11:I5:64:LYS:CE	2.48	0.43
3:A6:518:GLU:HB3	6:D3:686:ASP:C	2.38	0.43
6:D3:749:LEU:CD2	6:D3:792:LEU:HD22	2.48	0.43
6:D7:584:LEU:HD22	6:D7:609:ILE:CD1	2.49	0.43
7:E1:94:ILE:HG23	7:E1:94:ILE:O	2.19	0.43
9:G1:258:LYS:O	17:O2:256:TYR:CG	2.68	0.43
9:G1:260:THR:CG2	17:O2:259:ASP:HB3	2.42	0.43
11:I1:352:ASN:OD1	11:I1:353:LEU:N	2.52	0.43
11:I1:656:MET:O	11:I1:659:LYS:NZ	2.44	0.43
11:I1:849:LEU:HD12	17:O1:247:TRP:CZ3	2.53	0.43
11:I1:926:SER:HA	20:R1:156:GLY:H	1.78	0.43
11:I1:961:ARG:HB2	16:N1:392:THR:HG22	1.41	0.43
11:I1:1049:LEU:HB2	20:R1:146:LEU:CG	2.49	0.43
11:I1:1103:LEU:O	16:N1:440:GLU:CD	2.57	0.43
11:I2:797:LEU:HD21	17:O3:244:GLU:HB2	2.00	0.43
11:I2:884:LEU:HD13	16:N3:396:ILE:HG23	1.56	0.43
11:I2:925:LEU:CD2	20:R3:163:LEU:HB3	2.49	0.43
11:I2:958:THR:CA	16:N3:399:HIS:CD2	3.02	0.43
11:I3:72:GLU:N	11:I3:72:GLU:OE1	2.52	0.43
11:I3:1302:ARG:O	11:I3:1306:LEU:HD13	2.19	0.43
11:I4:480:ASP:OD1	11:I4:481:ALA:N	2.52	0.43
11:I4:1218:ASP:O	11:I4:1221:ASN:ND2	2.49	0.43
11:I5:1218:ASP:O	11:I5:1221:ASN:ND2	2.49	0.43
21:S2:1143:VAL:HA	21:S2:1146:ALA:CB	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T3:810:THR:OG1	22:T3:868:THR:HG21	2.19	0.43
23:U1:8:GLN:C	23:U1:10:GLU:N	2.68	0.43
23:U2:86:ASN:C	23:U2:88:ASP:H	2.23	0.43
23:U3:390:THR:O	23:U3:394:ILE:HG12	2.19	0.43
23:U4:390:THR:O	23:U4:394:ILE:HG12	2.19	0.43
24:V2:216:LEU:O	24:V2:217:LEU:HD23	2.19	0.43
24:V2:394:GLN:HG2	24:V2:397:GLU:HB2	2.00	0.43
26:X4:57:PRO:HB3	26:X4:91:TYR:OH	2.19	0.43
26:X4:335:PHE:O	26:X4:339:ILE:HG13	2.19	0.43
28:Z1:295:ASN:ND2	28:Z1:329:TRP:O	2.52	0.43
28:Z1:427:LEU:HD13	28:Z1:442:TYR:CE1	2.54	0.43
28:Z2:658:HIS:HA	28:Z2:661:GLN:OE1	2.18	0.43
28:Z4:291:LEU:HA	28:Z4:292:PRO:HD3	1.76	0.43
28:Z4:295:ASN:ND2	28:Z4:329:TRP:O	2.52	0.43
28:Z4:386:LEU:HD23	28:Z4:621:GLN:HA	2.01	0.43
2:A2:870:HIS:CD2	6:D1:551:PHE:CA	2.88	0.43
2:A2:1132:PRO:CG	3:A5:160:ILE:HG13	2.49	0.43
1:A3:1201:ARG:O	2:A4:732:GLN:C	2.23	0.43
1:A3:1204:TRP:CZ2	2:A4:676:LEU:HD12	2.53	0.43
1:A3:1233:GLN:CG	3:A6:575:LEU:HA	2.38	0.43
1:A3:1311:ARG:CZ	3:A6:715:GLU:OE2	2.51	0.43
2:A4:90:GLN:HG3	3:A6:406:LEU:HB3	2.00	0.43
2:A4:607:ARG:C	3:A6:506:SER:CA	2.58	0.43
2:A4:670:SER:OG	3:A6:542:LEU:HD23	2.03	0.43
2:A4:753:GLU:CG	3:A6:543:GLY:N	2.37	0.43
2:A4:780:GLU:CG	3:A6:524:ARG:CA	2.85	0.43
2:A4:801:THR:N	3:A6:330:LEU:HD23	2.26	0.43
2:A4:820:LYS:CB	3:A6:148:GLY:O	2.50	0.43
2:A4:875:LEU:CD1	6:D3:567:LEU:HD21	2.29	0.43
2:A4:875:LEU:CD1	6:D3:567:LEU:HA	2.48	0.43
2:A4:977:VAL:C	6:D3:496:LEU:HD11	2.09	0.43
2:A4:982:THR:C	6:D3:502:LEU:CD2	2.87	0.43
3:A5:1374:ALA:N	28:Z2:824:PHE:HA	2.27	0.43
6:D6:749:LEU:CD2	6:D6:792:LEU:HD22	2.48	0.43
8:F1:215:ASP:OD1	8:F1:218:ARG:NH2	2.52	0.43
8:F1:1392:LEU:N	8:F1:1393:PRO:CD	2.82	0.43
11:I1:1018:LYS:H	16:N1:413:VAL:N	2.17	0.43
11:I2:893:LEU:O	17:O3:236:ASP:OD1	2.32	0.43
11:I2:947:LEU:N	17:O3:260:LEU:HD22	2.30	0.43
11:I2:952:LEU:HA	16:N3:403:VAL:HG21	1.98	0.43
11:I2:1012:GLY:O	16:N3:412:ASN:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1033:PRO:HB3	20:R3:177:LEU:HB3	1.62	0.43
11:I2:1302:ARG:O	11:I2:1306:LEU:HD13	2.19	0.43
11:I3:352:ASN:OD1	11:I3:353:LEU:N	2.51	0.43
11:I3:480:ASP:OD1	11:I3:481:ALA:N	2.52	0.43
11:I3:1119:ARG:HH12	12:J3:240:GLY:HA3	1.83	0.43
11:I4:1302:ARG:O	11:I4:1306:LEU:HD13	2.19	0.43
21:S1:690:PHE:C	21:S1:692:GLU:N	2.71	0.43
21:S4:277:VAL:HB	21:S4:286:PHE:CZ	2.54	0.43
23:U1:77:LEU:HG	23:U1:125:TRP:CD2	2.54	0.43
23:U3:22:PHE:CG	23:U3:38:ILE:HD11	2.54	0.43
23:U3:314:ILE:HD12	24:V3:309:LYS:CE	2.48	0.43
24:V3:247:TYR:CE2	24:V3:260:LEU:HD13	2.54	0.43
25:W1:280:LEU:HB2	25:W1:292:ALA:O	2.19	0.43
26:X1:57:PRO:HB3	26:X1:91:TYR:OH	2.19	0.43
26:X3:215:SER:HB2	26:X3:390:TRP:CZ2	2.53	0.43
26:X4:149:GLU:HG3	26:X4:186:ARG:NE	2.34	0.43
27:Y1:303:HIS:HA	27:Y1:325:ASP:OD2	2.19	0.43
27:Y4:76:SER:HB3	27:Y4:78:ASP:OD1	2.19	0.43
28:Z3:218:SER:OG	28:Z3:219:ASP:N	2.50	0.43
28:Z3:386:LEU:HD23	28:Z3:621:GLN:HA	2.01	0.43
1:A1:1224:PRO:CB	2:A2:731:ILE:CD1	2.82	0.42
2:A2:868:GLN:CA	6:D1:584:LEU:CD2	2.96	0.42
1:A3:1190:ILE:N	3:A6:641:ALA:HB1	2.34	0.42
1:A3:1220:PRO:HB3	2:A4:646:ILE:HG23	2.01	0.42
1:A3:1233:GLN:CD	3:A6:575:LEU:HD13	2.39	0.42
1:A3:1235:ILE:O	3:A6:581:LYS:O	2.29	0.42
2:A4:90:GLN:CB	3:A6:428:GLN:HB3	1.97	0.42
2:A4:549:ALA:O	3:A6:432:VAL:CB	2.58	0.42
2:A4:692:VAL:O	3:A6:466:ALA:CA	2.67	0.42
2:A4:781:ARG:CD	6:D3:633:LYS:HZ1	2.28	0.42
2:A4:798:LYS:HB3	3:A6:314:TRP:HE1	1.84	0.42
2:A4:810:PRO:CA	3:A6:251:ILE:O	2.63	0.42
2:A4:818:LEU:HD13	3:A6:526:ILE:HG23	1.75	0.42
2:A4:975:GLU:HA	6:D3:499:LEU:CA	2.49	0.42
2:A4:976:LEU:HD13	6:D3:472:PHE:HE2	0.64	0.42
2:A4:976:LEU:HD22	6:D3:245:ARG:NH1	2.22	0.42
2:A4:985:ALA:HB3	6:D3:497:PHE:CA	2.37	0.42
3:A5:1027:HIS:CD2	11:I5:65:LYS:C	2.62	0.42
3:A5:1369:ILE:CD1	28:Z2:831:LEU:C	2.86	0.42
3:A5:1399:ARG:CB	28:Z2:912:ASP:CB	2.97	0.42
6:D4:584:LEU:HD22	6:D4:609:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:649:VAL:HG12	6:D7:660:LYS:HD2	2.01	0.42
8:F1:1093:LEU:CG	17:O2:241:SER:CA	2.80	0.42
8:F1:1261:TYR:O	17:O2:262:ASP:HB2	2.18	0.42
8:F2:1091:SER:O	17:O4:244:GLU:HB2	2.15	0.42
11:I1:928:LEU:CG	20:R1:155:GLU:CG	2.91	0.42
11:I1:931:VAL:O	15:M1:604:ASN:HB2	2.17	0.42
11:I1:1017:VAL:CG2	17:O1:260:LEU:HD21	2.49	0.42
11:I1:1024:PHE:CG	16:N1:406:HIS:CG	3.07	0.42
11:I1:1048:GLU:OE2	17:O1:288:GLU:HG3	2.18	0.42
11:I1:1059:PRO:CD	17:O1:277:GLU:N	2.71	0.42
11:I1:1302:ARG:O	11:I1:1306:LEU:HD13	2.19	0.42
11:I1:1635:HIS:CD2	11:I2:1674:HIS:CD2	3.06	0.42
11:I1:1673:VAL:HA	11:I2:1611:PHE:C	2.38	0.42
11:I2:763:ASP:OD1	11:I2:835:ARG:NE	2.48	0.42
11:I2:877:ILE:C	17:O3:253:LEU:H	2.22	0.42
11:I2:883:ALA:HA	17:O3:246:LEU:HB2	1.19	0.42
11:I2:891:LEU:N	17:O3:239:GLN:CA	2.69	0.42
11:I2:914:ASN:O	15:M3:588:MET:HB3	2.17	0.42
11:I2:925:LEU:HG	15:M3:593:ALA:CA	2.49	0.42
11:I2:1061:ASP:HB2	17:O3:278:GLU:CA	2.45	0.42
11:I3:130:LYS:NZ	11:I3:237:GLU:OE1	2.45	0.42
11:I4:1051:LYS:C	11:I4:1052:LEU:HD12	2.40	0.42
11:I4:1279:THR:N	11:I4:1280:PRO:CD	2.82	0.42
11:I5:1302:ARG:O	11:I5:1306:LEU:HD13	2.19	0.42
21:S1:81:VAL:CG1	21:S1:471:VAL:HG11	2.49	0.42
21:S1:407:LEU:HD11	21:S1:417:ALA:HB1	2.00	0.42
21:S2:277:VAL:HB	21:S2:286:PHE:CZ	2.54	0.42
21:S2:1119:LEU:O	21:S2:1121:GLU:N	2.52	0.42
21:S3:678:GLU:HA	21:S4:1145:LYS:N	2.29	0.42
21:S4:1119:LEU:O	21:S4:1121:GLU:N	2.52	0.42
22:T2:712:PHE:HZ	22:T2:751:ARG:HD3	1.84	0.42
22:T4:781:THR:HG23	22:T4:783:THR:N	2.33	0.42
22:T4:917:ASP:HB2	22:T4:918:PRO:CD	2.47	0.42
23:U2:109:LEU:HD23	23:U2:298:ILE:HG13	2.00	0.42
23:U2:293:ILE:HD11	23:U2:327:VAL:CG2	2.49	0.42
23:U3:210:MET:SD	24:V3:333:ILE:HG23	2.59	0.42
24:V1:247:TYR:CE2	24:V1:260:LEU:HD13	2.54	0.42
24:V1:400:LEU:HB3	24:V1:426:TYR:OH	2.18	0.42
24:V2:452:TRP:CD1	24:V2:475:THR:HA	2.54	0.42
24:V4:513:MET:HA	24:V4:541:ALA:HB1	2.01	0.42
25:W1:35:ILE:HB	25:W1:47:ASP:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X2:152:LEU:HD23	26:X2:152:LEU:HA	1.85	0.42
26:X3:215:SER:HB2	26:X3:390:TRP:CH2	2.54	0.42
27:Y3:303:HIS:HA	27:Y3:325:ASP:OD2	2.19	0.42
28:Z2:186:LEU:HD12	28:Z2:186:LEU:HA	1.91	0.42
28:Z2:295:ASN:ND2	28:Z2:329:TRP:O	2.52	0.42
28:Z4:53:GLY:HA3	28:Z4:71:HIS:HB3	2.02	0.42
28:Z4:180:ASP:HA	28:Z4:220:TYR:CD1	2.54	0.42
28:Z4:436:HIS:CD2	28:Z4:438:GLU:H	2.37	0.42
1:A1:199:PHE:HA	4:B1:353:LEU:HA	1.99	0.42
2:A2:1277:TRP:CD1	2:A2:1278:PRO:HD3	2.53	0.42
2:A2:1341:ALA:O	2:A2:1342:SER:HB2	2.19	0.42
1:A3:1131:ILE:C	3:A6:653:ARG:NH2	2.72	0.42
2:A4:86:ASN:N	3:A6:394:LEU:O	2.52	0.42
2:A4:635:ARG:HE	3:A6:599:ARG:HG2	1.84	0.42
2:A4:684:VAL:CG1	3:A6:403:ARG:HH21	2.25	0.42
2:A4:859:GLN:CG	3:A6:131:PRO:HB2	1.83	0.42
2:A4:871:ASN:OD1	6:D3:573:LEU:CB	2.67	0.42
2:A4:893:LEU:HG	3:A6:175:GLU:CG	2.35	0.42
2:A4:898:LEU:CD2	4:B6:343:LYS:C	2.85	0.42
2:A4:911:TYR:CE2	6:D3:555:ARG:CZ	2.97	0.42
2:A4:975:GLU:O	6:D3:501:LEU:C	2.57	0.42
2:A4:980:ARG:CB	6:D3:526:LEU:HB2	2.49	0.42
2:A4:985:ALA:HB2	6:D3:496:LEU:C	2.33	0.42
2:A4:1277:TRP:CD1	2:A4:1278:PRO:HD3	2.53	0.42
3:A5:233:THR:N	5:C2:738:ASP:HB2	2.33	0.42
3:A5:780:GLU:HG3	3:A5:822:ILE:HG23	2.01	0.42
3:A5:1369:ILE:HD11	28:Z2:832:PHE:CA	2.42	0.42
3:A6:519:LEU:N	6:D3:686:ASP:OD2	2.52	0.42
3:A6:1359:LEU:HB3	28:Z4:918:PHE:N	2.33	0.42
5:C1:732:LYS:HE3	11:I1:1225:LYS:HD2	1.90	0.42
6:D5:445:LEU:HD12	6:D5:445:LEU:C	2.39	0.42
6:D6:798:MET:HG2	22:T3:770:VAL:H	1.83	0.42
6:D7:445:LEU:HD12	6:D7:446:GLU:N	2.33	0.42
9:G2:263:MET:SD	17:O4:263:GLN:CG	3.07	0.42
11:I1:924:ILE:HD12	15:M1:595:MET:HG2	1.90	0.42
11:I1:1038:ILE:H	20:R1:169:GLY:CA	2.24	0.42
11:I2:928:LEU:HG	20:R3:155:GLU:HG3	2.00	0.42
11:I2:953:LEU:CG	15:M3:602:MET:O	2.58	0.42
11:I2:1015:TYR:OH	11:I2:1089:TYR:O	2.31	0.42
11:I2:1054:ILE:HG22	17:O3:278:GLU:CB	1.73	0.42
11:I4:1326:GLU:OE1	12:J4:255:LEU:HD22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:660:THR:OG1	11:I5:661:HIS:N	2.51	0.42
11:I5:1119:ARG:HH12	12:J5:240:GLY:HA3	1.84	0.42
17:O3:154:ARG:HD3	18:P3:324:LEU:HD11	2.00	0.42
21:S1:116:CYS:HB3	21:S1:123:LEU:HD21	2.02	0.42
21:S1:1097:LYS:NZ	21:S1:1097:LYS:HB3	2.35	0.42
21:S2:81:VAL:CG1	21:S2:471:VAL:HG11	2.49	0.42
22:T1:696:MET:HE3	22:T1:708:ALA:O	2.19	0.42
22:T1:810:THR:OG1	22:T1:868:THR:HG21	2.19	0.42
22:T2:753:TYR:OH	22:T2:856:MET:HE3	2.19	0.42
22:T3:851:LYS:HB3	22:T3:851:LYS:HE2	1.76	0.42
22:T4:698:LYS:HE2	22:T4:845:GLN:NE2	2.34	0.42
23:U1:390:THR:O	23:U1:394:ILE:HG12	2.19	0.42
23:U1:433:ALA:O	23:U1:435:PHE:N	2.44	0.42
23:U4:77:LEU:HG	23:U4:125:TRP:CD2	2.54	0.42
24:V1:203:ARG:NE	24:V1:210:GLN:HB2	2.34	0.42
26:X1:239:VAL:HB	26:X1:240:PHE:H	1.59	0.42
26:X4:239:VAL:HB	26:X4:240:PHE:H	1.59	0.42
28:Z1:92:THR:HG21	28:Z1:479:TYR:OH	2.19	0.42
28:Z1:111:GLN:HG3	28:Z1:168:TYR:CG	2.55	0.42
28:Z2:477:GLN:HA	28:Z2:478:PRO:HD2	1.87	0.42
28:Z3:436:HIS:CD2	28:Z3:438:GLU:H	2.37	0.42
28:Z3:508:LYS:O	28:Z3:512:THR:HG23	2.19	0.42
1:A1:874:VAL:C	6:D3:276:GLY:O	2.58	0.42
2:A2:288:ILE:HD11	2:A2:290:HIS:CE1	2.54	0.42
2:A2:827:ILE:HG13	2:A2:860:GLU:HB2	1.63	0.42
2:A2:865:ALA:N	6:D1:607:PRO:CD	2.48	0.42
2:A2:876:ARG:NH1	6:D1:563:GLU:CA	2.75	0.42
2:A2:973:GLU:OE1	6:D1:192:TYR:CD1	2.71	0.42
2:A2:1138:GLU:CD	3:A5:562:LEU:HD11	2.38	0.42
2:A2:1142:PHE:N	3:A5:566:GLY:HA2	2.34	0.42
1:A3:1200:ARG:HH12	3:A6:608:VAL:H	1.66	0.42
1:A3:1234:GLN:HA	3:A6:601:PHE:CE2	2.54	0.42
1:A3:1251:VAL:CA	3:A6:634:ASP:CG	2.68	0.42
1:A3:1332:ARG:HD2	6:D3:636:ASP:OD2	2.20	0.42
2:A4:288:ILE:HD11	2:A4:290:HIS:CE1	2.54	0.42
2:A4:351:ILE:HD11	2:A4:424:PRO:HB2	2.00	0.42
2:A4:618:ALA:CA	3:A6:498:ARG:HH11	1.97	0.42
2:A4:679:TYR:CZ	3:A6:433:LYS:NZ	2.67	0.42
2:A4:679:TYR:O	3:A6:433:LYS:HD3	2.18	0.42
2:A4:685:ARG:HG3	3:A6:404:LEU:CD2	2.42	0.42
2:A4:765:GLU:O	3:A6:559:PHE:CE1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:789:LEU:N	3:A6:145:THR:O	2.52	0.42
2:A4:853:VAL:HA	3:A6:169:TYR:HB2	1.85	0.42
2:A4:856:PHE:C	3:A6:129:ASN:O	2.58	0.42
2:A4:873:PRO:HG2	6:D3:568:ARG:C	2.39	0.42
3:A5:996:ASN:O	11:I5:58:ALA:C	2.58	0.42
3:A5:1026:PRO:HD3	11:I5:102:ILE:HD13	1.65	0.42
3:A5:1414:PHE:O	28:Z2:961:PHE:CB	2.68	0.42
3:A6:1394:VAL:CG2	28:Z4:911:GLU:O	2.67	0.42
3:A6:1399:ARG:NH2	28:Z4:969:MET:H	2.15	0.42
6:D3:584:LEU:HD22	6:D3:609:ILE:CD1	2.49	0.42
6:D4:649:VAL:HG12	6:D4:660:LYS:HD2	2.01	0.42
11:I1:1041:GLN:CA	15:M1:620:VAL:CG2	2.74	0.42
11:I1:1050:SER:C	17:O1:287:LEU:O	2.57	0.42
11:I2:615:ILE:HD12	11:I2:615:ILE:N	2.34	0.42
11:I2:834:SER:OG	17:O3:237:PRO:HA	2.01	0.42
11:I2:894:VAL:HB	17:O3:239:GLN:HB2	1.97	0.42
11:I2:936:LYS:CG	15:M3:609:GLY:CA	2.98	0.42
11:I2:988:GLU:O	15:M3:608:LYS:CG	2.68	0.42
11:I2:1033:PRO:CB	20:R3:177:LEU:HD12	2.47	0.42
11:I2:1050:SER:O	17:O3:290:TYR:CB	2.67	0.42
11:I2:1051:LYS:NZ	17:O3:285:LYS:CE	2.69	0.42
11:I3:1083:GLU:OE1	11:I3:1083:GLU:N	2.42	0.42
11:I3:1273:GLU:HB3	26:X1:527:VAL:N	2.34	0.42
11:I5:1326:GLU:OE1	12:J5:255:LEU:HD22	2.19	0.42
16:N2:429:GLU:OE2	16:N2:429:GLU:N	2.52	0.42
17:O2:156:ILE:HG22	17:O2:157:THR:N	2.34	0.42
21:S1:976:LEU:HG	22:T1:882:SER:HB3	2.01	0.42
21:S2:116:CYS:HB3	21:S2:123:LEU:HD21	2.02	0.42
21:S3:681:SER:OG	21:S4:1145:LYS:HA	2.19	0.42
21:S3:946:LEU:HD23	21:S3:946:LEU:HA	1.83	0.42
21:S4:81:VAL:CG1	21:S4:471:VAL:HG11	2.49	0.42
22:T3:698:LYS:HE2	22:T3:845:GLN:NE2	2.34	0.42
22:T3:822:LEU:HD21	22:T3:880:MET:HG3	2.00	0.42
23:U2:77:LEU:HG	23:U2:125:TRP:CD2	2.54	0.42
23:U2:227:ILE:C	23:U2:229:ASN:H	2.22	0.42
23:U3:23:LYS:HD2	23:U3:434:THR:HG21	2.01	0.42
23:U3:106:GLU:O	23:U3:110:MET:HG2	2.18	0.42
24:V1:394:GLN:HG2	24:V1:397:GLU:HB2	2.00	0.42
24:V2:155:SER:HB3	24:V2:159:MET:H	1.85	0.42
24:V2:168:LYS:HE2	25:W2:45:LEU:HB2	2.00	0.42
24:V2:203:ARG:NE	24:V2:210:GLN:HB2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:531:LEU:O	24:V2:532:LYS:HG2	2.19	0.42
24:V4:392:TYR:O	24:V4:394:GLN:N	2.44	0.42
25:W1:60:ASP:H	25:W1:70:LEU:CD1	2.33	0.42
26:X2:57:PRO:HB3	26:X2:91:TYR:OH	2.19	0.42
26:X2:152:LEU:CD2	26:X2:182:LEU:HB3	2.43	0.42
26:X2:269:ASP:OD1	26:X2:269:ASP:N	2.53	0.42
26:X3:149:GLU:HG3	26:X3:186:ARG:NE	2.34	0.42
27:Y3:192:ILE:HG22	27:Y3:207:LYS:HG2	2.02	0.42
27:Y4:107:SER:HA	27:Y4:135:ARG:HH21	1.83	0.42
27:Y4:303:HIS:HA	27:Y4:325:ASP:OD2	2.19	0.42
28:Z1:218:SER:OG	28:Z1:219:ASP:N	2.50	0.42
28:Z1:386:LEU:HD23	28:Z1:621:GLN:HA	2.01	0.42
28:Z1:436:HIS:CD2	28:Z1:438:GLU:H	2.37	0.42
28:Z2:386:LEU:HD23	28:Z2:621:GLN:HA	2.01	0.42
28:Z4:627:TYR:HA	28:Z4:661:GLN:OE1	2.20	0.42
1:A1:1099:GLN:CG	11:I1:1414:CYS:SG	3.06	0.42
1:A1:1201:ARG:CZ	2:A2:734:LEU:CA	2.94	0.42
2:A2:130:ILE:HG13	2:A2:566:GLY:HA2	2.01	0.42
2:A2:904:GLN:CA	6:D1:603:SER:N	2.78	0.42
2:A2:1141:GLU:O	3:A5:129:ASN:CG	2.57	0.42
1:A3:1099:GLN:CD	11:I2:1416:GLY:N	2.71	0.42
1:A3:1122:LEU:CA	3:A6:599:ARG:HH22	2.33	0.42
1:A3:1192:GLN:OE1	3:A6:649:GLY:CA	2.66	0.42
1:A3:1228:TYR:CB	3:A6:576:VAL:CG2	2.70	0.42
1:A3:1282:PHE:CB	3:A6:625:LEU:HB3	2.49	0.42
2:A4:79:ALA:C	3:A6:385:PRO:CD	2.70	0.42
2:A4:79:ALA:N	3:A6:385:PRO:HD3	2.27	0.42
2:A4:547:GLU:CG	3:A6:366:ALA:C	2.85	0.42
2:A4:690:ALA:HB1	3:A6:377:ASN:O	2.18	0.42
2:A4:692:VAL:CB	3:A6:466:ALA:O	2.63	0.42
2:A4:733:GLY:CA	3:A6:543:GLY:HA2	2.49	0.42
2:A4:754:HIS:HB2	3:A6:93:ASP:CG	2.35	0.42
2:A4:754:HIS:CG	3:A6:93:ASP:OD1	2.72	0.42
2:A4:803:GLU:O	3:A6:383:PRO:CD	2.67	0.42
2:A4:983:LEU:HD13	6:D3:497:PHE:CZ	2.53	0.42
3:A5:1017:THR:HA	3:A5:1020:ILE:HG22	2.02	0.42
3:A5:1028:VAL:HA	11:I5:67:LYS:HB2	0.78	0.42
3:A6:889:VAL:HB	3:A6:892:SER:OG	2.18	0.42
3:A6:1155:ASN:ND2	5:C6:736:ASN:H	2.17	0.42
5:C1:732:LYS:HE2	11:I1:1228:GLU:HB3	2.00	0.42
6:D2:649:VAL:O	6:D2:649:VAL:CG1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:176:SER:HB2	11:I3:95:LYS:NZ	2.09	0.42
7:E3:94:ILE:HG23	7:E3:94:ILE:O	2.19	0.42
8:F1:1136:GLN:O	17:O2:248:SER:CB	2.68	0.42
9:G1:252:LEU:HD22	17:O2:254:ARG:CD	2.31	0.42
9:G1:258:LYS:NZ	16:N2:408:MET:HE2	2.33	0.42
11:I1:72:GLU:N	11:I1:72:GLU:OE1	2.52	0.42
11:I1:921:GLU:CA	16:N1:396:ILE:HD11	2.36	0.42
11:I1:955:LYS:HZ3	17:O1:249:ARG:NH2	2.17	0.42
11:I1:1051:LYS:HA	17:O1:290:TYR:CG	2.55	0.42
11:I1:1060:PHE:HA	16:N1:431:VAL:HG21	1.33	0.42
11:I2:923:GLY:CA	15:M3:591:ASP:C	2.79	0.42
11:I2:924:ILE:CD1	15:M3:595:MET:HG2	2.43	0.42
11:I2:950:LEU:HB2	16:N3:407:ALA:N	2.34	0.42
11:I2:951:LYS:CE	16:N3:404:GLU:HG3	2.48	0.42
11:I2:1023:ASP:OD2	16:N3:405:ALA:HB1	2.20	0.42
11:I3:615:ILE:HD12	11:I3:615:ILE:N	2.35	0.42
11:I4:615:ILE:HD12	11:I4:615:ILE:N	2.35	0.42
11:I5:72:GLU:OE1	11:I5:72:GLU:N	2.52	0.42
17:O3:156:ILE:HG22	17:O3:157:THR:N	2.34	0.42
17:O4:109:PRO:CG	18:P4:318:PRO:HG2	2.48	0.42
21:S2:976:LEU:HG	22:T2:882:SER:HB3	2.01	0.42
21:S3:81:VAL:CG1	21:S3:471:VAL:HG11	2.49	0.42
23:U1:227:ILE:C	23:U1:229:ASN:H	2.22	0.42
24:V1:531:LEU:O	24:V1:532:LYS:HG2	2.19	0.42
24:V2:418:PRO:HB3	24:V2:445:ALA:HB1	2.02	0.42
24:V3:176:LEU:HA	24:V3:177:PRO:HD2	1.87	0.42
24:V4:203:ARG:NE	24:V4:210:GLN:HB2	2.34	0.42
24:V4:531:LEU:O	24:V4:532:LYS:HG2	2.19	0.42
25:W4:280:LEU:HB2	25:W4:292:ALA:O	2.19	0.42
26:X3:65:MET:HA	26:X3:66:PRO:HD3	1.79	0.42
28:Z1:627:TYR:HA	28:Z1:661:GLN:OE1	2.19	0.42
28:Z2:59:CYS:HB2	28:Z2:464:THR:OG1	2.19	0.42
28:Z2:92:THR:HG21	28:Z2:479:TYR:OH	2.19	0.42
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB2	2.20	0.42
1:A1:1052:THR:HA	6:D1:812:VAL:HG12	2.02	0.42
1:A1:1224:PRO:HB3	2:A2:731:ILE:CD1	2.48	0.42
2:A2:780:GLU:CA	6:D1:679:ILE:H	2.27	0.42
2:A2:1132:PRO:CD	3:A5:160:ILE:HA	2.49	0.42
2:A2:1141:GLU:OE2	3:A5:567:VAL:CA	2.65	0.42
1:A3:1183:LEU:HB2	3:A6:635:ARG:HG3	2.01	0.42
1:A3:1392:ARG:NH2	3:A6:231:SER:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:226:PRO:HB3	6:D3:709:ARG:HD3	1.87	0.42
2:A4:537:ALA:CB	3:A6:362:PHE:O	2.61	0.42
2:A4:670:SER:HB3	3:A6:542:LEU:HD22	2.00	0.42
2:A4:678:LEU:CD2	3:A6:431:PHE:CB	2.97	0.42
2:A4:679:TYR:CE2	3:A6:512:GLU:N	2.81	0.42
2:A4:820:LYS:HB2	3:A6:157:TRP:H	1.26	0.42
2:A4:857:LYS:N	3:A6:129:ASN:O	2.52	0.42
2:A4:875:LEU:CD1	6:D3:567:LEU:CG	2.71	0.42
3:A5:146:LYS:HA	5:C2:747:PRO:HD3	1.89	0.42
3:A5:1024:ASP:C	11:I5:68:ILE:HD12	2.40	0.42
3:A6:1411:ARG:NE	26:X4:685:GLU:O	2.52	0.42
6:D5:584:LEU:HD22	6:D5:609:ILE:CD1	2.49	0.42
7:E7:94:ILE:O	7:E7:94:ILE:HG23	2.19	0.42
11:I1:916:ALA:HB3	15:M1:586:ASP:CG	2.39	0.42
11:I1:1662:ARG:HB2	11:I2:1663:LYS:HD3	2.01	0.42
11:I2:873:ILE:O	17:O3:251:ILE:O	2.38	0.42
11:I2:956:ILE:HG23	20:R3:166:LEU:CB	2.50	0.42
11:I2:1019:LEU:HB2	16:N3:409:ALA:HA	1.36	0.42
11:I2:1047:CYS:C	17:O3:287:LEU:HD22	2.39	0.42
11:I3:1277:LEU:H	26:X1:523:LEU:H	1.68	0.42
11:I5:615:ILE:HD12	11:I5:615:ILE:N	2.35	0.42
17:O4:75:ILE:N	17:O4:76:PRO:CD	2.83	0.42
20:R4:147:LEU:O	20:R4:151:LYS:N	2.52	0.42
21:S1:178:ALA:HA	21:S1:183:SER:O	2.20	0.42
21:S1:896:ASN:O	21:S1:900:PHE:N	2.52	0.42
21:S2:348:ASN:HB2	21:S2:412:PHE:O	2.20	0.42
21:S2:407:LEU:HD11	21:S2:417:ALA:HB1	2.00	0.42
21:S3:680:PRO:CB	21:S4:1097:LYS:NZ	2.81	0.42
22:T3:862:HIS:CD2	22:T3:903:LYS:HD3	2.55	0.42
22:T4:862:HIS:CD2	22:T4:903:LYS:HD3	2.55	0.42
23:U2:82:LEU:HD23	23:U2:82:LEU:HA	1.87	0.42
24:V1:216:LEU:O	24:V1:217:LEU:HD23	2.19	0.42
24:V3:216:LEU:O	24:V3:217:LEU:HD23	2.19	0.42
24:V3:365:SER:HB3	24:V3:368:GLU:HB2	2.01	0.42
24:V4:208:TYR:CE2	24:V4:505:GLU:HG3	2.54	0.42
25:W3:63:HIS:HA	25:W3:64:PRO:HD3	1.82	0.42
25:W4:35:ILE:HB	25:W4:47:ASP:HB2	2.00	0.42
26:X1:285:VAL:O	26:X1:289:ILE:HG13	2.18	0.42
26:X2:149:GLU:HG3	26:X2:186:ARG:NE	2.34	0.42
26:X2:335:PHE:O	26:X2:339:ILE:HG13	2.19	0.42
26:X2:403:HIS:O	26:X2:405:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X4:269:ASP:OD1	26:X4:269:ASP:N	2.53	0.42
27:Y2:131:ASP:O	27:Y2:133:ILE:HG13	2.20	0.42
27:Y4:192:ILE:HG22	27:Y4:207:LYS:HG2	2.02	0.42
28:Z3:53:GLY:HA3	28:Z3:71:HIS:HB3	2.02	0.42
28:Z3:59:CYS:HB2	28:Z3:464:THR:OG1	2.19	0.42
1:A1:835:THR:CA	6:D3:302:PRO:HB2	2.44	0.42
2:A2:779:ASP:N	6:D1:678:GLY:CA	2.70	0.42
2:A2:869:ALA:HB2	6:D1:583:ILE:HG21	2.01	0.42
2:A2:871:ASN:HB2	6:D1:567:LEU:O	2.20	0.42
2:A2:976:LEU:N	6:D1:495:VAL:O	2.49	0.42
1:A3:1199:GLN:HB2	3:A6:678:LEU:HD22	2.01	0.42
1:A3:1241:ARG:HG3	3:A6:597:GLU:CD	2.40	0.42
2:A4:75:LEU:HD21	3:A6:321:ASP:CG	2.40	0.42
2:A4:225:THR:C	6:D3:709:ARG:CD	2.67	0.42
2:A4:685:ARG:HB2	3:A6:404:LEU:HD23	2.02	0.42
2:A4:687:LEU:HD23	2:A4:688:TRP:N	2.34	0.42
2:A4:703:SER:CA	3:A6:465:SER:C	2.85	0.42
2:A4:974:PRO:HB2	6:D3:231:THR:HG21	2.01	0.42
2:A4:1023:ILE:HG22	2:A4:1025:SER:N	2.34	0.42
2:A4:1341:ALA:O	2:A4:1342:SER:HB2	2.19	0.42
6:D6:649:VAL:HG12	6:D6:660:LYS:HD2	2.00	0.42
6:D7:187:ARG:NH1	11:I3:54:LYS:NZ	2.64	0.42
9:G2:255:LEU:CA	17:O4:262:ASP:OD1	2.65	0.42
11:I1:916:ALA:CB	15:M1:586:ASP:CG	2.87	0.42
11:I2:898:VAL:HG22	17:O3:237:PRO:CD	2.19	0.42
11:I2:954:GLU:CD	16:N3:402:GLY:CA	2.86	0.42
11:I2:964:SER:H	20:R3:165:SER:HB2	1.68	0.42
11:I2:976:ARG:NH1	15:M3:622:VAL:HG21	2.15	0.42
11:I2:994:ALA:HB3	17:O3:268:GLY:C	2.39	0.42
11:I2:1033:PRO:HB3	20:R3:174:ARG:HA	2.01	0.42
11:I2:1051:LYS:C	11:I2:1052:LEU:HD12	2.40	0.42
11:I2:1052:LEU:HD23	16:N3:434:LEU:CG	2.50	0.42
11:I2:1067:PHE:HD2	16:N3:428:ASP:O	1.99	0.42
11:I3:1279:THR:N	11:I3:1280:PRO:CD	2.82	0.42
11:I4:656:MET:O	11:I4:659:LYS:NZ	2.45	0.42
19:Q4:204[B]:MSE:HE2	19:Q4:211:MSE:HB2	2.00	0.42
21:S2:1003:LEU:O	21:S2:1006:GLU:HB3	2.20	0.42
21:S3:968:LYS:HE2	21:S3:968:LYS:HB3	1.65	0.42
21:S4:348:ASN:HB2	21:S4:412:PHE:O	2.20	0.42
22:T1:781:THR:HG23	22:T1:783:THR:N	2.33	0.42
24:V2:176:LEU:HA	24:V2:177:PRO:HD2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V3:153:LYS:HA	25:W3:261:SER:HB2	2.01	0.42
24:V3:208:TYR:CE2	24:V3:505:GLU:HG3	2.54	0.42
24:V4:416:ASP:HA	24:V4:443:THR:CG2	2.44	0.42
24:V4:418:PRO:HB3	24:V4:445:ALA:HB1	2.02	0.42
25:W3:60:ASP:H	25:W3:70:LEU:CD1	2.33	0.42
26:X1:215:SER:HB2	26:X1:390:TRP:CH2	2.54	0.42
26:X2:159:ILE:HD13	26:X2:176:GLU:HA	2.02	0.42
26:X3:396:ASP:OD1	26:X3:401:LYS:HE3	2.20	0.42
27:Y1:76:SER:HB3	27:Y1:78:ASP:OD1	2.19	0.42
28:Z3:92:THR:HG21	28:Z3:479:TYR:OH	2.19	0.42
28:Z3:117:LEU:HD23	28:Z3:117:LEU:HA	1.90	0.42
28:Z3:285:ASN:OD1	28:Z3:285:ASN:N	2.48	0.42
1:A1:879:LEU:HD21	1:A1:908:LEU:HD12	2.01	0.42
1:A1:1196:GLU:O	1:A1:1200:ARG:HD3	2.19	0.42
2:A2:780:GLU:CA	6:D1:674:TYR:CA	2.92	0.42
1:A3:1049:PHE:HA	6:D3:816:VAL:CG1	2.50	0.42
1:A3:1200:ARG:CB	3:A6:609:GLU:CG	2.95	0.42
1:A3:1230:TYR:CE2	3:A6:605:TYR:CB	3.03	0.42
1:A3:1279:ILE:HA	3:A6:625:LEU:HA	0.42	0.42
1:A3:1328:ARG:HD2	3:A6:126:ARG:HD2	2.02	0.42
2:A4:550:VAL:HG21	3:A6:367:ASP:C	2.40	0.42
2:A4:685:ARG:HB3	3:A6:432:VAL:HA	1.36	0.42
2:A4:689:LYS:HD2	3:A6:336:ILE:HG12	1.94	0.42
2:A4:715:GLU:HG3	3:A6:490:PHE:CD1	2.54	0.42
2:A4:752:LYS:CA	3:A6:540:GLN:N	2.64	0.42
2:A4:947:LYS:CA	4:B6:348:PRO:O	2.67	0.42
3:A5:234:LEU:HB2	5:C2:737:LYS:HB3	2.00	0.42
3:A5:994:VAL:O	11:I5:61:LYS:CB	2.68	0.42
3:A5:997:ASP:N	11:I5:61:LYS:CB	2.83	0.42
3:A6:445:THR:N	6:D3:717:LEU:O	2.52	0.42
3:A6:483:HIS:CG	6:D3:675:ARG:CD	3.01	0.42
3:A6:1017:THR:HA	3:A6:1020:ILE:HG22	2.02	0.42
6:D1:570:VAL:O	6:D1:574:VAL:HG23	2.20	0.42
6:D6:584:LEU:HD22	6:D6:609:ILE:HD11	2.00	0.42
7:E2:94:ILE:HG23	7:E2:94:ILE:O	2.19	0.42
8:F1:1091:SER:OG	17:O2:241:SER:N	2.53	0.42
8:F1:1203:TRP:CA	17:O2:251:ILE:HG22	2.45	0.42
8:F1:1267:ARG:H	17:O2:265:ASN:HB3	1.84	0.42
11:I1:934:LEU:HD12	15:M1:603:SER:H	1.84	0.42
11:I1:941:GLY:N	17:O1:260:LEU:O	2.42	0.42
11:I1:1048:GLU:C	15:M1:622:VAL:HG12	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1056:PRO:CG	17:O1:278:GLU:HG2	2.44	0.42
11:I2:884:LEU:HD21	15:M3:595:MET:CG	2.49	0.42
11:I2:888:GLU:HG2	16:N3:394:THR:H	1.31	0.42
11:I2:900:ARG:HB2	17:O3:232:LYS:CG	2.43	0.42
11:I2:949:CYS:N	17:O3:253:LEU:O	2.52	0.42
11:I2:951:LYS:HG3	17:O3:253:LEU:CD1	2.50	0.42
11:I2:1029:LEU:HB2	20:R3:171:ALA:HA	2.00	0.42
11:I2:1040:HIS:HD2	20:R3:170:LEU:HD23	1.85	0.42
11:I4:1279:THR:N	26:X3:520:GLU:OE2	2.31	0.42
19:Q1:192:GLN:HE21	19:Q1:192:GLN:HA	1.84	0.42
21:S1:277:VAL:HB	21:S1:286:PHE:CZ	2.54	0.42
21:S2:178:ALA:HA	21:S2:183:SER:O	2.20	0.42
21:S4:116:CYS:HB3	21:S4:123:LEU:HD21	2.02	0.42
23:U2:264:TYR:O	23:U2:268:SER:OG	2.34	0.42
23:U4:22:PHE:CG	23:U4:38:ILE:HD11	2.54	0.42
24:V3:155:SER:HB3	24:V3:159:MET:H	1.84	0.42
24:V3:513:MET:HA	24:V3:541:ALA:HB1	2.02	0.42
26:X2:221:GLU:HA	26:X2:224:ILE:HG13	2.00	0.42
26:X2:243:GLN:O	26:X2:247:LYS:HG3	2.19	0.42
26:X2:454:LEU:HD21	26:X2:503:VAL:HG21	2.02	0.42
26:X3:269:ASP:OD1	26:X3:269:ASP:N	2.53	0.42
26:X4:454:LEU:HD21	26:X4:503:VAL:HG21	2.02	0.42
27:Y2:303:HIS:HA	27:Y2:325:ASP:OD2	2.19	0.42
28:Z2:436:HIS:CD2	28:Z2:438:GLU:H	2.37	0.42
28:Z3:477:GLN:HA	28:Z3:478:PRO:HD2	1.87	0.42
28:Z3:627:TYR:HA	28:Z3:661:GLN:OE1	2.19	0.42
28:Z4:92:THR:HG21	28:Z4:479:TYR:OH	2.19	0.42
28:Z4:111:GLN:HG3	28:Z4:168:TYR:CG	2.55	0.42
1:A1:1221:ILE:HD11	2:A2:642:ARG:HB2	1.80	0.42
1:A1:1223:GLU:CD	2:A2:734:LEU:HD11	2.40	0.42
2:A2:1023:ILE:HG22	2:A2:1025:SER:N	2.34	0.42
2:A2:1120:ASP:O	3:A5:136:GLU:OE1	2.38	0.42
2:A2:1122:LEU:HD12	3:A5:132:ASP:HA	2.02	0.42
1:A3:879:LEU:HD21	1:A3:908:LEU:HD12	2.01	0.42
1:A3:1241:ARG:HG3	3:A6:597:GLU:OE1	2.20	0.42
1:A3:1280:GLN:HB3	3:A6:571:ARG:HD2	1.35	0.42
1:A3:1311:ARG:HD3	3:A6:711:VAL:O	2.19	0.42
2:A4:87:GLN:H	3:A6:392:LEU:HA	1.76	0.42
2:A4:715:GLU:C	3:A6:492:SER:HB3	2.40	0.42
2:A4:761:GLN:NE2	3:A6:546:ASN:C	2.70	0.42
2:A4:804:GLN:HE22	3:A6:330:LEU:H	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:879:LEU:H	6:D3:564:ASN:CB	2.32	0.42
2:A4:894:THR:N	3:A6:166:LEU:HB2	2.35	0.42
3:A5:232:LEU:CD2	5:C2:737:LYS:C	2.87	0.42
3:A5:1255:LEU:HB3	3:A5:1256:PRO:HD3	2.00	0.42
3:A6:483:HIS:CD2	6:D3:675:ARG:HD3	2.55	0.42
3:A6:1415:PHE:C	28:Z4:1001:LEU:H	2.23	0.42
7:E6:94:ILE:O	7:E6:94:ILE:HG23	2.19	0.42
8:F2:924:GLU:OE2	8:F2:988:ARG:NE	2.53	0.42
11:I1:889:THR:N	17:O1:242:ARG:NH1	2.65	0.42
11:I1:1049:LEU:H	20:R1:146:LEU:HD13	1.84	0.42
11:I1:1108:PRO:HG2	16:N1:444:SER:H	1.83	0.42
11:I1:1187:SER:H	17:O2:221:ASP:CG	2.21	0.42
11:I2:915:ALA:HB1	15:M3:585:LEU:HB2	1.27	0.42
11:I2:936:LYS:N	15:M3:609:GLY:CA	2.70	0.42
11:I2:945:LEU:HD11	17:O3:258:GLU:CG	2.16	0.42
11:I2:947:LEU:C	17:O3:256:TYR:CD2	2.68	0.42
11:I2:948:ALA:CA	17:O3:253:LEU:CA	2.95	0.42
11:I2:955:LYS:CB	16:N3:403:VAL:CG2	2.96	0.42
11:I2:955:LYS:CB	16:N3:400:LEU:CG	2.97	0.42
11:I2:980:ILE:CB	15:M3:618:GLN:HG2	2.49	0.42
11:I2:1030:ARG:H	20:R3:171:ALA:C	2.21	0.42
11:I2:1045:PHE:HB3	15:M3:619:ILE:HD13	2.02	0.42
11:I2:1054:ILE:CA	17:O3:280:GLU:C	2.86	0.42
11:I2:1055:GLU:CA	17:O3:281:ALA:HB2	2.48	0.42
11:I2:1108:PRO:HD3	16:N3:443:GLU:H	1.82	0.42
11:I2:1326:GLU:OE1	12:J2:255:LEU:HD22	2.19	0.42
11:I3:1277:LEU:HD12	26:X1:521:TRP:HE3	1.84	0.42
11:I3:1326:GLU:OE1	12:J3:255:LEU:HD22	2.19	0.42
17:O2:111:TYR:H	18:P2:325:ILE:HG12	1.82	0.42
17:O4:110:LEU:N	18:P4:318:PRO:CA	2.82	0.42
21:S1:531:ARG:O	21:S1:535:GLY:O	2.38	0.42
21:S1:1058:ILE:HG22	21:S1:1059:ASP:N	2.35	0.42
21:S2:145:PRO:HA	21:S2:146:PRO:HD2	1.97	0.42
21:S2:1078:LEU:HD21	21:S2:1097:LYS:HE3	2.01	0.42
21:S2:1097:LYS:NZ	21:S2:1097:LYS:HB3	2.34	0.42
21:S3:531:ARG:O	21:S3:535:GLY:O	2.38	0.42
21:S3:1078:LEU:CD2	21:S3:1097:LYS:HG3	2.50	0.42
21:S4:1052:LEU:C	21:S4:1055:LEU:HD23	2.41	0.42
21:S4:1058:ILE:HG22	21:S4:1059:ASP:N	2.35	0.42
21:S4:1097:LYS:NZ	21:S4:1097:LYS:HB3	2.34	0.42
23:U4:293:ILE:HD11	23:U4:327:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U4:353:ASP:O	23:U4:355:LEU:N	2.51	0.42
24:V1:168:LYS:HE2	25:W1:45:LEU:HB2	2.01	0.42
24:V3:400:LEU:HB3	24:V3:426:TYR:OH	2.18	0.42
24:V4:155:SER:HB3	24:V4:159:MET:H	1.85	0.42
24:V4:247:TYR:CE2	24:V4:260:LEU:HD13	2.54	0.42
25:W2:191:ALA:C	25:W2:193:THR:H	2.23	0.42
25:W2:222:LEU:O	25:W2:233:ILE:HA	2.20	0.42
25:W4:60:ASP:H	25:W4:70:LEU:CD1	2.33	0.42
26:X1:269:ASP:OD1	26:X1:269:ASP:N	2.52	0.42
26:X2:215:SER:HB2	26:X2:390:TRP:CH2	2.54	0.42
26:X2:285:VAL:O	26:X2:289:ILE:HG13	2.18	0.42
26:X3:57:PRO:HB3	26:X3:91:TYR:OH	2.19	0.42
26:X3:168:ARG:HD3	26:X3:170:ASN:HB3	2.02	0.42
27:Y3:189:GLU:HA	27:Y3:213:SER:O	2.20	0.42
28:Z2:180:ASP:HA	28:Z2:220:TYR:CD1	2.55	0.42
28:Z2:627:TYR:HA	28:Z2:661:GLN:OE1	2.19	0.42
28:Z3:111:GLN:HG3	28:Z3:168:TYR:CG	2.55	0.42
1:A1:1220:PRO:HB2	2:A2:731:ILE:HG13	2.01	0.42
2:A2:874:VAL:CG2	6:D1:611:LYS:HZ3	2.29	0.42
2:A2:1129:PRO:O	3:A5:141:GLY:C	2.57	0.42
2:A2:1149:THR:CA	3:A5:172:PRO:HD2	2.50	0.42
1:A3:1190:ILE:H	3:A6:618:ALA:HB2	1.85	0.42
1:A3:1227:PRO:HG3	3:A6:682:ARG:HH11	1.84	0.42
1:A3:1236:GLN:H	3:A6:581:LYS:H	1.55	0.42
1:A3:1259:CYS:HA	3:A6:624:ASP:CG	2.40	0.42
2:A4:75:LEU:HA	3:A6:322:ASP:HB2	2.02	0.42
2:A4:87:GLN:OE1	3:A6:390:SER:O	2.38	0.42
2:A4:91:LEU:HD12	3:A6:104:PRO:CG	2.48	0.42
2:A4:556:PRO:CB	3:A6:454:GLN:HB3	2.49	0.42
2:A4:691:LYS:HD2	3:A6:316:ARG:HD3	0.85	0.42
2:A4:713:ILE:CD1	3:A6:462:LEU:HD13	2.36	0.42
2:A4:1150:LEU:CG	5:C4:731:LYS:HA	2.41	0.42
3:A5:1367:THR:HG21	28:Z2:844:CYS:O	2.15	0.42
3:A6:446:LEU:CG	6:D3:721:PRO:CB	2.97	0.42
3:A6:1361:ARG:O	28:Z4:877:ILE:O	2.38	0.42
6:D2:734:PHE:CE1	6:D2:745:LEU:HD22	2.55	0.42
6:D4:570:VAL:O	6:D4:574:VAL:HG23	2.20	0.42
6:D5:734:PHE:CE1	6:D5:745:LEU:HD22	2.55	0.42
6:D6:570:VAL:O	6:D6:574:VAL:HG23	2.20	0.42
8:F1:924:GLU:OE2	8:F1:988:ARG:NE	2.53	0.42
8:F1:1091:SER:OG	17:O2:238:ALA:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1262:HIS:NE2	17:O2:259:ASP:CG	2.65	0.42
8:F1:1779:GLY:O	8:F1:1783:LEU:HG	2.20	0.42
9:G1:256:GLN:HA	16:N2:403:VAL:HG11	2.02	0.42
11:I1:881:ILE:HG12	16:N1:400:LEU:HB3	2.01	0.42
11:I1:923:GLY:C	15:M1:591:ASP:O	2.58	0.42
11:I1:925:LEU:HB3	15:M1:596:ILE:HD13	2.02	0.42
11:I1:928:LEU:CD1	20:R1:155:GLU:CG	2.97	0.42
11:I1:931:VAL:HG21	15:M1:604:ASN:CG	2.25	0.42
11:I1:1017:VAL:CG2	17:O1:260:LEU:HD22	2.49	0.42
11:I1:1038:ILE:CD1	15:M1:620:VAL:HG11	1.97	0.42
11:I1:1046:HIS:CA	17:O1:283:ALA:HB3	2.49	0.42
11:I2:842:ASN:HA	15:M3:587:GLU:OE2	2.20	0.42
11:I2:884:LEU:CD1	16:N3:400:LEU:HD21	2.50	0.42
11:I2:916:ALA:C	15:M3:585:LEU:O	2.58	0.42
11:I2:982:GLN:N	15:M3:621:ARG:HH12	2.17	0.42
11:I2:1029:LEU:HD23	20:R3:170:LEU:H	1.80	0.42
17:O3:75:ILE:N	17:O3:76:PRO:CD	2.83	0.42
20:R1:147:LEU:O	20:R1:151:LYS:N	2.52	0.42
21:S1:1039:GLU:HG2	21:S1:1039:GLU:H	1.59	0.42
21:S2:1078:LEU:CD2	21:S2:1097:LYS:HG3	2.50	0.42
21:S3:601:LEU:CB	21:S4:1156:ILE:C	2.88	0.42
21:S3:681:SER:CA	21:S4:1144:LEU:O	2.68	0.42
21:S3:1078:LEU:HD21	21:S3:1097:LYS:HE3	2.01	0.42
21:S4:531:ARG:O	21:S4:535:GLY:O	2.38	0.42
22:T2:781:THR:O	22:T2:785:LYS:HG3	2.20	0.42
22:T3:829:MET:HE2	22:T3:849:LEU:HD12	2.02	0.42
23:U1:293:ILE:HD11	23:U1:327:VAL:CG2	2.49	0.42
26:X1:243:GLN:O	26:X1:247:LYS:HG3	2.19	0.42
26:X4:396:ASP:OD1	26:X4:401:LYS:HE3	2.20	0.42
27:Y1:131:ASP:O	27:Y1:133:ILE:HG13	2.20	0.42
27:Y1:189:GLU:HA	27:Y1:213:SER:O	2.20	0.42
27:Y2:76:SER:HB3	27:Y2:78:ASP:OD1	2.19	0.42
27:Y2:189:GLU:HA	27:Y2:213:SER:O	2.20	0.42
28:Z1:59:CYS:HB2	28:Z1:464:THR:OG1	2.19	0.42
28:Z2:508:LYS:O	28:Z2:512:THR:HG23	2.19	0.42
28:Z4:177:PHE:HD1	28:Z4:183:LEU:HD22	1.84	0.42
28:Z4:508:LYS:O	28:Z4:512:THR:HG23	2.19	0.42
2:A2:867:GLU:C	6:D1:598:ILE:CG2	2.79	0.42
2:A2:982:THR:N	6:D1:497:PHE:N	2.42	0.42
2:A2:992:TYR:CD1	6:D1:238:ALA:HB2	2.55	0.42
2:A2:1125:LEU:HD23	3:A5:137:HIS:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1304:GLU:O	2:A2:1305:ALA:C	2.58	0.42
1:A3:1183:LEU:HD13	3:A6:635:ARG:CB	2.50	0.42
1:A3:1228:TYR:CG	3:A6:551:GLN:O	2.73	0.42
2:A4:235:TYR:HD1	4:B4:347:LEU:HB2	1.69	0.42
2:A4:540:GLN:CD	3:A6:357:SER:O	2.58	0.42
2:A4:611:ILE:HG22	3:A6:508:LEU:CA	2.32	0.42
2:A4:671:SER:O	3:A6:100:SER:HB2	1.98	0.42
2:A4:679:TYR:CD1	3:A6:107:SER:OG	2.73	0.42
2:A4:689:LYS:O	3:A6:330:LEU:CD1	2.68	0.42
2:A4:705:ILE:HD11	3:A6:481:ARG:HG3	2.00	0.42
2:A4:754:HIS:HA	3:A6:543:GLY:O	2.17	0.42
2:A4:778:PHE:CE2	3:A6:524:ARG:NH1	2.88	0.42
3:A5:234:LEU:H	5:C2:737:LYS:CB	2.15	0.42
3:A5:1026:PRO:HG2	11:I5:73:TYR:HD1	1.60	0.42
3:A6:446:LEU:CG	6:D3:730:ARG:CG	2.89	0.42
3:A6:518:GLU:CB	6:D3:686:ASP:C	2.88	0.42
3:A6:520:GLU:OE1	6:D3:681:ALA:CB	2.68	0.42
3:A6:1398:LYS:CB	28:Z4:920:SER:CB	2.94	0.42
6:D1:734:PHE:CE1	6:D1:745:LEU:HD22	2.55	0.42
6:D3:734:PHE:CE1	6:D3:745:LEU:HD22	2.55	0.42
6:D6:584:LEU:HD22	6:D6:609:ILE:CD1	2.49	0.42
6:D6:734:PHE:CE1	6:D6:745:LEU:HD22	2.55	0.42
8:F1:1204:PRO:HD2	17:O2:255:GLY:H	1.75	0.42
9:G1:257:THR:HG21	16:N2:400:LEU:HB3	2.02	0.42
11:I1:966:TRP:HA	20:R1:154:ALA:HB2	2.02	0.42
11:I1:981:VAL:HG23	20:R1:147:LEU:HD21	1.14	0.42
11:I1:1021:ILE:O	16:N1:406:HIS:ND1	2.53	0.42
11:I1:1043:LEU:N	20:R1:170:LEU:HD11	2.35	0.42
11:I1:1371:LEU:O	11:I1:1371:LEU:HD23	2.20	0.42
11:I1:1665:LEU:CA	11:I2:1668:HIS:N	2.82	0.42
11:I1:1666:THR:HG22	11:I2:1602:PHE:HD1	1.77	0.42
11:I2:945:LEU:HD21	17:O3:258:GLU:HB3	1.11	0.42
11:I2:951:LYS:NZ	16:N3:402:GLY:C	2.67	0.42
11:I2:1015:TYR:HA	16:N3:413:VAL:HA	1.38	0.42
11:I2:1045:PHE:HB2	15:M3:619:ILE:HD12	2.00	0.42
11:I4:72:GLU:N	11:I4:72:GLU:OE1	2.52	0.42
11:I5:1277:LEU:HD23	26:X2:517:ASP:CB	2.47	0.42
21:S1:321:THR:HG22	21:S1:338:VAL:HG11	2.02	0.42
21:S1:1078:LEU:CD2	21:S1:1097:LYS:HG3	2.50	0.42
21:S3:178:ALA:HA	21:S3:183:SER:O	2.19	0.42
21:S3:445:ASN:OD1	21:S3:446:ALA:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S3:896:ASN:O	21:S3:900:PHE:N	2.52	0.42
23:U3:293:ILE:HD11	23:U3:327:VAL:CG2	2.49	0.42
23:U4:359:ILE:HD13	23:U4:389:VAL:HG13	2.02	0.42
24:V1:208:TYR:CE2	24:V1:505:GLU:HG3	2.54	0.42
24:V1:365:SER:HB3	24:V1:368:GLU:HB2	2.01	0.42
24:V3:452:TRP:CD1	24:V3:475:THR:HA	2.54	0.42
24:V4:216:LEU:O	24:V4:217:LEU:HD23	2.19	0.42
25:W3:191:ALA:C	25:W3:193:THR:H	2.23	0.42
26:X1:403:HIS:O	26:X1:405:ILE:HG23	2.20	0.42
27:Y4:189:GLU:HA	27:Y4:213:SER:O	2.20	0.42
28:Z1:53:GLY:HA3	28:Z1:71:HIS:HB3	2.02	0.42
28:Z1:180:ASP:HA	28:Z1:220:TYR:CD1	2.55	0.42
28:Z3:177:PHE:HD1	28:Z3:183:LEU:HD22	1.84	0.42
1:A1:1242:THR:HG22	1:A1:1245:ASP:H	1.85	0.41
2:A2:825:ARG:CZ	6:D1:633:LYS:NZ	2.81	0.41
2:A2:1349:ALA:O	2:A2:1350:VAL:HG12	2.20	0.41
1:A3:1153:LEU:HD11	3:A6:592:ASP:OD1	2.19	0.41
1:A3:1187:ASN:N	3:A6:642:ARG:HB2	2.34	0.41
1:A3:1201:ARG:NE	3:A6:549:ALA:H	2.18	0.41
1:A3:1230:TYR:CB	2:A4:726:ALA:HA	2.49	0.41
1:A3:1258:VAL:CA	3:A6:621:GLN:C	2.73	0.41
2:A4:83:GLN:O	3:A6:393:HIS:ND1	2.53	0.41
2:A4:88:THR:HG23	3:A6:102:CYS:O	2.19	0.41
2:A4:130:ILE:HG13	2:A4:566:GLY:HA2	2.01	0.41
2:A4:612:ALA:HB1	3:A6:509:LYS:HA	1.52	0.41
2:A4:892:SER:O	3:A6:155:TYR:CZ	2.72	0.41
3:A5:999:SER:C	11:I5:62:GLU:HB2	2.41	0.41
11:I1:955:LYS:HD2	17:O1:249:ARG:NH2	2.25	0.41
11:I1:1326:GLU:OE1	12:J1:255:LEU:HD22	2.19	0.41
11:I1:1668:HIS:O	11:I2:1668:HIS:CB	2.68	0.41
11:I2:947:LEU:N	17:O3:256:TYR:CD2	2.88	0.41
11:I2:1103:LEU:HD11	20:R3:175:GLN:HG3	2.02	0.41
11:I3:1371:LEU:O	11:I3:1371:LEU:HD23	2.20	0.41
11:I4:659:LYS:HE2	11:I4:664:LEU:HD21	2.02	0.41
11:I5:1370:VAL:CG2	12:J5:259:THR:HG21	2.41	0.41
19:Q3:192:GLN:HE21	19:Q3:192:GLN:HA	1.84	0.41
21:S1:445:ASN:OD1	21:S1:446:ALA:N	2.53	0.41
21:S1:660:LEU:HA	21:S2:1102:VAL:HG23	1.94	0.41
21:S1:997:GLU:HA	21:S1:997:GLU:OE2	2.20	0.41
21:S2:445:ASN:OD1	21:S2:446:ALA:N	2.53	0.41
22:T1:862:HIS:CD2	22:T1:903:LYS:HD3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T2:810:THR:OG1	22:T2:868:THR:HG21	2.19	0.41
22:T3:712:PHE:HZ	22:T3:751:ARG:HD3	1.84	0.41
24:V1:162:THR:HG22	24:V1:163:LYS:N	2.35	0.41
25:W1:222:LEU:O	25:W1:233:ILE:HA	2.20	0.41
25:W3:217:LEU:HD13	25:W3:218:LEU:N	2.35	0.41
25:W4:63:HIS:HD2	25:W4:65:LYS:H	1.68	0.41
26:X1:78:ASN:HD21	26:X1:95:ILE:HG13	1.85	0.41
26:X1:159:ILE:HD13	26:X1:176:GLU:HA	2.01	0.41
26:X2:396:ASP:OD1	26:X2:401:LYS:HE3	2.20	0.41
26:X4:159:ILE:HD13	26:X4:176:GLU:HA	2.02	0.41
26:X4:215:SER:HB2	26:X4:390:TRP:CH2	2.54	0.41
26:X4:220:ASP:OD2	26:X4:222:GLU:HB3	2.20	0.41
27:Y1:192:ILE:HG22	27:Y1:207:LYS:HG2	2.02	0.41
27:Y2:16:VAL:HG12	27:Y2:63:TRP:CD1	2.55	0.41
1:A1:780:GLU:HG3	1:A1:822:ILE:HG23	2.01	0.41
1:A1:874:VAL:CG2	6:D3:272:VAL:HG11	2.21	0.41
1:A1:1200:ARG:CB	2:A2:727:ASN:CA	2.96	0.41
2:A2:781:ARG:CG	6:D1:673:ARG:CG	2.98	0.41
2:A2:865:ALA:O	6:D1:598:ILE:HD11	2.19	0.41
2:A2:973:GLU:CG	6:D1:192:TYR:CD1	3.02	0.41
2:A2:1131:ILE:N	3:A5:140:ALA:CB	2.81	0.41
2:A2:1157:TYR:CE2	3:A5:167:TRP:CG	3.08	0.41
1:A3:1198:GLU:HB2	3:A6:678:LEU:C	2.39	0.41
1:A3:1227:PRO:HB2	3:A6:551:GLN:HB2	2.01	0.41
1:A3:1236:GLN:CD	3:A6:578:ILE:HG12	2.38	0.41
2:A4:80:LYS:HG2	3:A6:323:THR:CB	2.50	0.41
2:A4:88:THR:N	3:A6:392:LEU:CA	2.73	0.41
2:A4:616:ALA:HB2	3:A6:109:ASP:OD2	2.13	0.41
2:A4:643:ALA:CA	3:A6:501:VAL:O	2.68	0.41
2:A4:646:ILE:CB	3:A6:501:VAL:O	2.68	0.41
2:A4:671:SER:CA	3:A6:100:SER:HB3	2.44	0.41
2:A4:678:LEU:HD12	3:A6:103:ARG:HB2	1.36	0.41
2:A4:711:VAL:CA	3:A6:462:LEU:CD2	2.93	0.41
2:A4:727:ASN:HB2	3:A6:548:LEU:HD11	1.96	0.41
2:A4:780:GLU:OE2	6:D3:679:ILE:HG21	2.20	0.41
2:A4:885:LEU:HD13	3:A6:173:ASN:HA	1.20	0.41
2:A4:886:PHE:N	3:A6:174:PRO:C	2.72	0.41
2:A4:908:LEU:HD21	6:D3:601:PHE:CA	2.48	0.41
2:A4:965:LYS:CE	6:D3:196:ILE:CA	2.95	0.41
2:A4:1304:GLU:O	2:A4:1305:ALA:C	2.58	0.41
6:D2:570:VAL:O	6:D2:574:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:584:LEU:HD22	6:D7:609:ILE:HD11	2.01	0.41
8:F2:1776:THR:O	8:F2:1776:THR:HG23	2.21	0.41
11:I1:615:ILE:HD12	11:I1:615:ILE:N	2.35	0.41
11:I1:842:ASN:CA	15:M1:587:GLU:CG	2.82	0.41
11:I1:880:MET:HG2	17:O1:247:TRP:CD2	2.54	0.41
11:I1:951:LYS:HD2	16:N1:400:LEU:C	2.36	0.41
11:I1:1061:ASP:HB3	17:O1:277:GLU:CD	2.27	0.41
11:I2:891:LEU:HD12	16:N3:390:GLU:HA	2.01	0.41
11:I2:947:LEU:CD2	16:N3:411:GLN:CG	2.24	0.41
11:I2:997:SER:HG	16:N3:427:VAL:CG2	2.09	0.41
11:I2:1037:THR:HG22	20:R3:173:LEU:CD2	2.33	0.41
11:I2:1371:LEU:O	11:I2:1371:LEU:HD23	2.20	0.41
11:I3:1271:GLU:N	26:X1:529:TRP:CA	2.82	0.41
11:I5:1276:GLN:NE2	26:X2:522:MET:C	2.61	0.41
16:N4:368:ASN:OD1	17:O4:210:ARG:NH2	2.52	0.41
17:O1:75:ILE:N	17:O1:76:PRO:CD	2.83	0.41
21:S1:681:SER:N	21:S2:1122:VAL:CG1	2.78	0.41
21:S1:1003:LEU:O	21:S1:1006:GLU:HB3	2.20	0.41
21:S1:1070:LYS:HZ3	21:S1:1121:GLU:HB3	1.84	0.41
21:S2:965:ALA:HB2	21:S2:1021:SER:HB2	2.02	0.41
21:S2:1037:CYS:HB3	21:S2:1039:GLU:CG	2.47	0.41
21:S2:1052:LEU:C	21:S2:1055:LEU:HD23	2.41	0.41
21:S3:680:PRO:O	21:S3:681:SER:C	2.56	0.41
21:S3:1055:LEU:N	21:S3:1055:LEU:HD22	2.36	0.41
21:S3:1097:LYS:NZ	21:S3:1097:LYS:HB3	2.34	0.41
22:T2:822:LEU:HD21	22:T2:880:MET:HG3	2.00	0.41
22:T2:862:HIS:CD2	22:T2:903:LYS:HD3	2.55	0.41
23:U3:86:ASN:C	23:U3:88:ASP:H	2.23	0.41
23:U4:104:LEU:HG	23:U4:224:ASP:HB3	2.02	0.41
24:V3:345:SER:HB3	24:V3:371:PHE:HE2	1.84	0.41
24:V3:392:TYR:O	24:V3:394:GLN:N	2.44	0.41
24:V3:531:LEU:O	24:V3:532:LYS:HG2	2.19	0.41
25:W1:223:ALA:HB2	25:W1:262:TRP:CZ2	2.55	0.41
25:W2:63:HIS:HD2	25:W2:65:LYS:H	1.68	0.41
25:W4:223:ALA:HB2	25:W4:262:TRP:CZ2	2.55	0.41
26:X3:51:MET:HB3	27:Y3:346:THR:C	2.41	0.41
27:Y2:221:ALA:HA	27:Y2:222:PRO:HD3	1.95	0.41
28:Z2:111:GLN:HG3	28:Z2:168:TYR:CG	2.55	0.41
2:A2:867:GLU:HG3	6:D1:605:THR:OG1	2.21	0.41
2:A2:879:LEU:HD12	6:D1:567:LEU:HG	2.02	0.41
2:A2:980:ARG:N	6:D1:473:GLU:CD	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1196:GLU:CG	3:A6:611:ILE:H	2.30	0.41
1:A3:1261:TYR:CE1	3:A6:621:GLN:HB2	2.05	0.41
1:A3:1279:ILE:O	3:A6:625:LEU:CA	2.68	0.41
2:A4:90:GLN:CG	3:A6:427:MET:CG	2.99	0.41
2:A4:674:ASP:CA	3:A6:97:ASP:OD1	2.69	0.41
2:A4:689:LYS:HB2	3:A6:378:ILE:CD1	2.27	0.41
2:A4:727:ASN:CG	3:A6:605:TYR:HD1	2.20	0.41
2:A4:734:LEU:HD23	3:A6:548:LEU:N	2.36	0.41
2:A4:781:ARG:NE	6:D3:633:LYS:CE	2.72	0.41
2:A4:800:LEU:HD23	3:A6:317:GLY:HA3	2.01	0.41
2:A4:882:SER:OG	3:A6:133:LYS:HD3	2.20	0.41
2:A4:947:LYS:HD3	3:A6:235:TYR:CZ	2.52	0.41
2:A4:1054:SER:CB	6:D4:762:ARG:CZ	2.94	0.41
2:A4:1155:ASN:OD1	5:C4:735:ILE:HA	2.21	0.41
3:A5:234:LEU:CB	5:C2:737:LYS:CB	2.99	0.41
3:A5:1408:GLU:HB2	28:Z2:917:ASP:HA	2.02	0.41
3:A6:446:LEU:CD1	6:D3:721:PRO:HB3	2.34	0.41
3:A6:780:GLU:HG3	3:A6:822:ILE:HG23	2.01	0.41
6:D2:472:PHE:O	6:D2:476:VAL:HG23	2.21	0.41
6:D2:649:VAL:HG12	6:D2:660:LYS:HD2	2.01	0.41
6:D3:570:VAL:O	6:D3:574:VAL:HG23	2.20	0.41
9:G1:253:SER:OG	15:M2:601:ASP:OD1	2.39	0.41
11:I1:535:ASP:OD1	11:I1:536:GLU:N	2.53	0.41
11:I1:850:ILE:CG2	15:M1:594:LYS:CG	2.96	0.41
11:I1:853:ILE:HD12	15:M1:598:GLU:OE1	2.20	0.41
11:I1:914:ASN:N	15:M1:587:GLU:HB3	2.35	0.41
11:I1:916:ALA:HA	16:N1:385:MET:SD	2.59	0.41
11:I1:937:TYR:C	17:O1:258:GLU:HA	2.39	0.41
11:I1:1033:PRO:HB2	20:R1:177:LEU:HD12	1.20	0.41
11:I2:978:LYS:CE	20:R3:153:GLN:C	2.85	0.41
11:I3:659:LYS:HE2	11:I3:664:LEU:HD21	2.02	0.41
11:I5:535:ASP:OD1	11:I5:536:GLU:N	2.53	0.41
11:I5:1371:LEU:O	11:I5:1371:LEU:HD23	2.20	0.41
16:N1:368:ASN:OD1	17:O1:210:ARG:NH2	2.52	0.41
21:S2:934:HIS:C	21:S2:934:HIS:CD2	2.94	0.41
21:S3:1052:LEU:C	21:S3:1055:LEU:HD23	2.41	0.41
21:S4:1013:LEU:HD12	21:S4:1013:LEU:C	2.41	0.41
23:U1:86:ASN:C	23:U1:88:ASP:H	2.23	0.41
24:V3:162:THR:HG22	24:V3:163:LYS:N	2.35	0.41
24:V4:345:SER:HB3	24:V4:371:PHE:HE2	1.84	0.41
24:V4:440:ARG:HB3	25:W4:285:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W4:78:LYS:HA	25:W4:96:ALA:HB2	2.03	0.41
26:X1:149:GLU:HG3	26:X1:186:ARG:NE	2.34	0.41
26:X1:454:LEU:HD21	26:X1:503:VAL:HG21	2.02	0.41
26:X2:480:GLU:O	26:X2:483:PRO:HD2	2.21	0.41
26:X3:78:ASN:HD21	26:X3:95:ILE:HG13	1.85	0.41
26:X4:403:HIS:O	26:X4:405:ILE:HG23	2.20	0.41
28:Z1:287:LEU:O	28:Z1:300:MET:HA	2.20	0.41
28:Z3:287:LEU:O	28:Z3:300:MET:HA	2.20	0.41
28:Z4:153:GLN:OE1	28:Z4:193:HIS:HA	2.20	0.41
28:Z4:287:LEU:O	28:Z4:300:MET:HA	2.20	0.41
2:A2:857:LYS:O	6:D1:606:LYS:HD2	2.20	0.41
2:A2:909:LYS:HB2	6:D1:555:ARG:HB3	1.71	0.41
2:A2:971:ALA:O	6:D1:203:PRO:HB2	2.20	0.41
1:A3:1231:VAL:HG12	3:A6:576:VAL:HB	1.47	0.41
1:A3:1231:VAL:HG23	3:A6:613:ALA:HA	1.87	0.41
2:A4:80:LYS:CE	3:A6:323:THR:HB	2.49	0.41
2:A4:649:GLY:HA2	3:A6:505:ALA:HB2	2.01	0.41
2:A4:681:THR:HG22	3:A6:431:PHE:O	2.19	0.41
2:A4:691:LYS:HE3	3:A6:332:ASN:CA	2.46	0.41
2:A4:731:ILE:CG2	3:A6:95:TYR:CB	2.91	0.41
2:A4:757:LEU:N	3:A6:541:PRO:O	2.52	0.41
2:A4:795:GLN:CB	3:A6:249:SER:OG	2.68	0.41
2:A4:824:ASN:CG	3:A6:167:TRP:CZ3	2.93	0.41
2:A4:891:GLY:CA	3:A6:231:SER:OG	2.67	0.41
2:A4:983:LEU:HG	6:D3:528:PHE:HE1	0.65	0.41
3:A5:159:SER:N	5:C2:742:ASP:O	2.54	0.41
3:A5:773:PHE:CZ	3:A5:818:LEU:HD12	2.48	0.41
3:A5:996:ASN:C	11:I5:58:ALA:C	2.62	0.41
3:A6:442:ARG:NH1	6:D3:695:LEU:HD11	2.24	0.41
6:D1:190:TYR:OH	6:D1:600:LYS:HE2	2.21	0.41
6:D2:245:ARG:HG3	6:D2:503:LEU:HD21	2.03	0.41
6:D4:190:TYR:OH	6:D4:600:LYS:HE2	2.21	0.41
8:F2:215:ASP:OD1	8:F2:218:ARG:NH2	2.52	0.41
9:G1:263:MET:SD	16:N2:407:ALA:CB	3.03	0.41
9:G2:256:GLN:NE2	17:O4:263:GLN:HB2	2.35	0.41
11:I1:840:LEU:HD21	17:O1:244:GLU:HA	0.89	0.41
11:I1:954:GLU:CB	16:N1:399:HIS:O	2.65	0.41
11:I1:990:GLU:N	15:M1:614:ASP:OD1	2.52	0.41
11:I1:1021:ILE:C	16:N1:406:HIS:ND1	2.71	0.41
11:I1:1047:CYS:HA	15:M1:619:ILE:HG23	1.01	0.41
11:I1:1610:VAL:HG11	11:I2:1669:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:841:PHE:O	15:M3:587:GLU:HG3	2.20	0.41
11:I2:990:GLU:OE1	15:M3:611:LYS:CD	2.61	0.41
11:I2:1037:THR:HG21	20:R3:170:LEU:N	2.35	0.41
11:I2:1067:PHE:CD1	16:N3:429:GLU:C	2.93	0.41
11:I2:1114:VAL:HG21	16:N3:436:ALA:H	1.84	0.41
11:I2:1608:SER:O	12:J1:299:GLY:HA2	2.20	0.41
11:I3:1051:LYS:C	11:I3:1052:LEU:HD12	2.40	0.41
11:I5:1051:LYS:C	11:I5:1052:LEU:HD12	2.40	0.41
15:M3:614:ASP:HB2	15:M3:615:PRO:HD2	2.03	0.41
17:O2:75:ILE:N	17:O2:76:PRO:CD	2.83	0.41
21:S1:681:SER:HA	21:S2:1122:VAL:CB	2.39	0.41
21:S2:321:THR:HG22	21:S2:338:VAL:HG11	2.02	0.41
21:S2:997:GLU:O	21:S2:1000:ARG:HB2	2.21	0.41
21:S2:1055:LEU:N	21:S2:1055:LEU:HD22	2.35	0.41
21:S3:348:ASN:HB2	21:S3:412:PHE:O	2.20	0.41
21:S3:980:ALA:HB2	22:T3:897:LEU:HB3	2.02	0.41
21:S3:1124:ASP:OD1	21:S3:1124:ASP:C	2.58	0.41
21:S4:1124:ASP:OD1	21:S4:1124:ASP:C	2.58	0.41
22:T1:675:ILE:HD13	22:T1:675:ILE:HA	1.87	0.41
22:T1:712:PHE:HZ	22:T1:751:ARG:HD3	1.84	0.41
22:T1:781:THR:O	22:T1:785:LYS:HG3	2.20	0.41
22:T2:696:MET:HE3	22:T2:708:ALA:O	2.20	0.41
22:T4:810:THR:OG1	22:T4:868:THR:HG21	2.19	0.41
23:U1:382:LYS:HA	23:U1:383:PRO:HD3	1.77	0.41
23:U2:343:ILE:HD13	23:U2:344:ARG:H	1.85	0.41
23:U3:104:LEU:HG	23:U3:224:ASP:HB3	2.02	0.41
24:V1:452:TRP:CD1	24:V1:475:THR:HA	2.54	0.41
24:V4:373:LEU:HB3	24:V4:376:LEU:HD12	2.02	0.41
24:V4:452:TRP:CD1	24:V4:475:THR:HA	2.54	0.41
25:W3:222:LEU:O	25:W3:233:ILE:HA	2.20	0.41
26:X2:95:ILE:HA	26:X2:96:PRO:HD3	1.90	0.41
26:X3:403:HIS:O	26:X3:405:ILE:HG23	2.20	0.41
27:Y4:16:VAL:HG12	27:Y4:63:TRP:CD1	2.55	0.41
27:Y4:131:ASP:O	27:Y4:133:ILE:HG13	2.20	0.41
28:Z2:153:GLN:OE1	28:Z2:193:HIS:HA	2.20	0.41
28:Z2:167:PHE:O	28:Z2:174:SER:HB2	2.21	0.41
28:Z3:180:ASP:HA	28:Z3:220:TYR:CD1	2.55	0.41
1:A1:834:GLU:CA	6:D3:302:PRO:HB3	2.49	0.41
2:A2:968:SER:HG	6:D1:195:LYS:C	2.20	0.41
2:A2:974:PRO:CA	6:D1:499:LEU:HG	2.50	0.41
2:A2:1136:LYS:HE2	3:A5:135:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:1155:ASN:OD1	5:C2:735:ILE:HA	2.20	0.41
2:A2:1305:ALA:CB	2:A2:1306:PRO:HD3	2.37	0.41
1:A3:780:GLU:HG3	1:A3:822:ILE:HG23	2.02	0.41
1:A3:1201:ARG:NE	3:A6:546:ASN:O	2.20	0.41
1:A3:1235:ILE:HG23	3:A6:637:THR:CG2	2.50	0.41
1:A3:1238:ILE:O	3:A6:585:ASN:HB2	2.19	0.41
2:A4:76:PRO:N	3:A6:323:THR:HG23	2.20	0.41
2:A4:520:GLU:OE1	2:A4:521:ASN:ND2	2.50	0.41
2:A4:540:GLN:HE22	3:A6:358:CYS:C	2.24	0.41
2:A4:705:ILE:CG2	3:A6:480:VAL:CB	2.97	0.41
2:A4:779:ASP:O	6:D3:679:ILE:CG1	2.63	0.41
2:A4:900:THR:CA	3:A6:137:HIS:CE1	3.04	0.41
2:A4:969:ASP:C	6:D3:192:TYR:CZ	2.88	0.41
6:D7:472:PHE:O	6:D7:476:VAL:HG23	2.21	0.41
6:D7:734:PHE:CE1	6:D7:745:LEU:HD22	2.55	0.41
8:F1:1836:GLU:O	8:F1:1839:VAL:HG12	2.20	0.41
8:F2:1779:GLY:O	8:F2:1783:LEU:HG	2.20	0.41
11:I1:884:LEU:HB2	17:O1:246:LEU:HD21	1.95	0.41
11:I1:921:GLU:OE2	16:N1:392:THR:C	2.47	0.41
11:I1:931:VAL:HG13	15:M1:604:ASN:CG	2.41	0.41
11:I1:934:LEU:CD1	15:M1:599:ILE:HA	2.50	0.41
11:I1:1035:GLN:HG2	15:M1:624:ASN:O	2.21	0.41
11:I1:1070:LEU:CA	16:N1:429:GLU:CG	2.81	0.41
11:I1:1603:ARG:HH22	11:I2:1662:ARG:HD2	1.84	0.41
11:I2:884:LEU:HD12	16:N3:400:LEU:HD21	2.01	0.41
11:I2:898:VAL:HG23	17:O3:237:PRO:N	2.21	0.41
11:I2:952:LEU:O	15:M3:599:ILE:CG2	2.68	0.41
11:I2:963:LEU:HB3	20:R3:166:LEU:O	2.21	0.41
11:I2:1103:LEU:HD13	20:R3:174:ARG:CB	2.35	0.41
12:J1:247:ASP:O	12:J1:251:TYR:N	2.51	0.41
16:N2:308:ILE:O	16:N2:312:ARG:N	2.53	0.41
21:S1:408:THR:HG23	21:S1:410:PRO:HD3	2.03	0.41
21:S1:680:PRO:CB	21:S2:1071:LEU:CA	2.79	0.41
21:S1:968:LYS:HB3	21:S1:968:LYS:HE2	1.65	0.41
21:S2:408:THR:HG23	21:S2:410:PRO:HD3	2.03	0.41
21:S3:277:VAL:HB	21:S3:286:PHE:CZ	2.54	0.41
21:S3:678:GLU:CB	21:S4:1142:PHE:H	2.20	0.41
21:S3:976:LEU:HG	22:T3:882:SER:HB3	2.01	0.41
21:S3:997:GLU:OE2	21:S3:997:GLU:HA	2.20	0.41
21:S4:980:ALA:HB2	22:T4:897:LEU:HB3	2.03	0.41
21:S4:1078:LEU:CD2	21:S4:1097:LYS:HG3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1127:GLN:C	21:S4:1129:ASP:N	2.74	0.41
23:U4:86:ASN:C	23:U4:88:ASP:H	2.23	0.41
23:U4:341:HIS:HA	23:U4:342:PRO:HD3	1.89	0.41
24:V1:153:LYS:HA	25:W1:261:SER:HB2	2.01	0.41
24:V3:373:LEU:HB3	24:V3:376:LEU:HD12	2.02	0.41
24:V3:416:ASP:HA	24:V3:443:THR:CG2	2.44	0.41
25:W3:63:HIS:HD2	25:W3:65:LYS:H	1.68	0.41
26:X1:152:LEU:HD23	26:X1:152:LEU:HA	1.85	0.41
26:X2:78:ASN:HD21	26:X2:95:ILE:HG13	1.85	0.41
26:X3:159:ILE:HD13	26:X3:176:GLU:HA	2.02	0.41
26:X4:51:MET:HB3	27:Y4:346:THR:C	2.41	0.41
26:X4:141:ASN:C	26:X4:145:ASN:HD22	2.24	0.41
26:X4:352:THR:OG1	26:X4:355:GLU:HG3	2.21	0.41
27:Y4:144:ASP:C	27:Y4:146:ARG:H	2.24	0.41
28:Z1:291:LEU:HA	28:Z1:292:PRO:HD3	1.76	0.41
1:A3:1254:LEU:HD23	3:A6:634:ASP:HA	2.01	0.41
1:A3:1271:ILE:N	3:A6:553:ASP:C	2.66	0.41
1:A3:1328:ARG:HD3	3:A6:127:HIS:C	2.40	0.41
2:A4:85:VAL:HG22	3:A6:405:PHE:HD1	1.83	0.41
2:A4:669:LEU:CA	3:A6:542:LEU:CG	2.99	0.41
2:A4:715:GLU:CA	3:A6:514:GLY:C	2.70	0.41
2:A4:782:VAL:HA	3:A6:524:ARG:HD3	1.29	0.41
2:A4:793:SER:OG	3:A6:188:ALA:HA	2.20	0.41
2:A4:806:PHE:HB3	3:A6:470:ARG:CB	2.48	0.41
2:A4:947:LYS:H	4:B6:352:ALA:H	1.69	0.41
2:A4:976:LEU:HD11	6:D3:245:ARG:HD3	2.03	0.41
2:A4:1151:THR:HA	5:C4:733:LEU:CG	2.42	0.41
3:A5:172:PRO:HD3	5:C2:730:HIS:NE2	2.31	0.41
3:A5:906:ILE:CG2	3:A5:965:LYS:HG2	2.51	0.41
3:A5:1091:VAL:HG23	11:I5:37:GLU:HA	1.53	0.41
3:A6:1413:SER:C	28:Z4:994:ILE:O	2.59	0.41
6:D2:190:TYR:OH	6:D2:600:LYS:HE2	2.21	0.41
6:D2:647:SER:HB3	6:D2:648:PRO:HD3	2.03	0.41
6:D3:647:SER:HB3	6:D3:648:PRO:HD3	2.03	0.41
6:D6:245:ARG:HG3	6:D6:503:LEU:HD21	2.03	0.41
8:F1:1544:ALA:N	8:F1:1545:PRO:CD	2.83	0.41
11:I1:659:LYS:HE2	11:I1:664:LEU:HD21	2.02	0.41
11:I1:842:ASN:HA	15:M1:587:GLU:HG2	1.94	0.41
11:I1:877:ILE:HG13	17:O1:251:ILE:HA	1.20	0.41
11:I1:931:VAL:CG1	15:M1:604:ASN:CG	2.83	0.41
11:I1:992:ILE:CG2	15:M1:607:SER:CB	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1107:SER:O	16:N1:439:ARG:CG	2.67	0.41
11:I2:797:LEU:HD21	17:O3:245:GLU:N	2.34	0.41
11:I2:884:LEU:CD2	15:M3:599:ILE:HD11	2.49	0.41
11:I2:923:GLY:HA3	15:M3:591:ASP:O	2.16	0.41
11:I2:956:ILE:HG23	20:R3:166:LEU:HB2	2.02	0.41
11:I3:1182:GLN:NE2	12:J3:245:GLU:CB	2.80	0.41
21:S1:348:ASN:HB2	21:S1:412:PHE:O	2.20	0.41
21:S1:680:PRO:N	21:S2:1127:GLN:CG	2.79	0.41
21:S1:965:ALA:HB2	21:S1:1021:SER:HB2	2.02	0.41
21:S1:1052:LEU:C	21:S1:1055:LEU:HD23	2.41	0.41
21:S2:896:ASN:O	21:S2:900:PHE:N	2.52	0.41
21:S2:997:GLU:OE2	21:S2:997:GLU:HA	2.21	0.41
21:S2:1058:ILE:HG22	21:S2:1059:ASP:N	2.35	0.41
21:S3:1039:GLU:HG2	21:S3:1039:GLU:H	1.59	0.41
21:S4:997:GLU:O	21:S4:1000:ARG:HB2	2.21	0.41
24:V1:247:TYR:CZ	24:V1:260:LEU:HD13	2.56	0.41
24:V4:153:LYS:HA	25:W4:261:SER:HB2	2.01	0.41
24:V4:330:ASP:OD2	24:V4:332:ARG:NH2	2.51	0.41
25:W1:217:LEU:HD13	25:W1:218:LEU:N	2.36	0.41
26:X1:396:ASP:OD1	26:X1:401:LYS:HE3	2.20	0.41
26:X2:57:PRO:HB2	26:X2:82:ILE:HD11	2.03	0.41
26:X2:531:LEU:HB3	26:X2:534:ILE:CG1	2.51	0.41
27:Y2:192:ILE:HG22	27:Y2:207:LYS:HG2	2.02	0.41
27:Y3:76:SER:HB3	27:Y3:78:ASP:OD1	2.19	0.41
28:Z1:454:LYS:O	28:Z1:458:ASN:ND2	2.51	0.41
1:A1:1204:TRP:HD1	2:A2:645:PHE:CE1	2.23	0.41
1:A1:1392:ARG:HB3	2:A2:889:VAL:HA	2.02	0.41
2:A2:551:GLN:HB2	2:A2:574:ARG:HD2	2.01	0.41
1:A3:1084:ARG:N	6:D3:798:MET:HE3	2.35	0.41
1:A3:1120:ASP:C	3:A6:599:ARG:CZ	2.86	0.41
2:A4:86:ASN:CG	3:A6:393:HIS:C	2.63	0.41
2:A4:687:LEU:CD2	3:A6:397:LEU:HA	2.51	0.41
2:A4:704:THR:H	3:A6:463:ASP:HA	1.43	0.41
2:A4:706:PRO:CA	3:A6:480:VAL:HG11	2.01	0.41
2:A4:718:GLU:CD	3:A6:491:VAL:HG12	2.40	0.41
2:A4:720:LEU:HA	3:A6:495:ASP:HB2	2.03	0.41
2:A4:737:PRO:HA	3:A6:89:LEU:CA	2.50	0.41
2:A4:801:THR:OG1	3:A6:381:LEU:CA	2.68	0.41
2:A4:851:ASP:HA	3:A6:171:HIS:CB	2.42	0.41
2:A4:895:PRO:CA	3:A6:179:TYR:HB2	2.40	0.41
2:A4:895:PRO:HB3	4:B6:344:ALA:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:1349:ALA:O	2:A4:1350:VAL:HG12	2.20	0.41
3:A5:150:PHE:CE2	5:C2:741:THR:HG22	2.56	0.41
3:A5:232:LEU:CD2	5:C2:738:ASP:C	2.74	0.41
3:A6:1277:TRP:CG	3:A6:1278:PRO:HD3	2.55	0.41
3:A6:1393:THR:CB	28:Z4:910:GLN:O	2.67	0.41
3:A6:1416:ARG:C	28:Z4:1002:MET:H	2.23	0.41
6:D3:691:LEU:HD11	6:D3:717:LEU:HD23	2.03	0.41
6:D4:647:SER:HB3	6:D4:648:PRO:HD3	2.03	0.41
6:D7:190:TYR:OH	6:D7:600:LYS:HE2	2.21	0.41
8:F1:701:GLU:OE2	8:F1:701:GLU:N	2.54	0.41
9:G2:257:THR:CG2	17:O4:256:TYR:N	2.56	0.41
11:I1:940:LEU:HD11	17:O1:258:GLU:HB3	2.02	0.41
11:I1:954:GLU:HB2	16:N1:403:VAL:CA	2.44	0.41
11:I1:976:ARG:NH2	20:R1:146:LEU:HB2	2.15	0.41
11:I1:1017:VAL:N	16:N1:412:ASN:CB	2.83	0.41
11:I1:1035:GLN:HG2	15:M1:625:GLY:C	2.41	0.41
11:I1:1103:LEU:HD21	20:R1:175:GLN:HG2	2.01	0.41
11:I2:884:LEU:HB3	16:N3:396:ILE:C	2.41	0.41
11:I2:917:TYR:CD1	15:M3:586:ASP:O	2.73	0.41
11:I2:1040:HIS:HA	16:N3:434:LEU:HD13	2.03	0.41
11:I2:1049:LEU:HD13	20:R3:146:LEU:HB3	2.03	0.41
11:I3:535:ASP:OD1	11:I3:536:GLU:N	2.53	0.41
11:I4:819:MET:CE	27:Y3:178:PHE:CD1	2.82	0.41
17:O2:98:TYR:CD1	17:O2:138:LEU:HA	2.56	0.41
21:S1:597:ILE:N	21:S2:1120:PRO:HD2	2.36	0.41
21:S1:685:PRO:O	21:S2:1152:VAL:CB	2.69	0.41
21:S1:934:HIS:C	21:S1:934:HIS:CD2	2.94	0.41
21:S1:1078:LEU:HD21	21:S1:1097:LYS:HE3	2.01	0.41
21:S1:1127:GLN:C	21:S1:1129:ASP:N	2.74	0.41
21:S3:597:ILE:CB	21:S4:1153:GLN:C	2.69	0.41
21:S3:1013:LEU:HD12	21:S3:1013:LEU:C	2.41	0.41
21:S4:231:ARG:O	21:S4:242:GLN:HA	2.21	0.41
22:T4:696:MET:HE3	22:T4:708:ALA:O	2.21	0.41
22:T4:812:ASP:O	22:T4:816:LYS:HG2	2.21	0.41
23:U1:104:LEU:HG	23:U1:224:ASP:HB3	2.02	0.41
23:U3:359:ILE:HD13	23:U3:389:VAL:HG13	2.02	0.41
24:V1:513:MET:HA	24:V1:541:ALA:HB1	2.02	0.41
24:V2:373:LEU:HB3	24:V2:376:LEU:HD12	2.02	0.41
24:V3:247:TYR:CZ	24:V3:260:LEU:HD13	2.56	0.41
24:V3:440:ARG:HB3	25:W3:285:LEU:HD22	2.02	0.41
25:W1:48:THR:O	25:W1:49:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:W4:222:LEU:O	25:W4:233:ILE:HA	2.19	0.41
26:X1:51:MET:HB3	27:Y1:346:THR:C	2.41	0.41
26:X2:51:MET:HB3	27:Y2:346:THR:C	2.41	0.41
26:X2:168:ARG:HD3	26:X2:170:ASN:HB3	2.02	0.41
26:X3:243:GLN:O	26:X3:247:LYS:HG3	2.19	0.41
26:X3:352:THR:OG1	26:X3:355:GLU:HG3	2.21	0.41
26:X4:152:LEU:CD2	26:X4:182:LEU:HB3	2.43	0.41
26:X4:296:PRO:HG2	26:X4:303:PHE:HA	2.03	0.41
27:Y1:77:TYR:HD1	27:Y1:110:SER:HB3	1.86	0.41
27:Y1:86:GLU:HB2	27:Y1:98:TRP:CZ2	2.56	0.41
28:Z1:153:GLN:OE1	28:Z1:193:HIS:HA	2.20	0.41
28:Z1:167:PHE:O	28:Z1:174:SER:HB2	2.21	0.41
28:Z4:59:CYS:HB2	28:Z4:464:THR:OG1	2.19	0.41
28:Z4:739:PHE:O	28:Z4:743:ASN:N	2.36	0.41
1:A1:868:GLN:CA	6:D3:277:ASN:H	2.15	0.41
2:A2:404:LEU:HB3	2:A2:429:LEU:HD13	2.03	0.41
2:A2:827:ILE:HG22	2:A2:863:GLN:HB2	2.03	0.41
2:A2:872:ALA:C	6:D1:565:MET:HA	2.39	0.41
2:A2:977:VAL:O	6:D1:493:ALA:HA	2.20	0.41
2:A2:992:TYR:CG	6:D1:238:ALA:CB	3.02	0.41
2:A2:1094:ILE:HB	6:D2:759:GLN:CG	2.51	0.41
1:A3:1230:TYR:HE1	3:A6:609:GLU:O	1.74	0.41
1:A3:1231:VAL:CA	3:A6:613:ALA:CB	2.88	0.41
1:A3:1233:GLN:CG	3:A6:575:LEU:HD12	2.49	0.41
1:A3:1234:GLN:CD	3:A6:610:THR:HG23	2.40	0.41
1:A3:1240:HIS:CE1	3:A6:118:SER:OG	2.62	0.41
1:A3:1242:THR:HG22	1:A3:1245:ASP:H	1.85	0.41
1:A3:1249:PHE:CE2	3:A6:637:THR:OG1	2.72	0.41
2:A4:87:GLN:HG3	3:A6:408:ALA:N	2.26	0.41
2:A4:172:PRO:CB	6:D3:781:ARG:NE	2.84	0.41
2:A4:496:THR:HG21	3:A6:366:ALA:HB1	1.69	0.41
2:A4:683:LEU:C	3:A6:433:LYS:O	2.59	0.41
2:A4:683:LEU:HB2	3:A6:403:ARG:CZ	2.50	0.41
2:A4:691:LYS:HZ3	3:A6:330:LEU:HG	1.77	0.41
2:A4:701:ILE:HG23	3:A6:464:PRO:CG	2.51	0.41
2:A4:716:ASN:C	3:A6:512:GLU:CD	2.79	0.41
2:A4:761:GLN:HE22	3:A6:535:PHE:HZ	1.62	0.41
2:A4:765:GLU:C	3:A6:559:PHE:CE1	2.94	0.41
2:A4:780:GLU:HG3	3:A6:564:ASN:N	2.21	0.41
2:A4:804:GLN:N	3:A6:381:LEU:HB2	2.36	0.41
2:A4:817:VAL:CG1	3:A6:146:LYS:CG	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:996:ASN:OD1	11:I5:55:ASP:C	2.57	0.41
3:A5:1023:ILE:HG13	11:I5:55:ASP:OD1	2.20	0.41
3:A5:1139:ILE:HD11	5:C5:743:LEU:HD11	2.03	0.41
3:A5:1381:ALA:HB2	28:Z2:810:ASP:CB	2.50	0.41
3:A5:1391:ARG:CZ	28:Z2:868:GLN:O	2.69	0.41
3:A6:861:GLN:O	3:A6:865:ALA:N	2.52	0.41
3:A6:1366:LEU:CD1	28:Z4:911:GLU:O	2.68	0.41
6:D1:245:ARG:HG3	6:D1:503:LEU:HD21	2.03	0.41
6:D3:190:TYR:OH	6:D3:600:LYS:HE2	2.21	0.41
6:D3:472:PHE:O	6:D3:476:VAL:HG23	2.21	0.41
6:D4:691:LEU:HD11	6:D4:717:LEU:HD23	2.03	0.41
6:D4:734:PHE:CE1	6:D4:745:LEU:HD22	2.55	0.41
11:I1:952:LEU:CA	16:N1:403:VAL:CG2	2.72	0.41
11:I1:1014:ASN:CB	16:N1:414:ALA:N	2.82	0.41
11:I1:1040:HIS:HB2	15:M1:623:LEU:HD13	2.02	0.41
11:I1:1055:GLU:CB	17:O1:280:GLU:CB	2.76	0.41
11:I1:1611:PHE:HZ	11:I2:1669:ARG:HH11	1.61	0.41
11:I2:828:VAL:O	17:O3:237:PRO:HG3	2.06	0.41
11:I2:846:ILE:CB	17:O3:247:TRP:CH2	3.01	0.41
11:I2:887:GLN:O	17:O3:242:ARG:NE	2.54	0.41
11:I2:895:ARG:HD2	17:O3:234:LEU:CG	2.40	0.41
11:I2:914:ASN:O	15:M3:585:LEU:CA	2.65	0.41
11:I2:966:TRP:CB	20:R3:150:ASN:O	2.68	0.41
11:I2:1049:LEU:HD21	17:O3:291:ASP:CG	2.40	0.41
11:I5:1182:GLN:NE2	12:J5:245:GLU:CB	2.79	0.41
21:S4:443:VAL:CG1	21:S4:445:ASN:OD1	2.69	0.41
21:S4:976:LEU:HG	22:T4:882:SER:HB3	2.01	0.41
22:T1:694:ALA:O	22:T1:698:LYS:HE3	2.21	0.41
22:T3:785:LYS:O	22:T3:789:GLU:HG3	2.21	0.41
23:U3:7:TYR:O	23:U3:9:THR:N	2.54	0.41
24:V2:153:LYS:HA	25:W2:261:SER:HB2	2.01	0.41
24:V2:208:TYR:CE2	24:V2:505:GLU:HG3	2.54	0.41
24:V4:161:LEU:HD11	25:W4:17:LEU:HG	2.03	0.41
25:W4:191:ALA:C	25:W4:193:THR:H	2.23	0.41
25:W4:217:LEU:HD13	25:W4:218:LEU:N	2.35	0.41
26:X1:57:PRO:HB2	26:X1:82:ILE:HD11	2.03	0.41
26:X1:141:ASN:C	26:X1:145:ASN:ND2	2.74	0.41
26:X1:168:ARG:HD3	26:X1:170:ASN:HB3	2.02	0.41
26:X1:246:TRP:CD1	26:X1:331:TYR:CD2	3.09	0.41
26:X1:480:GLU:O	26:X1:483:PRO:HD2	2.21	0.41
26:X2:352:THR:OG1	26:X2:355:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:454:LEU:HD21	26:X3:503:VAL:HG21	2.02	0.41
26:X3:531:LEU:HB3	26:X3:534:ILE:CG1	2.51	0.41
27:Y1:16:VAL:HG12	27:Y1:63:TRP:CD1	2.55	0.41
27:Y3:16:VAL:HG12	27:Y3:63:TRP:CD1	2.55	0.41
28:Z1:186:LEU:HD12	28:Z1:186:LEU:HA	1.91	0.41
28:Z2:454:LYS:O	28:Z2:458:ASN:ND2	2.51	0.41
28:Z3:167:PHE:O	28:Z3:174:SER:HB2	2.21	0.41
1:A1:875:LEU:CD1	6:D3:277:ASN:HB2	2.49	0.41
2:A2:192:VAL:HG13	2:A2:253:GLY:HA3	2.03	0.41
2:A2:780:GLU:CA	6:D1:679:ILE:N	2.83	0.41
2:A2:825:ARG:HH11	6:D1:633:LYS:CD	2.30	0.41
2:A2:1130:ARG:O	3:A5:141:GLY:HA2	2.21	0.41
2:A2:1151:THR:HA	5:C2:733:LEU:CB	2.51	0.41
2:A2:1157:TYR:CD1	3:A5:176:LEU:HD21	2.03	0.41
1:A3:1086:LYS:CE	6:D3:798:MET:O	2.69	0.41
1:A3:1114:ILE:HA	3:A6:590:SER:OG	2.21	0.41
1:A3:1162:ASN:ND2	3:A6:732:GLN:OE1	2.54	0.41
1:A3:1189:LEU:CG	3:A6:583:LEU:HD21	2.51	0.41
1:A3:1201:ARG:N	2:A4:728:LYS:O	2.53	0.41
1:A3:1220:PRO:HG2	2:A4:672:ARG:NE	2.36	0.41
1:A3:1239:ALA:CB	3:A6:584:GLY:HA3	2.51	0.41
1:A3:1267:GLN:H	3:A6:552:PHE:HB3	1.28	0.41
1:A3:1271:ILE:HG13	3:A6:550:VAL:CB	2.34	0.41
1:A3:1281:LEU:HD13	3:A6:577:ASP:HA	1.99	0.41
1:A3:1332:ARG:CG	3:A6:127:HIS:CE1	3.03	0.41
2:A4:79:ALA:HB1	3:A6:321:ASP:CB	2.51	0.41
2:A4:192:VAL:HG13	2:A4:253:GLY:HA3	2.02	0.41
2:A4:404:LEU:HB3	2:A4:429:LEU:HD13	2.03	0.41
2:A4:543:GLY:C	3:A6:363:ALA:N	2.65	0.41
2:A4:607:ARG:CA	3:A6:506:SER:HA	2.45	0.41
2:A4:635:ARG:O	3:A6:603:ASN:HB3	2.20	0.41
2:A4:644:ALA:HA	3:A6:503:GLN:HB3	1.31	0.41
2:A4:717:VAL:HG11	3:A6:474:GLY:O	2.20	0.41
2:A4:761:GLN:NE2	3:A6:547:GLU:N	2.69	0.41
2:A4:778:PHE:CZ	3:A6:466:ALA:CB	2.87	0.41
2:A4:859:GLN:OE1	3:A6:134:VAL:CG2	2.25	0.41
2:A4:876:ARG:HG3	6:D3:564:ASN:HA	1.69	0.41
2:A4:900:THR:CB	3:A6:137:HIS:CD2	2.75	0.41
2:A4:901:ALA:CB	3:A6:176:LEU:HD12	2.41	0.41
2:A4:982:THR:HB	6:D3:497:PHE:HB3	1.72	0.41
3:A5:157:TRP:HD1	5:C2:741:THR:HG22	1.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:1155:ASN:ND2	5:C5:736:ASN:H	2.18	0.41
3:A5:1277:TRP:CG	3:A5:1278:PRO:HD3	2.55	0.41
6:D1:450:GLU:OE1	6:D1:481:ARG:NH2	2.51	0.41
6:D1:691:LEU:HD11	6:D1:717:LEU:HD23	2.03	0.41
6:D4:245:ARG:HG3	6:D4:503:LEU:HD21	2.03	0.41
6:D5:570:VAL:O	6:D5:574:VAL:HG23	2.20	0.41
6:D6:190:TYR:OH	6:D6:600:LYS:HE2	2.21	0.41
6:D7:649:VAL:O	6:D7:649:VAL:CG1	2.68	0.41
6:D7:691:LEU:HD11	6:D7:717:LEU:HD23	2.03	0.41
8:F1:158:PRO:HG3	11:I1:1207:PRO:HD3	0.50	0.41
8:F1:462:SER:N	8:F1:463:PRO:CD	2.84	0.41
8:F1:1205:TRP:CE2	17:O2:254:ARG:NE	2.89	0.41
8:F1:1351:VAL:O	8:F1:1352:LYS:HG2	2.21	0.41
8:F1:1655:LEU:O	8:F1:1659:MET:HG2	2.21	0.41
8:F2:1193:MET:HB3	8:F2:1251:TYR:HB3	2.03	0.41
8:F2:1211:ARG:O	8:F2:1215:GLU:N	2.54	0.41
8:F2:1471:PHE:CG	8:F2:1472:GLY:N	2.89	0.41
8:F2:1836:GLU:O	8:F2:1839:VAL:HG12	2.20	0.41
11:I1:874:LEU:HD23	17:O1:252:VAL:CG2	2.48	0.41
11:I1:894:VAL:CG2	17:O1:238:ALA:N	2.51	0.41
11:I1:947:LEU:HD12	16:N1:411:GLN:HB3	2.01	0.41
11:I1:950:LEU:HB2	16:N1:407:ALA:HB3	1.84	0.41
11:I1:959:SER:HB3	20:R1:166:LEU:CG	2.50	0.41
11:I1:961:ARG:O	20:R1:165:SER:CB	2.62	0.41
11:I1:984:GLU:CG	15:M1:617:THR:HG22	2.50	0.41
11:I1:1042:LEU:O	15:M1:616:LEU:HD21	2.18	0.41
11:I1:1644:ARG:NH2	11:I1:1721:GLU:OE1	2.54	0.41
11:I1:1738:TYR:C	11:I2:1603:ARG:O	2.58	0.41
11:I2:925:LEU:HG	15:M3:593:ALA:HA	2.02	0.41
11:I2:936:LYS:HA	15:M3:609:GLY:C	2.39	0.41
11:I2:952:LEU:CD1	15:M3:599:ILE:HG23	2.50	0.41
11:I2:978:LYS:HG2	20:R3:151:LYS:CD	2.51	0.41
11:I2:997:SER:CB	17:O3:270:THR:HG21	2.49	0.41
11:I2:1036:PRO:HD2	15:M3:626:HIS:CB	2.50	0.41
11:I2:1037:THR:OG1	20:R3:169:GLY:N	2.53	0.41
11:I2:1048:GLU:H	17:O3:284:LYS:HA	1.84	0.41
11:I3:1644:ARG:NH2	11:I3:1721:GLU:OE1	2.54	0.41
11:I4:535:ASP:OD1	11:I4:536:GLU:N	2.53	0.41
11:I4:1371:LEU:O	11:I4:1371:LEU:HD23	2.20	0.41
11:I5:763:ASP:OD1	11:I5:835:ARG:NE	2.49	0.41
11:I5:1644:ARG:NH2	11:I5:1721:GLU:OE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M2:614:ASP:HB2	15:M2:615:PRO:HD2	2.03	0.41
17:O1:98:TYR:CD1	17:O1:138:LEU:HA	2.56	0.41
17:O3:148:ARG:HD2	18:P3:325:ILE:CG2	2.41	0.41
21:S1:443:VAL:CG1	21:S1:445:ASN:OD1	2.69	0.41
21:S1:671:ALA:N	21:S2:1145:LYS:CB	2.84	0.41
21:S1:686:ALA:CB	21:S2:1152:VAL:CA	2.95	0.41
21:S1:931:ALA:HA	21:S1:935:LEU:HB2	2.03	0.41
21:S1:1055:LEU:N	21:S1:1055:LEU:HD22	2.35	0.41
21:S2:443:VAL:CG1	21:S2:445:ASN:OD1	2.69	0.41
21:S2:699:ILE:C	21:S2:701:GLU:H	2.24	0.41
21:S2:980:ALA:HB2	22:T2:897:LEU:HB3	2.02	0.41
21:S2:1124:ASP:OD1	21:S2:1124:ASP:C	2.59	0.41
21:S3:116:CYS:HB3	21:S3:123:LEU:HD21	2.02	0.41
21:S3:443:VAL:CG1	21:S3:445:ASN:OD1	2.69	0.41
21:S3:1003:LEU:O	21:S3:1006:GLU:HB3	2.20	0.41
21:S3:1058:ILE:HG22	21:S3:1059:ASP:N	2.35	0.41
21:S3:1073:ILE:HD12	21:S3:1073:ILE:C	2.41	0.41
21:S3:1149:GLU:C	21:S3:1151:TYR:H	2.25	0.41
21:S4:178:ALA:HA	21:S4:183:SER:O	2.20	0.41
21:S4:408:THR:HG23	21:S4:410:PRO:HD3	2.03	0.41
21:S4:997:GLU:HA	21:S4:997:GLU:OE2	2.20	0.41
21:S4:1055:LEU:N	21:S4:1055:LEU:HD22	2.36	0.41
21:S4:1058:ILE:O	21:S4:1059:ASP:CB	2.58	0.41
21:S4:1070:LYS:HZ3	21:S4:1121:GLU:HB3	1.86	0.41
21:S4:1073:ILE:HD12	21:S4:1073:ILE:C	2.41	0.41
22:T3:760:PHE:CD1	22:T3:864:ILE:HD11	2.55	0.41
22:T3:862:HIS:CE1	22:T3:903:LYS:HB3	2.56	0.41
22:T4:781:THR:O	22:T4:785:LYS:HG3	2.20	0.41
23:U1:359:ILE:HD13	23:U1:389:VAL:HG13	2.02	0.41
23:U3:279:TYR:CG	25:W4:189:SER:O	2.56	0.41
23:U4:23:LYS:HD2	23:U4:434:THR:HG21	2.01	0.41
23:U4:264:TYR:O	23:U4:268:SER:OG	2.34	0.41
24:V1:155:SER:HB3	24:V1:159:MET:H	1.85	0.41
24:V1:292:ILE:H	24:V1:292:ILE:CD1	2.27	0.41
24:V1:440:ARG:HB3	25:W1:285:LEU:HD22	2.02	0.41
24:V2:162:THR:HG22	24:V2:163:LYS:N	2.35	0.41
24:V2:247:TYR:CZ	24:V2:260:LEU:HD13	2.56	0.41
24:V2:513:MET:HA	24:V2:541:ALA:HB1	2.02	0.41
24:V3:153:LYS:HG2	25:W3:261:SER:HB2	2.03	0.41
24:V3:418:PRO:HB3	24:V3:445:ALA:HB1	2.02	0.41
24:V3:468:LYS:HD2	24:V3:499:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V4:162:THR:HG22	24:V4:163:LYS:N	2.35	0.41
25:W1:9:ASN:HD22	25:W1:9:ASN:HA	1.48	0.41
25:W2:23:ARG:NH1	25:W2:84:GLU:OE1	2.54	0.41
25:W2:217:LEU:HD13	25:W2:218:LEU:N	2.36	0.41
25:W2:223:ALA:HB2	25:W2:262:TRP:CZ2	2.55	0.41
25:W3:57:TRP:HE1	25:W3:101:SER:HG	1.68	0.41
25:W3:253:PHE:CD1	25:W3:257:LEU:HD11	2.56	0.41
25:W4:253:PHE:CD1	25:W4:257:LEU:HD11	2.56	0.41
26:X1:220:ASP:OD2	26:X1:222:GLU:HB3	2.21	0.41
26:X1:531:LEU:HB3	26:X1:534:ILE:CG1	2.51	0.41
26:X2:220:ASP:OD2	26:X2:222:GLU:HB3	2.21	0.41
26:X2:243:GLN:H	26:X2:243:GLN:HG3	1.64	0.41
26:X3:57:PRO:HB2	26:X3:82:ILE:HD11	2.03	0.41
26:X3:77:GLN:HE21	26:X3:77:GLN:HB2	1.74	0.41
26:X3:296:PRO:HG2	26:X3:303:PHE:HA	2.03	0.41
26:X3:480:GLU:O	26:X3:483:PRO:HD2	2.21	0.41
26:X4:105:SER:HB2	26:X4:481:LEU:HD21	2.03	0.41
26:X4:246:TRP:CD1	26:X4:331:TYR:CD2	3.09	0.41
26:X4:291:LEU:HD13	26:X4:310:VAL:HG22	2.03	0.41
26:X4:480:GLU:O	26:X4:483:PRO:HD2	2.21	0.41
26:X4:511:TYR:HA	26:X4:512:PRO:HD3	1.73	0.41
27:Y4:86:GLU:HB2	27:Y4:98:TRP:CZ2	2.56	0.41
28:Z2:53:GLY:HA3	28:Z2:71:HIS:HB3	2.02	0.41
28:Z2:287:LEU:O	28:Z2:300:MET:HA	2.20	0.41
28:Z3:291:LEU:HA	28:Z3:292:PRO:HD3	1.76	0.41
2:A2:223:THR:CA	6:D1:709:ARG:NH2	2.59	0.41
2:A2:781:ARG:NE	6:D1:673:ARG:HB2	2.20	0.41
2:A2:857:LYS:O	6:D1:606:LYS:CD	2.69	0.41
2:A2:865:ALA:HB2	6:D1:607:PRO:CG	2.51	0.41
2:A2:1132:PRO:N	3:A5:138:LEU:HA	2.33	0.41
1:A3:1255:LEU:H	3:A6:634:ASP:CG	2.17	0.41
1:A3:1282:PHE:H	3:A6:625:LEU:CG	2.27	0.41
2:A4:86:ASN:O	3:A6:406:LEU:HB3	2.15	0.41
2:A4:676:LEU:O	3:A6:102:CYS:SG	2.79	0.41
2:A4:727:ASN:ND2	3:A6:605:TYR:CB	2.83	0.41
2:A4:798:LYS:CE	3:A6:264:GLU:CD	2.83	0.41
2:A4:863:GLN:N	3:A6:132:ASP:CA	2.82	0.41
2:A4:864:ARG:HG2	6:D3:609:ILE:CG1	2.51	0.41
2:A4:892:SER:C	3:A6:155:TYR:HE2	2.24	0.41
2:A4:947:LYS:H	4:B6:352:ALA:N	2.18	0.41
3:A6:483:HIS:CG	6:D3:675:ARG:HD3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A6:520:GLU:HB2	6:D3:635:ALA:HB3	1.83	0.41
3:A6:906:ILE:CG2	3:A6:965:LYS:HG2	2.51	0.41
3:A6:943:ASP:OD2	3:A6:945:ARG:NE	2.43	0.41
3:A6:1359:LEU:CB	28:Z4:918:PHE:H	2.34	0.41
6:D3:606:LYS:N	6:D3:607:PRO:HD2	2.36	0.41
6:D5:245:ARG:HG3	6:D5:503:LEU:HD21	2.03	0.41
6:D6:520:PRO:HA	6:D6:521:PRO:HD3	1.96	0.41
6:D6:606:LYS:N	6:D6:607:PRO:HD2	2.36	0.41
6:D7:606:LYS:N	6:D7:607:PRO:HD2	2.36	0.41
8:F1:638:TRP:NE1	8:F1:725:SER:O	2.44	0.41
8:F1:982:PRO:CB	11:I1:1388:GLU:HG2	2.50	0.41
8:F1:1193:MET:HB3	8:F1:1251:TYR:HB3	2.03	0.41
8:F1:1203:TRP:CH2	17:O2:248:SER:C	2.82	0.41
8:F1:1205:TRP:NE1	17:O2:254:ARG:CD	2.70	0.41
11:I1:894:VAL:HG11	17:O1:238:ALA:N	2.36	0.41
11:I1:1021:ILE:HD11	16:N1:410:MET:CE	2.49	0.41
11:I1:1043:LEU:H	20:R1:170:LEU:HD11	1.86	0.41
11:I2:535:ASP:OD1	11:I2:536:GLU:N	2.53	0.41
11:I2:828:VAL:HG13	17:O3:237:PRO:HB2	2.02	0.41
11:I2:915:ALA:HB3	15:M3:583:ASP:C	2.40	0.41
11:I2:925:LEU:HD12	20:R3:156:GLY:N	2.26	0.41
11:I2:925:LEU:CG	15:M3:593:ALA:HB1	2.50	0.41
11:I3:763:ASP:OD1	11:I3:835:ARG:NE	2.49	0.41
12:J3:247:ASP:O	12:J3:251:TYR:N	2.51	0.41
21:S1:684:THR:N	21:S2:1148:TYR:CA	2.44	0.41
21:S1:953:LEU:HD23	21:S1:953:LEU:HA	1.87	0.41
21:S1:1013:LEU:C	21:S1:1013:LEU:HD12	2.41	0.41
21:S2:948:LYS:HB2	21:S2:948:LYS:HE3	1.72	0.41
21:S3:147:SER:OG	21:S3:181:GLU:OE2	2.39	0.41
21:S3:231:ARG:O	21:S3:242:GLN:HA	2.21	0.41
21:S3:931:ALA:HA	21:S3:935:LEU:HB2	2.03	0.41
21:S3:953:LEU:HD13	21:S3:973:LEU:HB3	2.03	0.41
21:S4:176:MET:CE	21:S4:232:LEU:HD13	2.43	0.41
21:S4:184:ILE:CD1	21:S4:201:VAL:HG23	2.46	0.41
21:S4:445:ASN:OD1	21:S4:446:ALA:N	2.54	0.41
21:S4:1003:LEU:O	21:S4:1006:GLU:HB3	2.20	0.41
22:T1:900:LEU:O	22:T1:904:LEU:HG	2.21	0.41
22:T4:785:LYS:O	22:T4:789:GLU:HG3	2.21	0.41
22:T4:900:LEU:O	22:T4:904:LEU:HG	2.21	0.41
23:U2:7:TYR:O	23:U2:9:THR:N	2.54	0.41
23:U2:104:LEU:HG	23:U2:224:ASP:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:V2:440:ARG:HB3	25:W2:285:LEU:HD22	2.02	0.41
25:W1:225:VAL:CG2	25:W1:271:LEU:HD22	2.51	0.41
25:W2:14:ASP:OD1	25:W2:15:ALA:N	2.54	0.41
25:W3:181:LEU:HD22	25:W3:199:THR:CG2	2.51	0.41
25:W3:225:VAL:CG2	25:W3:271:LEU:HD22	2.51	0.41
25:W4:233:ILE:HD11	25:W4:248:LEU:HD13	2.03	0.41
26:X1:511:TYR:HA	26:X1:512:PRO:HD3	1.73	0.41
26:X2:141:ASN:C	26:X2:145:ASN:HD22	2.24	0.41
26:X2:141:ASN:C	26:X2:145:ASN:ND2	2.74	0.41
26:X2:373:GLU:O	26:X2:377:MET:HG3	2.21	0.41
26:X4:78:ASN:HD21	26:X4:95:ILE:HG13	1.86	0.41
26:X4:168:ARG:HD3	26:X4:170:ASN:HB3	2.02	0.41
26:X4:334:ASP:HB3	26:X4:349:TYR:HE2	1.86	0.41
27:Y3:79:LYS:HG2	27:Y3:109:GLY:C	2.41	0.41
28:Z1:169:VAL:HG13	28:Z1:228:LEU:HD22	2.04	0.41
28:Z3:153:GLN:OE1	28:Z3:193:HIS:HA	2.21	0.41
1:A1:1018:ASP:OD1	6:D1:819:ASN:HB2	2.21	0.40
2:A2:781:ARG:CZ	6:D1:673:ARG:HH12	2.32	0.40
2:A2:873:PRO:HG3	6:D1:572:GLU:OE2	2.22	0.40
2:A2:1160:GLN:HG2	3:A5:177:ILE:N	2.36	0.40
1:A3:861:GLN:O	1:A3:865:ALA:N	2.52	0.40
1:A3:1080:ILE:HA	6:D3:798:MET:HE1	2.03	0.40
1:A3:1277:TRP:CZ3	3:A6:576:VAL:HG23	2.56	0.40
2:A4:678:LEU:O	3:A6:431:PHE:CD2	2.73	0.40
2:A4:725:GLU:O	3:A6:575:LEU:HB2	2.21	0.40
2:A4:760:LEU:HD11	3:A6:98:LEU:CD2	2.50	0.40
2:A4:764:MET:HB3	3:A6:494:PRO:HD3	1.80	0.40
2:A4:893:LEU:HB3	3:A6:177:ILE:HA	1.94	0.40
3:A5:1024:ASP:O	11:I5:68:ILE:CD1	2.68	0.40
3:A5:1416:ARG:HG2	28:Z2:962:LYS:HA	0.94	0.40
3:A6:1369:ILE:C	28:Z4:874:ASN:CB	2.80	0.40
6:D3:245:ARG:HG3	6:D3:503:LEU:HD21	2.03	0.40
6:D5:606:LYS:N	6:D5:607:PRO:HD2	2.36	0.40
6:D6:472:PHE:O	6:D6:476:VAL:HG23	2.21	0.40
8:F1:1471:PHE:CG	8:F1:1472:GLY:N	2.89	0.40
8:F1:1511:VAL:O	8:F1:1511:VAL:HG22	2.21	0.40
8:F2:1167:GLU:N	8:F2:1167:GLU:OE1	2.54	0.40
8:F2:1351:VAL:O	8:F2:1352:LYS:HG2	2.21	0.40
8:F2:1467:VAL:HG22	8:F2:1467:VAL:O	2.21	0.40
9:G1:255:LEU:HG	17:O2:253:LEU:O	2.20	0.40
11:I1:959:SER:H	20:R1:166:LEU:HD11	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1034:ASP:HB3	16:N1:444:SER:OG	2.19	0.40
11:I1:1044:GLY:CA	15:M1:616:LEU:HD13	2.50	0.40
11:I1:1048:GLU:CA	20:R1:143:PHE:CE1	3.01	0.40
11:I1:1109:LEU:HD12	17:O1:290:TYR:HH	1.79	0.40
11:I2:896:PRO:CG	17:O3:233:THR:HG23	2.52	0.40
11:I2:922:ASP:CA	20:R3:163:LEU:HB3	2.49	0.40
11:I2:978:LYS:NZ	20:R3:154:ALA:N	2.68	0.40
11:I2:980:ILE:HG12	20:R3:147:LEU:HA	2.02	0.40
11:I2:1052:LEU:HD13	16:N3:438:LEU:HD22	2.00	0.40
17:O2:142:PHE:O	17:O2:145:ILE:HG22	2.22	0.40
17:O4:98:TYR:CD1	17:O4:138:LEU:HA	2.56	0.40
21:S1:231:ARG:O	21:S1:242:GLN:HA	2.21	0.40
21:S1:980:ALA:HB2	22:T1:897:LEU:HB3	2.02	0.40
21:S1:997:GLU:O	21:S1:1000:ARG:HB2	2.21	0.40
21:S1:1073:ILE:HD12	21:S1:1073:ILE:C	2.41	0.40
21:S1:1124:ASP:OD1	21:S1:1124:ASP:C	2.59	0.40
21:S2:1013:LEU:C	21:S2:1013:LEU:HD12	2.41	0.40
21:S3:597:ILE:N	21:S4:1154:GLY:O	2.38	0.40
21:S3:679:ILE:CA	21:S4:1144:LEU:CD1	2.61	0.40
21:S3:1058:ILE:O	21:S3:1059:ASP:CB	2.58	0.40
21:S4:965:ALA:HB2	21:S4:1021:SER:HB2	2.02	0.40
21:S4:1097:LYS:NZ	21:S4:1101:PHE:CE1	2.81	0.40
22:T2:694:ALA:O	22:T2:698:LYS:HE3	2.21	0.40
22:T2:829:MET:HE2	22:T2:849:LEU:HD12	2.02	0.40
22:T4:760:PHE:CD1	22:T4:864:ILE:HD11	2.55	0.40
23:U1:13:THR:O	23:U1:17:ASP:HB2	2.21	0.40
23:U1:425:LEU:HD23	23:U1:425:LEU:HA	1.90	0.40
23:U3:278:GLN:OE1	25:W4:189:SER:O	2.38	0.40
23:U4:9:THR:O	23:U4:9:THR:HG22	2.21	0.40
23:U4:82:LEU:HD23	23:U4:82:LEU:HA	1.87	0.40
23:U4:156:CYS:HB2	24:V4:351:ILE:HG12	2.03	0.40
24:V1:153:LYS:HG2	25:W1:261:SER:HB2	2.03	0.40
24:V1:418:PRO:HB3	24:V1:445:ALA:HB1	2.02	0.40
25:W1:63:HIS:HD2	25:W1:65:LYS:H	1.68	0.40
25:W1:209:ASP:OD2	25:W1:259:ARG:HD3	2.21	0.40
25:W4:14:ASP:OD1	25:W4:15:ALA:N	2.54	0.40
25:W4:209:ASP:OD2	25:W4:259:ARG:HD3	2.22	0.40
26:X1:296:PRO:HG2	26:X1:303:PHE:HA	2.03	0.40
26:X1:352:THR:OG1	26:X1:355:GLU:HG3	2.21	0.40
26:X2:240:PHE:CD1	26:X2:268:SER:HB3	2.56	0.40
26:X2:511:TYR:HE2	26:X2:518:ASP:HB3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:434:PHE:CD2	26:X3:458:ARG:HA	2.56	0.40
26:X4:141:ASN:C	26:X4:145:ASN:ND2	2.74	0.40
26:X4:373:GLU:O	26:X4:377:MET:HG3	2.21	0.40
27:Y2:175:PRO:HD3	27:Y2:220:TRP:HB3	2.02	0.40
27:Y3:131:ASP:O	27:Y3:133:ILE:HG13	2.20	0.40
28:Z3:457:PHE:HA	28:Z3:477:GLN:HB2	2.03	0.40
2:A2:869:ALA:C	6:D1:548:LEU:CD2	2.82	0.40
1:A3:1090:SER:CB	6:D3:799:ILE:O	2.70	0.40
1:A3:1113:GLU:HG2	3:A6:590:SER:N	2.32	0.40
1:A3:1130:ARG:NH2	3:A6:651:GLN:N	1.75	0.40
1:A3:1185:THR:HG22	3:A6:640:LEU:O	2.21	0.40
1:A3:1198:GLU:HB3	3:A6:678:LEU:HD12	1.55	0.40
1:A3:1278:PRO:HB3	3:A6:622:GLY:C	2.42	0.40
1:A3:1393:THR:OG1	3:A6:229:SER:HB3	2.21	0.40
2:A4:83:GLN:C	3:A6:324:ARG:NH1	2.75	0.40
2:A4:90:GLN:HB2	3:A6:407:SER:H	1.85	0.40
2:A4:638:GLU:CB	3:A6:498:ARG:NH1	2.69	0.40
2:A4:705:ILE:HD12	3:A6:483:HIS:N	2.35	0.40
2:A4:853:VAL:HG13	3:A6:128:HIS:HB3	1.38	0.40
2:A4:858:ALA:CB	3:A6:174:PRO:HD2	2.52	0.40
2:A4:859:GLN:CD	3:A6:167:TRP:CE3	2.90	0.40
2:A4:944:SER:OG	3:A6:200:VAL:HB	2.17	0.40
2:A4:1055:ARG:HH21	6:D4:762:ARG:HB3	1.87	0.40
3:A5:186:ILE:C	5:C2:745:SER:CB	2.90	0.40
3:A5:1392:ARG:NH1	28:Z2:867:LYS:CA	2.80	0.40
3:A6:1011:TYR:CZ	3:A6:1019:ARG:HD3	2.57	0.40
6:D1:536:THR:O	6:D1:540:GLU:HB3	2.21	0.40
6:D1:647:SER:HB3	6:D1:648:PRO:HD3	2.02	0.40
6:D1:782:ASP:OD1	6:D1:783:SER:N	2.54	0.40
6:D4:649:VAL:O	6:D4:649:VAL:CG1	2.67	0.40
6:D5:647:SER:HB3	6:D5:648:PRO:HD3	2.03	0.40
6:D5:649:VAL:O	6:D5:649:VAL:CG1	2.68	0.40
8:F1:1065:ARG:O	8:F1:1069:LEU:HG	2.22	0.40
8:F1:1091:SER:O	17:O2:241:SER:HB2	2.17	0.40
8:F2:1544:ALA:N	8:F2:1545:PRO:CD	2.83	0.40
9:G1:263:MET:O	16:N2:411:GLN:CA	2.69	0.40
11:I1:894:VAL:HB	17:O1:236:ASP:HB3	1.29	0.40
11:I1:1051:LYS:HE2	17:O1:289:ASP:HB2	0.77	0.40
11:I1:1059:PRO:HG2	17:O1:275:LEU:HD12	2.04	0.40
11:I1:1182:GLN:NE2	12:J1:245:GLU:CB	2.80	0.40
11:I1:1669:ARG:C	11:I2:1664:PHE:HZ	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:1019:LEU:HD22	16:N3:412:ASN:ND2	2.29	0.40
11:I2:1020:ALA:HB1	16:N3:407:ALA:HA	1.90	0.40
11:I2:1039:ALA:CB	20:R3:170:LEU:CG	0.85	0.40
11:I5:659:LYS:HE2	11:I5:664:LEU:HD21	2.02	0.40
17:O1:142:PHE:O	17:O1:145:ILE:HG22	2.22	0.40
17:O3:151:LEU:HD21	18:P3:325:ILE:HG13	0.59	0.40
17:O3:151:LEU:HD22	18:P3:325:ILE:HG12	0.58	0.40
21:S1:652:VAL:CA	21:S2:1156:ILE:C	2.88	0.40
21:S1:948:LYS:O	21:S1:952:THR:HG22	2.22	0.40
21:S2:531:ARG:O	21:S2:535:GLY:O	2.38	0.40
21:S3:934:HIS:C	21:S3:934:HIS:CD2	2.94	0.40
21:S4:938:LEU:HD23	21:S4:938:LEU:HA	1.99	0.40
22:T2:900:LEU:O	22:T2:904:LEU:HG	2.21	0.40
22:T3:812:ASP:O	22:T3:816:LYS:HG2	2.21	0.40
23:U3:9:THR:HG22	23:U3:9:THR:O	2.22	0.40
23:U3:13:THR:O	23:U3:17:ASP:HB2	2.21	0.40
24:V1:526:HIS:O	24:V1:528:LEU:N	2.55	0.40
24:V3:161:LEU:HD11	25:W3:17:LEU:HG	2.03	0.40
24:V4:292:ILE:H	24:V4:292:ILE:CD1	2.27	0.40
25:W1:181:LEU:HD22	25:W1:199:THR:CG2	2.51	0.40
25:W2:59:VAL:HB	25:W2:70:LEU:HD11	2.03	0.40
25:W2:60:ASP:H	25:W2:70:LEU:CD1	2.33	0.40
25:W2:209:ASP:OD2	25:W2:259:ARG:HD3	2.21	0.40
25:W3:273:GLY:C	25:W3:275:ASP:H	2.25	0.40
25:W4:181:LEU:HD22	25:W4:199:THR:CG2	2.51	0.40
26:X2:434:PHE:CD2	26:X2:458:ARG:HA	2.56	0.40
26:X3:220:ASP:OD2	26:X3:222:GLU:HB3	2.21	0.40
27:Y1:144:ASP:C	27:Y1:146:ARG:H	2.24	0.40
27:Y4:136:LEU:HD12	27:Y4:196:ARG:HH12	1.86	0.40
28:Z2:169:VAL:HG13	28:Z2:228:LEU:HD22	2.04	0.40
28:Z3:349:LEU:HB2	28:Z3:368:VAL:CG2	2.52	0.40
1:A1:879:LEU:HD21	1:A1:908:LEU:CD1	2.52	0.40
1:A1:1201:ARG:HB3	2:A2:735:ALA:N	2.36	0.40
2:A2:985:ALA:HB1	6:D1:500:LYS:CA	2.50	0.40
2:A2:1126:VAL:HG22	3:A5:135:PHE:CG	2.53	0.40
1:A3:1049:PHE:HA	6:D3:816:VAL:HG11	2.02	0.40
1:A3:1239:ALA:HB2	3:A6:584:GLY:HA3	2.03	0.40
1:A3:1257:VAL:HG13	3:A6:618:ALA:O	2.20	0.40
1:A3:1278:PRO:HD2	3:A6:624:ASP:CB	2.49	0.40
1:A3:1392:ARG:N	3:A6:227:SER:CB	2.83	0.40
2:A4:579:PHE:CE2	3:A6:507:ALA:CB	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:614:ALA:HB2	3:A6:507:ALA:HB3	1.98	0.40
2:A4:615:LEU:H	3:A6:509:LYS:H	1.68	0.40
2:A4:616:ALA:CA	3:A6:509:LYS:HB2	2.50	0.40
2:A4:642:ARG:CA	3:A6:501:VAL:HB	2.51	0.40
2:A4:679:TYR:OH	3:A6:511:PHE:HA	2.18	0.40
2:A4:716:ASN:HB3	3:A6:512:GLU:OE2	2.22	0.40
2:A4:722:ASN:OD1	3:A6:578:ILE:HD11	2.19	0.40
2:A4:764:MET:HE1	3:A6:494:PRO:HG3	1.47	0.40
2:A4:765:GLU:O	3:A6:471:PHE:CD2	2.67	0.40
2:A4:817:VAL:HG12	3:A6:147:LEU:O	2.21	0.40
2:A4:859:GLN:CB	3:A6:134:VAL:HB	2.48	0.40
2:A4:980:ARG:CG	6:D3:526:LEU:HB2	2.51	0.40
2:A4:1154:PHE:CB	5:C4:733:LEU:HD13	2.50	0.40
3:A5:1026:PRO:HA	11:I5:68:ILE:HB	1.18	0.40
3:A6:442:ARG:HD2	6:D3:692:LEU:CA	2.50	0.40
3:A6:443:ILE:N	6:D3:691:LEU:HD13	2.13	0.40
3:A6:516:TRP:O	6:D3:683:LYS:HG2	2.22	0.40
6:D4:472:PHE:O	6:D4:476:VAL:HG23	2.21	0.40
6:D5:472:PHE:O	6:D5:476:VAL:HG23	2.21	0.40
8:F1:1264:ARG:CB	17:O2:263:GLN:CA	2.86	0.40
8:F1:1669:GLU:HG2	8:F1:1670:ASN:N	2.36	0.40
9:G1:260:THR:HG23	17:O2:259:ASP:CB	2.42	0.40
11:I1:841:PHE:CG	17:O1:243:LEU:HD13	2.48	0.40
11:I1:958:THR:OG1	16:N1:399:HIS:HA	2.21	0.40
11:I1:992:ILE:HD12	15:M1:608:LYS:HB3	1.31	0.40
11:I2:887:GLN:CG	16:N3:393:ILE:C	2.80	0.40
11:I2:899:LEU:CD2	17:O3:235:ASN:HB2	2.48	0.40
11:I2:917:TYR:CG	15:M3:587:GLU:C	2.94	0.40
11:I2:936:LYS:HA	15:M3:609:GLY:O	2.21	0.40
11:I2:945:LEU:CB	17:O3:260:LEU:N	2.70	0.40
11:I2:1644:ARG:NH2	11:I2:1721:GLU:OE1	2.54	0.40
17:O3:102:LYS:N	18:P3:322:LYS:CD	2.72	0.40
21:S1:652:VAL:C	21:S2:1156:ILE:C	2.73	0.40
21:S1:699:ILE:C	21:S1:701:GLU:H	2.24	0.40
21:S2:176:MET:HE3	21:S2:232:LEU:CD1	2.49	0.40
21:S2:948:LYS:O	21:S2:952:THR:HG22	2.22	0.40
21:S3:321:THR:HG22	21:S3:338:VAL:HG11	2.02	0.40
21:S3:948:LYS:O	21:S3:952:THR:HG22	2.22	0.40
21:S3:997:GLU:O	21:S3:1000:ARG:HB2	2.21	0.40
22:T2:685:ARG:HA	22:T2:685:ARG:HD3	1.93	0.40
22:T4:862:HIS:CE1	22:T4:903:LYS:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:U1:7:TYR:O	23:U1:9:THR:N	2.54	0.40
23:U1:156:CYS:HB2	24:V1:351:ILE:HG12	2.03	0.40
23:U1:294:LEU:O	23:U1:298:ILE:HD12	2.22	0.40
23:U2:9:THR:HG22	23:U2:9:THR:O	2.22	0.40
23:U3:363:VAL:HG11	23:U3:408:ASP:OD1	2.21	0.40
24:V2:153:LYS:HG2	25:W2:261:SER:HB2	2.03	0.40
24:V2:375:GLU:C	24:V2:377:GLU:H	2.24	0.40
24:V4:153:LYS:HG2	25:W4:261:SER:HB2	2.03	0.40
24:V4:492:LEU:HD11	24:V4:508:ILE:HG23	2.04	0.40
25:W2:140:ILE:HG22	25:W2:141:ILE:N	2.37	0.40
25:W3:233:ILE:HD11	25:W3:248:LEU:HD13	2.03	0.40
25:W4:74:SER:OG	25:W4:75:TYR:N	2.55	0.40
26:X2:246:TRP:CD1	26:X2:331:TYR:CD2	3.09	0.40
26:X3:141:ASN:C	26:X3:145:ASN:ND2	2.74	0.40
27:Y1:175:PRO:HD3	27:Y1:220:TRP:HB3	2.02	0.40
27:Y4:175:PRO:HD3	27:Y4:220:TRP:HB3	2.02	0.40
28:Z4:349:LEU:HB2	28:Z4:368:VAL:CG2	2.52	0.40
1:A1:1052:THR:CA	6:D1:812:VAL:HG11	2.51	0.40
2:A2:864:ARG:O	6:D1:608:ILE:CD1	2.59	0.40
2:A2:970:PHE:H	6:D1:196:ILE:CD1	2.01	0.40
1:A3:1204:TRP:HA	2:A4:672:ARG:HD2	2.02	0.40
1:A3:1227:PRO:CB	3:A6:551:GLN:HB2	2.52	0.40
1:A3:1268:ASP:CG	3:A6:553:ASP:O	2.59	0.40
1:A3:1278:PRO:CG	3:A6:624:ASP:CG	2.52	0.40
1:A3:1325:MET:HE1	3:A6:126:ARG:HG2	0.81	0.40
2:A4:87:GLN:HB3	3:A6:407:SER:HB2	1.56	0.40
2:A4:90:GLN:N	3:A6:406:LEU:CA	2.73	0.40
2:A4:574:ARG:HG2	3:A6:455:LEU:HB3	1.65	0.40
2:A4:575:LEU:HG	2:A4:605:TYR:CE1	2.57	0.40
2:A4:613:ALA:O	3:A6:509:LYS:CD	2.69	0.40
2:A4:621:GLN:HE22	3:A6:110:TYR:HD2	1.56	0.40
2:A4:715:GLU:CB	3:A6:515:THR:N	2.85	0.40
2:A4:719:ARG:HD2	3:A6:111:GLU:H	1.50	0.40
2:A4:865:ALA:CB	6:D3:567:LEU:CD1	2.98	0.40
2:A4:870:HIS:CB	6:D3:548:LEU:HA	2.39	0.40
2:A4:897:ASN:ND2	3:A6:165:PHE:HB2	2.29	0.40
2:A4:907:SER:HB2	6:D3:601:PHE:O	2.22	0.40
2:A4:1151:THR:HA	5:C4:733:LEU:CB	2.51	0.40
3:A5:996:ASN:OD1	11:I5:54:LYS:O	2.39	0.40
3:A5:1374:ALA:H	28:Z2:824:PHE:CA	2.28	0.40
3:A6:943:ASP:OD1	3:A6:944:SER:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D1:565:MET:HE3	6:D1:565:MET:HB3	1.96	0.40
6:D2:782:ASP:OD1	6:D2:783:SER:N	2.54	0.40
6:D4:606:LYS:N	6:D4:607:PRO:HD2	2.36	0.40
6:D7:245:ARG:HG3	6:D7:503:LEU:HD21	2.03	0.40
8:F1:1776:THR:O	8:F1:1776:THR:HG23	2.20	0.40
8:F2:462:SER:N	8:F2:463:PRO:CD	2.84	0.40
8:F2:1669:GLU:HG2	8:F2:1670:ASN:N	2.36	0.40
11:I1:860:LEU:HD23	17:O1:258:GLU:HB3	2.03	0.40
11:I1:884:LEU:CD2	15:M1:595:MET:SD	3.05	0.40
11:I1:978:LYS:O	15:M1:621:ARG:NH1	2.55	0.40
11:I1:1059:PRO:CD	17:O1:277:GLU:HB2	2.48	0.40
11:I1:1636:TYR:CZ	11:I2:1674:HIS:NE2	2.89	0.40
11:I2:950:LEU:CG	16:N3:406:HIS:CD2	3.05	0.40
11:I2:951:LYS:CD	16:N3:404:GLU:HB2	2.38	0.40
11:I2:956:ILE:HG21	15:M3:600:ASN:N	2.37	0.40
11:I2:1065:SER:HA	17:O3:274:GLY:HA3	2.03	0.40
11:I2:1106:LYS:CD	16:N3:440:GLU:OE2	2.69	0.40
11:I3:1276:GLN:C	26:X1:522:MET:SD	3.00	0.40
11:I4:1277:LEU:CG	26:X3:517:ASP:HB2	2.31	0.40
11:I5:629:VAL:HG23	11:I5:630:ASP:N	2.37	0.40
17:O3:142:PHE:O	17:O3:145:ILE:HG22	2.22	0.40
17:O4:111:TYR:OH	18:P4:321:ILE:HG12	2.21	0.40
21:S1:1149:GLU:C	21:S1:1151:TYR:H	2.24	0.40
21:S2:209:TYR:HA	21:S2:224:SER:HA	2.03	0.40
21:S2:931:ALA:HA	21:S2:935:LEU:HB2	2.03	0.40
21:S2:1036:ILE:HG13	21:S2:1048:PHE:HE2	1.86	0.40
21:S3:408:THR:HG23	21:S3:410:PRO:HD3	2.03	0.40
21:S4:96:LEU:HD12	21:S4:96:LEU:HA	1.86	0.40
22:T3:675:ILE:HD13	22:T3:675:ILE:HA	1.87	0.40
22:T3:911:LEU:HD22	22:T3:916:LEU:HD12	2.04	0.40
23:U2:425:LEU:HD23	23:U2:425:LEU:HA	1.90	0.40
23:U4:363:VAL:HG11	23:U4:408:ASP:OD1	2.21	0.40
24:V2:526:HIS:O	24:V2:528:LEU:N	2.55	0.40
24:V4:375:GLU:C	24:V4:377:GLU:H	2.24	0.40
25:W1:14:ASP:OD1	25:W1:15:ALA:N	2.54	0.40
25:W1:78:LYS:HA	25:W1:96:ALA:HB2	2.03	0.40
25:W1:191:ALA:C	25:W1:193:THR:H	2.23	0.40
25:W2:48:THR:O	25:W2:49:LEU:HD23	2.21	0.40
25:W4:23:ARG:NH1	25:W4:84:GLU:OE1	2.54	0.40
25:W4:48:THR:O	25:W4:49:LEU:HD23	2.21	0.40
26:X1:240:PHE:CD1	26:X1:268:SER:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X1:373:GLU:O	26:X1:377:MET:HG3	2.21	0.40
26:X2:77:GLN:HE21	26:X2:77:GLN:HB2	1.74	0.40
26:X3:240:PHE:CD1	26:X3:268:SER:HB3	2.56	0.40
26:X4:434:PHE:CD2	26:X4:458:ARG:HA	2.56	0.40
26:X4:531:LEU:HB3	26:X4:534:ILE:CG1	2.51	0.40
27:Y4:119:ALA:C	27:Y4:121:LEU:H	2.25	0.40
28:Z1:457:PHE:HA	28:Z1:477:GLN:HB2	2.04	0.40
28:Z2:117:LEU:HD23	28:Z2:117:LEU:HA	1.90	0.40
28:Z4:165:PHE:HB3	28:Z4:177:PHE:HB2	2.04	0.40
2:A2:862:LEU:N	6:D1:606:LYS:CD	2.81	0.40
2:A2:873:PRO:CA	6:D1:563:GLU:HB3	2.50	0.40
2:A2:1137:ALA:HB1	3:A5:564:ASN:CA	2.42	0.40
1:A3:1195:PHE:CD2	3:A6:678:LEU:HB3	2.56	0.40
1:A3:1201:ARG:CB	2:A4:735:ALA:CA	2.91	0.40
1:A3:1220:PRO:HG2	2:A4:672:ARG:HE	1.86	0.40
1:A3:1277:TRP:CH2	3:A6:621:GLN:HB3	2.56	0.40
2:A4:717:VAL:HG21	3:A6:476:PHE:CD2	2.57	0.40
2:A4:717:VAL:CG1	3:A6:476:PHE:HB3	2.50	0.40
2:A4:763:LEU:HD12	3:A6:470:ARG:O	2.21	0.40
2:A4:790:ASP:OD2	3:A6:186:ILE:HG22	2.21	0.40
2:A4:802:TYR:HH	3:A6:467:LEU:N	2.14	0.40
2:A4:864:ARG:HG2	6:D3:609:ILE:HG12	2.02	0.40
2:A4:988:ARG:HH21	6:D3:500:LYS:N	2.17	0.40
2:A4:989:MSE:HG3	6:D3:500:LYS:HB3	2.04	0.40
3:A5:189:VAL:CG2	5:C2:742:ASP:HB2	2.51	0.40
3:A5:1405:LEU:N	28:Z2:918:PHE:CA	2.73	0.40
3:A6:1139:ILE:HD11	5:C6:743:LEU:HD11	2.02	0.40
6:D2:536:THR:O	6:D2:540:GLU:HB3	2.22	0.40
6:D2:606:LYS:N	6:D2:607:PRO:HD2	2.36	0.40
6:D5:423:PHE:O	6:D5:424:ASP:C	2.60	0.40
6:D6:423:PHE:O	6:D6:424:ASP:C	2.60	0.40
6:D6:691:LEU:HD11	6:D6:717:LEU:HD23	2.03	0.40
6:D7:334:ALA:O	6:D7:338:VAL:HG23	2.22	0.40
8:F2:701:GLU:OE2	8:F2:701:GLU:N	2.53	0.40
11:I1:423:MET:HE2	11:I1:426:LEU:HD12	2.03	0.40
11:I1:841:PHE:C	15:M1:588:MET:HA	2.39	0.40
11:I1:880:MET:CG	17:O1:247:TRP:CE3	3.04	0.40
11:I1:889:THR:N	17:O1:242:ARG:NE	2.69	0.40
11:I1:939:ASN:CA	17:O1:264:ILE:C	2.89	0.40
11:I1:940:LEU:CD1	17:O1:258:GLU:CB	3.00	0.40
11:I1:966:TRP:CA	20:R1:154:ALA:HB2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:1013:GLU:HA	16:N1:411:GLN:HE22	1.86	0.40
11:I1:1036:PRO:HD3	16:N1:441:PHE:CE2	2.56	0.40
11:I1:1067:PHE:HB3	16:N1:432:TYR:H	1.86	0.40
11:I1:1607:GLN:CD	11:I2:1735:PHE:O	2.53	0.40
11:I2:920:PHE:CZ	17:O3:247:TRP:CE3	2.80	0.40
11:I2:949:CYS:SG	15:M3:602:MET:HE3	2.43	0.40
11:I2:967:SER:OG	15:M3:625:GLY:N	2.50	0.40
11:I2:1045:PHE:HE1	17:O3:279:ILE:CG2	2.27	0.40
11:I3:814:SER:O	26:X1:496:THR:CG2	2.67	0.40
11:I3:1276:GLN:HB2	26:X1:522:MET:HE1	2.03	0.40
11:I4:1182:GLN:NE2	12:J4:245:GLU:CB	2.80	0.40
11:I4:1644:ARG:NH2	11:I4:1721:GLU:OE1	2.54	0.40
21:S1:953:LEU:HD13	21:S1:973:LEU:HB3	2.03	0.40
21:S2:1002:LEU:O	21:S2:1004:HIS:N	2.55	0.40
21:S3:686:ALA:CB	21:S4:1153:GLN:HA	2.48	0.40
21:S3:965:ALA:HB2	21:S3:1021:SER:HB2	2.02	0.40
21:S4:433:GLY:HA2	21:S4:436:SER:OG	2.22	0.40
21:S4:953:LEU:HD13	21:S4:973:LEU:HB3	2.03	0.40
22:T1:812:ASP:O	22:T1:816:LYS:HG2	2.21	0.40
22:T2:785:LYS:O	22:T2:789:GLU:HG3	2.21	0.40
22:T4:703:LYS:HE2	22:T4:856:MET:SD	2.61	0.40
23:U2:363:VAL:HG11	23:U2:408:ASP:OD1	2.21	0.40
24:V1:373:LEU:HB3	24:V1:376:LEU:HD12	2.02	0.40
24:V4:312:ILE:HD13	24:V4:312:ILE:HA	1.96	0.40
24:V4:417:ASP:O	24:V4:421:VAL:HG23	2.22	0.40
25:W2:78:LYS:HA	25:W2:96:ALA:HB2	2.03	0.40
25:W4:59:VAL:HB	25:W4:70:LEU:HD11	2.03	0.40
25:W4:140:ILE:HG22	25:W4:141:ILE:N	2.37	0.40
26:X1:105:SER:HB2	26:X1:481:LEU:HD21	2.04	0.40
26:X2:295:TYR:HA	26:X2:296:PRO:HD3	1.89	0.40
26:X4:240:PHE:CD1	26:X4:268:SER:HB3	2.56	0.40
27:Y1:79:LYS:HG2	27:Y1:109:GLY:C	2.41	0.40
27:Y3:77:TYR:HD1	27:Y3:110:SER:HB3	1.86	0.40
27:Y4:79:LYS:HG2	27:Y4:109:GLY:C	2.41	0.40
28:Z1:382:VAL:HG21	28:Z1:495:TYR:CD1	2.57	0.40
28:Z3:72:PHE:HD1	28:Z3:72:PHE:HA	1.75	0.40
28:Z3:354:LEU:HD21	28:Z3:460:ALA:HB1	2.04	0.40
28:Z3:683:SER:OG	28:Z3:686:PHE:HB2	2.22	0.40
28:Z4:167:PHE:O	28:Z4:174:SER:HB2	2.21	0.40

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%)	11	46
2	A4	1255/1328 (94%)	1182 (94%)	55 (4%)	18 (1%)	11	46
3	A5	1258/1330 (95%)	1224 (97%)	34 (3%)	0	100	100
3	A6	1258/1330 (95%)	1224 (97%)	34 (3%)	0	100	100
4	B1	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B2	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B3	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B4	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B5	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B6	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
5	C1	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C2	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C3	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C4	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C5	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C6	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
6	D1	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D2	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D3	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D4	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D5	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D6	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D7	615/644 (96%)	604 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	E1	6/8 (75%)	6 (100%)	0	0	100	100
7	E2	6/8 (75%)	6 (100%)	0	0	100	100
7	E3	6/8 (75%)	6 (100%)	0	0	100	100
7	E4	6/8 (75%)	6 (100%)	0	0	100	100
7	E5	6/8 (75%)	6 (100%)	0	0	100	100
7	E6	6/8 (75%)	6 (100%)	0	0	100	100
7	E7	6/8 (75%)	6 (100%)	0	0	100	100
8	F1	1611/1858 (87%)	1589 (99%)	22 (1%)	0	100	100
8	F2	1611/1858 (87%)	1589 (99%)	22 (1%)	0	100	100
9	G1	51/53 (96%)	51 (100%)	0	0	100	100
9	G2	51/53 (96%)	51 (100%)	0	0	100	100
10	H1	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
10	H2	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
11	I1	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I2	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I3	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I4	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I5	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
12	J1	61/63 (97%)	61 (100%)	0	0	100	100
12	J2	61/63 (97%)	61 (100%)	0	0	100	100
12	J3	61/63 (97%)	61 (100%)	0	0	100	100
12	J4	61/63 (97%)	61 (100%)	0	0	100	100
12	J5	61/63 (97%)	61 (100%)	0	0	100	100
13	K1	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K2	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K3	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K4	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K5	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
15	M1	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M2	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M3	165/183 (90%)	158 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	M4	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
16	N1	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N2	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N3	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N4	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
17	O1	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
17	O2	239/241 (99%)	212 (89%)	27 (11%)	0	100	100
17	O3	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
17	O4	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
18	P1	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P2	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P3	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
18	P4	115/116 (99%)	114 (99%)	1 (1%)	0	100	100
19	Q1	83/84 (99%)	81 (98%)	2 (2%)	0	100	100
19	Q2	79/84 (94%)	77 (98%)	2 (2%)	0	100	100
19	Q3	83/84 (99%)	81 (98%)	2 (2%)	0	100	100
19	Q4	79/84 (94%)	77 (98%)	2 (2%)	0	100	100
20	R1	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R2	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R3	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
20	R4	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
21	S1	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	8	40
21	S2	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	8	40
21	S3	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	8	40
21	S4	874/1156 (76%)	784 (90%)	74 (8%)	16 (2%)	8	40
22	T1	243/258 (94%)	235 (97%)	8 (3%)	0	100	100
22	T2	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
22	T3	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
22	T4	243/258 (94%)	234 (96%)	9 (4%)	0	100	100
23	U1	410/436 (94%)	365 (89%)	34 (8%)	11 (3%)	5	31
23	U2	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	5	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	U3	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	5	31
23	U4	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	5	31
24	V1	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
24	V2	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
24	V3	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
24	V4	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
25	W1	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
25	W2	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
25	W3	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
25	W4	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
26	X1	592/698 (85%)	531 (90%)	51 (9%)	10 (2%)	9	42
26	X2	592/698 (85%)	531 (90%)	51 (9%)	10 (2%)	9	42
26	X3	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	9	42
26	X4	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	9	42
27	Y1	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
27	Y2	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
27	Y3	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
27	Y4	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
28	Z1	858/1037 (83%)	798 (93%)	50 (6%)	10 (1%)	13	50
28	Z2	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	12	48
28	Z3	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	12	48
28	Z4	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	12	48
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%)	41	77
30	b2	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	41	77
30	b3	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	41	77
30	b4	335/385 (87%)	315 (94%)	19 (6%)	1 (0%)	41	77
31	c1	736/750 (98%)	727 (99%)	9 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	c2	736/750 (98%)	727 (99%)	9 (1%)	0	100	100
31	c3	736/750 (98%)	727 (99%)	9 (1%)	0	100	100
31	c4	736/750 (98%)	727 (99%)	9 (1%)	0	100	100
31	c5	736/750 (98%)	727 (99%)	9 (1%)	0	100	100
32	g	419/421 (100%)	404 (96%)	14 (3%)	1 (0%)	47	81
33	h	230/232 (99%)	217 (94%)	10 (4%)	3 (1%)	12	48
34	i	408/481 (85%)	401 (98%)	7 (2%)	0	100	100
35	j	149/150 (99%)	144 (97%)	4 (3%)	1 (1%)	22	63
36	k1	83/85 (98%)	79 (95%)	4 (5%)	0	100	100
37	k2	35/37 (95%)	35 (100%)	0	0	100	100
All	All	50288/56810 (88%)	47822 (95%)	2142 (4%)	324 (1%)	29	66

All (324) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A2	521	ASN
2	A2	1024	ASP
2	A2	1305	ALA
2	A2	1342	SER
2	A2	1345	SER
2	A4	521	ASN
2	A4	1024	ASP
2	A4	1305	ALA
2	A4	1342	SER
2	A4	1345	SER
21	S1	619	GLY
21	S1	623	ARG
21	S1	627	PHE
21	S1	679	ILE
21	S1	680	PRO
21	S1	685	PRO
21	S1	867	CYS
21	S1	869	PHE
21	S1	933	GLU
21	S2	619	GLY
21	S2	623	ARG
21	S2	627	PHE
21	S2	679	ILE

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Mol	Chain	Res	Type
21	S2	680	PRO
21	S2	685	PRO
21	S2	867	CYS
21	S2	869	PHE
21	S2	933	GLU
21	S3	619	GLY
21	S3	623	ARG
21	S3	627	PHE
21	S3	679	ILE
21	S3	680	PRO
21	S3	685	PRO
21	S3	867	CYS
21	S3	869	PHE
21	S3	933	GLU
21	S4	619	GLY
21	S4	623	ARG
21	S4	627	PHE
21	S4	680	PRO
21	S4	685	PRO
21	S4	867	CYS
21	S4	869	PHE
21	S4	933	GLU
23	U1	9	THR
23	U1	11	ARG
23	U1	138	ASN
23	U1	165	ASN
23	U2	9	THR
23	U2	11	ARG
23	U2	138	ASN
23	U2	165	ASN
23	U3	9	THR
23	U3	11	ARG
23	U3	138	ASN
23	U3	165	ASN
23	U4	9	THR
23	U4	11	ARG
23	U4	138	ASN
23	U4	165	ASN
24	V1	158	SER
24	V1	368	GLU
24	V1	371	PHE
24	V1	394	GLN

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Mol	Chain	Res	Type
24	V2	158	SER
24	V2	368	GLU
24	V2	371	PHE
24	V2	394	GLN
24	V3	158	SER
24	V3	368	GLU
24	V3	371	PHE
24	V3	394	GLN
24	V4	158	SER
24	V4	368	GLU
24	V4	371	PHE
24	V4	394	GLN
26	X1	272	PRO
26	X1	403	HIS
26	X1	455	PHE
26	X2	272	PRO
26	X2	403	HIS
26	X2	455	PHE
26	X3	272	PRO
26	X3	403	HIS
26	X3	455	PHE
26	X4	272	PRO
26	X4	403	HIS
26	X4	455	PHE
27	Y1	43	SER
27	Y2	43	SER
27	Y3	43	SER
27	Y4	43	SER
2	A2	697	SER
2	A2	1038	THR
2	A2	1244	LEU
2	A2	1350	VAL
2	A4	697	SER
2	A4	1038	THR
2	A4	1244	LEU
2	A4	1350	VAL
21	S1	629	VAL
21	S1	1003	LEU
21	S2	629	VAL
21	S2	1003	LEU
21	S3	629	VAL
21	S3	1003	LEU

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Mol	Chain	Res	Type
21	S4	629	VAL
21	S4	679	ILE
21	S4	1003	LEU
23	U1	8	GLN
23	U1	55	ASN
23	U1	141	THR
23	U1	354	SER
23	U2	8	GLN
23	U2	55	ASN
23	U2	141	THR
23	U2	354	SER
23	U3	8	GLN
23	U3	55	ASN
23	U3	141	THR
23	U3	354	SER
23	U4	8	GLN
23	U4	55	ASN
23	U4	141	THR
23	U4	354	SER
24	V1	180	LEU
24	V1	348	GLY
24	V1	429	ASN
24	V1	527	ILE
24	V2	180	LEU
24	V2	348	GLY
24	V2	429	ASN
24	V2	527	ILE
24	V3	180	LEU
24	V3	348	GLY
24	V3	429	ASN
24	V3	527	ILE
24	V4	180	LEU
24	V4	348	GLY
24	V4	429	ASN
24	V4	527	ILE
25	W1	218	LEU
25	W2	218	LEU
25	W3	218	LEU
25	W4	218	LEU
26	X1	62	GLY
26	X1	239	VAL
26	X2	62	GLY

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Mol	Chain	Res	Type
26	X2	239	VAL
26	X3	62	GLY
26	X3	239	VAL
26	X4	62	GLY
26	X4	239	VAL
27	Y1	162	ALA
27	Y1	302	ASP
27	Y2	162	ALA
27	Y2	302	ASP
27	Y3	162	ALA
27	Y3	302	ASP
27	Y4	162	ALA
27	Y4	302	ASP
28	Z1	113	VAL
28	Z1	598	LYS
28	Z1	602	ILE
28	Z2	113	VAL
28	Z2	598	LYS
28	Z2	602	ILE
28	Z3	113	VAL
28	Z3	598	LYS
28	Z3	602	ILE
28	Z4	113	VAL
28	Z4	598	LYS
28	Z4	602	ILE
30	b1	50	THR
30	b2	50	THR
30	b3	50	THR
30	b4	50	THR
32	g	334	ASP
33	h	90	SER
2	A2	520	GLU
2	A2	790	ASP
2	A2	1339	ALA
2	A4	520	GLU
2	A4	790	ASP
2	A4	1339	ALA
21	S1	101	VAL
21	S1	628	PRO
21	S1	828	ASN
21	S2	101	VAL
21	S2	628	PRO

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Mol	Chain	Res	Type
21	S2	828	ASN
21	S3	101	VAL
21	S3	628	PRO
21	S3	828	ASN
21	S4	101	VAL
21	S4	628	PRO
21	S4	828	ASN
23	U1	434	THR
23	U2	434	THR
23	U2	440	ASP
23	U3	434	THR
23	U3	440	ASP
23	U4	434	THR
23	U4	440	ASP
26	X1	404	SER
26	X2	404	SER
26	X3	404	SER
26	X4	404	SER
27	Y1	120	HIS
27	Y2	120	HIS
27	Y3	120	HIS
27	Y4	120	HIS
28	Z1	264	ASP
28	Z2	264	ASP
28	Z3	264	ASP
28	Z4	264	ASP
33	h	227	LYS
2	A2	226	PRO
2	A2	292	HIS
2	A2	699	SER
2	A2	1220	PRO
2	A2	1347	SER
2	A4	226	PRO
2	A4	292	HIS
2	A4	699	SER
2	A4	1220	PRO
2	A4	1347	SER
23	U1	87	ALA
23	U1	440	ASP
23	U2	87	ALA
23	U3	87	ALA
23	U4	87	ALA

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Mol	Chain	Res	Type
24	V1	531	LEU
24	V2	531	LEU
24	V3	531	LEU
24	V4	531	LEU
27	Y1	213	SER
27	Y2	213	SER
27	Y3	213	SER
27	Y4	213	SER
28	Z1	284	ASN
28	Z1	346	ALA
28	Z2	284	ASN
28	Z2	346	ALA
28	Z3	284	ASN
28	Z3	346	ALA
28	Z4	284	ASN
28	Z4	346	ALA
2	A2	1025	SER
2	A4	1025	SER
21	S1	1128	ALA
21	S2	1128	ALA
21	S3	1128	ALA
21	S4	1128	ALA
25	W1	114	PRO
25	W1	131	LYS
25	W2	114	PRO
25	W2	131	LYS
25	W2	247	LEU
25	W3	114	PRO
25	W3	131	LYS
25	W4	114	PRO
25	W4	131	LYS
25	W4	247	LEU
26	X1	53	VAL
26	X1	200	ASN
26	X1	364	TYR
26	X2	53	VAL
26	X2	200	ASN
26	X2	364	TYR
26	X3	53	VAL
26	X3	200	ASN
26	X3	364	TYR
26	X4	53	VAL

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Mol	Chain	Res	Type
26	X4	200	ASN
26	X4	364	TYR
28	Z1	190	ASP
28	Z1	600	ASP
28	Z2	600	ASP
28	Z3	190	ASP
28	Z3	600	ASP
28	Z4	190	ASP
28	Z4	600	ASP
33	h	187	LYS
35	j	785	TYR
25	W1	247	LEU
25	W3	247	LEU
27	Y1	188	LEU
27	Y2	188	LEU
27	Y3	188	LEU
27	Y4	188	LEU
28	Z1	231	GLU
28	Z2	190	ASP
28	Z2	231	GLU
28	Z2	500	GLU
28	Z3	231	GLU
28	Z3	500	GLU
28	Z4	231	GLU
28	Z4	500	GLU
24	V1	393	GLY
24	V3	393	GLY
28	Z1	737	ILE
28	Z2	737	ILE
28	Z3	737	ILE
28	Z4	737	ILE
24	V2	393	GLY
24	V4	393	GLY
25	W1	202	GLY
25	W2	202	GLY
25	W3	202	GLY
25	W4	202	GLY
26	X1	191	ILE
26	X2	191	ILE
26	X3	191	ILE
26	X4	191	ILE
25	W1	97	VAL

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Mol	Chain	Res	Type
25	W2	97	VAL
25	W3	97	VAL
25	W4	97	VAL
21	S1	573	PRO
21	S2	573	PRO
21	S3	573	PRO
21	S4	573	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A1	1061/1111 (96%)	1053 (99%)	8 (1%)	81	89
1	A3	1061/1111 (96%)	1053 (99%)	8 (1%)	81	89
2	A2	1073/1107 (97%)	991 (92%)	82 (8%)	13	37
2	A4	1073/1107 (97%)	991 (92%)	82 (8%)	13	37
3	A5	1087/1111 (98%)	1076 (99%)	11 (1%)	76	86
3	A6	1087/1111 (98%)	1076 (99%)	11 (1%)	76	86
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%)	19 (100%)	0	100	100
5	C3	17/19 (90%)	17 (100%)	0	100	100
5	C4	19/19 (100%)	19 (100%)	0	100	100
5	C5	17/19 (90%)	17 (100%)	0	100	100
5	C6	17/19 (90%)	17 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	D1	554/575 (96%)	554 (100%)	0	100	100
6	D2	554/575 (96%)	554 (100%)	0	100	100
6	D3	554/575 (96%)	554 (100%)	0	100	100
6	D4	554/575 (96%)	554 (100%)	0	100	100
6	D5	554/575 (96%)	554 (100%)	0	100	100
6	D6	554/575 (96%)	554 (100%)	0	100	100
6	D7	554/575 (96%)	554 (100%)	0	100	100
7	E1	7/7 (100%)	7 (100%)	0	100	100
7	E2	7/7 (100%)	7 (100%)	0	100	100
7	E3	7/7 (100%)	7 (100%)	0	100	100
7	E4	7/7 (100%)	7 (100%)	0	100	100
7	E5	7/7 (100%)	7 (100%)	0	100	100
7	E6	7/7 (100%)	7 (100%)	0	100	100
7	E7	7/7 (100%)	7 (100%)	0	100	100
8	F1	1350/1512 (89%)	1350 (100%)	0	100	100
8	F2	1350/1512 (89%)	1350 (100%)	0	100	100
9	G1	47/47 (100%)	47 (100%)	0	100	100
9	G2	47/47 (100%)	47 (100%)	0	100	100
10	H1	10/10 (100%)	10 (100%)	0	100	100
10	H2	10/10 (100%)	10 (100%)	0	100	100
11	I1	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
11	I2	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
11	I3	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
11	I4	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
11	I5	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
12	J1	54/54 (100%)	54 (100%)	0	100	100
12	J2	54/54 (100%)	54 (100%)	0	100	100
12	J3	54/54 (100%)	54 (100%)	0	100	100
12	J4	54/54 (100%)	54 (100%)	0	100	100
12	J5	54/54 (100%)	54 (100%)	0	100	100
13	K1	9/9 (100%)	9 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	K2	9/9 (100%)	9 (100%)	0	100	100
13	K3	9/9 (100%)	9 (100%)	0	100	100
13	K4	9/9 (100%)	9 (100%)	0	100	100
13	K5	9/9 (100%)	9 (100%)	0	100	100
14	L1	1/1 (100%)	1 (100%)	0	100	100
14	L2	1/1 (100%)	1 (100%)	0	100	100
14	L3	1/1 (100%)	1 (100%)	0	100	100
14	L4	1/1 (100%)	1 (100%)	0	100	100
14	L5	1/1 (100%)	1 (100%)	0	100	100
15	M1	146/154 (95%)	146 (100%)	0	100	100
15	M2	146/154 (95%)	146 (100%)	0	100	100
15	M3	146/154 (95%)	146 (100%)	0	100	100
15	M4	146/154 (95%)	146 (100%)	0	100	100
16	N1	150/173 (87%)	150 (100%)	0	100	100
16	N2	150/173 (87%)	150 (100%)	0	100	100
16	N3	150/173 (87%)	150 (100%)	0	100	100
16	N4	150/173 (87%)	150 (100%)	0	100	100
17	O1	213/213 (100%)	213 (100%)	0	100	100
17	O2	213/213 (100%)	213 (100%)	0	100	100
17	O3	213/213 (100%)	213 (100%)	0	100	100
17	O4	213/213 (100%)	213 (100%)	0	100	100
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%)	20	45
19	Q2	63/69 (91%)	62 (98%)	1 (2%)	62	79
19	Q3	70/69 (101%)	66 (94%)	4 (6%)	20	45
19	Q4	63/69 (91%)	62 (98%)	1 (2%)	62	79
20	R1	32/32 (100%)	32 (100%)	0	100	100
20	R2	32/32 (100%)	32 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	R3	32/32 (100%)	32 (100%)	0	100	100
20	R4	32/32 (100%)	32 (100%)	0	100	100
21	S1	488/1013 (48%)	463 (95%)	25 (5%)	24	48
21	S2	488/1013 (48%)	463 (95%)	25 (5%)	24	48
21	S3	488/1013 (48%)	463 (95%)	25 (5%)	24	48
21	S4	488/1013 (48%)	463 (95%)	25 (5%)	24	48
22	T1	211/231 (91%)	206 (98%)	5 (2%)	49	69
22	T2	211/231 (91%)	206 (98%)	5 (2%)	49	69
22	T3	211/231 (91%)	206 (98%)	5 (2%)	49	69
22	T4	211/231 (91%)	206 (98%)	5 (2%)	49	69
23	U1	386/402 (96%)	366 (95%)	20 (5%)	23	48
23	U2	387/402 (96%)	367 (95%)	20 (5%)	23	48
23	U3	387/402 (96%)	367 (95%)	20 (5%)	23	48
23	U4	387/402 (96%)	367 (95%)	20 (5%)	23	48
24	V1	367/567 (65%)	332 (90%)	35 (10%)	8	27
24	V2	367/567 (65%)	332 (90%)	35 (10%)	8	27
24	V3	367/567 (65%)	332 (90%)	35 (10%)	8	27
24	V4	367/567 (65%)	332 (90%)	35 (10%)	8	27
25	W1	233/243 (96%)	224 (96%)	9 (4%)	32	56
25	W2	233/243 (96%)	224 (96%)	9 (4%)	32	56
25	W3	233/243 (96%)	223 (96%)	10 (4%)	29	53
25	W4	233/243 (96%)	224 (96%)	9 (4%)	32	56
26	X1	424/628 (68%)	414 (98%)	10 (2%)	49	69
26	X2	424/628 (68%)	414 (98%)	10 (2%)	49	69
26	X3	424/628 (68%)	414 (98%)	10 (2%)	49	69
26	X4	424/628 (68%)	414 (98%)	10 (2%)	49	69
27	Y1	269/303 (89%)	261 (97%)	8 (3%)	41	63
27	Y2	269/303 (89%)	261 (97%)	8 (3%)	41	63
27	Y3	269/303 (89%)	261 (97%)	8 (3%)	41	63
27	Y4	269/303 (89%)	261 (97%)	8 (3%)	41	63
28	Z1	639/972 (66%)	616 (96%)	23 (4%)	35	59

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	Z2	639/972 (66%)	616 (96%)	23 (4%)	35	59
28	Z3	639/972 (66%)	616 (96%)	23 (4%)	35	59
28	Z4	639/972 (66%)	616 (96%)	23 (4%)	35	59
29	a1	293/335 (88%)	288 (98%)	5 (2%)	60	78
29	a2	293/335 (88%)	288 (98%)	5 (2%)	60	78
29	a3	293/335 (88%)	288 (98%)	5 (2%)	60	78
29	a4	293/335 (88%)	288 (98%)	5 (2%)	60	78
30	b1	299/337 (89%)	278 (93%)	21 (7%)	15	40
30	b2	299/337 (89%)	278 (93%)	21 (7%)	15	40
30	b3	299/337 (89%)	278 (93%)	21 (7%)	15	40
30	b4	299/337 (89%)	278 (93%)	21 (7%)	15	40
31	c1	663/670 (99%)	662 (100%)	1 (0%)	93	96
31	c2	663/670 (99%)	662 (100%)	1 (0%)	93	96
31	c3	663/670 (99%)	662 (100%)	1 (0%)	93	96
31	c4	663/670 (99%)	662 (100%)	1 (0%)	93	96
31	c5	663/670 (99%)	662 (100%)	1 (0%)	93	96
32	g	373/373 (100%)	355 (95%)	18 (5%)	25	51
33	h	206/206 (100%)	196 (95%)	10 (5%)	25	50
34	i	372/425 (88%)	371 (100%)	1 (0%)	92	95
35	j	132/131 (101%)	132 (100%)	0	100	100
36	k1	82/82 (100%)	71 (87%)	11 (13%)	4	17
37	k2	33/33 (100%)	32 (97%)	1 (3%)	41	63
All	All	42167/49609 (85%)	41259 (98%)	908 (2%)	56	71

All (908) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	316	ARG
1	A1	422	LEU
1	A1	779	ASP
1	A1	790	ASP
1	A1	862	LEU
1	A1	976	LEU
1	A1	983	LEU

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Mol	Chain	Res	Type
1	A1	1116	HIS
2	A2	83	GLN
2	A2	91	LEU
2	A2	113	GLN
2	A2	123	HIS
2	A2	204	THR
2	A2	229	SER
2	A2	232	LEU
2	A2	240	SER
2	A2	242	HIS
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	481	ARG
2	A2	489	LEU
2	A2	498	ARG
2	A2	500	LYS
2	A2	508	LEU
2	A2	519	LEU
2	A2	520	GLU
2	A2	521	ASN
2	A2	530	LEU
2	A2	575	LEU
2	A2	623	SER
2	A2	634	ASP
2	A2	654	LEU
2	A2	676	LEU
2	A2	678	LEU
2	A2	687	LEU

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Mol	Chain	Res	Type
2	A2	704	THR
2	A2	719	ARG
2	A2	720	LEU
2	A2	725	GLU
2	A2	730	THR
2	A2	731	ILE
2	A2	760	LEU
2	A2	772	SER
2	A2	781	ARG
2	A2	795	GLN
2	A2	798	LYS
2	A2	800	LEU
2	A2	805	LEU
2	A2	942	ASN
2	A2	975	GLU
2	A2	983	LEU
2	A2	1014	LYS
2	A2	1018	ASP
2	A2	1019	ARG
2	A2	1021	LEU
2	A2	1034	ARG
2	A2	1038	THR
2	A2	1048	ARG
2	A2	1070	ASP
2	A2	1117	ILE
2	A2	1133	GLU
2	A2	1175	ASP
2	A2	1177	HIS
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	1332	ARG
2	A2	1333	ARG
2	A2	1348	GLU
2	A2	1350	VAL
2	A2	1377	ARG
2	A2	1405	LEU
1	A3	316	ARG

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Mol	Chain	Res	Type
1	A3	422	LEU
1	A3	779	ASP
1	A3	790	ASP
1	A3	862	LEU
1	A3	976	LEU
1	A3	983	LEU
1	A3	1116	HIS
2	A4	83	GLN
2	A4	91	LEU
2	A4	113	GLN
2	A4	123	HIS
2	A4	204	THR
2	A4	229	SER
2	A4	232	LEU
2	A4	240	SER
2	A4	242	HIS
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	481	ARG
2	A4	489	LEU
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	575	LEU

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Mol	Chain	Res	Type
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	719	ARG
2	A4	720	LEU
2	A4	725	GLU
2	A4	730	THR
2	A4	731	ILE
2	A4	760	LEU
2	A4	772	SER
2	A4	781	ARG
2	A4	795	GLN
2	A4	798	LYS
2	A4	800	LEU
2	A4	805	LEU
2	A4	942	ASN
2	A4	975	GLU
2	A4	983	LEU
2	A4	1014	LYS
2	A4	1018	ASP
2	A4	1019	ARG
2	A4	1021	LEU
2	A4	1034	ARG
2	A4	1038	THR
2	A4	1048	ARG
2	A4	1070	ASP
2	A4	1117	ILE
2	A4	1133	GLU
2	A4	1175	ASP
2	A4	1177	HIS
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	1332	ARG

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Mol	Chain	Res	Type
2	A4	1333	ARG
2	A4	1348	GLU
2	A4	1350	VAL
2	A4	1377	ARG
2	A4	1405	LEU
3	A5	316	ARG
3	A5	422	LEU
3	A5	779	ASP
3	A5	790	ASP
3	A5	862	LEU
3	A5	945	ARG
3	A5	1019	ARG
3	A5	1213	LEU
3	A5	1321	MSE
3	A5	1405	LEU
3	A5	1412	MSE
3	A6	316	ARG
3	A6	422	LEU
3	A6	779	ASP
3	A6	790	ASP
3	A6	862	LEU
3	A6	945	ARG
3	A6	1019	ARG
3	A6	1213	LEU
3	A6	1321	MSE
3	A6	1405	LEU
3	A6	1412	MSE
11	I1	722	PHE
11	I2	722	PHE
11	I3	722	PHE
11	I4	722	PHE
11	I5	722	PHE
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

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Mol	Chain	Res	Type
21	S1	82	LYS
21	S1	96	LEU
21	S1	122	LYS
21	S1	123	LEU
21	S1	130	LEU
21	S1	170	THR
21	S1	207	LYS
21	S1	383	SER
21	S1	384	ASP
21	S1	394	ASN
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	1052	LEU
21	S1	1064	ILE
21	S1	1083	TRP
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	207	LYS
21	S2	383	SER
21	S2	384	ASP
21	S2	394	ASN
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

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Mol	Chain	Res	Type
21	S2	952	THR
21	S2	986	ASP
21	S2	997	GLU
21	S2	1034	LEU
21	S2	1052	LEU
21	S2	1064	ILE
21	S2	1083	TRP
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	207	LYS
21	S3	383	SER
21	S3	384	ASP
21	S3	394	ASN
21	S3	399	SER
21	S3	408	THR
21	S3	465	SER
21	S3	626	SER
21	S3	648	SER
21	S3	694	SER
21	S3	934	HIS
21	S3	952	THR
21	S3	986	ASP
21	S3	997	GLU
21	S3	1034	LEU
21	S3	1052	LEU
21	S3	1064	ILE
21	S3	1083	TRP
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	207	LYS
21	S4	383	SER
21	S4	384	ASP

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Mol	Chain	Res	Type
21	S4	394	ASN
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	1052	LEU
21	S4	1064	ILE
21	S4	1083	TRP
21	S4	1105	LEU
22	T1	675	ILE
22	T1	685	ARG
22	T1	698	LYS
22	T1	810	THR
22	T1	910	MET
22	T2	675	ILE
22	T2	685	ARG
22	T2	698	LYS
22	T2	810	THR
22	T2	910	MET
22	T3	675	ILE
22	T3	685	ARG
22	T3	698	LYS
22	T3	810	THR
22	T3	910	MET
22	T4	675	ILE
22	T4	685	ARG
22	T4	698	LYS
22	T4	810	THR
22	T4	910	MET
23	U1	17	ASP
23	U1	26	GLN
23	U1	58	ASP
23	U1	71	GLU
23	U1	77	LEU
23	U1	86	ASN

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Mol	Chain	Res	Type
23	U1	88	ASP
23	U1	118	GLN
23	U1	141	THR
23	U1	166	THR
23	U1	237	ILE
23	U1	268	SER
23	U1	274	GLN
23	U1	284	SER
23	U1	343	ILE
23	U1	357	SER
23	U1	365	MET
23	U1	403	SER
23	U1	422	LEU
23	U1	431	ILE
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	141	THR
23	U2	166	THR
23	U2	237	ILE
23	U2	268	SER
23	U2	274	GLN
23	U2	284	SER
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	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

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Mol	Chain	Res	Type
23	U3	141	THR
23	U3	166	THR
23	U3	237	ILE
23	U3	268	SER
23	U3	274	GLN
23	U3	284	SER
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	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	141	THR
23	U4	166	THR
23	U4	237	ILE
23	U4	268	SER
23	U4	274	GLN
23	U4	284	SER
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	214	SER
24	V1	216	LEU
24	V1	225	MET
24	V1	234	LEU
24	V1	251	THR
24	V1	308	SER
24	V1	319	LEU
24	V1	328	SER

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Mol	Chain	Res	Type
24	V1	336	LEU
24	V1	341	LEU
24	V1	346	THR
24	V1	349	CYS
24	V1	351	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	467	SER
24	V1	516	ILE
24	V1	522	SER
24	V1	524	ASN
24	V1	531	LEU
24	V1	539	PHE
24	V1	547	ARG
24	V2	160	LEU
24	V2	175	ARG
24	V2	214	SER
24	V2	216	LEU
24	V2	225	MET
24	V2	234	LEU
24	V2	251	THR
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	368	GLU
24	V2	370	LEU

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Mol	Chain	Res	Type
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	467	SER
24	V2	516	ILE
24	V2	522	SER
24	V2	524	ASN
24	V2	531	LEU
24	V2	539	PHE
24	V2	547	ARG
24	V3	160	LEU
24	V3	175	ARG
24	V3	214	SER
24	V3	216	LEU
24	V3	225	MET
24	V3	234	LEU
24	V3	251	THR
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	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

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Mol	Chain	Res	Type
24	V3	440	ARG
24	V3	443	THR
24	V3	456	GLN
24	V3	464	ARG
24	V3	467	SER
24	V3	516	ILE
24	V3	522	SER
24	V3	524	ASN
24	V3	531	LEU
24	V3	539	PHE
24	V3	547	ARG
24	V4	160	LEU
24	V4	175	ARG
24	V4	214	SER
24	V4	216	LEU
24	V4	225	MET
24	V4	234	LEU
24	V4	251	THR
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	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	467	SER
24	V4	516	ILE
24	V4	522	SER

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Mol	Chain	Res	Type
24	V4	524	ASN
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	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	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	188	ASN
25	W3	225	VAL
25	W3	227	GLN
25	W3	229	ARG
25	W3	275	ASP
25	W4	9	ASN
25	W4	22	LYS
25	W4	43	HIS
25	W4	46	ILE
25	W4	47	ASP
25	W4	225	VAL
25	W4	227	GLN
25	W4	229	ARG
25	W4	275	ASP
26	X1	51	MET

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Mol	Chain	Res	Type
26	X1	143	THR
26	X1	239	VAL
26	X1	269	ASP
26	X1	324	ILE
26	X1	453	ASP
26	X1	488	LEU
26	X1	496	THR
26	X1	516	ASN
26	X1	539	TYR
26	X2	51	MET
26	X2	143	THR
26	X2	239	VAL
26	X2	269	ASP
26	X2	324	ILE
26	X2	453	ASP
26	X2	488	LEU
26	X2	496	THR
26	X2	516	ASN
26	X2	539	TYR
26	X3	51	MET
26	X3	143	THR
26	X3	239	VAL
26	X3	269	ASP
26	X3	324	ILE
26	X3	453	ASP
26	X3	488	LEU
26	X3	496	THR
26	X3	516	ASN
26	X3	539	TYR
26	X4	51	MET
26	X4	143	THR
26	X4	239	VAL
26	X4	269	ASP
26	X4	324	ILE
26	X4	453	ASP
26	X4	488	LEU
26	X4	496	THR
26	X4	516	ASN
26	X4	539	TYR
27	Y1	80	THR
27	Y1	138	ASP
27	Y1	168	ASP

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Mol	Chain	Res	Type
27	Y1	226	ARG
27	Y1	301	ASP
27	Y1	313	ASN
27	Y1	314	LEU
27	Y1	334	THR
27	Y2	80	THR
27	Y2	138	ASP
27	Y2	168	ASP
27	Y2	226	ARG
27	Y2	301	ASP
27	Y2	313	ASN
27	Y2	314	LEU
27	Y2	334	THR
27	Y3	80	THR
27	Y3	138	ASP
27	Y3	168	ASP
27	Y3	226	ARG
27	Y3	301	ASP
27	Y3	313	ASN
27	Y3	314	LEU
27	Y3	334	THR
27	Y4	80	THR
27	Y4	138	ASP
27	Y4	168	ASP
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	72	PHE
28	Z1	127	SER
28	Z1	172	GLN
28	Z1	183	LEU
28	Z1	209	THR
28	Z1	230	HIS
28	Z1	270	PHE
28	Z1	280	LEU
28	Z1	305	VAL
28	Z1	314	THR
28	Z1	335	VAL
28	Z1	338	ARG

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Mol	Chain	Res	Type
28	Z1	370	ASP
28	Z1	408	PHE
28	Z1	422	ARG
28	Z1	590	GLN
28	Z1	600	ASP
28	Z1	628	ARG
28	Z1	638	VAL
28	Z1	644	THR
28	Z1	703	ASP
28	Z1	706	ASN
28	Z2	63	SER
28	Z2	72	PHE
28	Z2	127	SER
28	Z2	172	GLN
28	Z2	183	LEU
28	Z2	209	THR
28	Z2	230	HIS
28	Z2	270	PHE
28	Z2	280	LEU
28	Z2	305	VAL
28	Z2	314	THR
28	Z2	335	VAL
28	Z2	338	ARG
28	Z2	370	ASP
28	Z2	408	PHE
28	Z2	422	ARG
28	Z2	590	GLN
28	Z2	600	ASP
28	Z2	628	ARG
28	Z2	638	VAL
28	Z2	644	THR
28	Z2	703	ASP
28	Z2	706	ASN
28	Z3	63	SER
28	Z3	72	PHE
28	Z3	127	SER
28	Z3	172	GLN
28	Z3	183	LEU
28	Z3	209	THR
28	Z3	230	HIS
28	Z3	270	PHE
28	Z3	280	LEU

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Mol	Chain	Res	Type
28	Z3	305	VAL
28	Z3	314	THR
28	Z3	335	VAL
28	Z3	338	ARG
28	Z3	370	ASP
28	Z3	408	PHE
28	Z3	422	ARG
28	Z3	590	GLN
28	Z3	600	ASP
28	Z3	628	ARG
28	Z3	638	VAL
28	Z3	644	THR
28	Z3	703	ASP
28	Z3	706	ASN
28	Z4	63	SER
28	Z4	72	PHE
28	Z4	127	SER
28	Z4	172	GLN
28	Z4	183	LEU
28	Z4	209	THR
28	Z4	230	HIS
28	Z4	270	PHE
28	Z4	280	LEU
28	Z4	305	VAL
28	Z4	314	THR
28	Z4	335	VAL
28	Z4	338	ARG
28	Z4	370	ASP
28	Z4	408	PHE
28	Z4	422	ARG
28	Z4	590	GLN
28	Z4	600	ASP
28	Z4	628	ARG
28	Z4	638	VAL
28	Z4	644	THR
28	Z4	703	ASP
28	Z4	706	ASN
29	a1	72	ARG
29	a1	214[A]	THR
29	a1	214[B]	THR
29	a1	363[A]	LEU
29	a1	363[B]	LEU

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Mol	Chain	Res	Type
29	a2	72	ARG
29	a2	214[A]	THR
29	a2	214[B]	THR
29	a2	363[A]	LEU
29	a2	363[B]	LEU
29	a3	72	ARG
29	a3	214[A]	THR
29	a3	214[B]	THR
29	a3	363[A]	LEU
29	a3	363[B]	LEU
29	a4	72	ARG
29	a4	214[A]	THR
29	a4	214[B]	THR
29	a4	363[A]	LEU
29	a4	363[B]	LEU
30	b1	25	SER
30	b1	27	SER
30	b1	31	LEU
30	b1	46	SER
30	b1	50	THR
30	b1	54	THR
30	b1	68	LEU
30	b1	74	SER
30	b1	77	SER
30	b1	83	GLU
30	b1	127	LEU
30	b1	131	SER
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

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Mol	Chain	Res	Type
30	b2	68	LEU
30	b2	74	SER
30	b2	77	SER
30	b2	83	GLU
30	b2	127	LEU
30	b2	131	SER
30	b2	185	SER
30	b2	216	LEU
30	b2	245	THR
30	b2	246	CYS
30	b2	258	VAL
30	b2	259	ARG
30	b2	266	SER
30	b2	304	LEU
30	b2	367	GLN
30	b3	25	SER
30	b3	27	SER
30	b3	31	LEU
30	b3	46	SER
30	b3	50	THR
30	b3	54	THR
30	b3	68	LEU
30	b3	74	SER
30	b3	77	SER
30	b3	83	GLU
30	b3	127	LEU
30	b3	131	SER
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

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Mol	Chain	Res	Type
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
31	c1	696	ASN
31	c2	696	ASN
31	c3	696	ASN
31	c4	696	ASN
31	c5	696	ASN
32	g	68	LEU
32	g	72	LYS
32	g	79	LYS
32	g	84	VAL
32	g	126	ARG
32	g	134	GLN
32	g	145	LEU
32	g	146	LYS
32	g	174	ILE
32	g	198	VAL
32	g	283	HIS
32	g	297	SER
32	g	312	GLU
32	g	357	SER
32	g	374	GLU
32	g	416	THR
32	g	421	SER
32	g	422	LEU
33	h	80	LEU
33	h	89	TYR
33	h	90	SER
33	h	102	GLN

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Mol	Chain	Res	Type
33	h	113	ASN
33	h	154	SER
33	h	166	LEU
33	h	209	ILE
33	h	270	MET
33	h	277	PHE
34	i	309	TYR
36	k1	359	GLU
36	k1	360	ASN
36	k1	363	ASN
36	k1	365	TRP
36	k1	371	ASP
36	k1	374	LYS
36	k1	400	LEU
36	k1	409	LEU
36	k1	414	LEU
36	k1	422	LEU
36	k1	423	SER
37	k2	475	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (253) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	1233	GLN
2	A2	83	GLN
2	A2	87	GLN
2	A2	123	HIS
2	A2	673	HIS
2	A2	722	ASN
2	A2	868	GLN
2	A2	1100	GLN
2	A2	1103	GLN
2	A2	1162	ASN
2	A2	1284	ASN
2	A2	1289	HIS
2	A2	1317	GLN
2	A2	1368	GLN
1	A3	1188	ASN
1	A3	1236	GLN
2	A4	123	HIS
2	A4	173	ASN
2	A4	546	ASN

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Mol	Chain	Res	Type
2	A4	673	HIS
2	A4	750	ASN
2	A4	808	GLN
2	A4	826	ASN
2	A4	859	GLN
2	A4	861	GLN
2	A4	1092	ASN
2	A4	1100	GLN
2	A4	1103	GLN
2	A4	1199	GLN
2	A4	1284	ASN
2	A4	1289	HIS
2	A4	1317	GLN
2	A4	1368	GLN
3	A5	129	ASN
3	A5	173	ASN
3	A5	568	HIS
3	A5	1027	HIS
3	A5	1033	GLN
3	A5	1101	GLN
3	A5	1155	ASN
3	A5	1160	GLN
3	A5	1364	GLN
3	A6	127	HIS
3	A6	129	ASN
3	A6	377	ASN
3	A6	393	HIS
3	A6	430	GLN
3	A6	483	HIS
3	A6	961	GLN
3	A6	1155	ASN
3	A6	1160	GLN
3	A6	1199	GLN
3	A6	1364	GLN
6	D1	200	HIS
6	D2	200	HIS
6	D3	200	HIS
6	D3	724	GLN
6	D3	736	ASN
6	D3	819	ASN
6	D4	200	HIS
6	D4	759	GLN

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Mol	Chain	Res	Type
6	D5	200	HIS
6	D5	381	ASN
6	D5	788	GLN
6	D6	200	HIS
6	D7	200	HIS
6	D7	511	GLN
8	F1	1262	HIS
8	F2	776	HIS
8	F2	1049	GLN
11	I1	878	GLN
11	I1	927	HIS
11	I1	1014	ASN
11	I1	1063	GLN
11	I1	1068	HIS
11	I1	1072	ASN
11	I1	1182	GLN
11	I1	1635	HIS
11	I2	261	GLN
11	I2	887	GLN
11	I2	892	HIS
11	I2	1014	ASN
11	I2	1041	GLN
11	I2	1063	GLN
11	I2	1068	HIS
11	I2	1182	GLN
11	I2	1635	HIS
11	I2	1667	GLN
11	I3	1182	GLN
11	I4	225	GLN
11	I4	1182	GLN
11	I5	29	GLN
11	I5	1063	GLN
11	I5	1182	GLN
15	M1	584	GLN
15	M1	618	GLN
15	M1	631	GLN
15	M3	584	GLN
17	O2	263	GLN
17	O2	266	GLN
17	O4	265	ASN
18	P1	326	GLN
18	P3	326	GLN

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Mol	Chain	Res	Type
19	Q1	192	GLN
19	Q3	192	GLN
20	R1	150	ASN
21	S1	319	ASN
21	S1	944	GLN
21	S1	950	HIS
21	S1	958	ASN
21	S1	1017	GLN
21	S1	1155	GLN
21	S2	319	ASN
21	S2	944	GLN
21	S2	958	ASN
21	S2	1017	GLN
21	S2	1127	GLN
21	S3	319	ASN
21	S3	944	GLN
21	S3	958	ASN
21	S3	1017	GLN
21	S3	1155	GLN
21	S4	319	ASN
21	S4	944	GLN
21	S4	950	HIS
21	S4	958	ASN
21	S4	1017	GLN
21	S4	1155	GLN
22	T1	788	HIS
22	T1	862	HIS
22	T1	902	GLN
22	T1	914	GLN
22	T2	788	HIS
22	T2	862	HIS
22	T2	902	GLN
22	T2	914	GLN
22	T3	788	HIS
22	T3	862	HIS
22	T3	902	GLN
22	T3	914	GLN
22	T4	788	HIS
22	T4	862	HIS
22	T4	902	GLN
22	T4	914	GLN
23	U1	97	HIS

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Mol	Chain	Res	Type
23	U2	97	HIS
23	U2	360	HIS
23	U2	400	ASN
23	U2	428	ASN
23	U2	437	ASN
23	U3	97	HIS
23	U3	274	GLN
23	U4	97	HIS
23	U4	278	GLN
24	V1	210	GLN
24	V1	287	ASN
24	V1	329	ASN
24	V1	536	GLN
24	V1	542	GLN
24	V2	210	GLN
24	V2	255	GLN
24	V2	329	ASN
24	V2	542	GLN
24	V3	210	GLN
24	V3	329	ASN
24	V3	536	GLN
24	V3	542	GLN
24	V4	210	GLN
24	V4	329	ASN
24	V4	536	GLN
24	V4	542	GLN
25	W1	9	ASN
25	W1	43	HIS
25	W1	63	HIS
25	W2	9	ASN
25	W2	43	HIS
25	W2	63	HIS
25	W3	9	ASN
25	W3	43	HIS
25	W3	63	HIS
25	W4	9	ASN
25	W4	43	HIS
25	W4	63	HIS
25	W4	192	GLN
26	X1	403	HIS
26	X2	308	ASN
26	X2	467	ASN

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Mol	Chain	Res	Type
26	X3	467	ASN
26	X4	467	ASN
27	Y1	313	ASN
28	Z1	255	GLN
28	Z1	284	ASN
28	Z1	295	ASN
28	Z1	350	ASN
28	Z1	410	ASN
28	Z1	514	ASN
28	Z1	560	ASN
28	Z1	575	ASN
28	Z1	588	ASN
28	Z1	632	GLN
28	Z2	255	GLN
28	Z2	284	ASN
28	Z2	295	ASN
28	Z2	350	ASN
28	Z2	410	ASN
28	Z2	560	ASN
28	Z2	575	ASN
28	Z2	588	ASN
28	Z3	255	GLN
28	Z3	284	ASN
28	Z3	295	ASN
28	Z3	350	ASN
28	Z3	410	ASN
28	Z3	514	ASN
28	Z3	560	ASN
28	Z3	575	ASN
28	Z3	632	GLN
28	Z4	255	GLN
28	Z4	284	ASN
28	Z4	295	ASN
28	Z4	350	ASN
28	Z4	410	ASN
28	Z4	514	ASN
28	Z4	560	ASN
28	Z4	575	ASN
28	Z4	588	ASN
28	Z4	632	GLN
29	a2	27	GLN
30	b1	135	ASN

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Mol	Chain	Res	Type
30	b1	138	ASN
30	b1	333	HIS
30	b2	135	ASN
30	b2	138	ASN
30	b2	333	HIS
30	b3	135	ASN
30	b3	138	ASN
30	b3	333	HIS
30	b4	135	ASN
30	b4	138	ASN
30	b4	333	HIS
31	c1	632	HIS
31	c2	463	HIS
31	c2	540	HIS
31	c2	556	GLN
31	c2	565	GLN
31	c4	462	HIS
31	c4	466	HIS
31	c4	504	ASN
31	c4	506	HIS
31	c5	24	GLN
31	c5	463	HIS
33	h	75	ASN
37	k2	450	HIS

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 monosaccharides 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
40	m1	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	m1	14:UNK	C	18:UNK	N	8.65

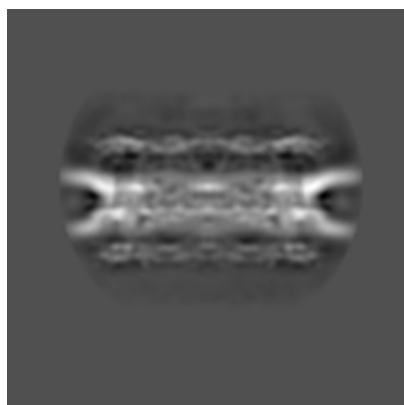
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-11967. These allow visual inspection of the internal detail of the map and identification of artifacts.

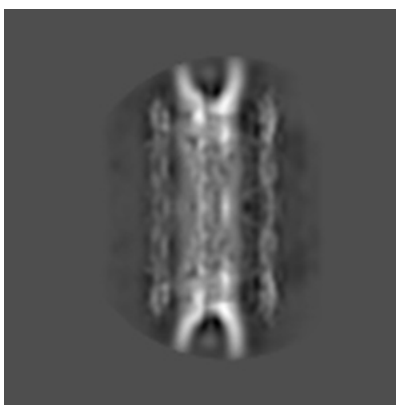
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

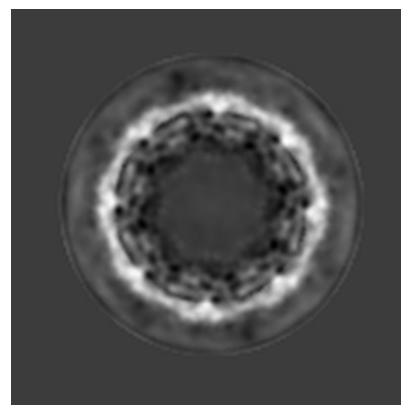
6.1.1 Primary map



X



Y



Z

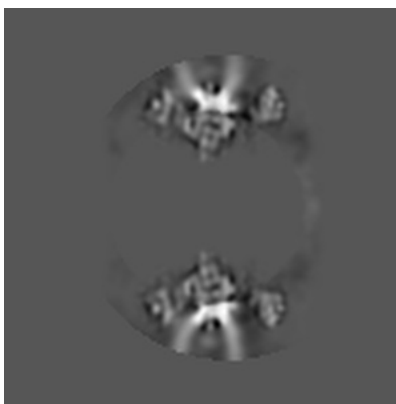
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

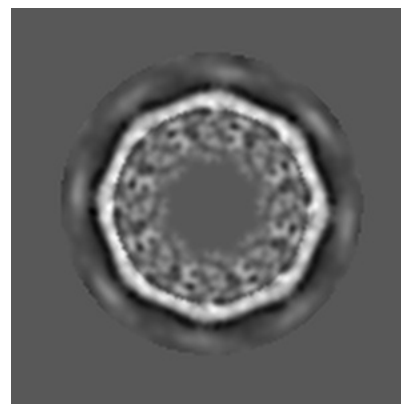
6.2.1 Primary map



X Index: 72



Y Index: 72



Z Index: 72

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

6.3 Largest variance slices [i](#)

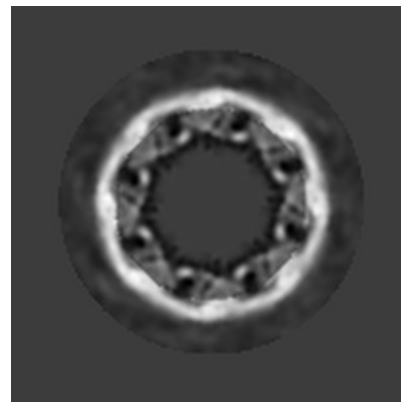
6.3.1 Primary map



X Index: 36



Y Index: 108

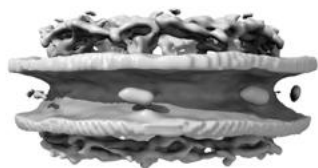


Z Index: 78

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

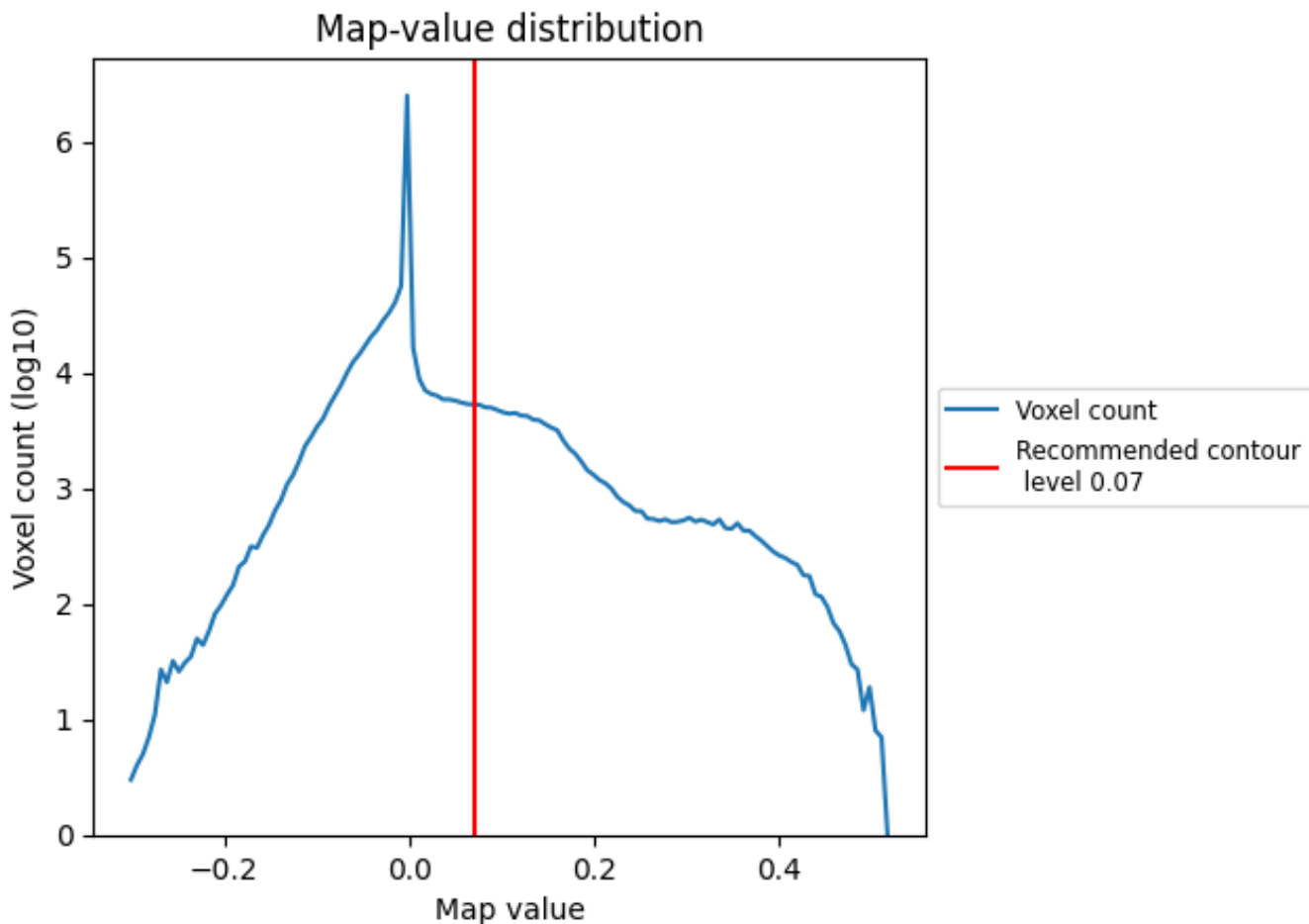
6.5 Mask visualisation

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

7 Map analysis [i](#)

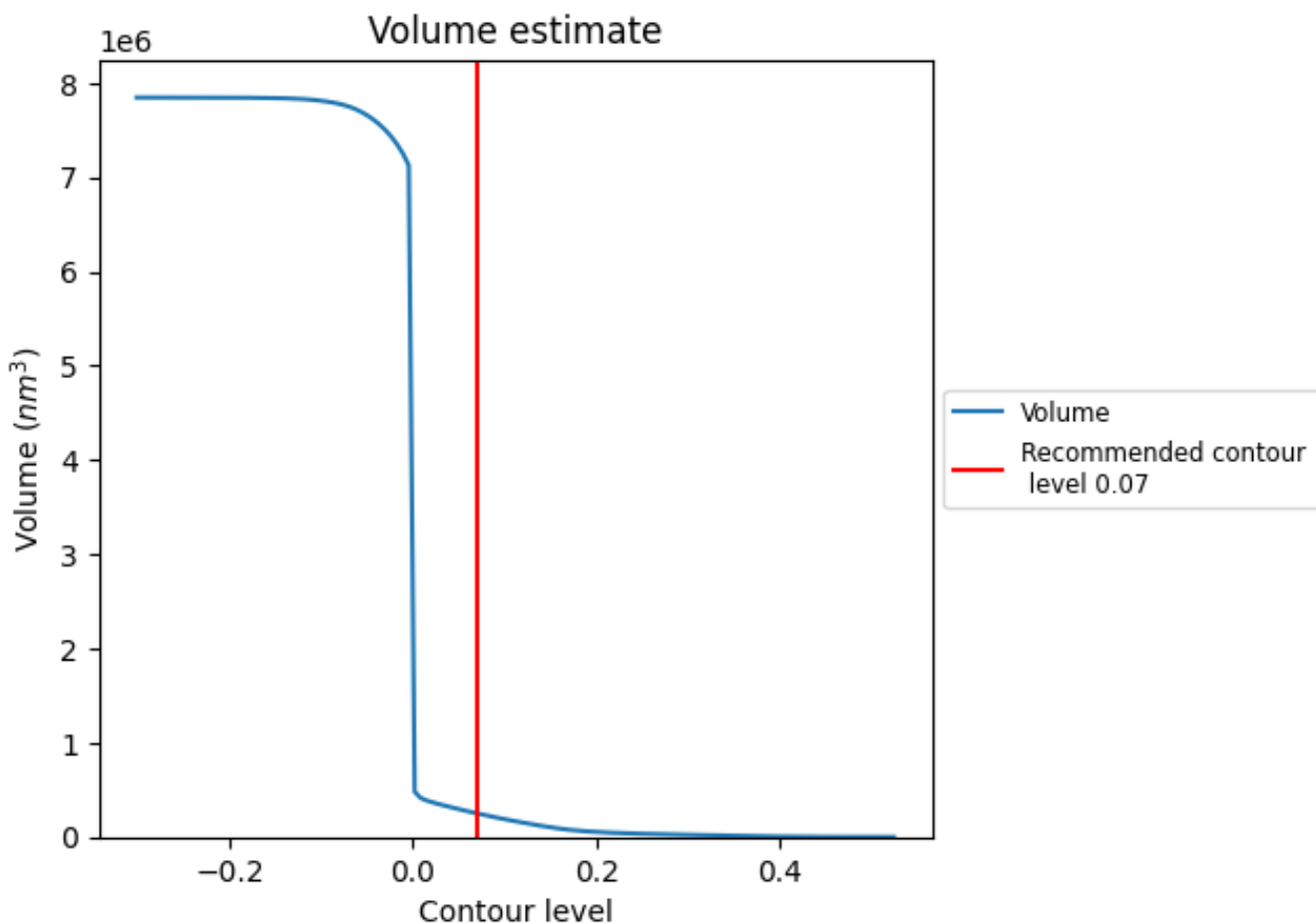
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

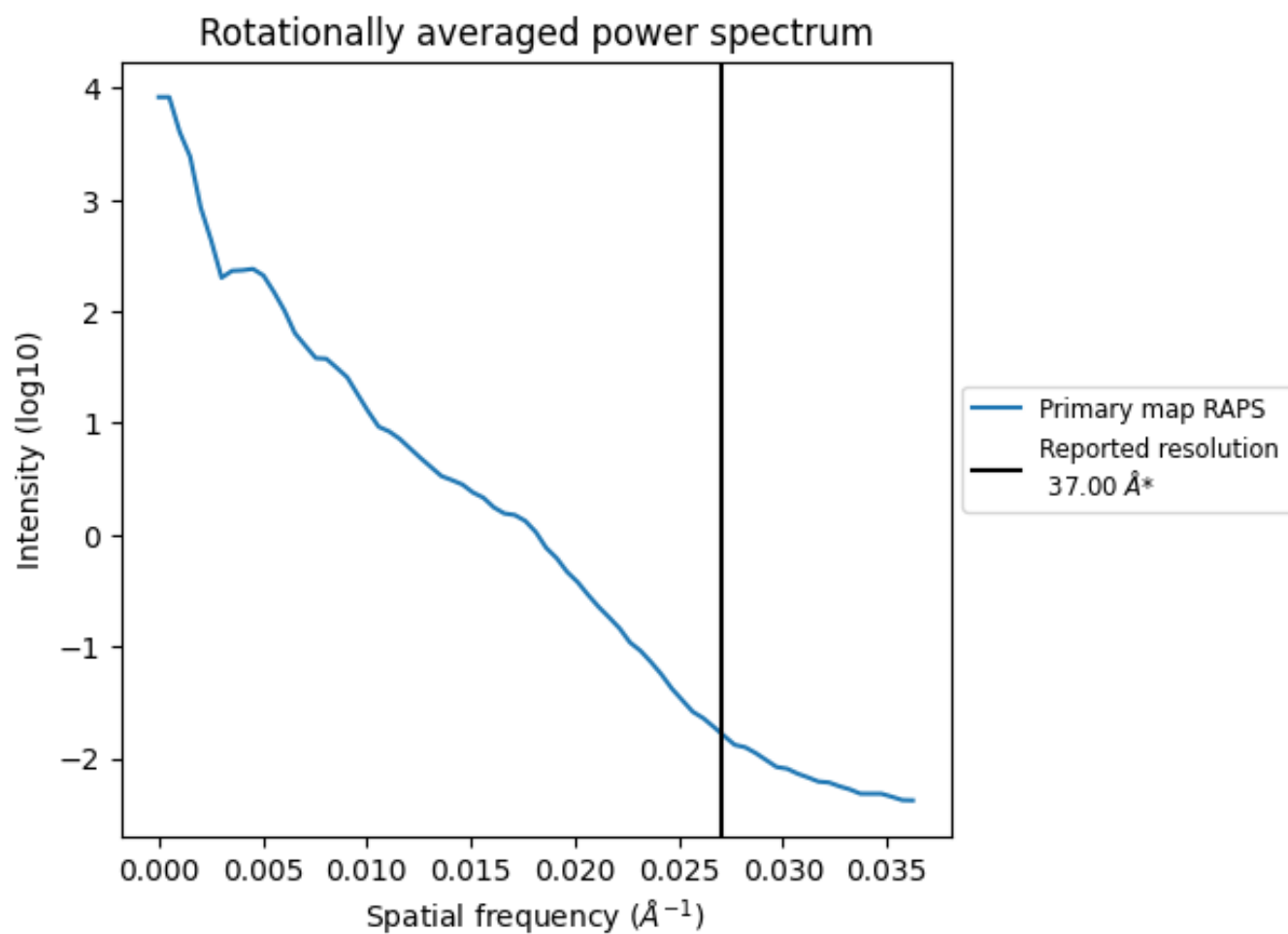
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 250411 nm³; this corresponds to an approximate mass of 226203 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.027 Å⁻¹

8 Fourier-Shell correlation

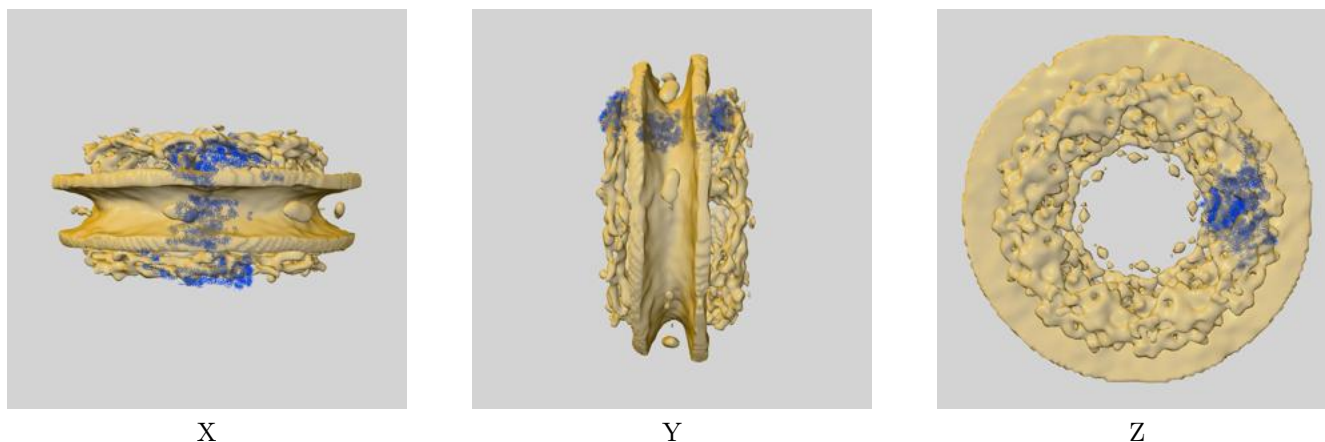
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

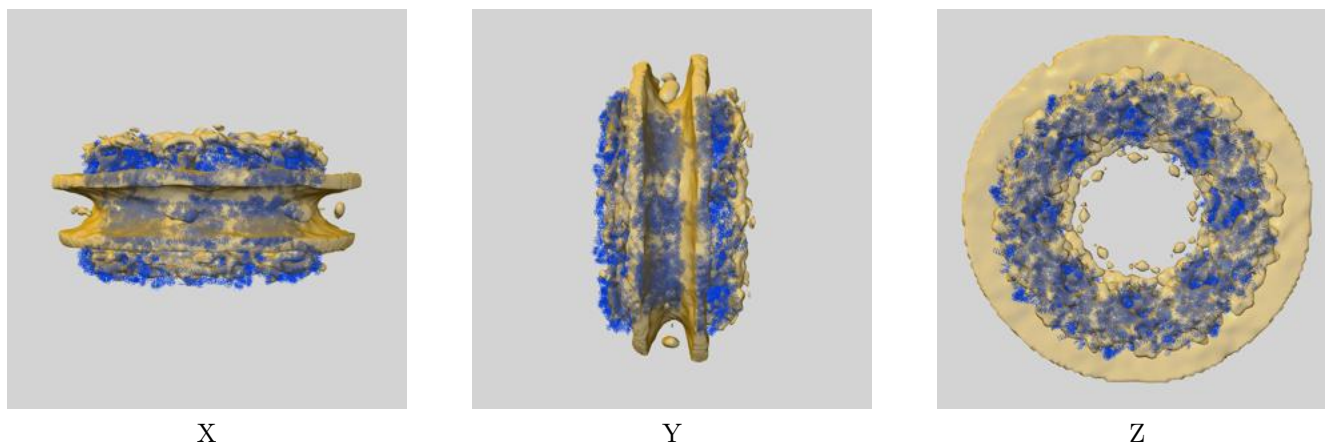
This section contains information regarding the fit between EMDB map EMD-11967 and PDB model 7TBM. Per-residue inclusion information can be found in section 3 on page 20.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

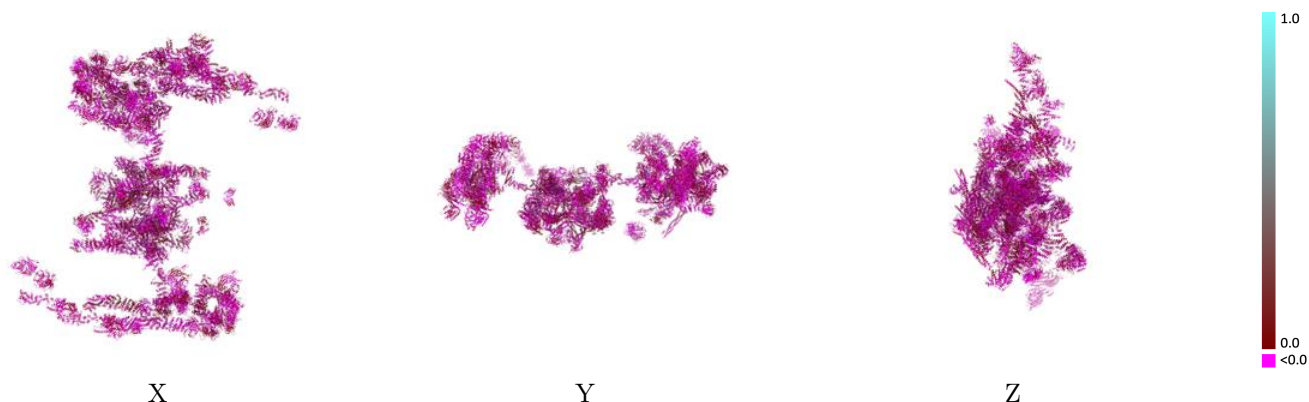


9.1.2 Map-model assembly overlay [i](#)



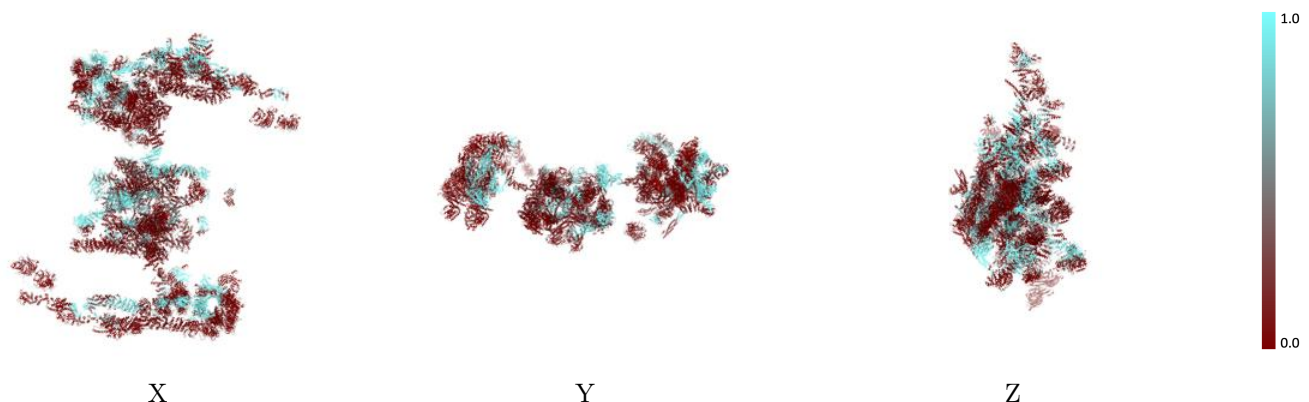
The images above show the 3D surface view of the map at the recommended contour level 0.07 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



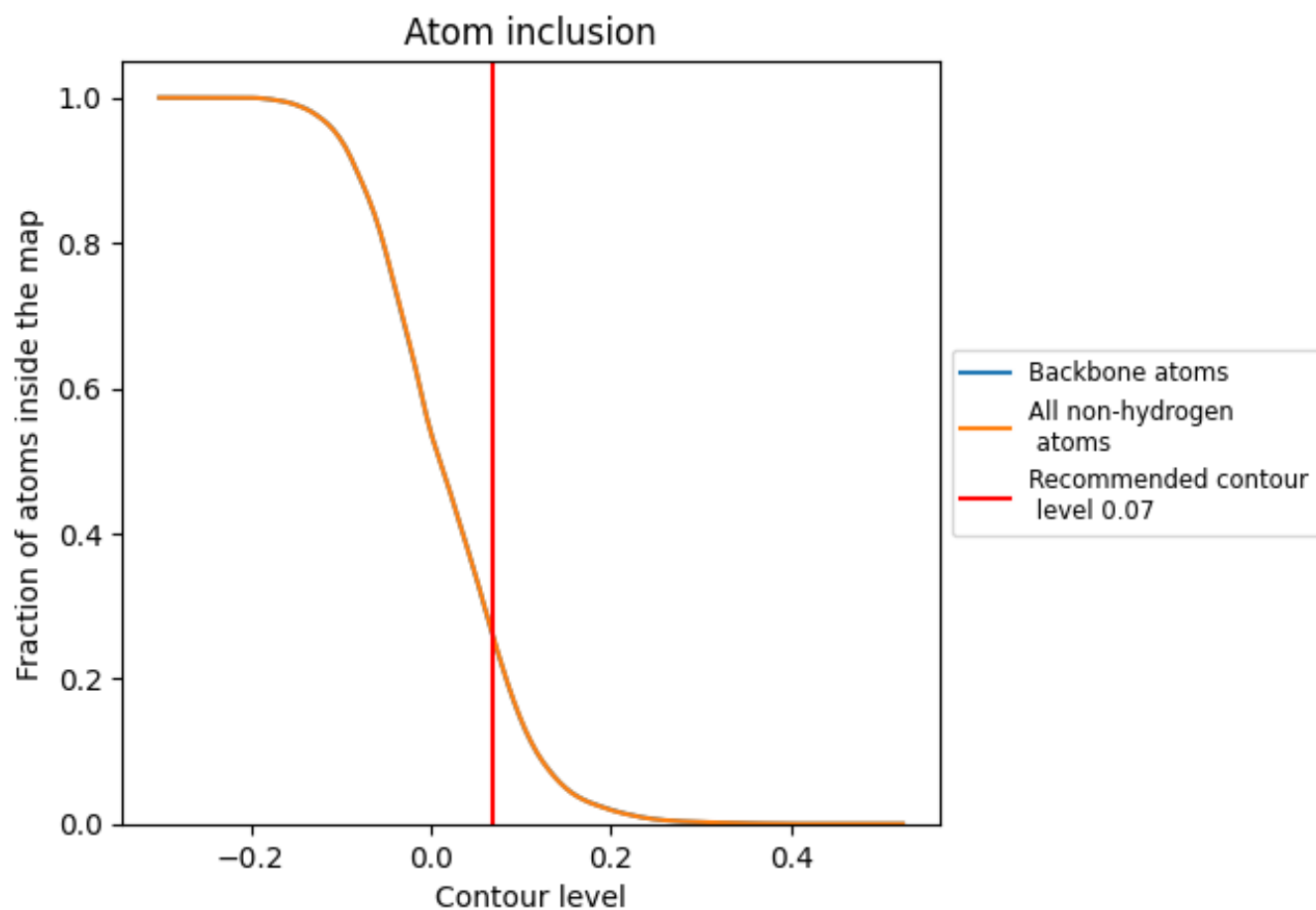
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.07).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 26% of all backbone atoms, 26% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.2561	 -0.0040
A1	 0.6042	 0.0060
A2	 0.4364	 -0.0060
A3	 0.1583	 -0.0070
A4	 0.0936	 -0.0080
A5	 0.4657	 -0.0130
A6	 0.1094	 0.0020
B1	 0.2110	 -0.0340
B2	 1.0000	 0.0600
B3	 0.0000	 -0.0480
B4	 0.0000	 -0.0250
B5	 0.9817	 0.0030
B6	 0.0000	 0.0230
C1	 1.0000	 0.0130
C2	 0.7226	 -0.0560
C3	 0.0000	 0.0310
C4	 0.8258	 0.0830
C5	 0.7353	 0.0160
C6	 0.0000	 -0.0060
D1	 0.3738	 0.0130
D2	 0.4242	 0.0040
D3	 0.2123	 -0.0180
D4	 0.0000	 0.0010
D5	 0.5656	 0.0120
D6	 0.1530	 -0.0060
D7	 0.0089	 -0.0410
E1	 0.7500	 0.0310
E2	 0.7000	 0.0010
E3	 0.0000	 -0.0090
E4	 0.0000	 0.0130
E5	 0.8167	 0.0230
E6	 0.0000	 -0.0450
E7	 0.0000	 -0.0300
F1	 0.2335	 -0.0000
F2	 0.0390	 -0.0200























































































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Chain	Atom inclusion	Q-score
G1	0.1101	-0.0010
G2	0.0000	-0.0520
H1	0.0638	-0.0260
H2	0.0000	-0.0020
I1	0.4411	0.0030
I2	0.1600	0.0050
I3	0.2318	-0.0020
I4	0.6064	0.0080
I5	0.0000	-0.0090
J1	0.3225	-0.0120
J2	0.3205	-0.0080
J3	0.5030	0.0220
J4	0.2211	-0.0060
J5	0.0000	0.0420
K1	0.0000	-0.0460
K2	0.0000	-0.0150
K3	0.0417	-0.0040
K4	1.0000	0.0160
K5	0.0000	-0.0190
L1	1.0000	-0.0560
L2	0.0000	-0.0040
L3	0.0000	0.0010
L4	1.0000	0.0020
L5	0.0000	-0.0120
M1	0.5520	0.0270
M2	0.3886	0.0090
M3	0.1731	-0.0070
M4	0.0973	-0.0020
N1	0.5495	0.0300
N2	0.4513	-0.0000
N3	0.3235	-0.0000
N4	0.2383	0.0000
O1	0.4369	0.0200
O2	0.3108	-0.0040
O3	0.1661	-0.0060
O4	0.0171	-0.0250
P1	0.2002	-0.0060
P2	0.0034	-0.0140
P3	0.0000	-0.0070
P4	0.0000	-0.0010
Q1	0.0343	-0.0260
Q2	0.3239	-0.0100







































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Chain	Atom inclusion	Q-score
Q3	 0.4782	 0.0110
Q4	 0.7608	 0.0450
R1	 0.2409	 -0.0060
R2	 0.4422	 -0.0130
R3	 0.4125	 0.0460
R4	 0.3861	 0.0190
S1	 0.1021	 -0.0130
S2	 0.2025	 -0.0010
S3	 0.1140	 -0.0060
S4	 0.0029	 -0.0200
T1	 0.5173	 0.0010
T2	 0.2740	 0.0140
T3	 0.2010	 -0.0070
T4	 0.2240	 -0.0020
U1	 0.3662	 0.0010
U2	 0.0000	 -0.0210
U3	 0.0000	 -0.0270
U4	 0.3645	 0.0110
V1	 0.5805	 0.0200
V2	 0.0000	 -0.0260
V3	 0.0195	 -0.0340
V4	 0.6611	 0.0360
W1	 0.3294	 -0.0120
W2	 0.0000	 -0.0310
W3	 0.0895	 -0.0130
W4	 0.0650	 -0.0150
X1	 0.3162	 -0.0060
X2	 0.0034	 -0.0210
X3	 0.0188	 -0.0090
X4	 0.0069	 -0.0370
Y1	 0.9159	 0.0300
Y2	 0.1017	 0.0060
Y3	 0.0000	 0.0010
Y4	 0.0000	 0.0210
Z1	 0.5984	 0.0080
Z2	 0.0753	 -0.0150
Z3	 0.1361	 -0.0090
Z4	 0.4495	 0.0080
a1	 0.2026	 -0.0150
a2	 0.7299	 0.0350
a3	 0.0000	 -0.0130
a4	 0.0021	 -0.0330

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Chain	Atom inclusion	Q-score
b1	 0.3272	 0.0130
b2	 0.0481	 -0.0230
b3	 0.0000	 -0.0360
b4	 0.6493	 0.0080
c1	 0.5429	 0.0160
c2	 0.1446	 -0.0160
c3	 0.5336	 -0.0050
c4	 0.2998	 0.0130
c5	 0.4415	 0.0000
g	 0.0015	 -0.0240
h	 0.0000	 -0.0410
i	 0.4803	 0.0200
j	 0.0755	 0.0010
k1	 0.4189	 -0.0100
k2	 0.6337	 -0.0110
l1	 0.4261	 -0.0100
l2	 0.2308	 -0.0210
m1	 0.4932	 0.0010
m2	 0.0000	 -0.0370