Full wwPDB EM Validation Report ⓘ

Nov 28, 2022 – 10:54 PM EST

PDB ID	:	7TBK
EMDB ID	:	EMD-11967
Title	:	Composite structure of the dilated human nuclear pore complex (NPC) symmetric core generated with a 37A in situ cryo-ET map of CD4+ T cell NPC
Authors	:	Petrovic, S.; Samanta, D.; Perriches, T.; Bley, C.J.; Thierbach, K.; Brown, B.; Nie, S.; Mobbs, G.W.; Stevens, T.A.; Liu, X.; Tomaleri, G.P.; Schaus, L.; Hoelz, A.
Deposited on	:	2021-12-22
Resolution	:	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:

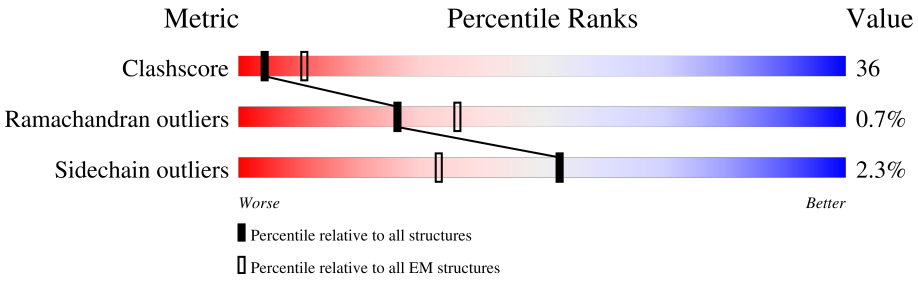
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	1316	36% 87% 7% 6%
1	A3	1316	78% 79% 14% 6%
2	A2	1328	53% 73% 20%
2	A4	1328	86% 60% 32%
3	A5	1330	50% 81% 14%
3	A6	1330	85% 61% 35%
4	B1	14	79% 93% 7%
4	B2	14	57% 43%

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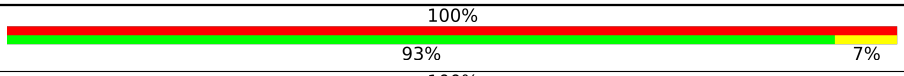
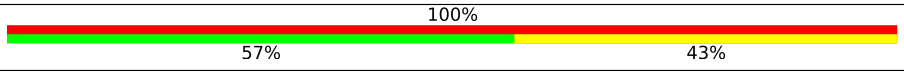
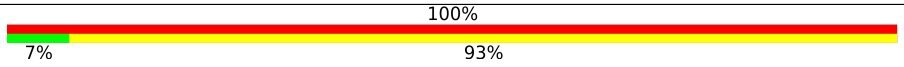
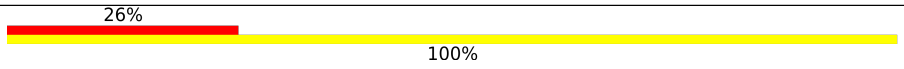
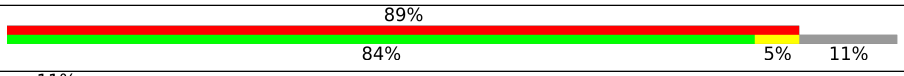
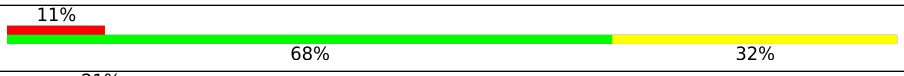
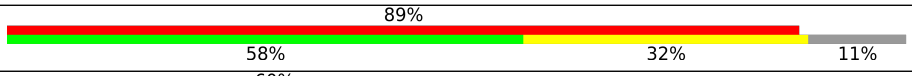
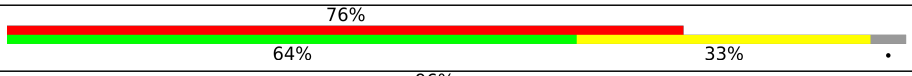
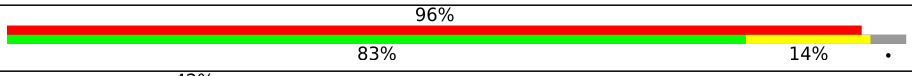
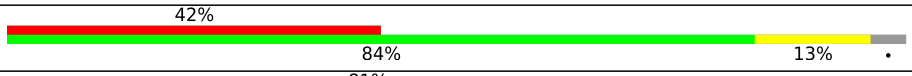
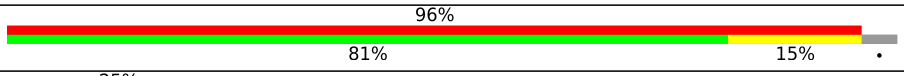
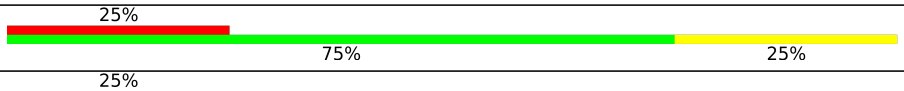
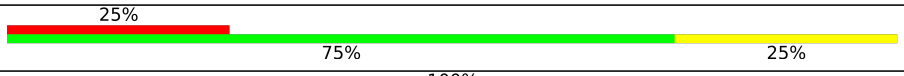
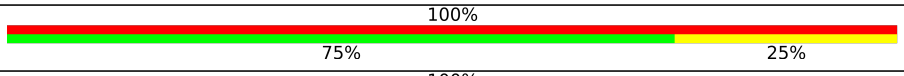
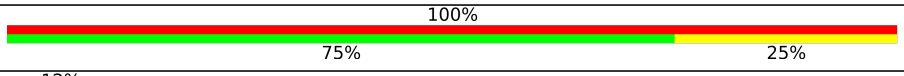
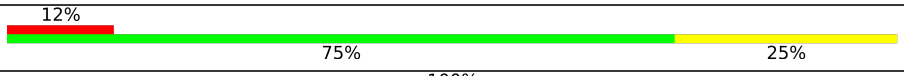
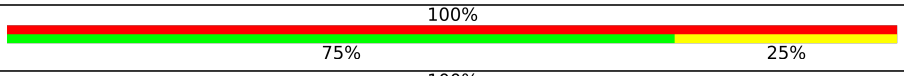
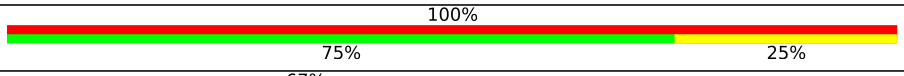
Mol	Chain	Length	Quality of chain
4	B3	14	
4	B4	14	
4	B5	14	
4	B6	14	
5	C1	19	
5	C2	19	
5	C3	19	
5	C4	19	
5	C5	19	
5	C6	19	
6	D1	644	
6	D2	644	
6	D3	644	
6	D4	644	
6	D5	644	
6	D6	644	
6	D7	644	
7	E1	8	
7	E2	8	
7	E3	8	
7	E4	8	
7	E5	8	
7	E6	8	
7	E7	8	
8	F1	1858	

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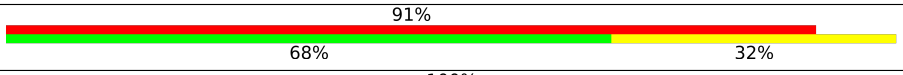
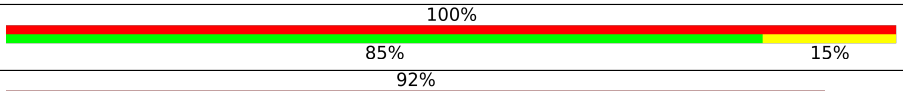
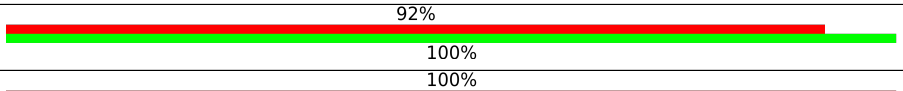
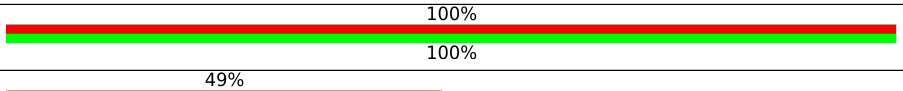
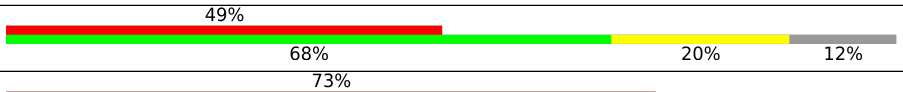
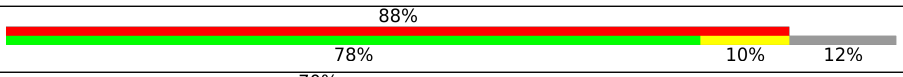
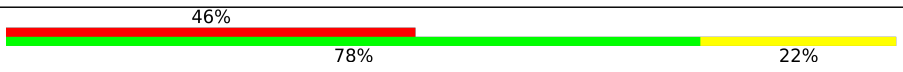
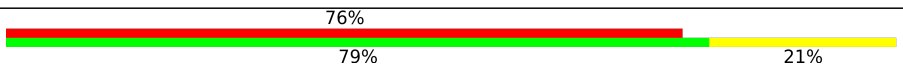
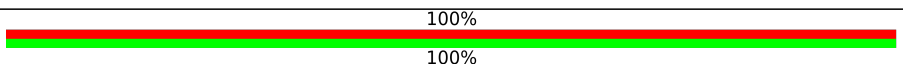
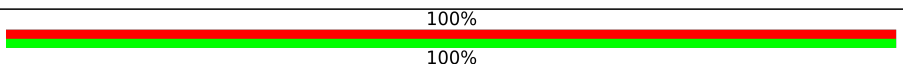
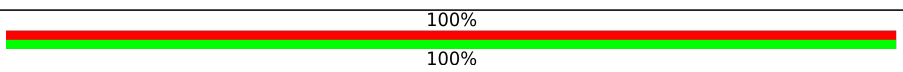
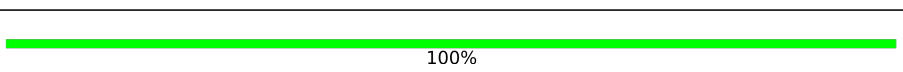
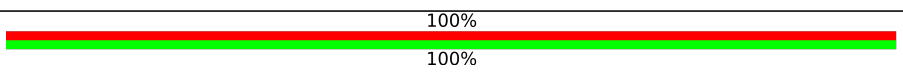
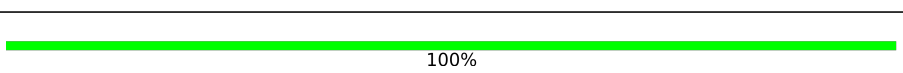
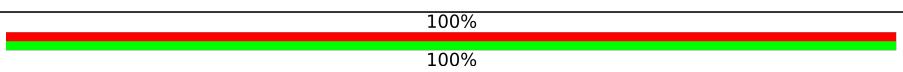
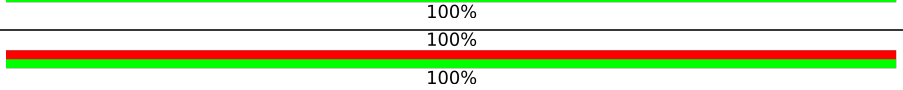
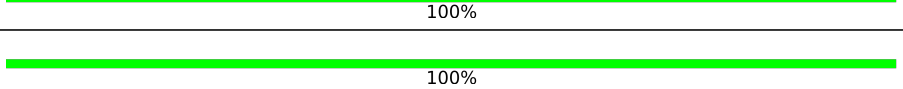
Mol	Chain	Length	Quality of chain
8	F2	1858	
9	G1	53	
9	G2	53	
10	H1	13	
10	H2	13	
11	I1	1756	
11	I2	1756	
11	I3	1756	
11	I4	1756	
11	I5	1756	
12	J1	63	
12	J2	63	
12	J3	63	
12	J4	63	
12	J5	63	
13	K1	9	
13	K2	9	
13	K3	9	
13	K4	9	
13	K5	9	
14	L1	2	
14	L2	2	
14	L3	2	
14	L4	2	
14	L5	2	

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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% 70% 22%
23	U2	436	96% 70% 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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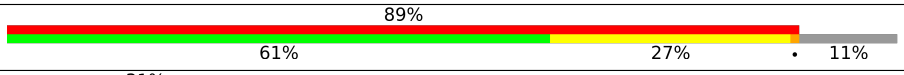
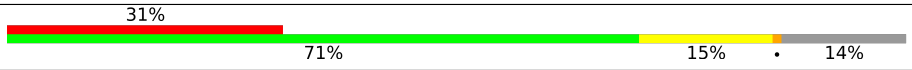
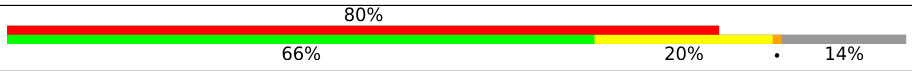
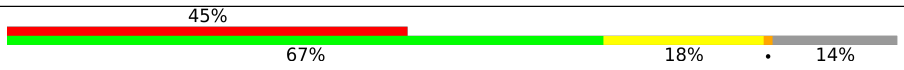
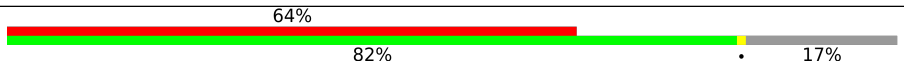
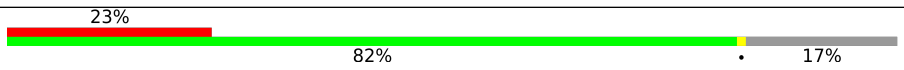
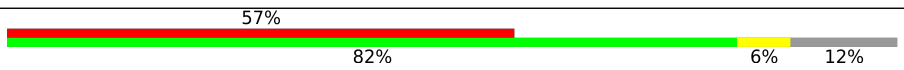
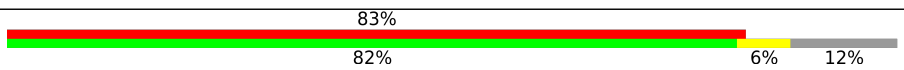
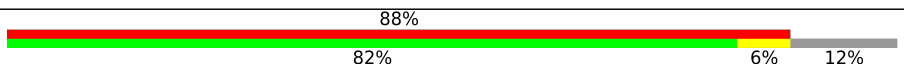
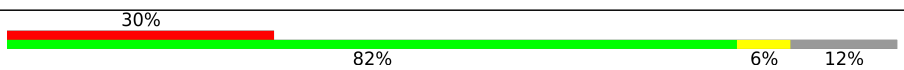
Mol	Chain	Length	Quality of chain
27	Y3	346	
27	Y4	346	
28	Z1	1037	
28	Z2	1037	
28	Z3	1037	
28	Z4	1037	
29	a1	380	
29	a2	380	
29	a3	380	
29	a4	380	
30	b1	391	
30	b2	391	
30	b3	391	
30	b4	391	

2 Entry composition

There are 30 unique types of molecules in this entry. The entry contains 358888 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called NUP155.

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

- Molecule 2 is a protein called NUP155.

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

- Molecule 3 is a protein called NUP155.

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

- Molecule 4 is a protein called NUP53 R3.

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

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

- Molecule 5 is a protein called NUP98 R3.

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

- Molecule 6 is a protein called NUP93 SOL.

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

- Molecule 7 is a protein called NUP53 R2.

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

- Molecule 8 is a protein called NUP188.

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

- Molecule 9 is a protein called NUP93 R2.

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

- Molecule 10 is a protein called NUP98 R2.

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

- Molecule 11 is a protein called NUP205.

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

- Molecule 12 is a protein called NUP93 R2.

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

- Molecule 13 is a protein called NUP98 R1.

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

- Molecule 14 is a protein called NUP53 R1.

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

- Molecule 15 is a protein called NUP62.

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

- Molecule 16 is a protein called NUP58.

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

- Molecule 17 is a protein called NUP54.

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

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

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

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

- Molecule 20 is a protein called NUP93 R1.

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

- Molecule 21 is a protein called NUP133.

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

- Molecule 22 is a protein called NUP107 CTD.

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

- Molecule 23 is a protein called NUP107 NTD.

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

- Molecule 24 is a protein called NUP96.

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

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

- Molecule 25 is a protein called SEC13.

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

- Molecule 26 is a protein called NUP75.

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

- Molecule 27 is a protein called SEH1.

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

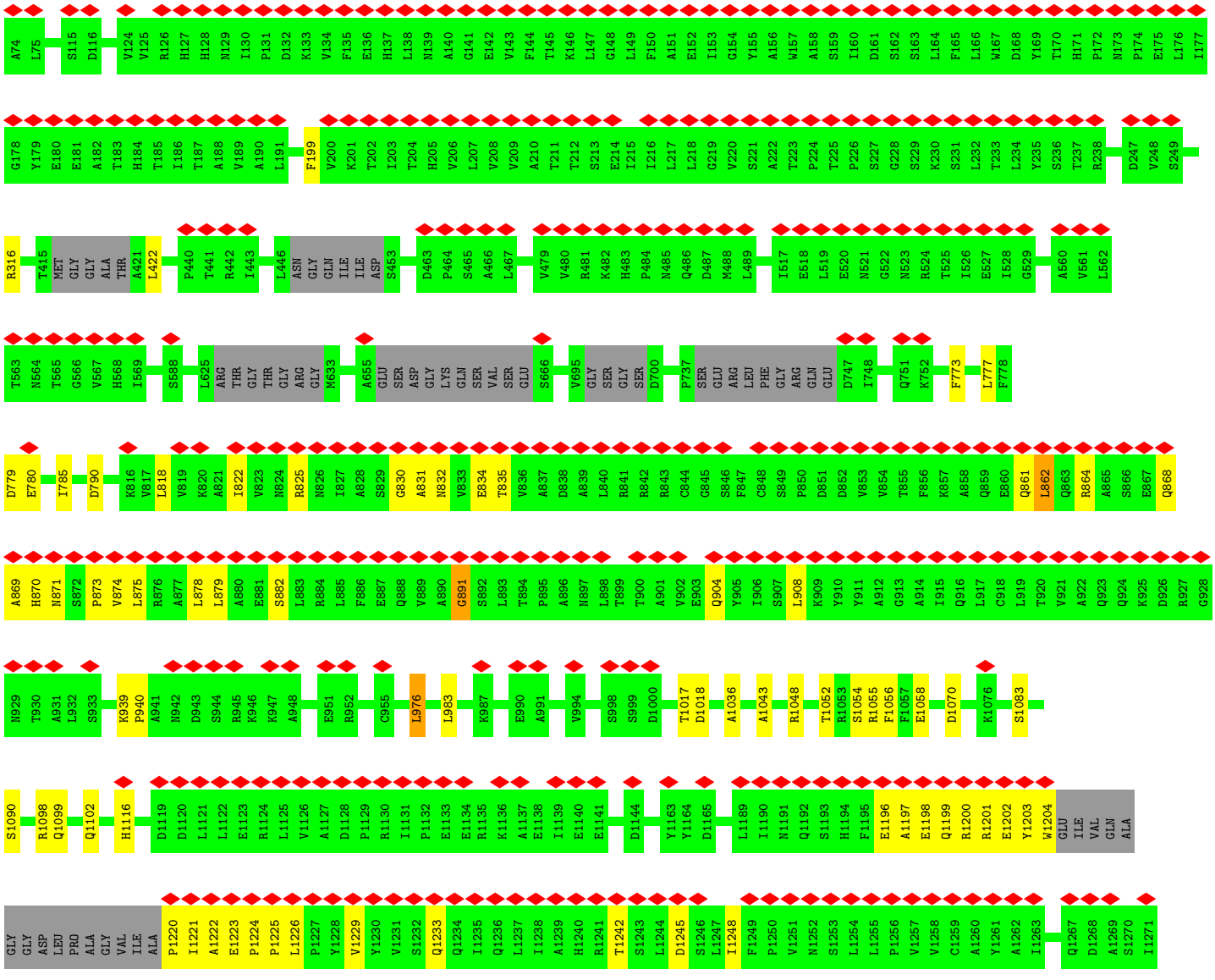
Mol	Chain	Residues	Atoms					AltConf	Trace
30	b1	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b2	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b3	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		
30	b4	343	Total	C	N	O	S	0	0
			2638	1676	447	500	15		

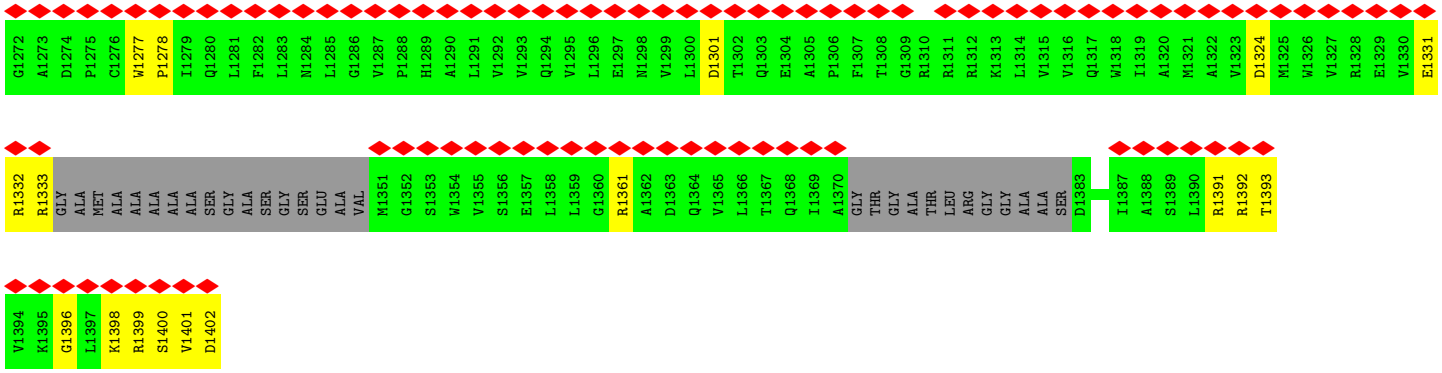
3 Residue-property plots (i)

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

- Molecule 1: NUP155

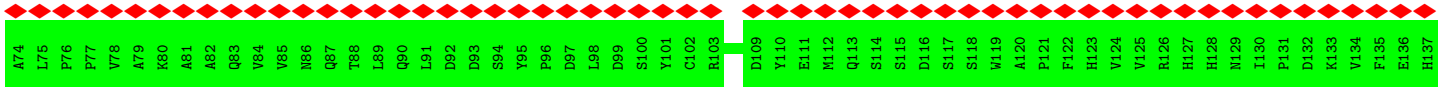
Chain A1:

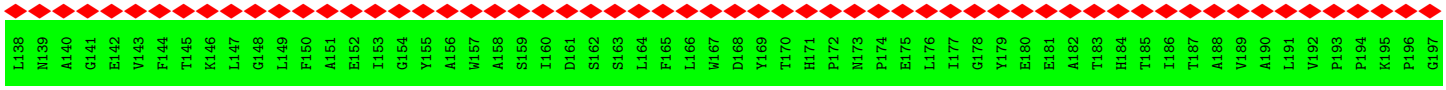


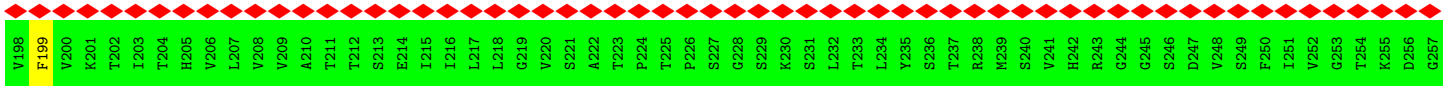


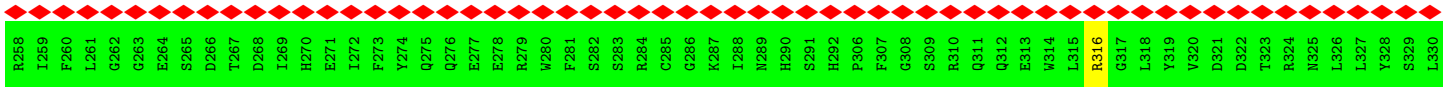
• Molecule 1: NUP155

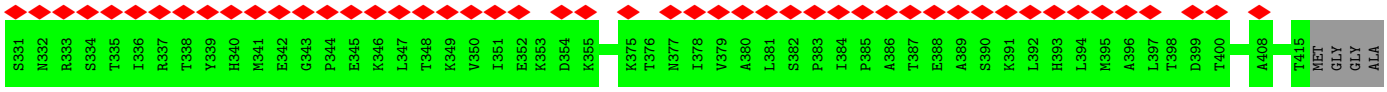
Chain A3:

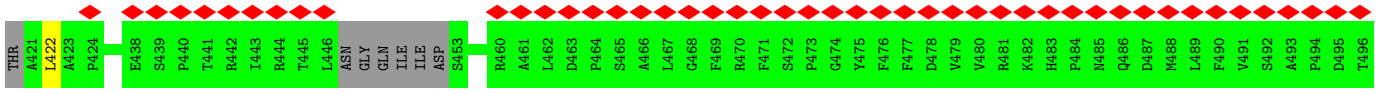


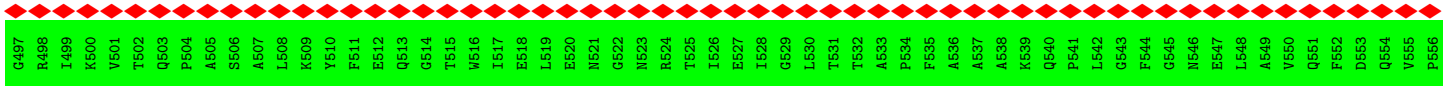


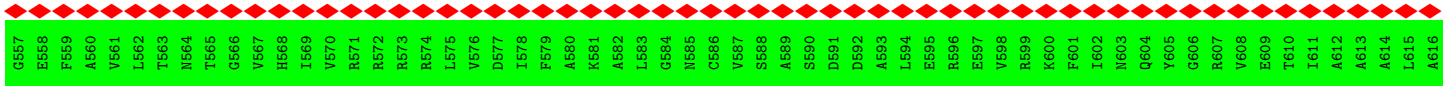


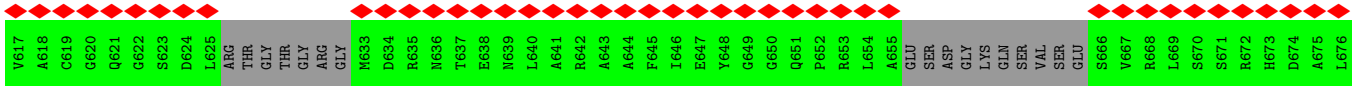


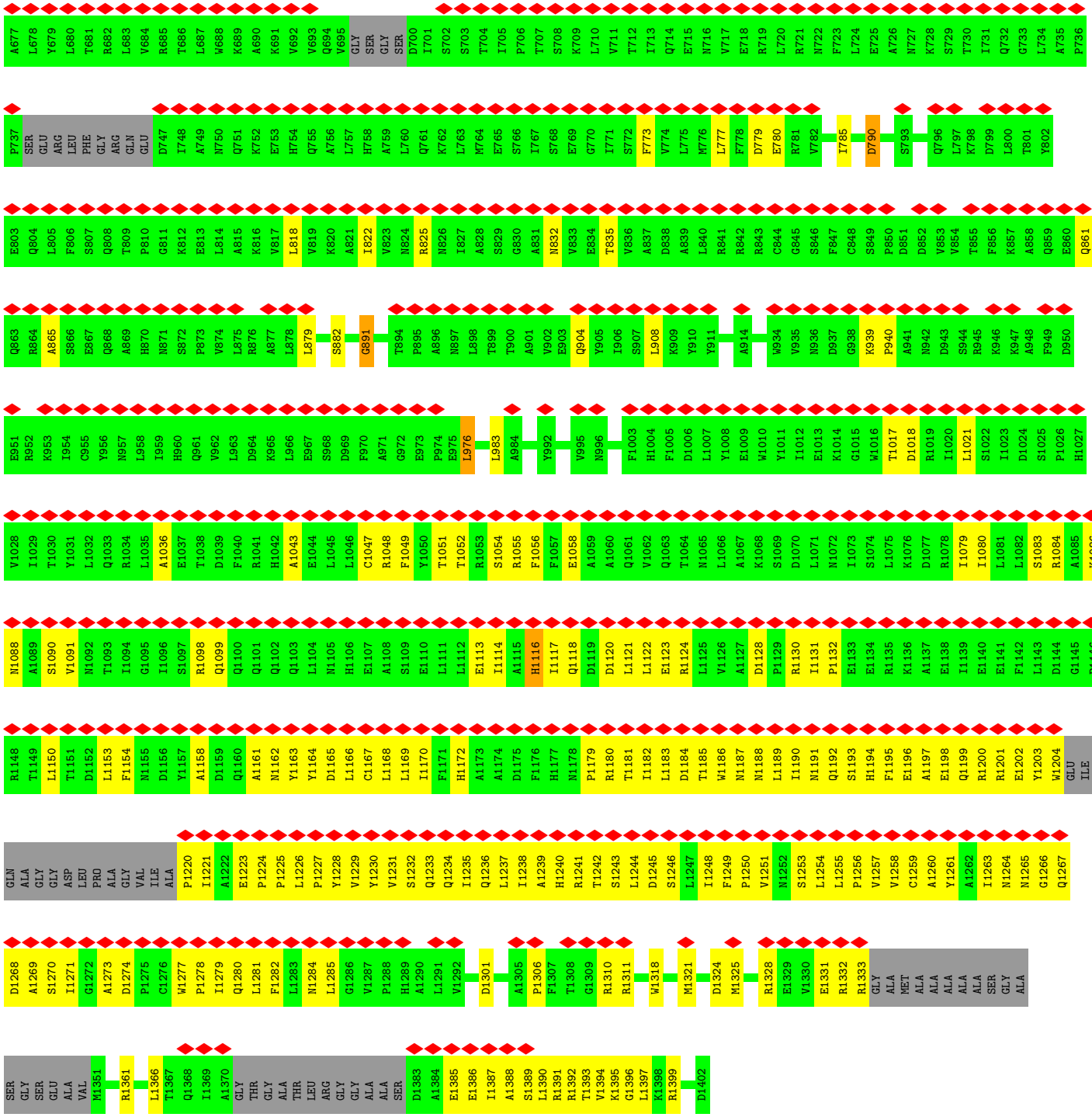






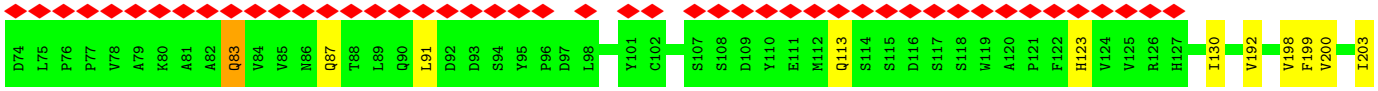


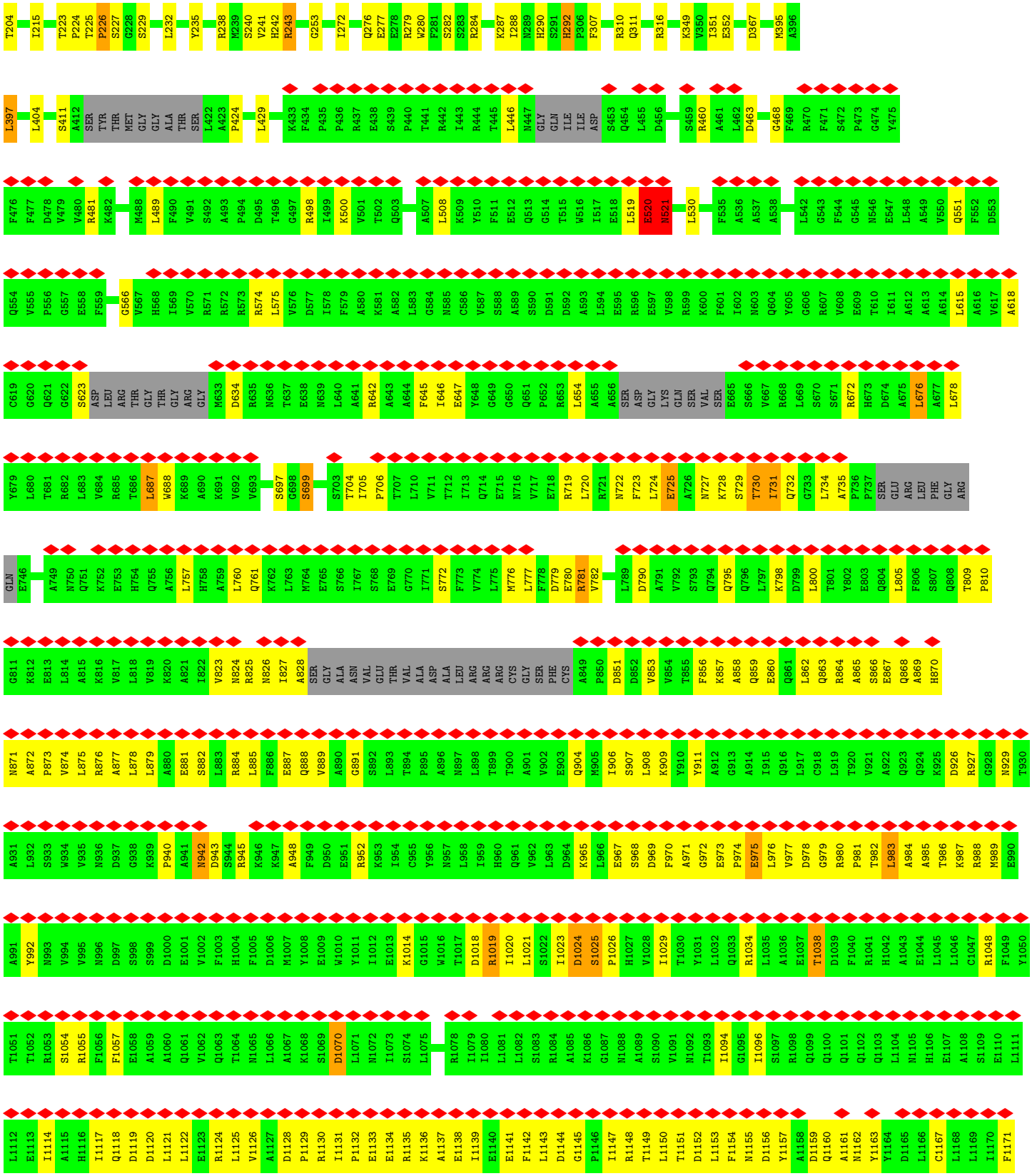




• Molecule 2: NUP155

Chain A2:

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L397 L404 S411 A412 SER TYR THR MET GLY GLY ALA THR SER L422 A423 P424 L429 K433 F434 P435 P436 R437 E438 S439 P440 T441 R442 I443 R444 T445 L446 N447 GLY GLN ILE ASP S453 Q454 L455 D456 S459 R460 A461 L462 D463 G468 F469 R470 F471 S472 P473 G474 Y475
F476 F477 D478 V479 Y480 R481 K482 M488 L489 F490 V491 S492 A493 P494 D495 T496 G497 R498 T499 K500 V501 T502 Q503 A507 L508 K509 Y510 F511 E512 Q513 G514 T515 W516 I517 E518 L519 E520 N521 L530 F535 A536 A537 A538 L542 G543 F544 G545 N546 E547 L548 A549 V550 Q551 F552 D553
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Y679 L680 T681 R682 L683 V684 R685 T686 L687 W688 K689 A690 K691 V692 V693 S697 G698 S699 S703 T704 I705 P706 T707 L710 V711 T712 I713 Q714 E715 N716 V717 E718 R719 L720 R721 N722 F723 L724 E725 A726 N727 K728 S729 T730 I731 Q732 G733 L734 A735 P736 P737 SER GLU ARG LEU PHE GLY ARG
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A991 Y992 N993 V994 V995 N996 D997 S998 S999 D1000 E1001 V1002 F1003 H1004 F1005 D1006 M1007 Y1008 E1009 W1010 Y1011 I1012 E1013 K1014 G1015 W1016 T1017 D1018 R1019 I1020 L1021 S1022 I1023 D1024 S1025 P1026 H1027 V1028 I1029 T1030 Y1031 L1032 Q1033 R1034 L1035 A1036 E1037 T1038 D1039 F1040 R1041 H1042 A1043 E1044 L1045 L1046 C1047 R1048 F1049 Y1050
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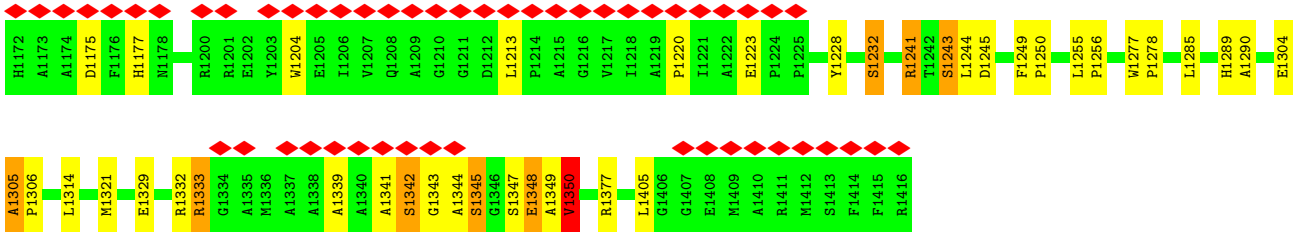
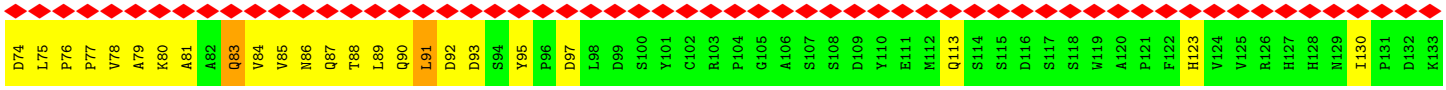
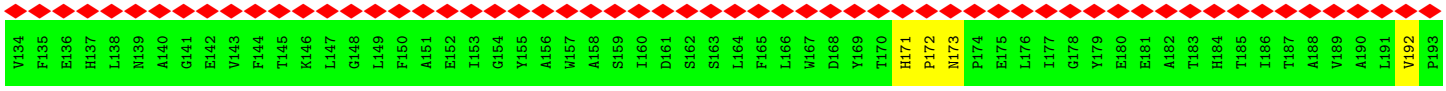
L1112 E1113 I1114 A1115 H1116 I1117 Q1118 D1119 D1120 L1121 L1122 E1123 R1124 L1125 V1126 A1127 D1128 P1129 R1130 I1131 P1132 E1133 E1134 R1135 K1136 A1137 E1138 I1139 E1140 E1141 F1142 L1143 D1144 G1145 P1146 I1147 R1148 T1149 L1150 T1151 D1152 L1153 F1154 N1155 D1156 Y1157 A1158 D1159 Q1160 A1161 N1162 Y1163 Y1164 D1165 L1166 C1167 L1168 L1169 I1170 F1171

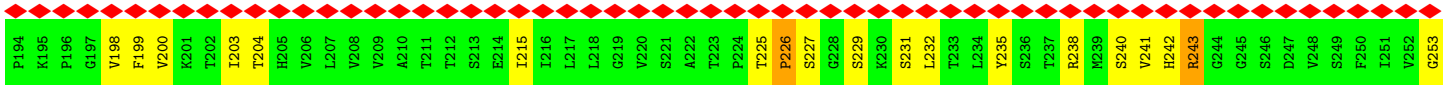


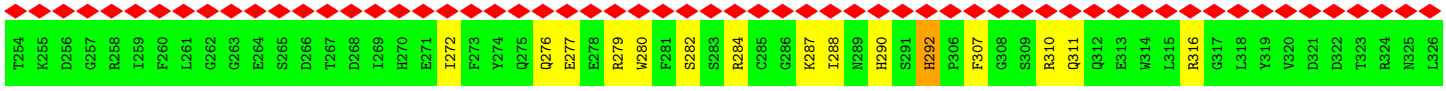
• Molecule 2: NUP155

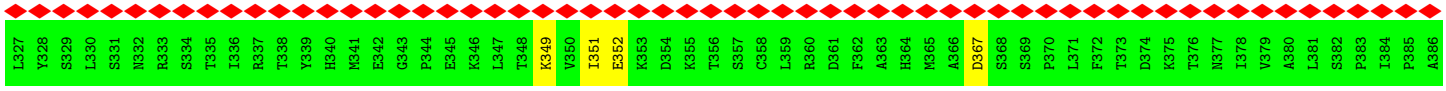
Chain A4:

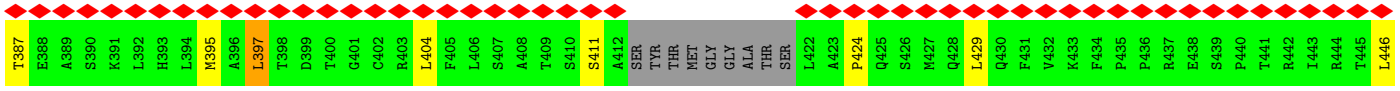


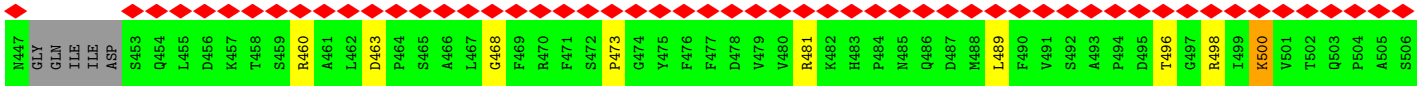


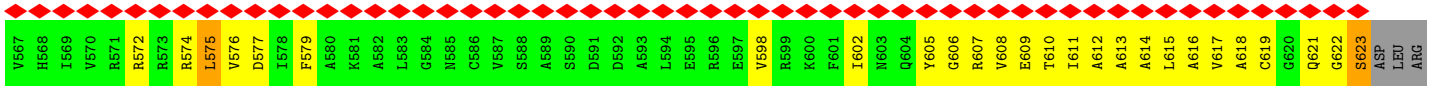


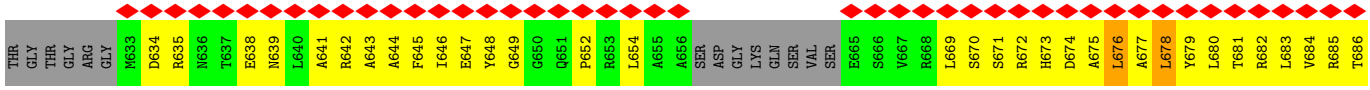


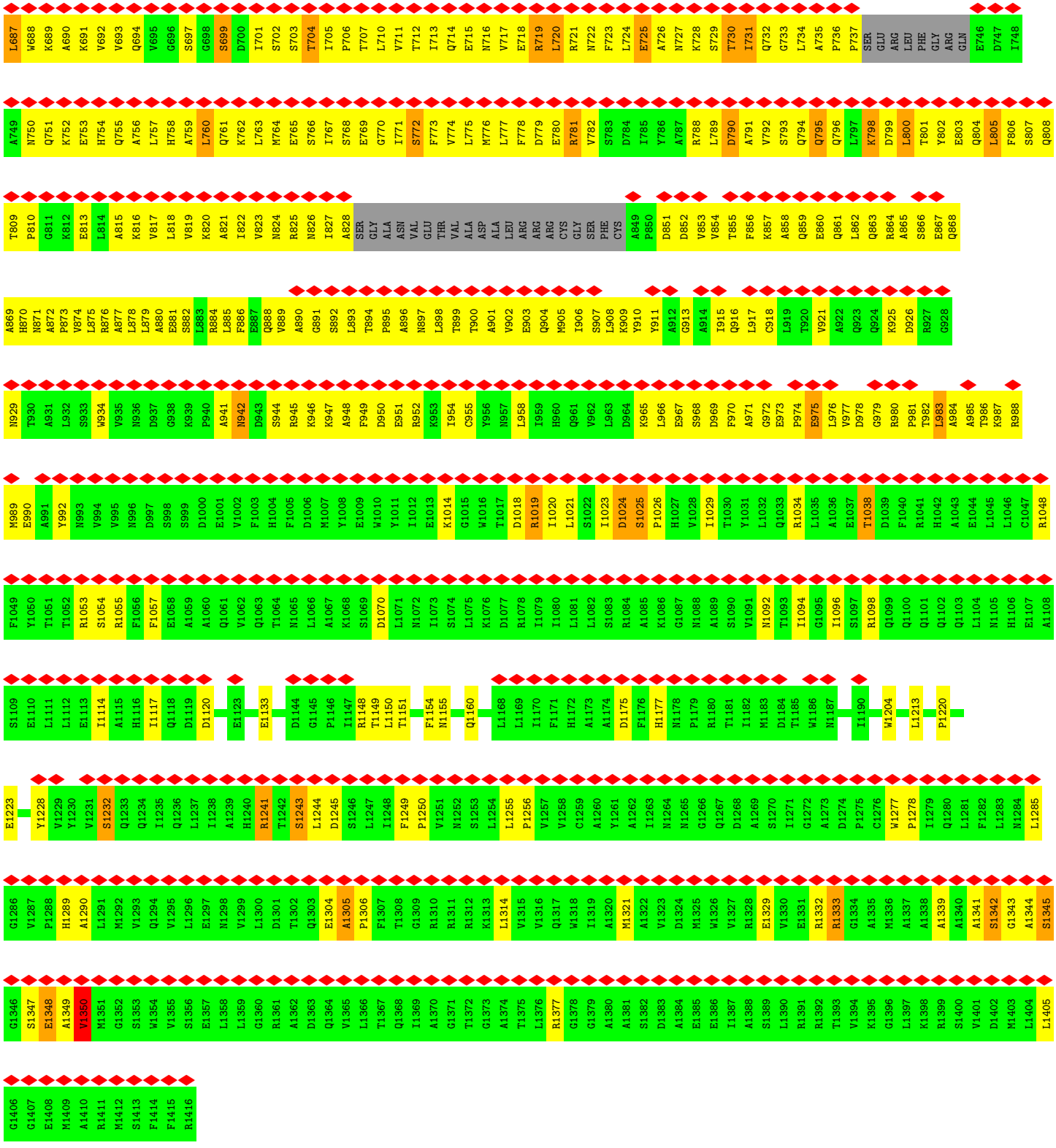




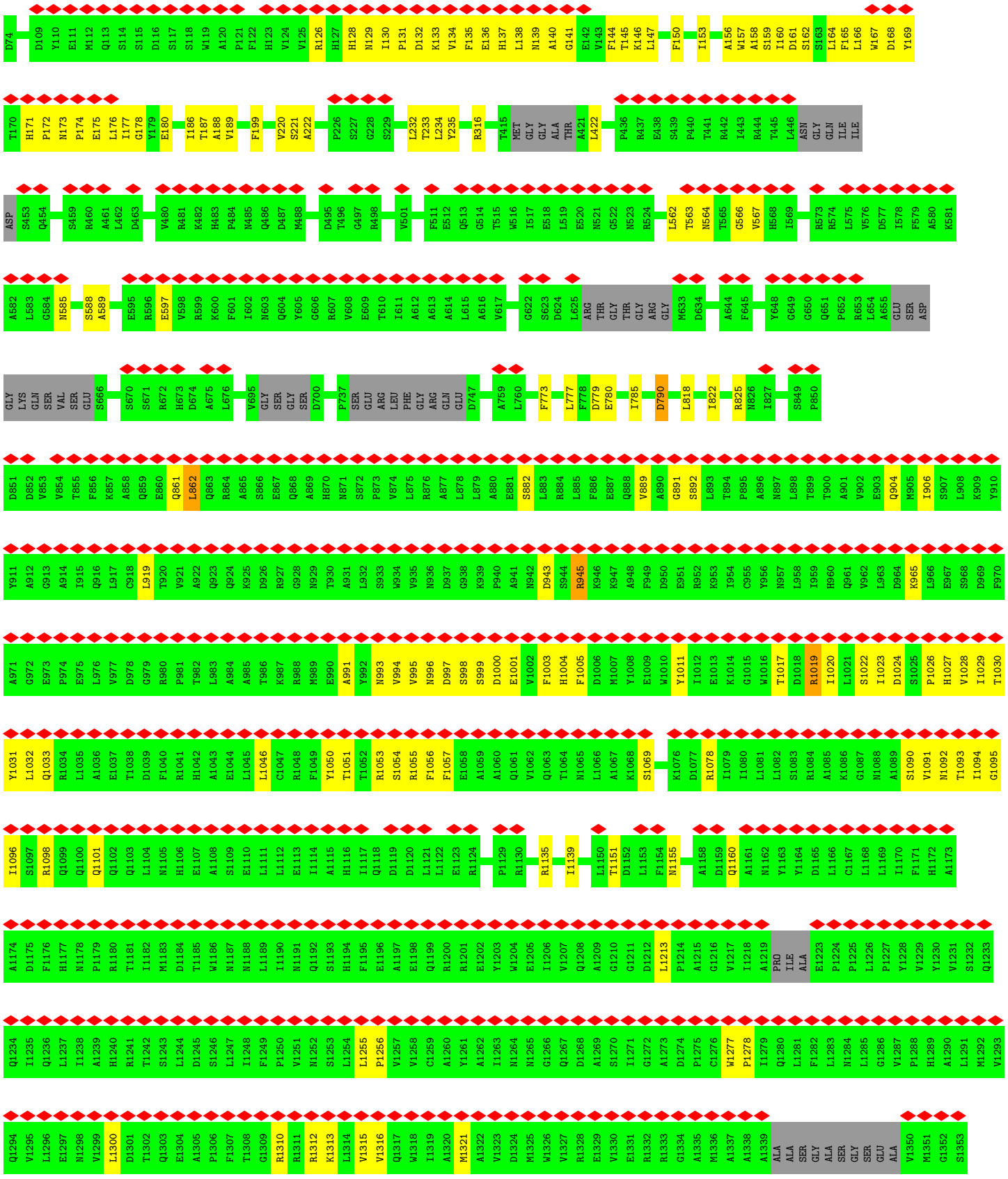








• Molecule 3: NUP155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T170 H171 P172 N173 P174 E175 L176 I177 G178 Y179 E180 I186 T187 A188 V189 F199 V220 S221 A222 P226 S227 G228 S229 L232 T233 L234 Y235 R316 T415 MET GLY GLY ALA THR A421 L422 P436 R437 E438 S439 P440 T441 R442 I443 R444 T445 L446 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 N523 R524 L562 T563 N564 T565 G566 V567 H568 I569 R573 R574 L575 V576 D577 I578 F579 A580 K581
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GLY LYS GLN SER VAL SER GLU S666 S670 S671 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 V854 T855 F856 K857 A858 Q859 E860 Q861 L862 Q863 R864 A865 S866 E867 Q868 A869 H870 N871 S872 P873 V874 L875 R876 A877 L878 L879 A880 E881 S882 L883 R884 L885 F886 E887 Q888 V889 A890 G891 S892 L893 T894 P895 A896 N897 L898 T899 T900 A901 V902 E903 Q904 M905 I906 S907 L908 K909 Y910
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I1096 S1097 R1098 Q1099 Q1100 Q1101 Q1102 Q1103 L1104 N1105 H1106 E1107 A1108 S1109 E1110 L1111 L1112 E1113 I1114 A1115 H1116 I1117 Q1118 D1119 D1120 L1121 L1122 E1123 R1124 P1129 R1130 R1135 I1139 L1150 T1151 D1152 L1153 F1154 N1155 A1158 D1159 Q1160 A1161 N1162 Y1163 Y1164 D1165 L1166 C1167 L1168 L1169 I1170 F1171 H1172 A1173
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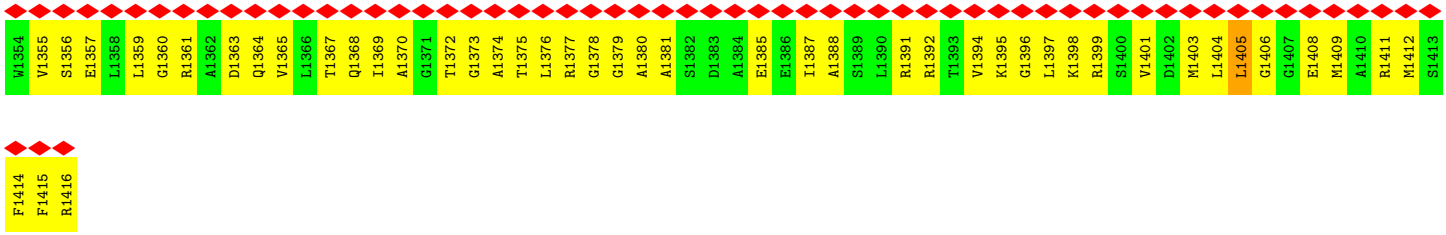
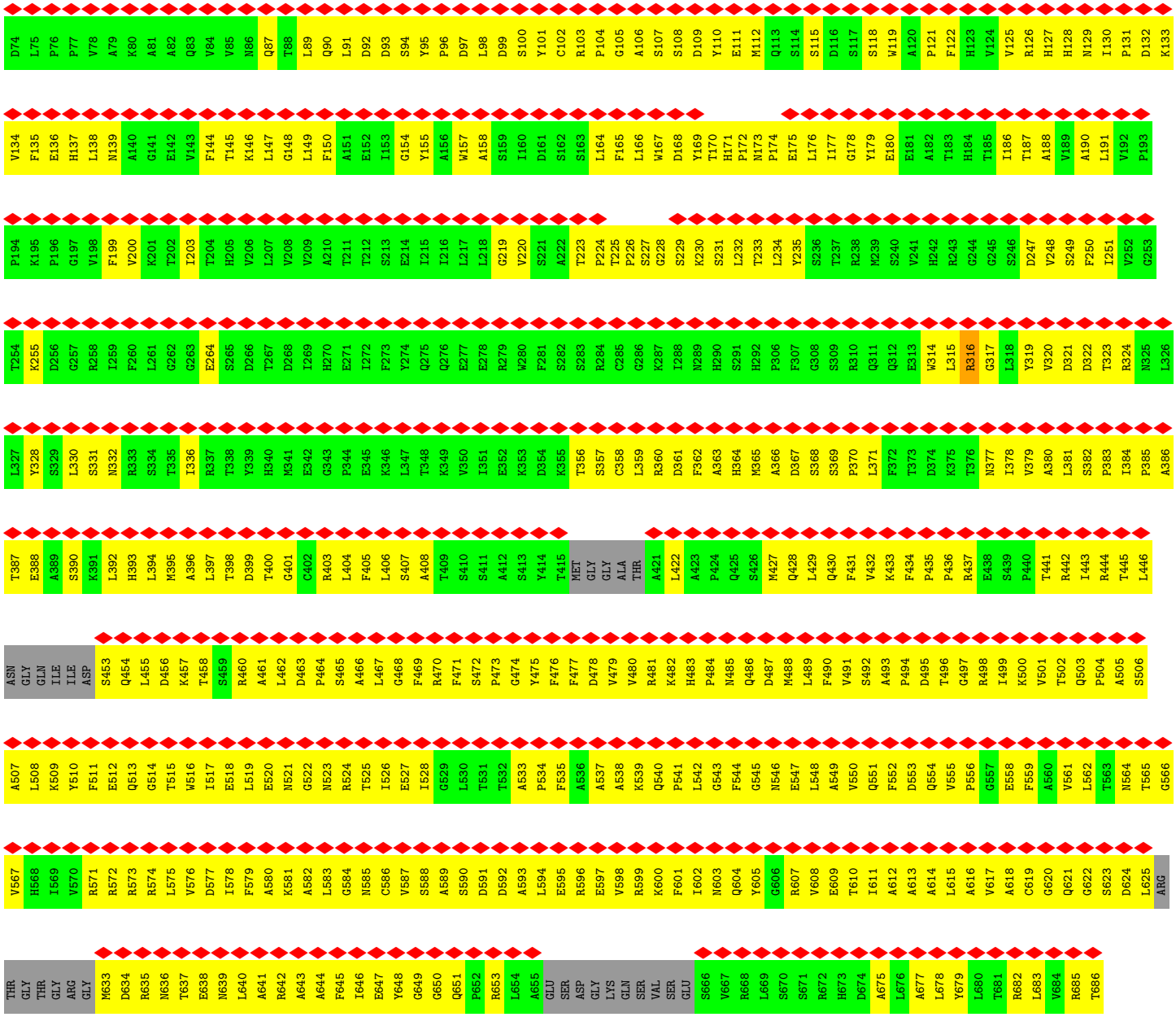
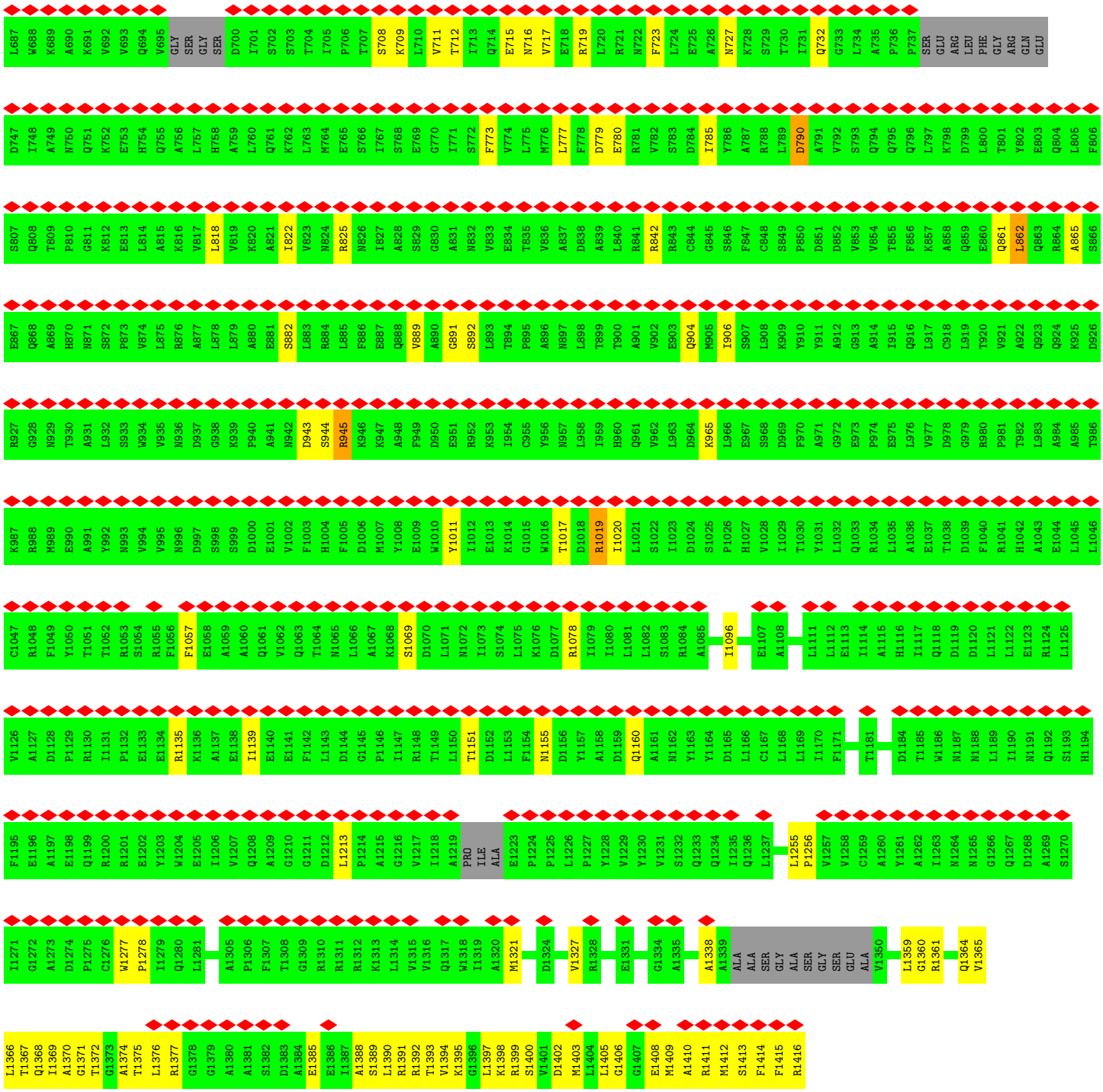
Q1234 I1235 Q1236 L1237 I1238 A1239 H1240 R1241 T1242 S1243 L1244 D1245 S1246 L1247 I1248 F1249 P1250 V1251 N1252 S1253 L1254 L1255 P1256 V1257 V1258 C1259 A1260 Y1261 A1262 I1263 N1264 N1265 G1266 Q1267 D1268 A1269 S1270 I1271 G1272 A1273 D1274 P1275 C1276 W1277 P1278 I1279 Q1280 L1281 F1282 L1283 N1284 L1285 G1286 V1287 P1288 H1289 A1290 L1291 M1292 V1293
Q1294 V1295 L1296 E1297 N1298 V1299 L1300 D1301 T1302 Q1303 E1304 A1305 P1306 F1307 T1308 G1309 R1310 R1311 R1312 K1313 L1314 V1315 V1316 Q1317 W1318 I1319 A1320 M1321 A1322 V1323 D1324 M1325 W1326 V1327 R1328 E1329 V1330 E1331 R1332 R1333 G1334 A1335 M1336 A1337 A1338 A1339 ALA ALA SER GLY ALA SER GLY SER GLU ALA V1350 M1351 G1352 S1353



• Molecule 3: NUP155

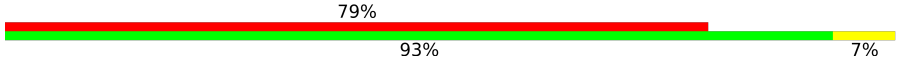
Chain A6:

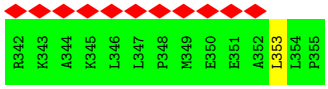




• Molecule 4: NUP53 R3

Chain B1:



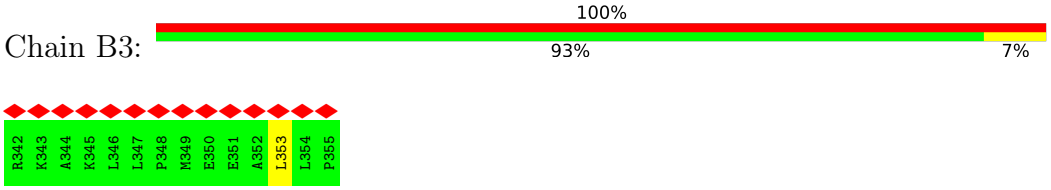


• Molecule 4: NUP53 R3

Chain B2:

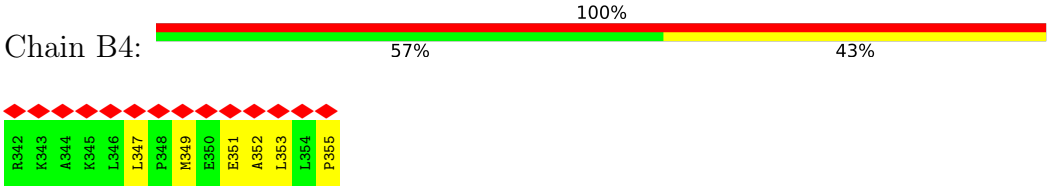
• Molecule 4: NUP53 R3

Chain B3:



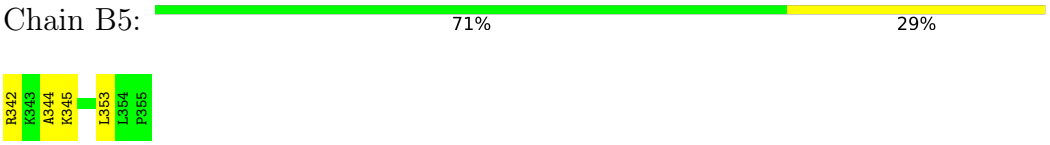
• Molecule 4: NUP53 R3

Chain B4:



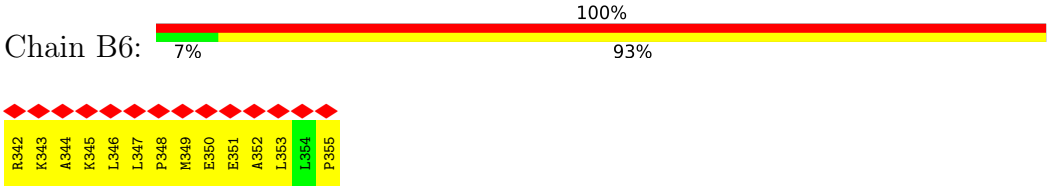
• Molecule 4: NUP53 R3

Chain B5:



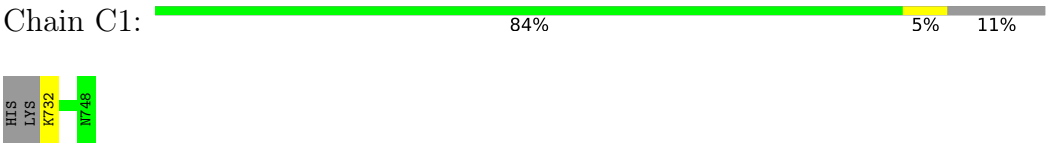
• Molecule 4: NUP53 R3

Chain B6:



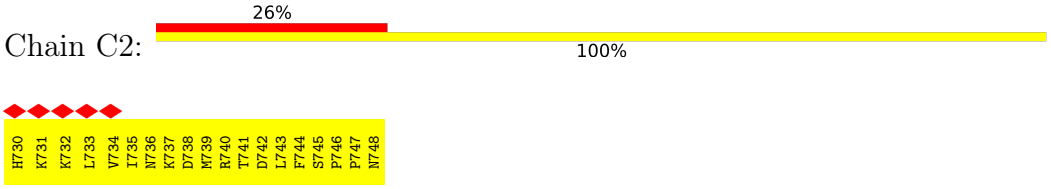
• Molecule 5: NUP98 R3

Chain C1:



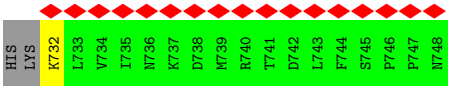
• Molecule 5: NUP98 R3

Chain C2:



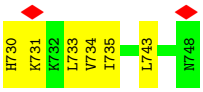
• Molecule 5: NUP98 R3

Chain C3:



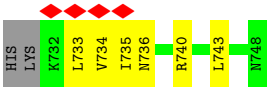
• Molecule 5: NUP98 R3

Chain C4:



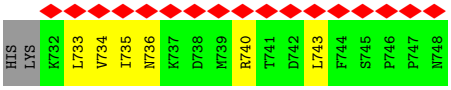
• Molecule 5: NUP98 R3

Chain C5:



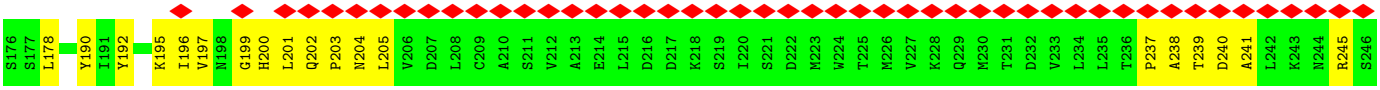
• Molecule 5: NUP98 R3

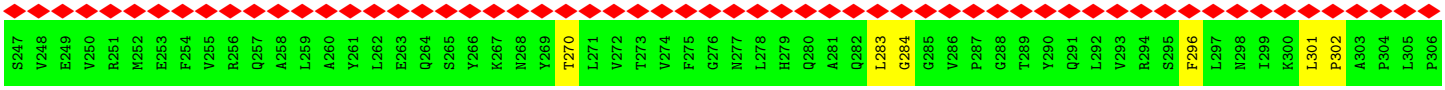
Chain C6:

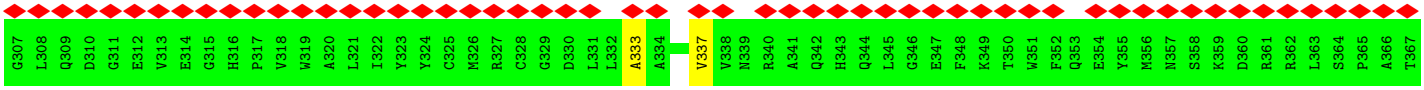


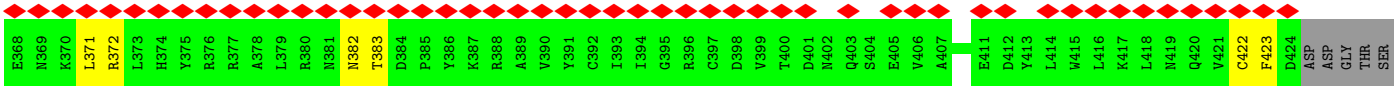
• Molecule 6: NUP93 SOL

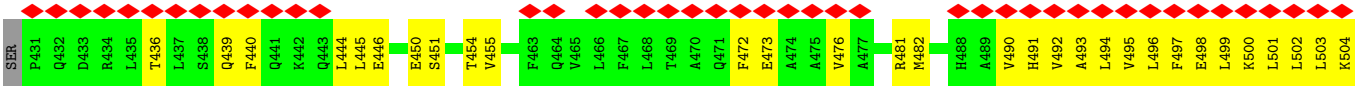
Chain D1:

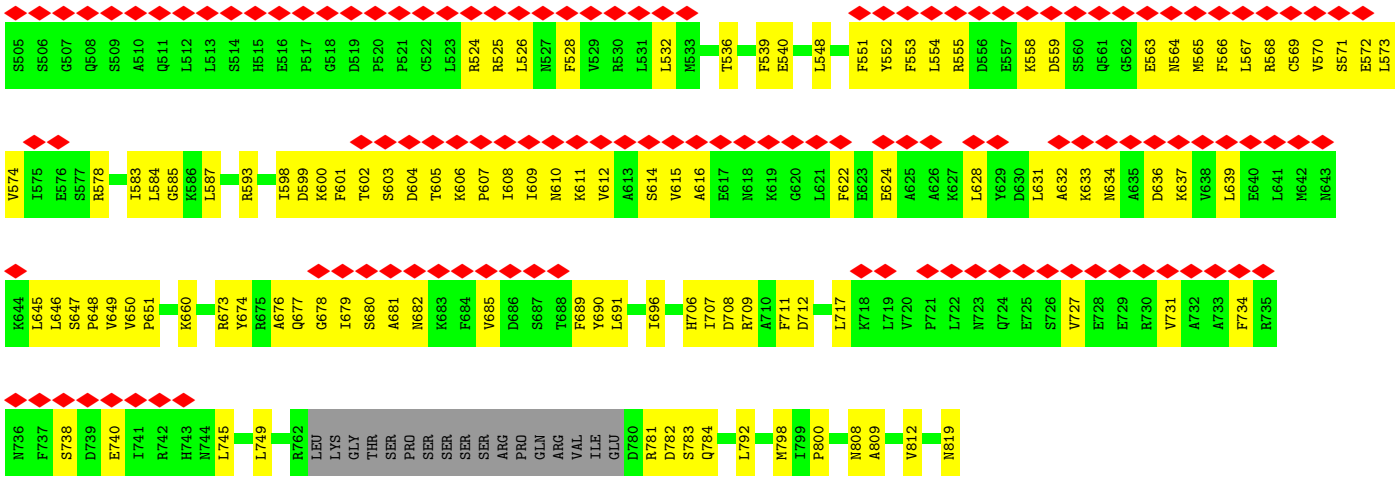






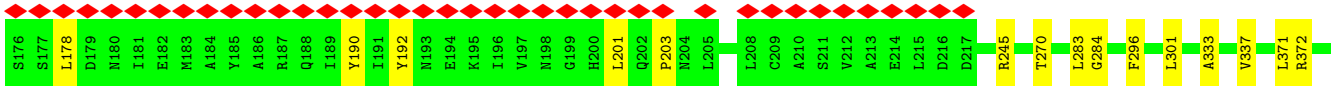


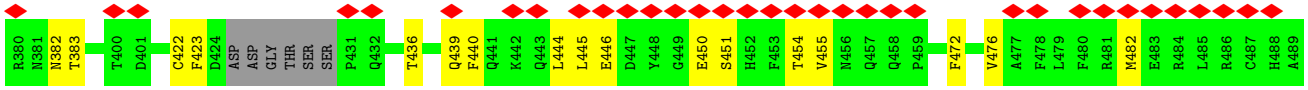


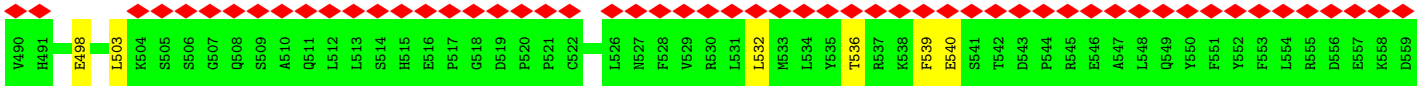


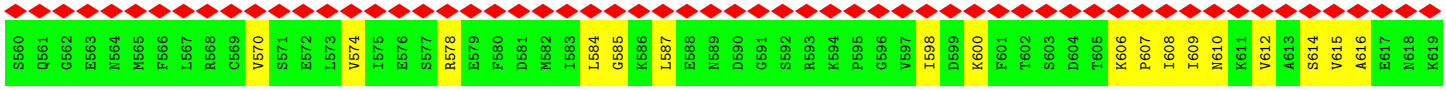
- Molecule 6: NUP93 SOL

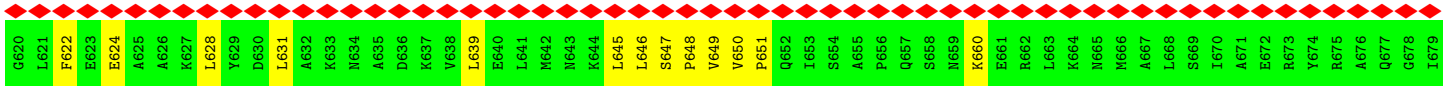
Chain D2:

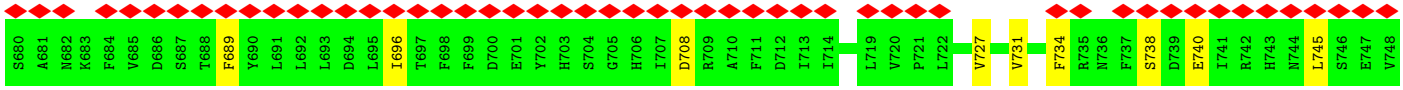


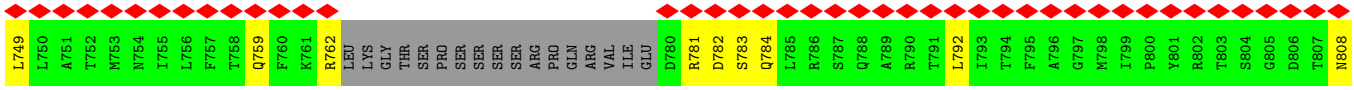


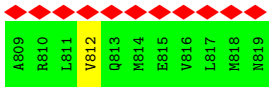






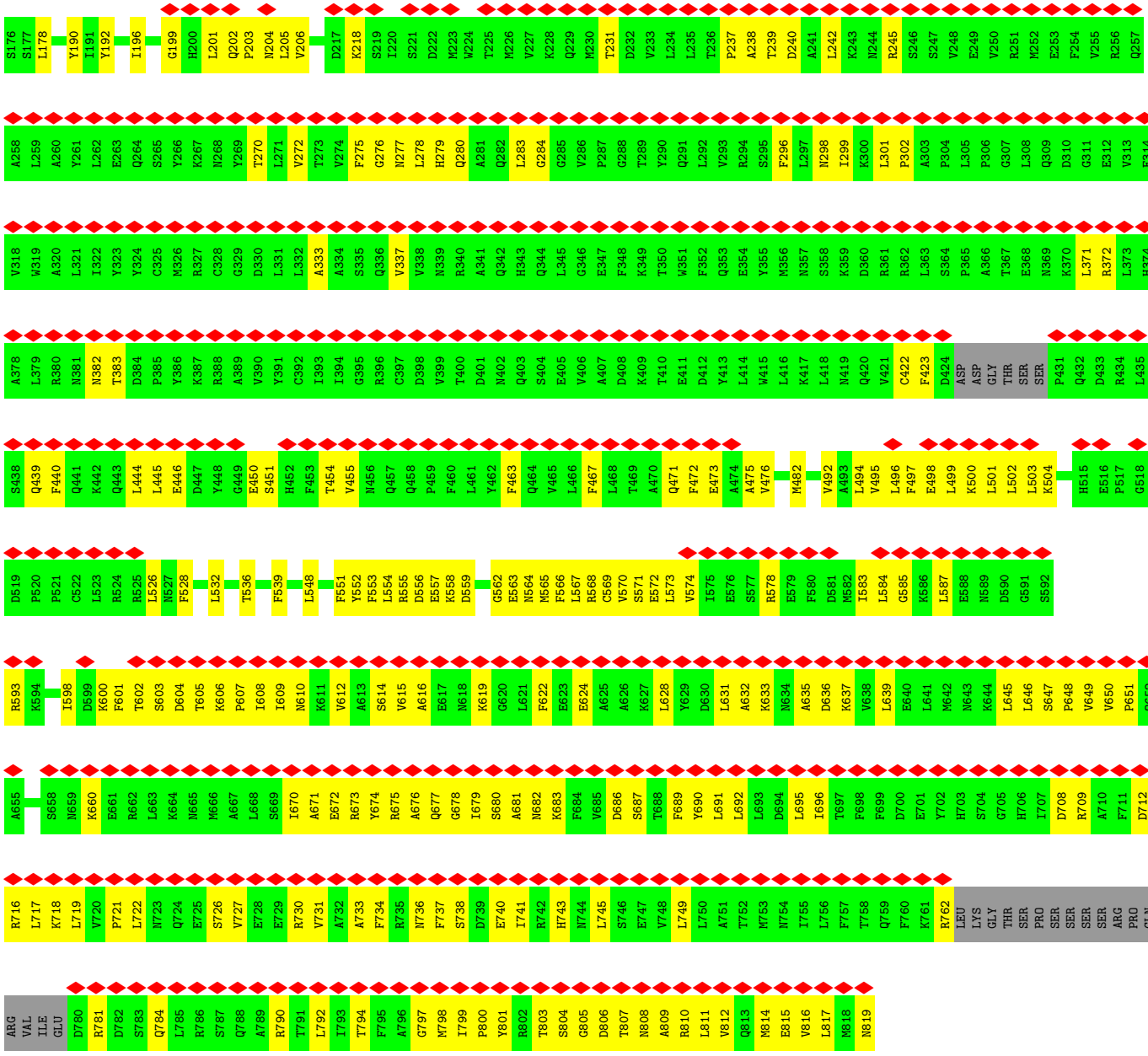






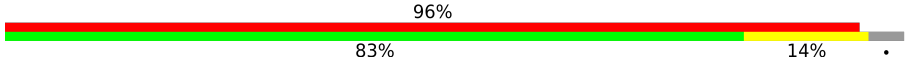
- Molecule 6: NUP93 SOL

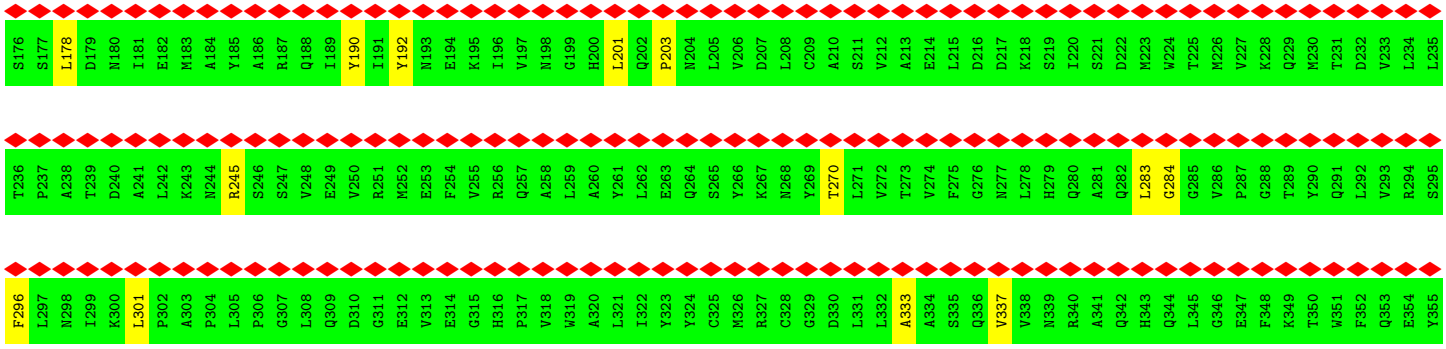
Chain D3:

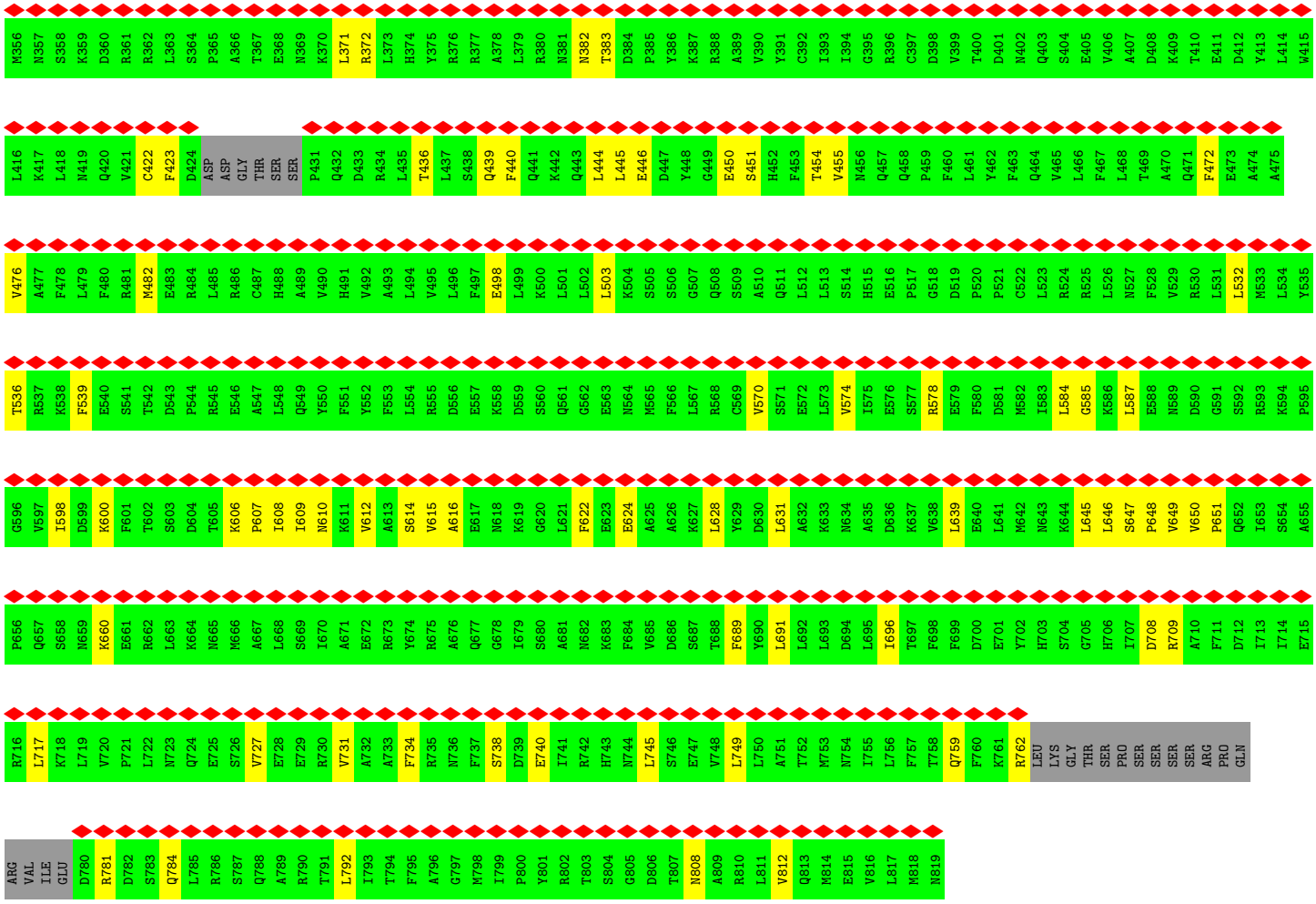


- Molecule 6: NUP93 SOL

Chain D4:

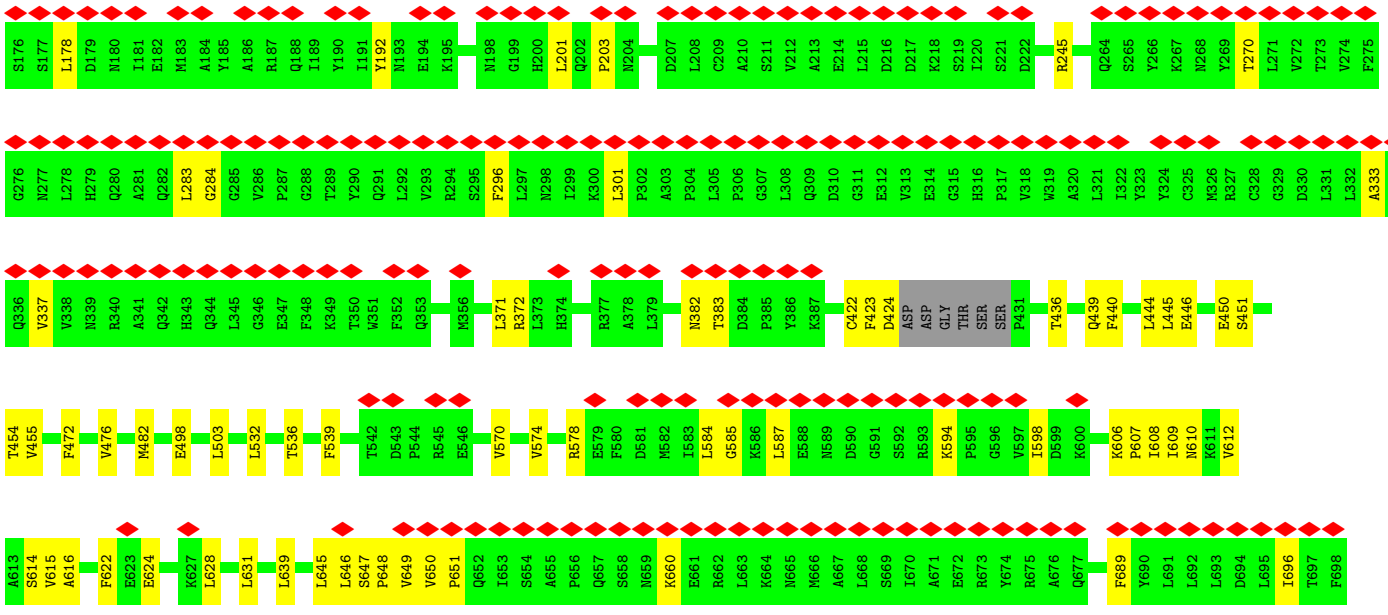


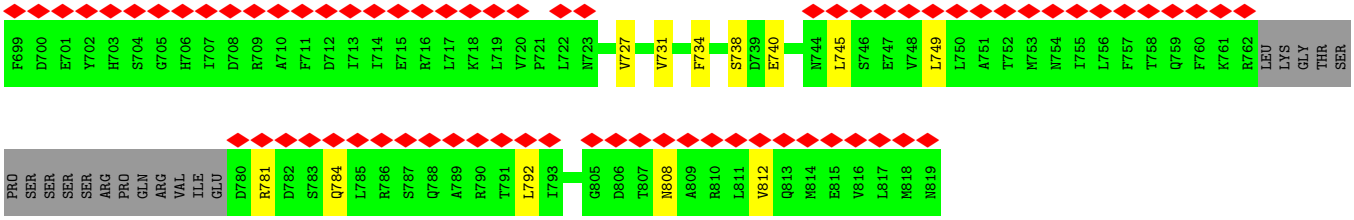




• Molecule 6: NUP93 SOL

Chain D5:



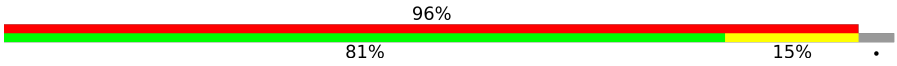


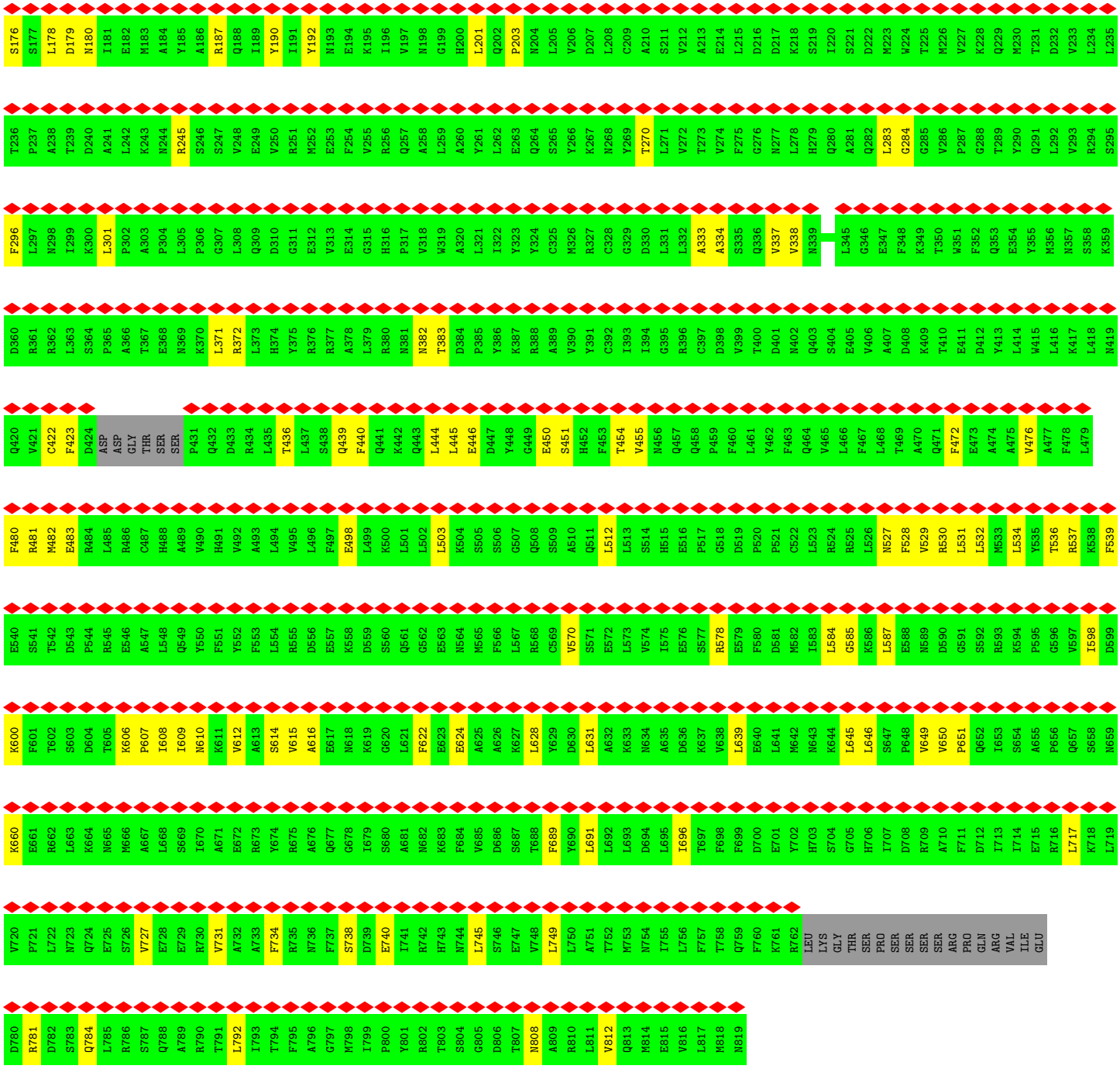
• Molecule 6: NUP93 SOL

Chain D6:

• Molecule 6: NUP93 SOL

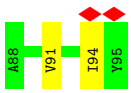
Chain D7:





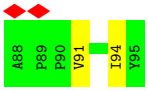
• Molecule 7: NUP53 R2

Chain E1:



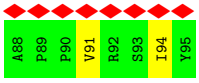
• Molecule 7: NUP53 R2

Chain E2:



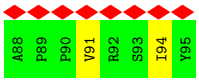
• Molecule 7: NUP53 R2

Chain E3:



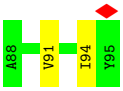
• Molecule 7: NUP53 R2

Chain E4:



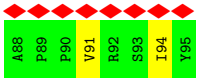
• Molecule 7: NUP53 R2

Chain E5:



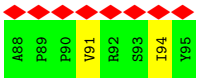
• Molecule 7: NUP53 R2

Chain E6:



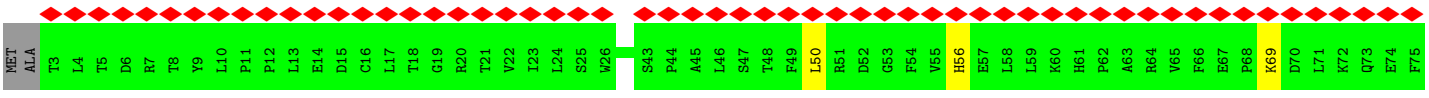
• Molecule 7: NUP53 R2

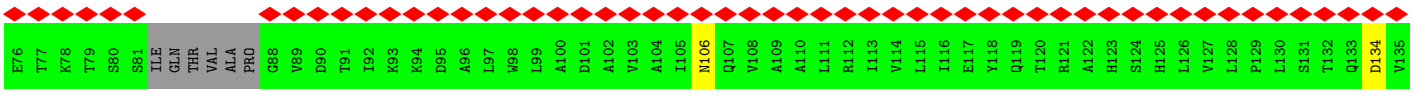
Chain E7:

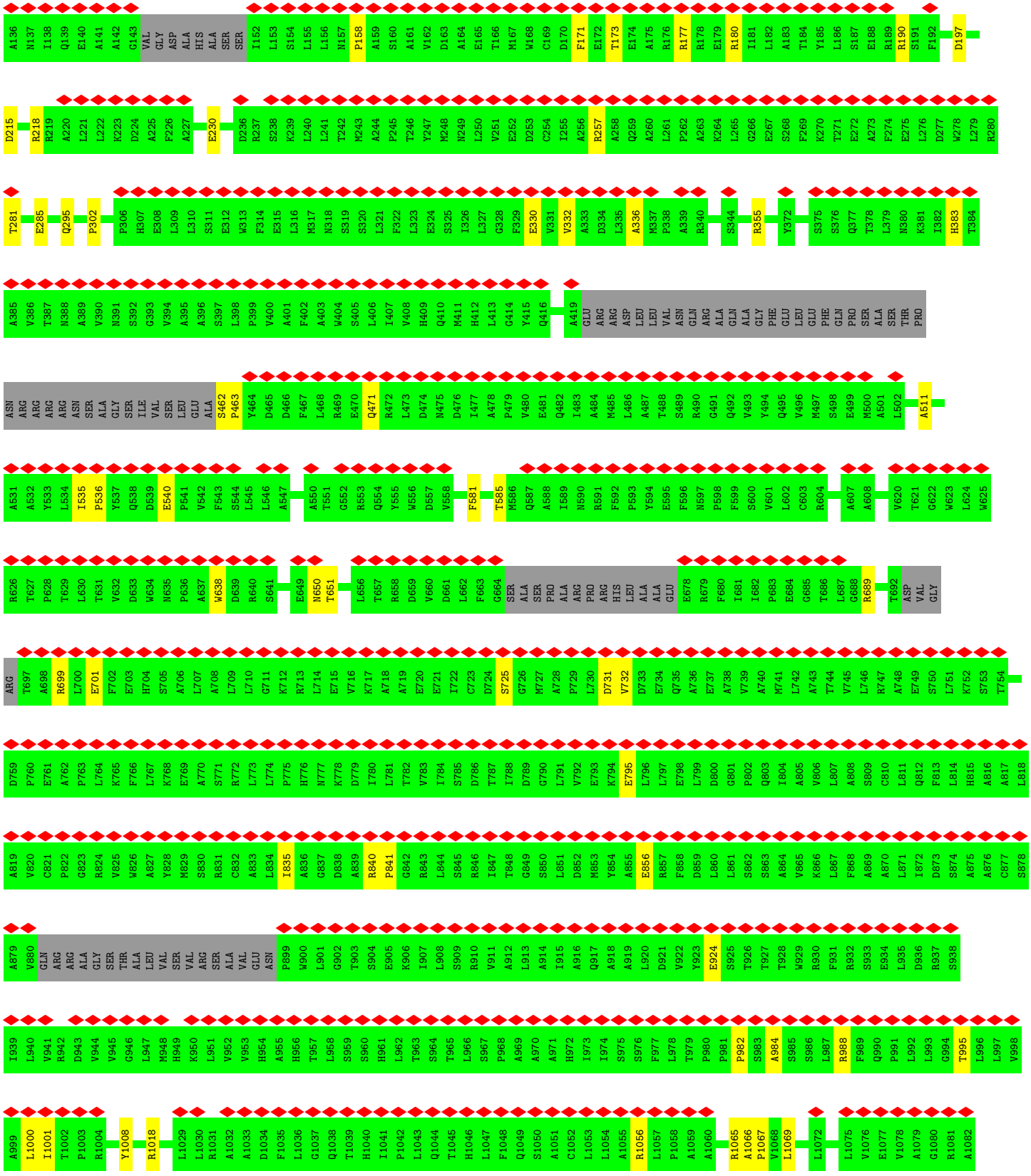


• Molecule 8: NUP188

Chain F1:






A136 N137 I138 Q139 E140 A141 A142 G143 VAL GLY ASP ALA HIS ALA SER SER I152 L153 S154 L155 L156 N157 P158 A159 S160 A161 V162 D163 A164 E165 T166 M167 W168 C169 D170 F171 E172 T173 E174 A175 R176 R177 R178 E179 R180 I181 L182 A183 T184 Y185 L186 S187 E188 R189 R190 S191 F192 D197
D215 R218 R219 A220 L221 L222 K223 D224 A225 F226 A227 E230 D236 R237 S238 K239 L240 L241 T242 M243 A244 P245 T246 Y247 M248 N249 L250 V251 E252 D253 C254 I255 A256 R257 A258 Q259 A260 L261 P262 A263 K264 L265 G266 E267 S268 F269 K270 T271 E272 A273 F274 E275 L276 D277 W278 L279 R280
T281 E285 Q295 P302 P306 H307 E308 L309 L310 S311 E312 W313 F314 E315 L316 M317 N318 S319 S320 L321 F322 L323 E324 S325 I326 L327 G328 F329 E330 V331 V332 A333 D334 L335 A336 M337 P338 A339 R340 S344 R355 Y372 S376 S376 Q377 T378 L379 N380 K381 I382 H383 T384
A385 V386 T387 N388 A389 V390 N391 S392 G393 V394 A395 A396 S397 L398 P399 V400 A401 F402 A403 W404 S405 L406 I407 V408 H409 Q410 M411 H412 L413 G414 Y415 Q416 A419 GLU ARG ARG ASP LEU LEU VAL ASN GLN ARG ALA GLN ALA GLY PHE GLU LEU GLU PHE GLN PRO SER ALA SER THR PRO
ASN ARG ARG ARG ARG ASN SER ALA GLY SER ILE VAL SER LEU GLU ALA S462 P463 Y464 D465 D466 F467 L468 R469 E470 Q471 R472 L473 D474 N475 D476 I477 A478 P479 V480 E481 Q482 I483 A484 M485 L486 A487 T488 S489 R490 G491 Q492 V493 Y494 Q495 V496 M497 S498 E499 M500 A501 L502 A511
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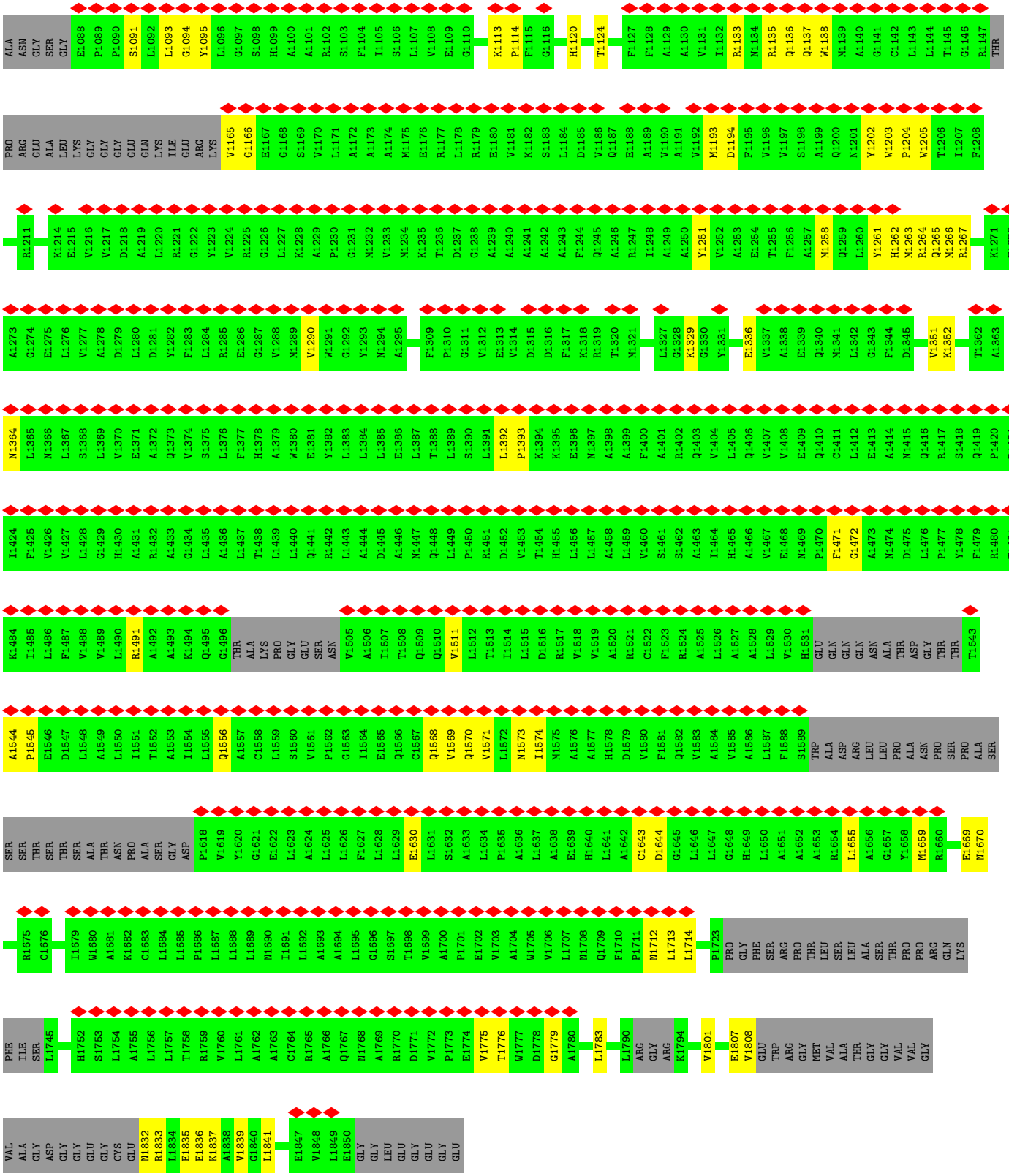

• Molecule 8: NUP188

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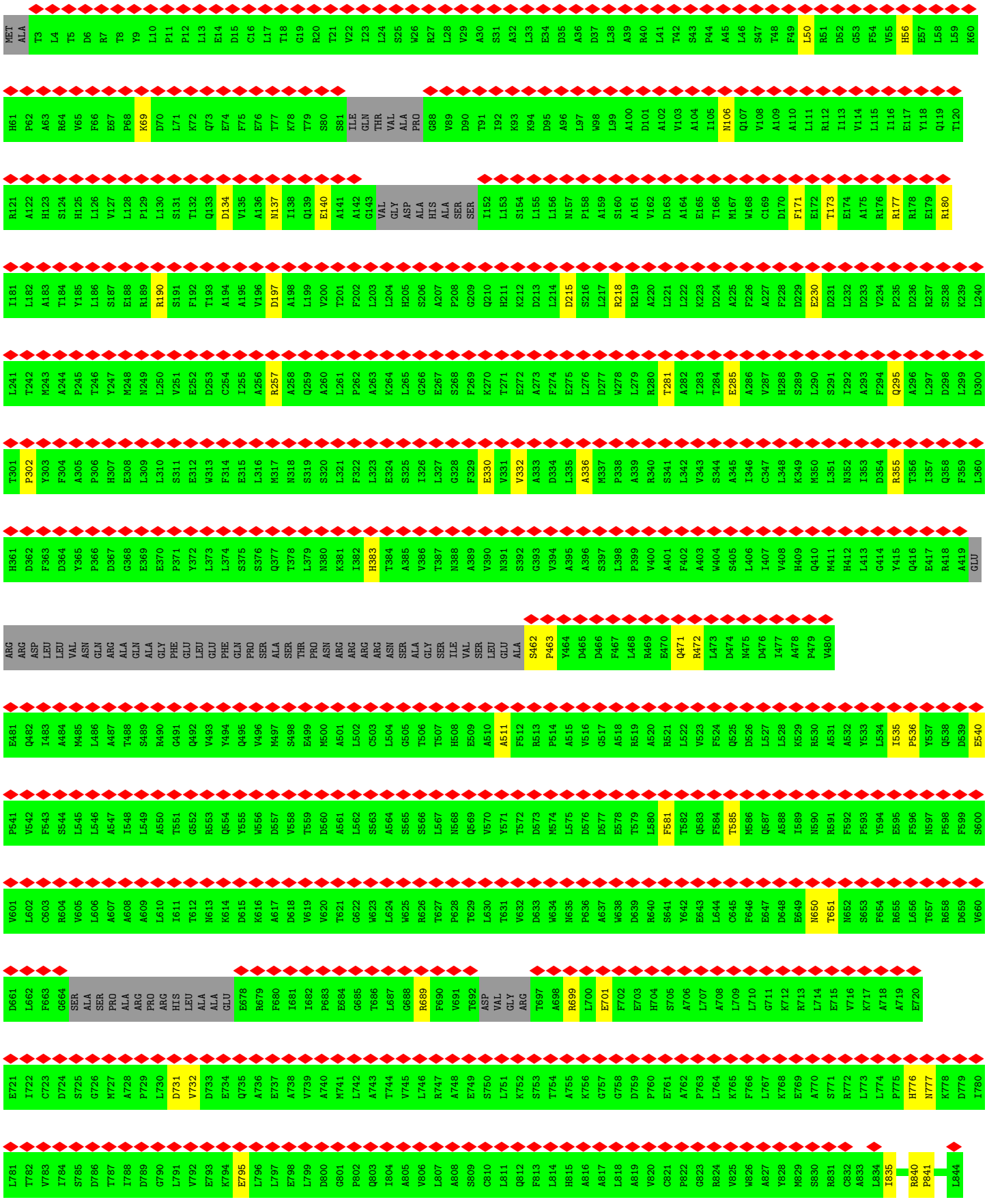
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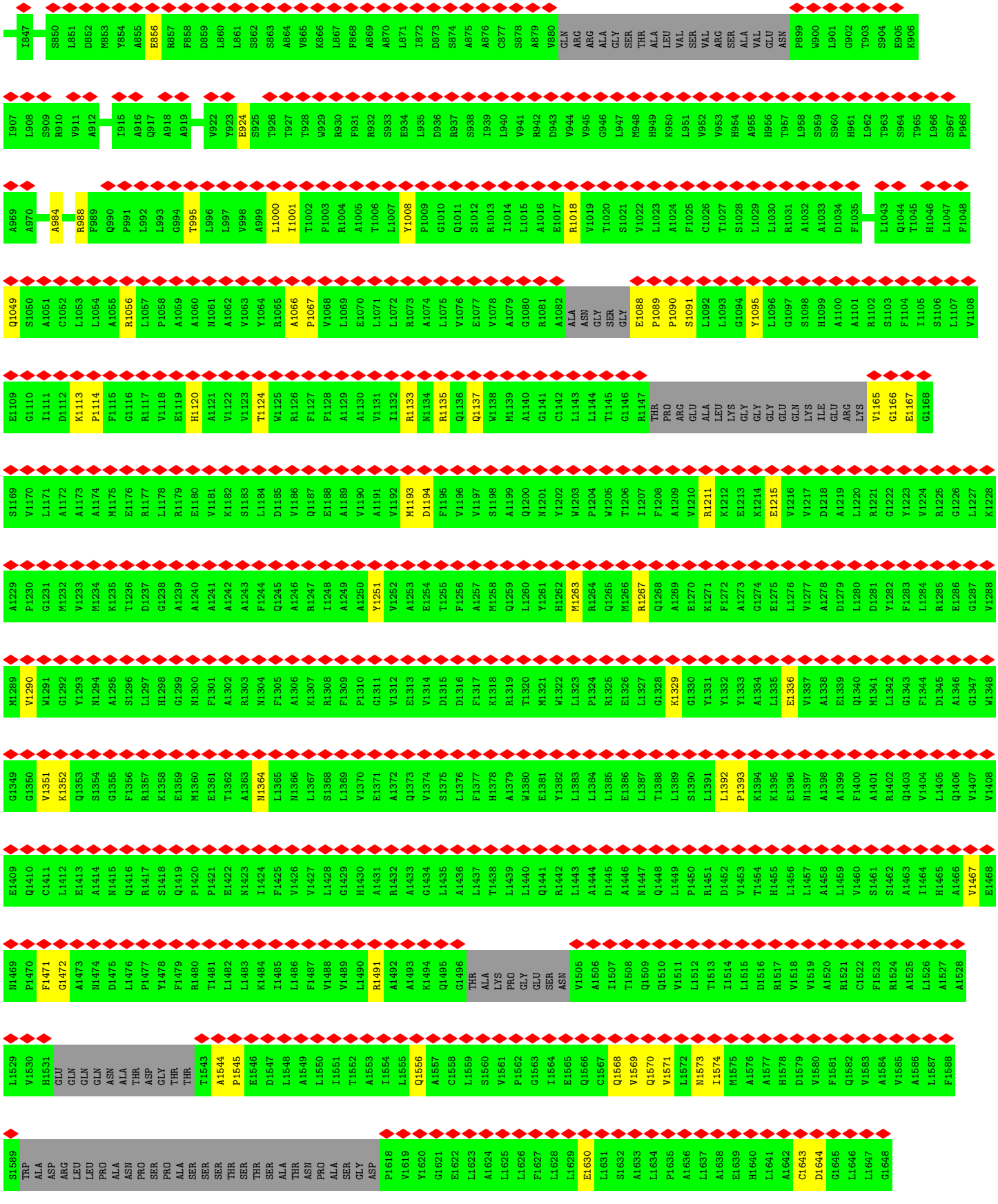
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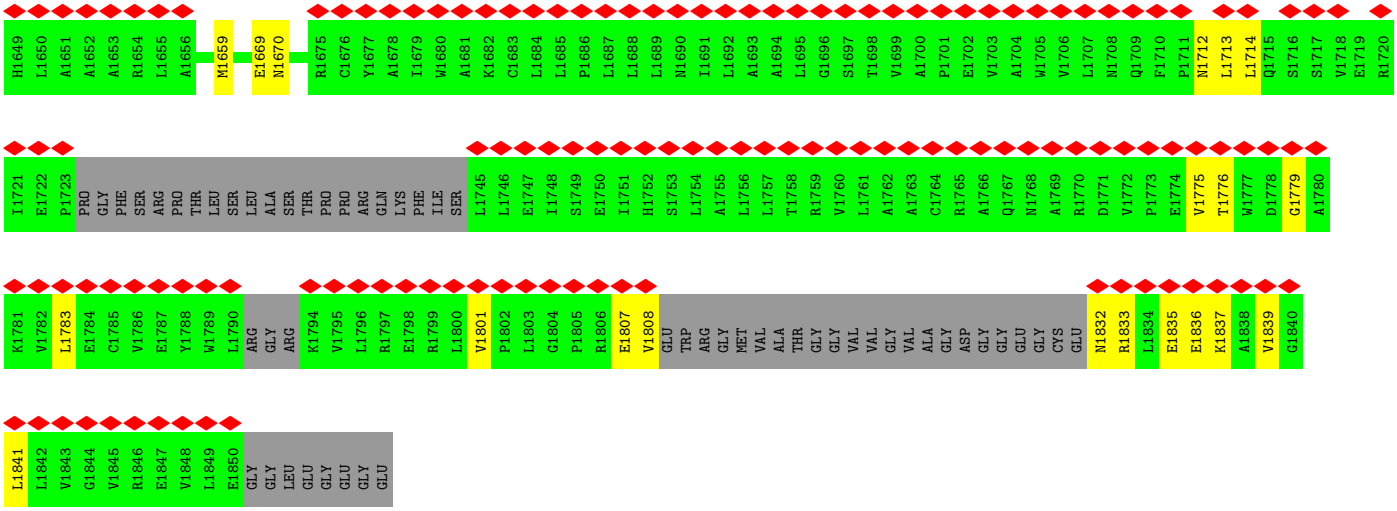

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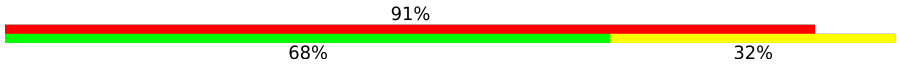

- Molecule 9: NUP93 R2

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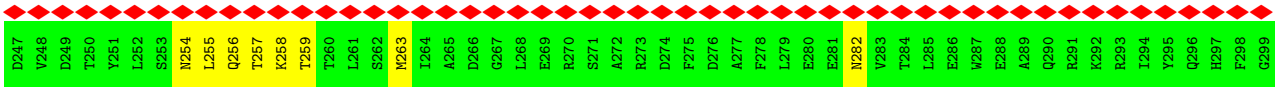

- Molecule 10: NUP98 R2

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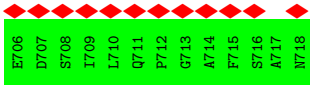

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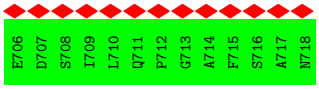

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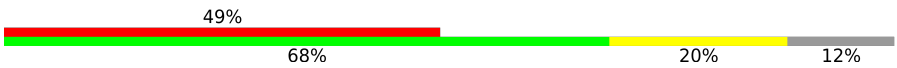

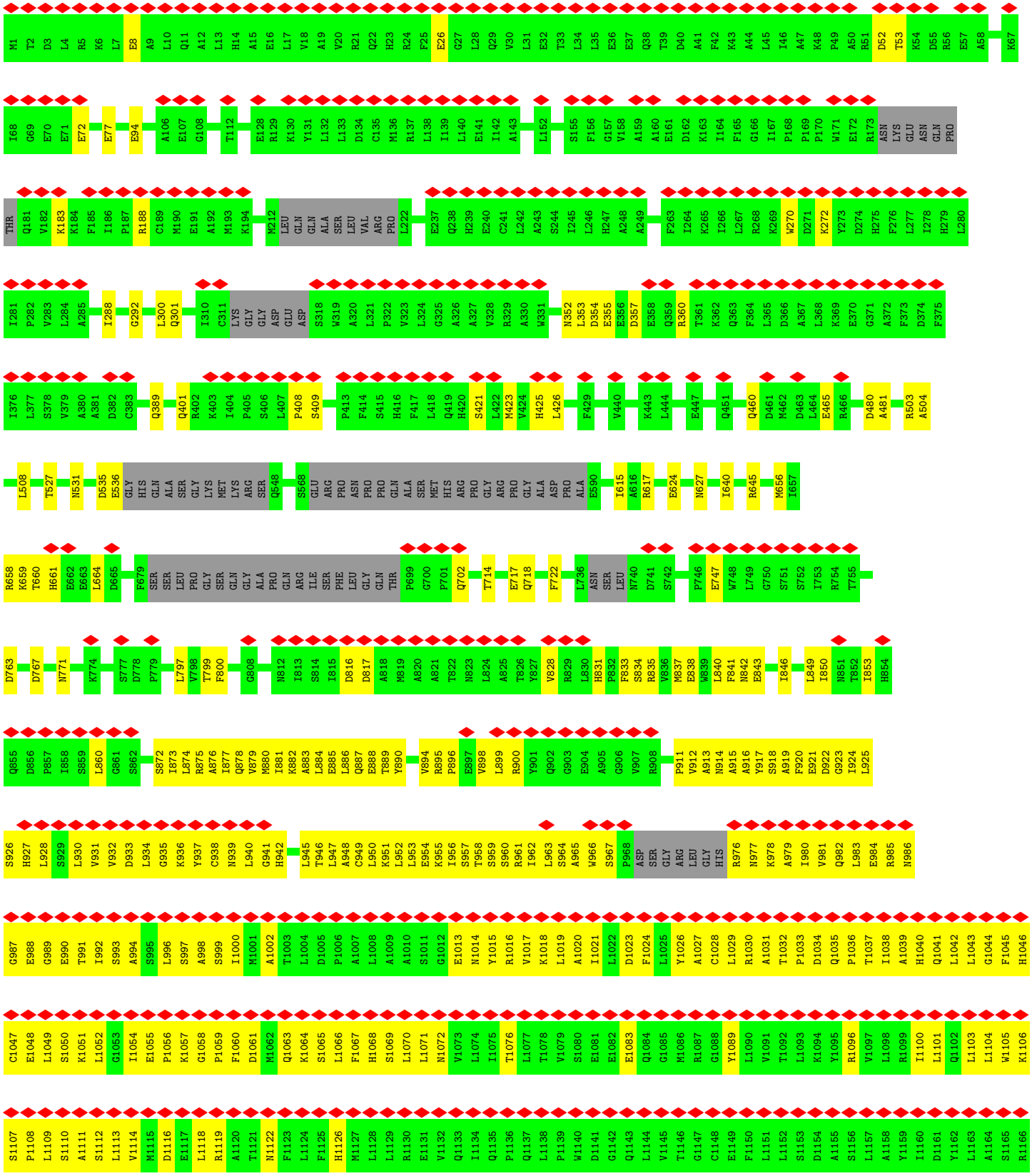
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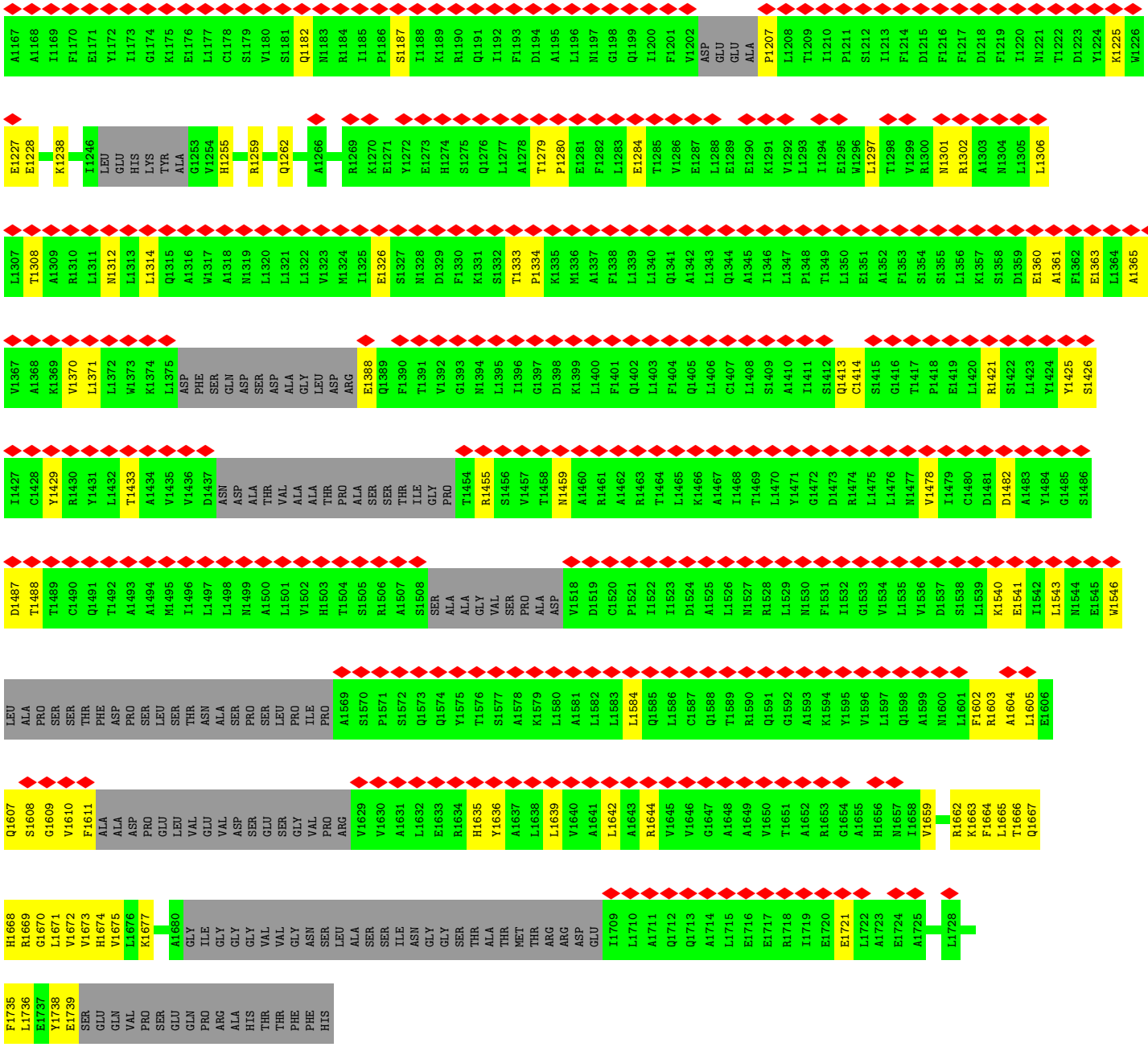
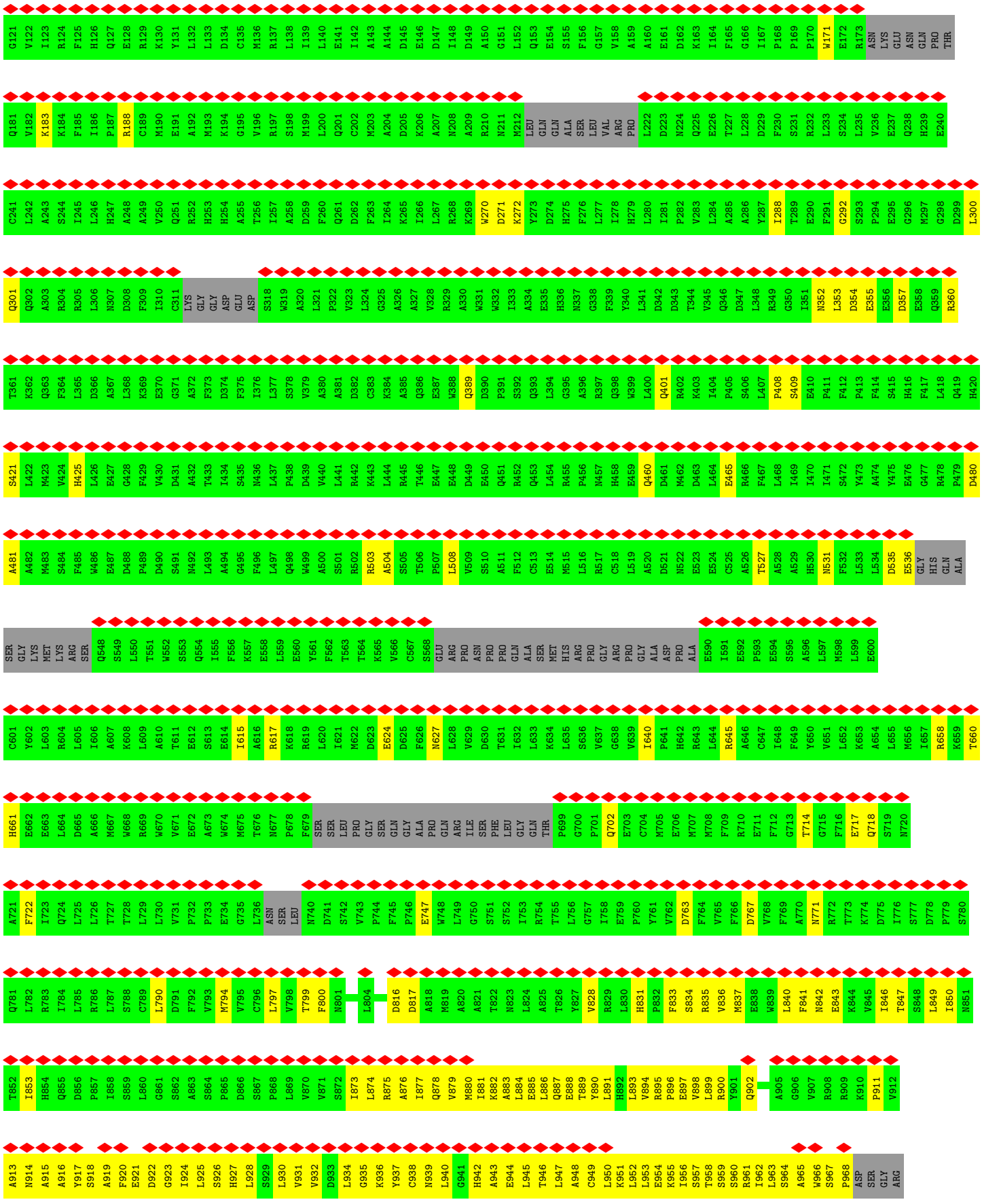


- Molecule 11: NUP205

Chain I2: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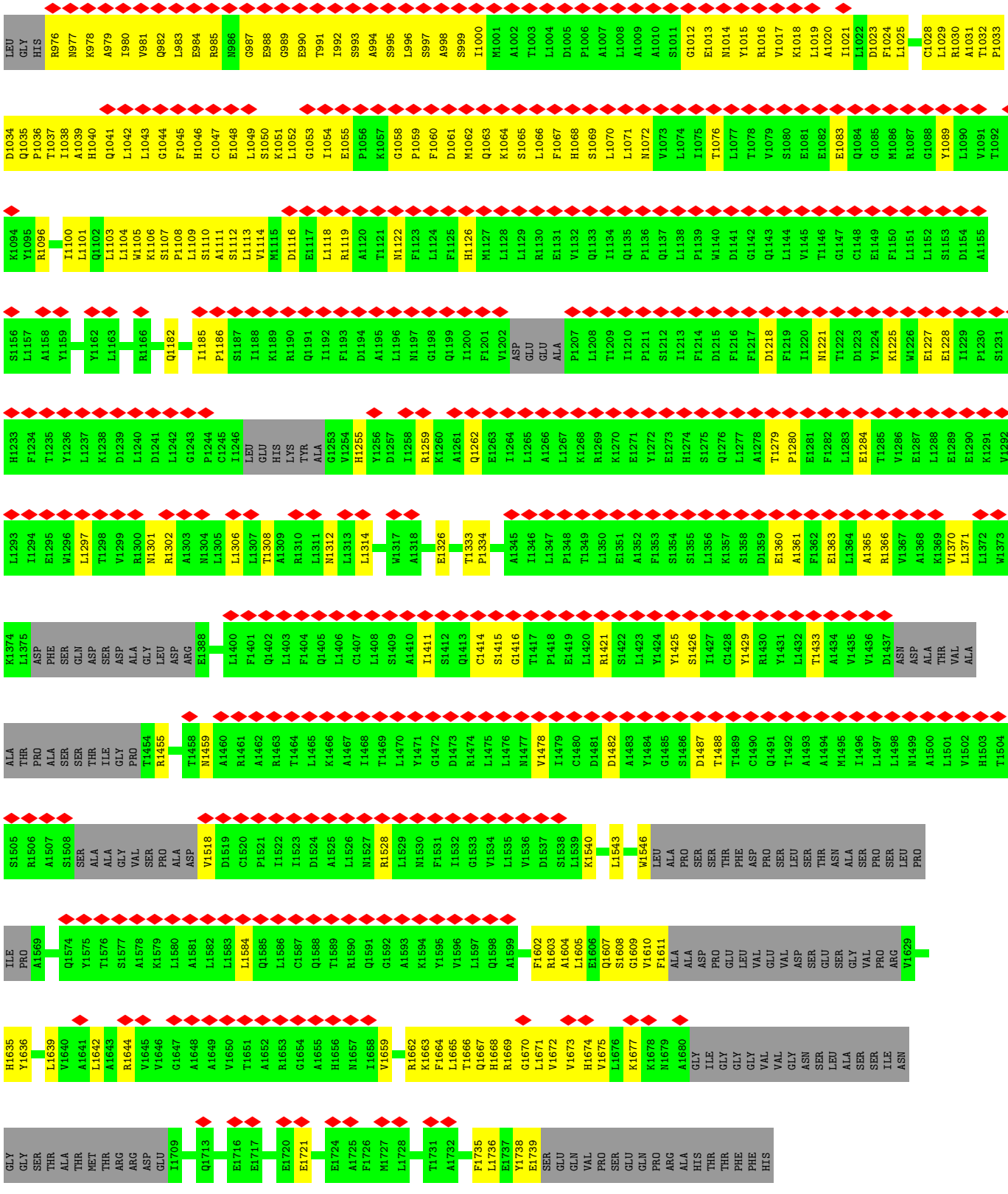

• Molecule 11: NUP205

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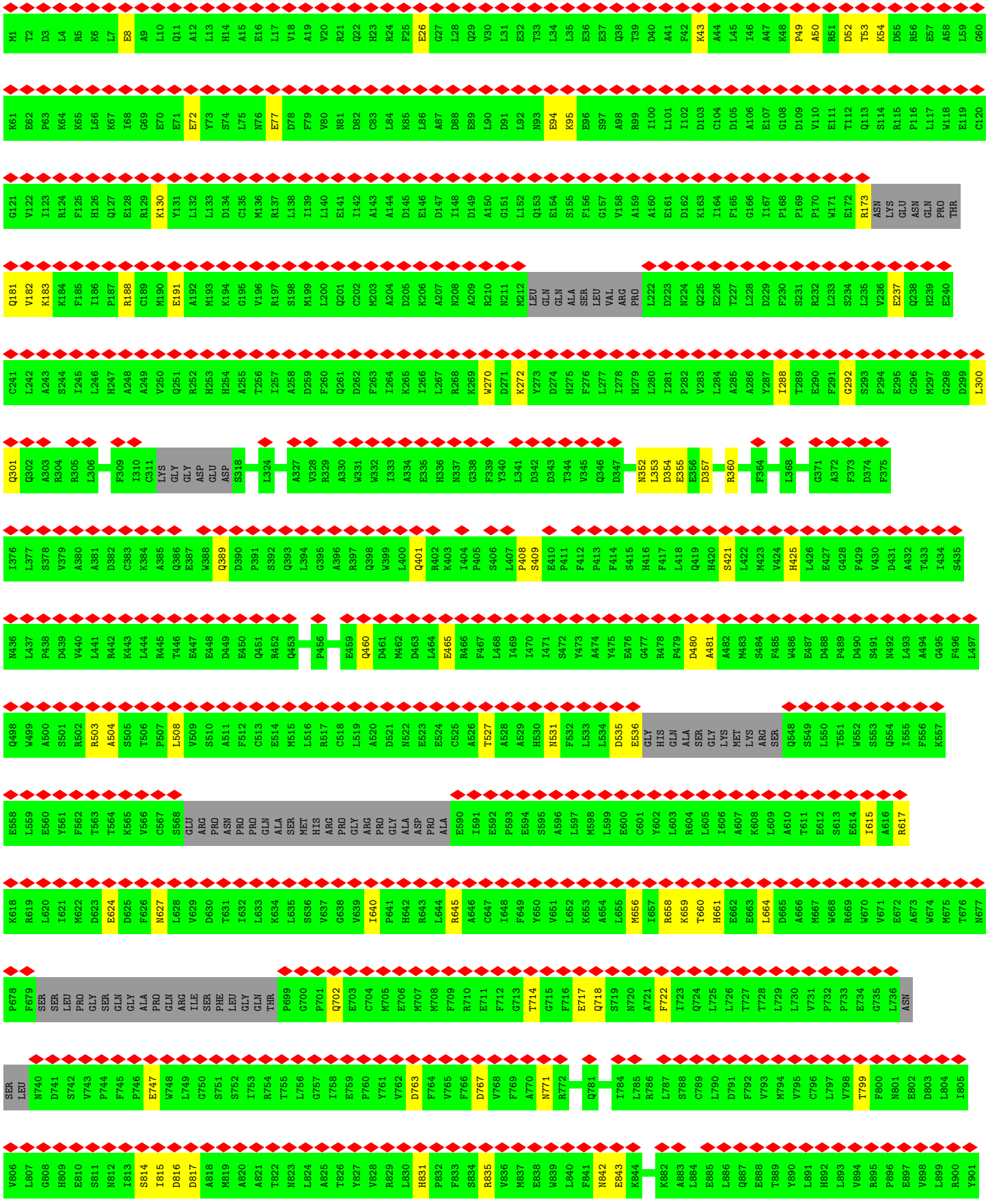
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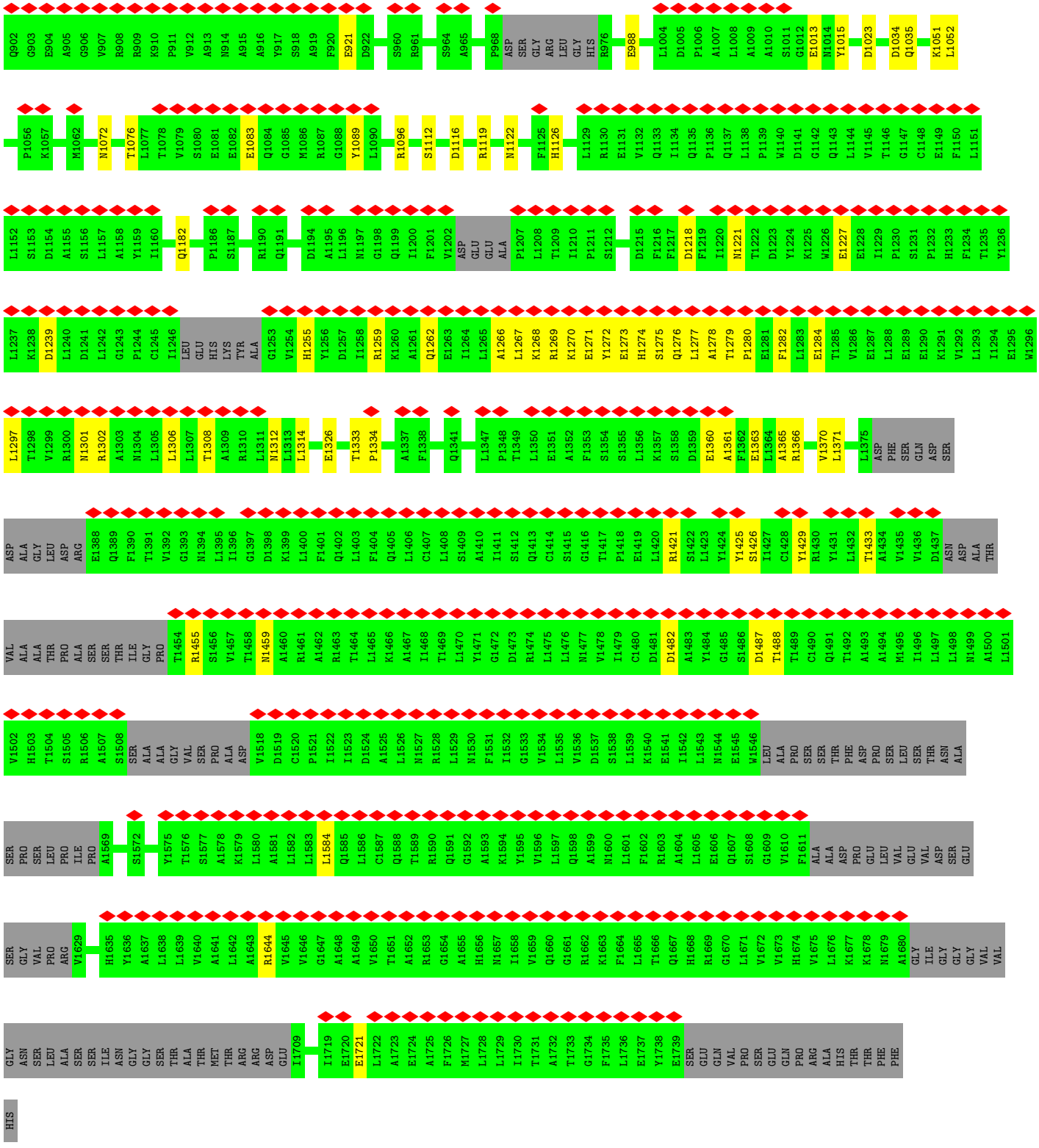

- Molecule 11: NUP205

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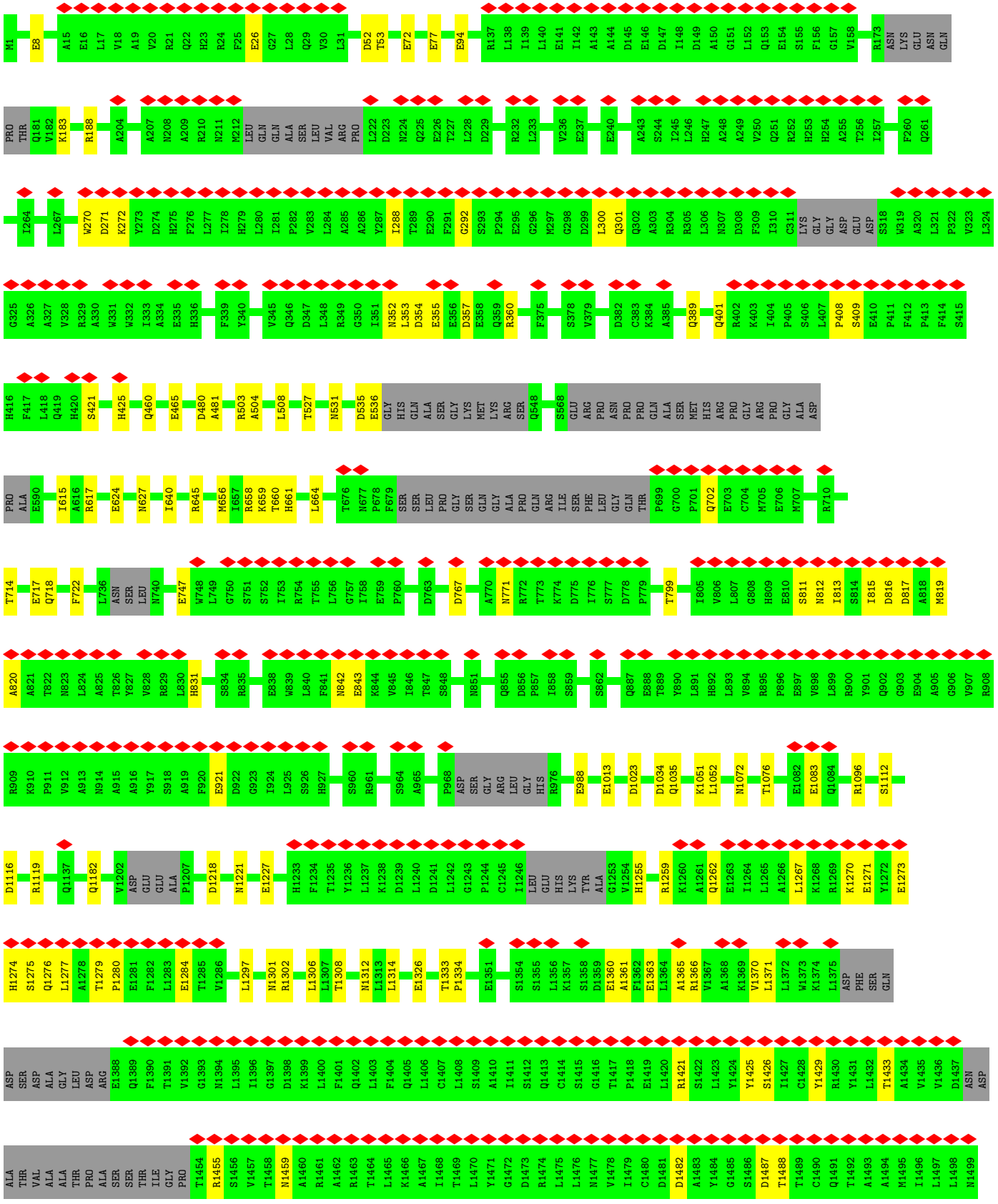
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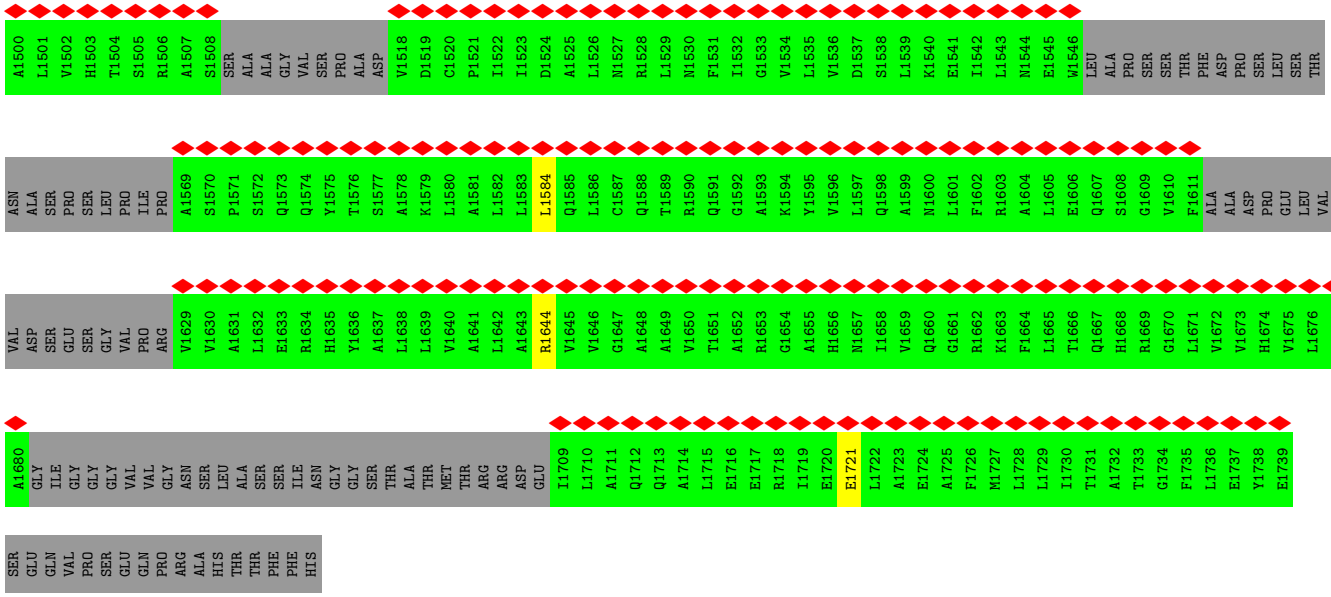

• Molecule 11: NUP205

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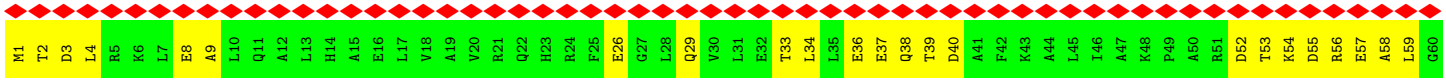

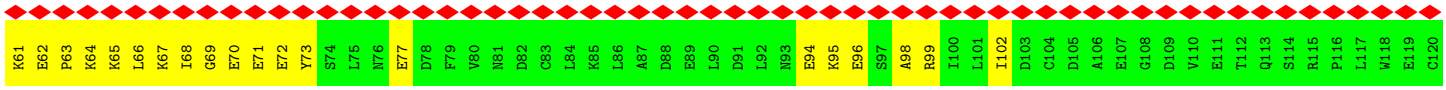

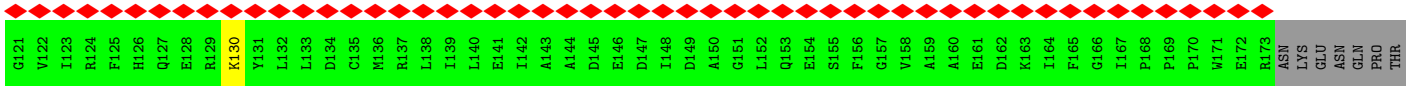

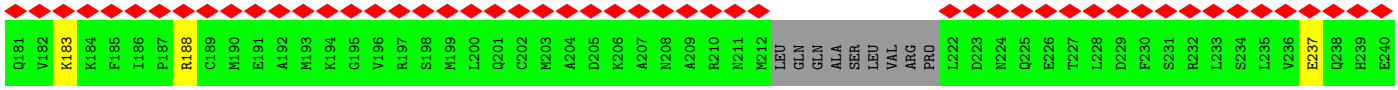

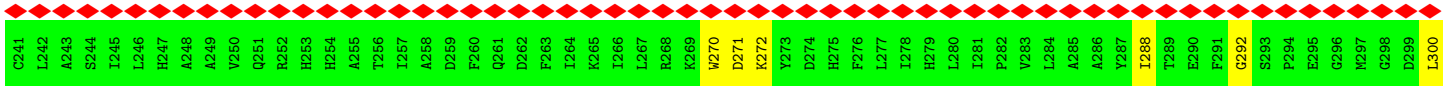

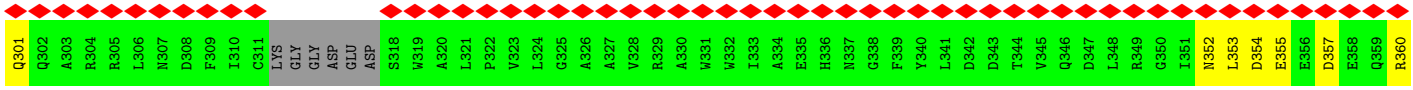

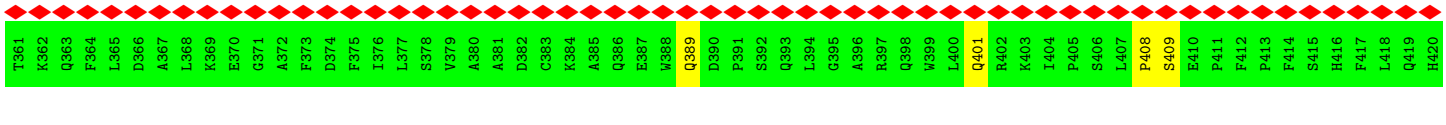

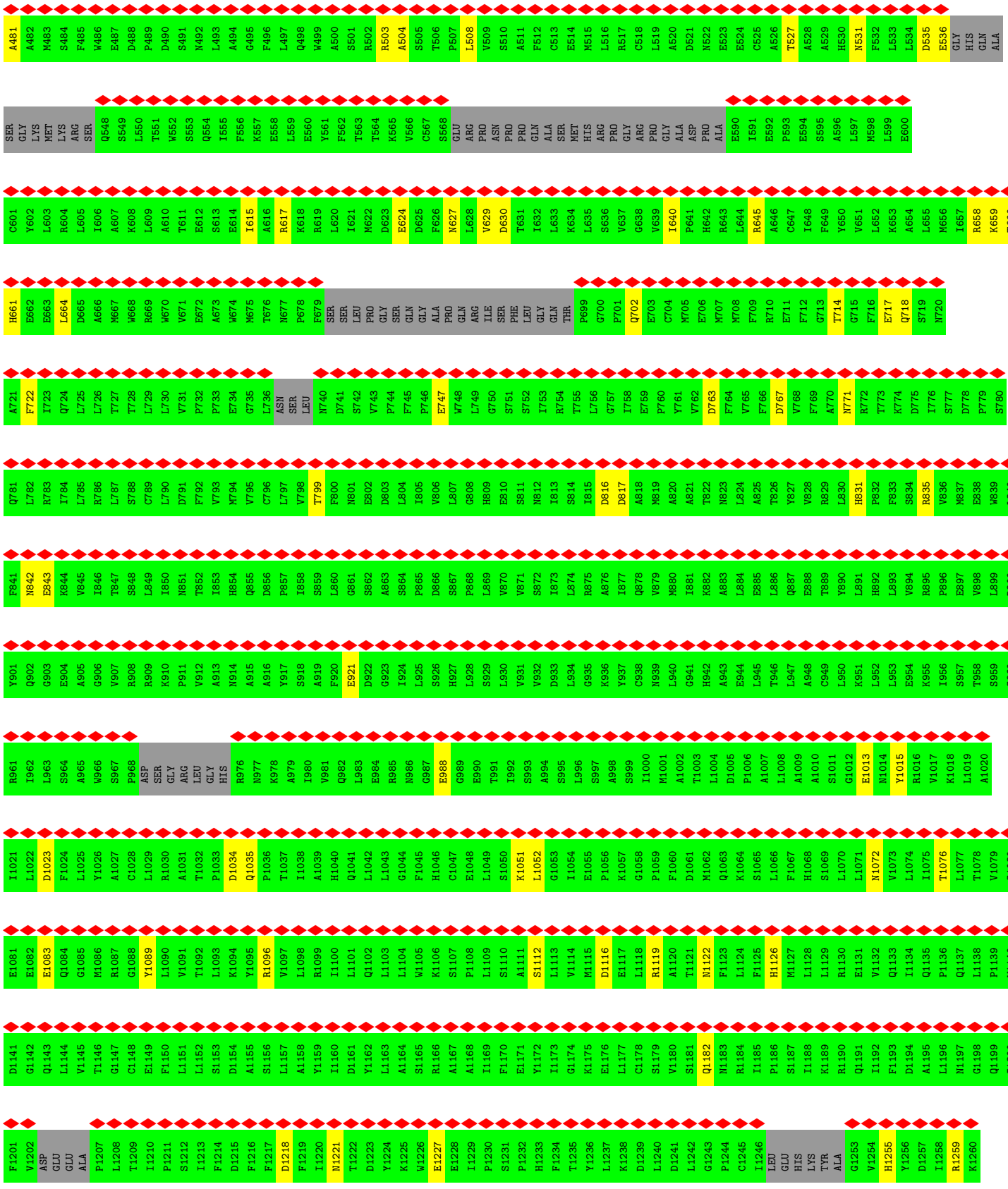
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SER GLY LYS MET LYS ARG SER Q548 S549 L550 T551 W552 S553 Q554 I555 F556 K557 E558 L559 E560 Y561 F562 T563 T564 K565 V566 C567 S568 GLU ARG PRO ASN PRO PRO GLN ALA SER MET HIS ARG PRO GLY ARG PRO GLY ALA ASP PRO ALA E590 I591 E592 P593 E594 S595 A596 L597 M598 L599 E600
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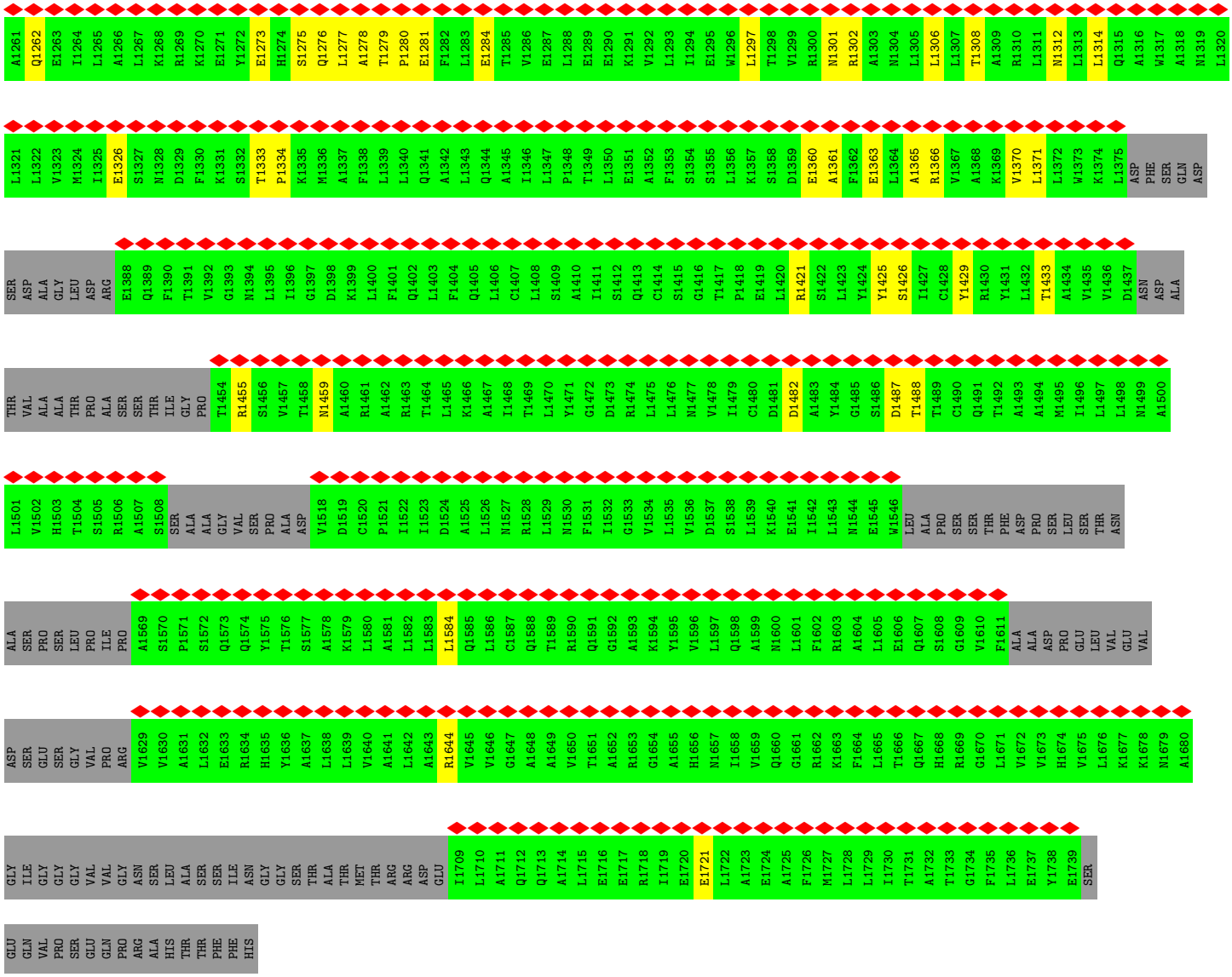
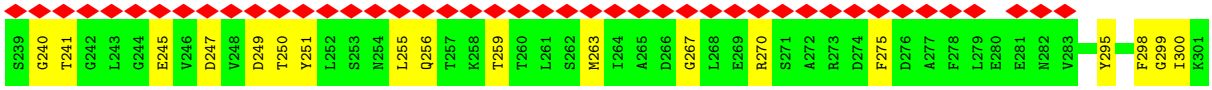


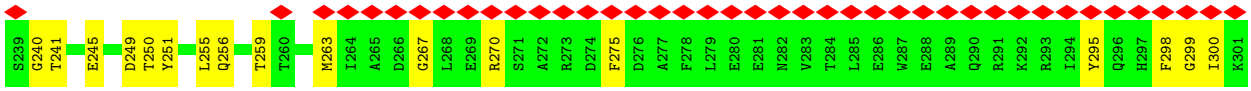
• Molecule 12: NUP93 R2

Chain J1:



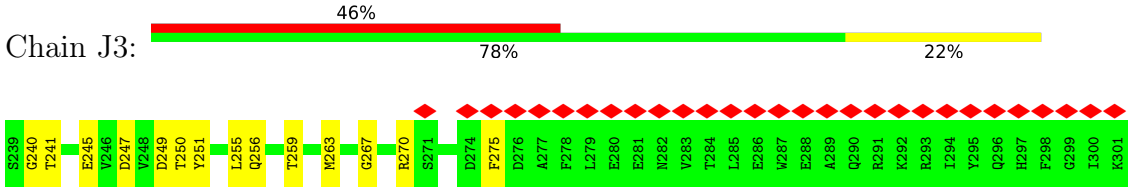
• Molecule 12: NUP93 R2

Chain J2:



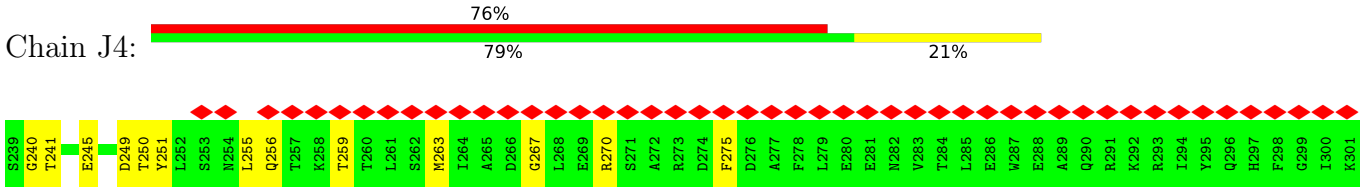
• Molecule 12: NUP93 R2

Chain J3:



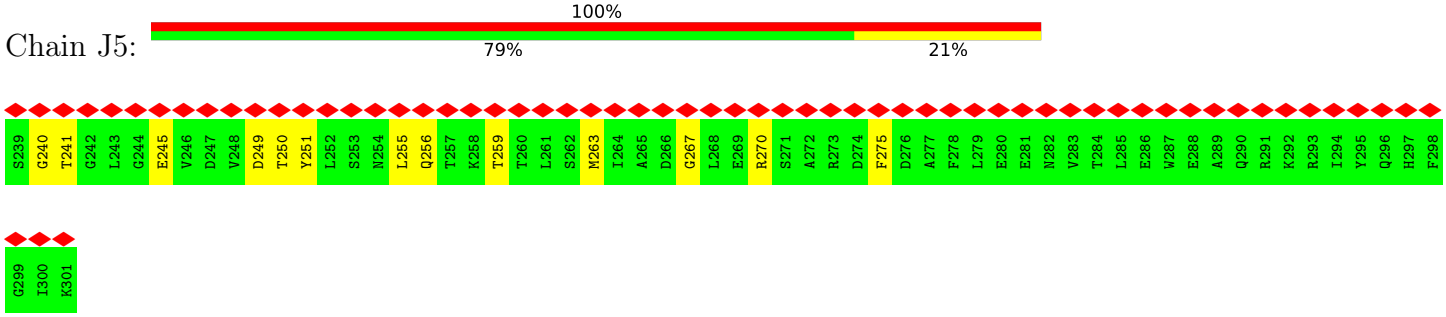
• Molecule 12: NUP93 R2

Chain J4:



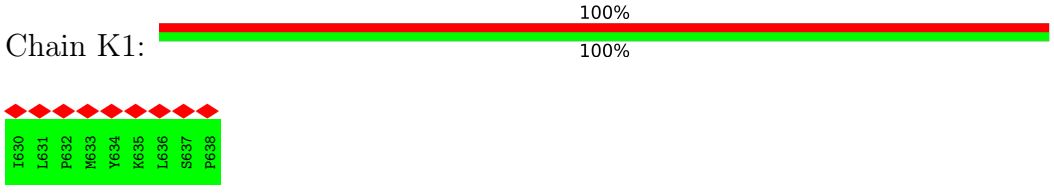
• Molecule 12: NUP93 R2

Chain J5:



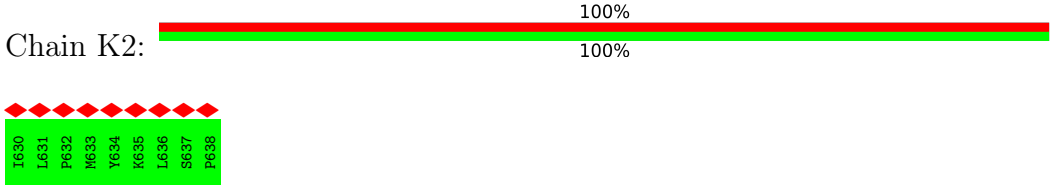
• Molecule 13: NUP98 R1

Chain K1:



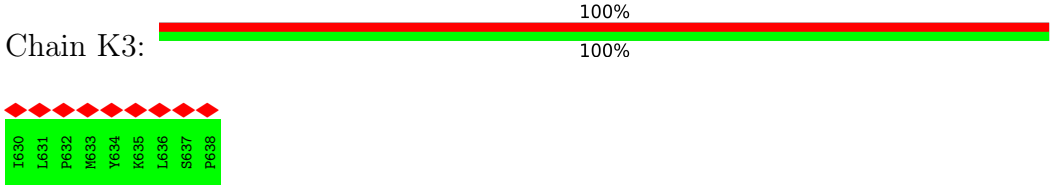
• Molecule 13: NUP98 R1

Chain K2:



• Molecule 13: NUP98 R1

Chain K3:



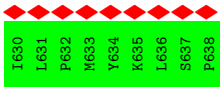
• Molecule 13: NUP98 R1

Chain K4:

There are no outlier residues recorded for this chain.

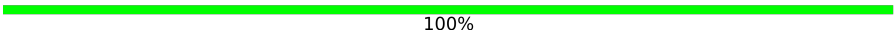
• Molecule 13: NUP98 R1

Chain K5:



• Molecule 14: NUP53 R1

Chain L1:



There are no outlier residues recorded for this chain.

• Molecule 14: NUP53 R1

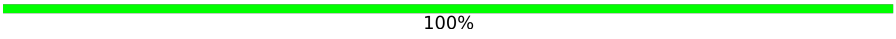
Chain L2:

• Molecule 14: NUP53 R1

Chain L3:

• Molecule 14: NUP53 R1

Chain L4:



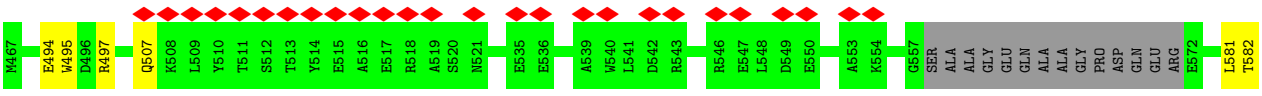
There are no outlier residues recorded for this chain.

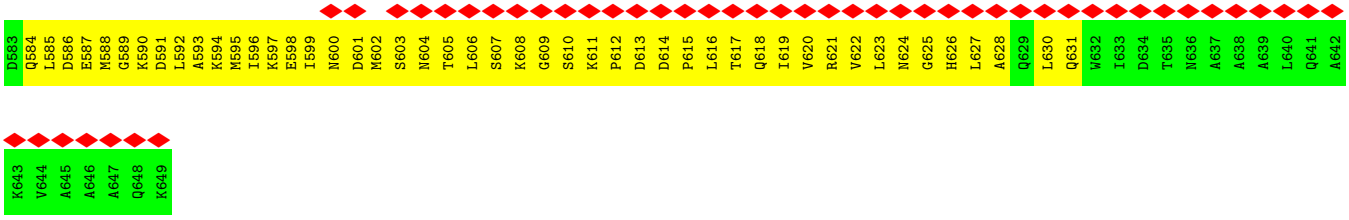
• Molecule 14: NUP53 R1

Chain L5:

• Molecule 15: NUP62

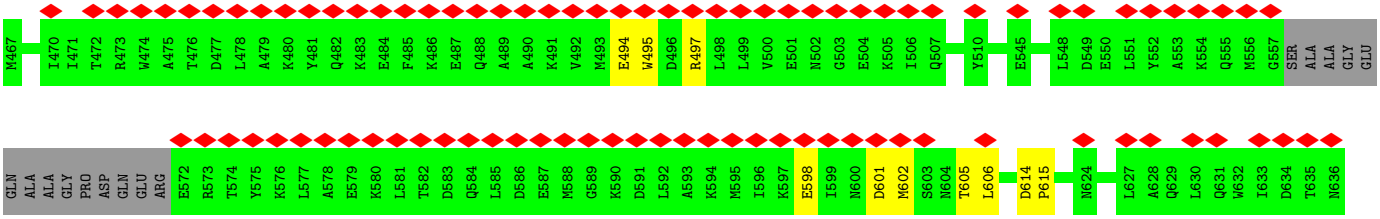
Chain M1:





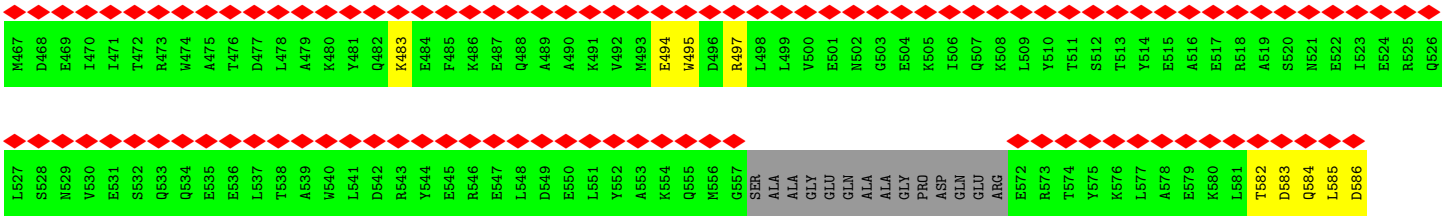
• Molecule 15: NUP62

Chain M2:



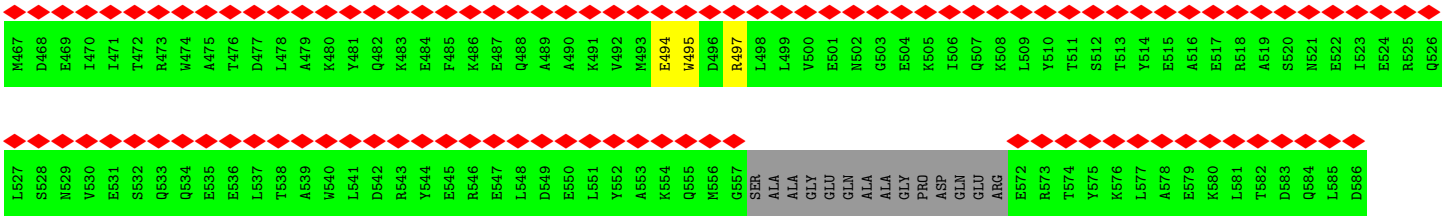
• Molecule 15: NUP62

Chain M3:



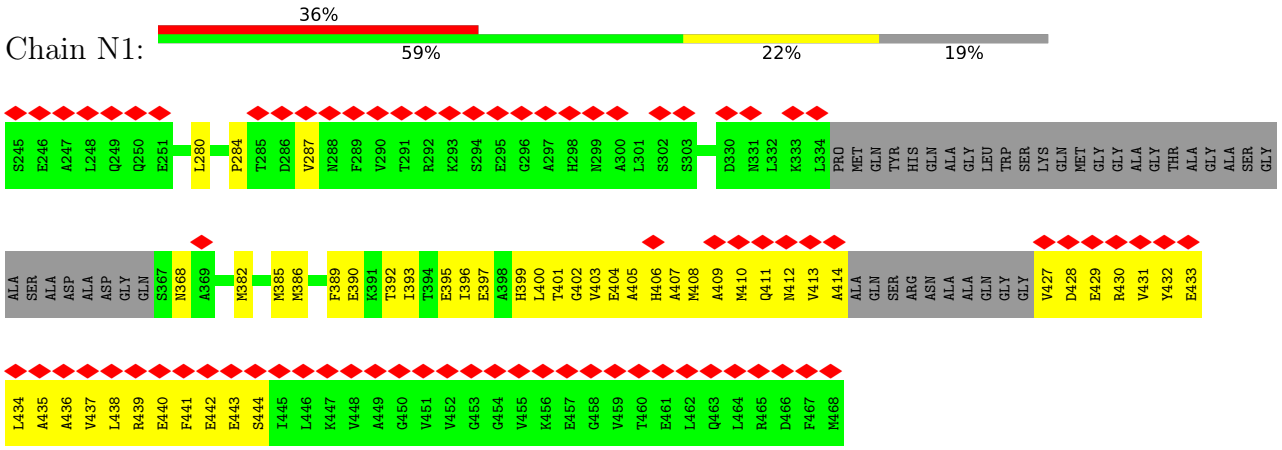
• Molecule 15: NUP62

Chain M4:



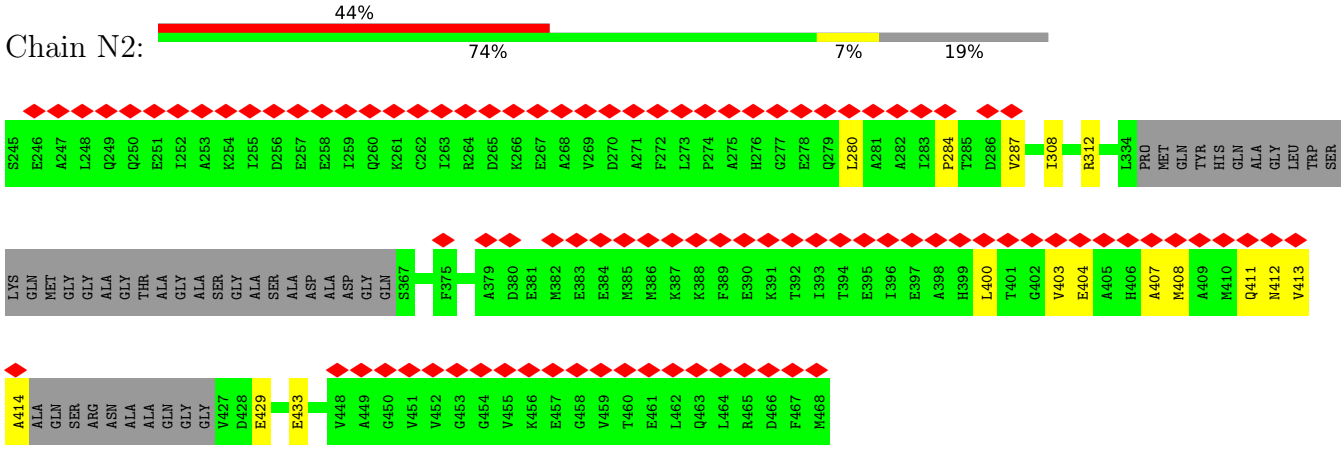
• Molecule 16: NUP58

Chain N1:



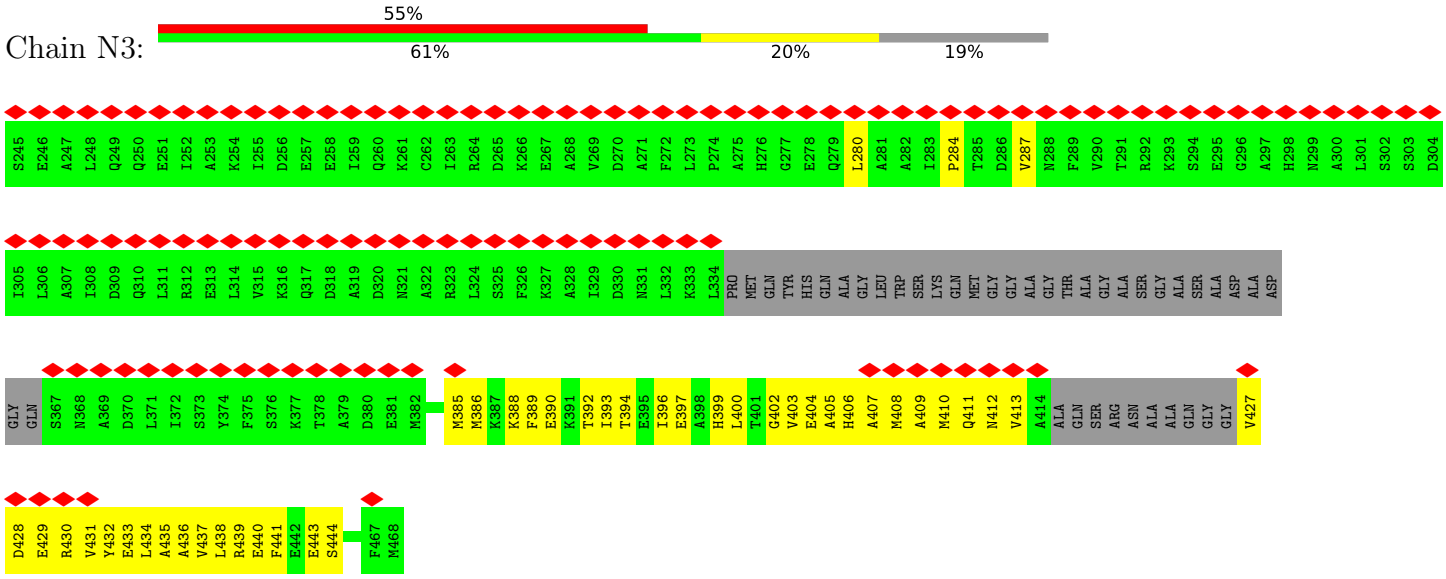
• Molecule 16: NUP58

Chain N2:



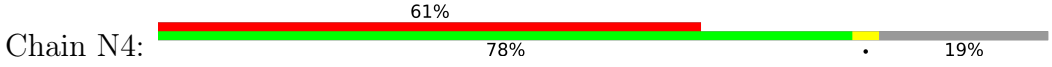
• Molecule 16: NUP58

Chain N3:



• Molecule 16: NUP58

Chain N4:

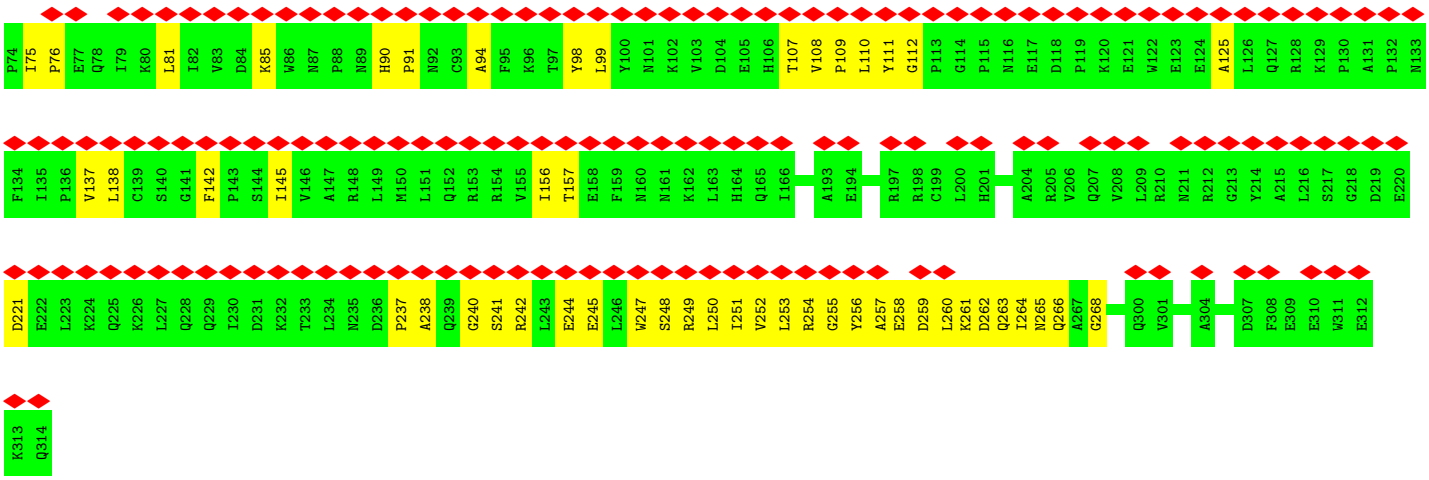


• Molecule 17: NUP54

Chain O1:

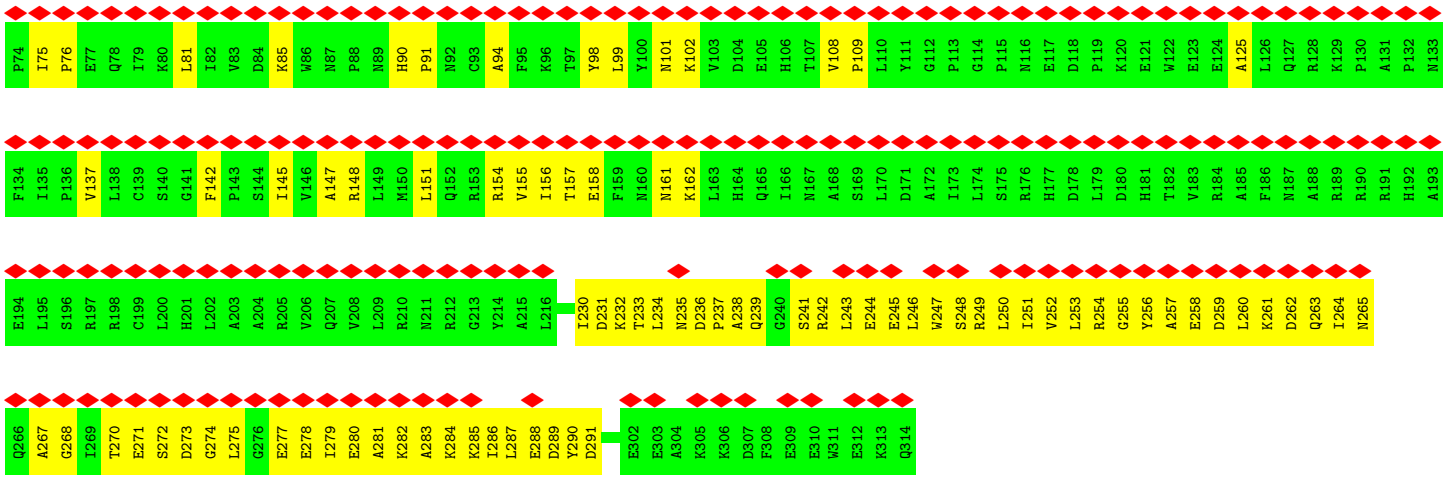
• Molecule 17: NUP54

Chain O2:



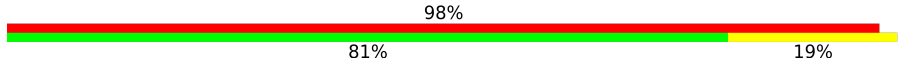
• Molecule 17: NUP54

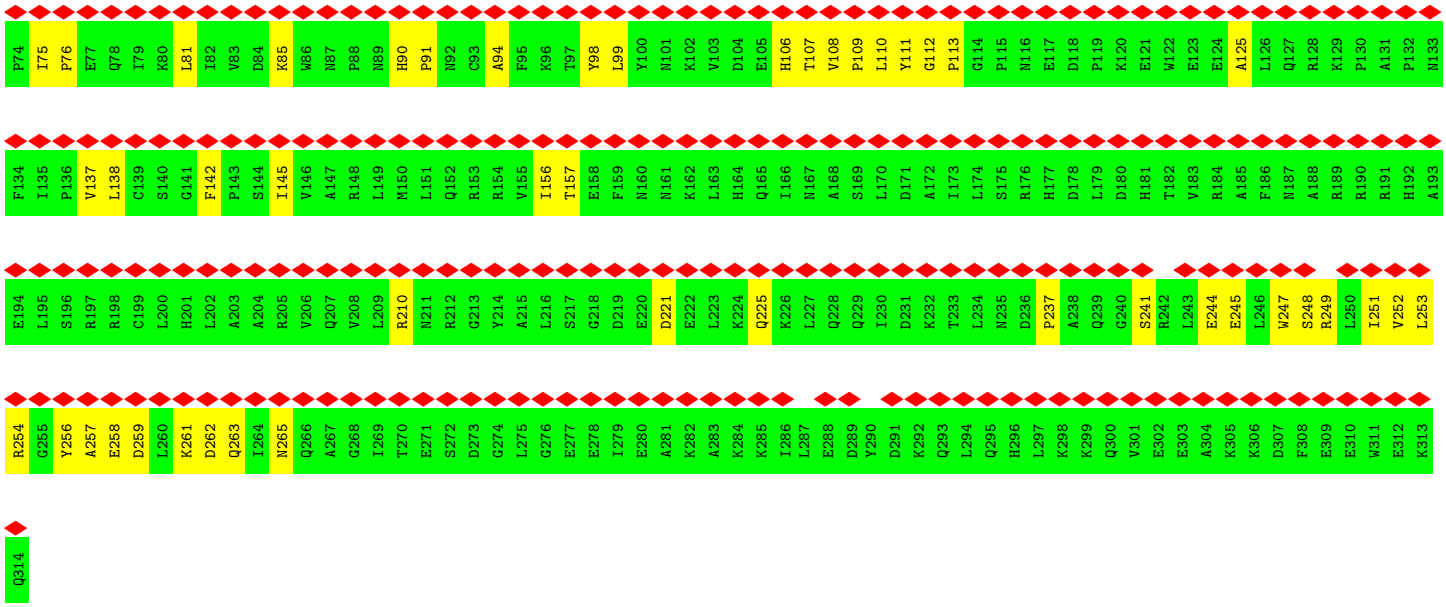
Chain O3:



• Molecule 17: NUP54

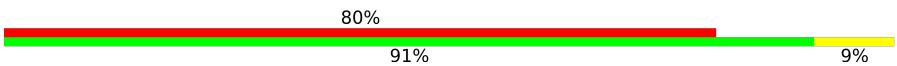
Chain O4:

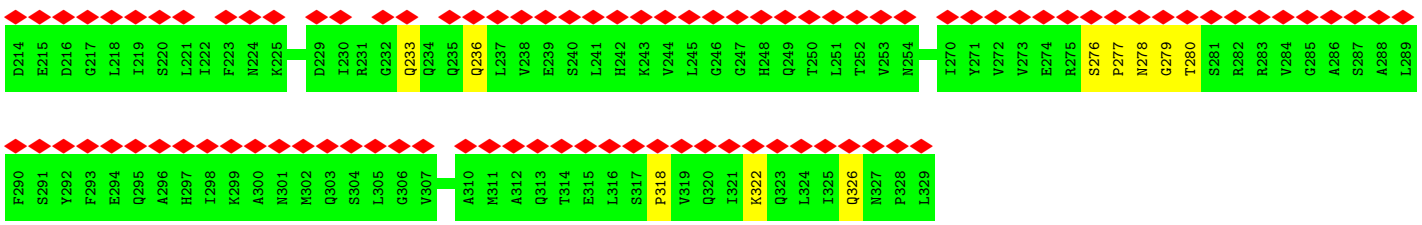




• Molecule 18: NUP54 Ferrodoxin-like domain

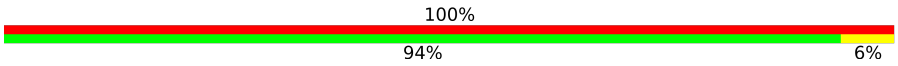
Chain P1:

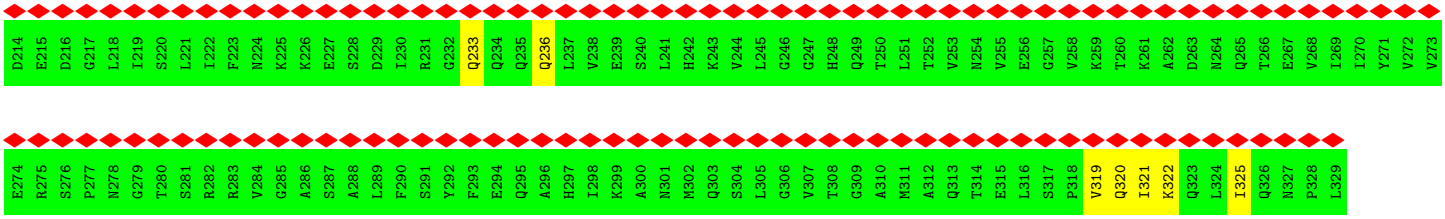




• Molecule 18: NUP54 Ferrodoxin-like domain

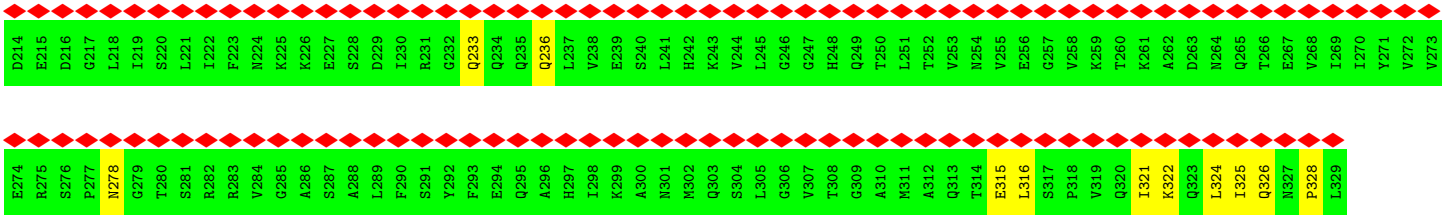
Chain P2:





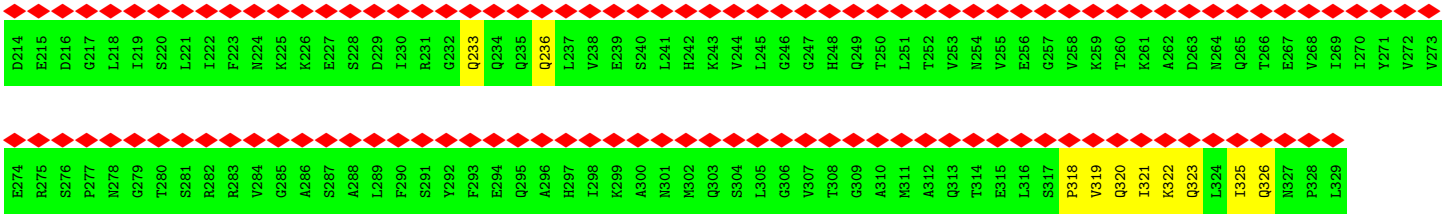
• Molecule 18: NUP54 Ferrodoxin-like domain

Chain P3:



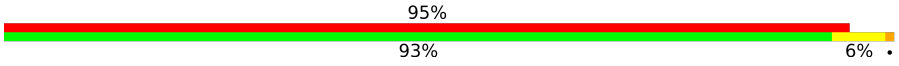
• Molecule 18: NUP54 Ferrodoxin-like domain

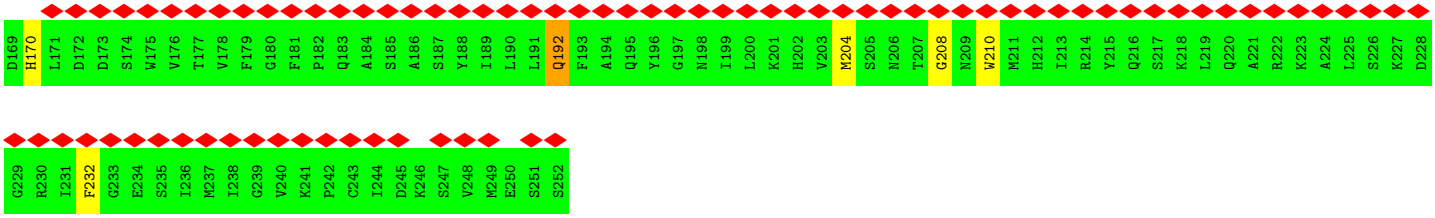
Chain P4:



• Molecule 19: NUP54 Ferrodoxin-like domain

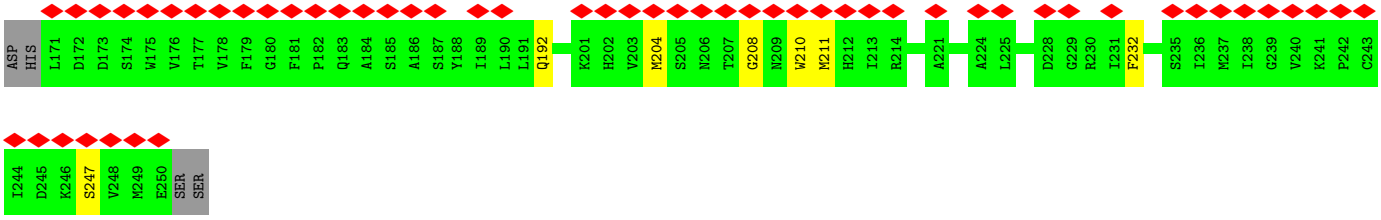
Chain Q1:



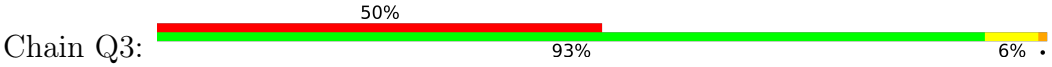


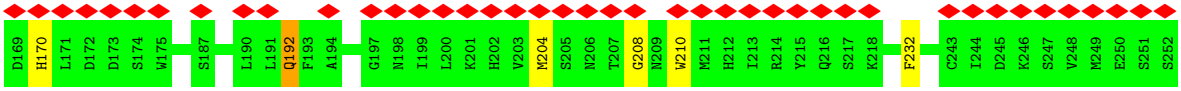
• Molecule 19: NUP54 Ferrodoxin-like domain

Chain Q2:

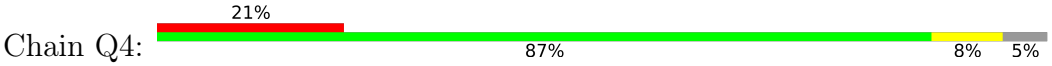


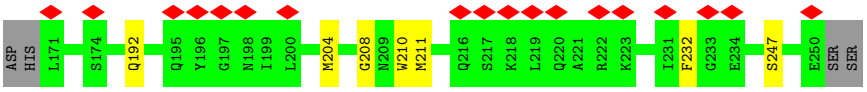
• Molecule 19: NUP54 Ferrodoxin-like domain



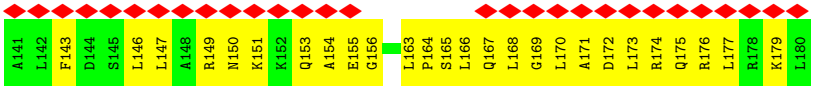


• Molecule 19: NUP54 Ferrodoxin-like domain

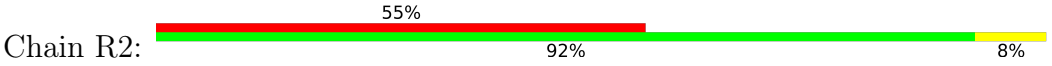


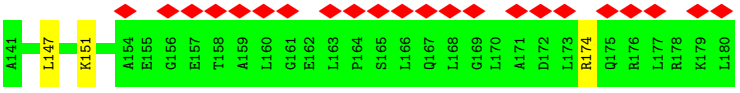


• Molecule 20: NUP93 R1

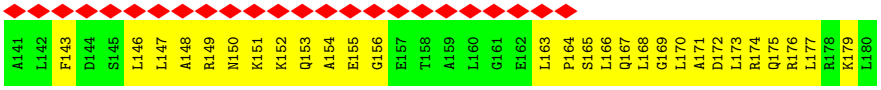


• Molecule 20: NUP93 R1

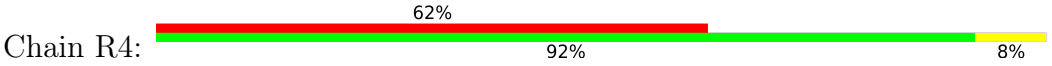


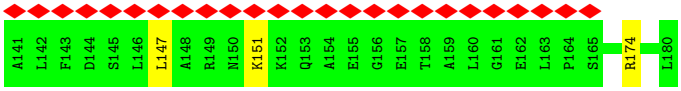


• Molecule 20: NUP93 R1



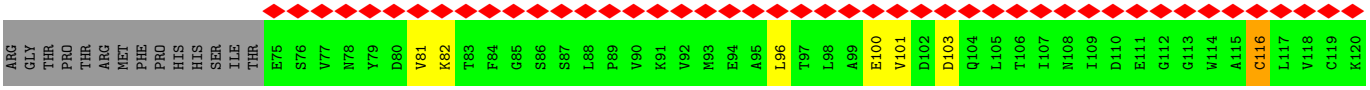
• Molecule 20: NUP93 R1

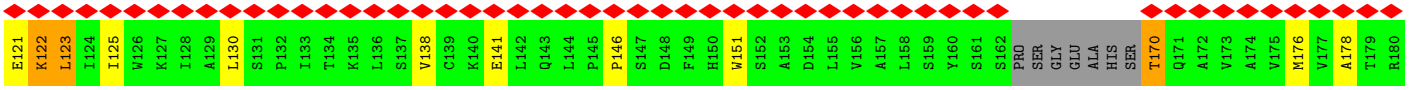


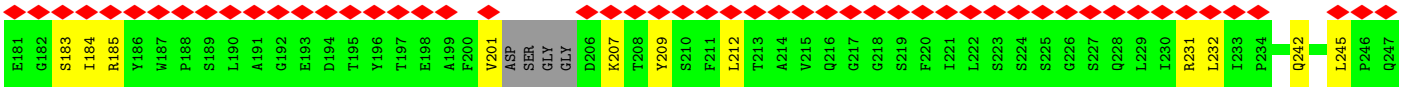


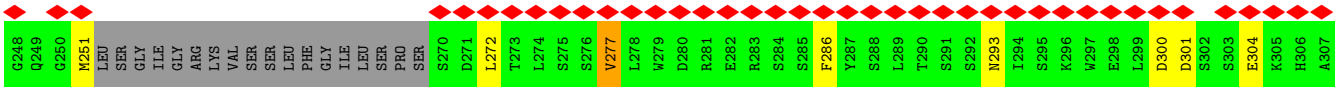
• Molecule 21: NUP133

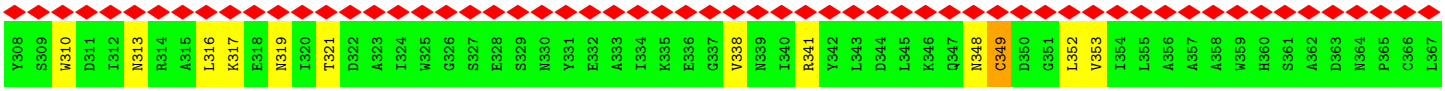
Chain S1:

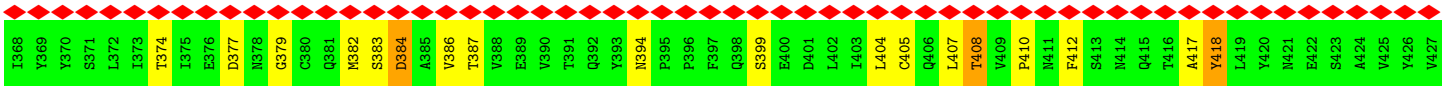


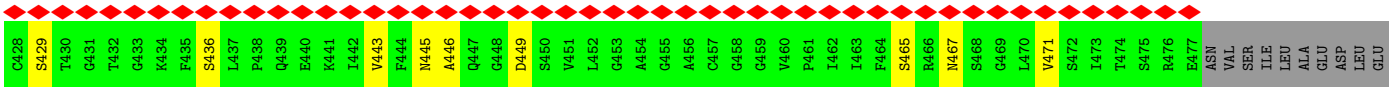


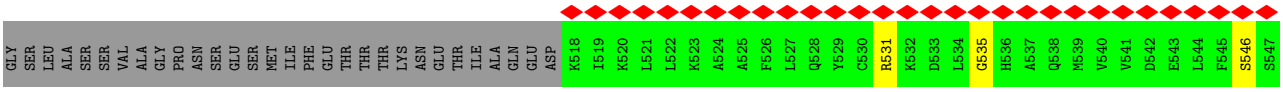


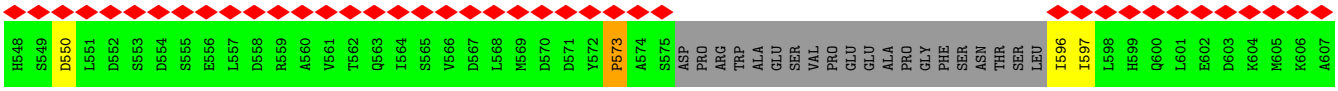


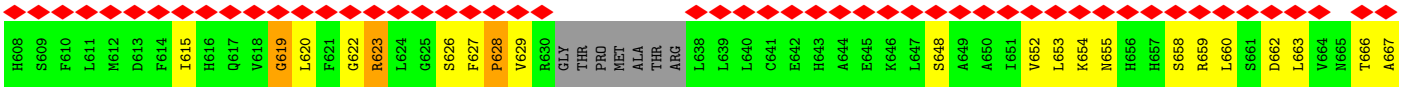


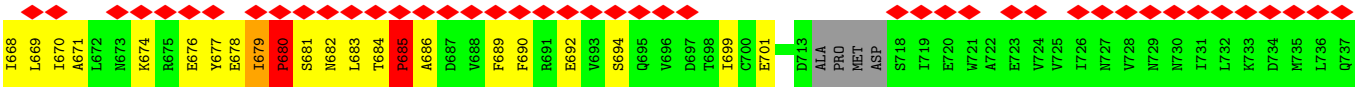


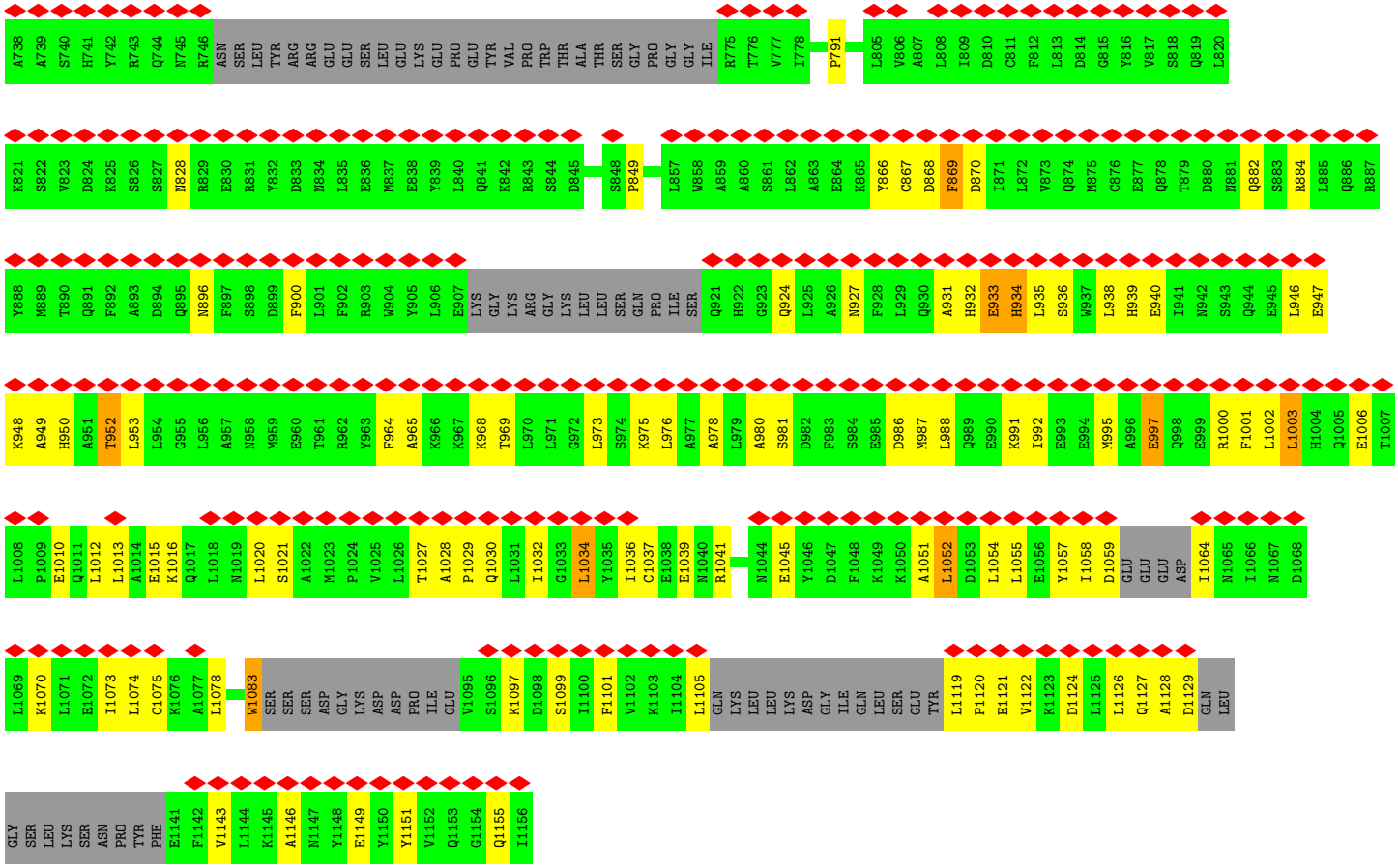






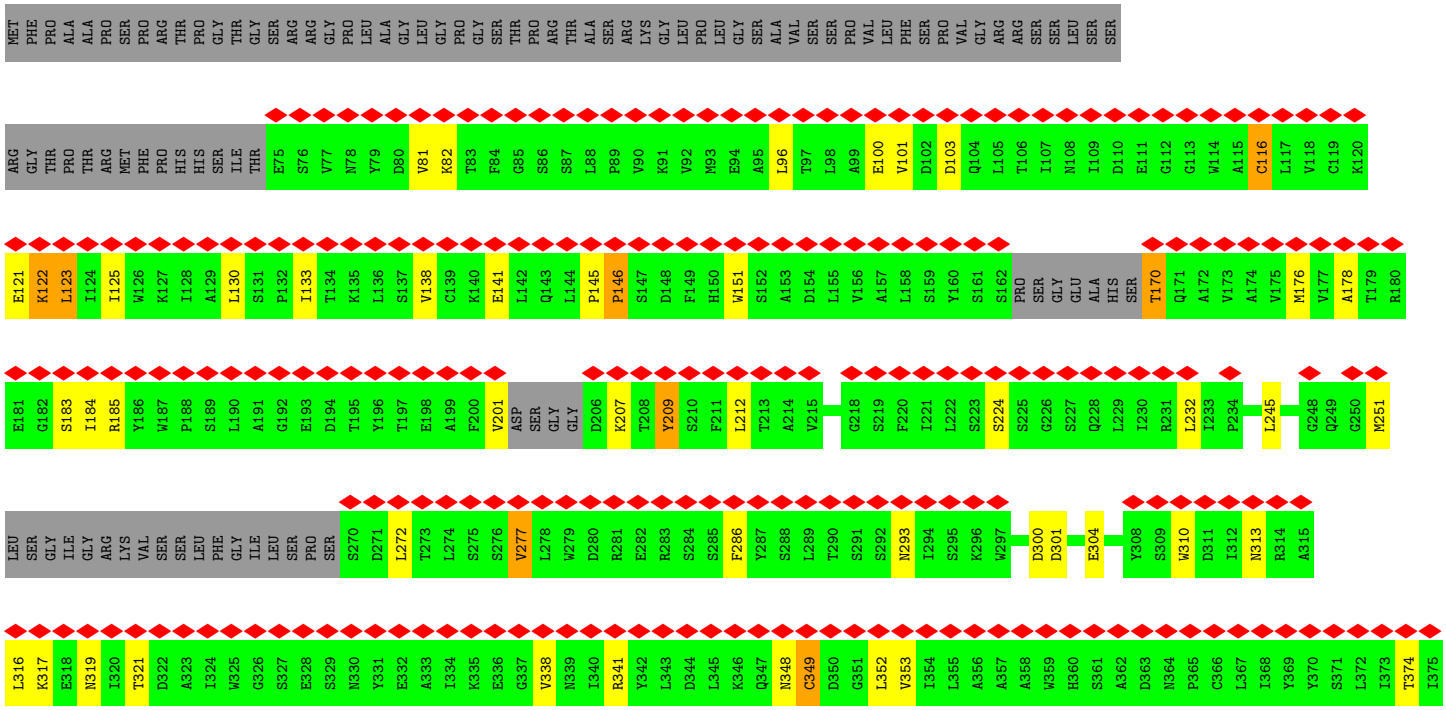


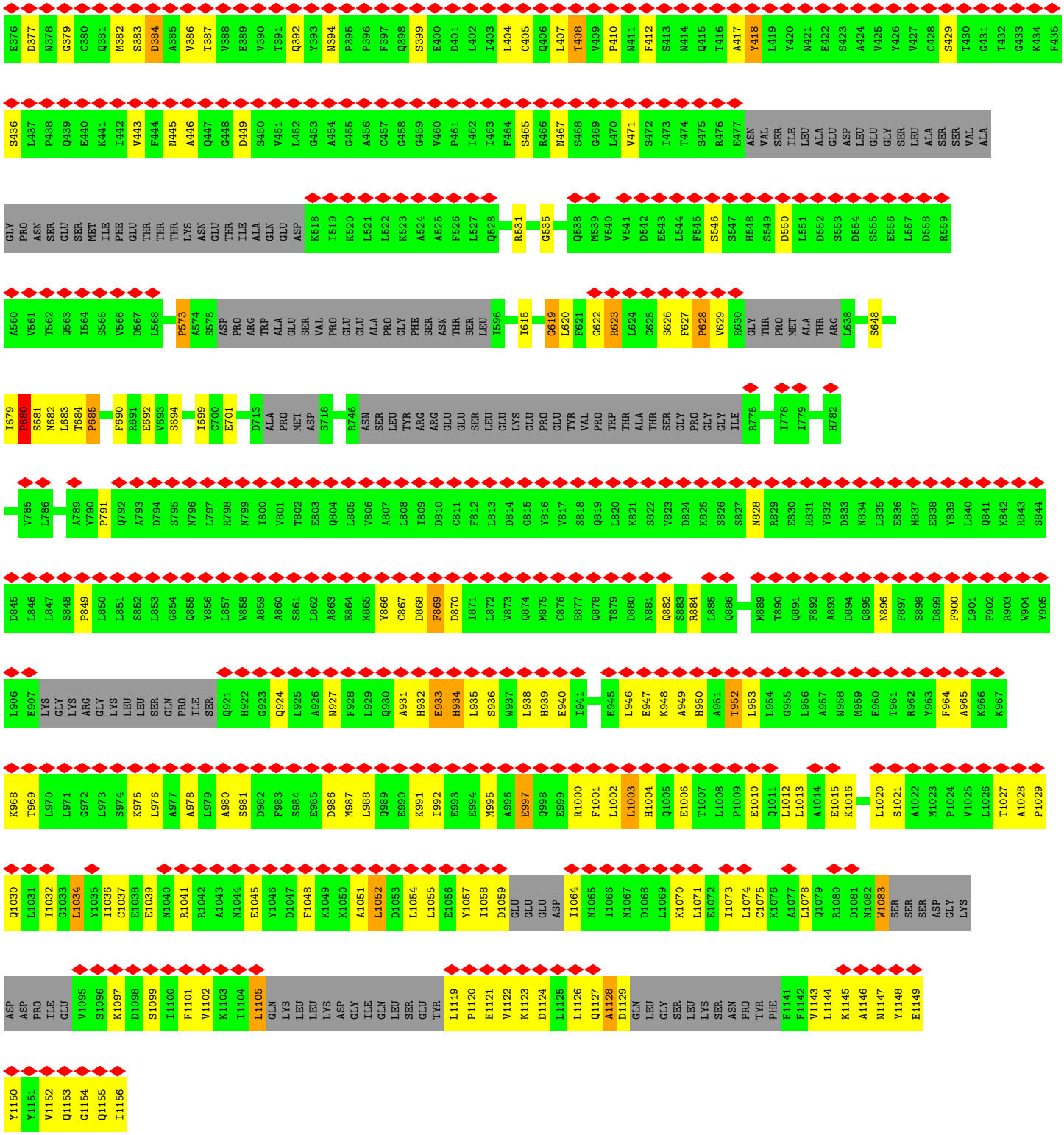




• Molecule 21: NUP133

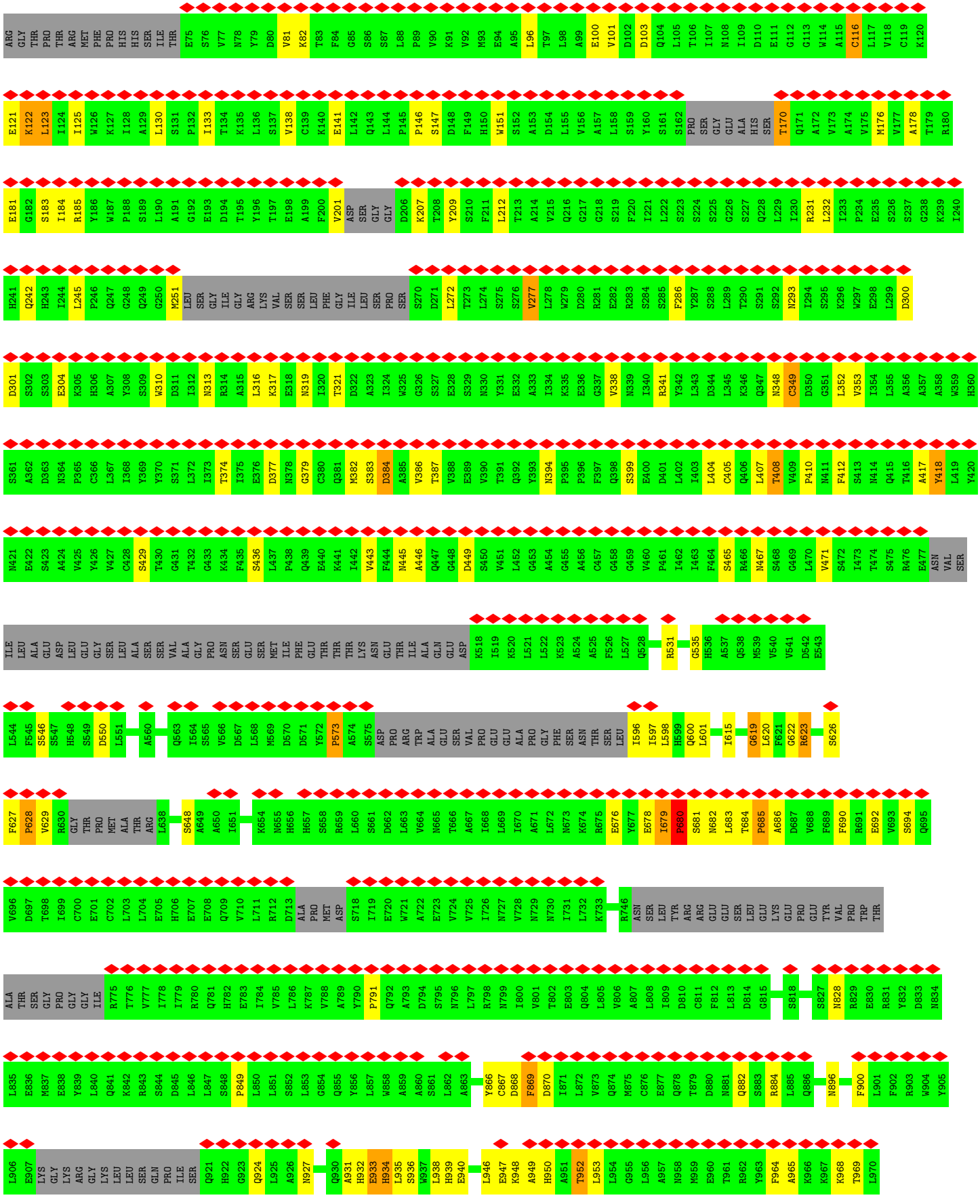
Chain S2:





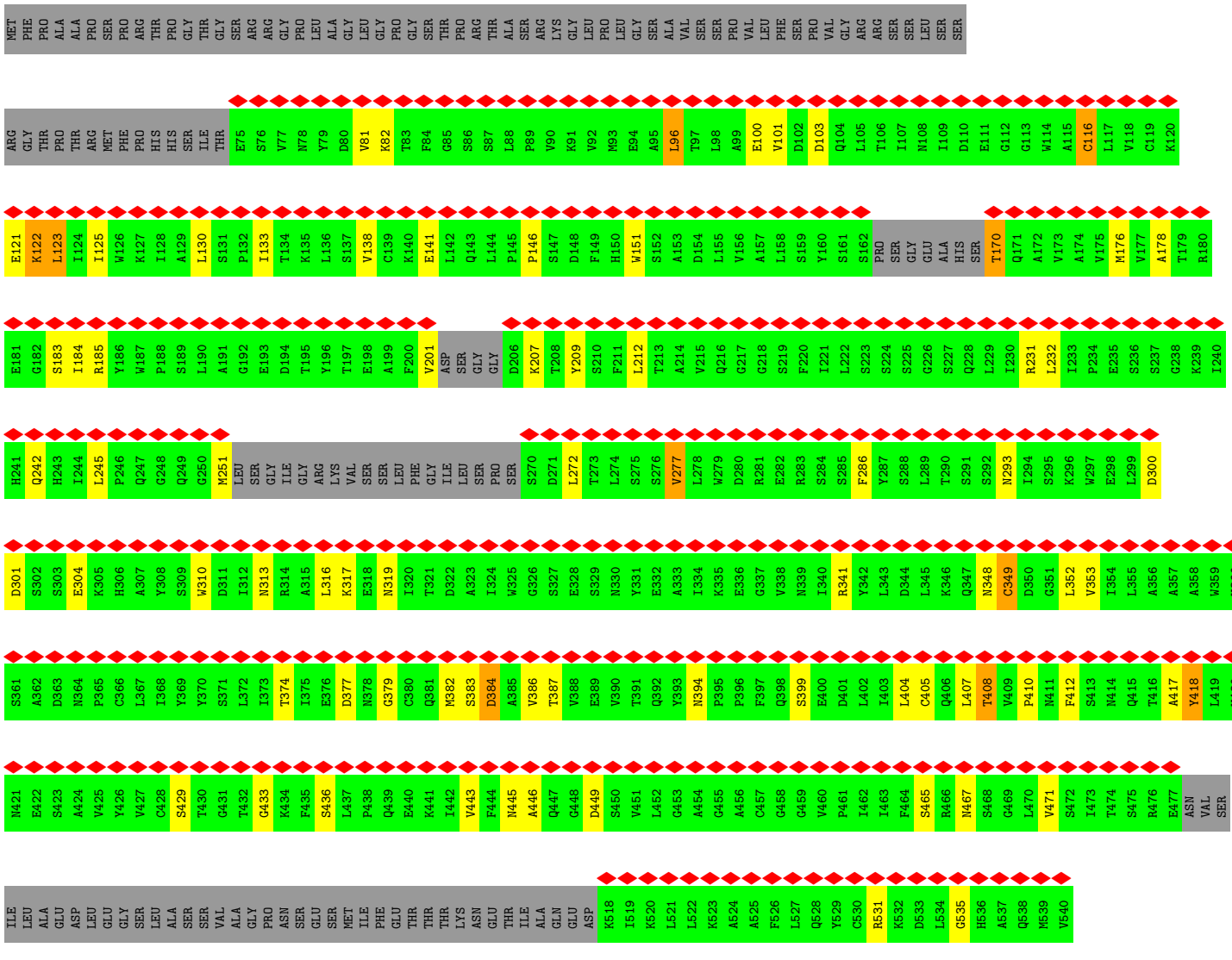
• Molecule 21: NUP133

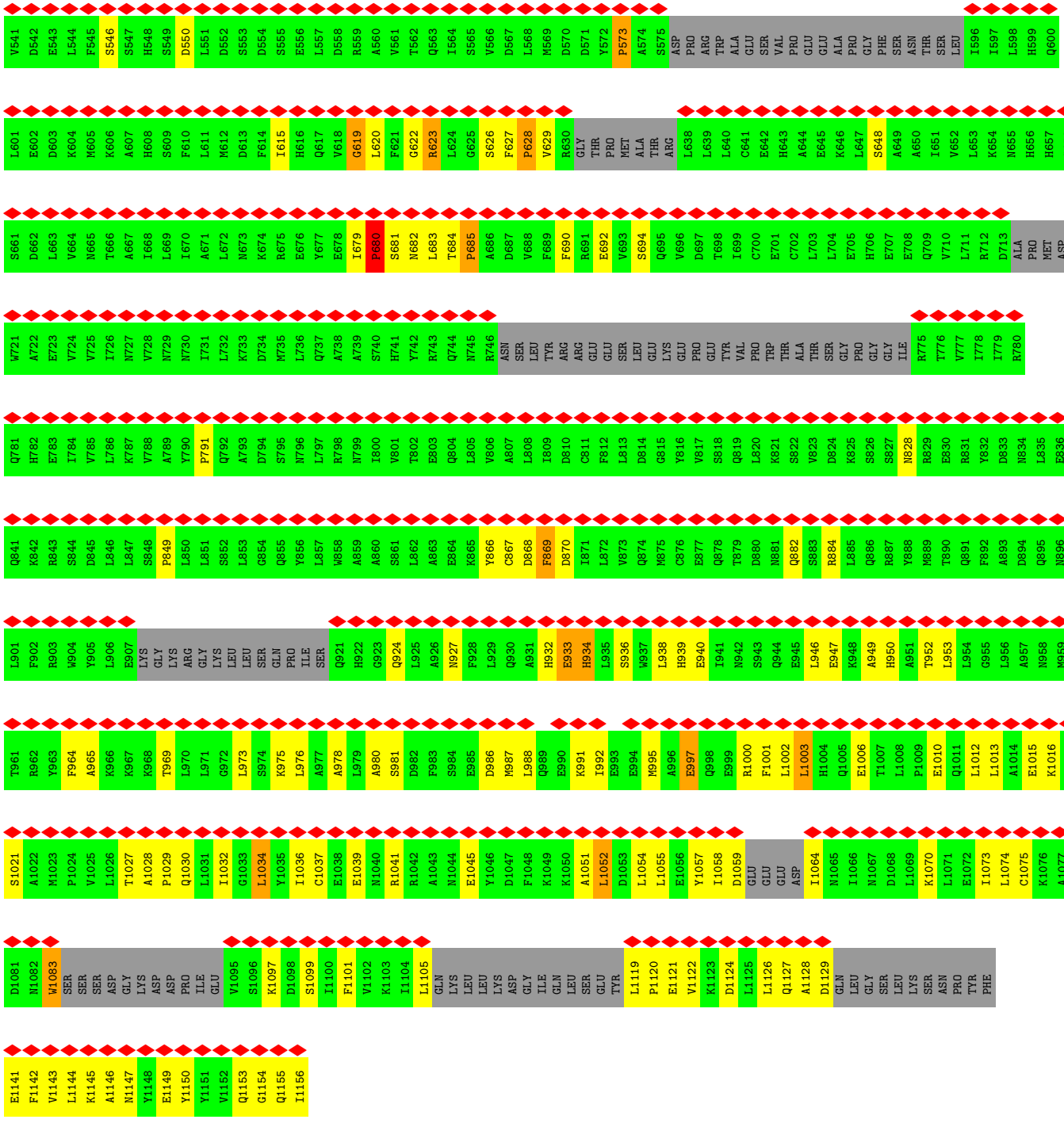
Chain S3:


ARG GLY THR PRO 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 V92 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 I125 W126 K127 I128 A129 L130 S131 P132 I133 T134 K135 L136 S137 V138 C139 K140 E141 L142 Q143 L144 P145 P146 S147 D148 F149 H150 W151 S152 A153 D154 L155 V156 A157 L158 S159 Y160 S161 S162 PRO SER GLY GLU ALA HIS SER T170 Q171 A172 V173 A174 V175 M176 V177 A178 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 S227 Q228 L229 I230 R231 L232 I233 P234 E235 S236 S237 G238 K239 I240
H241 Q242 H243 I244 L245 P246 Q247 G248 Q249 G250 M251 LEU SER GLY ILE GLY ARG LYS VAL SER SER LEU PHE GLY ILE LEU SER PRO SER S270 D271 L272 T273 L274 S275 S276 V277 L278 W279 D280 R281 E282 R283 S284 S285 F286 Y287 S288 L289 T290 S291 S292 N293 I294 S295 K296 W297 E298 L299 D300
D301 S302 S303 E304 K305 H306 A307 Y308 S309 W310 D311 I312 N313 R314 A315 L316 K317 E318 N319 I320 T321 D322 A323 I324 W325 G326 S327 E328 S329 N330 Y331 E332 A333 I334 K335 E336 G337 V338 N339 I340 R341 Y342 L343 D344 L345 K346 Q347 N348 C349 D350 G351 L352 V353 I354 L355 A356 A357 A358 W359 H360
S361 A362 D363 N364 P365 C366 L367 I368 Y369 Y370 S371 L372 I373 T374 I375 E376 D377 N378 G379 C380 Q381 M382 S383 D384 A385 V386 T387 V388 E389 V390 T391 Q392 Y393 N394 P395 P396 F397 Q398 S399 E400 D401 L402 I403 L404 C405 Q406 L407 T408 V409 P410 N411 F412 S413 N414 Q415 T416 A417 Y418 L419 Y420
N421 E422 S423 A424 V425 Y426 V427 C428 S429 T430 G431 T432 G433 K434 F435 S436 L437 P438 Q439 E440 K441 I442 V443 F444 N445 A446 Q447 G448 D449 S450 V451 L452 G453 A454 G455 A456 C457 G458 G459 V460 P461 I462 I463 F464 S465 R466 N467 S468 G469 L470 V471 S472 I473 T474 S475 R476 E477 ASN VAL SER
ILE LEU ALA GLU ASP LEU GLU GLY SER LEU ALA SER SER VAL ALA GLY PRO ASN SER GLU SER MET ILE PHE GLU THR THR THR LYS ASN GLU THR ILE ALA GLN GLU ASP K518 I519 K520 L521 L522 K523 A524 A525 F526 L527 Q528 R531 G535 H536 A537 Q538 M539 V540 V541 D542 E543
L544 F545 S546 S547 H548 S549 D550 L551 A560 Q563 I564 S565 V566 D567 L568 M569 D570 D571 Y572 P573 A574 S575 ASP PRO ARG TRP ALA GLU SER VAL PRO GLU GLU ALA PRO GLY PHE SER ASN THR SER LEU I596 I597 L598 H599 Q600 L601 I615 G619 L620 F621 G622 R623 S626
F627 P628 V629 R630 GLY THR PRO MET ALA THR ARG L638 S648 A649 A650 I651 K654 N655 H656 H657 S658 R659 L660 S661 D662 L663 V664 N665 T666 A667 I668 L669 I670 A671 L672 N673 K674 R675 E676 Y677 E678 I679 P680 S681 N682 L683 T684 P685 A686 D687 V688 F689 F690 R691 E692 V693 S694 Q695
V696 D697 T698 I699 C700 E701 C702 L703 L704 E705 H706 E707 E708 Q709 V710 L711 R712 D713 ALA PRO MET ASP S718 I719 E720 W721 A722 E723 V724 V725 I726 N727 V728 N729 N730 I731 L732 K733 R746 ASN SER LEU TYR ARG ARG GLU GLU SER LEU GLU LYS GLU PRO GLU TYR VAL PRO TRP THR
ALA THR SER GLY PRO GLY GLY ILE R775 T776 V777 I778 I779 R780 Q781 H782 E783 I784 V785 L786 K787 V788 A789 Y790 P791 Q792 A793 D794 S795 N796 L797 R798 N799 I800 V801 T802 E803 Q804 L805 V806 A807 L808 I809 D810 C811 F812 L813 D814 G815 S818 S827 N828 R829 E830 R831 Y832 D833 N834
L835 E836 M837 E838 Y839 L840 Q841 K842 R843 S844 D845 L846 L847 S848 P849 L850 L851 S852 L853 G854 Q855 Y856 L857 W858 A859 A860 S861 L862 A863 Y866 C867 D868 F869 D870 I871 L872 V873 Q874 M875 C876 E877 Q878 T879 D880 N881 Q882 S883 R884 L885 Q886 N896 F900 L901 F902 R903 W904 Y905
L906 E907 LYS GLY LYS ARG GLY LYS LEU LEU SER GLN PRO ILE SER Q921 H922 G923 Q924 L925 A926 N927 Q930 A931 H932 E933 H934 L935 S936 W937 L938 H939 E940 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

• Molecule 21: NUP133

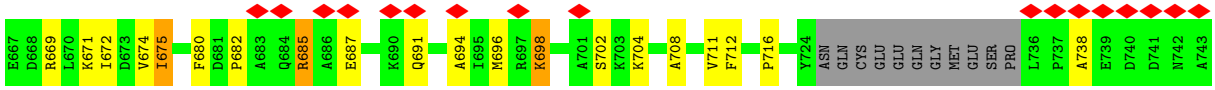
Chain S4:





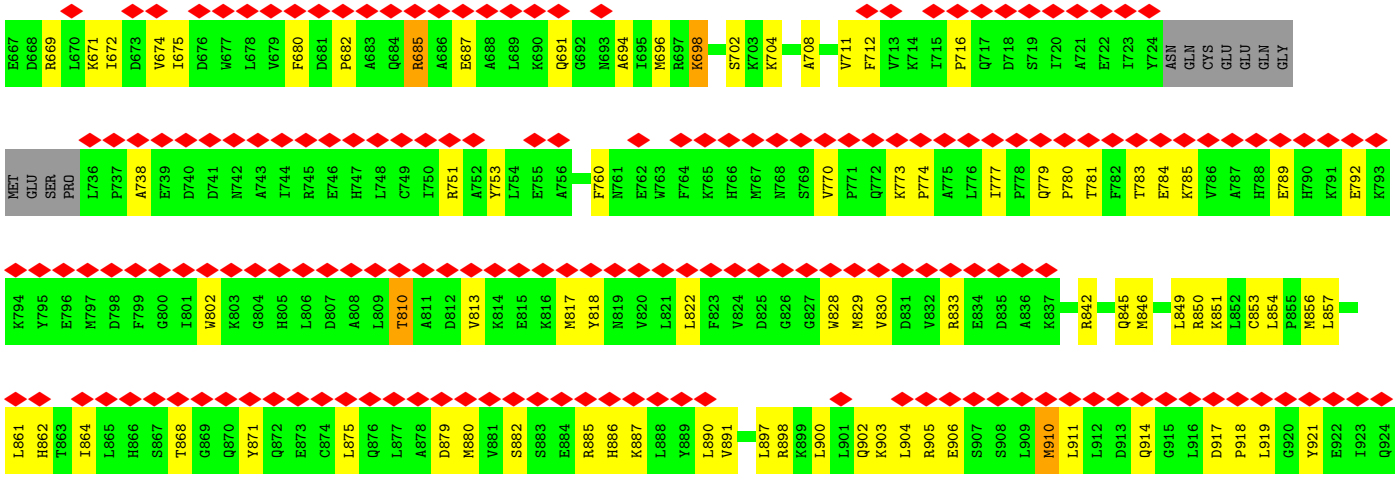
• Molecule 22: NUP107 CTD

Chain T1:



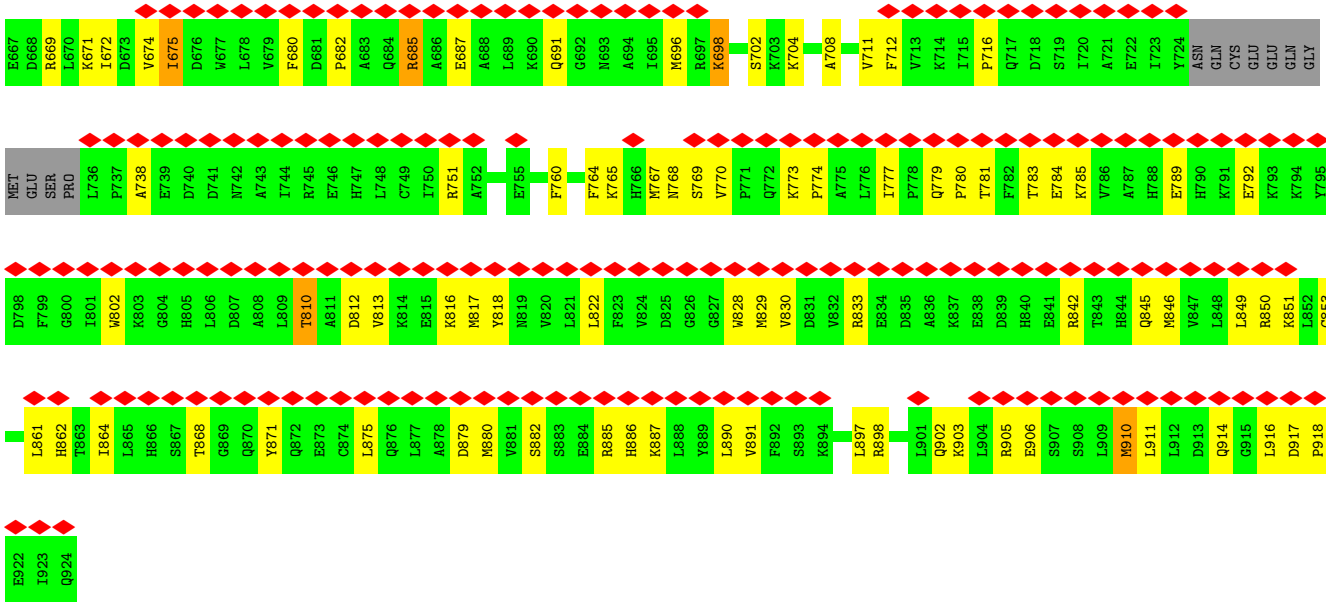
• Molecule 22: NUP107 CTD

Chain T2:



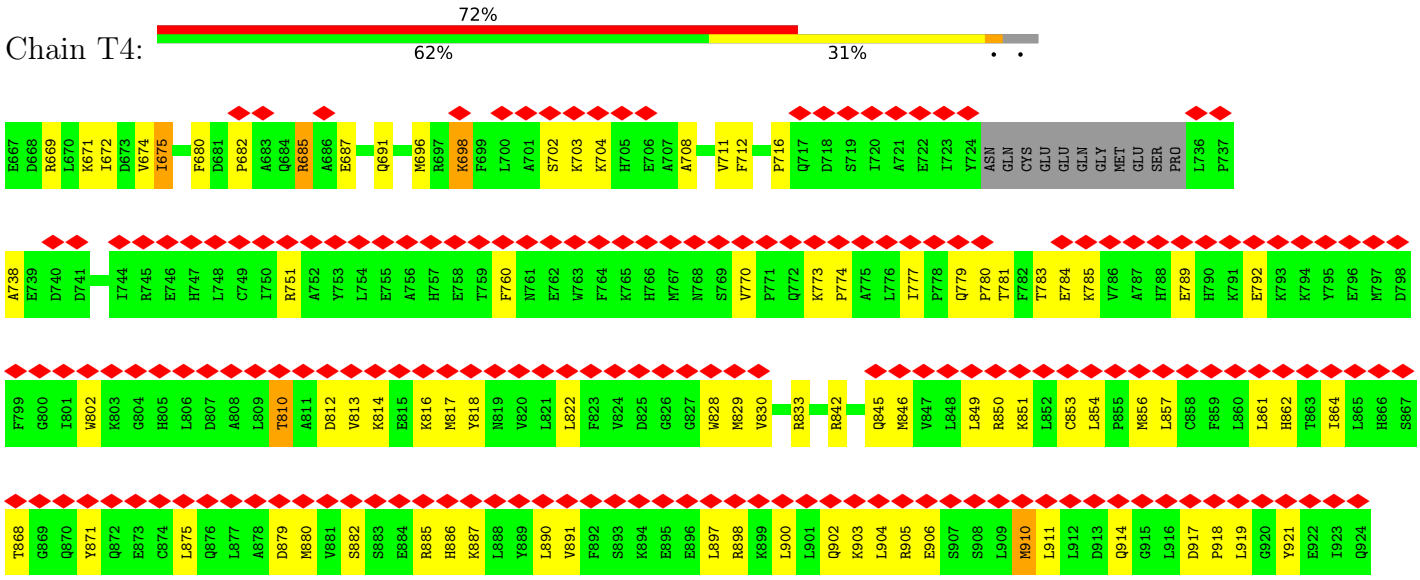
• Molecule 22: NUP107 CTD

Chain T3:



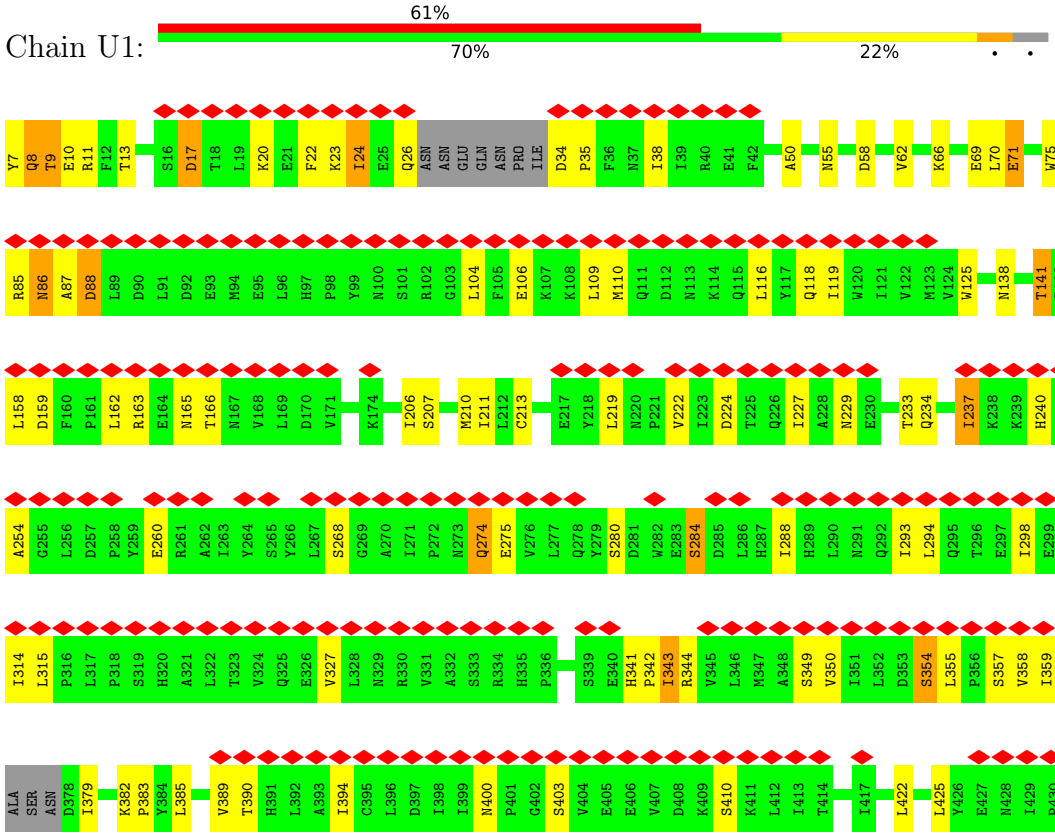
• Molecule 22: NUP107 CTD

Chain T4:



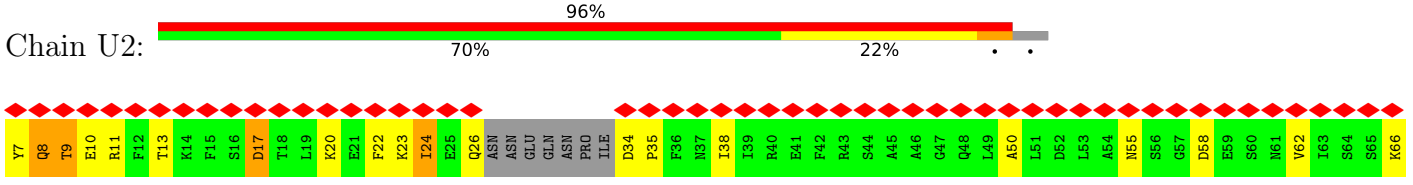
• Molecule 23: NUP107 NTD

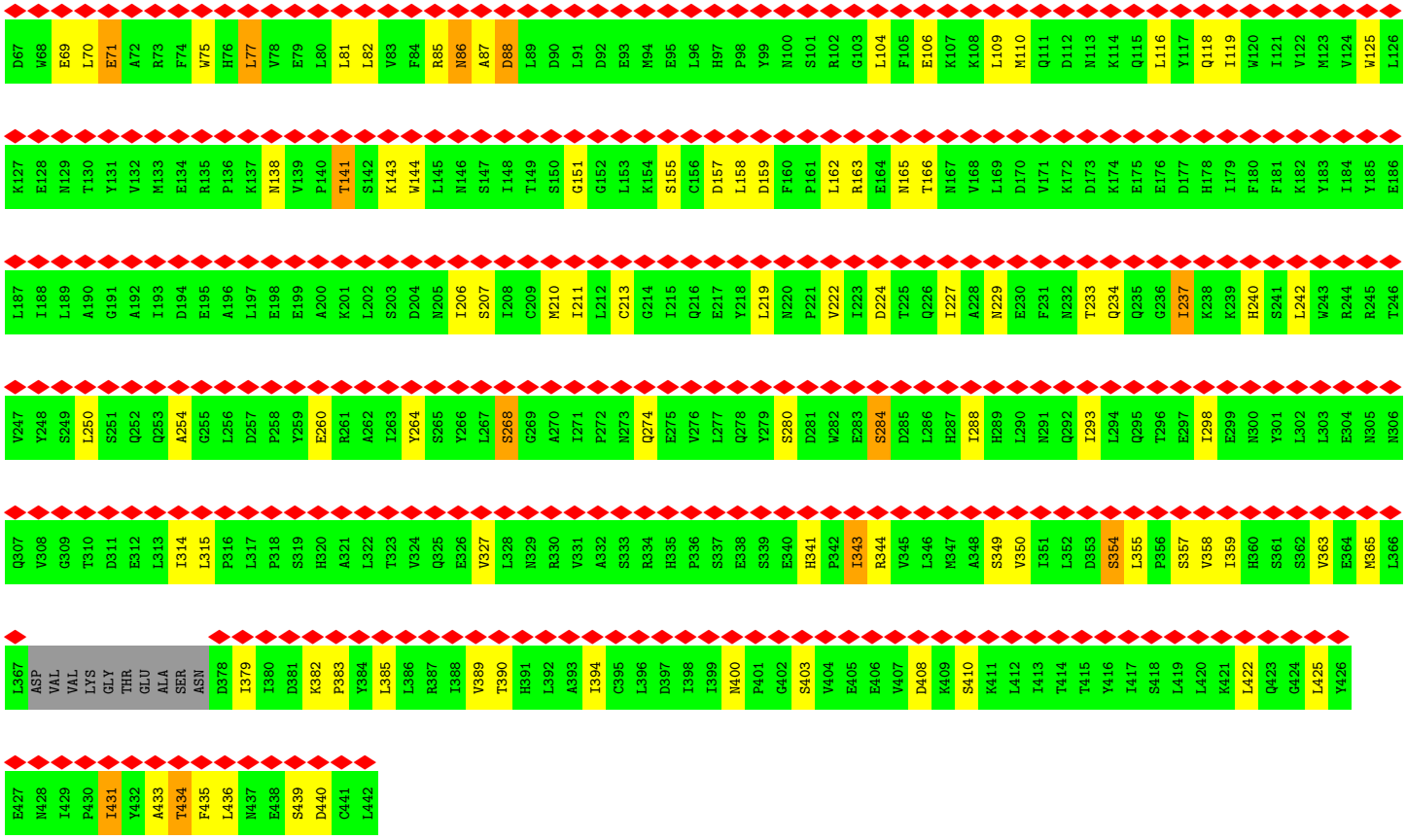
Chain U1:



• Molecule 23: NUP107 NTD

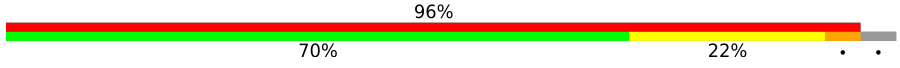
Chain U2:

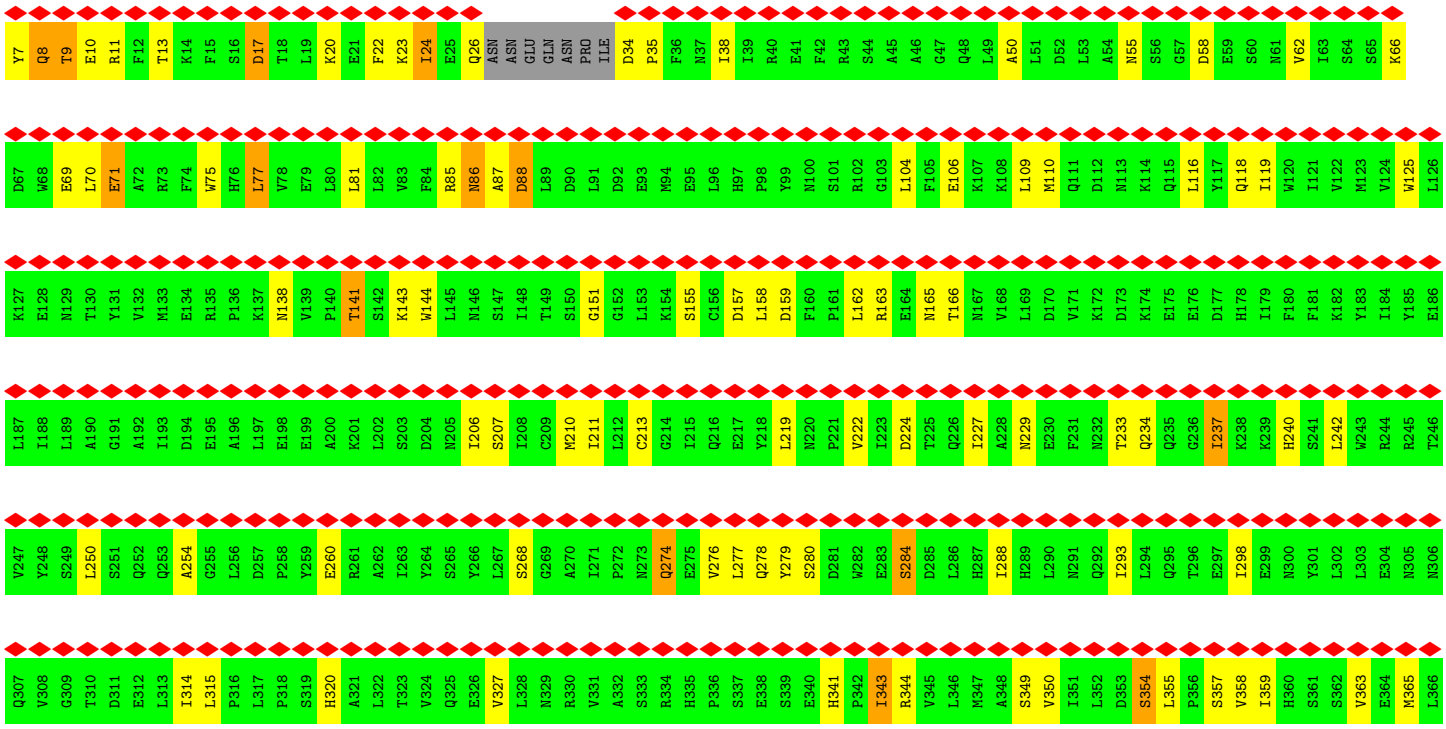


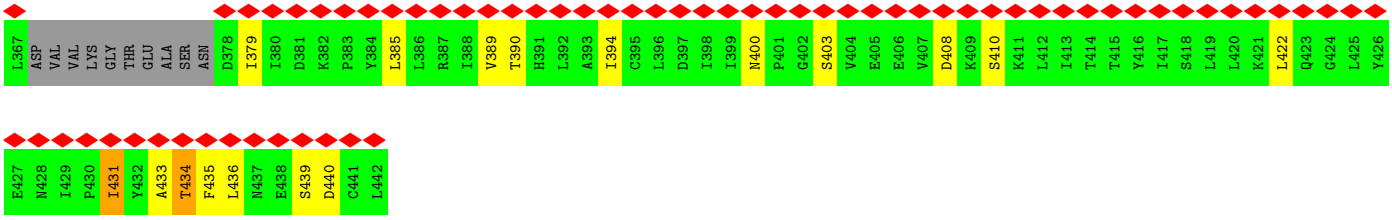


• Molecule 23: NUP107 NTD

Chain U3:

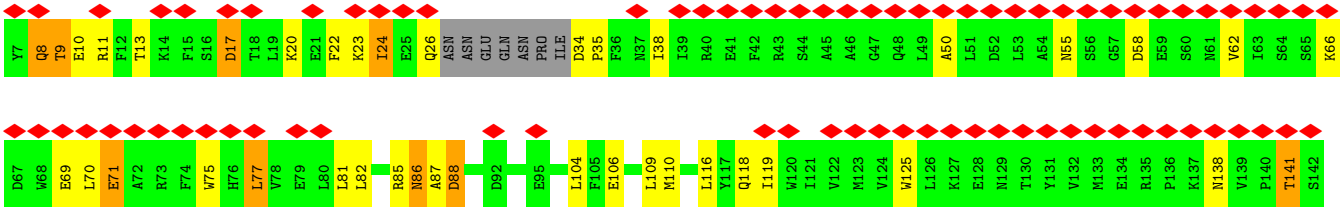






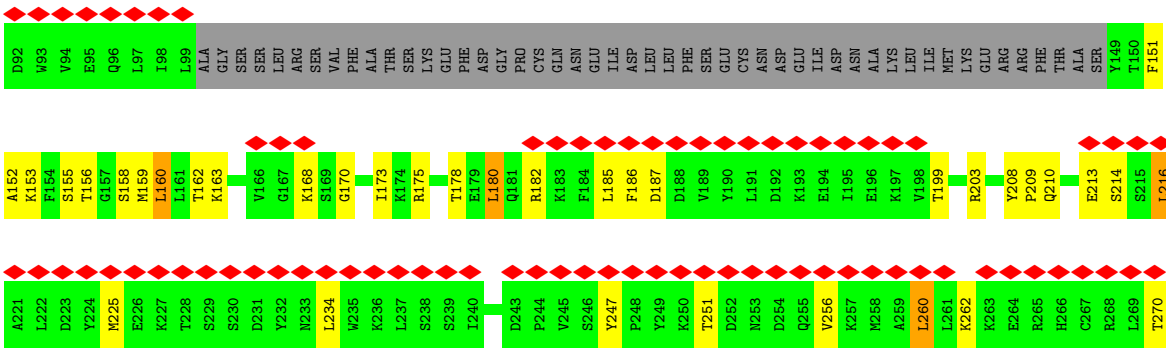
• Molecule 23: NUP107 NTD

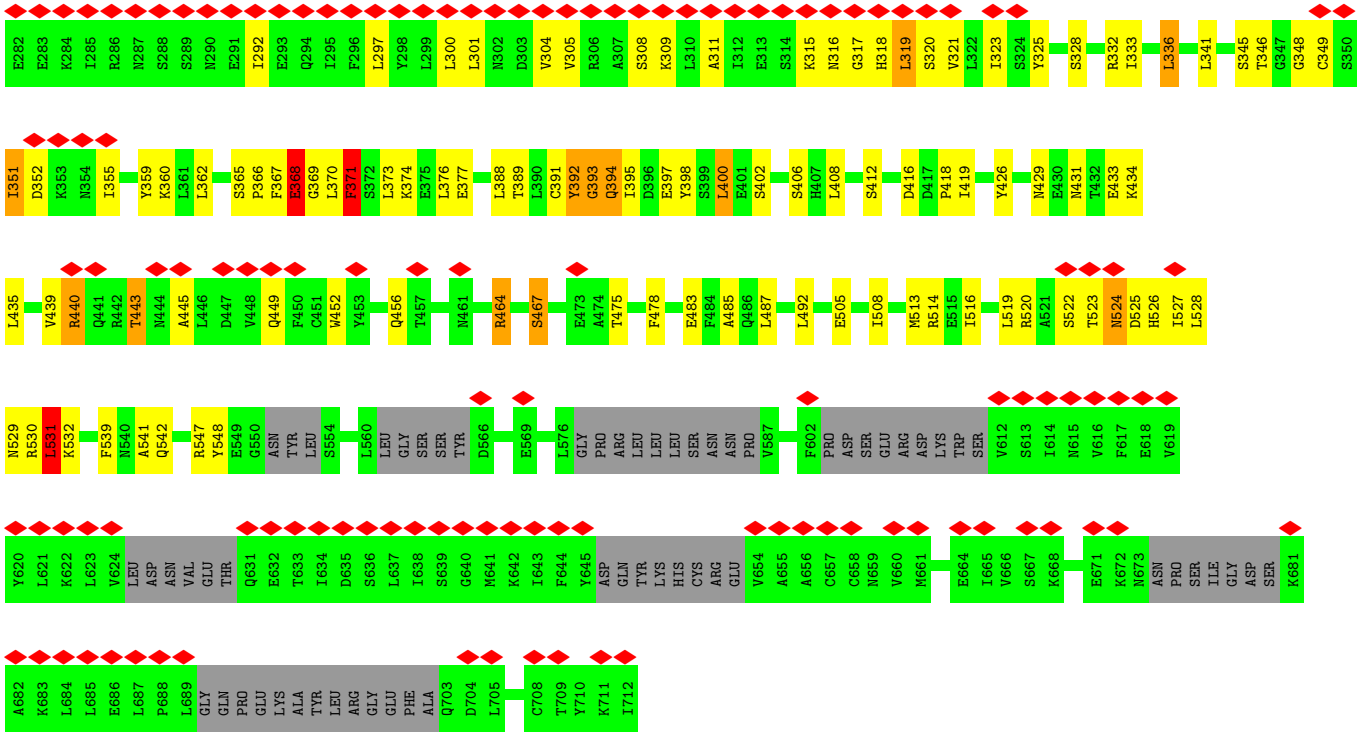
Chain U4:

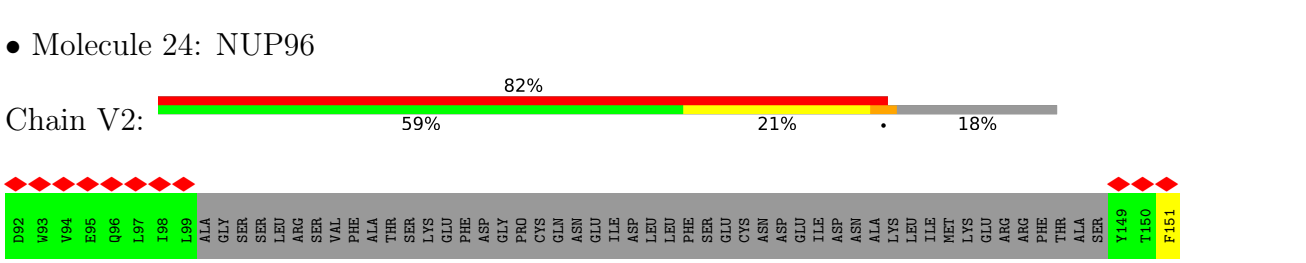


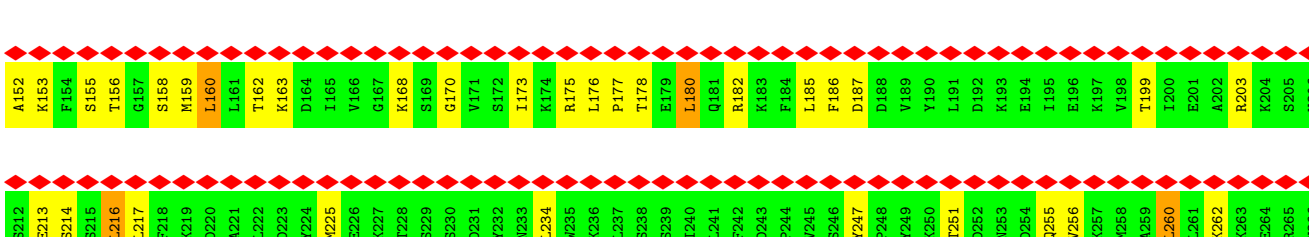
• Molecule 24: NUP96

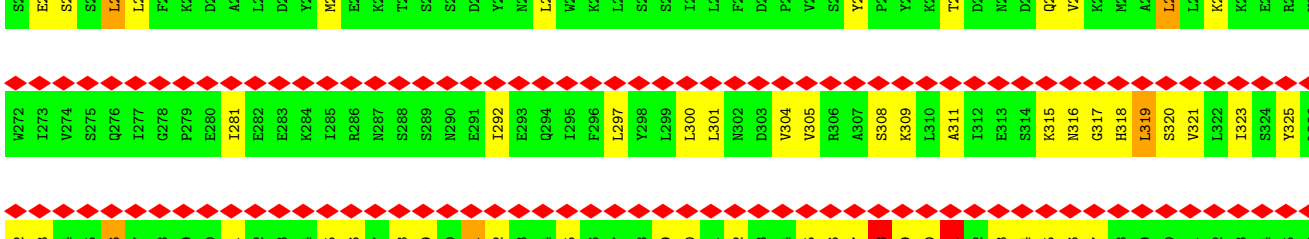
Chain V1:

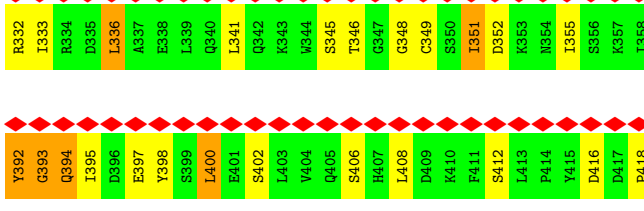






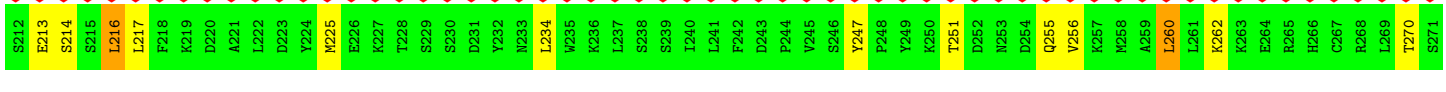


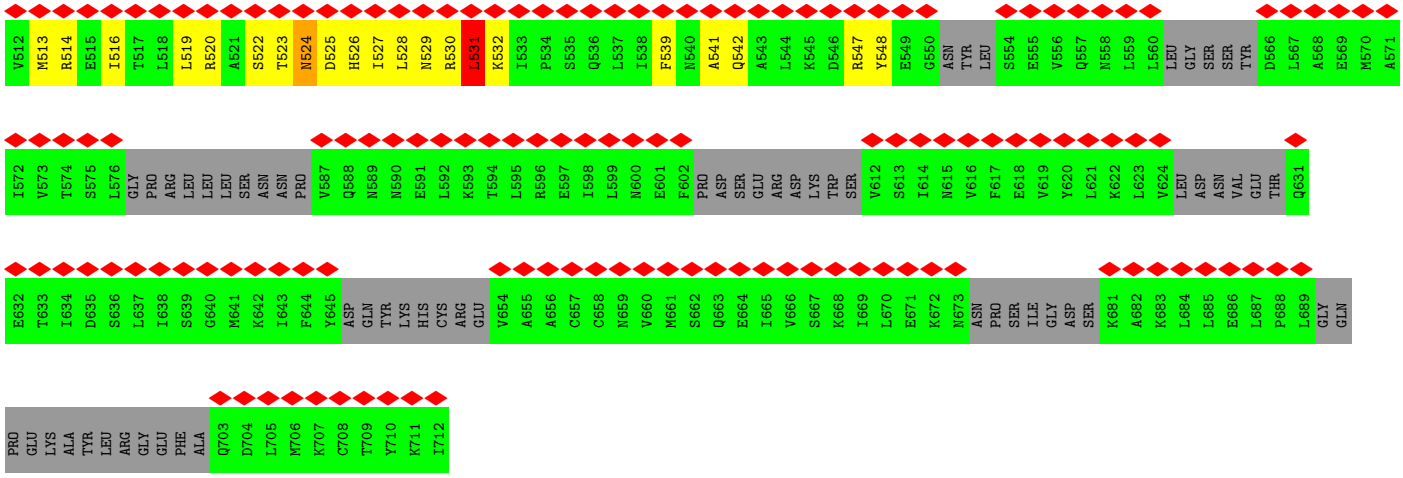




• Molecule 24: NUP96

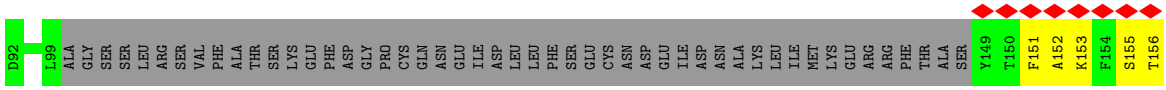
Chain V2:

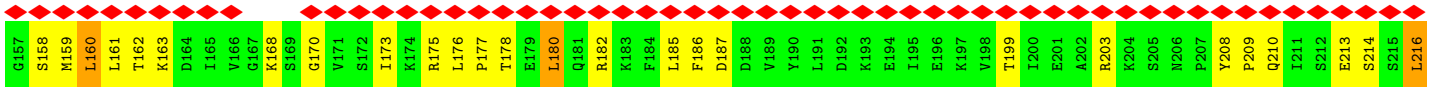


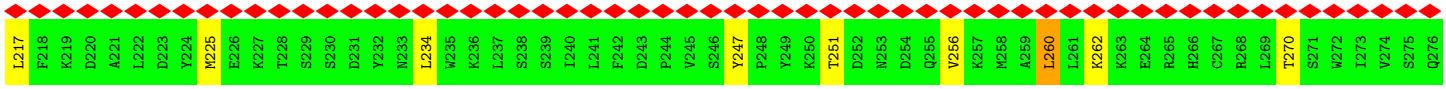


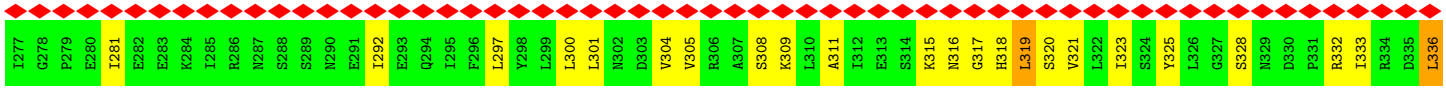
• Molecule 24: NUP96

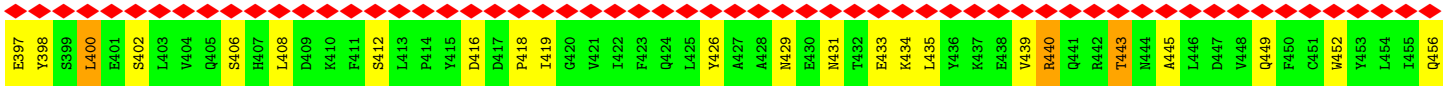
Chain V3:

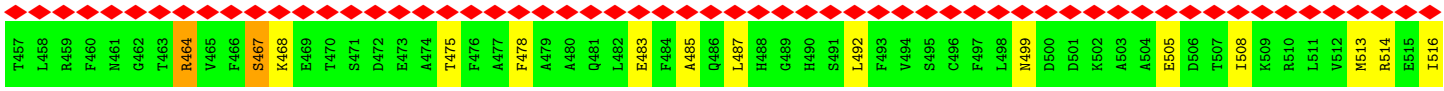


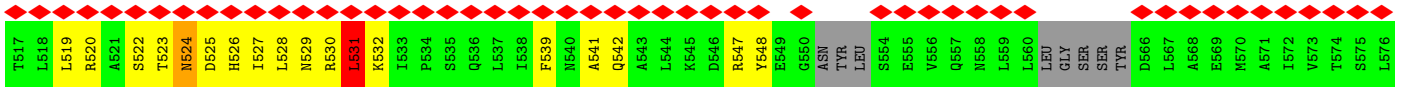


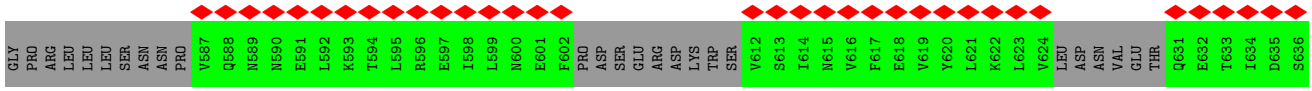


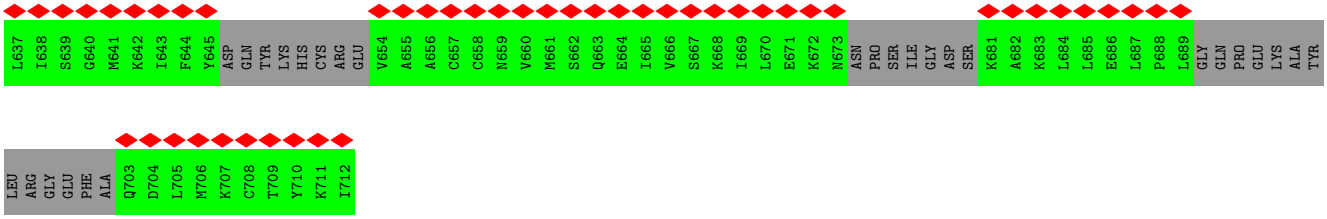






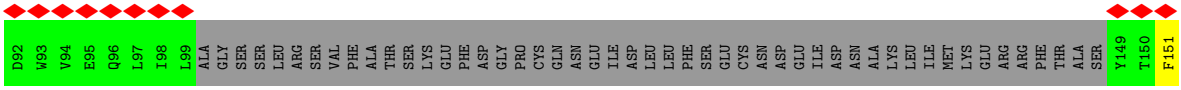


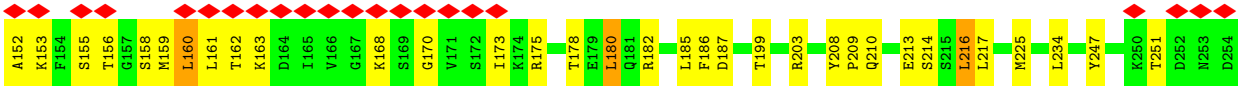


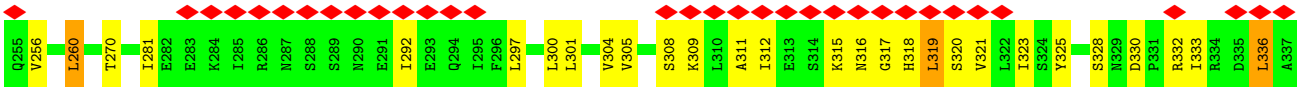


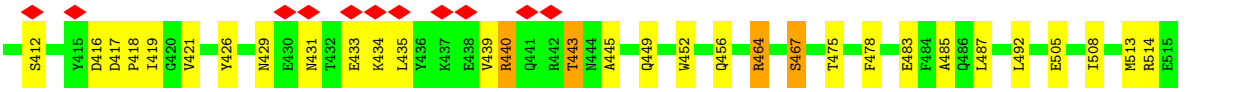
• Molecule 24: NUP96

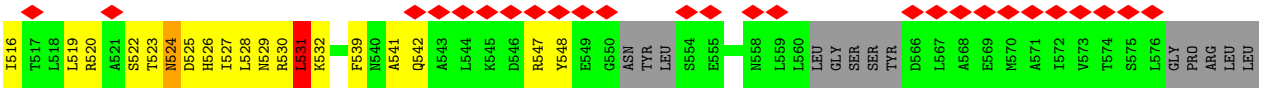
Chain V4:

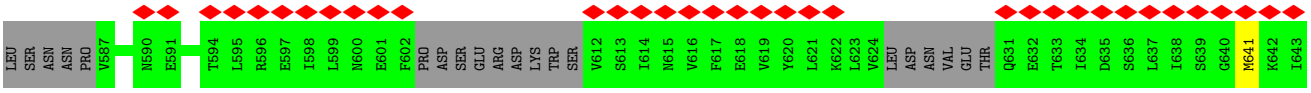


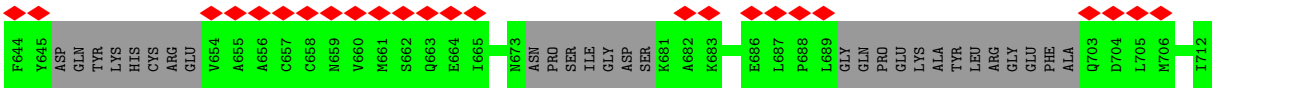


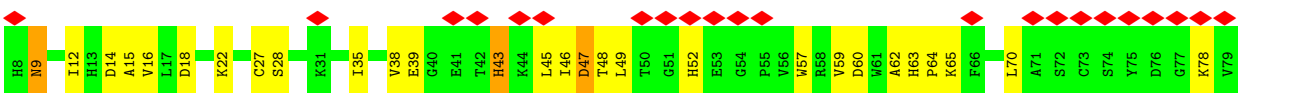






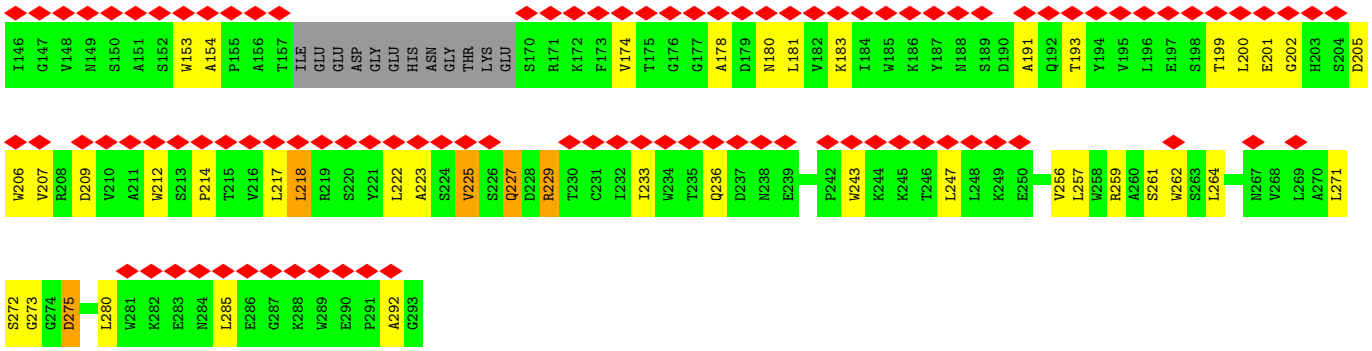






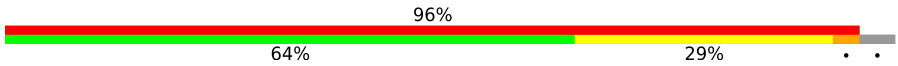
• Molecule 25: SEC13

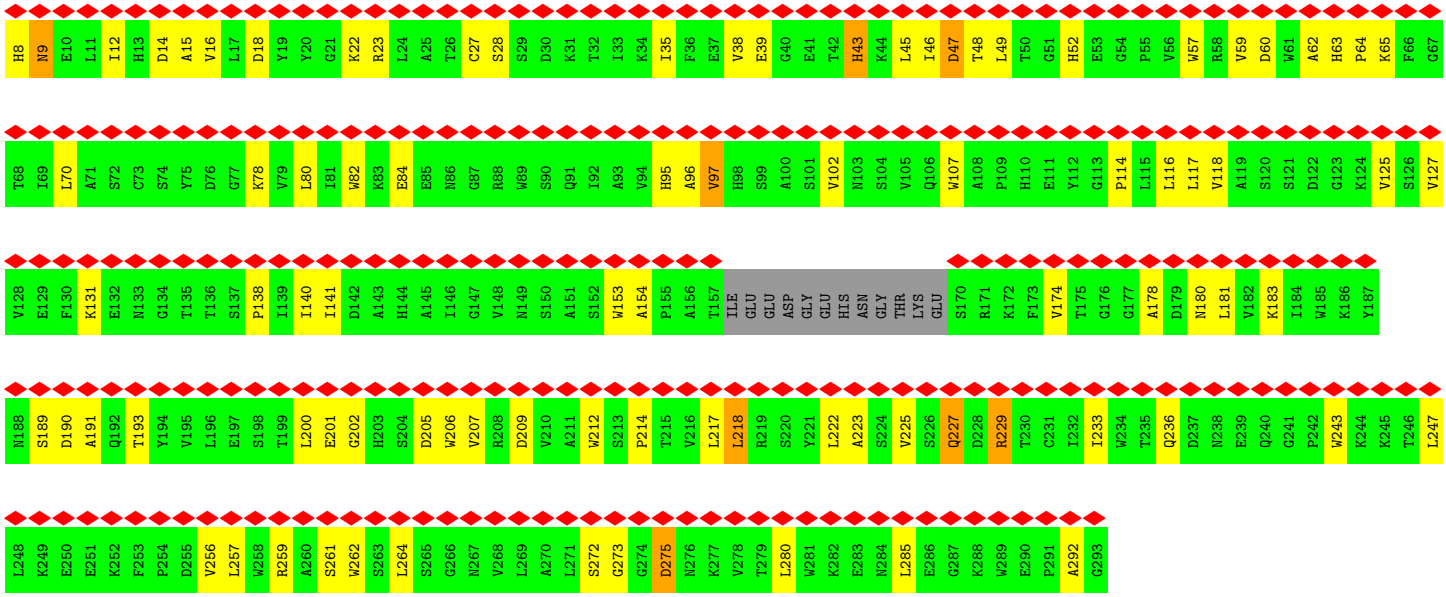
Chain W1:



• Molecule 25: SEC13

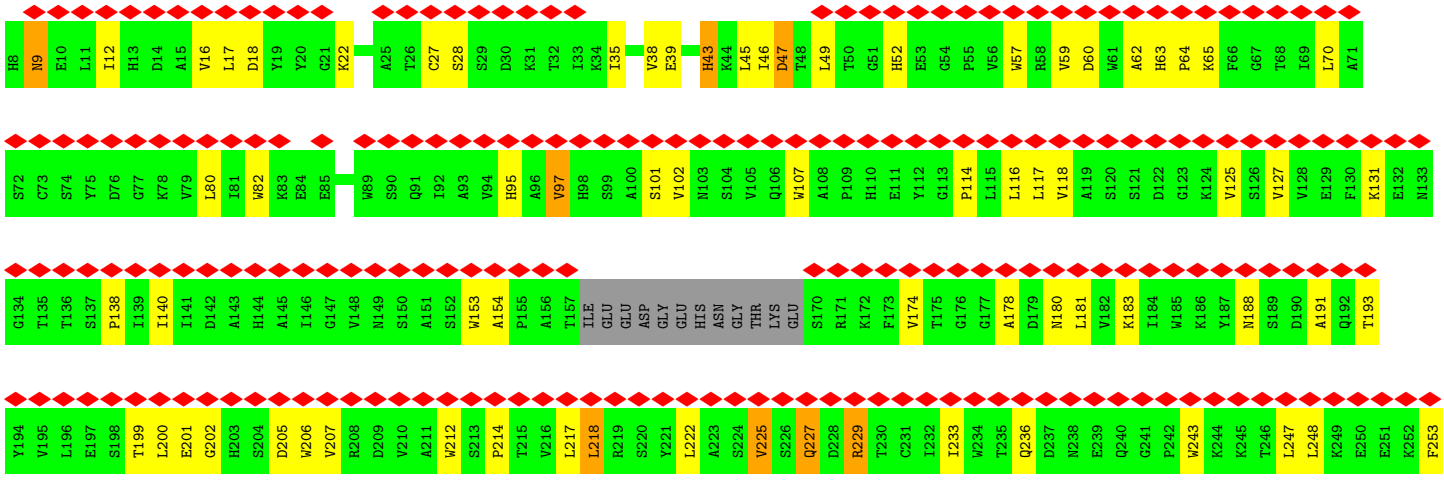
Chain W2:

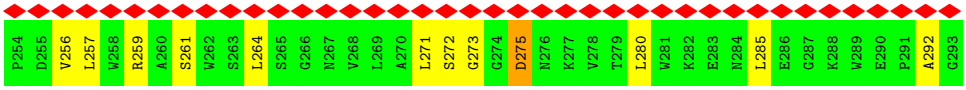




• Molecule 25: SEC13

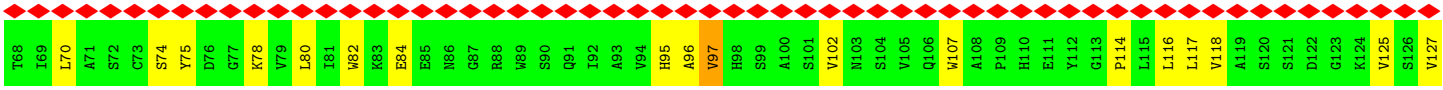
Chain W3:

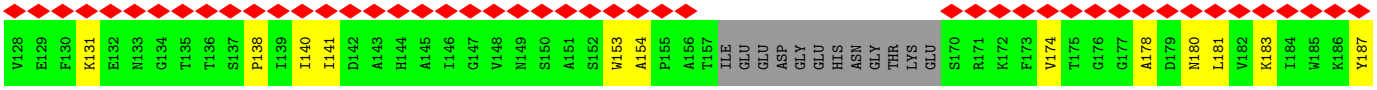


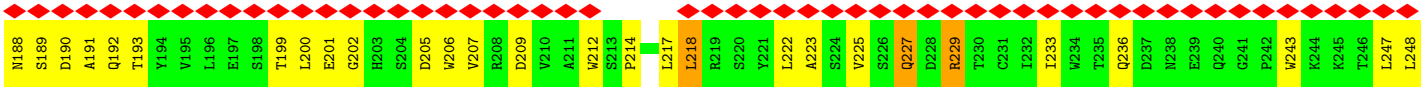


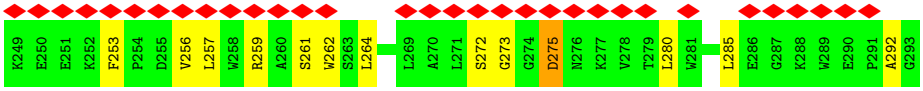
• Molecule 25: SEC13

Chain W4:



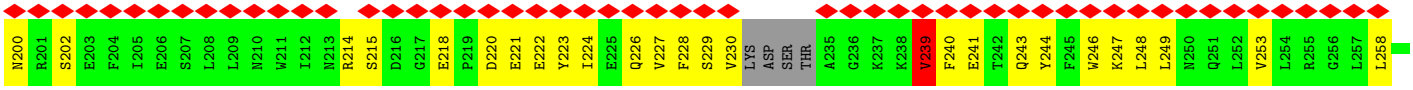


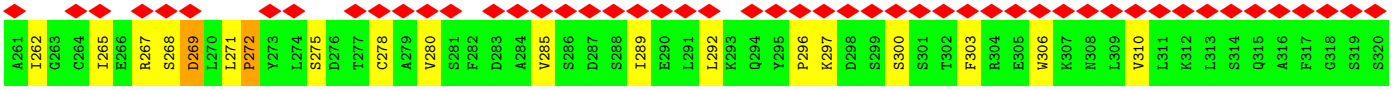


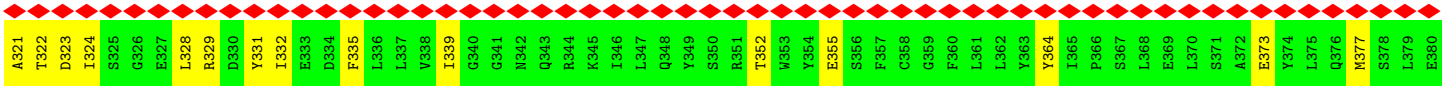


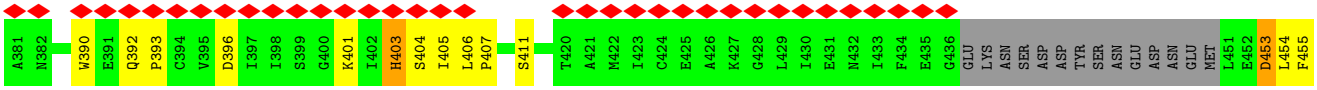
• Molecule 26: NUP75

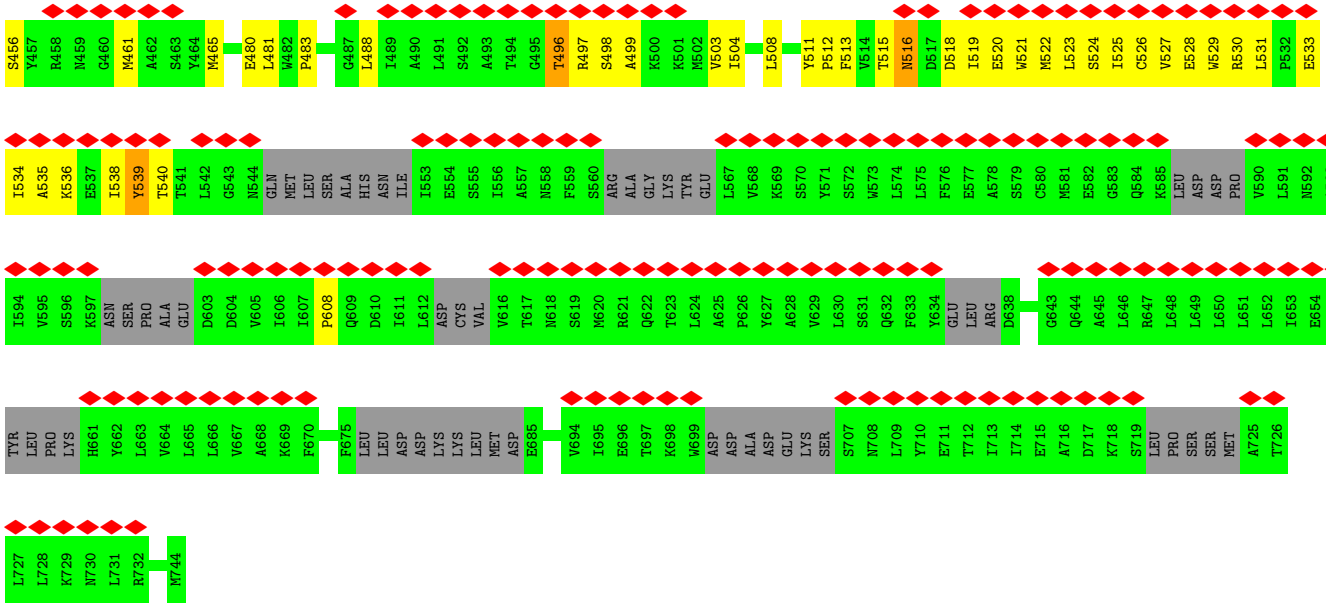
Chain X1:





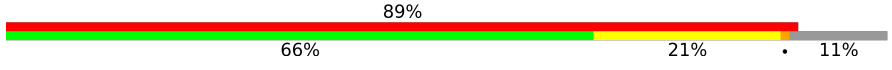


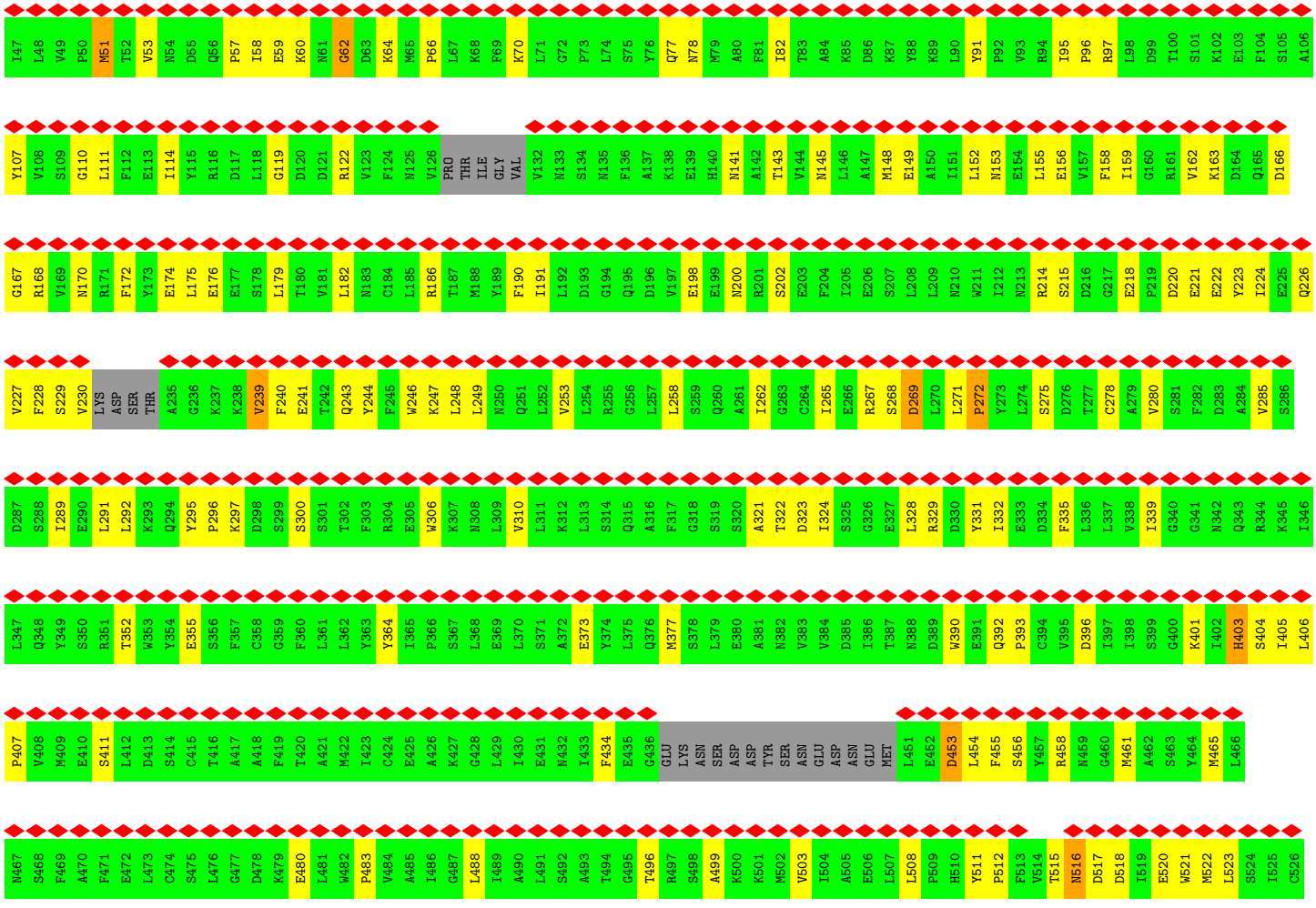


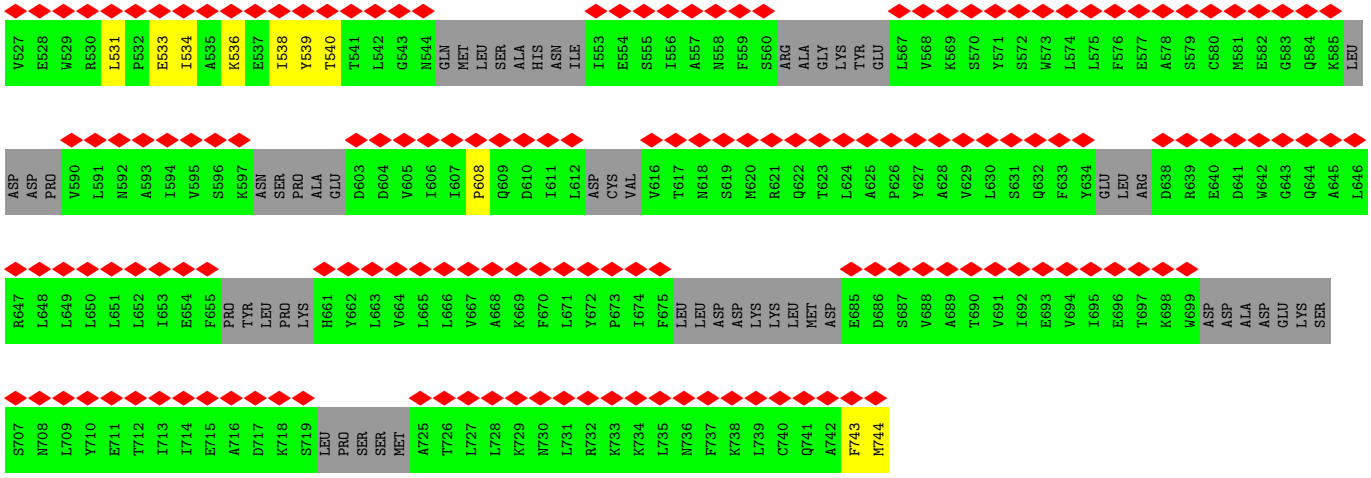


• Molecule 26: NUP75

Chain X2:

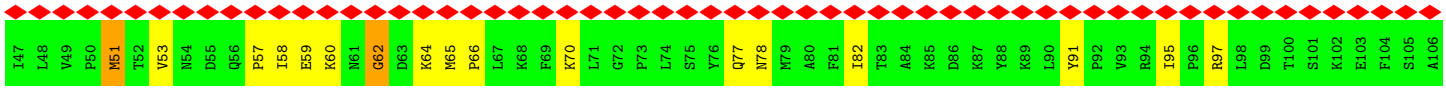


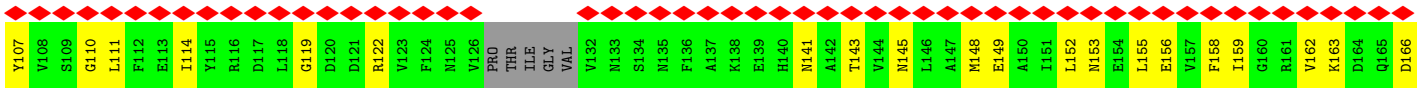


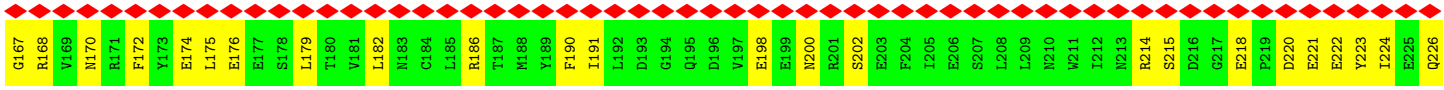


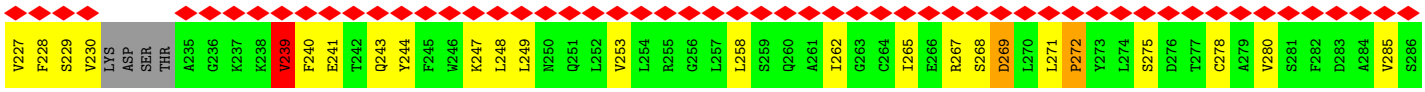
• Molecule 26: NUP75

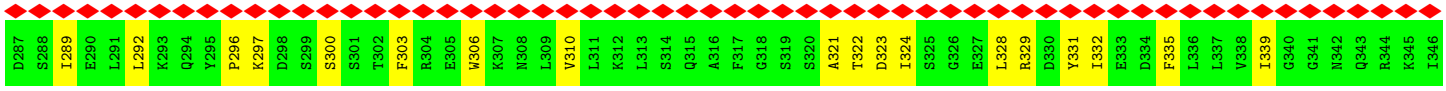
Chain X3:

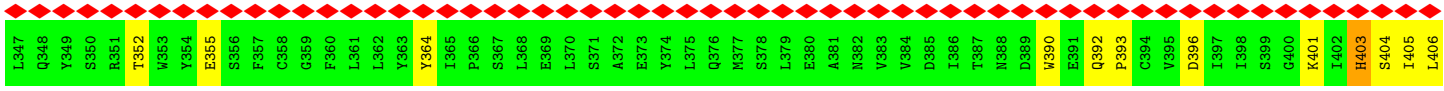


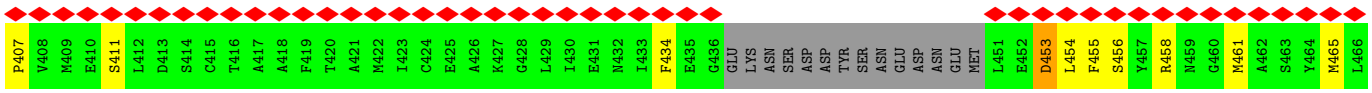


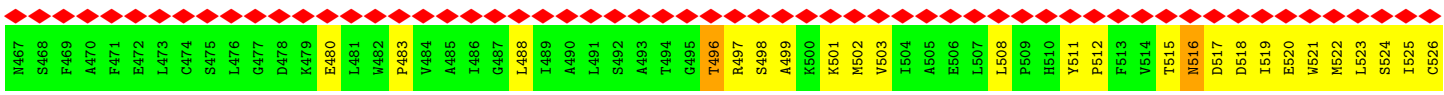


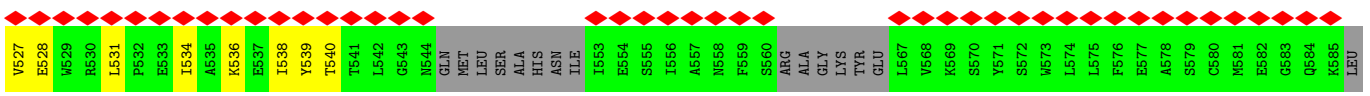


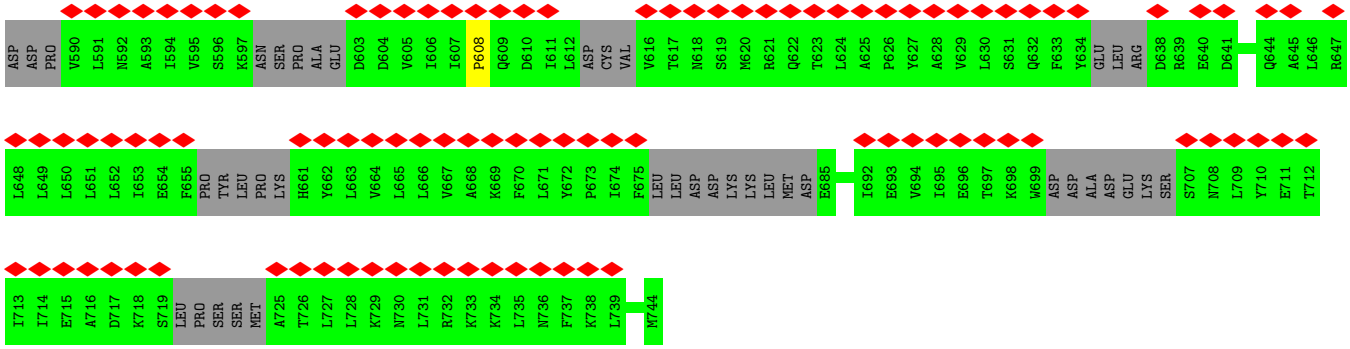






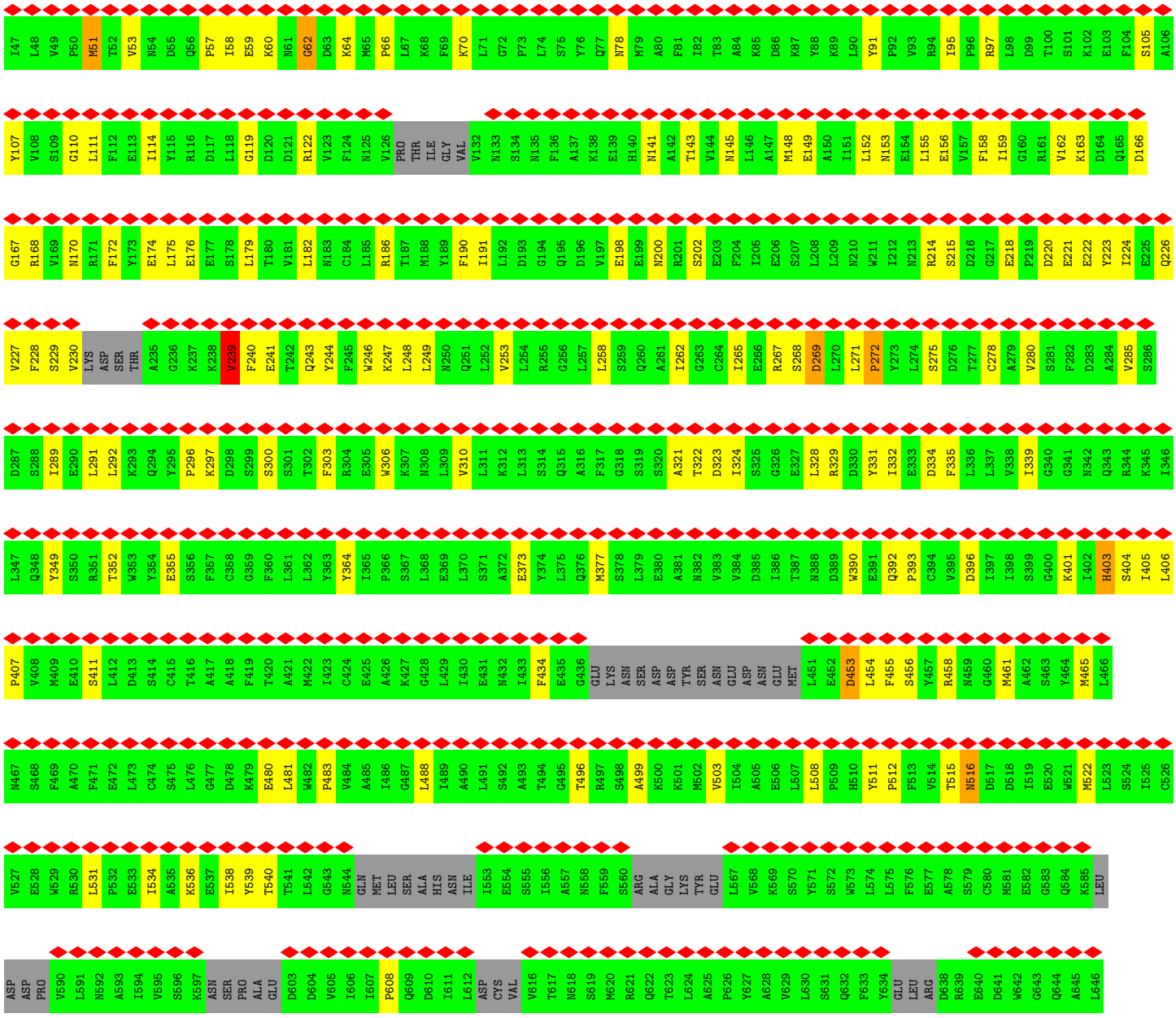


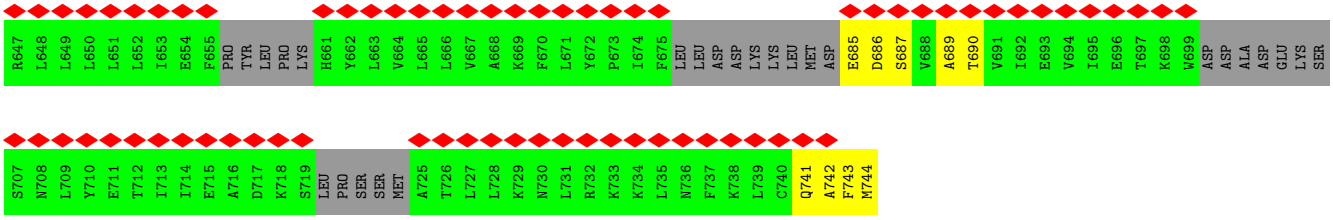




• Molecule 26: NUP75

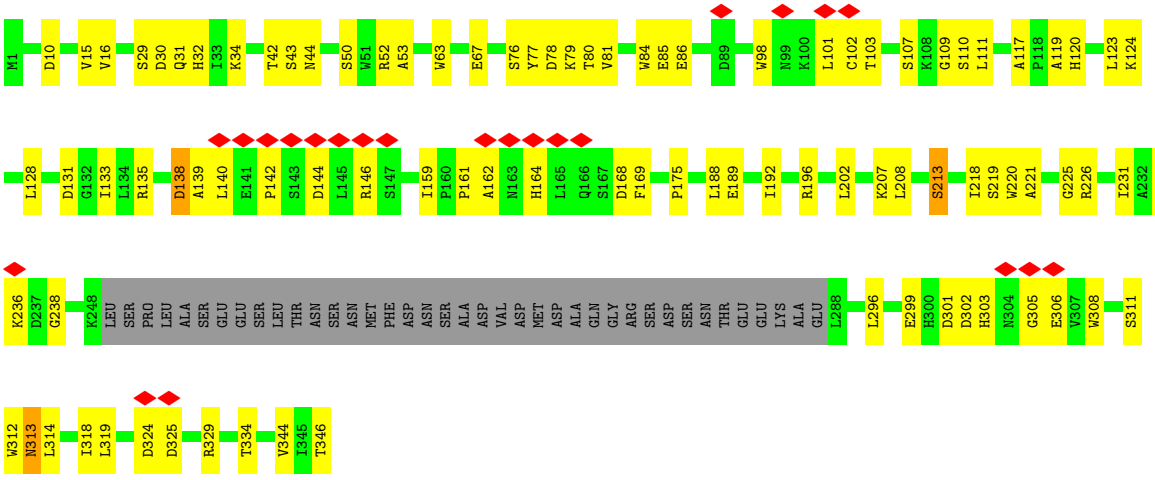
Chain X4:





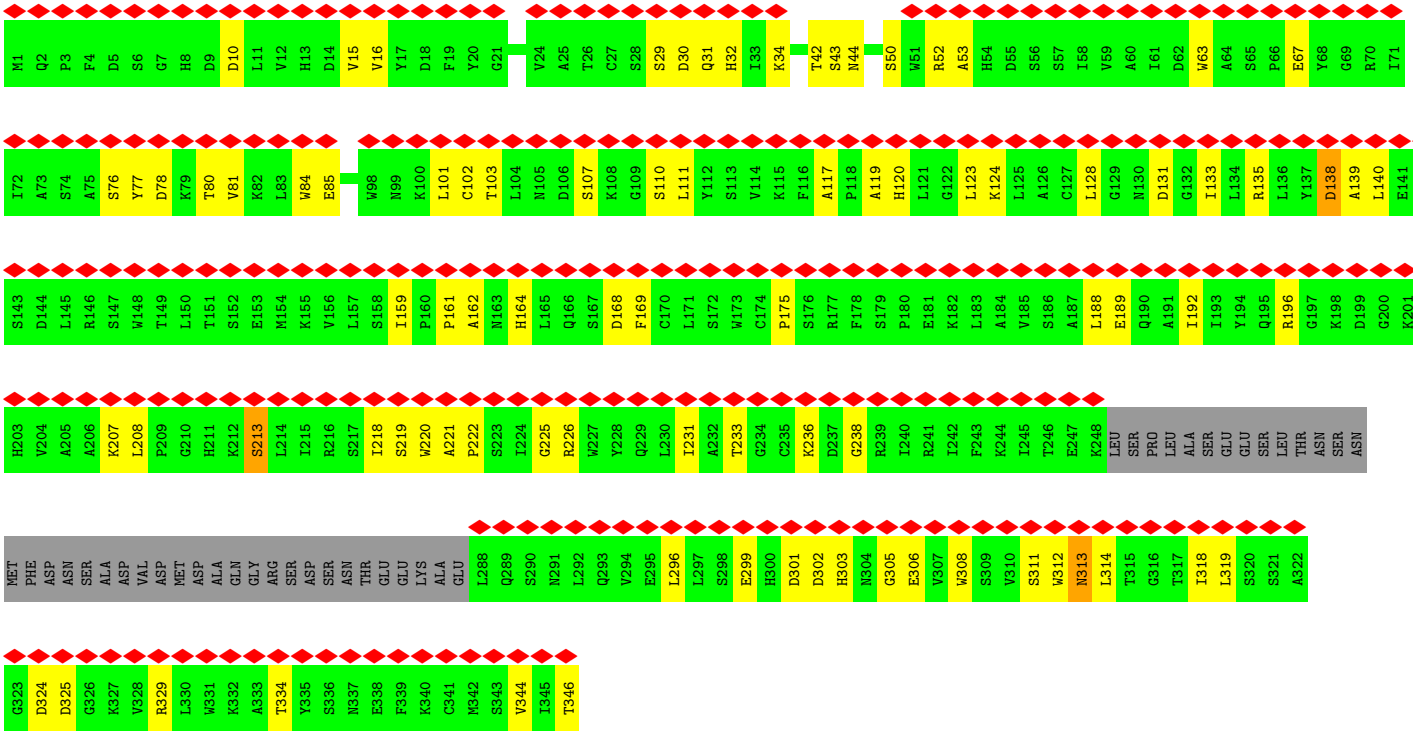
• Molecule 27: SEH1

Chain Y1:



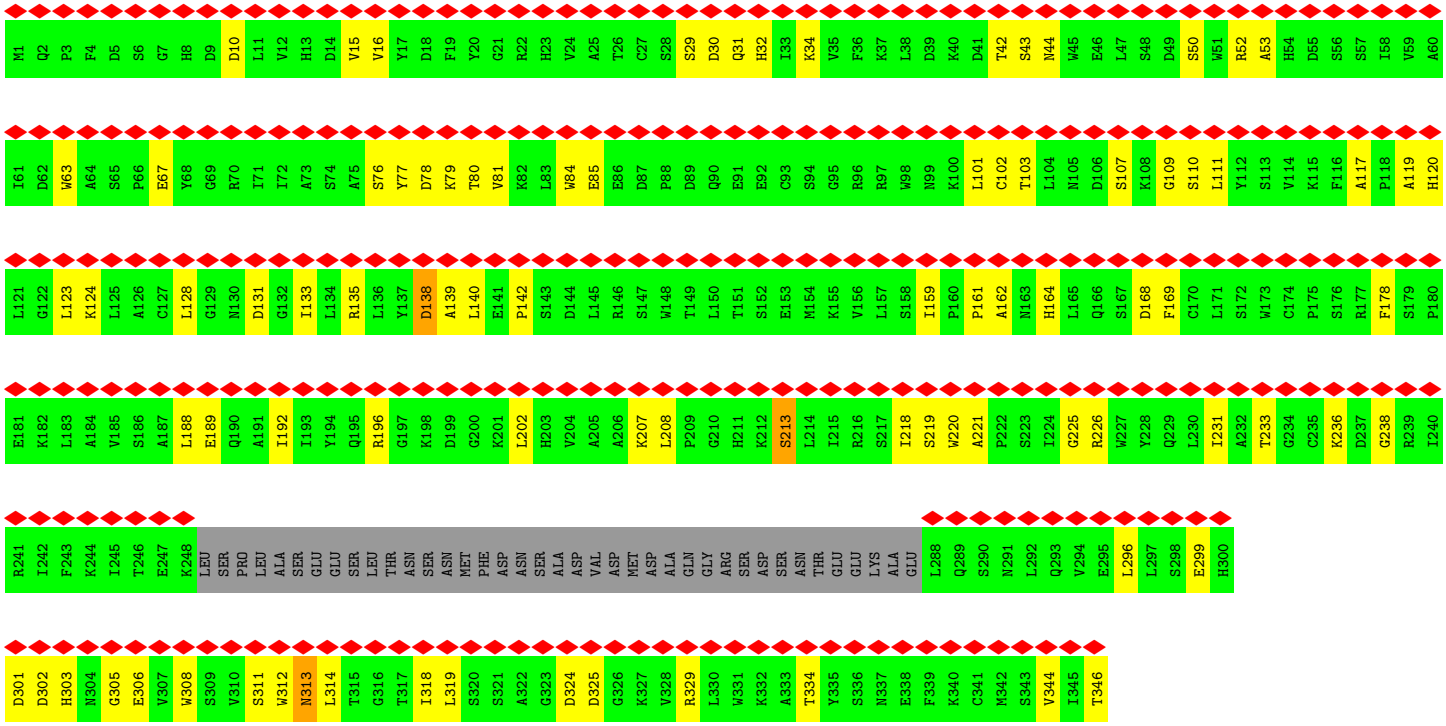
• Molecule 27: SEH1

Chain Y2:



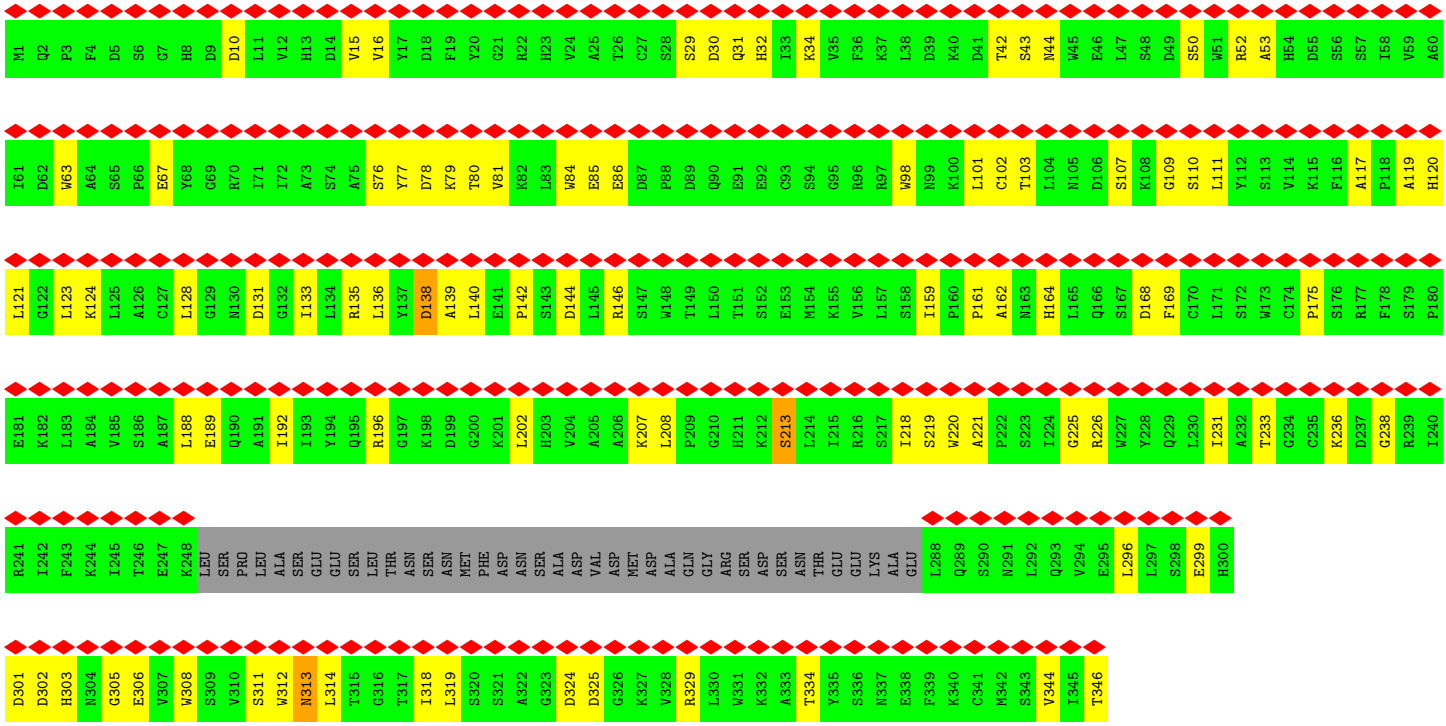
• Molecule 27: SEH1

Chain Y3:



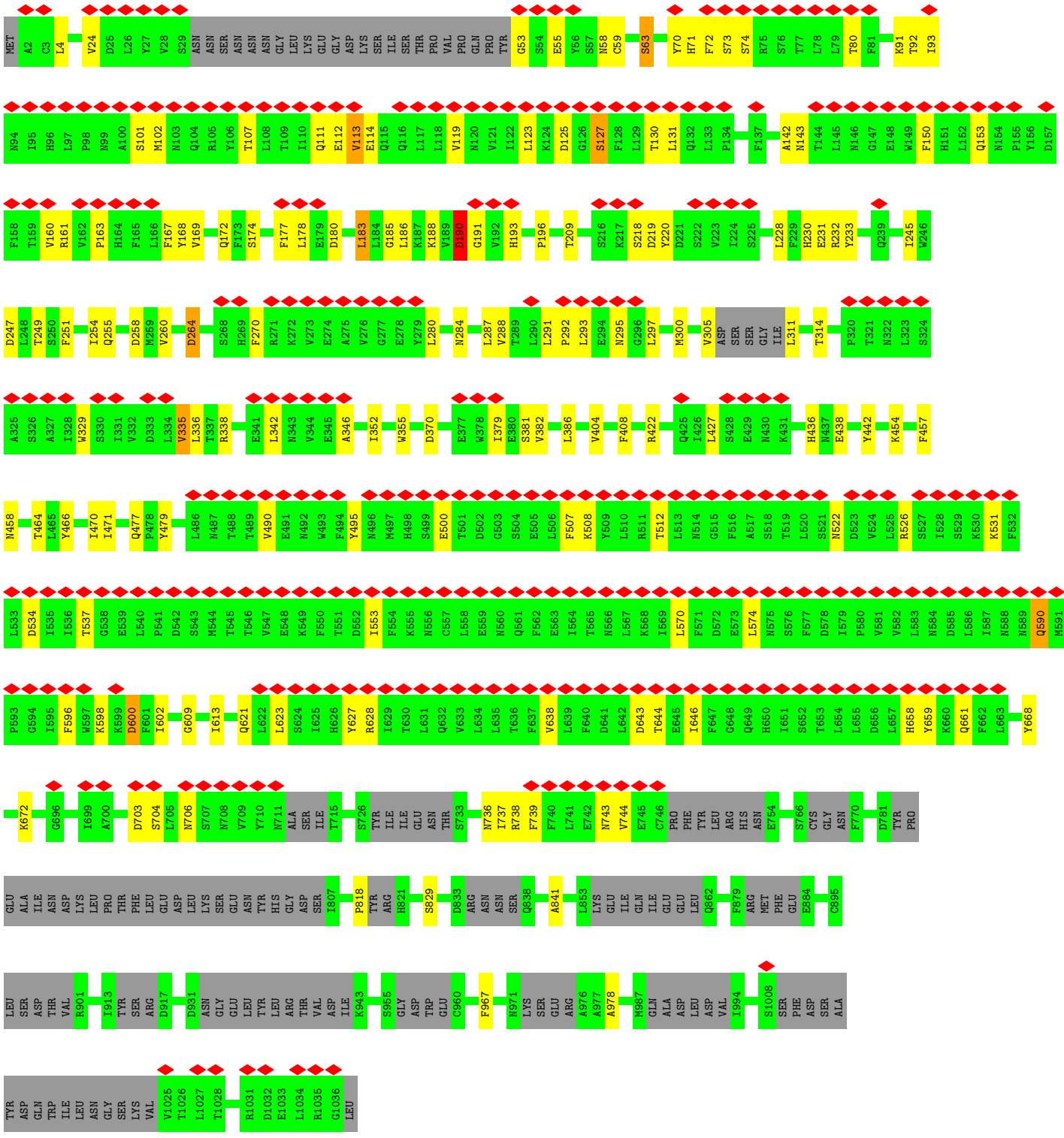
• Molecule 27: SEH1

Chain Y4:



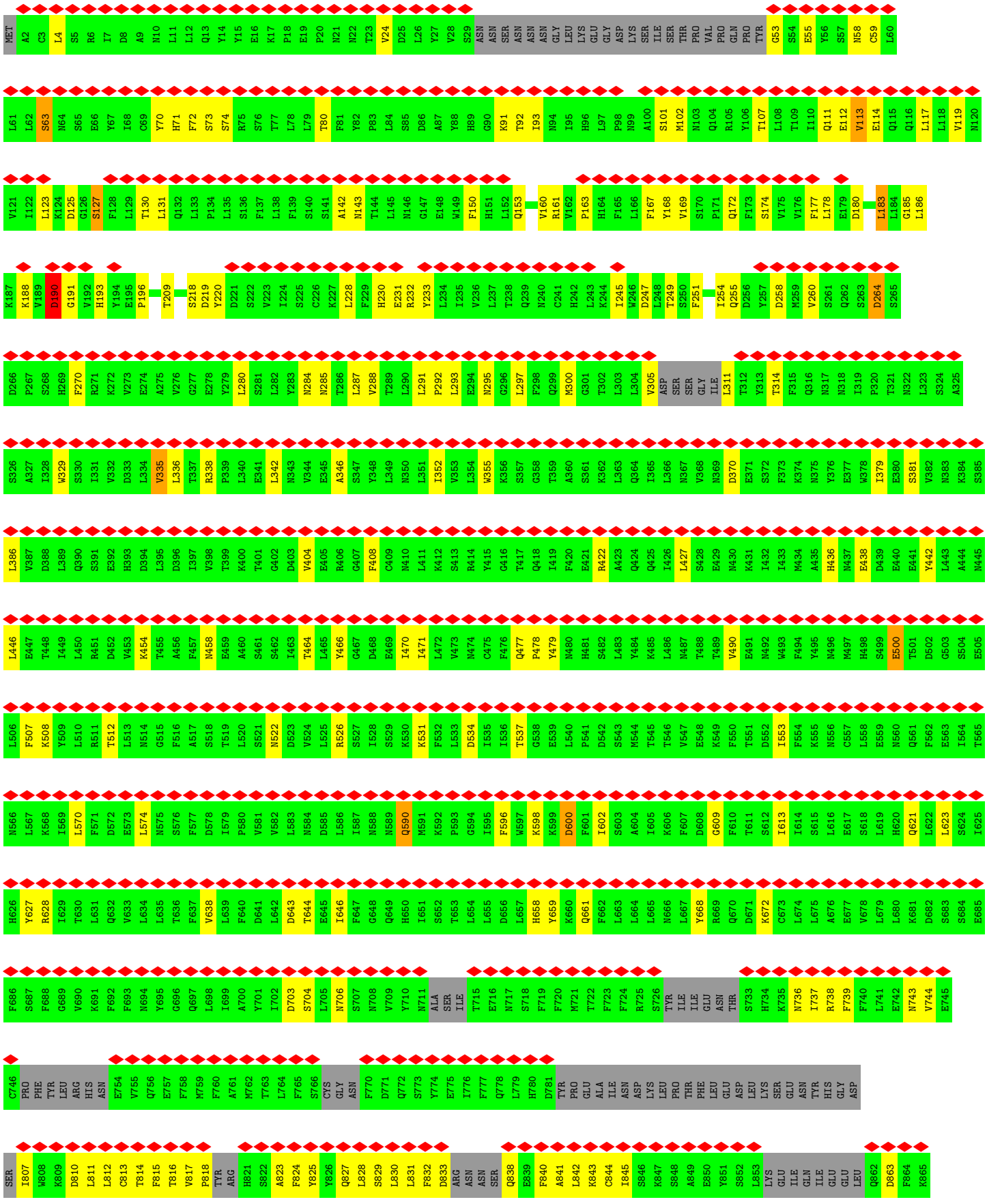
• Molecule 28: NUP160

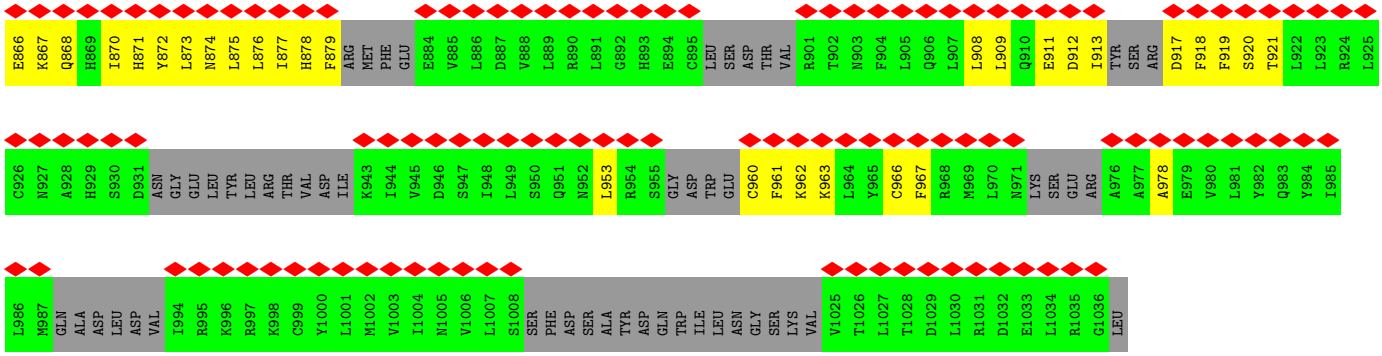
Chain Z1:



• Molecule 28: NUP160

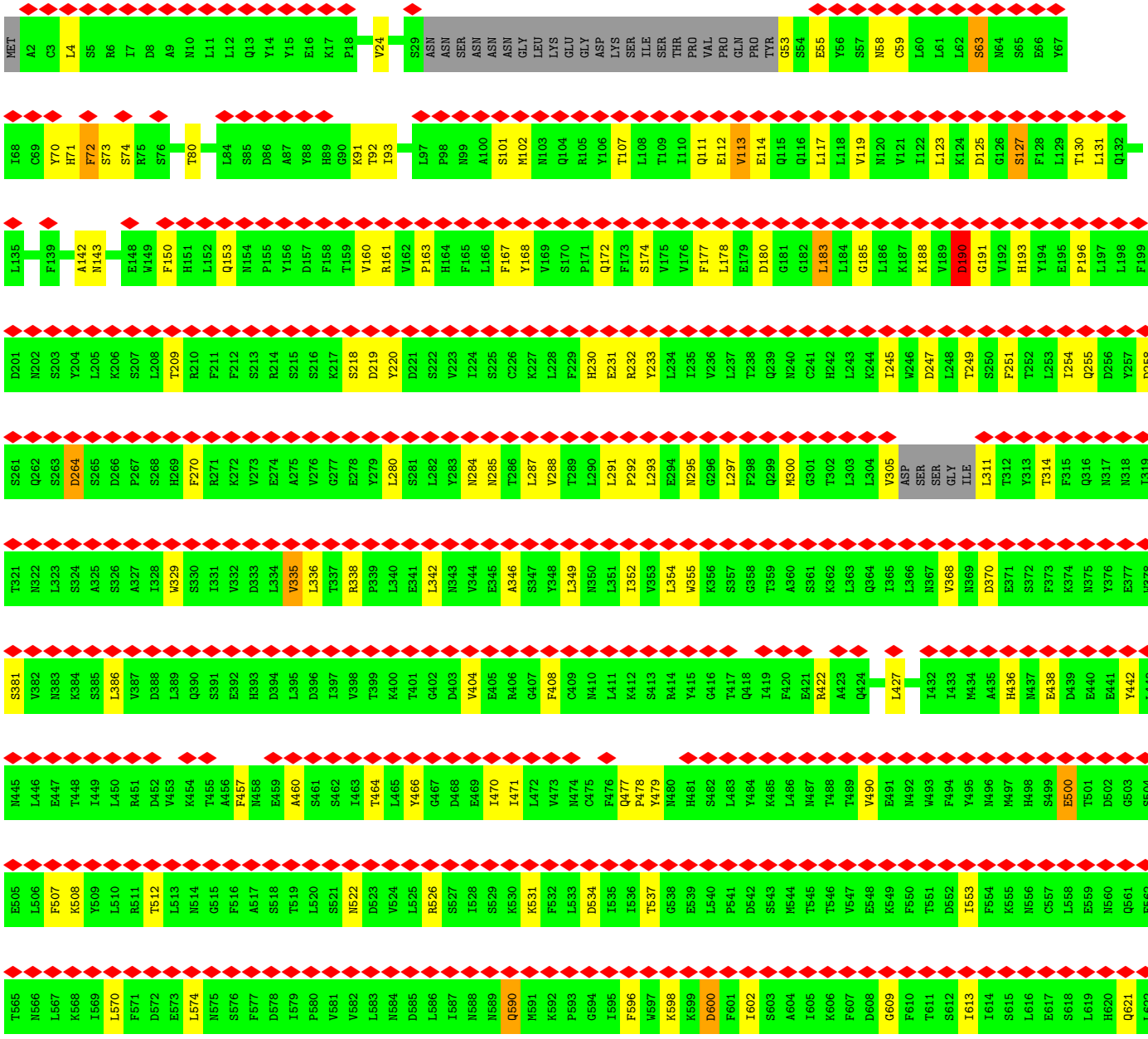
Chain Z2:

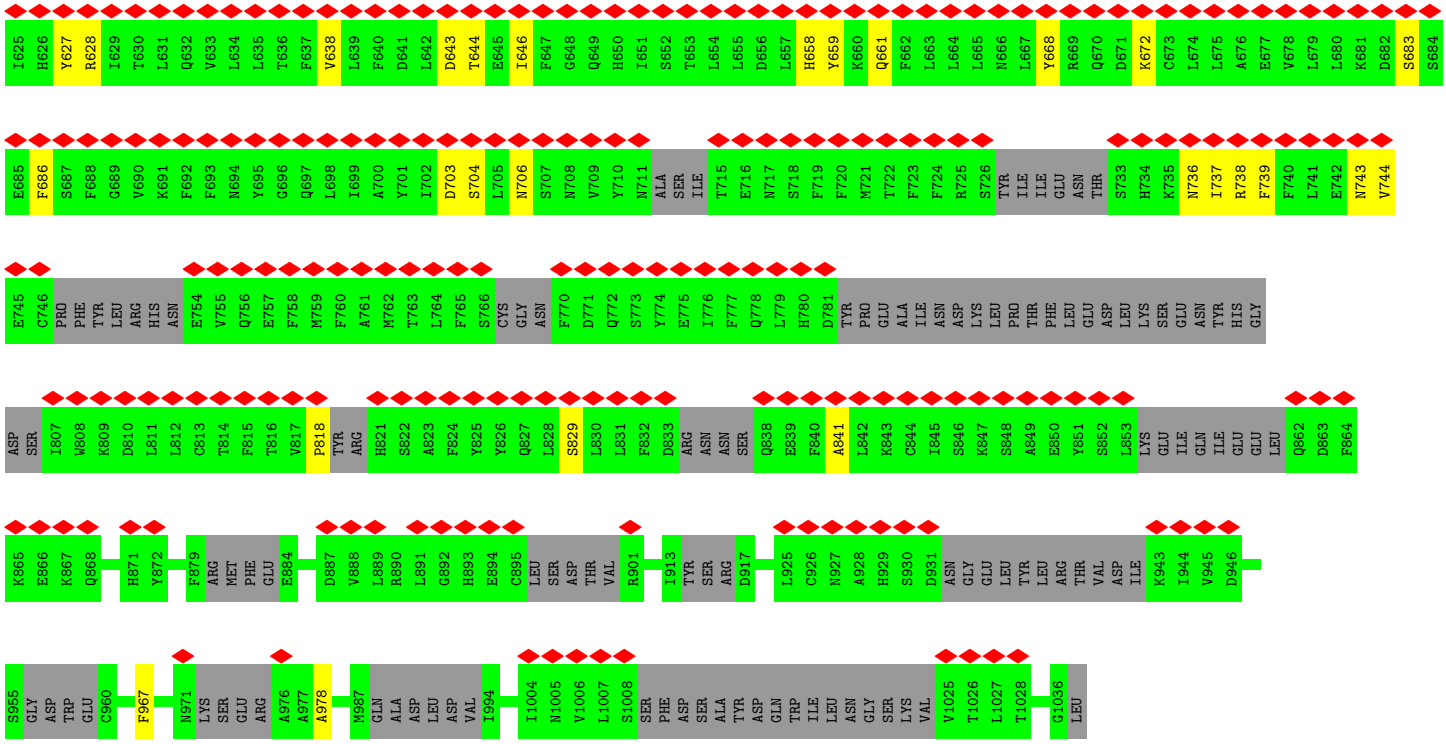

MET A2 C3 L4 S5 R6 I7 D8 A9 N10 L11 L12 Q13 Y14 Y15 E16 K17 P18 E19 P20 N21 N22 T23 V24 D25 L26 Y27 V28 S29 ASN ASN SER ASN ASN ASN GLY LEU LYS GLU GLY ASP LYS SER ILE SER THR PRO VAL PRO GLN PRO TYR G53 S54 E55 Y56 S57 N58 C59 L60
L61 L62 S63 N64 S65 E66 Y67 I68 C69 Y70 H71 F72 S73 S74 R75 S76 T77 L78 L79 T80 F81 Y82 P83 L84 S85 D86 A87 Y88 H89 G90 K91 T92 I93 N94 I95 H96 L97 P98 N99 A100 S101 M102 N103 Q104 R105 Y106 T107 L108 T109 I110 Q111 E112 V113 E114 Q115 Q116 L117 L118 V119 N120
V121 I122 L123 K124 D125 G126 S127 F128 L129 T130 L131 Q132 L133 P134 L135 S136 F137 L138 F139 S140 S141 A142 N143 T144 L145 N146 G147 E148 W149 F150 H151 L152 Q153 V160 R161 V162 P163 H164 F165 L166 F167 Y168 V169 S170 P171 Q172 F173 S174 V175 V176 F177 L178 E179 D180 L183 L184 G185 L186
K187 K188 V189 D190 G191 V192 H193 Y194 E195 P196 T209 S218 D219 Y220 D221 S222 V223 I224 S225 C226 K227 L228 F229 H230 E231 R232 Y233 L234 I235 V236 L237 T238 Q239 N240 C241 H242 L243 K244 I245 W246 D247 L248 T249 S250 F251 I254 Q255 D256 Y257 D258 M259 V260 S261 Q262 S263 D264 S265
D266 P267 S268 H269 F270 R271 K272 V273 E274 A275 Y276 G277 E278 Y279 L280 S281 L282 Y283 N284 N285 T286 L287 V288 T289 L290 L291 P292 L293 E294 N295 G296 L297 F298 Q299 M300 G301 T302 L303 L304 V305 ASP SER SER GLY ILE L311 T312 Y313 T314 F315 Q316 N317 N318 I319 P320 T321 N322 L323 S324 A325
S326 A327 I328 W329 S330 I331 V332 D333 L334 V335 L336 T337 R338 P339 L340 E341 L342 N343 V344 E345 A346 S347 Y348 L349 N350 L351 I352 V353 L354 W355 K356 S357 G358 T359 A360 S361 K362 L363 Q364 I365 L366 N367 V368 N369 D370 E371 S372 F373 K374 N375 Y376 E377 W378 I379 E380 S381 V382 N383 K384 S385
L386 V387 D388 L389 Q390 S391 E392 H393 D394 L395 D396 I397 V398 T399 K400 T401 G402 D403 V404 E405 R406 G407 F408 C409 N410 L411 K412 S413 R414 Y415 G416 T417 Q418 I419 F420 E421 R422 A423 Q424 Q425 I426 L427 S428 E429 N430 K431 I432 I433 M434 A435 H436 N437 E438 D439 E440 E441 Y442 L443 A444 N445
L446 E447 T448 I449 L450 R451 D452 V453 K454 T455 A456 F457 N458 E459 A460 S461 S462 I463 T464 L465 Y466 G467 D468 E469 I470 I471 L472 V473 N474 C475 F476 Q477 P478 Y479 N480 H481 S482 L483 Y484 K485 L486 N487 T488 T489 V490 E491 N492 W493 F494 Y495 N496 M497 H498 S499 E500 T501 D502 G503 S504 E505
L506 F507 K508 Y509 L510 R511 T512 L513 N514 G515 F516 A517 S518 T519 L520 S521 N522 D523 V524 L525 R526 S527 I528 S529 K530 K531 F532 L533 D534 I535 I536 T537 G538 E539 L540 P541 D542 S543 M544 T545 T546 V547 E548 K549 F550 T551 D552 I553 F554 K555 N556 C557 L558 E559 N560 Q561 F562 E563 I564 T565
N566 L567 K568 I569 L570 F571 D572 E573 L574 N575 S576 F577 D578 I579 P580 V581 V582 L583 N584 D585 L586 I587 N588 N589 Q590 M591 K592 P593 G594 I595 F596 W597 K598 K599 D600 F601 I602 S603 A604 I605 K606 F607 D608 G609 F610 T611 S612 I613 I614 S615 L616 E617 S618 L619 H620 Q621 L622 L623 S624 I625
H626 Y627 R628 I629 T630 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 L667 Y668 R669 Q670 D671 K672 C673 L674 L675 A676 E677 V678 L679 L680 K681 D682 S683 S684 E685
F686 S687 F688 G689 V690 K691 F692 F693 N694 Y695 G696 Q697 L698 I699 A700 Y701 I702 D703 S704 L705 N706 S707 N708 V709 Y710 N711 ALA SER ILE T715 E716 N717 S718 F719 F720 M721 T722 F723 F724 R725 S726 TYR ILE ILE GLU ASN THR S733 H734 K735 N736 I737 R738 F739 F740 L741 E742 N743 V744 E745
C746 PRO PHE TYR LEU ARG HIS ASN E754 V755 Q756 E757 F758 M759 F760 A761 M762 T763 L764 F765 S766 CYS GLY ASN F770 D771 Q772 S773 Y774 E775 I776 F777 Q778 L779 H780 D781 TYR PRO GLU ALA ILE ASN ASP LYS LEU PRO THR PHE LEU GLU ASP LEU LYS SER GLU GLU ASN TYR HIS GLY ASP
SER I807 W808 K809 D810 L811 L812 C813 T814 F815 T816 V817 P818 TYR ARG H821 S822 A823 F824 Y825 Y826 Q827 L828 S829 L830 L831 F832 D833 ARG ASN ASN SER Q838 E839 F840 A841 L842 K843 C844 I845 S846 K847 S848 A849 E850 Y851 S852 L853 LYS GLU ILE GLN ILE GLU GLU LEU Q862 D863 F864 K865



• Molecule 28: NUP160

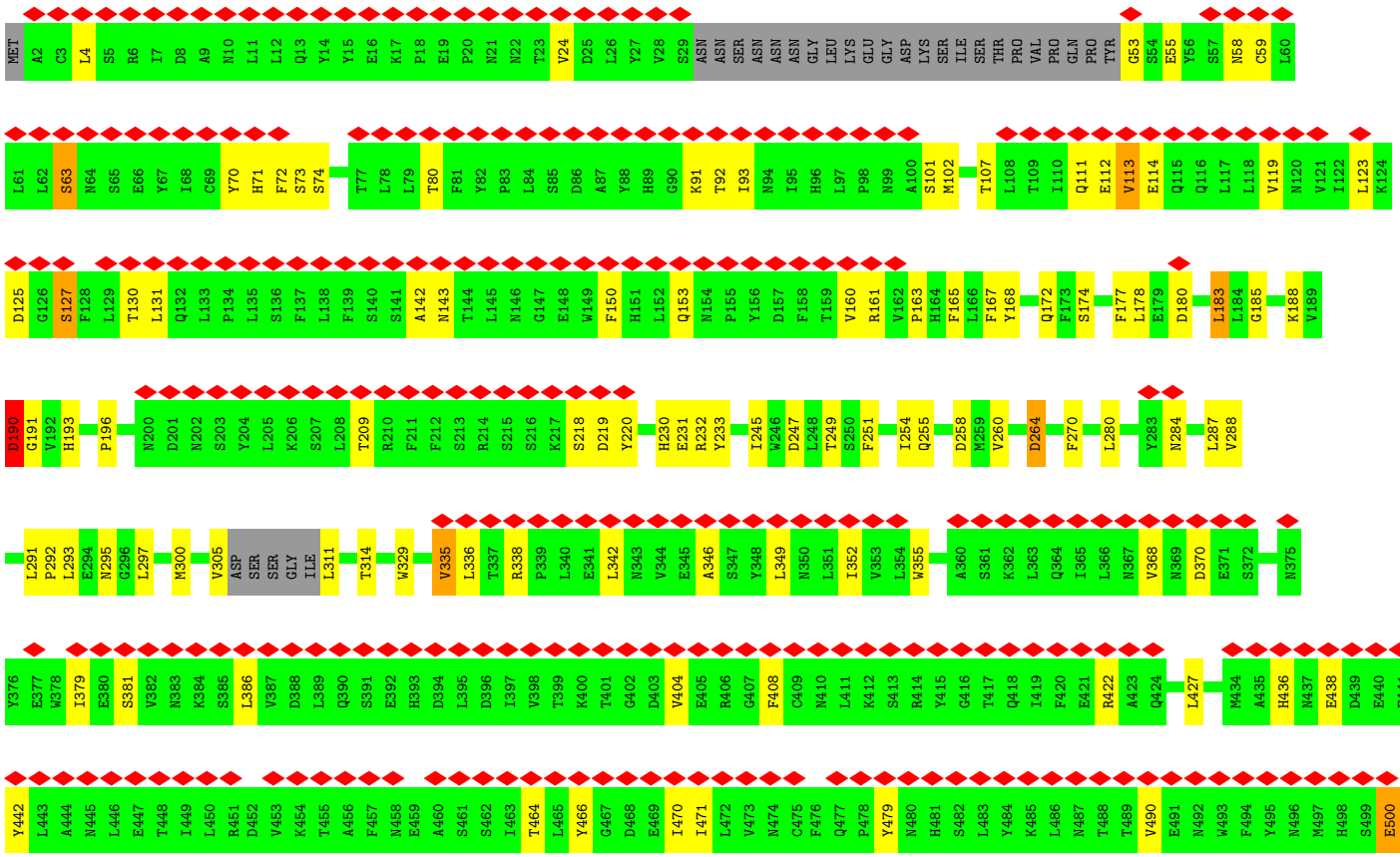
Chain Z3:

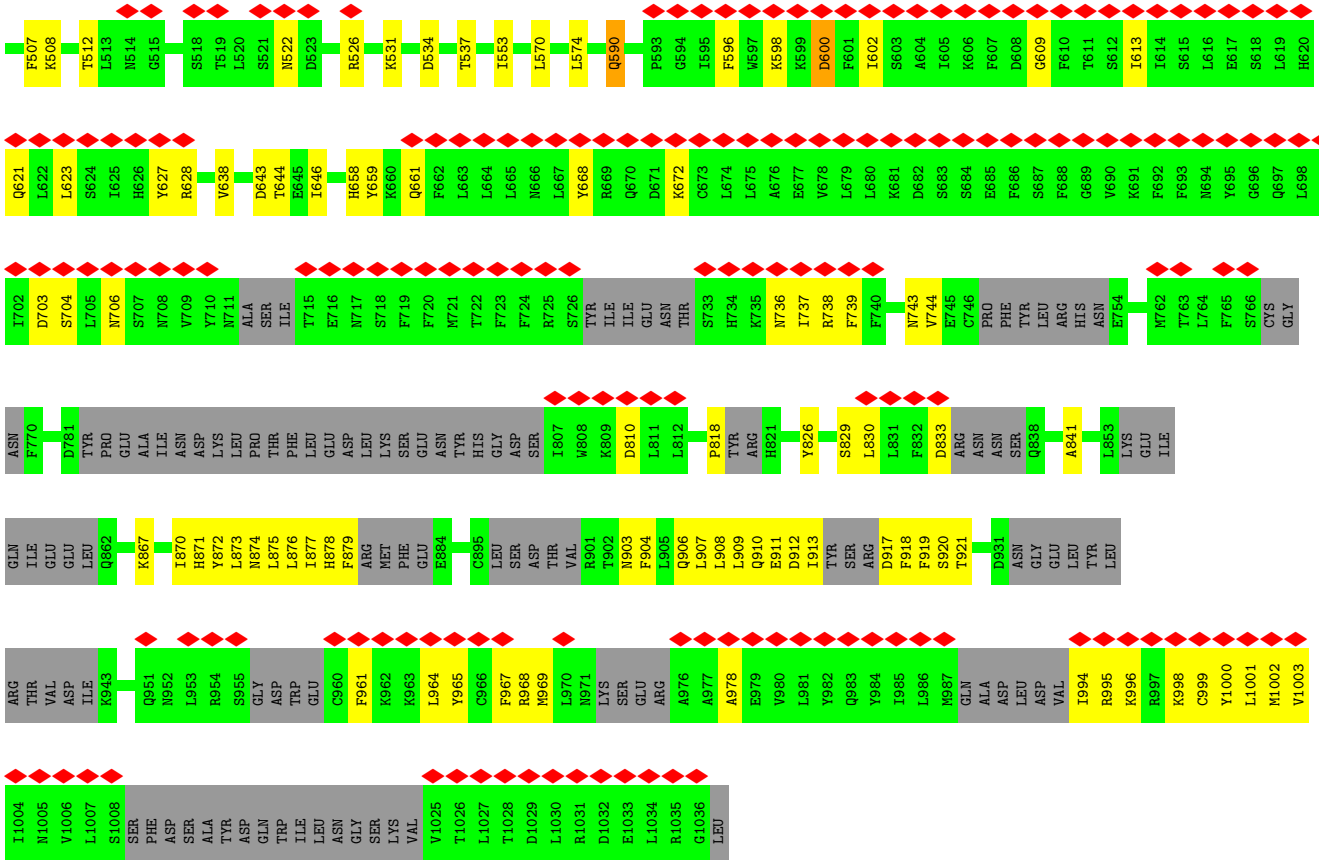




- Molecule 28: NUP160

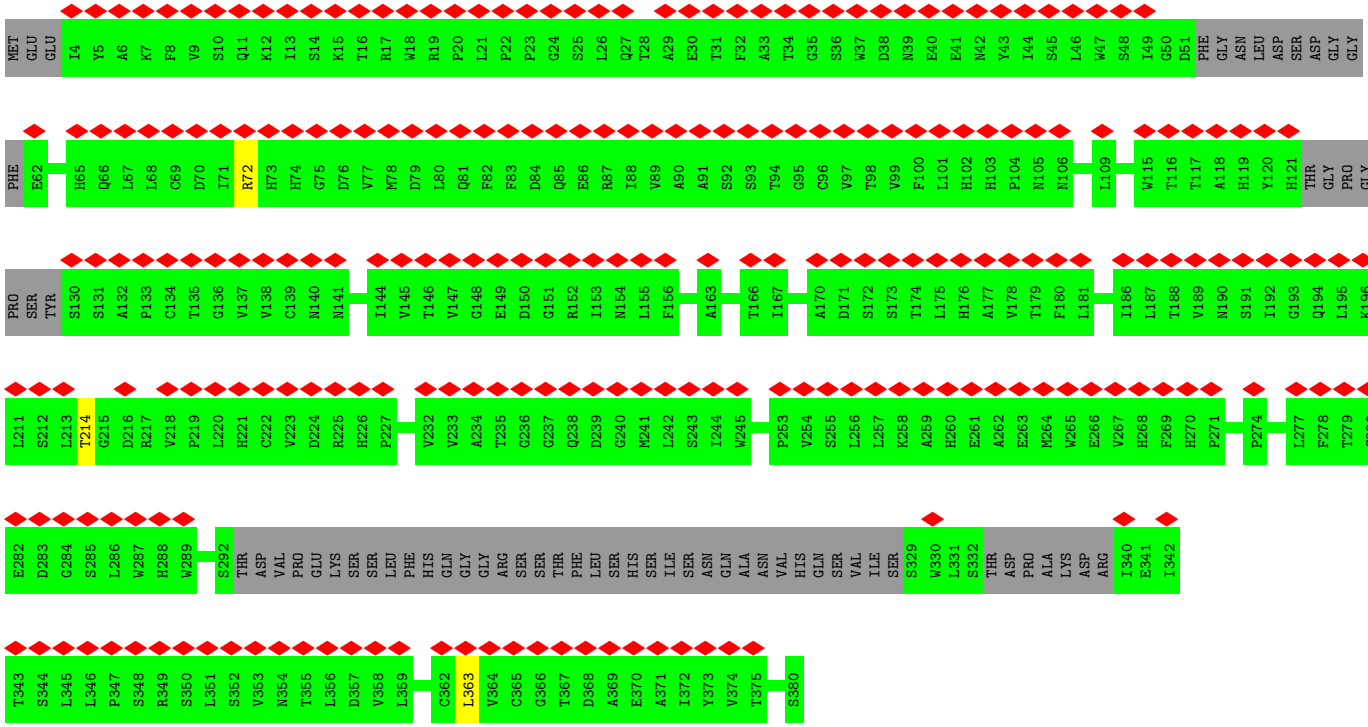
Chain Z4:





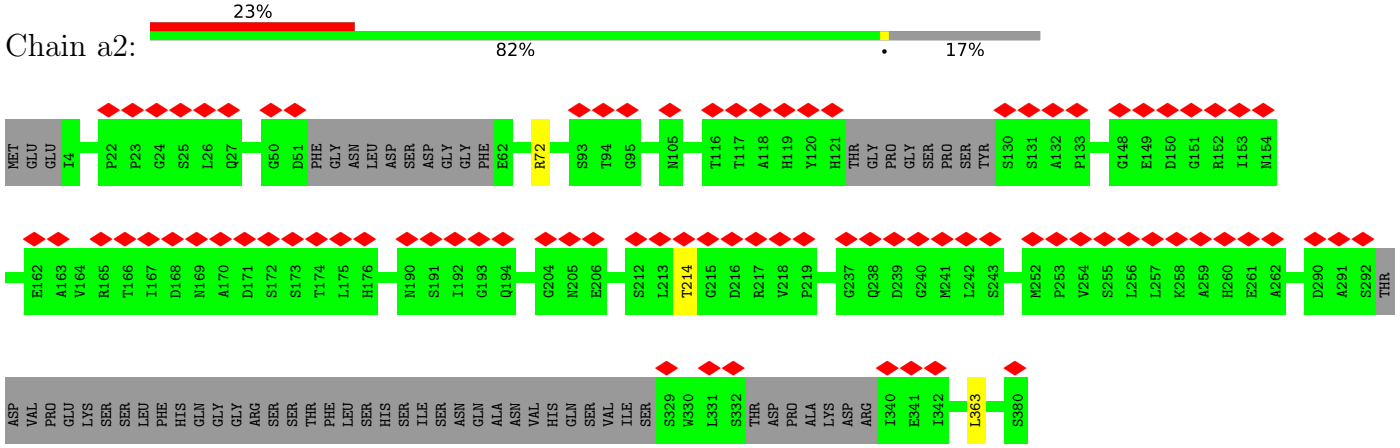
• Molecule 29: NUP43

Chain a1:



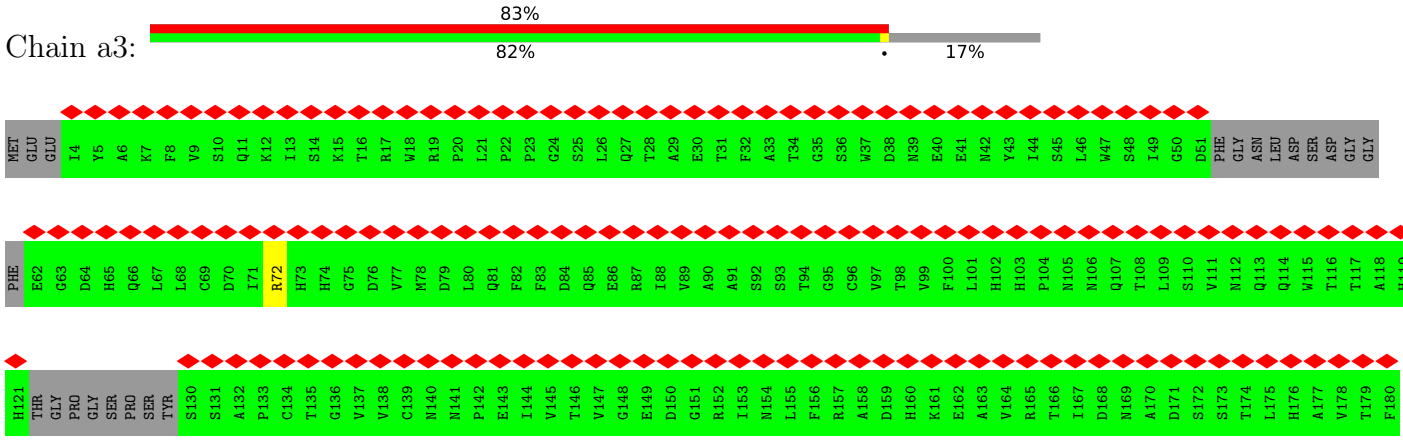
• Molecule 29: NUP43

Chain a2:



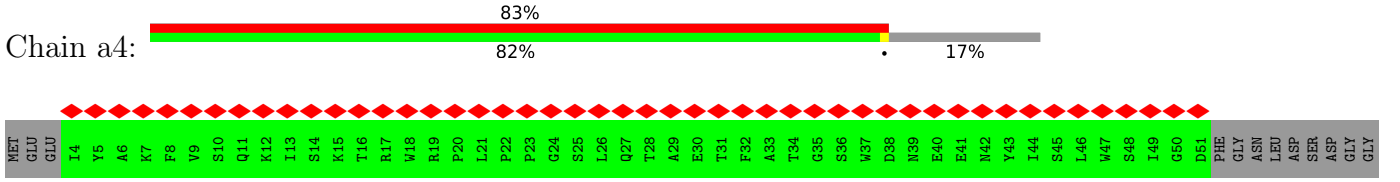
• Molecule 29: NUP43

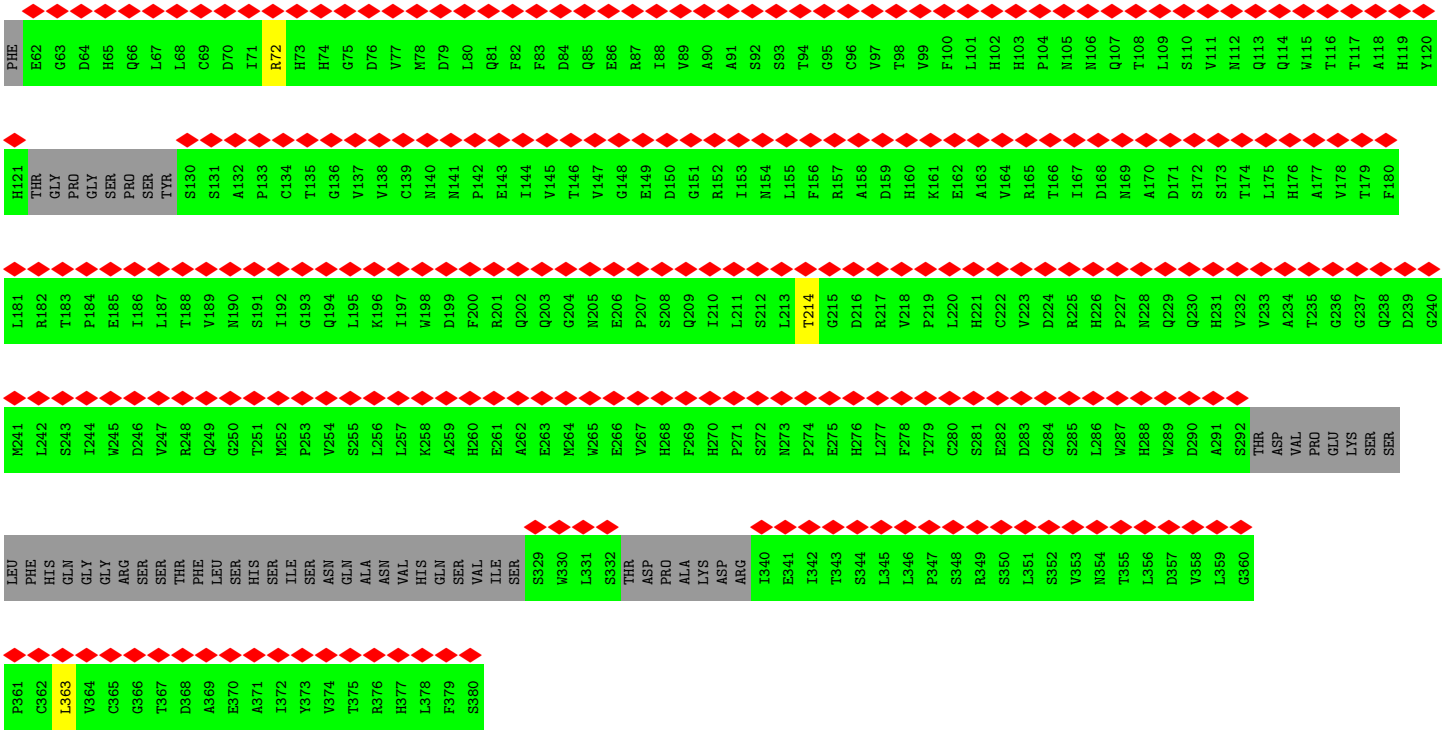
Chain a3:



• Molecule 29: NUP43

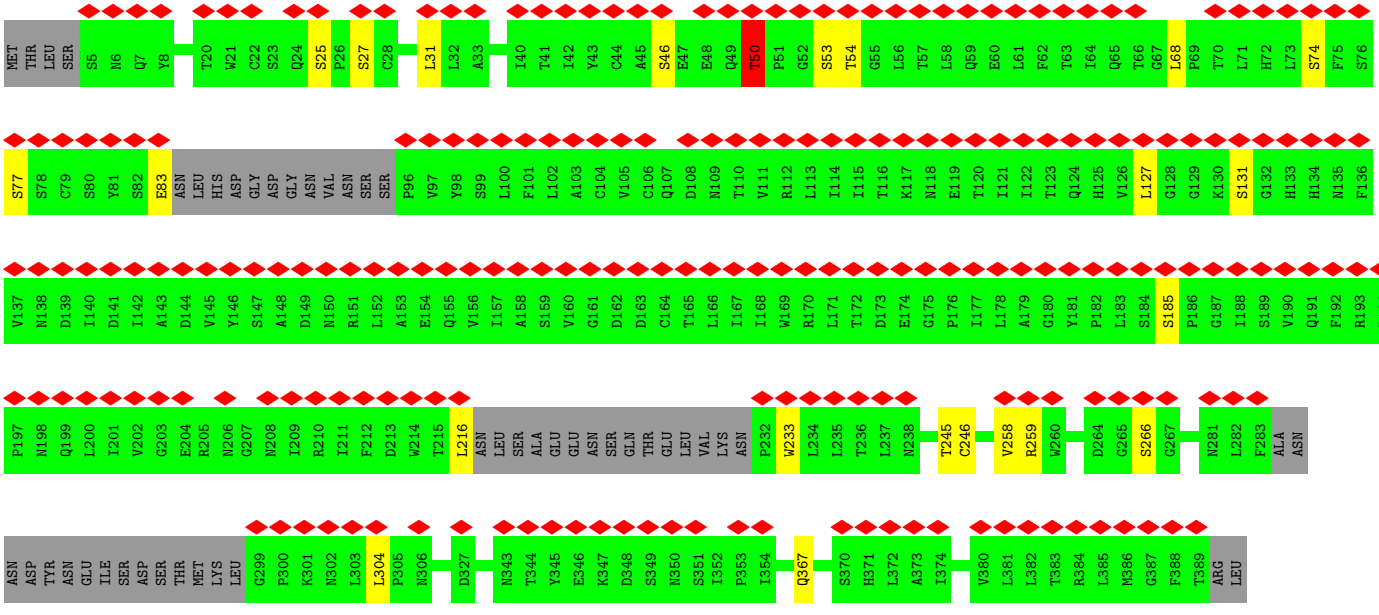
Chain a4:





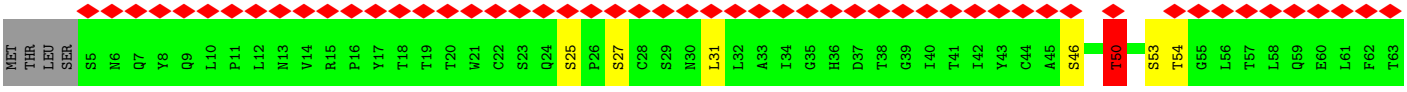
• Molecule 30: NUP37

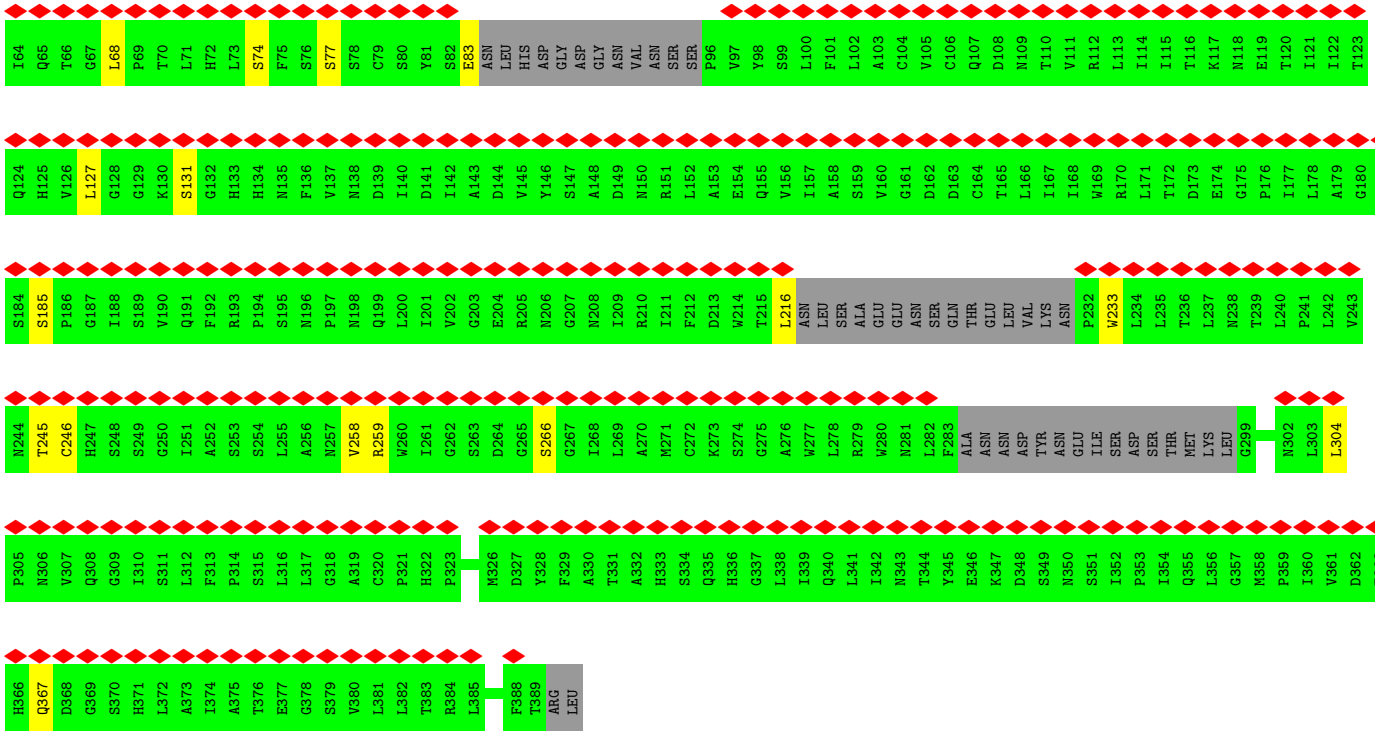
Chain b1:



• Molecule 30: NUP37

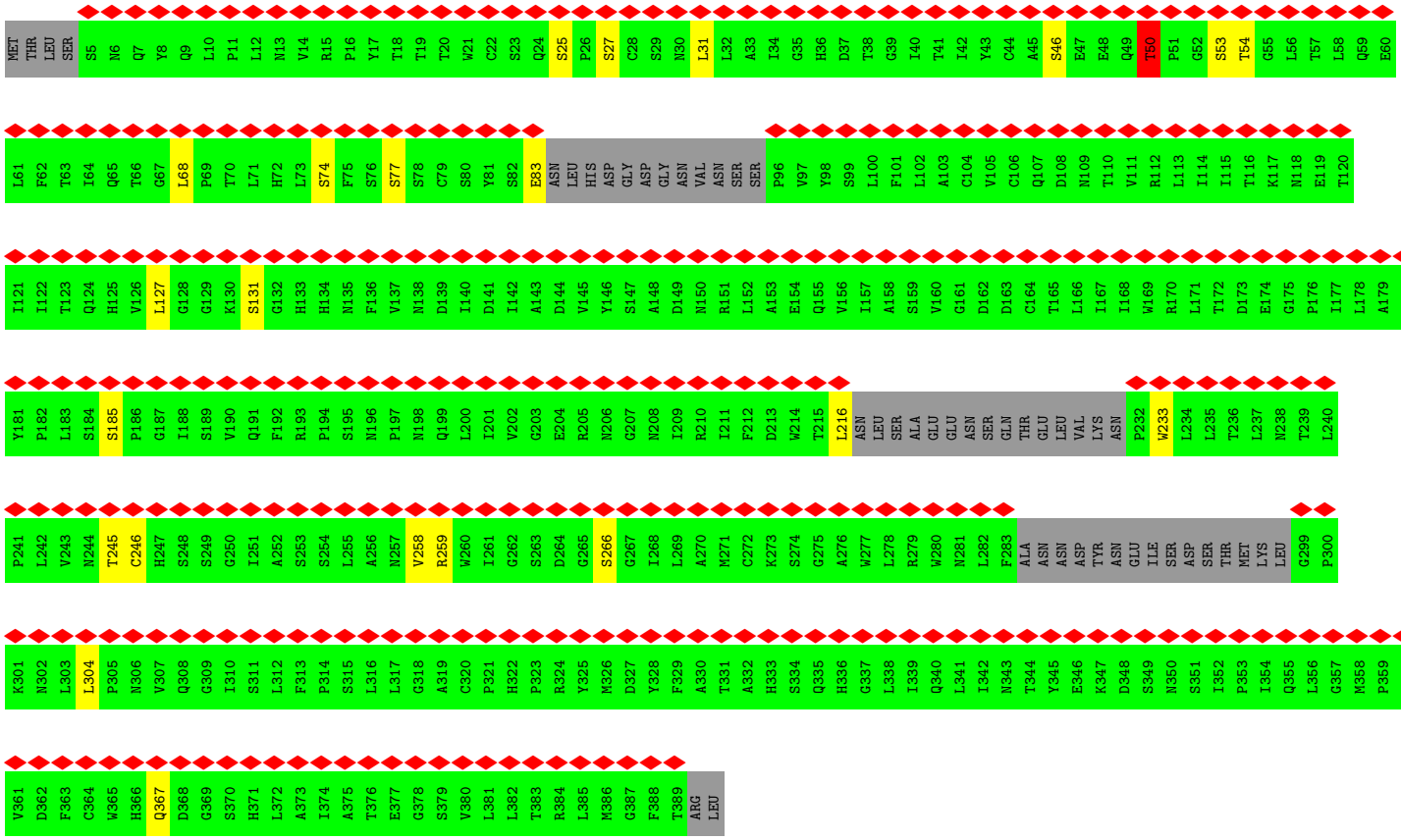
Chain b2:





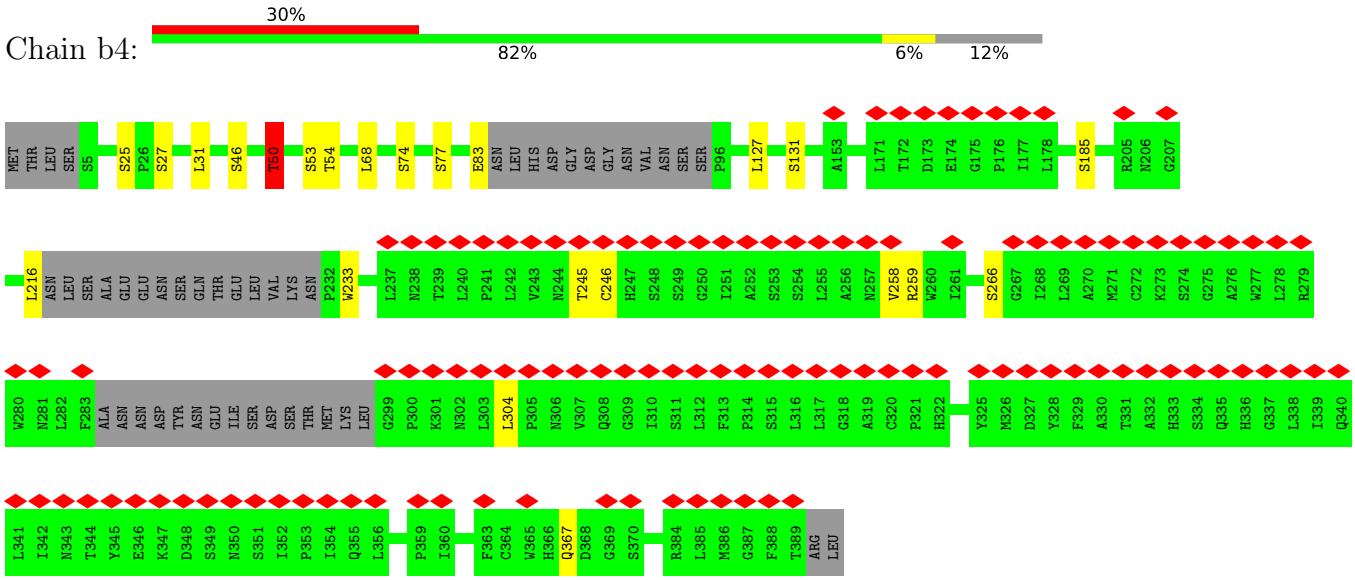
- Molecule 30: NUP37

Chain b3:



• Molecule 30: NUP37

Chain b4:



4 Experimental information (i)

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

5 Model quality (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	0/3472	0.64	2/4714 (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
All	All	0.37	28/365761 (0.0%)	0.52	101/495950 (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

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
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 (101) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
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
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
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
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
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
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
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
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	5030	58	0
6	D6	5034	0	5027	85	0
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	4979	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	1981	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	3404	0	3378	84	0
23	U2	3404	0	3378	81	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	4071	156	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
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	b4	2638	0	2573	0	0
All	All	358888	0	346270	22519	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 36.

All (22519) 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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:549:ALA:CB	3:A6:365:MET:CE	1.77	1.60
3:A6:484:PRO:CG	6:D3:672:GLU:HG2	1.30	1.60
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:799:ASP:OD1	3:A6:250:PHE:CE2	1.75	1.38
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1204:TRP:CE3	2:A2:734:LEU:HD13	1.62	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1260:ALA:CB	3:A6:719:ARG:HD3	1.63	1.22
2:A4:710:LEU:CB	3:A6:480:VAL:HG22	1.65	1.22
2:A4:861:GLN:O	6:D3:607:PRO:CG	1.85	1.22
2:A4:868:GLN:O	6:D3:598:ILE:HB	1.37	1.22
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:868:GLN:HG2	6:D3:608:ILE:HD12	1.16	1.12
2:A4:900:THR:HB	3:A6:137:HIS:CD2	1.82	1.12
2:A4:1055:ARG: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A3:1254:LEU:HA	3:A6:638:GLU:CD	1.84	0.98
1:A3:1254:LEU:CA	3:A6:634:ASP:HB3	1.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I2:962:ILE:HD13	15:M3:596:ILE:CG2	1.95	0.96
11:I3:1280:PRO:HD3	26:X1:523:LEU:CD1	1.96	0.96
11:I4:819:MET:HB2	26:X3:501:LYS:HD3	1.47	0.96
11:I4:1277:LEU:HD23	26:X3:517:ASP:CB	1.95	0.96
18:P1:279:GLY:N	18:P4:322:LYS:CD	2.16	0.96
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:CG2	2.46	0.94
2:A4:642:ARG:CG	3:A6:501:VAL:CG1	2.37	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:OE1	17:O2:258:GLU:O	1.87	0.93
8:F1:1265:GLN:NE2	17:O2:257:ALA:O	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:941:ALA:HA	4:B6:350:GLU:HG3	1.50	0.92
2:A4:970:PHE:CA	6:D3:202:GLN:HG3	1.98	0.92
2:A4:988:ARG:CG	6:D3:500:LYS:CG	2.37	0.92
3:A5:221:SER:HB3	5:C2:738:ASP:OD2	1.67	0.92
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD13	2:A2:859:GLN:N	1.65	0.91
2:A2:827:ILE:CD1	2:A2:859:GLN:N	2.34	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:CD	3:A6:599:ARG:HD2	1.89	0.91
1:A3:1123:GLU:CB	3:A6:599:ARG:CD	2.39	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HG21	5:C2:742:ASP:OD1	1.72	0.89
3:A5:186:ILE:HD12	5:C2:744:PHE:HB2	1.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HH11	22:T3:885:ARG:HG3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HH11	22:T2:885:ARG:HG3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HH11	22:T4:885:ARG:HG3	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:A3:1270:SER:HG	3:A6:553:ASP:CG	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH11	22:T1:885:ARG:HG3	1.39	0.85
2:A2:868:GLN:HB2	6:D1:598:ILE:CD1	2.07	0.84
2:A2:980:ARG:HA	6:D1:503:LEU:H	1.42	0.84
1:A3:1228:TYR:HB3	3:A6:551:GLN:HB3	1.58	0.84
1:A3:1230:TYR:HD2	3:A6:575:LEU:CD1	1.86	0.84
1:A3:1261: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:O1:242:ARG:C	2.55	0.84
11:I1:837:MET:SD	17:O1:243:LEU:N	2.48	0.84
11:I1:880:MET:HB2	17:O1:250:LEU:HB3	0.86	0.84
11:I1:951: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD12	6:D1:301:LEU:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HG12	3:A6:554:GLN:H	1.47	0.78
1:A3:1271:ILE:O	3:A6:550:VAL:HG21	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F1:1262:HIS:CD2	17:O2:259:ASP:CG	2.59	0.76
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CE1	17:O3:279:ILE:HG21	2.22	0.75
11:I2:1045:PHE:HZ	16:N3:431:VAL:O	1.69	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1123:GLU:CB	3:A6:599:ARG:HD3	2.13	0.74
1:A3:1236:GLN:HB3	3:A6:118:SER:HB2	0.81	0.74
2:A4:556:PRO:HD3	3:A6:456:ASP:HA	1.67	0.74
2:A4:721:ARG:HB3	3:A6:572:ARG:NH2	2.01	0.74
2:A4:757:LEU:CG	3:A6:543:GLY:N	2.50	0.74
2:A4:760:LEU:CD1	3:A6:98:LEU:HB2	2.17	0.74
2:A4:854:VAL:H	3:A6:171:HIS:N	1.84	0.74
2:A4:910:TYR:CD1	6:D3:555:ARG:O	2.40	0.74
2:A4:947:LYS:HD2	3:A6:203:ILE:CG1	2.17	0.74
3:A5:1027:HIS:ND1	11:I5:65:LYS:CA	2.49	0.74
3:A5:1053:ARG:NE	11:I5:99:ARG:HG3	2.02	0.74
3:A5:1368:GLN:CG	28:Z2:841:ALA:HA	2.13	0.74
5:C1:732:LYS:HZ1	11:I1:1225:LYS:CD	1.85	0.74
9:G1:254:ASN:ND2	17:O2:261:LYS:CE	2.50	0.74
9:G1:256:GLN:NE2	9:G1:263:MET:SD	2.60	0.74
11:I1:947:LEU:HG	16:N1:408:MET:N	2.01	0.74
11:I1:1043:LEU:HG	20:R1:170:LEU:HD13	1.69	0.74
11:I2:797:LEU:HD22	17:O3:245:GLU:CB	2.17	0.74
11:I2:846:ILE:HG21	17:O3:247:TRP:CZ2	2.22	0.74
11:I2:922: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:I5:767:ASP:OD1	11:I5:771:ASN:ND2	2.20	0.74
24:V1:292:ILE:H	24:V1:292:ILE:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:A3:1270:SER:HG	3:A6:553:ASP:CB	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:823:VAL:HG22	2:A2:856:PHE:CE1	2.24	0.71
2:A2:973:GLU:CB	6:D1:192:TYR:CE2	2.73	0.71
2:A2:1131:ILE:HA	3:A5:160:ILE:HG21	1.72	0.71
2:A2:1160:GLN:HA	3:A5:178:GLY:CA	2.21	0.71
1:A3:1056:PHE:CZ	6:D3:811:LEU:N	2.57	0.71
1:A3:1258: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CD1	3:A6:470:ARG:HG2	2.22	0.70
2:A4:763:LEU:CD2	3:A6:384:ILE:HG12	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HE3	28:Z4:918:PHE:HA	1.73	0.70
3:A6:1398:LYS:HZ1	28:Z4:921:THR:CB	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:728:GLU:OE1	22:T3:773:LYS:O	2.11	0.68
11:I1:935: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:A6:394:LEU:CD2	2.12	0.67
2:A4:803:GLU:OE2	3:A6:381:LEU:HD13	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH22	17:O2:268:GLY:HA2	1.58	0.67
8:F1:1808:VAL:O	8:F1:1833:ARG:NH1	2.28	0.67
11:I1:834:SER:N	17:O1:237:PRO:CB	2.53	0.67
11:I1:834:SER:CA	17:O1:237:PRO:O	2.37	0.67
11:I1:951:LYS:CB	16:N1:400:LEU:O	2.41	0.67
11:I1:955:LYS:HB2	16:N1:400:LEU:CG	2.09	0.67
11:I1:1101:LEU:HD23	16:N1:432:TYR:HE1	1.59	0.67
11:I2:918:SER:OG	16:N3:389:PHE:CD2	2.10	0.67
11:I2:952:LEU:CD1	15:M3:599:ILE:HG12	2.24	0.67
11: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:950:LEU:HD21	16:N1:406:HIS:CD2	2.20	0.65
11:I1:952:LEU:O	16:N1:400:LEU:CD2	2.41	0.65
11:I1:984:GLU:HG3	15:M1:617:THR:CG2	2.26	0.65
11:I1:1670: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:U1:20:LYS:O	23:U1:24:ILE:HG12	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HE2	22:T2:671:LYS:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I2:1227:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HE2	22:T3:671:LYS:HA	1.80	0.62
22:T4:671:LYS:HE2	22:T4:671:LYS:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:894:THR:OG1	3:A6:166:LEU:N	2.33	0.62
2:A4:897:ASN:HB2	3:A6:177:ILE:H	1.64	0.62
2:A4:903:GLU:OE2	3:A6:180:GLU:OE1	2.17	0.62
3:A6:444:ARG:H	6:D3:719:LEU:CD1	2.11	0.62
3:A6:1398:LYS:HD3	28:Z4:921:THR:N	2.11	0.62
8:F1:1202:TYR:CD1	17:O2:252:VAL:CG2	2.82	0.62
8:F2:330:GLU:N	8:F2:330:GLU:OE1	2.32	0.62
11:I1:924:ILE:HD11	15:M1:596:ILE:HG13	1.81	0.62
11:I1:1048:GLU:HB2	17:O1:284:LYS:CA	2.27	0.62
11:I1:1605:LEU:HD22	11:I2:1669:ARG:HD3	1.79	0.62
11:I2:879: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I3:1227:GLU:OE1	2.32	0.62
11:I3:1274:HIS:O	26:X1:534:ILE:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I5:1227:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	11:I4:1227:GLU:OE1	2.33	0.62
21:S3:1032:ILE:CD1	21:S3:1051:ALA:HA	2.29	0.62
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HE2	22:T1:671:LYS:HA	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
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:HG12	6:D6:649:VAL:O	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:N	11:I5:1360:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:898:LEU:N	3:A6:176:LEU:C	2.54	0.61
6:D2:649:VAL:O	6:D2:649:VAL:HG12	2.00	0.61
8:F1:1205:TRP:HB3	17:O2:254:ARG:HG2	1.82	0.61
11:I1:883:ALA:CB	17:O1:246:LEU:CA	2.43	0.61
11:I1:937:TYR:O	17:O1:258:GLU:HA	2.00	0.61
11:I1:948:ALA:H	17:O1:256:TYR:HB3	1.66	0.61
11:I1:958:THR:N	16:N1:399:HIS:CD2	2.67	0.61
11:I1:961:ARG:NH1	16:N1:389:PHE:HA	2.15	0.61
11:I2:926:SER:HA	20:R3:155:GLU:HG2	1.82	0.61
11:I2:948:ALA:HB2	17:O3:256:TYR:HB3	0.65	0.61
11:I2:995:SER:CB	17:O3:267:ALA:O	2.49	0.61
11:I2:1030:ARG:CD	20:R3:175:GLN:OE1	2.36	0.61
11:I3:1271:GLU:O	26:X1:525:ILE:HB	1.99	0.61
11:I4:26:GLU:N	11:I4:26:GLU:OE1	2.33	0.61
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I3:1433:THR:HG21	12:J3:270:ARG:HD3	1.81	0.61
11:I5:26:GLU:N	11:I5:26:GLU:OE1	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.60
1:A1:1202:GLU:O	2:A2:732:GLN:CA	2.38	0.60
1:A3:1086:LYS:CG	6:D3:798:MET:HA	2.30	0.60
1:A3:1162:ASN:O	3:A6:644:ALA:O	2.19	0.60
1:A3:1193:SER:CB	3:A6:610:THR:O	2.49	0.60
1:A3:1228: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
23:U2:13:THR:O	23:U2:17:ASP:N	2.24	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
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:HG12	6:D7:649:VAL:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HA	21:S4:1083:TRP:CE3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	8:F1:230:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:CE3	21:S1:1083:TRP:HA	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
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:N	8:F2:230:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CA	2.65	0.58
1:A3:1285:LEU:CD1	3:A6:581:LYS:CB	2.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D1:711:PHE:C	2.72	0.58
2:A2:227:SER:CB	6:D1:708:ASP:O	2.50	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S2:1083:TRP:CE3	21:S2:1083:TRP:HA	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
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:N	11:I5:465:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O	7:E4:91:VAL:HG22	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
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:HG22	7:E2:91:VAL:O	2.04	0.57
8:F1:158:PRO:HG2	11:I1:1207:PRO:CD	2.21	0.57
8:F1:1091:SER:HB3	17:O2:242:ARG:N	2.20	0.57
8:F2:190:ARG:NH1	8:F2:281:THR:OG1	2.37	0.57
9:G2:256:GLN:HB3	17:O4:262:ASP:N	2.19	0.57
11:I1:952:LEU:HD12	16:N1:400:LEU:CD1	2.35	0.57
11: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1018:ASP:OD2	6:D1:819:ASN:HB3	2.05	0.57
1:A3:1197:ALA:N	3:A6:678:LEU:HD23	2.19	0.57
1:A3:1267:GLN:CB	3:A6:551:GLN:O	2.20	0.57
2:A4:688:TRP:CH2	3:A6:382:SER:CB	2.84	0.57
2:A4:706:PRO:HB2	3:A6:461:ALA:CA	2.26	0.57
2:A4:724:LEU:CD2	3:A6:496:THR:HG23	2.35	0.57
2:A4:779:ASP:OD2	6:D3:680:SER:HB2	2.02	0.57
2:A4:1150:LEU:CD1	5:C4:731:LYS:CG	2.82	0.57
3:A6:518:GLU:O	6:D3:686:ASP:HB2	2.05	0.57
6:D3:201:LEU:O	6:D3:203:PRO:HD3	2.05	0.57
6:D7:598:ILE:HD13	6:D7:608:ILE:CD1	2.34	0.57
11:I1:94:GLU:N	11:I1:94:GLU:OE1	2.38	0.57
11:I1:833:PHE:CZ	17:O1:241:SER:CB	2.45	0.57
11:I1:959:SER:HB2	20:R1:166:LEU:HD21	1.87	0.57
11:I1:1030:ARG:HB2	20:R1:175:GLN:OE1	2.05	0.57
11:I2:955:LYS:CG	16:N3:403:VAL:HG23	2.34	0.57
11: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:HD22	21:S3:1020:LEU:H	1.70	0.57
21:S4:1020:LEU:HD22	21:S4:1020:LEU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	8:F2:540:GLU:OE1	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
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:CA	17:O1:232:LYS:C	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I1:896:PRO:HA	17:O1:232:LYS:C	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD22	21:S2:1020:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:OD1	21:S3:384:ASP:N	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HG22	7:E1:91:VAL:O	2.04	0.56
8:F2:1290:VAL:HG12	8:F2:1290:VAL:O	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:HD22	21:S1:1020:LEU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S1:384:ASP:OD1	21:S1:384:ASP:N	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HG12	8:F1:1290:VAL:O	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I2:1284:GLU:OE1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:I5:747:GLU:N	11:I5:747:GLU:OE1	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I5:717:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I4:465:GLU:OE1	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:CD	21:S3:947:GLU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	8:F2:1807:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I4:77:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	25:W2:275:ASP:OD1	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	25:W1:275:ASP:OD1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CD	21:S2:947:GLU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CD	21:S1:947:GLU:H	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:H	23:U4:431:ILE:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:H	23:U3:431:ILE:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CG1	22:T3:891:VAL:O	2.58	0.52
22:T4:760:PHE:HD1	22:T4:864:ILE:HD11	1.74	0.52
23:U1:157:ASP:HB3	24:V1:355:ILE:HG21	1.92	0.52
23:U2:431:ILE:H	23:U2:431:ILE:HD12	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CG1	22:T2:891:VAL:O	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:HG3	3:A6:454:GLN:CB	2.40	0.51
2:A4:556:PRO:HB3	3:A6:454:GLN:HB3	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:537:ALA:N	3:A6:362:PHE:CE2	2.59	0.51
2:A4:724:LEU:CD2	3:A6:496:THR:N	2.65	0.51
2:A4:772:SER:O	3:A6:489:LEU:HD21	2.09	0.51
2:A4:1204:TRP:CZ2	2:A4:1223:GLU:HG3	2.46	0.51
3:A5:232:LEU:CB	5:C2:736:ASN:O	2.58	0.51
3:A5:1151:THR:CB	5:C5:733:LEU:HD12	2.41	0.51
3:A5:1375:THR:HG23	28:Z2:824:PHE:CB	2.39	0.51
3:A6:1370:ALA:CB	28:Z4:874:ASN:CB	2.88	0.51
6:D6:610:ASN:O	6:D6:614:SER:N	2.43	0.51
6:D7:531:LEU:N	11:I3:181:GLN:HG2	1.85	0.51
6:D7:649:VAL:HG11	6:D7:660:LYS:HA	1.92	0.51
8:F1:795:GLU:OE1	8:F1:795:GLU:N	2.42	0.51
11:I1:885:GLU:O	16:N1:397:GLU:OE1	2.28	0.51
11:I1:896:PRO:CA	17:O1:232:LYS:HB3	2.41	0.51
11:I1:920:PHE:CG	17:O1:243:LEU:HD22	2.46	0.51
11:I1:945:LEU:HB3	17:O1:259:ASP:CB	2.40	0.51
11:I1:956:ILE:CB	20:R1:166:LEU:HD22	2.38	0.51
11:I1:962:ILE:HG23	20:R1:166:LEU:O	2.10	0.51
11: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:CG1	22:T1:891:VAL:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I1:301:GLN:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CD1	2.43	0.49
17:O4:111:TYR:HA	18:P4:325:ILE:HD12	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
26:X2:306:TRP:O	26:X2:310:VAL:HG23	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	11:I2:301:GLN:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	11:I5:389:GLN:OE1	2.45	0.48
11:I5:702:GLN:OE1	11:I5:702:GLN:N	2.41	0.48
11:I5:1112:SER:HB3	12:J5:241:THR:CB	2.43	0.48
21:S4:418: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HG12	21:S4:992:ILE:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HG12	21:S3:992:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD23	11:I3:300:LEU:O	2.14	0.48
11:I4:52:ASP:OD1	11:I4:53:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H	24:V2:173:ILE:HD12	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	11:I4:300:LEU:O	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H	24:V3:173:ILE:HD12	1.78	0.48
24:V3:431:ASN:HB2	24:V3:434:LYS:HB3	1.96	0.48
25:W3:181:LEU:HD23	25:W3:201:GLU:HG2	1.95	0.48
26:X2:228:PHE:HE2	26:X2:267:ARG:HB3	1.77	0.48
26: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H	24:V4:173:ILE:HD12	1.78	0.48
25:W4:38:VAL:O	25:W4:39:GLU:HG3	2.14	0.48
26:X1:223:TYR:HA	26:X1:226:GLN:HB2	1.96	0.48
26:X2:223:TYR:HA	26:X2:226:GLN:HB2	1.96	0.48
26: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:X3:392:GLN:HB3	26:X3:393:PRO:HD3	1.96	0.47
27: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
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:H	24:V1:173:ILE:HD12	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
22:T2:911:LEU:HD23	22:T2:914:GLN:NE2	2.30	0.47
23:U2:431:ILE:H	23:U2:431:ILE:CD1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	11:I2:300:LEU:O	2.14	0.47
11:I2:840:LEU:HD13	17:O3:247:TRP:CD1	2.45	0.47
11:I2:884:LEU:CD1	16:N3:400:LEU:HG	2.43	0.47
11:I2:884:LEU:O	16:N3:397:GLU:CA	2.63	0.47
11:I2:945: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H	23:U1:431:ILE:CD1	2.28	0.46
23:U2:284:SER:O	23:U2:288:ILE:HG12	2.16	0.46
23:U2:431:ILE:HD12	23:U2:431:ILE:N	2.30	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HB2	21:S3:948:LYS:HE3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:SD	6:D3:482:MET:N	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:SD	6:D7:482:MET:N	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:S4:1052:LEU:HA	21:S4:1055:LEU:HD23	1.98	0.45
22:T3:685:ARG:NH2	22:T3:716:PRO:HG2	2.32	0.45
22:T3:891:VAL:O	22:T3:891:VAL:HG12	2.17	0.45
22:T4:822:LEU:HD22	22:T4:886:HIS:CE1	2.52	0.45
23:U2:207: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D1:482:MET:SD	6:D1:482:MET:N	2.90	0.44
6:D2:482:MET:SD	6:D2:482:MET:N	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:C	6:D7:445:LEU:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O	7:E4:94:ILE:HG23	2.19	0.43
11:I1:480:ASP:OD1	11:I1:481:ALA:N	2.52	0.43
11:I1:840:LEU:HB2	17:O1:243:LEU:CB	2.22	0.43
11:I1:1066: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O	7:E5:94:ILE:HG23	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:U1:23:LYS:HD2	23:U1:434:THR:HG21	2.01	0.42
23:U1:390:THR:O	23:U1:394:ILE:HG12	2.19	0.42
23:U1:433:ALA:O	23:U1:435:PHE:N	2.44	0.42
23: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HB3	21:S3:968:LYS:HE2	1.65	0.42
21:S4:348:ASN:HB2	21:S4:412:PHE:O	2.20	0.42
22:T1:781:THR:HG23	22:T1:783:THR:N	2.33	0.42
23:U2:359:ILE:HD13	23:U2:389:VAL:HG13	2.02	0.42
24:V2:176:LEU:HA	24:V2:177:PRO:HD2	1.87	0.42
24:V3:153:LYS:HA	25:W3:261:SER:HB2	2.01	0.42
24:V3:208:TYR:CE2	24:V3:505:GLU:HG3	2.54	0.42
24:V4:416:ASP:HA	24:V4:443:THR:CG2	2.44	0.42
24:V4:418:PRO:HB3	24:V4:445:ALA:HB1	2.02	0.42
25:W3:60:ASP:H	25:W3:70:LEU:CD1	2.33	0.42
26:X1:215:SER:HB2	26:X1:390:TRP:CH2	2.54	0.42
26:X2:159:ILE:HD13	26:X2:176:GLU:HA	2.02	0.42
26: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N3:400:LEU:CG	2.97	0.42
11:I2:955:LYS:CB	16:N3:403:VAL:CG2	2.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:T3:829:MET:HE2	22:T3:849:LEU:HD12	2.02	0.42
23:U1:22:PHE:CG	23:U1:38:ILE:HD11	2.54	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HA	19:Q3:192:GLN:HE21	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
22:T2:810:THR:OG1	22:T2:868:THR:HG21	2.19	0.41
22:T3:712:PHE:HZ	22:T3:751:ARG:HD3	1.84	0.41
23:U2:22:PHE:CG	23:U2:38:ILE:HD11	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C	21:S4:1013:LEU:HD12	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD22	21:S1:1055:LEU:N	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:OE2	21:S4:997:GLU:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:X2:291:LEU:HD13	26:X2:310:VAL:HG22	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:U2:13:THR:O	23:U2:17:ASP:HB2	2.21	0.41
23:U2:104:LEU:HG	23:U2:224:ASP:HB3	2.03	0.41
23:U2:433:ALA:O	23:U2:435:PHE:N	2.44	0.41
24:V2:440:ARG:HB3	25:W2:285:LEU:HD22	2.02	0.41
25:W1:225:VAL:CG2	25:W1:271:LEU:HD22	2.51	0.41
25:W2:14:ASP:OD1	25:W2:15:ALA:N	2.54	0.41
25:W3:181:LEU:HD22	25:W3:199:THR:CG2	2.51	0.41
25:W3:225:VAL:CG2	25:W3:271:LEU:HD22	2.51	0.41
25:W4:233:ILE:HD11	25:W4:248:LEU:HD13	2.03	0.41
26:X1:511:TYR:HA	26:X1:512:PRO:HD3	1.73	0.41
26:X2:141: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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 (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A1	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100	100
1	A3	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100	100
2	A2	1255/1328 (94%)	1183 (94%)	54 (4%)	18 (1%)	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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	A6	1258/1330 (95%)	1224 (97%)	34 (3%)	0	100	100
4	B1	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B2	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B3	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B4	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B5	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
4	B6	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
5	C1	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C2	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C3	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C4	17/19 (90%)	12 (71%)	5 (29%)	0	100	100
5	C5	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
5	C6	15/19 (79%)	11 (73%)	4 (27%)	0	100	100
6	D1	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D2	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D3	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D4	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D5	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D6	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
6	D7	615/644 (96%)	604 (98%)	11 (2%)	0	100	100
7	E1	6/8 (75%)	6 (100%)	0	0	100	100
7	E2	6/8 (75%)	6 (100%)	0	0	100	100
7	E3	6/8 (75%)	6 (100%)	0	0	100	100
7	E4	6/8 (75%)	6 (100%)	0	0	100	100
7	E5	6/8 (75%)	6 (100%)	0	0	100	100
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	H1	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
10	H2	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
11	I1	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I2	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I3	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I4	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
11	I5	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
12	J1	61/63 (97%)	61 (100%)	0	0	100	100
12	J2	61/63 (97%)	61 (100%)	0	0	100	100
12	J3	61/63 (97%)	61 (100%)	0	0	100	100
12	J4	61/63 (97%)	61 (100%)	0	0	100	100
12	J5	61/63 (97%)	61 (100%)	0	0	100	100
13	K1	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K2	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K3	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K4	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	K5	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
15	M1	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M2	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M3	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
15	M4	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
16	N1	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N2	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N3	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
16	N4	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	5	31
23	U2	413/436 (95%)	368 (89%)	34 (8%)	11 (3%)	5	31
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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	335/391 (86%)	315 (94%)	19 (6%)	1 (0%)	41	77
30	b2	335/391 (86%)	315 (94%)	19 (6%)	1 (0%)	41	77
30	b3	335/391 (86%)	315 (94%)	19 (6%)	1 (0%)	41	77
30	b4	335/391 (86%)	315 (94%)	19 (6%)	1 (0%)	41	77
All	All	45287/51678 (88%)	42910 (95%)	2058 (4%)	319 (1%)	26	63

All (319) 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

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Mol	Chain	Res	Type
21	S1	623	ARG
21	S1	627	PHE
21	S1	679	ILE
21	S1	680	PRO
21	S1	685	PRO
21	S1	867	CYS
21	S1	869	PHE
21	S1	933	GLU
21	S2	619	GLY
21	S2	623	ARG
21	S2	627	PHE
21	S2	679	ILE
21	S2	680	PRO
21	S2	685	PRO
21	S2	867	CYS
21	S2	869	PHE
21	S2	933	GLU
21	S3	619	GLY
21	S3	623	ARG
21	S3	627	PHE
21	S3	679	ILE
21	S3	680	PRO
21	S3	685	PRO
21	S3	867	CYS
21	S3	869	PHE
21	S3	933	GLU
21	S4	619	GLY
21	S4	623	ARG
21	S4	627	PHE
21	S4	680	PRO
21	S4	685	PRO
21	S4	867	CYS
21	S4	869	PHE
21	S4	933	GLU
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

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Mol	Chain	Res	Type
23	U3	9	THR
23	U3	11	ARG
23	U3	138	ASN
23	U3	165	ASN
23	U4	9	THR
23	U4	11	ARG
23	U4	138	ASN
23	U4	165	ASN
24	V1	158	SER
24	V1	368	GLU
24	V1	371	PHE
24	V1	394	GLN
24	V2	158	SER
24	V2	368	GLU
24	V2	371	PHE
24	V2	394	GLN
24	V3	158	SER
24	V3	368	GLU
24	V3	371	PHE
24	V3	394	GLN
24	V4	158	SER
24	V4	368	GLU
24	V4	371	PHE
24	V4	394	GLN
26	X1	272	PRO
26	X1	403	HIS
26	X1	455	PHE
26	X2	272	PRO
26	X2	403	HIS
26	X2	455	PHE
26	X3	272	PRO
26	X3	403	HIS
26	X3	455	PHE
26	X4	272	PRO
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

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Mol	Chain	Res	Type
2	A2	1244	LEU
2	A2	1350	VAL
2	A4	697	SER
2	A4	1038	THR
2	A4	1244	LEU
2	A4	1350	VAL
21	S1	629	VAL
21	S1	1003	LEU
21	S2	629	VAL
21	S2	1003	LEU
21	S3	629	VAL
21	S3	1003	LEU
21	S4	629	VAL
21	S4	679	ILE
21	S4	1003	LEU
23	U1	8	GLN
23	U1	55	ASN
23	U1	141	THR
23	U1	354	SER
23	U2	8	GLN
23	U2	55	ASN
23	U2	141	THR
23	U2	354	SER
23	U3	8	GLN
23	U3	55	ASN
23	U3	141	THR
23	U3	354	SER
23	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

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Mol	Chain	Res	Type
24	V3	527	ILE
24	V4	180	LEU
24	V4	348	GLY
24	V4	429	ASN
24	V4	527	ILE
25	W1	218	LEU
25	W2	218	LEU
25	W3	218	LEU
25	W4	218	LEU
26	X1	62	GLY
26	X1	239	VAL
26	X2	62	GLY
26	X2	239	VAL
26	X3	62	GLY
26	X3	239	VAL
26	X4	62	GLY
26	X4	239	VAL
27	Y1	162	ALA
27	Y1	302	ASP
27	Y2	162	ALA
27	Y2	302	ASP
27	Y3	162	ALA
27	Y3	302	ASP
27	Y4	162	ALA
27	Y4	302	ASP
28	Z1	113	VAL
28	Z1	598	LYS
28	Z1	602	ILE
28	Z2	113	VAL
28	Z2	598	LYS
28	Z2	602	ILE
28	Z3	113	VAL
28	Z3	598	LYS
28	Z3	602	ILE
28	Z4	113	VAL
28	Z4	598	LYS
28	Z4	602	ILE
30	b1	50	THR
30	b2	50	THR
30	b3	50	THR
30	b4	50	THR
2	A2	520	GLU

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Mol	Chain	Res	Type
2	A2	790	ASP
2	A2	1339	ALA
2	A4	520	GLU
2	A4	790	ASP
2	A4	1339	ALA
21	S1	101	VAL
21	S1	628	PRO
21	S1	828	ASN
21	S2	101	VAL
21	S2	628	PRO
21	S2	828	ASN
21	S3	101	VAL
21	S3	628	PRO
21	S3	828	ASN
21	S4	101	VAL
21	S4	628	PRO
21	S4	828	ASN
23	U1	434	THR
23	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
2	A2	226	PRO
2	A2	292	HIS
2	A2	699	SER
2	A2	1220	PRO
2	A2	1347	SER
2	A4	226	PRO

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
26	X1	200	ASN
26	X1	364	TYR
26	X2	53	VAL
26	X2	200	ASN
26	X2	364	TYR
26	X3	53	VAL
26	X3	200	ASN
26	X3	364	TYR
26	X4	53	VAL
26	X4	200	ASN
26	X4	364	TYR
28	Z1	190	ASP
28	Z1	600	ASP
28	Z2	600	ASP
28	Z3	190	ASP
28	Z3	600	ASP
28	Z4	190	ASP
28	Z4	600	ASP
25	W1	247	LEU
25	W3	247	LEU
27	Y1	188	LEU
27	Y2	188	LEU
27	Y3	188	LEU
27	Y4	188	LEU
28	Z1	231	GLU
28	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

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Mol	Chain	Res	Type
25	W3	202	GLY
25	W4	202	GLY
26	X1	191	ILE
26	X2	191	ILE
26	X3	191	ILE
26	X4	191	ILE
25	W1	97	VAL
25	W2	97	VAL
25	W3	97	VAL
25	W4	97	VAL
21	S1	573	PRO
21	S2	573	PRO
21	S3	573	PRO
21	S4	573	PRO

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A1	1061/1111 (96%)	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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	J2	54/54 (100%)	54 (100%)	0	100	100
12	J3	54/54 (100%)	54 (100%)	0	100	100
12	J4	54/54 (100%)	54 (100%)	0	100	100
12	J5	54/54 (100%)	54 (100%)	0	100	100
13	K1	9/9 (100%)	9 (100%)	0	100	100
13	K2	9/9 (100%)	9 (100%)	0	100	100
13	K3	9/9 (100%)	9 (100%)	0	100	100
13	K4	9/9 (100%)	9 (100%)	0	100	100
13	K5	9/9 (100%)	9 (100%)	0	100	100
14	L1	1/1 (100%)	1 (100%)	0	100	100
14	L2	1/1 (100%)	1 (100%)	0	100	100
14	L3	1/1 (100%)	1 (100%)	0	100	100
14	L4	1/1 (100%)	1 (100%)	0	100	100
14	L5	1/1 (100%)	1 (100%)	0	100	100
15	M1	146/154 (95%)	146 (100%)	0	100	100
15	M2	146/154 (95%)	146 (100%)	0	100	100
15	M3	146/154 (95%)	146 (100%)	0	100	100
15	M4	146/154 (95%)	146 (100%)	0	100	100
16	N1	150/173 (87%)	150 (100%)	0	100	100
16	N2	150/173 (87%)	150 (100%)	0	100	100
16	N3	150/173 (87%)	150 (100%)	0	100	100
16	N4	150/173 (87%)	150 (100%)	0	100	100
17	O1	213/213 (100%)	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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
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
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	387/402 (96%)	367 (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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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	299/343 (87%)	278 (93%)	21 (7%)	15	40
30	b2	299/343 (87%)	278 (93%)	21 (7%)	15	40
30	b3	299/343 (87%)	278 (93%)	21 (7%)	15	40
30	b4	299/343 (87%)	278 (93%)	21 (7%)	15	40
All	All	37655/45033 (84%)	36793 (98%)	862 (2%)	53	70

All (862) 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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
24	V3	531	LEU
24	V3	539	PHE
24	V3	547	ARG
24	V4	160	LEU
24	V4	175	ARG
24	V4	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
30	b4	245	THR
30	b4	246	CYS
30	b4	258	VAL
30	b4	259	ARG
30	b4	266	SER
30	b4	304	LEU
30	b4	367	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (231) 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
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

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Mol	Chain	Res	Type
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
6	D5	200	HIS
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
23	U2	97	HIS
23	U3	97	HIS
23	U3	274	GLN
23	U4	97	HIS
23	U4	278	GLN
24	V1	210	GLN
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

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Mol	Chain	Res	Type
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	X2	467	ASN
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

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Mol	Chain	Res	Type
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
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

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (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)

There are no chain breaks in this entry.

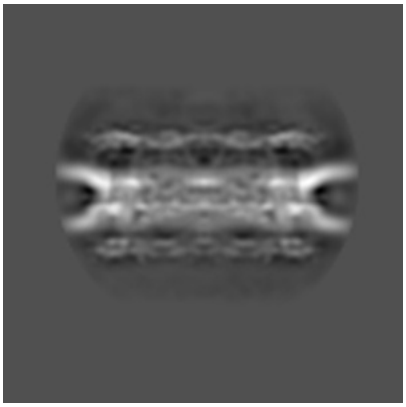
6 Map visualisation

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

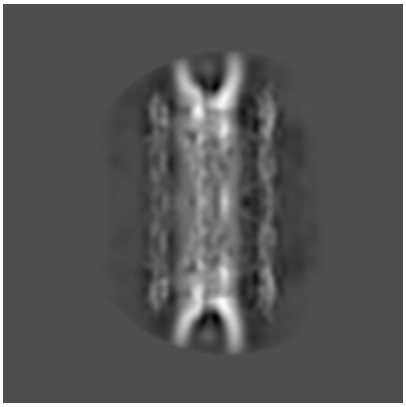
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

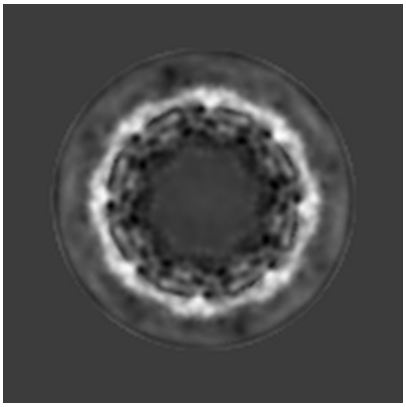
6.1.1 Primary map



X



Y



Z

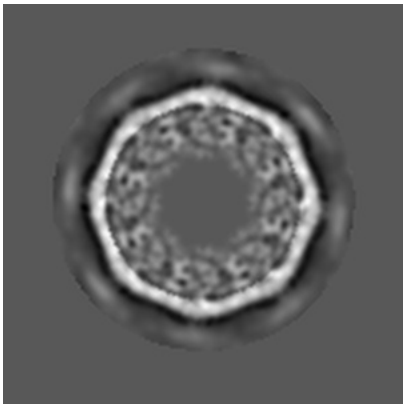
The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map

X Index: 72

Y Index: 72

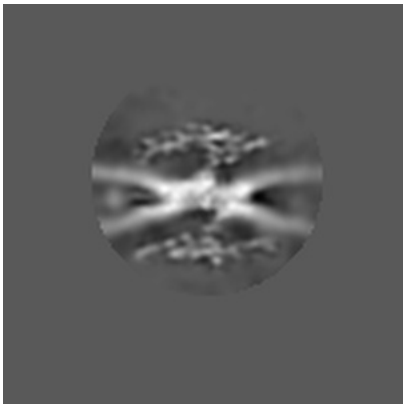


Z Index: 72

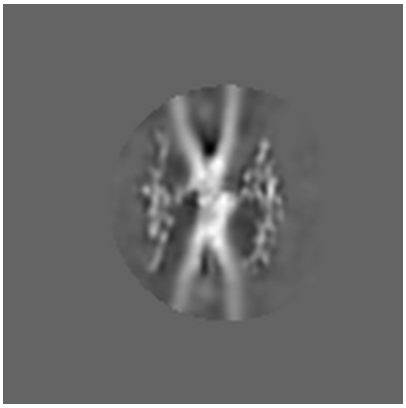
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

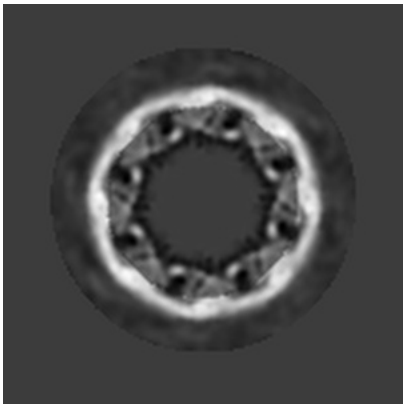
6.3.1 Primary map



X Index: 36



Y Index: 108



Z Index: 78

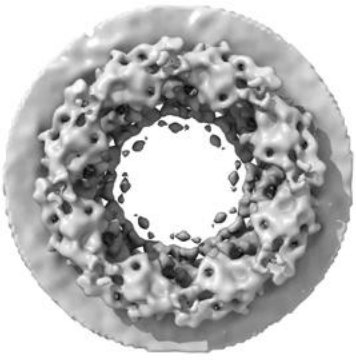
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal 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.

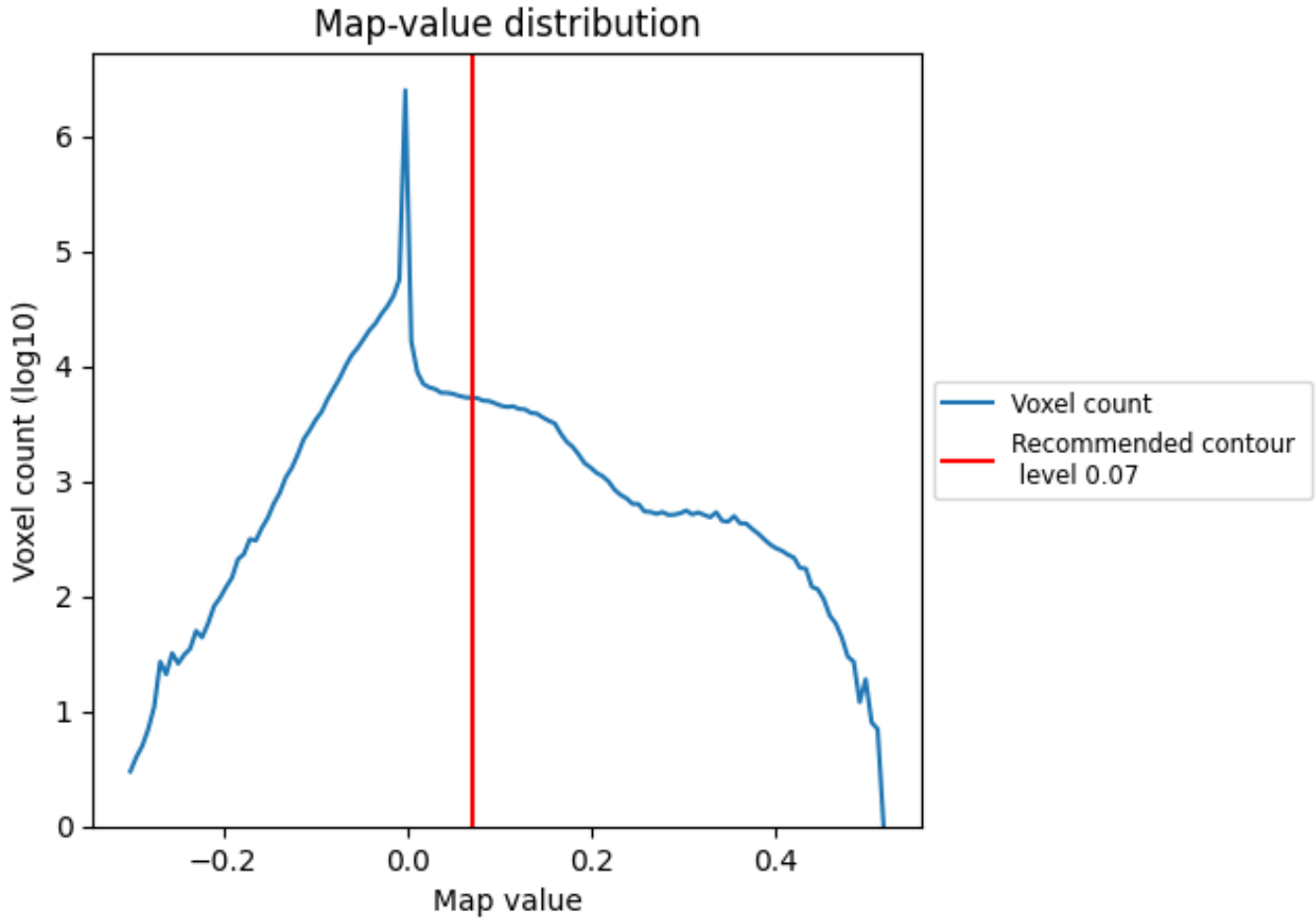
6.5 Mask visualisation (i)

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

7 Map analysis

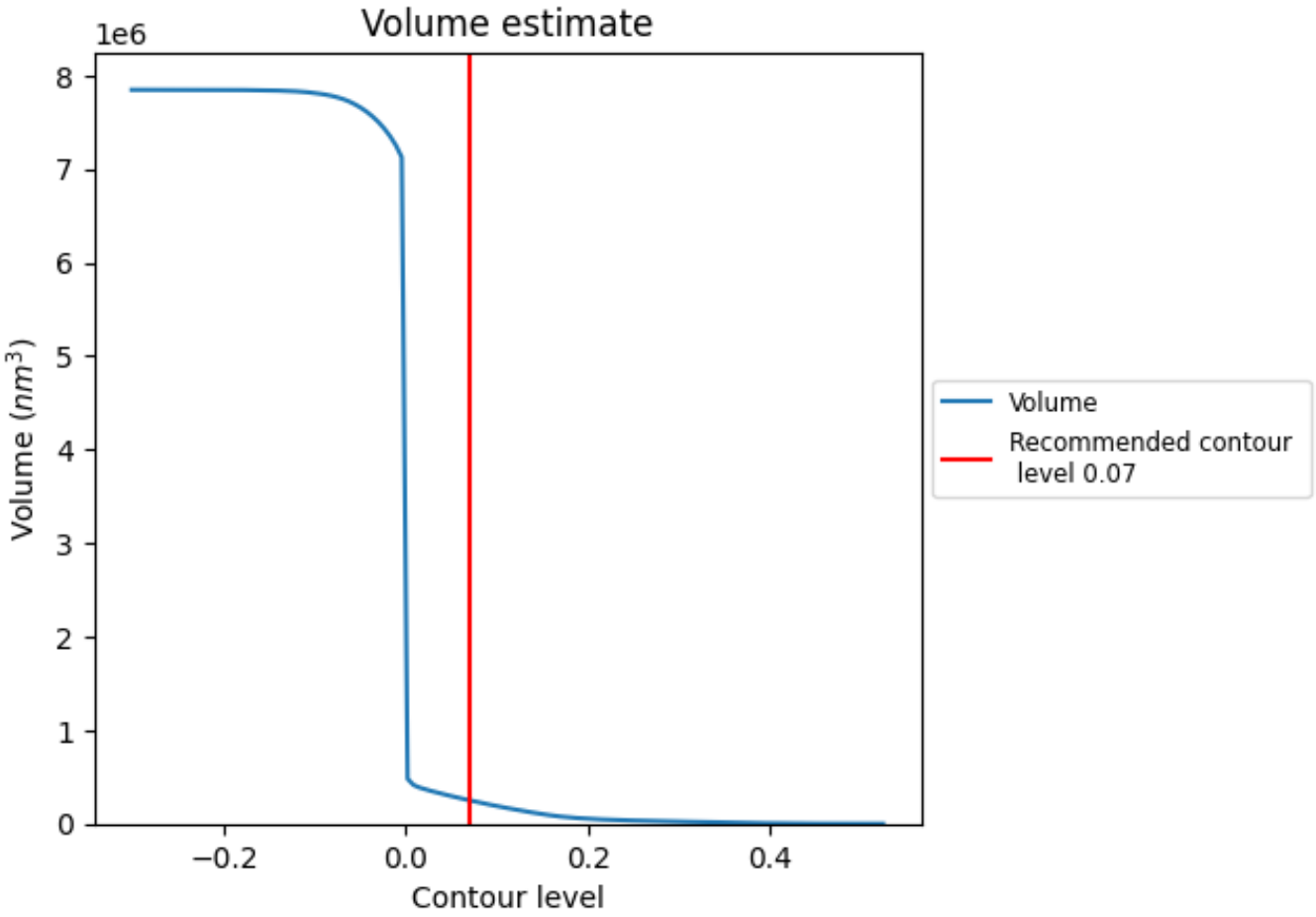
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

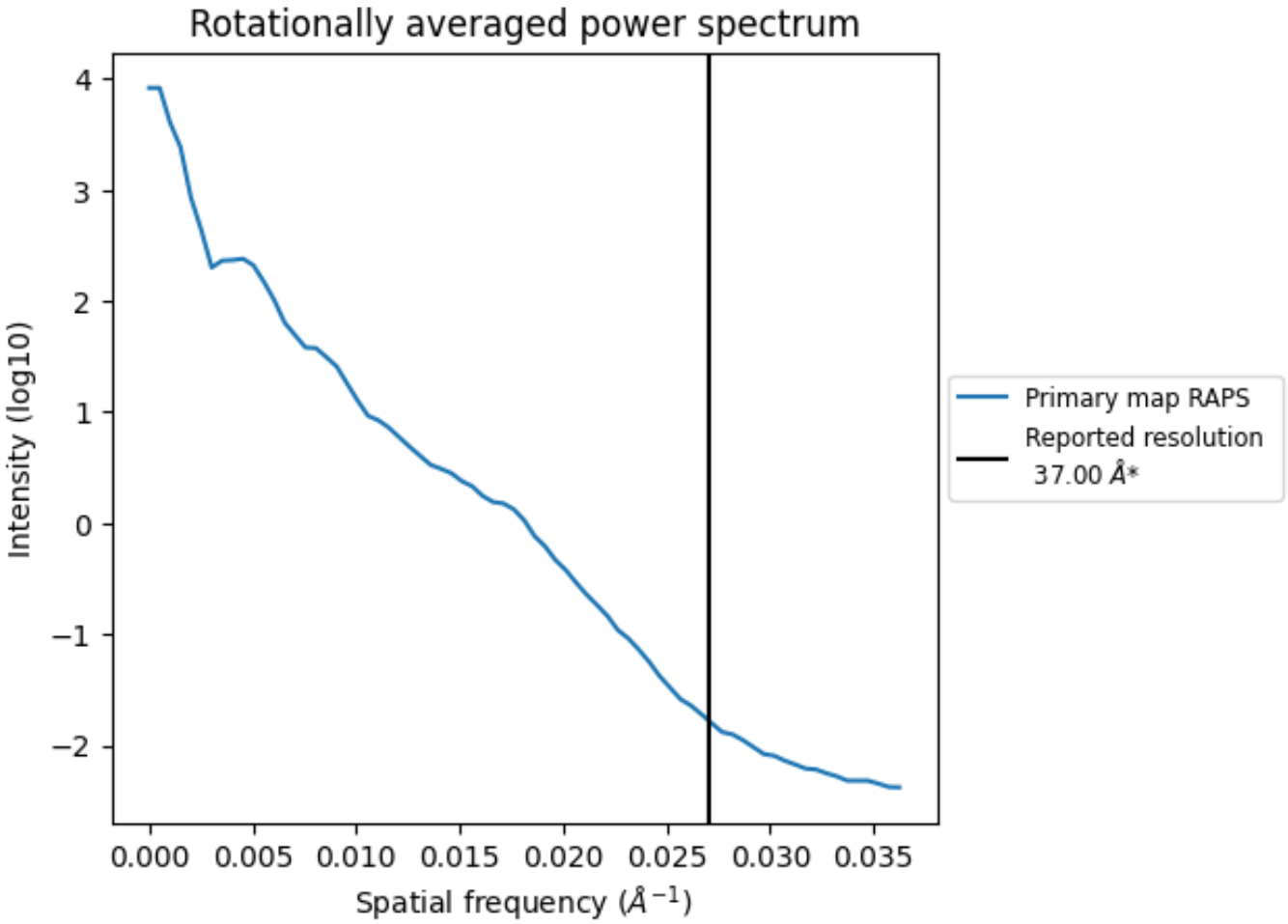
7.2 Volume estimate (i)



The volume at the recommended contour level is 250411 nm^3; this corresponds to an approximate mass of 226203 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.027 Å^{-1}

8 Fourier-Shell correlation

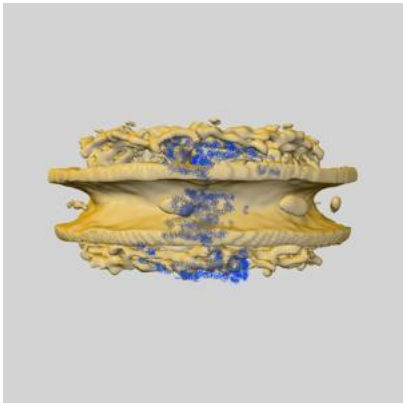
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

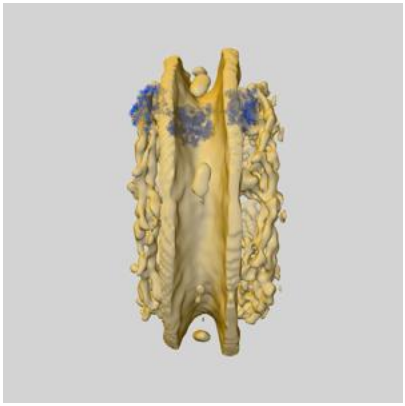
This section contains information regarding the fit between EMDB map EMD-11967 and PDB model 7TBK. Per-residue inclusion information can be found in section 3 on page 17.

9.1 Map-model overlays

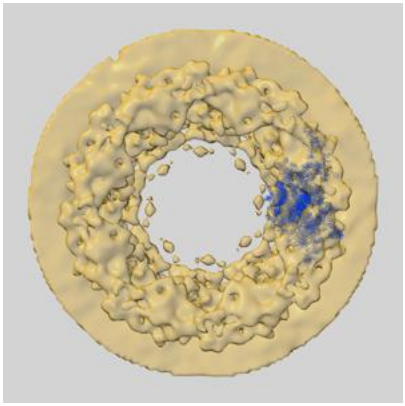
9.1.1 Map-model overlay



X

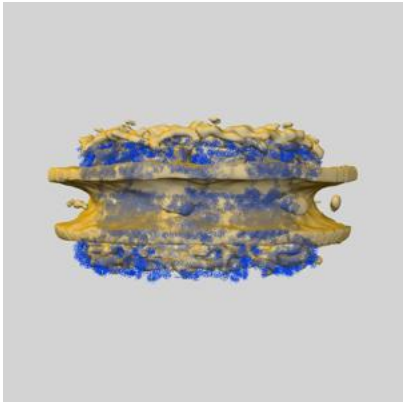


Y

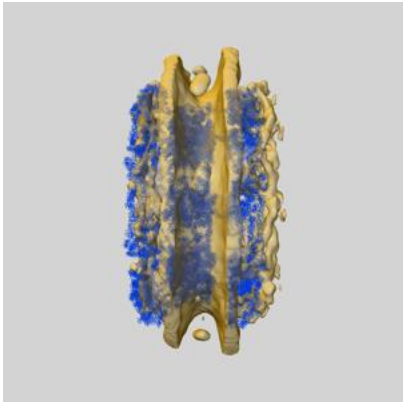


Z

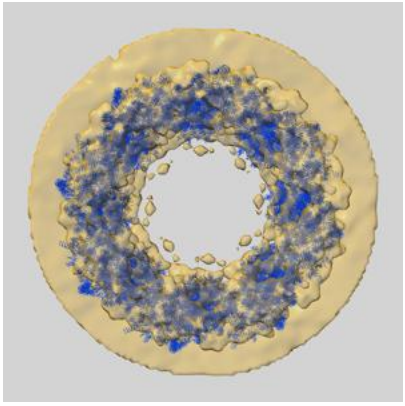
9.1.2 Map-model assembly overlay



X



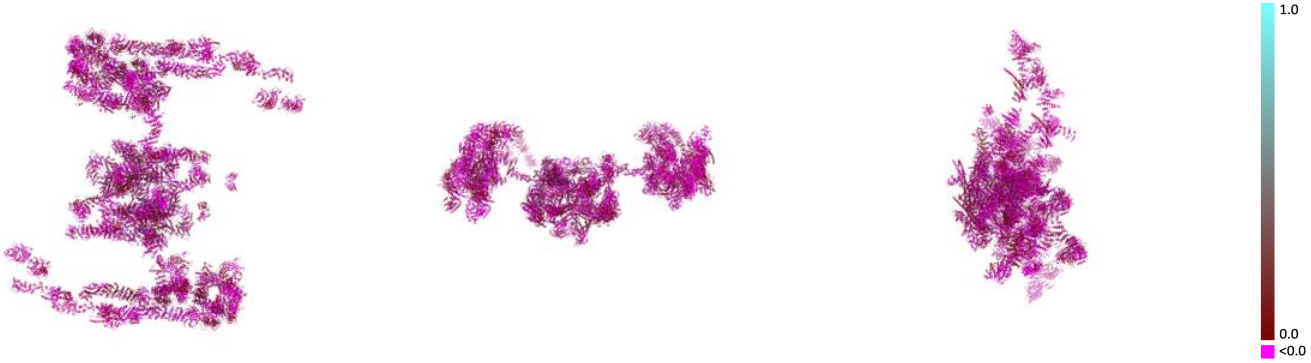
Y



Z

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

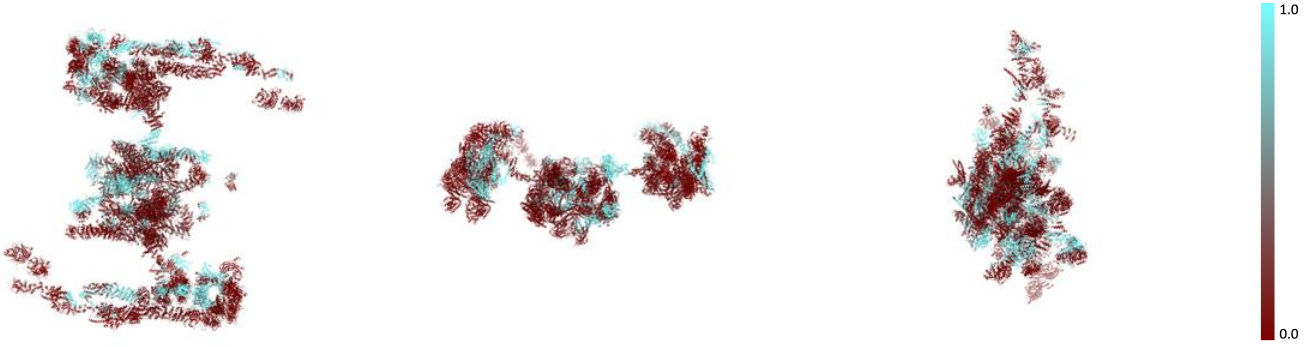
9.2 Q-score mapped to coordinate model



X Y Z

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

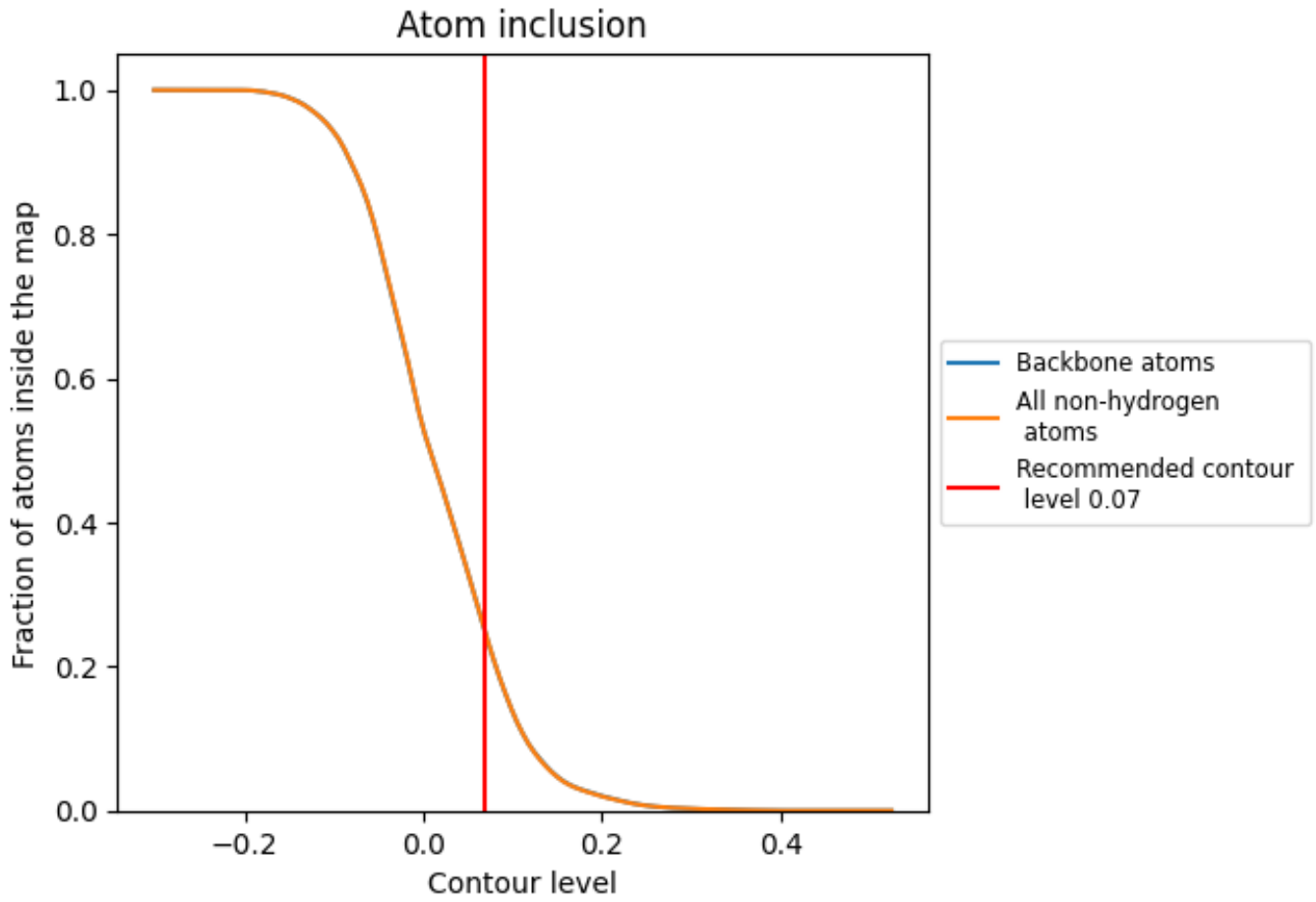
9.3 Atom inclusion mapped to coordinate model



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 25% of all backbone atoms, 25% 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	0.2458	-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	0.0000
T2	0.2740	0.0140
T3	0.2010	-0.0070
T4	0.2240	-0.0020
U1	0.3669	0.0040
U2	0.0000	-0.0220
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	-0.0240
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