



Full wwPDB EM Validation Report ⓘ

Nov 28, 2022 – 03:02 PM EST

PDB ID : 7TBI
EMDB ID : EMD-10198
Title : Composite structure of the *S. cerevisiae* nuclear pore complex (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 : 25.00 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

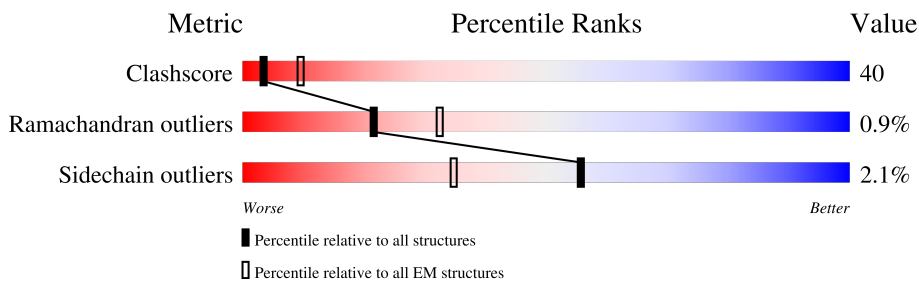
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 25.00 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A1	1316	
1	A2	1316	
1	A3	1316	
1	A4	1316	
2	B1	14	
2	B2	14	
2	B3	14	
2	B4	14	

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Mol	Chain	Length	Quality of chain
3	C1	17	59% 100%
3	C2	17	88% 100%
3	C3	17	100% 100%
3	C4	17	100%
4	D1	720	22% 84% 12% ..
4	D2	720	14% 87% 10% ..
4	D3	720	17% 82% 15% ..
4	D4	720	30% 86% 10% ..
5	E1	18	94% 83% 11% 6%
5	E2	18	50% 83% 11% 6%
5	E3	18	39% 83% 11% 6%
5	E4	18	39% 83% 11% 6%
6	F1	1848	80% 9% 11%
6	F2	1848	82% 7% 11%
7	G1	53	75% 25%
7	G2	53	81% 19%
8	H1	13	100%
8	H2	13	100%
9	I1	1756	5% 75% 13% 12%
9	I2	1756	8% 73% 15% 12%
10	J1	63	13% 73% 27%
10	J2	63	33% 75% 25%
11	K1	9	78% 22%
11	K2	9	100%
12	L1	2	100%

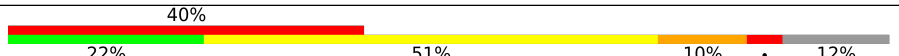
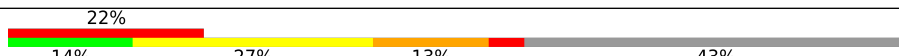

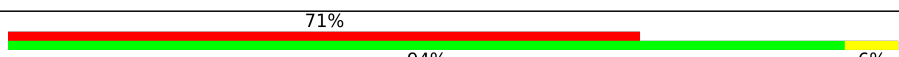
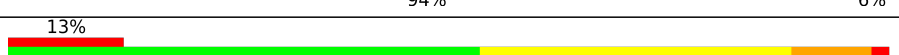

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Mol	Chain	Length	Quality of chain
12	L2	2	100%
13	M1	183	72% 20% 8%
13	M2	183	10% 87% 5% 8%
13	M3	183	69% 23% 8%
13	M4	183	14% 88% 8%
14	N1	222	6% 73% 8% 19%
14	N2	222	15% 76% 5% 19%
14	N3	222	67% 14% 19%
14	N4	222	10% 77% 19%
15	O1	241	9% 71% 29%
15	O2	241	19% 85% 15%
15	O3	241	6% 69% 31%
15	O4	241	24% 88% 12%
16	P1	40	78% 22%
16	P2	40	92% 8%
16	P3	40	50% 50%
16	P4	40	92% 8%
17	Q1	1100	37% 23% 65% 5% 6%
17	Q2	1100	13% 24% 64% 5% 7%
18	R1	720	14% 51% 39% 7%
19	R2	726	6% 49% 33% 14%
20	S1	621	58% 21% 18%
20	S2	621	8% 58% 21% 18%
21	T1	286	63% 30%
21	T2	286	64% 29%

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Mol	Chain	Length	Quality of chain
22	U1	346	 54% 34% 11%
22	U2	346	 62% 26% 11%
23	V1	698	 10% 68% 20% 11%
23	V2	698	 67% 20% 11%
24	W1	1037	 5% 69% 16% 14%
24	W2	1037	 17% 71% 14% 14%
25	X1	187	 40% 22% 51% 10% 12%
25	X2	187	 10% 22% 51% 11% 12%
26	Y1	340	 22% 14% 27% 13% 43%
26	Y2	340	 9% 11% 30% 11% 5% 43%
27	Z1	713	 8% 12% 40% 26% 7% 14%
27	Z2	713	 10% 13% 39% 27% 7% 14%
28	a1	146	 87% 94% 6%
28	a2	146	 71% 94% 6%
29	b1	86	 13% 53% 35% 9%
29	b2	86	 7% 53% 35% 10%

2 Entry composition [i](#)

There are 29 unique types of molecules in this entry. The entry contains 221308 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 Nup157/Nup170.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A2	1231	9730	6152	1707	1843	28	1	0
1	A3	1231	9730	6152	1707	1843	28	1	0
1	A4	1227	9703	6135	1703	1838	27	1	0
1	A1	1227	9703	6135	1703	1838	27	1	0

- Molecule 2 is a protein called Nup53/Nup59 R3.

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

- Molecule 3 is a protein called Nup145N/Nup100/Nup116 R3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C2	17	138	88	24	25	1	0	0
3	C3	17	138	88	24	25	1	0	0
3	C1	17	138	88	24	25	1	0	0
3	C4	17	138	88	24	25	1	0	0

- Molecule 4 is a protein called Nic96 SOL.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D2	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D3	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D4	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		

- Molecule 5 is a protein called Nup53/Nup59 R2.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E1	18	Total	C	N	O	0	0
			137	88	22	27		
5	E2	18	Total	C	N	O	0	0
			137	88	22	27		
5	E3	18	Total	C	N	O	0	0
			137	88	22	27		
5	E4	18	Total	C	N	O	0	0
			137	88	22	27		

- Molecule 6 is a protein called Nup188.

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

- Molecule 7 is a protein called Nic96 R2.

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

- Molecule 8 is a protein called Nup145N/Nup100/Nup116 R2.

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

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

- Molecule 9 is a protein called Nup192.

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

- Molecule 10 is a protein called Nic96 R2.

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

- Molecule 11 is a protein called Nup145N/Nup100/Nup116 R1.

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

- Molecule 12 is a protein called Nup53/Nup59 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
12	L1	2	15	11	2	2	0	0
12	L2	2	15	11	2	2	0	0

- Molecule 13 is a protein called Nsp1.

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

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

- Molecule 14 is a protein called Nup57.

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

- Molecule 15 is a protein called Nup49.

Mol	Chain	Residues	Atoms				AltConf	Trace	
15	O1	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O2	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O3	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O4	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		

- Molecule 16 is a protein called Nic96 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P1	40	Total	C	N	O	0	0
			311	195	59	57		
16	P2	40	Total	C	N	O	0	0
			311	195	59	57		
16	P3	40	Total	C	N	O	0	0
			311	195	59	57		
16	P4	40	Total	C	N	O	0	0
			311	195	59	57		

- Molecule 17 is a protein called Nup133.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Q1	1031	Total	C	N	O	S	0	0
			8392	5405	1357	1606	24		
17	Q2	1027	Total	C	N	O	S	0	0
			8359	5382	1352	1601	24		

- Molecule 18 is a protein called Nup84.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R1	669	Total	C	N	O	S	0	0
			5448	3496	892	1043	17		

- Molecule 19 is a protein called Nup84.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	R2	622	Total	C	N	O	S	0	0
			5069	3262	822	970	15		

- Molecule 20 is a protein called Nup145C.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	S1	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		
20	S2	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		

- Molecule 21 is a protein called Sec13.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	T1	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		
21	T2	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		

- Molecule 22 is a protein called Seh1.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	U1	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		
22	U2	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		

- Molecule 23 is a protein called Nup85.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	V1	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		
23	V2	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		

- Molecule 24 is a protein called Nup120.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	W1	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		
24	W2	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		

- Molecule 25 is a protein called Nsp1.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	X1	164	Total	C	N	O	S	0	0
			1321	817	221	282	1		
25	X2	164	Total	C	N	O	S	0	0
			1321	817	221	282	1		

- Molecule 26 is a protein called Nup159.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Y1	195	Total	C	N	O	S	0	0
			1590	1013	269	300	8		
26	Y2	195	Total	C	N	O	S	0	0
			1590	1013	269	300	8		

- Molecule 27 is a protein called Nup82.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Z1	610	Total	C	N	O	S	0	0
			4990	3182	826	965	17		
27	Z2	610	Total	C	N	O	S	0	0
			4990	3182	826	965	17		

- Molecule 28 is a protein called Nup116 CTD.

Mol	Chain	Residues	Atoms						AltConf	Trace
28	a1	146	Total	C	N	O	S	Se	0	0
			1165	745	204	212	3	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	N	O	S			Se
28	a2	146	1165	745	204	212	3	1	0	0

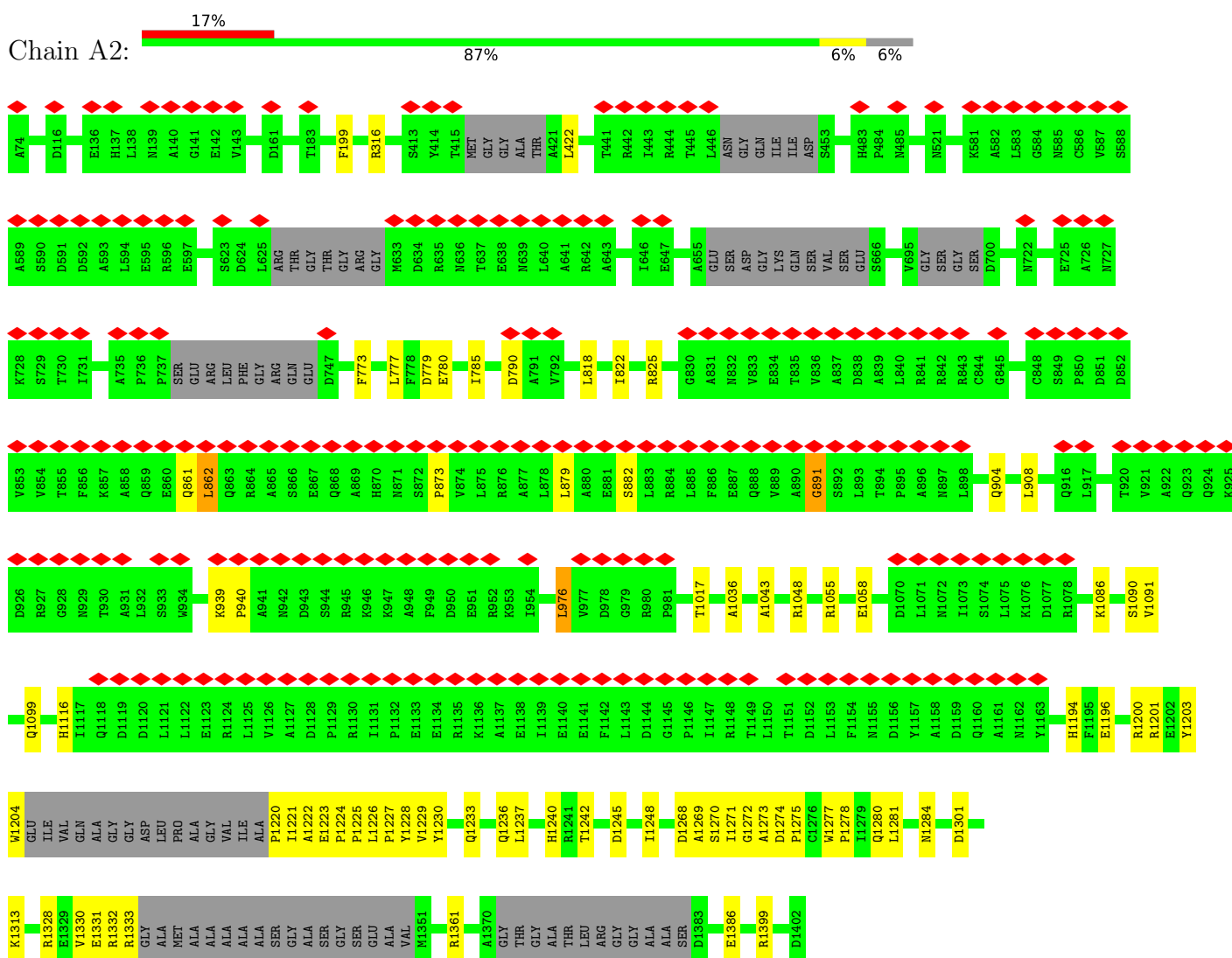
- Molecule 29 is a protein called Dyn2.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
29	b1	86	691	453	111	127	0	0
29	b2	86	691	453	111	127	0	0

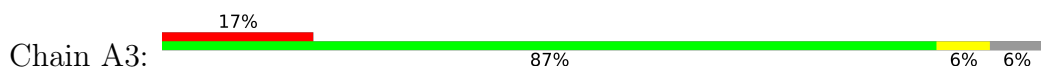
3 Residue-property plots

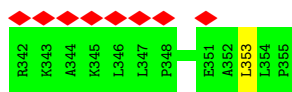
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: Nup157/Nup170



- Molecule 1: Nup157/Nup170





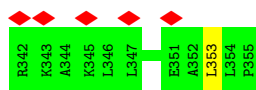
- Molecule 2: Nup53/Nup59 R3



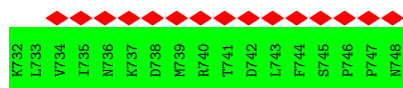
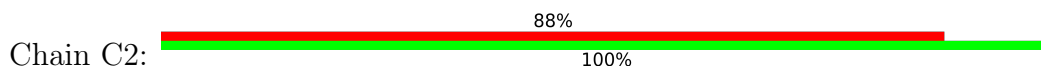
- Molecule 2: Nup53/Nup59 R3



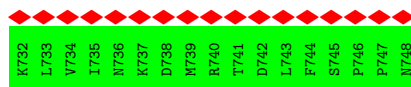
- Molecule 2: Nup53/Nup59 R3



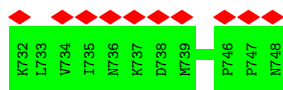
- Molecule 3: Nup145N/Nup100/Nup116 R3



- Molecule 3: Nup145N/Nup100/Nup116 R3



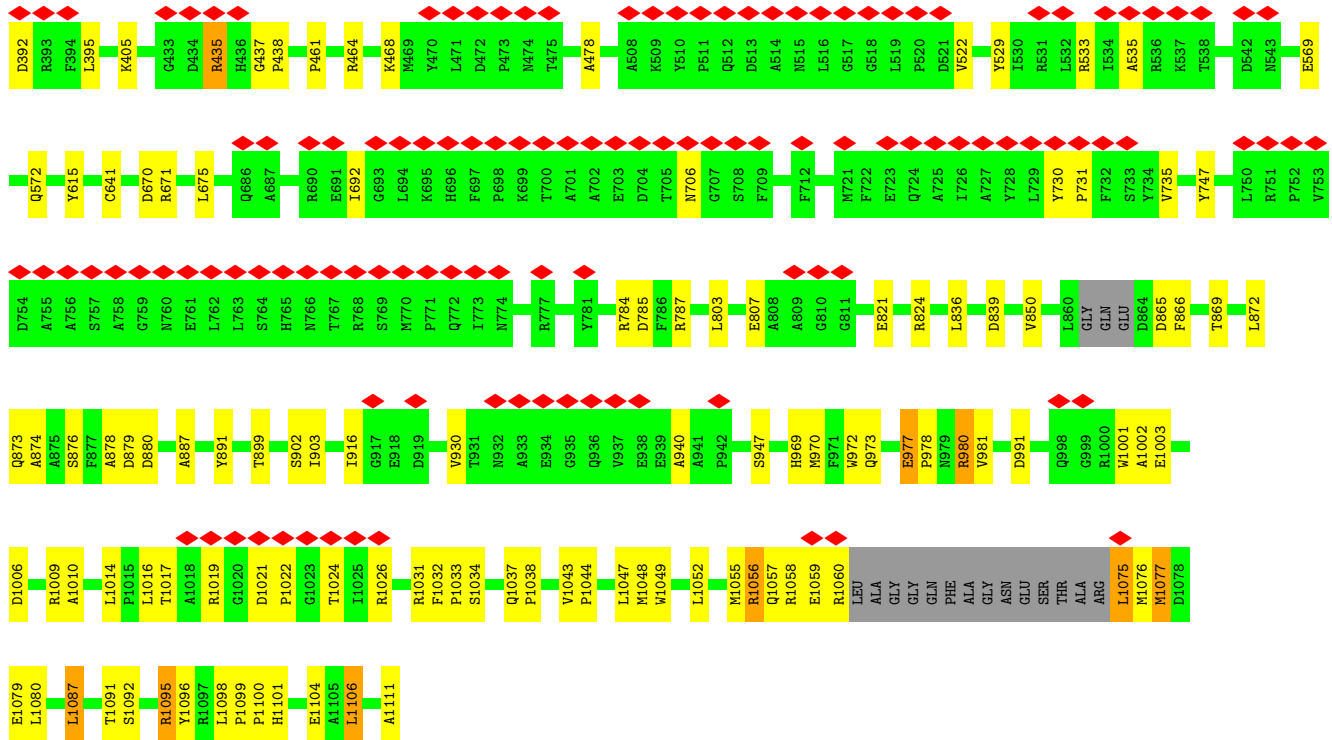
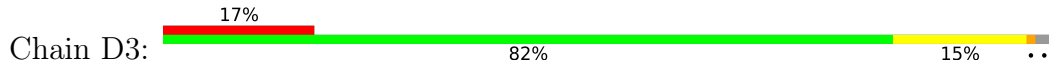
- Molecule 3: Nup145N/Nup100/Nup116 R3



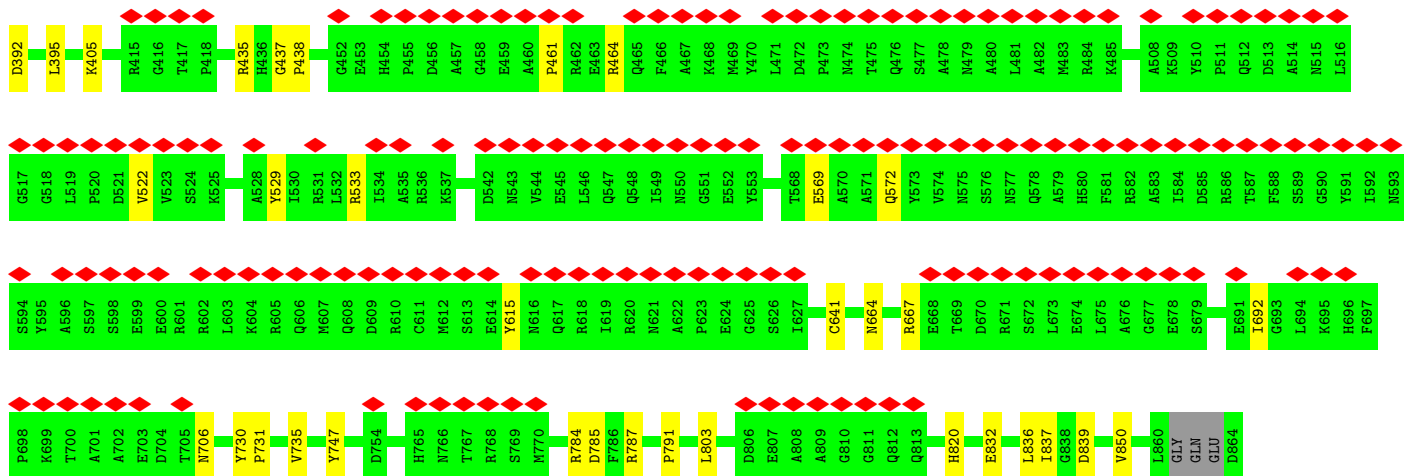
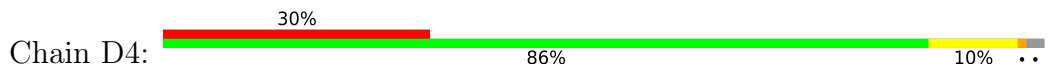
- Molecule 3: Nup145N/Nup100/Nup116 R3

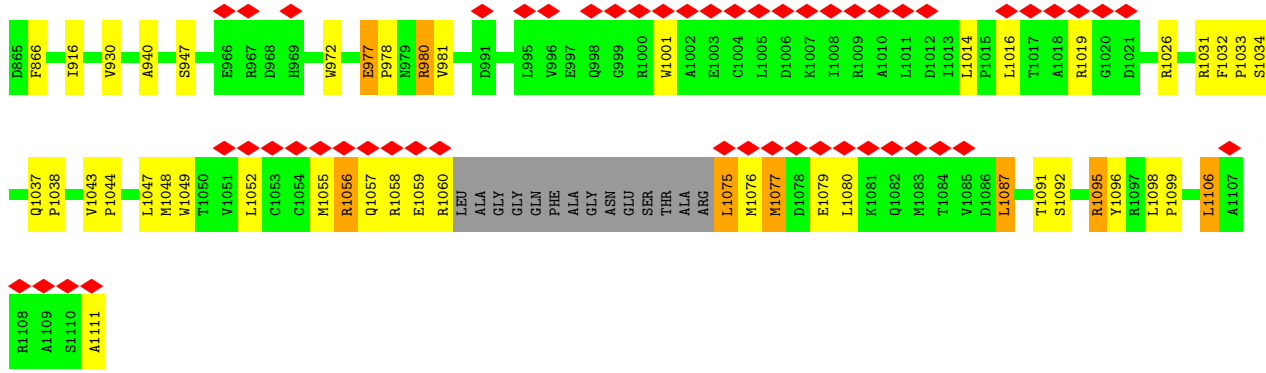


• Molecule 4: Nic96 SOL

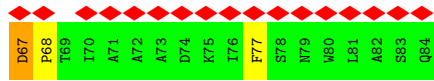
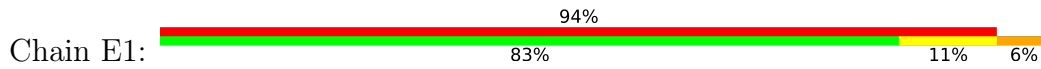


• Molecule 4: Nic96 SOL

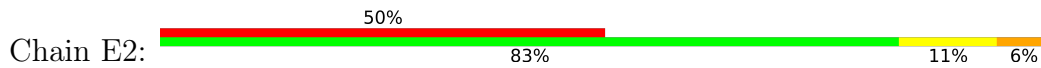




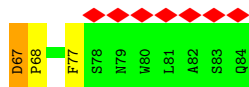
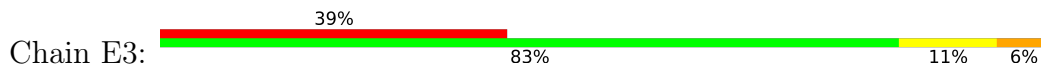
• Molecule 5: Nup53/Nup59 R2



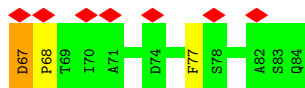
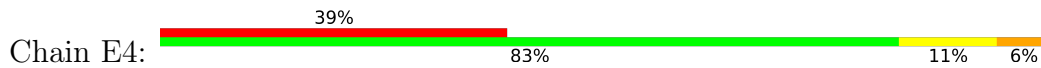
• Molecule 5: Nup53/Nup59 R2



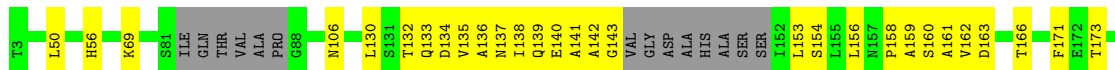
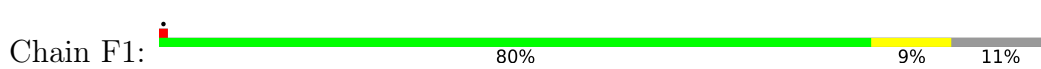
• Molecule 5: Nup53/Nup59 R2

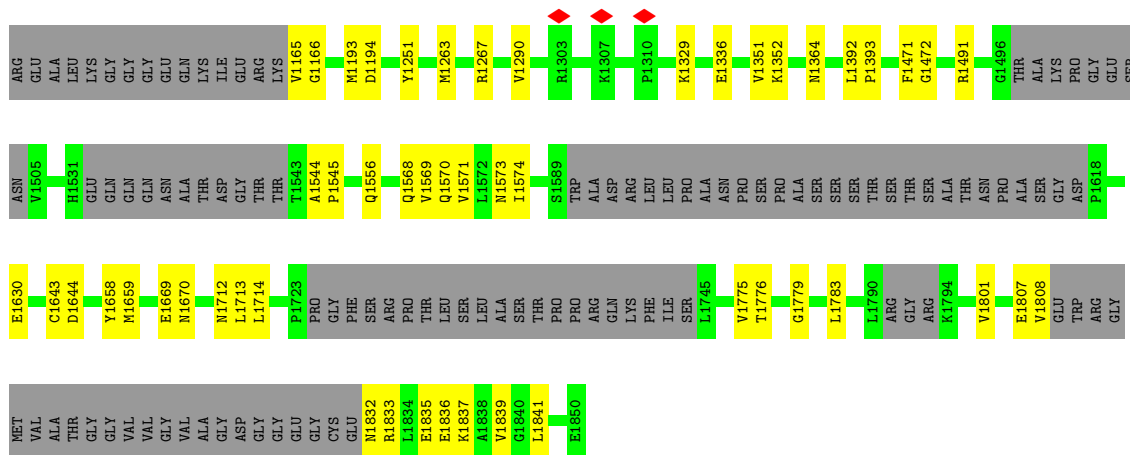


• Molecule 5: Nup53/Nup59 R2

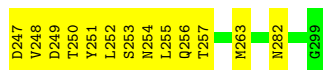
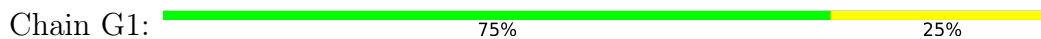


• Molecule 6: Nup188

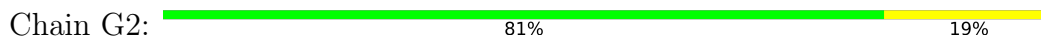




- Molecule 7: Nic96 R2



- Molecule 7: Nic96 R2



- Molecule 8: Nup145N/Nup100/Nup116 R2



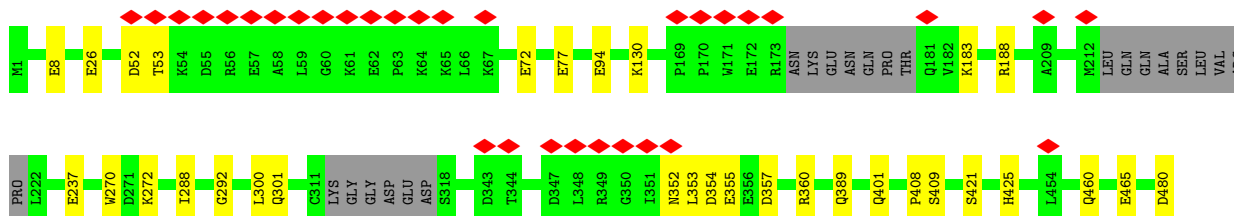
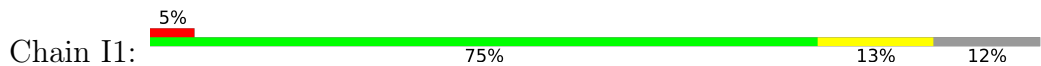
There are no outlier residues recorded for this chain.

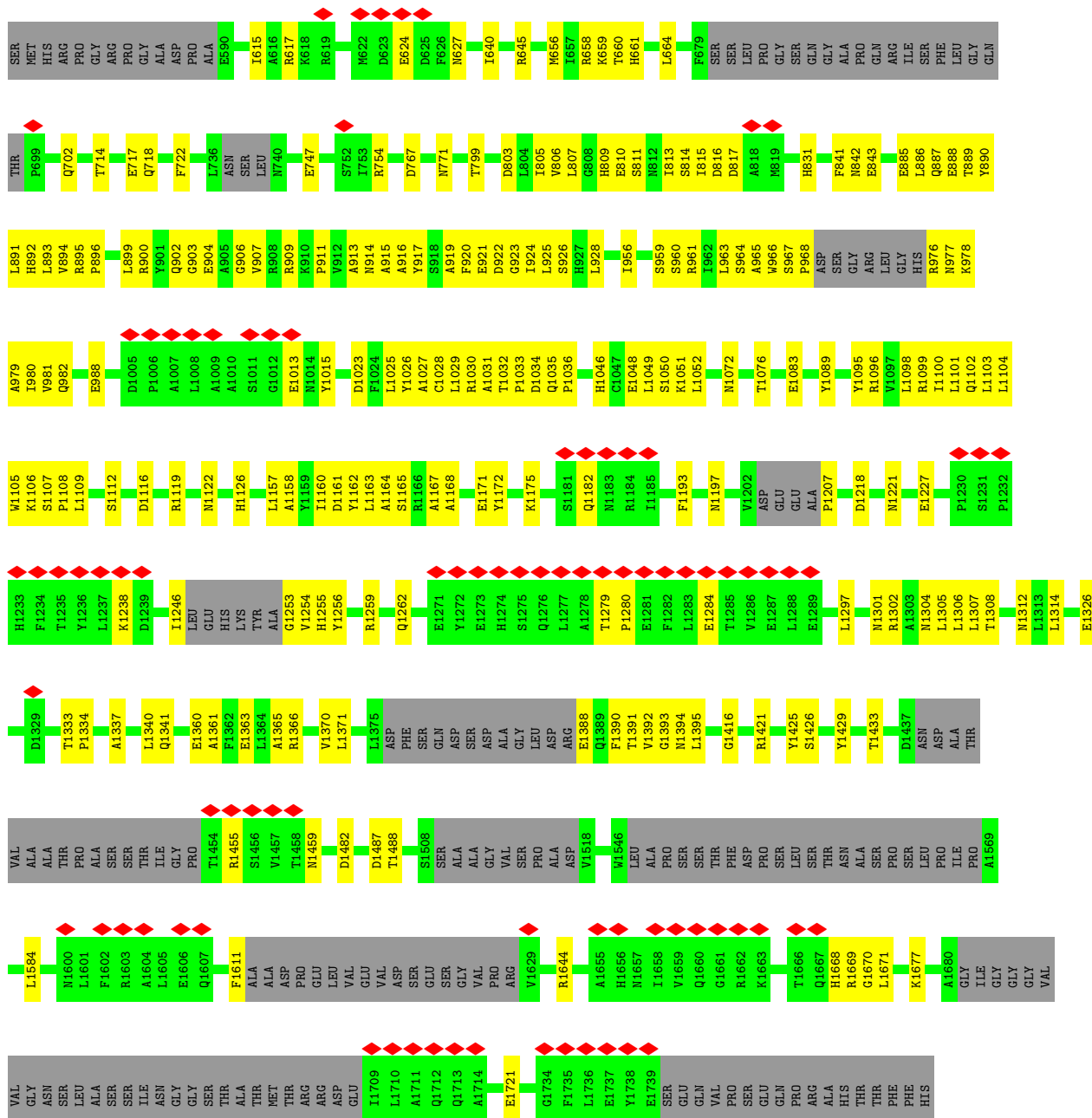
- Molecule 8: Nup145N/Nup100/Nup116 R2



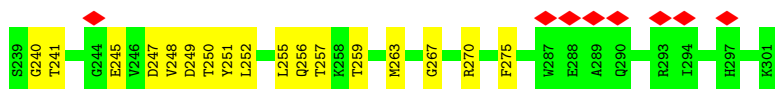
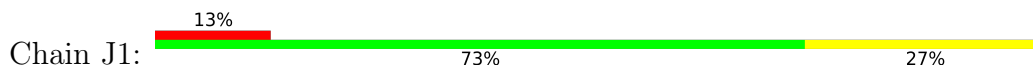
There are no outlier residues recorded for this chain.

- Molecule 9: Nup192

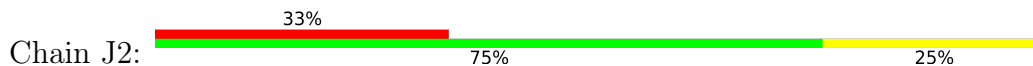




• Molecule 10: Nic96 R2

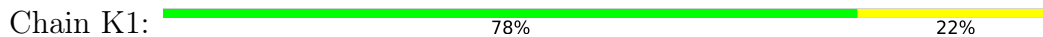


• Molecule 10: Nic96 R2





• Molecule 11: Nup145N/Nup100/Nup116 R1



• Molecule 11: Nup145N/Nup100/Nup116 R1



There are no outlier residues recorded for this chain.

• Molecule 12: Nup53/Nup59 R1



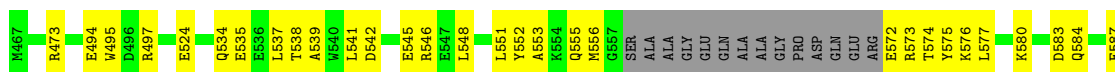
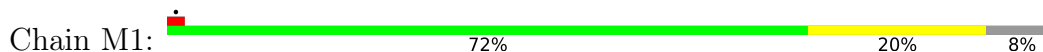
There are no outlier residues recorded for this chain.

• Molecule 12: Nup53/Nup59 R1

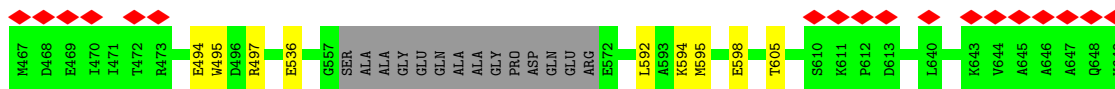
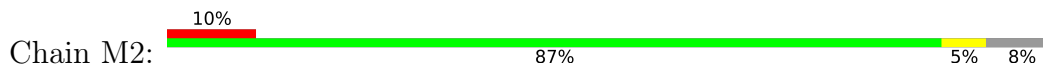


There are no outlier residues recorded for this chain.

• Molecule 13: Nsp1

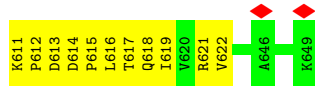
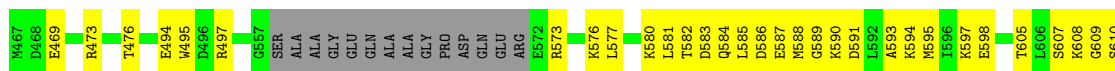


• Molecule 13: Nsp1

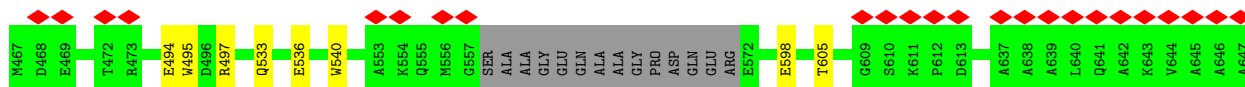
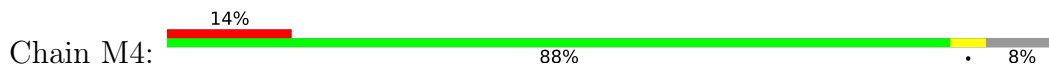


• Molecule 13: Nsp1

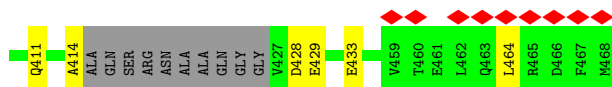
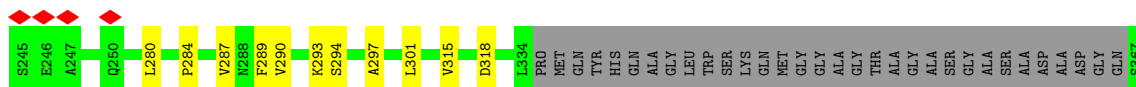
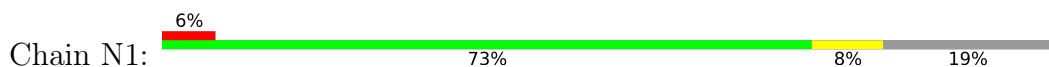




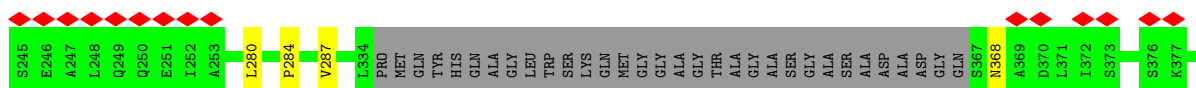
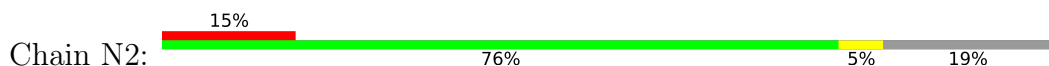
• Molecule 13: Nsp1



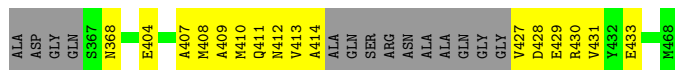
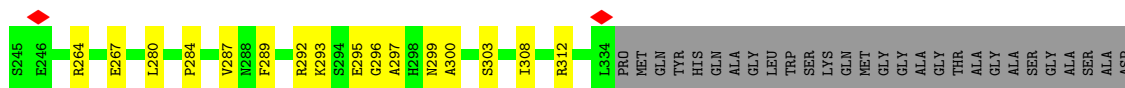
• Molecule 14: Nup57



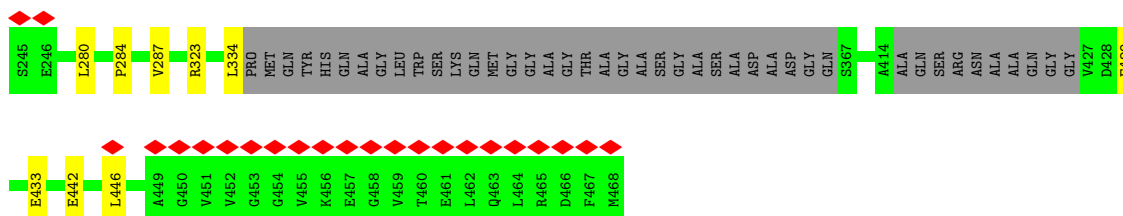
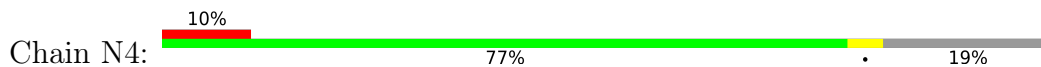
• Molecule 14: Nup57



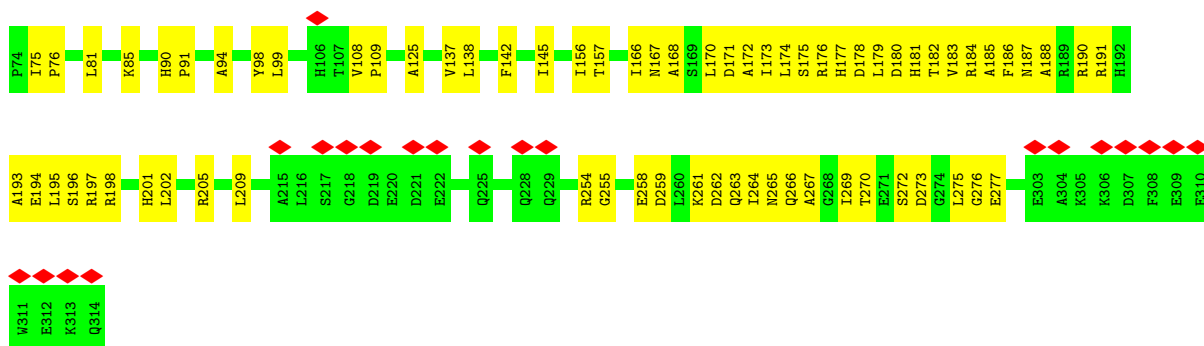
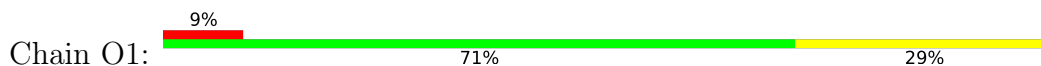
• Molecule 14: Nup57



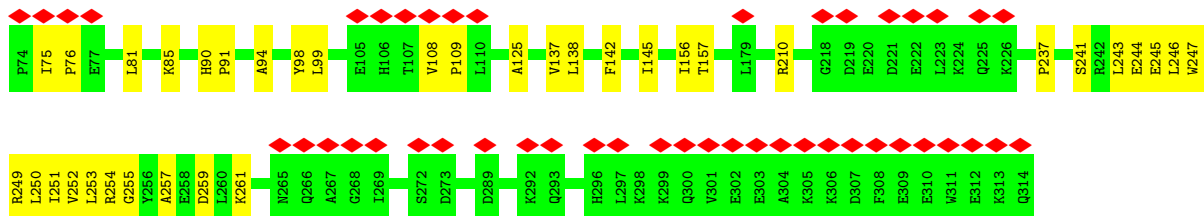
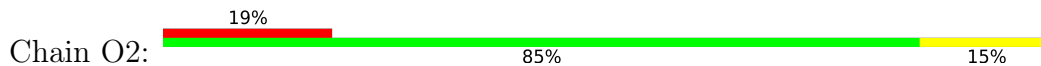
• Molecule 14: Nup57



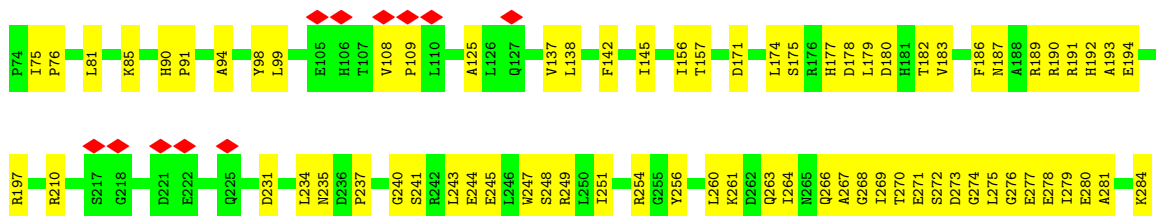
• Molecule 15: Nup49

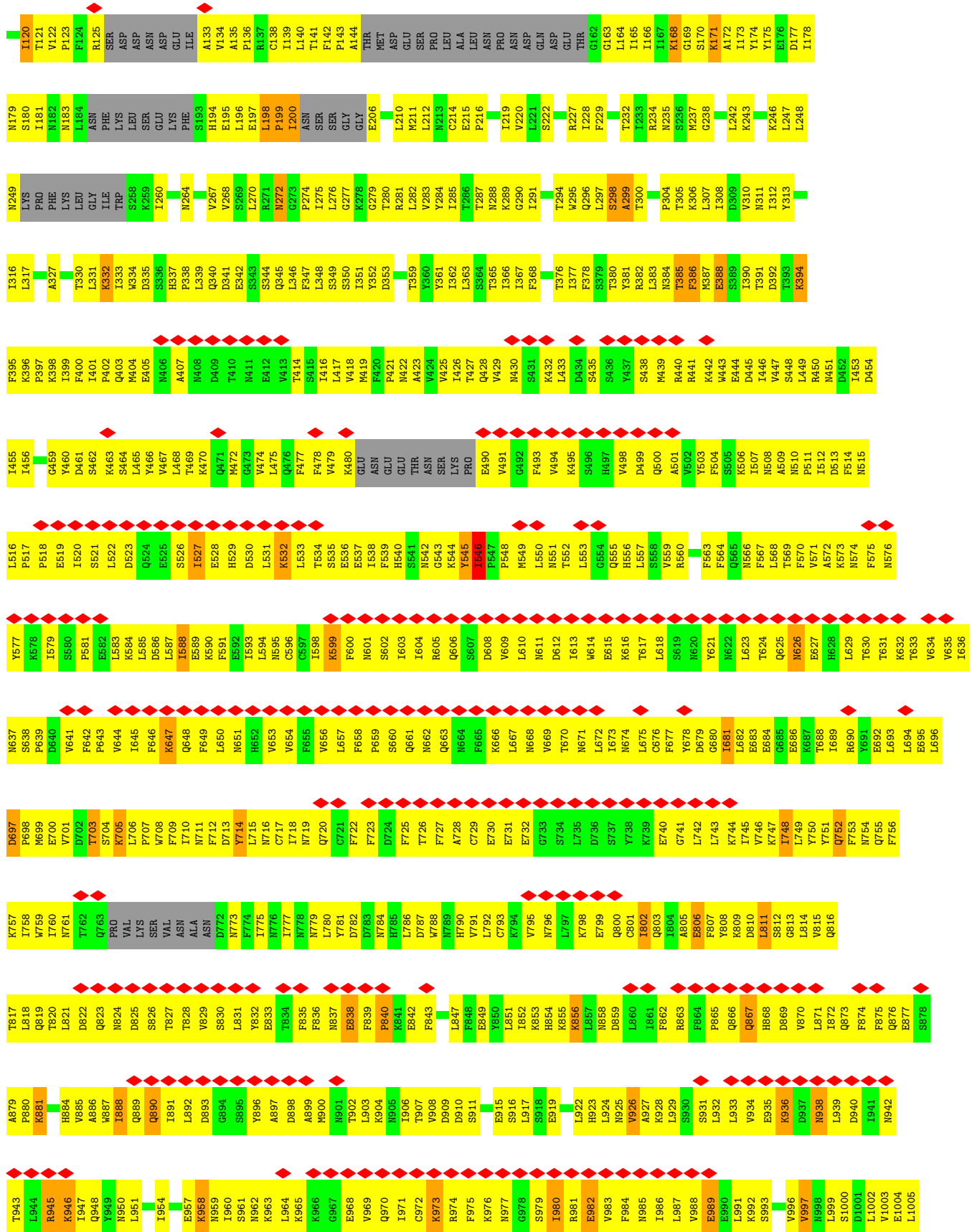


• Molecule 15: Nup49



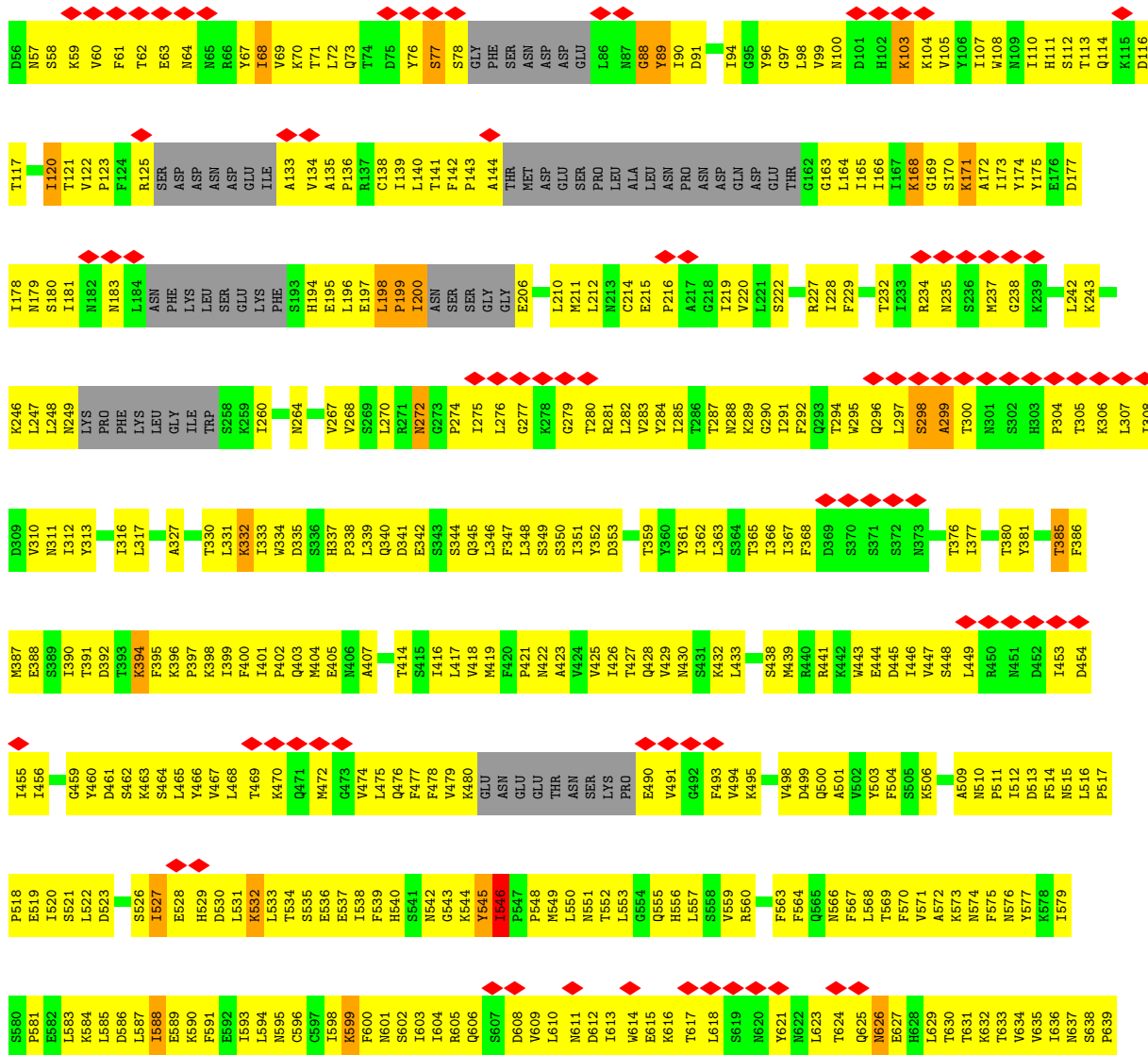
• Molecule 15: Nup49

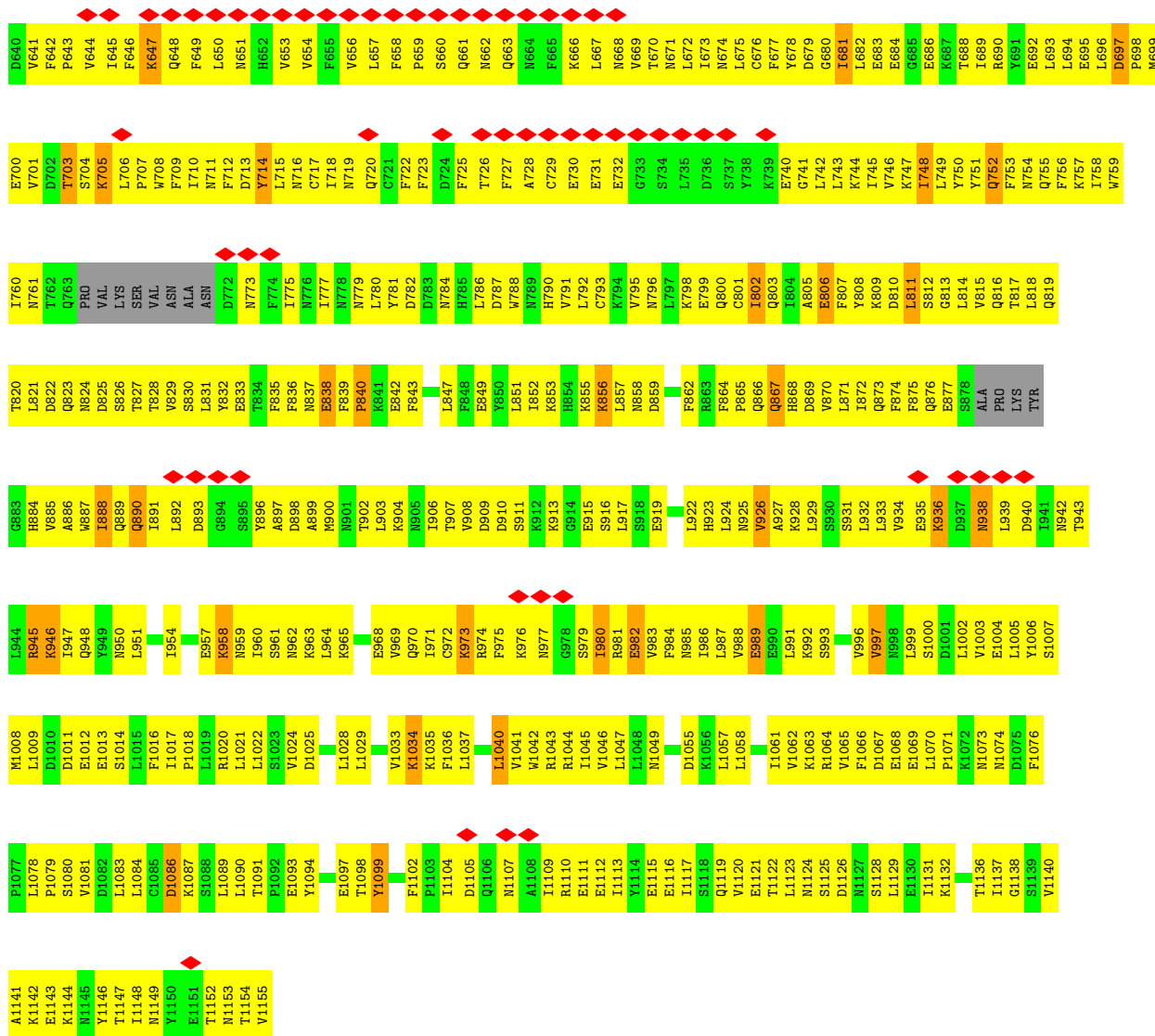




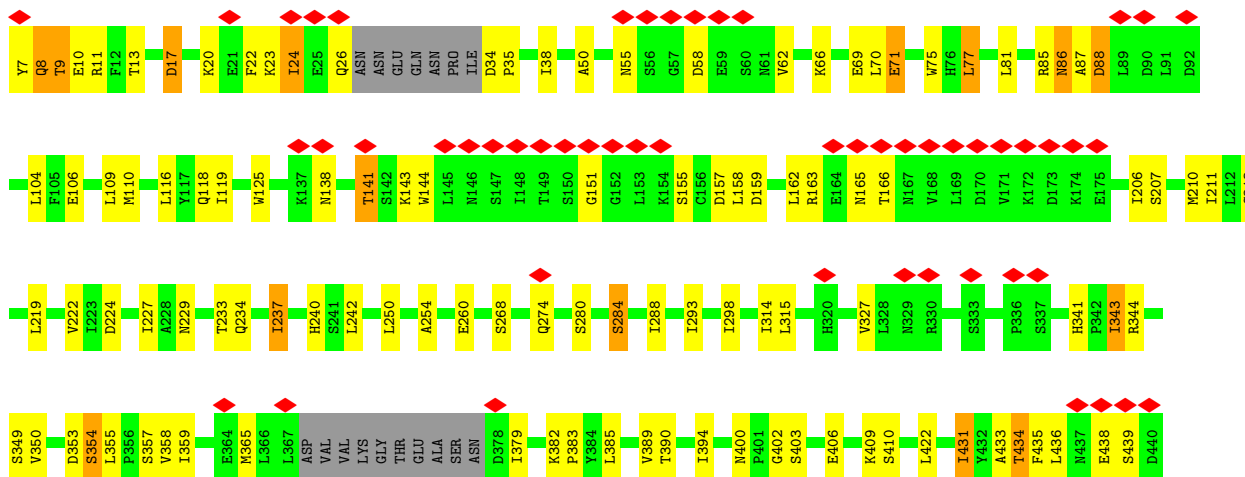


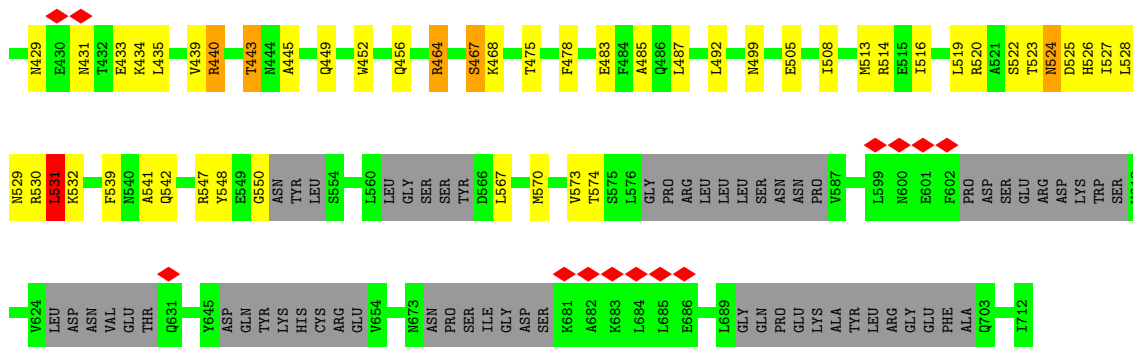
• Molecule 17: Nup133



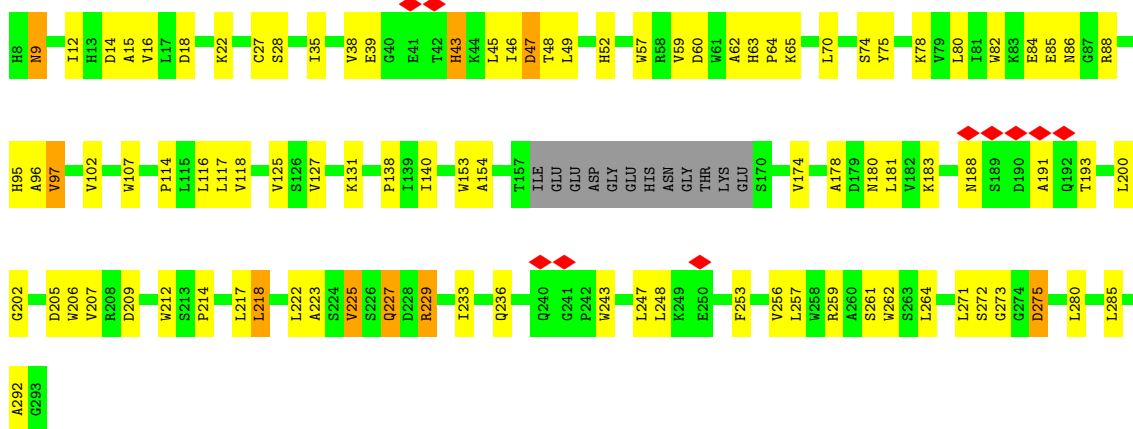


• Molecule 18: Nup84

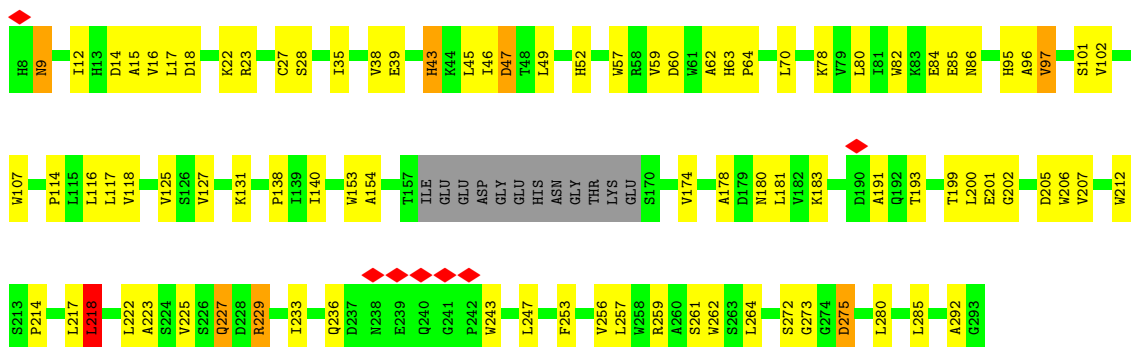




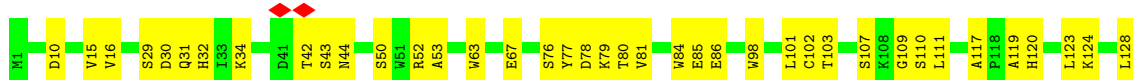
• Molecule 21: Sec13

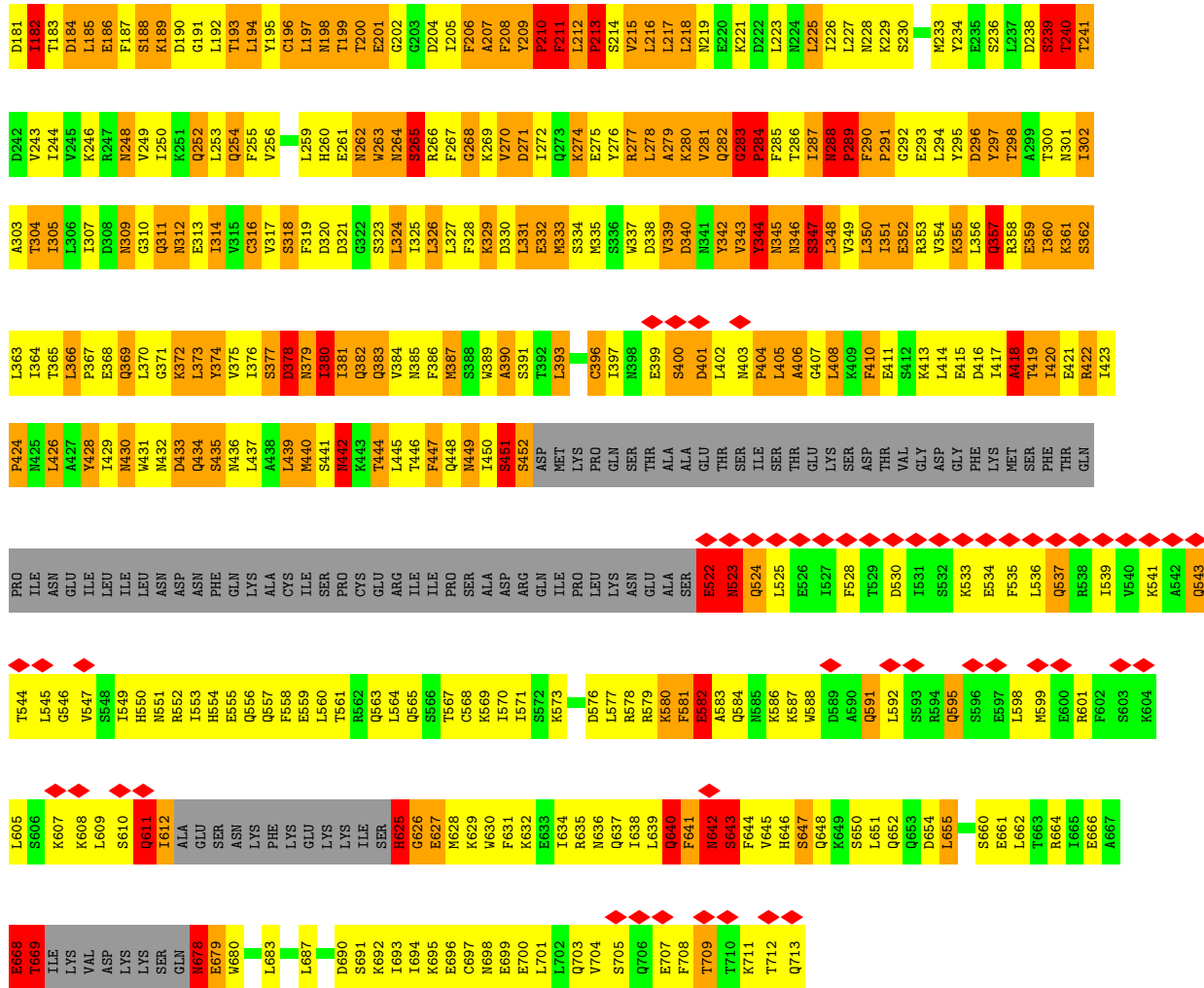


• Molecule 21: Sec13

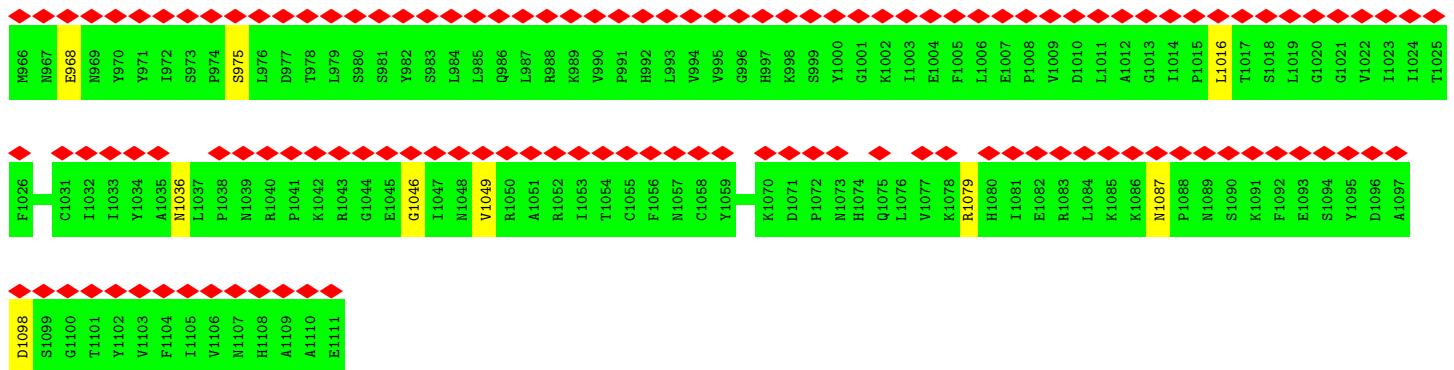
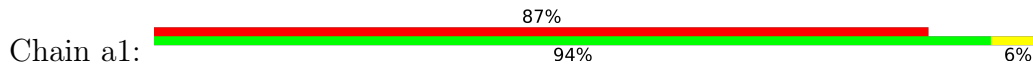


• Molecule 22: Seh1

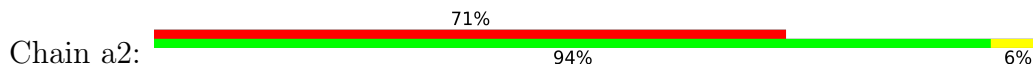


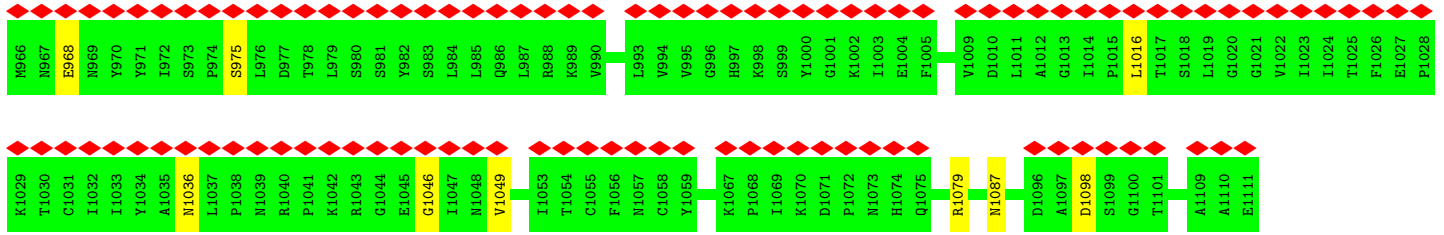


• Molecule 28: Nup116 CTD

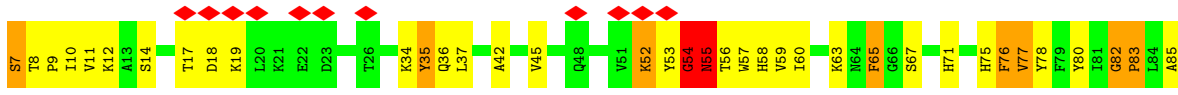


• Molecule 28: Nup116 CTD

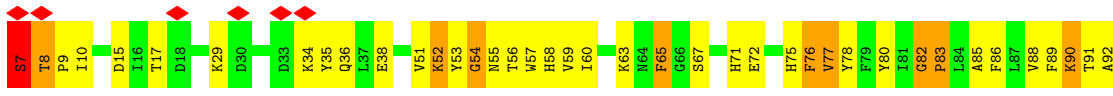




• Molecule 29: Dyn2



• Molecule 29: Dyn2



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	4000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	140	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.515	Depositor
Minimum map value	-0.337	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.032	Depositor
Recommended contour level	0.0606	Depositor
Map size (\AA)	1941.1199, 1941.1199, 1941.1199	wwPDB
Map dimensions	288, 288, 288	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	6.74, 6.74, 6.74	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A1	0.29	1/9897 (0.0%)	0.44	0/13434
1	A2	0.28	1/9926 (0.0%)	0.44	0/13474
1	A3	0.28	1/9926 (0.0%)	0.44	0/13474
1	A4	0.29	1/9897 (0.0%)	0.44	0/13434
2	B1	0.25	0/112	0.48	0/149
2	B2	0.25	0/112	0.48	0/149
2	B3	0.26	0/112	0.48	0/149
2	B4	0.25	0/112	0.48	0/149
3	C1	0.39	0/140	0.50	0/188
3	C2	0.39	0/140	0.50	0/188
3	C3	0.39	0/140	0.50	0/188
3	C4	0.39	0/140	0.50	0/188
4	D1	0.22	0/5696	0.38	0/7702
4	D2	0.22	0/5696	0.38	0/7702
4	D3	0.22	0/5696	0.38	0/7702
4	D4	0.22	0/5696	0.38	0/7702
5	E1	0.20	0/140	0.32	0/191
5	E2	0.20	0/140	0.32	0/191
5	E3	0.20	0/140	0.32	0/191
5	E4	0.20	0/140	0.33	0/191
6	F1	0.24	0/13031	0.39	0/17717
6	F2	0.24	0/13031	0.39	0/17717
7	G1	0.23	0/445	0.39	0/600
7	G2	0.23	0/445	0.38	0/600
8	H1	0.25	0/95	0.37	0/128
8	H2	0.25	0/95	0.37	0/128
9	I1	0.23	0/12541	0.36	0/16980
9	I2	0.23	0/12541	0.36	0/16980
10	J1	0.23	0/511	0.37	0/688
10	J2	0.23	0/511	0.37	0/688
11	K1	0.23	0/75	0.40	0/101
11	K2	0.24	0/75	0.39	0/101
12	L1	0.29	0/15	0.18	0/18
12	L2	0.29	0/15	0.18	0/18

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
13	M1	0.26	0/1388	0.39	0/1866
13	M2	0.26	0/1388	0.40	0/1866
13	M3	0.26	0/1388	0.40	0/1866
13	M4	0.26	0/1388	0.40	0/1866
14	N1	0.24	0/1413	0.38	0/1898
14	N2	0.25	0/1413	0.38	0/1898
14	N3	0.25	0/1413	0.38	0/1898
14	N4	0.25	0/1413	0.38	0/1898
15	O1	0.26	0/2011	0.41	0/2715
15	O2	0.26	0/2011	0.41	0/2715
15	O3	0.26	0/2011	0.41	0/2715
15	O4	0.27	0/2011	0.41	0/2715
16	P1	0.23	0/312	0.38	0/416
16	P2	0.24	0/312	0.38	0/416
16	P3	0.23	0/312	0.38	0/416
16	P4	0.23	0/312	0.38	0/416
17	Q1	0.90	0/8558	1.17	14/11594 (0.1%)
17	Q2	0.90	0/8522	1.17	14/11543 (0.1%)
18	R1	0.64	0/5549	0.83	3/7512 (0.0%)
19	R2	0.60	0/5167	0.81	3/6998 (0.0%)
20	S1	0.37	0/3860	0.66	2/5224 (0.0%)
20	S2	0.37	0/3860	0.66	2/5224 (0.0%)
21	T1	0.32	0/2220	0.62	0/3028
21	T2	0.32	0/2220	0.62	1/3028 (0.0%)
22	U1	0.28	0/2499	0.64	0/3388
22	U2	0.28	0/2499	0.64	0/3388
23	V1	0.31	0/4602	0.58	2/6246 (0.0%)
23	V2	0.31	0/4602	0.58	2/6246 (0.0%)
24	W1	0.33	0/6730	0.55	1/9158 (0.0%)
24	W2	0.33	0/6730	0.55	1/9158 (0.0%)
25	X1	13.08	17/1334 (1.3%)	3.38	56/1799 (3.1%)
25	X2	13.35	17/1334 (1.3%)	3.45	56/1799 (3.1%)
26	Y1	18.10	39/1600 (2.4%)	4.40	111/2135 (5.2%)
26	Y2	19.43	42/1600 (2.6%)	4.44	123/2135 (5.8%)
27	Z1	10.50	150/5078 (3.0%)	3.50	427/6856 (6.2%)
27	Z2	10.27	154/5078 (3.0%)	3.59	430/6856 (6.3%)
28	a1	0.35	0/1193	0.64	0/1617
28	a2	0.35	0/1193	0.64	0/1617
29	b1	4.70	21/707 (3.0%)	3.27	67/954 (7.0%)
29	b2	3.69	25/707 (3.5%)	3.29	68/954 (7.1%)
All	All	3.49	469/225362 (0.2%)	1.16	1383/305237 (0.5%)

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	A2	0	2
1	A3	0	2
1	A4	0	2
17	Q1	0	1
17	Q2	0	1
18	R1	0	1
19	R2	0	1
20	S1	0	2
20	S2	0	2
24	W1	0	2
24	W2	0	2
25	X1	1	5
25	X2	1	9
26	Y1	2	16
26	Y2	3	15
27	Z1	9	24
27	Z2	9	25
29	b1	0	4
29	b2	1	4
All	All	26	122

All (469) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	522	GLU	N-CA	437.41	10.21	1.46
26	Y2	1429	LYS	N-CA	312.18	7.70	1.46
25	X2	637	LEU	N-CA	298.89	7.44	1.46
26	Y2	1126	LEU	CA-C	292.74	9.14	1.52
25	X1	637	LEU	N-CA	285.24	7.16	1.46
27	Z1	452	SER	CA-C	282.81	8.88	1.52
26	Y2	1117	TYR	N-CA	275.21	6.96	1.46
26	Y1	1382	VAL	N-CA	273.09	6.92	1.46
27	Z1	522	GLU	N-CA	270.12	6.86	1.46
26	Y1	1126	LEU	CA-C	269.82	8.54	1.52
26	Y1	1332	LYS	N-CA	262.84	6.72	1.46
27	Z2	452	SER	CA-C	260.88	8.31	1.52
27	Z1	123	PRO	N-CD	252.89	5.01	1.47
25	X2	742	GLN	N-CA	244.56	6.35	1.46
27	Z1	625	HIS	N-CA	234.00	6.14	1.46

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Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	678	ASN	N-CA	232.91	6.12	1.46
26	Y1	1117	TYR	N-CA	230.95	6.08	1.46
27	Z2	625	HIS	N-CA	202.33	5.51	1.46
26	Y2	1412	GLU	CA-C	199.17	6.70	1.52
26	Y1	1321	MET	CA-C	199.03	6.70	1.52
26	Y2	1211	LEU	N-CA	196.98	5.40	1.46
26	Y2	1118	ALA	N-CA	196.31	5.38	1.46
26	Y1	1372	LYS	CA-C	191.31	6.50	1.52
26	Y2	1332	LYS	N-CA	190.14	5.26	1.46
25	X1	742	GLN	N-CA	181.73	5.09	1.46
25	X1	638	ASP	N-CA	170.58	4.87	1.46
26	Y2	1126	LEU	N-CA	166.14	4.78	1.46
26	Y2	1266	ALA	N-CA	162.74	4.71	1.46
27	Z1	23	PRO	N-CA	155.40	4.11	1.47
25	X2	637	LEU	CA-C	154.55	5.54	1.52
27	Z1	669	THR	CA-C	154.02	5.53	1.52
26	Y2	1239	PHE	CA-C	153.43	5.51	1.52
27	Z2	7	LEU	N-CA	151.09	4.48	1.46
25	X2	638	ASP	N-CA	148.73	4.43	1.46
25	X1	637	LEU	CA-C	148.53	5.39	1.52
25	X1	727	SER	CA-C	141.75	5.21	1.52
26	Y1	1117	TYR	CA-C	138.31	5.12	1.52
26	Y1	1126	LEU	N-CA	138.24	4.22	1.46
26	Y1	1429	LYS	N-CA	138.18	4.22	1.46
27	Z2	23	PRO	N-CA	132.12	3.71	1.47
26	Y2	1212	ARG	N-CA	130.84	4.08	1.46
27	Z1	642	ASN	N-CA	129.10	4.04	1.46
27	Z2	642	ASN	N-CA	129.05	4.04	1.46
27	Z1	452	SER	N-CA	126.84	4.00	1.46
26	Y2	1321	MET	CA-C	121.61	4.69	1.52
26	Y1	1239	PHE	CA-C	121.35	4.68	1.52
27	Z2	522	GLU	CA-C	120.70	4.66	1.52
27	Z2	16	SER	CA-C	118.46	4.61	1.52
25	X1	788	ASP	N-CA	117.32	3.81	1.46
27	Z1	16	SER	CA-C	116.25	4.55	1.52
27	Z1	23	PRO	N-CD	116.16	3.10	1.47
26	Y1	1382	VAL	CA-C	115.38	4.53	1.52
27	Z2	23	PRO	N-CD	114.61	3.08	1.47
26	Y2	1382	VAL	N-CA	112.95	3.72	1.46
26	Y1	1372	LYS	N-CA	110.59	3.67	1.46
27	Z1	612	ILE	CA-C	108.92	4.36	1.52
27	Z2	612	ILE	N-CA	108.22	3.62	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	626	GLY	N-CA	107.18	3.06	1.46
27	Z2	612	ILE	CA-C	106.36	4.29	1.52
26	Y1	1430	ASP	N-CA	104.64	3.55	1.46
26	Y1	1412	GLU	CA-C	102.99	4.20	1.52
27	Z1	641	PHE	CA-C	102.84	4.20	1.52
27	Z2	641	PHE	CA-C	102.81	4.20	1.52
25	X2	778	LYS	CA-C	99.57	4.11	1.52
27	Z2	626	GLY	N-CA	94.40	2.87	1.46
26	Y2	1456	LEU	CA-C	93.05	3.94	1.52
25	X2	727	SER	N-CA	93.00	3.32	1.46
27	Z2	120	GLU	CA-C	90.56	3.88	1.52
29	b1	7	SER	N-CA	90.55	3.27	1.46
26	Y1	1211	LEU	N-CA	90.47	3.27	1.46
26	Y1	1411	LEU	CA-C	86.95	3.79	1.52
25	X1	777	ASN	CA-C	86.67	3.78	1.52
27	Z1	123	PRO	N-CA	85.51	2.92	1.47
26	Y2	1332	LYS	CA-C	85.34	3.74	1.52
25	X1	789	GLU	N-CA	84.96	3.16	1.46
27	Z2	120	GLU	N-CA	84.65	3.15	1.46
27	Z2	7	LEU	CA-C	83.94	3.71	1.52
26	Y1	1333	ASP	N-CA	80.91	3.08	1.46
26	Y2	1456	LEU	N-CA	80.89	3.08	1.46
26	Y2	1117	TYR	CA-C	80.69	3.62	1.52
26	Y2	1211	LEU	CA-C	79.28	3.59	1.52
26	Y1	1238	PHE	CA-C	78.97	3.58	1.52
27	Z1	641	PHE	N-CA	78.66	3.03	1.46
27	Z2	641	PHE	N-CA	78.65	3.03	1.46
25	X2	727	SER	CA-C	77.77	3.55	1.52
27	Z2	123	PRO	N-CA	77.16	2.78	1.47
26	Y1	1320	LEU	CA-C	77.03	3.53	1.52
26	Y1	1456	LEU	CA-C	75.08	3.48	1.52
25	X2	777	ASN	CA-C	73.93	3.45	1.52
26	Y1	1118	ALA	N-CA	72.30	2.90	1.46
27	Z1	612	ILE	N-CA	71.76	2.89	1.46
27	Z2	452	SER	N-CA	71.71	2.89	1.46
27	Z2	289	PRO	N-CD	70.44	2.46	1.47
26	Y2	1321	MET	N-CA	70.28	2.87	1.46
27	Z1	289	PRO	N-CD	70.22	2.46	1.47
27	Z1	679	GLU	N-CA	69.59	2.85	1.46
27	Z2	669	THR	CA-C	68.58	3.31	1.52
25	X1	743	GLN	N-CA	65.22	2.76	1.46
27	Z1	23	PRO	CA-C	65.20	2.83	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	X2	778	LYS	N-CA	64.67	2.75	1.46
26	Y2	1429	LYS	CA-C	63.57	3.18	1.52
27	Z1	119	GLU	CA-C	62.72	3.16	1.52
25	X1	778	LYS	CA-C	62.56	3.15	1.52
26	Y2	1372	LYS	CA-C	61.67	3.13	1.52
27	Z1	120	GLU	CA-C	60.50	3.10	1.52
27	Z1	124	LYS	N-CA	60.43	2.67	1.46
25	X2	743	GLN	N-CA	59.42	2.65	1.46
27	Z1	668	GLU	CA-C	57.87	3.03	1.52
27	Z2	284	PRO	N-CD	57.35	2.28	1.47
27	Z1	284	PRO	N-CD	57.33	2.28	1.47
29	b2	7	SER	N-CA	56.91	2.60	1.46
27	Z1	678	ASN	CA-C	56.23	2.99	1.52
26	Y2	1238	PHE	CA-C	56.21	2.99	1.52
26	Y1	1456	LEU	N-CA	55.51	2.57	1.46
26	Y2	1412	GLU	N-CA	55.37	2.57	1.46
27	Z1	582	GLU	N-CA	53.29	2.52	1.46
27	Z2	582	GLU	N-CA	53.28	2.52	1.46
27	Z1	523	ASN	N-CA	53.26	2.52	1.46
26	Y2	1382	VAL	CA-C	51.78	2.87	1.52
29	b1	7	SER	CA-C	51.51	2.86	1.52
27	Z1	669	THR	N-CA	51.27	2.48	1.46
27	Z2	678	ASN	N-CA	50.21	2.46	1.46
26	Y2	1372	LYS	N-CA	49.51	2.45	1.46
26	Y2	1125	ASP	CA-C	49.45	2.81	1.52
27	Z1	94	PRO	N-CD	48.04	2.15	1.47
27	Z2	94	PRO	N-CD	47.90	2.15	1.47
29	b2	83	PRO	N-CD	47.55	2.14	1.47
27	Z2	642	ASN	CA-C	47.52	2.76	1.52
27	Z1	642	ASN	CA-C	47.40	2.76	1.52
26	Y1	1239	PHE	N-CA	47.05	2.40	1.46
26	Y1	1383	ALA	N-CA	46.03	2.38	1.46
25	X1	726	VAL	CA-C	45.82	2.72	1.52
29	b1	83	PRO	N-CD	44.58	2.10	1.47
26	Y2	1267	GLU	N-CA	43.70	2.33	1.46
27	Z2	451	SER	CA-C	-43.50	0.39	1.52
25	X2	788	ASP	N-CA	-43.10	0.60	1.46
25	X1	727	SER	N-CA	43.00	2.32	1.46
27	Z1	611	GLN	CA-C	42.78	2.64	1.52
27	Z2	16	SER	N-CA	42.29	2.31	1.46
27	Z2	283	GLY	CA-C	-41.87	0.84	1.51
27	Z1	283	GLY	CA-C	-41.85	0.84	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	581	PHE	CA-C	41.79	2.61	1.52
27	Z2	581	PHE	CA-C	41.75	2.61	1.52
27	Z2	643	SER	N-CA	40.36	2.27	1.46
27	Z1	643	SER	N-CA	40.25	2.26	1.46
27	Z1	24	ARG	N-CA	-39.92	0.66	1.46
29	b2	8	THR	N-CA	39.23	2.24	1.46
26	Y1	1371	VAL	CA-C	39.18	2.54	1.52
26	Y2	1455	ASN	CA-C	-35.76	0.59	1.52
26	Y2	1333	ASP	N-CA	35.64	2.17	1.46
27	Z2	669	THR	N-CA	34.48	2.15	1.46
29	b1	8	THR	N-CA	-33.50	0.79	1.46
27	Z2	523	ASN	N-CA	-33.04	0.80	1.46
27	Z1	16	SER	N-CA	32.70	2.11	1.46
26	Y1	1212	ARG	N-CA	32.50	2.11	1.46
27	Z2	15	ALA	CA-C	32.15	2.36	1.52
27	Z2	23	PRO	CA-C	30.07	2.13	1.52
27	Z2	123	PRO	N-CD	29.67	1.89	1.47
25	X2	742	GLN	CA-C	29.41	2.29	1.52
26	Y2	1239	PHE	N-CA	28.24	2.02	1.46
27	Z2	679	GLU	N-CA	27.73	2.01	1.46
27	Z1	284	PRO	N-CA	-26.87	1.01	1.47
27	Z2	284	PRO	N-CA	-26.71	1.01	1.47
26	Y1	1125	ASP	CA-C	-26.02	0.85	1.52
27	Z2	678	ASN	CA-C	-24.69	0.88	1.52
29	b2	7	SER	CA-C	-24.39	0.89	1.52
27	Z1	396	CYS	CB-SG	-24.14	1.41	1.82
27	Z2	396	CYS	CB-SG	-24.08	1.41	1.82
27	Z1	15	ALA	CA-C	-23.27	0.92	1.52
27	Z1	451	SER	CA-C	22.87	2.12	1.52
25	X2	726	VAL	CA-C	22.09	2.10	1.52
27	Z2	124	LYS	N-CA	-21.93	1.02	1.46
27	Z2	24	ARG	N-CA	21.77	1.89	1.46
26	Y1	1429	LYS	CA-C	-21.46	0.97	1.52
27	Z1	640	GLN	CA-C	21.32	2.08	1.52
27	Z2	640	GLN	CA-C	21.26	2.08	1.52
27	Z1	7	LEU	N-CA	20.94	1.88	1.46
27	Z1	8	SER	N-CA	20.53	1.87	1.46
27	Z2	213	PRO	N-CD	20.26	1.76	1.47
27	Z1	213	PRO	N-CD	20.14	1.76	1.47
25	X1	778	LYS	N-CA	20.05	1.86	1.46
27	Z1	289	PRO	N-CA	-19.99	1.13	1.47
27	Z2	283	GLY	N-CA	19.88	1.75	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	283	GLY	N-CA	19.84	1.75	1.46
27	Z2	289	PRO	N-CA	-19.73	1.13	1.47
27	Z2	611	GLN	CA-C	18.91	2.02	1.52
27	Z2	668	GLU	CA-C	18.06	2.00	1.52
27	Z2	123	PRO	CA-C	17.38	1.87	1.52
27	Z1	522	GLU	CA-C	17.28	1.97	1.52
26	Y2	1383	ALA	N-CA	16.14	1.78	1.46
26	Y2	1266	ALA	CA-C	-16.07	1.11	1.52
26	Y2	1320	LEU	CA-C	15.40	1.93	1.52
26	Y1	1455	ASN	CA-C	15.10	1.92	1.52
29	b2	9	PRO	N-CD	14.71	1.68	1.47
25	X1	788	ASP	CA-C	13.63	1.88	1.52
27	Z2	583	ALA	N-CA	-13.06	1.20	1.46
27	Z1	583	ALA	N-CA	-12.98	1.20	1.46
25	X2	788	ASP	CA-C	-12.97	1.19	1.52
27	Z2	119	GLU	CA-C	12.97	1.86	1.52
27	Z2	581	PHE	N-CA	12.65	1.71	1.46
27	Z1	581	PHE	N-CA	12.64	1.71	1.46
26	Y1	1332	LYS	CA-C	12.64	1.85	1.52
25	X2	789	GLU	N-CA	12.43	1.71	1.46
29	b1	55	ASN	N-CA	12.21	1.70	1.46
26	Y2	1430	ASP	N-CA	11.85	1.70	1.46
29	b2	55	ASN	N-CA	11.65	1.69	1.46
27	Z1	198	ASN	N-CA	11.32	1.69	1.46
27	Z2	198	ASN	N-CA	11.32	1.69	1.46
27	Z1	291	PRO	N-CD	11.28	1.63	1.47
27	Z2	291	PRO	N-CD	11.22	1.63	1.47
27	Z1	367	PRO	N-CD	10.89	1.63	1.47
27	Z2	211	PHE	N-CA	10.81	1.68	1.46
27	Z2	367	PRO	N-CD	10.74	1.62	1.47
27	Z1	211	PHE	N-CA	10.73	1.67	1.46
29	b2	56	THR	N-CA	-10.46	1.25	1.46
27	Z1	120	GLU	N-CA	10.22	1.66	1.46
27	Z1	37	PHE	N-CA	10.13	1.66	1.46
27	Z2	37	PHE	N-CA	10.05	1.66	1.46
27	Z2	440	MET	N-CA	9.71	1.65	1.46
27	Z1	440	MET	N-CA	9.68	1.65	1.46
29	b2	57	TRP	N-CA	9.67	1.65	1.46
29	b1	56	THR	CA-C	9.20	1.76	1.52
29	b2	86	PHE	N-CA	9.14	1.64	1.46
27	Z2	158	ASN	CA-C	-9.07	1.29	1.52
27	Z1	96	GLY	N-CA	9.05	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	96	GLY	N-CA	9.01	1.59	1.46
27	Z1	282	GLN	CA-C	8.94	1.76	1.52
27	Z2	282	GLN	CA-C	8.89	1.76	1.52
27	Z2	625	HIS	CA-C	-8.79	1.30	1.52
26	Y2	1411	LEU	CA-C	8.68	1.75	1.52
27	Z1	288	ASN	CA-C	-8.36	1.31	1.52
26	Y1	1321	MET	N-CA	8.34	1.63	1.46
27	Z2	288	ASN	CA-C	-8.34	1.31	1.52
27	Z2	166	LEU	N-CA	8.32	1.62	1.46
27	Z1	166	LEU	N-CA	8.25	1.62	1.46
26	Y2	1371	VAL	CA-C	8.25	1.74	1.52
29	b2	10	ILE	N-CA	8.23	1.62	1.46
27	Z2	361	LYS	N-CA	-8.22	1.29	1.46
27	Z1	91	MET	CA-C	-8.18	1.31	1.52
27	Z2	91	MET	CA-C	-8.14	1.31	1.52
27	Z1	361	LYS	N-CA	-8.13	1.30	1.46
27	Z2	39	GLN	N-CA	8.08	1.62	1.46
27	Z2	407	GLY	CA-C	-8.00	1.39	1.51
27	Z1	39	GLN	N-CA	7.96	1.62	1.46
29	b1	9	PRO	N-CD	7.96	1.58	1.47
27	Z1	407	GLY	CA-C	-7.95	1.39	1.51
27	Z1	53	LEU	CA-C	7.75	1.73	1.52
29	b1	9	PRO	CA-C	7.71	1.68	1.52
27	Z2	53	LEU	CA-C	7.68	1.73	1.52
27	Z1	45	TRP	N-CA	7.64	1.61	1.46
27	Z2	45	TRP	N-CA	7.55	1.61	1.46
29	b2	85	ALA	CA-C	-7.47	1.33	1.52
27	Z1	305	ILE	N-CA	7.43	1.61	1.46
27	Z2	305	ILE	N-CA	7.41	1.61	1.46
27	Z2	316	CYS	N-CA	7.39	1.61	1.46
27	Z1	99	ASN	CA-C	7.35	1.72	1.52
27	Z2	99	ASN	CA-C	7.32	1.72	1.52
27	Z2	71	VAL	N-CA	7.29	1.60	1.46
27	Z1	71	VAL	N-CA	7.28	1.60	1.46
27	Z1	316	CYS	N-CA	7.27	1.60	1.46
25	X1	742	GLN	CA-C	-7.25	1.34	1.52
29	b2	72	GLU	CD-OE2	7.24	1.33	1.25
27	Z1	340	ASP	N-CA	7.17	1.60	1.46
1	A2	891	GLY	C-N	7.14	1.50	1.34
27	Z2	340	ASP	N-CA	7.13	1.60	1.46
27	Z2	347	SER	CA-C	7.12	1.71	1.52
1	A1	891	GLY	C-N	7.12	1.50	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A4	891	GLY	C-N	7.11	1.50	1.34
1	A3	891	GLY	C-N	7.10	1.50	1.34
27	Z2	360	ILE	CA-C	7.05	1.71	1.52
27	Z2	42	ILE	N-CA	7.05	1.60	1.46
27	Z1	58	ASN	CA-C	7.04	1.71	1.52
27	Z1	42	ILE	N-CA	7.03	1.60	1.46
27	Z1	212	LEU	CA-C	7.02	1.71	1.52
27	Z2	36	VAL	CA-C	-7.00	1.34	1.52
27	Z2	58	ASN	CA-C	7.00	1.71	1.52
27	Z2	212	LEU	CA-C	6.99	1.71	1.52
27	Z2	329	LYS	CA-C	6.99	1.71	1.52
26	Y1	1267	GLU	N-CA	-6.99	1.32	1.46
27	Z2	91	MET	N-CA	6.95	1.60	1.46
27	Z1	360	ILE	CA-C	6.94	1.71	1.52
27	Z1	36	VAL	CA-C	-6.94	1.34	1.52
27	Z1	209	TYR	N-CA	6.91	1.60	1.46
27	Z1	347	SER	CA-C	6.90	1.70	1.52
29	b2	78	TYR	N-CA	6.90	1.60	1.46
27	Z1	329	LYS	CA-C	6.89	1.70	1.52
27	Z2	209	TYR	N-CA	6.86	1.60	1.46
27	Z1	91	MET	N-CA	6.83	1.60	1.46
27	Z2	182	ILE	CA-C	6.75	1.70	1.52
27	Z1	194	LEU	N-CA	6.68	1.59	1.46
27	Z1	182	ILE	CA-C	6.66	1.70	1.52
27	Z2	194	LEU	N-CA	6.66	1.59	1.46
27	Z2	45	TRP	CA-C	6.54	1.70	1.52
26	Y1	1276	ILE	N-CA	6.53	1.59	1.46
29	b1	35	TYR	CA-C	6.52	1.69	1.52
27	Z2	180	ASN	N-CA	6.50	1.59	1.46
27	Z2	197	LEU	N-CA	-6.48	1.33	1.46
29	b1	14	SER	CA-C	-6.47	1.36	1.52
27	Z2	419	THR	CA-C	-6.47	1.36	1.52
26	Y2	1276	ILE	N-CA	6.46	1.59	1.46
27	Z1	197	LEU	N-CA	-6.45	1.33	1.46
27	Z1	419	THR	CA-C	-6.45	1.36	1.52
27	Z1	411	GLU	CA-C	6.43	1.69	1.52
27	Z1	45	TRP	CA-C	6.43	1.69	1.52
27	Z2	424	PRO	N-CD	6.43	1.56	1.47
27	Z2	411	GLU	CA-C	6.41	1.69	1.52
27	Z2	165	VAL	CA-C	-6.40	1.36	1.52
29	b1	78	TYR	N-CA	6.38	1.59	1.46
27	Z1	424	PRO	N-CD	6.38	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	344	TYR	N-CA	6.38	1.59	1.46
27	Z1	180	ASN	N-CA	6.37	1.59	1.46
27	Z1	316	CYS	CA-C	6.35	1.69	1.52
27	Z1	165	VAL	CA-C	-6.31	1.36	1.52
27	Z1	344	TYR	N-CA	6.28	1.58	1.46
27	Z1	207	ALA	N-CA	-6.27	1.33	1.46
27	Z2	207	ALA	N-CA	-6.26	1.33	1.46
27	Z2	316	CYS	CA-C	6.25	1.69	1.52
29	b2	90	LYS	CA-C	6.25	1.69	1.52
27	Z2	180	ASN	CA-C	6.25	1.69	1.52
27	Z2	34	ARG	CA-C	6.23	1.69	1.52
27	Z1	180	ASN	CA-C	6.19	1.69	1.52
27	Z1	380	ILE	CA-C	-6.19	1.36	1.52
27	Z2	380	ILE	CA-C	-6.18	1.36	1.52
29	b2	58	HIS	CA-C	6.18	1.69	1.52
27	Z1	34	ARG	CA-C	6.16	1.69	1.52
29	b1	67	SER	CA-C	-6.12	1.37	1.52
29	b2	60	ILE	N-CA	6.12	1.58	1.46
29	b2	88	VAL	N-CA	6.11	1.58	1.46
27	Z1	70	HIS	CA-C	-6.11	1.37	1.52
27	Z2	70	HIS	CA-C	-6.10	1.37	1.52
27	Z1	150	THR	CA-C	6.10	1.68	1.52
27	Z1	159	SER	N-CA	6.09	1.58	1.46
27	Z2	279	ALA	CA-C	6.08	1.68	1.52
27	Z1	370	LEU	CA-C	-6.06	1.37	1.52
27	Z1	580	LYS	CA-C	-6.05	1.37	1.52
27	Z2	580	LYS	CA-C	-6.04	1.37	1.52
27	Z2	370	LEU	CA-C	-6.01	1.37	1.52
27	Z1	430	ASN	N-CA	-6.00	1.34	1.46
27	Z2	430	ASN	N-CA	-6.00	1.34	1.46
27	Z1	279	ALA	CA-C	6.00	1.68	1.52
27	Z2	150	THR	CA-C	5.99	1.68	1.52
25	X1	719	GLU	CD-OE1	5.95	1.32	1.25
27	Z1	310	GLY	CA-C	5.95	1.61	1.51
27	Z1	99	ASN	N-CA	-5.93	1.34	1.46
27	Z2	191	GLY	CA-C	5.92	1.61	1.51
27	Z1	191	GLY	CA-C	5.91	1.61	1.51
29	b1	88	VAL	N-CA	5.87	1.58	1.46
27	Z2	210	PRO	N-CA	-5.86	1.37	1.47
27	Z2	310	GLY	CA-C	5.84	1.61	1.51
27	Z1	339	VAL	CA-C	-5.84	1.37	1.52
27	Z1	210	PRO	N-CA	-5.83	1.37	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	404	PRO	N-CA	5.83	1.57	1.47
27	Z1	196	CYS	CA-C	5.82	1.68	1.52
27	Z1	404	PRO	N-CA	5.81	1.57	1.47
27	Z2	198	ASN	CA-C	-5.81	1.37	1.52
29	b2	55	ASN	CA-C	-5.81	1.37	1.52
27	Z2	99	ASN	N-CA	-5.81	1.34	1.46
27	Z1	198	ASN	CA-C	-5.80	1.37	1.52
27	Z2	196	CYS	CA-C	5.79	1.68	1.52
27	Z2	339	VAL	CA-C	-5.79	1.38	1.52
29	b2	80	TYR	CA-C	-5.78	1.38	1.52
27	Z2	408	LEU	N-CA	5.78	1.57	1.46
26	Y1	1283	ILE	N-CA	-5.77	1.34	1.46
29	b2	92	ALA	C-OXT	5.77	1.34	1.23
26	Y1	1394	GLY	CA-C	5.75	1.61	1.51
29	b2	67	SER	CA-C	-5.74	1.38	1.52
26	Y2	1283	ILE	N-CA	-5.74	1.34	1.46
25	X2	719	GLU	CD-OE1	5.73	1.31	1.25
27	Z1	420	ILE	N-CA	5.72	1.57	1.46
27	Z2	216	LEU	CA-C	5.72	1.67	1.52
27	Z2	268	GLY	N-CA	5.72	1.54	1.46
27	Z1	268	GLY	N-CA	5.71	1.54	1.46
27	Z1	408	LEU	CA-C	-5.71	1.38	1.52
27	Z1	216	LEU	CA-C	5.70	1.67	1.52
27	Z1	185	LEU	CA-C	5.70	1.67	1.52
27	Z1	408	LEU	N-CA	5.70	1.57	1.46
27	Z1	7	LEU	CA-C	-5.70	1.38	1.52
27	Z2	420	ILE	N-CA	5.67	1.57	1.46
26	Y2	1394	GLY	CA-C	5.67	1.60	1.51
27	Z2	408	LEU	CA-C	-5.65	1.38	1.52
27	Z2	185	LEU	CA-C	5.63	1.67	1.52
27	Z1	57	LEU	CA-C	-5.63	1.38	1.52
27	Z1	709	THR	N-CA	5.61	1.57	1.46
27	Z2	57	LEU	CA-C	-5.59	1.38	1.52
29	b2	59	VAL	N-CA	-5.58	1.35	1.46
27	Z2	355	LYS	CA-C	5.57	1.67	1.52
27	Z2	709	THR	N-CA	5.55	1.57	1.46
27	Z1	355	LYS	CA-C	5.54	1.67	1.52
27	Z1	210	PRO	CA-C	5.45	1.63	1.52
27	Z1	713	GLN	C-OXT	5.45	1.33	1.23
27	Z2	183	THR	N-CA	-5.44	1.35	1.46
27	Z1	183	THR	N-CA	-5.43	1.35	1.46
29	b1	58	HIS	CA-C	5.41	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	44	ARG	CA-C	-5.40	1.39	1.52
27	Z2	159	SER	N-CA	5.40	1.57	1.46
29	b1	80	TYR	CA-C	-5.40	1.39	1.52
27	Z2	210	PRO	CA-C	5.39	1.63	1.52
29	b1	12	LYS	CA-C	5.39	1.67	1.52
27	Z2	290	PHE	CA-C	5.37	1.67	1.52
27	Z1	44	ARG	CA-C	-5.37	1.39	1.52
27	Z1	333	MET	CA-C	5.36	1.66	1.52
27	Z2	362	SER	CA-C	-5.36	1.39	1.52
27	Z2	713	GLN	C-OXT	5.35	1.33	1.23
27	Z1	238	ASP	N-CA	5.34	1.57	1.46
29	b1	83	PRO	N-CA	-5.34	1.38	1.47
27	Z1	362	SER	CA-C	-5.33	1.39	1.52
27	Z2	238	ASP	N-CA	5.33	1.57	1.46
27	Z2	176	ASP	N-CA	5.33	1.57	1.46
25	X1	823	LYS	C-OXT	5.31	1.33	1.23
27	Z2	101	GLU	CD-OE1	5.30	1.31	1.25
27	Z2	262	ASN	CA-C	-5.30	1.39	1.52
27	Z1	290	PHE	CA-C	5.29	1.66	1.52
25	X2	823	LYS	C-OXT	5.29	1.33	1.23
26	Y2	1456	LEU	C-O	-5.29	1.13	1.23
27	Z1	112	PHE	CA-C	-5.28	1.39	1.52
26	Y1	1302	ASP	N-CA	5.28	1.56	1.46
27	Z1	94	PRO	CA-C	5.27	1.63	1.52
27	Z2	333	MET	CA-C	5.26	1.66	1.52
27	Z2	627	GLU	CD-OE1	5.26	1.31	1.25
27	Z1	84	ASN	CA-C	-5.26	1.39	1.52
27	Z1	262	ASN	CA-C	-5.25	1.39	1.52
26	Y2	1302	ASP	N-CA	5.25	1.56	1.46
27	Z1	360	ILE	N-CA	5.25	1.56	1.46
27	Z2	360	ILE	N-CA	5.25	1.56	1.46
27	Z1	421	GLU	N-CA	-5.24	1.35	1.46
27	Z2	112	PHE	CA-C	-5.24	1.39	1.52
26	Y1	1121	GLY	N-CA	5.24	1.53	1.46
29	b2	83	PRO	N-CA	-5.24	1.38	1.47
27	Z1	627	GLU	CD-OE1	5.23	1.31	1.25
29	b1	85	ALA	CA-C	5.23	1.66	1.52
27	Z1	124	LYS	CA-C	-5.22	1.39	1.52
29	b1	57	TRP	N-CA	5.22	1.56	1.46
29	b2	56	THR	CA-C	5.22	1.66	1.52
27	Z2	94	PRO	CA-C	5.21	1.63	1.52
27	Z2	382	GLN	CA-C	5.21	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	382	GLN	CA-C	5.20	1.66	1.52
27	Z1	668	GLU	N-CA	-5.20	1.35	1.46
27	Z1	176	ASP	N-CA	5.20	1.56	1.46
27	Z2	124	LYS	CA-C	-5.19	1.39	1.52
27	Z1	95	TRP	N-CA	-5.19	1.35	1.46
27	Z2	84	ASN	CA-C	-5.18	1.39	1.52
27	Z2	133	HIS	CA-C	5.18	1.66	1.52
27	Z2	421	GLU	N-CA	-5.17	1.36	1.46
27	Z2	126	SER	N-CA	-5.17	1.36	1.46
27	Z2	95	TRP	N-CA	-5.16	1.36	1.46
29	b1	92	ALA	C-OXT	5.15	1.33	1.23
27	Z2	668	GLU	N-CA	-5.14	1.36	1.46
29	b1	60	ILE	N-CA	5.13	1.56	1.46
27	Z1	133	HIS	CA-C	5.13	1.66	1.52
27	Z2	304	THR	CA-C	-5.13	1.39	1.52
27	Z1	200	THR	CA-C	5.12	1.66	1.52
27	Z1	126	SER	N-CA	-5.12	1.36	1.46
27	Z2	270	VAL	CA-C	-5.11	1.39	1.52
27	Z1	101	GLU	CG-CD	5.11	1.59	1.51
27	Z1	270	VAL	CA-C	-5.10	1.39	1.52
26	Y1	1306	ILE	N-CA	-5.10	1.36	1.46
29	b2	52	LYS	CA-C	5.09	1.66	1.52
27	Z1	304	THR	CA-C	-5.09	1.39	1.52
26	Y2	1306	ILE	N-CA	-5.08	1.36	1.46
27	Z2	367	PRO	N-CA	5.07	1.55	1.47
27	Z2	50	THR	CA-C	5.06	1.66	1.52
26	Y1	1435	LYS	N-CA	5.06	1.56	1.46
27	Z2	359	GLU	CA-C	-5.04	1.39	1.52
27	Z2	101	GLU	CG-CD	5.03	1.59	1.51
27	Z1	196	CYS	N-CA	5.03	1.56	1.46
27	Z1	80	LEU	N-CA	5.03	1.56	1.46
27	Z2	332	GLU	CA-C	5.02	1.66	1.52
27	Z1	359	GLU	CA-C	-5.02	1.40	1.52
27	Z2	200	THR	CA-C	5.02	1.66	1.52

All (1383) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	123	PRO	CA-N-CD	-66.84	17.93	111.50
27	Z2	15	ALA	N-CA-CB	-56.85	30.51	110.10
27	Z1	23	PRO	CA-N-CD	-54.13	35.72	111.50
27	Z2	23	PRO	CA-N-CD	-50.65	40.59	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y2	1117	TYR	CA-C-N	-49.82	7.60	117.20
26	Y1	1125	ASP	CA-C-N	-48.84	9.75	117.20
25	X1	637	LEU	CA-C-N	-46.81	14.21	117.20
27	Z1	124	LYS	CB-CA-C	-46.06	18.27	110.40
27	Z2	522	GLU	CA-C-N	-45.89	16.24	117.20
26	Y1	1382	VAL	CA-C-N	-45.78	16.48	117.20
25	X2	637	LEU	CA-C-N	-44.85	18.52	117.20
26	Y2	1321	MET	CB-CA-C	-44.64	21.12	110.40
26	Y1	1456	LEU	CB-CA-C	-44.47	25.70	110.20
27	Z2	625	HIS	CA-C-O	-44.46	26.73	120.10
26	Y2	1211	LEU	CA-C-N	-44.02	20.36	117.20
27	Z2	7	LEU	CA-C-N	-43.98	20.45	117.20
25	X2	742	GLN	CA-C-O	-42.79	30.24	120.10
25	X1	777	ASN	C-N-CA	-42.55	15.32	121.70
27	Z1	23	PRO	N-CD-CG	41.91	166.06	103.20
25	X1	742	GLN	CA-C-O	-41.83	32.25	120.10
27	Z2	15	ALA	CB-CA-C	41.50	172.35	110.10
26	Y1	1238	PHE	C-N-CA	-40.38	20.76	121.70
27	Z1	678	ASN	CA-C-O	-40.24	35.60	120.10
27	Z1	625	HIS	CA-C-N	-40.08	36.05	116.20
26	Y1	1125	ASP	C-N-CA	-39.64	22.60	121.70
26	Y2	1321	MET	N-CA-CB	-39.42	39.64	110.60
26	Y1	1411	LEU	C-N-CA	-38.86	24.55	121.70
25	X2	777	ASN	C-N-CA	-38.81	24.66	121.70
17	Q1	626	ASN	CB-CG-OD1	-38.30	45.00	121.60
17	Q2	626	ASN	CB-CG-OD1	-38.27	45.07	121.60
26	Y1	1117	TYR	CA-C-N	-37.86	33.91	117.20
26	Y2	1211	LEU	N-CA-C	-37.52	9.69	111.00
25	X2	742	GLN	N-CA-C	-37.43	9.94	111.00
27	Z2	123	PRO	CA-N-CD	-37.33	59.23	111.50
27	Z1	678	ASN	N-CA-C	-37.25	10.42	111.00
27	Z1	451	SER	C-N-CA	-37.08	29.00	121.70
26	Y2	1266	ALA	CB-CA-C	36.66	165.08	110.10
25	X1	788	ASP	CA-C-N	-36.19	37.59	117.20
26	Y1	1332	LYS	CA-C-N	-35.97	38.06	117.20
25	X2	727	SER	N-CA-CB	35.89	164.34	110.50
26	Y2	1332	LYS	CA-C-N	-35.88	38.27	117.20
27	Z2	452	SER	N-CA-C	-35.79	14.37	111.00
25	X1	742	GLN	N-CA-C	-35.68	14.68	111.00
26	Y2	1125	ASP	C-N-CA	-35.48	33.01	121.70
26	Y1	1126	LEU	N-CA-C	-35.33	15.62	111.00
26	Y1	1371	VAL	C-N-CA	-35.30	33.44	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y1	1320	LEU	C-N-CA	-35.18	33.75	121.70
25	X1	637	LEU	N-CA-C	-34.97	16.58	111.00
27	Z2	611	GLN	C-N-CA	-34.68	35.00	121.70
26	Y2	1238	PHE	C-N-CA	-34.63	35.12	121.70
26	Y2	1117	TYR	N-CA-C	-34.39	18.15	111.00
27	Z1	668	GLU	C-N-CA	-34.11	36.42	121.70
26	Y1	1429	LYS	CA-C-N	-33.86	42.70	117.20
25	X2	637	LEU	N-CA-C	-33.83	19.67	111.00
27	Z2	23	PRO	N-CD-CG	33.72	153.78	103.20
27	Z2	7	LEU	N-CA-C	-33.39	20.84	111.00
26	Y1	1412	GLU	CB-CA-C	-33.27	43.85	110.40
27	Z2	678	ASN	CA-C-O	-33.26	50.26	120.10
26	Y2	1212	ARG	N-CA-CB	33.00	170.00	110.60
27	Z1	452	SER	N-CA-C	-32.84	22.34	111.00
27	Z2	522	GLU	N-CA-C	-32.53	23.16	111.00
27	Z2	642	ASN	CA-C-N	-32.14	46.48	117.20
27	Z1	642	ASN	CA-C-N	-32.11	46.56	117.20
25	X1	638	ASP	N-CA-CB	31.98	168.16	110.60
27	Z2	16	SER	N-CA-C	-31.96	24.70	111.00
27	Z2	640	GLN	C-N-CA	-31.96	41.79	121.70
27	Z1	640	GLN	C-N-CA	-31.93	41.87	121.70
26	Y1	1117	TYR	N-CA-C	-31.93	24.79	111.00
26	Y2	1430	ASP	N-CA-CB	-31.80	53.36	110.60
27	Z1	16	SER	N-CA-CB	31.61	157.91	110.50
27	Z1	120	GLU	N-CA-C	-31.53	25.87	111.00
27	Z1	23	PRO	N-CA-C	-31.38	30.52	112.10
27	Z2	120	GLU	N-CA-C	-30.91	27.55	111.00
27	Z2	119	GLU	C-N-CA	-30.86	44.55	121.70
25	X1	788	ASP	N-CA-C	-30.78	27.90	111.00
27	Z2	23	PRO	N-CA-C	-30.61	32.53	112.10
25	X2	778	LYS	N-CA-C	-30.59	28.39	111.00
25	X2	788	ASP	N-CA-C	-30.57	28.47	111.00
27	Z2	625	HIS	CB-CA-C	30.24	170.88	110.40
25	X1	727	SER	CB-CA-C	-29.86	53.37	110.10
26	Y2	1266	ALA	CA-C-O	-29.65	57.84	120.10
27	Z2	642	ASN	N-CA-C	-29.63	30.99	111.00
27	Z1	642	ASN	N-CA-C	-29.63	30.99	111.00
26	Y2	1126	LEU	N-CA-C	-29.63	31.00	111.00
27	Z2	523	ASN	N-CA-CB	-29.61	57.30	110.60
27	Z1	124	LYS	N-CA-CB	29.48	163.66	110.60
27	Z1	641	PHE	N-CA-C	-29.47	31.42	111.00
27	Z2	641	PHE	N-CA-C	-29.47	31.43	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	611	GLN	C-N-CA	-29.11	48.93	121.70
29	b2	82	GLY	C-N-CD	-28.95	56.91	120.60
27	Z2	93	VAL	C-N-CD	-28.95	56.92	120.60
27	Z1	93	VAL	C-N-CD	-28.93	56.95	120.60
27	Z2	123	PRO	N-CD-CG	28.89	146.53	103.20
26	Y1	1382	VAL	N-CA-C	-28.79	33.27	111.00
29	b2	7	SER	CB-CA-C	28.27	163.81	110.10
27	Z2	678	ASN	N-CA-CB	-28.11	60.00	110.60
29	b1	55	ASN	CB-CA-C	-28.07	54.26	110.40
26	Y1	1372	LYS	CB-CA-C	27.95	166.30	110.40
25	X2	638	ASP	N-CA-CB	27.54	160.16	110.60
26	Y2	1455	ASN	CA-C-N	-27.40	56.91	117.20
29	b1	82	GLY	C-N-CD	-27.38	60.36	120.60
25	X2	788	ASP	CB-CA-C	27.37	165.14	110.40
29	b1	55	ASN	N-CA-CB	26.99	159.18	110.60
27	Z2	289	PRO	CA-N-CD	-26.77	74.03	111.50
26	Y2	1411	LEU	CB-CA-C	-26.66	59.54	110.20
27	Z1	289	PRO	CA-N-CD	-26.65	74.19	111.50
27	Z2	523	ASN	CB-CA-C	26.47	163.33	110.40
27	Z1	16	SER	N-CA-C	-26.27	40.06	111.00
27	Z1	123	PRO	CA-C-O	-25.78	58.34	120.20
25	X1	788	ASP	N-CA-CB	-25.69	64.36	110.60
26	Y2	1382	VAL	CA-C-N	-25.67	60.72	117.20
26	Y2	1372	LYS	N-CA-C	-25.58	41.94	111.00
26	Y2	1456	LEU	N-CA-C	-25.53	42.06	111.00
27	Z2	669	THR	N-CA-CB	25.50	158.75	110.30
26	Y2	1455	ASN	CA-C-O	25.37	173.37	120.10
29	b2	7	SER	CA-C-O	-25.29	66.99	120.10
26	Y1	1332	LYS	CB-CA-C	25.24	160.88	110.40
27	Z2	7	LEU	C-N-CA	-25.20	58.70	121.70
27	Z1	522	GLU	CA-C-N	-25.08	62.02	117.20
26	Y1	1429	LYS	N-CA-C	-24.94	43.65	111.00
25	X1	726	VAL	C-N-CA	-24.92	59.41	121.70
26	Y2	1239	PHE	N-CA-C	-24.83	43.95	111.00
25	X2	797	LEU	N-CA-CB	24.71	159.81	110.40
25	X2	726	VAL	C-N-CA	-24.63	60.13	121.70
29	b1	7	SER	N-CA-C	-24.45	44.98	111.00
26	Y2	1239	PHE	CB-CA-C	24.38	159.17	110.40
26	Y1	1118	ALA	CB-CA-C	-24.14	73.88	110.10
27	Z1	123	PRO	N-CA-C	-24.07	49.53	112.10
27	Z1	15	ALA	CA-C-O	-24.04	69.61	120.10
26	Y1	1321	MET	N-CA-C	-23.97	46.28	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y2	1212	ARG	CB-CA-C	-23.88	62.63	110.40
26	Y2	1125	ASP	CB-CA-C	-23.66	63.07	110.40
27	Z1	625	HIS	N-CA-CB	-23.37	68.53	110.60
26	Y2	1382	VAL	N-CA-C	-23.24	48.26	111.00
26	Y2	1332	LYS	N-CA-C	-23.08	48.68	111.00
27	Z2	668	GLU	CB-CA-C	-22.87	64.66	110.40
26	Y1	1118	ALA	N-CA-CB	22.76	141.96	110.10
27	Z1	123	PRO	CB-CA-C	22.72	168.79	112.00
26	Y1	1211	LEU	N-CA-CB	-22.69	65.02	110.40
27	Z1	581	PHE	N-CA-C	-22.51	50.23	111.00
27	Z2	581	PHE	N-CA-C	-22.49	50.29	111.00
26	Y1	1266	ALA	N-CA-CB	22.43	141.50	110.10
27	Z1	94	PRO	CA-N-CD	-21.95	80.77	111.50
27	Z2	94	PRO	CA-N-CD	-21.93	80.81	111.50
26	Y2	1333	ASP	CB-CA-C	-21.89	66.61	110.40
27	Z2	15	ALA	C-N-CA	-21.87	67.02	121.70
26	Y2	1430	ASP	N-CA-C	21.86	170.03	111.00
27	Z1	611	GLN	CB-CA-C	21.85	154.10	110.40
27	Z2	123	PRO	N-CA-C	-21.85	55.30	112.10
26	Y1	1372	LYS	N-CA-C	-21.74	52.30	111.00
26	Y1	1412	GLU	N-CA-CB	-21.73	71.48	110.60
26	Y1	1429	LYS	CA-C-O	-21.60	74.74	120.10
27	Z2	7	LEU	N-CA-CB	-21.58	67.25	110.40
26	Y1	1332	LYS	N-CA-C	-21.53	52.86	111.00
26	Y1	1239	PHE	CB-CA-C	21.50	153.41	110.40
25	X2	638	ASP	CB-CA-C	-21.50	67.40	110.40
26	Y2	1429	LYS	N-CA-C	-21.49	52.99	111.00
27	Z2	284	PRO	N-CA-CB	21.48	129.07	103.30
27	Z1	284	PRO	N-CA-CB	21.47	129.06	103.30
27	Z2	451	SER	CA-C-O	-21.46	75.03	120.10
25	X2	727	SER	N-CA-C	-21.45	53.10	111.00
26	Y1	1239	PHE	N-CA-C	-21.36	53.31	111.00
26	Y2	1333	ASP	N-CA-CB	21.31	148.96	110.60
27	Z1	288	ASN	CB-CA-C	21.25	152.90	110.40
27	Z2	288	ASN	CB-CA-C	21.21	152.83	110.40
27	Z1	522	GLU	CB-CA-C	-20.87	68.66	110.40
27	Z1	612	ILE	CB-CA-C	-20.86	69.89	111.60
27	Z1	641	PHE	N-CA-CB	20.80	148.05	110.60
27	Z2	641	PHE	N-CA-CB	20.75	147.96	110.60
27	Z1	94	PRO	N-CA-CB	20.70	128.14	103.30
27	Z2	94	PRO	N-CA-CB	20.70	128.14	103.30
27	Z2	23	PRO	N-CA-CB	20.64	128.07	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	23	PRO	CA-C-N	-20.48	72.14	117.20
25	X2	726	VAL	CB-CA-C	-20.41	72.62	111.40
27	Z2	123	PRO	CA-C-O	-20.39	71.27	120.20
29	b2	72	GLU	CB-CA-C	-20.27	69.87	110.40
29	b2	55	ASN	CB-CA-C	-20.18	70.03	110.40
27	Z2	678	ASN	CA-C-N	20.13	161.48	117.20
29	b1	83	PRO	N-CA-CB	20.04	127.35	103.30
27	Z2	612	ILE	N-CA-C	-20.00	56.99	111.00
27	Z2	123	PRO	CA-C-N	19.95	161.09	117.20
27	Z2	625	HIS	N-CA-C	-19.91	57.26	111.00
29	b2	83	PRO	N-CA-CB	19.84	127.11	103.30
29	b1	55	ASN	CA-C-O	19.55	161.15	120.10
26	Y2	1321	MET	N-CA-C	-19.53	58.28	111.00
26	Y1	1456	LEU	N-CA-C	-19.52	58.29	111.00
25	X1	788	ASP	CA-C-O	19.44	160.92	120.10
26	Y1	1429	LYS	N-CA-CB	19.36	145.45	110.60
27	Z2	582	GLU	CA-C-O	-19.10	79.99	120.10
27	Z1	582	GLU	CA-C-O	-19.09	80.01	120.10
27	Z2	612	ILE	CB-CA-C	-19.09	73.42	111.60
27	Z1	522	GLU	N-CA-C	-19.08	59.47	111.00
29	b1	55	ASN	CA-C-N	-18.93	75.56	117.20
26	Y2	1429	LYS	CB-CA-C	18.90	148.21	110.40
26	Y2	1412	GLU	CB-CA-C	-18.86	72.69	110.40
27	Z2	284	PRO	CA-N-CD	-18.84	85.12	111.50
26	Y2	1125	ASP	N-CA-C	18.80	161.75	111.00
26	Y2	1320	LEU	N-CA-C	18.75	161.63	111.00
27	Z1	284	PRO	CA-N-CD	-18.73	85.27	111.50
27	Z1	680	TRP	N-CA-CB	18.66	144.19	110.60
27	Z2	611	GLN	CB-CA-C	18.47	147.34	110.40
26	Y1	1332	LYS	CA-C-O	18.27	158.47	120.10
26	Y2	1126	LEU	CB-CA-C	18.22	144.81	110.20
26	Y2	1372	LYS	N-CA-CB	18.12	143.21	110.60
27	Z1	283	GLY	N-CA-C	17.99	158.07	113.10
27	Z1	625	HIS	CA-C-O	17.98	157.86	120.10
29	b2	83	PRO	CA-N-CD	-17.97	86.34	111.50
27	Z2	283	GLY	N-CA-C	17.96	157.99	113.10
27	Z1	669	THR	N-CA-C	-17.87	62.74	111.00
25	X2	797	LEU	CB-CA-C	-17.84	76.31	110.20
26	Y1	1455	ASN	N-CA-C	17.81	159.08	111.00
29	b1	83	PRO	CA-N-CD	-17.68	86.75	111.50
26	Y1	1383	ALA	N-CA-C	-17.67	63.28	111.00
26	Y2	1382	VAL	CA-C-O	17.66	157.19	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	625	HIS	CB-CA-C	-17.57	75.27	110.40
26	Y1	1117	TYR	CA-C-O	17.54	156.94	120.10
25	X2	777	ASN	CB-CA-C	17.49	145.39	110.40
25	X1	788	ASP	CB-CA-C	-17.36	75.69	110.40
27	Z1	119	GLU	C-N-CA	-17.26	78.56	121.70
26	Y1	1429	LYS	CB-CA-C	17.01	144.41	110.40
27	Z2	16	SER	N-CA-CB	16.96	135.95	110.50
27	Z2	210	PRO	CB-CA-C	-16.90	69.74	112.00
27	Z1	678	ASN	N-CA-CB	-16.89	80.20	110.60
27	Z1	210	PRO	CB-CA-C	-16.87	69.82	112.00
27	Z1	679	GLU	N-CA-C	-16.78	65.70	111.00
25	X2	637	LEU	CB-CA-C	16.72	141.97	110.20
27	Z1	642	ASN	CB-CA-C	16.68	143.76	110.40
27	Z2	642	ASN	CB-CA-C	16.68	143.76	110.40
25	X1	637	LEU	CB-CA-C	16.52	141.58	110.20
27	Z2	124	LYS	N-CA-CB	-16.50	80.90	110.60
27	Z1	625	HIS	N-CA-C	-16.38	66.77	111.00
27	Z1	612	ILE	N-CA-C	-16.36	66.84	111.00
27	Z2	582	GLU	N-CA-C	-16.34	66.88	111.00
27	Z1	582	GLU	N-CA-C	-16.33	66.91	111.00
27	Z2	452	SER	CB-CA-C	-16.29	79.15	110.10
26	Y2	1383	ALA	CB-CA-C	16.23	134.44	110.10
27	Z2	123	PRO	CB-CA-C	16.23	152.57	112.00
29	b2	56	THR	CB-CA-C	-16.21	67.83	111.60
27	Z1	123	PRO	N-CD-CG	-16.16	78.96	103.20
26	Y2	1412	GLU	N-CA-C	-16.05	67.67	111.00
25	X1	778	LYS	N-CA-C	-16.03	67.71	111.00
26	Y2	1371	VAL	C-N-CA	-16.02	81.66	121.70
27	Z2	582	GLU	N-CA-CB	15.93	139.28	110.60
27	Z1	282	GLN	C-N-CA	-15.93	88.86	122.30
27	Z1	582	GLU	N-CA-CB	15.91	139.24	110.60
27	Z2	282	GLN	C-N-CA	-15.87	88.97	122.30
27	Z2	40	ASP	N-CA-CB	-15.87	82.04	110.60
27	Z1	40	ASP	N-CA-CB	-15.86	82.06	110.60
27	Z1	209	TYR	N-CA-CB	-15.85	82.06	110.60
27	Z2	209	TYR	N-CA-CB	-15.84	82.09	110.60
26	Y2	1332	LYS	CA-C-O	15.73	153.14	120.10
26	Y1	1412	GLU	N-CA-C	-15.62	68.81	111.00
26	Y1	1117	TYR	C-N-CA	15.61	160.73	121.70
27	Z2	452	SER	N-CA-CB	-15.59	87.11	110.50
27	Z1	289	PRO	N-CA-CB	15.59	122.00	103.30
27	Z2	289	PRO	N-CA-CB	15.48	121.88	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	X1	726	VAL	CB-CA-C	-15.37	82.20	111.40
27	Z2	158	ASN	CA-C-O	-15.29	87.98	120.10
27	Z1	680	TRP	CB-CA-C	-15.17	80.06	110.40
29	b2	55	ASN	N-CA-CB	15.14	137.85	110.60
27	Z1	643	SER	CB-CA-C	15.13	138.85	110.10
27	Z2	643	SER	CB-CA-C	15.09	138.76	110.10
27	Z2	278	LEU	CB-CA-C	-15.05	81.61	110.20
26	Y2	1371	VAL	CB-CA-C	-15.04	82.81	111.40
27	Z1	278	LEU	CB-CA-C	-15.01	81.69	110.20
26	Y2	1332	LYS	CB-CA-C	14.99	140.38	110.40
26	Y2	1320	LEU	CB-CA-C	-14.94	81.81	110.20
27	Z2	120	GLU	N-CA-CB	14.92	137.46	110.60
27	Z2	98	SER	N-CA-CB	14.92	132.88	110.50
27	Z1	451	SER	CB-CA-C	14.89	138.38	110.10
27	Z1	452	SER	N-CA-CB	-14.87	88.20	110.50
27	Z1	75	THR	N-CA-CB	14.85	138.51	110.30
27	Z1	98	SER	N-CA-CB	14.82	132.73	110.50
26	Y1	1456	LEU	N-CA-CB	-14.80	80.79	110.40
27	Z2	75	THR	N-CA-CB	14.76	138.35	110.30
27	Z1	669	THR	N-CA-CB	14.74	138.31	110.30
27	Z1	679	GLU	N-CA-CB	-14.73	84.09	110.60
29	b1	77	VAL	CB-CA-C	-14.71	83.44	111.40
25	X1	743	GLN	CB-CA-C	14.68	139.75	110.40
27	Z1	15	ALA	CA-C-N	14.63	149.38	117.20
25	X2	743	GLN	CB-CA-C	14.61	139.62	110.40
26	Y1	1211	LEU	CB-CA-C	14.59	137.91	110.20
27	Z2	158	ASN	CA-C-N	14.59	149.29	117.20
27	Z2	451	SER	CA-C-N	-14.52	85.25	117.20
25	X2	788	ASP	N-CA-CB	14.51	136.72	110.60
26	Y1	1456	LEU	CA-C-O	-14.38	89.89	120.10
27	Z1	209	TYR	CA-C-O	14.33	150.19	120.10
27	Z2	209	TYR	CA-C-O	14.29	150.12	120.10
27	Z2	678	ASN	CB-CA-C	-14.22	81.95	110.40
27	Z1	8	SER	N-CA-CB	14.18	131.76	110.50
26	Y1	1455	ASN	CB-CA-C	-14.14	82.13	110.40
29	b2	77	VAL	CB-CA-C	-14.14	84.54	111.40
26	Y2	1266	ALA	N-CA-C	-14.08	72.98	111.00
25	X2	743	GLN	N-CA-CB	-14.03	85.35	110.60
26	Y2	1382	VAL	CB-CA-C	-14.00	84.80	111.40
27	Z1	167	ASN	N-CA-CB	-13.97	85.45	110.60
27	Z2	167	ASN	N-CA-CB	-13.92	85.55	110.60
29	b2	55	ASN	CA-C-O	13.88	149.25	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	123	PRO	N-CA-CB	13.87	119.94	103.30
27	Z1	642	ASN	CA-C-O	13.84	149.17	120.10
27	Z2	642	ASN	CA-C-O	13.82	149.11	120.10
27	Z1	201	GLU	CB-CA-C	-13.80	82.79	110.40
26	Y2	1382	VAL	N-CA-CB	-13.79	81.16	111.50
27	Z2	201	GLU	CB-CA-C	-13.77	82.85	110.40
27	Z1	522	GLU	CA-C-O	13.72	148.92	120.10
25	X1	743	GLN	N-CA-CB	-13.67	85.99	110.60
26	Y1	1126	LEU	CB-CA-C	-13.66	84.25	110.20
27	Z2	582	GLU	CA-C-N	13.65	147.24	117.20
27	Z1	138	ARG	N-CA-CB	13.62	135.11	110.60
27	Z2	138	ARG	N-CA-CB	13.61	135.10	110.60
27	Z1	582	GLU	CA-C-N	13.60	147.12	117.20
26	Y1	1120	SER	CB-CA-C	-13.47	84.50	110.10
27	Z2	640	GLN	CB-CA-C	13.45	137.31	110.40
27	Z1	283	GLY	CA-C-O	-13.45	96.39	120.60
25	X2	788	ASP	CA-C-O	-13.44	91.87	120.10
26	Y2	1239	PHE	CA-C-O	-13.44	91.87	120.10
27	Z1	640	GLN	CB-CA-C	13.43	137.27	110.40
27	Z1	24	ARG	N-CA-CB	-13.43	86.42	110.60
27	Z1	24	ARG	CB-CA-C	-13.40	83.60	110.40
29	b2	55	ASN	C-N-CA	-13.39	88.22	121.70
27	Z2	283	GLY	CA-C-O	-13.38	96.52	120.60
26	Y1	1239	PHE	CA-C-O	-13.31	92.15	120.10
29	b2	55	ASN	CA-C-N	-13.29	87.96	117.20
27	Z2	7	LEU	CB-CA-C	-13.19	85.14	110.20
26	Y1	1125	ASP	CB-CA-C	-13.14	84.12	110.40
27	Z1	452	SER	CA-C-O	-13.13	92.52	120.10
27	Z2	346	ASN	N-CA-CB	-13.10	87.03	110.60
26	Y1	1266	ALA	CA-C-N	13.08	145.97	117.20
27	Z1	346	ASN	N-CA-CB	-13.05	87.11	110.60
26	Y1	1429	LYS	O-C-N	-13.03	101.85	122.70
27	Z1	342	TYR	CB-CA-C	-13.02	84.35	110.40
26	Y2	1429	LYS	O-C-N	-13.00	101.90	122.70
29	b2	7	SER	N-CA-C	-12.99	75.92	111.00
26	Y2	1266	ALA	O-C-N	-12.98	101.93	122.70
27	Z2	23	PRO	CA-C-O	12.98	151.36	120.20
27	Z2	342	TYR	CB-CA-C	-12.98	84.44	110.40
27	Z1	124	LYS	N-CA-C	12.96	145.99	111.00
26	Y1	1211	LEU	O-C-N	-12.96	101.97	122.70
27	Z1	678	ASN	CA-C-N	-12.92	88.78	117.20
29	b1	7	SER	C-N-CA	-12.91	89.42	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	522	GLU	C-N-CA	-12.86	89.54	121.70
26	Y2	1270	LEU	CB-CA-C	12.81	134.54	110.20
29	b1	56	THR	CB-CA-C	-12.73	77.23	111.60
26	Y1	1270	LEU	CB-CA-C	12.71	134.36	110.20
26	Y1	1266	ALA	CA-C-O	-12.60	93.64	120.10
26	Y2	1120	SER	CB-CA-C	-12.59	86.18	110.10
27	Z1	451	SER	N-CA-CB	-12.54	91.68	110.50
27	Z1	348	LEU	N-CA-CB	12.44	135.27	110.40
27	Z2	348	LEU	N-CA-CB	12.41	135.23	110.40
26	Y1	1239	PHE	N-CA-CB	12.40	132.92	110.60
27	Z1	582	GLU	CB-CA-C	12.39	135.19	110.40
27	Z2	582	GLU	CB-CA-C	12.37	135.13	110.40
27	Z1	15	ALA	N-CA-C	12.32	144.28	111.00
27	Z1	7	LEU	CA-C-N	-12.27	90.22	117.20
27	Z2	410	PHE	CB-CA-C	-12.26	85.89	110.40
27	Z2	452	SER	CA-C-O	-12.25	94.38	120.10
27	Z2	678	ASN	N-CA-C	-12.25	77.94	111.00
27	Z1	410	PHE	CB-CA-C	-12.24	85.91	110.40
27	Z2	669	THR	N-CA-C	-12.24	77.94	111.00
27	Z2	582	GLU	C-N-CA	12.23	152.28	121.70
26	Y2	1117	TYR	C-N-CA	12.23	152.27	121.70
27	Z1	137	TYR	N-CA-CB	-12.20	88.65	110.60
27	Z1	279	ALA	N-CA-CB	-12.19	93.04	110.10
25	X1	705	ASP	CB-CA-C	12.18	134.76	110.40
27	Z2	137	TYR	N-CA-CB	-12.17	88.70	110.60
27	Z1	582	GLU	C-N-CA	12.16	152.10	121.70
27	Z2	279	ALA	N-CA-CB	-12.13	93.12	110.10
29	b1	55	ASN	C-N-CA	-12.02	91.65	121.70
27	Z1	452	SER	CB-CA-C	-11.94	87.42	110.10
26	Y1	1321	MET	CA-C-O	-11.91	95.09	120.10
27	Z2	101	GLU	N-CA-CB	-11.89	89.20	110.60
27	Z1	101	GLU	N-CA-CB	-11.86	89.25	110.60
27	Z2	24	ARG	N-CA-C	11.80	142.86	111.00
27	Z1	24	ARG	N-CA-C	11.77	142.79	111.00
26	Y1	1382	VAL	CB-CA-C	-11.77	89.03	111.40
26	Y1	1212	ARG	N-CA-CB	-11.72	89.50	110.60
26	Y2	1411	LEU	CA-C-O	11.71	144.68	120.10
26	Y1	1126	LEU	CA-C-O	-11.70	95.54	120.10
29	b2	55	ASN	N-CA-C	11.68	142.53	111.00
25	X1	778	LYS	CB-CA-C	-11.60	87.19	110.40
29	b1	8	THR	N-CA-CB	-11.57	88.33	110.30
27	Z2	15	ALA	N-CA-C	11.56	142.22	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	209	TYR	CA-C-N	-11.51	84.86	117.10
25	X1	727	SER	N-CA-C	-11.51	79.93	111.00
27	Z1	209	TYR	CA-C-N	-11.48	84.95	117.10
27	Z1	345	ASN	N-CA-CB	-11.47	89.95	110.60
25	X1	777	ASN	CB-CA-C	11.46	133.31	110.40
27	Z2	345	ASN	N-CA-CB	-11.45	89.98	110.60
25	X2	778	LYS	N-CA-CB	11.45	131.21	110.60
26	Y2	1230	GLU	CB-CA-C	11.45	133.30	110.40
26	Y1	1230	GLU	CB-CA-C	11.45	133.29	110.40
25	X1	774	ASN	CB-CA-C	11.41	133.22	110.40
25	X2	774	ASN	CB-CA-C	11.40	133.20	110.40
27	Z2	679	GLU	N-CA-CB	-11.34	90.20	110.60
27	Z1	581	PHE	N-CA-CB	11.33	130.99	110.60
26	Y2	1411	LEU	CA-C-N	-11.28	92.39	117.20
27	Z1	125	SER	CB-CA-C	-11.26	88.71	110.10
27	Z2	581	PHE	N-CA-CB	11.26	130.87	110.60
27	Z2	74	SER	N-CA-C	11.24	141.34	111.00
27	Z1	74	SER	N-CA-C	11.23	141.32	111.00
27	Z2	125	SER	CB-CA-C	-11.22	88.78	110.10
27	Z1	188	SER	CB-CA-C	11.18	131.33	110.10
27	Z2	188	SER	CB-CA-C	11.16	131.30	110.10
27	Z1	149	ASP	CB-CA-C	11.14	132.69	110.40
27	Z2	149	ASP	CB-CA-C	11.13	132.65	110.40
29	b1	7	SER	CA-C-N	-11.12	92.73	117.20
26	Y1	1212	ARG	N-CA-C	11.11	141.01	111.00
27	Z2	157	LEU	CB-CA-C	-10.98	89.34	110.20
27	Z1	352	GLU	CB-CA-C	-10.97	88.47	110.40
27	Z1	157	LEU	CB-CA-C	-10.96	89.37	110.20
27	Z1	367	PRO	N-CA-CB	10.96	116.46	103.30
27	Z2	367	PRO	N-CA-CB	10.90	116.38	103.30
27	Z2	352	GLU	CB-CA-C	-10.89	88.61	110.40
29	b2	59	VAL	CB-CA-C	-10.86	90.76	111.40
29	b2	56	THR	N-CA-CB	-10.86	89.67	110.30
27	Z2	7	LEU	CA-C-O	10.85	142.88	120.10
27	Z2	209	TYR	N-CA-C	10.84	140.27	111.00
26	Y2	1383	ALA	N-CA-CB	-10.81	94.97	110.10
27	Z1	209	TYR	N-CA-C	10.80	140.16	111.00
27	Z1	275	GLU	CB-CA-C	10.79	131.98	110.40
27	Z2	275	GLU	CB-CA-C	10.79	131.98	110.40
27	Z1	346	ASN	CB-CA-C	-10.78	88.83	110.40
27	Z2	346	ASN	CB-CA-C	-10.77	88.87	110.40
27	Z2	378	ASP	CB-CA-C	10.69	131.77	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	208	PHE	C-N-CA	-10.66	95.04	121.70
27	Z1	208	PHE	C-N-CA	-10.66	95.05	121.70
27	Z1	378	ASP	CB-CA-C	10.66	131.72	110.40
26	Y2	1239	PHE	N-CA-CB	10.64	129.76	110.60
26	Y2	1456	LEU	N-CA-CB	10.64	131.68	110.40
27	Z2	643	SER	N-CA-C	-10.62	82.31	111.00
27	Z1	643	SER	N-CA-C	-10.60	82.38	111.00
29	b1	34	LYS	CB-CA-C	-10.59	89.22	110.40
29	b2	57	TRP	N-CA-CB	10.54	129.57	110.60
29	b1	56	THR	CA-C-N	-10.49	94.13	117.20
29	b2	91	THR	N-CA-CB	10.48	130.22	110.30
27	Z2	423	ILE	CB-CA-C	-10.45	90.71	111.60
29	b2	56	THR	CA-C-N	-10.44	94.23	117.20
27	Z1	423	ILE	CB-CA-C	-10.43	90.74	111.60
29	b2	8	THR	N-CA-C	-10.38	82.97	111.00
25	X2	788	ASP	CA-C-N	10.36	140.00	117.20
27	Z2	211	PHE	C-N-CA	10.36	147.59	121.70
27	Z1	211	PHE	C-N-CA	10.35	147.58	121.70
27	Z1	109	PHE	CB-CA-C	-10.35	89.71	110.40
27	Z2	109	PHE	CB-CA-C	-10.34	89.71	110.40
26	Y2	1332	LYS	N-CA-CB	-10.28	92.10	110.60
27	Z2	326	LEU	CB-CA-C	10.26	129.69	110.20
27	Z1	326	LEU	CB-CA-C	10.23	129.64	110.20
27	Z1	418	ALA	N-CA-CB	10.20	124.39	110.10
25	X1	789	GLU	N-CA-CB	10.20	128.96	110.60
27	Z1	54	TYR	C-N-CA	10.17	147.13	121.70
29	b1	59	VAL	CB-CA-C	-10.17	92.08	111.40
27	Z2	54	TYR	C-N-CA	10.15	147.07	121.70
25	X2	720	ALA	CB-CA-C	10.10	125.26	110.10
27	Z2	428	TYR	CB-CA-C	-10.10	90.20	110.40
27	Z2	265	SER	N-CA-CB	-10.09	95.36	110.50
27	Z1	428	TYR	CB-CA-C	-10.08	90.24	110.40
27	Z1	265	SER	N-CA-CB	-10.06	95.40	110.50
27	Z1	211	PHE	N-CA-CB	10.05	128.70	110.60
25	X2	727	SER	CB-CA-C	10.03	129.16	110.10
26	Y1	1238	PHE	CB-CA-C	10.01	130.41	110.40
25	X1	720	ALA	CB-CA-C	10.01	125.11	110.10
27	Z2	311	GLN	N-CA-CB	10.01	128.61	110.60
27	Z1	311	GLN	N-CA-CB	9.99	128.58	110.60
17	Q1	626	ASN	CB-CG-ND2	-9.99	92.73	116.70
25	X2	726	VAL	CA-C-N	-9.98	95.24	117.20
26	Y2	1211	LEU	CA-C-O	9.98	141.06	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	254	GLN	CB-CA-C	9.98	130.36	110.40
27	Z2	211	PHE	N-CA-CB	9.96	128.54	110.60
17	Q2	626	ASN	CB-CG-ND2	-9.94	92.84	116.70
27	Z2	254	GLN	CB-CA-C	9.94	130.27	110.40
27	Z1	343	VAL	N-CA-C	9.93	137.81	111.00
27	Z2	343	VAL	N-CA-C	9.92	137.77	111.00
26	Y1	1289	GLN	CB-CA-C	9.91	130.23	110.40
27	Z1	669	THR	CB-CA-C	-9.90	84.86	111.60
27	Z1	678	ASN	CB-CA-C	-9.90	90.59	110.40
26	Y2	1289	GLN	CB-CA-C	9.89	130.17	110.40
27	Z1	197	LEU	C-N-CA	-9.88	96.99	121.70
27	Z2	197	LEU	C-N-CA	-9.88	96.99	121.70
29	b1	56	THR	CA-C-O	9.87	140.83	120.10
26	Y2	1318	LEU	CB-CA-C	9.87	128.94	110.20
27	Z2	240	THR	CB-CA-C	-9.86	84.98	111.60
27	Z1	240	THR	CB-CA-C	-9.85	85.01	111.60
26	Y1	1117	TYR	CB-CA-C	9.84	130.07	110.40
26	Y1	1318	LEU	CB-CA-C	9.82	128.85	110.20
26	Y1	1383	ALA	N-CA-CB	-9.79	96.39	110.10
27	Z2	451	SER	N-CA-CB	-9.73	95.90	110.50
26	Y2	1405	GLN	CB-CA-C	9.70	129.81	110.40
29	b1	45	VAL	CB-CA-C	9.69	129.80	111.40
26	Y1	1405	GLN	CB-CA-C	9.67	129.75	110.40
27	Z2	206	PHE	N-CA-CB	9.65	127.98	110.60
27	Z1	206	PHE	N-CA-CB	9.65	127.97	110.60
27	Z1	49	LEU	CB-CA-C	9.60	128.45	110.20
25	X2	667	GLN	CB-CA-C	9.60	129.60	110.40
27	Z1	101	GLU	CB-CA-C	9.58	129.56	110.40
27	Z2	101	GLU	CB-CA-C	9.58	129.55	110.40
26	Y1	1238	PHE	N-CA-C	-9.57	85.15	111.00
27	Z2	49	LEU	CB-CA-C	9.57	128.38	110.20
25	X1	667	GLN	CB-CA-C	9.57	129.54	110.40
25	X2	700	ILE	CB-CA-C	9.57	130.73	111.60
27	Z2	16	SER	CA-C-O	-9.56	100.03	120.10
25	X1	700	ILE	CB-CA-C	9.53	130.65	111.60
25	X1	777	ASN	N-CA-C	-9.53	85.28	111.00
26	Y2	1411	LEU	C-N-CA	-9.52	97.89	121.70
29	b2	56	THR	CA-C-O	9.47	140.00	120.10
26	Y2	1211	LEU	C-N-CA	9.36	145.10	121.70
27	Z2	99	ASN	N-CA-C	-9.36	85.74	111.00
27	Z1	99	ASN	N-CA-C	-9.35	85.74	111.00
27	Z2	406	ALA	CB-CA-C	9.28	124.02	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	X1	742	GLN	N-CA-CB	9.27	127.28	110.60
27	Z2	522	GLU	CA-C-O	9.24	139.51	120.10
27	Z2	451	SER	N-CA-C	9.23	135.93	111.00
26	Y2	1238	PHE	N-CA-C	-9.22	86.11	111.00
27	Z1	591	GLN	CB-CA-C	9.22	128.83	110.40
27	Z1	522	GLU	N-CA-CB	9.21	127.18	110.60
27	Z2	296	ASP	CB-CA-C	9.20	128.81	110.40
27	Z2	591	GLN	CB-CA-C	9.20	128.80	110.40
29	b2	56	THR	N-CA-C	9.18	135.80	111.00
27	Z1	669	THR	CA-C-O	-9.18	100.83	120.10
27	Z1	406	ALA	CB-CA-C	9.17	123.86	110.10
27	Z1	296	ASP	CB-CA-C	9.16	128.73	110.40
27	Z2	252	GLN	CB-CA-C	9.15	128.71	110.40
27	Z1	252	GLN	CB-CA-C	9.13	128.66	110.40
27	Z1	367	PRO	CA-N-CD	-9.13	98.72	111.50
27	Z1	141	CYS	CB-CA-C	-9.13	92.14	110.40
27	Z2	367	PRO	CA-N-CD	-9.11	98.74	111.50
26	Y2	1455	ASN	C-N-CA	9.09	144.41	121.70
27	Z1	678	ASN	C-N-CA	9.07	144.39	121.70
25	X1	778	LYS	CA-C-O	-9.07	101.05	120.10
27	Z2	141	CYS	CB-CA-C	-9.06	92.29	110.40
27	Z1	23	PRO	C-N-CA	9.05	144.33	121.70
27	Z1	37	PHE	CB-CA-C	-9.04	92.32	110.40
27	Z2	134	PRO	CB-CA-C	-9.04	89.40	112.00
27	Z2	37	PHE	CB-CA-C	-9.04	92.33	110.40
27	Z1	154	PHE	CA-C-N	-9.03	97.33	117.20
27	Z1	595	GLN	CB-CA-C	9.02	128.44	110.40
27	Z2	154	PHE	CA-C-N	-9.02	97.36	117.20
27	Z1	134	PRO	CB-CA-C	-9.02	89.45	112.00
25	X2	742	GLN	CA-C-N	-9.01	97.37	117.20
27	Z2	595	GLN	CB-CA-C	9.01	128.43	110.40
29	b2	86	PHE	N-CA-CB	9.01	126.81	110.60
27	Z1	211	PHE	CB-CA-C	-9.00	92.40	110.40
27	Z1	282	GLN	CA-C-N	-9.00	98.19	116.20
25	X1	638	ASP	CB-CA-C	-8.96	92.47	110.40
27	Z2	211	PHE	CB-CA-C	-8.95	92.50	110.40
27	Z2	282	GLN	CA-C-N	-8.93	98.34	116.20
27	Z1	440	MET	N-CA-CB	-8.92	94.54	110.60
27	Z1	218	LEU	CB-CA-C	-8.91	93.27	110.20
27	Z2	124	LYS	N-CA-C	8.90	135.03	111.00
27	Z2	94	PRO	CB-CA-C	-8.87	89.83	112.00
27	Z1	94	PRO	CB-CA-C	-8.87	89.83	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	218	LEU	CB-CA-C	-8.85	93.38	110.20
26	Y2	1117	TYR	N-CA-CB	-8.81	94.73	110.60
27	Z1	611	GLN	N-CA-C	-8.81	87.20	111.00
27	Z2	290	PHE	N-CA-CB	8.81	126.46	110.60
27	Z2	182	ILE	CB-CA-C	-8.81	93.98	111.60
29	b1	57	TRP	CD1-CG-CD2	8.79	113.33	106.30
27	Z1	290	PHE	N-CA-CB	8.77	126.38	110.60
27	Z1	182	ILE	CB-CA-C	-8.76	94.08	111.60
27	Z1	186	GLU	CB-CA-C	-8.70	92.99	110.40
27	Z1	23	PRO	CB-CA-C	8.70	133.75	112.00
27	Z2	186	GLU	CB-CA-C	-8.70	93.00	110.40
27	Z2	63	LEU	CB-CA-C	8.70	126.72	110.20
25	X1	712	ASP	CB-CA-C	8.69	127.79	110.40
27	Z1	208	PHE	CB-CA-C	8.69	127.78	110.40
27	Z1	277	ARG	CB-CA-C	-8.69	93.02	110.40
27	Z2	421	GLU	CB-CA-C	8.69	127.78	110.40
25	X2	712	ASP	CB-CA-C	8.68	127.77	110.40
27	Z1	421	GLU	CB-CA-C	8.68	127.77	110.40
27	Z1	63	LEU	CB-CA-C	8.67	126.68	110.20
27	Z2	277	ARG	CB-CA-C	-8.67	93.05	110.40
27	Z2	154	PHE	CA-C-O	8.67	138.30	120.10
27	Z1	154	PHE	CA-C-O	8.66	138.28	120.10
29	b2	58	HIS	N-CA-CB	-8.66	95.01	110.60
27	Z2	208	PHE	CB-CA-C	8.66	127.71	110.40
27	Z1	7	LEU	CA-C-O	8.65	138.27	120.10
26	Y1	1120	SER	N-CA-CB	-8.63	97.55	110.50
26	Y2	1349	LEU	CB-CA-C	8.63	126.60	110.20
26	Y1	1349	LEU	CB-CA-C	8.62	126.59	110.20
27	Z1	135	LYS	N-CA-CB	8.61	126.09	110.60
27	Z1	46	TYR	N-CA-CB	8.60	126.08	110.60
27	Z1	207	ALA	N-CA-CB	-8.59	98.07	110.10
27	Z2	73	SER	CB-CA-C	-8.59	93.77	110.10
27	Z2	137	TYR	CB-CA-C	8.58	127.57	110.40
27	Z2	135	LYS	N-CA-CB	8.57	126.02	110.60
27	Z2	46	TYR	N-CA-CB	8.56	126.01	110.60
27	Z2	271	ASP	CB-CA-C	-8.56	93.29	110.40
27	Z1	73	SER	CB-CA-C	-8.55	93.86	110.10
29	b1	58	HIS	N-CA-CB	-8.55	95.21	110.60
27	Z1	137	TYR	CB-CA-C	8.53	127.47	110.40
27	Z1	271	ASP	CB-CA-C	-8.53	93.33	110.40
27	Z1	89	PHE	N-CA-CB	-8.52	95.26	110.60
29	b2	75	HIS	N-CA-C	8.51	133.98	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	150	THR	N-CA-CB	8.50	126.44	110.30
27	Z2	282	GLN	CB-CA-C	8.49	127.39	110.40
27	Z2	207	ALA	N-CA-CB	-8.47	98.24	110.10
29	b1	53	TYR	N-CA-C	-8.47	88.12	111.00
29	b1	54	GLY	C-N-CA	-8.47	100.52	121.70
17	Q1	385	THR	C-N-CA	8.47	142.87	121.70
27	Z2	150	THR	N-CA-CB	8.47	126.39	110.30
27	Z1	282	GLN	CB-CA-C	8.46	127.31	110.40
17	Q2	385	THR	C-N-CA	8.45	142.82	121.70
27	Z1	537	GLN	CB-CA-C	8.44	127.29	110.40
29	b1	75	HIS	N-CA-C	8.44	133.80	111.00
29	b2	80	TYR	N-CA-C	8.45	133.80	111.00
25	X1	761	ASN	CB-CA-C	8.44	127.28	110.40
27	Z2	89	PHE	N-CA-CB	-8.42	95.44	110.60
27	Z1	184	ASP	CB-CA-C	-8.40	93.60	110.40
27	Z1	288	ASN	CA-C-N	-8.40	93.58	117.10
27	Z2	184	ASP	CB-CA-C	-8.38	93.63	110.40
27	Z2	537	GLN	CB-CA-C	8.38	127.16	110.40
25	X2	726	VAL	N-CA-C	8.38	133.62	111.00
25	X2	761	ASN	CB-CA-C	8.38	127.16	110.40
27	Z2	288	ASN	CA-C-N	-8.37	93.67	117.10
27	Z2	625	HIS	C-N-CA	8.35	139.83	122.30
27	Z1	24	ARG	NE-CZ-NH2	-8.35	116.13	120.30
29	b1	35	TYR	CB-CA-C	8.35	127.09	110.40
27	Z1	543	GLN	CB-CA-C	8.33	127.05	110.40
27	Z1	206	PHE	CB-CA-C	-8.32	93.75	110.40
27	Z2	206	PHE	CB-CA-C	-8.32	93.76	110.40
27	Z1	56	SER	N-CA-C	8.32	133.45	111.00
27	Z2	543	GLN	CB-CA-C	8.32	127.03	110.40
27	Z1	155	ASP	N-CA-CB	8.31	125.56	110.60
25	X1	788	ASP	C-N-CA	8.30	142.46	121.70
27	Z2	155	ASP	N-CA-CB	8.30	125.54	110.60
29	b2	52	LYS	CB-CA-C	8.28	126.97	110.40
27	Z2	372	LYS	C-N-CA	-8.27	101.03	121.70
29	b1	57	TRP	N-CA-CB	8.25	125.45	110.60
27	Z1	372	LYS	C-N-CA	-8.24	101.09	121.70
27	Z1	53	LEU	CA-C-N	-8.22	99.12	117.20
27	Z2	56	SER	N-CA-C	8.21	133.15	111.00
27	Z2	209	TYR	C-N-CA	-8.20	87.55	122.00
27	Z1	213	PRO	CA-N-CD	-8.18	100.04	111.50
27	Z1	524	GLN	CB-CA-C	8.18	126.76	110.40
26	Y2	1118	ALA	N-CA-C	8.18	133.08	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b2	77	VAL	N-CA-CB	8.18	129.49	111.50
27	Z1	209	TYR	C-N-CA	-8.17	87.69	122.00
27	Z2	524	GLN	CB-CA-C	8.17	126.74	110.40
27	Z2	213	PRO	CA-N-CD	-8.16	100.08	111.50
27	Z1	422	ARG	CB-CA-C	8.16	126.72	110.40
27	Z2	669	THR	CA-C-O	-8.16	102.97	120.10
25	X2	742	GLN	C-N-CA	8.14	142.05	121.70
27	Z2	422	ARG	CB-CA-C	8.14	126.67	110.40
27	Z2	53	LEU	CA-C-N	-8.13	99.31	117.20
27	Z1	57	LEU	CB-CA-C	-8.12	94.76	110.20
27	Z2	57	LEU	CB-CA-C	-8.11	94.80	110.20
26	Y1	1212	ARG	CB-CA-C	8.10	126.60	110.40
27	Z2	625	HIS	CA-C-N	-8.09	100.02	116.20
27	Z1	581	PHE	C-N-CA	-8.09	101.49	121.70
27	Z2	581	PHE	C-N-CA	-8.09	101.48	121.70
27	Z1	213	PRO	N-CA-CB	8.06	112.98	103.30
27	Z1	216	LEU	CA-C-N	-8.06	99.47	117.20
29	b1	55	ASN	N-CA-C	8.06	132.76	111.00
27	Z1	282	GLN	CA-C-O	8.06	137.02	120.10
27	Z2	216	LEU	CA-C-N	-8.05	99.50	117.20
27	Z2	213	PRO	N-CA-CB	8.04	112.95	103.30
17	Q1	703	THR	CA-CB-CG2	-8.01	101.19	112.40
26	Y2	1120	SER	N-CA-CB	-8.01	98.49	110.50
17	Q2	703	THR	CA-CB-CG2	-8.00	101.19	112.40
27	Z2	8	SER	N-CA-C	-8.00	89.39	111.00
29	b1	36	GLN	N-CA-C	-8.00	89.39	111.00
27	Z2	282	GLN	CA-C-O	7.99	136.87	120.10
25	X2	679	LEU	CB-CA-C	7.98	125.35	110.20
27	Z2	318	SER	CB-CA-C	-7.96	94.97	110.10
29	b1	80	TYR	N-CA-C	7.96	132.49	111.00
25	X1	679	LEU	CB-CA-C	7.94	125.29	110.20
27	Z2	185	LEU	CB-CA-C	-7.94	95.11	110.20
27	Z1	185	LEU	CB-CA-C	-7.93	95.13	110.20
27	Z2	23	PRO	C-N-CA	7.92	141.50	121.70
27	Z1	318	SER	CB-CA-C	-7.92	95.05	110.10
26	Y2	1267	GLU	N-CA-CB	-7.92	96.34	110.60
26	Y1	1403	ARG	NE-CZ-NH1	-7.91	116.35	120.30
27	Z2	655	LEU	CB-CA-C	7.90	125.20	110.20
27	Z2	186	GLU	N-CA-CB	7.89	124.81	110.60
27	Z2	53	LEU	N-CA-CB	7.88	126.15	110.40
29	b2	80	TYR	CB-CA-C	-7.87	94.66	110.40
27	Z1	612	ILE	N-CA-CB	7.87	128.89	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y1	1119	GLU	C-N-CA	-7.86	102.05	121.70
27	Z1	655	LEU	CB-CA-C	7.86	125.13	110.20
27	Z1	186	GLU	N-CA-CB	7.86	124.74	110.60
25	X2	809	ASP	CB-CA-C	7.86	126.11	110.40
27	Z2	46	TYR	CB-CA-C	-7.86	94.69	110.40
27	Z1	46	TYR	CB-CA-C	-7.85	94.69	110.40
27	Z2	393	LEU	CB-CA-C	7.85	125.12	110.20
25	X1	683	ALA	CB-CA-C	7.85	121.88	110.10
26	Y2	1429	LYS	N-CA-CB	-7.85	96.47	110.60
27	Z1	56	SER	N-CA-CB	-7.85	98.73	110.50
25	X2	743	GLN	N-CA-C	-7.84	89.82	111.00
27	Z1	53	LEU	N-CA-CB	7.84	126.09	110.40
27	Z1	393	LEU	CB-CA-C	7.83	125.07	110.20
26	Y2	1238	PHE	CB-CA-C	7.83	126.05	110.40
27	Z1	8	SER	CB-CA-C	-7.82	95.25	110.10
27	Z2	241	THR	N-CA-CB	7.81	125.13	110.30
25	X2	683	ALA	CB-CA-C	7.81	121.81	110.10
27	Z1	241	THR	N-CA-C	-7.81	89.92	111.00
27	Z1	181	ASP	N-CA-CB	7.79	124.63	110.60
27	Z2	241	THR	N-CA-C	-7.79	89.98	111.00
25	X2	726	VAL	CA-C-O	7.78	136.44	120.10
26	Y2	1403	ARG	NE-CZ-NH1	-7.78	116.41	120.30
27	Z1	241	THR	N-CA-CB	7.78	125.08	110.30
19	R2	584	ILE	CB-CA-C	-7.77	96.06	111.60
18	R1	584	ILE	CB-CA-C	-7.77	96.06	111.60
27	Z2	8	SER	CB-CA-C	7.77	124.86	110.10
25	X2	754	ASN	CB-CA-C	7.76	125.93	110.40
26	Y2	1125	ASP	CA-C-N	-7.76	100.12	117.20
25	X1	809	ASP	CB-CA-C	7.76	125.91	110.40
27	Z1	355	LYS	CB-CA-C	-7.75	94.91	110.40
25	X1	754	ASN	CB-CA-C	7.74	125.88	110.40
29	b1	11	VAL	N-CA-CB	7.74	128.53	111.50
26	Y2	1320	LEU	CA-C-N	-7.74	100.18	117.20
27	Z2	56	SER	N-CA-CB	-7.73	98.90	110.50
27	Z2	355	LYS	CB-CA-C	-7.72	94.95	110.40
27	Z2	181	ASP	N-CA-CB	7.71	124.49	110.60
27	Z1	216	LEU	CA-C-O	7.71	136.29	120.10
27	Z2	347	SER	CA-C-N	-7.69	100.29	117.20
17	Q1	299	ALA	N-CA-C	-7.67	90.28	111.00
27	Z2	216	LEU	CA-C-O	7.67	136.21	120.10
17	Q2	298	SER	O-C-N	7.67	134.97	122.70
17	Q2	299	ALA	N-CA-C	-7.66	90.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b1	57	TRP	CE2-CD2-CG	-7.65	101.18	107.30
26	Y2	1371	VAL	CA-C-O	7.64	136.14	120.10
29	b2	91	THR	C-N-CA	7.64	140.79	121.70
29	b2	9	PRO	CA-N-CD	-7.62	100.83	111.50
17	Q1	298	SER	O-C-N	7.62	134.89	122.70
27	Z1	347	SER	CA-C-N	-7.60	100.49	117.20
27	Z1	15	ALA	CB-CA-C	-7.58	98.73	110.10
27	Z2	215	VAL	N-CA-C	-7.57	90.57	111.00
27	Z1	215	VAL	N-CA-C	-7.56	90.59	111.00
27	Z1	401	ASP	CB-CA-C	-7.56	95.28	110.40
29	b1	56	THR	C-N-CA	7.55	140.58	121.70
27	Z1	362	SER	CB-CA-C	-7.55	95.76	110.10
27	Z1	53	LEU	CA-C-O	7.54	135.94	120.10
29	b2	71	HIS	N-CA-CB	-7.54	97.02	110.60
27	Z2	147	GLU	CB-CA-C	7.53	125.47	110.40
27	Z2	401	ASP	CB-CA-C	-7.53	95.35	110.40
25	X1	637	LEU	N-CA-CB	7.51	125.42	110.40
27	Z2	53	LEU	CA-C-O	7.50	135.86	120.10
27	Z2	186	GLU	CA-C-N	-7.50	100.69	117.20
29	b1	77	VAL	N-CA-CB	7.50	128.01	111.50
27	Z1	147	GLU	CB-CA-C	7.50	125.40	110.40
26	Y1	1455	ASN	CA-C-N	-7.49	100.73	117.20
29	b2	35	TYR	N-CA-CB	7.45	124.01	110.60
27	Z1	130	VAL	CB-CA-C	-7.45	97.25	111.40
17	Q1	88	GLY	C-N-CA	7.44	140.31	121.70
27	Z1	186	GLU	CA-C-N	-7.44	100.83	117.20
29	b2	10	ILE	N-CA-C	-7.43	90.93	111.00
27	Z2	362	SER	CB-CA-C	-7.43	95.98	110.10
27	Z2	130	VAL	CB-CA-C	-7.43	97.29	111.40
17	Q2	88	GLY	C-N-CA	7.42	140.24	121.70
29	b1	8	THR	N-CA-C	7.41	131.02	111.00
27	Z2	281	VAL	CB-CA-C	-7.41	97.32	111.40
27	Z2	37	PHE	N-CA-CB	7.41	123.93	110.60
27	Z1	37	PHE	N-CA-CB	7.39	123.91	110.60
27	Z1	281	VAL	CB-CA-C	-7.39	97.36	111.40
27	Z2	439	LEU	C-N-CA	-7.38	103.25	121.70
27	Z1	240	THR	N-CA-CB	7.37	124.31	110.30
27	Z2	15	ALA	CA-C-O	-7.37	104.62	120.10
27	Z2	377	SER	CB-CA-C	7.37	124.10	110.10
27	Z1	377	SER	CB-CA-C	7.36	124.09	110.10
26	Y2	1320	LEU	CA-C-O	7.36	135.56	120.10
26	Y2	1455	ASN	N-CA-C	7.36	130.86	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	439	LEU	C-N-CA	-7.36	103.31	121.70
25	X2	705	ASP	CB-CA-C	7.35	125.11	110.40
27	Z2	210	PRO	N-CD-CG	-7.35	92.17	103.20
27	Z1	210	PRO	N-CD-CG	-7.35	92.18	103.20
27	Z2	240	THR	N-CA-CB	7.33	124.23	110.30
26	Y1	1382	VAL	N-CA-CB	-7.32	95.39	111.50
26	Y1	1332	LYS	C-N-CA	7.32	140.00	121.70
27	Z1	98	SER	CB-CA-C	7.30	123.98	110.10
27	Z2	433	ASP	CB-CA-C	7.30	125.01	110.40
27	Z2	400	SER	CB-CA-C	7.29	123.95	110.10
27	Z1	302	ILE	CB-CA-C	-7.28	97.03	111.60
27	Z1	433	ASP	CB-CA-C	7.28	124.97	110.40
27	Z1	289	PRO	N-CD-CG	-7.28	92.28	103.20
27	Z1	380	ILE	CB-CA-C	-7.27	97.05	111.60
26	Y2	1126	LEU	N-CA-CB	7.27	124.94	110.40
26	Y2	1292	LYS	CB-CA-C	7.26	124.93	110.40
27	Z2	98	SER	CB-CA-C	7.25	123.89	110.10
27	Z2	380	ILE	CB-CA-C	-7.25	97.10	111.60
25	X1	820	SER	CB-CA-C	7.25	123.87	110.10
27	Z1	400	SER	CB-CA-C	7.25	123.87	110.10
27	Z2	289	PRO	N-CD-CG	-7.24	92.34	103.20
27	Z2	302	ILE	CB-CA-C	-7.24	97.12	111.60
29	b2	65	PHE	CB-CA-C	-7.24	95.92	110.40
26	Y1	1292	LYS	CB-CA-C	7.24	124.87	110.40
27	Z1	207	ALA	N-CA-C	7.22	130.50	111.00
29	b1	36	GLN	N-CA-CB	7.21	123.58	110.60
25	X2	820	SER	CB-CA-C	7.21	123.79	110.10
26	Y2	1126	LEU	CA-C-O	-7.19	104.99	120.10
26	Y1	1455	ASN	CA-C-O	7.19	135.20	120.10
25	X1	742	GLN	C-N-CA	7.18	139.66	121.70
27	Z2	207	ALA	N-CA-C	7.18	130.38	111.00
26	Y1	1267	GLU	N-CA-CB	-7.17	97.70	110.60
29	b1	52	LYS	CB-CA-C	7.16	124.73	110.40
27	Z2	434	GLN	CB-CA-C	-7.16	96.08	110.40
26	Y2	1371	VAL	CA-C-N	-7.16	101.45	117.20
27	Z1	93	VAL	N-CA-C	7.15	130.31	111.00
27	Z1	434	GLN	CB-CA-C	-7.15	96.10	110.40
27	Z2	89	PHE	CB-CA-C	-7.15	96.10	110.40
26	Y2	1122	ILE	CB-CA-C	-7.15	97.30	111.60
27	Z1	42	ILE	CB-CA-C	-7.15	97.30	111.60
27	Z1	89	PHE	CB-CA-C	-7.15	96.10	110.40
27	Z1	193	THR	N-CA-CB	-7.14	96.74	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	280	LYS	N-CA-CB	7.14	123.44	110.60
27	Z2	344	TYR	N-CA-CB	-7.13	97.76	110.60
25	X1	727	SER	N-CA-CB	-7.13	99.81	110.50
26	Y2	1211	LEU	N-CA-CB	7.13	124.65	110.40
27	Z2	93	VAL	N-CA-C	7.13	130.24	111.00
27	Z1	612	ILE	CA-C-O	-7.12	105.15	120.10
27	Z2	184	ASP	N-CA-CB	-7.12	97.78	110.60
27	Z2	611	GLN	N-CA-CB	-7.12	97.79	110.60
27	Z2	193	THR	N-CA-CB	-7.11	96.79	110.30
26	Y2	1119	GLU	C-N-CA	-7.11	103.93	121.70
27	Z2	111	ILE	N-CA-CB	-7.11	94.45	110.80
27	Z2	287	ILE	N-CA-CB	7.10	127.12	110.80
27	Z2	581	PHE	CA-C-N	-7.10	101.58	117.20
27	Z1	88	ILE	CA-C-O	-7.10	105.20	120.10
27	Z2	280	LYS	N-CA-CB	7.09	123.37	110.60
27	Z1	581	PHE	CA-C-N	-7.09	101.60	117.20
27	Z2	42	ILE	CB-CA-C	-7.09	97.42	111.60
27	Z1	184	ASP	N-CA-CB	-7.08	97.86	110.60
27	Z1	111	ILE	N-CA-CB	-7.06	94.56	110.80
27	Z1	344	TYR	N-CA-CB	-7.05	97.91	110.60
27	Z2	88	ILE	CA-C-O	-7.04	105.32	120.10
27	Z1	287	ILE	N-CA-CB	7.02	126.94	110.80
27	Z2	379	ASN	CB-CA-C	7.02	124.43	110.40
27	Z2	668	GLU	C-N-CA	-7.01	104.18	121.70
27	Z1	59	PHE	N-CA-CB	6.99	123.17	110.60
27	Z2	59	PHE	N-CA-CB	6.99	123.17	110.60
27	Z2	411	GLU	N-CA-C	-6.98	92.16	111.00
27	Z1	660	SER	CB-CA-C	6.97	123.35	110.10
27	Z1	23	PRO	CA-C-N	-6.97	101.86	117.20
17	Q2	626	ASN	OD1-CG-ND2	6.96	137.91	121.90
27	Z2	660	SER	CB-CA-C	6.96	123.31	110.10
26	Y2	1455	ASN	CB-CA-C	-6.95	96.50	110.40
27	Z1	411	GLU	N-CA-C	-6.94	92.25	111.00
26	Y1	1287	ASN	CB-CA-C	6.94	124.28	110.40
26	Y1	1333	ASP	CB-CA-C	6.93	124.26	110.40
27	Z1	289	PRO	N-CA-C	-6.93	94.09	112.10
27	Z2	289	PRO	N-CA-C	-6.92	94.11	112.10
26	Y2	1287	ASN	CB-CA-C	6.92	124.23	110.40
26	Y2	1266	ALA	C-N-CA	6.90	138.96	121.70
27	Z2	522	GLU	CB-CA-C	-6.90	96.60	110.40
27	Z1	442	ASN	CB-CA-C	6.89	124.18	110.40
27	Z2	329	LYS	N-CA-C	-6.89	92.40	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	279	ALA	CA-C-N	-6.89	102.05	117.20
27	Z1	329	LYS	N-CA-C	-6.88	92.42	111.00
17	Q1	626	ASN	OD1-CG-ND2	6.88	137.73	121.90
29	b1	80	TYR	CA-C-O	-6.88	105.65	120.10
27	Z2	186	GLU	CA-C-O	6.88	134.54	120.10
29	b2	8	THR	N-CA-CB	6.87	123.35	110.30
27	Z2	442	ASN	CB-CA-C	6.85	124.11	110.40
25	X2	791	ILE	CB-CA-C	-6.85	97.91	111.60
27	Z2	279	ALA	CA-C-N	-6.84	102.15	117.20
27	Z2	373	LEU	N-CA-CB	-6.84	96.72	110.40
27	Z1	288	ASN	CA-C-O	6.83	134.44	120.10
27	Z1	186	GLU	CA-C-O	6.83	134.43	120.10
25	X1	791	ILE	CB-CA-C	-6.82	97.96	111.60
27	Z1	185	LEU	C-N-CA	6.82	138.75	121.70
27	Z1	47	ASN	N-CA-CB	-6.82	98.33	110.60
27	Z2	288	ASN	CA-C-O	6.82	134.41	120.10
26	Y2	1383	ALA	N-CA-C	6.80	129.37	111.00
27	Z1	373	LEU	N-CA-CB	-6.78	96.85	110.40
26	Y2	1396	LEU	CB-CA-C	6.77	123.07	110.20
27	Z1	138	ARG	CB-CA-C	-6.77	96.86	110.40
26	Y2	1342	GLN	CB-CA-C	6.77	123.93	110.40
27	Z2	185	LEU	C-N-CA	6.76	138.61	121.70
26	Y1	1407	SER	CB-CA-C	-6.76	97.25	110.10
29	b1	76	PHE	CB-CA-C	-6.76	96.87	110.40
27	Z2	78	ASP	CB-CA-C	6.75	123.90	110.40
27	Z1	78	ASP	CB-CA-C	6.75	123.90	110.40
26	Y2	1316	GLU	CB-CA-C	6.75	123.89	110.40
26	Y1	1321	MET	CB-CA-C	-6.74	96.92	110.40
26	Y1	1396	LEU	CB-CA-C	6.74	123.01	110.20
27	Z2	15	ALA	CA-C-N	6.74	132.03	117.20
27	Z1	119	GLU	CA-C-O	-6.74	105.96	120.10
27	Z2	47	ASN	N-CA-CB	-6.73	98.48	110.60
29	b1	65	PHE	CB-CA-C	-6.73	96.94	110.40
27	Z1	101	GLU	N-CA-C	6.72	129.14	111.00
25	X1	742	GLN	CA-C-N	-6.72	102.42	117.20
26	Y2	1407	SER	CB-CA-C	-6.72	97.33	110.10
26	Y1	1316	GLU	CB-CA-C	6.71	123.83	110.40
27	Z2	138	ARG	CB-CA-C	-6.71	96.97	110.40
27	Z2	198	ASN	N-CA-CB	-6.71	98.52	110.60
26	Y1	1342	GLN	CB-CA-C	6.71	123.81	110.40
27	Z2	101	GLU	N-CA-C	6.71	129.10	111.00
29	b2	38	GLU	OE1-CD-OE2	6.70	131.34	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y1	1122	ILE	CB-CA-C	-6.69	98.22	111.60
27	Z1	88	ILE	CA-C-N	6.68	131.89	117.20
26	Y1	1275	ASN	N-CA-CB	6.67	122.60	110.60
26	Y2	1275	ASN	N-CA-CB	6.66	122.58	110.60
26	Y1	1429	LYS	C-N-CA	6.65	138.33	121.70
29	b1	80	TYR	CB-CA-C	-6.64	97.11	110.40
27	Z2	88	ILE	CA-C-N	6.64	131.81	117.20
27	Z1	198	ASN	N-CA-CB	-6.63	98.66	110.60
29	b2	91	THR	CB-CA-C	-6.63	93.69	111.60
29	b2	76	PHE	CB-CA-C	-6.63	97.14	110.40
27	Z2	372	LYS	CA-C-O	-6.61	106.22	120.10
27	Z1	625	HIS	C-N-CA	6.60	136.17	122.30
27	Z2	347	SER	CA-C-O	6.60	133.95	120.10
26	Y1	1321	MET	N-CA-CB	-6.59	98.73	110.60
27	Z2	193	THR	CB-CA-C	-6.58	93.83	111.60
27	Z1	372	LYS	CA-C-O	-6.57	106.30	120.10
29	b1	10	ILE	C-N-CA	6.57	138.13	121.70
27	Z1	193	THR	CB-CA-C	-6.57	93.87	111.60
27	Z1	279	ALA	CA-C-O	6.56	133.88	120.10
26	Y2	1454	LYS	CB-CA-C	6.56	123.52	110.40
26	Y1	1453	PHE	CB-CA-C	6.56	123.51	110.40
27	Z2	248	ASN	CB-CA-C	6.55	123.50	110.40
27	Z1	248	ASN	CB-CA-C	6.55	123.50	110.40
26	Y1	1454	LYS	CB-CA-C	6.54	123.48	110.40
26	Y2	1453	PHE	CB-CA-C	6.54	123.47	110.40
27	Z1	347	SER	CA-C-O	6.52	133.79	120.10
29	b1	71	HIS	N-CA-CB	-6.52	98.86	110.60
27	Z2	124	LYS	CB-CA-C	-6.51	97.37	110.40
26	Y2	1341	MET	CB-CA-C	-6.50	97.40	110.40
27	Z2	24	ARG	CB-CA-C	-6.49	97.43	110.40
27	Z2	39	GLN	C-N-CA	-6.48	105.49	121.70
27	Z2	178	ARG	N-CA-C	-6.48	93.51	111.00
29	b1	63	LYS	CB-CA-C	6.47	123.35	110.40
26	Y2	1119	GLU	CA-C-O	-6.47	106.51	120.10
27	Z1	39	GLN	C-N-CA	-6.47	105.53	121.70
29	b2	9	PRO	C-N-CA	-6.47	105.53	121.70
27	Z1	380	ILE	N-CA-CB	-6.47	95.93	110.80
27	Z1	178	ARG	N-CA-C	-6.46	93.55	111.00
27	Z2	380	ILE	N-CA-CB	-6.46	95.93	110.80
27	Z2	279	ALA	CA-C-O	6.46	133.67	120.10
27	Z2	418	ALA	N-CA-CB	6.46	119.15	110.10
25	X2	819	ASN	CB-CA-C	6.45	123.30	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	Y1	1382	VAL	CA-C-O	6.45	133.64	120.10
26	Y1	1341	MET	CB-CA-C	-6.44	97.52	110.40
27	Z2	210	PRO	CA-C-N	-6.44	103.04	117.20
27	Z1	95	TRP	C-N-CA	-6.44	108.78	122.30
27	Z2	95	TRP	C-N-CA	-6.44	108.78	122.30
27	Z1	210	PRO	CA-C-N	-6.43	103.06	117.20
27	Z2	111	ILE	N-CA-C	6.42	128.35	111.00
26	Y1	1266	ALA	CB-CA-C	-6.42	100.47	110.10
27	Z2	74	SER	CB-CA-C	-6.42	97.91	110.10
25	X1	819	ASN	CB-CA-C	6.41	123.23	110.40
26	Y2	1278	CYS	CB-CA-C	-6.41	97.59	110.40
29	b2	90	LYS	CA-C-N	-6.40	103.11	117.20
23	V1	167	GLY	N-CA-C	-6.40	97.09	113.10
27	Z1	29	SER	CB-CA-C	-6.40	97.94	110.10
27	Z1	64	VAL	N-CA-C	-6.40	93.72	111.00
27	Z1	111	ILE	N-CA-C	6.40	128.28	111.00
27	Z1	369	GLN	N-CA-C	-6.40	93.72	111.00
25	X2	771	ASN	CB-CA-C	6.40	123.19	110.40
27	Z2	29	SER	CB-CA-C	-6.40	97.95	110.10
23	V2	167	GLY	N-CA-C	-6.39	97.12	113.10
27	Z2	64	VAL	N-CA-C	-6.39	93.73	111.00
27	Z1	150	THR	CB-CA-C	-6.39	94.34	111.60
26	Y1	1278	CYS	CB-CA-C	-6.38	97.63	110.40
26	Y2	1371	VAL	N-CA-C	6.38	128.23	111.00
27	Z1	103	VAL	CB-CA-C	-6.38	99.28	111.40
27	Z2	150	THR	CB-CA-C	-6.37	94.39	111.60
27	Z1	74	SER	CB-CA-C	-6.37	98.00	110.10
26	Y1	1229	MET	CB-CA-C	-6.37	97.66	110.40
26	Y2	1229	MET	CB-CA-C	-6.37	97.67	110.40
27	Z2	369	GLN	N-CA-C	-6.36	93.82	111.00
27	Z1	297	TYR	N-CA-C	6.36	128.17	111.00
27	Z2	117	ASP	CB-CA-C	6.36	123.11	110.40
25	X1	771	ASN	CB-CA-C	6.35	123.11	110.40
27	Z2	103	VAL	CB-CA-C	-6.35	99.33	111.40
29	b2	7	SER	N-CA-CB	6.35	120.03	110.50
27	Z1	217	LEU	N-CA-CB	6.35	123.09	110.40
29	b2	54	GLY	C-N-CA	-6.34	105.84	121.70
27	Z1	447	PHE	N-CA-CB	-6.34	99.18	110.60
27	Z2	302	ILE	N-CA-CB	6.34	125.39	110.80
27	Z1	302	ILE	N-CA-CB	6.34	125.38	110.80
25	X2	637	LEU	CA-C-O	6.33	133.39	120.10
27	Z2	447	PHE	N-CA-CB	-6.32	99.22	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	297	TYR	N-CA-C	6.32	128.07	111.00
27	Z2	217	LEU	N-CA-CB	6.32	123.04	110.40
27	Z1	117	ASP	CB-CA-C	6.32	123.04	110.40
27	Z1	400	SER	N-CA-CB	6.32	119.97	110.50
25	X2	789	GLU	CB-CA-C	6.31	123.02	110.40
27	Z2	357	GLN	CB-CA-C	6.31	123.02	110.40
27	Z2	669	THR	CB-CA-C	-6.29	94.60	111.60
27	Z1	23	PRO	N-CA-CB	6.29	110.85	103.30
26	Y2	1386	ALA	CB-CA-C	6.29	119.53	110.10
27	Z2	88	ILE	C-N-CA	-6.29	105.98	121.70
27	Z1	88	ILE	C-N-CA	-6.28	106.00	121.70
29	b1	34	LYS	N-CA-CB	6.28	121.90	110.60
29	b1	35	TYR	CA-C-N	-6.27	103.40	117.20
29	b2	7	SER	CA-C-N	6.27	130.99	117.20
27	Z1	11	PRO	N-CA-C	6.26	128.38	112.10
27	Z2	65	LEU	C-N-CA	-6.26	106.05	121.70
27	Z2	679	GLU	N-CA-C	-6.25	94.12	111.00
27	Z1	357	GLN	CB-CA-C	6.25	122.90	110.40
27	Z2	11	PRO	N-CA-C	6.25	128.34	112.10
26	Y1	1386	ALA	CB-CA-C	6.24	119.47	110.10
27	Z2	211	PHE	N-CA-C	6.22	127.81	111.00
27	Z2	312	ASN	C-N-CA	6.22	137.26	121.70
27	Z1	65	LEU	C-N-CA	-6.22	106.15	121.70
29	b1	36	GLN	CB-CA-C	6.22	122.84	110.40
29	b1	10	ILE	N-CA-C	-6.21	94.22	111.00
27	Z1	211	PHE	N-CA-C	6.21	127.77	111.00
27	Z1	312	ASN	C-N-CA	6.20	137.20	121.70
25	X2	637	LEU	N-CA-CB	6.20	122.79	110.40
27	Z1	372	LYS	CA-C-N	6.20	130.83	117.20
27	Z2	400	SER	N-CA-CB	6.20	119.79	110.50
25	X2	645	THR	CB-CA-C	6.19	128.32	111.60
27	Z1	34	ARG	NE-CZ-NH1	6.19	123.40	120.30
29	b2	63	LYS	CB-CA-C	6.19	122.78	110.40
27	Z1	523	ASN	N-CA-C	6.19	127.71	111.00
27	Z2	180	ASN	N-CA-CB	6.18	121.72	110.60
27	Z2	343	VAL	CB-CA-C	-6.18	99.66	111.40
25	X1	645	THR	CB-CA-C	6.17	128.26	111.60
29	b1	80	TYR	CA-C-N	6.17	130.77	117.20
27	Z1	180	ASN	N-CA-CB	6.17	121.70	110.60
27	Z1	343	VAL	CB-CA-C	-6.17	99.69	111.40
29	b2	75	HIS	CB-CA-C	-6.16	98.08	110.40
27	Z1	107	ASP	CB-CA-C	-6.15	98.10	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	218	LEU	CA-C-N	-6.15	103.68	117.20
23	V2	608	PRO	N-CA-CB	6.14	110.67	103.30
27	Z1	218	LEU	CA-C-N	-6.14	103.70	117.20
27	Z2	264	ASN	CA-C-O	-6.13	107.22	120.10
20	S2	187	ASP	CB-CG-OD2	6.13	123.82	118.30
27	Z2	107	ASP	CB-CA-C	-6.13	98.14	110.40
27	Z2	31	ASN	CB-CA-C	-6.12	98.16	110.40
27	Z2	372	LYS	CA-C-N	6.12	130.65	117.20
26	Y2	1119	GLU	CA-C-N	6.11	130.65	117.20
27	Z2	413	LYS	CB-CA-C	-6.11	98.17	110.40
27	Z1	31	ASN	CB-CA-C	-6.11	98.18	110.40
27	Z2	435	SER	CB-CA-C	6.10	121.69	110.10
27	Z2	146	LYS	CB-CA-C	6.10	122.59	110.40
23	V1	608	PRO	N-CA-CB	6.09	110.61	103.30
27	Z1	119	GLU	CA-C-N	6.09	130.60	117.20
27	Z1	581	PHE	CA-C-O	6.09	132.89	120.10
27	Z2	612	ILE	N-CA-CB	6.09	124.80	110.80
27	Z1	413	LYS	CB-CA-C	-6.08	98.23	110.40
27	Z1	264	ASN	CA-C-O	-6.08	107.34	120.10
27	Z1	333	MET	CA-C-N	-6.07	103.84	117.20
27	Z2	159	SER	CB-CA-C	-6.07	98.57	110.10
27	Z2	581	PHE	CA-C-O	6.07	132.84	120.10
20	S1	187	ASP	CB-CG-OD2	6.06	123.75	118.30
27	Z1	290	PHE	N-CA-C	-6.05	94.66	111.00
27	Z2	225	LEU	CB-CA-C	6.05	121.69	110.20
27	Z2	54	TYR	N-CA-CB	6.04	121.48	110.60
27	Z2	333	MET	C-N-CA	6.04	136.80	121.70
27	Z2	333	MET	CA-C-N	-6.04	103.92	117.20
27	Z2	290	PHE	N-CA-C	-6.04	94.70	111.00
29	b1	42	ALA	CB-CA-C	6.04	119.15	110.10
26	Y2	1333	ASP	N-CA-C	6.03	127.29	111.00
27	Z1	435	SER	CB-CA-C	6.03	121.56	110.10
27	Z2	162	LYS	N-CA-CB	6.03	121.45	110.60
29	b2	9	PRO	N-CA-CB	6.03	110.53	103.30
27	Z1	162	LYS	CB-CA-C	6.01	122.43	110.40
26	Y2	1455	ASN	N-CA-CB	-6.01	99.78	110.60
27	Z2	34	ARG	C-N-CA	-6.00	106.69	121.70
27	Z1	610	SER	CB-CA-C	-6.00	98.69	110.10
27	Z1	54	TYR	N-CA-CB	6.00	121.40	110.60
27	Z1	34	ARG	C-N-CA	-6.00	106.70	121.70
27	Z2	451	SER	CB-CA-C	6.00	121.50	110.10
27	Z1	146	LYS	CB-CA-C	6.00	122.39	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	128	LYS	CB-CA-C	-5.99	98.41	110.40
27	Z1	333	MET	C-N-CA	5.99	136.67	121.70
27	Z1	100	VAL	CB-CA-C	5.99	122.78	111.40
27	Z1	366	LEU	N-CA-C	-5.99	94.83	111.00
27	Z2	668	GLU	N-CA-C	5.98	127.15	111.00
27	Z1	128	LYS	CB-CA-C	-5.97	98.45	110.40
27	Z2	366	LEU	N-CA-C	-5.97	94.87	111.00
27	Z1	51	ASP	CB-CA-C	-5.97	98.46	110.40
27	Z2	162	LYS	CB-CA-C	5.97	122.34	110.40
26	Y2	1124	THR	CB-CA-C	-5.97	95.49	111.60
27	Z1	162	LYS	N-CA-CB	5.96	121.33	110.60
29	b2	34	LYS	N-CA-C	5.96	127.09	111.00
27	Z1	225	LEU	CB-CA-C	5.96	121.53	110.20
27	Z2	314	ILE	CA-C-N	-5.96	104.09	117.20
29	b2	15	ASP	CB-CA-C	-5.96	98.49	110.40
27	Z1	154	PHE	C-N-CA	5.95	136.59	121.70
27	Z2	51	ASP	CB-CA-C	-5.95	98.50	110.40
27	Z2	154	PHE	C-N-CA	5.95	136.56	121.70
27	Z1	314	ILE	CA-C-N	-5.94	104.12	117.20
25	X1	638	ASP	N-CA-C	-5.94	94.96	111.00
27	Z1	423	ILE	N-CA-C	-5.93	94.98	111.00
27	Z2	610	SER	CB-CA-C	-5.93	98.83	110.10
27	Z2	100	VAL	CB-CA-C	5.93	122.66	111.40
27	Z1	408	LEU	N-CA-C	5.92	127.00	111.00
27	Z2	423	ILE	N-CA-C	-5.92	95.03	111.00
29	b1	89	PHE	N-CA-CB	-5.91	99.96	110.60
27	Z2	362	SER	CA-C-N	5.90	130.18	117.20
27	Z1	362	SER	CA-C-N	5.90	130.17	117.20
27	Z2	408	LEU	N-CA-C	5.89	126.92	111.00
27	Z1	45	TRP	N-CA-C	-5.89	95.11	111.00
27	Z2	45	TRP	N-CA-C	-5.88	95.13	111.00
29	b2	92	ALA	N-CA-CB	5.88	118.33	110.10
27	Z2	162	LYS	N-CA-C	-5.87	95.14	111.00
27	Z1	218	LEU	CA-C-O	5.87	132.43	120.10
27	Z1	162	LYS	N-CA-C	-5.87	95.17	111.00
29	b1	7	SER	CB-CA-C	5.86	121.24	110.10
25	X1	637	LEU	C-N-CA	5.86	136.35	121.70
26	Y1	1238	PHE	CA-C-O	-5.85	107.82	120.10
26	Y2	1332	LYS	C-N-CA	5.84	136.31	121.70
27	Z2	45	TRP	CA-C-N	-5.84	104.34	117.20
27	Z2	218	LEU	CA-C-O	5.84	132.38	120.10
27	Z1	284	PRO	N-CD-CG	-5.83	94.45	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	b2	29	LYS	CB-CA-C	5.83	122.06	110.40
24	W2	818	PRO	N-CA-CB	5.83	110.29	103.30
29	b1	10	ILE	CA-C-N	-5.82	104.39	117.20
27	Z2	46	TYR	N-CA-C	5.82	126.71	111.00
29	b1	54	GLY	N-CA-C	5.81	127.63	113.10
17	Q2	89	TYR	N-CA-C	5.80	126.67	111.00
27	Z2	333	MET	CA-C-O	5.80	132.29	120.10
27	Z1	45	TRP	CA-C-N	-5.80	104.44	117.20
27	Z2	291	PRO	CA-N-CD	-5.80	103.39	111.50
27	Z2	34	ARG	NE-CZ-NH1	5.79	123.20	120.30
29	b1	18	ASP	N-CA-CB	5.79	121.02	110.60
27	Z1	387	MET	CB-CA-C	-5.79	98.83	110.40
26	Y2	1412	GLU	CA-C-O	-5.79	107.95	120.10
27	Z2	387	MET	CB-CA-C	-5.78	98.84	110.40
27	Z1	291	PRO	CA-N-CD	-5.78	103.41	111.50
27	Z1	46	TYR	N-CA-C	5.78	126.60	111.00
17	Q1	89	TYR	N-CA-C	5.78	126.59	111.00
29	b1	53	TYR	N-CA-CB	-5.78	100.20	110.60
25	X1	793	LEU	CB-CA-C	5.77	121.17	110.20
26	Y2	1238	PHE	CA-C-O	-5.77	107.99	120.10
17	Q2	840	PRO	N-CA-C	5.75	127.06	112.10
27	Z2	284	PRO	N-CD-CG	-5.75	94.58	103.20
26	Y2	1339	PHE	CB-CA-C	-5.74	98.91	110.40
26	Y1	1295	VAL	CB-CA-C	-5.74	100.49	111.40
26	Y1	1404	GLU	CB-CA-C	-5.74	98.92	110.40
25	X2	793	LEU	CB-CA-C	5.74	121.10	110.20
27	Z1	119	GLU	CB-CA-C	-5.73	98.94	110.40
24	W1	818	PRO	N-CA-CB	5.73	110.17	103.30
27	Z1	14	GLN	C-N-CA	5.72	136.01	121.70
27	Z2	14	GLN	C-N-CA	5.72	136.01	121.70
26	Y2	1295	VAL	CB-CA-C	-5.72	100.53	111.40
27	Z1	95	TRP	CA-C-O	5.71	132.09	120.10
27	Z1	333	MET	CA-C-O	5.71	132.09	120.10
27	Z2	264	ASN	CA-C-N	5.71	129.75	117.20
17	Q1	840	PRO	N-CA-C	5.70	126.93	112.10
27	Z2	344	TYR	N-CA-C	5.70	126.39	111.00
26	Y1	1339	PHE	CB-CA-C	-5.70	99.00	110.40
27	Z1	344	TYR	N-CA-C	5.70	126.39	111.00
27	Z2	406	ALA	C-N-CA	-5.70	110.33	122.30
27	Z1	189	LYS	CB-CA-C	5.69	121.78	110.40
29	b1	65	PHE	N-CA-CB	5.69	120.85	110.60
26	Y2	1404	GLU	CB-CA-C	-5.69	99.03	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	264	ASN	CA-C-N	5.68	129.71	117.20
27	Z2	444	THR	CB-CA-C	-5.68	96.26	111.60
27	Z2	42	ILE	CA-C-O	5.68	132.03	120.10
27	Z2	189	LYS	CB-CA-C	5.68	121.76	110.40
29	b2	80	TYR	CA-C-O	-5.67	108.19	120.10
27	Z1	444	THR	CB-CA-C	-5.67	96.30	111.60
27	Z2	95	TRP	CA-C-O	5.67	132.00	120.10
27	Z2	26	ILE	CB-CA-C	-5.66	100.28	111.60
25	X1	637	LEU	CA-C-O	5.66	131.97	120.10
27	Z1	406	ALA	C-N-CA	-5.65	110.43	122.30
27	Z1	45	TRP	C-N-CA	5.65	135.82	121.70
27	Z1	178	ARG	N-CA-CB	5.64	120.76	110.60
27	Z1	42	ILE	CA-C-O	5.64	131.95	120.10
27	Z1	42	ILE	CA-C-N	-5.64	104.80	117.20
27	Z2	45	TRP	C-N-CA	5.63	135.78	121.70
26	Y1	1126	LEU	N-CA-CB	-5.63	99.14	110.40
26	Y1	1320	LEU	CA-C-O	-5.62	108.29	120.10
27	Z2	178	ARG	N-CA-CB	5.61	120.70	110.60
27	Z2	366	LEU	CA-C-O	5.61	131.88	120.10
27	Z1	95	TRP	CA-C-N	-5.61	104.99	116.20
29	b2	72	GLU	N-CA-CB	-5.61	100.51	110.60
27	Z1	26	ILE	CB-CA-C	-5.60	100.39	111.60
27	Z1	288	ASN	N-CA-CB	-5.60	100.51	110.60
27	Z2	80	LEU	CB-CA-C	-5.60	99.56	110.20
27	Z2	314	ILE	CA-C-O	5.59	131.84	120.10
27	Z1	366	LEU	CA-C-O	5.59	131.84	120.10
27	Z1	314	ILE	CA-C-O	5.58	131.83	120.10
27	Z1	120	GLU	CA-C-O	-5.58	108.38	120.10
27	Z2	298	THR	N-CA-CB	-5.58	99.69	110.30
29	b2	67	SER	N-CA-CB	-5.58	102.12	110.50
27	Z2	288	ASN	N-CA-CB	-5.58	100.56	110.60
27	Z2	53	LEU	C-N-CA	5.57	135.63	121.70
27	Z2	291	PRO	N-CA-C	-5.57	97.62	112.10
20	S2	260	LEU	CB-CG-CD2	-5.57	101.54	111.00
27	Z2	95	TRP	CA-C-N	-5.57	105.07	116.20
27	Z1	291	PRO	N-CA-C	-5.56	97.65	112.10
27	Z2	23	PRO	CB-CA-C	5.56	125.90	112.00
17	Q2	1040	LEU	CB-CA-C	-5.56	99.64	110.20
27	Z1	342	TYR	N-CA-CB	-5.56	100.60	110.60
17	Q2	206	GLU	N-CA-CB	5.55	120.60	110.60
27	Z1	274	LYS	CB-CA-C	-5.55	99.30	110.40
27	Z1	298	THR	N-CA-CB	-5.55	99.75	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	80	LEU	CB-CA-C	-5.55	99.66	110.20
27	Z2	274	LYS	CB-CA-C	-5.55	99.31	110.40
27	Z2	42	ILE	CA-C-N	-5.54	105.00	117.20
20	S1	260	LEU	CB-CG-CD2	-5.54	101.58	111.00
27	Z1	169	PRO	CB-CA-C	-5.54	98.15	112.00
29	b2	36	GLN	CB-CA-C	-5.54	99.32	110.40
27	Z1	135	LYS	CB-CA-C	-5.54	99.33	110.40
27	Z2	342	TYR	N-CA-CB	-5.54	100.64	110.60
29	b1	77	VAL	N-CA-C	5.54	125.95	111.00
17	Q1	206	GLU	N-CA-CB	5.52	120.54	110.60
17	Q1	298	SER	CA-C-N	-5.51	105.07	117.20
29	b2	89	PHE	N-CA-CB	-5.51	100.68	110.60
27	Z1	42	ILE	N-CA-C	-5.51	96.12	111.00
17	Q2	298	SER	CA-C-N	-5.50	105.09	117.20
27	Z2	208	PHE	CA-C-O	-5.50	108.54	120.10
17	Q1	1040	LEU	CB-CA-C	-5.50	99.74	110.20
27	Z1	55	HIS	CB-CA-C	-5.50	99.40	110.40
18	R1	24	ILE	N-CA-C	5.50	125.85	111.00
27	Z2	42	ILE	N-CA-C	-5.50	96.16	111.00
27	Z2	197	LEU	CB-CA-C	5.50	120.64	110.20
29	b2	51	VAL	CB-CA-C	-5.50	100.95	111.40
27	Z1	208	PHE	CA-C-O	-5.50	108.56	120.10
27	Z2	135	LYS	CB-CA-C	-5.49	99.42	110.40
27	Z1	86	ASN	N-CA-C	5.48	125.80	111.00
27	Z2	169	PRO	CB-CA-C	-5.48	98.29	112.00
29	b2	67	SER	CB-CA-C	-5.48	99.68	110.10
19	R2	24	ILE	N-CA-C	5.48	125.79	111.00
26	Y2	1118	ALA	N-CA-CB	-5.47	102.44	110.10
27	Z1	53	LEU	C-N-CA	5.47	135.38	121.70
27	Z2	86	ASN	N-CA-C	5.47	125.77	111.00
27	Z2	55	HIS	CB-CA-C	-5.46	99.48	110.40
26	Y1	1335	SER	CB-CA-C	5.46	120.47	110.10
27	Z1	197	LEU	CB-CA-C	5.45	120.55	110.20
29	b1	10	ILE	CA-C-O	5.44	131.52	120.10
27	Z2	183	THR	C-N-CA	-5.41	108.17	121.70
29	b2	53	TYR	N-CA-CB	-5.41	100.86	110.60
27	Z2	181	ASP	N-CA-C	5.41	125.60	111.00
27	Z2	380	ILE	N-CA-C	5.41	125.60	111.00
26	Y2	1335	SER	CB-CA-C	5.40	120.37	110.10
27	Z1	173	PHE	N-CA-CB	-5.39	100.89	110.60
27	Z2	193	THR	CA-C-N	-5.39	105.33	117.20
27	Z2	173	PHE	N-CA-CB	-5.39	100.89	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	71	VAL	CB-CA-C	5.39	121.64	111.40
29	b2	57	TRP	C-N-CA	-5.38	108.24	121.70
26	Y2	1315	GLU	CB-CA-C	5.37	121.15	110.40
27	Z2	80	LEU	N-CA-CB	5.37	121.15	110.40
27	Z1	7	LEU	C-N-CA	5.37	135.12	121.70
27	Z1	286	THR	CA-C-N	-5.37	105.39	117.20
26	Y1	1315	GLU	CB-CA-C	5.37	121.13	110.40
27	Z1	193	THR	CA-C-N	-5.35	105.43	117.20
27	Z2	309	ASN	N-CA-C	5.35	125.44	111.00
25	X1	727	SER	CA-C-O	-5.34	108.89	120.10
27	Z1	71	VAL	CB-CA-C	5.33	121.53	111.40
26	Y2	1347	GLN	N-CA-CB	5.33	120.20	110.60
27	Z1	183	THR	C-N-CA	-5.33	108.37	121.70
27	Z1	216	LEU	C-N-CA	5.33	135.03	121.70
27	Z1	380	ILE	N-CA-C	5.33	125.40	111.00
27	Z1	181	ASP	N-CA-C	5.33	125.39	111.00
27	Z2	405	LEU	CB-CA-C	-5.33	100.08	110.20
26	Y1	1411	LEU	CA-C-O	-5.33	108.92	120.10
27	Z2	324	LEU	N-CA-CB	-5.32	99.75	110.40
29	b1	67	SER	N-CA-C	5.32	125.37	111.00
27	Z2	216	LEU	C-N-CA	5.32	135.00	121.70
27	Z2	362	SER	CA-C-O	-5.32	108.93	120.10
27	Z2	286	THR	CA-C-N	-5.32	105.51	117.20
27	Z2	118	GLU	CB-CA-C	-5.31	99.78	110.40
27	Z2	426	LEU	CB-CA-C	-5.31	100.11	110.20
27	Z2	297	TYR	CB-CG-CD2	-5.31	117.81	121.00
29	b1	11	VAL	N-CA-C	-5.31	96.67	111.00
29	b2	65	PHE	N-CA-CB	5.31	120.15	110.60
25	X2	648	LEU	CB-CA-C	5.31	120.28	110.20
27	Z1	426	LEU	CB-CA-C	-5.30	100.12	110.20
27	Z1	309	ASN	N-CA-C	5.30	125.31	111.00
29	b1	19	LYS	CB-CA-C	5.30	121.00	110.40
27	Z1	324	LEU	N-CA-CB	-5.29	99.81	110.40
27	Z1	347	SER	CB-CA-C	-5.29	100.04	110.10
29	b2	90	LYS	CA-C-O	5.29	131.21	120.10
26	Y1	1347	GLN	N-CA-CB	5.29	120.12	110.60
27	Z1	112	PHE	N-CA-CB	-5.29	101.08	110.60
27	Z2	239	SER	CB-CA-C	5.29	120.15	110.10
25	X2	808	ASP	CB-CG-OD1	5.29	123.06	118.30
27	Z1	65	LEU	CA-C-O	-5.29	109.00	120.10
27	Z1	118	GLU	CB-CA-C	-5.28	99.83	110.40
27	Z2	177	ALA	CB-CA-C	5.28	118.03	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z1	80	LEU	N-CA-CB	5.28	120.96	110.40
27	Z1	411	GLU	CA-C-N	-5.28	105.59	117.20
27	Z2	286	THR	C-N-CA	5.28	134.89	121.70
25	X1	648	LEU	CB-CA-C	5.28	120.22	110.20
29	b1	89	PHE	C-N-CA	5.27	134.88	121.70
27	Z2	63	LEU	CA-C-O	-5.27	109.04	120.10
27	Z2	112	PHE	N-CA-CB	-5.27	101.12	110.60
27	Z1	362	SER	CA-C-O	-5.26	109.04	120.10
27	Z1	239	SER	CB-CA-C	5.26	120.10	110.10
27	Z2	28	SER	CB-CA-C	-5.25	100.12	110.10
27	Z1	63	LEU	CA-C-O	-5.25	109.08	120.10
27	Z2	108	ALA	CB-CA-C	-5.24	102.23	110.10
27	Z1	84	ASN	CB-CA-C	5.24	120.88	110.40
27	Z1	641	PHE	CB-CA-C	5.24	120.88	110.40
27	Z1	45	TRP	CA-C-O	5.23	131.09	120.10
27	Z2	350	LEU	N-CA-C	5.23	125.12	111.00
27	Z1	286	THR	C-N-CA	5.23	134.77	121.70
27	Z2	406	ALA	CA-C-O	5.22	131.07	120.10
27	Z1	177	ALA	CB-CA-C	5.22	117.93	110.10
27	Z1	28	SER	CB-CA-C	-5.22	100.19	110.10
27	Z1	405	LEU	CB-CA-C	-5.22	100.29	110.20
25	X2	669	LEU	CB-CA-C	5.21	120.11	110.20
27	Z1	16	SER	CB-CA-C	5.21	120.00	110.10
27	Z2	411	GLU	CA-C-N	-5.21	105.73	117.20
27	Z1	289	PRO	C-N-CA	5.21	134.72	121.70
27	Z2	65	LEU	CA-C-O	-5.21	109.16	120.10
25	X1	669	LEU	CB-CA-C	5.21	120.09	110.20
27	Z2	84	ASN	CB-CA-C	5.21	120.81	110.40
27	Z2	289	PRO	C-N-CA	5.21	134.72	121.70
27	Z2	347	SER	CB-CA-C	-5.21	100.21	110.10
27	Z2	45	TRP	CA-C-O	5.20	131.03	120.10
27	Z1	72	ILE	N-CA-CB	-5.20	98.84	110.80
29	b1	53	TYR	CB-CG-CD1	5.20	124.12	121.00
25	X1	808	ASP	CB-CG-OD1	5.20	122.98	118.30
29	b1	89	PHE	CA-C-N	-5.20	105.77	117.20
27	Z1	297	TYR	CB-CG-CD2	-5.19	117.88	121.00
29	b1	57	TRP	C-N-CA	-5.19	108.72	121.70
27	Z1	406	ALA	CA-C-O	5.19	130.99	120.10
27	Z2	641	PHE	CB-CA-C	5.19	120.78	110.40
27	Z1	350	LEU	N-CA-C	5.18	125.00	111.00
27	Z1	213	PRO	CB-CA-C	-5.18	99.04	112.00
27	Z2	72	ILE	N-CA-CB	-5.18	98.89	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	X1	820	SER	N-CA-CB	-5.17	102.74	110.50
27	Z2	213	PRO	CB-CA-C	-5.17	99.07	112.00
27	Z1	108	ALA	CB-CA-C	-5.17	102.34	110.10
29	b2	90	LYS	C-N-CA	5.17	134.63	121.70
27	Z2	76	SER	CB-CA-C	-5.17	100.28	110.10
27	Z2	99	ASN	CA-C-N	-5.17	105.84	117.20
27	Z1	58	ASN	CA-C-N	-5.16	105.86	117.20
27	Z2	161	GLU	CA-C-N	-5.15	105.86	117.20
29	b2	82	GLY	CA-C-O	-5.15	111.33	120.60
27	Z2	58	ASN	CA-C-N	-5.15	105.87	117.20
29	b2	89	PHE	C-N-CA	5.15	134.57	121.70
27	Z1	390	ALA	CB-CA-C	5.14	117.81	110.10
27	Z1	76	SER	CB-CA-C	-5.14	100.34	110.10
17	Q1	1099	TYR	CA-CB-CG	-5.13	103.66	113.40
25	X2	820	SER	N-CA-CB	-5.12	102.81	110.50
26	Y1	1211	LEU	CA-C-O	5.12	130.85	120.10
27	Z1	286	THR	CA-C-O	5.12	130.85	120.10
27	Z1	413	LYS	N-CA-CB	5.12	119.81	110.60
27	Z2	142	ILE	C-N-CA	5.11	134.48	121.70
27	Z1	199	THR	N-CA-C	5.11	124.80	111.00
17	Q2	1099	TYR	CA-CB-CG	-5.11	103.69	113.40
27	Z1	142	ILE	CA-C-N	-5.11	105.96	117.20
27	Z2	413	LYS	N-CA-CB	5.11	119.79	110.60
29	b1	57	TRP	CG-CD1-NE1	-5.11	104.99	110.10
27	Z2	286	THR	CA-C-O	5.11	130.82	120.10
27	Z1	99	ASN	CA-C-N	-5.10	105.97	117.20
27	Z2	374	TYR	N-CA-CB	5.10	119.78	110.60
27	Z2	390	ALA	CB-CA-C	5.09	117.74	110.10
26	Y1	1211	LEU	C-N-CA	5.09	134.42	121.70
27	Z2	123	PRO	N-CA-CB	5.09	109.41	103.30
27	Z1	186	GLU	C-N-CA	5.08	134.41	121.70
29	b1	57	TRP	CA-C-O	-5.08	109.44	120.10
29	b2	57	TRP	CA-C-O	-5.08	109.44	120.10
27	Z1	219	ASN	CB-CA-C	5.08	120.55	110.40
27	Z1	426	LEU	N-CA-C	5.07	124.70	111.00
27	Z1	331	LEU	CB-CA-C	-5.07	100.56	110.20
27	Z2	383	GLN	CB-CA-C	-5.07	100.26	110.40
27	Z1	142	ILE	C-N-CA	5.07	134.37	121.70
27	Z2	54	TYR	CB-CA-C	-5.07	100.27	110.40
27	Z2	411	GLU	C-N-CA	5.07	134.37	121.70
27	Z2	99	ASN	N-CA-CB	-5.06	101.49	110.60
26	Y1	1411	LEU	N-CA-C	-5.06	97.34	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	Z2	219	ASN	CB-CA-C	5.06	120.52	110.40
27	Z1	382	GLN	CA-C-O	5.06	130.72	120.10
27	Z1	129	LYS	CB-CA-C	-5.06	100.29	110.40
29	b2	7	SER	C-N-CA	5.06	134.34	121.70
27	Z1	374	TYR	N-CA-CB	5.05	119.70	110.60
27	Z2	142	ILE	CA-C-N	-5.05	106.08	117.20
27	Z1	161	GLU	CA-C-N	-5.05	106.09	117.20
27	Z2	186	GLU	C-N-CA	5.05	134.32	121.70
27	Z2	199	THR	N-CA-C	5.05	124.64	111.00
27	Z2	331	LEU	CB-CA-C	-5.05	100.61	110.20
27	Z2	411	GLU	CA-C-O	5.05	130.70	120.10
26	Y1	1389	SER	CB-CA-C	-5.04	100.52	110.10
26	Y2	1389	SER	CB-CA-C	-5.04	100.52	110.10
27	Z1	54	TYR	CB-CA-C	-5.04	100.32	110.40
27	Z2	426	LEU	N-CA-C	5.04	124.61	111.00
27	Z1	52	SER	CB-CA-C	-5.04	100.53	110.10
27	Z1	411	GLU	CA-C-O	5.04	130.68	120.10
27	Z2	128	LYS	N-CA-CB	-5.04	101.53	110.60
21	T2	218	LEU	CA-CB-CG	5.04	126.88	115.30
27	Z1	100	VAL	CA-CB-CG1	5.04	118.45	110.90
26	Y1	1410	GLN	CB-CA-C	5.03	120.47	110.40
26	Y2	1410	GLN	CB-CA-C	5.03	120.47	110.40
27	Z2	626	GLY	N-CA-C	-5.03	100.52	113.10
27	Z1	128	LYS	N-CA-CB	-5.03	101.55	110.60
27	Z1	383	GLN	CB-CA-C	-5.03	100.35	110.40
25	X2	637	LEU	C-N-CA	5.02	134.25	121.70
26	Y2	1364	ASN	CB-CA-C	5.02	120.44	110.40
27	Z1	176	ASP	N-CA-CB	5.02	119.63	110.60
18	R1	24	ILE	CG1-CB-CG2	5.02	122.44	111.40
19	R2	24	ILE	CG1-CB-CG2	5.01	122.42	111.40
26	Y1	1119	GLU	CA-C-O	-5.01	109.58	120.10
27	Z1	199	THR	CB-CA-C	-5.01	98.08	111.60
27	Z1	271	ASP	CB-CG-OD2	-5.01	113.80	118.30
27	Z2	199	THR	CB-CA-C	-5.01	98.08	111.60
27	Z2	382	GLN	CA-C-O	5.01	130.62	120.10

All (26) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
25	X1	742	GLN	CA
25	X2	788	ASP	CA
26	Y1	1266	ALA	CA

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Mol	Chain	Res	Type	Atom
26	Y1	1333	ASP	CA
26	Y2	1212	ARG	CA
26	Y2	1383	ALA	CA
26	Y2	1430	ASP	CA
27	Z1	15	ALA	CA
27	Z1	98	SER	CA
27	Z1	123	PRO	CA
27	Z1	124	LYS	CA
27	Z1	149	ASP	CA
27	Z1	288	ASN	CA
27	Z1	378	ASP	CA
27	Z1	406	ALA	CA
27	Z1	678	ASN	CA
27	Z2	15	ALA	CA
27	Z2	98	SER	CA
27	Z2	149	ASP	CA
27	Z2	288	ASN	CA
27	Z2	378	ASP	CA
27	Z2	406	ALA	CA
27	Z2	451	SER	CA
27	Z2	523	ASN	CA
27	Z2	611	GLN	CA
29	b2	7	SER	CA

All (122) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A1	891	GLY	Mainchain
1	A1	976	LEU	Peptide
1	A2	891	GLY	Mainchain
1	A2	976	LEU	Peptide
1	A3	891	GLY	Mainchain
1	A3	976	LEU	Peptide
1	A4	891	GLY	Mainchain
1	A4	976	LEU	Peptide
17	Q1	198	LEU	Peptide
17	Q2	198	LEU	Peptide
18	R1	151	GLY	Mainchain
19	R2	151	GLY	Mainchain
20	S1	371	PHE	Peptide
20	S1	392	TYR	Peptide
20	S2	371	PHE	Peptide

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Mol	Chain	Res	Type	Group
20	S2	392	TYR	Peptide
24	W1	190	ASP	Mainchain
24	W1	264	ASP	Sidechain
24	W2	190	ASP	Mainchain
24	W2	264	ASP	Sidechain
25	X1	637	LEU	Peptide,Mainchain
25	X1	726	VAL	Peptide
25	X1	742	GLN	Mainchain
25	X1	777	ASN	Peptide
25	X2	637	LEU	Peptide,Mainchain
25	X2	726	VAL	Peptide,Mainchain
25	X2	742	GLN	Mainchain
25	X2	777	ASN	Peptide,Mainchain
25	X2	788	ASP	Peptide,Mainchain
26	Y1	1117	TYR	Mainchain
26	Y1	1125	ASP	Peptide,Mainchain
26	Y1	1211	LEU	Peptide,Mainchain
26	Y1	1238	PHE	Peptide
26	Y1	1266	ALA	Mainchain
26	Y1	1320	LEU	Peptide,Mainchain
26	Y1	1371	VAL	Peptide
26	Y1	1382	VAL	Peptide,Mainchain
26	Y1	1411	LEU	Peptide
26	Y1	1429	LYS	Peptide,Mainchain
26	Y1	1455	ASN	Peptide
26	Y2	1117	TYR	Peptide,Mainchain
26	Y2	1125	ASP	Peptide,Mainchain
26	Y2	1211	LEU	Mainchain
26	Y2	1266	ALA	Peptide,Mainchain
26	Y2	1320	LEU	Peptide
26	Y2	1332	LYS	Mainchain
26	Y2	1371	VAL	Peptide
26	Y2	1382	VAL	Peptide,Mainchain
26	Y2	1411	LEU	Peptide
26	Y2	1429	LYS	Mainchain
26	Y2	1455	ASN	Peptide
27	Z1	119	GLU	Peptide
27	Z1	123	PRO	Peptide,Mainchain
27	Z1	15	ALA	Peptide,Mainchain
27	Z1	210	PRO	Peptide,Mainchain
27	Z1	23	PRO	Peptide,Mainchain
27	Z1	283	GLY	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
27	Z1	288	ASN	Mainchain
27	Z1	347	SER	Peptide
27	Z1	451	SER	Peptide
27	Z1	522	GLU	Peptide,Mainchain
27	Z1	582	GLU	Peptide,Mainchain
27	Z1	611	GLN	Peptide
27	Z1	640	GLN	Peptide
27	Z1	642	ASN	Peptide,Mainchain
27	Z1	668	GLU	Peptide
27	Z1	7	LEU	Mainchain
27	Z2	119	GLU	Peptide
27	Z2	123	PRO	Peptide,Mainchain
27	Z2	15	ALA	Peptide
27	Z2	210	PRO	Peptide,Mainchain
27	Z2	23	PRO	Mainchain
27	Z2	283	GLY	Peptide,Mainchain
27	Z2	288	ASN	Mainchain
27	Z2	347	SER	Peptide
27	Z2	451	SER	Mainchain
27	Z2	522	GLU	Mainchain
27	Z2	582	GLU	Peptide,Mainchain
27	Z2	611	GLN	Peptide
27	Z2	625	HIS	Mainchain
27	Z2	640	GLN	Peptide
27	Z2	642	ASN	Peptide,Mainchain
27	Z2	668	GLU	Peptide
27	Z2	678	ASN	Peptide,Mainchain
27	Z2	7	LEU	Peptide,Mainchain
29	b1	35	TYR	Mainchain
29	b1	54	GLY	Mainchain
29	b1	7	SER	Peptide,Mainchain
29	b2	54	GLY	Mainchain
29	b2	7	SER	Peptide,Mainchain
29	b2	90	LYS	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	9703	0	9614	513	0
1	A2	9730	0	9635	503	0
1	A3	9730	0	9637	432	0
1	A4	9703	0	9619	329	0
2	B1	111	0	127	1	0
2	B2	111	0	127	1	0
2	B3	111	0	127	1	0
2	B4	111	0	127	1	0
3	C1	138	0	144	0	0
3	C2	138	0	144	0	0
3	C3	138	0	144	0	0
3	C4	138	0	144	0	0
4	D1	5589	0	5542	199	0
4	D2	5589	0	5549	44	0
4	D3	5589	0	5536	365	0
4	D4	5589	0	5548	57	0
5	E1	137	0	130	2	0
5	E2	137	0	130	2	0
5	E3	137	0	130	5	0
5	E4	137	0	130	2	0
6	F1	12779	0	12903	498	0
6	F2	12779	0	12920	194	0
7	G1	438	0	411	127	0
7	G2	438	0	413	84	0
8	H1	94	0	84	0	0
8	H2	94	0	84	0	0
9	I1	12307	0	12324	1356	0
9	I2	12307	0	12316	1831	0
10	J1	504	0	485	96	0
10	J2	504	0	487	50	0
11	K1	73	0	82	11	0
11	K2	73	0	82	0	0
12	L1	15	0	11	0	0
12	L2	15	0	11	0	0
13	M1	1372	0	1353	248	0
13	M2	1372	0	1363	29	0
13	M3	1372	0	1341	458	0
13	M4	1372	0	1363	18	0
14	N1	1401	0	1398	117	0
14	N2	1401	0	1397	40	0
14	N3	1401	0	1393	297	0
14	N4	1401	0	1393	21	0
15	O1	1971	0	1943	586	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	O2	1971	0	1966	166	0
15	O3	1971	0	1954	662	0
15	O4	1971	0	1966	111	0
16	P1	311	0	334	23	0
16	P2	311	0	334	2	0
16	P3	311	0	323	205	0
16	P4	311	0	334	2	0
17	Q1	8392	0	8304	1810	0
17	Q2	8359	0	8285	1714	0
18	R1	5448	0	5455	611	0
19	R2	5069	0	5067	518	0
20	S1	3805	0	3498	138	0
20	S2	3805	0	3499	118	0
21	T1	2160	0	2096	95	0
21	T2	2160	0	2095	73	0
22	U1	2438	0	2368	384	0
22	U2	2438	0	2378	56	0
23	V1	4535	0	4073	101	0
23	V2	4535	0	4073	102	0
24	W1	6622	0	5897	174	0
24	W2	6622	0	5907	75	0
25	X1	1321	0	1273	698	0
25	X2	1321	0	1271	910	0
26	Y1	1590	0	1630	776	0
26	Y2	1590	0	1621	1072	0
27	Z1	4990	0	4921	2638	0
27	Z2	4990	0	4936	2480	0
28	a1	1165	0	1181	0	0
28	a2	1165	0	1181	0	0
29	b1	691	0	696	0	0
29	b2	691	0	693	0	0
All	All	221308	0	217450	17039	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 40.

All (17039) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:45:TRP:CZ2	27:Z1:95:TRP:CZ3	1.76	1.74
26:Y1:1236:ASP:HA	26:Y1:1239:PHE:CE2	1.19	1.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:45:TRP:CZ2	27:Z2:95:TRP:CZ3	1.76	1.68
25:X2:815:GLU:CG	26:Y2:1402:LEU:HD21	1.20	1.68
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:CE3	1.81	1.68
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CE2	1.21	1.67
26:Y1:1211:LEU:HD22	26:Y1:1214:ILE:CD1	1.21	1.67
9:I2:1305:LEU:CB	15:O3:264:ILE:HD11	1.24	1.66
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:CE3	1.81	1.66
17:Q1:384:ASN:CB	17:Q1:509:ALA:H	1.04	1.66
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:HE3	0.99	1.66
1:A2:1224:PRO:HG2	1:A1:648:TYR:CZ	1.24	1.66
25:X2:692:LYS:CG	27:Z2:431:TRP:CZ2	1.75	1.65
25:X2:778:LYS:HD3	25:X2:795:LYS:CB	1.18	1.65
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CB	1.07	1.64
27:Z1:227:LEU:HD23	27:Z1:256:VAL:CG1	1.24	1.64
26:Y2:1236:ASP:HA	26:Y2:1239:PHE:CE2	1.15	1.64
9:I1:900:ARG:CB	13:M1:580:LYS:HB2	1.23	1.64
9:I2:1305:LEU:HD22	15:O3:264:ILE:CG1	1.20	1.64
26:Y2:1332:LYS:HA	27:Z1:109:PHE:CZ	1.27	1.64
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:CE	1.24	1.63
27:Z1:137:TYR:CB	27:Z1:269:LYS:HD2	1.20	1.63
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:HE3	0.99	1.63
9:I2:982:GLN:CB	15:O3:179:LEU:HD11	1.26	1.63
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:CE	1.28	1.63
27:Z2:12:ILE:HG23	27:Z2:37:PHE:CE2	1.30	1.62
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CE2	1.21	1.62
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:HB2	1.28	1.62
9:I1:1051:LYS:HG3	14:N1:289:PHE:CZ	1.30	1.62
27:Z1:241:THR:HB	27:Z1:246:LYS:CE	1.26	1.62
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:HG13	1.34	1.61
9:I1:1246:ILE:CG1	15:O1:255:GLY:HA3	1.28	1.61
9:I2:1049:LEU:CB	14:N3:293:LYS:HA	1.20	1.61
27:Z2:216:LEU:CD1	27:Z2:272:ILE:HD11	1.16	1.61
22:U1:243:PHE:CD2	27:Z1:657:TYR:HA	1.26	1.61
22:U1:340:LYS:HE3	27:Z1:646:HIS:CE1	1.18	1.61
25:X1:815:GLU:HG2	26:Y1:1402:LEU:CD2	1.30	1.61
1:A4:827:ILE:HG21	1:A4:849:SER:CA	1.26	1.61
27:Z1:12:ILE:HG23	27:Z1:37:PHE:CE2	1.30	1.61
27:Z2:137:TYR:CB	27:Z2:269:LYS:HD2	1.20	1.60
27:Z2:69:PHE:CA	27:Z2:84:ASN:HD21	1.06	1.60
1:A2:1201:ARG:HA	1:A1:648:TYR:CE1	1.10	1.60
9:I2:1107:SER:CB	13:M3:615:PRO:HG3	1.28	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:434:GLN:HG3	27:Z2:580:LYS:CE	1.23	1.60
25:X2:655:PHE:CZ	27:Z2:545:LEU:HB3	1.36	1.60
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:CZ	1.27	1.60
9:I2:976:ARG:CZ	14:N3:293:LYS:HG3	1.31	1.59
27:Z1:69:PHE:CA	27:Z1:84:ASN:HD21	1.07	1.59
9:I2:809:HIS:CD2	15:O3:243:LEU:HB2	1.16	1.59
25:X1:655:PHE:CZ	27:Z1:545:LEU:HB3	1.36	1.59
1:A2:1328:ARG:CD	4:D1:976:ARG:HE	0.95	1.59
9:I2:976:ARG:CA	14:N3:297:ALA:HA	1.11	1.59
9:I2:1103:LEU:CB	13:M3:611:LYS:HE3	1.13	1.59
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CZ	1.75	1.59
9:I2:964:SER:HA	16:P3:149:ARG:CA	1.25	1.59
25:X1:648:LEU:HB3	27:Z2:547:VAL:CG1	1.17	1.59
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:CE	1.28	1.59
1:A1:827:ILE:HG21	1:A1:849:SER:CA	1.26	1.59
9:I1:911:PRO:CG	15:O1:202:LEU:HD12	1.11	1.58
9:I2:1305:LEU:HB3	15:O3:264:ILE:CD1	1.24	1.58
1:A2:1221:ILE:HD12	1:A1:600:LYS:CE	1.17	1.58
9:I1:1606:GLU:CG	9:I2:1669:ARG:CZ	1.79	1.58
27:Z1:45:TRP:CZ2	27:Z1:95:TRP:CH2	1.89	1.58
26:Y2:1362:LEU:CG	26:Y2:1387:LYS:HE2	1.12	1.58
17:Q2:891:ILE:HD13	19:R2:715:LEU:CD2	1.19	1.57
18:R1:435:PHE:CD2	18:R1:448:ILE:HD11	1.33	1.57
26:Y1:1211:LEU:CD2	26:Y1:1214:ILE:HD12	1.22	1.57
27:Z2:241:THR:HB	27:Z2:246:LYS:CE	1.27	1.57
1:A3:1223:GLU:HB2	1:A4:648:TYR:CG	1.36	1.57
25:X2:679:LEU:HD11	26:Y2:1278:CYS:SG	1.43	1.57
27:Z2:227:LEU:HD23	27:Z2:256:VAL:CG1	1.24	1.57
9:I1:1051:LYS:HB3	14:N1:293:LYS:CE	1.19	1.57
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CB	1.67	1.57
27:Z1:216:LEU:CD1	27:Z1:272:ILE:HD11	1.16	1.57
9:I1:900:ARG:CG	13:M1:577:LEU:HA	1.30	1.57
17:Q2:891:ILE:CD1	19:R2:715:LEU:HD21	1.22	1.57
9:I2:976:ARG:NH2	14:N3:293:LYS:CD	1.67	1.57
9:I2:1107:SER:HB3	13:M3:615:PRO:CG	1.09	1.57
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:CD2	1.67	1.57
9:I2:1103:LEU:HB2	13:M3:611:LYS:CE	1.17	1.56
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:HB2	1.33	1.56
1:A3:1223:GLU:CG	1:A4:648:TYR:CD2	1.76	1.56
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:CG1	1.04	1.56
6:F1:135:VAL:CG1	9:I1:1336:MET:CG	1.75	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:982:GLN:CB	15:O3:179:LEU:CD1	1.78	1.56
25:X2:648:LEU:HD11	27:Z2:535:PHE:CE1	1.36	1.56
27:Z1:129:LYS:HE3	27:Z1:185:LEU:CD1	1.11	1.56
27:Z2:45:TRP:CZ2	27:Z2:95:TRP:CH2	1.89	1.56
25:X1:742:GLN:CG	25:X1:743:GLN:HG2	1.17	1.56
25:X2:774:ASN:HB3	25:X2:797:LEU:CD1	1.35	1.56
9:I2:1253:GLY:CA	14:N3:410:MET:H	1.12	1.55
25:X1:648:LEU:HD11	27:Z1:535:PHE:CE1	1.36	1.55
25:X1:679:LEU:HD11	26:Y1:1278:CYS:SG	1.43	1.55
25:X1:795:LYS:CE	27:Z1:666:GLU:HA	1.35	1.55
25:X1:795:LYS:HG3	27:Z1:665:ILE:CG2	1.30	1.55
27:Z2:45:TRP:CE2	27:Z2:95:TRP:CZ3	1.95	1.55
9:I2:809:HIS:CD2	15:O3:243:LEU:CB	1.90	1.55
27:Z2:217:LEU:CD2	27:Z2:269:LYS:HD3	1.08	1.55
9:I2:906:GLY:CA	13:M3:573:ARG:HD2	1.12	1.55
22:U1:299:GLU:CB	27:Z1:652:GLN:HB3	1.30	1.55
25:X1:815:GLU:CG	26:Y1:1402:LEU:HD21	1.20	1.55
22:U1:299:GLU:HB2	27:Z1:652:GLN:CB	1.14	1.55
25:X2:815:GLU:HG2	26:Y2:1402:LEU:CD2	1.30	1.55
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:HD11	1.02	1.55
1:A2:1229:VAL:CG2	1:A1:640:LEU:HA	1.26	1.54
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:HD2	1.05	1.54
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CB	1.67	1.54
1:A4:521:ASN:CB	4:D3:1019:ARG:HH21	1.13	1.54
9:I1:1051:LYS:CD	14:N1:289:PHE:CE2	1.88	1.54
9:I2:1168:ALA:HB2	15:O3:270:THR:CA	1.34	1.54
27:Z1:45:TRP:CE2	27:Z1:95:TRP:CZ3	1.94	1.54
27:Z2:129:LYS:HE3	27:Z2:185:LEU:CD1	1.11	1.54
9:I1:1051:LYS:HG3	14:N1:289:PHE:CE2	1.43	1.54
9:I2:806:VAL:CG1	15:O3:247:TRP:CB	1.82	1.54
22:U1:289:GLN:CG	25:X1:794:ILE:HA	1.15	1.54
27:Z2:198:ASN:CA	27:Z2:198:ASN:N	1.69	1.54
27:Z2:216:LEU:CG	27:Z2:272:ILE:HD11	1.11	1.54
9:I1:838:GLU:HG2	15:O1:198:ARG:CZ	1.12	1.54
24:W1:400:LYS:HB3	24:W1:720:PHE:CB	1.29	1.54
22:U1:289:GLN:HG3	25:X1:794:ILE:CA	1.36	1.54
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:HD11	1.02	1.54
9:I1:1606:GLU:CG	9:I2:1669:ARG:NH1	1.70	1.53
27:Z1:387:MET:HE3	27:Z1:391:SER:CB	1.39	1.53
27:Z2:282:GLN:C	27:Z2:282:GLN:CA	1.76	1.53
9:I1:1051:LYS:HZ1	14:N1:290:VAL:CA	1.03	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:26:ILE:HB	27:Z1:440:MET:SD	1.48	1.53
27:Z2:227:LEU:CD2	27:Z2:256:VAL:HG12	1.07	1.53
9:I2:982:GLN:CG	15:O3:179:LEU:CD1	1.84	1.53
27:Z1:216:LEU:CG	27:Z1:272:ILE:HD11	1.12	1.53
9:I2:1099:ARG:C	15:O3:272:SER:HB3	1.26	1.53
25:X1:790:ASN:CA	27:Z1:669:THR:C	1.76	1.53
27:Z2:363:LEU:CD1	27:Z2:373:LEU:HD21	1.38	1.53
27:Z2:581:PHE:CA	27:Z2:581:PHE:N	1.71	1.52
22:U1:289:GLN:CD	25:X1:794:ILE:HG12	1.28	1.52
25:X1:648:LEU:CB	27:Z2:547:VAL:HG11	1.07	1.52
25:X2:778:LYS:CG	25:X2:795:LYS:H	1.20	1.52
27:Z1:227:LEU:CD2	27:Z1:256:VAL:CG1	1.75	1.52
9:I2:919:ALA:CB	16:P3:157:GLU:HA	1.39	1.52
1:A4:520:GLU:CG	4:D3:1017:THR:HG23	1.33	1.52
9:I2:917:TYR:CE2	15:O3:190:ARG:NH1	1.75	1.52
26:Y1:1383:ALA:C	26:Y2:1361:GLU:HA	1.27	1.52
27:Z1:217:LEU:CD2	27:Z1:269:LYS:HD3	1.08	1.52
27:Z2:241:THR:CB	27:Z2:246:LYS:HE2	1.40	1.52
17:Q2:922:LEU:HD21	19:R2:688:LEU:CB	1.35	1.51
27:Z2:10:LEU:CD2	27:Z2:431:TRP:CH2	1.93	1.51
9:I1:1051:LYS:HE2	14:N1:289:PHE:CD2	1.39	1.51
9:I1:1667:GLN:CG	9:I2:1669:ARG:HB3	1.34	1.51
25:X2:774:ASN:ND2	25:X2:798:ASN:CB	1.71	1.51
27:Z1:216:LEU:CG	27:Z1:272:ILE:CD1	1.86	1.51
27:Z1:381:ILE:CG2	27:Z1:417:ILE:HD11	1.38	1.51
27:Z2:211:PHE:CA	27:Z2:211:PHE:N	1.68	1.51
9:I1:900:ARG:H	13:M1:580:LYS:CD	1.20	1.51
27:Z1:209:TYR:HB3	27:Z1:210:PRO:CD	1.12	1.51
1:A3:1332:ARG:CD	4:D3:899:THR:CG2	1.89	1.51
25:X2:692:LYS:HG2	27:Z2:431:TRP:CZ2	1.00	1.51
25:X2:699:TYR:CB	27:Z2:49:LEU:HD12	1.39	1.51
1:A2:1204:TRP:NE1	1:A1:599:ARG:HA	1.18	1.51
9:I1:900:ARG:HB2	13:M1:580:LYS:CB	1.41	1.51
9:I1:977:ASN:CA	15:O1:177:HIS:H	1.16	1.51
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CD1	1.91	1.51
27:Z1:227:LEU:CD2	27:Z1:256:VAL:HG12	1.07	1.51
27:Z1:403:ASN:H	27:Z2:262:ASN:CG	1.07	1.51
27:Z2:216:LEU:CG	27:Z2:272:ILE:CD1	1.86	1.51
25:X2:789:GLU:CA	25:X2:789:GLU:N	1.71	1.50
1:A2:1221:ILE:CD1	1:A1:600:LYS:HE3	1.40	1.50
6:F1:135:VAL:HG11	9:I1:1336:MET:CB	1.41	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:822:LYS:CA	27:Z1:262:ASN:ND2	1.69	1.50
27:Z1:198:ASN:CA	27:Z1:198:ASN:N	1.69	1.50
27:Z2:342:TYR:CE2	27:Z2:344:TYR:HD2	1.27	1.50
1:A3:1087:GLY:N	4:D3:1096:TYR:HE1	1.04	1.50
7:G2:249:ASP:CA	15:O4:251:ILE:HG12	1.31	1.50
9:I2:976:ARG:HB2	14:N3:297:ALA:CB	1.07	1.50
27:Z1:10:LEU:CD2	27:Z1:431:TRP:CH2	1.93	1.50
27:Z2:303:ALA:CB	27:Z2:363:LEU:HD22	1.39	1.50
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:CD	1.21	1.50
26:Y2:1291:LEU:CD1	27:Z2:581:PHE:HD1	1.23	1.50
1:A2:1328:ARG:HB3	4:D1:976:ARG:NH1	1.21	1.50
6:F1:1806:ARG:CA	14:N2:412:ASN:ND2	1.68	1.50
9:I2:843:GLU:CD	15:O3:191:ARG:HD2	1.31	1.50
27:Z1:93:VAL:C	27:Z1:94:PRO:CD	1.81	1.50
27:Z1:209:TYR:CE1	27:Z1:335:MET:HB3	1.45	1.50
27:Z2:209:TYR:HB3	27:Z2:210:PRO:CD	1.12	1.50
9:I2:964:SER:CA	16:P3:149:ARG:HA	1.37	1.49
9:I2:1098:LEU:HB3	15:O3:269:ILE:CA	1.22	1.49
9:I2:1255:HIS:HD2	14:N3:407:ALA:CA	1.21	1.49
25:X1:700:ILE:HB	26:Y1:1298:TYR:CE1	0.99	1.49
25:X2:700:ILE:HB	26:Y2:1298:TYR:CE1	1.00	1.49
25:X2:815:GLU:CG	26:Y2:1402:LEU:CD2	1.84	1.49
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CD1	1.91	1.49
27:Z1:581:PHE:CA	27:Z1:581:PHE:N	1.71	1.49
22:U1:243:PHE:CD2	27:Z1:657:TYR:CA	1.96	1.49
24:W1:403:ASP:HB2	24:W1:723:PHE:C	1.31	1.49
27:Z1:282:GLN:C	27:Z1:282:GLN:CA	1.76	1.49
27:Z1:363:LEU:CD1	27:Z1:373:LEU:HD21	1.38	1.49
10:J1:247:ASP:HB3	15:O1:276:GLY:C	1.18	1.49
25:X1:717:LYS:CE	26:Y1:1320:LEU:CD1	1.88	1.49
6:F2:1267:ARG:NH1	15:O4:262:ASP:CB	1.76	1.49
9:I1:1311:LEU:CD2	15:O1:266:GLN:HB2	1.41	1.49
25:X2:690:GLN:NE2	27:Z2:581:PHE:CE2	1.78	1.49
27:Z1:211:PHE:N	27:Z1:211:PHE:CA	1.67	1.49
25:X2:726:VAL:C	25:X2:726:VAL:HG12	1.23	1.49
26:Y1:1291:LEU:CD1	27:Z1:581:PHE:HD1	1.23	1.49
27:Z1:342:TYR:CE2	27:Z1:344:TYR:HD2	1.27	1.49
25:X1:700:ILE:CB	26:Y1:1298:TYR:HE1	1.23	1.48
25:X1:717:LYS:HE2	26:Y1:1320:LEU:CD1	1.01	1.48
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:HB2	1.48	1.48
27:Z1:26:ILE:HG22	27:Z1:440:MET:CE	1.42	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1225:PRO:CB	1:A1:640:LEU:HD22	1.40	1.48
9:I2:1049:LEU:HB3	14:N3:293:LYS:CA	1.43	1.48
25:X1:690:GLN:NE2	27:Z1:581:PHE:CE2	1.78	1.48
27:Z2:217:LEU:CD2	27:Z2:269:LYS:CD	1.88	1.48
6:F2:142:ALA:C	9:I2:1395:LEU:CD2	1.81	1.48
9:I2:968:PRO:HB2	14:N3:303:SER:CB	1.40	1.48
9:I2:1255:HIS:CD2	14:N3:407:ALA:CA	1.91	1.48
25:X2:717:LYS:HE2	26:Y2:1320:LEU:CD1	1.02	1.48
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HE2	1.20	1.48
27:Z1:241:THR:CB	27:Z1:246:LYS:HE2	1.40	1.48
27:Z1:389:TRP:CE3	27:Z1:393:LEU:HD12	1.43	1.48
18:R1:402:GLY:CA	18:R1:444:ALA:HB2	1.43	1.48
25:X2:717:LYS:CE	26:Y2:1320:LEU:CD1	1.88	1.48
27:Z1:27:PHE:CZ	27:Z1:36:VAL:HG21	1.49	1.48
27:Z1:137:TYR:CA	27:Z1:217:LEU:HD21	1.44	1.48
27:Z1:283:GLY:CA	27:Z1:283:GLY:N	1.75	1.48
27:Z2:209:TYR:CE1	27:Z2:335:MET:HB3	1.45	1.48
9:I2:925:LEU:HD11	15:O3:186:PHE:CB	1.37	1.48
9:I2:981:VAL:CG2	15:O3:175:SER:HB3	1.20	1.48
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CA	1.97	1.48
27:Z1:303:ALA:CB	27:Z1:363:LEU:HD22	1.39	1.48
1:A2:1201:ARG:CA	1:A1:648:TYR:CE1	1.98	1.47
9:I1:910:LYS:C	13:M1:545:GLU:HG2	1.33	1.47
25:X2:695:GLN:CB	27:Z2:48:VAL:HG11	1.03	1.47
25:X2:700:ILE:CB	26:Y2:1298:TYR:CE1	1.93	1.47
27:Z1:188:SER:HB2	27:Z1:195:TYR:CE2	1.50	1.47
1:A3:1088:ASN:O	4:D3:1101:HIS:CE1	1.67	1.47
6:F1:990:GLN:NE2	9:I1:1394:ASN:ND2	1.61	1.47
9:I1:1051:LYS:CG	14:N1:289:PHE:CE2	1.93	1.47
27:Z1:217:LEU:CD2	27:Z1:269:LYS:CD	1.87	1.47
6:F2:142:ALA:C	9:I2:1395:LEU:HD21	1.16	1.47
9:I2:1103:LEU:CD1	13:M3:611:LYS:HB3	0.99	1.47
26:Y1:1443:MET:HE3	27:Z1:332:GLU:CD	1.34	1.47
1:A3:1200:ARG:CG	1:A4:591:ASP:HB3	1.44	1.46
10:J1:248:VAL:HG22	15:O1:273:ASP:CB	1.44	1.46
27:Z2:389:TRP:CE3	27:Z2:393:LEU:HD12	1.43	1.46
9:I2:1049:LEU:HD12	16:P3:141:ALA:C	1.33	1.46
25:X1:700:ILE:CB	26:Y1:1298:TYR:CE1	1.92	1.46
1:A3:1332:ARG:HH22	4:D3:902:SER:CB	1.28	1.46
9:I1:917:TYR:CD1	13:M1:534:GLN:OE1	1.65	1.46
9:I1:1051:LYS:N	14:N1:293:LYS:HD3	1.19	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:778:LYS:CD	25:X2:795:LYS:H	1.24	1.46
25:X2:778:LYS:CD	25:X2:795:LYS:CB	1.90	1.46
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:CE	1.89	1.46
9:I1:967:SER:HB3	15:O1:178:ASP:CA	1.46	1.46
9:I1:1667:GLN:CD	9:I2:1669:ARG:HB3	1.35	1.46
25:X2:695:GLN:NE2	27:Z2:431:TRP:CE2	1.80	1.46
25:X2:699:TYR:HA	27:Z2:49:LEU:CD1	1.42	1.46
25:X1:795:LYS:CG	27:Z1:665:ILE:HG22	1.45	1.46
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:NE1	1.13	1.46
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:HE2	1.23	1.46
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:NE1	1.13	1.46
26:Y2:1332:LYS:CA	27:Z1:109:PHE:CZ	1.98	1.46
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:HB2	1.48	1.46
26:Y2:1431:MET:HA	26:Y2:1434:PHE:CD2	1.51	1.46
27:Z2:93:VAL:C	27:Z2:94:PRO:CD	1.80	1.46
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CE1	1.49	1.45
6:F1:142:ALA:CB	9:I1:1395:LEU:N	1.78	1.45
26:Y1:1383:ALA:N	26:Y2:1364:ASN:CB	1.76	1.45
26:Y2:1332:LYS:CG	27:Z1:97:TYR:HB2	1.42	1.45
27:Z1:213:PRO:CD	27:Z1:213:PRO:N	1.76	1.45
27:Z2:27:PHE:CZ	27:Z2:36:VAL:HG21	1.49	1.45
27:Z2:117:ASP:CA	27:Z2:124:LYS:NZ	1.77	1.45
1:A2:1201:ARG:CA	1:A1:648:TYR:HE1	1.26	1.45
1:A3:1332:ARG:HD2	4:D3:899:THR:CG2	0.98	1.45
1:A3:1402:ASP:C	4:D3:824:ARG:HD3	1.33	1.45
6:F1:273:ALA:H	9:I1:1209:THR:N	0.97	1.45
9:I2:976:ARG:NH2	14:N3:293:LYS:CG	1.79	1.45
25:X2:693:ILE:HD12	27:Z2:7:LEU:CD1	1.44	1.45
25:X2:778:LYS:HD3	25:X2:795:LYS:CA	1.44	1.45
26:Y2:1334:LEU:CD2	27:Z1:110:GLN:H	1.28	1.45
27:Z2:325:ILE:HG23	27:Z2:350:LEU:CD1	1.45	1.45
9:I2:1029:LEU:CG	13:M3:613:ASP:HB3	1.27	1.45
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CD1	1.52	1.45
27:Z2:137:TYR:CA	27:Z2:217:LEU:HD21	1.44	1.45
9:I2:1103:LEU:HD12	13:M3:611:LYS:CB	1.03	1.45
25:X1:665:TRP:HE1	26:Y1:1267:GLU:CB	1.06	1.45
9:I2:1102:GLN:H	15:O3:272:SER:CB	1.12	1.45
6:F1:159:ALA:C	9:I1:1335:LYS:HG3	1.28	1.44
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:HE2	1.27	1.44
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:CA	1.45	1.44
27:Z2:129:LYS:CE	27:Z2:185:LEU:CG	1.95	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:227:LEU:CD2	27:Z2:256:VAL:CG1	1.75	1.44
9:I1:1051:LYS:CA	14:N1:293:LYS:HD3	1.46	1.44
22:U1:243:PHE:CG	27:Z1:657:TYR:HA	1.48	1.44
26:Y1:1430:ASP:HB3	26:Y1:1434:PHE:CZ	0.92	1.44
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:CB	1.23	1.44
27:Z2:129:LYS:CE	27:Z2:185:LEU:HD12	1.48	1.44
9:I1:838:GLU:HG2	15:O1:198:ARG:NH2	1.16	1.44
25:X2:818:ILE:CD1	26:Y2:1405:GLN:HG3	1.47	1.44
26:Y2:1383:ALA:CA	26:Y2:1383:ALA:N	1.78	1.44
27:Z2:27:PHE:CE2	27:Z2:36:VAL:CG2	1.81	1.44
27:Z2:188:SER:HB2	27:Z2:195:TYR:CE2	1.50	1.44
27:Z2:434:GLN:CG	27:Z2:580:LYS:HE3	1.43	1.44
9:I2:806:VAL:CG1	15:O3:247:TRP:HB2	1.35	1.44
9:I2:925:LEU:CD1	15:O3:186:PHE:HB3	1.48	1.44
9:I2:968:PRO:HG2	14:N3:300:ALA:CA	1.46	1.44
9:I2:1049:LEU:CD1	14:N3:296:GLY:CA	1.80	1.44
25:X2:665:TRP:HE1	26:Y2:1267:GLU:CB	1.28	1.44
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CD1	1.52	1.44
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:HA	1.33	1.44
27:Z1:26:ILE:CG2	27:Z1:440:MET:SD	2.05	1.44
27:Z1:93:VAL:O	27:Z1:94:PRO:CD	1.65	1.44
25:X1:742:GLN:CG	25:X1:743:GLN:CG	1.91	1.44
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CD1	2.01	1.44
26:Y2:1339:PHE:HD2	27:Z2:630:TRP:CE3	1.17	1.44
27:Z2:135:LYS:HZ3	27:Z2:218:LEU:CD2	1.28	1.44
27:Z2:283:GLY:CA	27:Z2:283:GLY:N	1.75	1.44
17:Q1:386:PHE:CE2	17:Q1:566:ASN:OD1	1.69	1.43
25:X2:699:TYR:CA	27:Z2:49:LEU:HD12	1.47	1.43
25:X2:823:LYS:HB3	27:Z1:259:LEU:CD2	1.45	1.43
26:Y1:1291:LEU:CD1	27:Z1:581:PHE:CD1	1.99	1.43
26:Y1:1339:PHE:HD2	27:Z1:630:TRP:CE3	1.17	1.43
26:Y2:1334:LEU:O	27:Z1:108:ALA:CB	1.67	1.43
27:Z1:129:LYS:CE	27:Z1:185:LEU:CG	1.95	1.43
1:A3:1332:ARG:CZ	4:D3:899:THR:O	1.64	1.43
9:I2:906:GLY:HA3	13:M3:573:ARG:CD	1.48	1.43
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:CD	1.92	1.43
26:Y2:1291:LEU:CD1	27:Z2:581:PHE:CD1	1.99	1.43
27:Z2:57:LEU:HD22	27:Z2:109:PHE:CD2	1.51	1.43
1:A1:827:ILE:HG21	1:A1:849:SER:N	1.18	1.43
6:F1:273:ALA:N	9:I1:1209:THR:H	1.01	1.43
9:I1:924:ILE:H	15:O1:187:ASN:ND2	1.08	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1051:LYS:NZ	14:N1:290:VAL:CA	1.80	1.43
9:I2:1168:ALA:CB	15:O3:270:THR:N	1.81	1.43
9:I2:1305:LEU:CA	15:O3:264:ILE:HD11	1.45	1.43
24:W1:400:LYS:CB	24:W1:720:PHE:CB	1.97	1.43
25:X2:692:LYS:HA	27:Z2:431:TRP:CE2	1.53	1.43
26:Y1:1431:MET:HA	26:Y1:1434:PHE:CD2	1.51	1.43
6:F1:138:ILE:CB	9:I1:1392:VAL:HG23	0.95	1.43
25:X2:700:ILE:CB	26:Y2:1298:TYR:HE1	1.23	1.43
26:Y1:1294:LYS:CG	27:Z1:588:TRP:NE1	1.82	1.43
27:Z1:12:ILE:CG2	27:Z1:37:PHE:HE2	1.31	1.43
27:Z1:35:ILE:HD11	27:Z1:429:ILE:CD1	1.45	1.43
27:Z1:325:ILE:HG23	27:Z1:350:LEU:CD1	1.45	1.43
9:I2:919:ALA:CB	16:P3:157:GLU:OE1	1.67	1.43
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:NZ	1.32	1.43
26:Y2:1443:MET:CE	27:Z2:332:GLU:CD	1.85	1.43
27:Z2:12:ILE:CG2	27:Z2:37:PHE:HE2	1.31	1.43
1:A2:1220:PRO:O	1:A1:599:ARG:CD	1.65	1.42
25:X1:637:LEU:N	26:Y1:1218:PHE:CD2	1.85	1.42
25:X1:818:ILE:CD1	26:Y1:1405:GLN:HG3	1.47	1.42
25:X2:637:LEU:O	25:X2:641:VAL:CG2	1.64	1.42
25:X2:695:GLN:HB2	27:Z2:431:TRP:CE3	1.54	1.42
26:Y2:1230:GLU:HG2	26:Y2:1233:ARG:NH2	1.18	1.42
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CD1	1.69	1.42
27:Z1:35:ILE:HB	27:Z1:46:TYR:CE2	1.50	1.42
27:Z2:35:ILE:HD11	27:Z2:429:ILE:CD1	1.45	1.42
27:Z2:119:GLU:C	27:Z2:119:GLU:CA	1.86	1.42
1:A2:1226:LEU:CD2	1:A1:647:GLU:H	1.33	1.42
9:I1:754:ARG:NH1	13:M1:552:TYR:HD2	0.99	1.42
9:I2:976:ARG:N	14:N3:300:ALA:HB3	1.20	1.42
20:S1:568:ALA:CA	21:T1:86:ASN:HD21	1.31	1.42
26:Y1:1294:LYS:CE	27:Z1:588:TRP:CD1	2.02	1.42
27:Z1:297:TYR:CD2	27:Z1:321:ASP:OD2	1.72	1.42
9:I1:1038:ILE:HG12	15:O1:179:LEU:CD1	1.50	1.42
9:I1:1051:LYS:N	14:N1:293:LYS:CD	1.82	1.42
9:I2:1103:LEU:CB	13:M3:611:LYS:CE	1.79	1.42
25:X2:694:ASP:HB2	27:Z2:431:TRP:CB	1.47	1.42
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CD2	1.48	1.42
27:Z1:541:LYS:CB	27:Z2:554:HIS:H	1.30	1.42
27:Z2:123:PRO:C	27:Z2:123:PRO:CA	1.87	1.42
1:A4:715:GLU:HB3	4:D3:973:GLN:NE2	1.21	1.42
6:F2:132:THR:CG2	9:I2:1334:PRO:HA	1.50	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:900:ARG:HG3	13:M1:577:LEU:CA	1.46	1.42
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CD	1.81	1.42
9:I2:1307:LEU:CB	14:N3:414:ALA:O	1.68	1.42
25:X2:695:GLN:HB3	27:Z2:48:VAL:CG1	0.97	1.42
27:Z2:35:ILE:HB	27:Z2:46:TYR:CE2	1.50	1.42
27:Z2:363:LEU:HD11	27:Z2:373:LEU:CD2	1.47	1.42
25:X1:815:GLU:CG	26:Y1:1402:LEU:CD2	1.84	1.42
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CD2	1.49	1.42
27:Z1:120:GLU:H	27:Z1:120:GLU:C	0.91	1.42
27:Z1:541:LYS:CB	27:Z2:550:HIS:O	1.67	1.42
6:F1:1392:LEU:CD2	15:O2:259:ASP:OD1	1.67	1.41
9:I1:911:PRO:CG	15:O1:202:LEU:CD1	1.98	1.41
22:U1:289:GLN:CG	25:X1:794:ILE:CA	1.89	1.41
26:Y1:1230:GLU:HG2	26:Y1:1233:ARG:NH2	1.17	1.41
27:Z1:57:LEU:HD22	27:Z1:109:PHE:CD2	1.51	1.41
9:I1:900:ARG:N	13:M1:580:LYS:HD3	1.12	1.41
9:I1:1357:LYS:NZ	15:O1:263:GLN:HG3	1.10	1.41
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CB	1.75	1.41
25:X2:778:LYS:NZ	25:X2:795:LYS:HE3	1.16	1.41
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HB3	1.21	1.41
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:HD23	1.23	1.41
26:Y2:1294:LYS:CE	27:Z2:588:TRP:CD1	2.03	1.41
9:I2:921:GLU:CB	16:P3:157:GLU:OE2	1.66	1.41
25:X1:789:GLU:OE2	25:X1:793:LEU:CD1	1.67	1.41
25:X1:795:LYS:NZ	27:Z1:666:GLU:HA	1.35	1.41
25:X2:699:TYR:CG	27:Z2:49:LEU:CD1	1.85	1.41
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:NZ	1.32	1.41
27:Z1:135:LYS:NZ	27:Z1:218:LEU:CD2	1.79	1.41
27:Z1:179:VAL:HG22	27:Z1:206:PHE:CD2	1.54	1.41
27:Z2:625:HIS:NE2	27:Z2:628:MET:HB3	1.12	1.41
1:A4:827:ILE:HG21	1:A4:849:SER:N	1.18	1.41
9:I1:976:ARG:N	14:N1:301:LEU:CD2	1.81	1.41
9:I1:1255:HIS:CE1	15:O1:254:ARG:HD2	1.55	1.41
9:I2:813:ILE:CG2	15:O3:241:SER:HB2	1.48	1.41
22:U1:340:LYS:CE	27:Z1:646:HIS:CE1	1.98	1.41
25:X2:692:LYS:HA	27:Z2:431:TRP:CE3	1.55	1.41
27:Z1:129:LYS:CE	27:Z1:185:LEU:HD12	1.47	1.41
27:Z2:223:LEU:HD11	27:Z2:263:TRP:CD1	1.55	1.41
25:X1:644:TRP:C	27:Z1:535:PHE:CZ	1.94	1.41
27:Z1:223:LEU:HD11	27:Z1:263:TRP:CD1	1.55	1.41
27:Z1:363:LEU:HD11	27:Z1:373:LEU:CD2	1.47	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:929:ASN:ND2	4:D3:468:LYS:CE	1.84	1.40
6:F1:1806:ARG:HA	14:N2:412:ASN:ND2	1.13	1.40
9:I2:925:LEU:CD1	15:O3:186:PHE:CB	1.99	1.40
9:I2:1049:LEU:CD1	14:N3:296:GLY:HA3	1.18	1.40
27:Z1:263:TRP:CZ3	27:Z1:265:SER:HA	1.57	1.40
1:A2:1386:GLU:CD	1:A1:728:LYS:CE	1.87	1.40
1:A3:1070:ASP:OD2	9:I2:1238:LYS:CB	1.70	1.40
1:A3:1087:GLY:N	4:D3:1096:TYR:CE1	1.86	1.40
9:I2:914:ASN:CB	15:O3:190:ARG:O	1.68	1.40
9:I2:982:GLN:HB2	15:O3:179:LEU:CD1	1.37	1.40
26:Y1:1225:PHE:CE2	27:Z1:539:ILE:CG1	2.00	1.40
27:Z1:26:ILE:CB	27:Z1:440:MET:SD	2.07	1.40
27:Z1:129:LYS:CE	27:Z1:185:LEU:CD1	1.98	1.40
27:Z2:297:TYR:CD2	27:Z2:321:ASP:OD2	1.73	1.40
1:A2:1229:VAL:CG2	1:A1:640:LEU:CA	1.99	1.40
6:F1:158:PRO:CG	9:I1:1340:LEU:H	1.32	1.40
9:I2:1031:ALA:HB1	13:M3:621:ARG:NH1	1.09	1.40
9:I2:1103:LEU:C	13:M3:611:LYS:HZ1	1.18	1.40
27:Z1:24:ARG:NH2	27:Z1:440:MET:CG	1.85	1.40
27:Z1:153:MET:SD	27:Z1:211:PHE:HZ	1.45	1.40
6:F1:135:VAL:O	9:I1:1392:VAL:CG1	1.67	1.40
9:I2:977:ASN:N	15:O3:174:LEU:CD2	1.76	1.40
17:Q2:852:ILE:HD11	17:Q2:913:LYS:NZ	1.09	1.40
25:X1:789:GLU:HG2	27:Z1:680:TRP:CD2	1.55	1.40
1:A2:1201:ARG:HE	1:A1:647:GLU:CB	1.32	1.40
6:F1:135:VAL:O	9:I1:1392:VAL:CB	1.66	1.40
9:I1:1051:LYS:CE	14:N1:289:PHE:CD2	2.02	1.40
9:I2:914:ASN:ND2	15:O3:194:GLU:HB3	1.32	1.40
25:X2:692:LYS:HA	27:Z2:431:TRP:CZ3	1.56	1.40
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CB	1.83	1.40
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:NZ	1.36	1.40
27:Z2:135:LYS:NZ	27:Z2:218:LEU:CD2	1.79	1.40
1:A2:1221:ILE:CD1	1:A1:600:LYS:CE	1.94	1.39
9:I2:914:ASN:ND2	15:O3:194:GLU:CB	1.84	1.39
9:I2:1095:TYR:CE1	15:O3:267:ALA:C	1.95	1.39
17:Q1:443:TRP:CG	17:Q1:504:PHE:CD1	2.10	1.39
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:CZ	2.02	1.39
27:Z2:117:ASP:CB	27:Z2:124:LYS:NZ	1.84	1.39
27:Z2:263:TRP:CZ3	27:Z2:265:SER:HA	1.56	1.39
1:A2:1237:LEU:HD11	1:A1:588:SER:CB	1.52	1.39
9:I1:838:GLU:CG	15:O1:198:ARG:CZ	2.00	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1095:TYR:CE1	15:O3:268:GLY:N	1.90	1.39
25:X1:815:GLU:CB	26:Y1:1402:LEU:HD21	1.52	1.39
25:X2:699:TYR:CA	27:Z2:49:LEU:CD1	1.97	1.39
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:CD1	1.55	1.39
27:Z2:179:VAL:HG22	27:Z2:206:PHE:CD2	1.54	1.39
1:A2:1386:GLU:CD	1:A1:728:LYS:HE2	1.03	1.39
1:A4:127:HIS:CD2	4:D3:1006:ASP:O	1.74	1.39
9:I1:1255:HIS:NE2	15:O1:254:ARG:HD3	1.29	1.39
9:I2:967:SER:HB2	16:P3:145:SER:CA	1.51	1.39
9:I2:1168:ALA:CB	15:O3:269:ILE:C	1.89	1.39
22:U1:340:LYS:CE	27:Z1:646:HIS:HE1	1.28	1.39
24:W1:403:ASP:CB	24:W1:723:PHE:O	1.68	1.39
20:S1:568:ALA:HA	21:T1:86:ASN:ND2	1.34	1.39
22:U1:201:LYS:NZ	26:Y2:1372:LYS:C	1.72	1.39
26:Y2:1365:ILE:CG2	26:Y2:1383:ALA:O	1.68	1.39
27:Z1:26:ILE:CA	27:Z1:440:MET:HE1	1.49	1.39
1:A3:1223:GLU:O	1:A4:594:LEU:CD2	1.69	1.39
9:I2:976:ARG:HB2	14:N3:297:ALA:CA	1.52	1.39
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CA	1.71	1.39
1:A4:127:HIS:HE2	4:D3:1006:ASP:C	1.22	1.38
9:I1:908:ARG:NE	15:O1:209:LEU:HD13	1.34	1.38
22:U1:212:LYS:NZ	25:X1:768:GLU:HG2	1.34	1.38
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:CB	1.52	1.38
26:Y2:1235:MET:O	26:Y2:1239:PHE:CD2	1.76	1.38
27:Z1:342:TYR:CE2	27:Z1:344:TYR:CD2	2.11	1.38
27:Z2:10:LEU:HD21	27:Z2:431:TRP:CH2	1.54	1.38
27:Z2:129:LYS:CE	27:Z2:185:LEU:CD1	1.98	1.38
1:A2:1229:VAL:HG21	1:A1:640:LEU:CA	1.52	1.38
6:F1:1265:GLN:CB	15:O2:252:VAL:HG23	1.52	1.38
7:G1:247:ASP:N	13:M2:594:LYS:CD	1.86	1.38
9:I2:807:LEU:CD1	15:O3:248:SER:HB3	1.53	1.38
9:I2:976:ARG:CA	14:N3:297:ALA:CA	1.98	1.38
9:I2:976:ARG:N	14:N3:297:ALA:HA	1.35	1.38
25:X2:815:GLU:CB	26:Y2:1402:LEU:HD21	1.52	1.38
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:CD1	1.36	1.38
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CE2	1.75	1.38
27:Z2:153:MET:SD	27:Z2:211:PHE:CZ	2.16	1.38
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CG	1.32	1.38
9:I2:1103:LEU:N	13:M3:611:LYS:HE2	1.31	1.38
26:Y1:1235:MET:O	26:Y1:1239:PHE:CD2	1.75	1.38
26:Y2:1294:LYS:CG	27:Z2:588:TRP:NE1	1.82	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:125:SER:CA	27:Z2:147:GLU:OE1	1.70	1.38
27:Z2:437:LEU:HD12	27:Z2:448:GLN:NE2	1.09	1.38
1:A2:1230:TYR:CZ	1:A1:590:SER:CA	1.91	1.38
6:F1:142:ALA:HB3	9:I1:1395:LEU:N	1.11	1.38
9:I1:918:SER:OG	15:O1:193:ALA:HB2	1.23	1.38
9:I2:1098:LEU:CB	15:O3:269:ILE:HA	1.54	1.38
25:X1:648:LEU:HD11	27:Z1:535:PHE:CD1	1.58	1.38
25:X2:778:LYS:HZ2	25:X2:795:LYS:CE	1.37	1.38
25:X2:790:ASN:OD1	27:Z2:680:TRP:CH2	1.75	1.38
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:CD1	1.55	1.38
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CE2	1.75	1.38
27:Z2:93:VAL:O	27:Z2:94:PRO:CD	1.65	1.38
27:Z2:117:ASP:HA	27:Z2:124:LYS:NZ	1.09	1.38
1:A1:827:ILE:CG2	1:A1:849:SER:CA	2.01	1.38
1:A2:1228:TYR:OH	1:A1:642:ARG:CB	1.72	1.38
1:A4:520:GLU:HG2	4:D3:1017:THR:CG2	1.54	1.37
1:A4:715:GLU:CB	4:D3:973:GLN:HE22	1.34	1.38
9:I2:967:SER:CB	16:P3:145:SER:HA	1.54	1.38
9:I2:1106:LYS:CB	15:O3:275:LEU:HD12	1.54	1.38
9:I2:1305:LEU:HD21	15:O3:260:LEU:CD1	1.53	1.38
10:J1:247:ASP:CG	15:O1:276:GLY:HA3	1.42	1.38
17:Q1:441:ARG:HH22	17:Q1:508:ASN:CB	1.36	1.38
25:X2:726:VAL:C	25:X2:726:VAL:CG1	1.89	1.38
1:A2:1328:ARG:NH2	4:D1:898:ASP:CG	1.74	1.37
17:Q1:386:PHE:CZ	17:Q1:566:ASN:OD1	1.76	1.37
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:HZ	1.16	1.37
27:Z1:153:MET:SD	27:Z1:211:PHE:CZ	2.16	1.37
1:A2:1233:GLN:HE21	1:A1:640:LEU:CD1	1.35	1.37
9:I1:980:ILE:HD11	15:O1:172:ALA:C	1.42	1.37
26:Y1:1455:ASN:C	26:Y1:1455:ASN:CA	1.92	1.37
27:Z1:125:SER:CA	27:Z1:147:GLU:OE1	1.70	1.37
27:Z1:437:LEU:CG	27:Z1:450:ILE:HD11	1.54	1.37
27:Z2:668:GLU:CB	27:Z2:668:GLU:C	1.93	1.37
1:A2:1229:VAL:HG22	1:A1:639:ASN:C	1.43	1.37
9:I2:906:GLY:CA	13:M3:573:ARG:CD	2.02	1.37
9:I2:1029:LEU:HG	13:M3:613:ASP:CB	1.15	1.37
25:X1:742:GLN:CD	25:X1:743:GLN:HG2	1.40	1.37
26:Y1:1382:VAL:C	26:Y1:1384:LYS:HG3	1.45	1.37
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:CD	1.55	1.37
27:Z1:137:TYR:CB	27:Z1:269:LYS:CD	2.01	1.37
27:Z1:303:ALA:CB	27:Z1:363:LEU:CD2	2.02	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:153:MET:SD	27:Z2:211:PHE:HZ	1.45	1.37
27:Z2:223:LEU:CD1	27:Z2:263:TRP:NE1	1.88	1.37
1:A3:1200:ARG:HG2	1:A4:591:ASP:CB	1.52	1.37
9:I1:897:GLU:HA	13:M1:580:LYS:CG	1.51	1.37
9:I2:902:GLN:HB3	13:M3:580:LYS:CB	1.26	1.37
25:X2:648:LEU:HD11	27:Z2:535:PHE:CD1	1.58	1.37
26:Y1:1435:LYS:NZ	27:Z1:225:LEU:HD23	1.35	1.37
27:Z1:26:ILE:CG2	27:Z1:440:MET:CE	2.00	1.37
27:Z1:26:ILE:N	27:Z1:440:MET:HE1	1.11	1.37
27:Z2:47:ASN:ND2	27:Z2:95:TRP:CZ2	1.86	1.37
4:D1:673:LEU:CG	1:A1:1094:ILE:HD13	1.52	1.36
9:I1:1315:GLN:CB	15:O1:266:GLN:O	1.71	1.36
9:I2:1305:LEU:CD2	15:O3:264:ILE:HG12	1.54	1.36
26:Y2:1225:PHE:CE2	27:Z2:539:ILE:CG1	2.00	1.36
27:Z1:120:GLU:C	27:Z1:120:GLU:N	1.76	1.36
27:Z1:381:ILE:HG22	27:Z1:417:ILE:CD1	1.53	1.36
27:Z2:437:LEU:CG	27:Z2:450:ILE:HD11	1.55	1.36
1:A2:1328:ARG:CB	4:D1:976:ARG:HH11	1.37	1.36
1:A3:1332:ARG:HH21	4:D3:903:ILE:N	1.23	1.36
1:A4:127:HIS:CE1	4:D3:1006:ASP:O	1.76	1.36
1:A4:625:LEU:C	4:D3:981:VAL:CG2	1.91	1.36
9:I1:896:PRO:CA	13:M1:583:ASP:HB3	1.55	1.36
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD12	1.49	1.36
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:NZ	1.36	1.36
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:HD22	1.51	1.36
27:Z2:129:LYS:HZ1	27:Z2:185:LEU:CB	1.37	1.36
27:Z2:361:LYS:NZ	27:Z2:378:ASP:HB2	1.38	1.36
27:Z2:437:LEU:CD1	27:Z2:448:GLN:HE21	1.37	1.36
1:A4:827:ILE:CG2	1:A4:849:SER:CA	2.01	1.36
9:I1:967:SER:CB	15:O1:178:ASP:CA	2.03	1.36
9:I2:806:VAL:HG13	15:O3:247:TRP:CB	1.40	1.36
9:I2:1103:LEU:CA	13:M3:611:LYS:CE	2.03	1.36
25:X1:742:GLN:HG2	25:X1:743:GLN:CA	1.53	1.36
27:Z1:8:SER:CA	27:Z1:8:SER:N	1.87	1.36
27:Z2:137:TYR:CB	27:Z2:269:LYS:CD	2.01	1.36
27:Z2:437:LEU:HG	27:Z2:450:ILE:CD1	1.55	1.36
1:A3:1332:ARG:CD	4:D3:899:THR:HG22	1.47	1.36
6:F1:138:ILE:HB	9:I1:1392:VAL:CG2	0.89	1.36
9:I2:813:ILE:CG2	15:O3:237:PRO:O	1.72	1.36
26:Y2:1435:LYS:NZ	27:Z2:225:LEU:HD23	1.35	1.36
9:I2:978:LYS:HA	15:O3:174:LEU:O	1.23	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:793:LEU:HD22	27:Z1:680:TRP:CD1	1.58	1.36
25:X2:775:THR:HA	25:X2:794:ILE:CD1	1.22	1.36
26:Y2:1334:LEU:CD2	27:Z1:110:GLN:N	1.84	1.36
27:Z1:47:ASN:ND2	27:Z1:95:TRP:CZ2	1.86	1.36
27:Z1:129:LYS:NZ	27:Z1:185:LEU:HB2	1.06	1.36
27:Z1:223:LEU:CD1	27:Z1:263:TRP:NE1	1.88	1.36
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ3	1.35	1.36
27:Z2:123:PRO:N	27:Z2:123:PRO:CD	1.89	1.36
1:A4:625:LEU:C	4:D3:981:VAL:HG21	1.45	1.35
7:G2:249:ASP:HA	15:O4:251:ILE:CG1	1.43	1.35
9:I1:1051:LYS:CE	14:N1:289:PHE:CE2	2.09	1.35
26:Y2:1225:PHE:CE2	27:Z2:539:ILE:HG12	1.14	1.35
27:Z1:7:LEU:CA	27:Z1:7:LEU:N	1.88	1.35
27:Z2:129:LYS:NZ	27:Z2:185:LEU:HB2	1.06	1.35
27:Z2:303:ALA:CB	27:Z2:363:LEU:CD2	2.01	1.35
27:Z2:342:TYR:CE2	27:Z2:344:TYR:CD2	2.11	1.35
1:A3:1332:ARG:NH2	4:D3:902:SER:HB2	1.33	1.35
9:I1:838:GLU:C	15:O1:198:ARG:NH2	1.80	1.35
9:I1:896:PRO:CB	13:M1:583:ASP:HB3	1.53	1.35
9:I1:1038:ILE:CG1	15:O1:179:LEU:HD13	1.55	1.35
9:I1:1051:LYS:HZ1	14:N1:290:VAL:N	1.20	1.35
22:U1:294:VAL:O	27:Z1:658:LEU:CD2	1.73	1.35
25:X2:692:LYS:HA	27:Z2:431:TRP:CH2	1.60	1.35
27:Z1:10:LEU:HD21	27:Z1:431:TRP:CH2	1.54	1.35
1:A2:1237:LEU:CD2	1:A1:588:SER:OG	1.73	1.35
1:A3:1330:VAL:HG23	4:D3:876:SER:OG	1.21	1.35
6:F1:1806:ARG:C	14:N2:412:ASN:CG	1.85	1.35
9:I2:914:ASN:HA	15:O3:194:GLU:CA	1.55	1.35
9:I2:1025:LEU:O	13:M3:613:ASP:HB2	1.18	1.35
25:X2:691:ASN:CB	27:Z2:431:TRP:CD1	1.75	1.35
25:X2:774:ASN:CB	25:X2:797:LEU:CD1	2.04	1.35
26:Y1:1456:LEU:C	26:Y1:1456:LEU:HD12	1.44	1.35
26:Y2:1295:VAL:HA	27:Z2:588:TRP:CZ3	1.61	1.35
1:A2:1225:PRO:CB	1:A1:640:LEU:CD2	2.01	1.35
1:A3:1332:ARG:HE	4:D3:903:ILE:CG1	1.18	1.35
9:I2:976:ARG:CB	14:N3:297:ALA:HA	1.55	1.35
24:W1:526:ARG:HB2	24:W1:740:PHE:CA	1.57	1.35
25:X1:726:VAL:O	25:X1:727:SER:CB	1.75	1.35
27:Z1:361:LYS:NZ	27:Z1:378:ASP:HB2	1.38	1.35
7:G1:255:LEU:CB	15:O2:246:LEU:H	1.37	1.35
7:G1:255:LEU:CA	15:O2:246:LEU:N	1.82	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:765:LEU:CD2	27:Z2:652:GLN:OE1	1.72	1.35
27:Z1:41:ASN:ND2	27:Z1:60:SER:CA	1.90	1.35
27:Z2:213:PRO:CD	27:Z2:213:PRO:N	1.76	1.35
9:I1:1038:ILE:CD1	15:O1:179:LEU:CD1	2.04	1.34
22:U1:204:VAL:C	27:Z1:668:GLU:OE2	1.64	1.34
22:U1:205:ALA:N	27:Z1:668:GLU:OE2	1.59	1.34
25:X1:765:LEU:CD2	27:Z1:652:GLN:OE1	1.72	1.34
27:Z1:437:LEU:HG	27:Z1:450:ILE:CD1	1.55	1.34
9:I1:841:PHE:CE1	15:O1:191:ARG:NH2	1.89	1.34
9:I2:1305:LEU:CD2	15:O3:264:ILE:CG1	2.05	1.34
25:X2:644:TRP:C	27:Z2:535:PHE:CZ	1.94	1.34
25:X2:790:ASN:OD1	27:Z2:680:TRP:HH2	1.02	1.34
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:HG13	1.42	1.34
27:Z1:26:ILE:CB	27:Z1:440:MET:CE	2.05	1.34
27:Z1:216:LEU:CD2	27:Z1:272:ILE:CD1	2.05	1.34
27:Z2:24:ARG:CA	27:Z2:24:ARG:N	1.89	1.34
1:A2:1233:GLN:NE2	1:A1:640:LEU:HD11	1.05	1.34
1:A2:1386:GLU:OE2	1:A1:728:LYS:CE	1.73	1.34
9:I2:916:ALA:CB	15:O3:189:ARG:C	1.92	1.34
9:I2:899:LEU:CD1	13:M3:585:LEU:H	1.40	1.34
9:I2:976:ARG:CB	14:N3:297:ALA:CB	2.04	1.34
9:I2:1104:LEU:N	13:M3:611:LYS:NZ	1.71	1.34
9:I2:1107:SER:HB3	13:M3:615:PRO:CB	1.58	1.34
25:X2:692:LYS:HA	27:Z2:431:TRP:CZ2	1.62	1.34
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:CB	1.57	1.34
27:Z1:125:SER:HB3	27:Z1:148:ASP:OD2	1.23	1.34
1:A2:1201:ARG:NE	1:A1:647:GLU:CB	1.90	1.34
1:A3:1086:LYS:CB	4:D3:1096:TYR:CE1	2.10	1.34
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HE2	1.50	1.34
26:Y2:1396:LEU:HD21	27:Z2:697:CYS:SG	1.65	1.34
6:F1:1392:LEU:HD21	15:O2:259:ASP:CG	1.45	1.33
9:I1:1255:HIS:CE1	15:O1:254:ARG:CD	2.09	1.33
9:I2:911:PRO:HB3	15:O3:197:ARG:NE	1.02	1.33
9:I2:1103:LEU:N	13:M3:611:LYS:CE	1.88	1.33
17:Q1:384:ASN:HB3	17:Q1:509:ALA:N	1.05	1.33
17:Q2:922:LEU:CD2	19:R2:688:LEU:HB3	1.55	1.33
26:Y1:1396:LEU:HD21	27:Z1:697:CYS:SG	1.66	1.33
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:NH2	1.89	1.33
27:Z1:45:TRP:CE2	27:Z1:95:TRP:HZ3	1.36	1.33
9:I2:979:ALA:N	15:O3:178:ASP:OD2	1.58	1.33
17:Q1:891:ILE:HD13	18:R1:715:LEU:CD2	1.58	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1295:VAL:HA	27:Z1:588:TRP:CZ3	1.61	1.33
27:Z2:45:TRP:CE2	27:Z2:95:TRP:HZ3	1.37	1.33
6:F2:139:GLN:OE1	9:I2:1340:LEU:HD22	1.26	1.33
9:I1:918:SER:OG	15:O1:193:ALA:CB	1.76	1.33
9:I1:1038:ILE:CG1	15:O1:179:LEU:CD1	2.04	1.33
9:I2:976:ARG:NE	14:N3:293:LYS:HG3	1.43	1.33
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:HB3	1.01	1.33
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:HE2	1.54	1.33
27:Z1:27:PHE:CE1	27:Z1:36:VAL:CG1	2.10	1.33
27:Z2:41:ASN:ND2	27:Z2:60:SER:CA	1.90	1.33
27:Z2:41:ASN:ND2	27:Z2:60:SER:HA	1.41	1.33
27:Z2:216:LEU:CD2	27:Z2:272:ILE:CD1	2.05	1.33
27:Z2:234:TYR:HB2	27:Z2:253:LEU:CD1	1.57	1.33
6:F1:138:ILE:N	9:I1:1388:GLU:O	1.57	1.33
7:G2:252:LEU:C	15:O4:248:SER:O	1.66	1.33
9:I2:919:ALA:HB3	16:P3:157:GLU:CB	1.59	1.33
25:X1:797:LEU:HD21	27:Z1:687:LEU:CD2	1.57	1.33
27:Z1:27:PHE:CE2	27:Z1:36:VAL:CG2	1.81	1.33
9:I1:1255:HIS:NE2	15:O1:254:ARG:CD	1.91	1.33
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HD12	1.61	1.33
27:Z1:31:ASN:HA	27:Z1:368:GLU:OE2	1.25	1.33
27:Z1:35:ILE:HG13	27:Z1:46:TYR:OH	1.27	1.33
27:Z1:389:TRP:CZ3	27:Z1:393:LEU:HD12	1.64	1.33
25:X2:693:ILE:CB	27:Z2:7:LEU:HG	1.60	1.32
26:Y1:1382:VAL:C	26:Y2:1364:ASN:HB3	1.46	1.32
27:Z1:41:ASN:ND2	27:Z1:60:SER:N	1.77	1.32
27:Z1:387:MET:CE	27:Z1:391:SER:HB3	1.57	1.32
9:I2:1175:LYS:NZ	15:O3:277:GLU:OE1	1.57	1.32
20:S1:571:ALA:HB2	21:T1:86:ASN:CB	1.58	1.32
25:X1:707:LEU:HD11	26:Y1:1306:ILE:CG1	1.58	1.32
26:Y2:1358:HIS:NE2	26:Y2:1362:LEU:HD11	1.41	1.32
27:Z1:135:LYS:NZ	27:Z1:218:LEU:HD23	1.00	1.32
27:Z2:216:LEU:HD21	27:Z2:272:ILE:CD1	1.59	1.32
9:I1:908:ARG:CD	13:M1:552:TYR:N	1.92	1.32
9:I1:918:SER:CB	15:O1:193:ALA:H	1.40	1.32
20:S1:571:ALA:CB	21:T1:86:ASN:HB2	1.60	1.32
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD12	1.48	1.32
25:X1:742:GLN:HG3	25:X1:743:GLN:CG	1.52	1.32
25:X2:692:LYS:CA	27:Z2:431:TRP:CE2	2.12	1.32
1:A2:1228:TYR:CE2	1:A1:642:ARG:NH2	1.95	1.32
1:A2:1277:TRP:CB	1:A1:642:ARG:HH22	1.43	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:137:ASN:O	9:I2:1391:THR:HB	1.26	1.32
9:I1:1051:LYS:HZ2	14:N1:290:VAL:CG2	1.40	1.32
17:Q2:922:LEU:CD2	19:R2:688:LEU:CB	2.03	1.32
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:NH2	1.89	1.32
27:Z1:129:LYS:NZ	27:Z1:185:LEU:CB	1.92	1.32
27:Z1:234:TYR:HB2	27:Z1:253:LEU:CD1	1.57	1.32
27:Z1:252:GLN:HE22	27:Z1:335:MET:N	1.24	1.32
27:Z2:387:MET:HE3	27:Z2:391:SER:CB	1.59	1.32
9:I1:838:GLU:CG	15:O1:198:ARG:NE	1.90	1.32
9:I1:1048:GLU:CB	14:N1:293:LYS:NZ	1.91	1.32
9:I2:911:PRO:CB	15:O3:197:ARG:NE	1.90	1.32
25:X1:797:LEU:CD2	27:Z1:687:LEU:HD21	1.60	1.32
25:X2:707:LEU:HD11	26:Y2:1306:ILE:CG1	1.58	1.32
26:Y1:1443:MET:CE	27:Z1:332:GLU:CD	1.85	1.32
27:Z1:13:PHE:CD1	27:Z1:445:LEU:HD23	1.63	1.32
27:Z1:26:ILE:N	27:Z1:440:MET:CE	1.90	1.32
27:Z2:252:GLN:HE22	27:Z2:335:MET:N	1.24	1.32
27:Z2:428:TYR:CZ	27:Z2:435:SER:OG	1.71	1.32
1:A3:1223:GLU:OE1	1:A4:647:GLU:N	1.58	1.31
1:A3:1401:VAL:HA	4:D3:873:GLN:NE2	1.43	1.31
17:Q1:361:TYR:O	17:Q1:511:PRO:HB3	1.16	1.31
25:X1:751:LEU:CD1	27:Z1:638:ILE:CD1	2.07	1.31
25:X2:778:LYS:HD3	25:X2:795:LYS:N	1.44	1.31
27:Z2:135:LYS:NZ	27:Z2:218:LEU:HD23	1.01	1.31
1:A2:1230:TYR:CZ	1:A1:590:SER:HA	1.14	1.31
7:G1:253:SER:HB2	13:M2:595:MET:SD	1.69	1.31
9:I1:899:LEU:O	13:M1:576:LYS:HA	1.28	1.31
9:I1:1363:GLU:OE2	15:O1:267:ALA:HA	1.19	1.31
9:I2:895:ARG:HG2	13:M3:584:GLN:C	1.47	1.31
9:I2:968:PRO:CB	14:N3:303:SER:HB3	1.58	1.31
9:I2:1255:HIS:CG	14:N3:407:ALA:HB1	1.65	1.31
18:R1:435:PHE:HD2	18:R1:448:ILE:CD1	1.42	1.31
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:N	1.45	1.31
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:HB3	1.01	1.31
9:I1:1051:LYS:CB	14:N1:293:LYS:HD3	1.59	1.31
9:I2:1308:THR:CB	14:N3:413:VAL:HG12	1.58	1.31
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CG	1.83	1.31
27:Z2:69:PHE:HD1	27:Z2:84:ASN:OD1	1.02	1.31
27:Z2:120:GLU:C	27:Z2:120:GLU:N	1.82	1.31
6:F1:139:GLN:NE2	9:I1:1340:LEU:HD11	1.45	1.31
9:I1:908:ARG:HD2	13:M1:552:TYR:CA	1.59	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CB	2.13	1.31
1:A2:1201:ARG:NE	1:A1:647:GLU:HB2	1.42	1.31
9:I1:838:GLU:CG	15:O1:198:ARG:NH2	1.92	1.31
9:I1:1048:GLU:HB3	14:N1:293:LYS:NZ	0.98	1.31
18:R1:436:LEU:C	18:R1:449:LEU:O	1.65	1.31
25:X2:778:LYS:NZ	25:X2:795:LYS:CE	1.91	1.31
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:CB	1.44	1.31
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:HE3	1.17	1.31
9:I1:1050:SER:OG	14:N1:293:LYS:CA	1.77	1.30
9:I1:1357:LYS:NZ	15:O1:263:GLN:CG	1.92	1.30
24:W1:666:ASN:HD21	24:W1:716:GLU:CB	1.43	1.30
25:X2:751:LEU:CD1	27:Z2:638:ILE:CD1	2.07	1.30
27:Z1:41:ASN:ND2	27:Z1:60:SER:HA	1.41	1.30
27:Z2:13:PHE:CD1	27:Z2:445:LEU:HD23	1.63	1.30
27:Z2:387:MET:CE	27:Z2:391:SER:HB3	1.58	1.30
27:Z2:389:TRP:CZ3	27:Z2:393:LEU:HD12	1.64	1.30
6:F1:161:ALA:N	9:I1:1335:LYS:HA	1.47	1.30
9:I1:1246:ILE:CG1	15:O1:255:GLY:CA	2.09	1.30
9:I2:892:HIS:CB	13:M3:591:ASP:OD2	1.78	1.30
9:I2:919:ALA:CB	16:P3:157:GLU:CA	2.08	1.30
9:I2:1050:SER:OG	14:N3:292:ARG:HG3	1.22	1.30
17:Q1:891:ILE:CD1	18:R1:715:LEU:HD21	1.62	1.30
26:Y1:1358:HIS:NE2	26:Y1:1362:LEU:HD11	1.41	1.30
27:Z1:429:ILE:HG21	27:Z1:431:TRP:NE1	1.46	1.30
27:Z2:678:ASN:HB2	27:Z2:678:ASN:N	1.44	1.30
1:A3:871:ASN:CA	4:D1:515:ASN:HB3	1.61	1.30
9:I2:1160:ILE:HD12	15:O3:263:GLN:O	1.15	1.30
10:J1:247:ASP:HB3	15:O1:276:GLY:CA	1.62	1.30
24:W1:530:LYS:O	24:W1:746:CYS:C	1.66	1.30
25:X2:774:ASN:ND2	25:X2:798:ASN:HB2	1.02	1.30
9:I1:754:ARG:NH1	13:M1:552:TYR:CD2	1.91	1.30
25:X1:789:GLU:HG2	27:Z1:680:TRP:CG	1.65	1.30
25:X2:692:LYS:HA	27:Z2:431:TRP:CD2	1.53	1.30
25:X2:774:ASN:CB	25:X2:794:ILE:O	1.79	1.30
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:CB	1.44	1.30
26:Y1:1450:GLY:CA	27:Z1:330:ASP:OD2	1.80	1.30
27:Z1:47:ASN:ND2	27:Z1:95:TRP:CH2	1.99	1.30
27:Z1:137:TYR:HB2	27:Z1:269:LYS:CD	1.60	1.30
27:Z1:252:GLN:HB3	27:Z1:335:MET:CG	1.61	1.30
27:Z2:41:ASN:ND2	27:Z2:60:SER:N	1.77	1.30
27:Z2:668:GLU:C	27:Z2:668:GLU:CA	1.99	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:925:LEU:CD1	15:O1:184:ARG:HB3	1.58	1.30
9:I2:914:ASN:CG	15:O3:194:GLU:HB2	1.49	1.30
9:I2:1106:LYS:HB2	15:O3:275:LEU:CG	1.59	1.30
27:Z1:179:VAL:HG22	27:Z1:206:PHE:CE2	1.67	1.30
27:Z2:26:ILE:HB	27:Z2:440:MET:SD	1.60	1.30
27:Z2:31:ASN:HA	27:Z2:368:GLU:OE2	1.25	1.30
27:Z2:47:ASN:ND2	27:Z2:95:TRP:CH2	1.99	1.30
27:Z2:129:LYS:HE2	27:Z2:185:LEU:CG	1.59	1.30
27:Z2:429:ILE:HG21	27:Z2:431:TRP:NE1	1.46	1.30
1:A4:1051:THR:OG1	4:D4:1096:TYR:CE2	1.78	1.29
9:I2:1095:TYR:CD1	15:O3:266:GLN:O	1.85	1.29
22:U1:289:GLN:CD	25:X1:794:ILE:CG1	1.98	1.29
25:X2:778:LYS:CD	25:X2:795:LYS:N	1.95	1.29
27:Z1:84:ASN:O	27:Z1:127:ILE:CD1	1.79	1.29
27:Z2:252:GLN:HB3	27:Z2:335:MET:CG	1.61	1.29
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HD3	1.42	1.29
25:X2:694:ASP:HB3	27:Z2:431:TRP:C	1.50	1.29
27:Z2:179:VAL:HG22	27:Z2:206:PHE:CE2	1.66	1.29
27:Z2:209:TYR:CE1	27:Z2:335:MET:CB	2.14	1.29
27:Z2:209:TYR:CB	27:Z2:210:PRO:CD	1.91	1.29
1:A2:1224:PRO:O	1:A1:648:TYR:HE2	1.12	1.29
1:A2:1225:PRO:HB2	1:A1:640:LEU:CD2	1.54	1.29
6:F1:159:ALA:O	9:I1:1335:LYS:CG	1.79	1.29
6:F2:143:GLY:N	9:I2:1395:LEU:CD2	1.95	1.29
9:I1:1311:LEU:HD21	15:O1:266:GLN:CB	1.61	1.29
9:I2:1098:LEU:HD22	15:O3:269:ILE:CG2	1.60	1.29
22:U1:209:PRO:HG2	27:Z1:659:LYS:CA	1.41	1.29
22:U1:293:GLN:OE1	26:Y1:1367:LYS:CE	1.79	1.29
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:HG13	1.42	1.29
27:Z1:393:LEU:CD2	27:Z1:405:LEU:HD21	1.63	1.29
1:A2:1229:VAL:CG2	1:A1:639:ASN:O	1.80	1.29
9:I1:1051:LYS:HE2	14:N1:289:PHE:CE2	1.63	1.29
9:I2:1026:TYR:OH	13:M3:608:LYS:HG2	1.19	1.29
9:I2:1108:PRO:O	15:O3:281:ALA:HB2	1.12	1.29
22:U1:241:ARG:HH12	27:Z1:659:LYS:NZ	1.30	1.29
25:X2:690:GLN:HA	27:Z2:7:LEU:CD2	1.62	1.29
25:X2:699:TYR:CG	27:Z2:49:LEU:HD12	1.30	1.29
25:X2:714:PHE:CZ	26:Y2:1316:GLU:HG3	1.67	1.29
27:Z2:46:TYR:CD1	27:Z2:46:TYR:O	1.85	1.29
25:X2:775:THR:CA	25:X2:794:ILE:CD1	2.02	1.29
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:N	1.48	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:428:TYR:CZ	27:Z1:435:SER:OG	1.71	1.29
1:A2:1204:TRP:HE1	1:A1:599:ARG:CA	1.46	1.28
6:F2:143:GLY:CA	9:I2:1395:LEU:HD23	1.61	1.28
18:R1:406:GLU:HB2	18:R1:447:PHE:CD1	1.28	1.28
22:U1:209:PRO:CG	27:Z1:658:LEU:O	1.79	1.28
25:X1:793:LEU:CD2	27:Z1:680:TRP:HD1	1.45	1.28
25:X2:822:LYS:C	27:Z1:262:ASN:ND2	1.82	1.28
26:Y2:1211:LEU:CD1	26:Y2:1214:ILE:HD12	1.63	1.28
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CG1	1.95	1.28
27:Z2:125:SER:HB3	27:Z2:148:ASP:OD2	1.23	1.28
27:Z2:437:LEU:CD1	27:Z2:448:GLN:NE2	1.91	1.28
9:I2:1255:HIS:CG	14:N3:407:ALA:CB	2.15	1.28
17:Q2:852:ILE:CD1	17:Q2:913:LYS:NZ	1.95	1.28
25:X2:788:ASP:N	25:X2:789:GLU:N	1.80	1.28
26:Y2:1450:GLY:CA	27:Z2:330:ASP:OD2	1.80	1.28
27:Z1:69:PHE:HD1	27:Z1:84:ASN:OD1	1.02	1.28
1:A3:1223:GLU:CG	1:A4:648:TYR:CE2	2.03	1.28
9:I2:1253:GLY:N	14:N3:409:ALA:CA	1.97	1.28
25:X1:726:VAL:C	25:X1:727:SER:CA	2.00	1.28
25:X2:692:LYS:CA	27:Z2:431:TRP:CE3	2.15	1.28
26:Y1:1338:GLN:O	27:Z1:630:TRP:CH2	1.71	1.28
26:Y1:1382:VAL:C	26:Y2:1364:ASN:CB	1.99	1.28
26:Y1:1392:ARG:NH1	27:Z1:690:ASP:HA	1.47	1.28
27:Z1:129:LYS:HZ1	27:Z1:185:LEU:CB	1.44	1.28
27:Z2:84:ASN:O	27:Z2:127:ILE:CD1	1.79	1.28
4:D1:468:LYS:HD2	1:A1:999:SER:OG	1.30	1.28
6:F1:132:THR:OG1	9:I1:1334:PRO:HD3	1.30	1.28
9:I1:1606:GLU:HG3	9:I2:1669:ARG:CZ	1.45	1.28
1:A4:521:ASN:CB	4:D3:1019:ARG:NH2	1.75	1.28
1:A4:929:ASN:HD22	4:D3:468:LYS:CE	1.42	1.28
9:I2:888:GLU:OE2	13:M3:597:LYS:CB	1.79	1.28
9:I2:1048:GLU:OE2	14:N3:293:LYS:CB	1.82	1.28
9:I2:1050:SER:OG	14:N3:292:ARG:CG	1.80	1.28
9:I2:1253:GLY:CA	14:N3:410:MET:N	1.94	1.28
27:Z1:216:LEU:HD11	27:Z1:272:ILE:CD1	1.60	1.28
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HB	1.66	1.28
27:Z1:393:LEU:HD23	27:Z1:405:LEU:CD2	1.64	1.28
27:Z2:393:LEU:CD2	27:Z2:405:LEU:HD21	1.63	1.28
9:I2:960:SER:HB2	16:P3:154:ALA:C	1.53	1.27
9:I2:1102:GLN:O	15:O3:276:GLY:N	1.64	1.27
22:U1:294:VAL:HG12	27:Z1:657:TYR:O	1.31	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:665:TRP:CZ2	27:Z1:560:LEU:HD11	1.69	1.27
25:X1:789:GLU:C	27:Z1:669:THR:C	1.89	1.27
25:X2:692:LYS:O	27:Z2:431:TRP:CE3	1.86	1.27
27:Z1:46:TYR:CD1	27:Z1:46:TYR:O	1.84	1.27
27:Z1:209:TYR:CE1	27:Z1:335:MET:CB	2.14	1.27
27:Z2:184:ASP:OD1	27:Z2:197:LEU:HB3	1.16	1.27
27:Z2:252:GLN:NE2	27:Z2:335:MET:N	1.81	1.27
27:Z2:611:GLN:C	27:Z2:611:GLN:CA	2.02	1.27
1:A3:1099:GLN:NE2	9:I2:1416:GLY:O	1.67	1.27
6:F1:135:VAL:HG12	9:I1:1336:MET:CG	1.41	1.27
9:I1:977:ASN:ND2	15:O1:174:LEU:O	1.67	1.27
9:I1:1667:GLN:CG	9:I2:1669:ARG:CB	2.10	1.27
9:I2:813:ILE:HG22	15:O3:241:SER:CB	1.64	1.27
9:I2:982:GLN:HG2	15:O3:179:LEU:CD1	1.49	1.27
13:M3:469:GLU:OE1	13:M4:536:GLU:HB2	1.16	1.27
13:M3:469:GLU:OE1	13:M4:536:GLU:CB	1.80	1.27
27:Z1:129:LYS:HE2	27:Z1:185:LEU:CG	1.59	1.27
27:Z2:116:ILE:CD1	27:Z2:125:SER:O	1.82	1.27
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HB	1.67	1.27
27:Z2:393:LEU:HD23	27:Z2:405:LEU:CD2	1.64	1.27
27:Z2:642:ASN:CA	27:Z2:643:SER:H	1.48	1.27
9:I1:917:TYR:CE1	13:M1:534:GLN:OE1	1.86	1.27
9:I2:1168:ALA:HB2	15:O3:270:THR:N	0.95	1.27
18:R1:436:LEU:HA	18:R1:449:LEU:C	1.53	1.27
18:R1:436:LEU:CA	18:R1:449:LEU:O	1.82	1.27
24:W1:526:ARG:O	24:W1:744:VAL:N	1.68	1.27
25:X1:714:PHE:CZ	26:Y1:1316:GLU:HG3	1.67	1.27
27:Z1:184:ASP:OD1	27:Z1:197:LEU:HB3	1.16	1.27
27:Z1:387:MET:CE	27:Z1:391:SER:CB	2.12	1.27
27:Z1:404:PRO:CD	27:Z2:262:ASN:HB3	1.62	1.27
27:Z2:35:ILE:CD1	27:Z2:429:ILE:HD12	1.65	1.27
1:A3:1086:LYS:CA	4:D3:1096:TYR:CE1	2.12	1.27
7:G2:252:LEU:O	15:O4:252:VAL:HG23	1.10	1.27
9:I2:977:ASN:O	15:O3:174:LEU:CA	1.81	1.27
22:U1:248:LYS:C	25:X1:805:ARG:HB3	1.51	1.27
22:U1:291:ASN:O	25:X1:805:ARG:NH2	1.65	1.27
25:X2:665:TRP:CZ2	27:Z2:560:LEU:HD11	1.69	1.27
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:HB2	1.62	1.27
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HB	1.69	1.27
1:A2:1224:PRO:CG	1:A1:648:TYR:CZ	2.18	1.27
9:I2:902:GLN:CB	13:M3:580:LYS:CB	1.76	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1253:GLY:N	14:N3:409:ALA:N	1.82	1.27
20:S1:568:ALA:HA	21:T1:86:ASN:CG	1.53	1.27
25:X2:693:ILE:HD12	27:Z2:7:LEU:CG	1.62	1.27
25:X2:822:LYS:CB	27:Z1:262:ASN:ND2	1.98	1.27
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CE2	2.16	1.27
26:Y2:1392:ARG:NH1	27:Z2:690:ASP:HA	1.47	1.27
27:Z1:116:ILE:CD1	27:Z1:125:SER:O	1.82	1.27
27:Z1:252:GLN:NE2	27:Z1:335:MET:N	1.80	1.27
27:Z1:393:LEU:CD2	27:Z1:405:LEU:CD2	2.13	1.27
27:Z2:216:LEU:HD11	27:Z2:272:ILE:CD1	1.60	1.27
1:A4:521:ASN:HB2	4:D3:1019:ARG:NH2	0.95	1.26
1:A4:715:GLU:CB	4:D3:973:GLN:NE2	1.92	1.26
9:I1:1048:GLU:CB	14:N1:293:LYS:HZ1	1.48	1.26
9:I1:1246:ILE:HD11	15:O1:255:GLY:CA	1.63	1.26
9:I1:1606:GLU:OE2	9:I2:1669:ARG:CD	1.80	1.26
9:I2:1253:GLY:HA2	14:N3:410:MET:N	1.49	1.26
17:Q1:444:GLU:O	17:Q1:504:PHE:HA	1.30	1.26
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:CE	2.12	1.26
26:Y2:1321:MET:CA	27:Z1:47:ASN:O	1.82	1.26
27:Z1:35:ILE:CD1	27:Z1:429:ILE:HD12	1.65	1.26
27:Z2:129:LYS:NZ	27:Z2:185:LEU:CB	1.92	1.26
27:Z2:188:SER:CB	27:Z2:195:TYR:HE2	1.48	1.26
1:A2:1331:GLU:HB3	4:D1:899:THR:O	1.33	1.26
7:G2:254:ASN:ND2	15:O4:256:TYR:HB2	1.49	1.26
9:I1:980:ILE:HD13	15:O1:175:SER:N	1.46	1.26
22:U1:209:PRO:HG2	27:Z1:659:LYS:N	1.50	1.26
22:U1:296:LEU:CA	27:Z1:657:TYR:CB	2.04	1.26
25:X1:658:TYR:CD2	27:Z1:549:ILE:HD13	1.69	1.26
25:X1:789:GLU:HG2	27:Z1:680:TRP:CE2	1.70	1.26
25:X2:778:LYS:CG	25:X2:795:LYS:N	1.94	1.26
26:Y1:1456:LEU:C	26:Y1:1456:LEU:HB2	1.52	1.26
26:Y2:1294:LYS:CD	27:Z2:588:TRP:CD1	2.18	1.26
26:Y2:1332:LYS:CA	27:Z1:109:PHE:CE1	2.17	1.26
27:Z1:24:ARG:NE	27:Z1:440:MET:HB3	1.50	1.26
27:Z2:27:PHE:CE2	27:Z2:36:VAL:HG21	1.46	1.26
27:Z2:216:LEU:CD1	27:Z2:272:ILE:CD1	2.05	1.26
1:A2:1224:PRO:O	1:A1:648:TYR:CE2	1.89	1.26
6:F1:141:ALA:CB	9:I1:1390:PHE:CD2	2.19	1.26
9:I1:917:TYR:CD1	13:M1:534:GLN:CD	1.95	1.26
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HB3	1.37	1.26
10:J1:249:ASP:HB3	15:O1:272:SER:O	1.29	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:637:LEU:C	26:Y1:1218:PHE:HE2	1.39	1.26
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CE	1.97	1.26
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:CE	2.12	1.26
26:Y2:1443:MET:HE3	27:Z2:332:GLU:CD	1.41	1.26
27:Z1:188:SER:CB	27:Z1:195:TYR:HE2	1.48	1.26
27:Z2:294:LEU:HD21	27:Z2:353:ARG:NH2	1.49	1.26
6:F1:1806:ARG:C	14:N2:412:ASN:ND2	1.85	1.26
9:I1:906:GLY:CA	13:M1:572:GLU:HG3	1.62	1.26
9:I2:964:SER:H	16:P3:152:LYS:CB	1.47	1.26
10:J1:250:THR:OG1	15:O1:277:GLU:CB	1.67	1.26
18:R1:406:GLU:CB	18:R1:447:PHE:CD1	2.18	1.26
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CE2	2.16	1.26
27:Z1:137:TYR:CD2	27:Z1:215:VAL:O	1.88	1.26
1:A3:1223:GLU:CG	1:A4:647:GLU:HB2	1.66	1.26
1:A4:827:ILE:CG2	1:A4:849:SER:N	1.98	1.26
7:G2:254:ASN:HD22	15:O4:256:TYR:CB	1.47	1.26
9:I2:959:SER:O	16:P3:151:LYS:HG2	1.28	1.26
20:S1:568:ALA:C	21:T1:86:ASN:HD21	1.38	1.26
25:X1:662:ILE:CD1	27:Z1:549:ILE:HG23	1.65	1.26
25:X1:751:LEU:HD13	27:Z1:638:ILE:CD1	1.65	1.26
25:X2:775:THR:CA	25:X2:794:ILE:HD13	1.64	1.26
26:Y2:1211:LEU:O	26:Y2:1215:GLU:HG2	1.33	1.26
26:Y2:1321:MET:CA	27:Z1:51:ASP:HB2	1.63	1.26
27:Z1:216:LEU:HD21	27:Z1:272:ILE:CD1	1.60	1.26
27:Z1:541:LYS:CE	27:Z2:553:ILE:HG13	1.64	1.26
27:Z1:641:PHE:CZ	27:Z1:645:VAL:HG22	1.71	1.26
1:A3:1084:ARG:HA	4:D3:1095:ARG:CD	1.65	1.25
6:F2:132:THR:HG21	9:I2:1334:PRO:CA	1.66	1.25
25:X2:692:LYS:CB	27:Z2:431:TRP:CH2	2.19	1.25
25:X2:695:GLN:CB	27:Z2:431:TRP:CE3	2.19	1.25
26:Y2:1332:LYS:HA	27:Z1:109:PHE:CE1	1.71	1.25
27:Z2:27:PHE:CZ	27:Z2:36:VAL:CG2	2.06	1.25
1:A3:1223:GLU:O	1:A4:594:LEU:HD23	1.10	1.25
9:I2:1171:GLU:CD	14:N3:427:VAL:HG11	1.55	1.25
18:R1:402:GLY:N	18:R1:444:ALA:CB	1.96	1.25
22:U1:296:LEU:HA	27:Z1:657:TYR:CB	1.40	1.25
25:X2:658:TYR:CD2	27:Z2:549:ILE:HD13	1.70	1.25
26:Y1:1294:LYS:CD	27:Z1:588:TRP:CD1	2.17	1.25
27:Z2:137:TYR:CD2	27:Z2:215:VAL:C	1.98	1.25
27:Z2:189:LYS:C	27:Z2:311:GLN:CD	1.91	1.25
27:Z2:625:HIS:NE2	27:Z2:628:MET:CB	1.99	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:673:LEU:CD1	1:A1:1094:ILE:HG12	1.65	1.25
6:F1:166:THR:HB	9:I1:1331:LYS:NZ	1.48	1.25
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CZ	1.72	1.25
6:F2:137:ASN:O	9:I2:1391:THR:CB	1.83	1.25
7:G2:249:ASP:CA	15:O4:251:ILE:CG1	2.03	1.25
7:G2:252:LEU:C	15:O4:252:VAL:HG23	1.54	1.25
9:I2:976:ARG:NH2	14:N3:293:LYS:HG3	1.37	1.25
9:I2:976:ARG:NE	14:N3:293:LYS:CG	2.00	1.25
9:I2:1031:ALA:HB1	13:M3:621:ARG:CZ	1.66	1.25
10:J2:249:ASP:OD2	14:N3:431:VAL:HG12	1.36	1.25
14:N3:267:GLU:CB	14:N4:334:LEU:O	1.80	1.25
25:X1:711:LEU:HD21	26:Y1:1309:ASP:OD2	1.07	1.25
25:X2:648:LEU:CD1	27:Z2:535:PHE:CE1	2.18	1.25
25:X2:694:ASP:HB3	27:Z2:431:TRP:O	1.17	1.25
22:U1:297:LEU:HA	27:Z1:654:ASP:OD1	1.36	1.25
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:HH21	1.48	1.25
27:Z1:69:PHE:CD1	27:Z1:84:ASN:OD1	1.90	1.25
27:Z1:209:TYR:CB	27:Z1:210:PRO:CD	1.91	1.25
9:I2:1103:LEU:HB3	13:M3:614:ASP:CB	1.66	1.25
27:Z1:294:LEU:HD21	27:Z1:353:ARG:NH2	1.49	1.25
27:Z1:297:TYR:CZ	27:Z1:321:ASP:OD1	1.89	1.25
27:Z1:403:ASN:N	27:Z2:262:ASN:CG	1.90	1.25
27:Z2:297:TYR:CZ	27:Z2:321:ASP:OD1	1.89	1.25
1:A3:1204:TRP:CZ3	1:A4:647:GLU:O	1.82	1.25
6:F1:138:ILE:CA	9:I1:1388:GLU:O	1.83	1.25
6:F2:143:GLY:C	9:I2:1395:LEU:HD23	1.53	1.25
9:I1:977:ASN:HB2	15:O1:174:LEU:C	1.57	1.25
9:I2:928:LEU:HD11	15:O3:180:ASP:N	1.13	1.25
9:I2:1304:ASN:OD1	14:N3:412:ASN:C	1.75	1.25
25:X1:637:LEU:N	26:Y1:1218:PHE:CE2	2.03	1.25
27:Z1:223:LEU:HD11	27:Z1:263:TRP:NE1	0.94	1.25
27:Z1:544:THR:OG1	27:Z2:555:GLU:HA	1.08	1.25
27:Z1:642:ASN:CA	27:Z1:643:SER:H	1.48	1.25
27:Z2:137:TYR:HB2	27:Z2:269:LYS:CD	1.60	1.25
27:Z2:223:LEU:HD11	27:Z2:263:TRP:NE1	0.94	1.25
1:A1:827:ILE:CG2	1:A1:849:SER:N	1.98	1.25
9:I1:896:PRO:HB3	13:M1:583:ASP:CB	1.48	1.25
9:I1:906:GLY:HA2	13:M1:572:GLU:CG	1.65	1.25
9:I2:915:ALA:H	15:O3:193:ALA:C	1.19	1.25
9:I2:963:LEU:HD13	16:P3:147:LEU:O	1.32	1.25
10:J1:252:LEU:HD13	15:O1:273:ASP:CB	1.65	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:742:GLN:CG	25:X1:743:GLN:CA	2.14	1.25
25:X2:751:LEU:HD13	27:Z2:638:ILE:CD1	1.64	1.25
26:Y1:1225:PHE:CE2	27:Z1:539:ILE:HG12	1.14	1.25
27:Z2:69:PHE:CD1	27:Z2:84:ASN:OD1	1.89	1.25
27:Z2:217:LEU:HD23	27:Z2:269:LYS:CD	1.58	1.25
1:A3:1332:ARG:NH2	4:D3:899:THR:O	1.67	1.24
6:F1:139:GLN:NE2	9:I1:1336:MET:SD	2.08	1.24
9:I1:976:ARG:N	14:N1:301:LEU:HD21	0.91	1.24
9:I2:923:GLY:HA3	15:O3:190:ARG:NH2	1.49	1.24
17:Q1:385:THR:HG23	17:Q1:507:ILE:CG2	1.44	1.24
22:U1:288:LEU:O	25:X1:797:LEU:N	1.68	1.24
25:X1:811:SER:OG	27:Z1:701:LEU:CD1	1.85	1.24
26:Y1:1435:LYS:CE	27:Z1:225:LEU:HD23	1.67	1.24
26:Y2:1367:LYS:N	26:Y2:1383:ALA:CB	2.00	1.24
26:Y2:1382:VAL:HG11	26:Y2:1385:LEU:CB	1.65	1.24
27:Z1:216:LEU:CD1	27:Z1:272:ILE:CD1	2.05	1.24
27:Z2:137:TYR:CD2	27:Z2:215:VAL:O	1.89	1.24
27:Z2:387:MET:CE	27:Z2:391:SER:CB	2.12	1.24
1:A2:1275:PRO:HD2	1:A1:726:ALA:CB	1.57	1.24
25:X1:655:PHE:CZ	27:Z1:545:LEU:CB	2.20	1.24
25:X2:692:LYS:CA	27:Z2:431:TRP:CZ3	2.20	1.24
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CZ	2.10	1.24
27:Z1:27:PHE:CE2	27:Z1:36:VAL:HG21	1.46	1.24
27:Z1:540:VAL:O	27:Z2:555:GLU:HG3	1.19	1.24
27:Z2:35:ILE:HG13	27:Z2:46:TYR:OH	1.27	1.24
9:I1:1051:LYS:CB	14:N1:293:LYS:CE	2.13	1.24
9:I2:914:ASN:HA	15:O3:194:GLU:N	1.51	1.24
9:I2:916:ALA:HB1	15:O3:189:ARG:C	1.54	1.24
9:I2:1304:ASN:OD1	14:N3:412:ASN:CA	1.76	1.24
25:X1:648:LEU:CD1	27:Z1:535:PHE:CE1	2.18	1.24
25:X1:707:LEU:CD1	26:Y1:1306:ILE:HG12	1.66	1.24
25:X2:697:LEU:O	25:X2:701:GLU:HG3	1.35	1.24
27:Z1:24:ARG:HH21	27:Z1:440:MET:CG	1.41	1.24
27:Z1:223:LEU:HD11	27:Z1:263:TRP:CE2	1.73	1.24
1:A3:1086:LYS:C	4:D3:1096:TYR:HE1	1.40	1.24
9:I1:967:SER:CB	15:O1:178:ASP:HA	1.60	1.24
9:I2:1160:ILE:CD1	15:O3:263:GLN:O	1.85	1.24
22:U1:289:GLN:NE2	25:X1:794:ILE:HG12	1.50	1.24
25:X1:815:GLU:CA	26:Y1:1402:LEU:HD21	1.67	1.24
25:X2:693:ILE:CD1	27:Z2:7:LEU:HD12	1.66	1.24
25:X2:694:ASP:C	27:Z2:432:ASN:N	1.91	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1277:LYS:CE	27:Z1:571:ILE:HG13	1.67	1.24
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:NZ	2.00	1.24
27:Z1:57:LEU:CD2	27:Z1:109:PHE:HD2	1.51	1.24
27:Z2:57:LEU:CD2	27:Z2:109:PHE:CD2	2.21	1.24
27:Z2:287:ILE:CD1	27:Z2:348:LEU:HD12	1.67	1.24
1:A2:1229:VAL:CB	1:A1:640:LEU:HA	1.50	1.24
1:A2:1328:ARG:HH21	4:D1:898:ASP:CG	1.36	1.24
9:I2:887:GLN:NE2	13:M3:597:LYS:NZ	1.86	1.24
9:I2:976:ARG:HE	14:N3:293:LYS:CG	1.48	1.24
9:I2:1027:ALA:C	13:M3:612:PRO:O	1.75	1.24
9:I2:1171:GLU:OE2	14:N3:427:VAL:HG11	1.26	1.24
22:U1:294:VAL:CG1	27:Z1:657:TYR:O	1.84	1.24
22:U1:296:LEU:HD12	27:Z1:653:GLN:O	1.36	1.24
27:Z1:188:SER:CB	27:Z1:195:TYR:CE2	2.20	1.24
1:A4:1094:ILE:CG2	4:D3:675:LEU:HD21	1.68	1.23
6:F2:1267:ARG:HH12	15:O4:262:ASP:CB	1.41	1.23
9:I1:912:VAL:HG23	15:O1:198:ARG:NH1	1.50	1.23
9:I1:925:LEU:HD13	15:O1:184:ARG:CB	1.68	1.23
9:I1:1606:GLU:HG2	9:I2:1669:ARG:NH2	1.49	1.23
9:I2:976:ARG:CB	14:N3:297:ALA:CA	2.06	1.23
10:J2:247:ASP:CG	15:O3:279:ILE:HD11	1.59	1.23
17:Q2:929:LEU:HB3	19:R2:714:TYR:OH	1.13	1.23
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CA	2.00	1.23
26:Y2:1277:LYS:CE	27:Z2:571:ILE:HG13	1.67	1.23
27:Z1:27:PHE:CZ	27:Z1:36:VAL:CG2	2.06	1.23
27:Z1:57:LEU:CD2	27:Z1:109:PHE:CD2	2.21	1.23
27:Z1:325:ILE:CG2	27:Z1:350:LEU:CD1	2.15	1.23
27:Z2:192:LEU:HD11	27:Z2:226:ILE:CD1	1.68	1.23
9:I2:1171:GLU:OE2	14:N3:427:VAL:CG1	1.86	1.23
17:Q2:891:ILE:CD1	19:R2:715:LEU:CD2	1.85	1.23
25:X1:776:PHE:CE1	25:X1:795:LYS:HD3	1.72	1.23
25:X2:655:PHE:CZ	27:Z2:545:LEU:CB	2.20	1.23
25:X2:788:ASP:N	25:X2:788:ASP:O	1.66	1.23
26:Y2:1334:LEU:HD22	27:Z1:107:ASP:C	1.59	1.23
27:Z2:57:LEU:CD2	27:Z2:109:PHE:HD2	1.51	1.23
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HB	1.70	1.23
27:Z2:611:GLN:O	27:Z2:612:ILE:CA	1.86	1.23
7:G1:252:LEU:CD2	15:O2:244:GLU:CG	2.16	1.23
9:I1:918:SER:CA	15:O1:193:ALA:H	1.52	1.23
9:I1:1050:SER:OG	14:N1:293:LYS:HA	1.14	1.23
17:Q1:381:TYR:C	17:Q1:512:ILE:CG1	2.07	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:811:SER:O	26:Y2:1402:LEU:HD11	1.06	1.23
26:Y1:1285:ASN:O	26:Y1:1289:GLN:HG2	1.39	1.23
26:Y2:1400:LYS:O	26:Y2:1404:GLU:HG3	1.38	1.23
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CA	2.00	1.23
1:A2:1228:TYR:CZ	1:A1:642:ARG:NE	2.06	1.23
1:A3:1223:GLU:CB	1:A4:648:TYR:CG	2.00	1.23
7:G1:249:ASP:N	15:O2:247:TRP:CZ2	2.07	1.23
9:I2:1025:LEU:O	13:M3:613:ASP:CB	1.86	1.23
22:U1:289:GLN:OE1	25:X1:794:ILE:HG12	1.36	1.23
25:X2:662:ILE:CD1	27:Z2:549:ILE:HG23	1.65	1.23
26:Y2:1317:TYR:CE1	27:Z1:48:VAL:C	2.12	1.23
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:HE2	1.66	1.23
26:Y2:1435:LYS:CE	27:Z2:225:LEU:HD23	1.67	1.23
27:Z1:35:ILE:CD1	27:Z1:429:ILE:CD1	2.17	1.23
27:Z1:69:PHE:HA	27:Z1:84:ASN:ND2	0.92	1.23
27:Z2:35:ILE:CB	27:Z2:46:TYR:CE2	2.22	1.23
27:Z2:55:HIS:CE1	27:Z2:98:SER:OG	1.92	1.23
27:Z2:325:ILE:CG2	27:Z2:350:LEU:CD1	2.15	1.23
1:A2:1274:ASP:O	1:A1:642:ARG:NH1	1.71	1.23
6:F1:158:PRO:HG2	9:I1:1339:LEU:N	1.51	1.23
6:F2:158:PRO:CB	9:I2:1337:ALA:HB1	1.69	1.23
9:I2:981:VAL:CG2	15:O3:175:SER:CB	2.16	1.23
24:W1:523:ASP:CG	24:W1:738:ARG:H	1.39	1.23
25:X1:807:LEU:CD2	27:Z1:698:ASN:HA	1.67	1.23
25:X2:811:SER:OG	27:Z2:701:LEU:CD1	1.85	1.23
26:Y1:1371:VAL:O	26:Y1:1372:LYS:CA	1.86	1.23
27:Z2:69:PHE:HA	27:Z2:84:ASN:ND2	0.91	1.23
27:Z2:393:LEU:CD2	27:Z2:405:LEU:CD2	2.13	1.23
27:Z2:679:GLU:CA	27:Z2:679:GLU:N	2.01	1.23
1:A4:172:PRO:CB	4:D3:991:ASP:OD2	1.87	1.22
9:I1:966:TRP:CA	15:O1:181:HIS:N	1.70	1.22
17:Q1:448:SER:CB	17:Q1:546:ILE:HG21	1.68	1.22
25:X2:685:MET:N	27:Z2:445:LEU:O	1.72	1.22
25:X2:692:LYS:C	27:Z2:431:TRP:CE3	2.12	1.22
25:X2:788:ASP:N	25:X2:788:ASP:CB	2.01	1.22
25:X2:815:GLU:CA	26:Y2:1402:LEU:HD21	1.67	1.22
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:HB2	1.68	1.22
27:Z1:55:HIS:CE1	27:Z1:98:SER:OG	1.92	1.22
27:Z1:244:ILE:HG13	27:Z1:344:TYR:OH	1.33	1.22
27:Z2:641:PHE:CZ	27:Z2:645:VAL:HG22	1.71	1.22
1:A2:1230:TYR:CE1	1:A1:590:SER:HA	1.72	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:871:ASN:HB3	4:D1:515:ASN:ND2	1.51	1.22
1:A3:871:ASN:HA	4:D1:515:ASN:CB	1.66	1.22
1:A3:1220:PRO:CB	1:A4:595:GLU:OE1	1.80	1.22
9:I1:1246:ILE:CD1	15:O1:255:GLY:HA2	1.69	1.22
9:I2:888:GLU:OE2	13:M3:597:LYS:HB2	1.10	1.22
9:I2:928:LEU:CD1	15:O3:180:ASP:N	1.93	1.22
9:I2:1103:LEU:CG	13:M3:611:LYS:HB3	1.68	1.22
25:X1:742:GLN:CD	25:X1:743:GLN:CG	2.02	1.22
25:X2:692:LYS:CA	27:Z2:431:TRP:CZ2	2.22	1.22
26:Y2:1362:LEU:CG	26:Y2:1387:LYS:CE	2.07	1.22
27:Z1:192:LEU:HD11	27:Z1:226:ILE:CD1	1.68	1.22
27:Z1:209:TYR:CB	27:Z1:210:PRO:HD3	1.60	1.22
1:A2:1328:ARG:HD3	4:D1:976:ARG:NE	0.90	1.22
9:I1:838:GLU:HG3	15:O1:198:ARG:NE	1.49	1.22
9:I2:1253:GLY:N	14:N3:409:ALA:HB3	1.52	1.22
22:U1:192:ILE:CA	27:Z1:664:ARG:HG3	1.67	1.22
25:X1:721:LEU:HD11	26:Y1:1316:GLU:OE1	1.06	1.22
25:X2:692:LYS:O	27:Z2:431:TRP:CZ3	1.93	1.22
25:X2:707:LEU:CD1	26:Y2:1306:ILE:HG12	1.66	1.22
27:Z1:57:LEU:HD22	27:Z1:109:PHE:CE2	1.74	1.22
27:Z1:287:ILE:CD1	27:Z1:348:LEU:HD12	1.67	1.22
27:Z2:35:ILE:CD1	27:Z2:429:ILE:CD1	2.17	1.22
27:Z2:223:LEU:HD11	27:Z2:263:TRP:CE2	1.73	1.22
7:G1:250:THR:OG1	15:O2:247:TRP:CZ3	1.90	1.22
9:I1:917:TYR:OH	13:M1:534:GLN:O	1.58	1.22
9:I2:1095:TYR:HE1	15:O3:267:ALA:C	1.29	1.22
9:I2:1103:LEU:HB2	13:M3:611:LYS:NZ	1.53	1.22
22:U1:297:LEU:C	27:Z1:654:ASP:N	1.91	1.22
25:X2:695:GLN:OE1	27:Z2:48:VAL:HG21	1.06	1.22
25:X2:807:LEU:CD2	27:Z2:698:ASN:HA	1.67	1.22
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CE2	2.12	1.22
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CE2	2.23	1.22
27:Z2:640:GLN:C	27:Z2:640:GLN:CA	2.08	1.22
6:F1:1267:ARG:HG2	15:O2:255:GLY:N	1.28	1.22
9:I2:919:ALA:HB3	16:P3:157:GLU:CG	1.70	1.22
9:I2:1253:GLY:N	14:N3:409:ALA:CB	2.03	1.22
22:U1:209:PRO:HD3	27:Z1:662:LEU:N	1.53	1.22
22:U1:248:LYS:C	25:X1:805:ARG:CB	2.03	1.22
25:X2:694:ASP:CB	27:Z2:431:TRP:C	2.08	1.22
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:CD2	1.69	1.22
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CE2	2.12	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:640:GLN:CA	27:Z1:640:GLN:C	2.08	1.22
27:Z2:23:PRO:N	27:Z2:23:PRO:O	1.73	1.22
1:A1:827:ILE:CG2	1:A1:849:SER:C	2.08	1.22
7:G2:249:ASP:HA	15:O4:251:ILE:CD1	1.71	1.21
9:I1:967:SER:OG	15:O1:178:ASP:HA	1.06	1.21
9:I1:1051:LYS:CB	14:N1:293:LYS:CD	2.17	1.21
9:I1:1246:ILE:CD1	15:O1:255:GLY:CA	2.17	1.21
9:I2:809:HIS:HD2	15:O3:243:LEU:CA	1.53	1.21
25:X2:695:GLN:NE2	27:Z2:429:ILE:CG2	2.04	1.21
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CZ	2.10	1.21
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:CD2	1.69	1.21
6:F1:135:VAL:O	9:I1:1392:VAL:HG11	1.25	1.21
9:I2:1049:LEU:CB	14:N3:293:LYS:CA	2.08	1.21
10:J1:247:ASP:OD2	15:O1:276:GLY:CA	1.85	1.21
25:X1:778:LYS:O	25:X1:778:LYS:HG3	1.39	1.21
25:X2:692:LYS:CA	27:Z2:431:TRP:CH2	2.23	1.21
26:Y2:1285:ASN:O	26:Y2:1289:GLN:HG2	1.38	1.21
26:Y2:1332:LYS:CA	27:Z1:109:PHE:HZ	1.42	1.21
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:NZ	2.00	1.21
27:Z1:404:PRO:HA	27:Z2:271:ASP:OD2	1.34	1.21
27:Z2:582:GLU:OE2	27:Z2:586:LYS:CE	1.87	1.21
9:I1:908:ARG:HG3	15:O1:209:LEU:CD1	1.71	1.21
9:I1:918:SER:CA	15:O1:193:ALA:N	2.03	1.21
9:I1:1359:ASP:OD1	15:O1:264:ILE:CD1	1.87	1.21
9:I2:1109:LEU:HB3	15:O3:284:LYS:NZ	1.52	1.21
25:X1:789:GLU:OE2	25:X1:793:LEU:HD11	1.06	1.21
26:Y2:1368:LEU:N	26:Y2:1383:ALA:HB2	1.55	1.21
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CE1	1.94	1.21
27:Z1:189:LYS:C	27:Z1:311:GLN:CD	1.91	1.21
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CE2	2.23	1.21
27:Z1:582:GLU:OE2	27:Z1:586:LYS:CE	1.88	1.21
1:A2:1203:TYR:HB2	1:A1:595:GLU:OE2	1.04	1.21
1:A2:1221:ILE:HG12	1:A1:596:ARG:CG	1.71	1.21
1:A2:1313:LYS:HZ3	1:A1:728:LYS:NZ	1.37	1.21
25:X1:697:LEU:O	25:X1:701:GLU:HG3	1.34	1.21
25:X2:690:GLN:C	27:Z2:7:LEU:HD23	1.61	1.21
27:Z1:541:LYS:HD2	27:Z2:549:ILE:O	1.33	1.21
1:A2:1386:GLU:OE1	1:A1:728:LYS:CE	1.87	1.21
4:D1:673:LEU:CD1	1:A1:1094:ILE:CD1	2.19	1.21
4:D1:673:LEU:HD11	1:A1:1094:ILE:CG1	1.70	1.21
7:G1:252:LEU:CD2	15:O2:244:GLU:HG3	1.70	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:980:ILE:CD1	15:O1:175:SER:H	1.52	1.21
9:I2:976:ARG:CB	14:N3:297:ALA:HB2	1.67	1.21
9:I2:1031:ALA:CB	13:M3:621:ARG:NH1	2.04	1.21
22:U1:241:ARG:NH1	27:Z1:659:LYS:NZ	1.86	1.21
27:Z1:217:LEU:HD23	27:Z1:269:LYS:CD	1.58	1.21
27:Z1:381:ILE:O	27:Z1:417:ILE:HG12	1.03	1.21
27:Z1:541:LYS:NZ	27:Z2:549:ILE:O	1.73	1.21
1:A1:827:ILE:HG21	1:A1:849:SER:C	1.61	1.21
1:A3:1204:TRP:CE3	1:A4:647:GLU:O	1.93	1.20
9:I1:978:LYS:HG2	15:O1:176:ARG:NH1	1.56	1.20
9:I1:1359:ASP:OD1	15:O1:264:ILE:HD13	1.05	1.20
9:I2:814:SER:OG	15:O3:245:GLU:OE2	1.57	1.20
9:I2:1253:GLY:C	14:N3:409:ALA:N	1.94	1.20
25:X1:790:ASN:N	27:Z1:669:THR:O	1.72	1.20
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CB	2.17	1.20
27:Z1:35:ILE:CB	27:Z1:46:TYR:CE2	2.22	1.20
1:A3:1084:ARG:HA	4:D3:1095:ARG:NE	1.52	1.20
9:I1:918:SER:HB2	15:O1:193:ALA:H	1.05	1.20
9:I2:896:PRO:CG	13:M3:588:MET:HE2	1.70	1.20
25:X2:711:LEU:HD21	26:Y2:1309:ASP:OD2	1.07	1.20
25:X2:721:LEU:HD11	26:Y2:1316:GLU:OE1	1.06	1.20
26:Y1:1409:LEU:CB	27:Z1:711:LYS:HZ3	1.55	1.20
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:CE	1.69	1.20
27:Z1:24:ARG:NH2	27:Z1:440:MET:CB	2.04	1.20
27:Z2:57:LEU:HD22	27:Z2:109:PHE:CE2	1.74	1.20
27:Z2:188:SER:CB	27:Z2:195:TYR:CE2	2.20	1.20
1:A4:827:ILE:CG2	1:A4:849:SER:C	2.08	1.20
9:I1:963:LEU:HD12	15:O1:182:THR:HG21	1.22	1.20
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:CD1	1.70	1.20
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HA	1.69	1.20
27:Z1:314:ILE:HD12	27:Z1:386:PHE:CE2	1.76	1.20
27:Z1:401:ASP:OD1	27:Z2:260:HIS:C	1.80	1.20
27:Z1:544:THR:HA	27:Z2:558:PHE:CD2	1.77	1.20
27:Z2:27:PHE:CE1	27:Z2:36:VAL:CG1	2.10	1.20
27:Z2:244:ILE:HG13	27:Z2:344:TYR:OH	1.33	1.20
9:I2:977:ASN:H	15:O3:174:LEU:CD2	1.44	1.20
9:I2:1099:ARG:CA	15:O3:272:SER:HB3	1.68	1.20
22:U1:289:GLN:NE2	25:X1:794:ILE:CG1	2.05	1.20
26:Y2:1370:THR:HG22	27:Z2:662:LEU:HD21	1.24	1.20
27:Z1:137:TYR:CD2	27:Z1:215:VAL:C	1.98	1.20
27:Z1:213:PRO:HD2	27:Z1:216:LEU:CD2	1.72	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1226:LEU:HD21	1:A1:647:GLU:N	1.54	1.20
6:F2:1267:ARG:NH1	15:O4:262:ASP:HB2	0.88	1.20
9:I2:907:VAL:O	13:M3:576:LYS:HG2	1.39	1.20
18:R1:409:LYS:HZ2	18:R1:448:ILE:CA	1.53	1.20
22:U1:241:ARG:HB3	27:Z1:656:SER:HB2	1.22	1.20
25:X1:811:SER:O	26:Y1:1402:LEU:HD11	1.06	1.20
25:X2:774:ASN:CA	25:X2:797:LEU:HD11	1.70	1.20
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:HZ	1.41	1.20
27:Z2:31:ASN:CA	27:Z2:368:GLU:OE2	1.90	1.20
27:Z2:93:VAL:O	27:Z2:94:PRO:HD2	1.15	1.20
27:Z2:123:PRO:CA	27:Z2:123:PRO:O	1.88	1.20
6:F1:1265:GLN:HA	15:O2:252:VAL:CA	1.44	1.19
9:I1:897:GLU:CA	13:M1:580:LYS:HG3	1.43	1.19
25:X1:644:TRP:C	27:Z1:535:PHE:HZ	1.32	1.19
25:X1:644:TRP:O	27:Z1:535:PHE:HZ	1.24	1.19
25:X2:693:ILE:CD1	27:Z2:7:LEU:CD1	2.18	1.19
25:X2:823:LYS:HG2	27:Z1:270:VAL:CG1	1.69	1.19
26:Y1:1435:LYS:CE	27:Z1:225:LEU:CD2	2.21	1.19
27:Z1:84:ASN:O	27:Z1:127:ILE:HD11	1.03	1.19
27:Z2:84:ASN:O	27:Z2:127:ILE:HD11	1.03	1.19
1:A3:1223:GLU:HG2	1:A4:647:GLU:HB2	1.24	1.19
9:I2:843:GLU:OE1	15:O3:191:ARG:HD2	1.03	1.19
9:I2:888:GLU:HA	13:M3:590:LYS:O	1.42	1.19
9:I2:895:ARG:NH1	13:M3:586:ASP:OD1	1.74	1.19
25:X1:751:LEU:HD13	27:Z1:638:ILE:CG1	1.72	1.19
25:X2:665:TRP:NE1	26:Y2:1267:GLU:CB	2.04	1.19
25:X2:693:ILE:CG1	27:Z2:7:LEU:HG	1.72	1.19
26:Y2:1431:MET:CA	26:Y2:1434:PHE:CD2	2.26	1.19
27:Z1:31:ASN:CA	27:Z1:368:GLU:OE2	1.90	1.19
1:A2:1224:PRO:HG2	1:A1:648:TYR:OH	1.38	1.19
1:A2:1233:GLN:NE2	1:A1:640:LEU:CD1	1.97	1.19
9:I1:896:PRO:CA	13:M1:583:ASP:CB	2.16	1.19
22:U1:295:GLU:N	27:Z1:657:TYR:CD2	2.09	1.19
24:W1:526:ARG:CB	24:W1:740:PHE:CB	2.20	1.19
25:X2:665:TRP:NE1	26:Y2:1267:GLU:HB2	1.57	1.19
1:A2:1220:PRO:O	1:A1:599:ARG:CB	1.89	1.19
1:A2:1237:LEU:HD21	1:A1:588:SER:OG	1.04	1.19
7:G1:255:LEU:HB2	15:O2:246:LEU:H	1.02	1.19
17:Q1:361:TYR:O	17:Q1:511:PRO:CB	1.90	1.19
25:X2:726:VAL:C	25:X2:726:VAL:CA	2.10	1.19
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:CE2	2.07	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1211:LEU:C	26:Y2:1215:GLU:OE1	1.81	1.19
27:Z1:131:LEU:HD13	27:Z1:187:PHE:CE2	1.77	1.19
27:Z1:93:VAL:O	27:Z1:94:PRO:HD2	1.16	1.19
27:Z2:314:ILE:HD12	27:Z2:386:PHE:CE2	1.76	1.19
27:Z2:582:GLU:OE2	27:Z2:586:LYS:NZ	1.76	1.19
1:A2:1386:GLU:OE1	1:A1:728:LYS:HE2	1.02	1.18
6:F1:160:SER:N	9:I1:1338:PHE:CD2	1.96	1.18
9:I1:1046:HIS:CE1	15:O1:168:ALA:HA	1.78	1.18
9:I1:1049:LEU:HD11	14:N1:297:ALA:CA	1.64	1.18
9:I2:1102:GLN:N	15:O3:272:SER:HB2	1.50	1.18
25:X2:778:LYS:CD	25:X2:795:LYS:HB2	1.61	1.18
26:Y1:1367:LYS:O	26:Y1:1371:VAL:HG23	1.43	1.18
26:Y1:1383:ALA:N	26:Y2:1364:ASN:CG	1.95	1.18
26:Y2:1435:LYS:CE	27:Z2:225:LEU:CD2	2.21	1.18
27:Z1:24:ARG:CZ	27:Z1:440:MET:HB3	1.72	1.18
27:Z1:216:LEU:CD2	27:Z1:272:ILE:HD12	1.68	1.18
27:Z1:582:GLU:OE2	27:Z1:586:LYS:NZ	1.76	1.18
27:Z2:117:ASP:CA	27:Z2:124:LYS:HZ3	1.44	1.18
1:A4:827:ILE:HG21	1:A4:849:SER:C	1.61	1.18
9:I2:1107:SER:CB	13:M3:615:PRO:CG	2.00	1.18
9:I2:1254:VAL:N	14:N3:411:GLN:H	1.41	1.18
25:X1:795:LYS:HE2	27:Z1:666:GLU:CA	1.73	1.18
25:X2:644:TRP:O	27:Z2:535:PHE:HZ	1.23	1.18
25:X2:693:ILE:HB	27:Z2:7:LEU:CG	1.72	1.18
25:X2:751:LEU:HD13	27:Z2:638:ILE:CG1	1.72	1.18
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CA	2.24	1.18
27:Z1:422:ARG:CZ	27:Z1:442:ASN:HD21	1.55	1.18
27:Z2:213:PRO:HD2	27:Z2:216:LEU:CD2	1.72	1.18
1:A4:929:ASN:ND2	4:D3:468:LYS:HE3	0.88	1.18
6:F1:135:VAL:HG11	9:I1:1336:MET:CG	1.46	1.18
9:I1:1051:LYS:HB3	14:N1:293:LYS:CD	1.72	1.18
17:Q1:448:SER:CB	17:Q1:546:ILE:CG2	2.19	1.18
22:U1:293:GLN:OE1	26:Y1:1367:LYS:HE2	1.06	1.18
26:Y1:1410:GLN:HB3	27:Z1:711:LYS:HE3	1.22	1.18
26:Y2:1291:LEU:HD11	27:Z2:581:PHE:CD1	1.72	1.18
27:Z1:126:SER:N	27:Z1:147:GLU:OE1	1.77	1.18
27:Z1:282:GLN:O	27:Z1:283:GLY:HA2	1.44	1.18
27:Z2:131:LEU:HD13	27:Z2:187:PHE:CE2	1.77	1.18
1:A3:1401:VAL:HA	4:D3:873:GLN:CD	1.31	1.18
9:I1:1357:LYS:HZ1	15:O1:263:GLN:CB	1.55	1.18
22:U1:241:ARG:NH1	27:Z1:659:LYS:HZ3	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:403:ASP:CA	24:W1:723:PHE:O	1.92	1.18
25:X2:690:GLN:O	27:Z2:7:LEU:CD2	1.91	1.18
25:X2:721:LEU:CD1	26:Y2:1316:GLU:OE1	1.92	1.18
26:Y1:1386:ALA:O	26:Y2:1357:ASN:HB3	1.41	1.18
26:Y1:1431:MET:CA	26:Y1:1434:PHE:CD2	2.26	1.18
27:Z2:12:ILE:HD13	27:Z2:54:TYR:HB2	1.22	1.18
27:Z2:23:PRO:C	27:Z2:23:PRO:CA	2.13	1.18
27:Z2:126:SER:N	27:Z2:147:GLU:OE1	1.77	1.18
1:A3:871:ASN:CB	4:D1:515:ASN:HD22	1.57	1.18
6:F1:132:THR:OG1	9:I1:1334:PRO:CD	1.89	1.18
6:F1:161:ALA:O	9:I1:1335:LYS:N	1.72	1.18
9:I1:1315:GLN:HB2	15:O1:266:GLN:O	1.02	1.18
9:I2:976:ARG:N	14:N3:300:ALA:CB	2.05	1.18
9:I2:1030:ARG:H	13:M3:612:PRO:C	1.46	1.18
24:W1:523:ASP:HA	24:W1:736:ASN:O	1.43	1.18
24:W1:534:ASP:CB	24:W1:746:CYS:O	1.90	1.18
26:Y1:1400:LYS:O	26:Y1:1404:GLU:HG3	1.38	1.18
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CE	1.74	1.18
27:Z1:288:ASN:O	27:Z1:289:PRO:C	1.80	1.18
27:Z2:209:TYR:CB	27:Z2:210:PRO:HD3	1.61	1.18
27:Z2:582:GLU:OE2	27:Z2:586:LYS:HE3	1.43	1.18
1:A2:1221:ILE:CD1	1:A1:596:ARG:HD2	1.72	1.17
9:I1:912:VAL:CG2	15:O1:198:ARG:NH1	2.02	1.17
9:I2:1095:TYR:CE1	15:O3:266:GLN:C	2.16	1.17
9:I2:1103:LEU:CB	13:M3:611:LYS:NZ	2.03	1.17
10:J2:247:ASP:OD1	15:O3:279:ILE:HD11	1.39	1.17
25:X1:721:LEU:CD1	26:Y1:1316:GLU:OE1	1.92	1.17
25:X2:644:TRP:C	27:Z2:535:PHE:HZ	1.32	1.17
25:X2:822:LYS:HB3	27:Z1:262:ASN:CG	1.63	1.17
27:Z1:170:ASN:ND2	27:Z1:177:ALA:CB	2.07	1.17
27:Z2:170:ASN:ND2	27:Z2:177:ALA:CB	2.07	1.17
27:Z2:343:VAL:HB	27:Z2:346:ASN:HD22	1.02	1.17
1:A3:1326:TRP:O	4:D3:876:SER:OG	1.60	1.17
9:I1:908:ARG:HH22	13:M1:555:GLN:HB2	1.01	1.17
9:I2:843:GLU:OE1	15:O3:191:ARG:CD	1.91	1.17
25:X1:700:ILE:CD1	26:Y1:1298:TYR:CD1	2.28	1.17
25:X1:742:GLN:CG	25:X1:743:GLN:CB	2.22	1.17
25:X2:778:LYS:CD	25:X2:795:LYS:HB3	1.70	1.17
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:HD21	1.74	1.17
27:Z1:184:ASP:CG	27:Z1:197:LEU:HB3	1.65	1.17
27:Z1:205:ILE:HG22	27:Z1:285:PHE:CD2	1.80	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:263:TRP:CZ3	27:Z1:265:SER:CA	2.27	1.17
27:Z2:184:ASP:CG	27:Z2:197:LEU:HB3	1.65	1.17
1:A2:1269:ALA:O	1:A1:731:ILE:CB	1.90	1.17
1:A3:1086:LYS:C	4:D3:1096:TYR:CE1	2.17	1.17
9:I1:908:ARG:CB	15:O1:209:LEU:HD11	1.74	1.17
9:I2:899:LEU:HD12	13:M3:585:LEU:N	1.12	1.17
13:M3:469:GLU:HB2	13:M4:536:GLU:OE1	1.43	1.17
25:X1:815:GLU:CG	26:Y1:1402:LEU:CG	2.22	1.17
25:X2:637:LEU:O	25:X2:641:VAL:HG22	1.26	1.17
25:X2:695:GLN:HG3	27:Z2:431:TRP:CD2	1.79	1.17
25:X2:765:LEU:HD21	27:Z2:652:GLN:OE1	1.35	1.17
25:X2:823:LYS:CG	27:Z1:270:VAL:HG12	1.72	1.17
26:Y2:1406:VAL:O	27:Z2:711:LYS:NZ	1.78	1.17
27:Z1:137:TYR:CG	27:Z1:215:VAL:CG1	2.12	1.17
27:Z1:208:PHE:CZ	27:Z1:279:ALA:HB3	1.79	1.17
1:A2:1204:TRP:NE1	1:A1:599:ARG:CA	2.01	1.17
1:A3:1200:ARG:HB3	1:A4:591:ASP:CG	1.65	1.17
6:F1:161:ALA:C	9:I1:1335:LYS:N	1.79	1.17
9:I1:1311:LEU:CD2	15:O1:266:GLN:CB	2.19	1.17
25:X2:815:GLU:CG	26:Y2:1402:LEU:CG	2.22	1.17
26:Y1:1406:VAL:O	27:Z1:711:LYS:NZ	1.77	1.17
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CD1	2.13	1.17
26:Y2:1358:HIS:O	26:Y2:1362:LEU:HG	1.44	1.17
27:Z1:94:PRO:HB3	27:Z1:109:PHE:HZ	1.01	1.17
27:Z1:182:ILE:O	27:Z1:182:ILE:HG23	1.38	1.17
27:Z1:217:LEU:HD23	27:Z1:269:LYS:CG	1.74	1.17
27:Z1:642:ASN:CA	27:Z1:643:SER:N	2.08	1.17
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CD1	2.26	1.17
27:Z2:422:ARG:CZ	27:Z2:442:ASN:HD21	1.55	1.17
9:I1:967:SER:CB	15:O1:178:ASP:N	1.86	1.17
9:I1:1048:GLU:CD	15:O1:171:ASP:H	1.48	1.17
9:I2:1026:TYR:CE1	13:M3:609:GLY:HA2	1.79	1.17
9:I2:1049:LEU:HD12	16:P3:142:LEU:N	1.57	1.17
17:Q1:448:SER:HB2	17:Q1:546:ILE:CG2	1.75	1.17
25:X2:680:TYR:O	27:Z2:446:THR:CG2	1.93	1.17
26:Y1:1436:VAL:HG22	27:Z1:228:ASN:OD1	1.43	1.17
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:HD21	1.74	1.17
26:Y2:1367:LYS:O	26:Y2:1371:VAL:HG23	1.44	1.17
27:Z1:213:PRO:HD2	27:Z1:216:LEU:HD22	1.26	1.17
27:Z1:630:TRP:NE1	27:Z1:634:ILE:HD11	1.60	1.17
27:Z2:263:TRP:CZ3	27:Z2:265:SER:CA	2.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1229:VAL:HG22	1:A1:639:ASN:O	1.36	1.16
1:A4:1027:HIS:CE1	4:D3:478:ALA:CB	2.28	1.16
6:F1:1267:ARG:CG	15:O2:255:GLY:N	2.06	1.16
9:I1:838:GLU:CA	15:O1:198:ARG:HH21	1.58	1.16
9:I1:1051:LYS:NZ	14:N1:290:VAL:CG2	2.06	1.16
9:I2:899:LEU:HA	13:M3:580:LYS:O	1.44	1.16
9:I2:1033:PRO:HG3	13:M3:616:LEU:C	1.65	1.16
9:I2:1160:ILE:HG21	15:O3:264:ILE:HA	1.23	1.16
22:U1:209:PRO:CG	27:Z1:662:LEU:HB2	1.75	1.16
24:W1:400:LYS:HD3	24:W1:720:PHE:CB	1.75	1.16
25:X2:691:ASN:HB3	27:Z2:431:TRP:CD1	1.17	1.16
25:X2:700:ILE:CD1	26:Y2:1298:TYR:CD1	2.28	1.16
26:Y2:1288:ILE:HD12	27:Z2:7:LEU:N	1.59	1.16
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:CE	2.21	1.16
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CE	1.93	1.16
27:Z1:143:VAL:HG22	27:Z1:153:MET:SD	1.85	1.16
27:Z2:27:PHE:CZ	27:Z2:36:VAL:CB	2.05	1.16
1:A4:127:HIS:NE2	4:D3:1006:ASP:C	1.85	1.16
17:Q1:386:PHE:CZ	17:Q1:563:PHE:HA	1.80	1.16
25:X1:742:GLN:HG2	25:X1:743:GLN:CB	1.73	1.16
25:X2:711:LEU:CD2	26:Y2:1309:ASP:OD2	1.93	1.16
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:HH21	1.48	1.16
27:Z1:27:PHE:CZ	27:Z1:36:VAL:CB	2.05	1.16
27:Z2:208:PHE:CZ	27:Z2:279:ALA:HB3	1.79	1.16
1:A3:1330:VAL:CG2	4:D3:876:SER:OG	1.93	1.16
6:F1:139:GLN:NE2	9:I1:1340:LEU:CD1	2.08	1.16
9:I1:913:ALA:O	13:M1:541:LEU:HD13	1.44	1.16
9:I1:917:TYR:CZ	13:M1:534:GLN:O	1.98	1.16
9:I2:891:LEU:HD21	13:M3:590:LYS:CE	1.68	1.16
9:I2:892:HIS:HB2	13:M3:591:ASP:CG	1.48	1.16
9:I2:1106:LYS:CB	15:O3:275:LEU:CD1	2.24	1.16
9:I2:1308:THR:H	14:N3:414:ALA:HA	0.99	1.16
25:X1:711:LEU:CD2	26:Y1:1309:ASP:OD2	1.93	1.16
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:CD1	2.28	1.16
27:Z1:451:SER:C	27:Z1:451:SER:CA	2.12	1.16
1:A2:1269:ALA:O	1:A1:731:ILE:CG1	1.93	1.16
1:A3:1086:LYS:CB	4:D3:1096:TYR:CZ	2.28	1.16
9:I1:908:ARG:CG	15:O1:209:LEU:HD11	1.76	1.16
9:I2:963:LEU:HB2	16:P3:148:ALA:HA	1.18	1.16
9:I2:968:PRO:CG	14:N3:300:ALA:HA	1.73	1.16
9:I2:1103:LEU:HD23	15:O3:275:LEU:HD23	1.26	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:382:ARG:N	17:Q1:512:ILE:HB	1.44	1.16
25:X2:692:LYS:CB	27:Z2:431:TRP:CZ2	2.26	1.16
26:Y1:1291:LEU:HD12	27:Z1:581:PHE:CD1	1.71	1.16
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:HA	1.79	1.16
26:Y2:1409:LEU:CB	27:Z2:711:LYS:HZ3	1.59	1.16
27:Z1:26:ILE:CB	27:Z1:440:MET:HE1	1.69	1.16
27:Z1:679:GLU:N	27:Z1:680:TRP:N	1.92	1.16
27:Z2:211:PHE:N	27:Z2:211:PHE:HA	1.61	1.16
27:Z2:217:LEU:HD22	27:Z2:269:LYS:HD3	1.17	1.16
1:A2:1272:GLY:O	1:A1:723:PHE:CZ	1.97	1.16
4:D1:673:LEU:HG	1:A1:1094:ILE:CD1	1.76	1.16
9:I1:911:PRO:O	13:M1:541:LEU:O	1.64	1.16
9:I1:967:SER:HB3	15:O1:178:ASP:N	1.05	1.16
9:I1:1034:ASP:OD2	16:P1:144:ASP:O	1.61	1.16
9:I2:1027:ALA:O	13:M3:612:PRO:O	1.62	1.16
10:J1:252:LEU:HD21	15:O1:269:ILE:HG22	1.25	1.16
22:U1:299:GLU:CG	27:Z1:652:GLN:O	1.93	1.16
26:Y2:1368:LEU:N	26:Y2:1383:ALA:CB	2.09	1.16
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CD1	1.81	1.15
9:I2:1026:TYR:CE2	13:M3:610:SER:N	1.92	1.15
10:J1:247:ASP:CB	15:O1:276:GLY:CA	2.25	1.15
24:W1:400:LYS:CG	24:W1:720:PHE:CB	2.23	1.15
24:W1:403:ASP:HB2	24:W1:723:PHE:CA	1.75	1.15
26:Y1:1291:LEU:HD11	27:Z1:581:PHE:HD1	0.99	1.15
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:CE2	2.04	1.15
27:Z1:342:TYR:CZ	27:Z1:344:TYR:CE2	2.34	1.15
1:A3:1402:ASP:C	4:D3:824:ARG:CD	2.13	1.15
7:G1:253:SER:OG	13:M2:592:LEU:HD12	1.44	1.15
7:G1:253:SER:OG	13:M2:592:LEU:CD1	1.94	1.15
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD12	1.72	1.15
9:I2:921:GLU:HB2	16:P3:157:GLU:OE2	0.98	1.15
9:I2:1026:TYR:CZ	13:M3:610:SER:N	2.10	1.15
9:I2:1049:LEU:HB2	14:N3:293:LYS:HA	1.16	1.15
9:I2:1108:PRO:C	15:O3:281:ALA:HB2	1.67	1.15
17:Q2:928:LYS:HE2	19:R2:695:ALA:CB	1.77	1.15
18:R1:409:LYS:NZ	18:R1:448:ILE:N	1.92	1.15
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:CB	1.75	1.15
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:CD2	2.25	1.15
26:Y2:1291:LEU:HD12	27:Z2:581:PHE:CD1	1.71	1.15
26:Y2:1316:GLU:CD	27:Z2:609:LEU:HD22	1.66	1.15
27:Z1:201:GLU:O	27:Z1:201:GLU:CG	1.87	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:117:ASP:HA	27:Z2:124:LYS:CE	1.73	1.15
27:Z2:192:LEU:HD11	27:Z2:226:ILE:HD11	1.15	1.15
1:A2:1225:PRO:HB2	1:A1:640:LEU:HD23	1.24	1.15
1:A3:1396:GLY:O	4:D3:869:THR:HG21	1.46	1.15
7:G2:249:ASP:CB	15:O4:251:ILE:HG12	1.77	1.15
9:I1:924:ILE:N	15:O1:187:ASN:ND2	1.91	1.15
9:I2:806:VAL:HG11	15:O3:247:TRP:CB	1.72	1.15
9:I2:843:GLU:N	15:O3:191:ARG:HH22	1.43	1.15
9:I2:1049:LEU:HD23	14:N3:292:ARG:O	1.47	1.15
9:I2:1103:LEU:H	13:M3:611:LYS:CE	1.50	1.15
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:CD2	2.25	1.15
26:Y1:1358:HIS:O	26:Y1:1362:LEU:HG	1.44	1.15
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:O	0.99	1.15
26:Y2:1436:VAL:HG22	27:Z2:228:ASN:OD1	1.43	1.15
27:Z1:544:THR:N	27:Z2:554:HIS:ND1	1.63	1.15
27:Z2:252:GLN:OE1	27:Z2:334:SER:OG	1.65	1.15
27:Z2:282:GLN:O	27:Z2:283:GLY:HA2	1.44	1.15
7:G1:251:TYR:O	15:O2:247:TRP:N	1.80	1.15
9:I1:838:GLU:C	15:O1:198:ARG:HH21	1.40	1.15
9:I1:1051:LYS:NZ	14:N1:290:VAL:HA	1.48	1.15
17:Q1:742:LEU:HA	17:Q1:745:ILE:HD12	1.27	1.15
25:X2:778:LYS:CE	25:X2:795:LYS:HB2	1.76	1.15
25:X2:823:LYS:CB	27:Z1:259:LEU:CD2	2.14	1.15
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HD12	1.82	1.15
27:Z2:125:SER:CB	27:Z2:148:ASP:OD2	1.94	1.15
27:Z2:217:LEU:HD23	27:Z2:269:LYS:CG	1.74	1.15
1:A2:1277:TRP:CG	1:A1:642:ARG:NH2	2.13	1.15
7:G1:251:TYR:CD2	15:O2:244:GLU:HA	1.81	1.15
9:I1:915:ALA:HB1	15:O1:196:SER:CA	1.75	1.15
9:I2:809:HIS:HD2	15:O3:243:LEU:CB	1.43	1.15
9:I2:916:ALA:HB2	15:O3:189:ARG:O	1.47	1.15
9:I2:1095:TYR:HE1	15:O3:267:ALA:CA	1.59	1.15
9:I2:1103:LEU:CA	13:M3:611:LYS:HE3	1.68	1.15
26:Y1:1385:LEU:HD11	27:Z1:683:LEU:HD22	1.22	1.15
27:Z1:129:LYS:HG2	27:Z1:145:LEU:HB3	1.29	1.15
27:Z2:205:ILE:HG22	27:Z2:285:PHE:CD2	1.80	1.15
27:Z2:241:THR:HG21	27:Z2:246:LYS:HG2	1.29	1.15
27:Z2:342:TYR:CZ	27:Z2:344:TYR:CE2	2.35	1.15
27:Z2:416:ASP:HB2	27:Z2:569:LYS:HE2	1.17	1.15
1:A2:1226:LEU:CD2	1:A1:647:GLU:N	2.09	1.14
6:F1:159:ALA:C	9:I1:1335:LYS:CG	2.12	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:838:GLU:CB	15:O1:198:ARG:HH21	1.58	1.14
9:I2:895:ARG:HG2	13:M3:584:GLN:O	1.45	1.14
9:I2:1168:ALA:CB	15:O3:270:THR:CA	2.19	1.14
22:U1:293:GLN:HG2	26:Y1:1371:VAL:HG22	1.15	1.14
25:X1:789:GLU:HG2	27:Z1:680:TRP:CD1	1.80	1.14
25:X2:695:GLN:OE1	27:Z2:48:VAL:CG2	1.95	1.14
25:X2:755:LEU:HD13	26:Y2:1349:LEU:CD2	1.77	1.14
26:Y1:1316:GLU:CD	27:Z1:609:LEU:HD22	1.66	1.14
27:Z1:128:LYS:HE3	27:Z1:147:GLU:CA	1.76	1.14
27:Z1:381:ILE:O	27:Z1:417:ILE:CG1	1.94	1.14
27:Z1:389:TRP:CE3	27:Z1:393:LEU:CD1	2.29	1.14
27:Z2:128:LYS:HE3	27:Z2:147:GLU:CA	1.76	1.14
27:Z2:182:ILE:O	27:Z2:182:ILE:HG23	1.38	1.14
1:A2:1221:ILE:HG12	1:A1:596:ARG:HG2	1.15	1.14
7:G1:251:TYR:HE1	15:O2:248:SER:CB	1.45	1.14
9:I1:897:GLU:CA	13:M1:580:LYS:CG	1.99	1.14
9:I1:1316:ALA:O	15:O1:269:ILE:HD11	1.47	1.14
9:I2:916:ALA:O	16:P3:158:THR:O	1.64	1.14
9:I2:919:ALA:N	16:P3:157:GLU:HB3	1.61	1.14
9:I2:1103:LEU:C	13:M3:611:LYS:NZ	1.94	1.14
10:J1:248:VAL:CG2	15:O1:273:ASP:HB2	1.77	1.14
22:U1:212:LYS:HZ1	25:X1:768:GLU:CG	1.60	1.14
25:X1:665:TRP:HE1	26:Y1:1267:GLU:HB3	1.11	1.14
25:X1:795:LYS:CE	27:Z1:666:GLU:CA	2.25	1.14
25:X1:815:GLU:HG2	26:Y1:1402:LEU:CG	1.78	1.14
25:X2:765:LEU:HD21	27:Z2:652:GLN:CD	1.61	1.14
25:X2:788:ASP:N	25:X2:788:ASP:HA	1.56	1.14
26:Y1:1382:VAL:C	26:Y1:1384:LYS:CG	2.15	1.14
26:Y2:1385:LEU:HD11	27:Z2:683:LEU:HD22	1.22	1.14
27:Z1:541:LYS:HE2	27:Z2:553:ILE:HG13	1.30	1.14
27:Z2:137:TYR:CG	27:Z2:215:VAL:CG1	2.12	1.14
27:Z2:143:VAL:HG22	27:Z2:153:MET:SD	1.86	1.14
27:Z2:630:TRP:NE1	27:Z2:634:ILE:HD11	1.60	1.14
1:A2:1224:PRO:HG2	1:A1:648:TYR:CE1	1.83	1.14
6:F1:159:ALA:O	9:I1:1335:LYS:HG3	0.98	1.14
7:G2:253:SER:N	15:O4:248:SER:O	1.77	1.14
9:I1:966:TRP:CA	15:O1:181:HIS:HB2	1.70	1.14
9:I2:809:HIS:CD2	15:O3:243:LEU:CA	2.27	1.14
9:I2:907:VAL:O	13:M3:576:LYS:CG	1.95	1.14
9:I2:982:GLN:CG	15:O3:179:LEU:HD11	1.58	1.14
9:I2:1106:LYS:HE2	14:N3:430:ARG:NH1	1.62	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1305:LEU:CD2	15:O3:260:LEU:CD1	2.24	1.14
9:I2:1305:LEU:CD2	15:O3:260:LEU:HD12	1.78	1.14
10:J1:247:ASP:CB	15:O1:276:GLY:C	2.15	1.14
25:X1:799:SER:C	26:Y1:1372:LYS:CA	2.16	1.14
26:Y1:1454:LYS:HE3	27:Z1:349:VAL:HG22	1.27	1.14
27:Z1:343:VAL:CB	27:Z1:346:ASN:ND2	2.11	1.14
27:Z1:531:ILE:HD11	27:Z2:541:LYS:CD	1.76	1.14
27:Z1:541:LYS:HB3	27:Z2:550:HIS:O	1.34	1.14
27:Z2:41:ASN:HD22	27:Z2:60:SER:CA	1.56	1.14
27:Z2:389:TRP:CE3	27:Z2:393:LEU:CD1	2.29	1.14
27:Z2:642:ASN:CA	27:Z2:643:SER:N	2.08	1.14
1:A2:1224:PRO:CA	1:A1:594:LEU:O	1.91	1.14
1:A3:1082:LEU:O	4:D3:1096:TYR:CE2	2.00	1.14
4:D1:673:LEU:CD1	1:A1:1094:ILE:CG1	2.25	1.14
6:F1:142:ALA:CB	9:I1:1395:LEU:H	1.46	1.14
17:Q1:922:LEU:HD21	18:R1:688:LEU:CD2	1.76	1.14
22:U1:243:PHE:CD2	27:Z1:660:SER:OG	1.95	1.14
25:X1:755:LEU:HD13	26:Y1:1349:LEU:CD2	1.78	1.14
25:X2:690:GLN:CA	27:Z2:7:LEU:CD2	2.24	1.14
25:X2:695:GLN:HG3	27:Z2:431:TRP:CG	1.82	1.14
25:X2:811:SER:OG	27:Z2:701:LEU:HD11	1.42	1.14
27:Z1:135:LYS:HZ3	27:Z1:218:LEU:CD2	1.45	1.14
27:Z1:227:LEU:HD22	27:Z1:256:VAL:HG12	1.20	1.14
27:Z1:401:ASP:O	27:Z2:262:ASN:HA	1.44	1.14
27:Z1:581:PHE:N	27:Z1:581:PHE:C	2.01	1.14
27:Z2:69:PHE:CD1	27:Z2:84:ASN:CG	2.21	1.14
27:Z2:252:GLN:CB	27:Z2:335:MET:HG2	1.77	1.14
27:Z2:294:LEU:CD2	27:Z2:353:ARG:NH2	2.10	1.14
27:Z2:611:GLN:C	27:Z2:611:GLN:HA	1.66	1.14
1:A2:1237:LEU:CD1	1:A1:588:SER:HB3	1.77	1.14
1:A3:1070:ASP:OD2	9:I2:1238:LYS:HB2	1.38	1.14
1:A3:1201:ARG:NH2	1:A4:646:ILE:HG22	1.61	1.14
7:G2:252:LEU:H	15:O4:251:ILE:HG22	1.05	1.14
9:I1:1051:LYS:CD	14:N1:289:PHE:HE2	1.36	1.14
9:I2:896:PRO:HG3	13:M3:588:MET:CE	1.76	1.14
9:I2:899:LEU:CD2	13:M3:583:ASP:N	2.10	1.14
9:I2:1026:TYR:OH	13:M3:609:GLY:N	1.81	1.14
10:J1:247:ASP:OD2	15:O1:276:GLY:HA3	0.98	1.14
17:Q2:742:LEU:HA	17:Q2:745:ILE:HD12	1.26	1.14
25:X2:680:TYR:CE2	27:Z2:419:THR:O	1.99	1.14
26:Y1:1291:LEU:HD11	27:Z1:581:PHE:CD1	1.71	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:HE2	1.17	1.14
26:Y2:1212:ARG:CZ	26:Y2:1213:LEU:HD23	1.75	1.14
27:Z1:41:ASN:HD22	27:Z1:60:SER:CA	1.56	1.14
27:Z1:125:SER:CB	27:Z1:148:ASP:OD2	1.94	1.14
27:Z1:210:PRO:O	27:Z1:212:LEU:HG	1.47	1.14
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CB	2.30	1.14
27:Z1:428:TYR:CE1	27:Z1:435:SER:OG	2.01	1.14
27:Z1:544:THR:CG2	27:Z2:558:PHE:H	1.60	1.14
27:Z2:15:ALA:C	27:Z2:16:SER:CA	2.17	1.14
27:Z2:288:ASN:O	27:Z2:289:PRO:C	1.80	1.14
27:Z2:380:ILE:HG22	27:Z2:380:ILE:O	1.37	1.14
1:A3:937:ASP:OD1	9:I2:815:ILE:CG2	1.96	1.13
1:A4:132:ASP:OD1	4:D3:1002:ALA:HB3	1.43	1.13
6:F1:135:VAL:CG1	9:I1:1336:MET:HG2	1.54	1.13
9:I1:908:ARG:NH2	13:M1:555:GLN:HB2	1.63	1.13
9:I1:1038:ILE:HD11	15:O1:179:LEU:HD12	1.20	1.13
9:I1:1606:GLU:OE2	9:I2:1669:ARG:NE	1.81	1.13
9:I2:1095:TYR:CD1	15:O3:268:GLY:N	2.17	1.13
9:I2:1102:GLN:N	15:O3:272:SER:CB	1.94	1.13
17:Q2:824:ASN:HA	17:Q2:827:THR:HB	1.30	1.13
22:U1:209:PRO:CG	27:Z1:659:LYS:CA	2.09	1.13
22:U1:289:GLN:HG3	25:X1:794:ILE:C	1.67	1.13
22:U1:296:LEU:CD1	27:Z1:653:GLN:O	1.95	1.13
25:X1:765:LEU:HD21	27:Z1:652:GLN:OE1	1.34	1.13
25:X2:778:LYS:O	25:X2:790:ASN:OD1	1.63	1.13
26:Y2:1321:MET:CA	27:Z1:51:ASP:H	1.61	1.13
26:Y2:1449:ILE:CG2	26:Y2:1453:PHE:CE2	2.31	1.13
27:Z1:540:VAL:C	27:Z2:555:GLU:HG3	1.51	1.13
27:Z2:581:PHE:N	27:Z2:581:PHE:C	2.01	1.13
1:A2:1200:ARG:HB3	1:A1:595:GLU:CB	1.77	1.13
9:I2:925:LEU:CG	15:O3:186:PHE:HB2	1.78	1.13
9:I2:1099:ARG:C	15:O3:272:SER:CB	2.16	1.13
17:Q2:945:ARG:HA	17:Q2:948:GLN:HE21	1.10	1.13
22:U1:296:LEU:HA	27:Z1:657:TYR:HB2	1.20	1.13
26:Y1:1450:GLY:N	27:Z1:330:ASP:OD2	1.81	1.13
26:Y2:1338:GLN:O	27:Z2:630:TRP:CH2	1.71	1.13
26:Y2:1367:LYS:N	26:Y2:1383:ALA:HB1	1.62	1.13
27:Z1:16:SER:CA	27:Z1:16:SER:N	2.11	1.13
27:Z1:179:VAL:CG2	27:Z1:206:PHE:CD2	2.31	1.13
27:Z1:252:GLN:CB	27:Z1:335:MET:HG2	1.77	1.13
27:Z1:294:LEU:CD2	27:Z1:353:ARG:NH2	2.10	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:179:VAL:CG2	27:Z2:206:PHE:CD2	2.31	1.13
27:Z2:393:LEU:HD21	27:Z2:405:LEU:HD22	1.30	1.13
9:I2:915:ALA:N	15:O3:193:ALA:C	1.89	1.13
9:I2:1103:LEU:HA	15:O3:275:LEU:HD23	1.28	1.13
20:S1:571:ALA:HB3	21:T1:86:ASN:ND2	1.62	1.13
22:U1:294:VAL:O	27:Z1:658:LEU:HD23	0.97	1.13
22:U1:299:GLU:HG3	27:Z1:652:GLN:O	0.97	1.13
25:X1:776:PHE:HE1	25:X1:795:LYS:HD3	0.99	1.13
26:Y2:1450:GLY:N	27:Z2:330:ASP:OD2	1.81	1.13
27:Z1:149:ASP:OD1	27:Z1:182:ILE:HG21	1.47	1.13
27:Z1:395:LYS:HE3	27:Z2:266:ARG:HG3	1.25	1.13
27:Z2:149:ASP:OD1	27:Z2:182:ILE:HG21	1.48	1.13
27:Z2:669:THR:HG21	27:Z2:680:TRP:CH2	1.83	1.13
9:I1:908:ARG:CG	15:O1:209:LEU:CD1	2.26	1.13
9:I2:976:ARG:NE	15:O3:174:LEU:HD11	1.62	1.13
9:I2:1109:LEU:HB3	15:O3:284:LYS:HZ2	0.98	1.13
17:Q1:929:LEU:HD23	18:R1:714:TYR:CE1	1.82	1.13
18:R1:402:GLY:CA	18:R1:444:ALA:CB	2.27	1.13
25:X1:811:SER:O	26:Y1:1402:LEU:CD1	1.97	1.13
25:X2:695:GLN:CD	27:Z2:48:VAL:HG21	1.68	1.13
25:X2:811:SER:O	26:Y2:1402:LEU:CD1	1.97	1.13
26:Y1:1212:ARG:CA	26:Y1:1212:ARG:N	2.11	1.13
26:Y1:1370:THR:HG22	27:Z1:662:LEU:HD21	1.24	1.13
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:CD2	2.27	1.13
26:Y2:1412:GLU:CD	27:Z1:258:LYS:HE3	1.67	1.13
26:Y2:1454:LYS:HE3	27:Z2:349:VAL:HG22	1.26	1.13
27:Z1:12:ILE:HD13	27:Z1:54:TYR:HB2	1.22	1.13
27:Z1:264:ASN:ND2	27:Z1:267:PHE:CD2	2.16	1.13
27:Z2:55:HIS:HE1	27:Z2:98:SER:OG	1.29	1.13
27:Z2:129:LYS:HG2	27:Z2:145:LEU:HB3	1.29	1.13
27:Z2:216:LEU:CD2	27:Z2:272:ILE:HD12	1.68	1.13
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CB	2.31	1.13
4:D1:1006:ASP:HB2	1:A1:172:PRO:HB3	1.25	1.12
6:F1:267:GLU:HB2	11:K1:637:SER:OG	1.46	1.12
9:I1:904:GLU:CG	13:M1:573:ARG:O	1.84	1.12
9:I1:912:VAL:CA	13:M1:542:ASP:OD1	1.97	1.12
9:I1:963:LEU:CD1	16:P1:152:LYS:HD3	1.79	1.13
9:I1:1543:LEU:HD23	10:J2:300:ILE:HG21	1.18	1.12
9:I2:964:SER:N	16:P3:152:LYS:CB	2.12	1.12
9:I2:1049:LEU:HD11	14:N3:296:GLY:CA	1.56	1.12
17:Q2:197:GLU:HG2	17:Q2:199:PRO:HD3	1.30	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:436:LEU:HA	18:R1:449:LEU:O	1.42	1.12
22:U1:294:VAL:HG13	27:Z1:661:GLU:OE1	1.34	1.13
22:U1:340:LYS:CD	27:Z1:646:HIS:NE2	2.12	1.12
24:W1:400:LYS:CD	24:W1:720:PHE:CB	2.27	1.12
24:W1:523:ASP:OD2	24:W1:738:ARG:N	1.81	1.12
24:W1:526:ARG:HB2	24:W1:740:PHE:CB	1.79	1.13
25:X2:695:GLN:HB2	27:Z2:431:TRP:CZ3	1.83	1.13
25:X1:755:LEU:HD11	26:Y1:1349:LEU:HD11	1.20	1.12
25:X2:665:TRP:HE1	26:Y2:1267:GLU:HB2	0.97	1.12
25:X2:778:LYS:HG3	25:X2:794:ILE:CA	1.77	1.12
25:X2:822:LYS:O	27:Z1:262:ASN:ND2	1.82	1.12
26:Y1:1449:ILE:CG2	26:Y1:1453:PHE:CE2	2.31	1.12
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:HD12	1.08	1.12
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:CD2	2.27	1.12
27:Z1:136:SER:O	27:Z1:217:LEU:CD1	1.98	1.12
27:Z1:137:TYR:HD2	27:Z1:215:VAL:O	1.23	1.12
27:Z1:541:LYS:HB3	27:Z2:554:HIS:N	1.64	1.12
27:Z2:328:PHE:CE2	27:Z2:349:VAL:CB	2.32	1.12
1:A2:1222:ALA:HA	1:A1:600:LYS:N	1.63	1.12
1:A3:1332:ARG:NE	4:D3:903:ILE:HG13	1.07	1.12
1:A3:1396:GLY:O	4:D3:869:THR:CG2	1.96	1.12
6:F1:141:ALA:HB1	9:I1:1390:PHE:CD2	1.79	1.12
7:G1:252:LEU:HD23	15:O2:244:GLU:N	1.62	1.12
9:I1:924:ILE:N	15:O1:187:ASN:HD21	1.45	1.12
9:I1:1051:LYS:CG	14:N1:289:PHE:CZ	2.23	1.12
9:I1:1357:LYS:HZ2	15:O1:263:GLN:CG	1.52	1.12
9:I2:895:ARG:N	13:M3:587:GLU:CG	2.06	1.12
9:I2:1103:LEU:HD23	15:O3:275:LEU:CD2	1.79	1.12
10:J1:248:VAL:HG23	15:O1:273:ASP:OD2	1.47	1.12
26:Y2:1333:ASP:CA	27:Z1:92:GLU:HB2	1.79	1.12
26:Y2:1334:LEU:C	27:Z1:108:ALA:CB	2.08	1.12
27:Z1:69:PHE:CD1	27:Z1:84:ASN:CG	2.21	1.12
27:Z1:125:SER:C	27:Z1:147:GLU:OE1	1.87	1.12
27:Z1:252:GLN:OE1	27:Z1:334:SER:OG	1.65	1.12
27:Z2:117:ASP:HB3	27:Z2:124:LYS:HZ3	1.07	1.12
27:Z2:125:SER:C	27:Z2:147:GLU:OE1	1.87	1.12
27:Z2:131:LEU:CD1	27:Z2:187:PHE:CE2	2.32	1.12
27:Z2:136:SER:O	27:Z2:217:LEU:HD11	1.48	1.12
27:Z2:201:GLU:O	27:Z2:201:GLU:CG	1.87	1.12
27:Z2:343:VAL:CB	27:Z2:346:ASN:ND2	2.11	1.12
1:A3:937:ASP:OD1	9:I2:815:ILE:HG23	1.50	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:247:ASP:N	13:M2:594:LYS:HD3	1.56	1.12
13:M3:469:GLU:OE1	13:M4:536:GLU:OE1	1.66	1.12
25:X1:811:SER:OG	27:Z1:701:LEU:HD11	1.42	1.12
25:X2:690:GLN:O	27:Z2:7:LEU:HD23	0.97	1.12
26:Y1:1430:ASP:CA	26:Y1:1434:PHE:CZ	2.32	1.12
27:Z1:124:LYS:HD2	27:Z1:147:GLU:OE1	1.35	1.12
27:Z1:401:ASP:C	27:Z2:262:ASN:HA	1.42	1.12
27:Z2:149:ASP:OD1	27:Z2:182:ILE:CG2	1.97	1.12
27:Z2:165:VAL:CB	27:Z2:168:LYS:HE2	1.79	1.12
1:A3:1088:ASN:OD1	4:D3:1095:ARG:NH2	1.82	1.12
7:G1:252:LEU:HD23	15:O2:244:GLU:CA	1.77	1.12
7:G1:255:LEU:HA	15:O2:246:LEU:N	1.40	1.12
9:I2:809:HIS:HE2	15:O3:243:LEU:HG	1.04	1.12
9:I2:976:ARG:NH2	14:N3:293:LYS:HD2	1.59	1.12
9:I2:977:ASN:N	15:O3:174:LEU:HD22	1.27	1.12
9:I2:1048:GLU:CD	14:N3:293:LYS:HB2	1.70	1.12
17:Q1:1078:LEU:HD21	17:Q1:1155:VAL:HG13	1.27	1.12
17:Q2:139:ILE:HG22	17:Q2:165:ILE:HB	1.30	1.12
17:Q2:345:GLN:HG3	17:Q2:346:LEU:HD22	1.22	1.12
20:S1:568:ALA:CA	21:T1:86:ASN:ND2	1.98	1.12
26:Y2:1334:LEU:CB	27:Z1:108:ALA:N	2.11	1.12
27:Z1:328:PHE:CE2	27:Z1:349:VAL:CB	2.32	1.12
27:Z1:451:SER:O	27:Z1:452:SER:HB2	1.47	1.12
27:Z1:541:LYS:CB	27:Z2:554:HIS:N	2.13	1.12
27:Z2:136:SER:O	27:Z2:217:LEU:CD1	1.97	1.12
1:A2:1328:ARG:CD	4:D1:976:ARG:NE	1.70	1.12
6:F2:142:ALA:CA	9:I2:1395:LEU:HD21	1.78	1.12
9:I1:896:PRO:CB	13:M1:583:ASP:CB	2.07	1.12
9:I1:911:PRO:HG3	15:O1:202:LEU:HB2	1.21	1.12
9:I1:965:ALA:CB	15:O1:185:ALA:H	1.60	1.12
9:I2:1026:TYR:HD1	13:M3:612:PRO:HG3	1.00	1.12
9:I2:1051:LYS:CB	14:N3:292:ARG:HD3	1.78	1.12
9:I2:1253:GLY:N	14:N3:409:ALA:H	1.40	1.12
9:I2:1305:LEU:HD22	15:O3:264:ILE:HG13	1.31	1.12
10:J1:248:VAL:CG2	15:O1:273:ASP:CB	2.28	1.12
17:Q1:443:TRP:CD1	17:Q1:504:PHE:CD1	2.37	1.12
20:S1:571:ALA:HB3	21:T1:86:ASN:HD22	1.08	1.12
22:U1:204:VAL:C	27:Z1:668:GLU:CD	2.06	1.12
22:U1:209:PRO:CG	27:Z1:659:LYS:HA	1.58	1.12
25:X1:638:ASP:OD1	25:X1:638:ASP:C	1.85	1.12
25:X1:765:LEU:HD21	27:Z1:652:GLN:CD	1.61	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:818:ILE:HD13	26:Y1:1405:GLN:HG3	1.27	1.12
25:X2:692:LYS:HG2	27:Z2:431:TRP:CH2	1.82	1.12
26:Y1:1443:MET:HE2	27:Z1:332:GLU:OE1	1.40	1.12
26:Y2:1430:ASP:CA	26:Y2:1434:PHE:CZ	2.32	1.12
27:Z1:287:ILE:HD13	27:Z1:348:LEU:HD12	1.12	1.12
27:Z1:328:PHE:CE2	27:Z1:349:VAL:CG1	2.33	1.12
27:Z1:544:THR:CG2	27:Z2:558:PHE:HB2	1.80	1.12
9:I1:961:ARG:NH1	15:O1:190:ARG:N	1.98	1.11
9:I1:1049:LEU:HD11	14:N1:297:ALA:HA	1.20	1.11
9:I2:895:ARG:HH21	13:M3:589:GLY:N	1.46	1.11
9:I2:919:ALA:HB3	16:P3:157:GLU:CD	1.68	1.11
9:I2:1168:ALA:CB	15:O3:270:THR:HA	1.79	1.11
9:I2:1255:HIS:NE2	14:N3:407:ALA:HB3	0.79	1.11
17:Q1:448:SER:HB2	17:Q1:546:ILE:HG22	1.25	1.11
25:X1:789:GLU:CG	27:Z1:680:TRP:CD1	2.31	1.11
26:Y1:1383:ALA:O	26:Y2:1361:GLU:HA	0.94	1.11
26:Y1:1383:ALA:CA	26:Y2:1361:GLU:CA	2.21	1.11
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CB	1.63	1.11
26:Y2:1410:GLN:CB	27:Z2:711:LYS:HE3	1.80	1.11
27:Z1:126:SER:O	27:Z1:147:GLU:OE2	1.68	1.11
27:Z1:131:LEU:CD1	27:Z1:187:PHE:CE2	2.32	1.11
27:Z1:165:VAL:CB	27:Z1:168:LYS:HE2	1.80	1.11
27:Z1:192:LEU:HD11	27:Z1:226:ILE:HD11	1.16	1.11
27:Z2:120:GLU:C	27:Z2:120:GLU:H	1.47	1.11
27:Z2:165:VAL:HB	27:Z2:168:LYS:CE	1.79	1.11
27:Z2:328:PHE:CE2	27:Z2:349:VAL:CG1	2.33	1.11
1:A2:1203:TYR:CB	1:A1:595:GLU:OE2	1.98	1.11
6:F1:1808:VAL:N	14:N2:412:ASN:HA	1.50	1.11
9:I2:843:GLU:CD	15:O3:191:ARG:CD	2.18	1.11
9:I2:1050:SER:N	16:P3:142:LEU:H	1.48	1.11
9:I2:1103:LEU:HD13	13:M3:614:ASP:HB3	1.28	1.11
17:Q1:385:THR:CG2	17:Q1:507:ILE:HG23	1.79	1.11
25:X2:690:GLN:NE2	27:Z2:581:PHE:CZ	2.07	1.11
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:HD21	1.13	1.11
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:HE2	1.17	1.11
26:Y2:1368:LEU:H	26:Y2:1383:ALA:CB	1.60	1.11
27:Z1:358:ARG:NH2	27:Z1:382:GLN:OE1	1.83	1.11
6:F1:138:ILE:CA	9:I1:1392:VAL:HG23	1.81	1.11
6:F1:154:SER:HB3	9:I1:1344:GLN:NE2	1.62	1.11
9:I2:1048:GLU:OE2	14:N3:293:LYS:HB3	1.49	1.11
25:X2:751:LEU:HD13	27:Z2:638:ILE:HG12	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1277:LYS:HE2	27:Z1:570:ILE:HB	1.23	1.11
26:Y1:1383:ALA:N	26:Y2:1364:ASN:HB2	1.47	1.11
27:Z1:149:ASP:OD1	27:Z1:182:ILE:CG2	1.97	1.11
27:Z2:23:PRO:CA	27:Z2:24:ARG:N	2.14	1.11
27:Z2:227:LEU:HD22	27:Z2:256:VAL:HG12	1.21	1.11
27:Z2:342:TYR:CZ	27:Z2:344:TYR:CD2	2.38	1.11
6:F1:138:ILE:HB	9:I1:1392:VAL:HG22	1.31	1.11
6:F1:161:ALA:N	9:I1:1335:LYS:CA	2.12	1.11
7:G1:247:ASP:N	13:M2:594:LYS:HD2	1.61	1.11
9:I1:918:SER:HA	15:O1:193:ALA:N	1.59	1.11
9:I2:916:ALA:HB3	15:O3:189:ARG:C	1.60	1.11
9:I2:1162:TYR:CA	15:O3:266:GLN:HE21	1.64	1.11
17:Q1:532:LYS:HD3	17:Q1:581:PRO:HG3	1.26	1.11
24:W1:530:LYS:HB3	24:W1:743:ASN:O	1.41	1.11
25:X1:679:LEU:CD1	26:Y1:1278:CYS:SG	2.39	1.11
25:X1:814:LEU:HD11	27:Z1:705:SER:OG	1.50	1.11
25:X2:694:ASP:OD1	27:Z2:584:GLN:NE2	1.84	1.11
27:Z1:136:SER:O	27:Z1:217:LEU:HD11	1.48	1.11
27:Z1:165:VAL:HB	27:Z1:168:LYS:CE	1.80	1.11
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CD1	2.26	1.11
27:Z2:94:PRO:HB3	27:Z2:109:PHE:HZ	1.01	1.11
27:Z2:126:SER:O	27:Z2:147:GLU:OE2	1.68	1.11
1:A3:1329:GLU:O	4:D3:879:ASP:HB3	1.48	1.11
6:F1:163:ASP:H	9:I1:1331:LYS:HB2	1.06	1.11
6:F1:1807:GLU:N	14:N2:412:ASN:OD1	1.84	1.11
9:I1:978:LYS:HB2	15:O1:180:ASP:HB3	1.17	1.11
9:I1:1038:ILE:HG12	15:O1:179:LEU:HD11	1.24	1.11
9:I2:917:TYR:N	15:O3:190:ARG:HA	1.63	1.11
9:I2:1098:LEU:CB	15:O3:269:ILE:CA	2.09	1.11
22:U1:296:LEU:HD21	27:Z1:652:GLN:O	1.51	1.11
25:X1:797:LEU:CD2	27:Z1:687:LEU:CD2	2.22	1.11
25:X1:807:LEU:HD21	27:Z1:698:ASN:HA	1.11	1.11
25:X2:814:LEU:HD11	27:Z2:705:SER:OG	1.50	1.11
25:X2:815:GLU:HG2	26:Y2:1402:LEU:CG	1.78	1.11
26:Y1:1410:GLN:N	27:Z1:711:LYS:CE	2.14	1.11
26:Y2:1277:LYS:HE2	27:Z2:570:ILE:HB	1.23	1.11
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:HG3	1.81	1.11
26:Y2:1369:PHE:CE2	26:Y2:1382:VAL:HG13	1.85	1.11
27:Z1:380:ILE:HG22	27:Z1:380:ILE:O	1.36	1.11
27:Z2:428:TYR:CE1	27:Z2:435:SER:OG	2.02	1.11
6:F1:272:GLU:OE1	9:I1:1210:ILE:HA	1.45	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:252:LEU:HD21	15:O2:244:GLU:HG2	1.24	1.10
7:G2:252:LEU:O	15:O4:248:SER:O	1.68	1.10
9:I1:910:LYS:NZ	13:M1:546:ARG:N	1.91	1.10
9:I1:915:ALA:HB1	15:O1:196:SER:HA	1.30	1.10
17:Q2:874:PHE:CD1	19:R2:726:ASN:OD1	2.03	1.10
18:R1:707:SER:HA	18:R1:711:LEU:HD13	1.29	1.10
22:U1:192:ILE:HA	27:Z1:664:ARG:HG3	1.25	1.10
25:X1:751:LEU:CD1	27:Z1:638:ILE:HD11	1.78	1.10
25:X1:795:LYS:HE2	27:Z1:666:GLU:N	1.63	1.10
25:X2:694:ASP:CB	27:Z2:431:TRP:O	1.98	1.10
27:Z1:359:GLU:CD	27:Z1:361:LYS:HE2	1.70	1.10
27:Z1:403:ASN:H	27:Z2:262:ASN:ND2	1.49	1.10
27:Z2:149:ASP:OD2	27:Z2:182:ILE:HB	1.50	1.10
27:Z2:210:PRO:O	27:Z2:212:LEU:HG	1.47	1.10
27:Z2:358:ARG:NH2	27:Z2:382:GLN:OE1	1.83	1.10
27:Z2:647:SER:O	27:Z2:651:LEU:HG	1.50	1.10
4:D1:673:LEU:HD12	1:A1:1094:ILE:CD1	1.81	1.10
9:I1:909:ARG:CA	13:M1:548:LEU:HD21	1.81	1.10
9:I1:1038:ILE:HD11	15:O1:179:LEU:CD1	1.74	1.10
9:I2:810:GLU:HA	15:O3:241:SER:O	1.50	1.10
9:I2:925:LEU:CG	15:O3:186:PHE:CB	2.28	1.10
22:U1:300:HIS:HE1	27:Z1:649:LYS:HB3	1.12	1.10
25:X1:644:TRP:O	25:X1:648:LEU:HG	1.50	1.10
25:X1:694:ASP:OD1	27:Z1:584:GLN:NE2	1.84	1.10
25:X1:815:GLU:HG3	26:Y1:1402:LEU:HD21	1.34	1.10
25:X2:680:TYR:O	27:Z2:446:THR:HG21	1.49	1.10
25:X2:755:LEU:HD11	26:Y2:1349:LEU:HD11	1.21	1.10
25:X2:778:LYS:CE	25:X2:791:ILE:HG22	1.80	1.10
25:X2:823:LYS:HZ1	27:Z1:215:VAL:HA	1.04	1.10
26:Y1:1410:GLN:CB	27:Z1:711:LYS:HE3	1.80	1.10
27:Z1:342:TYR:CZ	27:Z1:344:TYR:CD2	2.38	1.10
27:Z1:582:GLU:OE2	27:Z1:586:LYS:HE3	1.43	1.10
27:Z1:682:GLU:OE2	27:Z2:650:SER:OG	1.69	1.10
27:Z2:184:ASP:OD1	27:Z2:197:LEU:CB	1.99	1.10
1:A2:1275:PRO:CD	1:A1:726:ALA:HB1	1.77	1.10
1:A3:1088:ASN:O	4:D3:1101:HIS:HE1	0.78	1.10
1:A3:1222:ALA:HB2	1:A4:598:VAL:H	1.08	1.10
6:F1:158:PRO:CG	9:I1:1340:LEU:N	2.13	1.10
9:I2:899:LEU:HD22	13:M3:583:ASP:H	1.13	1.10
9:I2:899:LEU:HD22	13:M3:583:ASP:N	1.58	1.10
9:I2:904:GLU:OE2	15:O3:235:ASN:ND2	1.83	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:919:ALA:CB	16:P3:157:GLU:CB	2.27	1.10
9:I2:964:SER:N	16:P3:152:LYS:HB2	1.67	1.10
9:I2:978:LYS:HE3	15:O3:178:ASP:C	1.54	1.10
9:I2:982:GLN:HB3	15:O3:179:LEU:HD11	1.25	1.10
17:Q1:929:LEU:HD22	18:R1:691:THR:HB	1.32	1.10
17:Q2:929:LEU:CB	19:R2:714:TYR:OH	1.99	1.10
24:W1:534:ASP:HB2	24:W1:746:CYS:O	1.50	1.10
27:Z1:149:ASP:OD2	27:Z1:182:ILE:HB	1.50	1.10
27:Z1:216:LEU:HG	27:Z1:272:ILE:CD1	1.66	1.10
27:Z1:282:GLN:C	27:Z1:283:GLY:CA	2.18	1.10
27:Z1:544:THR:HG23	27:Z2:558:PHE:HB2	1.25	1.10
27:Z2:230:SER:HB3	27:Z2:253:LEU:HD23	1.12	1.10
27:Z2:282:GLN:C	27:Z2:283:GLY:CA	2.18	1.10
9:I1:977:ASN:HA	15:O1:177:HIS:N	0.92	1.10
9:I2:806:VAL:CG1	15:O3:247:TRP:HB3	1.75	1.10
9:I2:1103:LEU:HD22	13:M3:614:ASP:OD1	1.51	1.10
17:Q1:382:ARG:HE	17:Q1:510:ASN:CA	1.25	1.10
17:Q2:553:LEU:HD22	17:Q2:632:LYS:HB3	1.28	1.10
18:R1:402:GLY:HA2	18:R1:444:ALA:CB	1.82	1.10
25:X2:644:TRP:O	25:X2:648:LEU:HG	1.50	1.10
25:X2:679:LEU:CD1	26:Y2:1278:CYS:SG	2.39	1.10
25:X2:699:TYR:HA	27:Z2:49:LEU:HD11	1.21	1.10
25:X2:726:VAL:C	25:X2:726:VAL:CB	2.20	1.10
25:X2:751:LEU:CD1	27:Z2:638:ILE:HD11	1.77	1.10
25:X2:778:LYS:NZ	25:X2:795:LYS:HB2	1.65	1.10
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CE	2.25	1.10
27:Z1:170:ASN:ND2	27:Z1:177:ALA:HB3	1.65	1.10
27:Z1:211:PHE:N	27:Z1:211:PHE:HA	1.61	1.10
27:Z1:343:VAL:HB	27:Z1:346:ASN:HD22	1.01	1.10
27:Z2:359:GLU:CD	27:Z2:361:LYS:HE2	1.70	1.10
27:Z2:428:TYR:OH	27:Z2:435:SER:CB	1.99	1.10
27:Z2:429:ILE:HB	27:Z2:436:ASN:OD1	1.51	1.10
27:Z2:669:THR:CA	27:Z2:669:THR:N	2.15	1.10
1:A2:1277:TRP:CB	1:A1:642:ARG:NH2	2.15	1.10
4:D1:673:LEU:CG	1:A1:1094:ILE:CD1	2.30	1.10
6:F1:153:LEU:CG	9:I1:1395:LEU:HD21	1.82	1.10
9:I1:908:ARG:CD	13:M1:552:TYR:CA	2.30	1.10
9:I1:1051:LYS:CG	14:N1:289:PHE:HE2	1.47	1.10
9:I2:906:GLY:HA2	13:M3:573:ARG:HD2	1.11	1.10
9:I2:1102:GLN:HB3	15:O3:271:GLU:O	1.41	1.10
17:Q1:654:VAL:HG12	17:Q1:666:LYS:HE2	1.34	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:532:LYS:HD3	17:Q2:581:PRO:HG3	1.26	1.10
22:U1:296:LEU:HG	27:Z1:653:GLN:C	1.70	1.10
25:X1:765:LEU:HD22	27:Z1:652:GLN:OE1	1.47	1.10
25:X1:793:LEU:CD2	27:Z1:680:TRP:CD1	2.25	1.10
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:HD21	1.13	1.10
27:Z1:26:ILE:CG2	27:Z1:440:MET:HE2	1.71	1.10
27:Z1:26:ILE:HG21	27:Z1:440:MET:SD	1.90	1.10
27:Z1:538:ARG:HA	27:Z2:551:ASN:H	1.05	1.10
27:Z2:7:LEU:HD13	27:Z2:581:PHE:CE1	1.86	1.10
27:Z2:13:PHE:CD1	27:Z2:445:LEU:CD2	2.34	1.10
27:Z2:170:ASN:ND2	27:Z2:177:ALA:HB3	1.65	1.10
27:Z2:216:LEU:HG	27:Z2:272:ILE:CD1	1.66	1.10
27:Z2:234:TYR:CB	27:Z2:253:LEU:HD11	1.82	1.10
27:Z2:294:LEU:HD21	27:Z2:353:ARG:HH21	0.97	1.10
1:A4:127:HIS:H	4:D3:1010:ALA:HB1	1.07	1.09
6:F1:133:GLN:O	9:I1:1389:GLN:HG2	1.48	1.09
9:I1:896:PRO:HA	13:M1:583:ASP:HB3	1.27	1.09
9:I2:981:VAL:HG21	15:O3:171:ASP:O	1.51	1.09
9:I2:1165:SER:HB3	15:O3:269:ILE:HD12	1.33	1.09
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB2	1.83	1.09
17:Q1:345:GLN:HG3	17:Q1:346:LEU:HD22	1.22	1.09
17:Q1:929:LEU:HD11	18:R1:695:ALA:HB2	1.34	1.09
17:Q1:929:LEU:HB3	18:R1:714:TYR:OH	1.50	1.09
17:Q2:509:ALA:HA	17:Q2:516:LEU:HD11	1.19	1.09
17:Q2:552:THR:HA	17:Q2:556:HIS:HB2	1.34	1.09
25:X1:795:LYS:NZ	27:Z1:666:GLU:CA	2.13	1.09
25:X1:815:GLU:CA	26:Y1:1402:LEU:CD2	2.29	1.09
25:X2:745:TYR:CD2	27:Z1:104:SER:HB2	1.86	1.09
25:X2:778:LYS:HG3	25:X2:795:LYS:H	1.14	1.09
25:X2:807:LEU:HD21	27:Z2:698:ASN:CA	1.82	1.09
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD21	1.29	1.09
25:X2:822:LYS:HB3	27:Z1:262:ASN:ND2	1.63	1.09
26:Y2:1410:GLN:N	27:Z2:711:LYS:CE	2.14	1.09
26:Y2:1435:LYS:NZ	27:Z2:225:LEU:CD2	2.15	1.09
27:Z1:137:TYR:HB3	27:Z1:269:LYS:HD2	1.10	1.09
27:Z1:647:SER:O	27:Z1:651:LEU:HG	1.50	1.09
27:Z2:213:PRO:HD2	27:Z2:216:LEU:HD22	1.26	1.09
27:Z2:522:GLU:CG	27:Z2:524:GLN:H	1.63	1.09
6:F1:1265:GLN:HB2	15:O2:252:VAL:CG2	1.80	1.09
6:F2:139:GLN:HE22	9:I2:1337:ALA:HA	1.00	1.09
7:G1:247:ASP:CA	15:O2:247:TRP:CH2	2.17	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:253:SER:HA	15:O2:243:LEU:HD23	1.32	1.09
9:I1:911:PRO:HG3	15:O1:202:LEU:CB	1.81	1.09
9:I2:899:LEU:HD21	13:M3:583:ASP:CB	1.53	1.09
9:I2:925:LEU:HD13	15:O3:182:THR:O	1.49	1.09
17:Q1:441:ARG:HH22	17:Q1:508:ASN:HB2	0.95	1.09
22:U1:193:ILE:HG13	27:Z1:664:ARG:CD	1.77	1.09
25:X2:644:TRP:C	27:Z2:535:PHE:CE2	2.25	1.09
25:X2:697:LEU:N	27:Z2:432:ASN:HD21	1.48	1.09
26:Y2:1443:MET:HE2	27:Z2:332:GLU:OE1	1.41	1.09
27:Z1:184:ASP:OD1	27:Z1:197:LEU:CB	1.99	1.09
27:Z1:543:GLN:C	27:Z2:554:HIS:CE1	2.21	1.09
27:Z2:10:LEU:HD22	27:Z2:431:TRP:CH2	1.88	1.09
27:Z2:287:ILE:HD13	27:Z2:348:LEU:HD12	1.13	1.09
27:Z2:292:GLY:O	27:Z2:295:TYR:CD1	2.05	1.09
1:A3:1332:ARG:HD2	4:D3:899:THR:HG21	1.23	1.09
7:G2:253:SER:CA	15:O4:248:SER:O	1.99	1.09
9:I1:978:LYS:CG	15:O1:176:ARG:HH11	1.65	1.09
9:I2:976:ARG:HE	14:N3:293:LYS:HG2	1.02	1.09
9:I2:1051:LYS:HB2	14:N3:292:ARG:HD3	1.13	1.09
9:I2:1162:TYR:N	15:O3:266:GLN:HE21	1.51	1.09
17:Q1:382:ARG:N	17:Q1:512:ILE:CB	2.10	1.09
17:Q1:386:PHE:CE2	17:Q1:566:ASN:CG	2.24	1.09
17:Q2:60:VAL:HG23	17:Q2:68:ILE:HD11	1.29	1.09
17:Q2:1078:LEU:HD21	17:Q2:1155:VAL:HG13	1.27	1.09
18:R1:435:PHE:HB3	18:R1:448:ILE:CG1	1.82	1.09
25:X1:644:TRP:C	27:Z1:535:PHE:CE2	2.25	1.09
25:X1:655:PHE:CE1	27:Z1:545:LEU:HB3	1.86	1.09
25:X1:726:VAL:O	25:X1:727:SER:HB2	1.39	1.09
25:X1:742:GLN:HG2	25:X1:743:GLN:N	1.63	1.09
25:X2:644:TRP:O	27:Z2:535:PHE:CZ	2.02	1.09
25:X2:692:LYS:CG	27:Z2:431:TRP:CH2	2.35	1.09
26:Y1:1434:PHE:CE1	26:Y2:1429:LYS:HD2	1.86	1.09
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CB	2.20	1.09
26:Y2:1291:LEU:HD12	27:Z2:581:PHE:CE1	1.88	1.09
27:Z1:13:PHE:CD1	27:Z1:445:LEU:CD2	2.34	1.09
27:Z1:170:ASN:HD21	27:Z1:177:ALA:HB3	0.94	1.09
27:Z1:216:LEU:HD11	27:Z1:272:ILE:HD11	1.12	1.09
27:Z1:230:SER:C	27:Z1:253:LEU:HD21	1.73	1.09
27:Z1:404:PRO:HD2	27:Z2:262:ASN:HB3	1.17	1.09
1:A2:1223:GLU:OE1	1:A1:611:ILE:HD13	1.53	1.09
1:A4:1053:ARG:HD3	4:D3:671:ARG:HH21	1.04	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:1046:HIS:HD2	9:I1:1390:PHE:CD2	1.70	1.09
7:G2:249:ASP:HB2	15:O4:254:ARG:NE	1.68	1.09
9:I1:1543:LEU:CD2	10:J2:300:ILE:HG21	1.81	1.09
9:I1:1667:GLN:HG3	9:I2:1669:ARG:N	1.65	1.09
9:I2:807:LEU:HD12	15:O3:248:SER:CB	1.82	1.09
9:I2:919:ALA:HB1	16:P3:157:GLU:OE1	1.41	1.09
9:I2:1028:CYS:SG	13:M3:613:ASP:OD1	2.11	1.09
9:I2:1305:LEU:HB3	15:O3:264:ILE:HD13	1.11	1.09
17:Q1:945:ARG:HA	17:Q1:948:GLN:HE21	1.10	1.09
17:Q2:346:LEU:HD12	17:Q2:367:ILE:HG12	1.33	1.09
25:X1:795:LYS:HZ1	27:Z1:666:GLU:CA	1.64	1.09
25:X2:694:ASP:O	27:Z2:432:ASN:N	1.85	1.09
25:X2:790:ASN:CG	27:Z2:680:TRP:CH2	2.25	1.09
25:X2:818:ILE:HD13	26:Y2:1405:GLN:HG3	1.27	1.09
26:Y1:1435:LYS:NZ	27:Z1:225:LEU:CD2	2.14	1.09
26:Y2:1334:LEU:C	27:Z1:108:ALA:HB3	1.66	1.09
26:Y2:1345:LEU:HD23	26:Y2:1348:LYS:HD3	1.28	1.09
27:Z1:137:TYR:CG	27:Z1:215:VAL:HG12	1.84	1.09
27:Z1:184:ASP:OD2	27:Z1:197:LEU:HD23	1.52	1.09
27:Z1:428:TYR:OH	27:Z1:435:SER:CB	1.98	1.09
27:Z1:429:ILE:HB	27:Z1:436:ASN:OD1	1.51	1.09
27:Z2:12:ILE:HD13	27:Z2:54:TYR:CB	1.83	1.09
27:Z2:23:PRO:CA	27:Z2:24:ARG:H	1.65	1.09
27:Z2:26:ILE:CB	27:Z2:440:MET:SD	2.36	1.09
1:A3:1201:ARG:HH22	1:A4:646:ILE:HG22	1.00	1.09
1:A3:1330:VAL:O	4:D3:878:ALA:N	1.86	1.09
6:F1:154:SER:HB3	9:I1:1344:GLN:HE21	0.97	1.09
6:F1:163:ASP:H	9:I1:1331:LYS:CB	1.66	1.09
9:I1:965:ALA:HB2	15:O1:185:ALA:CB	1.83	1.09
9:I1:1359:ASP:CG	15:O1:264:ILE:HD13	1.72	1.09
9:I1:1606:GLU:HG3	9:I2:1669:ARG:NH1	0.77	1.09
9:I2:813:ILE:HG21	15:O3:237:PRO:C	1.73	1.09
9:I2:919:ALA:CA	16:P3:157:GLU:HB3	1.81	1.09
9:I2:1049:LEU:HD11	14:N3:296:GLY:HA2	1.13	1.09
9:I2:1049:LEU:HD13	14:N3:296:GLY:CA	1.61	1.09
9:I2:1106:LYS:HB2	15:O3:275:LEU:HG	1.17	1.09
17:Q1:139:ILE:HG22	17:Q1:165:ILE:HB	1.30	1.09
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD21	1.29	1.09
25:X2:697:LEU:H	27:Z2:432:ASN:ND2	1.49	1.09
26:Y2:1410:GLN:HB3	27:Z2:711:LYS:HE3	1.22	1.09
27:Z1:124:LYS:HD2	27:Z1:126:SER:N	1.67	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:137:TYR:HD2	27:Z2:215:VAL:O	1.24	1.09
27:Z2:137:TYR:HB3	27:Z2:269:LYS:HD2	1.10	1.09
27:Z2:184:ASP:OD2	27:Z2:197:LEU:HD23	1.52	1.09
1:A2:1280:GLN:CB	1:A1:635:ARG:HD2	1.82	1.08
1:A3:1070:ASP:O	9:I2:1238:LYS:HD2	1.53	1.08
1:A4:1094:ILE:HG23	4:D3:675:LEU:HD21	1.30	1.08
7:G1:253:SER:HA	15:O2:243:LEU:CD2	1.83	1.08
9:I1:904:GLU:N	13:M1:576:LYS:HB3	1.67	1.08
9:I1:977:ASN:CB	15:O1:174:LEU:C	2.21	1.08
9:I2:981:VAL:HG22	15:O3:175:SER:HB3	1.10	1.08
9:I2:1105:TRP:CE3	15:O3:273:ASP:HA	1.82	1.08
9:I2:1168:ALA:HB2	15:O3:270:THR:HA	1.34	1.08
9:I2:1305:LEU:HD21	15:O3:260:LEU:HD12	1.14	1.08
17:Q1:928:LYS:HE2	18:R1:695:ALA:HB1	1.28	1.08
25:X1:821:ILE:CG2	26:Y1:1409:LEU:HD21	1.83	1.08
25:X2:821:ILE:CG2	26:Y2:1409:LEU:CD2	2.32	1.08
26:Y2:1334:LEU:O	27:Z1:108:ALA:HB1	0.91	1.08
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:N	1.39	1.08
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:HB	1.12	1.08
26:Y2:1368:LEU:HB2	26:Y2:1382:VAL:O	1.50	1.08
27:Z1:199:THR:O	27:Z1:199:THR:CG2	1.99	1.08
1:A2:1328:ARG:O	4:D1:902:SER:OG	1.72	1.08
1:A3:1070:ASP:OD2	9:I2:1238:LYS:HB3	1.36	1.08
1:A3:1332:ARG:HH11	4:D3:899:THR:HG23	1.03	1.08
1:A4:172:PRO:HB2	4:D3:991:ASP:OD2	1.52	1.08
6:F2:158:PRO:HB3	9:I2:1337:ALA:CB	1.84	1.08
9:I1:1051:LYS:HD3	14:N1:289:PHE:CE2	1.80	1.08
9:I2:895:ARG:H	13:M3:587:GLU:CG	1.46	1.08
9:I2:896:PRO:CG	13:M3:588:MET:HB2	1.82	1.08
9:I2:922:ASP:OD1	15:O3:186:PHE:CA	2.00	1.08
9:I2:965:ALA:HB3	16:P3:152:LYS:HD2	1.33	1.08
9:I2:977:ASN:O	15:O3:174:LEU:C	1.91	1.08
9:I2:1104:LEU:N	13:M3:611:LYS:HZ3	1.32	1.08
22:U1:296:LEU:CD1	27:Z1:657:TYR:N	2.16	1.08
25:X1:807:LEU:HD21	27:Z1:698:ASN:CA	1.82	1.08
25:X2:691:ASN:CB	27:Z2:431:TRP:HD1	1.31	1.08
25:X2:751:LEU:HD11	27:Z2:638:ILE:HD13	1.34	1.08
25:X2:807:LEU:HD21	27:Z2:698:ASN:HA	1.12	1.08
25:X2:815:GLU:CA	26:Y2:1402:LEU:CD2	2.30	1.08
26:Y2:1453:PHE:O	26:Y2:1455:ASN:OD1	1.71	1.08
27:Z1:544:THR:OG1	27:Z2:555:GLU:CA	2.01	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:209:TYR:CG	27:Z2:335:MET:HA	1.88	1.08
27:Z2:678:ASN:N	27:Z2:678:ASN:CB	2.15	1.08
1:A2:1331:GLU:HB3	4:D1:899:THR:C	1.72	1.08
6:F2:139:GLN:CD	9:I2:1340:LEU:HD22	1.73	1.08
7:G2:250:THR:H	15:O4:254:ARG:HD2	1.14	1.08
9:I1:908:ARG:HE	15:O1:209:LEU:CD1	1.65	1.08
9:I2:894:VAL:HB	13:M3:587:GLU:CG	1.82	1.08
9:I2:1095:TYR:CE1	15:O3:267:ALA:N	2.21	1.08
9:I2:1175:LYS:NZ	15:O3:277:GLU:CD	2.06	1.08
17:Q1:922:LEU:HD21	18:R1:688:LEU:HB3	1.36	1.08
25:X2:655:PHE:CE1	27:Z2:545:LEU:HB3	1.86	1.08
26:Y2:1370:THR:CG2	27:Z2:662:LEU:HD21	1.84	1.08
27:Z1:119:GLU:CA	27:Z1:120:GLU:HB3	1.84	1.08
27:Z1:234:TYR:CB	27:Z1:253:LEU:HD11	1.82	1.08
27:Z1:679:GLU:N	27:Z1:680:TRP:H	1.50	1.08
27:Z2:230:SER:C	27:Z2:253:LEU:HD21	1.74	1.08
27:Z2:416:ASP:HB3	27:Z2:569:LYS:HZ3	1.11	1.08
1:A2:1270:SER:HB3	1:A1:729:SER:O	1.50	1.08
6:F1:143:GLY:O	9:I1:1393:GLY:O	1.71	1.08
6:F1:268:SER:O	9:I1:1202:VAL:N	1.69	1.08
9:I1:908:ARG:HD3	13:M1:552:TYR:N	1.68	1.08
9:I1:1106:LYS:HE3	13:M1:611:LYS:HG3	1.29	1.08
9:I2:981:VAL:HG21	15:O3:175:SER:HB3	1.28	1.08
9:I2:1031:ALA:CB	13:M3:621:ARG:CZ	2.32	1.08
13:M3:469:GLU:CB	13:M4:536:GLU:OE1	2.01	1.08
17:Q1:210:LEU:HD11	17:Q1:212:LEU:HD23	1.36	1.08
17:Q1:443:TRP:CD2	17:Q1:504:PHE:CE1	2.41	1.08
17:Q1:553:LEU:HD22	17:Q1:632:LYS:HB3	1.28	1.08
19:R2:661:PRO:HB3	19:R2:710:LYS:HE2	1.34	1.08
25:X2:665:TRP:HE1	26:Y2:1267:GLU:HB3	1.12	1.08
26:Y1:1291:LEU:HD12	27:Z1:581:PHE:CE1	1.88	1.08
27:Z1:292:GLY:O	27:Z1:295:TYR:CD1	2.05	1.08
27:Z1:314:ILE:CG2	27:Z1:326:LEU:HD11	1.84	1.08
27:Z1:389:TRP:CE2	27:Z1:410:PHE:CE1	2.42	1.08
27:Z2:137:TYR:CB	27:Z2:217:LEU:HD21	1.84	1.08
27:Z2:383:GLN:NE2	27:Z2:417:ILE:HG13	1.67	1.08
1:A2:1275:PRO:CD	1:A1:726:ALA:CB	2.32	1.08
6:F1:138:ILE:CG1	9:I1:1388:GLU:O	2.02	1.08
6:F1:139:GLN:HE21	9:I1:1340:LEU:CD1	1.64	1.08
6:F1:1267:ARG:HB2	15:O2:254:ARG:HD2	1.10	1.08
9:I1:908:ARG:HD2	13:M1:552:TYR:CB	1.53	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:910:LYS:N	13:M1:548:LEU:HD22	1.69	1.08
9:I1:912:VAL:N	13:M1:545:GLU:OE2	1.85	1.08
9:I1:1051:LYS:NZ	14:N1:290:VAL:N	1.85	1.08
9:I1:1606:GLU:HG2	9:I2:1669:ARG:CZ	1.61	1.08
9:I2:1026:TYR:OH	13:M3:608:LYS:CG	2.00	1.08
9:I2:1103:LEU:CG	13:M3:611:LYS:HE3	1.82	1.08
17:Q1:509:ALA:HA	17:Q1:516:LEU:HD11	1.20	1.08
17:Q1:811:LEU:HD22	17:Q1:814:LEU:HG	1.34	1.08
17:Q2:210:LEU:HD11	17:Q2:212:LEU:HD23	1.36	1.08
17:Q2:654:VAL:HG12	17:Q2:666:LYS:HE2	1.34	1.08
17:Q2:969:VAL:HG11	17:Q2:1009:LEU:HD13	1.13	1.08
17:Q2:1091:THR:HG23	17:Q2:1094:TYR:H	1.17	1.08
22:U1:340:LYS:HD2	27:Z1:646:HIS:NE2	1.67	1.08
25:X1:751:LEU:HD13	27:Z1:638:ILE:HG12	1.30	1.08
25:X2:755:LEU:CD1	26:Y2:1349:LEU:HD21	1.82	1.08
26:Y1:1294:LYS:CE	27:Z1:588:TRP:HD1	1.54	1.08
26:Y2:1302:ASP:O	26:Y2:1306:ILE:HG13	1.53	1.08
27:Z1:230:SER:HB3	27:Z1:253:LEU:HD23	1.12	1.08
27:Z2:227:LEU:HD21	27:Z2:256:VAL:HG12	1.14	1.08
27:Z2:389:TRP:CE2	27:Z2:410:PHE:CE1	2.42	1.08
1:A2:1221:ILE:HD11	1:A1:596:ARG:HD2	1.32	1.07
9:I1:1667:GLN:HG3	9:I2:1669:ARG:H	1.15	1.07
9:I2:963:LEU:HD12	16:P3:148:ALA:O	1.54	1.07
9:I2:1099:ARG:CG	15:O3:268:GLY:HA2	1.84	1.07
9:I2:1305:LEU:CB	15:O3:264:ILE:CD1	1.97	1.07
17:Q1:60:VAL:HG23	17:Q1:68:ILE:HD11	1.29	1.07
17:Q1:552:THR:HA	17:Q1:556:HIS:HB2	1.34	1.07
25:X1:795:LYS:HE2	27:Z1:666:GLU:HA	1.17	1.07
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:CB	2.29	1.07
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:HE3	1.19	1.07
6:F1:141:ALA:HA	9:I1:1390:PHE:CG	1.89	1.07
7:G2:253:SER:HA	15:O4:249:ARG:C	1.74	1.07
9:I1:904:GLU:HG3	13:M1:573:ARG:O	1.49	1.07
9:I1:1051:LYS:HZ2	14:N1:290:VAL:HG22	0.96	1.07
17:Q1:384:ASN:HA	17:Q1:510:ASN:N	1.69	1.07
17:Q2:928:LYS:HE2	19:R2:695:ALA:HB1	1.31	1.07
18:R1:409:LYS:NZ	18:R1:448:ILE:CA	2.17	1.07
25:X1:755:LEU:CD1	26:Y1:1349:LEU:HD21	1.83	1.07
25:X1:770:ASN:O	25:X1:774:ASN:OD1	1.70	1.07
25:X2:778:LYS:HG3	25:X2:795:LYS:N	1.60	1.07
26:Y2:1125:ASP:C	26:Y2:1125:ASP:HB3	1.73	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1316:GLU:OE2	27:Z2:609:LEU:HD22	1.53	1.07
26:Y2:1333:ASP:CA	26:Y2:1333:ASP:N	2.17	1.07
26:Y2:1443:MET:HE1	27:Z2:332:GLU:CD	1.62	1.07
27:Z1:393:LEU:HD21	27:Z1:405:LEU:HD22	1.29	1.07
1:A2:1200:ARG:HB3	1:A1:595:GLU:HB2	1.10	1.07
1:A2:1228:TYR:OH	1:A1:642:ARG:HB3	0.89	1.07
9:I1:1669:ARG:HH11	9:I2:1611:PHE:C	1.55	1.07
9:I2:807:LEU:CD1	15:O3:248:SER:CB	2.30	1.07
9:I2:1034:ASP:HA	15:O3:284:LYS:HE2	1.32	1.07
17:Q1:969:VAL:HG11	17:Q1:1009:LEU:HD13	1.13	1.07
17:Q2:922:LEU:CD2	19:R2:688:LEU:HB2	1.80	1.07
17:Q2:1007:SER:HB2	17:Q2:1044:ARG:HD3	1.36	1.07
17:Q2:1068:GLU:HB2	17:Q2:1070:LEU:HD22	1.36	1.07
26:Y1:1345:LEU:HD23	26:Y1:1348:LYS:HD3	1.28	1.07
26:Y2:1321:MET:CB	27:Z1:51:ASP:H	1.58	1.07
26:Y2:1333:ASP:N	27:Z1:94:PRO:N	2.00	1.07
27:Z1:252:GLN:HE21	27:Z1:335:MET:HG2	1.19	1.07
27:Z1:303:ALA:HB2	27:Z1:363:LEU:CD2	1.72	1.07
27:Z2:137:TYR:CA	27:Z2:217:LEU:CD2	2.32	1.07
1:A2:1220:PRO:O	1:A1:599:ARG:HD2	1.25	1.07
1:A4:625:LEU:C	4:D3:981:VAL:HG23	1.70	1.07
6:F1:135:VAL:CG1	9:I1:1336:MET:HG3	1.61	1.07
6:F1:153:LEU:HD23	9:I1:1395:LEU:HD21	1.34	1.07
9:I1:1048:GLU:HG3	14:N1:293:LYS:HE3	1.29	1.07
9:I2:1033:PRO:HG2	13:M3:619:ILE:H	1.06	1.07
9:I2:1051:LYS:HD2	14:N3:289:PHE:CD1	1.90	1.07
9:I2:1109:LEU:HB2	15:O3:284:LYS:HD2	1.35	1.07
17:Q2:594:LEU:HD23	17:Q2:639:PRO:HD2	1.35	1.07
22:U1:209:PRO:HG3	27:Z1:662:LEU:HB2	1.09	1.07
25:X2:690:GLN:HE22	27:Z2:577:LEU:HB3	1.20	1.07
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD21	1.83	1.07
26:Y1:1363:LEU:HD23	26:Y1:1366:LEU:HD12	1.36	1.07
26:Y2:1218:PHE:HE1	26:Y2:1222:GLU:OE2	1.37	1.07
26:Y2:1332:LYS:CB	27:Z1:97:TYR:HB2	1.83	1.07
27:Z1:137:TYR:CB	27:Z1:217:LEU:HD21	1.84	1.07
27:Z1:209:TYR:CG	27:Z1:335:MET:HA	1.88	1.07
27:Z1:307:ILE:HD11	27:Z1:386:PHE:CE2	1.89	1.07
27:Z2:178:ARG:HH21	27:Z2:280:LYS:HD3	1.17	1.07
27:Z2:372:LYS:HG2	27:Z2:385:ASN:OD1	1.55	1.07
6:F2:137:ASN:HA	9:I2:1388:GLU:O	1.54	1.07
7:G1:251:TYR:CE1	15:O2:248:SER:CB	2.38	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:925:LEU:CD1	15:O1:184:ARG:CB	2.26	1.07
17:Q1:443:TRP:CG	17:Q1:504:PHE:CE1	2.28	1.07
22:U1:241:ARG:HB3	27:Z1:656:SER:CB	1.83	1.07
25:X1:821:ILE:CG2	26:Y1:1409:LEU:CD2	2.32	1.07
25:X2:693:ILE:HB	27:Z2:7:LEU:HG	1.10	1.07
25:X2:765:LEU:HD22	27:Z2:652:GLN:OE1	1.47	1.07
25:X2:778:LYS:HE3	25:X2:791:ILE:HG22	1.17	1.07
26:Y1:1370:THR:CG2	27:Z1:662:LEU:HD21	1.83	1.07
26:Y1:1371:VAL:HB	26:Y1:1372:LYS:HD3	1.34	1.07
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:NZ	1.68	1.07
27:Z1:128:LYS:CE	27:Z1:147:GLU:HA	1.85	1.07
27:Z2:227:LEU:HD23	27:Z2:256:VAL:HG11	1.09	1.07
27:Z2:314:ILE:CG2	27:Z2:326:LEU:HD11	1.84	1.07
1:A2:1223:GLU:OE1	1:A1:611:ILE:CD1	2.04	1.06
1:A2:1386:GLU:OE2	1:A1:728:LYS:HE3	1.50	1.06
1:A3:1200:ARG:CB	1:A4:591:ASP:CG	2.24	1.06
6:F1:135:VAL:CG1	9:I1:1336:MET:HB3	1.82	1.06
7:G2:253:SER:HA	15:O4:248:SER:O	1.53	1.06
9:I1:980:ILE:HD11	15:O1:172:ALA:O	1.52	1.06
9:I2:809:HIS:HE2	15:O3:243:LEU:CG	1.67	1.06
9:I2:896:PRO:CD	13:M3:588:MET:HB2	1.84	1.06
9:I2:922:ASP:OD1	15:O3:186:PHE:HA	1.53	1.06
9:I2:976:ARG:HA	14:N3:297:ALA:N	1.69	1.06
10:J1:252:LEU:HD13	15:O1:273:ASP:HB3	1.37	1.06
17:Q2:791:VAL:HG13	17:Q2:792:LEU:HD12	1.36	1.06
22:U1:299:GLU:HG3	27:Z1:652:GLN:C	1.74	1.06
25:X1:648:LEU:HB2	27:Z2:547:VAL:HG11	1.37	1.06
25:X1:658:TYR:HD2	27:Z1:549:ILE:HD13	0.90	1.06
25:X2:770:ASN:O	25:X2:774:ASN:OD1	1.70	1.06
26:Y1:1218:PHE:HE1	26:Y1:1222:GLU:OE2	1.37	1.06
26:Y2:1211:LEU:CD1	26:Y2:1214:ILE:CD1	2.27	1.06
26:Y2:1333:ASP:H	27:Z1:94:PRO:HA	1.05	1.06
26:Y2:1392:ARG:HH12	27:Z2:690:ASP:HA	0.98	1.06
27:Z1:10:LEU:HD22	27:Z1:431:TRP:CH2	1.88	1.06
27:Z1:12:ILE:HD13	27:Z1:54:TYR:CB	1.83	1.06
27:Z1:137:TYR:CA	27:Z1:217:LEU:CD2	2.32	1.06
27:Z1:217:LEU:HD21	27:Z1:269:LYS:HD3	1.07	1.06
27:Z1:389:TRP:CZ2	27:Z1:410:PHE:HE1	1.73	1.06
27:Z2:307:ILE:HD11	27:Z2:386:PHE:CE2	1.89	1.06
27:Z2:429:ILE:CG2	27:Z2:431:TRP:NE1	2.18	1.06
1:A2:1220:PRO:O	1:A1:599:ARG:CG	2.02	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1313:LYS:NZ	1:A1:728:LYS:HZ1	1.54	1.06
1:A3:1090:SER:O	4:D3:1100:PRO:HG3	1.52	1.06
1:A3:1328:ARG:CG	4:D3:872:LEU:HD22	1.84	1.06
4:D1:673:LEU:HD12	1:A1:1094:ILE:HD11	1.34	1.06
6:F1:135:VAL:HG11	9:I1:1336:MET:HB3	1.14	1.06
7:G1:255:LEU:CB	15:O2:246:LEU:N	2.11	1.06
17:Q1:417:LEU:HD22	17:Q1:426:ILE:HG22	1.37	1.06
17:Q1:1091:THR:HG23	17:Q1:1094:TYR:H	1.17	1.06
19:R2:707:SER:HA	19:R2:711:LEU:HD13	1.29	1.06
20:S1:571:ALA:CB	21:T1:86:ASN:CB	2.25	1.06
22:U1:209:PRO:HG2	27:Z1:658:LEU:C	1.74	1.06
24:W1:526:ARG:HD3	24:W1:740:PHE:CB	1.84	1.06
25:X2:714:PHE:HZ	26:Y2:1316:GLU:HG3	0.97	1.06
26:Y2:1291:LEU:HD11	27:Z2:581:PHE:HD1	1.00	1.06
27:Z1:129:LYS:HD3	27:Z1:145:LEU:CD2	1.85	1.06
1:A3:1332:ARG:HD2	4:D3:899:THR:HG23	1.29	1.06
1:A3:1400:SER:N	4:D3:869:THR:CG2	2.17	1.06
1:A4:624:ASP:O	4:D3:980:ARG:HD2	1.51	1.06
6:F1:1807:GLU:C	14:N2:412:ASN:HA	1.75	1.06
9:I1:965:ALA:HB2	15:O1:185:ALA:H	1.14	1.06
9:I1:1049:LEU:HB3	15:O1:170:LEU:HB3	1.36	1.06
17:Q1:386:PHE:HZ	17:Q1:563:PHE:HA	0.93	1.06
17:Q1:441:ARG:NH2	17:Q1:508:ASN:HB2	1.67	1.06
17:Q1:448:SER:HB3	17:Q1:546:ILE:HG21	1.07	1.06
17:Q1:824:ASN:HA	17:Q1:827:THR:HB	1.30	1.06
24:W1:527:SER:N	24:W1:739:PHE:O	1.88	1.06
25:X2:822:LYS:HA	27:Z1:262:ASN:ND2	1.51	1.06
26:Y2:1362:LEU:HD23	26:Y2:1387:LYS:HG3	1.38	1.06
27:Z1:216:LEU:HD21	27:Z1:272:ILE:HD12	1.23	1.06
27:Z2:34:ARG:HG3	27:Z2:95:TRP:CH2	1.91	1.06
27:Z2:128:LYS:CE	27:Z2:147:GLU:HA	1.85	1.06
27:Z2:218:LEU:HD12	27:Z2:223:LEU:HD21	1.37	1.06
1:A1:827:ILE:HD13	1:A1:849:SER:CA	1.86	1.06
1:A1:827:ILE:HD13	1:A1:849:SER:N	1.69	1.06
9:I1:1051:LYS:HD3	14:N1:289:PHE:HE2	1.15	1.06
9:I2:809:HIS:CD2	15:O3:244:GLU:H	1.71	1.06
9:I2:965:ALA:CB	16:P3:152:LYS:HD2	1.84	1.06
9:I2:1098:LEU:CD2	15:O3:269:ILE:HG23	1.85	1.06
9:I2:1103:LEU:CD1	13:M3:614:ASP:HB3	1.85	1.06
10:J1:248:VAL:CG2	15:O1:273:ASP:CG	2.23	1.06
17:Q1:197:GLU:HG2	17:Q1:199:PRO:HD3	1.31	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:451:ASN:H	17:Q1:548:PRO:HB2	1.16	1.06
17:Q1:891:ILE:HD13	18:R1:715:LEU:HD22	1.31	1.06
17:Q2:922:LEU:CD1	19:R2:688:LEU:O	2.04	1.06
17:Q2:929:LEU:CD1	19:R2:695:ALA:HB2	1.84	1.06
25:X2:717:LYS:HB3	26:Y2:1320:LEU:HD11	1.37	1.06
26:Y1:1431:MET:N	26:Y1:1434:PHE:CE2	2.24	1.06
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:HD12	1.71	1.06
27:Z1:55:HIS:HE1	27:Z1:98:SER:OG	1.29	1.06
27:Z1:217:LEU:HD22	27:Z1:269:LYS:HD3	1.17	1.06
27:Z1:372:LYS:HG2	27:Z1:385:ASN:OD1	1.55	1.06
27:Z1:424:PRO:HG3	27:Z1:439:LEU:HD21	1.37	1.06
27:Z2:129:LYS:HD3	27:Z2:145:LEU:CD2	1.85	1.06
1:A2:1224:PRO:CG	1:A1:648:TYR:OH	2.04	1.06
1:A2:1331:GLU:HA	4:D1:903:ILE:HG13	1.36	1.06
9:I1:911:PRO:HG3	15:O1:202:LEU:CD1	1.76	1.06
9:I1:1051:LYS:HB3	14:N1:293:LYS:NZ	1.69	1.06
9:I1:1669:ARG:HD3	9:I2:1611:PHE:O	1.53	1.06
9:I2:806:VAL:CG1	15:O3:248:SER:N	2.18	1.06
9:I2:899:LEU:CD2	13:M3:583:ASP:HB3	1.85	1.06
9:I2:902:GLN:CB	13:M3:580:LYS:HB3	1.52	1.06
9:I2:928:LEU:HD22	15:O3:179:LEU:HD23	1.34	1.06
9:I2:976:ARG:NH2	14:N3:293:LYS:HD3	1.67	1.06
9:I2:1255:HIS:CE1	14:N3:407:ALA:HB3	1.90	1.06
25:X1:818:ILE:CD1	26:Y1:1405:GLN:CG	2.34	1.06
25:X2:775:THR:HA	25:X2:794:ILE:HD13	1.11	1.06
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CG	1.86	1.06
27:Z1:544:THR:HG23	27:Z2:558:PHE:N	1.68	1.06
7:G2:252:LEU:O	15:O4:252:VAL:CG2	2.04	1.05
9:I1:1049:LEU:HD23	15:O1:170:LEU:HD22	1.37	1.05
9:I2:916:ALA:CB	15:O3:189:ARG:O	0.76	1.05
9:I2:964:SER:N	16:P3:152:LYS:CG	2.19	1.05
17:Q2:811:LEU:HD22	17:Q2:814:LEU:HG	1.34	1.05
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HZ2	1.60	1.05
25:X1:714:PHE:HZ	27:Z1:609:LEU:HD21	1.18	1.05
25:X1:818:ILE:HD13	26:Y1:1405:GLN:CG	1.86	1.05
27:Z1:137:TYR:HA	27:Z1:217:LEU:CD2	1.87	1.05
27:Z1:178:ARG:HH21	27:Z1:280:LYS:HD3	1.17	1.05
27:Z1:227:LEU:HD21	27:Z1:256:VAL:HG12	1.14	1.05
27:Z1:264:ASN:ND2	27:Z1:267:PHE:HD2	1.53	1.05
27:Z1:544:THR:HG23	27:Z2:558:PHE:CB	1.84	1.05
27:Z2:10:LEU:CD2	27:Z2:431:TRP:HH2	1.48	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:94:PRO:HB3	27:Z2:109:PHE:CZ	1.91	1.05
27:Z2:343:VAL:HB	27:Z2:346:ASN:ND2	1.70	1.05
27:Z2:424:PRO:CG	27:Z2:439:LEU:HD21	1.86	1.05
27:Z2:522:GLU:CG	27:Z2:524:GLN:N	2.18	1.05
1:A2:1280:GLN:HB3	1:A1:635:ARG:HD2	1.10	1.05
6:F1:153:LEU:CD2	9:I1:1395:LEU:HD21	1.84	1.05
9:I2:1095:TYR:CD1	15:O3:266:GLN:C	2.30	1.05
9:I2:1168:ALA:HB1	15:O3:269:ILE:O	1.54	1.05
17:Q1:791:VAL:HG13	17:Q1:792:LEU:HD12	1.37	1.05
25:X1:637:LEU:C	26:Y1:1218:PHE:CE2	2.30	1.05
25:X1:658:TYR:CZ	25:X1:662:ILE:HD11	1.90	1.05
25:X1:690:GLN:NE2	27:Z1:577:LEU:HB3	1.71	1.05
25:X1:788:ASP:O	25:X1:792:GLN:NE2	1.88	1.05
25:X1:789:GLU:CG	27:Z1:680:TRP:CE2	2.38	1.05
25:X2:774:ASN:HB2	25:X2:794:ILE:O	0.89	1.05
25:X2:815:GLU:HG3	26:Y2:1402:LEU:HD21	1.33	1.05
26:Y1:1302:ASP:O	26:Y1:1306:ILE:HG13	1.53	1.05
27:Z1:10:LEU:CD2	27:Z1:431:TRP:HH2	1.48	1.05
27:Z1:34:ARG:HG3	27:Z1:95:TRP:CH2	1.91	1.05
27:Z1:170:ASN:HD21	27:Z1:177:ALA:CB	1.67	1.05
27:Z1:192:LEU:CD1	27:Z1:226:ILE:HD11	1.85	1.05
27:Z1:541:LYS:CD	27:Z2:549:ILE:O	2.04	1.05
27:Z2:581:PHE:C	27:Z2:581:PHE:H	1.59	1.05
1:A2:1204:TRP:HD1	1:A1:599:ARG:HB2	1.19	1.05
1:A2:1229:VAL:HG22	1:A1:640:LEU:N	1.72	1.05
1:A3:1327:VAL:C	4:D3:876:SER:HB2	1.75	1.05
6:F1:163:ASP:N	9:I1:1331:LYS:HB2	1.72	1.05
9:I1:897:GLU:HA	13:M1:580:LYS:HG2	1.24	1.05
9:I1:1543:LEU:HD23	10:J2:300:ILE:CG2	1.87	1.05
9:I2:923:GLY:CA	15:O3:190:ARG:HH21	1.70	1.05
9:I2:1255:HIS:CD2	14:N3:407:ALA:C	2.28	1.05
25:X2:692:LYS:CA	27:Z2:431:TRP:CD2	2.11	1.05
25:X2:694:ASP:CB	27:Z2:431:TRP:HB3	1.86	1.05
25:X2:778:LYS:HD3	25:X2:795:LYS:HB2	1.23	1.05
26:Y2:1124:THR:C	26:Y2:1126:LEU:CD1	2.25	1.05
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:CD2	2.18	1.05
26:Y2:1317:TYR:CD1	27:Z1:48:VAL:O	2.09	1.05
26:Y2:1372:LYS:C	26:Y2:1372:LYS:N	2.09	1.05
26:Y2:1412:GLU:HG3	27:Z1:254:GLN:HB2	1.36	1.05
26:Y2:1435:LYS:HE3	27:Z2:225:LEU:CD2	1.84	1.05
27:Z1:34:ARG:HD2	27:Z1:47:ASN:HD22	0.93	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:241:THR:HG21	27:Z1:246:LYS:HG2	1.29	1.05
27:Z1:424:PRO:CG	27:Z1:439:LEU:HD21	1.86	1.05
27:Z1:429:ILE:CG2	27:Z1:431:TRP:NE1	2.18	1.05
27:Z1:534:GLU:HB3	27:Z2:545:LEU:HA	1.37	1.05
27:Z2:34:ARG:HD2	27:Z2:47:ASN:HD22	0.93	1.05
27:Z2:192:LEU:CD1	27:Z2:226:ILE:HD11	1.85	1.05
27:Z2:303:ALA:HB2	27:Z2:363:LEU:CD2	1.72	1.05
1:A2:1204:TRP:CD1	1:A1:599:ARG:CA	2.39	1.05
1:A2:1280:GLN:HB3	1:A1:635:ARG:CD	1.86	1.05
1:A4:827:ILE:HD13	1:A4:849:SER:N	1.69	1.05
6:F1:1137:GLN:O	15:O2:237:PRO:HG3	1.52	1.05
7:G1:253:SER:H	13:M2:595:MET:HE3	1.14	1.05
9:I1:977:ASN:ND2	15:O1:178:ASP:H	1.53	1.05
9:I2:925:LEU:CD1	15:O3:182:THR:O	2.05	1.05
9:I2:1107:SER:CB	13:M3:615:PRO:CB	2.28	1.05
17:Q1:553:LEU:HD13	17:Q1:629:LEU:HD22	1.39	1.05
17:Q1:594:LEU:HD23	17:Q1:639:PRO:HD2	1.35	1.05
17:Q1:919:GLU:OE1	18:R1:683:PHE:CD2	2.09	1.05
17:Q1:1068:GLU:HB2	17:Q1:1070:LEU:HD22	1.36	1.05
17:Q2:476:GLN:OE1	17:Q2:514:PHE:HE1	1.38	1.05
18:R1:406:GLU:CB	18:R1:447:PHE:HD1	1.60	1.05
22:U1:207:LYS:CD	27:Z1:663:THR:O	0.76	1.05
22:U1:212:LYS:NZ	25:X1:768:GLU:CG	2.16	1.05
25:X1:751:LEU:HD11	27:Z1:638:ILE:HD13	1.35	1.05
25:X2:823:LYS:NZ	27:Z1:215:VAL:HA	1.71	1.05
26:Y1:1316:GLU:OE2	27:Z1:609:LEU:HD22	1.53	1.05
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:CD2	1.84	1.05
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:HB2	1.91	1.05
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:HD22	1.87	1.05
27:Z1:395:LYS:CG	27:Z2:266:ARG:HG2	1.86	1.05
27:Z2:120:GLU:O	27:Z2:124:LYS:HG2	1.57	1.05
27:Z2:416:ASP:CB	27:Z2:569:LYS:HE2	1.87	1.05
1:A3:1204:TRP:CD1	1:A4:648:TYR:CE1	2.26	1.05
9:I1:909:ARG:H	15:O1:205:ARG:HD3	1.20	1.05
9:I2:981:VAL:HG22	15:O3:175:SER:CB	1.80	1.05
9:I2:1026:TYR:CE1	13:M3:609:GLY:CA	2.40	1.05
17:Q1:346:LEU:HD12	17:Q1:367:ILE:HG12	1.33	1.05
17:Q1:444:GLU:OE1	17:Q1:508:ASN:HB2	1.56	1.05
22:U1:300:HIS:CE1	27:Z1:649:LYS:HB3	1.92	1.05
25:X1:798:ASN:O	26:Y1:1372:LYS:N	1.85	1.05
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD22	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:638:ASP:N	27:Z2:528:PHE:HZ	1.54	1.05
25:X2:658:TYR:CZ	25:X2:662:ILE:HD11	1.91	1.05
25:X2:680:TYR:OH	27:Z2:439:LEU:CD1	2.04	1.05
25:X2:714:PHE:HZ	27:Z2:609:LEU:HD21	1.18	1.05
25:X2:774:ASN:CG	25:X2:798:ASN:HB2	1.74	1.05
25:X2:818:ILE:HD13	26:Y2:1405:GLN:CG	1.86	1.05
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:CG	1.74	1.05
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CA	1.63	1.05
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:N	1.70	1.05
27:Z1:326:LEU:HB3	27:Z1:352:GLU:HG2	1.36	1.05
27:Z1:541:LYS:NZ	27:Z2:553:ILE:HG13	1.69	1.05
27:Z2:35:ILE:CG1	27:Z2:46:TYR:OH	2.05	1.05
27:Z2:389:TRP:CZ2	27:Z2:410:PHE:HE1	1.73	1.05
6:F1:161:ALA:H	9:I1:1335:LYS:CA	1.70	1.04
9:I1:842:ASN:ND2	13:M1:542:ASP:OD2	1.89	1.04
9:I1:913:ALA:N	13:M1:541:LEU:HD22	1.71	1.04
9:I2:810:GLU:N	15:O3:244:GLU:CB	2.19	1.04
9:I2:1253:GLY:N	14:N3:410:MET:H	1.54	1.04
10:J1:249:ASP:CB	15:O1:272:SER:O	2.03	1.04
17:Q1:725:PHE:HB2	17:Q1:744:LYS:HE3	1.35	1.04
18:R1:530:ILE:HA	18:R1:549:PHE:HE2	1.22	1.04
18:R1:627:THR:HG21	18:R1:663:LEU:HD13	1.38	1.04
19:R2:684:ILE:HD13	19:R2:722:ALA:HA	1.39	1.04
22:U1:289:GLN:HG2	25:X1:794:ILE:HA	1.06	1.04
25:X2:818:ILE:CD1	26:Y2:1405:GLN:CG	2.34	1.04
26:Y1:1383:ALA:CA	26:Y2:1361:GLU:HA	1.83	1.04
26:Y2:1124:THR:C	26:Y2:1126:LEU:HD12	1.78	1.04
26:Y2:1431:MET:N	26:Y2:1434:PHE:CE2	2.24	1.04
27:Z1:24:ARG:NH2	27:Z1:440:MET:SD	2.19	1.04
27:Z1:227:LEU:HD23	27:Z1:256:VAL:HG11	1.09	1.04
27:Z1:356:LEU:HD13	27:Z1:358:ARG:NH2	1.70	1.04
27:Z2:137:TYR:HA	27:Z2:217:LEU:CD2	1.86	1.04
27:Z2:170:ASN:HD21	27:Z2:177:ALA:CB	1.67	1.04
27:Z2:170:ASN:HD21	27:Z2:177:ALA:HB3	0.94	1.04
27:Z2:209:TYR:CD1	27:Z2:335:MET:HA	1.93	1.04
27:Z2:326:LEU:HB3	27:Z2:352:GLU:HG2	1.36	1.04
1:A3:1332:ARG:NE	4:D3:903:ILE:CG1	1.89	1.04
6:F1:158:PRO:HG3	9:I1:1340:LEU:H	0.87	1.04
9:I1:911:PRO:C	13:M1:545:GLU:OE2	1.95	1.04
9:I2:964:SER:CA	16:P3:152:LYS:HB2	1.87	1.04
9:I2:978:LYS:CA	15:O3:174:LEU:O	2.05	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:568:ALA:HA	21:T1:86:ASN:OD1	1.55	1.04
26:Y1:1385:LEU:HD11	27:Z1:683:LEU:CD2	1.88	1.04
27:Z1:35:ILE:CG1	27:Z1:46:TYR:OH	2.05	1.04
27:Z1:137:TYR:HB3	27:Z1:269:LYS:CD	1.77	1.04
27:Z1:611:GLN:C	27:Z1:612:ILE:CA	2.25	1.04
27:Z2:241:THR:HG22	27:Z2:246:LYS:HG3	1.39	1.04
1:A1:827:ILE:CG1	1:A1:849:SER:HA	1.87	1.04
1:A3:1399:ARG:CD	4:D3:866:PHE:HD1	1.69	1.04
1:A4:827:ILE:CG1	1:A4:849:SER:HA	1.87	1.04
6:F1:135:VAL:O	9:I1:1392:VAL:HB	1.56	1.04
7:G1:251:TYR:CE2	15:O2:244:GLU:CA	2.40	1.04
7:G2:252:LEU:H	15:O4:251:ILE:CG2	1.68	1.04
9:I1:838:GLU:HG2	15:O1:198:ARG:NE	1.61	1.04
9:I2:896:PRO:HD3	13:M3:588:MET:HB2	1.39	1.04
9:I2:1103:LEU:CA	13:M3:611:LYS:NZ	2.19	1.04
17:Q1:384:ASN:HA	17:Q1:510:ASN:H	0.89	1.04
17:Q2:891:ILE:HD11	19:R2:715:LEU:HD21	1.08	1.04
20:S1:571:ALA:CB	21:T1:86:ASN:HD22	1.69	1.04
25:X2:690:GLN:NE2	27:Z2:577:LEU:HB3	1.72	1.04
25:X2:700:ILE:HB	26:Y2:1298:TYR:CD1	1.92	1.04
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CB	2.41	1.04
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:CA	1.86	1.04
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:HD22	0.72	1.04
27:Z1:128:LYS:HE3	27:Z1:147:GLU:HA	1.07	1.04
27:Z1:209:TYR:CD1	27:Z1:335:MET:HA	1.93	1.04
27:Z1:325:ILE:CG2	27:Z1:350:LEU:HD13	1.87	1.04
27:Z1:538:ARG:HA	27:Z2:551:ASN:N	1.66	1.04
27:Z2:217:LEU:HD21	27:Z2:269:LYS:HD3	1.08	1.04
1:A2:1269:ALA:O	1:A1:731:ILE:HG13	1.55	1.04
1:A3:1328:ARG:HG2	4:D3:872:LEU:CD2	1.86	1.04
6:F2:143:GLY:N	9:I2:1395:LEU:HD23	1.59	1.04
9:I2:843:GLU:H	15:O3:191:ARG:NH2	1.53	1.04
9:I2:1048:GLU:OE2	14:N3:293:LYS:HE2	1.58	1.04
9:I2:1103:LEU:HD22	13:M3:614:ASP:CG	1.77	1.04
17:Q1:214:CYS:HB3	17:Q1:281:ARG:HD2	1.40	1.04
17:Q2:960:ILE:HG23	17:Q2:991:LEU:HD11	1.40	1.04
22:U1:192:ILE:N	27:Z1:664:ARG:NH1	1.86	1.04
22:U1:209:PRO:HG3	27:Z1:658:LEU:O	1.52	1.04
22:U1:209:PRO:CD	27:Z1:662:LEU:H	1.69	1.04
22:U1:296:LEU:CD1	27:Z1:657:TYR:H	1.69	1.04
24:W1:403:ASP:HB2	24:W1:723:PHE:O	1.33	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CG	1.88	1.04
25:X2:645:THR:N	27:Z2:535:PHE:HE2	1.56	1.04
25:X2:695:GLN:CB	27:Z2:48:VAL:CG1	1.78	1.04
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:HD22	1.87	1.04
27:Z1:395:LYS:HG2	27:Z2:266:ARG:HG2	1.39	1.04
27:Z2:45:TRP:NE1	27:Z2:95:TRP:HZ3	1.56	1.04
27:Z2:94:PRO:CD	27:Z2:94:PRO:N	2.14	1.04
27:Z2:252:GLN:HE21	27:Z2:335:MET:HG2	1.19	1.04
1:A2:1227:PRO:HD3	1:A1:647:GLU:CG	1.88	1.04
6:F2:176:ARG:CZ	9:I2:1207:PRO:HD3	1.87	1.04
7:G1:251:TYR:HE1	15:O2:248:SER:HB3	1.17	1.04
9:I1:838:GLU:HG3	15:O1:198:ARG:HE	0.90	1.04
9:I1:1609:GLY:O	9:I2:1677:LYS:NZ	1.89	1.04
9:I2:892:HIS:HB2	13:M3:591:ASP:OD2	0.87	1.04
9:I2:928:LEU:HD22	15:O3:179:LEU:CD2	1.69	1.04
9:I2:1103:LEU:CA	13:M3:611:LYS:HZ1	1.69	1.04
9:I2:1106:LYS:HE2	14:N3:430:ARG:HH11	0.87	1.04
14:N3:264:ARG:HG2	14:N4:334:LEU:HD22	1.36	1.04
17:Q1:960:ILE:HG23	17:Q1:991:LEU:HD11	1.40	1.04
24:W1:530:LYS:CG	24:W1:745:GLU:C	2.26	1.04
25:X1:644:TRP:O	27:Z1:535:PHE:CZ	2.02	1.04
27:Z2:380:ILE:O	27:Z2:380:ILE:CG2	2.03	1.04
1:A3:1204:TRP:CD1	1:A4:595:GLU:HG3	1.91	1.03
1:A4:1027:HIS:HE1	4:D3:478:ALA:CB	1.67	1.03
9:I1:904:GLU:H	13:M1:576:LYS:HB3	0.89	1.03
9:I2:889:THR:H	13:M3:594:LYS:HD2	0.91	1.03
9:I2:960:SER:HB2	16:P3:154:ALA:CA	1.88	1.03
10:J2:249:ASP:OD2	14:N3:431:VAL:CG1	2.04	1.03
17:Q1:385:THR:CG2	17:Q1:507:ILE:CG2	2.31	1.03
18:R1:684:ILE:HD12	18:R1:688:LEU:HD11	1.36	1.03
25:X1:665:TRP:NE1	26:Y1:1267:GLU:CB	1.87	1.03
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CZ	1.93	1.03
25:X2:694:ASP:HB2	27:Z2:431:TRP:HB3	1.10	1.03
25:X2:811:SER:HG	27:Z2:701:LEU:HD11	1.14	1.03
26:Y1:1382:VAL:O	26:Y2:1364:ASN:HB3	1.57	1.03
27:Z1:128:LYS:HE3	27:Z1:147:GLU:CB	1.86	1.03
27:Z1:343:VAL:CB	27:Z1:346:ASN:HD22	1.70	1.03
27:Z1:383:GLN:HG3	27:Z1:417:ILE:HG21	1.37	1.03
27:Z2:209:TYR:CZ	27:Z2:335:MET:N	2.26	1.03
27:Z2:218:LEU:HD13	27:Z2:223:LEU:HD23	1.39	1.03
27:Z2:448:GLN:HB2	27:Z2:573:LYS:HZ2	1.21	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:274:PHE:N	9:I1:1207:PRO:O	1.89	1.03
9:I1:844:LYS:NZ	13:M1:539:ALA:HB2	1.73	1.03
9:I1:978:LYS:NZ	15:O1:184:ARG:HH21	1.57	1.03
9:I2:809:HIS:CG	15:O3:244:GLU:H	1.76	1.03
9:I2:917:TYR:HE2	15:O3:190:ARG:NH1	1.24	1.03
9:I2:961:ARG:HD2	16:P3:155:GLU:O	1.56	1.03
9:I2:982:GLN:CG	15:O3:179:LEU:HD13	1.65	1.03
9:I2:982:GLN:HG2	15:O3:179:LEU:HD13	1.04	1.03
9:I2:1099:ARG:NH1	13:M3:609:GLY:C	1.98	1.03
17:Q1:381:TYR:C	17:Q1:512:ILE:HG13	1.78	1.03
17:Q2:725:PHE:HB2	17:Q2:744:LYS:HE3	1.35	1.03
17:Q2:857:LEU:HD11	17:Q2:915:GLU:O	1.56	1.03
24:W1:403:ASP:CB	24:W1:723:PHE:C	2.13	1.03
25:X1:700:ILE:HB	26:Y1:1298:TYR:CD1	1.92	1.03
25:X2:721:LEU:HB3	27:Z2:612:ILE:HD11	1.39	1.03
25:X2:774:ASN:ND2	25:X2:798:ASN:CG	2.11	1.03
26:Y2:1334:LEU:HB2	27:Z1:105:ILE:O	1.56	1.03
27:Z1:209:TYR:HB3	27:Z1:210:PRO:HD2	1.05	1.03
27:Z2:46:TYR:HE1	27:Z2:48:VAL:CG2	1.72	1.03
27:Z2:356:LEU:HD13	27:Z2:358:ARG:NH2	1.71	1.03
1:A4:827:ILE:HD13	1:A4:849:SER:CA	1.86	1.03
6:F1:1053:LEU:CD2	9:I1:1388:GLU:HG2	1.89	1.03
9:I1:909:ARG:NE	15:O1:205:ARG:HH22	1.56	1.03
9:I1:980:ILE:CD1	15:O1:172:ALA:C	2.25	1.03
9:I1:1051:LYS:HB3	14:N1:293:LYS:HE2	1.07	1.03
9:I1:1363:GLU:OE2	15:O1:267:ALA:CA	2.06	1.03
9:I2:810:GLU:OE1	15:O3:248:SER:OG	1.75	1.03
9:I2:960:SER:H	16:P3:155:GLU:HB2	0.87	1.03
24:W1:526:ARG:CB	24:W1:740:PHE:CA	2.34	1.03
25:X1:704:GLN:HE22	27:Z1:598:LEU:HD12	1.19	1.03
25:X2:658:TYR:HD2	27:Z2:549:ILE:HD13	0.90	1.03
25:X2:688:HIS:CD2	27:Z2:445:LEU:HD11	1.92	1.03
27:Z2:128:LYS:HE3	27:Z2:147:GLU:CB	1.87	1.03
27:Z2:128:LYS:HE3	27:Z2:147:GLU:HA	1.07	1.03
27:Z2:304:THR:CG2	27:Z2:313:GLU:OE1	2.07	1.03
1:A3:1221:ILE:C	1:A4:595:GLU:HG2	1.75	1.03
1:A3:1332:ARG:NH2	4:D3:903:ILE:N	2.05	1.03
6:F1:273:ALA:N	9:I1:1209:THR:N	1.73	1.03
7:G1:252:LEU:HD21	15:O2:244:GLU:CG	1.83	1.03
9:I2:923:GLY:CA	15:O3:190:ARG:NH2	2.21	1.03
9:I2:966:TRP:HB3	15:O3:178:ASP:OD1	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1050:SER:HB3	16:P3:142:LEU:HB3	1.05	1.03
9:I2:1308:THR:HB	14:N3:413:VAL:HG12	1.40	1.03
17:Q2:417:LEU:HD22	17:Q2:426:ILE:HG22	1.36	1.03
22:U1:296:LEU:HA	27:Z1:657:TYR:CA	1.88	1.03
25:X1:795:LYS:HZ3	27:Z1:666:GLU:HG2	1.17	1.03
25:X2:693:ILE:CD1	27:Z2:7:LEU:CG	2.37	1.03
25:X2:695:GLN:CG	27:Z2:431:TRP:CD2	2.41	1.03
25:X2:711:LEU:HD21	26:Y2:1309:ASP:CG	1.79	1.03
25:X2:778:LYS:CG	25:X2:794:ILE:N	2.21	1.03
25:X2:790:ASN:ND2	27:Z2:680:TRP:CZ2	2.26	1.03
27:Z1:45:TRP:NE1	27:Z1:95:TRP:HZ3	1.56	1.03
27:Z1:165:VAL:HB	27:Z1:168:LYS:HE2	1.04	1.03
27:Z1:230:SER:HB3	27:Z1:253:LEU:CD2	1.89	1.03
27:Z1:304:THR:CG2	27:Z1:313:GLU:OE1	2.07	1.03
27:Z1:451:SER:O	27:Z1:452:SER:CB	2.06	1.03
1:A2:1228:TYR:CE2	1:A1:642:ARG:NE	2.25	1.03
1:A2:1313:LYS:NZ	1:A1:728:LYS:NZ	2.04	1.03
1:A3:871:ASN:HD22	4:D1:515:ASN:ND2	1.56	1.03
4:D1:1006:ASP:HB2	1:A1:172:PRO:CB	1.89	1.03
6:F1:138:ILE:HG23	9:I1:1391:THR:CG2	1.89	1.03
7:G2:252:LEU:N	15:O4:251:ILE:HG22	1.72	1.03
9:I1:918:SER:CB	15:O1:193:ALA:N	2.21	1.03
9:I2:810:GLU:N	15:O3:244:GLU:HB2	1.37	1.03
9:I2:976:ARG:HA	14:N3:297:ALA:HA	1.35	1.03
9:I2:1157:LEU:HD23	15:O3:263:GLN:HA	1.38	1.03
9:I2:1168:ALA:HB2	15:O3:269:ILE:C	1.58	1.03
17:Q2:553:LEU:HD13	17:Q2:629:LEU:HD22	1.39	1.03
17:Q2:929:LEU:HD23	19:R2:714:TYR:CE1	1.91	1.03
25:X2:692:LYS:NZ	27:Z2:37:PHE:HZ	1.57	1.03
26:Y1:1277:LYS:HE3	27:Z1:571:ILE:N	1.74	1.03
27:Z1:24:ARG:NH2	27:Z1:440:MET:HG2	1.72	1.03
27:Z2:129:LYS:CE	27:Z2:185:LEU:HG	1.68	1.03
27:Z2:137:TYR:CG	27:Z2:215:VAL:HG12	1.85	1.03
27:Z2:199:THR:O	27:Z2:199:THR:CG2	1.99	1.03
27:Z2:325:ILE:CG2	27:Z2:350:LEU:HD13	1.86	1.03
1:A2:1328:ARG:HG2	4:D1:898:ASP:OD2	1.56	1.02
6:F1:267:GLU:OE2	11:K1:638:PRO:HD3	1.59	1.02
9:I1:917:TYR:OH	13:M1:534:GLN:C	1.97	1.02
9:I2:887:GLN:NE2	13:M3:597:LYS:HZ3	1.45	1.02
9:I2:914:ASN:CA	15:O3:194:GLU:N	2.21	1.02
17:Q2:416:ILE:HD11	17:Q2:427:THR:HB	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:684:ILE:HD12	19:R2:688:LEU:HD11	1.35	1.02
22:U1:294:VAL:CG1	27:Z1:661:GLU:OE1	2.01	1.02
24:W1:666:ASN:ND2	24:W1:716:GLU:CB	2.22	1.02
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CZ	1.94	1.02
25:X1:690:GLN:HE22	27:Z1:577:LEU:HB3	1.20	1.02
25:X1:711:LEU:HD21	26:Y1:1309:ASP:CG	1.79	1.02
25:X1:717:LYS:HB3	26:Y1:1320:LEU:HD11	1.38	1.02
25:X1:726:VAL:O	25:X1:727:SER:CA	2.04	1.02
25:X1:776:PHE:HE1	25:X1:795:LYS:CD	1.72	1.02
25:X1:811:SER:HG	27:Z1:701:LEU:HD11	1.14	1.02
25:X2:714:PHE:CZ	27:Z2:609:LEU:HD21	1.94	1.02
25:X2:774:ASN:CA	25:X2:797:LEU:CD1	2.31	1.02
25:X2:818:ILE:HD11	26:Y2:1405:GLN:HG3	1.38	1.02
26:Y2:1277:LYS:HE3	27:Z2:571:ILE:N	1.74	1.02
27:Z1:46:TYR:HE1	27:Z1:48:VAL:CG2	1.72	1.02
27:Z2:46:TYR:O	27:Z2:46:TYR:CG	2.09	1.02
27:Z2:129:LYS:HD3	27:Z2:145:LEU:HD23	1.04	1.02
27:Z2:343:VAL:CB	27:Z2:346:ASN:HD22	1.70	1.02
7:G1:252:LEU:HD22	15:O2:244:GLU:HG3	1.36	1.02
9:I1:900:ARG:CB	13:M1:580:LYS:CB	2.14	1.02
9:I1:904:GLU:H	13:M1:576:LYS:CB	1.70	1.02
9:I1:909:ARG:C	13:M1:548:LEU:CD2	2.27	1.02
9:I2:806:VAL:CG2	15:O3:247:TRP:HB3	1.88	1.02
9:I2:843:GLU:N	15:O3:191:ARG:NH2	2.08	1.02
9:I2:896:PRO:HG3	13:M3:588:MET:HB2	1.37	1.02
9:I2:960:SER:HB3	16:P3:154:ALA:H	1.23	1.02
18:R1:661:PRO:HB3	18:R1:710:LYS:HE2	1.34	1.02
25:X2:695:GLN:NE2	27:Z2:431:TRP:CD2	2.23	1.02
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:HD11	1.24	1.02
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CD1	2.42	1.02
27:Z1:94:PRO:CD	27:Z1:94:PRO:N	2.15	1.02
27:Z1:209:TYR:CZ	27:Z1:335:MET:N	2.26	1.02
27:Z1:218:LEU:HD13	27:Z1:223:LEU:HD23	1.40	1.02
27:Z2:209:TYR:HB3	27:Z2:210:PRO:HD2	1.05	1.02
1:A2:1201:ARG:HG3	1:A1:647:GLU:CB	1.90	1.02
1:A3:937:ASP:CG	9:I2:815:ILE:HG23	1.78	1.02
1:A3:1332:ARG:NH1	4:D3:899:THR:HG23	1.73	1.02
9:I1:1048:GLU:OE2	15:O1:170:LEU:N	1.92	1.02
9:I2:917:TYR:CE2	15:O3:190:ARG:CZ	2.36	1.02
9:I2:925:LEU:CD2	15:O3:186:PHE:HB2	1.90	1.02
17:Q1:222:SER:HB2	17:Q1:267:VAL:HG21	1.42	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:922:LEU:HD21	18:R1:688:LEU:CB	1.87	1.02
17:Q2:214:CYS:HB3	17:Q2:281:ARG:HD2	1.40	1.02
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CZ2	1.93	1.02
26:Y2:1366:LEU:C	26:Y2:1383:ALA:CB	2.26	1.02
27:Z1:34:ARG:HD2	27:Z1:47:ASN:ND2	1.74	1.02
27:Z1:129:LYS:HD3	27:Z1:145:LEU:HD23	1.04	1.02
27:Z1:218:LEU:HD12	27:Z1:223:LEU:HD21	1.37	1.02
27:Z1:395:LYS:CE	27:Z2:266:ARG:HG3	1.89	1.02
27:Z1:541:LYS:HB3	27:Z2:554:HIS:H	0.87	1.02
27:Z1:581:PHE:C	27:Z1:581:PHE:H	1.59	1.02
27:Z2:314:ILE:HD12	27:Z2:386:PHE:HE2	1.10	1.02
1:A3:1083:SER:O	4:D3:1096:TYR:CE1	2.12	1.02
9:I1:1667:GLN:HG2	9:I2:1669:ARG:HB3	1.39	1.02
9:I2:894:VAL:HB	13:M3:587:GLU:HG2	1.37	1.02
9:I2:911:PRO:HB3	15:O3:197:ARG:CZ	1.88	1.02
10:J1:247:ASP:CB	15:O1:276:GLY:HA3	1.84	1.02
17:Q2:922:LEU:HD11	19:R2:688:LEU:O	1.58	1.02
25:X1:645:THR:N	27:Z1:535:PHE:HE2	1.56	1.02
25:X2:774:ASN:HB3	25:X2:797:LEU:HD13	1.02	1.02
25:X2:823:LYS:HD2	27:Z1:272:ILE:HG13	1.41	1.02
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CZ2	1.93	1.02
26:Y1:1430:ASP:HB3	26:Y1:1434:PHE:CE1	1.95	1.02
26:Y2:1338:GLN:O	27:Z2:630:TRP:HH2	0.93	1.02
27:Z1:380:ILE:O	27:Z1:380:ILE:CG2	2.03	1.02
27:Z1:383:GLN:HG3	27:Z1:417:ILE:CG2	1.90	1.02
27:Z2:93:VAL:O	27:Z2:93:VAL:HG12	1.60	1.02
27:Z2:209:TYR:CD1	27:Z2:335:MET:CB	2.42	1.02
27:Z2:364:ILE:HG23	27:Z2:374:TYR:HB2	1.41	1.02
1:A3:871:ASN:ND2	4:D1:515:ASN:ND2	2.07	1.02
1:A3:1223:GLU:CG	1:A4:648:TYR:CG	2.36	1.02
1:A3:1401:VAL:CA	4:D3:873:GLN:CD	2.20	1.02
1:A4:712:THR:CG2	4:D3:969:HIS:HB3	1.90	1.02
6:F1:135:VAL:O	9:I1:1392:VAL:CG2	2.07	1.02
9:I1:908:ARG:NH2	13:M1:555:GLN:CB	2.23	1.02
9:I1:911:PRO:HG2	15:O1:202:LEU:CD1	1.72	1.02
9:I1:1316:ALA:C	15:O1:269:ILE:HD11	1.78	1.02
9:I2:960:SER:H	16:P3:155:GLU:CB	1.73	1.02
9:I2:1026:TYR:OH	13:M3:608:LYS:C	1.98	1.02
9:I2:1049:LEU:CD1	16:P3:141:ALA:C	2.28	1.02
9:I2:1103:LEU:HD12	13:M3:611:LYS:CG	1.90	1.02
19:R2:530:ILE:HA	19:R2:549:PHE:HE2	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:209:PRO:HG2	27:Z1:659:LYS:HA	1.09	1.02
22:U1:289:GLN:CD	25:X1:794:ILE:HA	1.78	1.02
24:W1:534:ASP:CG	24:W1:746:CYS:O	1.98	1.02
25:X2:815:GLU:HA	26:Y2:1402:LEU:CD2	1.90	1.02
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD22	1.37	1.02
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CD1	1.94	1.02
27:Z1:682:GLU:CD	27:Z2:650:SER:OG	1.98	1.02
27:Z2:15:ALA:C	27:Z2:15:ALA:HA	1.79	1.02
27:Z2:34:ARG:HD2	27:Z2:47:ASN:ND2	1.74	1.02
27:Z2:45:TRP:HZ2	27:Z2:95:TRP:CH2	1.49	1.02
27:Z2:297:TYR:CE2	27:Z2:321:ASP:OD2	2.11	1.02
27:Z2:434:GLN:CG	27:Z2:580:LYS:CE	2.17	1.02
1:A2:1220:PRO:HA	1:A1:596:ARG:HA	1.37	1.01
1:A2:1233:GLN:HE22	1:A1:640:LEU:HD11	1.25	1.01
1:A4:1027:HIS:CE1	4:D3:478:ALA:HB1	1.92	1.01
6:F1:141:ALA:CA	9:I1:1390:PHE:CD2	2.43	1.01
6:F1:272:GLU:C	9:I1:1209:THR:H	1.63	1.01
9:I1:912:VAL:HA	13:M1:542:ASP:OD1	1.59	1.01
9:I1:961:ARG:HD3	15:O1:186:PHE:O	1.60	1.01
9:I1:1046:HIS:HE1	15:O1:168:ALA:HA	1.22	1.01
9:I1:1050:SER:C	14:N1:293:LYS:HD3	1.81	1.01
9:I2:806:VAL:HG11	15:O3:248:SER:N	1.75	1.01
9:I2:806:VAL:CG2	15:O3:247:TRP:CB	2.38	1.01
9:I2:813:ILE:HG21	15:O3:237:PRO:O	0.85	1.01
9:I2:889:THR:H	13:M3:594:LYS:CD	1.71	1.01
9:I2:895:ARG:NH2	13:M3:589:GLY:H	1.59	1.01
9:I2:960:SER:N	16:P3:155:GLU:HB2	1.73	1.01
9:I2:1162:TYR:N	15:O3:266:GLN:NE2	2.04	1.01
9:I2:1253:GLY:N	14:N3:410:MET:N	2.06	1.01
9:I2:1254:VAL:N	14:N3:408:MET:C	2.12	1.01
17:Q1:1007:SER:HB2	17:Q1:1044:ARG:HD3	1.37	1.01
18:R1:684:ILE:HD13	18:R1:722:ALA:HA	1.39	1.01
22:U1:296:LEU:HA	27:Z1:657:TYR:N	1.75	1.01
25:X1:815:GLU:HA	26:Y1:1402:LEU:CD2	1.89	1.01
25:X2:774:ASN:CB	25:X2:797:LEU:HD12	1.82	1.01
27:Z1:541:LYS:HB2	27:Z2:550:HIS:C	1.65	1.01
27:Z1:556:GLN:O	27:Z1:560:LEU:HG	1.60	1.01
27:Z2:314:ILE:CG2	27:Z2:326:LEU:CD1	2.38	1.01
1:A2:1227:PRO:HD3	1:A1:647:GLU:HG3	1.35	1.01
1:A3:1222:ALA:O	1:A4:648:TYR:OH	1.79	1.01
9:I1:910:LYS:C	13:M1:545:GLU:CG	2.28	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:899:LEU:H	13:M3:584:GLN:CG	1.43	1.01
9:I2:961:ARG:H	16:P3:155:GLU:HB3	1.22	1.01
9:I2:976:ARG:N	14:N3:297:ALA:CA	2.13	1.01
9:I2:976:ARG:HA	14:N3:297:ALA:CA	1.80	1.01
9:I2:1026:TYR:CZ	13:M3:608:LYS:HG2	1.94	1.01
17:Q1:961:SER:HB2	17:Q1:991:LEU:HD21	1.42	1.01
22:U1:209:PRO:HG3	27:Z1:662:LEU:CB	1.89	1.01
25:X1:714:PHE:CZ	27:Z1:609:LEU:HD21	1.94	1.01
25:X2:704:GLN:HE22	27:Z2:598:LEU:HD12	1.19	1.01
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CD1	2.42	1.01
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:CG1	2.23	1.01
26:Y2:1365:ILE:CB	26:Y2:1383:ALA:O	2.06	1.01
27:Z1:209:TYR:CE1	27:Z1:335:MET:CA	2.44	1.01
27:Z1:297:TYR:CE2	27:Z1:321:ASP:OD2	2.12	1.01
27:Z2:197:LEU:C	27:Z2:198:ASN:CA	2.27	1.01
27:Z2:230:SER:HB3	27:Z2:253:LEU:CD2	1.89	1.01
6:F1:141:ALA:HA	9:I1:1390:PHE:CD2	1.94	1.01
6:F1:158:PRO:HG3	9:I1:1340:LEU:N	1.71	1.01
6:F1:160:SER:N	9:I1:1338:PHE:CG	2.24	1.01
9:I2:813:ILE:CG2	15:O3:241:SER:CB	2.28	1.01
9:I2:976:ARG:HB2	14:N3:297:ALA:HB1	1.41	1.01
9:I2:1049:LEU:HB3	14:N3:293:LYS:N	1.73	1.01
9:I2:1049:LEU:CD2	14:N3:292:ARG:O	2.06	1.01
9:I2:1050:SER:CB	16:P3:142:LEU:HB3	1.89	1.01
9:I2:1102:GLN:H	15:O3:272:SER:HB2	0.91	1.01
17:Q1:1066:PHE:HB3	17:Q1:1144:LYS:HE3	1.05	1.01
19:R2:627:THR:HG21	19:R2:663:LEU:HD13	1.38	1.01
25:X2:778:LYS:HE3	25:X2:791:ILE:CG2	1.90	1.01
25:X2:823:LYS:HB3	27:Z1:259:LEU:HD21	1.39	1.01
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CD1	1.94	1.01
26:Y2:1368:LEU:H	26:Y2:1383:ALA:HB2	0.86	1.01
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:HG12	1.23	1.01
27:Z1:197:LEU:C	27:Z1:198:ASN:CA	2.27	1.01
27:Z1:199:THR:O	27:Z1:199:THR:HG22	1.22	1.01
27:Z1:209:TYR:CD1	27:Z1:335:MET:CB	2.42	1.01
27:Z2:424:PRO:HG3	27:Z2:439:LEU:HD21	1.37	1.01
9:I2:965:ALA:HB1	15:O3:182:THR:HG23	1.38	1.01
9:I2:1035:GLN:HB3	16:P3:147:LEU:HB3	1.43	1.01
17:Q2:1066:PHE:HB3	17:Q2:1144:LYS:HE3	1.05	1.01
22:U1:296:LEU:CB	27:Z1:657:TYR:H	1.73	1.01
25:X1:665:TRP:CH2	25:X1:669:LEU:HD11	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:751:LEU:CD1	27:Z2:638:ILE:HD13	1.86	1.01
26:Y1:1436:VAL:CG2	27:Z1:228:ASN:OD1	2.08	1.01
26:Y2:1124:THR:O	26:Y2:1126:LEU:HD12	1.61	1.01
26:Y2:1211:LEU:C	26:Y2:1215:GLU:CD	2.19	1.01
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:O	1.60	1.01
27:Z2:164:ILE:HD13	27:Z2:277:ARG:NH1	1.74	1.01
1:A2:1228:TYR:CE2	1:A1:642:ARG:CZ	2.42	1.01
1:A2:1328:ARG:HD3	4:D1:976:ARG:CZ	1.90	1.01
6:F1:1392:LEU:CD2	15:O2:259:ASP:CG	2.22	1.01
9:I2:899:LEU:CD1	13:M3:585:LEU:N	1.95	1.01
9:I2:911:PRO:CB	15:O3:197:ARG:HE	1.58	1.01
9:I2:925:LEU:HD11	15:O3:186:PHE:HB2	1.28	1.01
9:I2:977:ASN:O	15:O3:174:LEU:CB	2.07	1.01
9:I2:1026:TYR:CD1	13:M3:612:PRO:HG3	1.88	1.01
13:M3:469:GLU:CD	13:M4:536:GLU:OE1	1.98	1.01
17:Q1:598:ILE:HB	17:Q1:636:ILE:HD13	1.43	1.01
24:W1:523:ASP:CA	24:W1:736:ASN:O	2.09	1.01
25:X2:685:MET:HG3	27:Z2:445:LEU:O	1.61	1.01
25:X2:694:ASP:HB2	27:Z2:431:TRP:HB2	1.42	1.01
26:Y1:1306:ILE:O	26:Y1:1310:VAL:HG23	1.61	1.01
26:Y1:1455:ASN:C	26:Y1:1455:ASN:CB	2.28	1.01
26:Y2:1336:THR:HB	27:Z1:92:GLU:OE1	1.61	1.01
27:Z1:24:ARG:O	27:Z1:24:ARG:HG3	1.24	1.01
27:Z1:389:TRP:CZ2	27:Z1:410:PHE:CE1	2.48	1.01
27:Z1:544:THR:CB	27:Z2:558:PHE:HB2	1.90	1.01
27:Z2:179:VAL:CG2	27:Z2:206:PHE:HD2	1.70	1.01
27:Z2:190:ASP:N	27:Z2:311:GLN:OE1	1.94	1.01
27:Z2:366:LEU:HD23	27:Z2:374:TYR:CE2	1.96	1.01
1:A3:1327:VAL:O	4:D3:876:SER:HB2	1.60	1.00
6:F1:153:LEU:HD23	9:I1:1395:LEU:CD2	1.90	1.00
6:F1:161:ALA:H	9:I1:1335:LYS:HA	0.91	1.00
7:G2:252:LEU:HB2	15:O4:251:ILE:HB	1.42	1.00
9:I1:911:PRO:HG3	15:O1:202:LEU:HD12	1.25	1.00
9:I1:911:PRO:C	13:M1:541:LEU:HD23	1.81	1.00
9:I1:1048:GLU:CG	14:N1:293:LYS:HE3	1.90	1.00
9:I2:1049:LEU:CG	14:N3:292:ARG:O	2.09	1.00
9:I2:1253:GLY:CA	14:N3:409:ALA:N	2.24	1.00
9:I2:1254:VAL:HG22	14:N3:408:MET:O	1.61	1.00
17:Q2:210:LEU:HD12	17:Q2:270:LEU:HD12	1.42	1.00
17:Q2:922:LEU:HD22	19:R2:688:LEU:HB2	1.38	1.00
22:U1:297:LEU:N	27:Z1:653:GLN:O	1.93	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:815:GLU:HG2	26:Y2:1402:LEU:HD23	1.37	1.00
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:CG1	2.23	1.00
26:Y1:1403:ARG:HH21	27:Z1:700:GLU:C	1.64	1.00
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:CA	1.50	1.00
26:Y2:1436:VAL:CG2	27:Z2:228:ASN:OD1	2.08	1.00
27:Z1:294:LEU:HD21	27:Z1:353:ARG:HH21	0.97	1.00
27:Z1:343:VAL:HB	27:Z1:346:ASN:ND2	1.70	1.00
27:Z1:401:ASP:OD1	27:Z2:261:GLU:N	1.66	1.00
27:Z2:137:TYR:HD2	27:Z2:215:VAL:C	1.47	1.00
27:Z2:361:LYS:HZ1	27:Z2:378:ASP:HB2	1.24	1.00
1:A2:1226:LEU:HD22	1:A1:647:GLU:HG2	1.43	1.00
1:A3:1090:SER:O	4:D3:1100:PRO:CG	2.10	1.00
9:I1:917:TYR:HD1	13:M1:534:GLN:CD	1.47	1.00
9:I1:1606:GLU:OE2	9:I2:1669:ARG:HD3	1.57	1.00
9:I2:887:GLN:HE22	13:M3:597:LYS:NZ	1.49	1.00
9:I2:889:THR:N	13:M3:594:LYS:HD2	1.75	1.00
9:I2:1048:GLU:OE2	14:N3:293:LYS:HB2	1.53	1.00
17:Q1:383:LEU:CA	17:Q1:508:ASN:HA	1.91	1.00
22:U1:193:ILE:HG13	27:Z1:664:ARG:HD2	1.40	1.00
25:X2:665:TRP:CH2	25:X2:669:LEU:HD11	1.95	1.00
25:X2:693:ILE:HD12	27:Z2:7:LEU:HD12	1.03	1.00
25:X2:774:ASN:N	25:X2:797:LEU:HD11	1.75	1.00
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:H	1.22	1.00
26:Y2:1306:ILE:O	26:Y2:1310:VAL:HG23	1.61	1.00
27:Z1:35:ILE:CG1	27:Z1:46:TYR:CZ	2.45	1.00
27:Z1:129:LYS:CE	27:Z1:185:LEU:HG	1.68	1.00
27:Z1:164:ILE:HD13	27:Z1:277:ARG:NH1	1.73	1.00
27:Z1:241:THR:HG22	27:Z1:246:LYS:HG3	1.39	1.00
27:Z1:314:ILE:CG2	27:Z1:326:LEU:CD1	2.38	1.00
27:Z1:364:ILE:HG23	27:Z1:374:TYR:HB2	1.41	1.00
27:Z1:366:LEU:HD23	27:Z1:374:TYR:CE2	1.96	1.00
27:Z2:135:LYS:O	27:Z2:217:LEU:HG	1.61	1.00
9:I2:806:VAL:HG11	15:O3:247:TRP:C	1.80	1.00
9:I2:902:GLN:O	13:M3:577:LEU:HA	1.62	1.00
9:I2:1103:LEU:HD22	13:M3:614:ASP:CB	1.91	1.00
9:I2:1103:LEU:CD2	15:O3:275:LEU:HD23	1.91	1.00
9:I2:1108:PRO:O	15:O3:281:ALA:CB	2.09	1.00
17:Q2:598:ILE:HB	17:Q2:636:ILE:HD13	1.43	1.00
22:U1:192:ILE:HA	27:Z1:664:ARG:CG	1.90	1.00
22:U1:296:LEU:CB	27:Z1:657:TYR:N	2.25	1.00
25:X1:690:GLN:NE2	27:Z1:581:PHE:CZ	2.06	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:778:LYS:HD2	25:X2:795:LYS:HB3	1.41	1.00
27:Z1:46:TYR:O	27:Z1:46:TYR:CG	2.09	1.00
27:Z1:135:LYS:O	27:Z1:217:LEU:HG	1.61	1.00
27:Z2:93:VAL:O	27:Z2:93:VAL:CG1	2.07	1.00
27:Z2:137:TYR:HB3	27:Z2:269:LYS:CD	1.77	1.00
27:Z2:165:VAL:HB	27:Z2:168:LYS:HE2	1.04	1.00
27:Z2:669:THR:HG23	27:Z2:680:TRP:CZ2	1.95	1.00
6:F1:1267:ARG:HB2	15:O2:254:ARG:CD	1.90	1.00
9:I1:910:LYS:O	13:M1:545:GLU:HG2	1.62	1.00
9:I1:1315:GLN:O	15:O1:269:ILE:CD1	2.10	1.00
9:I2:809:HIS:NE2	15:O3:243:LEU:HB2	1.76	1.00
26:Y2:1366:LEU:C	26:Y2:1383:ALA:HB3	1.77	1.00
26:Y2:1385:LEU:HD11	27:Z2:683:LEU:CD2	1.88	1.00
27:Z1:12:ILE:CG2	27:Z1:37:PHE:CE2	2.18	1.00
27:Z2:556:GLN:O	27:Z2:560:LEU:HG	1.60	1.00
1:A4:715:GLU:HB2	4:D3:973:GLN:HE22	1.25	1.00
6:F1:138:ILE:HG12	9:I1:1388:GLU:O	1.61	1.00
9:I1:967:SER:OG	15:O1:178:ASP:CA	2.00	1.00
9:I2:899:LEU:N	13:M3:584:GLN:CG	2.21	1.00
26:Y2:1403:ARG:HH21	27:Z2:700:GLU:C	1.64	1.00
27:Z1:401:ASP:OD2	27:Z2:263:TRP:N	1.81	1.00
27:Z2:209:TYR:CE1	27:Z2:335:MET:CA	2.44	1.00
27:Z2:213:PRO:HG2	27:Z2:216:LEU:HD23	1.43	1.00
27:Z2:389:TRP:CZ2	27:Z2:410:PHE:CE1	2.48	1.00
1:A2:1229:VAL:HG21	1:A1:640:LEU:HA	1.02	1.00
7:G1:251:TYR:CE1	15:O2:248:SER:HB3	1.96	1.00
7:G1:255:LEU:CA	15:O2:246:LEU:H	1.47	1.00
9:I1:911:PRO:HB2	13:M1:541:LEU:HD21	1.44	1.00
17:Q2:659:PRO:HB2	17:Q2:661:GLN:HG2	1.44	1.00
22:U1:289:GLN:CD	25:X1:794:ILE:CB	2.30	1.00
27:Z1:300:THR:O	27:Z1:301:ASN:OD1	1.78	1.00
1:A4:127:HIS:H	4:D3:1010:ALA:CB	1.75	1.00
9:I1:838:GLU:O	15:O1:198:ARG:NH2	1.92	1.00
9:I1:1048:GLU:OE2	15:O1:170:LEU:HB2	1.61	1.00
18:R1:402:GLY:HA2	18:R1:444:ALA:HB2	1.02	1.00
22:U1:209:PRO:HA	27:Z1:663:THR:OG1	1.62	1.00
25:X1:704:GLN:NE2	27:Z1:598:LEU:HD12	1.77	1.00
25:X2:695:GLN:CG	27:Z2:431:TRP:CE3	2.44	1.00
25:X2:717:LYS:NZ	27:Z1:49:LEU:O	1.95	1.00
26:Y1:1449:ILE:CG2	26:Y1:1453:PHE:HE2	1.72	1.00
27:Z1:149:ASP:CG	27:Z1:182:ILE:CG2	2.31	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:541:LYS:HA	27:Z2:555:GLU:N	1.77	1.00
27:Z1:587:LYS:O	27:Z1:591:GLN:HG2	1.62	1.00
27:Z2:287:ILE:HD13	27:Z2:348:LEU:CD1	1.92	1.00
1:A2:1269:ALA:O	1:A1:731:ILE:HB	1.61	0.99
6:F2:139:GLN:NE2	9:I2:1337:ALA:HA	1.76	0.99
9:I1:917:TYR:CE2	13:M1:534:GLN:O	2.15	0.99
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CG	2.04	0.99
9:I2:1168:ALA:CA	15:O3:270:THR:HA	1.92	0.99
25:X2:693:ILE:HB	27:Z2:7:LEU:CD2	1.92	0.99
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CG1	2.44	0.99
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:HD2	1.39	0.99
27:Z1:45:TRP:CH2	27:Z1:95:TRP:CH2	2.50	0.99
9:I1:1315:GLN:O	15:O1:269:ILE:HG13	1.61	0.99
9:I2:806:VAL:HG12	15:O3:248:SER:H	1.27	0.99
9:I2:895:ARG:NH2	13:M3:589:GLY:HA3	1.77	0.99
9:I2:976:ARG:CZ	14:N3:293:LYS:CG	2.15	0.99
17:Q1:468:LEU:HD22	17:Q1:474:VAL:HG22	1.43	0.99
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CG	1.88	0.99
27:Z2:149:ASP:CG	27:Z2:182:ILE:CG2	2.31	0.99
9:I1:908:ARG:HH22	13:M1:555:GLN:CB	1.75	0.99
17:Q1:659:PRO:HB2	17:Q1:661:GLN:HG2	1.44	0.99
17:Q1:1012:GLU:HG2	17:Q1:1057:LEU:HD22	1.42	0.99
25:X1:750:THR:HG22	25:X1:754:ASN:ND2	1.78	0.99
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:CA	2.40	0.99
26:Y2:1340:ARG:HH21	27:Z1:157:LEU:HD22	1.20	0.99
27:Z1:135:LYS:O	27:Z1:217:LEU:CG	2.10	0.99
27:Z2:282:GLN:HG3	27:Z2:342:TYR:O	1.62	0.99
9:I1:965:ALA:HB2	15:O1:185:ALA:N	1.75	0.99
9:I1:966:TRP:CZ3	15:O1:179:LEU:HB3	1.69	0.99
9:I1:966:TRP:NE1	15:O1:183:VAL:HG12	1.77	0.99
9:I2:1164:ALA:O	15:O3:270:THR:OG1	1.79	0.99
25:X1:790:ASN:CB	27:Z1:669:THR:C	2.30	0.99
25:X1:799:SER:HB3	26:Y1:1372:LYS:CA	1.92	0.99
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:HZ3	1.21	0.99
26:Y2:1332:LYS:CG	27:Z1:97:TYR:CB	2.28	0.99
27:Z1:241:THR:CG2	27:Z1:246:LYS:CG	2.40	0.99
27:Z1:541:LYS:HA	27:Z2:555:GLU:H	1.25	0.99
27:Z2:135:LYS:O	27:Z2:217:LEU:CG	2.10	0.99
1:A3:1399:ARG:HD2	4:D3:866:PHE:HD1	1.22	0.99
7:G1:255:LEU:HD22	15:O2:244:GLU:CA	1.88	0.99
9:I1:980:ILE:CD1	15:O1:172:ALA:CA	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:977:ASN:O	15:O3:174:LEU:O	1.79	0.99
25:X1:815:GLU:HG2	26:Y1:1402:LEU:HD23	1.37	0.99
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CD1	1.76	0.99
25:X2:777:ASN:C	25:X2:789:GLU:O	1.87	0.99
27:Z2:45:TRP:CH2	27:Z2:95:TRP:CH2	2.51	0.99
6:F1:1265:GLN:HB2	15:O2:252:VAL:HG23	1.03	0.99
9:I1:922:ASP:HB3	15:O1:191:ARG:HB2	1.44	0.99
9:I2:925:LEU:HD21	15:O3:186:PHE:HB2	1.45	0.99
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CD1	1.76	0.99
25:X2:692:LYS:N	27:Z2:431:TRP:CE2	2.04	0.99
25:X2:695:GLN:HG2	27:Z2:430:ASN:O	1.62	0.99
25:X2:750:THR:HG22	25:X2:754:ASN:ND2	1.78	0.99
27:Z1:642:ASN:HD21	27:Z1:646:HIS:CE1	1.81	0.99
27:Z2:125:SER:HA	27:Z2:147:GLU:OE1	1.58	0.99
27:Z2:137:TYR:CD1	27:Z2:215:VAL:HG11	1.95	0.99
1:A1:827:ILE:HG12	1:A1:849:SER:HA	1.45	0.99
6:F1:138:ILE:HG23	9:I1:1391:THR:CB	1.93	0.99
9:I1:1051:LYS:HZ1	14:N1:290:VAL:HA	0.97	0.99
9:I2:1106:LYS:HB2	15:O3:275:LEU:CD1	1.86	0.99
17:Q1:700:GLU:HB3	17:Q1:758:ILE:HG12	1.44	0.99
17:Q2:907:THR:HG22	17:Q2:923:HIS:HB2	1.44	0.99
25:X2:721:LEU:HD13	27:Z2:612:ILE:HD11	1.41	0.99
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:H	1.75	0.99
26:Y1:1429:LYS:CE	26:Y1:1434:PHE:CZ	2.44	0.99
27:Z1:74:SER:OG	27:Z1:74:SER:O	1.75	0.99
27:Z1:544:THR:HA	27:Z2:558:PHE:HD2	1.07	0.99
27:Z2:199:THR:O	27:Z2:199:THR:HG22	1.22	0.99
27:Z2:434:GLN:HB3	27:Z2:580:LYS:HZ2	1.28	0.99
9:I2:1106:LYS:HB3	15:O3:275:LEU:HD12	1.01	0.99
10:J1:252:LEU:HD13	15:O1:273:ASP:CG	1.83	0.99
17:Q1:711:ASN:HA	17:Q1:715:LEU:HD13	1.41	0.99
17:Q2:852:ILE:HD11	17:Q2:913:LYS:CE	1.92	0.99
25:X1:818:ILE:HD11	26:Y1:1405:GLN:HG3	1.38	0.99
27:Z1:27:PHE:CE2	27:Z1:36:VAL:HG22	1.91	0.99
27:Z2:35:ILE:CG1	27:Z2:46:TYR:CZ	2.45	0.99
27:Z2:587:LYS:O	27:Z2:591:GLN:HG2	1.62	0.99
9:I1:906:GLY:HA2	13:M1:572:GLU:HG3	1.00	0.99
9:I1:908:ARG:HG3	15:O1:209:LEU:HD11	1.37	0.99
9:I2:1050:SER:HB3	16:P3:142:LEU:CB	1.93	0.99
9:I2:1103:LEU:HB3	13:M3:614:ASP:HB2	1.40	0.99
17:Q1:416:ILE:HD11	17:Q1:427:THR:HB	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:296:LEU:HD13	27:Z1:656:SER:C	1.46	0.99
24:W1:526:ARG:HB2	24:W1:740:PHE:HA	1.41	0.99
25:X2:695:GLN:CB	27:Z2:48:VAL:HG13	1.90	0.99
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:CB	2.24	0.99
27:Z1:93:VAL:O	27:Z1:93:VAL:CG1	2.07	0.99
27:Z1:217:LEU:HD23	27:Z1:269:LYS:HG2	1.44	0.99
27:Z2:27:PHE:CE2	27:Z2:36:VAL:HG22	1.91	0.99
27:Z2:241:THR:CG2	27:Z2:246:LYS:CG	2.40	0.99
27:Z2:287:ILE:CD1	27:Z2:348:LEU:CD1	2.41	0.99
27:Z2:387:MET:HE1	27:Z2:391:SER:CB	1.91	0.99
9:I2:976:ARG:HA	14:N3:296:GLY:C	1.83	0.99
9:I2:1162:TYR:H	15:O3:266:GLN:NE2	1.58	0.99
19:R2:614:PRO:HA	19:R2:617:ILE:HG22	1.43	0.99
25:X2:704:GLN:NE2	27:Z2:598:LEU:HD12	1.76	0.99
25:X2:775:THR:CB	25:X2:794:ILE:HD13	1.91	0.99
27:Z2:300:THR:O	27:Z2:301:ASN:OD1	1.78	0.99
1:A4:827:ILE:HG12	1:A4:849:SER:HA	1.45	0.98
9:I2:809:HIS:CD2	15:O3:244:GLU:N	2.31	0.98
17:Q2:711:ASN:HA	17:Q2:715:LEU:HD13	1.41	0.98
25:X1:765:LEU:CD2	27:Z1:652:GLN:CD	2.16	0.98
25:X2:645:THR:N	27:Z2:535:PHE:CE2	2.32	0.98
27:Z1:158:ASN:ND2	27:Z1:161:GLU:OE2	1.95	0.98
27:Z1:218:LEU:HD13	27:Z1:223:LEU:CD2	1.93	0.98
17:Q1:754:ASN:HA	17:Q1:757:LYS:HE2	1.45	0.98
27:Z1:24:ARG:HE	27:Z1:440:MET:HB3	1.20	0.98
27:Z1:287:ILE:CD1	27:Z1:348:LEU:CD1	2.41	0.98
27:Z2:158:ASN:ND2	27:Z2:161:GLU:OE2	1.96	0.98
27:Z2:643:SER:N	27:Z2:643:SER:CA	2.27	0.98
1:A3:1222:ALA:CB	1:A4:598:VAL:H	1.74	0.98
1:A3:1401:VAL:CA	4:D3:873:GLN:NE2	2.26	0.98
9:I1:899:LEU:O	13:M1:576:LYS:CA	2.12	0.98
9:I2:921:GLU:OE1	16:P3:157:GLU:OE2	1.79	0.98
9:I2:977:ASN:H	15:O3:174:LEU:HD23	0.98	0.98
9:I2:1099:ARG:HD2	15:O3:271:GLU:OE2	1.62	0.98
17:Q2:222:SER:HB2	17:Q2:267:VAL:HG21	1.42	0.98
18:R1:614:PRO:HA	18:R1:617:ILE:HG22	1.43	0.98
25:X2:775:THR:OG1	25:X2:794:ILE:HD12	1.63	0.98
26:Y2:1448:GLN:O	26:Y2:1452:PHE:CD2	2.16	0.98
27:Z1:287:ILE:HD13	27:Z1:348:LEU:CD1	1.91	0.98
27:Z1:325:ILE:HG23	27:Z1:350:LEU:HD11	0.99	0.98
6:F2:140:GLU:HG2	9:I2:1393:GLY:H	1.16	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1246:ILE:HG12	15:O1:255:GLY:CA	1.79	0.98
9:I2:916:ALA:CA	15:O3:189:ARG:O	2.10	0.98
9:I2:967:SER:O	16:P3:145:SER:O	1.82	0.98
18:R1:435:PHE:CD2	18:R1:448:ILE:CD1	2.28	0.98
25:X2:638:ASP:N	27:Z2:528:PHE:CZ	2.31	0.98
25:X2:717:LYS:HE2	26:Y2:1320:LEU:HD11	1.00	0.98
27:Z1:125:SER:HA	27:Z1:147:GLU:OE1	1.58	0.98
27:Z1:190:ASP:N	27:Z1:311:GLN:OE1	1.95	0.98
27:Z1:343:VAL:C	27:Z1:346:ASN:ND2	2.17	0.98
27:Z1:539:ILE:C	27:Z2:551:ASN:HB3	1.83	0.98
27:Z2:129:LYS:HE3	27:Z2:185:LEU:CG	1.76	0.98
9:I1:911:PRO:HG3	15:O1:202:LEU:CG	1.93	0.98
9:I2:892:HIS:CD2	13:M3:591:ASP:O	2.10	0.98
9:I2:1246:ILE:HD11	14:N3:408:MET:HA	1.44	0.98
25:X1:789:GLU:CG	27:Z1:680:TRP:NE1	2.26	0.98
25:X2:693:ILE:CD1	27:Z2:7:LEU:HG	1.93	0.98
25:X2:694:ASP:CB	27:Z2:431:TRP:CB	2.41	0.98
26:Y2:1443:MET:SD	27:Z2:332:GLU:OE1	2.21	0.98
27:Z1:137:TYR:CD1	27:Z1:215:VAL:HG11	1.95	0.98
27:Z2:188:SER:OG	27:Z2:195:TYR:HE2	1.45	0.98
1:A2:1237:LEU:CD1	1:A1:588:SER:CB	2.37	0.98
1:A4:623:SER:OG	4:D3:977:GLU:N	1.96	0.98
9:I2:1168:ALA:HB1	15:O3:269:ILE:C	1.81	0.98
17:Q1:703:THR:HG21	17:Q1:709:PHE:CG	1.99	0.98
17:Q2:468:LEU:HD22	17:Q2:474:VAL:HG22	1.43	0.98
17:Q2:961:SER:HB2	17:Q2:991:LEU:HD21	1.42	0.98
25:X1:725:VAL:HG21	27:Z1:612:ILE:HG23	1.42	0.98
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CD2	2.16	0.98
1:A3:1327:VAL:O	4:D3:876:SER:CB	2.12	0.98
1:A3:1400:SER:OG	4:D3:869:THR:C	2.00	0.98
9:I2:891:LEU:CD2	13:M3:590:LYS:HE3	1.94	0.98
9:I2:1307:LEU:HB2	14:N3:414:ALA:O	0.80	0.98
17:Q1:867:GLN:HG3	17:Q1:869:ASP:H	1.25	0.98
19:R2:581:LEU:HD12	19:R2:584:ILE:HD12	1.44	0.98
22:U1:289:GLN:HA	26:Y1:1372:LYS:O	1.64	0.98
25:X2:686:ALA:C	27:Z2:8:SER:OG	2.01	0.98
26:Y1:1443:MET:SD	27:Z1:332:GLU:OE1	2.21	0.98
26:Y2:1449:ILE:CG2	26:Y2:1453:PHE:HE2	1.72	0.98
27:Z2:668:GLU:O	27:Z2:668:GLU:HB2	1.62	0.98
1:A2:1204:TRP:CD1	1:A1:599:ARG:HA	1.97	0.98
1:A2:1284:ASN:ND2	1:A1:635:ARG:HD3	1.79	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:981:VAL:HG12	15:O1:176:ARG:HG3	1.41	0.98
17:Q2:1012:GLU:HG2	17:Q2:1057:LEU:HD22	1.42	0.98
18:R1:435:PHE:HB3	18:R1:448:ILE:HG13	1.45	0.98
22:U1:245:ILE:HG13	27:Z1:657:TYR:CE1	1.98	0.98
24:W1:526:ARG:HB3	24:W1:740:PHE:CB	1.94	0.98
25:X1:755:LEU:CD1	26:Y1:1349:LEU:HD11	1.94	0.98
26:Y1:1448:GLN:O	26:Y1:1452:PHE:CD2	2.16	0.98
27:Z1:294:LEU:CD2	27:Z1:353:ARG:HH21	1.73	0.98
27:Z2:26:ILE:CG2	27:Z2:440:MET:SD	2.52	0.98
27:Z2:449:ASN:HD21	27:Z2:576:ASP:HB2	1.27	0.98
9:I1:1315:GLN:CG	15:O1:266:GLN:O	2.12	0.98
9:I2:809:HIS:NE2	15:O3:243:LEU:CB	2.25	0.98
9:I2:891:LEU:HD21	13:M3:590:LYS:HE3	1.00	0.98
9:I2:1099:ARG:O	15:O3:272:SER:HB3	1.62	0.98
17:Q1:382:ARG:HH11	17:Q1:512:ILE:C	1.67	0.98
17:Q1:922:LEU:CD2	18:R1:688:LEU:HB3	1.93	0.98
25:X2:688:HIS:CD2	27:Z2:445:LEU:CD1	2.45	0.98
25:X2:778:LYS:HD3	25:X2:795:LYS:HB3	1.33	0.98
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:HD12	1.26	0.98
26:Y2:1317:TYR:O	27:Z1:48:VAL:O	1.82	0.98
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:CD	2.33	0.98
26:Y2:1367:LYS:H	26:Y2:1383:ALA:HB1	1.27	0.98
27:Z1:129:LYS:CE	27:Z1:185:LEU:CB	2.37	0.98
1:A2:1201:ARG:CG	1:A1:647:GLU:HB3	1.94	0.98
9:I1:966:TRP:C	15:O1:181:HIS:HB2	1.83	0.98
9:I2:1026:TYR:HD1	13:M3:612:PRO:CG	1.73	0.98
17:Q1:60:VAL:HG21	17:Q1:63:GLU:HG3	1.46	0.98
18:R1:530:ILE:HG13	18:R1:549:PHE:CD2	1.98	0.98
25:X2:717:LYS:HZ2	27:Z1:49:LEU:HG	1.29	0.98
26:Y2:1295:VAL:CA	27:Z2:588:TRP:CZ3	2.47	0.98
27:Z1:678:ASN:O	27:Z1:678:ASN:CA	2.11	0.98
27:Z2:387:MET:HE3	27:Z2:391:SER:HB3	1.00	0.98
27:Z2:416:ASP:HB3	27:Z2:569:LYS:NZ	1.77	0.98
1:A3:1091:VAL:N	4:D3:1100:PRO:HB2	1.40	0.97
9:I1:916:ALA:C	13:M1:534:GLN:NE2	2.18	0.97
9:I2:895:ARG:HB3	13:M3:588:MET:N	1.76	0.97
9:I2:1049:LEU:HD12	16:P3:141:ALA:O	1.62	0.97
22:U1:296:LEU:HD13	27:Z1:657:TYR:N	1.75	0.97
25:X1:714:PHE:HZ	26:Y1:1316:GLU:HG3	0.97	0.97
25:X1:789:GLU:CG	27:Z1:680:TRP:CG	2.47	0.97
27:Z1:282:GLN:HG3	27:Z1:342:TYR:O	1.62	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:544:THR:CG2	27:Z2:558:PHE:N	2.26	0.97
27:Z1:611:GLN:O	27:Z1:612:ILE:CA	2.12	0.97
1:A4:132:ASP:OD1	4:D3:1002:ALA:CB	2.12	0.97
1:A4:172:PRO:HB3	4:D3:991:ASP:OD2	1.60	0.97
6:F1:153:LEU:O	9:I1:1395:LEU:HD13	1.64	0.97
9:I2:806:VAL:CG1	15:O3:248:SER:H	1.76	0.97
9:I2:806:VAL:HG22	15:O3:247:TRP:CG	1.98	0.97
9:I2:981:VAL:CG2	15:O3:171:ASP:O	2.11	0.97
9:I2:1031:ALA:HB1	13:M3:621:ARG:HH12	1.21	0.97
9:I2:1308:THR:OG1	14:N3:413:VAL:HG12	1.63	0.97
19:R2:530:ILE:HG13	19:R2:549:PHE:CD2	1.98	0.97
25:X2:725:VAL:HG21	27:Z2:612:ILE:HG23	1.42	0.97
26:Y1:1392:ARG:HH12	27:Z1:690:ASP:HA	0.98	0.97
27:Z1:531:ILE:CD1	27:Z2:541:LYS:HD3	1.92	0.97
27:Z1:643:SER:N	27:Z1:643:SER:CA	2.26	0.97
27:Z2:12:ILE:CG2	27:Z2:37:PHE:CE2	2.18	0.97
27:Z2:449:ASN:ND2	27:Z2:576:ASP:CB	2.27	0.97
9:I1:908:ARG:CD	13:M1:552:TYR:H	1.77	0.97
9:I2:895:ARG:CG	13:M3:584:GLN:C	2.31	0.97
9:I2:919:ALA:HB2	16:P3:157:GLU:CA	1.79	0.97
9:I2:964:SER:CB	16:P3:152:LYS:HB2	1.93	0.97
9:I2:1106:LYS:HB3	15:O3:275:LEU:CD1	1.92	0.97
25:X1:778:LYS:O	25:X1:778:LYS:CG	2.11	0.97
25:X2:680:TYR:OH	27:Z2:420:ILE:HG22	1.63	0.97
9:I1:918:SER:HB2	15:O1:193:ALA:N	1.78	0.97
9:I2:1049:LEU:N	16:P3:141:ALA:CB	2.14	0.97
17:Q2:703:THR:HG21	17:Q2:709:PHE:CG	1.99	0.97
25:X1:638:ASP:OD1	25:X1:639:ASP:N	1.96	0.97
26:Y2:1431:MET:SD	26:Y2:1434:PHE:CD2	2.57	0.97
27:Z1:24:ARG:O	27:Z1:24:ARG:CG	2.07	0.97
27:Z1:314:ILE:HD12	27:Z1:386:PHE:HE2	1.10	0.97
27:Z1:404:PRO:HD3	27:Z2:262:ASN:HB3	1.43	0.97
27:Z2:642:ASN:HD21	27:Z2:646:HIS:CE1	1.81	0.97
6:F2:140:GLU:HG2	9:I2:1393:GLY:N	1.50	0.97
9:I2:896:PRO:HG3	13:M3:588:MET:HE2	0.99	0.97
9:I2:914:ASN:CG	15:O3:194:GLU:CB	2.25	0.97
9:I2:923:GLY:HA3	15:O3:190:ARG:HH21	0.83	0.97
9:I2:964:SER:N	16:P3:152:LYS:HG3	1.77	0.97
17:Q1:538:ILE:HD13	17:Q1:567:PHE:CE1	2.00	0.97
17:Q2:754:ASN:HA	17:Q2:757:LYS:HE2	1.45	0.97
17:Q2:874:PHE:CD1	19:R2:726:ASN:CG	2.38	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:694:ASP:O	27:Z2:432:ASN:CA	2.05	0.97
25:X2:778:LYS:CA	25:X2:794:ILE:H	1.77	0.97
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:HG12	1.64	0.97
26:Y2:1294:LYS:CE	27:Z2:588:TRP:HD1	1.54	0.97
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:C	1.83	0.97
27:Z1:284:PRO:N	27:Z1:284:PRO:CD	2.28	0.97
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CG	1.95	0.97
6:F1:1265:GLN:HA	15:O2:252:VAL:HA	1.44	0.97
6:F2:158:PRO:CB	9:I2:1337:ALA:CB	2.40	0.97
9:I1:1051:LYS:HE2	14:N1:289:PHE:CG	1.97	0.97
9:I2:1027:ALA:C	13:M3:612:PRO:C	2.22	0.97
26:Y1:1431:MET:SD	26:Y1:1434:PHE:CD2	2.57	0.97
27:Z1:137:TYR:HD2	27:Z1:215:VAL:C	1.47	0.97
27:Z2:26:ILE:HG21	27:Z2:440:MET:HE3	1.47	0.97
1:A4:520:GLU:HG3	4:D3:1017:THR:HG23	1.46	0.97
9:I2:1103:LEU:O	13:M3:615:PRO:CD	2.12	0.97
9:I2:1255:HIS:CD2	14:N3:407:ALA:CB	0.92	0.97
17:Q2:929:LEU:HD11	19:R2:695:ALA:HB2	1.46	0.97
22:U1:243:PHE:HD2	27:Z1:657:TYR:CA	1.75	0.97
26:Y1:1401:LEU:O	26:Y1:1405:GLN:HG2	1.64	0.97
26:Y2:1368:LEU:CB	26:Y2:1382:VAL:O	2.12	0.97
26:Y2:1401:LEU:O	26:Y2:1405:GLN:HG2	1.65	0.97
27:Z1:544:THR:HB	27:Z2:554:HIS:ND1	1.80	0.97
27:Z2:218:LEU:HD13	27:Z2:223:LEU:CD2	1.93	0.97
1:A2:1220:PRO:O	1:A1:599:ARG:HB3	1.63	0.97
1:A4:715:GLU:OE1	4:D3:970:MET:HA	1.64	0.97
9:I1:896:PRO:HB3	13:M1:583:ASP:CA	1.93	0.97
9:I1:1363:GLU:HG3	15:O1:266:GLN:HG2	1.43	0.97
9:I2:888:GLU:N	13:M3:594:LYS:HE3	1.78	0.97
9:I2:911:PRO:CB	15:O3:197:ARG:CD	2.43	0.97
17:Q1:210:LEU:HD12	17:Q1:270:LEU:HD12	1.42	0.97
17:Q2:700:GLU:HB3	17:Q2:758:ILE:HG12	1.44	0.97
24:W1:526:ARG:CB	24:W1:740:PHE:HA	1.95	0.97
26:Y1:1431:MET:SD	26:Y1:1434:PHE:HD2	1.88	0.97
26:Y2:1212:ARG:CZ	26:Y2:1213:LEU:CD2	2.42	0.97
26:Y2:1321:MET:CA	27:Z1:51:ASP:CB	2.41	0.97
27:Z1:538:ARG:NH2	27:Z2:543:GLN:O	1.97	0.97
1:A2:1221:ILE:HD11	1:A1:600:LYS:HE3	1.47	0.97
9:I1:841:PHE:HD1	15:O1:191:ARG:NE	1.62	0.97
9:I1:966:TRP:CA	15:O1:181:HIS:CB	2.24	0.97
9:I2:895:ARG:NH1	13:M3:586:ASP:CG	2.08	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:928:LEU:CD2	15:O3:179:LEU:CD2	2.38	0.97
9:I2:959:SER:O	16:P3:151:LYS:CG	2.12	0.97
9:I2:1051:LYS:HB2	14:N3:292:ARG:CD	1.95	0.97
17:Q2:867:GLN:HG3	17:Q2:869:ASP:H	1.25	0.97
25:X1:751:LEU:CD1	27:Z1:638:ILE:HD13	1.86	0.97
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CG	2.32	0.97
27:Z1:451:SER:O	27:Z1:452:SER:CA	2.12	0.97
27:Z1:540:VAL:O	27:Z2:555:GLU:CG	2.12	0.97
27:Z2:343:VAL:C	27:Z2:346:ASN:ND2	2.17	0.97
17:Q1:382:ARG:NH1	17:Q1:512:ILE:C	2.18	0.97
18:R1:527:VAL:HB	18:R1:580:PHE:CZ	2.00	0.97
25:X2:684:VAL:O	27:Z2:447:PHE:N	1.73	0.97
25:X2:685:MET:HE2	27:Z2:13:PHE:CE2	1.99	0.97
26:Y2:1334:LEU:CD2	27:Z1:107:ASP:C	2.32	0.97
26:Y2:1450:GLY:HA3	27:Z2:330:ASP:OD2	1.63	0.97
27:Z1:93:VAL:O	27:Z1:93:VAL:HG12	1.60	0.97
27:Z1:218:LEU:CD1	27:Z1:223:LEU:HD21	1.94	0.97
27:Z2:135:LYS:O	27:Z2:217:LEU:CB	2.13	0.97
27:Z2:389:TRP:CZ3	27:Z2:393:LEU:CD1	2.47	0.97
4:D1:468:LYS:CD	1:A1:999:SER:OG	2.13	0.96
9:I1:754:ARG:CZ	13:M1:552:TYR:HD2	1.78	0.96
9:I2:1109:LEU:CB	15:O3:284:LYS:NZ	2.27	0.96
22:U1:289:GLN:HG3	25:X1:794:ILE:CB	1.94	0.96
25:X2:778:LYS:HG3	25:X2:794:ILE:N	1.77	0.96
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:N	2.28	0.96
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:CD2	2.26	0.96
1:A1:827:ILE:CG2	1:A1:849:SER:HA	1.95	0.96
9:I1:981:VAL:HG11	15:O1:176:ARG:NE	1.79	0.96
9:I2:1051:LYS:NZ	14:N3:289:PHE:HA	1.80	0.96
9:I2:1246:ILE:CD1	14:N3:408:MET:HA	1.93	0.96
17:Q1:362:ILE:HG22	17:Q1:511:PRO:O	1.63	0.96
17:Q2:294:THR:HG22	17:Q2:308:ILE:HG12	1.48	0.96
17:Q2:874:PHE:CE1	19:R2:726:ASN:ND2	2.33	0.96
22:U1:209:PRO:CD	27:Z1:662:LEU:N	2.27	0.96
25:X1:665:TRP:HE1	26:Y1:1267:GLU:HB2	0.82	0.96
26:Y2:1431:MET:SD	26:Y2:1434:PHE:HD2	1.88	0.96
27:Z1:389:TRP:CZ3	27:Z1:393:LEU:CD1	2.47	0.96
27:Z2:209:TYR:CD1	27:Z2:335:MET:CA	2.49	0.96
27:Z2:218:LEU:CD1	27:Z2:223:LEU:HD21	1.93	0.96
27:Z2:364:ILE:O	27:Z2:373:LEU:HD12	1.65	0.96
1:A2:1230:TYR:OH	1:A1:590:SER:HA	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1269:ALA:HB3	1:A1:729:SER:N	1.78	0.96
7:G1:250:THR:OG1	15:O2:247:TRP:CH2	2.18	0.96
9:I2:914:ASN:HA	15:O3:194:GLU:CB	1.95	0.96
18:R1:581:LEU:HD12	18:R1:584:ILE:HD12	1.44	0.96
25:X2:721:LEU:HD13	27:Z2:612:ILE:CD1	1.95	0.96
26:Y1:1235:MET:O	26:Y1:1239:PHE:HD2	1.23	0.96
26:Y1:1366:LEU:O	26:Y1:1370:THR:HG23	1.66	0.96
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:HG12	1.64	0.96
27:Z1:223:LEU:HD11	27:Z1:263:TRP:HE1	1.30	0.96
27:Z2:216:LEU:HD21	27:Z2:272:ILE:HD12	1.23	0.96
27:Z2:325:ILE:HG23	27:Z2:350:LEU:HD11	0.98	0.96
6:F1:159:ALA:C	9:I1:1338:PHE:CD2	2.38	0.96
6:F2:142:ALA:O	9:I2:1395:LEU:CD2	2.12	0.96
22:U1:288:LEU:O	25:X1:797:LEU:HB2	1.66	0.96
25:X1:708:GLU:HG2	27:Z1:598:LEU:HD21	1.45	0.96
27:Z1:41:ASN:HD21	27:Z1:60:SER:HA	1.22	0.96
27:Z1:342:TYR:CE1	27:Z1:344:TYR:HE2	1.83	0.96
27:Z2:223:LEU:HD11	27:Z2:263:TRP:HE1	1.30	0.96
1:A2:1196:GLU:O	1:A1:592:ASP:OD2	1.83	0.96
1:A3:871:ASN:HA	4:D1:515:ASN:HB3	0.97	0.96
9:I1:838:GLU:CG	15:O1:198:ARG:HH21	1.68	0.96
9:I2:895:ARG:CG	13:M3:584:GLN:O	1.98	0.96
9:I2:916:ALA:CB	15:O3:193:ALA:H	1.78	0.96
9:I2:1095:TYR:HE1	15:O3:267:ALA:N	1.57	0.96
9:I2:1106:LYS:CB	15:O3:275:LEU:CG	2.41	0.96
9:I2:1246:ILE:HD11	14:N3:408:MET:CA	1.45	0.96
10:J1:247:ASP:CG	15:O1:276:GLY:CA	2.27	0.96
17:Q1:907:THR:HG22	17:Q1:923:HIS:HB2	1.44	0.96
18:R1:402:GLY:H	18:R1:444:ALA:CB	1.75	0.96
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HZ3	1.72	0.96
26:Y2:1211:LEU:CA	26:Y2:1212:ARG:H	1.77	0.96
26:Y2:1334:LEU:CB	27:Z1:108:ALA:HB3	1.87	0.96
26:Y2:1366:LEU:O	26:Y2:1370:THR:HG23	1.65	0.96
27:Z1:34:ARG:CG	27:Z1:95:TRP:HH2	1.78	0.96
27:Z1:303:ALA:HB1	27:Z1:363:LEU:CD2	1.96	0.96
27:Z2:131:LEU:HD13	27:Z2:187:PHE:HE2	1.19	0.96
27:Z2:135:LYS:O	27:Z2:217:LEU:HB2	1.66	0.96
1:A1:827:ILE:HG23	1:A1:850:PRO:N	1.80	0.96
1:A2:1200:ARG:CB	1:A1:595:GLU:HB2	1.94	0.96
6:F1:1392:LEU:HD21	15:O2:259:ASP:OD1	0.79	0.96
9:I1:1051:LYS:N	14:N1:293:LYS:HD2	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:919:ALA:HB3	16:P3:157:GLU:CA	1.82	0.96
9:I2:978:LYS:CE	15:O3:178:ASP:C	2.24	0.96
22:U1:290:SER:OG	25:X1:798:ASN:HB3	1.35	0.96
25:X1:665:TRP:CZ2	25:X1:669:LEU:HD11	2.01	0.96
26:Y1:1295:VAL:CA	27:Z1:588:TRP:CZ3	2.47	0.96
26:Y1:1450:GLY:HA3	27:Z1:330:ASP:OD2	1.62	0.96
27:Z1:45:TRP:HZ2	27:Z1:95:TRP:CH2	1.49	0.96
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:CD2	1.62	0.96
27:Z1:213:PRO:HG2	27:Z1:216:LEU:HD23	1.43	0.96
27:Z1:239:SER:O	27:Z1:241:THR:N	1.99	0.96
27:Z2:34:ARG:CG	27:Z2:95:TRP:HH2	1.78	0.96
1:A4:827:ILE:HG23	1:A4:850:PRO:N	1.80	0.96
4:D1:673:LEU:HD21	1:A1:1094:ILE:HG23	1.47	0.96
6:F1:1049:GLN:O	9:I1:1388:GLU:N	1.97	0.96
9:I1:977:ASN:CB	15:O1:177:HIS:H	1.78	0.96
9:I1:978:LYS:HZ3	15:O1:184:ARG:HH21	0.98	0.96
9:I1:1051:LYS:HG3	14:N1:289:PHE:HZ	1.14	0.96
9:I2:811:SER:HA	15:O3:245:GLU:OE2	1.63	0.96
9:I2:887:GLN:C	13:M3:594:LYS:HE3	1.86	0.96
9:I2:976:ARG:HB2	14:N3:297:ALA:HB2	0.98	0.96
17:Q2:60:VAL:HG21	17:Q2:63:GLU:HG3	1.46	0.96
22:U1:185:VAL:H	27:Z1:664:ARG:NH2	1.62	0.96
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD11	1.00	0.96
25:X2:692:LYS:HB3	27:Z2:431:TRP:CH2	2.01	0.96
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:CE	1.77	0.96
27:Z1:179:VAL:CG2	27:Z1:206:PHE:HD2	1.70	0.96
27:Z1:209:TYR:CD1	27:Z1:335:MET:CA	2.49	0.96
1:A2:1204:TRP:CD1	1:A1:599:ARG:CB	2.48	0.96
1:A2:1237:LEU:CG	1:A1:588:SER:OG	2.12	0.96
1:A2:1328:ARG:CB	4:D1:976:ARG:NH1	2.07	0.96
1:A4:1053:ARG:NE	4:D3:671:ARG:HH22	1.64	0.96
9:I1:914:ASN:ND2	13:M1:538:THR:N	2.00	0.96
9:I1:918:SER:OG	15:O1:193:ALA:HB3	1.64	0.96
9:I2:809:HIS:CD2	15:O3:243:LEU:N	2.32	0.96
9:I2:906:GLY:HA3	13:M3:573:ARG:HD2	0.97	0.96
9:I2:1099:ARG:O	15:O3:272:SER:CB	2.13	0.96
9:I2:1103:LEU:HD11	13:M3:611:LYS:HB3	1.47	0.96
26:Y2:1316:GLU:HG3	27:Z2:609:LEU:HD21	1.47	0.96
27:Z2:129:LYS:CE	27:Z2:185:LEU:CB	2.37	0.96
27:Z2:141:CYS:SG	27:Z2:213:PRO:HB2	2.05	0.96
7:G2:249:ASP:CB	15:O4:254:ARG:HE	1.78	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1315:GLN:HG2	15:O1:269:ILE:H	1.28	0.96
9:I2:1308:THR:OG1	14:N3:413:VAL:CG1	2.14	0.96
17:Q2:538:ILE:HD13	17:Q2:567:PHE:CE1	2.00	0.96
19:R2:527:VAL:HB	19:R2:580:PHE:CZ	2.00	0.96
25:X1:645:THR:N	27:Z1:535:PHE:CE2	2.32	0.96
27:Z1:180:ASN:OD1	27:Z1:200:THR:OG1	1.84	0.96
27:Z1:188:SER:OG	27:Z1:195:TYR:HE2	1.46	0.96
27:Z1:531:ILE:HD11	27:Z2:541:LYS:HD3	0.98	0.96
27:Z2:669:THR:CG2	27:Z2:680:TRP:CZ2	2.48	0.96
9:I1:980:ILE:CD1	15:O1:172:ALA:O	2.14	0.96
9:I2:1029:LEU:CG	13:M3:613:ASP:CB	1.97	0.96
22:U1:293:GLN:CG	26:Y1:1371:VAL:HG22	1.96	0.96
25:X1:665:TRP:HZ2	27:Z1:560:LEU:HD11	1.07	0.96
25:X2:755:LEU:HD13	26:Y2:1349:LEU:HD21	0.96	0.96
26:Y2:1120:SER:O	26:Y2:1120:SER:OG	1.79	0.96
27:Z1:141:CYS:SG	27:Z1:213:PRO:HB2	2.05	0.96
27:Z2:26:ILE:CG2	27:Z2:440:MET:CE	2.36	0.96
27:Z2:34:ARG:CD	27:Z2:47:ASN:HD22	1.79	0.96
27:Z2:342:TYR:CE1	27:Z2:344:TYR:HE2	1.84	0.96
1:A3:1082:LEU:O	4:D3:1096:TYR:CZ	2.19	0.95
1:A3:1331:GLU:CG	4:D3:874:ALA:N	2.29	0.95
1:A4:827:ILE:CG2	1:A4:849:SER:HA	1.96	0.95
7:G2:250:THR:O	15:O4:252:VAL:CA	2.07	0.95
9:I1:900:ARG:N	13:M1:580:LYS:CD	1.96	0.95
9:I1:1357:LYS:HZ1	15:O1:263:GLN:CA	1.78	0.95
9:I2:890:TYR:C	13:M3:591:ASP:HB2	1.86	0.95
9:I2:1103:LEU:CG	13:M3:614:ASP:HB3	1.96	0.95
22:U1:299:GLU:HB2	27:Z1:652:GLN:CA	1.95	0.95
25:X2:690:GLN:HA	27:Z2:7:LEU:CG	1.50	0.95
27:Z1:34:ARG:CD	27:Z1:47:ASN:HD22	1.79	0.95
27:Z1:135:LYS:O	27:Z1:217:LEU:HB2	1.66	0.95
27:Z1:343:VAL:CA	27:Z1:346:ASN:ND2	2.29	0.95
1:A2:1091:VAL:HA	4:D1:1104:GLU:OE2	1.65	0.95
6:F1:138:ILE:HG23	9:I1:1391:THR:HB	1.47	0.95
6:F1:1056:ARG:NH1	9:I1:1388:GLU:OE2	1.98	0.95
6:F2:143:GLY:C	9:I2:1395:LEU:CD2	2.26	0.95
7:G1:249:ASP:C	15:O2:247:TRP:NE1	2.15	0.95
9:I1:1050:SER:C	14:N1:293:LYS:CD	2.34	0.95
9:I2:890:TYR:O	13:M3:587:GLU:HG3	1.66	0.95
9:I2:899:LEU:HD21	13:M3:583:ASP:HB3	1.40	0.95
9:I2:921:GLU:H	16:P3:157:GLU:CD	1.69	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1016:PHE:CZ	17:Q2:1068:GLU:HG3	2.01	0.95
25:X2:800:HIS:NE2	27:Z2:691:SER:OG	1.99	0.95
27:Z2:422:ARG:NE	27:Z2:442:ASN:ND2	2.13	0.95
27:Z2:668:GLU:C	27:Z2:668:GLU:HB2	1.81	0.95
1:A2:1328:ARG:NH2	4:D1:898:ASP:OD1	1.99	0.95
6:F1:1265:GLN:CG	15:O2:252:VAL:HG23	1.95	0.95
6:F1:1267:ARG:CB	15:O2:254:ARG:HD2	1.90	0.95
10:J1:249:ASP:HB3	15:O1:272:SER:C	1.87	0.95
18:R1:537:PHE:HB2	18:R1:546:LEU:CD2	1.97	0.95
25:X2:823:LYS:HB3	27:Z1:259:LEU:HD22	1.42	0.95
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:CG1	2.13	0.95
26:Y2:1367:LYS:N	26:Y2:1383:ALA:HB3	1.75	0.95
27:Z1:404:PRO:CA	27:Z2:271:ASP:OD2	2.14	0.95
27:Z2:74:SER:OG	27:Z2:74:SER:O	1.75	0.95
9:I1:1255:HIS:CE1	15:O1:254:ARG:HD3	1.87	0.95
9:I2:1048:GLU:O	16:P3:141:ALA:N	1.96	0.95
18:R1:586:GLN:HE21	18:R1:630:LEU:HD13	1.30	0.95
25:X2:755:LEU:CD1	26:Y2:1349:LEU:HD11	1.94	0.95
26:Y2:1321:MET:CA	27:Z1:47:ASN:C	2.32	0.95
27:Z1:24:ARG:CZ	27:Z1:440:MET:CB	2.38	0.95
27:Z1:135:LYS:O	27:Z1:217:LEU:CB	2.13	0.95
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CG	1.95	0.95
27:Z2:133:HIS:HD1	27:Z2:211:PHE:HE1	0.95	0.95
27:Z2:184:ASP:OD2	27:Z2:197:LEU:CD2	2.15	0.95
27:Z2:217:LEU:HD23	27:Z2:269:LYS:HG2	1.44	0.95
27:Z2:642:ASN:C	27:Z2:642:ASN:N	2.20	0.95
1:A2:1237:LEU:HD11	1:A1:588:SER:HB3	0.95	0.95
1:A3:1332:ARG:CZ	4:D3:903:ILE:HG13	1.96	0.95
1:A4:1053:ARG:HD3	4:D3:671:ARG:NH2	1.79	0.95
9:I1:1667:GLN:HE21	9:I2:1669:ARG:HB2	1.28	0.95
9:I2:895:ARG:NH2	13:M3:589:GLY:CA	2.29	0.95
9:I2:928:LEU:CD2	15:O3:179:LEU:HD23	1.96	0.95
17:Q1:381:TYR:C	17:Q1:512:ILE:HG12	1.84	0.95
17:Q1:824:ASN:CA	17:Q1:827:THR:HB	1.96	0.95
19:R2:537:PHE:HB2	19:R2:546:LEU:CD2	1.96	0.95
19:R2:586:GLN:HE21	19:R2:630:LEU:HD13	1.30	0.95
25:X1:662:ILE:HD11	27:Z1:549:ILE:HG23	1.48	0.95
25:X2:648:LEU:CD1	27:Z2:535:PHE:CZ	2.50	0.95
25:X2:692:LYS:C	27:Z2:431:TRP:CZ3	2.33	0.95
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:CG1	2.13	0.95
27:Z2:297:TYR:CE2	27:Z2:321:ASP:OD1	2.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1103:LEU:HB3	13:M3:614:ASP:HB3	1.42	0.95
20:S2:574:THR:H	21:T2:86:ASN:ND2	1.63	0.95
22:U1:241:ARG:CB	27:Z1:656:SER:HB2	1.95	0.95
25:X1:742:GLN:CG	25:X1:743:GLN:N	2.19	0.95
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CG	2.13	0.95
26:Y2:1403:ARG:CZ	27:Z2:700:GLU:HB3	1.96	0.95
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:HD23	1.23	0.95
27:Z2:216:LEU:CD2	27:Z2:272:ILE:HD11	1.83	0.95
27:Z2:417:ILE:HG21	27:Z2:448:GLN:HE22	1.30	0.95
1:A3:1220:PRO:HB2	1:A4:595:GLU:OE1	0.99	0.95
1:A3:1400:SER:N	4:D3:869:THR:HG22	1.76	0.95
9:I1:909:ARG:N	13:M1:548:LEU:HD21	1.80	0.95
9:I2:977:ASN:O	15:O3:174:LEU:HB3	1.66	0.95
9:I2:1304:ASN:OD1	14:N3:412:ASN:HA	1.62	0.95
10:J2:247:ASP:OD1	15:O3:279:ILE:CD1	2.13	0.95
17:Q1:441:ARG:NH2	17:Q1:508:ASN:CB	2.16	0.95
22:U1:192:ILE:CB	27:Z1:664:ARG:HG3	1.96	0.95
26:Y1:1338:GLN:O	27:Z1:630:TRP:HH2	0.93	0.95
27:Z1:45:TRP:HZ2	27:Z1:95:TRP:HH2	1.11	0.95
27:Z1:129:LYS:HE3	27:Z1:185:LEU:CG	1.76	0.95
27:Z1:137:TYR:CB	27:Z1:217:LEU:CD2	2.43	0.95
27:Z1:297:TYR:CE2	27:Z1:321:ASP:OD1	2.19	0.95
1:A2:1201:ARG:HE	1:A1:647:GLU:HB3	1.30	0.95
9:I2:1030:ARG:HG2	13:M3:617:THR:HB	1.48	0.95
18:R1:402:GLY:N	18:R1:444:ALA:HB2	1.66	0.95
25:X2:655:PHE:HZ	27:Z2:545:LEU:HB3	1.13	0.95
27:Z1:422:ARG:CZ	27:Z1:442:ASN:ND2	2.30	0.95
27:Z1:642:ASN:C	27:Z1:642:ASN:N	2.20	0.95
27:Z2:216:LEU:HD11	27:Z2:272:ILE:HD11	1.12	0.95
27:Z2:252:GLN:HE21	27:Z2:335:MET:CG	1.78	0.95
27:Z2:358:ARG:CZ	27:Z2:382:GLN:NE2	2.29	0.95
27:Z2:669:THR:CG2	27:Z2:680:TRP:CH2	2.49	0.95
6:F1:138:ILE:CD1	9:I1:1388:GLU:HA	1.97	0.95
9:I1:896:PRO:HA	13:M1:583:ASP:CB	1.88	0.95
9:I1:978:LYS:HG2	15:O1:176:ARG:HH11	0.78	0.95
9:I2:896:PRO:CA	13:M3:584:GLN:HG2	1.42	0.95
9:I2:914:ASN:CB	15:O3:194:GLU:HB2	1.96	0.95
9:I2:1105:TRP:HB3	15:O3:276:GLY:O	1.64	0.95
20:S1:568:ALA:C	21:T1:86:ASN:ND2	2.16	0.95
26:Y1:1449:ILE:HG23	26:Y1:1453:PHE:CE2	2.00	0.95
26:Y2:1333:ASP:H	27:Z1:94:PRO:CA	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:252:GLN:HE21	27:Z1:335:MET:CG	1.78	0.95
27:Z1:343:VAL:O	27:Z1:346:ASN:ND2	1.99	0.95
27:Z1:364:ILE:O	27:Z1:373:LEU:HD12	1.66	0.95
27:Z1:395:LYS:HE2	27:Z2:267:PHE:N	1.82	0.95
27:Z1:541:LYS:HB2	27:Z2:550:HIS:O	1.41	0.95
27:Z2:137:TYR:CB	27:Z2:217:LEU:CD2	2.43	0.95
27:Z2:239:SER:O	27:Z2:241:THR:N	1.99	0.95
27:Z2:343:VAL:CA	27:Z2:346:ASN:ND2	2.29	0.95
27:Z2:668:GLU:C	27:Z2:668:GLU:HB3	1.86	0.95
1:A2:1269:ALA:HB3	1:A1:729:SER:H	1.32	0.95
6:F2:158:PRO:HB3	9:I2:1337:ALA:HB1	0.97	0.95
9:I1:918:SER:CB	15:O1:193:ALA:CB	2.44	0.95
9:I1:918:SER:HA	15:O1:193:ALA:CA	1.95	0.95
9:I1:1357:LYS:HZ1	15:O1:263:GLN:CG	1.67	0.95
9:I2:893:LEU:HD11	15:O3:243:LEU:HB3	1.46	0.95
9:I2:1254:VAL:H	14:N3:411:GLN:N	1.63	0.95
18:R1:409:LYS:HZ2	18:R1:448:ILE:HA	1.30	0.95
22:U1:294:VAL:HA	27:Z1:661:GLU:OE1	1.64	0.95
25:X2:655:PHE:HE1	27:Z1:534:GLU:OE2	1.47	0.95
26:Y2:1334:LEU:HD22	27:Z1:107:ASP:O	1.65	0.95
27:Z1:116:ILE:HD13	27:Z1:125:SER:O	1.67	0.95
27:Z1:137:TYR:HA	27:Z1:217:LEU:HD21	0.98	0.95
27:Z1:314:ILE:HG22	27:Z1:326:LEU:CD1	1.97	0.95
27:Z1:358:ARG:CZ	27:Z1:382:GLN:NE2	2.29	0.95
9:I1:1667:GLN:HG3	9:I2:1669:ARG:CB	1.90	0.94
9:I2:960:SER:CB	16:P3:154:ALA:N	2.30	0.94
22:U1:296:LEU:HB2	27:Z1:657:TYR:N	1.82	0.94
25:X1:800:HIS:HD2	27:Z1:694:ILE:HD12	1.31	0.94
25:X1:800:HIS:NE2	27:Z1:691:SER:OG	1.99	0.94
26:Y1:1403:ARG:CZ	27:Z1:700:GLU:HB3	1.96	0.94
27:Z1:46:TYR:HE1	27:Z1:48:VAL:HG22	1.30	0.94
27:Z1:152:THR:HG1	27:Z1:154:PHE:HE1	1.05	0.94
27:Z2:284:PRO:N	27:Z2:284:PRO:CD	2.28	0.94
27:Z2:352:GLU:O	27:Z2:352:GLU:HG3	1.67	0.94
1:A2:1228:TYR:CD2	1:A1:642:ARG:NH2	2.20	0.94
1:A4:1053:ARG:HE	4:D3:671:ARG:NH2	1.65	0.94
9:I2:809:HIS:NE2	15:O3:243:LEU:CG	2.29	0.94
9:I2:1103:LEU:O	13:M3:615:PRO:HD2	1.67	0.94
9:I2:1105:TRP:CE3	15:O3:273:ASP:CA	2.47	0.94
20:S1:566:ASP:CB	21:T1:85:GLU:OE2	2.05	0.94
24:W1:526:ARG:CD	24:W1:740:PHE:CB	2.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:679:LEU:O	26:Y1:1281:MET:HE3	1.66	0.94
25:X2:823:LYS:HD2	27:Z1:272:ILE:N	1.66	0.94
26:Y2:1321:MET:HB3	27:Z1:51:ASP:CG	1.87	0.94
27:Z1:170:ASN:ND2	27:Z1:177:ALA:HB1	1.81	0.94
27:Z2:117:ASP:CA	27:Z2:124:LYS:HZ1	1.51	0.94
27:Z2:205:ILE:HG22	27:Z2:285:PHE:CE2	2.02	0.94
27:Z2:449:ASN:ND2	27:Z2:576:ASP:HB2	1.82	0.94
1:A2:1201:ARG:CG	1:A1:647:GLU:CB	2.46	0.94
1:A2:1280:GLN:O	1:A1:635:ARG:CD	2.15	0.94
9:I1:977:ASN:HD22	15:O1:178:ASP:H	0.97	0.94
17:Q2:526:SER:HB3	17:Q2:531:LEU:HD11	1.48	0.94
17:Q2:545:TYR:CE2	17:Q2:546:ILE:HD12	2.02	0.94
25:X1:648:LEU:CD1	27:Z1:535:PHE:CZ	2.50	0.94
25:X2:708:GLU:HG2	27:Z2:598:LEU:HD21	1.45	0.94
26:Y2:1334:LEU:CD1	27:Z1:108:ALA:N	2.29	0.94
27:Z1:422:ARG:NE	27:Z1:442:ASN:ND2	2.13	0.94
27:Z1:428:TYR:OH	27:Z1:435:SER:HB2	1.65	0.94
27:Z2:35:ILE:HG13	27:Z2:46:TYR:CZ	2.03	0.94
1:A3:1332:ARG:HH22	4:D3:902:SER:CA	1.80	0.94
6:F1:135:VAL:HA	9:I1:1392:VAL:HG21	1.47	0.94
7:G2:249:ASP:CB	15:O4:254:ARG:NE	2.30	0.94
9:I2:914:ASN:CA	15:O3:194:GLU:HB2	1.97	0.94
22:U1:289:GLN:HG3	25:X1:794:ILE:CG2	1.96	0.94
25:X2:774:ASN:HB3	25:X2:797:LEU:HD12	1.45	0.94
26:Y2:1211:LEU:O	26:Y2:1215:GLU:CG	2.14	0.94
27:Z1:252:GLN:NE2	27:Z1:335:MET:H	1.51	0.94
27:Z1:304:THR:HG21	27:Z1:313:GLU:OE1	1.67	0.94
27:Z1:544:THR:HG23	27:Z2:558:PHE:CA	1.95	0.94
27:Z2:7:LEU:HD13	27:Z2:581:PHE:HE1	1.30	0.94
27:Z2:429:ILE:HG21	27:Z2:431:TRP:HE1	1.16	0.94
9:I2:1050:SER:HB2	15:O3:288:GLU:OE2	1.68	0.94
9:I2:1103:LEU:CB	13:M3:614:ASP:CB	2.44	0.94
9:I2:1305:LEU:HA	15:O3:264:ILE:HD11	1.48	0.94
17:Q1:922:LEU:CD2	18:R1:688:LEU:CB	2.44	0.94
17:Q2:572:ALA:HA	17:Q2:577:TYR:CE1	2.02	0.94
18:R1:402:GLY:H	18:R1:444:ALA:HB1	1.31	0.94
22:U1:243:PHE:HD2	27:Z1:657:TYR:C	1.71	0.94
25:X2:778:LYS:HZ3	25:X2:795:LYS:HB2	1.32	0.94
26:Y2:1449:ILE:HG22	26:Y2:1453:PHE:CE2	2.02	0.94
27:Z1:651:LEU:O	27:Z1:655:LEU:HG	1.67	0.94
27:Z2:15:ALA:C	27:Z2:15:ALA:CA	2.36	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:16:SER:CA	27:Z2:16:SER:N	2.30	0.94
27:Z2:46:TYR:HE1	27:Z2:48:VAL:HG22	1.30	0.94
27:Z2:137:TYR:HA	27:Z2:217:LEU:HD21	0.98	0.94
1:A2:1280:GLN:O	1:A1:635:ARG:NE	1.77	0.94
6:F1:274:PHE:HB2	9:I1:1207:PRO:N	1.83	0.94
9:I2:925:LEU:HD12	15:O3:186:PHE:HB3	1.50	0.94
17:Q1:922:LEU:HD21	18:R1:688:LEU:HD23	1.47	0.94
17:Q1:1016:PHE:CZ	17:Q1:1068:GLU:HG3	2.02	0.94
22:U1:243:PHE:HE2	27:Z1:660:SER:H	1.12	0.94
24:W1:557:CYS:SG	24:W1:742:GLU:O	2.25	0.94
26:Y2:1449:ILE:HG23	26:Y2:1453:PHE:CE2	2.00	0.94
27:Z1:358:ARG:NH1	27:Z1:382:GLN:HE22	1.65	0.94
1:A2:1203:TYR:HB2	1:A1:595:GLU:CD	1.87	0.94
6:F1:141:ALA:HB1	9:I1:1390:PHE:HD2	1.14	0.94
9:I2:1308:THR:HB	14:N3:413:VAL:C	1.87	0.94
17:Q1:382:ARG:N	17:Q1:508:ASN:OD1	2.00	0.94
17:Q2:824:ASN:CA	17:Q2:827:THR:HB	1.96	0.94
18:R1:409:LYS:HZ2	18:R1:448:ILE:CB	1.80	0.94
25:X2:800:HIS:HD2	27:Z2:694:ILE:HD12	1.31	0.94
26:Y1:1120:SER:OG	26:Y1:1120:SER:O	1.79	0.94
27:Z1:410:PHE:O	27:Z1:410:PHE:CD2	2.20	0.94
27:Z2:213:PRO:CD	27:Z2:216:LEU:CD2	2.46	0.94
27:Z2:304:THR:HG21	27:Z2:313:GLU:OE1	1.67	0.94
1:A2:1201:ARG:NH1	1:A1:644:ALA:O	2.01	0.94
1:A2:1221:ILE:CG1	1:A1:600:LYS:HE3	1.97	0.94
1:A2:1229:VAL:CG2	1:A1:639:ASN:C	2.25	0.94
1:A4:929:ASN:HD21	4:D3:468:LYS:HE3	1.13	0.94
9:I2:895:ARG:N	13:M3:587:GLU:HG2	1.83	0.94
9:I2:911:PRO:CG	15:O3:197:ARG:HG2	1.97	0.94
9:I2:914:ASN:HB3	15:O3:190:ARG:O	0.77	0.94
9:I2:925:LEU:CD1	15:O3:186:PHE:HB2	1.77	0.94
9:I2:1102:GLN:CB	15:O3:271:GLU:O	2.13	0.94
17:Q1:526:SER:HB3	17:Q1:531:LEU:HD11	1.48	0.94
17:Q1:545:TYR:CE2	17:Q1:546:ILE:HD12	2.02	0.94
17:Q1:919:GLU:OE1	18:R1:683:PHE:HD2	1.44	0.94
25:X1:755:LEU:HD13	26:Y1:1349:LEU:HD21	0.96	0.94
25:X1:790:ASN:OD1	27:Z1:680:TRP:CH2	2.21	0.94
25:X2:662:ILE:HD11	27:Z2:549:ILE:HG23	1.48	0.94
25:X2:665:TRP:CZ2	25:X2:669:LEU:HD11	2.01	0.94
25:X2:750:THR:HG22	25:X2:754:ASN:HD21	1.31	0.94
26:Y2:1334:LEU:CG	27:Z1:108:ALA:N	2.27	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:CG	1.81	0.94
27:Z1:24:ARG:NH2	27:Z1:440:MET:HB3	1.72	0.94
27:Z1:133:HIS:HD1	27:Z1:211:PHE:HE1	0.95	0.94
27:Z1:218:LEU:CD1	27:Z1:223:LEU:CD2	2.45	0.94
27:Z1:544:THR:HG21	27:Z2:558:PHE:H	1.30	0.94
27:Z1:598:LEU:CD2	27:Z1:601:ARG:HH21	1.80	0.94
27:Z2:27:PHE:CZ	27:Z2:36:VAL:HB	2.02	0.94
27:Z2:179:VAL:HG22	27:Z2:206:PHE:HD2	1.26	0.94
27:Z2:180:ASN:OD1	27:Z2:200:THR:OG1	1.84	0.94
9:I2:894:VAL:CB	13:M3:587:GLU:HG2	1.97	0.94
25:X1:717:LYS:NZ	26:Y1:1320:LEU:HD12	1.82	0.94
25:X1:790:ASN:CG	27:Z1:680:TRP:CZ2	2.41	0.94
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:CG	1.81	0.94
26:Y1:1455:ASN:C	26:Y1:1455:ASN:HB3	1.88	0.94
27:Z1:116:ILE:HD12	27:Z1:125:SER:O	1.67	0.94
27:Z1:381:ILE:HG21	27:Z1:417:ILE:HD11	1.47	0.94
27:Z2:422:ARG:CZ	27:Z2:442:ASN:ND2	2.30	0.94
27:Z2:662:LEU:O	27:Z2:666:GLU:HG3	1.68	0.94
1:A2:1229:VAL:CG2	1:A1:640:LEU:N	2.30	0.94
9:I1:1667:GLN:HE22	9:I2:1669:ARG:CD	1.58	0.94
9:I2:1253:GLY:HA2	14:N3:410:MET:H	0.78	0.94
17:Q1:859:ASP:HB3	17:Q1:862:PHE:CB	1.98	0.94
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CA	2.49	0.94
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:HZ2	1.33	0.94
27:Z1:27:PHE:CZ	27:Z1:36:VAL:HB	2.01	0.94
27:Z2:410:PHE:O	27:Z2:410:PHE:CD2	2.20	0.94
27:Z2:434:GLN:CB	27:Z2:580:LYS:NZ	2.31	0.94
6:F2:142:ALA:HB3	9:I2:1395:LEU:HD11	1.45	0.93
9:I1:916:ALA:CB	13:M1:534:GLN:HE21	1.80	0.93
9:I1:1315:GLN:O	15:O1:269:ILE:CG1	2.16	0.93
17:Q1:568:LEU:CD2	17:Q1:588:ILE:HD11	1.99	0.93
17:Q1:572:ALA:HA	17:Q1:577:TYR:HE1	1.33	0.93
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CD2	2.03	0.93
26:Y1:1316:GLU:HG3	27:Z1:609:LEU:HD21	1.47	0.93
26:Y1:1389:SER:CB	26:Y2:1357:ASN:ND2	2.30	0.93
27:Z1:201:GLU:O	27:Z1:201:GLU:HG2	1.09	0.93
27:Z2:170:ASN:ND2	27:Z2:177:ALA:HB1	1.81	0.93
1:A2:1332:ARG:O	4:D1:906:ARG:N	2.00	0.93
1:A4:622:GLY:O	4:D3:977:GLU:HG3	1.69	0.93
6:F1:1808:VAL:N	14:N2:412:ASN:CA	2.29	0.93
9:I1:961:ARG:HH12	15:O1:190:ARG:CA	1.80	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M3:476:THR:OG1	14:N4:323:ARG:HD3	1.68	0.93
17:Q1:382:ARG:H	17:Q1:512:ILE:HB	1.22	0.93
17:Q2:69:VAL:HG12	17:Q2:477:PHE:HD1	1.34	0.93
17:Q2:859:ASP:HB3	17:Q2:862:PHE:CB	1.98	0.93
22:U1:243:PHE:CD2	27:Z1:657:TYR:C	2.41	0.93
27:Z1:598:LEU:HD23	27:Z1:601:ARG:HH21	1.32	0.93
27:Z2:218:LEU:CD1	27:Z2:223:LEU:CD2	2.45	0.93
1:A2:1237:LEU:CD2	1:A1:588:SER:HG	1.64	0.93
1:A2:1237:LEU:HD21	1:A1:588:SER:CB	1.98	0.93
6:F1:1808:VAL:N	14:N2:412:ASN:OD1	2.02	0.93
9:I1:841:PHE:HD1	15:O1:191:ARG:HE	0.98	0.93
9:I1:908:ARG:NE	15:O1:209:LEU:CD1	2.28	0.93
9:I2:919:ALA:C	16:P3:157:GLU:OE1	2.05	0.93
9:I2:963:LEU:C	16:P3:152:LYS:HE2	1.88	0.93
9:I2:1049:LEU:N	16:P3:141:ALA:HB2	1.78	0.93
9:I2:1051:LYS:HA	14:N3:292:ARG:NH1	1.82	0.93
9:I2:1160:ILE:HD13	15:O3:264:ILE:HD13	1.49	0.93
17:Q2:929:LEU:HB3	19:R2:714:TYR:CZ	2.04	0.93
24:W1:400:LYS:CE	24:W1:716:GLU:CB	2.47	0.93
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:HG12	1.25	0.93
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:HB2	0.96	0.93
27:Z1:241:THR:HG21	27:Z1:246:LYS:CG	1.96	0.93
27:Z2:12:ILE:HG23	27:Z2:37:PHE:CD2	2.03	0.93
27:Z2:26:ILE:HG21	27:Z2:440:MET:CE	1.98	0.93
27:Z2:116:ILE:HD12	27:Z2:125:SER:O	1.68	0.93
27:Z2:241:THR:HG21	27:Z2:246:LYS:CG	1.96	0.93
27:Z2:314:ILE:HG22	27:Z2:326:LEU:CD1	1.96	0.93
27:Z2:598:LEU:HD23	27:Z2:601:ARG:HH21	1.33	0.93
9:I1:912:VAL:HG23	15:O1:198:ARG:CZ	1.97	0.93
9:I1:966:TRP:HA	15:O1:181:HIS:N	1.26	0.93
9:I2:896:PRO:HD3	13:M3:588:MET:CB	1.98	0.93
9:I2:900:ARG:CD	15:O3:235:ASN:CA	2.23	0.93
9:I2:1030:ARG:HH21	13:M3:607:SER:HB2	1.30	0.93
9:I2:1051:LYS:CE	14:N3:289:PHE:HA	1.98	0.93
17:Q1:572:ALA:HA	17:Q1:577:TYR:CE1	2.02	0.93
17:Q1:928:LYS:HE2	18:R1:695:ALA:CB	1.97	0.93
19:R2:506:ILE:HG13	19:R2:507:ASP:H	1.32	0.93
25:X2:710:PHE:HZ	26:Y2:1313:ALA:CB	1.82	0.93
25:X2:717:LYS:NZ	26:Y2:1320:LEU:HD12	1.83	0.93
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HD13	1.98	0.93
27:Z1:34:ARG:CG	27:Z1:95:TRP:CH2	2.52	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:209:TYR:CG	27:Z1:210:PRO:HD3	2.04	0.93
27:Z1:387:MET:HE3	27:Z1:391:SER:HB2	1.47	0.93
27:Z2:292:GLY:O	27:Z2:295:TYR:HD1	1.51	0.93
27:Z2:294:LEU:CD2	27:Z2:353:ARG:HH21	1.73	0.93
27:Z2:579:ARG:O	27:Z2:581:PHE:O	1.86	0.93
1:A2:1201:ARG:HE	1:A1:647:GLU:CA	1.66	0.93
6:F1:142:ALA:HB1	9:I1:1395:LEU:N	1.83	0.93
9:I1:903:GLY:HA2	13:M1:575:TYR:HB2	1.51	0.93
9:I2:1103:LEU:CB	13:M3:614:ASP:HB3	1.97	0.93
22:U1:212:LYS:HZ2	25:X1:768:GLU:HG2	1.31	0.93
25:X2:697:LEU:HB2	27:Z2:432:ASN:ND2	1.82	0.93
26:Y2:1218:PHE:CE1	26:Y2:1222:GLU:OE2	2.21	0.93
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CG	2.45	0.93
27:Z1:25:TYR:C	27:Z1:440:MET:HE1	1.88	0.93
27:Z2:428:TYR:OH	27:Z2:435:SER:HB2	1.65	0.93
27:Z2:651:LEU:O	27:Z2:655:LEU:HG	1.67	0.93
1:A2:1221:ILE:CD1	1:A1:596:ARG:CD	2.47	0.93
1:A2:1226:LEU:HD11	1:A1:646:ILE:H	1.32	0.93
6:F1:158:PRO:HG2	9:I1:1340:LEU:N	1.79	0.93
9:I1:844:LYS:HZ3	13:M1:539:ALA:HB2	1.29	0.93
9:I1:916:ALA:HB1	13:M1:534:GLN:HE21	1.33	0.93
9:I1:919:ALA:O	15:O1:191:ARG:HG2	1.68	0.93
9:I1:966:TRP:CE2	15:O1:183:VAL:HG12	2.03	0.93
9:I2:1104:LEU:H	13:M3:611:LYS:HZ3	1.02	0.93
17:Q1:294:THR:HG22	17:Q1:308:ILE:HG12	1.47	0.93
17:Q1:891:ILE:HD11	18:R1:715:LEU:HD21	1.50	0.93
22:U1:209:PRO:HD2	27:Z1:661:GLU:N	1.83	0.93
22:U1:290:SER:O	25:X1:801:PHE:HB3	1.68	0.93
25:X1:710:PHE:HZ	26:Y1:1313:ALA:CB	1.82	0.93
26:Y2:1431:MET:HA	26:Y2:1434:PHE:HD2	1.12	0.93
27:Z1:184:ASP:OD2	27:Z1:197:LEU:CD2	2.15	0.93
27:Z1:264:ASN:HD22	27:Z1:267:PHE:HD2	1.08	0.93
27:Z2:23:PRO:C	27:Z2:23:PRO:CD	2.36	0.93
27:Z2:45:TRP:HZ2	27:Z2:95:TRP:HH2	1.12	0.93
27:Z2:116:ILE:HD13	27:Z2:125:SER:O	1.67	0.93
27:Z2:343:VAL:O	27:Z2:346:ASN:ND2	1.99	0.93
1:A2:1201:ARG:CD	1:A1:647:GLU:HB2	1.97	0.93
1:A2:1228:TYR:HE2	1:A1:642:ARG:HH21	1.15	0.93
1:A3:1332:ARG:NH2	4:D3:902:SER:CA	2.32	0.93
1:A3:1400:SER:H	4:D3:869:THR:CG2	1.79	0.93
9:I2:964:SER:HB2	16:P3:152:LYS:HB2	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1175:LYS:HE2	15:O3:277:GLU:OE2	1.67	0.93
9:I2:1308:THR:HG22	14:N3:414:ALA:CA	1.98	0.93
17:Q2:756:PHE:CZ	17:Q2:760:ILE:HD12	2.04	0.93
17:Q2:919:GLU:OE1	19:R2:683:PHE:HD2	1.51	0.93
22:U1:248:LYS:HE2	25:X1:805:ARG:O	1.27	0.93
25:X1:803:ALA:HB2	26:Y1:1372:LYS:HG3	1.49	0.93
25:X2:665:TRP:HZ2	27:Z2:560:LEU:HD11	1.07	0.93
25:X2:777:ASN:OD1	26:Y2:1369:PHE:CZ	2.22	0.93
26:Y1:1218:PHE:CE1	26:Y1:1222:GLU:OE2	2.21	0.93
26:Y2:1235:MET:O	26:Y2:1239:PHE:HD2	1.29	0.93
26:Y2:1295:VAL:HA	27:Z2:588:TRP:HZ3	1.13	0.93
27:Z1:544:THR:CA	27:Z2:558:PHE:HD2	1.82	0.93
27:Z2:135:LYS:CE	27:Z2:218:LEU:HD21	1.98	0.93
1:A2:1280:GLN:C	1:A1:635:ARG:CD	2.35	0.93
1:A3:1225:PRO:HA	1:A4:643:ALA:HB1	1.51	0.93
1:A4:715:GLU:HB3	4:D3:973:GLN:HE21	1.19	0.93
1:A4:1051:THR:OG1	4:D4:1096:TYR:HE2	1.32	0.93
6:F2:142:ALA:CB	9:I2:1395:LEU:HD21	1.99	0.93
9:I2:917:TYR:H	15:O3:190:ARG:HA	1.31	0.93
9:I2:928:LEU:HB3	15:O3:179:LEU:HD13	1.49	0.93
9:I2:1305:LEU:CA	15:O3:264:ILE:CD1	2.37	0.93
9:I2:1308:THR:N	14:N3:414:ALA:HA	1.82	0.93
25:X1:727:SER:CA	25:X1:727:SER:N	2.32	0.93
25:X1:750:THR:HG22	25:X1:754:ASN:HD21	1.30	0.93
25:X2:775:THR:CB	25:X2:794:ILE:CD1	2.47	0.93
27:Z1:24:ARG:HH21	27:Z1:440:MET:CB	1.76	0.93
27:Z1:135:LYS:CE	27:Z1:218:LEU:HD21	1.98	0.93
27:Z1:143:VAL:HG22	27:Z1:211:PHE:HZ	1.33	0.93
27:Z1:213:PRO:CD	27:Z1:216:LEU:CD2	2.46	0.93
27:Z1:404:PRO:HA	27:Z2:271:ASP:CG	1.89	0.93
27:Z2:434:GLN:HG3	27:Z2:580:LYS:NZ	1.83	0.93
9:I1:908:ARG:HB2	15:O1:209:LEU:HD11	1.51	0.93
9:I1:963:LEU:CD1	15:O1:182:THR:HG21	1.98	0.93
9:I1:1360:GLU:O	15:O1:266:GLN:NE2	2.00	0.93
9:I2:1033:PRO:CG	13:M3:619:ILE:H	1.75	0.93
13:M3:469:GLU:CG	13:M4:536:GLU:OE1	2.17	0.93
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:HB2	1.30	0.93
27:Z1:541:LYS:CG	27:Z2:554:HIS:H	1.81	0.93
27:Z2:15:ALA:O	27:Z2:16:SER:CA	2.16	0.93
27:Z2:152:THR:HG1	27:Z2:154:PHE:HE1	1.07	0.93
27:Z2:209:TYR:HB3	27:Z2:210:PRO:HD3	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1225:PRO:HB3	1:A1:640:LEU:HD22	0.95	0.93
1:A2:1229:VAL:HG21	1:A1:640:LEU:C	1.88	0.93
9:I2:977:ASN:O	15:O3:174:LEU:HA	1.65	0.93
9:I2:982:GLN:HB2	15:O3:179:LEU:HD12	0.94	0.93
9:I2:1051:LYS:CD	14:N3:289:PHE:HD1	1.81	0.93
17:Q1:891:ILE:CD1	18:R1:715:LEU:CD2	2.31	0.93
19:R2:631:ILE:HD13	19:R2:632:LYS:HG3	1.51	0.93
22:U1:289:GLN:N	25:X1:798:ASN:N	2.10	0.93
25:X1:648:LEU:HB3	27:Z2:547:VAL:HG13	1.49	0.93
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:HA	1.99	0.93
26:Y2:1117:TYR:CA	26:Y2:1118:ALA:N	2.31	0.93
26:Y2:1368:LEU:CB	26:Y2:1382:VAL:C	2.38	0.93
27:Z1:209:TYR:HB3	27:Z1:210:PRO:HD3	0.94	0.93
27:Z1:662:LEU:O	27:Z1:666:GLU:HG3	1.68	0.93
27:Z2:120:GLU:O	27:Z2:124:LYS:CG	2.15	0.93
27:Z2:143:VAL:HG22	27:Z2:211:PHE:HZ	1.33	0.93
27:Z2:598:LEU:CD2	27:Z2:601:ARG:HH21	1.81	0.93
1:A4:712:THR:HG22	4:D3:969:HIS:HB3	1.50	0.92
4:D1:1006:ASP:CB	1:A1:172:PRO:HB3	1.98	0.92
9:I1:906:GLY:CA	13:M1:572:GLU:CG	2.34	0.92
9:I1:980:ILE:CG1	15:O1:172:ALA:O	2.17	0.92
9:I2:1050:SER:N	16:P3:142:LEU:N	2.08	0.92
9:I2:1050:SER:HG	14:N3:292:ARG:HG3	1.22	0.92
9:I2:1095:TYR:HD1	15:O3:266:GLN:O	1.29	0.92
9:I2:1103:LEU:HB2	13:M3:611:LYS:CD	1.99	0.92
17:Q2:276:LEU:HB2	17:Q2:280:THR:HG23	1.51	0.92
17:Q2:568:LEU:CD2	17:Q2:588:ILE:HD11	1.99	0.92
22:U1:295:GLU:CB	27:Z1:657:TYR:CD2	2.50	0.92
25:X1:777:ASN:OD1	26:Y1:1369:PHE:CZ	2.21	0.92
25:X2:714:PHE:CZ	26:Y2:1316:GLU:CG	2.52	0.92
25:X2:777:ASN:O	25:X2:789:GLU:O	1.85	0.92
27:Z1:205:ILE:HG22	27:Z1:285:PHE:CE2	2.02	0.92
27:Z2:416:ASP:CB	27:Z2:569:LYS:CE	2.48	0.92
27:Z2:429:ILE:HG22	27:Z2:431:TRP:CD1	2.05	0.92
1:A2:1204:TRP:HD1	1:A1:599:ARG:CB	1.81	0.92
1:A2:1233:GLN:HG2	1:A1:587:VAL:CG1	1.84	0.92
1:A3:1332:ARG:NH1	4:D3:899:THR:HA	1.84	0.92
7:G2:250:THR:O	15:O4:252:VAL:C	2.07	0.92
7:G2:250:THR:N	15:O4:254:ARG:HD2	1.84	0.92
9:I2:1305:LEU:CD2	15:O3:260:LEU:HD11	1.97	0.92
19:R2:684:ILE:CD1	19:R2:722:ALA:HA	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:776:PHE:CE1	25:X1:795:LYS:CD	2.50	0.92
25:X2:692:LYS:HD2	27:Z2:10:LEU:CB	1.97	0.92
27:Z1:422:ARG:NE	27:Z1:442:ASN:HD21	1.68	0.92
27:Z2:416:ASP:HB2	27:Z2:569:LYS:CE	1.99	0.92
1:A2:1272:GLY:O	1:A1:723:PHE:HZ	1.47	0.92
9:I1:1667:GLN:HE22	9:I2:1669:ARG:HD3	1.00	0.92
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HZ3	1.66	0.92
20:S1:574:THR:CB	21:T1:88:ARG:NH1	2.33	0.92
22:U1:212:LYS:CE	25:X1:768:GLU:HG2	1.99	0.92
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CD2	2.03	0.92
27:Z1:135:LYS:CE	27:Z1:218:LEU:CD2	2.47	0.92
27:Z1:352:GLU:O	27:Z1:352:GLU:HG3	1.66	0.92
27:Z2:230:SER:CB	27:Z2:253:LEU:HD23	1.99	0.92
27:Z2:252:GLN:HB2	27:Z2:335:MET:HE3	1.48	0.92
1:A2:1226:LEU:HD21	1:A1:647:GLU:H	0.77	0.92
9:I1:911:PRO:CD	15:O1:202:LEU:HD12	2.00	0.92
17:Q1:756:PHE:CZ	17:Q1:760:ILE:HD12	2.04	0.92
17:Q2:714:TYR:HD2	17:Q2:717:CYS:HG	1.16	0.92
17:Q2:969:VAL:HG11	17:Q2:1009:LEU:CD1	1.99	0.92
18:R1:684:ILE:CD1	18:R1:722:ALA:HA	1.99	0.92
24:W1:403:ASP:N	24:W1:723:PHE:C	2.22	0.92
25:X1:687:GLU:OE2	27:Z1:573:LYS:HD3	1.69	0.92
25:X2:811:SER:OG	27:Z2:701:LEU:HD13	1.68	0.92
26:Y1:1449:ILE:HG22	26:Y1:1453:PHE:CE2	2.03	0.92
27:Z1:451:SER:C	27:Z1:451:SER:HA	1.88	0.92
27:Z2:358:ARG:NH1	27:Z2:382:GLN:HE22	1.66	0.92
9:I1:917:TYR:H	15:O1:195:LEU:HD12	1.35	0.92
9:I2:1030:ARG:NH2	13:M3:607:SER:HB2	1.85	0.92
9:I2:1103:LEU:CD2	15:O3:275:LEU:CD2	2.47	0.92
13:M3:469:GLU:OE2	13:M4:533:GLN:HA	1.68	0.92
18:R1:530:ILE:HA	18:R1:549:PHE:CE2	2.04	0.92
20:S1:568:ALA:O	21:T1:86:ASN:ND2	2.03	0.92
25:X1:668:VAL:HG13	26:Y1:1271:ASN:HD21	1.33	0.92
25:X1:750:THR:CG2	25:X1:754:ASN:HD21	1.83	0.92
27:Z1:361:LYS:HZ1	27:Z1:378:ASP:HB2	1.23	0.92
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HD23	2.04	0.92
27:Z2:289:PRO:O	27:Z2:289:PRO:HD2	1.70	0.92
27:Z2:363:LEU:CG	27:Z2:373:LEU:HD21	2.00	0.92
27:Z2:389:TRP:HE3	27:Z2:393:LEU:CD1	1.76	0.92
6:F1:141:ALA:CA	9:I1:1390:PHE:CG	2.52	0.92
9:I1:977:ASN:CB	15:O1:175:SER:N	2.30	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1048:GLU:HB3	14:N1:293:LYS:CE	2.00	0.92
9:I2:976:ARG:HD3	14:N3:293:LYS:O	1.67	0.92
17:Q2:509:ALA:CA	17:Q2:516:LEU:HD11	1.99	0.92
22:U1:289:GLN:CG	25:X1:794:ILE:HG23	1.98	0.92
24:W1:526:ARG:O	24:W1:743:ASN:C	1.96	0.92
24:W1:534:ASP:OD2	24:W1:745:GLU:O	1.86	0.92
25:X1:714:PHE:CZ	26:Y1:1316:GLU:CG	2.52	0.92
25:X2:778:LYS:HE2	25:X2:794:ILE:HG13	1.52	0.92
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:HD23	1.10	0.92
27:Z1:137:TYR:HB3	27:Z1:217:LEU:HD23	1.51	0.92
27:Z1:297:TYR:CE2	27:Z1:321:ASP:CG	2.43	0.92
27:Z2:69:PHE:CA	27:Z2:84:ASN:ND2	1.86	0.92
27:Z2:297:TYR:CE2	27:Z2:321:ASP:CG	2.43	0.92
1:A2:1222:ALA:O	1:A1:595:GLU:O	1.88	0.92
1:A3:1084:ARG:CA	4:D3:1095:ARG:NE	2.32	0.92
1:A4:827:ILE:HG23	1:A4:849:SER:C	1.90	0.92
7:G1:255:LEU:HA	15:O2:245:GLU:C	1.89	0.92
9:I1:961:ARG:CD	15:O1:186:PHE:O	2.17	0.92
9:I2:1308:THR:CB	14:N3:413:VAL:CG1	2.48	0.92
17:Q1:386:PHE:HZ	17:Q1:563:PHE:CA	1.82	0.92
17:Q1:509:ALA:CA	17:Q1:516:LEU:HD11	1.99	0.92
17:Q1:982:GLU:HB3	17:Q1:1104:ILE:CD1	2.00	0.92
17:Q1:982:GLU:HB3	17:Q1:1104:ILE:HD11	1.52	0.92
25:X2:662:ILE:HD13	27:Z1:541:LYS:NZ	1.84	0.92
25:X2:690:GLN:CG	27:Z2:7:LEU:HB3	1.99	0.92
26:Y1:1316:GLU:CG	27:Z1:609:LEU:CD2	2.47	0.92
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:CG1	1.78	0.92
1:A2:1226:LEU:CD2	1:A1:647:GLU:HG2	2.00	0.92
6:F1:166:THR:CB	9:I1:1331:LYS:NZ	2.33	0.92
9:I2:887:GLN:NE2	13:M3:597:LYS:HZ2	1.61	0.92
9:I2:925:LEU:HG	15:O3:186:PHE:CB	1.99	0.92
19:R2:580:PHE:CZ	19:R2:584:ILE:HG12	2.05	0.92
25:X2:668:VAL:HG13	26:Y2:1271:ASN:HD21	1.34	0.92
25:X2:695:GLN:HB2	27:Z2:48:VAL:CG1	2.00	0.92
25:X2:714:PHE:HZ	26:Y2:1316:GLU:CG	1.82	0.92
25:X2:717:LYS:HE2	26:Y2:1320:LEU:HD12	0.94	0.92
25:X2:726:VAL:HG12	25:X2:727:SER:N	1.85	0.92
27:Z1:124:LYS:CD	27:Z1:147:GLU:OE1	2.17	0.92
27:Z1:361:LYS:NZ	27:Z1:378:ASP:CB	2.32	0.92
27:Z1:383:GLN:CG	27:Z1:417:ILE:HG21	2.00	0.92
27:Z2:166:LEU:HD13	27:Z2:208:PHE:CE2	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:176:ARG:NH2	9:I2:1207:PRO:HD3	1.85	0.92
7:G1:251:TYR:CE2	15:O2:244:GLU:HA	2.05	0.92
9:I2:806:VAL:HG21	15:O3:247:TRP:HB3	1.52	0.92
9:I2:1109:LEU:HB2	15:O3:284:LYS:CD	2.00	0.92
17:Q1:714:TYR:HD2	17:Q1:717:CYS:HG	1.10	0.92
17:Q2:615:GLU:HG3	17:Q2:645:ILE:HG21	1.51	0.92
17:Q2:982:GLU:HB3	17:Q2:1104:ILE:CD1	2.00	0.92
19:R2:527:VAL:HB	19:R2:580:PHE:CE2	2.05	0.92
19:R2:530:ILE:HA	19:R2:549:PHE:CE2	2.04	0.92
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD12	0.94	0.92
27:Z1:35:ILE:HG13	27:Z1:46:TYR:CZ	2.03	0.92
27:Z1:216:LEU:CD2	27:Z1:272:ILE:HD11	1.83	0.92
27:Z1:579:ARG:O	27:Z1:581:PHE:O	1.87	0.92
1:A3:1083:SER:O	4:D3:1096:TYR:CD1	2.23	0.92
9:I1:838:GLU:CG	15:O1:198:ARG:HE	1.63	0.92
9:I2:963:LEU:H	16:P3:151:LYS:HD3	1.35	0.92
9:I2:1051:LYS:HD2	14:N3:289:PHE:CB	2.00	0.92
9:I2:1254:VAL:N	14:N3:411:GLN:N	2.17	0.92
17:Q1:961:SER:HB2	17:Q1:991:LEU:CD2	2.00	0.92
17:Q2:711:ASN:HA	17:Q2:715:LEU:CD1	1.99	0.92
18:R1:631:ILE:HD13	18:R1:632:LYS:HG3	1.51	0.92
22:U1:248:LYS:CE	25:X1:805:ARG:O	2.15	0.92
22:U1:288:LEU:HD13	25:X1:792:GLN:C	1.89	0.92
22:U1:296:LEU:CA	27:Z1:657:TYR:H	1.82	0.92
22:U1:340:LYS:CD	27:Z1:646:HIS:CE1	2.52	0.92
25:X1:814:LEU:HD23	25:X1:817:GLN:OE1	1.70	0.92
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CG	2.05	0.92
27:Z1:534:GLU:CB	27:Z2:545:LEU:HA	1.99	0.92
27:Z1:641:PHE:CZ	27:Z1:645:VAL:CG2	2.53	0.92
6:F1:135:VAL:CG1	9:I1:1336:MET:CB	2.18	0.91
6:F1:142:ALA:CB	9:I1:1395:LEU:HG	2.00	0.91
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CD	1.61	0.91
9:I1:1667:GLN:CG	9:I2:1669:ARG:CA	2.46	0.91
9:I2:906:GLY:HA3	13:M3:573:ARG:NE	1.85	0.91
17:Q1:969:VAL:HG11	17:Q1:1009:LEU:CD1	1.99	0.91
17:Q2:961:SER:HB2	17:Q2:991:LEU:CD2	2.00	0.91
25:X2:695:GLN:HE22	27:Z2:429:ILE:CG2	1.80	0.91
26:Y1:1456:LEU:HB2	26:Y1:1456:LEU:O	1.70	0.91
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:N	2.38	0.91
26:Y2:1448:GLN:O	26:Y2:1452:PHE:HD2	1.53	0.91
27:Z1:166:LEU:HD13	27:Z1:208:PHE:CE2	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:209:TYR:CD1	27:Z1:210:PRO:HD3	2.06	0.91
27:Z1:363:LEU:CG	27:Z1:373:LEU:HD21	2.00	0.91
1:A4:1053:ARG:CD	4:D3:671:ARG:HH21	1.82	0.91
6:F1:153:LEU:O	9:I1:1395:LEU:CD1	2.18	0.91
9:I2:1049:LEU:CD1	16:P3:142:LEU:N	2.33	0.91
17:Q1:451:ASN:H	17:Q1:548:PRO:CB	1.83	0.91
17:Q1:615:GLU:HG3	17:Q1:645:ILE:HG21	1.51	0.91
18:R1:506:ILE:HG13	18:R1:507:ASP:H	1.32	0.91
25:X1:811:SER:OG	27:Z1:701:LEU:HD13	1.68	0.91
26:Y1:1409:LEU:CA	27:Z1:711:LYS:HZ3	1.83	0.91
27:Z1:282:GLN:O	27:Z1:283:GLY:CA	2.18	0.91
27:Z1:393:LEU:CD2	27:Z1:405:LEU:HD22	1.91	0.91
27:Z2:131:LEU:CD1	27:Z2:187:PHE:HE2	1.78	0.91
27:Z2:303:ALA:HB1	27:Z2:363:LEU:CD2	1.95	0.91
7:G1:255:LEU:HB2	15:O2:246:LEU:N	1.76	0.91
9:I1:905:ALA:HB2	13:M1:573:ARG:CZ	2.00	0.91
17:Q1:69:VAL:HG12	17:Q1:477:PHE:HD1	1.33	0.91
25:X1:658:TYR:CE2	25:X1:662:ILE:HD11	2.05	0.91
25:X1:789:GLU:HG3	25:X1:793:LEU:HD13	1.49	0.91
25:X1:815:GLU:HG3	26:Y1:1402:LEU:HD11	1.53	0.91
25:X2:648:LEU:HG	27:Z2:535:PHE:CZ	2.05	0.91
27:Z1:230:SER:CB	27:Z1:253:LEU:HD23	1.99	0.91
27:Z1:289:PRO:O	27:Z1:289:PRO:HD2	1.70	0.91
27:Z2:209:TYR:CG	27:Z2:210:PRO:HD3	2.04	0.91
27:Z2:396:CYS:SG	27:Z2:404:PRO:HG2	2.10	0.91
1:A4:442:ARG:HE	4:D3:1021:ASP:HB3	1.36	0.91
6:F1:1265:GLN:CB	15:O2:252:VAL:CG2	2.43	0.91
7:G1:254:ASN:ND2	15:O2:246:LEU:O	1.81	0.91
10:J1:248:VAL:CG2	15:O1:273:ASP:OD2	2.18	0.91
17:Q1:276:LEU:HB2	17:Q1:280:THR:HG23	1.51	0.91
17:Q1:929:LEU:CD1	18:R1:695:ALA:HB2	2.01	0.91
17:Q2:345:GLN:HG3	17:Q2:346:LEU:CD2	2.00	0.91
17:Q2:753:PHE:CE2	17:Q2:757:LYS:HD3	2.05	0.91
18:R1:580:PHE:CZ	18:R1:584:ILE:HG12	2.05	0.91
25:X1:790:ASN:N	27:Z1:669:THR:C	0.86	0.91
25:X2:778:LYS:HA	25:X2:794:ILE:H	1.30	0.91
26:Y1:1345:LEU:HD23	26:Y1:1348:LYS:CD	2.01	0.91
27:Z1:12:ILE:HG23	27:Z1:37:PHE:CD2	2.03	0.91
27:Z1:94:PRO:HB3	27:Z1:109:PHE:CZ	1.92	0.91
27:Z2:188:SER:HB2	27:Z2:195:TYR:CD2	2.05	0.91
1:A2:1222:ALA:CA	1:A1:600:LYS:N	2.26	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1070:ASP:CG	9:I2:1238:LYS:HB2	1.78	0.91
9:I2:1049:LEU:HD11	16:P3:142:LEU:HA	1.49	0.91
17:Q1:753:PHE:CE2	17:Q1:757:LYS:HD3	2.05	0.91
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CD1	2.00	0.91
25:X2:814:LEU:HD23	25:X2:817:GLN:OE1	1.71	0.91
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CD1	2.00	0.91
26:Y2:1385:LEU:HD12	27:Z2:683:LEU:CD2	2.00	0.91
27:Z1:338:ASP:O	27:Z1:338:ASP:OD1	1.88	0.91
27:Z1:429:ILE:HG22	27:Z1:431:TRP:CD1	2.05	0.91
27:Z2:129:LYS:HE2	27:Z2:185:LEU:HG	0.91	0.91
27:Z2:145:LEU:HD11	27:Z2:182:ILE:HG21	1.50	0.91
27:Z2:252:GLN:NE2	27:Z2:335:MET:H	1.51	0.91
27:Z2:422:ARG:NE	27:Z2:442:ASN:HD21	1.68	0.91
27:Z2:448:GLN:CB	27:Z2:573:LYS:HZ2	1.84	0.91
9:I2:960:SER:OG	16:P3:154:ALA:HB3	1.68	0.91
9:I2:964:SER:N	16:P3:152:LYS:H	1.68	0.91
22:U1:243:PHE:HD2	27:Z1:657:TYR:HA	1.32	0.91
25:X1:648:LEU:HG	27:Z1:535:PHE:CZ	2.05	0.91
25:X1:793:LEU:HD21	27:Z1:680:TRP:HD1	1.32	0.91
26:Y1:1382:VAL:C	26:Y1:1384:LYS:CB	2.36	0.91
26:Y2:1334:LEU:CB	27:Z1:105:ILE:O	2.18	0.91
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:H	1.25	0.91
27:Z1:149:ASP:CG	27:Z1:182:ILE:HG22	1.91	0.91
27:Z1:396:CYS:SG	27:Z1:404:PRO:HG2	2.10	0.91
27:Z1:428:TYR:HH	27:Z1:435:SER:CB	1.81	0.91
27:Z2:135:LYS:CE	27:Z2:218:LEU:CD2	2.48	0.91
27:Z2:145:LEU:HD11	27:Z2:149:ASP:OD1	1.71	0.91
27:Z2:282:GLN:C	27:Z2:283:GLY:HA2	1.88	0.91
27:Z2:338:ASP:O	27:Z2:338:ASP:OD1	1.88	0.91
1:A2:1331:GLU:HB3	4:D1:899:THR:CA	1.99	0.91
1:A2:1331:GLU:CA	4:D1:903:ILE:HG13	2.00	0.91
9:I1:921:GLU:HB2	15:O1:187:ASN:HA	1.51	0.91
9:I2:895:ARG:HH22	13:M3:589:GLY:HA3	1.33	0.91
17:Q1:276:LEU:HD11	17:Q1:282:LEU:HD21	1.52	0.91
17:Q1:703:THR:HG21	17:Q1:709:PHE:CD1	2.06	0.91
17:Q1:1012:GLU:HG2	17:Q1:1057:LEU:CD2	2.01	0.91
17:Q2:572:ALA:HA	17:Q2:577:TYR:HE1	1.33	0.91
17:Q2:934:VAL:CG1	17:Q2:936:LYS:HG3	2.01	0.91
22:U1:289:GLN:OE1	25:X1:794:ILE:HG23	1.70	0.91
25:X1:714:PHE:HZ	26:Y1:1316:GLU:CG	1.82	0.91
25:X2:638:ASP:H	27:Z2:528:PHE:HZ	1.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1382:VAL:O	26:Y1:1384:LYS:HG3	1.71	0.91
26:Y1:1435:LYS:HZ3	27:Z1:225:LEU:HD23	1.08	0.91
26:Y1:1448:GLN:O	26:Y1:1452:PHE:HD2	1.53	0.91
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HG	2.05	0.91
27:Z1:145:LEU:HD11	27:Z1:182:ILE:HG21	1.50	0.91
27:Z1:263:TRP:HA	27:Z1:270:VAL:HG22	1.53	0.91
27:Z2:41:ASN:HD21	27:Z2:60:SER:HA	1.22	0.91
27:Z2:137:TYR:HB3	27:Z2:217:LEU:CD2	2.01	0.91
9:I1:896:PRO:HB3	13:M1:583:ASP:C	1.90	0.91
9:I1:908:ARG:HD3	13:M1:552:TYR:H	1.28	0.91
9:I2:914:ASN:HB3	15:O3:190:ARG:C	1.90	0.91
9:I2:1102:GLN:CD	15:O3:269:ILE:O	2.08	0.91
17:Q1:928:LYS:CE	18:R1:695:ALA:HB1	2.00	0.91
17:Q1:1070:LEU:HB2	17:Q1:1071:PRO:HD3	1.51	0.91
17:Q2:276:LEU:HD11	17:Q2:282:LEU:HD21	1.53	0.91
18:R1:527:VAL:HB	18:R1:580:PHE:CE2	2.05	0.91
25:X1:637:LEU:N	26:Y1:1218:PHE:HD2	1.56	0.91
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CG	2.05	0.91
25:X2:692:LYS:HD2	27:Z2:10:LEU:HB2	1.51	0.91
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:CD1	1.72	0.91
26:Y1:1385:LEU:HD12	27:Z1:683:LEU:CD2	2.00	0.91
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:HA	1.99	0.91
26:Y2:1409:LEU:CA	27:Z2:711:LYS:HZ3	1.83	0.91
27:Z1:26:ILE:HB	27:Z1:440:MET:CE	1.85	0.91
27:Z1:288:ASN:O	27:Z1:290:PHE:N	2.04	0.91
27:Z2:10:LEU:HD21	27:Z2:431:TRP:CZ3	2.05	0.91
27:Z2:136:SER:C	27:Z2:217:LEU:HG	1.91	0.91
1:A2:1331:GLU:CB	4:D1:899:THR:CA	2.49	0.91
6:F2:139:GLN:HB3	9:I2:1340:LEU:CD2	2.01	0.91
9:I2:806:VAL:CG1	15:O3:247:TRP:CA	2.49	0.91
9:I2:978:LYS:HD2	15:O3:179:LEU:N	1.84	0.91
17:Q1:934:VAL:CG1	17:Q1:936:LYS:HG3	2.00	0.91
17:Q2:611:ASN:HA	17:Q2:614:TRP:CE3	2.06	0.91
18:R1:633:THR:HG23	18:R1:636:VAL:HG21	1.52	0.91
22:U1:243:PHE:HA	27:Z1:657:TYR:CB	1.99	0.91
22:U1:288:LEU:N	25:X1:798:ASN:HB2	1.84	0.91
22:U1:289:GLN:CG	25:X1:794:ILE:CB	2.49	0.91
25:X1:799:SER:CB	26:Y1:1372:LYS:CA	2.48	0.91
26:Y2:1337:HIS:ND1	27:Z1:111:ILE:HD13	1.85	0.91
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HD23	2.04	0.91
27:Z1:136:SER:C	27:Z1:217:LEU:HG	1.91	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:23:PRO:N	27:Z2:23:PRO:C	2.24	0.91
1:A3:1200:ARG:CB	1:A4:591:ASP:OD1	2.19	0.91
6:F1:1267:ARG:HG2	15:O2:255:GLY:CA	2.00	0.91
9:I1:966:TRP:HA	15:O1:181:HIS:CB	1.78	0.91
9:I2:914:ASN:OD1	15:O3:191:ARG:NH2	2.04	0.91
9:I2:1049:LEU:HB3	14:N3:292:ARG:C	1.90	0.91
10:J1:251:TYR:HB3	15:O1:273:ASP:OD1	1.70	0.91
17:Q1:345:GLN:HG3	17:Q1:346:LEU:CD2	2.00	0.91
17:Q1:440:ARG:HD2	17:Q1:514:PHE:HE2	1.31	0.91
17:Q1:711:ASN:HA	17:Q1:715:LEU:CD1	1.98	0.91
25:X1:795:LYS:HZ1	27:Z1:666:GLU:HA	1.14	0.91
26:Y1:1392:ARG:NH1	27:Z1:690:ASP:CA	2.33	0.91
27:Z1:129:LYS:HE2	27:Z1:185:LEU:HG	0.91	0.91
27:Z1:131:LEU:HD13	27:Z1:187:PHE:HE2	1.19	0.91
27:Z1:230:SER:O	27:Z1:253:LEU:HD21	1.72	0.91
27:Z1:343:VAL:C	27:Z1:346:ASN:HD22	1.75	0.91
27:Z2:137:TYR:HB3	27:Z2:217:LEU:HD23	1.50	0.91
9:I1:1051:LYS:NZ	14:N1:290:VAL:CB	2.35	0.90
17:Q1:1066:PHE:CB	17:Q1:1144:LYS:HE3	1.99	0.90
17:Q2:725:PHE:HD1	17:Q2:740:GLU:HG2	1.36	0.90
26:Y1:1295:VAL:HA	27:Z1:588:TRP:HZ3	1.13	0.90
26:Y2:1316:GLU:CG	27:Z2:609:LEU:CD2	2.47	0.90
27:Z1:10:LEU:HD21	27:Z1:431:TRP:CZ3	2.05	0.90
27:Z1:429:ILE:HG21	27:Z1:431:TRP:HE1	1.16	0.90
27:Z2:201:GLU:O	27:Z2:201:GLU:HG2	1.08	0.90
27:Z2:361:LYS:NZ	27:Z2:378:ASP:CB	2.32	0.90
9:I2:1099:ARG:HG3	15:O3:268:GLY:HA2	1.50	0.90
9:I2:1308:THR:HG22	14:N3:414:ALA:HA	1.49	0.90
17:Q2:703:THR:HG21	17:Q2:709:PHE:CD1	2.05	0.90
25:X2:687:GLU:OE2	27:Z2:573:LYS:HD3	1.69	0.90
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:O	1.71	0.90
27:Z1:131:LEU:CD1	27:Z1:187:PHE:HE2	1.78	0.90
27:Z2:448:GLN:OE1	27:Z2:573:LYS:NZ	2.03	0.90
1:A3:1200:ARG:HB2	1:A4:591:ASP:OD1	1.71	0.90
9:I2:895:ARG:H	13:M3:587:GLU:HG3	1.36	0.90
9:I2:896:PRO:CG	13:M3:588:MET:CE	2.42	0.90
9:I2:964:SER:OG	16:P3:153:GLN:N	2.03	0.90
17:Q1:104:LYS:HD2	17:Q1:120:ILE:HD11	1.53	0.90
17:Q1:510:ASN:HB3	17:Q1:511:PRO:HD3	1.54	0.90
25:X2:699:TYR:OH	27:Z2:34:ARG:NH1	2.02	0.90
25:X2:778:LYS:HG2	25:X2:792:GLN:C	1.90	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1443:MET:CE	27:Z1:332:GLU:OE1	0.61	0.90
26:Y2:1392:ARG:NH1	27:Z2:690:ASP:CA	2.33	0.90
26:Y2:1435:LYS:HZ1	27:Z2:225:LEU:HD23	1.23	0.90
27:Z1:126:SER:N	27:Z1:147:GLU:CD	2.24	0.90
27:Z1:137:TYR:CD1	27:Z1:215:VAL:CG1	2.46	0.90
27:Z1:188:SER:HB2	27:Z1:195:TYR:CD2	2.05	0.90
27:Z1:209:TYR:HE1	27:Z1:335:MET:HB3	1.15	0.90
27:Z1:252:GLN:HE22	27:Z1:334:SER:C	1.75	0.90
27:Z1:289:PRO:O	27:Z1:289:PRO:CD	2.20	0.90
1:A3:1222:ALA:HA	1:A4:598:VAL:HB	1.52	0.90
6:F1:159:ALA:HA	9:I1:1335:LYS:HG2	1.51	0.90
6:F1:1052:CYS:O	9:I1:1388:GLU:OE2	1.89	0.90
9:I1:962:ILE:HD12	15:O1:184:ARG:N	1.80	0.90
9:I2:896:PRO:HB3	13:M3:585:LEU:HD23	1.52	0.90
9:I2:978:LYS:HE3	15:O3:178:ASP:O	1.71	0.90
9:I2:1035:GLN:HB3	16:P3:147:LEU:CB	2.00	0.90
9:I2:1099:ARG:HG2	15:O3:268:GLY:HA2	1.52	0.90
9:I2:1157:LEU:CD2	15:O3:263:GLN:HA	2.00	0.90
9:I2:1171:GLU:OE1	14:N3:427:VAL:HG11	1.69	0.90
17:Q1:332:LYS:HE2	17:Q1:352:TYR:CE2	2.07	0.90
17:Q1:384:ASN:CA	17:Q1:509:ALA:N	2.34	0.90
25:X2:658:TYR:CE2	25:X2:662:ILE:HD11	2.05	0.90
26:Y2:1212:ARG:CD	26:Y2:1213:LEU:HD23	2.01	0.90
27:Z1:69:PHE:CA	27:Z1:84:ASN:ND2	1.86	0.90
27:Z2:34:ARG:CG	27:Z2:95:TRP:CH2	2.52	0.90
27:Z2:35:ILE:HB	27:Z2:46:TYR:CZ	2.06	0.90
6:F1:158:PRO:HG2	9:I1:1340:LEU:H	1.30	0.90
9:I2:896:PRO:CA	13:M3:584:GLN:CG	2.38	0.90
17:Q1:611:ASN:HA	17:Q1:614:TRP:CE3	2.06	0.90
22:U1:209:PRO:CG	27:Z1:658:LEU:C	2.37	0.90
22:U1:248:LYS:HG2	25:X1:805:ARG:C	1.91	0.90
24:W1:534:ASP:OD2	24:W1:746:CYS:HA	1.71	0.90
26:Y1:1407:SER:HA	26:Y1:1410:GLN:HG2	1.51	0.90
26:Y2:1267:GLU:CA	26:Y2:1267:GLU:N	2.33	0.90
26:Y2:1317:TYR:CE1	27:Z1:48:VAL:O	2.23	0.90
26:Y2:1443:MET:CE	27:Z2:332:GLU:OE1	0.61	0.90
27:Z1:35:ILE:HB	27:Z1:46:TYR:CZ	2.05	0.90
27:Z1:145:LEU:HD11	27:Z1:149:ASP:OD1	1.71	0.90
9:I1:910:LYS:NZ	13:M1:546:ARG:H	1.70	0.90
9:I2:806:VAL:HG11	15:O3:247:TRP:HB3	1.36	0.90
17:Q2:510:ASN:HB3	17:Q2:511:PRO:HD3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:928:LYS:HE2	19:R2:695:ALA:CA	2.01	0.90
26:Y2:1321:MET:CA	27:Z1:51:ASP:N	2.35	0.90
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HD2	1.98	0.90
27:Z1:252:GLN:HB2	27:Z1:335:MET:HE2	1.51	0.90
27:Z2:137:TYR:CD1	27:Z2:215:VAL:CG1	2.46	0.90
27:Z2:209:TYR:HE1	27:Z2:335:MET:HB3	1.15	0.90
9:I2:810:GLU:H	15:O3:244:GLU:HB2	1.33	0.90
9:I2:911:PRO:HB3	15:O3:197:ARG:CD	2.01	0.90
9:I2:1029:LEU:HG	13:M3:613:ASP:CG	1.92	0.90
9:I2:1162:TYR:CB	15:O3:266:GLN:HE21	1.82	0.90
17:Q1:384:ASN:HB3	17:Q1:509:ALA:CA	2.00	0.90
17:Q2:104:LYS:HD2	17:Q2:120:ILE:HD11	1.53	0.90
17:Q2:1070:LEU:HB2	17:Q2:1071:PRO:HD3	1.51	0.90
18:R1:436:LEU:HD23	18:R1:448:ILE:O	1.71	0.90
19:R2:619:LYS:HE3	19:R2:623:PHE:HE2	1.37	0.90
25:X2:750:THR:CG2	25:X2:754:ASN:HD21	1.83	0.90
26:Y1:1402:LEU:HD23	26:Y1:1405:GLN:OE1	1.71	0.90
27:Z1:137:TYR:HB3	27:Z1:217:LEU:CD2	2.01	0.90
1:A3:1271:ILE:CG1	1:A4:730:THR:CG2	2.44	0.90
4:D1:1003:GLU:HA	1:A1:172:PRO:HB2	1.53	0.90
6:F2:1267:ARG:HH12	15:O4:262:ASP:CA	1.85	0.90
25:X1:815:GLU:CG	26:Y1:1402:LEU:HG	2.01	0.90
25:X2:815:GLU:CG	26:Y2:1402:LEU:HG	2.01	0.90
26:Y2:1345:LEU:HD23	26:Y2:1348:LYS:CD	2.01	0.90
27:Z1:252:GLN:HB3	27:Z1:335:MET:HG2	0.91	0.90
27:Z1:276:TYR:O	27:Z1:337:TRP:NE1	2.05	0.90
27:Z2:641:PHE:CZ	27:Z2:645:VAL:CG2	2.54	0.90
7:G2:254:ASN:HD22	15:O4:256:TYR:HB2	0.73	0.90
9:I2:968:PRO:CG	14:N3:300:ALA:CA	2.40	0.90
17:Q1:922:LEU:CD2	18:R1:688:LEU:CD2	2.50	0.90
25:X2:695:GLN:CG	27:Z2:431:TRP:HA	2.01	0.90
27:Z1:289:PRO:CD	27:Z1:350:LEU:HB3	2.02	0.90
27:Z2:7:LEU:CD1	27:Z2:581:PHE:HE1	1.85	0.90
1:A3:1083:SER:O	4:D3:1096:TYR:CZ	2.00	0.90
6:F1:1807:GLU:N	14:N2:412:ASN:CG	2.19	0.90
9:I2:813:ILE:CG2	15:O3:237:PRO:C	2.36	0.90
9:I2:891:LEU:N	13:M3:591:ASP:N	2.16	0.90
22:U1:243:PHE:CB	27:Z1:657:TYR:HA	2.00	0.90
25:X2:753:GLU:O	25:X2:756:ASN:ND2	2.05	0.90
25:X2:778:LYS:HG3	25:X2:794:ILE:C	1.92	0.90
26:Y2:1402:LEU:HD23	26:Y2:1405:GLN:OE1	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:292:GLY:O	27:Z1:295:TYR:HD1	1.51	0.90
27:Z1:389:TRP:HE3	27:Z1:393:LEU:CD1	1.76	0.90
27:Z2:149:ASP:CG	27:Z2:182:ILE:HG22	1.91	0.90
1:A2:1200:ARG:CB	1:A1:595:GLU:CB	2.49	0.89
1:A3:1332:ARG:CZ	4:D3:902:SER:HB2	2.02	0.89
9:I1:915:ALA:CB	15:O1:196:SER:HA	2.01	0.89
9:I1:977:ASN:HB2	15:O1:174:LEU:CA	2.02	0.89
9:I2:1305:LEU:CG	15:O3:260:LEU:HD12	2.02	0.89
17:Q2:824:ASN:HD21	17:Q2:833:GLU:HB2	1.37	0.89
22:U1:241:ARG:NH1	27:Z1:659:LYS:HZ2	1.68	0.89
22:U1:296:LEU:HA	27:Z1:657:TYR:H	1.29	0.89
25:X1:655:PHE:HZ	27:Z1:545:LEU:HB3	1.13	0.89
25:X1:753:GLU:O	25:X1:756:ASN:ND2	2.04	0.89
25:X2:702:ARG:HD2	27:Z2:49:LEU:HD21	1.51	0.89
26:Y1:1122:ILE:O	26:Y1:1122:ILE:HG13	1.69	0.89
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CD	2.34	0.89
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:CB	1.71	0.89
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:HB3	1.47	0.89
27:Z1:123:PRO:C	27:Z1:123:PRO:N	2.26	0.89
27:Z1:522:GLU:CB	27:Z1:523:ASN:CA	2.26	0.89
27:Z1:678:ASN:O	27:Z1:678:ASN:CG	2.09	0.89
27:Z2:126:SER:N	27:Z2:147:GLU:CD	2.24	0.89
27:Z2:276:TYR:O	27:Z2:337:TRP:NE1	2.05	0.89
1:A2:1221:ILE:HG12	1:A1:596:ARG:CD	2.01	0.89
9:I1:980:ILE:HD13	15:O1:175:SER:H	0.75	0.89
9:I1:1246:ILE:HG13	15:O1:255:GLY:HA3	1.53	0.89
9:I2:920:PHE:N	16:P3:157:GLU:OE1	2.06	0.89
9:I2:1026:TYR:CZ	13:M3:609:GLY:N	2.40	0.89
9:I2:1051:LYS:HD2	14:N3:289:PHE:HD1	1.33	0.89
17:Q2:476:GLN:OE1	17:Q2:514:PHE:CE1	2.23	0.89
25:X2:697:LEU:N	27:Z2:432:ASN:ND2	2.14	0.89
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:CG1	1.78	0.89
27:Z1:27:PHE:HE2	27:Z1:36:VAL:CG2	1.56	0.89
27:Z2:209:TYR:CD1	27:Z2:210:PRO:HD3	2.06	0.89
27:Z2:241:THR:CG2	27:Z2:246:LYS:HG3	2.00	0.89
27:Z2:282:GLN:CA	27:Z2:283:GLY:N	2.35	0.89
27:Z2:305:ILE:HG21	27:Z2:386:PHE:CZ	2.07	0.89
1:A3:1399:ARG:CD	4:D3:866:PHE:CD1	2.55	0.89
4:D1:468:LYS:HE3	1:A1:998:SER:C	1.92	0.89
6:F1:163:ASP:N	9:I1:1331:LYS:CB	2.31	0.89
6:F2:137:ASN:O	9:I2:1391:THR:CG2	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:976:ARG:O	15:O1:177:HIS:HB3	1.71	0.89
9:I2:810:GLU:CA	15:O3:241:SER:O	2.08	0.89
17:Q1:381:TYR:O	17:Q1:512:ILE:HG12	1.70	0.89
17:Q2:982:GLU:HB3	17:Q2:1104:ILE:HD11	1.52	0.89
22:U1:185:VAL:H	27:Z1:664:ARG:HH22	1.12	0.89
22:U1:297:LEU:C	27:Z1:653:GLN:C	2.15	0.89
25:X1:690:GLN:NE2	27:Z1:581:PHE:HE2	1.44	0.89
25:X2:690:GLN:NE2	27:Z2:581:PHE:HE2	1.44	0.89
25:X2:691:ASN:CB	27:Z2:431:TRP:NE1	2.35	0.89
25:X2:815:GLU:HG3	26:Y2:1402:LEU:HD11	1.53	0.89
26:Y2:1320:LEU:HD12	27:Z1:49:LEU:O	1.72	0.89
27:Z2:83:PHE:O	27:Z2:84:ASN:ND2	2.05	0.89
27:Z2:288:ASN:O	27:Z2:290:PHE:N	2.03	0.89
27:Z2:289:PRO:CD	27:Z2:350:LEU:HB3	2.02	0.89
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CD1	2.00	0.89
27:Z2:641:PHE:C	27:Z2:641:PHE:N	2.26	0.89
1:A3:1223:GLU:HG3	1:A4:648:TYR:CD2	2.07	0.89
9:I2:902:GLN:O	13:M3:577:LEU:HG	1.70	0.89
9:I2:1104:LEU:H	13:M3:611:LYS:NZ	1.59	0.89
17:Q2:615:GLU:CG	17:Q2:645:ILE:HG21	2.01	0.89
19:R2:627:THR:HG21	19:R2:663:LEU:CD1	2.03	0.89
25:X1:658:TYR:HD2	27:Z1:549:ILE:CD1	1.84	0.89
25:X1:789:GLU:HG2	27:Z1:680:TRP:NE1	1.85	0.89
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HB2	1.88	0.89
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:HG12	1.25	0.89
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:H	1.27	0.89
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CE1	2.44	0.89
27:Z1:83:PHE:O	27:Z1:84:ASN:ND2	2.06	0.89
27:Z1:158:ASN:HB2	27:Z1:161:GLU:CG	2.02	0.89
1:A3:1083:SER:O	4:D3:1096:TYR:CG	2.25	0.89
9:I2:896:PRO:HA	13:M3:584:GLN:HG2	1.54	0.89
9:I2:968:PRO:HG2	14:N3:300:ALA:C	1.91	0.89
9:I2:1254:VAL:HA	14:N3:408:MET:O	1.71	0.89
17:Q2:1012:GLU:HG2	17:Q2:1057:LEU:CD2	2.01	0.89
26:Y2:1212:ARG:HE	26:Y2:1213:LEU:HA	1.37	0.89
27:Z1:178:ARG:HH22	27:Z1:340:ASP:CG	1.76	0.89
27:Z2:252:GLN:HB3	27:Z2:335:MET:HG2	0.92	0.89
27:Z2:303:ALA:CB	27:Z2:363:LEU:HD21	2.01	0.89
6:F1:1267:ARG:HG2	15:O2:255:GLY:H	1.28	0.89
9:I2:899:LEU:CD2	13:M3:583:ASP:CB	2.34	0.89
17:Q2:332:LYS:HE2	17:Q2:352:TYR:CE2	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:857:LEU:CD1	17:Q2:915:GLU:O	2.21	0.89
17:Q2:922:LEU:HD21	19:R2:688:LEU:CG	2.02	0.89
18:R1:441:CYS:SG	18:R1:444:ALA:HB3	2.12	0.89
22:U1:192:ILE:HB	27:Z1:664:ARG:HG3	1.55	0.89
26:Y2:1333:ASP:N	27:Z1:94:PRO:HA	1.87	0.89
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CD1	2.00	0.89
27:Z1:381:ILE:HG22	27:Z1:417:ILE:CG1	2.02	0.89
27:Z2:289:PRO:O	27:Z2:289:PRO:CD	2.19	0.89
27:Z2:343:VAL:C	27:Z2:346:ASN:HD22	1.75	0.89
1:A4:1053:ARG:NE	4:D3:671:ARG:NH2	2.20	0.89
9:I1:1357:LYS:CE	15:O1:263:GLN:HA	2.03	0.89
17:Q1:615:GLU:CG	17:Q1:645:ILE:HG21	2.01	0.89
22:U1:295:GLU:HB2	27:Z1:657:TYR:CD2	2.08	0.89
24:W1:530:LYS:CB	24:W1:743:ASN:O	2.20	0.89
26:Y1:1277:LYS:CE	27:Z1:570:ILE:HB	2.03	0.89
27:Z1:305:ILE:HG21	27:Z1:386:PHE:CZ	2.08	0.89
27:Z1:361:LYS:HZ3	27:Z1:378:ASP:HB2	1.34	0.89
27:Z1:389:TRP:HE3	27:Z1:393:LEU:HD12	1.11	0.89
27:Z2:252:GLN:HE22	27:Z2:334:SER:C	1.75	0.89
6:F1:138:ILE:CG1	9:I1:1392:VAL:HG23	2.02	0.89
7:G2:252:LEU:C	15:O4:252:VAL:CG2	2.41	0.89
9:I1:922:ASP:HB3	15:O1:191:ARG:CB	2.03	0.89
9:I2:899:LEU:CA	13:M3:580:LYS:O	1.97	0.89
18:R1:627:THR:HG21	18:R1:663:LEU:CD1	2.03	0.89
22:U1:299:GLU:CB	27:Z1:652:GLN:CB	2.10	0.89
25:X2:790:ASN:HD21	27:Z2:680:TRP:HZ2	1.18	0.89
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:CD	2.50	0.89
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:CG	2.56	0.89
27:Z1:190:ASP:HA	27:Z1:311:GLN:HG3	1.55	0.89
27:Z2:116:ILE:HG12	27:Z2:124:LYS:HB3	1.55	0.89
27:Z2:158:ASN:HB2	27:Z2:161:GLU:CG	2.02	0.89
27:Z2:178:ARG:HH22	27:Z2:340:ASP:CG	1.75	0.89
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HD11	1.52	0.89
1:A2:1331:GLU:CB	4:D1:899:THR:O	2.21	0.89
1:A3:1330:VAL:HG22	4:D3:880:ASP:OD2	1.70	0.89
6:F1:156:LEU:HD12	9:I1:1340:LEU:HD22	1.50	0.89
6:F1:163:ASP:CG	9:I1:1331:LYS:HB3	1.93	0.89
9:I1:978:LYS:HB2	15:O1:180:ASP:CB	2.01	0.89
9:I1:1606:GLU:CG	9:I2:1669:ARG:NH2	2.21	0.89
17:Q2:752:GLN:HG3	17:Q2:808:TYR:HB2	1.55	0.89
25:X1:789:GLU:HG3	27:Z1:680:TRP:NE1	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1365:ILE:HG23	26:Y2:1386:ALA:HB3	1.55	0.89
26:Y2:1400:LYS:O	26:Y2:1404:GLU:CG	2.21	0.89
27:Z1:137:TYR:HB2	27:Z1:269:LYS:HD2	0.90	0.89
27:Z1:241:THR:CB	27:Z1:246:LYS:CE	2.20	0.89
27:Z1:428:TYR:OH	27:Z1:435:SER:OG	1.77	0.89
27:Z2:416:ASP:CB	27:Z2:569:LYS:NZ	2.36	0.89
1:A2:1204:TRP:CD1	1:A1:599:ARG:HB2	2.06	0.89
9:I1:911:PRO:CD	15:O1:202:LEU:CD1	2.51	0.89
9:I1:926:SER:HA	15:O1:184:ARG:HH11	1.37	0.89
9:I1:1051:LYS:CB	14:N1:293:LYS:HE2	1.88	0.89
9:I2:1098:LEU:HD22	15:O3:269:ILE:HG23	0.91	0.89
14:N3:267:GLU:HB3	14:N4:334:LEU:O	1.03	0.89
17:Q1:925:ASN:OD1	18:R1:691:THR:C	2.11	0.89
17:Q2:928:LYS:CE	19:R2:695:ALA:HB1	2.02	0.89
25:X1:696:SER:O	25:X1:700:ILE:HG12	1.71	0.89
25:X2:774:ASN:ND2	25:X2:798:ASN:OD1	2.06	0.89
27:Z1:27:PHE:HZ	27:Z1:36:VAL:HG21	1.32	0.89
27:Z1:241:THR:CG2	27:Z1:246:LYS:HG3	1.99	0.89
27:Z1:541:LYS:CG	27:Z2:554:HIS:N	2.36	0.89
27:Z2:55:HIS:CE1	27:Z2:98:SER:CB	2.56	0.89
1:A4:1053:ARG:CD	4:D3:671:ARG:NH2	2.34	0.88
6:F1:267:GLU:OE1	9:I1:1202:VAL:CG1	2.20	0.88
9:I2:925:LEU:HG	15:O3:186:PHE:CG	2.07	0.88
9:I2:1099:ARG:CZ	13:M3:610:SER:N	1.87	0.88
17:Q1:385:THR:HG23	17:Q1:507:ILE:HG23	0.89	0.88
17:Q1:1003:VAL:HG21	17:Q1:1037:LEU:HD13	1.55	0.88
18:R1:619:LYS:HE3	18:R1:623:PHE:HE2	1.36	0.88
25:X2:811:SER:C	26:Y2:1402:LEU:HD11	1.94	0.88
26:Y1:1389:SER:HB3	26:Y2:1357:ASN:ND2	1.86	0.88
26:Y2:1407:SER:HA	26:Y2:1410:GLN:HG2	1.51	0.88
27:Z1:24:ARG:CD	27:Z1:441:SER:O	2.21	0.88
27:Z1:137:TYR:CG	27:Z1:215:VAL:HG11	2.07	0.88
6:F1:154:SER:CB	9:I1:1344:GLN:HE21	1.84	0.88
9:I1:921:GLU:CB	15:O1:187:ASN:HA	2.03	0.88
9:I1:1667:GLN:HG3	9:I2:1669:ARG:CA	2.03	0.88
25:X1:665:TRP:CZ3	25:X1:669:LEU:HD11	2.08	0.88
25:X2:662:ILE:HD13	27:Z1:541:LYS:HZ3	1.37	0.88
25:X2:679:LEU:O	26:Y2:1281:MET:HE3	1.72	0.88
25:X2:696:SER:O	25:X2:700:ILE:HG12	1.71	0.88
25:X2:775:THR:CG2	25:X2:794:ILE:HD13	2.03	0.88
27:Z1:213:PRO:CG	27:Z1:216:LEU:HD23	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:282:GLN:CA	27:Z1:283:GLY:N	2.35	0.88
27:Z2:117:ASP:HB3	27:Z2:124:LYS:NZ	1.69	0.88
6:F1:1046:HIS:HD2	9:I1:1390:PHE:CE2	1.91	0.88
9:I1:962:ILE:O	15:O1:182:THR:N	2.00	0.88
9:I2:1254:VAL:CG2	14:N3:408:MET:O	2.21	0.88
17:Q1:382:ARG:HE	17:Q1:510:ASN:HA	1.36	0.88
25:X1:778:LYS:HG3	25:X1:778:LYS:C	1.93	0.88
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CD1	2.03	0.88
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:CD	2.50	0.88
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:HG3	1.74	0.88
27:Z1:303:ALA:CB	27:Z1:363:LEU:HD21	2.01	0.88
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CZ	2.27	0.88
1:A2:1281:LEU:HD12	1:A1:635:ARG:NH1	1.86	0.88
1:A2:1399:ARG:HB3	4:D1:872:LEU:HD13	1.53	0.88
1:A3:871:ASN:CB	4:D1:515:ASN:ND2	2.24	0.88
1:A3:1333:ARG:NH2	4:D3:880:ASP:OD1	2.06	0.88
6:F1:176:ARG:NE	9:I1:1201:PHE:CZ	2.15	0.88
6:F1:267:GLU:HG2	11:K1:638:PRO:HD2	1.56	0.88
7:G1:251:TYR:C	15:O2:247:TRP:H	1.65	0.88
9:I2:976:ARG:CG	14:N3:297:ALA:HB2	2.02	0.88
9:I2:1049:LEU:HB3	14:N3:293:LYS:HA	0.91	0.88
9:I2:1172:TYR:HB2	15:O3:273:ASP:OD2	1.73	0.88
9:I2:1305:LEU:HB2	15:O3:263:GLN:NE2	1.89	0.88
17:Q2:786:LEU:HD12	17:Q2:811:LEU:HD12	1.56	0.88
22:U1:243:PHE:CE2	27:Z1:660:SER:OG	2.14	0.88
25:X2:694:ASP:C	27:Z2:432:ASN:H	1.68	0.88
27:Z1:125:SER:CB	27:Z1:147:GLU:OE1	2.20	0.88
27:Z2:213:PRO:CG	27:Z2:216:LEU:HD23	2.03	0.88
27:Z2:289:PRO:C	27:Z2:289:PRO:CD	2.42	0.88
27:Z2:335:MET:SD	27:Z2:337:TRP:CZ3	2.67	0.88
1:A2:1331:GLU:CB	4:D1:899:THR:HA	2.03	0.88
9:I1:896:PRO:HB3	13:M1:583:ASP:HB3	1.21	0.88
9:I1:1669:ARG:NH1	9:I2:1611:PHE:C	2.26	0.88
9:I2:914:ASN:HA	15:O3:194:GLU:HA	1.56	0.88
9:I2:960:SER:CB	16:P3:154:ALA:C	2.42	0.88
26:Y1:1277:LYS:HZ2	27:Z1:571:ILE:H	1.21	0.88
26:Y2:1317:TYR:CD1	27:Z1:48:VAL:C	2.47	0.88
27:Z1:182:ILE:O	27:Z1:182:ILE:CG2	2.21	0.88
27:Z1:641:PHE:C	27:Z1:641:PHE:N	2.26	0.88
27:Z2:125:SER:CB	27:Z2:147:GLU:OE1	2.21	0.88
27:Z2:361:LYS:HZ3	27:Z2:378:ASP:HB2	1.32	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:434:GLN:CB	27:Z2:580:LYS:HZ2	1.86	0.88
1:A2:1274:ASP:HA	1:A1:727:ASN:HD21	1.36	0.88
1:A2:1386:GLU:OE2	1:A1:728:LYS:HE2	1.52	0.88
6:F1:158:PRO:HG2	9:I1:1339:LEU:CA	2.03	0.88
9:I2:895:ARG:NE	13:M3:585:LEU:O	2.04	0.88
9:I2:928:LEU:HD11	15:O3:180:ASP:H	1.09	0.88
9:I2:968:PRO:CB	14:N3:303:SER:CB	2.30	0.88
9:I2:976:ARG:NH1	16:P3:141:ALA:HB1	1.89	0.88
9:I2:1254:VAL:H	14:N3:411:GLN:H	1.11	0.88
17:Q1:316:ILE:CD1	17:Q1:331:LEU:HD21	2.04	0.88
17:Q2:568:LEU:HD22	17:Q2:588:ILE:HD11	1.56	0.88
17:Q2:700:GLU:CB	17:Q2:758:ILE:HG12	2.04	0.88
22:U1:295:GLU:CG	26:Y1:1367:LYS:HD2	2.03	0.88
25:X2:774:ASN:HB2	25:X2:794:ILE:C	1.94	0.88
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:HD22	2.07	0.88
27:Z1:35:ILE:HB	27:Z1:46:TYR:CD2	2.08	0.88
27:Z1:252:GLN:NE2	27:Z1:335:MET:HG2	1.88	0.88
27:Z1:335:MET:SD	27:Z1:337:TRP:CZ3	2.67	0.88
27:Z1:404:PRO:HD2	27:Z2:262:ASN:CB	2.01	0.88
27:Z1:429:ILE:CG2	27:Z1:431:TRP:CD1	2.57	0.88
27:Z2:230:SER:O	27:Z2:253:LEU:HD21	1.72	0.88
7:G1:249:ASP:O	13:M2:595:MET:HE3	1.73	0.88
9:I1:841:PHE:CD1	15:O1:191:ARG:NH2	2.41	0.88
9:I1:963:LEU:HD11	16:P1:152:LYS:HD3	1.55	0.88
9:I2:960:SER:HB3	16:P3:154:ALA:N	1.86	0.88
17:Q1:725:PHE:HD1	17:Q1:740:GLU:HG2	1.36	0.88
17:Q2:468:LEU:CD2	17:Q2:474:VAL:HG22	2.03	0.88
25:X1:742:GLN:HG3	25:X1:743:GLN:HG2	0.91	0.88
25:X1:795:LYS:CG	27:Z1:665:ILE:CG2	2.23	0.88
27:Z1:282:GLN:C	27:Z1:283:GLY:HA2	1.87	0.88
27:Z1:317:VAL:O	27:Z1:324:LEU:HD12	1.74	0.88
27:Z2:192:LEU:CD1	27:Z2:226:ILE:CD1	2.48	0.88
1:A2:1221:ILE:CG1	1:A1:596:ARG:HD2	2.04	0.88
1:A3:1084:ARG:HA	4:D3:1095:ARG:HD2	1.53	0.88
9:I1:754:ARG:CZ	13:M1:552:TYR:CD2	2.53	0.88
9:I1:1051:LYS:NZ	14:N1:290:VAL:HG22	1.82	0.88
9:I2:807:LEU:HD12	15:O3:248:SER:HB3	0.88	0.88
9:I2:1103:LEU:CD1	13:M3:611:LYS:CB	1.86	0.88
17:Q1:468:LEU:CD2	17:Q1:474:VAL:HG22	2.03	0.88
17:Q1:700:GLU:CB	17:Q1:758:ILE:HG12	2.04	0.88
17:Q1:824:ASN:HD21	17:Q1:833:GLU:HB2	1.36	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:433:ALA:HB1	18:R1:453:GLU:HB2	1.54	0.88
19:R2:633:THR:HG23	19:R2:636:VAL:HG21	1.52	0.88
25:X1:700:ILE:CG1	26:Y1:1298:TYR:CE1	2.57	0.88
25:X2:650:GLU:O	25:X2:654:HIS:CE1	2.26	0.88
25:X2:665:TRP:CZ3	25:X2:669:LEU:HD11	2.08	0.88
26:Y1:1400:LYS:O	26:Y1:1404:GLU:CG	2.21	0.88
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CD2	2.47	0.88
26:Y2:1332:LYS:CA	27:Z1:109:PHE:HE1	1.84	0.88
27:Z1:393:LEU:HD21	27:Z1:405:LEU:CD2	1.92	0.88
27:Z1:401:ASP:C	27:Z2:262:ASN:CA	2.12	0.88
27:Z1:541:LYS:CE	27:Z2:553:ILE:CG1	2.42	0.88
27:Z2:389:TRP:HE3	27:Z2:393:LEU:HD12	1.11	0.88
27:Z2:429:ILE:CG2	27:Z2:431:TRP:CD1	2.57	0.88
6:F1:135:VAL:O	9:I1:1392:VAL:HG21	1.74	0.88
6:F1:142:ALA:HB2	9:I1:1395:LEU:HG	1.54	0.88
9:I1:841:PHE:CD1	15:O1:191:ARG:NE	2.40	0.88
9:I1:911:PRO:CD	15:O1:202:LEU:HG	2.03	0.88
9:I2:809:HIS:NE2	15:O3:243:LEU:HG	1.87	0.88
9:I2:925:LEU:HD11	15:O3:186:PHE:CA	2.03	0.88
9:I2:1048:GLU:CD	14:N3:293:LYS:HE2	1.93	0.88
10:J1:252:LEU:CD1	15:O1:273:ASP:OD2	2.21	0.88
17:Q2:58:SER:CB	17:Q2:70:LYS:HE2	2.04	0.88
25:X2:774:ASN:HA	25:X2:797:LEU:CD1	2.02	0.88
25:X2:778:LYS:HB2	25:X2:794:ILE:HG12	1.53	0.88
26:Y1:1396:LEU:CD2	27:Z1:697:CYS:SG	2.60	0.88
26:Y2:1396:LEU:CD2	27:Z2:697:CYS:SG	2.60	0.88
27:Z2:356:LEU:HD13	27:Z2:358:ARG:HH21	1.39	0.88
27:Z2:440:MET:HG2	27:Z2:445:LEU:HD13	1.56	0.88
9:I2:960:SER:CB	16:P3:154:ALA:CA	2.52	0.88
9:I2:1026:TYR:HA	13:M3:611:LYS:HA	1.53	0.88
9:I2:1048:GLU:OE1	14:N3:293:LYS:CE	2.21	0.88
9:I2:1049:LEU:HB2	16:P3:141:ALA:HB3	1.55	0.88
17:Q1:346:LEU:CD1	17:Q1:367:ILE:HG12	2.04	0.88
17:Q2:316:ILE:CD1	17:Q2:331:LEU:HD21	2.04	0.88
17:Q2:847:LEU:HD21	17:Q2:875:PHE:CD2	2.09	0.88
25:X1:650:GLU:O	25:X1:654:HIS:CE1	2.26	0.88
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:HZ3	1.32	0.88
27:Z1:55:HIS:CE1	27:Z1:98:SER:CB	2.56	0.88
27:Z1:289:PRO:C	27:Z1:289:PRO:CD	2.42	0.88
27:Z1:326:LEU:HD22	27:Z1:352:GLU:OE2	1.74	0.88
27:Z2:46:TYR:CD1	27:Z2:54:TYR:HE1	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:945:ARG:HH21	9:I2:817:ASP:HB3	1.38	0.87
9:I1:961:ARG:CD	15:O1:186:PHE:C	2.41	0.87
9:I2:1049:LEU:CD1	16:P3:142:LEU:HA	2.04	0.87
9:I2:1305:LEU:CD2	15:O3:264:ILE:HG13	1.92	0.87
17:Q1:451:ASN:N	17:Q1:548:PRO:HB2	1.88	0.87
17:Q1:752:GLN:HG3	17:Q1:808:TYR:HB2	1.55	0.87
17:Q2:922:LEU:HD21	19:R2:688:LEU:CD2	2.04	0.87
25:X2:680:TYR:OH	27:Z2:439:LEU:HD11	1.74	0.87
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CZ	2.27	0.87
27:Z2:27:PHE:HZ	27:Z2:36:VAL:HG21	1.32	0.87
27:Z2:129:LYS:CE	27:Z2:185:LEU:HB2	2.01	0.87
27:Z2:263:TRP:HA	27:Z2:270:VAL:HG22	1.53	0.87
9:I1:1106:LYS:CE	13:M1:611:LYS:HG3	2.04	0.87
17:Q2:517:PRO:HA	17:Q2:520:ILE:HG22	1.56	0.87
25:X2:704:GLN:OE1	27:Z2:598:LEU:HD11	1.74	0.87
25:X2:726:VAL:CG1	25:X2:727:SER:N	2.37	0.87
26:Y2:1337:HIS:ND1	27:Z1:111:ILE:CD1	2.38	0.87
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CG1	2.56	0.87
27:Z2:35:ILE:HB	27:Z2:46:TYR:CD2	2.08	0.87
27:Z2:252:GLN:NE2	27:Z2:335:MET:HG2	1.88	0.87
27:Z2:263:TRP:CH2	27:Z2:265:SER:HA	2.10	0.87
1:A1:827:ILE:HG23	1:A1:849:SER:C	1.90	0.87
1:A2:1233:GLN:HG2	1:A1:587:VAL:HG13	1.55	0.87
1:A2:1332:ARG:CG	4:D1:905:SER:HB2	2.04	0.87
1:A4:127:HIS:N	4:D3:1010:ALA:HB1	1.87	0.87
9:I1:838:GLU:CB	15:O1:198:ARG:NH2	2.28	0.87
9:I1:916:ALA:HB1	14:N1:315:VAL:HG22	1.55	0.87
9:I2:899:LEU:N	13:M3:584:GLN:CD	2.25	0.87
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB3	0.80	0.87
17:Q1:166:ILE:HB	17:Q1:173:ILE:CG2	2.04	0.87
17:Q2:103:LYS:HA	17:Q2:103:LYS:HE3	1.56	0.87
17:Q2:725:PHE:CG	17:Q2:744:LYS:HG3	2.09	0.87
25:X1:649:THR:HG23	26:Y2:1231:ASN:HD21	1.38	0.87
25:X1:665:TRP:NE1	26:Y1:1267:GLU:HB2	1.46	0.87
25:X1:676:ILE:HD11	26:Y1:1274:ASN:ND2	1.89	0.87
25:X1:811:SER:C	26:Y1:1402:LEU:HD11	1.94	0.87
25:X2:644:TRP:CE2	25:X2:648:LEU:HD11	2.09	0.87
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CD1	2.55	0.87
25:X2:700:ILE:CG1	26:Y2:1298:TYR:CE1	2.57	0.87
26:Y1:1316:GLU:CG	27:Z1:609:LEU:HD22	2.04	0.87
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HZ2	1.86	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:164:ILE:CD1	27:Z1:277:ARG:NH1	2.37	0.87
4:D1:673:LEU:HD21	1:A1:1094:ILE:CG2	2.05	0.87
7:G2:249:ASP:HA	15:O4:251:ILE:HD13	1.54	0.87
9:I2:906:GLY:C	13:M3:573:ARG:HD2	1.93	0.87
9:I2:1051:LYS:CG	14:N3:289:PHE:HD1	1.87	0.87
17:Q2:108:TRP:NE1	17:Q2:110:ILE:HD13	1.89	0.87
17:Q2:166:ILE:HB	17:Q2:173:ILE:CG2	2.04	0.87
22:U1:289:GLN:CG	25:X1:794:ILE:CG2	2.52	0.87
22:U1:296:LEU:CG	27:Z1:653:GLN:O	2.22	0.87
25:X1:704:GLN:OE1	27:Z1:598:LEU:HD11	1.74	0.87
25:X2:655:PHE:CE1	27:Z1:534:GLU:OE2	2.28	0.87
25:X2:676:ILE:HD11	26:Y2:1274:ASN:ND2	1.89	0.87
26:Y1:1295:VAL:O	26:Y1:1299:VAL:HG23	1.73	0.87
26:Y1:1383:ALA:O	26:Y2:1361:GLU:HG2	1.75	0.87
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:CD2	2.58	0.87
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HD11	1.52	0.87
27:Z1:544:THR:CB	27:Z2:554:HIS:ND1	2.23	0.87
27:Z2:137:TYR:HB2	27:Z2:269:LYS:HD2	0.90	0.87
1:A3:1331:GLU:HG2	4:D3:874:ALA:N	1.76	0.87
1:A3:1400:SER:O	4:D3:873:GLN:CB	2.17	0.87
6:F1:1265:GLN:CG	15:O2:252:VAL:H	1.86	0.87
9:I1:966:TRP:CE2	15:O1:183:VAL:CG1	2.56	0.87
9:I2:1098:LEU:CD2	15:O3:269:ILE:CG2	2.46	0.87
17:Q2:852:ILE:HD11	17:Q2:913:LYS:HZ2	1.12	0.87
25:X1:795:LYS:HE2	27:Z1:665:ILE:C	1.94	0.87
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD13	2.05	0.87
26:Y2:1295:VAL:O	26:Y2:1299:VAL:HG23	1.73	0.87
27:Z1:356:LEU:HD13	27:Z1:358:ARG:HH21	1.38	0.87
27:Z1:358:ARG:NH2	27:Z1:382:GLN:CD	2.28	0.87
27:Z2:294:LEU:CD1	27:Z2:325:ILE:HD11	2.05	0.87
1:A4:624:ASP:C	4:D3:980:ARG:HD2	1.92	0.87
7:G1:252:LEU:O	15:O2:243:LEU:HD23	1.70	0.87
9:I1:910:LYS:HA	13:M1:548:LEU:HD13	1.54	0.87
9:I1:911:PRO:CG	15:O1:202:LEU:CG	2.51	0.87
9:I1:966:TRP:HB3	15:O1:176:ARG:O	1.74	0.87
9:I1:1048:GLU:CD	15:O1:171:ASP:N	2.26	0.87
9:I2:982:GLN:CB	15:O3:179:LEU:HD12	1.69	0.87
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CD1	2.04	0.87
26:Y1:1410:GLN:N	27:Z1:711:LYS:HE2	1.89	0.87
26:Y2:1333:ASP:N	26:Y2:1333:ASP:HA	1.89	0.87
27:Z1:294:LEU:CD1	27:Z1:325:ILE:HD11	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:282:GLN:O	27:Z2:283:GLY:CA	2.18	0.87
1:A3:1222:ALA:HB1	1:A4:598:VAL:HG23	1.56	0.87
1:A3:1332:ARG:HH21	4:D3:903:ILE:H	0.89	0.87
7:G1:253:SER:CA	15:O2:243:LEU:HD23	2.04	0.87
26:Y2:1368:LEU:N	26:Y2:1383:ALA:HB3	1.90	0.87
27:Z1:192:LEU:CD1	27:Z1:226:ILE:CD1	2.48	0.87
27:Z2:148:ASP:HB3	27:Z2:150:THR:HG23	1.56	0.87
1:A2:1221:ILE:C	1:A1:599:ARG:HB3	1.94	0.87
1:A3:1222:ALA:HB2	1:A4:598:VAL:N	1.90	0.87
6:F1:142:ALA:CB	9:I1:1394:ASN:C	2.37	0.87
7:G1:254:ASN:ND2	15:O2:250:LEU:HB2	1.89	0.87
9:I1:910:LYS:O	13:M1:545:GLU:CG	2.23	0.87
9:I1:977:ASN:ND2	15:O1:178:ASP:N	2.21	0.87
13:M1:473:ARG:NH2	13:M2:536:GLU:OE2	2.08	0.87
17:Q1:139:ILE:CG2	17:Q1:165:ILE:HB	2.04	0.87
17:Q1:276:LEU:HD11	17:Q1:282:LEU:CD2	2.05	0.87
17:Q1:786:LEU:HD12	17:Q1:811:LEU:HD12	1.56	0.87
17:Q2:929:LEU:HD22	19:R2:691:THR:HB	1.54	0.87
18:R1:631:ILE:CD1	18:R1:632:LYS:HG3	2.05	0.87
22:U1:204:VAL:O	27:Z1:668:GLU:CD	2.13	0.87
25:X2:685:MET:HG2	27:Z2:445:LEU:HB3	1.54	0.87
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:CG2	2.05	0.87
27:Z2:317:VAL:O	27:Z2:324:LEU:HD12	1.74	0.87
1:A2:1091:VAL:HA	4:D1:1104:GLU:CG	2.05	0.87
1:A3:1221:ILE:HG12	1:A4:592:ASP:O	1.74	0.87
1:A3:1223:GLU:CG	1:A4:647:GLU:CB	2.53	0.87
6:F1:141:ALA:CB	9:I1:1390:PHE:CG	2.52	0.87
9:I1:981:VAL:HG11	15:O1:176:ARG:HE	1.38	0.87
9:I2:979:ALA:N	15:O3:178:ASP:CG	2.24	0.87
9:I2:1308:THR:HG22	14:N3:414:ALA:CB	2.04	0.87
17:Q1:725:PHE:CG	17:Q1:744:LYS:HG3	2.09	0.87
17:Q2:139:ILE:CG2	17:Q2:165:ILE:HB	2.04	0.87
17:Q2:346:LEU:CD1	17:Q2:367:ILE:HG12	2.04	0.87
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG23	1.88	0.87
25:X2:695:GLN:HE21	27:Z2:431:TRP:CE2	1.30	0.87
25:X2:765:LEU:CD2	27:Z2:652:GLN:CD	2.16	0.87
26:Y2:1316:GLU:CG	27:Z2:609:LEU:HD22	2.04	0.87
27:Z1:325:ILE:CG2	27:Z1:350:LEU:HD11	1.92	0.87
27:Z2:358:ARG:NH2	27:Z2:382:GLN:CD	2.28	0.87
27:Z2:522:GLU:CD	27:Z2:524:GLN:H	1.69	0.87
1:A2:1280:GLN:C	1:A1:635:ARG:HD2	1.95	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1204:TRP:HD1	1:A4:595:GLU:HG3	1.38	0.86
1:A3:1223:GLU:HG3	1:A4:648:TYR:CG	2.06	0.86
1:A4:1053:ARG:HE	4:D3:671:ARG:HH22	0.90	0.86
6:F1:138:ILE:HG23	9:I1:1391:THR:HG22	1.57	0.86
9:I2:914:ASN:HD22	15:O3:194:GLU:HB3	1.04	0.86
9:I2:917:TYR:CD2	15:O3:190:ARG:NH1	2.42	0.86
17:Q1:943:THR:HA	17:Q1:946:LYS:HE3	1.57	0.86
19:R2:631:ILE:CD1	19:R2:632:LYS:HG3	2.05	0.86
22:U1:191:ALA:C	27:Z1:664:ARG:NH1	2.29	0.86
27:Z1:179:VAL:HG22	27:Z1:206:PHE:HD2	1.26	0.86
27:Z1:538:ARG:CA	27:Z2:551:ASN:H	1.88	0.86
27:Z2:190:ASP:HA	27:Z2:311:GLN:HG3	1.55	0.86
1:A2:1204:TRP:CE2	1:A1:598:VAL:HG12	2.11	0.86
1:A2:1223:GLU:OE2	1:A1:610:THR:HG22	1.75	0.86
1:A3:1332:ARG:NH2	4:D3:902:SER:CB	2.04	0.86
6:F1:1046:HIS:CD2	9:I1:1390:PHE:CD2	2.62	0.86
9:I1:916:ALA:HB3	13:M1:534:GLN:HG2	1.57	0.86
9:I1:960:SER:O	15:O1:182:THR:HG22	1.75	0.86
9:I2:888:GLU:CD	13:M3:593:ALA:O	2.07	0.86
9:I2:966:TRP:CB	15:O3:178:ASP:OD1	2.23	0.86
9:I2:1107:SER:CA	13:M3:615:PRO:HG3	2.05	0.86
17:Q1:58:SER:CB	17:Q1:70:LYS:HE2	2.04	0.86
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:HD2	1.38	0.86
17:Q1:847:LEU:HD21	17:Q1:875:PHE:CD2	2.09	0.86
17:Q2:552:THR:CA	17:Q2:556:HIS:HB2	2.06	0.86
19:R2:538:LEU:HG	19:R2:659:TYR:CE1	2.11	0.86
25:X2:752:ASP:CG	26:Y2:1345:LEU:HD11	1.95	0.86
26:Y2:1294:LYS:HD3	27:Z2:588:TRP:CD1	2.08	0.86
27:Z2:129:LYS:CD	27:Z2:145:LEU:HD23	2.00	0.86
27:Z2:326:LEU:HD22	27:Z2:352:GLU:OE2	1.75	0.86
6:F1:138:ILE:HD11	9:I1:1388:GLU:HA	1.56	0.86
9:I1:896:PRO:C	13:M1:580:LYS:HA	1.80	0.86
17:Q1:451:ASN:N	17:Q1:548:PRO:CB	2.38	0.86
17:Q1:503:TYR:CE1	17:Q1:538:ILE:HG13	2.09	0.86
17:Q2:503:TYR:CE1	17:Q2:538:ILE:HG13	2.09	0.86
17:Q2:553:LEU:CD2	17:Q2:632:LYS:HB3	2.06	0.86
17:Q2:654:VAL:CG1	17:Q2:666:LYS:HE2	2.04	0.86
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD13	2.05	0.86
26:Y1:1407:SER:HA	26:Y1:1410:GLN:CG	2.05	0.86
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:HZ2	1.38	0.86
26:Y2:1333:ASP:N	27:Z1:109:PHE:HE1	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:364:ILE:CG2	27:Z1:374:TYR:HB2	2.05	0.86
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CG1	2.55	0.86
1:A3:937:ASP:OD2	9:I2:815:ILE:HG23	1.74	0.86
9:I1:909:ARG:CA	13:M1:548:LEU:CD2	2.53	0.86
9:I1:963:LEU:HD13	16:P1:152:LYS:HD3	1.57	0.86
9:I2:1033:PRO:HG2	13:M3:619:ILE:N	1.89	0.86
17:Q1:517:PRO:HA	17:Q1:520:ILE:HG22	1.56	0.86
17:Q1:654:VAL:CG1	17:Q1:666:LYS:HE2	2.04	0.86
25:X2:676:ILE:HD11	26:Y2:1274:ASN:CG	1.95	0.86
26:Y2:1317:TYR:CG	27:Z1:48:VAL:O	2.28	0.86
26:Y2:1410:GLN:N	27:Z2:711:LYS:HE2	1.89	0.86
27:Z2:303:ALA:HB3	27:Z2:363:LEU:HD22	1.58	0.86
27:Z2:448:GLN:CB	27:Z2:573:LYS:NZ	2.39	0.86
1:A2:1221:ILE:CA	1:A1:599:ARG:HB3	2.05	0.86
1:A3:1088:ASN:C	4:D3:1101:HIS:HE1	1.79	0.86
9:I1:904:GLU:N	13:M1:576:LYS:CB	2.35	0.86
9:I1:978:LYS:CG	15:O1:176:ARG:NH1	2.33	0.86
9:I2:1254:VAL:CA	14:N3:408:MET:C	2.44	0.86
17:Q2:276:LEU:HD11	17:Q2:282:LEU:CD2	2.05	0.86
17:Q2:856:LYS:HB2	17:Q2:859:ASP:HB2	1.57	0.86
18:R1:538:LEU:HG	18:R1:659:TYR:CE1	2.11	0.86
22:U1:340:LYS:NZ	27:Z1:642:ASN:OD1	2.06	0.86
25:X1:752:ASP:CG	26:Y1:1345:LEU:HD11	1.96	0.86
26:Y1:1452:PHE:CE2	27:Z1:402:LEU:HD13	2.10	0.86
26:Y2:1211:LEU:CA	26:Y2:1212:ARG:N	2.38	0.86
26:Y2:1277:LYS:HZ2	27:Z2:571:ILE:H	1.18	0.86
26:Y2:1362:LEU:CA	26:Y2:1387:LYS:HD2	2.05	0.86
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:H	1.39	0.86
26:Y2:1407:SER:HA	26:Y2:1410:GLN:CG	2.05	0.86
27:Z2:362:SER:OG	27:Z2:376:ILE:HB	1.74	0.86
1:A2:1328:ARG:HD3	4:D1:976:ARG:CD	2.05	0.86
9:I1:1363:GLU:CG	15:O1:266:GLN:HG2	2.06	0.86
9:I2:900:ARG:N	13:M3:584:GLN:OE1	2.07	0.86
9:I2:1099:ARG:HG3	15:O3:268:GLY:CA	2.05	0.86
9:I2:1099:ARG:NH2	13:M3:610:SER:HA	1.89	0.86
17:Q2:891:ILE:HD13	19:R2:715:LEU:HD22	0.87	0.86
25:X1:742:GLN:CD	25:X1:743:GLN:HG3	1.95	0.86
26:Y1:1389:SER:CB	26:Y2:1357:ASN:CG	2.44	0.86
27:Z1:241:THR:HB	27:Z1:246:LYS:NZ	1.91	0.86
27:Z2:241:THR:HB	27:Z2:246:LYS:NZ	1.91	0.86
6:F1:267:GLU:HG2	11:K1:638:PRO:CD	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:963:LEU:CD1	16:P3:147:LEU:O	2.20	0.86
10:J1:250:THR:OG1	15:O1:277:GLU:HB2	1.04	0.86
10:J1:252:LEU:CD2	15:O1:269:ILE:HG22	2.04	0.86
17:Q1:294:THR:CG2	17:Q1:308:ILE:HG12	2.05	0.86
17:Q1:552:THR:CA	17:Q1:556:HIS:HB2	2.06	0.86
17:Q2:417:LEU:CD2	17:Q2:426:ILE:HG22	2.06	0.86
22:U1:209:PRO:CD	27:Z1:660:SER:C	2.40	0.86
24:W1:530:LYS:HG3	24:W1:745:GLU:C	1.94	0.86
25:X2:686:ALA:HA	27:Z2:8:SER:HB2	1.57	0.86
25:X2:789:GLU:HB2	27:Z2:680:TRP:CE3	2.11	0.86
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:CG2	2.05	0.86
27:Z1:45:TRP:CH2	27:Z1:95:TRP:CZ3	2.64	0.86
27:Z1:263:TRP:CH2	27:Z1:265:SER:HA	2.10	0.86
27:Z2:241:THR:CG2	27:Z2:246:LYS:HG2	2.06	0.86
1:A3:1082:LEU:O	4:D3:1096:TYR:OH	1.92	0.86
6:F1:158:PRO:CG	9:I1:1339:LEU:N	2.36	0.86
9:I1:1606:GLU:CD	9:I2:1669:ARG:CZ	2.44	0.86
9:I2:1030:ARG:N	13:M3:612:PRO:C	2.29	0.86
9:I2:1308:THR:H	14:N3:414:ALA:CA	1.85	0.86
17:Q1:140:LEU:HD23	17:Q1:141:THR:N	1.91	0.86
17:Q2:553:LEU:CD1	17:Q2:629:LEU:HD22	2.06	0.86
17:Q2:1066:PHE:CB	17:Q2:1144:LYS:HE3	1.99	0.86
24:W1:526:ARG:HB2	24:W1:740:PHE:N	1.91	0.86
27:Z1:94:PRO:CB	27:Z1:109:PHE:HZ	1.88	0.86
27:Z1:129:LYS:CE	27:Z1:185:LEU:HB2	2.01	0.86
27:Z1:148:ASP:HB3	27:Z1:150:THR:HG23	1.56	0.86
27:Z1:331:LEU:HD12	27:Z1:347:SER:HB2	1.56	0.86
27:Z2:141:CYS:SG	27:Z2:213:PRO:CB	2.63	0.86
27:Z2:393:LEU:CD2	27:Z2:405:LEU:HD22	1.91	0.86
1:A1:827:ILE:HD13	1:A1:849:SER:OG	1.76	0.86
1:A2:1237:LEU:HD11	1:A1:588:SER:CA	2.06	0.86
6:F2:1267:ARG:HH11	15:O4:262:ASP:HB2	1.03	0.86
9:I1:1050:SER:C	14:N1:293:LYS:CG	2.45	0.86
9:I2:911:PRO:HB2	15:O3:197:ARG:CD	2.05	0.86
9:I2:919:ALA:CA	16:P3:157:GLU:OE1	2.24	0.86
9:I2:1033:PRO:HG3	13:M3:616:LEU:CA	1.96	0.86
17:Q1:108:TRP:NE1	17:Q1:110:ILE:HD13	1.89	0.86
18:R1:558:ILE:HG23	18:R1:581:LEU:HD13	1.58	0.86
22:U1:192:ILE:N	27:Z1:664:ARG:HH12	1.67	0.86
27:Z2:303:ALA:HB2	27:Z2:363:LEU:HD22	0.86	0.86
27:Z2:437:LEU:HD12	27:Z2:448:GLN:HE22	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1328:ARG:HD2	4:D1:976:ARG:NE	1.88	0.86
1:A4:625:LEU:O	4:D3:977:GLU:OE2	1.75	0.86
6:F1:267:GLU:OE2	11:K1:638:PRO:CD	2.23	0.86
6:F2:132:THR:HG21	9:I2:1334:PRO:HA	0.87	0.86
7:G1:251:TYR:CD2	15:O2:244:GLU:CA	2.57	0.86
9:I2:911:PRO:CB	15:O3:197:ARG:HG2	2.06	0.86
10:J2:247:ASP:CG	15:O3:279:ILE:CD1	2.44	0.86
17:Q2:960:ILE:CD1	17:Q2:1005:LEU:HD12	2.06	0.86
22:U1:297:LEU:CA	27:Z1:654:ASP:OD1	2.23	0.86
26:Y1:1294:LYS:HD3	27:Z1:588:TRP:CD1	2.08	0.86
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CB	2.23	0.86
26:Y2:1452:PHE:CE2	27:Z2:402:LEU:HD13	2.10	0.86
27:Z1:46:TYR:CD1	27:Z1:54:TYR:HE1	1.91	0.86
27:Z1:312:ASN:HD21	27:Z1:397:ILE:HD12	1.41	0.86
27:Z1:362:SER:OG	27:Z1:376:ILE:HB	1.75	0.86
6:F2:140:GLU:N	9:I2:1391:THR:HG22	1.88	0.85
9:I2:900:ARG:H	13:M3:584:GLN:CD	1.79	0.85
9:I2:914:ASN:ND2	15:O3:194:GLU:OE1	2.09	0.85
9:I2:976:ARG:NH1	16:P3:141:ALA:CB	2.39	0.85
9:I2:1048:GLU:C	16:P3:141:ALA:HB2	1.95	0.85
25:X1:676:ILE:HD11	26:Y1:1274:ASN:CG	1.95	0.85
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:CD1	1.72	0.85
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CD2	2.47	0.85
27:Z1:24:ARG:HD2	27:Z1:441:SER:O	1.76	0.85
27:Z2:12:ILE:HD11	27:Z2:44:ARG:HB3	1.58	0.85
27:Z2:326:LEU:HB3	27:Z2:352:GLU:CG	2.06	0.85
27:Z2:364:ILE:CG2	27:Z2:374:TYR:HB2	2.05	0.85
1:A3:1221:ILE:CA	1:A4:595:GLU:HG2	2.02	0.85
9:I1:904:GLU:OE2	13:M1:577:LEU:HG	1.75	0.85
9:I1:977:ASN:CA	15:O1:177:HIS:N	1.78	0.85
9:I2:963:LEU:C	16:P3:152:LYS:HG3	1.76	0.85
9:I2:968:PRO:HG2	14:N3:300:ALA:HA	0.86	0.85
9:I2:1103:LEU:HA	15:O3:275:LEU:CD2	2.06	0.85
17:Q2:294:THR:CG2	17:Q2:308:ILE:HG12	2.05	0.85
17:Q2:532:LYS:HB2	17:Q2:581:PRO:HD3	1.56	0.85
17:Q2:706:LEU:HB3	17:Q2:707:PRO:HD3	1.58	0.85
17:Q2:847:LEU:HD21	17:Q2:875:PHE:HD2	1.40	0.85
26:Y1:1305:GLN:HE22	27:Z1:595:GLN:HB2	1.41	0.85
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HD3	2.06	0.85
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HD3	2.06	0.85
9:I1:981:VAL:HG12	15:O1:176:ARG:CG	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:895:ARG:HG3	13:M3:583:ASP:O	1.75	0.85
9:I2:1108:PRO:C	15:O3:281:ALA:CB	2.45	0.85
9:I2:1168:ALA:N	15:O3:270:THR:OG1	2.09	0.85
9:I2:1305:LEU:CD1	15:O3:263:GLN:OE1	2.18	0.85
10:J1:247:ASP:HB3	15:O1:277:GLU:N	1.89	0.85
17:Q1:814:LEU:HD12	17:Q1:815:VAL:N	1.91	0.85
22:U1:243:PHE:HA	27:Z1:657:TYR:HB2	1.58	0.85
22:U1:299:GLU:HB2	27:Z1:652:GLN:HB2	1.53	0.85
25:X1:644:TRP:CE2	25:X1:648:LEU:HD11	2.09	0.85
25:X2:680:TYR:O	27:Z2:446:THR:HG22	1.74	0.85
27:Z1:541:LYS:CE	27:Z2:549:ILE:O	2.24	0.85
1:A4:827:ILE:CD1	1:A4:849:SER:N	2.39	0.85
4:D1:468:LYS:HD2	1:A1:999:SER:HG	1.41	0.85
6:F1:158:PRO:HB2	9:I1:1339:LEU:HB2	1.55	0.85
7:G1:249:ASP:C	15:O2:247:TRP:HE1	1.76	0.85
9:I1:966:TRP:CZ2	15:O1:183:VAL:HG11	2.12	0.85
9:I1:979:ALA:N	15:O1:176:ARG:HA	1.70	0.85
9:I2:919:ALA:CB	16:P3:157:GLU:CD	2.33	0.85
9:I2:1167:ALA:HB3	15:O3:270:THR:OG1	1.76	0.85
17:Q1:384:ASN:CB	17:Q1:509:ALA:N	1.85	0.85
17:Q1:417:LEU:CD2	17:Q1:426:ILE:HG22	2.06	0.85
19:R2:711:LEU:HA	19:R2:714:TYR:CD2	2.12	0.85
26:Y2:1212:ARG:N	26:Y2:1215:GLU:OE1	2.10	0.85
26:Y2:1277:LYS:CE	27:Z2:570:ILE:HB	2.03	0.85
26:Y2:1338:GLN:HG2	27:Z1:108:ALA:HB2	1.59	0.85
27:Z2:7:LEU:N	27:Z2:9:ALA:N	2.20	0.85
27:Z2:164:ILE:CD1	27:Z2:277:ARG:NH1	2.38	0.85
9:I2:964:SER:H	16:P3:152:LYS:CA	1.88	0.85
17:Q1:960:ILE:CD1	17:Q1:1005:LEU:HD12	2.06	0.85
17:Q2:606:GLN:O	17:Q2:609:VAL:HG12	1.77	0.85
17:Q2:1003:VAL:HG21	17:Q2:1037:LEU:HD13	1.55	0.85
24:W1:293:LEU:HD13	24:W1:297:LEU:HD12	1.58	0.85
25:X2:690:GLN:CA	27:Z2:7:LEU:HD22	2.05	0.85
25:X2:695:GLN:NE2	27:Z2:431:TRP:CZ2	2.45	0.85
26:Y1:1336:THR:HG22	26:Y1:1340:ARG:HD2	1.58	0.85
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:HB2	2.11	0.85
26:Y2:1368:LEU:HB2	26:Y2:1382:VAL:C	1.97	0.85
27:Z1:57:LEU:O	27:Z1:57:LEU:HG	1.76	0.85
27:Z1:141:CYS:SG	27:Z1:213:PRO:CB	2.63	0.85
27:Z1:149:ASP:CG	27:Z1:182:ILE:HB	1.97	0.85
27:Z2:24:ARG:N	27:Z2:24:ARG:HA	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:331:LEU:HD12	27:Z2:347:SER:HB2	1.56	0.85
1:A1:827:ILE:CD1	1:A1:849:SER:N	2.39	0.85
1:A2:1333:ARG:C	4:D1:906:ARG:CZ	2.25	0.85
1:A3:1271:ILE:CG1	1:A4:730:THR:HG22	1.92	0.85
9:I1:1315:GLN:HB2	15:O1:266:GLN:C	1.96	0.85
9:I2:919:ALA:N	16:P3:157:GLU:CB	2.24	0.85
17:Q1:103:LYS:HE3	17:Q1:103:LYS:HA	1.56	0.85
17:Q1:553:LEU:CD2	17:Q1:632:LYS:HB3	2.06	0.85
25:X2:686:ALA:CA	27:Z2:8:SER:CB	2.55	0.85
25:X2:721:LEU:CD1	27:Z2:612:ILE:HD11	2.06	0.85
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:HG22	1.58	0.85
26:Y2:1305:GLN:OE1	27:Z2:599:MET:HG3	1.77	0.85
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:CB	1.89	0.85
27:Z1:437:LEU:CD2	27:Z1:450:ILE:HD11	2.06	0.85
27:Z2:45:TRP:CH2	27:Z2:95:TRP:CZ3	2.64	0.85
27:Z2:263:TRP:HZ3	27:Z2:265:SER:CA	1.86	0.85
27:Z2:312:ASN:HD21	27:Z2:397:ILE:HD12	1.41	0.85
27:Z2:387:MET:HE3	27:Z2:391:SER:HB2	1.57	0.85
27:Z2:625:HIS:CE1	27:Z2:628:MET:HB3	2.11	0.85
1:A3:1331:GLU:HG3	4:D3:873:GLN:C	1.96	0.85
9:I1:965:ALA:HB2	15:O1:185:ALA:HB2	1.56	0.85
9:I2:919:ALA:HB2	16:P3:157:GLU:HA	0.86	0.85
9:I2:1253:GLY:HA2	14:N3:410:MET:CB	2.07	0.85
17:Q1:1119:GLN:O	17:Q1:1122:THR:HG22	1.77	0.85
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:HG22	1.58	0.85
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:HD23	2.07	0.85
26:Y2:1334:LEU:CB	27:Z1:108:ALA:CB	2.41	0.85
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HE2	1.92	0.85
27:Z2:158:ASN:HB2	27:Z2:161:GLU:OE2	1.77	0.85
27:Z2:437:LEU:CD2	27:Z2:450:ILE:HD11	2.06	0.85
27:Z2:522:GLU:HG2	27:Z2:524:GLN:N	1.91	0.85
6:F1:1053:LEU:HD23	9:I1:1388:GLU:HG2	1.55	0.85
9:I2:964:SER:H	16:P3:152:LYS:N	1.74	0.85
17:Q1:465:LEU:HD13	17:Q1:466:TYR:N	1.92	0.85
25:X2:745:TYR:CG	27:Z1:104:SER:HB2	2.12	0.85
26:Y1:1298:TYR:CZ	26:Y1:1302:ASP:OD2	2.29	0.85
27:Z1:12:ILE:HD11	27:Z1:44:ARG:HB3	1.58	0.85
27:Z1:116:ILE:HD11	27:Z1:124:LYS:HB2	1.57	0.85
27:Z1:395:LYS:NZ	27:Z2:267:PHE:HB2	1.89	0.85
27:Z2:57:LEU:O	27:Z2:57:LEU:HG	1.76	0.85
27:Z2:328:PHE:HE2	27:Z2:349:VAL:HG12	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1332:ARG:HD2	4:D3:899:THR:HG22	0.85	0.85
1:A4:827:ILE:HG23	1:A4:850:PRO:CD	2.07	0.85
7:G2:253:SER:O	15:O4:249:ARG:O	1.95	0.85
9:I2:754:ARG:HH21	13:M3:573:ARG:NH1	1.75	0.85
9:I2:806:VAL:CB	15:O3:247:TRP:CB	2.54	0.85
17:Q1:553:LEU:CD1	17:Q1:629:LEU:HD22	2.06	0.85
17:Q1:847:LEU:HD21	17:Q1:875:PHE:HD2	1.40	0.85
17:Q1:856:LYS:HB2	17:Q1:859:ASP:HB2	1.57	0.85
17:Q2:465:LEU:HD13	17:Q2:466:TYR:N	1.92	0.85
19:R2:586:GLN:HG2	19:R2:635:LEU:H	1.42	0.85
22:U1:288:LEU:HD13	25:X1:792:GLN:CA	2.05	0.85
24:W1:400:LYS:CE	24:W1:716:GLU:CA	2.44	0.85
25:X1:700:ILE:O	26:Y1:1298:TYR:OH	1.94	0.85
25:X2:791:ILE:HA	25:X2:794:ILE:HG12	1.59	0.85
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:HA	1.19	0.85
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:HD23	1.58	0.85
1:A2:1203:TYR:HB3	1:A1:599:ARG:HH22	1.40	0.85
1:A2:1331:GLU:HA	4:D1:903:ILE:CG1	2.07	0.85
1:A3:872:SER:O	4:D1:513:ASP:OD1	1.95	0.85
1:A3:1070:ASP:CG	9:I2:1238:LYS:CB	2.31	0.85
7:G1:253:SER:H	13:M2:595:MET:CE	1.90	0.85
9:I1:1667:GLN:HG2	9:I2:1669:ARG:C	1.97	0.85
9:I2:887:GLN:HE22	13:M3:597:LYS:HZ3	0.90	0.85
9:I2:961:ARG:CD	16:P3:155:GLU:O	2.24	0.85
9:I2:968:PRO:CG	14:N3:300:ALA:O	2.25	0.85
9:I2:1104:LEU:N	13:M3:611:LYS:HZ1	1.52	0.85
17:Q1:606:GLN:O	17:Q1:609:VAL:HG12	1.77	0.85
18:R1:664:LEU:HB3	18:R1:690:PHE:CE1	2.12	0.85
19:R2:558:ILE:HG23	19:R2:581:LEU:HD13	1.58	0.85
22:U1:340:LYS:CG	27:Z1:646:HIS:NE2	2.40	0.85
26:Y1:1429:LYS:CD	26:Y1:1434:PHE:CE1	2.59	0.85
26:Y2:1332:LYS:HB2	27:Z1:97:TYR:HB2	1.59	0.85
27:Z1:137:TYR:CE2	27:Z1:215:VAL:O	2.29	0.85
1:A3:937:ASP:OD1	9:I2:815:ILE:HG22	1.73	0.84
1:A3:1200:ARG:HG3	1:A4:592:ASP:OD2	1.77	0.84
9:I1:913:ALA:O	13:M1:541:LEU:CD1	2.25	0.84
9:I2:1026:TYR:HH	13:M3:608:LYS:HG2	1.39	0.84
17:Q2:140:LEU:HD23	17:Q2:141:THR:N	1.91	0.84
17:Q2:866:GLN:HA	17:Q2:870:VAL:CG2	2.06	0.84
17:Q2:943:THR:HA	17:Q2:946:LYS:HE3	1.58	0.84
19:R2:721:THR:HA	19:R2:724:LEU:HD11	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:212:LYS:HZ1	25:X1:768:GLU:HG2	1.12	0.84
22:U1:289:GLN:NE2	25:X1:794:ILE:HG13	1.90	0.84
25:X2:695:GLN:H	27:Z2:431:TRP:HE3	1.23	0.84
26:Y2:1298:TYR:CZ	26:Y2:1302:ASP:OD2	2.29	0.84
26:Y2:1305:GLN:HE22	27:Z2:595:GLN:HB2	1.41	0.84
26:Y2:1454:LYS:CE	27:Z2:349:VAL:HG22	2.07	0.84
27:Z1:424:PRO:HB2	27:Z1:439:LEU:HD22	1.58	0.84
1:A2:1226:LEU:HD23	1:A1:647:GLU:CB	2.07	0.84
1:A3:1332:ARG:NE	4:D3:899:THR:O	2.10	0.84
9:I2:807:LEU:HD11	15:O3:248:SER:CB	2.05	0.84
17:Q1:596:CYS:SG	17:Q1:679:ASP:HB2	2.17	0.84
17:Q1:866:GLN:HA	17:Q1:870:VAL:CG2	2.07	0.84
17:Q2:596:CYS:SG	17:Q2:679:ASP:HB2	2.17	0.84
22:U1:193:ILE:CG1	27:Z1:664:ARG:CD	2.39	0.84
22:U1:296:LEU:CG	27:Z1:653:GLN:C	2.45	0.84
23:V1:159:ILE:HG12	23:V1:175:LEU:HB3	1.59	0.84
25:X2:685:MET:CE	27:Z2:13:PHE:CE2	2.59	0.84
25:X2:690:GLN:HE22	27:Z2:581:PHE:HE2	1.17	0.84
27:Z1:158:ASN:HB2	27:Z1:161:GLU:OE2	1.77	0.84
27:Z1:401:ASP:OD2	27:Z2:263:TRP:CA	2.24	0.84
27:Z2:137:TYR:CE2	27:Z2:215:VAL:O	2.29	0.84
1:A2:1331:GLU:HB2	4:D1:899:THR:HA	1.59	0.84
6:F1:142:ALA:HB2	9:I1:1391:THR:O	1.75	0.84
9:I1:1049:LEU:CB	15:O1:170:LEU:HB3	2.07	0.84
17:Q1:440:ARG:HD2	17:Q1:514:PHE:CE2	2.12	0.84
17:Q1:553:LEU:HD22	17:Q1:632:LYS:CB	2.07	0.84
17:Q2:700:GLU:CG	17:Q2:758:ILE:HG12	2.07	0.84
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HE3	1.86	0.84
27:Z1:326:LEU:HB3	27:Z1:352:GLU:CG	2.06	0.84
27:Z2:149:ASP:CG	27:Z2:182:ILE:HB	1.97	0.84
27:Z2:387:MET:CE	27:Z2:391:SER:HB2	2.04	0.84
1:A4:827:ILE:HD13	1:A4:849:SER:OG	1.76	0.84
9:I1:1246:ILE:HD11	15:O1:255:GLY:HA2	0.87	0.84
9:I2:892:HIS:HA	13:M3:588:MET:O	1.77	0.84
9:I2:1049:LEU:HD23	14:N3:295:GLU:N	1.92	0.84
9:I2:1105:TRP:CB	15:O3:276:GLY:O	2.23	0.84
17:Q2:814:LEU:HD12	17:Q2:815:VAL:N	1.91	0.84
25:X1:662:ILE:HD11	27:Z1:549:ILE:CG2	2.07	0.84
25:X1:789:GLU:CG	27:Z1:680:TRP:CD2	2.51	0.84
26:Y1:1386:ALA:HB3	26:Y2:1361:GLU:H	1.41	0.84
27:Z1:69:PHE:N	27:Z1:84:ASN:HD21	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:521:ASN:HB2	4:D3:1019:ARG:HH22	1.37	0.84
6:F1:1265:GLN:CA	15:O2:252:VAL:CA	2.41	0.84
9:I2:1028:CYS:CB	13:M3:613:ASP:OD1	2.26	0.84
17:Q1:520:ILE:HD12	17:Q1:574:ASN:HB3	1.59	0.84
17:Q1:706:LEU:HB3	17:Q1:707:PRO:HD3	1.58	0.84
17:Q2:1119:GLN:O	17:Q2:1122:THR:HG22	1.77	0.84
25:X2:689:SER:N	27:Z2:8:SER:OG	2.11	0.84
26:Y2:1236:ASP:HA	26:Y2:1239:PHE:CD2	2.09	0.84
27:Z1:682:GLU:OE1	27:Z2:650:SER:OG	1.94	0.84
27:Z2:69:PHE:N	27:Z2:84:ASN:HD21	1.75	0.84
1:A2:1200:ARG:HB2	1:A1:591:ASP:O	1.77	0.84
1:A2:1228:TYR:CZ	1:A1:639:ASN:O	2.30	0.84
1:A3:1090:SER:C	4:D3:1100:PRO:CG	2.33	0.84
1:A3:1332:ARG:HH22	4:D3:902:SER:HB2	0.67	0.84
6:F1:138:ILE:CD1	9:I1:1391:THR:HB	2.08	0.84
6:F1:138:ILE:HA	9:I1:1388:GLU:O	1.77	0.84
9:I1:1246:ILE:CD1	15:O1:255:GLY:HA3	1.92	0.84
9:I2:1051:LYS:CD	14:N3:289:PHE:HA	2.07	0.84
13:M3:469:GLU:OE1	13:M4:536:GLU:CD	2.14	0.84
17:Q1:60:VAL:CG2	17:Q1:68:ILE:HD11	2.08	0.84
17:Q1:382:ARG:N	17:Q1:512:ILE:CG1	2.35	0.84
17:Q1:383:LEU:HA	17:Q1:508:ASN:HA	1.59	0.84
17:Q1:568:LEU:HD22	17:Q1:588:ILE:HD11	1.56	0.84
17:Q1:931:SER:O	17:Q1:934:VAL:HG12	1.77	0.84
23:V2:159:ILE:HG12	23:V2:175:LEU:HB3	1.59	0.84
25:X1:662:ILE:HG23	27:Z1:556:GLN:HE22	1.42	0.84
25:X1:690:GLN:HE22	27:Z1:581:PHE:HE2	1.17	0.84
25:X1:795:LYS:HZ3	27:Z1:666:GLU:CG	1.91	0.84
25:X2:797:LEU:HD21	26:Y2:1384:LYS:NZ	1.92	0.84
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CE3	2.65	0.84
27:Z1:289:PRO:HD2	27:Z1:350:LEU:HB3	1.60	0.84
27:Z1:329:LYS:HE3	27:Z1:333:MET:SD	2.17	0.84
27:Z1:331:LEU:HD13	27:Z1:345:ASN:HA	1.58	0.84
27:Z2:123:PRO:C	27:Z2:123:PRO:N	2.30	0.84
27:Z2:331:LEU:HD13	27:Z2:345:ASN:HA	1.58	0.84
1:A3:1399:ARG:HD3	4:D3:866:PHE:CD1	2.13	0.84
9:I1:900:ARG:HG2	13:M1:577:LEU:HA	1.53	0.84
9:I1:1311:LEU:HD22	15:O1:266:GLN:CB	2.04	0.84
9:I2:895:ARG:HB3	13:M3:588:MET:H	1.35	0.84
18:R1:586:GLN:HG2	18:R1:635:LEU:H	1.43	0.84
18:R1:711:LEU:HA	18:R1:714:TYR:CD2	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:633:THR:HG23	19:R2:636:VAL:CG2	2.08	0.84
25:X1:648:LEU:CD1	27:Z1:535:PHE:CD1	2.49	0.84
25:X1:777:ASN:OD1	26:Y1:1369:PHE:CE1	2.31	0.84
26:Y2:1295:VAL:HA	27:Z2:588:TRP:CH2	2.13	0.84
27:Z1:263:TRP:HZ3	27:Z1:265:SER:CA	1.86	0.84
27:Z1:303:ALA:HB2	27:Z1:363:LEU:HD22	0.86	0.84
9:I2:917:TYR:CE1	15:O3:186:PHE:O	2.31	0.84
9:I2:1107:SER:CB	13:M3:615:PRO:HB3	2.08	0.84
13:M3:469:GLU:OE1	13:M4:536:GLU:CG	2.25	0.84
17:Q1:532:LYS:HB2	17:Q1:581:PRO:HD3	1.56	0.84
17:Q2:699:MET:O	17:Q2:703:THR:HG23	1.77	0.84
18:R1:633:THR:HG23	18:R1:636:VAL:CG2	2.07	0.84
25:X2:648:LEU:HD11	27:Z2:535:PHE:CZ	2.11	0.84
25:X2:648:LEU:CD1	27:Z2:535:PHE:CD1	2.49	0.84
25:X2:662:ILE:CD1	27:Z2:549:ILE:CG2	2.53	0.84
25:X2:662:ILE:HG23	27:Z2:556:GLN:HE22	1.42	0.84
27:Z2:263:TRP:HZ3	27:Z2:265:SER:CB	1.91	0.84
27:Z2:289:PRO:HD2	27:Z2:350:LEU:HB3	1.59	0.84
27:Z2:383:GLN:CD	27:Z2:417:ILE:HG13	1.97	0.84
1:A2:1229:VAL:HG23	1:A1:643:ALA:HB2	1.59	0.84
6:F1:272:GLU:OE1	9:I1:1209:THR:O	1.90	0.84
9:I2:806:VAL:CB	15:O3:247:TRP:HB2	2.08	0.84
9:I2:809:HIS:HD2	15:O3:243:LEU:C	1.81	0.84
17:Q2:68:ILE:HD13	17:Q2:69:VAL:N	1.92	0.84
18:R1:656:ARG:O	18:R1:660:THR:HG22	1.77	0.84
25:X1:648:LEU:CG	27:Z2:547:VAL:HG11	2.08	0.84
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HG12	2.13	0.84
27:Z2:329:LYS:HE3	27:Z2:333:MET:SD	2.18	0.84
1:A1:827:ILE:HG23	1:A1:850:PRO:CD	2.07	0.84
1:A3:871:ASN:CB	4:D1:515:ASN:HB3	2.06	0.84
1:A4:520:GLU:CG	4:D3:1017:THR:CG2	2.28	0.84
9:I1:909:ARG:C	13:M1:548:LEU:HD22	1.93	0.84
9:I1:1051:LYS:CA	14:N1:293:LYS:CD	2.31	0.84
9:I2:809:HIS:CB	15:O3:244:GLU:H	1.90	0.84
9:I2:885:GLU:O	13:M3:594:LYS:HD3	1.78	0.84
9:I2:1051:LYS:NZ	14:N3:289:PHE:CA	2.33	0.84
9:I2:1168:ALA:HA	15:O3:270:THR:HA	1.60	0.84
17:Q1:68:ILE:HD13	17:Q1:69:VAL:N	1.91	0.84
17:Q2:553:LEU:HD22	17:Q2:632:LYS:CB	2.07	0.84
19:R2:664:LEU:HB3	19:R2:690:PHE:CE1	2.12	0.84
19:R2:682:LYS:HG2	19:R2:683:PHE:H	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:637:LEU:O	25:X2:641:VAL:HG23	1.75	0.84
25:X2:692:LYS:CD	27:Z2:10:LEU:CB	2.56	0.84
25:X2:777:ASN:OD1	26:Y2:1369:PHE:CE1	2.31	0.84
26:Y1:1230:GLU:HG3	26:Y1:1233:ARG:NH2	1.91	0.84
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:N	2.45	0.84
27:Z1:263:TRP:HZ3	27:Z1:265:SER:CB	1.91	0.84
27:Z2:424:PRO:HB2	27:Z2:439:LEU:HD22	1.59	0.84
1:A4:827:ILE:CB	1:A4:849:SER:N	2.40	0.83
7:G2:254:ASN:HB3	15:O4:253:LEU:CA	2.08	0.83
9:I1:912:VAL:C	13:M1:542:ASP:OD1	2.16	0.83
9:I2:806:VAL:HG11	15:O3:247:TRP:CA	2.08	0.83
17:Q1:89:TYR:HD2	17:Q1:90:ILE:HG22	1.43	0.83
18:R1:482:ARG:HB3	18:R1:516:TRP:CZ2	2.12	0.83
25:X1:665:TRP:CZ2	27:Z1:560:LEU:HD21	2.13	0.83
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:HD12	1.60	0.83
26:Y2:1333:ASP:N	27:Z1:109:PHE:CE1	2.45	0.83
26:Y2:1334:LEU:HD22	27:Z1:110:GLN:H	1.42	0.83
27:Z1:544:THR:HG23	27:Z2:558:PHE:H	1.31	0.83
27:Z2:190:ASP:N	27:Z2:311:GLN:CD	2.30	0.83
1:A1:827:ILE:CB	1:A1:849:SER:N	2.40	0.83
1:A3:1084:ARG:CA	4:D3:1095:ARG:CD	2.53	0.83
9:I2:1026:TYR:CZ	13:M3:609:GLY:CA	2.61	0.83
17:Q1:552:THR:HA	17:Q1:556:HIS:CB	2.08	0.83
18:R1:477:ARG:O	18:R1:480:THR:HG22	1.78	0.83
25:X1:662:ILE:CD1	27:Z1:549:ILE:CG2	2.53	0.83
25:X2:637:LEU:C	25:X2:641:VAL:CG2	2.46	0.83
25:X2:662:ILE:HD11	27:Z2:549:ILE:CG2	2.07	0.83
27:Z2:129:LYS:HZ3	27:Z2:185:LEU:HB2	1.37	0.83
27:Z2:133:HIS:ND1	27:Z2:211:PHE:HE1	1.76	0.83
27:Z2:642:ASN:ND2	27:Z2:646:HIS:CE1	2.46	0.83
1:A4:521:ASN:CG	4:D3:1019:ARG:NH2	2.31	0.83
6:F1:154:SER:HB2	9:I1:1344:GLN:HG3	1.58	0.83
9:I1:911:PRO:C	13:M1:541:LEU:CD2	2.47	0.83
9:I1:1051:LYS:CE	14:N1:290:VAL:HA	2.09	0.83
9:I2:888:GLU:OE2	13:M3:597:LYS:CG	2.26	0.83
9:I2:967:SER:O	16:P3:149:ARG:HB2	1.78	0.83
9:I2:1254:VAL:CA	14:N3:408:MET:O	2.26	0.83
17:Q1:211:MET:O	17:Q1:212:LEU:HD22	1.78	0.83
17:Q1:332:LYS:HB3	17:Q1:352:TYR:CE2	2.13	0.83
17:Q1:700:GLU:CG	17:Q1:758:ILE:HG12	2.07	0.83
17:Q2:332:LYS:HB3	17:Q2:352:TYR:CE2	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:904:LYS:O	17:Q2:908:VAL:HG23	1.78	0.83
17:Q2:960:ILE:HD11	17:Q2:1005:LEU:HD12	1.61	0.83
18:R1:482:ARG:HB3	18:R1:516:TRP:CE2	2.13	0.83
19:R2:699:ASP:HB3	19:R2:701:ILE:HG13	1.60	0.83
22:U1:291:ASN:C	25:X1:802:ASP:OD1	2.16	0.83
25:X2:700:ILE:O	26:Y2:1298:TYR:OH	1.94	0.83
27:Z1:328:PHE:HE2	27:Z1:349:VAL:HG12	1.42	0.83
27:Z2:117:ASP:HB2	27:Z2:124:LYS:NZ	1.93	0.83
1:A2:1328:ARG:NH2	4:D1:898:ASP:CB	2.41	0.83
1:A3:1332:ARG:HH11	4:D3:899:THR:CG2	1.89	0.83
9:I2:1165:SER:CB	15:O3:269:ILE:HD12	2.08	0.83
17:Q1:725:PHE:HB2	17:Q1:744:LYS:CE	2.08	0.83
17:Q1:890:GLN:HA	17:Q1:890:GLN:HE21	1.43	0.83
25:X2:695:GLN:NE2	27:Z2:431:TRP:NE1	2.12	0.83
25:X2:695:GLN:HE22	27:Z2:429:ILE:HG23	1.42	0.83
26:Y2:1336:THR:HG22	26:Y2:1340:ARG:HD2	1.58	0.83
26:Y2:1409:LEU:CB	27:Z2:711:LYS:NZ	2.25	0.83
27:Z1:252:GLN:CD	27:Z1:334:SER:OG	2.17	0.83
27:Z1:328:PHE:HE2	27:Z1:349:VAL:CG1	1.88	0.83
27:Z2:393:LEU:HD23	27:Z2:405:LEU:HD21	0.86	0.83
1:A3:1091:VAL:HG12	4:D3:1100:PRO:HG2	1.57	0.83
9:I1:901:TYR:CE1	13:M1:573:ARG:NH1	2.47	0.83
9:I2:1051:LYS:HD2	14:N3:289:PHE:HA	1.58	0.83
17:Q2:931:SER:O	17:Q2:934:VAL:HG12	1.77	0.83
18:R1:721:THR:HA	18:R1:724:LEU:HD11	1.59	0.83
19:R2:656:ARG:O	19:R2:660:THR:HG22	1.77	0.83
25:X2:695:GLN:CA	27:Z2:48:VAL:HG11	2.06	0.83
26:Y1:1305:GLN:OE1	27:Z1:599:MET:HG3	1.77	0.83
1:A3:1327:VAL:HG23	4:D3:872:LEU:HB3	1.61	0.83
7:G1:252:LEU:CD2	15:O2:244:GLU:N	2.40	0.83
17:Q1:60:VAL:HG21	17:Q1:63:GLU:CG	2.08	0.83
17:Q1:699:MET:O	17:Q1:703:THR:HG23	1.77	0.83
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:HD23	2.07	0.83
27:Z1:133:HIS:ND1	27:Z1:211:PHE:HE1	1.76	0.83
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HG12	2.13	0.83
27:Z2:325:ILE:CG2	27:Z2:350:LEU:HD11	1.92	0.83
27:Z2:434:GLN:CG	27:Z2:580:LYS:NZ	2.41	0.83
1:A1:827:ILE:CD1	1:A1:849:SER:CA	2.57	0.83
1:A3:1402:ASP:HB2	4:D3:821:GLU:OE2	1.79	0.83
6:F1:153:LEU:CB	9:I1:1395:LEU:HD21	2.06	0.83
7:G1:253:SER:CA	15:O2:243:LEU:CD2	2.55	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:909:ARG:CD	15:O1:205:ARG:NH2	2.39	0.83
9:I1:980:ILE:HG13	15:O1:172:ALA:HA	1.61	0.83
17:Q1:904:LYS:O	17:Q1:908:VAL:HG23	1.78	0.83
18:R1:409:LYS:HZ1	18:R1:448:ILE:N	1.76	0.83
24:W2:293:LEU:HD13	24:W2:297:LEU:HD12	1.59	0.83
26:Y2:1334:LEU:HD13	27:Z1:108:ALA:N	1.67	0.83
26:Y2:1365:ILE:O	26:Y2:1383:ALA:N	1.98	0.83
27:Z1:84:ASN:O	27:Z1:127:ILE:CG1	2.26	0.83
27:Z1:216:LEU:HG	27:Z1:272:ILE:HD11	1.31	0.83
27:Z2:84:ASN:O	27:Z2:127:ILE:CG1	2.27	0.83
27:Z2:94:PRO:CB	27:Z2:109:PHE:HZ	1.88	0.83
27:Z2:209:TYR:CD2	27:Z2:335:MET:HA	2.12	0.83
27:Z2:252:GLN:CD	27:Z2:334:SER:OG	2.17	0.83
27:Z2:282:GLN:OE1	27:Z2:333:MET:CE	2.27	0.83
1:A2:1228:TYR:OH	1:A1:642:ARG:CG	2.25	0.83
1:A3:1332:ARG:CD	4:D3:899:THR:HG23	1.85	0.83
1:A3:1400:SER:H	4:D3:869:THR:HG21	1.42	0.83
9:I1:1038:ILE:HG12	15:O1:179:LEU:HD13	1.22	0.83
9:I2:895:ARG:NH2	13:M3:589:GLY:N	2.14	0.83
9:I2:976:ARG:CD	14:N3:293:LYS:O	2.26	0.83
17:Q1:194:HIS:HB3	17:Q1:242:LEU:CD2	2.09	0.83
17:Q1:381:TYR:O	17:Q1:512:ILE:CG1	2.25	0.83
18:R1:682:LYS:HG2	18:R1:683:PHE:H	1.41	0.83
19:R2:531:ILE:O	19:R2:535:ARG:HG3	1.79	0.83
22:U1:299:GLU:HB3	27:Z1:652:GLN:HB3	1.57	0.83
25:X2:775:THR:HG23	25:X2:794:ILE:HD13	1.60	0.83
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:HD1	1.08	0.83
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HE2	1.92	0.83
27:Z1:209:TYR:CD2	27:Z1:335:MET:HA	2.12	0.83
27:Z1:393:LEU:HD23	27:Z1:405:LEU:HD21	0.86	0.83
27:Z1:642:ASN:ND2	27:Z1:646:HIS:CE1	2.46	0.83
27:Z2:131:LEU:HD12	27:Z2:187:PHE:CE2	2.14	0.83
1:A2:1224:PRO:HG3	1:A1:595:GLU:HG3	1.58	0.83
1:A3:1332:ARG:NE	4:D3:899:THR:HG22	1.93	0.83
9:I1:979:ALA:H	15:O1:176:ARG:HA	1.43	0.83
9:I2:964:SER:H	16:P3:152:LYS:HB2	1.29	0.83
9:I2:1049:LEU:CB	16:P3:141:ALA:HB3	1.85	0.83
9:I2:1157:LEU:HD23	15:O3:263:GLN:CA	2.08	0.83
9:I2:1254:VAL:HA	14:N3:408:MET:C	1.98	0.83
17:Q2:520:ILE:HD12	17:Q2:574:ASN:HB3	1.59	0.83
17:Q2:552:THR:HA	17:Q2:556:HIS:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:HB2	1.41	0.83
22:U1:289:GLN:CD	25:X1:794:ILE:HG23	1.99	0.83
25:X1:752:ASP:OD1	26:Y1:1345:LEU:CD1	2.27	0.83
25:X2:692:LYS:CG	27:Z2:431:TRP:HZ2	1.44	0.83
27:Z1:26:ILE:HG22	27:Z1:440:MET:HE2	0.83	0.83
27:Z1:124:LYS:HD2	27:Z1:126:SER:H	1.41	0.83
6:F2:132:THR:HG23	9:I2:1334:PRO:HA	1.58	0.83
7:G1:253:SER:N	13:M2:595:MET:HE3	1.92	0.83
9:I1:843:GLU:HB2	13:M1:535:GLU:HG3	1.61	0.83
9:I1:900:ARG:CA	13:M1:580:LYS:HD3	2.09	0.83
9:I1:921:GLU:CB	15:O1:187:ASN:CA	2.49	0.83
9:I2:928:LEU:CA	15:O3:179:LEU:HD22	2.09	0.83
17:Q1:382:ARG:NH1	17:Q1:512:ILE:O	2.12	0.83
17:Q1:847:LEU:HD13	17:Q1:879:ALA:CB	2.09	0.83
17:Q1:1138:GLY:O	17:Q1:1142:LYS:HG3	1.79	0.83
17:Q2:60:VAL:CG2	17:Q2:68:ILE:HD11	2.08	0.83
17:Q2:89:TYR:HD2	17:Q2:90:ILE:HG22	1.43	0.83
17:Q2:934:VAL:HG13	17:Q2:936:LYS:HG3	1.61	0.83
18:R1:453:GLU:HG3	18:R1:454:ASP:H	1.42	0.83
18:R1:699:ASP:HB3	18:R1:701:ILE:HG13	1.60	0.83
22:U1:296:LEU:HG	27:Z1:654:ASP:N	1.94	0.83
24:W1:523:ASP:CG	24:W1:738:ARG:N	2.24	0.83
25:X2:695:GLN:N	27:Z2:431:TRP:HE3	1.77	0.83
25:X2:777:ASN:HB3	25:X2:793:LEU:HB3	1.61	0.83
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:HB2	1.57	0.83
27:Z1:81:CYS:HB2	27:Z1:132:PHE:CZ	2.14	0.83
27:Z1:172:SER:OG	27:Z1:177:ALA:CB	2.26	0.83
27:Z1:252:GLN:HB3	27:Z1:335:MET:SD	2.18	0.83
27:Z1:381:ILE:CG2	27:Z1:417:ILE:CD1	2.28	0.83
27:Z2:252:GLN:HB3	27:Z2:335:MET:SD	2.18	0.83
7:G2:254:ASN:OD1	15:O4:252:VAL:HA	1.78	0.82
9:I1:977:ASN:CB	15:O1:177:HIS:N	2.39	0.82
17:Q1:276:LEU:HD12	17:Q1:296:GLN:HG3	1.59	0.82
17:Q2:60:VAL:HG21	17:Q2:63:GLU:CG	2.08	0.82
17:Q2:610:LEU:HD11	17:Q2:613:ILE:HD12	1.61	0.82
17:Q2:616:LYS:HG2	17:Q2:630:THR:HG21	1.59	0.82
26:Y1:1443:MET:HE1	27:Z1:332:GLU:CD	1.69	0.82
27:Z1:131:LEU:HD12	27:Z1:187:PHE:CE2	2.14	0.82
1:A2:1221:ILE:CG1	1:A1:596:ARG:HG2	2.04	0.82
1:A3:937:ASP:CG	9:I2:815:ILE:CG2	2.41	0.82
9:I2:916:ALA:HB1	15:O3:189:ARG:O	1.02	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:210:LEU:HD13	17:Q1:211:MET:N	1.94	0.82
17:Q1:516:LEU:HB2	17:Q1:517:PRO:HD3	1.61	0.82
18:R1:531:ILE:O	18:R1:535:ARG:HG3	1.79	0.82
25:X2:695:GLN:HB3	27:Z2:48:VAL:CB	2.06	0.82
25:X2:752:ASP:OD1	26:Y2:1345:LEU:CD1	2.27	0.82
27:Z1:57:LEU:HD21	27:Z1:109:PHE:HD2	1.43	0.82
27:Z1:217:LEU:CD2	27:Z1:269:LYS:CG	2.45	0.82
27:Z1:325:ILE:HG21	27:Z1:350:LEU:HD13	1.61	0.82
27:Z2:137:TYR:CG	27:Z2:215:VAL:HG11	2.07	0.82
27:Z2:172:SER:OG	27:Z2:177:ALA:CB	2.26	0.82
27:Z2:234:TYR:HB2	27:Z2:253:LEU:HD11	0.86	0.82
27:Z2:634:ILE:HG22	27:Z2:638:ILE:HD12	1.60	0.82
1:A2:1332:ARG:HG3	4:D1:905:SER:HB2	1.61	0.82
1:A4:712:THR:HG21	4:D3:969:HIS:HB3	1.62	0.82
6:F1:267:GLU:OE1	9:I1:1202:VAL:HG11	1.79	0.82
9:I1:1050:SER:OG	14:N1:293:LYS:C	2.16	0.82
9:I1:1667:GLN:CG	9:I2:1669:ARG:N	2.42	0.82
9:I2:963:LEU:CD1	16:P3:148:ALA:O	2.28	0.82
17:Q1:715:LEU:HD21	17:Q1:751:TYR:HE1	1.44	0.82
17:Q1:740:GLU:HG2	17:Q1:744:LYS:HE2	1.61	0.82
17:Q2:725:PHE:HB2	17:Q2:744:LYS:CE	2.08	0.82
17:Q2:874:PHE:CE1	19:R2:726:ASN:CG	2.52	0.82
17:Q2:1138:GLY:O	17:Q2:1142:LYS:HG3	1.79	0.82
27:Z1:223:LEU:HD12	27:Z1:263:TRP:CE2	2.14	0.82
27:Z1:404:PRO:O	27:Z2:271:ASP:OD2	1.96	0.82
27:Z2:289:PRO:HD2	27:Z2:350:LEU:CB	2.10	0.82
9:I1:1050:SER:OG	14:N1:293:LYS:HG3	1.79	0.82
9:I1:1246:ILE:HG12	15:O1:255:GLY:HA3	0.83	0.82
9:I2:1026:TYR:HA	13:M3:611:LYS:CA	2.03	0.82
17:Q1:616:LYS:HG2	17:Q1:630:THR:HG21	1.59	0.82
25:X2:665:TRP:CZ2	27:Z2:560:LEU:HD21	2.13	0.82
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:H	1.77	0.82
26:Y1:1386:ALA:HB3	26:Y2:1361:GLU:N	1.93	0.82
26:Y1:1399:ILE:HG23	27:Z1:701:LEU:HD23	1.58	0.82
26:Y1:1429:LYS:HD3	26:Y1:1434:PHE:CE1	2.14	0.82
26:Y1:1454:LYS:CE	27:Z1:349:VAL:HG22	2.07	0.82
27:Z1:129:LYS:CD	27:Z1:145:LEU:HD23	2.00	0.82
27:Z1:164:ILE:HD13	27:Z1:277:ARG:HH12	1.41	0.82
27:Z1:197:LEU:O	27:Z1:198:ASN:HA	1.79	0.82
27:Z1:431:TRP:HD1	27:Z1:436:ASN:HD21	1.27	0.82
27:Z2:197:LEU:O	27:Z2:198:ASN:HA	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:307:ILE:HG22	27:Z2:307:ILE:O	1.78	0.82
9:I1:896:PRO:CA	13:M1:580:LYS:HA	2.10	0.82
9:I1:908:ARG:HD3	13:M1:548:LEU:O	1.79	0.82
9:I1:910:LYS:CA	13:M1:545:GLU:HG2	1.98	0.82
9:I1:966:TRP:NE1	15:O1:183:VAL:CG1	2.42	0.82
9:I2:904:GLU:C	13:M3:577:LEU:HD11	1.72	0.82
9:I2:909:ARG:HB3	13:M3:580:LYS:CE	2.10	0.82
9:I2:1034:ASP:CA	15:O3:284:LYS:HE2	2.10	0.82
9:I2:1051:LYS:HD2	14:N3:289:PHE:CA	2.09	0.82
9:I2:1168:ALA:CB	15:O3:269:ILE:HG22	2.09	0.82
9:I2:1253:GLY:CA	14:N3:409:ALA:H	1.86	0.82
9:I2:1370:VAL:HG22	10:J2:259:THR:HG21	1.61	0.82
17:Q1:678:TYR:O	17:Q1:681:ILE:HG22	1.79	0.82
17:Q2:194:HIS:HB3	17:Q2:242:LEU:CD2	2.09	0.82
17:Q2:715:LEU:HD21	17:Q2:751:TYR:HE1	1.44	0.82
17:Q2:922:LEU:HD21	19:R2:688:LEU:HB3	0.84	0.82
22:U1:292:LEU:O	25:X1:802:ASP:OD2	1.97	0.82
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG22	1.92	0.82
26:Y1:1383:ALA:H	26:Y2:1364:ASN:CG	1.78	0.82
27:Z1:35:ILE:HD11	27:Z1:429:ILE:HD12	0.82	0.82
27:Z1:289:PRO:HD2	27:Z1:350:LEU:CB	2.10	0.82
27:Z1:307:ILE:HG22	27:Z1:307:ILE:O	1.78	0.82
27:Z1:690:ASP:O	27:Z1:694:ILE:HG13	1.80	0.82
27:Z2:234:TYR:CB	27:Z2:253:LEU:CD1	2.49	0.82
27:Z2:437:LEU:HG	27:Z2:450:ILE:CG1	2.09	0.82
1:A2:1224:PRO:CB	1:A1:648:TYR:OH	2.26	0.82
9:I1:965:ALA:CB	15:O1:185:ALA:N	2.38	0.82
9:I2:913:ALA:O	15:O3:194:GLU:HA	1.80	0.82
17:Q1:916:SER:HB2	17:Q1:919:GLU:HG2	1.59	0.82
17:Q1:934:VAL:HG13	17:Q1:936:LYS:HG3	1.60	0.82
17:Q2:916:SER:HB2	17:Q2:919:GLU:HG2	1.59	0.82
19:R2:543:VAL:HG11	19:R2:594:ILE:HD13	1.60	0.82
22:U1:209:PRO:CD	27:Z1:658:LEU:O	2.28	0.82
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:HA	1.89	0.82
27:Z1:204:ASP:OD2	27:Z1:284:PRO:HB2	1.80	0.82
1:A4:442:ARG:NH2	4:D3:1022:PRO:HG2	1.94	0.82
4:D1:672:SER:OG	1:A1:1094:ILE:HD12	1.78	0.82
9:I1:924:ILE:HG12	15:O1:187:ASN:ND2	1.94	0.82
9:I1:963:LEU:CD1	16:P1:152:LYS:CD	2.55	0.82
9:I1:978:LYS:HZ3	15:O1:184:ARG:NH2	1.76	0.82
10:J1:248:VAL:HG13	15:O1:273:ASP:HA	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:211:MET:O	17:Q2:212:LEU:HD22	1.78	0.82
17:Q2:276:LEU:HD12	17:Q2:296:GLN:HG3	1.59	0.82
25:X1:665:TRP:CE2	25:X1:669:LEU:HD11	2.14	0.82
25:X2:665:TRP:NE1	26:Y2:1267:GLU:HB3	1.79	0.82
25:X2:777:ASN:CA	25:X2:793:LEU:HB3	2.09	0.82
25:X2:821:ILE:HA	27:Z1:276:TYR:HE2	1.45	0.82
25:X2:823:LYS:CD	27:Z1:272:ILE:HG13	2.10	0.82
26:Y1:1218:PHE:CE1	26:Y1:1222:GLU:CD	2.53	0.82
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:CA	2.58	0.82
27:Z1:26:ILE:H	27:Z1:440:MET:CE	1.92	0.82
27:Z1:190:ASP:N	27:Z1:311:GLN:CD	2.30	0.82
27:Z2:81:CYS:HB2	27:Z2:132:PHE:CZ	2.14	0.82
1:A2:1221:ILE:CD1	1:A1:600:LYS:HE2	1.78	0.82
1:A2:1328:ARG:HH22	4:D1:898:ASP:CG	1.83	0.82
6:F1:135:VAL:CA	9:I1:1392:VAL:HG21	2.09	0.82
9:I2:928:LEU:HA	15:O3:179:LEU:HD22	1.60	0.82
17:Q1:827:THR:HA	17:Q1:830:SER:HB2	1.60	0.82
17:Q2:516:LEU:HB2	17:Q2:517:PRO:HD3	1.61	0.82
18:R1:537:PHE:HB2	18:R1:546:LEU:HD21	1.61	0.82
22:U1:201:LYS:HZ3	26:Y2:1372:LYS:C	1.82	0.82
22:U1:289:GLN:OE1	25:X1:794:ILE:CG1	2.15	0.82
25:X1:752:ASP:CG	26:Y1:1345:LEU:CD1	2.48	0.82
25:X1:788:ASP:N	25:X1:788:ASP:C	2.32	0.82
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CG	2.58	0.82
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:CG	1.91	0.82
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:CA	2.57	0.82
27:Z1:343:VAL:CG1	27:Z1:346:ASN:ND2	2.43	0.82
27:Z1:381:ILE:HG22	27:Z1:417:ILE:HD11	0.84	0.82
27:Z1:437:LEU:HG	27:Z1:450:ILE:CG1	2.09	0.82
27:Z2:252:GLN:HA	27:Z2:335:MET:CE	2.09	0.82
1:A3:1401:VAL:HA	4:D3:873:GLN:HE22	1.43	0.82
9:I1:978:LYS:HE3	15:O1:180:ASP:OD1	1.80	0.82
9:I2:1102:GLN:CG	15:O3:269:ILE:O	2.28	0.82
10:J1:250:THR:N	15:O1:276:GLY:O	2.13	0.82
13:M3:473:ARG:CZ	13:M4:540:TRP:CD2	2.48	0.82
17:Q1:610:LEU:HD11	17:Q1:613:ILE:HD12	1.61	0.82
17:Q1:872:ILE:O	17:Q1:876:GLN:HG2	1.80	0.82
17:Q2:615:GLU:HB2	17:Q2:645:ILE:HG21	1.61	0.82
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CD1	2.55	0.82
25:X2:699:TYR:CA	27:Z2:49:LEU:HD13	2.10	0.82
26:Y1:1431:MET:HA	26:Y1:1434:PHE:HD2	1.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:252:GLN:CD	27:Z2:334:SER:HG	1.83	0.82
1:A2:1201:ARG:CB	1:A1:647:GLU:HB3	2.09	0.82
1:A4:827:ILE:CD1	1:A4:849:SER:CA	2.56	0.82
4:D1:673:LEU:HD11	1:A1:1094:ILE:HG12	0.87	0.82
9:I1:1357:LYS:HZ1	15:O1:263:GLN:HA	1.44	0.82
17:Q2:928:LYS:CE	19:R2:695:ALA:CA	2.56	0.82
17:Q2:1043:ARG:HG3	17:Q2:1120:VAL:HG21	1.62	0.82
18:R1:444:ALA:HA	18:R1:447:PHE:HD2	1.44	0.82
19:R2:537:PHE:HB2	19:R2:546:LEU:HD21	1.60	0.82
22:U1:243:PHE:CG	27:Z1:657:TYR:CA	2.43	0.82
22:U1:243:PHE:CG	27:Z1:660:SER:OG	2.32	0.82
22:U1:339:PHE:HB2	27:Z1:653:GLN:OE1	1.79	0.82
25:X1:648:LEU:HD13	27:Z2:547:VAL:HG12	1.62	0.82
25:X2:778:LYS:HZ3	25:X2:795:LYS:CE	1.89	0.82
27:Z1:282:GLN:OE1	27:Z1:333:MET:CE	2.27	0.82
27:Z2:27:PHE:HE2	27:Z2:36:VAL:CG2	1.56	0.82
27:Z2:35:ILE:CG2	27:Z2:46:TYR:CE2	2.63	0.82
27:Z2:209:TYR:CE2	27:Z2:335:MET:N	2.47	0.82
1:A2:1221:ILE:N	1:A1:596:ARG:HA	1.95	0.81
9:I1:908:ARG:CD	15:O1:209:LEU:HD13	2.10	0.81
9:I1:961:ARG:HH11	15:O1:190:ARG:N	1.78	0.81
9:I2:1308:THR:HB	14:N3:414:ALA:N	1.95	0.81
17:Q1:294:THR:HG23	17:Q1:307:LEU:HB2	1.62	0.81
17:Q1:382:ARG:NE	17:Q1:510:ASN:CA	2.06	0.81
17:Q1:430:ASN:ND2	17:Q1:439:MET:HB2	1.95	0.81
18:R1:524:VAL:O	18:R1:527:VAL:HG22	1.80	0.81
18:R1:634:PHE:CZ	18:R1:635:LEU:HG	2.15	0.81
25:X2:665:TRP:HE3	27:Z2:556:GLN:NE2	1.76	0.81
25:X2:699:TYR:N	27:Z2:49:LEU:HD13	1.95	0.81
26:Y1:1211:LEU:HB3	26:Y1:1214:ILE:HB	1.61	0.81
26:Y1:1409:LEU:CB	27:Z1:711:LYS:NZ	2.25	0.81
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CG	2.58	0.81
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CD	2.10	0.81
1:A2:1221:ILE:HD12	1:A1:600:LYS:HE2	0.81	0.81
6:F1:166:THR:HB	9:I1:1331:LYS:HZ2	1.45	0.81
9:I1:909:ARG:NE	15:O1:205:ARG:NH2	2.27	0.81
9:I2:1099:ARG:NH2	13:M3:610:SER:CA	2.34	0.81
9:I2:1157:LEU:CD2	15:O3:263:GLN:CA	2.58	0.81
17:Q1:88:GLY:HA3	17:Q1:100:ASN:H	1.44	0.81
17:Q1:178:ILE:O	17:Q1:181:ILE:HG12	1.80	0.81
17:Q1:696:LEU:HD13	17:Q1:700:GLU:HG3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:426:ILE:HG21	17:Q2:477:PHE:CE2	2.15	0.81
17:Q2:801:CYS:SG	17:Q2:818:LEU:HD12	2.20	0.81
20:S1:571:ALA:CB	21:T1:86:ASN:ND2	2.34	0.81
20:S2:574:THR:N	21:T2:86:ASN:ND2	2.27	0.81
22:U1:207:LYS:N	27:Z1:665:ILE:N	2.25	0.81
26:Y2:1435:LYS:HZ2	27:Z2:225:LEU:CD2	1.89	0.81
1:A2:1226:LEU:HD23	1:A1:647:GLU:HB2	1.63	0.81
1:A2:1240:HIS:NE2	4:D1:1033:PRO:HG3	1.94	0.81
1:A2:1328:ARG:CD	4:D1:976:ARG:CD	2.58	0.81
1:A3:1223:GLU:O	1:A4:594:LEU:CG	2.28	0.81
1:A3:1402:ASP:HB3	4:D3:821:GLU:OE1	1.81	0.81
7:G1:249:ASP:N	15:O2:247:TRP:CE2	2.43	0.81
9:I1:754:ARG:NH2	13:M1:552:TYR:CE2	2.48	0.81
9:I1:919:ALA:C	15:O1:191:ARG:CZ	2.49	0.81
9:I1:980:ILE:CD1	15:O1:172:ALA:HA	2.09	0.81
9:I1:1048:GLU:OE2	15:O1:170:LEU:CB	2.27	0.81
9:I1:1315:GLN:HG2	15:O1:269:ILE:N	1.90	0.81
9:I1:1667:GLN:HG2	9:I2:1669:ARG:CA	2.08	0.81
9:I2:904:GLU:C	13:M3:577:LEU:CD1	2.47	0.81
9:I2:964:SER:CA	16:P3:149:ARG:CA	2.18	0.81
9:I2:1099:ARG:CA	15:O3:272:SER:CB	2.56	0.81
9:I2:1255:HIS:CG	14:N3:407:ALA:HB3	1.93	0.81
17:Q1:885:VAL:O	17:Q1:888:ILE:HG22	1.78	0.81
17:Q1:960:ILE:HD11	17:Q1:1005:LEU:HD12	1.61	0.81
17:Q1:1043:ARG:HG3	17:Q1:1120:VAL:HG21	1.62	0.81
17:Q2:678:TYR:O	17:Q2:681:ILE:HG22	1.79	0.81
17:Q2:885:VAL:O	17:Q2:888:ILE:HG22	1.79	0.81
18:R1:543:VAL:HG11	18:R1:594:ILE:HD13	1.60	0.81
19:R2:524:VAL:O	19:R2:527:VAL:HG22	1.80	0.81
22:U1:206:ALA:HA	27:Z1:665:ILE:HG13	1.61	0.81
22:U1:207:LYS:HD2	27:Z1:663:THR:O	1.00	0.81
25:X1:644:TRP:CZ3	26:Y1:1225:PHE:CB	2.58	0.81
25:X2:697:LEU:O	25:X2:701:GLU:CG	2.26	0.81
26:Y2:1285:ASN:O	26:Y2:1289:GLN:CG	2.26	0.81
27:Z1:35:ILE:CB	27:Z1:46:TYR:CZ	2.62	0.81
27:Z1:46:TYR:CE1	27:Z1:48:VAL:CG2	2.63	0.81
27:Z1:133:HIS:HE1	27:Z1:211:PHE:HD1	1.29	0.81
27:Z1:209:TYR:CE2	27:Z1:335:MET:N	2.48	0.81
27:Z2:13:PHE:HD1	27:Z2:445:LEU:CD2	1.92	0.81
27:Z2:35:ILE:HD11	27:Z2:429:ILE:HD12	0.82	0.81
27:Z2:198:ASN:N	27:Z2:198:ASN:CB	2.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:263:TRP:HZ3	27:Z2:265:SER:HB3	1.43	0.81
27:Z2:437:LEU:HG	27:Z2:450:ILE:HD11	0.82	0.81
27:Z2:449:ASN:ND2	27:Z2:576:ASP:HB3	1.93	0.81
1:A2:1220:PRO:C	1:A1:599:ARG:HB3	1.99	0.81
7:G1:252:LEU:HD23	15:O2:244:GLU:HA	1.61	0.81
9:I1:897:GLU:HA	13:M1:580:LYS:HG3	1.20	0.81
9:I1:900:ARG:H	13:M1:580:LYS:HD2	1.38	0.81
9:I2:1160:ILE:HG21	15:O3:264:ILE:CA	2.08	0.81
17:Q1:200:ILE:H	17:Q1:200:ILE:HD13	1.46	0.81
17:Q1:615:GLU:HB2	17:Q1:645:ILE:HG21	1.61	0.81
17:Q2:63:GLU:HG2	17:Q2:68:ILE:CG1	2.11	0.81
25:X2:665:TRP:CE2	25:X2:669:LEU:HD11	2.14	0.81
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CE3	2.65	0.81
26:Y1:1368:LEU:O	26:Y1:1372:LYS:HB2	1.80	0.81
27:Z1:197:LEU:O	27:Z1:198:ASN:CA	2.28	0.81
27:Z2:343:VAL:CG1	27:Z2:346:ASN:ND2	2.43	0.81
1:A3:1221:ILE:N	1:A4:595:GLU:HB3	1.94	0.81
9:I2:1255:HIS:HD2	14:N3:407:ALA:CB	0.66	0.81
17:Q1:228:ILE:HG12	17:Q1:249:ASN:CB	2.11	0.81
17:Q2:674:ASN:OD1	17:Q2:746:VAL:HG13	1.81	0.81
17:Q2:1109:ILE:O	17:Q2:1112:GLU:HG3	1.80	0.81
22:U1:296:LEU:CA	27:Z1:657:TYR:N	2.40	0.81
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:HG12	2.02	0.81
27:Z1:234:TYR:HB2	27:Z1:253:LEU:HD11	0.86	0.81
27:Z2:216:LEU:HG	27:Z2:272:ILE:HD11	1.31	0.81
1:A3:1332:ARG:NH1	4:D3:899:THR:CG2	2.44	0.81
6:F1:982:PRO:CB	9:I1:1455:ARG:HB3	2.11	0.81
9:I1:1046:HIS:CE1	15:O1:168:ALA:CA	2.62	0.81
9:I2:891:LEU:C	13:M3:591:ASP:N	2.28	0.81
9:I2:1030:ARG:HD2	13:M3:608:LYS:HB3	1.61	0.81
9:I2:1048:GLU:CG	14:N3:293:LYS:HB2	2.09	0.81
17:Q1:642:PHE:HB3	17:Q1:643:PRO:HD3	1.63	0.81
19:R2:510:LEU:HB3	19:R2:533:LEU:HD13	1.63	0.81
25:X2:752:ASP:CG	26:Y2:1345:LEU:CD1	2.48	0.81
25:X2:777:ASN:CA	25:X2:793:LEU:CB	2.59	0.81
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:NE1	1.96	0.81
26:Y1:1382:VAL:O	26:Y2:1364:ASN:CB	2.22	0.81
26:Y2:1218:PHE:CE1	26:Y2:1222:GLU:CD	2.53	0.81
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:H	1.77	0.81
26:Y2:1321:MET:HB3	27:Z1:51:ASP:N	1.93	0.81
27:Z1:244:ILE:CG1	27:Z1:344:TYR:OH	2.24	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:287:ILE:HD11	27:Z1:348:LEU:HD12	1.60	0.81
27:Z1:634:ILE:HG22	27:Z1:638:ILE:HD12	1.60	0.81
27:Z2:57:LEU:HD21	27:Z2:109:PHE:HD2	1.43	0.81
27:Z2:241:THR:CB	27:Z2:246:LYS:CE	2.20	0.81
9:I1:911:PRO:CD	15:O1:202:LEU:CG	2.58	0.81
9:I1:1370:VAL:HG22	10:J1:259:THR:HG21	1.61	0.81
17:Q2:890:GLN:HA	17:Q2:890:GLN:HE21	1.43	0.81
22:U1:289:GLN:N	25:X1:798:ASN:CB	2.28	0.81
25:X2:698:GLN:HG3	27:Z2:432:ASN:HA	1.63	0.81
27:Z2:189:LYS:C	27:Z2:311:GLN:OE1	2.19	0.81
27:Z2:448:GLN:HB2	27:Z2:573:LYS:NZ	1.94	0.81
6:F1:138:ILE:HA	9:I1:1391:THR:N	1.95	0.81
9:I1:967:SER:HB3	15:O1:178:ASP:H	1.39	0.81
17:Q1:1109:ILE:O	17:Q1:1112:GLU:HG3	1.80	0.81
17:Q2:385:THR:HG23	17:Q2:444:GLU:OE2	1.81	0.81
17:Q2:919:GLU:OE1	19:R2:683:PHE:CD2	2.34	0.81
19:R2:634:PHE:CZ	19:R2:635:LEU:HG	2.15	0.81
22:U1:288:LEU:CD1	25:X1:792:GLN:HA	2.10	0.81
23:V1:156:GLU:OE2	23:V1:214:ARG:NH1	2.13	0.81
23:V2:156:GLU:OE2	23:V2:214:ARG:NH1	2.13	0.81
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:HD13	1.62	0.81
26:Y2:1333:ASP:CA	27:Z1:92:GLU:CB	2.59	0.81
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:CD2	2.10	0.81
27:Z2:223:LEU:HD12	27:Z2:263:TRP:CE2	2.15	0.81
9:I1:980:ILE:HD11	15:O1:172:ALA:CA	2.06	0.81
9:I1:1255:HIS:HE1	15:O1:254:ARG:HD2	1.07	0.81
9:I2:907:VAL:O	13:M3:576:LYS:CD	2.12	0.81
9:I2:1253:GLY:N	14:N3:409:ALA:C	2.34	0.81
17:Q1:210:LEU:HD12	17:Q1:270:LEU:CD1	2.11	0.81
17:Q1:242:LEU:HD23	17:Q1:242:LEU:H	1.46	0.81
17:Q1:887:TRP:HB3	17:Q1:902:THR:CG2	2.11	0.81
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HB	1.96	0.81
27:Z1:35:ILE:CG2	27:Z1:46:TYR:CE2	2.63	0.81
27:Z1:198:ASN:N	27:Z1:198:ASN:CB	2.43	0.81
27:Z1:363:LEU:HG	27:Z1:373:LEU:HD11	1.62	0.81
27:Z2:287:ILE:HD11	27:Z2:348:LEU:HD12	1.61	0.81
27:Z2:325:ILE:HG21	27:Z2:350:LEU:HD13	1.61	0.81
1:A3:1204:TRP:HE3	1:A4:647:GLU:O	1.62	0.81
1:A3:1401:VAL:CA	4:D3:873:GLN:HE22	1.93	0.81
4:D1:969:HIS:CG	1:A1:711:VAL:HG21	2.16	0.81
7:G1:252:LEU:C	15:O2:243:LEU:CD2	2.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1049:LEU:CD1	16:P3:142:LEU:CA	2.59	0.81
17:Q1:859:ASP:HB3	17:Q1:862:PHE:HB3	1.63	0.81
17:Q2:210:LEU:HD13	17:Q2:211:MET:N	1.94	0.81
17:Q2:820:THR:HG23	17:Q2:821:LEU:HD12	1.63	0.81
17:Q2:872:ILE:O	17:Q2:876:GLN:HG2	1.80	0.81
18:R1:661:PRO:CB	18:R1:710:LYS:HE2	2.11	0.81
26:Y1:1399:ILE:HG23	27:Z1:701:LEU:CD2	2.10	0.81
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CB	2.64	0.81
27:Z1:125:SER:HB3	27:Z1:148:ASP:CG	2.01	0.81
27:Z1:252:GLN:HA	27:Z1:335:MET:CE	2.10	0.81
27:Z2:627:GLU:HB3	27:Z2:631:PHE:HE2	1.46	0.81
1:A3:1399:ARG:HD2	4:D3:866:PHE:CD1	2.14	0.80
1:A4:127:HIS:NE2	4:D3:1006:ASP:O	0.66	0.80
7:G1:255:LEU:HD22	15:O2:244:GLU:CB	2.10	0.80
7:G2:253:SER:CA	15:O4:249:ARG:C	2.50	0.80
9:I1:900:ARG:CG	13:M1:577:LEU:CA	2.27	0.80
9:I1:908:ARG:HG3	15:O1:209:LEU:HD12	1.61	0.80
9:I2:977:ASN:N	15:O3:174:LEU:HD23	1.62	0.80
17:Q1:232:THR:HG21	17:Q1:300:THR:HG23	1.62	0.80
17:Q1:441:ARG:HH22	17:Q1:508:ASN:HB3	1.45	0.80
17:Q1:545:TYR:CE1	17:Q1:546:ILE:HG23	2.16	0.80
17:Q2:200:ILE:H	17:Q2:200:ILE:HD13	1.46	0.80
17:Q2:985:ASN:O	17:Q2:988:VAL:HG12	1.82	0.80
25:X1:665:TRP:HE3	27:Z1:556:GLN:NE2	1.76	0.80
26:Y2:1230:GLU:HG3	26:Y2:1233:ARG:NH2	1.92	0.80
27:Z1:41:ASN:HD22	27:Z1:60:SER:N	1.57	0.80
27:Z1:182:ILE:CD1	27:Z1:196:CYS:HB3	2.11	0.80
27:Z1:263:TRP:HZ3	27:Z1:265:SER:HB3	1.43	0.80
27:Z1:319:PHE:CZ	27:Z1:325:ILE:HD12	2.16	0.80
1:A1:777:LEU:CD1	1:A1:822:ILE:HD11	2.12	0.80
1:A2:1201:ARG:CD	1:A1:647:GLU:CB	2.58	0.80
9:I2:806:VAL:HG13	15:O3:247:TRP:CA	2.10	0.80
9:I2:916:ALA:C	16:P3:158:THR:O	2.18	0.80
17:Q1:674:ASN:HB2	17:Q1:743:LEU:HD21	1.64	0.80
17:Q1:979:SER:HB2	17:Q1:1104:ILE:CG2	2.12	0.80
17:Q2:178:ILE:O	17:Q2:181:ILE:HG12	1.80	0.80
17:Q2:246:LYS:HD3	17:Q2:247:LEU:N	1.96	0.80
17:Q2:294:THR:HG23	17:Q2:307:LEU:HB2	1.62	0.80
17:Q2:545:TYR:CE1	17:Q2:546:ILE:HG23	2.16	0.80
24:W1:530:LYS:O	24:W1:746:CYS:O	1.97	0.80
25:X1:648:LEU:CB	27:Z2:547:VAL:CG1	2.03	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:665:TRP:CH2	25:X1:669:LEU:CD1	2.63	0.80
27:Z2:244:ILE:CG1	27:Z2:344:TYR:OH	2.24	0.80
27:Z2:387:MET:HE1	27:Z2:391:SER:CA	2.10	0.80
1:A2:1270:SER:HB3	1:A1:729:SER:C	1.97	0.80
1:A3:1223:GLU:HG3	1:A4:647:GLU:HB2	1.62	0.80
1:A3:1223:GLU:CD	1:A4:648:TYR:CD2	2.54	0.80
1:A4:777:LEU:CD1	1:A4:822:ILE:HD11	2.12	0.80
6:F1:982:PRO:HB2	9:I1:1459:ASN:ND2	1.96	0.80
9:I1:905:ALA:N	13:M1:573:ARG:HD3	1.96	0.80
9:I1:908:ARG:HD2	13:M1:552:TYR:N	1.70	0.80
9:I1:920:PHE:N	15:O1:191:ARG:NH2	2.23	0.80
9:I1:1051:LYS:HZ2	14:N1:290:VAL:CB	1.94	0.80
9:I2:906:GLY:HA2	13:M3:573:ARG:CD	1.87	0.80
9:I2:1099:ARG:HH21	13:M3:610:SER:HA	1.46	0.80
17:Q1:382:ARG:NH2	17:Q1:573:LYS:HZ1	1.78	0.80
17:Q1:426:ILE:HG21	17:Q1:477:PHE:CE2	2.15	0.80
17:Q1:610:LEU:HD12	17:Q1:614:TRP:CZ3	2.17	0.80
17:Q1:801:CYS:SG	17:Q1:818:LEU:HD12	2.20	0.80
17:Q2:430:ASN:ND2	17:Q2:439:MET:HB2	1.95	0.80
25:X2:778:LYS:HE2	25:X2:794:ILE:CG1	2.11	0.80
27:Z1:24:ARG:NE	27:Z1:440:MET:CB	2.41	0.80
27:Z1:403:ASN:CB	27:Z2:262:ASN:ND2	2.45	0.80
27:Z2:7:LEU:CD1	27:Z2:581:PHE:CE1	2.62	0.80
27:Z2:197:LEU:HD22	27:Z2:302:ILE:HG23	1.63	0.80
27:Z2:204:ASP:OD2	27:Z2:284:PRO:HB2	1.80	0.80
27:Z2:690:ASP:O	27:Z2:694:ILE:HG13	1.80	0.80
1:A3:1056:PHE:HZ	4:D3:1104:GLU:N	1.79	0.80
9:I2:899:LEU:HB3	13:M3:581:LEU:CA	2.12	0.80
17:Q1:381:TYR:N	17:Q1:512:ILE:HG13	1.95	0.80
17:Q1:674:ASN:OD1	17:Q1:746:VAL:HG13	1.81	0.80
17:Q2:88:GLY:HA3	17:Q2:100:ASN:H	1.44	0.80
17:Q2:210:LEU:HD12	17:Q2:270:LEU:CD1	2.11	0.80
22:U1:289:GLN:OE1	25:X1:794:ILE:CG2	2.29	0.80
25:X2:665:TRP:CH2	25:X2:669:LEU:CD1	2.63	0.80
25:X2:690:GLN:HA	27:Z2:7:LEU:HD22	1.63	0.80
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:CB	2.40	0.80
26:Y2:1333:ASP:HA	27:Z1:92:GLU:HB2	1.62	0.80
27:Z1:35:ILE:CD1	27:Z1:429:ILE:HD11	2.12	0.80
27:Z1:303:ALA:HB3	27:Z1:363:LEU:CD2	2.10	0.80
27:Z2:197:LEU:O	27:Z2:198:ASN:CA	2.29	0.80
1:A2:1220:PRO:CA	1:A1:596:ARG:HA	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:163:ASP:OD1	9:I1:1331:LYS:HB3	1.79	0.80
6:F1:166:THR:HB	9:I1:1331:LYS:HZ1	1.42	0.80
6:F1:179:GLU:OE2	9:I1:1201:PHE:CD1	2.35	0.80
7:G1:253:SER:OG	13:M2:592:LEU:HD13	1.80	0.80
9:I2:1101:LEU:N	15:O3:272:SER:HB2	1.95	0.80
17:Q2:276:LEU:CD1	17:Q2:296:GLN:HG3	2.11	0.80
17:Q2:740:GLU:HG2	17:Q2:744:LYS:HE2	1.61	0.80
17:Q2:827:THR:HA	17:Q2:830:SER:HB2	1.60	0.80
17:Q2:887:TRP:HB3	17:Q2:902:THR:CG2	2.11	0.80
18:R1:718:VAL:O	18:R1:721:THR:HG22	1.82	0.80
25:X1:790:ASN:CG	27:Z1:680:TRP:HZ2	1.83	0.80
25:X2:665:TRP:CZ3	25:X2:669:LEU:CD1	2.65	0.80
25:X2:775:THR:CA	25:X2:794:ILE:HD12	2.11	0.80
26:Y1:1295:VAL:HA	27:Z1:588:TRP:CH2	2.13	0.80
26:Y1:1386:ALA:O	26:Y2:1357:ASN:CB	2.29	0.80
26:Y2:1396:LEU:HD23	26:Y2:1399:ILE:HD12	1.62	0.80
1:A3:1222:ALA:CA	1:A4:598:VAL:HB	2.12	0.80
9:I1:909:ARG:H	15:O1:205:ARG:CD	1.94	0.80
9:I1:918:SER:CA	15:O1:193:ALA:HB3	2.12	0.80
9:I2:1036:PRO:HD2	16:P3:144:ASP:N	1.92	0.80
9:I2:1162:TYR:HB3	15:O3:266:GLN:NE2	1.97	0.80
17:Q1:285:ILE:HD13	17:Q1:295:TRP:CD1	2.17	0.80
17:Q1:856:LYS:HB2	17:Q1:859:ASP:CB	2.12	0.80
17:Q1:859:ASP:HB3	17:Q1:862:PHE:HB2	1.62	0.80
17:Q2:528:GLU:O	17:Q2:579:ILE:HG21	1.81	0.80
22:U1:340:LYS:HE3	27:Z1:642:ASN:HD21	1.47	0.80
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CD2	1.87	0.80
25:X2:686:ALA:HA	27:Z2:8:SER:CB	2.11	0.80
27:Z1:178:ARG:HH21	27:Z1:280:LYS:CD	1.95	0.80
27:Z1:189:LYS:C	27:Z1:311:GLN:OE1	2.19	0.80
27:Z2:428:TYR:OH	27:Z2:435:SER:OG	1.77	0.80
1:A2:873:PRO:CB	4:D3:535:ALA:HA	2.12	0.80
1:A4:442:ARG:NH2	4:D3:1022:PRO:CG	2.44	0.80
7:G1:248:VAL:C	15:O2:247:TRP:CZ2	2.46	0.80
9:I1:900:ARG:HB3	13:M1:580:LYS:HB2	1.54	0.80
17:Q2:1007:SER:HB2	17:Q2:1044:ARG:CD	2.12	0.80
18:R1:510:LEU:HB3	18:R1:533:LEU:HD13	1.63	0.80
19:R2:718:VAL:O	19:R2:721:THR:HG22	1.82	0.80
24:W1:534:ASP:OD2	24:W1:746:CYS:CA	2.30	0.80
25:X1:790:ASN:OD1	27:Z1:680:TRP:HH2	1.63	0.80
25:X2:692:LYS:NZ	27:Z2:37:PHE:CZ	2.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:697:LEU:CB	27:Z2:432:ASN:ND2	2.43	0.80
26:Y2:1372:LYS:N	26:Y2:1372:LYS:CA	2.45	0.80
27:Z1:234:TYR:CB	27:Z1:253:LEU:CD1	2.49	0.80
6:F1:135:VAL:CB	9:I1:1336:MET:HB3	2.12	0.80
9:I2:902:GLN:HG2	13:M3:576:LYS:O	1.81	0.80
17:Q1:285:ILE:HD13	17:Q1:295:TRP:HD1	1.47	0.80
17:Q2:642:PHE:HB3	17:Q2:643:PRO:HD3	1.63	0.80
17:Q2:674:ASN:HB2	17:Q2:743:LEU:HD21	1.64	0.80
17:Q2:979:SER:HB2	17:Q2:1104:ILE:CG2	2.12	0.80
17:Q2:1144:LYS:HB3	17:Q2:1146:TYR:HD1	1.47	0.80
25:X1:795:LYS:HG3	27:Z1:665:ILE:HG21	1.59	0.80
25:X2:658:TYR:HD2	27:Z2:549:ILE:CD1	1.84	0.80
25:X2:751:LEU:HD12	27:Z2:638:ILE:HD11	1.63	0.80
25:X2:800:HIS:CD2	27:Z2:691:SER:HG	2.00	0.80
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CG	2.29	0.80
27:Z1:124:LYS:HD2	27:Z1:125:SER:C	1.76	0.80
27:Z1:403:ASN:HB3	27:Z2:262:ASN:HD22	1.47	0.80
27:Z1:542:ALA:N	27:Z2:551:ASN:HA	1.97	0.80
27:Z2:189:LYS:O	27:Z2:311:GLN:CD	2.20	0.80
27:Z2:217:LEU:HA	27:Z2:269:LYS:HG2	1.64	0.80
27:Z2:297:TYR:CD2	27:Z2:321:ASP:CG	2.55	0.80
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HG11	2.15	0.80
27:Z2:363:LEU:HG	27:Z2:373:LEU:HD11	1.62	0.80
9:I1:961:ARG:NH1	15:O1:190:ARG:CA	2.41	0.80
9:I2:1305:LEU:HD21	15:O3:260:LEU:HD11	1.56	0.80
17:Q1:104:LYS:HB3	17:Q1:120:ILE:HD11	1.64	0.80
17:Q1:141:THR:HG21	17:Q1:174:TYR:HE1	1.47	0.80
17:Q1:276:LEU:CD1	17:Q1:296:GLN:HG3	2.11	0.80
17:Q1:350:SER:HA	17:Q1:363:LEU:HD23	1.64	0.80
17:Q1:416:ILE:CD1	17:Q1:427:THR:HB	2.12	0.80
17:Q1:929:LEU:HD22	18:R1:691:THR:CB	2.12	0.80
17:Q2:141:THR:HG21	17:Q2:174:TYR:HE1	1.47	0.80
17:Q2:242:LEU:HD23	17:Q2:242:LEU:H	1.45	0.80
17:Q2:610:LEU:HD12	17:Q2:614:TRP:CZ3	2.17	0.80
17:Q2:859:ASP:HB3	17:Q2:862:PHE:HB2	1.63	0.80
17:Q2:859:ASP:HB3	17:Q2:862:PHE:HB3	1.63	0.80
18:R1:538:LEU:HB2	18:R1:546:LEU:HD11	1.64	0.80
22:U1:248:LYS:HD3	25:X1:806:SER:OG	1.82	0.80
25:X1:789:GLU:CD	25:X1:793:LEU:HD11	2.01	0.80
25:X2:648:LEU:CG	27:Z2:535:PHE:CE1	2.64	0.80
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HG11	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:343:VAL:HG12	27:Z1:346:ASN:HD21	1.46	0.80
27:Z2:319:PHE:CZ	27:Z2:325:ILE:HD12	2.16	0.80
6:F1:153:LEU:HG	9:I1:1395:LEU:HD11	1.64	0.80
6:F1:267:GLU:HB2	11:K1:637:SER:HG	1.42	0.80
9:I2:885:GLU:O	13:M3:594:LYS:CD	2.29	0.80
17:Q1:528:GLU:O	17:Q1:579:ILE:HG21	1.81	0.80
17:Q1:811:LEU:HD22	17:Q1:814:LEU:CG	2.12	0.80
17:Q1:929:LEU:CB	18:R1:714:TYR:OH	2.29	0.80
17:Q1:985:ASN:O	17:Q1:988:VAL:HG12	1.82	0.80
17:Q2:228:ILE:HG12	17:Q2:249:ASN:CB	2.11	0.80
17:Q2:532:LYS:CD	17:Q2:581:PRO:HG3	2.11	0.80
17:Q2:856:LYS:HB2	17:Q2:859:ASP:CB	2.12	0.80
22:U1:289:GLN:CA	26:Y1:1372:LYS:O	2.27	0.80
26:Y1:1339:PHE:O	26:Y1:1343:LYS:HG3	1.81	0.80
26:Y1:1389:SER:HB3	26:Y2:1357:ASN:HD21	1.44	0.80
26:Y2:1334:LEU:HD13	27:Z1:108:ALA:H	1.43	0.80
27:Z1:13:PHE:CE1	27:Z1:445:LEU:CD2	2.63	0.80
27:Z2:634:ILE:HG22	27:Z2:638:ILE:CD1	2.12	0.80
1:A3:1330:VAL:CB	4:D3:876:SER:OG	2.20	0.79
9:I2:916:ALA:HB1	15:O3:189:ARG:CA	2.11	0.79
17:Q1:246:LYS:HD3	17:Q1:247:LEU:N	1.96	0.79
17:Q1:310:VAL:HG21	17:Q1:368:PHE:HE2	1.47	0.79
17:Q2:196:LEU:HD12	17:Q2:198:LEU:HD23	1.63	0.79
17:Q2:232:THR:HG21	17:Q2:300:THR:HG23	1.62	0.79
17:Q2:654:VAL:HG12	17:Q2:666:LYS:CE	2.12	0.79
17:Q2:922:LEU:CD1	19:R2:688:LEU:C	2.50	0.79
19:R2:661:PRO:CB	19:R2:710:LYS:HE2	2.11	0.79
20:S1:574:THR:CB	21:T1:88:ARG:HD2	2.12	0.79
23:V2:155:LEU:O	23:V2:159:ILE:HG13	1.82	0.79
25:X1:751:LEU:HD12	27:Z1:638:ILE:HD11	1.63	0.79
25:X1:790:ASN:CG	27:Z1:680:TRP:CH2	2.55	0.79
25:X2:695:GLN:CB	27:Z2:431:TRP:HE3	1.92	0.79
26:Y1:1358:HIS:O	26:Y1:1362:LEU:CG	2.28	0.79
26:Y1:1409:LEU:HA	26:Y1:1412:GLU:HG2	1.61	0.79
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:HD23	2.12	0.79
27:Z1:255:PHE:CZ	27:Z1:259:LEU:HD11	2.17	0.79
27:Z1:314:ILE:HG22	27:Z1:326:LEU:HD11	1.60	0.79
27:Z1:582:GLU:HA	27:Z1:582:GLU:OE1	1.75	0.79
27:Z2:35:ILE:CD1	27:Z2:429:ILE:HD11	2.11	0.79
27:Z2:359:GLU:CG	27:Z2:361:LYS:CE	2.60	0.79
1:A2:1228:TYR:HE2	1:A1:642:ARG:NH2	1.74	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:777:LEU:CD1	1:A3:822:ILE:HD11	2.12	0.79
9:I2:1051:LYS:CA	14:N3:292:ARG:NH1	2.43	0.79
17:Q2:535:SER:O	17:Q2:538:ILE:HG22	1.82	0.79
17:Q2:907:THR:HG22	17:Q2:923:HIS:CB	2.12	0.79
17:Q2:945:ARG:HA	17:Q2:948:GLN:NE2	1.94	0.79
19:R2:538:LEU:HB2	19:R2:546:LEU:HD11	1.64	0.79
22:U1:208:LEU:HD22	27:Z1:660:SER:OG	1.82	0.79
22:U1:296:LEU:HD12	27:Z1:657:TYR:H	1.47	0.79
25:X1:665:TRP:CZ3	25:X1:669:LEU:CD1	2.65	0.79
26:Y2:1339:PHE:O	26:Y2:1343:LYS:HG3	1.82	0.79
27:Z1:326:LEU:HD23	27:Z1:389:TRP:HZ2	1.47	0.79
27:Z1:359:GLU:CG	27:Z1:361:LYS:CE	2.60	0.79
27:Z1:531:ILE:HG23	27:Z2:544:THR:HG21	1.64	0.79
27:Z2:46:TYR:CE1	27:Z2:48:VAL:CG2	2.63	0.79
27:Z2:143:VAL:HG22	27:Z2:211:PHE:CZ	2.17	0.79
1:A3:1223:GLU:OE1	1:A4:647:GLU:CA	2.29	0.79
6:F1:153:LEU:HB3	9:I1:1395:LEU:HD21	1.62	0.79
6:F2:133:GLN:HB2	9:I2:1388:GLU:OE1	1.83	0.79
6:F2:142:ALA:O	9:I2:1395:LEU:HD21	1.77	0.79
9:I1:961:ARG:HD3	15:O1:186:PHE:C	1.94	0.79
9:I2:1048:GLU:OE1	14:N3:293:LYS:HD3	1.83	0.79
18:R1:314:ILE:HG22	18:R1:315:LEU:HG	1.63	0.79
19:R2:664:LEU:HD13	19:R2:690:PHE:CE1	2.17	0.79
25:X2:688:HIS:NE2	27:Z2:439:LEU:N	2.29	0.79
27:Z1:352:GLU:OE1	27:Z1:410:PHE:CE2	2.33	0.79
27:Z2:216:LEU:HD11	27:Z2:272:ILE:HD13	1.63	0.79
27:Z2:217:LEU:CD2	27:Z2:269:LYS:CG	2.45	0.79
27:Z2:233:MET:HE1	27:Z2:334:SER:HB2	1.64	0.79
27:Z2:431:TRP:HD1	27:Z2:436:ASN:HD21	1.27	0.79
27:Z2:627:GLU:O	27:Z2:631:PHE:HD2	1.64	0.79
1:A2:1277:TRP:HB3	1:A1:642:ARG:NH2	1.97	0.79
1:A3:1332:ARG:CZ	4:D3:899:THR:C	2.50	0.79
9:I1:963:LEU:HD11	16:P1:152:LYS:CD	2.12	0.79
9:I2:902:GLN:HB2	13:M3:580:LYS:CB	2.09	0.79
9:I2:1103:LEU:HD13	13:M3:614:ASP:CB	2.12	0.79
17:Q1:104:LYS:CD	17:Q1:120:ILE:HD11	2.13	0.79
23:V1:155:LEU:O	23:V1:159:ILE:HG13	1.82	0.79
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:HH22	1.96	0.79
26:Y2:1333:ASP:HA	27:Z1:92:GLU:CB	2.12	0.79
4:D1:673:LEU:HG	1:A1:1094:ILE:HD13	0.81	0.79
9:I1:1051:LYS:NZ	14:N1:289:PHE:CD2	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1606:GLU:HG3	9:I2:1669:ARG:HH11	1.38	0.79
10:J1:248:VAL:HG22	15:O1:273:ASP:HB2	0.81	0.79
17:Q1:535:SER:O	17:Q1:538:ILE:HG22	1.82	0.79
25:X1:648:LEU:CG	27:Z1:535:PHE:CE1	2.65	0.79
26:Y1:1335:SER:O	26:Y1:1339:PHE:CD1	2.35	0.79
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:NE1	1.96	0.79
26:Y2:1332:LYS:C	27:Z1:94:PRO:N	2.35	0.79
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CZ	2.26	0.79
27:Z1:197:LEU:HD22	27:Z1:302:ILE:HG23	1.64	0.79
27:Z2:125:SER:HB3	27:Z2:148:ASP:CG	2.01	0.79
9:I1:910:LYS:HB2	13:M1:548:LEU:HB3	1.63	0.79
9:I1:911:PRO:HD3	15:O1:202:LEU:HG	1.62	0.79
9:I1:1051:LYS:NZ	14:N1:290:VAL:HG23	1.95	0.79
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HD2	1.95	0.79
9:I2:810:GLU:H	15:O3:244:GLU:CB	1.90	0.79
9:I2:903:GLY:HA2	13:M3:577:LEU:C	1.96	0.79
9:I2:921:GLU:CA	16:P3:157:GLU:OE2	2.29	0.79
9:I2:963:LEU:HB2	16:P3:148:ALA:CA	2.09	0.79
17:Q1:945:ARG:HA	17:Q1:948:GLN:NE2	1.94	0.79
17:Q2:745:ILE:O	17:Q2:748:ILE:HG22	1.83	0.79
19:R2:523:TYR:O	19:R2:527:VAL:HG13	1.83	0.79
22:U1:204:VAL:CA	27:Z1:668:GLU:OE2	2.29	0.79
24:W1:526:ARG:C	24:W1:744:VAL:N	2.31	0.79
25:X1:648:LEU:CG	27:Z1:535:PHE:CZ	2.66	0.79
25:X1:697:LEU:O	25:X1:701:GLU:CG	2.26	0.79
25:X1:797:LEU:HD23	27:Z1:687:LEU:HD22	1.64	0.79
25:X2:778:LYS:O	25:X2:790:ASN:CG	2.07	0.79
25:X2:807:LEU:HD22	27:Z2:698:ASN:HA	1.63	0.79
26:Y1:1316:GLU:HG3	27:Z1:609:LEU:CD2	2.11	0.79
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:HD23	2.11	0.79
26:Y1:1396:LEU:HD23	26:Y1:1399:ILE:HD12	1.62	0.79
26:Y2:1335:SER:O	26:Y2:1339:PHE:CD1	2.35	0.79
27:Z1:189:LYS:O	27:Z1:311:GLN:CD	2.20	0.79
27:Z1:630:TRP:NE1	27:Z1:634:ILE:CD1	2.44	0.79
27:Z2:182:ILE:CD1	27:Z2:196:CYS:HB3	2.11	0.79
27:Z2:255:PHE:CZ	27:Z2:259:LEU:HD11	2.17	0.79
27:Z2:343:VAL:HG12	27:Z2:346:ASN:HD21	1.45	0.79
27:Z2:343:VAL:HG12	27:Z2:346:ASN:ND2	1.97	0.79
1:A3:1271:ILE:HG13	1:A4:730:THR:HG21	1.65	0.79
9:I2:960:SER:HB2	16:P3:154:ALA:N	1.92	0.79
17:Q1:459:GLY:O	17:Q1:465:LEU:HD22	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:181:ILE:HG22	17:Q2:183:ASN:H	1.48	0.79
17:Q2:416:ILE:CD1	17:Q2:427:THR:HB	2.12	0.79
18:R1:515:GLU:O	18:R1:518:ILE:HG22	1.83	0.79
19:R2:617:ILE:HG13	19:R2:670:LYS:HD2	1.65	0.79
22:U1:294:VAL:HG13	27:Z1:657:TYR:O	1.82	0.79
25:X1:800:HIS:CD2	27:Z1:691:SER:HG	2.00	0.79
26:Y1:1387:LYS:HE3	26:Y2:1361:GLU:CD	1.96	0.79
26:Y2:1366:LEU:HA	26:Y2:1384:LYS:N	1.97	0.79
27:Z1:26:ILE:HG21	27:Z1:440:MET:CG	2.13	0.79
27:Z1:297:TYR:CD2	27:Z1:321:ASP:CG	2.55	0.79
27:Z1:703:GLN:O	27:Z1:707:GLU:HG3	1.82	0.79
27:Z2:133:HIS:HE1	27:Z2:211:PHE:HD1	1.29	0.79
27:Z2:582:GLU:N	27:Z2:582:GLU:C	2.36	0.79
1:A2:1201:ARG:NE	1:A1:648:TYR:CG	2.33	0.79
1:A3:871:ASN:HB3	4:D1:515:ASN:HD22	0.70	0.79
9:I2:1103:LEU:H	13:M3:611:LYS:HE2	0.96	0.79
17:Q1:63:GLU:HG2	17:Q1:68:ILE:CG1	2.11	0.79
17:Q1:163:GLY:C	17:Q1:164:LEU:HD22	2.03	0.79
17:Q1:264:ASN:HB3	17:Q1:289:LYS:HB2	1.63	0.79
17:Q2:629:LEU:CD2	17:Q2:632:LYS:HB2	2.13	0.79
17:Q2:1068:GLU:HB2	17:Q2:1070:LEU:CD2	2.12	0.79
26:Y1:1366:LEU:O	26:Y1:1370:THR:CG2	2.30	0.79
26:Y2:1221:VAL:CG2	27:Z2:536:LEU:HD21	2.13	0.79
26:Y2:1277:LYS:CE	27:Z2:571:ILE:H	1.96	0.79
27:Z2:10:LEU:HD23	27:Z2:431:TRP:CH2	2.13	0.79
27:Z2:120:GLU:N	27:Z2:120:GLU:O	2.15	0.79
27:Z2:630:TRP:NE1	27:Z2:634:ILE:CD1	2.44	0.79
1:A4:1027:HIS:CE1	4:D3:478:ALA:HB2	2.18	0.79
7:G2:249:ASP:HB3	15:O4:251:ILE:HG12	1.63	0.79
9:I2:1035:GLN:OE1	16:P3:142:LEU:C	2.22	0.79
17:Q1:104:LYS:CG	17:Q1:120:ILE:HD11	2.13	0.79
17:Q1:745:ILE:O	17:Q1:748:ILE:HG22	1.83	0.79
17:Q1:1144:LYS:HB3	17:Q1:1146:TYR:HD1	1.46	0.79
17:Q2:680:GLY:O	17:Q2:684:GLU:HG3	1.83	0.79
17:Q2:811:LEU:HD22	17:Q2:814:LEU:CG	2.12	0.79
17:Q2:817:THR:O	17:Q2:820:THR:HG22	1.83	0.79
18:R1:435:PHE:CG	18:R1:448:ILE:HD11	2.13	0.79
18:R1:523:TYR:O	18:R1:527:VAL:HG13	1.83	0.79
18:R1:533:LEU:HD11	18:R1:537:PHE:CZ	2.18	0.79
18:R1:664:LEU:HD13	18:R1:690:PHE:CE1	2.17	0.79
19:R2:660:THR:CG2	19:R2:661:PRO:HD3	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:679:LEU:HD22	26:Y2:1281:MET:SD	2.23	0.79
26:Y1:1221:VAL:CG2	27:Z1:536:LEU:HD21	2.13	0.79
26:Y2:1211:LEU:C	26:Y2:1215:GLU:CG	2.51	0.79
26:Y2:1334:LEU:HD22	27:Z1:108:ALA:N	1.94	0.79
26:Y2:1366:LEU:O	26:Y2:1370:THR:CG2	2.30	0.79
27:Z1:35:ILE:CG2	27:Z1:46:TYR:HE2	1.96	0.79
27:Z1:343:VAL:HG12	27:Z1:346:ASN:ND2	1.97	0.79
27:Z1:387:MET:CE	27:Z1:391:SER:HB2	2.04	0.79
27:Z1:634:ILE:HG22	27:Z1:638:ILE:CD1	2.12	0.79
1:A2:1201:ARG:NE	1:A1:647:GLU:CA	2.34	0.79
1:A2:1224:PRO:HB2	1:A1:648:TYR:OH	1.83	0.79
6:F1:134:ASP:CG	9:I1:1388:GLU:OE1	2.22	0.79
6:F1:166:THR:HB	9:I1:1331:LYS:HZ3	1.48	0.79
6:F1:1528:ALA:O	1:A1:1099:GLN:CG	2.31	0.79
9:I1:911:PRO:HG2	15:O1:202:LEU:HD12	0.79	0.79
9:I1:1254:VAL:HG23	15:O1:258:GLU:C	2.03	0.79
9:I2:1099:ARG:O	13:M3:611:LYS:HD3	1.57	0.79
10:J1:248:VAL:HG13	15:O1:273:ASP:CA	2.13	0.79
17:Q1:826:SER:O	17:Q1:829:VAL:HG12	1.83	0.79
17:Q1:899:ALA:O	17:Q1:903:LEU:HD23	1.83	0.79
17:Q2:58:SER:HB2	17:Q2:70:LYS:HE2	1.66	0.79
17:Q2:922:LEU:HD13	19:R2:688:LEU:C	2.04	0.79
25:X1:789:GLU:CA	27:Z1:669:THR:O	2.30	0.79
25:X2:648:LEU:CG	27:Z2:535:PHE:CZ	2.65	0.79
26:Y1:1236:ASP:N	26:Y1:1239:PHE:HE2	1.80	0.79
26:Y1:1387:LYS:CE	26:Y2:1361:GLU:CD	2.50	0.79
26:Y1:1437:VAL:CG2	26:Y2:1429:LYS:HE2	2.13	0.79
27:Z1:12:ILE:HG21	27:Z1:46:TYR:CD2	2.18	0.79
27:Z1:307:ILE:HD11	27:Z1:386:PHE:HE2	1.48	0.79
27:Z2:13:PHE:CE1	27:Z2:445:LEU:CD2	2.63	0.79
27:Z2:35:ILE:CG2	27:Z2:46:TYR:HE2	1.96	0.79
27:Z2:307:ILE:HD11	27:Z2:386:PHE:HE2	1.48	0.79
27:Z2:314:ILE:CG2	27:Z2:326:LEU:HG	2.13	0.79
27:Z2:326:LEU:HD23	27:Z2:389:TRP:HZ2	1.47	0.79
9:I1:976:ARG:N	14:N1:301:LEU:CG	2.46	0.78
10:J1:247:ASP:HB3	15:O1:276:GLY:O	1.83	0.78
17:Q1:423:ALA:HA	17:Q1:449:LEU:CD1	2.13	0.78
17:Q1:532:LYS:CD	17:Q1:581:PRO:HG3	2.11	0.78
17:Q1:790:HIS:ND1	17:Q1:814:LEU:HB2	1.98	0.78
19:R2:515:GLU:O	19:R2:518:ILE:HG22	1.83	0.78
25:X1:797:LEU:HD23	27:Z1:687:LEU:CD2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1383:ALA:N	26:Y2:1383:ALA:CB	2.46	0.78
27:Z1:403:ASN:HB3	27:Z2:262:ASN:ND2	1.98	0.78
27:Z1:582:GLU:N	27:Z1:582:GLU:C	2.37	0.78
27:Z2:641:PHE:C	27:Z2:641:PHE:H	1.87	0.78
7:G1:255:LEU:HD22	15:O2:244:GLU:HB2	1.63	0.78
9:I1:1048:GLU:CG	14:N1:293:LYS:CE	2.60	0.78
9:I1:1357:LYS:NZ	15:O1:263:GLN:HA	1.98	0.78
9:I2:1099:ARG:O	13:M3:611:LYS:CD	2.31	0.78
17:Q2:171:LYS:HD3	17:Q2:195:GLU:HG3	1.66	0.78
18:R1:449:LEU:O	18:R1:449:LEU:HD13	1.84	0.78
18:R1:462:ILE:O	18:R1:465:ILE:HG22	1.83	0.78
25:X1:789:GLU:CD	25:X1:793:LEU:CD1	2.51	0.78
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CD2	1.86	0.78
26:Y1:1277:LYS:HG3	27:Z1:571:ILE:HG12	1.65	0.78
26:Y1:1285:ASN:O	26:Y1:1289:GLN:CG	2.27	0.78
26:Y2:1336:THR:CB	27:Z1:92:GLU:OE1	2.31	0.78
27:Z1:305:ILE:HG21	27:Z1:386:PHE:HZ	1.47	0.78
27:Z1:664:ARG:O	27:Z1:668:GLU:HG3	1.83	0.78
27:Z2:164:ILE:HD13	27:Z2:277:ARG:HH12	1.42	0.78
27:Z2:209:TYR:CE2	27:Z2:334:SER:C	2.57	0.78
27:Z2:352:GLU:OE1	27:Z2:410:PHE:CE2	2.32	0.78
1:A2:777:LEU:CD1	1:A2:822:ILE:HD11	2.12	0.78
1:A2:1274:ASP:CA	1:A1:727:ASN:HD21	1.95	0.78
1:A3:1083:SER:O	4:D3:1096:TYR:CD2	2.12	0.78
9:I1:977:ASN:HA	15:O1:177:HIS:CA	2.09	0.78
17:Q1:680:GLY:O	17:Q1:684:GLU:HG3	1.83	0.78
17:Q2:58:SER:HB3	17:Q2:70:LYS:HE2	1.66	0.78
17:Q2:826:SER:O	17:Q2:829:VAL:HG12	1.83	0.78
17:Q2:899:ALA:O	17:Q2:903:LEU:HD23	1.83	0.78
19:R2:314:ILE:HG22	19:R2:315:LEU:HG	1.64	0.78
19:R2:543:VAL:CG1	19:R2:594:ILE:HD13	2.13	0.78
25:X1:807:LEU:HD21	27:Z1:698:ASN:CB	2.08	0.78
26:Y1:1236:ASP:HA	26:Y1:1239:PHE:CD2	2.12	0.78
26:Y1:1312:ASN:O	27:Z1:609:LEU:CD1	2.32	0.78
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:C	2.31	0.78
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:CB	2.40	0.78
27:Z1:41:ASN:HD22	27:Z1:60:SER:CB	1.97	0.78
27:Z1:358:ARG:CZ	27:Z1:382:GLN:CD	2.51	0.78
27:Z1:642:ASN:HD21	27:Z1:646:HIS:HE1	1.31	0.78
27:Z2:678:ASN:N	27:Z2:678:ASN:CA	2.46	0.78
1:A2:1274:ASP:N	1:A1:642:ARG:HH11	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1326:TRP:O	4:D3:876:SER:CB	2.31	0.78
4:D1:1079:GLU:OE1	1:A1:520:GLU:OE1	2.01	0.78
9:I2:895:ARG:HG2	13:M3:585:LEU:N	1.98	0.78
17:Q1:820:THR:HG23	17:Q1:821:LEU:HD12	1.64	0.78
17:Q1:887:TRP:HB3	17:Q1:902:THR:HG21	1.64	0.78
17:Q2:104:LYS:HB3	17:Q2:120:ILE:HD11	1.64	0.78
17:Q2:264:ASN:HB3	17:Q2:289:LYS:HB2	1.64	0.78
22:U1:212:LYS:HZ1	25:X1:768:GLU:CA	1.96	0.78
24:W1:523:ASP:CB	24:W1:738:ARG:H	1.96	0.78
25:X2:644:TRP:CD1	25:X2:648:LEU:HD11	2.19	0.78
26:Y1:1298:TYR:CE2	27:Z1:595:GLN:NE2	2.51	0.78
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:CB	2.59	0.78
26:Y2:1277:LYS:HG3	27:Z2:571:ILE:HG12	1.65	0.78
27:Z1:7:LEU:HD21	27:Z1:431:TRP:CD1	2.18	0.78
27:Z1:120:GLU:N	27:Z1:120:GLU:O	2.07	0.78
27:Z1:133:HIS:ND1	27:Z1:211:PHE:CE1	2.52	0.78
27:Z1:314:ILE:CG2	27:Z1:326:LEU:HG	2.14	0.78
9:I2:904:GLU:CD	15:O3:235:ASN:HD22	1.87	0.78
17:Q1:181:ILE:HG22	17:Q1:183:ASN:H	1.48	0.78
17:Q1:194:HIS:HB3	17:Q1:242:LEU:HD22	1.66	0.78
17:Q1:629:LEU:CD2	17:Q1:632:LYS:HB2	2.13	0.78
17:Q1:1007:SER:HB2	17:Q1:1044:ARG:CD	2.12	0.78
17:Q2:210:LEU:CD1	17:Q2:270:LEU:HD12	2.13	0.78
17:Q2:285:ILE:HD13	17:Q2:295:TRP:CD1	2.17	0.78
20:S2:573:VAL:CB	21:T2:86:ASN:ND2	2.47	0.78
22:U1:243:PHE:CE2	27:Z1:660:SER:N	2.49	0.78
26:Y2:1312:ASN:O	27:Z2:609:LEU:CD1	2.32	0.78
27:Z2:314:ILE:HG22	27:Z2:326:LEU:HD11	1.60	0.78
27:Z2:328:PHE:HE2	27:Z2:349:VAL:CG1	1.88	0.78
1:A3:1222:ALA:HB1	1:A4:598:VAL:CG2	2.13	0.78
6:F1:139:GLN:HE21	9:I1:1340:LEU:HD11	1.24	0.78
6:F1:159:ALA:O	9:I1:1335:LYS:CD	2.30	0.78
6:F1:159:ALA:CA	9:I1:1335:LYS:HG2	2.12	0.78
9:I1:1048:GLU:CB	14:N1:293:LYS:HZ2	1.79	0.78
9:I1:1606:GLU:HG3	9:I2:1669:ARG:HH12	0.96	0.78
9:I2:806:VAL:HG22	15:O3:247:TRP:CB	2.09	0.78
9:I2:891:LEU:HD22	13:M3:586:ASP:O	1.84	0.78
9:I2:965:ALA:HB3	16:P3:152:LYS:CD	2.11	0.78
9:I2:1103:LEU:CB	13:M3:614:ASP:HB2	2.10	0.78
17:Q1:171:LYS:HD3	17:Q1:195:GLU:HG3	1.66	0.78
17:Q1:423:ALA:HA	17:Q1:449:LEU:HD13	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:141:THR:HG23	17:Q2:163:GLY:HA3	1.66	0.78
22:U1:288:LEU:HD22	25:X1:792:GLN:O	1.83	0.78
25:X1:789:GLU:C	27:Z1:669:THR:O	2.12	0.78
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:HD21	1.62	0.78
26:Y2:1317:TYR:HB2	27:Z1:49:LEU:HD12	1.64	0.78
27:Z1:263:TRP:CD1	27:Z1:270:VAL:CG2	2.67	0.78
27:Z1:543:GLN:O	27:Z2:554:HIS:HE1	1.67	0.78
27:Z1:627:GLU:O	27:Z1:631:PHE:HD2	1.64	0.78
27:Z1:627:GLU:HB3	27:Z1:631:PHE:HE2	1.47	0.78
27:Z2:41:ASN:HD22	27:Z2:60:SER:N	1.58	0.78
27:Z2:120:GLU:H	27:Z2:124:LYS:HE2	1.48	0.78
27:Z2:358:ARG:CZ	27:Z2:382:GLN:CD	2.51	0.78
1:A2:1221:ILE:HG13	1:A1:596:ARG:O	1.83	0.78
1:A3:1332:ARG:NH2	4:D3:903:ILE:H	1.71	0.78
7:G2:249:ASP:HB3	15:O4:254:ARG:HE	1.48	0.78
9:I2:915:ALA:H	15:O3:194:GLU:N	1.81	0.78
17:Q1:141:THR:HG23	17:Q1:163:GLY:HA3	1.66	0.78
17:Q2:163:GLY:C	17:Q2:164:LEU:HD22	2.03	0.78
17:Q2:310:VAL:HG21	17:Q2:368:PHE:HE2	1.47	0.78
17:Q2:688:THR:HG23	17:Q2:692:GLU:HG2	1.65	0.78
18:R1:660:THR:CG2	18:R1:661:PRO:HD3	2.13	0.78
25:X1:789:GLU:OE1	27:Z1:684:ARG:NE	2.15	0.78
25:X2:721:LEU:CB	27:Z2:612:ILE:HD11	2.13	0.78
26:Y1:1211:LEU:N	26:Y1:1211:LEU:HG	1.99	0.78
26:Y1:1431:MET:N	26:Y1:1434:PHE:CD2	2.49	0.78
26:Y2:1298:TYR:CE2	27:Z2:595:GLN:NE2	2.51	0.78
26:Y2:1430:ASP:CA	26:Y2:1434:PHE:CE1	2.66	0.78
27:Z1:35:ILE:HG21	27:Z1:46:TYR:HE2	1.47	0.78
27:Z1:641:PHE:C	27:Z1:641:PHE:H	1.87	0.78
27:Z2:35:ILE:HG21	27:Z2:46:TYR:HE2	1.47	0.78
27:Z2:69:PHE:HD1	27:Z2:84:ASN:CG	1.71	0.78
27:Z2:211:PHE:CD1	27:Z2:211:PHE:O	2.36	0.78
27:Z2:307:ILE:HG21	27:Z2:390:ALA:HB1	1.66	0.78
27:Z2:342:TYR:HE2	27:Z2:344:TYR:HD2	1.27	0.78
1:A1:777:LEU:HD12	1:A1:822:ILE:HD11	1.66	0.78
1:A3:1400:SER:OG	4:D3:869:THR:O	1.99	0.78
6:F1:143:GLY:HA3	9:I1:1394:ASN:OD1	1.83	0.78
6:F2:139:GLN:HB2	9:I2:1392:VAL:HG22	1.65	0.78
6:F2:140:GLU:OE1	9:I2:1388:GLU:O	2.02	0.78
9:I2:1103:LEU:CD2	13:M3:614:ASP:CB	2.61	0.78
9:I2:1163:LEU:H	15:O3:266:GLN:NE2	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1253:GLY:HA2	14:N3:410:MET:CA	2.13	0.78
9:I2:1308:THR:CA	14:N3:413:VAL:HG12	2.13	0.78
17:Q1:172:ALA:HB3	17:Q1:196:LEU:HB3	1.66	0.78
17:Q1:688:THR:HG23	17:Q1:692:GLU:HG2	1.65	0.78
17:Q1:705:LYS:HA	17:Q1:710:ILE:HD12	1.66	0.78
17:Q2:104:LYS:CG	17:Q2:120:ILE:HD11	2.13	0.78
17:Q2:350:SER:HA	17:Q2:363:LEU:HD23	1.64	0.78
17:Q2:705:LYS:HA	17:Q2:710:ILE:HD12	1.66	0.78
18:R1:617:ILE:HG13	18:R1:670:LYS:HD2	1.65	0.78
20:S2:548:TYR:OH	21:T2:18:ASP:OD2	2.01	0.78
25:X1:640:LEU:HB3	26:Y1:1218:PHE:CZ	2.19	0.78
25:X1:704:GLN:OE1	27:Z1:598:LEU:CD1	2.32	0.78
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:ND2	1.95	0.78
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CE1	2.62	0.78
26:Y2:1277:LYS:CE	27:Z2:571:ILE:N	2.46	0.78
26:Y2:1358:HIS:O	26:Y2:1362:LEU:CG	2.28	0.78
27:Z1:165:VAL:HG12	27:Z1:168:LYS:HG2	1.64	0.78
27:Z2:12:ILE:HG21	27:Z2:46:TYR:CD2	2.18	0.78
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CD2	2.36	0.78
27:Z2:178:ARG:HH21	27:Z2:280:LYS:CD	1.95	0.78
27:Z2:263:TRP:CD1	27:Z2:270:VAL:CG2	2.67	0.78
6:F1:159:ALA:N	9:I1:1338:PHE:N	1.85	0.78
6:F1:163:ASP:OD2	9:I1:1331:LYS:HG2	1.81	0.78
9:I1:754:ARG:H	13:M1:556:MET:HE2	1.46	0.78
9:I1:923:GLY:N	15:O1:191:ARG:HG3	1.99	0.78
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HB2	1.85	0.78
9:I2:978:LYS:NZ	15:O3:182:THR:H	1.80	0.78
9:I2:1254:VAL:HA	14:N3:408:MET:HA	1.65	0.78
17:Q1:196:LEU:HD12	17:Q1:198:LEU:HD23	1.63	0.78
17:Q1:210:LEU:CD1	17:Q1:270:LEU:HD12	2.13	0.78
17:Q1:817:THR:O	17:Q1:820:THR:HG22	1.83	0.78
17:Q2:104:LYS:CD	17:Q2:120:ILE:HD11	2.13	0.78
18:R1:543:VAL:CG1	18:R1:594:ILE:HD13	2.13	0.78
22:U1:297:LEU:O	27:Z1:654:ASP:N	2.16	0.78
25:X1:690:GLN:HG2	27:Z1:581:PHE:CZ	2.19	0.78
25:X2:637:LEU:O	25:X2:641:VAL:HG21	1.81	0.78
25:X2:686:ALA:C	27:Z2:8:SER:CB	2.52	0.78
25:X2:704:GLN:OE1	27:Z2:598:LEU:CD1	2.32	0.78
27:Z1:24:ARG:HH22	27:Z1:445:LEU:HD13	1.49	0.78
27:Z2:422:ARG:NH2	27:Z2:442:ASN:ND2	2.32	0.78
27:Z2:703:GLN:O	27:Z2:707:GLU:HG3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1221:ILE:H	1:A1:596:ARG:HA	1.48	0.78
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CE2	2.18	0.78
9:I1:1046:HIS:ND1	15:O1:171:ASP:OD2	2.17	0.78
9:I1:1050:SER:HG	14:N1:293:LYS:C	1.87	0.78
9:I2:915:ALA:N	15:O3:194:GLU:N	2.31	0.78
17:Q1:443:TRP:CE3	17:Q1:504:PHE:CE1	2.72	0.78
17:Q2:172:ALA:HB3	17:Q2:196:LEU:HB3	1.66	0.78
17:Q2:423:ALA:HA	17:Q2:449:LEU:CD1	2.13	0.78
17:Q2:696:LEU:HD13	17:Q2:700:GLU:HG3	1.62	0.78
24:W1:113:VAL:HG23	24:W1:114:GLU:H	1.49	0.78
25:X1:679:LEU:HD22	26:Y1:1281:MET:SD	2.23	0.78
25:X1:751:LEU:HD13	27:Z1:638:ILE:HD11	1.49	0.78
26:Y2:1435:LYS:HE3	27:Z2:225:LEU:HD21	1.62	0.78
27:Z1:359:GLU:CG	27:Z1:361:LYS:HE3	2.13	0.78
27:Z2:10:LEU:HD23	27:Z2:431:TRP:HH2	1.46	0.78
27:Z2:27:PHE:CE2	27:Z2:80:LEU:HD21	2.19	0.78
27:Z2:182:ILE:CD1	27:Z2:198:ASN:OD1	2.32	0.78
27:Z2:208:PHE:HE2	27:Z2:279:ALA:O	1.67	0.78
27:Z2:359:GLU:CG	27:Z2:361:LYS:HE3	2.13	0.78
1:A1:827:ILE:CG1	1:A1:849:SER:CA	2.63	0.78
1:A2:1201:ARG:HG3	1:A1:647:GLU:CG	2.14	0.77
1:A2:1220:PRO:O	1:A1:599:ARG:NE	2.16	0.77
1:A3:1085:ALA:N	4:D3:1096:TYR:OH	2.14	0.77
1:A4:827:ILE:CG1	1:A4:849:SER:CA	2.62	0.77
7:G2:254:ASN:HB3	15:O4:253:LEU:HA	1.65	0.77
9:I2:809:HIS:CD2	15:O3:243:LEU:H	2.01	0.77
9:I2:895:ARG:HH21	13:M3:589:GLY:H	0.81	0.77
17:Q1:196:LEU:CD1	17:Q1:198:LEU:HD23	2.14	0.77
17:Q1:654:VAL:HG12	17:Q1:666:LYS:CE	2.12	0.77
17:Q2:595:ASN:O	17:Q2:598:ILE:HG22	1.84	0.77
18:R1:660:THR:HG23	18:R1:661:PRO:HD3	1.67	0.77
25:X2:640:LEU:HB3	26:Y2:1218:PHE:CZ	2.19	0.77
26:Y1:1312:ASN:O	27:Z1:609:LEU:HD11	1.84	0.77
26:Y1:1410:GLN:N	27:Z1:711:LYS:HE3	2.00	0.77
27:Z1:13:PHE:HD1	27:Z1:445:LEU:CD2	1.92	0.77
27:Z1:143:VAL:HG22	27:Z1:211:PHE:CZ	2.17	0.77
27:Z1:190:ASP:OD1	27:Z1:311:GLN:HB3	1.84	0.77
27:Z1:209:TYR:CE2	27:Z1:334:SER:C	2.57	0.77
27:Z1:233:MET:HE1	27:Z1:334:SER:HB2	1.64	0.77
27:Z1:437:LEU:HG	27:Z1:450:ILE:HD11	0.82	0.77
27:Z2:179:VAL:CG1	27:Z2:198:ASN:ND2	2.46	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:664:ARG:O	27:Z2:668:GLU:HG3	1.83	0.77
1:A3:1273:ALA:H	1:A4:730:THR:HG21	1.48	0.77
6:F1:138:ILE:CB	9:I1:1388:GLU:O	2.31	0.77
9:I1:1359:ASP:CG	15:O1:264:ILE:HA	2.03	0.77
9:I2:982:GLN:HE21	15:O3:179:LEU:HD12	1.46	0.77
9:I2:1168:ALA:HB3	15:O3:269:ILE:HG22	1.65	0.77
17:Q1:553:LEU:HD13	17:Q1:629:LEU:CD2	2.14	0.77
17:Q1:749:LEU:HG	17:Q1:807:PHE:CG	2.19	0.77
17:Q1:907:THR:HG22	17:Q1:923:HIS:CB	2.12	0.77
17:Q1:960:ILE:HG23	17:Q1:991:LEU:CD1	2.13	0.77
17:Q2:960:ILE:HG23	17:Q2:991:LEU:CD1	2.13	0.77
18:R1:442:LEU:CD2	18:R1:470:LEU:HD21	2.13	0.77
20:S2:574:THR:N	21:T2:86:ASN:HD22	1.81	0.77
26:Y1:1277:LYS:CE	27:Z1:571:ILE:N	2.46	0.77
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:CD1	2.09	0.77
27:Z1:179:VAL:CG1	27:Z1:198:ASN:ND2	2.47	0.77
27:Z1:307:ILE:HG21	27:Z1:390:ALA:HB1	1.66	0.77
27:Z2:294:LEU:HD11	27:Z2:325:ILE:HD11	1.66	0.77
1:A2:785:ILE:HD11	1:A2:825:ARG:HG2	1.66	0.77
9:I1:910:LYS:O	13:M1:545:GLU:CD	2.23	0.77
9:I1:1315:GLN:O	15:O1:269:ILE:HD12	1.83	0.77
9:I2:899:LEU:HB3	13:M3:581:LEU:C	2.04	0.77
9:I2:1165:SER:HA	15:O3:269:ILE:HB	1.65	0.77
17:Q2:615:GLU:CB	17:Q2:645:ILE:HG21	2.14	0.77
17:Q2:887:TRP:HB3	17:Q2:902:THR:HG21	1.64	0.77
25:X1:789:GLU:CG	25:X1:793:LEU:HD13	2.14	0.77
26:Y2:1211:LEU:CB	26:Y2:1214:ILE:HD12	2.15	0.77
26:Y2:1277:LYS:CD	27:Z2:571:ILE:HG13	2.14	0.77
26:Y2:1316:GLU:CD	27:Z2:609:LEU:CD2	2.52	0.77
27:Z1:10:LEU:HD23	27:Z1:431:TRP:CH2	2.14	0.77
27:Z1:182:ILE:CD1	27:Z1:198:ASN:OD1	2.32	0.77
27:Z1:381:ILE:HD11	27:Z1:424:PRO:CG	2.14	0.77
27:Z2:434:GLN:CD	27:Z2:580:LYS:HE3	2.04	0.77
1:A2:873:PRO:HB3	4:D3:535:ALA:CB	2.14	0.77
1:A2:1201:ARG:HB3	1:A1:647:GLU:HB3	1.66	0.77
1:A2:1228:TYR:HH	1:A1:642:ARG:HB3	0.94	0.77
6:F1:139:GLN:HE21	9:I1:1340:LEU:HD13	1.45	0.77
7:G1:252:LEU:CD2	15:O2:244:GLU:HG2	1.93	0.77
7:G2:254:ASN:ND2	15:O4:256:TYR:N	2.32	0.77
9:I1:980:ILE:CD1	15:O1:175:SER:N	2.27	0.77
9:I2:916:ALA:HB2	15:O3:193:ALA:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:921:GLU:N	16:P3:157:GLU:CD	2.37	0.77
9:I2:1161:ASP:O	15:O3:266:GLN:O	2.01	0.77
17:Q1:843:PHE:HE1	17:Q1:875:PHE:HZ	1.32	0.77
17:Q2:553:LEU:HD13	17:Q2:629:LEU:CD2	2.14	0.77
19:R2:660:THR:HG23	19:R2:661:PRO:HD3	1.67	0.77
25:X2:690:GLN:CA	27:Z2:7:LEU:HD23	2.06	0.77
25:X2:695:GLN:HG3	27:Z2:431:TRP:CA	2.15	0.77
25:X2:775:THR:OG1	25:X2:794:ILE:CD1	2.32	0.77
27:Z1:137:TYR:CB	27:Z1:269:LYS:HD3	2.12	0.77
27:Z1:211:PHE:CD1	27:Z1:211:PHE:O	2.36	0.77
27:Z1:531:ILE:CG2	27:Z2:544:THR:HG21	2.15	0.77
27:Z2:165:VAL:HG12	27:Z2:168:LYS:HG2	1.64	0.77
27:Z2:293:GLU:O	27:Z2:296:ASP:OD1	2.03	0.77
27:Z2:383:GLN:HE21	27:Z2:417:ILE:HG13	1.48	0.77
6:F1:159:ALA:CA	9:I1:1335:LYS:CG	2.63	0.77
9:I1:913:ALA:N	13:M1:541:LEU:CD2	2.46	0.77
9:I1:919:ALA:CB	15:O1:190:ARG:CZ	2.58	0.77
9:I2:899:LEU:HA	13:M3:580:LYS:C	2.05	0.77
17:Q2:196:LEU:CD1	17:Q2:198:LEU:HD23	2.14	0.77
17:Q2:725:PHE:CD1	17:Q2:740:GLU:HG2	2.19	0.77
18:R1:667:LEU:HD13	18:R1:667:LEU:O	1.85	0.77
18:R1:706:GLN:O	18:R1:710:LYS:HB2	1.85	0.77
19:R2:533:LEU:HD11	19:R2:537:PHE:CZ	2.18	0.77
25:X2:745:TYR:HB3	27:Z1:104:SER:OG	1.83	0.77
26:Y2:1125:ASP:C	26:Y2:1125:ASP:CB	2.52	0.77
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:HZ3	0.97	0.77
27:Z1:217:LEU:HA	27:Z1:269:LYS:HG2	1.64	0.77
27:Z1:294:LEU:HD11	27:Z1:325:ILE:HD11	1.65	0.77
27:Z2:34:ARG:CD	27:Z2:95:TRP:HH2	1.98	0.77
27:Z2:303:ALA:HB3	27:Z2:363:LEU:CD2	2.10	0.77
27:Z2:381:ILE:HD11	27:Z2:424:PRO:CG	2.14	0.77
1:A2:1224:PRO:HA	1:A1:594:LEU:O	1.27	0.77
1:A2:1236:GLN:OE1	1:A1:587:VAL:HG11	1.85	0.77
6:F1:133:GLN:N	9:I1:1333:THR:CG2	2.44	0.77
6:F1:1806:ARG:O	14:N2:412:ASN:ND2	2.18	0.77
6:F2:158:PRO:HB2	9:I2:1337:ALA:CB	2.14	0.77
9:I1:912:VAL:N	13:M1:541:LEU:HD23	2.00	0.77
9:I1:922:ASP:HB3	15:O1:191:ARG:CG	2.15	0.77
9:I2:805:ILE:O	15:O3:244:GLU:HG2	1.84	0.77
17:Q2:459:GLY:O	17:Q2:465:LEU:HD22	1.83	0.77
17:Q2:540:HIS:CD2	17:Q2:544:LYS:HD2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1071:PRO:HB3	17:Q2:1155:VAL:HG23	1.67	0.77
19:R2:667:LEU:HD13	19:R2:667:LEU:O	1.85	0.77
20:S2:570:MET:CB	21:T2:85:GLU:OE1	2.32	0.77
22:U1:289:GLN:CD	25:X1:794:ILE:CG2	2.52	0.77
25:X1:791:ILE:HG21	27:Z1:666:GLU:O	1.84	0.77
25:X2:637:LEU:C	25:X2:641:VAL:HG23	2.04	0.77
25:X2:788:ASP:N	25:X2:788:ASP:C	0.72	0.77
26:Y1:1221:VAL:CG1	27:Z1:536:LEU:HD21	2.15	0.77
27:Z1:422:ARG:NH2	27:Z1:442:ASN:ND2	2.32	0.77
27:Z2:41:ASN:HD22	27:Z2:60:SER:CB	1.97	0.77
27:Z2:182:ILE:HD11	27:Z2:196:CYS:HB3	1.67	0.77
27:Z2:305:ILE:HG21	27:Z2:386:PHE:HZ	1.47	0.77
1:A1:785:ILE:HD11	1:A1:825:ARG:HG2	1.67	0.77
1:A2:1230:TYR:OH	1:A1:590:SER:CA	2.24	0.77
6:F1:161:ALA:HB3	9:I1:1336:MET:N	1.98	0.77
6:F1:267:GLU:O	9:I1:1202:VAL:HG21	1.84	0.77
9:I1:961:ARG:HH11	15:O1:190:ARG:H	1.28	0.77
9:I2:961:ARG:H	16:P3:155:GLU:CB	1.98	0.77
9:I2:1246:ILE:CD1	14:N3:408:MET:CA	2.29	0.77
17:Q1:332:LYS:HE2	17:Q1:352:TYR:HE2	1.50	0.77
17:Q1:615:GLU:CB	17:Q1:645:ILE:HG21	2.14	0.77
17:Q1:745:ILE:HD13	17:Q1:800:GLN:OE1	1.85	0.77
17:Q1:922:LEU:CD2	18:R1:688:LEU:HD22	2.13	0.77
17:Q2:331:LEU:HD11	17:Q2:351:ILE:HG21	1.67	0.77
17:Q2:749:LEU:HG	17:Q2:807:PHE:CG	2.19	0.77
24:W1:403:ASP:HB2	24:W1:723:PHE:CB	2.14	0.77
25:X1:776:PHE:HE2	26:Y1:1369:PHE:CD1	2.02	0.77
26:Y1:1368:LEU:O	26:Y1:1372:LYS:CB	2.30	0.77
26:Y2:1299:VAL:O	26:Y2:1303:ILE:HG12	1.84	0.77
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CD2	2.36	0.77
27:Z1:294:LEU:HD23	27:Z1:353:ARG:NH2	1.99	0.77
27:Z2:209:TYR:CB	27:Z2:210:PRO:HD2	1.85	0.77
9:I2:914:ASN:OD1	15:O3:194:GLU:OE1	2.03	0.77
17:Q2:100:ASN:CG	17:Q2:105:VAL:HG22	2.06	0.77
17:Q2:423:ALA:HA	17:Q2:449:LEU:HD13	1.66	0.77
18:R1:409:LYS:HZ3	18:R1:448:ILE:N	1.83	0.77
18:R1:613:ILE:HG23	18:R1:614:PRO:HD3	1.67	0.77
18:R1:628:PHE:CZ	18:R1:629:GLU:HG2	2.20	0.77
24:W1:525:LEU:C	24:W1:743:ASN:CB	2.54	0.77
25:X2:690:GLN:HG2	27:Z2:581:PHE:CZ	2.19	0.77
25:X2:776:PHE:HE2	26:Y2:1369:PHE:CD1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1277:LYS:CE	27:Z1:571:ILE:H	1.97	0.77
27:Z1:208:PHE:HE2	27:Z1:279:ALA:O	1.68	0.77
27:Z2:329:LYS:CE	27:Z2:333:MET:HG3	2.14	0.77
1:A3:1200:ARG:CG	1:A4:591:ASP:CB	2.31	0.77
1:A3:1332:ARG:NH2	4:D3:902:SER:C	2.38	0.77
6:F1:138:ILE:CB	9:I1:1392:VAL:CG2	1.82	0.77
9:I1:1667:GLN:HG2	9:I2:1669:ARG:CB	1.99	0.77
17:Q1:610:LEU:CD1	17:Q1:613:ILE:HD12	2.15	0.77
17:Q2:194:HIS:HB3	17:Q2:242:LEU:HD22	1.66	0.77
17:Q2:610:LEU:CD1	17:Q2:613:ILE:HD12	2.15	0.77
17:Q2:745:ILE:HD11	17:Q2:800:GLN:HG3	1.66	0.77
17:Q2:891:ILE:CD1	19:R2:715:LEU:HD22	1.83	0.77
18:R1:677:LEU:HD12	18:R1:684:ILE:HG22	1.67	0.77
25:X1:814:LEU:HB2	26:Y1:1402:LEU:HD13	1.67	0.77
25:X2:691:ASN:HB2	27:Z2:431:TRP:CD1	2.14	0.77
25:X2:695:GLN:CA	27:Z2:48:VAL:CG1	2.62	0.77
25:X2:710:PHE:CZ	26:Y2:1313:ALA:CB	2.68	0.77
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CH2	2.20	0.77
26:Y2:1236:ASP:N	26:Y2:1239:PHE:HE2	1.83	0.77
27:Z1:27:PHE:CE2	27:Z1:80:LEU:HD21	2.19	0.77
27:Z1:540:VAL:C	27:Z2:555:GLU:CG	2.40	0.77
27:Z2:289:PRO:CD	27:Z2:289:PRO:N	2.46	0.77
1:A2:1196:GLU:OE2	1:A1:590:SER:HB2	1.85	0.77
1:A3:1204:TRP:HD1	1:A4:595:GLU:CG	1.98	0.77
6:F1:982:PRO:HB3	9:I1:1455:ARG:HB3	1.66	0.77
6:F2:139:GLN:OE1	9:I2:1340:LEU:CD2	2.21	0.77
7:G1:253:SER:HG	13:M2:592:LEU:HD12	1.49	0.77
9:I1:912:VAL:O	13:M1:542:ASP:OD1	2.02	0.77
17:Q2:332:LYS:HE2	17:Q2:352:TYR:HE2	1.50	0.77
18:R1:555:ILE:HD13	18:R1:555:ILE:O	1.85	0.77
18:R1:614:PRO:HA	18:R1:617:ILE:CG2	2.16	0.77
25:X2:823:LYS:CB	27:Z1:259:LEU:HD21	2.02	0.77
26:Y2:1221:VAL:CG1	27:Z2:536:LEU:HD21	2.15	0.77
27:Z1:34:ARG:CD	27:Z1:95:TRP:HH2	1.98	0.77
27:Z1:182:ILE:HD11	27:Z1:196:CYS:HB3	1.67	0.77
27:Z1:217:LEU:HD21	27:Z1:269:LYS:CD	1.86	0.77
27:Z1:297:TYR:CE1	27:Z1:321:ASP:OD1	2.38	0.77
27:Z1:314:ILE:CG2	27:Z1:326:LEU:CG	2.61	0.77
27:Z2:137:TYR:CB	27:Z2:269:LYS:HD3	2.12	0.77
27:Z2:302:ILE:O	27:Z2:302:ILE:HG13	1.85	0.77
1:A3:1091:VAL:N	4:D3:1100:PRO:CB	2.27	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:978:LYS:HG3	15:O3:177:HIS:CD2	2.20	0.76
17:Q1:874:PHE:CE1	17:Q1:889:GLN:HG2	2.20	0.76
17:Q2:700:GLU:OE1	17:Q2:758:ILE:HA	1.85	0.76
17:Q2:790:HIS:ND1	17:Q2:814:LEU:HB2	1.98	0.76
25:X1:710:PHE:CZ	26:Y1:1313:ALA:CB	2.68	0.76
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD13	1.52	0.76
25:X2:665:TRP:CE3	27:Z2:556:GLN:NE2	2.51	0.76
25:X2:695:GLN:CG	27:Z2:48:VAL:HG11	2.10	0.76
25:X2:772:VAL:CG1	27:Z2:662:LEU:HD12	2.16	0.76
27:Z1:41:ASN:HD21	27:Z1:60:SER:N	1.64	0.76
27:Z2:133:HIS:CE1	27:Z2:211:PHE:CD1	2.73	0.76
27:Z2:148:ASP:CB	27:Z2:150:THR:HG23	2.15	0.76
27:Z2:190:ASP:OD1	27:Z2:311:GLN:HB3	1.85	0.76
1:A2:1221:ILE:HB	1:A1:600:LYS:HG2	1.67	0.76
1:A4:624:ASP:O	4:D3:980:ARG:CD	2.32	0.76
6:F2:142:ALA:HB3	9:I2:1395:LEU:CD1	2.15	0.76
9:I1:908:ARG:HB2	15:O1:209:LEU:CD1	2.15	0.76
9:I1:912:VAL:HG23	15:O1:198:ARG:NH2	1.99	0.76
9:I2:914:ASN:ND2	15:O3:191:ARG:HA	2.00	0.76
9:I2:1049:LEU:HB3	14:N3:292:ARG:O	1.82	0.76
17:Q1:276:LEU:HD13	17:Q1:296:GLN:NE2	2.01	0.76
17:Q1:381:TYR:CA	17:Q1:512:ILE:HG13	2.14	0.76
17:Q1:382:ARG:CA	17:Q1:512:ILE:HG12	2.16	0.76
17:Q1:456:ILE:HG13	17:Q1:468:LEU:HB2	1.67	0.76
17:Q1:651:ASN:HA	17:Q1:654:VAL:HG22	1.67	0.76
17:Q1:745:ILE:HD11	17:Q1:800:GLN:HG3	1.66	0.76
17:Q2:104:LYS:CB	17:Q2:120:ILE:HD11	2.16	0.76
17:Q2:503:TYR:HE1	17:Q2:538:ILE:HG13	1.50	0.76
17:Q2:650:LEU:O	17:Q2:654:VAL:HG13	1.85	0.76
17:Q2:725:PHE:CB	17:Q2:744:LYS:HE3	2.14	0.76
19:R2:575:GLU:O	19:R2:579:GLN:HG2	1.86	0.76
26:Y2:1372:LYS:C	26:Y2:1372:LYS:H	1.85	0.76
27:Z1:26:ILE:HD12	27:Z1:37:PHE:HE1	1.49	0.76
27:Z1:329:LYS:CE	27:Z1:333:MET:HG3	2.14	0.76
27:Z1:541:LYS:HZ3	27:Z2:553:ILE:HG13	1.47	0.76
27:Z2:149:ASP:CG	27:Z2:182:ILE:CB	2.53	0.76
27:Z2:642:ASN:HD21	27:Z2:646:HIS:HE1	1.31	0.76
7:G1:252:LEU:HD23	15:O2:244:GLU:CG	2.15	0.76
9:I1:841:PHE:HE1	15:O1:191:ARG:NH2	1.52	0.76
9:I1:909:ARG:CD	15:O1:205:ARG:HH22	1.89	0.76
9:I1:913:ALA:H	13:M1:541:LEU:CD2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:965:ALA:HB2	15:O1:185:ALA:CA	2.15	0.76
9:I2:1049:LEU:CB	14:N3:292:ARG:O	2.33	0.76
9:I2:1051:LYS:HD2	14:N3:289:PHE:CG	2.19	0.76
17:Q1:331:LEU:HD11	17:Q1:351:ILE:HG21	1.67	0.76
17:Q1:1043:ARG:HH12	17:Q1:1113:ILE:HG23	1.49	0.76
17:Q2:285:ILE:HD13	17:Q2:295:TRP:HD1	1.47	0.76
17:Q2:972:CYS:HB3	17:Q2:975:PHE:HD2	1.51	0.76
18:R1:575:GLU:O	18:R1:579:GLN:HG2	1.85	0.76
18:R1:621:GLN:O	18:R1:625:LYS:HG2	1.85	0.76
19:R2:706:GLN:O	19:R2:710:LYS:HB2	1.85	0.76
22:U1:296:LEU:CA	27:Z1:657:TYR:HB2	1.92	0.76
25:X2:658:TYR:CD2	27:Z2:549:ILE:CD1	2.62	0.76
25:X2:695:GLN:HG3	27:Z2:431:TRP:HA	1.68	0.76
25:X2:699:TYR:N	27:Z2:49:LEU:CD1	2.49	0.76
25:X2:745:TYR:HB3	27:Z1:104:SER:CB	2.15	0.76
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:CD2	2.16	0.76
26:Y2:1312:ASN:O	27:Z2:609:LEU:HD11	1.84	0.76
27:Z1:133:HIS:CE1	27:Z1:211:PHE:CD1	2.73	0.76
27:Z1:149:ASP:CG	27:Z1:182:ILE:CB	2.53	0.76
27:Z2:117:ASP:HA	27:Z2:124:LYS:HZ1	0.97	0.76
1:A4:785:ILE:HD11	1:A4:825:ARG:HG2	1.67	0.76
9:I1:919:ALA:O	15:O1:191:ARG:CZ	2.33	0.76
9:I2:968:PRO:HG3	14:N3:300:ALA:O	1.85	0.76
17:Q1:120:ILE:HD13	17:Q1:121:THR:N	2.01	0.76
17:Q2:745:ILE:HD13	17:Q2:800:GLN:OE1	1.85	0.76
18:R1:527:VAL:HB	18:R1:580:PHE:CE1	2.20	0.76
19:R2:527:VAL:HB	19:R2:580:PHE:CE1	2.20	0.76
19:R2:614:PRO:HA	19:R2:617:ILE:CG2	2.16	0.76
20:S1:548:TYR:OH	21:T1:18:ASP:OD2	2.01	0.76
23:V1:141:ASN:O	23:V1:145:ASN:ND2	2.18	0.76
26:Y1:1277:LYS:CD	27:Z1:571:ILE:HG13	2.15	0.76
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:HG13	1.85	0.76
26:Y2:1365:ILE:CG2	26:Y2:1387:LYS:N	2.41	0.76
27:Z1:149:ASP:OD2	27:Z1:182:ILE:CB	2.31	0.76
27:Z1:172:SER:OG	27:Z1:177:ALA:HB2	1.85	0.76
27:Z1:522:GLU:HB3	27:Z1:523:ASN:CA	2.13	0.76
27:Z2:137:TYR:HB2	27:Z2:269:LYS:CE	2.16	0.76
27:Z2:363:LEU:CD2	27:Z2:373:LEU:HD11	2.16	0.76
1:A2:1275:PRO:HD2	1:A1:726:ALA:HB1	0.83	0.76
1:A3:785:ILE:HD11	1:A3:825:ARG:HG2	1.67	0.76
9:I1:908:ARG:CB	15:O1:209:LEU:CD1	2.57	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:918:SER:HG	15:O1:193:ALA:HB2	1.47	0.76
9:I2:978:LYS:NZ	15:O3:182:THR:N	2.34	0.76
17:Q1:58:SER:HB3	17:Q1:70:LYS:HE2	1.65	0.76
17:Q1:382:ARG:NH2	17:Q1:573:LYS:NZ	2.32	0.76
17:Q1:444:GLU:O	17:Q1:504:PHE:CA	2.23	0.76
17:Q1:530:ASP:O	17:Q1:534:THR:HG23	1.85	0.76
17:Q1:650:LEU:O	17:Q1:654:VAL:HG13	1.85	0.76
17:Q1:725:PHE:CB	17:Q1:744:LYS:HE3	2.14	0.76
17:Q2:1148:ILE:CD1	17:Q2:1155:VAL:HG12	2.15	0.76
24:W2:113:VAL:HG23	24:W2:114:GLU:H	1.49	0.76
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CE2	2.21	0.76
25:X2:684:VAL:HG11	27:Z2:439:LEU:O	1.85	0.76
25:X2:814:LEU:HB2	26:Y2:1402:LEU:HD13	1.67	0.76
26:Y1:1410:GLN:CA	27:Z1:711:LYS:HE3	2.16	0.76
27:Z2:41:ASN:HD21	27:Z2:60:SER:N	1.65	0.76
27:Z2:297:TYR:CE1	27:Z2:321:ASP:OD1	2.38	0.76
27:Z2:314:ILE:CG2	27:Z2:326:LEU:CG	2.61	0.76
27:Z2:679:GLU:N	27:Z2:680:TRP:H	1.83	0.76
1:A3:777:LEU:HD12	1:A3:822:ILE:HD11	1.66	0.76
9:I2:809:HIS:HD2	15:O3:244:GLU:N	1.79	0.76
9:I2:921:GLU:CG	16:P3:157:GLU:OE2	2.33	0.76
17:Q1:58:SER:HB2	17:Q1:70:LYS:HE2	1.66	0.76
17:Q1:104:LYS:CB	17:Q1:120:ILE:HD11	2.15	0.76
17:Q1:700:GLU:OE1	17:Q1:758:ILE:HA	1.85	0.76
17:Q1:896:TYR:CG	17:Q1:933:LEU:HD12	2.21	0.76
17:Q2:651:ASN:HA	17:Q2:654:VAL:HG22	1.66	0.76
25:X2:694:ASP:OD2	27:Z2:580:LYS:NZ	2.17	0.76
25:X2:778:LYS:CG	25:X2:792:GLN:C	2.43	0.76
26:Y1:1363:LEU:CD2	26:Y1:1366:LEU:HD12	2.13	0.76
9:I1:1314:LEU:HD22	15:O1:266:GLN:HE21	1.51	0.76
9:I2:921:GLU:HB2	16:P3:157:GLU:CD	2.03	0.76
9:I2:1026:TYR:CD1	13:M3:612:PRO:N	2.42	0.76
9:I2:1029:LEU:CD2	13:M3:613:ASP:OD2	2.34	0.76
17:Q1:228:ILE:CD1	17:Q1:248:LEU:HB2	2.16	0.76
17:Q1:540:HIS:CD2	17:Q1:544:LYS:HD2	2.20	0.76
17:Q1:595:ASN:O	17:Q1:598:ILE:HG22	1.84	0.76
17:Q1:1071:PRO:HB3	17:Q1:1155:VAL:HG23	1.67	0.76
17:Q2:264:ASN:HB3	17:Q2:289:LYS:HD3	1.67	0.76
26:Y1:1220:THR:O	26:Y1:1224:GLU:HG3	1.86	0.76
26:Y1:1299:VAL:O	26:Y1:1303:ILE:HG12	1.84	0.76
26:Y1:1443:MET:HE1	27:Z1:332:GLU:OE1	0.95	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1332:LYS:CB	27:Z1:109:PHE:HZ	1.99	0.76
27:Z1:133:HIS:CE1	27:Z1:211:PHE:HD1	2.02	0.76
27:Z1:137:TYR:HB2	27:Z1:269:LYS:CE	2.16	0.76
27:Z1:209:TYR:CB	27:Z1:210:PRO:HD2	1.84	0.76
27:Z1:252:GLN:HA	27:Z1:335:MET:HE3	1.65	0.76
27:Z2:145:LEU:HD21	27:Z2:182:ILE:CG2	2.16	0.76
27:Z2:192:LEU:HD11	27:Z2:226:ILE:HD13	1.67	0.76
27:Z2:428:TYR:HH	27:Z2:435:SER:CB	1.99	0.76
1:A2:1200:ARG:HG3	1:A1:595:GLU:HB3	1.67	0.76
1:A3:1200:ARG:CB	1:A4:591:ASP:CB	2.60	0.76
1:A3:1223:GLU:CD	1:A4:648:TYR:H	1.89	0.76
1:A3:1223:GLU:HB3	1:A4:648:TYR:CE2	1.32	0.76
1:A3:1327:VAL:C	4:D3:876:SER:CB	2.50	0.76
1:A4:827:ILE:HD13	1:A4:849:SER:CB	2.16	0.76
9:I1:917:TYR:HD1	13:M1:534:GLN:OE1	1.22	0.76
9:I1:967:SER:HG	15:O1:178:ASP:HA	1.50	0.76
9:I1:1038:ILE:CG1	15:O1:179:LEU:HD11	1.93	0.76
9:I2:809:HIS:HB3	15:O3:244:GLU:N	1.82	0.76
9:I2:911:PRO:CB	15:O3:197:ARG:CG	2.62	0.76
17:Q1:587:LEU:O	17:Q1:587:LEU:HD23	1.86	0.76
17:Q1:929:LEU:HD23	18:R1:714:TYR:CZ	2.20	0.76
17:Q1:1068:GLU:HB2	17:Q1:1070:LEU:CD2	2.12	0.76
25:X1:807:LEU:HD22	27:Z1:698:ASN:HA	1.63	0.76
25:X2:778:LYS:CE	25:X2:791:ILE:CG2	2.55	0.76
26:Y1:1291:LEU:HD13	27:Z1:581:PHE:HD1	1.48	0.76
26:Y1:1342:GLN:O	26:Y1:1346:ARG:HG3	1.86	0.76
26:Y2:1220:THR:O	26:Y2:1224:GLU:HG3	1.86	0.76
26:Y2:1288:ILE:CD1	27:Z2:7:LEU:N	2.45	0.76
26:Y2:1332:LYS:CE	27:Z1:97:TYR:O	2.34	0.76
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CH2	2.20	0.76
27:Z1:55:HIS:CE1	27:Z1:98:SER:HG	2.04	0.76
27:Z1:303:ALA:HB3	27:Z1:363:LEU:HD22	1.58	0.76
27:Z1:363:LEU:CD2	27:Z1:373:LEU:HD11	2.16	0.76
27:Z1:387:MET:HE3	27:Z1:391:SER:HB3	0.77	0.76
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HG	1.66	0.76
9:I1:1357:LYS:HE3	15:O1:263:GLN:O	1.86	0.76
17:Q1:100:ASN:CG	17:Q1:105:VAL:HG22	2.06	0.76
18:R1:582:GLU:HG2	18:R1:586:GLN:OE1	1.85	0.76
20:S2:416:ASP:HA	20:S2:443:THR:HG21	1.66	0.76
23:V2:141:ASN:O	23:V2:145:ASN:ND2	2.18	0.76
24:W1:401:THR:O	24:W1:720:PHE:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:742:GLN:HG3	25:X1:743:GLN:CA	2.03	0.76
25:X2:695:GLN:HB2	27:Z2:48:VAL:HG13	1.64	0.76
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:NZ	2.01	0.76
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:CE1	2.12	0.76
27:Z1:148:ASP:CB	27:Z1:150:THR:HG23	2.15	0.76
27:Z2:129:LYS:CG	27:Z2:145:LEU:HB3	2.13	0.76
27:Z2:149:ASP:OD2	27:Z2:182:ILE:CB	2.31	0.76
1:A3:1332:ARG:NH1	4:D3:899:THR:CA	2.47	0.76
6:F1:1528:ALA:O	1:A1:1099:GLN:NE2	2.15	0.76
14:N1:464:LEU:HD11	14:N4:442:GLU:OE1	1.84	0.76
17:Q1:557:LEU:HD21	17:Q1:598:ILE:CG2	2.16	0.76
17:Q1:903:LEU:HD12	17:Q1:926:VAL:HG13	1.68	0.76
17:Q2:276:LEU:HD13	17:Q2:296:GLN:NE2	2.01	0.76
19:R2:613:ILE:HG23	19:R2:614:PRO:HD3	1.66	0.76
19:R2:664:LEU:HD12	19:R2:705:PHE:HZ	1.51	0.76
25:X2:690:GLN:C	27:Z2:7:LEU:CD2	2.37	0.76
26:Y1:1235:MET:O	26:Y1:1239:PHE:CE2	2.39	0.76
27:Z1:145:LEU:HD21	27:Z1:182:ILE:CG2	2.16	0.76
27:Z1:192:LEU:HD11	27:Z1:226:ILE:HD13	1.67	0.76
27:Z1:293:GLU:O	27:Z1:296:ASP:OD1	2.03	0.76
27:Z1:395:LYS:CG	27:Z2:266:ARG:CG	2.63	0.76
27:Z2:112:PHE:HB2	27:Z2:156:ILE:HG23	1.68	0.76
27:Z2:133:HIS:ND1	27:Z2:211:PHE:CE1	2.52	0.76
27:Z2:182:ILE:O	27:Z2:182:ILE:CG2	2.21	0.76
27:Z2:211:PHE:HD1	27:Z2:211:PHE:O	1.69	0.76
1:A2:1272:GLY:C	1:A1:642:ARG:HG3	2.03	0.75
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD13	1.93	0.75
9:I1:1048:GLU:CB	14:N1:293:LYS:CE	2.63	0.75
9:I2:1168:ALA:CB	15:O3:269:ILE:O	2.17	0.75
10:J1:252:LEU:HD22	15:O1:269:ILE:O	1.86	0.75
17:Q2:564:PHE:HZ	17:Q2:588:ILE:HD13	1.50	0.75
17:Q2:587:LEU:O	17:Q2:587:LEU:HD23	1.86	0.75
17:Q2:1043:ARG:HH12	17:Q2:1113:ILE:HG23	1.49	0.75
19:R2:628:PHE:CZ	19:R2:629:GLU:HG2	2.20	0.75
22:U1:245:ILE:HG13	27:Z1:657:TYR:HE1	1.51	0.75
24:W1:527:SER:CB	24:W1:739:PHE:O	2.35	0.75
25:X1:644:TRP:CD1	25:X1:648:LEU:HD11	2.18	0.75
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:CD2	2.16	0.75
26:Y2:1332:LYS:CA	26:Y2:1333:ASP:H	1.98	0.75
26:Y2:1410:GLN:CA	27:Z2:711:LYS:HE3	2.15	0.75
27:Z1:184:ASP:OD2	27:Z1:197:LEU:HB3	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:827:ILE:HD13	1:A1:849:SER:CB	2.16	0.75
1:A2:777:LEU:HD12	1:A2:822:ILE:HD11	1.66	0.75
1:A2:1220:PRO:C	1:A1:599:ARG:CB	2.54	0.75
1:A2:1221:ILE:CG1	1:A1:596:ARG:CD	2.63	0.75
4:D1:973:GLN:NE2	1:A1:843:ARG:HH22	1.84	0.75
6:F1:267:GLU:CB	11:K1:637:SER:OG	2.22	0.75
7:G1:256:GLN:N	15:O2:245:GLU:HB2	2.01	0.75
9:I1:1049:LEU:CD2	15:O1:170:LEU:HD22	2.15	0.75
9:I2:1307:LEU:CA	14:N3:414:ALA:O	2.34	0.75
17:Q1:382:ARG:HB3	17:Q1:508:ASN:O	1.85	0.75
17:Q2:530:ASP:O	17:Q2:534:THR:HG23	1.85	0.75
17:Q2:798:LYS:NZ	17:Q2:822:ASP:HB3	2.01	0.75
17:Q2:843:PHE:HE1	17:Q2:875:PHE:HZ	1.32	0.75
17:Q2:929:LEU:HD22	19:R2:691:THR:CB	2.16	0.75
17:Q2:980:ILE:O	17:Q2:983:VAL:HG22	1.86	0.75
19:R2:582:GLU:HG2	19:R2:586:GLN:OE1	1.85	0.75
22:U1:290:SER:OG	25:X1:798:ASN:CB	2.27	0.75
25:X1:772:VAL:CG1	27:Z1:662:LEU:HD12	2.16	0.75
25:X2:640:LEU:HB3	26:Y2:1218:PHE:HZ	1.51	0.75
27:Z1:129:LYS:CG	27:Z1:145:LEU:HB3	2.13	0.75
27:Z1:302:ILE:O	27:Z1:302:ILE:HG13	1.85	0.75
27:Z2:144:VAL:HB	27:Z2:152:THR:OG1	1.86	0.75
1:A3:873:PRO:HB2	4:D1:532:LEU:HD21	1.67	0.75
6:F1:990:GLN:CD	9:I1:1394:ASN:ND2	2.40	0.75
9:I1:980:ILE:CG1	15:O1:172:ALA:HA	2.16	0.75
9:I2:902:GLN:HB3	13:M3:580:LYS:HB3	0.76	0.75
9:I2:921:GLU:N	16:P3:157:GLU:OE2	2.19	0.75
9:I2:1023:ASP:O	13:M3:612:PRO:HG2	1.85	0.75
9:I2:1049:LEU:HD12	16:P3:142:LEU:CA	2.16	0.75
17:Q1:584:LYS:HB3	17:Q1:586:ASP:HB2	1.67	0.75
17:Q1:979:SER:HB2	17:Q1:1104:ILE:HG21	1.69	0.75
17:Q2:210:LEU:HD11	17:Q2:212:LEU:CD2	2.16	0.75
17:Q2:584:LYS:HB3	17:Q2:586:ASP:HB2	1.67	0.75
25:X2:695:GLN:HG3	27:Z2:431:TRP:CE3	2.15	0.75
26:Y1:1437:VAL:HG21	26:Y2:1429:LYS:HE2	1.68	0.75
27:Z1:10:LEU:HD22	27:Z1:431:TRP:CZ2	2.21	0.75
27:Z1:144:VAL:HB	27:Z1:152:THR:OG1	1.86	0.75
27:Z1:642:ASN:O	27:Z1:644:PHE:N	2.19	0.75
27:Z2:133:HIS:CE1	27:Z2:211:PHE:HD1	2.02	0.75
6:F1:142:ALA:CB	9:I1:1391:THR:O	2.33	0.75
7:G2:254:ASN:ND2	15:O4:256:TYR:CB	2.26	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1051:LYS:CB	14:N1:293:LYS:HZ3	1.99	0.75
9:I2:1098:LEU:CB	15:O3:269:ILE:N	2.48	0.75
17:Q2:228:ILE:CD1	17:Q2:248:LEU:HB2	2.16	0.75
25:X1:788:ASP:O	25:X1:788:ASP:N	2.20	0.75
25:X2:778:LYS:O	27:Z2:680:TRP:CH2	2.39	0.75
27:Z2:46:TYR:CE1	27:Z2:48:VAL:HG22	2.19	0.75
1:A2:1328:ARG:CG	4:D1:898:ASP:OD2	2.35	0.75
6:F1:161:ALA:HB3	9:I1:1336:MET:H	1.52	0.75
9:I1:1046:HIS:HE1	15:O1:168:ALA:CA	1.97	0.75
9:I2:899:LEU:HB3	13:M3:581:LEU:HA	1.69	0.75
9:I2:964:SER:HA	16:P3:149:ARG:C	2.06	0.75
10:J1:252:LEU:HD21	15:O1:269:ILE:CG2	2.12	0.75
17:Q1:564:PHE:HZ	17:Q1:588:ILE:HD13	1.50	0.75
17:Q2:456:ILE:HG13	17:Q2:468:LEU:HB2	1.67	0.75
17:Q2:545:TYR:CD2	17:Q2:546:ILE:HD12	2.21	0.75
17:Q2:557:LEU:HD21	17:Q2:598:ILE:CG2	2.16	0.75
17:Q2:557:LEU:HG	17:Q2:560:ARG:NH1	2.02	0.75
17:Q2:896:TYR:CG	17:Q2:933:LEU:HD12	2.21	0.75
19:R2:621:GLN:HB3	19:R2:670:LYS:NZ	2.01	0.75
25:X1:658:TYR:CD2	27:Z1:549:ILE:CD1	2.62	0.75
25:X1:815:GLU:N	26:Y1:1402:LEU:HD21	2.02	0.75
25:X2:717:LYS:HE3	26:Y2:1320:LEU:CD1	2.13	0.75
25:X2:778:LYS:NZ	25:X2:795:LYS:HE2	1.97	0.75
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:HH22	1.96	0.75
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:HG13	1.85	0.75
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:N	2.00	0.75
27:Z1:383:GLN:NE2	27:Z1:417:ILE:HG21	2.00	0.75
27:Z1:395:LYS:HG3	27:Z2:266:ARG:HG2	1.68	0.75
27:Z2:26:ILE:HD12	27:Z2:37:PHE:HE1	1.50	0.75
27:Z2:209:TYR:CZ	27:Z2:335:MET:CA	2.69	0.75
27:Z2:312:ASN:HD21	27:Z2:397:ILE:CD1	2.00	0.75
27:Z2:522:GLU:HG3	27:Z2:524:GLN:H	1.50	0.75
1:A3:1221:ILE:O	1:A4:599:ARG:HB2	1.86	0.75
1:A3:1332:ARG:HH21	4:D3:902:SER:C	1.90	0.75
1:A3:1400:SER:O	4:D3:873:GLN:HB3	1.86	0.75
4:D1:969:HIS:ND1	1:A1:711:VAL:CG2	2.48	0.75
9:I1:966:TRP:HZ3	15:O1:179:LEU:HB3	1.45	0.75
9:I2:900:ARG:HD3	15:O3:235:ASN:N	2.02	0.75
9:I2:928:LEU:CB	15:O3:179:LEU:HD22	2.16	0.75
10:J1:252:LEU:CD1	15:O1:273:ASP:CG	2.54	0.75
17:Q2:742:LEU:CA	17:Q2:745:ILE:HD12	2.14	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:621:GLN:O	19:R2:625:LYS:HG2	1.85	0.75
19:R2:677:LEU:HD12	19:R2:684:ILE:CG2	2.17	0.75
20:S1:416:ASP:HA	20:S1:443:THR:HG21	1.66	0.75
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CE2	2.21	0.75
25:X2:688:HIS:CG	27:Z2:445:LEU:HD11	2.21	0.75
26:Y1:1316:GLU:CD	27:Z1:609:LEU:CD2	2.51	0.75
26:Y2:1431:MET:N	26:Y2:1434:PHE:CD2	2.49	0.75
27:Z1:188:SER:OG	27:Z1:195:TYR:CE2	2.29	0.75
27:Z1:289:PRO:CD	27:Z1:289:PRO:N	2.46	0.75
27:Z2:383:GLN:NE2	27:Z2:417:ILE:CG1	2.48	0.75
6:F1:135:VAL:HG12	9:I1:1336:MET:HG2	0.77	0.75
9:I1:912:VAL:CB	13:M1:542:ASP:OD1	2.34	0.75
9:I1:913:ALA:H	13:M1:541:LEU:HD22	1.49	0.75
9:I2:803:ASP:OD1	15:O3:251:ILE:HD13	1.87	0.75
9:I2:928:LEU:HB3	15:O3:179:LEU:CD1	2.00	0.75
9:I2:964:SER:H	16:P3:152:LYS:H	1.26	0.75
9:I2:1103:LEU:CA	15:O3:275:LEU:HD23	2.13	0.75
9:I2:1103:LEU:CG	13:M3:614:ASP:CB	2.64	0.75
9:I2:1109:LEU:CD2	15:O3:284:LYS:HZ3	2.00	0.75
9:I2:1254:VAL:C	14:N3:407:ALA:O	2.23	0.75
17:Q1:585:LEU:O	17:Q1:588:ILE:HG22	1.86	0.75
17:Q1:1148:ILE:CD1	17:Q1:1155:VAL:HG12	2.15	0.75
17:Q2:60:VAL:CG2	17:Q2:63:GLU:HG3	2.17	0.75
18:R1:677:LEU:HD12	18:R1:684:ILE:CG2	2.17	0.75
20:S2:292:ILE:HD12	20:S2:292:ILE:H	1.52	0.75
22:U1:209:PRO:CB	27:Z1:662:LEU:HB2	2.14	0.75
22:U1:297:LEU:N	27:Z1:653:GLN:C	2.37	0.75
26:Y1:1449:ILE:O	26:Y1:1453:PHE:CD2	2.40	0.75
26:Y2:1332:LYS:HD2	27:Z1:94:PRO:CG	1.99	0.75
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HG	1.66	0.75
27:Z2:205:ILE:O	27:Z2:206:PHE:HD1	1.69	0.75
27:Z2:287:ILE:HD11	27:Z2:348:LEU:CD1	2.15	0.75
6:F1:156:LEU:HD12	9:I1:1340:LEU:CD2	2.15	0.75
7:G2:250:THR:N	15:O4:254:ARG:CD	2.49	0.75
7:G2:254:ASN:ND2	15:O4:256:TYR:CA	2.50	0.75
9:I2:976:ARG:N	14:N3:297:ALA:O	2.19	0.75
9:I2:976:ARG:NE	14:N3:293:LYS:HG2	1.82	0.75
17:Q1:827:THR:CA	17:Q1:830:SER:HB2	2.16	0.75
17:Q2:585:LEU:O	17:Q2:588:ILE:HG22	1.87	0.75
17:Q2:827:THR:CA	17:Q2:830:SER:HB2	2.16	0.75
18:R1:70:LEU:HD22	18:R1:343:ILE:HD11	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:621:GLN:HB3	18:R1:670:LYS:NZ	2.01	0.75
25:X1:793:LEU:HD22	27:Z1:680:TRP:NE1	2.02	0.75
25:X1:815:GLU:HG2	26:Y1:1402:LEU:HG	1.63	0.75
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG21	2.02	0.75
26:Y1:1371:VAL:C	26:Y1:1371:VAL:CA	2.54	0.75
26:Y1:1409:LEU:C	27:Z1:711:LYS:HE2	2.07	0.75
26:Y2:1316:GLU:HG3	27:Z2:609:LEU:CD2	2.11	0.75
26:Y2:1333:ASP:H	27:Z1:94:PRO:N	1.74	0.75
26:Y2:1399:ILE:HG12	27:Z2:701:LEU:HD21	1.68	0.75
27:Z1:205:ILE:HG22	27:Z1:285:PHE:HD2	1.51	0.75
27:Z1:252:GLN:HA	27:Z1:335:MET:SD	2.27	0.75
27:Z2:172:SER:OG	27:Z2:177:ALA:HB2	1.84	0.75
27:Z2:343:VAL:CA	27:Z2:346:ASN:HD21	2.00	0.75
27:Z2:416:ASP:CB	27:Z2:569:LYS:HZ3	1.92	0.75
1:A3:1091:VAL:CG1	4:D3:1100:PRO:HG2	2.16	0.75
6:F1:982:PRO:HB2	9:I1:1459:ASN:HD21	1.49	0.75
7:G1:256:GLN:NE2	7:G1:263:MET:SD	2.60	0.75
9:I1:1360:GLU:C	15:O1:266:GLN:HE22	1.73	0.75
9:I2:806:VAL:CB	15:O3:247:TRP:HB3	2.15	0.75
9:I2:964:SER:H	16:P3:152:LYS:CG	1.88	0.75
9:I2:1108:PRO:HB3	15:O3:278:GLU:O	1.86	0.75
9:I2:1308:THR:HG22	14:N3:414:ALA:HB2	1.67	0.75
17:Q1:210:LEU:HD11	17:Q1:212:LEU:CD2	2.16	0.75
17:Q1:264:ASN:HB3	17:Q1:289:LYS:HD3	1.67	0.75
17:Q1:599:LYS:O	17:Q1:603:ILE:HG13	1.87	0.75
17:Q1:641:VAL:O	17:Q1:645:ILE:HG22	1.86	0.75
17:Q2:870:VAL:HA	17:Q2:873:GLN:HG2	1.68	0.75
25:X1:815:GLU:N	26:Y1:1402:LEU:CD2	2.50	0.75
25:X2:777:ASN:CB	25:X2:793:LEU:HB3	2.17	0.75
26:Y2:1332:LYS:CG	27:Z1:97:TYR:H	1.98	0.75
27:Z1:24:ARG:HH22	27:Z1:440:MET:HG2	1.51	0.75
27:Z1:207:ALA:CB	27:Z1:285:PHE:HZ	2.00	0.75
27:Z1:216:LEU:HD11	27:Z1:272:ILE:HD13	1.63	0.75
27:Z1:216:LEU:HD21	27:Z1:272:ILE:HD13	1.67	0.75
27:Z1:541:LYS:HE2	27:Z2:553:ILE:CG1	1.99	0.75
27:Z2:184:ASP:OD2	27:Z2:197:LEU:HB3	1.85	0.75
27:Z2:252:GLN:HA	27:Z2:335:MET:SD	2.26	0.75
1:A2:1226:LEU:HD23	1:A1:647:GLU:CG	2.17	0.74
1:A3:1272:GLY:CA	1:A4:727:ASN:HB3	2.17	0.74
9:I1:1048:GLU:OE2	15:O1:170:LEU:CA	2.35	0.74
9:I2:1030:ARG:NH2	13:M3:607:SER:CB	2.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:705:LYS:NZ	17:Q2:710:ILE:HG21	2.01	0.74
17:Q2:746:VAL:HG22	17:Q2:750:TYR:HE2	1.52	0.74
17:Q2:837:ASN:HA	17:Q2:842:GLU:HB2	1.67	0.74
17:Q2:979:SER:HB2	17:Q2:1104:ILE:HG21	1.69	0.74
19:R2:70:LEU:HD22	19:R2:343:ILE:HD11	1.68	0.74
19:R2:514:VAL:HB	19:R2:549:PHE:CZ	2.22	0.74
19:R2:677:LEU:HD12	19:R2:684:ILE:HG22	1.67	0.74
25:X1:644:TRP:HZ3	26:Y1:1225:PHE:CB	2.00	0.74
25:X2:680:TYR:OH	27:Z2:439:LEU:CG	2.34	0.74
25:X2:726:VAL:HG12	25:X2:726:VAL:O	1.84	0.74
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CG	2.16	0.74
27:Z1:359:GLU:HG2	27:Z1:361:LYS:HE3	1.69	0.74
27:Z2:207:ALA:CB	27:Z2:285:PHE:HZ	2.00	0.74
27:Z2:208:PHE:CE2	27:Z2:279:ALA:O	2.40	0.74
27:Z2:368:GLU:OE1	27:Z2:428:TYR:CE2	2.40	0.74
1:A2:1273:ALA:H	1:A1:646:ILE:HD11	1.50	0.74
6:F2:159:ALA:O	9:I2:1197:ASN:HA	1.87	0.74
9:I1:1050:SER:C	14:N1:293:LYS:HG3	2.01	0.74
9:I2:961:ARG:HG3	16:P3:155:GLU:C	2.08	0.74
10:J2:248:VAL:HG22	14:N3:428:ASP:OD2	1.88	0.74
17:Q1:700:GLU:HB3	17:Q1:758:ILE:CG1	2.18	0.74
17:Q1:980:ILE:O	17:Q1:983:VAL:HG22	1.86	0.74
17:Q2:426:ILE:HG21	17:Q2:477:PHE:HE2	1.51	0.74
17:Q2:426:ILE:HD12	17:Q2:479:VAL:HG22	1.69	0.74
19:R2:511:ILE:O	19:R2:514:VAL:HG12	1.87	0.74
19:R2:674:ALA:HB1	19:R2:676:LYS:HG2	1.67	0.74
20:S1:568:ALA:CA	21:T1:86:ASN:OD1	2.35	0.74
22:U1:299:GLU:CG	27:Z1:652:GLN:C	2.47	0.74
25:X1:800:HIS:CD2	27:Z1:694:ILE:HD12	2.20	0.74
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CG	2.16	0.74
25:X2:680:TYR:OH	27:Z2:439:LEU:HG	1.87	0.74
27:Z1:10:LEU:HD23	27:Z1:431:TRP:HH2	1.46	0.74
27:Z1:403:ASN:N	27:Z2:262:ASN:OD1	2.03	0.74
1:A4:625:LEU:O	4:D3:981:VAL:HG21	1.87	0.74
6:F1:1046:HIS:CD2	9:I1:1390:PHE:CE2	2.75	0.74
7:G1:253:SER:HB2	13:M2:595:MET:CE	2.17	0.74
7:G1:255:LEU:HD22	15:O2:244:GLU:N	2.01	0.74
7:G2:256:GLN:NE2	7:G2:263:MET:SD	2.60	0.74
9:I1:918:SER:CB	15:O1:193:ALA:HB2	2.12	0.74
9:I2:1028:CYS:C	13:M3:613:ASP:OD1	2.24	0.74
9:I2:1254:VAL:HA	14:N3:408:MET:CA	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:528:GLU:HA	17:Q1:579:ILE:HG13	1.69	0.74
17:Q1:557:LEU:HG	17:Q1:560:ARG:NH1	2.02	0.74
17:Q1:987:LEU:HB2	17:Q1:1005:LEU:HD23	1.69	0.74
17:Q2:120:ILE:HD13	17:Q2:121:THR:N	2.01	0.74
17:Q2:599:LYS:O	17:Q2:603:ILE:HG13	1.87	0.74
17:Q2:903:LEU:HD12	17:Q2:926:VAL:HG13	1.68	0.74
18:R1:438:GLU:O	18:R1:442:LEU:HB2	1.87	0.74
18:R1:532:ALA:HA	18:R1:535:ARG:NE	2.02	0.74
19:R2:250:LEU:HD13	20:S2:317:GLY:HA3	1.70	0.74
19:R2:555:ILE:HD13	19:R2:555:ILE:O	1.85	0.74
19:R2:664:LEU:HB3	19:R2:690:PHE:CZ	2.22	0.74
22:U1:340:LYS:HG3	27:Z1:646:HIS:NE2	2.02	0.74
25:X1:662:ILE:HD12	27:Z1:549:ILE:HG23	1.69	0.74
25:X2:644:TRP:HZ3	26:Y2:1225:PHE:CB	2.00	0.74
26:Y2:1316:GLU:HG2	27:Z2:609:LEU:CD1	2.17	0.74
27:Z1:403:ASN:N	27:Z2:262:ASN:ND2	2.21	0.74
27:Z2:642:ASN:C	27:Z2:644:PHE:H	1.90	0.74
1:A3:1083:SER:O	4:D3:1095:ARG:HD2	1.87	0.74
9:I2:925:LEU:HD11	15:O3:186:PHE:N	2.02	0.74
9:I2:963:LEU:H	16:P3:151:LYS:CD	2.01	0.74
9:I2:1099:ARG:CG	15:O3:268:GLY:CA	2.62	0.74
9:I2:1099:ARG:NH1	13:M3:609:GLY:CA	2.49	0.74
17:Q1:222:SER:CB	17:Q1:267:VAL:HG21	2.17	0.74
17:Q1:641:VAL:O	17:Q1:644:VAL:HG12	1.87	0.74
17:Q1:728:ALA:O	17:Q1:732:GLU:HG3	1.88	0.74
17:Q1:792:LEU:O	17:Q1:795:VAL:HG12	1.88	0.74
19:R2:580:PHE:O	19:R2:584:ILE:HG13	1.87	0.74
22:U1:212:LYS:HZ1	25:X1:768:GLU:CB	2.00	0.74
22:U1:289:GLN:CA	25:X1:798:ASN:N	2.50	0.74
22:U1:295:GLU:HA	27:Z1:658:LEU:HG	1.70	0.74
25:X1:721:LEU:CD2	26:Y1:1319:PHE:HD2	2.00	0.74
25:X2:721:LEU:CD2	26:Y2:1319:PHE:HD2	2.00	0.74
25:X2:815:GLU:N	26:Y2:1402:LEU:HD21	2.02	0.74
27:Z1:46:TYR:CE1	27:Z1:48:VAL:HG22	2.19	0.74
27:Z1:165:VAL:CG1	27:Z1:168:LYS:HE2	2.17	0.74
27:Z1:205:ILE:O	27:Z1:206:PHE:HD1	1.70	0.74
27:Z1:209:TYR:CZ	27:Z1:335:MET:CA	2.69	0.74
27:Z1:358:ARG:NH1	27:Z1:382:GLN:NE2	2.35	0.74
6:F1:135:VAL:C	9:I1:1392:VAL:HG11	2.06	0.74
9:I1:899:LEU:HG	15:O1:197:ARG:NH2	2.03	0.74
9:I2:902:GLN:CB	13:M3:580:LYS:HB2	1.64	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:748:ILE:HD13	17:Q1:748:ILE:O	1.88	0.74
17:Q1:900:MET:CG	17:Q1:900:MET:CE	2.65	0.74
17:Q2:641:VAL:O	17:Q2:644:VAL:HG12	1.86	0.74
18:R1:674:ALA:HB1	18:R1:676:LYS:HG2	1.67	0.74
23:V2:152:LEU:HD21	23:V2:182:LEU:HB3	1.70	0.74
25:X1:790:ASN:CA	27:Z1:680:TRP:HZ2	2.00	0.74
25:X2:815:GLU:N	26:Y2:1402:LEU:CD2	2.51	0.74
26:Y1:1399:ILE:HG12	27:Z1:701:LEU:HD21	1.69	0.74
27:Z1:24:ARG:HD3	27:Z1:441:SER:O	1.87	0.74
27:Z1:112:PHE:HB2	27:Z1:156:ILE:HG23	1.68	0.74
27:Z1:211:PHE:HD1	27:Z1:211:PHE:O	1.69	0.74
27:Z1:401:ASP:O	27:Z2:262:ASN:CB	2.36	0.74
27:Z2:26:ILE:HD12	27:Z2:37:PHE:CE1	2.22	0.74
27:Z2:252:GLN:CB	27:Z2:335:MET:CE	2.66	0.74
27:Z2:522:GLU:HG3	27:Z2:523:ASN:CA	2.17	0.74
6:F1:159:ALA:C	9:I1:1338:PHE:HD2	1.91	0.74
6:F1:267:GLU:OE1	9:I1:1202:VAL:HG13	1.88	0.74
7:G2:251:TYR:N	15:O4:251:ILE:HG22	2.03	0.74
9:I1:911:PRO:O	13:M1:541:LEU:HD23	1.87	0.74
9:I2:767:ASP:OD1	9:I2:771:ASN:ND2	2.20	0.74
17:Q1:381:TYR:C	17:Q1:512:ILE:HB	2.08	0.74
17:Q1:528:GLU:HB2	17:Q1:579:ILE:HD12	1.70	0.74
17:Q1:543:GLY:HA3	17:Q1:591:PHE:HZ	1.52	0.74
17:Q1:746:VAL:HG22	17:Q1:750:TYR:HE2	1.52	0.74
17:Q1:827:THR:HA	17:Q1:830:SER:CB	2.18	0.74
17:Q1:972:CYS:HB3	17:Q1:975:PHE:HD2	1.50	0.74
17:Q1:1016:PHE:HZ	17:Q1:1068:GLU:HG3	1.50	0.74
17:Q2:684:GLU:O	17:Q2:688:THR:HB	1.87	0.74
17:Q2:792:LEU:O	17:Q2:795:VAL:HG12	1.88	0.74
17:Q2:1152:THR:OG1	17:Q2:1154:THR:HG22	1.87	0.74
18:R1:511:ILE:O	18:R1:514:VAL:HG12	1.87	0.74
18:R1:664:LEU:HB3	18:R1:690:PHE:CZ	2.22	0.74
18:R1:664:LEU:HD12	18:R1:705:PHE:HZ	1.51	0.74
20:S1:292:ILE:HD12	20:S1:292:ILE:H	1.52	0.74
26:Y1:1430:ASP:O	26:Y1:1434:PHE:CD2	2.16	0.74
26:Y2:1333:ASP:HA	27:Z1:92:GLU:O	1.88	0.74
27:Z2:422:ARG:NH2	27:Z2:442:ASN:HD21	1.86	0.74
1:A4:928:GLY:CA	4:D3:807:GLU:OE1	2.35	0.74
7:G1:249:ASP:O	13:M2:595:MET:CE	2.36	0.74
9:I1:1304:ASN:ND2	15:O1:262:ASP:OD1	2.21	0.74
9:I2:888:GLU:OE2	13:M3:593:ALA:O	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1103:LEU:HD23	15:O3:275:LEU:HD22	1.67	0.74
17:Q1:69:VAL:HG12	17:Q1:477:PHE:CD1	2.20	0.74
17:Q1:426:ILE:HD12	17:Q1:479:VAL:HG22	1.69	0.74
17:Q1:545:TYR:CD2	17:Q1:546:ILE:HD12	2.21	0.74
17:Q1:571:VAL:HG23	17:Q1:577:TYR:OH	1.87	0.74
17:Q1:837:ASN:HA	17:Q1:842:GLU:HB2	1.67	0.74
17:Q1:936:LYS:HB2	17:Q1:940:ASP:OD2	1.87	0.74
18:R1:580:PHE:O	18:R1:584:ILE:HG13	1.88	0.74
18:R1:674:ALA:CB	18:R1:676:LYS:HG2	2.17	0.74
22:U1:294:VAL:CA	27:Z1:661:GLU:OE1	2.18	0.74
24:W1:403:ASP:CG	24:W1:723:PHE:O	2.26	0.74
24:W1:525:LEU:O	24:W1:743:ASN:CB	2.36	0.74
24:W1:526:ARG:C	24:W1:740:PHE:HA	2.08	0.74
26:Y1:1294:LYS:HD3	27:Z1:588:TRP:CG	2.23	0.74
26:Y2:1321:MET:CB	27:Z1:51:ASP:CG	2.56	0.74
26:Y2:1409:LEU:C	27:Z2:711:LYS:HE2	2.07	0.74
27:Z1:368:GLU:OE1	27:Z1:428:TYR:CE2	2.40	0.74
27:Z1:540:VAL:N	27:Z2:551:ASN:HB3	2.02	0.74
27:Z2:437:LEU:HB2	27:Z2:448:GLN:CG	2.16	0.74
1:A2:1091:VAL:HA	4:D1:1104:GLU:HG2	1.70	0.74
1:A2:1200:ARG:CB	1:A1:591:ASP:O	2.36	0.74
1:A2:1201:ARG:CB	1:A1:648:TYR:CE1	2.53	0.74
1:A4:827:ILE:HG23	1:A4:849:SER:CA	2.17	0.74
9:I2:896:PRO:HD3	13:M3:588:MET:N	2.02	0.74
9:I2:914:ASN:CA	15:O3:194:GLU:H	2.01	0.74
9:I2:965:ALA:CB	16:P3:152:LYS:CD	2.64	0.74
9:I2:978:LYS:HD2	15:O3:179:LEU:H	1.53	0.74
9:I2:1049:LEU:HD22	14:N3:293:LYS:O	1.88	0.74
17:Q1:705:LYS:NZ	17:Q1:710:ILE:HG21	2.02	0.74
17:Q1:725:PHE:CD1	17:Q1:740:GLU:HG2	2.19	0.74
17:Q1:791:VAL:CG1	17:Q1:792:LEU:HD12	2.18	0.74
17:Q1:798:LYS:NZ	17:Q1:822:ASP:HB3	2.01	0.74
17:Q2:900:MET:CG	17:Q2:900:MET:CE	2.65	0.74
17:Q2:929:LEU:HD23	19:R2:714:TYR:CZ	2.22	0.74
18:R1:452:LEU:HD23	18:R1:452:LEU:H	1.53	0.74
18:R1:664:LEU:HD12	18:R1:705:PHE:CZ	2.23	0.74
19:R2:674:ALA:CB	19:R2:676:LYS:HG2	2.17	0.74
26:Y1:1218:PHE:HE1	26:Y1:1222:GLU:CD	1.88	0.74
26:Y2:1449:ILE:O	26:Y2:1453:PHE:CD2	2.39	0.74
27:Z1:331:LEU:HB3	27:Z1:345:ASN:HB3	1.70	0.74
27:Z2:294:LEU:HD23	27:Z2:353:ARG:NH2	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:HG12	1:A4:730:THR:HG22	1.69	0.74
6:F1:133:GLN:N	9:I1:1333:THR:HG21	2.02	0.74
6:F1:159:ALA:N	9:I1:1339:LEU:N	2.36	0.74
6:F1:1267:ARG:HH21	15:O2:253:LEU:C	1.90	0.74
9:I1:1106:LYS:HB2	13:M1:613:ASP:OD2	1.87	0.74
9:I1:1311:LEU:CD2	15:O1:266:GLN:CA	2.65	0.74
9:I2:978:LYS:CD	15:O3:179:LEU:N	2.49	0.74
17:Q1:491:VAL:O	17:Q1:494:VAL:HG22	1.88	0.74
17:Q1:557:LEU:HD11	17:Q1:598:ILE:HG23	1.70	0.74
17:Q1:610:LEU:HD13	17:Q1:610:LEU:O	1.87	0.74
17:Q1:1152:THR:OG1	17:Q1:1154:THR:HG22	1.87	0.74
17:Q2:641:VAL:O	17:Q2:645:ILE:HG22	1.86	0.74
17:Q2:688:THR:HG23	17:Q2:692:GLU:CG	2.18	0.74
17:Q2:742:LEU:HA	17:Q2:745:ILE:CD1	2.13	0.74
17:Q2:748:ILE:HD13	17:Q2:748:ILE:O	1.87	0.74
17:Q2:936:LYS:HB2	17:Q2:940:ASP:OD2	1.87	0.74
17:Q2:996:VAL:O	17:Q2:997:VAL:HG22	1.87	0.74
26:Y2:1342:GLN:O	26:Y2:1346:ARG:HG3	1.86	0.74
26:Y2:1410:GLN:N	27:Z2:711:LYS:HE3	1.99	0.74
27:Z1:26:ILE:HD12	27:Z1:37:PHE:CE1	2.22	0.74
27:Z1:46:TYR:HE1	27:Z1:48:VAL:HG23	1.52	0.74
27:Z1:208:PHE:CE2	27:Z1:279:ALA:O	2.41	0.74
27:Z1:227:LEU:HD23	27:Z1:256:VAL:HG13	1.60	0.74
27:Z1:312:ASN:HD21	27:Z1:397:ILE:CD1	2.00	0.74
27:Z2:252:GLN:HA	27:Z2:335:MET:HE1	1.67	0.74
1:A2:1221:ILE:H	1:A1:596:ARG:HG2	1.51	0.74
1:A4:777:LEU:HD12	1:A4:822:ILE:HD11	1.66	0.74
6:F1:1265:GLN:HG3	15:O2:252:VAL:H	1.51	0.74
6:F2:142:ALA:C	9:I2:1395:LEU:HD23	1.81	0.74
9:I1:767:ASP:OD1	9:I1:771:ASN:ND2	2.20	0.74
9:I1:912:VAL:N	13:M1:541:LEU:CD2	2.50	0.74
9:I2:1107:SER:CA	13:M3:615:PRO:CG	2.63	0.74
17:Q1:89:TYR:CD2	17:Q1:90:ILE:HG22	2.23	0.74
17:Q1:616:LYS:CG	17:Q1:630:THR:HG21	2.17	0.74
17:Q1:971:ILE:HD11	17:Q1:984:PHE:CE2	2.23	0.74
17:Q2:222:SER:CB	17:Q2:267:VAL:HG21	2.17	0.74
17:Q2:610:LEU:HD13	17:Q2:610:LEU:O	1.87	0.74
17:Q2:928:LYS:CE	19:R2:695:ALA:HA	2.17	0.74
19:R2:510:LEU:CB	19:R2:533:LEU:HD13	2.18	0.74
19:R2:532:ALA:HA	19:R2:535:ARG:NE	2.02	0.74
19:R2:684:ILE:CD1	19:R2:688:LEU:HD21	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:243:PHE:HD2	27:Z1:657:TYR:O	1.71	0.74
25:X2:790:ASN:ND2	27:Z2:680:TRP:HZ2	1.75	0.74
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:CD2	2.69	0.74
26:Y2:1332:LYS:HD2	27:Z1:94:PRO:HG2	1.68	0.74
27:Z2:46:TYR:HE1	27:Z2:48:VAL:HG23	1.52	0.74
27:Z2:358:ARG:NH1	27:Z2:382:GLN:NE2	2.36	0.74
1:A3:1221:ILE:C	1:A4:595:GLU:CG	2.48	0.73
7:G1:251:TYR:HD2	15:O2:244:GLU:HA	1.49	0.73
9:I1:895:ARG:HD2	15:O1:197:ARG:HB2	1.68	0.73
9:I1:977:ASN:CG	15:O1:174:LEU:C	2.46	0.73
9:I1:1308:THR:OG1	15:O1:265:ASN:ND2	2.21	0.73
9:I2:1162:TYR:CB	15:O3:266:GLN:NE2	2.50	0.73
17:Q1:684:GLU:O	17:Q1:688:THR:HB	1.87	0.73
17:Q1:870:VAL:HA	17:Q1:873:GLN:HG2	1.67	0.73
17:Q1:973:LYS:O	17:Q1:976:LYS:HG2	1.88	0.73
17:Q2:463:LYS:HE2	17:Q2:463:LYS:HA	1.69	0.73
17:Q2:528:GLU:HB2	17:Q2:579:ILE:HD12	1.70	0.73
17:Q2:987:LEU:HB2	17:Q2:1005:LEU:HD23	1.69	0.73
17:Q2:1016:PHE:HZ	17:Q2:1068:GLU:HG3	1.50	0.73
24:W1:406:ARG:HB2	24:W1:723:PHE:CB	2.17	0.73
26:Y1:1430:ASP:O	26:Y1:1434:PHE:CE2	2.35	0.73
26:Y2:1294:LYS:HG3	27:Z2:588:TRP:NE1	2.01	0.73
26:Y2:1365:ILE:CG2	26:Y2:1387:LYS:H	1.99	0.73
27:Z1:46:TYR:CD1	27:Z1:54:TYR:CE1	2.72	0.73
27:Z1:326:LEU:CD2	27:Z1:352:GLU:OE2	2.36	0.73
27:Z2:165:VAL:CG1	27:Z2:168:LYS:HE2	2.17	0.73
27:Z2:326:LEU:CD2	27:Z2:352:GLU:OE2	2.36	0.73
27:Z2:331:LEU:HB3	27:Z2:345:ASN:HB3	1.70	0.73
1:A2:1237:LEU:HD21	1:A1:588:SER:HG	0.74	0.73
1:A3:1221:ILE:HG21	1:A4:596:ARG:HG3	1.68	0.73
1:A4:827:ILE:CD1	1:A4:849:SER:HA	2.18	0.73
9:I1:1051:LYS:HB2	14:N1:293:LYS:HB2	1.70	0.73
9:I2:1106:LYS:CD	15:O3:275:LEU:CD1	2.63	0.73
17:Q1:384:ASN:C	17:Q1:507:ILE:HA	2.07	0.73
17:Q2:491:VAL:O	17:Q2:494:VAL:HG22	1.88	0.73
17:Q2:925:ASN:ND2	19:R2:695:ALA:HB3	2.03	0.73
25:X1:665:TRP:CE3	25:X1:669:LEU:HD11	2.23	0.73
25:X2:644:TRP:CZ3	26:Y2:1225:PHE:CB	2.58	0.73
25:X2:807:LEU:CD2	27:Z2:698:ASN:CA	2.54	0.73
27:Z1:10:LEU:CD2	27:Z1:431:TRP:CZ2	2.67	0.73
27:Z1:10:LEU:HD21	27:Z1:431:TRP:HH2	1.10	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:26:ILE:CG2	27:Z1:440:MET:CG	2.66	0.73
27:Z1:252:GLN:CB	27:Z1:335:MET:CE	2.66	0.73
27:Z1:343:VAL:CA	27:Z1:346:ASN:HD21	1.99	0.73
27:Z1:422:ARG:NH2	27:Z1:442:ASN:HD21	1.85	0.73
27:Z2:178:ARG:NH2	27:Z2:280:LYS:HD3	2.01	0.73
27:Z2:343:VAL:CB	27:Z2:346:ASN:HD21	2.01	0.73
27:Z2:598:LEU:HD23	27:Z2:601:ARG:NH2	2.04	0.73
17:Q1:996:VAL:O	17:Q1:997:VAL:HG22	1.87	0.73
17:Q2:103:LYS:O	17:Q2:123:PRO:HD2	1.87	0.73
17:Q2:728:ALA:O	17:Q2:732:GLU:HG3	1.88	0.73
18:R1:514:VAL:HB	18:R1:549:PHE:CZ	2.22	0.73
20:S1:574:THR:CB	21:T1:88:ARG:HH11	2.01	0.73
25:X2:743:GLN:N	25:X2:744:ALA:H	1.86	0.73
26:Y2:1333:ASP:H	27:Z1:109:PHE:HE1	1.34	0.73
27:Z1:401:ASP:C	27:Z2:262:ASN:CB	2.47	0.73
27:Z1:598:LEU:HD23	27:Z1:601:ARG:NH2	2.04	0.73
27:Z2:387:MET:HE1	27:Z2:391:SER:HA	1.69	0.73
27:Z2:437:LEU:HB2	27:Z2:448:GLN:HG2	1.69	0.73
1:A3:1087:GLY:N	4:D3:1096:TYR:CD1	2.55	0.73
6:F1:982:PRO:HG2	9:I1:1459:ASN:HD21	1.53	0.73
6:F2:995:THR:OG1	6:F2:1018:ARG:NH2	2.22	0.73
9:I1:841:PHE:HE1	15:O1:191:ARG:HH21	0.73	0.73
9:I1:911:PRO:HB2	13:M1:541:LEU:CD2	2.16	0.73
9:I1:1311:LEU:HD22	15:O1:266:GLN:HB2	1.61	0.73
9:I2:806:VAL:CG2	15:O3:247:TRP:CG	2.69	0.73
9:I2:1032:THR:O	16:P3:147:LEU:HD22	1.88	0.73
9:I2:1254:VAL:H	14:N3:410:MET:N	1.85	0.73
17:Q1:72:LEU:HD12	17:Q1:110:ILE:CG2	2.17	0.73
17:Q1:103:LYS:O	17:Q1:123:PRO:HD2	1.87	0.73
17:Q1:388:GLU:OE1	17:Q1:559:VAL:HG13	1.88	0.73
17:Q2:89:TYR:CD2	17:Q2:90:ILE:HG22	2.23	0.73
25:X1:715:GLU:O	25:X1:719:GLU:HG3	1.87	0.73
25:X1:797:LEU:CD2	27:Z1:687:LEU:HD22	2.15	0.73
25:X2:665:TRP:O	25:X2:669:LEU:HG	1.89	0.73
26:Y1:1316:GLU:HG2	27:Z1:609:LEU:CD1	2.17	0.73
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:CD2	2.72	0.73
27:Z1:7:LEU:HD21	27:Z1:431:TRP:NE1	2.02	0.73
27:Z1:287:ILE:HD11	27:Z1:348:LEU:CD1	2.14	0.73
27:Z1:424:PRO:CG	27:Z1:439:LEU:CD2	2.66	0.73
27:Z1:538:ARG:CZ	27:Z2:543:GLN:O	2.36	0.73
27:Z2:189:LYS:O	27:Z2:311:GLN:NE2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:256:GLN:H	15:O2:245:GLU:CB	2.01	0.73
9:I1:904:GLU:OE2	13:M1:577:LEU:CG	2.36	0.73
9:I1:964:SER:CB	15:O1:182:THR:HG23	1.67	0.73
9:I1:1051:LYS:HB2	14:N1:293:LYS:HD3	1.70	0.73
17:Q1:817:THR:O	17:Q1:821:LEU:HD13	1.88	0.73
17:Q2:476:GLN:CD	17:Q2:514:PHE:HE1	1.91	0.73
17:Q2:571:VAL:HG23	17:Q2:577:TYR:OH	1.87	0.73
17:Q2:817:THR:O	17:Q2:821:LEU:HD13	1.88	0.73
17:Q2:975:PHE:HD1	17:Q2:980:ILE:HD12	1.53	0.73
18:R1:464:THR:O	18:R1:468:LEU:HD13	1.88	0.73
22:U1:296:LEU:CD2	27:Z1:652:GLN:O	2.36	0.73
25:X1:640:LEU:HB3	26:Y1:1218:PHE:HZ	1.51	0.73
25:X1:818:ILE:HD13	26:Y1:1405:GLN:CB	2.18	0.73
25:X2:665:TRP:CE3	25:X2:669:LEU:HD11	2.23	0.73
25:X2:778:LYS:HG3	25:X2:794:ILE:CG1	2.18	0.73
25:X2:800:HIS:CD2	27:Z2:694:ILE:HD12	2.20	0.73
26:Y2:1294:LYS:HD3	27:Z2:588:TRP:CG	2.23	0.73
26:Y2:1358:HIS:NE2	26:Y2:1362:LEU:CD1	2.25	0.73
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:C	2.31	0.73
27:Z1:205:ILE:CG2	27:Z1:285:PHE:CD2	2.67	0.73
27:Z2:561:THR:O	27:Z2:565:GLN:HG3	1.88	0.73
1:A3:1327:VAL:HB	4:D3:873:GLN:HA	1.71	0.73
17:Q1:268:VAL:HG13	17:Q1:334:TRP:O	1.88	0.73
17:Q2:528:GLU:HA	17:Q2:579:ILE:HG13	1.69	0.73
17:Q2:928:LYS:CE	19:R2:695:ALA:CB	2.62	0.73
22:U1:297:LEU:CA	27:Z1:654:ASP:N	2.51	0.73
27:Z1:541:LYS:HG2	27:Z2:554:HIS:N	2.03	0.73
27:Z2:343:VAL:CG1	27:Z2:346:ASN:HD21	2.01	0.73
1:A2:1226:LEU:CD2	1:A1:647:GLU:CG	2.66	0.73
1:A2:1233:GLN:HE22	1:A1:586:CYS:C	1.92	0.73
1:A4:1051:THR:OG1	4:D4:1096:TYR:CD2	2.27	0.73
7:G2:254:ASN:HD22	15:O4:256:TYR:CA	2.02	0.73
9:I1:844:LYS:NZ	13:M1:539:ALA:CB	2.49	0.73
9:I1:1316:ALA:O	15:O1:269:ILE:CD1	2.32	0.73
9:I2:806:VAL:HG12	15:O3:248:SER:N	1.94	0.73
9:I2:1029:LEU:CD1	13:M3:613:ASP:HB3	2.17	0.73
9:I2:1034:ASP:HA	15:O3:284:LYS:CE	2.14	0.73
9:I2:1095:TYR:CE1	15:O3:268:GLY:CA	2.71	0.73
17:Q1:60:VAL:CG2	17:Q1:63:GLU:HG3	2.17	0.73
17:Q1:426:ILE:HG21	17:Q1:477:PHE:HE2	1.52	0.73
17:Q2:557:LEU:HD11	17:Q2:598:ILE:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:971:ILE:HD11	17:Q2:984:PHE:CE2	2.23	0.73
25:X2:721:LEU:HB3	27:Z2:612:ILE:CD1	2.16	0.73
26:Y1:1294:LYS:CG	27:Z1:588:TRP:HE1	2.00	0.73
27:Z1:381:ILE:HD12	27:Z1:420:ILE:HG21	1.71	0.73
27:Z2:24:ARG:HD3	27:Z2:441:SER:O	1.89	0.73
27:Z2:205:ILE:CG2	27:Z2:285:PHE:CD2	2.67	0.73
27:Z2:239:SER:O	27:Z2:240:THR:C	2.27	0.73
27:Z2:381:ILE:HD12	27:Z2:420:ILE:HG21	1.71	0.73
1:A3:871:ASN:CB	4:D1:515:ASN:CB	2.66	0.73
1:A3:873:PRO:CB	4:D1:532:LEU:HD21	2.18	0.73
9:I2:899:LEU:CD2	13:M3:583:ASP:H	1.89	0.73
9:I2:961:ARG:N	16:P3:155:GLU:HB3	2.01	0.73
10:J1:250:THR:OG1	15:O1:277:GLU:CA	2.37	0.73
17:Q1:196:LEU:HB2	17:Q1:242:LEU:HD11	1.71	0.73
17:Q1:566:ASN:O	17:Q1:569:THR:HG22	1.88	0.73
17:Q1:688:THR:O	17:Q1:692:GLU:HB2	1.88	0.73
17:Q2:196:LEU:HB2	17:Q2:242:LEU:HD11	1.71	0.73
17:Q2:268:VAL:HG13	17:Q2:334:TRP:O	1.88	0.73
17:Q2:332:LYS:HE3	17:Q2:334:TRP:CD2	2.24	0.73
17:Q2:688:THR:O	17:Q2:692:GLU:HB2	1.89	0.73
18:R1:684:ILE:CD1	18:R1:688:LEU:HD21	2.18	0.73
19:R2:664:LEU:HD12	19:R2:705:PHE:CZ	2.23	0.73
25:X2:717:LYS:NZ	27:Z1:49:LEU:HG	2.03	0.73
25:X2:778:LYS:HG2	25:X2:792:GLN:O	1.87	0.73
25:X2:818:ILE:HD13	26:Y2:1405:GLN:CB	2.18	0.73
26:Y1:1401:LEU:O	26:Y1:1405:GLN:CG	2.36	0.73
26:Y2:1449:ILE:HG22	26:Y2:1453:PHE:HE2	1.45	0.73
27:Z1:25:TYR:C	27:Z1:440:MET:CE	2.52	0.73
27:Z1:41:ASN:ND2	27:Z1:60:SER:H	1.86	0.73
27:Z1:178:ARG:NH2	27:Z1:280:LYS:HD3	2.00	0.73
27:Z1:209:TYR:CD1	27:Z1:335:MET:HB2	2.24	0.73
27:Z1:561:THR:O	27:Z1:565:GLN:HG3	1.88	0.73
27:Z1:642:ASN:C	27:Z1:644:PHE:H	1.91	0.73
27:Z2:359:GLU:HG2	27:Z2:361:LYS:HE3	1.70	0.73
27:Z2:636:ASN:O	27:Z2:640:GLN:HG2	1.89	0.73
6:F1:1806:ARG:O	14:N2:412:ASN:CG	2.26	0.73
9:I1:617:ARG:NH1	9:I1:658:ARG:O	2.22	0.73
9:I1:900:ARG:HB3	13:M1:580:LYS:CG	2.19	0.73
9:I2:1175:LYS:CE	15:O3:277:GLU:OE2	2.36	0.73
9:I2:1255:HIS:CE1	14:N3:404:GLU:HA	2.23	0.73
17:Q1:568:LEU:HD21	17:Q1:588:ILE:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:973:LYS:O	17:Q2:976:LYS:HG2	1.88	0.73
17:Q2:1148:ILE:HD13	17:Q2:1155:VAL:HG12	1.71	0.73
18:R1:409:LYS:HZ2	18:R1:448:ILE:HB	1.54	0.73
19:R2:537:PHE:HB2	19:R2:546:LEU:HD23	1.70	0.73
22:U1:329:ARG:HG2	22:U1:344:VAL:HG22	1.70	0.73
26:Y1:1345:LEU:HD21	26:Y1:1348:LYS:NZ	2.03	0.73
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CG	2.50	0.73
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:HD11	1.49	0.73
27:Z1:143:VAL:CG2	27:Z1:211:PHE:CZ	2.72	0.73
27:Z1:252:GLN:HB2	27:Z1:335:MET:CE	2.19	0.73
27:Z1:290:PHE:CD2	27:Z1:291:PRO:O	2.42	0.73
27:Z2:248:ASN:ND2	27:Z2:342:TYR:HE1	1.86	0.73
1:A2:1332:ARG:HB2	4:D1:902:SER:OG	1.85	0.73
6:F1:166:THR:CB	9:I1:1331:LYS:HZ2	1.98	0.73
6:F1:995:THR:OG1	6:F1:1018:ARG:NH2	2.22	0.73
6:F2:140:GLU:HG3	9:I2:1392:VAL:HG23	1.68	0.73
9:I2:1051:LYS:CD	14:N3:289:PHE:CD1	2.60	0.73
9:I2:1098:LEU:HB2	15:O3:269:ILE:N	2.04	0.73
9:I2:1102:GLN:CG	15:O3:274:GLY:H	2.02	0.73
17:Q1:210:LEU:HB3	17:Q1:222:SER:OG	1.88	0.73
17:Q1:463:LYS:HE2	17:Q1:463:LYS:HA	1.69	0.73
17:Q1:688:THR:HG23	17:Q1:692:GLU:CG	2.18	0.73
17:Q2:499:ASP:OD1	17:Q2:534:THR:HG22	1.89	0.73
25:X2:707:LEU:HD21	26:Y2:1306:ILE:HG23	1.71	0.73
26:Y2:1320:LEU:HB2	27:Z1:49:LEU:O	1.83	0.73
27:Z1:248:ASN:ND2	27:Z1:342:TYR:HE1	1.86	0.73
27:Z2:252:GLN:HB2	27:Z2:335:MET:CE	2.19	0.73
6:F1:982:PRO:CB	9:I1:1459:ASN:HD21	2.01	0.72
9:I1:918:SER:CB	15:O1:190:ARG:CA	2.67	0.72
9:I1:1048:GLU:HB3	14:N1:293:LYS:HZ2	0.91	0.72
9:I2:841:PHE:O	15:O3:190:ARG:HD2	1.88	0.72
9:I2:1049:LEU:CA	14:N3:293:LYS:HA	2.15	0.72
9:I2:1304:ASN:ND2	14:N3:414:ALA:HB3	2.04	0.72
17:Q2:69:VAL:HG12	17:Q2:477:PHE:CD1	2.20	0.72
17:Q2:72:LEU:HD12	17:Q2:110:ILE:CG2	2.17	0.72
17:Q2:196:LEU:HB2	17:Q2:242:LEU:CD1	2.19	0.72
17:Q2:865:PRO:O	17:Q2:870:VAL:HG23	1.89	0.72
22:U1:288:LEU:CD2	25:X1:796:ILE:HG13	2.19	0.72
25:X1:795:LYS:NZ	27:Z1:666:GLU:HG2	2.01	0.72
25:X2:665:TRP:CD1	26:Y2:1267:GLU:HB2	2.24	0.72
26:Y2:1211:LEU:C	26:Y2:1215:GLU:HG2	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:343:VAL:CB	27:Z1:346:ASN:HD21	2.01	0.72
27:Z1:343:VAL:CG1	27:Z1:346:ASN:HD21	2.01	0.72
27:Z1:636:ASN:O	27:Z1:640:GLN:HG2	1.89	0.72
27:Z2:227:LEU:HD23	27:Z2:256:VAL:HG13	1.60	0.72
27:Z2:290:PHE:CD2	27:Z2:291:PRO:O	2.42	0.72
27:Z2:424:PRO:CG	27:Z2:439:LEU:CD2	2.66	0.72
27:Z2:582:GLU:N	27:Z2:582:GLU:CA	2.52	0.72
6:F1:166:THR:HG21	9:I1:1330:PHE:CE1	2.24	0.72
6:F2:140:GLU:CD	9:I2:1388:GLU:O	2.28	0.72
7:G1:251:TYR:HE2	15:O2:244:GLU:HB3	1.54	0.72
9:I1:895:ARG:HH11	15:O1:197:ARG:HB2	1.53	0.72
9:I1:1051:LYS:CD	14:N1:289:PHE:CD2	2.49	0.72
9:I1:1182:GLN:HG3	10:J1:245:GLU:OE2	1.89	0.72
9:I2:900:ARG:HG3	15:O3:231:ASP:OD1	1.89	0.72
9:I2:917:TYR:HE1	15:O3:186:PHE:O	1.70	0.72
9:I2:922:ASP:OD1	15:O3:186:PHE:C	2.26	0.72
17:Q1:499:ASP:OD1	17:Q1:534:THR:HG22	1.89	0.72
17:Q1:532:LYS:HD3	17:Q1:581:PRO:CG	2.14	0.72
17:Q1:865:PRO:O	17:Q1:870:VAL:HG23	1.89	0.72
17:Q1:922:LEU:HD21	18:R1:688:LEU:CG	2.19	0.72
17:Q2:631:THR:HG23	17:Q2:634:VAL:HG12	1.71	0.72
18:R1:435:PHE:HB3	18:R1:448:ILE:HG12	1.70	0.72
25:X2:715:GLU:O	25:X2:719:GLU:HG3	1.87	0.72
26:Y2:1212:ARG:HE	26:Y2:1213:LEU:HD23	1.48	0.72
26:Y2:1333:ASP:C	27:Z1:109:PHE:HA	1.83	0.72
26:Y2:1402:LEU:HA	26:Y2:1405:GLN:CG	2.19	0.72
26:Y2:1453:PHE:HD2	27:Z2:328:PHE:CZ	2.07	0.72
27:Z1:45:TRP:CE2	27:Z1:95:TRP:CE3	2.74	0.72
27:Z2:45:TRP:CE2	27:Z2:95:TRP:CE3	2.74	0.72
27:Z2:46:TYR:CD1	27:Z2:54:TYR:CE1	2.72	0.72
1:A2:1332:ARG:HG3	4:D1:905:SER:CB	2.19	0.72
1:A3:1204:TRP:CE3	1:A4:647:GLU:C	2.44	0.72
1:A4:127:HIS:N	4:D3:1010:ALA:CB	2.48	0.72
6:F1:982:PRO:CG	9:I1:1459:ASN:HD21	2.02	0.72
7:G2:249:ASP:HB2	15:O4:254:ARG:CD	2.18	0.72
9:I1:183:LYS:O	9:I1:188:ARG:NH2	2.22	0.72
9:I2:890:TYR:CD2	13:M3:590:LYS:HD2	2.24	0.72
9:I2:1302:ARG:HD3	15:O3:263:GLN:CG	2.19	0.72
17:Q2:210:LEU:HB3	17:Q2:222:SER:OG	1.88	0.72
17:Q2:811:LEU:HD13	17:Q2:814:LEU:HD21	1.72	0.72
18:R1:436:LEU:O	18:R1:452:LEU:HA	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:511:ILE:HG13	18:R1:549:PHE:HD1	1.54	0.72
19:R2:677:LEU:HB3	19:R2:684:ILE:HA	1.71	0.72
25:X2:725:VAL:HG21	27:Z2:612:ILE:CG2	2.19	0.72
26:Y1:1339:PHE:CG	27:Z1:630:TRP:CE3	2.73	0.72
26:Y1:1402:LEU:HA	26:Y1:1405:GLN:CG	2.19	0.72
27:Z1:281:VAL:O	27:Z1:281:VAL:HG23	1.89	0.72
27:Z1:544:THR:CB	27:Z2:555:GLU:HA	2.19	0.72
1:A2:1221:ILE:H	1:A1:596:ARG:CA	2.02	0.72
9:I1:754:ARG:NH2	13:M1:552:TYR:CD2	2.57	0.72
9:I1:1034:ASP:OD2	16:P1:147:LEU:HB3	1.89	0.72
9:I2:963:LEU:CB	16:P3:148:ALA:HA	2.10	0.72
17:Q1:469:THR:OG1	17:Q1:472:MET:HB2	1.89	0.72
17:Q2:543:GLY:HA3	17:Q2:591:PHE:HZ	1.52	0.72
17:Q2:629:LEU:HD23	17:Q2:632:LYS:N	2.04	0.72
17:Q2:743:LEU:O	17:Q2:743:LEU:HD23	1.89	0.72
17:Q2:963:LYS:HG2	17:Q2:968:GLU:OE1	1.90	0.72
18:R1:547:GLU:O	18:R1:550:MET:HG3	1.89	0.72
18:R1:684:ILE:HD12	18:R1:688:LEU:CD1	2.17	0.72
19:R2:547:GLU:O	19:R2:550:MET:HG3	1.89	0.72
27:Z1:123:PRO:HD3	27:Z1:124:LYS:HG2	1.70	0.72
27:Z1:239:SER:O	27:Z1:240:THR:C	2.27	0.72
27:Z2:158:ASN:HB2	27:Z2:161:GLU:CD	2.10	0.72
1:A2:873:PRO:HB3	4:D3:535:ALA:HA	1.70	0.72
9:I1:841:PHE:CD1	15:O1:191:ARG:CZ	2.71	0.72
9:I1:918:SER:HA	15:O1:194:GLU:H	1.53	0.72
9:I2:965:ALA:CB	15:O3:182:THR:HG23	2.17	0.72
9:I2:1051:LYS:CD	14:N3:289:PHE:HB2	2.19	0.72
17:Q1:228:ILE:HG13	17:Q1:248:LEU:HB2	1.71	0.72
17:Q1:331:LEU:CD1	17:Q1:351:ILE:HG21	2.19	0.72
17:Q1:414:THR:HG22	17:Q1:429:VAL:O	1.90	0.72
17:Q1:611:ASN:HA	17:Q1:614:TRP:HE3	1.52	0.72
17:Q1:824:ASN:HA	17:Q1:827:THR:CB	2.17	0.72
17:Q1:888:ILE:O	17:Q1:888:ILE:HD13	1.88	0.72
17:Q1:929:LEU:CD2	18:R1:691:THR:HB	2.16	0.72
17:Q2:888:ILE:O	17:Q2:888:ILE:HD13	1.88	0.72
18:R1:473:SER:HB2	18:R1:475:ILE:HG12	1.71	0.72
18:R1:510:LEU:CB	18:R1:533:LEU:HD13	2.18	0.72
18:R1:537:PHE:HB2	18:R1:546:LEU:HD23	1.70	0.72
24:W1:527:SER:N	24:W1:740:PHE:HA	2.05	0.72
25:X1:795:LYS:HZ1	27:Z1:666:GLU:CB	2.03	0.72
26:Y1:1410:GLN:HB3	27:Z1:711:LYS:CE	2.12	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:383:GLN:CG	27:Z2:417:ILE:HG13	2.20	0.72
27:Z2:679:GLU:N	27:Z2:680:TRP:N	2.36	0.72
1:A2:1225:PRO:HB3	1:A1:640:LEU:CD2	1.88	0.72
6:F1:135:VAL:C	9:I1:1392:VAL:HG21	2.09	0.72
6:F1:154:SER:CB	9:I1:1344:GLN:HG3	2.18	0.72
6:F2:1267:ARG:HH11	15:O4:262:ASP:CB	1.66	0.72
9:I1:925:LEU:HD13	15:O1:184:ARG:HB3	0.77	0.72
9:I1:961:ARG:HH12	15:O1:190:ARG:N	1.72	0.72
9:I1:976:ARG:CZ	15:O1:173:ILE:N	2.52	0.72
9:I2:503:ARG:NH2	9:I2:504:ALA:O	2.22	0.72
9:I2:617:ARG:NH1	9:I2:658:ARG:O	2.22	0.72
9:I2:896:PRO:CB	13:M3:588:MET:HE3	2.19	0.72
9:I2:916:ALA:HB2	15:O3:192:HIS:HB3	1.71	0.72
9:I2:1051:LYS:CD	14:N3:289:PHE:CB	2.67	0.72
9:I2:1099:ARG:HD2	15:O3:271:GLU:CD	2.09	0.72
9:I2:1256:TYR:O	15:O3:256:TYR:CE1	2.39	0.72
17:Q1:196:LEU:HB2	17:Q1:242:LEU:CD1	2.19	0.72
17:Q1:963:LYS:HG2	17:Q1:968:GLU:OE1	1.90	0.72
17:Q2:616:LYS:CG	17:Q2:630:THR:HG21	2.17	0.72
26:Y1:1453:PHE:HD2	27:Z1:328:PHE:CZ	2.06	0.72
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:HD1	1.08	0.72
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:CA	2.17	0.72
26:Y2:1455:ASN:HB3	26:Y2:1456:LEU:C	2.10	0.72
27:Z2:55:HIS:CE1	27:Z2:98:SER:HG	2.08	0.72
1:A3:1087:GLY:HA3	4:D3:1095:ARG:CG	2.19	0.72
7:G1:255:LEU:CD2	15:O2:244:GLU:HB2	2.19	0.72
9:I1:917:TYR:HE1	13:M1:534:GLN:OE1	1.65	0.72
9:I1:960:SER:O	15:O1:182:THR:CG2	2.37	0.72
9:I1:1246:ILE:HG13	15:O1:255:GLY:CA	2.10	0.72
9:I2:1026:TYR:OH	13:M3:608:LYS:CA	2.38	0.72
9:I2:1049:LEU:HG	14:N3:292:ARG:O	1.88	0.72
17:Q2:455:ILE:HD13	17:Q2:469:THR:HG22	1.71	0.72
17:Q2:906:ILE:HA	17:Q2:909:ASP:OD2	1.90	0.72
17:Q2:943:THR:O	17:Q2:947:ILE:HG22	1.89	0.72
18:R1:250:LEU:HD13	20:S1:317:GLY:HA3	1.70	0.72
19:R2:586:GLN:NE2	19:R2:630:LEU:HD13	2.04	0.72
25:X1:707:LEU:HD21	26:Y1:1306:ILE:HG23	1.72	0.72
25:X2:692:LYS:HG3	27:Z2:431:TRP:CZ2	2.17	0.72
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:HB2	1.62	0.72
27:Z2:41:ASN:HD21	27:Z2:60:SER:CA	1.77	0.72
27:Z2:281:VAL:HG23	27:Z2:281:VAL:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:290:PHE:CE2	27:Z2:291:PRO:O	2.42	0.72
1:A2:1226:LEU:CD1	1:A1:646:ILE:HB	2.20	0.72
1:A2:1277:TRP:HB3	1:A1:642:ARG:NH1	2.05	0.72
1:A3:1269:ALA:O	1:A4:730:THR:N	2.22	0.72
6:F1:1806:ARG:CA	14:N2:412:ASN:CG	2.44	0.72
7:G1:247:ASP:N	13:M2:594:LYS:CG	2.53	0.72
9:I2:977:ASN:CA	15:O3:174:LEU:HD22	2.18	0.72
10:J1:249:ASP:OD2	15:O1:275:LEU:HG	1.89	0.72
17:Q2:803:GLN:HB3	17:Q2:807:PHE:CE2	2.25	0.72
17:Q2:936:LYS:HD3	17:Q2:940:ASP:HB2	1.71	0.72
17:Q2:946:LYS:HD2	17:Q2:947:ILE:H	1.55	0.72
18:R1:677:LEU:HB3	18:R1:684:ILE:HA	1.71	0.72
19:R2:715:LEU:O	19:R2:715:LEU:HD23	1.90	0.72
23:V1:241:GLU:HG2	23:V1:328:LEU:HD13	1.71	0.72
24:W1:523:ASP:CB	24:W1:738:ARG:N	2.50	0.72
25:X1:778:LYS:O	25:X1:778:LYS:HE3	1.90	0.72
25:X2:662:ILE:HD13	27:Z2:549:ILE:HG23	1.68	0.72
25:X2:688:HIS:ND1	27:Z2:447:PHE:CE2	2.50	0.72
25:X2:690:GLN:CD	27:Z2:577:LEU:HB3	2.02	0.72
25:X2:815:GLU:HG2	26:Y2:1402:LEU:HG	1.63	0.72
26:Y1:1345:LEU:O	26:Y1:1348:LYS:HG2	1.90	0.72
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CE2	2.67	0.72
27:Z1:69:PHE:HA	27:Z1:84:ASN:CG	2.01	0.72
27:Z2:227:LEU:CD2	27:Z2:256:VAL:HG13	2.12	0.72
27:Z2:397:ILE:HG22	27:Z2:397:ILE:O	1.89	0.72
1:A2:873:PRO:HB3	4:D3:535:ALA:CA	2.20	0.72
9:I1:963:LEU:HD12	15:O1:182:THR:CG2	2.12	0.72
9:I2:1048:GLU:OE1	14:N3:293:LYS:CD	2.37	0.72
17:Q1:455:ILE:HD13	17:Q1:469:THR:HG22	1.71	0.72
17:Q2:566:ASN:O	17:Q2:569:THR:HG22	1.89	0.72
22:U1:296:LEU:CG	27:Z1:657:TYR:H	2.02	0.72
23:V1:152:LEU:HD21	23:V1:182:LEU:HB3	1.70	0.72
26:Y2:1401:LEU:O	26:Y2:1405:GLN:CG	2.36	0.72
27:Z2:289:PRO:HD3	27:Z2:350:LEU:HB3	1.71	0.72
1:A2:1220:PRO:HA	1:A1:596:ARG:CA	2.18	0.72
4:D1:1003:GLU:HG3	1:A1:173:ASN:N	2.05	0.72
9:I1:503:ARG:NH2	9:I1:504:ALA:O	2.22	0.72
9:I2:1050:SER:OG	14:N3:292:ARG:CD	2.36	0.72
17:Q1:799:GLU:O	17:Q1:802:ILE:HG22	1.90	0.72
17:Q2:631:THR:O	17:Q2:635:VAL:HG23	1.89	0.72
17:Q2:799:GLU:O	17:Q2:802:ILE:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:538:LEU:CB	19:R2:546:LEU:HD11	2.19	0.72
22:U2:329:ARG:HG2	22:U2:344:VAL:HG22	1.70	0.72
25:X1:742:GLN:HG3	25:X1:743:GLN:CB	2.06	0.72
25:X1:795:LYS:NZ	27:Z1:666:GLU:CB	2.52	0.72
25:X2:690:GLN:CB	27:Z2:7:LEU:HD22	2.18	0.72
27:Z1:35:ILE:HD12	27:Z1:429:ILE:CD1	2.19	0.72
27:Z2:143:VAL:CG2	27:Z2:211:PHE:CZ	2.72	0.72
27:Z2:393:LEU:HD21	27:Z2:405:LEU:CD2	1.93	0.72
27:Z2:417:ILE:CG2	27:Z2:448:GLN:OE1	2.37	0.72
27:Z2:678:ASN:N	27:Z2:678:ASN:C	2.44	0.72
1:A1:827:ILE:CD1	1:A1:849:SER:HA	2.19	0.72
4:D1:969:HIS:CG	1:A1:711:VAL:CG2	2.73	0.71
6:F1:272:GLU:CA	9:I1:1209:THR:H	2.04	0.71
9:I1:967:SER:HB3	15:O1:178:ASP:CB	2.20	0.71
9:I2:892:HIS:CA	13:M3:588:MET:HA	2.18	0.71
17:Q1:105:VAL:HB	17:Q1:121:THR:OG1	1.90	0.71
17:Q1:332:LYS:HE3	17:Q1:334:TRP:CD2	2.24	0.71
17:Q1:549:MET:CG	17:Q1:549:MET:CE	2.68	0.71
17:Q2:922:LEU:CD2	19:R2:688:LEU:CD2	2.68	0.71
18:R1:586:GLN:HE21	18:R1:630:LEU:CD1	2.03	0.71
19:R2:511:ILE:HG13	19:R2:549:PHE:HD1	1.54	0.71
19:R2:581:LEU:HA	19:R2:584:ILE:CD1	2.20	0.71
19:R2:684:ILE:HD11	19:R2:688:LEU:HD21	1.71	0.71
22:U1:248:LYS:HG2	25:X1:805:ARG:HB3	1.71	0.71
22:U1:296:LEU:CD1	27:Z1:653:GLN:C	2.58	0.71
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:CE	2.61	0.71
26:Y2:1365:ILE:HB	26:Y2:1387:LYS:HB2	1.71	0.71
27:Z1:116:ILE:CD1	27:Z1:124:LYS:HB2	2.20	0.71
27:Z1:582:GLU:N	27:Z1:582:GLU:CA	2.52	0.71
27:Z2:679:GLU:N	27:Z2:679:GLU:CB	2.53	0.71
9:I1:903:GLY:HA2	13:M1:575:TYR:CB	2.20	0.71
9:I2:183:LYS:O	9:I2:188:ARG:NH2	2.22	0.71
9:I2:1049:LEU:CD2	14:N3:295:GLU:N	2.49	0.71
17:Q1:743:LEU:O	17:Q1:743:LEU:HD23	1.89	0.71
17:Q1:855:LYS:C	17:Q1:856:LYS:HD2	2.10	0.71
17:Q1:946:LYS:HD2	17:Q1:947:ILE:H	1.54	0.71
17:Q2:166:ILE:HB	17:Q2:173:ILE:HG22	1.70	0.71
17:Q2:331:LEU:CD1	17:Q2:351:ILE:HG21	2.19	0.71
17:Q2:469:THR:OG1	17:Q2:472:MET:HB2	1.89	0.71
17:Q2:681:ILE:HD13	17:Q2:681:ILE:O	1.90	0.71
17:Q2:700:GLU:HB3	17:Q2:758:ILE:CG1	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:855:LYS:C	17:Q2:856:LYS:HD2	2.10	0.71
18:R1:684:ILE:HD11	18:R1:688:LEU:HD21	1.71	0.71
19:R2:701:ILE:HG22	19:R2:705:PHE:HE1	1.55	0.71
22:U1:295:GLU:CB	27:Z1:657:TYR:HD2	1.65	0.71
24:W1:527:SER:O	24:W1:742:GLU:O	2.01	0.71
25:X1:665:TRP:NE1	26:Y1:1267:GLU:HB3	1.79	0.71
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:HZ3	0.91	0.71
26:Y2:1334:LEU:CB	27:Z1:108:ALA:H	1.92	0.71
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CB	2.36	0.71
27:Z1:397:ILE:HG22	27:Z1:397:ILE:O	1.89	0.71
27:Z2:209:TYR:CD1	27:Z2:335:MET:HB2	2.24	0.71
27:Z2:216:LEU:HG	27:Z2:272:ILE:CG1	2.19	0.71
27:Z2:307:ILE:O	27:Z2:307:ILE:CG2	2.36	0.71
6:F1:133:GLN:O	9:I1:1389:GLN:CG	2.34	0.71
9:I1:911:PRO:CG	15:O1:202:LEU:HB2	2.12	0.71
9:I1:918:SER:CA	15:O1:193:ALA:CB	2.68	0.71
9:I1:1429:TYR:OH	10:J1:267:GLY:HA2	1.90	0.71
17:Q1:214:CYS:HB3	17:Q1:281:ARG:CD	2.18	0.71
17:Q1:631:THR:O	17:Q1:635:VAL:HG23	1.89	0.71
17:Q1:906:ILE:HA	17:Q1:909:ASP:OD2	1.90	0.71
17:Q1:972:CYS:HB3	17:Q1:975:PHE:CD2	2.25	0.71
17:Q2:684:GLU:HA	17:Q2:688:THR:OG1	1.90	0.71
18:R1:531:ILE:HG23	18:R1:580:PHE:CE1	2.26	0.71
25:X1:797:LEU:HD21	27:Z1:687:LEU:HD21	0.77	0.71
25:X2:777:ASN:HA	25:X2:793:LEU:HB3	1.72	0.71
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:N	2.55	0.71
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:HD22	2.25	0.71
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:HD12	1.72	0.71
27:Z1:26:ILE:HG22	27:Z1:440:MET:SD	2.04	0.71
27:Z1:158:ASN:HB2	27:Z1:161:GLU:CD	2.10	0.71
27:Z1:230:SER:CB	27:Z1:253:LEU:CD2	2.65	0.71
27:Z1:290:PHE:CE2	27:Z1:291:PRO:O	2.42	0.71
27:Z1:541:LYS:NZ	27:Z2:553:ILE:CG1	2.52	0.71
9:I2:807:LEU:HD11	15:O3:248:SER:HB2	1.71	0.71
9:I2:1048:GLU:OE1	14:N3:293:LYS:HE2	1.88	0.71
9:I2:1103:LEU:HB2	13:M3:611:LYS:CG	2.19	0.71
10:J1:248:VAL:HG13	15:O1:273:ASP:N	2.04	0.71
17:Q2:276:LEU:HD13	17:Q2:296:GLN:HE21	1.55	0.71
17:Q2:611:ASN:HA	17:Q2:614:TRP:HE3	1.52	0.71
17:Q2:688:THR:HA	17:Q2:692:GLU:OE1	1.90	0.71
17:Q2:827:THR:HA	17:Q2:830:SER:CB	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:514:VAL:HB	18:R1:549:PHE:CE1	2.25	0.71
24:W1:403:ASP:HA	24:W1:723:PHE:O	1.88	0.71
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:HD21	1.72	0.71
26:Y2:1345:LEU:O	26:Y2:1348:LYS:HG2	1.90	0.71
27:Z1:352:GLU:CD	27:Z1:410:PHE:CZ	2.50	0.71
27:Z2:34:ARG:HD2	27:Z2:95:TRP:CH2	2.26	0.71
27:Z2:252:GLN:CB	27:Z2:335:MET:HE3	2.19	0.71
27:Z2:252:GLN:CB	27:Z2:335:MET:SD	2.78	0.71
27:Z2:352:GLU:CD	27:Z2:410:PHE:CZ	2.49	0.71
27:Z2:389:TRP:HZ3	27:Z2:393:LEU:HD12	1.50	0.71
27:Z2:580:LYS:C	27:Z2:581:PHE:CA	2.57	0.71
1:A1:827:ILE:HG23	1:A1:850:PRO:HD3	1.73	0.71
1:A2:1233:GLN:NE2	1:A1:586:CYS:C	2.20	0.71
1:A2:1273:ALA:N	1:A1:646:ILE:HD11	2.05	0.71
1:A2:1277:TRP:CD1	1:A1:642:ARG:NH2	2.58	0.71
1:A3:1200:ARG:CB	1:A4:591:ASP:HB3	2.20	0.71
1:A3:1272:GLY:HA2	1:A4:727:ASN:CA	2.19	0.71
9:I1:908:ARG:CD	15:O1:209:LEU:CD1	2.68	0.71
9:I1:1051:LYS:HZ3	14:N1:290:VAL:N	1.87	0.71
9:I2:980:ILE:HD11	15:O3:174:LEU:HD13	1.71	0.71
17:Q1:827:THR:HG23	17:Q1:830:SER:HB2	1.72	0.71
17:Q1:946:LYS:HD2	17:Q1:947:ILE:N	2.05	0.71
17:Q2:549:MET:CG	17:Q2:549:MET:CE	2.68	0.71
17:Q2:564:PHE:CE2	17:Q2:568:LEU:HD11	2.26	0.71
17:Q2:647:LYS:HA	17:Q2:647:LYS:CE	2.20	0.71
18:R1:581:LEU:HA	18:R1:584:ILE:CD1	2.20	0.71
25:X2:688:HIS:N	27:Z2:8:SER:OG	2.24	0.71
25:X2:778:LYS:O	27:Z2:680:TRP:CZ3	2.44	0.71
27:Z1:627:GLU:O	27:Z1:631:PHE:CD2	2.43	0.71
1:A2:1201:ARG:HA	1:A1:648:TYR:CZ	2.12	0.71
1:A2:1229:VAL:HG23	1:A1:643:ALA:CB	2.19	0.71
1:A2:1277:TRP:HB2	1:A1:642:ARG:HH22	1.52	0.71
1:A2:1328:ARG:NH2	4:D1:898:ASP:OD2	2.21	0.71
6:F1:139:GLN:HB3	9:I1:1396:ILE:CG1	2.21	0.71
6:F1:1265:GLN:OE1	15:O2:248:SER:CB	2.36	0.71
9:I2:1099:ARG:HH12	13:M3:609:GLY:C	1.94	0.71
9:I2:1103:LEU:N	15:O3:272:SER:HA	2.05	0.71
9:I2:1109:LEU:CB	15:O3:284:LYS:HZ2	1.89	0.71
17:Q1:310:VAL:HG21	17:Q1:368:PHE:CE2	2.26	0.71
17:Q1:564:PHE:CE2	17:Q1:568:LEU:HD11	2.26	0.71
17:Q1:629:LEU:HD23	17:Q1:632:LYS:N	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:688:THR:HG22	17:Q1:692:GLU:HB2	1.72	0.71
17:Q2:73:GLN:CG	17:Q2:113:THR:HA	2.21	0.71
17:Q2:105:VAL:HB	17:Q2:121:THR:OG1	1.90	0.71
17:Q2:171:LYS:HZ1	17:Q2:173:ILE:HB	1.56	0.71
17:Q2:568:LEU:HD21	17:Q2:588:ILE:HD11	1.70	0.71
17:Q2:812:SER:O	17:Q2:815:VAL:HG22	1.91	0.71
17:Q2:827:THR:HG23	17:Q2:830:SER:HB2	1.72	0.71
25:X2:644:TRP:CZ3	26:Y2:1225:PHE:HB2	2.25	0.71
25:X2:689:SER:H	27:Z2:8:SER:HG	1.37	0.71
26:Y1:1454:LYS:NZ	27:Z1:288:ASN:HB2	2.05	0.71
27:Z1:34:ARG:HD2	27:Z1:95:TRP:HH2	1.55	0.71
27:Z1:125:SER:HB2	27:Z1:147:GLU:OE1	1.91	0.71
27:Z1:227:LEU:CD2	27:Z1:256:VAL:HG13	2.12	0.71
27:Z1:252:GLN:NE2	27:Z1:335:MET:CA	2.53	0.71
27:Z1:326:LEU:CD2	27:Z1:389:TRP:HZ2	2.03	0.71
27:Z2:35:ILE:CB	27:Z2:46:TYR:CZ	2.62	0.71
27:Z2:135:LYS:HE2	27:Z2:218:LEU:HD21	1.73	0.71
27:Z2:417:ILE:HG21	27:Z2:448:GLN:NE2	2.05	0.71
1:A2:1221:ILE:N	1:A1:596:ARG:O	2.23	0.71
1:A2:1224:PRO:C	1:A1:648:TYR:HE2	1.94	0.71
1:A3:871:ASN:CG	4:D1:515:ASN:ND2	2.43	0.71
1:A3:1088:ASN:C	4:D3:1101:HIS:CE1	2.59	0.71
1:A4:715:GLU:CD	4:D3:970:MET:HA	2.09	0.71
9:I1:916:ALA:C	13:M1:534:GLN:HE21	1.93	0.71
9:I1:918:SER:CB	15:O1:190:ARG:HA	2.21	0.71
9:I2:887:GLN:O	13:M3:590:LYS:HG2	1.91	0.71
9:I2:961:ARG:CG	16:P3:155:GLU:O	2.38	0.71
9:I2:1048:GLU:OE2	14:N3:293:LYS:CE	2.37	0.71
9:I2:1099:ARG:N	15:O3:268:GLY:O	2.23	0.71
9:I2:1108:PRO:HB2	15:O3:281:ALA:CB	1.77	0.71
17:Q1:288:ASN:O	17:Q1:333:ILE:HG22	1.91	0.71
17:Q2:228:ILE:HG13	17:Q2:248:LEU:HB2	1.71	0.71
18:R1:459:LYS:O	18:R1:462:ILE:HG22	1.90	0.71
19:R2:514:VAL:HB	19:R2:549:PHE:CE1	2.25	0.71
19:R2:684:ILE:HD12	19:R2:688:LEU:CD1	2.17	0.71
22:U1:241:ARG:CB	27:Z1:656:SER:CB	2.62	0.71
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:HD21	1.73	0.71
26:Y2:1443:MET:HE1	27:Z2:332:GLU:OE1	0.90	0.71
27:Z1:94:PRO:CB	27:Z1:109:PHE:CZ	2.69	0.71
27:Z1:216:LEU:HG	27:Z1:272:ILE:CG1	2.19	0.71
27:Z1:280:LYS:HG3	27:Z1:337:TRP:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:580:LYS:C	27:Z1:581:PHE:CA	2.57	0.71
27:Z1:709:THR:O	27:Z1:712:THR:OG1	2.09	0.71
27:Z2:46:TYR:CE1	27:Z2:48:VAL:HG23	2.25	0.71
1:A2:1328:ARG:HH22	4:D1:898:ASP:CB	2.02	0.71
6:F2:140:GLU:CG	9:I2:1393:GLY:H	1.98	0.71
9:I2:911:PRO:HG3	15:O3:197:ARG:HG2	1.73	0.71
17:Q1:647:LYS:HA	17:Q1:647:LYS:CE	2.20	0.71
17:Q1:703:THR:HA	17:Q1:707:PRO:HG2	1.72	0.71
17:Q1:943:THR:O	17:Q1:947:ILE:HG22	1.89	0.71
17:Q2:414:THR:HG22	17:Q2:429:VAL:O	1.89	0.71
17:Q2:1008:MET:CE	17:Q2:1008:MET:CG	2.69	0.71
18:R1:465:ILE:HG13	18:R1:470:LEU:HB2	1.73	0.71
18:R1:467:PHE:HD2	18:R1:468:LEU:HD12	1.56	0.71
18:R1:538:LEU:CB	18:R1:546:LEU:HD11	2.20	0.71
19:R2:532:ALA:HA	19:R2:535:ARG:HE	1.56	0.71
19:R2:621:GLN:CA	19:R2:670:LYS:HE2	2.21	0.71
20:S1:170:GLY:HA3	21:T1:12:ILE:HD12	1.73	0.71
23:V2:241:GLU:HG2	23:V2:328:LEU:HD13	1.71	0.71
25:X1:665:TRP:O	25:X1:669:LEU:HG	1.89	0.71
25:X1:717:LYS:HE3	26:Y1:1320:LEU:CD1	2.13	0.71
25:X1:721:LEU:HD21	26:Y1:1319:PHE:HD2	1.55	0.71
26:Y1:1370:THR:HG22	27:Z1:662:LEU:CD2	2.14	0.71
27:Z1:531:ILE:CD1	27:Z2:541:LYS:CD	2.59	0.71
27:Z2:34:ARG:HD2	27:Z2:95:TRP:HH2	1.55	0.71
1:A2:1091:VAL:CB	4:D1:1104:GLU:HG2	2.20	0.71
1:A2:1272:GLY:O	1:A1:642:ARG:HG3	1.91	0.71
9:I1:1034:ASP:CG	16:P1:144:ASP:O	2.29	0.71
9:I1:1051:LYS:H	14:N1:293:LYS:HD2	1.49	0.71
9:I1:1606:GLU:OE2	9:I2:1669:ARG:CZ	2.37	0.71
9:I2:1031:ALA:HB2	13:M3:621:ARG:NH2	2.05	0.71
9:I2:1254:VAL:CA	14:N3:411:GLN:H	2.03	0.71
17:Q1:385:THR:N	17:Q1:507:ILE:HA	2.05	0.71
18:R1:435:PHE:CB	18:R1:448:ILE:CG1	2.67	0.71
18:R1:715:LEU:O	18:R1:715:LEU:HD23	1.90	0.71
24:W1:523:ASP:CB	24:W1:736:ASN:O	2.27	0.71
25:X2:790:ASN:ND2	27:Z2:680:TRP:CH2	2.56	0.71
26:Y1:1429:LYS:HD3	26:Y1:1434:PHE:CZ	2.23	0.71
26:Y2:1218:PHE:HE1	26:Y2:1222:GLU:CD	1.88	0.71
26:Y2:1368:LEU:HB3	26:Y2:1382:VAL:C	2.10	0.71
27:Z1:294:LEU:HD12	27:Z1:325:ILE:HD11	1.73	0.71
27:Z1:630:TRP:CE2	27:Z1:634:ILE:HD11	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:31:ASN:C	27:Z2:368:GLU:OE2	2.28	0.71
27:Z2:94:PRO:CB	27:Z2:109:PHE:CZ	2.69	0.71
9:I1:924:ILE:CG1	15:O1:187:ASN:ND2	2.54	0.71
9:I2:1026:TYR:CA	13:M3:611:LYS:HA	2.15	0.71
9:I2:1168:ALA:HB3	15:O3:269:ILE:CB	2.21	0.71
9:I2:1182:GLN:HG3	10:J2:245:GLU:OE2	1.89	0.71
9:I2:1308:THR:HB	14:N3:413:VAL:CG1	2.16	0.71
17:Q1:631:THR:HG23	17:Q1:634:VAL:HG12	1.71	0.71
17:Q1:681:ILE:HD13	17:Q1:681:ILE:O	1.90	0.71
17:Q1:727:PHE:O	17:Q1:730:GLU:HG2	1.91	0.71
17:Q1:803:GLN:HB3	17:Q1:807:PHE:CE2	2.25	0.71
17:Q1:847:LEU:HD13	17:Q1:879:ALA:HB1	1.72	0.71
17:Q1:975:PHE:HD1	17:Q1:980:ILE:HD12	1.54	0.71
17:Q2:310:VAL:HG21	17:Q2:368:PHE:CE2	2.26	0.71
17:Q2:824:ASN:HA	17:Q2:827:THR:CB	2.17	0.71
18:R1:621:GLN:CA	18:R1:670:LYS:HE2	2.21	0.71
26:Y2:1221:VAL:HG22	27:Z2:536:LEU:HD21	1.72	0.71
27:Z1:34:ARG:HD2	27:Z1:95:TRP:CH2	2.26	0.71
27:Z1:359:GLU:CD	27:Z1:361:LYS:CE	2.56	0.71
27:Z1:387:MET:HE1	27:Z1:391:SER:CB	2.15	0.71
27:Z2:280:LYS:HG3	27:Z2:337:TRP:O	1.91	0.71
27:Z2:630:TRP:CE2	27:Z2:634:ILE:HD11	2.25	0.71
27:Z2:709:THR:O	27:Z2:712:THR:OG1	2.09	0.71
1:A2:1277:TRP:HB3	1:A1:642:ARG:CZ	2.21	0.70
6:F1:159:ALA:O	9:I1:1335:LYS:HE3	1.90	0.70
9:I1:921:GLU:HB2	15:O1:187:ASN:CA	2.16	0.70
9:I1:1304:ASN:OD1	15:O1:262:ASP:OD1	2.09	0.70
9:I2:1030:ARG:CG	13:M3:617:THR:HB	2.20	0.70
9:I2:1050:SER:CB	15:O3:288:GLU:OE2	2.38	0.70
9:I2:1429:TYR:OH	10:J2:267:GLY:HA2	1.90	0.70
17:Q1:73:GLN:CG	17:Q1:113:THR:HA	2.21	0.70
17:Q1:444:GLU:HB3	17:Q1:504:PHE:O	1.91	0.70
17:Q1:684:GLU:HA	17:Q1:688:THR:OG1	1.90	0.70
17:Q1:704:SER:H	17:Q1:707:PRO:HG2	1.56	0.70
17:Q1:811:LEU:HD13	17:Q1:814:LEU:HD21	1.72	0.70
17:Q1:1148:ILE:HD13	17:Q1:1155:VAL:HG12	1.71	0.70
17:Q2:703:THR:HA	17:Q2:707:PRO:HG2	1.72	0.70
17:Q2:786:LEU:HB3	17:Q2:811:LEU:HG	1.73	0.70
17:Q2:852:ILE:HD11	17:Q2:913:LYS:HZ3	0.89	0.70
18:R1:506:ILE:HG13	18:R1:507:ASP:N	2.05	0.70
22:U1:296:LEU:C	27:Z1:653:GLN:O	2.28	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:804:LEU:HD21	27:Z1:694:ILE:HG12	1.73	0.70
25:X2:702:ARG:CD	27:Z2:49:LEU:HD21	2.21	0.70
26:Y1:1221:VAL:HG22	27:Z1:536:LEU:HD21	1.72	0.70
26:Y1:1454:LYS:HE3	27:Z1:349:VAL:CG2	2.15	0.70
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CD	2.38	0.70
27:Z1:31:ASN:C	27:Z1:368:GLU:OE2	2.28	0.70
27:Z1:679:GLU:OE2	27:Z2:654:ASP:OD2	1.92	0.70
27:Z2:230:SER:CB	27:Z2:253:LEU:CD2	2.65	0.70
27:Z2:326:LEU:CD2	27:Z2:389:TRP:HZ2	2.03	0.70
1:A4:715:GLU:HB2	4:D3:973:GLN:NE2	1.93	0.70
9:I1:908:ARG:NH2	13:M1:555:GLN:HB3	2.05	0.70
9:I2:963:LEU:O	16:P3:152:LYS:HE2	1.92	0.70
9:I2:968:PRO:HB2	14:N3:303:SER:HB3	0.72	0.70
17:Q1:699:MET:CG	17:Q1:699:MET:CE	2.69	0.70
17:Q1:936:LYS:HD3	17:Q1:940:ASP:HB2	1.71	0.70
17:Q2:63:GLU:HG2	17:Q2:68:ILE:HG13	1.73	0.70
17:Q2:703:THR:HB	17:Q2:707:PRO:HB2	1.73	0.70
17:Q2:946:LYS:HD2	17:Q2:947:ILE:N	2.05	0.70
18:R1:532:ALA:HA	18:R1:535:ARG:HE	1.56	0.70
24:W1:404:VAL:HG11	24:W1:438:GLU:HA	1.73	0.70
25:X2:686:ALA:CA	27:Z2:8:SER:HB2	2.19	0.70
25:X2:789:GLU:HB2	27:Z2:680:TRP:HE3	1.56	0.70
25:X2:794:ILE:O	25:X2:797:LEU:HD12	1.91	0.70
26:Y2:1236:ASP:N	26:Y2:1239:PHE:CE2	2.56	0.70
27:Z1:24:ARG:HD3	27:Z1:441:SER:C	2.11	0.70
27:Z1:145:LEU:HD21	27:Z1:182:ILE:HG23	1.72	0.70
27:Z1:178:ARG:NH2	27:Z1:340:ASP:OD1	2.23	0.70
27:Z1:252:GLN:CB	27:Z1:335:MET:SD	2.78	0.70
27:Z2:282:GLN:OE1	27:Z2:333:MET:HE3	1.91	0.70
1:A2:1091:VAL:HA	4:D1:1104:GLU:CD	2.10	0.70
1:A3:1091:VAL:HG13	4:D3:1100:PRO:CB	2.21	0.70
9:I1:978:LYS:NZ	15:O1:184:ARG:NH2	2.37	0.70
9:I2:925:LEU:HD11	15:O3:186:PHE:H	1.55	0.70
9:I2:1102:GLN:N	15:O3:272:SER:C	1.68	0.70
9:I2:1107:SER:HB3	13:M3:615:PRO:HB3	1.63	0.70
9:I2:1259:ARG:NH2	9:I2:1262:GLN:OE1	2.25	0.70
9:I2:1304:ASN:OD1	14:N3:412:ASN:O	2.08	0.70
17:Q1:600:PHE:HZ	17:Q1:675:LEU:HD13	1.56	0.70
17:Q1:824:ASN:HD21	17:Q1:833:GLU:CB	2.04	0.70
18:R1:62:VAL:HG12	18:R1:66:LYS:HE3	1.73	0.70
27:Z1:46:TYR:CE1	27:Z1:48:VAL:HG23	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:522:GLU:O	27:Z1:526:GLU:CD	2.28	0.70
27:Z2:7:LEU:HD21	27:Z2:584:GLN:HE22	1.57	0.70
27:Z2:145:LEU:HD21	27:Z2:182:ILE:HG23	1.72	0.70
6:F1:273:ALA:CA	9:I1:1209:THR:OG1	2.39	0.70
6:F1:273:ALA:HA	9:I1:1209:THR:OG1	1.91	0.70
9:I1:977:ASN:CG	15:O1:177:HIS:N	2.44	0.70
9:I1:1259:ARG:NH2	9:I1:1262:GLN:OE1	2.25	0.70
9:I2:902:GLN:HB3	13:M3:580:LYS:HB2	1.32	0.70
9:I2:1048:GLU:O	16:P3:141:ALA:CA	2.39	0.70
9:I2:1254:VAL:N	14:N3:410:MET:N	2.38	0.70
17:Q1:214:CYS:CB	17:Q1:281:ARG:HD2	2.18	0.70
17:Q1:688:THR:HA	17:Q1:692:GLU:OE1	1.90	0.70
17:Q1:922:LEU:HD22	18:R1:688:LEU:HB2	1.74	0.70
17:Q1:1008:MET:CG	17:Q1:1008:MET:CE	2.69	0.70
17:Q2:104:LYS:HD2	17:Q2:120:ILE:CD1	2.21	0.70
17:Q2:532:LYS:HB2	17:Q2:581:PRO:CD	2.21	0.70
25:X2:717:LYS:HZ1	26:Y2:1320:LEU:HD12	1.56	0.70
27:Z1:307:ILE:O	27:Z1:307:ILE:CG2	2.36	0.70
27:Z2:125:SER:HB2	27:Z2:147:GLU:OE1	1.91	0.70
27:Z2:178:ARG:NH2	27:Z2:340:ASP:OD1	2.23	0.70
27:Z2:424:PRO:HB2	27:Z2:439:LEU:CD2	2.22	0.70
1:A3:1225:PRO:HA	1:A4:643:ALA:CB	2.21	0.70
6:F1:153:LEU:HG	9:I1:1395:LEU:HD21	1.73	0.70
6:F1:153:LEU:HB3	9:I1:1395:LEU:CD2	2.20	0.70
9:I2:895:ARG:CZ	13:M3:585:LEU:O	2.39	0.70
9:I2:1171:GLU:OE2	14:N3:427:VAL:HG12	1.91	0.70
17:Q1:63:GLU:HG2	17:Q1:68:ILE:HG12	1.73	0.70
17:Q1:381:TYR:C	17:Q1:512:ILE:CB	2.54	0.70
17:Q1:503:TYR:HE1	17:Q1:538:ILE:HG13	1.50	0.70
17:Q1:945:ARG:O	17:Q1:948:GLN:HG2	1.90	0.70
17:Q2:887:TRP:HA	17:Q2:890:GLN:CG	2.21	0.70
17:Q2:972:CYS:HB3	17:Q2:975:PHE:CD2	2.26	0.70
25:X2:774:ASN:CB	25:X2:798:ASN:HB2	2.21	0.70
27:Z1:182:ILE:CA	27:Z1:198:ASN:OD1	2.40	0.70
27:Z1:289:PRO:HD3	27:Z1:350:LEU:HB3	1.71	0.70
27:Z1:424:PRO:HB2	27:Z1:439:LEU:CD2	2.21	0.70
27:Z2:361:LYS:HZ1	27:Z2:378:ASP:CB	2.02	0.70
27:Z2:424:PRO:CB	27:Z2:439:LEU:CD2	2.70	0.70
1:A3:1269:ALA:O	1:A4:729:SER:N	2.12	0.70
6:F1:272:GLU:OE1	9:I1:1210:ILE:CA	2.32	0.70
9:I1:897:GLU:CA	13:M1:580:LYS:HG2	1.94	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:914:ASN:CG	15:O3:194:GLU:OE1	2.30	0.70
9:I2:976:ARG:N	14:N3:297:ALA:C	2.44	0.70
9:I2:1048:GLU:CD	14:N3:293:LYS:CE	2.59	0.70
9:I2:1182:GLN:HE22	10:J2:245:GLU:HB3	1.56	0.70
9:I2:1308:THR:CG2	14:N3:414:ALA:HB2	2.21	0.70
17:Q1:443:TRP:CE3	17:Q1:504:PHE:HE1	2.09	0.70
17:Q1:1006:TYR:HB2	17:Q1:1018:PRO:HG3	1.72	0.70
17:Q2:704:SER:H	17:Q2:707:PRO:HG2	1.57	0.70
18:R1:402:GLY:N	18:R1:444:ALA:HB1	1.91	0.70
18:R1:631:ILE:HD13	18:R1:632:LYS:N	2.06	0.70
22:U1:289:GLN:HG3	25:X1:794:ILE:O	1.90	0.70
22:U1:292:LEU:C	25:X1:802:ASP:OD2	2.29	0.70
22:U1:295:GLU:HG2	26:Y1:1367:LYS:HD2	1.72	0.70
22:U1:296:LEU:HD12	27:Z1:657:TYR:N	2.04	0.70
22:U1:299:GLU:CB	27:Z1:652:GLN:C	2.59	0.70
25:X2:684:VAL:O	27:Z2:447:PHE:HD1	1.75	0.70
25:X2:774:ASN:HA	25:X2:797:LEU:HD12	1.67	0.70
26:Y1:1211:LEU:CD2	26:Y1:1214:ILE:CD1	2.09	0.70
27:Z1:192:LEU:O	27:Z1:209:TYR:O	2.10	0.70
27:Z1:329:LYS:HE3	27:Z1:333:MET:HG3	1.72	0.70
27:Z1:381:ILE:HD11	27:Z1:424:PRO:HG3	1.73	0.70
27:Z2:35:ILE:HD12	27:Z2:429:ILE:HD11	1.74	0.70
27:Z2:582:GLU:HA	27:Z2:582:GLU:OE1	1.75	0.70
6:F1:982:PRO:HB3	9:I1:1455:ARG:CB	2.21	0.70
9:I1:843:GLU:CB	13:M1:535:GLU:HG3	2.09	0.70
9:I1:921:GLU:H	15:O1:190:ARG:CZ	2.03	0.70
9:I1:1050:SER:O	16:P1:141:ALA:HB2	1.78	0.70
9:I2:895:ARG:CG	13:M3:583:ASP:O	2.39	0.70
9:I2:963:LEU:HG	16:P3:152:LYS:N	1.93	0.70
9:I2:1046:HIS:CE1	14:N3:289:PHE:CE2	2.79	0.70
17:Q1:276:LEU:HD13	17:Q1:296:GLN:HE21	1.54	0.70
17:Q1:742:LEU:CA	17:Q1:745:ILE:HD12	2.14	0.70
17:Q2:214:CYS:CB	17:Q2:281:ARG:HD2	2.18	0.70
17:Q2:563:PHE:HA	17:Q2:566:ASN:OD1	1.91	0.70
17:Q2:727:PHE:O	17:Q2:730:GLU:HG2	1.91	0.70
17:Q2:775:ILE:O	17:Q2:779:ASN:HB2	1.92	0.70
17:Q2:945:ARG:O	17:Q2:948:GLN:HG2	1.90	0.70
25:X1:644:TRP:CZ3	26:Y1:1225:PHE:HB2	2.25	0.70
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:CD2	2.72	0.70
27:Z1:252:GLN:CB	27:Z1:335:MET:HE2	2.21	0.70
1:A4:442:ARG:NH2	4:D3:1022:PRO:CD	2.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:1049:GLN:HE22	9:I2:1391:THR:H	1.37	0.70
9:I1:980:ILE:HD12	15:O1:172:ALA:CA	2.18	0.70
9:I1:1034:ASP:HB2	16:P1:144:ASP:CA	2.22	0.70
9:I2:1023:ASP:OD1	9:I2:1096:ARG:NH1	2.25	0.70
9:I2:1034:ASP:OD2	13:M3:622:VAL:HG21	1.91	0.70
9:I2:1099:ARG:HA	15:O3:268:GLY:O	1.92	0.70
17:Q1:294:THR:HG22	17:Q1:308:ILE:CG1	2.21	0.70
17:Q1:331:LEU:HA	17:Q1:353:ASP:OD1	1.92	0.70
17:Q1:443:TRP:CD2	17:Q1:504:PHE:HE1	2.06	0.70
17:Q1:532:LYS:HB2	17:Q1:581:PRO:CD	2.21	0.70
17:Q1:843:PHE:HE1	17:Q1:875:PHE:CZ	2.09	0.70
17:Q1:1005:LEU:HD22	17:Q1:1008:MET:CE	2.21	0.70
17:Q2:279:GLY:C	17:Q2:299:ALA:HA	2.12	0.70
17:Q2:843:PHE:HE1	17:Q2:875:PHE:CZ	2.09	0.70
17:Q2:922:LEU:HD13	19:R2:688:LEU:O	1.86	0.70
25:X1:662:ILE:HD13	27:Z1:549:ILE:HG23	1.68	0.70
25:X2:695:GLN:HG3	27:Z2:431:TRP:CB	2.22	0.70
25:X2:804:LEU:HD21	27:Z2:694:ILE:HG12	1.73	0.70
27:Z2:359:GLU:CG	27:Z2:361:LYS:HE2	2.21	0.70
27:Z2:627:GLU:O	27:Z2:631:PHE:CD2	2.43	0.70
9:I1:1182:GLN:HE22	10:J1:245:GLU:HB3	1.56	0.70
9:I2:890:TYR:HD2	13:M3:590:LYS:HD2	1.57	0.70
9:I2:1168:ALA:HB3	15:O3:269:ILE:CG2	2.22	0.70
9:I2:1304:ASN:HD22	14:N3:414:ALA:HB3	1.57	0.70
9:I2:1305:LEU:HD21	15:O3:260:LEU:CG	2.21	0.70
17:Q1:104:LYS:HD2	17:Q1:120:ILE:CD1	2.21	0.70
17:Q1:386:PHE:CE2	17:Q1:563:PHE:CD1	2.80	0.70
17:Q1:526:SER:CB	17:Q1:531:LEU:HD11	2.22	0.70
17:Q1:740:GLU:O	17:Q1:744:LYS:HG2	1.91	0.70
17:Q1:773:ASN:O	17:Q1:777:ILE:HG12	1.92	0.70
17:Q1:775:ILE:O	17:Q1:779:ASN:HB2	1.92	0.70
17:Q1:887:TRP:HA	17:Q1:890:GLN:CG	2.21	0.70
17:Q2:891:ILE:HD12	19:R2:715:LEU:HD21	1.60	0.70
17:Q2:929:LEU:CD2	19:R2:714:TYR:CE1	2.73	0.70
20:S2:170:GLY:HA3	21:T2:12:ILE:HD12	1.73	0.70
25:X2:695:GLN:CD	27:Z2:431:TRP:CD2	2.64	0.70
26:Y1:1272:ILE:O	26:Y1:1276:ILE:HG13	1.92	0.70
26:Y1:1294:LYS:HG3	27:Z1:588:TRP:NE1	2.01	0.70
27:Z1:135:LYS:HE2	27:Z1:218:LEU:HD21	1.72	0.70
27:Z1:359:GLU:CG	27:Z1:361:LYS:HE2	2.21	0.70
27:Z1:379:ASN:OD1	27:Z1:380:ILE:HD12	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CD1	2.26	0.70
27:Z2:381:ILE:HD11	27:Z2:424:PRO:HG3	1.73	0.70
1:A3:1223:GLU:HB3	1:A4:648:TYR:CD2	1.45	0.70
1:A3:1328:ARG:NH2	4:D3:872:LEU:HD21	2.07	0.70
1:A3:1400:SER:N	4:D3:869:THR:HG21	1.97	0.70
9:I1:917:TYR:O	15:O1:194:GLU:HB3	1.90	0.70
9:I1:961:ARG:NH1	15:O1:190:ARG:H	1.84	0.70
9:I2:911:PRO:HB3	15:O3:197:ARG:HE	0.87	0.70
9:I2:961:ARG:HG3	16:P3:155:GLU:H	1.57	0.70
9:I2:1026:TYR:HE1	13:M3:609:GLY:HA2	1.53	0.70
9:I2:1255:HIS:NE2	14:N3:404:GLU:O	2.24	0.70
17:Q1:711:ASN:OD1	17:Q1:715:LEU:HD13	1.92	0.70
17:Q1:925:ASN:ND2	18:R1:695:ALA:HB3	2.06	0.70
17:Q2:214:CYS:HB3	17:Q2:281:ARG:CD	2.18	0.70
17:Q2:276:LEU:CB	17:Q2:280:THR:HG23	2.22	0.70
17:Q2:740:GLU:O	17:Q2:744:LYS:HG2	1.92	0.70
19:R2:531:ILE:HG23	19:R2:580:PHE:CE1	2.26	0.70
19:R2:634:PHE:CE1	19:R2:635:LEU:HG	2.27	0.70
25:X1:817:GLN:O	25:X1:820:SER:OG	2.09	0.70
25:X2:665:TRP:CD1	26:Y2:1267:GLU:CB	2.74	0.70
25:X2:694:ASP:HB2	27:Z2:431:TRP:CA	2.22	0.70
26:Y1:1431:MET:CA	26:Y1:1434:PHE:CE2	2.74	0.70
26:Y1:1455:ASN:CA	26:Y1:1456:LEU:N	2.54	0.70
26:Y2:1334:LEU:HD23	27:Z1:110:GLN:N	1.42	0.70
27:Z1:24:ARG:CZ	27:Z1:440:MET:CA	2.69	0.70
27:Z1:27:PHE:CE1	27:Z1:36:VAL:CB	2.63	0.70
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CD2	2.75	0.70
27:Z1:544:THR:OG1	27:Z2:558:PHE:HB2	1.92	0.70
6:F1:273:ALA:H	9:I1:1208:LEU:C	1.89	0.69
6:F1:983:SER:HB3	9:I1:1459:ASN:OD1	1.92	0.69
6:F1:1392:LEU:CG	15:O2:259:ASP:OD1	2.38	0.69
9:I1:1023:ASP:OD1	9:I1:1096:ARG:NH1	2.25	0.69
9:I1:1034:ASP:HB2	16:P1:144:ASP:HB3	1.73	0.69
9:I2:1106:LYS:CE	14:N3:430:ARG:HH11	1.84	0.69
17:Q2:196:LEU:HD12	17:Q2:198:LEU:CD2	2.22	0.69
17:Q2:394:LYS:HG2	17:Q2:395:PHE:H	1.57	0.69
17:Q2:822:ASP:OD1	17:Q2:824:ASN:HB2	1.92	0.69
18:R1:635:LEU:CD1	18:R1:655:ILE:HB	2.22	0.69
19:R2:62:VAL:HG12	19:R2:66:LYS:HE3	1.73	0.69
19:R2:691:THR:CG2	19:R2:718:VAL:HG21	2.22	0.69
22:U1:248:LYS:C	25:X1:805:ARG:HB2	2.12	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:288:LEU:HD13	25:X1:792:GLN:O	1.92	0.69
27:Z2:252:GLN:NE2	27:Z2:335:MET:CA	2.53	0.69
27:Z2:335:MET:SD	27:Z2:337:TRP:CH2	2.85	0.69
1:A2:1196:GLU:OE2	1:A1:590:SER:CB	2.40	0.69
1:A2:1200:ARG:CB	1:A1:595:GLU:HB3	2.20	0.69
9:I1:714:THR:O	9:I1:718:GLN:NE2	2.25	0.69
9:I1:895:ARG:HB3	13:M1:583:ASP:OD1	1.92	0.69
9:I2:909:ARG:HB3	13:M3:580:LYS:HZ1	1.56	0.69
17:Q1:100:ASN:OD1	17:Q1:105:VAL:HG22	1.92	0.69
17:Q1:142:PHE:CD1	17:Q1:143:PRO:HD2	2.27	0.69
17:Q1:166:ILE:HB	17:Q1:173:ILE:HG22	1.71	0.69
17:Q1:362:ILE:CG2	17:Q1:511:PRO:O	2.40	0.69
17:Q1:839:PHE:CD1	17:Q1:840:PRO:HD2	2.27	0.69
17:Q2:100:ASN:OD1	17:Q2:105:VAL:HG22	1.92	0.69
17:Q2:142:PHE:CD1	17:Q2:143:PRO:HD2	2.27	0.69
17:Q2:847:LEU:HD11	17:Q2:875:PHE:CE2	2.27	0.69
18:R1:650:GLU:HA	18:R1:653:TYR:CE2	2.27	0.69
19:R2:511:ILE:HA	19:R2:549:PHE:CE1	2.27	0.69
19:R2:586:GLN:HE21	19:R2:630:LEU:CD1	2.03	0.69
25:X1:662:ILE:HG23	27:Z1:556:GLN:NE2	2.07	0.69
25:X2:680:TYR:CE1	27:Z2:439:LEU:HD12	2.26	0.69
25:X2:807:LEU:HD21	27:Z2:698:ASN:CB	2.08	0.69
26:Y1:1236:ASP:N	26:Y1:1239:PHE:CE2	2.56	0.69
26:Y2:1238:PHE:HE1	27:Z2:557:GLN:OE1	1.75	0.69
26:Y2:1410:GLN:HB3	27:Z2:711:LYS:CE	2.12	0.69
27:Z1:244:ILE:HG13	27:Z1:344:TYR:HH	1.54	0.69
27:Z2:47:ASN:HB3	27:Z2:50:THR:OG1	1.93	0.69
27:Z2:182:ILE:CA	27:Z2:198:ASN:OD1	2.40	0.69
27:Z2:294:LEU:HD12	27:Z2:325:ILE:HD11	1.73	0.69
1:A2:1221:ILE:HB	1:A1:600:LYS:CG	2.22	0.69
1:A3:1401:VAL:C	4:D3:873:GLN:HE22	1.96	0.69
9:I1:754:ARG:H	13:M1:556:MET:CE	2.05	0.69
9:I1:1106:LYS:HE3	13:M1:611:LYS:CG	2.15	0.69
9:I2:899:LEU:HB3	13:M3:581:LEU:O	1.92	0.69
9:I2:1026:TYR:CD1	13:M3:612:PRO:CG	2.43	0.69
17:Q1:63:GLU:HG2	17:Q1:68:ILE:HG13	1.73	0.69
17:Q1:563:PHE:HA	17:Q1:566:ASN:OD1	1.91	0.69
17:Q2:63:GLU:HG2	17:Q2:68:ILE:HG12	1.72	0.69
17:Q2:227:ARG:HD2	17:Q2:229:PHE:CZ	2.27	0.69
17:Q2:528:GLU:CB	17:Q2:579:ILE:HD12	2.23	0.69
17:Q2:688:THR:HG22	17:Q2:692:GLU:HB2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:699:MET:CE	17:Q2:699:MET:CG	2.69	0.69
17:Q2:1005:LEU:HD22	17:Q2:1008:MET:CE	2.21	0.69
17:Q2:1006:TYR:HB2	17:Q2:1018:PRO:HG3	1.72	0.69
18:R1:701:ILE:HG22	18:R1:705:PHE:HE1	1.55	0.69
25:X1:682:ASP:HB2	26:Y1:1281:MET:HE1	1.74	0.69
25:X1:789:GLU:CD	27:Z1:680:TRP:CD1	2.65	0.69
25:X2:662:ILE:HG23	27:Z2:556:GLN:NE2	2.07	0.69
25:X2:693:ILE:HD12	27:Z2:7:LEU:CB	2.21	0.69
25:X2:721:LEU:HD21	26:Y2:1319:PHE:HD2	1.55	0.69
26:Y2:1402:LEU:HA	26:Y2:1405:GLN:HG2	1.75	0.69
27:Z1:165:VAL:CG1	27:Z1:168:LYS:HG2	2.22	0.69
27:Z1:395:LYS:CE	27:Z2:266:ARG:CG	2.70	0.69
27:Z2:165:VAL:CG1	27:Z2:168:LYS:HG2	2.22	0.69
1:A3:1328:ARG:HG2	4:D3:872:LEU:HD22	0.89	0.69
9:I2:1109:LEU:HD23	15:O3:284:LYS:HZ3	1.56	0.69
17:Q1:72:LEU:HD12	17:Q1:110:ILE:HG22	1.74	0.69
17:Q2:288:ASN:O	17:Q2:333:ILE:HG22	1.91	0.69
17:Q2:527:ILE:H	17:Q2:527:ILE:HD13	1.57	0.69
17:Q2:600:PHE:HZ	17:Q2:675:LEU:HD13	1.56	0.69
17:Q2:705:LYS:HA	17:Q2:710:ILE:CD1	2.22	0.69
17:Q2:839:PHE:CD1	17:Q2:840:PRO:HD2	2.27	0.69
18:R1:586:GLN:NE2	18:R1:630:LEU:HD13	2.04	0.69
18:R1:634:PHE:CE1	18:R1:635:LEU:HG	2.27	0.69
18:R1:679:LYS:HG3	18:R1:680:ILE:N	2.06	0.69
24:W1:527:SER:HB3	24:W1:739:PHE:O	1.90	0.69
24:W2:404:VAL:HG11	24:W2:438:GLU:HA	1.73	0.69
25:X1:687:GLU:OE2	27:Z1:573:LYS:HB3	1.92	0.69
25:X1:778:LYS:O	25:X1:778:LYS:CD	2.39	0.69
25:X2:693:ILE:HD13	27:Z2:7:LEU:CD1	2.21	0.69
25:X2:695:GLN:HG2	27:Z2:431:TRP:HA	1.72	0.69
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:CG	2.22	0.69
26:Y2:1453:PHE:C	26:Y2:1455:ASN:OD1	2.29	0.69
27:Z1:541:LYS:HE3	27:Z2:552:ARG:CB	2.22	0.69
27:Z2:307:ILE:CD1	27:Z2:371:GLY:HA2	2.23	0.69
27:Z2:581:PHE:CA	27:Z2:581:PHE:C	2.61	0.69
27:Z2:642:ASN:O	27:Z2:644:PHE:N	2.18	0.69
1:A2:1204:TRP:CD2	1:A1:598:VAL:HG12	2.26	0.69
1:A2:1221:ILE:CG1	1:A1:596:ARG:O	2.40	0.69
1:A2:1224:PRO:C	1:A1:648:TYR:CE2	2.65	0.69
1:A2:1274:ASP:C	1:A1:642:ARG:NH1	2.46	0.69
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CG	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:143:GLY:N	9:I2:1395:LEU:CG	2.54	0.69
7:G1:251:TYR:C	15:O2:247:TRP:N	2.24	0.69
9:I2:964:SER:N	16:P3:152:LYS:CE	2.55	0.69
9:I2:1102:GLN:HG3	15:O3:269:ILE:O	1.91	0.69
17:Q1:139:ILE:HB	17:Q1:211:MET:CE	2.22	0.69
17:Q1:332:LYS:O	17:Q1:351:ILE:HG23	1.92	0.69
17:Q1:528:GLU:CB	17:Q1:579:ILE:HD12	2.23	0.69
17:Q1:703:THR:HB	17:Q1:707:PRO:HB2	1.73	0.69
17:Q1:802:ILE:O	17:Q1:802:ILE:HD13	1.92	0.69
17:Q1:812:SER:O	17:Q1:815:VAL:HG22	1.91	0.69
19:R2:162:LEU:HB3	20:S2:315:LYS:HG3	1.74	0.69
22:U1:295:GLU:HG3	26:Y1:1367:LYS:HD2	1.75	0.69
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:CD2	2.72	0.69
26:Y2:1272:ILE:O	26:Y2:1276:ILE:HG13	1.92	0.69
26:Y2:1321:MET:HA	27:Z1:51:ASP:HB2	1.70	0.69
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:CE1	2.71	0.69
27:Z1:361:LYS:HZ1	27:Z1:378:ASP:CB	2.01	0.69
27:Z1:363:LEU:CG	27:Z1:373:LEU:HD11	2.22	0.69
27:Z1:422:ARG:HE	27:Z1:442:ASN:ND2	1.91	0.69
27:Z1:581:PHE:CA	27:Z1:581:PHE:C	2.61	0.69
6:F1:143:GLY:CA	9:I1:1394:ASN:OD1	2.37	0.69
6:F1:1807:GLU:O	14:N2:411:GLN:NE2	2.24	0.69
6:F2:140:GLU:OE1	9:I2:1388:GLU:C	2.27	0.69
9:I1:981:VAL:CG1	15:O1:176:ARG:HG3	2.21	0.69
9:I1:1034:ASP:HB2	16:P1:144:ASP:HA	1.74	0.69
9:I1:1182:GLN:NE2	10:J1:245:GLU:HB3	2.07	0.69
9:I2:1102:GLN:CD	15:O3:274:GLY:H	1.96	0.69
17:Q1:227:ARG:HD2	17:Q1:229:PHE:CZ	2.27	0.69
17:Q1:426:ILE:HD12	17:Q1:443:TRP:HH2	1.58	0.69
18:R1:162:LEU:HB3	20:S1:315:LYS:HG3	1.74	0.69
18:R1:626:ASP:O	18:R1:630:LEU:HG	1.93	0.69
19:R2:650:GLU:HA	19:R2:653:TYR:CE2	2.27	0.69
26:Y1:1235:MET:C	26:Y1:1239:PHE:CD2	2.65	0.69
26:Y1:1449:ILE:HG22	26:Y1:1453:PHE:HE2	1.45	0.69
27:Z1:307:ILE:CD1	27:Z1:371:GLY:HA2	2.23	0.69
27:Z2:331:LEU:HD12	27:Z2:347:SER:CB	2.22	0.69
27:Z2:422:ARG:HE	27:Z2:442:ASN:ND2	1.91	0.69
9:I2:896:PRO:HB2	15:O3:234:LEU:HD11	1.75	0.69
17:Q1:211:MET:C	17:Q1:212:LEU:HD22	2.13	0.69
17:Q1:822:ASP:OD1	17:Q1:824:ASN:HB2	1.92	0.69
17:Q2:283:VAL:HG21	17:Q2:297:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:332:LYS:O	17:Q2:351:ILE:HG23	1.92	0.69
17:Q2:584:LYS:NZ	17:Q2:590:LYS:HD2	2.07	0.69
18:R1:650:GLU:HA	18:R1:653:TYR:CD2	2.26	0.69
19:R2:631:ILE:HD13	19:R2:632:LYS:N	2.06	0.69
19:R2:650:GLU:HA	19:R2:653:TYR:CD2	2.26	0.69
22:U1:206:ALA:N	27:Z1:668:GLU:OE2	2.25	0.69
25:X2:680:TYR:CZ	27:Z2:420:ILE:HG22	2.26	0.69
25:X2:694:ASP:CA	27:Z2:431:TRP:HB3	2.22	0.69
26:Y2:1454:LYS:NZ	27:Z2:288:ASN:HB2	2.05	0.69
27:Z1:93:VAL:C	27:Z1:94:PRO:HD2	1.78	0.69
27:Z1:335:MET:SD	27:Z1:337:TRP:CH2	2.85	0.69
27:Z1:542:ALA:H	27:Z2:551:ASN:HA	1.56	0.69
27:Z2:69:PHE:HA	27:Z2:84:ASN:CG	2.01	0.69
27:Z2:342:TYR:CE1	27:Z2:344:TYR:CE2	2.69	0.69
1:A2:1223:GLU:OE1	1:A1:611:ILE:HD11	1.90	0.69
1:A2:1271:ILE:HG23	1:A1:730:THR:O	1.93	0.69
1:A2:1313:LYS:NZ	1:A1:728:LYS:HZ3	1.87	0.69
1:A3:1221:ILE:N	1:A4:595:GLU:CB	2.49	0.69
1:A3:1223:GLU:HG3	1:A4:647:GLU:CB	2.19	0.69
1:A4:827:ILE:HG23	1:A4:850:PRO:HD3	1.73	0.69
1:A4:827:ILE:CD1	1:A4:849:SER:OG	2.41	0.69
6:F1:138:ILE:CG2	9:I1:1392:VAL:CG2	2.69	0.69
6:F1:1049:GLN:HB3	9:I1:1388:GLU:N	2.08	0.69
9:I1:921:GLU:H	15:O1:190:ARG:NH1	1.90	0.69
9:I1:925:LEU:HD21	15:O1:188:ALA:H	1.57	0.69
9:I1:1034:ASP:HB2	16:P1:144:ASP:CB	2.23	0.69
9:I1:1357:LYS:CE	15:O1:263:GLN:HG3	2.19	0.69
9:I2:1305:LEU:CG	15:O3:264:ILE:HG12	2.21	0.69
9:I2:1305:LEU:HB2	15:O3:263:GLN:CD	2.12	0.69
17:Q1:584:LYS:NZ	17:Q1:590:LYS:HD2	2.07	0.69
17:Q1:703:THR:CB	17:Q1:707:PRO:HB2	2.23	0.69
17:Q1:705:LYS:HA	17:Q1:710:ILE:CD1	2.22	0.69
17:Q1:786:LEU:HB3	17:Q1:811:LEU:HG	1.73	0.69
17:Q1:806:GLU:O	17:Q1:809:LYS:HD3	1.93	0.69
17:Q1:868:HIS:O	17:Q1:872:ILE:HG13	1.93	0.69
17:Q2:310:VAL:CG2	17:Q2:368:PHE:HE2	2.06	0.69
17:Q2:331:LEU:HA	17:Q2:353:ASP:OD1	1.92	0.69
17:Q2:417:LEU:HD12	17:Q2:465:LEU:HB2	1.75	0.69
17:Q2:449:LEU:HB3	17:Q2:453:ILE:HD12	1.73	0.69
17:Q2:526:SER:CB	17:Q2:531:LEU:HD11	2.22	0.69
17:Q2:773:ASN:O	17:Q2:777:ILE:HG12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:791:VAL:CG1	17:Q2:792:LEU:HD12	2.17	0.69
17:Q2:802:ILE:O	17:Q2:802:ILE:HD13	1.92	0.69
17:Q2:1149:ASN:HB3	17:Q2:1152:THR:OG1	1.93	0.69
19:R2:635:LEU:CD1	19:R2:655:ILE:HB	2.22	0.69
22:U1:288:LEU:HD13	25:X1:792:GLN:HA	1.70	0.69
24:W1:403:ASP:CA	24:W1:723:PHE:C	2.53	0.69
25:X2:687:GLU:OE2	27:Z2:573:LYS:HB3	1.92	0.69
25:X2:821:ILE:HG22	26:Y2:1409:LEU:HD21	1.75	0.69
26:Y1:1238:PHE:HE1	27:Z1:557:GLN:OE1	1.75	0.69
26:Y1:1402:LEU:HA	26:Y1:1405:GLN:HG2	1.75	0.69
26:Y1:1443:MET:HE3	27:Z1:332:GLU:CG	2.20	0.69
26:Y2:1215:GLU:O	26:Y2:1219:GLN:HG3	1.93	0.69
26:Y2:1294:LYS:CG	27:Z2:588:TRP:HE1	2.00	0.69
27:Z1:35:ILE:HD12	27:Z1:429:ILE:HD11	1.74	0.69
27:Z1:424:PRO:CB	27:Z1:439:LEU:CD2	2.70	0.69
27:Z1:634:ILE:CG2	27:Z1:638:ILE:HD11	2.23	0.69
27:Z1:678:ASN:OD1	27:Z1:678:ASN:C	2.31	0.69
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:CD2	1.79	0.69
1:A2:1200:ARG:CG	1:A1:595:GLU:HB3	2.23	0.69
1:A2:1224:PRO:HG3	1:A1:595:GLU:CG	1.84	0.69
6:F1:138:ILE:CD1	9:I1:1388:GLU:O	2.40	0.69
7:G2:252:LEU:HB2	15:O4:251:ILE:CB	2.21	0.69
9:I1:1048:GLU:HB3	14:N1:293:LYS:HZ1	0.87	0.69
9:I1:1051:LYS:HB3	14:N1:293:LYS:HZ3	1.57	0.69
17:Q1:394:LYS:HG2	17:Q1:395:PHE:H	1.57	0.69
17:Q1:416:ILE:HG12	17:Q1:427:THR:O	1.93	0.69
17:Q1:557:LEU:HD12	17:Q1:632:LYS:HD2	1.74	0.69
17:Q1:570:PHE:HA	17:Q1:573:LYS:HE2	1.75	0.69
17:Q1:886:ALA:O	17:Q1:890:GLN:HG2	1.93	0.69
17:Q2:294:THR:HG22	17:Q2:308:ILE:CG1	2.21	0.69
25:X1:665:TRP:CE3	27:Z1:556:GLN:NE2	2.51	0.69
25:X1:755:LEU:HD11	26:Y1:1349:LEU:CD1	2.13	0.69
26:Y1:1215:GLU:O	26:Y1:1219:GLN:HG3	1.92	0.69
26:Y1:1295:VAL:CA	27:Z1:588:TRP:CH2	2.69	0.69
26:Y2:1316:GLU:HG2	27:Z2:609:LEU:HD13	1.74	0.69
26:Y2:1410:GLN:CA	27:Z2:711:LYS:CE	2.71	0.69
27:Z1:252:GLN:OE1	27:Z1:334:SER:CB	2.41	0.69
27:Z1:331:LEU:HD12	27:Z1:347:SER:CB	2.22	0.69
27:Z1:696:GLU:O	27:Z1:700:GLU:HG2	1.93	0.69
27:Z2:179:VAL:HG22	27:Z2:206:PHE:HE2	1.53	0.69
1:A2:1225:PRO:CG	1:A1:640:LEU:CD2	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:990:GLN:CG	9:I1:1394:ASN:ND2	2.56	0.69
7:G2:254:ASN:OD1	15:O4:252:VAL:CA	2.39	0.69
9:I1:1308:THR:O	9:I1:1312:ASN:ND2	2.26	0.69
9:I2:1308:THR:O	9:I2:1312:ASN:ND2	2.26	0.69
17:Q1:310:VAL:CG2	17:Q1:368:PHE:HE2	2.06	0.69
17:Q1:715:LEU:HD21	17:Q1:751:TYR:CE1	2.28	0.69
17:Q1:847:LEU:HD13	17:Q1:879:ALA:HB2	1.75	0.69
17:Q2:112:SER:OG	17:Q2:116:ASP:HB2	1.93	0.69
17:Q2:887:TRP:HA	17:Q2:890:GLN:HG3	1.75	0.69
18:R1:511:ILE:HA	18:R1:549:PHE:CE1	2.28	0.69
18:R1:617:ILE:CD1	18:R1:674:ALA:HB2	2.23	0.69
19:R2:506:ILE:HG13	19:R2:507:ASP:N	2.05	0.69
22:U1:289:GLN:HE22	25:X1:794:ILE:HG12	1.55	0.69
25:X2:721:LEU:CD2	26:Y2:1319:PHE:CD2	2.76	0.69
26:Y1:1228:LEU:CD1	27:Z1:539:ILE:HG22	2.22	0.69
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:CG	2.22	0.69
26:Y1:1410:GLN:H	27:Z1:711:LYS:CE	2.06	0.69
26:Y2:1382:VAL:HG11	26:Y2:1385:LEU:HB2	0.71	0.69
27:Z2:192:LEU:O	27:Z2:209:TYR:O	2.10	0.69
1:A3:1088:ASN:CG	4:D3:1095:ARG:HH22	1.91	0.68
1:A4:132:ASP:OD2	4:D3:1003:GLU:OE1	2.11	0.68
6:F1:161:ALA:N	9:I1:1335:LYS:N	2.13	0.68
7:G1:252:LEU:O	15:O2:243:LEU:CD2	2.26	0.68
9:I1:914:ASN:ND2	13:M1:537:LEU:C	2.45	0.68
9:I1:1051:LYS:O	14:N1:293:LYS:NZ	2.26	0.68
9:I1:1051:LYS:C	14:N1:293:LYS:NZ	2.46	0.68
9:I2:714:THR:O	9:I2:718:GLN:NE2	2.25	0.68
9:I2:1168:ALA:HB3	15:O3:269:ILE:C	2.05	0.68
17:Q1:196:LEU:HD12	17:Q1:198:LEU:CD2	2.22	0.68
17:Q1:279:GLY:C	17:Q1:299:ALA:HA	2.12	0.68
17:Q2:211:MET:C	17:Q2:212:LEU:HD22	2.13	0.68
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:HD2	1.57	0.68
17:Q2:903:LEU:HB3	17:Q2:927:ALA:HB2	1.74	0.68
23:V1:454:LEU:O	23:V1:456:SER:N	2.26	0.68
25:X1:710:PHE:CZ	26:Y1:1313:ALA:HB2	2.28	0.68
25:X1:788:ASP:C	25:X1:788:ASP:OD2	2.31	0.68
25:X2:676:ILE:CD1	26:Y2:1274:ASN:OD1	2.41	0.68
26:Y2:1365:ILE:HG21	26:Y2:1386:ALA:C	2.13	0.68
27:Z1:186:GLU:HG2	27:Z1:302:ILE:O	1.93	0.68
27:Z2:126:SER:N	27:Z2:147:GLU:OE2	2.26	0.68
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CD2	2.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:241:THR:CB	27:Z2:246:LYS:NZ	2.52	0.68
27:Z2:280:LYS:HE2	27:Z2:338:ASP:HA	1.76	0.68
27:Z2:329:LYS:HE3	27:Z2:333:MET:HG3	1.72	0.68
27:Z2:358:ARG:CZ	27:Z2:382:GLN:HE22	2.02	0.68
27:Z2:363:LEU:CG	27:Z2:373:LEU:HD11	2.22	0.68
9:I2:906:GLY:CA	13:M3:573:ARG:CG	2.71	0.68
9:I2:1049:LEU:HD13	14:N3:296:GLY:HA3	0.69	0.68
17:Q1:141:THR:CG2	17:Q1:163:GLY:HA3	2.23	0.68
17:Q1:449:LEU:HB3	17:Q1:453:ILE:HD12	1.73	0.68
17:Q1:649:PHE:CE2	17:Q1:653:VAL:HG21	2.28	0.68
17:Q1:887:TRP:HA	17:Q1:890:GLN:HG3	1.75	0.68
17:Q2:874:PHE:CG	19:R2:726:ASN:OD1	2.47	0.68
17:Q2:1016:PHE:HZ	17:Q2:1070:LEU:HD21	1.58	0.68
18:R1:691:THR:CG2	18:R1:718:VAL:HG21	2.23	0.68
22:U1:241:ARG:HH11	27:Z1:659:LYS:HZ2	1.38	0.68
23:V2:163:LYS:HB2	23:V2:172:PHE:CD1	2.29	0.68
24:W1:406:ARG:HD3	24:W1:720:PHE:HA	1.74	0.68
25:X2:692:LYS:CD	27:Z2:10:LEU:HB3	2.24	0.68
26:Y2:1454:LYS:HE3	27:Z2:349:VAL:CG2	2.15	0.68
27:Z1:177:ALA:O	27:Z1:178:ARG:HG2	1.94	0.68
27:Z1:179:VAL:HG11	27:Z1:198:ASN:ND2	2.08	0.68
27:Z1:335:MET:SD	27:Z1:337:TRP:HZ3	2.17	0.68
27:Z2:16:SER:H	27:Z2:16:SER:C	1.97	0.68
27:Z2:27:PHE:HE2	27:Z2:36:VAL:HG22	1.36	0.68
6:F1:138:ILE:HD13	9:I1:1388:GLU:HA	1.75	0.68
9:I1:918:SER:HA	15:O1:193:ALA:CB	2.22	0.68
9:I1:977:ASN:CG	15:O1:174:LEU:O	2.31	0.68
9:I2:916:ALA:HB2	15:O3:193:ALA:N	2.07	0.68
9:I2:1048:GLU:HG3	14:N3:293:LYS:HB2	1.74	0.68
9:I2:1182:GLN:NE2	10:J2:245:GLU:HB3	2.07	0.68
17:Q1:112:SER:OG	17:Q1:116:ASP:HB2	1.93	0.68
17:Q1:210:LEU:CD1	17:Q1:212:LEU:HD23	2.20	0.68
17:Q1:594:LEU:HD23	17:Q1:639:PRO:CD	2.19	0.68
17:Q1:903:LEU:HB3	17:Q1:927:ALA:HB2	1.74	0.68
17:Q2:139:ILE:HB	17:Q2:211:MET:CE	2.22	0.68
17:Q2:824:ASN:HD21	17:Q2:833:GLU:CB	2.04	0.68
17:Q2:1137:ILE:HG13	17:Q2:1138:GLY:N	2.08	0.68
18:R1:13:THR:O	18:R1:17:ASP:N	2.24	0.68
18:R1:475:ILE:O	18:R1:479:THR:HG23	1.92	0.68
23:V2:454:LEU:O	23:V2:456:SER:N	2.25	0.68
25:X2:717:LYS:CB	26:Y2:1320:LEU:HD11	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:788:ASP:N	25:X2:788:ASP:CA	0.60	0.68
26:Y2:1291:LEU:HD13	27:Z2:581:PHE:HD1	1.47	0.68
27:Z1:359:GLU:CB	27:Z1:361:LYS:HE3	2.24	0.68
1:A2:1222:ALA:HB2	1:A1:600:LYS:HB2	1.75	0.68
1:A4:1048:ARG:O	4:D4:1096:TYR:OH	2.09	0.68
7:G2:252:LEU:CB	15:O4:251:ILE:HB	2.22	0.68
9:I1:909:ARG:HA	13:M1:548:LEU:HD21	1.72	0.68
9:I1:966:TRP:CB	15:O1:179:LEU:N	2.56	0.68
17:Q1:718:ILE:HG22	17:Q1:722:PHE:HE1	1.58	0.68
17:Q1:847:LEU:HD11	17:Q1:875:PHE:CE2	2.27	0.68
17:Q2:416:ILE:HG12	17:Q2:427:THR:O	1.93	0.68
17:Q2:532:LYS:HD3	17:Q2:581:PRO:CG	2.14	0.68
17:Q2:533:LEU:O	17:Q2:533:LEU:HD23	1.94	0.68
17:Q2:557:LEU:HD12	17:Q2:632:LYS:HD2	1.74	0.68
17:Q2:614:TRP:O	17:Q2:617:THR:HG22	1.94	0.68
17:Q2:711:ASN:OD1	17:Q2:715:LEU:HD13	1.92	0.68
18:R1:633:THR:CG2	18:R1:636:VAL:HG21	2.21	0.68
19:R2:624:SER:HB2	19:R2:667:LEU:HD23	1.75	0.68
19:R2:626:ASP:O	19:R2:630:LEU:HG	1.93	0.68
20:S2:483:GLU:CD	20:S2:514:ARG:HH22	1.96	0.68
22:U1:296:LEU:HB2	27:Z1:655:LEU:O	1.85	0.68
24:W1:400:LYS:HE3	24:W1:716:GLU:CA	2.23	0.68
25:X1:721:LEU:CD2	26:Y1:1319:PHE:CD2	2.76	0.68
25:X1:790:ASN:N	27:Z1:680:TRP:CZ2	2.62	0.68
25:X2:685:MET:N	27:Z2:445:LEU:C	2.46	0.68
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD11	1.89	0.68
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD22	2.10	0.68
26:Y1:1316:GLU:HG2	27:Z1:609:LEU:HD13	1.74	0.68
27:Z1:126:SER:N	27:Z1:147:GLU:OE2	2.26	0.68
27:Z1:401:ASP:O	27:Z1:404:PRO:HD2	1.94	0.68
27:Z2:359:GLU:CB	27:Z2:361:LYS:HE3	2.24	0.68
27:Z2:634:ILE:CG2	27:Z2:638:ILE:HD11	2.23	0.68
1:A3:1222:ALA:CB	1:A4:598:VAL:HB	2.24	0.68
1:A3:1272:GLY:HA2	1:A4:727:ASN:HA	1.74	0.68
6:F1:138:ILE:CG2	9:I1:1391:THR:HG22	2.22	0.68
9:I1:912:VAL:HB	13:M1:542:ASP:CG	2.13	0.68
9:I1:916:ALA:O	13:M1:534:GLN:NE2	2.26	0.68
9:I1:1034:ASP:HB3	16:P1:147:LEU:HD23	1.76	0.68
9:I1:1359:ASP:O	15:O1:266:GLN:OE1	2.04	0.68
9:I2:1095:TYR:CD1	15:O3:268:GLY:CA	2.75	0.68
17:Q2:72:LEU:HD12	17:Q2:110:ILE:HG22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:104:LYS:HG2	17:Q2:122:VAL:HG22	1.76	0.68
17:Q2:570:PHE:HA	17:Q2:573:LYS:HE2	1.75	0.68
17:Q2:649:PHE:CE2	17:Q2:653:VAL:HG21	2.28	0.68
17:Q2:703:THR:CB	17:Q2:707:PRO:HB2	2.23	0.68
19:R2:679:LYS:HG3	19:R2:680:ILE:N	2.07	0.68
22:U1:296:LEU:HB2	27:Z1:658:LEU:H	1.57	0.68
23:V1:163:LYS:HB2	23:V1:172:PHE:CD1	2.29	0.68
25:X1:650:GLU:O	25:X1:654:HIS:ND1	2.27	0.68
25:X1:776:PHE:HE2	26:Y1:1369:PHE:HD1	1.41	0.68
25:X2:682:ASP:HB2	26:Y2:1281:MET:HE1	1.75	0.68
25:X2:721:LEU:HD22	26:Y2:1319:PHE:CD2	2.28	0.68
26:Y1:1298:TYR:CD2	27:Z1:595:GLN:NE2	2.61	0.68
26:Y1:1429:LYS:NZ	26:Y1:1434:PHE:N	2.41	0.68
26:Y2:1228:LEU:CD1	27:Z2:539:ILE:HG22	2.23	0.68
26:Y2:1230:GLU:HG3	26:Y2:1233:ARG:HH22	1.58	0.68
26:Y2:1339:PHE:CG	27:Z2:630:TRP:CE3	2.73	0.68
26:Y2:1412:GLU:CA	26:Y2:1412:GLU:N	2.57	0.68
7:G1:255:LEU:HB2	15:O2:243:LEU:C	2.13	0.68
9:I1:1049:LEU:HG	14:N1:293:LYS:O	1.92	0.68
9:I1:1667:GLN:HG2	9:I2:1669:ARG:O	1.94	0.68
9:I2:902:GLN:C	13:M3:577:LEU:HA	2.14	0.68
9:I2:1025:LEU:O	13:M3:613:ASP:N	2.27	0.68
17:Q1:417:LEU:HD12	17:Q1:465:LEU:HB2	1.75	0.68
17:Q1:546:ILE:HG12	17:Q1:552:THR:OG1	1.93	0.68
17:Q1:1137:ILE:HG13	17:Q1:1138:GLY:N	2.08	0.68
17:Q2:542:ASN:ND2	17:Q2:564:PHE:HB2	2.08	0.68
18:R1:711:LEU:HG	18:R1:714:TYR:HE2	1.59	0.68
22:U2:102:CYS:SG	22:U2:103:THR:N	2.67	0.68
25:X1:821:ILE:HG22	26:Y1:1409:LEU:HD21	1.75	0.68
25:X2:665:TRP:CD2	25:X2:669:LEU:HD11	2.29	0.68
25:X2:685:MET:CE	27:Z2:13:PHE:CZ	2.76	0.68
27:Z2:34:ARG:CD	27:Z2:95:TRP:CH2	2.77	0.68
27:Z2:46:TYR:CD1	27:Z2:46:TYR:C	2.67	0.68
27:Z2:188:SER:OG	27:Z2:195:TYR:CE2	2.29	0.68
27:Z2:696:GLU:O	27:Z2:700:GLU:HG2	1.94	0.68
1:A2:1226:LEU:HD13	1:A1:646:ILE:HB	1.74	0.68
1:A3:1200:ARG:HB3	1:A4:591:ASP:OD1	1.88	0.68
7:G1:250:THR:OG1	15:O2:247:TRP:CE3	2.33	0.68
9:I1:916:ALA:CB	13:M1:534:GLN:HG2	2.24	0.68
9:I1:1106:LYS:CB	13:M1:613:ASP:HB3	2.23	0.68
9:I2:921:GLU:OE1	16:P3:157:GLU:CD	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:976:ARG:CZ	15:O3:174:LEU:HD11	2.22	0.68
9:I2:1103:LEU:CB	13:M3:611:LYS:HZ1	1.86	0.68
17:Q1:89:TYR:HD2	17:Q1:90:ILE:CG2	2.07	0.68
17:Q1:171:LYS:NZ	17:Q1:173:ILE:HB	2.09	0.68
17:Q2:925:ASN:O	17:Q2:929:LEU:HD13	1.93	0.68
19:R2:617:ILE:CD1	19:R2:674:ALA:HB2	2.23	0.68
19:R2:664:LEU:HD13	19:R2:690:PHE:HE1	1.59	0.68
22:U1:102:CYS:SG	22:U1:103:THR:N	2.67	0.68
25:X1:717:LYS:CB	26:Y1:1320:LEU:HD11	2.20	0.68
25:X2:676:ILE:CD1	26:Y2:1274:ASN:CG	2.61	0.68
25:X2:778:LYS:CB	25:X2:794:ILE:HG12	2.23	0.68
27:Z1:41:ASN:HD21	27:Z1:60:SER:CA	1.77	0.68
27:Z1:241:THR:CB	27:Z1:246:LYS:NZ	2.52	0.68
27:Z1:537:GLN:C	27:Z2:552:ARG:HG3	1.66	0.68
27:Z1:630:TRP:HE1	27:Z1:634:ILE:HD11	1.57	0.68
27:Z2:669:THR:HG21	27:Z2:680:TRP:CZ3	2.27	0.68
9:I1:900:ARG:CB	13:M1:580:LYS:CG	2.71	0.68
9:I1:961:ARG:HH12	15:O1:190:ARG:HA	1.56	0.68
9:I1:1050:SER:OG	14:N1:293:LYS:CG	2.42	0.68
9:I2:1107:SER:HB2	13:M3:615:PRO:HB3	1.76	0.68
17:Q1:1149:ASN:HB3	17:Q1:1152:THR:OG1	1.93	0.68
17:Q2:110:ILE:HD12	17:Q2:474:VAL:HG21	1.76	0.68
17:Q2:141:THR:CG2	17:Q2:163:GLY:HA3	2.23	0.68
19:R2:633:THR:CG2	19:R2:636:VAL:HG21	2.21	0.68
24:W1:403:ASP:N	24:W1:723:PHE:O	2.25	0.68
25:X1:676:ILE:CD1	26:Y1:1274:ASN:CG	2.62	0.68
25:X2:692:LYS:CG	27:Z2:431:TRP:CE2	2.72	0.68
25:X2:692:LYS:HD2	27:Z2:10:LEU:HB3	1.75	0.68
25:X2:714:PHE:CE2	26:Y2:1316:GLU:HB2	2.28	0.68
25:X2:776:PHE:HE2	26:Y2:1369:PHE:HD1	1.41	0.68
26:Y2:1345:LEU:HD21	26:Y2:1348:LYS:NZ	2.03	0.68
27:Z1:420:ILE:HD12	27:Z1:424:PRO:HD3	1.76	0.68
27:Z1:426:LEU:CD2	27:Z1:439:LEU:HD23	2.24	0.68
1:A2:1332:ARG:HG2	4:D1:905:SER:HB2	1.74	0.68
1:A3:1333:ARG:CA	4:D3:887:ALA:HB2	2.23	0.68
9:I2:922:ASP:OD1	15:O3:186:PHE:O	2.11	0.68
9:I2:1051:LYS:HD3	14:N3:289:PHE:HB2	1.76	0.68
9:I2:1099:ARG:CA	15:O3:268:GLY:O	2.42	0.68
17:Q1:899:ALA:O	17:Q1:902:THR:HG22	1.94	0.68
17:Q2:89:TYR:HD2	17:Q2:90:ILE:CG2	2.07	0.68
17:Q2:718:ILE:HG22	17:Q2:722:PHE:HE1	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:806:GLU:O	17:Q2:809:LYS:HD3	1.93	0.68
17:Q2:922:LEU:CG	19:R2:688:LEU:HB3	2.21	0.68
18:R1:409:LYS:NZ	18:R1:448:ILE:HB	2.08	0.68
20:S2:367:PHE:O	20:S2:369:GLY:N	2.26	0.68
25:X2:773:SER:HB2	25:X2:797:LEU:HD21	1.75	0.68
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CB	2.36	0.68
26:Y1:1410:GLN:N	27:Z1:711:LYS:NZ	2.42	0.68
26:Y2:1235:MET:O	26:Y2:1239:PHE:CE2	2.41	0.68
27:Z1:12:ILE:HD13	27:Z1:54:TYR:HB3	1.76	0.68
27:Z1:179:VAL:HG22	27:Z1:206:PHE:HE2	1.53	0.68
27:Z2:186:GLU:HG2	27:Z2:302:ILE:O	1.94	0.68
27:Z2:416:ASP:HB3	27:Z2:569:LYS:CE	2.17	0.68
1:A2:1203:TYR:C	1:A1:599:ARG:NH2	2.47	0.68
1:A2:1332:ARG:CG	4:D1:905:SER:CB	2.72	0.68
1:A4:520:GLU:HG2	4:D3:1017:THR:HG23	0.70	0.68
6:F1:1807:GLU:O	14:N2:411:GLN:OE1	2.12	0.68
9:I1:908:ARG:C	13:M1:548:LEU:HD21	2.14	0.68
9:I2:911:PRO:HB2	15:O3:197:ARG:HG2	1.76	0.68
9:I2:964:SER:HB2	16:P3:152:LYS:CB	2.24	0.68
9:I2:1030:ARG:CD	13:M3:608:LYS:HB3	2.03	0.68
17:Q1:276:LEU:CB	17:Q1:280:THR:HG23	2.22	0.68
17:Q1:283:VAL:HG21	17:Q1:297:LEU:HD11	1.74	0.68
17:Q1:444:GLU:OE1	17:Q1:508:ASN:CB	2.39	0.68
17:Q1:614:TRP:O	17:Q1:617:THR:HG22	1.94	0.68
17:Q1:615:GLU:HB2	17:Q1:645:ILE:HG12	1.75	0.68
17:Q1:835:PHE:CE1	17:Q1:838:GLU:HG2	2.29	0.68
17:Q1:1016:PHE:HZ	17:Q1:1070:LEU:HD21	1.59	0.68
17:Q2:836:PHE:O	17:Q2:839:PHE:HB3	1.93	0.68
25:X1:665:TRP:CD2	25:X1:669:LEU:HD11	2.29	0.68
25:X1:676:ILE:CD1	26:Y1:1274:ASN:OD1	2.42	0.68
25:X1:714:PHE:CE2	26:Y1:1316:GLU:HB2	2.28	0.68
25:X1:744:ALA:HB1	27:Z1:631:PHE:HE1	1.58	0.68
25:X2:694:ASP:HB3	27:Z2:432:ASN:N	2.09	0.68
26:Y1:1456:LEU:N	26:Y1:1456:LEU:CA	2.57	0.68
26:Y2:1298:TYR:CD2	27:Z2:595:GLN:NE2	2.61	0.68
27:Z1:184:ASP:OD1	27:Z1:184:ASP:O	2.12	0.68
27:Z1:213:PRO:CD	27:Z1:216:LEU:HD23	2.19	0.68
27:Z2:216:LEU:HD21	27:Z2:272:ILE:HD13	1.67	0.68
1:A2:1274:ASP:HA	1:A1:727:ASN:ND2	2.08	0.67
6:F1:143:GLY:C	9:I1:1394:ASN:O	2.31	0.67
7:G1:254:ASN:HD21	15:O2:250:LEU:HB2	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:976:ARG:O	15:O1:177:HIS:CB	2.42	0.67
9:I1:1417:THR:N	14:N1:414:ALA:O	2.27	0.67
17:Q1:382:ARG:HA	17:Q1:512:ILE:HG12	1.76	0.67
17:Q2:390:ILE:HG13	17:Q2:391:THR:N	2.08	0.67
17:Q2:546:ILE:HG12	17:Q2:552:THR:OG1	1.93	0.67
17:Q2:835:PHE:CE1	17:Q2:838:GLU:HG2	2.30	0.67
17:Q2:886:ALA:O	17:Q2:890:GLN:HG2	1.93	0.67
17:Q2:899:ALA:O	17:Q2:902:THR:HG22	1.94	0.67
22:U1:291:ASN:O	25:X1:805:ARG:CZ	2.42	0.67
22:U2:220:TRP:HA	22:U2:231:ILE:HG22	1.76	0.67
27:Z1:179:VAL:HG11	27:Z1:198:ASN:HD21	1.60	0.67
27:Z1:326:LEU:HB2	27:Z1:352:GLU:OE2	1.94	0.67
27:Z1:328:PHE:CD2	27:Z1:349:VAL:HB	2.29	0.67
27:Z2:326:LEU:HB2	27:Z2:352:GLU:OE2	1.94	0.67
27:Z2:328:PHE:CD2	27:Z2:349:VAL:HB	2.29	0.67
27:Z2:420:ILE:HD12	27:Z2:424:PRO:HD3	1.76	0.67
1:A1:827:ILE:CD1	1:A1:849:SER:OG	2.41	0.67
6:F1:134:ASP:HB3	9:I1:1388:GLU:OE1	1.94	0.67
6:F2:137:ASN:O	9:I2:1391:THR:HG21	1.94	0.67
9:I1:910:LYS:CA	13:M1:548:LEU:HD13	2.22	0.67
9:I1:1255:HIS:NE2	15:O1:254:ARG:CG	2.57	0.67
9:I2:888:GLU:HB3	13:M3:591:ASP:O	1.94	0.67
9:I2:1099:ARG:HH12	13:M3:609:GLY:CA	2.07	0.67
17:Q1:527:ILE:H	17:Q1:527:ILE:HD13	1.57	0.67
17:Q2:272:ASN:HD22	17:Q2:272:ASN:H	1.41	0.67
17:Q2:426:ILE:HD12	17:Q2:443:TRP:HH2	1.57	0.67
17:Q2:600:PHE:CZ	17:Q2:675:LEU:HD13	2.30	0.67
17:Q2:647:LYS:HA	17:Q2:647:LYS:HE3	1.75	0.67
17:Q2:849:GLU:O	17:Q2:852:ILE:HG22	1.94	0.67
17:Q2:928:LYS:HE2	19:R2:695:ALA:HA	1.75	0.67
22:U1:220:TRP:HA	22:U1:231:ILE:HG22	1.76	0.67
22:U1:289:GLN:CD	25:X1:794:ILE:CA	2.43	0.67
25:X1:742:GLN:NE2	25:X1:743:GLN:CG	2.57	0.67
26:Y1:1270:LEU:HD23	27:Z1:564:LEU:HD21	1.72	0.67
26:Y1:1277:LYS:CE	27:Z1:571:ILE:CG1	2.61	0.67
26:Y2:1371:VAL:C	26:Y2:1372:LYS:CA	2.62	0.67
26:Y2:1399:ILE:HD13	27:Z2:697:CYS:HB3	1.75	0.67
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:HA	2.06	0.67
27:Z2:177:ALA:O	27:Z2:178:ARG:HG2	1.94	0.67
27:Z2:252:GLN:OE1	27:Z2:334:SER:CB	2.41	0.67
27:Z2:383:GLN:HG3	27:Z2:417:ILE:HG13	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:1264:ARG:O	15:O2:251:ILE:O	2.12	0.67
9:I1:918:SER:HA	15:O1:194:GLU:N	2.09	0.67
17:Q1:506:LYS:CE	17:Q1:538:ILE:HD11	2.24	0.67
17:Q1:542:ASN:ND2	17:Q1:564:PHE:HB2	2.08	0.67
17:Q1:827:THR:CG2	17:Q1:830:SER:HB2	2.24	0.67
17:Q2:111:HIS:CD2	17:Q2:514:PHE:HB2	2.29	0.67
17:Q2:171:LYS:HD2	17:Q2:172:ALA:N	2.10	0.67
17:Q2:557:LEU:O	17:Q2:560:ARG:HG2	1.94	0.67
17:Q2:743:LEU:O	17:Q2:746:VAL:HG12	1.95	0.67
17:Q2:1021:LEU:O	17:Q2:1025:ASP:HB2	1.95	0.67
19:R2:617:ILE:HG13	19:R2:670:LYS:CG	2.24	0.67
22:U1:208:LEU:CD2	27:Z1:660:SER:OG	2.41	0.67
22:U1:243:PHE:CE2	27:Z1:660:SER:HG	1.51	0.67
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:HA	2.05	0.67
27:Z1:128:LYS:HE3	27:Z1:147:GLU:HB3	1.75	0.67
27:Z1:227:LEU:HD21	27:Z1:256:VAL:CG1	1.85	0.67
27:Z1:263:TRP:CZ2	27:Z1:268:GLY:HA2	2.30	0.67
27:Z1:531:ILE:HG23	27:Z2:544:THR:CG2	2.24	0.67
27:Z1:642:ASN:C	27:Z1:644:PHE:N	2.47	0.67
27:Z2:208:PHE:CE1	27:Z2:279:ALA:HB3	2.28	0.67
9:I1:912:VAL:HB	13:M1:542:ASP:OD1	1.93	0.67
9:I1:918:SER:N	15:O1:193:ALA:N	2.42	0.67
9:I2:922:ASP:OD1	15:O3:186:PHE:CB	2.42	0.67
9:I2:966:TRP:CA	15:O3:178:ASP:OD1	2.42	0.67
9:I2:1099:ARG:O	15:O3:272:SER:CA	2.42	0.67
9:I2:1255:HIS:CE1	14:N3:404:GLU:O	2.47	0.67
13:M3:476:THR:HG21	14:N4:323:ARG:HD2	1.76	0.67
17:Q1:999:LEU:HD13	17:Q1:1003:VAL:HG13	1.76	0.67
17:Q1:1000:SER:O	17:Q1:1003:VAL:HG22	1.94	0.67
17:Q2:594:LEU:HD23	17:Q2:639:PRO:CD	2.19	0.67
17:Q2:756:PHE:HZ	17:Q2:760:ILE:HD12	1.57	0.67
17:Q2:1078:LEU:HD21	17:Q2:1155:VAL:CG1	2.16	0.67
18:R1:617:ILE:HG13	18:R1:670:LYS:CG	2.24	0.67
20:S1:367:PHE:O	20:S1:369:GLY:N	2.26	0.67
22:U1:241:ARG:CG	27:Z1:656:SER:HB2	2.23	0.67
25:X1:821:ILE:CG2	26:Y1:1409:LEU:HD22	2.10	0.67
26:Y2:1230:GLU:HG2	26:Y2:1233:ARG:HH21	0.59	0.67
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:HB2	0.58	0.67
27:Z1:282:GLN:OE1	27:Z1:333:MET:HE3	1.94	0.67
27:Z1:708:PHE:O	27:Z1:712:THR:HG23	1.94	0.67
27:Z2:263:TRP:CZ2	27:Z2:268:GLY:HA2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:424:PRO:CB	27:Z2:439:LEU:HD21	2.25	0.67
1:A2:873:PRO:HB3	4:D3:535:ALA:HB1	1.76	0.67
6:F1:139:GLN:NE2	9:I1:1340:LEU:HD13	2.03	0.67
9:I1:1311:LEU:HD21	15:O1:266:GLN:HB2	0.69	0.67
9:I2:754:ARG:HH21	13:M3:573:ARG:HH12	1.41	0.67
9:I2:1109:LEU:HB3	15:O3:284:LYS:HZ3	1.54	0.67
17:Q1:110:ILE:HD12	17:Q1:474:VAL:HG21	1.76	0.67
17:Q1:515:ASN:OD1	17:Q1:516:LEU:HD23	1.95	0.67
17:Q2:934:VAL:HG11	17:Q2:936:LYS:HG3	1.76	0.67
22:U1:209:PRO:HD3	27:Z1:663:THR:H	1.57	0.67
25:X1:694:ASP:OD2	27:Z1:580:LYS:NZ	2.17	0.67
25:X2:643:LYS:O	25:X2:647:GLN:HG3	1.95	0.67
25:X2:684:VAL:O	27:Z2:447:PHE:CD1	2.46	0.67
26:Y2:1333:ASP:OD1	27:Z1:92:GLU:O	2.11	0.67
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:H	1.35	0.67
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:HD21	2.27	0.67
27:Z1:68:THR:O	27:Z1:84:ASN:ND2	2.28	0.67
27:Z2:359:GLU:CD	27:Z2:361:LYS:CE	2.56	0.67
6:F1:159:ALA:O	9:I1:1335:LYS:CE	2.43	0.67
9:I1:908:ARG:NE	13:M1:552:TYR:HA	1.98	0.67
9:I2:917:TYR:HE2	15:O3:190:ARG:HH11	0.82	0.67
9:I2:921:GLU:CD	16:P3:157:GLU:OE2	2.32	0.67
17:Q1:390:ILE:HG13	17:Q1:391:THR:N	2.08	0.67
17:Q1:600:PHE:CZ	17:Q1:675:LEU:HD13	2.29	0.67
17:Q1:836:PHE:O	17:Q1:839:PHE:HB3	1.93	0.67
17:Q1:925:ASN:O	17:Q1:929:LEU:HD13	1.94	0.67
17:Q2:235:ASN:HB2	17:Q2:237:MET:O	1.94	0.67
17:Q2:858:ASN:ND2	19:R2:682:LYS:HE3	2.09	0.67
17:Q2:1000:SER:O	17:Q2:1003:VAL:HG22	1.94	0.67
18:R1:619:LYS:HE3	18:R1:623:PHE:CE2	2.25	0.67
20:S1:483:GLU:CD	20:S1:514:ARG:HH22	1.96	0.67
20:S1:550:GLY:O	20:S1:560:LEU:C	2.33	0.67
22:U1:245:ILE:HG13	27:Z1:657:TYR:CZ	2.29	0.67
25:X2:710:PHE:CZ	26:Y2:1313:ALA:HB2	2.29	0.67
25:X2:811:SER:HG	27:Z2:701:LEU:CD1	1.85	0.67
26:Y2:1235:MET:C	26:Y2:1239:PHE:CD2	2.65	0.67
26:Y2:1365:ILE:CG2	26:Y2:1386:ALA:HB3	2.25	0.67
26:Y2:1410:GLN:H	27:Z2:711:LYS:CE	2.06	0.67
26:Y2:1443:MET:HE3	27:Z2:332:GLU:CG	2.23	0.67
27:Z1:119:GLU:CA	27:Z1:120:GLU:CB	2.68	0.67
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:CG	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:280:LYS:HE2	27:Z1:338:ASP:HA	1.75	0.67
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CG	2.78	0.67
1:A2:1091:VAL:CA	4:D1:1104:GLU:HG2	2.25	0.67
1:A3:1220:PRO:O	1:A4:599:ARG:NH2	2.28	0.67
1:A3:1271:ILE:HG13	1:A4:730:THR:CG2	2.18	0.67
6:F1:139:GLN:NE2	9:I1:1336:MET:CG	2.57	0.67
6:F1:267:GLU:CG	11:K1:638:PRO:HD2	2.25	0.67
9:I1:357:ASP:OD1	9:I1:360:ARG:NH2	2.28	0.67
9:I1:1106:LYS:HB3	13:M1:613:ASP:HB3	1.75	0.67
9:I2:961:ARG:CD	16:P3:155:GLU:C	2.63	0.67
9:I2:982:GLN:CD	15:O3:179:LEU:CD1	2.62	0.67
17:Q1:699:MET:HB3	17:Q1:709:PHE:CE2	2.30	0.67
17:Q2:516:LEU:HD13	17:Q2:570:PHE:HE1	1.60	0.67
17:Q2:827:THR:CG2	17:Q2:830:SER:HB2	2.24	0.67
17:Q2:999:LEU:HD13	17:Q2:1003:VAL:HG13	1.76	0.67
17:Q2:1078:LEU:CD2	17:Q2:1155:VAL:HG13	2.17	0.67
18:R1:409:LYS:NZ	18:R1:448:ILE:CB	2.52	0.67
19:R2:711:LEU:HG	19:R2:714:TYR:HE2	1.59	0.67
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:HB2	0.58	0.67
26:Y1:1399:ILE:HD13	27:Z1:697:CYS:HB3	1.75	0.67
26:Y2:1310:VAL:CG1	26:Y2:1314:LYS:HE3	2.25	0.67
26:Y2:1372:LYS:CD	27:Z2:679:GLU:OE1	2.36	0.67
27:Z1:26:ILE:HG21	27:Z1:440:MET:HG3	1.74	0.67
27:Z1:179:VAL:HG21	27:Z1:206:PHE:HD2	1.58	0.67
27:Z2:401:ASP:O	27:Z2:404:PRO:HD2	1.94	0.67
1:A3:1327:VAL:HB	4:D3:873:GLN:CA	2.24	0.67
6:F1:1053:LEU:HD23	9:I1:1388:GLU:CG	2.25	0.67
6:F1:1053:LEU:CG	9:I1:1388:GLU:HG2	2.24	0.67
6:F1:1806:ARG:C	14:N2:412:ASN:OD1	2.20	0.67
9:I1:961:ARG:HD2	15:O1:186:PHE:O	1.95	0.67
9:I2:1102:GLN:CG	15:O3:274:GLY:N	2.57	0.67
17:Q1:235:ASN:HB2	17:Q1:237:MET:O	1.95	0.67
17:Q1:630:THR:HG23	17:Q1:631:THR:H	1.60	0.67
17:Q1:742:LEU:HA	17:Q1:745:ILE:CD1	2.13	0.67
17:Q2:171:LYS:NZ	17:Q2:173:ILE:HB	2.09	0.67
17:Q2:629:LEU:HD21	17:Q2:632:LYS:HB2	1.77	0.67
19:R2:612:ASN:O	19:R2:615:THR:HG22	1.94	0.67
25:X2:662:ILE:CD1	27:Z1:541:LYS:HZ3	2.06	0.67
25:X2:685:MET:CE	27:Z2:13:PHE:HE2	2.05	0.67
25:X2:744:ALA:HB1	27:Z2:631:PHE:HE1	1.58	0.67
25:X2:791:ILE:CA	25:X2:794:ILE:HG12	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:326:LEU:CB	27:Z1:352:GLU:OE2	2.43	0.67
27:Z1:329:LYS:HE3	27:Z1:333:MET:CG	2.25	0.67
27:Z2:93:VAL:C	27:Z2:94:PRO:HD2	1.78	0.67
27:Z2:131:LEU:HD12	27:Z2:187:PHE:CZ	2.30	0.67
27:Z2:179:VAL:HG11	27:Z2:198:ASN:ND2	2.08	0.67
27:Z2:317:VAL:HG23	27:Z2:319:PHE:CE2	2.30	0.67
27:Z2:642:ASN:C	27:Z2:644:PHE:N	2.47	0.67
1:A3:937:ASP:OD2	9:I2:815:ILE:CG2	2.42	0.67
1:A3:1396:GLY:O	4:D3:869:THR:OG1	2.13	0.67
9:I1:918:SER:O	15:O1:190:ARG:HG2	1.93	0.67
9:I1:977:ASN:ND2	15:O1:174:LEU:C	2.47	0.67
9:I1:978:LYS:HZ2	15:O1:184:ARG:HE	1.41	0.67
9:I2:976:ARG:NE	15:O3:174:LEU:CD1	2.50	0.67
9:I2:1103:LEU:HD22	13:M3:614:ASP:HB2	1.77	0.67
17:Q1:527:ILE:HD11	17:Q1:530:ASP:HB3	1.77	0.67
17:Q2:351:ILE:HB	17:Q2:362:ILE:HD11	1.77	0.67
17:Q2:506:LYS:CE	17:Q2:538:ILE:HD11	2.24	0.67
17:Q2:740:GLU:CG	17:Q2:744:LYS:HE2	2.25	0.67
17:Q2:868:HIS:O	17:Q2:872:ILE:HG13	1.92	0.67
18:R1:624:SER:HB2	18:R1:667:LEU:HD23	1.75	0.67
18:R1:701:ILE:CG2	18:R1:705:PHE:HE1	2.08	0.67
19:R2:617:ILE:HG13	19:R2:670:LYS:CD	2.25	0.67
24:W1:335:VAL:HG13	24:W1:352:ILE:HB	1.77	0.67
25:X1:721:LEU:HD22	26:Y1:1319:PHE:CD2	2.28	0.67
25:X1:725:VAL:HG21	27:Z1:612:ILE:CG2	2.22	0.67
25:X2:650:GLU:O	25:X2:654:HIS:ND1	2.27	0.67
25:X2:658:TYR:CE2	25:X2:662:ILE:CD1	2.78	0.67
26:Y2:1337:HIS:CD2	27:Z1:111:ILE:HD12	2.30	0.67
27:Z1:319:PHE:HZ	27:Z1:325:ILE:HD12	1.59	0.67
27:Z2:326:LEU:CB	27:Z2:352:GLU:OE2	2.43	0.67
27:Z2:426:LEU:CD2	27:Z2:439:LEU:HD23	2.24	0.67
6:F1:138:ILE:N	9:I1:1388:GLU:C	2.38	0.67
6:F2:1808:VAL:O	6:F2:1833:ARG:NH1	2.28	0.67
9:I2:909:ARG:HB3	13:M3:580:LYS:NZ	2.08	0.67
9:I2:915:ALA:O	16:P3:158:THR:HG22	1.93	0.67
9:I2:1254:VAL:N	14:N3:409:ALA:N	2.39	0.67
9:I2:1426:SER:OG	10:J2:263:MET:SD	2.45	0.67
17:Q1:171:LYS:HD2	17:Q1:172:ALA:N	2.10	0.67
17:Q1:533:LEU:O	17:Q1:533:LEU:HD23	1.94	0.67
17:Q1:756:PHE:HZ	17:Q1:760:ILE:HD12	1.58	0.67
17:Q1:849:GLU:O	17:Q1:852:ILE:HG22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:934:VAL:HG11	17:Q1:936:LYS:HG3	1.76	0.67
17:Q1:938:ASN:ND2	17:Q1:939:LEU:HD12	2.10	0.67
17:Q1:960:ILE:HA	17:Q1:963:LYS:HE3	1.76	0.67
17:Q2:59:LYS:O	17:Q2:70:LYS:HG3	1.94	0.67
17:Q2:630:THR:HG23	17:Q2:631:THR:H	1.60	0.67
17:Q2:703:THR:HA	17:Q2:707:PRO:CB	2.25	0.67
18:R1:438:GLU:HG3	18:R1:439:SER:N	2.10	0.67
18:R1:664:LEU:HD13	18:R1:690:PHE:HE1	1.59	0.67
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CE1	2.26	0.67
26:Y2:1449:ILE:HG23	26:Y2:1453:PHE:CZ	2.30	0.67
27:Z1:46:TYR:CD1	27:Z1:46:TYR:C	2.67	0.67
27:Z1:420:ILE:CD1	27:Z1:424:PRO:HD3	2.25	0.67
27:Z2:179:VAL:HG11	27:Z2:198:ASN:HD21	1.59	0.67
1:A3:1330:VAL:CG2	4:D3:880:ASP:OD2	2.42	0.66
1:A4:442:ARG:NH2	4:D3:1022:PRO:N	2.40	0.66
7:G1:247:ASP:N	15:O2:247:TRP:CH2	2.63	0.66
9:I1:981:VAL:CG1	15:O1:176:ARG:CG	2.73	0.66
9:I2:357:ASP:OD1	9:I2:360:ARG:NH2	2.28	0.66
17:Q1:59:LYS:O	17:Q1:70:LYS:HG3	1.94	0.66
17:Q2:509:ALA:HA	17:Q2:516:LEU:CD1	2.12	0.66
17:Q2:515:ASN:OD1	17:Q2:516:LEU:HD23	1.95	0.66
17:Q2:520:ILE:HD13	17:Q2:574:ASN:O	1.94	0.66
17:Q2:938:ASN:ND2	17:Q2:939:LEU:HD12	2.10	0.66
19:R2:531:ILE:HG23	19:R2:580:PHE:HE1	1.58	0.66
19:R2:581:LEU:HD12	19:R2:584:ILE:CD1	2.23	0.66
22:U1:161:PRO:HB2	22:U1:164:HIS:CD2	2.30	0.66
22:U1:248:LYS:CG	25:X1:805:ARG:C	2.63	0.66
25:X1:643:LYS:O	25:X1:647:GLN:HG3	1.94	0.66
26:Y2:1368:LEU:O	26:Y2:1372:LYS:N	2.28	0.66
27:Z1:208:PHE:CE1	27:Z1:279:ALA:HB3	2.28	0.66
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CG	2.78	0.66
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CD1	2.26	0.66
27:Z1:288:ASN:HD22	27:Z1:289:PRO:N	1.92	0.66
27:Z2:179:VAL:HG21	27:Z2:206:PHE:HD2	1.58	0.66
27:Z2:241:THR:CG2	27:Z2:246:LYS:HE2	2.25	0.66
27:Z2:297:TYR:CG	27:Z2:321:ASP:OD2	2.44	0.66
9:I1:843:GLU:HG2	13:M1:538:THR:OG1	1.95	0.66
9:I2:900:ARG:NE	15:O3:235:ASN:CB	2.35	0.66
9:I2:1030:ARG:H	13:M3:613:ASP:N	1.94	0.66
17:Q1:1021:LEU:O	17:Q1:1025:ASP:HB2	1.95	0.66
17:Q1:1065:VAL:HA	17:Q1:1070:LEU:CD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:527:ILE:HD11	17:Q2:530:ASP:HB3	1.77	0.66
17:Q2:699:MET:HB3	17:Q2:709:PHE:CE2	2.30	0.66
18:R1:612:ASN:O	18:R1:615:THR:HG22	1.94	0.66
26:Y1:1335:SER:HB2	26:Y1:1339:PHE:CE1	2.29	0.66
26:Y2:1340:ARG:HH21	27:Z1:157:LEU:CD2	1.87	0.66
26:Y2:1435:LYS:O	26:Y2:1439:VAL:HG23	1.95	0.66
27:Z1:424:PRO:CB	27:Z1:439:LEU:HD21	2.24	0.66
27:Z2:288:ASN:HD22	27:Z2:289:PRO:N	1.92	0.66
1:A2:1277:TRP:CD1	1:A1:642:ARG:NH1	2.64	0.66
1:A3:1224:PRO:CD	1:A4:648:TYR:CE1	2.73	0.66
1:A3:1332:ARG:NE	4:D3:899:THR:CG2	2.53	0.66
7:G2:250:THR:H	15:O4:254:ARG:CD	1.98	0.66
9:I1:909:ARG:HE	15:O1:205:ARG:HH22	1.37	0.66
9:I2:1103:LEU:HG	13:M3:611:LYS:HE3	1.76	0.66
9:I2:1305:LEU:HD22	15:O3:264:ILE:HG12	0.67	0.66
10:J1:251:TYR:CB	15:O1:273:ASP:OD1	2.43	0.66
17:Q1:557:LEU:O	17:Q1:560:ARG:HG2	1.95	0.66
17:Q1:666:LYS:O	17:Q1:669:VAL:HG22	1.96	0.66
17:Q2:615:GLU:HB2	17:Q2:645:ILE:HG12	1.75	0.66
17:Q2:715:LEU:HD21	17:Q2:751:TYR:CE1	2.28	0.66
18:R1:531:ILE:HG23	18:R1:580:PHE:HE1	1.58	0.66
19:R2:614:PRO:CA	19:R2:617:ILE:HG22	2.23	0.66
19:R2:621:GLN:HB3	19:R2:670:LYS:HZ1	1.58	0.66
24:W2:335:VAL:HG13	24:W2:352:ILE:HB	1.77	0.66
25:X1:752:ASP:OD1	26:Y1:1345:LEU:HD12	1.95	0.66
25:X1:755:LEU:HD13	26:Y1:1349:LEU:CG	2.25	0.66
25:X2:707:LEU:HD11	26:Y2:1306:ILE:HG12	0.76	0.66
26:Y2:1295:VAL:CA	27:Z2:588:TRP:CH2	2.68	0.66
26:Y2:1321:MET:HB3	27:Z1:51:ASP:CB	2.25	0.66
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HZ3	1.91	0.66
27:Z1:126:SER:H	27:Z1:147:GLU:CD	1.94	0.66
27:Z1:182:ILE:HD13	27:Z1:198:ASN:OD1	1.96	0.66
27:Z1:363:LEU:CD1	27:Z1:373:LEU:CD2	2.32	0.66
27:Z1:709:THR:O	27:Z1:709:THR:HG22	1.95	0.66
27:Z2:608:LYS:HA	27:Z2:611:GLN:HG2	1.75	0.66
1:A2:1284:ASN:HD22	1:A1:635:ARG:CB	2.09	0.66
6:F2:143:GLY:HA2	9:I2:1394:ASN:CG	2.15	0.66
7:G1:256:GLN:H	15:O2:245:GLU:HB3	1.60	0.66
9:I1:1584:LEU:HD21	10:J1:275:PHE:CD1	2.30	0.66
9:I2:888:GLU:N	13:M3:594:LYS:CE	2.56	0.66
9:I2:1048:GLU:CD	14:N3:293:LYS:CD	2.63	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1109:LEU:CB	15:O3:284:LYS:HZ3	2.03	0.66
9:I2:1308:THR:CG2	14:N3:414:ALA:HA	2.25	0.66
17:Q1:647:LYS:HA	17:Q1:647:LYS:HE3	1.76	0.66
17:Q2:443:TRP:CZ3	17:Q2:479:VAL:HG11	2.30	0.66
17:Q2:666:LYS:O	17:Q2:669:VAL:HG22	1.96	0.66
18:R1:433:ALA:CB	18:R1:453:GLU:HB2	2.26	0.66
18:R1:435:PHE:CA	18:R1:448:ILE:HG12	2.25	0.66
18:R1:581:LEU:HD12	18:R1:584:ILE:CD1	2.23	0.66
18:R1:621:GLN:HB3	18:R1:670:LYS:HZ1	1.58	0.66
18:R1:721:THR:HA	18:R1:724:LEU:CD1	2.25	0.66
20:S1:209:PRO:HB3	20:S1:532:LYS:HB2	1.78	0.66
22:U1:243:PHE:HE2	27:Z1:660:SER:N	1.89	0.66
25:X2:662:ILE:HD12	27:Z2:549:ILE:HG23	1.69	0.66
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CD	2.70	0.66
27:Z1:15:ALA:HB1	27:Z1:16:SER:N	2.09	0.66
27:Z1:125:SER:O	27:Z1:125:SER:OG	2.13	0.66
27:Z1:326:LEU:HD23	27:Z1:410:PHE:HZ	1.61	0.66
27:Z1:358:ARG:CZ	27:Z1:382:GLN:HE22	2.02	0.66
27:Z2:26:ILE:O	27:Z2:26:ILE:HG23	1.95	0.66
27:Z2:280:LYS:HE3	27:Z2:340:ASP:OD1	1.95	0.66
1:A2:1277:TRP:HB2	1:A1:642:ARG:NH2	2.08	0.66
1:A2:1301:ASP:OD2	1:A2:1361:ARG:NH1	2.29	0.66
6:F1:1808:VAL:O	6:F1:1833:ARG:NH1	2.28	0.66
9:I1:966:TRP:HB2	15:O1:179:LEU:N	2.10	0.66
9:I1:1050:SER:OG	14:N1:293:LYS:O	2.02	0.66
9:I2:896:PRO:HD3	13:M3:588:MET:CA	2.25	0.66
9:I2:916:ALA:CB	15:O3:193:ALA:N	2.58	0.66
9:I2:1103:LEU:CD2	13:M3:614:ASP:OD1	2.37	0.66
17:Q1:520:ILE:HD13	17:Q1:574:ASN:O	1.94	0.66
17:Q1:629:LEU:HD21	17:Q1:632:LYS:HB2	1.77	0.66
17:Q1:657:LEU:HD23	17:Q1:657:LEU:H	1.61	0.66
17:Q1:1091:THR:HG23	17:Q1:1094:TYR:N	2.01	0.66
17:Q2:501:ALA:O	17:Q2:504:PHE:HB3	1.95	0.66
19:R2:8:GLN:C	19:R2:10:GLU:H	1.99	0.66
19:R2:533:LEU:HD23	19:R2:549:PHE:CD1	2.31	0.66
19:R2:721:THR:HA	19:R2:724:LEU:CD1	2.25	0.66
22:U1:209:PRO:HD2	27:Z1:660:SER:C	2.09	0.66
22:U2:161:PRO:HB2	22:U2:164:HIS:CD2	2.30	0.66
25:X1:668:VAL:CG1	26:Y1:1271:ASN:HD21	2.07	0.66
25:X1:751:LEU:CD1	27:Z1:638:ILE:HG12	2.19	0.66
25:X1:811:SER:O	25:X1:815:GLU:HG3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1298:TYR:H	27:Z1:588:TRP:HH2	1.42	0.66
26:Y1:1449:ILE:HG23	26:Y1:1453:PHE:CZ	2.30	0.66
26:Y2:1334:LEU:CD2	27:Z1:108:ALA:N	2.49	0.66
26:Y2:1336:THR:O	26:Y2:1340:ARG:HG3	1.96	0.66
26:Y2:1370:THR:HG22	27:Z2:662:LEU:CD2	2.14	0.66
27:Z1:280:LYS:HE3	27:Z1:340:ASP:OD1	1.96	0.66
27:Z1:389:TRP:HZ3	27:Z1:393:LEU:HD12	1.50	0.66
27:Z1:634:ILE:O	27:Z1:638:ILE:HG13	1.95	0.66
27:Z2:329:LYS:HE3	27:Z2:333:MET:CG	2.25	0.66
1:A2:1201:ARG:CZ	1:A1:644:ALA:O	2.43	0.66
1:A4:928:GLY:HA2	4:D3:807:GLU:OE1	1.95	0.66
7:G1:253:SER:N	15:O2:243:LEU:CD2	2.58	0.66
9:I1:1038:ILE:HD13	15:O1:179:LEU:CD1	2.20	0.66
9:I2:896:PRO:HG3	13:M3:588:MET:CB	2.18	0.66
9:I2:899:LEU:N	13:M3:584:GLN:NE2	2.40	0.66
9:I2:911:PRO:HB2	15:O3:197:ARG:CG	2.25	0.66
17:Q1:104:LYS:HG2	17:Q1:122:VAL:HG22	1.76	0.66
17:Q1:228:ILE:HG12	17:Q1:249:ASN:HB3	1.78	0.66
17:Q2:866:GLN:HA	17:Q2:870:VAL:HG21	1.77	0.66
17:Q2:1065:VAL:HA	17:Q2:1070:LEU:CD2	2.25	0.66
22:U1:209:PRO:CD	27:Z1:661:GLU:N	2.54	0.66
22:U2:306:GLU:N	22:U2:324:ASP:OD2	2.27	0.66
25:X2:811:SER:O	25:X2:815:GLU:HG3	1.96	0.66
26:Y1:1435:LYS:HZ1	27:Z1:225:LEU:CD2	2.05	0.66
26:Y2:1298:TYR:H	27:Z2:588:TRP:HH2	1.43	0.66
26:Y2:1333:ASP:HA	27:Z1:92:GLU:C	2.16	0.66
26:Y2:1410:GLN:N	27:Z2:711:LYS:NZ	2.42	0.66
27:Z1:410:PHE:O	27:Z1:410:PHE:HD2	1.76	0.66
27:Z1:431:TRP:HD1	27:Z1:436:ASN:ND2	1.93	0.66
27:Z1:534:GLU:HB3	27:Z2:545:LEU:CA	2.20	0.66
27:Z1:541:LYS:CA	27:Z2:554:HIS:N	2.59	0.66
27:Z1:611:GLN:C	27:Z1:611:GLN:CA	2.64	0.66
27:Z1:642:ASN:ND2	27:Z1:646:HIS:ND1	2.44	0.66
27:Z2:136:SER:C	27:Z2:217:LEU:CG	2.64	0.66
27:Z2:634:ILE:CG2	27:Z2:638:ILE:CD1	2.74	0.66
27:Z2:708:PHE:O	27:Z2:712:THR:HG23	1.94	0.66
1:A1:1301:ASP:OD2	1:A1:1361:ARG:NH1	2.29	0.66
1:A4:581:LYS:NZ	4:D3:1031:ARG:NH2	2.43	0.66
1:A4:1301:ASP:OD2	1:A4:1361:ARG:NH1	2.29	0.66
9:I1:905:ALA:H	13:M1:573:ARG:HD3	1.59	0.66
9:I1:977:ASN:HB3	15:O1:172:ALA:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1048:GLU:OE1	15:O1:171:ASP:HB2	1.96	0.66
9:I1:1049:LEU:H	15:O1:170:LEU:C	1.99	0.66
9:I1:1421:ARG:NH2	9:I1:1482:ASP:OD1	2.29	0.66
9:I2:960:SER:CB	16:P3:154:ALA:HB3	2.24	0.66
17:Q1:501:ALA:O	17:Q1:504:PHE:HB3	1.95	0.66
17:Q1:516:LEU:HD13	17:Q1:570:PHE:HE1	1.60	0.66
17:Q1:866:GLN:HA	17:Q1:870:VAL:HG21	1.77	0.66
17:Q2:520:ILE:CD1	17:Q2:574:ASN:HB3	2.25	0.66
17:Q2:527:ILE:O	17:Q2:531:LEU:HD13	1.96	0.66
22:U1:288:LEU:HD11	25:X1:792:GLN:HA	1.77	0.66
25:X2:688:HIS:CD2	27:Z2:445:LEU:HD12	2.30	0.66
26:Y1:1298:TYR:HB2	27:Z1:588:TRP:CH2	2.31	0.66
26:Y1:1336:THR:O	26:Y1:1340:ARG:HG3	1.96	0.66
27:Z1:26:ILE:O	27:Z1:26:ILE:HG23	1.96	0.66
27:Z1:189:LYS:O	27:Z1:311:GLN:NE2	2.18	0.66
27:Z1:401:ASP:O	27:Z2:262:ASN:CA	2.16	0.66
27:Z2:128:LYS:HE3	27:Z2:147:GLU:HB3	1.75	0.66
27:Z2:352:GLU:O	27:Z2:352:GLU:CG	2.41	0.66
1:A3:1301:ASP:OD2	1:A3:1361:ARG:NH1	2.29	0.66
1:A4:1027:HIS:HE1	4:D3:478:ALA:HB3	1.53	0.66
9:I1:977:ASN:HB3	15:O1:175:SER:N	2.10	0.66
9:I2:959:SER:O	16:P3:151:LYS:HE2	1.95	0.66
9:I2:963:LEU:HD12	16:P3:148:ALA:C	2.17	0.66
9:I2:1030:ARG:CB	13:M3:612:PRO:HA	2.26	0.66
9:I2:1584:LEU:HD21	10:J2:275:PHE:CD1	2.30	0.66
10:J1:252:LEU:HD13	15:O1:273:ASP:OD2	1.91	0.66
17:Q1:740:GLU:CG	17:Q1:744:LYS:HE2	2.25	0.66
17:Q1:743:LEU:O	17:Q1:746:VAL:HG12	1.95	0.66
17:Q2:228:ILE:HG12	17:Q2:249:ASN:HB3	1.78	0.66
17:Q2:929:LEU:HD11	19:R2:691:THR:O	1.96	0.66
17:Q2:1091:THR:HG23	17:Q2:1094:TYR:N	2.01	0.66
18:R1:533:LEU:HD23	18:R1:549:PHE:CD1	2.30	0.66
19:R2:242:LEU:HD22	20:S2:305:VAL:HG22	1.78	0.66
19:R2:684:ILE:HD13	19:R2:722:ALA:CA	2.22	0.66
25:X1:799:SER:OG	26:Y1:1370:THR:O	2.14	0.66
25:X2:668:VAL:CG1	26:Y2:1271:ASN:HD21	2.07	0.66
25:X2:752:ASP:OD1	26:Y2:1345:LEU:HD12	1.95	0.66
25:X2:790:ASN:O	25:X2:794:ILE:HG23	1.96	0.66
26:Y1:1228:LEU:HD13	27:Z1:539:ILE:O	1.95	0.66
26:Y2:1122:ILE:O	26:Y2:1122:ILE:HG13	1.94	0.66
27:Z1:27:PHE:HE2	27:Z1:36:VAL:HG22	1.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:125:SER:O	27:Z2:125:SER:OG	2.14	0.66
27:Z2:420:ILE:CD1	27:Z2:424:PRO:HD3	2.25	0.66
9:I1:1050:SER:CB	14:N1:293:LYS:HA	2.23	0.66
17:Q1:272:ASN:HD22	17:Q1:272:ASN:H	1.41	0.66
17:Q1:443:TRP:CZ3	17:Q1:479:VAL:HG11	2.30	0.66
17:Q1:527:ILE:O	17:Q1:531:LEU:HD13	1.96	0.66
17:Q1:756:PHE:CE2	17:Q1:760:ILE:HD12	2.31	0.66
17:Q2:960:ILE:HA	17:Q2:963:LYS:HE3	1.76	0.66
17:Q2:999:LEU:HD21	17:Q2:1021:LEU:HB3	1.77	0.66
25:X1:755:LEU:CD1	26:Y1:1349:LEU:CD1	2.73	0.66
26:Y1:1229:MET:O	26:Y1:1233:ARG:HG3	1.96	0.66
26:Y1:1358:HIS:NE2	26:Y1:1362:LEU:CD1	2.25	0.66
26:Y1:1410:GLN:CA	27:Z1:711:LYS:CE	2.71	0.66
27:Z1:399:GLU:CD	27:Z2:263:TRP:CE3	2.68	0.66
27:Z2:68:THR:O	27:Z2:84:ASN:ND2	2.28	0.66
1:A2:1204:TRP:CD1	1:A1:599:ARG:N	2.64	0.66
1:A4:1094:ILE:HG22	4:D3:675:LEU:HD21	1.74	0.66
9:I1:900:ARG:HB3	13:M1:580:LYS:CB	2.12	0.66
9:I1:924:ILE:H	15:O1:187:ASN:HD21	0.67	0.66
9:I1:1106:LYS:HD3	13:M1:613:ASP:HB3	1.78	0.66
9:I2:888:GLU:CD	13:M3:597:LYS:HB2	2.10	0.66
17:Q1:960:ILE:HA	17:Q1:963:LYS:CE	2.26	0.66
17:Q1:999:LEU:HD21	17:Q1:1021:LEU:HB3	1.77	0.66
17:Q1:1009:LEU:HD12	17:Q1:1014:SER:OG	1.96	0.66
18:R1:617:ILE:HG13	18:R1:670:LYS:CD	2.25	0.66
19:R2:588:GLU:O	19:R2:591:ILE:HG22	1.96	0.66
19:R2:619:LYS:HE3	19:R2:623:PHE:CE2	2.26	0.66
24:W1:55:GLU:HB2	24:W1:74:SER:HA	1.78	0.66
25:X2:823:LYS:HD2	27:Z1:272:ILE:CG1	2.20	0.66
26:Y1:1230:GLU:HG2	26:Y1:1233:ARG:HH21	0.59	0.66
27:Z1:182:ILE:HA	27:Z1:198:ASN:OD1	1.95	0.66
27:Z2:153:MET:CE	27:Z2:211:PHE:CZ	2.79	0.66
27:Z2:182:ILE:HD13	27:Z2:198:ASN:OD1	1.96	0.66
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CG2	2.79	0.66
1:A2:1228:TYR:OH	1:A1:642:ARG:NE	2.11	0.65
7:G1:253:SER:CB	13:M2:592:LEU:CD1	2.74	0.65
9:I1:904:GLU:CG	13:M1:577:LEU:HB2	2.26	0.65
9:I2:1029:LEU:CD2	13:M3:613:ASP:CG	2.64	0.65
9:I2:1031:ALA:CB	13:M3:621:ARG:NH2	2.58	0.65
9:I2:1049:LEU:HB2	14:N3:293:LYS:CA	1.97	0.65
9:I2:1421:ARG:NH2	9:I2:1482:ASP:OD1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J1:248:VAL:HG13	15:O1:272:SER:C	2.17	0.65
17:Q1:337:HIS:CE1	17:Q1:401:ILE:HB	2.31	0.65
17:Q1:928:LYS:HE3	17:Q1:932:LEU:HD11	1.78	0.65
17:Q2:741:GLY:O	17:Q2:745:ILE:HG13	1.96	0.65
17:Q2:896:TYR:CD1	17:Q2:933:LEU:HD12	2.31	0.65
17:Q2:960:ILE:HA	17:Q2:963:LYS:CE	2.25	0.65
18:R1:588:GLU:O	18:R1:591:ILE:HG22	1.96	0.65
18:R1:614:PRO:CA	18:R1:617:ILE:HG22	2.23	0.65
22:U1:221:ALA:HB2	22:U1:312:TRP:CE2	2.31	0.65
22:U1:289:GLN:N	25:X1:798:ASN:CA	2.58	0.65
22:U2:313:ASN:HB2	22:U2:318:ILE:H	1.61	0.65
25:X1:789:GLU:OE2	27:Z1:684:ARG:HD3	1.96	0.65
25:X2:726:VAL:CA	25:X2:727:SER:N	2.59	0.65
26:Y1:1435:LYS:O	26:Y1:1439:VAL:HG23	1.96	0.65
26:Y2:1229:MET:O	26:Y2:1233:ARG:HG3	1.96	0.65
26:Y2:1298:TYR:HB2	27:Z2:588:TRP:CH2	2.31	0.65
27:Z1:153:MET:CE	27:Z1:211:PHE:CZ	2.79	0.65
27:Z1:314:ILE:CD1	27:Z1:386:PHE:CE2	2.69	0.65
27:Z1:329:LYS:HE2	27:Z1:331:LEU:O	1.97	0.65
27:Z2:8:SER:OG	27:Z2:447:PHE:CD1	2.48	0.65
27:Z2:43:ILE:HG13	27:Z2:91:MET:SD	2.36	0.65
27:Z2:634:ILE:O	27:Z2:638:ILE:HG13	1.95	0.65
7:G2:252:LEU:HB3	15:O4:248:SER:HB2	1.78	0.65
9:I1:839:TRP:N	15:O1:198:ARG:NH2	2.44	0.65
9:I2:964:SER:C	16:P3:149:ARG:HA	2.13	0.65
9:I2:1308:THR:OG1	14:N3:413:VAL:HG11	1.94	0.65
17:Q1:294:THR:CG2	17:Q1:307:LEU:HB2	2.26	0.65
17:Q1:520:ILE:CD1	17:Q1:574:ASN:HB3	2.25	0.65
17:Q1:906:ILE:HD12	17:Q1:923:HIS:CD2	2.32	0.65
17:Q1:1062:VAL:O	17:Q1:1065:VAL:HG22	1.96	0.65
17:Q2:906:ILE:HD12	17:Q2:923:HIS:CD2	2.32	0.65
26:Y1:1235:MET:C	26:Y1:1239:PHE:CE2	2.69	0.65
26:Y2:1321:MET:CB	27:Z1:51:ASP:CB	2.73	0.65
27:Z1:317:VAL:HG23	27:Z1:319:PHE:CE2	2.30	0.65
27:Z2:303:ALA:HB1	27:Z2:363:LEU:HD21	1.69	0.65
1:A2:1221:ILE:HG13	1:A1:600:LYS:HE3	1.78	0.65
1:A2:1386:GLU:OE2	1:A1:728:LYS:NZ	2.28	0.65
1:A3:871:ASN:HA	4:D1:515:ASN:HB2	1.74	0.65
1:A3:1070:ASP:O	9:I2:1238:LYS:NZ	2.29	0.65
1:A3:1331:GLU:CG	4:D3:873:GLN:C	2.61	0.65
6:F1:1392:LEU:CD2	15:O2:259:ASP:OD2	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:139:GLN:C	9:I2:1391:THR:HG22	2.16	0.65
9:I2:904:GLU:CD	15:O3:235:ASN:ND2	2.46	0.65
9:I2:914:ASN:CA	15:O3:194:GLU:CB	2.61	0.65
9:I2:982:GLN:CD	15:O3:179:LEU:HD13	2.17	0.65
9:I2:982:GLN:NE2	15:O3:179:LEU:HD12	2.11	0.65
9:I2:1107:SER:HB3	13:M3:615:PRO:HG3	0.67	0.65
17:Q1:291:ILE:HD13	17:Q1:311:ASN:HB2	1.77	0.65
17:Q1:703:THR:HA	17:Q1:707:PRO:CB	2.26	0.65
17:Q1:745:ILE:HD13	17:Q1:800:GLN:CD	2.17	0.65
17:Q2:557:LEU:HD21	17:Q2:598:ILE:HG23	1.78	0.65
18:R1:8:GLN:C	18:R1:10:GLU:H	1.99	0.65
18:R1:442:LEU:HD21	18:R1:470:LEU:HD21	1.76	0.65
19:R2:260:GLU:OE2	20:S2:318:HIS:NE2	2.29	0.65
20:S2:152:ALA:HB1	20:S2:160:LEU:HD11	1.78	0.65
23:V1:119:GLY:O	23:V1:122:ARG:HG2	1.97	0.65
25:X2:688:HIS:N	27:Z2:8:SER:HG	1.93	0.65
25:X2:776:PHE:HA	27:Z2:666:GLU:OE2	1.96	0.65
25:X2:777:ASN:C	25:X2:793:LEU:HB2	2.17	0.65
25:X2:778:LYS:NZ	25:X2:791:ILE:HG22	2.11	0.65
25:X2:797:LEU:HD21	26:Y2:1384:LYS:CE	2.26	0.65
26:Y1:1310:VAL:CG1	26:Y1:1314:LYS:HE3	2.25	0.65
26:Y2:1228:LEU:HD13	27:Z2:539:ILE:O	1.95	0.65
27:Z2:13:PHE:HE1	27:Z2:445:LEU:HB2	1.62	0.65
27:Z2:119:GLU:C	27:Z2:119:GLU:N	2.50	0.65
27:Z2:184:ASP:OD1	27:Z2:184:ASP:O	2.12	0.65
27:Z2:431:TRP:HD1	27:Z2:436:ASN:ND2	1.93	0.65
1:A2:1091:VAL:HB	4:D1:1104:GLU:HG2	1.78	0.65
1:A3:1223:GLU:N	1:A4:648:TYR:CE2	1.85	0.65
5:E3:67:ASP:CB	6:F2:1658:TYR:CZ	2.07	0.65
9:I1:1048:GLU:OE1	15:O1:171:ASP:N	2.20	0.65
9:I2:806:VAL:HA	15:O3:244:GLU:HA	1.77	0.65
9:I2:1433:THR:CG2	10:J2:270:ARG:HD3	2.26	0.65
10:J1:250:THR:CB	15:O1:276:GLY:O	2.44	0.65
17:Q1:171:LYS:HZ1	17:Q1:173:ILE:HB	1.60	0.65
17:Q1:557:LEU:HD21	17:Q1:598:ILE:HG23	1.78	0.65
17:Q2:139:ILE:HB	17:Q2:211:MET:HE3	1.78	0.65
17:Q2:294:THR:CG2	17:Q2:307:LEU:HB2	2.25	0.65
17:Q2:742:LEU:O	17:Q2:742:LEU:HD23	1.96	0.65
17:Q2:971:ILE:CG2	17:Q2:975:PHE:HB2	2.27	0.65
22:U1:289:GLN:HG2	25:X1:794:ILE:CA	1.93	0.65
22:U1:306:GLU:N	22:U1:324:ASP:OD2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:119:GLY:O	23:V2:122:ARG:HG2	1.97	0.65
25:X1:776:PHE:HA	27:Z1:666:GLU:OE2	1.96	0.65
25:X2:755:LEU:HD13	26:Y2:1349:LEU:CG	2.25	0.65
26:Y1:1352:VAL:O	26:Y1:1356:ILE:HG13	1.96	0.65
27:Z1:328:PHE:HD2	27:Z1:351:ILE:HG12	1.62	0.65
27:Z2:142:ILE:HG13	27:Z2:156:ILE:HD11	1.78	0.65
27:Z2:437:LEU:CG	27:Z2:448:GLN:HE21	2.07	0.65
6:F1:1807:GLU:HA	14:N2:411:GLN:NE2	2.11	0.65
9:I2:928:LEU:HB3	15:O3:179:LEU:HD22	1.77	0.65
17:Q1:382:ARG:N	17:Q1:512:ILE:HG12	2.05	0.65
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:HB2	1.61	0.65
17:Q2:228:ILE:CG1	17:Q2:248:LEU:HB2	2.27	0.65
18:R1:534:SER:HA	18:R1:546:LEU:HD22	1.79	0.65
18:R1:684:ILE:HD13	18:R1:722:ALA:CA	2.23	0.65
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CD1	2.73	0.65
27:Z1:131:LEU:HD12	27:Z1:187:PHE:CZ	2.30	0.65
27:Z1:297:TYR:CG	27:Z1:321:ASP:OD2	2.44	0.65
27:Z1:634:ILE:CG2	27:Z1:638:ILE:CD1	2.74	0.65
27:Z2:182:ILE:HA	27:Z2:198:ASN:OD1	1.96	0.65
27:Z2:448:GLN:HB3	27:Z2:573:LYS:NZ	2.12	0.65
27:Z2:709:THR:O	27:Z2:709:THR:HG22	1.95	0.65
1:A2:1201:ARG:HG3	1:A1:647:GLU:HG3	1.76	0.65
6:F1:1205:TRP:CD1	15:O2:241:SER:HA	2.31	0.65
6:F2:1329:LYS:O	6:F2:1364:ASN:ND2	2.29	0.65
9:I1:1433:THR:CG2	10:J1:270:ARG:HD3	2.26	0.65
9:I2:270:TRP:NE1	9:I2:272:LYS:O	2.30	0.65
9:I2:895:ARG:HH21	13:M3:589:GLY:CA	2.00	0.65
17:Q1:366:ILE:CD1	17:Q1:377:ILE:HD13	2.27	0.65
17:Q1:443:TRP:CD1	17:Q1:504:PHE:HD1	2.06	0.65
17:Q1:697:ASP:HA	17:Q1:700:GLU:OE1	1.97	0.65
17:Q1:803:GLN:HB3	17:Q1:807:PHE:HE2	1.62	0.65
17:Q2:170:SER:HB2	17:Q2:200:ILE:HD11	1.78	0.65
17:Q2:697:ASP:HA	17:Q2:700:GLU:OE1	1.97	0.65
17:Q2:740:GLU:HG2	17:Q2:744:LYS:CE	2.27	0.65
17:Q2:866:GLN:HA	17:Q2:870:VAL:HG23	1.77	0.65
18:R1:20:LYS:O	18:R1:24:ILE:HG12	1.97	0.65
18:R1:534:SER:HA	18:R1:546:LEU:CD2	2.25	0.65
19:R2:534:SER:HA	19:R2:546:LEU:CD2	2.26	0.65
22:U1:313:ASN:HB2	22:U1:318:ILE:H	1.61	0.65
26:Y1:1212:ARG:N	26:Y1:1212:ARG:CB	2.60	0.65
27:Z1:136:SER:C	27:Z1:217:LEU:CG	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:342:TYR:HE2	27:Z1:344:TYR:HD2	1.28	0.65
27:Z2:217:LEU:HD21	27:Z2:269:LYS:CD	1.86	0.65
27:Z2:328:PHE:HD2	27:Z2:351:ILE:HG12	1.61	0.65
1:A2:1091:VAL:CA	4:D1:1104:GLU:OE2	2.42	0.65
1:A2:1274:ASP:C	1:A1:642:ARG:HH11	2.00	0.65
6:F1:50:LEU:O	6:F1:56:HIS:NE2	2.30	0.65
6:F1:138:ILE:CG2	9:I1:1391:THR:HB	2.23	0.65
6:F1:138:ILE:HD12	9:I1:1391:THR:HB	1.78	0.65
7:G1:247:ASP:OD1	15:O2:247:TRP:CE3	2.50	0.65
9:I1:1038:ILE:HG13	15:O1:179:LEU:HD13	1.67	0.65
9:I1:1315:GLN:CG	15:O1:269:ILE:H	2.06	0.65
9:I1:1426:SER:OG	10:J1:263:MET:SD	2.45	0.65
9:I2:1103:LEU:N	13:M3:611:LYS:HE3	1.80	0.65
9:I2:1305:LEU:CD2	15:O3:264:ILE:CD1	2.73	0.65
17:Q1:703:THR:HA	17:Q1:707:PRO:HB2	1.78	0.65
17:Q1:740:GLU:HG2	17:Q1:744:LYS:CE	2.27	0.65
19:R2:20:LYS:O	19:R2:24:ILE:HG12	1.97	0.65
19:R2:539:LEU:HD13	19:R2:539:LEU:O	1.97	0.65
25:X1:789:GLU:OE2	25:X1:793:LEU:HD13	1.85	0.65
25:X2:690:GLN:HB3	27:Z2:7:LEU:HD22	1.78	0.65
26:Y2:1270:LEU:HD23	27:Z2:564:LEU:CD2	2.25	0.65
27:Z1:43:ILE:HG13	27:Z1:91:MET:SD	2.36	0.65
27:Z2:12:ILE:HD13	27:Z2:54:TYR:HB3	1.76	0.65
27:Z2:119:GLU:C	27:Z2:119:GLU:CB	2.64	0.65
27:Z2:244:ILE:HG13	27:Z2:344:TYR:HH	1.54	0.65
27:Z2:282:GLN:CG	27:Z2:342:TYR:O	2.43	0.65
27:Z2:329:LYS:HE2	27:Z2:331:LEU:O	1.96	0.65
27:Z2:641:PHE:CE1	27:Z2:645:VAL:HG22	2.29	0.65
27:Z2:642:ASN:H	27:Z2:645:VAL:HG23	1.61	0.65
1:A3:1084:ARG:HA	4:D3:1095:ARG:HE	1.54	0.65
1:A3:1402:ASP:CB	4:D3:821:GLU:OE1	2.45	0.65
1:A4:127:HIS:CE1	4:D3:1009:ARG:N	2.61	0.65
6:F1:154:SER:CB	9:I1:1344:GLN:NE2	2.50	0.65
9:I2:803:ASP:OD1	15:O3:251:ILE:CD1	2.45	0.65
9:I2:895:ARG:NH2	13:M3:585:LEU:O	2.30	0.65
9:I2:964:SER:CB	16:P3:149:ARG:HA	2.24	0.65
9:I2:976:ARG:CZ	15:O3:174:LEU:CD1	2.74	0.65
9:I2:1046:HIS:CE1	14:N3:289:PHE:HE2	2.15	0.65
9:I2:1160:ILE:CD1	15:O3:264:ILE:HD13	2.26	0.65
17:Q1:228:ILE:CG1	17:Q1:248:LEU:HB2	2.27	0.65
17:Q1:584:LYS:HE2	17:Q1:708:TRP:HH2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:741:GLY:O	17:Q1:745:ILE:HG13	1.95	0.65
17:Q1:866:GLN:HA	17:Q1:870:VAL:HG23	1.77	0.65
17:Q1:896:TYR:CD1	17:Q1:933:LEU:HD12	2.32	0.65
17:Q1:969:VAL:HG12	17:Q1:1009:LEU:HD22	1.79	0.65
17:Q1:982:GLU:HA	17:Q1:982:GLU:OE1	1.97	0.65
17:Q1:1094:TYR:HA	17:Q1:1097:GLU:OE2	1.96	0.65
17:Q2:291:ILE:HD13	17:Q2:311:ASN:HB2	1.77	0.65
17:Q2:670:THR:OG1	17:Q2:743:LEU:HD13	1.97	0.65
21:T2:180:ASN:HA	21:T2:207:VAL:HG23	1.79	0.65
24:W1:63:SER:OG	24:W1:112:GLU:OE1	2.15	0.65
25:X1:790:ASN:OD1	27:Z1:680:TRP:CZ2	2.48	0.65
25:X2:640:LEU:CD1	26:Y2:1218:PHE:CZ	2.77	0.65
25:X2:685:MET:CG	27:Z2:445:LEU:HB3	2.26	0.65
26:Y1:1314:LYS:O	26:Y1:1318:LEU:HG	1.97	0.65
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:CG	2.58	0.65
27:Z1:142:ILE:HG13	27:Z1:156:ILE:HD11	1.78	0.65
27:Z1:361:LYS:HZ2	27:Z1:378:ASP:HB2	1.55	0.65
27:Z1:383:GLN:HG3	27:Z1:417:ILE:HG23	1.76	0.65
27:Z1:541:LYS:HZ2	27:Z2:549:ILE:C	1.97	0.65
27:Z2:326:LEU:HD23	27:Z2:410:PHE:HZ	1.61	0.65
1:A2:773:PHE:HZ	1:A2:818:LEU:HD12	1.62	0.65
1:A2:1204:TRP:NE1	1:A1:599:ARG:N	2.44	0.65
1:A2:1220:PRO:O	1:A1:599:ARG:HB2	1.93	0.65
1:A2:1221:ILE:C	1:A1:600:LYS:HG3	2.17	0.65
1:A3:773:PHE:HZ	1:A3:818:LEU:HD12	1.62	0.65
1:A4:622:GLY:O	4:D3:977:GLU:CG	2.44	0.65
1:A4:622:GLY:C	4:D3:977:GLU:HG3	2.08	0.65
6:F1:158:PRO:HG2	9:I1:1339:LEU:C	2.17	0.65
6:F1:1329:LYS:O	6:F1:1364:ASN:ND2	2.29	0.65
9:I2:805:ILE:O	15:O3:244:GLU:CG	2.45	0.65
9:I2:976:ARG:HH12	16:P3:141:ALA:HB1	1.61	0.65
17:Q1:527:ILE:HD11	17:Q1:530:ASP:CB	2.27	0.65
17:Q1:557:LEU:O	17:Q1:557:LEU:HD23	1.97	0.65
17:Q1:725:PHE:HD1	17:Q1:740:GLU:CG	2.08	0.65
17:Q1:922:LEU:HD22	18:R1:688:LEU:CB	2.27	0.65
17:Q2:705:LYS:HA	17:Q2:705:LYS:HE3	1.78	0.65
17:Q2:1009:LEU:HD12	17:Q2:1014:SER:OG	1.96	0.65
25:X2:680:TYR:CZ	27:Z2:439:LEU:HD12	2.32	0.65
26:Y2:1270:LEU:HD23	27:Z2:564:LEU:HD21	1.72	0.65
26:Y2:1352:VAL:O	26:Y2:1356:ILE:HG13	1.96	0.65
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CG2	2.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1331:GLU:O	4:D3:887:ALA:HA	1.96	0.65
1:A3:1402:ASP:CA	4:D3:824:ARG:HD3	2.27	0.65
6:F1:138:ILE:CD1	9:I1:1388:GLU:CA	2.74	0.65
6:F1:1265:GLN:CA	15:O2:252:VAL:HG23	2.25	0.65
9:I2:896:PRO:CB	13:M3:588:MET:CE	2.75	0.65
9:I2:1302:ARG:HD3	15:O3:263:GLN:HG3	1.79	0.65
17:Q1:443:TRP:CD2	17:Q1:504:PHE:CD1	2.71	0.65
17:Q1:670:THR:OG1	17:Q1:743:LEU:HD13	1.97	0.65
17:Q2:756:PHE:CE2	17:Q2:760:ILE:HD12	2.31	0.65
17:Q2:864:PHE:HE1	19:R2:680:ILE:HG13	1.62	0.65
23:V1:344:ARG:HH12	25:X1:715:GLU:HB3	1.61	0.65
25:X1:700:ILE:CA	26:Y1:1298:TYR:HE1	2.08	0.65
25:X2:700:ILE:CB	26:Y2:1298:TYR:CD1	2.65	0.65
27:Z1:314:ILE:HG22	27:Z1:326:LEU:HD12	1.80	0.65
27:Z1:437:LEU:CD2	27:Z1:450:ILE:CD1	2.73	0.65
27:Z2:611:GLN:C	27:Z2:612:ILE:CA	2.64	0.65
1:A2:1331:GLU:O	4:D1:903:ILE:HG13	1.97	0.64
1:A3:1223:GLU:OE1	1:A4:648:TYR:N	2.28	0.64
6:F1:141:ALA:HA	9:I1:1390:PHE:CD1	2.32	0.64
6:F2:1267:ARG:HH12	15:O4:262:ASP:HB2	0.82	0.64
9:I1:981:VAL:CG1	15:O1:176:ARG:NE	2.59	0.64
9:I1:1038:ILE:HD13	15:O1:179:LEU:HD12	1.77	0.64
9:I2:979:ALA:CB	15:O3:178:ASP:OD2	2.45	0.64
9:I2:1254:VAL:HG23	14:N3:409:ALA:O	1.97	0.64
9:I2:1302:ARG:HD3	15:O3:263:GLN:CD	2.17	0.64
17:Q1:283:VAL:HG23	17:Q1:297:LEU:HG	1.78	0.64
17:Q2:337:HIS:CE1	17:Q2:401:ILE:HB	2.32	0.64
17:Q2:366:ILE:CD1	17:Q2:377:ILE:HD13	2.27	0.64
17:Q2:718:ILE:CG2	17:Q2:722:PHE:HE1	2.10	0.64
17:Q2:1062:VAL:O	17:Q2:1065:VAL:HG22	1.96	0.64
22:U1:288:LEU:CD1	25:X1:792:GLN:CA	2.73	0.64
25:X1:637:LEU:N	26:Y1:1218:PHE:HE2	1.91	0.64
25:X1:778:LYS:O	25:X1:778:LYS:CE	2.45	0.64
25:X1:803:ALA:CB	26:Y1:1372:LYS:HG3	2.26	0.64
25:X2:815:GLU:CA	26:Y2:1402:LEU:HD22	2.27	0.64
27:Z1:189:LYS:O	27:Z1:311:GLN:CG	2.46	0.64
27:Z1:642:ASN:H	27:Z1:645:VAL:HG23	1.61	0.64
27:Z2:227:LEU:HD21	27:Z2:256:VAL:CG1	1.85	0.64
27:Z2:642:ASN:ND2	27:Z2:646:HIS:ND1	2.44	0.64
1:A2:1224:PRO:CG	1:A1:648:TYR:CE1	2.65	0.64
1:A2:1280:GLN:CA	1:A1:635:ARG:HD2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1270:SER:HA	1:A4:729:SER:CA	2.15	0.64
6:F1:273:ALA:N	9:I1:1209:THR:OG1	2.30	0.64
9:I1:918:SER:CB	15:O1:193:ALA:HB3	2.22	0.64
9:I1:976:ARG:NE	15:O1:173:ILE:N	2.45	0.64
9:I2:919:ALA:C	16:P3:157:GLU:HB3	2.16	0.64
9:I2:1033:PRO:CG	13:M3:619:ILE:N	2.46	0.64
9:I2:1048:GLU:C	16:P3:141:ALA:CB	2.62	0.64
10:J2:248:VAL:CG2	14:N3:428:ASP:OD2	2.45	0.64
17:Q1:584:LYS:CE	17:Q1:708:TRP:HH2	2.10	0.64
17:Q1:943:THR:CA	17:Q1:946:LYS:HE3	2.26	0.64
17:Q2:527:ILE:HD11	17:Q2:530:ASP:CB	2.27	0.64
17:Q2:703:THR:HA	17:Q2:707:PRO:HB2	1.78	0.64
17:Q2:1076:PHE:HB3	17:Q2:1155:VAL:HG22	1.79	0.64
18:R1:242:LEU:HD22	20:S1:305:VAL:HG22	1.78	0.64
22:U2:221:ALA:HB2	22:U2:312:TRP:CE2	2.31	0.64
24:W1:526:ARG:C	24:W1:744:VAL:H	2.00	0.64
27:Z1:303:ALA:HB1	27:Z1:363:LEU:HD21	1.69	0.64
27:Z1:383:GLN:CG	27:Z1:417:ILE:CG2	2.67	0.64
27:Z2:221:LYS:O	27:Z2:225:LEU:HG	1.98	0.64
1:A2:1284:ASN:ND2	1:A1:635:ARG:CD	2.57	0.64
1:A3:1087:GLY:O	4:D3:1100:PRO:O	2.14	0.64
1:A3:1399:ARG:HH21	4:D3:866:PHE:HA	1.62	0.64
1:A4:827:ILE:CB	1:A4:849:SER:CA	2.76	0.64
6:F1:272:GLU:CA	9:I1:1209:THR:N	2.61	0.64
6:F1:1267:ARG:NH2	15:O2:253:LEU:O	2.30	0.64
6:F1:1807:GLU:O	14:N2:411:GLN:CD	2.36	0.64
9:I1:270:TRP:NE1	9:I1:272:LYS:O	2.30	0.64
17:Q1:100:ASN:ND2	17:Q1:105:VAL:HG22	2.12	0.64
17:Q1:351:ILE:HB	17:Q1:362:ILE:HD11	1.78	0.64
17:Q2:584:LYS:HE2	17:Q2:708:TRP:HH2	1.61	0.64
17:Q2:813:GLY:O	17:Q2:817:THR:HG23	1.97	0.64
17:Q2:928:LYS:HE3	17:Q2:932:LEU:HD11	1.78	0.64
17:Q2:969:VAL:HG12	17:Q2:1009:LEU:HD22	1.79	0.64
18:R1:580:PHE:CE2	18:R1:584:ILE:HD11	2.32	0.64
25:X1:776:PHE:CD1	25:X1:795:LYS:HD3	2.30	0.64
25:X1:799:SER:CA	26:Y1:1372:LYS:CA	2.75	0.64
25:X2:774:ASN:HA	25:X2:794:ILE:O	1.97	0.64
26:Y1:1386:ALA:HA	26:Y2:1357:ASN:HA	1.78	0.64
26:Y1:1389:SER:CB	26:Y2:1357:ASN:OD1	2.45	0.64
26:Y2:1235:MET:C	26:Y2:1239:PHE:CE2	2.71	0.64
27:Z1:13:PHE:HE1	27:Z1:445:LEU:HB2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:41:ASN:ND2	27:Z2:60:SER:H	1.87	0.64
27:Z2:437:LEU:CD2	27:Z2:450:ILE:CD1	2.73	0.64
5:E3:67:ASP:HB3	6:F2:1658:TYR:CZ	2.26	0.64
9:I1:1034:ASP:OD2	16:P1:148:ALA:N	2.30	0.64
9:I2:1297:LEU:O	9:I2:1301:ASN:ND2	2.31	0.64
17:Q1:742:LEU:O	17:Q1:742:LEU:HD23	1.96	0.64
17:Q1:983:VAL:O	17:Q1:987:LEU:HG	1.98	0.64
17:Q2:210:LEU:CD1	17:Q2:212:LEU:HD23	2.20	0.64
17:Q2:288:ASN:HD21	17:Q2:332:LYS:HG2	1.62	0.64
17:Q2:426:ILE:HD12	17:Q2:479:VAL:CG2	2.28	0.64
17:Q2:557:LEU:O	17:Q2:557:LEU:HD23	1.97	0.64
17:Q2:951:LEU:O	17:Q2:951:LEU:HD23	1.97	0.64
20:S1:152:ALA:HB1	20:S1:160:LEU:HD11	1.78	0.64
22:U1:212:LYS:HZ1	25:X1:768:GLU:HA	1.62	0.64
24:W2:55:GLU:HB2	24:W2:74:SER:HA	1.78	0.64
26:Y1:1455:ASN:CB	26:Y1:1456:LEU:N	2.60	0.64
26:Y2:1449:ILE:HG22	26:Y2:1449:ILE:O	1.96	0.64
27:Z1:47:ASN:ND2	27:Z1:95:TRP:HZ2	1.82	0.64
27:Z2:117:ASP:C	27:Z2:124:LYS:HZ1	1.99	0.64
27:Z2:381:ILE:CD1	27:Z2:424:PRO:HG3	2.28	0.64
1:A2:1201:ARG:NH2	1:A1:647:GLU:N	2.36	0.64
1:A3:1399:ARG:HG2	4:D3:824:ARG:HH12	1.62	0.64
1:A4:833:VAL:HG21	1:A4:850:PRO:CD	2.27	0.64
6:F1:1392:LEU:HD22	15:O2:259:ASP:OD2	1.98	0.64
9:I2:899:LEU:C	13:M3:581:LEU:HA	2.18	0.64
9:I2:1030:ARG:HB3	13:M3:612:PRO:HA	1.79	0.64
9:I2:1106:LYS:HG2	15:O3:274:GLY:O	1.95	0.64
17:Q1:170:SER:HB2	17:Q1:200:ILE:HD11	1.78	0.64
17:Q1:951:LEU:O	17:Q1:951:LEU:HD23	1.97	0.64
17:Q2:584:LYS:CE	17:Q2:708:TRP:HH2	2.09	0.64
17:Q2:657:LEU:HD23	17:Q2:657:LEU:H	1.61	0.64
17:Q2:903:LEU:HD12	17:Q2:926:VAL:CG1	2.27	0.64
18:R1:539:LEU:HD13	18:R1:539:LEU:O	1.97	0.64
19:R2:534:SER:HA	19:R2:546:LEU:HD22	1.79	0.64
19:R2:701:ILE:CG2	19:R2:705:PHE:HE1	2.08	0.64
20:S2:209:PRO:HB3	20:S2:532:LYS:HB2	1.78	0.64
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CE1	2.27	0.64
26:Y1:1407:SER:O	26:Y1:1411:LEU:HG	1.98	0.64
26:Y1:1449:ILE:HG22	26:Y1:1449:ILE:O	1.96	0.64
27:Z1:124:LYS:HA	27:Z1:124:LYS:N	2.12	0.64
27:Z1:207:ALA:CB	27:Z1:285:PHE:CZ	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:391:SER:HB2	27:Z2:267:PHE:HZ	1.60	0.64
27:Z1:531:ILE:HD13	27:Z2:541:LYS:HG2	1.80	0.64
1:A3:1056:PHE:CZ	4:D3:1104:GLU:N	2.57	0.64
1:A3:1084:ARG:O	4:D3:1095:ARG:HD3	1.98	0.64
1:A3:1271:ILE:CG1	1:A4:730:THR:HG21	2.21	0.64
6:F1:161:ALA:HB1	9:I1:1333:THR:O	1.97	0.64
7:G1:253:SER:CB	13:M2:592:LEU:HD12	2.27	0.64
9:I2:968:PRO:HD2	14:N3:300:ALA:HB1	1.79	0.64
17:Q1:805:ALA:HB2	17:Q1:815:VAL:CG1	2.28	0.64
17:Q1:971:ILE:CG2	17:Q1:975:PHE:HB2	2.27	0.64
17:Q1:1076:PHE:HB3	17:Q1:1155:VAL:HG22	1.79	0.64
17:Q2:725:PHE:HD1	17:Q2:740:GLU:CG	2.08	0.64
17:Q2:975:PHE:HD1	17:Q2:980:ILE:CD1	2.11	0.64
17:Q2:1094:TYR:HA	17:Q2:1097:GLU:OE2	1.96	0.64
20:S1:574:THR:CB	21:T1:88:ARG:CD	2.75	0.64
25:X1:638:ASP:OD1	25:X1:639:ASP:CA	2.45	0.64
25:X1:708:GLU:HG2	27:Z1:598:LEU:CD2	2.24	0.64
25:X2:638:ASP:N	25:X2:641:VAL:HG23	2.13	0.64
26:Y1:1371:VAL:C	26:Y1:1372:LYS:CA	2.66	0.64
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:HA	1.80	0.64
27:Z1:112:PHE:CD1	27:Z1:156:ILE:HA	2.33	0.64
1:A1:773:PHE:HZ	1:A1:818:LEU:HD12	1.61	0.64
1:A1:833:VAL:HG21	1:A1:850:PRO:CD	2.27	0.64
1:A2:1203:TYR:HB3	1:A1:599:ARG:NH2	2.13	0.64
1:A2:1221:ILE:N	1:A1:599:ARG:HB3	2.13	0.64
1:A3:871:ASN:ND2	4:D1:515:ASN:CG	2.50	0.64
6:F1:134:ASP:CB	9:I1:1388:GLU:OE1	2.45	0.64
6:F2:50:LEU:O	6:F2:56:HIS:NE2	2.30	0.64
7:G2:253:SER:HA	15:O4:250:LEU:N	2.13	0.64
9:I1:912:VAL:HG23	15:O1:198:ARG:HH22	1.60	0.64
9:I1:1051:LYS:CB	14:N1:293:LYS:NZ	2.42	0.64
9:I2:915:ALA:HB1	16:P3:160:LEU:HD21	1.79	0.64
9:I2:968:PRO:HD2	14:N3:300:ALA:CB	2.27	0.64
17:Q1:604:ILE:HD13	17:Q1:672:LEU:HD11	1.80	0.64
17:Q1:1078:LEU:HD21	17:Q1:1155:VAL:CG1	2.16	0.64
17:Q2:111:HIS:O	17:Q2:113:THR:HG23	1.98	0.64
17:Q2:526:SER:HB3	17:Q2:531:LEU:CD1	2.27	0.64
17:Q2:745:ILE:HD13	17:Q2:800:GLN:CD	2.17	0.64
17:Q2:943:THR:CA	17:Q2:946:LYS:HE3	2.27	0.64
18:R1:409:LYS:HZ1	18:R1:447:PHE:C	2.01	0.64
18:R1:625:LYS:HA	18:R1:628:PHE:CD1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:527:VAL:HB	19:R2:580:PHE:CD2	2.33	0.64
19:R2:625:LYS:HA	19:R2:628:PHE:CD1	2.33	0.64
22:U1:245:ILE:HG12	27:Z1:661:GLU:OE2	1.97	0.64
24:W2:63:SER:OG	24:W2:112:GLU:OE1	2.15	0.64
25:X1:707:LEU:HD11	26:Y1:1306:ILE:HG12	0.75	0.64
25:X1:717:LYS:HZ1	26:Y1:1320:LEU:HD12	1.60	0.64
25:X1:795:LYS:HE3	27:Z1:669:THR:OG1	1.98	0.64
25:X2:778:LYS:HG2	25:X2:794:ILE:N	2.10	0.64
25:X2:817:GLN:O	25:X2:820:SER:OG	2.09	0.64
26:Y2:1407:SER:CA	26:Y2:1410:GLN:HG2	2.27	0.64
27:Z1:83:PHE:CE2	27:Z1:130:VAL:HB	2.33	0.64
27:Z1:221:LYS:O	27:Z1:225:LEU:HG	1.98	0.64
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HG11	2.27	0.64
27:Z2:35:ILE:HD12	27:Z2:429:ILE:CD1	2.19	0.64
27:Z2:83:PHE:CE2	27:Z2:130:VAL:HB	2.33	0.64
27:Z2:189:LYS:O	27:Z2:311:GLN:CG	2.46	0.64
27:Z2:213:PRO:CD	27:Z2:216:LEU:HD23	2.19	0.64
27:Z2:410:PHE:O	27:Z2:410:PHE:HD2	1.76	0.64
1:A2:1269:ALA:C	1:A1:731:ILE:HG13	2.18	0.64
1:A2:1272:GLY:O	1:A1:723:PHE:CE1	2.48	0.64
1:A2:1281:LEU:CD1	1:A1:635:ARG:NH1	2.49	0.64
1:A2:1284:ASN:HD22	1:A1:635:ARG:CD	2.11	0.64
6:F2:135:VAL:HG11	9:I2:1337:ALA:HB2	1.80	0.64
6:F2:176:ARG:NH2	9:I2:1207:PRO:CD	2.60	0.64
7:G1:253:SER:N	15:O2:243:LEU:HD22	2.13	0.64
9:I1:1046:HIS:CE1	15:O1:167:ASN:ND2	2.66	0.64
9:I1:1048:GLU:HG2	15:O1:167:ASN:HA	1.79	0.64
9:I1:1254:VAL:CG2	15:O1:259:ASP:N	2.61	0.64
9:I2:965:ALA:HB1	15:O3:182:THR:CG2	2.20	0.64
9:I2:1175:LYS:CE	15:O3:277:GLU:CD	2.65	0.64
9:I2:1256:TYR:C	15:O3:256:TYR:CD1	2.63	0.64
10:J1:250:THR:HB	15:O1:277:GLU:HA	1.78	0.64
17:Q1:813:GLY:O	17:Q1:817:THR:HG23	1.97	0.64
17:Q2:598:ILE:CB	17:Q2:636:ILE:HD13	2.24	0.64
17:Q2:625:GLN:HG2	17:Q2:626:ASN:H	1.63	0.64
17:Q2:929:LEU:HD12	19:R2:695:ALA:HB2	1.78	0.64
17:Q2:1006:TYR:CB	17:Q2:1018:PRO:HG3	2.27	0.64
19:R2:614:PRO:O	19:R2:618:GLU:HG3	1.98	0.64
22:U1:241:ARG:HG2	27:Z1:656:SER:CB	2.28	0.64
25:X2:774:ASN:CA	25:X2:794:ILE:O	2.46	0.64
26:Y1:1382:VAL:O	26:Y1:1384:LYS:CG	2.39	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1314:LYS:O	26:Y2:1318:LEU:HG	1.97	0.64
27:Z1:363:LEU:HD11	27:Z1:373:LEU:HD21	0.68	0.64
27:Z1:641:PHE:CE1	27:Z1:645:VAL:HG22	2.29	0.64
1:A2:1226:LEU:CD2	1:A1:647:GLU:CB	2.76	0.64
9:I1:912:VAL:CG2	15:O1:198:ARG:CZ	2.66	0.64
9:I1:922:ASP:CB	15:O1:191:ARG:HB2	2.24	0.64
9:I1:976:ARG:N	14:N1:301:LEU:HD11	2.13	0.64
9:I2:914:ASN:ND2	15:O3:191:ARG:HE	1.95	0.64
17:Q1:426:ILE:HD12	17:Q1:479:VAL:CG2	2.28	0.64
17:Q1:616:LYS:CB	17:Q1:630:THR:HG21	2.28	0.64
17:Q2:111:HIS:HD2	17:Q2:514:PHE:HB2	1.62	0.64
17:Q2:338:PRO:HB3	17:Q2:347:PHE:CE2	2.33	0.64
17:Q2:532:LYS:HB2	17:Q2:581:PRO:HG3	1.80	0.64
17:Q2:564:PHE:CZ	17:Q2:568:LEU:HD21	2.33	0.64
17:Q2:1005:LEU:HA	17:Q2:1008:MET:CE	2.28	0.64
18:R1:711:LEU:HA	18:R1:714:TYR:CE2	2.33	0.64
25:X2:691:ASN:HB2	27:Z2:431:TRP:NE1	2.12	0.64
25:X2:821:ILE:HA	27:Z1:276:TYR:CE2	2.30	0.64
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CG	2.86	0.64
26:Y2:1211:LEU:CG	26:Y2:1214:ILE:HD12	2.27	0.64
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:N	2.12	0.64
26:Y2:1336:THR:HG22	26:Y2:1340:ARG:CD	2.27	0.64
27:Z1:158:ASN:CB	27:Z1:161:GLU:OE2	2.45	0.64
27:Z1:216:LEU:HG	27:Z1:272:ILE:HD12	1.66	0.64
27:Z2:34:ARG:HB3	27:Z2:45:TRP:HZ2	1.63	0.64
27:Z2:158:ASN:CB	27:Z2:161:GLU:OE2	2.46	0.64
4:D1:673:LEU:CD2	1:A1:1094:ILE:CG2	2.76	0.64
9:I2:1104:LEU:N	13:M3:611:LYS:CE	2.61	0.64
17:Q1:288:ASN:HD21	17:Q1:332:LYS:HG2	1.62	0.64
17:Q1:705:LYS:HA	17:Q1:705:LYS:HE3	1.78	0.64
17:Q1:922:LEU:CD1	18:R1:688:LEU:HB3	2.27	0.64
17:Q1:975:PHE:HD1	17:Q1:980:ILE:CD1	2.11	0.64
17:Q2:534:THR:O	17:Q2:537:GLU:HG2	1.98	0.64
17:Q2:556:HIS:HA	17:Q2:559:VAL:CG2	2.28	0.64
17:Q2:858:ASN:HD21	19:R2:682:LYS:HE3	1.63	0.64
17:Q2:982:GLU:HA	17:Q2:982:GLU:OE1	1.97	0.64
19:R2:601:GLN:O	19:R2:604:VAL:HG12	1.98	0.64
21:T1:227:GLN:HA	21:T1:256:VAL:HG13	1.79	0.64
25:X2:751:LEU:CD1	27:Z2:638:ILE:HG12	2.19	0.64
26:Y2:1403:ARG:HE	27:Z2:704:VAL:HG23	1.63	0.64
27:Z1:34:ARG:CD	27:Z1:95:TRP:CH2	2.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:45:TRP:CH2	27:Z1:47:ASN:N	2.66	0.64
27:Z1:151:ILE:HD12	27:Z1:167:ASN:HD22	1.63	0.64
7:G1:253:SER:CA	15:O2:243:LEU:HD22	2.27	0.63
9:I1:844:LYS:HZ1	13:M1:539:ALA:HB2	1.63	0.63
9:I2:1100:ILE:HG12	13:M3:611:LYS:HG3	1.81	0.63
9:I2:1305:LEU:HD23	15:O3:260:LEU:HD11	1.79	0.63
17:Q1:455:ILE:CD1	17:Q1:469:THR:HG22	2.28	0.63
17:Q1:526:SER:HB3	17:Q1:531:LEU:CD1	2.27	0.63
17:Q1:564:PHE:CZ	17:Q1:568:LEU:HD21	2.33	0.63
17:Q1:903:LEU:HD12	17:Q1:926:VAL:CG1	2.27	0.63
17:Q1:922:LEU:HD11	18:R1:688:LEU:HB3	1.81	0.63
17:Q1:1005:LEU:HA	17:Q1:1008:MET:CE	2.28	0.63
17:Q1:1105:ASP:O	17:Q1:1109:ILE:HD12	1.99	0.63
17:Q2:283:VAL:HG23	17:Q2:297:LEU:HG	1.78	0.63
17:Q2:805:ALA:HB2	17:Q2:815:VAL:CG1	2.28	0.63
17:Q2:983:VAL:O	17:Q2:987:LEU:HG	1.98	0.63
18:R1:465:ILE:CD1	18:R1:473:SER:HB3	2.28	0.63
18:R1:620:LEU:HD13	18:R1:620:LEU:O	1.99	0.63
25:X1:726:VAL:O	25:X1:727:SER:HB3	1.87	0.63
26:Y1:1383:ALA:C	26:Y2:1361:GLU:CA	2.18	0.63
27:Z1:126:SER:C	27:Z1:147:GLU:OE2	2.37	0.63
27:Z2:363:LEU:HD11	27:Z2:373:LEU:HD21	0.68	0.63
27:Z2:637:GLN:HA	27:Z2:640:GLN:HG2	1.80	0.63
1:A2:1270:SER:HA	1:A1:731:ILE:O	1.97	0.63
4:D1:468:LYS:HE3	1:A1:999:SER:N	2.12	0.63
6:F1:159:ALA:N	9:I1:1339:LEU:H	1.97	0.63
9:I1:921:GLU:H	15:O1:190:ARG:NH2	1.94	0.63
9:I1:1106:LYS:CD	13:M1:613:ASP:HB3	2.27	0.63
9:I2:1030:ARG:N	13:M3:612:PRO:O	2.29	0.63
17:Q1:111:HIS:O	17:Q1:113:THR:HG23	1.98	0.63
17:Q1:181:ILE:HG22	17:Q1:183:ASN:N	2.13	0.63
17:Q1:630:THR:HG23	17:Q1:631:THR:N	2.13	0.63
17:Q2:549:MET:CE	17:Q2:629:LEU:HB2	2.29	0.63
19:R2:580:PHE:CE2	19:R2:584:ILE:HD11	2.33	0.63
22:U1:293:GLN:HG2	26:Y1:1371:VAL:CG2	2.09	0.63
25:X1:790:ASN:C	27:Z1:669:THR:C	2.56	0.63
25:X2:640:LEU:CD1	26:Y2:1218:PHE:CE2	2.81	0.63
25:X2:778:LYS:HA	25:X2:794:ILE:N	1.75	0.63
27:Z1:93:VAL:O	27:Z1:93:VAL:HG13	1.98	0.63
27:Z1:116:ILE:HD11	27:Z1:125:SER:O	1.91	0.63
1:A2:1333:ARG:HD2	4:D1:906:ARG:HD2	1.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:142:ALA:CB	9:I1:1395:LEU:CA	2.75	0.63
6:F1:1808:VAL:HA	14:N2:411:GLN:O	1.97	0.63
7:G2:254:ASN:CG	15:O4:256:TYR:HB2	2.18	0.63
9:I1:900:ARG:HG3	13:M1:577:LEU:HA	0.64	0.63
9:I2:900:ARG:CD	15:O3:235:ASN:N	2.58	0.63
9:I2:1108:PRO:C	15:O3:281:ALA:CA	2.65	0.63
9:I2:1305:LEU:C	15:O3:264:ILE:HD11	2.14	0.63
17:Q2:98:LEU:HD23	17:Q2:99:VAL:N	2.13	0.63
21:T2:227:GLN:HA	21:T2:256:VAL:HG13	1.80	0.63
23:V1:265:ILE:HG21	23:V1:289:ILE:HD11	1.81	0.63
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD11	1.89	0.63
25:X2:704:GLN:CD	27:Z2:598:LEU:HD12	2.19	0.63
26:Y1:1270:LEU:HD23	27:Z1:564:LEU:CD2	2.25	0.63
26:Y1:1298:TYR:CB	27:Z1:588:TRP:CZ3	2.81	0.63
26:Y2:1298:TYR:CB	27:Z2:588:TRP:CZ3	2.81	0.63
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CG	2.86	0.63
26:Y2:1450:GLY:HA2	27:Z2:330:ASP:OD2	1.92	0.63
27:Z1:383:GLN:HE21	27:Z1:417:ILE:HG21	1.63	0.63
27:Z2:233:MET:O	27:Z2:236:SER:OG	2.13	0.63
1:A2:1204:TRP:HB2	1:A1:595:GLU:HG3	1.80	0.63
4:D1:1031:ARG:NH2	1:A1:625:LEU:O	2.31	0.63
7:G1:247:ASP:C	15:O2:247:TRP:CZ2	2.34	0.63
9:I1:640:ILE:O	9:I1:645:ARG:NH1	2.31	0.63
9:I1:980:ILE:HG12	15:O1:172:ALA:O	1.98	0.63
9:I2:979:ALA:CA	15:O3:178:ASP:OD2	2.45	0.63
9:I2:1103:LEU:HG	13:M3:611:LYS:HB3	1.77	0.63
9:I2:1160:ILE:HD13	15:O3:263:GLN:O	1.91	0.63
17:Q1:1090:LEU:HD13	17:Q1:1110:ARG:HG3	1.81	0.63
17:Q2:100:ASN:ND2	17:Q2:105:VAL:HG22	2.12	0.63
17:Q2:284:TYR:CE1	17:Q2:347:PHE:HZ	2.16	0.63
17:Q2:455:ILE:CD1	17:Q2:469:THR:HG22	2.28	0.63
17:Q2:684:GLU:HA	17:Q2:688:THR:CB	2.29	0.63
18:R1:533:LEU:HD23	18:R1:549:PHE:CE1	2.34	0.63
18:R1:601:GLN:O	18:R1:604:VAL:HG12	1.98	0.63
18:R1:614:PRO:O	18:R1:618:GLU:HG3	1.98	0.63
19:R2:207:SER:HA	19:R2:210:MET:HE3	1.81	0.63
20:S2:570:MET:HA	21:T2:85:GLU:HG3	1.80	0.63
25:X1:638:ASP:OD1	25:X1:638:ASP:O	2.16	0.63
27:Z1:404:PRO:C	27:Z2:271:ASP:OD2	2.36	0.63
27:Z2:205:ILE:HG22	27:Z2:285:PHE:HD2	1.51	0.63
27:Z2:207:ALA:CB	27:Z2:285:PHE:CZ	2.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:434:GLN:HG3	27:Z2:580:LYS:HE3	0.65	0.63
1:A2:1284:ASN:ND2	1:A1:635:ARG:HB2	2.13	0.63
9:I1:900:ARG:CB	13:M1:577:LEU:HA	2.22	0.63
9:I1:1297:LEU:O	9:I1:1301:ASN:ND2	2.31	0.63
9:I2:1305:LEU:CB	15:O3:263:GLN:HG2	2.29	0.63
17:Q1:332:LYS:HE2	17:Q1:352:TYR:CD2	2.33	0.63
17:Q1:443:TRP:CG	17:Q1:504:PHE:CG	2.82	0.63
17:Q2:144:ALA:HA	17:Q2:234:ARG:NH2	2.13	0.63
17:Q2:556:HIS:HA	17:Q2:559:VAL:HG23	1.80	0.63
17:Q2:696:LEU:HD13	17:Q2:696:LEU:O	1.98	0.63
17:Q2:1005:LEU:O	17:Q2:1005:LEU:HD13	1.99	0.63
17:Q2:1035:LYS:HE3	17:Q2:1083:LEU:HD13	1.80	0.63
18:R1:621:GLN:N	18:R1:670:LYS:HE2	2.13	0.63
20:S1:568:ALA:CA	21:T1:86:ASN:CG	2.46	0.63
26:Y1:1383:ALA:N	26:Y2:1364:ASN:ND2	2.46	0.63
26:Y2:1367:LYS:C	26:Y2:1383:ALA:HB3	2.17	0.63
27:Z1:164:ILE:HD13	27:Z1:277:ARG:CZ	2.28	0.63
27:Z2:45:TRP:CH2	27:Z2:47:ASN:N	2.66	0.63
27:Z2:112:PHE:CD1	27:Z2:156:ILE:HA	2.33	0.63
27:Z2:319:PHE:HZ	27:Z2:325:ILE:HD12	1.60	0.63
1:A3:871:ASN:HD22	4:D1:515:ASN:HD21	1.42	0.63
1:A3:1269:ALA:O	1:A4:729:SER:C	2.15	0.63
6:F1:166:THR:HG21	9:I1:1330:PHE:HE1	1.61	0.63
9:I1:1048:GLU:CG	14:N1:293:LYS:HZ1	2.09	0.63
9:I2:1098:LEU:HB3	15:O3:269:ILE:HA	0.65	0.63
9:I2:1160:ILE:CD1	15:O3:263:GLN:C	2.64	0.63
17:Q1:556:HIS:HA	17:Q1:559:VAL:CG2	2.28	0.63
17:Q1:870:VAL:CA	17:Q1:873:GLN:HG2	2.28	0.63
17:Q1:1078:LEU:CD2	17:Q1:1155:VAL:HG13	2.17	0.63
17:Q2:332:LYS:HE2	17:Q2:352:TYR:CD2	2.33	0.63
17:Q2:616:LYS:CB	17:Q2:630:THR:HG21	2.28	0.63
18:R1:533:LEU:HG	18:R1:537:PHE:CE2	2.34	0.63
18:R1:597:TYR:N	18:R1:620:LEU:HD23	2.13	0.63
19:R2:711:LEU:HA	19:R2:714:TYR:CE2	2.33	0.63
25:X1:803:ALA:N	26:Y1:1371:VAL:HG12	2.14	0.63
25:X2:690:GLN:HG3	27:Z2:7:LEU:HB3	1.80	0.63
25:X2:778:LYS:HD2	25:X2:795:LYS:CB	2.04	0.63
25:X2:778:LYS:CB	25:X2:794:ILE:H	2.12	0.63
25:X2:815:GLU:HA	26:Y2:1402:LEU:HD22	1.78	0.63
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:C	2.18	0.63
26:Y2:1345:LEU:HA	26:Y2:1348:LYS:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:47:ASN:ND2	27:Z2:95:TRP:HZ2	1.82	0.63
27:Z2:335:MET:SD	27:Z2:337:TRP:HZ3	2.17	0.63
6:F1:138:ILE:HD13	9:I1:1391:THR:HB	1.81	0.63
6:F1:273:ALA:N	9:I1:1209:THR:CA	2.61	0.63
6:F1:1263:MET:O	15:O2:251:ILE:CG2	2.47	0.63
17:Q1:72:LEU:CD1	17:Q1:110:ILE:HG22	2.29	0.63
17:Q1:104:LYS:HB3	17:Q1:120:ILE:CD1	2.28	0.63
17:Q1:991:LEU:HD23	17:Q1:991:LEU:O	1.99	0.63
17:Q1:1006:TYR:CB	17:Q1:1018:PRO:HG3	2.27	0.63
17:Q2:856:LYS:HB2	17:Q2:859:ASP:CA	2.28	0.63
18:R1:435:PHE:CB	18:R1:448:ILE:HG12	2.29	0.63
22:U1:81:VAL:HG23	22:U1:111:LEU:HD13	1.81	0.63
25:X1:717:LYS:O	25:X1:721:LEU:HG	1.99	0.63
25:X2:680:TYR:HE2	27:Z2:419:THR:O	1.72	0.63
25:X2:685:MET:CA	27:Z2:445:LEU:O	2.47	0.63
27:Z1:85:ASP:HA	27:Z1:127:ILE:HG13	1.80	0.63
27:Z1:210:PRO:O	27:Z1:212:LEU:CG	2.38	0.63
27:Z2:188:SER:HB3	27:Z2:193:THR:HB	1.81	0.63
9:I1:914:ASN:HD22	13:M1:537:LEU:C	2.00	0.63
9:I1:1246:ILE:HG13	15:O1:255:GLY:N	2.14	0.63
9:I2:640:ILE:O	9:I2:645:ARG:NH1	2.31	0.63
9:I2:813:ILE:HG22	15:O3:241:SER:HB2	0.68	0.63
9:I2:1095:TYR:CE1	15:O3:266:GLN:O	2.35	0.63
9:I2:1305:LEU:CG	15:O3:264:ILE:HD11	2.23	0.63
17:Q2:651:ASN:CA	17:Q2:654:VAL:HG22	2.29	0.63
17:Q2:1017:ILE:HB	17:Q2:1018:PRO:HD3	1.81	0.63
18:R1:409:LYS:NZ	18:R1:448:ILE:HA	1.97	0.63
19:R2:597:TYR:N	19:R2:620:LEU:HD23	2.13	0.63
19:R2:620:LEU:HD13	19:R2:620:LEU:O	1.98	0.63
19:R2:690:PHE:HA	19:R2:693:LEU:HD12	1.81	0.63
19:R2:707:SER:CA	19:R2:711:LEU:HD13	2.19	0.63
25:X1:637:LEU:N	25:X1:637:LEU:C	2.52	0.63
25:X1:640:LEU:CD1	26:Y1:1218:PHE:CE2	2.81	0.63
26:Y1:1404:GLU:O	26:Y1:1408:ARG:HG3	1.99	0.63
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:C	2.18	0.63
27:Z1:24:ARG:HD3	27:Z1:441:SER:N	2.14	0.63
27:Z1:188:SER:HB3	27:Z1:193:THR:HB	1.81	0.63
27:Z2:352:GLU:OE1	27:Z2:410:PHE:HE2	1.62	0.63
1:A1:833:VAL:HG21	1:A1:850:PRO:HD2	1.81	0.63
6:F1:141:ALA:CB	9:I1:1390:PHE:HD2	1.80	0.63
6:F1:176:ARG:CD	9:I1:1201:PHE:CZ	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:330:GLU:N	6:F1:330:GLU:OE1	2.32	0.63
6:F1:1053:LEU:HG	9:I1:1388:GLU:HG2	1.80	0.63
7:G2:250:THR:O	15:O4:252:VAL:HA	1.96	0.63
9:I1:1051:LYS:HD3	14:N1:289:PHE:CD2	2.24	0.63
9:I2:1254:VAL:CA	14:N3:408:MET:CA	2.76	0.63
9:I2:1254:VAL:CA	14:N3:411:GLN:N	2.62	0.63
9:I2:1360:GLU:N	9:I2:1360:GLU:OE1	2.32	0.63
17:Q1:98:LEU:HD23	17:Q1:99:VAL:N	2.13	0.63
17:Q1:386:PHE:HE2	17:Q1:566:ASN:ND2	1.96	0.63
17:Q1:532:LYS:HB2	17:Q1:581:PRO:HG3	1.80	0.63
17:Q1:538:ILE:HD13	17:Q1:567:PHE:HE1	1.59	0.63
17:Q1:745:ILE:CD1	17:Q1:800:GLN:HG3	2.28	0.63
17:Q1:856:LYS:HB2	17:Q1:859:ASP:CA	2.28	0.63
17:Q1:933:LEU:HD13	17:Q1:933:LEU:O	1.99	0.63
17:Q2:532:LYS:HB2	17:Q2:581:PRO:CG	2.29	0.63
17:Q2:573:LYS:HG3	17:Q2:574:ASN:N	2.14	0.63
17:Q2:604:ILE:HD13	17:Q2:672:LEU:HD11	1.80	0.63
17:Q2:938:ASN:H	17:Q2:938:ASN:HD22	1.47	0.63
25:X2:680:TYR:CD2	27:Z2:419:THR:O	2.51	0.63
25:X2:717:LYS:O	25:X2:721:LEU:HG	1.98	0.63
26:Y1:1371:VAL:CB	26:Y1:1372:LYS:HD3	2.19	0.63
27:Z1:630:TRP:CD1	27:Z1:634:ILE:CD1	2.82	0.63
27:Z1:630:TRP:CD1	27:Z1:634:ILE:HD11	2.32	0.63
27:Z2:252:GLN:OE1	27:Z2:334:SER:HA	1.99	0.63
27:Z2:630:TRP:CD1	27:Z2:634:ILE:CD1	2.82	0.63
6:F1:271:THR:OG1	9:I1:1200:ILE:HB	1.98	0.62
9:I1:910:LYS:NZ	13:M1:546:ARG:CA	2.62	0.62
9:I1:926:SER:HA	15:O1:184:ARG:NH1	2.13	0.62
9:I1:980:ILE:HG12	15:O1:176:ARG:N	2.14	0.62
9:I2:806:VAL:HG12	15:O3:244:GLU:O	1.98	0.62
9:I2:902:GLN:OE1	13:M3:580:LYS:HA	1.98	0.62
9:I2:956:ILE:O	16:P3:151:LYS:NZ	2.31	0.62
9:I2:1305:LEU:C	15:O3:264:ILE:CD1	2.67	0.62
9:I2:1308:THR:CG2	14:N3:414:ALA:CA	2.74	0.62
10:J1:252:LEU:CD1	15:O1:273:ASP:HB3	2.23	0.62
17:Q2:61:PHE:HE1	17:Q2:71:THR:HG1	1.47	0.62
17:Q2:104:LYS:HB3	17:Q2:120:ILE:CD1	2.28	0.62
17:Q2:630:THR:HG23	17:Q2:631:THR:N	2.13	0.62
17:Q2:745:ILE:CD1	17:Q2:800:GLN:HG3	2.28	0.62
17:Q2:922:LEU:HD11	19:R2:688:LEU:C	2.17	0.62
17:Q2:933:LEU:HD13	17:Q2:933:LEU:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:527:VAL:HB	18:R1:580:PHE:CD2	2.33	0.62
22:U2:85:GLU:HB2	22:U2:101:LEU:HD11	1.79	0.62
24:W1:829:SER:HA	24:W1:841:ALA:HB1	1.81	0.62
25:X1:742:GLN:NE2	25:X1:743:GLN:HG3	2.12	0.62
25:X2:686:ALA:O	27:Z2:8:SER:HB2	1.98	0.62
26:Y1:1403:ARG:HE	27:Z1:704:VAL:HG23	1.63	0.62
27:Z1:34:ARG:HB3	27:Z1:45:TRP:HZ2	1.63	0.62
27:Z1:252:GLN:OE1	27:Z1:334:SER:HA	1.99	0.62
27:Z1:263:TRP:CZ3	27:Z1:265:SER:CB	2.74	0.62
27:Z1:342:TYR:CE1	27:Z1:344:TYR:CE2	2.68	0.62
27:Z2:133:HIS:HE1	27:Z2:211:PHE:O	1.82	0.62
27:Z2:136:SER:O	27:Z2:217:LEU:CG	2.47	0.62
9:I1:1049:LEU:HD23	15:O1:170:LEU:CD2	2.22	0.62
9:I2:1035:GLN:NE2	16:P3:142:LEU:O	2.27	0.62
17:Q1:534:THR:O	17:Q1:537:GLU:HG2	1.98	0.62
17:Q1:556:HIS:HA	17:Q1:559:VAL:HG23	1.80	0.62
17:Q1:684:GLU:HA	17:Q1:688:THR:CB	2.29	0.62
17:Q1:696:LEU:HD13	17:Q1:696:LEU:O	1.98	0.62
17:Q1:973:LYS:C	17:Q1:973:LYS:HD2	2.19	0.62
17:Q2:991:LEU:O	17:Q2:991:LEU:HD23	1.99	0.62
22:U2:81:VAL:HG23	22:U2:111:LEU:HD13	1.81	0.62
25:X1:704:GLN:CD	27:Z1:598:LEU:HD12	2.19	0.62
26:Y1:1345:LEU:HA	26:Y1:1348:LYS:HG2	1.81	0.62
27:Z2:13:PHE:CD1	27:Z2:445:LEU:HD22	2.33	0.62
27:Z2:27:PHE:CE1	27:Z2:36:VAL:CB	2.63	0.62
1:A2:1224:PRO:HD3	1:A1:595:GLU:O	1.98	0.62
1:A2:1313:LYS:HZ3	1:A1:728:LYS:HZ1	0.67	0.62
1:A3:1091:VAL:HG13	4:D3:1100:PRO:CA	1.82	0.62
1:A3:1223:GLU:CB	1:A4:648:TYR:HE2	1.34	0.62
1:A3:1223:GLU:CD	1:A4:648:TYR:N	2.52	0.62
9:I1:911:PRO:HD2	15:O1:202:LEU:CD1	2.30	0.62
9:I2:843:GLU:H	15:O3:191:ARG:CZ	2.11	0.62
9:I2:968:PRO:HG2	14:N3:300:ALA:O	1.92	0.62
9:I2:1026:TYR:CZ	13:M3:609:GLY:C	2.72	0.62
9:I2:1033:PRO:CG	13:M3:616:LEU:C	2.57	0.62
9:I2:1102:GLN:HG2	15:O3:274:GLY:H	1.63	0.62
17:Q1:144:ALA:HA	17:Q1:234:ARG:NH2	2.13	0.62
17:Q1:276:LEU:HB2	17:Q1:280:THR:CG2	2.27	0.62
17:Q1:718:ILE:CG2	17:Q1:722:PHE:HE1	2.10	0.62
17:Q1:938:ASN:H	17:Q1:938:ASN:HD22	1.47	0.62
17:Q1:1005:LEU:HD13	17:Q1:1005:LEU:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:181:ILE:HG22	17:Q2:183:ASN:N	2.13	0.62
17:Q2:350:SER:HA	17:Q2:363:LEU:CD2	2.30	0.62
22:U1:248:LYS:HG2	25:X1:805:ARG:CB	2.28	0.62
25:X1:726:VAL:C	25:X1:726:VAL:HG12	2.20	0.62
25:X2:693:ILE:HD13	27:Z2:7:LEU:HD12	1.77	0.62
25:X2:695:GLN:C	27:Z2:48:VAL:CG1	2.67	0.62
25:X2:699:TYR:HE2	27:Z2:50:THR:HG23	1.62	0.62
25:X2:778:LYS:NZ	25:X2:795:LYS:CB	2.54	0.62
26:Y2:1317:TYR:CZ	27:Z1:48:VAL:O	2.52	0.62
26:Y2:1407:SER:O	26:Y2:1411:LEU:HG	1.98	0.62
27:Z1:24:ARG:HD3	27:Z1:441:SER:CA	2.30	0.62
27:Z1:252:GLN:CD	27:Z1:334:SER:HG	1.91	0.62
27:Z1:380:ILE:HG22	27:Z1:382:GLN:HG3	1.81	0.62
27:Z1:630:TRP:O	27:Z1:634:ILE:HG13	1.99	0.62
27:Z2:182:ILE:HD13	27:Z2:196:CYS:HB3	1.81	0.62
1:A2:1330:VAL:HG12	4:D1:879:ASP:OD2	1.99	0.62
1:A3:1396:GLY:O	4:D3:869:THR:CB	2.48	0.62
9:I2:906:GLY:HA2	13:M3:573:ARG:CG	2.27	0.62
9:I2:1051:LYS:CD	14:N3:289:PHE:CA	2.73	0.62
9:I2:1099:ARG:O	15:O3:272:SER:HA	1.99	0.62
9:I2:1116:ASP:OD1	10:J2:241:THR:HG23	2.00	0.62
9:I2:1433:THR:HG21	10:J2:270:ARG:HD3	1.81	0.62
17:Q1:338:PRO:HB3	17:Q1:347:PHE:CE2	2.33	0.62
17:Q2:973:LYS:C	17:Q2:973:LYS:HD2	2.20	0.62
21:T1:180:ASN:HA	21:T1:207:VAL:HG23	1.79	0.62
25:X1:815:GLU:HA	26:Y1:1402:LEU:HD22	1.78	0.62
25:X2:715:GLU:OE2	27:Z2:605:LEU:HD21	1.99	0.62
26:Y2:1310:VAL:HG12	26:Y2:1314:LYS:HE3	1.80	0.62
26:Y2:1369:PHE:HE2	27:Z2:683:LEU:HD22	1.59	0.62
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:CD2	2.82	0.62
27:Z1:212:LEU:HB3	27:Z1:272:ILE:HD13	1.81	0.62
27:Z1:288:ASN:ND2	27:Z1:289:PRO:N	2.46	0.62
27:Z1:440:MET:HG2	27:Z1:445:LEU:HD13	1.81	0.62
27:Z2:151:ILE:HD12	27:Z2:167:ASN:HD22	1.63	0.62
27:Z2:359:GLU:HB3	27:Z2:361:LYS:CE	2.29	0.62
1:A1:827:ILE:CB	1:A1:849:SER:CA	2.76	0.62
1:A4:127:HIS:CD2	4:D3:1006:ASP:C	2.54	0.62
1:A4:773:PHE:HZ	1:A4:818:LEU:HD12	1.61	0.62
9:I1:926:SER:CA	15:O1:184:ARG:HH11	2.11	0.62
9:I1:1227:GLU:N	9:I1:1227:GLU:OE1	2.32	0.62
9:I2:914:ASN:CB	15:O3:194:GLU:H	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:916:ALA:HB2	15:O3:192:HIS:CB	2.29	0.62
9:I2:1049:LEU:C	16:P3:142:LEU:H	1.98	0.62
9:I2:1254:VAL:CA	14:N3:408:MET:HA	2.29	0.62
17:Q1:57:ASN:O	17:Q1:73:GLN:HG3	2.00	0.62
17:Q1:284:TYR:CE1	17:Q1:347:PHE:HZ	2.16	0.62
17:Q1:532:LYS:HB2	17:Q1:581:PRO:CG	2.29	0.62
17:Q1:625:GLN:HG2	17:Q1:626:ASN:H	1.63	0.62
17:Q1:651:ASN:CA	17:Q1:654:VAL:HG22	2.29	0.62
17:Q1:869:ASP:HA	17:Q1:872:ILE:HD12	1.82	0.62
17:Q2:803:GLN:HB3	17:Q2:807:PHE:HE2	1.62	0.62
20:S2:300:LEU:HD23	20:S2:388:LEU:HD21	1.82	0.62
25:X1:715:GLU:OE2	27:Z1:605:LEU:HD21	1.99	0.62
25:X1:795:LYS:NZ	27:Z1:666:GLU:CG	2.60	0.62
25:X2:711:LEU:HD11	26:Y2:1309:ASP:OD2	2.00	0.62
26:Y2:1277:LYS:CE	27:Z2:571:ILE:CG1	2.61	0.62
27:Z1:182:ILE:HD13	27:Z1:196:CYS:HB3	1.81	0.62
27:Z1:381:ILE:CD1	27:Z1:424:PRO:HG3	2.28	0.62
27:Z1:401:ASP:OD2	27:Z2:263:TRP:CB	2.47	0.62
27:Z2:126:SER:H	27:Z2:147:GLU:CD	1.95	0.62
1:A2:1224:PRO:N	1:A1:594:LEU:O	2.32	0.62
1:A3:1272:GLY:HA2	1:A4:727:ASN:CB	2.29	0.62
7:G1:254:ASN:HD21	15:O2:250:LEU:CB	2.12	0.62
9:I1:965:ALA:CB	15:O1:185:ALA:HB2	2.27	0.62
9:I2:1046:HIS:HE1	14:N3:289:PHE:HE2	1.46	0.62
17:Q1:386:PHE:CE2	17:Q1:566:ASN:ND2	2.67	0.62
17:Q1:386:PHE:HE2	17:Q1:566:ASN:CG	1.95	0.62
17:Q1:703:THR:CA	17:Q1:707:PRO:HB2	2.30	0.62
17:Q1:725:PHE:CD1	17:Q1:744:LYS:HG3	2.35	0.62
17:Q1:903:LEU:O	17:Q1:907:THR:HG23	2.00	0.62
17:Q2:870:VAL:CA	17:Q2:873:GLN:HG2	2.28	0.62
17:Q2:1028:LEU:HB2	17:Q2:1029:LEU:HD12	1.82	0.62
22:U1:191:ALA:C	27:Z1:664:ARG:HH12	1.93	0.62
22:U1:289:GLN:CG	25:X1:794:ILE:O	2.47	0.62
22:U1:295:GLU:HB2	27:Z1:657:TYR:CE2	2.34	0.62
24:W1:119:VAL:HB	24:W1:131:LEU:HB2	1.81	0.62
25:X1:711:LEU:HD11	26:Y1:1309:ASP:OD2	2.00	0.62
25:X2:692:LYS:CD	27:Z2:10:LEU:HB2	2.26	0.62
25:X2:777:ASN:CA	25:X2:793:LEU:HB2	2.29	0.62
25:X2:789:GLU:HB2	27:Z2:680:TRP:CZ3	2.34	0.62
26:Y1:1310:VAL:HG12	26:Y1:1314:LYS:HE3	1.80	0.62
27:Z1:136:SER:O	27:Z1:217:LEU:CG	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:630:TRP:O	27:Z2:634:ILE:HG13	1.99	0.62
1:A3:1086:LYS:CB	4:D3:1096:TYR:CD1	2.63	0.62
1:A3:1223:GLU:CB	1:A4:648:TYR:HD2	1.27	0.62
6:F1:272:GLU:N	9:I1:1209:THR:N	2.47	0.62
9:I1:26:GLU:N	9:I1:26:GLU:OE1	2.33	0.62
9:I1:900:ARG:HG3	13:M1:577:LEU:C	2.18	0.62
9:I2:961:ARG:CG	16:P3:155:GLU:C	2.68	0.62
9:I2:1029:LEU:CG	13:M3:613:ASP:CG	2.59	0.62
17:Q2:276:LEU:HB2	17:Q2:280:THR:CG2	2.26	0.62
17:Q2:1105:ASP:O	17:Q2:1109:ILE:HD12	1.99	0.62
23:V1:170:ASN:O	23:V1:174:GLU:HG3	1.99	0.62
23:V1:515:THR:HG22	23:V1:516:ASN:H	1.65	0.62
25:X2:708:GLU:HG2	27:Z2:598:LEU:CD2	2.24	0.62
26:Y1:1410:GLN:H	27:Z1:711:LYS:NZ	1.97	0.62
26:Y2:1298:TYR:CB	27:Z2:588:TRP:CH2	2.83	0.62
26:Y2:1332:LYS:CG	27:Z1:97:TYR:N	2.62	0.62
26:Y2:1404:GLU:O	26:Y2:1408:ARG:HG3	1.99	0.62
27:Z1:27:PHE:CE1	27:Z1:36:VAL:HB	2.33	0.62
27:Z1:637:GLN:HA	27:Z1:640:GLN:HG2	1.80	0.62
27:Z2:138:ARG:HH11	27:Z2:138:ARG:HG3	1.65	0.62
27:Z2:197:LEU:HB2	27:Z2:302:ILE:CG2	2.29	0.62
27:Z2:216:LEU:HG	27:Z2:272:ILE:HD12	1.66	0.62
27:Z2:342:TYR:CD2	27:Z2:344:TYR:CD2	2.86	0.62
1:A3:1273:ALA:N	1:A4:730:THR:HG21	2.14	0.62
9:I1:1048:GLU:HG2	15:O1:167:ASN:CA	2.29	0.62
9:I1:1357:LYS:NZ	15:O1:263:GLN:CB	2.36	0.62
9:I1:1360:GLU:N	9:I1:1360:GLU:OE1	2.32	0.62
9:I2:1164:ALA:HB3	15:O3:266:GLN:O	1.88	0.62
17:Q1:291:ILE:CD1	17:Q1:311:ASN:HB2	2.29	0.62
17:Q1:382:ARG:C	17:Q1:508:ASN:HA	1.91	0.62
17:Q1:1017:ILE:HB	17:Q1:1018:PRO:HD3	1.81	0.62
17:Q2:291:ILE:CD1	17:Q2:311:ASN:HB2	2.29	0.62
17:Q2:332:LYS:HE3	17:Q2:334:TRP:CE2	2.35	0.62
17:Q2:780:LEU:O	17:Q2:780:LEU:HD23	2.00	0.62
17:Q2:869:ASP:HA	17:Q2:872:ILE:HD12	1.82	0.62
19:R2:621:GLN:N	19:R2:670:LYS:HE2	2.13	0.62
22:U1:85:GLU:HB2	22:U1:101:LEU:HD11	1.80	0.62
23:V2:515:THR:HG22	23:V2:516:ASN:H	1.65	0.62
25:X1:811:SER:HG	27:Z1:701:LEU:CD1	1.88	0.62
25:X2:680:TYR:OH	27:Z2:439:LEU:HD12	1.99	0.62
25:X2:695:GLN:CA	27:Z2:431:TRP:HE3	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1412:GLU:HG3	27:Z1:254:GLN:CB	2.23	0.62
27:Z1:34:ARG:HB3	27:Z1:45:TRP:CZ2	2.35	0.62
27:Z1:197:LEU:HB2	27:Z1:302:ILE:CG2	2.29	0.62
27:Z1:250:ILE:O	27:Z1:254:GLN:HG2	2.00	0.62
27:Z1:294:LEU:HD21	27:Z1:353:ARG:CZ	2.26	0.62
27:Z1:304:THR:HG23	27:Z1:313:GLU:OE1	1.98	0.62
27:Z1:352:GLU:O	27:Z1:352:GLU:CG	2.40	0.62
27:Z1:383:GLN:CD	27:Z1:417:ILE:HG21	2.18	0.62
27:Z2:119:GLU:CA	27:Z2:120:GLU:N	2.58	0.62
27:Z2:210:PRO:O	27:Z2:212:LEU:CG	2.38	0.62
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HG11	2.27	0.62
27:Z2:380:ILE:HG22	27:Z2:382:GLN:HG3	1.81	0.62
1:A3:1204:TRP:CD1	1:A4:595:GLU:CG	2.73	0.62
6:F1:163:ASP:OD2	9:I1:1331:LYS:CG	2.40	0.62
9:I1:844:LYS:HZ1	13:M1:539:ALA:CB	2.13	0.62
9:I2:900:ARG:HD3	15:O3:235:ASN:CA	2.13	0.62
9:I2:961:ARG:HD2	16:P3:155:GLU:C	2.20	0.62
17:Q1:573:LYS:HG3	17:Q1:574:ASN:N	2.14	0.62
17:Q2:279:GLY:HA3	17:Q2:299:ALA:HA	1.82	0.62
17:Q2:464:SER:HB2	17:Q2:477:PHE:O	2.00	0.62
17:Q2:725:PHE:CD1	17:Q2:744:LYS:HG3	2.35	0.62
17:Q2:942:ASN:O	17:Q2:946:LYS:HG3	2.00	0.62
18:R1:538:LEU:CA	18:R1:546:LEU:HD11	2.29	0.62
22:U1:209:PRO:CD	27:Z1:663:THR:H	2.12	0.62
24:W1:91:LYS:NZ	24:W1:142:ALA:O	2.30	0.62
25:X1:789:GLU:HG3	25:X1:789:GLU:O	1.99	0.62
25:X2:658:TYR:HD1	26:Y2:1239:PHE:CE1	2.18	0.62
26:Y1:1298:TYR:CB	27:Z1:588:TRP:CH2	2.82	0.62
27:Z1:145:LEU:CD1	27:Z1:182:ILE:HG21	2.29	0.62
27:Z1:149:ASP:OD1	27:Z1:182:ILE:CB	2.48	0.62
27:Z1:342:TYR:CD2	27:Z1:344:TYR:CD2	2.86	0.62
27:Z2:102:ASP:HB3	27:Z2:105:ILE:CG1	2.29	0.62
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ2	2.08	0.62
27:Z2:361:LYS:HZ2	27:Z2:378:ASP:HB2	1.55	0.62
1:A3:1204:TRP:HD1	1:A4:595:GLU:CD	2.03	0.62
1:A3:1273:ALA:HA	1:A4:642:ARG:NH1	2.14	0.62
1:A3:1332:ARG:CZ	4:D3:899:THR:CG2	2.77	0.62
6:F1:138:ILE:HG12	9:I1:1388:GLU:C	2.19	0.62
6:F1:273:ALA:N	9:I1:1209:THR:CB	2.63	0.62
9:I2:899:LEU:HD13	13:M3:582:THR:C	2.20	0.62
9:I2:960:SER:CB	16:P3:154:ALA:H	1.96	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J1:249:ASP:OD2	15:O1:275:LEU:CG	2.32	0.62
17:Q1:670:THR:C	17:Q1:743:LEU:HD11	2.21	0.62
17:Q1:700:GLU:CD	17:Q1:758:ILE:HA	2.21	0.62
18:R1:511:ILE:HG13	18:R1:549:PHE:CD1	2.34	0.62
19:R2:533:LEU:HD23	19:R2:549:PHE:CE1	2.34	0.62
22:U1:209:PRO:CA	27:Z1:663:THR:OG1	2.43	0.62
22:U1:243:PHE:CE2	27:Z1:660:SER:CB	2.82	0.62
23:V2:265:ILE:HG21	23:V2:289:ILE:HD11	1.81	0.62
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HZ2	2.05	0.62
26:Y1:1453:PHE:CD2	27:Z1:328:PHE:CE2	2.88	0.62
27:Z1:544:THR:HB	27:Z2:554:HIS:CG	2.34	0.62
27:Z2:117:ASP:HA	27:Z2:124:LYS:HE2	1.76	0.62
27:Z2:126:SER:C	27:Z2:147:GLU:OE2	2.37	0.62
27:Z2:212:LEU:HB3	27:Z2:272:ILE:HD13	1.81	0.62
27:Z2:328:PHE:HZ	27:Z2:349:VAL:HG11	1.65	0.62
1:A3:1223:GLU:O	1:A4:594:LEU:HD21	1.90	0.61
1:A3:1273:ALA:H	1:A4:730:THR:CG2	2.13	0.61
1:A3:1328:ARG:HB3	4:D3:891:TYR:HE1	1.65	0.61
9:I1:961:ARG:NH1	15:O1:190:ARG:CB	2.63	0.61
9:I1:1050:SER:OG	14:N1:293:LYS:CB	2.47	0.61
9:I1:1644:ARG:HD3	10:J1:275:PHE:CZ	2.34	0.61
9:I2:26:GLU:N	9:I2:26:GLU:OE1	2.33	0.61
9:I2:1049:LEU:CD1	16:P3:141:ALA:O	2.41	0.61
17:Q1:404:MET:HG3	17:Q1:405:GLU:N	2.13	0.61
17:Q1:444:GLU:O	17:Q1:504:PHE:CD1	2.49	0.61
17:Q2:449:LEU:HD23	17:Q2:453:ILE:HG21	1.82	0.61
17:Q2:700:GLU:CD	17:Q2:758:ILE:HA	2.21	0.61
17:Q2:837:ASN:HA	17:Q2:842:GLU:CB	2.30	0.61
17:Q2:1090:LEU:HD13	17:Q2:1110:ARG:HG3	1.81	0.61
18:R1:701:ILE:HG22	18:R1:705:PHE:CE1	2.34	0.61
19:R2:511:ILE:HG13	19:R2:549:PHE:CD1	2.34	0.61
19:R2:533:LEU:HG	19:R2:537:PHE:CE2	2.34	0.61
20:S1:519:LEU:O	20:S1:529:ASN:ND2	2.34	0.61
25:X2:686:ALA:O	27:Z2:8:SER:CB	2.48	0.61
27:Z1:13:PHE:CD1	27:Z1:445:LEU:HD22	2.33	0.61
27:Z2:13:PHE:CE1	27:Z2:445:LEU:CB	2.83	0.61
27:Z2:145:LEU:CD1	27:Z2:182:ILE:HG21	2.29	0.61
27:Z2:149:ASP:OD1	27:Z2:182:ILE:CB	2.48	0.61
27:Z2:218:LEU:HB3	27:Z2:223:LEU:HG	1.82	0.61
27:Z2:630:TRP:HE1	27:Z2:634:ILE:HD11	1.57	0.61
9:I1:904:GLU:HG3	13:M1:577:LEU:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:916:ALA:CB	14:N1:315:VAL:HG22	2.30	0.61
9:I1:1357:LYS:HE2	15:O1:263:GLN:HA	1.82	0.61
9:I2:1227:GLU:N	9:I2:1227:GLU:OE1	2.33	0.61
17:Q1:279:GLY:HA3	17:Q1:299:ALA:HA	1.82	0.61
17:Q1:464:SER:HB2	17:Q1:477:PHE:O	2.00	0.61
17:Q1:549:MET:CE	17:Q1:629:LEU:HB2	2.29	0.61
17:Q1:646:PHE:CE2	17:Q1:669:VAL:HB	2.35	0.61
17:Q2:264:ASN:CB	17:Q2:289:LYS:HB2	2.30	0.61
17:Q2:666:LYS:O	17:Q2:670:THR:HG23	2.00	0.61
17:Q2:670:THR:C	17:Q2:743:LEU:HD11	2.20	0.61
17:Q2:852:ILE:HD13	17:Q2:913:LYS:HZ2	1.60	0.61
17:Q2:903:LEU:O	17:Q2:907:THR:HG23	2.00	0.61
18:R1:690:PHE:HA	18:R1:693:LEU:HD12	1.81	0.61
19:R2:539:LEU:HD22	19:R2:658:LEU:HD22	1.82	0.61
20:S1:571:ALA:CB	21:T1:86:ASN:CG	2.67	0.61
20:S2:574:THR:CB	21:T2:86:ASN:HB3	2.30	0.61
22:U1:289:GLN:NE2	25:X1:794:ILE:HA	2.14	0.61
25:X2:655:PHE:CZ	27:Z2:545:LEU:C	2.74	0.61
27:Z1:207:ALA:HB2	27:Z1:285:PHE:HZ	1.65	0.61
27:Z2:12:ILE:CD1	27:Z2:54:TYR:CB	2.72	0.61
27:Z2:37:PHE:HE1	27:Z2:440:MET:HE2	1.64	0.61
7:G2:251:TYR:O	15:O4:252:VAL:HA	2.01	0.61
9:I1:924:ILE:HG12	15:O1:187:ASN:HD21	1.64	0.61
9:I1:1051:LYS:HE2	14:N1:289:PHE:CZ	2.30	0.61
9:I2:1644:ARG:HD3	10:J2:275:PHE:CZ	2.35	0.61
17:Q1:780:LEU:O	17:Q1:780:LEU:HD23	2.00	0.61
17:Q2:57:ASN:O	17:Q2:73:GLN:HG3	2.00	0.61
17:Q2:584:LYS:NZ	17:Q2:590:LYS:HB2	2.15	0.61
17:Q2:615:GLU:HB2	17:Q2:645:ILE:CG2	2.31	0.61
17:Q2:703:THR:HA	17:Q2:707:PRO:CG	2.30	0.61
17:Q2:703:THR:CA	17:Q2:707:PRO:HB2	2.30	0.61
17:Q2:705:LYS:HZ2	17:Q2:710:ILE:HG21	1.64	0.61
17:Q2:971:ILE:HD11	17:Q2:984:PHE:CD2	2.35	0.61
18:R1:534:SER:CA	18:R1:546:LEU:HD22	2.29	0.61
24:W2:119:VAL:HB	24:W2:131:LEU:HB2	1.82	0.61
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CE1	2.34	0.61
26:Y2:1298:TYR:HB2	27:Z2:588:TRP:CZ3	2.36	0.61
26:Y2:1372:LYS:O	26:Y2:1382:VAL:N	2.33	0.61
27:Z1:124:LYS:CD	27:Z1:126:SER:N	2.54	0.61
27:Z1:359:GLU:HG2	27:Z1:361:LYS:CE	2.29	0.61
27:Z1:359:GLU:HB3	27:Z1:361:LYS:CE	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CG	2.35	0.61
27:Z2:250:ILE:O	27:Z2:254:GLN:HG2	2.00	0.61
27:Z2:263:TRP:CZ3	27:Z2:265:SER:HB3	2.32	0.61
1:A3:1091:VAL:CG1	4:D3:1100:PRO:CG	2.79	0.61
1:A3:1223:GLU:CB	1:A4:648:TYR:CD2	0.74	0.61
1:A4:833:VAL:HG21	1:A4:850:PRO:HD2	1.81	0.61
6:F1:142:ALA:CB	9:I1:1395:LEU:CG	2.74	0.61
6:F2:330:GLU:N	6:F2:330:GLU:OE1	2.32	0.61
7:G2:254:ASN:HB3	15:O4:253:LEU:N	1.87	0.61
9:I1:911:PRO:CB	13:M1:541:LEU:HD21	2.26	0.61
9:I1:1433:THR:HG21	10:J1:270:ARG:HD3	1.82	0.61
9:I2:961:ARG:HG3	16:P3:155:GLU:N	2.16	0.61
9:I2:1028:CYS:N	13:M3:612:PRO:O	2.33	0.61
9:I2:1034:ASP:OD2	13:M3:622:VAL:CG2	2.48	0.61
9:I2:1098:LEU:CA	15:O3:269:ILE:HA	2.29	0.61
13:M3:476:THR:HG21	14:N4:323:ARG:CD	2.30	0.61
17:Q1:598:ILE:CB	17:Q1:636:ILE:HD13	2.24	0.61
17:Q1:971:ILE:HD11	17:Q1:984:PHE:CD2	2.35	0.61
17:Q2:72:LEU:CD1	17:Q2:110:ILE:HG22	2.29	0.61
17:Q2:341:ASP:HB3	17:Q2:404:MET:O	2.01	0.61
18:R1:402:GLY:N	18:R1:444:ALA:HB3	2.08	0.61
18:R1:621:GLN:HB3	18:R1:670:LYS:CE	2.31	0.61
19:R2:213:CYS:SG	20:S2:332:ARG:NH1	2.73	0.61
20:S1:300:LEU:HD23	20:S1:388:LEU:HD21	1.82	0.61
25:X1:640:LEU:CD1	26:Y1:1218:PHE:CZ	2.77	0.61
25:X2:694:ASP:CA	27:Z2:432:ASN:N	2.63	0.61
25:X2:695:GLN:HE21	27:Z2:429:ILE:CG2	2.08	0.61
25:X2:700:ILE:CD1	26:Y2:1298:TYR:HD1	2.07	0.61
27:Z1:531:ILE:HD11	27:Z2:541:LYS:CG	2.31	0.61
27:Z2:85:ASP:HA	27:Z2:127:ILE:HG13	1.81	0.61
6:F1:138:ILE:HD13	9:I1:1388:GLU:O	2.00	0.61
6:F1:267:GLU:O	9:I1:1202:VAL:CG2	2.48	0.61
6:F1:1807:GLU:CA	14:N2:411:GLN:HE22	2.14	0.61
9:I1:911:PRO:N	13:M1:545:GLU:HG2	2.10	0.61
9:I1:915:ALA:CB	15:O1:196:SER:CA	2.43	0.61
9:I1:961:ARG:HD2	15:O1:186:PHE:C	2.19	0.61
9:I1:966:TRP:CE2	15:O1:183:VAL:HG11	2.28	0.61
9:I1:979:ALA:HB3	15:O1:179:LEU:HB2	1.83	0.61
9:I2:1162:TYR:HB3	15:O3:266:GLN:HE21	1.54	0.61
17:Q1:814:LEU:HD12	17:Q1:815:VAL:CG1	2.30	0.61
25:X1:655:PHE:CZ	27:Z1:545:LEU:C	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:692:LYS:O	27:Z2:431:TRP:HE3	1.74	0.61
25:X2:692:LYS:N	27:Z2:431:TRP:NE1	2.44	0.61
25:X2:694:ASP:C	27:Z2:431:TRP:C	2.56	0.61
26:Y1:1453:PHE:HB2	27:Z1:349:VAL:HG11	1.83	0.61
26:Y2:1453:PHE:CD2	27:Z2:328:PHE:CE2	2.88	0.61
27:Z1:73:SER:O	27:Z1:73:SER:OG	2.18	0.61
27:Z1:395:LYS:HE2	27:Z2:267:PHE:H	1.64	0.61
27:Z1:635:ARG:O	27:Z1:639:LEU:HG	2.00	0.61
27:Z2:10:LEU:HD21	27:Z2:431:TRP:HH2	1.11	0.61
27:Z2:164:ILE:HD13	27:Z2:277:ARG:CZ	2.28	0.61
27:Z2:635:ARG:O	27:Z2:639:LEU:HG	2.00	0.61
1:A3:1091:VAL:HA	4:D3:1100:PRO:HG2	1.82	0.61
1:A4:1026:PRO:HB3	4:D3:670:ASP:HB2	1.82	0.61
9:I2:843:GLU:OE2	15:O3:191:ARG:HD2	1.96	0.61
9:I2:909:ARG:HB3	13:M3:580:LYS:HE3	1.82	0.61
9:I2:1035:GLN:HB3	16:P3:147:LEU:HB2	1.83	0.61
10:J2:248:VAL:HG13	14:N3:428:ASP:OD2	2.00	0.61
17:Q1:1034:LYS:O	17:Q1:1034:LYS:HD2	2.01	0.61
17:Q2:134:VAL:HG12	17:Q2:135:ALA:N	2.16	0.61
17:Q2:194:HIS:HB3	17:Q2:242:LEU:HD21	1.81	0.61
17:Q2:805:ALA:CB	17:Q2:815:VAL:HG11	2.30	0.61
17:Q2:814:LEU:HD12	17:Q2:815:VAL:CG1	2.30	0.61
17:Q2:999:LEU:HD13	17:Q2:999:LEU:O	2.00	0.61
18:R1:539:LEU:HD22	18:R1:658:LEU:HD22	1.82	0.61
19:R2:538:LEU:CA	19:R2:546:LEU:HD11	2.30	0.61
26:Y1:1218:PHE:CD1	26:Y1:1222:GLU:CD	2.73	0.61
26:Y1:1298:TYR:HB2	27:Z1:588:TRP:CZ3	2.36	0.61
26:Y2:1410:GLN:H	27:Z2:711:LYS:NZ	1.97	0.61
27:Z1:352:GLU:OE1	27:Z1:410:PHE:HE2	1.62	0.61
27:Z1:437:LEU:CG	27:Z1:450:ILE:CD1	2.39	0.61
27:Z2:12:ILE:HG21	27:Z2:46:TYR:HD2	1.64	0.61
27:Z2:57:LEU:HD22	27:Z2:109:PHE:HE2	1.60	0.61
27:Z2:679:GLU:N	27:Z2:679:GLU:HB2	2.15	0.61
1:A2:862:LEU:HD11	1:A2:904:GLN:HB3	1.83	0.61
1:A2:1224:PRO:O	1:A1:598:VAL:HG21	2.00	0.61
1:A3:1221:ILE:CG1	1:A4:592:ASP:O	2.47	0.61
1:A4:581:LYS:HZ2	4:D3:1031:ARG:NH2	1.98	0.61
4:D1:1030:ALA:CB	1:A1:633:MET:CE	2.79	0.61
9:I1:754:ARG:N	13:M1:556:MET:CE	2.60	0.61
9:I1:1455:ARG:O	9:I1:1459:ASN:ND2	2.33	0.61
9:I2:960:SER:HB2	16:P3:154:ALA:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:976:ARG:HA	14:N3:296:GLY:O	1.99	0.61
17:Q1:383:LEU:N	17:Q1:508:ASN:HA	2.15	0.61
17:Q1:538:ILE:HG21	17:Q1:567:PHE:CZ	2.35	0.61
17:Q1:666:LYS:O	17:Q1:670:THR:HG23	2.00	0.61
17:Q1:703:THR:HA	17:Q1:707:PRO:CG	2.30	0.61
17:Q1:923:HIS:HA	17:Q1:926:VAL:CG1	2.30	0.61
17:Q2:538:ILE:HD13	17:Q2:567:PHE:HE1	1.60	0.61
17:Q2:584:LYS:HE2	17:Q2:708:TRP:CH2	2.35	0.61
18:R1:213:CYS:SG	20:S1:332:ARG:NH1	2.73	0.61
22:U1:293:GLN:OE1	26:Y1:1367:LYS:HE3	1.91	0.61
22:U1:294:VAL:O	27:Z1:658:LEU:HD21	1.89	0.61
23:V2:170:ASN:O	23:V2:174:GLU:HG3	2.00	0.61
26:Y1:1433:GLY:O	26:Y2:1429:LYS:NZ	2.20	0.61
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:HG2	1.80	0.61
27:Z2:630:TRP:CD1	27:Z2:634:ILE:HD11	2.32	0.61
1:A3:1400:SER:CB	4:D3:869:THR:O	2.48	0.61
6:F1:135:VAL:HG11	9:I1:1336:MET:HG3	1.36	0.61
9:I1:904:GLU:OE2	13:M1:577:LEU:CD1	2.49	0.61
9:I1:917:TYR:N	15:O1:195:LEU:HD12	2.13	0.61
9:I2:806:VAL:HG13	15:O3:247:TRP:HB2	0.63	0.61
17:Q1:291:ILE:HD11	17:Q1:311:ASN:HD22	1.66	0.61
17:Q1:805:ALA:CB	17:Q1:815:VAL:HG11	2.30	0.61
17:Q2:618:LEU:O	17:Q2:618:LEU:HD23	2.01	0.61
17:Q2:646:PHE:CE2	17:Q2:669:VAL:HB	2.36	0.61
17:Q2:671:ASN:O	17:Q2:675:LEU:HG	2.01	0.61
17:Q2:923:HIS:HA	17:Q2:926:VAL:CG1	2.30	0.61
17:Q2:1034:LYS:HD2	17:Q2:1034:LYS:C	2.21	0.61
19:R2:625:LYS:HA	19:R2:628:PHE:CE1	2.35	0.61
26:Y2:1211:LEU:HB2	26:Y2:1214:ILE:HD12	1.82	0.61
26:Y2:1218:PHE:CD1	26:Y2:1222:GLU:CD	2.73	0.61
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:HE3	1.79	0.61
27:Z1:133:HIS:HE1	27:Z1:211:PHE:O	1.83	0.61
27:Z1:141:CYS:SG	27:Z1:213:PRO:HB3	2.41	0.61
27:Z1:263:TRP:CZ3	27:Z1:265:SER:HB3	2.32	0.61
27:Z2:669:THR:HG1	27:Z2:680:TRP:HH2	1.49	0.61
1:A2:1277:TRP:HB3	1:A1:642:ARG:HH12	1.65	0.61
1:A3:1221:ILE:CD1	1:A4:596:ARG:NE	2.63	0.61
6:F1:166:THR:CG2	9:I1:1330:PHE:HE1	2.14	0.61
6:F1:982:PRO:HG3	9:I1:1455:ARG:HB3	1.81	0.61
9:I1:966:TRP:CD1	15:O1:183:VAL:HG12	2.35	0.61
9:I1:1116:ASP:OD1	10:J1:241:THR:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1668:HIS:CD2	9:I2:1670:GLY:HA3	2.36	0.61
9:I2:1455:ARG:O	9:I2:1459:ASN:ND2	2.33	0.61
17:Q1:332:LYS:HE3	17:Q1:334:TRP:CE2	2.35	0.61
17:Q1:509:ALA:HA	17:Q1:516:LEU:CD1	2.12	0.61
17:Q1:615:GLU:CA	17:Q1:645:ILE:HG12	2.31	0.61
17:Q1:837:ASN:HA	17:Q1:842:GLU:CB	2.31	0.61
17:Q1:942:ASN:O	17:Q1:946:LYS:HG3	2.00	0.61
17:Q1:999:LEU:HD13	17:Q1:999:LEU:O	2.00	0.61
17:Q2:467:VAL:HG13	17:Q2:475:LEU:HD13	1.83	0.61
17:Q2:870:VAL:O	17:Q2:873:GLN:HG2	2.01	0.61
20:S2:519:LEU:O	20:S2:529:ASN:ND2	2.34	0.61
25:X1:658:TYR:CE2	25:X1:662:ILE:CD1	2.77	0.61
25:X2:697:LEU:CA	27:Z2:432:ASN:ND2	2.64	0.61
25:X2:699:TYR:CE1	27:Z2:49:LEU:CD2	2.48	0.61
25:X2:699:TYR:CD2	27:Z2:49:LEU:CD1	2.70	0.61
25:X2:778:LYS:HG2	25:X2:793:LEU:C	2.21	0.61
26:Y1:1230:GLU:HG3	26:Y1:1233:ARG:HH22	1.57	0.61
27:Z1:218:LEU:HB3	27:Z1:223:LEU:HG	1.83	0.61
27:Z1:328:PHE:CE1	27:Z1:330:ASP:HB2	2.35	0.61
27:Z2:314:ILE:HG22	27:Z2:326:LEU:HD12	1.79	0.61
27:Z2:328:PHE:CE1	27:Z2:330:ASP:HB2	2.35	0.61
1:A3:1224:PRO:HB3	1:A4:591:ASP:O	2.01	0.61
6:F1:272:GLU:HB3	9:I1:1209:THR:N	2.12	0.61
6:F1:1263:MET:O	15:O2:251:ILE:HG21	1.99	0.61
7:G2:254:ASN:CB	15:O4:256:TYR:HB2	2.31	0.61
9:I1:981:VAL:HG11	15:O1:176:ARG:CD	2.31	0.61
9:I2:408:PRO:O	9:I2:409:SER:OG	2.16	0.61
10:J1:252:LEU:HD22	15:O1:269:ILE:C	2.21	0.61
17:Q1:141:THR:HG22	17:Q1:163:GLY:C	2.21	0.61
17:Q1:443:TRP:CD1	17:Q1:504:PHE:CG	2.89	0.61
17:Q1:532:LYS:CB	17:Q1:581:PRO:HD3	2.30	0.61
17:Q1:915:GLU:HG3	17:Q1:919:GLU:HB2	1.83	0.61
17:Q2:494:VAL:O	17:Q2:498:VAL:HG12	2.01	0.61
17:Q2:933:LEU:HD23	19:R2:711:LEU:CB	2.31	0.61
23:V1:148:MET:HE3	23:V1:152:LEU:HG	1.83	0.61
23:V2:148:MET:HE3	23:V2:152:LEU:HG	1.83	0.61
24:W1:400:LYS:HE2	24:W1:716:GLU:CB	2.28	0.61
24:W1:403:ASP:CB	24:W1:723:PHE:CB	2.79	0.61
24:W2:829:SER:HA	24:W2:841:ALA:HB1	1.81	0.61
25:X1:701:GLU:O	25:X1:704:GLN:HB2	2.01	0.61
26:Y1:1294:LYS:HE2	27:Z1:588:TRP:HD1	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1453:PHE:HD2	27:Z2:328:PHE:CE2	2.19	0.61
27:Z1:126:SER:CA	27:Z1:147:GLU:OE2	2.49	0.61
27:Z1:207:ALA:HB2	27:Z1:285:PHE:CZ	2.36	0.61
27:Z2:363:LEU:CD1	27:Z2:373:LEU:CD2	2.32	0.61
1:A3:1223:GLU:HB2	1:A4:648:TYR:CD2	0.31	0.60
1:A3:1272:GLY:HA2	1:A4:727:ASN:HB3	1.82	0.60
1:A4:1048:ARG:HH12	4:D4:1095:ARG:NH1	1.98	0.60
4:D1:673:LEU:CD2	1:A1:1094:ILE:HG21	2.31	0.60
9:I1:702:GLN:HG3	13:M1:553:ALA:HB1	1.83	0.60
9:I1:919:ALA:O	15:O1:191:ARG:NE	2.34	0.60
9:I1:1048:GLU:OE1	15:O1:168:ALA:CA	2.49	0.60
9:I2:527:THR:O	9:I2:531:ASN:ND2	2.34	0.60
9:I2:925:LEU:CG	15:O3:186:PHE:HB3	2.13	0.60
9:I2:961:ARG:HD2	16:P3:157:GLU:HG2	1.83	0.60
9:I2:963:LEU:N	16:P3:151:LYS:CD	2.64	0.60
9:I2:976:ARG:CZ	16:P3:141:ALA:CB	2.79	0.60
17:Q1:60:VAL:HG23	17:Q1:68:ILE:CD1	2.18	0.60
17:Q1:104:LYS:HA	17:Q1:123:PRO:HD2	1.83	0.60
17:Q1:264:ASN:CB	17:Q1:289:LYS:HB2	2.29	0.60
17:Q1:305:THR:HG22	17:Q1:306:LYS:N	2.16	0.60
17:Q1:341:ASP:HB3	17:Q1:404:MET:O	2.01	0.60
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:CD	2.09	0.60
17:Q1:1035:LYS:HE3	17:Q1:1083:LEU:HD13	1.80	0.60
17:Q2:646:PHE:CZ	17:Q2:669:VAL:HG12	2.36	0.60
17:Q2:671:ASN:HA	17:Q2:743:LEU:HD11	1.83	0.60
17:Q2:718:ILE:HG22	17:Q2:722:PHE:CE1	2.35	0.60
19:R2:621:GLN:HB3	19:R2:670:LYS:CE	2.31	0.60
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CE1	2.34	0.60
25:X1:776:PHE:CE2	26:Y1:1369:PHE:CE1	2.89	0.60
25:X2:637:LEU:C	27:Z2:528:PHE:CE1	2.74	0.60
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:C	2.19	0.60
26:Y2:1334:LEU:CD1	27:Z1:108:ALA:H	2.00	0.60
26:Y2:1368:LEU:HB3	26:Y2:1382:VAL:O	1.98	0.60
26:Y2:1372:LYS:NZ	27:Z2:679:GLU:OE1	2.29	0.60
27:Z1:395:LYS:NZ	27:Z2:267:PHE:CB	1.72	0.60
27:Z1:401:ASP:OD1	27:Z2:260:HIS:O	2.17	0.60
27:Z1:580:LYS:O	27:Z1:584:GLN:HG3	2.01	0.60
27:Z2:126:SER:CA	27:Z2:147:GLU:OE2	2.49	0.60
6:F1:982:PRO:CG	9:I1:1455:ARG:HB3	2.31	0.60
6:F1:1265:GLN:CA	15:O2:252:VAL:CG2	2.80	0.60
6:F2:139:GLN:HE22	9:I2:1337:ALA:CA	1.94	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:1267:ARG:NH1	15:O4:262:ASP:HB3	2.05	0.60
9:I1:917:TYR:O	15:O1:190:ARG:O	2.16	0.60
10:J1:250:THR:HB	15:O1:276:GLY:O	2.01	0.60
17:Q1:288:ASN:ND2	17:Q1:332:LYS:HG2	2.16	0.60
17:Q1:1034:LYS:HD2	17:Q1:1034:LYS:C	2.21	0.60
18:R1:631:ILE:HD12	18:R1:632:LYS:HE2	1.83	0.60
25:X1:790:ASN:CA	27:Z1:680:TRP:CZ2	2.82	0.60
25:X1:815:GLU:CB	26:Y1:1402:LEU:CD2	2.43	0.60
25:X2:818:ILE:HD13	26:Y2:1405:GLN:HB2	1.82	0.60
26:Y1:1407:SER:CA	26:Y1:1410:GLN:HG2	2.27	0.60
26:Y1:1450:GLY:HA2	27:Z1:330:ASP:OD2	1.92	0.60
27:Z2:207:ALA:HB2	27:Z2:285:PHE:HZ	1.65	0.60
1:A4:132:ASP:N	4:D3:1003:GLU:OE2	2.34	0.60
6:F1:1267:ARG:CG	15:O2:255:GLY:H	1.96	0.60
9:I1:921:GLU:N	15:O1:190:ARG:NH1	2.39	0.60
9:I2:963:LEU:CD1	16:P3:148:ALA:C	2.69	0.60
9:I2:1048:GLU:CD	14:N3:293:LYS:HD3	2.22	0.60
9:I2:1254:VAL:H	14:N3:409:ALA:C	2.04	0.60
17:Q1:422:ASN:O	17:Q1:449:LEU:HD13	2.02	0.60
17:Q1:557:LEU:HG	17:Q1:560:ARG:HH11	1.66	0.60
17:Q1:646:PHE:CZ	17:Q1:669:VAL:HG12	2.36	0.60
17:Q1:650:LEU:HD11	17:Q1:666:LYS:HG2	1.83	0.60
17:Q1:1028:LEU:HB2	17:Q1:1029:LEU:HD12	1.82	0.60
17:Q2:141:THR:HG22	17:Q2:163:GLY:C	2.22	0.60
17:Q2:455:ILE:HG23	17:Q2:467:VAL:HG22	1.83	0.60
17:Q2:1029:LEU:HD12	17:Q2:1029:LEU:N	2.16	0.60
17:Q2:1034:LYS:HD2	17:Q2:1034:LYS:O	2.01	0.60
18:R1:538:LEU:HD13	18:R1:546:LEU:CD1	2.31	0.60
18:R1:625:LYS:HA	18:R1:628:PHE:CE1	2.35	0.60
19:R2:538:LEU:HD13	19:R2:546:LEU:CD1	2.31	0.60
23:V1:240:PHE:O	23:V1:241:GLU:HG3	2.01	0.60
25:X1:753:GLU:HA	25:X1:756:ASN:ND2	2.16	0.60
25:X1:777:ASN:O	25:X1:778:LYS:C	2.40	0.60
25:X1:791:ILE:N	27:Z1:669:THR:C	2.53	0.60
25:X2:751:LEU:HD13	27:Z2:638:ILE:HD11	1.48	0.60
26:Y2:1431:MET:SD	26:Y2:1434:PHE:CE2	2.94	0.60
26:Y2:1453:PHE:HB2	27:Z2:349:VAL:HG11	1.83	0.60
27:Z2:207:ALA:HB2	27:Z2:285:PHE:CZ	2.36	0.60
27:Z2:304:THR:HG23	27:Z2:313:GLU:OE1	1.98	0.60
6:F2:139:GLN:CD	9:I2:1340:LEU:CD2	2.60	0.60
7:G1:251:TYR:HE2	15:O2:244:GLU:CB	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:421:SER:O	9:I1:425:HIS:ND1	2.33	0.60
9:I1:911:PRO:O	13:M1:545:GLU:HG3	2.00	0.60
9:I1:1311:LEU:HD22	15:O1:266:GLN:CG	2.30	0.60
9:I2:967:SER:HB2	16:P3:145:SER:CB	2.30	0.60
9:I2:1099:ARG:HA	15:O3:272:SER:HB3	1.74	0.60
17:Q1:134:VAL:HG12	17:Q1:135:ALA:N	2.16	0.60
17:Q1:449:LEU:HD23	17:Q1:453:ILE:HG21	1.82	0.60
17:Q1:555:GLN:HG2	17:Q1:556:HIS:HD2	1.67	0.60
17:Q1:647:LYS:HA	17:Q1:647:LYS:NZ	2.17	0.60
17:Q1:788:TRP:O	17:Q1:791:VAL:HG12	2.01	0.60
17:Q1:798:LYS:HZ1	17:Q1:822:ASP:HB3	1.64	0.60
17:Q2:305:THR:HG22	17:Q2:306:LYS:N	2.16	0.60
17:Q2:670:THR:HG21	17:Q2:744:LYS:HZ1	1.67	0.60
19:R2:534:SER:CA	19:R2:546:LEU:HD22	2.30	0.60
22:U1:206:ALA:HA	27:Z1:665:ILE:CG1	2.30	0.60
25:X2:823:LYS:NZ	27:Z1:214:SER:O	2.34	0.60
27:Z1:138:ARG:HH11	27:Z1:138:ARG:HG3	1.65	0.60
27:Z2:288:ASN:ND2	27:Z2:289:PRO:N	2.46	0.60
27:Z2:522:GLU:CA	27:Z2:523:ASN:HB3	2.32	0.60
27:Z2:580:LYS:O	27:Z2:584:GLN:HG3	2.02	0.60
9:I1:919:ALA:O	15:O1:191:ARG:CG	2.44	0.60
9:I1:925:LEU:CD2	15:O1:188:ALA:H	2.13	0.60
9:I1:1106:LYS:CB	13:M1:613:ASP:OD2	2.49	0.60
9:I2:981:VAL:CB	15:O3:171:ASP:O	2.49	0.60
9:I2:1034:ASP:OD2	13:M3:622:VAL:CB	2.50	0.60
17:Q1:350:SER:HA	17:Q1:363:LEU:CD2	2.30	0.60
17:Q1:494:VAL:O	17:Q1:498:VAL:HG12	2.01	0.60
17:Q1:584:LYS:NZ	17:Q1:590:LYS:HB2	2.15	0.60
17:Q1:584:LYS:HE2	17:Q1:708:TRP:CH2	2.36	0.60
17:Q1:870:VAL:O	17:Q1:873:GLN:HG2	2.01	0.60
17:Q2:288:ASN:ND2	17:Q2:332:LYS:HG2	2.16	0.60
17:Q2:455:ILE:HD12	17:Q2:467:VAL:HG22	1.84	0.60
18:R1:711:LEU:HA	18:R1:714:TYR:HD2	1.66	0.60
25:X1:818:ILE:HD13	26:Y1:1405:GLN:HB2	1.82	0.60
25:X2:743:GLN:N	25:X2:743:GLN:CA	2.65	0.60
26:Y1:1453:PHE:HD2	27:Z1:328:PHE:CE2	2.19	0.60
27:Z1:13:PHE:CE1	27:Z1:445:LEU:CB	2.84	0.60
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CG	2.35	0.60
27:Z1:233:MET:O	27:Z1:236:SER:OG	2.13	0.60
27:Z2:643:SER:N	27:Z2:643:SER:C	2.54	0.60
6:F1:158:PRO:C	9:I1:1339:LEU:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:137:ASN:HA	9:I2:1388:GLU:C	2.12	0.60
9:I2:894:VAL:HB	13:M3:587:GLU:HG3	1.80	0.60
9:I2:1099:ARG:HG2	15:O3:271:GLU:HB3	1.84	0.60
17:Q1:455:ILE:HG23	17:Q1:467:VAL:HG22	1.84	0.60
17:Q1:718:ILE:HG22	17:Q1:722:PHE:CE1	2.35	0.60
17:Q2:423:ALA:HB1	17:Q2:447:VAL:O	2.01	0.60
17:Q2:427:THR:HG22	17:Q2:428:GLN:N	2.17	0.60
17:Q2:538:ILE:HG21	17:Q2:567:PHE:CZ	2.36	0.60
17:Q2:647:LYS:HA	17:Q2:647:LYS:NZ	2.17	0.60
17:Q2:983:VAL:HG12	17:Q2:1104:ILE:HD12	1.84	0.60
18:R1:260:GLU:OE2	20:S1:318:HIS:NE2	2.29	0.60
19:R2:635:LEU:HD11	19:R2:655:ILE:HG21	1.84	0.60
23:V2:240:PHE:O	23:V2:241:GLU:HG3	2.01	0.60
24:W1:534:ASP:N	24:W1:746:CYS:O	2.34	0.60
25:X1:755:LEU:HD23	25:X1:758:LEU:HD12	1.83	0.60
25:X2:776:PHE:CE2	26:Y2:1369:PHE:CE1	2.89	0.60
26:Y1:1338:GLN:CB	27:Z1:630:TRP:CH2	2.84	0.60
26:Y1:1402:LEU:CA	26:Y1:1405:GLN:HG2	2.32	0.60
26:Y2:1338:GLN:CB	27:Z2:630:TRP:CH2	2.84	0.60
26:Y2:1402:LEU:CA	26:Y2:1405:GLN:HG2	2.31	0.60
27:Z1:27:PHE:HE2	27:Z1:36:VAL:HG21	1.26	0.60
27:Z2:34:ARG:HB3	27:Z2:45:TRP:CZ2	2.35	0.60
27:Z2:55:HIS:CE1	27:Z2:98:SER:HB2	2.35	0.60
27:Z2:184:ASP:CG	27:Z2:197:LEU:CB	2.57	0.60
27:Z2:187:PHE:CE1	27:Z2:194:LEU:HD13	2.36	0.60
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.60
1:A2:1200:ARG:C	1:A1:595:GLU:HB2	2.22	0.60
1:A2:1226:LEU:N	1:A1:643:ALA:C	2.52	0.60
1:A2:1274:ASP:N	1:A1:727:ASN:HD21	1.98	0.60
1:A3:1201:ARG:NH2	1:A4:646:ILE:CG2	2.52	0.60
1:A3:1222:ALA:HB1	1:A4:598:VAL:CB	2.31	0.60
1:A3:1332:ARG:CZ	4:D3:899:THR:HG23	2.32	0.60
6:F1:137:ASN:C	9:I1:1388:GLU:O	2.35	0.60
9:I1:1048:GLU:CD	15:O1:170:LEU:HB2	2.20	0.60
9:I2:806:VAL:CG1	15:O3:244:GLU:O	2.50	0.60
17:Q1:618:LEU:O	17:Q1:618:LEU:HD23	2.01	0.60
17:Q1:1029:LEU:HD12	17:Q1:1029:LEU:N	2.16	0.60
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CD2	2.85	0.60
25:X2:686:ALA:O	27:Z2:8:SER:OG	2.18	0.60
25:X2:755:LEU:HD23	25:X2:758:LEU:HD12	1.83	0.60
27:Z1:41:ASN:HD22	27:Z1:60:SER:H	1.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:439:LEU:HB3	27:Z1:446:THR:OG1	2.01	0.60
27:Z2:172:SER:OG	27:Z2:177:ALA:HB1	2.02	0.60
27:Z2:439:LEU:HB3	27:Z2:446:THR:OG1	2.01	0.60
1:A4:785:ILE:CD1	1:A4:825:ARG:HG2	2.31	0.60
9:I1:527:THR:O	9:I1:531:ASN:ND2	2.34	0.60
9:I1:1048:GLU:O	14:N1:293:LYS:HD2	2.00	0.60
9:I2:899:LEU:H	13:M3:584:GLN:HG3	1.53	0.60
9:I2:964:SER:CB	16:P3:149:ARG:CA	2.80	0.60
9:I2:988:GLU:N	9:I2:988:GLU:OE1	2.34	0.60
9:I2:1029:LEU:HD21	13:M3:613:ASP:OD2	2.02	0.60
17:Q1:242:LEU:O	17:Q1:243:LYS:HG3	2.02	0.60
17:Q1:929:LEU:CD2	18:R1:714:TYR:CE1	2.74	0.60
17:Q1:983:VAL:HG12	17:Q1:1104:ILE:HD12	1.84	0.60
17:Q2:291:ILE:HD11	17:Q2:311:ASN:HD22	1.66	0.60
17:Q2:615:GLU:CA	17:Q2:645:ILE:HG12	2.31	0.60
17:Q2:788:TRP:O	17:Q2:791:VAL:HG12	2.01	0.60
18:R1:207:SER:HA	18:R1:210:MET:HE3	1.84	0.60
20:S1:297:LEU:HD23	20:S1:300:LEU:HD12	1.84	0.60
22:U1:185:VAL:N	27:Z1:664:ARG:NH2	2.43	0.60
23:V2:534:ILE:O	23:V2:538:ILE:HG12	2.02	0.60
25:X1:648:LEU:HD13	27:Z2:547:VAL:CG1	2.32	0.60
25:X1:793:LEU:HD13	27:Z1:680:TRP:CD1	2.37	0.60
25:X2:800:HIS:HD2	27:Z2:694:ILE:CD1	2.12	0.60
26:Y1:1336:THR:HG22	26:Y1:1340:ARG:CD	2.27	0.60
27:Z1:351:ILE:HD12	27:Z1:389:TRP:CH2	2.37	0.60
27:Z2:359:GLU:OE1	27:Z2:361:LYS:HE2	2.01	0.60
1:A2:1328:ARG:HH22	4:D1:898:ASP:HB2	1.67	0.60
1:A3:1223:GLU:CG	1:A4:644:ALA:HA	2.27	0.60
1:A3:1223:GLU:CB	1:A4:648:TYR:CD1	2.72	0.60
7:G1:252:LEU:HD23	15:O2:244:GLU:CB	2.31	0.60
9:I2:914:ASN:HD21	15:O3:191:ARG:HE	1.49	0.60
9:I2:1048:GLU:HG2	14:N3:289:PHE:CD1	2.37	0.60
9:I2:1255:HIS:ND1	9:I2:1255:HIS:O	2.35	0.60
17:Q1:427:THR:HG22	17:Q1:428:GLN:N	2.17	0.60
17:Q1:467:VAL:HG12	17:Q1:475:LEU:HB2	1.84	0.60
17:Q1:642:PHE:O	17:Q1:645:ILE:HG23	2.02	0.60
17:Q2:625:GLN:HG2	17:Q2:626:ASN:N	2.17	0.60
17:Q2:1080:SER:O	17:Q2:1084:LEU:HD13	2.02	0.60
18:R1:635:LEU:HD11	18:R1:655:ILE:HG21	1.84	0.60
18:R1:678:LEU:HG	18:R1:679:LYS:N	2.17	0.60
18:R1:689:ALA:O	18:R1:693:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:800:HIS:CE1	27:Z1:691:SER:HG	2.13	0.60
25:X2:753:GLU:HA	25:X2:756:ASN:ND2	2.17	0.60
26:Y1:1345:LEU:HD21	26:Y1:1348:LYS:HZ3	1.62	0.60
27:Z1:187:PHE:CE1	27:Z1:194:LEU:HD13	2.37	0.60
27:Z1:359:GLU:OE1	27:Z1:361:LYS:HE2	2.01	0.60
27:Z2:30:GLN:O	27:Z2:31:ASN:HB2	2.01	0.60
27:Z2:294:LEU:HD21	27:Z2:353:ARG:CZ	2.26	0.60
1:A4:862:LEU:HD11	1:A4:904:GLN:HB3	1.83	0.60
6:F2:141:ALA:HB2	9:I2:1391:THR:OG1	2.02	0.60
9:I1:976:ARG:N	14:N1:301:LEU:CD1	2.65	0.60
9:I1:988:GLU:N	9:I1:988:GLU:OE1	2.34	0.60
9:I2:843:GLU:OE1	15:O3:191:ARG:CG	2.50	0.60
9:I2:1163:LEU:N	15:O3:266:GLN:NE2	2.49	0.60
9:I2:1487:ASP:OD1	9:I2:1488:THR:N	2.35	0.60
17:Q1:423:ALA:HB1	17:Q1:447:VAL:O	2.01	0.60
17:Q1:784:ASN:HA	17:Q1:787:ASP:OD2	2.02	0.60
17:Q1:816:GLN:OE1	17:Q1:849:GLU:HG3	2.02	0.60
17:Q2:509:ALA:HB1	17:Q2:573:LYS:HZ1	1.65	0.60
17:Q2:540:HIS:HD2	17:Q2:544:LYS:HD2	1.67	0.60
17:Q2:583:LEU:CD2	17:Q2:587:LEU:HD12	2.32	0.60
17:Q2:915:GLU:HG3	17:Q2:919:GLU:HB2	1.83	0.60
17:Q2:922:LEU:CD1	19:R2:688:LEU:HB3	2.32	0.60
19:R2:701:ILE:HG22	19:R2:705:PHE:CE1	2.35	0.60
20:S1:525:ASP:O	20:S1:528:LEU:HB2	2.02	0.60
25:X1:648:LEU:CD1	27:Z2:547:VAL:CG1	2.79	0.60
26:Y2:1317:TYR:CD2	27:Z1:48:VAL:O	2.55	0.60
26:Y2:1342:GLN:CG	27:Z2:630:TRP:CH2	2.85	0.60
27:Z1:129:LYS:HE3	27:Z1:185:LEU:HD12	0.60	0.60
27:Z1:241:THR:CG2	27:Z1:246:LYS:HE2	2.24	0.60
27:Z2:41:ASN:HD22	27:Z2:60:SER:H	1.45	0.60
27:Z2:314:ILE:CD1	27:Z2:386:PHE:CE2	2.69	0.60
7:G2:252:LEU:O	15:O4:248:SER:C	2.39	0.59
9:I2:902:GLN:O	13:M3:577:LEU:CA	2.43	0.59
9:I2:1031:ALA:CB	13:M3:621:ARG:HH12	1.95	0.59
9:I2:1106:LYS:HA	15:O3:277:GLU:HB2	1.84	0.59
17:Q1:467:VAL:HG13	17:Q1:475:LEU:HD13	1.82	0.59
17:Q1:671:ASN:O	17:Q1:675:LEU:HG	2.01	0.59
17:Q1:939:LEU:HD12	17:Q1:939:LEU:H	1.67	0.59
17:Q1:980:ILE:O	17:Q1:980:ILE:HD13	2.02	0.59
17:Q2:467:VAL:HG12	17:Q2:475:LEU:HB2	1.84	0.59
17:Q2:700:GLU:HB3	17:Q2:758:ILE:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:625:LYS:O	18:R1:629:GLU:HB2	2.02	0.59
19:R2:631:ILE:HD12	19:R2:632:LYS:HE2	1.83	0.59
20:S2:297:LEU:HD23	20:S2:300:LEU:HD12	1.84	0.59
22:U1:207:LYS:HD2	27:Z1:666:GLU:HB2	1.83	0.59
23:V1:534:ILE:O	23:V1:538:ILE:HG12	2.02	0.59
24:W1:596:PHE:CZ	24:W1:704:SER:HA	2.38	0.59
24:W2:609:GLY:O	24:W2:613:ILE:HG22	2.02	0.59
25:X1:778:LYS:CG	25:X1:778:LYS:C	2.65	0.59
25:X2:701:GLU:O	25:X2:704:GLN:HB2	2.01	0.59
26:Y2:1321:MET:HG2	27:Z1:47:ASN:O	1.92	0.59
26:Y2:1382:VAL:C	26:Y2:1383:ALA:CA	2.66	0.59
27:Z1:227:LEU:HD11	27:Z1:260:HIS:HB2	1.84	0.59
27:Z1:643:SER:N	27:Z1:643:SER:C	2.54	0.59
1:A2:1226:LEU:HA	1:A1:647:GLU:HG3	1.83	0.59
1:A3:862:LEU:HD11	1:A3:904:GLN:HB3	1.83	0.59
9:I1:916:ALA:CB	13:M1:534:GLN:NE2	2.61	0.59
9:I1:966:TRP:CB	15:O1:176:ARG:O	2.48	0.59
9:I2:892:HIS:NE2	13:M3:591:ASP:O	2.25	0.59
9:I2:960:SER:CB	16:P3:154:ALA:CB	2.80	0.59
9:I2:964:SER:N	16:P3:152:LYS:HE2	2.17	0.59
9:I2:1028:CYS:N	13:M3:612:PRO:C	2.55	0.59
9:I2:1168:ALA:HB1	15:O3:269:ILE:HG22	1.82	0.59
17:Q1:509:ALA:HB1	17:Q1:573:LYS:HZ1	1.67	0.59
17:Q1:585:LEU:O	17:Q1:585:LEU:HD23	2.02	0.59
17:Q1:916:SER:HB2	17:Q1:919:GLU:CG	2.31	0.59
17:Q1:1094:TYR:O	17:Q1:1097:GLU:HG2	2.02	0.59
17:Q2:599:LYS:CD	17:Q2:603:ILE:HD11	2.32	0.59
17:Q2:642:PHE:O	17:Q2:645:ILE:HG23	2.03	0.59
17:Q2:784:ASN:HA	17:Q2:787:ASP:OD2	2.02	0.59
20:S1:567:LEU:O	21:T1:85:GLU:C	2.41	0.59
20:S1:571:ALA:HB3	21:T1:86:ASN:CG	2.20	0.59
20:S2:152:ALA:HB1	20:S2:160:LEU:CD1	2.32	0.59
23:V2:258:LEU:HD22	23:V2:292:LEU:HD22	1.85	0.59
24:W1:406:ARG:CD	24:W1:720:PHE:HA	2.31	0.59
25:X2:691:ASN:HB3	27:Z2:431:TRP:NE1	1.97	0.59
25:X2:721:LEU:HD13	27:Z2:612:ILE:HD12	1.81	0.59
26:Y1:1342:GLN:HG3	27:Z1:630:TRP:CH2	2.37	0.59
27:Z1:165:VAL:HG12	27:Z1:168:LYS:CG	2.31	0.59
27:Z1:328:PHE:CE1	27:Z1:349:VAL:HB	2.35	0.59
27:Z2:342:TYR:CE2	27:Z2:344:TYR:CE2	2.75	0.59
27:Z2:359:GLU:HB3	27:Z2:361:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:230:GLU:N	6:F2:230:GLU:OE1	2.35	0.59
7:G1:249:ASP:N	15:O2:247:TRP:HZ2	1.67	0.59
9:I1:913:ALA:O	13:M1:541:LEU:HD22	2.01	0.59
9:I1:963:LEU:CG	15:O1:182:THR:HG21	2.30	0.59
9:I1:1051:LYS:H	14:N1:293:LYS:CD	1.96	0.59
9:I2:1029:LEU:HD23	13:M3:613:ASP:CG	2.23	0.59
10:J1:249:ASP:N	15:O1:272:SER:O	2.35	0.59
17:Q1:194:HIS:HB3	17:Q1:242:LEU:HD21	1.81	0.59
17:Q1:625:GLN:HG2	17:Q1:626:ASN:N	2.16	0.59
17:Q1:925:ASN:OD1	18:R1:692:SER:N	2.33	0.59
17:Q2:194:HIS:CB	17:Q2:242:LEU:HD22	2.33	0.59
17:Q2:284:TYR:CD1	17:Q2:347:PHE:HZ	2.21	0.59
17:Q2:404:MET:HG3	17:Q2:405:GLU:N	2.13	0.59
17:Q2:422:ASN:O	17:Q2:449:LEU:HD13	2.02	0.59
17:Q2:583:LEU:HD21	17:Q2:587:LEU:HD12	1.85	0.59
17:Q2:585:LEU:O	17:Q2:585:LEU:HD23	2.02	0.59
17:Q2:718:ILE:HD12	17:Q2:718:ILE:N	2.18	0.59
19:R2:13:THR:O	19:R2:17:ASP:N	2.24	0.59
20:S2:574:THR:CB	21:T2:86:ASN:CB	2.80	0.59
24:W1:245:ILE:HB	24:W1:255:GLN:HB2	1.84	0.59
25:X1:666:ASP:OD1	27:Z1:556:GLN:NE2	2.25	0.59
25:X2:680:TYR:CZ	27:Z2:439:LEU:CD1	2.84	0.59
25:X2:726:VAL:O	25:X2:727:SER:CA	2.51	0.59
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CG	2.37	0.59
26:Y2:1294:LYS:CD	27:Z2:588:TRP:CG	2.79	0.59
27:Z1:30:GLN:O	27:Z1:31:ASN:HB2	2.02	0.59
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:CB	1.98	0.59
27:Z1:541:LYS:HD2	27:Z2:550:HIS:C	2.22	0.59
27:Z1:642:ASN:ND2	27:Z1:646:HIS:HD1	2.01	0.59
27:Z2:305:ILE:CG2	27:Z2:386:PHE:HZ	2.14	0.59
1:A3:1091:VAL:HG12	4:D3:1100:PRO:CG	2.28	0.59
6:F2:139:GLN:CB	9:I2:1340:LEU:CD2	2.77	0.59
9:I1:896:PRO:HA	13:M1:580:LYS:HA	1.85	0.59
9:I1:912:VAL:CA	13:M1:541:LEU:HD23	2.32	0.59
9:I1:1048:GLU:CG	14:N1:293:LYS:NZ	2.61	0.59
9:I1:1357:LYS:NZ	15:O1:263:GLN:CA	2.54	0.59
9:I2:888:GLU:CA	13:M3:590:LYS:O	2.34	0.59
9:I2:899:LEU:HD12	13:M3:585:LEU:H	0.78	0.59
9:I2:911:PRO:HB2	15:O3:197:ARG:HD3	1.85	0.59
9:I2:1101:LEU:C	15:O3:272:SER:HB2	2.20	0.59
10:J2:248:VAL:HG13	14:N3:428:ASP:CG	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:527:ILE:HD13	17:Q1:527:ILE:N	2.17	0.59
17:Q1:718:ILE:HD12	17:Q1:718:ILE:N	2.17	0.59
17:Q1:923:HIS:HA	17:Q1:926:VAL:HG12	1.85	0.59
17:Q1:1024:VAL:HG23	17:Q1:1025:ASP:N	2.17	0.59
17:Q1:1065:VAL:CA	17:Q1:1070:LEU:HD23	2.32	0.59
17:Q2:60:VAL:HG23	17:Q2:68:ILE:CD1	2.18	0.59
17:Q2:104:LYS:HA	17:Q2:123:PRO:HD2	1.83	0.59
17:Q2:923:HIS:O	17:Q2:926:VAL:HG13	2.03	0.59
17:Q2:939:LEU:HD12	17:Q2:939:LEU:H	1.68	0.59
17:Q2:1065:VAL:CA	17:Q2:1070:LEU:HD23	2.32	0.59
17:Q2:1094:TYR:O	17:Q2:1097:GLU:HG2	2.02	0.59
18:R1:707:SER:CA	18:R1:711:LEU:HD13	2.19	0.59
19:R2:558:ILE:CG2	19:R2:581:LEU:HD13	2.31	0.59
19:R2:620:LEU:HD12	19:R2:670:LYS:HD3	1.85	0.59
20:S1:152:ALA:HB1	20:S1:160:LEU:CD1	2.33	0.59
22:U1:207:LYS:N	27:Z1:665:ILE:H	2.01	0.59
25:X1:700:ILE:CB	26:Y1:1298:TYR:CD1	2.65	0.59
27:Z1:172:SER:OG	27:Z1:177:ALA:HB1	2.02	0.59
27:Z1:233:MET:HE2	27:Z1:249:VAL:HG22	1.84	0.59
27:Z2:85:ASP:C	27:Z2:127:ILE:HG12	2.23	0.59
27:Z2:129:LYS:HE3	27:Z2:185:LEU:HD12	0.60	0.59
27:Z2:184:ASP:OD2	27:Z2:197:LEU:CB	2.50	0.59
27:Z2:328:PHE:CE1	27:Z2:349:VAL:HB	2.35	0.59
27:Z2:383:GLN:HG3	27:Z2:417:ILE:CG1	2.32	0.59
27:Z2:643:SER:N	27:Z2:644:PHE:N	2.51	0.59
4:D1:673:LEU:HG	1:A1:1094:ILE:HG21	1.83	0.59
9:I1:1357:LYS:CE	15:O1:263:GLN:CA	2.80	0.59
9:I2:1026:TYR:OH	13:M3:608:LYS:CB	2.51	0.59
9:I2:1105:TRP:HE3	15:O3:273:ASP:CA	2.12	0.59
10:J1:251:TYR:HB3	15:O1:273:ASP:CG	2.22	0.59
17:Q1:139:ILE:HB	17:Q1:211:MET:HE3	1.83	0.59
17:Q1:960:ILE:HD13	17:Q1:1005:LEU:HD12	1.84	0.59
17:Q2:816:GLN:OE1	17:Q2:849:GLU:HG3	2.02	0.59
17:Q2:836:PHE:HD2	17:Q2:842:GLU:HG3	1.67	0.59
17:Q2:980:ILE:O	17:Q2:980:ILE:HD13	2.02	0.59
17:Q2:1065:VAL:HA	17:Q2:1070:LEU:HD23	1.85	0.59
18:R1:211:ILE:HG23	20:S1:321:VAL:HG11	1.85	0.59
18:R1:624:SER:CB	18:R1:667:LEU:HD23	2.33	0.59
19:R2:678:LEU:HG	19:R2:679:LYS:N	2.17	0.59
20:S2:525:ASP:O	20:S2:528:LEU:HB2	2.02	0.59
23:V1:258:LEU:HD22	23:V1:292:LEU:HD22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:658:TYR:CE2	27:Z1:549:ILE:HD13	2.35	0.59
25:X1:707:LEU:CD1	26:Y1:1306:ILE:CG1	2.49	0.59
25:X2:637:LEU:N	27:Z2:528:PHE:HE1	2.00	0.59
25:X2:774:ASN:HD21	25:X2:798:ASN:CG	1.86	0.59
26:Y1:1409:LEU:HA	26:Y1:1412:GLU:CG	2.33	0.59
26:Y1:1431:MET:SD	26:Y1:1434:PHE:CE2	2.94	0.59
26:Y2:1370:THR:HG21	27:Z2:662:LEU:HD21	1.82	0.59
27:Z1:252:GLN:CA	27:Z1:335:MET:SD	2.91	0.59
27:Z1:325:ILE:CG2	27:Z1:327:LEU:HD21	2.32	0.59
27:Z1:359:GLU:HB3	27:Z1:361:LYS:HE3	1.84	0.59
27:Z2:158:ASN:CB	27:Z2:161:GLU:CG	2.78	0.59
1:A2:1221:ILE:HD13	1:A1:596:ARG:CD	2.32	0.59
1:A2:1236:GLN:OE1	1:A1:587:VAL:CG1	2.50	0.59
6:F1:581:PHE:O	6:F1:585:THR:OG1	2.21	0.59
9:I1:900:ARG:HB3	13:M1:580:LYS:HG2	1.85	0.59
9:I1:1048:GLU:C	14:N1:293:LYS:HD2	2.22	0.59
9:I1:1487:ASP:OD1	9:I1:1488:THR:N	2.35	0.59
9:I2:1106:LYS:HD3	15:O3:275:LEU:CD1	2.32	0.59
17:Q2:242:LEU:O	17:Q2:243:LYS:HG3	2.02	0.59
17:Q2:650:LEU:HD11	17:Q2:666:LYS:HG2	1.83	0.59
17:Q2:801:CYS:CB	17:Q2:818:LEU:HD12	2.33	0.59
17:Q2:923:HIS:HA	17:Q2:926:VAL:HG12	1.85	0.59
18:R1:533:LEU:HB3	18:R1:549:PHE:CE2	2.37	0.59
19:R2:533:LEU:HB3	19:R2:549:PHE:CE2	2.37	0.59
20:S1:426:TYR:O	20:S1:464:ARG:NH2	2.36	0.59
20:S1:567:LEU:CB	21:T1:84:GLU:O	2.49	0.59
25:X1:752:ASP:OD2	26:Y1:1345:LEU:HD11	2.02	0.59
26:Y1:1370:THR:HG21	27:Z1:662:LEU:HD21	1.82	0.59
26:Y1:1386:ALA:CA	26:Y2:1357:ASN:HA	2.30	0.59
27:Z1:211:PHE:CD1	27:Z1:211:PHE:C	2.76	0.59
27:Z2:211:PHE:CD1	27:Z2:211:PHE:C	2.76	0.59
27:Z2:314:ILE:HD13	27:Z2:326:LEU:HD21	1.85	0.59
1:A1:827:ILE:CB	1:A1:849:SER:HA	2.33	0.59
6:F1:230:GLU:N	6:F1:230:GLU:OE1	2.35	0.59
6:F2:136:ALA:HB1	9:I2:1392:VAL:HG21	1.85	0.59
9:I1:702:GLN:HG3	13:M1:553:ALA:CB	2.33	0.59
9:I1:1255:HIS:ND1	9:I1:1255:HIS:O	2.35	0.59
9:I2:891:LEU:HD23	13:M3:587:GLU:HA	1.85	0.59
17:Q1:288:ASN:HA	17:Q1:333:ILE:CG2	2.32	0.59
17:Q1:386:PHE:HE2	17:Q1:566:ASN:OD1	1.71	0.59
17:Q1:455:ILE:HD12	17:Q1:467:VAL:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:416:ILE:CG1	17:Q2:427:THR:HB	2.33	0.59
17:Q2:798:LYS:HZ3	17:Q2:822:ASP:HB3	1.67	0.59
22:U1:248:LYS:HE3	25:X1:809:ASP:HB2	1.84	0.59
23:V1:162:VAL:O	23:V1:166:ASP:HB3	2.03	0.59
23:V1:244:TYR:O	23:V1:248:LEU:HG	2.02	0.59
25:X2:774:ASN:HB2	25:X2:797:LEU:HD12	1.79	0.59
25:X2:820:SER:HA	27:Z1:273:GLN:N	2.18	0.59
27:Z1:218:LEU:HB2	27:Z1:263:TRP:HE1	1.68	0.59
27:Z2:93:VAL:O	27:Z2:93:VAL:HG13	1.99	0.59
27:Z2:123:PRO:N	27:Z2:124:LYS:N	2.50	0.59
27:Z2:145:LEU:HB2	27:Z2:185:LEU:HD11	1.85	0.59
27:Z2:164:ILE:CD1	27:Z2:277:ARG:HH12	2.09	0.59
1:A1:827:ILE:HG23	1:A1:849:SER:CA	2.17	0.59
1:A2:785:ILE:CD1	1:A2:825:ARG:HG2	2.31	0.59
1:A2:1274:ASP:N	1:A1:642:ARG:NH1	2.50	0.59
1:A4:1094:ILE:CG2	4:D3:675:LEU:CD2	2.63	0.59
6:F1:267:GLU:O	9:I1:1202:VAL:CB	2.42	0.59
9:I1:1036:PRO:O	15:O1:178:ASP:OD2	2.20	0.59
9:I2:891:LEU:N	13:M3:591:ASP:HB2	2.16	0.59
9:I2:1253:GLY:C	14:N3:410:MET:N	2.55	0.59
17:Q1:144:ALA:HA	17:Q1:234:ARG:HH22	1.68	0.59
17:Q1:456:ILE:CG1	17:Q1:468:LEU:HB2	2.33	0.59
17:Q1:583:LEU:CD2	17:Q1:587:LEU:HD12	2.32	0.59
17:Q1:651:ASN:O	17:Q1:654:VAL:HG22	2.03	0.59
17:Q1:749:LEU:HD11	17:Q1:807:PHE:CE1	2.38	0.59
17:Q2:610:LEU:HD21	17:Q2:613:ILE:HD12	1.85	0.59
17:Q2:1024:VAL:HG23	17:Q2:1025:ASP:N	2.17	0.59
18:R1:518:ILE:HG23	18:R1:518:ILE:O	2.03	0.59
19:R2:689:ALA:O	19:R2:693:LEU:HG	2.01	0.59
25:X2:770:ASN:OD1	25:X2:801:PHE:CD2	2.56	0.59
25:X2:800:HIS:CE1	27:Z2:691:SER:HG	2.12	0.59
26:Y1:1436:VAL:HG23	27:Z1:228:ASN:OD1	2.02	0.59
27:Z1:137:TYR:CB	27:Z1:215:VAL:HG12	2.32	0.59
27:Z1:143:VAL:CG2	27:Z1:211:PHE:HZ	2.06	0.59
27:Z1:158:ASN:CB	27:Z1:161:GLU:CG	2.78	0.59
27:Z1:282:GLN:HA	27:Z1:283:GLY:N	2.18	0.59
27:Z1:387:MET:HE1	27:Z1:391:SER:CA	2.32	0.59
1:A4:929:ASN:HD21	4:D3:468:LYS:CE	1.83	0.59
6:F1:171:PHE:O	6:F1:180:ARG:NH2	2.36	0.59
7:G1:251:TYR:HE2	15:O2:244:GLU:CA	2.13	0.59
9:I2:1160:ILE:HD13	15:O3:264:ILE:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M3:476:THR:CB	14:N4:323:ARG:HD3	2.32	0.59
17:Q1:382:ARG:NH2	17:Q1:516:LEU:HD11	2.17	0.59
17:Q1:416:ILE:CG1	17:Q1:427:THR:HB	2.33	0.59
17:Q1:583:LEU:HD21	17:Q1:587:LEU:HD12	1.84	0.59
17:Q1:671:ASN:HA	17:Q1:743:LEU:HD11	1.82	0.59
17:Q1:1062:VAL:HG12	17:Q1:1140:VAL:HG21	1.83	0.59
17:Q2:287:THR:O	17:Q2:333:ILE:HG21	2.03	0.59
17:Q2:871:LEU:O	17:Q2:871:LEU:HD23	2.02	0.59
17:Q2:1062:VAL:HG12	17:Q2:1140:VAL:HG21	1.83	0.59
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:HZ3	1.66	0.59
26:Y2:1362:LEU:HA	26:Y2:1387:LYS:HD2	1.82	0.59
27:Z1:152:THR:OG1	27:Z1:154:PHE:HE1	1.81	0.59
27:Z2:141:CYS:SG	27:Z2:213:PRO:HB3	2.42	0.59
27:Z2:252:GLN:CA	27:Z2:335:MET:SD	2.90	0.59
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CE1	2.38	0.59
27:Z2:351:ILE:HD12	27:Z2:389:TRP:CH2	2.37	0.59
27:Z2:434:GLN:CB	27:Z2:580:LYS:HZ1	2.14	0.59
1:A3:1327:VAL:HA	4:D3:876:SER:HB3	1.83	0.59
1:A4:1048:ARG:NH1	4:D4:1095:ARG:NH1	2.51	0.59
9:I1:978:LYS:CE	15:O1:180:ASP:OD1	2.51	0.59
9:I2:806:VAL:CG1	15:O3:247:TRP:C	2.54	0.59
9:I2:921:GLU:OE1	9:I2:921:GLU:N	2.35	0.59
9:I2:1255:HIS:HE1	14:N3:404:GLU:HA	1.66	0.59
9:I2:1308:THR:N	14:N3:413:VAL:O	2.36	0.59
17:Q1:361:TYR:O	17:Q1:511:PRO:CA	2.51	0.59
17:Q1:871:LEU:HD23	17:Q1:871:LEU:O	2.02	0.59
17:Q2:73:GLN:HG2	17:Q2:113:THR:HA	1.85	0.59
17:Q2:138:CYS:SG	17:Q2:166:ILE:HG12	2.43	0.59
17:Q2:173:ILE:HD13	17:Q2:175:TYR:OH	2.03	0.59
17:Q2:403:GLN:NE2	17:Q2:414:THR:HB	2.18	0.59
17:Q2:518:PRO:O	17:Q2:522:LEU:HG	2.03	0.59
17:Q2:527:ILE:HD13	17:Q2:527:ILE:N	2.17	0.59
17:Q2:557:LEU:HG	17:Q2:560:ARG:HH11	1.66	0.59
17:Q2:960:ILE:HD11	17:Q2:1005:LEU:CD1	2.32	0.59
19:R2:625:LYS:O	19:R2:629:GLU:HB2	2.02	0.59
21:T1:205:ASP:HB3	21:T1:227:GLN:HB3	1.85	0.59
21:T2:205:ASP:HB3	21:T2:227:GLN:HB3	1.85	0.59
22:U1:42:THR:O	22:U1:44:ASN:N	2.31	0.59
23:V1:344:ARG:NH2	25:X1:715:GLU:OE1	2.36	0.59
23:V1:536:LYS:O	23:V1:540:THR:OG1	2.20	0.59
25:X2:777:ASN:HA	25:X2:793:LEU:CB	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:820:SER:CA	27:Z1:273:GLN:N	2.64	0.59
26:Y1:1302:ASP:OD1	27:Z1:595:GLN:NE2	2.36	0.59
26:Y1:1367:LYS:O	26:Y1:1371:VAL:CG2	2.36	0.59
26:Y2:1332:LYS:HB2	27:Z1:97:TYR:CB	2.33	0.59
26:Y2:1342:GLN:HG3	27:Z2:630:TRP:CH2	2.37	0.59
26:Y2:1385:LEU:HD12	27:Z2:683:LEU:HD21	1.85	0.59
27:Z1:85:ASP:C	27:Z1:127:ILE:HG12	2.23	0.59
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CE1	2.38	0.59
27:Z1:314:ILE:HD13	27:Z1:326:LEU:HD21	1.85	0.59
27:Z1:387:MET:HE1	27:Z1:391:SER:HA	1.83	0.59
1:A2:1228:TYR:CE1	1:A1:643:ALA:HB2	2.38	0.58
1:A2:1229:VAL:HG21	1:A1:639:ASN:O	1.94	0.58
1:A2:1237:LEU:HG	1:A1:588:SER:OG	2.00	0.58
1:A2:1328:ARG:CD	4:D1:976:ARG:CZ	2.67	0.58
1:A3:1401:VAL:O	4:D3:873:GLN:NE2	2.34	0.58
6:F1:990:GLN:NE2	9:I1:1394:ASN:CG	2.50	0.58
9:I1:978:LYS:CB	15:O1:180:ASP:HB3	2.11	0.58
9:I1:1050:SER:O	16:P1:141:ALA:CB	2.50	0.58
9:I1:1433:THR:HG21	10:J1:270:ARG:CD	2.33	0.58
9:I2:1028:CYS:HB3	13:M3:613:ASP:OD1	2.03	0.58
9:I2:1253:GLY:HA2	14:N3:410:MET:HB3	1.85	0.58
14:N3:264:ARG:HA	14:N4:334:LEU:HB3	1.85	0.58
17:Q1:194:HIS:CB	17:Q1:242:LEU:HD22	2.33	0.58
17:Q1:419:MET:CE	17:Q1:465:LEU:HD11	2.33	0.58
17:Q1:423:ALA:HB2	17:Q1:448:SER:HA	1.85	0.58
17:Q1:604:ILE:HG23	17:Q1:604:ILE:O	2.03	0.58
17:Q1:836:PHE:HD2	17:Q1:842:GLU:CG	2.16	0.58
17:Q1:836:PHE:HD2	17:Q1:842:GLU:HG3	1.67	0.58
17:Q1:958:LYS:O	17:Q1:958:LYS:HD2	2.02	0.58
17:Q2:509:ALA:CB	17:Q2:516:LEU:HD11	2.33	0.58
17:Q2:555:GLN:HG2	17:Q2:556:HIS:HD2	1.67	0.58
17:Q2:696:LEU:CD1	17:Q2:700:GLU:HG3	2.33	0.58
18:R1:435:PHE:O	18:R1:448:ILE:HG12	2.03	0.58
18:R1:711:LEU:CG	18:R1:714:TYR:HE2	2.16	0.58
19:R2:590:LEU:HD13	19:R2:590:LEU:O	2.04	0.58
23:V2:244:TYR:O	23:V2:248:LEU:HG	2.02	0.58
25:X1:655:PHE:CE1	27:Z1:545:LEU:HD13	2.37	0.58
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CD2	2.85	0.58
25:X1:821:ILE:CG2	26:Y1:1409:LEU:CD1	2.74	0.58
25:X2:683:ALA:HB2	26:Y2:1281:MET:HE3	1.85	0.58
26:Y1:1429:LYS:NZ	26:Y1:1434:PHE:H	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1302:ASP:OD1	27:Z2:595:GLN:NE2	2.36	0.58
26:Y2:1409:LEU:C	27:Z2:711:LYS:CE	2.68	0.58
26:Y2:1431:MET:CA	26:Y2:1434:PHE:CE2	2.74	0.58
27:Z1:12:ILE:HG21	27:Z1:46:TYR:HD2	1.64	0.58
27:Z2:218:LEU:HB2	27:Z2:263:TRP:HE1	1.67	0.58
27:Z2:263:TRP:HD1	27:Z2:270:VAL:CG2	2.16	0.58
27:Z2:381:ILE:HD11	27:Z2:420:ILE:HD13	1.85	0.58
1:A1:785:ILE:CD1	1:A1:825:ARG:HG2	2.31	0.58
1:A2:1277:TRP:CD1	1:A1:642:ARG:CZ	2.86	0.58
6:F1:1797:ARG:HD2	14:N2:429:GLU:CD	2.24	0.58
9:I1:896:PRO:HB3	13:M1:584:GLN:N	2.18	0.58
9:I1:965:ALA:HB3	15:O1:185:ALA:H	1.61	0.58
9:I2:1103:LEU:HB2	13:M3:611:LYS:HZ2	1.57	0.58
17:Q1:284:TYR:CD1	17:Q1:347:PHE:HZ	2.21	0.58
17:Q1:700:GLU:HB3	17:Q1:758:ILE:HG23	1.83	0.58
17:Q2:341:ASP:OD2	17:Q2:407:ALA:HA	2.03	0.58
17:Q2:351:ILE:HB	17:Q2:362:ILE:CD1	2.33	0.58
17:Q2:651:ASN:O	17:Q2:654:VAL:HG22	2.03	0.58
17:Q2:890:GLN:HA	17:Q2:893:ASP:OD1	2.03	0.58
19:R2:711:LEU:CG	19:R2:714:TYR:HE2	2.16	0.58
20:S1:180:LEU:HD21	20:S1:185:LEU:HD13	1.85	0.58
20:S2:180:LEU:HD21	20:S2:185:LEU:HD13	1.85	0.58
20:S2:426:TYR:O	20:S2:464:ARG:NH2	2.36	0.58
24:W1:125:ASP:OD1	24:W1:127:SER:OG	2.17	0.58
24:W1:609:GLY:O	24:W1:613:ILE:HG22	2.02	0.58
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:CE	2.32	0.58
27:Z2:197:LEU:HB2	27:Z2:302:ILE:HG21	1.85	0.58
27:Z2:207:ALA:HB3	27:Z2:285:PHE:HZ	1.68	0.58
4:D1:1030:ALA:HB3	1:A1:633:MET:HE2	1.84	0.58
6:F2:190:ARG:NH1	6:F2:281:THR:OG1	2.36	0.58
6:F2:856:GLU:N	6:F2:856:GLU:OE1	2.37	0.58
6:F2:1832:ASN:OD1	6:F2:1833:ARG:N	2.36	0.58
9:I1:908:ARG:CD	13:M1:548:LEU:O	2.50	0.58
9:I1:912:VAL:HG12	13:M1:542:ASP:HA	1.85	0.58
9:I1:966:TRP:HA	15:O1:181:HIS:CG	2.38	0.58
9:I1:1048:GLU:C	15:O1:171:ASP:HA	2.17	0.58
9:I2:421:SER:O	9:I2:425:HIS:ND1	2.33	0.58
9:I2:925:LEU:HD12	15:O3:183:VAL:HA	1.85	0.58
9:I2:1035:GLN:OE1	16:P3:143:PHE:N	2.32	0.58
9:I2:1433:THR:HG21	10:J2:270:ARG:CD	2.33	0.58
10:J1:249:ASP:CA	15:O1:272:SER:O	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:138:CYS:SG	17:Q1:166:ILE:HG12	2.43	0.58
17:Q2:288:ASN:HA	17:Q2:333:ILE:CG2	2.32	0.58
17:Q2:958:LYS:O	17:Q2:958:LYS:HD2	2.02	0.58
19:R2:211:ILE:HG23	20:S2:321:VAL:HG11	1.85	0.58
19:R2:677:LEU:CD1	19:R2:684:ILE:HG22	2.34	0.58
22:U1:207:LYS:N	27:Z1:661:GLU:O	2.30	0.58
24:W2:596:PHE:CZ	24:W2:704:SER:HA	2.37	0.58
25:X1:655:PHE:HZ	27:Z1:545:LEU:CB	1.90	0.58
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CE2	2.35	0.58
27:Z1:213:PRO:O	27:Z1:216:LEU:HD23	2.03	0.58
27:Z1:252:GLN:NE2	27:Z1:335:MET:CG	2.56	0.58
27:Z1:305:ILE:CG2	27:Z1:386:PHE:HZ	2.15	0.58
27:Z1:381:ILE:HD11	27:Z1:420:ILE:HD13	1.85	0.58
27:Z1:559:GLU:O	27:Z1:563:GLN:HG3	2.03	0.58
27:Z1:627:GLU:HB3	27:Z1:631:PHE:CE2	2.34	0.58
27:Z2:213:PRO:O	27:Z2:216:LEU:HD23	2.03	0.58
27:Z2:530:ASP:O	27:Z2:534:GLU:HG3	2.03	0.58
1:A3:1091:VAL:CA	4:D3:1100:PRO:HG2	2.34	0.58
1:A4:827:ILE:CB	1:A4:849:SER:HA	2.33	0.58
6:F1:1264:ARG:C	15:O2:251:ILE:HG22	2.24	0.58
6:F2:138:ILE:O	9:I2:1391:THR:CG2	2.51	0.58
6:F2:581:PHE:O	6:F2:585:THR:OG1	2.21	0.58
9:I1:976:ARG:NE	15:O1:173:ILE:H	1.99	0.58
17:Q1:403:GLN:NE2	17:Q1:414:THR:HB	2.18	0.58
17:Q1:549:MET:O	17:Q1:553:LEU:HG	2.03	0.58
17:Q2:215:GLU:HB3	17:Q2:216:PRO:CD	2.33	0.58
17:Q2:316:ILE:HD12	17:Q2:331:LEU:HD21	1.83	0.58
17:Q2:419:MET:CE	17:Q2:465:LEU:HD11	2.33	0.58
17:Q2:684:GLU:CA	17:Q2:688:THR:HB	2.34	0.58
17:Q2:1016:PHE:CE2	17:Q2:1068:GLU:HG3	2.38	0.58
19:R2:519:GLU:HB3	19:R2:522:LEU:HD12	1.85	0.58
23:V2:163:LYS:HD2	23:V2:172:PHE:CZ	2.38	0.58
24:W2:329:TRP:HB3	24:W2:355:TRP:HB3	1.85	0.58
25:X1:726:VAL:C	25:X1:726:VAL:CA	2.72	0.58
25:X1:793:LEU:CD1	27:Z1:680:TRP:CD1	2.86	0.58
25:X2:752:ASP:OD2	26:Y2:1345:LEU:HD11	2.02	0.58
26:Y2:1298:TYR:HB3	27:Z2:588:TRP:CZ3	2.39	0.58
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CE2	2.38	0.58
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:HG	1.66	0.58
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:HD13	2.39	0.58
26:Y2:1436:VAL:HG23	27:Z2:228:ASN:OD1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:55:HIS:CE1	27:Z1:98:SER:HB2	2.36	0.58
27:Z1:301:ASN:N	27:Z1:318:SER:OG	2.36	0.58
27:Z2:92:GLU:OE2	27:Z2:111:ILE:HD13	2.03	0.58
27:Z2:522:GLU:HG3	27:Z2:524:GLN:N	2.08	0.58
1:A4:581:LYS:NZ	4:D3:1031:ARG:HH21	2.01	0.58
4:D1:1030:ALA:CB	1:A1:633:MET:HE1	2.33	0.58
6:F1:267:GLU:CG	11:K1:638:PRO:CD	2.73	0.58
7:G1:253:SER:CB	13:M2:595:MET:HE3	2.33	0.58
9:I1:919:ALA:HB1	15:O1:190:ARG:CZ	1.73	0.58
9:I2:1030:ARG:CZ	13:M3:608:LYS:N	2.67	0.58
9:I2:1048:GLU:HG2	14:N3:289:PHE:CD2	2.34	0.58
17:Q1:287:THR:O	17:Q1:333:ILE:HG21	2.03	0.58
17:Q1:696:LEU:CD1	17:Q1:700:GLU:HG3	2.33	0.58
18:R1:677:LEU:CD1	18:R1:684:ILE:HG22	2.34	0.58
22:U1:225:GLY:O	23:V1:453:ASP:HB3	2.03	0.58
25:X1:800:HIS:HD2	27:Z1:694:ILE:CD1	2.12	0.58
25:X2:681:SER:O	27:Z2:445:LEU:O	2.20	0.58
27:Z1:92:GLU:OE2	27:Z1:111:ILE:HD13	2.03	0.58
27:Z1:145:LEU:HB2	27:Z1:185:LEU:HD11	1.85	0.58
27:Z1:184:ASP:OD2	27:Z1:197:LEU:CB	2.50	0.58
27:Z1:282:GLN:C	27:Z1:282:GLN:N	2.53	0.58
27:Z2:369:GLN:OE1	27:Z2:372:LYS:NZ	2.36	0.58
27:Z2:627:GLU:HB3	27:Z2:631:PHE:CE2	2.34	0.58
1:A3:785:ILE:CD1	1:A3:825:ARG:HG2	2.31	0.58
1:A3:1224:PRO:HD2	1:A4:648:TYR:CE1	2.37	0.58
6:F1:1265:GLN:HG3	15:O2:252:VAL:HG23	1.82	0.58
7:G2:252:LEU:HB3	15:O4:248:SER:CB	2.33	0.58
9:I1:921:GLU:N	9:I1:921:GLU:OE1	2.36	0.58
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD11	2.19	0.58
9:I1:1051:LYS:NZ	14:N1:289:PHE:C	2.56	0.58
9:I1:1363:GLU:OE1	9:I1:1366:ARG:NH2	2.36	0.58
9:I2:1305:LEU:CG	15:O3:264:ILE:CG1	2.81	0.58
9:I2:1363:GLU:OE1	9:I2:1366:ARG:NH2	2.36	0.58
17:Q1:646:PHE:HE2	17:Q1:669:VAL:HB	1.68	0.58
17:Q1:1080:SER:O	17:Q1:1084:LEU:HD13	2.02	0.58
17:Q2:288:ASN:HD21	17:Q2:332:LYS:CG	2.17	0.58
17:Q2:288:ASN:OD1	17:Q2:332:LYS:HG2	2.04	0.58
17:Q2:623:LEU:H	17:Q2:623:LEU:HD12	1.68	0.58
17:Q2:667:LEU:HD11	17:Q2:671:ASN:HD21	1.68	0.58
17:Q2:749:LEU:HD11	17:Q2:807:PHE:CE1	2.38	0.58
18:R1:620:LEU:HD12	18:R1:670:LYS:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:574:THR:CB	21:T1:88:ARG:CZ	2.81	0.58
25:X1:742:GLN:HB2	25:X1:746:LYS:HG3	1.83	0.58
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ1	1.88	0.58
27:Z2:133:HIS:HE1	27:Z2:211:PHE:CD1	2.13	0.58
27:Z2:218:LEU:CD1	27:Z2:223:LEU:HD23	2.18	0.58
27:Z2:326:LEU:HD23	27:Z2:389:TRP:CZ2	2.35	0.58
1:A2:1204:TRP:HE1	1:A1:599:ARG:HA	0.54	0.58
1:A2:1237:LEU:CG	1:A1:588:SER:CB	2.79	0.58
9:I1:844:LYS:HZ3	13:M1:539:ALA:CB	2.10	0.58
9:I1:977:ASN:HD22	15:O1:178:ASP:N	1.81	0.58
17:Q1:173:ILE:HD13	17:Q1:175:TYR:OH	2.03	0.58
17:Q1:518:PRO:O	17:Q1:522:LEU:HG	2.03	0.58
17:Q1:1043:ARG:NH1	17:Q1:1113:ILE:HG23	2.19	0.58
17:Q1:1081:VAL:HG11	17:Q1:1124:ASN:ND2	2.18	0.58
17:Q2:646:PHE:HE2	17:Q2:669:VAL:HB	1.68	0.58
25:X1:802:ASP:HB3	26:Y1:1371:VAL:HG13	1.86	0.58
25:X2:685:MET:CG	27:Z2:445:LEU:O	2.44	0.58
26:Y1:1298:TYR:HB3	27:Z1:588:TRP:CZ3	2.38	0.58
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:CB	2.21	0.58
27:Z1:207:ALA:HB3	27:Z1:285:PHE:HZ	1.68	0.58
27:Z1:364:ILE:O	27:Z1:373:LEU:CD1	2.45	0.58
27:Z1:538:ARG:HG2	27:Z2:550:HIS:N	2.18	0.58
27:Z2:152:THR:OG1	27:Z2:154:PHE:HE1	1.81	0.58
27:Z2:165:VAL:HG12	27:Z2:168:LYS:CG	2.31	0.58
27:Z2:227:LEU:HD11	27:Z2:260:HIS:HB2	1.84	0.58
27:Z2:325:ILE:CG2	27:Z2:327:LEU:HD21	2.33	0.58
27:Z2:358:ARG:CZ	27:Z2:382:GLN:OE1	2.49	0.58
6:F2:158:PRO:CG	9:I2:1341:GLN:HG3	2.34	0.58
9:I2:925:LEU:HD11	15:O3:186:PHE:HB3	1.17	0.58
9:I2:959:SER:C	16:P3:151:LYS:HE2	2.24	0.58
17:Q1:288:ASN:HD21	17:Q1:332:LYS:CG	2.17	0.58
17:Q1:568:LEU:O	17:Q1:571:VAL:HG22	2.04	0.58
17:Q1:816:GLN:HA	17:Q1:819:GLN:NE2	2.18	0.58
17:Q1:887:TRP:HB3	17:Q1:902:THR:HG23	1.85	0.58
17:Q1:890:GLN:HA	17:Q1:893:ASP:OD1	2.03	0.58
17:Q1:923:HIS:O	17:Q1:926:VAL:HG13	2.03	0.58
17:Q2:279:GLY:CA	17:Q2:299:ALA:HA	2.34	0.58
17:Q2:549:MET:O	17:Q2:553:LEU:HG	2.02	0.58
24:W1:185:GLY:O	24:W1:196:PRO:HA	2.04	0.58
25:X1:700:ILE:CA	26:Y1:1298:TYR:CE1	2.84	0.58
25:X2:655:PHE:CE1	27:Z2:545:LEU:HD13	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:821:ILE:HG22	25:X2:821:ILE:O	2.03	0.58
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CG	2.37	0.58
27:Z2:120:GLU:C	27:Z2:124:LYS:CE	2.72	0.58
27:Z2:640:GLN:C	27:Z2:640:GLN:HA	2.17	0.58
7:G1:252:LEU:C	15:O2:243:LEU:HD23	2.15	0.58
7:G1:253:SER:O	14:N2:393:ILE:HG23	2.04	0.58
9:I1:838:GLU:O	15:O1:198:ARG:CZ	2.51	0.58
9:I2:1032:THR:HG22	13:M3:618:GLN:HG2	1.85	0.58
17:Q1:73:GLN:HG2	17:Q1:113:THR:HA	1.85	0.58
17:Q1:615:GLU:HB2	17:Q1:645:ILE:CG2	2.31	0.58
17:Q1:623:LEU:H	17:Q1:623:LEU:HD12	1.68	0.58
17:Q1:648:GLN:OE1	17:Q1:648:GLN:HA	2.04	0.58
17:Q1:667:LEU:HD11	17:Q1:671:ASN:HD21	1.68	0.58
17:Q1:700:GLU:HG2	17:Q1:758:ILE:HG12	1.84	0.58
17:Q1:801:CYS:CB	17:Q1:818:LEU:HD12	2.33	0.58
17:Q1:1016:PHE:CE2	17:Q1:1068:GLU:HG3	2.38	0.58
17:Q1:1099:TYR:CZ	17:Q1:1109:ILE:HG21	2.39	0.58
17:Q2:456:ILE:CG1	17:Q2:468:LEU:HB2	2.33	0.58
17:Q2:816:GLN:HA	17:Q2:819:GLN:NE2	2.18	0.58
17:Q2:824:ASN:ND2	17:Q2:833:GLU:HB2	2.15	0.58
18:R1:454:ASP:HB2	18:R1:455:PRO:HD2	1.85	0.58
18:R1:621:GLN:HB3	18:R1:670:LYS:HE2	1.86	0.58
24:W2:245:ILE:HB	24:W2:255:GLN:HB2	1.84	0.58
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:CA	2.34	0.58
26:Y2:1403:ARG:HG3	27:Z2:704:VAL:HG22	1.86	0.58
27:Z1:326:LEU:O	27:Z1:327:LEU:HD23	2.04	0.58
27:Z1:383:GLN:NE2	27:Z1:417:ILE:CG2	2.67	0.58
27:Z1:395:LYS:HG3	27:Z2:266:ARG:CG	2.33	0.58
27:Z1:530:ASP:O	27:Z1:534:GLU:HG3	2.04	0.58
27:Z1:640:GLN:C	27:Z1:640:GLN:HA	2.18	0.58
27:Z2:116:ILE:CD1	27:Z2:125:SER:C	2.69	0.58
27:Z2:116:ILE:HD11	27:Z2:125:SER:O	1.92	0.58
27:Z2:366:LEU:HD23	27:Z2:374:TYR:HE2	1.63	0.58
27:Z2:380:ILE:CG2	27:Z2:382:GLN:HG3	2.34	0.58
27:Z2:437:LEU:CG	27:Z2:450:ILE:CD1	2.40	0.58
6:F1:1832:ASN:OD1	6:F1:1833:ARG:N	2.36	0.58
6:F2:139:GLN:CB	9:I2:1395:LEU:HD12	2.27	0.58
6:F2:140:GLU:HG3	9:I2:1392:VAL:CG2	1.89	0.58
6:F2:143:GLY:HA2	9:I2:1394:ASN:CB	2.33	0.58
7:G2:253:SER:HA	15:O4:249:ARG:CA	2.34	0.58
9:I2:799:THR:O	9:I2:831:HIS:NE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:914:ASN:CB	15:O3:194:GLU:CB	2.75	0.58
9:I2:1034:ASP:CG	13:M3:622:VAL:HG21	2.24	0.58
9:I2:1100:ILE:O	13:M3:611:LYS:NZ	2.28	0.58
17:Q1:599:LYS:CD	17:Q1:603:ILE:HD11	2.32	0.58
17:Q1:674:ASN:CG	17:Q1:746:VAL:HG13	2.24	0.58
17:Q1:824:ASN:ND2	17:Q1:833:GLU:HB2	2.15	0.58
17:Q1:1065:VAL:HA	17:Q1:1070:LEU:HD23	1.85	0.58
17:Q2:689:ILE:HG23	17:Q2:690:ARG:N	2.19	0.58
17:Q2:986:ILE:HG21	17:Q2:1102:PHE:CE1	2.39	0.58
17:Q2:987:LEU:CB	17:Q2:1005:LEU:HD23	2.34	0.58
17:Q2:1099:TYR:CZ	17:Q2:1109:ILE:HG21	2.39	0.58
24:W1:401:THR:O	24:W1:724:PHE:CB	2.40	0.58
25:X1:652:ALA:O	25:X1:656:GLU:HG3	2.04	0.58
25:X1:700:ILE:C	26:Y1:1298:TYR:OH	2.42	0.58
25:X1:721:LEU:HD22	26:Y1:1319:PHE:CE2	2.39	0.58
26:Y1:1434:PHE:CE1	26:Y2:1429:LYS:CD	2.65	0.58
27:Z1:124:LYS:N	27:Z1:124:LYS:CA	2.67	0.58
27:Z1:358:ARG:CZ	27:Z1:382:GLN:OE1	2.49	0.58
27:Z1:537:GLN:O	27:Z2:551:ASN:HB2	2.04	0.58
27:Z2:559:GLU:O	27:Z2:563:GLN:HG3	2.03	0.58
7:G2:254:ASN:ND2	15:O4:256:TYR:H	2.01	0.57
9:I1:912:VAL:CA	13:M1:545:GLU:OE2	2.33	0.57
9:I2:1103:LEU:H	15:O3:272:SER:HA	1.68	0.57
9:I2:1107:SER:CA	15:O3:280:GLU:CG	2.81	0.57
9:I2:1305:LEU:CG	15:O3:264:ILE:CD1	2.79	0.57
17:Q1:341:ASP:OD2	17:Q1:407:ALA:HA	2.04	0.57
17:Q1:684:GLU:CA	17:Q1:688:THR:HB	2.34	0.57
17:Q2:648:GLN:HA	17:Q2:648:GLN:OE1	2.04	0.57
17:Q2:731:GLU:O	17:Q2:731:GLU:HG3	2.03	0.57
17:Q2:836:PHE:HD2	17:Q2:842:GLU:CG	2.16	0.57
19:R2:518:ILE:O	19:R2:518:ILE:HG23	2.03	0.57
21:T1:217:LEU:HD22	21:T1:218:LEU:H	1.69	0.57
22:U1:123:LEU:HB2	22:U1:139:ALA:HB3	1.86	0.57
24:W1:400:LYS:HG2	24:W1:720:PHE:CB	2.32	0.57
24:W1:534:ASP:OD2	24:W1:746:CYS:C	2.42	0.57
25:X1:790:ASN:ND2	27:Z1:680:TRP:CH2	2.72	0.57
25:X2:658:TYR:CD1	26:Y2:1239:PHE:CE1	2.92	0.57
25:X2:701:GLU:OE2	27:Z2:587:LYS:HD3	2.04	0.57
25:X2:789:GLU:N	25:X2:789:GLU:C	2.56	0.57
26:Y1:1403:ARG:HG3	27:Z1:704:VAL:HG22	1.86	0.57
26:Y1:1435:LYS:HZ3	27:Z1:225:LEU:CD2	1.98	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CD2	2.34	0.57
27:Z1:328:PHE:HZ	27:Z1:349:VAL:HG11	1.65	0.57
27:Z1:399:GLU:HG2	27:Z2:263:TRP:HE3	1.69	0.57
27:Z2:301:ASN:N	27:Z2:318:SER:OG	2.36	0.57
1:A3:1329:GLU:O	4:D3:879:ASP:CB	2.37	0.57
4:D1:1030:ALA:O	1:A1:633:MET:HB2	2.04	0.57
6:F1:856:GLU:N	6:F1:856:GLU:OE1	2.36	0.57
9:I1:966:TRP:HB3	15:O1:179:LEU:N	2.19	0.57
9:I2:1025:LEU:O	13:M3:613:ASP:CA	2.51	0.57
9:I2:1305:LEU:HB2	15:O3:263:GLN:HG2	1.86	0.57
9:I2:1305:LEU:HD23	15:O3:264:ILE:HG13	1.84	0.57
10:J1:248:VAL:CG1	15:O1:273:ASP:HA	2.18	0.57
17:Q1:215:GLU:HB3	17:Q1:216:PRO:CD	2.34	0.57
17:Q2:564:PHE:CZ	17:Q2:588:ILE:HD13	2.37	0.57
17:Q2:593:ILE:HG12	17:Q2:683:GLU:OE1	2.05	0.57
19:R2:581:LEU:HA	19:R2:584:ILE:HD11	1.86	0.57
19:R2:613:ILE:CG2	19:R2:614:PRO:HD3	2.34	0.57
19:R2:621:GLN:HB3	19:R2:670:LYS:HE2	1.86	0.57
20:S1:571:ALA:HB2	21:T1:86:ASN:HB2	0.72	0.57
20:S2:359:TYR:HA	20:S2:362:LEU:HD12	1.86	0.57
25:X1:821:ILE:HG22	25:X1:821:ILE:O	2.03	0.57
25:X2:688:HIS:NE2	27:Z2:445:LEU:HD11	2.19	0.57
26:Y2:1235:MET:SD	27:Z2:546:GLY:HA2	2.44	0.57
27:Z1:216:LEU:O	27:Z1:269:LYS:HA	2.04	0.57
27:Z1:587:LYS:O	27:Z1:591:GLN:CG	2.46	0.57
27:Z1:643:SER:N	27:Z1:644:PHE:N	2.51	0.57
27:Z1:678:ASN:O	27:Z1:678:ASN:CB	2.52	0.57
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CD2	2.33	0.57
27:Z2:359:GLU:HG2	27:Z2:361:LYS:CE	2.29	0.57
1:A4:127:HIS:NE2	4:D3:1009:ARG:HB2	2.18	0.57
6:F1:190:ARG:NH1	6:F1:281:THR:OG1	2.37	0.57
6:F2:171:PHE:O	6:F2:180:ARG:NH2	2.36	0.57
6:F2:197:ASP:OD1	6:F2:295:GLN:NE2	2.36	0.57
9:I1:903:GLY:O	13:M1:574:THR:N	2.30	0.57
9:I2:923:GLY:HA3	15:O3:190:ARG:CZ	2.31	0.57
9:I2:1034:ASP:OD2	13:M3:622:VAL:HB	2.04	0.57
9:I2:1104:LEU:H	13:M3:611:LYS:CE	2.16	0.57
14:N3:264:ARG:HG3	14:N4:334:LEU:HD13	1.86	0.57
17:Q1:509:ALA:CB	17:Q1:516:LEU:HD11	2.33	0.57
17:Q1:610:LEU:HD21	17:Q1:613:ILE:HD12	1.85	0.57
17:Q1:922:LEU:CD2	18:R1:688:LEU:HD23	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1128:SER:O	17:Q1:1131:ILE:HG22	2.04	0.57
17:Q2:887:TRP:HB3	17:Q2:902:THR:HG23	1.85	0.57
18:R1:543:VAL:HG23	18:R1:544:LYS:N	2.19	0.57
18:R1:590:LEU:HD13	18:R1:590:LEU:O	2.04	0.57
19:R2:546:LEU:HB3	19:R2:587:TYR:CE1	2.39	0.57
19:R2:624:SER:CB	19:R2:667:LEU:HD23	2.33	0.57
19:R2:704:LEU:N	19:R2:704:LEU:HD22	2.19	0.57
22:U1:205:ALA:CA	27:Z1:668:GLU:OE2	2.51	0.57
23:V1:163:LYS:HD2	23:V1:172:PHE:CZ	2.39	0.57
23:V1:271:LEU:O	23:V1:275:SER:HB3	2.04	0.57
23:V2:145:ASN:OD1	23:V2:190:PHE:HA	2.04	0.57
24:W2:185:GLY:O	24:W2:196:PRO:HA	2.04	0.57
25:X1:776:PHE:CE2	26:Y1:1369:PHE:CD1	2.90	0.57
25:X2:725:VAL:CG2	27:Z2:612:ILE:CG2	2.83	0.57
25:X2:725:VAL:CG2	27:Z2:612:ILE:HG23	2.26	0.57
26:Y2:1345:LEU:HB3	26:Y2:1348:LYS:HE2	1.86	0.57
27:Z1:66:ASP:OD1	27:Z1:68:THR:OG1	2.14	0.57
27:Z1:356:LEU:HD13	27:Z1:358:ARG:HH22	1.66	0.57
27:Z2:282:GLN:HA	27:Z2:283:GLY:N	2.18	0.57
1:A3:1274:ASP:H	1:A4:642:ARG:HH12	1.50	0.57
4:D1:1003:GLU:CA	1:A1:172:PRO:HB2	2.32	0.57
7:G2:253:SER:CA	15:O4:249:ARG:O	2.53	0.57
9:I1:917:TYR:HD1	13:M1:534:GLN:NE2	2.01	0.57
9:I1:979:ALA:CB	15:O1:179:LEU:HB2	2.34	0.57
9:I1:1112:SER:HB3	10:J1:241:THR:HB	1.87	0.57
9:I2:904:GLU:O	13:M3:577:LEU:CD1	2.52	0.57
9:I2:1254:VAL:HG23	14:N3:409:ALA:C	2.25	0.57
17:Q1:316:ILE:HD12	17:Q1:331:LEU:HD21	1.83	0.57
17:Q1:491:VAL:HG12	17:Q1:495:LYS:HE2	1.86	0.57
17:Q1:506:LYS:HD3	17:Q1:567:PHE:HD1	1.69	0.57
17:Q2:423:ALA:HB2	17:Q2:448:SER:HA	1.85	0.57
17:Q2:604:ILE:O	17:Q2:604:ILE:HG23	2.03	0.57
17:Q2:714:TYR:HD2	17:Q2:717:CYS:SG	2.24	0.57
18:R1:581:LEU:HA	18:R1:584:ILE:HD11	1.86	0.57
21:T2:217:LEU:HD22	21:T2:218:LEU:H	1.69	0.57
23:V1:145:ASN:OD1	23:V1:190:PHE:HA	2.04	0.57
23:V1:159:ILE:HG22	23:V1:172:PHE:CE1	2.39	0.57
25:X2:695:GLN:N	27:Z2:431:TRP:CA	2.67	0.57
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CE2	2.38	0.57
26:Y2:1317:TYR:HB2	27:Z1:49:LEU:CD1	2.33	0.57
27:Z1:305:ILE:HD11	27:Z1:373:LEU:HD13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:522:GLU:OE2	27:Z1:526:GLU:HB2	2.04	0.57
1:A2:1233:GLN:CG	1:A1:587:VAL:CG1	2.74	0.57
1:A2:1275:PRO:HD3	1:A1:727:ASN:ND2	2.20	0.57
1:A3:1200:ARG:CG	1:A4:592:ASP:OD2	2.50	0.57
6:F1:1052:CYS:HB3	9:I1:1388:GLU:HG3	1.64	0.57
9:I1:799:THR:O	9:I1:831:HIS:NE2	2.37	0.57
9:I1:965:ALA:HB2	15:O1:185:ALA:HB3	1.83	0.57
9:I2:961:ARG:NH2	16:P3:164:PRO:HD3	2.19	0.57
10:J2:247:ASP:CB	15:O3:279:ILE:HD11	2.34	0.57
17:Q1:351:ILE:HB	17:Q1:362:ILE:CD1	2.33	0.57
17:Q1:447:VAL:O	17:Q1:447:VAL:HG23	2.04	0.57
17:Q1:543:GLY:C	17:Q1:637:ASN:HD21	2.08	0.57
17:Q1:673:ILE:HG12	17:Q1:677:PHE:HE2	1.69	0.57
17:Q1:986:ILE:HG21	17:Q1:1102:PHE:CE1	2.38	0.57
17:Q2:589:GLU:HA	17:Q2:589:GLU:OE1	2.05	0.57
17:Q2:633:THR:HG23	17:Q2:634:VAL:N	2.20	0.57
18:R1:530:ILE:HD13	18:R1:553:ASN:HB2	1.86	0.57
25:X1:655:PHE:CE1	27:Z1:545:LEU:CB	2.72	0.57
25:X1:795:LYS:CB	27:Z1:665:ILE:HG22	2.29	0.57
25:X2:697:LEU:H	27:Z2:432:ASN:HD21	0.70	0.57
25:X2:755:LEU:HD11	26:Y2:1349:LEU:CD1	2.13	0.57
25:X2:777:ASN:OD1	26:Y2:1369:PHE:HZ	1.83	0.57
26:Y1:1345:LEU:HB3	26:Y1:1348:LYS:HE2	1.86	0.57
26:Y2:1337:HIS:CB	27:Z1:108:ALA:O	2.51	0.57
27:Z1:153:MET:CE	27:Z1:211:PHE:CE1	2.88	0.57
27:Z1:217:LEU:HA	27:Z1:269:LYS:CG	2.34	0.57
27:Z1:380:ILE:CG2	27:Z1:382:GLN:HG3	2.34	0.57
27:Z2:143:VAL:CG2	27:Z2:211:PHE:HZ	2.07	0.57
27:Z2:156:ILE:HG22	27:Z2:156:ILE:O	2.03	0.57
27:Z2:362:SER:HG	27:Z2:376:ILE:HB	1.67	0.57
27:Z2:364:ILE:O	27:Z2:373:LEU:CD1	2.45	0.57
27:Z2:381:ILE:CD1	27:Z2:420:ILE:HG21	2.35	0.57
1:A4:1048:ARG:CZ	4:D4:1095:ARG:HH11	2.15	0.57
6:F1:1528:ALA:O	1:A1:1099:GLN:HG2	2.04	0.57
6:F2:158:PRO:HG2	9:I2:1341:GLN:HG3	1.86	0.57
9:I1:1606:GLU:CD	9:I2:1669:ARG:NH1	2.50	0.57
9:I2:1099:ARG:NH1	13:M3:610:SER:N	2.35	0.57
10:J1:249:ASP:CB	15:O1:272:SER:C	2.61	0.57
17:Q2:491:VAL:CG1	17:Q2:495:LYS:HE2	2.35	0.57
17:Q2:506:LYS:HD3	17:Q2:567:PHE:HD1	1.69	0.57
17:Q2:568:LEU:O	17:Q2:571:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:674:ASN:CG	17:Q2:746:VAL:HG13	2.25	0.57
17:Q2:805:ALA:HB2	17:Q2:815:VAL:HG12	1.86	0.57
17:Q2:1128:SER:O	17:Q2:1131:ILE:HG22	2.04	0.57
18:R1:479:THR:O	18:R1:483:VAL:HB	2.04	0.57
19:R2:280:SER:HB2	19:R2:284:SER:HB3	1.86	0.57
20:S1:359:TYR:HA	20:S1:362:LEU:HD12	1.86	0.57
22:U2:225:GLY:O	23:V2:453:ASP:HB3	2.04	0.57
24:W1:739:PHE:O	24:W1:743:ASN:N	2.36	0.57
25:X1:680:TYR:O	25:X1:684:VAL:HG23	2.03	0.57
26:Y1:1117:TYR:N	26:Y1:1117:TYR:C	2.58	0.57
26:Y1:1211:LEU:HD13	26:Y1:1214:ILE:HG21	1.86	0.57
26:Y1:1235:MET:SD	27:Z1:546:GLY:HA2	2.44	0.57
27:Z1:233:MET:HE1	27:Z1:334:SER:CB	2.35	0.57
27:Z1:263:TRP:HD1	27:Z1:270:VAL:CG2	2.16	0.57
27:Z2:129:LYS:HE2	27:Z2:185:LEU:CB	2.24	0.57
27:Z2:182:ILE:HD12	27:Z2:198:ASN:OD1	2.05	0.57
27:Z2:326:LEU:O	27:Z2:327:LEU:HD23	2.04	0.57
27:Z2:428:TYR:CZ	27:Z2:435:SER:CB	2.71	0.57
6:F2:159:ALA:O	9:I2:1197:ASN:CA	2.51	0.57
9:I1:918:SER:CB	15:O1:193:ALA:CA	2.83	0.57
9:I2:1048:GLU:CD	14:N3:293:LYS:CB	2.44	0.57
10:J1:249:ASP:OD1	10:J1:250:THR:N	2.37	0.57
17:Q1:177:ASP:OD1	17:Q1:180:SER:HB2	2.05	0.57
17:Q1:288:ASN:OD1	17:Q1:332:LYS:HG2	2.04	0.57
17:Q1:960:ILE:HD11	17:Q1:1005:LEU:CD1	2.32	0.57
17:Q2:144:ALA:HA	17:Q2:234:ARG:HH22	1.68	0.57
17:Q2:177:ASP:OD1	17:Q2:180:SER:HB2	2.04	0.57
17:Q2:722:PHE:O	17:Q2:725:PHE:HB3	2.05	0.57
18:R1:442:LEU:HD11	18:R1:470:LEU:CD2	2.35	0.57
18:R1:546:LEU:HB3	18:R1:587:TYR:CE1	2.39	0.57
19:R2:237:ILE:HD11	19:R2:240:HIS:HA	1.87	0.57
19:R2:343:ILE:HD13	19:R2:344:ARG:N	2.19	0.57
22:U2:42:THR:O	22:U2:44:ASN:N	2.31	0.57
23:V2:162:VAL:O	23:V2:166:ASP:HB3	2.03	0.57
24:W1:329:TRP:HB3	24:W1:355:TRP:HB3	1.85	0.57
25:X1:764:SER:O	25:X1:768:GLU:HG3	2.03	0.57
27:Z1:156:ILE:HG22	27:Z1:156:ILE:O	2.03	0.57
27:Z1:263:TRP:HD1	27:Z1:270:VAL:HG21	1.70	0.57
27:Z1:274:LYS:HG2	27:Z1:274:LYS:O	2.03	0.57
27:Z1:325:ILE:HG21	27:Z1:327:LEU:HD21	1.87	0.57
27:Z1:426:LEU:CD2	27:Z1:439:LEU:CD2	2.83	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:27:PHE:CE1	27:Z2:36:VAL:HB	2.33	0.57
27:Z2:66:ASP:OD1	27:Z2:68:THR:OG1	2.14	0.57
27:Z2:153:MET:CE	27:Z2:211:PHE:CE1	2.88	0.57
1:A2:1331:GLU:C	4:D1:903:ILE:HG13	2.25	0.57
4:D1:969:HIS:ND1	1:A1:711:VAL:HG22	2.19	0.57
9:I1:747:GLU:N	9:I1:747:GLU:OE1	2.38	0.57
9:I2:747:GLU:N	9:I2:747:GLU:OE1	2.38	0.57
9:I2:892:HIS:CA	13:M3:588:MET:O	2.52	0.57
9:I2:899:LEU:O	13:M3:581:LEU:HA	2.05	0.57
9:I2:925:LEU:HB2	15:O3:182:THR:HG22	1.85	0.57
9:I2:968:PRO:HD3	15:O3:177:HIS:NE2	2.20	0.57
9:I2:1026:TYR:CE1	13:M3:609:GLY:N	2.71	0.57
9:I2:1034:ASP:CB	15:O3:284:LYS:HG2	2.34	0.57
17:Q1:491:VAL:CG1	17:Q1:495:LYS:HE2	2.35	0.57
17:Q1:689:ILE:HG23	17:Q1:690:ARG:N	2.19	0.57
17:Q2:447:VAL:O	17:Q2:447:VAL:HG23	2.04	0.57
17:Q2:627:GLU:O	17:Q2:627:GLU:HG3	2.04	0.57
17:Q2:916:SER:HB2	17:Q2:919:GLU:CG	2.31	0.57
17:Q2:1071:PRO:HB2	17:Q2:1146:TYR:CE2	2.39	0.57
17:Q2:1081:VAL:HG11	17:Q2:1124:ASN:ND2	2.18	0.57
18:R1:448:ILE:HG23	18:R1:449:LEU:N	2.19	0.57
18:R1:519:GLU:HB3	18:R1:522:LEU:HD12	1.86	0.57
24:W1:526:ARG:O	24:W1:744:VAL:CA	2.53	0.57
25:X1:777:ASN:OD1	26:Y1:1369:PHE:HZ	1.82	0.57
25:X2:680:TYR:HH	27:Z2:420:ILE:HG22	1.69	0.57
25:X2:687:GLU:HA	27:Z2:577:LEU:HD21	1.87	0.57
25:X2:721:LEU:HD22	26:Y2:1319:PHE:CE2	2.39	0.57
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:CB	2.24	0.57
27:Z2:274:LYS:HG2	27:Z2:274:LYS:O	2.03	0.57
27:Z2:300:THR:O	27:Z2:301:ASN:CG	2.43	0.57
1:A3:873:PRO:HB2	4:D1:532:LEU:CD2	2.35	0.57
1:A3:1223:GLU:HB2	1:A4:648:TYR:HD2	0.93	0.57
1:A3:1272:GLY:CA	1:A4:727:ASN:CB	2.83	0.57
9:I1:408:PRO:O	9:I1:409:SER:OG	2.16	0.57
9:I1:918:SER:HA	15:O1:193:ALA:HB3	1.81	0.57
9:I1:1048:GLU:OE1	15:O1:171:ASP:CB	2.53	0.57
9:I1:1051:LYS:HZ3	14:N1:290:VAL:HG23	1.66	0.57
9:I1:1051:LYS:C	14:N1:293:LYS:HZ3	2.07	0.57
9:I2:94:GLU:N	9:I2:94:GLU:OE1	2.38	0.57
9:I2:964:SER:CA	16:P3:149:ARG:C	2.63	0.57
9:I2:1107:SER:OG	13:M3:615:PRO:HG3	1.96	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:589:GLU:HA	17:Q1:589:GLU:OE1	2.04	0.57
17:Q1:599:LYS:HD2	17:Q1:599:LYS:C	2.26	0.57
17:Q1:627:GLU:O	17:Q1:627:GLU:HG3	2.04	0.57
17:Q2:651:ASN:HA	17:Q2:654:VAL:CG2	2.35	0.57
18:R1:442:LEU:HD21	18:R1:470:LEU:CD2	2.34	0.57
18:R1:704:LEU:N	18:R1:704:LEU:HD22	2.20	0.57
19:R2:557:GLU:OE2	19:R2:558:ILE:HA	2.05	0.57
19:R2:691:THR:HG21	19:R2:718:VAL:HG21	1.87	0.57
22:U1:209:PRO:HD3	27:Z1:663:THR:N	2.20	0.57
25:X1:687:GLU:HA	27:Z1:577:LEU:HD21	1.87	0.57
25:X2:676:ILE:HD11	26:Y2:1274:ASN:OD1	2.03	0.57
25:X2:764:SER:O	25:X2:768:GLU:HG3	2.04	0.57
26:Y2:1332:LYS:HG2	27:Z1:97:TYR:H	1.67	0.57
27:Z1:207:ALA:HB3	27:Z1:285:PHE:CZ	2.40	0.57
27:Z1:282:GLN:CG	27:Z1:342:TYR:O	2.43	0.57
27:Z1:531:ILE:CD1	27:Z2:541:LYS:CG	2.83	0.57
27:Z2:305:ILE:HD11	27:Z2:373:LEU:HD13	1.85	0.57
6:F1:138:ILE:HA	9:I1:1391:THR:HB	1.87	0.57
9:I2:892:HIS:CB	13:M3:591:ASP:CG	2.37	0.57
9:I2:896:PRO:HD3	13:M3:588:MET:H	1.67	0.57
9:I2:1168:ALA:HB3	15:O3:269:ILE:HB	1.86	0.57
17:Q1:506:LYS:NZ	17:Q1:538:ILE:HD11	2.20	0.57
17:Q1:543:GLY:HA3	17:Q1:591:PHE:CZ	2.37	0.57
17:Q1:731:GLU:O	17:Q1:731:GLU:HG3	2.03	0.57
17:Q1:1071:PRO:HB2	17:Q1:1146:TYR:CE2	2.39	0.57
17:Q2:590:LYS:HA	17:Q2:593:ILE:HD12	1.87	0.57
17:Q2:857:LEU:HD11	17:Q2:915:GLU:C	2.22	0.57
19:R2:71:GLU:OE1	19:R2:75:TRP:NE1	2.36	0.57
19:R2:609:SER:O	19:R2:613:ILE:HG22	2.05	0.57
19:R2:627:THR:HG23	19:R2:628:PHE:N	2.20	0.57
20:S2:550:GLY:HA2	20:S2:567:LEU:CB	2.34	0.57
23:V2:271:LEU:O	23:V2:275:SER:HB3	2.04	0.57
24:W1:101:SER:HA	24:W1:123:LEU:HA	1.87	0.57
24:W1:526:ARG:CG	24:W1:740:PHE:CB	2.83	0.57
24:W2:342:LEU:HD13	24:W2:379:ILE:HD12	1.86	0.57
25:X2:652:ALA:O	25:X2:656:GLU:HG3	2.04	0.57
25:X2:773:SER:C	25:X2:797:LEU:HD11	2.25	0.57
26:Y1:1342:GLN:CG	27:Z1:630:TRP:CH2	2.85	0.57
27:Z1:41:ASN:HD22	27:Z1:60:SER:HB3	1.70	0.57
27:Z1:41:ASN:HA	27:Z1:59:PHE:CZ	2.40	0.57
27:Z1:204:ASP:OD2	27:Z1:284:PRO:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:692:LYS:O	27:Z1:696:GLU:HG3	2.04	0.57
27:Z2:213:PRO:O	27:Z2:272:ILE:HD12	2.05	0.57
27:Z2:325:ILE:HG21	27:Z2:327:LEU:HD21	1.87	0.57
27:Z2:339:VAL:HB	27:Z2:342:TYR:HD1	1.70	0.57
27:Z2:397:ILE:O	27:Z2:397:ILE:CG2	2.53	0.57
27:Z2:692:LYS:O	27:Z2:696:GLU:HG3	2.04	0.57
1:A2:1221:ILE:CG1	1:A1:600:LYS:CE	2.72	0.56
9:I1:966:TRP:HB3	15:O1:179:LEU:H	1.70	0.56
9:I1:1606:GLU:OE2	9:I2:1669:ARG:HD2	1.95	0.56
9:I2:1030:ARG:HG2	13:M3:617:THR:CB	2.27	0.56
10:J2:249:ASP:OD1	10:J2:250:THR:N	2.37	0.56
17:Q1:316:ILE:HG13	17:Q1:317:LEU:N	2.20	0.56
17:Q1:351:ILE:HG22	17:Q1:352:TYR:N	2.20	0.56
17:Q1:673:ILE:HG23	17:Q1:674:ASN:N	2.20	0.56
17:Q1:722:PHE:O	17:Q1:725:PHE:HB3	2.05	0.56
17:Q2:346:LEU:HD13	17:Q2:367:ILE:HG23	1.87	0.56
17:Q2:506:LYS:NZ	17:Q2:538:ILE:HD11	2.20	0.56
18:R1:280:SER:HB2	18:R1:284:SER:HB3	1.86	0.56
18:R1:343:ILE:HD13	18:R1:344:ARG:N	2.19	0.56
21:T2:117:LEU:HB2	21:T2:153:TRP:NE1	2.20	0.56
22:U2:238:GLY:HA2	22:U2:305:GLY:O	2.05	0.56
23:V2:159:ILE:HG21	23:V2:176:GLU:HG2	1.87	0.56
27:Z2:35:ILE:CG1	27:Z2:46:TYR:CE2	2.79	0.56
27:Z2:41:ASN:HD22	27:Z2:60:SER:HB3	1.70	0.56
27:Z2:137:TYR:CB	27:Z2:215:VAL:HG12	2.33	0.56
27:Z2:216:LEU:O	27:Z2:269:LYS:HA	2.04	0.56
27:Z2:591:GLN:O	27:Z2:595:GLN:HG2	2.05	0.56
1:A2:1201:ARG:NE	1:A1:648:TYR:CD1	2.64	0.56
1:A3:1272:GLY:HA3	1:A4:727:ASN:HB3	1.87	0.56
1:A3:1332:ARG:HH12	4:D3:899:THR:HA	1.68	0.56
6:F1:142:ALA:O	9:I1:1394:ASN:O	2.15	0.56
6:F2:540:GLU:N	6:F2:540:GLU:OE1	2.37	0.56
7:G1:251:TYR:CE2	15:O2:244:GLU:CB	2.88	0.56
9:I1:354:ASP:OD1	9:I1:355:GLU:N	2.38	0.56
9:I2:914:ASN:HB3	15:O3:194:GLU:H	1.69	0.56
9:I2:968:PRO:CB	14:N3:303:SER:OG	2.53	0.56
9:I2:1254:VAL:N	14:N3:409:ALA:C	2.59	0.56
17:Q1:279:GLY:CA	17:Q1:299:ALA:HA	2.34	0.56
17:Q1:590:LYS:HA	17:Q1:593:ILE:HD12	1.87	0.56
17:Q1:656:VAL:O	17:Q1:656:VAL:HG13	2.05	0.56
17:Q2:599:LYS:HD3	17:Q2:603:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1131:ILE:HG23	17:Q2:1132:LYS:N	2.21	0.56
19:R2:678:LEU:HG	19:R2:679:LYS:H	1.70	0.56
20:S1:199:THR:HB	20:S1:213:GLU:HB2	1.87	0.56
22:U2:123:LEU:HB2	22:U2:139:ALA:HB3	1.86	0.56
25:X2:708:GLU:CG	27:Z2:598:LEU:HD21	2.30	0.56
25:X2:711:LEU:CG	26:Y2:1309:ASP:OD2	2.53	0.56
26:Y1:1305:GLN:NE2	27:Z1:595:GLN:HB2	2.17	0.56
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CD2	2.93	0.56
26:Y2:1392:ARG:NH1	27:Z2:693:ILE:HB	2.20	0.56
27:Z1:541:LYS:CB	27:Z2:550:HIS:C	2.39	0.56
27:Z1:544:THR:CB	27:Z2:555:GLU:CA	2.82	0.56
27:Z2:449:ASN:OD1	27:Z2:576:ASP:OD2	2.22	0.56
1:A3:1332:ARG:HE	4:D3:903:ILE:HG13	0.49	0.56
7:G1:249:ASP:CA	15:O2:247:TRP:HE1	2.18	0.56
9:I1:895:ARG:NH1	15:O1:197:ARG:HB2	2.20	0.56
9:I1:909:ARG:O	15:O1:205:ARG:HD2	2.05	0.56
9:I2:354:ASP:OD1	9:I2:355:GLU:N	2.38	0.56
9:I2:842:ASN:C	15:O3:191:ARG:HH22	2.08	0.56
9:I2:902:GLN:O	13:M3:577:LEU:CG	2.47	0.56
9:I2:963:LEU:C	16:P3:152:LYS:CG	2.57	0.56
9:I2:977:ASN:C	15:O3:174:LEU:O	2.43	0.56
9:I2:982:GLN:NE2	15:O3:179:LEU:CD1	2.67	0.56
13:M3:473:ARG:HH22	13:M4:536:GLU:HB3	1.70	0.56
17:Q1:170:SER:HB2	17:Q1:200:ILE:CD1	2.35	0.56
17:Q1:564:PHE:O	17:Q1:568:LEU:HG	2.05	0.56
17:Q1:588:ILE:HD13	17:Q1:588:ILE:O	2.05	0.56
17:Q1:651:ASN:HA	17:Q1:654:VAL:CG2	2.35	0.56
17:Q1:795:VAL:HG13	17:Q1:796:ASN:N	2.21	0.56
17:Q2:351:ILE:HG22	17:Q2:352:TYR:N	2.21	0.56
17:Q2:426:ILE:HD13	17:Q2:477:PHE:HZ	1.70	0.56
17:Q2:543:GLY:HA3	17:Q2:591:PHE:CZ	2.37	0.56
17:Q2:588:ILE:HD13	17:Q2:588:ILE:O	2.05	0.56
17:Q2:673:ILE:HG23	17:Q2:674:ASN:N	2.20	0.56
17:Q2:673:ILE:HG12	17:Q2:677:PHE:HE2	1.69	0.56
17:Q2:760:ILE:HG23	17:Q2:761:ASN:N	2.20	0.56
17:Q2:820:THR:CG2	17:Q2:821:LEU:HD12	2.35	0.56
18:R1:71:GLU:OE1	18:R1:75:TRP:NE1	2.36	0.56
18:R1:557:GLU:OE2	18:R1:558:ILE:HA	2.05	0.56
18:R1:624:SER:O	18:R1:627:THR:HG22	2.05	0.56
18:R1:627:THR:HG23	18:R1:628:PHE:N	2.20	0.56
19:R2:690:PHE:CZ	19:R2:694:VAL:HG21	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:296:LEU:HG	27:Z1:653:GLN:O	1.89	0.56
23:V2:159:ILE:HG22	23:V2:172:PHE:CE1	2.39	0.56
23:V2:536:LYS:O	23:V2:540:THR:OG1	2.20	0.56
25:X1:701:GLU:OE2	27:Z1:587:LYS:HD3	2.04	0.56
25:X1:707:LEU:O	25:X1:711:LEU:HG	2.06	0.56
25:X1:807:LEU:HD13	27:Z1:697:CYS:HB2	1.87	0.56
25:X2:685:MET:HE3	27:Z2:13:PHE:CZ	2.41	0.56
25:X2:721:LEU:CG	27:Z2:612:ILE:HD11	2.34	0.56
26:Y1:1277:LYS:HE2	27:Z1:570:ILE:CB	2.17	0.56
26:Y1:1371:VAL:HB	26:Y1:1372:LYS:CD	2.22	0.56
27:Z1:182:ILE:HD12	27:Z1:198:ASN:OD1	2.05	0.56
27:Z1:213:PRO:O	27:Z1:272:ILE:HD12	2.05	0.56
27:Z1:248:ASN:HD22	27:Z1:342:TYR:HE1	1.52	0.56
27:Z1:290:PHE:CZ	27:Z1:294:LEU:HB2	2.40	0.56
27:Z1:342:TYR:CE2	27:Z1:344:TYR:CE2	2.74	0.56
27:Z1:397:ILE:O	27:Z1:397:ILE:CG2	2.53	0.56
27:Z1:592:LEU:CD2	27:Z1:595:GLN:OE1	2.53	0.56
27:Z1:682:GLU:OE1	27:Z2:650:SER:CB	2.52	0.56
27:Z2:57:LEU:O	27:Z2:57:LEU:CG	2.39	0.56
27:Z2:290:PHE:CZ	27:Z2:294:LEU:HB2	2.40	0.56
27:Z2:389:TRP:NE1	27:Z2:410:PHE:CE1	2.74	0.56
27:Z2:426:LEU:CD2	27:Z2:439:LEU:CD2	2.83	0.56
27:Z2:434:GLN:HB2	27:Z2:580:LYS:HZ1	1.70	0.56
1:A3:1223:GLU:O	1:A4:594:LEU:HG	2.04	0.56
1:A4:581:LYS:HZ1	4:D3:1031:ARG:HH21	1.54	0.56
4:D1:973:GLN:HE21	1:A1:843:ARG:HH22	1.51	0.56
6:F1:69:LYS:N	6:F1:106:ASN:OD1	2.39	0.56
6:F2:1659:MET:O	6:F2:1712:ASN:ND2	2.36	0.56
10:J1:249:ASP:CA	15:O1:272:SER:C	2.72	0.56
13:M3:469:GLU:CD	13:M4:536:GLU:CD	2.61	0.56
17:Q1:540:HIS:HD2	17:Q1:544:LYS:HD2	1.67	0.56
17:Q1:887:TRP:CB	17:Q1:902:THR:HG21	2.36	0.56
17:Q1:925:ASN:OD1	18:R1:691:THR:O	2.22	0.56
18:R1:34:ASP:HB3	18:R1:35:PRO:HD3	1.87	0.56
19:R2:624:SER:O	19:R2:627:THR:HG22	2.05	0.56
25:X1:704:GLN:CD	27:Z1:598:LEU:CD1	2.73	0.56
25:X1:721:LEU:HB3	27:Z1:612:ILE:HD13	1.88	0.56
25:X2:700:ILE:C	26:Y2:1298:TYR:OH	2.42	0.56
26:Y2:1305:GLN:NE2	27:Z2:595:GLN:HB2	2.17	0.56
26:Y2:1333:ASP:N	27:Z1:94:PRO:CA	2.52	0.56
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CD2	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:273:GLN:NE2	27:Z2:708:PHE:HZ	2.04	0.56
27:Z1:280:LYS:HE2	27:Z1:338:ASP:O	2.06	0.56
27:Z1:339:VAL:HB	27:Z1:342:TYR:HD1	1.70	0.56
27:Z1:389:TRP:NE1	27:Z1:410:PHE:CE1	2.73	0.56
27:Z2:207:ALA:HB3	27:Z2:285:PHE:CZ	2.40	0.56
27:Z2:437:LEU:CD1	27:Z2:448:GLN:HE22	1.99	0.56
1:A2:1229:VAL:HG23	1:A1:639:ASN:O	1.93	0.56
6:F1:1659:MET:O	6:F1:1712:ASN:ND2	2.36	0.56
9:I2:889:THR:HA	15:O3:247:TRP:CZ2	2.41	0.56
9:I2:1035:GLN:CD	16:P3:142:LEU:O	2.44	0.56
9:I2:1050:SER:OG	14:N3:292:ARG:HG2	1.92	0.56
9:I2:1051:LYS:CG	14:N3:289:PHE:CD1	2.79	0.56
17:Q1:593:ILE:HG12	17:Q1:683:GLU:OE1	2.05	0.56
17:Q1:705:LYS:HZ1	17:Q1:710:ILE:HG21	1.68	0.56
17:Q1:805:ALA:HB2	17:Q1:815:VAL:HG12	1.86	0.56
17:Q1:1131:ILE:HG23	17:Q1:1132:LYS:N	2.21	0.56
17:Q2:228:ILE:HG12	17:Q2:249:ASN:HB2	1.88	0.56
17:Q2:790:HIS:HB2	17:Q2:814:LEU:CD2	2.36	0.56
18:R1:237:ILE:HD11	18:R1:240:HIS:HA	1.87	0.56
18:R1:558:ILE:CG2	18:R1:581:LEU:HD13	2.31	0.56
18:R1:678:LEU:HG	18:R1:679:LYS:H	1.70	0.56
18:R1:690:PHE:CZ	18:R1:694:VAL:HG21	2.40	0.56
19:R2:34:ASP:HB3	19:R2:35:PRO:HD3	1.88	0.56
20:S1:180:LEU:HD11	20:S1:478:PHE:HE1	1.71	0.56
22:U1:241:ARG:HG2	27:Z1:656:SER:HB2	1.87	0.56
24:W1:245:ILE:HG21	24:W1:311:LEU:HD23	1.88	0.56
24:W1:342:LEU:HD13	24:W1:379:ILE:HD12	1.86	0.56
25:X2:815:GLU:N	26:Y2:1402:LEU:HD22	2.20	0.56
26:Y1:1392:ARG:NH1	27:Z1:693:ILE:HB	2.20	0.56
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:CE	2.32	0.56
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:NZ	2.04	0.56
27:Z1:184:ASP:CG	27:Z1:197:LEU:CB	2.57	0.56
1:A2:1240:HIS:CE1	4:D1:1033:PRO:HG3	2.40	0.56
6:F1:139:GLN:HB3	9:I1:1396:ILE:HG13	1.87	0.56
6:F1:273:ALA:H	9:I1:1209:THR:CA	2.04	0.56
9:I2:813:ILE:CG2	15:O3:241:SER:HB3	2.32	0.56
9:I2:899:LEU:HD23	13:M3:583:ASP:HB3	1.81	0.56
9:I2:1095:TYR:O	15:O3:268:GLY:HA3	2.06	0.56
10:J1:252:LEU:CD2	15:O1:270:THR:HA	2.35	0.56
17:Q1:510:ASN:CB	17:Q1:511:PRO:HD3	2.33	0.56
17:Q1:825:ASP:C	17:Q1:828:THR:H	2.09	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:987:LEU:CB	17:Q1:1005:LEU:HD23	2.34	0.56
17:Q2:564:PHE:O	17:Q2:568:LEU:HG	2.06	0.56
17:Q2:887:TRP:CB	17:Q2:902:THR:HG21	2.36	0.56
18:R1:409:LYS:HZ3	18:R1:448:ILE:H	1.52	0.56
18:R1:613:ILE:CG2	18:R1:614:PRO:HD3	2.34	0.56
19:R2:580:PHE:CE2	19:R2:584:ILE:HG12	2.40	0.56
22:U1:209:PRO:HD3	27:Z1:662:LEU:CA	2.33	0.56
22:U1:238:GLY:HA2	22:U1:305:GLY:O	2.05	0.56
25:X1:815:GLU:CA	26:Y1:1402:LEU:HD22	2.27	0.56
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:CG	2.14	0.56
26:Y2:1333:ASP:CA	27:Z1:92:GLU:O	2.53	0.56
27:Z1:282:GLN:OE1	27:Z1:333:MET:HE2	2.05	0.56
27:Z1:326:LEU:HD23	27:Z1:389:TRP:CZ2	2.35	0.56
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HB2	2.40	0.56
27:Z2:204:ASP:OD2	27:Z2:284:PRO:CB	2.52	0.56
6:F1:138:ILE:N	9:I1:1392:VAL:HB	2.21	0.56
6:F2:142:ALA:O	9:I2:1395:LEU:HD23	1.95	0.56
9:I1:908:ARG:CZ	13:M1:551:LEU:HG	2.36	0.56
9:I2:903:GLY:HA2	13:M3:577:LEU:O	2.05	0.56
9:I2:1034:ASP:HB2	15:O3:284:LYS:HG2	1.88	0.56
9:I2:1103:LEU:O	13:M3:615:PRO:HD3	2.02	0.56
17:Q1:267:VAL:O	17:Q1:267:VAL:HG23	2.04	0.56
17:Q1:391:THR:HG22	17:Q1:392:ASP:N	2.20	0.56
17:Q1:610:LEU:CD2	17:Q1:613:ILE:HD12	2.36	0.56
17:Q1:697:ASP:HB3	17:Q1:698:PRO:HD3	1.87	0.56
17:Q1:1058:LEU:O	17:Q1:1062:VAL:HG23	2.06	0.56
17:Q1:1063:LYS:HE2	17:Q1:1067:ASP:OD1	2.06	0.56
17:Q2:543:GLY:CA	17:Q2:591:PHE:HZ	2.16	0.56
17:Q2:599:LYS:HD2	17:Q2:599:LYS:C	2.26	0.56
17:Q2:610:LEU:HD21	17:Q2:613:ILE:CD1	2.36	0.56
17:Q2:786:LEU:HD12	17:Q2:811:LEU:CD1	2.34	0.56
17:Q2:795:VAL:HG13	17:Q2:796:ASN:N	2.21	0.56
17:Q2:825:ASP:C	17:Q2:828:THR:H	2.09	0.56
18:R1:469:ARG:O	18:R1:471:PRO:HD3	2.05	0.56
18:R1:528:HIS:CD2	18:R1:580:PHE:HB2	2.41	0.56
21:T1:200:LEU:HD11	21:T1:243:TRP:CD1	2.41	0.56
25:X2:750:THR:CG2	25:X2:754:ASN:ND2	2.52	0.56
25:X2:778:LYS:CG	25:X2:794:ILE:CG1	2.84	0.56
26:Y2:1294:LYS:HE2	27:Z2:588:TRP:HD1	1.59	0.56
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:CA	2.82	0.56
27:Z1:63:LEU:HD22	27:Z1:89:PHE:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:158:ASN:CB	27:Z1:161:GLU:HG2	2.36	0.56
27:Z1:592:LEU:HA	27:Z1:595:GLN:HG2	1.87	0.56
27:Z2:282:GLN:C	27:Z2:282:GLN:N	2.53	0.56
27:Z2:592:LEU:HA	27:Z2:595:GLN:HG2	1.87	0.56
6:F2:139:GLN:CG	9:I2:1340:LEU:HD22	2.34	0.56
6:F2:158:PRO:HB2	9:I2:1337:ALA:HB3	1.86	0.56
9:I1:1051:LYS:HZ3	14:N1:289:PHE:HD2	1.53	0.56
9:I1:1314:LEU:CD2	15:O1:266:GLN:HE21	2.19	0.56
9:I2:1026:TYR:CE1	13:M3:610:SER:N	2.68	0.56
9:I2:1031:ALA:C	13:M3:617:THR:HG23	2.04	0.56
9:I2:1103:LEU:HD11	13:M3:611:LYS:CB	2.18	0.56
17:Q1:426:ILE:HD13	17:Q1:477:PHE:HZ	1.70	0.56
17:Q1:1140:VAL:HG23	17:Q1:1141:ALA:N	2.21	0.56
17:Q2:61:PHE:HB2	17:Q2:69:VAL:HG23	1.87	0.56
17:Q2:98:LEU:HD23	17:Q2:98:LEU:C	2.26	0.56
17:Q2:543:GLY:C	17:Q2:637:ASN:HD21	2.08	0.56
17:Q2:656:VAL:O	17:Q2:656:VAL:HG13	2.05	0.56
17:Q2:667:LEU:HD13	17:Q2:667:LEU:C	2.26	0.56
18:R1:580:PHE:CE2	18:R1:584:ILE:HG12	2.40	0.56
18:R1:609:SER:O	18:R1:613:ILE:HG22	2.05	0.56
24:W2:232:ARG:NE	24:W2:249:THR:OG1	2.39	0.56
25:X1:711:LEU:CG	26:Y1:1309:ASP:OD2	2.53	0.56
25:X1:814:LEU:HD11	27:Z1:705:SER:HG	1.65	0.56
26:Y2:1277:LYS:HE2	27:Z2:570:ILE:CB	2.17	0.56
27:Z1:331:LEU:CD1	27:Z1:345:ASN:HA	2.33	0.56
27:Z1:381:ILE:CD1	27:Z1:420:ILE:HG21	2.35	0.56
27:Z2:37:PHE:CE1	27:Z2:440:MET:HE2	2.40	0.56
27:Z2:41:ASN:HA	27:Z2:59:PHE:CZ	2.40	0.56
27:Z2:241:THR:CB	27:Z2:246:LYS:HZ1	2.18	0.56
1:A3:872:SER:O	4:D1:513:ASP:CG	2.44	0.56
1:A4:625:LEU:CA	4:D3:981:VAL:CG2	2.83	0.56
6:F2:135:VAL:HG11	9:I2:1337:ALA:CB	2.35	0.56
6:F2:257:ARG:NH2	6:F2:285:GLU:OE1	2.39	0.56
9:I1:903:GLY:CA	13:M1:575:TYR:CB	2.84	0.56
9:I1:919:ALA:C	15:O1:191:ARG:NH2	2.56	0.56
9:I2:1102:GLN:O	15:O3:275:LEU:HB3	2.05	0.56
17:Q1:543:GLY:CA	17:Q1:591:PHE:HZ	2.16	0.56
17:Q1:791:VAL:HG13	17:Q1:792:LEU:N	2.21	0.56
17:Q1:1013:GLU:HG3	17:Q1:1014:SER:N	2.21	0.56
17:Q2:697:ASP:HB3	17:Q2:698:PRO:HD3	1.87	0.56
17:Q2:708:TRP:CE2	17:Q2:709:PHE:CE1	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:445:CYS:HB3	18:R1:468:LEU:CD2	2.35	0.56
19:R2:635:LEU:HD12	19:R2:655:ILE:HB	1.87	0.56
25:X1:717:LYS:HE3	26:Y1:1320:LEU:HD13	1.82	0.56
25:X2:665:TRP:CE3	25:X2:669:LEU:CD1	2.89	0.56
26:Y1:1345:LEU:CA	26:Y1:1348:LYS:HG2	2.36	0.56
26:Y2:1333:ASP:OD1	27:Z1:109:PHE:CZ	2.41	0.56
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CG	2.83	0.56
27:Z2:120:GLU:C	27:Z2:124:LYS:HE3	2.26	0.56
27:Z2:187:PHE:CD1	27:Z2:194:LEU:HD13	2.41	0.56
6:F2:69:LYS:N	6:F2:106:ASN:OD1	2.39	0.56
9:I1:838:GLU:C	15:O1:198:ARG:HH22	1.95	0.56
9:I1:1304:ASN:CG	15:O1:262:ASP:OD1	2.43	0.56
9:I2:896:PRO:O	15:O3:234:LEU:HD21	2.06	0.56
9:I2:914:ASN:HD22	15:O3:194:GLU:CB	1.82	0.56
9:I2:1102:GLN:OE1	15:O3:269:ILE:O	2.24	0.56
17:Q1:166:ILE:HB	17:Q1:173:ILE:HG21	1.87	0.56
17:Q1:351:ILE:HD12	17:Q1:362:ILE:HD11	1.88	0.56
17:Q1:708:TRP:CE2	17:Q1:709:PHE:CE1	2.94	0.56
17:Q1:760:ILE:HG23	17:Q1:761:ASN:N	2.20	0.56
17:Q1:959:ASN:O	17:Q1:963:LYS:HG3	2.06	0.56
17:Q1:1007:SER:CB	17:Q1:1044:ARG:HD3	2.25	0.56
17:Q2:210:LEU:HD13	17:Q2:210:LEU:C	2.26	0.56
17:Q2:491:VAL:HG12	17:Q2:495:LYS:HE2	1.86	0.56
17:Q2:532:LYS:CB	17:Q2:581:PRO:HD3	2.30	0.56
17:Q2:1058:LEU:O	17:Q2:1062:VAL:HG23	2.06	0.56
19:R2:222:VAL:CG1	20:S2:256:VAL:HA	2.36	0.56
20:S1:433:GLU:OE1	20:S1:467:SER:OG	2.20	0.56
20:S2:156:THR:HG22	20:S2:514:ARG:HD2	1.88	0.56
21:T2:200:LEU:HD11	21:T2:243:TRP:CD1	2.41	0.56
22:U1:206:ALA:N	27:Z1:668:GLU:CD	2.60	0.56
24:W2:101:SER:HA	24:W2:123:LEU:HA	1.87	0.56
25:X1:742:GLN:HG2	25:X1:743:GLN:HB2	1.82	0.56
25:X1:762:LEU:HD11	26:Y1:1352:VAL:HG13	1.88	0.56
25:X2:685:MET:HE2	27:Z2:13:PHE:CZ	2.37	0.56
25:X2:699:TYR:HH	27:Z2:34:ARG:HH12	1.47	0.56
26:Y1:1278:CYS:O	26:Y1:1282:GLN:HG3	2.06	0.56
27:Z1:197:LEU:HB2	27:Z1:302:ILE:HG21	1.85	0.56
27:Z1:307:ILE:CG2	27:Z1:390:ALA:HB1	2.36	0.56
27:Z2:204:ASP:CG	27:Z2:284:PRO:HB2	2.27	0.56
27:Z2:429:ILE:HG21	27:Z2:431:TRP:CE2	2.37	0.56
4:D1:969:HIS:CB	1:A1:711:VAL:HG21	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:77:GLU:OE1	9:I1:77:GLU:N	2.38	0.55
9:I2:1035:GLN:CD	16:P3:142:LEU:C	2.60	0.55
9:I2:1099:ARG:HA	15:O3:272:SER:H	1.71	0.55
17:Q1:346:LEU:HD13	17:Q1:367:ILE:HG23	1.87	0.55
17:Q1:386:PHE:CE2	17:Q1:563:PHE:HD1	2.22	0.55
17:Q1:610:LEU:HD21	17:Q1:613:ILE:CD1	2.35	0.55
17:Q2:298:SER:H	17:Q2:304:PRO:HG3	1.71	0.55
18:R1:406:GLU:HG2	18:R1:409:LYS:HZ1	1.70	0.55
19:R2:527:VAL:O	19:R2:530:ILE:HG22	2.06	0.55
22:U1:243:PHE:CD2	27:Z1:657:TYR:N	2.54	0.55
23:V2:508:LEU:HG	23:V2:522:MET:HE3	1.87	0.55
26:Y2:1301:LYS:O	26:Y2:1305:GLN:HG3	2.06	0.55
26:Y2:1368:LEU:CA	26:Y2:1383:ALA:HB2	2.36	0.55
27:Z2:69:PHE:N	27:Z2:84:ASN:ND2	2.45	0.55
27:Z2:587:LYS:O	27:Z2:591:GLN:CG	2.46	0.55
27:Z2:639:LEU:O	27:Z2:641:PHE:N	2.40	0.55
27:Z2:691:SER:O	27:Z2:695:LYS:HG3	2.05	0.55
1:A3:1099:GLN:HE22	9:I2:1416:GLY:C	1.97	0.55
6:F1:1265:GLN:HA	15:O2:252:VAL:CB	2.31	0.55
9:I2:717:GLU:N	9:I2:717:GLU:OE1	2.39	0.55
9:I2:1305:LEU:CG	15:O3:260:LEU:CD1	2.73	0.55
17:Q1:98:LEU:HD23	17:Q1:98:LEU:C	2.26	0.55
17:Q1:382:ARG:HH12	17:Q1:513:ASP:HA	1.72	0.55
17:Q1:527:ILE:H	17:Q1:527:ILE:CD1	2.19	0.55
17:Q1:847:LEU:CD1	17:Q1:879:ALA:HB1	2.35	0.55
17:Q1:982:GLU:OE2	17:Q1:986:ILE:HG12	2.06	0.55
17:Q2:316:ILE:HD11	17:Q2:331:LEU:HD21	1.87	0.55
17:Q2:588:ILE:HG23	17:Q2:589:GLU:N	2.21	0.55
17:Q2:788:TRP:O	17:Q2:792:LEU:HD13	2.06	0.55
17:Q2:960:ILE:HD13	17:Q2:1005:LEU:HD12	1.84	0.55
17:Q2:1043:ARG:NH1	17:Q2:1113:ILE:HG23	2.19	0.55
19:R2:163:ARG:HD3	20:S2:292:ILE:HD11	1.88	0.55
19:R2:530:ILE:HD13	19:R2:553:ASN:HB2	1.86	0.55
19:R2:620:LEU:HD13	19:R2:620:LEU:C	2.27	0.55
22:U1:241:ARG:HG2	27:Z1:656:SER:HB3	1.87	0.55
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HB2	2.41	0.55
27:Z1:26:ILE:CG2	27:Z1:440:MET:HG3	2.33	0.55
27:Z1:679:GLU:O	27:Z1:683:LEU:HG	2.06	0.55
27:Z2:209:TYR:HD1	27:Z2:210:PRO:HD3	1.64	0.55
1:A3:1224:PRO:O	1:A4:647:GLU:HG3	2.06	0.55
4:D1:673:LEU:HD12	1:A1:1094:ILE:CG1	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1305:LEU:HB3	15:O3:264:ILE:CG1	2.25	0.55
13:M2:598:GLU:OE1	15:O2:254:ARG:NH1	2.40	0.55
17:Q1:599:LYS:HD3	17:Q1:603:ILE:HD11	1.87	0.55
17:Q2:166:ILE:HB	17:Q2:173:ILE:HG21	1.87	0.55
17:Q2:973:LYS:HD3	17:Q2:976:LYS:HZ1	1.72	0.55
17:Q2:1140:VAL:HG23	17:Q2:1141:ALA:N	2.21	0.55
18:R1:163:ARG:HD3	20:S1:292:ILE:HD11	1.88	0.55
18:R1:635:LEU:HD12	18:R1:655:ILE:HB	1.87	0.55
18:R1:677:LEU:HD11	18:R1:724:LEU:HD13	1.88	0.55
19:R2:677:LEU:HD11	19:R2:724:LEU:HD13	1.88	0.55
20:S2:199:THR:HB	20:S2:213:GLU:HB2	1.87	0.55
22:U1:209:PRO:HG3	27:Z1:662:LEU:CG	2.36	0.55
22:U1:297:LEU:C	27:Z1:654:ASP:CA	2.67	0.55
24:W1:530:LYS:CA	24:W1:743:ASN:O	2.54	0.55
25:X1:700:ILE:CD1	26:Y1:1298:TYR:HD1	2.07	0.55
25:X1:807:LEU:CD2	27:Z1:698:ASN:CA	2.54	0.55
25:X2:776:PHE:CE2	26:Y2:1369:PHE:CD1	2.90	0.55
26:Y2:1334:LEU:HB3	27:Z1:105:ILE:O	2.02	0.55
26:Y2:1365:ILE:HB	26:Y2:1383:ALA:O	1.98	0.55
27:Z1:164:ILE:CD1	27:Z1:277:ARG:HH12	2.09	0.55
27:Z1:204:ASP:CG	27:Z1:284:PRO:HB2	2.27	0.55
27:Z1:591:GLN:O	27:Z1:595:GLN:HG2	2.05	0.55
27:Z2:233:MET:HE2	27:Z2:249:VAL:HG22	1.89	0.55
27:Z2:248:ASN:HD22	27:Z2:342:TYR:HE1	1.53	0.55
27:Z2:263:TRP:HD1	27:Z2:270:VAL:HG21	1.70	0.55
27:Z2:592:LEU:CD2	27:Z2:595:GLN:OE1	2.54	0.55
1:A3:871:ASN:CA	4:D1:515:ASN:CB	2.44	0.55
6:F1:159:ALA:HA	9:I1:1335:LYS:CG	2.25	0.55
6:F1:197:ASP:OD1	6:F1:295:GLN:NE2	2.36	0.55
6:F1:1392:LEU:CD1	15:O2:259:ASP:OD1	2.55	0.55
6:F2:143:GLY:N	9:I2:1395:LEU:HG	2.19	0.55
9:I1:925:LEU:CD1	15:O1:184:ARG:CG	2.85	0.55
9:I2:965:ALA:CB	15:O3:182:THR:CG2	2.81	0.55
9:I2:1112:SER:HB3	10:J2:241:THR:HB	1.87	0.55
9:I2:1256:TYR:O	15:O3:256:TYR:HE1	1.74	0.55
17:Q1:552:THR:O	17:Q1:556:HIS:HB2	2.07	0.55
17:Q1:606:GLN:HG3	17:Q1:608:ASP:H	1.72	0.55
17:Q1:633:THR:HG23	17:Q1:634:VAL:N	2.20	0.55
17:Q2:170:SER:HB2	17:Q2:200:ILE:CD1	2.35	0.55
17:Q2:391:THR:HG22	17:Q2:392:ASP:N	2.20	0.55
17:Q2:853:LYS:O	17:Q2:853:LYS:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:527:VAL:O	18:R1:530:ILE:HG22	2.05	0.55
18:R1:691:THR:HG21	18:R1:718:VAL:HG21	1.87	0.55
21:T1:117:LEU:HB2	21:T1:153:TRP:NE1	2.20	0.55
25:X1:750:THR:CG2	25:X1:754:ASN:ND2	2.52	0.55
25:X2:704:GLN:CD	27:Z2:598:LEU:CD1	2.73	0.55
26:Y1:1301:LYS:O	26:Y1:1305:GLN:HG3	2.07	0.55
27:Z1:116:ILE:CD1	27:Z1:125:SER:C	2.69	0.55
27:Z1:124:LYS:CD	27:Z1:126:SER:H	2.16	0.55
27:Z2:285:PHE:HE1	27:Z2:333:MET:CE	2.20	0.55
1:A2:1204:TRP:CE3	1:A1:648:TYR:HB3	2.42	0.55
1:A2:1226:LEU:HD13	1:A1:646:ILE:HD12	1.87	0.55
1:A2:1228:TYR:CE2	1:A1:639:ASN:HB3	2.41	0.55
1:A3:1402:ASP:C	4:D3:824:ARG:HD2	2.21	0.55
4:D1:672:SER:OG	1:A1:1094:ILE:CD1	2.53	0.55
6:F1:1556:GLN:N	6:F1:1630:GLU:OE1	2.40	0.55
9:I1:908:ARG:CA	15:O1:209:LEU:HD11	2.35	0.55
9:I1:919:ALA:O	15:O1:191:ARG:N	2.39	0.55
9:I2:1034:ASP:O	15:O3:284:LYS:HD3	2.07	0.55
9:I2:1308:THR:HA	14:N3:413:VAL:HG12	1.86	0.55
17:Q1:62:THR:O	17:Q1:68:ILE:HG12	2.06	0.55
17:Q1:386:PHE:CZ	17:Q1:563:PHE:HD1	2.25	0.55
17:Q1:644:VAL:HG13	17:Q1:645:ILE:N	2.22	0.55
17:Q1:865:PRO:O	17:Q1:869:ASP:HB3	2.07	0.55
17:Q1:877:GLU:OE1	17:Q1:889:GLN:HB2	2.07	0.55
17:Q1:969:VAL:HG12	17:Q1:970:GLN:N	2.22	0.55
17:Q1:1002:LEU:HD23	17:Q1:1021:LEU:HD13	1.89	0.55
18:R1:222:VAL:CG1	20:S1:256:VAL:HA	2.36	0.55
19:R2:528:HIS:CD2	19:R2:580:PHE:HB2	2.40	0.55
23:V1:461:MET:O	23:V1:465:MET:HG3	2.07	0.55
25:X1:714:PHE:HE2	26:Y1:1316:GLU:HB2	1.72	0.55
25:X2:778:LYS:HZ3	25:X2:795:LYS:CB	2.12	0.55
25:X2:807:LEU:HD13	27:Z2:697:CYS:HB2	1.87	0.55
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:NZ	2.74	0.55
26:Y2:1452:PHE:CE2	27:Z2:402:LEU:CD1	2.88	0.55
27:Z1:63:LEU:HD11	27:Z1:69:PHE:CE2	2.42	0.55
27:Z1:187:PHE:CD1	27:Z1:194:LEU:HD13	2.41	0.55
27:Z1:328:PHE:HE1	27:Z1:330:ASP:HB2	1.71	0.55
27:Z2:437:LEU:HD12	27:Z2:448:GLN:HE21	0.59	0.55
6:F1:1265:GLN:OE1	15:O2:248:SER:HB2	2.05	0.55
6:F1:1290:VAL:HG12	6:F1:1290:VAL:O	2.06	0.55
9:I1:465:GLU:N	9:I1:465:GLU:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:841:PHE:O	15:O3:190:ARG:CD	2.53	0.55
9:I2:914:ASN:C	15:O3:194:GLU:N	2.59	0.55
9:I2:964:SER:CB	16:P3:153:GLN:N	2.69	0.55
17:Q1:60:VAL:O	17:Q1:60:VAL:HG13	2.05	0.55
17:Q1:394:LYS:CG	17:Q1:395:PHE:H	2.19	0.55
17:Q1:688:THR:CG2	17:Q1:692:GLU:HB2	2.37	0.55
17:Q1:696:LEU:HD13	17:Q1:696:LEU:C	2.27	0.55
17:Q1:704:SER:C	17:Q1:707:PRO:HD2	2.27	0.55
17:Q2:60:VAL:O	17:Q2:60:VAL:HG13	2.06	0.55
17:Q2:215:GLU:HB3	17:Q2:216:PRO:HD3	1.88	0.55
17:Q2:267:VAL:O	17:Q2:267:VAL:HG23	2.04	0.55
17:Q2:316:ILE:HG13	17:Q2:317:LEU:N	2.20	0.55
17:Q2:590:LYS:O	17:Q2:594:LEU:HD13	2.07	0.55
17:Q2:606:GLN:HG3	17:Q2:608:ASP:H	1.72	0.55
17:Q2:610:LEU:CD2	17:Q2:613:ILE:HD12	2.36	0.55
17:Q2:615:GLU:CB	17:Q2:645:ILE:HG12	2.37	0.55
17:Q2:650:LEU:CD1	17:Q2:666:LYS:HA	2.37	0.55
17:Q2:791:VAL:HG13	17:Q2:792:LEU:N	2.21	0.55
17:Q2:1063:LYS:HE2	17:Q2:1067:ASP:OD1	2.06	0.55
17:Q2:1071:PRO:CG	17:Q2:1155:VAL:HG21	2.37	0.55
19:R2:410:SER:HA	19:R2:436:LEU:HD11	1.88	0.55
20:S1:567:LEU:O	21:T1:86:ASN:ND2	2.40	0.55
23:V1:163:LYS:HB2	23:V1:172:PHE:CE1	2.41	0.55
25:X1:725:VAL:CG2	27:Z1:612:ILE:HG23	2.27	0.55
25:X2:658:TYR:CE2	27:Z2:549:ILE:HD13	2.35	0.55
25:X2:745:TYR:CB	27:Z1:104:SER:HB2	2.37	0.55
26:Y2:1332:LYS:HD3	27:Z1:95:TRP:C	2.26	0.55
27:Z1:639:LEU:O	27:Z1:641:PHE:N	2.40	0.55
27:Z2:209:TYR:N	27:Z2:210:PRO:HD2	2.21	0.55
27:Z2:263:TRP:CZ3	27:Z2:265:SER:CB	2.74	0.55
27:Z2:417:ILE:CG2	27:Z2:448:GLN:HE22	2.12	0.55
27:Z2:434:GLN:HB3	27:Z2:580:LYS:NZ	2.01	0.55
1:A3:1223:GLU:HG3	1:A4:648:TYR:CD1	2.41	0.55
1:A4:127:HIS:CE1	4:D3:1009:ARG:CB	2.89	0.55
6:F1:1806:ARG:O	14:N2:412:ASN:CB	2.55	0.55
6:F2:1556:GLN:N	6:F2:1630:GLU:OE1	2.40	0.55
9:I1:1112:SER:CB	10:J1:241:THR:HB	2.37	0.55
9:I2:896:PRO:HB2	13:M3:588:MET:HE3	1.88	0.55
9:I2:1112:SER:CB	10:J2:241:THR:HB	2.37	0.55
17:Q1:298:SER:H	17:Q1:304:PRO:HG3	1.71	0.55
17:Q1:681:ILE:HG21	17:Q1:750:TYR:HE1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:291:ILE:HD13	17:Q2:311:ASN:CB	2.36	0.55
17:Q2:351:ILE:HD12	17:Q2:362:ILE:HD11	1.89	0.55
17:Q2:527:ILE:H	17:Q2:527:ILE:CD1	2.19	0.55
17:Q2:696:LEU:HD13	17:Q2:696:LEU:C	2.27	0.55
19:R2:543:VAL:HG23	19:R2:544:LYS:N	2.20	0.55
23:V1:508:LEU:HG	23:V1:522:MET:HE3	1.87	0.55
24:W1:406:ARG:HD3	24:W1:720:PHE:CB	2.37	0.55
24:W2:288:VAL:HG12	24:W2:300:MET:HB3	1.88	0.55
25:X1:676:ILE:HD11	26:Y1:1274:ASN:OD1	2.03	0.55
25:X2:695:GLN:HE21	27:Z2:431:TRP:CD2	1.64	0.55
26:Y1:1298:TYR:CE1	26:Y1:1302:ASP:OD2	2.60	0.55
26:Y2:1345:LEU:CA	26:Y2:1348:LYS:HG2	2.36	0.55
26:Y2:1369:PHE:HE2	27:Z2:683:LEU:CD2	2.15	0.55
27:Z1:186:GLU:HG3	27:Z1:303:ALA:HA	1.89	0.55
27:Z1:209:TYR:HD1	27:Z1:210:PRO:HD3	1.65	0.55
27:Z1:326:LEU:CB	27:Z1:352:GLU:CG	2.83	0.55
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HG21	2.42	0.55
27:Z2:88:ILE:HD12	27:Z2:114:TYR:CD2	2.42	0.55
27:Z2:102:ASP:HB3	27:Z2:105:ILE:HG13	1.86	0.55
27:Z2:145:LEU:HD21	27:Z2:182:ILE:HG21	1.87	0.55
1:A4:521:ASN:CB	4:D3:1019:ARG:HH22	2.01	0.55
6:F2:140:GLU:O	9:I2:1394:ASN:HB3	2.07	0.55
7:G1:256:GLN:N	15:O2:245:GLU:CB	2.63	0.55
9:I1:912:VAL:HG22	15:O1:198:ARG:NH1	2.16	0.55
9:I1:1048:GLU:OE1	15:O1:168:ALA:C	2.45	0.55
9:I2:894:VAL:C	13:M3:587:GLU:HG2	2.27	0.55
13:M3:598:GLU:OE1	15:O3:254:ARG:NH1	2.40	0.55
17:Q1:291:ILE:CD1	17:Q1:311:ASN:HD22	2.20	0.55
17:Q1:714:TYR:HD2	17:Q1:717:CYS:SG	2.24	0.55
17:Q2:704:SER:C	17:Q2:707:PRO:HD2	2.27	0.55
17:Q2:917:LEU:O	17:Q2:917:LEU:HD23	2.07	0.55
17:Q2:959:ASN:O	17:Q2:963:LYS:HG3	2.06	0.55
17:Q2:1013:GLU:HG3	17:Q2:1014:SER:N	2.21	0.55
19:R2:210:MET:O	20:S2:325:TYR:OH	2.21	0.55
20:S2:180:LEU:HD11	20:S2:478:PHE:HE1	1.71	0.55
23:V1:159:ILE:HG21	23:V1:176:GLU:HG2	1.87	0.55
23:V2:163:LYS:HB2	23:V2:172:PHE:CE1	2.41	0.55
24:W2:245:ILE:HG21	24:W2:311:LEU:HD23	1.88	0.55
25:X2:666:ASP:OD1	27:Z2:556:GLN:NE2	2.25	0.55
25:X2:680:TYR:HH	27:Z2:439:LEU:HG	1.72	0.55
25:X2:714:PHE:HZ	27:Z2:609:LEU:CD2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1385:LEU:HD12	27:Z1:683:LEU:HD21	1.85	0.55
27:Z1:153:MET:SD	27:Z1:211:PHE:CE2	2.95	0.55
27:Z2:12:ILE:CD1	27:Z2:44:ARG:HB3	2.35	0.55
27:Z2:63:LEU:HD22	27:Z2:89:PHE:CD1	2.41	0.55
27:Z2:209:TYR:CE2	27:Z2:335:MET:HA	2.42	0.55
27:Z2:280:LYS:HE2	27:Z2:338:ASP:O	2.06	0.55
27:Z2:311:GLN:OE1	27:Z2:313:GLU:OE2	2.25	0.55
1:A2:1201:ARG:CD	1:A1:647:GLU:HB3	2.33	0.55
1:A4:127:HIS:HE1	4:D3:1009:ARG:N	1.96	0.55
7:G1:255:LEU:CD2	15:O2:244:GLU:N	2.69	0.55
9:I1:1038:ILE:HD11	15:O1:179:LEU:HD13	1.67	0.55
9:I2:922:ASP:N	16:P3:157:GLU:HG3	2.22	0.55
9:I2:1305:LEU:HB2	15:O3:263:GLN:CG	2.37	0.55
10:J2:248:VAL:CG1	14:N3:428:ASP:OD2	2.55	0.55
17:Q1:61:PHE:HB2	17:Q1:69:VAL:HG23	1.87	0.55
17:Q1:416:ILE:O	17:Q1:417:LEU:HD23	2.06	0.55
17:Q1:788:TRP:O	17:Q1:792:LEU:HD13	2.06	0.55
17:Q1:820:THR:CG2	17:Q1:821:LEU:HD12	2.35	0.55
17:Q1:877:GLU:CB	17:Q1:889:GLN:HB2	2.37	0.55
17:Q2:416:ILE:O	17:Q2:417:LEU:HD23	2.06	0.55
17:Q2:801:CYS:SG	17:Q2:814:LEU:HD13	2.47	0.55
17:Q2:982:GLU:OE2	17:Q2:986:ILE:HG12	2.06	0.55
22:U1:207:LYS:HD3	27:Z1:663:THR:O	0.73	0.55
22:U2:15:VAL:O	23:V2:70:LYS:HD2	2.07	0.55
24:W1:530:LYS:CG	24:W1:746:CYS:N	2.69	0.55
25:X2:655:PHE:CE1	27:Z2:545:LEU:CB	2.72	0.55
25:X2:695:GLN:HE21	27:Z2:431:TRP:NE1	1.45	0.55
25:X2:707:LEU:O	25:X2:711:LEU:HG	2.06	0.55
25:X2:778:LYS:CB	25:X2:794:ILE:N	2.69	0.55
26:Y1:1392:ARG:NH2	27:Z1:690:ASP:HA	2.09	0.55
26:Y2:1412:GLU:CG	27:Z1:254:GLN:HB2	2.24	0.55
27:Z1:45:TRP:NE1	27:Z1:95:TRP:CZ3	2.47	0.55
27:Z1:81:CYS:HB2	27:Z1:132:PHE:HZ	1.70	0.55
27:Z1:691:SER:O	27:Z1:695:LYS:HG3	2.05	0.55
27:Z2:389:TRP:CE2	27:Z2:410:PHE:HE1	1.99	0.55
1:A2:1229:VAL:CG2	1:A1:643:ALA:CB	2.85	0.55
1:A3:1327:VAL:O	4:D3:876:SER:HB3	2.04	0.55
4:D1:1030:ALA:HB1	1:A1:633:MET:CE	2.37	0.55
6:F1:163:ASP:CG	9:I1:1331:LYS:CB	2.49	0.55
6:F1:650:ASN:OD1	6:F1:651:THR:N	2.40	0.55
6:F2:650:ASN:OD1	6:F2:651:THR:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:1290:VAL:HG12	6:F2:1290:VAL:O	2.06	0.55
7:G1:255:LEU:CA	15:O2:245:GLU:C	2.63	0.55
9:I1:904:GLU:OE2	13:M1:577:LEU:HD12	2.06	0.55
9:I1:918:SER:O	15:O1:193:ALA:HB3	2.06	0.55
9:I1:1051:LYS:HE3	14:N1:290:VAL:HA	1.88	0.55
9:I2:892:HIS:C	13:M3:588:MET:HA	2.27	0.55
9:I2:1165:SER:HB3	15:O3:269:ILE:CD1	2.24	0.55
17:Q1:539:PHE:CE1	17:Q1:567:PHE:CD2	2.95	0.55
17:Q1:928:LYS:O	17:Q1:932:LEU:HG	2.06	0.55
17:Q2:969:VAL:HG12	17:Q2:970:GLN:N	2.21	0.55
22:U2:128:LEU:HD23	22:U2:169:PHE:HB3	1.89	0.55
23:V1:280:VAL:HG21	23:V1:321:ALA:HB3	1.89	0.55
23:V2:461:MET:O	23:V2:465:MET:HG3	2.07	0.55
25:X1:821:ILE:HD11	27:Z1:708:PHE:HE1	1.72	0.55
25:X2:700:ILE:CA	26:Y2:1298:TYR:HE1	2.08	0.55
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:HG23	1.88	0.55
27:Z2:63:LEU:HD11	27:Z2:69:PHE:CE2	2.42	0.55
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HG21	2.42	0.55
1:A2:1220:PRO:C	1:A1:596:ARG:HA	2.26	0.54
1:A2:1328:ARG:O	4:D1:902:SER:CB	2.55	0.54
6:F1:1806:ARG:CB	14:N2:412:ASN:ND2	2.64	0.54
6:F1:1807:GLU:C	14:N2:412:ASN:CA	2.65	0.54
9:I2:893:LEU:HD11	15:O3:243:LEU:CB	2.30	0.54
9:I2:1304:ASN:ND2	14:N3:414:ALA:H	2.04	0.54
13:M4:598:GLU:OE1	15:O4:254:ARG:NH1	2.40	0.54
17:Q1:506:LYS:CE	17:Q1:563:PHE:HZ	2.21	0.54
17:Q1:615:GLU:CB	17:Q1:645:ILE:HG12	2.37	0.54
17:Q1:650:LEU:CD1	17:Q1:666:LYS:HA	2.37	0.54
17:Q1:680:GLY:HA2	17:Q1:683:GLU:HB3	1.89	0.54
17:Q1:708:TRP:CZ2	17:Q1:709:PHE:CE1	2.95	0.54
17:Q1:917:LEU:O	17:Q1:917:LEU:HD23	2.07	0.54
17:Q1:1071:PRO:CG	17:Q1:1155:VAL:HG21	2.37	0.54
17:Q2:669:VAL:HG23	17:Q2:670:THR:N	2.23	0.54
17:Q2:708:TRP:CZ2	17:Q2:709:PHE:CE1	2.95	0.54
17:Q2:824:ASN:HD21	17:Q2:833:GLU:CG	2.20	0.54
17:Q2:1043:ARG:CG	17:Q2:1120:VAL:HG21	2.35	0.54
18:R1:620:LEU:HD13	18:R1:620:LEU:C	2.27	0.54
18:R1:658:LEU:O	18:R1:662:PHE:HD1	1.90	0.54
21:T1:95:HIS:CE1	21:T1:97:VAL:HG22	2.42	0.54
22:U1:243:PHE:CB	27:Z1:657:TYR:CA	2.80	0.54
22:U1:324:ASP:HB3	23:V1:64:LYS:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:186:ARG:HA	23:V2:190:PHE:HB2	1.90	0.54
25:X2:694:ASP:CB	27:Z2:432:ASN:N	2.65	0.54
25:X2:778:LYS:HG3	25:X2:794:ILE:CB	2.38	0.54
26:Y1:1450:GLY:HA2	27:Z1:328:PHE:CZ	2.42	0.54
27:Z1:522:GLU:O	27:Z1:526:GLU:OE2	2.25	0.54
27:Z2:52:SER:O	27:Z2:53:LEU:HG	2.07	0.54
27:Z2:326:LEU:HD23	27:Z2:410:PHE:CZ	2.42	0.54
27:Z2:331:LEU:CD1	27:Z2:345:ASN:HA	2.33	0.54
6:F1:257:ARG:NH2	6:F1:285:GLU:OE1	2.39	0.54
6:F1:1336:GLU:N	6:F1:1336:GLU:OE1	2.36	0.54
9:I1:916:ALA:CA	13:M1:534:GLN:HE21	2.20	0.54
9:I1:977:ASN:HB2	15:O1:174:LEU:O	2.03	0.54
9:I1:1315:GLN:HG3	15:O1:266:GLN:O	2.06	0.54
9:I2:919:ALA:CB	16:P3:156:GLY:HA3	2.37	0.54
9:I2:964:SER:HA	16:P3:149:ARG:HA	0.56	0.54
9:I2:1106:LYS:CD	15:O3:275:LEU:HD12	2.31	0.54
9:I2:1255:HIS:H	14:N3:408:MET:HA	1.72	0.54
10:J1:250:THR:CB	15:O1:277:GLU:HA	2.37	0.54
17:Q1:588:ILE:HG23	17:Q1:589:GLU:N	2.21	0.54
17:Q1:590:LYS:O	17:Q1:594:LEU:HD13	2.07	0.54
17:Q1:1016:PHE:HE1	17:Q1:1065:VAL:HG13	1.71	0.54
17:Q2:284:TYR:CD1	17:Q2:347:PHE:CZ	2.95	0.54
17:Q2:539:PHE:CE1	17:Q2:567:PHE:CD2	2.95	0.54
19:R2:155:SER:HA	20:S2:351:ILE:HA	1.88	0.54
19:R2:550:MET:CB	19:R2:587:TYR:HE2	2.20	0.54
22:U1:340:LYS:NZ	27:Z1:646:HIS:CE1	2.73	0.54
24:W1:288:VAL:HG12	24:W1:300:MET:HB3	1.88	0.54
25:X1:690:GLN:CD	27:Z1:577:LEU:HB3	2.01	0.54
25:X1:704:GLN:NE2	27:Z1:598:LEU:CD1	2.63	0.54
25:X1:714:PHE:HZ	27:Z1:609:LEU:CD2	2.05	0.54
25:X2:710:PHE:HZ	26:Y2:1313:ALA:HB1	1.70	0.54
26:Y2:1278:CYS:O	26:Y2:1282:GLN:HG3	2.07	0.54
27:Z1:69:PHE:N	27:Z1:84:ASN:ND2	2.45	0.54
27:Z1:285:PHE:HE1	27:Z1:333:MET:CE	2.20	0.54
27:Z1:366:LEU:HD23	27:Z1:374:TYR:HE2	1.63	0.54
27:Z1:374:TYR:CD1	27:Z1:383:GLN:HG2	2.42	0.54
27:Z1:544:THR:C	27:Z2:558:PHE:HD2	2.10	0.54
27:Z2:8:SER:HG	27:Z2:447:PHE:HD1	1.48	0.54
27:Z2:26:ILE:HG22	27:Z2:440:MET:SD	2.43	0.54
27:Z2:158:ASN:CB	27:Z2:161:GLU:HG2	2.36	0.54
1:A2:1269:ALA:C	1:A1:730:THR:OG1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1222:ALA:C	1:A4:648:TYR:OH	2.28	0.54
1:A3:1402:ASP:CB	4:D3:821:GLU:OE2	2.54	0.54
6:F1:1392:LEU:HD11	15:O2:259:ASP:OD1	2.07	0.54
9:I1:961:ARG:NH1	15:O1:190:ARG:HB2	2.21	0.54
9:I2:928:LEU:CB	15:O3:179:LEU:CD2	2.75	0.54
9:I2:1102:GLN:HG2	15:O3:274:GLY:N	1.94	0.54
13:M1:598:GLU:OE1	15:O1:254:ARG:NH1	2.40	0.54
17:Q1:210:LEU:HD13	17:Q1:210:LEU:C	2.26	0.54
17:Q1:215:GLU:HB3	17:Q1:216:PRO:HD3	1.88	0.54
17:Q1:362:ILE:C	17:Q1:362:ILE:HD12	2.28	0.54
17:Q1:382:ARG:NH1	17:Q1:513:ASP:N	2.54	0.54
17:Q1:790:HIS:HB2	17:Q1:814:LEU:CD2	2.36	0.54
17:Q1:903:LEU:O	17:Q1:906:ILE:HG12	2.08	0.54
17:Q2:365:THR:HG21	17:Q2:433:LEU:HD21	1.90	0.54
17:Q2:394:LYS:CG	17:Q2:395:PHE:H	2.19	0.54
17:Q2:506:LYS:CE	17:Q2:563:PHE:HZ	2.21	0.54
17:Q2:512:ILE:HG22	17:Q2:514:PHE:H	1.73	0.54
17:Q2:922:LEU:HD21	19:R2:688:LEU:HD23	1.88	0.54
18:R1:155:SER:HA	20:S1:351:ILE:HA	1.88	0.54
18:R1:550:MET:HB3	18:R1:587:TYR:CE2	2.43	0.54
19:R2:682:LYS:HG2	19:R2:683:PHE:N	2.18	0.54
21:T1:236:GLN:HB2	21:T1:243:TRP:CE3	2.42	0.54
21:T2:49:LEU:HB3	21:T2:82:TRP:CZ3	2.42	0.54
21:T2:236:GLN:HB2	21:T2:243:TRP:CE3	2.42	0.54
22:U1:289:GLN:HA	26:Y1:1372:LYS:C	2.27	0.54
25:X1:800:HIS:N	26:Y1:1372:LYS:CA	2.70	0.54
25:X2:662:ILE:HD13	27:Z1:541:LYS:HZ1	1.67	0.54
25:X2:693:ILE:HB	27:Z2:7:LEU:HD21	1.84	0.54
26:Y2:1403:ARG:HE	27:Z2:704:VAL:CG2	2.20	0.54
27:Z1:12:ILE:CD1	27:Z1:54:TYR:CB	2.72	0.54
27:Z1:52:SER:O	27:Z1:53:LEU:HG	2.07	0.54
27:Z1:88:ILE:HD12	27:Z1:114:TYR:CD2	2.42	0.54
27:Z1:543:GLN:O	27:Z2:554:HIS:CE1	2.46	0.54
27:Z2:129:LYS:CD	27:Z2:145:LEU:CD2	2.72	0.54
1:A2:1204:TRP:HB2	1:A1:595:GLU:CG	2.36	0.54
6:F1:1807:GLU:CA	14:N2:411:GLN:NE2	2.70	0.54
6:F2:1263:MET:O	6:F2:1267:ARG:N	2.41	0.54
9:I1:904:GLU:HG2	13:M1:573:ARG:O	1.93	0.54
9:I1:1314:LEU:HD22	15:O1:266:GLN:NE2	2.20	0.54
9:I1:1425:TYR:OH	9:I1:1482:ASP:OD2	2.23	0.54
9:I2:963:LEU:C	16:P3:152:LYS:CE	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1030:ARG:NH2	13:M3:608:LYS:N	2.56	0.54
9:I2:1095:TYR:CE1	15:O3:267:ALA:CA	2.51	0.54
9:I2:1305:LEU:CD1	15:O3:260:LEU:HD12	2.37	0.54
17:Q1:228:ILE:HG12	17:Q1:249:ASN:HB2	1.88	0.54
17:Q1:288:ASN:C	17:Q1:333:ILE:HG22	2.28	0.54
17:Q1:333:ILE:HD11	17:Q1:349:SER:HB2	1.90	0.54
17:Q1:361:TYR:O	17:Q1:511:PRO:CG	2.55	0.54
17:Q1:550:LEU:HD13	17:Q1:550:LEU:C	2.27	0.54
17:Q1:564:PHE:CZ	17:Q1:588:ILE:HD13	2.37	0.54
17:Q1:667:LEU:HD13	17:Q1:667:LEU:C	2.27	0.54
17:Q1:684:GLU:HA	17:Q1:688:THR:HB	1.90	0.54
17:Q1:824:ASN:HD21	17:Q1:833:GLU:CG	2.20	0.54
17:Q2:62:THR:O	17:Q2:68:ILE:HG12	2.06	0.54
17:Q2:362:ILE:C	17:Q2:362:ILE:HD12	2.28	0.54
17:Q2:419:MET:HE3	17:Q2:465:LEU:HD11	1.89	0.54
17:Q2:429:VAL:HG12	17:Q2:430:ASN:N	2.21	0.54
17:Q2:688:THR:CG2	17:Q2:692:GLU:HB2	2.37	0.54
17:Q2:1016:PHE:CE2	17:Q2:1020:ARG:HG3	2.43	0.54
22:U1:15:VAL:O	23:V1:70:LYS:HD2	2.07	0.54
22:U1:206:ALA:CA	27:Z1:665:ILE:HG13	2.34	0.54
25:X1:658:TYR:HD1	26:Y1:1239:PHE:CE1	2.24	0.54
25:X1:788:ASP:C	25:X1:792:GLN:HE21	2.11	0.54
25:X1:789:GLU:CD	27:Z1:680:TRP:CG	2.80	0.54
25:X2:774:ASN:HA	25:X2:797:LEU:HD11	1.65	0.54
25:X2:791:ILE:HG23	25:X2:794:ILE:HD11	1.89	0.54
25:X2:821:ILE:HD11	27:Z2:708:PHE:HE1	1.72	0.54
26:Y2:1298:TYR:CE1	26:Y2:1302:ASP:OD2	2.60	0.54
27:Z1:35:ILE:CG1	27:Z1:46:TYR:CE2	2.79	0.54
27:Z1:311:GLN:OE1	27:Z1:313:GLU:OE2	2.25	0.54
27:Z1:369:GLN:OE1	27:Z1:372:LYS:NZ	2.36	0.54
27:Z1:541:LYS:HA	27:Z2:554:HIS:N	2.19	0.54
27:Z1:641:PHE:HZ	27:Z1:645:VAL:HG22	1.61	0.54
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CD2	2.41	0.54
1:A4:827:ILE:CG1	1:A4:849:SER:N	2.71	0.54
6:F1:142:ALA:HB1	9:I1:1395:LEU:CA	2.37	0.54
6:F1:990:GLN:HG2	9:I1:1394:ASN:HD22	1.72	0.54
6:F2:142:ALA:CB	9:I2:1395:LEU:CD2	2.81	0.54
7:G2:253:SER:C	15:O4:249:ARG:O	2.46	0.54
9:I1:624:GLU:O	9:I1:627:ASN:ND2	2.40	0.54
9:I2:8:GLU:N	9:I2:8:GLU:OE1	2.39	0.54
9:I2:982:GLN:HG2	15:O3:179:LEU:HD11	1.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1029:LEU:N	13:M3:612:PRO:O	2.40	0.54
9:I2:1034:ASP:OD2	15:O3:287:LEU:HD23	2.07	0.54
17:Q1:284:TYR:CD1	17:Q1:347:PHE:CZ	2.95	0.54
17:Q1:509:ALA:HB1	17:Q1:573:LYS:NZ	2.22	0.54
17:Q1:564:PHE:CE2	17:Q1:568:LEU:HD21	2.43	0.54
17:Q1:564:PHE:HE2	17:Q1:568:LEU:HD11	1.73	0.54
17:Q1:584:LYS:HD2	17:Q1:586:ASP:HB2	1.90	0.54
17:Q1:1043:ARG:O	17:Q1:1046:VAL:HG22	2.07	0.54
17:Q2:416:ILE:HD11	17:Q2:427:THR:CB	2.27	0.54
17:Q2:500:GLN:HA	17:Q2:503:TYR:HD2	1.72	0.54
17:Q2:557:LEU:CD1	17:Q2:632:LYS:HD2	2.38	0.54
17:Q2:903:LEU:O	17:Q2:906:ILE:HG12	2.08	0.54
17:Q2:928:LYS:O	17:Q2:932:LEU:HG	2.07	0.54
17:Q2:987:LEU:HD12	17:Q2:1008:MET:CE	2.37	0.54
18:R1:410:SER:HA	18:R1:436:LEU:HD11	1.88	0.54
18:R1:575:GLU:HA	18:R1:575:GLU:OE1	2.08	0.54
19:R2:618:GLU:O	19:R2:621:GLN:HG2	2.08	0.54
19:R2:661:PRO:HA	19:R2:705:PHE:CE2	2.43	0.54
20:S1:156:THR:HG22	20:S1:514:ARG:HD2	1.88	0.54
21:T2:212:TRP:HA	21:T2:222:LEU:HD23	1.90	0.54
23:V1:186:ARG:HA	23:V1:190:PHE:HB2	1.90	0.54
25:X1:815:GLU:N	26:Y1:1402:LEU:HD22	2.19	0.54
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:HG13	1.67	0.54
26:Y2:1449:ILE:CG2	26:Y2:1449:ILE:O	2.56	0.54
27:Z1:535:PHE:HD2	27:Z2:544:THR:HG23	1.73	0.54
27:Z2:252:GLN:NE2	27:Z2:335:MET:CG	2.56	0.54
27:Z2:374:TYR:CD1	27:Z2:383:GLN:HG2	2.42	0.54
6:F1:161:ALA:HB1	9:I1:1333:THR:C	2.23	0.54
6:F1:1806:ARG:O	14:N2:412:ASN:HB2	2.07	0.54
6:F2:139:GLN:HB3	9:I2:1395:LEU:HD12	1.89	0.54
6:F2:1049:GLN:HE21	9:I2:1388:GLU:N	2.06	0.54
9:I1:977:ASN:ND2	15:O1:177:HIS:N	2.55	0.54
9:I1:1049:LEU:HB2	15:O1:170:LEU:O	2.08	0.54
9:I1:1284:GLU:OE1	9:I1:1284:GLU:N	2.38	0.54
9:I2:894:VAL:CG1	13:M3:587:GLU:HG2	2.37	0.54
17:Q1:108:TRP:CE2	17:Q1:110:ILE:HD13	2.42	0.54
17:Q1:365:THR:HG21	17:Q1:433:LEU:HD21	1.90	0.54
17:Q1:784:ASN:O	17:Q1:788:TRP:HD1	1.91	0.54
17:Q1:805:ALA:HB1	17:Q1:815:VAL:HG11	1.90	0.54
17:Q1:1122:THR:CG2	17:Q1:1123:LEU:HD12	2.38	0.54
17:Q2:103:LYS:HA	17:Q2:103:LYS:CE	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:108:TRP:CE2	17:Q2:110:ILE:HD13	2.42	0.54
17:Q2:291:ILE:CD1	17:Q2:311:ASN:HD22	2.20	0.54
17:Q2:716:ASN:O	17:Q2:720:GLN:HB2	2.08	0.54
17:Q2:784:ASN:O	17:Q2:788:TRP:HD1	1.91	0.54
17:Q2:811:LEU:CD1	17:Q2:814:LEU:HD21	2.38	0.54
18:R1:618:GLU:O	18:R1:621:GLN:HG2	2.08	0.54
20:S1:525:ASP:HA	20:S1:528:LEU:HD12	1.90	0.54
21:T1:9:ASN:OD1	21:T1:12:ILE:HD11	2.08	0.54
21:T1:49:LEU:HB3	21:T1:82:TRP:CZ3	2.42	0.54
22:U1:212:LYS:NZ	25:X1:768:GLU:HA	2.22	0.54
25:X1:789:GLU:CD	25:X1:793:LEU:HD13	2.23	0.54
25:X2:685:MET:HE3	27:Z2:13:PHE:CE2	2.39	0.54
27:Z1:192:LEU:CD1	27:Z1:226:ILE:HD13	2.32	0.54
27:Z1:428:TYR:CZ	27:Z1:435:SER:CB	2.71	0.54
27:Z2:241:THR:CA	27:Z2:246:LYS:HE2	2.32	0.54
27:Z2:625:HIS:CD2	27:Z2:628:MET:CB	2.87	0.54
1:A2:777:LEU:HD13	1:A2:822:ILE:HD11	1.90	0.54
6:F1:1165:VAL:HG12	6:F1:1166:GLY:N	2.23	0.54
6:F1:1263:MET:O	6:F1:1267:ARG:N	2.41	0.54
9:I1:754:ARG:N	13:M1:556:MET:HE2	2.12	0.54
9:I1:1048:GLU:OE2	15:O1:167:ASN:C	2.14	0.54
9:I2:460:GLN:OE1	9:I2:460:GLN:N	2.39	0.54
9:I2:810:GLU:N	15:O3:244:GLU:C	2.58	0.54
9:I2:1025:LEU:O	13:M3:613:ASP:HB3	2.00	0.54
9:I2:1048:GLU:HG2	14:N3:289:PHE:CG	2.43	0.54
17:Q1:512:ILE:HG22	17:Q1:514:PHE:H	1.73	0.54
17:Q1:590:LYS:HE2	17:Q1:712:PHE:CZ	2.43	0.54
17:Q1:669:VAL:HG23	17:Q1:670:THR:N	2.22	0.54
17:Q1:716:ASN:O	17:Q1:720:GLN:HB2	2.08	0.54
17:Q1:801:CYS:SG	17:Q1:814:LEU:HD13	2.47	0.54
17:Q1:811:LEU:CD1	17:Q1:814:LEU:HD21	2.38	0.54
17:Q1:843:PHE:CE1	17:Q1:875:PHE:CZ	2.94	0.54
17:Q1:987:LEU:HD12	17:Q1:1008:MET:CE	2.37	0.54
17:Q2:423:ALA:HB3	17:Q2:446:ILE:HD11	1.89	0.54
17:Q2:584:LYS:HD2	17:Q2:586:ASP:HB2	1.89	0.54
17:Q2:680:GLY:HA2	17:Q2:683:GLU:HB3	1.89	0.54
17:Q2:681:ILE:HG21	17:Q2:750:TYR:HE1	1.72	0.54
17:Q2:865:PRO:O	17:Q2:869:ASP:HB3	2.07	0.54
17:Q2:922:LEU:CD2	19:R2:688:LEU:HD22	2.37	0.54
17:Q2:971:ILE:HG22	17:Q2:975:PHE:HB2	1.90	0.54
18:R1:682:LYS:HG2	18:R1:683:PHE:N	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:714:TYR:O	18:R1:717:LEU:HB2	2.07	0.54
22:U1:297:LEU:CA	27:Z1:653:GLN:C	2.75	0.54
24:W1:102:MET:HB3	24:W1:107:THR:HG21	1.89	0.54
25:X2:762:LEU:HD11	26:Y2:1352:VAL:HG13	1.88	0.54
26:Y1:1409:LEU:C	27:Z1:711:LYS:CE	2.68	0.54
27:Z1:209:TYR:CE2	27:Z1:335:MET:HA	2.41	0.54
27:Z1:281:VAL:O	27:Z1:281:VAL:CG2	2.55	0.54
27:Z1:300:THR:O	27:Z1:301:ASN:CG	2.43	0.54
27:Z2:679:GLU:O	27:Z2:683:LEU:HG	2.07	0.54
6:F2:1491:ARG:NE	7:G2:282:ASN:OD1	2.41	0.54
7:G2:250:THR:O	15:O4:252:VAL:O	2.25	0.54
9:I1:94:GLU:N	9:I1:94:GLU:OE1	2.38	0.54
9:I1:460:GLN:OE1	9:I1:460:GLN:N	2.39	0.54
9:I1:717:GLU:N	9:I1:717:GLU:OE1	2.39	0.54
9:I1:1048:GLU:CG	15:O1:170:LEU:HB2	2.38	0.54
9:I2:964:SER:HA	16:P3:149:ARG:N	1.98	0.54
9:I2:1026:TYR:CZ	13:M3:608:LYS:C	2.79	0.54
17:Q1:279:GLY:O	17:Q1:299:ALA:HA	2.08	0.54
17:Q1:291:ILE:HD13	17:Q1:311:ASN:CB	2.36	0.54
17:Q1:527:ILE:CD1	17:Q1:530:ASP:HB3	2.37	0.54
17:Q1:552:THR:HA	17:Q1:556:HIS:CG	2.42	0.54
17:Q1:853:LYS:O	17:Q1:853:LYS:HG3	2.07	0.54
17:Q1:922:LEU:CD1	18:R1:688:LEU:O	2.56	0.54
17:Q2:275:ILE:HD12	17:Q2:275:ILE:N	2.23	0.54
17:Q2:1002:LEU:HD23	17:Q2:1021:LEU:HD13	1.88	0.54
17:Q2:1122:THR:CG2	17:Q2:1123:LEU:HD12	2.38	0.54
18:R1:350:VAL:HG22	18:R1:355:LEU:HD22	1.89	0.54
19:R2:658:LEU:O	19:R2:662:PHE:HD1	1.90	0.54
21:T2:95:HIS:CE1	21:T2:97:VAL:HG22	2.42	0.54
24:W2:125:ASP:OD1	24:W2:127:SER:OG	2.17	0.54
25:X1:790:ASN:ND2	27:Z1:680:TRP:CZ2	2.75	0.54
26:Y1:1449:ILE:CG2	26:Y1:1449:ILE:O	2.56	0.54
26:Y2:1236:ASP:C	26:Y2:1239:PHE:CD2	2.80	0.54
27:Z1:112:PHE:CE1	27:Z1:156:ILE:HA	2.43	0.54
27:Z1:129:LYS:CD	27:Z1:145:LEU:CD2	2.72	0.54
27:Z1:417:ILE:O	27:Z1:448:GLN:NE2	2.39	0.54
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:CG	2.21	0.54
1:A2:1228:TYR:HH	1:A1:642:ARG:CB	1.83	0.54
1:A3:1332:ARG:NH1	4:D3:902:SER:HB2	2.23	0.54
1:A4:777:LEU:HD13	1:A4:822:ILE:HD11	1.89	0.54
6:F2:143:GLY:N	9:I2:1395:LEU:HD21	1.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:252:LEU:N	15:O4:251:ILE:CG2	2.47	0.54
9:I1:1116:ASP:OD1	10:J1:241:THR:CG2	2.56	0.54
9:I2:917:TYR:OH	15:O3:191:ARG:HG2	2.08	0.54
9:I2:925:LEU:HG	15:O3:186:PHE:CD2	2.42	0.54
9:I2:1307:LEU:N	14:N3:414:ALA:O	2.41	0.54
17:Q1:382:ARG:CA	17:Q1:512:ILE:CG1	2.83	0.54
17:Q1:423:ALA:HB3	17:Q1:446:ILE:HD11	1.89	0.54
17:Q1:903:LEU:CB	17:Q1:927:ALA:HB2	2.38	0.54
17:Q1:924:LEU:HD11	17:Q1:947:ILE:HG13	1.90	0.54
17:Q2:527:ILE:CD1	17:Q2:530:ASP:HB3	2.37	0.54
17:Q2:1043:ARG:O	17:Q2:1046:VAL:HG22	2.07	0.54
18:R1:550:MET:CB	18:R1:587:TYR:HE2	2.21	0.54
19:R2:575:GLU:HA	19:R2:575:GLU:OE1	2.08	0.54
21:T2:9:ASN:OD1	21:T2:12:ILE:HD11	2.08	0.54
22:U2:324:ASP:HB3	23:V2:64:LYS:HB3	1.90	0.54
23:V1:328:LEU:O	23:V1:332:ILE:HG13	2.08	0.54
23:V2:280:VAL:HG21	23:V2:321:ALA:HB3	1.89	0.54
24:W1:527:SER:CA	24:W1:739:PHE:O	2.56	0.54
25:X1:655:PHE:HZ	27:Z1:545:LEU:C	2.11	0.54
25:X1:811:SER:OG	27:Z1:701:LEU:CD2	2.56	0.54
26:Y2:1277:LYS:HE3	27:Z2:571:ILE:HG13	1.81	0.54
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:HZ1	1.66	0.54
26:Y2:1450:GLY:HA2	27:Z2:328:PHE:CZ	2.42	0.54
27:Z1:145:LEU:HD21	27:Z1:182:ILE:HG21	1.87	0.54
27:Z1:166:LEU:HD13	27:Z1:208:PHE:CZ	2.42	0.54
27:Z2:437:LEU:HD13	27:Z2:448:GLN:NE2	2.12	0.54
1:A2:1221:ILE:HG13	1:A1:600:LYS:HG3	1.88	0.54
1:A2:1277:TRP:HD1	1:A1:642:ARG:NH1	2.03	0.54
1:A2:1331:GLU:CB	4:D1:902:SER:HB2	2.38	0.54
6:F1:1267:ARG:NH1	15:O2:254:ARG:HG3	2.23	0.54
9:I1:900:ARG:N	13:M1:580:LYS:H	2.05	0.54
9:I1:909:ARG:HA	13:M1:548:LEU:CD2	2.33	0.54
9:I1:1048:GLU:HA	15:O1:171:ASP:N	1.86	0.54
9:I2:810:GLU:N	15:O3:244:GLU:CA	2.71	0.54
9:I2:1305:LEU:CG	15:O3:263:GLN:CD	2.62	0.54
14:N3:264:ARG:CG	14:N4:334:LEU:HD22	2.25	0.54
17:Q1:621:TYR:OH	17:Q1:624:THR:HG23	2.08	0.54
17:Q1:623:LEU:HD12	17:Q1:623:LEU:N	2.23	0.54
17:Q1:650:LEU:HD11	17:Q1:666:LYS:HA	1.90	0.54
17:Q2:242:LEU:CD2	17:Q2:242:LEU:H	2.18	0.54
17:Q2:550:LEU:HD13	17:Q2:550:LEU:C	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:584:LYS:HB3	17:Q2:586:ASP:CB	2.38	0.54
17:Q2:590:LYS:HE2	17:Q2:712:PHE:CZ	2.43	0.54
17:Q2:843:PHE:CE1	17:Q2:875:PHE:CZ	2.94	0.54
17:Q2:903:LEU:CB	17:Q2:927:ALA:HB2	2.38	0.54
19:R2:514:VAL:HG13	19:R2:515:GLU:N	2.23	0.54
22:U1:128:LEU:HD23	22:U1:169:PHE:HB3	1.89	0.54
25:X1:747:THR:O	25:X1:751:LEU:HG	2.07	0.54
25:X1:791:ILE:CG2	27:Z1:666:GLU:O	2.56	0.54
25:X2:797:LEU:HD21	26:Y2:1384:LYS:HE2	1.90	0.54
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:OD1	2.02	0.54
26:Y2:1277:LYS:NZ	27:Z2:568:CYS:CA	2.69	0.54
26:Y2:1294:LYS:CB	27:Z2:588:TRP:CE2	2.91	0.54
27:Z1:12:ILE:HB	27:Z1:54:TYR:CG	2.43	0.54
27:Z1:135:LYS:HZ3	27:Z1:218:LEU:HD23	0.64	0.54
27:Z1:189:LYS:H	27:Z1:313:GLU:CD	2.10	0.54
27:Z2:26:ILE:HG21	27:Z2:440:MET:HG3	1.90	0.54
27:Z2:73:SER:O	27:Z2:73:SER:OG	2.18	0.54
27:Z2:217:LEU:HA	27:Z2:269:LYS:CG	2.34	0.54
27:Z2:289:PRO:HD2	27:Z2:350:LEU:HB2	1.87	0.54
27:Z2:417:ILE:CG2	27:Z2:448:GLN:NE2	2.71	0.54
6:F1:158:PRO:CB	9:I1:1339:LEU:H	2.21	0.53
9:I1:1046:HIS:NE2	15:O1:168:ALA:HA	2.21	0.53
9:I2:890:TYR:C	13:M3:587:GLU:OE2	2.36	0.53
9:I2:1108:PRO:CB	15:O3:278:GLU:O	2.56	0.53
17:Q1:334:TRP:CE3	17:Q1:397:PRO:HD2	2.43	0.53
17:Q1:500:GLN:HA	17:Q1:503:TYR:HD2	1.72	0.53
17:Q1:902:THR:HG23	17:Q1:903:LEU:HD22	1.90	0.53
17:Q1:1116:GLU:O	17:Q1:1120:VAL:HG23	2.08	0.53
17:Q2:433:LEU:HD12	17:Q2:433:LEU:N	2.24	0.53
17:Q2:552:THR:HA	17:Q2:556:HIS:CG	2.42	0.53
17:Q2:704:SER:N	17:Q2:707:PRO:HD2	2.23	0.53
17:Q2:790:HIS:CG	17:Q2:814:LEU:HB2	2.43	0.53
17:Q2:922:LEU:HD11	19:R2:688:LEU:HB3	1.89	0.53
18:R1:465:ILE:HD11	18:R1:470:LEU:O	2.08	0.53
19:R2:254:ALA:O	20:S2:315:LYS:NZ	2.40	0.53
22:U1:208:LEU:CD1	27:Z1:660:SER:HB2	1.89	0.53
24:W2:91:LYS:NZ	24:W2:142:ALA:O	2.30	0.53
25:X1:789:GLU:OE2	27:Z1:684:ARG:CD	2.56	0.53
25:X2:692:LYS:HD3	27:Z2:10:LEU:CB	2.35	0.53
25:X2:811:SER:OG	27:Z2:701:LEU:CD2	2.56	0.53
26:Y1:1277:LYS:HD2	27:Z1:567:THR:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1399:ILE:CD1	27:Z1:697:CYS:HB3	2.38	0.53
27:Z1:7:LEU:N	27:Z1:7:LEU:C	2.54	0.53
27:Z1:208:PHE:CE1	27:Z1:211:PHE:HA	2.43	0.53
27:Z1:216:LEU:CD1	27:Z1:272:ILE:CG1	2.84	0.53
27:Z2:281:VAL:O	27:Z2:281:VAL:CG2	2.55	0.53
27:Z2:679:GLU:N	27:Z2:679:GLU:C	2.59	0.53
1:A2:1200:ARG:C	1:A1:595:GLU:CB	2.76	0.53
6:F2:1336:GLU:OE1	6:F2:1336:GLU:N	2.36	0.53
9:I1:910:LYS:N	13:M1:548:LEU:CD2	2.51	0.53
9:I1:1246:ILE:HG13	15:O1:255:GLY:H	1.73	0.53
9:I1:1316:ALA:HA	15:O1:269:ILE:CG1	2.39	0.53
9:I2:902:GLN:HB2	13:M3:580:LYS:HB3	1.74	0.53
9:I2:976:ARG:NE	14:N3:293:LYS:O	2.41	0.53
9:I2:976:ARG:HD3	14:N3:297:ALA:H	1.72	0.53
9:I2:1305:LEU:CB	15:O3:263:GLN:CD	2.77	0.53
17:Q1:384:ASN:OD1	17:Q1:508:ASN:CA	2.44	0.53
17:Q1:786:LEU:HD12	17:Q1:811:LEU:CD1	2.34	0.53
17:Q1:790:HIS:CG	17:Q1:814:LEU:HB2	2.43	0.53
17:Q2:333:ILE:HD11	17:Q2:349:SER:HB2	1.90	0.53
17:Q2:552:THR:O	17:Q2:556:HIS:HB2	2.07	0.53
17:Q2:623:LEU:HD12	17:Q2:623:LEU:N	2.24	0.53
17:Q2:644:VAL:HG13	17:Q2:645:ILE:N	2.21	0.53
17:Q2:700:GLU:HG2	17:Q2:758:ILE:HG12	1.84	0.53
17:Q2:805:ALA:HB1	17:Q2:815:VAL:HG11	1.90	0.53
17:Q2:867:GLN:HG3	17:Q2:869:ASP:N	2.09	0.53
17:Q2:870:VAL:HA	17:Q2:873:GLN:CG	2.38	0.53
17:Q2:957:GLU:O	17:Q2:960:ILE:HG22	2.08	0.53
17:Q2:960:ILE:HG23	17:Q2:961:SER:N	2.23	0.53
17:Q2:963:LYS:HB3	17:Q2:969:VAL:HG23	1.90	0.53
18:R1:528:HIS:HD2	18:R1:580:PHE:HB2	1.73	0.53
18:R1:648:ASP:O	18:R1:651:ILE:HG12	2.08	0.53
25:X2:655:PHE:CE2	27:Z2:549:ILE:HD12	2.43	0.53
26:Y1:1403:ARG:HE	27:Z1:704:VAL:CG2	2.20	0.53
27:Z1:119:GLU:CB	27:Z1:120:GLU:HB3	2.34	0.53
27:Z1:537:GLN:O	27:Z2:552:ARG:CG	2.55	0.53
27:Z2:26:ILE:CD1	27:Z2:37:PHE:CE1	2.91	0.53
27:Z2:307:ILE:CG2	27:Z2:390:ALA:HB1	2.36	0.53
27:Z2:328:PHE:HE1	27:Z2:330:ASP:HB2	1.71	0.53
27:Z2:595:GLN:O	27:Z2:599:MET:HG3	2.08	0.53
1:A2:1221:ILE:N	1:A1:596:ARG:HG2	2.23	0.53
1:A3:785:ILE:HD11	1:A3:825:ARG:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:267:GLU:CD	11:K1:638:PRO:CD	2.75	0.53
9:I2:885:GLU:O	13:M3:594:LYS:CG	2.57	0.53
9:I2:1026:TYR:CE1	13:M3:609:GLY:C	2.81	0.53
17:Q1:825:ASP:HA	17:Q1:828:THR:OG1	2.08	0.53
17:Q2:246:LYS:HD3	17:Q2:247:LEU:C	2.29	0.53
17:Q2:288:ASN:C	17:Q2:333:ILE:HG22	2.28	0.53
17:Q2:1016:PHE:HE1	17:Q2:1065:VAL:HG13	1.72	0.53
18:R1:530:ILE:CD1	18:R1:553:ASN:HB2	2.38	0.53
20:S1:548:TYR:HB2	21:T1:64:PRO:HB3	1.90	0.53
23:V1:227:VAL:C	23:V1:229:SER:H	2.12	0.53
25:X2:679:LEU:O	26:Y2:1281:MET:CE	2.53	0.53
25:X2:823:LYS:HG2	27:Z1:270:VAL:HG12	0.76	0.53
26:Y1:1429:LYS:NZ	26:Y2:1429:LYS:NZ	2.56	0.53
26:Y1:1452:PHE:CE2	27:Z1:402:LEU:CD1	2.87	0.53
26:Y2:1124:THR:HB	26:Y2:1126:LEU:HD21	1.91	0.53
26:Y2:1367:LYS:C	26:Y2:1383:ALA:CB	2.76	0.53
27:Z1:202:GLY:O	27:Z1:298:THR:HG23	2.08	0.53
27:Z2:230:SER:C	27:Z2:253:LEU:CD2	2.64	0.53
27:Z2:326:LEU:CB	27:Z2:352:GLU:CG	2.84	0.53
27:Z2:448:GLN:CB	27:Z2:573:LYS:HZ1	2.19	0.53
1:A2:1226:LEU:H	1:A1:643:ALA:C	2.11	0.53
1:A2:1332:ARG:HG2	4:D1:905:SER:CB	2.39	0.53
1:A2:1333:ARG:CD	4:D1:906:ARG:HD2	2.04	0.53
7:G1:253:SER:N	13:M2:595:MET:CE	2.62	0.53
9:I1:908:ARG:CD	13:M1:552:TYR:HA	2.27	0.53
17:Q1:451:ASN:N	17:Q1:548:PRO:HB3	2.23	0.53
17:Q1:455:ILE:HD12	17:Q1:467:VAL:CG2	2.39	0.53
17:Q1:671:ASN:OD1	17:Q1:743:LEU:HD12	2.08	0.53
17:Q1:673:ILE:HG12	17:Q1:677:PHE:CE2	2.43	0.53
17:Q1:697:ASP:CB	17:Q1:698:PRO:HD3	2.39	0.53
17:Q1:704:SER:N	17:Q1:707:PRO:HD2	2.23	0.53
17:Q1:915:GLU:HG3	17:Q1:919:GLU:CB	2.38	0.53
17:Q1:962:ASN:HA	17:Q1:965:LYS:HE2	1.90	0.53
17:Q2:509:ALA:HB1	17:Q2:573:LYS:NZ	2.22	0.53
17:Q2:589:GLU:HG2	17:Q2:688:THR:HG23	1.91	0.53
17:Q2:673:ILE:HG12	17:Q2:677:PHE:CE2	2.43	0.53
17:Q2:697:ASP:CB	17:Q2:698:PRO:HD3	2.39	0.53
17:Q2:874:PHE:CE1	19:R2:726:ASN:OD1	2.55	0.53
17:Q2:874:PHE:HE1	19:R2:726:ASN:ND2	1.97	0.53
17:Q2:924:LEU:HD11	17:Q2:947:ILE:HG13	1.90	0.53
17:Q2:962:ASN:HA	17:Q2:965:LYS:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1116:GLU:O	17:Q2:1120:VAL:HG23	2.08	0.53
18:R1:222:VAL:HG12	20:S1:256:VAL:HA	1.91	0.53
18:R1:482:ARG:CB	18:R1:516:TRP:CE2	2.86	0.53
19:R2:648:ASP:O	19:R2:651:ILE:HG12	2.09	0.53
22:U1:241:ARG:HH12	27:Z1:659:LYS:HZ3	0.59	0.53
22:U1:291:ASN:CA	25:X1:802:ASP:OD1	2.56	0.53
24:W1:534:ASP:OD2	24:W1:746:CYS:O	2.26	0.53
25:X1:775:THR:O	25:X1:778:LYS:N	2.41	0.53
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:HG	1.67	0.53
26:Y1:1450:GLY:O	26:Y1:1454:LYS:HG3	2.09	0.53
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:HD23	1.91	0.53
26:Y2:1321:MET:CG	27:Z1:47:ASN:O	2.53	0.53
27:Z1:679:GLU:OE1	27:Z2:654:ASP:OD2	2.16	0.53
27:Z2:186:GLU:HG3	27:Z2:303:ALA:HA	1.89	0.53
27:Z2:189:LYS:H	27:Z2:313:GLU:CD	2.11	0.53
27:Z2:418:ALA:HB2	27:Z2:573:LYS:HE3	1.91	0.53
1:A3:1088:ASN:CG	4:D3:1095:ARG:NH2	2.56	0.53
1:A3:1223:GLU:HB3	1:A4:648:TYR:HE2	1.10	0.53
6:F1:158:PRO:HG2	9:I1:1338:PHE:C	2.23	0.53
6:F1:166:THR:CG2	9:I1:1330:PHE:CE1	2.90	0.53
6:F1:179:GLU:OE2	9:I1:1207:PRO:HB3	2.08	0.53
6:F1:540:GLU:N	6:F1:540:GLU:OE1	2.37	0.53
6:F1:1066:ALA:HB3	6:F1:1067:PRO:HD3	1.91	0.53
9:I2:813:ILE:HG23	15:O3:241:SER:CB	2.29	0.53
9:I2:903:GLY:CA	13:M3:577:LEU:O	2.57	0.53
9:I2:909:ARG:H	13:M3:580:LYS:HZ3	1.57	0.53
9:I2:963:LEU:CG	16:P3:152:LYS:N	2.60	0.53
17:Q1:140:LEU:HD23	17:Q1:140:LEU:C	2.29	0.53
17:Q1:142:PHE:CG	17:Q1:143:PRO:HD2	2.42	0.53
17:Q1:164:LEU:CD2	17:Q1:178:ILE:HD13	2.39	0.53
17:Q1:316:ILE:CG1	17:Q1:331:LEU:HD21	2.38	0.53
17:Q1:429:VAL:HG12	17:Q1:430:ASN:N	2.22	0.53
17:Q1:831:LEU:HD12	17:Q1:835:PHE:HB3	1.91	0.53
17:Q1:870:VAL:HA	17:Q1:873:GLN:CG	2.38	0.53
17:Q1:957:GLU:O	17:Q1:960:ILE:HG22	2.08	0.53
17:Q2:334:TRP:CE3	17:Q2:397:PRO:HD2	2.43	0.53
17:Q2:670:THR:HG21	17:Q2:744:LYS:NZ	2.23	0.53
18:R1:453:GLU:HG3	18:R1:454:ASP:N	2.18	0.53
18:R1:534:SER:O	18:R1:546:LEU:HD21	2.09	0.53
18:R1:661:PRO:HA	18:R1:705:PHE:CE2	2.43	0.53
19:R2:350:VAL:HG22	19:R2:355:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:631:ILE:HD13	19:R2:631:ILE:C	2.29	0.53
19:R2:711:LEU:HA	19:R2:714:TYR:HD2	1.66	0.53
20:S1:186:PHE:HD1	20:S1:487:LEU:HD11	1.74	0.53
22:U1:209:PRO:CG	27:Z1:662:LEU:H	2.21	0.53
22:U1:289:GLN:CB	25:X1:794:ILE:HG23	2.37	0.53
24:W1:232:ARG:NE	24:W1:249:THR:OG1	2.39	0.53
25:X2:778:LYS:CG	25:X2:794:ILE:HG12	2.39	0.53
27:Z1:105:ILE:O	27:Z1:108:ALA:HB3	2.08	0.53
27:Z1:429:ILE:HG21	27:Z1:431:TRP:CE2	2.37	0.53
27:Z2:186:GLU:CG	27:Z2:302:ILE:O	2.57	0.53
27:Z2:208:PHE:CE1	27:Z2:211:PHE:HA	2.44	0.53
27:Z2:359:GLU:CB	27:Z2:361:LYS:CE	2.85	0.53
27:Z2:642:ASN:CA	27:Z2:642:ASN:C	2.76	0.53
1:A3:1271:ILE:HG12	1:A4:730:THR:CG2	2.28	0.53
1:A4:1048:ARG:CZ	4:D4:1095:ARG:NH1	2.57	0.53
6:F1:1205:TRP:NE1	15:O2:241:SER:HA	2.24	0.53
6:F1:1491:ARG:NE	7:G1:282:ASN:OD1	2.41	0.53
9:I2:77:GLU:N	9:I2:77:GLU:OE1	2.38	0.53
17:Q1:960:ILE:HG23	17:Q1:961:SER:N	2.23	0.53
17:Q1:1016:PHE:CE2	17:Q1:1020:ARG:HG3	2.43	0.53
17:Q2:142:PHE:CG	17:Q2:143:PRO:HD2	2.42	0.53
17:Q2:279:GLY:O	17:Q2:299:ALA:HA	2.08	0.53
17:Q2:316:ILE:CG1	17:Q2:331:LEU:HD21	2.38	0.53
17:Q2:455:ILE:HD12	17:Q2:467:VAL:CG2	2.38	0.53
17:Q2:671:ASN:OD1	17:Q2:743:LEU:HD12	2.08	0.53
17:Q2:827:THR:HG23	17:Q2:830:SER:CB	2.39	0.53
17:Q2:827:THR:O	17:Q2:830:SER:HB2	2.09	0.53
17:Q2:847:LEU:HA	17:Q2:876:GLN:HE22	1.74	0.53
17:Q2:989:GLU:OE1	17:Q2:992:LYS:HD2	2.08	0.53
18:R1:341:HIS:CE1	18:R1:343:ILE:HD12	2.43	0.53
19:R2:222:VAL:HG12	20:S2:256:VAL:HA	1.90	0.53
19:R2:688:LEU:HD11	19:R2:721:THR:HG23	1.90	0.53
19:R2:714:TYR:O	19:R2:717:LEU:HB2	2.07	0.53
24:W1:400:LYS:NZ	24:W1:716:GLU:CB	2.39	0.53
24:W1:406:ARG:HD3	24:W1:720:PHE:CA	2.38	0.53
24:W2:102:MET:HB3	24:W2:107:THR:HG21	1.90	0.53
25:X1:744:ALA:CB	27:Z1:631:PHE:HE1	2.20	0.53
25:X2:694:ASP:CA	27:Z2:431:TRP:C	2.76	0.53
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:HD23	1.91	0.53
26:Y1:1294:LYS:CB	27:Z1:588:TRP:CE2	2.91	0.53
26:Y2:1321:MET:CA	27:Z1:51:ASP:CA	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:212:LEU:HB3	27:Z1:216:LEU:HD21	1.91	0.53
27:Z1:213:PRO:O	27:Z1:216:LEU:CD2	2.57	0.53
27:Z1:544:THR:OG1	27:Z2:558:PHE:CB	2.56	0.53
27:Z2:74:SER:OG	27:Z2:139:ASP:OD1	2.26	0.53
27:Z2:94:PRO:HG2	27:Z2:94:PRO:O	2.09	0.53
27:Z2:166:LEU:HD13	27:Z2:208:PHE:CZ	2.42	0.53
27:Z2:294:LEU:CD1	27:Z2:325:ILE:CD1	2.84	0.53
1:A3:1087:GLY:HA3	4:D3:1095:ARG:HG2	1.90	0.53
9:I1:1254:VAL:CG2	15:O1:259:ASP:HA	2.39	0.53
9:I2:1302:ARG:CD	15:O3:263:GLN:HG3	2.39	0.53
13:M4:494:GLU:OE2	13:M4:497:ARG:NH2	2.42	0.53
17:Q1:94:ILE:O	17:Q1:96:TYR:HD1	1.92	0.53
17:Q1:557:LEU:CD1	17:Q1:632:LYS:HD2	2.38	0.53
17:Q1:971:ILE:HG22	17:Q1:975:PHE:HB2	1.90	0.53
17:Q1:1065:VAL:CB	17:Q1:1070:LEU:HD23	2.39	0.53
18:R1:479:THR:HB	18:R1:483:VAL:CG2	2.38	0.53
19:R2:341:HIS:CE1	19:R2:343:ILE:HD12	2.43	0.53
19:R2:550:MET:HB3	19:R2:587:TYR:CE2	2.43	0.53
19:R2:590:LEU:HD13	19:R2:590:LEU:C	2.29	0.53
19:R2:604:VAL:HG13	19:R2:605:SER:N	2.23	0.53
21:T2:178:ALA:HB1	21:T2:206:TRP:CE2	2.44	0.53
25:X1:788:ASP:C	25:X1:792:GLN:NE2	2.62	0.53
25:X2:642:THR:O	25:X2:646:ASN:OD1	2.26	0.53
25:X2:688:HIS:CD2	27:Z2:446:THR:O	2.62	0.53
27:Z1:125:SER:HB2	27:Z1:147:GLU:CD	2.28	0.53
27:Z1:356:LEU:HB3	27:Z1:358:ARG:NH2	2.24	0.53
27:Z1:363:LEU:HD21	27:Z1:373:LEU:HD11	1.90	0.53
27:Z2:158:ASN:HB2	27:Z2:161:GLU:HG3	1.89	0.53
27:Z2:356:LEU:HB3	27:Z2:358:ARG:NH2	2.24	0.53
27:Z2:368:GLU:OE1	27:Z2:428:TYR:CD2	2.62	0.53
27:Z2:383:GLN:CD	27:Z2:417:ILE:CG1	2.75	0.53
1:A2:1225:PRO:CG	1:A1:640:LEU:HD22	2.28	0.53
1:A4:1017:THR:HG21	1:A4:1048:ARG:HH11	1.74	0.53
6:F1:141:ALA:HA	9:I1:1390:PHE:CE2	2.42	0.53
9:I1:8:GLU:N	9:I1:8:GLU:OE1	2.39	0.53
9:I1:1360:GLU:C	15:O1:266:GLN:NE2	2.42	0.53
9:I2:917:TYR:CZ	15:O3:191:ARG:N	2.76	0.53
9:I2:1034:ASP:HA	15:O3:284:LYS:HG2	1.91	0.53
9:I2:1099:ARG:NH1	13:M3:609:GLY:H	2.06	0.53
17:Q1:711:ASN:CA	17:Q1:715:LEU:HD13	2.28	0.53
17:Q1:989:GLU:OE1	17:Q1:992:LYS:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:557:LEU:HD12	17:Q2:632:LYS:CE	2.39	0.53
17:Q2:621:TYR:OH	17:Q2:624:THR:HG23	2.08	0.53
17:Q2:915:GLU:HG3	17:Q2:919:GLU:CB	2.38	0.53
17:Q2:1063:LYS:HD2	17:Q2:1067:ASP:OD2	2.09	0.53
18:R1:462:ILE:HG23	18:R1:463:GLU:N	2.24	0.53
18:R1:514:VAL:HG13	18:R1:515:GLU:N	2.23	0.53
18:R1:590:LEU:HD13	18:R1:590:LEU:C	2.29	0.53
18:R1:604:VAL:HG13	18:R1:605:SER:N	2.23	0.53
20:S1:178:THR:HG21	20:S1:485:ALA:HB2	1.91	0.53
21:T2:275:ASP:OD1	21:T2:275:ASP:N	2.41	0.53
25:X1:690:GLN:CG	27:Z1:581:PHE:CZ	2.91	0.53
25:X1:711:LEU:CD1	26:Y1:1309:ASP:OD2	2.57	0.53
25:X2:694:ASP:O	27:Z2:432:ASN:HA	2.03	0.53
25:X2:747:THR:O	25:X2:751:LEU:HG	2.08	0.53
26:Y1:1435:LYS:HE2	27:Z1:225:LEU:HD23	1.81	0.53
27:Z1:287:ILE:HD12	27:Z1:327:LEU:HD13	1.90	0.53
27:Z1:326:LEU:HD23	27:Z1:410:PHE:CZ	2.42	0.53
27:Z1:595:GLN:O	27:Z1:599:MET:HG3	2.08	0.53
27:Z2:112:PHE:CE1	27:Z2:156:ILE:HA	2.43	0.53
27:Z2:216:LEU:HG	27:Z2:272:ILE:HG13	1.91	0.53
27:Z2:263:TRP:CD1	27:Z2:270:VAL:HG21	2.43	0.53
27:Z2:417:ILE:CG2	27:Z2:417:ILE:O	2.57	0.53
1:A3:1017:THR:HG21	1:A3:1048:ARG:HH11	1.74	0.53
1:A3:1200:ARG:HB3	1:A4:591:ASP:OD2	2.07	0.53
1:A4:127:HIS:HE2	4:D3:1006:ASP:CA	2.15	0.53
1:A4:132:ASP:CG	4:D3:1002:ALA:HB3	2.27	0.53
6:F1:179:GLU:HG2	9:I1:1207:PRO:HD3	1.91	0.53
9:I1:903:GLY:CA	13:M1:575:TYR:HB2	2.32	0.53
9:I1:905:ALA:N	13:M1:573:ARG:CD	2.70	0.53
9:I2:465:GLU:N	9:I2:465:GLU:OE1	2.38	0.53
9:I2:1305:LEU:HD11	15:O3:260:LEU:HA	1.91	0.53
17:Q1:386:PHE:CZ	17:Q1:563:PHE:CD1	2.96	0.53
17:Q1:433:LEU:HD12	17:Q1:433:LEU:N	2.23	0.53
17:Q1:615:GLU:HB2	17:Q1:645:ILE:CG1	2.39	0.53
17:Q1:668:ASN:O	17:Q1:672:LEU:HD23	2.08	0.53
17:Q1:670:THR:HG21	17:Q1:744:LYS:NZ	2.23	0.53
17:Q1:802:ILE:HG23	17:Q1:803:GLN:N	2.24	0.53
17:Q1:960:ILE:HB	17:Q1:1006:TYR:OH	2.09	0.53
17:Q2:335:ASP:OD2	17:Q2:399:ILE:HG22	2.09	0.53
17:Q2:684:GLU:HA	17:Q2:688:THR:HB	1.90	0.53
17:Q2:802:ILE:HG23	17:Q2:803:GLN:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:858:ASN:ND2	19:R2:682:LYS:CE	2.72	0.53
17:Q2:934:VAL:HG22	17:Q2:935:GLU:N	2.24	0.53
18:R1:534:SER:CB	18:R1:546:LEU:HD22	2.39	0.53
19:R2:431:ILE:H	19:R2:431:ILE:HD12	1.74	0.53
19:R2:530:ILE:HG13	19:R2:549:PHE:CE2	2.42	0.53
22:U1:29:SER:C	22:U1:31:GLN:H	2.12	0.53
22:U1:241:ARG:CG	27:Z1:656:SER:CB	2.86	0.53
25:X1:655:PHE:CE2	27:Z1:549:ILE:HD12	2.44	0.53
25:X1:665:TRP:CE3	25:X1:669:LEU:CD1	2.89	0.53
25:X1:803:ALA:HB2	26:Y1:1372:LYS:CG	2.32	0.53
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD11	2.37	0.53
26:Y2:1333:ASP:C	27:Z1:92:GLU:HB2	2.28	0.53
26:Y2:1367:LYS:O	26:Y2:1371:VAL:CG2	2.37	0.53
27:Z1:213:PRO:HG2	27:Z1:213:PRO:O	2.08	0.53
27:Z1:287:ILE:HD12	27:Z1:327:LEU:CD1	2.39	0.53
27:Z1:537:GLN:C	27:Z2:552:ARG:CG	2.53	0.53
27:Z2:213:PRO:O	27:Z2:216:LEU:CD2	2.57	0.53
1:A2:785:ILE:HD11	1:A2:825:ARG:CG	2.38	0.53
1:A3:874:VAL:HG23	4:D1:515:ASN:ND2	2.23	0.53
1:A4:715:GLU:OE1	4:D3:973:GLN:NE2	2.41	0.53
4:D1:1006:ASP:CB	1:A1:172:PRO:CB	2.70	0.53
6:F1:835:ILE:O	6:F1:835:ILE:HG13	2.09	0.53
6:F2:835:ILE:O	6:F2:835:ILE:HG13	2.09	0.53
9:I1:910:LYS:HE3	13:M1:542:ASP:O	2.08	0.53
9:I1:1048:GLU:HG3	15:O1:170:LEU:HB2	1.90	0.53
9:I2:1099:ARG:HG3	15:O3:268:GLY:HA3	1.90	0.53
17:Q2:164:LEU:CD2	17:Q2:178:ILE:HD13	2.39	0.53
17:Q2:564:PHE:CE2	17:Q2:568:LEU:HD21	2.43	0.53
17:Q2:902:THR:HG23	17:Q2:903:LEU:HD22	1.90	0.53
18:R1:442:LEU:HD13	18:R1:442:LEU:C	2.29	0.53
18:R1:442:LEU:HD13	18:R1:442:LEU:O	2.09	0.53
18:R1:687:ALA:O	18:R1:690:PHE:HB3	2.09	0.53
19:R2:530:ILE:CD1	19:R2:553:ASN:HB2	2.38	0.53
20:S2:345:SER:HB3	20:S2:371:PHE:CE2	2.43	0.53
20:S2:520:ARG:NH2	20:S2:542:GLN:HE21	2.06	0.53
24:W1:400:LYS:HE3	24:W1:716:GLU:CB	2.36	0.53
24:W1:534:ASP:CG	24:W1:746:CYS:C	2.68	0.53
25:X2:692:LYS:HZ1	27:Z2:37:PHE:HZ	0.75	0.53
26:Y2:1320:LEU:CD1	27:Z1:49:LEU:O	2.53	0.53
26:Y2:1366:LEU:HA	26:Y2:1384:LYS:H	1.73	0.53
27:Z1:35:ILE:HG12	27:Z1:46:TYR:CZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:368:GLU:OE1	27:Z1:428:TYR:CD2	2.62	0.53
27:Z2:12:ILE:HB	27:Z2:54:TYR:CG	2.43	0.53
27:Z2:105:ILE:O	27:Z2:108:ALA:HB3	2.08	0.53
1:A1:827:ILE:CG1	1:A1:849:SER:N	2.71	0.53
9:I2:301:GLN:OE1	9:I2:301:GLN:N	2.42	0.52
9:I2:906:GLY:O	13:M3:573:ARG:NH1	2.43	0.52
9:I2:914:ASN:CB	15:O3:190:ARG:C	2.63	0.52
9:I2:1116:ASP:OD1	10:J2:241:THR:CG2	2.56	0.52
17:Q1:335:ASP:OD2	17:Q1:399:ILE:HG22	2.09	0.52
17:Q1:557:LEU:HD12	17:Q1:632:LYS:CE	2.39	0.52
17:Q1:847:LEU:HD21	17:Q1:875:PHE:CE2	2.45	0.52
17:Q1:964:LEU:HD13	17:Q1:988:VAL:HG23	1.91	0.52
17:Q1:1035:LYS:HE3	17:Q1:1083:LEU:CD1	2.39	0.52
17:Q2:140:LEU:HD23	17:Q2:140:LEU:C	2.29	0.52
17:Q2:426:ILE:HD12	17:Q2:443:TRP:CH2	2.42	0.52
17:Q2:584:LYS:CG	17:Q2:709:PHE:CZ	2.92	0.52
17:Q2:999:LEU:HD13	17:Q2:999:LEU:C	2.29	0.52
18:R1:676:LYS:NZ	18:R1:679:LYS:HA	2.24	0.52
20:S2:186:PHE:HD1	20:S2:487:LEU:HD11	1.74	0.52
23:V2:328:LEU:O	23:V2:332:ILE:HG13	2.08	0.52
24:W1:400:LYS:HE3	24:W1:716:GLU:HA	1.88	0.52
26:Y2:1332:LYS:CE	27:Z1:97:TYR:C	2.77	0.52
27:Z1:289:PRO:HD2	27:Z1:350:LEU:HB2	1.87	0.52
27:Z2:212:LEU:HB3	27:Z2:216:LEU:HD21	1.91	0.52
1:A4:624:ASP:HB3	4:D3:972:TRP:HE1	1.74	0.52
7:G1:253:SER:CB	13:M2:595:MET:CE	2.87	0.52
9:I2:916:ALA:CB	15:O3:192:HIS:HB3	2.39	0.52
9:I2:1256:TYR:O	15:O3:256:TYR:CD1	2.63	0.52
13:M2:494:GLU:OE2	13:M2:497:ARG:NH2	2.42	0.52
17:Q1:94:ILE:O	17:Q1:94:ILE:HG23	2.08	0.52
17:Q1:228:ILE:HD11	17:Q1:248:LEU:HB2	1.90	0.52
17:Q1:400:PHE:CD1	17:Q1:460:TYR:CD1	2.97	0.52
17:Q1:598:ILE:HD11	17:Q1:632:LYS:HG3	1.91	0.52
17:Q1:636:ILE:HG13	17:Q1:637:ASN:N	2.24	0.52
17:Q1:657:LEU:H	17:Q1:657:LEU:CD2	2.22	0.52
17:Q1:939:LEU:HD12	17:Q1:939:LEU:N	2.24	0.52
17:Q1:1002:LEU:HD23	17:Q1:1021:LEU:CD1	2.39	0.52
17:Q1:1125:SER:O	17:Q1:1126:ASP:HB2	2.09	0.52
17:Q2:571:VAL:HA	17:Q2:576:ASN:HD21	1.74	0.52
17:Q2:668:ASN:O	17:Q2:672:LEU:HD23	2.09	0.52
17:Q2:960:ILE:HB	17:Q2:1006:TYR:OH	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1002:LEU:HD23	17:Q2:1021:LEU:CD1	2.38	0.52
17:Q2:1065:VAL:CB	17:Q2:1070:LEU:HD23	2.39	0.52
18:R1:436:LEU:N	18:R1:451:SER:OG	2.42	0.52
19:R2:206:ILE:HG23	20:S2:336:LEU:HB3	1.91	0.52
19:R2:617:ILE:HG23	19:R2:618:GLU:N	2.24	0.52
20:S1:520:ARG:NH2	20:S1:542:GLN:HE21	2.06	0.52
20:S2:178:THR:HG21	20:S2:485:ALA:HB2	1.90	0.52
21:T1:212:TRP:HA	21:T1:222:LEU:HD23	1.90	0.52
21:T1:275:ASP:N	21:T1:275:ASP:OD1	2.42	0.52
25:X2:745:TYR:HB3	27:Z1:104:SER:HB2	1.88	0.52
25:X2:822:LYS:O	27:Z1:258:LYS:O	2.27	0.52
26:Y2:1317:TYR:CB	27:Z1:49:LEU:HD12	2.37	0.52
27:Z1:289:PRO:CD	27:Z1:350:LEU:CB	2.73	0.52
27:Z1:541:LYS:CD	27:Z2:550:HIS:O	2.56	0.52
27:Z1:544:THR:CA	27:Z2:558:PHE:HB2	2.38	0.52
27:Z2:152:THR:OG1	27:Z2:154:PHE:CE1	2.57	0.52
27:Z2:248:ASN:O	27:Z2:252:GLN:HG2	2.09	0.52
27:Z2:351:ILE:HD12	27:Z2:389:TRP:HH2	1.74	0.52
27:Z2:668:GLU:CB	27:Z2:668:GLU:O	2.27	0.52
1:A3:1070:ASP:O	9:I2:1238:LYS:CD	2.26	0.52
1:A4:790:ASP:OD1	1:A4:790:ASP:N	2.35	0.52
4:D1:1030:ALA:HB3	1:A1:633:MET:CE	2.39	0.52
6:F1:383:HIS:ND1	6:F1:471:GLN:OE1	2.42	0.52
6:F2:142:ALA:HB3	9:I2:1395:LEU:HD21	1.85	0.52
6:F2:795:GLU:N	6:F2:795:GLU:OE1	2.42	0.52
6:F2:1807:GLU:N	6:F2:1807:GLU:OE1	2.42	0.52
7:G1:254:ASN:HD22	14:N2:400:LEU:HD13	1.75	0.52
9:I1:1046:HIS:ND1	15:O1:167:ASN:ND2	2.57	0.52
9:I1:1320:LEU:N	15:O1:269:ILE:HD13	2.10	0.52
9:I2:1051:LYS:HG2	14:N3:289:PHE:HD1	1.70	0.52
9:I2:1095:TYR:CD1	15:O3:268:GLY:HA3	2.43	0.52
17:Q1:416:ILE:HD11	17:Q1:427:THR:CB	2.27	0.52
17:Q1:670:THR:O	17:Q1:743:LEU:HD11	2.09	0.52
17:Q1:827:THR:HG22	17:Q1:827:THR:O	2.09	0.52
17:Q1:827:THR:O	17:Q1:830:SER:HB2	2.09	0.52
17:Q1:963:LYS:HB3	17:Q1:969:VAL:HG23	1.90	0.52
17:Q1:999:LEU:HD13	17:Q1:999:LEU:C	2.29	0.52
17:Q1:1043:ARG:CG	17:Q1:1120:VAL:HG21	2.35	0.52
17:Q2:228:ILE:HD11	17:Q2:248:LEU:HB2	1.89	0.52
17:Q2:516:LEU:CB	17:Q2:517:PRO:HD3	2.37	0.52
17:Q2:939:LEU:HD12	17:Q2:939:LEU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1043:ARG:NE	17:Q2:1117:ILE:HD13	2.24	0.52
19:R2:668:HIS:CE1	19:R2:717:LEU:HB3	2.45	0.52
19:R2:687:ALA:O	19:R2:690:PHE:HB3	2.09	0.52
20:S1:520:ARG:HH21	20:S1:542:GLN:HE21	1.58	0.52
21:T1:178:ALA:HB1	21:T1:206:TRP:CE2	2.44	0.52
22:U1:289:GLN:CA	25:X1:798:ASN:CA	2.87	0.52
26:Y2:1335:SER:HB2	26:Y2:1339:PHE:CE1	2.29	0.52
27:Z1:317:VAL:O	27:Z1:324:LEU:CD1	2.54	0.52
27:Z2:120:GLU:O	27:Z2:124:LYS:HG3	2.07	0.52
1:A2:1017:THR:HG21	1:A2:1048:ARG:HH11	1.74	0.52
1:A2:1233:GLN:HE21	1:A1:640:LEU:HD12	1.56	0.52
1:A3:1221:ILE:H	1:A4:595:GLU:HB3	1.70	0.52
6:F1:1794:LYS:O	14:N2:429:GLU:OE1	2.27	0.52
6:F2:1165:VAL:HG12	6:F2:1166:GLY:N	2.23	0.52
7:G1:249:ASP:CA	15:O2:247:TRP:NE1	2.73	0.52
9:I2:976:ARG:CD	14:N3:297:ALA:N	2.73	0.52
9:I2:1049:LEU:CD2	14:N3:293:LYS:C	2.77	0.52
9:I2:1099:ARG:HA	15:O3:272:SER:N	2.24	0.52
9:I2:1305:LEU:CB	15:O3:264:ILE:CG1	2.82	0.52
10:J1:250:THR:CB	15:O1:277:GLU:CA	2.86	0.52
17:Q1:448:SER:OG	17:Q1:545:TYR:CE1	2.62	0.52
17:Q1:564:PHE:HZ	17:Q1:588:ILE:CD1	2.21	0.52
17:Q1:571:VAL:HA	17:Q1:576:ASN:HD21	1.73	0.52
17:Q1:601:ASN:O	17:Q1:602:SER:HB2	2.10	0.52
17:Q1:605:ARG:HH22	17:Q1:629:LEU:HD11	1.75	0.52
17:Q1:749:LEU:O	17:Q1:749:LEU:HD23	2.10	0.52
17:Q1:874:PHE:HE1	17:Q1:889:GLN:HG2	1.69	0.52
17:Q1:973:LYS:HD3	17:Q1:976:LYS:NZ	2.25	0.52
17:Q2:516:LEU:HD13	17:Q2:570:PHE:CE1	2.44	0.52
17:Q2:557:LEU:HD12	17:Q2:632:LYS:CD	2.39	0.52
17:Q2:598:ILE:HD11	17:Q2:632:LYS:HG3	1.91	0.52
17:Q2:601:ASN:O	17:Q2:602:SER:HB2	2.10	0.52
17:Q2:605:ARG:HH22	17:Q2:629:LEU:HD11	1.75	0.52
17:Q2:790:HIS:HB2	17:Q2:814:LEU:HD23	1.92	0.52
17:Q2:827:THR:O	17:Q2:827:THR:HG22	2.10	0.52
17:Q2:1035:LYS:HE3	17:Q2:1083:LEU:CD1	2.39	0.52
17:Q2:1125:SER:O	17:Q2:1126:ASP:HB2	2.10	0.52
18:R1:531:ILE:HD12	18:R1:583:GLU:OE2	2.09	0.52
18:R1:668:HIS:CE1	18:R1:717:LEU:HB3	2.45	0.52
19:R2:528:HIS:HD2	19:R2:580:PHE:HB2	1.72	0.52
19:R2:531:ILE:HD12	19:R2:583:GLU:OE2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:345:SER:HB3	20:S1:371:PHE:CE2	2.44	0.52
20:S1:483:GLU:OE2	20:S1:514:ARG:NH2	2.35	0.52
20:S2:433:GLU:OE1	20:S2:467:SER:OG	2.20	0.52
22:U1:296:LEU:CA	27:Z1:653:GLN:O	2.58	0.52
22:U2:53:ALA:HB1	22:U2:84:TRP:CZ2	2.44	0.52
23:V2:227:VAL:C	23:V2:229:SER:H	2.12	0.52
25:X1:790:ASN:CB	27:Z1:680:TRP:HZ2	2.22	0.52
25:X2:700:ILE:CA	26:Y2:1298:TYR:CE1	2.84	0.52
25:X2:722:LEU:O	25:X2:726:VAL:HG23	2.10	0.52
25:X2:744:ALA:CB	27:Z2:631:PHE:HE1	2.20	0.52
25:X2:777:ASN:O	25:X2:792:GLN:N	2.18	0.52
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:HB2	0.56	0.52
27:Z1:13:PHE:O	27:Z1:14:GLN:C	2.47	0.52
27:Z1:352:GLU:CD	27:Z1:410:PHE:HZ	2.10	0.52
27:Z1:380:ILE:HG21	27:Z1:382:GLN:HE21	1.74	0.52
27:Z1:637:GLN:HA	27:Z1:640:GLN:CG	2.40	0.52
27:Z2:522:GLU:CG	27:Z2:523:ASN:CA	2.86	0.52
1:A2:1017:THR:HG22	1:A2:1017:THR:O	2.83	0.52
6:F2:383:HIS:ND1	6:F2:471:GLN:OE1	2.42	0.52
6:F2:1066:ALA:HB3	6:F2:1067:PRO:HD3	1.91	0.52
9:I1:901:TYR:HE1	13:M1:573:ARG:HH12	1.53	0.52
9:I2:702:GLN:OE1	9:I2:702:GLN:N	2.41	0.52
9:I2:888:GLU:OE2	13:M3:597:LYS:N	2.43	0.52
9:I2:1034:ASP:OD1	13:M3:622:VAL:HG21	2.09	0.52
9:I2:1050:SER:CA	16:P3:142:LEU:H	2.22	0.52
9:I2:1284:GLU:N	9:I2:1284:GLU:OE1	2.38	0.52
9:I2:1644:ARG:HD3	10:J2:275:PHE:CE1	2.45	0.52
17:Q1:68:ILE:HD13	17:Q1:69:VAL:C	2.30	0.52
17:Q1:246:LYS:HD3	17:Q1:247:LEU:C	2.29	0.52
17:Q1:275:ILE:HD12	17:Q1:275:ILE:N	2.23	0.52
17:Q1:327:ALA:HA	17:Q1:330:THR:CG2	2.40	0.52
17:Q1:449:LEU:HD12	17:Q1:449:LEU:N	2.25	0.52
17:Q1:515:ASN:O	17:Q1:518:PRO:HD2	2.09	0.52
17:Q1:589:GLU:HG2	17:Q1:688:THR:HG23	1.91	0.52
17:Q1:790:HIS:HB2	17:Q1:814:LEU:HD23	1.92	0.52
17:Q1:934:VAL:HG22	17:Q1:935:GLU:N	2.24	0.52
17:Q2:657:LEU:H	17:Q2:657:LEU:CD2	2.23	0.52
17:Q2:749:LEU:O	17:Q2:749:LEU:HD23	2.10	0.52
17:Q2:857:LEU:HD12	17:Q2:916:SER:HG	1.73	0.52
18:R1:443:GLU:O	18:R1:446:SER:HB2	2.10	0.52
18:R1:631:ILE:HD13	18:R1:631:ILE:C	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:688:LEU:HD11	18:R1:721:THR:HG23	1.90	0.52
20:S2:548:TYR:HB2	21:T2:64:PRO:HB3	1.90	0.52
21:T2:154:ALA:HB2	21:T2:212:TRP:CE3	2.44	0.52
24:W2:70:TYR:HA	24:W2:80:THR:O	2.10	0.52
25:X2:717:LYS:HZ2	27:Z1:49:LEU:CG	2.12	0.52
25:X2:775:THR:HG23	25:X2:791:ILE:CD1	2.40	0.52
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:NZ	2.53	0.52
27:Z1:143:VAL:HG21	27:Z1:211:PHE:CZ	2.45	0.52
27:Z1:395:LYS:HG2	27:Z2:266:ARG:CG	2.27	0.52
27:Z2:202:GLY:O	27:Z2:298:THR:HG23	2.08	0.52
27:Z2:426:LEU:HD21	27:Z2:439:LEU:HD23	1.92	0.52
1:A1:1017:THR:HG21	1:A1:1048:ARG:HH11	1.74	0.52
1:A2:1228:TYR:OH	1:A1:642:ARG:CD	2.57	0.52
1:A3:1224:PRO:HD3	1:A4:648:TYR:CE1	2.44	0.52
1:A4:1048:ARG:NH1	4:D4:1095:ARG:HH11	2.07	0.52
4:D1:1032:PHE:N	4:D1:1033:PRO:HD2	2.25	0.52
4:D2:1032:PHE:N	4:D2:1033:PRO:HD2	2.25	0.52
7:G1:249:ASP:O	15:O2:247:TRP:NE1	2.42	0.52
9:I2:922:ASP:OD1	15:O3:186:PHE:CG	2.29	0.52
9:I2:981:VAL:HG21	15:O3:175:SER:CB	2.12	0.52
9:I2:1103:LEU:HB3	13:M3:614:ASP:CA	2.36	0.52
9:I2:1103:LEU:HD22	15:O3:275:LEU:CD2	2.36	0.52
17:Q1:887:TRP:HB2	17:Q1:903:LEU:HD21	1.92	0.52
17:Q1:1016:PHE:HE1	17:Q1:1065:VAL:CG1	2.22	0.52
17:Q2:515:ASN:O	17:Q2:518:PRO:HD2	2.09	0.52
17:Q2:979:SER:HB2	17:Q2:1104:ILE:HG23	1.90	0.52
17:Q2:1107:ASN:O	17:Q2:1111:GLU:HG3	2.10	0.52
19:R2:676:LYS:NZ	19:R2:679:LYS:HA	2.24	0.52
20:S2:483:GLU:OE2	20:S2:514:ARG:NH2	2.35	0.52
21:T1:117:LEU:HB2	21:T1:153:TRP:HE1	1.75	0.52
25:X2:778:LYS:C	25:X2:790:ASN:OD1	2.45	0.52
25:X2:800:HIS:NE2	27:Z2:691:SER:CB	2.73	0.52
25:X2:820:SER:C	27:Z1:273:GLN:H	2.13	0.52
27:Z1:142:ILE:CG1	27:Z1:156:ILE:HD11	2.38	0.52
27:Z1:359:GLU:CB	27:Z1:361:LYS:CE	2.85	0.52
27:Z2:13:PHE:O	27:Z2:14:GLN:C	2.47	0.52
27:Z2:216:LEU:CD1	27:Z2:272:ILE:CG1	2.84	0.52
27:Z2:287:ILE:HD12	27:Z2:327:LEU:CD1	2.40	0.52
27:Z2:287:ILE:HD12	27:Z2:327:LEU:HD13	1.91	0.52
1:A1:1017:THR:HG22	1:A1:1017:THR:O	2.84	0.52
1:A2:1086:LYS:HE2	4:D1:1095:ARG:NE	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:HB3	1:A4:644:ALA:HA	1.90	0.52
6:F2:1267:ARG:HH12	15:O4:262:ASP:C	2.12	0.52
7:G1:250:THR:HG21	13:M2:595:MET:O	1.71	0.52
7:G2:253:SER:CB	15:O4:253:LEU:H	2.23	0.52
17:Q1:61:PHE:CD1	17:Q1:71:THR:HG23	2.45	0.52
17:Q1:288:ASN:HA	17:Q1:333:ILE:HG22	1.91	0.52
17:Q1:380:THR:OG1	17:Q1:512:ILE:CD1	2.57	0.52
17:Q1:536:GLU:CG	17:Q1:587:LEU:HD13	2.39	0.52
17:Q2:61:PHE:CD1	17:Q2:71:THR:HG23	2.45	0.52
17:Q2:288:ASN:HA	17:Q2:333:ILE:HG22	1.91	0.52
17:Q2:449:LEU:HD12	17:Q2:449:LEU:N	2.25	0.52
17:Q2:646:PHE:CE2	17:Q2:669:VAL:HG12	2.44	0.52
17:Q2:700:GLU:HB3	17:Q2:758:ILE:CG2	2.39	0.52
17:Q2:825:ASP:HA	17:Q2:828:THR:OG1	2.08	0.52
18:R1:530:ILE:HG13	18:R1:549:PHE:CE2	2.42	0.52
19:R2:534:SER:O	19:R2:546:LEU:HD21	2.09	0.52
19:R2:539:LEU:HD22	19:R2:658:LEU:CD2	2.40	0.52
22:U1:248:LYS:CD	25:X1:805:ARG:C	2.69	0.52
22:U1:299:GLU:HB2	27:Z1:652:GLN:C	2.23	0.52
22:U1:299:GLU:HB2	27:Z1:652:GLN:HB3	0.53	0.52
22:U2:10:ASP:HB3	22:U2:29:SER:HB2	1.92	0.52
24:W1:466:TYR:HB3	24:W1:470:ILE:HB	1.92	0.52
25:X1:642:THR:O	25:X1:646:ASN:OD1	2.27	0.52
25:X1:747:THR:HG22	25:X1:751:LEU:HD12	1.92	0.52
25:X1:797:LEU:CB	26:Y1:1372:LYS:C	2.47	0.52
25:X2:655:PHE:HZ	27:Z2:545:LEU:C	2.11	0.52
25:X2:747:THR:HG22	25:X2:751:LEU:HD12	1.92	0.52
25:X2:778:LYS:C	25:X2:789:GLU:N	2.63	0.52
25:X2:814:LEU:CD2	25:X2:817:GLN:OE1	2.53	0.52
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:HG23	1.88	0.52
26:Y2:1277:LYS:CE	27:Z2:570:ILE:CB	2.84	0.52
26:Y2:1345:LEU:HD21	26:Y2:1348:LYS:HZ2	1.64	0.52
26:Y2:1369:PHE:HZ	27:Z2:683:LEU:HD13	1.75	0.52
26:Y2:1450:GLY:O	26:Y2:1454:LYS:HG3	2.08	0.52
27:Z1:312:ASN:ND2	27:Z1:397:ILE:HD12	2.20	0.52
27:Z2:35:ILE:HG12	27:Z2:46:TYR:CZ	2.42	0.52
27:Z2:125:SER:HB2	27:Z2:147:GLU:CD	2.29	0.52
27:Z2:213:PRO:HG2	27:Z2:213:PRO:O	2.08	0.52
27:Z2:628:MET:HG3	27:Z2:632:LYS:HE3	1.92	0.52
6:F1:161:ALA:HB3	9:I1:1335:LYS:C	2.30	0.52
6:F1:1807:GLU:N	6:F1:1807:GLU:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:253:SER:CB	13:M2:595:MET:SD	2.66	0.52
7:G1:257:THR:HG23	7:G1:257:THR:O	2.10	0.52
7:G2:251:TYR:C	15:O4:252:VAL:HA	2.30	0.52
9:I1:842:ASN:OD1	9:I1:843:GLU:N	2.43	0.52
9:I1:964:SER:OG	15:O1:182:THR:HG23	2.08	0.52
9:I2:893:LEU:HD13	13:M3:591:ASP:OD2	2.10	0.52
9:I2:967:SER:HB2	16:P3:145:SER:HA	0.65	0.52
9:I2:977:ASN:C	15:O3:174:LEU:HB3	2.27	0.52
9:I2:1046:HIS:HE1	14:N3:289:PHE:CE2	2.21	0.52
9:I2:1095:TYR:CZ	15:O3:267:ALA:C	2.75	0.52
9:I2:1107:SER:N	13:M3:615:PRO:HG3	2.25	0.52
17:Q1:210:LEU:HD11	17:Q1:270:LEU:HB2	1.92	0.52
17:Q1:381:TYR:O	17:Q1:512:ILE:HG13	2.00	0.52
17:Q1:646:PHE:HE2	17:Q1:669:VAL:CB	2.22	0.52
17:Q1:700:GLU:HB3	17:Q1:758:ILE:CG2	2.39	0.52
17:Q1:856:LYS:HB2	17:Q1:859:ASP:HA	1.91	0.52
17:Q1:1002:LEU:HD11	17:Q1:1006:TYR:HE1	1.74	0.52
17:Q2:68:ILE:HD13	17:Q2:69:VAL:C	2.30	0.52
17:Q2:636:ILE:O	17:Q2:637:ASN:HB2	2.09	0.52
17:Q2:711:ASN:CA	17:Q2:715:LEU:HD13	2.28	0.52
18:R1:206:ILE:HG23	20:S1:336:LEU:HB3	1.91	0.52
18:R1:617:ILE:HG23	18:R1:618:GLU:N	2.23	0.52
22:U1:53:ALA:HB1	22:U1:84:TRP:CZ2	2.44	0.52
22:U2:140:LEU:HA	23:V2:553:ILE:CB	2.40	0.52
25:X1:800:HIS:NE2	27:Z1:691:SER:CB	2.73	0.52
25:X2:637:LEU:C	27:Z2:528:PHE:CZ	2.83	0.52
26:Y2:1443:MET:HE1	27:Z2:332:GLU:OE2	2.08	0.52
27:Z1:26:ILE:CD1	27:Z1:37:PHE:CE1	2.90	0.52
27:Z1:314:ILE:HG23	27:Z1:327:LEU:O	2.09	0.52
27:Z1:544:THR:O	27:Z2:558:PHE:CD2	2.63	0.52
27:Z2:142:ILE:CD1	27:Z2:156:ILE:HD11	2.40	0.52
27:Z2:389:TRP:HZ3	27:Z2:393:LEU:CD1	2.12	0.52
1:A2:1226:LEU:CD2	1:A1:646:ILE:HB	2.40	0.52
1:A2:1228:TYR:OH	1:A1:639:ASN:O	2.26	0.52
1:A2:1280:GLN:O	1:A1:635:ARG:HD3	2.05	0.52
1:A3:1332:ARG:NH2	4:D3:902:SER:N	2.57	0.52
1:A4:521:ASN:ND2	4:D3:1019:ARG:HH22	2.07	0.52
4:D2:839:ASP:OD2	4:D2:947:SER:HB3	2.10	0.52
6:F1:156:LEU:HD11	9:I1:1392:VAL:HG22	1.92	0.52
6:F2:158:PRO:CB	9:I2:1337:ALA:HB3	2.36	0.52
9:I1:1644:ARG:HD3	10:J1:275:PHE:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1103:LEU:CG	13:M3:611:LYS:CB	2.58	0.52
9:I2:1106:LYS:HA	15:O3:277:GLU:CB	2.40	0.52
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB1	1.05	0.52
17:Q1:382:ARG:HH11	17:Q1:513:ASP:N	2.06	0.52
17:Q1:384:ASN:HA	17:Q1:509:ALA:N	2.23	0.52
17:Q1:642:PHE:CB	17:Q1:643:PRO:HD3	2.37	0.52
17:Q1:887:TRP:O	17:Q1:890:GLN:HB2	2.10	0.52
17:Q1:1043:ARG:NE	17:Q1:1117:ILE:HD13	2.24	0.52
17:Q2:366:ILE:HD12	17:Q2:377:ILE:HD13	1.92	0.52
17:Q2:636:ILE:HG13	17:Q2:637:ASN:N	2.24	0.52
17:Q2:646:PHE:HE2	17:Q2:669:VAL:CB	2.22	0.52
17:Q2:867:GLN:HG3	17:Q2:868:HIS:N	2.25	0.52
17:Q2:964:LEU:HD13	17:Q2:988:VAL:HG23	1.91	0.52
17:Q2:1016:PHE:HE1	17:Q2:1065:VAL:CG1	2.23	0.52
18:R1:159:ASP:OD2	20:S1:319:LEU:N	2.29	0.52
19:R2:534:SER:CB	19:R2:546:LEU:HD22	2.39	0.52
20:S1:397:GLU:OE1	20:S1:397:GLU:N	2.40	0.52
20:S2:524:ASN:O	20:S2:528:LEU:HG	2.10	0.52
22:U1:10:ASP:HB3	22:U1:29:SER:HB2	1.92	0.52
24:W1:500:GLU:HB2	24:W1:507:PHE:CZ	2.45	0.52
25:X1:714:PHE:CE2	26:Y1:1313:ALA:HA	2.45	0.52
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CG	2.23	0.52
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:CA	2.88	0.52
26:Y2:1225:PHE:HB2	27:Z2:539:ILE:HD13	1.89	0.52
27:Z2:142:ILE:CG1	27:Z2:156:ILE:HD11	2.38	0.52
27:Z2:209:TYR:CE2	27:Z2:335:MET:CA	2.93	0.52
27:Z2:282:GLN:OE1	27:Z2:333:MET:HE2	2.09	0.52
27:Z2:383:GLN:NE2	27:Z2:417:ILE:CD1	2.73	0.52
27:Z2:582:GLU:CA	27:Z2:582:GLU:OE1	2.54	0.52
1:A3:1222:ALA:CB	1:A4:598:VAL:CB	2.88	0.52
1:A3:1223:GLU:CD	1:A4:647:GLU:HB2	2.30	0.52
1:A4:624:ASP:C	4:D3:980:ARG:CD	2.73	0.52
6:F1:158:PRO:CG	9:I1:1339:LEU:H	2.17	0.52
9:I1:816:ASP:OD1	9:I1:817:ASP:N	2.42	0.52
9:I1:1326:GLU:OE1	10:J1:251:TYR:CE2	2.63	0.52
9:I2:885:GLU:C	13:M3:594:LYS:HE2	2.26	0.52
9:I2:1049:LEU:H	14:N3:293:LYS:CB	2.23	0.52
9:I2:1102:GLN:CD	15:O3:269:ILE:C	2.68	0.52
9:I2:1255:HIS:CB	14:N3:407:ALA:HB1	2.34	0.52
9:I2:1326:GLU:OE1	10:J2:251:TYR:CE2	2.63	0.52
17:Q1:584:LYS:CG	17:Q1:709:PHE:CZ	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:646:PHE:CE2	17:Q1:669:VAL:HG12	2.45	0.52
17:Q1:649:PHE:O	17:Q1:653:VAL:HG23	2.10	0.52
17:Q1:1107:ASN:O	17:Q1:1111:GLU:HG3	2.10	0.52
17:Q2:334:TRP:NE1	17:Q2:352:TYR:CD2	2.78	0.52
17:Q2:536:GLU:CG	17:Q2:587:LEU:HD13	2.39	0.52
17:Q2:670:THR:O	17:Q2:743:LEU:HD11	2.09	0.52
17:Q2:808:TYR:HD2	17:Q2:811:LEU:HB2	1.75	0.52
19:R2:610:GLU:HA	19:R2:610:GLU:OE1	2.10	0.52
19:R2:704:LEU:HD22	19:R2:704:LEU:H	1.74	0.52
21:T1:154:ALA:HB2	21:T1:212:TRP:CE3	2.44	0.52
22:U1:289:GLN:CG	25:X1:794:ILE:C	2.49	0.52
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CG	2.93	0.52
25:X1:776:PHE:HE2	26:Y1:1369:PHE:CE1	2.28	0.52
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CG	2.93	0.52
25:X2:711:LEU:CD1	26:Y2:1309:ASP:OD2	2.57	0.52
25:X2:714:PHE:CE2	26:Y2:1313:ALA:HA	2.45	0.52
25:X2:744:ALA:HB1	27:Z2:631:PHE:CE1	2.43	0.52
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CZ2	2.19	0.52
26:Y1:1383:ALA:C	26:Y2:1364:ASN:HB2	2.30	0.52
26:Y1:1383:ALA:H	26:Y2:1364:ASN:ND2	2.07	0.52
26:Y2:1332:LYS:NZ	27:Z1:55:HIS:CD2	2.78	0.52
27:Z1:142:ILE:CD1	27:Z1:156:ILE:HD11	2.40	0.52
27:Z1:209:TYR:N	27:Z1:210:PRO:HD2	2.20	0.52
27:Z1:217:LEU:HD22	27:Z1:269:LYS:CD	1.97	0.52
27:Z1:248:ASN:O	27:Z1:252:GLN:HG2	2.10	0.52
27:Z1:325:ILE:HG22	27:Z1:327:LEU:CD2	2.40	0.52
27:Z1:426:LEU:HD21	27:Z1:439:LEU:HD23	1.92	0.52
27:Z1:544:THR:O	27:Z2:558:PHE:HD2	1.93	0.52
27:Z1:690:ASP:O	27:Z1:694:ILE:CG1	2.54	0.52
27:Z2:297:TYR:CD1	27:Z2:320:ASP:HB2	2.45	0.52
1:A3:1327:VAL:CA	4:D3:876:SER:CB	2.87	0.51
4:D1:673:LEU:CG	1:A1:1094:ILE:HG21	2.39	0.51
4:D1:1057:GLN:CG	4:D1:1080:LEU:HD13	2.41	0.51
4:D3:839:ASP:OD2	4:D3:947:SER:HB3	2.10	0.51
4:D4:1057:GLN:CG	4:D4:1080:LEU:HD13	2.40	0.51
9:I1:902:GLN:CD	15:O1:205:ARG:HE	2.05	0.51
9:I1:908:ARG:HE	15:O1:209:LEU:HD13	0.72	0.51
9:I1:1644:ARG:CZ	10:J1:275:PHE:CE2	2.93	0.51
9:I2:892:HIS:HA	13:M3:588:MET:HA	1.89	0.51
9:I2:900:ARG:N	13:M3:584:GLN:CD	2.57	0.51
13:M3:494:GLU:OE2	13:M3:497:ARG:NH2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:81:LEU:O	15:O4:85:LYS:HG2	2.10	0.51
17:Q1:200:ILE:HD13	17:Q1:200:ILE:N	2.20	0.51
17:Q1:220:VAL:HG23	17:Q1:220:VAL:O	2.10	0.51
17:Q1:366:ILE:HD12	17:Q1:377:ILE:HD13	1.92	0.51
17:Q1:426:ILE:CD1	17:Q1:443:TRP:CH2	2.94	0.51
17:Q1:426:ILE:HB	17:Q1:479:VAL:HG21	1.92	0.51
17:Q1:557:LEU:HD12	17:Q1:632:LYS:CD	2.39	0.51
17:Q1:975:PHE:HE1	17:Q1:1044:ARG:HH21	1.58	0.51
17:Q2:847:LEU:HD21	17:Q2:875:PHE:CE2	2.45	0.51
17:Q2:852:ILE:HG23	17:Q2:853:LYS:N	2.24	0.51
24:W2:500:GLU:HB2	24:W2:507:PHE:CZ	2.45	0.51
25:X1:691:ASN:O	25:X1:695:GLN:HG3	2.10	0.51
25:X1:742:GLN:NE2	25:X1:743:GLN:N	2.57	0.51
26:Y1:1285:ASN:HA	26:Y1:1288:ILE:HG12	1.92	0.51
26:Y2:1277:LYS:HD2	27:Z2:567:THR:HG23	1.91	0.51
27:Z1:182:ILE:CB	27:Z1:198:ASN:OD1	2.59	0.51
27:Z1:209:TYR:CE2	27:Z1:335:MET:CA	2.93	0.51
27:Z1:288:ASN:O	27:Z1:289:PRO:O	2.25	0.51
27:Z1:297:TYR:CD1	27:Z1:320:ASP:HB2	2.46	0.51
27:Z1:537:GLN:O	27:Z2:552:ARG:HG3	2.03	0.51
27:Z2:144:VAL:N	27:Z2:152:THR:O	2.40	0.51
27:Z2:192:LEU:CD1	27:Z2:226:ILE:HD13	2.32	0.51
27:Z2:417:ILE:HG23	27:Z2:448:GLN:OE1	2.10	0.51
27:Z2:637:GLN:HA	27:Z2:640:GLN:CG	2.39	0.51
27:Z2:690:ASP:O	27:Z2:694:ILE:CG1	2.54	0.51
1:A2:1229:VAL:HG21	1:A1:640:LEU:O	2.07	0.51
1:A2:1233:GLN:HE21	1:A1:640:LEU:HD11	0.68	0.51
1:A3:862:LEU:CD1	1:A3:904:GLN:HB3	2.41	0.51
1:A3:1070:ASP:O	9:I2:1238:LYS:CE	2.59	0.51
1:A3:1221:ILE:HG21	1:A4:596:ARG:CG	2.38	0.51
4:D3:692:ILE:HD13	5:E3:77:PHE:CE2	2.45	0.51
6:F1:161:ALA:C	9:I1:1335:LYS:H	1.77	0.51
6:F1:1165:VAL:HG12	6:F1:1166:GLY:H	1.76	0.51
6:F1:1832:ASN:N	6:F1:1835:GLU:OE2	2.44	0.51
9:I1:301:GLN:OE1	9:I1:301:GLN:N	2.42	0.51
9:I1:1543:LEU:HD22	10:J2:300:ILE:HG21	1.86	0.51
9:I2:842:ASN:OD1	9:I2:843:GLU:N	2.43	0.51
9:I2:1049:LEU:HD11	16:P3:142:LEU:CA	2.29	0.51
9:I2:1644:ARG:CZ	10:J2:275:PHE:CE2	2.93	0.51
17:Q1:242:LEU:CD2	17:Q1:242:LEU:H	2.18	0.51
17:Q1:334:TRP:NE1	17:Q1:352:TYR:CD2	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:345:GLN:CG	17:Q1:346:LEU:HD22	2.16	0.51
17:Q1:384:ASN:HB3	17:Q1:509:ALA:CB	2.39	0.51
17:Q1:432:LYS:O	17:Q1:432:LYS:HG3	2.10	0.51
17:Q1:516:LEU:HD13	17:Q1:570:PHE:CE1	2.44	0.51
17:Q1:827:THR:HG23	17:Q1:830:SER:CB	2.39	0.51
17:Q2:400:PHE:CD1	17:Q2:460:TYR:CD1	2.98	0.51
17:Q2:631:THR:HG23	17:Q2:631:THR:O	2.10	0.51
17:Q2:649:PHE:O	17:Q2:653:VAL:HG23	2.10	0.51
17:Q2:650:LEU:HD11	17:Q2:666:LYS:HA	1.91	0.51
17:Q2:1078:LEU:HB2	17:Q2:1153:ASN:OD1	2.10	0.51
19:R2:511:ILE:HG23	19:R2:512:TYR:N	2.25	0.51
20:S2:525:ASP:HA	20:S2:528:LEU:HD12	1.90	0.51
25:X1:742:GLN:OE1	25:X1:743:GLN:HG2	1.98	0.51
25:X1:790:ASN:HA	27:Z1:680:TRP:HZ2	1.75	0.51
25:X2:655:PHE:CE1	27:Z1:534:GLU:CD	2.82	0.51
26:Y1:1336:THR:O	26:Y1:1340:ARG:CG	2.58	0.51
26:Y1:1387:LYS:HZ3	26:Y2:1390:LEU:HD13	1.75	0.51
26:Y1:1389:SER:OG	26:Y2:1357:ASN:OD1	2.26	0.51
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:HD11	1.90	0.51
27:Z1:241:THR:CA	27:Z1:246:LYS:HE2	2.32	0.51
27:Z1:294:LEU:CD1	27:Z1:325:ILE:CD1	2.84	0.51
27:Z2:34:ARG:CB	27:Z2:95:TRP:HH2	2.23	0.51
27:Z2:396:CYS:O	27:Z2:400:SER:N	2.41	0.51
27:Z2:417:ILE:O	27:Z2:418:ALA:HB2	2.10	0.51
27:Z2:422:ARG:NE	27:Z2:442:ASN:CG	2.64	0.51
1:A2:1227:PRO:HD3	1:A1:647:GLU:CD	2.28	0.51
1:A3:1070:ASP:CA	9:I2:1238:LYS:NZ	2.72	0.51
1:A3:1402:ASP:CB	4:D3:821:GLU:CD	2.78	0.51
1:A4:862:LEU:CD1	1:A4:904:GLN:HB3	2.41	0.51
4:D4:839:ASP:OD2	4:D4:947:SER:HB3	2.10	0.51
6:F1:1049:GLN:CA	9:I1:1388:GLU:N	2.74	0.51
6:F1:1265:GLN:HA	15:O2:252:VAL:CG2	2.41	0.51
9:I1:900:ARG:HA	13:M1:577:LEU:CA	2.38	0.51
17:Q1:847:LEU:HA	17:Q1:876:GLN:HE22	1.74	0.51
17:Q1:852:ILE:HG23	17:Q1:853:LYS:N	2.24	0.51
17:Q1:867:GLN:HG3	17:Q1:868:HIS:N	2.25	0.51
17:Q1:1063:LYS:HD2	17:Q1:1067:ASP:OD2	2.09	0.51
17:Q2:94:ILE:HG23	17:Q2:94:ILE:O	2.08	0.51
17:Q2:210:LEU:HD11	17:Q2:270:LEU:HB2	1.92	0.51
17:Q2:361:TYR:OH	17:Q2:387:MET:HG3	2.10	0.51
17:Q2:432:LYS:O	17:Q2:432:LYS:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:629:LEU:HB3	17:Q2:630:THR:C	2.31	0.51
17:Q2:703:THR:OG1	17:Q2:709:PHE:HB2	2.10	0.51
17:Q2:831:LEU:HD12	17:Q2:835:PHE:HB3	1.91	0.51
17:Q2:1002:LEU:HD11	17:Q2:1006:TYR:HE1	1.75	0.51
17:Q2:1064:ARG:O	17:Q2:1068:GLU:HG2	2.11	0.51
18:R1:610:GLU:HA	18:R1:610:GLU:OE1	2.11	0.51
19:R2:508:MET:O	19:R2:512:TYR:HD2	1.94	0.51
21:T2:214:PRO:HG2	21:T2:264:LEU:HA	1.93	0.51
22:U2:117:ALA:HB3	22:U2:124:LYS:HB3	1.93	0.51
23:V2:152:LEU:O	23:V2:156:GLU:HG3	2.11	0.51
25:X1:722:LEU:O	25:X1:726:VAL:HG23	2.10	0.51
25:X2:690:GLN:CG	27:Z2:581:PHE:CZ	2.91	0.51
25:X2:693:ILE:CB	27:Z2:7:LEU:CG	2.46	0.51
25:X2:704:GLN:NE2	27:Z2:598:LEU:CD1	2.62	0.51
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CZ2	2.19	0.51
27:Z1:116:ILE:HD13	27:Z1:125:SER:C	2.30	0.51
27:Z1:208:PHE:HD1	27:Z1:211:PHE:H	1.58	0.51
27:Z1:241:THR:CB	27:Z1:246:LYS:HZ1	2.23	0.51
27:Z1:328:PHE:HB3	27:Z1:351:ILE:HD11	1.92	0.51
27:Z2:116:ILE:CG1	27:Z2:124:LYS:HB3	2.34	0.51
27:Z2:137:TYR:CA	27:Z2:217:LEU:CG	2.88	0.51
1:A4:521:ASN:HB3	4:D3:1019:ARG:HH21	1.48	0.51
4:D4:1032:PHE:N	4:D4:1033:PRO:HD2	2.25	0.51
6:F2:1165:VAL:HG12	6:F2:1166:GLY:H	1.76	0.51
9:I1:1254:VAL:HG21	15:O1:259:ASP:HA	1.92	0.51
9:I2:401:GLN:N	9:I2:401:GLN:OE1	2.43	0.51
9:I2:899:LEU:HD11	13:M3:585:LEU:N	2.15	0.51
17:Q1:242:LEU:HD23	17:Q1:242:LEU:N	2.20	0.51
17:Q1:361:TYR:OH	17:Q1:387:MET:HG3	2.11	0.51
17:Q1:567:PHE:O	17:Q1:570:PHE:HB3	2.11	0.51
17:Q1:843:PHE:CE1	17:Q1:875:PHE:HZ	2.21	0.51
17:Q1:960:ILE:CG2	17:Q1:991:LEU:HD11	2.28	0.51
17:Q2:69:VAL:HG23	17:Q2:69:VAL:O	2.10	0.51
17:Q2:76:TYR:O	17:Q2:77:SER:HB2	2.10	0.51
17:Q2:228:ILE:HG13	17:Q2:228:ILE:O	2.10	0.51
17:Q2:798:LYS:HZ1	17:Q2:822:ASP:HB3	1.73	0.51
17:Q2:856:LYS:HB2	17:Q2:859:ASP:HA	1.91	0.51
17:Q2:975:PHE:HE1	17:Q2:1044:ARG:HH21	1.58	0.51
19:R2:533:LEU:CG	19:R2:537:PHE:CE2	2.93	0.51
22:U1:209:PRO:HD2	27:Z1:658:LEU:O	2.08	0.51
25:X1:650:GLU:C	25:X1:654:HIS:CE1	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CD2	2.23	0.51
25:X2:655:PHE:HZ	27:Z2:545:LEU:CB	1.90	0.51
25:X2:694:ASP:HB2	27:Z2:431:TRP:C	2.00	0.51
25:X2:717:LYS:NZ	27:Z1:49:LEU:CG	2.73	0.51
27:Z1:124:LYS:CD	27:Z1:125:SER:C	2.59	0.51
27:Z1:129:LYS:NZ	27:Z1:185:LEU:HD12	2.18	0.51
27:Z1:351:ILE:HD12	27:Z1:389:TRP:HH2	1.74	0.51
27:Z2:129:LYS:NZ	27:Z2:185:LEU:HD12	2.19	0.51
27:Z2:325:ILE:HG22	27:Z2:327:LEU:CD2	2.40	0.51
1:A3:1223:GLU:HG2	1:A4:647:GLU:CB	2.17	0.51
1:A3:1268:ASP:O	1:A4:730:THR:CG2	2.59	0.51
4:D1:839:ASP:OD2	4:D1:947:SER:HB3	2.10	0.51
6:F2:138:ILE:O	9:I2:1391:THR:HG21	2.10	0.51
6:F2:1000:LEU:HD12	6:F2:1001:ILE:HG23	1.93	0.51
9:I1:916:ALA:HB1	13:M1:534:GLN:NE2	2.15	0.51
9:I1:1667:GLN:HA	9:I2:1668:HIS:HA	1.92	0.51
9:I2:1098:LEU:C	15:O3:268:GLY:O	2.49	0.51
9:I2:1305:LEU:HD11	15:O3:260:LEU:HD12	1.93	0.51
17:Q1:629:LEU:HB3	17:Q1:630:THR:C	2.31	0.51
17:Q2:327:ALA:HA	17:Q2:330:THR:CG2	2.40	0.51
17:Q2:426:ILE:CD1	17:Q2:443:TRP:CH2	2.93	0.51
17:Q2:426:ILE:HB	17:Q2:479:VAL:HG21	1.92	0.51
17:Q2:520:ILE:O	17:Q2:523:ASP:HB3	2.11	0.51
18:R1:207:SER:HG	20:S1:359:TYR:HH	1.58	0.51
18:R1:539:LEU:HD22	18:R1:658:LEU:CD2	2.40	0.51
20:S1:153:LYS:HA	21:T1:261:SER:CB	2.41	0.51
22:U1:208:LEU:CD1	27:Z1:660:SER:CB	2.57	0.51
23:V1:265:ILE:C	23:V1:267:ARG:H	2.12	0.51
24:W1:70:TYR:HA	24:W1:80:THR:O	2.10	0.51
24:W1:531:LYS:HB3	24:W1:553:ILE:HG12	1.93	0.51
26:Y1:1277:LYS:CD	27:Z1:571:ILE:CG1	2.88	0.51
26:Y1:1455:ASN:HB3	26:Y1:1456:LEU:N	2.21	0.51
26:Y2:1285:ASN:HA	26:Y2:1288:ILE:HG12	1.93	0.51
27:Z1:34:ARG:CB	27:Z1:95:TRP:HH2	2.23	0.51
27:Z1:137:TYR:CA	27:Z1:217:LEU:CG	2.88	0.51
27:Z1:186:GLU:CG	27:Z1:302:ILE:O	2.57	0.51
27:Z1:399:GLU:CD	27:Z2:263:TRP:HE3	2.13	0.51
27:Z1:422:ARG:NE	27:Z1:442:ASN:CG	2.64	0.51
27:Z2:314:ILE:HG23	27:Z2:327:LEU:O	2.10	0.51
27:Z2:381:ILE:CD1	27:Z2:424:PRO:CG	2.86	0.51
27:Z2:576:ASP:O	27:Z2:580:LYS:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1233:GLN:CG	1:A1:587:VAL:HG13	2.33	0.51
1:A3:1223:GLU:HG2	1:A4:648:TYR:CE2	2.29	0.51
1:A3:1333:ARG:C	4:D3:887:ALA:HB2	2.30	0.51
1:A4:442:ARG:NE	4:D3:1021:ASP:HB3	2.16	0.51
4:D4:1016:LEU:HD11	4:D4:1087:LEU:HD11	1.93	0.51
9:I1:905:ALA:HB2	13:M1:573:ARG:NH1	2.26	0.51
9:I2:1028:CYS:HB3	13:M3:613:ASP:CG	2.31	0.51
9:I2:1032:THR:N	13:M3:617:THR:HG23	2.25	0.51
15:O3:81:LEU:O	15:O3:85:LYS:HG2	2.10	0.51
17:Q1:178:ILE:HG23	17:Q1:179:ASN:N	2.26	0.51
17:Q1:808:TYR:HD2	17:Q1:811:LEU:HB2	1.75	0.51
17:Q1:1064:ARG:O	17:Q1:1068:GLU:HG2	2.11	0.51
17:Q2:73:GLN:CD	17:Q2:113:THR:HA	2.31	0.51
17:Q2:94:ILE:O	17:Q2:96:TYR:HD1	1.92	0.51
17:Q2:654:VAL:CB	17:Q2:666:LYS:HE2	2.40	0.51
17:Q2:933:LEU:HD13	17:Q2:933:LEU:C	2.31	0.51
17:Q2:973:LYS:HD3	17:Q2:976:LYS:NZ	2.25	0.51
18:R1:431:ILE:H	18:R1:431:ILE:HD12	1.74	0.51
19:R2:157:ASP:HB3	20:S2:355:ILE:HG21	1.92	0.51
24:W2:58:ASN:HB3	24:W2:70:TYR:CZ	2.46	0.51
25:X2:699:TYR:CE1	27:Z2:49:LEU:HD22	2.44	0.51
25:X2:823:LYS:NZ	27:Z1:272:ILE:H	2.08	0.51
26:Y1:1277:LYS:HG3	27:Z1:571:ILE:CG1	2.40	0.51
27:Z1:180:ASN:O	27:Z1:198:ASN:HB3	2.11	0.51
27:Z1:319:PHE:HD2	27:Z1:323:SER:O	1.94	0.51
27:Z1:371:GLY:O	27:Z1:386:PHE:CD1	2.63	0.51
27:Z1:576:ASP:O	27:Z1:580:LYS:HG3	2.10	0.51
27:Z1:628:MET:HG3	27:Z1:632:LYS:HE3	1.91	0.51
27:Z2:102:ASP:CB	27:Z2:105:ILE:HD12	2.41	0.51
27:Z2:116:ILE:HD13	27:Z2:125:SER:C	2.30	0.51
27:Z2:133:HIS:CE1	27:Z2:211:PHE:CE1	2.99	0.51
27:Z2:289:PRO:CD	27:Z2:350:LEU:CB	2.73	0.51
27:Z2:417:ILE:HG22	27:Z2:448:GLN:OE1	2.10	0.51
1:A1:1242:THR:HG21	1:A1:1248:ILE:HD11	1.93	0.51
1:A2:1221:ILE:HG12	1:A1:596:ARG:HD2	1.70	0.51
1:A2:1221:ILE:HD13	1:A1:596:ARG:HD3	1.93	0.51
1:A2:1229:VAL:CG2	1:A1:643:ALA:HB3	2.41	0.51
1:A2:1268:ASP:OD2	1:A1:729:SER:CB	2.56	0.51
1:A3:1327:VAL:O	4:D3:876:SER:N	2.40	0.51
4:D2:569:GLU:HA	4:D2:572:GLN:HG2	1.93	0.51
4:D4:692:ILE:HD13	5:E4:77:PHE:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:247:ASP:OD1	15:O2:247:TRP:CZ3	2.63	0.51
7:G1:251:TYR:CE1	15:O2:248:SER:OG	2.63	0.51
9:I1:1051:LYS:HZ1	14:N1:289:PHE:C	2.02	0.51
9:I2:961:ARG:HG3	16:P3:155:GLU:CA	2.41	0.51
9:I2:1048:GLU:OE1	14:N3:293:LYS:NZ	2.44	0.51
9:I2:1099:ARG:NH1	13:M3:609:GLY:N	2.58	0.51
9:I2:1305:LEU:HD12	15:O3:263:GLN:OE1	1.49	0.51
17:Q1:584:LYS:HD3	17:Q1:709:PHE:CZ	2.46	0.51
17:Q1:703:THR:OG1	17:Q1:709:PHE:HB2	2.10	0.51
17:Q1:827:THR:HA	17:Q1:830:SER:OG	2.11	0.51
17:Q1:1062:VAL:CG1	17:Q1:1140:VAL:HG21	2.41	0.51
17:Q2:98:LEU:HB2	17:Q2:107:ILE:HG22	1.92	0.51
17:Q2:615:GLU:HB2	17:Q2:645:ILE:CG1	2.39	0.51
18:R1:157:ASP:HB3	20:S1:355:ILE:HG21	1.92	0.51
18:R1:527:VAL:CG1	18:R1:557:GLU:HG3	2.41	0.51
18:R1:621:GLN:CB	18:R1:670:LYS:HE2	2.41	0.51
19:R2:580:PHE:CE2	19:R2:584:ILE:CD1	2.94	0.51
19:R2:591:ILE:HG23	19:R2:592:LYS:N	2.25	0.51
19:R2:713:GLU:O	19:R2:717:LEU:HG	2.11	0.51
22:U1:241:ARG:HB3	27:Z1:656:SER:OG	2.08	0.51
24:W1:58:ASN:HB3	24:W1:70:TYR:CZ	2.46	0.51
24:W2:531:LYS:HB3	24:W2:553:ILE:HG12	1.93	0.51
26:Y1:1363:LEU:HD23	26:Y1:1366:LEU:CD1	2.25	0.51
26:Y2:1406:VAL:HG21	27:Z2:704:VAL:HG13	1.92	0.51
27:Z1:24:ARG:HH21	27:Z1:440:MET:HB3	1.49	0.51
27:Z1:252:GLN:CA	27:Z1:335:MET:CE	2.87	0.51
27:Z1:274:LYS:O	27:Z1:274:LYS:CG	2.59	0.51
27:Z2:119:GLU:HB2	27:Z2:120:GLU:N	2.26	0.51
27:Z2:305:ILE:HD13	27:Z2:365:THR:HG21	1.93	0.51
1:A2:1274:ASP:CA	1:A1:727:ASN:ND2	2.70	0.51
1:A4:442:ARG:HG3	4:D3:1024:THR:HG23	1.93	0.51
4:D2:1014:LEU:HB2	4:D2:1016:LEU:HD13	1.93	0.51
4:D3:972:TRP:CZ2	4:D3:980:ARG:HD3	2.45	0.51
4:D4:569:GLU:HA	4:D4:572:GLN:HG2	1.93	0.51
4:D4:1014:LEU:HB2	4:D4:1016:LEU:HD13	1.93	0.51
9:I1:401:GLN:N	9:I1:401:GLN:OE1	2.43	0.51
9:I1:1051:LYS:CG	14:N1:293:LYS:HZ3	2.24	0.51
9:I2:624:GLU:O	9:I2:627:ASN:ND2	2.40	0.51
9:I2:976:ARG:CD	14:N3:297:ALA:HB2	2.40	0.51
17:Q1:227:ARG:CD	17:Q1:229:PHE:CZ	2.94	0.51
17:Q1:654:VAL:CB	17:Q1:666:LYS:HE2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:706:LEU:CB	17:Q1:707:PRO:HD3	2.36	0.51
17:Q1:961:SER:HB2	17:Q1:991:LEU:HD22	1.91	0.51
17:Q1:1078:LEU:HB2	17:Q1:1153:ASN:OD1	2.10	0.51
17:Q2:536:GLU:HG2	17:Q2:587:LEU:HD13	1.93	0.51
17:Q2:598:ILE:HG13	17:Q2:632:LYS:HD2	1.93	0.51
18:R1:435:PHE:HB3	18:R1:448:ILE:CD1	2.40	0.51
18:R1:449:LEU:C	18:R1:449:LEU:HD13	2.31	0.51
18:R1:533:LEU:HD23	18:R1:549:PHE:CG	2.46	0.51
18:R1:704:LEU:HD22	18:R1:704:LEU:H	1.74	0.51
19:R2:615:THR:HG23	19:R2:616:LEU:N	2.25	0.51
20:S2:520:ARG:HH21	20:S2:542:GLN:HE21	1.58	0.51
21:T1:138:PRO:HB2	21:T1:140:ILE:HD11	1.93	0.51
22:U1:308:TRP:CD1	23:V1:66:PRO:HA	2.46	0.51
23:V1:152:LEU:O	23:V1:156:GLU:HG3	2.10	0.51
23:V2:265:ILE:C	23:V2:267:ARG:H	2.12	0.51
26:Y1:1387:LYS:NZ	26:Y2:1390:LEU:HD13	2.25	0.51
26:Y2:1399:ILE:CD1	27:Z2:697:CYS:HB3	2.38	0.51
27:Z1:52:SER:O	27:Z1:53:LEU:HD23	2.11	0.51
27:Z2:135:LYS:NZ	27:Z2:217:LEU:O	2.44	0.51
27:Z2:143:VAL:HG21	27:Z2:211:PHE:CZ	2.46	0.51
27:Z2:180:ASN:O	27:Z2:198:ASN:HB3	2.11	0.51
1:A2:1201:ARG:NE	1:A1:647:GLU:HB3	1.93	0.51
1:A2:1226:LEU:H	1:A1:644:ALA:N	2.09	0.51
1:A2:1277:TRP:HD1	1:A1:642:ARG:HH12	1.58	0.51
1:A4:521:ASN:CG	4:D3:1019:ARG:HH22	2.12	0.51
4:D1:569:GLU:HA	4:D1:572:GLN:HG2	1.93	0.51
4:D1:972:TRP:CZ2	4:D1:980:ARG:HD3	2.45	0.51
4:D1:1016:LEU:HD11	4:D1:1087:LEU:HD11	1.93	0.51
4:D2:972:TRP:CZ2	4:D2:980:ARG:HD3	2.45	0.51
4:D3:1032:PHE:N	4:D3:1033:PRO:HD2	2.25	0.51
7:G1:251:TYR:CE2	15:O2:244:GLU:HB3	2.42	0.51
7:G1:255:LEU:CB	15:O2:243:LEU:C	2.78	0.51
9:I2:888:GLU:CB	13:M3:591:ASP:O	2.59	0.51
9:I2:928:LEU:CD1	15:O3:180:ASP:H	1.93	0.51
9:I2:928:LEU:HB3	15:O3:179:LEU:CD2	2.20	0.51
9:I2:1168:ALA:HB3	15:O3:270:THR:N	2.09	0.51
17:Q1:76:TYR:O	17:Q1:77:SER:HB2	2.10	0.51
17:Q1:285:ILE:HD12	17:Q1:285:ILE:N	2.26	0.51
17:Q1:588:ILE:HD13	17:Q1:588:ILE:C	2.31	0.51
17:Q1:636:ILE:O	17:Q1:637:ASN:HB2	2.09	0.51
17:Q1:749:LEU:HG	17:Q1:807:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:959:ASN:HA	17:Q1:962:ASN:OD1	2.11	0.51
17:Q1:962:ASN:HA	17:Q1:965:LYS:CE	2.41	0.51
17:Q1:1097:GLU:HG3	17:Q1:1098:THR:N	2.26	0.51
17:Q2:588:ILE:HD13	17:Q2:588:ILE:C	2.31	0.51
17:Q2:706:LEU:CB	17:Q2:707:PRO:HD3	2.36	0.51
17:Q2:887:TRP:O	17:Q2:890:GLN:HB2	2.10	0.51
17:Q2:1057:LEU:CD1	17:Q2:1061:ILE:HD12	2.40	0.51
18:R1:254:ALA:O	20:S1:315:LYS:NZ	2.40	0.51
18:R1:518:ILE:C	18:R1:518:ILE:HD13	2.31	0.51
18:R1:713:GLU:O	18:R1:717:LEU:HG	2.11	0.51
19:R2:518:ILE:C	19:R2:518:ILE:HD13	2.31	0.51
19:R2:621:GLN:CB	19:R2:670:LYS:HE2	2.41	0.51
19:R2:711:LEU:CA	19:R2:714:TYR:CE2	2.94	0.51
20:S1:524:ASN:O	20:S1:528:LEU:HG	2.10	0.51
20:S2:186:PHE:CD1	20:S2:487:LEU:HD11	2.46	0.51
21:T1:62:ALA:HB2	21:T1:107:TRP:CE2	2.46	0.51
21:T2:259:ARG:HB2	21:T2:272:SER:HB2	1.93	0.51
22:U2:29:SER:C	22:U2:31:GLN:H	2.13	0.51
23:V2:156:GLU:HG2	23:V2:179:LEU:CD2	2.41	0.51
25:X1:777:ASN:O	25:X1:778:LYS:HD2	2.11	0.51
26:Y1:1277:LYS:CE	27:Z1:570:ILE:CB	2.84	0.51
26:Y1:1405:GLN:HA	26:Y1:1408:ARG:HD2	1.93	0.51
26:Y2:1284:THR:OG1	27:Z2:578:ARG:HG3	2.11	0.51
27:Z1:164:ILE:HD11	27:Z1:277:ARG:NH1	2.26	0.51
27:Z1:371:GLY:O	27:Z1:386:PHE:CE1	2.64	0.51
27:Z2:209:TYR:CE1	27:Z2:335:MET:HA	2.26	0.51
27:Z2:288:ASN:O	27:Z2:289:PRO:O	2.25	0.51
27:Z2:611:GLN:HA	27:Z2:612:ILE:N	2.23	0.51
1:A3:1201:ARG:HA	1:A4:647:GLU:OE2	2.11	0.51
1:A4:929:ASN:HD22	4:D3:468:LYS:HE3	0.68	0.51
4:D2:692:ILE:HD13	5:E2:77:PHE:CE2	2.45	0.51
6:F2:1392:LEU:N	6:F2:1393:PRO:HD2	2.26	0.51
6:F2:1832:ASN:N	6:F2:1835:GLU:OE2	2.44	0.51
7:G2:253:SER:HB2	15:O4:253:LEU:N	2.26	0.51
7:G2:257:THR:HG23	7:G2:257:THR:O	2.10	0.51
9:I1:702:GLN:OE1	9:I1:702:GLN:N	2.41	0.51
9:I1:1034:ASP:CB	16:P1:147:LEU:HD23	2.40	0.51
9:I2:911:PRO:CG	15:O3:197:ARG:CG	2.81	0.51
9:I2:921:GLU:OE1	16:P3:157:GLU:OE1	2.29	0.51
13:M3:605:THR:O	15:O3:261:LYS:NZ	2.43	0.51
15:O2:81:LEU:O	15:O2:85:LYS:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:73:GLN:CD	17:Q1:113:THR:HA	2.31	0.51
17:Q1:532:LYS:HD2	17:Q1:533:LEU:N	2.26	0.51
17:Q1:536:GLU:HG2	17:Q1:587:LEU:HD13	1.93	0.51
17:Q1:598:ILE:HG13	17:Q1:632:LYS:HD2	1.93	0.51
17:Q1:617:THR:HG23	17:Q1:618:LEU:N	2.25	0.51
17:Q1:634:VAL:HG13	17:Q1:635:VAL:N	2.26	0.51
17:Q1:873:GLN:O	17:Q1:877:GLU:HG3	2.11	0.51
17:Q1:896:TYR:CD2	17:Q1:933:LEU:HD12	2.46	0.51
17:Q1:933:LEU:HD13	17:Q1:933:LEU:C	2.31	0.51
17:Q1:1057:LEU:CD1	17:Q1:1061:ILE:HD12	2.41	0.51
17:Q2:165:ILE:CD1	17:Q2:174:TYR:CD1	2.94	0.51
17:Q2:220:VAL:HG23	17:Q2:220:VAL:O	2.10	0.51
17:Q2:316:ILE:HG13	17:Q2:331:LEU:HD21	1.93	0.51
17:Q2:749:LEU:CD1	17:Q2:807:PHE:CE1	2.94	0.51
17:Q2:929:LEU:CD2	19:R2:691:THR:HA	2.41	0.51
18:R1:591:ILE:HG23	18:R1:592:LYS:N	2.25	0.51
18:R1:667:LEU:HD22	18:R1:670:LYS:HE3	1.93	0.51
24:W2:258:ASP:OD1	24:W2:260:VAL:HG22	2.11	0.51
25:X2:714:PHE:HE2	26:Y2:1316:GLU:HB2	1.71	0.51
27:Z1:90:VAL:HG11	27:Z1:156:ILE:HD13	1.92	0.51
27:Z1:124:LYS:CE	27:Z1:147:GLU:OE1	2.59	0.51
27:Z1:403:ASN:CA	27:Z2:262:ASN:ND2	2.73	0.51
27:Z2:136:SER:O	27:Z2:217:LEU:HD12	2.02	0.51
27:Z2:137:TYR:CA	27:Z2:269:LYS:CD	2.84	0.51
27:Z2:324:LEU:N	27:Z2:354:VAL:O	2.32	0.51
27:Z2:328:PHE:HB3	27:Z2:351:ILE:HD11	1.92	0.51
27:Z2:371:GLY:O	27:Z2:386:PHE:CE1	2.64	0.51
27:Z2:522:GLU:HG2	27:Z2:525:LEU:H	1.76	0.51
1:A3:1327:VAL:HB	4:D3:873:GLN:N	2.26	0.50
9:I1:754:ARG:NH2	13:M1:552:TYR:HE2	2.07	0.50
9:I1:1013:GLU:OE1	9:I1:1013:GLU:N	2.41	0.50
9:I2:888:GLU:OE2	13:M3:597:LYS:CA	2.54	0.50
9:I2:904:GLU:O	13:M3:577:LEU:HD11	2.05	0.50
9:I2:1049:LEU:CB	14:N3:293:LYS:C	2.76	0.50
9:I2:1099:ARG:O	13:M3:611:LYS:CE	2.59	0.50
9:I2:1301:ASN:O	15:O3:263:GLN:NE2	2.44	0.50
13:M1:494:GLU:OE2	13:M1:497:ARG:NH2	2.42	0.50
15:O1:81:LEU:O	15:O1:85:LYS:HG2	2.10	0.50
17:Q1:61:PHE:CE1	17:Q1:71:THR:CG2	2.94	0.50
17:Q1:136:PRO:HB2	17:Q1:166:ILE:HG23	1.92	0.50
17:Q1:361:TYR:HE2	17:Q1:387:MET:HG2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:382:ARG:CZ	17:Q1:508:ASN:O	2.59	0.50
17:Q1:463:LYS:O	17:Q1:478:PHE:HD1	1.94	0.50
17:Q1:509:ALA:CB	17:Q1:570:PHE:CD1	2.94	0.50
17:Q1:520:ILE:O	17:Q1:523:ASP:HB3	2.11	0.50
17:Q1:549:MET:CE	17:Q1:629:LEU:H	2.25	0.50
17:Q1:584:LYS:HB3	17:Q1:586:ASP:CB	2.38	0.50
17:Q1:725:PHE:CD1	17:Q1:744:LYS:CG	2.94	0.50
17:Q1:1011:ASP:OD2	17:Q1:1013:GLU:HG3	2.12	0.50
17:Q2:532:LYS:HD2	17:Q2:533:LEU:N	2.26	0.50
17:Q2:584:LYS:HD3	17:Q2:709:PHE:CZ	2.46	0.50
17:Q2:634:VAL:HG13	17:Q2:635:VAL:N	2.26	0.50
17:Q2:962:ASN:HA	17:Q2:965:LYS:CE	2.41	0.50
17:Q2:989:GLU:O	17:Q2:992:LYS:HG2	2.12	0.50
17:Q2:1021:LEU:HD22	17:Q2:1025:ASP:OD2	2.11	0.50
18:R1:406:GLU:OE1	18:R1:447:PHE:CG	2.64	0.50
18:R1:531:ILE:CG2	18:R1:580:PHE:CE1	2.94	0.50
18:R1:539:LEU:HD13	18:R1:539:LEU:C	2.31	0.50
18:R1:543:VAL:HG12	18:R1:594:ILE:HD13	1.92	0.50
18:R1:674:ALA:HB3	18:R1:676:LYS:HG2	1.92	0.50
20:S2:153:LYS:HA	21:T2:261:SER:CB	2.40	0.50
20:S2:374:LYS:O	20:S2:377:GLU:HB2	2.11	0.50
21:T2:62:ALA:HB2	21:T2:107:TRP:CE2	2.46	0.50
22:U1:242:ILE:O	27:Z1:653:GLN:O	2.30	0.50
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CG	2.23	0.50
25:X2:687:GLU:CD	27:Z2:448:GLN:HA	2.32	0.50
25:X2:778:LYS:CE	25:X2:794:ILE:HG13	2.33	0.50
26:Y1:1211:LEU:N	26:Y1:1211:LEU:CG	2.72	0.50
26:Y1:1284:THR:OG1	27:Z1:578:ARG:HG3	2.11	0.50
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:CD1	2.94	0.50
26:Y2:1405:GLN:HA	26:Y2:1408:ARG:HD2	1.94	0.50
27:Z1:124:LYS:HE3	27:Z1:125:SER:HA	1.87	0.50
27:Z1:158:ASN:CG	27:Z1:161:GLU:OE2	2.49	0.50
27:Z1:582:GLU:OE1	27:Z1:582:GLU:CA	2.54	0.50
27:Z2:52:SER:O	27:Z2:53:LEU:HD23	2.11	0.50
27:Z2:249:VAL:HA	27:Z2:252:GLN:HG2	1.92	0.50
27:Z2:371:GLY:O	27:Z2:386:PHE:CD1	2.63	0.50
27:Z2:380:ILE:HG21	27:Z2:382:GLN:HE21	1.74	0.50
1:A1:777:LEU:HD13	1:A1:822:ILE:HD11	1.89	0.50
1:A1:785:ILE:HD11	1:A1:825:ARG:CG	2.38	0.50
1:A2:1230:TYR:CD2	1:A1:590:SER:C	2.84	0.50
4:D3:1057:GLN:CG	4:D3:1080:LEU:HD13	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:1267:ARG:NH2	15:O2:257:ALA:HB3	2.26	0.50
9:I1:1254:VAL:HG22	15:O1:259:ASP:N	2.25	0.50
9:I1:1543:LEU:CD2	10:J2:300:ILE:CG2	2.63	0.50
9:I2:925:LEU:O	15:O3:183:VAL:N	2.44	0.50
17:Q1:72:LEU:HD12	17:Q1:110:ILE:HG21	1.92	0.50
17:Q1:228:ILE:HG13	17:Q1:228:ILE:O	2.10	0.50
17:Q1:671:ASN:HA	17:Q1:743:LEU:CD1	2.40	0.50
17:Q1:699:MET:HB3	17:Q1:709:PHE:HE2	1.76	0.50
17:Q1:759:TRP:CZ3	17:Q1:775:ILE:HG23	2.46	0.50
17:Q1:957:GLU:CD	17:Q1:997:VAL:HG22	2.32	0.50
17:Q2:242:LEU:HD23	17:Q2:242:LEU:N	2.20	0.50
17:Q2:395:PHE:CB	17:Q2:421:PRO:HG3	2.42	0.50
17:Q2:746:VAL:HG22	17:Q2:750:TYR:CE2	2.41	0.50
17:Q2:1097:GLU:HG3	17:Q2:1098:THR:N	2.25	0.50
18:R1:533:LEU:CG	18:R1:537:PHE:CE2	2.94	0.50
18:R1:615:THR:HG23	18:R1:616:LEU:N	2.25	0.50
18:R1:711:LEU:CA	18:R1:714:TYR:CE2	2.94	0.50
19:R2:668:HIS:O	19:R2:672:VAL:HG23	2.10	0.50
20:S1:281:ILE:HB	20:S1:301:LEU:HD21	1.93	0.50
20:S1:435:LEU:O	20:S1:439:VAL:HG23	2.11	0.50
21:T1:259:ARG:HB2	21:T1:272:SER:HB2	1.93	0.50
21:T2:138:PRO:HB2	21:T2:140:ILE:HD11	1.93	0.50
23:V1:107:TYR:CZ	23:V1:111:LEU:HD11	2.46	0.50
25:X1:814:LEU:CD2	25:X1:817:GLN:OE1	2.52	0.50
25:X2:707:LEU:CD1	26:Y2:1306:ILE:CG1	2.49	0.50
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:HG13	1.67	0.50
27:Z1:328:PHE:HB3	27:Z1:351:ILE:CD1	2.42	0.50
27:Z1:381:ILE:CD1	27:Z1:424:PRO:CG	2.86	0.50
27:Z1:538:ARG:NH1	27:Z2:543:GLN:O	2.44	0.50
27:Z1:544:THR:CA	27:Z2:558:PHE:CD2	2.65	0.50
27:Z2:274:LYS:O	27:Z2:274:LYS:CG	2.59	0.50
27:Z2:387:MET:O	27:Z2:387:MET:HG3	2.11	0.50
1:A2:1272:GLY:HA3	1:A1:645:PHE:HD1	1.77	0.50
1:A3:1402:ASP:HB2	4:D3:821:GLU:CD	2.31	0.50
4:D1:692:ILE:HD13	5:E1:77:PHE:CE2	2.45	0.50
4:D2:1057:GLN:CG	4:D2:1080:LEU:HD13	2.40	0.50
6:F1:140:GLU:C	9:I1:1394:ASN:N	2.65	0.50
6:F1:143:GLY:O	9:I1:1397:GLY:N	2.45	0.50
6:F1:1265:GLN:OE1	15:O2:248:SER:OG	2.28	0.50
9:I1:901:TYR:CD1	13:M1:573:ARG:NH1	2.80	0.50
9:I2:902:GLN:OE1	13:M3:580:LYS:CA	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J2:249:ASP:OD2	14:N3:431:VAL:HG11	2.05	0.50
17:Q1:98:LEU:HB2	17:Q1:107:ILE:HG22	1.93	0.50
17:Q1:165:ILE:CD1	17:Q1:174:TYR:CD1	2.94	0.50
17:Q1:465:LEU:HD13	17:Q1:465:LEU:C	2.32	0.50
17:Q1:520:ILE:HG23	17:Q1:521:SER:N	2.27	0.50
17:Q1:573:LYS:HG3	17:Q1:574:ASN:H	1.76	0.50
17:Q1:1071:PRO:HA	17:Q1:1074:ASN:O	2.11	0.50
17:Q2:509:ALA:CB	17:Q2:570:PHE:CD1	2.94	0.50
17:Q2:671:ASN:HA	17:Q2:743:LEU:CD1	2.41	0.50
17:Q2:1011:ASP:OD2	17:Q2:1013:GLU:HG3	2.12	0.50
18:R1:674:ALA:O	18:R1:675:ALA:HB3	2.12	0.50
19:R2:527:VAL:CG1	19:R2:557:GLU:HG3	2.41	0.50
22:U1:185:VAL:N	27:Z1:664:ARG:HH22	1.95	0.50
22:U1:207:LYS:HB2	27:Z1:662:LEU:C	2.30	0.50
22:U2:308:TRP:CD1	23:V2:66:PRO:HA	2.46	0.50
24:W1:190:ASP:OD2	24:W1:191:GLY:N	2.44	0.50
25:X1:790:ASN:HB2	27:Z1:669:THR:C	2.25	0.50
25:X2:665:TRP:HH2	27:Z2:556:GLN:CA	2.23	0.50
25:X2:788:ASP:O	25:X2:792:GLN:NE2	2.45	0.50
25:X2:800:HIS:CD2	27:Z2:694:ILE:CD1	2.92	0.50
26:Y2:1366:LEU:HA	26:Y2:1383:ALA:C	2.30	0.50
26:Y2:1443:MET:HE3	27:Z2:332:GLU:OE1	0.68	0.50
27:Z1:179:VAL:HG23	27:Z1:281:VAL:HG21	1.93	0.50
27:Z1:305:ILE:CG2	27:Z1:386:PHE:CZ	2.89	0.50
27:Z1:533:LYS:O	27:Z1:537:GLN:HG2	2.12	0.50
27:Z1:642:ASN:CA	27:Z1:642:ASN:C	2.76	0.50
27:Z2:448:GLN:CD	27:Z2:573:LYS:HZ1	2.10	0.50
1:A1:862:LEU:CD1	1:A1:904:GLN:HB3	2.41	0.50
1:A1:1277:TRP:N	1:A1:1278:PRO:CD	2.75	0.50
1:A3:1083:SER:OG	4:D3:1096:TYR:CD2	2.51	0.50
1:A3:1277:TRP:N	1:A3:1278:PRO:CD	2.75	0.50
4:D3:569:GLU:HA	4:D3:572:GLN:HG2	1.93	0.50
7:G1:254:ASN:HB2	14:N2:400:LEU:HD12	1.94	0.50
9:I1:899:LEU:C	13:M1:580:LYS:HD3	2.12	0.50
9:I1:1254:VAL:CG2	15:O1:258:GLU:C	2.78	0.50
9:I2:914:ASN:CA	15:O3:194:GLU:CA	2.52	0.50
9:I2:1172:TYR:HB2	15:O3:273:ASP:CG	2.30	0.50
17:Q1:316:ILE:HG13	17:Q1:331:LEU:HD21	1.93	0.50
17:Q1:395:PHE:CB	17:Q1:421:PRO:HG3	2.42	0.50
17:Q1:545:TYR:CD2	17:Q1:546:ILE:CD1	2.94	0.50
17:Q1:564:PHE:CZ	17:Q1:588:ILE:CD1	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:646:PHE:CE2	17:Q1:669:VAL:CB	2.94	0.50
17:Q1:805:ALA:HB2	17:Q1:815:VAL:HG11	1.93	0.50
17:Q2:178:ILE:HG23	17:Q2:179:ASN:N	2.26	0.50
17:Q2:210:LEU:HD12	17:Q2:270:LEU:CG	2.41	0.50
17:Q2:520:ILE:HG23	17:Q2:521:SER:N	2.27	0.50
17:Q2:549:MET:CE	17:Q2:629:LEU:H	2.24	0.50
17:Q2:805:ALA:HB2	17:Q2:815:VAL:HG11	1.93	0.50
17:Q2:887:TRP:HB2	17:Q2:903:LEU:HD21	1.92	0.50
18:R1:50:ALA:HB1	18:R1:69:GLU:HG3	1.93	0.50
18:R1:690:PHE:CZ	18:R1:694:VAL:CG2	2.95	0.50
19:R2:550:MET:CB	19:R2:587:TYR:CE2	2.95	0.50
19:R2:555:ILE:HG23	19:R2:556:GLY:N	2.27	0.50
22:U1:293:GLN:CG	26:Y1:1371:VAL:CG2	2.81	0.50
22:U2:218:ILE:HG22	22:U2:233:THR:HG22	1.94	0.50
23:V1:218:GLU:HA	23:V1:220:ASP:N	2.27	0.50
23:V2:60:LYS:C	23:V2:62:GLY:H	2.14	0.50
24:W2:288:VAL:HG13	24:W2:336:LEU:HD22	1.93	0.50
24:W2:466:TYR:HB3	24:W2:470:ILE:HB	1.92	0.50
25:X1:789:GLU:HG3	27:Z1:680:TRP:CD1	2.31	0.50
25:X1:802:ASP:CB	26:Y1:1371:VAL:HG13	2.42	0.50
25:X2:747:THR:HG22	25:X2:751:LEU:CD1	2.42	0.50
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:CG	2.14	0.50
27:Z1:233:MET:HA	27:Z1:236:SER:OG	2.12	0.50
27:Z1:389:TRP:HZ3	27:Z1:393:LEU:CD1	2.12	0.50
27:Z1:396:CYS:O	27:Z1:400:SER:N	2.40	0.50
27:Z2:23:PRO:CB	27:Z2:24:ARG:H	2.22	0.50
27:Z2:217:LEU:HD22	27:Z2:269:LYS:CD	1.98	0.50
27:Z2:319:PHE:HD2	27:Z2:323:SER:O	1.93	0.50
1:A2:1277:TRP:N	1:A2:1278:PRO:CD	2.75	0.50
1:A3:1242:THR:HG21	1:A3:1248:ILE:HD11	1.93	0.50
1:A3:1333:ARG:HD2	4:D3:880:ASP:OD1	2.12	0.50
4:D4:972:TRP:CZ2	4:D4:980:ARG:HD3	2.45	0.50
6:F1:161:ALA:O	9:I1:1335:LYS:HB2	2.12	0.50
7:G1:247:ASP:N	13:M2:594:LYS:HG2	2.25	0.50
7:G1:251:TYR:O	15:O2:246:LEU:HB3	2.12	0.50
9:I1:920:PHE:N	15:O1:191:ARG:HH22	2.07	0.50
9:I1:1254:VAL:CG2	15:O1:259:ASP:CA	2.90	0.50
9:I2:959:SER:O	16:P3:151:LYS:CD	2.59	0.50
9:I2:1046:HIS:ND1	14:N3:289:PHE:CZ	2.80	0.50
17:Q1:165:ILE:HD13	17:Q1:174:TYR:HD1	1.77	0.50
17:Q1:384:ASN:OD1	17:Q1:508:ASN:CB	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:385:THR:CG2	17:Q1:507:ILE:HG21	2.36	0.50
17:Q1:629:LEU:HB3	17:Q1:631:THR:N	2.26	0.50
17:Q2:133:ALA:HB1	17:Q2:168:LYS:HZ1	1.76	0.50
17:Q2:361:TYR:HE2	17:Q2:387:MET:HG2	1.75	0.50
17:Q2:617:THR:HG23	17:Q2:618:LEU:N	2.26	0.50
17:Q2:645:ILE:HD12	17:Q2:645:ILE:O	2.11	0.50
17:Q2:824:ASN:N	17:Q2:827:THR:HB	2.27	0.50
17:Q2:1005:LEU:HD13	17:Q2:1005:LEU:C	2.32	0.50
17:Q2:1062:VAL:CG1	17:Q2:1140:VAL:HG21	2.41	0.50
18:R1:508:MET:O	18:R1:512:TYR:HD2	1.93	0.50
20:S1:186:PHE:CD1	20:S1:487:LEU:HD11	2.46	0.50
20:S2:389:THR:O	20:S2:393:GLY:HA3	2.10	0.50
21:T2:117:LEU:HB2	21:T2:153:TRP:HE1	1.75	0.50
22:U1:117:ALA:HB3	22:U1:124:LYS:HB3	1.93	0.50
22:U1:296:LEU:CA	27:Z1:657:TYR:CA	2.65	0.50
23:V2:107:TYR:CZ	23:V2:111:LEU:HD11	2.47	0.50
25:X2:769:ILE:HD11	27:Z2:655:LEU:HD13	1.94	0.50
26:Y1:1345:LEU:CB	26:Y1:1348:LYS:HE2	2.41	0.50
26:Y2:1336:THR:O	26:Y2:1340:ARG:CG	2.58	0.50
27:Z1:225:LEU:O	27:Z1:229:LYS:HG3	2.12	0.50
27:Z1:249:VAL:HA	27:Z1:252:GLN:HG2	1.92	0.50
27:Z2:90:VAL:HG11	27:Z2:156:ILE:HD13	1.92	0.50
27:Z2:233:MET:HE1	27:Z2:334:SER:CB	2.38	0.50
27:Z2:328:PHE:HB3	27:Z2:351:ILE:CD1	2.42	0.50
1:A2:862:LEU:CD1	1:A2:904:GLN:HB3	2.41	0.50
1:A2:1196:GLU:O	1:A1:591:ASP:C	2.50	0.50
1:A3:945:ARG:HH21	9:I2:817:ASP:CB	2.15	0.50
1:A4:623:SER:HG	4:D3:977:GLU:H	1.46	0.50
4:D1:1030:ALA:HB1	1:A1:633:MET:HE1	1.92	0.50
4:D2:1043:VAL:N	4:D2:1044:PRO:CD	2.75	0.50
6:F1:138:ILE:CG2	9:I1:1392:VAL:HG22	2.39	0.50
6:F1:153:LEU:HD23	9:I1:1395:LEU:HD23	1.86	0.50
6:F2:139:GLN:HB3	9:I2:1340:LEU:HD23	1.87	0.50
7:G1:254:ASN:HD21	15:O2:250:LEU:N	2.08	0.50
9:I1:909:ARG:C	13:M1:548:LEU:HD21	2.07	0.50
9:I1:921:GLU:N	15:O1:190:ARG:NH2	2.57	0.50
9:I1:980:ILE:HD12	15:O1:172:ALA:HA	1.85	0.50
9:I2:1034:ASP:CA	15:O3:284:LYS:HG2	2.41	0.50
9:I2:1035:GLN:CB	16:P3:147:LEU:HB3	2.28	0.50
17:Q1:506:LYS:HZ3	17:Q1:538:ILE:HD11	1.77	0.50
17:Q1:631:THR:O	17:Q1:631:THR:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:169:GLY:O	17:Q2:170:SER:HB3	2.12	0.50
17:Q2:227:ARG:CD	17:Q2:229:PHE:CZ	2.94	0.50
17:Q2:531:LEU:HD12	17:Q2:531:LEU:N	2.27	0.50
17:Q2:545:TYR:CD2	17:Q2:546:ILE:CD1	2.94	0.50
17:Q2:567:PHE:O	17:Q2:570:PHE:HB3	2.11	0.50
17:Q2:584:LYS:HD3	17:Q2:709:PHE:CE2	2.46	0.50
17:Q2:699:MET:HB3	17:Q2:709:PHE:HE2	1.76	0.50
17:Q2:749:LEU:HG	17:Q2:807:PHE:CD1	2.46	0.50
17:Q2:836:PHE:CD2	17:Q2:842:GLU:CG	2.95	0.50
17:Q2:873:GLN:O	17:Q2:877:GLU:HG3	2.11	0.50
17:Q2:957:GLU:CD	17:Q2:997:VAL:HG22	2.32	0.50
17:Q2:959:ASN:HA	17:Q2:962:ASN:OD1	2.11	0.50
17:Q2:1016:PHE:CE2	17:Q2:1020:ARG:CG	2.95	0.50
17:Q2:1047:LEU:C	17:Q2:1047:LEU:HD13	2.32	0.50
18:R1:354:SER:O	18:R1:358:VAL:HG23	2.11	0.50
18:R1:580:PHE:CE2	18:R1:584:ILE:CD1	2.94	0.50
18:R1:668:HIS:O	18:R1:672:VAL:HG23	2.10	0.50
19:R2:233:THR:HG22	19:R2:234:GLN:O	2.12	0.50
19:R2:528:HIS:O	19:R2:531:ILE:HG12	2.12	0.50
19:R2:533:LEU:HD23	19:R2:549:PHE:CG	2.46	0.50
19:R2:690:PHE:CZ	19:R2:694:VAL:CG2	2.95	0.50
22:U1:288:LEU:HD22	25:X1:796:ILE:HG13	1.92	0.50
23:V1:156:GLU:HG2	23:V1:179:LEU:CD2	2.41	0.50
25:X1:644:TRP:CD1	25:X1:648:LEU:CD1	2.88	0.50
25:X1:658:TYR:CD1	26:Y1:1239:PHE:CE1	3.00	0.50
25:X2:650:GLU:C	25:X2:654:HIS:CE1	2.83	0.50
25:X2:692:LYS:HD3	27:Z2:10:LEU:HB3	1.93	0.50
25:X2:819:ASN:OD1	25:X2:822:LYS:HD2	2.12	0.50
26:Y2:1280:GLN:HB3	27:Z2:578:ARG:NH2	2.27	0.50
26:Y2:1317:TYR:HH	27:Z1:48:VAL:CG2	1.79	0.50
27:Z1:12:ILE:CD1	27:Z1:44:ARG:HB3	2.35	0.50
27:Z1:79:LEU:HD12	27:Z1:139:ASP:CB	2.42	0.50
27:Z1:179:VAL:HG13	27:Z1:198:ASN:ND2	2.26	0.50
27:Z1:342:TYR:O	27:Z1:342:TYR:CD2	2.64	0.50
27:Z2:533:LYS:O	27:Z2:537:GLN:HG2	2.12	0.50
1:A4:1051:THR:CB	4:D4:1096:TYR:CD2	2.93	0.50
6:F1:153:LEU:O	9:I1:1395:LEU:HD11	2.07	0.50
6:F1:158:PRO:CB	9:I1:1339:LEU:HB2	2.36	0.50
7:G2:249:ASP:HB3	15:O4:254:ARG:NE	2.13	0.50
9:I1:980:ILE:HG13	15:O1:172:ALA:CA	2.38	0.50
9:I1:1315:GLN:CG	15:O1:269:ILE:N	2.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:978:LYS:HA	15:O3:174:LEU:C	2.18	0.50
9:I2:1103:LEU:CD2	15:O3:275:LEU:HD22	2.32	0.50
9:I2:1106:LYS:CE	14:N3:430:ARG:NH1	2.56	0.50
17:Q1:414:THR:O	17:Q1:414:THR:HG23	2.12	0.50
17:Q1:444:GLU:CD	17:Q1:507:ILE:C	2.69	0.50
17:Q1:516:LEU:HB2	17:Q1:517:PRO:CD	2.39	0.50
17:Q1:528:GLU:C	17:Q1:579:ILE:HG21	2.32	0.50
17:Q1:749:LEU:CD1	17:Q1:807:PHE:CE1	2.95	0.50
17:Q2:165:ILE:HD13	17:Q2:174:TYR:HD1	1.77	0.50
17:Q2:538:ILE:HG23	17:Q2:539:PHE:N	2.26	0.50
17:Q2:705:LYS:HE3	17:Q2:710:ILE:HD13	1.94	0.50
17:Q2:759:TRP:CZ3	17:Q2:775:ILE:HG23	2.46	0.50
17:Q2:922:LEU:HD13	19:R2:689:ALA:HA	1.94	0.50
17:Q2:1057:LEU:HD13	17:Q2:1057:LEU:O	2.12	0.50
17:Q2:1071:PRO:HA	17:Q2:1074:ASN:O	2.11	0.50
17:Q2:1122:THR:HG23	17:Q2:1123:LEU:HD12	1.94	0.50
18:R1:550:MET:CB	18:R1:587:TYR:CE2	2.95	0.50
19:R2:550:MET:HB2	19:R2:587:TYR:HE2	1.76	0.50
19:R2:674:ALA:O	19:R2:675:ALA:HB3	2.11	0.50
20:S1:389:THR:O	20:S1:393:GLY:HA3	2.10	0.50
22:U1:289:GLN:HE22	25:X1:794:ILE:CG1	2.11	0.50
24:W1:288:VAL:HG13	24:W1:336:LEU:HD22	1.94	0.50
25:X1:655:PHE:HE2	27:Z1:546:GLY:N	2.10	0.50
25:X1:799:SER:HB3	26:Y1:1372:LYS:CB	2.41	0.50
25:X2:655:PHE:CZ	27:Z2:545:LEU:CA	2.93	0.50
25:X2:762:LEU:CD1	26:Y2:1352:VAL:HG13	2.42	0.50
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:CA	2.42	0.50
27:Z1:149:ASP:CB	27:Z1:182:ILE:HG22	2.42	0.50
27:Z2:149:ASP:CB	27:Z2:182:ILE:HG22	2.42	0.50
27:Z2:208:PHE:CD1	27:Z2:211:PHE:N	2.79	0.50
1:A2:1230:TYR:CE1	1:A1:590:SER:CA	2.59	0.50
1:A3:1222:ALA:O	1:A4:648:TYR:CZ	2.52	0.50
1:A3:1222:ALA:CB	1:A4:598:VAL:N	2.58	0.50
4:D3:1016:LEU:HD11	4:D3:1087:LEU:HD11	1.93	0.50
4:D3:1043:VAL:N	4:D3:1044:PRO:CD	2.75	0.50
6:F1:272:GLU:OE1	9:I1:1210:ILE:HG22	2.12	0.50
9:I1:904:GLU:O	13:M1:572:GLU:OE2	2.22	0.50
9:I1:1034:ASP:OD1	9:I1:1035:GLN:N	2.44	0.50
9:I1:1606:GLU:O	9:I2:1669:ARG:NH2	2.34	0.50
9:I2:892:HIS:ND1	13:M3:588:MET:O	2.33	0.50
9:I2:1032:THR:N	13:M3:618:GLN:CA	2.56	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:69:VAL:HG23	17:Q1:69:VAL:O	2.10	0.50
17:Q1:210:LEU:HD12	17:Q1:270:LEU:CG	2.41	0.50
17:Q1:678:TYR:CZ	17:Q1:682:LEU:HD11	2.47	0.50
17:Q1:897:ALA:HB2	17:Q1:934:VAL:HG21	1.94	0.50
17:Q1:1005:LEU:HD13	17:Q1:1005:LEU:C	2.31	0.50
17:Q1:1021:LEU:HD22	17:Q1:1025:ASP:OD2	2.11	0.50
17:Q2:61:PHE:CE1	17:Q2:71:THR:CG2	2.95	0.50
17:Q2:359:THR:OG1	17:Q2:387:MET:HB2	2.12	0.50
17:Q2:564:PHE:CZ	17:Q2:588:ILE:CD1	2.94	0.50
17:Q2:887:TRP:HB2	17:Q2:903:LEU:CD2	2.42	0.50
18:R1:511:ILE:HG23	18:R1:512:TYR:N	2.24	0.50
18:R1:550:MET:HB2	18:R1:587:TYR:HE2	1.77	0.50
18:R1:580:PHE:CE2	18:R1:584:ILE:CG1	2.95	0.50
19:R2:531:ILE:CG2	19:R2:580:PHE:CE1	2.94	0.50
19:R2:650:GLU:CA	19:R2:653:TYR:CE2	2.95	0.50
23:V2:228:PHE:HE2	23:V2:267:ARG:HB3	1.77	0.50
24:W1:53:GLY:HA2	24:W1:73:SER:HA	1.94	0.50
25:X1:747:THR:HG22	25:X1:751:LEU:CD1	2.42	0.50
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:CB	2.83	0.50
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:HZ	0.51	0.50
27:Z1:26:ILE:CG2	27:Z1:26:ILE:O	2.60	0.50
27:Z1:74:SER:OG	27:Z1:139:ASP:OD1	2.26	0.50
27:Z1:305:ILE:HD13	27:Z1:365:THR:HG21	1.93	0.50
27:Z1:383:GLN:CD	27:Z1:417:ILE:CG2	2.80	0.50
27:Z1:531:ILE:CD1	27:Z2:541:LYS:HG2	2.39	0.50
27:Z1:537:GLN:O	27:Z2:551:ASN:CB	2.60	0.50
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CZ	2.47	0.50
27:Z2:312:ASN:ND2	27:Z2:397:ILE:HD12	2.20	0.50
1:A2:1204:TRP:CZ3	1:A1:607:ARG:NH2	2.80	0.50
1:A2:1220:PRO:HB3	1:A1:595:GLU:HG2	1.93	0.50
1:A3:777:LEU:HD13	1:A3:822:ILE:HD11	1.90	0.50
4:D3:1014:LEU:HB2	4:D3:1016:LEU:HD13	1.93	0.50
6:F1:990:GLN:CG	9:I1:1394:ASN:HD22	2.21	0.50
6:F1:1392:LEU:N	6:F1:1393:PRO:HD2	2.27	0.50
9:I2:892:HIS:O	13:M3:588:MET:HG3	2.12	0.50
9:I2:963:LEU:N	16:P3:151:LYS:HD3	2.16	0.50
17:Q1:62:THR:HB	17:Q1:69:VAL:HG22	1.94	0.50
17:Q1:793:CYS:HA	17:Q1:796:ASN:ND2	2.27	0.50
17:Q1:928:LYS:CE	18:R1:695:ALA:CB	2.76	0.50
17:Q2:136:PRO:HB2	17:Q2:166:ILE:HG23	1.92	0.50
17:Q2:165:ILE:CD1	17:Q2:174:TYR:HD1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:247:LEU:N	17:Q2:247:LEU:HD12	2.26	0.50
17:Q2:285:ILE:HD12	17:Q2:285:ILE:N	2.26	0.50
17:Q2:332:LYS:HD2	17:Q2:332:LYS:C	2.32	0.50
17:Q2:827:THR:HA	17:Q2:830:SER:OG	2.11	0.50
17:Q2:847:LEU:CA	17:Q2:876:GLN:HE22	2.25	0.50
18:R1:442:LEU:CD1	18:R1:470:LEU:HD21	2.42	0.50
18:R1:677:LEU:N	18:R1:677:LEU:HD22	2.27	0.50
19:R2:354:SER:O	19:R2:358:VAL:HG23	2.11	0.50
19:R2:539:LEU:HD13	19:R2:539:LEU:C	2.31	0.50
23:V2:218:GLU:HA	23:V2:220:ASP:N	2.27	0.50
24:W1:258:ASP:OD1	24:W1:260:VAL:HG22	2.11	0.50
24:W2:190:ASP:OD2	24:W2:191:GLY:N	2.44	0.50
25:X1:819:ASN:OD1	25:X1:822:LYS:HD2	2.12	0.50
25:X2:695:GLN:NE2	27:Z2:431:TRP:CD1	2.64	0.50
26:Y1:1280:GLN:HB3	27:Z1:578:ARG:NH2	2.27	0.50
26:Y1:1295:VAL:N	27:Z1:588:TRP:CZ3	2.74	0.50
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:CD1	2.39	0.50
27:Z1:15:ALA:CB	27:Z1:16:SER:N	2.49	0.50
27:Z1:93:VAL:O	27:Z1:94:PRO:CG	2.53	0.50
27:Z1:208:PHE:CD1	27:Z1:211:PHE:N	2.79	0.50
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CZ	2.47	0.50
27:Z1:324:LEU:N	27:Z1:354:VAL:O	2.32	0.50
27:Z1:387:MET:HG3	27:Z1:387:MET:O	2.11	0.50
27:Z1:395:LYS:HE3	27:Z2:267:PHE:CE1	2.46	0.50
27:Z2:41:ASN:HD21	27:Z2:59:PHE:C	2.15	0.50
27:Z2:179:VAL:HG23	27:Z2:281:VAL:HG21	1.94	0.50
27:Z2:218:LEU:O	27:Z2:263:TRP:CZ2	2.65	0.50
27:Z2:352:GLU:CD	27:Z2:410:PHE:HZ	2.10	0.50
27:Z2:709:THR:O	27:Z2:709:THR:CG2	2.59	0.50
1:A2:1242:THR:HG21	1:A2:1248:ILE:HD11	1.93	0.49
1:A4:785:ILE:HD11	1:A4:825:ARG:CG	2.38	0.49
4:D2:1016:LEU:HD11	4:D2:1087:LEU:HD11	1.93	0.49
6:F2:1267:ARG:HG3	15:O4:259:ASP:OD1	2.12	0.49
9:I2:891:LEU:C	13:M3:591:ASP:H	1.49	0.49
9:I2:960:SER:OG	16:P3:154:ALA:CB	2.52	0.49
9:I2:1255:HIS:NE2	14:N3:407:ALA:CB	1.74	0.49
17:Q1:268:VAL:CG1	17:Q1:335:ASP:HA	2.42	0.49
17:Q1:546:ILE:HB	17:Q1:548:PRO:HD2	1.94	0.49
17:Q1:584:LYS:HD3	17:Q1:709:PHE:CE2	2.46	0.49
17:Q1:612:ASP:HB2	17:Q1:642:PHE:CE1	2.47	0.49
17:Q1:649:PHE:CE2	17:Q1:653:VAL:CG2	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:887:TRP:HB2	17:Q1:903:LEU:CD2	2.42	0.49
17:Q1:1047:LEU:C	17:Q1:1047:LEU:HD13	2.32	0.49
17:Q2:268:VAL:CG1	17:Q2:335:ASP:HA	2.42	0.49
17:Q2:414:THR:O	17:Q2:414:THR:HG23	2.12	0.49
17:Q2:465:LEU:HD13	17:Q2:465:LEU:C	2.32	0.49
17:Q2:564:PHE:HZ	17:Q2:588:ILE:CD1	2.21	0.49
17:Q2:573:LYS:HG3	17:Q2:574:ASN:H	1.75	0.49
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:CB	2.17	0.49
17:Q2:629:LEU:HB3	17:Q2:631:THR:N	2.26	0.49
17:Q2:636:ILE:HG23	17:Q2:637:ASN:ND2	2.27	0.49
17:Q2:678:TYR:CZ	17:Q2:682:LEU:HD11	2.47	0.49
18:R1:650:GLU:CA	18:R1:653:TYR:CE2	2.95	0.49
19:R2:613:ILE:N	19:R2:614:PRO:HD2	2.27	0.49
20:S1:374:LYS:O	20:S1:377:GLU:HB2	2.11	0.49
20:S2:435:LEU:O	20:S2:439:VAL:HG23	2.11	0.49
22:U1:247:GLU:HB2	25:X1:805:ARG:HH12	1.77	0.49
23:V1:228:PHE:HE2	23:V1:267:ARG:HB3	1.77	0.49
23:V1:306:TRP:O	23:V1:310:VAL:HG23	2.11	0.49
23:V2:158:PHE:O	23:V2:162:VAL:HG23	2.12	0.49
23:V2:306:TRP:O	23:V2:310:VAL:HG23	2.12	0.49
25:X2:687:GLU:CD	27:Z2:448:GLN:CA	2.78	0.49
26:Y1:1284:THR:OG1	27:Z1:578:ARG:CG	2.60	0.49
26:Y1:1406:VAL:HG21	27:Z1:704:VAL:HG13	1.93	0.49
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:HD3	2.27	0.49
26:Y2:1277:LYS:HE3	27:Z2:570:ILE:C	2.32	0.49
27:Z1:41:ASN:HD21	27:Z1:59:PHE:C	2.15	0.49
27:Z1:136:SER:O	27:Z1:217:LEU:HG	2.12	0.49
27:Z1:252:GLN:OE1	27:Z1:334:SER:CA	2.59	0.49
27:Z1:630:TRP:CD1	27:Z1:634:ILE:HD12	2.47	0.49
27:Z2:35:ILE:HD11	27:Z2:429:ILE:HD13	1.72	0.49
27:Z2:158:ASN:CG	27:Z2:161:GLU:OE2	2.50	0.49
27:Z2:182:ILE:CB	27:Z2:198:ASN:OD1	2.59	0.49
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HD21	1.93	0.49
4:D4:1043:VAL:N	4:D4:1044:PRO:CD	2.75	0.49
9:I2:1030:ARG:HB2	13:M3:612:PRO:HA	1.94	0.49
9:I2:1425:TYR:OH	9:I2:1482:ASP:OD2	2.23	0.49
15:O4:142:PHE:HA	15:O4:145:ILE:HG22	1.94	0.49
17:Q1:247:LEU:N	17:Q1:247:LEU:HD12	2.26	0.49
17:Q1:332:LYS:HD2	17:Q1:332:LYS:C	2.32	0.49
17:Q1:419:MET:HE3	17:Q1:465:LEU:HD11	1.92	0.49
17:Q1:509:ALA:HB1	17:Q1:570:PHE:HD1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:531:LEU:HD12	17:Q1:531:LEU:N	2.27	0.49
17:Q1:684:GLU:HA	17:Q1:688:THR:HG1	1.77	0.49
17:Q1:1104:ILE:HG22	17:Q1:1105:ASP:N	2.27	0.49
17:Q2:633:THR:O	17:Q2:636:ILE:HG22	2.12	0.49
17:Q2:678:TYR:CE2	17:Q2:682:LEU:CD1	2.95	0.49
17:Q2:897:ALA:HB2	17:Q2:934:VAL:HG21	1.94	0.49
18:R1:700:LYS:HG3	18:R1:703:LEU:HG	1.94	0.49
19:R2:667:LEU:HD22	19:R2:670:LYS:HE3	1.93	0.49
21:T2:57:TRP:HD1	21:T2:102:VAL:O	1.95	0.49
22:U1:67:GLU:OE1	22:U1:119:ALA:HB1	2.12	0.49
25:X1:769:ILE:HD11	27:Z1:655:LEU:HD13	1.94	0.49
25:X2:770:ASN:OD1	25:X2:801:PHE:CE2	2.65	0.49
25:X2:789:GLU:N	25:X2:790:ASN:N	2.60	0.49
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HD11	2.34	0.49
27:Z2:225:LEU:O	27:Z2:229:LYS:HG3	2.11	0.49
27:Z2:233:MET:HA	27:Z2:236:SER:OG	2.12	0.49
27:Z2:410:PHE:O	27:Z2:410:PHE:CG	2.33	0.49
1:A3:871:ASN:CB	4:D1:515:ASN:CG	2.80	0.49
1:A4:1242:THR:HG21	1:A4:1248:ILE:HD11	1.93	0.49
6:F1:158:PRO:HG3	9:I1:1340:LEU:HB2	1.94	0.49
6:F1:272:GLU:CB	9:I1:1209:THR:N	2.76	0.49
9:I1:1644:ARG:CD	10:J1:275:PHE:CZ	2.96	0.49
9:I2:1083:GLU:OE1	9:I2:1083:GLU:N	2.42	0.49
9:I2:1105:TRP:HB2	15:O3:276:GLY:O	2.10	0.49
15:O2:142:PHE:HA	15:O2:145:ILE:HG22	1.95	0.49
17:Q1:376:THR:HG22	17:Q1:377:ILE:N	2.27	0.49
17:Q1:538:ILE:HG23	17:Q1:539:PHE:N	2.26	0.49
17:Q1:639:PRO:O	17:Q1:643:PRO:HD2	2.12	0.49
17:Q1:645:ILE:HD12	17:Q1:645:ILE:O	2.11	0.49
17:Q1:658:PHE:HB2	17:Q1:659:PRO:CD	2.42	0.49
17:Q1:824:ASN:N	17:Q1:827:THR:HB	2.27	0.49
17:Q1:934:VAL:HG22	17:Q1:935:GLU:H	1.77	0.49
17:Q1:989:GLU:O	17:Q1:992:LYS:HG2	2.12	0.49
17:Q2:405:GLU:OE1	17:Q2:405:GLU:HA	2.13	0.49
17:Q2:509:ALA:HB1	17:Q2:570:PHE:HD1	1.77	0.49
17:Q2:528:GLU:C	17:Q2:579:ILE:HG21	2.32	0.49
17:Q2:612:ASP:HB2	17:Q2:642:PHE:CE1	2.48	0.49
17:Q2:658:PHE:HB2	17:Q2:659:PRO:CD	2.42	0.49
17:Q2:705:LYS:CA	17:Q2:710:ILE:HD12	2.40	0.49
17:Q2:961:SER:HB2	17:Q2:991:LEU:HD22	1.91	0.49
18:R1:233:THR:HG22	18:R1:234:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:527:VAL:CG2	19:R2:580:PHE:CG	2.95	0.49
19:R2:580:PHE:CE2	19:R2:584:ILE:CG1	2.95	0.49
20:S1:558:ASN:CB	21:T1:86:ASN:HA	2.42	0.49
20:S2:397:GLU:OE1	20:S2:397:GLU:N	2.40	0.49
24:W1:403:ASP:H	24:W1:723:PHE:C	1.77	0.49
25:X1:808:ASP:OD2	26:Y1:1395:LEU:HD11	2.12	0.49
25:X2:726:VAL:HG13	25:X2:727:SER:N	2.25	0.49
25:X2:776:PHE:CE2	26:Y2:1369:PHE:HE1	2.30	0.49
26:Y2:1435:LYS:CE	27:Z2:225:LEU:HD21	2.24	0.49
27:Z1:35:ILE:HG21	27:Z1:46:TYR:CE2	2.34	0.49
27:Z1:158:ASN:HB2	27:Z1:161:GLU:HG3	1.88	0.49
27:Z1:218:LEU:HD12	27:Z1:223:LEU:CD2	2.17	0.49
27:Z1:218:LEU:O	27:Z1:263:TRP:CZ2	2.65	0.49
27:Z1:541:LYS:CA	27:Z2:555:GLU:H	2.13	0.49
7:G1:253:SER:HB2	13:M2:595:MET:HE3	1.93	0.49
9:I2:894:VAL:CB	13:M3:587:GLU:CG	2.66	0.49
9:I2:1112:SER:HB3	10:J2:241:THR:CB	2.42	0.49
9:I2:1644:ARG:CD	10:J2:275:PHE:CZ	2.96	0.49
10:J1:257:THR:OG1	14:N1:428:ASP:OD2	2.23	0.49
15:O3:142:PHE:HA	15:O3:145:ILE:HG22	1.94	0.49
17:Q1:169:GLY:O	17:Q1:170:SER:HB3	2.12	0.49
17:Q1:513:ASP:O	17:Q1:517:PRO:HD2	2.12	0.49
17:Q1:633:THR:O	17:Q1:636:ILE:HG22	2.12	0.49
17:Q1:636:ILE:HG23	17:Q1:637:ASN:ND2	2.27	0.49
17:Q1:847:LEU:CA	17:Q1:876:GLN:HE22	2.25	0.49
17:Q1:969:VAL:CG1	17:Q1:1009:LEU:HD22	2.43	0.49
17:Q1:1057:LEU:HD13	17:Q1:1057:LEU:C	2.33	0.49
17:Q1:1057:LEU:HD13	17:Q1:1057:LEU:O	2.12	0.49
17:Q2:196:LEU:HD13	17:Q2:196:LEU:C	2.33	0.49
17:Q2:463:LYS:O	17:Q2:478:PHE:HD1	1.94	0.49
17:Q2:513:ASP:O	17:Q2:517:PRO:HD2	2.12	0.49
17:Q2:564:PHE:HE2	17:Q2:568:LEU:HD11	1.73	0.49
17:Q2:639:PRO:O	17:Q2:643:PRO:HD2	2.12	0.49
17:Q2:1057:LEU:HD13	17:Q2:1057:LEU:C	2.33	0.49
18:R1:457:VAL:HG12	18:R1:461:GLN:HG3	1.94	0.49
18:R1:547:GLU:HB2	18:R1:591:ILE:HD11	1.95	0.49
18:R1:634:PHE:O	18:R1:656:ARG:HD3	2.12	0.49
19:R2:379:ILE:HG13	19:R2:385:LEU:HD23	1.94	0.49
19:R2:634:PHE:O	19:R2:656:ARG:HD3	2.12	0.49
22:U1:77:TYR:HA	22:U1:110:SER:HB3	1.95	0.49
22:U1:218:ILE:HG22	22:U1:233:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:60:LYS:C	23:V1:62:GLY:H	2.14	0.49
25:X1:648:LEU:CD1	27:Z2:547:VAL:HG12	2.36	0.49
26:Y1:1277:LYS:NZ	27:Z1:568:CYS:CA	2.69	0.49
26:Y2:1284:THR:OG1	27:Z2:578:ARG:CG	2.60	0.49
26:Y2:1345:LEU:CB	26:Y2:1348:LYS:HE2	2.41	0.49
26:Y2:1456:LEU:C	26:Y2:1456:LEU:N	2.65	0.49
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HD21	1.93	0.49
27:Z2:41:ASN:O	27:Z2:59:PHE:CD1	2.65	0.49
27:Z2:125:SER:OG	27:Z2:146:LYS:HD3	2.13	0.49
27:Z2:164:ILE:HD11	27:Z2:277:ARG:NH1	2.26	0.49
27:Z2:252:GLN:OE1	27:Z2:334:SER:CA	2.59	0.49
27:Z2:297:TYR:HB3	27:Z2:320:ASP:HB2	1.95	0.49
1:A2:1201:ARG:CA	1:A1:648:TYR:CZ	2.82	0.49
1:A2:1333:ARG:NH1	4:D1:1037:GLN:HG2	2.28	0.49
1:A3:871:ASN:CG	4:D1:515:ASN:CG	2.71	0.49
1:A3:1084:ARG:CB	4:D3:1095:ARG:NE	2.76	0.49
1:A3:1327:VAL:HA	4:D3:876:SER:CB	2.41	0.49
6:F1:179:GLU:OE2	9:I1:1201:PHE:HD1	1.91	0.49
6:F2:133:GLN:CB	9:I2:1388:GLU:OE1	2.58	0.49
9:I1:389:GLN:N	9:I1:389:GLN:OE1	2.46	0.49
9:I1:1112:SER:HB3	10:J1:241:THR:CB	2.43	0.49
9:I2:1035:GLN:CB	16:P3:147:LEU:CB	2.82	0.49
17:Q1:165:ILE:CD1	17:Q1:174:TYR:HD1	2.25	0.49
17:Q1:697:ASP:OD2	17:Q1:761:ASN:HB2	2.13	0.49
17:Q1:715:LEU:CD2	17:Q1:751:TYR:CE1	2.95	0.49
17:Q1:880:PRO:O	17:Q1:881:LYS:HB3	2.13	0.49
17:Q1:1066:PHE:CE2	17:Q1:1140:VAL:HG23	2.48	0.49
17:Q2:527:ILE:CG1	17:Q2:530:ASP:HB2	2.43	0.49
17:Q2:583:LEU:HG	17:Q2:584:LYS:N	2.28	0.49
17:Q2:646:PHE:CE2	17:Q2:669:VAL:CB	2.94	0.49
17:Q2:649:PHE:CE2	17:Q2:653:VAL:CG2	2.95	0.49
17:Q2:715:LEU:CD2	17:Q2:751:TYR:CE1	2.95	0.49
17:Q2:819:GLN:O	17:Q2:824:ASN:HB2	2.12	0.49
17:Q2:976:LYS:HG3	17:Q2:977:ASN:N	2.27	0.49
17:Q2:1066:PHE:CE2	17:Q2:1140:VAL:HG23	2.48	0.49
18:R1:533:LEU:CD2	18:R1:549:PHE:CE1	2.96	0.49
18:R1:613:ILE:N	18:R1:614:PRO:HD2	2.28	0.49
18:R1:714:TYR:HA	18:R1:717:LEU:HD12	1.94	0.49
19:R2:533:LEU:CD2	19:R2:549:PHE:CE1	2.96	0.49
19:R2:721:THR:O	19:R2:724:LEU:HD13	2.13	0.49
21:T1:57:TRP:HD1	21:T1:102:VAL:O	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:T1:214:PRO:HG2	21:T1:264:LEU:HA	1.93	0.49
22:U1:295:GLU:N	27:Z1:657:TYR:CE2	2.55	0.49
22:U1:296:LEU:HB2	27:Z1:656:SER:C	2.32	0.49
25:X1:665:TRP:HH2	27:Z1:556:GLN:CA	2.23	0.49
25:X2:693:ILE:HD12	27:Z2:7:LEU:HB2	1.94	0.49
26:Y1:1225:PHE:HB2	27:Z1:539:ILE:HD13	1.89	0.49
27:Z1:68:THR:O	27:Z1:84:ASN:CG	2.50	0.49
27:Z1:94:PRO:HG2	27:Z1:94:PRO:O	2.09	0.49
27:Z1:381:ILE:HG22	27:Z1:381:ILE:O	2.12	0.49
27:Z2:79:LEU:HD12	27:Z2:139:ASP:CB	2.42	0.49
27:Z2:641:PHE:CE2	27:Z2:645:VAL:CG2	2.96	0.49
1:A2:1277:TRP:CG	1:A1:642:ARG:CZ	2.93	0.49
1:A4:1036:ALA:HB1	1:A4:1043:ALA:HB2	1.95	0.49
6:F1:1000:LEU:HD12	6:F1:1001:ILE:HG23	1.93	0.49
6:F2:139:GLN:HB3	9:I2:1340:LEU:HD21	1.92	0.49
9:I1:917:TYR:CD1	13:M1:534:GLN:NE2	2.73	0.49
9:I1:1311:LEU:HD22	15:O1:266:GLN:HG3	1.94	0.49
9:I2:1026:TYR:HE1	13:M3:608:LYS:O	1.95	0.49
9:I2:1102:GLN:HG3	15:O3:272:SER:OG	2.13	0.49
9:I2:1103:LEU:HA	15:O3:275:LEU:CG	2.43	0.49
17:Q1:294:THR:HG21	17:Q1:308:ILE:HG12	1.93	0.49
17:Q1:332:LYS:CE	17:Q1:334:TRP:CE2	2.95	0.49
17:Q1:359:THR:OG1	17:Q1:387:MET:HB2	2.12	0.49
17:Q1:976:LYS:HG3	17:Q1:977:ASN:N	2.27	0.49
17:Q2:340:GLN:HG2	17:Q2:342:GLU:H	1.78	0.49
17:Q2:506:LYS:HD3	17:Q2:538:ILE:HD11	1.95	0.49
17:Q2:719:ASN:OD1	17:Q2:723:PHE:HE1	1.96	0.49
17:Q2:924:LEU:HG	17:Q2:947:ILE:HD11	1.95	0.49
17:Q2:934:VAL:HG22	17:Q2:935:GLU:H	1.77	0.49
17:Q2:1094:TYR:CZ	17:Q2:1098:THR:HG21	2.48	0.49
18:R1:555:ILE:HG23	18:R1:556:GLY:N	2.27	0.49
19:R2:714:TYR:HA	19:R2:717:LEU:HD12	1.94	0.49
21:T2:174:VAL:HA	21:T2:183:LYS:O	2.13	0.49
22:U1:30:ASP:OD1	22:U1:32:HIS:HB2	2.13	0.49
22:U2:67:GLU:OE1	22:U2:119:ALA:HB1	2.12	0.49
24:W1:522:ASN:O	24:W1:526:ARG:HG3	2.12	0.49
24:W2:53:GLY:HA2	24:W2:73:SER:HA	1.94	0.49
25:X1:710:PHE:HZ	26:Y1:1313:ALA:HB1	1.70	0.49
25:X1:778:LYS:C	25:X1:778:LYS:CD	2.80	0.49
25:X2:691:ASN:ND2	27:Z2:447:PHE:HD2	2.09	0.49
25:X2:695:GLN:N	27:Z2:431:TRP:HA	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1317:TYR:C	27:Z1:48:VAL:O	2.49	0.49
27:Z1:35:ILE:HD11	27:Z1:429:ILE:HD13	1.72	0.49
27:Z1:47:ASN:HD21	27:Z1:95:TRP:CH2	1.66	0.49
27:Z1:79:LEU:HD12	27:Z1:139:ASP:HB2	1.94	0.49
27:Z1:399:GLU:HB3	27:Z1:401:ASP:OD2	2.12	0.49
27:Z2:34:ARG:HB3	27:Z2:95:TRP:CH2	2.48	0.49
27:Z2:68:THR:C	27:Z2:84:ASN:ND2	2.66	0.49
27:Z2:252:GLN:CA	27:Z2:335:MET:CE	2.87	0.49
27:Z2:630:TRP:CD1	27:Z2:634:ILE:HD12	2.47	0.49
1:A2:1224:PRO:CD	1:A1:648:TYR:CZ	2.94	0.49
1:A2:1230:TYR:CZ	1:A1:590:SER:C	2.80	0.49
4:D1:1014:LEU:HB2	4:D1:1016:LEU:HD13	1.93	0.49
6:F1:140:GLU:HB2	9:I1:1389:GLN:O	2.13	0.49
7:G2:252:LEU:CB	15:O4:248:SER:HA	2.43	0.49
9:I1:839:TRP:N	15:O1:198:ARG:HH22	2.08	0.49
9:I1:1051:LYS:HB2	14:N1:293:LYS:CD	2.28	0.49
9:I2:389:GLN:N	9:I2:389:GLN:OE1	2.46	0.49
14:N1:464:LEU:CD1	14:N4:442:GLU:OE1	2.56	0.49
17:Q1:426:ILE:HD12	17:Q1:443:TRP:CH2	2.42	0.49
17:Q1:527:ILE:CG1	17:Q1:530:ASP:HB2	2.43	0.49
17:Q1:678:TYR:CE2	17:Q1:682:LEU:CD1	2.95	0.49
17:Q1:825:ASP:OD2	17:Q1:867:GLN:HB2	2.13	0.49
17:Q1:831:LEU:HD12	17:Q1:835:PHE:CB	2.43	0.49
17:Q1:902:THR:HG23	17:Q1:903:LEU:N	2.28	0.49
17:Q1:986:ILE:CG2	17:Q1:1102:PHE:HE1	2.25	0.49
17:Q1:1122:THR:HG23	17:Q1:1123:LEU:HD12	1.94	0.49
17:Q2:283:VAL:CG2	17:Q2:297:LEU:HG	2.42	0.49
17:Q2:376:THR:HG22	17:Q2:377:ILE:N	2.27	0.49
17:Q2:426:ILE:HD13	17:Q2:477:PHE:CZ	2.48	0.49
17:Q2:506:LYS:HD3	17:Q2:567:PHE:CD1	2.47	0.49
17:Q2:546:ILE:HB	17:Q2:548:PRO:HD2	1.94	0.49
17:Q2:694:LEU:O	17:Q2:698:PRO:HD2	2.13	0.49
17:Q2:896:TYR:CD2	17:Q2:933:LEU:HD12	2.46	0.49
17:Q2:1070:LEU:HB2	17:Q2:1071:PRO:CD	2.34	0.49
18:R1:528:HIS:O	18:R1:531:ILE:HG12	2.12	0.49
19:R2:519:GLU:O	19:R2:522:LEU:HB2	2.13	0.49
19:R2:684:ILE:O	19:R2:684:ILE:HG13	2.13	0.49
20:S1:317:GLY:O	20:S1:320:SER:HB3	2.13	0.49
22:U1:312:TRP:CZ3	22:U1:319:LEU:HB2	2.48	0.49
25:X1:725:VAL:CG2	27:Z1:612:ILE:CG2	2.89	0.49
25:X1:762:LEU:CD1	26:Y1:1352:VAL:HG13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:714:PHE:CE2	26:Y2:1316:GLU:CB	2.96	0.49
25:X2:717:LYS:HE3	26:Y2:1320:LEU:HD13	1.82	0.49
26:Y1:1236:ASP:C	26:Y1:1239:PHE:CD2	2.86	0.49
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:HG2	1.88	0.49
26:Y2:1371:VAL:O	26:Y2:1371:VAL:HG12	2.00	0.49
27:Z1:41:ASN:O	27:Z1:59:PHE:CD1	2.65	0.49
27:Z1:399:GLU:CG	27:Z2:263:TRP:HE3	2.26	0.49
27:Z2:283:GLY:N	27:Z2:283:GLY:HA3	2.10	0.49
27:Z2:399:GLU:HB3	27:Z2:401:ASP:OD2	2.12	0.49
1:A2:1221:ILE:HD11	1:A1:600:LYS:CE	2.14	0.49
1:A2:1237:LEU:HD11	1:A1:588:SER:HA	1.93	0.49
1:A3:1400:SER:O	4:D3:873:GLN:HB2	2.08	0.49
7:G1:247:ASP:HA	15:O2:247:TRP:CH2	1.96	0.49
9:I1:917:TYR:N	13:M1:534:GLN:NE2	2.58	0.49
9:I1:923:GLY:N	15:O1:187:ASN:ND2	2.61	0.49
9:I2:906:GLY:HA3	13:M3:573:ARG:CG	2.30	0.49
9:I2:968:PRO:C	16:P3:149:ARG:HD2	2.33	0.49
9:I2:1107:SER:HB2	13:M3:615:PRO:CB	2.26	0.49
9:I2:1308:THR:HB	14:N3:413:VAL:CB	2.42	0.49
17:Q1:89:TYR:HE1	17:Q1:398:LYS:HE3	1.77	0.49
17:Q1:125:ARG:HG2	17:Q1:125:ARG:O	2.13	0.49
17:Q1:316:ILE:HD11	17:Q1:331:LEU:HD21	1.87	0.49
17:Q1:506:LYS:HD3	17:Q1:567:PHE:CD1	2.47	0.49
17:Q1:550:LEU:HD12	17:Q1:551:ASN:OD1	2.13	0.49
17:Q1:553:LEU:HD22	17:Q1:632:LYS:HE2	1.95	0.49
17:Q1:670:THR:O	17:Q1:673:ILE:HG22	2.13	0.49
17:Q1:752:GLN:O	17:Q1:755:GLN:HG3	2.12	0.49
17:Q1:819:GLN:O	17:Q1:824:ASN:HB2	2.12	0.49
17:Q1:836:PHE:CD2	17:Q1:842:GLU:CG	2.95	0.49
17:Q1:866:GLN:O	17:Q1:867:GLN:HB3	2.13	0.49
17:Q1:975:PHE:HE1	17:Q1:1044:ARG:NH2	2.10	0.49
17:Q1:1016:PHE:CE2	17:Q1:1020:ARG:CG	2.95	0.49
17:Q2:550:LEU:HD12	17:Q2:551:ASN:OD1	2.13	0.49
17:Q2:642:PHE:CB	17:Q2:643:PRO:HD3	2.37	0.49
17:Q2:725:PHE:CD1	17:Q2:744:LYS:CG	2.95	0.49
17:Q2:864:PHE:HE1	19:R2:680:ILE:CG1	2.26	0.49
17:Q2:969:VAL:CG1	17:Q2:1009:LEU:HD22	2.42	0.49
18:R1:442:LEU:HD22	18:R1:470:LEU:HD21	1.94	0.49
19:R2:50:ALA:HB1	19:R2:69:GLU:HG3	1.93	0.49
19:R2:674:ALA:HB3	19:R2:676:LYS:HG2	1.92	0.49
20:S2:281:ILE:HB	20:S2:301:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:110:GLY:O	23:V2:114:ILE:HG13	2.12	0.49
24:W1:188:LYS:HE2	24:W1:191:GLY:HA2	1.94	0.49
26:Y2:1321:MET:CA	27:Z1:47:ASN:N	2.75	0.49
27:Z1:135:LYS:NZ	27:Z1:217:LEU:O	2.44	0.49
27:Z1:144:VAL:N	27:Z1:152:THR:O	2.41	0.49
27:Z1:240:THR:CG2	27:Z1:240:THR:O	2.55	0.49
1:A2:1224:PRO:CA	1:A1:598:VAL:HG23	2.35	0.49
1:A4:1277:TRP:N	1:A4:1278:PRO:CD	2.75	0.49
4:D4:1052:LEU:O	4:D4:1056:ARG:HG2	2.13	0.49
9:I2:959:SER:O	16:P3:151:LYS:CE	2.59	0.49
9:I2:1033:PRO:HG3	13:M3:616:LEU:O	2.07	0.49
9:I2:1049:LEU:H	14:N3:293:LYS:HB2	1.78	0.49
9:I2:1305:LEU:HA	15:O3:264:ILE:CD1	2.28	0.49
13:M2:495:TRP:CG	14:N2:280:LEU:HD13	2.48	0.49
17:Q1:103:LYS:HA	17:Q1:103:LYS:CE	2.35	0.49
17:Q1:705:LYS:HZ2	17:Q1:710:ILE:HG21	1.75	0.49
17:Q1:847:LEU:CD2	17:Q1:875:PHE:HD2	2.19	0.49
17:Q1:877:GLU:HB3	17:Q1:889:GLN:HB2	1.95	0.49
17:Q1:960:ILE:HA	17:Q1:963:LYS:HE2	1.95	0.49
17:Q1:975:PHE:CD1	17:Q1:980:ILE:HD12	2.42	0.49
17:Q1:983:VAL:CG1	17:Q1:1104:ILE:HD12	2.43	0.49
17:Q1:1003:VAL:HG23	17:Q1:1004:GLU:N	2.28	0.49
17:Q1:1041:VAL:O	17:Q1:1045:ILE:HG13	2.13	0.49
17:Q2:332:LYS:CE	17:Q2:334:TRP:CE2	2.95	0.49
17:Q2:584:LYS:CB	17:Q2:586:ASP:HB2	2.41	0.49
17:Q2:688:THR:HG22	17:Q2:692:GLU:CB	2.42	0.49
17:Q2:697:ASP:OD1	17:Q2:698:PRO:HD3	2.13	0.49
17:Q2:866:GLN:O	17:Q2:867:GLN:HB3	2.13	0.49
17:Q2:1104:ILE:HG22	17:Q2:1105:ASP:N	2.27	0.49
18:R1:379:ILE:HG13	18:R1:385:LEU:HD23	1.95	0.49
18:R1:603:SER:OG	18:R1:616:LEU:HD12	2.13	0.49
19:R2:508:MET:HB3	19:R2:512:TYR:CE2	2.48	0.49
23:V1:278:CYS:SG	23:V1:323:ASP:HB2	2.53	0.49
23:V2:278:CYS:SG	23:V2:323:ASP:HB2	2.53	0.49
25:X1:742:GLN:HE21	25:X1:743:GLN:N	2.11	0.49
25:X1:744:ALA:HB1	27:Z1:631:PHE:CE1	2.43	0.49
26:Y2:1124:THR:HB	26:Y2:1126:LEU:CD2	2.33	0.49
26:Y2:1228:LEU:CD1	27:Z2:539:ILE:O	2.59	0.49
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:HB2	1.67	0.49
27:Z1:263:TRP:CD1	27:Z1:270:VAL:HG21	2.42	0.49
27:Z1:377:SER:O	27:Z1:378:ASP:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:287:ILE:HD13	27:Z2:287:ILE:HA	1.91	0.49
27:Z2:292:GLY:O	27:Z2:295:TYR:CE1	2.63	0.49
1:A4:1048:ARG:HG3	4:D4:1096:TYR:CE2	2.48	0.49
4:D1:1048:MET:SD	4:D1:1106:LEU:HD12	2.53	0.49
4:D3:1052:LEU:O	4:D3:1056:ARG:HG2	2.13	0.49
6:F1:130:LEU:HD23	9:I1:1388:GLU:OE1	2.12	0.49
9:I1:909:ARG:HD2	15:O1:205:ARG:NH2	2.27	0.49
9:I2:754:ARG:NH2	13:M3:573:ARG:HH12	2.06	0.49
9:I2:890:TYR:O	13:M3:591:ASP:HB2	2.12	0.49
9:I2:911:PRO:HG3	15:O3:197:ARG:CG	2.40	0.49
17:Q1:138:CYS:HA	17:Q1:165:ILE:O	2.13	0.49
17:Q1:196:LEU:HD13	17:Q1:196:LEU:C	2.32	0.49
17:Q1:333:ILE:HG23	17:Q1:333:ILE:O	2.12	0.49
17:Q1:583:LEU:HG	17:Q1:584:LYS:N	2.27	0.49
17:Q1:705:LYS:HE3	17:Q1:710:ILE:CD1	2.43	0.49
17:Q1:725:PHE:HB2	17:Q1:744:LYS:CD	2.42	0.49
17:Q2:553:LEU:HD22	17:Q2:632:LYS:HE2	1.94	0.49
17:Q2:929:LEU:HB3	19:R2:714:TYR:CE1	2.45	0.49
17:Q2:929:LEU:HD21	19:R2:691:THR:HA	1.93	0.49
17:Q2:975:PHE:HE1	17:Q2:1044:ARG:NH2	2.10	0.49
17:Q2:983:VAL:CG1	17:Q2:1104:ILE:HD12	2.42	0.49
18:R1:527:VAL:CG2	18:R1:580:PHE:CG	2.96	0.49
19:R2:700:LYS:HG3	19:R2:703:LEU:HG	1.94	0.49
20:S1:173:ILE:H	20:S1:173:ILE:HD12	1.78	0.49
20:S1:523:THR:HA	20:S1:526:HIS:HB2	1.94	0.49
22:U1:192:ILE:HB	27:Z1:664:ARG:CG	2.36	0.49
25:X1:776:PHE:CA	27:Z1:666:GLU:OE2	2.61	0.49
25:X2:745:TYR:HD2	27:Z1:104:SER:HB2	1.68	0.49
26:Y2:1368:LEU:HB2	26:Y2:1383:ALA:HB2	1.95	0.49
27:Z1:125:SER:OG	27:Z1:146:LYS:HD3	2.12	0.49
27:Z1:184:ASP:OD1	27:Z1:184:ASP:C	2.52	0.49
27:Z1:192:LEU:HD12	27:Z1:226:ILE:HD11	1.89	0.49
27:Z2:216:LEU:HD11	27:Z2:272:ILE:CG1	2.36	0.49
27:Z2:363:LEU:HD21	27:Z2:373:LEU:HD11	1.90	0.49
1:A2:1091:VAL:HG12	4:D1:1104:GLU:HG3	1.95	0.48
1:A2:1200:ARG:CA	1:A1:595:GLU:CB	2.90	0.48
1:A2:1225:PRO:CG	1:A1:640:LEU:HD21	2.43	0.48
1:A3:862:LEU:HD11	1:A3:904:GLN:CB	2.43	0.48
1:A3:1201:ARG:NH2	1:A4:647:GLU:HA	2.26	0.48
1:A3:1223:GLU:OE2	1:A4:648:TYR:CD2	2.65	0.48
1:A4:1051:THR:CB	4:D4:1096:TYR:CE2	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:138:ILE:HA	9:I1:1391:THR:CB	2.41	0.48
6:F2:1001:ILE:HD12	6:F2:1001:ILE:O	2.13	0.48
9:I1:52:ASP:OD1	9:I1:53:THR:N	2.46	0.48
9:I2:754:ARG:NH2	13:M3:573:ARG:NH1	2.53	0.48
9:I2:909:ARG:CB	13:M3:580:LYS:HZ1	2.25	0.48
9:I2:928:LEU:HD23	15:O3:179:LEU:HD23	1.89	0.48
9:I2:1072:ASN:O	9:I2:1076:THR:HG22	2.13	0.48
9:I2:1103:LEU:HB2	13:M3:611:LYS:HG2	1.93	0.48
9:I2:1162:TYR:CA	15:O3:266:GLN:NE2	2.49	0.48
9:I2:1305:LEU:O	15:O3:264:ILE:HD12	2.12	0.48
17:Q1:283:VAL:CG2	17:Q1:297:LEU:HG	2.42	0.48
17:Q1:401:ILE:CG2	17:Q1:403:GLN:HG2	2.43	0.48
17:Q2:62:THR:HB	17:Q2:69:VAL:HG22	1.94	0.48
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:CD	2.24	0.48
17:Q2:825:ASP:OD2	17:Q2:867:GLN:HB2	2.13	0.48
18:R1:349:SER:OG	18:R1:358:VAL:HG21	2.13	0.48
18:R1:436:LEU:CD2	18:R1:448:ILE:O	2.53	0.48
18:R1:635:LEU:HD22	18:R1:652:LEU:HD22	1.95	0.48
19:R2:527:VAL:HB	19:R2:580:PHE:CD1	2.48	0.48
20:S2:182:ARG:HD2	20:S2:449:GLN:OE1	2.13	0.48
21:T1:229:ARG:HB2	21:T1:229:ARG:HH11	1.78	0.48
23:V1:158:PHE:O	23:V1:162:VAL:HG23	2.12	0.48
24:W2:188:LYS:HE2	24:W2:191:GLY:HA2	1.95	0.48
25:X2:655:PHE:HE2	27:Z2:546:GLY:N	2.10	0.48
26:Y1:1387:LYS:HE3	26:Y1:1387:LYS:HB2	1.31	0.48
26:Y2:1392:ARG:NH2	27:Z2:690:ASP:CA	2.36	0.48
27:Z1:216:LEU:HG	27:Z1:272:ILE:HG13	1.91	0.48
27:Z2:26:ILE:CG2	27:Z2:26:ILE:O	2.60	0.48
27:Z2:68:THR:O	27:Z2:84:ASN:CG	2.50	0.48
27:Z2:356:LEU:HD13	27:Z2:358:ARG:HH22	1.66	0.48
27:Z2:377:SER:O	27:Z2:378:ASP:C	2.51	0.48
1:A1:780:GLU:HG3	1:A1:822:ILE:CG2	2.43	0.48
1:A2:1055:ARG:NH2	1:A2:1058:GLU:OE1	2.46	0.48
1:A3:1223:GLU:OE2	1:A4:648:TYR:HD2	1.95	0.48
9:I1:288:ILE:O	9:I1:292:GLY:N	2.46	0.48
9:I1:920:PHE:HB2	15:O1:191:ARG:HH22	1.77	0.48
9:I1:1669:ARG:O	9:I2:1671:LEU:HD13	2.12	0.48
13:M3:495:TRP:CG	14:N3:280:LEU:HD13	2.48	0.48
15:O1:85:LYS:HD2	15:O1:94:ALA:HB2	1.96	0.48
17:Q1:703:THR:CB	17:Q1:709:PHE:HB2	2.43	0.48
17:Q1:718:ILE:HD12	17:Q1:718:ILE:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:851:LEU:HG	17:Q1:881:LYS:NZ	2.28	0.48
17:Q1:979:SER:HB2	17:Q1:1104:ILE:HG23	1.90	0.48
17:Q2:752:GLN:O	17:Q2:755:GLN:HG3	2.12	0.48
18:R1:519:GLU:O	18:R1:522:LEU:HB2	2.13	0.48
18:R1:527:VAL:HB	18:R1:580:PHE:CD1	2.48	0.48
19:R2:677:LEU:N	19:R2:677:LEU:HD22	2.27	0.48
20:S1:152:ALA:HB3	21:T1:272:SER:OG	2.13	0.48
20:S2:152:ALA:HB3	21:T2:272:SER:OG	2.13	0.48
21:T2:229:ARG:HB2	21:T2:229:ARG:HH11	1.78	0.48
22:U1:248:LYS:HG2	25:X1:805:ARG:CA	2.43	0.48
22:U1:324:ASP:HB3	23:V1:64:LYS:HD3	1.95	0.48
22:U2:30:ASP:OD1	22:U2:32:HIS:HB2	2.13	0.48
22:U2:77:TYR:HA	22:U2:110:SER:HB3	1.95	0.48
22:U2:312:TRP:CZ3	22:U2:319:LEU:HB2	2.48	0.48
23:V1:262:ILE:HG12	23:V1:289:ILE:HG23	1.96	0.48
24:W1:530:LYS:N	24:W1:743:ASN:O	2.46	0.48
24:W2:163:PRO:HA	24:W2:178:LEU:HA	1.95	0.48
25:X1:683:ALA:HB2	26:Y1:1281:MET:CE	2.43	0.48
26:Y1:1228:LEU:CD1	27:Z1:539:ILE:O	2.59	0.48
26:Y2:1348:LYS:O	26:Y2:1352:VAL:HG23	2.13	0.48
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:CA	2.43	0.48
27:Z1:178:ARG:NH2	27:Z1:280:LYS:CD	2.71	0.48
27:Z1:190:ASP:OD1	27:Z1:311:GLN:CB	2.60	0.48
27:Z1:417:ILE:O	27:Z1:418:ALA:HB2	2.13	0.48
27:Z2:137:TYR:N	27:Z2:217:LEU:HG	2.29	0.48
27:Z2:190:ASP:OD1	27:Z2:311:GLN:CB	2.60	0.48
27:Z2:342:TYR:O	27:Z2:342:TYR:CD2	2.65	0.48
1:A1:862:LEU:HD11	1:A1:904:GLN:CB	2.43	0.48
1:A2:1201:ARG:CG	1:A1:647:GLU:HB2	2.26	0.48
4:D1:1043:VAL:N	4:D1:1044:PRO:CD	2.75	0.48
6:F1:1001:ILE:O	6:F1:1001:ILE:HD12	2.13	0.48
6:F1:1052:CYS:HB3	9:I1:1388:GLU:N	2.28	0.48
6:F2:143:GLY:HA2	9:I2:1394:ASN:C	2.32	0.48
7:G1:254:ASN:ND2	15:O2:250:LEU:CB	2.68	0.48
9:I1:1072:ASN:O	9:I1:1076:THR:HG22	2.13	0.48
9:I2:1035:GLN:C	16:P3:144:ASP:HA	2.33	0.48
10:J1:248:VAL:HG22	15:O1:273:ASP:CG	1.97	0.48
17:Q1:385:THR:HA	17:Q1:507:ILE:HD13	1.36	0.48
17:Q1:516:LEU:CB	17:Q1:517:PRO:HD3	2.37	0.48
17:Q1:696:LEU:HD13	17:Q1:700:GLU:CG	2.38	0.48
17:Q1:709:PHE:CD1	17:Q1:709:PHE:N	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:936:LYS:HE2	17:Q1:943:THR:HG21	1.95	0.48
17:Q1:960:ILE:HB	17:Q1:1006:TYR:CZ	2.48	0.48
17:Q1:1058:LEU:HD23	17:Q1:1136:THR:HG21	1.95	0.48
17:Q2:138:CYS:HA	17:Q2:165:ILE:O	2.13	0.48
17:Q2:996:VAL:HG13	17:Q2:997:VAL:N	2.28	0.48
18:R1:508:MET:O	18:R1:511:ILE:HG22	2.13	0.48
18:R1:630:LEU:O	18:R1:633:THR:HA	2.13	0.48
18:R1:721:THR:O	18:R1:724:LEU:HD13	2.13	0.48
19:R2:677:LEU:HD13	19:R2:721:THR:OG1	2.13	0.48
21:T2:181:LEU:HD23	21:T2:201:GLU:HG2	1.95	0.48
22:U1:311:SER:O	22:U1:319:LEU:HD12	2.13	0.48
22:U2:324:ASP:HB3	23:V2:64:LYS:HD3	1.95	0.48
24:W1:24:VAL:HG23	24:W1:93:ILE:HG23	1.95	0.48
25:X1:648:LEU:CD1	27:Z2:547:VAL:HG11	2.43	0.48
25:X2:655:PHE:HZ	27:Z2:545:LEU:CA	2.26	0.48
25:X2:717:LYS:NZ	27:Z1:49:LEU:CD1	2.76	0.48
25:X2:808:ASP:OD2	26:Y2:1395:LEU:HD11	2.12	0.48
26:Y2:1277:LYS:CD	27:Z2:571:ILE:CG1	2.88	0.48
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:HE3	2.30	0.48
26:Y2:1409:LEU:N	27:Z2:711:LYS:HZ3	2.09	0.48
27:Z1:68:THR:C	27:Z1:84:ASN:ND2	2.66	0.48
27:Z1:241:THR:HB	27:Z1:246:LYS:HE2	0.51	0.48
27:Z1:292:GLY:O	27:Z1:295:TYR:CE1	2.63	0.48
27:Z2:417:ILE:O	27:Z2:417:ILE:HG22	2.12	0.48
1:A1:1036:ALA:HB1	1:A1:1043:ALA:HB2	1.95	0.48
1:A1:1055:ARG:NH2	1:A1:1058:GLU:OE1	2.47	0.48
1:A4:862:LEU:HD11	1:A4:904:GLN:CB	2.43	0.48
4:D1:1052:LEU:O	4:D1:1056:ARG:HG2	2.13	0.48
6:F2:139:GLN:CB	9:I2:1340:LEU:HD22	2.43	0.48
9:I1:843:GLU:HB3	13:M1:535:GLU:HA	1.95	0.48
9:I1:911:PRO:O	13:M1:545:GLU:CG	2.61	0.48
9:I1:1048:GLU:OE2	15:O1:166:ILE:O	2.31	0.48
9:I2:1046:HIS:CE1	14:N3:289:PHE:CZ	3.01	0.48
9:I2:1106:LYS:HD3	15:O3:275:LEU:HD12	1.95	0.48
13:M4:495:TRP:CG	14:N4:280:LEU:HD13	2.48	0.48
17:Q1:344:SER:O	17:Q1:347:PHE:HE1	1.96	0.48
17:Q1:346:LEU:CD1	17:Q1:367:ILE:HG23	2.44	0.48
17:Q1:426:ILE:HD13	17:Q1:477:PHE:CZ	2.48	0.48
17:Q1:442:LYS:O	17:Q1:504:PHE:CD2	2.62	0.48
17:Q1:924:LEU:HG	17:Q1:947:ILE:HD11	1.95	0.48
17:Q2:94:ILE:O	17:Q2:94:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:125:ARG:HG2	17:Q2:125:ARG:O	2.13	0.48
17:Q2:333:ILE:O	17:Q2:333:ILE:HG23	2.12	0.48
17:Q2:705:LYS:HE3	17:Q2:710:ILE:CD1	2.43	0.48
17:Q2:725:PHE:HB2	17:Q2:744:LYS:CD	2.42	0.48
17:Q2:831:LEU:HD12	17:Q2:835:PHE:CB	2.43	0.48
17:Q2:986:ILE:CG2	17:Q2:1102:PHE:HE1	2.26	0.48
17:Q2:1071:PRO:HB2	17:Q2:1146:TYR:HE2	1.78	0.48
18:R1:511:ILE:HD11	18:R1:548:GLN:CG	2.43	0.48
18:R1:533:LEU:HD23	18:R1:549:PHE:CZ	2.49	0.48
19:R2:547:GLU:HB2	19:R2:591:ILE:HD11	1.95	0.48
19:R2:635:LEU:HD22	19:R2:652:LEU:HD22	1.95	0.48
21:T1:118:VAL:O	21:T1:125:VAL:HA	2.14	0.48
24:W1:526:ARG:CA	24:W1:740:PHE:HA	2.41	0.48
24:W1:534:ASP:CA	24:W1:746:CYS:O	2.58	0.48
24:W2:160:VAL:HG23	24:W2:161:ARG:N	2.28	0.48
25:X1:655:PHE:CZ	27:Z1:545:LEU:CA	2.92	0.48
25:X1:676:ILE:HD11	26:Y1:1274:ASN:HD21	1.75	0.48
25:X1:683:ALA:HB2	26:Y1:1281:MET:HE3	1.95	0.48
25:X1:742:GLN:HG3	25:X1:743:GLN:CD	2.28	0.48
25:X1:797:LEU:HB3	26:Y1:1372:LYS:C	2.29	0.48
25:X2:655:PHE:CZ	27:Z2:545:LEU:HB2	2.38	0.48
25:X2:687:GLU:HG3	27:Z2:577:LEU:HD11	1.95	0.48
25:X2:776:PHE:CA	27:Z2:666:GLU:OE2	2.61	0.48
25:X2:778:LYS:O	25:X2:789:GLU:N	2.46	0.48
26:Y2:1124:THR:O	26:Y2:1126:LEU:CD1	2.44	0.48
26:Y2:1317:TYR:CZ	27:Z1:48:VAL:C	2.64	0.48
26:Y2:1406:VAL:O	26:Y2:1410:GLN:HG2	2.13	0.48
27:Z1:297:TYR:HB3	27:Z1:320:ASP:HB2	1.94	0.48
27:Z1:363:LEU:HD21	27:Z1:373:LEU:CD1	2.42	0.48
27:Z1:598:LEU:CD2	27:Z1:601:ARG:NH2	2.63	0.48
27:Z1:709:THR:O	27:Z1:709:THR:CG2	2.59	0.48
27:Z2:46:TYR:OH	27:Z2:431:TRP:CZ2	2.61	0.48
27:Z2:363:LEU:HD21	27:Z2:373:LEU:CD1	2.42	0.48
1:A3:1200:ARG:HG2	1:A4:591:ASP:HB3	0.60	0.48
4:D2:1048:MET:SD	4:D2:1106:LEU:HD12	2.53	0.48
6:F1:142:ALA:HB1	9:I1:1395:LEU:HD23	1.94	0.48
6:F1:1056:ARG:HH12	9:I1:1388:GLU:CD	2.17	0.48
6:F1:1568:GLN:HA	6:F1:1571:VAL:HG22	1.96	0.48
9:I1:1122:ASN:O	9:I1:1126:HIS:ND1	2.42	0.48
9:I2:52:ASP:OD1	9:I2:53:THR:N	2.46	0.48
14:N1:464:LEU:HD21	14:N4:446:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O1:142:PHE:HA	15:O1:145:ILE:HG22	1.94	0.48
17:Q1:246:LYS:HD3	17:Q1:247:LEU:H	1.76	0.48
17:Q1:426:ILE:CD1	17:Q1:443:TRP:HH2	2.27	0.48
17:Q1:441:ARG:NH1	17:Q1:515:ASN:ND2	2.62	0.48
17:Q1:534:THR:HA	17:Q1:537:GLU:HG2	1.95	0.48
17:Q1:589:GLU:HB2	17:Q1:692:GLU:OE2	2.13	0.48
17:Q1:704:SER:H	17:Q1:707:PRO:CG	2.25	0.48
17:Q1:705:LYS:HE3	17:Q1:710:ILE:HD13	1.94	0.48
17:Q1:781:TYR:HA	17:Q1:784:ASN:ND2	2.29	0.48
17:Q1:1073:ASN:N	17:Q1:1073:ASN:HD22	2.11	0.48
17:Q1:1149:ASN:HB3	17:Q1:1152:THR:HG1	1.79	0.48
17:Q2:1041:VAL:O	17:Q2:1045:ILE:HG13	2.13	0.48
17:Q2:1058:LEU:HD23	17:Q2:1136:THR:HG21	1.96	0.48
18:R1:667:LEU:CD1	18:R1:671:LEU:HG	2.44	0.48
19:R2:603:SER:OG	19:R2:616:LEU:HD12	2.13	0.48
20:S2:173:ILE:H	20:S2:173:ILE:HD12	1.78	0.48
22:U1:288:LEU:C	25:X1:797:LEU:N	2.58	0.48
22:U1:289:GLN:HB2	25:X1:794:ILE:HG23	1.94	0.48
23:V1:110:GLY:O	23:V1:114:ILE:HG13	2.12	0.48
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CD2	2.65	0.48
26:Y1:1348:LYS:O	26:Y1:1352:VAL:HG23	2.13	0.48
26:Y1:1450:GLY:HA2	27:Z1:328:PHE:CE1	2.49	0.48
26:Y2:1211:LEU:HB2	26:Y2:1214:ILE:HB	1.94	0.48
26:Y2:1317:TYR:CE2	26:Y2:1318:LEU:CD2	2.97	0.48
27:Z2:79:LEU:HD12	27:Z2:139:ASP:HB2	1.94	0.48
1:A2:780:GLU:HG3	1:A2:822:ILE:CG2	2.43	0.48
1:A4:780:GLU:HG3	1:A4:822:ILE:CG2	2.43	0.48
1:A4:1055:ARG:NH2	1:A4:1058:GLU:OE1	2.47	0.48
4:D1:1075:LEU:C	4:D1:1075:LEU:HD22	2.34	0.48
4:D3:1048:MET:SD	4:D3:1106:LEU:HD12	2.53	0.48
9:I1:754:ARG:N	13:M1:556:MET:HE1	2.28	0.48
9:I1:976:ARG:CD	15:O1:174:LEU:N	2.77	0.48
9:I2:300:LEU:HD23	9:I2:300:LEU:O	2.14	0.48
9:I2:917:TYR:CE1	15:O3:187:ASN:C	2.78	0.48
9:I2:960:SER:CB	16:P3:154:ALA:O	2.58	0.48
9:I2:1100:ILE:CG1	13:M3:611:LYS:HG3	2.40	0.48
9:I2:1305:LEU:HG	15:O3:260:LEU:CD1	2.42	0.48
17:Q1:425:VAL:HG22	17:Q1:446:ILE:HD12	1.95	0.48
17:Q1:694:LEU:O	17:Q1:698:PRO:HD2	2.13	0.48
17:Q1:719:ASN:OD1	17:Q1:723:PHE:HE1	1.95	0.48
17:Q1:907:THR:O	17:Q1:910:ASP:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1016:PHE:CE1	17:Q1:1065:VAL:CG1	2.97	0.48
17:Q2:425:VAL:HG22	17:Q2:446:ILE:HD12	1.95	0.48
18:R1:508:MET:HB3	18:R1:512:TYR:CE2	2.48	0.48
19:R2:533:LEU:HD23	19:R2:549:PHE:CZ	2.49	0.48
19:R2:590:LEU:CD2	19:R2:663:LEU:HD11	2.43	0.48
20:S2:431:ASN:HB2	20:S2:434:LYS:HB3	1.96	0.48
21:T2:38:VAL:O	21:T2:39:GLU:HG3	2.14	0.48
22:U1:299:GLU:OE2	27:Z1:652:GLN:OE1	2.31	0.48
22:U2:196:ARG:HH11	22:U2:202:LEU:HD21	1.79	0.48
23:V1:159:ILE:HG12	23:V1:175:LEU:CB	2.39	0.48
24:W1:160:VAL:HG23	24:W1:161:ARG:H	1.79	0.48
25:X2:665:TRP:HH2	27:Z2:556:GLN:C	2.17	0.48
25:X2:695:GLN:N	27:Z2:431:TRP:HB3	2.29	0.48
26:Y1:1317:TYR:CE2	26:Y1:1318:LEU:CD2	2.96	0.48
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:CG	2.44	0.48
26:Y2:1392:ARG:NE	27:Z2:690:ASP:OD2	2.46	0.48
27:Z1:69:PHE:CA	27:Z1:84:ASN:CG	2.72	0.48
27:Z1:538:ARG:HG2	27:Z2:550:HIS:H	1.77	0.48
27:Z1:679:GLU:OE2	27:Z2:650:SER:O	2.32	0.48
27:Z2:297:TYR:HD1	27:Z2:320:ASP:HB2	1.79	0.48
27:Z2:428:TYR:CD2	27:Z2:428:TYR:O	2.67	0.48
1:A2:1274:ASP:CA	1:A1:642:ARG:HH11	2.25	0.48
1:A2:1328:ARG:NH2	4:D1:976:ARG:HG3	2.29	0.48
1:A3:1036:ALA:HB1	1:A3:1043:ALA:HB2	1.95	0.48
1:A3:1204:TRP:HZ3	1:A4:647:GLU:O	1.36	0.48
6:F2:159:ALA:O	9:I2:1197:ASN:O	2.32	0.48
6:F2:176:ARG:NH2	9:I2:1207:PRO:CG	2.77	0.48
7:G2:250:THR:N	15:O4:254:ARG:CB	2.53	0.48
9:I1:1015:TYR:OH	9:I1:1089:TYR:O	2.31	0.48
9:I2:891:LEU:N	13:M3:591:ASP:CA	2.76	0.48
9:I2:914:ASN:ND2	15:O3:194:GLU:CG	2.71	0.48
9:I2:1103:LEU:CD2	13:M3:614:ASP:HB2	2.37	0.48
13:M4:605:THR:O	15:O4:261:LYS:NZ	2.43	0.48
17:Q1:340:GLN:HG2	17:Q1:342:GLU:H	1.78	0.48
17:Q1:394:LYS:HG2	17:Q1:395:PHE:N	2.27	0.48
17:Q1:781:TYR:HA	17:Q1:784:ASN:HD21	1.79	0.48
17:Q2:120:ILE:O	17:Q2:120:ILE:HG23	2.13	0.48
17:Q2:283:VAL:HG21	17:Q2:297:LEU:CD1	2.42	0.48
17:Q2:401:ILE:CG2	17:Q2:403:GLN:HG2	2.43	0.48
17:Q2:402:PRO:HB3	17:Q2:461:ASP:O	2.13	0.48
17:Q2:960:ILE:HB	17:Q2:1006:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:511:ILE:HD11	19:R2:548:GLN:CG	2.43	0.48
21:T1:174:VAL:HA	21:T1:183:LYS:O	2.13	0.48
21:T2:118:VAL:O	21:T2:125:VAL:HA	2.14	0.48
22:U1:204:VAL:O	27:Z1:668:GLU:OE1	2.31	0.48
22:U1:299:GLU:N	27:Z1:652:GLN:C	2.50	0.48
24:W1:233:TYR:CG	24:W1:311:LEU:HD22	2.49	0.48
25:X2:823:LYS:HD2	27:Z1:272:ILE:CA	2.41	0.48
26:Y2:1125:ASP:C	26:Y2:1125:ASP:CA	2.81	0.48
27:Z1:57:LEU:HD22	27:Z1:109:PHE:HE2	1.59	0.48
27:Z1:62:HIS:NE2	27:Z1:107:ASP:OD1	2.46	0.48
27:Z2:41:ASN:C	27:Z2:59:PHE:CE1	2.87	0.48
27:Z2:381:ILE:HG22	27:Z2:381:ILE:O	2.12	0.48
27:Z2:428:TYR:CE1	27:Z2:435:SER:HG	1.71	0.48
1:A2:1201:ARG:NH2	1:A1:644:ALA:O	2.46	0.48
1:A2:1221:ILE:CB	1:A1:600:LYS:HG3	2.43	0.48
1:A2:1228:TYR:CD1	1:A1:643:ALA:HB2	2.49	0.48
1:A3:1055:ARG:NH2	1:A3:1058:GLU:OE1	2.46	0.48
7:G1:252:LEU:CD2	15:O2:244:GLU:H	2.25	0.48
7:G2:253:SER:N	15:O4:251:ILE:HB	2.29	0.48
9:I1:917:TYR:H	15:O1:195:LEU:CD1	2.16	0.48
9:I1:1049:LEU:HD11	14:N1:297:ALA:N	2.26	0.48
9:I1:1311:LEU:C	15:O1:265:ASN:O	2.50	0.48
9:I2:888:GLU:CA	13:M3:591:ASP:O	2.56	0.48
10:J1:252:LEU:HD12	15:O1:273:ASP:OD2	2.09	0.48
13:M1:495:TRP:CG	14:N1:280:LEU:HD13	2.48	0.48
17:Q1:196:LEU:HB2	17:Q1:242:LEU:HD12	1.94	0.48
17:Q1:892:LEU:O	17:Q1:892:LEU:HD23	2.13	0.48
17:Q1:1070:LEU:HB2	17:Q1:1071:PRO:CD	2.34	0.48
17:Q2:589:GLU:HB2	17:Q2:692:GLU:OE2	2.13	0.48
17:Q2:670:THR:O	17:Q2:673:ILE:HG22	2.13	0.48
17:Q2:697:ASP:OD2	17:Q2:761:ASN:HB2	2.13	0.48
17:Q2:722:PHE:CZ	17:Q2:748:ILE:HB	2.48	0.48
17:Q2:781:TYR:HA	17:Q2:784:ASN:HD21	1.79	0.48
17:Q2:793:CYS:HA	17:Q2:796:ASN:ND2	2.27	0.48
17:Q2:1016:PHE:CE1	17:Q2:1065:VAL:CG1	2.97	0.48
17:Q2:1066:PHE:CE2	17:Q2:1140:VAL:CG2	2.97	0.48
17:Q2:1132:LYS:O	17:Q2:1136:THR:HG23	2.14	0.48
19:R2:543:VAL:HG12	19:R2:594:ILE:HD13	1.92	0.48
19:R2:706:GLN:O	19:R2:711:LEU:HD12	2.14	0.48
22:U2:311:SER:O	22:U2:319:LEU:HD12	2.13	0.48
24:W1:163:PRO:HA	24:W1:178:LEU:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W2:24:VAL:HG23	24:W2:93:ILE:HG23	1.95	0.48
24:W2:522:ASN:O	24:W2:526:ARG:HG3	2.13	0.48
25:X1:743:GLN:CA	25:X1:743:GLN:N	2.76	0.48
25:X2:665:TRP:CZ2	25:X2:669:LEU:CD1	2.87	0.48
25:X2:686:ALA:C	27:Z2:8:SER:HB2	2.24	0.48
26:Y1:1125:ASP:O	26:Y1:1126:LEU:CA	2.61	0.48
26:Y1:1392:ARG:NE	27:Z1:690:ASP:OD2	2.46	0.48
26:Y2:1409:LEU:C	27:Z2:711:LYS:HZ3	2.15	0.48
27:Z1:179:VAL:HG21	27:Z1:206:PHE:CD2	2.35	0.48
27:Z1:184:ASP:OD1	27:Z1:197:LEU:CA	2.60	0.48
27:Z1:216:LEU:HD11	27:Z1:272:ILE:CG1	2.36	0.48
27:Z1:662:LEU:O	27:Z1:666:GLU:CG	2.52	0.48
27:Z2:13:PHE:HD1	27:Z2:445:LEU:HD22	1.75	0.48
1:A2:1399:ARG:HB3	4:D1:872:LEU:CD1	2.35	0.48
1:A3:780:GLU:HG3	1:A3:822:ILE:CG2	2.43	0.48
4:D3:1075:LEU:HD22	4:D3:1075:LEU:C	2.34	0.48
4:D4:1048:MET:SD	4:D4:1106:LEU:HD12	2.53	0.48
6:F1:143:GLY:O	9:I1:1397:GLY:HA3	2.13	0.48
6:F1:1049:GLN:C	9:I1:1388:GLU:N	2.66	0.48
9:I2:1026:TYR:CE1	13:M3:608:LYS:C	2.87	0.48
9:I2:1255:HIS:CD2	14:N3:408:MET:N	2.81	0.48
17:Q1:110:ILE:HG21	17:Q1:474:VAL:HG11	1.96	0.48
17:Q1:444:GLU:OE2	17:Q1:507:ILE:C	2.52	0.48
17:Q1:605:ARG:NH2	17:Q1:629:LEU:HD11	2.29	0.48
17:Q1:996:VAL:HG13	17:Q1:997:VAL:N	2.28	0.48
17:Q2:110:ILE:HG21	17:Q2:474:VAL:HG11	1.96	0.48
17:Q2:396:LYS:O	17:Q2:396:LYS:HG3	2.14	0.48
17:Q2:399:ILE:O	17:Q2:399:ILE:HG23	2.13	0.48
17:Q2:700:GLU:OE2	17:Q2:757:LYS:HB2	2.13	0.48
17:Q2:891:ILE:HD11	19:R2:715:LEU:CD2	1.93	0.48
17:Q2:892:LEU:HD23	17:Q2:892:LEU:O	2.13	0.48
17:Q2:975:PHE:CD1	17:Q2:980:ILE:CD1	2.95	0.48
19:R2:661:PRO:HA	19:R2:705:PHE:CZ	2.49	0.48
19:R2:711:LEU:CB	19:R2:714:TYR:CE2	2.97	0.48
21:T1:12:ILE:HA	21:T1:28:SER:HA	1.96	0.48
22:U1:288:LEU:N	27:Z1:665:ILE:HG23	2.28	0.48
24:W1:160:VAL:HG23	24:W1:161:ARG:N	2.29	0.48
24:W2:233:TYR:CG	24:W2:311:LEU:HD22	2.49	0.48
25:X1:655:PHE:CZ	27:Z1:545:LEU:HB2	2.38	0.48
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CD2	2.24	0.48
25:X2:690:GLN:HG2	27:Z2:7:LEU:HB3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:818:ILE:HD12	26:Y2:1405:GLN:OE1	2.14	0.48
27:Z1:34:ARG:HB3	27:Z1:95:TRP:CH2	2.48	0.48
27:Z1:97:TYR:HD1	27:Z2:626:GLY:H	1.60	0.48
27:Z1:428:TYR:CD2	27:Z1:428:TYR:O	2.66	0.48
27:Z1:679:GLU:N	27:Z1:679:GLU:C	2.62	0.48
27:Z2:171:ASN:O	27:Z2:171:ASN:CG	2.51	0.48
27:Z2:302:ILE:HG22	27:Z2:317:VAL:HG12	1.95	0.48
1:A1:790:ASP:OD1	1:A1:790:ASP:N	2.35	0.48
1:A2:1222:ALA:N	1:A1:600:LYS:HG3	2.28	0.48
1:A2:1268:ASP:OD2	1:A1:729:SER:HB2	2.14	0.48
6:F2:135:VAL:CG1	9:I2:1337:ALA:HB2	2.44	0.48
9:I1:909:ARG:N	15:O1:205:ARG:CD	2.73	0.48
9:I2:1013:GLU:OE1	9:I2:1013:GLU:N	2.41	0.48
9:I2:1101:LEU:CA	15:O3:272:SER:HB2	2.42	0.48
17:Q1:399:ILE:O	17:Q1:399:ILE:HG23	2.13	0.48
17:Q1:448:SER:OG	17:Q1:545:TYR:HE1	1.96	0.48
17:Q1:697:ASP:OD1	17:Q1:698:PRO:HD3	2.13	0.48
17:Q1:700:GLU:OE2	17:Q1:757:LYS:HB2	2.13	0.48
17:Q1:722:PHE:CZ	17:Q1:748:ILE:HB	2.48	0.48
17:Q1:743:LEU:HD23	17:Q1:743:LEU:C	2.34	0.48
17:Q1:939:LEU:H	17:Q1:939:LEU:CD1	2.27	0.48
17:Q2:599:LYS:HD2	17:Q2:603:ILE:HD11	1.96	0.48
17:Q2:667:LEU:HD13	17:Q2:667:LEU:O	2.14	0.48
18:R1:590:LEU:CD2	18:R1:663:LEU:HD11	2.43	0.48
18:R1:628:PHE:CE1	18:R1:629:GLU:HG2	2.49	0.48
18:R1:714:TYR:CD1	18:R1:715:LEU:N	2.82	0.48
19:R2:157:ASP:OD1	19:R2:163:ARG:NH2	2.46	0.48
19:R2:349:SER:OG	19:R2:358:VAL:HG21	2.13	0.48
19:R2:532:ALA:HA	19:R2:535:ARG:CZ	2.44	0.48
19:R2:555:ILE:HD13	19:R2:555:ILE:C	2.35	0.48
20:S1:182:ARG:HD2	20:S1:449:GLN:OE1	2.13	0.48
20:S2:270:THR:OG1	20:S2:391:CYS:SG	2.72	0.48
24:W1:24:VAL:HG11	24:W1:143:ASN:HA	1.95	0.48
24:W2:4:LEU:HB2	24:W2:381:SER:HB2	1.96	0.48
25:X1:689:SER:HB3	26:Y1:1292:LYS:NZ	2.28	0.48
25:X1:714:PHE:CE1	27:Z1:609:LEU:HD21	2.47	0.48
25:X1:818:ILE:HD12	26:Y1:1405:GLN:OE1	2.14	0.48
25:X2:775:THR:HG23	25:X2:791:ILE:HD13	1.95	0.48
26:Y2:1221:VAL:HG22	27:Z2:536:LEU:CD2	2.42	0.48
27:Z1:129:LYS:HG2	27:Z1:145:LEU:CB	2.21	0.48
27:Z1:395:LYS:CE	27:Z2:267:PHE:N	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:417:ILE:O	27:Z1:418:ALA:CB	2.61	0.48
27:Z1:549:ILE:HG22	27:Z1:553:ILE:HD12	1.94	0.48
27:Z2:63:LEU:HG	27:Z2:65:LEU:HD23	1.96	0.48
27:Z2:241:THR:HB	27:Z2:246:LYS:HE2	0.51	0.48
6:F1:138:ILE:CG2	9:I1:1391:THR:C	2.82	0.47
6:F1:731:ASP:OD1	6:F1:732:VAL:N	2.45	0.47
6:F1:1833:ARG:HD3	14:N2:413:VAL:O	2.14	0.47
9:I1:910:LYS:NZ	13:M1:546:ARG:HH21	2.12	0.47
9:I2:1051:LYS:HG2	14:N3:289:PHE:CD1	2.47	0.47
15:O3:85:LYS:HD2	15:O3:94:ALA:HB2	1.96	0.47
17:Q1:63:GLU:CG	17:Q1:68:ILE:HG12	2.43	0.47
17:Q1:399:ILE:CD1	17:Q1:418:VAL:HG22	2.44	0.47
17:Q1:836:PHE:CD2	17:Q1:842:GLU:HG3	2.49	0.47
17:Q1:904:LYS:NZ	17:Q1:946:LYS:HD3	2.29	0.47
17:Q2:703:THR:CB	17:Q2:709:PHE:HB2	2.43	0.47
17:Q2:718:ILE:HD12	17:Q2:718:ILE:H	1.77	0.47
17:Q2:902:THR:HG23	17:Q2:903:LEU:N	2.28	0.47
17:Q2:907:THR:O	17:Q2:910:ASP:HB2	2.14	0.47
17:Q2:1003:VAL:HG23	17:Q2:1004:GLU:N	2.28	0.47
18:R1:465:ILE:HD11	18:R1:473:SER:HB3	1.96	0.47
18:R1:467:PHE:CD2	18:R1:468:LEU:HD12	2.44	0.47
18:R1:555:ILE:HD13	18:R1:555:ILE:C	2.35	0.47
18:R1:682:LYS:CG	18:R1:683:PHE:H	2.19	0.47
19:R2:508:MET:O	19:R2:511:ILE:HG22	2.13	0.47
19:R2:598:GLU:O	19:R2:601:GLN:HG2	2.14	0.47
20:S2:492:LEU:HD12	20:S2:508:ILE:HD13	1.96	0.47
24:W1:530:LYS:HG3	24:W1:746:CYS:N	2.28	0.47
25:X1:772:VAL:HG12	27:Z1:662:LEU:HD12	1.93	0.47
25:X1:791:ILE:H	27:Z1:669:THR:C	2.17	0.47
25:X1:793:LEU:HD21	27:Z1:680:TRP:CD1	2.23	0.47
25:X1:799:SER:O	26:Y1:1372:LYS:CA	2.29	0.47
25:X2:772:VAL:HG12	27:Z2:662:LEU:HD12	1.93	0.47
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CD1	2.97	0.47
27:Z1:132:PHE:CD1	27:Z1:142:ILE:HG12	2.49	0.47
27:Z1:307:ILE:HD13	27:Z1:371:GLY:HA2	1.96	0.47
27:Z1:403:ASN:N	27:Z1:404:PRO:HD2	2.29	0.47
27:Z2:30:GLN:O	27:Z2:33:THR:OG1	2.22	0.47
27:Z2:153:MET:SD	27:Z2:211:PHE:CE2	2.95	0.47
1:A3:1396:GLY:O	4:D3:869:THR:HG23	2.02	0.47
4:D2:1075:LEU:C	4:D2:1075:LEU:HD22	2.34	0.47
4:D4:1075:LEU:HD22	4:D4:1075:LEU:C	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:253:SER:HA	15:O4:248:SER:C	2.28	0.47
9:I1:966:TRP:O	15:O1:181:HIS:HB2	2.12	0.47
9:I2:899:LEU:CD1	13:M3:583:ASP:N	2.78	0.47
9:I2:916:ALA:HB3	15:O3:190:ARG:CA	2.43	0.47
9:I2:924:ILE:N	15:O3:186:PHE:CD2	2.61	0.47
9:I2:1301:ASN:C	15:O3:263:GLN:OE1	2.52	0.47
17:Q1:120:ILE:HG23	17:Q1:120:ILE:O	2.13	0.47
17:Q1:288:ASN:CA	17:Q1:333:ILE:HG22	2.44	0.47
17:Q1:405:GLU:OE1	17:Q1:405:GLU:HA	2.12	0.47
17:Q1:512:ILE:HG22	17:Q1:514:PHE:N	2.29	0.47
17:Q1:552:THR:C	17:Q1:556:HIS:HB2	2.35	0.47
17:Q1:839:PHE:CG	17:Q1:840:PRO:HD2	2.49	0.47
17:Q2:200:ILE:HD13	17:Q2:200:ILE:N	2.20	0.47
17:Q2:516:LEU:HB2	17:Q2:517:PRO:CD	2.39	0.47
17:Q2:1073:ASN:N	17:Q2:1073:ASN:HD22	2.11	0.47
18:R1:453:GLU:OE1	18:R1:453:GLU:HA	2.13	0.47
18:R1:667:LEU:HD13	18:R1:667:LEU:C	2.35	0.47
18:R1:706:GLN:O	18:R1:711:LEU:HD12	2.14	0.47
19:R2:628:PHE:CE1	19:R2:629:GLU:HG2	2.49	0.47
21:T1:38:VAL:O	21:T1:39:GLU:HG3	2.14	0.47
22:U1:296:LEU:HD11	27:Z1:653:GLN:HA	1.96	0.47
25:X1:665:TRP:HH2	27:Z1:556:GLN:C	2.17	0.47
25:X2:688:HIS:CD2	27:Z2:446:THR:C	2.87	0.47
25:X2:823:LYS:NZ	27:Z1:272:ILE:N	2.57	0.47
26:Y2:1450:GLY:HA2	27:Z2:328:PHE:CE1	2.49	0.47
27:Z1:171:ASN:O	27:Z1:171:ASN:CG	2.51	0.47
27:Z2:62:HIS:NE2	27:Z2:107:ASP:OD1	2.47	0.47
1:A2:1226:LEU:HD21	1:A1:646:ILE:N	2.29	0.47
1:A4:442:ARG:CZ	4:D3:1022:PRO:HD2	2.44	0.47
4:D2:1052:LEU:O	4:D2:1056:ARG:HG2	2.13	0.47
6:F1:1713:LEU:HD12	6:F1:1714:LEU:N	2.28	0.47
6:F2:136:ALA:CB	9:I2:1392:VAL:HG21	2.33	0.47
9:I1:900:ARG:HD2	13:M1:577:LEU:HG	1.96	0.47
9:I1:968:PRO:HG2	14:N1:301:LEU:HD23	1.96	0.47
9:I2:816:ASP:OD1	9:I2:817:ASP:N	2.42	0.47
9:I2:1167:ALA:CB	15:O3:270:THR:OG1	2.56	0.47
9:I2:1168:ALA:CA	15:O3:270:THR:CA	2.71	0.47
10:J1:252:LEU:HD22	15:O1:270:THR:HA	1.96	0.47
15:O4:85:LYS:HD2	15:O4:94:ALA:HB2	1.96	0.47
17:Q1:402:PRO:HB3	17:Q1:461:ASP:O	2.13	0.47
17:Q1:506:LYS:HD3	17:Q1:538:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:517:PRO:O	17:Q1:520:ILE:HG22	2.14	0.47
17:Q1:618:LEU:HD23	17:Q1:618:LEU:C	2.35	0.47
17:Q1:657:LEU:C	17:Q1:662:ASN:HD22	2.17	0.47
17:Q1:798:LYS:HZ3	17:Q1:822:ASP:HB3	1.76	0.47
17:Q1:802:ILE:HD13	17:Q1:802:ILE:C	2.34	0.47
17:Q1:1094:TYR:CZ	17:Q1:1098:THR:HG21	2.48	0.47
17:Q2:72:LEU:HD12	17:Q2:110:ILE:HG21	1.92	0.47
17:Q2:89:TYR:HE1	17:Q2:398:LYS:HE3	1.77	0.47
17:Q2:509:ALA:HB2	17:Q2:570:PHE:CE1	2.49	0.47
17:Q2:534:THR:HA	17:Q2:537:GLU:HG2	1.95	0.47
17:Q2:709:PHE:CD1	17:Q2:709:PHE:N	2.82	0.47
17:Q2:781:TYR:HA	17:Q2:784:ASN:ND2	2.29	0.47
18:R1:538:LEU:HB2	18:R1:546:LEU:CD1	2.40	0.47
18:R1:631:ILE:O	18:R1:631:ILE:HG23	2.13	0.47
18:R1:684:ILE:O	18:R1:684:ILE:HG13	2.13	0.47
19:R2:714:TYR:CD1	19:R2:715:LEU:N	2.82	0.47
20:S2:523:THR:HA	20:S2:526:HIS:HB2	1.95	0.47
22:U2:159:ILE:O	22:U2:161:PRO:HD3	2.15	0.47
23:V2:392:GLN:HB3	23:V2:393:PRO:HD3	1.96	0.47
24:W2:160:VAL:HG23	24:W2:161:ARG:H	1.79	0.47
25:X2:648:LEU:HD21	27:Z2:535:PHE:HE1	1.79	0.47
25:X2:665:TRP:CZ3	25:X2:669:LEU:HD12	2.49	0.47
25:X2:687:GLU:N	27:Z2:8:SER:OG	2.44	0.47
25:X2:688:HIS:NE2	27:Z2:445:LEU:CD1	2.76	0.47
25:X2:778:LYS:CE	25:X2:794:ILE:CG1	2.87	0.47
25:X2:778:LYS:HD2	25:X2:792:GLN:HA	1.96	0.47
27:Z1:133:HIS:CE1	27:Z1:211:PHE:CE1	2.99	0.47
27:Z2:81:CYS:HB2	27:Z2:132:PHE:HZ	1.70	0.47
27:Z2:208:PHE:HD1	27:Z2:211:PHE:H	1.58	0.47
27:Z2:403:ASN:N	27:Z2:404:PRO:HD2	2.30	0.47
27:Z2:668:GLU:C	27:Z2:669:THR:CA	2.80	0.47
1:A2:862:LEU:HD11	1:A2:904:GLN:CB	2.43	0.47
1:A2:1229:VAL:HG13	1:A1:640:LEU:N	2.19	0.47
1:A3:873:PRO:HB3	4:D1:532:LEU:HD21	1.92	0.47
1:A3:1332:ARG:CZ	4:D3:899:THR:CA	2.90	0.47
6:F1:139:GLN:CD	9:I1:1340:LEU:HD11	2.27	0.47
6:F1:1053:LEU:HD23	9:I1:1388:GLU:CD	2.35	0.47
9:I1:922:ASP:HB3	15:O1:191:ARG:HG2	1.96	0.47
17:Q1:509:ALA:HB2	17:Q1:570:PHE:CE1	2.50	0.47
17:Q1:636:ILE:C	17:Q1:638:SER:H	2.17	0.47
17:Q1:790:HIS:CG	17:Q1:814:LEU:CB	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:903:LEU:HD13	17:Q1:906:ILE:HD11	1.96	0.47
17:Q1:917:LEU:HD23	17:Q1:917:LEU:C	2.35	0.47
17:Q1:951:LEU:HD23	17:Q1:951:LEU:C	2.34	0.47
17:Q2:517:PRO:O	17:Q2:520:ILE:HG22	2.14	0.47
17:Q2:629:LEU:N	17:Q2:630:THR:CA	2.78	0.47
17:Q2:677:PHE:HE1	17:Q2:713:ASP:HB3	1.79	0.47
17:Q2:925:ASN:OD1	17:Q2:929:LEU:HD13	2.14	0.47
17:Q2:939:LEU:H	17:Q2:939:LEU:CD1	2.27	0.47
18:R1:431:ILE:HD12	18:R1:431:ILE:N	2.30	0.47
18:R1:445:CYS:HB3	18:R1:468:LEU:HD21	1.96	0.47
18:R1:661:PRO:HA	18:R1:705:PHE:CZ	2.49	0.47
19:R2:528:HIS:CE1	19:R2:576:ASN:HB3	2.50	0.47
19:R2:617:ILE:HG13	19:R2:670:LYS:HG2	1.96	0.47
20:S1:173:ILE:HD11	21:T1:43:HIS:CD2	2.50	0.47
20:S1:526:HIS:C	20:S1:528:LEU:N	2.68	0.47
20:S2:317:GLY:O	20:S2:320:SER:HB3	2.13	0.47
21:T1:181:LEU:HD23	21:T1:201:GLU:HG2	1.95	0.47
23:V1:186:ARG:HG3	23:V1:190:PHE:HB2	1.97	0.47
23:V2:186:ARG:HG3	23:V2:190:PHE:HB2	1.97	0.47
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CG	2.92	0.47
25:X2:819:ASN:CG	25:X2:822:LYS:HD2	2.35	0.47
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CD2	2.97	0.47
26:Y2:1435:LYS:HZ2	27:Z2:225:LEU:HD21	1.75	0.47
27:Z1:137:TYR:N	27:Z1:217:LEU:HG	2.28	0.47
27:Z1:641:PHE:CE2	27:Z1:645:VAL:CG2	2.96	0.47
27:Z2:14:GLN:CA	27:Z2:15:ALA:CB	2.63	0.47
27:Z2:41:ASN:ND2	27:Z2:59:PHE:C	2.61	0.47
27:Z2:179:VAL:HG13	27:Z2:198:ASN:ND2	2.26	0.47
1:A2:1036:ALA:HB1	1:A2:1043:ALA:HB2	1.95	0.47
1:A2:1221:ILE:N	1:A1:596:ARG:CA	2.67	0.47
1:A4:127:HIS:CE1	4:D3:1009:ARG:HB2	2.49	0.47
6:F2:1570:GLN:O	6:F2:1573:ASN:ND2	2.48	0.47
9:I1:1049:LEU:N	15:O1:170:LEU:C	2.66	0.47
9:I1:1312:ASN:OD1	15:O1:265:ASN:OD1	2.32	0.47
9:I2:809:HIS:CD2	15:O3:243:LEU:C	2.66	0.47
9:I2:888:GLU:H	13:M3:594:LYS:CE	2.26	0.47
9:I2:892:HIS:HA	13:M3:588:MET:CA	2.44	0.47
9:I2:893:LEU:HD23	15:O3:244:GLU:HG2	1.95	0.47
9:I2:960:SER:HB2	16:P3:155:GLU:N	2.20	0.47
9:I2:1107:SER:HA	15:O3:280:GLU:CG	2.44	0.47
10:J1:240:GLY:O	10:J1:241:THR:OG1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:165:ILE:HD11	17:Q1:174:TYR:CD1	2.50	0.47
17:Q1:670:THR:HG21	17:Q1:744:LYS:HZ3	1.80	0.47
17:Q1:1132:LYS:O	17:Q1:1136:THR:HG23	2.13	0.47
17:Q2:120:ILE:HD13	17:Q2:120:ILE:C	2.34	0.47
17:Q2:272:ASN:H	17:Q2:272:ASN:ND2	2.10	0.47
17:Q2:790:HIS:CG	17:Q2:814:LEU:CB	2.97	0.47
17:Q2:904:LYS:NZ	17:Q2:946:LYS:HD3	2.29	0.47
17:Q2:917:LEU:HD23	17:Q2:917:LEU:C	2.35	0.47
17:Q2:1065:VAL:HB	17:Q2:1070:LEU:HD23	1.97	0.47
18:R1:532:ALA:HA	18:R1:535:ARG:CZ	2.44	0.47
18:R1:598:GLU:O	18:R1:601:GLN:HG2	2.14	0.47
22:U1:159:ILE:O	22:U1:161:PRO:HD3	2.15	0.47
22:U1:208:LEU:HD13	27:Z1:660:SER:CB	2.42	0.47
22:U1:209:PRO:HB3	27:Z1:662:LEU:HB2	1.92	0.47
22:U2:208:LEU:HD11	22:U2:231:ILE:HD11	1.96	0.47
25:X1:819:ASN:CG	25:X1:822:LYS:HD2	2.34	0.47
25:X2:691:ASN:HB3	27:Z2:431:TRP:HD1	0.51	0.47
26:Y1:1221:VAL:HG22	27:Z1:536:LEU:CD2	2.42	0.47
26:Y1:1406:VAL:O	26:Y1:1410:GLN:HG2	2.13	0.47
27:Z1:131:LEU:CB	27:Z1:187:PHE:HE2	2.27	0.47
27:Z1:137:TYR:CA	27:Z1:269:LYS:CD	2.85	0.47
27:Z2:149:ASP:OD1	27:Z2:182:ILE:HB	2.12	0.47
27:Z2:662:LEU:O	27:Z2:666:GLU:CG	2.52	0.47
1:A3:1222:ALA:C	1:A4:648:TYR:CZ	2.45	0.47
6:F1:795:GLU:OE1	6:F1:795:GLU:N	2.42	0.47
6:F1:984:ALA:O	6:F1:988:ARG:NH1	2.48	0.47
6:F2:142:ALA:HB3	9:I2:1395:LEU:CD2	2.44	0.47
6:F2:984:ALA:O	6:F2:988:ARG:NH1	2.48	0.47
6:F2:1713:LEU:HD12	6:F2:1714:LEU:N	2.28	0.47
6:F2:1775:VAL:O	6:F2:1776:THR:HG22	2.14	0.47
7:G1:247:ASP:CA	15:O2:247:TRP:HH2	2.13	0.47
9:I1:912:VAL:CA	13:M1:541:LEU:CD2	2.92	0.47
9:I1:1363:GLU:HB2	15:O1:266:GLN:HE21	1.80	0.47
9:I2:1366:ARG:HD2	10:J2:256:GLN:NE2	2.30	0.47
13:M3:476:THR:HG1	14:N4:323:ARG:HD3	1.75	0.47
17:Q1:339:LEU:HD21	17:Q1:348:LEU:HB2	1.95	0.47
17:Q1:528:GLU:HB2	17:Q1:579:ILE:HG23	1.97	0.47
17:Q1:599:LYS:HD2	17:Q1:603:ILE:HD11	1.96	0.47
17:Q1:716:ASN:HA	17:Q1:719:ASN:HB3	1.96	0.47
17:Q1:753:PHE:O	17:Q1:757:LYS:HG3	2.15	0.47
17:Q1:1065:VAL:HB	17:Q1:1070:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:165:ILE:HD11	17:Q2:174:TYR:CD1	2.50	0.47
17:Q2:196:LEU:HB2	17:Q2:242:LEU:HD12	1.94	0.47
17:Q2:268:VAL:HG13	17:Q2:334:TRP:C	2.34	0.47
17:Q2:339:LEU:HD21	17:Q2:348:LEU:HB2	1.96	0.47
17:Q2:344:SER:O	17:Q2:347:PHE:HE1	1.96	0.47
17:Q2:346:LEU:CD1	17:Q2:367:ILE:HG23	2.44	0.47
17:Q2:528:GLU:HB2	17:Q2:579:ILE:HG23	1.97	0.47
17:Q2:557:LEU:HD11	17:Q2:598:ILE:CG2	2.42	0.47
17:Q2:616:LYS:HG2	17:Q2:630:THR:CG2	2.37	0.47
17:Q2:657:LEU:C	17:Q2:662:ASN:HD22	2.17	0.47
17:Q2:696:LEU:HD13	17:Q2:700:GLU:CG	2.38	0.47
17:Q2:725:PHE:CE1	17:Q2:741:GLY:HA2	2.50	0.47
17:Q2:852:ILE:HD12	17:Q2:913:LYS:HD3	1.96	0.47
17:Q2:929:LEU:HD11	19:R2:695:ALA:CB	2.31	0.47
17:Q2:933:LEU:CD2	19:R2:712:LYS:N	2.78	0.47
17:Q2:936:LYS:HE2	17:Q2:943:THR:HG21	1.96	0.47
17:Q2:1078:LEU:N	17:Q2:1078:LEU:HD22	2.30	0.47
18:R1:530:ILE:HG23	18:R1:531:ILE:N	2.30	0.47
18:R1:664:LEU:HD13	18:R1:694:VAL:HG22	1.96	0.47
18:R1:677:LEU:HD13	18:R1:721:THR:OG1	2.13	0.47
19:R2:630:LEU:O	19:R2:633:THR:HA	2.14	0.47
19:R2:631:ILE:O	19:R2:631:ILE:HG23	2.13	0.47
20:S1:492:LEU:HD12	20:S1:508:ILE:HD13	1.96	0.47
21:T1:227:GLN:OE1	21:T1:256:VAL:HG11	2.15	0.47
22:U2:236:LYS:HG3	22:U2:306:GLU:OE1	2.15	0.47
24:W2:24:VAL:HG11	24:W2:143:ASN:HA	1.95	0.47
24:W2:967:PHE:HA	24:W2:978:ALA:HB2	1.95	0.47
25:X1:687:GLU:HG3	27:Z1:577:LEU:HD11	1.95	0.47
25:X1:714:PHE:CE2	26:Y1:1316:GLU:CB	2.96	0.47
25:X1:753:GLU:CA	25:X1:756:ASN:ND2	2.78	0.47
26:Y1:1211:LEU:HD13	26:Y1:1214:ILE:CG2	2.45	0.47
26:Y2:1362:LEU:CA	26:Y2:1387:LYS:CD	2.80	0.47
26:Y2:1365:ILE:CA	26:Y2:1383:ALA:O	2.53	0.47
27:Z1:127:ILE:HG13	27:Z1:127:ILE:O	2.15	0.47
27:Z2:12:ILE:CD1	27:Z2:54:TYR:HB3	2.42	0.47
27:Z2:184:ASP:OD1	27:Z2:184:ASP:C	2.52	0.47
1:A2:1090:SER:O	4:D1:1104:GLU:OE2	2.32	0.47
1:A2:1222:ALA:O	1:A1:595:GLU:C	2.52	0.47
1:A2:1226:LEU:HD11	1:A1:646:ILE:N	2.15	0.47
1:A3:1222:ALA:HB1	1:A4:598:VAL:HB	1.91	0.47
6:F1:139:GLN:CD	9:I1:1336:MET:SD	2.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:161:ALA:HB3	9:I1:1335:LYS:CA	2.11	0.47
6:F1:332:VAL:O	6:F1:336:ALA:N	2.48	0.47
6:F1:1775:VAL:O	6:F1:1776:THR:HG22	2.14	0.47
6:F2:139:GLN:CG	9:I2:1340:LEU:CD2	2.93	0.47
6:F2:158:PRO:HG3	9:I2:1341:GLN:CG	2.45	0.47
6:F2:1568:GLN:HA	6:F2:1571:VAL:HG22	1.96	0.47
9:I1:300:LEU:O	9:I1:300:LEU:HD23	2.14	0.47
9:I1:1312:ASN:CG	15:O1:265:ASN:OD1	2.53	0.47
9:I2:963:LEU:N	16:P3:151:LYS:HD2	2.26	0.47
9:I2:981:VAL:HB	15:O3:171:ASP:O	2.14	0.47
9:I2:1370:VAL:CG2	10:J2:259:THR:HG21	2.41	0.47
10:J2:240:GLY:O	10:J2:241:THR:OG1	2.28	0.47
15:O2:85:LYS:HD2	15:O2:94:ALA:HB2	1.96	0.47
17:Q1:120:ILE:HD13	17:Q1:120:ILE:C	2.34	0.47
17:Q1:268:VAL:HG13	17:Q1:334:TRP:C	2.34	0.47
17:Q1:283:VAL:HG21	17:Q1:297:LEU:CD1	2.42	0.47
17:Q1:288:ASN:CG	17:Q1:332:LYS:HG2	2.35	0.47
17:Q1:359:THR:HG1	17:Q1:387:MET:HB2	1.78	0.47
17:Q1:542:ASN:O	17:Q1:545:TYR:HB2	2.15	0.47
17:Q1:651:ASN:C	17:Q1:654:VAL:HG22	2.35	0.47
17:Q1:677:PHE:HE1	17:Q1:713:ASP:HB3	1.79	0.47
17:Q1:1078:LEU:N	17:Q1:1078:LEU:HD22	2.30	0.47
17:Q2:512:ILE:HG22	17:Q2:514:PHE:N	2.29	0.47
17:Q2:529:HIS:HA	17:Q2:532:LYS:HE2	1.97	0.47
17:Q2:552:THR:C	17:Q2:556:HIS:HB2	2.35	0.47
17:Q2:802:ILE:HD13	17:Q2:802:ILE:C	2.34	0.47
17:Q2:855:LYS:O	17:Q2:856:LYS:HD2	2.15	0.47
17:Q2:975:PHE:CD1	17:Q2:980:ILE:HD12	2.42	0.47
17:Q2:1071:PRO:HG3	17:Q2:1155:VAL:HG21	1.97	0.47
18:R1:293:ILE:HD11	18:R1:327:VAL:HG21	1.97	0.47
18:R1:538:LEU:HD13	18:R1:546:LEU:HD12	1.97	0.47
18:R1:711:LEU:CB	18:R1:714:TYR:CE2	2.97	0.47
19:R2:8:GLN:O	19:R2:10:GLU:N	2.48	0.47
19:R2:660:THR:HG22	19:R2:661:PRO:HD3	1.93	0.47
20:S2:173:ILE:HD11	21:T2:43:HIS:CD2	2.50	0.47
20:S2:526:HIS:C	20:S2:528:LEU:N	2.68	0.47
21:T1:12:ILE:HG23	21:T1:27:CYS:O	2.15	0.47
21:T2:12:ILE:HA	21:T2:28:SER:HA	1.96	0.47
22:U1:34:LYS:HG2	22:U1:50:SER:HB2	1.95	0.47
25:X1:638:ASP:OD1	25:X1:639:ASP:HA	2.13	0.47
25:X1:655:PHE:HZ	27:Z1:545:LEU:CA	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:698:GLN:HA	25:X1:701:GLU:OE1	2.15	0.47
26:Y1:1305:GLN:CD	27:Z1:599:MET:HG3	2.34	0.47
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:HD21	2.50	0.47
26:Y1:1392:ARG:HD3	27:Z1:694:ILE:HG12	1.97	0.47
26:Y2:1317:TYR:CE2	27:Z1:48:VAL:O	2.67	0.47
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CD2	2.98	0.47
27:Z1:23:PRO:C	27:Z1:23:PRO:CA	2.83	0.47
27:Z1:41:ASN:C	27:Z1:59:PHE:CE1	2.87	0.47
27:Z1:137:TYR:CD2	27:Z1:137:TYR:N	2.65	0.47
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CD2	2.49	0.47
27:Z1:273:GLN:NE2	27:Z2:708:PHE:CZ	2.83	0.47
27:Z1:302:ILE:HG22	27:Z1:317:VAL:HG12	1.96	0.47
27:Z1:326:LEU:HD12	27:Z1:326:LEU:HA	1.74	0.47
27:Z1:441:SER:OG	27:Z1:444:THR:OG1	2.22	0.47
27:Z1:612:ILE:HG22	27:Z1:612:ILE:C	2.35	0.47
27:Z2:7:LEU:HD21	27:Z2:584:GLN:NE2	2.28	0.47
1:A2:1229:VAL:HB	1:A1:640:LEU:HD23	1.26	0.47
9:I1:960:SER:OG	16:P1:155:GLU:OE2	2.30	0.47
9:I2:892:HIS:CG	13:M3:591:ASP:OD2	2.62	0.47
9:I2:916:ALA:HB3	15:O3:193:ALA:H	1.70	0.47
13:M1:605:THR:O	15:O1:261:LYS:NZ	2.43	0.47
17:Q1:290:GLY:O	17:Q1:312:ILE:HG12	2.14	0.47
17:Q1:334:TRP:HZ3	17:Q1:396:LYS:HB3	1.80	0.47
17:Q1:557:LEU:HD11	17:Q1:598:ILE:CG2	2.42	0.47
17:Q1:676:CYS:HA	17:Q1:679:ASP:OD1	2.14	0.47
17:Q1:811:LEU:HD22	17:Q1:811:LEU:O	2.15	0.47
17:Q1:925:ASN:OD1	17:Q1:929:LEU:HD13	2.14	0.47
17:Q2:527:ILE:HG12	17:Q2:530:ASP:H	1.80	0.47
17:Q2:676:CYS:HA	17:Q2:679:ASP:OD1	2.14	0.47
17:Q2:716:ASN:HA	17:Q2:719:ASN:HB3	1.96	0.47
17:Q2:811:LEU:HD22	17:Q2:811:LEU:O	2.15	0.47
17:Q2:839:PHE:CG	17:Q2:840:PRO:HD2	2.49	0.47
17:Q2:870:VAL:C	17:Q2:873:GLN:HG2	2.35	0.47
18:R1:157:ASP:OD1	18:R1:163:ARG:NH2	2.46	0.47
20:S1:151:PHE:HB2	21:T1:259:ARG:NH1	2.30	0.47
20:S1:270:THR:OG1	20:S1:391:CYS:SG	2.72	0.47
22:U1:140:LEU:O	22:U1:142:PRO:HD3	2.15	0.47
22:U2:34:LYS:HG2	22:U2:50:SER:HB2	1.95	0.47
23:V1:152:LEU:HD22	23:V1:179:LEU:HD12	1.97	0.47
25:X1:776:PHE:CE2	26:Y1:1369:PHE:HE1	2.30	0.47
25:X1:795:LYS:HG3	27:Z1:665:ILE:HG22	0.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:804:LEU:HD21	26:Y1:1392:ARG:HD3	1.97	0.47
25:X2:804:LEU:HD21	26:Y2:1392:ARG:HD3	1.97	0.47
26:Y1:1367:LYS:O	26:Y1:1370:THR:OG1	2.30	0.47
26:Y1:1456:LEU:CB	26:Y1:1456:LEU:N	2.77	0.47
26:Y2:1236:ASP:C	26:Y2:1239:PHE:CE2	2.84	0.47
26:Y2:1277:LYS:NZ	27:Z2:568:CYS:HA	2.29	0.47
27:Z1:26:ILE:HG22	27:Z1:440:MET:CG	2.39	0.47
27:Z1:41:ASN:ND2	27:Z1:59:PHE:C	2.61	0.47
27:Z1:63:LEU:HG	27:Z1:65:LEU:HD23	1.96	0.47
27:Z1:133:HIS:HE1	27:Z1:211:PHE:CD1	2.13	0.47
27:Z1:404:PRO:HD3	27:Z2:262:ASN:CB	2.30	0.47
27:Z1:426:LEU:HD21	27:Z1:439:LEU:CD2	2.45	0.47
27:Z2:179:VAL:HG21	27:Z2:206:PHE:CD2	2.35	0.47
1:A3:1083:SER:O	4:D3:1095:ARG:CD	2.61	0.47
7:G1:255:LEU:HB2	15:O2:243:LEU:O	2.14	0.47
9:I1:918:SER:HB3	15:O1:190:ARG:CA	2.22	0.47
9:I1:962:ILE:HD12	15:O1:184:ARG:H	1.70	0.47
9:I2:968:PRO:CG	14:N3:300:ALA:C	2.65	0.47
9:I2:1103:LEU:H	13:M3:611:LYS:HE3	1.47	0.47
17:Q1:61:PHE:HE1	17:Q1:71:THR:OG1	1.98	0.47
17:Q1:1066:PHE:CE2	17:Q1:1140:VAL:CG2	2.97	0.47
17:Q2:290:GLY:O	17:Q2:312:ILE:HG12	2.14	0.47
17:Q2:605:ARG:NH2	17:Q2:629:LEU:HD11	2.29	0.47
17:Q2:743:LEU:HD23	17:Q2:743:LEU:C	2.34	0.47
17:Q2:903:LEU:HD13	17:Q2:906:ILE:HD11	1.96	0.47
17:Q2:951:LEU:HD23	17:Q2:951:LEU:C	2.34	0.47
17:Q2:1036:PHE:CE1	17:Q2:1090:LEU:HD23	2.50	0.47
18:R1:86:ASN:OD1	18:R1:400:ASN:ND2	2.48	0.47
19:R2:207:SER:HG	20:S2:359:TYR:HH	1.61	0.47
19:R2:527:VAL:HA	19:R2:530:ILE:HG22	1.97	0.47
19:R2:530:ILE:HG23	19:R2:531:ILE:N	2.30	0.47
23:V1:223:TYR:HA	23:V1:226:GLN:HB2	1.96	0.47
23:V2:223:TYR:HA	23:V2:226:GLN:HB2	1.96	0.47
23:V2:262:ILE:HG12	23:V2:289:ILE:HG23	1.96	0.47
24:W1:570:LEU:O	24:W1:574:LEU:HB2	2.15	0.47
24:W1:967:PHE:HA	24:W1:978:ALA:HB2	1.96	0.47
25:X1:790:ASN:HA	27:Z1:680:TRP:CZ2	2.49	0.47
25:X2:743:GLN:N	25:X2:744:ALA:N	2.59	0.47
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD13	1.94	0.47
26:Y1:1277:LYS:NZ	27:Z1:568:CYS:HA	2.29	0.47
26:Y2:1317:TYR:CE2	26:Y2:1318:LEU:HD23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:209:TYR:CE1	27:Z1:335:MET:HA	2.26	0.47
27:Z2:47:ASN:HD21	27:Z2:95:TRP:CH2	1.66	0.47
27:Z2:132:PHE:CD1	27:Z2:142:ILE:HG12	2.50	0.47
27:Z2:184:ASP:OD1	27:Z2:197:LEU:CA	2.60	0.47
1:A2:1200:ARG:HB2	1:A1:591:ASP:C	2.35	0.47
1:A3:871:ASN:CG	4:D1:515:ASN:CB	2.83	0.47
4:D4:464:ARG:HD2	4:D4:803:LEU:O	2.15	0.47
7:G2:252:LEU:HB3	15:O4:248:SER:CA	2.45	0.47
7:G2:252:LEU:HD12	15:O4:251:ILE:CD1	2.45	0.47
7:G2:254:ASN:HB2	15:O4:256:TYR:HB2	1.97	0.47
9:I1:912:VAL:CG2	15:O1:198:ARG:NH2	2.73	0.47
9:I1:925:LEU:HB3	15:O1:183:VAL:O	2.15	0.47
9:I1:976:ARG:O	15:O1:174:LEU:HA	2.15	0.47
9:I1:1046:HIS:HD1	15:O1:167:ASN:HD21	1.63	0.47
9:I1:1366:ARG:HD2	10:J1:256:GLN:NE2	2.30	0.47
9:I2:809:HIS:HA	15:O3:241:SER:HA	1.82	0.47
9:I2:961:ARG:HB2	16:P3:155:GLU:O	2.14	0.47
9:I2:968:PRO:HG2	14:N3:300:ALA:CB	2.32	0.47
9:I2:1028:CYS:C	13:M3:612:PRO:O	2.54	0.47
15:O2:108:VAL:N	15:O2:109:PRO:CD	2.78	0.47
17:Q1:600:PHE:CZ	17:Q1:675:LEU:HB3	2.50	0.47
17:Q1:725:PHE:CE1	17:Q1:741:GLY:HA2	2.50	0.47
17:Q1:820:THR:HG23	17:Q1:821:LEU:N	2.29	0.47
17:Q1:1071:PRO:HB2	17:Q1:1146:TYR:HE2	1.79	0.47
17:Q2:288:ASN:OD1	17:Q2:332:LYS:HD3	2.15	0.47
17:Q2:288:ASN:CG	17:Q2:332:LYS:HG2	2.35	0.47
17:Q2:399:ILE:CD1	17:Q2:418:VAL:HG22	2.44	0.47
17:Q2:432:LYS:HD3	17:Q2:439:MET:HE2	1.97	0.47
17:Q2:753:PHE:O	17:Q2:757:LYS:HG3	2.15	0.47
17:Q2:933:LEU:HD23	19:R2:712:LYS:N	2.30	0.47
19:R2:222:VAL:O	20:S2:256:VAL:HG13	2.15	0.47
19:R2:667:LEU:CD1	19:R2:671:LEU:HG	2.44	0.47
23:V2:322:THR:HG23	23:V2:329:ARG:HD3	1.97	0.47
25:X1:800:HIS:CD2	27:Z1:694:ILE:CD1	2.92	0.47
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD13	1.94	0.47
25:X2:683:ALA:HB2	26:Y2:1281:MET:CE	2.43	0.47
25:X2:695:GLN:N	27:Z2:432:ASN:N	2.59	0.47
26:Y1:1305:GLN:HG2	27:Z1:599:MET:HG2	1.97	0.47
26:Y1:1317:TYR:CE2	26:Y1:1318:LEU:HD23	2.49	0.47
26:Y2:1317:TYR:HA	27:Z1:49:LEU:O	2.15	0.47
27:Z1:136:SER:O	27:Z1:217:LEU:HD12	2.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:127:ILE:HG13	27:Z2:127:ILE:O	2.15	0.47
27:Z2:196:CYS:N	27:Z2:206:PHE:O	2.25	0.47
27:Z2:428:TYR:CD2	27:Z2:428:TYR:C	2.88	0.47
27:Z2:549:ILE:HG22	27:Z2:553:ILE:HD12	1.94	0.47
1:A2:1230:TYR:CE2	1:A1:590:SER:C	2.74	0.46
4:D2:1019:ARG:NE	4:D2:1079:GLU:OE1	2.49	0.46
4:D3:529:TYR:OH	4:D3:533:ARG:NH1	2.48	0.46
6:F1:142:ALA:HB3	9:I1:1395:LEU:H	0.53	0.46
7:G2:251:TYR:N	15:O4:251:ILE:CG2	2.76	0.46
9:I1:899:LEU:O	13:M1:576:LYS:C	2.53	0.46
9:I1:1315:GLN:C	15:O1:269:ILE:HG13	2.29	0.46
9:I2:809:HIS:NE2	15:O3:243:LEU:CD1	2.78	0.46
9:I2:956:ILE:O	16:P3:151:LYS:CE	2.64	0.46
9:I2:1100:ILE:HG13	13:M3:610:SER:O	2.16	0.46
9:I2:1160:ILE:HD13	15:O3:263:GLN:C	2.33	0.46
17:Q1:228:ILE:HD11	17:Q1:248:LEU:CB	2.46	0.46
17:Q1:417:LEU:CD1	17:Q1:465:LEU:HB2	2.44	0.46
17:Q1:587:LEU:HD23	17:Q1:587:LEU:C	2.35	0.46
17:Q1:867:GLN:H	17:Q1:870:VAL:HG23	1.79	0.46
17:Q2:542:ASN:HD21	17:Q2:564:PHE:HB2	1.80	0.46
17:Q2:600:PHE:CZ	17:Q2:675:LEU:HB3	2.50	0.46
17:Q2:651:ASN:C	17:Q2:654:VAL:HG22	2.35	0.46
17:Q2:693:LEU:HD11	17:Q2:761:ASN:HD21	1.80	0.46
17:Q2:814:LEU:HD12	17:Q2:815:VAL:CA	2.44	0.46
17:Q2:1144:LYS:HB3	17:Q2:1146:TYR:CD1	2.38	0.46
18:R1:222:VAL:O	20:S1:256:VAL:HG13	2.15	0.46
18:R1:650:GLU:O	18:R1:654:GLU:HG3	2.16	0.46
19:R2:667:LEU:HD13	19:R2:667:LEU:C	2.34	0.46
19:R2:705:PHE:HD2	19:R2:710:LYS:HB3	1.80	0.46
20:S2:352:ASP:HB3	20:S2:355:ILE:HD13	1.97	0.46
21:T2:227:GLN:OE1	21:T2:256:VAL:HG11	2.15	0.46
25:X2:655:PHE:CE2	27:Z2:545:LEU:C	2.89	0.46
25:X2:695:GLN:H	27:Z2:431:TRP:HB3	1.80	0.46
25:X2:698:GLN:HA	25:X2:701:GLU:OE1	2.15	0.46
26:Y1:1437:VAL:CG2	26:Y2:1429:LYS:CE	2.89	0.46
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:CB	2.78	0.46
26:Y2:1321:MET:HA	27:Z1:47:ASN:O	2.00	0.46
27:Z1:216:LEU:O	27:Z1:269:LYS:HG2	2.15	0.46
27:Z1:218:LEU:CD1	27:Z1:223:LEU:HD23	2.18	0.46
27:Z1:230:SER:C	27:Z1:253:LEU:CD2	2.64	0.46
27:Z1:534:GLU:HB2	27:Z2:545:LEU:HA	1.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:34:ARG:CB	27:Z2:95:TRP:CH2	2.98	0.46
27:Z2:317:VAL:O	27:Z2:324:LEU:CD1	2.54	0.46
27:Z2:449:ASN:CG	27:Z2:576:ASP:CB	2.83	0.46
1:A3:1331:GLU:CB	4:D3:872:LEU:O	2.53	0.46
4:D1:1030:ALA:CB	1:A1:633:MET:HE2	2.44	0.46
4:D3:916:ILE:HD11	4:D3:1049:TRP:NE1	2.31	0.46
6:F1:156:LEU:O	9:I1:1341:GLN:HG2	2.15	0.46
6:F1:267:GLU:CD	11:K1:638:PRO:HD2	2.34	0.46
6:F1:302:PRO:O	6:F1:355:ARG:NE	2.48	0.46
6:F1:1267:ARG:HG3	15:O2:251:ILE:O	2.14	0.46
9:I1:925:LEU:H	15:O1:187:ASN:ND2	2.13	0.46
9:I1:1584:LEU:HD21	10:J1:275:PHE:CE1	2.50	0.46
9:I2:902:GLN:CG	13:M3:576:LYS:O	2.59	0.46
17:Q1:272:ASN:H	17:Q1:272:ASN:ND2	2.10	0.46
17:Q1:396:LYS:O	17:Q1:396:LYS:HG3	2.14	0.46
17:Q1:419:MET:HE1	17:Q1:465:LEU:HD11	1.97	0.46
17:Q1:519:GLU:HA	17:Q1:519:GLU:OE1	2.15	0.46
17:Q1:629:LEU:N	17:Q1:630:THR:CA	2.78	0.46
17:Q1:667:LEU:HD13	17:Q1:667:LEU:O	2.14	0.46
17:Q2:63:GLU:CG	17:Q2:68:ILE:HG12	2.43	0.46
17:Q2:294:THR:HG21	17:Q2:308:ILE:HG12	1.93	0.46
17:Q2:313:TYR:O	17:Q2:316:ILE:HG12	2.16	0.46
17:Q2:394:LYS:HG2	17:Q2:395:PHE:N	2.27	0.46
17:Q2:519:GLU:OE1	17:Q2:519:GLU:HA	2.15	0.46
17:Q2:618:LEU:HD23	17:Q2:618:LEU:C	2.35	0.46
17:Q2:636:ILE:C	17:Q2:638:SER:H	2.17	0.46
17:Q2:660:SER:O	17:Q2:663:GLN:HB2	2.15	0.46
18:R1:8:GLN:C	18:R1:10:GLU:N	2.68	0.46
18:R1:144:TRP:CH2	18:R1:158:LEU:HA	2.51	0.46
18:R1:159:ASP:OD2	20:S1:319:LEU:HB2	2.16	0.46
18:R1:660:THR:HG22	18:R1:661:PRO:HD3	1.93	0.46
18:R1:711:LEU:HG	18:R1:714:TYR:CE2	2.47	0.46
19:R2:144:TRP:CH2	19:R2:158:LEU:HA	2.51	0.46
20:S1:304:VAL:HG13	20:S1:323:ILE:HG22	1.97	0.46
20:S1:352:ASP:HB3	20:S1:355:ILE:HD13	1.97	0.46
22:U1:236:LYS:HG3	22:U1:306:GLU:OE1	2.15	0.46
23:V1:533:GLU:H	23:V1:533:GLU:HG2	1.46	0.46
24:W1:4:LEU:HB2	24:W1:381:SER:HB2	1.97	0.46
25:X1:755:LEU:CD1	26:Y1:1349:LEU:CG	2.92	0.46
25:X2:693:ILE:HD11	26:Y2:1292:LYS:HG2	1.98	0.46
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CZ2	2.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1392:ARG:HD3	27:Z2:694:ILE:HG12	1.97	0.46
27:Z1:197:LEU:HB2	27:Z1:302:ILE:HG23	1.96	0.46
27:Z1:360:ILE:HG23	27:Z1:375:VAL:HG13	1.98	0.46
27:Z1:605:LEU:O	27:Z1:609:LEU:HG	2.15	0.46
27:Z2:182:ILE:CD1	27:Z2:198:ASN:CG	2.84	0.46
27:Z2:197:LEU:HB2	27:Z2:302:ILE:HG23	1.96	0.46
1:A3:1204:TRP:HD1	1:A4:595:GLU:OE1	1.96	0.46
1:A3:1332:ARG:CG	4:D3:899:THR:HG22	2.36	0.46
6:F1:163:ASP:H	9:I1:1331:LYS:CG	2.08	0.46
6:F2:302:PRO:O	6:F2:355:ARG:NE	2.48	0.46
9:I1:843:GLU:CB	13:M1:535:GLU:HA	2.46	0.46
9:I2:813:ILE:HG23	15:O3:237:PRO:O	1.99	0.46
9:I2:925:LEU:CD1	15:O3:186:PHE:H	2.25	0.46
9:I2:976:ARG:CZ	16:P3:141:ALA:HB3	2.45	0.46
9:I2:1032:THR:CG2	13:M3:618:GLN:HG2	2.45	0.46
10:J1:248:VAL:O	15:O1:273:ASP:O	2.07	0.46
15:O1:108:VAL:N	15:O1:109:PRO:CD	2.78	0.46
15:O4:108:VAL:N	15:O4:109:PRO:CD	2.78	0.46
17:Q1:140:LEU:HD23	17:Q1:141:THR:CA	2.46	0.46
17:Q1:170:SER:CB	17:Q1:200:ILE:CD1	2.93	0.46
17:Q1:196:LEU:HD13	17:Q1:197:GLU:C	2.36	0.46
17:Q1:756:PHE:CE2	17:Q1:760:ILE:CD1	2.98	0.46
17:Q1:855:LYS:O	17:Q1:856:LYS:HD2	2.14	0.46
17:Q2:170:SER:CB	17:Q2:200:ILE:CD1	2.93	0.46
17:Q2:334:TRP:HZ3	17:Q2:396:LYS:HB3	1.80	0.46
17:Q2:542:ASN:O	17:Q2:545:TYR:HB2	2.15	0.46
17:Q2:704:SER:CA	17:Q2:707:PRO:HD2	2.46	0.46
17:Q2:867:GLN:H	17:Q2:870:VAL:HG23	1.80	0.46
17:Q2:922:LEU:HD13	19:R2:689:ALA:N	2.31	0.46
17:Q2:1016:PHE:CZ	17:Q2:1070:LEU:HD21	2.45	0.46
17:Q2:1149:ASN:HB3	17:Q2:1152:THR:HG1	1.79	0.46
18:R1:207:SER:O	18:R1:211:ILE:HG13	2.15	0.46
18:R1:465:ILE:CD1	18:R1:473:SER:CB	2.93	0.46
18:R1:480:THR:HG23	18:R1:481:GLN:N	2.30	0.46
20:S1:431:ASN:HB2	20:S1:434:LYS:HB3	1.96	0.46
22:U1:196:ARG:HH11	22:U1:202:LEU:HD21	1.78	0.46
24:W1:526:ARG:NE	24:W1:740:PHE:CB	2.78	0.46
24:W2:247:ASP:O	24:W2:251:PHE:N	2.46	0.46
25:X1:708:GLU:CG	27:Z1:598:LEU:HD21	2.29	0.46
25:X1:714:PHE:CE1	25:X1:718:THR:OG1	2.69	0.46
27:Z1:280:LYS:CE	27:Z1:340:ASP:OD1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:151:ILE:HD12	27:Z2:167:ASN:ND2	2.30	0.46
1:A3:871:ASN:HB3	4:D1:515:ASN:HB3	1.95	0.46
4:D1:1031:ARG:O	4:D1:1034:SER:OG	2.27	0.46
4:D2:464:ARG:HD2	4:D2:803:LEU:O	2.15	0.46
4:D4:529:TYR:OH	4:D4:533:ARG:NH1	2.49	0.46
6:F1:689:ARG:O	6:F1:699:ARG:N	2.40	0.46
6:F2:731:ASP:OD1	6:F2:732:VAL:N	2.45	0.46
6:F2:1571:VAL:O	6:F2:1574:ILE:HG13	2.16	0.46
9:I1:904:GLU:OE1	13:M1:573:ARG:HD2	2.15	0.46
9:I1:924:ILE:CA	15:O1:187:ASN:ND2	2.74	0.46
9:I1:961:ARG:NH2	16:P1:158:THR:O	2.49	0.46
9:I2:288:ILE:O	9:I2:292:GLY:N	2.46	0.46
9:I2:914:ASN:ND2	15:O3:194:GLU:CD	2.69	0.46
9:I2:1109:LEU:HB2	15:O3:284:LYS:CE	2.45	0.46
17:Q1:704:SER:CA	17:Q1:707:PRO:HD2	2.46	0.46
17:Q1:814:LEU:CD1	17:Q1:815:VAL:HG12	2.46	0.46
17:Q1:986:ILE:HG21	17:Q1:1102:PHE:HE1	1.81	0.46
17:Q1:1144:LYS:HB3	17:Q1:1146:TYR:CD1	2.38	0.46
17:Q2:89:TYR:CE1	17:Q2:398:LYS:HE3	2.51	0.46
17:Q2:288:ASN:CA	17:Q2:333:ILE:HG22	2.44	0.46
17:Q2:587:LEU:HD23	17:Q2:587:LEU:C	2.36	0.46
17:Q2:657:LEU:HD23	17:Q2:657:LEU:N	2.28	0.46
17:Q2:756:PHE:CE2	17:Q2:760:ILE:CD1	2.98	0.46
17:Q2:986:ILE:HG21	17:Q2:1102:PHE:HE1	1.81	0.46
18:R1:436:LEU:HA	18:R1:448:ILE:O	2.14	0.46
18:R1:705:PHE:HD2	18:R1:710:LYS:HB3	1.80	0.46
19:R2:701:ILE:HA	19:R2:704:LEU:HD23	1.98	0.46
20:S2:360:LYS:HG3	20:S2:366:PRO:HA	1.97	0.46
22:U1:295:GLU:HA	27:Z1:658:LEU:CG	2.42	0.46
23:V2:159:ILE:HG12	23:V2:175:LEU:CB	2.39	0.46
24:W2:570:LEU:O	24:W2:574:LEU:HB2	2.15	0.46
25:X1:717:LYS:HB3	26:Y1:1320:LEU:CD1	2.28	0.46
25:X2:695:GLN:CG	27:Z2:431:TRP:CA	2.75	0.46
25:X2:695:GLN:N	27:Z2:432:ASN:H	2.13	0.46
27:Z1:58:ASN:ND2	27:Z1:60:SER:OG	2.47	0.46
27:Z1:128:LYS:CE	27:Z1:147:GLU:CB	2.77	0.46
27:Z1:300:THR:N	27:Z1:318:SER:O	2.31	0.46
27:Z1:577:LEU:O	27:Z1:581:PHE:CD2	2.69	0.46
27:Z2:52:SER:O	27:Z2:53:LEU:CD2	2.64	0.46
27:Z2:131:LEU:CB	27:Z2:187:PHE:HE2	2.27	0.46
27:Z2:441:SER:OG	27:Z2:444:THR:OG1	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1220:PRO:HB2	1:A1:599:ARG:HE	1.26	0.46
4:D1:464:ARG:HD2	4:D1:803:LEU:O	2.15	0.46
6:F1:166:THR:H	9:I1:1331:LYS:HZ2	1.64	0.46
6:F1:1049:GLN:CB	9:I1:1388:GLU:N	2.77	0.46
6:F1:1265:GLN:CA	15:O2:252:VAL:HA	2.26	0.46
6:F2:332:VAL:O	6:F2:336:ALA:N	2.48	0.46
9:I1:910:LYS:CE	13:M1:546:ARG:HH21	2.27	0.46
9:I1:1046:HIS:O	15:O1:171:ASP:OD2	2.33	0.46
9:I2:965:ALA:N	16:P3:152:LYS:CB	2.76	0.46
9:I2:965:ALA:N	16:P3:152:LYS:HB2	2.30	0.46
17:Q1:693:LEU:HD11	17:Q1:761:ASN:HD21	1.80	0.46
17:Q1:697:ASP:O	17:Q1:701:VAL:HG23	2.16	0.46
17:Q1:849:GLU:O	17:Q1:853:LYS:HG2	2.16	0.46
17:Q1:906:ILE:CD1	17:Q1:923:HIS:CD2	2.99	0.46
17:Q1:971:ILE:HG22	17:Q1:972:CYS:O	2.16	0.46
17:Q1:988:VAL:HG13	17:Q1:989:GLU:N	2.31	0.46
17:Q2:116:ASP:CG	17:Q2:117:THR:H	2.19	0.46
17:Q2:140:LEU:HD23	17:Q2:141:THR:CA	2.45	0.46
17:Q2:782:ASP:O	17:Q2:786:LEU:HD22	2.15	0.46
17:Q2:820:THR:HG23	17:Q2:821:LEU:N	2.29	0.46
17:Q2:933:LEU:HD23	19:R2:711:LEU:C	2.35	0.46
17:Q2:960:ILE:HA	17:Q2:963:LYS:HE2	1.95	0.46
18:R1:431:ILE:H	18:R1:431:ILE:CD1	2.28	0.46
18:R1:468:LEU:O	18:R1:469:ARG:HB2	2.16	0.46
19:R2:431:ILE:HD12	19:R2:431:ILE:N	2.30	0.46
20:S2:178:THR:HG22	20:S2:180:LEU:H	1.81	0.46
20:S2:570:MET:CB	21:T2:85:GLU:HA	2.45	0.46
21:T2:12:ILE:HG23	21:T2:27:CYS:O	2.15	0.46
22:U1:16:VAL:HG12	22:U1:63:TRP:HD1	1.80	0.46
25:X1:655:PHE:CE2	27:Z1:545:LEU:C	2.89	0.46
25:X2:714:PHE:CE1	25:X2:718:THR:OG1	2.69	0.46
26:Y2:1305:GLN:HG2	27:Z2:599:MET:HG2	1.98	0.46
26:Y2:1305:GLN:CD	27:Z2:599:MET:HG3	2.34	0.46
27:Z1:85:ASP:O	27:Z1:127:ILE:HG12	2.16	0.46
27:Z1:280:LYS:HE2	27:Z1:338:ASP:C	2.36	0.46
27:Z1:328:PHE:O	27:Z1:349:VAL:N	2.38	0.46
27:Z1:634:ILE:O	27:Z1:638:ILE:CG1	2.63	0.46
27:Z2:133:HIS:NE2	27:Z2:213:PRO:HD3	2.31	0.46
27:Z2:294:LEU:HD11	27:Z2:325:ILE:CD1	2.43	0.46
27:Z2:328:PHE:O	27:Z2:349:VAL:N	2.39	0.46
27:Z2:342:TYR:CD2	27:Z2:342:TYR:C	2.87	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:634:ILE:O	27:Z2:638:ILE:CG1	2.63	0.46
4:D4:615:TYR:CD2	4:D4:641:CYS:HB3	2.51	0.46
4:D4:1019:ARG:NE	4:D4:1079:GLU:OE1	2.49	0.46
6:F1:1528:ALA:O	1:A1:1099:GLN:CD	2.54	0.46
9:I1:917:TYR:HH	13:M1:534:GLN:C	1.97	0.46
9:I1:1254:VAL:HG23	15:O1:259:ASP:N	2.29	0.46
9:I2:925:LEU:HD13	15:O3:182:THR:C	2.28	0.46
9:I2:1100:ILE:C	15:O3:272:SER:HB2	2.36	0.46
13:M2:605:THR:O	15:O2:261:LYS:NZ	2.43	0.46
17:Q1:528:GLU:HB2	17:Q1:579:ILE:CG2	2.46	0.46
17:Q1:660:SER:O	17:Q1:663:GLN:HB2	2.16	0.46
17:Q1:867:GLN:HG3	17:Q1:869:ASP:N	2.09	0.46
17:Q1:928:LYS:NZ	18:R1:695:ALA:HB1	2.30	0.46
17:Q2:228:ILE:HD11	17:Q2:248:LEU:CB	2.45	0.46
17:Q2:332:LYS:CE	17:Q2:352:TYR:HE2	2.23	0.46
17:Q2:334:TRP:CZ3	17:Q2:396:LYS:HB3	2.50	0.46
17:Q2:598:ILE:HG23	17:Q2:599:LYS:N	2.31	0.46
17:Q2:988:VAL:HG13	17:Q2:989:GLU:N	2.31	0.46
18:R1:8:GLN:O	18:R1:10:GLU:N	2.48	0.46
18:R1:711:LEU:CB	18:R1:714:TYR:HE2	2.29	0.46
19:R2:86:ASN:OD1	19:R2:400:ASN:ND2	2.48	0.46
19:R2:207:SER:O	19:R2:211:ILE:HG13	2.16	0.46
24:W1:247:ASP:HB2	24:W1:254:ILE:HG13	1.98	0.46
25:X1:648:LEU:HD21	27:Z1:535:PHE:HE1	1.79	0.46
25:X2:821:ILE:CG2	25:X2:821:ILE:O	2.64	0.46
27:Z1:34:ARG:CB	27:Z1:95:TRP:CH2	2.98	0.46
27:Z1:52:SER:O	27:Z1:53:LEU:CD2	2.63	0.46
27:Z1:197:LEU:CD2	27:Z1:302:ILE:HG23	2.42	0.46
27:Z2:316:CYS:SG	27:Z2:326:LEU:CD1	3.04	0.46
1:A2:1196:GLU:O	1:A1:592:ASP:N	2.48	0.46
1:A2:1331:GLU:O	4:D1:903:ILE:CG1	2.53	0.46
1:A3:945:ARG:NH2	9:I2:817:ASP:N	2.64	0.46
4:D1:529:TYR:OH	4:D1:533:ARG:NH1	2.49	0.46
4:D1:1075:LEU:HD22	4:D1:1075:LEU:O	2.15	0.46
4:D2:529:TYR:OH	4:D2:533:ARG:NH1	2.48	0.46
4:D4:1075:LEU:HD22	4:D4:1075:LEU:O	2.15	0.46
6:F2:1267:ARG:NH2	15:O4:263:GLN:H	2.13	0.46
9:I1:767:ASP:CG	13:M1:546:ARG:HH11	2.19	0.46
9:I1:910:LYS:O	13:M1:545:GLU:OE2	2.34	0.46
9:I2:976:ARG:HD3	14:N3:297:ALA:HB2	1.97	0.46
17:Q1:94:ILE:O	17:Q1:94:ILE:HG12	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:529:HIS:HA	17:Q1:532:LYS:HE2	1.97	0.46
17:Q1:658:PHE:HB2	17:Q1:659:PRO:HD3	1.98	0.46
17:Q1:782:ASP:O	17:Q1:786:LEU:HD22	2.15	0.46
17:Q1:984:PHE:HD1	17:Q1:1008:MET:CE	2.29	0.46
17:Q2:697:ASP:O	17:Q2:701:VAL:HG23	2.16	0.46
17:Q2:906:ILE:HG13	17:Q2:907:THR:N	2.31	0.46
18:R1:528:HIS:CE1	18:R1:576:ASN:HB3	2.50	0.46
19:R2:532:ALA:HB2	19:R2:535:ARG:NH2	2.31	0.46
19:R2:664:LEU:HD13	19:R2:694:VAL:HG22	1.96	0.46
20:S2:151:PHE:HB2	21:T2:259:ARG:NH1	2.30	0.46
21:T1:18:ASP:OD1	21:T1:18:ASP:N	2.46	0.46
21:T1:95:HIS:NE2	21:T1:138:PRO:HB3	2.31	0.46
22:U2:312:TRP:CE2	22:U2:319:LEU:HD13	2.50	0.46
23:V1:392:GLN:HB3	23:V1:393:PRO:HD3	1.97	0.46
25:X1:751:LEU:CD1	27:Z1:638:ILE:CG1	2.60	0.46
25:X1:821:ILE:CG2	25:X1:821:ILE:O	2.64	0.46
25:X2:794:ILE:HG13	25:X2:795:LYS:N	2.31	0.46
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:HG	1.97	0.46
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CD1	2.28	0.46
27:Z1:316:CYS:SG	27:Z1:326:LEU:CD1	3.04	0.46
27:Z1:356:LEU:CD1	27:Z1:358:ARG:NH2	2.61	0.46
27:Z2:101:GLU:O	27:Z2:102:ASP:C	2.54	0.46
27:Z2:128:LYS:CE	27:Z2:147:GLU:CB	2.77	0.46
27:Z2:131:LEU:CB	27:Z2:187:PHE:CE2	2.99	0.46
27:Z2:216:LEU:O	27:Z2:269:LYS:HG2	2.15	0.46
27:Z2:327:LEU:HD13	27:Z2:348:LEU:HD13	1.98	0.46
1:A2:1225:PRO:HB3	1:A1:594:LEU:HD13	1.67	0.46
1:A3:1070:ASP:HA	9:I2:1238:LYS:HZ3	1.81	0.46
1:A3:1223:GLU:CB	1:A4:644:ALA:HA	2.46	0.46
4:D1:1019:ARG:NE	4:D1:1079:GLU:OE1	2.49	0.46
4:D2:839:ASP:OD2	4:D2:947:SER:CB	2.64	0.46
4:D2:916:ILE:HD11	4:D2:1049:TRP:NE1	2.31	0.46
4:D4:977:GLU:N	4:D4:978:PRO:HD2	2.31	0.46
6:F1:1133:ARG:NH2	6:F1:1194:ASP:OD1	2.49	0.46
6:F1:1570:GLN:O	6:F1:1573:ASN:ND2	2.48	0.46
6:F1:1571:VAL:O	6:F1:1574:ILE:HG13	2.16	0.46
6:F2:1569:VAL:HG23	6:F2:1570:GLN:N	2.31	0.46
7:G1:255:LEU:C	15:O2:245:GLU:HB2	2.29	0.46
9:I2:976:ARG:HD3	14:N3:297:ALA:N	2.30	0.46
15:O2:90:HIS:N	15:O2:91:PRO:CD	2.79	0.46
17:Q1:100:ASN:OD1	17:Q1:105:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:268:VAL:HG12	17:Q1:335:ASP:HA	1.98	0.46
17:Q1:288:ASN:OD1	17:Q1:332:LYS:HD3	2.15	0.46
17:Q1:527:ILE:HG12	17:Q1:530:ASP:H	1.80	0.46
17:Q1:743:LEU:HA	17:Q1:746:VAL:HG12	1.97	0.46
17:Q1:992:LYS:HG3	17:Q1:993:SER:N	2.30	0.46
17:Q1:1071:PRO:HG3	17:Q1:1155:VAL:HG21	1.97	0.46
17:Q2:610:LEU:CD1	17:Q2:614:TRP:CZ3	2.96	0.46
17:Q2:814:LEU:CD1	17:Q2:815:VAL:HG12	2.46	0.46
17:Q2:836:PHE:CD2	17:Q2:842:GLU:HG3	2.49	0.46
17:Q2:971:ILE:HG22	17:Q2:972:CYS:O	2.16	0.46
18:R1:436:LEU:HA	18:R1:449:LEU:CA	2.40	0.46
18:R1:527:VAL:HA	18:R1:530:ILE:HG22	1.97	0.46
19:R2:219:LEU:HD22	19:R2:227:ILE:HG12	1.98	0.46
22:U2:296:LEU:HD21	22:U2:299:GLU:HG3	1.98	0.46
23:V1:226:GLN:O	23:V1:230:VAL:HG23	2.15	0.46
23:V2:152:LEU:HD22	23:V2:179:LEU:HD12	1.97	0.46
25:X1:655:PHE:CE2	27:Z1:546:GLY:N	2.84	0.46
25:X1:714:PHE:HE2	26:Y1:1313:ALA:HA	1.80	0.46
25:X1:790:ASN:OD1	27:Z1:669:THR:C	2.54	0.46
25:X2:775:THR:CB	25:X2:794:ILE:HD12	2.25	0.46
25:X2:818:ILE:HD12	26:Y2:1405:GLN:HG3	1.75	0.46
26:Y1:1306:ILE:O	26:Y1:1310:VAL:CG2	2.50	0.46
27:Z1:123:PRO:CD	27:Z1:124:LYS:HG2	2.42	0.46
27:Z1:182:ILE:CD1	27:Z1:198:ASN:CG	2.84	0.46
27:Z1:182:ILE:HD12	27:Z1:197:LEU:O	2.16	0.46
27:Z1:196:CYS:N	27:Z1:206:PHE:O	2.25	0.46
27:Z1:401:ASP:CG	27:Z2:260:HIS:O	2.53	0.46
27:Z1:542:ALA:H	27:Z2:551:ASN:CA	2.28	0.46
27:Z2:14:GLN:HA	27:Z2:15:ALA:CB	2.44	0.46
27:Z2:316:CYS:HB3	27:Z2:324:LEU:HD11	1.98	0.46
27:Z2:429:ILE:CB	27:Z2:436:ASN:OD1	2.43	0.46
27:Z2:577:LEU:O	27:Z2:581:PHE:CD2	2.69	0.46
27:Z2:625:HIS:HE1	27:Z2:629:LYS:HG3	1.80	0.46
1:A2:1221:ILE:CB	1:A1:600:LYS:CG	2.94	0.46
4:D3:977:GLU:N	4:D3:978:PRO:HD2	2.31	0.46
4:D3:1019:ARG:NE	4:D3:1079:GLU:OE1	2.49	0.46
4:D3:1075:LEU:HD22	4:D3:1075:LEU:O	2.15	0.46
6:F1:1569:VAL:HG23	6:F1:1570:GLN:N	2.31	0.46
6:F2:1133:ARG:NH2	6:F2:1194:ASP:OD1	2.49	0.46
9:I1:504:ALA:CB	9:I1:508:LEU:HD23	2.46	0.46
9:I1:1359:ASP:O	15:O1:266:GLN:CD	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1036:PHE:CE1	17:Q1:1090:LEU:HD23	2.50	0.46
17:Q2:100:ASN:OD1	17:Q2:105:VAL:HG13	2.16	0.46
17:Q2:280:THR:HG23	17:Q2:280:THR:O	2.16	0.46
17:Q2:475:LEU:HD12	17:Q2:475:LEU:N	2.31	0.46
18:R1:532:ALA:HB2	18:R1:535:ARG:NH2	2.30	0.46
19:R2:530:ILE:HD11	19:R2:549:PHE:O	2.16	0.46
20:S1:526:HIS:C	20:S1:530:ARG:HD2	2.36	0.46
20:S2:392:TYR:O	20:S2:394:GLN:N	2.44	0.46
21:T1:257:LEU:HA	21:T1:273:GLY:HA2	1.98	0.46
22:U1:208:LEU:HD11	22:U1:231:ILE:HD11	1.97	0.46
22:U2:16:VAL:HG12	22:U2:63:TRP:HD1	1.81	0.46
23:V1:249:LEU:O	23:V1:253:VAL:HG23	2.15	0.46
23:V2:226:GLN:O	23:V2:230:VAL:HG23	2.15	0.46
24:W2:490:VAL:HG22	24:W2:590:GLN:HG3	1.98	0.46
25:X1:700:ILE:HD13	26:Y1:1295:VAL:HG12	1.98	0.46
25:X2:655:PHE:CE2	27:Z2:546:GLY:N	2.84	0.46
25:X2:676:ILE:HD11	26:Y2:1274:ASN:HD21	1.75	0.46
25:X2:692:LYS:HE2	27:Z2:46:TYR:CE2	2.50	0.46
26:Y1:1387:LYS:HE2	26:Y2:1361:GLU:CD	2.34	0.46
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:HD21	2.51	0.46
27:Z1:103:VAL:HG13	27:Z1:104:SER:N	2.29	0.46
27:Z2:182:ILE:HD12	27:Z2:197:LEU:O	2.16	0.46
1:A2:1194:HIS:O	1:A1:591:ASP:OD1	2.34	0.46
1:A2:1275:PRO:HD3	1:A1:727:ASN:CG	2.36	0.46
1:A2:1284:ASN:HD22	1:A1:635:ARG:HB2	1.72	0.46
1:A3:1084:ARG:HG2	4:D3:1095:ARG:HE	1.81	0.46
4:D4:839:ASP:OD2	4:D4:947:SER:CB	2.64	0.46
4:D4:1077:MET:SD	4:D4:1077:MET:N	2.89	0.46
6:F1:137:ASN:H	9:I1:1389:GLN:HG2	1.49	0.46
6:F2:137:ASN:C	9:I2:1391:THR:HB	2.21	0.46
9:I1:1046:HIS:CE1	15:O1:171:ASP:OD2	2.67	0.46
9:I1:1049:LEU:H	15:O1:171:ASP:N	2.14	0.46
15:O3:108:VAL:N	15:O3:109:PRO:CD	2.79	0.46
17:Q1:280:THR:HG23	17:Q1:280:THR:O	2.16	0.46
17:Q1:313:TYR:O	17:Q1:316:ILE:HG12	2.15	0.46
17:Q1:334:TRP:CZ3	17:Q1:396:LYS:HB3	2.50	0.46
17:Q1:366:ILE:CD1	17:Q1:377:ILE:CD1	2.94	0.46
17:Q1:451:ASN:OD1	17:Q1:556:HIS:CE1	2.68	0.46
17:Q1:598:ILE:HG23	17:Q1:599:LYS:N	2.31	0.46
17:Q1:725:PHE:CD1	17:Q1:744:LYS:HE3	2.50	0.46
17:Q1:725:PHE:CD2	17:Q1:744:LYS:HG3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:814:LEU:HD12	17:Q1:815:VAL:HG13	1.98	0.46
17:Q2:69:VAL:CG1	17:Q2:477:PHE:CD1	2.96	0.46
17:Q2:196:LEU:HD13	17:Q2:197:GLU:C	2.36	0.46
17:Q2:417:LEU:CD1	17:Q2:465:LEU:HB2	2.44	0.46
17:Q2:528:GLU:HB2	17:Q2:579:ILE:CG2	2.46	0.46
17:Q2:612:ASP:CA	17:Q2:642:PHE:HE1	2.29	0.46
17:Q2:684:GLU:HA	17:Q2:688:THR:HG1	1.77	0.46
17:Q2:705:LYS:HZ1	17:Q2:710:ILE:HG21	1.80	0.46
17:Q2:743:LEU:HA	17:Q2:746:VAL:HG12	1.97	0.46
17:Q2:843:PHE:CE1	17:Q2:875:PHE:HZ	2.22	0.46
17:Q2:984:PHE:HD1	17:Q2:1008:MET:CE	2.29	0.46
17:Q2:992:LYS:HG3	17:Q2:993:SER:N	2.29	0.46
18:R1:527:VAL:HG23	18:R1:580:PHE:CG	2.51	0.46
19:R2:293:ILE:HD11	19:R2:327:VAL:HG21	1.97	0.46
19:R2:431:ILE:H	19:R2:431:ILE:CD1	2.28	0.46
20:S1:178:THR:HG22	20:S1:180:LEU:H	1.81	0.46
21:T2:16:VAL:HG21	21:T2:59:VAL:O	2.16	0.46
25:X1:693:ILE:HD11	26:Y1:1292:LYS:HG2	1.98	0.46
25:X1:721:LEU:CB	27:Z1:612:ILE:HD13	2.46	0.46
26:Y1:1409:LEU:C	27:Z1:711:LYS:HZ3	2.17	0.46
26:Y2:1221:VAL:CG1	27:Z2:536:LEU:CD2	2.83	0.46
26:Y2:1294:LYS:CD	27:Z2:588:TRP:NE1	2.45	0.46
27:Z1:131:LEU:CB	27:Z1:187:PHE:CE2	2.99	0.46
27:Z2:297:TYR:CZ	27:Z2:321:ASP:CG	2.74	0.46
27:Z2:592:LEU:HD22	27:Z2:595:GLN:OE1	2.16	0.46
27:Z2:605:LEU:O	27:Z2:609:LEU:HG	2.15	0.46
1:A2:1328:ARG:HB3	4:D1:976:ARG:HH11	0.46	0.45
4:D1:615:TYR:CD2	4:D1:641:CYS:HB3	2.51	0.45
4:D1:839:ASP:OD2	4:D1:947:SER:CB	2.64	0.45
4:D1:977:GLU:N	4:D1:978:PRO:HD2	2.31	0.45
9:I1:913:ALA:O	13:M1:541:LEU:CD2	2.64	0.45
9:I1:919:ALA:CB	15:O1:190:ARG:NH1	2.73	0.45
9:I1:1182:GLN:CG	10:J1:245:GLU:OE2	2.51	0.45
9:I2:976:ARG:CA	14:N3:297:ALA:N	2.46	0.45
14:N1:284:PRO:HA	14:N1:287:VAL:HG12	1.98	0.45
14:N3:267:GLU:HB2	14:N4:334:LEU:O	1.99	0.45
17:Q1:461:ASP:CG	17:Q1:462:SER:H	2.19	0.45
17:Q1:657:LEU:HD23	17:Q1:657:LEU:N	2.28	0.45
17:Q1:696:LEU:CD1	17:Q1:700:GLU:CG	2.94	0.45
17:Q2:268:VAL:HG12	17:Q2:335:ASP:HA	1.98	0.45
17:Q2:294:THR:HG23	17:Q2:294:THR:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:725:PHE:CD1	17:Q2:744:LYS:HE3	2.50	0.45
17:Q2:814:LEU:HD12	17:Q2:815:VAL:HG12	1.98	0.45
17:Q2:866:GLN:CA	17:Q2:870:VAL:HG23	2.43	0.45
18:R1:479:THR:HB	18:R1:483:VAL:HG21	1.97	0.45
18:R1:482:ARG:CB	18:R1:516:TRP:CZ2	2.94	0.45
18:R1:707:SER:O	18:R1:711:LEU:HB2	2.16	0.45
20:S1:156:THR:HG22	20:S1:514:ARG:CD	2.45	0.45
22:U1:206:ALA:C	27:Z1:665:ILE:N	2.66	0.45
23:V1:322:THR:HG23	23:V1:329:ARG:HD3	1.97	0.45
23:V2:268:SER:HB2	23:V2:269:ASP:OD1	2.16	0.45
26:Y1:1409:LEU:N	27:Z1:711:LYS:HZ3	2.12	0.45
27:Z1:63:LEU:HG	27:Z1:65:LEU:CD2	2.46	0.45
27:Z1:325:ILE:CG2	27:Z1:327:LEU:CD2	2.94	0.45
27:Z1:362:SER:OG	27:Z1:376:ILE:HD12	2.17	0.45
27:Z2:343:VAL:O	27:Z2:346:ASN:HB2	2.16	0.45
27:Z2:360:ILE:HG23	27:Z2:375:VAL:HG13	1.97	0.45
27:Z2:362:SER:OG	27:Z2:376:ILE:HD12	2.17	0.45
4:D2:930:VAL:HG21	4:D2:940:ALA:HB3	1.99	0.45
6:F1:138:ILE:HG22	9:I1:1392:VAL:CA	2.46	0.45
6:F1:535:ILE:CG1	6:F1:536:PRO:HD2	2.46	0.45
7:G2:252:LEU:HB3	15:O4:248:SER:HA	1.97	0.45
9:I1:961:ARG:C	15:O1:186:PHE:H	2.20	0.45
9:I1:1426:SER:CB	10:J1:263:MET:SD	3.04	0.45
9:I2:968:PRO:HA	16:P3:149:ARG:HB2	1.98	0.45
9:I2:976:ARG:HH12	16:P3:141:ALA:CB	2.22	0.45
9:I2:1030:ARG:N	13:M3:613:ASP:N	2.55	0.45
9:I2:1033:PRO:HB3	13:M3:614:ASP:O	2.10	0.45
9:I2:1048:GLU:HA	14:N3:293:LYS:HD3	1.99	0.45
9:I2:1107:SER:HA	15:O3:280:GLU:HB3	1.71	0.45
10:J1:252:LEU:HD23	15:O1:270:THR:HA	1.97	0.45
17:Q1:89:TYR:CE1	17:Q1:398:LYS:HE3	2.51	0.45
17:Q1:612:ASP:CA	17:Q1:642:PHE:HE1	2.29	0.45
17:Q1:811:LEU:CD1	17:Q1:814:LEU:CD2	2.94	0.45
17:Q1:922:LEU:HD23	18:R1:688:LEU:HD22	1.96	0.45
17:Q2:332:LYS:CB	17:Q2:352:TYR:CE2	2.94	0.45
17:Q2:498:VAL:HG13	17:Q2:499:ASP:N	2.31	0.45
17:Q2:528:GLU:CB	17:Q2:579:ILE:CD1	2.94	0.45
19:R2:159:ASP:OD2	20:S2:319:LEU:HB2	2.16	0.45
19:R2:650:GLU:O	19:R2:654:GLU:HG3	2.16	0.45
21:T2:16:VAL:HG23	21:T2:59:VAL:HG23	1.98	0.45
23:V1:268:SER:HB2	23:V1:269:ASP:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:268:SER:O	23:V1:272:PRO:HG2	2.16	0.45
23:V2:249:LEU:O	23:V2:253:VAL:HG23	2.15	0.45
25:X2:695:GLN:N	27:Z2:431:TRP:CB	2.79	0.45
25:X2:697:LEU:HB2	27:Z2:432:ASN:CG	2.36	0.45
26:Y1:1277:LYS:HE3	27:Z1:570:ILE:C	2.32	0.45
26:Y1:1443:MET:HE3	27:Z1:332:GLU:OE1	0.64	0.45
27:Z1:131:LEU:HB3	27:Z1:187:PHE:HE2	1.81	0.45
27:Z1:343:VAL:O	27:Z1:346:ASN:HB2	2.16	0.45
27:Z2:123:PRO:CA	27:Z2:123:PRO:N	2.78	0.45
27:Z2:131:LEU:HB3	27:Z2:187:PHE:HE2	1.81	0.45
27:Z2:263:TRP:CD1	27:Z2:270:VAL:HG23	2.51	0.45
27:Z2:280:LYS:HE2	27:Z2:338:ASP:C	2.36	0.45
27:Z2:578:ARG:HA	27:Z2:581:PHE:HD2	1.81	0.45
1:A3:1327:VAL:HG23	4:D3:872:LEU:CB	2.41	0.45
1:A3:1401:VAL:C	4:D3:873:GLN:NE2	2.65	0.45
1:A4:773:PHE:CZ	1:A4:818:LEU:HD12	2.48	0.45
4:D2:1075:LEU:HD22	4:D2:1075:LEU:O	2.15	0.45
5:E3:67:ASP:HA	6:F2:1658:TYR:OH	2.13	0.45
6:F1:982:PRO:HB3	9:I1:1455:ARG:HB2	1.96	0.45
6:F1:1807:GLU:C	14:N2:411:GLN:NE2	2.68	0.45
6:F2:1267:ARG:HE	15:O4:259:ASP:CG	2.20	0.45
9:I2:886:LEU:HA	13:M3:594:LYS:HD3	1.85	0.45
10:J2:249:ASP:CA	14:N3:428:ASP:OD1	2.65	0.45
14:N2:284:PRO:HA	14:N2:287:VAL:HG12	1.98	0.45
14:N4:284:PRO:HA	14:N4:287:VAL:HG12	1.98	0.45
17:Q1:313:TYR:HA	17:Q1:316:ILE:HG12	1.98	0.45
17:Q1:362:ILE:HD12	17:Q1:362:ILE:O	2.17	0.45
17:Q1:746:VAL:HG22	17:Q1:750:TYR:CE2	2.41	0.45
17:Q1:975:PHE:CD1	17:Q1:980:ILE:CD1	2.95	0.45
17:Q2:631:THR:HG23	17:Q2:634:VAL:CG1	2.45	0.45
17:Q2:792:LEU:HD12	17:Q2:792:LEU:N	2.32	0.45
17:Q2:847:LEU:CD2	17:Q2:875:PHE:HD2	2.19	0.45
17:Q2:849:GLU:O	17:Q2:853:LYS:HG2	2.15	0.45
17:Q2:1016:PHE:HD2	17:Q2:1064:ARG:HH21	1.63	0.45
18:R1:284:SER:O	18:R1:288:ILE:HG12	2.16	0.45
18:R1:314:ILE:HD12	20:S1:309:LYS:HE3	1.98	0.45
18:R1:445:CYS:CB	18:R1:468:LEU:HD23	2.46	0.45
18:R1:715:LEU:HD23	18:R1:715:LEU:C	2.36	0.45
19:R2:284:SER:O	19:R2:288:ILE:HG12	2.16	0.45
19:R2:527:VAL:HG23	19:R2:580:PHE:CG	2.51	0.45
19:R2:711:LEU:CB	19:R2:714:TYR:HE2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:T1:16:VAL:HG21	21:T1:59:VAL:O	2.16	0.45
22:U2:208:LEU:HD11	22:U2:231:ILE:CD1	2.46	0.45
24:W1:130:THR:O	24:W1:150:PHE:HA	2.17	0.45
24:W2:623:LEU:HD23	24:W2:623:LEU:HA	1.74	0.45
25:X1:643:LYS:HB3	25:X1:647:GLN:HE21	1.81	0.45
25:X2:643:LYS:HB3	25:X2:647:GLN:HE21	1.81	0.45
25:X2:704:GLN:O	25:X2:708:GLU:HG3	2.16	0.45
25:X2:815:GLU:CB	26:Y2:1402:LEU:CD2	2.43	0.45
26:Y1:1335:SER:HB2	26:Y1:1339:PHE:CZ	2.50	0.45
26:Y1:1383:ALA:HB3	26:Y2:1364:ASN:HB2	1.79	0.45
26:Y2:1294:LYS:HE2	27:Z2:588:TRP:CD1	2.33	0.45
27:Z1:25:TYR:C	27:Z1:440:MET:HE3	2.36	0.45
27:Z2:416:ASP:CG	27:Z2:569:LYS:NZ	2.69	0.45
27:Z2:522:GLU:CG	27:Z2:523:ASN:C	2.83	0.45
27:Z2:699:GLU:O	27:Z2:703:GLN:HG3	2.16	0.45
4:D2:615:TYR:CD2	4:D2:641:CYS:HB3	2.51	0.45
4:D3:464:ARG:HD2	4:D3:803:LEU:O	2.15	0.45
6:F1:138:ILE:CA	9:I1:1392:VAL:CG2	2.54	0.45
6:F2:1832:ASN:OD1	6:F2:1833:ARG:HG3	2.16	0.45
9:I1:1083:GLU:OE1	9:I1:1083:GLU:N	2.42	0.45
9:I2:1109:LEU:CB	15:O3:284:LYS:CE	2.93	0.45
9:I2:1361:ALA:O	9:I2:1365:ALA:N	2.50	0.45
17:Q1:116:ASP:CG	17:Q1:117:THR:H	2.18	0.45
17:Q1:216:PRO:HD2	17:Q1:281:ARG:CZ	2.46	0.45
17:Q1:527:ILE:CG1	17:Q1:530:ASP:CB	2.95	0.45
17:Q1:615:GLU:HA	17:Q1:645:ILE:HG12	1.98	0.45
17:Q1:709:PHE:N	17:Q1:709:PHE:HD1	2.14	0.45
17:Q1:715:LEU:O	17:Q1:716:ASN:HB3	2.16	0.45
17:Q1:814:LEU:HD12	17:Q1:815:VAL:CA	2.44	0.45
17:Q1:870:VAL:C	17:Q1:873:GLN:HG2	2.35	0.45
17:Q2:684:GLU:C	17:Q2:688:THR:HB	2.37	0.45
17:Q2:888:ILE:HG23	17:Q2:889:GLN:N	2.30	0.45
17:Q2:1155:VAL:HG23	17:Q2:1155:VAL:O	2.16	0.45
18:R1:613:ILE:HG23	18:R1:614:PRO:CD	2.43	0.45
18:R1:667:LEU:HD13	18:R1:671:LEU:HG	1.98	0.45
21:T2:116:LEU:O	21:T2:127:VAL:HA	2.16	0.45
22:U1:312:TRP:CE2	22:U1:319:LEU:HD13	2.50	0.45
23:V1:97:ARG:NH2	23:V1:411:SER:O	2.50	0.45
23:V2:268:SER:O	23:V2:272:PRO:HG2	2.16	0.45
25:X1:795:LYS:CG	27:Z1:665:ILE:HG21	2.32	0.45
27:Z1:226:ILE:HG22	27:Z1:256:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:342:TYR:CD2	27:Z1:342:TYR:C	2.87	0.45
27:Z2:38:ILE:HG12	27:Z2:43:ILE:CD1	2.47	0.45
27:Z2:93:VAL:O	27:Z2:94:PRO:CG	2.53	0.45
27:Z2:129:LYS:HZ3	27:Z2:185:LEU:CB	2.06	0.45
27:Z2:226:ILE:HG22	27:Z2:256:VAL:HG11	1.99	0.45
27:Z2:363:LEU:HG	27:Z2:373:LEU:CD1	2.40	0.45
1:A3:1399:ARG:NH2	4:D3:866:PHE:HA	2.29	0.45
4:D1:916:ILE:HD11	4:D1:1049:TRP:NE1	2.31	0.45
4:D2:977:GLU:N	4:D2:978:PRO:HD2	2.31	0.45
4:D4:916:ILE:HD11	4:D4:1049:TRP:NE1	2.31	0.45
6:F1:138:ILE:CB	9:I1:1392:VAL:HG22	2.09	0.45
6:F1:138:ILE:N	9:I1:1392:VAL:CB	2.78	0.45
6:F1:511:ALA:O	6:F1:1008:TYR:N	2.43	0.45
6:F1:1643:CYS:SG	6:F1:1644:ASP:N	2.90	0.45
9:I1:912:VAL:C	13:M1:541:LEU:HD22	2.33	0.45
9:I1:978:LYS:CD	13:M1:524:GLU:HG2	2.46	0.45
9:I2:504:ALA:CB	9:I2:508:LEU:HD23	2.46	0.45
9:I2:978:LYS:HG3	15:O3:177:HIS:HD2	1.80	0.45
9:I2:1031:ALA:O	13:M3:618:GLN:HG3	2.16	0.45
9:I2:1107:SER:N	13:M3:615:PRO:CG	2.79	0.45
14:N3:264:ARG:HG2	14:N4:334:LEU:CD2	2.26	0.45
17:Q1:684:GLU:C	17:Q1:688:THR:HB	2.36	0.45
17:Q1:718:ILE:CG2	17:Q1:722:PHE:CE1	2.95	0.45
17:Q1:866:GLN:CA	17:Q1:870:VAL:HG23	2.43	0.45
17:Q1:1016:PHE:HD2	17:Q1:1064:ARG:HH21	1.63	0.45
17:Q2:181:ILE:C	17:Q2:183:ASN:H	2.20	0.45
17:Q2:216:PRO:HD2	17:Q2:281:ARG:CZ	2.46	0.45
17:Q2:715:LEU:O	17:Q2:716:ASN:HB3	2.16	0.45
17:Q2:888:ILE:HD13	17:Q2:888:ILE:C	2.37	0.45
17:Q2:1043:ARG:NH2	17:Q2:1117:ILE:HD11	2.32	0.45
17:Q2:1122:THR:HG23	17:Q2:1123:LEU:N	2.31	0.45
18:R1:575:GLU:HG3	18:R1:641:SER:OG	2.17	0.45
21:T1:116:LEU:O	21:T1:127:VAL:HA	2.16	0.45
25:X2:773:SER:CB	25:X2:797:LEU:HD21	2.43	0.45
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:CB	2.78	0.45
27:Z1:428:TYR:CD2	27:Z1:428:TYR:C	2.88	0.45
27:Z2:102:ASP:HB2	27:Z2:105:ILE:HD12	1.99	0.45
27:Z2:241:THR:CG2	27:Z2:246:LYS:CE	2.91	0.45
1:A2:1221:ILE:CG1	1:A1:600:LYS:HG3	2.46	0.45
1:A2:1226:LEU:HD22	1:A1:646:ILE:HB	1.99	0.45
4:D1:435:ARG:H	4:D1:435:ARG:HG2	1.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D3:839:ASP:OD2	4:D3:947:SER:CB	2.64	0.45
6:F1:135:VAL:HG12	9:I1:1392:VAL:HG11	1.97	0.45
6:F1:160:SER:N	9:I1:1335:LYS:HA	2.32	0.45
6:F1:1832:ASN:OD1	6:F1:1833:ARG:HG3	2.16	0.45
9:I1:1048:GLU:CA	15:O1:171:ASP:N	2.69	0.45
9:I2:906:GLY:C	13:M3:573:ARG:HH11	2.19	0.45
9:I2:1426:SER:CB	10:J2:263:MET:SD	3.04	0.45
15:O3:90:HIS:N	15:O3:91:PRO:CD	2.79	0.45
17:Q1:283:VAL:CG2	17:Q1:297:LEU:HD11	2.44	0.45
17:Q1:298:SER:HB2	17:Q1:304:PRO:HD3	1.98	0.45
17:Q1:380:THR:OG1	17:Q1:512:ILE:HD11	2.16	0.45
17:Q1:888:ILE:HD13	17:Q1:888:ILE:C	2.37	0.45
17:Q1:906:ILE:HG13	17:Q1:907:THR:N	2.31	0.45
17:Q2:528:GLU:HB3	17:Q2:579:ILE:HD12	1.98	0.45
17:Q2:539:PHE:CZ	17:Q2:567:PHE:CE2	3.05	0.45
17:Q2:690:ARG:HB3	17:Q2:690:ARG:CZ	2.47	0.45
17:Q2:1018:PRO:O	17:Q2:1022:LEU:HG	2.17	0.45
18:R1:435:PHE:HA	18:R1:448:ILE:HG12	1.99	0.45
18:R1:444:ALA:HA	18:R1:447:PHE:CD2	2.35	0.45
18:R1:635:LEU:CD1	18:R1:655:ILE:CB	2.94	0.45
19:R2:159:ASP:OD2	20:S2:319:LEU:N	2.29	0.45
19:R2:664:LEU:CD1	19:R2:690:PHE:HE1	2.28	0.45
23:V1:453:ASP:OD1	23:V1:499:ALA:HB1	2.17	0.45
23:V2:153:ASN:HA	23:V2:156:GLU:OE1	2.16	0.45
24:W1:643:ASP:OD2	24:W1:646:ILE:HG13	2.17	0.45
24:W2:177:PHE:CD1	24:W2:183:LEU:HD22	2.51	0.45
24:W2:352:ILE:HD13	24:W2:471:ILE:HG12	1.99	0.45
25:X2:700:ILE:HD13	26:Y2:1295:VAL:HG12	1.98	0.45
26:Y1:1271:ASN:O	26:Y1:1275:ASN:OD1	2.35	0.45
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CZ2	2.91	0.45
26:Y1:1435:LYS:CE	27:Z1:225:LEU:HD21	2.24	0.45
27:Z1:152:THR:OG1	27:Z1:154:PHE:CE1	2.57	0.45
27:Z1:703:GLN:O	27:Z1:707:GLU:CG	2.60	0.45
27:Z2:45:TRP:NE1	27:Z2:95:TRP:CZ3	2.47	0.45
27:Z2:128:LYS:CD	27:Z2:147:GLU:HA	2.45	0.45
27:Z2:189:LYS:HG2	27:Z2:304:THR:HG22	1.99	0.45
1:A2:939:LYS:N	1:A2:940:PRO:HD3	2.32	0.45
1:A2:1221:ILE:HG13	1:A1:596:ARG:C	2.35	0.45
1:A4:861:GLN:HB2	1:A4:882:SER:HB3	1.99	0.45
4:D1:730:TYR:N	4:D1:731:PRO:CD	2.80	0.45
4:D3:1077:MET:SD	4:D3:1077:MET:N	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:784:ARG:HG2	4:D4:787:ARG:HD3	1.99	0.45
6:F1:138:ILE:N	9:I1:1392:VAL:HG23	2.26	0.45
6:F1:159:ALA:N	9:I1:1338:PHE:C	2.40	0.45
6:F1:161:ALA:O	9:I1:1335:LYS:CA	2.61	0.45
6:F2:1267:ARG:NH2	15:O4:263:GLN:HB2	2.32	0.45
9:I1:887:GLN:OE1	15:O1:190:ARG:CZ	2.65	0.45
9:I1:1311:LEU:HB3	15:O1:265:ASN:HB3	1.98	0.45
9:I2:885:GLU:O	13:M3:594:LYS:HG3	2.17	0.45
9:I2:892:HIS:HA	13:M3:588:MET:C	2.37	0.45
9:I2:917:TYR:CZ	15:O3:187:ASN:HA	2.51	0.45
9:I2:1099:ARG:HA	15:O3:272:SER:CB	2.38	0.45
9:I2:1256:TYR:CZ	14:N3:411:GLN:NE2	2.84	0.45
9:I2:1305:LEU:HG	15:O3:260:LEU:HD12	1.93	0.45
9:I2:1584:LEU:HD21	10:J2:275:PHE:CE1	2.50	0.45
10:J1:247:ASP:CB	15:O1:277:GLU:N	2.65	0.45
14:N3:284:PRO:HA	14:N3:287:VAL:HG12	1.98	0.45
17:Q1:260:ILE:O	17:Q1:260:ILE:HG23	2.17	0.45
17:Q1:498:VAL:HG13	17:Q1:499:ASP:N	2.31	0.45
17:Q1:709:PHE:HD1	17:Q1:709:PHE:H	1.64	0.45
17:Q1:888:ILE:HG23	17:Q1:889:GLN:N	2.30	0.45
17:Q1:1018:PRO:O	17:Q1:1022:LEU:HG	2.17	0.45
17:Q2:246:LYS:HD3	17:Q2:247:LEU:H	1.76	0.45
17:Q2:725:PHE:CZ	17:Q2:741:GLY:HA2	2.51	0.45
17:Q2:801:CYS:HB2	17:Q2:818:LEU:CD1	2.47	0.45
17:Q2:885:VAL:O	17:Q2:885:VAL:HG12	2.17	0.45
17:Q2:906:ILE:CD1	17:Q2:923:HIS:CD2	2.99	0.45
18:R1:143:LYS:HG3	18:R1:144:TRP:N	2.32	0.45
18:R1:219:LEU:HD22	18:R1:227:ILE:HG12	1.98	0.45
18:R1:701:ILE:HA	18:R1:704:LEU:HD23	1.98	0.45
19:R2:314:ILE:HD12	20:S2:309:LYS:HE3	1.98	0.45
20:S1:360:LYS:HG3	20:S1:366:PRO:HA	1.97	0.45
20:S2:156:THR:HG22	20:S2:514:ARG:CD	2.45	0.45
22:U2:140:LEU:O	22:U2:142:PRO:HD3	2.15	0.45
23:V1:406:LEU:HB2	23:V1:407:PRO:HD3	1.98	0.45
23:V2:453:ASP:OD1	23:V2:499:ALA:HB1	2.17	0.45
24:W2:436:HIS:NE2	24:W2:438:GLU:HB2	2.31	0.45
25:X1:793:LEU:O	25:X1:797:LEU:HG	2.16	0.45
26:Y2:1367:LYS:O	26:Y2:1370:THR:OG1	2.30	0.45
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CA	2.93	0.45
27:Z1:46:TYR:OH	27:Z1:431:TRP:CZ2	2.61	0.45
27:Z1:153:MET:HE2	27:Z1:211:PHE:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:297:TYR:HD1	27:Z1:320:ASP:HB2	1.79	0.45
27:Z1:578:ARG:HA	27:Z1:581:PHE:HD2	1.81	0.45
1:A2:1226:LEU:O	1:A1:643:ALA:CB	2.60	0.45
1:A3:861:GLN:HB2	1:A3:882:SER:HB3	1.99	0.45
1:A3:1201:ARG:CA	1:A4:647:GLU:OE2	2.65	0.45
4:D1:784:ARG:HG2	4:D1:787:ARG:HD3	1.99	0.45
4:D1:1006:ASP:CG	1:A1:172:PRO:HA	2.37	0.45
4:D2:730:TYR:N	4:D2:731:PRO:CD	2.80	0.45
6:F1:1203:TRP:CZ3	15:O2:237:PRO:O	2.70	0.45
6:F1:1266:MET:O	15:O2:254:ARG:HD2	2.17	0.45
6:F2:535:ILE:CG1	6:F2:536:PRO:HD2	2.46	0.45
9:I1:915:ALA:HB1	14:N1:318:ASP:OD2	2.16	0.45
9:I1:978:LYS:CB	15:O1:176:ARG:NH1	2.79	0.45
9:I1:980:ILE:H	15:O1:175:SER:C	2.21	0.45
9:I2:899:LEU:HD13	13:M3:581:LEU:O	2.16	0.45
17:Q1:384:ASN:CB	17:Q1:509:ALA:CB	2.95	0.45
17:Q1:704:SER:N	17:Q1:707:PRO:HG2	2.28	0.45
17:Q1:792:LEU:HD12	17:Q1:792:LEU:N	2.32	0.45
17:Q1:999:LEU:CD1	17:Q1:1003:VAL:CG1	2.95	0.45
17:Q1:1155:VAL:HG23	17:Q1:1155:VAL:O	2.16	0.45
17:Q2:283:VAL:CG2	17:Q2:297:LEU:CD1	2.95	0.45
17:Q2:298:SER:HB2	17:Q2:304:PRO:HD3	1.99	0.45
17:Q2:584:LYS:CG	17:Q2:709:PHE:HZ	2.30	0.45
17:Q2:696:LEU:CD1	17:Q2:700:GLU:CG	2.94	0.45
17:Q2:704:SER:H	17:Q2:707:PRO:CG	2.25	0.45
17:Q2:725:PHE:CD2	17:Q2:744:LYS:HG3	2.50	0.45
17:Q2:811:LEU:CD1	17:Q2:814:LEU:CD2	2.94	0.45
17:Q2:814:LEU:HD12	17:Q2:815:VAL:HG13	1.98	0.45
17:Q2:999:LEU:HD13	17:Q2:1003:VAL:CG1	2.43	0.45
18:R1:532:ALA:CB	18:R1:535:ARG:HH21	2.30	0.45
19:R2:81:LEU:HD13	19:R2:85:ARG:NH2	2.32	0.45
19:R2:116:LEU:O	19:R2:119:ILE:HB	2.17	0.45
19:R2:264:TYR:O	19:R2:268:SER:OG	2.34	0.45
19:R2:531:ILE:HD12	19:R2:583:GLU:CD	2.37	0.45
19:R2:538:LEU:HD13	19:R2:546:LEU:HD12	1.97	0.45
20:S1:173:ILE:HD11	21:T1:43:HIS:HD2	1.82	0.45
20:S1:393:GLY:O	20:S1:394:GLN:HB2	2.17	0.45
20:S2:526:HIS:C	20:S2:530:ARG:HD2	2.36	0.45
22:U1:208:LEU:HD11	22:U1:231:ILE:CD1	2.47	0.45
24:W1:247:ASP:O	24:W1:251:PHE:N	2.47	0.45
24:W1:352:ILE:HD13	24:W1:471:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:523:ASP:OD2	24:W1:737:ILE:N	2.45	0.45
25:X2:644:TRP:CD1	25:X2:648:LEU:CD1	2.88	0.45
25:X2:664:SER:HA	25:X2:667:GLN:HG2	1.99	0.45
26:Y1:1294:LYS:HE2	27:Z1:588:TRP:CD1	2.32	0.45
26:Y1:1386:ALA:CA	26:Y2:1357:ASN:CA	2.92	0.45
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CG	2.98	0.45
26:Y2:1337:HIS:CG	27:Z1:111:ILE:HD12	2.52	0.45
27:Z1:15:ALA:HB1	27:Z1:16:SER:H	1.79	0.45
27:Z1:26:ILE:CA	27:Z1:440:MET:CE	2.36	0.45
27:Z1:263:TRP:CD1	27:Z1:270:VAL:HG23	2.51	0.45
27:Z2:137:TYR:CD2	27:Z2:137:TYR:N	2.65	0.45
27:Z2:285:PHE:CE1	27:Z2:333:MET:CE	3.00	0.45
27:Z2:422:ARG:CD	27:Z2:442:ASN:OD1	2.65	0.45
27:Z2:426:LEU:HD21	27:Z2:439:LEU:CD2	2.45	0.45
27:Z2:592:LEU:HA	27:Z2:595:GLN:CG	2.47	0.45
1:A2:861:GLN:HB2	1:A2:882:SER:HB3	1.99	0.45
1:A3:1204:TRP:CD1	1:A4:595:GLU:OE1	2.70	0.45
4:D1:468:LYS:HE3	1:A1:998:SER:O	2.17	0.45
4:D3:615:TYR:CD2	4:D3:641:CYS:HB3	2.51	0.45
4:D3:930:VAL:HG21	4:D3:940:ALA:HB3	1.99	0.45
6:F1:1267:ARG:CB	15:O2:254:ARG:CD	2.64	0.45
6:F1:1528:ALA:O	1:A1:1099:GLN:HG3	2.13	0.45
6:F1:1797:ARG:HD2	14:N2:429:GLU:OE1	2.17	0.45
9:I1:1606:GLU:CD	9:I2:1669:ARG:HD3	2.32	0.45
9:I2:1049:LEU:C	16:P3:142:LEU:N	2.58	0.45
9:I2:1108:PRO:HB3	15:O3:279:ILE:C	2.25	0.45
15:O1:90:HIS:N	15:O1:91:PRO:CD	2.80	0.45
15:O4:90:HIS:N	15:O4:91:PRO:CD	2.79	0.45
17:Q1:133:ALA:HB1	17:Q1:168:LYS:HZ1	1.81	0.45
17:Q1:275:ILE:HD11	17:Q1:281:ARG:NH2	2.32	0.45
17:Q1:380:THR:HG23	17:Q1:512:ILE:HG21	1.97	0.45
17:Q1:454:ASP:HB3	17:Q1:470:LYS:HZ2	1.82	0.45
17:Q1:475:LEU:HD12	17:Q1:475:LEU:N	2.31	0.45
17:Q1:584:LYS:CB	17:Q1:586:ASP:HB2	2.42	0.45
17:Q1:606:GLN:HG3	17:Q1:608:ASP:N	2.32	0.45
17:Q2:196:LEU:HD13	17:Q2:197:GLU:N	2.32	0.45
17:Q2:359:THR:HG1	17:Q2:387:MET:HB2	1.82	0.45
17:Q2:542:ASN:OD1	17:Q2:563:PHE:HD2	2.00	0.45
17:Q2:704:SER:N	17:Q2:707:PRO:HG2	2.28	0.45
17:Q2:982:GLU:CB	17:Q2:1104:ILE:HD11	2.37	0.45
18:R1:406:GLU:N	18:R1:447:PHE:CD1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:707:SER:O	19:R2:711:LEU:HB2	2.17	0.45
19:R2:715:LEU:HD23	19:R2:715:LEU:C	2.36	0.45
20:S2:304:VAL:HG13	20:S2:323:ILE:HG22	1.98	0.45
20:S2:393:GLY:O	20:S2:394:GLN:HB2	2.17	0.45
20:S2:513:MET:HG2	20:S2:541:ALA:HB2	1.99	0.45
21:T1:16:VAL:HG23	21:T1:59:VAL:HG23	1.98	0.45
21:T2:257:LEU:HA	21:T2:273:GLY:HA2	1.98	0.45
22:U1:212:LYS:HE3	25:X1:768:GLU:HG2	1.94	0.45
23:V1:97:ARG:NH1	23:V1:97:ARG:HB3	2.31	0.45
23:V2:97:ARG:NH1	23:V2:97:ARG:HB3	2.32	0.45
24:W1:436:HIS:NE2	24:W1:438:GLU:HB2	2.31	0.45
24:W1:490:VAL:HG22	24:W1:590:GLN:HG3	1.98	0.45
25:X1:789:GLU:HG3	27:Z1:680:TRP:CE2	2.35	0.45
26:Y2:1277:LYS:HG3	27:Z2:571:ILE:CG1	2.40	0.45
27:Z1:38:ILE:HG12	27:Z1:43:ILE:CD1	2.46	0.45
27:Z1:41:ASN:HA	27:Z1:59:PHE:CE1	2.52	0.45
27:Z1:69:PHE:N	27:Z1:84:ASN:OD1	2.50	0.45
27:Z1:422:ARG:CD	27:Z1:442:ASN:OD1	2.65	0.45
27:Z2:57:LEU:HD23	27:Z2:91:MET:CE	2.47	0.45
27:Z2:85:ASP:O	27:Z2:127:ILE:HG12	2.16	0.45
27:Z2:103:VAL:HG13	27:Z2:104:SER:N	2.29	0.45
1:A1:939:LYS:N	1:A1:940:PRO:HD3	2.32	0.45
1:A2:1224:PRO:HB2	1:A1:648:TYR:HH	1.81	0.45
4:D2:1077:MET:SD	4:D2:1077:MET:N	2.89	0.45
4:D3:784:ARG:HG2	4:D3:787:ARG:HD3	1.99	0.45
4:D4:930:VAL:HG21	4:D4:940:ALA:HB3	1.99	0.45
6:F2:173:THR:O	6:F2:177:ARG:NH1	2.50	0.45
6:F2:1643:CYS:SG	6:F2:1644:ASP:N	2.90	0.45
9:I1:1116:ASP:OD2	10:J1:241:THR:HG21	2.17	0.45
9:I1:1314:LEU:O	9:I1:1314:LEU:HD23	2.17	0.45
9:I2:915:ALA:CB	15:O3:193:ALA:O	2.65	0.45
9:I2:1108:PRO:HB2	15:O3:281:ALA:HB3	1.83	0.45
17:Q1:69:VAL:CG1	17:Q1:477:PHE:CD1	2.96	0.45
17:Q1:171:LYS:HD2	17:Q1:171:LYS:C	2.37	0.45
17:Q1:196:LEU:HD11	17:Q1:198:LEU:HD23	1.95	0.45
17:Q1:283:VAL:CG2	17:Q1:297:LEU:CD1	2.95	0.45
17:Q1:539:PHE:CZ	17:Q1:567:PHE:CE2	3.05	0.45
17:Q1:642:PHE:HB3	17:Q1:643:PRO:CD	2.42	0.45
17:Q1:811:LEU:HD21	17:Q1:814:LEU:HD23	1.99	0.45
17:Q1:1097:GLU:HG3	17:Q1:1098:THR:HG23	1.99	0.45
17:Q2:527:ILE:CG1	17:Q2:530:ASP:CB	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:606:GLN:HG3	17:Q2:608:ASP:N	2.32	0.45
17:Q2:703:THR:CG2	17:Q2:709:PHE:CD1	2.91	0.45
17:Q2:745:ILE:CD1	17:Q2:800:GLN:CG	2.94	0.45
17:Q2:896:TYR:HB2	17:Q2:934:VAL:HG23	1.99	0.45
17:Q2:922:LEU:HD23	19:R2:688:LEU:HD22	1.98	0.45
17:Q2:950:ASN:O	17:Q2:954:ILE:HG13	2.17	0.45
17:Q2:1097:GLU:HG3	17:Q2:1098:THR:HG23	1.99	0.45
18:R1:530:ILE:HD11	18:R1:549:PHE:O	2.16	0.45
18:R1:651:ILE:O	18:R1:655:ILE:HG12	2.17	0.45
22:U2:31:GLN:OE1	22:U2:52:ARG:NH1	2.50	0.45
23:V2:97:ARG:NH2	23:V2:411:SER:O	2.50	0.45
25:X1:690:GLN:NE2	27:Z1:581:PHE:HZ	1.98	0.45
25:X2:753:GLU:CA	25:X2:756:ASN:ND2	2.78	0.45
26:Y2:1271:ASN:O	26:Y2:1275:ASN:OD1	2.35	0.45
26:Y2:1361:GLU:O	26:Y2:1365:ILE:HG12	2.17	0.45
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:CA	2.40	0.45
26:Y2:1410:GLN:CA	27:Z2:711:LYS:HE2	2.45	0.45
27:Z1:128:LYS:CD	27:Z1:147:GLU:HA	2.45	0.45
27:Z1:147:GLU:C	27:Z1:149:ASP:H	2.19	0.45
27:Z1:381:ILE:HD11	27:Z1:424:PRO:CD	2.47	0.45
27:Z1:420:ILE:CD1	27:Z1:424:PRO:CD	2.95	0.45
27:Z1:422:ARG:HH21	27:Z1:442:ASN:ND2	2.13	0.45
27:Z1:538:ARG:NH2	27:Z2:543:GLN:C	2.57	0.45
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HD22	2.51	0.45
27:Z2:69:PHE:N	27:Z2:84:ASN:OD1	2.51	0.45
27:Z2:384:VAL:HG22	27:Z2:414:LEU:HD22	1.99	0.45
1:A1:861:GLN:HB2	1:A1:882:SER:HB3	1.99	0.45
1:A2:1271:ILE:CG2	1:A1:730:THR:O	2.65	0.44
1:A4:127:HIS:O	4:D3:1010:ALA:HB2	2.17	0.44
1:A4:199:PHE:HA	2:B4:353:LEU:HA	1.99	0.44
6:F1:1113:LYS:N	6:F1:1114:PRO:HD2	2.32	0.44
7:G2:254:ASN:CB	15:O4:253:LEU:N	2.53	0.44
9:I1:908:ARG:NE	13:M1:551:LEU:HG	2.33	0.44
9:I2:660:THR:OG1	9:I2:661:HIS:N	2.51	0.44
9:I2:915:ALA:HB3	15:O3:193:ALA:HA	1.38	0.44
9:I2:1305:LEU:CB	15:O3:263:GLN:CG	2.90	0.44
14:N1:433:GLU:OE2	16:P1:174:ARG:NH2	2.51	0.44
17:Q1:91:ASP:HB2	17:Q1:459:GLY:HA3	1.99	0.44
17:Q1:98:LEU:CB	17:Q1:107:ILE:HG22	2.47	0.44
17:Q1:332:LYS:CE	17:Q1:352:TYR:HE2	2.23	0.44
17:Q1:506:LYS:HZ2	17:Q1:563:PHE:HZ	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:801:CYS:HB2	17:Q1:818:LEU:CD1	2.47	0.44
17:Q1:814:LEU:HD12	17:Q1:815:VAL:HG12	1.98	0.44
17:Q2:98:LEU:CB	17:Q2:107:ILE:HG22	2.47	0.44
17:Q2:283:VAL:CG2	17:Q2:297:LEU:HD11	2.43	0.44
17:Q2:540:HIS:O	17:Q2:544:LYS:HG3	2.18	0.44
17:Q2:542:ASN:CG	17:Q2:563:PHE:HD2	2.20	0.44
17:Q2:553:LEU:HD13	17:Q2:629:LEU:HD13	1.98	0.44
17:Q2:709:PHE:HD1	17:Q2:709:PHE:H	1.63	0.44
17:Q2:815:VAL:CG2	17:Q2:816:GLN:N	2.80	0.44
17:Q2:856:LYS:CB	17:Q2:859:ASP:HB2	2.37	0.44
17:Q2:1042:TRP:CZ2	17:Q2:1079:PRO:HD3	2.52	0.44
20:S1:394:GLN:HG2	20:S1:397:GLU:HB2	1.99	0.44
23:V2:406:LEU:HB2	23:V2:407:PRO:HD3	1.98	0.44
23:V2:511:TYR:HA	23:V2:512:PRO:HD3	1.73	0.44
24:W1:177:PHE:CD1	24:W1:183:LEU:HD22	2.51	0.44
24:W1:523:ASP:CB	24:W1:738:ARG:CB	2.95	0.44
24:W1:531:LYS:N	24:W1:743:ASN:O	2.50	0.44
24:W2:130:THR:O	24:W2:150:PHE:HA	2.17	0.44
24:W2:247:ASP:HB2	24:W2:254:ILE:HG13	1.98	0.44
25:X2:695:GLN:H	27:Z2:431:TRP:CB	2.30	0.44
27:Z1:7:LEU:C	27:Z1:9:ALA:H	2.20	0.44
27:Z1:57:LEU:HD23	27:Z1:91:MET:CE	2.47	0.44
27:Z1:133:HIS:NE2	27:Z1:213:PRO:HD3	2.31	0.44
27:Z1:387:MET:CE	27:Z1:391:SER:CA	2.84	0.44
27:Z1:592:LEU:HD22	27:Z1:595:GLN:OE1	2.16	0.44
27:Z1:628:MET:HG3	27:Z1:632:LYS:HD2	1.99	0.44
27:Z1:699:GLU:O	27:Z1:703:GLN:HG3	2.16	0.44
27:Z2:63:LEU:HG	27:Z2:65:LEU:CD2	2.46	0.44
27:Z2:287:ILE:CD1	27:Z2:348:LEU:HD13	2.41	0.44
27:Z2:307:ILE:HD13	27:Z2:371:GLY:HA2	1.96	0.44
1:A2:1196:GLU:HB3	1:A1:590:SER:HB2	1.98	0.44
1:A4:1017:THR:HG21	1:A4:1048:ARG:NH1	2.33	0.44
4:D1:969:HIS:NE2	1:A1:715:GLU:OE2	2.50	0.44
6:F1:138:ILE:HD13	9:I1:1388:GLU:CA	2.43	0.44
6:F1:173:THR:O	6:F1:177:ARG:NH1	2.50	0.44
6:F2:143:GLY:CA	9:I2:1395:LEU:CD2	2.47	0.44
6:F2:1801:VAL:O	6:F2:1801:VAL:HG23	2.17	0.44
9:I1:978:LYS:HG3	15:O1:176:ARG:HB3	2.00	0.44
9:I1:1034:ASP:OD1	16:P1:148:ALA:HB2	2.18	0.44
9:I2:1254:VAL:CB	14:N3:408:MET:O	2.65	0.44
17:Q1:196:LEU:HD13	17:Q1:197:GLU:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:294:THR:HG23	17:Q1:294:THR:O	2.16	0.44
17:Q1:395:PHE:HB3	17:Q1:421:PRO:HG3	1.99	0.44
17:Q1:432:LYS:HD3	17:Q1:439:MET:HE2	1.99	0.44
17:Q1:584:LYS:CG	17:Q1:709:PHE:HZ	2.30	0.44
17:Q1:647:LYS:HA	17:Q1:647:LYS:HZ1	1.81	0.44
17:Q1:678:TYR:OH	17:Q1:682:LEU:HD11	2.17	0.44
17:Q1:703:THR:CG2	17:Q1:709:PHE:CD1	2.91	0.44
17:Q1:811:LEU:CD2	17:Q1:814:LEU:HD23	2.48	0.44
17:Q1:929:LEU:HB3	18:R1:714:TYR:CZ	2.47	0.44
17:Q2:91:ASP:HB2	17:Q2:459:GLY:HA3	2.00	0.44
17:Q2:688:THR:CG2	17:Q2:692:GLU:CB	2.95	0.44
17:Q2:693:LEU:CD1	17:Q2:761:ASN:HD21	2.31	0.44
17:Q2:1115:GLU:O	17:Q2:1119:GLN:HG3	2.17	0.44
18:R1:436:LEU:O	18:R1:461:GLN:OE1	2.34	0.44
18:R1:445:CYS:CB	18:R1:468:LEU:CD2	2.95	0.44
19:R2:631:ILE:HD13	19:R2:632:LYS:CG	2.35	0.44
21:T2:95:HIS:NE2	21:T2:138:PRO:HB3	2.31	0.44
23:V1:198:GLU:HG2	23:V1:300:SER:CB	2.47	0.44
23:V2:285:VAL:O	23:V2:289:ILE:HG13	2.18	0.44
25:X1:704:GLN:O	25:X1:708:GLU:HG3	2.17	0.44
25:X1:755:LEU:CD2	25:X1:758:LEU:HD12	2.45	0.44
25:X2:679:LEU:HB3	26:Y2:1281:MET:SD	2.57	0.44
25:X2:695:GLN:CG	27:Z2:431:TRP:CG	2.73	0.44
26:Y2:1333:ASP:CB	27:Z1:92:GLU:HB2	2.45	0.44
27:Z1:151:ILE:HD12	27:Z1:167:ASN:ND2	2.30	0.44
27:Z1:287:ILE:HD13	27:Z1:287:ILE:HA	1.92	0.44
27:Z2:120:GLU:H	27:Z2:124:LYS:CE	2.24	0.44
27:Z2:628:MET:HG3	27:Z2:632:LYS:CE	2.47	0.44
1:A3:1333:ARG:CD	4:D3:880:ASP:CA	2.87	0.44
4:D4:730:TYR:N	4:D4:731:PRO:CD	2.80	0.44
6:F1:840:ARG:HG3	6:F1:841:PRO:HD2	1.99	0.44
6:F2:535:ILE:HG13	6:F2:536:PRO:HD2	1.99	0.44
6:F2:1113:LYS:N	6:F2:1114:PRO:HD2	2.32	0.44
9:I1:892:HIS:NE2	13:M1:590:LYS:CB	2.61	0.44
9:I1:911:PRO:C	13:M1:541:LEU:HD21	2.34	0.44
9:I1:976:ARG:HD2	15:O1:174:LEU:N	2.32	0.44
9:I2:891:LEU:H	13:M3:591:ASP:N	2.09	0.44
9:I2:1103:LEU:CD2	13:M3:614:ASP:CG	2.68	0.44
9:I2:1254:VAL:CB	14:N3:411:GLN:N	2.71	0.44
9:I2:1314:LEU:O	9:I2:1314:LEU:HD23	2.17	0.44
15:O3:156:ILE:CG2	15:O3:157:THR:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:103:LYS:HE3	17:Q1:103:LYS:CA	2.38	0.44
17:Q1:688:THR:CG2	17:Q1:692:GLU:CB	2.95	0.44
17:Q1:725:PHE:CZ	17:Q1:741:GLY:HA2	2.51	0.44
17:Q1:815:VAL:CG2	17:Q1:816:GLN:N	2.80	0.44
17:Q2:365:THR:HG21	17:Q2:433:LEU:CD2	2.48	0.44
17:Q2:416:ILE:O	17:Q2:416:ILE:HG13	2.17	0.44
17:Q2:506:LYS:HZ3	17:Q2:538:ILE:HD11	1.83	0.44
17:Q2:625:GLN:CG	17:Q2:626:ASN:H	2.29	0.44
17:Q2:922:LEU:HD13	19:R2:689:ALA:CA	2.47	0.44
19:R2:711:LEU:CA	19:R2:714:TYR:CD2	2.94	0.44
23:V1:153:ASN:HA	23:V1:156:GLU:OE1	2.16	0.44
24:W1:285:ASN:OD1	24:W1:285:ASN:N	2.48	0.44
24:W1:291:LEU:HA	24:W1:292:PRO:HD3	1.76	0.44
24:W1:658:HIS:HA	24:W1:661:GLN:OE1	2.18	0.44
25:X1:649:THR:CG2	26:Y2:1231:ASN:HD21	2.19	0.44
25:X1:704:GLN:OE1	27:Z1:598:LEU:HD12	2.14	0.44
25:X1:807:LEU:O	27:Z1:701:LEU:CD1	2.66	0.44
25:X2:815:GLU:OE2	26:Y2:1398:GLU:O	2.35	0.44
26:Y2:1338:GLN:H	27:Z1:108:ALA:HB1	1.82	0.44
27:Z1:101:GLU:O	27:Z1:102:ASP:C	2.54	0.44
27:Z1:178:ARG:HD3	27:Z1:178:ARG:HA	1.86	0.44
27:Z1:389:TRP:CE2	27:Z1:410:PHE:HE1	1.99	0.44
27:Z1:395:LYS:HB3	27:Z2:264:ASN:HA	1.51	0.44
1:A3:1331:GLU:HG3	4:D3:873:GLN:CA	2.42	0.44
2:B1:353:LEU:HA	1:A1:199:PHE:HA	1.99	0.44
4:D1:461:PRO:HG2	4:D1:747:TYR:CE1	2.53	0.44
4:D1:1077:MET:SD	4:D1:1077:MET:N	2.89	0.44
6:F1:1801:VAL:O	6:F1:1801:VAL:HG23	2.17	0.44
6:F2:511:ALA:O	6:F2:1008:TYR:N	2.43	0.44
9:I2:917:TYR:OH	15:O3:187:ASN:OD1	2.36	0.44
9:I2:926:SER:HB3	15:O3:183:VAL:HG13	1.64	0.44
9:I2:968:PRO:O	14:N3:299:ASN:OD1	2.35	0.44
17:Q1:416:ILE:O	17:Q1:416:ILE:HG13	2.17	0.44
17:Q1:814:LEU:CD1	17:Q1:815:VAL:CG1	2.95	0.44
17:Q2:61:PHE:HE1	17:Q2:71:THR:OG1	1.98	0.44
17:Q2:103:LYS:HE3	17:Q2:103:LYS:CA	2.38	0.44
17:Q2:395:PHE:HB3	17:Q2:421:PRO:HG3	2.00	0.44
17:Q2:467:VAL:CG1	17:Q2:475:LEU:HD13	2.48	0.44
17:Q2:610:LEU:CD2	17:Q2:613:ILE:CD1	2.95	0.44
17:Q2:678:TYR:CE2	17:Q2:682:LEU:HD11	2.52	0.44
17:Q2:754:ASN:CA	17:Q2:757:LYS:HE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:836:PHE:HE2	17:Q2:842:GLU:OE2	2.01	0.44
17:Q2:857:LEU:HD12	17:Q2:915:GLU:O	2.13	0.44
18:R1:81:LEU:HD13	18:R1:85:ARG:NH2	2.32	0.44
18:R1:530:ILE:HG13	18:R1:549:PHE:HD2	1.72	0.44
18:R1:531:ILE:HD12	18:R1:583:GLU:CD	2.37	0.44
18:R1:617:ILE:HG13	18:R1:670:LYS:HG2	1.95	0.44
19:R2:651:ILE:O	19:R2:655:ILE:HG12	2.18	0.44
22:U1:31:GLN:OE1	22:U1:52:ARG:NH1	2.50	0.44
22:U1:124:LYS:HG3	22:U1:138:ASP:OD1	2.17	0.44
22:U1:290:SER:O	25:X1:801:PHE:CB	2.53	0.44
22:U2:124:LYS:HG3	22:U2:138:ASP:OD1	2.17	0.44
24:W2:643:ASP:OD2	24:W2:646:ILE:HG13	2.17	0.44
25:X1:665:TRP:CZ3	25:X1:669:LEU:HD12	2.49	0.44
25:X1:742:GLN:CD	25:X1:743:GLN:N	2.69	0.44
25:X2:807:LEU:O	27:Z2:701:LEU:CD1	2.66	0.44
26:Y1:1382:VAL:C	26:Y2:1364:ASN:HB2	1.96	0.44
26:Y1:1382:VAL:O	26:Y1:1383:ALA:HB3	2.17	0.44
27:Z1:26:ILE:HB	27:Z1:440:MET:HE1	1.64	0.44
27:Z1:52:SER:O	27:Z1:53:LEU:CG	2.66	0.44
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:CA	2.30	0.44
27:Z1:285:PHE:CE1	27:Z1:333:MET:CE	3.00	0.44
27:Z1:391:SER:HB2	27:Z2:267:PHE:CZ	2.47	0.44
27:Z1:522:GLU:HG2	27:Z1:526:GLU:HG3	1.98	0.44
27:Z1:592:LEU:HA	27:Z1:595:GLN:CG	2.47	0.44
27:Z2:41:ASN:HA	27:Z2:59:PHE:CE1	2.52	0.44
27:Z2:94:PRO:HA	27:Z2:109:PHE:CE1	2.52	0.44
27:Z2:178:ARG:HD3	27:Z2:178:ARG:HA	1.86	0.44
1:A2:1200:ARG:CA	1:A1:595:GLU:HB2	2.44	0.44
1:A2:1222:ALA:HA	1:A1:599:ARG:C	2.23	0.44
4:D4:461:PRO:HG2	4:D4:747:TYR:CE1	2.53	0.44
6:F1:136:ALA:O	9:I1:1389:GLN:O	2.35	0.44
6:F1:139:GLN:CB	9:I1:1396:ILE:HG13	2.33	0.44
6:F2:840:ARG:HG3	6:F2:841:PRO:HD2	1.98	0.44
9:I1:967:SER:CB	15:O1:178:ASP:CB	2.84	0.44
9:I2:1035:GLN:OE1	16:P3:145:SER:N	2.50	0.44
9:I2:1116:ASP:OD2	10:J2:241:THR:HG21	2.17	0.44
15:O2:99:LEU:O	15:O2:137:VAL:N	2.51	0.44
15:O4:99:LEU:O	15:O4:137:VAL:N	2.51	0.44
17:Q1:246:LYS:HD2	17:Q1:248:LEU:HD23	2.00	0.44
17:Q1:610:LEU:CD2	17:Q1:613:ILE:CD1	2.95	0.44
17:Q1:1043:ARG:NH2	17:Q1:1117:ILE:HD11	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1057:LEU:CD1	17:Q1:1061:ILE:CD1	2.96	0.44
17:Q1:1122:THR:HG23	17:Q1:1123:LEU:N	2.31	0.44
17:Q2:246:LYS:HD2	17:Q2:248:LEU:HD23	1.99	0.44
17:Q2:313:TYR:HA	17:Q2:316:ILE:HG12	1.97	0.44
17:Q2:362:ILE:HD12	17:Q2:362:ILE:O	2.17	0.44
17:Q2:461:ASP:CG	17:Q2:462:SER:H	2.19	0.44
17:Q2:658:PHE:HB2	17:Q2:659:PRO:HD3	1.98	0.44
17:Q2:838:GLU:HG3	17:Q2:839:PHE:N	2.33	0.44
17:Q2:929:LEU:CD1	19:R2:691:THR:O	2.65	0.44
17:Q2:1121:GLU:O	17:Q2:1124:ASN:HB3	2.18	0.44
18:R1:116:LEU:O	18:R1:119:ILE:HB	2.17	0.44
18:R1:442:LEU:CD1	18:R1:470:LEU:CD2	2.95	0.44
19:R2:385:LEU:O	19:R2:389:VAL:HG23	2.18	0.44
20:S2:173:ILE:HD11	21:T2:43:HIS:HD2	1.82	0.44
22:U1:131:ASP:OD2	22:U1:135:ARG:NH2	2.51	0.44
23:V2:198:GLU:HG2	23:V2:300:SER:CB	2.47	0.44
25:X1:679:LEU:HB3	26:Y1:1281:MET:SD	2.58	0.44
25:X1:815:GLU:OE2	26:Y1:1398:GLU:O	2.35	0.44
25:X2:680:TYR:CE1	27:Z2:439:LEU:CD1	2.99	0.44
25:X2:814:LEU:HD11	27:Z2:705:SER:HG	1.70	0.44
25:X2:819:ASN:HA	25:X2:822:LYS:HD2	1.99	0.44
26:Y2:1367:LYS:CA	26:Y2:1383:ALA:HB3	2.46	0.44
27:Z1:12:ILE:HB	27:Z1:54:TYR:CD2	2.53	0.44
27:Z1:142:ILE:HD11	27:Z1:156:ILE:HD11	1.99	0.44
27:Z1:318:SER:OG	27:Z1:318:SER:O	2.36	0.44
27:Z1:327:LEU:HD13	27:Z1:348:LEU:HD13	1.98	0.44
27:Z2:198:ASN:N	27:Z2:198:ASN:C	2.55	0.44
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CD2	2.50	0.44
27:Z2:291:PRO:HB2	27:Z2:294:LEU:HG	1.99	0.44
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CD1	2.53	0.44
27:Z2:325:ILE:CG2	27:Z2:327:LEU:CD2	2.95	0.44
27:Z2:417:ILE:CG2	27:Z2:448:GLN:CD	2.86	0.44
1:A3:939:LYS:N	1:A3:940:PRO:HD3	2.32	0.44
1:A4:929:ASN:ND2	4:D3:468:LYS:NZ	2.61	0.44
4:D2:784:ARG:HG2	4:D2:787:ARG:HD3	1.99	0.44
6:F1:133:GLN:HB2	9:I1:1389:GLN:HE21	1.83	0.44
6:F1:1837:LYS:O	6:F1:1841:LEU:HD13	2.18	0.44
9:I1:961:ARG:HD3	15:O1:186:PHE:HA	1.44	0.44
9:I2:1050:SER:CB	16:P3:142:LEU:H	2.30	0.44
9:I2:1333:THR:N	9:I2:1334:PRO:CD	2.80	0.44
14:N4:433:GLU:OE2	16:P4:174:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O2:98:TYR:HD2	15:O2:125:ALA:HB2	1.83	0.44
17:Q1:134:VAL:HG12	17:Q1:135:ALA:H	1.83	0.44
17:Q1:681:ILE:HG23	17:Q1:682:LEU:N	2.32	0.44
17:Q1:922:LEU:HD11	18:R1:688:LEU:O	2.17	0.44
17:Q2:97:GLY:HA3	17:Q2:110:ILE:HD11	2.00	0.44
17:Q2:98:LEU:HD21	17:Q2:100:ASN:OD1	2.18	0.44
17:Q2:506:LYS:HD2	17:Q2:563:PHE:CZ	2.52	0.44
17:Q2:709:PHE:N	17:Q2:709:PHE:HD1	2.14	0.44
17:Q2:999:LEU:CD1	17:Q2:1003:VAL:CG1	2.95	0.44
17:Q2:1029:LEU:CD2	17:Q2:1037:LEU:HD12	2.48	0.44
18:R1:109:LEU:HD23	18:R1:298:ILE:HG13	2.00	0.44
18:R1:524:VAL:HG13	18:R1:577:GLU:OE1	2.17	0.44
19:R2:510:LEU:CB	19:R2:533:LEU:CD1	2.94	0.44
19:R2:524:VAL:HG13	19:R2:577:GLU:OE1	2.18	0.44
19:R2:533:LEU:HD21	19:R2:537:PHE:HE2	1.82	0.44
21:T1:52:HIS:CE1	21:T1:80:LEU:HD12	2.53	0.44
25:X1:664:SER:HA	25:X1:667:GLN:HG2	1.99	0.44
25:X2:672:GLY:O	25:X2:676:ILE:HG12	2.17	0.44
25:X2:680:TYR:OH	27:Z2:420:ILE:CG2	2.50	0.44
26:Y2:1335:SER:O	26:Y2:1339:PHE:CG	2.69	0.44
27:Z1:189:LYS:HG2	27:Z1:304:THR:HG22	1.99	0.44
27:Z1:428:TYR:CE1	27:Z1:435:SER:HG	1.74	0.44
27:Z1:451:SER:HA	27:Z1:452:SER:N	2.31	0.44
27:Z1:648:GLN:O	27:Z1:652:GLN:HG2	2.17	0.44
27:Z2:300:THR:N	27:Z2:318:SER:O	2.31	0.44
27:Z2:381:ILE:HD11	27:Z2:424:PRO:CD	2.47	0.44
27:Z2:625:HIS:ND1	27:Z2:626:GLY:HA2	2.33	0.44
1:A1:1017:THR:HG21	1:A1:1048:ARG:NH1	2.33	0.44
1:A3:1333:ARG:CD	4:D3:880:ASP:HA	2.47	0.44
1:A4:939:LYS:N	1:A4:940:PRO:HD3	2.32	0.44
9:I1:842:ASN:ND2	13:M1:542:ASP:CG	2.68	0.44
9:I1:917:TYR:CD2	15:O1:191:ARG:HD3	2.52	0.44
9:I1:978:LYS:HD3	13:M1:524:GLU:HG2	2.00	0.44
9:I1:1361:ALA:O	9:I1:1365:ALA:N	2.50	0.44
9:I2:976:ARG:CD	15:O3:174:LEU:HD11	1.88	0.44
9:I2:1308:THR:CB	14:N3:414:ALA:HA	2.47	0.44
14:N2:433:GLU:OE2	16:P2:174:ARG:NH2	2.51	0.44
17:Q1:98:LEU:HD21	17:Q1:100:ASN:OD1	2.18	0.44
17:Q1:506:LYS:HD2	17:Q1:563:PHE:CZ	2.52	0.44
17:Q1:540:HIS:O	17:Q1:544:LYS:HG3	2.17	0.44
17:Q1:1042:TRP:CZ2	17:Q1:1079:PRO:HD3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1115:GLU:O	17:Q1:1119:GLN:HG3	2.17	0.44
17:Q2:275:ILE:HD11	17:Q2:281:ARG:NH2	2.32	0.44
17:Q2:681:ILE:HD13	17:Q2:681:ILE:C	2.38	0.44
17:Q2:811:LEU:HD21	17:Q2:814:LEU:HD23	1.99	0.44
17:Q2:891:ILE:CD1	19:R2:715:LEU:CD1	2.95	0.44
18:R1:106:GLU:O	18:R1:110:MET:HG2	2.18	0.44
22:U2:107:SER:HA	22:U2:135:ARG:HH21	1.83	0.44
23:V1:141:ASN:N	23:V1:141:ASN:HD22	2.16	0.44
23:V2:221:GLU:HA	23:V2:224:ILE:HG13	2.00	0.44
27:Z1:12:ILE:CD1	27:Z1:54:TYR:HB3	2.42	0.44
27:Z1:316:CYS:HB3	27:Z1:324:LEU:HD11	1.98	0.44
27:Z2:52:SER:O	27:Z2:53:LEU:CG	2.66	0.44
27:Z2:142:ILE:HD11	27:Z2:156:ILE:HD11	1.99	0.44
27:Z2:147:GLU:C	27:Z2:149:ASP:H	2.20	0.44
27:Z2:417:ILE:O	27:Z2:418:ALA:CB	2.64	0.44
27:Z2:628:MET:HG3	27:Z2:632:LYS:HD2	1.99	0.44
1:A3:1056:PHE:HB3	4:D3:1101:HIS:CE1	2.53	0.44
4:D3:437:GLY:N	4:D3:438:PRO:HD2	2.33	0.44
6:F2:1120:HIS:O	6:F2:1124:THR:HG23	2.18	0.44
9:I1:963:LEU:HB2	15:O1:178:ASP:O	2.17	0.44
9:I1:981:VAL:CG1	15:O1:176:ARG:CD	2.95	0.44
9:I2:902:GLN:HG2	13:M3:580:LYS:HB2	1.44	0.44
9:I2:906:GLY:HA2	13:M3:573:ARG:HG3	1.99	0.44
9:I2:1049:LEU:CG	16:P3:142:LEU:N	2.80	0.44
15:O2:156:ILE:CG2	15:O2:157:THR:N	2.81	0.44
17:Q1:181:ILE:C	17:Q1:183:ASN:H	2.20	0.44
17:Q1:210:LEU:HD13	17:Q1:211:MET:CA	2.48	0.44
17:Q1:331:LEU:CD1	17:Q1:351:ILE:CG2	2.94	0.44
17:Q1:542:ASN:CG	17:Q1:563:PHE:HD2	2.20	0.44
17:Q1:553:LEU:HD13	17:Q1:629:LEU:HD13	1.98	0.44
17:Q1:693:LEU:CD1	17:Q1:761:ASN:HD21	2.31	0.44
17:Q1:829:VAL:HG13	17:Q1:830:SER:N	2.32	0.44
17:Q1:999:LEU:HD13	17:Q1:1003:VAL:CG1	2.43	0.44
17:Q2:164:LEU:HD22	17:Q2:164:LEU:N	2.33	0.44
17:Q2:636:ILE:HG13	17:Q2:637:ASN:H	1.82	0.44
17:Q2:811:LEU:CD2	17:Q2:814:LEU:HD23	2.47	0.44
17:Q2:1007:SER:CB	17:Q2:1044:ARG:HD3	2.25	0.44
17:Q2:1076:PHE:HB3	17:Q2:1155:VAL:CG2	2.46	0.44
18:R1:222:VAL:O	20:S1:256:VAL:HG22	2.18	0.44
18:R1:533:LEU:HD21	18:R1:537:PHE:HE2	1.82	0.44
18:R1:617:ILE:HD11	18:R1:670:LYS:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:631:ILE:HD13	18:R1:632:LYS:CG	2.35	0.44
19:R2:106:GLU:O	19:R2:110:MET:HG2	2.18	0.44
19:R2:222:VAL:O	20:S2:256:VAL:HG22	2.18	0.44
19:R2:538:LEU:HB2	19:R2:546:LEU:CD1	2.40	0.44
19:R2:667:LEU:HD13	19:R2:671:LEU:HG	1.98	0.44
24:W1:668:TYR:CZ	24:W1:672:LYS:HE3	2.53	0.44
25:X1:672:GLY:O	25:X1:676:ILE:HG12	2.17	0.44
25:X2:789:GLU:H	27:Z2:680:TRP:HZ3	1.65	0.44
26:Y1:1318:LEU:O	26:Y1:1321:MET:HB2	2.18	0.44
26:Y2:1446:LYS:HB3	27:Z2:330:ASP:OD1	2.18	0.44
27:Z2:648:GLN:O	27:Z2:652:GLN:HG2	2.17	0.44
1:A2:199:PHE:HA	2:B2:353:LEU:HA	1.99	0.44
1:A2:1223:GLU:CD	1:A1:611:ILE:HD13	2.35	0.44
1:A3:1017:THR:HG21	1:A3:1048:ARG:NH1	2.33	0.44
1:A4:827:ILE:HD13	1:A4:849:SER:HG	1.76	0.44
4:D3:1037:GLN:N	4:D3:1038:PRO:HD2	2.33	0.44
6:F1:179:GLU:OE1	9:I1:1201:PHE:CE1	2.71	0.44
6:F1:1265:GLN:CG	15:O2:249:ARG:C	2.86	0.44
9:I1:660:THR:OG1	9:I1:661:HIS:N	2.51	0.44
9:I1:903:GLY:C	13:M1:575:TYR:N	2.71	0.44
9:I1:925:LEU:HG	15:O1:187:ASN:HB3	2.00	0.44
9:I2:889:THR:OG1	15:O3:247:TRP:CH2	2.62	0.44
9:I2:911:PRO:CA	15:O3:197:ARG:HE	2.28	0.44
9:I2:917:TYR:HE1	15:O3:187:ASN:C	2.18	0.44
9:I2:976:ARG:CZ	15:O3:174:LEU:HD13	2.47	0.44
9:I2:1034:ASP:HA	15:O3:284:LYS:CG	2.47	0.44
9:I2:1102:GLN:O	15:O3:276:GLY:CA	2.58	0.44
9:I2:1160:ILE:HD12	15:O3:263:GLN:C	2.15	0.44
9:I2:1172:TYR:CB	15:O3:273:ASP:OD2	2.55	0.44
9:I2:1305:LEU:HD21	15:O3:260:LEU:HG	2.00	0.44
10:J1:248:VAL:HG22	15:O1:273:ASP:CA	2.35	0.44
15:O3:99:LEU:O	15:O3:137:VAL:N	2.51	0.44
15:O4:156:ILE:CG2	15:O4:157:THR:N	2.81	0.44
17:Q1:264:ASN:CA	17:Q1:289:LYS:HB2	2.48	0.44
17:Q1:427:THR:CG2	17:Q1:428:GLN:N	2.81	0.44
17:Q1:570:PHE:CZ	17:Q1:574:ASN:ND2	2.86	0.44
17:Q1:678:TYR:CE2	17:Q1:682:LEU:HD11	2.52	0.44
17:Q1:808:TYR:CD2	17:Q1:811:LEU:HB2	2.53	0.44
17:Q1:896:TYR:HB2	17:Q1:934:VAL:HG23	1.99	0.44
17:Q1:1076:PHE:HB3	17:Q1:1155:VAL:CG2	2.45	0.44
17:Q1:1086:ASP:HB3	17:Q1:1089:LEU:HG	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1121:GLU:O	17:Q1:1124:ASN:HB3	2.18	0.44
17:Q2:345:GLN:CG	17:Q2:346:LEU:HD22	2.16	0.44
17:Q2:567:PHE:CE2	17:Q2:571:VAL:CG1	3.01	0.44
17:Q2:642:PHE:HB3	17:Q2:643:PRO:CD	2.42	0.44
18:R1:435:PHE:O	18:R1:448:ILE:CG1	2.65	0.44
18:R1:473:SER:HB2	18:R1:475:ILE:CG1	2.43	0.44
18:R1:612:ASN:HA	18:R1:615:THR:HG22	1.99	0.44
18:R1:711:LEU:CA	18:R1:714:TYR:CD2	2.94	0.44
19:R2:227:ILE:C	19:R2:229:ASN:H	2.22	0.44
19:R2:585:THR:HG22	19:R2:589:HIS:CD2	2.53	0.44
20:S2:394:GLN:HG2	20:S2:397:GLU:HB2	1.99	0.44
22:U1:243:PHE:CZ	27:Z1:660:SER:CB	3.00	0.44
23:V1:152:LEU:CD2	23:V1:182:LEU:HB3	2.43	0.44
24:W1:523:ASP:HB3	24:W1:738:ARG:CB	2.34	0.44
25:X1:645:THR:CG2	27:Z1:535:PHE:CE2	3.01	0.44
25:X2:645:THR:CG2	27:Z2:535:PHE:CE2	3.01	0.44
25:X2:648:LEU:HD21	27:Z2:535:PHE:CE1	2.52	0.44
25:X2:753:GLU:C	25:X2:756:ASN:ND2	2.69	0.44
25:X2:755:LEU:CD2	25:X2:758:LEU:HD12	2.45	0.44
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CG	2.98	0.44
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:HZ3	1.81	0.44
27:Z1:156:ILE:O	27:Z1:156:ILE:CG2	2.66	0.44
27:Z1:216:LEU:CG	27:Z1:272:ILE:HD12	1.96	0.44
27:Z1:374:TYR:CE1	27:Z1:383:GLN:HG2	2.53	0.44
27:Z1:384:VAL:HG22	27:Z1:414:LEU:HD22	1.99	0.44
27:Z2:12:ILE:HB	27:Z2:54:TYR:CD2	2.53	0.44
27:Z2:58:ASN:HD21	27:Z2:60:SER:HG	1.66	0.44
27:Z2:156:ILE:O	27:Z2:156:ILE:CG2	2.66	0.44
27:Z2:178:ARG:NH2	27:Z2:280:LYS:CD	2.71	0.44
27:Z2:208:PHE:CE2	27:Z2:279:ALA:C	2.92	0.44
27:Z2:356:LEU:CD1	27:Z2:358:ARG:NH2	2.61	0.44
27:Z2:362:SER:OG	27:Z2:376:ILE:CB	2.58	0.44
1:A2:1221:ILE:C	1:A1:599:ARG:CB	2.65	0.43
4:D1:930:VAL:HG21	4:D1:940:ALA:HB3	1.99	0.43
4:D1:1056:ARG:O	4:D1:1059:GLU:HB3	2.18	0.43
4:D3:461:PRO:HG2	4:D3:747:TYR:CE1	2.53	0.43
6:F1:143:GLY:O	9:I1:1397:GLY:CA	2.66	0.43
6:F2:160:SER:HA	9:I2:1197:ASN:O	2.18	0.43
9:I2:809:HIS:HE1	15:O3:240:GLY:HA2	0.90	0.43
9:I2:888:GLU:OE2	13:M3:597:LYS:HG3	2.16	0.43
9:I2:1108:PRO:CA	15:O3:281:ALA:CB	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:433:GLU:OE2	16:P3:174:ARG:NH2	2.51	0.43
15:O1:156:ILE:CG2	15:O1:157:THR:N	2.80	0.43
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CE1	2.86	0.43
17:Q1:381:TYR:CA	17:Q1:512:ILE:CG1	2.85	0.43
17:Q1:467:VAL:CG1	17:Q1:475:LEU:HD13	2.48	0.43
17:Q1:748:ILE:HG23	17:Q1:749:LEU:N	2.32	0.43
17:Q1:805:ALA:CB	17:Q1:815:VAL:CG1	2.93	0.43
17:Q1:836:PHE:HE2	17:Q1:842:GLU:OE2	2.00	0.43
17:Q1:950:ASN:O	17:Q1:954:ILE:HG13	2.17	0.43
17:Q2:366:ILE:CD1	17:Q2:377:ILE:CD1	2.95	0.43
17:Q2:381:TYR:OH	17:Q2:429:VAL:HG11	2.18	0.43
17:Q2:455:ILE:CG2	17:Q2:467:VAL:CG2	2.96	0.43
17:Q2:678:TYR:OH	17:Q2:682:LEU:HD11	2.17	0.43
17:Q2:814:LEU:CD1	17:Q2:815:VAL:CG1	2.95	0.43
17:Q2:829:VAL:HG13	17:Q2:830:SER:N	2.32	0.43
17:Q2:856:LYS:O	17:Q2:859:ASP:HB2	2.18	0.43
17:Q2:929:LEU:CB	19:R2:714:TYR:CZ	2.89	0.43
18:R1:535:ARG:NE	18:R1:651:ILE:HD11	2.32	0.43
19:R2:535:ARG:NE	19:R2:651:ILE:HD11	2.32	0.43
19:R2:612:ASN:HA	19:R2:615:THR:HG22	1.99	0.43
20:S2:168:LYS:HE2	21:T2:45:LEU:HB2	2.00	0.43
23:V2:215:SER:HB2	23:V2:390:TRP:CZ2	2.53	0.43
25:X1:753:GLU:C	25:X1:756:ASN:ND2	2.68	0.43
27:Z1:362:SER:OG	27:Z1:376:ILE:CB	2.59	0.43
27:Z2:303:ALA:HB3	27:Z2:363:LEU:HD21	1.90	0.43
1:A2:1196:GLU:OE2	1:A1:590:SER:HB3	2.13	0.43
1:A2:1228:TYR:HE1	1:A1:643:ALA:N	2.16	0.43
1:A3:1268:ASP:O	1:A4:730:THR:HG23	2.18	0.43
1:A3:1269:ALA:CB	1:A4:729:SER:OG	2.66	0.43
1:A3:1333:ARG:HD3	4:D3:880:ASP:HA	2.00	0.43
4:D2:1056:ARG:O	4:D2:1059:GLU:HB3	2.18	0.43
4:D3:730:TYR:N	4:D3:731:PRO:CD	2.80	0.43
6:F1:535:ILE:HG13	6:F1:536:PRO:HD2	1.99	0.43
6:F2:133:GLN:O	9:I2:1388:GLU:OE1	2.35	0.43
9:I1:976:ARG:HH12	15:O1:174:LEU:HB2	1.46	0.43
9:I1:1048:GLU:OE1	15:O1:168:ALA:HA	2.17	0.43
9:I2:893:LEU:HD13	15:O3:247:TRP:HE1	1.82	0.43
9:I2:899:LEU:O	13:M3:581:LEU:CA	2.66	0.43
9:I2:961:ARG:NH2	16:P3:162:GLU:O	2.51	0.43
9:I2:1049:LEU:N	14:N3:293:LYS:HA	2.32	0.43
15:O1:99:LEU:O	15:O1:137:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:455:ILE:CG2	17:Q1:467:VAL:CG2	2.96	0.43
17:Q1:610:LEU:CD1	17:Q1:614:TRP:CZ3	2.96	0.43
17:Q2:171:LYS:HD2	17:Q2:171:LYS:C	2.38	0.43
17:Q2:200:ILE:H	17:Q2:200:ILE:CD1	2.24	0.43
17:Q2:219:ILE:O	17:Q2:219:ILE:HG13	2.18	0.43
17:Q2:260:ILE:O	17:Q2:260:ILE:HG23	2.17	0.43
17:Q2:682:LEU:HD23	17:Q2:682:LEU:HA	1.85	0.43
17:Q2:852:ILE:HD11	17:Q2:913:LYS:CD	2.46	0.43
17:Q2:1057:LEU:CD1	17:Q2:1061:ILE:CD1	2.96	0.43
18:R1:385:LEU:O	18:R1:389:VAL:HG23	2.18	0.43
18:R1:664:LEU:CD1	18:R1:690:PHE:HE1	2.28	0.43
19:R2:532:ALA:CB	19:R2:535:ARG:HH21	2.30	0.43
19:R2:613:ILE:HG23	19:R2:614:PRO:CD	2.43	0.43
19:R2:615:THR:CG2	19:R2:616:LEU:N	2.81	0.43
20:S1:513:MET:HG2	20:S1:541:ALA:HB2	1.99	0.43
21:T2:35:ILE:HB	21:T2:47:ASP:HB2	2.00	0.43
22:U1:248:LYS:CG	25:X1:805:ARG:HB3	2.44	0.43
22:U1:288:LEU:CD2	25:X1:792:GLN:O	2.59	0.43
23:V1:239:VAL:HB	23:V1:240:PHE:H	1.59	0.43
24:W2:218:SER:OG	24:W2:219:ASP:N	2.50	0.43
24:W2:739:PHE:O	24:W2:743:ASN:N	2.36	0.43
25:X1:793:LEU:HD13	27:Z1:680:TRP:NE1	2.33	0.43
25:X1:799:SER:CB	26:Y1:1370:THR:O	2.66	0.43
25:X2:789:GLU:N	25:X2:789:GLU:CB	2.69	0.43
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:N	2.02	0.43
27:Z1:158:ASN:HB3	27:Z1:161:GLU:HG2	1.99	0.43
27:Z1:291:PRO:HB2	27:Z1:294:LEU:HG	1.99	0.43
27:Z1:356:LEU:HB3	27:Z1:358:ARG:CZ	2.48	0.43
27:Z1:628:MET:HG3	27:Z1:632:LYS:CE	2.47	0.43
27:Z2:420:ILE:HD13	27:Z2:424:PRO:CD	2.48	0.43
1:A2:1204:TRP:HE3	1:A1:648:TYR:HB3	1.83	0.43
1:A2:1399:ARG:CB	4:D1:872:LEU:HD13	2.38	0.43
1:A3:1204:TRP:CD1	1:A4:648:TYR:HE1	1.65	0.43
1:A4:521:ASN:HB2	4:D3:1019:ARG:HH21	0.36	0.43
6:F1:138:ILE:CB	9:I1:1391:THR:HB	2.48	0.43
9:I1:896:PRO:CB	13:M1:583:ASP:C	2.76	0.43
9:I1:1034:ASP:CG	16:P1:147:LEU:HD23	2.38	0.43
9:I1:1119:ARG:HH12	10:J1:240:GLY:HA3	1.84	0.43
9:I1:1182:GLN:NE2	10:J1:245:GLU:CB	2.79	0.43
9:I2:656:MET:O	9:I2:659:LYS:NZ	2.44	0.43
9:I2:843:GLU:CD	15:O3:191:ARG:NE	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:889:THR:N	13:M3:594:LYS:CD	2.56	0.43
9:I2:1032:THR:N	13:M3:618:GLN:N	2.66	0.43
9:I2:1122:ASN:O	9:I2:1126:HIS:ND1	2.42	0.43
14:N3:429:GLU:OE2	14:N3:429:GLU:N	2.52	0.43
17:Q1:73:GLN:CD	17:Q1:73:GLN:H	2.21	0.43
17:Q1:97:GLY:HA3	17:Q1:110:ILE:HD11	1.99	0.43
17:Q1:164:LEU:HD22	17:Q1:164:LEU:N	2.33	0.43
17:Q1:228:ILE:HG13	17:Q1:249:ASN:H	1.84	0.43
17:Q1:381:TYR:OH	17:Q1:429:VAL:HG11	2.18	0.43
17:Q1:400:PHE:HD1	17:Q1:460:TYR:CD1	2.37	0.43
17:Q1:506:LYS:CD	17:Q1:538:ILE:HD11	2.48	0.43
17:Q1:542:ASN:OD1	17:Q1:563:PHE:HD2	2.00	0.43
17:Q1:690:ARG:HB3	17:Q1:690:ARG:CZ	2.47	0.43
17:Q1:823:GLN:C	17:Q1:825:ASP:H	2.22	0.43
17:Q1:900:MET:CG	17:Q1:931:SER:HB3	2.48	0.43
17:Q1:925:ASN:CB	18:R1:692:SER:HB2	2.49	0.43
17:Q1:1081:VAL:HG22	17:Q1:1129:LEU:HD23	2.00	0.43
17:Q2:165:ILE:HD13	17:Q2:174:TYR:CD1	2.54	0.43
17:Q2:264:ASN:HB3	17:Q2:289:LYS:CD	2.44	0.43
17:Q2:506:LYS:CD	17:Q2:538:ILE:HD11	2.49	0.43
17:Q2:672:LEU:HD22	17:Q2:672:LEU:N	2.33	0.43
17:Q2:726:THR:OG1	17:Q2:792:LEU:HD23	2.19	0.43
17:Q2:786:LEU:HB3	17:Q2:811:LEU:CG	2.46	0.43
17:Q2:823:GLN:C	17:Q2:825:ASP:H	2.21	0.43
17:Q2:960:ILE:CG2	17:Q2:991:LEU:HD11	2.28	0.43
17:Q2:1086:ASP:HB3	17:Q2:1089:LEU:HG	2.00	0.43
19:R2:210:MET:SD	20:S2:333:ILE:HG23	2.59	0.43
19:R2:314:ILE:HD12	20:S2:309:LYS:CE	2.48	0.43
19:R2:533:LEU:HD21	19:R2:537:PHE:CE2	2.54	0.43
20:S1:571:ALA:CB	21:T1:86:ASN:HB3	2.39	0.43
20:S2:391:CYS:O	20:S2:395:ILE:HD11	2.17	0.43
20:S2:400:LEU:HB3	20:S2:426:TYR:OH	2.18	0.43
21:T1:63:HIS:CD2	21:T1:64:PRO:HD2	2.53	0.43
22:U1:245:ILE:CG1	27:Z1:657:TYR:CZ	3.00	0.43
22:U2:131:ASP:OD2	22:U2:135:ARG:NH2	2.51	0.43
23:V1:285:VAL:O	23:V1:289:ILE:HG13	2.18	0.43
23:V2:390:TRP:C	23:V2:393:PRO:HD2	2.39	0.43
24:W1:623:LEU:HD23	24:W1:623:LEU:HA	1.74	0.43
25:X2:714:PHE:HE2	26:Y2:1313:ALA:HA	1.80	0.43
26:Y1:1335:SER:O	26:Y1:1339:PHE:CG	2.69	0.43
26:Y2:1365:ILE:CB	26:Y2:1387:LYS:HB2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:143:VAL:CG2	27:Z1:153:MET:SD	2.79	0.43
27:Z1:184:ASP:OD1	27:Z1:197:LEU:N	2.51	0.43
27:Z1:241:THR:CG2	27:Z1:246:LYS:CE	2.91	0.43
27:Z2:158:ASN:HB3	27:Z2:161:GLU:HG2	2.00	0.43
27:Z2:194:LEU:HD22	27:Z2:211:PHE:CD2	2.53	0.43
1:A1:827:ILE:HG23	1:A1:849:SER:HA	1.90	0.43
1:A2:1201:ARG:CZ	1:A1:647:GLU:HB2	2.32	0.43
1:A2:1226:LEU:HD22	1:A1:647:GLU:N	2.17	0.43
1:A3:1181:THR:OG1	6:F2:798:GLU:OE2	2.36	0.43
1:A3:1399:ARG:NH2	4:D3:865:ASP:OD1	2.27	0.43
4:D1:437:GLY:N	4:D1:438:PRO:HD2	2.33	0.43
4:D1:1047:LEU:CD1	4:D1:1091:THR:HG22	2.49	0.43
4:D3:1056:ARG:O	4:D3:1059:GLU:HB3	2.18	0.43
4:D4:437:GLY:N	4:D4:438:PRO:HD2	2.33	0.43
6:F1:1392:LEU:N	6:F1:1393:PRO:CD	2.82	0.43
6:F2:1392:LEU:N	6:F2:1393:PRO:CD	2.82	0.43
9:I1:1279:THR:N	9:I1:1280:PRO:CD	2.82	0.43
9:I2:894:VAL:HB	13:M3:587:GLU:CD	2.37	0.43
9:I2:1160:ILE:HG22	15:O3:266:GLN:HB3	2.00	0.43
17:Q1:219:ILE:O	17:Q1:219:ILE:HG13	2.18	0.43
17:Q1:567:PHE:CE2	17:Q1:571:VAL:CG1	3.01	0.43
17:Q1:885:VAL:O	17:Q1:885:VAL:HG12	2.17	0.43
17:Q1:1029:LEU:CD2	17:Q1:1037:LEU:HD12	2.48	0.43
17:Q2:556:HIS:O	17:Q2:559:VAL:HB	2.19	0.43
17:Q2:681:ILE:CG2	17:Q2:682:LEU:N	2.82	0.43
17:Q2:718:ILE:CG2	17:Q2:722:PHE:CE1	2.95	0.43
17:Q2:752:GLN:CG	17:Q2:808:TYR:HD1	2.32	0.43
17:Q2:900:MET:CG	17:Q2:931:SER:HB3	2.48	0.43
17:Q2:960:ILE:O	17:Q2:964:LEU:HG	2.19	0.43
18:R1:635:LEU:CD1	18:R1:655:ILE:CG2	2.97	0.43
19:R2:8:GLN:C	19:R2:10:GLU:N	2.68	0.43
19:R2:143:LYS:HG3	19:R2:144:TRP:N	2.32	0.43
19:R2:390:THR:O	19:R2:394:ILE:HG12	2.19	0.43
19:R2:527:VAL:HG23	19:R2:528:HIS:N	2.34	0.43
19:R2:596:GLU:HG3	19:R2:620:LEU:HB2	2.00	0.43
20:S1:391:CYS:O	20:S1:395:ILE:HD11	2.18	0.43
23:V1:58:ILE:HG22	23:V1:59:GLU:N	2.33	0.43
23:V1:328:LEU:HA	23:V1:331:TYR:HB2	2.00	0.43
23:V1:390:TRP:C	23:V1:393:PRO:HD2	2.39	0.43
24:W1:534:ASP:HA	24:W1:537:THR:OG1	2.18	0.43
24:W2:534:ASP:HA	24:W2:537:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W2:668:TYR:CZ	24:W2:672:LYS:HE3	2.53	0.43
25:X1:651:SER:HA	25:X1:654:HIS:ND1	2.34	0.43
25:X1:819:ASN:HA	25:X1:822:LYS:HD2	1.99	0.43
27:Z1:212:LEU:CA	27:Z1:213:PRO:CD	2.96	0.43
27:Z2:10:LEU:HD12	27:Z2:10:LEU:HA	1.83	0.43
27:Z2:212:LEU:CA	27:Z2:213:PRO:CD	2.96	0.43
27:Z2:318:SER:OG	27:Z2:318:SER:O	2.36	0.43
27:Z2:374:TYR:CE1	27:Z2:383:GLN:HG2	2.53	0.43
27:Z2:642:ASN:N	27:Z2:645:VAL:HG23	2.32	0.43
27:Z2:669:THR:HG23	27:Z2:680:TRP:CE2	2.48	0.43
1:A2:1233:GLN:HA	1:A1:587:VAL:CG1	2.48	0.43
1:A3:199:PHE:HA	2:B3:353:LEU:HA	1.99	0.43
1:A3:1400:SER:HB3	4:D3:873:GLN:HB2	1.99	0.43
4:D2:437:GLY:N	4:D2:438:PRO:HD2	2.33	0.43
4:D4:1031:ARG:O	4:D4:1034:SER:OG	2.27	0.43
4:D4:1043:VAL:N	4:D4:1044:PRO:HD2	2.34	0.43
6:F1:134:ASP:OD2	6:F1:1056:ARG:NH2	2.51	0.43
6:F2:134:ASP:OD2	6:F2:1056:ARG:NH2	2.51	0.43
9:I2:810:GLU:OE2	15:O3:249:ARG:HB2	2.19	0.43
9:I2:916:ALA:HB2	15:O3:192:HIS:ND1	2.33	0.43
17:Q1:365:THR:HG21	17:Q1:433:LEU:CD2	2.48	0.43
17:Q1:516:LEU:CD1	17:Q1:573:LYS:HZ1	2.31	0.43
17:Q1:584:LYS:CE	17:Q1:708:TRP:CH2	2.95	0.43
17:Q1:616:LYS:HG2	17:Q1:630:THR:CG2	2.37	0.43
17:Q1:672:LEU:HD22	17:Q1:672:LEU:N	2.33	0.43
17:Q1:681:ILE:CG2	17:Q1:682:LEU:N	2.81	0.43
17:Q1:887:TRP:CB	17:Q1:903:LEU:CD2	2.96	0.43
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CE1	2.87	0.43
17:Q2:546:ILE:HG12	17:Q2:552:THR:HG1	1.83	0.43
17:Q2:584:LYS:HB3	17:Q2:586:ASP:N	2.33	0.43
17:Q2:615:GLU:HG3	17:Q2:645:ILE:CG2	2.36	0.43
17:Q2:980:ILE:HG23	17:Q2:981:ARG:N	2.34	0.43
17:Q2:1006:TYR:CE2	17:Q2:1017:ILE:HD12	2.54	0.43
18:R1:210:MET:SD	20:S1:333:ILE:HG23	2.59	0.43
18:R1:462:ILE:CG2	18:R1:463:GLU:N	2.82	0.43
18:R1:465:ILE:HG23	18:R1:466:ASN:N	2.33	0.43
19:R2:81:LEU:HD12	19:R2:350:VAL:HG12	2.00	0.43
19:R2:678:LEU:CG	19:R2:679:LYS:N	2.82	0.43
20:S2:311:ALA:HB1	20:S2:316:ASN:O	2.18	0.43
20:S2:365:SER:HB3	20:S2:368:GLU:HB2	2.01	0.43
23:V1:215:SER:HB2	23:V1:390:TRP:CZ2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:335:PHE:O	23:V1:339:ILE:HG13	2.19	0.43
23:V2:335:PHE:O	23:V2:339:ILE:HG13	2.18	0.43
24:W2:658:HIS:HA	24:W2:661:GLN:OE1	2.18	0.43
24:W2:736:ASN:C	24:W2:738:ARG:H	2.21	0.43
25:X1:665:TRP:CZ2	25:X1:669:LEU:CD1	2.87	0.43
25:X2:694:ASP:OD2	27:Z2:434:GLN:HB2	2.18	0.43
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:N	2.33	0.43
27:Z1:25:TYR:OH	27:Z1:69:PHE:O	2.36	0.43
27:Z2:415:GLU:OE2	27:Z2:452:SER:C	2.57	0.43
1:A3:1196:GLU:O	1:A3:1200:ARG:HD3	2.19	0.43
4:D2:1043:VAL:N	4:D2:1044:PRO:HD2	2.34	0.43
6:F1:1120:HIS:O	6:F1:1124:THR:HG23	2.18	0.43
6:F1:1808:VAL:C	14:N2:413:VAL:C	2.77	0.43
6:F2:140:GLU:HB3	9:I2:1390:PHE:O	1.88	0.43
7:G1:251:TYR:O	15:O2:246:LEU:CA	2.66	0.43
9:I2:72:GLU:N	9:I2:72:GLU:OE1	2.52	0.43
9:I2:888:GLU:OE1	13:M3:595:MET:C	2.50	0.43
9:I2:900:ARG:CB	13:M3:584:GLN:OE1	2.67	0.43
9:I2:963:LEU:HB3	16:P3:151:LYS:HD2	1.05	0.43
9:I2:1099:ARG:HG2	15:O3:268:GLY:CA	2.33	0.43
14:N4:429:GLU:OE2	14:N4:429:GLU:N	2.52	0.43
17:Q1:542:ASN:HD21	17:Q1:564:PHE:HB2	1.80	0.43
17:Q1:584:LYS:HB3	17:Q1:586:ASP:N	2.34	0.43
17:Q1:681:ILE:HD13	17:Q1:681:ILE:C	2.38	0.43
17:Q1:745:ILE:CD1	17:Q1:800:GLN:CG	2.94	0.43
17:Q1:856:LYS:CB	17:Q1:859:ASP:HB2	2.37	0.43
17:Q2:140:LEU:HD23	17:Q2:141:THR:C	2.39	0.43
17:Q2:181:ILE:HG21	17:Q2:183:ASN:ND2	2.34	0.43
17:Q2:305:THR:CG2	17:Q2:306:LYS:N	2.82	0.43
17:Q2:351:ILE:CG2	17:Q2:352:TYR:N	2.82	0.43
17:Q2:823:GLN:O	17:Q2:824:ASN:HB3	2.19	0.43
17:Q2:890:GLN:OE1	17:Q2:898:ASP:HB3	2.19	0.43
17:Q2:1009:LEU:HB2	17:Q2:1014:SER:OG	2.18	0.43
17:Q2:1081:VAL:HG22	17:Q2:1129:LEU:HD23	2.01	0.43
18:R1:510:LEU:N	18:R1:510:LEU:HD22	2.34	0.43
19:R2:23:LYS:HD2	19:R2:434:THR:HG21	2.00	0.43
19:R2:721:THR:CA	19:R2:724:LEU:CD1	2.95	0.43
20:S1:168:LYS:HE2	21:T1:45:LEU:HB2	2.01	0.43
23:V1:202:SER:HA	23:V1:297:LYS:O	2.18	0.43
25:X1:648:LEU:HD21	27:Z1:535:PHE:CE1	2.53	0.43
25:X2:774:ASN:CB	25:X2:794:ILE:C	2.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1314:LYS:O	26:Y1:1318:LEU:CG	2.65	0.43
26:Y2:1229:MET:HB3	26:Y2:1233:ARG:NH1	2.34	0.43
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CD	2.71	0.43
27:Z1:240:THR:O	27:Z1:240:THR:HG22	2.17	0.43
27:Z2:58:ASN:ND2	27:Z2:60:SER:OG	2.47	0.43
27:Z2:280:LYS:CE	27:Z2:340:ASP:OD1	2.63	0.43
27:Z2:564:LEU:O	27:Z2:568:CYS:SG	2.63	0.43
1:A2:1017:THR:HG21	1:A2:1048:ARG:NH1	2.33	0.43
4:D1:1037:GLN:N	4:D1:1038:PRO:HD2	2.33	0.43
4:D1:1043:VAL:N	4:D1:1044:PRO:HD2	2.34	0.43
4:D3:522:VAL:HG21	4:D3:569:GLU:HG2	2.01	0.43
4:D3:1047:LEU:CD1	4:D3:1091:THR:HG22	2.49	0.43
4:D4:1047:LEU:CD1	4:D4:1091:THR:HG22	2.49	0.43
6:F1:156:LEU:CD1	9:I1:1392:VAL:HG22	2.49	0.43
6:F1:983:SER:CB	9:I1:1459:ASN:OD1	2.65	0.43
9:I1:976:ARG:NH1	15:O1:174:LEU:HG	2.33	0.43
9:I1:978:LYS:CG	15:O1:176:ARG:HB3	2.49	0.43
9:I2:923:GLY:HA2	15:O3:190:ARG:NH2	2.26	0.43
9:I2:1102:GLN:C	15:O3:275:LEU:HB3	2.37	0.43
9:I2:1308:THR:CB	14:N3:414:ALA:N	2.74	0.43
15:O3:98:TYR:HD2	15:O3:125:ALA:HB2	1.83	0.43
17:Q1:276:LEU:HD11	17:Q1:282:LEU:HD23	1.96	0.43
17:Q1:636:ILE:HG13	17:Q1:637:ASN:H	1.83	0.43
17:Q1:759:TRP:CH2	17:Q1:779:ASN:ND2	2.87	0.43
17:Q1:888:ILE:CG2	17:Q1:889:GLN:N	2.82	0.43
17:Q1:922:LEU:CG	18:R1:688:LEU:HB3	2.48	0.43
17:Q1:943:THR:O	17:Q1:946:LYS:HD2	2.19	0.43
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CZ	2.87	0.43
17:Q2:400:PHE:HD1	17:Q2:460:TYR:CD1	2.37	0.43
17:Q2:527:ILE:CD1	17:Q2:530:ASP:CB	2.95	0.43
17:Q2:681:ILE:HG23	17:Q2:682:LEU:N	2.32	0.43
17:Q2:715:LEU:C	17:Q2:717:CYS:H	2.22	0.43
17:Q2:802:ILE:CG2	17:Q2:803:GLN:N	2.82	0.43
17:Q2:933:LEU:HD23	19:R2:711:LEU:HB2	1.99	0.43
17:Q2:1068:GLU:O	17:Q2:1069:GLU:HB2	2.19	0.43
17:Q2:1143:GLU:HA	17:Q2:1143:GLU:OE1	2.18	0.43
18:R1:81:LEU:HD12	18:R1:350:VAL:HG12	2.00	0.43
18:R1:382:LYS:HA	18:R1:383:PRO:HD3	1.77	0.43
19:R2:109:LEU:HD23	19:R2:298:ILE:HG13	2.00	0.43
19:R2:682:LYS:CG	19:R2:683:PHE:H	2.19	0.43
20:S1:400:LEU:HB3	20:S1:426:TYR:OH	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:202:SER:HA	23:V2:297:LYS:O	2.18	0.43
26:Y1:1406:VAL:HG12	26:Y1:1410:GLN:NE2	2.34	0.43
26:Y1:1446:LYS:HB3	27:Z1:330:ASP:OD1	2.18	0.43
26:Y2:1236:ASP:O	26:Y2:1239:PHE:CD2	2.71	0.43
27:Z1:68:THR:C	27:Z1:84:ASN:OD1	2.57	0.43
27:Z1:431:TRP:N	27:Z1:434:GLN:O	2.49	0.43
27:Z2:212:LEU:HA	27:Z2:213:PRO:CD	2.49	0.43
27:Z2:356:LEU:HB3	27:Z2:358:ARG:CZ	2.48	0.43
27:Z2:431:TRP:N	27:Z2:434:GLN:O	2.49	0.43
1:A2:1204:TRP:CD1	1:A1:599:ARG:CG	3.02	0.43
1:A2:1221:ILE:CG1	1:A1:596:ARG:C	2.87	0.43
1:A2:1271:ILE:HG12	1:A1:730:THR:HB	2.00	0.43
4:D1:522:VAL:HG21	4:D1:569:GLU:HG2	2.01	0.43
6:F1:158:PRO:HG3	9:I1:1340:LEU:CB	2.49	0.43
6:F1:1265:GLN:HG3	15:O2:252:VAL:CG2	2.48	0.43
9:I1:352:ASN:OD1	9:I1:353:LEU:N	2.52	0.43
9:I1:980:ILE:HG13	15:O1:172:ALA:O	2.13	0.43
9:I1:1667:GLN:HA	9:I2:1668:HIS:CA	2.49	0.43
9:I1:1667:GLN:O	9:I2:1668:HIS:C	2.57	0.43
9:I2:916:ALA:HB3	15:O3:189:ARG:O	0.61	0.43
9:I2:967:SER:O	16:P3:149:ARG:CB	2.60	0.43
9:I2:1099:ARG:C	13:M3:611:LYS:HB2	2.39	0.43
17:Q1:58:SER:HB2	17:Q1:70:LYS:CE	2.43	0.43
17:Q1:644:VAL:CG1	17:Q1:645:ILE:N	2.82	0.43
17:Q1:1016:PHE:CZ	17:Q1:1070:LEU:HD21	2.45	0.43
17:Q2:142:PHE:CG	17:Q2:143:PRO:CD	3.02	0.43
17:Q2:570:PHE:CZ	17:Q2:574:ASN:ND2	2.86	0.43
17:Q2:891:ILE:HD11	19:R2:715:LEU:HD11	2.01	0.43
17:Q2:892:LEU:HD23	17:Q2:892:LEU:C	2.39	0.43
18:R1:314:ILE:HD12	20:S1:309:LYS:CE	2.48	0.43
18:R1:634:PHE:CZ	18:R1:635:LEU:CG	2.95	0.43
20:S1:311:ALA:HB1	20:S1:316:ASN:O	2.18	0.43
20:S1:365:SER:HB3	20:S1:368:GLU:HB2	2.01	0.43
21:T2:52:HIS:CE1	21:T2:80:LEU:HD12	2.53	0.43
23:V1:221:GLU:HA	23:V1:224:ILE:HG13	2.00	0.43
24:W1:177:PHE:HD1	24:W1:183:LEU:HD22	1.84	0.43
25:X1:648:LEU:CG	27:Z2:547:VAL:CG1	2.84	0.43
25:X2:684:VAL:HG12	27:Z2:445:LEU:HD12	1.99	0.43
26:Y1:1228:LEU:HB3	27:Z1:543:GLN:HB3	1.90	0.43
26:Y2:1302:ASP:O	26:Y2:1306:ILE:CG1	2.45	0.43
27:Z1:149:ASP:OD1	27:Z1:182:ILE:HB	2.12	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:194:LEU:HD22	27:Z1:211:PHE:CD2	2.53	0.43
27:Z1:319:PHE:CE2	27:Z1:325:ILE:HG13	2.54	0.43
27:Z1:326:LEU:O	27:Z1:350:LEU:HD12	2.19	0.43
27:Z1:550:HIS:HE1	27:Z2:357:GLN:OE1	2.02	0.43
27:Z2:68:THR:C	27:Z2:84:ASN:HD21	2.22	0.43
27:Z2:78:ASP:O	27:Z2:78:ASP:OD1	2.37	0.43
27:Z2:184:ASP:OD1	27:Z2:197:LEU:N	2.51	0.43
27:Z2:329:LYS:CE	27:Z2:333:MET:CG	2.88	0.43
1:A2:1328:ARG:CD	4:D1:976:ARG:HD3	2.45	0.43
1:A3:1086:LYS:CB	4:D3:1096:TYR:CE2	2.90	0.43
4:D2:1037:GLN:N	4:D2:1038:PRO:HD2	2.33	0.43
4:D4:522:VAL:HG21	4:D4:569:GLU:HG2	2.01	0.43
4:D4:1037:GLN:N	4:D4:1038:PRO:HD2	2.33	0.43
6:F1:135:VAL:HG13	9:I1:1336:MET:HG3	1.83	0.43
6:F1:1807:GLU:HA	14:N2:411:GLN:HE22	1.77	0.43
6:F2:1837:LYS:O	6:F2:1841:LEU:HD13	2.18	0.43
9:I2:968:PRO:CD	14:N3:300:ALA:HB1	2.47	0.43
9:I2:1048:GLU:OE2	14:N3:293:LYS:CD	2.67	0.43
9:I2:1279:THR:N	9:I2:1280:PRO:CD	2.81	0.43
15:O4:156:ILE:HG22	15:O4:157:THR:N	2.34	0.43
16:P1:147:LEU:O	16:P1:151:LYS:N	2.52	0.43
17:Q1:103:LYS:HG3	17:Q1:104:LYS:HG3	2.01	0.43
17:Q1:391:THR:CG2	17:Q1:392:ASP:N	2.82	0.43
17:Q1:545:TYR:CZ	17:Q1:546:ILE:HG23	2.54	0.43
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:CB	2.31	0.43
17:Q1:630:THR:CG2	17:Q1:631:THR:N	2.81	0.43
17:Q1:689:ILE:CG2	17:Q1:690:ARG:N	2.82	0.43
17:Q1:856:LYS:O	17:Q1:859:ASP:HB2	2.18	0.43
17:Q1:960:ILE:O	17:Q1:964:LEU:HG	2.19	0.43
17:Q1:980:ILE:CG2	17:Q1:981:ARG:N	2.82	0.43
17:Q1:1143:GLU:HA	17:Q1:1143:GLU:OE1	2.18	0.43
17:Q2:73:GLN:CD	17:Q2:73:GLN:H	2.21	0.43
17:Q2:139:ILE:O	17:Q2:139:ILE:HG23	2.19	0.43
17:Q2:689:ILE:CG2	17:Q2:690:ARG:N	2.82	0.43
17:Q2:748:ILE:HG23	17:Q2:749:LEU:N	2.32	0.43
17:Q2:1047:LEU:HD13	17:Q2:1047:LEU:O	2.19	0.43
18:R1:527:VAL:CG2	18:R1:528:HIS:N	2.82	0.43
18:R1:538:LEU:HG	18:R1:659:TYR:HE1	1.77	0.43
18:R1:660:THR:HG23	18:R1:661:PRO:CD	2.45	0.43
19:R2:527:VAL:HG12	19:R2:557:GLU:HG3	2.01	0.43
19:R2:543:VAL:HG12	19:R2:594:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:617:ILE:HD11	19:R2:670:LYS:HG2	2.00	0.43
19:R2:678:LEU:CG	19:R2:679:LYS:H	2.32	0.43
22:U1:107:SER:HA	22:U1:135:ARG:HH21	1.83	0.43
23:V2:141:ASN:N	23:V2:141:ASN:HD22	2.16	0.43
24:W2:92:THR:HG21	24:W2:479:TYR:OH	2.19	0.43
24:W2:386:LEU:HD23	24:W2:621:GLN:HA	2.01	0.43
24:W2:508:LYS:O	24:W2:512:THR:HG23	2.19	0.43
25:X1:665:TRP:CH2	27:Z1:556:GLN:CA	2.82	0.43
25:X2:687:GLU:OE2	27:Z2:573:LYS:CD	2.55	0.43
25:X2:695:GLN:CA	27:Z2:431:TRP:HA	2.49	0.43
26:Y2:1267:GLU:CG	26:Y2:1268:ILE:N	2.82	0.43
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:N	2.57	0.43
27:Z1:223:LEU:HD12	27:Z1:263:TRP:CZ2	2.54	0.43
27:Z1:420:ILE:HD13	27:Z1:424:PRO:CD	2.48	0.43
27:Z2:115:SER:HB2	27:Z2:117:ASP:OD1	2.19	0.43
27:Z2:240:THR:O	27:Z2:240:THR:HG22	2.18	0.43
1:A3:1328:ARG:CZ	4:D3:872:LEU:HD21	2.48	0.43
4:D1:836:LEU:HA	4:D1:850:VAL:HG12	2.01	0.43
4:D2:461:PRO:HG2	4:D2:747:TYR:CE1	2.53	0.43
4:D4:1056:ARG:O	4:D4:1059:GLU:HB3	2.18	0.43
9:I1:923:GLY:H	15:O1:191:ARG:HG3	1.82	0.43
9:I2:894:VAL:CA	13:M3:587:GLU:HG2	2.48	0.43
9:I2:1032:THR:HA	13:M3:618:GLN:HA	0.84	0.43
15:O2:156:ILE:HG22	15:O2:157:THR:N	2.34	0.43
17:Q1:165:ILE:HD13	17:Q1:174:TYR:CD1	2.54	0.43
17:Q1:234:ARG:HB3	17:Q1:238:GLY:HA2	2.01	0.43
17:Q1:332:LYS:CB	17:Q1:352:TYR:CE2	2.94	0.43
17:Q1:384:ASN:HB3	17:Q1:509:ALA:H	0.27	0.43
17:Q1:688:THR:HG22	17:Q1:692:GLU:CB	2.43	0.43
17:Q1:777:ILE:C	17:Q1:779:ASN:H	2.23	0.43
17:Q1:838:GLU:HG3	17:Q1:839:PHE:N	2.33	0.43
17:Q1:1006:TYR:CE2	17:Q1:1017:ILE:HD12	2.54	0.43
17:Q1:1029:LEU:HD23	17:Q1:1033:VAL:CG1	2.49	0.43
17:Q2:454:ASP:HB3	17:Q2:470:LYS:HZ2	1.84	0.43
17:Q2:811:LEU:CD2	17:Q2:814:LEU:CD2	2.97	0.43
17:Q2:887:TRP:CB	17:Q2:903:LEU:CD2	2.96	0.43
17:Q2:1016:PHE:CE1	17:Q2:1065:VAL:HG13	2.53	0.43
18:R1:77:LEU:HG	18:R1:125:TRP:CD2	2.54	0.43
18:R1:390:THR:O	18:R1:394:ILE:HG12	2.19	0.43
18:R1:555:ILE:CG2	18:R1:556:GLY:N	2.82	0.43
18:R1:558:ILE:CG2	18:R1:581:LEU:CD1	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:585:THR:HG22	18:R1:589:HIS:CD2	2.54	0.43
18:R1:604:VAL:CG1	18:R1:605:SER:N	2.82	0.43
18:R1:678:LEU:HD13	18:R1:685:SER:OG	2.19	0.43
18:R1:678:LEU:CG	18:R1:679:LYS:N	2.82	0.43
19:R2:293:ILE:HD11	19:R2:327:VAL:CG2	2.49	0.43
19:R2:678:LEU:HD13	19:R2:685:SER:OG	2.19	0.43
20:S2:216:LEU:O	20:S2:217:LEU:HD23	2.19	0.43
20:S2:416:ASP:HA	20:S2:443:THR:CG2	2.44	0.43
21:T2:63:HIS:CD2	21:T2:64:PRO:HD2	2.53	0.43
21:T2:280:LEU:HB2	21:T2:292:ALA:O	2.19	0.43
23:V2:57:PRO:HB3	23:V2:91:TYR:OH	2.19	0.43
24:W1:295:ASN:ND2	24:W1:329:TRP:O	2.52	0.43
24:W1:627:TYR:HA	24:W1:661:GLN:OE1	2.19	0.43
25:X2:699:TYR:CB	27:Z2:49:LEU:CD1	2.31	0.43
25:X2:777:ASN:N	25:X2:794:ILE:HG22	2.34	0.43
26:Y1:1305:GLN:CD	27:Z1:599:MET:CG	2.87	0.43
26:Y1:1335:SER:C	26:Y1:1339:PHE:CD1	2.92	0.43
26:Y1:1384:LYS:N	26:Y2:1364:ASN:HB2	2.27	0.43
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CD	2.71	0.43
26:Y2:1298:TYR:CE2	27:Z2:591:GLN:HB2	2.53	0.43
27:Z1:58:ASN:HD21	27:Z1:60:SER:HG	1.66	0.43
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CD1	2.53	0.43
27:Z1:381:ILE:CG2	27:Z1:417:ILE:CG1	2.84	0.43
27:Z1:401:ASP:O	27:Z2:262:ASN:HB3	2.16	0.43
27:Z1:541:LYS:C	27:Z2:551:ASN:HA	2.25	0.43
27:Z1:634:ILE:HG23	27:Z1:638:ILE:HD11	2.00	0.43
27:Z2:326:LEU:O	27:Z2:350:LEU:HD12	2.19	0.43
27:Z2:598:LEU:CD2	27:Z2:601:ARG:NH2	2.63	0.43
1:A1:827:ILE:HB	1:A1:849:SER:N	2.31	0.43
1:A2:1228:TYR:CE1	1:A1:643:ALA:N	2.87	0.42
1:A3:1223:GLU:CB	1:A4:648:TYR:CE2	0.81	0.42
1:A4:1196:GLU:O	1:A4:1200:ARG:HD3	2.19	0.42
4:D1:395:LEU:HD11	4:D1:735:VAL:HG21	2.01	0.42
4:D3:1043:VAL:N	4:D3:1044:PRO:HD2	2.34	0.42
6:F1:133:GLN:HB2	9:I1:1389:GLN:NE2	2.33	0.42
6:F2:133:GLN:C	9:I2:1388:GLU:OE1	2.57	0.42
6:F2:1267:ARG:HH11	15:O4:262:ASP:HB3	1.68	0.42
9:I1:918:SER:N	15:O1:193:ALA:H	2.03	0.42
9:I1:965:ALA:CB	15:O1:185:ALA:CB	2.73	0.42
9:I2:1051:LYS:C	9:I2:1052:LEU:HD12	2.40	0.42
9:I2:1106:LYS:HB3	15:O3:280:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1302:ARG:O	9:I2:1306:LEU:HD13	2.19	0.42
9:I2:1308:THR:HG21	14:N3:414:ALA:HB2	1.99	0.42
10:J1:252:LEU:CD2	15:O1:269:ILE:C	2.87	0.42
13:M3:473:ARG:NH2	13:M4:540:TRP:CD2	2.86	0.42
17:Q1:140:LEU:HD23	17:Q1:141:THR:C	2.39	0.42
17:Q1:394:LYS:CG	17:Q1:395:PHE:N	2.82	0.42
17:Q1:517:PRO:CA	17:Q1:520:ILE:HG22	2.39	0.42
17:Q1:545:TYR:CD1	17:Q1:546:ILE:HG23	2.54	0.42
17:Q1:611:ASN:CA	17:Q1:614:TRP:HE3	2.26	0.42
17:Q1:617:THR:CG2	17:Q1:618:LEU:N	2.82	0.42
17:Q1:631:THR:HG23	17:Q1:634:VAL:CG1	2.45	0.42
17:Q1:752:GLN:CG	17:Q1:808:TYR:HD1	2.32	0.42
17:Q1:801:CYS:SG	17:Q1:814:LEU:CD1	3.07	0.42
17:Q1:854:HIS:CG	18:R1:726:ASN:ND2	2.87	0.42
17:Q1:890:GLN:OE1	17:Q1:898:ASP:HB3	2.19	0.42
17:Q1:1047:LEU:HD13	17:Q1:1047:LEU:O	2.19	0.42
17:Q1:1049:ASN:OD1	17:Q1:1055:ASP:HA	2.19	0.42
17:Q1:1068:GLU:O	17:Q1:1069:GLU:HB2	2.19	0.42
17:Q2:103:LYS:HG3	17:Q2:104:LYS:HG3	2.01	0.42
17:Q2:210:LEU:HD13	17:Q2:211:MET:CA	2.48	0.42
17:Q2:427:THR:CG2	17:Q2:428:GLN:N	2.81	0.42
17:Q2:515:ASN:C	17:Q2:518:PRO:HD2	2.40	0.42
17:Q2:545:TYR:CZ	17:Q2:546:ILE:HG23	2.54	0.42
17:Q2:670:THR:CB	17:Q2:743:LEU:HD13	2.49	0.42
17:Q2:795:VAL:CG1	17:Q2:796:ASN:N	2.82	0.42
17:Q2:856:LYS:HB3	17:Q2:858:ASN:C	2.40	0.42
17:Q2:1024:VAL:CG2	17:Q2:1025:ASP:N	2.82	0.42
17:Q2:1049:ASN:OD1	17:Q2:1055:ASP:HA	2.19	0.42
18:R1:535:ARG:HD3	18:R1:583:GLU:OE1	2.19	0.42
18:R1:596:GLU:HG2	18:R1:620:LEU:N	2.34	0.42
18:R1:596:GLU:HG3	18:R1:620:LEU:HB2	2.00	0.42
19:R2:590:LEU:CD1	19:R2:594:ILE:HD11	2.49	0.42
19:R2:596:GLU:HG2	19:R2:620:LEU:N	2.34	0.42
20:S1:452:TRP:CD1	20:S1:475:THR:HA	2.54	0.42
20:S2:203:ARG:NE	20:S2:210:GLN:HB2	2.34	0.42
22:U1:303:HIS:HA	22:U1:325:ASP:OD2	2.19	0.42
23:V2:328:LEU:HA	23:V2:331:TYR:HB2	2.00	0.42
26:Y1:1298:TYR:CE2	27:Z1:591:GLN:HB2	2.54	0.42
27:Z1:85:ASP:CA	27:Z1:127:ILE:HG13	2.49	0.42
27:Z1:128:LYS:CE	27:Z1:147:GLU:HB3	2.47	0.42
27:Z2:15:ALA:O	27:Z2:16:SER:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:85:ASP:CA	27:Z2:127:ILE:HG13	2.49	0.42
27:Z2:116:ILE:HD11	27:Z2:125:SER:N	2.34	0.42
27:Z2:120:GLU:O	27:Z2:124:LYS:CE	2.67	0.42
1:A2:780:GLU:HG3	1:A2:822:ILE:HG23	2.01	0.42
1:A2:1331:GLU:O	4:D1:899:THR:O	2.37	0.42
1:A3:1270:SER:HA	1:A4:729:SER:HB3	1.05	0.42
5:E3:67:ASP:N	5:E3:68:PRO:CD	2.82	0.42
5:E4:67:ASP:N	5:E4:68:PRO:CD	2.82	0.42
7:G1:251:TYR:O	15:O2:246:LEU:CB	2.67	0.42
9:I1:72:GLU:N	9:I1:72:GLU:OE1	2.52	0.42
9:I2:352:ASN:OD1	9:I2:353:LEU:N	2.52	0.42
9:I2:480:ASP:OD1	9:I2:481:ALA:N	2.51	0.42
15:O1:98:TYR:HD2	15:O1:125:ALA:HB2	1.83	0.42
16:P2:147:LEU:O	16:P2:151:LYS:N	2.52	0.42
17:Q1:704:SER:O	17:Q1:710:ILE:HD12	2.19	0.42
17:Q1:716:ASN:HA	17:Q1:719:ASN:CB	2.49	0.42
17:Q1:802:ILE:CG2	17:Q1:803:GLN:N	2.82	0.42
17:Q1:960:ILE:CG2	17:Q1:961:SER:N	2.82	0.42
17:Q2:141:THR:CG2	17:Q2:163:GLY:CA	2.95	0.42
17:Q2:264:ASN:CA	17:Q2:289:LYS:HB2	2.48	0.42
17:Q2:570:PHE:CE1	17:Q2:574:ASN:ND2	2.87	0.42
17:Q2:688:THR:CG2	17:Q2:692:GLU:HG2	2.44	0.42
17:Q2:815:VAL:HG23	17:Q2:816:GLN:N	2.33	0.42
17:Q2:887:TRP:HA	17:Q2:890:GLN:HG2	2.01	0.42
17:Q2:888:ILE:CG2	17:Q2:889:GLN:N	2.82	0.42
17:Q2:943:THR:O	17:Q2:946:LYS:HD2	2.19	0.42
17:Q2:975:PHE:CE1	17:Q2:1044:ARG:NH2	2.87	0.42
17:Q2:1122:THR:CG2	17:Q2:1123:LEU:N	2.82	0.42
18:R1:86:ASN:C	18:R1:88:ASP:H	2.22	0.42
18:R1:480:THR:CG2	18:R1:481:GLN:N	2.82	0.42
19:R2:527:VAL:CG2	19:R2:528:HIS:N	2.82	0.42
19:R2:635:LEU:CD1	19:R2:655:ILE:CB	2.94	0.42
20:S1:418:PRO:HB3	20:S1:445:ALA:HB1	2.02	0.42
20:S1:531:LEU:O	20:S1:532:LYS:HG2	2.19	0.42
22:U2:76:SER:HB3	22:U2:78:ASP:OD1	2.19	0.42
23:V1:215:SER:HB2	23:V1:390:TRP:CH2	2.54	0.42
23:V2:149:GLU:HG3	23:V2:186:ARG:NE	2.34	0.42
24:W2:59:CYS:HB2	24:W2:464:THR:OG1	2.19	0.42
24:W2:177:PHE:HD1	24:W2:183:LEU:HD22	1.84	0.42
24:W2:436:HIS:CD2	24:W2:438:GLU:H	2.38	0.42
24:W2:627:TYR:HA	24:W2:661:GLN:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:651:SER:HA	25:X2:654:HIS:ND1	2.34	0.42
26:Y2:1223:ALA:O	26:Y2:1227:VAL:HG23	2.19	0.42
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:HD21	2.36	0.42
26:Y2:1443:MET:HE3	27:Z2:332:GLU:CB	2.48	0.42
27:Z1:115:SER:HB2	27:Z1:117:ASP:OD1	2.19	0.42
27:Z1:116:ILE:HD11	27:Z1:125:SER:N	2.34	0.42
27:Z1:239:SER:C	27:Z1:241:THR:N	2.72	0.42
27:Z1:401:ASP:OD2	27:Z2:260:HIS:O	2.37	0.42
27:Z2:26:ILE:HG21	27:Z2:440:MET:CG	2.48	0.42
27:Z2:148:ASP:HB2	27:Z2:150:THR:HG23	1.95	0.42
1:A3:1087:GLY:HA3	4:D3:1095:ARG:HG3	1.95	0.42
4:D2:836:LEU:HA	4:D2:850:VAL:HG12	2.01	0.42
4:D3:395:LEU:HD11	4:D3:735:VAL:HG21	2.01	0.42
4:D3:1031:ARG:O	4:D3:1034:SER:OG	2.27	0.42
5:E2:67:ASP:N	5:E2:68:PRO:CD	2.82	0.42
6:F2:215:ASP:OD1	6:F2:218:ARG:NH2	2.52	0.42
7:G1:250:THR:CB	15:O2:247:TRP:CH2	3.02	0.42
9:I1:480:ASP:OD1	9:I1:481:ALA:N	2.51	0.42
9:I1:962:ILE:O	15:O1:182:THR:HB	1.94	0.42
9:I2:899:LEU:CA	13:M3:580:LYS:C	2.74	0.42
9:I2:928:LEU:HD12	15:O3:180:ASP:N	2.16	0.42
14:N2:368:ASN:OD1	15:O2:210:ARG:NH2	2.52	0.42
17:Q1:142:PHE:CG	17:Q1:143:PRO:CD	3.02	0.42
17:Q1:429:VAL:CG1	17:Q1:430:ASN:N	2.83	0.42
17:Q1:490:GLU:HB2	17:Q1:493:PHE:HD1	1.84	0.42
17:Q1:556:HIS:O	17:Q1:559:VAL:HB	2.18	0.42
17:Q1:847:LEU:CD2	17:Q1:875:PHE:CD2	2.94	0.42
17:Q1:892:LEU:HD23	17:Q1:892:LEU:C	2.40	0.42
17:Q1:973:LYS:HD3	17:Q1:976:LYS:HZ1	1.84	0.42
17:Q2:391:THR:CG2	17:Q2:392:ASP:N	2.82	0.42
17:Q2:759:TRP:CH2	17:Q2:779:ASN:ND2	2.87	0.42
17:Q2:820:THR:CG2	17:Q2:821:LEU:N	2.83	0.42
17:Q2:836:PHE:HD2	17:Q2:842:GLU:CD	2.23	0.42
17:Q2:1040:LEU:O	17:Q2:1044:ARG:HG3	2.19	0.42
17:Q2:1087:LYS:CG	17:Q2:1117:ILE:HG21	2.50	0.42
18:R1:22:PHE:CG	18:R1:38:ILE:HD11	2.54	0.42
18:R1:543:VAL:HG12	18:R1:594:ILE:CD1	2.49	0.42
18:R1:590:LEU:CD1	18:R1:594:ILE:HD11	2.49	0.42
19:R2:22:PHE:CG	19:R2:38:ILE:HD11	2.54	0.42
19:R2:86:ASN:C	19:R2:88:ASP:H	2.23	0.42
19:R2:510:LEU:N	19:R2:510:LEU:HD22	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:635:LEU:CD1	19:R2:655:ILE:CG2	2.97	0.42
23:V2:58:ILE:HG22	23:V2:59:GLU:N	2.33	0.42
23:V2:269:ASP:OD1	23:V2:269:ASP:N	2.52	0.42
23:V2:454:LEU:HD21	23:V2:503:VAL:HG21	2.01	0.42
24:W1:92:THR:HG21	24:W1:479:TYR:OH	2.19	0.42
24:W1:180:ASP:HA	24:W1:220:TYR:CD1	2.54	0.42
24:W1:386:LEU:HD23	24:W1:621:GLN:HA	2.01	0.42
24:W2:427:LEU:HD13	24:W2:442:TYR:CE1	2.54	0.42
25:X2:714:PHE:CE2	26:Y2:1316:GLU:CG	2.98	0.42
26:Y2:1125:ASP:N	26:Y2:1126:LEU:CD1	2.79	0.42
26:Y2:1406:VAL:HG12	26:Y2:1410:GLN:NE2	2.34	0.42
27:Z1:97:TYR:HE1	27:Z2:626:GLY:C	2.22	0.42
27:Z1:401:ASP:HA	27:Z2:261:GLU:HB3	2.01	0.42
27:Z2:68:THR:C	27:Z2:84:ASN:OD1	2.57	0.42
27:Z2:129:LYS:HG2	27:Z2:145:LEU:CB	2.21	0.42
1:A1:1196:GLU:O	1:A1:1200:ARG:HD3	2.19	0.42
1:A2:1203:TYR:O	1:A1:599:ARG:NH2	2.51	0.42
1:A2:1226:LEU:CD1	1:A1:646:ILE:CB	2.95	0.42
1:A2:1332:ARG:O	4:D1:905:SER:HB2	2.19	0.42
4:D4:395:LEU:HD11	4:D4:735:VAL:HG21	2.01	0.42
6:F1:924:GLU:OE2	6:F1:988:ARG:NE	2.53	0.42
6:F1:997:LEU:HD11	9:I1:1391:THR:HG21	2.00	0.42
6:F2:1267:ARG:NE	15:O4:259:ASP:OD1	2.52	0.42
9:I2:906:GLY:C	13:M3:573:ARG:NH1	2.73	0.42
9:I2:1048:GLU:CD	14:N3:289:PHE:CE2	2.92	0.42
15:O4:75:ILE:N	15:O4:76:PRO:CD	2.83	0.42
17:Q1:383:LEU:HA	17:Q1:508:ASN:CA	2.36	0.42
17:Q1:467:VAL:HG13	17:Q1:467:VAL:O	2.19	0.42
17:Q1:598:ILE:CG2	17:Q1:599:LYS:N	2.82	0.42
17:Q1:748:ILE:CG2	17:Q1:749:LEU:N	2.82	0.42
17:Q1:988:VAL:CG1	17:Q1:989:GLU:N	2.83	0.42
17:Q2:76:TYR:CG	17:Q2:470:LYS:O	2.73	0.42
17:Q2:136:PRO:HB3	17:Q2:168:LYS:HG2	2.01	0.42
17:Q2:196:LEU:HD11	17:Q2:198:LEU:HD23	1.95	0.42
17:Q2:498:VAL:CG1	17:Q2:499:ASP:N	2.82	0.42
17:Q2:538:ILE:CG2	17:Q2:539:PHE:N	2.82	0.42
17:Q2:588:ILE:CG2	17:Q2:589:GLU:N	2.82	0.42
17:Q2:598:ILE:CG2	17:Q2:599:LYS:N	2.82	0.42
17:Q2:790:HIS:O	17:Q2:793:CYS:HB2	2.19	0.42
17:Q2:824:ASN:OD1	17:Q2:832:TYR:HB2	2.19	0.42
17:Q2:828:THR:OG1	17:Q2:868:HIS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:960:ILE:CG2	17:Q2:961:SER:N	2.82	0.42
17:Q2:980:ILE:CG2	17:Q2:981:ARG:N	2.82	0.42
17:Q2:1097:GLU:CG	17:Q2:1098:THR:N	2.82	0.42
18:R1:227:ILE:C	18:R1:229:ASN:H	2.22	0.42
18:R1:527:VAL:HG23	18:R1:528:HIS:N	2.33	0.42
18:R1:538:LEU:CD1	18:R1:546:LEU:CD1	2.97	0.42
18:R1:620:LEU:HD12	18:R1:670:LYS:CE	2.50	0.42
18:R1:627:THR:CG2	18:R1:628:PHE:N	2.82	0.42
18:R1:677:LEU:H	18:R1:677:LEU:CD2	2.32	0.42
18:R1:721:THR:CA	18:R1:724:LEU:CD1	2.95	0.42
19:R2:514:VAL:CG1	19:R2:515:GLU:N	2.82	0.42
19:R2:558:ILE:CG2	19:R2:581:LEU:CD1	2.97	0.42
19:R2:604:VAL:CG1	19:R2:605:SER:N	2.82	0.42
19:R2:627:THR:CG2	19:R2:628:PHE:N	2.82	0.42
20:S1:203:ARG:NE	20:S1:210:GLN:HB2	2.34	0.42
21:T1:280:LEU:HB2	21:T1:292:ALA:O	2.19	0.42
22:U1:288:LEU:O	25:X1:797:LEU:CB	2.14	0.42
24:W1:53:GLY:HA3	24:W1:71:HIS:HB3	2.01	0.42
24:W1:427:LEU:HD13	24:W1:442:TYR:CE1	2.53	0.42
24:W1:523:ASP:OD2	24:W1:738:ARG:CB	2.68	0.42
25:X2:645:THR:CA	27:Z2:535:PHE:CE2	3.02	0.42
25:X2:695:GLN:O	27:Z2:48:VAL:HG12	2.19	0.42
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:CG	2.39	0.42
26:Y1:1412:GLU:HB3	26:Y1:1412:GLU:C	2.39	0.42
26:Y2:1228:LEU:HB3	27:Z2:543:GLN:HB3	1.90	0.42
26:Y2:1269:LEU:O	26:Y2:1273:GLN:HG3	2.20	0.42
26:Y2:1453:PHE:HB2	27:Z2:349:VAL:CG1	2.49	0.42
27:Z2:26:ILE:HG21	27:Z2:440:MET:SD	2.41	0.42
27:Z2:641:PHE:HZ	27:Z2:645:VAL:HG22	1.62	0.42
1:A2:1223:GLU:HB3	1:A1:598:VAL:HG22	1.54	0.42
1:A3:1223:GLU:HG3	1:A4:648:TYR:N	2.33	0.42
5:E1:67:ASP:N	5:E1:68:PRO:CD	2.82	0.42
9:I1:1049:LEU:HD23	14:N1:294:SER:HA	2.01	0.42
9:I1:1326:GLU:OE1	10:J1:255:LEU:HD22	2.19	0.42
9:I2:968:PRO:CG	14:N3:300:ALA:CB	2.95	0.42
9:I2:978:LYS:HE2	15:O3:178:ASP:HA	1.60	0.42
9:I2:1030:ARG:NH2	13:M3:607:SER:C	2.73	0.42
9:I2:1051:LYS:HB3	14:N3:289:PHE:CD1	2.54	0.42
9:I2:1326:GLU:OE1	10:J2:255:LEU:HD22	2.19	0.42
15:O4:98:TYR:HD2	15:O4:125:ALA:HB2	1.83	0.42
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CZ	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:331:LEU:HD12	17:Q1:351:ILE:CG2	2.50	0.42
17:Q1:417:LEU:HD22	17:Q1:426:ILE:CG2	2.27	0.42
17:Q1:517:PRO:HA	17:Q1:520:ILE:CG2	2.39	0.42
17:Q1:670:THR:CB	17:Q1:743:LEU:HD13	2.49	0.42
17:Q1:828:THR:OG1	17:Q1:868:HIS:HB2	2.19	0.42
17:Q1:852:ILE:CG2	17:Q1:853:LYS:N	2.82	0.42
17:Q1:929:LEU:CD2	18:R1:691:THR:CB	2.88	0.42
17:Q2:331:LEU:CD1	17:Q2:351:ILE:CG2	2.94	0.42
17:Q2:419:MET:HE1	17:Q2:465:LEU:HD11	2.00	0.42
17:Q2:615:GLU:HA	17:Q2:645:ILE:HG12	1.98	0.42
17:Q2:646:PHE:CE2	17:Q2:669:VAL:CG1	3.03	0.42
17:Q2:704:SER:O	17:Q2:710:ILE:HD12	2.19	0.42
17:Q2:827:THR:C	17:Q2:830:SER:HB2	2.40	0.42
17:Q2:999:LEU:CD1	17:Q2:1003:VAL:HG13	2.46	0.42
17:Q2:1065:VAL:O	17:Q2:1070:LEU:HD22	2.20	0.42
18:R1:359:ILE:HD13	18:R1:389:VAL:HG13	2.01	0.42
18:R1:452:LEU:CD2	18:R1:452:LEU:N	2.82	0.42
18:R1:514:VAL:CG1	18:R1:515:GLU:N	2.82	0.42
19:R2:77:LEU:HG	19:R2:125:TRP:CD2	2.54	0.42
19:R2:535:ARG:HD3	19:R2:583:GLU:OE1	2.19	0.42
19:R2:555:ILE:CG2	19:R2:556:GLY:N	2.82	0.42
20:S1:247:TYR:CE2	20:S1:260:LEU:HD13	2.54	0.42
20:S1:440:ARG:HB3	21:T1:285:LEU:HD22	2.02	0.42
21:T2:18:ASP:OD1	21:T2:18:ASP:N	2.46	0.42
23:V1:396:ASP:OD1	23:V1:401:LYS:HE3	2.20	0.42
23:V1:454:LEU:HD21	23:V1:503:VAL:HG21	2.01	0.42
25:X1:714:PHE:CE2	26:Y1:1316:GLU:CG	2.99	0.42
25:X1:808:ASP:OD2	26:Y1:1395:LEU:CD1	2.58	0.42
25:X2:681:SER:HA	27:Z2:444:THR:HB	1.40	0.42
26:Y1:1284:THR:O	26:Y1:1288:ILE:HG12	2.20	0.42
26:Y2:1332:LYS:HZ1	27:Z1:55:HIS:CD2	2.38	0.42
26:Y2:1366:LEU:CA	26:Y2:1383:ALA:C	2.83	0.42
27:Z1:55:HIS:HE1	27:Z1:98:SER:CB	2.13	0.42
27:Z1:284:PRO:CD	27:Z1:284:PRO:O	2.67	0.42
27:Z1:386:PHE:HB2	27:Z1:389:TRP:NE1	2.35	0.42
27:Z2:102:ASP:HB3	27:Z2:105:ILE:HD12	2.00	0.42
27:Z2:158:ASN:CB	27:Z2:161:GLU:CD	2.86	0.42
27:Z2:381:ILE:CD1	27:Z2:420:ILE:HD13	2.50	0.42
27:Z2:420:ILE:CD1	27:Z2:424:PRO:CD	2.95	0.42
27:Z2:437:LEU:HB2	27:Z2:448:GLN:NE2	2.35	0.42
27:Z2:522:GLU:HG2	27:Z2:523:ASN:C	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1228:TYR:HE1	1:A1:643:ALA:CA	2.33	0.42
1:A3:1084:ARG:CA	4:D3:1095:ARG:HD2	2.36	0.42
1:A4:623:SER:HA	4:D3:977:GLU:HB2	1.16	0.42
4:D2:1047:LEU:CD1	4:D2:1091:THR:HG22	2.49	0.42
4:D3:836:LEU:HA	4:D3:850:VAL:HG12	2.01	0.42
6:F1:153:LEU:HG	9:I1:1395:LEU:CD1	2.43	0.42
9:I1:918:SER:C	15:O1:193:ALA:HB3	2.39	0.42
9:I1:1051:LYS:CA	14:N1:293:LYS:NZ	2.83	0.42
9:I1:1051:LYS:C	9:I1:1052:LEU:HD12	2.40	0.42
9:I1:1302:ARG:O	9:I1:1306:LEU:HD13	2.19	0.42
9:I2:1104:LEU:HG	13:M3:611:LYS:HZ3	1.84	0.42
9:I2:1158:ALA:O	15:O3:266:GLN:CD	2.57	0.42
9:I2:1218:ASP:O	9:I2:1221:ASN:ND2	2.49	0.42
14:N2:429:GLU:OE2	14:N2:429:GLU:N	2.52	0.42
15:O3:156:ILE:HG22	15:O3:157:THR:N	2.34	0.42
17:Q1:178:ILE:CG2	17:Q1:179:ASN:N	2.83	0.42
17:Q1:316:ILE:HG13	17:Q1:331:LEU:CD2	2.50	0.42
17:Q1:515:ASN:C	17:Q1:518:PRO:HD2	2.39	0.42
17:Q1:567:PHE:CE2	17:Q1:571:VAL:HG13	2.54	0.42
17:Q1:790:HIS:O	17:Q1:793:CYS:HB2	2.19	0.42
17:Q1:815:VAL:HG23	17:Q1:816:GLN:N	2.33	0.42
17:Q1:823:GLN:O	17:Q1:824:ASN:HB3	2.19	0.42
17:Q1:1009:LEU:HB2	17:Q1:1014:SER:OG	2.18	0.42
17:Q1:1040:LEU:O	17:Q1:1044:ARG:HG3	2.19	0.42
17:Q2:567:PHE:CE2	17:Q2:571:VAL:HG13	2.54	0.42
17:Q2:1144:LYS:HD2	17:Q2:1146:TYR:CE1	2.54	0.42
18:R1:615:THR:CG2	18:R1:616:LEU:N	2.82	0.42
18:R1:688:LEU:HD12	18:R1:721:THR:HG21	2.02	0.42
19:R2:575:GLU:HG3	19:R2:641:SER:OG	2.17	0.42
19:R2:620:LEU:HD12	19:R2:670:LYS:CE	2.49	0.42
20:S2:247:TYR:CE2	20:S2:260:LEU:HD13	2.54	0.42
20:S2:452:TRP:CD1	20:S2:475:THR:HA	2.54	0.42
21:T1:35:ILE:HB	21:T1:47:ASP:HB2	2.00	0.42
21:T2:60:ASP:H	21:T2:70:LEU:CD1	2.33	0.42
23:V1:149:GLU:HG3	23:V1:186:ARG:NE	2.34	0.42
24:W1:111:GLN:HG3	24:W1:168:TYR:CG	2.55	0.42
25:X1:645:THR:HG23	27:Z1:535:PHE:CE2	2.55	0.42
25:X1:687:GLU:OE2	27:Z1:573:LYS:CD	2.55	0.42
25:X2:645:THR:HG23	27:Z2:535:PHE:CE2	2.55	0.42
26:Y1:1223:ALA:O	26:Y1:1227:VAL:HG23	2.19	0.42
26:Y1:1229:MET:HB3	26:Y1:1233:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1345:LEU:CG	26:Y2:1348:LYS:HE2	2.48	0.42
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:HD21	1.96	0.42
27:Z1:280:LYS:CD	27:Z1:340:ASP:OD1	2.68	0.42
27:Z1:294:LEU:HD11	27:Z1:325:ILE:CD1	2.43	0.42
27:Z1:329:LYS:CE	27:Z1:333:MET:SD	3.00	0.42
27:Z1:678:ASN:CG	27:Z1:678:ASN:C	2.71	0.42
27:Z2:10:LEU:HA	27:Z2:11:PRO:HD3	1.93	0.42
27:Z2:137:TYR:HB3	27:Z2:269:LYS:CG	2.45	0.42
27:Z2:194:LEU:O	27:Z2:207:ALA:HA	2.20	0.42
27:Z2:280:LYS:CD	27:Z2:340:ASP:OD1	2.67	0.42
27:Z2:393:LEU:O	27:Z2:397:ILE:HG13	2.19	0.42
27:Z2:420:ILE:HD13	27:Z2:424:PRO:HD3	2.01	0.42
6:F1:135:VAL:HB	9:I1:1336:MET:HB3	2.00	0.42
6:F2:1267:ARG:HH12	15:O4:263:GLN:N	2.18	0.42
9:I1:899:LEU:HD23	15:O1:201:HIS:ND1	2.34	0.42
9:I1:918:SER:HA	15:O1:193:ALA:C	2.38	0.42
9:I2:885:GLU:O	13:M3:594:LYS:CE	2.67	0.42
9:I2:1119:ARG:HH12	10:J2:240:GLY:HA3	1.84	0.42
14:N3:368:ASN:OD1	15:O3:210:ARG:NH2	2.52	0.42
15:O1:156:ILE:HG22	15:O1:157:THR:N	2.34	0.42
15:O3:75:ILE:N	15:O3:76:PRO:CD	2.83	0.42
17:Q1:76:TYR:CG	17:Q1:470:LYS:O	2.73	0.42
17:Q1:506:LYS:O	17:Q1:509:ALA:HB3	2.20	0.42
17:Q1:528:GLU:CB	17:Q1:579:ILE:CD1	2.94	0.42
17:Q1:633:THR:CG2	17:Q1:634:VAL:N	2.82	0.42
17:Q1:803:GLN:O	17:Q1:807:PHE:CD2	2.73	0.42
17:Q1:856:LYS:HB3	17:Q1:858:ASN:C	2.40	0.42
17:Q1:1140:VAL:CG2	17:Q1:1141:ALA:N	2.83	0.42
17:Q1:1144:LYS:HD2	17:Q1:1146:TYR:CE1	2.54	0.42
17:Q2:228:ILE:HG13	17:Q2:249:ASN:H	1.84	0.42
17:Q2:331:LEU:HD12	17:Q2:351:ILE:CG2	2.50	0.42
17:Q2:394:LYS:CG	17:Q2:395:PHE:N	2.82	0.42
17:Q2:417:LEU:HD22	17:Q2:426:ILE:CG2	2.27	0.42
17:Q2:516:LEU:CD1	17:Q2:573:LYS:HZ1	2.33	0.42
17:Q2:526:SER:CB	17:Q2:531:LEU:CD1	2.95	0.42
17:Q2:545:TYR:CD1	17:Q2:546:ILE:HG23	2.54	0.42
17:Q2:969:VAL:CG1	17:Q2:970:GLN:N	2.82	0.42
17:Q2:1029:LEU:HD23	17:Q2:1033:VAL:CG1	2.49	0.42
18:R1:353:ASP:O	18:R1:355:LEU:N	2.51	0.42
18:R1:452:LEU:HB2	18:R1:461:GLN:HE22	1.84	0.42
18:R1:684:ILE:CD1	18:R1:688:LEU:CD2	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:433:ALA:O	19:R2:435:PHE:N	2.44	0.42
19:R2:530:ILE:HG13	19:R2:549:PHE:HD2	1.72	0.42
19:R2:538:LEU:HG	19:R2:659:TYR:HE1	1.77	0.42
21:T1:63:HIS:HD2	21:T1:65:LYS:H	1.68	0.42
22:U1:131:ASP:O	22:U1:133:ILE:HG13	2.20	0.42
23:V1:168:ARG:HD3	23:V1:170:ASN:HB3	2.02	0.42
24:W1:508:LYS:O	24:W1:512:THR:HG23	2.19	0.42
25:X2:823:LYS:O	27:Z1:259:LEU:N	2.46	0.42
26:Y1:1298:TYR:HE2	27:Z1:591:GLN:HB2	1.85	0.42
26:Y2:1382:VAL:CA	26:Y2:1382:VAL:C	2.87	0.42
27:Z1:129:LYS:HZ1	27:Z1:185:LEU:HB2	0.55	0.42
27:Z1:155:ASP:HB2	27:Z1:161:GLU:HG3	2.02	0.42
27:Z1:331:LEU:CD1	27:Z1:347:SER:HB2	2.39	0.42
27:Z2:69:PHE:CA	27:Z2:84:ASN:CG	2.72	0.42
27:Z2:252:GLN:CB	27:Z2:335:MET:CG	2.54	0.42
27:Z2:386:PHE:HB2	27:Z2:389:TRP:NE1	2.35	0.42
1:A2:1226:LEU:HD21	1:A1:646:ILE:CA	2.49	0.42
4:D4:664:ASN:O	4:D4:667:ARG:NH2	2.50	0.42
9:I1:615:ILE:HD12	9:I1:615:ILE:N	2.35	0.42
16:P3:147:LEU:O	16:P3:151:LYS:N	2.52	0.42
17:Q1:133:ALA:HB1	17:Q1:168:LYS:NZ	2.35	0.42
17:Q1:181:ILE:HG21	17:Q1:183:ASN:ND2	2.34	0.42
17:Q1:274:PRO:HG3	17:Q1:342:GLU:O	2.20	0.42
17:Q1:351:ILE:CG2	17:Q1:352:TYR:N	2.82	0.42
17:Q1:382:ARG:O	17:Q1:508:ASN:O	2.38	0.42
17:Q1:570:PHE:CE1	17:Q1:574:ASN:ND2	2.88	0.42
17:Q1:695:GLU:HA	17:Q1:695:GLU:OE1	2.20	0.42
17:Q1:811:LEU:CD2	17:Q1:814:LEU:CD2	2.97	0.42
17:Q1:1065:VAL:O	17:Q1:1070:LEU:HD22	2.20	0.42
17:Q1:1071:PRO:HB3	17:Q1:1155:VAL:CG2	2.44	0.42
17:Q2:228:ILE:CG1	17:Q2:249:ASN:N	2.82	0.42
17:Q2:380:THR:O	17:Q2:380:THR:HG23	2.20	0.42
17:Q2:527:ILE:HG12	17:Q2:530:ASP:CB	2.50	0.42
17:Q2:648:GLN:HA	17:Q2:651:ASN:HD22	1.85	0.42
17:Q2:801:CYS:SG	17:Q2:814:LEU:CD1	3.07	0.42
17:Q2:856:LYS:CB	17:Q2:859:ASP:CA	2.97	0.42
17:Q2:988:VAL:CG1	17:Q2:989:GLU:N	2.83	0.42
18:R1:453:GLU:CG	18:R1:454:ASP:N	2.81	0.42
18:R1:527:VAL:HG12	18:R1:557:GLU:HG3	2.01	0.42
19:R2:634:PHE:CZ	19:R2:635:LEU:CG	2.95	0.42
20:S1:155:SER:HB3	20:S1:159:MET:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:373:LEU:HB3	20:S1:376:LEU:HD12	2.02	0.42
20:S1:392:TYR:O	20:S1:394:GLN:N	2.44	0.42
20:S2:153:LYS:HA	21:T2:261:SER:HB2	2.01	0.42
20:S2:531:LEU:O	20:S2:532:LYS:HG2	2.19	0.42
23:V1:243:GLN:O	23:V1:247:LYS:HG3	2.19	0.42
23:V1:269:ASP:OD1	23:V1:269:ASP:N	2.53	0.42
23:V2:243:GLN:O	23:V2:247:LYS:HG3	2.19	0.42
23:V2:396:ASP:OD1	23:V2:401:LYS:HE3	2.20	0.42
24:W2:295:ASN:ND2	24:W2:329:TRP:O	2.52	0.42
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:H	2.29	0.42
26:Y1:1429:LYS:HD3	26:Y1:1430:ASP:CG	2.13	0.42
27:Z1:69:PHE:CD1	27:Z1:84:ASN:ND2	2.86	0.42
27:Z1:194:LEU:O	27:Z1:207:ALA:HA	2.20	0.42
27:Z1:208:PHE:CE2	27:Z1:279:ALA:HB3	2.44	0.42
27:Z1:218:LEU:O	27:Z1:263:TRP:HZ2	2.03	0.42
27:Z2:120:GLU:C	27:Z2:124:LYS:HE2	2.40	0.42
27:Z2:131:LEU:HB3	27:Z2:187:PHE:CE2	2.55	0.42
27:Z2:223:LEU:HD12	27:Z2:263:TRP:CZ2	2.54	0.42
27:Z2:284:PRO:CD	27:Z2:284:PRO:O	2.67	0.42
27:Z2:703:GLN:O	27:Z2:707:GLU:CG	2.60	0.42
1:A2:1204:TRP:CE3	1:A1:607:ARG:NH2	2.88	0.42
1:A3:879:LEU:HD21	1:A3:908:LEU:HD12	2.01	0.42
4:D3:1098:LEU:HB3	4:D3:1099:PRO:CD	2.50	0.42
6:F2:132:THR:CG2	9:I2:1334:PRO:CA	2.45	0.42
6:F2:689:ARG:O	6:F2:699:ARG:N	2.40	0.42
7:G2:253:SER:CB	15:O4:253:LEU:N	2.82	0.42
9:I1:906:GLY:CA	13:M1:572:GLU:CD	2.52	0.42
9:I2:535:ASP:OD1	9:I2:536:GLU:N	2.53	0.42
9:I2:922:ASP:HB2	16:P3:157:GLU:HB2	2.02	0.42
14:N1:429:GLU:OE2	14:N1:429:GLU:N	2.52	0.42
15:O1:75:ILE:N	15:O1:76:PRO:CD	2.83	0.42
17:Q1:426:ILE:HG12	17:Q1:445:ASP:O	2.19	0.42
17:Q1:479:VAL:HG12	17:Q1:480:LYS:N	2.35	0.42
17:Q1:499:ASP:O	17:Q1:503:TYR:CD2	2.73	0.42
17:Q1:715:LEU:C	17:Q1:717:CYS:H	2.22	0.42
17:Q1:824:ASN:OD1	17:Q1:832:TYR:HB2	2.19	0.42
17:Q1:980:ILE:HG23	17:Q1:981:ARG:N	2.34	0.42
17:Q1:1016:PHE:CE1	17:Q1:1065:VAL:HG13	2.53	0.42
17:Q1:1065:VAL:CA	17:Q1:1070:LEU:CD2	2.95	0.42
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CE2	2.88	0.42
17:Q2:134:VAL:CG1	17:Q2:135:ALA:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:298:SER:O	17:Q2:300:THR:HA	2.20	0.42
17:Q2:337:HIS:ND1	17:Q2:401:ILE:HB	2.35	0.42
17:Q2:479:VAL:HG12	17:Q2:480:LYS:N	2.34	0.42
17:Q2:499:ASP:O	17:Q2:503:TYR:CD2	2.73	0.42
17:Q2:611:ASN:ND2	17:Q2:649:PHE:CG	2.88	0.42
17:Q2:644:VAL:CG1	17:Q2:645:ILE:N	2.82	0.42
17:Q2:669:VAL:CG2	17:Q2:670:THR:N	2.83	0.42
17:Q2:700:GLU:CB	17:Q2:758:ILE:HG23	2.50	0.42
17:Q2:803:GLN:O	17:Q2:807:PHE:CD2	2.73	0.42
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HD3	2.49	0.42
18:R1:533:LEU:HD21	18:R1:537:PHE:CE2	2.54	0.42
18:R1:628:PHE:CZ	18:R1:693:LEU:HD13	2.55	0.42
19:R2:104:LEU:HG	19:R2:224:ASP:HB3	2.02	0.42
19:R2:538:LEU:CD1	19:R2:546:LEU:CD1	2.97	0.42
19:R2:617:ILE:CG2	19:R2:618:GLU:N	2.83	0.42
19:R2:647:ALA:O	19:R2:651:ILE:HG23	2.20	0.42
19:R2:677:LEU:CD2	19:R2:677:LEU:H	2.32	0.42
22:U1:76:SER:HB3	22:U1:78:ASP:OD1	2.19	0.42
22:U1:248:LYS:HG2	25:X1:805:ARG:O	2.19	0.42
22:U1:340:LYS:CE	27:Z1:642:ASN:HD21	2.26	0.42
23:V2:403:HIS:O	23:V2:405:ILE:HG23	2.20	0.42
24:W1:59:CYS:HB2	24:W1:464:THR:OG1	2.19	0.42
25:X1:665:TRP:CH2	27:Z1:560:LEU:HD11	2.41	0.42
25:X1:744:ALA:O	25:X1:747:THR:HB	2.20	0.42
25:X2:765:LEU:HD22	27:Z2:652:GLN:CD	2.13	0.42
26:Y2:1272:ILE:O	26:Y2:1276:ILE:CG1	2.66	0.42
26:Y2:1335:SER:C	26:Y2:1339:PHE:CD1	2.92	0.42
27:Z1:10:LEU:HA	27:Z1:11:PRO:HD3	1.93	0.42
27:Z1:212:LEU:HA	27:Z1:213:PRO:CD	2.49	0.42
27:Z1:288:ASN:HB3	27:Z1:349:VAL:HA	2.02	0.42
27:Z1:376:ILE:HG12	27:Z1:381:ILE:HG12	2.02	0.42
27:Z1:403:ASN:N	27:Z2:262:ASN:CB	2.78	0.42
27:Z1:523:ASN:CA	27:Z1:523:ASN:N	2.52	0.42
27:Z2:25:TYR:OH	27:Z2:69:PHE:O	2.37	0.42
27:Z2:119:GLU:CB	27:Z2:120:GLU:N	2.82	0.42
27:Z2:208:PHE:HD1	27:Z2:211:PHE:N	2.17	0.42
1:A1:1242:THR:HG22	1:A1:1245:ASP:H	1.85	0.42
1:A2:1230:TYR:OH	1:A1:590:SER:N	2.38	0.42
1:A3:1400:SER:HB3	4:D3:869:THR:O	2.18	0.42
1:A4:879:LEU:HD21	1:A4:908:LEU:HD12	2.01	0.42
4:D2:522:VAL:HG21	4:D2:569:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:836:LEU:HA	4:D4:850:VAL:HG12	2.01	0.42
6:F1:138:ILE:HA	9:I1:1391:THR:H	1.81	0.42
6:F1:215:ASP:OD1	6:F1:218:ARG:NH2	2.52	0.42
6:F1:1052:CYS:C	9:I1:1388:GLU:OE2	2.57	0.42
6:F2:1776:THR:HG23	6:F2:1776:THR:O	2.20	0.42
9:I1:909:ARG:N	15:O1:205:ARG:HD3	2.05	0.42
9:I1:912:VAL:HA	13:M1:542:ASP:HA	2.01	0.42
9:I2:922:ASP:O	15:O3:186:PHE:C	2.57	0.42
9:I2:977:ASN:CB	15:O3:174:LEU:HD22	2.49	0.42
17:Q1:264:ASN:HB3	17:Q1:289:LYS:CD	2.44	0.42
17:Q1:276:LEU:CB	17:Q1:280:THR:CG2	2.95	0.42
17:Q1:298:SER:O	17:Q1:300:THR:HA	2.20	0.42
17:Q1:443:TRP:CD1	17:Q1:504:PHE:HB2	2.55	0.42
17:Q1:527:ILE:HG12	17:Q1:530:ASP:CB	2.49	0.42
17:Q1:795:VAL:CG1	17:Q1:796:ASN:N	2.82	0.42
17:Q1:969:VAL:CG1	17:Q1:970:GLN:N	2.83	0.42
17:Q2:178:ILE:CG2	17:Q2:179:ASN:N	2.83	0.42
17:Q2:426:ILE:HG12	17:Q2:445:ASP:O	2.19	0.42
17:Q2:467:VAL:HG13	17:Q2:467:VAL:O	2.19	0.42
17:Q2:490:GLU:HB2	17:Q2:493:PHE:HD1	1.84	0.42
17:Q2:575:PHE:O	17:Q2:575:PHE:CD2	2.73	0.42
17:Q2:695:GLU:HA	17:Q2:695:GLU:OE1	2.20	0.42
17:Q2:791:VAL:CG1	17:Q2:792:LEU:N	2.82	0.42
17:Q2:857:LEU:HD12	17:Q2:916:SER:OG	2.19	0.42
17:Q2:1029:LEU:N	17:Q2:1029:LEU:CD1	2.82	0.42
18:R1:104:LEU:HG	18:R1:224:ASP:HB3	2.02	0.42
18:R1:293:ILE:HD11	18:R1:327:VAL:CG2	2.49	0.42
18:R1:527:VAL:HB	18:R1:580:PHE:CG	2.55	0.42
18:R1:664:LEU:CD1	18:R1:690:PHE:CE1	2.98	0.42
19:R2:343:ILE:HD13	19:R2:344:ARG:H	1.85	0.42
19:R2:628:PHE:CZ	19:R2:693:LEU:HD13	2.55	0.42
20:S1:208:TYR:CE2	20:S1:505:GLU:HG3	2.55	0.42
24:W2:287:LEU:O	24:W2:300:MET:HA	2.20	0.42
26:Y1:1269:LEU:O	26:Y1:1273:GLN:HG3	2.20	0.42
26:Y1:1345:LEU:CG	26:Y1:1348:LYS:HE2	2.48	0.42
26:Y1:1345:LEU:C	26:Y1:1348:LYS:HG2	2.39	0.42
26:Y1:1402:LEU:O	26:Y1:1406:VAL:HG23	2.20	0.42
26:Y2:1345:LEU:C	26:Y2:1348:LYS:HG2	2.39	0.42
27:Z1:7:LEU:HD13	27:Z1:447:PHE:CD2	2.55	0.42
27:Z1:287:ILE:CD1	27:Z1:327:LEU:HD13	2.50	0.42
27:Z1:429:ILE:CG2	27:Z1:431:TRP:CE2	2.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:539:ILE:O	27:Z1:543:GLN:HG2	2.20	0.42
27:Z2:128:LYS:CE	27:Z2:147:GLU:HB3	2.47	0.42
27:Z2:305:ILE:CG2	27:Z2:386:PHE:CZ	2.89	0.42
27:Z2:319:PHE:CE2	27:Z2:325:ILE:HG13	2.55	0.42
27:Z2:380:ILE:CG2	27:Z2:382:GLN:CG	2.98	0.42
27:Z2:422:ARG:HH21	27:Z2:442:ASN:ND2	2.13	0.42
1:A2:1203:TYR:CB	1:A1:599:ARG:NH2	2.81	0.41
1:A4:780:GLU:HG3	1:A4:822:ILE:HG23	2.02	0.41
6:F1:1264:ARG:O	15:O2:251:ILE:HG22	2.19	0.41
6:F2:924:GLU:OE2	6:F2:988:ARG:NE	2.53	0.41
9:I1:966:TRP:CA	15:O1:176:ARG:O	2.68	0.41
9:I2:271:ASP:OD1	9:I2:272:LYS:N	2.49	0.41
9:I2:891:LEU:CD2	13:M3:586:ASP:O	2.62	0.41
9:I2:963:LEU:HD12	16:P3:152:LYS:H	1.58	0.41
9:I2:965:ALA:O	15:O3:177:HIS:NE2	2.53	0.41
9:I2:1182:GLN:NE2	10:J2:245:GLU:CB	2.80	0.41
17:Q1:110:ILE:HG22	17:Q1:110:ILE:O	2.19	0.41
17:Q1:498:VAL:CG1	17:Q1:499:ASP:N	2.82	0.41
17:Q1:648:GLN:HA	17:Q1:651:ASN:HD22	1.85	0.41
17:Q1:705:LYS:CA	17:Q1:710:ILE:HD12	2.40	0.41
17:Q1:874:PHE:CE1	17:Q1:889:GLN:CG	2.96	0.41
17:Q2:164:LEU:HD21	17:Q2:178:ILE:HD13	2.02	0.41
17:Q2:616:LYS:HZ3	17:Q2:634:VAL:HG11	1.85	0.41
17:Q2:678:TYR:CE2	17:Q2:682:LEU:HD12	2.55	0.41
18:R1:23:LYS:HD2	18:R1:434:THR:HG21	2.01	0.41
19:R2:538:LEU:HA	19:R2:546:LEU:HD11	2.02	0.41
19:R2:543:VAL:CG2	19:R2:544:LYS:N	2.83	0.41
19:R2:666:GLU:O	19:R2:669:LYS:HB3	2.20	0.41
19:R2:688:LEU:HD12	19:R2:721:THR:HG21	2.02	0.41
21:T1:222:LEU:O	21:T1:233:ILE:HA	2.20	0.41
21:T1:223:ALA:HB2	21:T1:262:TRP:CZ2	2.55	0.41
21:T2:57:TRP:HE1	21:T2:101:SER:HG	1.64	0.41
22:U2:131:ASP:O	22:U2:133:ILE:HG13	2.20	0.41
23:V2:159:ILE:HD13	23:V2:176:GLU:HA	2.01	0.41
24:W1:446:LEU:HD23	24:W1:446:LEU:HA	1.88	0.41
24:W2:446:LEU:HD23	24:W2:446:LEU:HA	1.87	0.41
25:X2:817:GLN:HB3	27:Z2:708:PHE:CE2	2.55	0.41
27:Z1:78:ASP:O	27:Z1:78:ASP:OD1	2.37	0.41
27:Z1:205:ILE:O	27:Z1:206:PHE:CD1	2.62	0.41
27:Z1:363:LEU:HG	27:Z1:373:LEU:CD1	2.40	0.41
27:Z1:366:LEU:CD2	27:Z1:374:TYR:CE2	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:381:ILE:CD1	27:Z1:420:ILE:HD13	2.50	0.41
27:Z2:32:GLY:N	27:Z2:368:GLU:OE2	2.53	0.41
27:Z2:138:ARG:HG3	27:Z2:138:ARG:NH1	2.34	0.41
27:Z2:539:ILE:O	27:Z2:543:GLN:HG2	2.19	0.41
1:A3:780:GLU:HG3	1:A3:822:ILE:HG23	2.01	0.41
1:A3:1083:SER:OG	4:D3:1096:TYR:HD2	1.98	0.41
4:D1:673:LEU:CG	1:A1:1094:ILE:CG2	2.98	0.41
4:D4:1098:LEU:HB3	4:D4:1099:PRO:CD	2.50	0.41
6:F1:138:ILE:CA	9:I1:1391:THR:N	2.74	0.41
7:G1:248:VAL:N	15:O2:247:TRP:CZ2	2.88	0.41
7:G2:253:SER:N	15:O4:251:ILE:CB	2.76	0.41
9:I1:659:LYS:HE2	9:I1:664:LEU:HD21	2.02	0.41
9:I1:965:ALA:HB3	15:O1:182:THR:C	2.41	0.41
9:I1:1049:LEU:HB2	15:O1:174:LEU:HG	1.86	0.41
9:I2:890:TYR:O	13:M3:587:GLU:O	2.35	0.41
17:Q1:678:TYR:CE2	17:Q1:682:LEU:HD12	2.55	0.41
17:Q1:719:ASN:OD1	17:Q1:723:PHE:CE1	2.73	0.41
17:Q1:726:THR:OG1	17:Q1:792:LEU:HD23	2.19	0.41
17:Q1:820:THR:CG2	17:Q1:821:LEU:N	2.83	0.41
17:Q1:1097:GLU:CG	17:Q1:1098:THR:N	2.83	0.41
17:Q1:1122:THR:CG2	17:Q1:1123:LEU:N	2.82	0.41
17:Q2:246:LYS:HD3	17:Q2:247:LEU:O	2.21	0.41
18:R1:508:MET:O	18:R1:512:TYR:CD2	2.73	0.41
18:R1:596:GLU:HG2	18:R1:620:LEU:CA	2.51	0.41
18:R1:678:LEU:CG	18:R1:679:LYS:H	2.32	0.41
18:R1:706:GLN:H	18:R1:710:LYS:HG3	1.85	0.41
19:R2:359:ILE:HD13	19:R2:389:VAL:HG13	2.01	0.41
19:R2:664:LEU:CB	19:R2:690:PHE:CE1	2.95	0.41
22:U2:189:GLU:HA	22:U2:213:SER:O	2.20	0.41
22:U2:303:HIS:HA	22:U2:325:ASP:OD2	2.19	0.41
23:V1:57:PRO:HB3	23:V1:91:TYR:OH	2.19	0.41
23:V1:480:GLU:O	23:V1:483:PRO:HD2	2.21	0.41
23:V2:78:ASN:HD21	23:V2:95:ILE:HG13	1.85	0.41
24:W2:53:GLY:HA3	24:W2:71:HIS:HB3	2.01	0.41
25:X1:645:THR:CA	27:Z1:535:PHE:CE2	3.02	0.41
25:X2:717:LYS:HB3	26:Y2:1320:LEU:CD1	2.28	0.41
25:X2:744:ALA:O	25:X2:747:THR:HB	2.20	0.41
26:Y2:1305:GLN:CD	27:Z2:599:MET:CG	2.87	0.41
26:Y2:1368:LEU:CB	26:Y2:1383:ALA:HB2	2.50	0.41
27:Z1:131:LEU:HB3	27:Z1:187:PHE:CE2	2.55	0.41
27:Z1:148:ASP:HB2	27:Z1:150:THR:HG23	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:182:ILE:HD12	27:Z1:198:ASN:CG	2.41	0.41
27:Z1:282:GLN:HG3	27:Z1:342:TYR:HD2	1.84	0.41
27:Z2:189:LYS:C	27:Z2:311:GLN:CG	2.79	0.41
27:Z2:282:GLN:HG3	27:Z2:342:TYR:HD2	1.85	0.41
1:A1:879:LEU:HD21	1:A1:908:LEU:HD12	2.01	0.41
1:A2:879:LEU:HD21	1:A2:908:LEU:HD12	2.01	0.41
1:A2:1242:THR:HG22	1:A2:1245:ASP:H	1.85	0.41
4:D2:1056:ARG:HA	4:D2:1056:ARG:HD2	1.87	0.41
4:D2:1098:LEU:HB3	4:D2:1099:PRO:CD	2.50	0.41
4:D3:1091:THR:OG1	4:D3:1092:SER:N	2.53	0.41
4:D4:977:GLU:O	4:D4:981:VAL:HG23	2.21	0.41
4:D4:1091:THR:OG1	4:D4:1092:SER:N	2.54	0.41
6:F1:1544:ALA:N	6:F1:1545:PRO:CD	2.83	0.41
6:F1:1836:GLU:O	6:F1:1839:VAL:HG12	2.20	0.41
6:F2:160:SER:CA	9:I2:1197:ASN:O	2.69	0.41
6:F2:1836:GLU:O	6:F2:1839:VAL:HG12	2.20	0.41
9:I1:767:ASP:HB2	13:M1:546:ARG:HH12	1.85	0.41
9:I1:913:ALA:H	15:O1:198:ARG:HD3	1.26	0.41
9:I2:615:ILE:HD12	9:I2:615:ILE:N	2.35	0.41
9:I2:1030:ARG:HB2	13:M3:611:LYS:O	2.20	0.41
9:I2:1048:GLU:C	16:P3:141:ALA:CA	2.75	0.41
9:I2:1160:ILE:HD11	15:O3:263:GLN:HG2	2.02	0.41
9:I2:1255:HIS:N	14:N3:408:MET:HA	2.34	0.41
16:P4:147:LEU:O	16:P4:151:LYS:N	2.52	0.41
17:Q1:200:ILE:CD1	17:Q1:200:ILE:N	2.83	0.41
17:Q1:228:ILE:CG1	17:Q1:249:ASN:N	2.83	0.41
17:Q1:246:LYS:HD3	17:Q1:247:LEU:O	2.21	0.41
17:Q1:611:ASN:ND2	17:Q1:649:PHE:CG	2.88	0.41
17:Q1:669:VAL:CG2	17:Q1:670:THR:N	2.83	0.41
17:Q1:743:LEU:CD2	17:Q1:747:LYS:HG3	2.51	0.41
17:Q1:827:THR:C	17:Q1:830:SER:HB2	2.40	0.41
17:Q1:1090:LEU:HD13	17:Q1:1110:ARG:CG	2.50	0.41
17:Q2:200:ILE:CD1	17:Q2:200:ILE:N	2.83	0.41
17:Q2:441:ARG:HH21	17:Q2:444:GLU:HB2	1.84	0.41
18:R1:533:LEU:HD23	18:R1:549:PHE:CD2	2.56	0.41
18:R1:579:GLN:HE22	18:R1:637:ASP:HB3	1.86	0.41
18:R1:668:HIS:NE2	18:R1:717:LEU:HB3	2.35	0.41
18:R1:714:TYR:CD1	18:R1:714:TYR:C	2.94	0.41
20:S2:345:SER:HB3	20:S2:371:PHE:HE2	1.84	0.41
20:S2:440:ARG:HB3	21:T2:285:LEU:HD22	2.02	0.41
22:U1:192:ILE:HG22	22:U1:207:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:244:LYS:HB3	27:Z1:657:TYR:CD2	2.54	0.41
23:V1:78:ASN:HD21	23:V1:95:ILE:HG13	1.85	0.41
23:V1:95:ILE:HA	23:V1:96:PRO:HD3	1.90	0.41
23:V1:403:HIS:O	23:V1:405:ILE:HG23	2.20	0.41
24:W1:167:PHE:O	24:W1:174:SER:HB2	2.20	0.41
24:W1:287:LEU:O	24:W1:300:MET:HA	2.20	0.41
24:W2:180:ASP:HA	24:W2:220:TYR:CD1	2.55	0.41
25:X2:662:ILE:CD1	27:Z1:541:LYS:NZ	2.67	0.41
25:X2:700:ILE:CG1	26:Y2:1298:TYR:CD1	2.85	0.41
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:HG	1.97	0.41
26:Y2:1334:LEU:HG	27:Z1:109:PHE:HB2	1.37	0.41
27:Z1:208:PHE:HD1	27:Z1:211:PHE:N	2.17	0.41
27:Z1:294:LEU:HD12	27:Z1:325:ILE:CD1	2.47	0.41
27:Z2:208:PHE:CE2	27:Z2:279:ALA:HB3	2.44	0.41
27:Z2:592:LEU:HD23	27:Z2:595:GLN:OE1	2.21	0.41
1:A3:1221:ILE:HD13	1:A4:596:ARG:HG3	1.45	0.41
6:F2:138:ILE:C	9:I2:1391:THR:HG21	2.40	0.41
6:F2:701:GLU:OE2	6:F2:701:GLU:N	2.53	0.41
9:I1:908:ARG:HA	15:O1:209:LEU:HD11	2.03	0.41
9:I1:1371:LEU:O	9:I1:1371:LEU:HD23	2.20	0.41
9:I2:659:LYS:HE2	9:I2:664:LEU:HD21	2.02	0.41
9:I2:1015:TYR:OH	9:I2:1089:TYR:O	2.32	0.41
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CE2	2.88	0.41
17:Q1:440:ARG:CD	17:Q1:514:PHE:CE2	2.95	0.41
17:Q1:575:PHE:O	17:Q1:575:PHE:CD2	2.73	0.41
17:Q1:616:LYS:HB2	17:Q1:630:THR:HG21	1.99	0.41
17:Q1:673:ILE:CG2	17:Q1:674:ASN:N	2.83	0.41
17:Q1:863:ARG:HH11	17:Q1:863:ARG:HD2	1.69	0.41
17:Q1:982:GLU:CB	17:Q1:1104:ILE:HD11	2.36	0.41
17:Q2:274:PRO:HG3	17:Q2:342:GLU:O	2.20	0.41
17:Q2:275:ILE:HD11	17:Q2:281:ARG:HH21	1.85	0.41
17:Q2:506:LYS:O	17:Q2:509:ALA:HB3	2.20	0.41
17:Q2:589:GLU:HG2	17:Q2:688:THR:CG2	2.50	0.41
17:Q2:617:THR:CG2	17:Q2:618:LEU:N	2.82	0.41
17:Q2:633:THR:CG2	17:Q2:634:VAL:N	2.82	0.41
17:Q2:743:LEU:CD2	17:Q2:747:LYS:HG3	2.51	0.41
17:Q2:748:ILE:CG2	17:Q2:749:LEU:N	2.83	0.41
17:Q2:829:VAL:CG1	17:Q2:830:SER:N	2.82	0.41
18:R1:468:LEU:HB3	18:R1:470:LEU:HG	2.03	0.41
18:R1:520:GLY:O	18:R1:523:TYR:CD2	2.73	0.41
18:R1:531:ILE:HG13	18:R1:532:ALA:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:508:MET:O	19:R2:512:TYR:CD2	2.73	0.41
19:R2:531:ILE:CG2	19:R2:580:PHE:CD1	3.03	0.41
19:R2:591:ILE:CG2	19:R2:592:LYS:N	2.84	0.41
19:R2:668:HIS:NE2	19:R2:717:LEU:HB3	2.35	0.41
20:S2:155:SER:HB3	20:S2:159:MET:H	1.85	0.41
20:S2:208:TYR:CE2	20:S2:505:GLU:HG3	2.54	0.41
21:T1:191:ALA:C	21:T1:193:THR:H	2.24	0.41
21:T2:191:ALA:C	21:T2:193:THR:H	2.23	0.41
22:U2:192:ILE:HG22	22:U2:207:LYS:HG2	2.02	0.41
22:U2:346:THR:C	23:V2:51:MET:HB3	2.41	0.41
23:V1:352:THR:OG1	23:V1:355:GLU:HG3	2.21	0.41
25:X2:800:HIS:CD2	27:Z2:691:SER:HA	2.56	0.41
26:Y1:1211:LEU:HD21	26:Y1:1214:ILE:CD1	2.33	0.41
26:Y2:1284:THR:O	26:Y2:1288:ILE:HG12	2.20	0.41
27:Z1:68:THR:C	27:Z1:84:ASN:HD21	2.22	0.41
27:Z1:249:VAL:HA	27:Z1:252:GLN:CG	2.50	0.41
27:Z1:287:ILE:CD1	27:Z1:348:LEU:HD13	2.40	0.41
27:Z2:16:SER:N	27:Z2:16:SER:C	2.69	0.41
27:Z2:69:PHE:CE1	27:Z2:84:ASN:HB2	2.55	0.41
27:Z2:288:ASN:HB3	27:Z2:349:VAL:HA	2.02	0.41
1:A2:1204:TRP:NE1	1:A1:598:VAL:C	2.74	0.41
1:A2:1224:PRO:CA	1:A1:598:VAL:CG2	2.78	0.41
1:A3:1180:ARG:NH1	6:F2:795:GLU:CD	2.73	0.41
4:D1:820:HIS:HB3	4:D1:866:PHE:CE1	2.56	0.41
4:D1:1098:LEU:HB3	4:D1:1099:PRO:CD	2.50	0.41
4:D2:1001:TRP:HE1	4:D2:1056:ARG:HG3	1.85	0.41
6:F1:179:GLU:CD	9:I1:1207:PRO:HB3	2.39	0.41
7:G2:252:LEU:CA	15:O4:251:ILE:HB	2.50	0.41
9:I1:130:LYS:NZ	9:I1:237:GLU:OE1	2.45	0.41
9:I1:535:ASP:OD1	9:I1:536:GLU:N	2.53	0.41
9:I1:893:LEU:CD1	13:M1:587:GLU:CD	2.89	0.41
9:I1:908:ARG:HD3	13:M1:551:LEU:HB3	2.03	0.41
9:I1:978:LYS:CE	15:O1:181:HIS:CA	2.98	0.41
9:I1:1359:ASP:OD2	15:O1:264:ILE:HD13	2.13	0.41
9:I2:961:ARG:CD	16:P3:156:GLY:N	2.81	0.41
9:I2:1102:GLN:O	15:O3:275:LEU:CB	2.68	0.41
9:I2:1103:LEU:O	13:M3:615:PRO:CG	2.68	0.41
9:I2:1305:LEU:CD2	15:O3:264:ILE:HD11	2.44	0.41
17:Q1:164:LEU:HD21	17:Q1:178:ILE:HD13	2.02	0.41
17:Q1:378:PHE:HE1	17:Q1:435:SER:HG	1.67	0.41
17:Q1:382:ARG:NH1	17:Q1:513:ASP:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:532:LYS:HB3	17:Q1:579:ILE:HG22	2.03	0.41
17:Q1:538:ILE:CG2	17:Q1:539:PHE:N	2.82	0.41
17:Q1:718:ILE:H	17:Q1:718:ILE:CD1	2.34	0.41
17:Q1:887:TRP:HA	17:Q1:890:GLN:HG2	2.01	0.41
17:Q1:1029:LEU:N	17:Q1:1029:LEU:CD1	2.83	0.41
17:Q1:1131:ILE:CG2	17:Q1:1132:LYS:N	2.83	0.41
17:Q2:529:HIS:CA	17:Q2:532:LYS:HE2	2.50	0.41
17:Q2:616:LYS:HB2	17:Q2:630:THR:HG21	1.99	0.41
17:Q2:673:ILE:CG2	17:Q2:674:ASN:N	2.83	0.41
17:Q2:718:ILE:N	17:Q2:718:ILE:CD1	2.83	0.41
17:Q2:805:ALA:CB	17:Q2:815:VAL:CG1	2.93	0.41
18:R1:433:ALA:O	18:R1:435:PHE:N	2.44	0.41
19:R2:520:GLY:O	19:R2:523:TYR:CD2	2.73	0.41
19:R2:654:GLU:O	19:R2:658:LEU:HD13	2.20	0.41
20:S1:216:LEU:O	20:S1:217:LEU:HD23	2.19	0.41
20:S2:162:THR:HG22	20:S2:163:LYS:N	2.35	0.41
20:S2:375:GLU:C	20:S2:377:GLU:H	2.24	0.41
20:S2:513:MET:HA	20:S2:541:ALA:HB1	2.02	0.41
21:T2:222:LEU:O	21:T2:233:ILE:HA	2.19	0.41
22:U1:16:VAL:HG12	22:U1:63:TRP:CD1	2.55	0.41
22:U1:175:PRO:HD3	22:U1:220:TRP:HB3	2.02	0.41
22:U1:297:LEU:HA	27:Z1:654:ASP:CG	2.27	0.41
22:U2:16:VAL:HG12	22:U2:63:TRP:CD1	2.55	0.41
23:V1:65:MET:HA	23:V1:66:PRO:HD3	1.79	0.41
23:V2:291:LEU:HD13	23:V2:310:VAL:HG22	2.02	0.41
25:X2:685:MET:HG2	27:Z2:13:PHE:CZ	2.55	0.41
25:X2:699:TYR:CE1	27:Z2:49:LEU:N	2.60	0.41
25:X2:714:PHE:CE1	27:Z2:609:LEU:HD21	2.47	0.41
26:Y1:1302:ASP:O	26:Y1:1306:ILE:CG1	2.44	0.41
26:Y2:1295:VAL:N	27:Z2:588:TRP:CZ3	2.73	0.41
26:Y2:1314:LYS:O	26:Y2:1318:LEU:CG	2.65	0.41
26:Y2:1402:LEU:O	26:Y2:1406:VAL:HG23	2.20	0.41
27:Z1:32:GLY:N	27:Z1:368:GLU:OE2	2.53	0.41
27:Z1:69:PHE:CE1	27:Z1:84:ASN:HB2	2.55	0.41
27:Z1:125:SER:OG	27:Z1:146:LYS:CD	2.69	0.41
27:Z1:147:GLU:O	27:Z1:149:ASP:N	2.53	0.41
27:Z1:380:ILE:CG2	27:Z1:382:GLN:CG	2.98	0.41
27:Z1:541:LYS:HE3	27:Z2:552:ARG:HB2	1.98	0.41
27:Z1:642:ASN:N	27:Z1:645:VAL:HG23	2.32	0.41
27:Z2:31:ASN:HA	27:Z2:368:GLU:CD	2.23	0.41
27:Z2:213:PRO:CG	27:Z2:213:PRO:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:263:TRP:CA	27:Z2:270:VAL:HG22	2.39	0.41
27:Z2:379:ASN:OD1	27:Z2:420:ILE:O	2.37	0.41
1:A2:1204:TRP:N	1:A1:599:ARG:HH21	2.18	0.41
1:A2:1333:ARG:HH11	4:D1:1037:GLN:HB3	1.85	0.41
4:D1:1098:LEU:HB3	4:D1:1099:PRO:HD2	2.03	0.41
4:D2:977:GLU:O	4:D2:981:VAL:HG23	2.21	0.41
4:D4:820:HIS:HB3	4:D4:866:PHE:CE1	2.56	0.41
4:D4:1098:LEU:HB3	4:D4:1099:PRO:HD2	2.03	0.41
6:F1:1779:GLY:O	6:F1:1783:LEU:HG	2.20	0.41
6:F2:1544:ALA:N	6:F2:1545:PRO:CD	2.83	0.41
9:I1:1316:ALA:HA	15:O1:269:ILE:HG13	2.02	0.41
9:I2:891:LEU:N	13:M3:591:ASP:CB	2.81	0.41
9:I2:895:ARG:HG2	13:M3:585:LEU:C	2.40	0.41
9:I2:900:ARG:CD	15:O3:235:ASN:HA	2.15	0.41
9:I2:909:ARG:O	13:M3:580:LYS:NZ	2.54	0.41
9:I2:917:TYR:N	15:O3:190:ARG:CA	2.56	0.41
17:Q1:76:TYR:CE2	17:Q1:78:SER:O	2.74	0.41
17:Q1:305:THR:CG2	17:Q1:306:LYS:N	2.82	0.41
17:Q1:344:SER:O	17:Q1:347:PHE:CE1	2.74	0.41
17:Q1:380:THR:HG23	17:Q1:380:THR:O	2.20	0.41
17:Q1:441:ARG:HH21	17:Q1:444:GLU:HB2	1.84	0.41
17:Q1:529:HIS:CA	17:Q1:532:LYS:HE2	2.50	0.41
17:Q1:718:ILE:N	17:Q1:718:ILE:CD1	2.83	0.41
17:Q1:829:VAL:CG1	17:Q1:830:SER:N	2.82	0.41
17:Q2:58:SER:HB2	17:Q2:70:LYS:CE	2.43	0.41
17:Q2:110:ILE:HG22	17:Q2:110:ILE:O	2.19	0.41
17:Q2:133:ALA:HB1	17:Q2:168:LYS:NZ	2.35	0.41
17:Q2:234:ARG:HB3	17:Q2:238:GLY:HA2	2.01	0.41
17:Q2:275:ILE:HG22	17:Q2:277:GLY:H	1.85	0.41
17:Q2:536:GLU:HG3	17:Q2:587:LEU:HD13	2.03	0.41
17:Q2:584:LYS:CE	17:Q2:708:TRP:CH2	2.95	0.41
17:Q2:650:LEU:HG	17:Q2:654:VAL:HG13	2.02	0.41
17:Q2:716:ASN:HA	17:Q2:719:ASN:CB	2.49	0.41
17:Q2:852:ILE:CG2	17:Q2:853:LYS:N	2.82	0.41
18:R1:531:ILE:CG2	18:R1:580:PHE:CD1	3.03	0.41
18:R1:533:LEU:CD2	18:R1:549:PHE:CZ	3.04	0.41
18:R1:558:ILE:HG12	18:R1:584:ILE:HD13	2.03	0.41
18:R1:625:LYS:CD	18:R1:628:PHE:HE1	2.34	0.41
18:R1:634:PHE:CE2	18:R1:635:LEU:HG	2.54	0.41
18:R1:664:LEU:HD13	18:R1:690:PHE:CZ	2.54	0.41
19:R2:664:LEU:CD1	19:R2:694:VAL:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:684:ILE:HD12	19:R2:722:ALA:HA	1.97	0.41
20:S1:162:THR:HG22	20:S1:163:LYS:N	2.35	0.41
21:T1:60:ASP:H	21:T1:70:LEU:CD1	2.32	0.41
23:V1:246:TRP:CD1	23:V1:331:TYR:CD2	3.09	0.41
23:V1:511:TYR:HA	23:V1:512:PRO:HD3	1.73	0.41
23:V2:95:ILE:HA	23:V2:96:PRO:HD3	1.90	0.41
23:V2:215:SER:HB2	23:V2:390:TRP:CH2	2.54	0.41
24:W1:153:GLN:OE1	24:W1:193:HIS:HA	2.20	0.41
24:W1:436:HIS:CD2	24:W1:438:GLU:H	2.37	0.41
25:X2:644:TRP:HZ3	26:Y2:1225:PHE:HB3	1.84	0.41
25:X2:791:ILE:HA	25:X2:794:ILE:CG1	2.39	0.41
26:Y1:1272:ILE:O	26:Y1:1276:ILE:CG1	2.66	0.41
26:Y1:1294:LYS:HG3	27:Z1:588:TRP:HE1	1.75	0.41
26:Y2:1369:PHE:N	26:Y2:1383:ALA:CB	2.83	0.41
27:Z1:190:ASP:CA	27:Z1:311:GLN:HG3	2.40	0.41
27:Z1:208:PHE:CE2	27:Z1:279:ALA:C	2.92	0.41
27:Z1:213:PRO:CG	27:Z1:213:PRO:O	2.68	0.41
27:Z1:252:GLN:CB	27:Z1:335:MET:CG	2.53	0.41
27:Z1:393:LEU:O	27:Z1:397:ILE:HG13	2.20	0.41
27:Z2:143:VAL:CG2	27:Z2:153:MET:SD	2.80	0.41
27:Z2:376:ILE:HG12	27:Z2:381:ILE:HG12	2.02	0.41
1:A3:1242:THR:HG22	1:A3:1245:ASP:H	1.85	0.41
1:A3:1328:ARG:NH1	4:D3:872:LEU:HD11	2.34	0.41
1:A4:1242:THR:HG22	1:A4:1245:ASP:H	1.85	0.41
6:F1:135:VAL:CG2	9:I1:1336:MET:HB3	2.50	0.41
6:F1:267:GLU:CD	9:I1:1202:VAL:HG11	2.38	0.41
6:F2:462:SER:N	6:F2:463:PRO:CD	2.84	0.41
6:F2:1351:VAL:O	6:F2:1352:LYS:HG2	2.21	0.41
7:G1:255:LEU:HD21	15:O2:245:GLU:HG3	1.68	0.41
9:I1:1046:HIS:NE2	15:O1:168:ALA:CB	2.84	0.41
9:I1:1049:LEU:HB3	15:O1:170:LEU:CB	2.26	0.41
9:I2:809:HIS:NE2	15:O3:243:LEU:N	2.53	0.41
9:I2:1032:THR:N	13:M3:621:ARG:HD2	2.36	0.41
9:I2:1160:ILE:CD1	15:O3:263:GLN:HG2	2.51	0.41
9:I2:1371:LEU:O	9:I2:1371:LEU:HD23	2.20	0.41
13:M3:614:ASP:HB2	13:M3:615:PRO:HD2	2.03	0.41
17:Q1:588:ILE:CG2	17:Q1:589:GLU:N	2.82	0.41
17:Q1:646:PHE:CE2	17:Q1:669:VAL:CG1	3.03	0.41
17:Q1:836:PHE:HD2	17:Q1:842:GLU:CD	2.23	0.41
17:Q1:856:LYS:CB	17:Q1:859:ASP:CA	2.97	0.41
17:Q1:983:VAL:HG13	17:Q1:1104:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1024:VAL:CG2	17:Q1:1025:ASP:N	2.82	0.41
17:Q2:332:LYS:HB3	17:Q2:352:TYR:CD2	2.54	0.41
17:Q2:532:LYS:HB3	17:Q2:579:ILE:HG22	2.02	0.41
17:Q2:714:TYR:CD2	17:Q2:715:LEU:O	2.74	0.41
18:R1:435:PHE:CB	18:R1:448:ILE:HD11	2.48	0.41
18:R1:465:ILE:CG2	18:R1:466:ASN:N	2.83	0.41
18:R1:591:ILE:CG2	18:R1:592:LYS:N	2.84	0.41
18:R1:617:ILE:CD1	18:R1:670:LYS:HG2	2.51	0.41
19:R2:650:GLU:O	19:R2:653:TYR:CD2	2.74	0.41
19:R2:704:LEU:H	19:R2:704:LEU:CD2	2.32	0.41
21:T1:78:LYS:HA	21:T1:96:ALA:HB2	2.03	0.41
22:U1:79:LYS:HG2	22:U1:109:GLY:C	2.41	0.41
22:U1:189:GLU:HA	22:U1:213:SER:O	2.20	0.41
22:U1:313:ASN:HD22	22:U1:313:ASN:HA	1.61	0.41
23:V2:141:ASN:C	23:V2:145:ASN:HD22	2.24	0.41
23:V2:220:ASP:OD2	23:V2:222:GLU:HB3	2.21	0.41
24:W1:218:SER:OG	24:W1:219:ASP:N	2.50	0.41
25:X1:788:ASP:C	25:X1:788:ASP:CG	2.56	0.41
25:X1:811:SER:CA	26:Y1:1402:LEU:CD1	2.99	0.41
25:X2:811:SER:CA	26:Y2:1402:LEU:CD1	2.99	0.41
26:Y2:1125:ASP:HB3	26:Y2:1126:LEU:N	2.32	0.41
26:Y2:1345:LEU:HA	26:Y2:1348:LYS:CG	2.50	0.41
27:Z1:209:TYR:HE2	27:Z1:333:MET:C	2.23	0.41
27:Z1:297:TYR:CZ	27:Z1:321:ASP:CG	2.74	0.41
27:Z2:147:GLU:O	27:Z2:149:ASP:N	2.53	0.41
27:Z2:153:MET:HE2	27:Z2:211:PHE:CE1	2.56	0.41
27:Z2:209:TYR:HE2	27:Z2:333:MET:C	2.23	0.41
1:A2:773:PHE:CZ	1:A2:818:LEU:HD12	2.48	0.41
1:A2:1227:PRO:CD	1:A1:647:GLU:CG	2.79	0.41
1:A2:1230:TYR:CD2	1:A1:590:SER:O	2.73	0.41
1:A2:1281:LEU:HD12	1:A1:635:ARG:HH11	1.77	0.41
1:A3:773:PHE:CZ	1:A3:818:LEU:HD12	2.48	0.41
4:D1:1091:THR:OG1	4:D1:1092:SER:N	2.54	0.41
4:D3:977:GLU:O	4:D3:981:VAL:HG23	2.21	0.41
4:D4:791:PRO:HG2	4:D4:832:GLU:HG3	2.03	0.41
4:D4:1001:TRP:HE1	4:D4:1056:ARG:HG3	1.85	0.41
4:D4:1055:MET:HE2	4:D4:1111:ALA:HB2	2.03	0.41
6:F1:462:SER:N	6:F1:463:PRO:CD	2.84	0.41
7:G2:251:TYR:O	15:O4:252:VAL:HG22	2.20	0.41
9:I1:908:ARG:HD2	13:M1:552:TYR:HB2	1.77	0.41
10:J2:249:ASP:HA	14:N3:428:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M3:476:THR:CG2	14:N4:323:ARG:HD3	2.51	0.41
15:O3:98:TYR:CD1	15:O3:138:LEU:HA	2.56	0.41
17:Q1:141:THR:CG2	17:Q1:163:GLY:CA	2.95	0.41
17:Q1:142:PHE:CD2	17:Q1:143:PRO:O	2.74	0.41
17:Q1:337:HIS:CE1	17:Q1:404:MET:SD	3.14	0.41
17:Q1:478:PHE:CZ	17:Q1:479:VAL:O	2.74	0.41
17:Q1:589:GLU:HG2	17:Q1:688:THR:CG2	2.50	0.41
17:Q1:606:GLN:H	17:Q1:609:VAL:CG1	2.33	0.41
17:Q1:791:VAL:CG1	17:Q1:792:LEU:N	2.82	0.41
17:Q1:884:HIS:O	17:Q1:887:TRP:CD1	2.74	0.41
17:Q2:232:THR:O	17:Q2:242:LEU:HA	2.21	0.41
17:Q2:316:ILE:HG13	17:Q2:331:LEU:CD2	2.50	0.41
17:Q2:327:ALA:C	17:Q2:330:THR:HG22	2.41	0.41
17:Q2:337:HIS:CE1	17:Q2:404:MET:SD	3.14	0.41
17:Q2:584:LYS:HB3	17:Q2:586:ASP:CA	2.51	0.41
17:Q2:746:VAL:O	17:Q2:750:TYR:CD2	2.74	0.41
17:Q2:777:ILE:C	17:Q2:779:ASN:H	2.23	0.41
17:Q2:1131:ILE:CG2	17:Q2:1132:LYS:N	2.83	0.41
18:R1:210:MET:O	20:S1:325:TYR:OH	2.21	0.41
18:R1:438:GLU:HG3	18:R1:439:SER:H	1.85	0.41
19:R2:621:GLN:HA	19:R2:670:LYS:HE2	2.01	0.41
20:S2:418:PRO:HB3	20:S2:445:ALA:HB1	2.01	0.41
22:U1:192:ILE:HA	27:Z1:664:ARG:CB	2.47	0.41
22:U1:346:THR:C	23:V1:51:MET:HB3	2.41	0.41
22:U2:79:LYS:HG2	22:U2:109:GLY:C	2.41	0.41
23:V1:159:ILE:HD13	23:V1:176:GLU:HA	2.01	0.41
23:V2:240:PHE:CD1	23:V2:268:SER:HB3	2.56	0.41
25:X1:701:GLU:HG2	27:Z1:591:GLN:HE22	1.85	0.41
25:X1:776:PHE:HE1	25:X1:795:LYS:CG	2.31	0.41
25:X2:698:GLN:CG	27:Z2:432:ASN:HA	2.43	0.41
25:X2:778:LYS:HG2	25:X2:795:LYS:N	2.15	0.41
27:Z1:683:LEU:O	27:Z1:687:LEU:HG	2.21	0.41
27:Z2:155:ASP:HB2	27:Z2:161:GLU:HG3	2.02	0.41
27:Z2:287:ILE:CD1	27:Z2:327:LEU:HD13	2.50	0.41
27:Z2:329:LYS:CE	27:Z2:333:MET:SD	3.00	0.41
27:Z2:344:TYR:C	27:Z2:346:ASN:H	2.24	0.41
27:Z2:683:LEU:O	27:Z2:687:LEU:HG	2.21	0.41
1:A2:1226:LEU:CD2	1:A1:647:GLU:CA	2.93	0.41
1:A2:1274:ASP:CA	1:A1:642:ARG:NH1	2.84	0.41
1:A2:1331:GLU:HB2	4:D1:902:SER:HB2	2.02	0.41
1:A2:1332:ARG:HD2	4:D1:979:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1241:ARG:HE	1:A3:1241:ARG:HB3	1.72	0.41
1:A4:442:ARG:CZ	4:D3:1022:PRO:CD	2.99	0.41
4:D1:1055:MET:HE2	4:D1:1111:ALA:HB2	2.02	0.41
4:D2:395:LEU:HD11	4:D2:735:VAL:HG21	2.01	0.41
6:F1:138:ILE:N	9:I1:1392:VAL:CG2	2.84	0.41
6:F1:162:VAL:CA	9:I1:1331:LYS:HB2	2.51	0.41
6:F1:701:GLU:N	6:F1:701:GLU:OE2	2.53	0.41
6:F2:140:GLU:OE1	9:I2:1391:THR:N	2.53	0.41
6:F2:1193:MET:HB3	6:F2:1251:TYR:HB3	2.03	0.41
6:F2:1471:PHE:CG	6:F2:1472:GLY:N	2.89	0.41
6:F2:1779:GLY:O	6:F2:1783:LEU:HG	2.21	0.41
9:I1:900:ARG:HB2	13:M1:580:LYS:CA	2.33	0.41
9:I1:900:ARG:N	13:M1:580:LYS:N	2.69	0.41
9:I1:962:ILE:CD1	15:O1:184:ARG:N	2.67	0.41
9:I1:1050:SER:H	15:O1:174:LEU:HD13	1.32	0.41
9:I2:809:HIS:NE2	15:O3:243:LEU:HD12	2.36	0.41
9:I2:809:HIS:CB	15:O3:244:GLU:N	2.47	0.41
9:I2:813:ILE:HG23	15:O3:241:SER:HB3	1.97	0.41
9:I2:889:THR:CB	13:M3:594:LYS:HD2	2.51	0.41
9:I2:1305:LEU:HB2	15:O3:263:GLN:HE21	1.78	0.41
9:I2:1644:ARG:NH2	9:I2:1721:GLU:OE1	2.54	0.41
15:O2:75:ILE:N	15:O2:76:PRO:CD	2.83	0.41
15:O2:98:TYR:CD1	15:O2:138:LEU:HA	2.56	0.41
17:Q1:139:ILE:O	17:Q1:139:ILE:HG23	2.19	0.41
17:Q1:264:ASN:HB3	17:Q1:289:LYS:CB	2.44	0.41
17:Q1:332:LYS:HB3	17:Q1:352:TYR:CD2	2.54	0.41
17:Q1:383:LEU:HB2	17:Q1:511:PRO:HG3	1.59	0.41
17:Q1:456:ILE:CG1	17:Q1:468:LEU:CB	2.98	0.41
17:Q1:528:GLU:HB3	17:Q1:579:ILE:HD12	1.98	0.41
17:Q1:601:ASN:C	17:Q1:603:ILE:H	2.24	0.41
17:Q1:714:TYR:CD2	17:Q1:715:LEU:O	2.74	0.41
17:Q1:851:LEU:HG	17:Q1:881:LYS:HZ2	1.84	0.41
17:Q2:76:TYR:CE2	17:Q2:78:SER:O	2.74	0.41
17:Q2:142:PHE:CD2	17:Q2:143:PRO:O	2.74	0.41
17:Q2:284:TYR:HB3	17:Q2:292:PHE:HE1	1.86	0.41
17:Q2:313:TYR:CD1	17:Q2:313:TYR:C	2.95	0.41
17:Q2:352:TYR:CD1	17:Q2:352:TYR:C	2.94	0.41
17:Q2:463:LYS:HE2	17:Q2:463:LYS:CA	2.47	0.41
17:Q2:478:PHE:CZ	17:Q2:479:VAL:O	2.73	0.41
17:Q2:509:ALA:HB2	17:Q2:570:PHE:CD1	2.56	0.41
17:Q2:600:PHE:CZ	17:Q2:675:LEU:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:600:PHE:CD1	17:Q2:600:PHE:C	2.94	0.41
17:Q2:725:PHE:CE1	17:Q2:729:CYS:SG	3.14	0.41
17:Q2:808:TYR:CD2	17:Q2:811:LEU:HB2	2.53	0.41
17:Q2:836:PHE:CD2	17:Q2:842:GLU:CD	2.95	0.41
17:Q2:884:HIS:O	17:Q2:887:TRP:CD1	2.74	0.41
17:Q2:890:GLN:CB	17:Q2:899:ALA:HB2	2.51	0.41
17:Q2:933:LEU:HD21	19:R2:712:LYS:CA	2.51	0.41
17:Q2:1073:ASN:HD22	17:Q2:1073:ASN:H	1.69	0.41
17:Q2:1147:THR:O	17:Q2:1147:THR:HG23	2.20	0.41
18:R1:438:GLU:CG	18:R1:439:SER:N	2.82	0.41
18:R1:465:ILE:HD13	18:R1:473:SER:OG	2.20	0.41
18:R1:483:VAL:CG2	18:R1:516:TRP:CE2	2.96	0.41
18:R1:510:LEU:CB	18:R1:533:LEU:CD1	2.94	0.41
18:R1:543:VAL:CG2	18:R1:544:LYS:N	2.82	0.41
18:R1:617:ILE:CG2	18:R1:618:GLU:N	2.83	0.41
18:R1:650:GLU:O	18:R1:653:TYR:CD2	2.74	0.41
18:R1:653:TYR:CD1	18:R1:653:TYR:C	2.94	0.41
19:R2:531:ILE:HG13	19:R2:532:ALA:N	2.36	0.41
19:R2:635:LEU:HB3	19:R2:652:LEU:HD22	2.03	0.41
19:R2:684:ILE:CD1	19:R2:688:LEU:CD2	2.94	0.41
19:R2:714:TYR:CD1	19:R2:714:TYR:C	2.94	0.41
20:S1:416:ASP:HA	20:S1:443:THR:CG2	2.44	0.41
20:S2:292:ILE:H	20:S2:292:ILE:CD1	2.27	0.41
21:T1:48:THR:O	21:T1:49:LEU:HD23	2.21	0.41
21:T2:59:VAL:HB	21:T2:70:LEU:HD11	2.03	0.41
21:T2:217:LEU:HD13	21:T2:218:LEU:N	2.36	0.41
22:U1:206:ALA:N	27:Z1:668:GLU:OE1	2.54	0.41
22:U1:288:LEU:HD21	25:X1:796:ILE:HG13	1.99	0.41
22:U1:295:GLU:C	27:Z1:657:TYR:C	2.76	0.41
22:U1:295:GLU:CA	27:Z1:658:LEU:HG	2.43	0.41
22:U2:86:GLU:HB2	22:U2:98:TRP:CZ2	2.56	0.41
23:V1:57:PRO:HB2	23:V1:82:ILE:HD11	2.03	0.41
23:V1:373:GLU:O	23:V1:377:MET:HG3	2.21	0.41
23:V1:434:PHE:CD2	23:V1:458:ARG:HA	2.56	0.41
23:V2:168:ARG:HD3	23:V2:170:ASN:HB3	2.02	0.41
23:V2:246:TRP:CD1	23:V2:331:TYR:CD2	3.09	0.41
23:V2:531:LEU:HB3	23:V2:534:ILE:CG1	2.51	0.41
24:W2:111:GLN:HG3	24:W2:168:TYR:CG	2.55	0.41
24:W2:167:PHE:O	24:W2:174:SER:HB2	2.21	0.41
25:X1:648:LEU:CD1	27:Z1:535:PHE:CE2	3.03	0.41
25:X1:700:ILE:HA	26:Y1:1298:TYR:HE1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:777:ASN:O	25:X1:778:LYS:CD	2.65	0.41
25:X1:817:GLN:HB3	27:Z1:708:PHE:CE2	2.55	0.41
25:X1:819:ASN:HA	25:X1:822:LYS:CD	2.51	0.41
25:X2:692:LYS:HD3	27:Z2:10:LEU:HD23	1.09	0.41
25:X2:700:ILE:HA	26:Y2:1298:TYR:HE1	1.84	0.41
25:X2:701:GLU:HG2	27:Z2:591:GLN:HE22	1.86	0.41
25:X2:778:LYS:HG3	25:X2:794:ILE:HG13	1.99	0.41
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:HD22	1.91	0.41
26:Y2:1298:TYR:HE2	27:Z2:591:GLN:HB2	1.84	0.41
27:Z1:182:ILE:HD13	27:Z1:198:ASN:CG	2.41	0.41
27:Z1:210:PRO:C	27:Z1:211:PHE:CA	2.72	0.41
27:Z1:344:TYR:C	27:Z1:346:ASN:H	2.24	0.41
27:Z1:358:ARG:CB	27:Z1:377:SER:OG	2.69	0.41
27:Z2:26:ILE:CG2	27:Z2:440:MET:CG	2.99	0.41
27:Z2:65:LEU:HD21	27:Z2:82:LEU:HD13	2.03	0.41
27:Z2:69:PHE:CD1	27:Z2:84:ASN:ND2	2.85	0.41
27:Z2:182:ILE:HD13	27:Z2:198:ASN:CG	2.41	0.41
27:Z2:208:PHE:CD1	27:Z2:211:PHE:HB2	2.56	0.41
27:Z2:669:THR:HG22	27:Z2:669:THR:C	2.42	0.41
1:A2:1091:VAL:HG12	4:D1:1104:GLU:CG	2.51	0.41
1:A2:1099:GLN:HE22	14:N1:411:GLN:HE22	1.69	0.41
1:A4:861:GLN:O	1:A4:865:ALA:N	2.52	0.41
4:D2:664:ASN:O	4:D2:667:ARG:NH2	2.50	0.41
6:F1:138:ILE:CA	9:I1:1391:THR:HB	2.50	0.41
6:F1:138:ILE:HG22	9:I1:1392:VAL:HA	2.02	0.41
6:F1:1193:MET:HB3	6:F1:1251:TYR:HB3	2.03	0.41
6:F1:1776:THR:HG23	6:F1:1776:THR:O	2.20	0.41
6:F2:140:GLU:N	9:I2:1391:THR:CG2	2.69	0.41
9:I2:909:ARG:H	13:M3:580:LYS:NZ	2.19	0.41
9:I2:968:PRO:CD	15:O3:177:HIS:NE2	2.84	0.41
13:M1:614:ASP:HB2	13:M1:615:PRO:HD2	2.03	0.41
15:O1:142:PHE:O	15:O1:145:ILE:HG22	2.21	0.41
17:Q1:136:PRO:HB3	17:Q1:168:LYS:HG2	2.01	0.41
17:Q1:232:THR:O	17:Q1:242:LEU:HA	2.21	0.41
17:Q1:327:ALA:C	17:Q1:330:THR:HG22	2.41	0.41
17:Q1:466:TYR:HA	17:Q1:475:LEU:O	2.21	0.41
17:Q1:520:ILE:CG2	17:Q1:521:SER:N	2.84	0.41
17:Q1:527:ILE:CD1	17:Q1:530:ASP:CB	2.96	0.41
17:Q1:539:PHE:CE1	17:Q1:588:ILE:HG12	2.55	0.41
17:Q1:542:ASN:OD1	17:Q1:563:PHE:CD2	2.74	0.41
17:Q1:600:PHE:CZ	17:Q1:675:LEU:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:703:THR:HG21	17:Q1:709:PHE:CD2	2.52	0.41
17:Q1:725:PHE:CD1	17:Q1:740:GLU:CG	2.95	0.41
17:Q1:745:ILE:HD13	17:Q1:800:GLN:CG	2.51	0.41
17:Q1:1087:LYS:CG	17:Q1:1117:ILE:HG21	2.50	0.41
17:Q2:111:HIS:CD2	17:Q2:514:PHE:CB	3.01	0.41
17:Q2:288:ASN:HA	17:Q2:333:ILE:HG23	2.03	0.41
17:Q2:463:LYS:O	17:Q2:478:PHE:CD1	2.74	0.41
17:Q2:539:PHE:CE1	17:Q2:588:ILE:HG12	2.56	0.41
17:Q2:591:PHE:CE1	17:Q2:637:ASN:OD1	2.74	0.41
17:Q2:601:ASN:C	17:Q2:603:ILE:H	2.24	0.41
17:Q2:629:LEU:CD2	17:Q2:632:LYS:CB	2.94	0.41
17:Q2:703:THR:HG21	17:Q2:709:PHE:CD2	2.52	0.41
17:Q2:743:LEU:HD23	17:Q2:747:LYS:HG3	2.03	0.41
17:Q2:1091:THR:CG2	17:Q2:1093:GLU:HG2	2.51	0.41
18:R1:433:ALA:HB1	18:R1:453:GLU:CB	2.38	0.41
18:R1:436:LEU:CA	18:R1:448:ILE:O	2.69	0.41
18:R1:647:ALA:O	18:R1:651:ILE:HG23	2.20	0.41
19:R2:104:LEU:HD23	19:R2:104:LEU:HA	1.96	0.41
20:S1:513:MET:HA	20:S1:541:ALA:HB1	2.02	0.41
21:T2:78:LYS:HA	21:T2:96:ALA:HB2	2.03	0.41
22:U2:77:TYR:HD1	22:U2:110:SER:HB3	1.86	0.41
23:V2:152:LEU:CD2	23:V2:182:LEU:HB3	2.43	0.41
25:X2:648:LEU:CD1	27:Z2:535:PHE:CG	3.03	0.41
26:Y1:1338:GLN:CA	27:Z1:630:TRP:CH2	2.72	0.41
26:Y1:1408:ARG:O	26:Y1:1412:GLU:HG2	2.21	0.41
26:Y1:1443:MET:HE3	27:Z1:332:GLU:CB	2.50	0.41
26:Y1:1449:ILE:CD1	27:Z1:397:ILE:HG12	2.51	0.41
26:Y2:1338:GLN:HG2	27:Z1:108:ALA:CB	2.41	0.41
26:Y2:1372:LYS:N	26:Y2:1372:LYS:O	2.20	0.41
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HD22	2.52	0.41
27:Z1:329:LYS:CE	27:Z1:333:MET:CG	2.88	0.41
27:Z1:682:GLU:OE1	27:Z2:650:SER:HB3	2.21	0.41
27:Z2:125:SER:OG	27:Z2:146:LYS:CD	2.69	0.41
27:Z2:184:ASP:CG	27:Z2:302:ILE:HG12	2.42	0.41
27:Z2:358:ARG:CB	27:Z2:377:SER:OG	2.69	0.41
1:A2:1200:ARG:HB3	1:A1:595:GLU:HB3	1.78	0.40
1:A3:1327:VAL:CB	4:D3:873:GLN:HA	2.44	0.40
1:A3:1402:ASP:HB3	4:D3:821:GLU:CD	2.39	0.40
4:D1:664:ASN:O	4:D1:667:ARG:NH2	2.50	0.40
4:D2:791:PRO:HG2	4:D2:832:GLU:HG3	2.03	0.40
4:D3:1055:MET:HE2	4:D3:1111:ALA:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:161:ALA:O	9:I1:1335:LYS:CB	2.69	0.40
6:F1:1167:GLU:N	6:F1:1167:GLU:OE1	2.54	0.40
6:F1:1511:VAL:O	6:F1:1511:VAL:HG22	2.21	0.40
6:F1:1669:GLU:HG2	6:F1:1670:ASN:N	2.36	0.40
6:F2:1267:ARG:CZ	15:O4:259:ASP:HA	2.51	0.40
9:I2:914:ASN:HD21	15:O3:194:GLU:CD	2.21	0.40
9:I2:921:GLU:C	15:O3:186:PHE:CZ	2.71	0.40
9:I2:1048:GLU:O	16:P3:141:ALA:HA	2.19	0.40
9:I2:1106:LYS:CG	15:O3:274:GLY:O	2.55	0.40
9:I2:1304:ASN:ND2	14:N3:414:ALA:CB	2.79	0.40
17:Q1:76:TYR:O	17:Q1:76:TYR:CG	2.75	0.40
17:Q1:275:ILE:HG22	17:Q1:277:GLY:H	1.85	0.40
17:Q1:349:SER:O	17:Q1:363:LEU:HA	2.21	0.40
17:Q1:450:ARG:H	17:Q1:453:ILE:HD12	1.87	0.40
17:Q1:590:LYS:HG2	17:Q1:594:LEU:HD13	2.03	0.40
17:Q1:725:PHE:CE1	17:Q1:729:CYS:SG	3.14	0.40
17:Q1:867:GLN:CG	17:Q1:868:HIS:N	2.82	0.40
17:Q1:975:PHE:CE1	17:Q1:1044:ARG:NH2	2.87	0.40
17:Q1:1104:ILE:CG2	17:Q1:1105:ASP:N	2.84	0.40
17:Q1:1147:THR:O	17:Q1:1147:THR:HG23	2.20	0.40
17:Q2:334:TRP:HE1	17:Q2:352:TYR:HB3	1.86	0.40
17:Q2:542:ASN:OD1	17:Q2:563:PHE:CD2	2.74	0.40
17:Q2:606:GLN:H	17:Q2:609:VAL:CG1	2.33	0.40
17:Q2:719:ASN:OD1	17:Q2:723:PHE:CE1	2.74	0.40
17:Q2:983:VAL:HG13	17:Q2:1104:ILE:CD1	2.51	0.40
19:R2:7:TYR:O	19:R2:9:THR:N	2.54	0.40
19:R2:82:LEU:HA	19:R2:82:LEU:HD23	1.87	0.40
19:R2:507:ASP:OD2	19:R2:537:PHE:CE1	2.74	0.40
19:R2:527:VAL:HB	19:R2:580:PHE:CG	2.56	0.40
19:R2:533:LEU:HD23	19:R2:549:PHE:CD2	2.56	0.40
20:S1:153:LYS:HG2	21:T1:261:SER:HB2	2.03	0.40
20:S2:330:ASP:OD2	20:S2:332:ARG:NH2	2.51	0.40
21:T1:253:PHE:CD1	21:T1:257:LEU:HD11	2.56	0.40
21:T2:14:ASP:OD1	21:T2:15:ALA:N	2.54	0.40
22:U1:144:ASP:C	22:U1:146:ARG:H	2.24	0.40
22:U2:175:PRO:HD3	22:U2:220:TRP:HB3	2.02	0.40
23:V1:240:PHE:CD1	23:V1:268:SER:HB3	2.56	0.40
23:V2:480:GLU:O	23:V2:483:PRO:HD2	2.21	0.40
24:W1:165:PHE:HB3	24:W1:177:PHE:HB2	2.03	0.40
24:W2:169:VAL:HG13	24:W2:228:LEU:HD22	2.03	0.40
27:Z1:189:LYS:C	27:Z1:311:GLN:CG	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:422:ARG:HD2	27:Z1:442:ASN:OD1	2.22	0.40
27:Z1:628:MET:CG	27:Z1:632:LYS:HE3	2.50	0.40
27:Z2:38:ILE:HG12	27:Z2:43:ILE:HD12	2.03	0.40
27:Z2:239:SER:C	27:Z2:241:THR:N	2.72	0.40
27:Z2:331:LEU:CD1	27:Z2:347:SER:HB2	2.39	0.40
1:A1:1238:ILE:O	1:A1:1242:THR:N	2.42	0.40
1:A2:1225:PRO:CA	1:A1:594:LEU:CD1	2.66	0.40
1:A3:1271:ILE:O	1:A4:646:ILE:HD13	2.21	0.40
1:A3:1333:ARG:HD2	4:D3:880:ASP:CA	2.32	0.40
1:A4:1182:ILE:HG21	1:A4:1248:ILE:HA	2.04	0.40
4:D1:977:GLU:O	4:D1:981:VAL:HG23	2.21	0.40
4:D3:1001:TRP:CZ3	4:D3:1060:ARG:NH1	2.90	0.40
4:D4:1001:TRP:CZ3	4:D4:1060:ARG:NH1	2.90	0.40
6:F1:153:LEU:O	9:I1:1395:LEU:CD2	2.69	0.40
6:F1:158:PRO:HB2	9:I1:1336:MET:HA	1.39	0.40
6:F1:1351:VAL:O	6:F1:1352:LYS:HG2	2.21	0.40
6:F2:1669:GLU:HG2	6:F2:1670:ASN:N	2.36	0.40
9:I2:113:GLN:O	9:I2:114:SER:OG	2.38	0.40
9:I2:899:LEU:CD1	13:M3:582:THR:C	2.89	0.40
9:I2:961:ARG:CB	16:P3:155:GLU:O	2.68	0.40
17:Q1:110:ILE:HG23	17:Q1:474:VAL:HG21	2.04	0.40
17:Q1:163:GLY:O	17:Q1:164:LEU:HD13	2.21	0.40
17:Q1:275:ILE:HD11	17:Q1:281:ARG:HH21	1.85	0.40
17:Q1:384:ASN:CB	17:Q1:509:ALA:CA	2.81	0.40
17:Q1:731:GLU:O	17:Q1:732:GLU:HG3	2.21	0.40
17:Q1:746:VAL:O	17:Q1:750:TYR:CD2	2.74	0.40
17:Q1:836:PHE:CD2	17:Q1:842:GLU:CD	2.95	0.40
17:Q1:871:LEU:HD23	17:Q1:871:LEU:C	2.41	0.40
17:Q1:999:LEU:CD1	17:Q1:1003:VAL:HG13	2.46	0.40
17:Q2:429:VAL:CG1	17:Q2:430:ASN:N	2.83	0.40
17:Q2:594:LEU:N	17:Q2:594:LEU:HD12	2.37	0.40
17:Q2:611:ASN:CA	17:Q2:614:TRP:HE3	2.26	0.40
17:Q2:811:LEU:HD22	17:Q2:814:LEU:CD2	2.52	0.40
17:Q2:851:LEU:HD21	17:Q2:876:GLN:HB3	2.03	0.40
18:R1:343:ILE:HD13	18:R1:344:ARG:H	1.85	0.40
18:R1:582:GLU:OE2	18:R1:632:LYS:HE3	2.21	0.40
19:R2:363:VAL:HG11	19:R2:408:ASP:OD1	2.21	0.40
19:R2:534:SER:HB3	19:R2:546:LEU:HD22	2.03	0.40
19:R2:582:GLU:OE2	19:R2:632:LYS:HE3	2.21	0.40
19:R2:711:LEU:HG	19:R2:714:TYR:CE2	2.47	0.40
20:S1:341:LEU:HD12	20:S1:341:LEU:HA	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:345:SER:HB3	20:S1:371:PHE:HE2	1.84	0.40
20:S2:153:LYS:HG2	21:T2:261:SER:HB2	2.03	0.40
21:T1:217:LEU:HD13	21:T1:218:LEU:N	2.36	0.40
21:T1:233:ILE:HD11	21:T1:248:LEU:HD13	2.03	0.40
21:T2:23:ARG:NH1	21:T2:84:GLU:OE1	2.54	0.40
21:T2:223:ALA:HB2	21:T2:262:TRP:CZ2	2.55	0.40
21:T2:253:PHE:CD1	21:T2:257:LEU:HD11	2.56	0.40
22:U1:77:TYR:HD1	22:U1:110:SER:HB3	1.86	0.40
23:V2:373:GLU:O	23:V2:377:MET:HG3	2.21	0.40
25:X2:704:GLN:OE1	27:Z2:598:LEU:HD12	2.14	0.40
26:Y2:1277:LYS:HZ2	27:Z2:571:ILE:N	2.01	0.40
26:Y2:1435:LYS:HE2	27:Z2:225:LEU:HD23	1.82	0.40
26:Y2:1449:ILE:CD1	27:Z2:397:ILE:HG12	2.51	0.40
27:Z1:60:SER:HA	27:Z1:63:LEU:O	2.22	0.40
27:Z1:123:PRO:CD	27:Z1:123:PRO:O	2.58	0.40
27:Z1:184:ASP:CG	27:Z1:302:ILE:HG12	2.42	0.40
27:Z1:299:ALA:HA	27:Z1:318:SER:O	2.22	0.40
27:Z1:404:PRO:CD	27:Z2:262:ASN:CB	2.58	0.40
27:Z2:358:ARG:HB2	27:Z2:377:SER:OG	2.21	0.40
1:A1:780:GLU:HG3	1:A1:822:ILE:HG23	2.02	0.40
1:A2:1220:PRO:C	1:A1:599:ARG:HB2	2.35	0.40
1:A3:1084:ARG:C	4:D3:1095:ARG:HD3	2.40	0.40
1:A3:1091:VAL:CG1	4:D3:1100:PRO:CB	2.92	0.40
1:A3:1330:VAL:HG12	4:D3:873:GLN:O	2.21	0.40
4:D2:483:MET:HB2	4:D2:483:MET:HE2	1.95	0.40
4:D3:435:ARG:H	4:D3:435:ARG:HG2	1.67	0.40
4:D3:1001:TRP:HE1	4:D3:1056:ARG:HG3	1.85	0.40
6:F1:138:ILE:HG22	9:I1:1391:THR:C	2.42	0.40
6:F1:1211:ARG:O	6:F1:1215:GLU:N	2.54	0.40
7:G1:247:ASP:N	15:O2:247:TRP:HH2	2.13	0.40
9:I1:629:VAL:HG23	9:I1:630:ASP:N	2.37	0.40
9:I1:900:ARG:CG	13:M1:577:LEU:HG	2.51	0.40
9:I1:908:ARG:CD	13:M1:552:TYR:CB	2.50	0.40
9:I2:1108:PRO:CA	15:O3:281:ALA:HB2	2.46	0.40
15:O1:98:TYR:CD1	15:O1:138:LEU:HA	2.56	0.40
15:O2:142:PHE:O	15:O2:145:ILE:HG22	2.22	0.40
15:O4:98:TYR:CD1	15:O4:138:LEU:HA	2.56	0.40
17:Q1:571:VAL:HG23	17:Q1:572:ALA:N	2.36	0.40
17:Q1:611:ASN:CG	17:Q1:649:PHE:CG	2.95	0.40
17:Q1:616:LYS:HZ3	17:Q1:634:VAL:HG11	1.85	0.40
17:Q1:650:LEU:HG	17:Q1:654:VAL:HG13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:754:ASN:CA	17:Q1:757:LYS:HE2	2.33	0.40
17:Q1:851:LEU:HD21	17:Q1:876:GLN:HB3	2.03	0.40
17:Q2:334:TRP:CZ3	17:Q2:396:LYS:CB	3.04	0.40
17:Q2:555:GLN:HG2	17:Q2:556:HIS:N	2.36	0.40
17:Q2:604:ILE:HG21	17:Q2:672:LEU:CD1	2.52	0.40
17:Q2:822:ASP:OD2	17:Q2:832:TYR:CD1	2.74	0.40
17:Q2:974:ARG:CZ	17:Q2:974:ARG:HB2	2.51	0.40
18:R1:7:TYR:O	18:R1:9:THR:N	2.54	0.40
18:R1:534:SER:HB3	18:R1:546:LEU:HD22	2.03	0.40
18:R1:635:LEU:HB3	18:R1:652:LEU:HD22	2.03	0.40
18:R1:704:LEU:H	18:R1:704:LEU:CD2	2.33	0.40
19:R2:353:ASP:O	19:R2:355:LEU:N	2.51	0.40
19:R2:625:LYS:CD	19:R2:628:PHE:HE1	2.34	0.40
21:T1:209:ASP:OD2	21:T1:259:ARG:HD3	2.21	0.40
21:T1:225:VAL:CG2	21:T1:271:LEU:HD22	2.51	0.40
23:V2:352:THR:OG1	23:V2:355:GLU:HG3	2.21	0.40
25:X1:800:HIS:CD2	27:Z1:691:SER:HA	2.56	0.40
25:X2:726:VAL:C	25:X2:727:SER:CA	2.90	0.40
25:X2:815:GLU:OE2	26:Y2:1402:LEU:HG	2.21	0.40
26:Y1:1287:ASN:HD22	26:Y1:1287:ASN:HA	1.84	0.40
26:Y1:1347:GLN:OE1	26:Y1:1350:PHE:CD2	2.74	0.40
27:Z1:24:ARG:CZ	27:Z1:440:MET:HA	2.47	0.40
27:Z1:65:LEU:HD21	27:Z1:82:LEU:HD13	2.03	0.40
27:Z1:102:ASP:HB2	27:Z1:105:ILE:HD12	1.99	0.40
27:Z1:233:MET:CE	27:Z1:249:VAL:HG22	2.51	0.40
27:Z1:353:ARG:NH1	27:Z1:355:LYS:NZ	2.69	0.40
27:Z2:223:LEU:HD21	27:Z2:263:TRP:CD1	2.57	0.40
1:A2:1331:GLU:C	4:D1:899:THR:O	2.60	0.40
1:A4:520:GLU:HG3	4:D3:1017:THR:CG2	2.25	0.40
1:A4:879:LEU:HD21	1:A4:908:LEU:CD1	2.52	0.40
4:D2:693:GLY:HA3	4:D2:712:PHE:CZ	2.57	0.40
4:D2:1091:THR:OG1	4:D2:1092:SER:N	2.53	0.40
9:I1:767:ASP:HB2	13:M1:546:ARG:NH1	2.36	0.40
9:I1:896:PRO:CB	13:M1:584:GLN:N	2.83	0.40
9:I2:961:ARG:CD	16:P3:157:GLU:HG2	2.49	0.40
9:I2:1301:ASN:O	15:O3:263:GLN:OE1	2.39	0.40
17:Q1:337:HIS:ND1	17:Q1:401:ILE:HB	2.35	0.40
17:Q1:440:ARG:NE	17:Q1:514:PHE:HZ	2.19	0.40
17:Q1:455:ILE:HG23	17:Q1:467:VAL:CG2	2.50	0.40
17:Q1:509:ALA:HB2	17:Q1:570:PHE:CD1	2.56	0.40
17:Q1:651:ASN:HD21	17:Q1:720:GLN:NE2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:700:GLU:CD	17:Q1:758:ILE:HG12	2.42	0.40
17:Q1:743:LEU:HD23	17:Q1:747:LYS:HG3	2.03	0.40
17:Q1:824:ASN:ND2	17:Q1:833:GLU:CG	2.85	0.40
17:Q1:836:PHE:CE2	17:Q1:842:GLU:OE2	2.74	0.40
17:Q1:974:ARG:HB2	17:Q1:974:ARG:CZ	2.51	0.40
17:Q1:1091:THR:CG2	17:Q1:1093:GLU:HG2	2.51	0.40
17:Q2:89:TYR:O	17:Q2:89:TYR:CG	2.75	0.40
17:Q2:163:GLY:O	17:Q2:164:LEU:HD13	2.22	0.40
17:Q2:349:SER:O	17:Q2:363:LEU:HA	2.21	0.40
17:Q2:604:ILE:HD13	17:Q2:672:LEU:CD1	2.51	0.40
17:Q2:611:ASN:CG	17:Q2:649:PHE:CG	2.95	0.40
17:Q2:715:LEU:N	17:Q2:715:LEU:HD12	2.37	0.40
17:Q2:718:ILE:H	17:Q2:718:ILE:CD1	2.34	0.40
17:Q2:731:GLU:O	17:Q2:732:GLU:HG3	2.22	0.40
17:Q2:745:ILE:HD13	17:Q2:800:GLN:CG	2.52	0.40
17:Q2:983:VAL:CG1	17:Q2:1104:ILE:CD1	2.99	0.40
18:R1:9:THR:O	18:R1:9:THR:HG22	2.22	0.40
18:R1:621:GLN:HA	18:R1:670:LYS:HE2	2.01	0.40
18:R1:654:GLU:O	18:R1:658:LEU:HD13	2.20	0.40
18:R1:666:GLU:O	18:R1:669:LYS:HB3	2.20	0.40
18:R1:684:ILE:HD12	18:R1:722:ALA:HA	1.97	0.40
18:R1:706:GLN:H	18:R1:710:LYS:CG	2.35	0.40
19:R2:579:GLN:HE22	19:R2:637:ASP:HB3	1.85	0.40
19:R2:668:HIS:NE2	19:R2:672:VAL:HG21	2.36	0.40
20:S1:153:LYS:HA	21:T1:261:SER:HB2	2.01	0.40
20:S2:187:ASP:OD1	20:S2:187:ASP:C	2.60	0.40
20:S2:247:TYR:CZ	20:S2:260:LEU:HD13	2.56	0.40
20:S2:292:ILE:HA	20:S2:295:ILE:HD12	2.04	0.40
21:T1:14:ASP:OD1	21:T1:15:ALA:N	2.54	0.40
22:U1:86:GLU:HB2	22:U1:98:TRP:CZ2	2.56	0.40
22:U2:144:ASP:C	22:U2:146:ARG:H	2.24	0.40
23:V2:296:PRO:HG2	23:V2:303:PHE:HA	2.03	0.40
23:V2:334:ASP:HB3	23:V2:349:TYR:HE2	1.87	0.40
24:W1:683:SER:OG	24:W1:686:PHE:HB2	2.22	0.40
24:W2:165:PHE:HB3	24:W2:177:PHE:HB2	2.03	0.40
25:X1:693:ILE:O	25:X1:697:LEU:HG	2.21	0.40
25:X1:778:LYS:C	25:X1:778:LYS:HD2	2.41	0.40
25:X2:693:ILE:HD11	26:Y2:1292:LYS:HE2	2.03	0.40
25:X2:788:ASP:C	25:X2:789:GLU:CA	2.72	0.40
25:X2:821:ILE:CG2	26:Y2:1409:LEU:CD1	2.75	0.40
26:Y1:1409:LEU:C	27:Z1:711:LYS:NZ	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:69:PHE:HZ	27:Z1:87:GLU:OE2	2.05	0.40
27:Z2:448:GLN:HB3	27:Z2:573:LYS:HZ1	1.80	0.40
1:A1:827:ILE:CG2	1:A1:850:PRO:N	2.51	0.40
1:A3:879:LEU:HD21	1:A3:908:LEU:CD1	2.52	0.40
1:A4:127:HIS:N	4:D3:1010:ALA:HB2	2.35	0.40
1:A4:712:THR:HG21	4:D3:969:HIS:CB	2.41	0.40
4:D1:693:GLY:HA3	4:D1:712:PHE:CZ	2.57	0.40
4:D2:820:HIS:HB3	4:D2:866:PHE:CE1	2.56	0.40
4:D2:1001:TRP:CZ3	4:D2:1060:ARG:NH1	2.90	0.40
4:D4:837:ILE:N	4:D4:837:ILE:HD12	2.37	0.40
6:F1:273:ALA:HB3	9:I1:1207:PRO:O	2.22	0.40
6:F1:1065:ARG:O	6:F1:1069:LEU:HG	2.21	0.40
9:I1:1254:VAL:HG23	15:O1:258:GLU:HB3	2.04	0.40
9:I2:1029:LEU:HG	13:M3:613:ASP:HB3	0.43	0.40
9:I2:1193:PHE:O	9:I2:1197:ASN:N	2.50	0.40
14:N3:308:ILE:O	14:N3:312:ARG:N	2.53	0.40
17:Q1:76:TYR:O	17:Q1:76:TYR:CD2	2.75	0.40
17:Q1:352:TYR:CD1	17:Q1:352:TYR:C	2.94	0.40
17:Q1:362:ILE:HG22	17:Q1:511:PRO:C	2.36	0.40
17:Q1:386:PHE:CD1	17:Q1:386:PHE:C	2.95	0.40
17:Q1:463:LYS:O	17:Q1:478:PHE:CD1	2.73	0.40
17:Q1:542:ASN:HD22	17:Q1:564:PHE:HB2	1.85	0.40
17:Q1:594:LEU:N	17:Q1:594:LEU:HD12	2.37	0.40
17:Q1:715:LEU:N	17:Q1:715:LEU:HD12	2.37	0.40
17:Q1:890:GLN:CB	17:Q1:899:ALA:HB2	2.51	0.40
17:Q2:535:SER:O	17:Q2:539:PHE:CD2	2.75	0.40
17:Q2:571:VAL:HG23	17:Q2:572:ALA:N	2.36	0.40
18:R1:448:ILE:CG2	18:R1:449:LEU:N	2.84	0.40
18:R1:511:ILE:O	18:R1:549:PHE:HE1	2.04	0.40
19:R2:13:THR:O	19:R2:17:ASP:HB2	2.21	0.40
19:R2:596:GLU:HG2	19:R2:620:LEU:CA	2.51	0.40
19:R2:613:ILE:CG2	19:R2:614:PRO:CD	3.00	0.40
19:R2:688:LEU:HG	19:R2:718:VAL:HG13	2.03	0.40
20:S1:154:PHE:HA	20:S1:160:LEU:HD22	2.04	0.40
20:S1:247:TYR:CZ	20:S1:260:LEU:HD13	2.56	0.40
20:S1:390:LEU:HD21	20:S1:404:VAL:HG22	2.04	0.40
20:S1:492:LEU:HD11	20:S1:508:ILE:HG23	2.04	0.40
20:S2:161:LEU:HD11	21:T2:17:LEU:HG	2.03	0.40
20:S2:468:LYS:HD2	20:S2:499:ASN:HB3	2.04	0.40
21:T1:74:SER:OG	21:T1:75:TYR:N	2.55	0.40
21:T2:181:LEU:HD22	21:T2:199:THR:CG2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:T2:253:PHE:CE1	21:T2:257:LEU:HD11	2.57	0.40
22:U1:291:ASN:HA	25:X1:802:ASP:OD1	2.21	0.40
22:U1:294:VAL:HG12	27:Z1:658:LEU:HA	2.03	0.40
22:U1:294:VAL:HG21	27:Z1:661:GLU:HA	1.72	0.40
22:U2:83:LEU:HD13	22:U2:148:TRP:CE2	2.57	0.40
23:V1:291:LEU:HD13	23:V1:310:VAL:HG22	2.03	0.40
23:V2:141:ASN:C	23:V2:145:ASN:ND2	2.74	0.40
23:V2:434:PHE:CD2	23:V2:458:ARG:HA	2.56	0.40
24:W1:457:PHE:HA	24:W1:477:GLN:HB2	2.04	0.40
24:W2:153:GLN:OE1	24:W2:193:HIS:HA	2.21	0.40
24:W2:457:PHE:HA	24:W2:477:GLN:HB2	2.04	0.40
26:Y1:1453:PHE:HB2	27:Z1:349:VAL:CG1	2.49	0.40
26:Y2:1338:GLN:CA	27:Z2:630:TRP:CH2	2.71	0.40
26:Y2:1369:PHE:CD2	26:Y2:1385:LEU:HG	2.53	0.40
27:Z1:10:LEU:HA	27:Z1:10:LEU:HD12	1.84	0.40
27:Z1:12:ILE:HD12	27:Z1:12:ILE:HA	1.87	0.40
27:Z1:38:ILE:HG12	27:Z1:43:ILE:HD12	2.02	0.40
27:Z1:356:LEU:C	27:Z1:357:GLN:HG2	2.42	0.40
27:Z1:593:SER:O	27:Z1:597:GLU:HG3	2.22	0.40
27:Z2:12:ILE:HG13	27:Z2:37:PHE:HD2	1.87	0.40
27:Z2:249:VAL:HA	27:Z2:252:GLN:CG	2.50	0.40
27:Z2:353:ARG:NH1	27:Z2:355:LYS:NZ	2.69	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	1205/1316 (92%)	1167 (97%)	38 (3%)	0	100 100
1	A2	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100 100
1	A3	1211/1316 (92%)	1172 (97%)	39 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A4	1205/1316 (92%)	1167 (97%)	38 (3%)	0	100	100
2	B1	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
2	B2	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
2	B3	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
2	B4	12/14 (86%)	11 (92%)	1 (8%)	0	100	100
3	C1	15/17 (88%)	11 (73%)	4 (27%)	0	100	100
3	C2	15/17 (88%)	11 (73%)	4 (27%)	0	100	100
3	C3	15/17 (88%)	11 (73%)	4 (27%)	0	100	100
3	C4	15/17 (88%)	11 (73%)	4 (27%)	0	100	100
4	D1	698/720 (97%)	668 (96%)	30 (4%)	0	100	100
4	D2	698/720 (97%)	668 (96%)	30 (4%)	0	100	100
4	D3	698/720 (97%)	668 (96%)	30 (4%)	0	100	100
4	D4	698/720 (97%)	668 (96%)	30 (4%)	0	100	100
5	E1	16/18 (89%)	16 (100%)	0	0	100	100
5	E2	16/18 (89%)	16 (100%)	0	0	100	100
5	E3	16/18 (89%)	16 (100%)	0	0	100	100
5	E4	16/18 (89%)	16 (100%)	0	0	100	100
6	F1	1611/1848 (87%)	1589 (99%)	22 (1%)	0	100	100
6	F2	1611/1848 (87%)	1589 (99%)	22 (1%)	0	100	100
7	G1	51/53 (96%)	51 (100%)	0	0	100	100
7	G2	51/53 (96%)	51 (100%)	0	0	100	100
8	H1	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
8	H2	11/13 (85%)	7 (64%)	4 (36%)	0	100	100
9	I1	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
9	I2	1508/1756 (86%)	1491 (99%)	17 (1%)	0	100	100
10	J1	61/63 (97%)	61 (100%)	0	0	100	100
10	J2	61/63 (97%)	61 (100%)	0	0	100	100
11	K1	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
11	K2	7/9 (78%)	5 (71%)	2 (29%)	0	100	100
13	M1	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
13	M2	165/183 (90%)	158 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	M3	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
13	M4	165/183 (90%)	158 (96%)	7 (4%)	0	100	100
14	N1	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
14	N2	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
14	N3	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
14	N4	174/222 (78%)	172 (99%)	2 (1%)	0	100	100
15	O1	239/241 (99%)	214 (90%)	25 (10%)	0	100	100
15	O2	239/241 (99%)	214 (90%)	25 (10%)	0	100	100
15	O3	239/241 (99%)	213 (89%)	26 (11%)	0	100	100
15	O4	239/241 (99%)	212 (89%)	27 (11%)	0	100	100
16	P1	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
16	P2	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
16	P3	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
16	P4	38/40 (95%)	31 (82%)	7 (18%)	0	100	100
17	Q1	1013/1100 (92%)	946 (93%)	51 (5%)	16 (2%)	9	44
17	Q2	1007/1100 (92%)	940 (93%)	52 (5%)	15 (2%)	10	46
18	R1	657/720 (91%)	600 (91%)	45 (7%)	12 (2%)	8	40
19	R2	612/726 (84%)	560 (92%)	40 (6%)	12 (2%)	7	38
20	S1	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
20	S2	491/621 (79%)	451 (92%)	30 (6%)	10 (2%)	7	38
21	T1	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
21	T2	270/286 (94%)	228 (84%)	36 (13%)	6 (2%)	6	35
22	U1	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
22	U2	303/346 (88%)	266 (88%)	31 (10%)	6 (2%)	7	38
23	V1	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	9	42
23	V2	592/698 (85%)	532 (90%)	50 (8%)	10 (2%)	9	42
24	W1	858/1037 (83%)	798 (93%)	49 (6%)	11 (1%)	12	48
24	W2	858/1037 (83%)	798 (93%)	48 (6%)	12 (1%)	11	46
25	X1	158/187 (84%)	155 (98%)	2 (1%)	1 (1%)	25	66
25	X2	158/187 (84%)	156 (99%)	0	2 (1%)	12	48
26	Y1	183/340 (54%)	175 (96%)	6 (3%)	2 (1%)	14	52

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	Y2	183/340 (54%)	174 (95%)	7 (4%)	2 (1%)	14	52
27	Z1	598/713 (84%)	509 (85%)	51 (8%)	38 (6%)	1	16
27	Z2	598/713 (84%)	511 (86%)	50 (8%)	37 (6%)	1	17
28	a1	144/146 (99%)	120 (83%)	19 (13%)	5 (4%)	3	25
28	a2	144/146 (99%)	119 (83%)	20 (14%)	5 (4%)	3	25
29	b1	84/86 (98%)	73 (87%)	4 (5%)	7 (8%)	1	12
29	b2	84/86 (98%)	76 (90%)	4 (5%)	4 (5%)	2	21
All	All	27409/31134 (88%)	25871 (94%)	1293 (5%)	245 (1%)	21	57

All (245) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
17	Q1	168	LYS
17	Q1	199	PRO
17	Q1	386	PHE
17	Q1	545	TYR
17	Q1	546	ILE
17	Q1	867	GLN
17	Q1	881	LYS
17	Q1	911	SER
17	Q2	168	LYS
17	Q2	199	PRO
17	Q2	386	PHE
17	Q2	545	TYR
17	Q2	546	ILE
17	Q2	867	GLN
17	Q2	911	SER
18	R1	9	THR
18	R1	11	ARG
18	R1	138	ASN
18	R1	165	ASN
18	R1	633	THR
19	R2	9	THR
19	R2	11	ARG
19	R2	138	ASN
19	R2	165	ASN
19	R2	633	THR
20	S1	158	SER
20	S1	368	GLU
20	S1	371	PHE

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Mol	Chain	Res	Type
20	S1	394	GLN
20	S2	158	SER
20	S2	368	GLU
20	S2	371	PHE
20	S2	394	GLN
22	U1	43	SER
22	U2	43	SER
23	V1	272	PRO
23	V1	403	HIS
23	V1	455	PHE
23	V2	272	PRO
23	V2	403	HIS
23	V2	455	PHE
25	X1	638	ASP
25	X2	638	ASP
25	X2	777	ASN
26	Y1	1118	ALA
26	Y1	1371	VAL
26	Y2	1118	ALA
27	Z1	8	SER
27	Z1	11	PRO
27	Z1	93	VAL
27	Z1	94	PRO
27	Z1	101	GLU
27	Z1	124	LYS
27	Z1	210	PRO
27	Z1	211	PHE
27	Z1	239	SER
27	Z1	240	THR
27	Z1	344	TYR
27	Z1	378	ASP
27	Z1	418	ALA
27	Z1	582	GLU
27	Z1	640	GLN
27	Z1	668	GLU
27	Z2	11	PRO
27	Z2	93	VAL
27	Z2	94	PRO
27	Z2	101	GLU
27	Z2	210	PRO
27	Z2	211	PHE
27	Z2	239	SER

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Mol	Chain	Res	Type
27	Z2	240	THR
27	Z2	344	TYR
27	Z2	378	ASP
27	Z2	451	SER
27	Z2	582	GLU
27	Z2	640	GLN
28	a1	1036	ASN
28	a2	1036	ASN
29	b1	54	GLY
29	b1	65	PHE
29	b1	77	VAL
29	b1	82	GLY
29	b1	83	PRO
29	b2	65	PHE
29	b2	77	VAL
29	b2	82	GLY
29	b2	83	PRO
17	Q1	77	SER
17	Q1	438	SER
17	Q1	714	TYR
17	Q1	810	ASP
17	Q1	997	VAL
17	Q2	77	SER
17	Q2	438	SER
17	Q2	714	TYR
17	Q2	810	ASP
17	Q2	997	VAL
17	Q2	1086	ASP
18	R1	8	GLN
18	R1	55	ASN
18	R1	141	THR
18	R1	354	SER
18	R1	434	THR
18	R1	708	SER
19	R2	8	GLN
19	R2	55	ASN
19	R2	141	THR
19	R2	354	SER
19	R2	434	THR
20	S1	180	LEU
20	S1	348	GLY
20	S1	429	ASN

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Mol	Chain	Res	Type
20	S1	527	ILE
20	S2	180	LEU
20	S2	348	GLY
20	S2	429	ASN
20	S2	527	ILE
21	T1	218	LEU
21	T2	218	LEU
22	U1	162	ALA
22	U1	302	ASP
22	U2	162	ALA
22	U2	302	ASP
23	V1	62	GLY
23	V1	239	VAL
23	V2	62	GLY
23	V2	239	VAL
24	W1	113	VAL
24	W1	598	LYS
24	W1	602	ILE
24	W2	113	VAL
24	W2	598	LYS
24	W2	602	ILE
26	Y2	1455	ASN
27	Z1	48	VAL
27	Z1	53	LEU
27	Z1	74	SER
27	Z1	148	ASP
27	Z1	182	ILE
27	Z1	243	VAL
27	Z1	263	TRP
27	Z1	381	ILE
27	Z1	406	ALA
27	Z1	408	LEU
27	Z1	451	SER
27	Z2	48	VAL
27	Z2	53	LEU
27	Z2	74	SER
27	Z2	148	ASP
27	Z2	182	ILE
27	Z2	243	VAL
27	Z2	263	TRP
27	Z2	381	ILE
27	Z2	406	ALA

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Mol	Chain	Res	Type
27	Z2	408	LEU
27	Z2	418	ALA
28	a1	1016	LEU
28	a2	1016	LEU
29	b1	37	LEU
17	Q1	394	LYS
17	Q1	686	GLU
17	Q1	1086	ASP
17	Q2	394	LYS
17	Q2	686	GLU
19	R2	708	SER
22	U1	120	HIS
22	U2	120	HIS
23	V1	404	SER
24	W1	264	ASP
24	W2	264	ASP
27	Z1	75	THR
27	Z1	129	LYS
27	Z1	135	LYS
27	Z1	288	ASN
27	Z1	433	ASP
27	Z2	75	THR
27	Z2	129	LYS
27	Z2	135	LYS
27	Z2	288	ASN
27	Z2	433	ASP
27	Z2	523	ASN
28	a1	975	SER
28	a2	975	SER
18	R1	87	ALA
19	R2	87	ALA
20	S1	531	LEU
20	S2	531	LEU
22	U1	213	SER
22	U2	213	SER
23	V2	404	SER
24	W1	284	ASN
24	W1	346	ALA
24	W2	284	ASN
24	W2	346	ALA
27	Z1	10	LEU
27	Z1	214	SER

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Mol	Chain	Res	Type
27	Z1	309	ASN
27	Z2	10	LEU
27	Z2	214	SER
27	Z2	309	ASN
29	b1	55	ASN
21	T1	114	PRO
21	T1	131	LYS
21	T2	114	PRO
21	T2	131	LYS
23	V1	53	VAL
23	V1	200	ASN
23	V1	364	TYR
23	V2	53	VAL
23	V2	200	ASN
23	V2	364	TYR
24	W1	190	ASP
24	W1	600	ASP
24	W2	190	ASP
24	W2	600	ASP
27	Z1	98	SER
27	Z1	213	PRO
27	Z2	24	ARG
27	Z2	98	SER
27	Z2	213	PRO
28	a1	1087	ASN
28	a2	1087	ASN
21	T1	247	LEU
21	T2	247	LEU
22	U1	188	LEU
22	U2	188	LEU
24	W1	231	GLU
24	W1	500	GLU
24	W2	231	GLU
24	W2	265	SER
24	W2	500	GLU
27	Z1	136	SER
27	Z2	136	SER
20	S2	393	GLY
24	W1	737	ILE
24	W2	737	ILE
28	a2	1046	GLY
20	S1	393	GLY

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Mol	Chain	Res	Type
21	T1	202	GLY
21	T2	202	GLY
28	a1	1046	GLY
23	V1	191	ILE
23	V2	191	ILE
21	T1	97	VAL
21	T2	97	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A1	1058/1111 (95%)	1051 (99%)	7 (1%)	84	90
1	A2	1061/1111 (96%)	1054 (99%)	7 (1%)	84	90
1	A3	1061/1111 (96%)	1054 (99%)	7 (1%)	84	90
1	A4	1058/1111 (95%)	1051 (99%)	7 (1%)	84	90
2	B1	12/12 (100%)	12 (100%)	0	100	100
2	B2	12/12 (100%)	12 (100%)	0	100	100
2	B3	12/12 (100%)	12 (100%)	0	100	100
2	B4	12/12 (100%)	12 (100%)	0	100	100
3	C1	17/17 (100%)	17 (100%)	0	100	100
3	C2	17/17 (100%)	17 (100%)	0	100	100
3	C3	17/17 (100%)	17 (100%)	0	100	100
3	C4	17/17 (100%)	17 (100%)	0	100	100
4	D1	584/593 (98%)	568 (97%)	16 (3%)	44	65
4	D2	584/593 (98%)	568 (97%)	16 (3%)	44	65
4	D3	584/593 (98%)	568 (97%)	16 (3%)	44	65
4	D4	584/593 (98%)	568 (97%)	16 (3%)	44	65
5	E1	14/14 (100%)	13 (93%)	1 (7%)	14	39
5	E2	14/14 (100%)	13 (93%)	1 (7%)	14	39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	E3	14/14 (100%)	13 (93%)	1 (7%)	14	39
5	E4	14/14 (100%)	13 (93%)	1 (7%)	14	39
6	F1	1350/1507 (90%)	1350 (100%)	0	100	100
6	F2	1350/1507 (90%)	1350 (100%)	0	100	100
7	G1	47/47 (100%)	47 (100%)	0	100	100
7	G2	47/47 (100%)	47 (100%)	0	100	100
8	H1	10/10 (100%)	10 (100%)	0	100	100
8	H2	10/10 (100%)	10 (100%)	0	100	100
9	I1	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
9	I2	1340/1509 (89%)	1339 (100%)	1 (0%)	93	97
10	J1	54/54 (100%)	54 (100%)	0	100	100
10	J2	54/54 (100%)	54 (100%)	0	100	100
11	K1	9/9 (100%)	9 (100%)	0	100	100
11	K2	9/9 (100%)	9 (100%)	0	100	100
12	L1	1/1 (100%)	1 (100%)	0	100	100
12	L2	1/1 (100%)	1 (100%)	0	100	100
13	M1	146/154 (95%)	146 (100%)	0	100	100
13	M2	146/154 (95%)	146 (100%)	0	100	100
13	M3	146/154 (95%)	146 (100%)	0	100	100
13	M4	146/154 (95%)	146 (100%)	0	100	100
14	N1	150/173 (87%)	150 (100%)	0	100	100
14	N2	150/173 (87%)	150 (100%)	0	100	100
14	N3	150/173 (87%)	150 (100%)	0	100	100
14	N4	150/173 (87%)	150 (100%)	0	100	100
15	O1	213/213 (100%)	213 (100%)	0	100	100
15	O2	213/213 (100%)	213 (100%)	0	100	100
15	O3	213/213 (100%)	213 (100%)	0	100	100
15	O4	213/213 (100%)	213 (100%)	0	100	100
16	P1	32/32 (100%)	32 (100%)	0	100	100
16	P2	32/32 (100%)	32 (100%)	0	100	100
16	P3	32/32 (100%)	32 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	P4	32/32 (100%)	32 (100%)	0	100	100
17	Q1	967/1034 (94%)	929 (96%)	38 (4%)	32	56
17	Q2	964/1034 (93%)	926 (96%)	38 (4%)	32	56
18	R1	615/663 (93%)	590 (96%)	25 (4%)	30	55
19	R2	570/669 (85%)	545 (96%)	25 (4%)	28	53
20	S1	367/567 (65%)	332 (90%)	35 (10%)	8	27
20	S2	367/567 (65%)	332 (90%)	35 (10%)	8	27
21	T1	233/243 (96%)	223 (96%)	10 (4%)	29	53
21	T2	233/243 (96%)	224 (96%)	9 (4%)	32	56
22	U1	269/303 (89%)	261 (97%)	8 (3%)	41	63
22	U2	269/303 (89%)	261 (97%)	8 (3%)	41	63
23	V1	424/628 (68%)	415 (98%)	9 (2%)	53	72
23	V2	424/628 (68%)	414 (98%)	10 (2%)	49	69
24	W1	639/972 (66%)	616 (96%)	23 (4%)	35	59
24	W2	639/972 (66%)	616 (96%)	23 (4%)	35	59
25	X1	155/174 (89%)	151 (97%)	4 (3%)	46	66
25	X2	155/174 (89%)	150 (97%)	5 (3%)	39	61
26	Y1	178/312 (57%)	170 (96%)	8 (4%)	27	52
26	Y2	178/312 (57%)	163 (92%)	15 (8%)	11	33
27	Z1	577/670 (86%)	544 (94%)	33 (6%)	20	45
27	Z2	577/670 (86%)	548 (95%)	29 (5%)	24	49
28	a1	132/131 (101%)	128 (97%)	4 (3%)	41	63
28	a2	132/131 (101%)	128 (97%)	4 (3%)	41	63
29	b1	75/75 (100%)	71 (95%)	4 (5%)	22	47
29	b2	75/75 (100%)	70 (93%)	5 (7%)	16	41
All	All	23746/27100 (88%)	23241 (98%)	505 (2%)	56	72

All (505) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A2	316	ARG
1	A2	422	LEU
1	A2	779	ASP

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Mol	Chain	Res	Type
1	A2	790	ASP
1	A2	862	LEU
1	A2	976	LEU
1	A2	1116	HIS
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	1116	HIS
1	A4	316	ARG
1	A4	422	LEU
1	A4	779	ASP
1	A4	790	ASP
1	A4	862	LEU
1	A4	976	LEU
1	A4	1116	HIS
4	D1	392	ASP
4	D1	405	LYS
4	D1	435	ARG
4	D1	706	ASN
4	D1	785	ASP
4	D1	977	GLU
4	D1	980	ARG
4	D1	1026	ARG
4	D1	1056	ARG
4	D1	1058	ARG
4	D1	1075	LEU
4	D1	1076	MET
4	D1	1077	MET
4	D1	1087	LEU
4	D1	1095	ARG
4	D1	1106	LEU
4	D2	392	ASP
4	D2	405	LYS
4	D2	435	ARG
4	D2	706	ASN
4	D2	785	ASP
4	D2	977	GLU
4	D2	980	ARG
4	D2	1026	ARG

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Mol	Chain	Res	Type
4	D2	1056	ARG
4	D2	1058	ARG
4	D2	1075	LEU
4	D2	1076	MET
4	D2	1077	MET
4	D2	1087	LEU
4	D2	1095	ARG
4	D2	1106	LEU
4	D3	392	ASP
4	D3	405	LYS
4	D3	435	ARG
4	D3	706	ASN
4	D3	785	ASP
4	D3	977	GLU
4	D3	980	ARG
4	D3	1026	ARG
4	D3	1056	ARG
4	D3	1058	ARG
4	D3	1075	LEU
4	D3	1076	MET
4	D3	1077	MET
4	D3	1087	LEU
4	D3	1095	ARG
4	D3	1106	LEU
4	D4	392	ASP
4	D4	405	LYS
4	D4	435	ARG
4	D4	706	ASN
4	D4	785	ASP
4	D4	977	GLU
4	D4	980	ARG
4	D4	1026	ARG
4	D4	1056	ARG
4	D4	1058	ARG
4	D4	1075	LEU
4	D4	1076	MET
4	D4	1077	MET
4	D4	1087	LEU
4	D4	1095	ARG
4	D4	1106	LEU
5	E1	67	ASP
5	E2	67	ASP

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Mol	Chain	Res	Type
5	E3	67	ASP
5	E4	67	ASP
9	I1	722	PHE
9	I2	722	PHE
17	Q1	68	ILE
17	Q1	103	LYS
17	Q1	114	GLN
17	Q1	120	ILE
17	Q1	171	LYS
17	Q1	200	ILE
17	Q1	272	ASN
17	Q1	332	LYS
17	Q1	388	GLU
17	Q1	527	ILE
17	Q1	532	LYS
17	Q1	546	ILE
17	Q1	588	ILE
17	Q1	599	LYS
17	Q1	647	LYS
17	Q1	681	ILE
17	Q1	697	ASP
17	Q1	705	LYS
17	Q1	748	ILE
17	Q1	752	GLN
17	Q1	802	ILE
17	Q1	806	GLU
17	Q1	811	LEU
17	Q1	838	GLU
17	Q1	856	LYS
17	Q1	888	ILE
17	Q1	890	GLN
17	Q1	926	VAL
17	Q1	936	LYS
17	Q1	938	ASN
17	Q1	945	ARG
17	Q1	946	LYS
17	Q1	958	LYS
17	Q1	973	LYS
17	Q1	980	ILE
17	Q1	982	GLU
17	Q1	989	GLU
17	Q1	1034	LYS

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Mol	Chain	Res	Type
17	Q2	68	ILE
17	Q2	103	LYS
17	Q2	114	GLN
17	Q2	120	ILE
17	Q2	171	LYS
17	Q2	200	ILE
17	Q2	272	ASN
17	Q2	332	LYS
17	Q2	388	GLU
17	Q2	527	ILE
17	Q2	532	LYS
17	Q2	546	ILE
17	Q2	588	ILE
17	Q2	599	LYS
17	Q2	647	LYS
17	Q2	681	ILE
17	Q2	697	ASP
17	Q2	705	LYS
17	Q2	748	ILE
17	Q2	752	GLN
17	Q2	802	ILE
17	Q2	806	GLU
17	Q2	811	LEU
17	Q2	838	GLU
17	Q2	856	LYS
17	Q2	888	ILE
17	Q2	890	GLN
17	Q2	926	VAL
17	Q2	936	LYS
17	Q2	938	ASN
17	Q2	945	ARG
17	Q2	946	LYS
17	Q2	958	LYS
17	Q2	973	LYS
17	Q2	980	ILE
17	Q2	982	GLU
17	Q2	989	GLU
17	Q2	1034	LYS
18	R1	17	ASP
18	R1	26	GLN
18	R1	58	ASP
18	R1	71	GLU

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Mol	Chain	Res	Type
18	R1	77	LEU
18	R1	86	ASN
18	R1	88	ASP
18	R1	118	GLN
18	R1	141	THR
18	R1	166	THR
18	R1	237	ILE
18	R1	268	SER
18	R1	274	GLN
18	R1	284	SER
18	R1	343	ILE
18	R1	357	SER
18	R1	365	MET
18	R1	403	SER
18	R1	422	LEU
18	R1	431	ILE
18	R1	518	ILE
18	R1	536	ARG
18	R1	550	MET
18	R1	555	ILE
18	R1	631	ILE
19	R2	17	ASP
19	R2	26	GLN
19	R2	58	ASP
19	R2	71	GLU
19	R2	77	LEU
19	R2	86	ASN
19	R2	88	ASP
19	R2	118	GLN
19	R2	141	THR
19	R2	166	THR
19	R2	237	ILE
19	R2	268	SER
19	R2	274	GLN
19	R2	284	SER
19	R2	343	ILE
19	R2	357	SER
19	R2	365	MET
19	R2	403	SER
19	R2	422	LEU
19	R2	431	ILE
19	R2	518	ILE

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Mol	Chain	Res	Type
19	R2	536	ARG
19	R2	550	MET
19	R2	555	ILE
19	R2	631	ILE
20	S1	160	LEU
20	S1	175	ARG
20	S1	214	SER
20	S1	216	LEU
20	S1	225	MET
20	S1	234	LEU
20	S1	251	THR
20	S1	308	SER
20	S1	319	LEU
20	S1	328	SER
20	S1	336	LEU
20	S1	341	LEU
20	S1	346	THR
20	S1	349	CYS
20	S1	351	ILE
20	S1	368	GLU
20	S1	370	LEU
20	S1	371	PHE
20	S1	400	LEU
20	S1	402	SER
20	S1	406	SER
20	S1	408	LEU
20	S1	412	SER
20	S1	419	ILE
20	S1	440	ARG
20	S1	443	THR
20	S1	456	GLN
20	S1	464	ARG
20	S1	467	SER
20	S1	516	ILE
20	S1	522	SER
20	S1	524	ASN
20	S1	531	LEU
20	S1	539	PHE
20	S1	547	ARG
20	S2	160	LEU
20	S2	175	ARG
20	S2	214	SER

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Mol	Chain	Res	Type
20	S2	216	LEU
20	S2	225	MET
20	S2	234	LEU
20	S2	251	THR
20	S2	308	SER
20	S2	319	LEU
20	S2	328	SER
20	S2	336	LEU
20	S2	341	LEU
20	S2	346	THR
20	S2	349	CYS
20	S2	351	ILE
20	S2	368	GLU
20	S2	370	LEU
20	S2	371	PHE
20	S2	400	LEU
20	S2	402	SER
20	S2	406	SER
20	S2	408	LEU
20	S2	412	SER
20	S2	419	ILE
20	S2	440	ARG
20	S2	443	THR
20	S2	456	GLN
20	S2	464	ARG
20	S2	467	SER
20	S2	516	ILE
20	S2	522	SER
20	S2	524	ASN
20	S2	531	LEU
20	S2	539	PHE
20	S2	547	ARG
21	T1	9	ASN
21	T1	22	LYS
21	T1	43	HIS
21	T1	46	ILE
21	T1	47	ASP
21	T1	188	ASN
21	T1	225	VAL
21	T1	227	GLN
21	T1	229	ARG
21	T1	275	ASP

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Mol	Chain	Res	Type
21	T2	9	ASN
21	T2	22	LYS
21	T2	43	HIS
21	T2	46	ILE
21	T2	47	ASP
21	T2	225	VAL
21	T2	227	GLN
21	T2	229	ARG
21	T2	275	ASP
22	U1	80	THR
22	U1	138	ASP
22	U1	168	ASP
22	U1	226	ARG
22	U1	301	ASP
22	U1	313	ASN
22	U1	314	LEU
22	U1	334	THR
22	U2	80	THR
22	U2	138	ASP
22	U2	168	ASP
22	U2	226	ARG
22	U2	301	ASP
22	U2	313	ASN
22	U2	314	LEU
22	U2	334	THR
23	V1	51	MET
23	V1	239	VAL
23	V1	269	ASP
23	V1	324	ILE
23	V1	453	ASP
23	V1	488	LEU
23	V1	496	THR
23	V1	516	ASN
23	V1	539	TYR
23	V2	51	MET
23	V2	143	THR
23	V2	239	VAL
23	V2	269	ASP
23	V2	324	ILE
23	V2	453	ASP
23	V2	488	LEU
23	V2	496	THR

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Mol	Chain	Res	Type
23	V2	516	ASN
23	V2	539	TYR
24	W1	63	SER
24	W1	72	PHE
24	W1	127	SER
24	W1	172	GLN
24	W1	183	LEU
24	W1	209	THR
24	W1	230	HIS
24	W1	270	PHE
24	W1	280	LEU
24	W1	305	VAL
24	W1	314	THR
24	W1	335	VAL
24	W1	338	ARG
24	W1	370	ASP
24	W1	408	PHE
24	W1	422	ARG
24	W1	590	GLN
24	W1	600	ASP
24	W1	628	ARG
24	W1	638	VAL
24	W1	644	THR
24	W1	703	ASP
24	W1	706	ASN
24	W2	63	SER
24	W2	72	PHE
24	W2	127	SER
24	W2	172	GLN
24	W2	183	LEU
24	W2	209	THR
24	W2	230	HIS
24	W2	270	PHE
24	W2	280	LEU
24	W2	305	VAL
24	W2	314	THR
24	W2	335	VAL
24	W2	338	ARG
24	W2	370	ASP
24	W2	408	PHE
24	W2	422	ARG
24	W2	590	GLN

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Mol	Chain	Res	Type
24	W2	600	ASP
24	W2	628	ARG
24	W2	638	VAL
24	W2	644	THR
24	W2	703	ASP
24	W2	706	ASN
25	X1	638	ASP
25	X1	742	GLN
25	X1	778	LYS
25	X1	788	ASP
25	X2	638	ASP
25	X2	727	SER
25	X2	788	ASP
25	X2	797	LEU
25	X2	798	ASN
26	Y1	1117	TYR
26	Y1	1126	LEU
26	Y1	1239	PHE
26	Y1	1295	VAL
26	Y1	1308	GLU
26	Y1	1387	LYS
26	Y1	1388	GLU
26	Y1	1437	VAL
26	Y2	1117	TYR
26	Y2	1126	LEU
26	Y2	1212	ARG
26	Y2	1215	GLU
26	Y2	1239	PHE
26	Y2	1295	VAL
26	Y2	1308	GLU
26	Y2	1321	MET
26	Y2	1332	LYS
26	Y2	1333	ASP
26	Y2	1372	LYS
26	Y2	1388	GLU
26	Y2	1429	LYS
26	Y2	1437	VAL
26	Y2	1455	ASN
27	Z1	16	SER
27	Z1	23	PRO
27	Z1	46	TYR
27	Z1	91	MET

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Mol	Chain	Res	Type
27	Z1	101	GLU
27	Z1	120	GLU
27	Z1	123	PRO
27	Z1	124	LYS
27	Z1	129	LYS
27	Z1	135	LYS
27	Z1	161	GLU
27	Z1	175	LEU
27	Z1	265	SER
27	Z1	278	LEU
27	Z1	284	PRO
27	Z1	288	ASN
27	Z1	289	PRO
27	Z1	351	ILE
27	Z1	357	GLN
27	Z1	380	ILE
27	Z1	442	ASN
27	Z1	449	ASN
27	Z1	451	SER
27	Z1	452	SER
27	Z1	582	GLU
27	Z1	607	LYS
27	Z1	625	HIS
27	Z1	642	ASN
27	Z1	643	SER
27	Z1	647	SER
27	Z1	661	GLU
27	Z1	678	ASN
27	Z1	680	TRP
27	Z2	8	SER
27	Z2	16	SER
27	Z2	24	ARG
27	Z2	46	TYR
27	Z2	91	MET
27	Z2	101	GLU
27	Z2	129	LYS
27	Z2	135	LYS
27	Z2	161	GLU
27	Z2	175	LEU
27	Z2	265	SER
27	Z2	278	LEU
27	Z2	284	PRO

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Mol	Chain	Res	Type
27	Z2	288	ASN
27	Z2	289	PRO
27	Z2	351	ILE
27	Z2	357	GLN
27	Z2	380	ILE
27	Z2	442	ASN
27	Z2	449	ASN
27	Z2	522	GLU
27	Z2	582	GLU
27	Z2	607	LYS
27	Z2	611	GLN
27	Z2	642	ASN
27	Z2	643	SER
27	Z2	647	SER
27	Z2	661	GLU
27	Z2	669	THR
28	a1	968	GLU
28	a1	1049	VAL
28	a1	1079	ARG
28	a1	1098	ASP
28	a2	968	GLU
28	a2	1049	VAL
28	a2	1079	ARG
28	a2	1098	ASP
29	b1	17	THR
29	b1	52	LYS
29	b1	55	ASN
29	b1	76	PHE
29	b2	7	SER
29	b2	8	THR
29	b2	17	THR
29	b2	52	LYS
29	b2	76	PHE
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	1116	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (249) such sidechains are listed below:

Mol	Chain	Res	Type
1	A2	1233	GLN
1	A2	1284	ASN
1	A4	485	ASN
1	A4	521	ASN
1	A4	923	GLN
1	A4	929	ASN
1	A4	1027	HIS
4	D1	515	ASN
4	D1	572	GLN
4	D1	716	GLN
4	D1	760	ASN
4	D1	973	GLN
4	D1	1103	HIS
4	D2	572	GLN
4	D2	716	GLN
4	D2	760	ASN
4	D2	1103	HIS
4	D3	572	GLN
4	D3	716	GLN
4	D3	760	ASN
4	D3	969	HIS
4	D3	973	GLN
4	D3	1103	HIS
4	D4	572	GLN
4	D4	716	GLN
4	D4	760	ASN
4	D4	1103	HIS
6	F1	139	GLN
6	F1	1046	HIS
6	F2	139	GLN
6	F2	1049	GLN
7	G2	254	ASN
9	I1	977	ASN
9	I1	1182	GLN
9	I1	1304	ASN
9	I1	1344	GLN
9	I1	1459	ASN
9	I1	1667	GLN
9	I2	887	GLN
9	I2	914	ASN
9	I2	982	GLN
9	I2	1063	GLN
9	I2	1182	GLN

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Mol	Chain	Res	Type
9	I2	1199	GLN
13	M1	534	GLN
14	N1	411	GLN
14	N2	411	GLN
15	O1	265	ASN
17	Q1	114	GLN
17	Q1	183	ASN
17	Q1	264	ASN
17	Q1	272	ASN
17	Q1	296	GLN
17	Q1	321	GLN
17	Q1	340	GLN
17	Q1	403	GLN
17	Q1	428	GLN
17	Q1	430	ASN
17	Q1	476	GLN
17	Q1	497	HIS
17	Q1	529	HIS
17	Q1	540	HIS
17	Q1	556	HIS
17	Q1	566	ASN
17	Q1	576	ASN
17	Q1	611	ASN
17	Q1	625	GLN
17	Q1	626	ASN
17	Q1	637	ASN
17	Q1	651	ASN
17	Q1	662	ASN
17	Q1	668	ASN
17	Q1	752	GLN
17	Q1	761	ASN
17	Q1	819	GLN
17	Q1	876	GLN
17	Q1	890	GLN
17	Q1	905	ASN
17	Q1	923	HIS
17	Q1	938	ASN
17	Q1	948	GLN
17	Q1	1073	ASN
17	Q1	1074	ASN
17	Q1	1124	ASN
17	Q2	111	HIS

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Mol	Chain	Res	Type
17	Q2	114	GLN
17	Q2	183	ASN
17	Q2	264	ASN
17	Q2	272	ASN
17	Q2	296	GLN
17	Q2	321	GLN
17	Q2	340	GLN
17	Q2	403	GLN
17	Q2	428	GLN
17	Q2	430	ASN
17	Q2	476	GLN
17	Q2	497	HIS
17	Q2	529	HIS
17	Q2	540	HIS
17	Q2	556	HIS
17	Q2	576	ASN
17	Q2	611	ASN
17	Q2	625	GLN
17	Q2	626	ASN
17	Q2	637	ASN
17	Q2	651	ASN
17	Q2	662	ASN
17	Q2	668	ASN
17	Q2	752	GLN
17	Q2	761	ASN
17	Q2	819	GLN
17	Q2	876	GLN
17	Q2	890	GLN
17	Q2	905	ASN
17	Q2	923	HIS
17	Q2	938	ASN
17	Q2	948	GLN
17	Q2	1073	ASN
17	Q2	1074	ASN
17	Q2	1124	ASN
18	R1	97	HIS
18	R1	278	GLN
18	R1	466	ASN
18	R1	589	HIS
18	R1	621	GLN
19	R2	97	HIS
19	R2	278	GLN

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Mol	Chain	Res	Type
19	R2	589	HIS
19	R2	621	GLN
20	S1	210	GLN
20	S1	329	ASN
20	S1	542	GLN
20	S2	210	GLN
20	S2	329	ASN
20	S2	542	GLN
21	T1	9	ASN
21	T1	43	HIS
21	T1	63	HIS
21	T1	86	ASN
21	T2	9	ASN
21	T2	43	HIS
21	T2	63	HIS
22	U1	300	HIS
22	U1	313	ASN
22	U2	313	ASN
23	V2	467	ASN
24	W1	255	GLN
24	W1	284	ASN
24	W1	295	ASN
24	W1	350	ASN
24	W1	514	ASN
24	W1	575	ASN
24	W1	588	ASN
24	W1	632	GLN
24	W1	666	ASN
24	W2	255	GLN
24	W2	284	ASN
24	W2	295	ASN
24	W2	350	ASN
24	W2	514	ASN
24	W2	575	ASN
24	W2	588	ASN
24	W2	632	GLN
25	X1	647	GLN
25	X1	667	GLN
25	X1	688	HIS
25	X1	742	GLN
25	X1	754	ASN
25	X1	756	ASN

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Mol	Chain	Res	Type
25	X1	777	ASN
25	X1	792	GLN
25	X2	647	GLN
25	X2	667	GLN
25	X2	695	GLN
25	X2	754	ASN
25	X2	756	ASN
25	X2	770	ASN
25	X2	777	ASN
25	X2	790	ASN
26	Y1	1271	ASN
26	Y1	1289	GLN
26	Y1	1305	GLN
26	Y1	1358	HIS
26	Y1	1410	GLN
26	Y2	1123	GLN
26	Y2	1231	ASN
26	Y2	1271	ASN
26	Y2	1289	GLN
26	Y2	1305	GLN
26	Y2	1337	HIS
26	Y2	1358	HIS
26	Y2	1410	GLN
27	Z1	14	GLN
27	Z1	41	ASN
27	Z1	47	ASN
27	Z1	55	HIS
27	Z1	84	ASN
27	Z1	170	ASN
27	Z1	248	ASN
27	Z1	254	GLN
27	Z1	260	HIS
27	Z1	273	GLN
27	Z1	312	ASN
27	Z1	346	ASN
27	Z1	383	GLN
27	Z1	442	ASN
27	Z1	524	GLN
27	Z1	550	HIS
27	Z1	584	GLN
27	Z1	591	GLN
27	Z1	611	GLN

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Mol	Chain	Res	Type
27	Z1	640	GLN
27	Z1	646	HIS
27	Z2	14	GLN
27	Z2	41	ASN
27	Z2	47	ASN
27	Z2	55	HIS
27	Z2	84	ASN
27	Z2	170	ASN
27	Z2	248	ASN
27	Z2	254	GLN
27	Z2	260	HIS
27	Z2	312	ASN
27	Z2	346	ASN
27	Z2	383	GLN
27	Z2	434	GLN
27	Z2	442	ASN
27	Z2	449	ASN
27	Z2	524	GLN
27	Z2	537	GLN
27	Z2	550	HIS
27	Z2	584	GLN
27	Z2	591	GLN
27	Z2	640	GLN
27	Z2	642	ASN
28	a1	967	ASN
28	a1	969	ASN
28	a1	1074	HIS
28	a1	1075	GLN
28	a1	1087	ASN
28	a2	967	ASN
28	a2	969	ASN
28	a2	1074	HIS
28	a2	1075	GLN
28	a2	1087	ASN
29	b1	48	GLN
29	b1	71	HIS
29	b2	58	HIS
29	b2	71	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
18	R1	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R1	436:LEU	C	437:ASN	N	16.70

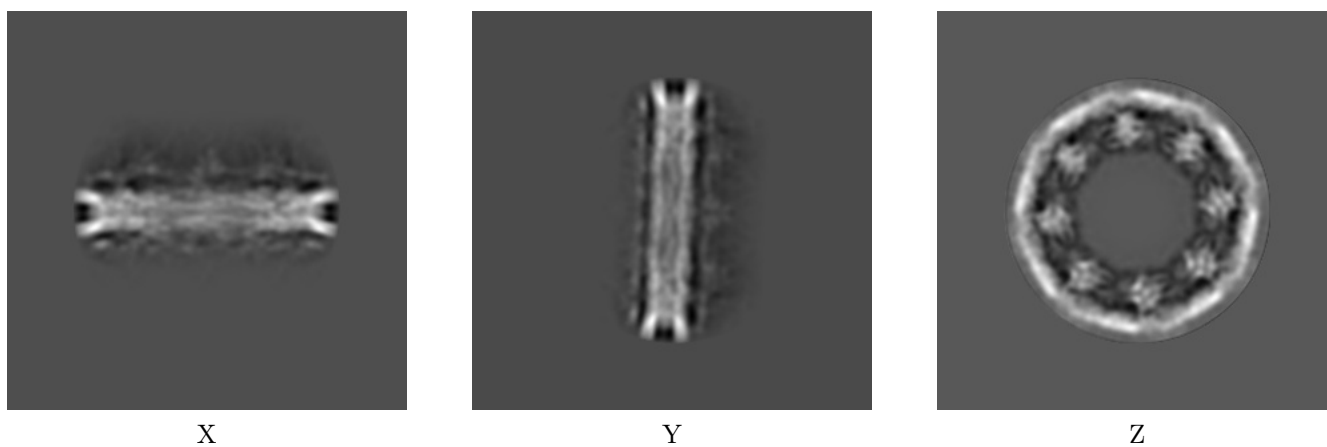
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10198. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

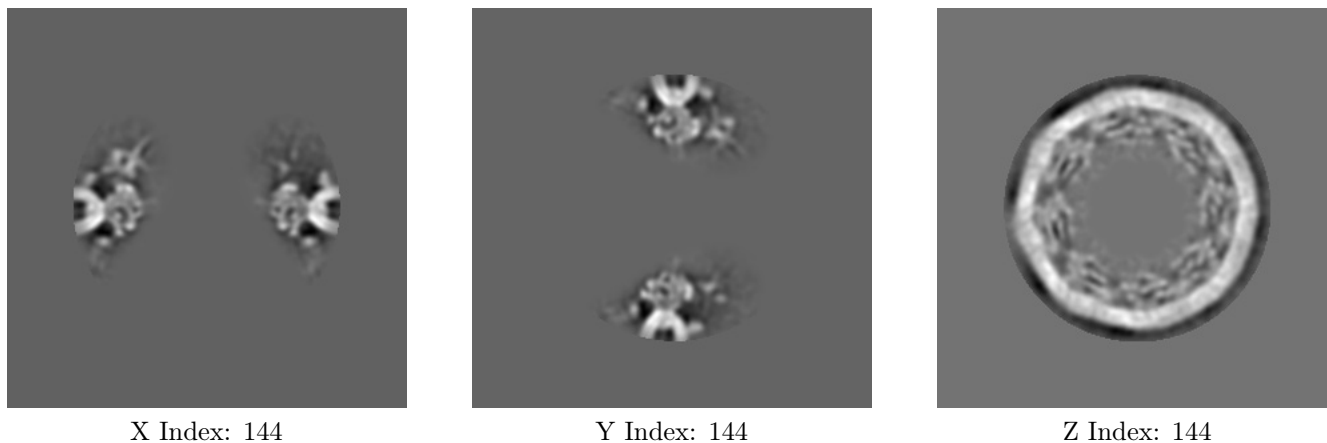
6.1.1 Primary map



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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 144

Y Index: 144

Z Index: 144

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

6.3 Largest variance slices [i](#)

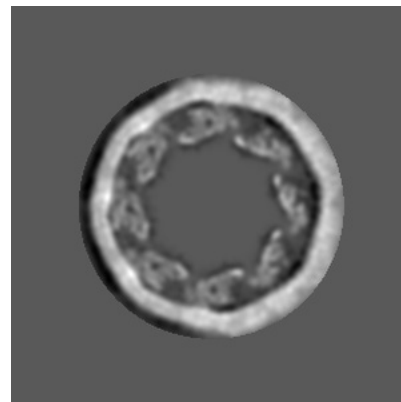
6.3.1 Primary map



X Index: 67



Y Index: 219

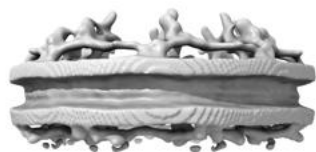


Z Index: 134

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

6.4 Orthogonal surface views [i](#)

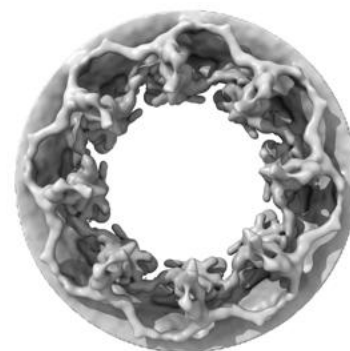
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0606. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

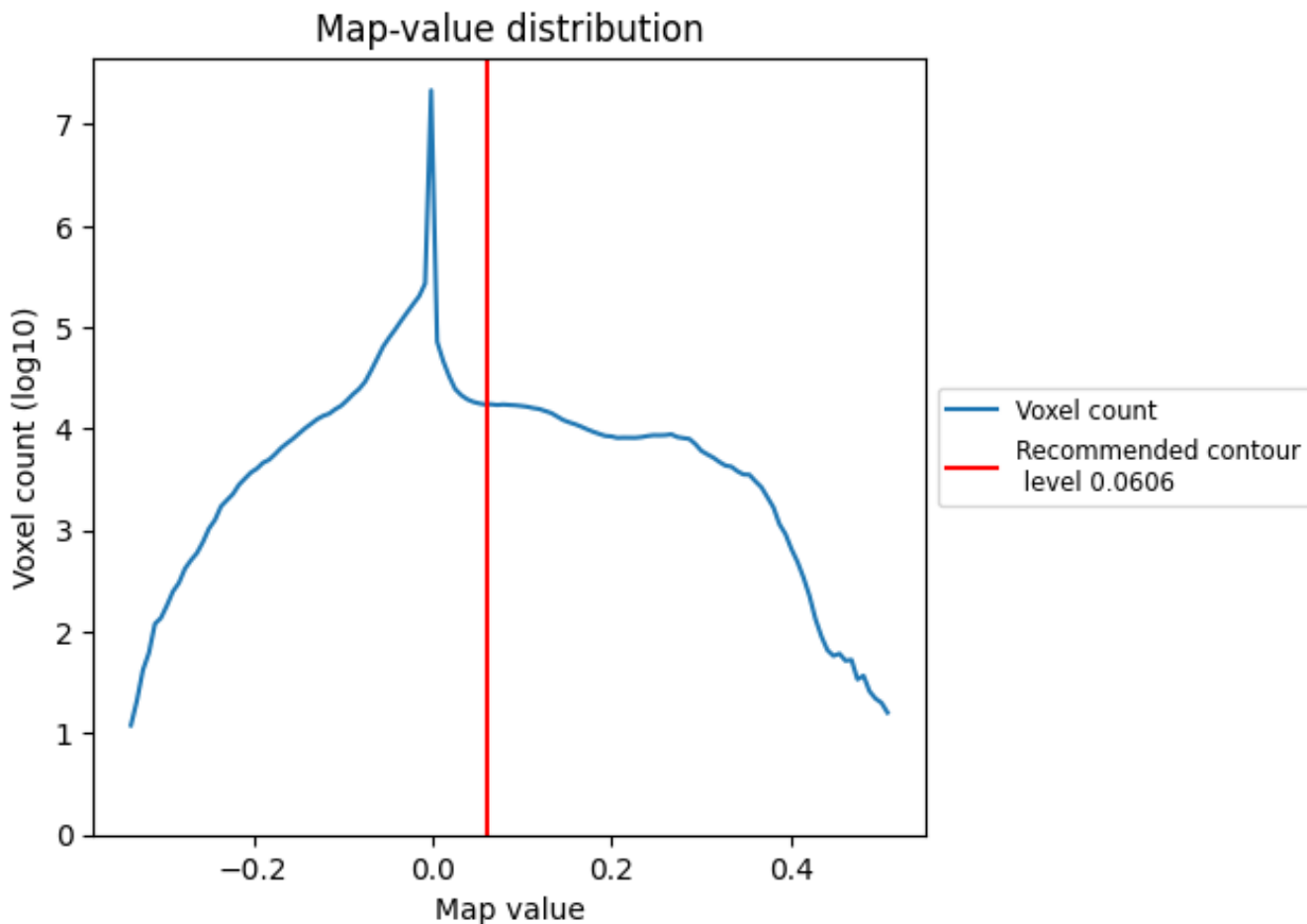
6.5 Mask visualisation

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

7 Map analysis [i](#)

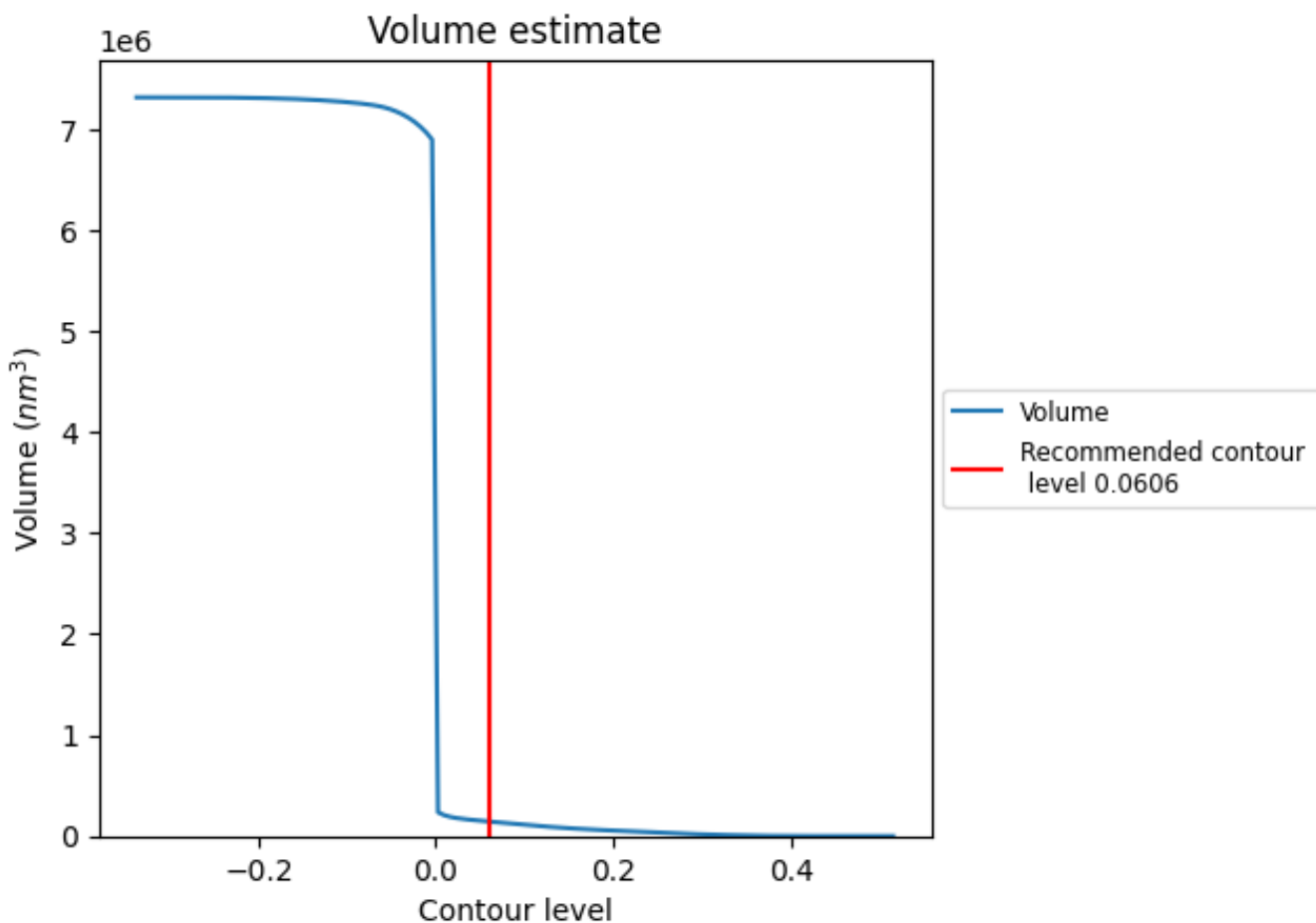
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

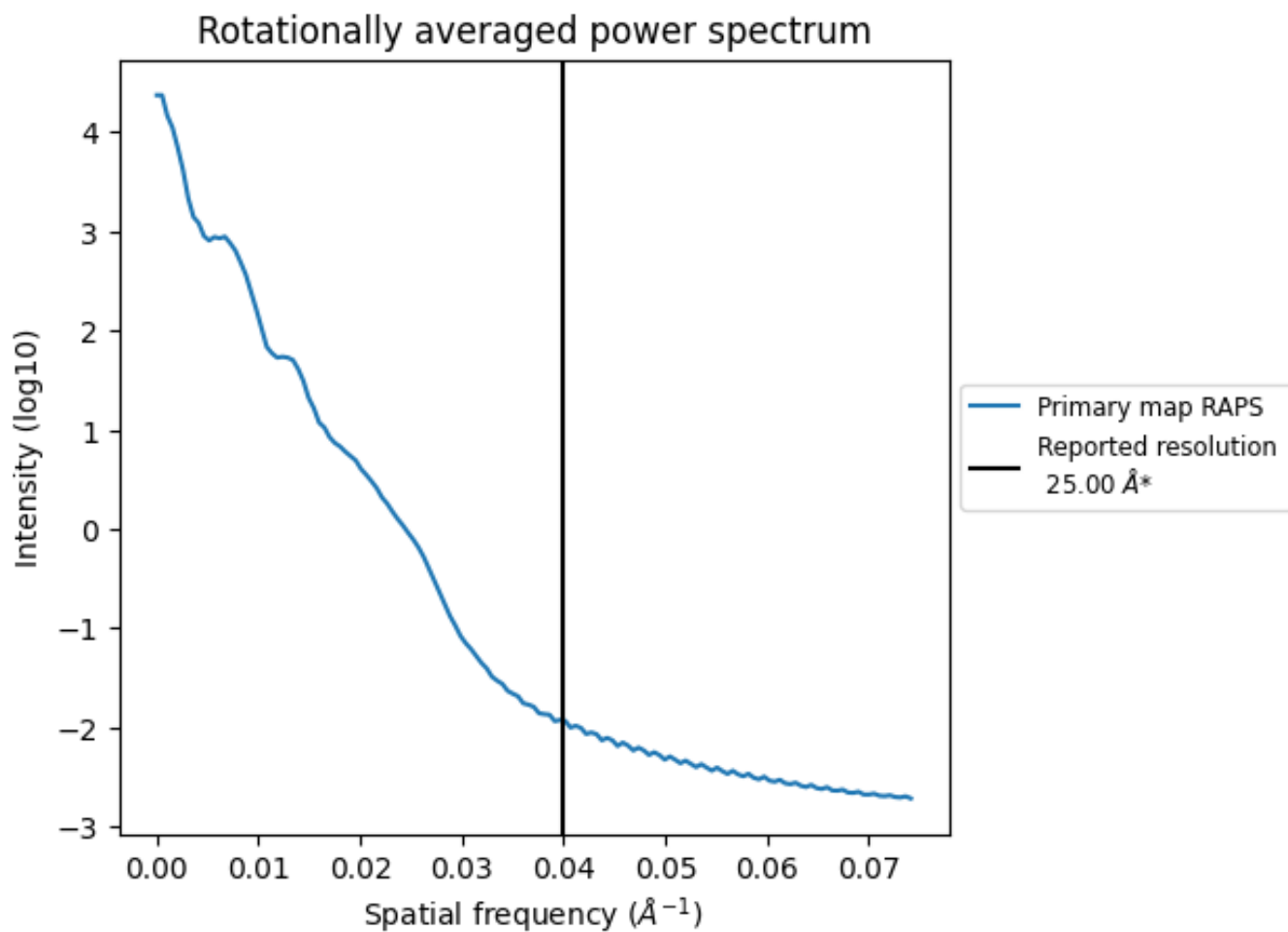
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 143354 nm^3 ; this corresponds to an approximate mass of 129496 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 0.040 Å⁻¹

8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

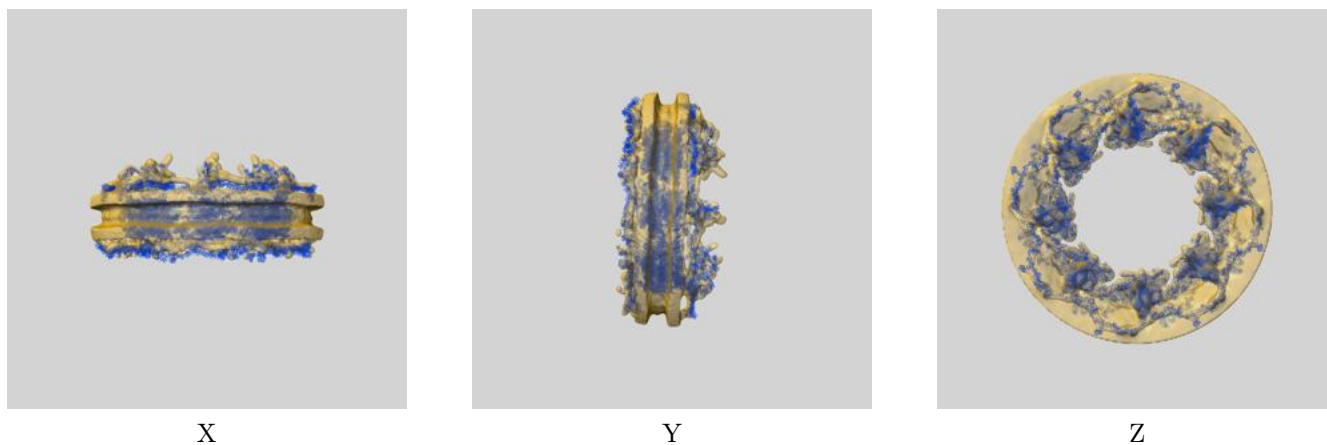
This section contains information regarding the fit between EMDB map EMD-10198 and PDB model 7TBI. Per-residue inclusion information can be found in section 3 on page 13.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

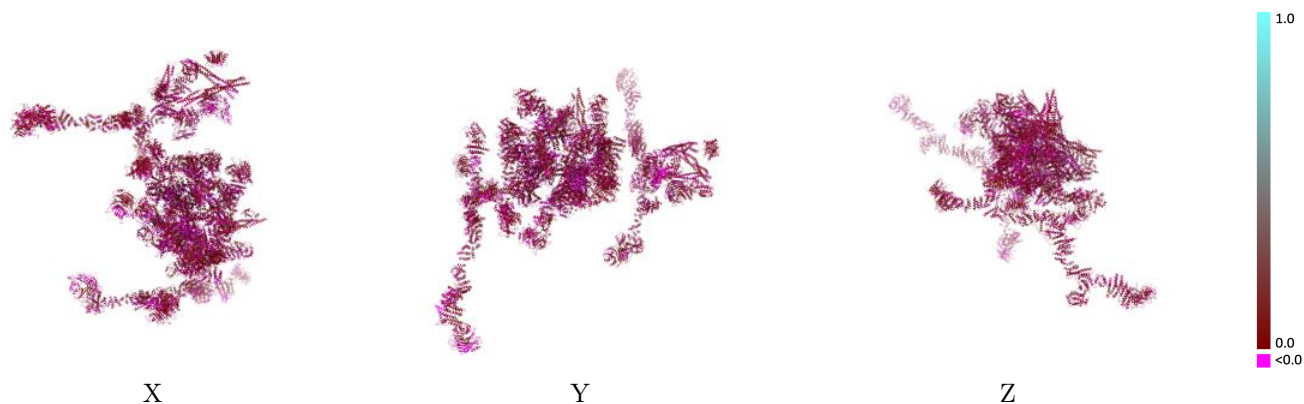


9.1.2 Map-model assembly overlay [i](#)



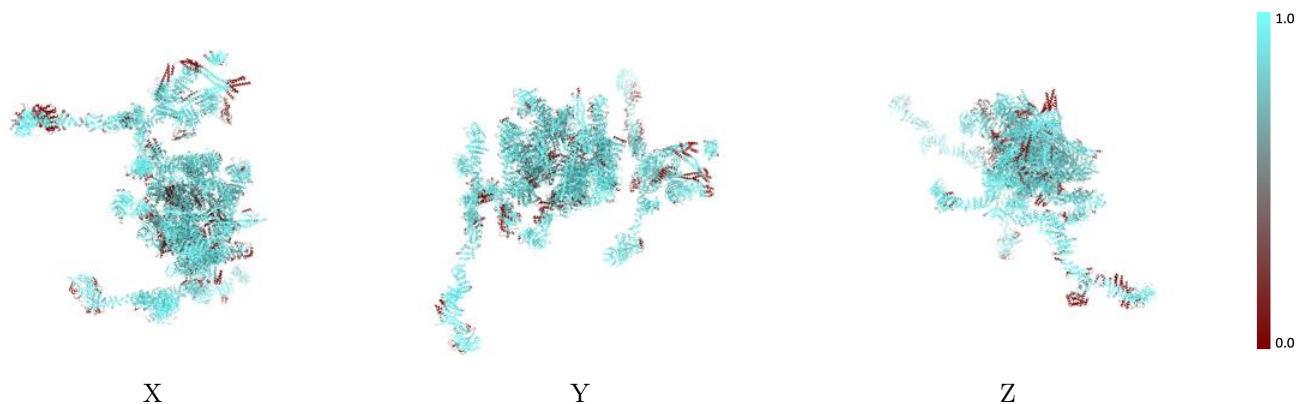
The images above show the 3D surface view of the map at the recommended contour level 0.0606 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



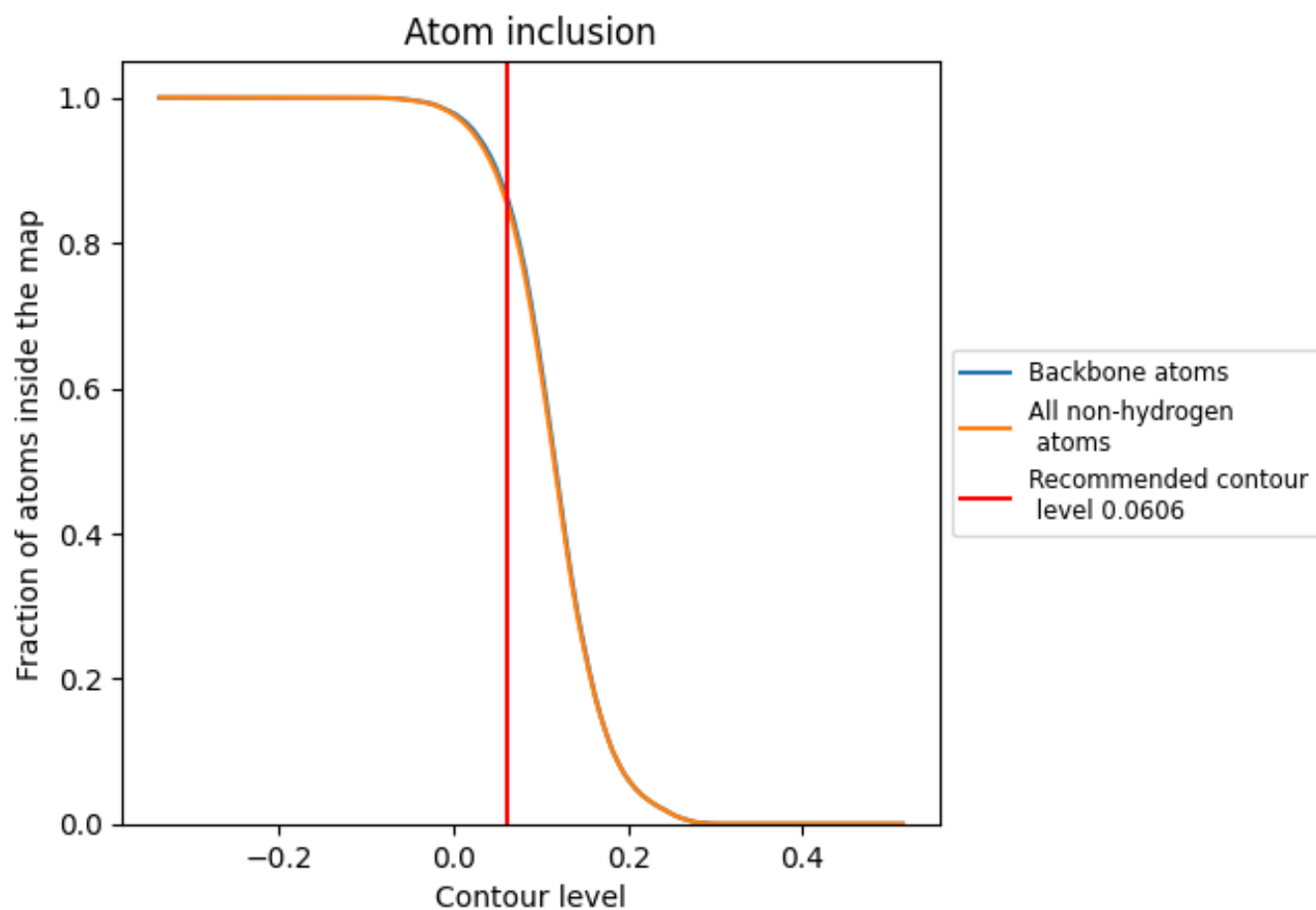
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0606).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 86% 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 (0.0606) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8571	 0.0390
A1	 0.8768	 0.0350
A2	 0.8109	 0.0310
A3	 0.8042	 0.0280
A4	 0.8800	 0.0400
B1	 0.3761	 -0.0070
B2	 0.9817	 -0.0050
B3	 0.9450	 0.0050
B4	 0.5138	 0.0150
C1	 0.4338	 0.0240
C2	 0.1250	 -0.0020
C3	 0.0074	 -0.0530
C4	 1.0000	 0.0600
D1	 0.7618	 0.0380
D2	 0.8527	 0.0480
D3	 0.8241	 0.0290
D4	 0.6823	 0.0380
E1	 0.0662	 -0.0330
E2	 0.4706	 -0.0120
E3	 0.5515	 0.0210
E4	 0.6765	 0.0440
F1	 0.9806	 0.0410
F2	 0.9657	 0.0410
G1	 0.9813	 0.0230
G2	 0.9977	 0.0280
H1	 1.0000	 0.0400
H2	 1.0000	 0.0300
I1	 0.9384	 0.0370
I2	 0.8960	 0.0340
J1	 0.8540	 0.0140
J2	 0.6288	 0.0080
K1	 1.0000	 0.0010
K2	 1.0000	 0.0450
L1	 1.0000	 0.0910
L2	 1.0000	 0.0070



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Chain	Atom inclusion	Q-score
M1	 0.9889	 0.0540
M2	 0.8826	 0.0570
M3	 0.9799	 0.0540
M4	 0.8447	 0.0490
N1	 0.9235	 0.0390
N2	 0.8144	 0.0360
N3	 0.9755	 0.0390
N4	 0.8542	 0.0530
O1	 0.8947	 0.0320
O2	 0.7753	 0.0340
O3	 0.9310	 0.0500
O4	 0.7286	 0.0400
P1	 1.0000	 0.0570
P2	 1.0000	 0.0950
P3	 1.0000	 -0.0310
P4	 1.0000	 0.1040
Q1	 0.5909	 0.0440
Q2	 0.8523	 0.0390
R1	 0.8406	 0.0590
R2	 0.9020	 0.0550
S1	 0.9378	 0.0560
S2	 0.8858	 0.0500
T1	 0.9505	 0.0470
T2	 0.9618	 0.0390
U1	 0.9778	 0.0500
U2	 0.9586	 0.0270
V1	 0.8807	 0.0490
V2	 0.9832	 0.0340
W1	 0.9349	 0.0440
W2	 0.7669	 0.0310
X1	 0.5263	 0.0350
X2	 0.8764	 0.0490
Y1	 0.6060	 0.0240
Y2	 0.8351	 0.0290
Z1	 0.8904	 0.0340
Z2	 0.8783	 0.0330
a1	 0.1183	 -0.0260
a2	 0.2918	 0.0050
b1	 0.8419	 0.0560
b2	 0.9122	 0.0540