



Full wwPDB EM Validation Report ⓘ

Sep 23, 2025 – 05:18 pm BST

PDB ID : 8BX8 / pdb_00008bx8
EMDB ID : EMD-16312
Title : In situ outer dynein arm from *Chlamydomonas reinhardtii* in the post-power stroke state
Authors : Zimmermann, N.E.L.; Noga, A.; Obbineni, J.M.; Ishikawa, T.
Deposited on : 2022-12-08
Resolution : 30.30 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:

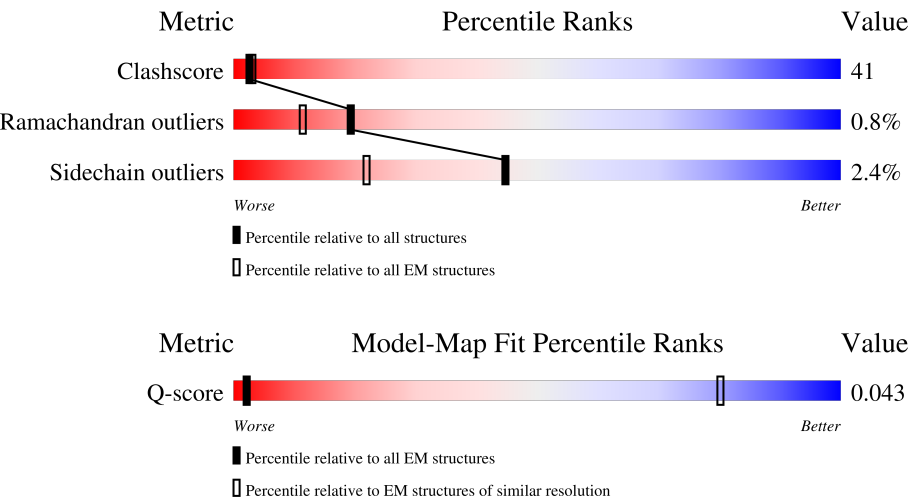
EMDB validation analysis : 0.0.1.dev129
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.46

1 Overall quality at a glance i

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

The reported resolution of this entry is 30.30 Å.

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



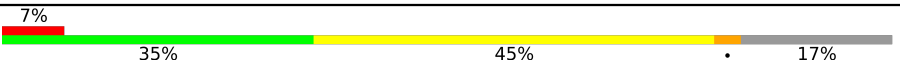
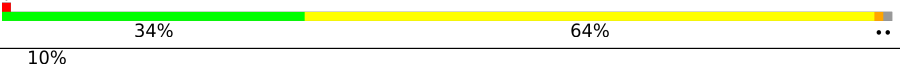
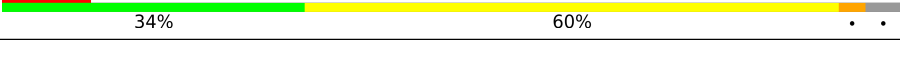
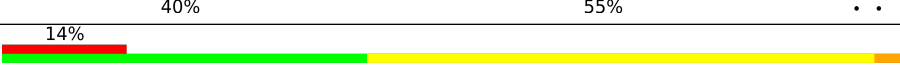
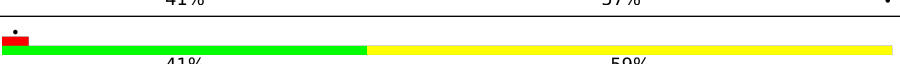
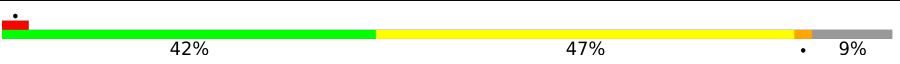
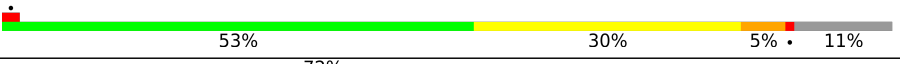
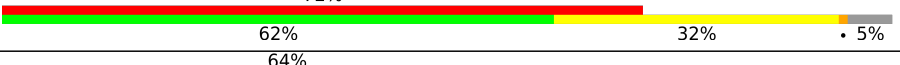
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	10 (30.00 - 30.60)

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	A	4620	16% 71% 24% • •
2	B	4595	13% 71% 26% • •
3	C	4168	18% 74% 17% • 5%
4	D	657	8% 36% 49% • 12%

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Mol	Chain	Length	Quality of chain
5	E	670	
6	F	133	
7	G	159	
8	H	92	
9	I	110	
10	J	95	
11	K	93	
12	L	111	
13	M	87	
14	N	117	
15	O	132	
16	P	122	
17	Q	202	
18	R	160	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	ADP	A	4701	-	-	X	-
19	ADP	A	4703	-	-	X	-
19	ADP	B	5405	-	-	X	-
19	ADP	C	4305	-	-	X	-
19	ADP	C	4306	-	-	X	-
20	ATP	A	4702	-	-	X	-
20	ATP	B	5403	-	-	X	-
21	MG	A	4705	-	-	X	-

2 Entry composition [i](#)

There are 21 unique types of molecules in this entry. The entry contains 119530 atoms, of which 156 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 Dynein heavy chain, outer arm protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	4453	Total	C	N	O	S	0	0
			33975	21575	5801	6441	158		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4488	LYS	GLY	conflict	UNP Q22A67

- Molecule 2 is a protein called Outer arm dynein beta heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	4519	Total	C	N	O	S	0	0
			34713	22055	5945	6563	150		

- Molecule 3 is a protein called Dynein-1-alpha heavy chain, flagellar inner arm I1 complex protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	3947	Total	C	N	O	S	0	0
			30427	19395	5159	5724	149		

- Molecule 4 is a protein called Dynein intermediate chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	579	Total	C	N	O	S	0	0
			4680	2975	791	883	31		

- Molecule 5 is a protein called Flagellar outer dynein arm intermediate protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	555	Total	C	N	O	S	0	0
			4440	2798	762	858	22		

- Molecule 6 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	128	Total	C	N	O	S	0	0
			996	625	176	193	2		

- Molecule 7 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	151	Total	C	N	O	S	0	0
			1024	636	184	203	1		

- Molecule 8 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	91	Total	C	N	O	S	0	0
			750	483	124	139	4		

- Molecule 9 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	106	Total	C	N	O	S	0	0
			827	526	134	161	6		

- Molecule 10 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	95	Total	C	N	O	S	0	0
			807	527	135	140	5		

- Molecule 11 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	90	Total	C	N	O	S	0	0
			754	489	124	137	4		

- Molecule 12 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	111	Total	C	N	O	S	0	0
			855	555	145	152	3		

- Molecule 13 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	87	Total	C	N	O	S	0	0
			735	477	123	130	5		

- Molecule 14 is a protein called Dynein light chain tctex-type 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	114	Total	C	N	O	S	0	0
			852	542	142	165	3		

- Molecule 15 is a protein called Dynein light chain 2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	120	Total	C	N	O	S	0	0
			994	639	173	179	3		

- Molecule 16 is a protein called Thioredoxin.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P	109	Total	C	N	O	0	0
			541	323	109	109		

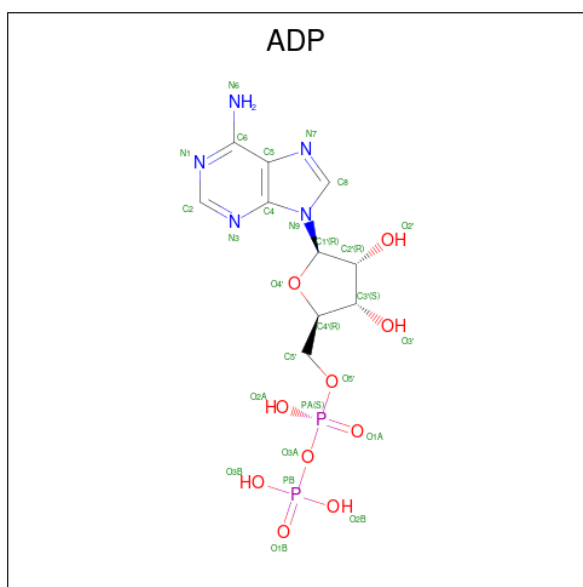
- Molecule 17 is a protein called Dynein light chain 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	Q	191	Total	C	N	O	0	0
			1001	607	202	192		

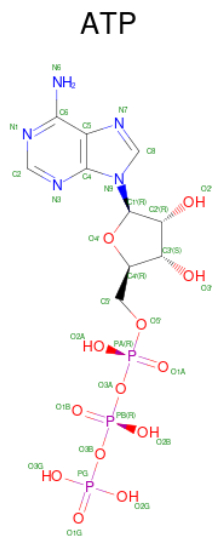
- Molecule 18 is a protein called Dynein light chain 4A.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	150	Total	C	H	N	O	0	0
			895	439	156	150	150		

- Molecule 19 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



- Molecule 20 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



Mol	Chain	Residues	Atoms					AltConf
20	A	1	Total 31	C 10	N 5	O 13	P 3	0
20	B	1	Total 31	C 10	N 5	O 13	P 3	0
20	C	1	Total 31	C 10	N 5	O 13	P 3	0

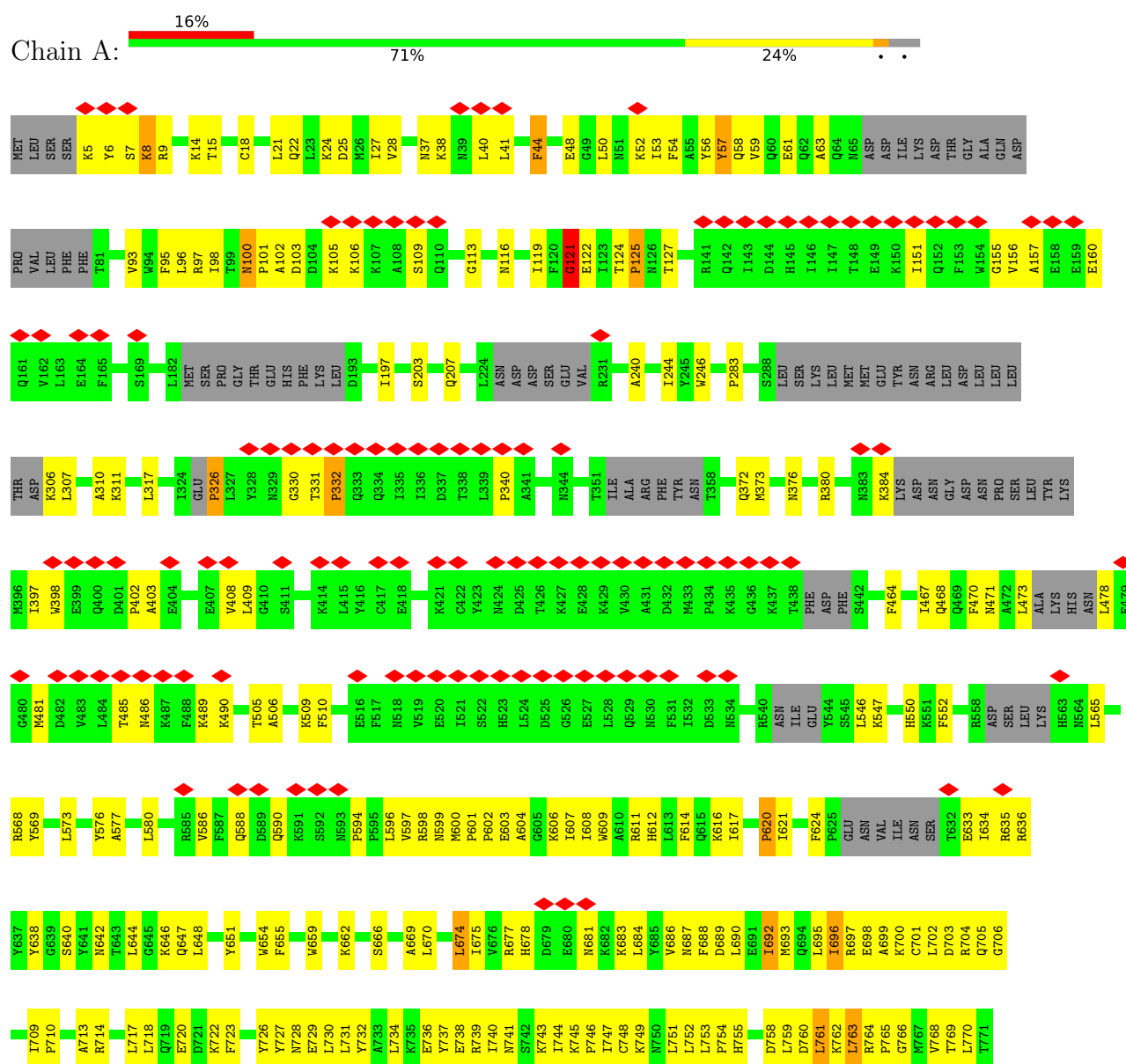
- Molecule 21 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
21	A	3	Total Mg 3 3	0
21	B	3	Total Mg 3 3	0
21	C	3	Total Mg 3 3	0

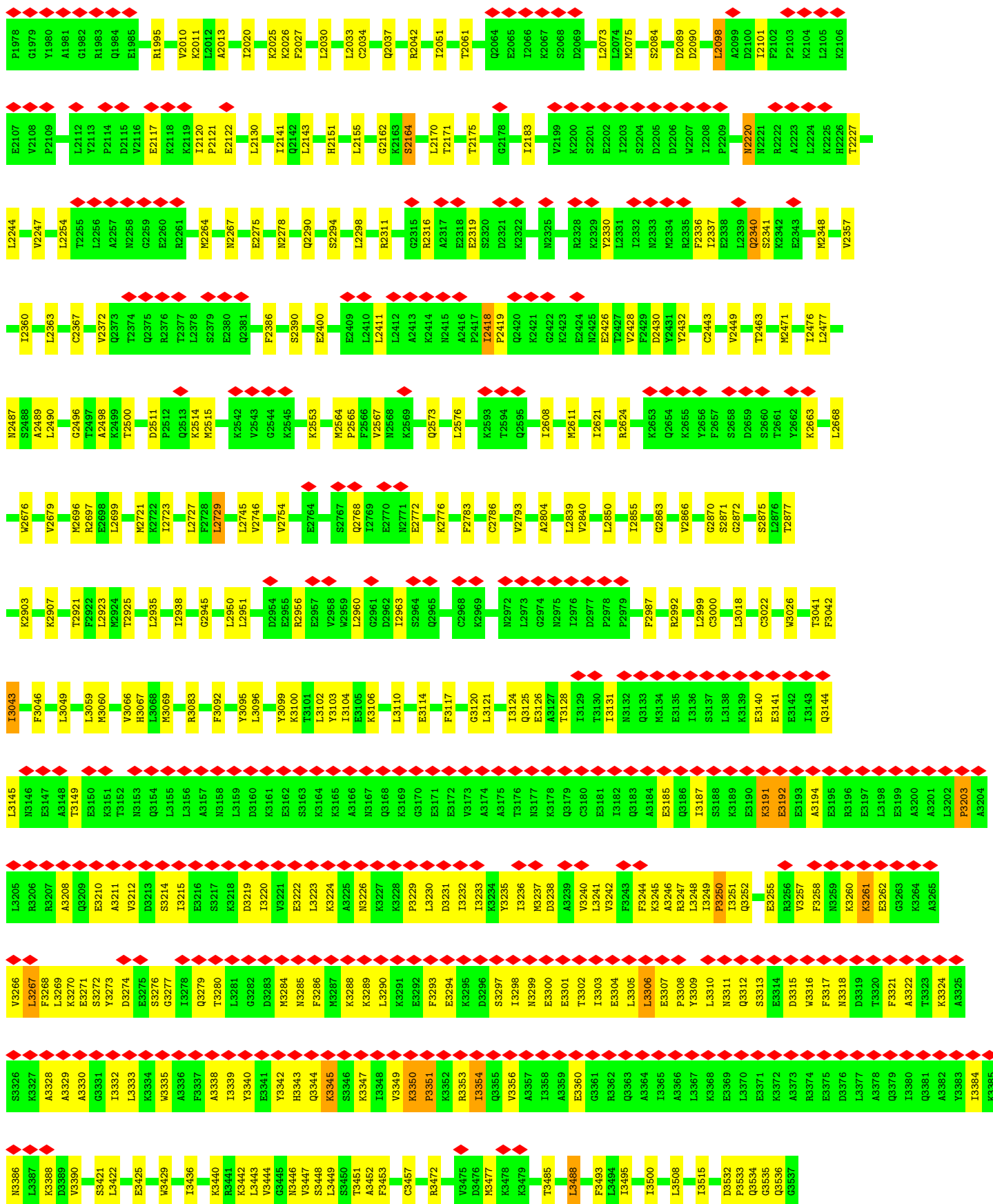
3 Residue-property plots

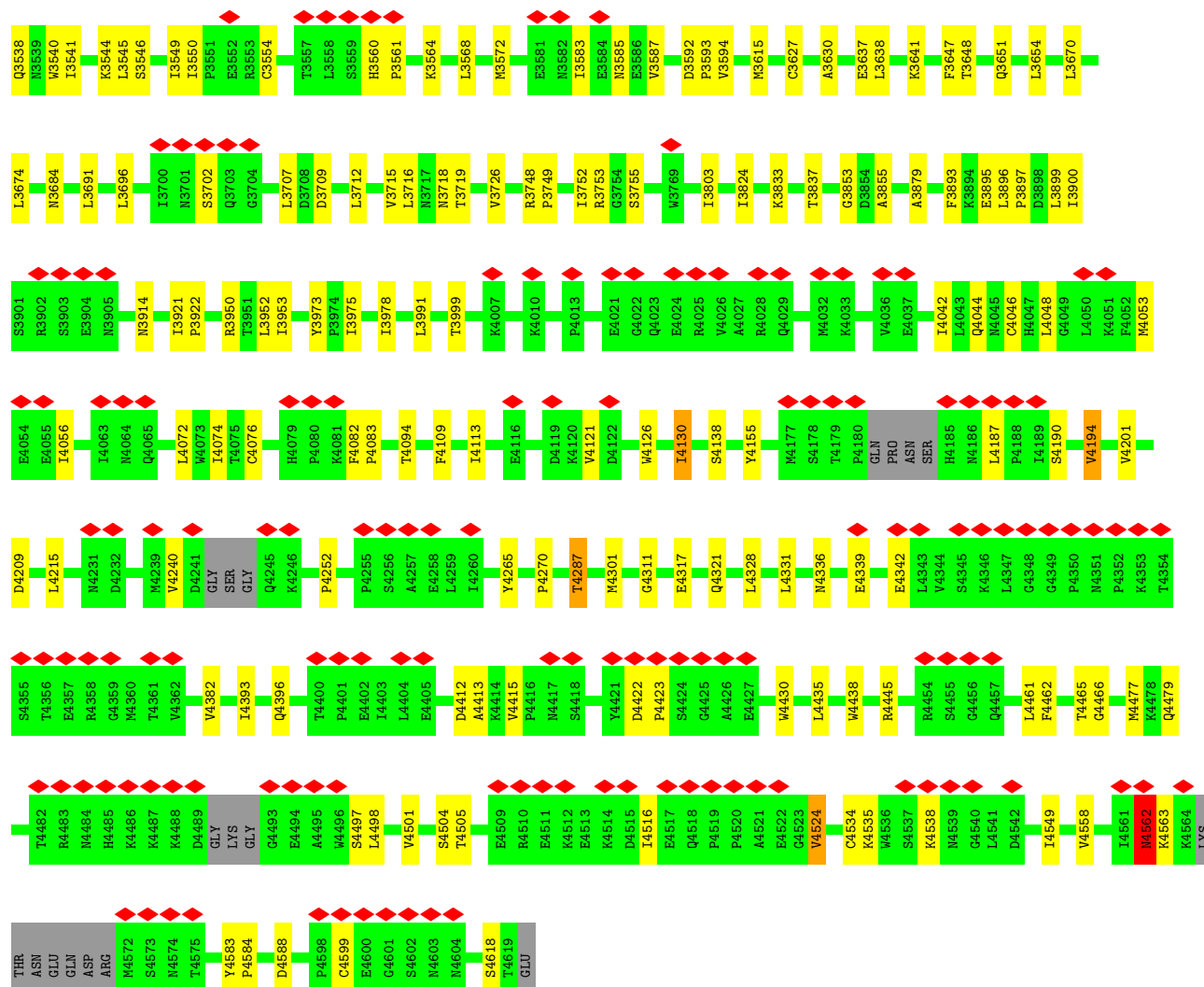
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Dynein heavy chain, outer arm protein

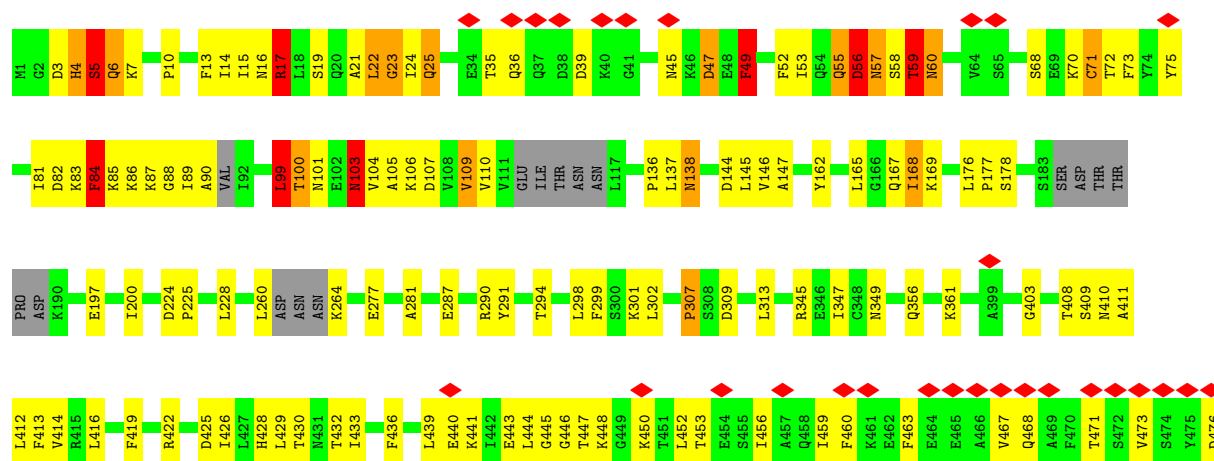


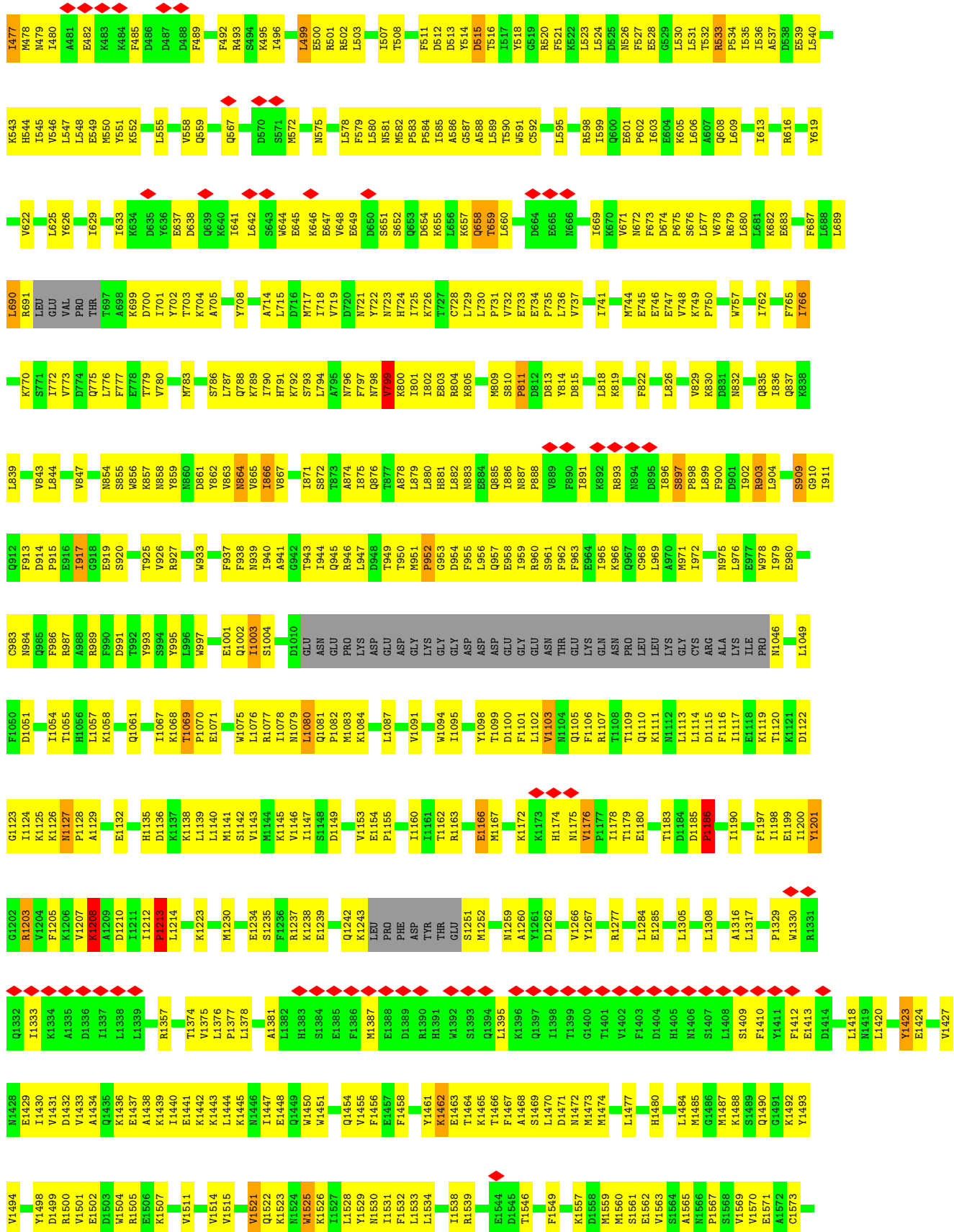
G1868	A1749	T1835	K1571	M1505	I1436	LYS	I1207	V1135	G1045	D973	K910	I841	W772
G1872	M1750	K1636	D1572	D1506	W1440	ASP	Y1208	M1136	M1047	Q974	Y911	K844	T773
A1874	D1751	F1573	F1573	T1507	N1441	L1323	K1210	E1137	Y1048	GLN	R912	T845	S774
G1875	I1752	L1574	L1574	D1509	D1442	D1329	E1211	L1138	Q1061	LYS	CYS	D846	I777
E1880	K1758	P1575	P1575	M1510	M1443	S1338	E1212	L1139	L1052	ASP	GLY	F847	Y780
L1889	L1764	L1577	L1577	W1511	F1444	Q1348	I1216	E1140	E1059	SER	LYS	L848	L761
F1892	L1772	R1578	R1578	W1512	F1445	Q1348	F1219	E1144	E1060	ASP	ILE	T849	
T1896	L1779	R1579	R1579	K1513	F1446	Q1348	F1219	E1145	E1061	LYS	PRO	K851	H785
M1897	E1770	L1580	L1580	Q1514	F1447	Q1348	F1219	E1146	E1062	GLY	ALA	G786	G787
C1898	D1771	L1581	L1581	Q1515	G1448	Q1348	F1219	Q1147	E1063	ASN	THR	L788	L788
S1899	L1772	E1582	E1582	K1516	W1449	SER	W1223	E1148	F985	Y986	LEU	K789	K789
D1900	L1772	Q1585	Q1585	W1518	W1450	LEU	Y1230	I1149	P1067		LEU	K790	K790
Q1901	L1772	W1519	W1519	K1451	L1517	LYS	Y1230	I1149	T1067		LEU	L791	L791
H1902	L1772	M1586	M1586	K1452	L1517	LYS	Y1230	I1149	R857		LEU	L791	L791
R1903	L1772	K1587	K1587	R1453	L1517	LYS	Y1230	I1149	A858		LEU	L791	L791
K1909	G1774	M1587	M1587	ASP	W1450	PRO	M1233	M1151	V996		ASN	V989	E792
I1910	A1775	L1588	L1588	VAL	W1450	PRO	G1234	K1152	K997		ASN	V989	E792
L1914	A1775	E1589	E1589	VAL	W1450	PRO	Y1235	F1153	D992		LYS	D861	E793
V1915	R1778	A1590	A1590	CYS	W1450	PRO	ME1	M1154	G1072		PRO	L862	L794
S1917	T1779	W1524	W1524	M1458	W1450	PRO	VAL	P1155	G1072		PRO	L862	L794
G1918	K1780	F1525	F1525	L1459	W1450	PRO	GLY	V1156	M1074		PRO	L862	L794
L1919	T1786	G1528	G1528	N1460	W1450	PRO	ILE	E1158	L1076		PRO	L862	L794
V1915	K1596	D1529	D1529	G1461	W1450	PRO	SER	M1159	M1077		PRO	L862	L794
S1917	R1596	M1534	M1534	V1464	W1450	PRO	ALA	Y1160	T1078		PRO	L862	L794
G1918	K1597	P1535	P1535	V1464	W1450	PRO	ALA	S1161	T1078		PRO	L862	L794
L1919	F1599	L1536	L1536	L1467	W1450	PRO	ALA	L1162	I1081		PRO	L862	L794
K1801	P1600	E1537	E1537	L1468	W1450	PRO	ALA	D1164	C1082		PRO	L862	L794
D1802	R1601	A1538	A1538	L1471	W1450	PRO	ALA	N1165	G1008		PRO	L862	L794
F1806	F1602	K1539	K1539	L1471	W1450	PRO	ALA	Y1166	G1008		PRO	L862	L794
Q1809	F1604	Q1540	Q1540	D1474	W1450	PRO	ALA	L1167	G1008		PRO	L862	L794
E1925	S1606	F1541	F1541	L1478	W1450	PRO	ALA	E1171	G1008		PRO	L862	L794
V1926	P1608	I1544	I1544	L1478	W1450	PRO	ALA	T1172	G1008		PRO	L862	L794
M1927	T1609	D1545	D1545	F1481	W1450	PRO	ALA	D1173	G1008		PRO	L862	L794
R1928	L1610	M1548	M1548	N1482	W1450	PRO	ALA	K1174	G1008		PRO	L862	L794
I1929	L1611	K1550	K1550	L1485	W1450	PRO	ALA	D1175	G1008		PRO	L862	L794
D1930	L1613	M1552	M1552	H1486	W1450	PRO	ALA	E1176	G1008		PRO	L862	L794
L1931	Q1616	E1553	E1553	H1486	W1450	PRO	ALA	R1180	G1008		PRO	L862	L794
Q1932	G1617	F1554	F1554	V1487	W1450	PRO	ALA	L1183	G1008		PRO	L862	L794
V1933	S1618	A1555	A1555	T1488	W1450	PRO	ALA	W1187	G1008		PRO	L862	L794
L1934	E1619	K1556	K1556	P1489	W1450	PRO	ALA	L1190	G1008		PRO	L862	L794
S1935	P1620	E1557	E1557	F1490	W1450	PRO	ALA	I1191	G1008		PRO	L862	L794
I1962	T1621	T1558	T1558	K1491	W1450	PRO	ALA	E1195	G1008		PRO	L862	L794
V1967	I1623	K1559	K1559	A1492	W1450	PRO	ALA	K1189	G1008		PRO	L862	L794
G1973	Q1624	K1560	K1560	E1495	W1450	PRO	ALA	E1200	G1008		PRO	L862	L794
L1974	E1625	V1561	V1561	N1496	W1450	PRO	ALA	Y1201	G1008		PRO	L862	L794
T1975	F1627	I1562	I1562	K1428	W1450	PRO	ALA	Q1202	G1008		PRO	L862	L794
M1976	E1628	P1563	P1563	L1429	W1450	PRO	ALA	L1118	G1008		PRO	L862	L794
N1977	K1630	C1564	C1564	I1498	W1450	PRO	ALA	K1121	G1008		PRO	L862	L794
	L1741	S1565	S1565	L1498	W1450	PRO	ALA	V1126	G1008		PRO	L862	L794
	L1742	Q1566	Q1566	T1499	W1450	PRO	ALA	K1127	G1008		PRO	L862	L794
	S1743	M1567	M1567	F1501	W1450	PRO	ALA	D1130	G1008		PRO	L862	L794
	R1744	D1568	D1568	S1502	W1450	PRO	ALA	S1131	G1008		PRO	L862	L794
	N1745	M1569	M1569	V1503	W1450	PRO	ALA	L1132	G1008		PRO	L862	L794
	E1746	L1570	L1570	V1504	W1450	PRO	ALA		G1008		PRO	L862	L794
	R1747				W1450	PRO	ALA		G1008		PRO	L862	L794
	N1748				W1450	PRO	ALA		G1008		PRO	L862	L794



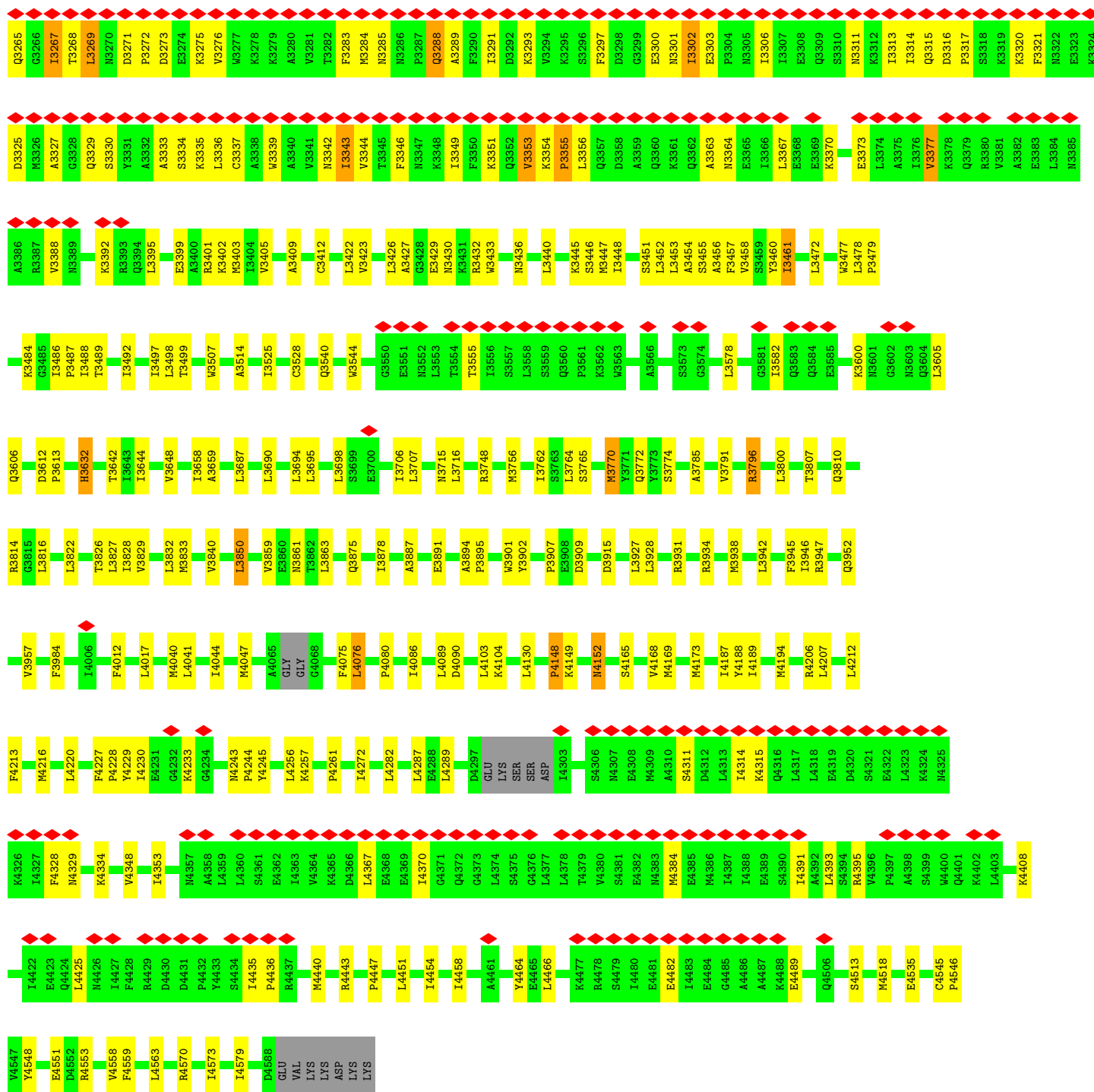


• Molecule 2: Outer arm dynein beta heavy chain

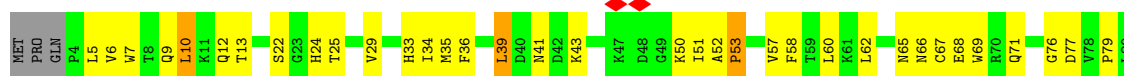
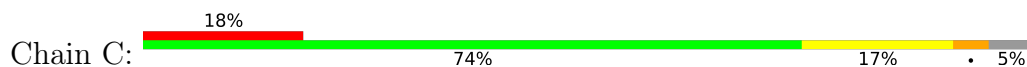


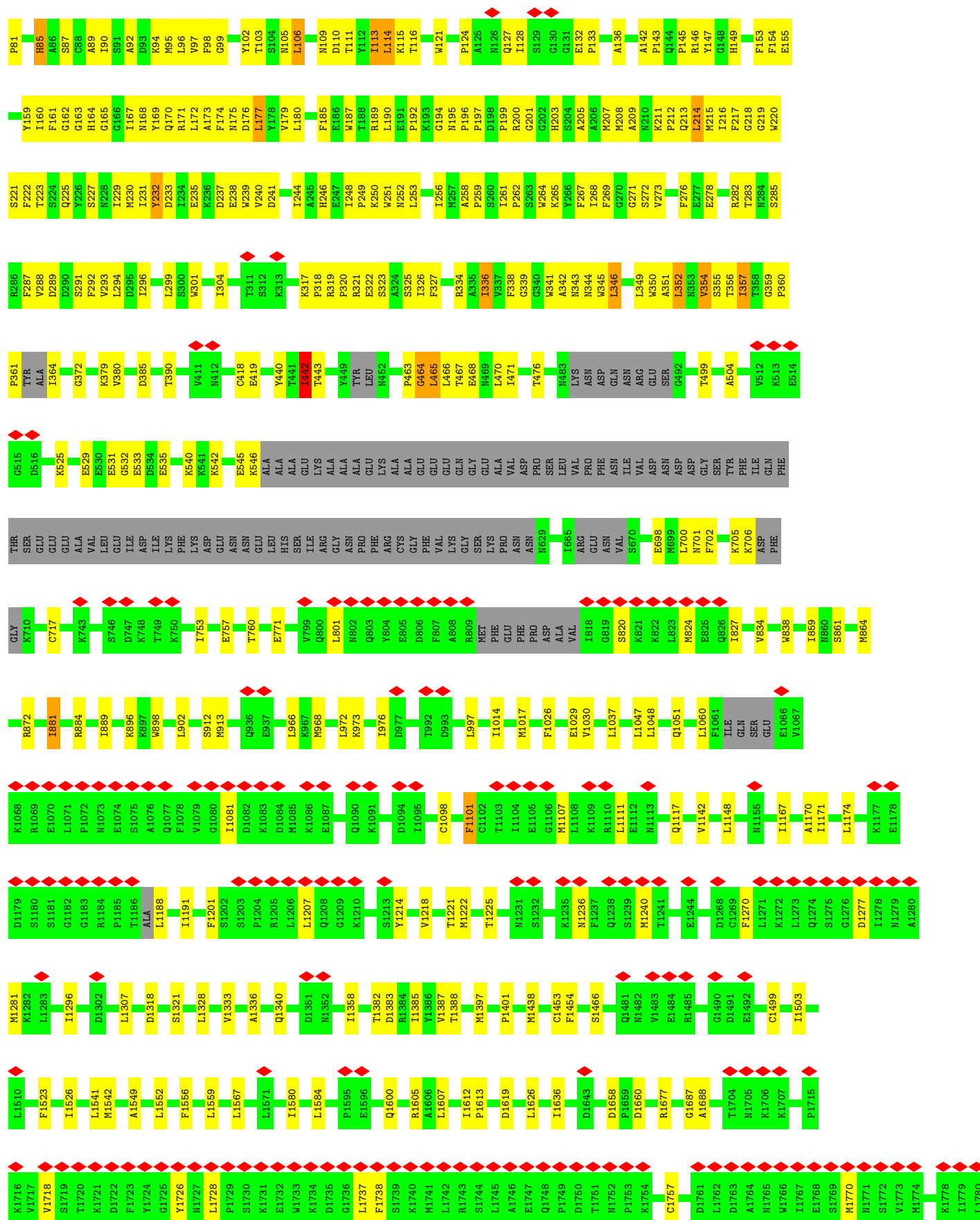




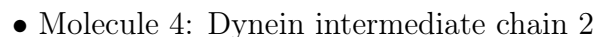


• Molecule 3: Dynein-1-alpha heavy chain, flagellar inner arm I1 complex protein, putative

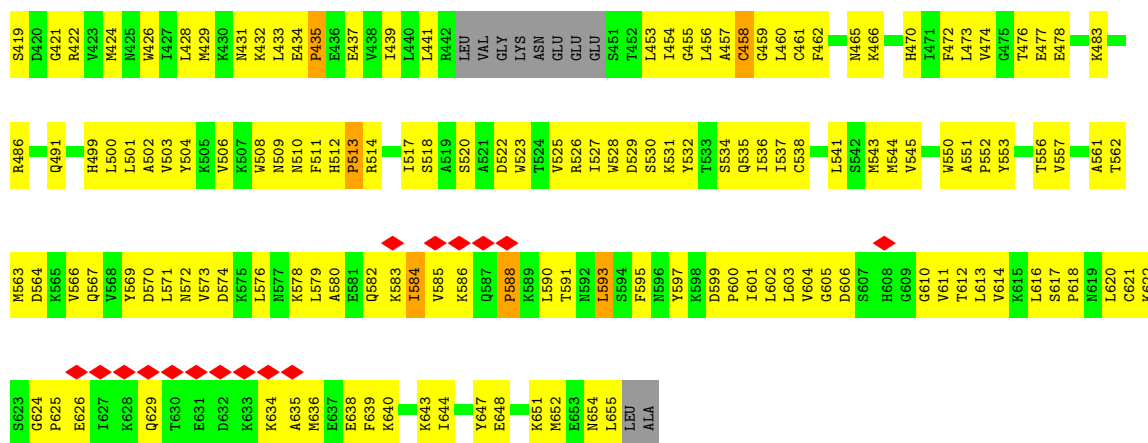




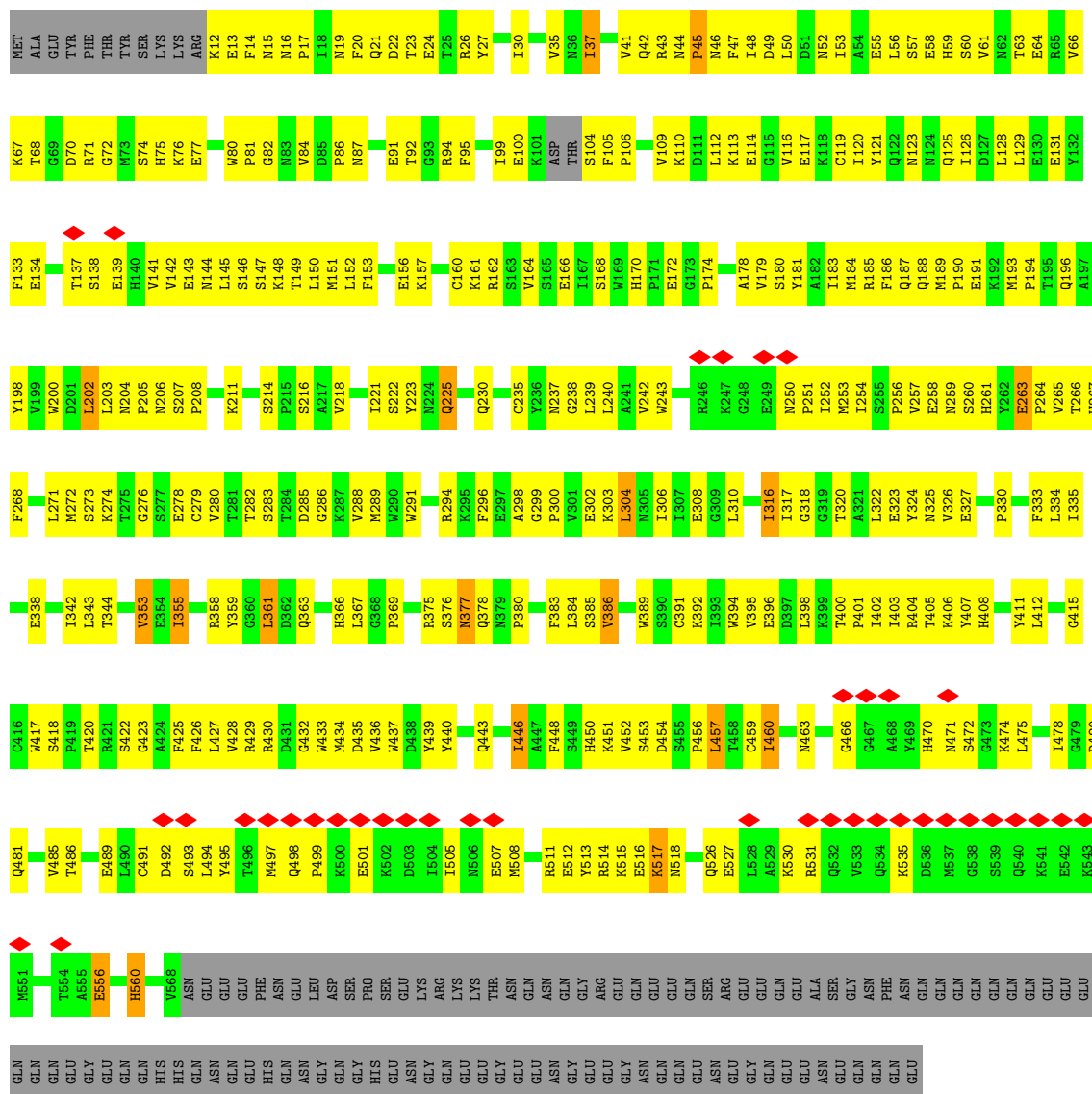
K3151	L2989	A3785	S2815	L2755	K2695	V2480	G2365	K2113	R1923	T1781
F3161	P2990	L2876	W2816	K2756	S2696	W2486	K2366	L2114	K1924	L1782
L3184	V2994	A2877	V2817	L2757	A2697	A2487	Q2367	A2115	A1783	A1783
D3185	V2994	R2878	V2818	M2758	L2698	L2488	S2368	I2119	W1784	W1784
I3190	I3001	R2879	N2819	K2759	N2699	T2512	D2226	T2122	W1785	W1785
I3010	I3010	N2880	N2820	S2760	S2700	W2514	P2227	Q2123	W1929	W1929
M3011	M3011	A2881	V2821	P2761	I2701	D2513	W2228	V2124	W1930	W1930
I3012	I3012	R2892	K2822	E2762	S2702	W2514	N2229	M2128	N1981	N1981
D3013	D3013	L2895	Y2823	E2763	K2703	L2531	F2230	T2131	I1982	I1982
P3014	P3014	L2899	Y2824	E2764	K2704	E2532	F2231	T2132	T1983	T1983
E3204	E3204	L2899	D2825	M2765	D2705	P2533	E2232	S2131	T1983	T1983
E3205	E3205	L2899	V2826	E2766	F2706	L2536	P2233	A2132	W1791	W1791
A3208	A3208	L2902	L2827	K2767	Q2707	V2556	D2234	G2133	P1792	P1792
I3212	I3212	L2903	Q2828	L2768	Q2708	E2648	K2235	S2134	H1793	H1793
I3217	I3217	L2908	D2829	L2769	A2709	L2564	L2237	F2135	W1794	W1794
R3225	R3225	R2909	V2830	N2770	K2710	K2576	H2242	V2137	R1804	R1804
A3227	A3227	R2909	E2831	F2771	S2711	S2577	E2243	T2137	F1805	F1805
I3266	I3266	K2912	P2832	K2772	F2712	F2578	E2245	Y2141	A1806	A1806
S3267	S3267	S2913	K2833	D2773	A2713	L2581	T2247	F2145	T1807	T1807
E3268	E3268	L2914	R2834	V2774	S2714	L2582	L2416	F2152	P1808	P1808
N3269	N3269	L2915	K2835	V2775	P2715	L2583	F2417	S2159	A1809	A1809
I3270	I3270	Q2916	A2836	D2776	P2716	L2584	L2417	T2159	T1810	T1810
S3273	S3273	L2917	L2837	A2777	A2717	F2585	L2416	R2172	S1840	S1840
E3274	E3274	E2918	K2838	K2778	Q2718	L2589	E2425	F2173	Q1841	Q1841
N3275	N3275	Q2920	E2839	Q2779	V2719	K2592	R2426	K2174	D1842	D1842
I3064	I3064	R2921	E2840	V2780	T2660	R2593	I2431	S2175	Q1843	Q1843
G3273	G3273	K2922	T2841	PR0	I2661	E2596	N2432	T2176	E1844	E1844
K3274	K3274	L2923	E2842	ALA	E2662	E2597	L2416	I2177	F1853	F1853
T3275	T3275	L2924	Q2843	N2784	A2663	K2600	T2444	E2178	I1864	I1864
T3276	T3276	V2925	Q2844	V2785	D2664	L2607	T2445	K2184	H1867	H1867
VAL	VAL	D2927	E2845	V2786	K2665	L2607	T2446	V2185	C1868	C1868
PRO	PRO	L2928	E2846	N2787	C2666	E2615	D2447	L2189	R1869	R1869
GLY	GLY	V2929	E2847	V2788	Q2667	A2618	E2448	L2192	Y1880	Y1880
GLU	GLU	A2931	A2848	V2789	L2668	L2619	E2449	Q2193	I1883	I1883
THR	THR	S2932	V2849	K2789	L2669	V2622	A2451	A2194	C1884	C1884
ALA	ALA	F2934	K2850	N2790	Q2671	E2623	D2452	V2195	L1887	L1887
ASN	ASN	V2935	L2851	Q2791	D2672	V2624	M2453	T2196	L1890	L1890
GLN	GLN	S2936	L2852	Y2792	V2673	V2624	L2454	Q2197	L1901	L1901
HIS	HIS	S2938	E2853	N2793	F2734	V2625	M2455	Q2198	F1902	F1902
LYS	LYS	F2941	V2854	N2794	A2675	E2626	Q2456	R2200	T2092	T2092
GLU	GLU	K2943	E2855	K2795	Q2676	K2627	A2457	R2201	Q2093	Q2093
GLU	GLU	L2944	E2856	P2796	Q2677	Q2628	K2459	T2202	I2096	I2096
GLU	GLU	M2949	V2857	S2797	S2678	V2629	K2461	A2204	D2110	D2110
GLU	GLU	S2966	F2798	F2798	S2679	A2631	G2462	H2207	V2111	V2111
GLU	GLU	L2974	T2799	T2799	S2680	E2632	E2463	R2207	S2112	S2112
GLU	GLU	W2984	P2800	P2800	E2801	E2633	K2464	R2213		
			E2802	E2802	K2742	K2634	P2466			
			N2803	N2803	N2743		D2467			
			A2804	A2804	K2744		R2469			
			S2805	S2805	K2745					
			K2806	K2806	P2746					
			K2807	K2807	K2747					
			A2808	A2808	D2748					
			A2809	A2809	V2749					
			A2810	A2810	S2750					
			K2811	K2811	W2751					
			C2812	C2812	K2752					
			L2813	L2813	S2753					
			C2814	C2814	S2754					



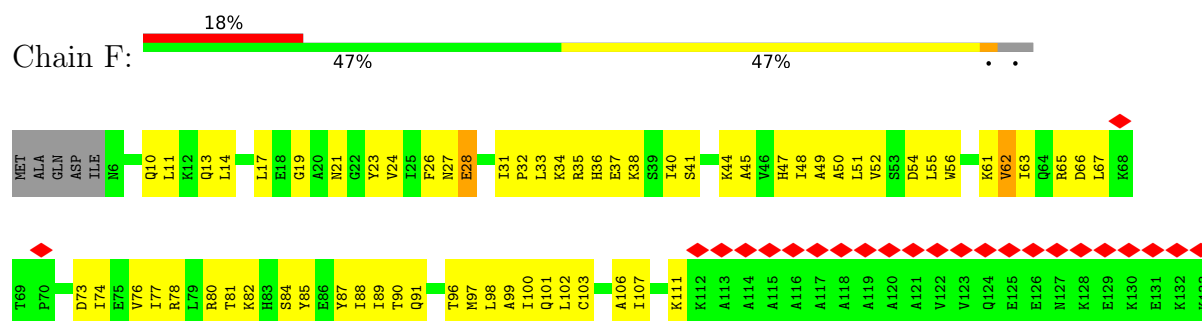
G349	ASP	Y208	M141	L61	MET
V350	ASN	Y209	E145	T62	PRO
M351	LEU	I212	E148	A63	LYS
C352	GLU	M213	P149	Q64	GLN
L353	ALA	K214	G150	E65	THR
G354	GLY	D215	A151	L66	LYS
F355	K278	H216	M152	N67	VAL
H356	G281	Q217	H153	E68	VAL
P357	H282	I218	M154	D69	ALA
A360	L283	E219	E155	M70	SER
A361	L284	N220	I158	P71	ARG
L362	P285	K221	K159	S72	LYS
L363	L286	K222	Q160	K73	THR
A364	A287	K223	T161	N74	VAL
V365	R288	K224	L162	E76	MET
G366	F289	K225	R163	P77	PRO
L367	S290	E226	F165	K78	ILE
V368	S291	D227	F166	N79	SER
L369	N291	Q228	M167	P80	ARG
D369	E292	V226	F188	Q81	ALA
G370	K293	D227	M169	A82	ARG
T371	K294	Q228	T170	P83	GLN
G372	R295	D229	R171	T87	ILE
L373	K296	K230	E172	V88	ARG
V374	K297	K231	T171	V89	LYS
I377	N298	Q232	C173	D90	ASP
R378	V299	D233	Q174	Y91	SER
N379	T300	Q234	T175	Y92	ASN
K380	S301	Q235	I176	T93	THR
H381	I302	M236	G184	R94	GLN
C303	C303	S235	V185	R95	ASN
Y386	P306	Y237	S186	K96	ASN
V390	F312	S238	T187	P96	MET
R391	A313	T239	E188	K97	MET
N392	A313	S240	P189	T98	ASN
Q393	Q393	F241	R191	D99	ASN
K394	S315	R242	C196	E100	ASP
H395	L316	R243	G197	L101	GLN
T396	Y319	G244	T187	E100	GLN
D397	D320	C245	E188	L101	MET
P398	F321	K246	P189	Q104	GLU
V399	W400	M248	P190	M105	ASP
Q401	V402	E249	P191	I106	GLU
V402	K323	R250	E249	V107	GLU
K403	Q324	M251	T194	H108	ILE
W404	R325	V252	I195	P109	ASP
N405	K326	Q254	C196	S110	GLN
P406	G327	Q254	G197	M112	ARG
K410	L328	N255	N198	G113	GLU
M411	I329	Q256	I199	D114	GLY
Y412	C330	Q257	T200	Y115	MET
M413	L331	K260	Q201	I116	LYS
F414	Y332	Y261	I204	W117	ASN
I417	P340	H262	F205	K118	GLN
L419				E128	GLY



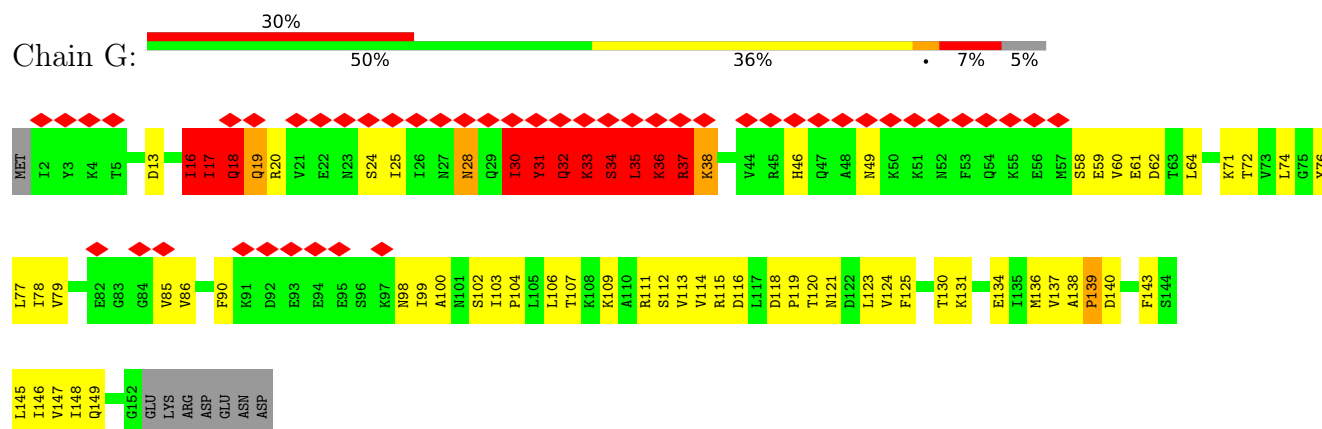
• Molecule 5: Flagellar outer dynein arm intermediate protein, putative



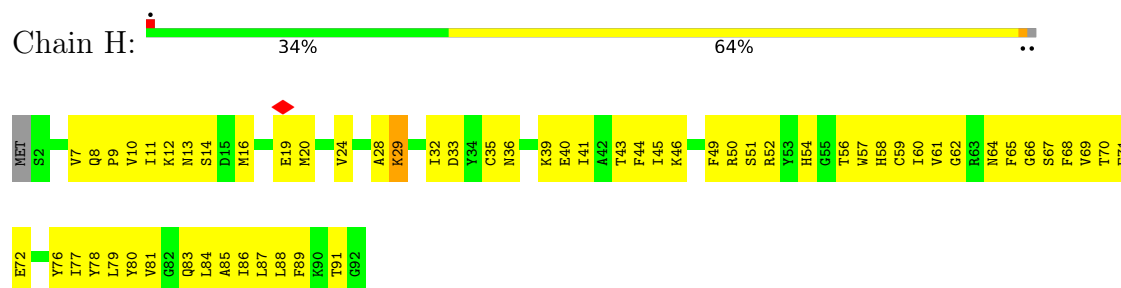
- Molecule 6: Dynein light chain roadblock-type 2 protein



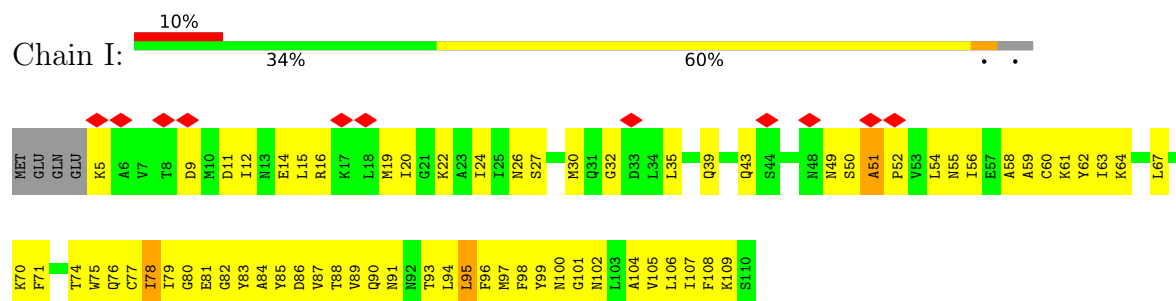
- Molecule 7: Dynein light chain roadblock-type 2 protein



- Molecule 8: Dynein light chain

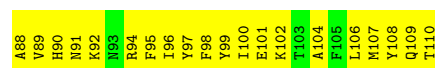


- Molecule 9: Dynein light chain

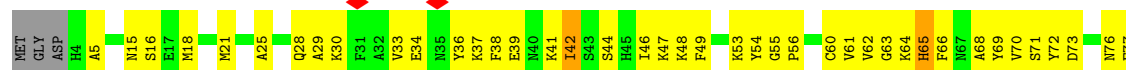


- Molecule 10: Dynein light chain

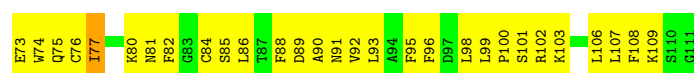




• Molecule 11: Dynein light chain



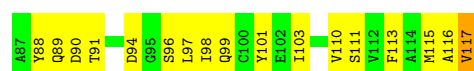
• Molecule 12: Dynein light chain



• Molecule 13: Dynein light chain



• Molecule 14: Dynein light chain tctex-type 1 protein



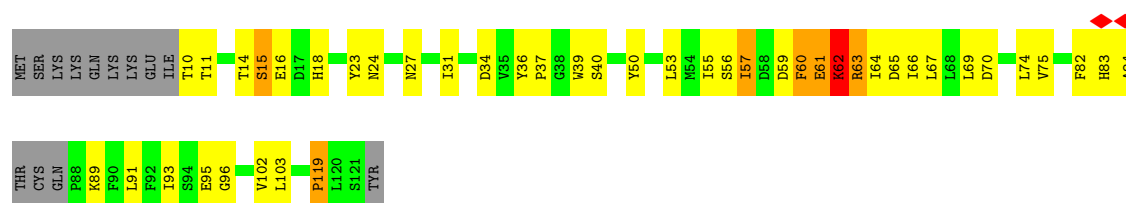
• Molecule 15: Dynein light chain 2A

Chain O: 



• Molecule 16: Thioredoxin

Chain P: 



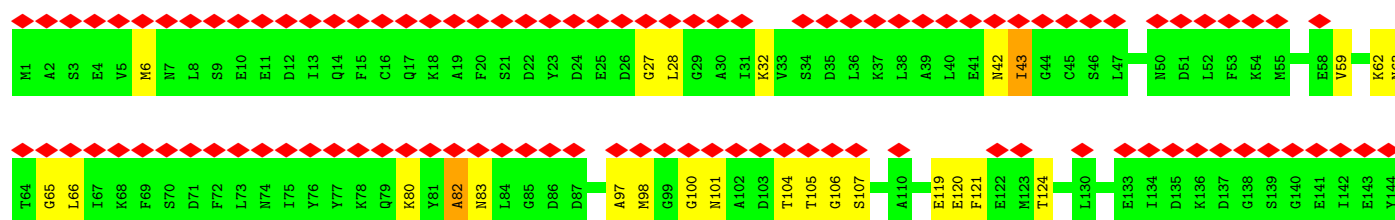
• Molecule 17: Dynein light chain 1

Chain Q: 



• Molecule 18: Dynein light chain 4A

Chain R: 



L149	L150
LEU	LYS
LYS	SER
SER	GLY
GLY	PHE
PHE	ALA
ALA	ASN
ASN	GLU
GLU	GLY
GLY	ASN

4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	2131	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	80.0	Depositor
Minimum defocus (nm)	3000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	1.222	Depositor
Minimum map value	-0.797	Depositor
Average map value	0.014	Depositor
Map value standard deviation	0.196	Depositor
Recommended contour level	0.14	Depositor
Map size ($\text{\AA}$)	628.26, 628.26, 628.26	wwPDB
Map dimensions	74, 74, 74	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	8.49, 8.49, 8.49	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ATP, ADP

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	A	1.04	16/34544 (0.0%)	1.54	59/46728 (0.1%)
2	B	1.12	18/35318 (0.1%)	1.61	88/47792 (0.2%)
3	C	1.30	278/31033 (0.9%)	1.70	278/42007 (0.7%)
4	D	0.98	1/4789 (0.0%)	1.27	10/6477 (0.2%)
5	E	0.94	0/4540	1.18	3/6136 (0.0%)
6	F	0.87	0/1008	1.06	0/1355
7	G	0.96	0/1030	1.67	14/1403 (1.0%)
8	H	0.98	0/767	1.13	0/1031
9	I	1.01	0/838	1.15	0/1131
10	J	0.93	0/832	1.14	1/1119 (0.1%)
11	K	0.95	0/776	1.08	0/1038
12	L	0.94	0/872	1.18	2/1176 (0.2%)
13	M	0.96	0/752	1.11	0/1006
14	N	1.01	0/864	1.20	0/1175
15	O	0.97	0/1012	1.18	0/1358
16	P	3.15	6/538 (1.1%)	2.40	20/746 (2.7%)
17	Q	0.50	2/1004 (0.2%)	1.24	9/1385 (0.6%)
18	R	1.42	1/738 (0.1%)	1.72	4/1025 (0.4%)
All	All	1.14	322/121255 (0.3%)	1.56	488/164088 (0.3%)

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	A	0	4
2	B	0	11
3	C	0	2
4	D	0	1
7	G	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
16	P	0	2
All	All	0	32

All (322) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	59	THR	C-N	-63.97	0.44	1.33
1	A	1067	PRO	N-CD	51.30	2.19	1.47
16	P	62	LYS	C-N	-49.84	0.64	1.33
16	P	15	SER	C-N	35.33	1.81	1.34
18	R	82	ALA	C-N	30.51	1.71	1.33
1	A	1649	ALA	C-N	-29.68	0.94	1.33
2	B	56	ASP	C-N	-27.91	0.96	1.33
2	B	799	VAL	C-N	27.71	1.72	1.33
1	A	943	THR	C-N	25.54	1.69	1.33
16	P	61	GLU	C-N	19.12	1.60	1.33
2	B	55	GLN	C-N	18.85	1.60	1.33
1	A	3351	PRO	N-CA	18.63	1.71	1.47
2	B	17	ARG	N-CA	17.87	1.69	1.46
1	A	1171	ILE	C-N	16.05	1.56	1.33
3	C	2636	LYS	C-O	-14.82	1.06	1.24
3	C	2685	ASP	C-O	13.93	1.40	1.24
3	C	2719	VAL	CA-CB	12.06	1.60	1.54
3	C	2639	ASP	CA-C	-11.34	1.38	1.52
2	B	49	PHE	C-N	-10.80	1.18	1.33
3	C	442	ILE	C-N	10.52	1.47	1.33
3	C	2740	ILE	N-CA	10.35	1.58	1.46
3	C	2701	ILE	CA-CB	-10.28	1.43	1.54
3	C	2800	PRO	N-CD	10.27	1.62	1.47
3	C	2818	VAL	N-CA	10.12	1.58	1.46
2	B	99	LEU	C-N	-9.96	1.19	1.33
3	C	364	ILE	C-N	-9.86	1.21	1.33
3	C	2806	LYS	N-CA	9.68	1.58	1.46
3	C	2772	LYS	N-CA	9.38	1.57	1.46
3	C	2829	ASP	N-CA	9.33	1.57	1.46
3	C	2706	PHE	N-CA	9.32	1.57	1.46
3	C	2811	LYS	N-CA	9.24	1.57	1.46
3	C	2819	ASN	CA-C	-9.19	1.41	1.52
1	A	620	PRO	N-CD	-9.14	1.34	1.47
3	C	2867	LYS	C-O	9.11	1.34	1.24
3	C	2822	LYS	N-CA	8.93	1.57	1.46
3	C	2824	TYR	C-O	-8.89	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2870	ALA	C-O	8.86	1.34	1.24
4	D	105	MET	C-N	8.83	1.46	1.33
3	C	2715	PRO	N-CD	-8.81	1.35	1.47
3	C	2714	SER	CA-C	8.74	1.60	1.52
3	C	2752	LYS	N-CA	8.71	1.56	1.46
3	C	2778	ASN	CA-C	8.66	1.61	1.53
3	C	2776	ASP	CA-C	-8.58	1.42	1.52
3	C	2702	SER	N-CA	8.57	1.56	1.46
3	C	2812	GLY	CA-C	-8.48	1.43	1.52
3	C	2694	ALA	CA-CB	-8.47	1.40	1.53
3	C	2700	SER	C-N	-8.44	1.24	1.33
3	C	2649	LYS	C-O	-8.43	1.14	1.24
3	C	2765	MET	N-CA	8.37	1.56	1.46
3	C	2653	GLU	C-O	-8.36	1.14	1.24
3	C	2769	LEU	CA-C	-8.34	1.42	1.52
3	C	2818	VAL	CA-CB	-8.31	1.44	1.54
3	C	2715	PRO	C-O	-8.29	1.15	1.24
3	C	2863	GLU	C-O	8.26	1.33	1.24
3	C	2718	GLY	CA-C	-8.23	1.42	1.52
3	C	2768	LEU	N-CA	8.22	1.56	1.46
3	C	2656	ASN	C-O	-8.18	1.14	1.24
3	C	2825	ASP	N-CA	8.14	1.56	1.46
2	B	16	ASN	C-N	8.13	1.45	1.33
3	C	2735	ASN	N-CA	8.05	1.55	1.46
3	C	2803	MET	N-CA	8.02	1.56	1.46
3	C	2817	VAL	CA-C	8.02	1.62	1.52
3	C	2719	VAL	C-O	-7.94	1.17	1.24
3	C	2761	PRO	CA-CB	-7.93	1.42	1.53
3	C	2771	PHE	CA-C	7.88	1.63	1.52
3	C	2738	ILE	CA-C	-7.80	1.43	1.52
3	C	2805	SER	CA-C	7.80	1.62	1.52
3	C	2775	VAL	N-CA	7.79	1.55	1.46
3	C	2759	LYS	C-O	-7.79	1.16	1.24
3	C	2746	PRO	N-CD	7.76	1.58	1.47
3	C	2689	PRO	N-CD	-7.75	1.36	1.47
3	C	2715	PRO	CA-C	7.75	1.59	1.52
3	C	2705	ASP	CA-C	7.74	1.62	1.52
3	C	2789	LYS	CA-C	-7.72	1.42	1.52
3	C	2799	THR	N-CA	7.72	1.54	1.45
3	C	2652	VAL	C-O	-7.71	1.15	1.24
3	C	2711	SER	CA-CB	-7.68	1.42	1.53
3	C	2827	ILE	C-O	-7.66	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2760	SER	CA-C	7.63	1.61	1.52
3	C	2877	ALA	C-O	7.57	1.33	1.24
3	C	2826	VAL	CA-C	-7.56	1.43	1.52
3	C	2757	LEU	C-N	-7.56	1.24	1.33
3	C	2643	GLU	CD-OE1	-7.52	1.11	1.25
3	C	2714	SER	C-O	-7.52	1.15	1.25
3	C	2640	ALA	CA-C	-7.50	1.43	1.52
3	C	2775	VAL	CA-CB	-7.45	1.44	1.54
3	C	2814	CYS	N-CA	7.42	1.55	1.46
3	C	2739	GLU	CA-C	7.39	1.62	1.52
3	C	2764	PHE	N-CA	7.39	1.55	1.46
3	C	2695	LYS	CA-C	-7.37	1.43	1.52
3	C	2720	PRO	C-O	-7.36	1.14	1.24
3	C	2830	VAL	CA-C	-7.35	1.43	1.52
3	C	2733	TYR	N-CA	7.34	1.57	1.46
3	C	2860	LYS	C-O	7.30	1.32	1.24
1	A	1172	THR	C-N	7.30	1.44	1.33
3	C	2841	THR	CA-C	-7.30	1.43	1.52
17	Q	179	TYR	C-O	7.28	1.32	1.23
3	C	2857	VAL	CA-C	7.28	1.61	1.52
3	C	2827	ILE	CA-CB	7.27	1.63	1.54
3	C	2716	PRO	N-CD	-7.27	1.37	1.47
3	C	2785	VAL	N-CA	7.25	1.55	1.46
1	A	1426	GLN	C-N	7.22	1.43	1.33
3	C	2762	GLU	CA-C	-7.19	1.43	1.52
3	C	2710	LYS	N-CA	7.18	1.55	1.46
3	C	2834	ARG	C-O	-7.18	1.15	1.24
3	C	2731	ALA	C-O	-7.17	1.15	1.23
3	C	2815	SER	N-CA	7.16	1.54	1.46
3	C	2820	ILE	N-CA	-7.15	1.38	1.46
3	C	2701	ILE	CA-C	7.15	1.62	1.52
3	C	2828	GLN	CA-C	7.14	1.62	1.52
3	C	2815	SER	CA-C	-7.14	1.43	1.52
3	C	2698	LEU	C-O	7.13	1.32	1.24
3	C	2776	ASP	N-CA	7.11	1.54	1.46
3	C	2736	GLU	C-O	7.07	1.32	1.24
3	C	2810	ALA	CA-C	7.07	1.61	1.52
3	C	2768	LEU	CA-CB	-7.04	1.42	1.53
3	C	2845	GLU	CA-C	-7.00	1.43	1.52
3	C	2644	VAL	N-CA	7.00	1.54	1.46
3	C	2821	VAL	CA-C	7.00	1.61	1.52
3	C	2764	PHE	CA-C	6.98	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2802	GLN	CA-C	6.97	1.61	1.52
3	C	2693	GLN	C-N	-6.95	1.24	1.33
3	C	2874	LYS	C-O	6.92	1.32	1.24
3	C	2694	ALA	N-CA	6.91	1.54	1.46
3	C	2697	ALA	C-N	-6.90	1.24	1.33
3	C	2643	GLU	CG-CD	6.87	1.69	1.52
3	C	2823	TYR	CA-C	-6.87	1.43	1.52
3	C	2643	GLU	CD-OE2	6.87	1.38	1.25
3	C	2702	SER	C-N	-6.85	1.25	1.33
3	C	2826	VAL	N-CA	6.84	1.54	1.46
3	C	2767	LYS	CA-C	6.79	1.61	1.52
3	C	2770	ASN	N-CA	-6.79	1.38	1.46
3	C	2695	LYS	N-CA	6.79	1.54	1.46
3	C	2724	ALA	C-O	-6.74	1.16	1.24
1	A	1206	ALA	C-O	6.73	1.31	1.24
3	C	2820	ILE	CA-CB	6.73	1.62	1.54
3	C	2799	THR	CB-OG1	-6.72	1.33	1.43
3	C	2696	SER	N-CA	-6.70	1.38	1.46
3	C	2797	SER	C-O	6.70	1.31	1.24
3	C	2729	LEU	N-CA	6.70	1.54	1.46
3	C	2788	VAL	CA-CB	-6.67	1.45	1.54
3	C	2807	SER	N-CA	6.66	1.54	1.45
2	B	1203	ARG	C-O	6.64	1.31	1.24
3	C	2751	TRP	NE1-CE2	6.63	1.44	1.37
3	C	2644	VAL	CA-C	-6.63	1.44	1.52
3	C	2852	ASN	CA-C	-6.59	1.44	1.52
3	C	2779	GLN	N-CA	6.59	1.56	1.46
3	C	2813	ILE	CA-CB	6.58	1.62	1.54
3	C	2727	ILE	C-O	-6.57	1.16	1.24
3	C	2703	LYS	C-O	6.57	1.31	1.24
3	C	2721	GLU	N-CA	6.53	1.54	1.46
3	C	2635	LYS	C-O	-6.52	1.16	1.24
3	C	2709	ALA	C-N	-6.47	1.25	1.33
3	C	2659	ALA	C-O	-6.46	1.16	1.24
3	C	2710	LYS	CA-CB	-6.46	1.43	1.53
3	C	2738	ILE	N-CA	6.45	1.54	1.46
3	C	2787	ILE	C-O	-6.45	1.16	1.24
3	C	2851	LEU	C-O	-6.43	1.16	1.24
3	C	2758	MET	CA-CB	-6.43	1.43	1.53
3	C	2750	SER	C-N	-6.42	1.25	1.33
3	C	2754	SER	N-CA	6.42	1.54	1.46
3	C	2670	LYS	CA-C	-6.41	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2642	ALA	C-O	-6.36	1.16	1.24
3	C	2728	TYR	C-N	6.34	1.41	1.33
3	C	2752	LYS	C-N	-6.33	1.25	1.33
3	C	2774	VAL	CA-CB	6.31	1.62	1.54
3	C	2847	ALA	C-O	-6.30	1.16	1.24
3	C	2796	PRO	N-CA	6.30	1.55	1.47
3	C	2695	LYS	C-O	6.25	1.31	1.24
3	C	2744	LYS	N-CA	6.24	1.54	1.46
3	C	2799	THR	CA-CB	6.21	1.61	1.54
3	C	2713	ALA	C-O	-6.21	1.16	1.23
3	C	2716	PRO	CA-CB	-6.20	1.45	1.53
1	A	1210	LYS	C-O	6.18	1.31	1.24
3	C	2733	TYR	C-O	6.18	1.31	1.23
3	C	2875	ALA	C-O	-6.17	1.16	1.24
3	C	2808	ALA	CA-C	-6.17	1.44	1.52
3	C	2677	LYS	CA-C	-6.17	1.44	1.52
3	C	2693	GLN	CA-C	6.16	1.60	1.52
3	C	2813	ILE	C-O	-6.15	1.17	1.24
3	C	2744	LYS	CA-C	6.15	1.61	1.52
3	C	2763	GLU	N-CA	-6.13	1.39	1.46
3	C	2732	GLY	CA-C	6.11	1.60	1.51
3	C	2751	TRP	CA-C	6.11	1.60	1.52
3	C	2745	LYS	N-CA	6.10	1.56	1.46
3	C	2767	LYS	C-N	-6.10	1.25	1.33
3	C	2824	TYR	CA-C	6.10	1.60	1.52
3	C	2765	MET	C-O	6.09	1.31	1.24
3	C	2690	LEU	N-CA	6.08	1.54	1.46
3	C	2758	MET	C-N	6.06	1.42	1.33
3	C	2697	ALA	N-CA	6.05	1.53	1.46
3	C	2794	ASN	C-O	-6.03	1.17	1.24
3	C	2739	GLU	N-CA	-6.03	1.39	1.46
3	C	2786	ASN	C-N	6.03	1.41	1.33
3	C	2777	ALA	N-CA	-6.03	1.37	1.46
3	C	2760	SER	C-N	-6.02	1.26	1.34
3	C	2798	PHE	C-O	-6.01	1.15	1.23
3	C	2723	PHE	C-O	-6.00	1.17	1.24
3	C	2734	PHE	CA-C	5.98	1.60	1.52
3	C	2795	MET	CA-C	5.98	1.60	1.52
2	B	1210	ASP	C-O	5.98	1.30	1.24
2	B	109	VAL	C-N	-5.97	1.25	1.33
3	C	2741	ASP	N-CA	5.96	1.53	1.46
3	C	2686	ALA	CA-C	5.92	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2757	LEU	N-CA	5.90	1.53	1.46
3	C	2713	ALA	N-CA	5.89	1.52	1.46
3	C	2721	GLU	C-N	5.89	1.41	1.33
3	C	2837	LEU	CA-C	-5.89	1.45	1.52
16	P	91	LEU	N-CA	5.88	1.53	1.46
3	C	2784	ASN	N-CA	5.87	1.53	1.46
3	C	2704	LYS	CA-CB	5.86	1.62	1.53
3	C	2787	ILE	CA-CB	5.86	1.61	1.54
3	C	2848	THR	C-O	-5.85	1.17	1.24
3	C	2660	THR	C-O	-5.84	1.17	1.24
3	C	2789	LYS	N-CA	5.84	1.53	1.46
3	C	2816	TRP	CA-CB	5.84	1.62	1.53
3	C	2641	PHE	N-CA	5.83	1.53	1.46
3	C	2709	ALA	CA-C	5.80	1.60	1.52
3	C	2762	GLU	C-O	5.79	1.30	1.24
3	C	2744	LYS	CA-CB	-5.78	1.43	1.53
3	C	2858	VAL	N-CA	5.77	1.53	1.46
3	C	2769	LEU	N-CA	5.76	1.53	1.46
3	C	2834	ARG	CA-C	-5.75	1.45	1.52
3	C	2650	ASP	CA-C	5.74	1.60	1.52
3	C	2743	ASN	CA-CB	5.74	1.61	1.53
3	C	2743	ASN	C-N	5.74	1.41	1.33
1	A	1199	LYS	C-O	5.73	1.30	1.24
3	C	2751	TRP	C-N	5.72	1.40	1.33
3	C	2792	TYR	N-CA	5.71	1.53	1.46
3	C	2720	PRO	N-CD	-5.71	1.39	1.47
1	A	1203	HIS	C-O	5.69	1.30	1.24
3	C	2864	GLU	CA-C	5.68	1.60	1.52
3	C	2745	LYS	CA-CB	-5.67	1.42	1.53
3	C	2668	LEU	CA-C	5.65	1.59	1.52
3	C	2753	SER	CA-CB	-5.64	1.44	1.53
3	C	2638	ALA	C-O	5.64	1.30	1.24
3	C	2722	VAL	CA-C	-5.64	1.45	1.52
3	C	2711	SER	N-CA	5.63	1.53	1.46
3	C	2763	GLU	CA-C	5.63	1.60	1.52
3	C	2737	ALA	C-N	5.63	1.40	1.33
3	C	2783	ALA	N-CA	5.63	1.56	1.46
3	C	2828	GLN	C-O	-5.62	1.17	1.24
3	C	2821	VAL	N-CA	5.62	1.53	1.46
3	C	2666	CYS	CA-C	-5.62	1.45	1.52
3	C	2803	MET	CA-CB	-5.62	1.44	1.53
3	C	2815	SER	C-N	5.61	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2707	GLN	C-O	5.60	1.30	1.24
3	C	2672	ASN	CA-C	5.60	1.60	1.52
3	C	2788	VAL	N-CA	5.59	1.53	1.46
3	C	2749	VAL	CA-C	-5.57	1.46	1.52
3	C	2790	ASN	N-CA	-5.56	1.39	1.46
3	C	2800	PRO	CA-C	-5.56	1.44	1.52
3	C	2712	PHE	CA-C	5.53	1.58	1.53
3	C	2663	ALA	CA-C	-5.52	1.45	1.52
16	P	102	VAL	CA-CB	-5.52	1.46	1.54
3	C	2688	GLN	C-O	5.51	1.30	1.24
3	C	2793	LEU	C-N	5.50	1.40	1.33
3	C	2774	VAL	CA-C	5.49	1.59	1.52
3	C	2790	ASN	C-O	-5.48	1.17	1.24
3	C	2822	LYS	CA-CB	-5.46	1.44	1.53
3	C	2817	VAL	C-N	-5.45	1.27	1.33
3	C	2735	ASN	C-O	5.44	1.30	1.24
3	C	2827	ILE	N-CA	-5.43	1.40	1.46
3	C	2714	SER	N-CA	5.42	1.53	1.46
3	C	2773	ASP	C-N	5.41	1.40	1.33
3	C	2826	VAL	C-N	5.40	1.40	1.33
3	C	2804	ALA	CA-C	-5.38	1.45	1.52
3	C	2809	ALA	CA-CB	5.36	1.61	1.53
3	C	2671	GLN	C-O	-5.36	1.18	1.24
3	C	2749	VAL	CA-CB	5.36	1.59	1.53
2	B	3219	GLU	C-O	5.35	1.30	1.24
3	C	2831	GLU	C-O	-5.34	1.17	1.24
3	C	2813	ILE	CA-C	5.33	1.59	1.52
17	Q	179	TYR	CA-C	5.33	1.59	1.52
3	C	2688	GLN	C-N	5.32	1.46	1.33
3	C	2863	GLU	CA-C	-5.32	1.46	1.52
3	C	2810	ALA	C-O	-5.31	1.18	1.24
2	B	1525	TRP	C-O	-5.28	1.18	1.24
3	C	2774	VAL	C-O	-5.27	1.18	1.24
3	C	2726	THR	CA-C	-5.27	1.46	1.52
3	C	2703	LYS	C-N	5.26	1.40	1.33
3	C	2808	ALA	N-CA	5.26	1.52	1.46
3	C	2854	VAL	C-O	-5.26	1.18	1.24
3	C	2688	GLN	CA-C	-5.25	1.46	1.52
3	C	2814	CYS	CA-C	5.25	1.59	1.52
2	B	1199	GLU	C-O	5.22	1.30	1.24
1	A	3350	LYS	C-N	5.22	1.46	1.33
3	C	2742	LYS	C-N	-5.21	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2710	LYS	C-O	5.21	1.30	1.24
3	C	2730	LEU	C-N	5.20	1.40	1.33
3	C	2747	LYS	C-O	5.20	1.29	1.24
3	C	2679	SER	CA-C	5.20	1.59	1.52
3	C	2791	GLN	C-O	-5.20	1.18	1.24
3	C	2730	LEU	C-O	5.18	1.30	1.24
1	A	1213	LYS	C-O	5.17	1.30	1.24
2	B	1214	LEU	C-O	5.16	1.30	1.24
3	C	2865	LEU	N-CA	5.16	1.52	1.46
3	C	2841	THR	C-O	-5.16	1.17	1.24
2	B	57	ASN	CA-C	-5.13	1.46	1.52
1	A	44	PHE	C-O	-5.12	1.18	1.24
3	C	2725	ALA	C-N	5.12	1.40	1.33
3	C	2710	LYS	C-N	5.12	1.40	1.33
3	C	2694	ALA	CA-C	5.11	1.59	1.52
3	C	2761	PRO	N-CA	5.10	1.54	1.47
3	C	2698	LEU	CA-CB	-5.09	1.45	1.53
3	C	2808	ALA	C-N	5.09	1.40	1.33
16	P	103	LEU	CA-C	-5.08	1.46	1.52
3	C	2785	VAL	CA-C	-5.08	1.46	1.52
1	A	1208	TYR	C-O	-5.07	1.18	1.24
2	B	4	HIS	N-CA	5.07	1.49	1.46
3	C	2704	LYS	N-CA	5.07	1.52	1.46
3	C	2856	GLU	C-O	5.06	1.29	1.24
3	C	2796	PRO	N-CD	5.05	1.54	1.47
3	C	2661	ILE	CA-C	5.04	1.59	1.52
3	C	2696	SER	CB-OG	-5.04	1.32	1.42
3	C	2819	ASN	N-CA	5.03	1.52	1.46
3	C	2765	MET	CA-C	-5.03	1.46	1.52
3	C	2838	LYS	C-O	-5.03	1.18	1.24
3	C	2684	LEU	CA-C	-5.02	1.46	1.52
3	C	2751	TRP	CA-CB	-5.01	1.45	1.53
2	B	1207	VAL	C-O	5.00	1.30	1.24
3	C	2801	GLU	CA-CB	5.00	1.61	1.53

All (488) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1171	ILE	CA-C-N	-61.26	4.53	121.54
1	A	1171	ILE	C-N-CA	-61.26	4.53	121.54
2	B	59	THR	O-C-N	-50.09	59.73	122.34
2	B	49	PHE	O-C-N	-38.45	78.05	123.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	137	LEU	N-CA-C	31.92	152.81	113.23
3	C	2639	ASP	CA-C-O	-31.88	86.75	120.55
4	D	105	MET	O-C-N	-28.51	90.20	123.27
3	C	467	THR	N-CA-CB	25.76	155.48	110.39
18	R	82	ALA	CA-C-N	-25.42	76.85	121.85
18	R	82	ALA	C-N-CA	-25.42	76.85	121.85
16	P	62	LYS	O-C-N	-22.67	92.43	122.59
2	B	49	PHE	CA-C-N	22.08	163.72	121.54
2	B	49	PHE	C-N-CA	22.08	163.72	121.54
3	C	2639	ASP	N-CA-C	-20.32	89.13	111.28
17	Q	18	ASN	CA-C-N	18.52	142.99	119.84
17	Q	18	ASN	C-N-CA	18.52	142.99	119.84
16	P	57	ILE	N-CA-CB	18.31	131.34	110.65
16	P	15	SER	CA-C-N	-17.71	94.78	120.28
16	P	15	SER	C-N-CA	-17.71	94.78	120.28
2	B	55	GLN	O-C-N	17.08	142.31	123.52
1	A	3350	LYS	CA-C-N	16.92	141.00	119.84
1	A	3350	LYS	C-N-CA	16.92	141.00	119.84
2	B	3222	PRO	CA-N-CD	-16.76	88.54	112.00
2	B	59	THR	CA-C-N	-16.75	89.55	121.54
2	B	59	THR	C-N-CA	-16.75	89.55	121.54
3	C	467	THR	CB-CA-C	-16.74	76.02	110.17
2	B	1213	PRO	CA-N-CD	-16.14	89.40	112.00
16	P	57	ILE	CB-CA-C	-15.43	91.97	111.87
1	A	1172	THR	O-C-N	-15.40	102.11	122.59
3	C	2639	ASP	O-C-N	15.05	138.07	122.12
2	B	799	VAL	CA-C-N	-15.04	101.96	122.72
2	B	799	VAL	C-N-CA	-15.04	101.96	122.72
2	B	799	VAL	O-C-N	14.74	141.00	122.57
2	B	103	ASN	O-C-N	13.96	141.16	122.59
2	B	1186	PRO	CA-N-CD	-13.90	92.54	112.00
3	C	2853	GLU	N-CA-C	-13.89	96.22	111.36
4	D	105	MET	CA-C-N	13.69	140.18	122.93
4	D	105	MET	C-N-CA	13.69	140.18	122.93
1	A	3203	PRO	CA-N-CD	-13.25	93.45	112.00
2	B	3355	PRO	CA-N-CD	-13.19	93.53	112.00
3	C	2688	GLN	CA-C-N	-13.12	103.44	119.84
3	C	2688	GLN	C-N-CA	-13.12	103.44	119.84
2	B	138	ASN	N-CA-CB	12.77	132.07	110.49
7	G	17	ILE	O-C-N	-12.46	109.70	121.91
7	G	16	ILE	O-C-N	-12.43	109.73	121.91
3	C	2746	PRO	CA-N-CD	-12.35	94.71	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	466	LEU	CB-CA-C	-12.20	99.27	116.34
3	C	2674	GLU	N-CA-C	-12.11	98.16	111.36
3	C	442	ILE	CB-CA-C	-12.09	91.46	111.29
2	B	103	ASN	CA-C-N	-12.08	107.52	123.10
2	B	103	ASN	C-N-CA	-12.08	107.52	123.10
7	G	35	LEU	O-C-N	-12.03	109.68	122.07
7	G	36	LYS	O-C-N	-12.01	109.70	122.07
3	C	2685	ASP	N-CA-C	-12.00	98.18	111.14
3	C	442	ILE	N-CA-CB	12.00	131.02	111.23
7	G	32	GLN	O-C-N	-11.97	109.74	122.07
7	G	18	GLN	O-C-N	-11.97	109.74	122.07
7	G	37	ARG	O-C-N	-11.97	109.74	122.07
3	C	2640	ALA	N-CA-C	11.95	125.45	111.11
7	G	33	LYS	O-C-N	-11.93	109.78	122.07
7	G	31	TYR	O-C-N	-11.91	109.80	122.07
7	G	34	SER	O-C-N	-11.86	109.86	122.07
3	C	2639	ASP	CB-CA-C	11.82	130.42	110.79
16	P	56	SER	N-CA-CB	11.79	127.77	110.20
1	A	1528	GLY	N-CA-C	11.76	126.84	112.73
2	B	55	GLN	CA-C-N	-11.73	104.40	122.81
2	B	55	GLN	C-N-CA	-11.73	104.40	122.81
7	G	30	ILE	O-C-N	-11.68	109.76	121.90
2	B	73	PHE	N-CA-C	-11.64	89.92	108.90
2	B	16	ASN	CA-C-N	11.55	143.60	121.54
2	B	16	ASN	C-N-CA	11.55	143.60	121.54
3	C	442	ILE	CA-C-N	-11.00	105.31	121.05
3	C	442	ILE	C-N-CA	-11.00	105.31	121.05
3	C	2796	PRO	CA-N-CD	-10.93	96.70	112.00
3	C	2688	GLN	O-C-N	10.86	130.92	120.71
3	C	2681	GLN	N-CA-C	-10.79	99.60	111.36
3	C	2663	ALA	N-CA-C	-10.72	98.51	111.69
3	C	2849	VAL	N-CA-C	-10.61	100.23	110.42
3	C	2830	VAL	CA-C-O	-10.36	110.19	121.17
3	C	2636	LYS	N-CA-C	-10.04	100.41	111.36
3	C	2660	THR	N-CA-C	-9.90	99.51	111.69
3	C	2838	LYS	N-CA-C	-9.86	100.50	111.14
4	D	398	PRO	CA-N-CD	-9.85	98.21	112.00
1	A	1171	ILE	O-C-N	-9.81	110.31	122.57
3	C	53	PRO	CA-N-CD	-9.76	98.34	112.00
3	C	2656	ASN	N-CA-C	-9.60	99.89	111.69
17	Q	179	TYR	N-CA-C	9.59	124.47	110.28
3	C	2678	SER	N-CA-C	-9.52	100.86	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	137	LEU	CB-CA-C	-9.48	90.31	109.55
3	C	2643	GLU	CG-CD-OE2	9.44	140.10	118.40
3	C	2667	GLY	N-CA-C	-9.43	101.08	112.49
3	C	2670	LYS	N-CA-C	-9.41	100.12	111.69
3	C	2800	PRO	CA-N-CD	-9.40	98.84	112.00
3	C	2652	VAL	N-CA-C	-9.34	101.29	110.72
1	A	3250	PRO	CA-N-CD	-9.33	98.94	112.00
3	C	2645	VAL	N-CA-C	-9.28	101.35	110.72
3	C	2639	ASP	CA-C-N	9.25	133.02	120.54
3	C	2639	ASP	C-N-CA	9.25	133.02	120.54
1	A	121	GLY	O-C-N	-9.04	110.95	122.70
2	B	84	PHE	CA-C-N	8.98	136.41	122.94
2	B	84	PHE	C-N-CA	8.98	136.41	122.94
1	A	3351	PRO	CA-N-CD	-8.97	99.44	112.00
3	C	2692	GLU	N-CA-C	-8.91	101.46	111.71
2	B	84	PHE	O-C-N	8.89	132.93	123.42
3	C	2640	ALA	CA-C-O	-8.87	111.41	120.90
3	C	2842	GLU	N-CA-C	-8.85	101.58	111.14
1	A	1043	PRO	N-CA-C	8.80	125.19	113.40
3	C	2641	PHE	N-CA-C	-8.76	101.67	111.14
16	P	60	PHE	CB-CA-C	-8.75	97.14	110.88
3	C	2645	VAL	CA-C-N	8.65	129.58	119.98
3	C	2645	VAL	C-N-CA	8.65	129.58	119.98
3	C	2860	LYS	N-CA-C	-8.58	101.89	111.07
3	C	2826	VAL	O-C-N	8.55	130.64	121.83
3	C	364	ILE	O-C-N	-8.55	109.32	123.00
3	C	2786	ASN	N-CA-C	-8.46	102.05	111.28
17	Q	179	TYR	CA-C-O	8.46	130.63	121.16
3	C	2793	LEU	N-CA-C	-8.41	102.07	111.07
10	J	29	PRO	N-CA-C	-8.39	100.47	110.70
1	A	326	PRO	N-CA-CB	8.35	112.19	103.00
3	C	2643	GLU	CG-CD-OE1	-8.35	99.20	118.40
3	C	2793	LEU	CA-C-O	-8.26	112.14	120.82
3	C	2815	SER	O-C-N	8.24	130.99	122.09
3	C	2832	PRO	CA-N-CD	-8.22	100.49	112.00
2	B	658	GLN	N-CA-C	-8.21	98.54	111.02
3	C	2773	ASP	N-CA-C	-8.15	102.47	111.36
3	C	2830	VAL	O-C-N	8.14	129.89	121.91
3	C	2671	GLN	N-CA-C	-8.12	102.39	111.07
4	D	320	ASP	CB-CA-C	8.10	117.85	109.83
3	C	2652	VAL	CA-C-O	-8.07	112.29	120.85
3	C	2714	SER	CA-C-N	8.07	128.70	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2714	SER	C-N-CA	8.07	128.70	120.38
3	C	2726	THR	CA-C-O	-8.05	111.89	120.42
3	C	2851	LEU	CA-C-O	-8.02	112.04	120.55
3	C	2648	GLU	N-CA-C	-8.01	101.63	111.40
1	A	1426	GLN	O-C-N	7.93	131.19	122.15
3	C	2657	SER	N-CA-C	-7.92	102.72	111.36
1	A	1599	PHE	CA-C-N	7.83	127.89	119.28
1	A	1599	PHE	C-N-CA	7.83	127.89	119.28
3	C	2786	ASN	CA-C-O	-7.82	112.26	120.55
3	C	2819	ASN	O-C-N	7.75	130.99	122.15
1	A	1573	PHE	N-CA-C	7.74	119.72	111.28
3	C	2827	ILE	N-CA-C	-7.73	102.74	110.62
3	C	2677	LYS	N-CA-C	-7.72	102.19	111.69
16	P	56	SER	CB-CA-C	-7.70	96.60	110.70
1	A	1067	PRO	N-CD-CG	-7.70	91.66	103.20
3	C	2769	LEU	O-C-N	7.64	130.87	122.15
3	C	2727	ILE	CA-C-O	-7.60	112.80	120.85
3	C	372	GLY	CA-C-N	7.59	128.19	119.99
3	C	372	GLY	C-N-CA	7.59	128.19	119.99
2	B	72	THR	N-CA-CB	7.58	122.80	110.97
3	C	2801	GLU	N-CA-C	-7.56	103.04	111.28
16	P	62	LYS	CA-C-N	-7.56	107.10	121.54
16	P	62	LYS	C-N-CA	-7.56	107.10	121.54
3	C	2759	LYS	CB-CA-C	-7.55	107.85	116.54
3	C	2725	ALA	CA-C-O	-7.54	112.42	120.42
3	C	2718	GLY	CA-C-O	-7.54	112.67	120.66
3	C	2722	VAL	CA-C-O	-7.54	112.86	120.85
3	C	2809	ALA	N-CA-C	-7.53	103.07	111.28
3	C	2762	GLU	O-C-N	7.51	130.09	122.12
3	C	2820	ILE	N-CA-C	-7.51	103.22	110.42
3	C	2823	TYR	N-CA-C	-7.49	103.12	111.28
3	C	2695	LYS	O-C-N	7.46	130.03	122.12
16	P	60	PHE	N-CA-CB	7.41	120.76	110.01
3	C	2719	VAL	CA-C-O	-7.41	113.73	118.69
3	C	2830	VAL	N-CA-C	-7.41	103.31	110.42
3	C	2823	TYR	O-C-N	7.38	129.95	122.12
3	C	2834	ARG	N-CA-C	-7.31	103.39	111.36
3	C	2719	VAL	CA-C-N	7.28	126.54	118.97
3	C	2719	VAL	C-N-CA	7.28	126.54	118.97
3	C	2812	GLY	O-C-N	7.27	129.17	122.19
3	C	2812	GLY	CA-C-O	-7.23	112.80	120.90
3	C	2741	ASP	CA-CB-CG	-7.22	105.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	71	CYS	CB-CA-C	7.21	124.78	110.42
3	C	2845	GLU	N-CA-C	-7.20	103.52	111.36
2	B	56	ASP	CA-C-N	7.17	133.11	123.00
2	B	56	ASP	C-N-CA	7.17	133.11	123.00
3	C	2723	PHE	CA-C-O	-7.15	113.31	120.82
17	Q	152	ASN	CA-C-N	7.11	126.94	119.05
17	Q	152	ASN	C-N-CA	7.11	126.94	119.05
3	C	2870	ALA	O-C-N	7.09	129.38	122.07
3	C	470	LEU	N-CA-CB	7.09	121.85	110.65
1	A	1268	ARG	CB-CA-C	7.09	124.21	110.46
3	C	2721	GLU	CA-C-O	-7.08	112.92	120.42
1	A	1067	PRO	CA-N-CD	-7.04	102.14	112.00
3	C	2718	GLY	O-C-N	6.97	128.96	122.19
3	C	2827	ILE	CA-C-O	-6.96	113.71	120.95
3	C	2682	GLN	N-CA-C	-6.95	103.63	111.07
3	C	2776	ASP	O-C-N	6.92	131.38	122.87
3	C	2649	LYS	N-CA-C	-6.91	102.97	111.33
3	C	2765	MET	O-C-N	6.87	129.15	122.07
3	C	2636	LYS	O-C-N	-6.87	114.32	122.15
3	C	464	GLY	O-C-N	-6.82	113.83	122.70
3	C	2808	ALA	O-C-N	6.82	129.92	122.15
1	A	1067	PRO	N-CA-CB	6.80	109.66	103.20
3	C	2867	LYS	N-CA-C	-6.79	103.81	111.07
2	B	99	LEU	O-C-N	6.78	131.61	122.59
3	C	2785	VAL	CB-CA-C	-6.77	102.88	112.22
3	C	2666	CYS	N-CA-C	-6.75	103.73	112.23
1	A	1204	LYS	CA-C-N	6.75	129.32	120.28
1	A	1204	LYS	C-N-CA	6.75	129.32	120.28
3	C	364	ILE	CA-C-N	6.74	135.28	122.60
3	C	364	ILE	C-N-CA	6.74	135.28	122.60
1	A	1464	VAL	N-CA-C	-6.74	106.92	113.53
3	C	465	LEU	N-CA-CB	6.72	121.86	111.24
3	C	2815	SER	CA-C-O	-6.70	113.80	120.70
2	B	168	ILE	N-CA-C	-6.68	103.97	110.72
1	A	1529	ASP	N-CA-C	6.65	118.19	111.07
5	E	144	ASN	CA-C-N	-6.63	111.46	120.87
5	E	144	ASN	C-N-CA	-6.63	111.46	120.87
1	A	100	ASN	CA-C-N	6.61	128.10	119.84
1	A	100	ASN	C-N-CA	6.61	128.10	119.84
3	C	2874	LYS	N-CA-C	-6.61	104.08	111.28
3	C	2827	ILE	CA-C-N	6.60	129.13	120.28
3	C	2827	ILE	C-N-CA	6.60	129.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2656	ASN	CA-C-N	6.59	129.65	120.29
3	C	2656	ASN	C-N-CA	6.59	129.65	120.29
3	C	2652	VAL	CA-C-N	6.58	129.39	120.44
3	C	2652	VAL	C-N-CA	6.58	129.39	120.44
3	C	470	LEU	CB-CA-C	-6.58	100.15	110.74
4	D	188	GLU	CA-C-N	6.58	127.15	120.38
4	D	188	GLU	C-N-CA	6.58	127.15	120.38
3	C	2742	LYS	CA-C-N	-6.57	112.76	122.35
3	C	2742	LYS	C-N-CA	-6.57	112.76	122.35
3	C	2773	ASP	CA-C-O	-6.56	113.47	120.42
3	C	2816	TRP	N-CA-C	-6.55	103.03	111.02
3	C	2664	ASP	N-CA-C	-6.54	104.08	111.07
1	A	1524	VAL	N-CA-C	6.52	116.68	110.42
3	C	2659	ALA	N-CA-C	-6.52	104.26	111.82
16	P	61	GLU	O-C-N	6.49	131.57	122.36
3	C	2851	LEU	CA-C-N	6.47	131.64	120.58
3	C	2851	LEU	C-N-CA	6.47	131.64	120.58
3	C	2789	LYS	CA-C-O	-6.46	113.58	120.42
2	B	56	ASP	O-C-N	-6.45	114.81	123.19
3	C	2716	PRO	CB-CA-C	-6.44	102.89	112.55
2	B	22	LEU	CA-C-N	6.39	127.08	119.98
2	B	22	LEU	C-N-CA	6.39	127.08	119.98
3	C	2674	GLU	CA-C-N	6.38	128.74	120.44
3	C	2674	GLU	C-N-CA	6.38	128.74	120.44
3	C	2826	VAL	CA-C-O	-6.36	114.11	120.85
2	B	4	HIS	O-C-N	6.33	126.22	121.47
3	C	2661	ILE	CA-C-N	6.33	129.94	120.31
3	C	2661	ILE	C-N-CA	6.33	129.94	120.31
3	C	2908	GLU	N-CA-C	-6.33	104.47	111.36
3	C	2643	GLU	N-CA-C	-6.32	104.47	111.36
3	C	2678	SER	CA-C-N	6.31	128.74	120.28
3	C	2678	SER	C-N-CA	6.31	128.74	120.28
2	B	71	CYS	N-CA-CB	6.31	121.16	110.49
1	A	340	PRO	N-CA-CB	6.31	109.98	103.23
3	C	2663	ALA	CA-C-O	-6.30	113.25	120.24
1	A	943	THR	CA-C-N	-6.29	111.31	122.07
1	A	943	THR	C-N-CA	-6.29	111.31	122.07
3	C	2659	ALA	CA-C-O	-6.27	112.76	119.97
3	C	2756	LYS	N-CA-C	-6.25	105.52	113.01
3	C	2803	MET	O-C-N	6.22	128.72	122.12
3	C	2846	GLU	N-CA-C	-6.22	104.41	111.07
1	A	930	PHE	CA-CB-CG	-6.18	107.62	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	62	LYS	CB-CA-C	-6.18	98.12	110.42
3	C	2844	LEU	CA-C-N	6.16	129.04	120.29
3	C	2844	LEU	C-N-CA	6.16	129.04	120.29
1	A	1419	ILE	O-C-N	6.15	127.83	121.87
1	A	931	PHE	CA-CB-CG	-6.14	107.66	113.80
1	A	1568	ASP	N-CA-C	6.13	117.65	110.97
3	C	2641	PHE	O-C-N	6.12	128.70	122.09
3	C	542	LYS	N-CA-C	6.11	119.56	111.75
3	C	2790	ASN	CA-C-O	-6.10	114.08	120.55
1	A	1211	GLU	CA-C-N	6.08	128.43	120.28
1	A	1211	GLU	C-N-CA	6.08	128.43	120.28
3	C	2844	LEU	CA-C-O	-6.02	113.05	119.97
3	C	2660	THR	N-CA-CB	6.01	119.16	110.20
3	C	2863	GLU	O-C-N	6.01	128.26	122.07
3	C	2785	VAL	O-C-N	6.00	128.01	121.83
1	A	1525	PHE	N-CA-C	6.00	117.90	111.36
3	C	2715	PRO	CA-C-N	6.00	125.38	118.85
3	C	2715	PRO	C-N-CA	6.00	125.38	118.85
1	A	1208	TYR	CA-C-O	-5.99	114.20	120.55
2	B	109	VAL	CA-C-N	-5.99	110.96	120.55
2	B	109	VAL	C-N-CA	-5.99	110.96	120.55
2	B	2838	THR	CA-C-N	5.99	125.12	120.33
2	B	2838	THR	C-N-CA	5.99	125.12	120.33
3	C	2719	VAL	N-CA-C	-5.99	105.17	112.35
3	C	2653	GLU	N-CA-C	-5.97	104.69	111.14
3	C	2789	LYS	O-C-N	5.95	128.93	122.15
1	A	1630	LEU	N-CA-C	5.94	117.43	111.07
3	C	2766	GLU	N-CA-C	-5.94	104.81	111.28
3	C	2877	ALA	O-C-N	5.92	128.90	122.15
3	C	2808	ALA	CA-C-O	-5.92	114.15	120.42
1	A	4311	GLY	CA-C-O	-5.92	118.15	122.23
2	B	1423	TYR	N-CA-C	5.91	120.09	112.41
16	P	15	SER	O-C-N	5.91	130.01	123.33
3	C	2644	VAL	O-C-N	5.89	127.90	121.83
3	C	2788	VAL	CA-C-O	-5.88	114.62	120.85
3	C	2738	ILE	O-C-N	5.86	129.33	123.18
3	C	2656	ASN	CA-C-O	-5.85	113.75	120.24
1	A	1066	VAL	N-CA-CB	-5.84	103.15	110.33
3	C	2720	PRO	N-CA-CB	5.83	109.47	103.23
17	Q	179	TYR	O-C-N	-5.83	115.78	122.89
3	C	2726	THR	N-CA-CB	5.80	118.74	110.16
3	C	2878	GLU	N-CA-C	-5.80	104.96	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	109	VAL	O-C-N	5.79	129.81	122.57
2	B	1523	LYS	O-C-N	5.79	128.04	122.07
3	C	2833	LYS	O-C-N	5.79	128.75	122.15
2	B	1126	LYS	CB-CA-C	-5.78	109.93	116.63
3	C	2699	ASN	CA-C-O	-5.76	112.27	120.51
1	A	283	PRO	N-CA-CB	5.75	109.61	103.52
2	B	307	PRO	N-CA-C	-5.75	100.63	112.47
3	C	476	THR	N-CA-C	5.74	118.83	109.59
2	B	287	GLU	CA-C-N	5.74	127.97	120.28
2	B	287	GLU	C-N-CA	5.74	127.97	120.28
3	C	465	LEU	CB-CA-C	-5.74	100.09	111.91
3	C	2824	TYR	CA-C-N	5.73	128.43	120.29
3	C	2824	TYR	C-N-CA	5.73	128.43	120.29
3	C	2797	SER	CB-CA-C	-5.72	109.99	116.63
16	P	59	ASP	CB-CA-C	-5.71	102.30	111.39
3	C	2811	LYS	CA-C-O	-5.70	114.51	120.55
3	C	2670	LYS	CA-C-O	-5.69	113.93	120.24
16	P	62	LYS	N-CA-CB	5.68	120.09	110.49
2	B	1376	LEU	CA-C-N	5.67	125.03	118.85
2	B	1376	LEU	C-N-CA	5.67	125.03	118.85
3	C	2804	ALA	O-C-N	5.67	128.13	122.12
1	A	1562	ILE	CA-C-N	5.66	125.34	119.05
1	A	1562	ILE	C-N-CA	5.66	125.34	119.05
3	C	2726	THR	CA-CB-CG2	5.65	120.11	110.50
3	C	2644	VAL	CB-CA-C	-5.62	104.47	112.22
3	C	2837	LEU	CA-C-O	-5.62	114.00	120.24
3	C	2722	VAL	O-C-N	5.61	127.61	121.83
3	C	2854	VAL	O-C-N	-5.60	116.43	121.87
3	C	2747	LYS	O-C-N	5.60	128.86	123.04
3	C	468	GLU	CB-CA-C	-5.59	100.94	109.89
3	C	2833	LYS	CA-C-O	-5.59	114.50	120.42
3	C	2870	ALA	CA-C-N	-5.58	113.18	120.44
3	C	2870	ALA	C-N-CA	-5.58	113.18	120.44
3	C	2667	GLY	CA-C-O	-5.58	114.65	120.90
3	C	2848	THR	CA-C-O	-5.58	114.05	120.24
3	C	2772	LYS	O-C-N	5.57	128.50	122.15
3	C	2804	ALA	N-CA-C	-5.57	105.20	111.28
2	B	1208	LYS	CA-C-N	5.57	127.74	120.28
2	B	1208	LYS	C-N-CA	5.57	127.74	120.28
3	C	2785	VAL	CA-C-O	-5.57	114.95	120.85
3	C	2649	LYS	CA-C-N	5.56	127.73	120.28
3	C	2649	LYS	C-N-CA	5.56	127.73	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	515	ASP	CA-CB-CG	5.56	118.16	112.60
3	C	1677	ARG	CA-C-N	5.55	127.71	120.28
3	C	1677	ARG	C-N-CA	5.55	127.71	120.28
16	P	60	PHE	N-CA-C	5.55	117.00	111.07
7	G	24	SER	CB-CA-C	-5.54	110.20	116.63
3	C	2658	LYS	CA-C-N	5.54	128.73	120.31
3	C	2658	LYS	C-N-CA	5.54	128.73	120.31
3	C	3636	GLY	CA-C-O	-5.54	118.47	122.45
3	C	2792	TYR	CA-C-O	-5.53	114.56	120.42
2	B	1525	TRP	N-CA-C	-5.53	105.25	111.28
2	B	1451	TRP	N-CA-C	5.51	118.22	111.82
18	R	82	ALA	O-C-N	5.50	129.71	123.27
3	C	2749	VAL	N-CA-CB	5.50	118.20	111.60
2	B	5	SER	CA-C-N	5.49	132.03	121.54
2	B	5	SER	C-N-CA	5.49	132.03	121.54
3	C	2800	PRO	O-C-N	5.47	129.07	122.23
3	C	2834	ARG	CA-C-O	-5.47	114.62	120.42
2	B	72	THR	N-CA-C	-5.47	101.02	108.24
3	C	2681	GLN	CA-C-N	5.46	127.55	120.44
3	C	2681	GLN	C-N-CA	5.46	127.55	120.44
3	C	2871	GLU	CA-C-N	5.46	128.14	120.28
3	C	2871	GLU	C-N-CA	5.46	128.14	120.28
3	C	2723	PHE	N-CA-C	-5.46	105.23	111.07
3	C	2878	GLU	CA-C-N	5.45	127.58	120.28
3	C	2878	GLU	C-N-CA	5.45	127.58	120.28
3	C	2784	ASN	OD1-CG-ND2	-5.44	117.16	122.60
2	B	903	ARG	CA-C-N	-5.44	115.50	123.00
2	B	903	ARG	C-N-CA	-5.44	115.50	123.00
3	C	2682	GLN	CA-C-N	5.43	127.56	120.28
3	C	2682	GLN	C-N-CA	5.43	127.56	120.28
4	D	229	ASP	CB-CA-C	-5.43	110.33	116.63
3	C	2675	ALA	CA-C-N	5.43	128.56	120.31
3	C	2675	ALA	C-N-CA	5.43	128.56	120.31
7	G	46	HIS	CB-CA-C	-5.43	110.33	116.63
2	B	3796	ARG	CA-C-N	5.42	124.67	120.33
2	B	3796	ARG	C-N-CA	5.42	124.67	120.33
3	C	2790	ASN	CA-C-N	5.42	127.54	120.28
3	C	2790	ASN	C-N-CA	5.42	127.54	120.28
3	C	2909	ARG	N-CA-C	-5.42	105.45	111.36
2	B	864	ASN	CA-CB-CG	5.40	118.00	112.60
1	A	332	PRO	N-CA-CB	5.40	109.22	103.39
2	B	290	ARG	CA-C-N	5.40	127.52	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	290	ARG	C-N-CA	5.40	127.52	120.28
2	B	1521	VAL	N-CA-C	-5.39	106.55	111.67
3	C	2778	ASN	OD1-CG-ND2	-5.39	117.21	122.60
3	C	2829	ASP	CA-C-O	-5.39	114.71	120.42
5	E	109	VAL	N-CA-C	5.38	116.11	110.62
1	A	1207	ILE	CA-C-N	5.38	127.49	120.28
1	A	1207	ILE	C-N-CA	5.38	127.49	120.28
3	C	1853	PHE	CA-C-N	5.38	126.07	119.99
3	C	1853	PHE	C-N-CA	5.38	126.07	119.99
1	A	2090	ASP	CA-C-N	5.38	123.63	120.24
1	A	2090	ASP	C-N-CA	5.38	123.63	120.24
3	C	2923	LEU	CA-C-N	5.37	127.48	120.28
3	C	2923	LEU	C-N-CA	5.37	127.48	120.28
3	C	2776	ASP	CA-C-O	-5.37	115.28	121.19
3	C	2798	PHE	CA-CB-CG	5.36	119.16	113.80
18	R	80	LYS	CB-CA-C	-5.35	110.42	116.63
3	C	2837	LEU	CA-C-N	5.35	127.71	120.44
3	C	2837	LEU	C-N-CA	5.35	127.71	120.44
3	C	2841	THR	CA-C-O	-5.35	114.30	120.24
16	P	50	TYR	CA-C-N	-5.34	112.71	120.29
16	P	50	TYR	C-N-CA	-5.34	112.71	120.29
16	P	61	GLU	CB-CA-C	-5.33	99.90	109.24
12	L	8	GLU	CB-CA-C	-5.33	110.41	116.54
3	C	2645	VAL	CA-C-O	-5.33	115.20	120.85
3	C	2640	ALA	N-CA-CB	5.30	117.84	109.94
3	C	2642	ALA	CA-C-N	5.29	127.81	120.29
3	C	2642	ALA	C-N-CA	5.29	127.81	120.29
2	B	75	TYR	CB-CA-C	-5.28	110.51	116.63
1	A	3261	LYS	CB-CA-C	-5.28	110.51	116.63
3	C	2864	GLU	CA-C-N	5.27	127.87	120.28
3	C	2864	GLU	C-N-CA	5.27	127.87	120.28
3	C	2675	ALA	O-C-N	-5.27	116.65	122.07
3	C	2793	LEU	O-C-N	5.26	127.49	122.07
2	B	1418	LEU	N-CA-C	-5.25	101.87	109.59
3	C	2822	LYS	O-C-N	5.25	128.13	122.15
1	A	1268	ARG	N-CA-C	-5.25	105.03	111.75
3	C	2855	GLU	CA-C-O	-5.25	114.86	120.42
3	C	2812	GLY	N-CA-C	-5.24	106.16	112.49
1	A	1401	ILE	N-CA-C	5.23	115.44	110.42
3	C	2789	LYS	N-CA-C	-5.23	105.66	111.36
2	B	403	GLY	CA-C-O	-5.22	118.06	122.29
3	C	468	GLU	N-CA-CB	5.22	117.63	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1329	ASP	N-CA-C	5.22	116.78	111.14
3	C	3883	SER	CA-C-N	5.21	125.05	120.10
3	C	3883	SER	C-N-CA	5.21	125.05	120.10
3	C	2837	LEU	N-CA-C	-5.21	105.28	111.69
3	C	2835	LYS	N-CA-C	-5.21	105.50	111.07
2	B	144	ASP	CB-CA-C	-5.20	110.56	116.54
3	C	390	THR	CB-CA-C	-5.20	110.16	117.23
3	C	2771	PHE	CA-CB-CG	5.20	119.00	113.80
3	C	2919	ASP	O-C-N	5.20	127.63	122.12
3	C	2773	ASP	O-C-N	5.20	128.07	122.15
1	A	1635	THR	N-CA-C	5.19	116.94	111.28
3	C	2663	ALA	CA-C-N	5.18	127.18	120.44
3	C	2663	ALA	C-N-CA	5.18	127.18	120.44
1	A	1338	SER	N-CA-C	5.18	116.93	111.28
3	C	2680	THR	CA-C-N	5.18	127.65	120.29
3	C	2680	THR	C-N-CA	5.18	127.65	120.29
3	C	2684	LEU	N-CA-C	-5.18	105.82	111.82
3	C	2819	ASN	CA-C-O	-5.17	114.94	120.42
2	B	23	GLY	O-C-N	5.17	127.15	122.19
12	L	10	ARG	N-CA-C	-5.16	105.72	112.23
2	B	4086	ILE	CA-C-N	5.16	125.81	120.03
2	B	4086	ILE	C-N-CA	5.16	125.81	120.03
3	C	2717	ALA	N-CA-C	-5.16	106.95	114.12
3	C	2674	GLU	CA-C-O	-5.15	114.96	120.42
3	C	2800	PRO	CB-CA-C	-5.15	104.83	112.55
4	D	236	MET	CB-CA-C	-5.15	110.66	116.63
3	C	2735	ASN	O-C-N	5.15	127.97	121.95
3	C	2656	ASN	N-CA-CB	5.14	117.86	110.20
2	B	4261	PRO	CA-C-N	5.13	127.41	120.38
2	B	4261	PRO	C-N-CA	5.13	127.41	120.38
17	Q	23	PRO	CA-C-N	-5.13	115.01	122.86
17	Q	23	PRO	C-N-CA	-5.13	115.01	122.86
3	C	2826	VAL	N-CA-C	-5.12	105.55	110.72
3	C	2801	GLU	CA-C-O	-5.12	115.13	120.55
2	B	99	LEU	CA-C-N	-5.11	111.78	121.54
2	B	99	LEU	C-N-CA	-5.11	111.78	121.54
4	D	226	VAL	N-CA-C	-5.11	105.56	110.72
2	B	72	THR	CB-CA-C	5.10	123.90	112.78
3	C	2856	GLU	N-CA-C	-5.10	105.61	111.07
3	C	2737	ALA	N-CA-CB	-5.09	102.15	109.83
3	C	2809	ALA	CA-C-O	-5.08	115.16	120.55
3	C	2728	TYR	N-CA-C	-5.08	107.24	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2748	ASP	CA-C-O	-5.07	115.66	121.54
3	C	1101	PHE	CA-CB-CG	5.05	118.85	113.80
3	C	2677	LYS	CA-C-N	5.05	127.31	120.44
3	C	2677	LYS	C-N-CA	5.05	127.31	120.44
1	A	1280	TYR	CA-C-N	5.05	124.66	119.05
1	A	1280	TYR	C-N-CA	5.05	124.66	119.05
3	C	2664	ASP	CA-C-N	5.05	127.05	120.28
3	C	2664	ASP	C-N-CA	5.05	127.05	120.28
2	B	294	THR	CA-C-N	5.05	127.05	120.28
2	B	294	THR	C-N-CA	5.05	127.05	120.28
2	B	15	ILE	N-CA-C	5.04	116.50	111.00
3	C	2735	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	A	816	VAL	CA-C-O	-5.04	116.17	121.41
2	B	59	THR	N-CA-C	-5.03	106.83	113.17
3	C	2722	VAL	N-CA-C	-5.03	105.64	110.72
3	C	2823	TYR	CA-C-O	-5.03	115.22	120.55
3	C	2655	GLU	N-CA-C	-5.02	105.99	111.82
7	G	28	ASN	CB-CA-C	-5.02	110.77	116.54
2	B	2959	LEU	CA-C-N	5.01	124.34	120.33
2	B	2959	LEU	C-N-CA	5.01	124.34	120.33
3	C	2787	ILE	N-CA-CB	5.01	116.42	110.55
2	B	1357	ARG	CB-CA-C	-5.00	110.43	117.23

There are no chirality outliers.

All (32) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1171	ILE	Mainchain,Peptide
1	A	121	GLY	Mainchain
1	A	1649	ALA	Mainchain
2	B	109	VAL	Mainchain
2	B	1166	GLU	Mainchain
2	B	1462	LYS	Peptide
2	B	25	GLN	Peptide
2	B	49	PHE	Mainchain,Peptide
2	B	56	ASP	Mainchain
2	B	59	THR	Mainchain
2	B	84	PHE	Mainchain
2	B	909	SER	Mainchain
2	B	99	LEU	Mainchain
3	C	2639	ASP	Mainchain
3	C	464	GLY	Mainchain

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Mol	Chain	Res	Type	Group
4	D	233	ASP	Peptide
7	G	16	ILE	Mainchain
7	G	17	ILE	Mainchain
7	G	18	GLN	Mainchain
7	G	28	ASN	Peptide
7	G	30	ILE	Mainchain
7	G	31	TYR	Mainchain
7	G	32	GLN	Mainchain
7	G	33	LYS	Mainchain
7	G	34	SER	Mainchain
7	G	35	LEU	Mainchain
7	G	36	LYS	Mainchain
7	G	37	ARG	Mainchain
16	P	62	LYS	Mainchain
16	P	70	ASP	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	A	33975	0	32349	2921	0
2	B	34713	0	33234	2580	0
3	C	30427	0	29349	1432	0
4	D	4680	0	4509	1343	0
5	E	4440	0	4304	1029	0
6	F	996	0	1019	266	0
7	G	1024	0	883	191	0
8	H	750	0	734	231	0
9	I	827	0	826	300	0
10	J	807	0	772	269	0
11	K	754	0	715	133	0
12	L	855	0	854	212	0
13	M	735	0	735	237	0
14	N	852	0	796	196	0
15	O	994	0	1017	308	0
16	P	541	0	217	58	0
17	Q	1001	0	490	289	0
18	R	739	156	339	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	A	54	0	23	34	0
19	B	54	0	24	19	0
19	C	54	0	22	34	0
20	A	31	0	12	10	0
20	B	31	0	12	44	0
20	C	31	0	12	1	0
21	A	3	0	0	2	0
21	B	3	0	0	0	0
21	C	3	0	0	0	0
All	All	119374	156	113247	9584	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 41.

All (9584) 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)
10:J:86:CYS:SG	11:K:61:VAL:HG22	1.24	1.74
2:B:1474:MET:SD	2:B:1515:VAL:HG11	1.32	1.66
1:A:935:VAL:HG22	1:A:944:LEU:CD2	1.23	1.65
1:A:3232:ILE:HG12	1:A:3316:TRP:CZ3	1.14	1.65
3:C:196:PRO:HA	3:C:239:TRP:CZ2	1.23	1.64
2:B:544:HIS:CE1	2:B:609:LEU:HD12	1.32	1.64
1:A:1445:PHE:CE2	1:A:1564:CYS:HB3	1.14	1.63
2:B:939:ASN:CA	3:C:283:THR:CG2	1.76	1.63
2:B:939:ASN:HA	3:C:283:THR:CG2	1.27	1.63
3:C:2740:ILE:HG21	3:C:2744:LYS:CB	1.21	1.63
1:A:3235:TYR:CE2	1:A:3269:LEU:HD13	1.25	1.63
14:N:25:PHE:CE1	14:N:103:ILE:HG21	1.17	1.63
1:A:3121:LEU:HD21	1:A:3429:TRP:CB	1.16	1.62
2:B:864:ASN:HB2	2:B:947:LEU:CD2	1.15	1.62
2:B:436:PHE:CE1	2:B:499:LEU:CD2	1.77	1.62
2:B:952:PRO:CD	3:C:223:THR:HA	1.28	1.62
2:B:1238:LYS:CE	2:B:1308:LEU:HA	1.22	1.62
2:B:3118:TYR:CE2	2:B:3452:LEU:HA	1.26	1.61
4:D:207:ALA:CB	9:I:24:ILE:HD11	1.30	1.61
2:B:1447:ILE:CG2	2:B:1504:TRP:HE1	0.97	1.61
4:D:177:ASN:HD21	13:M:60:ASN:CB	1.02	1.61
4:D:170:THR:CG2	13:M:66:ILE:CG1	1.74	1.61
2:B:429:LEU:HD12	2:B:489:PHE:CE2	1.32	1.60
2:B:864:ASN:CB	2:B:947:LEU:HG	1.31	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2745:LYS:HD2	3:C:2749:VAL:CG2	1.19	1.60
2:B:801:ILE:HD12	2:B:878:ALA:CA	1.26	1.60
2:B:58:SER:HA	2:B:83:LYS:CB	1.27	1.60
5:E:20:PHE:CZ	15:O:80:LYS:HG3	1.10	1.60
5:E:20:PHE:CE2	15:O:80:LYS:HE3	1.36	1.60
1:A:1525:PHE:HB2	1:A:1541:PHE:CD2	1.36	1.60
2:B:582:MET:HE2	2:B:587:GLY:CA	1.18	1.60
2:B:956:LEU:HD23	3:C:285:SER:CB	1.16	1.60
1:A:1205:GLN:NE2	4:D:166:PHE:CE2	1.68	1.59
2:B:555:LEU:CD2	2:B:625:LEU:CD2	1.79	1.59
2:B:744:MET:SD	2:B:772:ILE:HG13	1.40	1.59
1:A:3290:LEU:HD22	1:A:3335:TRP:CZ2	1.09	1.59
2:B:963:PHE:CZ	3:C:39:LEU:CD2	1.78	1.59
1:A:597:VAL:HG13	4:D:502:ALA:CB	1.20	1.59
6:F:56:TRP:CD1	6:F:91:GLN:HE22	0.97	1.59
1:A:793:GLN:HB3	5:E:451:LYS:CB	1.20	1.58
1:A:3257:VAL:HG21	1:A:3266:VAL:CG1	1.16	1.58
4:D:172:GLU:CB	13:M:64:HIS:HB3	1.26	1.58
3:C:2745:LYS:CD	3:C:2749:VAL:HG21	1.24	1.58
2:B:669:ILE:CB	2:B:719:VAL:HG11	1.22	1.58
6:F:48:ILE:HD11	6:F:98:LEU:CD2	1.12	1.58
2:B:864:ASN:CA	2:B:947:LEU:HG	1.32	1.57
2:B:956:LEU:CD2	3:C:285:SER:HB3	1.28	1.57
2:B:1329:PRO:HA	2:B:1412:PHE:CB	1.20	1.57
1:A:891:PHE:CE1	1:A:972:TRP:CE3	1.88	1.57
3:C:2726:THR:HA	3:C:2729:LEU:CD1	1.14	1.57
6:F:48:ILE:CD1	6:F:98:LEU:HD23	1.26	1.57
1:A:2839:LEU:HD12	19:A:4703:ADP:C2	1.07	1.56
1:A:3232:ILE:CG1	1:A:3316:TRP:CZ3	1.79	1.56
2:B:669:ILE:HB	2:B:719:VAL:CG1	1.33	1.56
2:B:1058:LYS:CG	2:B:1166:GLU:HB3	1.29	1.56
2:B:429:LEU:CD1	2:B:489:PHE:CE2	1.88	1.56
2:B:966:LYS:HD2	3:C:345:TRP:CD2	1.34	1.56
2:B:1511:VAL:CB	2:B:1570:VAL:HG21	1.17	1.56
14:N:72:ILE:HG23	15:O:97:ILE:CG1	1.33	1.56
2:B:3:ASP:CB	2:B:7:LYS:CA	1.78	1.56
2:B:10:PRO:HA	2:B:25:GLN:CA	1.35	1.56
2:B:3:ASP:CB	2:B:7:LYS:HA	1.19	1.56
2:B:864:ASN:CB	2:B:947:LEU:CG	1.81	1.56
3:C:2740:ILE:CG2	3:C:2744:LYS:HB2	1.27	1.56
5:E:117:GLU:HG3	6:F:17:LEU:CD1	1.17	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:68:LEU:C	17:Q:92:ASP:CB	1.79	1.56
1:A:3245:LYS:NZ	17:Q:148:LEU:CB	1.68	1.55
4:D:251:MET:HB3	7:G:136:MET:CE	1.15	1.55
1:A:1146:GLN:CG	13:M:9:ALA:CB	1.75	1.55
5:E:117:GLU:CG	6:F:17:LEU:HD11	1.32	1.55
2:B:444:LEU:CA	5:E:515:LYS:HG3	1.35	1.55
1:A:785:HIS:CE1	4:D:391:ARG:NH2	1.69	1.54
3:C:2711:SER:HB3	3:C:2751:TRP:CZ2	1.35	1.54
5:E:16:ASN:CB	15:O:132:GLU:HG3	1.28	1.54
2:B:582:MET:CE	2:B:587:GLY:HA2	1.11	1.54
2:B:1488:LYS:CB	2:B:1501:VAL:HG11	1.35	1.54
14:N:25:PHE:CE1	14:N:103:ILE:CG2	1.85	1.54
2:B:444:LEU:HA	5:E:515:LYS:CG	1.32	1.54
2:B:409:SER:CB	2:B:413:PHE:CD1	1.89	1.53
2:B:3153:LEU:HD13	2:B:3707:LEU:CD1	1.33	1.53
5:E:61:VAL:CG2	10:J:106:LEU:HD22	1.32	1.53
2:B:17:ARG:N	2:B:17:ARG:CA	1.69	1.53
1:A:3249:ILE:CG1	1:A:3273:TYR:HA	1.32	1.53
2:B:954:ASP:HB2	3:C:220:TRP:CZ2	1.37	1.53
2:B:3446:SER:CB	2:B:3489:THR:HG23	1.35	1.53
4:D:395:HIS:NE2	4:D:399:VAL:CG1	1.69	1.53
4:D:569:TYR:CZ	4:D:578:LYS:HG2	1.43	1.52
5:E:20:PHE:CZ	15:O:80:LYS:CG	1.88	1.52
8:H:66:GLY:HA3	9:I:56:ILE:CG2	1.07	1.52
1:A:3232:ILE:HG12	1:A:3316:TRP:CE3	1.45	1.52
2:B:10:PRO:CB	2:B:25:GLN:HA	1.32	1.52
6:F:11:LEU:HD22	6:F:23:TYR:CE1	1.02	1.52
2:B:952:PRO:HG3	3:C:223:THR:CB	1.38	1.52
2:B:3118:TYR:HE2	2:B:3452:LEU:CA	1.23	1.51
6:F:91:GLN:HG2	6:F:96:THR:CG2	1.35	1.51
1:A:3235:TYR:CE2	1:A:3269:LEU:CD1	1.90	1.51
2:B:2334:TYR:N	20:B:5403:ATP:H2	1.07	1.51
2:B:3153:LEU:CD1	2:B:3707:LEU:HD11	1.07	1.51
1:A:2839:LEU:CD1	19:A:4703:ADP:N1	1.71	1.51
2:B:939:ASN:C	3:C:283:THR:CG2	1.78	1.51
2:B:1395:LEU:CB	2:B:1430:ILE:HD13	1.03	1.51
2:B:1456:PHE:CZ	2:B:1563:VAL:CG1	1.92	1.51
2:B:10:PRO:CA	2:B:25:GLN:CA	1.85	1.51
6:F:14:LEU:CD2	6:F:23:TYR:HB3	1.39	1.51
1:A:156:VAL:H	2:B:168:ILE:CA	1.19	1.50
2:B:501:ARG:NH2	4:D:491:GLN:CG	1.68	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:704:ARG:HH11	4:D:456:LEU:C	1.14	1.50
3:C:60:LEU:HD21	3:C:69:TRP:CZ3	1.47	1.50
6:F:11:LEU:CD2	6:F:23:TYR:CE1	1.94	1.50
2:B:969:LEU:CD1	3:C:343:ASN:CB	1.85	1.50
1:A:1009:THR:HB	1:A:1074:MET:SD	1.52	1.50
1:A:3232:ILE:CD1	1:A:3316:TRP:HZ3	1.24	1.50
2:B:1456:PHE:CE1	2:B:1563:VAL:HG12	1.47	1.50
3:C:2738:ILE:CA	3:C:2746:PRO:HG3	1.36	1.50
4:D:297:LYS:NZ	4:D:328:LEU:HB2	1.22	1.50
5:E:20:PHE:CD2	15:O:80:LYS:CE	1.91	1.50
1:A:3290:LEU:CD2	1:A:3335:TRP:CZ2	1.91	1.49
5:E:310:LEU:CG	5:E:358:ARG:NH2	1.71	1.49
1:A:580:LEU:CD2	1:A:640:SER:HB3	1.41	1.49
2:B:669:ILE:CD1	2:B:719:VAL:CG1	1.84	1.49
1:A:943:THR:C	1:A:944:LEU:N	1.69	1.48
1:A:3103:TYR:CE2	1:A:3444:VAL:HG22	1.47	1.48
2:B:349:ASN:CA	2:B:416:LEU:HD21	1.43	1.48
1:A:857:ARG:HH12	5:E:200:TRP:NE1	1.11	1.48
3:C:2721:GLU:HB2	3:C:2803:MET:CE	1.36	1.48
2:B:555:LEU:HD23	2:B:625:LEU:CD2	1.38	1.48
3:C:2701:ILE:HD11	3:C:2704:LYS:CD	1.03	1.48
8:H:66:GLY:CA	9:I:56:ILE:HG21	1.40	1.48
2:B:952:PRO:CG	3:C:223:THR:C	1.78	1.48
3:C:196:PRO:CA	3:C:239:TRP:HZ2	1.24	1.48
5:E:20:PHE:CD2	15:O:80:LYS:HE3	0.95	1.47
1:A:3251:ILE:N	17:Q:62:ILE:CB	1.72	1.47
1:A:2839:LEU:HD11	19:A:4703:ADP:C6	1.47	1.47
6:F:56:TRP:CE2	6:F:91:GLN:OE1	1.67	1.47
1:A:3121:LEU:CD2	1:A:3429:TRP:HB3	1.00	1.47
2:B:669:ILE:HD12	2:B:719:VAL:CG1	1.36	1.47
2:B:799:VAL:C	2:B:800:LYS:N	1.71	1.47
18:R:120:GLU:CB	18:R:124:THR:CB	1.93	1.47
1:A:3446:ASN:ND2	1:A:3488:LEU:HD13	1.27	1.47
4:D:172:GLU:HB3	13:M:64:HIS:CB	1.43	1.47
1:A:598:ARG:NH1	4:D:504:TYR:CB	1.78	1.46
1:A:1445:PHE:CE2	1:A:1564:CYS:CB	1.95	1.46
1:A:3257:VAL:CG2	1:A:3266:VAL:CG1	1.90	1.46
1:A:3308:PRO:HD3	17:Q:56:SER:C	1.07	1.46
2:B:1607:PRO:CG	2:B:1946:SER:HB3	1.38	1.46
3:C:2738:ILE:HA	3:C:2746:PRO:CG	1.38	1.46
2:B:3264:ASN:HB2	2:B:3306:ILE:CD1	1.43	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:14:LEU:HD23	6:F:23:TYR:CD2	1.51	1.46
2:B:963:PHE:CZ	3:C:39:LEU:HD22	0.93	1.46
18:R:82:ALA:C	18:R:83:ASN:N	1.71	1.46
2:B:1511:VAL:HA	2:B:1570:VAL:CG2	1.42	1.46
1:A:697:ARG:NH1	4:D:458:CYS:CB	1.77	1.45
3:C:165:GLY:O	3:C:174:PHE:CZ	1.65	1.45
4:D:115:TYR:OH	14:N:78:HIS:CD2	1.70	1.45
5:E:16:ASN:HB2	15:O:132:GLU:CA	1.40	1.45
1:A:3257:VAL:CB	1:A:3266:VAL:HG13	1.41	1.45
2:B:10:PRO:CA	2:B:25:GLN:HA	0.97	1.45
5:E:164:VAL:HG22	5:E:181:TYR:CE1	1.51	1.45
8:H:66:GLY:CA	9:I:56:ILE:CG2	1.91	1.45
2:B:939:ASN:CA	3:C:283:THR:HG21	1.34	1.45
4:D:111:MET:HE1	15:O:90:ILE:CG2	1.42	1.45
3:C:2721:GLU:CB	3:C:2803:MET:HE2	1.43	1.45
5:E:100:GLU:HB3	5:E:105:PHE:CD2	1.49	1.45
7:G:119:PRO:HD2	9:I:12:ILE:CD1	1.47	1.44
1:A:3106:LYS:HG2	1:A:3443:LEU:CD1	1.46	1.44
4:D:294:GLN:NE2	4:D:297:LYS:HE2	1.12	1.44
8:H:51:SER:HB2	18:R:32:LYS:CB	1.44	1.44
1:A:597:VAL:CG1	4:D:502:ALA:CB	1.94	1.44
1:A:1030:SER:O	1:A:1092:TRP:CH2	1.70	1.44
2:B:1511:VAL:CA	2:B:1570:VAL:HG21	1.48	1.44
8:H:54:HIS:CE1	18:R:62:LYS:HA	1.49	1.44
10:J:38:GLU:CD	15:O:29:PHE:CE2	1.93	1.44
1:A:3304:GLU:HB2	17:Q:78:SER:N	1.17	1.44
3:C:2709:ALA:HA	3:C:2758:MET:SD	1.58	1.44
1:A:1235:PRO:C	1:A:1252:PHE:CB	1.89	1.43
1:A:3257:VAL:CG1	1:A:3266:VAL:HG13	1.48	1.43
2:B:544:HIS:HE1	2:B:609:LEU:CD1	1.27	1.43
3:C:2701:ILE:HD11	3:C:2704:LYS:CE	1.46	1.43
1:A:1234:GLY:C	1:A:1252:PHE:CB	1.91	1.43
2:B:669:ILE:CB	2:B:719:VAL:CG1	1.87	1.43
2:B:3178:VAL:CG1	2:B:3395:LEU:HD21	1.47	1.43
5:E:20:PHE:CE2	15:O:80:LYS:HG3	1.51	1.43
1:A:2839:LEU:HD12	19:A:4703:ADP:N1	1.17	1.43
1:A:3106:LYS:CG	1:A:3443:LEU:HD21	1.47	1.43
2:B:349:ASN:CB	2:B:416:LEU:HD21	1.46	1.43
7:G:120:THR:CG2	9:I:12:ILE:HG23	1.45	1.43
1:A:1146:GLN:CD	13:M:9:ALA:HB1	1.02	1.42
2:B:798:ASN:HB3	2:B:874:ALA:CB	1.47	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:56:TRP:CD1	6:F:91:GLN:NE2	1.80	1.42
2:B:3:ASP:C	2:B:7:LYS:CB	1.91	1.42
2:B:1474:MET:CE	2:B:1515:VAL:HG11	1.47	1.42
2:B:903:ARG:CB	2:B:914:ASP:OD2	1.68	1.42
2:B:1447:ILE:HG21	2:B:1504:TRP:NE1	1.25	1.42
1:A:2839:LEU:CD1	19:A:4703:ADP:C2	1.95	1.42
2:B:682:LYS:NZ	5:E:186:PHE:CD1	1.71	1.42
2:B:1395:LEU:CB	2:B:1430:ILE:CD1	1.95	1.42
4:D:552:PRO:HD2	4:D:595:PHE:CD2	1.53	1.42
1:A:755:HIS:CE1	1:A:869:TYR:CD2	2.08	1.42
1:A:3251:ILE:HD12	17:Q:64:LYS:N	1.33	1.42
4:D:251:MET:CB	7:G:136:MET:HE1	0.94	1.42
5:E:20:PHE:CE2	15:O:80:LYS:CE	2.01	1.42
1:A:1012:LYS:CE	1:A:1071:ILE:HB	1.47	1.41
1:A:160:GLU:HA	2:B:167:GLN:CB	1.50	1.41
1:A:906:LEU:HD13	1:A:998:VAL:CG1	0.94	1.41
1:A:1146:GLN:NE2	13:M:9:ALA:HB1	1.28	1.41
1:A:3257:VAL:CG2	1:A:3266:VAL:HG13	1.46	1.41
2:B:1058:LYS:HG3	2:B:1166:GLU:CB	1.49	1.41
2:B:1485:MET:CB	2:B:1505:ARG:NE	1.81	1.41
3:C:2726:THR:CA	3:C:2729:LEU:HD12	1.50	1.41
1:A:697:ARG:NH1	4:D:458:CYS:HB3	1.26	1.41
2:B:1329:PRO:CA	2:B:1412:PHE:CB	1.99	1.41
1:A:857:ARG:NH2	5:E:207:SER:HA	1.17	1.40
2:B:444:LEU:HD23	5:E:515:LYS:CE	1.50	1.40
4:D:105:MET:HE1	14:N:47:THR:C	1.45	1.40
1:A:785:HIS:HE1	4:D:391:ARG:NH2	0.91	1.40
1:A:1020:PHE:CZ	1:A:1069:TYR:CE1	2.09	1.40
3:C:132:GLU:CD	3:C:133:PRO:HD2	1.44	1.40
5:E:492:ASP:HA	5:E:495:TYR:CE2	1.54	1.40
1:A:1513:LYS:CE	1:A:1578:ASN:HD21	1.31	1.40
1:A:3304:GLU:CB	17:Q:78:SER:H	1.34	1.40
14:N:25:PHE:CZ	14:N:103:ILE:HG21	1.54	1.40
16:P:11:THR:O	16:P:67:LEU:CB	1.67	1.40
3:C:2701:ILE:CD1	3:C:2704:LYS:CD	1.99	1.39
10:J:77:HIS:ND1	11:K:70:VAL:CG2	1.85	1.39
1:A:797:ASN:OD1	5:E:450:HIS:CE1	1.76	1.39
1:A:3308:PRO:CD	17:Q:56:SER:C	1.93	1.39
3:C:2792:TYR:O	3:C:2796:PRO:CG	1.66	1.39
10:J:61:ALA:HB2	10:J:80:PHE:CE2	1.56	1.39
1:A:612:HIS:CE1	4:D:522:ASP:OD2	1.74	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:LEU:CD1	1:A:998:VAL:HG11	0.92	1.39
1:A:1146:GLN:CG	13:M:9:ALA:HB1	1.34	1.39
2:B:10:PRO:HA	2:B:25:GLN:C	1.47	1.39
2:B:952:PRO:CB	3:C:223:THR:HA	1.52	1.39
2:B:2333:PRO:HB2	20:B:5403:ATP:N1	1.33	1.39
2:B:3150:VAL:HG12	2:B:3423:VAL:CG2	1.51	1.39
2:B:444:LEU:HD23	5:E:515:LYS:NZ	1.33	1.39
2:B:659:THR:HG22	2:B:757:TRP:CD1	1.58	1.39
2:B:3446:SER:HB2	2:B:3489:THR:CG2	1.48	1.39
6:F:56:TRP:CZ2	6:F:91:GLN:OE1	1.73	1.39
1:A:1205:GLN:CD	4:D:166:PHE:CD2	1.98	1.38
1:A:817:VAL:C	1:A:818:LEU:HD13	1.45	1.38
1:A:861:ASP:CG	5:E:152:LEU:CB	1.75	1.38
1:A:972:TRP:CZ3	1:A:985:PHE:CZ	2.12	1.38
14:N:72:ILE:CG2	15:O:97:ILE:HD11	1.53	1.38
1:A:1513:LYS:CD	1:A:1578:ASN:HD21	1.35	1.38
1:A:1525:PHE:CB	1:A:1541:PHE:HD2	1.32	1.38
1:A:3121:LEU:CD2	1:A:3429:TRP:CB	1.76	1.38
2:B:1447:ILE:CG2	2:B:1504:TRP:NE1	1.70	1.38
2:B:1456:PHE:CD2	2:B:1569:VAL:HG13	1.57	1.38
5:E:395:VAL:CG2	5:E:402:ILE:CD1	1.99	1.38
1:A:576:TYR:CE1	1:A:620:PRO:O	1.75	1.38
1:A:598:ARG:NH1	4:D:504:TYR:HB3	1.05	1.38
1:A:612:HIS:O	4:D:500:LEU:CD2	1.70	1.38
2:B:501:ARG:CZ	4:D:491:GLN:HG3	1.54	1.37
2:B:1467:PHE:CB	2:B:1470:LEU:HD11	1.52	1.37
4:D:90:ASP:OD2	13:M:32:LYS:HG3	1.20	1.37
16:P:15:SER:C	16:P:16:GLU:N	1.81	1.37
1:A:3251:ILE:CG1	17:Q:64:LYS:O	1.72	1.37
2:B:3:ASP:CB	2:B:7:LYS:CB	2.03	1.37
2:B:963:PHE:CE1	3:C:39:LEU:HD13	1.57	1.37
1:A:704:ARG:NH1	4:D:456:LEU:C	1.82	1.36
1:A:850:SER:OG	5:E:203:LEU:CD2	1.74	1.36
1:A:3351:PRO:N	1:A:3351:PRO:CA	1.71	1.36
1:A:1012:LYS:HE2	1:A:1071:ILE:CB	1.54	1.36
1:A:1146:GLN:CD	13:M:9:ALA:CB	1.86	1.36
2:B:952:PRO:HG2	3:C:223:THR:N	1.07	1.36
2:B:963:PHE:CE2	3:C:39:LEU:HD22	1.60	1.36
2:B:966:LYS:CA	3:C:343:ASN:O	1.72	1.36
2:B:3264:ASN:CB	2:B:3306:ILE:HD11	1.55	1.36
2:B:952:PRO:CB	3:C:223:THR:O	1.73	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1456:PHE:CZ	2:B:1563:VAL:HG12	1.55	1.36
2:B:1511:VAL:CA	2:B:1570:VAL:CG2	1.98	1.36
1:A:1633:ALA:CB	1:A:1839:LEU:O	1.74	1.36
1:A:3106:LYS:HG3	1:A:3443:LEU:CD2	1.53	1.36
3:C:265:LYS:HE2	3:C:356:THR:CG2	1.55	1.36
3:C:2720:PRO:HB2	3:C:2798:PHE:CE2	1.58	1.36
4:D:177:ASN:ND2	13:M:60:ASN:HB2	1.04	1.36
1:A:723:PHE:HE1	1:A:772:TRP:NE1	1.18	1.35
2:B:81:ILE:O	2:B:110:VAL:HA	1.22	1.35
2:B:669:ILE:CD1	2:B:719:VAL:HG13	0.89	1.35
2:B:1058:LYS:CE	2:B:1166:GLU:O	1.70	1.35
2:B:3228:GLU:HG3	2:B:3346:PHE:CE1	1.58	1.35
6:F:56:TRP:CE2	6:F:91:GLN:CD	1.99	1.35
1:A:737:TYR:CE1	1:A:759:LEU:HD23	1.62	1.35
1:A:1012:LYS:NZ	1:A:1072:GLY:H	0.89	1.35
2:B:956:LEU:CD2	3:C:285:SER:CB	1.88	1.35
3:C:2701:ILE:CD1	3:C:2704:LYS:HD2	1.56	1.35
18:R:82:ALA:C	18:R:83:ASN:CA	2.00	1.35
1:A:1012:LYS:NZ	1:A:1072:GLY:N	1.67	1.35
1:A:704:ARG:NH1	4:D:456:LEU:CA	1.89	1.35
4:D:75:LEU:HB2	15:O:102:LEU:CD1	1.54	1.35
5:E:100:GLU:CB	5:E:105:PHE:HD2	1.39	1.35
2:B:969:LEU:HD13	3:C:343:ASN:CB	1.42	1.35
2:B:433:ILE:HG23	2:B:463:PHE:CZ	1.61	1.34
2:B:857:LYS:CB	3:C:170:GLN:H	1.38	1.34
2:B:963:PHE:CE1	3:C:39:LEU:O	1.78	1.34
1:A:3304:GLU:CB	17:Q:78:SER:N	1.88	1.34
1:A:403:ALA:HB2	1:A:471:ASN:CB	1.55	1.34
2:B:669:ILE:CG1	2:B:719:VAL:CG1	2.06	1.34
2:B:1223:LYS:NZ	2:B:1277:ARG:CB	1.91	1.34
1:A:1151:MET:HE1	4:D:176:ILE:CA	1.55	1.33
1:A:1632:ASP:HB2	1:A:1892:PHE:CD1	1.62	1.33
1:A:3443:LEU:CD1	1:A:3493:PHE:HZ	1.40	1.33
2:B:3:ASP:O	2:B:7:LYS:CB	1.71	1.33
2:B:1511:VAL:HG22	2:B:1570:VAL:CB	1.55	1.33
2:B:2333:PRO:C	20:B:5403:ATP:H2	1.36	1.33
14:N:72:ILE:CG2	15:O:97:ILE:CD1	2.04	1.33
2:B:3301:ASN:ND2	2:B:3351:LYS:HZ2	1.23	1.33
3:C:2745:LYS:CE	3:C:2749:VAL:HG11	1.57	1.33
1:A:659:TRP:CZ2	1:A:702:LEU:HD11	1.63	1.33
1:A:1157:GLN:CG	1:A:1180:ARG:HH21	1.38	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:91:TYR:CE2	13:M:80:LEU:HB2	1.61	1.33
1:A:93:VAL:CB	1:A:125:PRO:CB	2.07	1.33
1:A:3231:ASP:OD2	1:A:3258:PHE:CD2	1.82	1.33
3:C:2727:ILE:O	3:C:2730:LEU:HD11	1.24	1.33
10:J:86:CYS:SG	11:K:61:VAL:CG2	2.15	1.33
1:A:686:VAL:CG2	1:A:731:LEU:HD23	1.57	1.33
1:A:1157:GLN:HG2	1:A:1180:ARG:NH2	1.01	1.33
2:B:969:LEU:CD1	3:C:343:ASN:HB2	1.50	1.33
10:J:38:GLU:OE1	15:O:29:PHE:CD2	1.78	1.33
1:A:857:ARG:NH1	5:E:200:TRP:HE1	0.83	1.32
1:A:972:TRP:CZ3	1:A:985:PHE:HZ	1.42	1.32
4:D:172:GLU:OE1	12:L:55:LEU:HD12	1.23	1.32
6:F:91:GLN:CG	6:F:96:THR:HG22	1.57	1.32
1:A:891:PHE:CD1	1:A:972:TRP:CE3	2.15	1.32
1:A:970:TYR:O	1:A:983:ALA:HB1	1.18	1.32
2:B:669:ILE:CG1	2:B:719:VAL:HG13	1.57	1.32
2:B:864:ASN:CB	2:B:947:LEU:CD2	1.98	1.32
1:A:3251:ILE:CA	17:Q:62:ILE:CB	2.08	1.32
2:B:501:ARG:HH12	4:D:491:GLN:CD	1.33	1.32
3:C:2793:LEU:O	3:C:2796:PRO:CD	1.77	1.32
5:E:395:VAL:HG23	5:E:402:ILE:CD1	1.55	1.32
10:J:61:ALA:HB2	10:J:80:PHE:CZ	1.64	1.32
1:A:40:LEU:CB	1:A:41:LEU:N	1.92	1.32
1:A:599:ASN:CG	4:D:398:PRO:HG2	1.54	1.32
1:A:3251:ILE:C	17:Q:62:ILE:CB	2.03	1.32
4:D:174:GLN:HA	13:M:62:GLY:CA	1.58	1.32
5:E:310:LEU:HG	5:E:358:ARG:NH2	1.35	1.32
2:B:444:LEU:HD11	2:B:527:PHE:CE1	1.62	1.31
4:D:266:TYR:OH	5:E:121:TYR:HB3	1.29	1.31
17:Q:69:ASN:N	17:Q:92:ASP:CB	1.91	1.31
1:A:801:ILE:CG2	1:A:862:LEU:HD21	1.59	1.31
1:A:1051:GLN:NE2	1:A:1096:TYR:OH	1.63	1.31
1:A:3304:GLU:HB3	17:Q:55:LEU:O	1.25	1.31
2:B:2333:PRO:CB	20:B:5403:ATP:N1	1.90	1.31
3:C:2723:PHE:CE1	3:C:2749:VAL:CG1	2.14	1.31
4:D:107:VAL:HG23	15:O:97:ILE:O	1.29	1.31
5:E:16:ASN:CB	15:O:132:GLU:CG	2.07	1.31
2:B:555:LEU:CD2	2:B:625:LEU:HD22	0.84	1.31
4:D:174:GLN:CA	13:M:62:GLY:HA2	1.58	1.31
1:A:857:ARG:NH1	5:E:200:TRP:NE1	1.67	1.31
1:A:3235:TYR:CZ	1:A:3269:LEU:HD13	1.65	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:801:ILE:CD1	2:B:878:ALA:CA	2.06	1.31
2:B:3139:GLY:HA3	2:B:3433:TRP:CH2	1.44	1.31
1:A:1020:PHE:HZ	1:A:1069:TYR:CE1	1.47	1.30
1:A:3304:GLU:CB	17:Q:55:LEU:O	1.79	1.30
2:B:1488:LYS:CB	2:B:1501:VAL:CG1	2.09	1.30
8:H:12:LYS:HG2	8:H:80:TYR:CE2	1.64	1.30
4:D:90:ASP:CG	13:M:32:LYS:HG3	1.55	1.30
6:F:11:LEU:HD22	6:F:23:TYR:CZ	1.64	1.30
1:A:793:GLN:CB	5:E:451:LYS:HB2	1.62	1.30
1:A:1638:THR:HG21	1:A:1655:GLN:NE2	1.43	1.30
2:B:954:ASP:CB	3:C:220:TRP:HZ2	1.45	1.30
4:D:170:THR:CG2	13:M:66:ILE:HG12	0.82	1.30
4:D:208:TYR:CE1	9:I:100:ASN:HB3	1.64	1.30
4:D:367:LEU:CG	4:D:371:THR:OG1	1.80	1.30
5:E:20:PHE:CE1	14:N:89:GLN:OE1	1.83	1.30
5:E:71:ARG:NH1	8:H:71:PHE:HZ	1.26	1.30
8:H:60:ILE:HG12	9:I:85:TYR:CB	1.60	1.30
1:A:598:ARG:HH12	4:D:504:TYR:CB	1.39	1.30
1:A:601:PRO:CG	1:A:698:GLU:HG3	1.58	1.30
1:A:3251:ILE:CD1	17:Q:64:LYS:C	2.05	1.30
2:B:857:LYS:HB3	3:C:170:GLN:N	1.16	1.30
2:B:861:ASP:CG	3:C:169:TYR:O	1.75	1.30
2:B:939:ASN:C	3:C:283:THR:HG21	0.89	1.30
1:A:156:VAL:N	2:B:168:ILE:HA	1.46	1.30
1:A:800:ASP:C	5:E:149:THR:H	1.40	1.30
2:B:2333:PRO:C	20:B:5403:ATP:C2	2.08	1.30
4:D:569:TYR:CE2	4:D:578:LYS:HG2	1.66	1.30
5:E:20:PHE:HE1	14:N:89:GLN:OE1	0.95	1.30
2:B:857:LYS:CB	3:C:170:GLN:N	1.94	1.29
5:E:20:PHE:CE2	15:O:80:LYS:CD	2.14	1.29
14:N:85:ILE:CG2	14:N:98:ILE:CD1	2.09	1.29
1:A:409:LEU:CB	1:A:464:PHE:CB	2.09	1.29
2:B:582:MET:CE	2:B:587:GLY:CA	1.86	1.29
2:B:669:ILE:CG2	2:B:719:VAL:HG11	1.62	1.29
2:B:952:PRO:CB	3:C:223:THR:CA	2.07	1.29
2:B:1467:PHE:CE2	2:B:1560:MET:SD	2.26	1.29
2:B:1492:LYS:CE	2:B:3606:GLN:OE1	1.80	1.29
4:D:163:ARG:NH2	12:L:71:ASP:O	1.63	1.29
4:D:517:ILE:CD1	4:D:527:ILE:HG23	1.61	1.29
6:F:56:TRP:NE1	6:F:91:GLN:HE22	1.30	1.29
2:B:409:SER:HB2	2:B:413:PHE:CD1	1.56	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:32:CYS:CB	10:J:96:ILE:HG12	1.60	1.29
1:A:156:VAL:H	2:B:168:ILE:C	1.39	1.29
2:B:2334:TYR:N	20:B:5403:ATP:C2	1.99	1.29
1:A:3298:ILE:O	1:A:3343:HIS:CE1	1.83	1.29
8:H:65:PHE:HA	9:I:80:GLY:CA	1.61	1.29
2:B:659:THR:HG22	2:B:757:TRP:NE1	1.48	1.28
2:B:2666:ARG:HD2	20:B:5403:ATP:O1G	1.12	1.28
3:C:2734:PHE:CE2	3:C:2767:LYS:HG3	1.65	1.28
4:D:212:ILE:CD1	9:I:19:MET:HE1	1.62	1.28
5:E:259:ASN:ND2	5:E:299:GLY:HA3	1.46	1.28
14:N:89:GLN:NE2	14:N:94:ASP:OD2	1.66	1.28
2:B:952:PRO:CG	3:C:223:THR:CB	1.97	1.28
4:D:207:ALA:CB	9:I:24:ILE:CD1	2.08	1.28
1:A:935:VAL:CG2	1:A:944:LEU:HD22	1.61	1.28
2:B:444:LEU:HD23	2:B:526:ASN:ND2	1.48	1.28
2:B:1511:VAL:CG1	2:B:1570:VAL:HG21	1.61	1.28
2:B:801:ILE:HD13	2:B:937:PHE:CE1	1.66	1.28
2:B:1238:LYS:CE	2:B:1308:LEU:CA	2.12	1.28
3:C:535:GLU:CB	3:C:701:ASN:CB	2.12	1.28
4:D:170:THR:HG21	13:M:66:ILE:CG1	1.41	1.28
4:D:294:GLN:HE21	4:D:297:LYS:CE	1.45	1.28
1:A:634:ILE:CG2	1:A:638:TYR:CZ	2.16	1.28
1:A:3251:ILE:HG13	17:Q:64:LYS:O	1.16	1.28
2:B:500:GLU:OE1	2:B:535:ILE:CD1	1.80	1.28
2:B:744:MET:SD	2:B:772:ILE:CG1	2.19	1.28
2:B:903:ARG:HB3	2:B:914:ASP:CG	1.57	1.28
2:B:1467:PHE:HB3	2:B:1470:LEU:CD1	1.62	1.28
3:C:2727:ILE:O	3:C:2730:LEU:CD1	1.80	1.28
4:D:367:LEU:CD1	4:D:371:THR:OG1	1.82	1.28
5:E:46:ASN:O	12:L:88:PHE:CD1	1.86	1.28
9:I:26:ASN:HB2	9:I:98:PHE:CE2	1.68	1.28
1:A:1020:PHE:HA	1:A:1023:PHE:CE2	1.68	1.27
1:A:1114:GLN:O	1:A:1118:LEU:CD2	1.83	1.27
1:A:1638:THR:CG2	1:A:1655:GLN:HE21	1.46	1.27
3:C:196:PRO:CA	3:C:239:TRP:CZ2	2.04	1.27
4:D:196:CYS:SG	9:I:86:ASP:OD1	1.91	1.27
5:E:70:ASP:OD2	9:I:64:LYS:HE3	1.33	1.27
1:A:723:PHE:CE1	1:A:772:TRP:NE1	2.01	1.27
1:A:793:GLN:CB	5:E:451:LYS:CB	2.12	1.27
1:A:817:VAL:O	1:A:818:LEU:CD1	1.82	1.27
6:F:50:ALA:CA	8:H:83:GLN:HG3	1.63	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:85:ILE:CG2	14:N:98:ILE:HD11	1.63	1.27
14:N:85:ILE:CB	14:N:98:ILE:HD11	1.65	1.27
1:A:1126:VAL:HA	1:A:1131:SER:OG	1.29	1.27
1:A:1487:VAL:HG23	1:A:1490:PHE:CE1	1.68	1.27
1:A:3235:TYR:CZ	1:A:3269:LEU:CD1	2.17	1.27
2:B:467:VAL:HG12	2:B:471:THR:OG1	1.29	1.27
4:D:543:MET:HE3	4:D:563:MET:CE	1.64	1.27
10:J:74:PRO:HG3	12:L:102:ARG:CD	1.65	1.27
1:A:634:ILE:HG22	1:A:638:TYR:CZ	1.69	1.27
1:A:1235:PRO:N	1:A:1252:PHE:CB	1.96	1.27
1:A:3251:ILE:HD11	17:Q:64:LYS:C	1.58	1.27
1:A:3305:LEU:HD22	17:Q:79:LEU:C	0.86	1.27
1:A:3307:GLU:OE2	17:Q:56:SER:N	1.65	1.27
4:D:255:ASN:ND2	7:G:134:GLU:OE1	1.67	1.27
1:A:598:ARG:O	4:D:460:LEU:CD2	1.83	1.27
1:A:3251:ILE:HD12	17:Q:64:LYS:CA	1.64	1.27
1:A:3307:GLU:HG2	17:Q:30:LYS:CA	1.61	1.27
2:B:1004:SER:OG	2:B:1094:TRP:HH2	1.16	1.27
1:A:3232:ILE:CG1	1:A:3316:TRP:HZ3	1.20	1.26
1:A:3270:LYS:CE	17:Q:57:LEU:O	1.81	1.26
1:A:3300:GLU:HB3	17:Q:76:ILE:CB	1.65	1.26
5:E:395:VAL:CG2	5:E:402:ILE:HD11	1.57	1.26
1:A:601:PRO:HG2	1:A:698:GLU:CG	1.61	1.26
1:A:850:SER:CB	5:E:204:ASN:HB3	1.65	1.26
1:A:3290:LEU:HD22	1:A:3335:TRP:CE2	1.69	1.26
2:B:3238:HIS:CE1	2:B:3335:LYS:HG3	1.69	1.26
2:B:3271:ASP:OD1	2:B:3272:PRO:HD2	1.24	1.26
4:D:80:PRO:HG3	15:O:103:TRP:NE1	1.49	1.26
1:A:3257:VAL:HG11	1:A:3266:VAL:CB	1.65	1.26
2:B:429:LEU:HG	2:B:489:PHE:CZ	1.71	1.26
2:B:1456:PHE:CD1	2:B:1467:PHE:CE1	2.22	1.26
2:B:1492:LYS:HE3	2:B:3606:GLN:CD	1.58	1.26
3:C:143:PRO:HD3	3:C:187:TRP:CD1	1.71	1.26
3:C:2726:THR:CA	3:C:2729:LEU:CD1	2.08	1.26
4:D:552:PRO:HD2	4:D:595:PHE:CE2	1.71	1.26
1:A:156:VAL:N	2:B:168:ILE:CA	1.98	1.26
1:A:3270:LYS:HE2	17:Q:57:LEU:O	1.25	1.26
1:A:3306:LEU:O	1:A:3306:LEU:HD13	1.10	1.26
4:D:75:LEU:CB	15:O:102:LEU:HD11	1.66	1.26
4:D:552:PRO:CD	4:D:595:PHE:CD2	2.17	1.26
18:R:97:ALA:CB	18:R:101:ASN:O	1.84	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:ILE:CA	5:E:149:THR:HB	1.63	1.26
1:A:3232:ILE:CD1	1:A:3316:TRP:CZ3	2.06	1.26
1:A:3255:GLU:CD	17:Q:61:SER:CB	1.87	1.26
1:A:3443:LEU:HD12	1:A:3493:PHE:CZ	1.71	1.26
2:B:58:SER:CA	2:B:83:LYS:CB	2.10	1.26
2:B:952:PRO:CB	3:C:223:THR:C	2.07	1.26
2:B:1456:PHE:CD1	2:B:1467:PHE:HE1	1.52	1.26
4:D:543:MET:CE	4:D:563:MET:HE2	1.64	1.26
8:H:51:SER:CB	18:R:32:LYS:CB	2.14	1.26
1:A:3235:TYR:OH	1:A:3269:LEU:HD12	1.28	1.25
1:A:3305:LEU:HD21	17:Q:79:LEU:CB	1.44	1.25
2:B:10:PRO:CB	2:B:25:GLN:CA	2.07	1.25
2:B:444:LEU:CA	5:E:515:LYS:CG	1.97	1.25
3:C:771:GLU:CB	3:C:838:TRP:HH2	1.48	1.25
3:C:2793:LEU:C	3:C:2796:PRO:CD	2.10	1.25
1:A:670:LEU:CB	1:A:692:ILE:HD11	1.64	1.25
1:A:755:HIS:CE1	1:A:869:TYR:HD2	1.44	1.25
1:A:861:ASP:CG	5:E:152:LEU:HB2	1.42	1.25
1:A:1276:GLN:HG2	4:D:153:HIS:CE1	1.70	1.25
1:A:1632:ASP:HB2	1:A:1892:PHE:CE1	1.71	1.25
2:B:1450:TRP:O	2:B:1454:GLN:HG3	1.09	1.25
6:F:81:THR:HG21	7:G:114:VAL:CG2	1.67	1.25
1:A:1140:GLU:CD	4:D:165:LYS:HE3	1.60	1.25
2:B:939:ASN:O	3:C:283:THR:HG21	1.15	1.25
3:C:2738:ILE:HD12	3:C:2740:ILE:O	1.31	1.25
14:N:75:GLN:HB3	15:O:93:GLN:CG	1.65	1.25
2:B:58:SER:C	2:B:68:SER:O	1.78	1.25
2:B:798:ASN:CB	2:B:874:ALA:HB1	1.66	1.25
2:B:1474:MET:SD	2:B:1515:VAL:CG1	2.23	1.25
8:H:52:ARG:HA	18:R:63:ASN:CB	1.65	1.25
1:A:1051:GLN:CD	1:A:1096:TYR:CZ	2.15	1.25
1:A:1205:GLN:NE2	4:D:166:PHE:CG	2.03	1.25
5:E:77:GLU:OE2	5:E:87:ASN:ND2	1.67	1.25
1:A:803:GLU:OE2	5:E:148:LYS:HE2	1.37	1.25
1:A:1148:GLU:OE2	12:L:51:LYS:NZ	1.68	1.25
2:B:864:ASN:HB3	2:B:947:LEU:CB	1.64	1.25
3:C:2740:ILE:CG1	3:C:2744:LYS:HB3	1.65	1.25
4:D:398:PRO:CD	4:D:419:SER:HB2	1.66	1.25
1:A:550:HIS:CB	4:D:655:LEU:C	2.09	1.24
1:A:1513:LYS:HE2	1:A:1578:ASN:ND2	1.51	1.24
5:E:46:ASN:O	12:L:88:PHE:CG	1.90	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1012:LYS:HZ3	1:A:1072:GLY:N	1.26	1.24
1:A:3347:LYS:O	1:A:3351:PRO:CD	1.83	1.24
2:B:939:ASN:O	3:C:283:THR:CG2	1.77	1.24
3:C:265:LYS:CE	3:C:356:THR:HG22	1.65	1.24
1:A:700:LYS:HA	4:D:454:ILE:O	1.38	1.24
1:A:891:PHE:CE1	1:A:972:TRP:HE3	1.34	1.24
1:A:3307:GLU:CG	17:Q:30:LYS:HA	1.67	1.24
1:A:3347:LYS:O	1:A:3351:PRO:HD2	1.29	1.24
3:C:2720:PRO:CB	3:C:2798:PHE:CE2	2.21	1.24
4:D:174:GLN:CB	13:M:62:GLY:HA3	1.67	1.24
1:A:614:PHE:CD1	1:A:644:LEU:HD22	1.72	1.24
1:A:800:ASP:CA	5:E:148:LYS:HA	1.52	1.24
1:A:870:PRO:O	1:A:871:LEU:HD13	1.35	1.24
2:B:1109:THR:O	2:B:1113:LEU:HG	1.19	1.24
3:C:60:LEU:CD2	3:C:69:TRP:CZ3	2.18	1.24
4:D:174:GLN:OE1	12:L:49:LEU:HD12	1.33	1.24
1:A:686:VAL:HG21	1:A:731:LEU:CD2	1.66	1.23
1:A:704:ARG:HH11	4:D:457:ALA:N	1.34	1.23
1:A:971:ASN:HA	1:A:985:PHE:CE2	1.72	1.23
1:A:1126:VAL:HB	1:A:1201:TYR:OH	1.09	1.23
1:A:3235:TYR:HE2	1:A:3269:LEU:CD1	1.32	1.23
2:B:794:LEU:HA	2:B:797:PHE:CD2	1.71	1.23
4:D:175:THR:OG1	13:M:61:PHE:N	1.70	1.23
4:D:251:MET:CB	7:G:136:MET:CE	1.81	1.23
10:J:36:ILE:HG12	10:J:72:PHE:CE1	1.72	1.23
1:A:3106:LYS:CG	1:A:3443:LEU:CD2	2.09	1.23
2:B:429:LEU:CD1	2:B:489:PHE:CD2	2.20	1.23
2:B:467:VAL:CG1	2:B:471:THR:OG1	1.87	1.23
2:B:1234:GLU:OE1	2:B:1305:LEU:HA	1.33	1.23
3:C:2738:ILE:CD1	3:C:2740:ILE:O	1.86	1.23
5:E:61:VAL:CG2	10:J:106:LEU:CD2	2.14	1.23
5:E:70:ASP:OD1	8:H:70:THR:OG1	1.56	1.23
3:C:2694:ALA:HB2	3:C:2823:TYR:CB	1.66	1.23
4:D:414:PHE:HD2	4:D:426:TRP:CD1	1.55	1.23
5:E:99:ILE:CD1	6:F:31:ILE:HD11	1.69	1.23
1:A:688:PHE:HE1	1:A:693:MET:CG	1.50	1.23
1:A:2839:LEU:CD1	19:A:4703:ADP:C6	2.15	1.23
1:A:3308:PRO:HG3	17:Q:57:LEU:C	1.62	1.23
2:B:733:GLU:OE2	2:B:783:MET:HG3	1.31	1.23
2:B:794:LEU:HA	2:B:797:PHE:CE2	1.72	1.23
2:B:950:THR:OG1	3:C:222:PHE:CB	1.66	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1238:LYS:HE3	2:B:1308:LEU:CA	1.65	1.23
2:B:3153:LEU:CD1	2:B:3707:LEU:CD1	1.99	1.23
6:F:14:LEU:CD2	6:F:23:TYR:CB	2.16	1.23
1:A:3248:LEU:CD1	17:Q:80:SER:CB	2.15	1.23
1:A:3257:VAL:HG11	1:A:3266:VAL:CG1	1.69	1.23
2:B:966:LYS:HA	3:C:343:ASN:O	1.11	1.23
2:B:1117:ILE:CG1	2:B:1190:ILE:HD11	1.67	1.23
2:B:1511:VAL:CB	2:B:1570:VAL:CG2	2.12	1.23
3:C:2701:ILE:CD1	3:C:2704:LYS:CE	2.14	1.23
3:C:2738:ILE:HG22	3:C:2746:PRO:CD	1.67	1.23
10:J:61:ALA:CB	10:J:80:PHE:CE2	2.20	1.23
1:A:1126:VAL:CB	1:A:1201:TYR:OH	1.88	1.22
1:A:1513:LYS:HE2	1:A:1578:ASN:CG	1.64	1.22
1:A:3251:ILE:CD1	17:Q:64:LYS:O	1.85	1.22
2:B:55:GLN:O	2:B:85:LYS:HA	1.31	1.22
2:B:861:ASP:CG	3:C:171:ARG:HG3	1.63	1.22
2:B:966:LYS:CB	3:C:344:ASN:HA	1.68	1.22
10:J:26:VAL:CG2	10:J:97:TYR:O	1.87	1.22
14:N:72:ILE:CD1	15:O:97:ILE:HD13	1.68	1.22
1:A:1157:GLN:CG	1:A:1180:ARG:NH2	1.96	1.22
5:E:48:ILE:N	12:L:88:PHE:HE2	1.36	1.22
1:A:1195:GLU:OE1	13:M:12:MET:O	1.57	1.22
1:A:3308:PRO:HD3	17:Q:56:SER:O	1.08	1.22
4:D:294:GLN:NE2	4:D:297:LYS:CE	2.01	1.22
4:D:395:HIS:NE2	4:D:399:VAL:HG12	1.35	1.22
1:A:801:ILE:CB	1:A:862:LEU:HD21	1.70	1.22
1:A:813:VAL:O	1:A:816:VAL:HG12	1.08	1.22
2:B:801:ILE:HD13	2:B:937:PHE:CD1	1.73	1.22
2:B:871:ILE:CG1	2:B:944:ILE:HD11	1.68	1.22
2:B:946:ARG:HA	2:B:955:PHE:CE2	1.75	1.22
5:E:23:THR:CG2	14:N:88:TYR:HD1	1.52	1.22
2:B:429:LEU:HD12	2:B:489:PHE:CD2	1.75	1.22
2:B:1058:LYS:HE2	2:B:1166:GLU:O	1.04	1.22
3:C:2743:ASN:ND2	3:C:2785:VAL:HG12	1.51	1.22
4:D:585:VAL:HG12	4:D:588:PRO:CD	1.69	1.22
1:A:156:VAL:N	2:B:168:ILE:O	1.72	1.21
1:A:935:VAL:CG2	1:A:944:LEU:CD2	2.16	1.21
1:A:3245:LYS:CB	17:Q:124:ILE:N	2.04	1.21
2:B:791:HIS:CE1	2:B:866:ILE:HD13	1.75	1.21
3:C:2727:ILE:CD1	3:C:2745:LYS:HD3	1.69	1.21
4:D:569:TYR:OH	4:D:578:LYS:HD3	1.40	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:ALA:CB	1:A:471:ASN:CB	2.17	1.21
2:B:57:ASN:HA	2:B:70:LYS:O	1.34	1.21
14:N:75:GLN:CB	15:O:93:GLN:HG3	1.70	1.21
1:A:577:ALA:CB	1:A:636:ARG:HD3	1.67	1.21
1:A:3446:ASN:CG	1:A:3488:LEU:HD13	1.65	1.21
2:B:444:LEU:C	5:E:515:LYS:HG3	1.66	1.21
2:B:861:ASP:OD2	3:C:171:ARG:CG	1.88	1.21
2:B:1447:ILE:HG22	2:B:1504:TRP:CE2	1.76	1.21
3:C:165:GLY:O	3:C:174:PHE:CE2	1.92	1.21
4:D:208:TYR:CE1	9:I:100:ASN:CB	2.21	1.21
1:A:634:ILE:HG22	1:A:638:TYR:CE2	1.74	1.21
1:A:857:ARG:NE	5:E:206:ASN:O	1.72	1.21
1:A:3305:LEU:CB	17:Q:80:SER:H	1.54	1.21
2:B:3228:GLU:CG	2:B:3346:PHE:CE1	2.23	1.21
5:E:310:LEU:CD2	5:E:358:ARG:NH2	2.04	1.21
1:A:576:TYR:CD1	1:A:620:PRO:O	1.92	1.21
2:B:518:TYR:CG	5:E:404:ARG:NH1	2.09	1.21
2:B:2544:LYS:N	19:B:5405:ADP:O2A	1.72	1.21
2:B:3300:GLU:OE2	2:B:3354:LYS:CE	1.87	1.21
4:D:398:PRO:HD2	4:D:419:SER:CB	1.70	1.21
6:F:56:TRP:NE1	6:F:91:GLN:NE2	1.82	1.21
8:H:51:SER:C	18:R:63:ASN:HA	1.66	1.21
1:A:398:TRP:CB	1:A:490:LYS:CB	2.18	1.20
2:B:443:GLU:OE1	5:E:514:ARG:NH1	1.74	1.20
2:B:733:GLU:OE2	2:B:783:MET:CG	1.87	1.20
3:C:2738:ILE:CG2	3:C:2746:PRO:HD3	1.70	1.20
4:D:512:HIS:CD2	4:D:513:PRO:HD2	1.76	1.20
7:G:119:PRO:HG2	9:I:12:ILE:CG2	1.69	1.20
14:N:72:ILE:CG2	15:O:97:ILE:CG1	2.19	1.20
1:A:598:ARG:HG3	4:D:504:TYR:CD1	1.75	1.20
1:A:1513:LYS:CE	1:A:1578:ASN:ND2	2.02	1.20
1:A:3255:GLU:OE1	1:A:3269:LEU:O	1.54	1.20
1:A:3303:ILE:HD11	1:A:3340:TYR:CE2	1.76	1.20
2:B:952:PRO:CD	3:C:223:THR:CA	1.93	1.20
3:C:2593:ARG:HH22	3:C:2597:GLU:CD	1.48	1.20
4:D:90:ASP:OD1	13:M:32:LYS:HA	1.40	1.20
6:F:81:THR:CG2	7:G:114:VAL:HG21	1.71	1.20
1:A:612:HIS:CD2	4:D:500:LEU:O	1.91	1.20
1:A:3251:ILE:O	17:Q:62:ILE:CB	1.88	1.20
2:B:58:SER:O	2:B:68:SER:C	1.82	1.20
2:B:871:ILE:HG13	2:B:944:ILE:CD1	1.72	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3228:GLU:CG	2:B:3346:PHE:HE1	1.55	1.20
3:C:99:GLY:HA3	3:C:149:HIS:CE1	1.75	1.20
1:A:700:LYS:HE3	1:A:720:GLU:OE1	1.38	1.20
3:C:2784:ASN:O	3:C:2787:ILE:HG22	1.41	1.20
4:D:172:GLU:CB	13:M:64:HIS:CB	2.09	1.20
4:D:252:VAL:HG13	7:G:149:GLN:NE2	1.54	1.20
5:E:16:ASN:CB	15:O:132:GLU:HA	1.72	1.20
5:E:20:PHE:CE2	15:O:80:LYS:CG	2.12	1.20
1:A:8:LYS:CB	1:A:109:SER:HA	1.71	1.20
1:A:580:LEU:HD21	1:A:640:SER:CA	1.71	1.20
1:A:817:VAL:C	1:A:818:LEU:CD1	2.14	1.20
1:A:3250:PRO:C	17:Q:62:ILE:O	1.83	1.20
3:C:2734:PHE:CZ	3:C:2767:LYS:HD2	1.74	1.20
5:E:261:HIS:CE1	5:E:283:SER:HG	1.58	1.20
1:A:612:HIS:HE1	4:D:522:ASP:OD2	0.85	1.19
2:B:436:PHE:CD1	2:B:499:LEU:HD21	1.77	1.19
2:B:467:VAL:O	2:B:471:THR:N	1.75	1.19
2:B:762:ILE:HG22	2:B:766:ILE:HG13	1.24	1.19
6:F:14:LEU:HD23	6:F:23:TYR:CG	1.76	1.19
1:A:160:GLU:CB	2:B:167:GLN:C	2.15	1.19
1:A:659:TRP:CZ2	1:A:702:LEU:CD1	2.25	1.19
1:A:3443:LEU:CD1	1:A:3493:PHE:CZ	2.23	1.19
2:B:3118:TYR:CE2	2:B:3452:LEU:CA	2.05	1.19
2:B:3178:VAL:HG11	2:B:3395:LEU:CD2	1.71	1.19
3:C:261:ILE:CG1	3:C:360:PRO:HB3	1.70	1.19
4:D:111:MET:HE1	15:O:90:ILE:CB	1.71	1.19
4:D:172:GLU:CA	13:M:64:HIS:CB	2.20	1.19
5:E:112:LEU:HD21	6:F:97:MET:CG	1.72	1.19
14:N:25:PHE:HE1	14:N:103:ILE:CG2	1.28	1.19
1:A:1205:GLN:CD	4:D:166:PHE:HD2	1.43	1.19
1:A:3301:GLU:O	17:Q:78:SER:HA	1.39	1.19
2:B:801:ILE:HD12	2:B:878:ALA:C	1.68	1.19
2:B:1474:MET:CE	2:B:1515:VAL:CG1	2.19	1.19
3:C:2701:ILE:CD1	3:C:2704:LYS:HE3	1.72	1.19
4:D:172:GLU:HA	13:M:64:HIS:CA	1.70	1.19
4:D:367:LEU:HD11	4:D:371:THR:OG1	1.36	1.19
2:B:1117:ILE:HG12	2:B:1190:ILE:CD1	1.70	1.19
5:E:61:VAL:HG22	10:J:106:LEU:CD2	1.68	1.19
1:A:704:ARG:HE	4:D:457:ALA:CA	1.55	1.19
2:B:467:VAL:O	2:B:471:THR:OG1	1.58	1.19
2:B:501:ARG:NH1	4:D:491:GLN:CD	2.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1123:GLY:HA2	2:B:1197:PHE:CZ	1.77	1.19
2:B:1127:ASN:HB3	2:B:1128:PRO:CD	1.73	1.19
3:C:2727:ILE:HD11	3:C:2745:LYS:CG	1.73	1.19
3:C:2792:TYR:O	3:C:2796:PRO:HG3	1.03	1.19
5:E:16:ASN:HB2	15:O:132:GLU:CB	1.73	1.19
2:B:966:LYS:CD	3:C:345:TRP:CD2	2.25	1.18
2:B:3230:ALA:CB	2:B:3342:ASN:CG	2.06	1.18
3:C:2720:PRO:CB	3:C:2798:PHE:HE2	1.52	1.18
14:N:115:MET:HE2	15:O:129:CYS:SG	1.82	1.18
1:A:801:ILE:HG21	1:A:862:LEU:CD2	1.73	1.18
1:A:868:LEU:HB3	5:E:454:ASP:HB2	1.24	1.18
1:A:1030:SER:O	1:A:1092:TRP:HH2	0.87	1.18
1:A:3103:TYR:HE2	1:A:3444:VAL:CG2	1.56	1.18
1:A:3230:LEU:O	1:A:3233:ILE:HG22	1.42	1.18
2:B:445:GLY:HA2	5:E:511:ARG:NH1	1.59	1.18
2:B:575:ASN:N	5:E:481:GLN:HE22	1.39	1.18
1:A:697:ARG:CZ	4:D:458:CYS:HB3	1.74	1.18
1:A:1445:PHE:CD2	1:A:1564:CYS:CB	2.26	1.18
2:B:963:PHE:HE1	3:C:39:LEU:O	0.86	1.18
2:B:966:LYS:HD2	3:C:345:TRP:CE3	1.78	1.18
2:B:3300:GLU:OE2	2:B:3354:LYS:NZ	1.76	1.18
4:D:105:MET:HE1	14:N:48:GLN:N	1.56	1.18
2:B:60:ASN:HA	2:B:81:ILE:CA	1.73	1.18
2:B:409:SER:HB3	2:B:413:PHE:CD1	1.71	1.18
2:B:903:ARG:HB3	2:B:914:ASP:OD2	1.03	1.18
2:B:1110:GLN:O	2:B:1114:LEU:HG	1.04	1.18
1:A:402:PRO:CB	1:A:485:THR:CB	2.21	1.17
1:A:3245:LYS:HB3	17:Q:123:TYR:C	1.67	1.17
1:A:3252:GLN:CG	17:Q:38:ILE:O	1.87	1.17
1:A:3252:GLN:O	1:A:3255:GLU:HG2	1.43	1.17
3:C:2723:PHE:CE1	3:C:2749:VAL:HG12	1.76	1.17
3:C:2745:LYS:HE3	3:C:2749:VAL:CG1	1.72	1.17
14:N:72:ILE:HG23	15:O:97:ILE:CD1	1.65	1.17
16:P:23:TYR:CB	16:P:93:ILE:CB	2.21	1.17
2:B:467:VAL:O	2:B:471:THR:CB	1.92	1.17
3:C:2793:LEU:O	3:C:2796:PRO:HD2	1.04	1.17
2:B:349:ASN:CB	2:B:416:LEU:CD2	2.21	1.17
4:D:238:SER:C	4:D:239:THR:N	2.02	1.17
1:A:747:ILE:HD11	1:A:889:TYR:CZ	1.79	1.17
1:A:972:TRP:CE3	1:A:985:PHE:HZ	1.61	1.17
1:A:1051:GLN:CD	1:A:1096:TYR:OH	1.87	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3245:LYS:CB	17:Q:123:TYR:C	2.18	1.17
2:B:436:PHE:CE1	2:B:499:LEU:HD22	1.72	1.17
2:B:858:ASN:ND2	3:C:169:TYR:CZ	2.12	1.17
2:B:3373:GLU:O	2:B:3377:VAL:HG13	1.42	1.17
5:E:46:ASN:N	12:L:88:PHE:O	1.75	1.17
14:N:72:ILE:HD13	15:O:97:ILE:HD13	1.26	1.17
1:A:3308:PRO:CD	17:Q:56:SER:O	1.89	1.17
2:B:865:VAL:HG21	3:C:105:ASN:ND2	1.58	1.17
4:D:107:VAL:HG23	15:O:97:ILE:C	1.69	1.17
5:E:16:ASN:HB2	15:O:132:GLU:CG	1.71	1.17
5:E:48:ILE:N	12:L:88:PHE:CE2	2.12	1.17
1:A:3349:VAL:O	1:A:3353:ARG:CB	1.93	1.16
2:B:864:ASN:HB3	2:B:947:LEU:CG	1.49	1.16
2:B:979:ILE:O	2:B:983:CYS:SG	2.01	1.16
2:B:1607:PRO:CB	2:B:1946:SER:HB3	1.74	1.16
4:D:236:MET:CB	7:G:143:PHE:CE2	2.28	1.16
8:H:46:LYS:HE2	9:I:86:ASP:HB2	1.24	1.16
1:A:598:ARG:HB2	4:D:460:LEU:HD13	1.16	1.16
1:A:598:ARG:C	4:D:460:LEU:HD21	1.69	1.16
1:A:704:ARG:HH11	4:D:456:LEU:CA	1.52	1.16
3:C:760:THR:CB	3:C:827:ILE:HD13	1.75	1.16
3:C:771:GLU:CB	3:C:838:TRP:CH2	2.26	1.16
3:C:2709:ALA:CA	3:C:2758:MET:SD	2.33	1.16
3:C:2792:TYR:O	3:C:2796:PRO:CD	1.93	1.16
4:D:569:TYR:CZ	4:D:578:LYS:CG	2.25	1.16
1:A:580:LEU:HD21	1:A:640:SER:CB	1.75	1.16
1:A:3235:TYR:OH	1:A:3269:LEU:CD1	1.93	1.16
1:A:616:LYS:O	1:A:620:PRO:HD2	1.45	1.16
1:A:1449:ILE:HA	1:A:1459:LEU:CD2	1.73	1.16
2:B:60:ASN:CA	2:B:81:ILE:HA	1.72	1.16
2:B:444:LEU:CD2	5:E:515:LYS:HE2	1.76	1.16
2:B:1058:LYS:CB	2:B:1166:GLU:HB3	1.73	1.16
2:B:3150:VAL:CG1	2:B:3423:VAL:HG23	1.76	1.16
3:C:2727:ILE:HD12	3:C:2745:LYS:HB3	1.24	1.16
1:A:3311:ASN:ND2	17:Q:30:LYS:O	1.77	1.16
2:B:1110:GLN:O	2:B:1114:LEU:CG	1.92	1.16
4:D:68:GLU:CG	5:E:12:LYS:HA	1.75	1.16
5:E:57:SER:N	10:J:90:HIS:O	1.77	1.16
5:E:119:CYS:HB3	6:F:88:ILE:HD13	1.22	1.16
8:H:43:THR:HA	9:I:86:ASP:OD2	1.42	1.16
1:A:659:TRP:HZ2	1:A:702:LEU:CD1	1.58	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:HIS:ND1	1:A:869:TYR:CD2	2.15	1.15
1:A:801:ILE:HG12	5:E:149:THR:CG2	1.74	1.15
1:A:861:ASP:OD2	5:E:152:LEU:CG	1.91	1.15
1:A:871:LEU:HD23	1:A:875:VAL:CG1	1.76	1.15
2:B:679:ARG:O	2:B:683:GLU:HG3	1.41	1.15
2:B:956:LEU:HD12	2:B:959:ILE:HD11	1.17	1.15
2:B:1485:MET:CB	2:B:1505:ARG:CZ	2.23	1.15
4:D:212:ILE:CD1	9:I:19:MET:CE	2.23	1.15
5:E:82:GLY:HA2	8:H:12:LYS:HZ3	1.11	1.15
6:F:11:LEU:HB3	6:F:23:TYR:OH	1.46	1.15
8:H:54:HIS:CE1	18:R:62:LYS:CA	2.16	1.15
10:J:95:PHE:CZ	10:J:106:LEU:HD11	1.80	1.15
1:A:793:GLN:HB3	5:E:451:LYS:HB3	1.23	1.15
1:A:1009:THR:CB	1:A:1074:MET:SD	2.35	1.15
2:B:433:ILE:CG2	2:B:463:PHE:HZ	1.58	1.15
2:B:436:PHE:CE1	2:B:499:LEU:HD21	1.55	1.15
5:E:261:HIS:CE1	5:E:283:SER:OG	1.99	1.15
1:A:906:LEU:HD13	1:A:998:VAL:CB	1.75	1.15
1:A:1012:LYS:HB2	1:A:1071:ILE:CD1	1.75	1.15
1:A:1146:GLN:CG	13:M:9:ALA:HB2	1.72	1.15
2:B:682:LYS:CE	5:E:186:PHE:CE1	2.30	1.15
2:B:949:THR:OG1	3:C:171:ARG:O	1.61	1.15
2:B:1456:PHE:CZ	2:B:1563:VAL:HG13	1.74	1.15
3:C:2723:PHE:HE1	3:C:2749:VAL:CG1	1.55	1.15
4:D:319:TYR:O	4:D:320:ASP:OD1	1.63	1.15
4:D:517:ILE:HG12	4:D:550:TRP:CZ2	1.82	1.15
18:R:97:ALA:HB1	18:R:101:ASN:O	0.99	1.15
1:A:21:LEU:O	1:A:25:ASP:CB	1.94	1.15
1:A:1449:ILE:HA	1:A:1459:LEU:HD23	1.20	1.15
2:B:963:PHE:CE1	3:C:39:LEU:C	2.24	1.15
2:B:1559:MET:CE	2:B:1577:ARG:HH21	1.58	1.15
3:C:60:LEU:HD21	3:C:69:TRP:CH2	1.82	1.15
3:C:2743:ASN:HD22	3:C:2785:VAL:CG1	1.60	1.15
8:H:46:LYS:NZ	9:I:86:ASP:O	1.79	1.15
14:N:25:PHE:CZ	14:N:103:ILE:HD13	1.82	1.15
14:N:85:ILE:HB	14:N:98:ILE:HD11	1.24	1.15
1:A:3255:GLU:OE1	17:Q:37:PRO:CB	1.95	1.15
2:B:3:ASP:CA	2:B:7:LYS:CB	2.23	1.15
4:D:261:TYR:HE1	5:E:126:ILE:HD13	1.12	1.15
8:H:65:PHE:HA	9:I:80:GLY:HA2	1.18	1.15
1:A:600:MET:CE	1:A:697:ARG:HH11	1.59	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:963:PHE:CE2	3:C:39:LEU:CD2	2.22	1.14
2:B:3261:ILE:O	2:B:3306:ILE:HG21	1.46	1.14
3:C:2734:PHE:HE2	3:C:2767:LYS:CG	1.61	1.14
5:E:384:LEU:HD23	5:E:417:TRP:CE2	1.82	1.14
11:K:77:PHE:CZ	11:K:88:LEU:HD11	1.82	1.14
14:N:72:ILE:HG12	15:O:97:ILE:CG2	1.77	1.14
16:P:11:THR:O	16:P:67:LEU:CA	1.94	1.14
1:A:580:LEU:CD2	1:A:640:SER:CB	2.25	1.14
1:A:1051:GLN:OE1	1:A:1096:TYR:CZ	1.98	1.14
1:A:3304:GLU:CA	17:Q:55:LEU:O	1.94	1.14
2:B:789:LYS:HG2	2:B:839:LEU:HD11	1.18	1.14
3:C:2711:SER:CB	3:C:2751:TRP:CZ2	2.29	1.14
4:D:174:GLN:HB2	13:M:62:GLY:HA3	1.16	1.14
14:N:85:ILE:HG21	14:N:98:ILE:CD1	1.74	1.14
1:A:14:LYS:CB	2:B:19:SER:O	1.94	1.14
1:A:612:HIS:HE1	4:D:522:ASP:CG	1.54	1.14
1:A:906:LEU:CG	1:A:998:VAL:HG11	1.75	1.14
2:B:467:VAL:C	2:B:471:THR:OG1	1.89	1.14
2:B:655:LYS:NZ	2:B:701:ILE:HG22	1.60	1.14
2:B:1607:PRO:CB	2:B:1946:SER:CB	2.26	1.14
2:B:3302:ILE:HG22	2:B:3303:GLU:H	1.09	1.14
4:D:107:VAL:CG2	15:O:97:ILE:O	1.95	1.14
4:D:360:ALA:HB3	5:E:133:PHE:CZ	1.83	1.14
1:A:599:ASN:N	4:D:400:TRP:CZ2	2.16	1.14
1:A:704:ARG:HB3	4:D:478:GLU:CD	1.67	1.14
1:A:1126:VAL:HG13	1:A:1131:SER:C	1.72	1.14
1:A:1205:GLN:CD	4:D:166:PHE:CE2	2.17	1.14
2:B:426:ILE:O	2:B:430:THR:HG23	1.43	1.14
4:D:517:ILE:HG12	4:D:550:TRP:CE2	1.83	1.14
5:E:394:TRP:CD1	5:E:401:PRO:HA	1.80	1.14
8:H:51:SER:O	18:R:63:ASN:HA	1.42	1.14
10:J:48:LEU:CD1	10:J:100:ILE:CD1	2.26	1.14
1:A:3446:ASN:ND2	1:A:3488:LEU:CD1	2.11	1.14
2:B:1051:ASP:CG	2:B:1162:THR:HG21	1.73	1.14
1:A:601:PRO:HB2	1:A:698:GLU:CD	1.71	1.13
2:B:957:GLN:HE22	3:C:322:GLU:CD	1.56	1.13
3:C:176:ASP:OD2	3:C:189:ARG:NH1	1.81	1.13
4:D:170:THR:HG22	13:M:66:ILE:CA	1.77	1.13
5:E:310:LEU:CD1	5:E:358:ARG:NH2	2.09	1.13
10:J:21:PHE:HZ	10:J:37:LEU:HD22	0.99	1.13
1:A:1012:LYS:HD3	1:A:1071:ILE:HD12	1.22	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1393:TYR:O	1:A:1397:ASP:CB	1.97	1.13
1:A:1633:ALA:O	1:A:1838:PHE:HE2	1.29	1.13
1:A:3249:ILE:CG1	1:A:3273:TYR:CA	2.27	1.13
2:B:87:LYS:O	2:B:103:ASN:CB	1.96	1.13
2:B:531:LEU:CD2	2:B:540:LEU:HD11	1.79	1.13
2:B:966:LYS:HG2	3:C:343:ASN:C	1.73	1.13
2:B:1456:PHE:CE2	2:B:1569:VAL:HG13	1.83	1.13
2:B:1511:VAL:HA	2:B:1570:VAL:CG1	1.77	1.13
3:C:2798:PHE:CD1	3:C:2803:MET:SD	2.42	1.13
4:D:92:TYR:CG	13:M:29:LYS:HB3	1.82	1.13
4:D:114:ASP:OD1	5:E:43:ARG:CZ	1.96	1.13
5:E:164:VAL:CG2	5:E:181:TYR:CE1	2.30	1.13
10:J:21:PHE:CZ	10:J:37:LEU:HD22	1.82	1.13
1:A:891:PHE:HE1	1:A:972:TRP:CE3	1.44	1.13
1:A:899:LEU:HD13	1:A:992:ASP:OD2	1.49	1.13
2:B:966:LYS:HB2	3:C:345:TRP:CZ3	1.81	1.13
5:E:16:ASN:CB	15:O:132:GLU:CA	2.25	1.13
8:H:64:ASN:HB2	9:I:81:GLU:HB3	1.14	1.13
1:A:597:VAL:CG1	4:D:502:ALA:HB2	1.68	1.13
2:B:409:SER:CA	2:B:413:PHE:HD1	1.60	1.13
2:B:801:ILE:CD1	2:B:937:PHE:CE1	2.23	1.13
2:B:904:LEU:HD11	2:B:911:ILE:CG2	1.79	1.13
3:C:2640:ALA:HA	3:C:2643:GLU:HB2	1.18	1.13
3:C:2734:PHE:CE2	3:C:2767:LYS:CG	2.30	1.13
3:C:2734:PHE:CE2	3:C:2767:LYS:CD	2.32	1.13
5:E:117:GLU:HG3	6:F:17:LEU:HD13	1.30	1.13
5:E:266:THR:HG21	5:E:320:THR:HA	1.18	1.13
6:F:62:VAL:HG21	7:G:106:LEU:HD11	1.22	1.13
6:F:91:GLN:CG	6:F:96:THR:CG2	2.21	1.13
8:H:66:GLY:HA3	9:I:56:ILE:HG22	1.29	1.13
1:A:800:ASP:C	5:E:149:THR:N	2.04	1.12
2:B:669:ILE:HB	2:B:719:VAL:HG12	1.31	1.13
4:D:115:TYR:OH	14:N:78:HIS:NE2	1.82	1.13
1:A:850:SER:HB2	5:E:204:ASN:CB	1.78	1.12
1:A:1126:VAL:HG21	1:A:1135:VAL:HG23	1.31	1.12
4:D:170:THR:HG22	13:M:66:ILE:CG1	1.56	1.12
9:I:26:ASN:HB2	9:I:98:PHE:CZ	1.83	1.12
1:A:813:VAL:O	1:A:816:VAL:CG1	1.95	1.12
1:A:3309:TYR:HA	17:Q:33:PHE:CB	1.79	1.12
2:B:1612:LEU:HD11	2:B:1637:CYS:SG	1.90	1.12
3:C:2792:TYR:C	3:C:2796:PRO:HG3	1.75	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:PRO:HB2	1:A:698:GLU:OE1	1.48	1.12
1:A:3305:LEU:HB3	17:Q:80:SER:H	0.98	1.12
3:C:2685:ASP:O	3:C:2689:PRO:HD2	1.46	1.12
5:E:99:ILE:HG21	6:F:33:LEU:HD11	1.30	1.12
7:G:119:PRO:HD2	9:I:12:ILE:HD12	1.18	1.12
14:N:72:ILE:CG1	15:O:97:ILE:HD13	1.79	1.12
1:A:3121:LEU:HD23	1:A:3429:TRP:CB	1.71	1.12
1:A:3257:VAL:CG1	1:A:3266:VAL:HA	1.80	1.12
2:B:718:ILE:HD11	2:B:773:VAL:HB	1.26	1.12
2:B:864:ASN:HA	2:B:947:LEU:CG	1.76	1.12
2:B:1058:LYS:CD	2:B:1166:GLU:O	1.97	1.12
2:B:1119:LYS:HB3	2:B:1138:LYS:NZ	1.64	1.12
4:D:543:MET:HE3	4:D:563:MET:HE2	1.12	1.12
5:E:23:THR:CG2	14:N:88:TYR:CD1	2.32	1.12
6:F:56:TRP:NE1	6:F:91:GLN:OE1	1.81	1.12
9:I:78:ILE:HD11	9:I:106:LEU:CD2	1.80	1.12
12:L:73:GLU:HB3	13:M:66:ILE:HD12	1.31	1.12
1:A:1504:VAL:HG22	1:A:1565:CYS:HB3	1.26	1.12
2:B:864:ASN:CB	2:B:947:LEU:HD23	1.67	1.12
2:B:871:ILE:HG13	2:B:944:ILE:HD11	1.20	1.12
2:B:969:LEU:CD1	3:C:343:ASN:HB3	1.61	1.12
2:B:3301:ASN:ND2	2:B:3351:LYS:NZ	1.96	1.12
4:D:172:GLU:HG3	12:L:51:LYS:HE2	1.29	1.12
10:J:32:CYS:HB2	10:J:96:ILE:HG12	1.28	1.12
1:A:804:ASN:HB3	5:E:150:LEU:CD2	1.79	1.11
1:A:857:ARG:NH2	5:E:207:SER:CA	2.11	1.11
1:A:936:GLN:HA	1:A:1081:ILE:HG13	1.20	1.11
1:A:1504:VAL:HG22	1:A:1565:CYS:CB	1.78	1.11
2:B:952:PRO:HB2	3:C:223:THR:O	1.32	1.11
2:B:963:PHE:CD2	3:C:51:ILE:HG21	1.84	1.11
4:D:517:ILE:CG1	4:D:550:TRP:CZ2	2.33	1.11
5:E:71:ARG:NH1	8:H:71:PHE:CZ	2.04	1.11
1:A:617:ILE:HD12	1:A:647:GLN:HE22	1.16	1.11
1:A:761:LEU:HD21	1:A:874:HIS:CE1	1.85	1.11
1:A:1146:GLN:HG3	13:M:9:ALA:CB	1.76	1.11
1:A:3242:VAL:HG13	17:Q:80:SER:CB	1.80	1.11
1:A:3308:PRO:HG3	17:Q:57:LEU:CA	1.80	1.11
2:B:436:PHE:CZ	2:B:499:LEU:HD22	1.84	1.11
2:B:950:THR:OG1	3:C:222:PHE:HB2	1.50	1.11
2:B:1485:MET:CB	2:B:1505:ARG:CD	2.28	1.11
2:B:1531:ILE:HD13	2:B:1595:LEU:HD11	1.33	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3238:HIS:ND1	2:B:3335:LYS:HG3	1.64	1.11
2:B:3446:SER:CB	2:B:3489:THR:CG2	2.17	1.11
3:C:2585:PHE:CE1	3:C:2929:LEU:HA	1.85	1.11
3:C:2723:PHE:HE1	3:C:2749:VAL:HG12	0.97	1.11
4:D:405:ASN:ND2	4:D:406:PRO:HD2	1.66	1.11
1:A:935:VAL:HG22	1:A:944:LEU:HD21	1.22	1.11
1:A:3298:ILE:C	1:A:3343:HIS:HE1	1.59	1.11
2:B:409:SER:HB2	2:B:413:PHE:CG	1.85	1.11
2:B:532:THR:HG22	2:B:536:ILE:HG13	1.27	1.11
2:B:555:LEU:CG	2:B:625:LEU:HD22	1.78	1.11
3:C:2727:ILE:HD11	3:C:2745:LYS:HG2	1.23	1.11
4:D:261:TYR:CE1	5:E:126:ILE:HD13	1.86	1.11
10:J:34:ASP:CB	15:O:31:PRO:HG3	1.80	1.11
10:J:38:GLU:OE1	15:O:29:PHE:CE2	1.96	1.11
14:N:72:ILE:HG23	15:O:97:ILE:HG12	1.13	1.11
2:B:1223:LYS:HZ3	2:B:1277:ARG:CB	1.58	1.11
2:B:3314:ILE:HG12	2:B:3321:PHE:HE2	0.96	1.11
5:E:20:PHE:CG	15:O:80:LYS:HE3	1.84	1.11
14:N:72:ILE:CG2	15:O:97:ILE:HG12	1.78	1.11
1:A:598:ARG:CB	4:D:460:LEU:HD22	1.78	1.11
1:A:909:MET:CE	1:A:955:ILE:HD11	1.81	1.11
2:B:349:ASN:HA	2:B:416:LEU:HD21	1.16	1.11
3:C:2596:LEU:HG	3:C:2924:MET:HE1	1.25	1.11
4:D:195:ILE:HD13	9:I:94:LEU:HD21	1.12	1.11
10:J:19:LYS:HE3	15:O:19:LEU:HD13	1.18	1.11
12:L:74:TRP:NE1	12:L:109:LYS:HD2	1.65	1.11
12:L:77:ILE:CG1	13:M:65:ILE:HD11	1.80	1.11
1:A:402:PRO:CB	1:A:467:ILE:O	1.97	1.10
1:A:709:ILE:HG22	1:A:710:PRO:HD2	1.13	1.10
1:A:3223:LEU:HD11	1:A:3332:ILE:HG12	1.27	1.10
2:B:598:ARG:HB2	5:E:367:LEU:HD13	1.33	1.10
2:B:952:PRO:HG2	3:C:223:THR:C	1.54	1.10
2:B:3262:LEU:O	2:B:3297:PHE:HZ	1.29	1.10
3:C:2018:GLN:HE21	19:C:4305:ADP:H2'	1.15	1.10
5:E:117:GLU:OE2	6:F:17:LEU:HD21	1.51	1.10
5:E:239:LEU:HD21	5:E:257:VAL:HG22	1.11	1.10
10:J:32:CYS:SG	10:J:96:ILE:HD11	1.91	1.10
14:N:25:PHE:HE1	14:N:103:ILE:HG23	1.01	1.10
1:A:801:ILE:HG12	5:E:149:THR:HG21	1.22	1.10
1:A:805:ARG:NH2	5:E:152:LEU:HG	1.62	1.10
1:A:3241:LEU:HD13	17:Q:104:TYR:CD1	1.85	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3245:LYS:HB2	17:Q:124:ILE:N	1.63	1.10
1:A:3273:TYR:OH	1:A:3277:GLY:CA	1.97	1.10
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD12	1.85	1.10
2:B:436:PHE:CE1	2:B:499:LEU:HD23	1.85	1.10
2:B:762:ILE:CG2	2:B:766:ILE:HG13	1.79	1.10
2:B:1492:LYS:NZ	2:B:3606:GLN:OE1	1.85	1.10
2:B:1511:VAL:CG2	2:B:1570:VAL:HG21	1.81	1.10
4:D:207:ALA:HB1	9:I:24:ILE:CD1	1.76	1.10
5:E:16:ASN:CG	15:O:132:GLU:HA	1.75	1.10
1:A:688:PHE:CE1	1:A:693:MET:SD	2.43	1.10
1:A:3290:LEU:CD2	1:A:3335:TRP:CH2	2.34	1.10
2:B:533:ARG:HB3	2:B:534:PRO:CD	1.79	1.10
2:B:1492:LYS:CE	2:B:3606:GLN:CD	2.20	1.10
4:D:177:ASN:OD1	13:M:60:ASN:OD1	1.70	1.10
4:D:265:ARG:CG	5:E:125:GLN:HG2	1.80	1.10
8:H:66:GLY:HA3	9:I:56:ILE:HG23	1.20	1.10
12:L:16:LEU:HD12	12:L:17:PRO:CD	1.80	1.10
1:A:577:ALA:HB2	1:A:636:ARG:CD	1.82	1.10
1:A:807:GLU:HG2	1:A:811:LYS:HE3	1.16	1.10
1:A:1540:GLN:O	1:A:1544:ILE:HG13	1.49	1.10
2:B:444:LEU:HD23	5:E:515:LYS:HE2	1.26	1.10
3:C:10:LEU:CD2	3:C:65:ASN:O	1.99	1.10
4:D:212:ILE:HD13	9:I:19:MET:HE1	1.21	1.10
4:D:595:PHE:CD1	4:D:602:LEU:HD21	1.84	1.10
6:F:50:ALA:CB	8:H:83:GLN:HG3	1.81	1.10
7:G:119:PRO:CD	9:I:12:ILE:CD1	2.29	1.10
16:P:75:VAL:CB	16:P:89:LYS:CB	2.28	1.10
1:A:891:PHE:CE1	1:A:972:TRP:CZ3	2.38	1.10
2:B:533:ARG:HG2	2:B:534:PRO:HD3	1.34	1.10
2:B:939:ASN:CA	3:C:283:THR:HG22	1.57	1.10
2:B:1142:SER:O	2:B:1146:VAL:HG23	1.50	1.10
2:B:2543:GLY:HA2	19:B:5405:ADP:O1A	1.48	1.10
2:B:3140:LEU:HB2	2:B:3433:TRP:HE3	0.98	1.10
4:D:251:MET:HB2	7:G:136:MET:HE1	1.15	1.10
17:Q:39:GLU:O	17:Q:62:ILE:HA	1.51	1.10
1:A:697:ARG:NE	4:D:458:CYS:SG	2.25	1.09
2:B:165:LEU:O	2:B:169:LYS:CB	1.99	1.09
3:C:205:ALA:HB2	3:C:216:ILE:HG22	1.32	1.09
3:C:2740:ILE:HG13	3:C:2744:LYS:HB3	1.10	1.09
4:D:517:ILE:HD12	4:D:527:ILE:HG12	1.33	1.09
5:E:395:VAL:HG23	5:E:402:ILE:HD12	1.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:120:THR:CG2	9:I:12:ILE:CG2	2.30	1.09
8:H:67:SER:CB	9:I:78:ILE:HG22	1.81	1.09
1:A:403:ALA:N	1:A:471:ASN:CB	2.15	1.09
1:A:1230:TYR:CA	1:A:1256:TYR:HA	1.82	1.09
4:D:111:MET:CE	15:O:90:ILE:CG2	2.30	1.09
4:D:351:MET:HE2	4:D:351:MET:HA	1.31	1.09
10:J:48:LEU:HD11	10:J:100:ILE:HD11	1.32	1.09
10:J:74:PRO:HG3	12:L:102:ARG:HD3	1.11	1.09
1:A:1020:PHE:CZ	1:A:1069:TYR:CZ	2.39	1.09
1:A:3251:ILE:CD1	17:Q:64:LYS:CA	2.27	1.09
1:A:3255:GLU:OE1	17:Q:61:SER:CB	2.00	1.09
2:B:518:TYR:HE1	5:E:407:TYR:CE2	1.71	1.09
2:B:531:LEU:HD22	2:B:540:LEU:HD11	1.29	1.09
3:C:159:TYR:CD1	3:C:179:VAL:HG22	1.87	1.09
4:D:405:ASN:HD22	4:D:406:PRO:HD2	1.10	1.09
5:E:46:ASN:CG	12:L:88:PHE:CE1	2.30	1.09
1:A:1445:PHE:CD2	1:A:1564:CYS:HB3	1.87	1.09
1:A:3236:ILE:HG23	1:A:3333:LEU:HD23	1.17	1.09
1:A:3257:VAL:HG11	1:A:3266:VAL:CA	1.83	1.09
2:B:966:LYS:HB3	3:C:344:ASN:HA	1.10	1.09
2:B:1511:VAL:CG2	2:B:1570:VAL:CB	2.30	1.09
3:C:261:ILE:HG13	3:C:360:PRO:HB3	1.27	1.09
3:C:2735:ASN:HB3	3:C:2757:LEU:HA	1.25	1.09
4:D:170:THR:HG23	13:M:66:ILE:HG12	1.29	1.09
4:D:397:ASP:HB3	4:D:398:PRO:HD3	1.28	1.09
8:H:60:ILE:HG12	9:I:85:TYR:HB2	1.29	1.09
1:A:601:PRO:CB	1:A:698:GLU:HG3	1.81	1.09
1:A:1140:GLU:OE1	4:D:165:LYS:HE3	1.48	1.09
1:A:1146:GLN:NE2	13:M:9:ALA:CB	2.04	1.09
1:A:1633:ALA:O	1:A:1838:PHE:CE2	2.06	1.09
1:A:3442:LYS:HB3	1:A:3485:THR:HG23	1.21	1.09
2:B:555:LEU:HD21	2:B:625:LEU:HD22	1.15	1.09
2:B:899:LEU:HD12	2:B:900:PHE:N	1.66	1.09
2:B:3139:GLY:CA	2:B:3433:TRP:CH2	2.19	1.09
4:D:265:ARG:HG2	5:E:125:GLN:HG2	1.13	1.09
15:O:30:TYR:OH	15:O:126:VAL:HG12	1.53	1.09
15:O:45:ARG:HB3	15:O:63:LEU:HD13	1.27	1.09
1:A:944:LEU:HD11	1:A:1017:LEU:HD11	1.21	1.08
1:A:1513:LYS:CD	1:A:1578:ASN:ND2	2.15	1.08
1:A:1638:THR:HB	1:A:1655:GLN:CG	1.82	1.08
1:A:3257:VAL:HG21	1:A:3266:VAL:HG11	1.20	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3304:GLU:HG2	17:Q:55:LEU:N	1.68	1.08
2:B:45:ASN:O	2:B:49:PHE:CB	2.00	1.08
2:B:865:VAL:HG21	3:C:105:ASN:HD21	0.98	1.08
2:B:969:LEU:HD12	3:C:343:ASN:HB3	1.13	1.08
2:B:1447:ILE:HG22	2:B:1504:TRP:NE1	1.55	1.08
5:E:112:LEU:HD21	6:F:97:MET:HG2	1.10	1.08
18:R:82:ALA:C	18:R:83:ASN:HA	1.72	1.08
1:A:612:HIS:CG	4:D:500:LEU:O	2.07	1.08
1:A:1505:ASN:O	1:A:1509:ASP:CG	1.95	1.08
2:B:501:ARG:NH2	4:D:491:GLN:HG3	0.76	1.08
2:B:511:PHE:HE2	2:B:547:LEU:HD21	1.15	1.08
2:B:1511:VAL:HA	2:B:1570:VAL:HG22	1.31	1.08
2:B:1511:VAL:HG13	2:B:1570:VAL:CG2	1.84	1.08
2:B:3150:VAL:HG12	2:B:3423:VAL:HG23	1.13	1.08
3:C:10:LEU:CD2	3:C:65:ASN:C	2.26	1.08
3:C:2772:LYS:NZ	3:C:2776:ASP:OD2	1.86	1.08
4:D:170:THR:HG22	13:M:66:ILE:CB	1.82	1.08
15:O:22:LEU:HD12	15:O:23:ASN:CG	1.77	1.08
1:A:160:GLU:CA	2:B:167:GLN:CB	2.29	1.08
1:A:403:ALA:H	1:A:471:ASN:CB	1.67	1.08
1:A:612:HIS:C	4:D:500:LEU:HD21	1.77	1.08
1:A:704:ARG:NH1	4:D:456:LEU:HA	1.64	1.08
1:A:1452:LYS:HA	1:A:1458:MET:N	1.68	1.08
1:A:3244:PHE:HD1	17:Q:104:TYR:OH	1.36	1.08
2:B:861:ASP:OD2	3:C:171:ARG:HG3	1.44	1.08
2:B:864:ASN:HA	2:B:947:LEU:HG	1.12	1.08
2:B:1375:VAL:CA	2:B:1420:LEU:CB	2.31	1.08
4:D:201:GLN:NE2	9:I:102:ASN:HB3	1.67	1.08
5:E:46:ASN:CB	12:L:88:PHE:CE1	2.37	1.08
6:F:56:TRP:CG	6:F:91:GLN:NE2	2.22	1.08
8:H:46:LYS:HE3	9:I:86:ASP:HB3	1.31	1.08
14:N:85:ILE:CG2	14:N:98:ILE:HD12	1.82	1.08
1:A:850:SER:OG	5:E:203:LEU:HD21	1.54	1.08
1:A:1235:PRO:CA	1:A:1252:PHE:CB	2.32	1.08
2:B:429:LEU:CD1	2:B:489:PHE:CZ	2.36	1.08
2:B:963:PHE:HE1	3:C:39:LEU:C	1.58	1.08
2:B:3264:ASN:ND2	2:B:3303:GLU:OE1	1.87	1.08
2:B:3314:ILE:HG12	2:B:3321:PHE:CE2	1.89	1.08
4:D:105:MET:SD	14:N:48:GLN:HA	1.93	1.08
4:D:398:PRO:CD	4:D:419:SER:CB	2.26	1.08
5:E:263:GLU:HB3	5:E:264:PRO:HD2	1.33	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:ILE:HG21	1:A:638:TYR:OH	1.53	1.08
1:A:1230:TYR:HA	1:A:1256:TYR:HA	1.35	1.08
1:A:3257:VAL:CG1	1:A:3266:VAL:CG1	2.26	1.08
4:D:595:PHE:HD1	4:D:602:LEU:HD21	1.12	1.08
5:E:22:ASP:O	14:N:89:GLN:O	1.69	1.08
5:E:259:ASN:ND2	5:E:299:GLY:CA	2.15	1.08
1:A:597:VAL:HG11	4:D:477:GLU:HA	1.28	1.07
1:A:601:PRO:CB	1:A:698:GLU:CG	2.31	1.07
1:A:2697:ARG:NH1	19:A:4701:ADP:O1B	1.86	1.07
2:B:429:LEU:CG	2:B:489:PHE:CZ	2.36	1.07
2:B:520:ARG:NH1	2:B:550:MET:HG3	1.67	1.07
2:B:682:LYS:NZ	5:E:186:PHE:CE1	1.96	1.07
4:D:109:PHE:CE2	15:O:121:TYR:CD2	2.42	1.07
5:E:20:PHE:HA	14:N:90:ASP:OD1	1.50	1.07
6:F:50:ALA:HA	8:H:83:GLN:HG3	1.12	1.07
10:J:77:HIS:ND1	11:K:70:VAL:HG21	1.58	1.07
1:A:1444:GLN:HG2	1:A:1560:LYS:HA	1.10	1.07
2:B:725:ILE:HD11	2:B:777:PHE:HA	1.11	1.07
2:B:1051:ASP:CB	2:B:1162:THR:HG21	1.83	1.07
2:B:3118:TYR:HB2	2:B:3455:SER:CB	1.84	1.07
2:B:3140:LEU:HB2	2:B:3433:TRP:CE3	1.88	1.07
4:D:172:GLU:HA	13:M:64:HIS:HA	1.30	1.07
5:E:70:ASP:OD2	9:I:64:LYS:CE	2.02	1.07
15:O:22:LEU:CD1	15:O:23:ASN:CG	2.26	1.07
1:A:3106:LYS:CG	1:A:3443:LEU:HD11	1.84	1.07
2:B:10:PRO:CB	2:B:25:GLN:CB	2.32	1.07
4:D:91:TYR:CZ	13:M:80:LEU:HD12	1.89	1.07
4:D:106:ILE:HD11	15:O:99:SER:OG	1.52	1.07
4:D:585:VAL:HG12	4:D:588:PRO:HD3	1.33	1.07
14:N:25:PHE:HZ	14:N:103:ILE:HD13	0.96	1.07
1:A:3249:ILE:HG12	1:A:3273:TYR:HA	1.36	1.07
1:A:3305:LEU:HB3	17:Q:80:SER:N	1.69	1.07
2:B:966:LYS:HD2	3:C:345:TRP:CE2	1.89	1.07
2:B:1238:LYS:HE2	2:B:1308:LEU:HA	1.12	1.07
2:B:1573:CYS:O	2:B:1577:ARG:HB3	1.54	1.07
10:J:19:LYS:HE3	15:O:19:LEU:CD1	1.84	1.07
10:J:26:VAL:HG22	10:J:97:TYR:O	1.50	1.07
1:A:550:HIS:CB	4:D:655:LEU:CA	2.33	1.07
1:A:801:ILE:HG12	5:E:149:THR:CB	1.85	1.07
1:A:1012:LYS:HB3	1:A:1071:ILE:HG21	1.36	1.07
1:A:1417:GLU:O	1:A:1421:GLU:N	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:PRO:HG2	3:C:81:PRO:CB	1.84	1.07
3:C:2726:THR:HA	3:C:2729:LEU:CG	1.84	1.07
4:D:111:MET:HE1	15:O:90:ILE:HG21	1.29	1.07
4:D:248:MET:HE1	7:G:147:VAL:HB	1.36	1.07
1:A:850:SER:OG	5:E:203:LEU:HD22	1.49	1.06
1:A:3257:VAL:HG21	1:A:3266:VAL:HG12	1.28	1.06
2:B:349:ASN:HA	2:B:416:LEU:CD2	1.84	1.06
2:B:794:LEU:CA	2:B:797:PHE:CE2	2.36	1.06
2:B:1223:LYS:HZ1	2:B:1277:ARG:CB	1.57	1.06
3:C:2708:GLN:NE2	3:C:2809:ALA:O	1.87	1.06
4:D:90:ASP:OD2	13:M:32:LYS:CG	2.02	1.06
4:D:207:ALA:HB3	9:I:24:ILE:CD1	1.81	1.06
12:L:16:LEU:CD1	12:L:17:PRO:HD2	1.84	1.06
1:A:700:LYS:HG2	4:D:455:GLY:HA3	1.12	1.06
2:B:409:SER:O	2:B:413:PHE:HB2	1.52	1.06
2:B:655:LYS:HZ3	2:B:701:ILE:HG22	0.96	1.06
3:C:2800:PRO:HD2	3:C:2801:GLU:H	0.96	1.06
5:E:395:VAL:CG2	5:E:402:ILE:HD12	1.75	1.06
7:G:120:THR:HG23	9:I:12:ILE:HG23	1.36	1.06
11:K:77:PHE:HD1	11:K:90:TYR:HB3	1.07	1.06
1:A:861:ASP:OD2	5:E:152:LEU:CA	2.02	1.06
1:A:3215:ILE:HG21	1:A:3219:ASP:OD2	1.53	1.06
1:A:3222:GLU:HB3	1:A:3328:ALA:HB2	1.38	1.06
1:A:3232:ILE:HD11	1:A:3316:TRP:CZ3	1.90	1.06
1:A:3300:GLU:CB	17:Q:76:ILE:CB	2.33	1.06
2:B:966:LYS:HB2	3:C:345:TRP:CE3	1.90	1.06
2:B:1238:LYS:HE3	2:B:1308:LEU:CB	1.85	1.06
2:B:1450:TRP:O	2:B:1454:GLN:CG	2.02	1.06
2:B:1511:VAL:HG22	2:B:1570:VAL:CG2	1.84	1.06
3:C:2637:GLU:O	3:C:2640:ALA:HB3	1.55	1.06
3:C:2690:LEU:CB	3:C:2826:VAL:HG21	1.84	1.06
4:D:91:TYR:CE2	13:M:80:LEU:CB	2.38	1.06
4:D:148:GLU:HG2	4:D:149:PRO:CD	1.85	1.06
5:E:395:VAL:HG21	5:E:402:ILE:HD11	1.06	1.06
7:G:119:PRO:CD	9:I:12:ILE:HD12	1.86	1.06
1:A:598:ARG:HB2	4:D:460:LEU:CD1	1.85	1.06
1:A:1445:PHE:CD2	1:A:1564:CYS:SG	2.48	1.06
1:A:3304:GLU:HB3	17:Q:78:SER:H	1.13	1.06
2:B:900:PHE:CE1	2:B:933:TRP:HH2	1.72	1.06
4:D:517:ILE:HD11	4:D:527:ILE:HG23	1.32	1.06
6:F:56:TRP:NE1	6:F:91:GLN:CD	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:46:LYS:HE2	9:I:86:ASP:CB	1.84	1.06
1:A:706:GLY:H	4:D:453:LEU:HD21	1.20	1.06
1:A:730:LEU:HD21	1:A:781:LEU:HD21	1.37	1.06
1:A:3303:ILE:HD11	1:A:3340:TYR:HE2	0.91	1.06
4:D:201:GLN:CD	9:I:102:ASN:HB3	1.80	1.06
5:E:82:GLY:HA2	8:H:12:LYS:NZ	1.69	1.06
1:A:1513:LYS:HE2	1:A:1578:ASN:OD1	1.53	1.05
1:A:3386:ASN:O	1:A:3390:VAL:HG23	1.55	1.05
2:B:444:LEU:CD2	5:E:515:LYS:NZ	2.18	1.05
2:B:582:MET:HE2	2:B:587:GLY:HA3	1.30	1.05
2:B:946:ARG:CA	2:B:955:PHE:HE2	1.68	1.05
2:B:1511:VAL:HA	2:B:1570:VAL:CB	1.84	1.05
3:C:2740:ILE:HB	3:C:2744:LYS:O	1.53	1.05
4:D:414:PHE:CD2	4:D:426:TRP:CD1	2.44	1.05
5:E:20:PHE:CE1	14:N:89:GLN:HA	1.91	1.05
5:E:164:VAL:CG2	5:E:181:TYR:HE1	1.66	1.05
1:A:760:ASP:OD2	1:A:764:ARG:CG	2.05	1.05
1:A:847:PHE:CD2	5:E:203:LEU:HD11	1.90	1.05
1:A:1101:HIS:HA	1:A:1163:LEU:CD1	1.85	1.05
1:A:1518:TRP:NE1	1:A:1545:ASP:OD1	1.89	1.05
1:A:3308:PRO:HD3	17:Q:57:LEU:N	1.71	1.05
2:B:436:PHE:HD2	2:B:463:PHE:CE1	1.73	1.05
2:B:501:ARG:CZ	4:D:491:GLN:CG	2.19	1.05
2:B:533:ARG:CB	2:B:534:PRO:HD2	1.86	1.05
2:B:1607:PRO:CG	2:B:1946:SER:CB	2.33	1.05
2:B:3262:LEU:O	2:B:3297:PHE:CZ	2.07	1.05
3:C:2740:ILE:CB	3:C:2744:LYS:HB3	1.86	1.05
4:D:80:PRO:HD2	15:O:103:TRP:CZ2	1.90	1.05
4:D:395:HIS:NE2	4:D:399:VAL:HG11	1.61	1.05
16:P:16:GLU:HA	16:P:74:LEU:CB	1.85	1.05
1:A:601:PRO:HB2	1:A:698:GLU:CG	1.85	1.05
1:A:688:PHE:HE1	1:A:693:MET:SD	1.78	1.05
1:A:801:ILE:HA	5:E:149:THR:HB	1.08	1.05
1:A:1396:PRO:CA	1:A:1400:TYR:CB	2.33	1.05
1:A:3306:LEU:O	1:A:3306:LEU:CD1	2.04	1.05
2:B:511:PHE:HE2	2:B:547:LEU:CD2	1.68	1.05
2:B:861:ASP:CG	3:C:171:ARG:CG	2.28	1.05
2:B:3230:ALA:HB3	2:B:3342:ASN:CG	1.77	1.05
4:D:195:ILE:HG21	9:I:94:LEU:HD22	1.34	1.05
4:D:285:PRO:HG3	4:D:584:ILE:HG22	1.35	1.05
4:D:297:LYS:NZ	4:D:328:LEU:CB	2.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:297:LYS:HE3	4:D:316:LEU:CD2	1.85	1.05
4:D:297:LYS:HE3	4:D:316:LEU:HD23	1.07	1.05
4:D:567:GLN:OE1	4:D:578:LYS:HD3	1.56	1.05
4:D:590:LEU:HD23	4:D:604:VAL:CG1	1.86	1.05
1:A:598:ARG:O	4:D:460:LEU:HD21	0.89	1.05
1:A:817:VAL:O	1:A:818:LEU:HD13	0.89	1.05
1:A:1151:MET:CE	4:D:176:ILE:HG12	1.86	1.05
2:B:409:SER:CB	2:B:413:PHE:HD1	1.45	1.05
2:B:1004:SER:OG	2:B:1094:TRP:CH2	2.07	1.05
3:C:24:HIS:NE2	3:C:325:SER:OG	1.66	1.05
4:D:106:ILE:HG13	15:O:99:SER:O	1.56	1.05
4:D:195:ILE:HD13	9:I:94:LEU:CD2	1.86	1.05
8:H:68:PHE:HB2	9:I:60:CYS:HB3	1.39	1.05
1:A:1623:ILE:HD11	1:A:1680:ILE:HD13	1.32	1.05
1:A:3252:GLN:HG2	17:Q:38:ILE:O	1.57	1.05
1:A:3305:LEU:HD13	17:Q:80:SER:N	1.71	1.05
2:B:1607:PRO:HB3	2:B:1946:SER:OG	1.57	1.05
3:C:2745:LYS:HD2	3:C:2749:VAL:HG22	1.34	1.05
5:E:261:HIS:ND1	5:E:283:SER:OG	1.84	1.05
1:A:801:ILE:HB	1:A:862:LEU:HD21	1.34	1.04
1:A:847:PHE:HD2	5:E:203:LEU:HD11	1.17	1.04
1:A:1445:PHE:HD2	1:A:1564:CYS:SG	1.79	1.04
2:B:345:ARG:CB	2:B:412:LEU:HD11	1.85	1.04
2:B:545:ILE:HD11	2:B:616:ARG:HH11	1.19	1.04
2:B:956:LEU:HD21	3:C:285:SER:HB3	1.07	1.04
4:D:517:ILE:HD13	4:D:527:ILE:HG23	1.32	1.04
8:H:46:LYS:CE	9:I:86:ASP:CB	2.34	1.04
10:J:21:PHE:HZ	10:J:37:LEU:CD2	1.69	1.04
14:N:89:GLN:HG2	14:N:94:ASP:HB2	1.38	1.04
1:A:598:ARG:HB3	4:D:460:LEU:HD22	1.34	1.04
1:A:601:PRO:HG2	1:A:698:GLU:HG3	1.09	1.04
1:A:837:GLN:HE22	1:A:958:ALA:HB1	1.17	1.04
1:A:1146:GLN:HG2	13:M:9:ALA:CB	1.61	1.04
1:A:3215:ILE:CG2	1:A:3219:ASP:OD2	2.04	1.04
1:A:3304:GLU:HB2	17:Q:77:LEU:C	1.82	1.04
2:B:165:LEU:O	2:B:169:LYS:N	1.91	1.04
2:B:789:LYS:HE3	2:B:839:LEU:CD2	1.87	1.04
2:B:1456:PHE:CE1	2:B:1563:VAL:CG1	2.22	1.04
2:B:1492:LYS:HE3	2:B:3606:GLN:NE2	1.72	1.04
4:D:567:GLN:HB3	4:D:578:LYS:HD2	1.39	1.04
5:E:46:ASN:ND2	12:L:25:ASP:OD2	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:112:LEU:CD2	6:F:97:MET:SD	2.45	1.04
7:G:119:PRO:HD2	9:I:12:ILE:HD13	1.34	1.04
7:G:120:THR:HG22	9:I:12:ILE:HG23	1.09	1.04
9:I:26:ASN:CB	9:I:98:PHE:CE2	2.40	1.04
1:A:700:LYS:HE2	4:D:456:LEU:H	1.21	1.04
1:A:801:ILE:CG2	1:A:862:LEU:CD2	2.31	1.04
1:A:3249:ILE:CD1	17:Q:106:PHE:CZ	2.40	1.04
2:B:444:LEU:CD2	5:E:515:LYS:CE	2.31	1.04
2:B:679:ARG:HB2	5:E:186:PHE:HE2	1.18	1.04
2:B:1106:PHE:CZ	2:B:1160:ILE:HD11	1.92	1.04
2:B:1242:GLN:O	2:B:1252:MET:N	1.88	1.04
3:C:2727:ILE:CD1	3:C:2745:LYS:CG	2.35	1.04
9:I:51:ALA:HB1	9:I:52:PRO:CD	1.87	1.04
10:J:21:PHE:CZ	10:J:37:LEU:CD2	2.40	1.04
12:L:73:GLU:CB	13:M:66:ILE:HD12	1.87	1.04
1:A:3446:ASN:OD1	1:A:3488:LEU:HD22	1.55	1.04
4:D:526:ARG:HB2	4:D:528:TRP:CH2	1.92	1.04
8:H:58:HIS:CD2	9:I:87:VAL:HG13	1.92	1.04
10:J:86:CYS:HB2	11:K:61:VAL:HG13	1.38	1.04
11:K:77:PHE:CE1	11:K:88:LEU:HD11	1.91	1.04
12:L:74:TRP:CE2	12:L:109:LYS:HD2	1.92	1.04
1:A:3248:LEU:HD13	17:Q:81:ARG:N	1.72	1.04
3:C:354:VAL:CG1	3:C:357:ILE:HD12	1.88	1.04
5:E:61:VAL:HG23	10:J:106:LEU:HD22	1.34	1.04
8:H:66:GLY:N	9:I:79:ILE:O	1.90	1.04
1:A:688:PHE:CE1	1:A:693:MET:CG	2.40	1.03
1:A:1121:LYS:HB3	1:A:1138:THR:HG21	1.05	1.03
1:A:3229:PRO:HB2	1:A:3233:ILE:CG2	1.87	1.03
2:B:429:LEU:HD11	2:B:489:PHE:CE2	1.92	1.03
2:B:794:LEU:O	2:B:797:PHE:CD2	2.11	1.03
2:B:882:LEU:O	2:B:886:ILE:HG22	1.56	1.03
3:C:205:ALA:CB	3:C:216:ILE:HG22	1.88	1.03
3:C:354:VAL:HG11	3:C:357:ILE:CD1	1.87	1.03
4:D:105:MET:CE	14:N:48:GLN:HA	1.88	1.03
4:D:266:TYR:HH	5:E:121:TYR:HB3	1.21	1.03
4:D:528:TRP:NE1	4:D:535:GLN:HB3	1.72	1.03
5:E:48:ILE:HG12	12:L:88:PHE:HZ	1.19	1.03
1:A:655:PHE:CE2	1:A:659:TRP:NE1	2.25	1.03
1:A:971:ASN:HA	1:A:985:PHE:HE2	0.91	1.03
1:A:1522:GLU:HG3	1:A:1523:PRO:HD3	1.07	1.03
2:B:52:PHE:C	2:B:53:ILE:N	2.15	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3078:ILE:HD12	2:B:3452:LEU:HD22	1.38	1.03
4:D:195:ILE:HG21	9:I:94:LEU:CD2	1.87	1.03
4:D:528:TRP:CD1	4:D:535:GLN:CA	2.41	1.03
7:G:120:THR:HG23	9:I:12:ILE:CG2	1.87	1.03
16:P:10:THR:HA	16:P:65:ASP:CB	1.86	1.03
1:A:599:ASN:HB3	4:D:419:SER:OG	1.59	1.03
1:A:709:ILE:CG2	1:A:710:PRO:HD2	1.89	1.03
1:A:1012:LYS:HB2	1:A:1071:ILE:HD13	1.07	1.03
1:A:1052:LEU:HB3	1:A:1166:TYR:CE2	1.93	1.03
2:B:673:PHE:CE1	2:B:677:LEU:HD13	1.93	1.03
2:B:718:ILE:HD11	2:B:773:VAL:CB	1.88	1.03
2:B:1238:LYS:HE3	2:B:1308:LEU:HA	1.08	1.03
2:B:1456:PHE:HE1	2:B:1563:VAL:HG12	1.20	1.03
3:C:1983:THR:HB	19:C:4305:ADP:HN62	1.14	1.03
3:C:2727:ILE:HD13	3:C:2745:LYS:CD	1.88	1.03
4:D:111:MET:HB3	15:O:95:LEU:H	1.20	1.03
4:D:148:GLU:HG2	4:D:149:PRO:HD2	1.09	1.03
4:D:584:ILE:HG21	4:D:614:VAL:CG2	1.88	1.03
17:Q:68:LEU:O	17:Q:92:ASP:CB	2.06	1.03
1:A:700:LYS:CE	4:D:456:LEU:H	1.70	1.03
1:A:1067:PRO:CD	1:A:1067:PRO:N	2.19	1.03
1:A:1505:ASN:O	1:A:1509:ASP:OD2	1.74	1.03
1:A:3232:ILE:HD11	1:A:3316:TRP:HZ3	1.20	1.03
2:B:433:ILE:HG23	2:B:463:PHE:HZ	0.92	1.03
2:B:518:TYR:CE1	5:E:407:TYR:HE2	1.77	1.03
2:B:741:ILE:HD13	2:B:776:LEU:HD11	1.38	1.03
2:B:966:LYS:HD3	3:C:345:TRP:N	1.72	1.03
2:B:1058:LYS:CG	2:B:1166:GLU:CB	2.21	1.03
2:B:1511:VAL:CA	2:B:1570:VAL:CG1	2.35	1.03
2:B:1511:VAL:CG2	2:B:1570:VAL:CG2	2.35	1.03
2:B:1559:MET:CG	2:B:1577:ARG:HH22	1.71	1.03
2:B:3150:VAL:CG1	2:B:3423:VAL:CG2	2.33	1.03
5:E:16:ASN:HB2	15:O:132:GLU:HA	1.26	1.03
5:E:492:ASP:CA	5:E:495:TYR:CE2	2.42	1.03
9:I:78:ILE:HD12	9:I:106:LEU:HB3	1.41	1.03
10:J:77:HIS:ND1	11:K:70:VAL:HG22	1.70	1.03
1:A:590:GLN:HB2	1:A:609:TRP:CZ2	1.94	1.03
1:A:670:LEU:HB2	1:A:692:ILE:CD1	1.89	1.03
1:A:1126:VAL:CA	1:A:1131:SER:OG	2.06	1.03
1:A:3249:ILE:HG13	1:A:3273:TYR:HA	1.07	1.03
1:A:3305:LEU:HD22	17:Q:80:SER:N	1.71	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:444:LEU:HD11	2:B:527:PHE:HE1	0.87	1.03
2:B:1051:ASP:HB3	2:B:1162:THR:HG21	1.37	1.03
2:B:1607:PRO:CB	2:B:1946:SER:OG	2.06	1.03
3:C:2727:ILE:CD1	3:C:2745:LYS:CD	2.35	1.03
5:E:22:ASP:HB3	14:N:91:THR:HG23	1.05	1.03
5:E:310:LEU:HD21	5:E:358:ARG:NH2	1.72	1.03
5:E:394:TRP:CD1	5:E:401:PRO:CA	2.42	1.03
7:G:119:PRO:HG2	9:I:12:ILE:HG21	1.06	1.03
1:A:597:VAL:HG12	4:D:460:LEU:HD11	1.36	1.02
1:A:3300:GLU:HB2	17:Q:99:GLN:CB	1.88	1.02
2:B:581:ASN:ND2	5:E:184:MET:HE3	1.72	1.02
2:B:679:ARG:CB	5:E:186:PHE:CE2	2.41	1.02
2:B:3164:VAL:CG1	2:B:3409:ALA:HB2	1.89	1.02
3:C:2694:ALA:CB	3:C:2823:TYR:CB	2.36	1.02
3:C:2725:ALA:O	3:C:2729:LEU:HG	1.59	1.02
4:D:80:PRO:CG	15:O:103:TRP:HE1	1.71	1.02
4:D:251:MET:HB3	7:G:136:MET:HE3	1.41	1.02
4:D:518:SER:OG	4:D:528:TRP:CZ3	2.11	1.02
5:E:46:ASN:HB3	12:L:88:PHE:CE1	1.93	1.02
5:E:492:ASP:HA	5:E:495:TYR:CZ	1.93	1.02
7:G:58:SER:O	7:G:62:ASP:N	1.91	1.02
8:H:76:TYR:HE1	8:H:87:LEU:HD11	1.21	1.02
1:A:38:LYS:HA	1:A:44:PHE:CB	1.90	1.02
1:A:601:PRO:CG	1:A:698:GLU:CG	2.24	1.02
1:A:3298:ILE:C	1:A:3343:HIS:CE1	2.33	1.02
2:B:436:PHE:CD2	2:B:463:PHE:CD1	2.47	1.02
2:B:500:GLU:OE1	2:B:535:ILE:HD12	0.85	1.02
2:B:641:ILE:O	2:B:645:GLU:HG3	1.58	1.02
2:B:966:LYS:CG	3:C:343:ASN:O	2.08	1.02
2:B:966:LYS:O	3:C:344:ASN:HB2	1.58	1.02
2:B:3264:ASN:CB	2:B:3306:ILE:CD1	2.24	1.02
3:C:2711:SER:O	3:C:2751:TRP:HZ2	1.42	1.02
3:C:2892:ARG:HD3	3:C:3184:LEU:CB	1.88	1.02
4:D:236:MET:CB	7:G:143:PHE:HE2	1.70	1.02
5:E:282:THR:HG23	5:E:322:LEU:HD12	1.38	1.02
6:F:56:TRP:CG	6:F:91:GLN:HE22	1.77	1.02
8:H:46:LYS:CE	9:I:86:ASP:HB3	1.88	1.02
8:H:58:HIS:HD2	9:I:87:VAL:HG13	1.17	1.02
15:O:45:ARG:CB	15:O:63:LEU:HD13	1.89	1.02
1:A:597:VAL:HB	1:A:600:MET:HG3	1.39	1.02
1:A:1136:MET:HG3	4:D:166:PHE:HD1	1.23	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:MET:HE3	4:D:176:ILE:HG12	1.37	1.02
1:A:3106:LYS:CG	1:A:3443:LEU:CD1	2.37	1.02
1:A:3305:LEU:HA	17:Q:78:SER:O	1.24	1.02
2:B:1511:VAL:N	2:B:1570:VAL:HG11	1.74	1.02
2:B:1607:PRO:HG2	2:B:1946:SER:CB	1.90	1.02
3:C:261:ILE:HG13	3:C:360:PRO:CB	1.89	1.02
4:D:528:TRP:CD1	4:D:535:GLN:HA	1.93	1.02
8:H:12:LYS:HG2	8:H:80:TYR:CD2	1.95	1.02
14:N:72:ILE:HG21	15:O:97:ILE:HD11	1.04	1.02
16:P:39:TRP:C	16:P:40:SER:N	2.17	1.02
1:A:1121:LYS:CB	1:A:1138:THR:HG21	1.89	1.02
2:B:443:GLU:CD	5:E:514:ARG:NH1	2.18	1.02
2:B:798:ASN:CB	2:B:874:ALA:CB	2.31	1.02
2:B:829:VAL:HG11	2:B:940:ILE:HG23	1.38	1.02
2:B:1002:GLN:HA	2:B:1094:TRP:CZ2	1.94	1.02
2:B:1123:GLY:HA2	2:B:1197:PHE:CE1	1.94	1.02
2:B:1127:ASN:HB3	2:B:1128:PRO:HD3	1.38	1.02
2:B:3153:LEU:HD13	2:B:3707:LEU:HD12	1.42	1.02
3:C:2745:LYS:CG	3:C:2749:VAL:HG21	1.88	1.02
5:E:446:ILE:HD12	5:E:446:ILE:H	1.23	1.02
10:J:34:ASP:HB2	15:O:31:PRO:CG	1.88	1.02
12:L:77:ILE:HG12	13:M:65:ILE:HD11	1.37	1.02
14:N:70:THR:HG22	15:O:99:SER:CB	1.89	1.02
1:A:726:TYR:HE1	1:A:777:ILE:HG23	1.18	1.02
1:A:732:TYR:CB	4:D:390:VAL:HB	1.90	1.02
1:A:793:GLN:CB	5:E:451:LYS:HB3	1.84	1.02
1:A:1126:VAL:O	1:A:1208:TYR:OH	1.75	1.02
1:A:1139:LEU:C	4:D:169:ASN:HD21	1.68	1.02
1:A:3449:LEU:HD23	1:A:3488:LEU:HD23	1.40	1.02
2:B:966:LYS:HA	3:C:343:ASN:C	1.85	1.02
2:B:1437:GLU:HG2	2:B:1493:TYR:CB	1.89	1.02
2:B:1511:VAL:HG22	2:B:1570:VAL:HB	1.02	1.02
3:C:165:GLY:C	3:C:174:PHE:CZ	2.37	1.02
3:C:2720:PRO:HB3	3:C:2798:PHE:HE2	1.24	1.02
3:C:2740:ILE:CG2	3:C:2744:LYS:CB	2.02	1.02
4:D:170:THR:HG22	13:M:66:ILE:HA	1.39	1.02
5:E:70:ASP:CG	9:I:64:LYS:CE	2.33	1.02
16:P:11:THR:O	16:P:67:LEU:HA	1.55	1.02
1:A:1151:MET:HE1	4:D:176:ILE:HA	1.04	1.01
1:A:1638:THR:HB	1:A:1655:GLN:HG3	1.42	1.01
1:A:3121:LEU:CD2	1:A:3429:TRP:HB2	1.84	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3235:TYR:HE2	1:A:3269:LEU:HD11	1.19	1.01
2:B:87:LYS:O	2:B:103:ASN:CA	2.07	1.01
2:B:429:LEU:HD11	2:B:489:PHE:CD2	1.90	1.01
2:B:528:GLU:CD	5:E:526:GLN:HE21	1.66	1.01
2:B:1559:MET:HE2	2:B:1577:ARG:HH21	1.21	1.01
2:B:3261:ILE:CG2	2:B:3306:ILE:HG23	1.89	1.01
3:C:2585:PHE:HB2	3:C:2932:SER:CB	1.89	1.01
4:D:173:CYS:O	13:M:63:SER:N	1.91	1.01
4:D:174:GLN:CB	13:M:62:GLY:CA	2.36	1.01
4:D:360:ALA:HB3	5:E:133:PHE:HZ	1.19	1.01
1:A:550:HIS:CB	4:D:654:ASN:O	2.08	1.01
1:A:580:LEU:HD22	1:A:640:SER:HB3	1.02	1.01
1:A:598:ARG:NH1	4:D:504:TYR:CG	2.27	1.01
1:A:704:ARG:NH1	4:D:455:GLY:O	1.91	1.01
1:A:1444:GLN:HB3	1:A:1559:LYS:O	1.60	1.01
2:B:789:LYS:HB3	2:B:839:LEU:HD13	1.40	1.01
2:B:883:ASN:HA	2:B:886:ILE:CG2	1.90	1.01
2:B:952:PRO:HG3	3:C:223:THR:HB	1.36	1.01
2:B:1456:PHE:HZ	2:B:1563:VAL:HG13	1.04	1.01
2:B:3234:LEU:HD13	2:B:3336:LEU:HD23	1.42	1.01
3:C:2639:ASP:HB2	3:C:2643:GLU:CD	1.84	1.01
3:C:2719:VAL:HG13	3:C:2720:PRO:HD3	1.41	1.01
3:C:2793:LEU:C	3:C:2796:PRO:HD3	1.80	1.01
4:D:75:LEU:HD23	4:D:75:LEU:H	1.24	1.01
7:G:58:SER:C	7:G:59:GLU:N	2.19	1.01
10:J:38:GLU:CD	15:O:29:PHE:CZ	2.38	1.01
1:A:597:VAL:CG1	4:D:502:ALA:HB1	1.73	1.01
1:A:760:ASP:OD2	1:A:764:ARG:HG2	1.61	1.01
1:A:970:TYR:O	1:A:983:ALA:CB	2.09	1.01
2:B:349:ASN:CA	2:B:416:LEU:CD2	2.37	1.01
2:B:444:LEU:CA	5:E:515:LYS:HG2	1.85	1.01
2:B:801:ILE:CD1	2:B:937:PHE:CD1	2.42	1.01
2:B:2666:ARG:CD	20:B:5403:ATP:O1G	2.08	1.01
3:C:60:LEU:CD2	3:C:69:TRP:CH2	2.42	1.01
4:D:177:ASN:ND2	13:M:60:ASN:CB	1.77	1.01
5:E:35:VAL:O	14:N:78:HIS:ND1	1.92	1.01
5:E:61:VAL:HG22	10:J:106:LEU:HD22	1.20	1.01
6:F:50:ALA:HA	8:H:83:GLN:CG	1.88	1.01
8:H:65:PHE:HA	9:I:80:GLY:HA3	1.41	1.01
1:A:597:VAL:CG1	4:D:477:GLU:HG2	1.90	1.01
1:A:700:LYS:HE2	4:D:456:LEU:N	1.76	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:805:ARG:HH12	5:E:152:LEU:HD23	1.25	1.01
1:A:990:ALA:CB	18:R:119:GLU:CB	2.39	1.01
1:A:2164:SER:OG	20:A:4702:ATP:O1B	1.77	1.01
1:A:3250:PRO:HD3	17:Q:106:PHE:CD2	1.95	1.01
2:B:87:LYS:O	2:B:103:ASN:HA	1.59	1.01
2:B:1447:ILE:HG22	2:B:1504:TRP:CZ2	1.95	1.01
2:B:1607:PRO:HG2	2:B:1946:SER:HB3	1.01	1.01
3:C:2721:GLU:OE1	3:C:2814:CYS:HA	1.59	1.01
3:C:2735:ASN:HB3	3:C:2757:LEU:CA	1.89	1.01
4:D:174:GLN:NE2	12:L:51:LYS:H	1.59	1.01
4:D:569:TYR:CE2	4:D:578:LYS:CG	2.42	1.01
8:H:54:HIS:NE2	18:R:62:LYS:HA	1.75	1.01
1:A:612:HIS:CE1	4:D:522:ASP:CG	2.33	1.01
1:A:747:ILE:CD1	1:A:889:TYR:CE1	2.44	1.01
1:A:1504:VAL:HG22	1:A:1565:CYS:SG	2.00	1.01
2:B:857:LYS:C	3:C:170:GLN:N	2.12	1.01
4:D:68:GLU:HG3	5:E:12:LYS:HA	1.40	1.01
4:D:170:THR:HG22	13:M:66:ILE:HG12	1.12	1.01
4:D:552:PRO:CD	4:D:595:PHE:HD2	1.64	1.01
5:E:119:CYS:CB	6:F:88:ILE:HD13	1.91	1.01
6:F:35:ARG:CZ	6:F:41:SER:HB2	1.89	1.01
1:A:95:PHE:O	1:A:124:THR:N	1.93	1.00
1:A:1051:GLN:OE1	1:A:1096:TYR:CE1	2.14	1.00
1:A:1114:GLN:O	1:A:1118:LEU:HD22	1.57	1.00
1:A:1121:LYS:HB3	1:A:1138:THR:CG2	1.91	1.00
1:A:1513:LYS:HD3	1:A:1578:ASN:ND2	1.72	1.00
1:A:1633:ALA:HB2	1:A:1839:LEU:O	1.58	1.00
1:A:3099:TYR:HA	1:A:3451:THR:HG21	1.41	1.00
2:B:532:THR:H	2:B:536:ILE:HD12	1.26	1.00
2:B:533:ARG:HB3	2:B:534:PRO:HD2	1.01	1.00
4:D:172:GLU:HA	13:M:64:HIS:CB	1.86	1.00
5:E:16:ASN:HB3	15:O:132:GLU:CG	1.80	1.00
12:L:84:CYS:CB	13:M:56:ILE:HG12	1.92	1.00
1:A:597:VAL:HG11	4:D:477:GLU:CA	1.90	1.00
1:A:688:PHE:CE1	1:A:693:MET:HG2	1.95	1.00
1:A:700:LYS:CG	4:D:455:GLY:HA3	1.91	1.00
1:A:1136:MET:HE2	1:A:1136:MET:HA	1.40	1.00
1:A:3106:LYS:HG2	1:A:3443:LEU:CG	1.91	1.00
2:B:444:LEU:CD1	2:B:527:PHE:HE1	1.74	1.00
2:B:582:MET:HE2	2:B:587:GLY:N	1.74	1.00
2:B:946:ARG:HA	2:B:955:PHE:CZ	1.95	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3118:TYR:CD2	2:B:3452:LEU:HA	1.97	1.00
2:B:3342:ASN:O	2:B:3346:PHE:CB	2.08	1.00
14:N:86:THR:OG1	15:O:83:VAL:HG13	1.60	1.00
1:A:867:MET:SD	1:A:878:VAL:HG11	2.01	1.00
1:A:3298:ILE:CA	1:A:3343:HIS:HE1	1.74	1.00
1:A:3301:GLU:O	17:Q:78:SER:CA	2.09	1.00
2:B:744:MET:HG3	2:B:776:LEU:HD22	1.43	1.00
2:B:861:ASP:OD2	3:C:169:TYR:O	1.78	1.00
2:B:897:SER:CB	2:B:898:PRO:CD	2.40	1.00
3:C:159:TYR:CD1	3:C:179:VAL:CG2	2.44	1.00
4:D:173:CYS:N	13:M:63:SER:O	1.92	1.00
4:D:174:GLN:HE21	12:L:51:LYS:H	1.04	1.00
5:E:23:THR:HG21	14:N:88:TYR:HD1	1.24	1.00
6:F:56:TRP:CE2	6:F:91:GLN:NE2	2.23	1.00
10:J:61:ALA:CB	10:J:80:PHE:HE2	1.63	1.00
1:A:1020:PHE:HA	1:A:1023:PHE:HE2	1.25	1.00
1:A:1513:LYS:HD3	1:A:1578:ASN:HD21	1.22	1.00
4:D:620:LEU:HD12	4:D:620:LEU:O	1.61	1.00
1:A:21:LEU:O	1:A:25:ASP:CA	2.09	1.00
1:A:617:ILE:HD12	1:A:647:GLN:NE2	1.77	1.00
1:A:634:ILE:CG2	1:A:638:TYR:OH	2.07	1.00
1:A:700:LYS:HE2	4:D:455:GLY:CA	1.91	1.00
1:A:3446:ASN:CG	1:A:3488:LEU:CD1	2.33	1.00
2:B:939:ASN:HD22	3:C:283:THR:HB	1.23	1.00
3:C:2018:GLN:NE2	19:C:4305:ADP:H2'	1.77	1.00
1:A:937:LEU:HD13	1:A:1081:ILE:HG12	1.42	1.00
1:A:3194:ALA:HB1	1:A:3356:VAL:CG2	1.91	1.00
2:B:736:LEU:HD12	2:B:859:TYR:CB	1.90	1.00
4:D:184:GLY:CA	11:K:69:TYR:HD1	1.75	1.00
4:D:242:LYS:HG2	7:G:60:VAL:CG2	1.91	1.00
5:E:70:ASP:CG	9:I:64:LYS:HE2	1.87	1.00
17:Q:69:ASN:CA	17:Q:92:ASP:CB	2.40	1.00
1:A:726:TYR:CE1	1:A:777:ILE:HG23	1.95	1.00
1:A:1396:PRO:HA	1:A:1400:TYR:CB	1.90	1.00
1:A:1417:GLU:O	1:A:1421:GLU:HG3	1.61	1.00
2:B:725:ILE:HG21	2:B:776:LEU:HG	1.42	1.00
2:B:1467:PHE:HE2	2:B:1560:MET:SD	1.80	0.99
2:B:3300:GLU:OE2	2:B:3354:LYS:CD	2.10	0.99
3:C:143:PRO:HD3	3:C:187:TRP:NE1	1.77	0.99
4:D:174:GLN:HB3	12:L:51:LYS:HB2	1.44	0.99
1:A:971:ASN:CA	1:A:985:PHE:HE2	1.75	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1205:GLN:CG	4:D:166:PHE:CE2	2.45	0.99
2:B:3153:LEU:HD12	2:B:3707:LEU:HD11	1.05	0.99
2:B:3445:LYS:HB3	2:B:3487:PRO:HB3	1.44	0.99
3:C:2585:PHE:CD1	3:C:2929:LEU:HA	1.96	0.99
3:C:2800:PRO:HD2	3:C:2801:GLU:N	1.77	0.99
4:D:175:THR:N	13:M:61:PHE:O	1.93	0.99
8:H:89:PHE:HE2	9:I:76:GLN:OE1	1.45	0.99
1:A:577:ALA:HB2	1:A:636:ARG:HD3	0.99	0.99
1:A:1140:GLU:OE1	4:D:165:LYS:CE	2.10	0.99
2:B:679:ARG:CB	5:E:186:PHE:HE2	1.75	0.99
4:D:262:HIS:HA	5:E:125:GLN:HE22	1.26	0.99
9:I:78:ILE:HD11	9:I:106:LEU:HD23	1.00	0.99
2:B:59:THR:O	2:B:82:ASP:N	1.93	0.99
2:B:950:THR:OG1	3:C:222:PHE:HB3	1.57	0.99
2:B:963:PHE:CE1	3:C:39:LEU:CD1	2.44	0.99
2:B:1511:VAL:CG2	2:B:1570:VAL:HB	1.89	0.99
10:J:26:VAL:HG23	10:J:97:TYR:O	1.58	0.99
1:A:1205:GLN:HG2	4:D:166:PHE:CE2	1.97	0.99
1:A:3121:LEU:HD21	1:A:3429:TRP:CA	1.91	0.99
2:B:444:LEU:CD2	2:B:526:ASN:ND2	2.23	0.99
2:B:3140:LEU:CB	2:B:3433:TRP:HE3	1.72	0.99
4:D:111:MET:HE1	15:O:90:ILE:HB	1.45	0.99
1:A:121:GLY:H	2:B:106:LYS:HA	1.27	0.99
1:A:3249:ILE:HD12	17:Q:106:PHE:CZ	1.96	0.99
2:B:939:ASN:O	3:C:283:THR:CB	2.09	0.99
3:C:165:GLY:CA	3:C:174:PHE:HE2	1.76	0.99
4:D:367:LEU:HG	4:D:371:THR:OG1	1.60	0.99
4:D:571:LEU:HD13	4:D:647:TYR:CE2	1.97	0.99
1:A:1114:GLN:O	1:A:1118:LEU:HD23	1.58	0.99
2:B:679:ARG:HB2	5:E:186:PHE:CE2	1.98	0.99
2:B:897:SER:HB2	2:B:898:PRO:HD2	1.41	0.99
2:B:966:LYS:HG2	3:C:343:ASN:O	1.62	0.99
5:E:16:ASN:HB2	15:O:132:GLU:C	1.85	0.99
1:A:972:TRP:HZ3	1:A:985:PHE:CZ	1.61	0.99
1:A:3249:ILE:CD1	1:A:3273:TYR:HA	1.92	0.99
1:A:3306:LEU:CD1	1:A:3310:LEU:HG	1.91	0.99
2:B:963:PHE:CE2	3:C:51:ILE:HG21	1.97	0.99
4:D:105:MET:SD	14:N:48:GLN:CA	2.51	0.99
8:H:76:TYR:CE1	8:H:87:LEU:HD11	1.96	0.99
8:H:89:PHE:CE2	9:I:76:GLN:OE1	2.16	0.99
14:N:84:GLN:NE2	15:O:61:GLU:HB2	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ARG:CB	4:D:460:LEU:HD13	1.92	0.99
1:A:717:LEU:HD21	4:D:455:GLY:N	1.77	0.99
1:A:891:PHE:CD1	1:A:972:TRP:CZ3	2.51	0.99
1:A:972:TRP:HZ3	1:A:985:PHE:CE1	1.80	0.99
1:A:3124:ILE:HD12	1:A:3429:TRP:CD1	1.98	0.99
2:B:575:ASN:CA	5:E:481:GLN:HE22	1.76	0.99
4:D:89:TYR:CD2	11:K:56:PRO:HG3	1.98	0.99
5:E:14:PHE:CZ	15:O:22:LEU:O	2.16	0.99
6:F:74:ILE:HD12	6:F:77:ILE:HD11	1.44	0.99
1:A:670:LEU:HB2	1:A:692:ILE:HD11	1.00	0.99
1:A:801:ILE:CG1	5:E:149:THR:CB	2.41	0.99
1:A:861:ASP:OD2	5:E:152:LEU:CB	0.69	0.99
3:C:2727:ILE:CD1	3:C:2745:LYS:HB3	1.92	0.99
1:A:616:LYS:O	1:A:620:PRO:CD	2.10	0.98
1:A:935:VAL:HG21	1:A:1017:LEU:HD21	1.45	0.98
1:A:1031:ILE:HG23	1:A:1034:SER:OG	1.61	0.98
2:B:669:ILE:HD13	2:B:719:VAL:HG13	1.45	0.98
3:C:180:LEU:HD12	3:C:180:LEU:O	1.63	0.98
1:A:600:MET:HE1	4:D:458:CYS:SG	2.01	0.98
1:A:804:ASN:HB3	5:E:150:LEU:HD23	1.02	0.98
1:A:1234:GLY:O	1:A:1252:PHE:CB	2.11	0.98
3:C:2727:ILE:HD13	3:C:2745:LYS:HD3	1.00	0.98
9:I:51:ALA:HB1	9:I:52:PRO:HD3	1.43	0.98
10:J:19:LYS:HB2	10:J:28:TRP:HB2	1.43	0.98
10:J:38:GLU:OE2	15:O:29:PHE:CE2	2.15	0.98
2:B:533:ARG:CB	2:B:534:PRO:CD	2.37	0.98
2:B:3118:TYR:HB2	2:B:3455:SER:HB2	1.39	0.98
1:A:597:VAL:HG11	4:D:477:GLU:HG2	1.43	0.98
1:A:598:ARG:N	4:D:460:LEU:HD11	1.77	0.98
1:A:686:VAL:HG21	1:A:731:LEU:HD23	1.00	0.98
1:A:800:ASP:HA	5:E:148:LYS:HA	0.99	0.98
1:A:1013:VAL:HG13	1:A:1076:LEU:CD1	1.93	0.98
1:A:3245:LYS:HB3	17:Q:124:ILE:CA	1.94	0.98
2:B:532:THR:HG22	2:B:536:ILE:CG1	1.93	0.98
2:B:946:ARG:N	2:B:955:PHE:HE2	1.59	0.98
2:B:966:LYS:HB3	3:C:344:ASN:CA	1.92	0.98
2:B:1531:ILE:HG21	2:B:1595:LEU:HD11	1.42	0.98
4:D:91:TYR:HE2	13:M:80:LEU:HB2	1.17	0.98
1:A:1029:GLU:HA	1:A:1088:TRP:CZ2	1.98	0.98
1:A:3042:PHE:CZ	1:A:3100:LYS:HE2	1.98	0.98
4:D:529:ASP:OD2	4:D:532:TYR:CD2	2.16	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:569:TYR:OH	4:D:578:LYS:CD	2.10	0.98
10:J:74:PRO:CG	12:L:102:ARG:HD3	1.93	0.98
1:A:597:VAL:CG2	4:D:502:ALA:HB2	1.93	0.98
2:B:1511:VAL:CA	2:B:1570:VAL:HG11	1.93	0.98
4:D:563:MET:O	4:D:564:ASP:OD1	1.82	0.98
5:E:80:TRP:HE3	5:E:81:PRO:HD2	1.27	0.98
6:F:14:LEU:CD2	6:F:23:TYR:CD2	2.47	0.98
1:A:3110:LEU:HD11	1:A:3443:LEU:HD22	1.43	0.98
1:A:3443:LEU:HD12	1:A:3493:PHE:HZ	0.82	0.98
2:B:436:PHE:CD2	2:B:463:PHE:CE1	2.52	0.98
3:C:354:VAL:HG21	3:C:357:ILE:HG13	1.42	0.98
4:D:517:ILE:CD1	4:D:527:ILE:CG2	2.41	0.98
5:E:14:PHE:HZ	15:O:22:LEU:O	1.43	0.98
5:E:310:LEU:HG	5:E:358:ARG:CZ	1.93	0.98
7:G:111:ARG:O	7:G:114:VAL:HG12	1.63	0.98
1:A:3257:VAL:HG11	1:A:3266:VAL:HG13	1.27	0.98
3:C:2793:LEU:C	3:C:2796:PRO:HD2	1.83	0.98
1:A:590:GLN:CB	1:A:609:TRP:CZ2	2.47	0.98
1:A:1424:ASP:O	1:A:1428:LYS:N	1.96	0.98
1:A:2496:GLY:HA2	19:A:4701:ADP:O1B	1.64	0.98
2:B:725:ILE:CD1	2:B:777:PHE:HA	1.92	0.98
2:B:952:PRO:HB2	3:C:223:THR:C	1.78	0.98
2:B:1559:MET:HE2	2:B:1577:ARG:HD3	1.42	0.98
4:D:70:MET:HE2	5:E:13:GLU:CG	1.93	0.98
16:P:57:ILE:CB	16:P:64:ILE:O	2.12	0.98
1:A:807:GLU:CG	1:A:811:LYS:HE3	1.94	0.98
1:A:1140:GLU:CD	4:D:165:LYS:CE	2.37	0.98
2:B:969:LEU:HD12	3:C:343:ASN:CB	1.69	0.98
3:C:132:GLU:OE1	3:C:133:PRO:HD2	1.63	0.98
5:E:310:LEU:HD11	5:E:358:ARG:NH2	1.78	0.98
1:A:614:PHE:CD1	1:A:644:LEU:CD2	2.47	0.97
1:A:861:ASP:CG	5:E:152:LEU:HB3	1.59	0.97
2:B:963:PHE:HZ	3:C:39:LEU:CD2	1.38	0.97
2:B:1507:LYS:HD3	2:B:1571:GLU:OE1	1.64	0.97
5:E:61:VAL:HG21	10:J:106:LEU:HD13	1.44	0.97
6:F:35:ARG:NE	6:F:41:SER:HB2	1.79	0.97
1:A:747:ILE:HD11	1:A:889:TYR:CE1	1.97	0.97
1:A:800:ASP:HA	5:E:148:LYS:CA	1.93	0.97
1:A:857:ARG:HH22	5:E:207:SER:HA	1.21	0.97
1:A:3335:TRP:CH2	1:A:3339:ILE:HD11	1.99	0.97
2:B:598:ARG:HB2	5:E:367:LEU:CD1	1.93	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:946:ARG:CA	2:B:955:PHE:CE2	2.43	0.97
5:E:59:HIS:HD2	10:J:90:HIS:CE1	1.81	0.97
1:A:3106:LYS:HG2	1:A:3443:LEU:HD11	0.98	0.97
2:B:857:LYS:O	3:C:169:TYR:C	1.98	0.97
3:C:2793:LEU:HA	3:C:2796:PRO:HG2	1.45	0.97
18:R:82:ALA:CA	18:R:83:ASN:N	2.27	0.97
1:A:1028:LYS:O	1:A:1088:TRP:HH2	1.46	0.97
1:A:3236:ILE:CG2	1:A:3333:LEU:HD23	1.87	0.97
1:A:3335:TRP:CZ3	1:A:3339:ILE:CD1	2.47	0.97
2:B:582:MET:HE1	2:B:587:GLY:HA2	0.97	0.97
1:A:15:THR:HA	2:B:19:SER:HA	1.44	0.97
2:B:1456:PHE:HE1	2:B:1458:PHE:CZ	1.82	0.97
4:D:360:ALA:CB	5:E:133:PHE:HZ	1.77	0.97
4:D:421:GLY:HA3	4:D:441:LEU:HD12	1.45	0.97
1:A:871:LEU:HD23	1:A:875:VAL:HG13	1.46	0.97
1:A:3106:LYS:HG3	1:A:3443:LEU:HD21	1.06	0.97
2:B:511:PHE:CE2	2:B:547:LEU:HD21	1.99	0.97
2:B:1174:HIS:O	2:B:1178:ILE:HG13	1.65	0.97
3:C:2639:ASP:O	3:C:2642:ALA:HB3	1.63	0.97
8:H:51:SER:O	18:R:63:ASN:CA	2.03	0.97
11:K:77:PHE:CD1	11:K:90:TYR:HB3	1.98	0.97
1:A:659:TRP:HZ2	1:A:702:LEU:HD11	0.93	0.97
1:A:971:ASN:HB3	1:A:983:ALA:HA	1.45	0.97
1:A:1151:MET:SD	4:D:176:ILE:HG13	2.04	0.97
1:A:1205:GLN:NE2	4:D:166:PHE:CD2	0.77	0.97
2:B:595:LEU:HD23	5:E:389:TRP:CZ2	1.98	0.97
2:B:659:THR:CG2	2:B:757:TRP:HE1	1.77	0.97
2:B:789:LYS:HE3	2:B:839:LEU:HD22	1.45	0.97
2:B:897:SER:CB	2:B:898:PRO:HD2	1.95	0.97
1:A:612:HIS:HA	4:D:500:LEU:HD11	1.46	0.97
2:B:1127:ASN:CB	2:B:1128:PRO:CD	2.43	0.97
2:B:3234:LEU:CD1	2:B:3336:LEU:HD23	1.95	0.97
3:C:2734:PHE:HE2	3:C:2767:LYS:CD	1.72	0.97
1:A:803:GLU:HG2	5:E:148:LYS:HD3	1.43	0.97
1:A:870:PRO:C	1:A:871:LEU:HD13	1.88	0.97
3:C:10:LEU:HD21	3:C:65:ASN:C	1.88	0.97
3:C:2927:ASP:CG	3:C:2974:ILE:HD13	1.89	0.97
9:I:81:GLU:CD	9:I:102:ASN:HB2	1.90	0.97
3:C:2721:GLU:OE2	3:C:2798:PHE:HE1	1.46	0.97
6:F:56:TRP:CE3	6:F:74:ILE:HD11	2.00	0.97
14:N:84:GLN:HG3	15:O:61:GLU:HA	1.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:LYS:C	2:B:19:SER:O	2.08	0.96
2:B:445:GLY:HA2	5:E:511:ARG:CZ	1.93	0.96
2:B:1317:LEU:CA	16:P:61:GLU:HA	1.95	0.96
2:B:1559:MET:HG3	2:B:1577:ARG:HH22	1.28	0.96
2:B:724:HIS:CD2	2:B:728:CYS:SG	2.57	0.96
4:D:113:GLY:HA3	15:O:92:GLY:O	1.62	0.96
5:E:420:THR:HG21	5:E:472:SER:O	1.63	0.96
9:I:78:ILE:CD1	9:I:106:LEU:HD23	1.94	0.96
1:A:612:HIS:O	4:D:500:LEU:HD21	0.79	0.96
1:A:704:ARG:HH12	4:D:455:GLY:C	1.72	0.96
1:A:1433:LEU:CD1	1:A:1490:PHE:CD1	2.47	0.96
1:A:3248:LEU:HD13	17:Q:80:SER:CA	1.96	0.96
2:B:409:SER:HA	2:B:413:PHE:HD1	1.25	0.96
3:C:136:ALA:CB	3:C:168:ASN:OD1	2.13	0.96
1:A:50:LEU:O	1:A:102:ALA:HB3	1.65	0.96
2:B:1208:LYS:HA	2:B:1208:LYS:HE3	1.45	0.96
6:F:14:LEU:HD21	6:F:23:TYR:HB3	1.00	0.96
14:N:89:GLN:CG	14:N:94:ASP:HB2	1.95	0.96
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.27	0.96
1:A:3212:VAL:CG2	1:A:3338:ALA:HB3	1.96	0.96
2:B:794:LEU:CA	2:B:797:PHE:CD2	2.48	0.96
2:B:1456:PHE:CE1	2:B:1467:PHE:CE1	2.52	0.96
2:B:3150:VAL:HG12	2:B:3423:VAL:HG22	1.43	0.96
3:C:2800:PRO:CD	3:C:2801:GLU:H	1.77	0.96
4:D:105:MET:CE	14:N:47:THR:C	2.38	0.96
4:D:114:ASP:OD1	5:E:43:ARG:NH1	1.97	0.96
14:N:72:ILE:HD13	15:O:97:ILE:CD1	1.94	0.96
1:A:580:LEU:HD21	1:A:640:SER:HB3	1.31	0.96
1:A:805:ARG:N	5:E:150:LEU:HA	1.64	0.96
1:A:872:ASP:OD1	1:A:873:PRO:HD2	1.64	0.96
1:A:913:VAL:HG11	1:A:1005:SER:HB2	1.47	0.96
1:A:3335:TRP:CH2	1:A:3339:ILE:CD1	2.49	0.96
2:B:861:ASP:HB3	3:C:171:ARG:HD2	1.46	0.96
2:B:963:PHE:CZ	3:C:39:LEU:CG	2.47	0.96
2:B:3264:ASN:HB2	2:B:3306:ILE:HD11	1.10	0.96
3:C:2581:LEU:CD1	3:C:2936:SER:OG	2.13	0.96
4:D:212:ILE:HD11	9:I:19:MET:HE3	1.45	0.96
5:E:61:VAL:CG1	10:J:95:PHE:HZ	1.77	0.96
8:H:51:SER:OG	18:R:63:ASN:O	1.84	0.96
1:A:21:LEU:O	1:A:25:ASP:N	1.99	0.96
1:A:1012:LYS:CD	1:A:1071:ILE:HD12	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1051:GLN:OE1	1:A:1096:TYR:OH	1.79	0.96
1:A:1522:GLU:CG	1:A:1523:PRO:HD3	1.94	0.96
1:A:3307:GLU:CD	17:Q:56:SER:H	1.74	0.96
2:B:581:ASN:ND2	5:E:184:MET:CE	2.28	0.96
2:B:736:LEU:HA	2:B:855:SER:HB2	1.47	0.96
2:B:861:ASP:CG	3:C:171:ARG:CD	2.38	0.96
2:B:963:PHE:CE2	3:C:51:ILE:CG2	2.49	0.96
3:C:2742:LYS:CE	3:C:2785:VAL:HG21	1.95	0.96
5:E:117:GLU:CG	6:F:17:LEU:CD1	2.09	0.96
2:B:798:ASN:HB3	2:B:874:ALA:HB1	0.99	0.96
2:B:1458:PHE:CD1	2:B:1560:MET:HE3	1.99	0.96
3:C:2018:GLN:HE21	19:C:4305:ADP:C2'	1.78	0.96
2:B:673:PHE:CZ	2:B:677:LEU:HB3	2.00	0.96
2:B:3136:TYR:O	2:B:3433:TRP:CZ3	2.19	0.96
2:B:3164:VAL:HG11	2:B:3409:ALA:HB2	1.45	0.96
4:D:208:TYR:CE1	9:I:100:ASN:HB2	1.99	0.96
1:A:40:LEU:CA	1:A:41:LEU:N	2.27	0.95
2:B:1468:ALA:O	2:B:1469:SER:OG	1.82	0.95
3:C:36:PHE:HB3	3:C:57:VAL:HG22	1.47	0.95
6:F:84:SER:HB3	6:F:106:ALA:HB2	1.47	0.95
1:A:597:VAL:HG13	4:D:502:ALA:HB3	1.47	0.95
1:A:1143:ARG:HE	13:M:67:HIS:CE1	1.83	0.95
1:A:3248:LEU:CD1	17:Q:80:SER:CA	2.43	0.95
1:A:3248:LEU:HB3	17:Q:81:ARG:H	1.29	0.95
2:B:579:PHE:CZ	5:E:369:PRO:HG2	2.01	0.95
2:B:1234:GLU:HB2	2:B:1308:LEU:CB	1.94	0.95
3:C:2726:THR:CB	3:C:2729:LEU:HD12	1.96	0.95
5:E:384:LEU:HG	5:E:417:TRP:NE1	1.81	0.95
10:J:48:LEU:HD11	10:J:100:ILE:CD1	1.91	0.95
1:A:600:MET:HE1	4:D:458:CYS:HG	1.27	0.95
1:A:697:ARG:HH11	4:D:458:CYS:CB	1.64	0.95
2:B:433:ILE:HA	2:B:463:PHE:CZ	2.01	0.95
2:B:3302:ILE:HG22	2:B:3303:GLU:N	1.80	0.95
3:C:2701:ILE:HD11	3:C:2704:LYS:CG	1.96	0.95
1:A:755:HIS:HE1	1:A:869:TYR:CD2	1.68	0.95
1:A:3106:LYS:HG3	1:A:3443:LEU:HD22	1.45	0.95
2:B:1456:PHE:CE1	2:B:1467:PHE:HE1	1.84	0.95
2:B:3261:ILE:O	2:B:3306:ILE:CG2	2.13	0.95
4:D:199:ILE:HG21	9:I:104:ALA:CB	1.96	0.95
4:D:261:TYR:CE1	5:E:126:ILE:CD1	2.49	0.95
4:D:567:GLN:CB	4:D:578:LYS:HD2	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:909:MET:HE1	1:A:955:ILE:HD11	1.45	0.95
1:A:3249:ILE:HG13	1:A:3273:TYR:CA	1.90	0.95
2:B:1531:ILE:CD1	2:B:1595:LEU:HD11	1.96	0.95
2:B:3118:TYR:CD2	2:B:3455:SER:OG	2.18	0.95
4:D:518:SER:OG	4:D:528:TRP:HZ3	1.47	0.95
5:E:50:LEU:HD13	12:L:95:PHE:CB	1.97	0.95
14:N:85:ILE:HG22	14:N:98:ILE:CD1	1.96	0.95
14:N:85:ILE:HG22	14:N:98:ILE:HD12	1.46	0.95
1:A:688:PHE:HE1	1:A:693:MET:HG2	1.28	0.95
2:B:891:ILE:HD11	2:B:897:SER:O	1.66	0.95
17:Q:43:GLY:CA	17:Q:67:SER:CB	2.45	0.95
1:A:598:ARG:N	4:D:460:LEU:CD1	2.30	0.95
1:A:3230:LEU:O	1:A:3233:ILE:CG2	2.15	0.95
2:B:1456:PHE:CD2	2:B:1569:VAL:CG1	2.48	0.95
3:C:159:TYR:HD1	3:C:179:VAL:CG2	1.80	0.95
4:D:177:ASN:CG	13:M:60:ASN:HB2	1.91	0.95
5:E:26:ARG:NH2	14:N:96:SER:O	2.00	0.95
2:B:419:PHE:HB2	2:B:480:ILE:HD12	1.49	0.95
2:B:729:LEU:HD23	2:B:734:GLU:HG2	1.46	0.95
3:C:2592:LYS:HD2	3:C:2928:VAL:CG2	1.97	0.95
8:H:65:PHE:CB	9:I:80:GLY:HA3	1.96	0.95
10:J:75:TYR:CD1	11:K:92:LYS:NZ	2.34	0.95
1:A:1417:GLU:HA	1:A:1420:THR:OG1	1.67	0.95
1:A:3248:LEU:HD13	17:Q:80:SER:CB	1.92	0.95
2:B:1102:LEU:H	2:B:1163:ARG:HH22	1.13	0.95
3:C:2739:GLU:H	3:C:2746:PRO:HB3	1.27	0.95
6:F:11:LEU:HD22	6:F:23:TYR:CD1	1.99	0.95
1:A:15:THR:CA	2:B:19:SER:HA	1.96	0.95
1:A:697:ARG:NH1	4:D:458:CYS:HB2	1.82	0.95
1:A:785:HIS:CE1	4:D:391:ARG:CZ	2.49	0.95
1:A:1500:THR:HG23	1:A:1566:GLN:HE22	1.31	0.95
2:B:5:SER:CB	2:B:47:ASP:CB	2.44	0.95
2:B:555:LEU:HD21	2:B:625:LEU:CD2	1.69	0.95
4:D:115:TYR:CZ	14:N:78:HIS:CD2	2.54	0.95
4:D:297:LYS:HZ3	4:D:328:LEU:CB	1.79	0.95
4:D:398:PRO:HD2	4:D:419:SER:HB2	0.96	0.95
4:D:512:HIS:CD2	4:D:513:PRO:CD	2.49	0.95
9:I:81:GLU:OE1	9:I:102:ASN:ND2	2.00	0.95
1:A:598:ARG:HG3	4:D:504:TYR:CE1	2.01	0.94
1:A:1513:LYS:HE2	1:A:1578:ASN:HD21	1.16	0.94
1:A:3223:LEU:HD11	1:A:3332:ILE:CG1	1.54	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3251:ILE:CD1	17:Q:64:LYS:H	1.80	0.94
2:B:1559:MET:CG	2:B:1577:ARG:NH2	2.29	0.94
1:A:1030:SER:C	1:A:1092:TRP:HH2	1.75	0.94
1:A:3229:PRO:HB2	1:A:3233:ILE:HG21	1.46	0.94
1:A:3257:VAL:HG11	1:A:3266:VAL:HA	1.45	0.94
2:B:794:LEU:CA	2:B:797:PHE:HE2	1.78	0.94
4:D:107:VAL:HA	15:O:98:ALA:HA	1.45	0.94
1:A:1151:MET:CE	4:D:176:ILE:HA	1.98	0.94
1:A:1632:ASP:CB	1:A:1892:PHE:CD1	2.50	0.94
2:B:682:LYS:HE2	5:E:186:PHE:CE1	2.00	0.94
2:B:2191:THR:OG1	20:B:5403:ATP:O1A	1.84	0.94
2:B:2304:GLU:OE1	20:B:5403:ATP:O3G	1.82	0.94
4:D:241:PHE:HZ	7:G:78:ILE:HD12	1.32	0.94
12:L:9:GLY:O	12:L:13:GLU:HG3	1.67	0.94
1:A:850:SER:HB2	5:E:204:ASN:HB3	0.95	0.94
1:A:3222:GLU:CB	1:A:3328:ALA:HB2	1.98	0.94
2:B:555:LEU:HD23	2:B:625:LEU:CG	1.97	0.94
4:D:567:GLN:OE1	4:D:578:LYS:CD	2.15	0.94
1:A:8:LYS:CB	1:A:109:SER:CA	2.45	0.94
1:A:1136:MET:HG3	4:D:166:PHE:CD1	1.99	0.94
1:A:1276:GLN:CG	4:D:153:HIS:CE1	2.51	0.94
2:B:533:ARG:CG	2:B:534:PRO:HD3	1.96	0.94
2:B:583:PRO:HB3	2:B:683:GLU:HG2	1.49	0.94
3:C:175:ASN:HB2	3:C:199:PRO:HG3	1.50	0.94
3:C:2725:ALA:HA	3:C:2728:TYR:CE2	2.02	0.94
4:D:590:LEU:HD23	4:D:604:VAL:HG11	1.48	0.94
1:A:3232:ILE:CG1	1:A:3316:TRP:CE3	2.25	0.94
1:A:3305:LEU:CG	17:Q:80:SER:H	1.79	0.94
1:A:3442:LYS:HB3	1:A:3485:THR:CG2	1.97	0.94
3:C:53:PRO:HG2	3:C:81:PRO:HB2	1.48	0.94
3:C:2746:PRO:HD2	3:C:2747:LYS:H	1.31	0.94
4:D:517:ILE:HD11	4:D:527:ILE:CG2	1.97	0.94
5:E:394:TRP:CE2	5:E:401:PRO:HB3	2.03	0.94
6:F:14:LEU:HD23	6:F:23:TYR:HD2	1.19	0.94
14:N:84:GLN:HB2	15:O:64:VAL:HG21	1.46	0.94
1:A:1417:GLU:C	1:A:1421:GLU:HG3	1.92	0.94
2:B:864:ASN:CA	2:B:947:LEU:CG	2.21	0.94
1:A:737:TYR:HE1	1:A:759:LEU:HD23	0.94	0.94
1:A:857:ARG:NE	5:E:206:ASN:C	2.26	0.94
1:A:1069:TYR:CE1	1:A:1078:THR:HG21	2.02	0.94
1:A:1423:ALA:O	1:A:1427:LEU:HG	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3297:SER:O	1:A:3343:HIS:ND1	2.01	0.94
1:A:3304:GLU:HG2	17:Q:55:LEU:H	1.28	0.94
2:B:436:PHE:CZ	2:B:499:LEU:CD2	2.45	0.94
2:B:659:THR:CG2	2:B:757:TRP:NE1	2.30	0.94
2:B:952:PRO:HG2	3:C:222:PHE:C	1.92	0.94
2:B:957:GLN:NE2	3:C:322:GLU:CD	2.26	0.94
2:B:1381:ALA:HB1	2:B:1431:VAL:HG21	1.50	0.94
2:B:1456:PHE:CE2	2:B:1569:VAL:CG1	2.50	0.94
2:B:3228:GLU:HG3	2:B:3346:PHE:HE1	0.77	0.94
2:B:3231:VAL:HG23	2:B:3342:ASN:HB3	1.50	0.94
3:C:222:PHE:O	3:C:282:ARG:NH1	2.01	0.94
3:C:2800:PRO:CB	3:C:2818:VAL:HG21	1.98	0.94
4:D:111:MET:CE	15:O:90:ILE:HG21	1.93	0.94
5:E:22:ASP:CB	14:N:91:THR:HG23	1.95	0.94
5:E:61:VAL:HG13	10:J:95:PHE:HZ	1.32	0.94
5:E:99:ILE:CG2	6:F:33:LEU:HD11	1.98	0.94
16:P:23:TYR:HA	16:P:31:ILE:CB	1.98	0.94
1:A:597:VAL:CB	4:D:477:GLU:HG2	1.96	0.94
1:A:766:GLY:HA3	1:A:780:TYR:CE1	2.03	0.94
1:A:1069:TYR:CD1	1:A:1078:THR:HG21	2.02	0.94
2:B:3314:ILE:CG1	2:B:3321:PHE:HE2	1.79	0.94
4:D:172:GLU:CA	13:M:64:HIS:HB3	1.91	0.94
4:D:212:ILE:HD11	9:I:19:MET:CE	1.93	0.94
10:J:38:GLU:OE1	15:O:29:PHE:CG	2.21	0.94
1:A:3261:LYS:HG2	1:A:3262:GLU:H	1.33	0.94
2:B:871:ILE:CD1	2:B:944:ILE:HD11	1.98	0.94
2:B:897:SER:HB3	2:B:898:PRO:CD	1.95	0.94
2:B:1531:ILE:CD1	2:B:1618:LEU:HD22	1.98	0.94
7:G:119:PRO:CD	9:I:12:ILE:HD13	1.97	0.94
10:J:25:ARG:O	10:J:99:TYR:N	2.00	0.94
1:A:5:LYS:CB	1:A:48:GLU:CB	2.46	0.93
1:A:590:GLN:HB2	1:A:609:TRP:HZ2	1.30	0.93
2:B:861:ASP:O	2:B:864:ASN:OD1	1.87	0.93
2:B:3300:GLU:OE2	2:B:3354:LYS:HD2	1.64	0.93
5:E:310:LEU:CD1	5:E:358:ARG:CZ	2.46	0.93
1:A:700:LYS:HG2	4:D:455:GLY:CA	1.98	0.93
2:B:1458:PHE:HB3	2:B:1465:LYS:HB3	1.50	0.93
3:C:132:GLU:CD	3:C:133:PRO:CD	2.38	0.93
3:C:2592:LYS:HB3	3:C:2924:MET:SD	2.08	0.93
8:H:43:THR:CA	9:I:86:ASP:OD2	2.15	0.93
8:H:65:PHE:CA	9:I:80:GLY:HA3	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ARG:HG3	4:D:504:TYR:HD1	1.21	0.93
1:A:3121:LEU:CG	1:A:3429:TRP:HB3	1.97	0.93
2:B:864:ASN:HB3	2:B:947:LEU:HB2	1.50	0.93
4:D:564:ASP:CG	4:D:583:LYS:HE2	1.92	0.93
7:G:118:ASP:OD1	9:I:12:ILE:HD13	1.67	0.93
1:A:3249:ILE:HD12	17:Q:106:PHE:HZ	1.32	0.93
2:B:59:THR:O	2:B:81:ILE:HA	1.69	0.93
8:H:56:THR:HG23	9:I:88:THR:OG1	1.67	0.93
8:H:64:ASN:O	9:I:81:GLU:N	2.00	0.93
1:A:3245:LYS:CB	17:Q:124:ILE:CA	2.46	0.93
2:B:10:PRO:C	2:B:25:GLN:HA	1.93	0.93
2:B:1456:PHE:HZ	2:B:1563:VAL:CG1	1.48	0.93
2:B:3210:SER:HB2	2:B:3364:ASN:OD1	1.67	0.93
3:C:2581:LEU:HD12	3:C:2936:SER:CB	1.98	0.93
3:C:2585:PHE:HE1	3:C:2929:LEU:CA	1.82	0.93
4:D:174:GLN:CA	13:M:62:GLY:CA	2.28	0.93
4:D:184:GLY:CA	11:K:69:TYR:CD1	2.51	0.93
4:D:212:ILE:HD13	9:I:19:MET:CE	1.90	0.93
5:E:53:ILE:HD13	12:L:81:ASN:ND2	1.67	0.93
10:J:95:PHE:CE2	10:J:106:LEU:HD11	2.02	0.93
1:A:505:THR:O	1:A:509:LYS:CB	2.16	0.93
2:B:864:ASN:HB2	2:B:947:LEU:HD21	1.50	0.93
2:B:900:PHE:CE1	2:B:933:TRP:CH2	2.56	0.93
4:D:367:LEU:CG	4:D:371:THR:HG1	1.77	0.93
8:H:64:ASN:CB	9:I:81:GLU:HB3	1.98	0.93
1:A:1525:PHE:HB2	1:A:1541:PHE:CE2	2.03	0.93
5:E:56:LEU:HA	10:J:91:ASN:HA	1.47	0.93
1:A:1444:GLN:CG	1:A:1560:LYS:HA	1.99	0.93
1:A:3317:PHE:HD1	1:A:3333:LEU:HD22	1.34	0.93
2:B:637:GLU:O	2:B:641:ILE:HG22	1.67	0.93
3:C:2585:PHE:CE1	3:C:2929:LEU:CA	2.52	0.93
3:C:2725:ALA:HA	3:C:2728:TYR:HE2	1.33	0.93
4:D:80:PRO:CG	15:O:103:TRP:NE1	2.31	0.93
4:D:172:GLU:CD	12:L:55:LEU:HD12	1.92	0.93
4:D:543:MET:SD	4:D:563:MET:HG3	2.09	0.93
1:A:3245:LYS:HZ2	17:Q:148:LEU:CB	1.58	0.93
1:A:3267:LEU:HA	17:Q:35:ILE:O	1.67	0.93
3:C:143:PRO:CD	3:C:187:TRP:CD1	2.52	0.93
3:C:2701:ILE:CG1	3:C:2704:LYS:HD2	1.98	0.93
4:D:90:ASP:OD1	13:M:32:LYS:CA	2.15	0.93
5:E:48:ILE:HG12	12:L:88:PHE:CZ	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3117:PHE:CD2	1:A:3429:TRP:CZ3	2.57	0.93
1:A:3270:LYS:NZ	17:Q:60:ASN:CB	2.32	0.93
2:B:789:LYS:CG	2:B:839:LEU:HD11	1.98	0.93
4:D:207:ALA:C	9:I:24:ILE:HD12	1.94	0.93
4:D:297:LYS:HZ2	4:D:328:LEU:HB2	1.20	0.93
10:J:26:VAL:CG2	10:J:98:PHE:HB3	1.98	0.93
1:A:596:LEU:CD2	1:A:602:PRO:HA	1.99	0.92
1:A:913:VAL:C	1:A:1073:ALA:CB	2.42	0.92
1:A:1020:PHE:HZ	1:A:1069:TYR:CD1	1.86	0.92
1:A:3246:ALA:HB2	17:Q:150:TYR:O	1.69	0.92
1:A:3273:TYR:OH	1:A:3277:GLY:HA3	1.13	0.92
1:A:3307:GLU:OE2	17:Q:55:LEU:HA	1.69	0.92
2:B:409:SER:HB3	2:B:413:PHE:CE1	2.03	0.92
1:A:1020:PHE:HZ	1:A:1069:TYR:CZ	1.81	0.92
1:A:1101:HIS:HA	1:A:1163:LEU:HD11	1.48	0.92
1:A:2500:THR:HG1	21:A:4705:MG:MG	0.64	0.92
1:A:3269:LEU:HD21	1:A:3312:GLN:OE1	1.69	0.92
3:C:2589:LEU:HB2	3:C:2928:VAL:HG11	1.50	0.92
3:C:2639:ASP:CB	3:C:2643:GLU:HG3	1.99	0.92
4:D:207:ALA:HB3	9:I:24:ILE:HD13	1.50	0.92
7:G:119:PRO:CG	9:I:12:ILE:HG21	1.97	0.92
10:J:36:ILE:HG12	10:J:72:PHE:HE1	1.11	0.92
3:C:2593:ARG:NH2	3:C:2597:GLU:CD	2.28	0.92
3:C:2892:ARG:HD3	3:C:3184:LEU:HB3	1.51	0.92
9:I:77:CYS:HB2	9:I:107:ILE:HG22	1.50	0.92
16:P:15:SER:C	16:P:16:GLU:CA	2.42	0.92
1:A:598:ARG:HH11	4:D:504:TYR:CB	1.72	0.92
1:A:1276:GLN:HE22	4:D:153:HIS:HA	1.34	0.92
1:A:1458:MET:HE1	1:A:1548:TRP:CD1	2.04	0.92
1:A:3236:ILE:HG23	1:A:3333:LEU:CD2	1.96	0.92
2:B:501:ARG:HH21	4:D:491:GLN:HG3	1.33	0.92
5:E:100:GLU:HB3	5:E:105:PHE:CE2	2.04	0.92
6:F:11:LEU:HD22	6:F:23:TYR:HE1	1.19	0.92
10:J:32:CYS:CB	10:J:96:ILE:CG1	2.47	0.92
13:M:7:VAL:HG12	13:M:75:PHE:HB3	1.50	0.92
1:A:3235:TYR:CZ	1:A:3269:LEU:HD12	1.96	0.92
2:B:528:GLU:OE1	5:E:526:GLN:NE2	2.01	0.92
2:B:2333:PRO:HB2	20:B:5403:ATP:C2	2.05	0.92
3:C:2581:LEU:HD12	3:C:2936:SER:OG	1.69	0.92
3:C:2723:PHE:CE1	3:C:2749:VAL:HG13	2.04	0.92
5:E:20:PHE:CZ	15:O:80:LYS:HG2	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:43:ARG:O	12:L:90:ALA:HB2	1.70	0.92
1:A:599:ASN:ND2	4:D:398:PRO:HG2	1.83	0.92
2:B:2333:PRO:HB2	20:B:5403:ATP:C6	2.04	0.92
9:I:19:MET:HB2	9:I:22:LYS:HG2	1.52	0.92
1:A:598:ARG:C	4:D:460:LEU:CD2	2.36	0.92
1:A:785:HIS:NE2	4:D:391:ARG:NE	2.17	0.92
2:B:957:GLN:NE2	3:C:322:GLU:OE1	2.02	0.92
3:C:2734:PHE:HZ	3:C:2767:LYS:HD2	1.28	0.92
5:E:99:ILE:HD11	6:F:31:ILE:HD11	1.48	0.92
5:E:384:LEU:HD12	5:E:384:LEU:O	1.70	0.92
1:A:704:ARG:HH12	4:D:456:LEU:CA	1.77	0.92
1:A:1126:VAL:HB	1:A:1201:TYR:HH	1.19	0.92
2:B:952:PRO:CG	3:C:223:THR:N	1.84	0.92
3:C:2735:ASN:OD1	3:C:2736:GLU:N	2.02	0.92
3:C:2740:ILE:HD12	3:C:2744:LYS:HD3	1.52	0.92
5:E:61:VAL:HG13	10:J:95:PHE:CZ	2.04	0.92
8:H:60:ILE:HG12	9:I:85:TYR:HB3	1.51	0.92
10:J:26:VAL:HG23	10:J:98:PHE:CA	2.00	0.92
14:N:66:LYS:HB2	14:N:115:MET:HB2	1.52	0.92
1:A:3293:PHE:HE1	1:A:3335:TRP:CZ2	1.87	0.92
1:A:3443:LEU:HD13	1:A:3493:PHE:CZ	2.04	0.92
2:B:1467:PHE:HZ	2:B:1563:VAL:HG11	1.34	0.92
8:H:67:SER:CA	9:I:78:ILE:HG22	1.99	0.92
1:A:3305:LEU:CA	17:Q:78:SER:O	1.93	0.92
2:B:1237:ARG:HD3	2:B:1260:ALA:HA	1.51	0.92
2:B:3139:GLY:CA	2:B:3433:TRP:HH2	1.68	0.92
3:C:33:HIS:HB2	3:C:60:LEU:HB2	1.52	0.92
4:D:248:MET:HE2	7:G:147:VAL:CG2	2.00	0.92
9:I:81:GLU:OE2	9:I:102:ASN:HB2	1.66	0.92
1:A:156:VAL:N	2:B:168:ILE:C	2.09	0.91
1:A:970:TYR:HA	1:A:983:ALA:O	1.68	0.91
1:A:972:TRP:CZ3	1:A:985:PHE:CE1	2.57	0.91
1:A:1147:ALA:HB1	4:D:173:CYS:HA	1.52	0.91
1:A:1511:TRP:HA	1:A:1574:LEU:HD13	1.52	0.91
1:A:3308:PRO:HG3	17:Q:57:LEU:HA	1.47	0.91
2:B:736:LEU:O	2:B:855:SER:OG	1.88	0.91
3:C:136:ALA:HB1	3:C:168:ASN:OD1	1.69	0.91
1:A:737:TYR:CE1	1:A:759:LEU:CD2	2.51	0.91
1:A:760:ASP:O	1:A:764:ARG:HG2	1.70	0.91
1:A:804:ASN:CB	5:E:150:LEU:HD23	1.96	0.91
3:C:143:PRO:HG3	3:C:187:TRP:CE2	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:105:THR:O	18:R:107:SER:N	2.02	0.91
1:A:872:ASP:O	1:A:875:VAL:HG12	1.68	0.91
2:B:655:LYS:HZ3	2:B:701:ILE:CG2	1.84	0.91
2:B:1474:MET:HE2	2:B:1515:VAL:CG1	1.99	0.91
3:C:2742:LYS:HE3	3:C:2785:VAL:HG21	1.52	0.91
4:D:569:TYR:HH	4:D:578:LYS:HD3	1.17	0.91
10:J:32:CYS:HB2	10:J:96:ILE:CG1	1.99	0.91
12:L:77:ILE:HG23	13:M:63:SER:HB3	1.48	0.91
12:L:86:LEU:HD12	13:M:54:ASN:HB3	1.49	0.91
1:A:3106:LYS:HG2	1:A:3443:LEU:CD2	1.91	0.91
1:A:3110:LEU:HD12	1:A:3443:LEU:HD23	1.53	0.91
2:B:1528:LEU:HD21	2:B:1591:CYS:CB	2.00	0.91
2:B:3264:ASN:CG	2:B:3306:ILE:HD11	1.95	0.91
10:J:48:LEU:CD1	10:J:100:ILE:HD11	1.95	0.91
1:A:1151:MET:CE	4:D:176:ILE:CA	2.47	0.91
1:A:1444:GLN:HE21	1:A:1560:LYS:HG2	1.33	0.91
2:B:963:PHE:HZ	3:C:39:LEU:HA	1.35	0.91
3:C:261:ILE:HG21	3:C:385:ASP:CB	2.01	0.91
3:C:760:THR:CB	3:C:827:ILE:CD1	2.49	0.91
3:C:2726:THR:HA	3:C:2729:LEU:HD11	1.51	0.91
10:J:26:VAL:HG23	10:J:98:PHE:HB3	1.51	0.91
1:A:670:LEU:CA	1:A:692:ILE:HD11	2.00	0.91
1:A:1146:GLN:NE2	13:M:9:ALA:CA	2.34	0.91
1:A:1638:THR:CB	1:A:1655:GLN:CG	2.48	0.91
1:A:1487:VAL:CG2	1:A:1490:PHE:CE1	2.51	0.91
2:B:59:THR:CB	2:B:82:ASP:O	2.19	0.91
2:B:861:ASP:HA	2:B:864:ASN:ND2	1.84	0.91
2:B:966:LYS:CB	3:C:343:ASN:O	2.18	0.91
2:B:2191:THR:OG1	20:B:5403:ATP:PA	2.28	0.91
3:C:2734:PHE:CZ	3:C:2767:LYS:CD	2.50	0.91
4:D:172:GLU:CA	13:M:64:HIS:HB2	1.97	0.91
4:D:248:MET:CE	7:G:147:VAL:HB	2.01	0.91
4:D:266:TYR:OH	5:E:121:TYR:CB	2.19	0.91
4:D:266:TYR:HH	5:E:121:TYR:CB	1.83	0.91
5:E:259:ASN:HD21	5:E:299:GLY:HA3	1.27	0.91
8:H:57:TRP:HZ3	8:H:88:LEU:HD13	1.35	0.91
1:A:670:LEU:CD2	1:A:772:TRP:CD1	2.54	0.91
1:A:1012:LYS:CB	1:A:1071:ILE:HD13	1.98	0.91
1:A:1146:GLN:HG2	13:M:9:ALA:HB3	1.53	0.91
2:B:956:LEU:CD1	2:B:959:ILE:HD11	2.01	0.91
2:B:3261:ILE:HG22	2:B:3306:ILE:HG23	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:172:GLU:HG3	12:L:51:LYS:CE	2.01	0.91
8:H:65:PHE:CA	9:I:80:GLY:CA	2.48	0.91
1:A:3242:VAL:HG22	17:Q:80:SER:CB	2.01	0.91
2:B:575:ASN:N	5:E:481:GLN:NE2	2.17	0.91
2:B:3162:VAL:O	2:B:3166:LYS:HG3	1.71	0.91
3:C:165:GLY:C	3:C:174:PHE:CE2	2.48	0.91
6:F:51:LEU:HD21	7:G:116:ASP:CB	2.01	0.91
9:I:93:THR:HB	9:I:109:LYS:HB3	1.53	0.91
1:A:723:PHE:HD1	1:A:772:TRP:CZ2	1.88	0.91
1:A:805:ARG:NH2	5:E:152:LEU:CG	2.31	0.91
1:A:1030:SER:C	1:A:1092:TRP:CH2	2.49	0.91
1:A:3252:GLN:HG3	17:Q:38:ILE:O	1.54	0.91
1:A:3257:VAL:CG1	1:A:3266:VAL:CA	2.46	0.91
2:B:575:ASN:H	5:E:481:GLN:HE22	1.15	0.91
2:B:1395:LEU:CA	2:B:1430:ILE:HD13	2.01	0.91
3:C:2708:GLN:CD	3:C:2813:ILE:HD11	1.96	0.91
1:A:854:GLU:CD	5:E:203:LEU:O	2.09	0.90
2:B:963:PHE:O	3:C:345:TRP:HZ3	1.37	0.90
3:C:214:LEU:CD1	3:C:232:TYR:O	2.18	0.90
4:D:172:GLU:OE1	12:L:55:LEU:CD1	2.16	0.90
4:D:208:TYR:HE1	9:I:100:ASN:HB3	1.09	0.90
14:N:25:PHE:HZ	14:N:103:ILE:CD1	1.82	0.90
1:A:3110:LEU:HD11	1:A:3443:LEU:CD2	2.01	0.90
1:A:3305:LEU:CD1	17:Q:80:SER:N	2.34	0.90
2:B:952:PRO:HD3	3:C:223:THR:HG22	1.53	0.90
2:B:3251:GLY:HA3	2:B:3329:GLN:OE1	1.71	0.90
4:D:174:GLN:OE1	12:L:49:LEU:CD1	2.19	0.90
5:E:22:ASP:HB3	14:N:91:THR:CG2	1.99	0.90
12:L:76:CYS:HB2	12:L:107:LEU:HD13	1.53	0.90
1:A:604:ALA:N	1:A:698:GLU:OE1	2.03	0.90
1:A:614:PHE:CE1	1:A:644:LEU:HD22	2.05	0.90
1:A:1642:ALA:CB	1:A:1652:GLN:HB2	2.00	0.90
1:A:3236:ILE:HA	1:A:3333:LEU:HD21	1.53	0.90
2:B:725:ILE:HG21	2:B:776:LEU:CG	2.01	0.90
2:B:1559:MET:HE2	2:B:1577:ARG:NH2	1.85	0.90
4:D:252:VAL:HG13	7:G:149:GLN:HE22	1.35	0.90
5:E:112:LEU:HD22	6:F:97:MET:SD	2.11	0.90
1:A:332:PRO:HA	1:A:380:ARG:CB	2.01	0.90
1:A:722:LYS:O	1:A:726:TYR:HD2	1.54	0.90
1:A:801:ILE:HA	5:E:149:THR:CB	1.98	0.90
1:A:3303:ILE:CD1	1:A:3340:TYR:HE2	1.82	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3308:PRO:CG	17:Q:57:LEU:C	2.43	0.90
2:B:89:ILE:H	2:B:100:THR:CB	1.84	0.90
2:B:966:LYS:CB	3:C:345:TRP:CE3	2.54	0.90
3:C:268:ILE:HD13	3:C:301:TRP:CZ2	2.07	0.90
3:C:2743:ASN:HD22	3:C:2785:VAL:HG12	0.74	0.90
5:E:46:ASN:CG	12:L:88:PHE:HE1	1.71	0.90
1:A:1012:LYS:CB	1:A:1071:ILE:HG21	2.00	0.90
1:A:1424:ASP:O	1:A:1428:LYS:HG3	1.72	0.90
1:A:3236:ILE:HG23	1:A:3333:LEU:HA	1.50	0.90
2:B:467:VAL:O	2:B:471:THR:CA	2.20	0.90
2:B:969:LEU:HD11	3:C:343:ASN:HD22	1.37	0.90
2:B:3301:ASN:CB	2:B:3351:LYS:HZ3	1.84	0.90
2:B:3301:ASN:HD22	2:B:3351:LYS:HZ2	1.06	0.90
3:C:2636:LYS:CA	3:C:2643:GLU:OE2	2.19	0.90
3:C:2745:LYS:CE	3:C:2749:VAL:HG21	2.00	0.90
4:D:75:LEU:HD12	15:O:102:LEU:HD12	1.52	0.90
6:F:56:TRP:CH2	6:F:74:ILE:HG13	2.06	0.90
10:J:77:HIS:HE2	11:K:92:LYS:HG2	1.35	0.90
14:N:72:ILE:HG21	15:O:97:ILE:CD1	1.84	0.90
1:A:597:VAL:CG1	4:D:477:GLU:HA	2.02	0.90
1:A:1540:GLN:O	1:A:1544:ILE:CG1	2.18	0.90
1:A:3249:ILE:HD11	1:A:3274:ASP:H	1.36	0.90
2:B:81:ILE:O	2:B:110:VAL:CA	2.18	0.90
2:B:659:THR:CB	2:B:757:TRP:HE1	1.85	0.90
6:F:21:ASN:HD21	6:F:102:LEU:HD11	1.36	0.90
10:J:34:ASP:HB2	15:O:31:PRO:HG3	0.91	0.90
14:N:72:ILE:HG12	15:O:97:ILE:HG23	1.51	0.90
1:A:3194:ALA:CB	1:A:3356:VAL:HG22	2.01	0.90
1:A:3251:ILE:CD1	17:Q:64:LYS:N	2.30	0.90
5:E:48:ILE:HG13	12:L:23:PHE:CE2	2.07	0.90
5:E:61:VAL:HG21	10:J:106:LEU:HD22	1.51	0.90
6:F:19:GLY:O	6:F:101:GLN:HB2	1.72	0.90
10:J:48:LEU:CD1	10:J:100:ILE:HD12	1.97	0.90
15:O:45:ARG:CB	15:O:63:LEU:CD1	2.49	0.90
1:A:789:LYS:O	5:E:433:TRP:CH2	2.25	0.90
1:A:1157:GLN:HG2	1:A:1180:ARG:HH22	1.34	0.90
2:B:532:THR:N	2:B:536:ILE:HD12	1.85	0.90
10:J:32:CYS:SG	10:J:96:ILE:CD1	2.60	0.90
14:N:72:ILE:CB	15:O:97:ILE:HG12	2.02	0.90
1:A:580:LEU:HD21	1:A:640:SER:HA	1.52	0.90
1:A:600:MET:CE	1:A:697:ARG:NH1	2.33	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1140:GLU:HA	4:D:169:ASN:OD1	1.72	0.90
1:A:1638:THR:HB	1:A:1655:GLN:HG2	1.54	0.90
1:A:3245:LYS:HB3	17:Q:124:ILE:N	1.72	0.90
2:B:59:THR:N	2:B:82:ASP:O	2.04	0.90
2:B:518:TYR:CD2	5:E:404:ARG:NH1	2.36	0.90
2:B:3162:VAL:CG1	2:B:3166:LYS:HE3	2.02	0.90
5:E:50:LEU:HD13	12:L:95:PHE:CG	2.07	0.90
5:E:58:GLU:CB	10:J:89:VAL:HA	2.01	0.90
7:G:120:THR:HG22	9:I:12:ILE:CG2	1.97	0.90
1:A:1027:CYS:SG	1:A:1027:CYS:O	2.29	0.90
1:A:1140:GLU:OE2	4:D:165:LYS:HD2	1.71	0.90
1:A:1151:MET:SD	4:D:176:ILE:CG1	2.59	0.90
1:A:3242:VAL:HA	1:A:3248:LEU:HD11	1.53	0.90
14:N:70:THR:HG22	15:O:99:SER:HB2	1.50	0.90
17:Q:43:GLY:HA3	17:Q:67:SER:CB	2.02	0.90
2:B:888:PRO:O	2:B:891:ILE:HG22	1.72	0.89
2:B:966:LYS:CA	3:C:344:ASN:HA	2.00	0.89
3:C:2637:GLU:C	3:C:2640:ALA:HB3	1.96	0.89
3:C:2721:GLU:CG	3:C:2803:MET:HE2	2.02	0.89
4:D:585:VAL:CG1	4:D:588:PRO:CD	2.50	0.89
5:E:110:LYS:HG2	6:F:10:GLN:CD	1.96	0.89
5:E:239:LEU:CD2	5:E:257:VAL:HG22	2.02	0.89
8:H:60:ILE:CG1	9:I:85:TYR:CB	2.50	0.89
1:A:160:GLU:CB	2:B:168:ILE:N	2.34	0.89
1:A:704:ARG:NH1	4:D:457:ALA:N	2.08	0.89
1:A:704:ARG:NH2	4:D:455:GLY:O	2.05	0.89
2:B:789:LYS:HG2	2:B:839:LEU:CD1	2.00	0.89
2:B:794:LEU:O	2:B:797:PHE:CE2	2.25	0.89
2:B:858:ASN:ND2	3:C:169:TYR:CE1	2.40	0.89
2:B:3342:ASN:O	2:B:3346:PHE:HB3	1.70	0.89
3:C:2701:ILE:HD11	3:C:2704:LYS:HD2	0.90	0.89
3:C:2719:VAL:CG1	3:C:2720:PRO:HD3	2.02	0.89
4:D:172:GLU:N	13:M:64:HIS:HB2	1.87	0.89
5:E:48:ILE:HG21	12:L:23:PHE:CD2	2.05	0.89
2:B:1109:THR:O	2:B:1113:LEU:CG	2.15	0.89
2:B:3230:ALA:HB1	2:B:3342:ASN:CG	1.67	0.89
3:C:12:GLN:NE2	3:C:349:LEU:CB	2.35	0.89
4:D:70:MET:HE2	5:E:13:GLU:CB	2.02	0.89
4:D:285:PRO:CG	4:D:584:ILE:HG22	2.03	0.89
9:I:78:ILE:CD1	9:I:106:LEU:HB3	2.02	0.89
1:A:806:ILE:HD13	1:A:890:TYR:CE2	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1116:PHE:HA	2:B:1119:LYS:NZ	1.87	0.89
5:E:59:HIS:NE2	10:J:31:GLU:OE1	2.05	0.89
6:F:81:THR:HG22	7:G:114:VAL:HG21	1.51	0.89
8:H:76:TYR:CE1	8:H:87:LEU:CD1	2.55	0.89
14:N:72:ILE:HG23	15:O:97:ILE:HG13	1.54	0.89
2:B:900:PHE:HE1	2:B:933:TRP:HH2	1.18	0.89
2:B:946:ARG:N	2:B:955:PHE:CE2	2.40	0.89
2:B:1485:MET:HA	2:B:1505:ARG:HD2	1.54	0.89
4:D:297:LYS:HZ3	4:D:328:LEU:HB2	1.09	0.89
4:D:517:ILE:CG1	4:D:550:TRP:CE2	2.53	0.89
5:E:23:THR:HG22	14:N:88:TYR:HA	1.53	0.89
1:A:598:ARG:H	4:D:460:LEU:CD1	1.84	0.89
1:A:1148:GLU:OE2	12:L:51:LYS:CE	2.21	0.89
2:B:963:PHE:O	3:C:345:TRP:CZ3	2.26	0.89
3:C:2740:ILE:CB	3:C:2744:LYS:CB	2.46	0.89
4:D:398:PRO:HD3	4:D:419:SER:CB	2.03	0.89
1:A:600:MET:HE2	1:A:697:ARG:NH1	1.87	0.89
1:A:3269:LEU:CD2	17:Q:33:PHE:C	2.45	0.89
3:C:24:HIS:NE2	3:C:325:SER:CB	2.35	0.89
11:K:55:GLY:HA3	13:M:79:GLU:HG3	1.55	0.89
16:P:16:GLU:CB	16:P:74:LEU:HA	2.01	0.89
1:A:763:LEU:HD13	1:A:763:LEU:C	1.97	0.89
1:A:1445:PHE:HD2	1:A:1564:CYS:HG	1.07	0.89
1:A:3110:LEU:CD1	1:A:3443:LEU:CD2	2.51	0.89
2:B:1127:ASN:CB	2:B:1128:PRO:HD2	2.01	0.89
2:B:1330:TRP:O	2:B:1409:SER:O	1.90	0.89
2:B:1420:LEU:O	2:B:1424:GLU:HG3	1.73	0.89
2:B:3118:TYR:HE2	2:B:3452:LEU:N	1.71	0.89
3:C:12:GLN:HE21	3:C:349:LEU:HB2	1.38	0.89
3:C:354:VAL:CG2	3:C:357:ILE:HG13	2.03	0.89
4:D:367:LEU:CD2	4:D:371:THR:OG1	2.20	0.89
4:D:398:PRO:HD3	4:D:419:SER:HB3	1.54	0.89
4:D:567:GLN:CD	4:D:578:LYS:HE3	1.97	0.89
1:A:907:ASN:O	1:A:911:TYR:CD2	2.25	0.89
1:A:1151:MET:CE	4:D:176:ILE:CG1	2.51	0.89
1:A:1504:VAL:CG2	1:A:1565:CYS:SG	2.61	0.89
1:A:3249:ILE:HD11	1:A:3274:ASP:N	1.88	0.89
1:A:3300:GLU:CA	17:Q:76:ILE:CB	2.51	0.89
1:A:3311:ASN:ND2	17:Q:31:LEU:HA	1.87	0.89
2:B:87:LYS:CB	2:B:104:VAL:H	1.86	0.89
3:C:2636:LYS:HA	3:C:2643:GLU:OE2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:92:TYR:CG	13:M:29:LYS:CB	2.56	0.89
4:D:397:ASP:HB3	4:D:398:PRO:CD	2.02	0.89
5:E:60:SER:HB3	10:J:87:GLN:HG3	1.54	0.89
8:H:62:GLY:CA	9:I:83:TYR:HA	2.02	0.89
11:K:18:MET:HE2	11:K:21:MET:HE3	1.55	0.89
1:A:732:TYR:HB2	4:D:390:VAL:HB	1.53	0.89
1:A:871:LEU:HD22	1:A:872:ASP:N	1.88	0.89
1:A:3236:ILE:HG22	1:A:3332:ILE:HG22	1.55	0.89
2:B:1374:THR:O	2:B:1424:GLU:OE2	1.91	0.89
4:D:109:PHE:CD2	15:O:121:TYR:CE2	2.61	0.89
4:D:207:ALA:C	9:I:24:ILE:CD1	2.46	0.89
4:D:528:TRP:CE2	4:D:535:GLN:HB3	2.08	0.89
6:F:51:LEU:HD21	7:G:116:ASP:HB2	1.54	0.89
1:A:95:PHE:O	1:A:124:THR:CB	2.21	0.88
1:A:857:ARG:CZ	5:E:207:SER:HA	2.03	0.88
1:A:1433:LEU:HD11	1:A:1490:PHE:CE1	2.08	0.88
2:B:903:ARG:HB2	2:B:914:ASP:OD2	1.72	0.88
3:C:180:LEU:HD22	3:C:187:TRP:CZ3	2.08	0.88
4:D:68:GLU:HG3	5:E:12:LYS:CA	2.03	0.88
1:A:565:LEU:O	1:A:569:TYR:HD2	1.56	0.88
1:A:797:ASN:N	5:E:450:HIS:NE2	2.21	0.88
1:A:800:ASP:HB2	5:E:147:SER:O	1.72	0.88
1:A:1444:GLN:NE2	1:A:1560:LYS:HG2	1.87	0.88
1:A:3121:LEU:HD23	1:A:3429:TRP:HB3	1.31	0.88
2:B:1058:LYS:HG3	2:B:1166:GLU:CA	2.01	0.88
2:B:3178:VAL:CG1	2:B:3395:LEU:CD2	2.42	0.88
6:F:87:TYR:HB3	6:F:98:LEU:HD11	1.55	0.88
1:A:470:PHE:CB	1:A:485:THR:CB	2.51	0.88
1:A:1430:ARG:HG2	1:A:1490:PHE:CD2	2.09	0.88
1:A:1633:ALA:HB1	1:A:1839:LEU:O	1.72	0.88
3:C:36:PHE:CB	3:C:57:VAL:HG22	2.03	0.88
3:C:2018:GLN:HG3	19:C:4305:ADP:H2'	1.56	0.88
1:A:614:PHE:CE1	1:A:644:LEU:HB3	2.09	0.88
2:B:56:ASP:O	2:B:71:CYS:CB	2.22	0.88
2:B:1531:ILE:CD1	2:B:1595:LEU:CD1	2.51	0.88
3:C:359:GLY:O	3:C:440:TYR:CB	2.20	0.88
7:G:58:SER:O	7:G:62:ASP:CB	2.21	0.88
1:A:403:ALA:CA	1:A:471:ASN:CB	2.50	0.88
1:A:1525:PHE:CB	1:A:1541:PHE:CD2	2.21	0.88
2:B:897:SER:HB3	2:B:898:PRO:HD3	1.55	0.88
2:B:1559:MET:CE	2:B:1577:ARG:NH2	2.36	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:105:MET:CE	14:N:48:GLN:CA	2.51	0.88
5:E:61:VAL:CG1	10:J:95:PHE:CZ	2.56	0.88
5:E:266:THR:OG1	5:E:283:SER:HA	1.74	0.88
1:A:723:PHE:CD1	1:A:772:TRP:CZ2	2.61	0.88
1:A:3257:VAL:CG2	1:A:3266:VAL:HG12	1.90	0.88
3:C:12:GLN:HE21	3:C:349:LEU:CB	1.87	0.88
3:C:196:PRO:N	3:C:239:TRP:HZ2	1.71	0.88
3:C:2807:SER:OG	3:C:2810:ALA:HB2	1.72	0.88
4:D:107:VAL:HG21	15:O:96:ARG:HG2	1.55	0.88
4:D:111:MET:HE1	15:O:90:ILE:HG22	1.55	0.88
5:E:129:LEU:HD11	6:F:80:ARG:HD3	1.55	0.88
5:E:310:LEU:HD11	5:E:358:ARG:HH12	1.38	0.88
5:E:386:VAL:HG13	5:E:391:CYS:HB3	1.54	0.88
6:F:91:GLN:NE2	6:F:96:THR:HG21	1.89	0.88
9:I:20:ILE:O	9:I:99:TYR:OH	1.92	0.88
1:A:1638:THR:CB	1:A:1655:GLN:HG3	2.04	0.88
2:B:861:ASP:CB	3:C:171:ARG:HD2	2.03	0.88
2:B:1602:LYS:NZ	2:B:1683:GLU:OE1	2.03	0.88
4:D:172:GLU:CG	12:L:51:LYS:HE2	2.03	0.88
5:E:24:GLU:OE2	14:N:91:THR:HG22	1.73	0.88
6:F:91:GLN:HG2	6:F:96:THR:HG22	0.90	0.88
14:N:84:GLN:HE21	15:O:61:GLU:HB2	1.39	0.88
1:A:576:TYR:HE1	1:A:620:PRO:O	1.28	0.88
1:A:732:TYR:CE1	4:D:391:ARG:HB2	2.06	0.88
1:A:3305:LEU:CD2	17:Q:80:SER:N	2.34	0.88
2:B:429:LEU:CG	2:B:489:PHE:CE2	2.54	0.88
2:B:659:THR:HG22	2:B:757:TRP:HE1	1.27	0.88
3:C:2727:ILE:CD1	3:C:2745:LYS:CB	2.51	0.88
4:D:212:ILE:HD13	9:I:15:LEU:HD22	1.55	0.88
10:J:36:ILE:HG23	10:J:72:PHE:CZ	2.09	0.88
1:A:670:LEU:CB	1:A:692:ILE:CD1	2.48	0.88
1:A:803:GLU:OE2	5:E:148:LYS:CE	2.21	0.88
1:A:942:VAL:HG21	1:A:1021:THR:HG22	1.56	0.88
2:B:762:ILE:HA	2:B:765:PHE:HB3	1.54	0.88
3:C:159:TYR:HD1	3:C:179:VAL:HG22	1.36	0.88
3:C:2636:LYS:O	3:C:2643:GLU:OE1	1.90	0.88
4:D:94:ARG:CZ	13:M:78:ASN:ND2	2.35	0.88
4:D:584:ILE:CG2	4:D:614:VAL:CG2	2.52	0.88
5:E:282:THR:CG2	5:E:322:LEU:HD12	2.04	0.88
1:A:604:ALA:HB3	1:A:698:GLU:HG2	1.56	0.88
1:A:686:VAL:CG2	1:A:731:LEU:CD2	2.34	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:ASN:HA	5:E:450:HIS:CE1	2.09	0.88
1:A:990:ALA:HB1	18:R:119:GLU:CB	2.04	0.88
1:A:1126:VAL:HA	1:A:1131:SER:HG	1.37	0.88
2:B:659:THR:CG2	2:B:757:TRP:CD1	2.54	0.88
2:B:1119:LYS:HB3	2:B:1138:LYS:CE	2.04	0.88
2:B:4227:PHE:HB2	2:B:4230:ILE:HD11	1.54	0.88
4:D:105:MET:HE3	14:N:51:ILE:HD12	1.55	0.88
6:F:91:GLN:CB	6:F:96:THR:HG22	2.03	0.88
1:A:95:PHE:CB	1:A:124:THR:CB	2.51	0.87
1:A:1101:HIS:CA	1:A:1163:LEU:HD11	2.03	0.87
2:B:679:ARG:HA	5:E:186:PHE:CZ	2.09	0.87
2:B:733:GLU:CD	2:B:783:MET:HG2	1.99	0.87
2:B:798:ASN:HB3	2:B:874:ALA:HB2	1.53	0.87
3:C:165:GLY:O	3:C:174:PHE:HZ	1.53	0.87
3:C:504:ALA:HB1	3:C:525:LYS:CB	2.04	0.87
4:D:367:LEU:CD2	4:D:371:THR:HG1	1.87	0.87
4:D:543:MET:HE3	4:D:563:MET:HE3	1.56	0.87
5:E:99:ILE:CD1	6:F:31:ILE:CD1	2.51	0.87
5:E:310:LEU:HD11	5:E:358:ARG:NH1	1.88	0.87
6:F:48:ILE:CD1	6:F:98:LEU:CD2	2.08	0.87
10:J:32:CYS:HB3	10:J:96:ILE:HG12	1.56	0.87
1:A:697:ARG:NH2	4:D:419:SER:OG	2.07	0.87
1:A:944:LEU:CD1	1:A:1013:VAL:HG11	2.04	0.87
1:A:3232:ILE:HG23	1:A:3316:TRP:HE3	1.39	0.87
1:A:3300:GLU:C	17:Q:76:ILE:CB	2.47	0.87
1:A:3442:LYS:CB	1:A:3485:THR:HG23	2.04	0.87
2:B:436:PHE:HE1	2:B:499:LEU:CD2	1.57	0.87
2:B:829:VAL:HG11	2:B:940:ILE:CG2	2.04	0.87
4:D:80:PRO:CD	15:O:103:TRP:CZ2	2.56	0.87
5:E:46:ASN:O	12:L:88:PHE:CE1	2.27	0.87
5:E:261:HIS:HE1	5:E:283:SER:CB	1.86	0.87
10:J:26:VAL:HG23	10:J:98:PHE:CB	2.04	0.87
10:J:38:GLU:HB2	15:O:29:PHE:CE1	2.08	0.87
14:N:70:THR:HG22	15:O:99:SER:HB3	1.56	0.87
1:A:598:ARG:NH1	4:D:504:TYR:CD1	2.42	0.87
1:A:1012:LYS:HZ1	1:A:1072:GLY:N	1.48	0.87
2:B:904:LEU:HD11	2:B:911:ILE:HG23	1.54	0.87
5:E:117:GLU:CD	6:F:17:LEU:HD11	1.98	0.87
5:E:385:SER:OG	5:E:394:TRP:HZ3	1.55	0.87
1:A:1276:GLN:HG2	4:D:153:HIS:HE1	1.39	0.87
2:B:1395:LEU:CA	2:B:1430:ILE:CD1	2.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1528:LEU:HD21	2:B:1591:CYS:HB2	1.53	0.87
3:C:2018:GLN:CG	19:C:4305:ADP:H2'	2.04	0.87
4:D:395:HIS:CE1	4:D:399:VAL:HG12	2.09	0.87
4:D:543:MET:HE1	4:D:563:MET:HE2	1.56	0.87
8:H:71:PHE:HB3	8:H:89:PHE:HB2	1.57	0.87
1:A:40:LEU:N	1:A:41:LEU:N	2.23	0.87
1:A:59:VAL:O	1:A:100:ASN:O	1.91	0.87
1:A:1143:ARG:HD2	4:D:169:ASN:OD1	1.74	0.87
2:B:444:LEU:O	5:E:515:LYS:HG3	1.75	0.87
2:B:952:PRO:HD2	3:C:222:PHE:CD1	2.09	0.87
2:B:3264:ASN:HB2	2:B:3306:ILE:HD12	1.53	0.87
3:C:165:GLY:N	3:C:174:PHE:HE2	1.71	0.87
4:D:602:LEU:HD12	4:D:616:LEU:HD21	1.54	0.87
8:H:12:LYS:CG	8:H:80:TYR:CE2	2.56	0.87
8:H:70:THR:OG1	9:I:64:LYS:NZ	2.07	0.87
15:O:30:TYR:N	15:O:31:PRO:HD2	1.89	0.87
1:A:972:TRP:CE3	1:A:985:PHE:CZ	2.51	0.87
1:A:1562:ILE:HB	1:A:1563:PRO:HD3	1.55	0.87
1:A:3124:ILE:CD1	1:A:3429:TRP:CD1	2.58	0.87
1:A:3250:PRO:HD3	17:Q:106:PHE:CE2	2.09	0.87
2:B:658:GLN:HE21	2:B:672:ASN:CG	1.82	0.87
3:C:12:GLN:NE2	3:C:349:LEU:HB3	1.89	0.87
8:H:7:VAL:HG23	8:H:9:PRO:HD3	1.56	0.87
1:A:697:ARG:CZ	4:D:458:CYS:CB	2.44	0.87
1:A:1028:LYS:C	1:A:1088:TRP:HH2	1.80	0.87
1:A:3308:PRO:CD	17:Q:32:ILE:CB	2.50	0.87
2:B:443:GLU:CD	5:E:514:ARG:HH12	1.79	0.87
2:B:741:ILE:CD1	2:B:776:LEU:HD11	2.05	0.87
2:B:1511:VAL:CG1	2:B:1570:VAL:CG2	2.35	0.87
14:N:116:ALA:O	15:O:131:PHE:CD1	2.28	0.87
2:B:409:SER:O	2:B:413:PHE:N	2.06	0.87
2:B:733:GLU:OE2	2:B:783:MET:HG2	1.73	0.87
2:B:952:PRO:CD	3:C:223:THR:N	2.26	0.87
3:C:2792:TYR:O	3:C:2796:PRO:HD3	1.73	0.87
5:E:16:ASN:HB3	15:O:132:GLU:HG3	0.89	0.87
8:H:60:ILE:HD12	9:I:78:ILE:HG12	1.57	0.87
1:A:600:MET:HE1	1:A:697:ARG:HH11	1.40	0.87
1:A:704:ARG:HE	4:D:457:ALA:HA	1.40	0.87
1:A:805:ARG:HG3	5:E:151:MET:HE2	1.56	0.87
1:A:3298:ILE:O	1:A:3343:HIS:NE2	2.08	0.87
2:B:682:LYS:CE	5:E:186:PHE:CD1	2.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:954:ASP:CB	3:C:220:TRP:CZ2	2.33	0.87
4:D:584:ILE:CG2	4:D:614:VAL:HG21	2.05	0.87
10:J:36:ILE:CG1	10:J:72:PHE:CE1	2.58	0.87
14:N:72:ILE:HG12	15:O:97:ILE:HD13	1.56	0.87
1:A:709:ILE:HG22	1:A:710:PRO:CD	2.03	0.86
1:A:1417:GLU:HG2	1:A:1421:GLU:CG	2.04	0.86
1:A:3248:LEU:HD13	17:Q:81:ARG:H	1.36	0.86
1:A:3305:LEU:CG	17:Q:80:SER:N	2.32	0.86
2:B:3301:ASN:CG	2:B:3351:LYS:NZ	2.32	0.86
2:B:3401:ARG:O	2:B:3405:VAL:HG23	1.75	0.86
3:C:2723:PHE:CZ	3:C:2749:VAL:CG1	2.58	0.86
4:D:201:GLN:OE1	9:I:102:ASN:CB	2.23	0.86
6:F:14:LEU:HD23	6:F:23:TYR:CB	1.90	0.86
14:N:72:ILE:CG1	15:O:97:ILE:CD1	2.52	0.86
1:A:1146:GLN:HE22	13:M:10:THR:N	1.73	0.86
1:A:1424:ASP:HA	1:A:1427:LEU:HB2	1.57	0.86
1:A:1487:VAL:HG23	1:A:1490:PHE:CZ	2.10	0.86
1:A:3124:ILE:HD13	1:A:3425:GLU:HG3	1.56	0.86
2:B:669:ILE:HD12	2:B:719:VAL:CB	2.05	0.86
2:B:3268:THR:HG22	2:B:3269:LEU:H	1.40	0.86
5:E:42:GLN:HE22	12:L:91:ASN:HD21	1.17	0.86
5:E:391:CYS:SG	5:E:427:LEU:HD11	2.15	0.86
8:H:66:GLY:HA2	9:I:56:ILE:HG21	1.51	0.86
17:Q:43:GLY:HA2	17:Q:67:SER:CB	2.04	0.86
1:A:800:ASP:O	5:E:149:THR:N	2.08	0.86
1:A:1458:MET:CE	1:A:1518:TRP:CH2	2.58	0.86
1:A:3306:LEU:HD13	1:A:3306:LEU:C	2.00	0.86
2:B:939:ASN:HD22	3:C:283:THR:CB	1.87	0.86
2:B:956:LEU:HD23	3:C:285:SER:HB2	0.87	0.86
2:B:1069:THR:HB	2:B:1070:PRO:HD2	1.56	0.86
1:A:1013:VAL:HG12	1:A:1017:LEU:HD11	1.56	0.86
1:A:1028:LYS:O	1:A:1088:TRP:CH2	2.29	0.86
1:A:3236:ILE:HA	1:A:3333:LEU:CD2	2.05	0.86
2:B:444:LEU:HA	5:E:515:LYS:HG2	1.44	0.86
2:B:1127:ASN:HB3	2:B:1128:PRO:HD2	1.57	0.86
1:A:3293:PHE:CE1	1:A:3335:TRP:CH2	2.63	0.86
2:B:436:PHE:HE1	2:B:499:LEU:HD23	1.23	0.86
2:B:679:ARG:HB3	5:E:186:PHE:CE2	2.09	0.86
4:D:248:MET:HE2	7:G:147:VAL:HG23	1.56	0.86
5:E:50:LEU:CD1	12:L:95:PHE:HB2	2.04	0.86
9:I:95:LEU:HD23	9:I:107:ILE:HD11	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1044:THR:OG1	1:A:1047:ASN:HB2	1.75	0.86
2:B:3445:LYS:HB3	2:B:3487:PRO:CB	2.05	0.86
4:D:528:TRP:CD1	4:D:535:GLN:N	2.44	0.86
17:Q:24:SER:CB	17:Q:48:THR:O	2.23	0.86
1:A:565:LEU:O	1:A:569:TYR:CD2	2.29	0.86
1:A:723:PHE:HE1	1:A:772:TRP:CE2	1.93	0.86
1:A:1230:TYR:O	1:A:1256:TYR:CB	2.23	0.86
1:A:1459:LEU:O	1:A:1552:MET:SD	2.33	0.86
2:B:162:TYR:CB	2:B:176:LEU:CB	2.53	0.86
2:B:714:ALA:HA	2:B:717:MET:HE2	1.58	0.86
2:B:956:LEU:CD2	3:C:285:SER:HB2	1.76	0.86
2:B:1175:ASN:O	2:B:1179:THR:HG23	1.74	0.86
2:B:3143:LEU:HD23	2:B:3698:LEU:CD1	2.06	0.86
3:C:2596:LEU:HG	3:C:2924:MET:CE	2.06	0.86
3:C:2745:LYS:CD	3:C:2749:VAL:CG2	2.07	0.86
4:D:523:TRP:HB3	4:D:544:MET:HA	1.57	0.86
5:E:61:VAL:HG22	10:J:106:LEU:HD21	1.56	0.86
7:G:118:ASP:OD1	9:I:12:ILE:CD1	2.22	0.86
1:A:704:ARG:NE	4:D:457:ALA:CA	2.39	0.86
1:A:744:ILE:HD13	1:A:752:LEU:HD23	1.56	0.86
1:A:763:LEU:HD13	1:A:763:LEU:O	1.75	0.86
1:A:1051:GLN:NE2	1:A:1096:TYR:CZ	2.36	0.86
1:A:1597:LYS:NZ	1:A:1962:ILE:HD11	1.90	0.86
2:B:659:THR:CA	2:B:757:TRP:HE1	1.88	0.86
2:B:861:ASP:OD1	3:C:169:TYR:O	1.94	0.86
2:B:966:LYS:CD	3:C:345:TRP:CE3	2.51	0.86
4:D:175:THR:OG1	13:M:60:ASN:HA	1.76	0.86
4:D:196:CYS:SG	9:I:86:ASP:CG	2.59	0.86
5:E:428:VAL:HG12	5:E:434:MET:HG3	1.57	0.86
6:F:91:GLN:HG2	6:F:96:THR:CB	2.04	0.86
1:A:597:VAL:HG12	4:D:460:LEU:CD1	2.05	0.86
1:A:793:GLN:C	5:E:451:LYS:HB3	2.00	0.86
1:A:807:GLU:HG2	1:A:811:LYS:CE	2.05	0.86
1:A:891:PHE:CE1	1:A:985:PHE:HZ	1.92	0.86
2:B:503:LEU:O	2:B:507:ILE:HG13	1.75	0.86
2:B:669:ILE:HG21	2:B:719:VAL:HG11	1.58	0.86
2:B:857:LYS:CA	3:C:170:GLN:N	2.38	0.86
3:C:2724:ALA:HB1	3:C:2793:LEU:HD13	1.57	0.86
3:C:2740:ILE:CG2	3:C:2744:LYS:HB3	2.05	0.86
4:D:175:THR:HG1	13:M:61:PHE:N	1.70	0.86
4:D:626:GLU:OE1	4:D:629:GLN:HG2	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:81:THR:HG21	7:G:114:VAL:HG21	1.29	0.86
14:N:116:ALA:HB3	15:O:131:PHE:CE1	2.11	0.86
17:Q:69:ASN:HA	17:Q:92:ASP:CB	2.02	0.86
1:A:121:GLY:CA	2:B:105:ALA:O	2.24	0.86
1:A:597:VAL:HG13	4:D:502:ALA:HB1	0.87	0.86
1:A:755:HIS:HE1	1:A:869:TYR:HD2	1.02	0.86
1:A:868:LEU:HB3	5:E:454:ASP:CB	2.05	0.86
1:A:3215:ILE:CG2	1:A:3219:ASP:CG	2.48	0.86
1:A:3303:ILE:CD1	1:A:3340:TYR:CE2	2.58	0.86
1:A:3421:SER:HB3	1:A:3716:LEU:HG	1.58	0.86
2:B:1139:LEU:HD21	2:B:1198:ILE:CG1	2.06	0.86
2:B:1395:LEU:HA	2:B:1430:ILE:HD11	1.54	0.86
2:B:3255:THR:OG1	2:B:3337:CYS:SG	2.32	0.86
3:C:2734:PHE:CE2	3:C:2767:LYS:HE3	2.11	0.86
3:C:2774:VAL:HG12	3:C:2780:VAL:CG2	2.06	0.86
4:D:414:PHE:HD2	4:D:426:TRP:HD1	1.23	0.86
14:N:89:GLN:HE22	14:N:116:ALA:H	1.23	0.86
1:A:612:HIS:ND1	4:D:501:LEU:HG	1.90	0.85
1:A:3305:LEU:CD1	17:Q:102:LEU:HA	2.06	0.85
2:B:511:PHE:CE2	2:B:547:LEU:CD2	2.56	0.85
2:B:799:VAL:CB	2:B:800:LYS:N	2.38	0.85
2:B:1123:GLY:CA	2:B:1197:PHE:CZ	2.59	0.85
2:B:3118:TYR:HD2	2:B:3455:SER:OG	1.57	0.85
3:C:2721:GLU:HB2	3:C:2803:MET:HE1	1.53	0.85
4:D:174:GLN:HB2	13:M:62:GLY:CA	2.01	0.85
4:D:265:ARG:HG2	5:E:125:GLN:CG	2.02	0.85
5:E:395:VAL:HG23	5:E:402:ILE:CG1	2.05	0.85
16:P:39:TRP:CB	16:P:40:SER:N	2.39	0.85
1:A:801:ILE:CG1	5:E:149:THR:HB	2.05	0.85
1:A:801:ILE:HG13	5:E:149:THR:OG1	1.76	0.85
2:B:651:SER:OG	2:B:680:LEU:HD22	1.75	0.85
2:B:679:ARG:HD3	5:E:187:GLN:OE1	1.76	0.85
3:C:99:GLY:HA3	3:C:149:HIS:HE1	1.33	0.85
4:D:269:SER:OG	4:D:617:SER:HA	1.75	0.85
6:F:91:GLN:HG2	6:F:96:THR:HG21	1.55	0.85
10:J:75:TYR:HB3	11:K:92:LYS:HE2	1.57	0.85
1:A:1433:LEU:HD12	1:A:1490:PHE:CD1	2.11	0.85
2:B:595:LEU:CD2	5:E:389:TRP:HZ2	1.89	0.85
2:B:963:PHE:CE2	3:C:39:LEU:HD21	2.11	0.85
2:B:966:LYS:HG3	3:C:341:TRP:NE1	1.89	0.85
2:B:1458:PHE:HD1	2:B:1560:MET:HE3	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1467:PHE:HB3	2:B:1470:LEU:HD11	0.87	0.85
4:D:195:ILE:CD1	9:I:94:LEU:HD21	2.03	0.85
6:F:56:TRP:CD2	6:F:91:GLN:NE2	2.44	0.85
1:A:601:PRO:HG2	1:A:698:GLU:HG2	1.58	0.85
1:A:970:TYR:C	1:A:983:ALA:HB1	2.00	0.85
2:B:2190:LYS:HE2	20:B:5403:ATP:O1B	1.76	0.85
3:C:10:LEU:HD22	3:C:65:ASN:O	1.76	0.85
5:E:46:ASN:HB3	12:L:88:PHE:HE1	1.40	0.85
8:H:67:SER:HB2	9:I:78:ILE:CG2	2.05	0.85
1:A:891:PHE:CE1	1:A:985:PHE:CZ	2.64	0.85
1:A:1263:TYR:HE2	1:A:1280:TYR:O	1.60	0.85
1:A:3248:LEU:HD13	17:Q:80:SER:C	2.01	0.85
1:A:3248:LEU:HD11	17:Q:80:SER:CB	2.06	0.85
2:B:1470:LEU:O	2:B:1474:MET:HG2	1.76	0.85
2:B:1492:LYS:NZ	2:B:3606:GLN:CD	2.32	0.85
4:D:595:PHE:CD1	4:D:602:LEU:CD2	2.58	0.85
5:E:16:ASN:CA	15:O:132:GLU:HG3	2.06	0.85
5:E:64:GLU:OE2	10:J:18:TYR:HE2	1.59	0.85
1:A:801:ILE:CD1	1:A:862:LEU:HD23	2.06	0.85
1:A:871:LEU:HD22	1:A:872:ASP:H	1.40	0.85
1:A:1151:MET:HA	4:D:176:ILE:HD11	1.58	0.85
2:B:660:LEU:HD22	2:B:671:VAL:HA	1.57	0.85
2:B:724:HIS:CG	2:B:728:CYS:SG	2.69	0.85
2:B:858:ASN:CG	3:C:169:TYR:CE1	2.53	0.85
2:B:1511:VAL:HG13	2:B:1570:VAL:HG23	1.58	0.85
3:C:2706:PHE:CD1	3:C:2761:PRO:HG3	2.11	0.85
4:D:70:MET:CE	5:E:13:GLU:HB3	2.07	0.85
5:E:112:LEU:CD2	6:F:97:MET:HG2	2.01	0.85
6:F:61:LYS:CE	8:H:33:ASP:O	2.24	0.85
8:H:67:SER:CB	9:I:78:ILE:CG2	2.53	0.85
15:O:22:LEU:CD1	15:O:23:ASN:OD1	2.24	0.85
1:A:704:ARG:CZ	4:D:455:GLY:O	2.24	0.85
1:A:709:ILE:CD1	4:D:454:ILE:HG22	2.07	0.85
1:A:1151:MET:HE1	4:D:176:ILE:N	1.91	0.85
2:B:603:ILE:HD11	2:B:626:TYR:CE1	2.12	0.85
2:B:658:GLN:CG	2:B:672:ASN:O	2.24	0.85
2:B:1317:LEU:CB	16:P:61:GLU:HA	2.05	0.85
2:B:1531:ILE:HD13	2:B:1618:LEU:HD22	1.57	0.85
4:D:207:ALA:HB1	9:I:24:ILE:HD11	0.85	0.85
5:E:310:LEU:CG	5:E:358:ARG:CZ	2.54	0.85
1:A:3244:PHE:O	17:Q:125:GLY:HA3	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:500:GLU:CG	2:B:532:THR:HG21	2.07	0.85
2:B:1447:ILE:CD1	2:B:1484:LEU:CB	2.55	0.85
4:D:207:ALA:CA	9:I:24:ILE:HD11	2.06	0.85
5:E:239:LEU:HD21	5:E:257:VAL:CG2	2.03	0.85
8:H:67:SER:HB2	9:I:78:ILE:HG22	1.57	0.85
10:J:86:CYS:HG	11:K:61:VAL:HG22	1.35	0.85
1:A:948:LEU:HG	1:A:1010:LYS:HG2	1.58	0.85
1:A:3290:LEU:HD22	1:A:3335:TRP:HZ2	1.29	0.85
1:A:3299:ASN:HB3	1:A:3302:THR:OG1	1.77	0.85
1:A:3446:ASN:HD21	1:A:3488:LEU:HD13	1.37	0.85
2:B:799:VAL:CA	2:B:800:LYS:N	2.40	0.85
2:B:1145:LYS:O	2:B:1149:ASP:HB2	1.75	0.85
2:B:3230:ALA:HB1	2:B:3342:ASN:OD1	1.76	0.85
3:C:2711:SER:HB3	3:C:2751:TRP:HZ2	1.24	0.85
3:C:2807:SER:OG	3:C:2810:ALA:CB	2.24	0.85
4:D:105:MET:SD	14:N:48:GLN:CB	2.64	0.85
4:D:585:VAL:HG12	4:D:588:PRO:HD2	1.57	0.85
5:E:16:ASN:ND2	15:O:132:GLU:HA	1.92	0.85
5:E:46:ASN:O	12:L:88:PHE:CD2	2.29	0.85
5:E:420:THR:HG22	5:E:472:SER:HB2	1.58	0.85
6:F:61:LYS:HE2	8:H:33:ASP:O	1.75	0.85
13:M:12:MET:HG3	13:M:73:ILE:HB	1.58	0.85
1:A:704:ARG:HE	4:D:457:ALA:N	1.75	0.85
1:A:1146:GLN:NE2	13:M:10:THR:N	2.25	0.85
1:A:3212:VAL:HG22	1:A:3338:ALA:HB3	1.58	0.85
2:B:815:ASP:O	2:B:819:LYS:HG3	1.77	0.85
2:B:913:PHE:HE2	2:B:1078:ILE:CD1	1.89	0.85
2:B:961:SER:O	3:C:345:TRP:HZ2	1.59	0.85
5:E:100:GLU:CB	5:E:105:PHE:CD2	2.28	0.85
5:E:112:LEU:HD21	6:F:97:MET:SD	2.09	0.85
7:G:58:SER:C	7:G:59:GLU:CA	2.50	0.85
15:O:22:LEU:HD12	15:O:23:ASN:N	1.92	0.85
1:A:761:LEU:C	1:A:761:LEU:HD13	2.02	0.84
1:A:935:VAL:HG22	1:A:944:LEU:HD22	0.85	0.84
1:A:3257:VAL:HG11	1:A:3266:VAL:CG2	2.06	0.84
2:B:10:PRO:O	2:B:25:GLN:N	2.10	0.84
2:B:518:TYR:CE1	5:E:407:TYR:CE2	2.60	0.84
2:B:1004:SER:HG	2:B:1094:TRP:HH2	0.93	0.84
2:B:2543:GLY:HA2	19:B:5405:ADP:PA	2.16	0.84
3:C:1983:THR:HG22	19:C:4305:ADP:N1	1.92	0.84
3:C:2213:ARG:NH2	19:C:4305:ADP:O3A	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2636:LYS:O	3:C:2643:GLU:CD	2.18	0.84
3:C:2639:ASP:HB2	3:C:2643:GLU:OE2	1.75	0.84
9:I:30:MET:HE2	9:I:35:LEU:HD23	1.59	0.84
1:A:597:VAL:HG11	4:D:477:GLU:CG	2.07	0.84
1:A:600:MET:HE2	1:A:697:ARG:HH11	1.37	0.84
1:A:3128:THR:HG22	1:A:3422:LEU:HB3	1.56	0.84
1:A:3240:VAL:HG12	1:A:3244:PHE:CE1	2.12	0.84
2:B:952:PRO:HD2	3:C:223:THR:N	1.92	0.84
2:B:969:LEU:CD1	3:C:343:ASN:HD22	1.90	0.84
2:B:2334:TYR:CA	20:B:5403:ATP:H2	1.90	0.84
12:L:84:CYS:HB2	13:M:56:ILE:HG12	1.57	0.84
1:A:160:GLU:CB	2:B:167:GLN:CB	2.54	0.84
2:B:57:ASN:HA	2:B:71:CYS:CB	2.05	0.84
2:B:58:SER:H	2:B:70:LYS:C	1.85	0.84
2:B:799:VAL:C	2:B:800:LYS:CA	2.49	0.84
2:B:799:VAL:HG12	2:B:800:LYS:N	1.93	0.84
2:B:1485:MET:CB	2:B:1505:ARG:HD2	2.05	0.84
2:B:3136:TYR:O	2:B:3433:TRP:CE3	2.30	0.84
4:D:80:PRO:HG3	15:O:103:TRP:HE1	0.76	0.84
5:E:64:GLU:OE2	10:J:18:TYR:CE2	2.30	0.84
1:A:590:GLN:HG3	4:D:523:TRP:HZ3	1.41	0.84
1:A:857:ARG:CZ	5:E:206:ASN:O	2.25	0.84
1:A:1429:ILE:CG2	1:A:1490:PHE:CZ	2.59	0.84
2:B:479:ASN:ND2	2:B:482:GLU:OE2	2.10	0.84
4:D:80:PRO:CG	15:O:103:TRP:CZ2	2.60	0.84
4:D:517:ILE:HG12	4:D:550:TRP:NE1	1.92	0.84
5:E:46:ASN:CB	12:L:88:PHE:HE1	1.82	0.84
1:A:598:ARG:CB	4:D:460:LEU:CD2	2.55	0.84
1:A:670:LEU:HD23	1:A:772:TRP:CD1	2.13	0.84
1:A:841:ILE:HD13	1:A:961:ALA:HB1	1.59	0.84
1:A:990:ALA:HB2	18:R:119:GLU:CB	2.05	0.84
2:B:744:MET:CE	2:B:772:ILE:HG13	2.07	0.84
2:B:1123:GLY:HA2	2:B:1197:PHE:HZ	1.33	0.84
3:C:165:GLY:CA	3:C:174:PHE:CE2	2.60	0.84
4:D:617:SER:OG	4:D:618:PRO:HD2	1.75	0.84
5:E:310:LEU:HD11	5:E:358:ARG:CZ	2.08	0.84
8:H:67:SER:HA	9:I:78:ILE:HG22	1.57	0.84
1:A:709:ILE:HD11	4:D:454:ILE:HG22	1.59	0.84
1:A:1126:VAL:HA	1:A:1131:SER:CB	2.07	0.84
2:B:962:PHE:O	3:C:345:TRP:CH2	2.26	0.84
3:C:2708:GLN:NE2	3:C:2813:ILE:HG13	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:ASN:ND2	5:E:452:VAL:CA	2.36	0.84
1:A:1013:VAL:HG12	1:A:1017:LEU:CD1	2.07	0.84
1:A:1121:LYS:HD3	1:A:1138:THR:CG2	2.07	0.84
1:A:1146:GLN:HG3	13:M:9:ALA:HB2	1.41	0.84
1:A:1633:ALA:HB3	1:A:1839:LEU:O	1.76	0.84
1:A:3194:ALA:CB	1:A:3356:VAL:CG2	2.54	0.84
2:B:345:ARG:CB	2:B:412:LEU:CD1	2.55	0.84
2:B:429:LEU:HD11	2:B:489:PHE:CG	2.12	0.84
2:B:888:PRO:HA	2:B:891:ILE:HG22	1.60	0.84
2:B:1531:ILE:HD13	2:B:1595:LEU:CD1	2.08	0.84
3:C:2711:SER:O	3:C:2751:TRP:CZ2	2.29	0.84
3:C:2892:ARG:HD3	3:C:3184:LEU:HB2	1.60	0.84
4:D:75:LEU:HB2	15:O:102:LEU:HD11	0.86	0.84
10:J:94:ARG:HB3	10:J:109:GLN:HB3	1.59	0.84
12:L:74:TRP:CD1	12:L:109:LYS:HD2	2.13	0.84
14:N:89:GLN:NE2	14:N:116:ALA:H	1.76	0.84
1:A:597:VAL:CG2	4:D:502:ALA:CB	2.56	0.84
1:A:871:LEU:CD2	1:A:872:ASP:H	1.90	0.84
1:A:1598:LYS:HD3	1:A:1681:GLU:OE2	1.77	0.84
2:B:953:GLY:HA2	3:C:222:PHE:HA	1.59	0.84
2:B:1447:ILE:HG21	2:B:1504:TRP:CD1	2.13	0.84
3:C:2721:GLU:CB	3:C:2803:MET:CE	2.23	0.84
4:D:208:TYR:N	9:I:24:ILE:HD12	1.93	0.84
10:J:26:VAL:HG23	10:J:97:TYR:C	2.01	0.84
1:A:659:TRP:CZ2	1:A:702:LEU:HD12	2.12	0.84
1:A:837:GLN:HE22	1:A:958:ALA:CB	1.88	0.84
2:B:445:GLY:CA	5:E:511:ARG:NH1	2.41	0.84
2:B:520:ARG:HH12	2:B:550:MET:CG	1.91	0.84
2:B:3139:GLY:HA3	2:B:3433:TRP:HH2	0.76	0.84
4:D:441:LEU:HD12	4:D:457:ALA:O	1.76	0.84
8:H:46:LYS:HE3	9:I:86:ASP:CB	2.04	0.84
14:N:75:GLN:H	15:O:93:GLN:HE21	1.23	0.84
1:A:1031:ILE:CG2	1:A:1034:SER:OG	2.25	0.84
2:B:489:PHE:CE1	2:B:493:ARG:HD3	2.13	0.84
2:B:861:ASP:CG	3:C:171:ARG:HD2	2.02	0.84
2:B:2333:PRO:C	20:B:5403:ATP:N1	2.34	0.84
4:D:545:VAL:HA	4:D:562:THR:HG22	1.58	0.84
1:A:935:VAL:CG2	1:A:1017:LEU:HD21	2.07	0.83
1:A:1205:GLN:CD	4:D:166:PHE:HE2	1.85	0.83
1:A:3117:PHE:CD2	1:A:3429:TRP:HZ3	1.94	0.83
2:B:429:LEU:HD12	2:B:489:PHE:HE2	1.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2543:GLY:CA	19:B:5405:ADP:O1A	2.25	0.83
4:D:81:GLN:OE1	15:O:110:TYR:CE2	2.31	0.83
1:A:697:ARG:CZ	4:D:458:CYS:SG	2.66	0.83
1:A:702:LEU:O	4:D:453:LEU:CD2	2.25	0.83
1:A:1525:PHE:CG	1:A:1541:PHE:HD2	1.95	0.83
1:A:3308:PRO:CG	17:Q:57:LEU:CA	2.56	0.83
2:B:1058:LYS:HG3	2:B:1166:GLU:HB3	0.84	0.83
2:B:1485:MET:CA	2:B:1505:ARG:HD2	2.08	0.83
4:D:265:ARG:NE	5:E:125:GLN:HA	1.93	0.83
4:D:283:LEU:HB2	4:D:582:GLN:HG3	1.60	0.83
5:E:323:GLU:HB3	5:E:334:LEU:HB3	1.59	0.83
14:N:116:ALA:CB	15:O:131:PHE:CE1	2.62	0.83
1:A:1522:GLU:HG3	1:A:1523:PRO:CD	2.02	0.83
1:A:1585:GLN:NE2	1:A:1585:GLN:O	2.11	0.83
2:B:2190:LYS:CE	20:B:5403:ATP:O1B	2.25	0.83
3:C:2720:PRO:C	3:C:2798:PHE:CZ	2.55	0.83
1:A:730:LEU:CD2	1:A:781:LEU:HD21	2.08	0.83
1:A:760:ASP:OD2	1:A:764:ARG:HD3	1.79	0.83
1:A:1012:LYS:HB3	1:A:1071:ILE:CG2	2.08	0.83
1:A:3231:ASP:OD2	1:A:3258:PHE:CE2	2.31	0.83
2:B:952:PRO:HB3	3:C:223:THR:O	1.79	0.83
4:D:414:PHE:HB3	4:D:426:TRP:HB2	1.58	0.83
4:D:552:PRO:HD3	4:D:595:PHE:CD2	2.13	0.83
1:A:155:GLY:HA3	2:B:168:ILE:CB	2.09	0.83
1:A:156:VAL:CA	2:B:168:ILE:HA	2.08	0.83
1:A:732:TYR:HB3	4:D:390:VAL:HB	1.61	0.83
2:B:13:PHE:CB	2:B:25:GLN:O	2.26	0.83
2:B:659:THR:HA	2:B:757:TRP:HE1	1.43	0.83
2:B:1123:GLY:CA	2:B:1197:PHE:HZ	1.91	0.83
2:B:3078:ILE:CD1	2:B:3452:LEU:HD22	2.08	0.83
5:E:23:THR:HG21	14:N:88:TYR:CD1	2.07	0.83
5:E:44:ASN:O	12:L:89:ASP:OD1	1.96	0.83
5:E:61:VAL:HG21	10:J:106:LEU:CD1	2.08	0.83
5:E:261:HIS:CE1	5:E:283:SER:CB	2.61	0.83
14:N:72:ILE:HG12	15:O:97:ILE:HG21	1.60	0.83
1:A:3300:GLU:O	17:Q:76:ILE:CB	2.25	0.83
2:B:1058:LYS:CG	2:B:1166:GLU:O	2.25	0.83
2:B:3228:GLU:HG2	2:B:3346:PHE:CE1	2.12	0.83
2:B:3261:ILE:HG23	2:B:3306:ILE:HG23	1.59	0.83
6:F:35:ARG:NH2	6:F:41:SER:HB2	1.94	0.83
6:F:48:ILE:HD11	6:F:98:LEU:HD22	1.56	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3110:LEU:CD1	1:A:3443:LEU:HD23	2.08	0.83
2:B:900:PHE:CZ	2:B:933:TRP:CH2	2.66	0.83
3:C:2711:SER:HB3	3:C:2751:TRP:CH2	2.13	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:CD1	2.62	0.83
1:A:794:LEU:C	1:A:794:LEU:HD13	2.03	0.83
1:A:1396:PRO:O	1:A:1400:TYR:N	2.11	0.83
3:C:1983:THR:HB	19:C:4305:ADP:N6	1.93	0.83
3:C:2708:GLN:HE21	3:C:2809:ALA:C	1.86	0.83
4:D:105:MET:CE	14:N:48:GLN:N	2.41	0.83
5:E:310:LEU:CD1	5:E:358:ARG:NH1	2.41	0.83
2:B:762:ILE:O	2:B:766:ILE:N	2.11	0.83
2:B:939:ASN:ND2	3:C:283:THR:HB	1.93	0.83
2:B:1511:VAL:N	2:B:1570:VAL:CG1	2.41	0.83
5:E:68:THR:HB	8:H:70:THR:CG2	2.08	0.83
8:H:28:ALA:HB1	8:H:86:ILE:HD12	1.60	0.83
8:H:62:GLY:HA3	9:I:83:TYR:HA	1.61	0.83
1:A:597:VAL:HG22	4:D:502:ALA:CB	2.08	0.83
1:A:1445:PHE:CE2	1:A:1564:CYS:HB2	2.11	0.83
2:B:409:SER:HA	2:B:413:PHE:CD1	2.12	0.83
2:B:467:VAL:C	2:B:471:THR:HG1	1.81	0.83
2:B:589:LEU:HD12	2:B:687:PHE:CZ	2.13	0.83
2:B:861:ASP:OD1	3:C:171:ARG:HG3	1.78	0.83
2:B:910:GLY:HA2	2:B:995:TYR:CD1	2.13	0.83
2:B:1051:ASP:HB3	2:B:1162:THR:CG2	2.08	0.83
2:B:1230:MET:HE1	2:B:1267:TYR:N	1.94	0.83
3:C:2850:LYS:O	3:C:2854:VAL:HG23	1.77	0.83
4:D:115:TYR:CZ	14:N:78:HIS:HD2	1.92	0.83
4:D:297:LYS:CE	4:D:316:LEU:HD23	2.02	0.83
5:E:99:ILE:HD12	6:F:31:ILE:HD11	1.59	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:HG13	2.14	0.83
14:N:116:ALA:C	15:O:131:PHE:HE1	1.86	0.83
1:A:505:THR:O	1:A:509:LYS:N	2.10	0.82
1:A:709:ILE:CD1	4:D:454:ILE:CG2	2.57	0.82
1:A:857:ARG:CZ	5:E:206:ASN:C	2.52	0.82
1:A:3248:LEU:HD12	17:Q:80:SER:HA	1.59	0.82
2:B:3301:ASN:CG	2:B:3351:LYS:HZ3	1.86	0.82
3:C:2745:LYS:CE	3:C:2749:VAL:CG1	2.45	0.82
4:D:265:ARG:CB	5:E:125:GLN:HG2	2.08	0.82
4:D:543:MET:SD	4:D:563:MET:CB	2.67	0.82
4:D:583:LYS:HD3	4:D:586:LYS:HA	1.61	0.82
5:E:53:ILE:HD13	12:L:81:ASN:HD21	1.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:871:LEU:CD2	1:A:875:VAL:CG1	2.56	0.82
1:A:3245:LYS:HB3	17:Q:123:TYR:O	1.76	0.82
1:A:3304:GLU:HA	17:Q:55:LEU:C	2.04	0.82
2:B:1492:LYS:HE2	2:B:3606:GLN:OE1	1.79	0.82
2:B:3133:ILE:HG12	2:B:3440:LEU:CD1	2.09	0.82
3:C:2701:ILE:CD1	3:C:2704:LYS:CG	2.57	0.82
4:D:201:GLN:HE22	9:I:102:ASN:N	1.77	0.82
4:D:252:VAL:CG1	7:G:149:GLN:HE22	1.92	0.82
4:D:529:ASP:OD2	4:D:532:TYR:HD2	1.58	0.82
10:J:79:PHE:CD2	11:K:68:ALA:CB	2.62	0.82
2:B:1230:MET:HE2	2:B:1267:TYR:HA	1.58	0.82
3:C:95:MET:HE2	3:C:116:THR:HG22	1.60	0.82
1:A:1121:LYS:HD3	1:A:1138:THR:HG22	1.59	0.82
1:A:3273:TYR:HH	1:A:3277:GLY:HA3	1.03	0.82
2:B:165:LEU:O	2:B:169:LYS:CA	2.26	0.82
2:B:544:HIS:CE1	2:B:609:LEU:CD1	2.19	0.82
2:B:579:PHE:CE1	5:E:369:PRO:HG2	2.14	0.82
4:D:68:GLU:CG	5:E:12:LYS:CA	2.57	0.82
4:D:92:TYR:CD1	13:M:29:LYS:HB3	2.14	0.82
4:D:367:LEU:HD11	4:D:371:THR:CB	2.09	0.82
5:E:16:ASN:N	15:O:132:GLU:HG2	1.95	0.82
5:E:112:LEU:CD2	6:F:97:MET:CG	2.57	0.82
15:O:22:LEU:HD11	15:O:23:ASN:OD1	1.79	0.82
1:A:723:PHE:CE1	1:A:772:TRP:CE2	2.65	0.82
1:A:3249:ILE:HD13	17:Q:106:PHE:CZ	2.14	0.82
2:B:444:LEU:HA	5:E:515:LYS:HG3	0.84	0.82
2:B:655:LYS:HB2	2:B:677:LEU:HD21	1.62	0.82
2:B:861:ASP:HA	2:B:864:ASN:HD21	1.42	0.82
2:B:864:ASN:HA	2:B:947:LEU:CD1	2.10	0.82
1:A:3247:ARG:HD3	17:Q:128:ARG:HA	1.62	0.82
1:A:3305:LEU:HD11	17:Q:102:LEU:HA	1.61	0.82
2:B:3162:VAL:HG13	2:B:3166:LYS:HE3	1.59	0.82
4:D:177:ASN:ND2	13:M:60:ASN:HB3	1.95	0.82
4:D:252:VAL:CG1	7:G:149:GLN:NE2	2.40	0.82
5:E:310:LEU:HG	5:E:358:ARG:HH21	1.38	0.82
1:A:700:LYS:HE3	1:A:720:GLU:CD	2.03	0.82
1:A:3106:LYS:CB	1:A:3443:LEU:HD21	2.09	0.82
1:A:3194:ALA:HB1	1:A:3356:VAL:HG21	1.61	0.82
2:B:409:SER:O	2:B:413:PHE:CB	2.26	0.82
2:B:533:ARG:CG	2:B:534:PRO:CD	2.57	0.82
3:C:504:ALA:CB	3:C:525:LYS:CB	2.58	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:384:LEU:CD2	5:E:417:TRP:CE2	2.63	0.82
14:N:89:GLN:HE21	14:N:94:ASP:CG	1.88	0.82
1:A:1101:HIS:HB2	1:A:1163:LEU:HD11	1.62	0.82
1:A:3236:ILE:HG23	1:A:3333:LEU:CA	2.10	0.82
1:A:3307:GLU:OE2	17:Q:55:LEU:CA	2.28	0.82
3:C:2365:GLY:HA2	19:C:4306:ADP:H3'	1.62	0.82
3:C:2793:LEU:CA	3:C:2796:PRO:HG2	2.10	0.82
5:E:174:PRO:HD3	5:E:466:GLY:HA2	1.62	0.82
5:E:310:LEU:CD2	5:E:358:ARG:HH21	1.88	0.82
8:H:60:ILE:CG1	9:I:85:TYR:HB2	2.08	0.82
14:N:8:TYR:CE1	14:N:13:VAL:HG21	2.15	0.82
1:A:793:GLN:HB3	5:E:451:LYS:HB2	0.82	0.82
1:A:879:LEU:HD12	1:A:882:GLU:OE2	1.79	0.82
1:A:3249:ILE:CD1	1:A:3274:ASP:H	1.92	0.82
2:B:518:TYR:HE1	5:E:407:TYR:HE2	0.93	0.82
2:B:736:LEU:HD12	2:B:859:TYR:HB2	1.59	0.82
3:C:99:GLY:CA	3:C:149:HIS:CE1	2.61	0.82
3:C:360:PRO:HG2	3:C:361:PRO:HD3	1.61	0.82
5:E:420:THR:CG2	5:E:472:SER:HB2	2.09	0.82
1:A:850:SER:CA	5:E:204:ASN:HB3	2.10	0.82
1:A:3236:ILE:CA	1:A:3333:LEU:HD21	2.03	0.82
1:A:3260:LYS:NZ	1:A:3315:ASP:HB3	1.94	0.82
2:B:682:LYS:NZ	5:E:186:PHE:HD1	1.41	0.82
2:B:888:PRO:HA	2:B:891:ILE:CG2	2.09	0.82
3:C:2734:PHE:CE2	3:C:2767:LYS:CE	2.62	0.82
5:E:432:GLY:HA2	5:E:457:LEU:HD13	1.61	0.82
1:A:801:ILE:HG21	1:A:862:LEU:CG	2.09	0.81
1:A:892:TRP:CZ2	7:G:13:ASP:CB	2.63	0.81
1:A:1020:PHE:CZ	1:A:1069:TYR:CD1	2.64	0.81
1:A:1101:HIS:CB	1:A:1163:LEU:HD11	2.10	0.81
1:A:1151:MET:SD	4:D:176:ILE:N	2.53	0.81
2:B:349:ASN:CB	2:B:416:LEU:CG	2.57	0.81
2:B:1058:LYS:HG3	2:B:1166:GLU:C	2.04	0.81
2:B:1450:TRP:C	2:B:1454:GLN:HG3	2.05	0.81
3:C:2636:LYS:C	3:C:2643:GLU:OE2	2.23	0.81
4:D:208:TYR:OH	9:I:19:MET:HG3	1.79	0.81
6:F:56:TRP:CZ3	6:F:74:ILE:HD11	2.14	0.81
1:A:861:ASP:OD2	5:E:152:LEU:HB2	1.03	0.81
1:A:3345:LYS:N	1:A:3345:LYS:HE3	1.94	0.81
2:B:864:ASN:HB2	2:B:947:LEU:HD23	0.83	0.81
2:B:1559:MET:CE	2:B:1577:ARG:HD3	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3268:THR:HG22	2:B:3269:LEU:HD12	1.61	0.81
10:J:61:ALA:CA	10:J:80:PHE:HE2	1.93	0.81
1:A:5:LYS:CB	1:A:48:GLU:CA	2.57	0.81
1:A:1012:LYS:CB	1:A:1071:ILE:CD1	2.58	0.81
1:A:1126:VAL:HG13	1:A:1131:SER:O	1.81	0.81
1:A:1146:GLN:HE21	13:M:9:ALA:HB1	1.41	0.81
1:A:1263:TYR:CE2	1:A:1280:TYR:O	2.34	0.81
1:A:1396:PRO:C	1:A:1400:TYR:CB	2.53	0.81
2:B:3271:ASP:OD1	2:B:3272:PRO:CD	2.19	0.81
3:C:132:GLU:OE2	3:C:133:PRO:HD2	1.80	0.81
3:C:2585:PHE:HB2	3:C:2932:SER:HB2	1.62	0.81
3:C:2800:PRO:CG	3:C:2818:VAL:HG21	2.09	0.81
4:D:80:PRO:HB3	15:O:105:VAL:HG13	1.62	0.81
5:E:310:LEU:CG	5:E:358:ARG:HH21	1.88	0.81
5:E:384:LEU:HG	5:E:417:TRP:HE1	1.42	0.81
1:A:1013:VAL:HG13	1:A:1076:LEU:HD13	1.62	0.81
1:A:3245:LYS:HB3	17:Q:124:ILE:HA	1.59	0.81
2:B:679:ARG:CB	5:E:186:PHE:CZ	2.64	0.81
2:B:854:ASN:HD21	3:C:167:ILE:HD13	1.45	0.81
3:C:760:THR:CB	3:C:827:ILE:HG21	2.11	0.81
4:D:208:TYR:CZ	9:I:100:ASN:HB2	2.16	0.81
5:E:22:ASP:HB2	14:N:91:THR:H	1.46	0.81
5:E:402:ILE:HG22	5:E:403:ILE:HG13	1.61	0.81
1:A:841:ILE:CD1	1:A:961:ALA:HB1	2.11	0.81
1:A:3236:ILE:CG2	1:A:3333:LEU:CD2	2.47	0.81
2:B:794:LEU:CB	2:B:797:PHE:HE2	1.94	0.81
2:B:1242:GLN:O	2:B:1251:SER:N	2.13	0.81
3:C:261:ILE:CG1	3:C:360:PRO:CB	2.54	0.81
3:C:2730:LEU:HD23	3:C:2738:ILE:HD13	1.63	0.81
4:D:90:ASP:OD1	13:M:32:LYS:HG3	1.79	0.81
8:H:51:SER:OG	18:R:32:LYS:CB	2.27	0.81
1:A:697:ARG:NH1	4:D:458:CYS:SG	2.54	0.81
1:A:857:ARG:HH21	5:E:207:SER:HA	1.44	0.81
1:A:3308:PRO:HG2	17:Q:58:SER:O	1.80	0.81
2:B:865:VAL:CG2	3:C:105:ASN:HD21	1.87	0.81
2:B:900:PHE:HE1	2:B:933:TRP:CH2	1.97	0.81
2:B:963:PHE:CZ	3:C:39:LEU:HA	2.16	0.81
2:B:993:TYR:OH	2:B:1067:ILE:CG2	2.28	0.81
3:C:321:ARG:HA	3:C:342:ALA:HB2	1.60	0.81
6:F:26:PHE:CD1	6:F:49:ALA:HB2	2.16	0.81
6:F:78:ARG:HD2	6:F:88:ILE:HG12	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:72:ILE:HA	15:O:97:ILE:HG12	1.61	0.81
1:A:594:PRO:HB3	1:A:609:TRP:CE3	2.16	0.81
1:A:1140:GLU:OE1	4:D:165:LYS:NZ	2.12	0.81
2:B:963:PHE:CZ	3:C:39:LEU:CD1	2.62	0.81
2:B:1139:LEU:HD21	2:B:1198:ILE:HG12	1.61	0.81
2:B:1559:MET:HG3	2:B:1577:ARG:NH2	1.90	0.81
2:B:1612:LEU:CD1	2:B:1637:CYS:SG	2.68	0.81
2:B:3230:ALA:CB	2:B:3342:ASN:OD1	2.27	0.81
5:E:16:ASN:N	15:O:132:GLU:CG	2.44	0.81
7:G:119:PRO:HG2	9:I:12:ILE:CB	2.09	0.81
2:B:789:LYS:HB3	2:B:839:LEU:CD1	2.10	0.81
2:B:899:LEU:CD1	2:B:900:PHE:HD1	1.93	0.81
2:B:963:PHE:CZ	3:C:39:LEU:HD13	2.16	0.81
2:B:1102:LEU:HA	2:B:1105:GLN:HB2	1.63	0.81
2:B:1528:LEU:CD2	2:B:1591:CYS:HB2	2.10	0.81
3:C:2698:LEU:HD23	3:C:2698:LEU:C	2.04	0.81
4:D:148:GLU:CG	4:D:149:PRO:HD2	2.04	0.81
1:A:473:LEU:C	1:A:478:LEU:CB	2.54	0.81
1:A:614:PHE:CG	1:A:644:LEU:HD22	2.15	0.81
1:A:944:LEU:HD11	1:A:1013:VAL:CG1	2.11	0.81
1:A:3212:VAL:HG23	1:A:3338:ALA:CB	2.11	0.81
1:A:3252:GLN:O	1:A:3255:GLU:CG	2.26	0.81
1:A:3313:SER:HA	1:A:3317:PHE:HD2	1.46	0.81
2:B:3268:THR:HG22	2:B:3269:LEU:CD1	2.10	0.81
4:D:180:ILE:HG21	10:J:75:TYR:CE1	2.15	0.81
8:H:56:THR:CG2	9:I:88:THR:OG1	2.29	0.81
1:A:1146:GLN:NE2	13:M:9:ALA:C	2.39	0.80
1:A:3250:PRO:HD3	17:Q:106:PHE:HD2	1.44	0.80
3:C:354:VAL:HG11	3:C:357:ILE:HD12	0.93	0.80
4:D:212:ILE:CG1	9:I:19:MET:HE1	2.11	0.80
5:E:48:ILE:HG13	12:L:23:PHE:HE2	1.44	0.80
1:A:1396:PRO:O	1:A:1400:TYR:CB	2.30	0.80
1:A:3251:ILE:CD1	17:Q:64:LYS:HB2	2.11	0.80
2:B:429:LEU:HG	2:B:489:PHE:HZ	1.43	0.80
2:B:448:LYS:HE2	2:B:513:ASP:OD2	1.81	0.80
2:B:1378:LEU:CB	2:B:1424:GLU:HG2	2.11	0.80
3:C:261:ILE:HG12	3:C:360:PRO:HB3	1.62	0.80
3:C:2734:PHE:HE2	3:C:2767:LYS:HG3	1.08	0.80
5:E:145:LEU:HD22	5:E:494:LEU:HG	1.63	0.80
6:F:51:LEU:CD2	7:G:116:ASP:HB2	2.11	0.80
15:O:38:ILE:HG22	15:O:67:LEU:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:PHE:CZ	1:A:693:MET:SD	2.74	0.80
1:A:760:ASP:OD2	1:A:764:ARG:CD	2.28	0.80
1:A:1429:ILE:HG22	1:A:1490:PHE:CZ	2.16	0.80
2:B:1511:VAL:CA	2:B:1570:VAL:HG22	1.95	0.80
4:D:91:TYR:CZ	13:M:80:LEU:CD1	2.63	0.80
4:D:378:ARG:HD3	5:E:137:THR:O	1.81	0.80
4:D:585:VAL:CG1	4:D:588:PRO:HD3	2.11	0.80
5:E:46:ASN:C	12:L:88:PHE:CE1	2.59	0.80
2:B:718:ILE:HD13	2:B:770:LYS:HA	1.64	0.80
2:B:913:PHE:HE2	2:B:1078:ILE:HD13	1.44	0.80
2:B:1107:ARG:HH21	2:B:1172:LYS:HE2	1.47	0.80
3:C:29:VAL:HG22	3:C:92:ALA:O	1.82	0.80
3:C:261:ILE:CG2	3:C:385:ASP:CB	2.58	0.80
3:C:2708:GLN:CD	3:C:2813:ILE:CD1	2.53	0.80
3:C:2740:ILE:HG13	3:C:2744:LYS:CB	2.03	0.80
4:D:70:MET:HE2	5:E:13:GLU:HB3	1.59	0.80
4:D:613:LEU:O	4:D:613:LEU:HD12	1.81	0.80
5:E:164:VAL:HG22	5:E:181:TYR:CD1	2.16	0.80
1:A:397:ILE:O	1:A:489:LYS:CB	2.30	0.80
1:A:550:HIS:CB	4:D:655:LEU:HA	2.09	0.80
1:A:700:LYS:CE	4:D:456:LEU:N	2.39	0.80
5:E:80:TRP:CE3	5:E:81:PRO:HD2	2.16	0.80
6:F:48:ILE:HD11	6:F:98:LEU:HD21	1.58	0.80
10:J:61:ALA:CB	10:J:80:PHE:CZ	2.56	0.80
1:A:611:ARG:NH2	1:A:705:GLN:HB2	1.96	0.80
1:A:801:ILE:HD12	1:A:862:LEU:HD23	1.64	0.80
1:A:805:ARG:NH1	5:E:149:THR:HG22	1.96	0.80
1:A:3248:LEU:HB3	17:Q:81:ARG:N	1.95	0.80
2:B:444:LEU:HD22	5:E:515:LYS:HE2	1.62	0.80
2:B:966:LYS:O	3:C:344:ASN:CB	2.30	0.80
2:B:3264:ASN:CG	2:B:3303:GLU:OE1	2.24	0.80
3:C:143:PRO:CD	3:C:187:TRP:NE1	2.44	0.80
3:C:771:GLU:CA	3:C:838:TRP:HH2	1.94	0.80
4:D:91:TYR:CZ	13:M:80:LEU:HB2	2.16	0.80
4:D:111:MET:CE	15:O:90:ILE:HB	2.10	0.80
4:D:195:ILE:CD1	9:I:94:LEU:CD2	2.59	0.80
1:A:761:LEU:HD21	1:A:874:HIS:HE1	1.41	0.80
1:A:3270:LYS:HZ2	17:Q:60:ASN:CB	1.93	0.80
2:B:744:MET:HE1	2:B:772:ILE:HG23	1.62	0.80
2:B:861:ASP:OD2	3:C:171:ARG:HG2	1.82	0.80
5:E:385:SER:OG	5:E:394:TRP:CZ3	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:517:LYS:NZ	5:E:517:LYS:HB3	1.96	0.80
6:F:50:ALA:CB	8:H:83:GLN:CG	2.60	0.80
14:N:116:ALA:C	15:O:131:PHE:CE1	2.59	0.80
1:A:717:LEU:HD21	4:D:454:ILE:C	2.07	0.80
1:A:1012:LYS:NZ	1:A:1072:GLY:CA	2.44	0.80
1:A:1013:VAL:HA	1:A:1016:PHE:HE1	1.45	0.80
2:B:57:ASN:CA	2:B:70:LYS:O	2.25	0.80
2:B:551:TYR:HD2	2:B:622:VAL:HG11	1.43	0.80
2:B:791:HIS:HE1	2:B:866:ILE:HD13	1.42	0.80
2:B:1466:THR:HB	2:B:1522:GLN:OE1	1.82	0.80
3:C:225:GLN:OE1	3:C:225:GLN:N	2.14	0.80
4:D:90:ASP:CG	13:M:32:LYS:CG	2.47	0.80
4:D:105:MET:SD	14:N:48:GLN:HB2	2.22	0.80
4:D:367:LEU:HG	4:D:371:THR:HG1	1.39	0.80
4:D:569:TYR:OH	4:D:578:LYS:CG	2.27	0.80
4:D:584:ILE:HG21	4:D:614:VAL:HG21	1.61	0.80
8:H:64:ASN:HB2	9:I:81:GLU:CB	2.05	0.80
1:A:121:GLY:HA3	2:B:105:ALA:O	1.82	0.80
1:A:597:VAL:CB	4:D:502:ALA:CB	2.60	0.80
2:B:1467:PHE:CZ	2:B:1563:VAL:HG11	2.17	0.80
3:C:2708:GLN:OE1	3:C:2813:ILE:HD11	1.81	0.80
4:D:184:GLY:HA3	11:K:69:TYR:CD1	2.15	0.80
4:D:208:TYR:CE1	9:I:22:LYS:HB2	2.17	0.80
4:D:353:LEU:HG	4:D:363:LEU:HD21	1.64	0.80
4:D:367:LEU:HD12	4:D:368:TYR:O	1.82	0.80
12:L:84:CYS:HB3	13:M:56:ILE:HA	1.62	0.80
1:A:1274:GLY:HA3	4:D:160:GLN:OE1	1.81	0.80
1:A:3229:PRO:HB2	1:A:3233:ILE:HG23	1.62	0.80
2:B:939:ASN:O	3:C:283:THR:OG1	1.98	0.80
2:B:1208:LYS:HE3	2:B:1208:LYS:CA	2.12	0.80
2:B:1573:CYS:HA	2:B:1577:ARG:HD2	1.64	0.80
2:B:3178:VAL:HG11	2:B:3395:LEU:HD21	0.80	0.80
3:C:2592:LYS:HD2	3:C:2928:VAL:HG22	1.62	0.80
4:D:367:LEU:HD11	4:D:371:THR:CG2	2.11	0.80
4:D:590:LEU:CD2	4:D:604:VAL:HG11	2.12	0.80
1:A:1597:LYS:NZ	1:A:1962:ILE:CD1	2.45	0.79
1:A:3046:PHE:CE2	1:A:3104:ILE:HD11	2.17	0.79
1:A:3307:GLU:HG2	17:Q:30:LYS:HA	0.82	0.79
2:B:555:LEU:HD21	2:B:625:LEU:HD23	1.64	0.79
2:B:762:ILE:HG22	2:B:766:ILE:CG1	2.09	0.79
4:D:177:ASN:HD21	13:M:60:ASN:HB3	1.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:288:VAL:HG21	5:E:335:ILE:HD13	1.64	0.79
1:A:597:VAL:HG11	4:D:502:ALA:HB2	1.61	0.79
1:A:937:LEU:CD1	1:A:1081:ILE:HG12	2.12	0.79
2:B:10:PRO:HA	2:B:25:GLN:O	1.81	0.79
3:C:196:PRO:N	3:C:239:TRP:CZ2	2.46	0.79
3:C:2636:LYS:O	3:C:2643:GLU:OE2	1.99	0.79
4:D:364:ALA:HB1	4:D:414:PHE:HE1	1.47	0.79
4:D:528:TRP:NE1	4:D:535:GLN:CB	2.45	0.79
15:O:30:TYR:N	15:O:31:PRO:CD	2.46	0.79
1:A:590:GLN:HG3	4:D:523:TRP:CZ3	2.18	0.79
1:A:3103:TYR:CE2	1:A:3444:VAL:CG2	2.42	0.79
1:A:3251:ILE:CD1	17:Q:64:LYS:CB	2.60	0.79
1:A:3308:PRO:CG	17:Q:57:LEU:HA	2.12	0.79
2:B:520:ARG:NH1	2:B:550:MET:CG	2.43	0.79
2:B:520:ARG:HH12	2:B:550:MET:HG3	1.44	0.79
2:B:961:SER:O	3:C:345:TRP:CZ2	2.35	0.79
2:B:3133:ILE:HG12	2:B:3440:LEU:HD12	1.64	0.79
4:D:113:GLY:CA	15:O:92:GLY:O	2.28	0.79
4:D:417:ILE:HD12	4:D:474:VAL:HG23	1.64	0.79
6:F:40:ILE:HB	6:F:44:LYS:HB2	1.64	0.79
7:G:64:LEU:HB3	7:G:76:TYR:CE2	2.18	0.79
15:O:30:TYR:OH	15:O:126:VAL:CG1	2.29	0.79
1:A:3298:ILE:HA	1:A:3343:HIS:HE1	1.46	0.79
1:A:3308:PRO:CG	17:Q:58:SER:N	2.45	0.79
2:B:762:ILE:CG2	2:B:766:ILE:CG1	2.61	0.79
2:B:1237:ARG:CD	2:B:1260:ALA:HA	2.12	0.79
2:B:1514:VAL:HG11	2:B:1570:VAL:HA	1.63	0.79
4:D:567:GLN:CD	4:D:578:LYS:CD	2.55	0.79
5:E:392:LYS:HB2	5:E:394:TRP:CH2	2.17	0.79
6:F:11:LEU:CD2	6:F:23:TYR:CD1	2.63	0.79
8:H:60:ILE:CD1	9:I:78:ILE:HG12	2.11	0.79
1:A:601:PRO:CG	1:A:698:GLU:HG2	2.12	0.79
1:A:686:VAL:HG23	1:A:731:LEU:HD23	1.58	0.79
1:A:857:ARG:HH11	5:E:200:TRP:HE1	1.21	0.79
1:A:1642:ALA:HB2	1:A:1652:GLN:HB2	1.61	0.79
1:A:3446:ASN:HA	1:A:3488:LEU:CD2	2.13	0.79
2:B:2333:PRO:HB3	20:B:5403:ATP:N1	1.96	0.79
3:C:2711:SER:HB2	3:C:2755:LEU:HD21	1.65	0.79
5:E:20:PHE:CZ	14:N:89:GLN:HA	2.16	0.79
5:E:263:GLU:HB3	5:E:264:PRO:CD	2.12	0.79
5:E:527:GLU:HA	5:E:530:LYS:HE3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:107:THR:HG21	7:G:137:VAL:HG11	1.65	0.79
1:A:751:LEU:HD22	1:A:866:ILE:HD13	1.64	0.79
1:A:1126:VAL:HG21	1:A:1135:VAL:CG2	2.10	0.79
2:B:794:LEU:C	2:B:797:PHE:CD2	2.60	0.79
2:B:952:PRO:CD	3:C:223:THR:HG22	2.13	0.79
3:C:10:LEU:HD23	3:C:65:ASN:C	2.06	0.79
3:C:99:GLY:HA3	3:C:149:HIS:NE2	1.97	0.79
4:D:265:ARG:CD	5:E:125:GLN:HA	2.12	0.79
4:D:567:GLN:CG	4:D:578:LYS:HD2	2.12	0.79
5:E:59:HIS:CD2	10:J:90:HIS:NE2	2.51	0.79
6:F:26:PHE:CE1	6:F:49:ALA:HA	2.16	0.79
10:J:95:PHE:CZ	10:J:106:LEU:CD1	2.63	0.79
12:L:42:ILE:HD12	12:L:98:LEU:HD12	1.64	0.79
1:A:891:PHE:HD1	1:A:972:TRP:CE3	1.97	0.79
1:A:907:ASN:O	1:A:911:TYR:HD2	1.61	0.79
1:A:3345:LYS:HE3	1:A:3345:LYS:CA	2.12	0.79
2:B:791:HIS:CE1	2:B:866:ILE:CD1	2.64	0.79
2:B:969:LEU:CD1	3:C:343:ASN:CG	2.55	0.79
4:D:83:PRO:HG3	10:J:92:LYS:HD2	1.64	0.79
5:E:117:GLU:CB	6:F:17:LEU:HD11	2.13	0.79
8:H:61:VAL:O	9:I:84:ALA:N	2.15	0.79
1:A:590:GLN:HB3	1:A:609:TRP:CZ2	2.17	0.79
1:A:704:ARG:HE	4:D:457:ALA:CB	1.94	0.79
1:A:3297:SER:O	1:A:3343:HIS:CE1	2.36	0.79
2:B:501:ARG:CZ	4:D:491:GLN:CD	2.53	0.79
4:D:386:TYR:CG	4:D:433:LEU:HD11	2.18	0.79
6:F:14:LEU:CD2	6:F:23:TYR:CG	2.53	0.79
1:A:1088:TRP:O	1:A:1092:TRP:HD1	1.66	0.79
2:B:60:ASN:CB	2:B:81:ILE:CB	2.61	0.79
2:B:603:ILE:HD11	2:B:626:TYR:CD1	2.18	0.79
2:B:794:LEU:HD11	2:B:867:VAL:HA	1.63	0.79
2:B:801:ILE:CG1	2:B:878:ALA:CA	2.59	0.79
2:B:963:PHE:CZ	3:C:39:LEU:CA	2.65	0.79
2:B:1212:ILE:HG22	2:B:1213:PRO:CD	2.13	0.79
2:B:3136:TYR:HE1	2:B:3436:ASN:HD22	1.26	0.79
3:C:2706:PHE:HD1	3:C:2761:PRO:HG3	1.46	0.79
6:F:81:THR:HG21	7:G:114:VAL:HG23	1.61	0.79
18:R:82:ALA:HA	18:R:83:ASN:N	1.98	0.79
1:A:797:ASN:OD1	5:E:450:HIS:ND1	2.16	0.79
1:A:1126:VAL:HG22	1:A:1131:SER:OG	1.83	0.79
1:A:1396:PRO:CB	1:A:1400:TYR:CB	2.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3304:GLU:HA	17:Q:55:LEU:O	1.83	0.79
1:A:3308:PRO:CD	17:Q:57:LEU:N	2.35	0.79
2:B:875:ILE:HG23	2:B:937:PHE:HB3	1.64	0.79
3:C:62:LEU:HD12	3:C:62:LEU:O	1.83	0.79
3:C:176:ASP:CG	3:C:189:ARG:HH11	1.90	0.79
5:E:43:ARG:O	12:L:90:ALA:CB	2.31	0.79
7:G:58:SER:OG	7:G:62:ASP:HB2	1.82	0.79
1:A:670:LEU:CA	1:A:692:ILE:CD1	2.60	0.78
1:A:723:PHE:HD1	1:A:772:TRP:HZ2	1.29	0.78
1:A:1013:VAL:HA	1:A:1016:PHE:CE1	2.18	0.78
1:A:3311:ASN:HD21	17:Q:31:LEU:HA	1.47	0.78
2:B:595:LEU:CD2	5:E:389:TRP:CZ2	2.66	0.78
2:B:963:PHE:HE2	3:C:51:ILE:CG2	1.92	0.78
2:B:1139:LEU:CD2	2:B:1198:ILE:CG1	2.61	0.78
8:H:88:LEU:O	8:H:88:LEU:HD12	1.82	0.78
1:A:1504:VAL:HG13	1:A:1565:CYS:SG	2.23	0.78
5:E:366:HIS:HE1	5:E:394:TRP:HH2	1.32	0.78
12:L:9:GLY:O	12:L:13:GLU:CG	2.31	0.78
12:L:77:ILE:HA	13:M:63:SER:CB	2.13	0.78
14:N:18:ASP:OD1	14:N:101:TYR:OH	2.00	0.78
15:O:30:TYR:H	15:O:31:PRO:CD	1.94	0.78
16:P:63:ARG:CB	16:P:119:PRO:CB	2.61	0.78
1:A:599:ASN:OD1	4:D:398:PRO:HG2	1.83	0.78
1:A:1430:ARG:CG	1:A:1490:PHE:CD2	2.65	0.78
2:B:966:LYS:CB	3:C:344:ASN:CA	2.55	0.78
2:B:1237:ARG:HD3	2:B:1260:ALA:CA	2.13	0.78
3:C:111:THR:HG21	3:C:187:TRP:CZ3	2.19	0.78
4:D:184:GLY:HA2	11:K:69:TYR:HD1	1.48	0.78
4:D:262:HIS:HA	5:E:125:GLN:NE2	1.99	0.78
6:F:50:ALA:HB2	8:H:83:GLN:HG3	1.65	0.78
6:F:84:SER:CB	6:F:106:ALA:HB2	2.13	0.78
1:A:1126:VAL:CB	1:A:1131:SER:OG	2.31	0.78
1:A:3248:LEU:CD1	17:Q:81:ARG:H	1.96	0.78
2:B:99:LEU:O	2:B:101:ASN:N	2.17	0.78
2:B:3302:ILE:CG2	2:B:3303:GLU:H	1.95	0.78
2:B:3445:LYS:CB	2:B:3487:PRO:HB3	2.14	0.78
3:C:2701:ILE:HD12	3:C:2704:LYS:HE3	1.64	0.78
3:C:2740:ILE:HG21	3:C:2744:LYS:CG	2.13	0.78
3:C:2745:LYS:CD	3:C:2749:VAL:HG11	2.13	0.78
4:D:175:THR:OG1	13:M:60:ASN:C	2.27	0.78
4:D:360:ALA:CB	5:E:133:PHE:CZ	2.57	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:670:LEU:HD21	1:A:772:TRP:CD1	2.17	0.78
2:B:730:LEU:CD1	2:B:787:LEU:HD12	2.13	0.78
2:B:993:TYR:OH	2:B:1067:ILE:HG23	1.84	0.78
2:B:3139:GLY:HA2	2:B:3695:LEU:HD22	1.65	0.78
4:D:517:ILE:HD12	4:D:527:ILE:CG1	2.12	0.78
4:D:553:TYR:HE1	4:D:595:PHE:CZ	2.02	0.78
1:A:552:PHE:HA	1:A:568:ARG:HH12	1.47	0.78
1:A:601:PRO:CB	1:A:698:GLU:CD	2.53	0.78
1:A:751:LEU:CD2	1:A:866:ILE:HD13	2.14	0.78
1:A:935:VAL:CG2	1:A:944:LEU:HD21	2.01	0.78
1:A:1020:PHE:CA	1:A:1023:PHE:CE2	2.60	0.78
1:A:1031:ILE:HA	1:A:1092:TRP:CZ3	2.18	0.78
1:A:1161:SER:O	11:K:15:ASN:HB3	1.84	0.78
2:B:938:PHE:CE2	3:C:343:ASN:ND2	2.51	0.78
2:B:963:PHE:HE2	3:C:51:ILE:HG23	1.47	0.78
2:B:1109:THR:C	2:B:1113:LEU:HG	2.08	0.78
2:B:1234:GLU:OE1	2:B:1305:LEU:CA	2.26	0.78
2:B:1238:LYS:NZ	2:B:1308:LEU:HA	1.98	0.78
3:C:165:GLY:N	3:C:174:PHE:CE2	2.50	0.78
3:C:253:LEU:HD12	3:C:253:LEU:O	1.83	0.78
3:C:2708:GLN:CG	3:C:2809:ALA:HB1	2.13	0.78
4:D:294:GLN:CD	4:D:297:LYS:HE2	2.04	0.78
1:A:598:ARG:H	4:D:460:LEU:HD13	1.48	0.78
1:A:598:ARG:CG	4:D:504:TYR:HD1	1.96	0.78
1:A:3446:ASN:HA	1:A:3488:LEU:HD21	1.64	0.78
2:B:598:ARG:CB	5:E:367:LEU:HD13	2.12	0.78
2:B:3301:ASN:HB3	2:B:3351:LYS:HZ3	1.48	0.78
3:C:159:TYR:HB3	3:C:177:LEU:HD11	1.66	0.78
3:C:2800:PRO:HB3	3:C:2818:VAL:CG2	2.14	0.78
4:D:241:PHE:CZ	7:G:78:ILE:HD12	2.18	0.78
4:D:543:MET:CE	4:D:563:MET:CE	2.41	0.78
12:L:86:LEU:HD12	13:M:54:ASN:CB	2.13	0.78
1:A:576:TYR:HD1	1:A:620:PRO:O	1.63	0.78
1:A:732:TYR:CD1	4:D:391:ARG:CG	2.59	0.78
1:A:1121:LYS:CD	1:A:1138:THR:HG22	2.12	0.78
2:B:888:PRO:O	2:B:891:ILE:CG2	2.32	0.78
3:C:53:PRO:HG2	3:C:81:PRO:HB3	1.65	0.78
4:D:105:MET:HE1	14:N:48:GLN:CA	2.12	0.78
4:D:201:GLN:NE2	9:I:102:ASN:CB	2.46	0.78
1:A:597:VAL:HG11	4:D:477:GLU:CB	2.13	0.78
1:A:607:ILE:HD11	1:A:655:PHE:HA	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:676:SER:O	2:B:679:ARG:HG2	1.84	0.78
2:B:679:ARG:O	2:B:683:GLU:CG	2.30	0.78
2:B:736:LEU:HA	2:B:855:SER:CB	2.13	0.78
2:B:963:PHE:HZ	3:C:39:LEU:CA	1.95	0.78
2:B:1081:GLN:HB3	2:B:1082:PRO:HD3	1.66	0.78
2:B:1129:ALA:HA	2:B:1132:GLU:CD	2.09	0.78
3:C:2734:PHE:HE2	3:C:2767:LYS:CE	1.97	0.78
4:D:184:GLY:HA3	11:K:69:TYR:HD1	1.44	0.78
4:D:285:PRO:HG3	4:D:584:ILE:CG2	2.12	0.78
4:D:351:MET:HE2	4:D:351:MET:CA	2.13	0.78
4:D:386:TYR:CD1	4:D:433:LEU:HD11	2.18	0.78
4:D:640:LYS:HE2	4:D:640:LYS:HA	1.66	0.78
5:E:42:GLN:HE22	12:L:91:ASN:ND2	1.82	0.78
5:E:112:LEU:O	5:E:116:VAL:HG23	1.83	0.78
8:H:57:TRP:CZ3	8:H:88:LEU:HD13	2.19	0.78
10:J:19:LYS:HG2	10:J:28:TRP:CE3	2.18	0.78
1:A:737:TYR:CD1	1:A:759:LEU:HD23	2.19	0.78
1:A:936:GLN:HA	1:A:1081:ILE:CG1	2.08	0.78
1:A:1146:GLN:HG2	13:M:9:ALA:HB2	1.47	0.78
1:A:1632:ASP:CB	1:A:1892:PHE:CE1	2.63	0.78
1:A:3257:VAL:CB	1:A:3266:VAL:CG1	2.35	0.78
1:A:3347:LYS:O	1:A:3351:PRO:HD3	1.82	0.78
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ2	1.49	0.78
2:B:1607:PRO:HB2	2:B:1946:SER:OG	1.83	0.78
2:B:2334:TYR:CA	20:B:5403:ATP:C2	2.66	0.78
3:C:1983:THR:CB	19:C:4305:ADP:HN62	1.96	0.78
5:E:23:THR:HG22	14:N:88:TYR:HD1	1.48	0.78
10:J:38:GLU:CG	15:O:29:PHE:CZ	2.67	0.78
15:O:22:LEU:CD1	15:O:23:ASN:ND2	2.45	0.78
1:A:732:TYR:CD2	4:D:391:ARG:NE	2.44	0.77
1:A:796:ILE:C	5:E:450:HIS:NE2	2.42	0.77
2:B:2190:LYS:HE3	20:B:5403:ATP:O3G	1.83	0.77
2:B:3119:LYS:NZ	2:B:3119:LYS:HB3	1.99	0.77
2:B:3203:ALA:HB2	2:B:3370:LYS:CB	2.12	0.77
4:D:248:MET:CE	7:G:147:VAL:CG2	2.62	0.77
4:D:299:VAL:HG11	4:D:605:GLY:HA3	1.66	0.77
1:A:797:ASN:CG	5:E:450:HIS:CE1	2.62	0.77
1:A:971:ASN:HB3	1:A:983:ALA:CA	2.14	0.77
1:A:3249:ILE:HG12	1:A:3273:TYR:CA	2.05	0.77
2:B:679:ARG:HB3	5:E:186:PHE:CZ	2.19	0.77
2:B:1117:ILE:O	2:B:1120:THR:OG1	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:PRO:CG	3:C:81:PRO:CB	2.62	0.77
4:D:426:TRP:CZ3	4:D:435:PRO:HB3	2.19	0.77
6:F:26:PHE:CD1	6:F:49:ALA:CB	2.67	0.77
1:A:1143:ARG:HD2	4:D:169:ASN:CG	2.10	0.77
1:A:3251:ILE:C	17:Q:39:GLU:O	2.26	0.77
1:A:3307:GLU:OE2	17:Q:55:LEU:C	2.27	0.77
2:B:581:ASN:OD1	2:B:581:ASN:O	2.01	0.77
3:C:2784:ASN:O	3:C:2787:ILE:CG2	2.28	0.77
4:D:66:LEU:HD22	4:D:66:LEU:H	1.48	0.77
4:D:517:ILE:CD1	4:D:527:ILE:HG12	2.13	0.77
8:H:66:GLY:N	9:I:56:ILE:HG21	1.99	0.77
1:A:1101:HIS:CA	1:A:1163:LEU:CD1	2.62	0.77
2:B:528:GLU:CD	5:E:526:GLN:NE2	2.41	0.77
2:B:969:LEU:CD1	3:C:343:ASN:ND2	2.46	0.77
2:B:1378:LEU:CA	2:B:1424:GLU:HG2	2.13	0.77
2:B:1610:TYR:CD2	2:B:1942:GLY:HA2	2.20	0.77
3:C:354:VAL:HG22	3:C:357:ILE:H	1.49	0.77
1:A:1136:MET:HE2	1:A:1136:MET:CA	2.14	0.77
1:A:3300:GLU:HB3	17:Q:76:ILE:CA	2.14	0.77
1:A:3305:LEU:HD11	17:Q:102:LEU:CA	2.10	0.77
2:B:1139:LEU:CD2	2:B:1198:ILE:HG12	2.14	0.77
2:B:1456:PHE:CE1	2:B:1458:PHE:CZ	2.70	0.77
2:B:1466:THR:HA	2:B:1560:MET:HE2	1.67	0.77
3:C:99:GLY:CA	3:C:149:HIS:HE1	1.95	0.77
4:D:81:GLN:OE1	15:O:110:TYR:CZ	2.37	0.77
11:K:18:MET:HE3	11:K:18:MET:HA	1.66	0.77
1:A:332:PRO:CA	1:A:380:ARG:CB	2.62	0.77
1:A:674:LEU:HD12	1:A:675:ILE:HG23	1.65	0.77
1:A:3261:LYS:HG3	1:A:3324:LYS:HE3	1.67	0.77
2:B:794:LEU:HA	2:B:797:PHE:HD2	1.42	0.77
2:B:899:LEU:HD11	2:B:900:PHE:HD1	1.48	0.77
2:B:969:LEU:HD13	3:C:343:ASN:HB2	0.78	0.77
3:C:208:MET:HB2	3:C:296:ILE:HD13	1.65	0.77
4:D:395:HIS:CD2	4:D:399:VAL:CG1	2.65	0.77
5:E:48:ILE:HB	12:L:88:PHE:CE2	2.20	0.77
5:E:80:TRP:O	8:H:80:TYR:CE1	2.37	0.77
10:J:77:HIS:CG	11:K:70:VAL:CG2	2.67	0.77
1:A:113:GLY:O	1:A:116:ASN:N	2.17	0.77
1:A:590:GLN:CG	4:D:523:TRP:HZ3	1.97	0.77
1:A:3117:PHE:CD2	1:A:3429:TRP:CE3	2.72	0.77
1:A:3293:PHE:CZ	1:A:3335:TRP:HH2	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1139:LEU:HD21	2:B:1198:ILE:CD1	2.13	0.77
2:B:1607:PRO:HB3	2:B:1946:SER:CB	2.06	0.77
2:B:3118:TYR:OH	2:B:3452:LEU:HB2	1.85	0.77
3:C:24:HIS:CD2	3:C:325:SER:HG	1.98	0.77
3:C:165:GLY:C	3:C:174:PHE:HZ	1.87	0.77
3:C:2734:PHE:CE2	3:C:2767:LYS:HD2	2.04	0.77
4:D:297:LYS:HZ1	4:D:328:LEU:HB2	1.45	0.77
6:F:26:PHE:CE1	6:F:49:ALA:CA	2.67	0.77
1:A:2872:GLY:HA2	19:A:4703:ADP:O1A	1.85	0.77
3:C:379:LYS:HA	3:C:419:GLU:HA	1.66	0.77
3:C:2723:PHE:CZ	3:C:2749:VAL:HG11	2.18	0.77
4:D:238:SER:O	4:D:239:THR:N	2.17	0.77
4:D:595:PHE:HD1	4:D:602:LEU:CD2	1.92	0.77
5:E:259:ASN:HD22	5:E:299:GLY:N	1.81	0.77
1:A:847:PHE:HZ	1:A:851:LYS:NZ	1.82	0.77
1:A:3242:VAL:CG1	17:Q:80:SER:CB	2.61	0.77
2:B:356:GLN:CB	2:B:419:PHE:CE1	2.68	0.77
2:B:555:LEU:CG	2:B:625:LEU:CD2	2.50	0.77
2:B:741:ILE:HG22	2:B:745:GLU:OE2	1.84	0.77
2:B:3261:ILE:HG22	2:B:3306:ILE:CG2	2.13	0.77
8:H:32:ILE:HD11	8:H:81:VAL:HG11	1.67	0.77
14:N:25:PHE:CE1	14:N:103:ILE:HG23	1.86	0.77
1:A:1013:VAL:HG13	1:A:1076:LEU:HD11	1.64	0.77
2:B:532:THR:CG2	2:B:536:ILE:HG13	2.13	0.77
2:B:952:PRO:CG	3:C:222:PHE:C	2.52	0.77
2:B:1604:LYS:O	2:B:1945:GLN:OE1	2.02	0.77
2:B:3231:VAL:CG2	2:B:3342:ASN:HB3	2.15	0.77
3:C:85:HIS:H	3:C:85:HIS:CD2	2.02	0.77
4:D:70:MET:HE2	5:E:13:GLU:HG2	1.66	0.77
5:E:15:ASN:C	15:O:132:GLU:HG2	2.10	0.77
10:J:35:ASP:HB2	15:O:32:SER:HB3	1.65	0.77
1:A:872:ASP:OD1	1:A:873:PRO:CD	2.33	0.76
1:A:3099:TYR:CD1	1:A:3447:VAL:HG12	2.21	0.76
1:A:3350:LYS:CB	1:A:3351:PRO:HD3	2.15	0.76
2:B:726:LYS:C	2:B:726:LYS:HD3	2.11	0.76
2:B:1160:ILE:HG21	2:B:1180:GLU:OE2	1.85	0.76
2:B:1444:LEU:O	2:B:1448:GLU:HG3	1.85	0.76
3:C:29:VAL:CG1	3:C:95:MET:SD	2.72	0.76
3:C:113:ILE:HD13	3:C:185:PHE:CZ	2.20	0.76
3:C:250:LYS:HG3	3:C:273:VAL:CG1	2.15	0.76
5:E:261:HIS:HE1	5:E:283:SER:HB3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:806:ILE:HD11	1:A:890:TYR:CD2	2.20	0.76
1:A:3236:ILE:HG21	1:A:3333:LEU:N	2.00	0.76
2:B:409:SER:C	2:B:413:PHE:HB2	2.09	0.76
2:B:3164:VAL:HG12	2:B:3409:ALA:HB2	1.67	0.76
3:C:2685:ASP:O	3:C:2689:PRO:CD	2.30	0.76
3:C:2742:LYS:HE2	3:C:2785:VAL:HG21	1.65	0.76
3:C:2754:SER:HA	3:C:2757:LEU:HD12	1.67	0.76
3:C:2774:VAL:HG12	3:C:2780:VAL:HG21	1.68	0.76
4:D:116:ILE:HD11	5:E:43:ARG:NH1	2.00	0.76
4:D:367:LEU:HD21	4:D:371:THR:OG1	1.84	0.76
14:N:85:ILE:HG21	14:N:98:ILE:HD12	1.55	0.76
1:A:971:ASN:CB	1:A:983:ALA:HA	2.15	0.76
2:B:53:ILE:CB	2:B:90:ALA:HB2	2.16	0.76
2:B:578:LEU:H	2:B:578:LEU:HD12	1.48	0.76
2:B:952:PRO:CD	3:C:223:THR:CG2	2.63	0.76
3:C:180:LEU:HD22	3:C:187:TRP:CE3	2.20	0.76
3:C:217:PHE:CE1	3:C:246:HIS:HB2	2.21	0.76
1:A:53:ILE:HA	1:A:54:PHE:N	2.00	0.76
1:A:119:ILE:O	2:B:107:ASP:O	2.03	0.76
1:A:397:ILE:CB	1:A:489:LYS:O	2.33	0.76
1:A:797:ASN:OD1	5:E:450:HIS:NE2	2.16	0.76
1:A:933:VAL:HG22	1:A:951:ILE:HD11	1.68	0.76
1:A:3244:PHE:C	17:Q:125:GLY:HA3	2.10	0.76
2:B:533:ARG:HG2	2:B:534:PRO:CD	2.13	0.76
3:C:1333:VAL:HG12	3:C:1340:GLN:HE21	1.51	0.76
4:D:236:MET:CB	7:G:143:PHE:CZ	2.68	0.76
5:E:100:GLU:OE1	6:F:34:LYS:NZ	2.15	0.76
14:N:73:LEU:O	15:O:95:LEU:HB2	1.86	0.76
1:A:801:ILE:HB	1:A:862:LEU:CD2	2.15	0.76
1:A:1012:LYS:HZ1	1:A:1072:GLY:H	0.77	0.76
2:B:501:ARG:NH2	4:D:491:GLN:CD	2.43	0.76
2:B:966:LYS:HD2	3:C:345:TRP:CG	2.16	0.76
3:C:2800:PRO:CD	3:C:2801:GLU:N	2.42	0.76
5:E:259:ASN:ND2	5:E:298:ALA:C	2.44	0.76
5:E:391:CYS:SG	5:E:427:LEU:CD1	2.74	0.76
13:M:7:VAL:HG12	13:M:75:PHE:CB	2.16	0.76
15:O:22:LEU:HD11	15:O:23:ASN:CG	2.10	0.76
1:A:1030:SER:O	1:A:1092:TRP:CZ2	2.38	0.76
1:A:1048:TYR:HD1	1:A:1100:LEU:HD12	1.50	0.76
1:A:1595:LYS:HD2	1:A:1681:GLU:OE1	1.86	0.76
2:B:731:PRO:O	2:B:735:PRO:CD	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:963:PHE:HD2	3:C:51:ILE:HG21	1.48	0.76
2:B:1068:LYS:CB	2:B:1084:LYS:HE2	2.15	0.76
2:B:1455:VAL:HG12	2:B:1456:PHE:N	1.99	0.76
2:B:1465:LYS:HD2	2:B:1561:SER:HA	1.68	0.76
3:C:1014:ILE:HD11	3:C:1037:LEU:HD12	1.67	0.76
3:C:2708:GLN:HE22	3:C:2813:ILE:HG13	1.48	0.76
3:C:2793:LEU:CA	3:C:2796:PRO:CG	2.63	0.76
4:D:68:GLU:HG2	5:E:12:LYS:HA	1.66	0.76
5:E:48:ILE:H	12:L:88:PHE:HE2	1.15	0.76
2:B:960:ARG:CD	3:C:287:PHE:HZ	1.88	0.76
2:B:1237:ARG:NH2	2:B:1262:ASP:CB	2.49	0.76
2:B:1329:PRO:CB	2:B:1412:PHE:CB	2.64	0.76
2:B:2333:PRO:CB	20:B:5403:ATP:C6	2.67	0.76
2:B:3300:GLU:CD	2:B:3354:LYS:NZ	2.42	0.76
5:E:517:LYS:HB3	5:E:517:LYS:HZ2	1.51	0.76
1:A:598:ARG:HB2	4:D:460:LEU:CG	2.16	0.76
1:A:717:LEU:C	4:D:454:ILE:HD11	2.11	0.76
2:B:444:LEU:HA	5:E:515:LYS:CD	2.13	0.76
5:E:261:HIS:HD1	5:E:283:SER:HG	1.12	0.76
1:A:700:LYS:HE2	4:D:455:GLY:C	2.11	0.76
1:A:1031:ILE:HA	1:A:1092:TRP:CH2	2.21	0.76
1:A:1276:GLN:NE2	4:D:153:HIS:HA	2.00	0.76
2:B:718:ILE:CD1	2:B:773:VAL:HB	2.12	0.76
2:B:745:GLU:O	2:B:749:LYS:HG3	1.85	0.76
2:B:1467:PHE:CB	2:B:1470:LEU:CD1	2.40	0.76
1:A:763:LEU:HD22	1:A:780:TYR:OH	1.86	0.76
1:A:1140:GLU:OE2	4:D:165:LYS:CD	2.33	0.76
1:A:1458:MET:SD	1:A:1548:TRP:CD1	2.78	0.76
1:A:3110:LEU:CD1	1:A:3443:LEU:HD22	2.14	0.76
2:B:429:LEU:HD11	2:B:489:PHE:CZ	2.13	0.76
2:B:957:GLN:NE2	3:C:322:GLU:OE2	2.19	0.76
2:B:1458:PHE:CE1	2:B:1560:MET:HE3	2.21	0.76
2:B:1467:PHE:HB3	2:B:1470:LEU:CG	2.15	0.76
3:C:25:THR:HG21	3:C:87:SER:HB2	1.66	0.76
3:C:2721:GLU:N	3:C:2798:PHE:CZ	2.54	0.76
4:D:80:PRO:CG	15:O:103:TRP:CE2	2.68	0.76
4:D:92:TYR:CD2	13:M:29:LYS:HB2	2.21	0.76
4:D:163:ARG:HD3	12:L:73:GLU:OE2	1.86	0.76
4:D:543:MET:SD	4:D:563:MET:CG	2.74	0.76
5:E:20:PHE:HA	14:N:90:ASP:CG	2.10	0.76
5:E:50:LEU:HD21	12:L:23:PHE:CB	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:114:VAL:HG11	7:G:123:LEU:HG	1.68	0.76
1:A:597:VAL:HB	4:D:477:GLU:HG2	1.65	0.75
1:A:597:VAL:CB	4:D:502:ALA:HB2	2.16	0.75
1:A:801:ILE:CB	5:E:149:THR:HB	2.16	0.75
1:A:3215:ILE:HG23	1:A:3219:ASP:OD2	1.83	0.75
1:A:3442:LYS:HD2	1:A:3485:THR:CA	2.16	0.75
2:B:410:ASN:O	2:B:414:VAL:HG23	1.87	0.75
2:B:679:ARG:HA	5:E:186:PHE:HZ	1.48	0.75
3:C:265:LYS:CE	3:C:356:THR:CG2	2.42	0.75
3:C:3970:LEU:HD23	3:C:3990:LEU:HD21	1.66	0.75
4:D:105:MET:CE	14:N:51:ILE:HD12	2.16	0.75
4:D:175:THR:OG1	13:M:60:ASN:CA	2.34	0.75
4:D:201:GLN:CD	9:I:102:ASN:CB	2.56	0.75
5:E:57:SER:O	10:J:90:HIS:CG	2.39	0.75
12:L:21:ILE:HD13	12:L:96:PHE:HB3	1.68	0.75
1:A:723:PHE:CD1	1:A:772:TRP:HZ2	2.02	0.75
1:A:1230:TYR:O	1:A:1256:TYR:CA	2.33	0.75
1:A:1536:LEU:HD12	1:A:1536:LEU:N	2.01	0.75
1:A:3237:MET:SD	1:A:3332:ILE:HD13	2.26	0.75
1:A:3261:LYS:HG2	1:A:3262:GLU:N	2.01	0.75
2:B:797:PHE:CE1	2:B:871:ILE:HD13	2.22	0.75
2:B:1511:VAL:CG2	2:B:1570:VAL:CG1	2.64	0.75
3:C:2013:GLY:HA2	19:C:4305:ADP:O1A	1.86	0.75
3:C:2639:ASP:CB	3:C:2643:GLU:CG	2.64	0.75
1:A:15:THR:CB	2:B:19:SER:HA	2.16	0.75
1:A:1536:LEU:CD2	2:B:3891:GLU:HG3	2.16	0.75
1:A:3232:ILE:CG2	1:A:3316:TRP:HE3	1.98	0.75
2:B:1139:LEU:HD21	2:B:1198:ILE:HD11	1.68	0.75
2:B:1531:ILE:HD12	2:B:1595:LEU:CD1	2.13	0.75
4:D:105:MET:HE1	14:N:47:THR:O	1.87	0.75
4:D:170:THR:CG2	13:M:66:ILE:CB	2.52	0.75
4:D:251:MET:CG	7:G:136:MET:CE	2.63	0.75
5:E:129:LEU:HD11	6:F:80:ARG:CD	2.16	0.75
5:E:259:ASN:ND2	5:E:299:GLY:N	2.34	0.75
6:F:19:GLY:O	6:F:101:GLN:HA	1.86	0.75
12:L:21:ILE:HG21	12:L:24:ASN:HB2	1.68	0.75
1:A:857:ARG:HG3	5:E:206:ASN:HA	1.67	0.75
1:A:1026:LEU:HD23	1:A:1026:LEU:O	1.86	0.75
1:A:1041:ASN:HA	1:A:1047:ASN:HD21	1.51	0.75
1:A:1429:ILE:CG2	1:A:1490:PHE:HZ	1.98	0.75
1:A:1511:TRP:CA	1:A:1574:LEU:HD13	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3067:ILE:HD11	2:B:3119:LYS:HD2	1.68	0.75
3:C:2698:LEU:CD1	3:C:2772:LYS:HB2	2.15	0.75
4:D:398:PRO:CD	4:D:419:SER:HB3	2.06	0.75
5:E:45:PRO:HA	12:L:89:ASP:HA	1.68	0.75
12:L:16:LEU:HD12	12:L:17:PRO:HD2	0.87	0.75
13:M:14:GLU:OE1	13:M:14:GLU:N	2.20	0.75
2:B:575:ASN:H	5:E:481:GLN:NE2	1.82	0.75
2:B:888:PRO:C	2:B:891:ILE:HG22	2.11	0.75
3:C:218:GLY:HA3	3:C:253:LEU:HD21	1.66	0.75
3:C:222:PHE:C	3:C:282:ARG:HH12	1.95	0.75
4:D:91:TYR:HB2	13:M:28:VAL:CG1	2.17	0.75
6:F:19:GLY:O	6:F:101:GLN:CA	2.35	0.75
6:F:84:SER:HB3	6:F:106:ALA:CB	2.17	0.75
6:F:84:SER:CB	6:F:106:ALA:CB	2.65	0.75
16:P:16:GLU:CA	16:P:74:LEU:CB	2.64	0.75
1:A:1458:MET:CE	1:A:1518:TRP:CZ2	2.69	0.75
1:A:3215:ILE:HG23	1:A:3219:ASP:CG	2.10	0.75
2:B:422:ARG:NH1	2:B:422:ARG:HB2	2.02	0.75
2:B:725:ILE:HG23	2:B:780:VAL:HG21	1.69	0.75
2:B:3301:ASN:HB3	2:B:3351:LYS:NZ	2.01	0.75
4:D:294:GLN:NE2	4:D:294:GLN:HA	2.02	0.75
5:E:394:TRP:NE1	5:E:401:PRO:HB3	2.00	0.75
1:A:599:ASN:CB	4:D:419:SER:OG	2.34	0.75
2:B:583:PRO:CB	2:B:683:GLU:HG2	2.16	0.75
2:B:603:ILE:CD1	2:B:626:TYR:CZ	2.70	0.75
2:B:3271:ASP:CG	2:B:3272:PRO:HD2	2.11	0.75
3:C:2698:LEU:HD23	3:C:2698:LEU:O	1.86	0.75
4:D:297:LYS:HZ3	4:D:328:LEU:CD1	1.99	0.75
5:E:61:VAL:HG21	10:J:106:LEU:CD2	2.13	0.75
5:E:355:ILE:HD12	5:E:355:ILE:N	2.01	0.75
6:F:81:THR:C	7:G:124:VAL:HG23	2.11	0.75
8:H:12:LYS:HG2	8:H:80:TYR:HE2	1.44	0.75
11:K:30:LYS:C	11:K:30:LYS:HD3	2.11	0.75
1:A:1013:VAL:O	1:A:1016:PHE:CD1	2.40	0.75
1:A:1020:PHE:CE1	1:A:1069:TYR:CZ	2.75	0.75
1:A:3120:GLY:HA2	1:A:3696:LEU:HD13	1.67	0.75
2:B:425:ASP:O	2:B:489:PHE:CZ	2.40	0.75
2:B:938:PHE:CD2	2:B:956:LEU:HD11	2.22	0.75
2:B:957:GLN:OE1	3:C:252:ASN:ND2	2.20	0.75
3:C:29:VAL:HG11	3:C:95:MET:SD	2.27	0.75
3:C:163:GLY:HA2	3:C:174:PHE:HD2	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2721:GLU:HA	3:C:2798:PHE:CZ	2.21	0.75
7:G:111:ARG:O	7:G:114:VAL:CG1	2.34	0.75
1:A:57:TYR:HA	1:A:103:ASP:HA	1.68	0.75
1:A:3141:GLU:O	1:A:3145:LEU:HG	1.87	0.75
2:B:690:LEU:C	2:B:690:LEU:HD12	2.12	0.75
4:D:115:TYR:HH	14:N:78:HIS:CD2	1.96	0.75
5:E:334:LEU:HD22	5:E:375:ARG:HH21	1.52	0.75
8:H:60:ILE:HG12	9:I:85:TYR:CG	2.21	0.75
1:A:550:HIS:CB	4:D:654:ASN:C	2.59	0.74
1:A:3046:PHE:HE2	1:A:3104:ILE:HD11	1.52	0.74
2:B:1447:ILE:HD11	2:B:1484:LEU:CB	2.18	0.74
2:B:1559:MET:HG2	2:B:1577:ARG:HH22	1.51	0.74
3:C:195:ASN:C	3:C:239:TRP:CZ2	2.65	0.74
4:D:593:LEU:C	4:D:593:LEU:HD12	2.12	0.74
5:E:59:HIS:CD2	10:J:90:HIS:CE1	2.70	0.74
9:I:27:SER:HB2	9:I:96:PHE:HB3	1.69	0.74
1:A:697:ARG:HH11	4:D:458:CYS:HB2	1.46	0.74
1:A:3121:LEU:HD21	1:A:3429:TRP:C	2.12	0.74
1:A:3248:LEU:CB	17:Q:81:ARG:H	1.98	0.74
2:B:858:ASN:ND2	3:C:169:TYR:CE2	2.42	0.74
2:B:938:PHE:O	3:C:283:THR:HG23	1.85	0.74
2:B:1374:THR:O	2:B:1420:LEU:CB	2.35	0.74
3:C:39:LEU:H	3:C:53:PRO:HA	1.51	0.74
3:C:220:TRP:HB2	3:C:251:TRP:HB2	1.69	0.74
8:H:16:MET:SD	8:H:77:ILE:HB	2.27	0.74
10:J:32:CYS:SG	10:J:96:ILE:CG1	2.75	0.74
1:A:246:TRP:CB	1:A:317:LEU:CB	2.65	0.74
1:A:800:ASP:CB	5:E:147:SER:O	2.34	0.74
1:A:1560:LYS:HB2	1:A:1563:PRO:HG2	1.69	0.74
1:A:3247:ARG:HG2	17:Q:127:ASN:N	2.00	0.74
1:A:3248:LEU:HD12	17:Q:80:SER:CB	2.15	0.74
2:B:871:ILE:HG13	2:B:944:ILE:HD12	1.69	0.74
2:B:881:HIS:NE2	2:B:885:GLN:NE2	2.35	0.74
3:C:2745:LYS:HE3	3:C:2749:VAL:HG11	0.78	0.74
4:D:247:ILE:HD13	5:E:129:LEU:HD22	1.67	0.74
5:E:384:LEU:CG	5:E:417:TRP:NE1	2.50	0.74
1:A:797:ASN:CA	5:E:450:HIS:NE2	2.49	0.74
1:A:1433:LEU:HD11	1:A:1490:PHE:CD1	2.19	0.74
1:A:1634:ILE:HD13	1:A:1656:ILE:CG2	2.17	0.74
1:A:3230:LEU:C	1:A:3233:ILE:HG22	2.12	0.74
2:B:882:LEU:C	2:B:886:ILE:HG22	2.11	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1488:LYS:CB	2:B:1501:VAL:CB	2.65	0.74
3:C:293:VAL:HG21	3:C:304:ILE:HD12	1.70	0.74
5:E:266:THR:CG2	5:E:320:THR:HA	2.09	0.74
5:E:282:THR:HG22	5:E:288:VAL:HG22	1.68	0.74
1:A:797:ASN:HA	5:E:450:HIS:NE2	2.02	0.74
1:A:1487:VAL:HG23	1:A:1490:PHE:HE1	1.51	0.74
1:A:1596:ARG:HG2	1:A:1603:TYR:CE2	2.23	0.74
1:A:1637:VAL:CG1	1:A:1653:ILE:HG23	2.18	0.74
1:A:3042:PHE:CE2	1:A:3100:LYS:HE2	2.22	0.74
2:B:1531:ILE:HG21	2:B:1595:LEU:CD1	2.15	0.74
2:B:1610:TYR:CD2	2:B:1942:GLY:CA	2.70	0.74
3:C:159:TYR:CD1	3:C:179:VAL:HG21	2.23	0.74
3:C:2927:ASP:HB3	3:C:2974:ILE:HG21	1.69	0.74
4:D:501:LEU:HB2	4:D:522:ASP:HB2	1.69	0.74
1:A:935:VAL:HG12	1:A:1081:ILE:HD12	1.69	0.74
1:A:943:THR:C	1:A:944:LEU:CA	2.60	0.74
1:A:1417:GLU:HG2	1:A:1421:GLU:HG3	1.69	0.74
1:A:1458:MET:CE	1:A:1548:TRP:CD1	2.70	0.74
1:A:3304:GLU:C	17:Q:55:LEU:O	2.29	0.74
2:B:81:ILE:C	2:B:110:VAL:HA	2.09	0.74
2:B:963:PHE:CE2	3:C:51:ILE:HG23	2.21	0.74
3:C:214:LEU:HD12	3:C:232:TYR:O	1.86	0.74
4:D:174:GLN:HE22	12:L:50:GLU:N	1.85	0.74
7:G:137:VAL:HG22	7:G:146:ILE:HG12	1.70	0.74
1:A:597:VAL:CG1	4:D:460:LEU:HD11	2.16	0.74
2:B:1058:LYS:HG3	2:B:1166:GLU:O	1.83	0.74
2:B:3264:ASN:HB2	2:B:3306:ILE:HD13	1.67	0.74
3:C:12:GLN:NE2	3:C:349:LEU:HB2	2.01	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CH2	2.71	0.74
9:I:81:GLU:OE1	9:I:102:ASN:HB2	1.86	0.74
1:A:789:LYS:O	5:E:433:TRP:CZ2	2.41	0.74
1:A:797:ASN:ND2	5:E:452:VAL:C	2.46	0.74
1:A:801:ILE:CA	5:E:149:THR:CB	2.57	0.74
1:A:1638:THR:HG21	1:A:1655:GLN:HE21	0.61	0.74
2:B:410:ASN:O	2:B:414:VAL:CG2	2.35	0.74
2:B:794:LEU:C	2:B:797:PHE:CE2	2.66	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CZ3	2.70	0.74
3:C:180:LEU:HD23	3:C:187:TRP:CZ2	2.21	0.74
3:C:294:LEU:HD23	3:C:294:LEU:C	2.13	0.74
3:C:2600:LYS:NZ	3:C:2914:ILE:O	2.20	0.74
4:D:80:PRO:HG2	15:O:103:TRP:HZ2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:355:ILE:HD12	5:E:355:ILE:H	1.53	0.74
7:G:58:SER:O	7:G:62:ASP:HB3	1.88	0.74
1:A:53:ILE:C	1:A:54:PHE:N	2.45	0.74
1:A:804:ASN:ND2	5:E:489:GLU:HB3	2.03	0.74
1:A:1598:LYS:CD	1:A:1681:GLU:OE2	2.35	0.74
1:A:3248:LEU:HD12	17:Q:80:SER:CA	2.16	0.74
2:B:900:PHE:CZ	2:B:933:TRP:HH2	2.03	0.74
2:B:969:LEU:HD11	3:C:343:ASN:ND2	2.03	0.74
8:H:79:LEU:C	8:H:79:LEU:HD12	2.13	0.74
1:A:697:ARG:HH12	4:D:458:CYS:HB3	1.49	0.74
1:A:1007:GLN:HA	1:A:1010:LYS:HE2	1.70	0.74
2:B:589:LEU:CD1	2:B:687:PHE:CZ	2.71	0.74
2:B:1511:VAL:CG2	2:B:1570:VAL:HG11	2.17	0.74
3:C:289:ASP:OD2	3:C:317:LYS:HE3	1.86	0.74
3:C:2730:LEU:HD21	3:C:2744:LYS:H	1.53	0.74
5:E:110:LYS:O	5:E:114:GLU:HG3	1.88	0.74
1:A:5:LYS:CB	1:A:48:GLU:HA	2.17	0.73
1:A:8:LYS:CB	1:A:109:SER:CB	2.66	0.73
1:A:939:GLY:O	1:A:940:ASP:HB2	1.87	0.73
1:A:3298:ILE:HA	1:A:3343:HIS:CE1	2.23	0.73
2:B:3269:LEU:C	2:B:3269:LEU:HD22	2.13	0.73
3:C:60:LEU:HD21	3:C:69:TRP:HZ3	1.40	0.73
3:C:2745:LYS:HD2	3:C:2749:VAL:CB	2.16	0.73
3:C:2892:ARG:HB3	3:C:3184:LEU:HB3	1.70	0.73
4:D:94:ARG:NH2	13:M:78:ASN:ND2	2.35	0.73
5:E:55:GLU:OE1	10:J:92:LYS:HD3	1.88	0.73
5:E:259:ASN:HD22	5:E:298:ALA:C	1.97	0.73
6:F:62:VAL:CG2	7:G:106:LEU:HD11	2.09	0.73
1:A:805:ARG:NH1	5:E:149:THR:CG2	2.51	0.73
1:A:852:ASN:ND2	1:A:969:LEU:HA	2.03	0.73
1:A:1066:VAL:HB	1:A:1069:TYR:CZ	2.23	0.73
2:B:956:LEU:HD12	2:B:959:ILE:CD1	2.09	0.73
2:B:3125:LYS:HE2	2:B:3447:MET:HB3	1.70	0.73
5:E:42:GLN:NE2	12:L:91:ASN:HD21	1.86	0.73
5:E:110:LYS:HA	6:F:10:GLN:HG2	1.69	0.73
6:F:56:TRP:HZ2	6:F:91:GLN:OE1	1.65	0.73
9:I:81:GLU:OE1	9:I:102:ASN:CG	2.30	0.73
14:N:72:ILE:CA	15:O:97:ILE:HG12	2.17	0.73
15:O:72:LYS:C	15:O:72:LYS:HD3	2.12	0.73
1:A:1427:LEU:O	1:A:1431:THR:HG23	1.88	0.73
2:B:949:THR:CB	3:C:171:ARG:O	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:963:PHE:HB3	3:C:41:ASN:HA	1.67	0.73
3:C:760:THR:CB	3:C:827:ILE:CG2	2.65	0.73
4:D:75:LEU:HD12	15:O:102:LEU:CD1	2.18	0.73
4:D:89:TYR:CE2	11:K:56:PRO:HD3	2.22	0.73
5:E:99:ILE:HD12	6:F:31:ILE:CD1	2.17	0.73
10:J:77:HIS:CE1	11:K:70:VAL:HG22	2.22	0.73
12:L:93:LEU:HD13	12:L:108:PHE:HB3	1.70	0.73
14:N:116:ALA:O	15:O:131:PHE:CE1	2.41	0.73
1:A:598:ARG:CG	4:D:504:TYR:CD1	2.66	0.73
1:A:704:ARG:NE	4:D:457:ALA:HA	2.03	0.73
1:A:1066:VAL:CG1	1:A:1068:THR:O	2.36	0.73
1:A:3250:PRO:HB2	17:Q:62:ILE:O	1.87	0.73
2:B:679:ARG:CA	5:E:186:PHE:HZ	2.01	0.73
2:B:963:PHE:CZ	3:C:39:LEU:C	2.67	0.73
2:B:1395:LEU:HA	2:B:1430:ILE:CD1	2.16	0.73
3:C:114:LEU:HD13	3:C:114:LEU:C	2.13	0.73
3:C:346:LEU:O	3:C:346:LEU:HD22	1.89	0.73
3:C:2366:LYS:HE2	19:C:4306:ADP:O3B	1.88	0.73
4:D:66:LEU:HD22	4:D:66:LEU:N	2.03	0.73
4:D:526:ARG:HB2	4:D:528:TRP:CZ2	2.24	0.73
6:F:28:GLU:N	6:F:28:GLU:OE1	2.18	0.73
13:M:84:LEU:C	13:M:84:LEU:HD12	2.13	0.73
1:A:609:TRP:HA	4:D:501:LEU:HD21	1.70	0.73
1:A:801:ILE:CB	1:A:862:LEU:CD2	2.58	0.73
1:A:1433:LEU:HD21	1:A:1481:PHE:HD2	1.53	0.73
1:A:1458:MET:HE1	1:A:1518:TRP:CZ2	2.22	0.73
2:B:433:ILE:CB	2:B:463:PHE:HZ	2.01	0.73
2:B:531:LEU:HD22	2:B:540:LEU:CD1	2.14	0.73
4:D:180:ILE:HD12	4:D:180:ILE:C	2.14	0.73
1:A:1031:ILE:HG22	1:A:1031:ILE:O	1.88	0.73
2:B:446:GLY:HA2	5:E:512:GLU:OE2	1.89	0.73
2:B:864:ASN:HB3	2:B:947:LEU:HG	1.21	0.73
2:B:1080:LEU:HD12	2:B:1080:LEU:N	2.03	0.73
2:B:1444:LEU:HD21	2:B:1501:VAL:HG22	1.69	0.73
3:C:96:LEU:HD12	3:C:96:LEU:O	1.88	0.73
1:A:160:GLU:CB	2:B:167:GLN:O	2.35	0.73
1:A:1634:ILE:HD13	1:A:1656:ILE:HG23	1.71	0.73
1:A:3246:ALA:HB3	17:Q:126:ASN:CB	2.11	0.73
2:B:744:MET:SD	2:B:772:ILE:HG12	2.29	0.73
2:B:1374:THR:C	2:B:1420:LEU:CB	2.62	0.73
3:C:2638:ALA:O	3:C:2639:ASP:O	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:216:HIS:HA	4:D:217:GLN:N	2.04	0.73
4:D:367:LEU:HD21	4:D:371:THR:HG1	1.53	0.73
5:E:446:ILE:H	5:E:446:ILE:CD1	1.99	0.73
7:G:77:LEU:HD23	7:G:77:LEU:C	2.14	0.73
1:A:737:TYR:CD1	1:A:759:LEU:CD2	2.72	0.73
2:B:984:ASN:HA	2:B:987:ARG:HG2	1.71	0.73
2:B:3342:ASN:O	2:B:3346:PHE:N	2.22	0.73
3:C:360:PRO:HG2	3:C:361:PRO:CD	2.18	0.73
4:D:243:ARG:HG3	5:E:131:GLU:OE2	1.88	0.73
4:D:251:MET:HB2	7:G:136:MET:CE	1.86	0.73
5:E:72:GLY:HA3	8:H:68:PHE:CD2	2.23	0.73
6:F:19:GLY:O	6:F:101:GLN:CB	2.37	0.73
10:J:74:PRO:HD3	12:L:102:ARG:CZ	2.18	0.73
1:A:751:LEU:O	1:A:751:LEU:HD23	1.88	0.73
1:A:1482:ASN:HA	1:A:1487:VAL:HG11	1.70	0.73
2:B:603:ILE:HD12	2:B:626:TYR:CZ	2.24	0.73
2:B:1511:VAL:HG23	2:B:1570:VAL:HG11	1.71	0.73
3:C:2581:LEU:HD23	3:C:2581:LEU:C	2.14	0.73
4:D:75:LEU:H	4:D:75:LEU:CD2	1.99	0.73
4:D:353:LEU:HD23	4:D:353:LEU:C	2.13	0.73
5:E:394:TRP:NE1	5:E:401:PRO:CA	2.51	0.73
1:A:850:SER:O	5:E:204:ASN:HB2	1.89	0.73
1:A:1429:ILE:HG21	1:A:1490:PHE:HZ	1.52	0.73
1:A:3229:PRO:CB	1:A:3233:ILE:HG21	2.18	0.73
2:B:591:TRP:CD1	5:E:411:TYR:HH	2.06	0.73
2:B:603:ILE:CD1	2:B:626:TYR:CE1	2.72	0.73
2:B:799:VAL:CG1	2:B:800:LYS:N	2.52	0.73
2:B:871:ILE:CG1	2:B:944:ILE:CD1	2.47	0.73
2:B:1002:GLN:HA	2:B:1094:TRP:CE2	2.23	0.73
2:B:2188:SER:O	20:B:5403:ATP:O3A	2.06	0.73
2:B:3143:LEU:CD2	2:B:3698:LEU:CD1	2.67	0.73
3:C:2721:GLU:OE2	3:C:2798:PHE:CE1	2.38	0.73
4:D:367:LEU:CD1	4:D:368:TYR:O	2.36	0.73
6:F:19:GLY:HA2	6:F:107:ILE:HD11	1.71	0.73
15:O:90:ILE:HD12	15:O:90:ILE:O	1.89	0.73
1:A:695:LEU:C	1:A:695:LEU:HD23	2.14	0.72
1:A:817:VAL:C	1:A:818:LEU:HD12	2.11	0.72
1:A:1140:GLU:N	4:D:169:ASN:HD21	1.86	0.72
1:A:3251:ILE:HD12	17:Q:64:LYS:H	0.93	0.72
2:B:3301:ASN:HD21	2:B:3351:LYS:HG2	1.54	0.72
4:D:109:PHE:CE2	15:O:121:TYR:CE2	2.76	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:386:TYR:CE1	5:E:142:VAL:CG1	2.72	0.72
5:E:225:GLN:H	5:E:225:GLN:CD	1.96	0.72
6:F:26:PHE:CE1	6:F:49:ALA:HB2	2.24	0.72
1:A:576:TYR:CE1	1:A:620:PRO:C	2.66	0.72
1:A:1450:TRP:CD1	1:A:1518:TRP:CZ3	2.77	0.72
3:C:2895:LEU:HB3	3:C:3190:ILE:HD13	1.71	0.72
4:D:90:ASP:OD1	13:M:32:LYS:CB	2.38	0.72
8:H:62:GLY:HA3	9:I:82:GLY:O	1.89	0.72
10:J:37:LEU:C	10:J:37:LEU:HD23	2.14	0.72
1:A:1126:VAL:CG1	1:A:1201:TYR:OH	2.37	0.72
2:B:356:GLN:CB	2:B:419:PHE:CZ	2.71	0.72
2:B:718:ILE:HD12	2:B:773:VAL:HG11	1.71	0.72
2:B:1559:MET:HE3	2:B:1577:ARG:HH21	1.50	0.72
3:C:2639:ASP:HB2	3:C:2643:GLU:CG	2.18	0.72
3:C:2715:PRO:HG2	3:C:2719:VAL:HB	1.70	0.72
4:D:636:MET:HA	4:D:636:MET:HE3	1.70	0.72
5:E:82:GLY:CA	8:H:12:LYS:NZ	2.51	0.72
1:A:594:PRO:HB3	1:A:609:TRP:CZ3	2.24	0.72
2:B:583:PRO:HB2	2:B:586:ALA:HB3	1.71	0.72
2:B:3257:ARG:NH2	2:B:3273:ASP:OD1	2.23	0.72
3:C:214:LEU:H	3:C:214:LEU:HD13	1.54	0.72
3:C:2784:ASN:C	3:C:2787:ILE:HG22	2.14	0.72
9:I:90:GLN:HB2	9:I:93:THR:HG21	1.71	0.72
14:N:75:GLN:HB3	15:O:93:GLN:HG3	0.81	0.72
1:A:597:VAL:HB	1:A:600:MET:CG	2.17	0.72
1:A:1045:LEU:HD13	1:A:1045:LEU:C	2.14	0.72
1:A:1234:GLY:HA2	1:A:1253:GLU:CA	2.19	0.72
1:A:1535:PRO:CB	2:B:3861:ASN:ND2	2.53	0.72
1:A:3305:LEU:HD13	17:Q:80:SER:CA	2.19	0.72
2:B:886:ILE:HD13	2:B:972:ILE:HG23	1.71	0.72
4:D:429:MET:HB2	4:D:432:LYS:O	1.90	0.72
9:I:24:ILE:HD13	9:I:98:PHE:HE1	1.53	0.72
1:A:1111:LEU:O	1:A:1115:THR:HG23	1.89	0.72
2:B:521:PHE:CE2	2:B:605:LYS:HB3	2.24	0.72
2:B:1456:PHE:CD1	2:B:1456:PHE:O	2.42	0.72
3:C:2581:LEU:CD1	3:C:2936:SER:CB	2.68	0.72
5:E:117:GLU:HG3	6:F:17:LEU:HD11	0.72	0.72
1:A:1163:LEU:C	1:A:1163:LEU:HD23	2.13	0.72
2:B:655:LYS:HA	2:B:677:LEU:HD11	1.71	0.72
2:B:1607:PRO:HB2	2:B:1946:SER:CB	2.19	0.72
2:B:2396:MET:HE1	2:B:2668:GLN:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:PRO:CG	3:C:81:PRO:HB3	2.20	0.72
4:D:66:LEU:HD11	4:D:73:LYS:HE2	1.72	0.72
4:D:162:LEU:C	4:D:162:LEU:HD23	2.14	0.72
4:D:201:GLN:HE22	9:I:102:ASN:HB3	1.53	0.72
5:E:162:ARG:HD3	5:E:194:PRO:HG2	1.72	0.72
10:J:48:LEU:HD12	10:J:100:ILE:CD1	2.18	0.72
13:M:2:ASN:HD21	13:M:77:ILE:HD11	1.53	0.72
14:N:115:MET:HE2	15:O:129:CYS:CB	2.19	0.72
1:A:580:LEU:HD22	1:A:640:SER:CB	1.99	0.72
1:A:1066:VAL:HG12	1:A:1068:THR:O	1.89	0.72
1:A:3106:LYS:HG2	1:A:3443:LEU:HD21	1.56	0.72
2:B:444:LEU:N	5:E:515:LYS:HG2	1.71	0.72
2:B:524:LEU:HD23	2:B:524:LEU:C	2.14	0.72
2:B:1116:PHE:CA	2:B:1119:LYS:NZ	2.52	0.72
2:B:2192:CYS:SG	20:B:5403:ATP:H8	2.12	0.72
3:C:2581:LEU:CD1	3:C:2937:TYR:CE2	2.73	0.72
3:C:2581:LEU:HD12	3:C:2936:SER:HB2	1.68	0.72
3:C:2800:PRO:HB3	3:C:2818:VAL:HG21	1.72	0.72
4:D:110:SER:CB	15:O:96:ARG:HG3	2.20	0.72
4:D:254:GLN:OE1	5:E:126:ILE:HD11	1.90	0.72
5:E:50:LEU:CD1	12:L:95:PHE:CB	2.64	0.72
16:P:39:TRP:C	16:P:40:SER:CA	2.62	0.72
1:A:63:ALA:O	1:A:95:PHE:CB	2.37	0.72
1:A:97:ARG:O	1:A:121:GLY:HA2	1.90	0.72
1:A:892:TRP:CH2	7:G:13:ASP:CB	2.72	0.72
1:A:3290:LEU:HD23	1:A:3335:TRP:CZ2	2.17	0.72
2:B:789:LYS:HE3	2:B:839:LEU:HD21	1.71	0.72
2:B:954:ASP:HB2	3:C:220:TRP:CE2	2.16	0.72
3:C:143:PRO:HG3	3:C:187:TRP:CZ2	2.24	0.72
6:F:11:LEU:CB	6:F:23:TYR:OH	2.34	0.72
8:H:13:ASN:O	8:H:78:TYR:HB3	1.89	0.72
10:J:87:GLN:OE1	11:K:44:SER:HB3	1.89	0.72
14:N:72:ILE:HG12	15:O:97:ILE:CG1	2.20	0.72
1:A:1212:LEU:HD23	1:A:1212:LEU:C	2.14	0.72
1:A:1609:THR:HG21	1:A:1629:LYS:HE3	1.72	0.72
1:A:3306:LEU:HD13	1:A:3310:LEU:HG	1.71	0.72
2:B:659:THR:HA	2:B:757:TRP:NE1	2.04	0.72
2:B:966:LYS:CB	3:C:345:TRP:CZ3	2.67	0.72
3:C:5:LEU:HD12	3:C:355:SER:H	1.54	0.72
3:C:106:LEU:N	3:C:106:LEU:HD12	2.04	0.72
3:C:200:ARG:HB2	3:C:219:GLY:HA3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:256:ILE:HB	3:C:326:ILE:HG23	1.72	0.72
4:D:76:GLU:N	15:O:102:LEU:HD21	2.00	0.72
11:K:77:PHE:HD1	11:K:90:TYR:CB	1.95	0.72
1:A:871:LEU:CD2	1:A:875:VAL:HG13	2.19	0.71
1:A:1511:TRP:HA	1:A:1574:LEU:CD1	2.19	0.71
1:A:3583:ILE:HG22	1:A:3627:CYS:HA	1.71	0.71
2:B:575:ASN:HB2	5:E:481:GLN:NE2	2.04	0.71
2:B:726:LYS:HD3	2:B:726:LYS:O	1.90	0.71
2:B:797:PHE:CZ	2:B:871:ILE:HD13	2.25	0.71
2:B:1115:ASP:C	2:B:1119:LYS:HZ2	1.97	0.71
2:B:3342:ASN:O	2:B:3346:PHE:HB2	1.88	0.71
3:C:233:ASP:OD1	3:C:235:GLU:O	2.08	0.71
4:D:269:SER:HB2	4:D:618:PRO:HD3	1.71	0.71
10:J:52:GLU:OE1	10:J:52:GLU:N	2.18	0.71
11:K:89:LEU:HD12	11:K:89:LEU:O	1.90	0.71
1:A:1634:ILE:C	1:A:1634:ILE:HD12	2.14	0.71
2:B:1051:ASP:OD2	2:B:1162:THR:HG21	1.90	0.71
2:B:3454:ALA:HB2	2:B:3497:ILE:HG21	1.72	0.71
3:C:34:ILE:HB	3:C:95:MET:HE1	1.71	0.71
4:D:567:GLN:CD	4:D:578:LYS:CE	2.62	0.71
5:E:20:PHE:HE2	15:O:80:LYS:CD	1.95	0.71
5:E:361:LEU:O	5:E:361:LEU:HD13	1.90	0.71
1:A:3298:ILE:CA	1:A:3343:HIS:CE1	2.67	0.71
2:B:1139:LEU:HD13	2:B:1139:LEU:C	2.15	0.71
3:C:217:PHE:CZ	3:C:246:HIS:HB2	2.25	0.71
3:C:244:ILE:HG12	3:C:299:LEU:O	1.90	0.71
3:C:2709:ALA:N	3:C:2758:MET:SD	2.63	0.71
1:A:697:ARG:NH2	4:D:419:SER:HG	1.86	0.71
1:A:704:ARG:NE	4:D:457:ALA:N	2.38	0.71
2:B:679:ARG:CA	5:E:186:PHE:CZ	2.73	0.71
2:B:960:ARG:HD3	3:C:287:PHE:HZ	1.55	0.71
2:B:1058:LYS:CB	2:B:1166:GLU:CB	2.59	0.71
2:B:3302:ILE:CG2	2:B:3303:GLU:N	2.53	0.71
3:C:111:THR:HG21	3:C:187:TRP:HZ3	1.54	0.71
3:C:2721:GLU:HA	3:C:2798:PHE:CE1	2.25	0.71
1:A:635:ARG:HA	1:A:638:TYR:CD2	2.25	0.71
1:A:906:LEU:CD1	1:A:998:VAL:HG21	2.21	0.71
2:B:57:ASN:CA	2:B:71:CYS:CB	2.69	0.71
2:B:433:ILE:CA	2:B:463:PHE:CZ	2.74	0.71
2:B:444:LEU:CD1	2:B:527:PHE:CE1	2.56	0.71
2:B:3301:ASN:HD22	2:B:3351:LYS:NZ	1.74	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:351:MET:HA	4:D:351:MET:CE	2.17	0.71
4:D:514:ARG:HB2	4:D:530:SER:HB2	1.71	0.71
5:E:75:HIS:CE1	8:H:85:ALA:HB2	2.25	0.71
5:E:203:LEU:HD23	5:E:203:LEU:C	2.15	0.71
15:O:30:TYR:H	15:O:31:PRO:HD2	1.53	0.71
1:A:670:LEU:CD2	1:A:772:TRP:HD1	2.02	0.71
1:A:704:ARG:HH12	4:D:456:LEU:N	1.87	0.71
1:A:841:ILE:O	1:A:845:THR:HG23	1.89	0.71
1:A:852:ASN:HD22	1:A:969:LEU:HA	1.55	0.71
2:B:575:ASN:CA	5:E:481:GLN:NE2	2.52	0.71
2:B:1058:LYS:NZ	2:B:1167:MET:SD	2.60	0.71
2:B:3248:PRO:HB2	2:B:3253:ILE:HD11	1.73	0.71
4:D:106:ILE:CG1	15:O:99:SER:O	2.35	0.71
5:E:19:ASN:O	14:N:90:ASP:OD2	2.09	0.71
1:A:1151:MET:CE	4:D:176:ILE:N	2.53	0.71
1:A:1426:GLN:CB	1:A:1486:HIS:HB3	2.20	0.71
1:A:1601:ARG:HE	1:A:1688:GLU:CD	1.92	0.71
1:A:3248:LEU:CD1	17:Q:80:SER:HA	2.14	0.71
2:B:523:LEU:HD23	2:B:523:LEU:C	2.16	0.71
2:B:545:ILE:HD11	2:B:616:ARG:NH1	2.01	0.71
3:C:196:PRO:CA	3:C:239:TRP:CH2	2.72	0.71
5:E:251:PRO:HG2	5:E:254:ILE:HD11	1.73	0.71
10:J:19:LYS:CE	15:O:19:LEU:CD1	2.66	0.71
14:N:10:SER:HB2	14:N:97:LEU:HD11	1.73	0.71
16:P:10:THR:CB	16:P:66:ILE:O	2.38	0.71
1:A:891:PHE:CZ	1:A:985:PHE:CZ	2.78	0.71
1:A:1263:TYR:CD2	1:A:1283:LEU:CB	2.73	0.71
1:A:1449:ILE:CA	1:A:1459:LEU:CD2	2.61	0.71
1:A:1504:VAL:CG1	1:A:1565:CYS:SG	2.78	0.71
2:B:715:LEU:O	2:B:719:VAL:HG23	1.89	0.71
2:B:1058:LYS:HB2	2:B:1166:GLU:HB3	1.68	0.71
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ3	1.53	0.71
3:C:60:LEU:HD23	3:C:69:TRP:CZ3	2.24	0.71
3:C:2365:GLY:HA2	19:C:4306:ADP:C3'	2.21	0.71
4:D:424:MET:SD	4:D:437:GLU:HG2	2.31	0.71
4:D:473:LEU:HD23	4:D:483:LYS:HA	1.71	0.71
5:E:112:LEU:HD23	5:E:112:LEU:C	2.16	0.71
5:E:394:TRP:CD1	5:E:401:PRO:N	2.59	0.71
6:F:21:ASN:ND2	6:F:102:LEU:HD11	2.05	0.71
6:F:81:THR:HB	7:G:121:ASN:OD1	1.89	0.71
1:A:1417:GLU:CA	1:A:1420:THR:OG1	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3311:ASN:HD22	17:Q:30:LYS:C	1.95	0.71
2:B:429:LEU:HD13	2:B:492:PHE:HD2	1.56	0.71
2:B:871:ILE:HD11	2:B:944:ILE:HD11	1.71	0.71
2:B:1116:PHE:HA	2:B:1119:LYS:HZ2	1.55	0.71
2:B:1471:ASP:OD1	2:B:1472:ASN:N	2.24	0.71
4:D:80:PRO:HG2	15:O:103:TRP:CZ2	2.24	0.71
4:D:91:TYR:CE1	13:M:80:LEU:HD12	2.25	0.71
5:E:66:VAL:HG11	8:H:72:GLU:CD	2.16	0.71
5:E:384:LEU:HD23	5:E:417:TRP:CZ2	2.26	0.71
8:H:79:LEU:HD12	8:H:79:LEU:O	1.89	0.71
9:I:78:ILE:HD12	9:I:78:ILE:O	1.91	0.71
10:J:48:LEU:HD23	10:J:60:ILE:CD1	2.20	0.71
14:N:72:ILE:HG12	15:O:97:ILE:CD1	2.18	0.71
1:A:761:LEU:HD13	1:A:761:LEU:O	1.90	0.71
1:A:1230:TYR:C	1:A:1256:TYR:HA	2.16	0.71
1:A:1234:GLY:HA2	1:A:1253:GLU:HA	1.73	0.71
2:B:3300:GLU:OE2	2:B:3354:LYS:HE3	1.91	0.71
2:B:3446:SER:HA	2:B:3488:ILE:HA	1.72	0.71
5:E:261:HIS:HB3	5:E:289:MET:SD	2.31	0.71
6:F:54:ASP:CG	7:G:109:LYS:HE2	2.15	0.71
1:A:700:LYS:NZ	4:D:456:LEU:H	1.88	0.70
1:A:944:LEU:HD11	1:A:1013:VAL:HG11	1.69	0.70
1:A:2418:ILE:HG22	1:A:2419:PRO:HD2	1.72	0.70
1:A:2839:LEU:CD1	19:A:4703:ADP:C5	2.74	0.70
2:B:659:THR:HG22	2:B:757:TRP:HD1	1.48	0.70
2:B:1119:LYS:CB	2:B:1138:LYS:NZ	2.50	0.70
2:B:3402:LYS:C	2:B:3402:LYS:HD3	2.16	0.70
4:D:170:THR:HG21	13:M:66:ILE:HG12	0.71	0.70
4:D:260:LYS:HB3	4:D:287:TRP:CZ2	2.25	0.70
4:D:329:ILE:HD11	4:D:350:VAL:HG21	1.73	0.70
5:E:59:HIS:HD2	10:J:90:HIS:NE2	1.85	0.70
5:E:100:GLU:HA	5:E:105:PHE:CB	2.21	0.70
5:E:272:MET:SD	5:E:326:VAL:HG22	2.30	0.70
6:F:56:TRP:CZ3	6:F:74:ILE:CG1	2.74	0.70
10:J:62:GLU:HG3	11:K:69:TYR:CE2	2.26	0.70
1:A:598:ARG:HB2	4:D:460:LEU:CD2	2.22	0.70
1:A:731:LEU:HB2	4:D:390:VAL:CG2	2.21	0.70
1:A:1146:GLN:HE21	13:M:9:ALA:CB	1.98	0.70
1:A:1199:LYS:N	13:M:70:LYS:HE3	2.06	0.70
2:B:412:LEU:HD13	2:B:412:LEU:C	2.15	0.70
2:B:939:ASN:HA	3:C:283:THR:HG22	0.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1467:PHE:CD2	2:B:1560:MET:SD	2.83	0.70
2:B:1511:VAL:HA	2:B:1570:VAL:HG13	1.70	0.70
3:C:2687:ALA:HA	3:C:2826:VAL:HG11	1.72	0.70
4:D:61:LEU:N	14:N:59:ASN:HD21	1.89	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CA	2.03	0.70
4:D:517:ILE:CD1	4:D:550:TRP:CZ2	2.73	0.70
5:E:16:ASN:CB	15:O:132:GLU:C	2.62	0.70
5:E:47:PHE:C	12:L:88:PHE:CE2	2.70	0.70
5:E:366:HIS:CE1	5:E:394:TRP:HH2	2.09	0.70
10:J:79:PHE:CG	11:K:68:ALA:CB	2.74	0.70
14:N:86:THR:OG1	15:O:83:VAL:CG1	2.37	0.70
1:A:700:LYS:CE	1:A:720:GLU:OE1	2.30	0.70
1:A:936:GLN:CA	1:A:1081:ILE:HG13	2.11	0.70
1:A:1020:PHE:CE2	1:A:1069:TYR:CE1	2.78	0.70
1:A:1146:GLN:HG3	13:M:9:ALA:HB1	1.48	0.70
1:A:1521:LEU:O	1:A:1541:PHE:CE2	2.45	0.70
1:A:1536:LEU:H	1:A:1536:LEU:CD1	2.02	0.70
1:A:1536:LEU:HD21	2:B:3891:GLU:HG3	1.71	0.70
1:A:3230:LEU:N	1:A:3233:ILE:CG2	2.54	0.70
2:B:729:LEU:HD13	2:B:780:VAL:HG22	1.73	0.70
3:C:2711:SER:HB3	3:C:2751:TRP:CE2	2.21	0.70
4:D:70:MET:CE	5:E:13:GLU:CB	2.68	0.70
4:D:92:TYR:CD2	13:M:29:LYS:CB	2.74	0.70
4:D:198:ASN:HB3	8:H:39:LYS:HE3	1.72	0.70
5:E:394:TRP:NE1	5:E:401:PRO:CB	2.54	0.70
6:F:28:GLU:CD	6:F:28:GLU:H	1.97	0.70
8:H:28:ALA:HB1	8:H:86:ILE:CD1	2.20	0.70
9:I:51:ALA:CB	9:I:52:PRO:CD	2.62	0.70
15:O:45:ARG:HG3	15:O:63:LEU:CD1	2.20	0.70
1:A:598:ARG:HH11	4:D:504:TYR:CA	2.04	0.70
1:A:604:ALA:H	1:A:698:GLU:CD	1.98	0.70
1:A:726:TYR:CE1	1:A:777:ILE:CG2	2.74	0.70
1:A:806:ILE:CD1	1:A:890:TYR:CD2	2.74	0.70
1:A:818:LEU:HA	1:A:844:LYS:HE3	1.71	0.70
1:A:944:LEU:CD1	1:A:1017:LEU:HD11	2.11	0.70
1:A:3270:LYS:NZ	17:Q:57:LEU:O	2.24	0.70
1:A:3273:TYR:CD1	1:A:3276:SER:N	2.60	0.70
1:A:3293:PHE:HE1	1:A:3335:TRP:CH2	2.05	0.70
2:B:477:ILE:O	2:B:477:ILE:HG22	1.91	0.70
2:B:904:LEU:HD11	2:B:911:ILE:HG22	1.70	0.70
2:B:3118:TYR:CE2	2:B:3452:LEU:CB	2.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3234:LEU:CD1	2:B:3336:LEU:CD2	2.69	0.70
2:B:3252:VAL:HG22	2:B:3333:ALA:HB2	1.72	0.70
3:C:2014:CYS:SG	3:C:2015:GLY:N	2.64	0.70
3:C:2739:GLU:H	3:C:2746:PRO:CB	2.04	0.70
4:D:80:PRO:CG	15:O:103:TRP:HZ2	2.05	0.70
4:D:180:ILE:HD12	4:D:180:ILE:O	1.91	0.70
5:E:26:ARG:O	14:N:85:ILE:HG22	1.90	0.70
10:J:61:ALA:CA	10:J:80:PHE:CE2	2.69	0.70
1:A:801:ILE:HG21	1:A:862:LEU:HG	1.73	0.70
1:A:1205:GLN:HG2	4:D:166:PHE:HE2	1.53	0.70
1:A:1623:ILE:CD1	1:A:1680:ILE:HD13	2.19	0.70
1:A:3305:LEU:CD1	17:Q:80:SER:H	2.01	0.70
2:B:674:ASP:OD1	2:B:675:PRO:HD2	1.91	0.70
2:B:1115:ASP:C	2:B:1119:LYS:NZ	2.49	0.70
2:B:2540:ALA:O	19:B:5405:ADP:O2B	2.10	0.70
2:B:3140:LEU:HD23	2:B:3140:LEU:C	2.16	0.70
2:B:3231:VAL:O	2:B:3339:TRP:HD1	1.73	0.70
2:B:3301:ASN:CB	2:B:3351:LYS:NZ	2.53	0.70
3:C:2745:LYS:CD	3:C:2749:VAL:CG1	2.69	0.70
3:C:2899:LEU:HG	3:C:3193:LEU:CD1	2.22	0.70
4:D:75:LEU:CB	15:O:102:LEU:CD1	2.45	0.70
4:D:172:GLU:HB3	13:M:64:HIS:CG	2.25	0.70
4:D:535:GLN:N	4:D:535:GLN:OE1	2.24	0.70
5:E:46:ASN:CG	12:L:88:PHE:CZ	2.68	0.70
12:L:59:LYS:HB2	12:L:59:LYS:NZ	2.06	0.70
1:A:398:TRP:CB	1:A:490:LYS:CA	2.69	0.70
1:A:702:LEU:O	4:D:453:LEU:HD21	1.90	0.70
1:A:870:PRO:C	1:A:871:LEU:CD1	2.64	0.70
1:A:971:ASN:CA	1:A:985:PHE:CE2	2.61	0.70
1:A:1088:TRP:CE2	1:A:1092:TRP:NE1	2.59	0.70
1:A:4056:ILE:HD11	1:A:4072:LEU:HD21	1.72	0.70
2:B:99:LEU:O	2:B:100:THR:C	2.35	0.70
2:B:1242:GLN:C	2:B:1251:SER:N	2.50	0.70
2:B:3121:LEU:HD13	2:B:3121:LEU:C	2.16	0.70
2:B:3153:LEU:HD13	2:B:3707:LEU:HD11	0.84	0.70
2:B:3303:GLU:OE1	2:B:3306:ILE:CD1	2.39	0.70
3:C:360:PRO:CD	3:C:361:PRO:HD2	2.22	0.70
3:C:2899:LEU:HD12	3:C:3190:ILE:HG12	1.73	0.70
5:E:363:GLN:HG2	5:E:363:GLN:O	1.91	0.70
1:A:731:LEU:HB2	4:D:390:VAL:HG21	1.73	0.70
1:A:1450:TRP:CZ2	1:A:1519:THR:HG23	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1926:PHE:HB3	1:A:1974:ILE:HG23	1.74	0.70
1:A:3306:LEU:HD22	1:A:3309:TYR:HB2	1.73	0.70
3:C:2589:LEU:CB	3:C:2928:VAL:HG11	2.22	0.70
3:C:2720:PRO:C	3:C:2798:PHE:HZ	1.98	0.70
5:E:20:PHE:HZ	15:O:80:LYS:HG3	0.90	0.70
8:H:46:LYS:HZ1	9:I:86:ASP:C	1.91	0.70
15:O:71:ILE:HG21	15:O:81:ILE:HG21	1.72	0.70
16:P:10:THR:CB	16:P:66:ILE:H	2.05	0.70
1:A:598:ARG:HB2	4:D:460:LEU:HD22	1.69	0.70
1:A:1449:ILE:CA	1:A:1459:LEU:HD23	2.12	0.70
1:A:1637:VAL:CG1	1:A:1653:ILE:CG2	2.70	0.70
1:A:3304:GLU:CA	17:Q:55:LEU:C	2.64	0.70
2:B:520:ARG:HH11	2:B:550:MET:HG3	1.55	0.70
2:B:545:ILE:CD1	2:B:616:ARG:HH11	1.99	0.70
6:F:91:GLN:CG	6:F:96:THR:HG21	2.17	0.70
8:H:11:ILE:HA	8:H:79:LEU:HA	1.72	0.70
8:H:60:ILE:CG1	9:I:85:TYR:HB3	2.19	0.70
13:M:57:VAL:HG22	13:M:82:LEU:HG	1.71	0.70
1:A:913:VAL:C	1:A:1073:ALA:HB1	2.15	0.70
1:A:1012:LYS:NZ	1:A:1071:ILE:HB	2.05	0.70
1:A:1100:LEU:HG	1:A:1159:MET:HE1	1.72	0.70
1:A:3702:SER:HB3	1:A:3712:LEU:HD11	1.73	0.70
1:A:3709:ASP:HB3	1:A:3712:LEU:HD12	1.74	0.70
2:B:409:SER:CA	2:B:413:PHE:CD1	2.48	0.70
2:B:1329:PRO:C	2:B:1412:PHE:CB	2.65	0.70
7:G:79:VAL:CG2	7:G:146:ILE:HD12	2.22	0.70
1:A:596:LEU:HD21	1:A:602:PRO:HA	1.72	0.70
1:A:704:ARG:NH1	4:D:456:LEU:N	2.40	0.70
1:A:793:GLN:CA	5:E:451:LYS:HB3	2.21	0.70
1:A:942:VAL:HG21	1:A:1021:THR:CG2	2.21	0.70
1:A:3212:VAL:HG21	1:A:3339:ILE:HG13	1.73	0.70
1:A:3308:PRO:HD2	17:Q:56:SER:C	2.13	0.70
1:A:3587:VAL:HG11	1:A:3638:LEU:HD13	1.74	0.70
2:B:489:PHE:O	2:B:493:ARG:HG2	1.92	0.70
2:B:1378:LEU:HA	2:B:1424:GLU:HG2	1.73	0.70
3:C:221:SER:O	3:C:282:ARG:NH2	2.24	0.70
3:C:2720:PRO:HB2	3:C:2798:PHE:CD2	2.23	0.70
3:C:2734:PHE:CZ	3:C:2767:LYS:CG	2.74	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CB	2.03	0.70
5:E:58:GLU:HB3	10:J:89:VAL:HA	1.71	0.70
5:E:61:VAL:HG11	10:J:95:PHE:CZ	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:100:GLU:CA	5:E:105:PHE:HD2	2.03	0.70
6:F:51:LEU:HB3	7:G:113:VAL:HG13	1.74	0.70
1:A:747:ILE:CD1	1:A:889:TYR:CZ	2.66	0.69
1:A:1190:LEU:HD23	1:A:1190:LEU:C	2.17	0.69
1:A:1500:THR:HG23	1:A:1566:GLN:NE2	2.07	0.69
2:B:501:ARG:NH1	4:D:491:GLN:CG	2.45	0.69
2:B:699:LYS:O	2:B:703:THR:HG23	1.92	0.69
2:B:721:ASN:OD1	2:B:777:PHE:HB2	1.92	0.69
2:B:783:MET:HE1	2:B:847:VAL:HG21	1.72	0.69
2:B:1456:PHE:CG	2:B:1467:PHE:HE1	2.08	0.69
4:D:110:SER:HA	15:O:96:ARG:HG3	1.74	0.69
4:D:177:ASN:CG	13:M:60:ASN:CB	2.58	0.69
5:E:20:PHE:CE2	15:O:80:LYS:HD2	2.25	0.69
5:E:145:LEU:HD13	5:E:494:LEU:HD11	1.73	0.69
10:J:19:LYS:HB2	10:J:28:TRP:CB	2.20	0.69
10:J:48:LEU:HD22	10:J:53:ILE:HG13	1.72	0.69
1:A:156:VAL:CB	2:B:168:ILE:CA	2.70	0.69
1:A:398:TRP:HA	1:A:486:ASN:O	1.92	0.69
1:A:785:HIS:HE1	4:D:391:ARG:HH22	1.31	0.69
1:A:1433:LEU:CD1	1:A:1490:PHE:CE1	2.72	0.69
1:A:2872:GLY:CA	19:A:4703:ADP:O1A	2.40	0.69
1:A:3317:PHE:HA	1:A:3333:LEU:HD13	1.74	0.69
2:B:966:LYS:CD	3:C:345:TRP:CG	2.72	0.69
4:D:89:TYR:CD2	11:K:56:PRO:CG	2.75	0.69
4:D:148:GLU:CG	4:D:149:PRO:CD	2.68	0.69
5:E:272:MET:SD	5:E:326:VAL:CG2	2.80	0.69
5:E:446:ILE:HD12	5:E:446:ILE:N	2.01	0.69
5:E:531:ARG:O	5:E:535:LYS:HG3	1.91	0.69
10:J:61:ALA:HA	10:J:80:PHE:HE2	1.57	0.69
14:N:8:TYR:CZ	14:N:13:VAL:HG21	2.27	0.69
1:A:670:LEU:HA	1:A:692:ILE:CD1	2.23	0.69
1:A:1100:LEU:HD23	1:A:1100:LEU:C	2.16	0.69
1:A:1142:ILE:HD13	1:A:1190:LEU:HD21	1.74	0.69
1:A:1234:GLY:HA2	1:A:1253:GLU:N	1.96	0.69
1:A:3212:VAL:HG23	1:A:3338:ALA:HB3	1.70	0.69
1:A:3245:LYS:CE	17:Q:148:LEU:CB	2.69	0.69
2:B:655:LYS:NZ	2:B:701:ILE:CG2	2.46	0.69
2:B:744:MET:HE1	2:B:772:ILE:C	2.17	0.69
2:B:3301:ASN:ND2	2:B:3351:LYS:HG2	2.06	0.69
3:C:113:ILE:CD1	3:C:185:PHE:CZ	2.75	0.69
3:C:2723:PHE:CZ	3:C:2745:LYS:HE3	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2779:GLN:O	3:C:2780:VAL:HG23	1.92	0.69
3:C:2796:PRO:HD2	3:C:2796:PRO:O	1.92	0.69
4:D:61:LEU:N	14:N:59:ASN:ND2	2.40	0.69
5:E:112:LEU:CD2	6:F:97:MET:HE2	2.22	0.69
1:A:1183:LEU:HD23	1:A:1183:LEU:C	2.17	0.69
1:A:1230:TYR:CB	1:A:1259:LYS:CB	2.70	0.69
1:A:1443:MET:HG3	1:A:1561:VAL:HG21	1.73	0.69
2:B:927:ARG:NH1	2:B:976:LEU:HB3	2.07	0.69
2:B:3067:ILE:HD11	2:B:3119:LYS:CD	2.22	0.69
4:D:590:LEU:CD2	4:D:604:VAL:CG1	2.69	0.69
1:A:590:GLN:CG	4:D:523:TRP:CZ3	2.75	0.69
1:A:700:LYS:CA	4:D:454:ILE:O	2.31	0.69
1:A:1151:MET:SD	4:D:176:ILE:HG12	2.31	0.69
2:B:673:PHE:CZ	2:B:677:LEU:CB	2.74	0.69
2:B:963:PHE:CD1	3:C:41:ASN:HA	2.26	0.69
2:B:1474:MET:HE2	2:B:1515:VAL:HG12	1.74	0.69
2:B:3433:TRP:CH2	2:B:3695:LEU:HD21	2.27	0.69
3:C:352:LEU:O	3:C:352:LEU:HD22	1.93	0.69
4:D:248:MET:CE	7:G:147:VAL:CB	2.69	0.69
5:E:113:LYS:HE2	6:F:10:GLN:HA	1.74	0.69
6:F:56:TRP:CH2	6:F:74:ILE:CG1	2.76	0.69
9:I:35:LEU:HD22	9:I:95:LEU:HD13	1.72	0.69
1:A:1511:TRP:CG	1:A:1574:LEU:HD11	2.27	0.69
1:A:1597:LYS:CE	1:A:1962:ILE:HD11	2.23	0.69
2:B:500:GLU:HG2	2:B:532:THR:HG21	1.73	0.69
2:B:939:ASN:HD22	3:C:283:THR:CG2	2.04	0.69
2:B:1477:LEU:HD13	2:B:1511:VAL:HG11	1.73	0.69
3:C:52:ALA:HB1	3:C:53:PRO:HD3	1.75	0.69
7:G:119:PRO:CG	9:I:12:ILE:CD1	2.69	0.69
10:J:38:GLU:OE2	15:O:29:PHE:HE2	1.71	0.69
10:J:79:PHE:HA	11:K:68:ALA:CB	2.23	0.69
12:L:55:LEU:C	12:L:55:LEU:HD23	2.18	0.69
14:N:89:GLN:HG2	14:N:94:ASP:CB	2.20	0.69
1:A:40:LEU:H	1:A:41:LEU:N	1.90	0.69
1:A:704:ARG:NH1	4:D:455:GLY:C	2.39	0.69
1:A:819:VAL:HG21	1:A:905:SER:HB2	1.74	0.69
1:A:3304:GLU:CG	17:Q:55:LEU:H	2.03	0.69
2:B:444:LEU:C	5:E:515:LYS:CG	2.46	0.69
2:B:939:ASN:C	3:C:283:THR:HG23	2.09	0.69
3:C:192:PRO:HG2	3:C:232:TYR:HE2	1.57	0.69
3:C:2013:GLY:CA	19:C:4305:ADP:O1A	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:ASP:OD1	13:M:32:LYS:CG	2.40	0.69
4:D:177:ASN:ND2	13:M:60:ASN:CG	2.51	0.69
4:D:201:GLN:OE1	9:I:102:ASN:HB3	1.89	0.69
4:D:441:LEU:CD1	4:D:457:ALA:O	2.40	0.69
5:E:46:ASN:HB3	12:L:88:PHE:CD1	2.28	0.69
5:E:100:GLU:HA	5:E:105:PHE:HB3	1.75	0.69
5:E:378:GLN:HB2	5:E:422:SER:HB3	1.72	0.69
5:E:423:GLY:HA2	5:E:505:ILE:HD12	1.74	0.69
8:H:11:ILE:HG22	8:H:79:LEU:HB3	1.74	0.69
1:A:612:HIS:CG	4:D:501:LEU:HG	2.28	0.69
1:A:730:LEU:CD2	1:A:781:LEU:CD2	2.70	0.69
1:A:801:ILE:HG12	5:E:149:THR:HB	1.69	0.69
1:A:944:LEU:HD21	1:A:1017:LEU:CD2	2.23	0.69
1:A:970:TYR:CA	1:A:983:ALA:O	2.40	0.69
1:A:1444:GLN:HA	1:A:1561:VAL:N	2.06	0.69
1:A:3230:LEU:N	1:A:3233:ILE:HG21	2.07	0.69
1:A:3246:ALA:CB	17:Q:150:TYR:O	2.41	0.69
1:A:3269:LEU:CD2	17:Q:34:GLN:N	2.54	0.69
1:A:3273:TYR:HD1	1:A:3276:SER:N	1.90	0.69
1:A:3702:SER:CB	1:A:3712:LEU:HD11	2.22	0.69
2:B:36:GLN:H	2:B:39:ASP:CB	2.06	0.69
2:B:59:THR:O	2:B:81:ILE:CA	2.36	0.69
2:B:583:PRO:HB3	2:B:683:GLU:CG	2.23	0.69
2:B:762:ILE:HG23	2:B:766:ILE:HG13	1.69	0.69
2:B:966:LYS:CG	3:C:341:TRP:NE1	2.41	0.69
2:B:1132:GLU:O	2:B:1136:ASP:CG	2.36	0.69
2:B:1439:LYS:O	2:B:1443:LYS:HG3	1.91	0.69
2:B:1447:ILE:HG21	2:B:1504:TRP:HE1	0.53	0.69
2:B:3178:VAL:HG12	2:B:3395:LEU:HD11	1.75	0.69
2:B:3264:ASN:CA	2:B:3306:ILE:HD11	2.23	0.69
2:B:3297:PHE:CE2	2:B:3302:ILE:HD13	2.27	0.69
3:C:136:ALA:HB2	3:C:168:ASN:HA	1.74	0.69
3:C:250:LYS:HG3	3:C:273:VAL:HG12	1.75	0.69
3:C:336:ILE:HD12	3:C:336:ILE:N	2.08	0.69
3:C:2365:GLY:O	19:C:4306:ADP:H5'2	1.92	0.69
4:D:109:PHE:CD2	15:O:121:TYR:CD2	2.80	0.69
4:D:401:GLN:HB3	4:D:417:ILE:CG2	2.23	0.69
4:D:529:ASP:OD2	4:D:532:TYR:CE2	2.45	0.69
4:D:576:LEU:HD13	4:D:576:LEU:C	2.16	0.69
6:F:91:GLN:CD	6:F:96:THR:HG21	2.17	0.69
1:A:761:LEU:CD1	1:A:872:ASP:OD2	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3257:VAL:HG11	1:A:3266:VAL:HG22	1.75	0.69
1:A:3257:VAL:HG13	1:A:3266:VAL:HA	1.72	0.69
1:A:3285:ASN:O	1:A:3289:LYS:HG3	1.93	0.69
1:A:3307:GLU:CG	17:Q:30:LYS:CA	2.47	0.69
2:B:789:LYS:CG	2:B:839:LEU:CD1	2.66	0.69
2:B:1116:PHE:HA	2:B:1119:LYS:HZ3	1.57	0.69
2:B:1208:LYS:HA	2:B:1208:LYS:CE	2.20	0.69
3:C:801:LEU:CB	3:C:824:MET:CE	2.70	0.69
4:D:90:ASP:OD2	13:M:32:LYS:HE3	1.93	0.69
4:D:517:ILE:HD13	4:D:527:ILE:CG2	2.17	0.69
1:A:789:LYS:O	5:E:433:TRP:HH2	1.75	0.69
1:A:850:SER:O	5:E:204:ASN:CB	2.41	0.69
1:A:1487:VAL:HA	1:A:1490:PHE:CZ	2.28	0.69
1:A:1504:VAL:CG2	1:A:1565:CYS:HB3	2.16	0.69
1:A:1544:ILE:HG12	1:A:1580:LYS:HG2	1.75	0.69
1:A:3442:LYS:HD2	1:A:3485:THR:N	2.08	0.69
2:B:2333:PRO:CA	20:B:5403:ATP:N1	2.55	0.69
2:B:3143:LEU:HD23	2:B:3698:LEU:HD13	1.73	0.69
3:C:2727:ILE:HD11	3:C:2745:LYS:CB	2.20	0.69
3:C:2740:ILE:CG1	3:C:2744:LYS:CB	2.59	0.69
4:D:395:HIS:NE2	4:D:399:VAL:HG13	2.00	0.69
4:D:499:HIS:CD2	4:D:528:TRP:HH2	2.11	0.69
5:E:20:PHE:CA	14:N:90:ASP:OD1	2.35	0.69
5:E:116:VAL:HG11	6:F:99:ALA:HB2	1.74	0.69
9:I:26:ASN:CB	9:I:98:PHE:HE2	2.04	0.69
11:K:39:GLU:N	11:K:39:GLU:OE1	2.24	0.69
12:L:77:ILE:HA	13:M:63:SER:HB2	1.72	0.69
1:A:1596:ARG:HD3	1:A:1603:TYR:CD1	2.28	0.68
1:A:3244:PHE:O	17:Q:125:GLY:CA	2.41	0.68
2:B:969:LEU:O	2:B:969:LEU:HD23	1.93	0.68
3:C:2726:THR:CA	3:C:2729:LEU:CG	2.61	0.68
3:C:2892:ARG:HG2	3:C:3184:LEU:O	1.93	0.68
1:A:3236:ILE:CG2	1:A:3333:LEU:N	2.56	0.68
2:B:581:ASN:ND2	5:E:184:MET:HE1	2.08	0.68
2:B:582:MET:O	5:E:186:PHE:HB3	1.93	0.68
2:B:844:LEU:O	2:B:844:LEU:HD23	1.92	0.68
3:C:352:LEU:O	3:C:352:LEU:HD13	1.93	0.68
4:D:201:GLN:OE1	9:I:102:ASN:HA	1.93	0.68
5:E:99:ILE:HD11	6:F:31:ILE:CD1	2.19	0.68
5:E:456:PRO:HD2	5:E:481:GLN:HB3	1.74	0.68
1:A:821:LEU:O	1:A:912:ARG:HD3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:933:VAL:CG2	1:A:951:ILE:HD11	2.24	0.68
1:A:1026:LEU:HD23	1:A:1026:LEU:C	2.17	0.68
1:A:1148:GLU:OE2	12:L:51:LYS:HE3	1.91	0.68
1:A:1623:ILE:HD11	1:A:1680:ILE:CD1	2.17	0.68
1:A:3222:GLU:HB3	1:A:3328:ALA:CB	2.17	0.68
1:A:3222:GLU:CB	1:A:3328:ALA:CB	2.69	0.68
1:A:3273:TYR:CG	1:A:3276:SER:HB3	2.28	0.68
3:C:2726:THR:HA	3:C:2729:LEU:HD12	0.69	0.68
4:D:398:PRO:HD2	4:D:398:PRO:O	1.93	0.68
6:F:11:LEU:CD2	6:F:23:TYR:CZ	2.51	0.68
6:F:19:GLY:CA	6:F:107:ILE:HD11	2.23	0.68
6:F:91:GLN:HE21	6:F:96:THR:HG21	1.55	0.68
8:H:46:LYS:CE	9:I:86:ASP:HB2	2.03	0.68
15:O:19:LEU:HD23	15:O:19:LEU:O	1.94	0.68
1:A:706:GLY:N	4:D:453:LEU:HD21	2.02	0.68
1:A:1088:TRP:O	1:A:1092:TRP:CD1	2.46	0.68
1:A:1458:MET:HE3	1:A:1518:TRP:CH2	2.28	0.68
1:A:3322:ALA:HB2	1:A:3333:LEU:HD12	1.74	0.68
2:B:736:LEU:HD12	2:B:859:TYR:CG	2.28	0.68
2:B:3238:HIS:CE1	2:B:3335:LYS:CG	2.63	0.68
3:C:2830:VAL:HG12	3:C:2834:ARG:NE	2.07	0.68
4:D:174:GLN:HB3	12:L:51:LYS:CB	2.22	0.68
8:H:60:ILE:HA	9:I:85:TYR:HB3	1.75	0.68
12:L:77:ILE:HG23	13:M:63:SER:CB	2.20	0.68
14:N:116:ALA:O	15:O:131:PHE:HD1	1.75	0.68
1:A:819:VAL:CA	1:A:840:TYR:HE2	2.05	0.68
1:A:1100:LEU:HD22	1:A:1163:LEU:HB2	1.74	0.68
1:A:1101:HIS:HA	1:A:1163:LEU:HD12	1.75	0.68
1:A:1517:LEU:HD11	1:A:1582:GLU:HG2	1.74	0.68
1:A:3220:ILE:HG22	1:A:3224:LYS:HE3	1.75	0.68
2:B:555:LEU:HG	2:B:625:LEU:CD2	2.24	0.68
2:B:783:MET:CE	2:B:847:VAL:CG2	2.71	0.68
2:B:899:LEU:CD1	2:B:900:PHE:N	2.52	0.68
2:B:2192:CYS:SG	20:B:5403:ATP:C8	2.86	0.68
3:C:10:LEU:HD21	3:C:66:ASN:N	2.08	0.68
3:C:2639:ASP:HB3	3:C:2643:GLU:HG3	1.74	0.68
3:C:2639:ASP:CA	3:C:2643:GLU:HG3	2.24	0.68
4:D:174:GLN:HA	13:M:62:GLY:HA2	0.75	0.68
4:D:517:ILE:HD11	4:D:550:TRP:CZ2	2.28	0.68
13:M:71:LYS:HG3	13:M:86:LYS:HD3	1.74	0.68
1:A:700:LYS:HE2	4:D:455:GLY:HA3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:10:PRO:C	2:B:25:GLN:CA	2.60	0.68
2:B:555:LEU:HD23	2:B:625:LEU:HD22	0.68	0.68
2:B:899:LEU:CD1	2:B:900:PHE:CD1	2.77	0.68
2:B:1458:PHE:CE1	2:B:1560:MET:O	2.46	0.68
2:B:1529:TYR:HB2	2:B:1549:PHE:HZ	1.58	0.68
3:C:2725:ALA:O	3:C:2729:LEU:CG	2.40	0.68
5:E:48:ILE:CG1	12:L:88:PHE:CZ	2.77	0.68
5:E:110:LYS:CG	6:F:10:GLN:CD	2.67	0.68
6:F:81:THR:CG2	7:G:114:VAL:CG2	2.42	0.68
6:F:81:THR:HG22	7:G:123:LEU:HD23	1.75	0.68
7:G:61:GLU:OE1	7:G:61:GLU:N	2.26	0.68
1:A:1596:ARG:HH21	1:A:1610:LEU:HD23	1.58	0.68
1:A:1639:PHE:CE1	1:A:1653:ILE:HG12	2.28	0.68
2:B:436:PHE:HD2	2:B:463:PHE:CZ	2.11	0.68
2:B:952:PRO:CG	3:C:223:THR:CA	0.70	0.68
3:C:359:GLY:CA	3:C:440:TYR:CB	2.72	0.68
3:C:2800:PRO:CB	3:C:2818:VAL:CG2	2.71	0.68
4:D:177:ASN:OD1	13:M:60:ASN:CG	2.36	0.68
5:E:24:GLU:OE2	14:N:91:THR:CG2	2.41	0.68
1:A:604:ALA:HB3	1:A:698:GLU:CG	2.24	0.68
1:A:730:LEU:HD21	1:A:781:LEU:CD2	2.17	0.68
1:A:739:ARG:HH11	1:A:743:LYS:NZ	1.92	0.68
1:A:818:LEU:HB2	1:A:844:LYS:HG3	1.76	0.68
1:A:3251:ILE:C	17:Q:62:ILE:CA	2.67	0.68
2:B:58:SER:N	2:B:71:CYS:CB	2.56	0.68
2:B:531:LEU:HD21	2:B:540:LEU:HD11	1.71	0.68
2:B:746:GLU:O	2:B:750:PRO:HD3	1.93	0.68
3:C:113:ILE:HD11	3:C:185:PHE:CE1	2.29	0.68
3:C:834:VAL:HG22	3:C:881:ILE:HD11	1.75	0.68
3:C:2723:PHE:HZ	3:C:2745:LYS:HE3	1.57	0.68
4:D:517:ILE:HG13	4:D:550:TRP:CZ2	2.29	0.68
4:D:590:LEU:HD23	4:D:604:VAL:HG13	1.71	0.68
9:I:20:ILE:C	9:I:100:ASN:HD21	2.02	0.68
11:K:36:TYR:HD2	11:K:41:LYS:HB3	1.58	0.68
16:P:53:LEU:O	16:P:57:ILE:N	2.25	0.68
1:A:785:HIS:NE2	4:D:391:ARG:NH2	2.39	0.68
1:A:1067:PRO:C	1:A:1078:THR:OG1	2.36	0.68
1:A:1551:ILE:HA	1:A:1554:LYS:HE2	1.76	0.68
1:A:3247:ARG:HA	17:Q:105:ASN:O	1.94	0.68
2:B:658:GLN:CD	2:B:672:ASN:O	2.37	0.68
3:C:2640:ALA:HA	3:C:2643:GLU:CB	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2701:ILE:CD1	3:C:2704:LYS:HG3	2.23	0.68
6:F:73:ASP:OD1	6:F:73:ASP:O	2.11	0.68
9:I:24:ILE:HG23	9:I:98:PHE:CD1	2.29	0.68
12:L:28:GLN:HA	12:L:28:GLN:NE2	2.07	0.68
1:A:307:LEU:O	1:A:311:LYS:CB	2.42	0.68
1:A:763:LEU:C	1:A:763:LEU:CD1	2.67	0.68
1:A:791:LEU:O	1:A:795:ILE:HG13	1.93	0.68
1:A:1433:LEU:HD21	1:A:1481:PHE:CD2	2.28	0.68
2:B:966:LYS:HG3	3:C:341:TRP:HE1	1.57	0.68
3:C:346:LEU:H	3:C:346:LEU:HD13	1.59	0.68
4:D:517:ILE:CD1	4:D:527:ILE:CG1	2.71	0.68
6:F:62:VAL:HG21	7:G:106:LEU:CD1	2.12	0.68
1:A:607:ILE:HD13	1:A:655:PHE:HD2	1.59	0.67
1:A:800:ASP:CG	5:E:147:SER:C	2.46	0.67
1:A:1458:MET:SD	1:A:1548:TRP:HD1	2.16	0.67
1:A:3293:PHE:CE1	1:A:3335:TRP:HH2	2.11	0.67
2:B:58:SER:N	2:B:70:LYS:C	2.51	0.67
2:B:408:THR:O	2:B:412:LEU:HB3	1.93	0.67
2:B:741:ILE:HD13	2:B:776:LEU:CD1	2.20	0.67
2:B:938:PHE:HD2	2:B:956:LEU:HD11	1.59	0.67
2:B:1608:ARG:HG3	2:B:1638:PHE:HE1	1.58	0.67
15:O:34:ILE:HG23	15:O:71:ILE:HD12	1.76	0.67
1:A:670:LEU:HD23	1:A:670:LEU:C	2.19	0.67
1:A:791:LEU:HD11	1:A:795:ILE:HD11	1.77	0.67
1:A:3191:LYS:HE2	1:A:3360:GLU:HG2	1.76	0.67
1:A:3651:GLN:HE22	1:A:3837:THR:HG22	1.60	0.67
2:B:673:PHE:CE1	2:B:677:LEU:CD1	2.75	0.67
2:B:957:GLN:CD	3:C:252:ASN:ND2	2.52	0.67
2:B:1531:ILE:HD12	2:B:1595:LEU:HD13	1.76	0.67
2:B:3173:ILE:HG22	2:B:3177:LYS:HE3	1.76	0.67
3:C:258:ALA:HB1	3:C:357:ILE:HD13	1.77	0.67
3:C:2365:GLY:HA2	19:C:4306:ADP:H5'2	1.74	0.67
3:C:2698:LEU:HD21	3:C:2768:LEU:HB3	1.76	0.67
12:L:77:ILE:HG13	13:M:65:ILE:HD11	1.73	0.67
15:O:31:PRO:HB3	15:O:109:ASN:HD21	1.59	0.67
1:A:722:LYS:O	1:A:726:TYR:CD2	2.43	0.67
1:A:732:TYR:CD1	4:D:391:ARG:HB2	2.29	0.67
1:A:1515:GLN:O	1:A:1519:THR:OG1	2.10	0.67
1:A:2042:ARG:HG3	1:A:2278:ASN:HA	1.75	0.67
1:A:3306:LEU:CD1	1:A:3310:LEU:CG	2.72	0.67
2:B:789:LYS:CB	2:B:839:LEU:HD13	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1238:LYS:NZ	2:B:1308:LEU:CA	2.56	0.67
2:B:3829:VAL:HG11	2:B:3946:ILE:CD1	2.24	0.67
3:C:29:VAL:CG2	3:C:92:ALA:O	2.42	0.67
3:C:2708:GLN:HG3	3:C:2809:ALA:HB1	1.76	0.67
3:C:2721:GLU:HB2	3:C:2803:MET:HE2	0.70	0.67
3:C:2793:LEU:C	3:C:2796:PRO:CG	2.68	0.67
4:D:177:ASN:CG	13:M:60:ASN:CG	2.62	0.67
10:J:21:PHE:CZ	10:J:37:LEU:HD21	2.29	0.67
15:O:95:LEU:HD12	15:O:95:LEU:C	2.20	0.67
1:A:670:LEU:HD21	1:A:772:TRP:HD1	1.55	0.67
2:B:551:TYR:HD2	2:B:622:VAL:CG1	2.06	0.67
3:C:24:HIS:CD2	3:C:325:SER:OG	2.45	0.67
4:D:77:PRO:HA	15:O:102:LEU:HD23	1.76	0.67
14:N:85:ILE:HB	14:N:98:ILE:CD1	2.14	0.67
1:A:7:SER:C	1:A:9:ARG:H	2.02	0.67
1:A:704:ARG:CZ	4:D:457:ALA:N	2.58	0.67
1:A:1126:VAL:CG2	1:A:1131:SER:OG	2.42	0.67
1:A:1452:LYS:CA	1:A:1458:MET:N	2.52	0.67
1:A:3236:ILE:CG2	1:A:3333:LEU:CA	2.72	0.67
1:A:3345:LYS:HE3	1:A:3345:LYS:HA	1.77	0.67
2:B:872:SER:HB2	2:B:965:ILE:HD11	1.75	0.67
2:B:888:PRO:CA	2:B:891:ILE:HG22	2.24	0.67
2:B:1467:PHE:CG	2:B:1470:LEU:HD11	2.27	0.67
2:B:3119:LYS:HB3	2:B:3119:LYS:HZ3	1.57	0.67
3:C:2730:LEU:HD23	3:C:2738:ILE:CD1	2.25	0.67
3:C:2792:TYR:C	3:C:2796:PRO:CG	2.48	0.67
3:C:2827:ILE:O	3:C:2831:GLU:HG3	1.93	0.67
5:E:23:THR:HG23	14:N:88:TYR:CD1	2.28	0.67
1:A:50:LEU:O	1:A:102:ALA:CB	2.40	0.67
1:A:3421:SER:HB2	1:A:3716:LEU:HD21	1.76	0.67
2:B:792:LYS:HE3	2:B:796:ASN:ND2	2.10	0.67
2:B:1058:LYS:HB2	2:B:1166:GLU:CG	2.24	0.67
2:B:1317:LEU:HA	16:P:61:GLU:HA	1.55	0.67
2:B:3764:LEU:HD11	2:B:3816:LEU:HD21	1.77	0.67
2:B:3938:MET:HA	2:B:3938:MET:HE2	1.76	0.67
3:C:53:PRO:CG	3:C:81:PRO:HB2	2.21	0.67
3:C:753:ILE:CB	3:C:820:SER:HB2	2.25	0.67
4:D:97:LYS:HE3	13:M:32:LYS:HE2	1.75	0.67
4:D:569:TYR:CZ	4:D:578:LYS:CD	2.74	0.67
5:E:266:THR:HG21	5:E:320:THR:CA	2.11	0.67
7:G:119:PRO:HG3	9:I:16:ARG:NH2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:19:MET:HB2	9:I:22:LYS:CG	2.24	0.67
1:A:753:LEU:HD23	1:A:753:LEU:C	2.19	0.67
1:A:805:ARG:H	5:E:150:LEU:HA	1.57	0.67
1:A:1139:LEU:C	4:D:169:ASN:ND2	2.49	0.67
1:A:1146:GLN:CD	13:M:9:ALA:HB3	2.08	0.67
1:A:1632:ASP:OD1	1:A:1842:LYS:NZ	2.27	0.67
1:A:3304:GLU:HB2	17:Q:78:SER:CA	2.18	0.67
2:B:783:MET:CE	2:B:847:VAL:HG21	2.25	0.67
2:B:794:LEU:CA	2:B:797:PHE:HD2	2.03	0.67
2:B:861:ASP:OD2	3:C:171:ARG:CD	2.42	0.67
2:B:1474:MET:HE2	2:B:1515:VAL:HG11	1.57	0.67
2:B:3153:LEU:HD12	2:B:3707:LEU:CD1	1.95	0.67
2:B:3267:ILE:CG2	2:B:3271:ASP:HB2	2.24	0.67
3:C:2638:ALA:O	3:C:2639:ASP:C	2.37	0.67
3:C:2793:LEU:O	3:C:2796:PRO:CG	2.43	0.67
4:D:288:ARG:NH1	4:D:585:VAL:HG11	2.10	0.67
5:E:23:THR:HG22	14:N:88:TYR:CD1	2.23	0.67
6:F:45:ALA:HA	6:F:48:ILE:HG22	1.77	0.67
8:H:58:HIS:HD2	9:I:87:VAL:CG1	2.00	0.67
10:J:32:CYS:SG	10:J:96:ILE:HG12	2.33	0.67
10:J:48:LEU:HD12	10:J:100:ILE:HD12	1.74	0.67
1:A:755:HIS:CE1	1:A:869:TYR:CG	2.81	0.67
1:A:1416:ILE:O	1:A:1420:THR:HG23	1.95	0.67
1:A:1642:ALA:HB3	1:A:1652:GLN:HB2	1.76	0.67
1:A:3317:PHE:HD1	1:A:3333:LEU:CD2	2.06	0.67
2:B:799:VAL:HB	2:B:800:LYS:N	2.09	0.67
2:B:1429:GLU:O	2:B:1433:VAL:HG23	1.95	0.67
3:C:163:GLY:HA2	3:C:174:PHE:CD2	2.30	0.67
3:C:2899:LEU:HD23	3:C:2899:LEU:C	2.20	0.67
4:D:553:TYR:HE1	4:D:595:PHE:HZ	1.40	0.67
1:A:1100:LEU:HD22	1:A:1163:LEU:HD12	1.76	0.67
1:A:1597:LYS:HZ2	1:A:1962:ILE:CD1	2.08	0.67
1:A:3269:LEU:HD21	17:Q:33:PHE:O	1.90	0.67
2:B:969:LEU:HD12	3:C:343:ASN:CG	2.18	0.67
2:B:1447:ILE:HG12	2:B:1480:HIS:ND1	2.09	0.67
2:B:1507:LYS:CD	2:B:1571:GLU:OE1	2.41	0.67
3:C:2018:GLN:HG3	19:C:4305:ADP:C2'	2.24	0.67
4:D:106:ILE:CD1	15:O:99:SER:OG	2.39	0.67
4:D:570:ASP:H	4:D:579:LEU:HD13	1.58	0.67
5:E:46:ASN:OD1	12:L:88:PHE:CZ	2.47	0.67
12:L:77:ILE:HA	13:M:63:SER:OG	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:70:THR:OG1	14:N:111:SER:OG	2.12	0.67
1:A:586:VAL:HG21	4:D:523:TRP:CE2	2.28	0.67
1:A:596:LEU:HD23	1:A:602:PRO:HA	1.74	0.67
1:A:670:LEU:HD23	1:A:670:LEU:O	1.94	0.67
1:A:732:TYR:HB2	4:D:390:VAL:CB	2.25	0.67
1:A:801:ILE:CG1	5:E:149:THR:HG21	2.12	0.67
1:A:943:THR:CA	1:A:944:LEU:N	2.57	0.67
1:A:1031:ILE:CG2	1:A:1034:SER:HG	2.05	0.67
1:A:1126:VAL:O	1:A:1126:VAL:HG12	1.95	0.67
1:A:1570:LEU:H	1:A:1570:LEU:HD12	1.60	0.67
2:B:501:ARG:HH12	4:D:491:GLN:NE2	1.90	0.67
2:B:794:LEU:HB3	2:B:797:PHE:HE2	1.59	0.67
2:B:1531:ILE:HD13	2:B:1618:LEU:CD2	2.24	0.67
3:C:39:LEU:HD13	3:C:39:LEU:O	1.95	0.67
3:C:85:HIS:HA	3:C:99:GLY:O	1.95	0.67
3:C:360:PRO:N	3:C:361:PRO:HD2	2.10	0.67
3:C:2800:PRO:HA	3:C:2814:CYS:HB3	1.76	0.67
5:E:68:THR:HB	8:H:70:THR:HG22	1.77	0.67
5:E:80:TRP:O	8:H:80:TYR:CZ	2.48	0.67
5:E:420:THR:CG2	5:E:472:SER:O	2.42	0.67
10:J:82:LYS:HG3	11:K:65:HIS:HE2	1.60	0.67
11:K:84:GLN:OE1	11:K:84:GLN:N	2.27	0.67
1:A:886:ILE:O	1:A:890:TYR:HD1	1.78	0.66
2:B:682:LYS:HZ2	5:E:186:PHE:HE1	1.30	0.66
2:B:883:ASN:CA	2:B:886:ILE:HG22	2.24	0.66
3:C:2593:ARG:NH2	3:C:2597:GLU:CG	2.58	0.66
4:D:285:PRO:CB	4:D:584:ILE:HG22	2.25	0.66
5:E:190:PRO:HD2	5:E:193:MET:HE2	1.77	0.66
14:N:84:GLN:HG3	15:O:61:GLU:CA	2.23	0.66
1:A:57:TYR:CA	1:A:103:ASP:HA	2.24	0.66
1:A:1417:GLU:O	1:A:1421:GLU:CG	2.40	0.66
1:A:3124:ILE:CD1	1:A:3425:GLU:HG3	2.24	0.66
2:B:3:ASP:CB	2:B:7:LYS:N	2.56	0.66
2:B:1474:MET:HE1	2:B:1515:VAL:CG1	2.23	0.66
3:C:2799:THR:O	3:C:2803:MET:HG2	1.95	0.66
4:D:297:LYS:HZ3	4:D:328:LEU:HD13	1.59	0.66
5:E:46:ASN:C	12:L:88:PHE:CD1	2.72	0.66
1:A:837:GLN:NE2	1:A:958:ALA:HB1	2.01	0.66
1:A:841:ILE:HD13	1:A:961:ALA:CB	2.23	0.66
1:A:906:LEU:CD1	1:A:998:VAL:CG1	1.85	0.66
1:A:1448:GLY:N	1:A:1460:ASN:O	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3117:PHE:CE2	1:A:3429:TRP:CZ3	2.83	0.66
1:A:3269:LEU:HD21	17:Q:33:PHE:C	2.18	0.66
2:B:3289:ALA:O	2:B:3293:LYS:HG3	1.95	0.66
3:C:36:PHE:CE2	3:C:97:VAL:HG11	2.30	0.66
4:D:208:TYR:CZ	9:I:100:ASN:CB	2.76	0.66
4:D:395:HIS:CG	4:D:418:SER:HB3	2.30	0.66
4:D:590:LEU:N	4:D:590:LEU:HD12	2.11	0.66
6:F:54:ASP:OD2	7:G:109:LYS:NZ	2.24	0.66
10:J:43:GLU:OE2	10:J:43:GLU:HA	1.95	0.66
12:L:75:GLN:CB	13:M:65:ILE:HG23	2.19	0.66
1:A:597:VAL:CG1	4:D:460:LEU:CD1	2.71	0.66
1:A:1100:LEU:CD2	1:A:1163:LEU:HD12	2.25	0.66
1:A:1195:GLU:OE2	13:M:12:MET:N	2.29	0.66
1:A:2037:GLN:HE22	1:A:4479:GLN:HE22	1.42	0.66
1:A:3335:TRP:CZ2	1:A:3339:ILE:HD11	2.29	0.66
2:B:732:VAL:O	2:B:735:PRO:HG2	1.95	0.66
3:C:2687:ALA:HB2	3:C:2830:VAL:HG21	1.77	0.66
5:E:48:ILE:CA	12:L:88:PHE:HE2	2.08	0.66
6:F:81:THR:OG1	7:G:121:ASN:ND2	2.27	0.66
14:N:72:ILE:CB	15:O:97:ILE:CD1	2.73	0.66
1:A:805:ARG:HH12	5:E:152:LEU:CD2	2.07	0.66
1:A:935:VAL:HG11	1:A:1017:LEU:CD2	2.25	0.66
1:A:1100:LEU:HD21	1:A:1159:MET:HE3	1.75	0.66
1:A:1146:GLN:CG	13:M:9:ALA:HB3	2.05	0.66
2:B:409:SER:O	2:B:413:PHE:CA	2.43	0.66
2:B:429:LEU:HD11	2:B:489:PHE:CD1	2.30	0.66
2:B:501:ARG:NH1	4:D:491:GLN:OE1	2.19	0.66
2:B:642:LEU:C	2:B:642:LEU:HD13	2.21	0.66
2:B:1119:LYS:HB3	2:B:1138:LYS:CD	2.25	0.66
4:D:532:TYR:CZ	4:D:652:MET:HE2	2.30	0.66
6:F:56:TRP:CZ2	6:F:91:GLN:CD	2.51	0.66
8:H:70:THR:O	9:I:76:GLN:NE2	2.27	0.66
1:A:709:ILE:CD1	4:D:454:ILE:HG21	2.25	0.66
1:A:729:GLU:CB	4:D:391:ARG:HH12	2.08	0.66
1:A:1423:ALA:O	1:A:1427:LEU:CG	2.42	0.66
1:A:2298:LEU:HD11	20:A:4702:ATP:C6	2.30	0.66
2:B:532:THR:H	2:B:536:ILE:CD1	2.06	0.66
5:E:50:LEU:CD2	12:L:23:PHE:HB2	2.24	0.66
5:E:258:GLU:H	5:E:258:GLU:CD	2.03	0.66
5:E:435:ASP:HB2	5:E:446:ILE:HG21	1.75	0.66
6:F:37:GLU:OE1	6:F:37:GLU:HA	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:58:SER:C	7:G:59:GLU:HA	2.18	0.66
1:A:899:LEU:CD1	1:A:992:ASP:OD2	2.35	0.66
1:A:970:TYR:C	1:A:983:ALA:O	2.39	0.66
1:A:2839:LEU:CD1	19:A:4703:ADP:N3	2.55	0.66
2:B:2863:VAL:HG21	2:B:3059:VAL:HG22	1.77	0.66
3:C:2018:GLN:CD	19:C:4305:ADP:H2'	2.20	0.66
3:C:2694:ALA:HA	3:C:2819:ASN:HB3	1.78	0.66
5:E:21:GLN:HG2	5:E:21:GLN:O	1.95	0.66
5:E:30:ILE:HD12	5:E:30:ILE:O	1.94	0.66
15:O:95:LEU:HD12	15:O:95:LEU:O	1.96	0.66
1:A:854:GLU:OE1	5:E:203:LEU:O	2.14	0.66
1:A:1199:LYS:NZ	13:M:13:GLU:HG2	2.11	0.66
3:C:272:SER:OG	3:C:322:GLU:HG3	1.96	0.66
3:C:2774:VAL:HG12	3:C:2780:VAL:HG22	1.77	0.66
7:G:125:PHE:CZ	7:G:136:MET:HE2	2.31	0.66
14:N:25:PHE:CZ	14:N:103:ILE:CG2	2.47	0.66
1:A:614:PHE:CE1	1:A:648:LEU:HG	2.31	0.66
1:A:1066:VAL:HG12	1:A:1068:THR:H	1.61	0.66
1:A:1638:THR:CB	1:A:1655:GLN:HG2	2.23	0.66
1:A:2298:LEU:HD21	20:A:4702:ATP:C8	2.31	0.66
1:A:3124:ILE:HD13	1:A:3425:GLU:CG	2.24	0.66
1:A:3307:GLU:N	1:A:3308:PRO:HD2	2.11	0.66
2:B:669:ILE:HB	2:B:719:VAL:HG11	0.90	0.66
3:C:2581:LEU:CD1	3:C:2937:TYR:CZ	2.79	0.66
3:C:2593:ARG:HH21	3:C:2597:GLU:HB2	1.61	0.66
3:C:2636:LYS:O	3:C:2640:ALA:HB2	1.96	0.66
4:D:134:LYS:HB2	4:D:134:LYS:NZ	2.11	0.66
4:D:292:GLU:OE1	4:D:292:GLU:N	2.19	0.66
4:D:569:TYR:HH	4:D:578:LYS:CD	1.98	0.66
4:D:572:ASN:HD21	4:D:643:LYS:HD2	1.61	0.66
5:E:112:LEU:HD23	6:F:97:MET:HE2	1.77	0.66
7:G:111:ARG:HH21	7:G:139:PRO:HB2	1.60	0.66
11:K:89:LEU:HD12	11:K:89:LEU:C	2.21	0.66
1:A:597:VAL:HG22	4:D:502:ALA:HB3	1.77	0.66
1:A:617:ILE:CD1	1:A:647:GLN:HE22	2.02	0.66
1:A:794:LEU:HD13	1:A:794:LEU:O	1.95	0.66
1:A:3194:ALA:HB3	1:A:3356:VAL:HG22	1.77	0.66
2:B:1329:PRO:CB	2:B:1413:GLU:N	2.59	0.66
2:B:4314:ILE:HD12	2:B:4391:ILE:HG23	1.76	0.66
3:C:34:ILE:HG23	3:C:57:VAL:CG1	2.26	0.66
3:C:143:PRO:HG3	3:C:187:TRP:NE1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:297:LYS:HB3	4:D:316:LEU:HB3	1.78	0.66
6:F:48:ILE:HD13	6:F:98:LEU:HD23	1.63	0.66
8:H:12:LYS:HE2	8:H:80:TYR:CZ	2.30	0.66
10:J:77:HIS:ND1	11:K:70:VAL:HG23	2.05	0.66
1:A:803:GLU:HG2	5:E:148:LYS:CD	2.22	0.65
1:A:818:LEU:O	1:A:818:LEU:HD22	1.95	0.65
1:A:906:LEU:HB3	1:A:998:VAL:CG1	2.27	0.65
1:A:1013:VAL:CA	1:A:1016:PHE:HE1	2.09	0.65
1:A:3241:LEU:CD1	17:Q:104:TYR:CD1	2.53	0.65
1:A:3442:LYS:HD2	1:A:3485:THR:HA	1.77	0.65
2:B:804:ARG:NH1	2:B:898:PRO:O	2.28	0.65
2:B:3453:LEU:HD22	2:B:3492:ILE:HD12	1.76	0.65
3:C:354:VAL:HG21	3:C:357:ILE:CG1	2.21	0.65
3:C:2740:ILE:CB	3:C:2744:LYS:O	2.39	0.65
4:D:93:THR:HG22	4:D:95:LYS:HG2	1.78	0.65
4:D:417:ILE:CD1	4:D:474:VAL:HG23	2.26	0.65
5:E:20:PHE:CG	15:O:80:LYS:CE	2.61	0.65
5:E:377:ASN:HD22	5:E:377:ASN:N	1.94	0.65
13:M:84:LEU:HD12	13:M:84:LEU:O	1.95	0.65
1:A:1511:TRP:CA	1:A:1574:LEU:CD1	2.73	0.65
1:A:2696:MET:HE2	19:A:4701:ADP:C8	2.32	0.65
1:A:3249:ILE:HD11	1:A:3273:TYR:HA	1.78	0.65
1:A:3267:LEU:N	1:A:3267:LEU:HD12	2.11	0.65
1:A:3308:PRO:CD	17:Q:57:LEU:CA	2.73	0.65
2:B:411:ALA:HA	2:B:414:VAL:HG23	1.78	0.65
2:B:952:PRO:N	3:C:223:THR:HA	2.09	0.65
2:B:1377:PRO:CB	2:B:1424:GLU:OE2	2.44	0.65
2:B:1595:LEU:HD23	2:B:1595:LEU:O	1.96	0.65
3:C:2639:ASP:C	3:C:2643:GLU:H	2.03	0.65
3:C:2779:GLN:C	3:C:2780:VAL:HG23	2.21	0.65
4:D:331:LEU:HD12	4:D:331:LEU:N	2.11	0.65
8:H:35:CYS:HB3	8:H:40:GLU:HB3	1.79	0.65
15:O:22:LEU:HD12	15:O:23:ASN:OD1	1.94	0.65
1:A:596:LEU:HD12	1:A:596:LEU:N	2.11	0.65
1:A:634:ILE:HG23	1:A:638:TYR:CZ	2.25	0.65
1:A:1126:VAL:CG1	1:A:1131:SER:C	2.62	0.65
1:A:1596:ARG:NH1	1:A:1909:LYS:HE3	2.11	0.65
2:B:429:LEU:HD11	2:B:489:PHE:CE1	2.31	0.65
2:B:492:PHE:HA	2:B:495:LYS:HD2	1.77	0.65
2:B:1447:ILE:CG2	2:B:1504:TRP:CE2	2.47	0.65
3:C:287:PHE:HB3	3:C:320:PRO:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:354:VAL:HG13	3:C:357:ILE:HB	1.78	0.65
5:E:112:LEU:CD2	6:F:97:MET:CE	2.74	0.65
9:I:81:GLU:OE1	9:I:102:ASN:CB	2.45	0.65
15:O:31:PRO:HD3	15:O:109:ASN:HD22	1.62	0.65
17:Q:7:CYS:O	17:Q:11:ILE:N	2.27	0.65
1:A:944:LEU:HD21	1:A:1017:LEU:HD21	1.76	0.65
1:A:1274:GLY:CA	4:D:160:GLN:OE1	2.44	0.65
1:A:1276:GLN:CD	4:D:153:HIS:ND1	2.54	0.65
1:A:3099:TYR:CE1	1:A:3447:VAL:HG12	2.31	0.65
1:A:3249:ILE:HD11	1:A:3273:TYR:CA	2.27	0.65
2:B:762:ILE:O	2:B:766:ILE:HG13	1.95	0.65
2:B:1242:GLN:O	2:B:1251:SER:CA	2.44	0.65
10:J:97:TYR:HB2	10:J:106:LEU:HD13	1.79	0.65
12:L:77:ILE:N	12:L:77:ILE:HD12	2.11	0.65
14:N:82:SER:HG	15:O:57:ASN:CG	2.05	0.65
1:A:666:SER:CB	1:A:695:LEU:HD13	2.27	0.65
1:A:1862:MET:HE1	1:A:1920:TRP:CH2	2.31	0.65
1:A:3099:TYR:HA	1:A:3451:THR:CG2	2.24	0.65
1:A:3212:VAL:HG23	1:A:3338:ALA:HB1	1.79	0.65
2:B:837:GLN:OE1	2:B:837:GLN:HA	1.95	0.65
2:B:1423:TYR:O	2:B:1427:VAL:HG23	1.96	0.65
2:B:2189:GLY:HA2	20:B:5403:ATP:C5'	2.25	0.65
2:B:3234:LEU:HD11	2:B:3336:LEU:CD2	2.26	0.65
3:C:269:PHE:HB2	3:C:291:SER:HB3	1.77	0.65
3:C:972:LEU:HD21	3:C:1017:MET:CE	2.27	0.65
3:C:3732:HIS:CG	3:C:3757:LEU:HD12	2.32	0.65
6:F:35:ARG:HE	6:F:41:SER:HB2	1.62	0.65
11:K:42:ILE:HG22	11:K:62:VAL:HG21	1.79	0.65
12:L:75:GLN:HB2	13:M:65:ILE:HG23	1.76	0.65
14:N:24:VAL:HG13	14:N:25:PHE:CD2	2.31	0.65
18:R:98:MET:C	18:R:100:GLY:H	2.03	0.65
1:A:121:GLY:N	2:B:106:LYS:HA	2.06	0.65
1:A:700:LYS:CE	4:D:455:GLY:CA	2.72	0.65
1:A:1596:ARG:HG2	1:A:1603:TYR:CZ	2.32	0.65
2:B:467:VAL:HG13	2:B:471:THR:OG1	1.91	0.65
2:B:734:GLU:N	2:B:735:PRO:HD2	2.12	0.65
1:A:732:TYR:H	4:D:390:VAL:CG2	2.10	0.65
1:A:1126:VAL:HG12	1:A:1132:LEU:HD12	1.79	0.65
1:A:3386:ASN:O	1:A:3390:VAL:CG2	2.40	0.65
2:B:10:PRO:CA	2:B:25:GLN:C	2.41	0.65
2:B:952:PRO:C	3:C:282:ARG:NH1	2.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3238:HIS:ND1	2:B:3335:LYS:CG	2.51	0.65
2:B:3257:ARG:HG2	2:B:3276:VAL:HG11	1.79	0.65
3:C:2431:ILE:HG23	3:C:2486:MET:HE1	1.79	0.65
3:C:2770:ASN:O	3:C:2774:VAL:HG23	1.97	0.65
4:D:543:MET:SD	4:D:563:MET:HB3	2.36	0.65
5:E:72:GLY:HA2	8:H:68:PHE:HA	1.79	0.65
10:J:101:GLU:OE1	10:J:101:GLU:HA	1.95	0.65
1:A:797:ASN:CA	5:E:450:HIS:CE1	2.79	0.65
1:A:850:SER:CA	5:E:204:ASN:CB	2.74	0.65
1:A:1118:LEU:HD22	1:A:1118:LEU:H	1.61	0.65
1:A:1642:ALA:HB2	1:A:1652:GLN:CB	2.26	0.65
1:A:3255:GLU:OE1	1:A:3269:LEU:C	2.34	0.65
3:C:268:ILE:CD1	3:C:301:TRP:CZ2	2.80	0.65
3:C:1738:PHE:CE2	3:C:1770:MET:HE1	2.31	0.65
3:C:2635:LYS:O	3:C:2643:GLU:OE2	2.14	0.65
3:C:2725:ALA:C	3:C:2729:LEU:HG	2.21	0.65
4:D:421:GLY:HA3	4:D:441:LEU:CD1	2.22	0.65
4:D:571:LEU:HD13	4:D:647:TYR:CD2	2.31	0.65
10:J:48:LEU:HD23	10:J:60:ILE:HD13	1.77	0.65
1:A:332:PRO:N	1:A:380:ARG:CB	2.59	0.65
1:A:669:ALA:HB1	1:A:689:ASP:OD2	1.95	0.65
1:A:801:ILE:CG1	5:E:149:THR:OG1	2.41	0.65
1:A:1450:TRP:CD1	1:A:1518:TRP:HZ3	2.14	0.65
1:A:3194:ALA:HB1	1:A:3356:VAL:HG22	1.69	0.65
1:A:3249:ILE:CD1	17:Q:106:PHE:HZ	1.95	0.65
2:B:1058:LYS:HD3	2:B:1167:MET:SD	2.37	0.65
2:B:1470:LEU:C	2:B:1474:MET:HG2	2.21	0.65
2:B:1612:LEU:HD21	2:B:1637:CYS:SG	2.36	0.65
2:B:3164:VAL:HG11	2:B:3409:ALA:CB	2.23	0.65
2:B:3231:VAL:HG13	2:B:3339:TRP:CD1	2.32	0.65
4:D:175:THR:CB	13:M:61:PHE:H	2.08	0.65
5:E:252:ILE:HG13	5:E:253:MET:HG2	1.79	0.65
6:F:50:ALA:HB2	8:H:83:GLN:CG	2.26	0.65
10:J:77:HIS:CG	11:K:70:VAL:HG23	2.32	0.65
1:A:600:MET:CE	4:D:458:CYS:HB2	2.27	0.65
1:A:690:LEU:N	1:A:690:LEU:HD12	2.12	0.65
1:A:948:LEU:CG	1:A:1010:LYS:HG2	2.26	0.65
1:A:1205:GLN:CG	4:D:166:PHE:HE2	1.99	0.65
1:A:3269:LEU:HD23	17:Q:34:GLN:N	2.07	0.65
2:B:441:LYS:O	5:E:518:ASN:ND2	2.30	0.65
2:B:902:ILE:HG21	2:B:1076:LEU:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1069:THR:HB	2:B:1070:PRO:CD	2.25	0.65
4:D:109:PHE:CD2	15:O:121:TYR:HE2	2.13	0.65
5:E:22:ASP:HB2	14:N:91:THR:N	2.12	0.65
8:H:84:LEU:HD12	8:H:84:LEU:N	2.12	0.65
9:I:67:LEU:HD12	9:I:75:TRP:CE2	2.32	0.65
1:A:700:LYS:HD3	4:D:456:LEU:O	1.98	0.64
1:A:871:LEU:HD23	1:A:875:VAL:HG11	1.72	0.64
1:A:1158:GLU:HG2	11:K:16:SER:HB2	1.77	0.64
1:A:3110:LEU:HD12	1:A:3443:LEU:CD2	2.22	0.64
1:A:3232:ILE:HD13	1:A:3316:TRP:CZ3	2.25	0.64
2:B:1145:LYS:O	2:B:1149:ASP:CB	2.46	0.64
2:B:1467:PHE:HB2	2:B:1470:LEU:HD11	1.70	0.64
2:B:1705:LYS:HG2	2:B:1825:TRP:CD1	2.32	0.64
2:B:3231:VAL:O	2:B:3339:TRP:CD1	2.51	0.64
3:C:214:LEU:HD13	3:C:232:TYR:O	1.97	0.64
4:D:184:GLY:HA2	11:K:69:TYR:CD1	2.28	0.64
4:D:265:ARG:HB2	5:E:125:GLN:CG	2.27	0.64
6:F:74:ILE:HD12	6:F:77:ILE:CD1	2.23	0.64
8:H:52:ARG:HA	18:R:63:ASN:CA	2.26	0.64
9:I:5:LYS:HA	9:I:9:ASP:HB2	1.78	0.64
9:I:77:CYS:CB	9:I:107:ILE:HG22	2.24	0.64
15:O:45:ARG:CG	15:O:63:LEU:CD1	2.74	0.64
15:O:52:ASP:N	15:O:53:PRO:CD	2.58	0.64
1:A:576:TYR:CE1	1:A:624:PHE:N	2.65	0.64
1:A:580:LEU:HD21	1:A:640:SER:N	2.12	0.64
1:A:597:VAL:O	1:A:600:MET:HB2	1.98	0.64
1:A:1162:LEU:O	1:A:1162:LEU:HD23	1.97	0.64
2:B:521:PHE:CZ	2:B:605:LYS:HB3	2.32	0.64
2:B:1116:PHE:N	2:B:1119:LYS:NZ	2.44	0.64
2:B:1119:LYS:HB3	2:B:1138:LYS:HD3	1.77	0.64
2:B:1212:ILE:HG22	2:B:1213:PRO:HD2	1.78	0.64
2:B:1237:ARG:HH21	2:B:1262:ASP:CB	2.10	0.64
2:B:3826:THR:HG22	2:B:3942:LEU:HD21	1.77	0.64
3:C:180:LEU:HD23	3:C:187:TRP:CE2	2.32	0.64
3:C:2794:ASN:N	3:C:2796:PRO:HD3	2.11	0.64
5:E:58:GLU:HB3	10:J:89:VAL:HG22	1.78	0.64
8:H:62:GLY:HA2	9:I:83:TYR:HA	1.79	0.64
10:J:79:PHE:CG	11:K:68:ALA:HB1	2.32	0.64
1:A:95:PHE:CA	1:A:124:THR:CB	2.75	0.64
1:A:717:LEU:CD2	4:D:455:GLY:N	2.58	0.64
1:A:837:GLN:NE2	1:A:958:ALA:CB	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:952:GLN:HG2	1:A:1006:ILE:HG21	1.79	0.64
1:A:1136:MET:CG	4:D:166:PHE:CD1	2.78	0.64
1:A:3191:LYS:HG2	1:A:3360:GLU:HG3	1.79	0.64
2:B:578:LEU:HD23	2:B:587:GLY:HA3	1.79	0.64
3:C:2903:LEU:HD23	3:C:2903:LEU:C	2.22	0.64
4:D:75:LEU:CG	15:O:102:LEU:HD11	2.25	0.64
4:D:106:ILE:HD12	4:D:106:ILE:O	1.97	0.64
4:D:348:ALA:HB1	4:D:368:TYR:HB2	1.80	0.64
4:D:532:TYR:OH	4:D:652:MET:HE2	1.97	0.64
5:E:395:VAL:HG22	5:E:402:ILE:HD12	1.76	0.64
17:Q:175:ASN:HA	17:Q:179:TYR:O	1.98	0.64
1:A:805:ARG:NH1	5:E:152:LEU:HD23	2.07	0.64
1:A:992:ASP:OD2	1:A:995:ILE:HG12	1.97	0.64
1:A:1143:ARG:NE	13:M:67:HIS:NE2	2.45	0.64
1:A:3250:PRO:CA	17:Q:62:ILE:O	2.45	0.64
2:B:439:LEU:HD23	2:B:439:LEU:C	2.23	0.64
2:B:952:PRO:HG2	3:C:223:THR:CA	0.58	0.64
2:B:3235:LYS:HB3	2:B:3237:PRO:HD2	1.77	0.64
3:C:96:LEU:HD12	3:C:96:LEU:C	2.22	0.64
3:C:192:PRO:CG	3:C:232:TYR:HE2	2.09	0.64
5:E:24:GLU:CD	14:N:91:THR:HG22	2.21	0.64
1:A:612:HIS:HA	4:D:500:LEU:CD1	2.25	0.64
1:A:1201:TYR:HA	1:A:1204:LYS:HB2	1.79	0.64
2:B:595:LEU:HD23	5:E:389:TRP:CH2	2.33	0.64
2:B:595:LEU:HD21	5:E:389:TRP:HZ2	1.62	0.64
2:B:1127:ASN:HB2	2:B:1128:PRO:HD2	1.76	0.64
2:B:1330:TRP:HA	2:B:1410:PHE:HA	1.79	0.64
3:C:801:LEU:CB	3:C:824:MET:HE2	2.27	0.64
4:D:66:LEU:HB2	4:D:70:MET:HB2	1.80	0.64
4:D:114:ASP:OD2	5:E:43:ARG:N	2.30	0.64
4:D:170:THR:CG2	13:M:66:ILE:HA	2.21	0.64
4:D:265:ARG:HB2	5:E:125:GLN:CD	2.23	0.64
4:D:528:TRP:CE2	4:D:535:GLN:CB	2.80	0.64
5:E:20:PHE:HZ	15:O:80:LYS:CG	1.64	0.64
1:A:1162:LEU:HD23	1:A:1162:LEU:C	2.22	0.64
1:A:1205:GLN:CG	4:D:166:PHE:CD2	2.73	0.64
1:A:3128:THR:CG2	1:A:3422:LEU:HB3	2.28	0.64
1:A:3293:PHE:CE1	1:A:3335:TRP:CZ2	2.76	0.64
1:A:3446:ASN:OD1	1:A:3488:LEU:CD2	2.40	0.64
2:B:730:LEU:HD12	2:B:787:LEU:HD12	1.80	0.64
2:B:798:ASN:CB	2:B:874:ALA:CA	2.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3118:TYR:CB	2:B:3455:SER:CB	2.70	0.64
2:B:3178:VAL:HG12	2:B:3395:LEU:HD21	1.69	0.64
2:B:3445:LYS:CG	2:B:3487:PRO:HB3	2.27	0.64
3:C:195:ASN:O	3:C:239:TRP:CZ2	2.50	0.64
4:D:205:PHE:CZ	9:I:12:ILE:HG22	2.33	0.64
5:E:394:TRP:HE1	5:E:401:PRO:CD	2.10	0.64
8:H:16:MET:HE2	8:H:77:ILE:HD12	1.78	0.64
8:H:70:THR:H	9:I:76:GLN:HG2	1.62	0.64
1:A:156:VAL:CA	2:B:168:ILE:O	2.46	0.64
1:A:791:LEU:CD1	1:A:795:ILE:HD11	2.27	0.64
1:A:793:GLN:HB3	5:E:451:LYS:CA	2.19	0.64
1:A:3305:LEU:HD13	17:Q:102:LEU:HA	1.80	0.64
1:A:4301:MET:HE1	1:A:4412:ASP:HB2	1.78	0.64
2:B:53:ILE:O	2:B:87:LYS:HA	1.98	0.64
2:B:224:ASP:HA	2:B:347:ILE:CB	2.28	0.64
2:B:724:HIS:CE1	2:B:728:CYS:SG	2.90	0.64
3:C:114:LEU:HD13	3:C:114:LEU:O	1.97	0.64
3:C:136:ALA:HB2	3:C:168:ASN:OD1	1.98	0.64
3:C:2892:ARG:CD	3:C:3184:LEU:HB3	2.28	0.64
3:C:4049:ILE:HD11	3:C:4110:ALA:HB1	1.79	0.64
4:D:510:ASN:HD22	4:D:552:PRO:HA	1.61	0.64
5:E:16:ASN:CB	15:O:132:GLU:CB	2.52	0.64
5:E:492:ASP:HA	5:E:495:TYR:CD2	2.28	0.64
8:H:66:GLY:CA	9:I:56:ILE:HG22	1.99	0.64
1:A:326:PRO:O	1:A:376:ASN:CB	2.46	0.64
1:A:700:LYS:CE	4:D:455:GLY:HA3	2.27	0.64
1:A:753:LEU:HD23	1:A:753:LEU:O	1.97	0.64
1:A:806:ILE:CD1	1:A:890:TYR:CE2	2.78	0.64
1:A:906:LEU:CD1	1:A:998:VAL:CG2	2.75	0.64
1:A:1052:LEU:HD13	1:A:1166:TYR:CG	2.33	0.64
1:A:3212:VAL:HG13	1:A:3335:TRP:CD1	2.33	0.64
1:A:3269:LEU:HG	17:Q:35:ILE:HA	1.79	0.64
2:B:625:LEU:HD23	2:B:625:LEU:C	2.23	0.64
2:B:844:LEU:HD23	2:B:844:LEU:C	2.22	0.64
2:B:1458:PHE:CD1	2:B:1560:MET:CE	2.78	0.64
3:C:98:PHE:CD1	3:C:111:THR:HG22	2.33	0.64
5:E:189:MET:HB2	5:E:193:MET:HE3	1.80	0.64
8:H:62:GLY:HA3	9:I:83:TYR:CA	2.28	0.64
10:J:79:PHE:CE2	11:K:88:LEU:HD23	2.32	0.64
14:N:8:TYR:CE1	14:N:13:VAL:CG2	2.80	0.64
1:A:95:PHE:O	1:A:124:THR:CA	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:PHE:CE1	1:A:644:LEU:CB	2.81	0.64
1:A:3311:ASN:HB3	17:Q:30:LYS:O	1.97	0.64
2:B:700:ASP:O	2:B:703:THR:OG1	2.16	0.64
3:C:2745:LYS:HD2	3:C:2749:VAL:CG1	2.28	0.64
10:J:19:LYS:HG2	10:J:28:TRP:CD2	2.33	0.64
10:J:29:PRO:HB3	15:O:106:GLN:HE22	1.62	0.64
1:A:95:PHE:C	1:A:124:THR:CB	2.70	0.64
1:A:948:LEU:HD22	1:A:948:LEU:N	2.13	0.64
1:A:1433:LEU:CD1	1:A:1490:PHE:HD1	2.09	0.64
2:B:444:LEU:HD21	2:B:526:ASN:HB2	1.80	0.64
2:B:721:ASN:CG	2:B:773:VAL:HG12	2.23	0.64
2:B:731:PRO:O	2:B:735:PRO:HD3	1.96	0.64
2:B:927:ARG:HH12	2:B:976:LEU:CB	2.10	0.64
2:B:1051:ASP:CG	2:B:1162:THR:CG2	2.62	0.64
2:B:3422:LEU:HD21	2:B:3706:ILE:HG22	1.80	0.64
4:D:109:PHE:CE2	15:O:121:TYR:HD2	2.13	0.64
10:J:86:CYS:CB	11:K:61:VAL:HG22	2.26	0.64
14:N:81:ILE:HA	15:O:87:PHE:O	1.98	0.64
16:P:15:SER:C	16:P:16:GLU:C	2.66	0.64
1:A:935:VAL:HG21	1:A:1017:LEU:CD2	2.26	0.63
1:A:3268:PHE:CD2	17:Q:36:PRO:N	2.65	0.63
1:A:3290:LEU:HD21	1:A:3335:TRP:CH2	2.29	0.63
2:B:518:TYR:CD1	5:E:404:ARG:NH1	2.55	0.63
2:B:724:HIS:NE2	2:B:728:CYS:SG	2.71	0.63
2:B:883:ASN:HA	2:B:886:ILE:HG23	1.76	0.63
3:C:12:GLN:CG	3:C:69:TRP:HE1	2.12	0.63
4:D:174:GLN:NE2	12:L:50:GLU:N	2.46	0.63
5:E:271:LEU:N	5:E:271:LEU:HD12	2.13	0.63
5:E:384:LEU:CD2	5:E:417:TRP:NE1	2.61	0.63
6:F:52:VAL:HG23	6:F:89:ILE:HD13	1.79	0.63
14:N:86:THR:HG1	15:O:83:VAL:HG13	1.62	0.63
16:P:82:PHE:O	16:P:84:ALA:N	2.28	0.63
1:A:761:LEU:HD21	1:A:874:HIS:NE2	2.11	0.63
1:A:1143:ARG:NE	4:D:169:ASN:HB3	1.84	0.63
2:B:787:LEU:O	2:B:791:HIS:HD2	1.81	0.63
2:B:2544:LYS:H	19:B:5405:ADP:PA	2.18	0.63
2:B:3133:ILE:HG12	2:B:3440:LEU:HD13	1.80	0.63
2:B:3239:VAL:CG1	2:B:3291:ILE:HD11	2.28	0.63
2:B:3453:LEU:HD22	2:B:3492:ILE:CD1	2.27	0.63
3:C:2711:SER:C	3:C:2751:TRP:HZ2	2.06	0.63
3:C:2792:TYR:C	3:C:2796:PRO:HD3	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:252:VAL:CA	7:G:149:GLN:HE22	2.10	0.63
5:E:126:ILE:HG13	5:E:128:LEU:HG	1.79	0.63
7:G:125:PHE:HZ	7:G:136:MET:HE2	1.62	0.63
8:H:60:ILE:HA	9:I:85:TYR:CB	2.28	0.63
10:J:26:VAL:CG2	10:J:98:PHE:CB	2.72	0.63
10:J:52:GLU:H	10:J:52:GLU:CD	2.06	0.63
1:A:608:ILE:HD11	1:A:701:CYS:HB3	1.79	0.63
1:A:644:LEU:HA	1:A:647:GLN:HG3	1.79	0.63
1:A:841:ILE:CD1	1:A:961:ALA:CB	2.76	0.63
1:A:3242:VAL:CG2	17:Q:80:SER:CB	2.76	0.63
1:A:3247:ARG:C	17:Q:105:ASN:O	2.42	0.63
2:B:446:GLY:CA	5:E:512:GLU:OE2	2.43	0.63
2:B:555:LEU:HD23	2:B:625:LEU:CD1	2.29	0.63
2:B:789:LYS:CB	2:B:839:LEU:CD1	2.76	0.63
2:B:1455:VAL:CG1	2:B:1456:PHE:N	2.61	0.63
2:B:1456:PHE:CD1	2:B:1467:PHE:CD1	2.86	0.63
2:B:2904:THR:HG21	2:B:2911:ILE:HB	1.80	0.63
2:B:3085:VAL:HG23	2:B:3477:TRP:CE2	2.33	0.63
2:B:3269:LEU:H	2:B:3269:LEU:HD13	1.63	0.63
3:C:29:VAL:HG23	3:C:92:ALA:HA	1.80	0.63
3:C:2726:THR:O	3:C:2729:LEU:HB2	1.98	0.63
4:D:567:GLN:NE2	4:D:578:LYS:HE3	2.13	0.63
8:H:60:ILE:CB	9:I:85:TYR:HB3	2.28	0.63
1:A:14:LYS:CA	2:B:19:SER:O	2.45	0.63
1:A:397:ILE:C	1:A:489:LYS:CB	2.71	0.63
1:A:3421:SER:HB2	1:A:3716:LEU:CD2	2.28	0.63
2:B:1438:ALA:O	2:B:1442:LYS:HG3	1.98	0.63
2:B:2192:CYS:SG	20:B:5403:ATP:H2'	2.39	0.63
3:C:217:PHE:HB2	3:C:229:ILE:HG12	1.80	0.63
3:C:268:ILE:HD13	3:C:301:TRP:CH2	2.32	0.63
3:C:278:GLU:HA	3:C:278:GLU:OE1	1.99	0.63
3:C:2721:GLU:CA	3:C:2798:PHE:CZ	2.81	0.63
5:E:166:GLU:HA	5:E:166:GLU:OE2	1.98	0.63
5:E:343:LEU:CD2	5:E:358:ARG:HG2	2.28	0.63
6:F:74:ILE:HA	7:G:130:THR:HA	1.79	0.63
7:G:79:VAL:HG23	7:G:146:ILE:HD12	1.79	0.63
1:A:800:ASP:CB	5:E:147:SER:C	2.71	0.63
1:A:1028:LYS:C	1:A:1088:TRP:CH2	2.72	0.63
1:A:1634:ILE:CD1	1:A:1656:ILE:HG23	2.28	0.63
1:A:3121:LEU:HD23	1:A:3429:TRP:CG	2.32	0.63
1:A:3251:ILE:CB	17:Q:62:ILE:CB	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:899:LEU:HD12	2:B:900:PHE:H	1.58	0.63
2:B:910:GLY:HA2	2:B:995:TYR:HD1	1.59	0.63
2:B:958:GLU:OE1	2:B:958:GLU:N	2.31	0.63
2:B:1375:VAL:N	2:B:1420:LEU:CB	2.61	0.63
3:C:208:MET:HG3	3:C:208:MET:O	1.97	0.63
3:C:2639:ASP:C	3:C:2643:GLU:HG3	2.22	0.63
4:D:77:PRO:CA	15:O:102:LEU:HD23	2.27	0.63
4:D:180:ILE:CB	10:J:75:TYR:HE1	2.12	0.63
6:F:26:PHE:CE2	6:F:52:VAL:HG11	2.34	0.63
9:I:51:ALA:HB1	9:I:52:PRO:HD2	1.77	0.63
1:A:2496:GLY:HA2	19:A:4701:ADP:PB	2.38	0.63
1:A:3446:ASN:CG	1:A:3488:LEU:HD22	2.24	0.63
2:B:1116:PHE:CA	2:B:1119:LYS:HZ2	2.11	0.63
2:B:1487:MET:HA	2:B:3612:ASP:OD2	1.99	0.63
3:C:2698:LEU:C	3:C:2698:LEU:CD2	2.69	0.63
4:D:75:LEU:HD23	4:D:75:LEU:N	2.06	0.63
4:D:397:ASP:HB3	4:D:419:SER:HB3	1.78	0.63
4:D:648:GLU:HA	4:D:651:LYS:HE2	1.81	0.63
5:E:394:TRP:NE1	5:E:401:PRO:N	2.47	0.63
10:J:87:GLN:OE1	11:K:44:SER:CB	2.46	0.63
16:P:57:ILE:O	16:P:62:LYS:HA	1.99	0.63
1:A:669:ALA:CB	1:A:689:ASP:OD2	2.46	0.63
1:A:761:LEU:C	1:A:761:LEU:CD1	2.70	0.63
1:A:1069:TYR:CD1	1:A:1078:THR:CG2	2.80	0.63
1:A:3312:GLN:HG2	1:A:3312:GLN:O	1.97	0.63
2:B:532:THR:HG22	2:B:536:ILE:CD1	2.28	0.63
2:B:952:PRO:HG3	3:C:223:THR:C	1.79	0.63
2:B:1106:PHE:CZ	2:B:1160:ILE:CD1	2.76	0.63
2:B:1464:THR:O	2:B:1466:THR:HG23	1.99	0.63
2:B:1528:LEU:HD21	2:B:1591:CYS:HB3	1.81	0.63
2:B:3114:LEU:HD22	2:B:3460:TYR:CE2	2.34	0.63
3:C:898:TRP:O	3:C:902:LEU:HD13	1.99	0.63
3:C:1207:LEU:HD13	3:C:1214:TYR:CE1	2.34	0.63
3:C:2780:VAL:HG12	3:C:2786:ASN:ND2	2.14	0.63
3:C:2804:ALA:HA	3:C:2811:LYS:HB2	1.80	0.63
4:D:89:TYR:CE2	11:K:56:PRO:HG3	2.33	0.63
5:E:60:SER:HB3	10:J:87:GLN:CG	2.27	0.63
10:J:26:VAL:HA	10:J:98:PHE:HA	1.80	0.63
1:A:655:PHE:CZ	1:A:659:TRP:NE1	2.67	0.63
1:A:1069:TYR:HD1	1:A:1078:THR:HG21	1.62	0.63
1:A:3268:PHE:C	17:Q:35:ILE:HA	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3308:PRO:HD3	17:Q:57:LEU:CA	2.29	0.63
3:C:2584:LEU:HD21	3:C:2935:VAL:HG11	1.80	0.63
4:D:91:TYR:HE2	13:M:80:LEU:CB	1.93	0.63
4:D:174:GLN:HE21	12:L:51:LYS:N	1.86	0.63
5:E:119:CYS:HB3	6:F:88:ILE:CD1	2.15	0.63
5:E:310:LEU:CD1	5:E:358:ARG:HH12	2.03	0.63
10:J:26:VAL:HG23	10:J:98:PHE:HA	1.79	0.63
10:J:98:PHE:HE1	10:J:107:MET:HE2	1.64	0.63
16:P:24:ASN:N	16:P:96:GLY:HA2	2.14	0.63
1:A:1487:VAL:HA	1:A:1490:PHE:CE2	2.32	0.63
1:A:3245:LYS:HB2	17:Q:124:ILE:CA	2.24	0.63
2:B:500:GLU:CD	2:B:532:THR:CG2	2.72	0.63
2:B:552:LYS:HG3	2:B:622:VAL:HG22	1.79	0.63
2:B:914:ASP:N	2:B:915:PRO:HD2	2.14	0.63
2:B:1559:MET:HE2	2:B:1577:ARG:CD	2.25	0.63
2:B:2188:SER:O	20:B:5403:ATP:H5'2	1.99	0.63
2:B:3121:LEU:HD12	2:B:3451:SER:OG	1.99	0.63
2:B:3150:VAL:CG1	2:B:3423:VAL:HG22	2.14	0.63
2:B:3261:ILE:O	2:B:3306:ILE:HD13	1.99	0.63
4:D:261:TYR:HE1	5:E:126:ILE:CD1	1.94	0.63
8:H:29:LYS:HB2	8:H:29:LYS:NZ	2.14	0.63
1:A:326:PRO:CB	1:A:372:GLN:O	2.47	0.62
1:A:819:VAL:CA	1:A:840:TYR:CE2	2.82	0.62
1:A:1029:GLU:HA	1:A:1088:TRP:CH2	2.33	0.62
1:A:1600:PRO:HB2	1:A:1917:SER:HB3	1.81	0.62
1:A:3191:LYS:HB2	1:A:3191:LYS:HZ2	1.62	0.62
1:A:3267:LEU:CA	17:Q:35:ILE:O	2.31	0.62
2:B:1458:PHE:CZ	2:B:1563:VAL:HG12	2.34	0.62
2:B:3300:GLU:CD	2:B:3354:LYS:HZ2	2.05	0.62
4:D:172:GLU:HB2	12:L:51:LYS:HG2	1.80	0.62
4:D:392:ASN:O	4:D:435:PRO:HG3	1.98	0.62
5:E:304:LEU:HD13	5:E:353:VAL:HG11	1.80	0.62
5:E:395:VAL:HG23	5:E:402:ILE:HG13	1.80	0.62
6:F:35:ARG:HG3	6:F:41:SER:HA	1.80	0.62
1:A:612:HIS:CB	4:D:500:LEU:O	2.47	0.62
2:B:886:ILE:CD1	2:B:972:ILE:HG23	2.29	0.62
2:B:1129:ALA:HA	2:B:1132:GLU:OE2	1.98	0.62
2:B:2190:LYS:HE3	20:B:5403:ATP:O1B	1.98	0.62
2:B:3109:LYS:HE2	2:B:3113:GLU:OE2	1.99	0.62
3:C:24:HIS:NE2	3:C:325:SER:HB3	2.14	0.62
3:C:60:LEU:HD22	3:C:69:TRP:CH2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1397:MET:HE3	3:C:3759:ILE:HD12	1.80	0.62
4:D:105:MET:CE	14:N:47:THR:O	2.45	0.62
4:D:499:HIS:NE2	4:D:528:TRP:HH2	1.97	0.62
5:E:20:PHE:CZ	15:O:80:LYS:CE	2.73	0.62
5:E:258:GLU:OE1	5:E:258:GLU:N	2.19	0.62
6:F:56:TRP:CD2	6:F:91:GLN:CD	2.73	0.62
10:J:79:PHE:HA	11:K:68:ALA:HB2	1.81	0.62
1:A:598:ARG:CB	4:D:460:LEU:CD1	2.64	0.62
1:A:1619:GLU:HA	1:A:1619:GLU:OE1	1.99	0.62
1:A:3042:PHE:CZ	1:A:3100:LYS:CE	2.80	0.62
1:A:3255:GLU:OE1	1:A:3270:LYS:HA	1.99	0.62
2:B:59:THR:H	2:B:82:ASP:C	2.06	0.62
2:B:578:LEU:HD12	2:B:578:LEU:N	2.15	0.62
2:B:658:GLN:NE2	2:B:672:ASN:OD1	2.24	0.62
2:B:669:ILE:HD12	2:B:719:VAL:HG13	0.62	0.62
2:B:721:ASN:OD1	2:B:777:PHE:HD2	1.83	0.62
2:B:1110:GLN:C	2:B:1114:LEU:HG	2.13	0.62
2:B:3236:LYS:N	2:B:3237:PRO:HD2	2.14	0.62
3:C:10:LEU:HD13	3:C:10:LEU:C	2.24	0.62
3:C:4025:PRO:HG3	3:C:4165:MET:HE1	1.81	0.62
4:D:171:ARG:C	13:M:64:HIS:HB2	2.24	0.62
10:J:38:GLU:OE1	15:O:29:PHE:CZ	2.49	0.62
1:A:906:LEU:CB	1:A:998:VAL:CG1	2.77	0.62
1:A:1522:GLU:HA	1:A:1541:PHE:HZ	1.64	0.62
1:A:3251:ILE:HD12	17:Q:64:LYS:C	1.96	0.62
2:B:718:ILE:HD11	2:B:773:VAL:CG2	2.28	0.62
2:B:721:ASN:OD1	2:B:777:PHE:CD2	2.52	0.62
2:B:2237:VAL:HG22	2:B:2639:LEU:HD22	1.80	0.62
2:B:3118:TYR:HD2	2:B:3455:SER:CB	2.13	0.62
4:D:170:THR:HG21	13:M:66:ILE:CD1	2.23	0.62
4:D:503:VAL:HA	4:D:520:SER:HA	1.81	0.62
4:D:564:ASP:HA	4:D:590:LEU:HD13	1.80	0.62
5:E:48:ILE:CB	12:L:88:PHE:CE2	2.81	0.62
5:E:119:CYS:CB	6:F:88:ILE:CD1	2.75	0.62
16:P:24:ASN:HA	16:P:96:GLY:CA	2.28	0.62
1:A:868:LEU:N	1:A:868:LEU:HD12	2.14	0.62
2:B:733:GLU:CD	2:B:783:MET:CG	2.63	0.62
2:B:3139:GLY:HA2	2:B:3695:LEU:CD2	2.29	0.62
3:C:213:GLN:HG2	3:C:233:ASP:HB3	1.82	0.62
4:D:327:GLY:HA3	4:D:349:GLY:HA2	1.81	0.62
4:D:564:ASP:HA	4:D:590:LEU:CD1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:52:ASN:OD1	12:L:22:ARG:NH2	2.33	0.62
5:E:198:TYR:HB3	5:E:208:PRO:HB3	1.80	0.62
5:E:267:HIS:CD2	5:E:322:LEU:HB3	2.34	0.62
16:P:34:ASP:O	16:P:69:LEU:N	2.32	0.62
1:A:603:GLU:HA	1:A:603:GLU:OE2	1.99	0.62
1:A:704:ARG:NE	4:D:457:ALA:HB2	2.15	0.62
1:A:797:ASN:ND2	5:E:452:VAL:HA	2.13	0.62
1:A:1126:VAL:CG1	1:A:1131:SER:O	2.47	0.62
1:A:1146:GLN:HE21	13:M:9:ALA:CA	2.07	0.62
2:B:500:GLU:CD	2:B:532:THR:HG21	2.24	0.62
2:B:1447:ILE:HD13	2:B:1484:LEU:CB	2.29	0.62
2:B:2758:GLN:HE22	2:B:2834:TYR:H	1.47	0.62
3:C:2772:LYS:HD3	3:C:2772:LYS:C	2.25	0.62
4:D:242:LYS:HG2	7:G:60:VAL:HG22	1.81	0.62
5:E:30:ILE:HD12	5:E:30:ILE:C	2.24	0.62
1:A:614:PHE:HE1	1:A:644:LEU:HB3	1.62	0.62
1:A:732:TYR:CD1	4:D:391:ARG:CB	2.82	0.62
1:A:857:ARG:NH1	5:E:200:TRP:CD1	2.61	0.62
1:A:1142:ILE:CD1	1:A:1190:LEU:HD21	2.30	0.62
1:A:1386:ILE:N	1:A:1417:GLU:OE2	2.22	0.62
1:A:1436:ILE:HG23	1:A:1474:ASP:OD2	1.99	0.62
1:A:1616:GLN:OE1	1:A:1616:GLN:HA	1.99	0.62
1:A:3322:ALA:HB1	1:A:3330:ALA:HA	1.82	0.62
1:A:3442:LYS:HG3	1:A:3485:THR:HG22	1.81	0.62
2:B:3252:VAL:CG2	2:B:3330:SER:OG	2.47	0.62
3:C:143:PRO:CG	3:C:187:TRP:NE1	2.63	0.62
3:C:1983:THR:CB	19:C:4305:ADP:N6	2.60	0.62
3:C:2798:PHE:CG	3:C:2803:MET:SD	2.93	0.62
4:D:96:PHE:CD2	11:K:47:LYS:NZ	2.68	0.62
5:E:361:LEU:HD13	5:E:361:LEU:C	2.25	0.62
1:A:552:PHE:CA	1:A:568:ARG:HH12	2.13	0.62
1:A:732:TYR:H	4:D:390:VAL:HG21	1.65	0.62
1:A:794:LEU:C	1:A:794:LEU:CD1	2.71	0.62
1:A:847:PHE:CZ	1:A:851:LYS:NZ	2.66	0.62
1:A:1234:GLY:C	1:A:1252:PHE:CA	2.70	0.62
1:A:1505:ASN:C	1:A:1509:ASP:OD2	2.42	0.62
2:B:409:SER:HB2	2:B:413:PHE:CB	2.29	0.62
2:B:1474:MET:HE1	2:B:1515:VAL:HB	1.81	0.62
3:C:2640:ALA:N	3:C:2643:GLU:CD	2.58	0.62
3:C:2795:MET:N	3:C:2796:PRO:HD3	2.15	0.62
3:C:3227:ALA:HA	3:C:3393:ILE:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:99:ILE:HG23	7:G:103:ILE:HD12	1.82	0.62
7:G:120:THR:HG23	9:I:12:ILE:HG21	1.80	0.62
2:B:429:LEU:HB3	2:B:492:PHE:HE2	1.65	0.62
2:B:669:ILE:HD13	2:B:719:VAL:CG1	2.14	0.62
2:B:682:LYS:NZ	5:E:186:PHE:HE1	1.88	0.62
2:B:736:LEU:CD1	2:B:859:TYR:CB	2.72	0.62
2:B:792:LYS:HE3	2:B:796:ASN:HD21	1.65	0.62
2:B:1611:PHE:CE1	2:B:1923:MET:HG3	2.35	0.62
2:B:3155:GLU:HA	2:B:3155:GLU:OE2	1.98	0.62
4:D:66:LEU:H	4:D:66:LEU:CD2	2.13	0.62
4:D:106:ILE:O	15:O:99:SER:N	2.33	0.62
4:D:170:THR:HG21	13:M:66:ILE:HG13	1.68	0.62
4:D:294:GLN:HG3	4:D:297:LYS:HZ1	1.64	0.62
4:D:541:LEU:HD12	4:D:545:VAL:HG22	1.82	0.62
1:A:3252:GLN:NE2	17:Q:37:PRO:O	2.33	0.62
1:A:3290:LEU:CD2	1:A:3335:TRP:HZ2	1.95	0.62
2:B:783:MET:HE2	2:B:847:VAL:CG2	2.30	0.62
2:B:1107:ARG:HH21	2:B:1172:LYS:CE	2.12	0.62
3:C:190:LEU:HD23	3:C:232:TYR:OH	1.99	0.62
3:C:2708:GLN:OE1	3:C:2813:ILE:CG1	2.48	0.62
4:D:80:PRO:CD	15:O:103:TRP:CE2	2.83	0.62
4:D:184:GLY:N	11:K:69:TYR:CE1	2.68	0.62
14:N:84:GLN:CB	15:O:64:VAL:HG21	2.25	0.62
1:A:3260:LYS:HZ3	1:A:3267:LEU:HD22	1.65	0.61
2:B:902:ILE:HG12	2:B:915:PRO:HG3	1.82	0.61
2:B:2264:ASP:O	2:B:2625:ARG:NH2	2.33	0.61
2:B:3131:ARG:HD2	2:B:3131:ARG:C	2.25	0.61
3:C:1983:THR:CG2	19:C:4305:ADP:N1	2.61	0.61
4:D:364:ALA:HB1	4:D:414:PHE:CE1	2.34	0.61
4:D:588:PRO:HG2	4:D:606:ASP:CG	2.25	0.61
5:E:156:GLU:OE1	5:E:156:GLU:HA	1.98	0.61
5:E:366:HIS:HE1	5:E:394:TRP:CH2	2.16	0.61
1:A:53:ILE:CA	1:A:54:PHE:N	2.62	0.61
1:A:609:TRP:HD1	4:D:501:LEU:HD11	1.65	0.61
1:A:800:ASP:CA	5:E:148:LYS:CA	2.44	0.61
1:A:830:LEU:HD12	1:A:830:LEU:N	2.14	0.61
1:A:1276:GLN:CD	4:D:153:HIS:CE1	2.77	0.61
1:A:1524:VAL:CG2	1:A:1611:LEU:HD22	2.30	0.61
2:B:58:SER:H	2:B:71:CYS:CB	2.05	0.61
2:B:583:PRO:HA	5:E:186:PHE:CD2	2.34	0.61
2:B:721:ASN:CG	2:B:773:VAL:CG1	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:952:PRO:CA	3:C:223:THR:HA	2.28	0.61
2:B:1641:LEU:HD13	2:B:1662:MET:HB2	1.82	0.61
2:B:3694:LEU:HD21	2:B:3715:ASN:HB3	1.82	0.61
3:C:540:LYS:CB	3:C:705:LYS:H	2.12	0.61
3:C:2585:PHE:HB2	3:C:2932:SER:OG	2.00	0.61
3:C:2745:LYS:HG3	3:C:2745:LYS:O	2.00	0.61
4:D:91:TYR:HB2	13:M:28:VAL:HG11	1.82	0.61
5:E:91:GLU:N	5:E:91:GLU:OE1	2.33	0.61
6:F:26:PHE:CE1	6:F:49:ALA:CB	2.82	0.61
8:H:52:ARG:N	18:R:63:ASN:HA	2.14	0.61
12:L:80:LYS:HG2	12:L:103:LYS:HG2	1.81	0.61
1:A:590:GLN:OE1	1:A:590:GLN:HA	2.00	0.61
1:A:766:GLY:HA3	1:A:780:TYR:HE1	1.56	0.61
1:A:1013:VAL:HG13	1:A:1016:PHE:CE1	2.35	0.61
1:A:3449:LEU:CD2	1:A:3488:LEU:HD23	2.24	0.61
2:B:501:ARG:CZ	4:D:491:GLN:CB	2.78	0.61
2:B:572:MET:O	2:B:572:MET:HG2	2.00	0.61
2:B:1110:GLN:O	2:B:1114:LEU:CD2	2.49	0.61
2:B:1458:PHE:HZ	2:B:1563:VAL:HG12	1.64	0.61
2:B:3822:LEU:HD12	2:B:4282:LEU:HD13	1.81	0.61
3:C:2581:LEU:HD11	3:C:2936:SER:OG	1.99	0.61
6:F:11:LEU:HB3	6:F:23:TYR:CZ	2.35	0.61
1:A:155:GLY:C	2:B:168:ILE:O	2.43	0.61
1:A:801:ILE:CG2	1:A:862:LEU:CG	2.75	0.61
1:A:850:SER:C	5:E:204:ASN:CB	2.74	0.61
1:A:948:LEU:CB	1:A:1010:LYS:CD	2.79	0.61
1:A:1100:LEU:HD23	1:A:1100:LEU:O	1.99	0.61
1:A:1199:LYS:CE	13:M:13:GLU:HG2	2.31	0.61
1:A:1458:MET:SD	1:A:1552:MET:HG3	2.40	0.61
1:A:1567:ASN:HB3	1:A:1570:LEU:HD13	1.82	0.61
1:A:1644:ASP:N	1:A:1644:ASP:OD1	2.33	0.61
1:A:3124:ILE:CD1	1:A:3429:TRP:HD1	2.10	0.61
1:A:3271:GLU:CD	1:A:3272:SER:N	2.59	0.61
1:A:3293:PHE:HE1	1:A:3335:TRP:HZ2	1.47	0.61
2:B:429:LEU:HD22	2:B:492:PHE:CD2	2.35	0.61
2:B:581:ASN:CG	5:E:184:MET:HE3	2.26	0.61
2:B:648:VAL:HG22	2:B:680:LEU:HD11	1.82	0.61
2:B:876:GLN:O	2:B:880:LEU:HG	2.01	0.61
5:E:57:SER:O	10:J:90:HIS:O	2.18	0.61
5:E:58:GLU:CA	10:J:89:VAL:HA	2.29	0.61
5:E:343:LEU:HD22	5:E:358:ARG:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:TYR:N	4:D:390:VAL:CG2	2.64	0.61
1:A:1013:VAL:O	1:A:1016:PHE:CE1	2.54	0.61
1:A:1597:LYS:HE3	1:A:1962:ILE:HD11	1.82	0.61
2:B:89:ILE:N	2:B:100:THR:CB	2.60	0.61
2:B:730:LEU:CD1	2:B:787:LEU:CD1	2.78	0.61
2:B:790:ILE:HG12	2:B:836:ILE:HG23	1.81	0.61
2:B:900:PHE:HZ	2:B:933:TRP:CH2	2.17	0.61
2:B:969:LEU:HD23	2:B:969:LEU:C	2.25	0.61
3:C:29:VAL:HG12	3:C:95:MET:SD	2.40	0.61
4:D:361:ALA:N	5:E:133:PHE:CZ	2.68	0.61
4:D:499:HIS:CD2	4:D:528:TRP:CH2	2.88	0.61
13:M:82:LEU:C	13:M:82:LEU:HD23	2.26	0.61
1:A:659:TRP:CE2	1:A:702:LEU:HD11	2.30	0.61
1:A:2839:LEU:HD11	19:A:4703:ADP:C5	2.28	0.61
1:A:3260:LYS:HZ2	1:A:3315:ASP:HB3	1.64	0.61
2:B:408:THR:O	2:B:412:LEU:CB	2.49	0.61
2:B:598:ARG:NH1	5:E:389:TRP:CD1	2.68	0.61
2:B:638:ASP:HA	2:B:641:ILE:CG2	2.31	0.61
2:B:984:ASN:HA	2:B:987:ARG:CG	2.30	0.61
2:B:2191:THR:OG1	20:B:5403:ATP:O2A	2.18	0.61
2:B:3129:ILE:HD11	2:B:3447:MET:HG3	1.83	0.61
3:C:230:MET:SD	3:C:241:ASP:CG	2.84	0.61
3:C:504:ALA:HB3	3:C:525:LYS:CB	2.31	0.61
4:D:199:ILE:HG21	9:I:104:ALA:HB3	1.82	0.61
4:D:208:TYR:CE2	9:I:19:MET:HE3	2.36	0.61
1:A:576:TYR:HE1	1:A:620:PRO:C	2.06	0.61
1:A:635:ARG:HA	1:A:638:TYR:HD2	1.62	0.61
1:A:899:LEU:HD22	1:A:995:ILE:HD11	1.83	0.61
2:B:551:TYR:CD2	2:B:622:VAL:CG1	2.83	0.61
2:B:810:SER:HB2	2:B:813:ASP:CG	2.26	0.61
2:B:1456:PHE:CG	2:B:1467:PHE:CE1	2.87	0.61
2:B:2070:LYS:HD2	2:B:2309:ARG:HA	1.83	0.61
3:C:760:THR:CB	3:C:827:ILE:CG1	2.79	0.61
3:C:771:GLU:CA	3:C:838:TRP:CH2	2.78	0.61
3:C:1983:THR:HG22	19:C:4305:ADP:C6	2.34	0.61
3:C:2639:ASP:CB	3:C:2643:GLU:CD	2.68	0.61
3:C:2687:ALA:HB2	3:C:2830:VAL:CG2	2.31	0.61
5:E:16:ASN:CA	15:O:132:GLU:CG	2.74	0.61
8:H:11:ILE:HG22	8:H:79:LEU:CB	2.30	0.61
18:R:42:ASN:O	18:R:43:ILE:CB	2.49	0.61
1:A:604:ALA:CB	1:A:698:GLU:CG	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:LEU:HD12	1:A:998:VAL:HG21	1.82	0.61
1:A:1223:VAL:HG11	1:A:1279:LYS:O	2.00	0.61
1:A:1429:ILE:HG21	1:A:1490:PHE:CZ	2.31	0.61
1:A:1536:LEU:HD21	2:B:3891:GLU:CG	2.30	0.61
2:B:409:SER:C	2:B:413:PHE:H	2.09	0.61
2:B:791:HIS:NE2	2:B:866:ILE:HD13	2.15	0.61
2:B:956:LEU:HD11	2:B:960:ARG:HE	1.66	0.61
3:C:2018:GLN:OE1	19:C:4305:ADP:C2	2.53	0.61
3:C:2639:ASP:C	3:C:2643:GLU:N	2.58	0.61
3:C:2779:GLN:O	3:C:2780:VAL:CG2	2.49	0.61
4:D:201:GLN:OE1	9:I:102:ASN:CA	2.48	0.61
5:E:81:PRO:C	8:H:12:LYS:HZ1	2.09	0.61
7:G:64:LEU:HB3	7:G:76:TYR:CZ	2.36	0.61
16:P:39:TRP:CA	16:P:40:SER:N	2.64	0.61
1:A:607:ILE:HD13	1:A:655:PHE:CD2	2.36	0.61
1:A:617:ILE:HG21	1:A:644:LEU:HG	1.82	0.61
1:A:770:LEU:HD22	1:A:774:SER:CB	2.30	0.61
1:A:819:VAL:N	1:A:840:TYR:HE2	1.99	0.61
1:A:850:SER:CB	5:E:203:LEU:HD22	2.30	0.61
2:B:718:ILE:CD1	2:B:773:VAL:CB	2.72	0.61
2:B:861:ASP:CB	3:C:171:ARG:CD	2.77	0.61
2:B:1792:THR:HG22	2:B:2038:ASN:ND2	2.15	0.61
3:C:213:GLN:NE2	3:C:231:ILE:HD12	2.16	0.61
4:D:174:GLN:HE22	12:L:49:LEU:C	2.09	0.61
4:D:208:TYR:HE1	9:I:22:LYS:HB2	1.65	0.61
5:E:16:ASN:N	15:O:132:GLU:HG3	2.14	0.61
5:E:50:LEU:CD2	12:L:23:PHE:CB	2.78	0.61
6:F:24:VAL:O	6:F:97:MET:HB2	2.01	0.61
10:J:61:ALA:HB1	10:J:80:PHE:CE2	2.34	0.61
14:N:115:MET:CE	15:O:129:CYS:HB2	2.30	0.61
14:N:116:ALA:HB3	15:O:131:PHE:CZ	2.35	0.61
18:R:82:ALA:C	18:R:83:ASN:CB	2.73	0.61
1:A:753:LEU:N	1:A:754:PRO:HD2	2.15	0.61
1:A:857:ARG:CZ	5:E:207:SER:CA	2.68	0.61
1:A:3211:ALA:O	1:A:3215:ILE:HG13	2.01	0.61
2:B:1054:ILE:HG12	2:B:1098:TYR:HB3	1.82	0.61
2:B:1474:MET:HE1	2:B:1515:VAL:CB	2.30	0.61
2:B:2663:VAL:HG23	2:B:2668:GLN:HG3	1.83	0.61
2:B:3164:VAL:CG1	2:B:3409:ALA:CB	2.75	0.61
2:B:3231:VAL:CG2	2:B:3342:ASN:CB	2.78	0.61
3:C:205:ALA:HB1	3:C:216:ILE:HG22	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2702:SER:OG	3:C:2703:LYS:HD2	2.01	0.61
3:C:2720:PRO:O	3:C:2798:PHE:HZ	1.82	0.61
3:C:2743:ASN:CG	3:C:2789:LYS:HG3	2.26	0.61
5:E:395:VAL:HG21	5:E:402:ILE:CD1	1.87	0.61
1:A:1029:GLU:HA	1:A:1088:TRP:HZ2	1.60	0.60
1:A:3306:LEU:HA	1:A:3309:TYR:HD2	1.65	0.60
2:B:17:ARG:CB	2:B:21:ALA:HB3	2.30	0.60
2:B:1559:MET:HG2	2:B:1577:ARG:NH2	2.07	0.60
3:C:196:PRO:HA	3:C:239:TRP:CH2	2.17	0.60
3:C:2638:ALA:C	3:C:2640:ALA:N	2.46	0.60
4:D:90:ASP:OD2	13:M:32:LYS:CD	2.49	0.60
4:D:269:SER:CB	4:D:618:PRO:HD3	2.31	0.60
4:D:405:ASN:HB3	4:D:413:ASN:HB2	1.83	0.60
6:F:14:LEU:HD21	6:F:23:TYR:CB	1.97	0.60
1:A:590:GLN:O	1:A:609:TRP:CH2	2.54	0.60
1:A:967:LYS:O	1:A:967:LYS:HG2	1.99	0.60
1:A:1013:VAL:HG22	1:A:1076:LEU:HD11	1.83	0.60
1:A:1613:ILE:HD11	1:A:1626:ASP:CB	2.31	0.60
1:A:3244:PHE:HD1	17:Q:104:TYR:HH	0.63	0.60
1:A:3248:LEU:HD12	17:Q:103:SER:N	2.13	0.60
1:A:3251:ILE:HD11	17:Q:64:LYS:CB	2.30	0.60
2:B:690:LEU:HD12	2:B:690:LEU:O	2.00	0.60
2:B:910:GLY:HA2	2:B:995:TYR:CE1	2.36	0.60
2:B:938:PHE:CE2	3:C:343:ASN:CG	2.79	0.60
2:B:1058:LYS:HB2	2:B:1166:GLU:CB	2.28	0.60
2:B:1471:ASP:HA	2:B:1474:MET:HB2	1.83	0.60
3:C:13:THR:O	3:C:68:GLU:HA	2.00	0.60
3:C:357:ILE:O	3:C:357:ILE:HG22	2.02	0.60
4:D:186:SER:HB3	10:J:58:GLN:HB2	1.83	0.60
13:M:79:GLU:OE1	13:M:79:GLU:HA	2.01	0.60
14:N:75:GLN:HA	14:N:75:GLN:OE1	1.99	0.60
17:Q:68:LEU:CB	17:Q:92:ASP:CB	2.79	0.60
1:A:651:TYR:HA	1:A:654:TRP:HB3	1.83	0.60
1:A:704:ARG:CB	4:D:478:GLU:CD	2.52	0.60
1:A:804:ASN:HB2	5:E:148:LYS:C	2.26	0.60
1:A:1154:ASN:HB3	1:A:1155:PRO:HD3	1.83	0.60
1:A:1636:LYS:O	1:A:1657:GLN:HB2	2.01	0.60
1:A:3305:LEU:CD2	17:Q:79:LEU:CB	1.86	0.60
2:B:883:ASN:CA	2:B:886:ILE:CG2	2.71	0.60
2:B:938:PHE:HE2	3:C:343:ASN:CG	2.09	0.60
2:B:1595:LEU:HD23	2:B:1595:LEU:C	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:268:ILE:CD1	3:C:301:TRP:CH2	2.84	0.60
3:C:2581:LEU:HD13	3:C:2937:TYR:CZ	2.36	0.60
3:C:2703:LYS:HD2	3:C:2703:LYS:N	2.16	0.60
3:C:2725:ALA:HA	3:C:2728:TYR:CD2	2.35	0.60
3:C:2726:THR:CA	3:C:2729:LEU:HG	2.31	0.60
4:D:399:VAL:HG23	4:D:399:VAL:O	2.00	0.60
4:D:552:PRO:CG	4:D:595:PHE:HD2	2.13	0.60
7:G:119:PRO:CG	9:I:12:ILE:CG2	2.63	0.60
8:H:8:GLN:HA	8:H:8:GLN:OE1	2.00	0.60
9:I:89:VAL:HG11	9:I:108:PHE:HB2	1.83	0.60
14:N:8:TYR:OH	14:N:13:VAL:HG21	2.02	0.60
15:O:76:VAL:O	15:O:76:VAL:HG12	2.01	0.60
15:O:91:LYS:HB2	15:O:91:LYS:NZ	2.15	0.60
1:A:3250:PRO:C	17:Q:62:ILE:C	2.68	0.60
1:A:3269:LEU:HD22	17:Q:33:PHE:C	2.26	0.60
1:A:3273:TYR:HD1	1:A:3276:SER:H	1.47	0.60
2:B:690:LEU:O	2:B:691:ARG:HB2	2.01	0.60
2:B:945:GLN:O	2:B:945:GLN:HG2	2.00	0.60
3:C:3938:LEU:HD12	3:C:3982:LYS:HD3	1.81	0.60
4:D:80:PRO:HG3	15:O:103:TRP:CE2	2.28	0.60
13:M:80:LEU:C	13:M:80:LEU:HD23	2.27	0.60
15:O:81:ILE:HD12	15:O:81:ILE:N	2.15	0.60
1:A:600:MET:HE1	4:D:458:CYS:CB	2.31	0.60
1:A:717:LEU:HD21	4:D:455:GLY:CA	2.32	0.60
1:A:761:LEU:HD11	1:A:872:ASP:OD2	2.00	0.60
1:A:763:LEU:CD2	1:A:780:TYR:OH	2.49	0.60
1:A:800:ASP:O	5:E:148:LYS:C	2.45	0.60
1:A:818:LEU:C	1:A:840:TYR:HE2	2.10	0.60
1:A:1118:LEU:HD22	1:A:1118:LEU:N	2.17	0.60
1:A:3231:ASP:OD2	1:A:3258:PHE:CG	2.52	0.60
2:B:425:ASP:O	2:B:489:PHE:HZ	1.82	0.60
2:B:2512:VAL:HG11	2:B:2687:ILE:HA	1.83	0.60
3:C:128:ILE:HG22	3:C:128:ILE:O	2.01	0.60
3:C:2639:ASP:C	3:C:2643:GLU:CG	2.74	0.60
5:E:112:LEU:O	5:E:112:LEU:HD23	2.00	0.60
5:E:188:GLN:OE1	5:E:188:GLN:HA	2.00	0.60
1:A:696:ILE:HD13	1:A:720:GLU:HG3	1.83	0.60
1:A:1230:TYR:HA	1:A:1256:TYR:CA	2.21	0.60
1:A:1230:TYR:CB	1:A:1256:TYR:HA	2.32	0.60
1:A:1603:TYR:O	1:A:1909:LYS:HE2	2.01	0.60
1:A:2075:MET:HE2	1:A:2098:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:473:VAL:HG13	2:B:473:VAL:O	2.02	0.60
2:B:794:LEU:CD1	2:B:867:VAL:HA	2.31	0.60
2:B:805:LYS:HG3	2:B:805:LYS:O	2.01	0.60
2:B:902:ILE:HG23	2:B:915:PRO:CG	2.32	0.60
2:B:913:PHE:CE2	2:B:1078:ILE:CD1	2.79	0.60
3:C:258:ALA:HB1	3:C:357:ILE:CD1	2.31	0.60
3:C:4077:LEU:HD13	3:C:4105:MET:HG2	1.82	0.60
4:D:556:THR:HG22	4:D:644:ILE:HD12	1.84	0.60
4:D:601:ILE:HD11	4:D:613:LEU:HD13	1.84	0.60
8:H:11:ILE:O	8:H:11:ILE:HG13	2.01	0.60
9:I:87:VAL:HG12	9:I:89:VAL:HG13	1.82	0.60
1:A:52:LYS:O	1:A:105:LYS:HA	2.00	0.60
1:A:909:MET:HE1	1:A:955:ILE:CD1	2.28	0.60
1:A:1429:ILE:HG22	1:A:1490:PHE:CE1	2.37	0.60
1:A:2839:LEU:HA	19:A:4703:ADP:C2	2.37	0.60
2:B:309:ASP:O	2:B:313:LEU:N	2.22	0.60
2:B:453:THR:HG21	5:E:511:ARG:HD2	1.83	0.60
2:B:969:LEU:HD12	3:C:343:ASN:ND2	2.15	0.60
2:B:1205:PHE:HA	2:B:1208:LYS:HB2	1.84	0.60
2:B:1612:LEU:CG	2:B:1637:CYS:SG	2.89	0.60
2:B:3125:LYS:HE2	2:B:3447:MET:CG	2.32	0.60
3:C:163:GLY:HA2	3:C:174:PHE:HB2	1.84	0.60
3:C:2721:GLU:OE1	3:C:2814:CYS:CA	2.44	0.60
3:C:2726:THR:CA	3:C:2729:LEU:HD11	2.15	0.60
4:D:242:LYS:CG	7:G:60:VAL:CG2	2.75	0.60
4:D:292:GLU:H	4:D:292:GLU:CD	2.04	0.60
5:E:20:PHE:CD2	15:O:80:LYS:NZ	2.69	0.60
5:E:48:ILE:CG1	12:L:23:PHE:CE2	2.84	0.60
1:A:760:ASP:O	1:A:764:ARG:CG	2.47	0.60
1:A:801:ILE:N	5:E:149:THR:HB	2.15	0.60
1:A:935:VAL:CB	1:A:944:LEU:CD2	2.79	0.60
1:A:1634:ILE:HG23	1:A:1634:ILE:O	2.02	0.60
1:A:3250:PRO:CB	17:Q:62:ILE:O	2.49	0.60
1:A:3271:GLU:OE1	1:A:3272:SER:O	2.20	0.60
2:B:558:VAL:HG11	2:B:599:ILE:HD11	1.84	0.60
2:B:913:PHE:HE2	2:B:1078:ILE:HD11	1.66	0.60
2:B:1492:LYS:HZ1	2:B:3606:GLN:HB2	1.65	0.60
3:C:2738:ILE:HG22	3:C:2746:PRO:HD3	0.76	0.60
3:C:2760:SER:HB2	3:C:2763:GLU:HG2	1.82	0.60
4:D:92:TYR:HB3	13:M:29:LYS:HA	1.83	0.60
5:E:119:CYS:SG	6:F:88:ILE:HG21	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:76:VAL:HG22	6:F:90:THR:HG22	1.84	0.60
12:L:77:ILE:CG1	13:M:65:ILE:CD1	2.70	0.60
1:A:677:ARG:HH21	1:A:684:LEU:HD21	1.66	0.60
1:A:805:ARG:HG3	5:E:151:MET:CE	2.28	0.60
1:A:1862:MET:HE2	1:A:1973:PHE:HZ	1.67	0.60
2:B:512:ASP:O	2:B:515:ASP:OD1	2.18	0.60
2:B:1492:LYS:HZ1	2:B:3606:GLN:CD	2.02	0.60
2:B:3268:THR:HG22	2:B:3269:LEU:N	2.15	0.60
3:C:2581:LEU:HG	3:C:2936:SER:HB3	1.83	0.60
5:E:61:VAL:HG21	10:J:106:LEU:CG	2.32	0.60
10:J:27:LEU:HG	10:J:29:PRO:HD2	1.82	0.60
14:N:85:ILE:HG21	14:N:98:ILE:HD11	1.49	0.60
15:O:16:GLU:HA	15:O:16:GLU:OE2	2.01	0.60
15:O:91:LYS:HB2	15:O:91:LYS:HZ3	1.65	0.60
1:A:576:TYR:CE1	1:A:620:PRO:HA	2.36	0.60
1:A:800:ASP:HB2	5:E:147:SER:C	2.27	0.60
1:A:1012:LYS:HE2	1:A:1071:ILE:HB	0.67	0.60
1:A:1146:GLN:HA	1:A:1187:TRP:HZ2	1.67	0.60
1:A:1199:LYS:N	13:M:70:LYS:CE	2.63	0.60
2:B:448:LYS:HE3	2:B:452:LEU:HD21	1.84	0.60
2:B:532:THR:HG23	2:B:532:THR:O	2.02	0.60
2:B:567:GLN:HA	2:B:567:GLN:OE1	2.01	0.60
2:B:737:VAL:O	2:B:737:VAL:HG13	2.01	0.60
2:B:855:SER:O	3:C:169:TYR:CD2	2.55	0.60
2:B:966:LYS:CG	3:C:345:TRP:CE3	2.85	0.60
2:B:1458:PHE:CE1	2:B:1560:MET:CE	2.84	0.60
2:B:3251:GLY:HA3	2:B:3329:GLN:CD	2.26	0.60
3:C:2720:PRO:HB3	3:C:2798:PHE:CE2	2.12	0.60
4:D:128:GLU:OE1	4:D:128:GLU:HA	2.01	0.60
4:D:174:GLN:NE2	12:L:49:LEU:HB3	2.16	0.60
4:D:297:LYS:CE	4:D:316:LEU:CD2	2.71	0.60
4:D:412:TYR:HB2	4:D:428:LEU:HD22	1.84	0.60
4:D:529:ASP:CG	4:D:532:TYR:HD2	2.09	0.60
5:E:37:ILE:HG23	5:E:37:ILE:O	2.01	0.60
10:J:61:ALA:HB2	10:J:80:PHE:HZ	1.57	0.60
12:L:92:VAL:HG11	12:L:109:LYS:HD3	1.83	0.60
16:P:82:PHE:C	16:P:84:ALA:H	2.10	0.60
1:A:906:LEU:CG	1:A:998:VAL:CG1	2.56	0.59
1:A:997:LYS:NZ	18:R:149:LEU:O	2.28	0.59
1:A:1048:TYR:HE1	1:A:1100:LEU:HA	1.67	0.59
2:B:473:VAL:HG22	2:B:476:ASP:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:966:LYS:CG	3:C:343:ASN:C	2.58	0.59
2:B:1230:MET:CE	2:B:1267:TYR:N	2.64	0.59
2:B:1467:PHE:CE2	2:B:1560:MET:CE	2.85	0.59
2:B:3231:VAL:HG13	2:B:3343:ILE:HG13	1.84	0.59
2:B:3267:ILE:HG23	2:B:3271:ASP:HB2	1.84	0.59
3:C:3528:LEU:HB3	3:C:3868:CYS:SG	2.42	0.59
4:D:556:THR:HB	4:D:571:LEU:HG	1.84	0.59
5:E:323:GLU:OE1	5:E:323:GLU:HA	2.02	0.59
8:H:76:TYR:HD1	8:H:89:PHE:HB3	1.67	0.59
12:L:99:LEU:O	12:L:102:ARG:HG3	2.02	0.59
1:A:547:LYS:O	4:D:654:ASN:O	2.20	0.59
1:A:801:ILE:HG21	1:A:862:LEU:HD23	1.81	0.59
1:A:2676:TRP:CE2	1:A:2699:LEU:HD21	2.36	0.59
1:A:3301:GLU:O	17:Q:78:SER:CB	2.49	0.59
1:A:3384:ILE:O	1:A:3388:LYS:HG3	2.01	0.59
1:A:4599:CYS:O	1:A:4599:CYS:SG	2.60	0.59
2:B:177:PRO:CB	2:B:200:ILE:CB	2.79	0.59
2:B:582:MET:O	5:E:186:PHE:CB	2.50	0.59
2:B:801:ILE:HG12	2:B:937:PHE:CD1	2.34	0.59
2:B:954:ASP:CG	3:C:220:TRP:HE1	2.10	0.59
2:B:1511:VAL:C	2:B:1570:VAL:CG2	2.74	0.59
2:B:3143:LEU:CD2	2:B:3698:LEU:HD11	2.32	0.59
2:B:3314:ILE:HD12	2:B:3344:VAL:HG11	1.83	0.59
3:C:2746:PRO:HD2	3:C:2747:LYS:N	2.05	0.59
5:E:418:SER:HB2	5:E:426:PHE:HE1	1.66	0.59
5:E:452:VAL:HG21	5:E:478:ILE:HD12	1.84	0.59
8:H:77:ILE:HG22	8:H:88:LEU:HD11	1.84	0.59
10:J:74:PRO:CD	12:L:102:ARG:CZ	2.77	0.59
12:L:28:GLN:HA	12:L:28:GLN:HE21	1.65	0.59
1:A:700:LYS:HZ3	4:D:456:LEU:HG	1.67	0.59
1:A:801:ILE:HD13	1:A:862:LEU:HD23	1.84	0.59
1:A:948:LEU:HB2	1:A:1010:LYS:HD2	1.83	0.59
1:A:1270:GLU:CB	1:A:1277:ASN:OD1	2.50	0.59
1:A:3313:SER:HA	1:A:3317:PHE:CD2	2.34	0.59
2:B:467:VAL:CA	2:B:471:THR:OG1	2.49	0.59
2:B:508:THR:HG22	2:B:539:GLU:CD	2.28	0.59
2:B:658:GLN:OE1	2:B:674:ASP:HB2	2.01	0.59
2:B:966:LYS:HD3	3:C:345:TRP:CA	2.32	0.59
2:B:1055:THR:HG22	2:B:1166:GLU:OE1	2.01	0.59
2:B:1511:VAL:O	2:B:1570:VAL:HG22	2.03	0.59
2:B:3125:LYS:HE2	2:B:3447:MET:CB	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3162:VAL:HG12	2:B:3166:LYS:HE3	1.81	0.59
3:C:53:PRO:HD2	3:C:53:PRO:O	2.01	0.59
3:C:142:ALA:N	3:C:143:PRO:HD2	2.16	0.59
3:C:540:LYS:CB	3:C:701:ASN:O	2.50	0.59
3:C:2687:ALA:HA	3:C:2826:VAL:CG1	2.32	0.59
3:C:2711:SER:CB	3:C:2751:TRP:CH2	2.79	0.59
4:D:242:LYS:HG2	7:G:60:VAL:HG23	1.79	0.59
4:D:518:SER:OG	4:D:528:TRP:CH2	2.53	0.59
7:G:58:SER:O	7:G:62:ASP:CA	2.50	0.59
11:K:62:VAL:HG22	11:K:87:ILE:HG23	1.84	0.59
1:A:597:VAL:CG1	4:D:477:GLU:CG	2.70	0.59
1:A:1069:TYR:HD1	1:A:1078:THR:CG2	2.15	0.59
1:A:1147:ALA:CB	4:D:173:CYS:HA	2.29	0.59
1:A:1525:PHE:CG	1:A:1541:PHE:CD2	2.80	0.59
1:A:4287:THR:HG22	1:A:4549:ILE:HD12	1.83	0.59
2:B:585:ILE:CD1	2:B:647:GLU:OE1	2.50	0.59
2:B:736:LEU:O	2:B:736:LEU:HD23	2.01	0.59
2:B:966:LYS:N	3:C:343:ASN:O	2.34	0.59
2:B:1238:LYS:HE2	2:B:1308:LEU:CA	2.06	0.59
2:B:2237:VAL:CG2	2:B:2639:LEU:HD22	2.32	0.59
2:B:2462:ASN:ND2	2:B:2479:CYS:SG	2.76	0.59
3:C:2733:TYR:O	3:C:2733:TYR:CD1	2.55	0.59
5:E:60:SER:CB	10:J:87:GLN:HA	2.31	0.59
9:I:85:TYR:CE2	9:I:106:LEU:HD22	2.37	0.59
14:N:116:ALA:CB	15:O:131:PHE:CZ	2.85	0.59
1:A:1048:TYR:HE1	1:A:1100:LEU:CA	2.15	0.59
1:A:1139:LEU:HB3	4:D:169:ASN:HD22	1.66	0.59
1:A:1460:ASN:HA	1:A:1552:MET:HE1	1.84	0.59
2:B:805:LYS:HD3	2:B:809:MET:HE2	1.84	0.59
3:C:352:LEU:HD22	3:C:352:LEU:C	2.28	0.59
3:C:2578:PHE:O	3:C:2582:ILE:HG13	2.02	0.59
3:C:2690:LEU:O	3:C:2693:GLN:CB	2.50	0.59
4:D:107:VAL:HG11	15:O:96:ARG:HH21	1.67	0.59
4:D:386:TYR:HE1	5:E:142:VAL:CG1	2.13	0.59
4:D:585:VAL:CG1	4:D:588:PRO:CG	2.80	0.59
5:E:120:ILE:HA	6:F:101:GLN:OE1	2.01	0.59
5:E:123:ASN:HB2	6:F:101:GLN:HE22	1.67	0.59
5:E:143:GLU:OE2	5:E:491:CYS:SG	2.61	0.59
12:L:49:LEU:HD22	12:L:49:LEU:N	2.18	0.59
16:P:10:THR:CA	16:P:65:ASP:CB	2.74	0.59
1:A:854:GLU:CD	5:E:202:LEU:O	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3317:PHE:CD1	1:A:3333:LEU:HD22	2.25	0.59
2:B:658:GLN:NE2	2:B:672:ASN:CG	2.59	0.59
2:B:962:PHE:HB3	2:B:965:ILE:HD13	1.85	0.59
2:B:1467:PHE:CE1	2:B:1569:VAL:HG11	2.37	0.59
2:B:3150:VAL:HG22	2:B:3707:LEU:CD2	2.33	0.59
2:B:3231:VAL:HG22	2:B:3343:ILE:N	2.18	0.59
4:D:199:ILE:HG12	9:I:104:ALA:HB2	1.84	0.59
4:D:252:VAL:HA	7:G:149:GLN:HE22	1.66	0.59
5:E:57:SER:O	10:J:90:HIS:ND1	2.35	0.59
1:A:608:ILE:HD12	4:D:477:GLU:OE1	2.02	0.59
2:B:433:ILE:CA	2:B:463:PHE:HZ	2.14	0.59
2:B:1172:LYS:HB2	2:B:1176:VAL:HG23	1.83	0.59
2:B:1467:PHE:CD2	2:B:1560:MET:HE1	2.37	0.59
2:B:1531:ILE:CD1	2:B:1595:LEU:HD13	2.31	0.59
2:B:2800:ILE:HD12	2:B:2814:ILE:HD11	1.85	0.59
2:B:3264:ASN:CA	2:B:3306:ILE:CD1	2.80	0.59
3:C:160:ILE:O	3:C:160:ILE:HG13	2.02	0.59
3:C:1081:ILE:HD11	3:C:1117:GLN:HB3	1.85	0.59
1:A:546:LEU:O	4:D:655:LEU:HD22	1.95	0.59
1:A:600:MET:SD	1:A:701:CYS:SG	3.00	0.59
1:A:700:LYS:HE2	4:D:455:GLY:HA2	1.77	0.59
2:B:17:ARG:N	2:B:17:ARG:CB	2.61	0.59
2:B:1140:LEU:HD13	2:B:1285:GLU:CB	2.33	0.59
2:B:3210:SER:HB3	2:B:3363:ALA:HB1	1.85	0.59
4:D:528:TRP:CD1	4:D:535:GLN:CB	2.85	0.59
4:D:584:ILE:HG23	4:D:614:VAL:HG21	1.83	0.59
5:E:14:PHE:CE2	15:O:22:LEU:O	2.56	0.59
5:E:58:GLU:HB2	10:J:88:ALA:O	2.03	0.59
5:E:117:GLU:HG3	6:F:17:LEU:CG	2.21	0.59
1:A:156:VAL:CB	2:B:168:ILE:HA	2.32	0.59
1:A:203:SER:O	1:A:207:GLN:CB	2.51	0.59
1:A:612:HIS:HB2	4:D:500:LEU:O	2.03	0.59
1:A:857:ARG:HH12	5:E:200:TRP:CD1	2.11	0.59
1:A:3269:LEU:CA	17:Q:34:GLN:O	2.51	0.59
2:B:867:VAL:HG12	2:B:944:ILE:HD13	1.85	0.59
2:B:1176:VAL:O	2:B:1179:THR:OG1	2.17	0.59
2:B:3210:SER:HB3	2:B:3363:ALA:CB	2.33	0.59
3:C:2177:ILE:HG22	3:C:2233:PRO:HA	1.84	0.59
3:C:2717:ALA:C	3:C:2720:PRO:HD2	2.27	0.59
4:D:313:ALA:HB2	4:D:331:LEU:HG	1.84	0.59
5:E:58:GLU:O	5:E:58:GLU:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:81:THR:CB	7:G:121:ASN:OD1	2.50	0.59
8:H:29:LYS:HB2	8:H:29:LYS:HZ2	1.66	0.59
11:K:77:PHE:CZ	11:K:88:LEU:CD1	2.74	0.59
1:A:598:ARG:NH1	4:D:504:TYR:CA	2.57	0.59
1:A:793:GLN:N	5:E:433:TRP:CH2	2.63	0.59
1:A:1013:VAL:CG1	1:A:1017:LEU:HD11	2.30	0.59
1:A:1013:VAL:CG1	1:A:1076:LEU:HD11	2.33	0.59
1:A:1100:LEU:CD2	1:A:1163:LEU:HB2	2.33	0.59
1:A:3273:TYR:CD1	1:A:3273:TYR:O	2.56	0.59
1:A:3421:SER:HB3	1:A:3716:LEU:CG	2.30	0.59
2:B:883:ASN:HA	2:B:886:ILE:HG22	1.73	0.59
2:B:1329:PRO:O	2:B:1412:PHE:CB	2.51	0.59
2:B:2666:ARG:HD2	20:B:5403:ATP:PG	2.35	0.59
3:C:143:PRO:CG	3:C:187:TRP:CE2	2.85	0.59
3:C:1559:LEU:HD23	3:C:1607:LEU:HD21	1.84	0.59
3:C:2639:ASP:O	3:C:2642:ALA:CB	2.44	0.59
1:A:755:HIS:ND1	1:A:869:TYR:CE2	2.44	0.58
1:A:1013:VAL:CG2	1:A:1076:LEU:HD21	2.32	0.58
1:A:2162:GLY:HA2	20:A:4702:ATP:O1A	2.03	0.58
1:A:3308:PRO:N	17:Q:56:SER:O	2.35	0.58
2:B:450:LYS:HD3	5:E:507:GLU:OE2	2.03	0.58
2:B:516:THR:HG21	5:E:406:LYS:HA	1.83	0.58
2:B:578:LEU:H	2:B:578:LEU:CD1	2.16	0.58
2:B:903:ARG:CB	2:B:914:ASP:CG	2.47	0.58
2:B:1511:VAL:C	2:B:1570:VAL:HG22	2.27	0.58
2:B:2334:TYR:HA	20:B:5403:ATP:C2	2.38	0.58
2:B:3445:LYS:CB	2:B:3487:PRO:CB	2.76	0.58
3:C:3412:HIS:HA	3:C:3415:ILE:HD12	1.84	0.58
4:D:61:LEU:O	4:D:61:LEU:HD13	2.03	0.58
6:F:91:GLN:CD	6:F:96:THR:CG2	2.74	0.58
11:K:18:MET:HA	11:K:18:MET:CE	2.33	0.58
1:A:594:PRO:HG2	1:A:606:LYS:HG2	1.85	0.58
1:A:729:GLU:HA	4:D:391:ARG:HH12	1.68	0.58
1:A:1100:LEU:HD21	1:A:1159:MET:CE	2.32	0.58
1:A:1121:LYS:CB	1:A:1138:THR:CG2	2.66	0.58
1:A:3043:ILE:HD12	1:A:3060:MET:HG3	1.85	0.58
2:B:439:LEU:CD1	2:B:503:LEU:HD21	2.33	0.58
2:B:718:ILE:CD1	2:B:773:VAL:HG11	2.33	0.58
2:B:953:GLY:HA2	3:C:282:ARG:CZ	2.32	0.58
2:B:2545:THR:N	19:B:5405:ADP:O2A	2.36	0.58
2:B:2569:SER:HA	2:B:2610:PRO:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2609:MET:N	2:B:2610:PRO:HD2	2.17	0.58
2:B:3109:LYS:HG2	2:B:3113:GLU:OE2	2.03	0.58
3:C:2213:ARG:HH21	19:C:4305:ADP:PB	2.26	0.58
3:C:2708:GLN:HE21	3:C:2809:ALA:CA	2.15	0.58
4:D:75:LEU:CD1	15:O:102:LEU:HD12	2.29	0.58
4:D:89:TYR:CE2	11:K:56:PRO:CG	2.86	0.58
4:D:170:THR:CG2	13:M:66:ILE:HG13	2.16	0.58
5:E:70:ASP:HA	8:H:69:VAL:O	2.03	0.58
1:A:801:ILE:CD1	1:A:862:LEU:CD2	2.79	0.58
1:A:1163:LEU:HD21	1:A:1167:LEU:HD12	1.85	0.58
1:A:1513:LYS:CE	1:A:1578:ASN:OD1	2.42	0.58
1:A:3210:GLU:O	1:A:3214:SER:CB	2.51	0.58
2:B:584:PRO:HD3	5:E:186:PHE:HD2	1.66	0.58
2:B:927:ARG:HH12	2:B:976:LEU:HB3	1.67	0.58
2:B:1772:ILE:HG23	2:B:2044:GLY:HA2	1.85	0.58
2:B:3269:LEU:HD22	2:B:3269:LEU:O	2.01	0.58
3:C:2708:GLN:CD	3:C:2813:ILE:HG13	2.27	0.58
3:C:2800:PRO:HG3	3:C:2818:VAL:CG2	2.34	0.58
4:D:330:CYS:HB3	4:D:340:PRO:HB3	1.85	0.58
12:L:70:GLY:O	12:L:109:LYS:HE2	2.03	0.58
16:P:27:ASN:CB	16:P:95:GLU:HA	2.32	0.58
1:A:473:LEU:O	1:A:478:LEU:CB	2.51	0.58
1:A:1140:GLU:OE2	4:D:165:LYS:CE	2.51	0.58
1:A:3307:GLU:CB	17:Q:56:SER:N	2.26	0.58
2:B:1069:THR:CB	2:B:1070:PRO:HD2	2.33	0.58
2:B:1242:GLN:CB	2:B:1252:MET:O	2.51	0.58
2:B:2267:ILE:HG22	2:B:2271:TRP:HZ3	1.68	0.58
3:C:2637:GLU:CA	3:C:2640:ALA:HB3	2.33	0.58
3:C:2742:LYS:HE3	3:C:2785:VAL:CG2	2.31	0.58
4:D:94:ARG:CZ	13:M:78:ASN:HD22	2.16	0.58
5:E:104:SER:HB3	5:E:106:PRO:HD2	1.86	0.58
14:N:115:MET:CE	15:O:129:CYS:SG	2.76	0.58
15:O:25:ILE:HG22	15:O:27:ASN:HB2	1.85	0.58
16:P:27:ASN:HA	16:P:95:GLU:HA	1.83	0.58
1:A:53:ILE:C	1:A:54:PHE:CA	2.77	0.58
2:B:669:ILE:HG21	2:B:719:VAL:HG21	1.85	0.58
2:B:1119:LYS:CB	2:B:1138:LYS:HD3	2.33	0.58
3:C:2708:GLN:HG2	3:C:2809:ALA:HB1	1.85	0.58
3:C:2730:LEU:CD1	3:C:2730:LEU:H	2.16	0.58
7:G:118:ASP:OD1	9:I:12:ILE:HD11	2.03	0.58
15:O:45:ARG:HB2	15:O:63:LEU:CD1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:ARG:O	1:A:121:GLY:CA	2.51	0.58
1:A:596:LEU:N	1:A:596:LEU:CD1	2.66	0.58
1:A:729:GLU:HA	4:D:391:ARG:NH1	2.19	0.58
1:A:1597:LYS:HZ1	1:A:1962:ILE:CD1	2.16	0.58
1:A:3212:VAL:HG21	1:A:3339:ILE:CG1	2.33	0.58
1:A:3251:ILE:HG22	17:Q:39:GLU:O	1.78	0.58
2:B:642:LEU:HD11	2:B:646:LYS:HE3	1.85	0.58
2:B:1608:ARG:HB3	2:B:1637:CYS:HB3	1.85	0.58
3:C:346:LEU:H	3:C:346:LEU:CD1	2.15	0.58
3:C:2708:GLN:OE1	3:C:2813:ILE:CD1	2.47	0.58
4:D:207:ALA:CA	9:I:24:ILE:CD1	2.75	0.58
5:E:71:ARG:NH1	8:H:71:PHE:CE2	2.67	0.58
10:J:48:LEU:HD13	10:J:100:ILE:HD12	1.85	0.58
10:J:61:ALA:HA	10:J:80:PHE:CE2	2.34	0.58
1:A:594:PRO:CG	1:A:606:LYS:HG2	2.33	0.58
1:A:598:ARG:CA	4:D:460:LEU:CD1	2.81	0.58
1:A:1013:VAL:HA	1:A:1076:LEU:HD11	1.84	0.58
1:A:1234:GLY:C	1:A:1252:PHE:C	2.61	0.58
1:A:1459:LEU:O	1:A:1552:MET:CE	2.52	0.58
1:A:3117:PHE:CG	1:A:3429:TRP:HZ3	2.21	0.58
1:A:3301:GLU:H	17:Q:99:GLN:CB	2.16	0.58
1:A:3446:ASN:CG	1:A:3488:LEU:CD2	2.77	0.58
1:A:4126:TRP:CZ2	1:A:4130:ILE:HD11	2.39	0.58
2:B:657:LYS:O	2:B:657:LYS:HG3	2.02	0.58
2:B:1002:GLN:HG2	2:B:1094:TRP:NE1	2.18	0.58
2:B:1003:ILE:HG22	2:B:1003:ILE:O	2.03	0.58
2:B:1464:THR:HG22	2:B:1557:LYS:HB2	1.86	0.58
2:B:2396:MET:HE2	2:B:2396:MET:HA	1.86	0.58
3:C:1541:LEU:HD13	3:C:1584:LEU:HD22	1.84	0.58
3:C:2746:PRO:CD	3:C:2747:LYS:H	2.12	0.58
4:D:288:ARG:HE	4:D:610:GLY:HA3	1.69	0.58
4:D:532:TYR:CE1	4:D:652:MET:HE2	2.38	0.58
5:E:19:ASN:O	5:E:19:ASN:OD1	2.22	0.58
5:E:394:TRP:HE1	5:E:401:PRO:HD3	1.66	0.58
1:A:598:ARG:C	4:D:460:LEU:HD22	2.26	0.58
1:A:690:LEU:N	1:A:690:LEU:CD1	2.67	0.58
1:A:755:HIS:HE1	1:A:869:TYR:HB3	1.69	0.58
1:A:854:GLU:OE2	5:E:202:LEU:O	2.21	0.58
2:B:909:SER:O	2:B:995:TYR:HE1	1.86	0.58
2:B:984:ASN:CA	2:B:987:ARG:HG2	2.33	0.58
2:B:1610:TYR:CD2	2:B:1942:GLY:HA3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3239:VAL:HG11	2:B:3291:ILE:HD11	1.86	0.58
3:C:2730:LEU:HD12	3:C:2730:LEU:N	2.19	0.58
3:C:2740:ILE:CD1	3:C:2744:LYS:HD3	2.29	0.58
5:E:384:LEU:HD12	5:E:384:LEU:C	2.27	0.58
8:H:10:VAL:HB	8:H:80:TYR:CZ	2.39	0.58
9:I:55:ASN:HB2	9:I:58:ALA:HB3	1.86	0.58
10:J:35:ASP:CB	15:O:32:SER:HB3	2.33	0.58
10:J:77:HIS:HA	11:K:70:VAL:HG23	1.84	0.58
12:L:55:LEU:HD23	12:L:55:LEU:O	2.04	0.58
18:R:27:GLY:O	18:R:28:LEU:CB	2.52	0.58
1:A:744:ILE:CD1	1:A:752:LEU:HD23	2.32	0.58
1:A:1100:LEU:CG	1:A:1159:MET:HE1	2.34	0.58
1:A:1263:TYR:HE2	1:A:1280:TYR:C	2.12	0.58
2:B:1485:MET:CB	2:B:1505:ARG:HE	2.05	0.58
2:B:3262:LEU:C	2:B:3297:PHE:CZ	2.81	0.58
3:C:9:GLN:HB2	3:C:350:TRP:CE2	2.38	0.58
3:C:12:GLN:OE1	3:C:12:GLN:N	2.33	0.58
3:C:2807:SER:HG	3:C:2810:ALA:HB2	1.64	0.58
4:D:90:ASP:OD2	13:M:32:LYS:CE	2.52	0.58
4:D:194:THR:HB	9:I:88:THR:HG22	1.85	0.58
6:F:81:THR:C	7:G:124:VAL:CG2	2.77	0.58
8:H:50:ARG:NH2	9:I:88:THR:HG21	2.19	0.58
12:L:28:GLN:HE21	12:L:28:GLN:CA	2.16	0.58
13:M:44:GLU:OE1	13:M:44:GLU:HA	2.03	0.58
1:A:1012:LYS:HE2	1:A:1071:ILE:CG2	2.30	0.58
1:A:1135:VAL:HG12	1:A:1136:MET:HE3	1.86	0.58
1:A:3691:LEU:HB3	1:A:3719:THR:HG22	1.86	0.58
2:B:963:PHE:CD2	3:C:51:ILE:HD13	2.39	0.58
2:B:1584:TRP:HA	2:B:1584:TRP:CE3	2.39	0.58
2:B:2333:PRO:O	20:B:5403:ATP:C2	2.55	0.58
2:B:3422:LEU:HD23	2:B:3707:LEU:HD23	1.84	0.58
4:D:212:ILE:HG12	9:I:19:MET:HE1	1.86	0.58
4:D:254:GLN:OE1	5:E:128:LEU:HD11	2.04	0.58
5:E:375:ARG:HA	5:E:383:PHE:HA	1.86	0.58
15:O:103:TRP:HB2	15:O:108:ASP:OD1	2.04	0.58
1:A:611:ARG:HH22	1:A:705:GLN:HB2	1.69	0.57
1:A:891:PHE:CD1	1:A:972:TRP:CD2	2.90	0.57
1:A:2430:ASP:O	1:A:2443:CYS:SG	2.52	0.57
1:A:3126:GLU:HA	1:A:3126:GLU:OE1	2.03	0.57
1:A:3210:GLU:O	1:A:3214:SER:HB3	2.02	0.57
1:A:3248:LEU:CG	17:Q:81:ARG:H	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3300:GLU:CB	17:Q:99:GLN:CB	2.76	0.57
2:B:59:THR:CA	2:B:82:ASP:O	2.51	0.57
2:B:682:LYS:HZ3	5:E:186:PHE:HD1	1.24	0.57
2:B:1143:VAL:O	2:B:1147:ILE:HG13	2.04	0.57
2:B:1538:ILE:HD11	2:B:1621:LEU:HB3	1.86	0.57
2:B:2512:VAL:H	19:B:5405:ADP:HN62	1.52	0.57
3:C:2556:VAL:HG21	3:C:2937:TYR:CD2	2.39	0.57
4:D:164:ASN:H	4:D:167:ASN:HB3	1.69	0.57
4:D:175:THR:HG23	13:M:61:PHE:O	2.03	0.57
1:A:1012:LYS:HB2	1:A:1071:ILE:HD12	1.79	0.57
1:A:1031:ILE:HG22	1:A:1034:SER:HG	1.68	0.57
1:A:3215:ILE:HG21	1:A:3219:ASP:CG	2.19	0.57
1:A:3215:ILE:HD13	1:A:3219:ASP:OD2	2.04	0.57
1:A:3222:GLU:OE1	1:A:3328:ALA:HB2	2.04	0.57
1:A:3249:ILE:CD1	17:Q:106:PHE:CE2	2.86	0.57
2:B:725:ILE:HG21	2:B:776:LEU:CD2	2.33	0.57
2:B:1387:MET:HA	2:B:1434:ALA:HB1	1.85	0.57
2:B:1447:ILE:CG1	2:B:1480:HIS:ND1	2.67	0.57
2:B:1604:LYS:HA	2:B:1945:GLN:HE22	1.69	0.57
3:C:217:PHE:CE2	3:C:268:ILE:HD12	2.39	0.57
3:C:2013:GLY:C	19:C:4305:ADP:O1A	2.46	0.57
3:C:3072:ILE:HD12	3:C:3102:LEU:HD11	1.86	0.57
4:D:294:GLN:HB3	4:D:297:LYS:HE3	1.86	0.57
4:D:573:VAL:HG21	4:D:579:LEU:HD21	1.86	0.57
8:H:69:VAL:HG11	8:H:89:PHE:CZ	2.39	0.57
1:A:944:LEU:HD11	1:A:1013:VAL:HG12	1.85	0.57
1:A:3046:PHE:HE2	1:A:3104:ILE:CD1	2.16	0.57
1:A:3124:ILE:HD12	1:A:3429:TRP:HD1	1.61	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CD2	2.39	0.57
1:A:3247:ARG:HD3	17:Q:128:ARG:CA	2.26	0.57
1:A:3305:LEU:CD1	17:Q:102:LEU:CA	2.69	0.57
2:B:960:ARG:HD3	3:C:287:PHE:CZ	2.37	0.57
2:B:1079:ASN:HD21	2:B:1081:GLN:HB2	1.68	0.57
3:C:261:ILE:N	3:C:262:PRO:HD2	2.20	0.57
5:E:403:ILE:HD11	5:E:512:GLU:HG3	1.85	0.57
6:F:66:ASP:HB3	7:G:102:SER:CB	2.34	0.57
12:L:99:LEU:N	12:L:100:PRO:HD2	2.19	0.57
13:M:77:ILE:HG22	13:M:80:LEU:HB3	1.86	0.57
15:O:25:ILE:CG2	15:O:27:ASN:HB2	2.34	0.57
1:A:473:LEU:CB	1:A:481:MET:CB	2.82	0.57
1:A:594:PRO:CB	1:A:609:TRP:CE3	2.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1806:PHE:CD1	1:A:4194:VAL:HG22	2.40	0.57
1:A:2500:THR:OG1	21:A:4705:MG:MG	1.38	0.57
2:B:429:LEU:HD13	2:B:492:PHE:CD2	2.38	0.57
2:B:433:ILE:CG2	2:B:463:PHE:CZ	2.45	0.57
2:B:3241:GLU:O	2:B:3245:LEU:HG	2.05	0.57
3:C:248:ILE:HG22	3:C:273:VAL:HB	1.86	0.57
3:C:288:VAL:O	3:C:320:PRO:HB3	2.04	0.57
3:C:2585:PHE:HE1	3:C:2929:LEU:CB	2.17	0.57
4:D:208:TYR:O	4:D:212:ILE:HG13	2.04	0.57
4:D:265:ARG:CG	5:E:125:GLN:CG	2.71	0.57
4:D:576:LEU:HD13	4:D:576:LEU:O	2.05	0.57
5:E:164:VAL:HG23	5:E:181:TYR:HE1	1.66	0.57
5:E:253:MET:HB2	5:E:296:PHE:HE2	1.67	0.57
1:A:1274:GLY:O	4:D:161:THR:OG1	2.21	0.57
1:A:3249:ILE:CD1	1:A:3273:TYR:CA	2.71	0.57
1:A:3306:LEU:HD11	1:A:3310:LEU:HG	1.81	0.57
2:B:1606:PHE:HE1	2:B:1687:LEU:HA	1.69	0.57
2:B:3453:LEU:CD2	2:B:3492:ILE:HD12	2.34	0.57
3:C:1907:ILE:HD11	3:C:1930:TRP:CZ2	2.40	0.57
3:C:2365:GLY:O	19:C:4306:ADP:C5'	2.53	0.57
3:C:2593:ARG:CD	3:C:2921:LEU:HD11	2.34	0.57
3:C:2899:LEU:HG	3:C:3193:LEU:HD13	1.85	0.57
4:D:110:SER:CA	15:O:96:ARG:HG3	2.35	0.57
4:D:111:MET:HB3	15:O:95:LEU:N	2.05	0.57
4:D:405:ASN:HD22	4:D:406:PRO:CD	2.00	0.57
5:E:408:HIS:HD2	5:E:412:LEU:HD11	1.67	0.57
14:N:89:GLN:HG3	14:N:94:ASP:HB2	1.83	0.57
15:O:52:ASP:H	15:O:53:PRO:HD3	1.69	0.57
1:A:669:ALA:HB1	1:A:689:ASP:CB	2.34	0.57
1:A:850:SER:C	5:E:204:ASN:HB3	2.30	0.57
1:A:2839:LEU:HA	19:A:4703:ADP:H2	1.69	0.57
1:A:3249:ILE:HA	17:Q:106:PHE:CE2	2.40	0.57
1:A:3255:GLU:OE1	1:A:3270:LYS:CA	2.53	0.57
2:B:422:ARG:HB2	2:B:422:ARG:CZ	2.35	0.57
2:B:439:LEU:HD11	2:B:503:LEU:HD21	1.87	0.57
2:B:1454:GLN:OE1	2:B:1477:LEU:HD21	2.05	0.57
2:B:3147:GLN:HA	2:B:3426:LEU:CD1	2.34	0.57
2:B:3243:LYS:HD2	2:B:3285:ASN:O	2.05	0.57
2:B:3253:ILE:HG21	2:B:3273:ASP:HB3	1.84	0.57
3:C:180:LEU:HD12	3:C:180:LEU:C	2.28	0.57
3:C:2119:ILE:HG21	3:C:2122:THR:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:28:ALA:CB	8:H:86:ILE:HD12	2.33	0.57
8:H:66:GLY:HA2	9:I:56:ILE:CG2	2.13	0.57
10:J:43:GLU:HG2	10:J:67:TYR:CD2	2.40	0.57
1:A:402:PRO:O	1:A:468:GLN:HA	2.04	0.57
1:A:678:HIS:HB2	1:A:681:ASN:HB2	1.86	0.57
1:A:807:GLU:O	1:A:811:LYS:HG3	2.04	0.57
1:A:1088:TRP:CZ2	1:A:1092:TRP:CZ2	2.92	0.57
1:A:1534:MET:HB3	1:A:1537:GLN:HG3	1.86	0.57
1:A:3222:GLU:HB2	1:A:3328:ALA:CB	2.34	0.57
2:B:448:LYS:HE3	2:B:452:LEU:HD11	1.86	0.57
2:B:736:LEU:HD12	2:B:859:TYR:HB3	1.80	0.57
2:B:762:ILE:O	2:B:766:ILE:CB	2.52	0.57
2:B:938:PHE:HE2	3:C:343:ASN:OD1	1.88	0.57
2:B:938:PHE:CZ	3:C:343:ASN:ND2	2.72	0.57
2:B:1458:PHE:CB	2:B:1465:LYS:HB3	2.30	0.57
2:B:1956:ASN:HD21	2:B:2011:ARG:HG3	1.69	0.57
3:C:53:PRO:HD2	3:C:81:PRO:CB	2.34	0.57
3:C:214:LEU:O	3:C:214:LEU:HD22	2.05	0.57
3:C:265:LYS:HE2	3:C:356:THR:HG22	0.69	0.57
3:C:540:LYS:CB	3:C:705:LYS:N	2.67	0.57
3:C:1864:ILE:HD11	3:C:1910:ILE:HG23	1.85	0.57
3:C:2738:ILE:HG22	3:C:2746:PRO:CG	2.33	0.57
4:D:68:GLU:CD	5:E:12:LYS:HA	2.29	0.57
4:D:194:THR:HA	9:I:88:THR:HA	1.85	0.57
4:D:401:GLN:HB3	4:D:417:ILE:HG22	1.85	0.57
14:N:115:MET:HE2	15:O:129:CYS:HB2	1.85	0.57
16:P:55:ILE:O	16:P:60:PHE:N	2.38	0.57
1:A:598:ARG:N	4:D:460:LEU:HD13	2.05	0.57
1:A:670:LEU:HA	1:A:692:ILE:HD12	1.86	0.57
1:A:690:LEU:CD1	1:A:690:LEU:H	2.18	0.57
1:A:847:PHE:CZ	1:A:851:LYS:CE	2.88	0.57
1:A:1273:PHE:O	4:D:161:THR:HG23	2.04	0.57
1:A:1424:ASP:CA	1:A:1427:LEU:HB2	2.31	0.57
1:A:1443:MET:HE2	1:A:1467:ILE:HG12	1.86	0.57
1:A:3251:ILE:HD11	17:Q:64:LYS:CA	2.15	0.57
1:A:4422:ASP:HB2	1:A:4423:PRO:HD2	1.86	0.57
2:B:913:PHE:CE2	2:B:1078:ILE:HD11	2.39	0.57
2:B:997:TRP:CE3	2:B:997:TRP:HA	2.40	0.57
2:B:2966:LEU:C	2:B:2966:LEU:HD12	2.30	0.57
2:B:3433:TRP:HH2	2:B:3695:LEU:HD21	1.66	0.57
3:C:359:GLY:C	3:C:440:TYR:CB	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:360:PRO:CG	3:C:361:PRO:CD	2.83	0.57
3:C:533:GLU:CB	3:C:545:GLU:CB	2.82	0.57
3:C:2738:ILE:CB	3:C:2746:PRO:HG3	2.26	0.57
4:D:79:ASN:HD22	4:D:80:PRO:HD2	1.70	0.57
4:D:207:ALA:C	9:I:24:ILE:HD11	2.22	0.57
4:D:265:ARG:CB	5:E:125:GLN:CG	2.82	0.57
4:D:285:PRO:HB3	4:D:584:ILE:HG22	1.85	0.57
5:E:26:ARG:O	14:N:85:ILE:CG2	2.53	0.57
5:E:289:MET:HE2	5:E:303:LYS:HE2	1.87	0.57
6:F:50:ALA:CB	8:H:83:GLN:CB	2.82	0.57
1:A:878:VAL:HG22	1:A:879:LEU:N	2.20	0.57
1:A:906:LEU:HB3	1:A:998:VAL:HG13	1.86	0.57
1:A:1423:ALA:O	1:A:1427:LEU:N	2.33	0.57
1:A:3121:LEU:HD23	1:A:3429:TRP:HB2	1.64	0.57
2:B:736:LEU:CA	2:B:855:SER:HB2	2.30	0.57
2:B:1242:GLN:O	2:B:1251:SER:C	2.48	0.57
2:B:3147:GLN:HA	2:B:3426:LEU:HD13	1.87	0.57
3:C:1296:ILE:HD11	3:C:1542:MET:SD	2.44	0.57
4:D:88:VAL:HG21	13:M:33:GLN:NE2	2.20	0.57
4:D:261:TYR:CE1	5:E:126:ILE:HD11	2.37	0.57
4:D:404:TRP:HZ3	4:D:412:TYR:HB3	1.69	0.57
1:A:867:MET:SD	1:A:878:VAL:CG1	2.86	0.57
1:A:1013:VAL:O	1:A:1017:LEU:HG	2.04	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CE2	2.40	0.57
1:A:4240:VAL:HG11	1:A:4270:PRO:HG2	1.86	0.57
2:B:467:VAL:O	2:B:471:THR:HB	1.99	0.57
2:B:523:LEU:HD23	2:B:523:LEU:O	2.05	0.57
2:B:1141:MET:HE3	2:B:1145:LYS:HE3	1.87	0.57
3:C:757:GLU:HA	3:C:827:ILE:HD11	1.87	0.57
3:C:2800:PRO:CG	3:C:2818:VAL:CG2	2.82	0.57
4:D:189:PRO:HD3	11:K:65:HIS:HB2	1.87	0.57
4:D:585:VAL:HG11	4:D:588:PRO:HG3	1.85	0.57
1:A:597:VAL:HG21	4:D:502:ALA:HB2	1.85	0.56
1:A:612:HIS:C	4:D:500:LEU:CD2	2.57	0.56
1:A:803:GLU:CD	5:E:148:LYS:HE2	2.24	0.56
1:A:1195:GLU:CD	13:M:12:MET:H	2.13	0.56
1:A:2143:LEU:HD13	1:A:2155:LEU:HD13	1.87	0.56
1:A:3442:LYS:CB	1:A:3485:THR:CG2	2.74	0.56
2:B:655:LYS:HB2	2:B:677:LEU:CD2	2.35	0.56
2:B:658:GLN:HG2	2:B:672:ASN:O	2.04	0.56
2:B:747:GLU:O	2:B:750:PRO:HD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1119:LYS:CB	2:B:1138:LYS:HZ3	2.16	0.56
2:B:2544:LYS:CA	19:B:5405:ADP:O2A	2.53	0.56
2:B:3257:ARG:CZ	2:B:3273:ASP:OD1	2.53	0.56
2:B:3297:PHE:CZ	2:B:3302:ILE:HD13	2.40	0.56
5:E:24:GLU:OE2	14:N:91:THR:CB	2.53	0.56
5:E:286:GLY:HA2	5:E:318:GLY:HA2	1.86	0.56
1:A:160:GLU:CB	2:B:167:GLN:CA	2.82	0.56
1:A:547:LYS:O	4:D:654:ASN:OD1	2.22	0.56
1:A:847:PHE:HZ	1:A:851:LYS:HZ2	1.52	0.56
1:A:3241:LEU:CD1	1:A:3273:TYR:CD2	2.88	0.56
2:B:585:ILE:HD11	2:B:647:GLU:OE1	2.05	0.56
2:B:736:LEU:CD1	2:B:859:TYR:HB3	2.34	0.56
2:B:953:GLY:CA	3:C:282:ARG:NH1	2.68	0.56
2:B:1100:ASP:HA	2:B:1103:VAL:CG2	2.35	0.56
2:B:3063:PHE:CZ	2:B:3112:LEU:HD11	2.40	0.56
3:C:2820:ILE:HG23	3:C:2824:TYR:CD2	2.40	0.56
4:D:111:MET:SD	15:O:90:ILE:HG22	2.44	0.56
4:D:247:ILE:HD13	5:E:129:LEU:CD2	2.35	0.56
5:E:214:SER:HB3	5:E:243:TRP:HZ2	1.71	0.56
1:A:403:ALA:HA	1:A:468:GLN:HA	1.87	0.56
1:A:588:GLN:OE1	1:A:588:GLN:HA	2.04	0.56
1:A:732:TYR:HD2	4:D:391:ARG:NE	2.01	0.56
1:A:850:SER:HB2	5:E:204:ASN:CG	2.30	0.56
1:A:1114:GLN:C	1:A:1118:LEU:HD23	2.29	0.56
1:A:1151:MET:HE1	4:D:176:ILE:CB	2.31	0.56
1:A:3442:LYS:CG	1:A:3485:THR:HG22	2.35	0.56
2:B:444:LEU:HA	5:E:515:LYS:CE	2.35	0.56
2:B:518:TYR:CB	5:E:404:ARG:NH1	2.69	0.56
2:B:575:ASN:CB	5:E:481:GLN:NE2	2.67	0.56
2:B:1456:PHE:CE1	2:B:1563:VAL:HG11	2.34	0.56
3:C:52:ALA:HB1	3:C:53:PRO:CD	2.35	0.56
3:C:2365:GLY:CA	19:C:4306:ADP:H5'2	2.35	0.56
3:C:2698:LEU:CD2	3:C:2768:LEU:HB3	2.36	0.56
3:C:2730:LEU:H	3:C:2730:LEU:HD12	1.69	0.56
3:C:2772:LYS:HD3	3:C:2772:LYS:O	2.05	0.56
4:D:79:ASN:H	4:D:104:GLN:HG2	1.69	0.56
4:D:199:ILE:HG21	9:I:104:ALA:HB1	1.86	0.56
4:D:395:HIS:CE1	4:D:399:VAL:CG1	2.71	0.56
4:D:517:ILE:CD1	4:D:527:ILE:CB	2.83	0.56
4:D:529:ASP:HB2	4:D:536:ILE:HD11	1.86	0.56
4:D:532:TYR:CE1	4:D:652:MET:CE	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:35:CYS:HB2	8:H:41:ILE:HG12	1.86	0.56
10:J:77:HIS:CB	11:K:70:VAL:HG23	2.34	0.56
10:J:89:VAL:HG23	11:K:47:LYS:HE3	1.87	0.56
11:K:55:GLY:CA	13:M:79:GLU:HG3	2.33	0.56
12:L:84:CYS:CB	13:M:56:ILE:HA	2.34	0.56
14:N:72:ILE:CG1	15:O:97:ILE:HG23	2.29	0.56
1:A:604:ALA:CB	1:A:698:GLU:CD	2.79	0.56
1:A:607:ILE:HG12	1:A:654:TRP:CD1	2.41	0.56
1:A:1433:LEU:HD11	1:A:1490:PHE:HE1	1.68	0.56
1:A:2697:ARG:HG2	19:A:4701:ADP:H4'	1.86	0.56
1:A:3421:SER:CB	1:A:3716:LEU:CD2	2.83	0.56
2:B:433:ILE:HA	2:B:463:PHE:CE1	2.40	0.56
2:B:606:LEU:HA	2:B:609:LEU:HD23	1.86	0.56
2:B:949:THR:HB	3:C:172:LEU:HB3	1.86	0.56
2:B:1076:LEU:O	2:B:1076:LEU:HD23	2.05	0.56
2:B:1172:LYS:HD2	2:B:1176:VAL:HG23	1.87	0.56
2:B:2531:ARG:HA	2:B:2649:LEU:HD21	1.88	0.56
2:B:2560:VAL:HG13	2:B:2601:ILE:HD13	1.86	0.56
2:B:3082:MET:SD	2:B:3115:ILE:CD1	2.93	0.56
2:B:3269:LEU:H	2:B:3269:LEU:CD1	2.18	0.56
3:C:359:GLY:N	3:C:440:TYR:CB	2.68	0.56
3:C:2082:LEU:HG	3:C:2137:VAL:HG21	1.86	0.56
3:C:2698:LEU:HD11	3:C:2768:LEU:O	2.05	0.56
4:D:564:ASP:OD2	4:D:583:LYS:HE2	2.05	0.56
5:E:225:GLN:OE1	5:E:225:GLN:N	2.38	0.56
10:J:79:PHE:CD2	11:K:68:ALA:HB2	2.41	0.56
17:Q:68:LEU:CA	17:Q:92:ASP:CB	2.79	0.56
1:A:948:LEU:HG	1:A:1010:LYS:CG	2.31	0.56
1:A:948:LEU:HB3	1:A:1010:LYS:HD3	1.88	0.56
2:B:349:ASN:CB	2:B:416:LEU:HG	2.34	0.56
2:B:1230:MET:HE2	2:B:1267:TYR:CA	2.32	0.56
2:B:4243:ASN:HB2	2:B:4244:PRO:HD2	1.88	0.56
3:C:164:HIS:HD2	3:C:201:GLY:HA3	1.71	0.56
4:D:116:ILE:HD11	5:E:43:ARG:HH11	1.71	0.56
4:D:181:ARG:O	11:K:71:SER:HA	2.05	0.56
4:D:199:ILE:HG12	9:I:104:ALA:CB	2.36	0.56
4:D:517:ILE:HG13	4:D:550:TRP:CE2	2.41	0.56
5:E:143:GLU:OE1	5:E:493:SER:HB3	2.05	0.56
5:E:174:PRO:HB3	5:E:463:ASN:HD22	1.70	0.56
5:E:238:GLY:O	5:E:260:SER:OG	2.23	0.56
5:E:394:TRP:CD1	5:E:400:THR:C	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:515:LYS:O	5:E:515:LYS:HD3	2.05	0.56
7:G:71:LYS:HG3	7:G:72:THR:HG23	1.87	0.56
12:L:41:LEU:HD21	12:L:56:ASN:HB2	1.87	0.56
1:A:785:HIS:NE2	4:D:391:ARG:CZ	2.60	0.56
1:A:933:VAL:CG1	1:A:944:LEU:HB3	2.35	0.56
1:A:3229:PRO:HB3	1:A:3233:ILE:HD13	1.88	0.56
1:A:3232:ILE:HG23	1:A:3316:TRP:CE3	2.31	0.56
2:B:966:LYS:CD	3:C:345:TRP:CE2	2.76	0.56
2:B:2189:GLY:HA2	20:B:5403:ATP:H5'1	1.86	0.56
2:B:3203:ALA:CB	2:B:3370:LYS:CB	2.84	0.56
2:B:3268:THR:HG22	2:B:3269:LEU:HD13	1.86	0.56
2:B:3446:SER:HB3	2:B:3489:THR:CG2	2.30	0.56
4:D:89:TYR:CE2	11:K:56:PRO:CD	2.89	0.56
4:D:171:ARG:O	13:M:64:HIS:HA	2.05	0.56
5:E:141:VAL:HG13	5:E:141:VAL:O	2.05	0.56
5:E:180:SER:HB3	5:E:221:ILE:HG12	1.88	0.56
10:J:19:LYS:HE3	15:O:19:LEU:HD11	1.84	0.56
14:N:23:GLN:OE1	14:N:23:GLN:HA	2.05	0.56
15:O:105:VAL:HG12	15:O:106:GLN:HG3	1.87	0.56
16:P:82:PHE:C	16:P:84:ALA:N	2.64	0.56
17:Q:69:ASN:O	17:Q:70:MET:CB	2.53	0.56
1:A:597:VAL:HG11	4:D:502:ALA:CB	2.17	0.56
1:A:669:ALA:HB1	1:A:689:ASP:CG	2.30	0.56
1:A:913:VAL:C	1:A:1073:ALA:HB2	2.30	0.56
1:A:937:LEU:CD1	1:A:1081:ILE:CD1	2.84	0.56
1:A:1139:LEU:HB3	4:D:169:ASN:ND2	2.21	0.56
1:A:1151:MET:HA	4:D:176:ILE:CD1	2.33	0.56
1:A:3244:PHE:CD1	17:Q:104:TYR:OH	2.25	0.56
1:A:3257:VAL:HG13	1:A:3267:LEU:H	1.71	0.56
2:B:952:PRO:CD	3:C:222:PHE:C	2.77	0.56
2:B:1456:PHE:CE2	2:B:1569:VAL:HG12	2.39	0.56
2:B:1458:PHE:CZ	2:B:1560:MET:O	2.59	0.56
2:B:3600:LYS:HD2	2:B:3605:LEU:HD22	1.88	0.56
3:C:25:THR:OG1	3:C:87:SER:HB3	2.05	0.56
3:C:463:PRO:C	3:C:465:LEU:H	2.13	0.56
3:C:2708:GLN:CD	3:C:2813:ILE:CG1	2.78	0.56
4:D:195:ILE:CD1	9:I:94:LEU:HD23	2.35	0.56
4:D:640:LYS:HA	4:D:640:LYS:CE	2.34	0.56
5:E:116:VAL:CG1	6:F:99:ALA:CB	2.84	0.56
1:A:604:ALA:CB	1:A:698:GLU:HG2	2.32	0.56
1:A:2697:ARG:HH11	19:A:4701:ADP:PB	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3131:ILE:HG12	1:A:3422:LEU:HD12	1.88	0.56
1:A:3255:GLU:CD	1:A:3269:LEU:O	2.43	0.56
1:A:3261:LYS:CG	1:A:3262:GLU:H	2.06	0.56
2:B:585:ILE:HG21	2:B:644:TRP:HB2	1.87	0.56
2:B:1142:SER:O	2:B:1146:VAL:CG2	2.39	0.56
3:C:192:PRO:HG2	3:C:232:TYR:CE2	2.39	0.56
3:C:1142:VAL:HG21	3:C:1167:ILE:HD13	1.87	0.56
3:C:2670:LYS:HD2	3:C:2670:LYS:C	2.30	0.56
3:C:2799:THR:HB	3:C:2800:PRO:HD3	1.87	0.56
4:D:401:GLN:O	4:D:417:ILE:HG22	2.06	0.56
4:D:405:ASN:ND2	4:D:406:PRO:CD	2.57	0.56
14:N:72:ILE:CG1	15:O:97:ILE:CG1	2.81	0.56
15:O:102:LEU:C	15:O:102:LEU:HD13	2.31	0.56
1:A:801:ILE:HD12	1:A:862:LEU:CD2	2.34	0.56
1:A:1027:CYS:O	1:A:1088:TRP:HZ3	1.89	0.56
2:B:582:MET:SD	2:B:587:GLY:CA	2.94	0.56
3:C:195:ASN:C	3:C:239:TRP:HZ2	2.08	0.56
3:C:2771:PHE:O	3:C:2775:VAL:HG23	2.06	0.56
3:C:2794:ASN:C	3:C:2796:PRO:CD	2.79	0.56
4:D:175:THR:HG1	13:M:61:PHE:H	1.32	0.56
4:D:401:GLN:HG3	4:D:462:PHE:CE1	2.41	0.56
4:D:567:GLN:CD	4:D:578:LYS:HD2	2.28	0.56
5:E:112:LEU:HD23	5:E:116:VAL:HG23	1.87	0.56
5:E:145:LEU:CD2	5:E:494:LEU:HG	2.33	0.56
12:L:84:CYS:SG	13:M:56:ILE:HG12	2.46	0.56
1:A:634:ILE:HG21	1:A:638:TYR:HH	1.67	0.56
1:A:857:ARG:HH22	5:E:208:PRO:CD	2.19	0.56
1:A:1069:TYR:HE1	1:A:1078:THR:HG21	1.65	0.56
1:A:1637:VAL:HG11	1:A:1653:ILE:HG21	1.88	0.56
1:A:3140:GLU:O	1:A:3144:GLN:HG3	2.06	0.56
2:B:10:PRO:C	2:B:25:GLN:N	2.63	0.56
2:B:428:HIS:O	2:B:432:THR:HG23	2.05	0.56
2:B:1107:ARG:HE	2:B:1172:LYS:NZ	2.04	0.56
3:C:214:LEU:O	3:C:231:ILE:HA	2.05	0.56
3:C:2830:VAL:CG1	3:C:2834:ARG:NE	2.70	0.56
4:D:386:TYR:HB3	4:D:433:LEU:HD11	1.88	0.56
5:E:100:GLU:CA	5:E:105:PHE:CD2	2.85	0.56
12:L:58:VAL:HB	13:M:64:HIS:HE1	1.71	0.56
13:M:17:ILE:HG13	13:M:73:ILE:HD11	1.89	0.56
16:P:57:ILE:O	16:P:62:LYS:CA	2.54	0.56
1:A:697:ARG:NH2	4:D:419:SER:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:ILE:CG2	1:A:1031:ILE:O	2.53	0.55
1:A:1048:TYR:CE1	1:A:1100:LEU:HB2	2.41	0.55
1:A:1263:TYR:HD2	1:A:1283:LEU:CB	2.18	0.55
1:A:1430:ARG:HG2	1:A:1490:PHE:CG	2.41	0.55
1:A:1597:LYS:NZ	1:A:1962:ILE:HD12	2.21	0.55
1:A:1601:ARG:HD2	1:A:1630:LEU:O	2.05	0.55
1:A:3236:ILE:HA	1:A:3333:LEU:HD23	1.87	0.55
2:B:1243:LYS:CB	2:B:1251:SER:N	2.69	0.55
2:B:1467:PHE:CD2	2:B:1560:MET:CE	2.88	0.55
2:B:3268:THR:CG2	2:B:3269:LEU:HD12	2.33	0.55
4:D:255:ASN:ND2	7:G:134:GLU:CD	2.57	0.55
4:D:283:LEU:HB3	4:D:614:VAL:HG11	1.88	0.55
4:D:417:ILE:CD1	4:D:474:VAL:CG2	2.83	0.55
14:N:25:PHE:CZ	14:N:103:ILE:CD1	2.70	0.55
1:A:597:VAL:CG1	4:D:502:ALA:HB3	2.19	0.55
1:A:700:LYS:HZ3	4:D:456:LEU:H	1.55	0.55
1:A:871:LEU:HD22	1:A:872:ASP:O	2.07	0.55
1:A:2330:TYR:O	1:A:2336:PHE:HB2	2.06	0.55
2:B:4:HIS:O	2:B:7:LYS:N	2.39	0.55
2:B:2066:LEU:HD22	2:B:2118:ASP:HB3	1.88	0.55
3:C:217:PHE:HE2	3:C:268:ILE:HD12	1.71	0.55
3:C:2184:ILE:HD11	3:C:2237:ILE:HD13	1.89	0.55
3:C:2361:VAL:HG11	3:C:3113:PRO:HG2	1.88	0.55
4:D:372:VAL:HG13	4:D:414:PHE:CZ	2.41	0.55
5:E:50:LEU:HD21	12:L:23:PHE:HB3	1.87	0.55
8:H:45:ILE:HD13	8:H:86:ILE:HG23	1.89	0.55
14:N:75:GLN:HG2	15:O:94:GLY:H	1.70	0.55
1:A:594:PRO:O	1:A:596:LEU:CD1	2.54	0.55
1:A:704:ARG:HH12	4:D:456:LEU:HA	1.47	0.55
1:A:1051:GLN:NE2	1:A:1096:TYR:CE2	2.74	0.55
1:A:1176:GLU:OE1	1:A:1176:GLU:HA	2.07	0.55
1:A:3442:LYS:CG	1:A:3485:THR:CG2	2.84	0.55
2:B:436:PHE:HB2	2:B:463:PHE:CE2	2.41	0.55
2:B:514:TYR:HE2	2:B:523:LEU:HD12	1.71	0.55
2:B:669:ILE:HD12	2:B:719:VAL:CA	2.36	0.55
2:B:966:LYS:C	3:C:344:ASN:HA	2.30	0.55
2:B:997:TRP:HA	2:B:997:TRP:HE3	1.72	0.55
2:B:1058:LYS:HB2	2:B:1166:GLU:HG2	1.89	0.55
3:C:60:LEU:HD23	3:C:69:TRP:CE3	2.41	0.55
3:C:85:HIS:CD2	3:C:85:HIS:N	2.73	0.55
4:D:517:ILE:CD1	4:D:550:TRP:HZ2	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:MET:HE2	4:D:458:CYS:HB2	1.88	0.55
1:A:717:LEU:O	1:A:717:LEU:HD23	2.07	0.55
1:A:751:LEU:HD23	1:A:751:LEU:C	2.31	0.55
1:A:1152:LYS:C	1:A:1155:PRO:HD2	2.31	0.55
1:A:1195:GLU:CD	13:M:12:MET:N	2.64	0.55
1:A:2935:LEU:HD12	1:A:2938:ILE:HD11	1.89	0.55
1:A:3236:ILE:CA	1:A:3333:LEU:HD23	2.36	0.55
2:B:60:ASN:HA	2:B:81:ILE:HA	0.80	0.55
2:B:861:ASP:O	2:B:864:ASN:CG	2.48	0.55
2:B:984:ASN:O	2:B:987:ARG:HG2	2.07	0.55
2:B:1230:MET:HE1	2:B:1266:VAL:C	2.30	0.55
2:B:1329:PRO:CB	2:B:1412:PHE:C	2.79	0.55
2:B:3109:LYS:O	2:B:3113:GLU:HG3	2.06	0.55
2:B:3242:MET:HG3	2:B:3336:LEU:HD11	1.88	0.55
3:C:163:GLY:CA	3:C:174:PHE:HD2	2.18	0.55
3:C:180:LEU:HD23	3:C:187:TRP:CH2	2.41	0.55
3:C:227:SER:HB3	3:C:250:LYS:H	1.71	0.55
3:C:2796:PRO:CD	3:C:2796:PRO:O	2.54	0.55
4:D:240:SER:CB	7:G:140:ASP:OD2	2.55	0.55
4:D:367:LEU:HD12	4:D:367:LEU:C	2.32	0.55
5:E:48:ILE:CB	12:L:88:PHE:HE2	2.17	0.55
8:H:10:VAL:HG11	8:H:80:TYR:OH	2.05	0.55
11:K:46:ILE:HD11	11:K:87:ILE:HD13	1.87	0.55
1:A:683:LYS:HE2	1:A:738:GLU:HG2	1.87	0.55
1:A:739:ARG:HH11	1:A:743:LYS:HZ1	1.54	0.55
1:A:857:ARG:HH11	5:E:200:TRP:NE1	1.87	0.55
1:A:1444:GLN:CB	1:A:1559:LYS:O	2.45	0.55
2:B:489:PHE:HE1	2:B:493:ARG:HD3	1.69	0.55
2:B:857:LYS:HB3	3:C:170:GLN:H	0.49	0.55
2:B:2543:GLY:CA	19:B:5405:ADP:PA	2.92	0.55
2:B:3118:TYR:CD2	2:B:3455:SER:CB	2.87	0.55
2:B:3132:GLN:HA	2:B:3132:GLN:OE1	2.06	0.55
3:C:24:HIS:CD2	3:C:325:SER:CB	2.89	0.55
3:C:146:ARG:HA	3:C:165:GLY:HA3	1.87	0.55
3:C:2585:PHE:CB	3:C:2932:SER:CB	2.74	0.55
3:C:2593:ARG:NH2	3:C:2597:GLU:HB2	2.21	0.55
4:D:603:LEU:HD22	4:D:611:VAL:HG12	1.87	0.55
5:E:46:ASN:C	12:L:88:PHE:CZ	2.84	0.55
7:G:119:PRO:CG	9:I:12:ILE:HD13	2.35	0.55
1:A:1426:GLN:O	1:A:1430:ARG:HG3	2.07	0.55
1:A:1676:CYS:HG	1:A:1683:TRP:CD1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3317:PHE:CD1	1:A:3333:LEU:CD2	2.88	0.55
2:B:854:ASN:HD21	3:C:167:ILE:CD1	2.16	0.55
2:B:946:ARG:NH2	2:B:958:GLU:OE2	2.40	0.55
2:B:3242:MET:HA	2:B:3245:LEU:CD1	2.36	0.55
3:C:2800:PRO:HB3	3:C:2818:VAL:HG23	1.88	0.55
3:C:2927:ASP:CG	3:C:2974:ILE:CD1	2.74	0.55
4:D:536:ILE:HG22	4:D:537:ILE:HG13	1.89	0.55
5:E:43:ARG:HB3	5:E:45:PRO:HD2	1.88	0.55
5:E:80:TRP:CE3	5:E:81:PRO:CD	2.89	0.55
5:E:273:SER:O	5:E:273:SER:OG	2.23	0.55
6:F:56:TRP:CE3	6:F:74:ILE:CD1	2.80	0.55
8:H:59:CYS:O	9:I:85:TYR:HA	2.06	0.55
14:N:75:GLN:CB	15:O:93:GLN:CG	2.53	0.55
1:A:15:THR:N	2:B:19:SER:O	2.40	0.55
1:A:598:ARG:CA	4:D:460:LEU:HD13	2.37	0.55
1:A:666:SER:CB	1:A:695:LEU:CD1	2.84	0.55
1:A:1136:MET:HA	1:A:1136:MET:CE	2.26	0.55
1:A:1535:PRO:CB	2:B:3861:ASN:HD21	2.19	0.55
1:A:2220:ASN:HD22	1:A:2220:ASN:N	2.04	0.55
2:B:669:ILE:HG21	2:B:719:VAL:CG1	2.31	0.55
2:B:798:ASN:HB2	2:B:874:ALA:HB1	1.79	0.55
2:B:979:ILE:C	2:B:983:CYS:HG	2.08	0.55
4:D:91:TYR:CE2	13:M:80:LEU:CD1	2.90	0.55
5:E:48:ILE:CG1	12:L:88:PHE:HZ	2.04	0.55
5:E:59:HIS:HB2	10:J:90:HIS:NE2	2.22	0.55
8:H:65:PHE:HB3	9:I:80:GLY:HA3	1.83	0.55
9:I:85:TYR:CZ	9:I:106:LEU:HD22	2.41	0.55
15:O:76:VAL:HG12	15:O:81:ILE:HD11	1.88	0.55
1:A:1016:PHE:CE2	1:A:1069:TYR:HB2	2.42	0.55
1:A:1088:TRP:CZ2	1:A:1092:TRP:HZ2	2.25	0.55
1:A:1143:ARG:HD3	13:M:67:HIS:NE2	2.21	0.55
1:A:1446:GLN:O	1:A:1461:GLY:HA2	2.06	0.55
1:A:3237:MET:SD	1:A:3332:ILE:HG21	2.46	0.55
2:B:14:ILE:HA	2:B:23:GLY:N	2.22	0.55
2:B:555:LEU:HG	2:B:629:ILE:HD12	1.88	0.55
2:B:718:ILE:CD1	2:B:773:VAL:CG1	2.84	0.55
2:B:941:ALA:H	3:C:283:THR:HG23	1.71	0.55
2:B:953:GLY:HA2	3:C:282:ARG:NH1	2.22	0.55
2:B:953:GLY:CA	3:C:222:PHE:HA	2.35	0.55
2:B:3114:LEU:CD2	2:B:3460:TYR:CE2	2.89	0.55
2:B:3445:LYS:HG3	2:B:3487:PRO:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3454:ALA:CB	2:B:3497:ILE:HG21	2.37	0.55
3:C:53:PRO:HD2	3:C:81:PRO:HB3	1.89	0.55
3:C:53:PRO:CD	3:C:81:PRO:CB	2.85	0.55
3:C:2581:LEU:HD13	3:C:2937:TYR:OH	2.07	0.55
3:C:2736:GLU:HG2	3:C:2748:ASP:HB2	1.89	0.55
4:D:528:TRP:HD1	4:D:534:SER:C	2.15	0.55
4:D:584:ILE:HG21	4:D:614:VAL:HG23	1.86	0.55
7:G:119:PRO:HG2	9:I:12:ILE:CD1	2.37	0.55
9:I:19:MET:HB3	9:I:22:LYS:HE3	1.88	0.55
9:I:24:ILE:CG2	9:I:98:PHE:O	2.55	0.55
10:J:77:HIS:NE2	11:K:92:LYS:HG2	2.16	0.55
1:A:617:ILE:HB	1:A:644:LEU:HD21	1.87	0.55
1:A:1121:LYS:CD	1:A:1138:THR:CG2	2.76	0.55
1:A:1161:SER:HB3	11:K:16:SER:HA	1.88	0.55
1:A:3273:TYR:CD1	1:A:3276:SER:HB3	2.41	0.55
2:B:411:ALA:HA	2:B:414:VAL:CG2	2.36	0.55
2:B:436:PHE:CD1	2:B:499:LEU:CD2	2.51	0.55
2:B:2971:ILE:HG23	2:B:2974:LEU:HB2	1.89	0.55
2:B:3139:GLY:CA	2:B:3695:LEU:CD2	2.84	0.55
4:D:92:TYR:CB	13:M:29:LYS:HB3	2.37	0.55
8:H:68:PHE:CE2	9:I:61:LYS:HA	2.42	0.55
9:I:30:MET:HB3	9:I:35:LEU:HD21	1.87	0.55
12:L:92:VAL:O	12:L:92:VAL:HG12	2.07	0.55
14:N:89:GLN:NE2	14:N:116:ALA:N	2.51	0.55
1:A:909:MET:CE	1:A:955:ILE:CD1	2.70	0.55
1:A:2839:LEU:CD1	19:A:4703:ADP:C4	2.90	0.55
1:A:3128:THR:HG22	1:A:3422:LEU:HD13	1.88	0.55
1:A:3298:ILE:HG22	1:A:3300:GLU:HG3	1.89	0.55
2:B:467:VAL:CA	2:B:471:THR:HG1	2.19	0.55
2:B:532:THR:HG23	2:B:535:ILE:HB	1.88	0.55
2:B:669:ILE:H	2:B:723:ASN:ND2	2.05	0.55
2:B:913:PHE:CE2	2:B:1078:ILE:HD13	2.34	0.55
2:B:1139:LEU:HD23	2:B:1198:ILE:CG1	2.36	0.55
2:B:1201:TYR:C	2:B:1201:TYR:CD2	2.85	0.55
2:B:2409:LEU:HD21	2:B:2436:PHE:HA	1.88	0.55
2:B:3239:VAL:HB	2:B:3284:MET:CE	2.37	0.55
2:B:3321:PHE:CD2	2:B:3321:PHE:O	2.60	0.55
8:H:32:ILE:CD1	8:H:81:VAL:HG11	2.36	0.55
8:H:60:ILE:HG23	9:I:85:TYR:HB3	1.87	0.55
10:J:21:PHE:CD1	10:J:21:PHE:C	2.84	0.55
10:J:44:THR:HG22	10:J:64:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:86:CYS:SG	11:K:61:VAL:HA	2.46	0.55
12:L:51:LYS:C	12:L:51:LYS:HD3	2.32	0.55
1:A:729:GLU:CA	4:D:391:ARG:HH12	2.20	0.54
1:A:1136:MET:CA	1:A:1136:MET:CE	2.85	0.54
1:A:1190:LEU:HD23	1:A:1190:LEU:O	2.07	0.54
2:B:500:GLU:HB3	2:B:535:ILE:HG21	1.90	0.54
2:B:674:ASP:OD1	2:B:675:PRO:CD	2.55	0.54
2:B:904:LEU:HB2	2:B:1078:ILE:HG23	1.89	0.54
2:B:1106:PHE:CE1	2:B:1160:ILE:HD11	2.40	0.54
2:B:1119:LYS:HA	2:B:1122:ASP:OD2	2.07	0.54
2:B:1123:GLY:HA2	2:B:1197:PHE:HE1	1.68	0.54
3:C:24:HIS:HE1	3:C:339:GLY:O	1.90	0.54
3:C:1728:LEU:HD12	3:C:1728:LEU:O	2.06	0.54
3:C:2217:ASN:HD22	3:C:2247:THR:HG23	1.72	0.54
4:D:91:TYR:HB2	13:M:28:VAL:HG13	1.88	0.54
4:D:288:ARG:HH12	4:D:585:VAL:HG11	1.69	0.54
4:D:414:PHE:CD2	4:D:426:TRP:HD1	2.03	0.54
4:D:569:TYR:CE1	4:D:578:LYS:HG2	2.28	0.54
7:G:119:PRO:CG	9:I:12:ILE:HD12	2.33	0.54
1:A:599:ASN:ND2	4:D:398:PRO:CG	2.66	0.54
1:A:729:GLU:HG2	4:D:391:ARG:NH1	2.22	0.54
1:A:847:PHE:CZ	1:A:851:LYS:HE3	2.43	0.54
1:A:857:ARG:CZ	5:E:207:SER:N	2.70	0.54
1:A:3533:PRO:HD3	1:A:3648:THR:HG22	1.89	0.54
2:B:87:LYS:N	2:B:104:VAL:O	2.39	0.54
2:B:1330:TRP:O	2:B:1409:SER:C	2.49	0.54
2:B:1454:GLN:HB3	2:B:1473:MET:HE2	1.90	0.54
2:B:3178:VAL:CB	2:B:3395:LEU:HD21	2.33	0.54
3:C:232:TYR:CD1	3:C:232:TYR:C	2.86	0.54
3:C:289:ASP:CG	3:C:317:LYS:HE3	2.33	0.54
3:C:2807:SER:OG	3:C:2810:ALA:HB3	2.05	0.54
4:D:180:ILE:CG2	10:J:75:TYR:CE1	2.88	0.54
4:D:312:PHE:C	4:D:312:PHE:CD1	2.85	0.54
5:E:35:VAL:C	14:N:78:HIS:HD1	2.15	0.54
12:L:70:GLY:O	12:L:109:LYS:NZ	2.40	0.54
15:O:31:PRO:CB	15:O:109:ASN:HD21	2.20	0.54
15:O:45:ARG:HG3	15:O:63:LEU:HD12	1.88	0.54
1:A:97:ARG:O	1:A:122:GLU:N	2.40	0.54
1:A:550:HIS:CB	4:D:655:LEU:N	2.71	0.54
1:A:614:PHE:CE1	1:A:644:LEU:CD2	2.83	0.54
1:A:802:ILE:HA	1:A:806:ILE:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1048:TYR:HE1	1:A:1100:LEU:CB	2.20	0.54
1:A:1440:TRP:HH2	1:A:1471:LEU:HG	1.73	0.54
1:A:1525:PHE:CD1	1:A:1541:PHE:CD2	2.96	0.54
1:A:3046:PHE:CG	1:A:3100:LYS:NZ	2.74	0.54
1:A:3220:ILE:HG23	1:A:3286:PHE:CE2	2.43	0.54
1:A:3290:LEU:CD2	1:A:3335:TRP:CE2	2.59	0.54
2:B:228:LEU:CB	2:B:291:TYR:O	2.55	0.54
2:B:814:TYR:O	2:B:818:LEU:HB2	2.05	0.54
2:B:886:ILE:HD11	2:B:976:LEU:CD2	2.37	0.54
2:B:1539:ARG:HA	2:B:1546:THR:HG21	1.89	0.54
2:B:3243:LYS:CE	2:B:3285:ASN:O	2.56	0.54
3:C:113:ILE:CD1	3:C:185:PHE:CE1	2.89	0.54
3:C:2581:LEU:CG	3:C:2936:SER:CB	2.86	0.54
3:C:2687:ALA:CB	3:C:2830:VAL:HG21	2.37	0.54
4:D:174:GLN:NE2	12:L:51:LYS:N	2.43	0.54
4:D:417:ILE:HG23	4:D:417:ILE:O	2.07	0.54
5:E:82:GLY:HA2	8:H:12:LYS:HZ1	1.70	0.54
5:E:259:ASN:ND2	5:E:298:ALA:O	2.41	0.54
5:E:425:PHE:HE2	5:E:427:LEU:HD11	1.72	0.54
5:E:471:ASN:H	5:E:474:LYS:HE2	1.71	0.54
6:F:84:SER:HB2	6:F:102:LEU:HB3	1.87	0.54
10:J:79:PHE:HE2	11:K:88:LEU:HD23	1.72	0.54
1:A:3270:LYS:HD2	17:Q:59:SER:N	2.20	0.54
2:B:225:PRO:CA	2:B:298:LEU:CB	2.86	0.54
2:B:467:VAL:CG1	2:B:471:THR:HG1	2.17	0.54
2:B:718:ILE:CD1	2:B:770:LYS:HA	2.35	0.54
2:B:725:ILE:HD12	2:B:780:VAL:CG2	2.38	0.54
2:B:1467:PHE:CE1	2:B:1569:VAL:CG1	2.90	0.54
3:C:442:ILE:O	3:C:443:THR:C	2.49	0.54
4:D:509:ASN:HD22	4:D:644:ILE:HD13	1.73	0.54
10:J:19:LYS:CE	15:O:19:LEU:HD11	2.38	0.54
10:J:29:PRO:HB3	15:O:106:GLN:NE2	2.22	0.54
10:J:78:VAL:HG22	10:J:107:MET:HB3	1.90	0.54
1:A:306:LYS:O	1:A:310:ALA:CB	2.55	0.54
1:A:704:ARG:HB3	4:D:478:GLU:CG	2.34	0.54
1:A:1126:VAL:HG11	1:A:1201:TYR:CE1	2.42	0.54
1:A:1205:GLN:HA	1:A:1208:TYR:HB2	1.90	0.54
1:A:1230:TYR:O	1:A:1256:TYR:HA	2.00	0.54
2:B:902:ILE:HG23	2:B:915:PRO:HG3	1.90	0.54
2:B:2411:ALA:HB3	2:B:2526:ILE:HG23	1.89	0.54
2:B:2863:VAL:HG23	19:B:5406:ADP:N1	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3118:TYR:CE2	2:B:3452:LEU:N	2.60	0.54
4:D:537:ILE:HD11	4:D:647:TYR:CE2	2.43	0.54
4:D:620:LEU:O	4:D:620:LEU:CD1	2.48	0.54
5:E:20:PHE:HE2	15:O:80:LYS:HD2	1.69	0.54
5:E:116:VAL:CG1	6:F:99:ALA:HB2	2.37	0.54
5:E:117:GLU:CD	6:F:17:LEU:HD21	2.30	0.54
5:E:310:LEU:HD12	5:E:358:ARG:NH1	2.21	0.54
5:E:392:LYS:HD2	5:E:394:TRP:CZ2	2.42	0.54
10:J:26:VAL:HG23	10:J:98:PHE:N	2.20	0.54
15:O:24:TYR:HD1	15:O:26:LYS:HE2	1.73	0.54
1:A:121:GLY:C	2:B:105:ALA:O	2.50	0.54
1:A:599:ASN:CG	4:D:398:PRO:CG	2.51	0.54
1:A:675:ILE:HA	1:A:687:ASN:HB2	1.89	0.54
1:A:714:ARG:O	1:A:718:LEU:HG	2.07	0.54
1:A:729:GLU:HG2	4:D:391:ARG:HH12	1.72	0.54
1:A:868:LEU:N	1:A:868:LEU:CD1	2.70	0.54
1:A:3232:ILE:CD1	1:A:3316:TRP:CE3	2.76	0.54
2:B:10:PRO:C	2:B:25:GLN:H	2.13	0.54
2:B:609:LEU:N	2:B:609:LEU:HD22	2.22	0.54
2:B:911:ILE:HD12	2:B:991:ASP:OD2	2.08	0.54
2:B:2960:ILE:HB	2:B:2961:PRO:HD3	1.90	0.54
2:B:3499:THR:HG21	2:B:3507:TRP:CH2	2.42	0.54
3:C:2720:PRO:C	3:C:2798:PHE:CE2	2.86	0.54
3:C:2739:GLU:N	3:C:2746:PRO:HB3	2.08	0.54
4:D:175:THR:H	13:M:61:PHE:C	2.13	0.54
4:D:248:MET:HG3	7:G:145:LEU:HD22	1.88	0.54
5:E:153:PHE:HB3	5:E:200:TRP:CE2	2.42	0.54
5:E:378:GLN:OE1	5:E:378:GLN:HA	2.08	0.54
6:F:73:ASP:OD1	7:G:131:LYS:HB2	2.08	0.54
8:H:66:GLY:CA	9:I:79:ILE:O	2.55	0.54
12:L:72:GLY:O	12:L:109:LYS:HE3	2.08	0.54
13:M:72:TYR:CD1	13:M:72:TYR:C	2.85	0.54
1:A:686:VAL:HG23	1:A:734:LEU:HD12	1.88	0.54
1:A:704:ARG:NE	4:D:457:ALA:CB	2.68	0.54
1:A:1396:PRO:HA	1:A:1400:TYR:CA	2.37	0.54
1:A:1416:ILE:O	1:A:1420:THR:CG2	2.55	0.54
1:A:1450:TRP:CH2	1:A:1519:THR:HG23	2.42	0.54
1:A:3247:ARG:CA	17:Q:105:ASN:O	2.56	0.54
1:A:3249:ILE:HD13	17:Q:106:PHE:CE2	2.42	0.54
1:A:3270:LYS:HA	17:Q:61:SER:CB	2.24	0.54
2:B:641:ILE:HG12	2:B:645:GLU:OE2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:790:ILE:HD13	2:B:863:VAL:HG13	1.90	0.54
2:B:960:ARG:CD	3:C:287:PHE:CZ	2.78	0.54
2:B:1455:VAL:CG1	2:B:1456:PHE:H	2.18	0.54
2:B:3239:VAL:HG11	2:B:3291:ILE:CD1	2.37	0.54
3:C:2794:ASN:C	3:C:2796:PRO:HD3	2.33	0.54
3:C:2927:ASP:OD2	3:C:2974:ILE:HD13	2.06	0.54
4:D:107:VAL:HG22	15:O:97:ILE:O	1.99	0.54
4:D:208:TYR:N	9:I:24:ILE:CD1	2.66	0.54
5:E:146:SER:H	5:E:491:CYS:HB2	1.73	0.54
6:F:26:PHE:CD1	6:F:49:ALA:HA	2.42	0.54
6:F:55:LEU:HB2	7:G:113:VAL:HG21	1.89	0.54
9:I:62:TYR:CD1	9:I:62:TYR:C	2.85	0.54
12:L:59:LYS:HB2	12:L:59:LYS:HZ2	1.71	0.54
16:P:16:GLU:CB	16:P:74:LEU:CA	2.82	0.54
2:B:956:LEU:HA	2:B:959:ILE:CG1	2.38	0.54
2:B:984:ASN:HA	2:B:987:ARG:CD	2.37	0.54
2:B:1474:MET:SD	2:B:1515:VAL:HG21	2.48	0.54
2:B:2544:LYS:N	19:B:5405:ADP:PA	2.78	0.54
2:B:3085:VAL:HG21	2:B:3456:ALA:HB1	1.89	0.54
2:B:3314:ILE:CG1	2:B:3321:PHE:CE2	2.68	0.54
2:B:3399:GLU:O	2:B:3403:MET:HG2	2.07	0.54
2:B:4311:SER:HA	2:B:4391:ILE:HG21	1.90	0.54
3:C:9:GLN:OE1	3:C:350:TRP:CZ2	2.61	0.54
3:C:2585:PHE:HA	3:C:2932:SER:HB3	1.88	0.54
4:D:174:GLN:CD	12:L:49:LEU:HB3	2.33	0.54
5:E:59:HIS:CE1	10:J:31:GLU:OE1	2.60	0.54
5:E:110:LYS:HG2	6:F:10:GLN:CG	2.38	0.54
6:F:81:THR:HG1	7:G:121:ASN:CG	2.16	0.54
8:H:66:GLY:O	9:I:79:ILE:N	2.35	0.54
9:I:96:PHE:HE1	9:I:98:PHE:CD2	2.26	0.54
1:A:761:LEU:CD2	1:A:874:HIS:CE1	2.76	0.54
1:A:937:LEU:CD1	1:A:1081:ILE:CG1	2.84	0.54
1:A:989:ILE:HG23	1:A:995:ILE:HG21	1.90	0.54
1:A:4505:THR:HG22	1:A:4558:VAL:HG12	1.90	0.54
2:B:638:ASP:O	2:B:642:LEU:HB2	2.07	0.54
2:B:952:PRO:CD	3:C:223:THR:CB	2.62	0.54
2:B:954:ASP:N	3:C:282:ARG:CZ	2.71	0.54
2:B:3122:LEU:HD11	2:B:3448:ILE:HG12	1.89	0.54
3:C:25:THR:HG22	3:C:85:HIS:CE1	2.42	0.54
3:C:253:LEU:HD12	3:C:253:LEU:C	2.32	0.54
3:C:2917:LEU:HA	3:C:2920:GLN:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:58:GLU:HA	10:J:89:VAL:HA	1.89	0.54
5:E:70:ASP:OD1	8:H:70:THR:CB	2.52	0.54
1:A:891:PHE:HD1	1:A:972:TRP:CD2	2.25	0.54
1:A:1060:GLU:O	1:A:1063:GLU:HB3	2.08	0.54
1:A:3914:ASN:O	1:A:3950:ARG:NH1	2.40	0.54
2:B:260:LEU:HA	2:B:264:LYS:N	2.23	0.54
2:B:725:ILE:HD11	2:B:777:PHE:CA	2.07	0.54
2:B:900:PHE:HZ	2:B:933:TRP:CZ2	2.26	0.54
2:B:979:ILE:C	2:B:983:CYS:SG	2.87	0.54
2:B:984:ASN:HA	2:B:987:ARG:HD3	1.90	0.54
2:B:1057:LEU:HD11	2:B:1098:TYR:CE2	2.43	0.54
2:B:1378:LEU:CB	2:B:1424:GLU:CG	2.85	0.54
2:B:3139:GLY:CA	2:B:3695:LEU:HD21	2.38	0.54
2:B:3878:ILE:HG12	2:B:3887:ALA:HB2	1.90	0.54
3:C:10:LEU:HD21	3:C:66:ASN:CA	2.37	0.54
3:C:2701:ILE:HG13	3:C:2704:LYS:HB2	1.90	0.54
4:D:251:MET:CE	7:G:136:MET:HE3	2.37	0.54
5:E:394:TRP:HD1	5:E:400:THR:C	2.16	0.54
7:G:33:LYS:O	7:G:34:SER:C	2.51	0.54
10:J:99:TYR:CE1	10:J:104:ALA:HB2	2.43	0.54
11:K:5:ALA:HB2	11:K:81:TYR:HB2	1.89	0.54
12:L:98:LEU:HB2	12:L:101:SER:HB2	1.90	0.54
14:N:117:VAL:O	14:N:117:VAL:HG12	2.08	0.54
1:A:1013:VAL:HG13	1:A:1076:LEU:CD2	2.38	0.53
1:A:1146:GLN:NE2	13:M:10:THR:H	2.05	0.53
1:A:1417:GLU:HG2	1:A:1421:GLU:HG2	1.85	0.53
1:A:3345:LYS:CA	1:A:3345:LYS:CE	2.85	0.53
2:B:58:SER:O	2:B:68:SER:O	0.58	0.53
2:B:721:ASN:ND2	2:B:773:VAL:HG12	2.24	0.53
2:B:904:LEU:HD23	2:B:1080:LEU:HG	1.89	0.53
2:B:3220:ALA:HB3	2:B:3353:VAL:HG23	1.89	0.53
3:C:110:ASP:HB2	3:C:128:ILE:HG12	1.89	0.53
3:C:2892:ARG:CB	3:C:3184:LEU:HB3	2.38	0.53
4:D:180:ILE:HG21	10:J:75:TYR:CZ	2.43	0.53
4:D:563:MET:O	4:D:563:MET:HE3	2.08	0.53
5:E:35:VAL:O	14:N:78:HIS:CE1	2.61	0.53
5:E:308:GLU:OE2	5:E:361:LEU:CD2	2.56	0.53
5:E:342:ILE:HB	5:E:359:TYR:HB2	1.89	0.53
14:N:82:SER:OG	15:O:57:ASN:OD1	2.26	0.53
1:A:752:LEU:HD21	1:A:795:ILE:HG12	1.90	0.53
1:A:935:VAL:CG1	1:A:1017:LEU:HD22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:992:ASP:CG	1:A:995:ILE:HG12	2.34	0.53
2:B:583:PRO:HG2	2:B:683:GLU:HA	1.88	0.53
2:B:762:ILE:O	2:B:766:ILE:HB	2.07	0.53
2:B:3850:LEU:O	2:B:3931:ARG:NH2	2.42	0.53
3:C:34:ILE:CG2	3:C:57:VAL:CG1	2.86	0.53
3:C:127:GLN:OE1	3:C:127:GLN:HA	2.07	0.53
3:C:2793:LEU:O	3:C:2796:PRO:O	2.25	0.53
3:C:4130:VAL:HG23	3:C:4165:MET:HE2	1.90	0.53
4:D:172:GLU:CD	12:L:51:LYS:HE2	2.33	0.53
4:D:174:GLN:HB3	13:M:62:GLY:HA3	1.79	0.53
4:D:265:ARG:HD3	5:E:125:GLN:HA	1.89	0.53
5:E:26:ARG:NH2	5:E:26:ARG:HB2	2.23	0.53
5:E:42:GLN:NE2	12:L:91:ASN:ND2	2.50	0.53
5:E:56:LEU:HD23	10:J:91:ASN:CA	2.35	0.53
5:E:162:ARG:HA	5:E:183:ILE:HD11	1.90	0.53
8:H:62:GLY:CA	9:I:82:GLY:O	2.56	0.53
10:J:26:VAL:CG2	10:J:97:TYR:C	2.68	0.53
10:J:82:LYS:HG3	11:K:65:HIS:NE2	2.23	0.53
12:L:17:PRO:HG2	12:L:35:ILE:HG22	1.90	0.53
12:L:69:ILE:HG22	12:L:69:ILE:O	2.07	0.53
1:A:1597:LYS:HZ1	1:A:1962:ILE:HD11	1.74	0.53
1:A:1634:ILE:HD13	1:A:1656:ILE:HG22	1.88	0.53
1:A:2061:THR:HG22	1:A:2073:LEU:HD22	1.90	0.53
1:A:2498:ALA:HA	19:A:4701:ADP:O2A	2.07	0.53
2:B:530:LEU:HD12	2:B:530:LEU:O	2.07	0.53
2:B:744:MET:HE1	2:B:772:ILE:CG2	2.35	0.53
2:B:2742:ARG:HG3	19:B:5405:ADP:O3'	2.08	0.53
2:B:3810:GLN:O	2:B:3814:ARG:HD3	2.09	0.53
3:C:10:LEU:HD11	3:C:67:CYS:CB	2.39	0.53
3:C:25:THR:CG2	3:C:87:SER:HB2	2.36	0.53
3:C:214:LEU:HD13	3:C:214:LEU:N	2.23	0.53
3:C:1726:TYR:CE2	3:C:1728:LEU:HD21	2.44	0.53
4:D:617:SER:OG	4:D:618:PRO:CD	2.52	0.53
5:E:20:PHE:HE1	14:N:89:GLN:HA	1.67	0.53
5:E:113:LYS:HE2	6:F:13:GLN:HB2	1.91	0.53
7:G:37:ARG:O	7:G:38:LYS:C	2.52	0.53
8:H:60:ILE:CA	9:I:85:TYR:HB3	2.38	0.53
10:J:36:ILE:HG23	10:J:72:PHE:CE1	2.44	0.53
1:A:3230:LEU:N	1:A:3233:ILE:HG22	2.23	0.53
1:A:3304:GLU:CB	17:Q:77:LEU:CA	2.86	0.53
2:B:436:PHE:CD2	2:B:463:PHE:CG	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:791:HIS:NE2	2:B:866:ILE:CD1	2.71	0.53
2:B:1437:GLU:CG	2:B:1493:TYR:CB	2.77	0.53
3:C:1060:LEU:HD21	3:C:1148:LEU:HD13	1.90	0.53
4:D:106:ILE:HD12	4:D:106:ILE:C	2.34	0.53
5:E:50:LEU:HD21	12:L:23:PHE:HB2	1.86	0.53
14:N:68:CYS:HA	15:O:101:CYS:HA	1.90	0.53
14:N:85:ILE:HG21	14:N:98:ILE:CG1	2.38	0.53
1:A:1051:GLN:CD	1:A:1096:TYR:HH	1.90	0.53
1:A:3121:LEU:HD21	1:A:3429:TRP:HB3	0.57	0.53
1:A:3250:PRO:CD	17:Q:106:PHE:HD2	2.19	0.53
1:A:3304:GLU:C	17:Q:78:SER:O	2.45	0.53
1:A:3306:LEU:HD11	1:A:3310:LEU:CD2	2.39	0.53
2:B:1531:ILE:HD11	2:B:1618:LEU:HD22	1.89	0.53
2:B:3303:GLU:OE1	2:B:3306:ILE:HD12	2.08	0.53
2:B:3927:LEU:HD22	2:B:3938:MET:HE1	1.91	0.53
3:C:43:LYS:HG2	3:C:51:ILE:HD12	1.91	0.53
3:C:3927:VAL:HG21	3:C:4031:ALA:HB2	1.90	0.53
4:D:111:MET:CE	15:O:90:ILE:HG22	2.22	0.53
4:D:288:ARG:HB2	4:D:612:THR:HG22	1.91	0.53
4:D:401:GLN:HB3	4:D:417:ILE:HG21	1.90	0.53
4:D:564:ASP:CG	4:D:583:LYS:CE	2.76	0.53
5:E:48:ILE:HB	12:L:93:LEU:HD23	1.90	0.53
5:E:77:GLU:OE1	5:E:86:PRO:HB2	2.08	0.53
12:L:58:VAL:HG21	13:M:64:HIS:CE1	2.44	0.53
13:M:21:LYS:HB3	13:M:21:LYS:NZ	2.23	0.53
15:O:45:ARG:HB2	15:O:63:LEU:HD11	1.90	0.53
1:A:732:TYR:CE1	4:D:391:ARG:CB	2.67	0.53
1:A:948:LEU:HB2	1:A:1010:LYS:CD	2.39	0.53
1:A:1034:SER:HB3	1:A:1092:TRP:HZ3	1.74	0.53
1:A:3550:ILE:HG12	1:A:3554:CYS:HB2	1.91	0.53
1:A:4046:CYS:SG	1:A:4074:ILE:HG23	2.49	0.53
2:B:862:TYR:CD1	2:B:862:TYR:C	2.86	0.53
2:B:966:LYS:HD3	3:C:344:ASN:C	2.32	0.53
2:B:1081:GLN:HA	2:B:1081:GLN:NE2	2.24	0.53
3:C:289:ASP:OD2	3:C:317:LYS:HB2	2.09	0.53
3:C:1559:LEU:CD2	3:C:1607:LEU:HD21	2.38	0.53
4:D:201:GLN:NE2	9:I:102:ASN:CA	2.70	0.53
4:D:260:LYS:CB	4:D:287:TRP:CZ2	2.91	0.53
4:D:536:ILE:HD13	4:D:648:GLU:HG3	1.89	0.53
4:D:537:ILE:CD1	4:D:647:TYR:OH	2.56	0.53
5:E:57:SER:OG	10:J:90:HIS:CE1	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:74:ILE:CD1	6:F:77:ILE:HD11	2.28	0.53
1:A:607:ILE:HG13	1:A:654:TRP:HE1	1.73	0.53
1:A:791:LEU:HG	1:A:795:ILE:CD1	2.39	0.53
1:A:1263:TYR:HE2	1:A:1280:TYR:CA	2.21	0.53
1:A:3260:LYS:HZ3	1:A:3267:LEU:CD2	2.21	0.53
2:B:651:SER:OG	2:B:680:LEU:CD2	2.52	0.53
2:B:798:ASN:CB	2:B:874:ALA:HA	2.39	0.53
2:B:909:SER:C	2:B:995:TYR:HE1	2.16	0.53
2:B:1230:MET:CE	2:B:1267:TYR:HA	2.36	0.53
3:C:1880:VAL:HA	3:C:1883:ILE:HD12	1.90	0.53
3:C:2593:ARG:NH2	3:C:2597:GLU:OE1	2.34	0.53
3:C:3064:ILE:HG13	3:C:3115:ILE:HD12	1.90	0.53
4:D:528:TRP:NE1	4:D:535:GLN:N	2.56	0.53
4:D:569:TYR:CE2	4:D:578:LYS:HG3	2.40	0.53
5:E:59:HIS:CD2	10:J:31:GLU:OE1	2.61	0.53
5:E:492:ASP:CA	5:E:495:TYR:CZ	2.80	0.53
10:J:40:ALA:CB	10:J:68:MET:HE1	2.39	0.53
15:O:65:LEU:HD12	15:O:65:LEU:O	2.09	0.53
1:A:869:TYR:O	1:A:871:LEU:HD12	2.08	0.53
1:A:936:GLN:C	1:A:937:LEU:HD12	2.33	0.53
1:A:2746:VAL:HG12	1:A:3026:TRP:CD2	2.44	0.53
2:B:468:GLN:HA	2:B:471:THR:HB	1.91	0.53
2:B:1001:GLU:O	2:B:1094:TRP:CZ2	2.62	0.53
3:C:2848:THR:O	3:C:2852:ASN:CG	2.52	0.53
4:D:573:VAL:O	4:D:574:ASP:OD1	2.27	0.53
6:F:35:ARG:NH2	6:F:41:SER:CB	2.71	0.53
6:F:50:ALA:HB1	8:H:83:GLN:CB	2.39	0.53
9:I:11:ASP:H	9:I:14:GLU:HB2	1.73	0.53
11:K:25:ALA:HB1	11:K:80:PHE:HE2	1.73	0.53
15:O:64:VAL:HG22	15:O:85:VAL:HB	1.90	0.53
1:A:573:LEU:HD22	1:A:633:GLU:HG2	1.90	0.53
1:A:700:LYS:HZ3	4:D:456:LEU:CG	2.22	0.53
1:A:1511:TRP:CB	1:A:1574:LEU:HD11	2.38	0.53
1:A:2877:THR:HG21	1:A:2923:LEU:HD13	1.91	0.53
2:B:459:ILE:HD11	2:B:502:ARG:HB3	1.90	0.53
2:B:575:ASN:HB2	5:E:481:GLN:CD	2.34	0.53
2:B:582:MET:CE	2:B:587:GLY:HA3	2.03	0.53
2:B:2023:ARG:NH2	2:B:4194:MET:SD	2.82	0.53
2:B:3264:ASN:ND2	2:B:3303:GLU:CD	2.64	0.53
3:C:702:PHE:O	3:C:706:LYS:CB	2.56	0.53
3:C:2055:ILE:HG22	3:C:2059:LEU:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2738:ILE:C	3:C:2746:PRO:HG3	2.22	0.53
4:D:68:GLU:HG2	5:E:12:LYS:CA	2.34	0.53
4:D:252:VAL:HA	7:G:149:GLN:NE2	2.23	0.53
4:D:404:TRP:CZ3	4:D:412:TYR:HB3	2.44	0.53
4:D:531:LYS:NZ	4:D:532:TYR:CE2	2.71	0.53
5:E:420:THR:CG2	5:E:472:SER:CB	2.85	0.53
7:G:30:ILE:O	7:G:31:TYR:C	2.51	0.53
8:H:69:VAL:HG23	8:H:71:PHE:HD2	1.74	0.53
10:J:43:GLU:HG2	10:J:67:TYR:CE2	2.43	0.53
10:J:79:PHE:CD2	11:K:68:ALA:HB3	2.40	0.53
1:A:700:LYS:HZ3	4:D:456:LEU:CB	2.22	0.53
1:A:751:LEU:HD21	1:A:866:ILE:HD13	1.90	0.53
1:A:793:GLN:H	5:E:433:TRP:HH2	1.55	0.53
1:A:801:ILE:CG1	5:E:149:THR:CG2	2.66	0.53
1:A:1624:GLN:HA	1:A:1627:PHE:CD2	2.44	0.53
1:A:1631:PHE:HZ	1:A:1684:LEU:HD22	1.74	0.53
1:A:3269:LEU:HD21	1:A:3312:GLN:CD	2.34	0.53
1:A:3307:GLU:CG	17:Q:56:SER:H	2.22	0.53
2:B:426:ILE:HG12	2:B:485:PHE:CZ	2.44	0.53
2:B:938:PHE:O	3:C:283:THR:CG2	2.56	0.53
2:B:957:GLN:NE2	3:C:252:ASN:HD22	2.07	0.53
2:B:1468:ALA:O	2:B:1469:SER:CB	2.57	0.53
2:B:1521:VAL:HG22	2:B:1585:SER:HB3	1.90	0.53
2:B:1612:LEU:HD11	2:B:1637:CYS:HG	1.72	0.53
2:B:3288:GLN:NE2	2:B:3288:GLN:HA	2.24	0.53
2:B:3422:LEU:HD12	2:B:3716:LEU:HD11	1.91	0.53
3:C:147:TYR:C	3:C:147:TYR:CD2	2.87	0.53
3:C:972:LEU:HD11	3:C:1017:MET:HE3	1.91	0.53
3:C:1081:ILE:HD11	3:C:1117:GLN:CB	2.38	0.53
3:C:2585:PHE:CE1	3:C:2929:LEU:CB	2.90	0.53
3:C:2701:ILE:HG13	3:C:2704:LYS:CG	2.38	0.53
4:D:174:GLN:OE1	12:L:49:LEU:HB3	2.08	0.53
4:D:174:GLN:HE22	12:L:49:LEU:HB3	1.73	0.53
4:D:212:ILE:CD1	9:I:15:LEU:HD22	2.33	0.53
10:J:31:GLU:HB2	10:J:95:PHE:O	2.09	0.53
10:J:36:ILE:HG23	10:J:72:PHE:CE2	2.44	0.53
10:J:97:TYR:HB2	10:J:106:LEU:CD1	2.38	0.53
13:M:53:TRP:HZ3	13:M:86:LYS:HD2	1.73	0.53
1:A:801:ILE:N	5:E:149:THR:H	2.01	0.52
1:A:879:LEU:HD12	1:A:882:GLU:CD	2.34	0.52
1:A:1016:PHE:CE2	1:A:1076:LEU:CB	2.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1016:PHE:CD2	1:A:1020:PHE:CE2	2.97	0.52
1:A:1062:ILE:HG23	1:A:1082:CYS:SG	2.49	0.52
1:A:1428:LYS:O	1:A:1431:THR:OG1	2.24	0.52
2:B:1099:THR:O	2:B:1163:ARG:NH1	2.42	0.52
2:B:1584:TRP:HA	2:B:1584:TRP:HE3	1.74	0.52
2:B:3078:ILE:CD1	2:B:3452:LEU:CD2	2.84	0.52
2:B:3931:ARG:HB2	2:B:3938:MET:HE3	1.90	0.52
3:C:1236:ASN:HB3	3:C:1240:MET:HE2	1.90	0.52
4:D:261:TYR:O	5:E:125:GLN:OE1	2.26	0.52
4:D:269:SER:HB2	4:D:618:PRO:CD	2.39	0.52
5:E:56:LEU:HD23	10:J:91:ASN:HA	1.91	0.52
5:E:259:ASN:CG	5:E:299:GLY:HA3	2.28	0.52
6:F:11:LEU:CB	6:F:23:TYR:CZ	2.93	0.52
7:G:17:ILE:O	7:G:18:GLN:C	2.52	0.52
1:A:18:CYS:CB	2:B:17:ARG:CB	2.87	0.52
1:A:156:VAL:CB	2:B:168:ILE:C	2.83	0.52
1:A:819:VAL:HA	1:A:840:TYR:HE2	1.74	0.52
1:A:857:ARG:NH2	5:E:206:ASN:O	2.43	0.52
1:A:1016:PHE:CE2	1:A:1076:LEU:HB2	2.44	0.52
1:A:1041:ASN:HD21	1:A:1096:TYR:HE1	1.57	0.52
1:A:1144:LYS:HG2	4:D:172:GLU:HG2	1.91	0.52
1:A:1620:PRO:HB2	1:A:1639:PHE:CZ	2.44	0.52
1:A:1868:GLY:O	1:A:1973:PHE:HA	2.10	0.52
1:A:3117:PHE:CD2	1:A:3429:TRP:HE3	2.27	0.52
1:A:3212:VAL:HG13	1:A:3335:TRP:NE1	2.25	0.52
1:A:3249:ILE:HD11	1:A:3273:TYR:C	2.34	0.52
2:B:433:ILE:CB	2:B:463:PHE:CZ	2.88	0.52
2:B:642:LEU:CD1	2:B:646:LYS:HE3	2.39	0.52
2:B:658:GLN:HG3	2:B:672:ASN:O	2.07	0.52
2:B:3231:VAL:CG1	2:B:3339:TRP:CD1	2.92	0.52
3:C:346:LEU:CD1	3:C:346:LEU:N	2.73	0.52
3:C:2597:GLU:OE1	3:C:2597:GLU:HA	2.09	0.52
3:C:4082:TRP:CZ2	3:C:4091:GLY:HA3	2.44	0.52
4:D:180:ILE:CG2	10:J:75:TYR:HE1	2.22	0.52
4:D:240:SER:HB2	7:G:140:ASP:OD2	2.09	0.52
4:D:251:MET:HB3	7:G:136:MET:HE1	0.54	0.52
7:G:35:LEU:O	7:G:36:LYS:C	2.52	0.52
1:A:5:LYS:C	1:A:6:TYR:N	2.67	0.52
1:A:745:LYS:HB3	1:A:746:PRO:HD2	1.90	0.52
1:A:747:ILE:HD13	1:A:889:TYR:CD1	2.43	0.52
1:A:1048:TYR:CE1	1:A:1100:LEU:CB	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1445:PHE:HE2	1:A:1564:CYS:HB3	0.72	0.52
1:A:1449:ILE:HG13	1:A:1452:LYS:HZ1	1.72	0.52
1:A:1458:MET:CE	1:A:1548:TRP:HD1	2.22	0.52
1:A:2143:LEU:HD23	1:A:2170:LEU:HD12	1.91	0.52
1:A:2960:LEU:HA	1:A:2963:ILE:HD12	1.92	0.52
1:A:3230:LEU:H	1:A:3233:ILE:HG21	1.75	0.52
1:A:3347:LYS:O	1:A:3351:PRO:CG	2.56	0.52
2:B:59:THR:O	2:B:81:ILE:C	2.51	0.52
2:B:412:LEU:HD13	2:B:412:LEU:O	2.08	0.52
2:B:467:VAL:HG12	2:B:471:THR:CB	2.35	0.52
2:B:579:PHE:CZ	5:E:369:PRO:CG	2.85	0.52
2:B:888:PRO:HA	2:B:891:ILE:HG21	1.90	0.52
2:B:1002:GLN:CA	2:B:1094:TRP:CZ2	2.81	0.52
2:B:1116:PHE:CA	2:B:1119:LYS:HZ3	2.16	0.52
2:B:1123:GLY:CA	2:B:1197:PHE:CE1	2.83	0.52
2:B:1125:LYS:HG3	2:B:1200:ILE:CG2	2.39	0.52
2:B:1514:VAL:HG12	2:B:1570:VAL:HG22	1.92	0.52
2:B:3272:PRO:HG2	2:B:3275:LYS:HG3	1.92	0.52
2:B:4152:ASN:HD21	2:B:4553:ARG:CZ	2.22	0.52
3:C:106:LEU:HD23	3:C:133:PRO:HB2	1.90	0.52
3:C:172:LEU:C	3:C:172:LEU:HD12	2.34	0.52
3:C:2780:VAL:HG12	3:C:2786:ASN:HD21	1.74	0.52
4:D:297:LYS:HZ3	4:D:328:LEU:CG	2.22	0.52
5:E:41:VAL:HG22	5:E:42:GLN:HG3	1.91	0.52
7:G:18:GLN:O	7:G:19:GLN:C	2.52	0.52
11:K:80:PHE:CD1	11:K:80:PHE:C	2.88	0.52
1:A:617:ILE:CD1	1:A:647:GLN:NE2	2.63	0.52
1:A:770:LEU:HD22	1:A:774:SER:OG	2.10	0.52
1:A:1012:LYS:NZ	1:A:1072:GLY:HA3	2.25	0.52
1:A:1048:TYR:CE1	1:A:1100:LEU:HA	2.43	0.52
1:A:1126:VAL:HG13	1:A:1131:SER:OG	2.09	0.52
1:A:1535:PRO:HB3	2:B:3861:ASN:HD21	1.75	0.52
1:A:3232:ILE:CB	1:A:3316:TRP:CE3	2.92	0.52
2:B:57:ASN:O	2:B:84:PHE:N	2.41	0.52
2:B:729:LEU:CD1	2:B:780:VAL:HG22	2.40	0.52
2:B:766:ILE:HG23	2:B:770:LYS:HE2	1.91	0.52
2:B:952:PRO:HG3	3:C:223:THR:CA	1.01	0.52
3:C:10:LEU:HD23	3:C:65:ASN:CA	2.39	0.52
3:C:113:ILE:HD13	3:C:185:PHE:HZ	1.69	0.52
3:C:2596:LEU:CG	3:C:2924:MET:HE1	2.18	0.52
4:D:291:ASN:HB3	4:D:294:GLN:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:584:ILE:CG2	4:D:614:VAL:HG22	2.37	0.52
4:D:636:MET:HA	4:D:636:MET:CE	2.40	0.52
5:E:49:ASP:OD1	12:L:85:SER:HB2	2.09	0.52
6:F:54:ASP:CG	7:G:109:LYS:CE	2.82	0.52
9:I:24:ILE:CD1	9:I:98:PHE:HE1	2.22	0.52
10:J:38:GLU:HG3	15:O:29:PHE:CZ	2.45	0.52
12:L:92:VAL:HG11	12:L:109:LYS:HB2	1.91	0.52
14:N:83:VAL:HG22	15:O:86:VAL:HG23	1.90	0.52
16:P:10:THR:CB	16:P:66:ILE:N	2.73	0.52
16:P:57:ILE:O	16:P:62:LYS:N	2.43	0.52
1:A:906:LEU:CB	1:A:998:VAL:HG11	2.37	0.52
1:A:3191:LYS:HZ2	1:A:3191:LYS:CB	2.23	0.52
1:A:3257:VAL:HG13	1:A:3266:VAL:CA	2.35	0.52
1:A:3257:VAL:HG13	1:A:3267:LEU:N	2.25	0.52
1:A:3305:LEU:CB	17:Q:80:SER:N	2.34	0.52
1:A:3442:LYS:HD2	1:A:3485:THR:CG2	2.39	0.52
2:B:58:SER:CB	2:B:70:LYS:CB	2.88	0.52
2:B:591:TRP:HD1	5:E:411:TYR:HH	1.52	0.52
2:B:801:ILE:HD12	2:B:879:LEU:N	2.22	0.52
2:B:879:LEU:HB3	2:B:968:CYS:SG	2.50	0.52
2:B:1087:LEU:O	2:B:1091:VAL:HG23	2.10	0.52
3:C:58:PHE:CD2	3:C:71:GLN:HB3	2.45	0.52
3:C:159:TYR:HD1	3:C:179:VAL:HG21	1.60	0.52
3:C:2719:VAL:HG13	3:C:2720:PRO:CD	2.26	0.52
3:C:2721:GLU:OE1	3:C:2814:CYS:SG	2.67	0.52
4:D:379:ASN:HB3	4:D:381:HIS:CD2	2.44	0.52
4:D:588:PRO:HB2	4:D:606:ASP:HB3	1.92	0.52
5:E:282:THR:HG23	5:E:322:LEU:CD1	2.25	0.52
9:I:100:ASN:O	9:I:100:ASN:OD1	2.27	0.52
13:M:21:LYS:NZ	13:M:21:LYS:CB	2.73	0.52
1:A:1445:PHE:CD2	1:A:1564:CYS:HB2	2.30	0.52
2:B:508:THR:CG2	2:B:539:GLU:CD	2.82	0.52
2:B:736:LEU:HD23	2:B:736:LEU:C	2.35	0.52
2:B:1071:GLU:HG2	2:B:1079:ASN:HD22	1.75	0.52
2:B:2190:LYS:HE2	20:B:5403:ATP:PB	2.49	0.52
3:C:180:LEU:O	3:C:180:LEU:CD1	2.49	0.52
3:C:215:MET:HB3	3:C:231:ILE:HG22	1.91	0.52
3:C:3012:ILE:CD1	3:C:3121:LEU:HD11	2.40	0.52
4:D:97:LYS:CE	13:M:32:LYS:HE2	2.40	0.52
4:D:331:LEU:N	4:D:331:LEU:CD1	2.73	0.52
4:D:528:TRP:NE1	4:D:535:GLN:CA	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:564:ASP:CB	4:D:583:LYS:HE2	2.39	0.52
5:E:440:TYR:CD1	5:E:501:GLU:HG2	2.44	0.52
6:F:26:PHE:HD1	6:F:49:ALA:CB	2.20	0.52
6:F:91:GLN:HG2	6:F:96:THR:HB	1.90	0.52
8:H:16:MET:CE	8:H:77:ILE:HD12	2.40	0.52
10:J:28:TRP:N	10:J:29:PRO:HD2	2.23	0.52
1:A:600:MET:CE	4:D:458:CYS:CB	2.88	0.52
1:A:704:ARG:CZ	4:D:456:LEU:C	2.73	0.52
1:A:906:LEU:HD13	1:A:998:VAL:CG2	2.33	0.52
1:A:3191:LYS:CB	1:A:3191:LYS:NZ	2.73	0.52
2:B:582:MET:HE1	2:B:590:THR:OG1	2.10	0.52
2:B:725:ILE:HD12	2:B:780:VAL:HB	1.92	0.52
2:B:887:ASN:HB3	2:B:975:ASN:ND2	2.25	0.52
2:B:1432:ASP:O	2:B:1436:LYS:HG3	2.09	0.52
3:C:214:LEU:CD1	3:C:214:LEU:H	2.22	0.52
3:C:881:ILE:O	3:C:881:ILE:HG22	2.09	0.52
3:C:2701:ILE:CG1	3:C:2704:LYS:CD	2.70	0.52
3:C:2703:LYS:H	3:C:2703:LYS:CD	2.23	0.52
3:C:2760:SER:HB2	3:C:2763:GLU:CG	2.39	0.52
4:D:285:PRO:HA	4:D:614:VAL:HG22	1.92	0.52
4:D:620:LEU:HD12	4:D:620:LEU:C	2.31	0.52
5:E:46:ASN:O	12:L:88:PHE:CZ	2.63	0.52
5:E:80:TRP:O	8:H:80:TYR:OH	2.25	0.52
9:I:26:ASN:ND2	9:I:98:PHE:HE2	2.08	0.52
11:K:37:LYS:HG2	11:K:37:LYS:O	2.10	0.52
1:A:730:LEU:HD23	1:A:781:LEU:CD2	2.40	0.52
1:A:857:ARG:HH22	5:E:208:PRO:HD3	1.75	0.52
1:A:1143:ARG:CD	13:M:67:HIS:NE2	2.73	0.52
1:A:1789:VAL:HG21	1:A:2010:VAL:HG22	1.91	0.52
1:A:2490:LEU:HD11	1:A:2611:MET:HG2	1.91	0.52
1:A:2839:LEU:HD13	19:A:4703:ADP:C2	2.26	0.52
2:B:411:ALA:CA	2:B:414:VAL:HG23	2.39	0.52
2:B:524:LEU:HD23	2:B:524:LEU:O	2.10	0.52
2:B:1458:PHE:HZ	2:B:1563:VAL:C	2.07	0.52
2:B:1492:LYS:NZ	2:B:3606:GLN:HB2	2.25	0.52
2:B:1511:VAL:HG23	2:B:1570:VAL:CG1	2.33	0.52
3:C:972:LEU:HD13	3:C:1029:GLU:HG2	1.90	0.52
3:C:1556:PHE:CE1	3:C:1580:ILE:HG23	2.44	0.52
3:C:2698:LEU:HD13	3:C:2772:LYS:HB2	1.92	0.52
4:D:80:PRO:HD2	15:O:103:TRP:HZ2	1.66	0.52
4:D:417:ILE:HD12	4:D:474:VAL:CG2	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:590:LEU:N	4:D:590:LEU:CD1	2.73	0.52
8:H:67:SER:HB2	9:I:78:ILE:HG21	1.89	0.52
11:K:73:ASP:HB2	11:K:76:ASN:HD22	1.73	0.52
12:L:23:PHE:CE2	12:L:25:ASP:HB2	2.45	0.52
14:N:103:ILE:O	14:N:103:ILE:HG22	2.08	0.52
1:A:607:ILE:CD1	1:A:655:PHE:HA	2.38	0.52
1:A:801:ILE:HD13	5:E:152:LEU:HD11	1.92	0.52
1:A:1126:VAL:CG1	1:A:1132:LEU:HA	2.40	0.52
1:A:1443:MET:HG3	1:A:1561:VAL:CG2	2.40	0.52
1:A:1536:LEU:HD23	2:B:3891:GLU:HG3	1.90	0.52
1:A:1631:PHE:CZ	1:A:1687:LEU:HD22	2.45	0.52
1:A:3242:VAL:HA	17:Q:80:SER:CB	2.40	0.52
1:A:3309:TYR:CA	17:Q:32:ILE:O	2.55	0.52
2:B:718:ILE:HD12	2:B:773:VAL:CG1	2.40	0.52
2:B:899:LEU:HD12	2:B:900:PHE:CA	2.38	0.52
2:B:951:MET:HB2	2:B:952:PRO:HD3	1.92	0.52
2:B:952:PRO:HD3	3:C:223:THR:CG2	2.28	0.52
3:C:190:LEU:CD2	3:C:232:TYR:OH	2.58	0.52
3:C:261:ILE:HG13	3:C:360:PRO:HB2	1.87	0.52
3:C:2792:TYR:C	3:C:2796:PRO:CD	2.75	0.52
3:C:2943:LYS:HB3	3:C:2994:VAL:HG11	1.92	0.52
4:D:459:GLY:HA2	4:D:476:THR:HA	1.91	0.52
4:D:585:VAL:HG11	4:D:588:PRO:CG	2.40	0.52
5:E:64:GLU:CD	10:J:18:TYR:CE2	2.88	0.52
5:E:433:TRP:CE2	5:E:451:LYS:HB2	2.45	0.52
9:I:11:ASP:HB2	9:I:14:GLU:HG2	1.92	0.52
9:I:75:TRP:CZ3	9:I:109:LYS:HB2	2.45	0.52
10:J:65:LYS:C	10:J:65:LYS:HD3	2.34	0.52
10:J:100:ILE:O	10:J:100:ILE:HG13	2.09	0.52
12:L:59:LYS:NZ	12:L:59:LYS:CB	2.73	0.52
12:L:74:TRP:CE2	12:L:109:LYS:CD	2.81	0.52
12:L:76:CYS:HB2	12:L:107:LEU:CD1	2.34	0.52
12:L:77:ILE:HD11	13:M:65:ILE:CD1	2.39	0.52
1:A:326:PRO:CA	1:A:376:ASN:CB	2.88	0.52
1:A:709:ILE:HD13	4:D:454:ILE:HG21	1.92	0.52
1:A:1585:GLN:HE21	1:A:1585:GLN:C	2.17	0.52
1:A:3421:SER:CB	1:A:3716:LEU:HD21	2.40	0.52
1:A:3568:LEU:HD23	1:A:3568:LEU:C	2.35	0.52
2:B:619:TYR:CD1	2:B:619:TYR:C	2.88	0.52
2:B:625:LEU:HD23	2:B:625:LEU:O	2.10	0.52
2:B:899:LEU:HD12	2:B:899:LEU:C	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3118:TYR:CZ	2:B:3452:LEU:HD13	2.45	0.52
2:B:3261:ILE:C	2:B:3306:ILE:CG2	2.82	0.52
2:B:4168:VAL:HG21	2:B:4194:MET:HE1	1.92	0.52
2:B:4370:ILE:HD13	2:B:4384:MET:HB3	1.91	0.52
3:C:113:ILE:HD11	3:C:124:PRO:HB3	1.91	0.52
3:C:2849:VAL:O	3:C:2853:GLU:HG3	2.10	0.52
4:D:294:GLN:HB3	4:D:297:LYS:CE	2.40	0.52
5:E:384:LEU:HD23	5:E:417:TRP:CD2	2.40	0.52
6:F:11:LEU:HD21	6:F:23:TYR:CE1	2.29	0.52
9:I:24:ILE:HG23	9:I:98:PHE:O	2.10	0.52
15:O:19:LEU:HD23	15:O:19:LEU:C	2.35	0.52
1:A:552:PHE:CB	1:A:568:ARG:HH12	2.23	0.51
1:A:597:VAL:CB	4:D:502:ALA:HB3	2.39	0.51
1:A:845:THR:O	1:A:849:THR:HG23	2.11	0.51
1:A:879:LEU:HB2	1:A:882:GLU:CD	2.35	0.51
1:A:1417:GLU:C	1:A:1420:THR:HG1	2.18	0.51
1:A:3306:LEU:CD1	1:A:3306:LEU:C	2.69	0.51
2:B:436:PHE:CE2	2:B:463:PHE:CD1	2.97	0.51
2:B:966:LYS:HB3	3:C:345:TRP:N	2.25	0.51
2:B:1230:MET:CE	2:B:1267:TYR:CA	2.87	0.51
2:B:1237:ARG:HD3	2:B:1260:ALA:N	2.22	0.51
3:C:180:LEU:CD2	3:C:187:TRP:CE3	2.93	0.51
3:C:229:ILE:HD11	3:C:301:TRP:HE1	1.73	0.51
3:C:1174:LEU:HD12	3:C:1191:ILE:HG22	1.92	0.51
3:C:2585:PHE:CE1	3:C:2929:LEU:HB2	2.45	0.51
3:C:2708:GLN:HB2	3:C:2758:MET:HE1	1.92	0.51
3:C:2727:ILE:HD12	3:C:2745:LYS:CB	2.09	0.51
3:C:2745:LYS:CE	3:C:2749:VAL:CB	2.88	0.51
3:C:2804:ALA:HB2	3:C:2811:LYS:HG3	1.92	0.51
4:D:410:LYS:HE3	4:D:413:ASN:ND2	2.25	0.51
1:A:935:VAL:HG11	1:A:1017:LEU:HD22	1.92	0.51
1:A:1051:GLN:CD	1:A:1096:TYR:CE2	2.82	0.51
1:A:1514:VAL:HG12	1:A:1548:TRP:CZ3	2.45	0.51
1:A:3046:PHE:CE2	1:A:3104:ILE:CD1	2.89	0.51
1:A:3223:LEU:CD1	1:A:3332:ILE:HG12	2.19	0.51
2:B:508:THR:HG22	2:B:539:GLU:OE2	2.10	0.51
2:B:815:ASP:O	2:B:819:LYS:CG	2.53	0.51
2:B:1139:LEU:HD23	2:B:1198:ILE:HG13	1.92	0.51
2:B:2846:LEU:HD11	2:B:2872:VAL:HG11	1.91	0.51
2:B:3147:GLN:CA	2:B:3426:LEU:HD13	2.41	0.51
2:B:4545:CYS:SG	2:B:4579:ILE:HD13	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:196:CYS:HA	9:I:85:TYR:O	2.09	0.51
4:D:306:PRO:HG3	4:D:357:PRO:HA	1.91	0.51
4:D:588:PRO:HG2	4:D:606:ASP:OD2	2.11	0.51
5:E:391:CYS:SG	5:E:427:LEU:HD13	2.49	0.51
6:F:14:LEU:HD22	6:F:23:TYR:CB	2.30	0.51
6:F:26:PHE:HD1	6:F:49:ALA:HB2	1.67	0.51
16:P:24:ASN:HA	16:P:96:GLY:HA3	1.91	0.51
1:A:37:ASN:O	1:A:41:LEU:N	2.43	0.51
1:A:768:VAL:O	1:A:768:VAL:HG12	2.09	0.51
1:A:1013:VAL:CB	1:A:1076:LEU:HD11	2.40	0.51
1:A:1517:LEU:HD13	1:A:1581:LEU:HB3	1.93	0.51
1:A:3242:VAL:CB	17:Q:80:SER:CB	2.88	0.51
2:B:651:SER:CB	2:B:680:LEU:HD22	2.41	0.51
2:B:3242:MET:HA	2:B:3245:LEU:HG	1.92	0.51
3:C:2012:SER:O	3:C:2014:CYS:N	2.43	0.51
5:E:117:GLU:CB	6:F:17:LEU:CD1	2.80	0.51
5:E:203:LEU:O	5:E:203:LEU:HD23	2.08	0.51
5:E:383:PHE:C	5:E:383:PHE:CD1	2.87	0.51
7:G:125:PHE:CZ	7:G:136:MET:CE	2.94	0.51
15:O:103:TRP:C	15:O:103:TRP:CD1	2.88	0.51
16:P:15:SER:CB	16:P:18:HIS:H	2.23	0.51
1:A:598:ARG:CA	4:D:460:LEU:CD2	2.89	0.51
1:A:686:VAL:CG2	1:A:731:LEU:HD21	2.37	0.51
1:A:688:PHE:CD2	1:A:772:TRP:CH2	2.99	0.51
1:A:704:ARG:HH11	4:D:456:LEU:HA	1.44	0.51
1:A:871:LEU:CD2	1:A:872:ASP:N	2.60	0.51
1:A:1140:GLU:HA	4:D:169:ASN:CG	2.34	0.51
2:B:53:ILE:HA	2:B:88:GLY:O	2.10	0.51
2:B:425:ASP:O	2:B:489:PHE:CE2	2.62	0.51
2:B:648:VAL:HG22	2:B:680:LEU:CD1	2.40	0.51
2:B:1205:PHE:CZ	2:B:1284:LEU:O	2.64	0.51
2:B:2240:VAL:HG21	2:B:2640:GLU:HG3	1.92	0.51
2:B:3457:PHE:O	2:B:3461:ILE:HB	2.11	0.51
3:C:154:PHE:CD1	3:C:207:MET:HE2	2.46	0.51
3:C:214:LEU:CD1	3:C:214:LEU:N	2.74	0.51
3:C:2703:LYS:HD2	3:C:2703:LYS:H	1.74	0.51
5:E:121:TYR:OH	6:F:17:LEU:CD2	2.58	0.51
5:E:286:GLY:HA3	5:E:316:ILE:HG22	1.91	0.51
8:H:29:LYS:NZ	8:H:29:LYS:CB	2.73	0.51
1:A:326:PRO:HA	1:A:376:ASN:CB	2.40	0.51
1:A:805:ARG:HD2	1:A:858:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:819:VAL:C	1:A:840:TYR:CE2	2.89	0.51
1:A:1013:VAL:HG13	1:A:1016:PHE:HE1	1.73	0.51
1:A:1147:ALA:HB1	4:D:173:CYS:CA	2.33	0.51
1:A:1195:GLU:CD	13:M:12:MET:O	2.49	0.51
1:A:1430:ARG:HG3	1:A:1490:PHE:CD2	2.44	0.51
1:A:3318:ASN:HB3	1:A:3321:PHE:HD2	1.74	0.51
2:B:409:SER:HB2	2:B:413:PHE:HB2	1.93	0.51
2:B:559:GLN:HB2	2:B:629:ILE:HD11	1.91	0.51
2:B:580:LEU:HD22	2:B:580:LEU:N	2.25	0.51
2:B:582:MET:HE1	2:B:587:GLY:CA	1.94	0.51
2:B:669:ILE:CG2	2:B:719:VAL:CG1	2.54	0.51
2:B:902:ILE:O	2:B:1077:ARG:O	2.28	0.51
2:B:966:LYS:HB3	3:C:345:TRP:H	1.76	0.51
2:B:1728:GLN:HE21	2:B:1868:ILE:HD12	1.75	0.51
2:B:2621:ILE:HG22	2:B:2667:LEU:HD13	1.93	0.51
2:B:3133:ILE:O	2:B:3133:ILE:HD13	2.11	0.51
3:C:10:LEU:HD11	3:C:67:CYS:N	2.26	0.51
3:C:2701:ILE:CG1	3:C:2704:LYS:CG	2.88	0.51
3:C:2722:VAL:HG12	3:C:2813:ILE:HD13	1.93	0.51
4:D:297:LYS:NZ	4:D:328:LEU:HD13	2.25	0.51
5:E:20:PHE:CE1	14:N:89:GLN:CA	2.80	0.51
5:E:285:ASP:CG	5:E:285:ASP:O	2.53	0.51
7:G:32:GLN:O	7:G:33:LYS:C	2.52	0.51
7:G:34:SER:O	7:G:35:LEU:C	2.52	0.51
10:J:110:THR:HG21	11:K:92:LYS:HG3	1.93	0.51
1:A:747:ILE:CD1	1:A:889:TYR:CD1	2.93	0.51
1:A:1165:ASN:ND2	11:K:15:ASN:OD1	2.39	0.51
1:A:2697:ARG:CG	19:A:4701:ADP:H4'	2.41	0.51
2:B:1002:GLN:C	2:B:1004:SER:H	2.18	0.51
2:B:1102:LEU:HB3	2:B:1106:PHE:CD2	2.45	0.51
2:B:1117:ILE:HD13	2:B:1186:PRO:HB3	1.91	0.51
2:B:1395:LEU:CA	2:B:1430:ILE:HD11	2.22	0.51
2:B:3243:LYS:HE3	2:B:3285:ASN:O	2.09	0.51
2:B:4165:SER:HA	2:B:4194:MET:HE3	1.91	0.51
3:C:53:PRO:CD	3:C:81:PRO:HB3	2.40	0.51
3:C:192:PRO:HB3	3:C:237:ASP:C	2.36	0.51
3:C:252:ASN:O	3:C:271:GLY:HA2	2.10	0.51
3:C:2581:LEU:HG	3:C:2936:SER:CB	2.41	0.51
4:D:551:ALA:HB3	4:D:557:VAL:HB	1.93	0.51
4:D:593:LEU:HD12	4:D:593:LEU:O	2.10	0.51
5:E:50:LEU:HD22	12:L:23:PHE:HB2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:470:HIS:CE1	5:E:475:LEU:HD11	2.44	0.51
7:G:36:LYS:O	7:G:37:ARG:C	2.52	0.51
13:M:21:LYS:HB3	13:M:21:LYS:HZ3	1.75	0.51
15:O:52:ASP:N	15:O:53:PRO:HD3	2.23	0.51
1:A:600:MET:CE	4:D:458:CYS:HG	2.12	0.51
1:A:746:PRO:HA	1:A:749:LYS:HG3	1.91	0.51
1:A:773:THR:HG22	1:A:773:THR:O	2.10	0.51
1:A:1009:THR:OG1	1:A:1074:MET:SD	2.69	0.51
1:A:1524:VAL:HG22	1:A:1611:LEU:HD22	1.92	0.51
2:B:439:LEU:HD12	2:B:503:LEU:HD11	1.93	0.51
2:B:671:VAL:HG12	2:B:673:PHE:H	1.75	0.51
2:B:953:GLY:CA	3:C:282:ARG:CZ	2.89	0.51
2:B:1102:LEU:H	2:B:1163:ARG:NH2	1.96	0.51
2:B:3231:VAL:HG22	2:B:3342:ASN:C	2.36	0.51
3:C:7:TRP:CH2	3:C:352:LEU:HD12	2.45	0.51
3:C:1270:PHE:CG	3:C:1336:ALA:HB2	2.46	0.51
3:C:2690:LEU:CB	3:C:2826:VAL:HG11	2.41	0.51
3:C:2726:THR:OG1	3:C:2729:LEU:CD1	2.59	0.51
3:C:2820:ILE:HG23	3:C:2824:TYR:HD2	1.75	0.51
4:D:70:MET:HE2	5:E:13:GLU:CD	2.35	0.51
4:D:537:ILE:HD11	4:D:651:LYS:HD2	1.92	0.51
6:F:62:VAL:HG11	7:G:106:LEU:CD2	2.39	0.51
10:J:110:THR:HG22	10:J:110:THR:O	2.10	0.51
11:K:70:VAL:HG11	11:K:90:TYR:CZ	2.46	0.51
1:A:600:MET:HE1	4:D:458:CYS:HB2	1.92	0.51
1:A:935:VAL:CG1	1:A:1017:LEU:CD2	2.89	0.51
1:A:2101:ILE:HG22	1:A:4498:LEU:HB2	1.92	0.51
1:A:2564:MET:N	1:A:2565:PRO:HD2	2.26	0.51
2:B:1562:GLU:O	2:B:1565:ALA:HB3	2.11	0.51
2:B:3119:LYS:NZ	2:B:3119:LYS:CB	2.73	0.51
2:B:3183:ALA:O	2:B:3187:GLU:HG3	2.11	0.51
2:B:3261:ILE:O	2:B:3306:ILE:HG23	2.08	0.51
3:C:379:LYS:HA	3:C:418:CYS:O	2.11	0.51
3:C:2701:ILE:HG12	3:C:2704:LYS:HD2	1.86	0.51
3:C:2738:ILE:HD11	3:C:2740:ILE:O	1.99	0.51
4:D:101:LEU:HD23	4:D:101:LEU:C	2.35	0.51
4:D:172:GLU:HB3	13:M:64:HIS:HB3	0.55	0.51
4:D:290:SER:HB3	4:D:610:GLY:HA2	1.92	0.51
4:D:503:VAL:HG11	4:D:506:VAL:HG23	1.93	0.51
5:E:302:GLU:OE1	5:E:302:GLU:HA	2.11	0.51
1:A:797:ASN:HD22	5:E:452:VAL:C	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:948:LEU:N	1:A:948:LEU:CD2	2.73	0.51
1:A:1066:VAL:HB	1:A:1069:TYR:OH	2.11	0.51
1:A:1143:ARG:CD	4:D:169:ASN:CG	2.72	0.51
1:A:1511:TRP:CB	1:A:1574:LEU:CD1	2.89	0.51
1:A:3303:ILE:C	17:Q:78:SER:CB	2.70	0.51
1:A:3311:ASN:CB	17:Q:30:LYS:O	2.59	0.51
1:A:3448:SER:HB3	1:A:3477:MET:HE1	1.93	0.51
2:B:633:ILE:O	2:B:637:GLU:HG3	2.11	0.51
2:B:938:PHE:HE2	3:C:343:ASN:ND2	2.08	0.51
2:B:1784:ARG:HG2	2:B:1788:ILE:HD12	1.92	0.51
2:B:3237:PRO:HG2	2:B:3238:HIS:HD2	1.76	0.51
2:B:3446:SER:CB	2:B:3489:THR:HG22	2.29	0.51
2:B:4440:MET:HB2	2:B:4443:ARG:HG2	1.92	0.51
3:C:2830:VAL:HG13	3:C:2834:ARG:HG3	1.92	0.51
4:D:134:LYS:HB2	4:D:134:LYS:HZ3	1.76	0.51
4:D:172:GLU:CA	13:M:64:HIS:HA	2.22	0.51
4:D:281:GLY:HA3	4:D:580:ALA:HB2	1.92	0.51
4:D:292:GLU:HA	4:D:295:ARG:HG3	1.92	0.51
5:E:46:ASN:O	12:L:88:PHE:CE2	2.63	0.51
6:F:66:ASP:HB3	7:G:102:SER:HB2	1.92	0.51
7:G:119:PRO:CG	9:I:12:ILE:HB	2.41	0.51
10:J:75:TYR:CB	11:K:92:LYS:HE2	2.36	0.51
12:L:69:ILE:HG21	12:L:92:VAL:HG22	1.92	0.51
1:A:24:LYS:HA	1:A:96:LEU:O	2.11	0.51
1:A:598:ARG:HH12	4:D:504:TYR:HB3	0.49	0.51
1:A:1643:LYS:HE3	1:A:1675:LYS:NZ	2.25	0.51
1:A:3255:GLU:CG	17:Q:61:SER:CB	2.83	0.51
2:B:966:LYS:HG2	3:C:341:TRP:NE1	2.26	0.51
3:C:336:ILE:HG22	3:C:349:LEU:HD11	1.92	0.51
3:C:2637:GLU:HA	3:C:2640:ALA:HB3	1.92	0.51
3:C:2726:THR:N	3:C:2729:LEU:CD1	2.72	0.51
5:E:261:HIS:HB3	5:E:289:MET:CE	2.41	0.51
5:E:385:SER:HG	5:E:394:TRP:HZ3	0.72	0.51
10:J:28:TRP:CE3	10:J:28:TRP:HA	2.46	0.51
12:L:32:LYS:HE2	12:L:36:ARG:HH22	1.75	0.51
1:A:331:THR:C	1:A:380:ARG:CB	2.84	0.50
1:A:616:LYS:O	1:A:620:PRO:HD3	2.05	0.50
1:A:700:LYS:CD	4:D:455:GLY:HA3	2.41	0.50
1:A:732:TYR:HD2	4:D:391:ARG:CZ	2.24	0.50
1:A:819:VAL:N	1:A:840:TYR:CE2	2.80	0.50
1:A:830:LEU:N	1:A:830:LEU:CD1	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:937:LEU:HD12	1:A:1081:ILE:HD11	1.94	0.50
1:A:1513:LYS:CE	1:A:1578:ASN:CG	2.53	0.50
1:A:2963:ILE:HD13	1:A:2987:PHE:HB2	1.93	0.50
1:A:3308:PRO:HG2	17:Q:58:SER:N	2.26	0.50
2:B:915:PRO:O	2:B:925:THR:HG22	2.11	0.50
2:B:1083:MET:SD	2:B:1083:MET:C	2.94	0.50
2:B:1531:ILE:CD1	2:B:1618:LEU:CD2	2.79	0.50
2:B:3231:VAL:HG22	2:B:3342:ASN:CB	2.41	0.50
2:B:4148:PRO:HB3	2:B:4551:GLU:O	2.11	0.50
2:B:4287:LEU:C	2:B:4287:LEU:HD13	2.37	0.50
3:C:499:THR:CB	3:C:698:GLU:CB	2.89	0.50
3:C:2357:LEU:HB3	3:C:2512:ILE:HG22	1.92	0.50
3:C:2637:GLU:O	3:C:2640:ALA:CB	2.43	0.50
3:C:2746:PRO:CD	3:C:2747:LYS:N	2.73	0.50
4:D:399:VAL:HA	4:D:418:SER:HA	1.93	0.50
5:E:44:ASN:HB3	5:E:45:PRO:HD3	1.93	0.50
10:J:44:THR:HG22	10:J:64:LEU:CD2	2.41	0.50
10:J:48:LEU:HD13	10:J:100:ILE:CD1	2.33	0.50
11:K:77:PHE:HZ	11:K:88:LEU:HD11	1.63	0.50
13:M:73:ILE:HG22	13:M:84:LEU:HD11	1.93	0.50
15:O:22:LEU:HD12	15:O:23:ASN:CB	2.41	0.50
1:A:384:LYS:CB	1:A:408:VAL:CB	2.89	0.50
1:A:818:LEU:CB	1:A:844:LYS:HG3	2.41	0.50
1:A:1450:TRP:CH2	1:A:1519:THR:CG2	2.95	0.50
1:A:3187:ILE:HG22	1:A:3191:LYS:HD3	1.93	0.50
2:B:1498:TYR:O	2:B:1502:GLU:HG2	2.10	0.50
2:B:3139:GLY:HA3	2:B:3695:LEU:HD21	1.93	0.50
3:C:132:GLU:OE2	3:C:133:PRO:CD	2.53	0.50
3:C:225:GLN:H	3:C:225:GLN:CD	2.15	0.50
3:C:2592:LYS:HD3	3:C:2924:MET:HG3	1.93	0.50
3:C:2903:LEU:HD23	3:C:2903:LEU:O	2.10	0.50
7:G:79:VAL:HG21	7:G:146:ILE:HD12	1.92	0.50
8:H:76:TYR:CE1	8:H:87:LEU:HD13	2.42	0.50
1:A:1151:MET:CA	4:D:176:ILE:HD11	2.36	0.50
1:A:1162:LEU:HA	11:K:15:ASN:HB2	1.92	0.50
1:A:3249:ILE:HD12	17:Q:106:PHE:CE2	2.45	0.50
2:B:736:LEU:HD23	2:B:855:SER:OG	2.11	0.50
3:C:2600:LYS:HE2	3:C:2918:GLU:HB2	1.94	0.50
4:D:286:ILE:HG22	4:D:287:TRP:CE3	2.46	0.50
4:D:294:GLN:HB3	4:D:316:LEU:HD23	1.93	0.50
5:E:24:GLU:CG	14:N:91:THR:HG22	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:ASN:ND2	12:L:88:PHE:HE1	2.09	0.50
1:A:1048:TYR:CD1	1:A:1100:LEU:HD12	2.39	0.50
1:A:1638:THR:CG2	1:A:1655:GLN:HG2	2.42	0.50
1:A:2746:VAL:HG12	1:A:3026:TRP:CE2	2.46	0.50
1:A:3212:VAL:HG13	1:A:3335:TRP:CE2	2.45	0.50
1:A:3309:TYR:CD2	17:Q:32:ILE:CB	2.95	0.50
2:B:3118:TYR:CZ	2:B:3452:LEU:HB2	2.46	0.50
2:B:3429:GLU:OE1	2:B:3429:GLU:HA	2.12	0.50
3:C:2007:LEU:HD11	3:C:2128:MET:HE3	1.94	0.50
3:C:2584:LEU:HD21	3:C:2935:VAL:CG1	2.41	0.50
3:C:2630:GLU:HB3	3:C:2634:LYS:HE3	1.94	0.50
3:C:4081:ALA:N	3:C:4094:ILE:O	2.44	0.50
4:D:248:MET:CE	7:G:147:VAL:HG21	2.42	0.50
5:E:66:VAL:HG11	8:H:72:GLU:CG	2.42	0.50
16:P:24:ASN:CA	16:P:96:GLY:CA	2.89	0.50
1:A:686:VAL:HG23	1:A:731:LEU:CD2	2.27	0.50
1:A:818:LEU:C	1:A:840:TYR:CE2	2.89	0.50
2:B:60:ASN:CA	2:B:81:ILE:CA	2.58	0.50
2:B:440:GLU:HB2	2:B:460:PHE:CG	2.46	0.50
2:B:444:LEU:HD21	2:B:526:ASN:CB	2.41	0.50
2:B:957:GLN:CD	3:C:252:ASN:HD22	2.18	0.50
2:B:1185:ASP:HB2	2:B:1186:PRO:HD2	1.94	0.50
2:B:1511:VAL:CA	2:B:1570:VAL:HG13	2.34	0.50
2:B:1529:TYR:HA	2:B:1549:PHE:CE2	2.45	0.50
2:B:2189:GLY:HA2	20:B:5403:ATP:H5'2	1.93	0.50
2:B:3234:LEU:HD11	2:B:3336:LEU:HD21	1.94	0.50
4:D:215:ASP:O	4:D:216:HIS:CG	2.65	0.50
4:D:386:TYR:CE1	5:E:142:VAL:HG11	2.47	0.50
4:D:528:TRP:CG	4:D:535:GLN:HA	2.44	0.50
5:E:82:GLY:CA	8:H:12:LYS:HZ3	2.00	0.50
1:A:902:THR:HG21	1:A:989:ILE:HD11	1.94	0.50
1:A:1613:ILE:HD11	1:A:1626:ASP:HB3	1.93	0.50
1:A:2298:LEU:HD21	20:A:4702:ATP:N7	2.26	0.50
1:A:3250:PRO:HD3	17:Q:106:PHE:HE2	1.74	0.50
2:B:673:PHE:CD1	2:B:677:LEU:HD13	2.46	0.50
2:B:861:ASP:OD2	3:C:171:ARG:HD2	2.10	0.50
2:B:1461:TYR:HD2	2:B:1464:THR:O	1.95	0.50
2:B:1488:LYS:CB	2:B:1501:VAL:HB	2.42	0.50
2:B:3150:VAL:HG11	2:B:3423:VAL:HG23	1.85	0.50
2:B:3303:GLU:OE1	2:B:3306:ILE:HD11	2.10	0.50
2:B:4103:LEU:HD12	2:B:4256:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:76:GLY:O	3:C:77:ASP:OD1	2.30	0.50
4:D:68:GLU:HG2	5:E:12:LYS:C	2.36	0.50
4:D:301:SER:HB3	4:D:352:CYS:HA	1.94	0.50
4:D:526:ARG:HB3	4:D:535:GLN:HG3	1.93	0.50
5:E:237:ASN:HD22	5:E:237:ASN:N	2.10	0.50
9:I:96:PHE:HE1	9:I:98:PHE:HD2	1.58	0.50
1:A:505:THR:O	1:A:509:LYS:CA	2.59	0.50
1:A:800:ASP:C	5:E:148:LYS:HA	2.31	0.50
1:A:857:ARG:NH1	5:E:205:PRO:O	2.45	0.50
1:A:935:VAL:HG13	1:A:944:LEU:CD2	2.41	0.50
1:A:1445:PHE:HE2	1:A:1564:CYS:CB	1.69	0.50
1:A:1596:ARG:HH21	1:A:1610:LEU:CD2	2.23	0.50
1:A:3223:LEU:CD1	1:A:3332:ILE:CG1	2.47	0.50
1:A:3249:ILE:HG23	17:Q:106:PHE:HE2	1.76	0.50
1:A:3255:GLU:HA	1:A:3271:GLU:HB2	1.93	0.50
2:B:555:LEU:CD2	2:B:625:LEU:CG	2.72	0.50
2:B:603:ILE:HD11	2:B:626:TYR:CZ	2.44	0.50
2:B:883:ASN:ND2	2:B:971:MET:SD	2.85	0.50
2:B:1599:LEU:HD22	2:B:1617:LEU:HD21	1.94	0.50
2:B:1627:ALA:HB3	2:B:1628:PRO:HD3	1.94	0.50
2:B:2333:PRO:HB3	20:B:5403:ATP:C6	2.44	0.50
2:B:3157:LEU:HA	2:B:3160:LYS:HE2	1.94	0.50
3:C:164:HIS:CD2	3:C:201:GLY:HA3	2.47	0.50
3:C:2726:THR:OG1	3:C:2729:LEU:HD12	2.10	0.50
3:C:3266:ILE:HD13	3:C:3388:ARG:NH1	2.27	0.50
4:D:107:VAL:HG11	15:O:96:ARG:NH2	2.26	0.50
5:E:207:SER:HB2	5:E:208:PRO:HD2	1.93	0.50
5:E:334:LEU:HD12	5:E:344:THR:HG22	1.94	0.50
5:E:513:TYR:CZ	5:E:517:LYS:HD2	2.47	0.50
6:F:32:PRO:CB	6:F:45:ALA:HB1	2.42	0.50
9:I:74:THR:HG23	9:I:74:THR:O	2.11	0.50
1:A:737:TYR:CD1	1:A:759:LEU:HD21	2.43	0.50
1:A:801:ILE:N	5:E:149:THR:CB	2.73	0.50
1:A:1171:ILE:HG13	1:A:1171:ILE:O	2.12	0.50
1:A:1522:GLU:N	1:A:1523:PRO:CD	2.74	0.50
1:A:3293:PHE:CZ	1:A:3335:TRP:CH2	2.88	0.50
1:A:3306:LEU:HA	1:A:3309:TYR:CD2	2.46	0.50
1:A:3345:LYS:HA	1:A:3345:LYS:CE	2.40	0.50
1:A:3572:MET:HE1	1:A:3594:VAL:HG22	1.93	0.50
2:B:436:PHE:HB2	2:B:463:PHE:CD2	2.46	0.50
2:B:523:LEU:C	2:B:523:LEU:CD2	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:965:ILE:N	2:B:965:ILE:HD12	2.26	0.50
2:B:3255:THR:HG1	2:B:3337:CYS:HG	1.40	0.50
2:B:3327:ALA:HA	2:B:3334:SER:HB2	1.92	0.50
3:C:36:PHE:CZ	3:C:97:VAL:HG11	2.47	0.50
3:C:2715:PRO:HG2	3:C:2719:VAL:CB	2.40	0.50
3:C:2726:THR:N	3:C:2729:LEU:HD11	2.26	0.50
3:C:2743:ASN:HD21	3:C:2786:ASN:HA	1.77	0.50
4:D:205:PHE:CE1	9:I:12:ILE:HG22	2.47	0.50
4:D:386:TYR:CB	4:D:433:LEU:HD11	2.42	0.50
4:D:461:CYS:SG	4:D:462:PHE:N	2.84	0.50
4:D:553:TYR:CE1	4:D:595:PHE:CE2	3.00	0.50
4:D:576:LEU:C	4:D:576:LEU:CD1	2.85	0.50
6:F:54:ASP:OD2	7:G:109:LYS:CE	2.60	0.50
8:H:67:SER:HB3	9:I:78:ILE:CG2	2.40	0.50
1:A:755:HIS:CE1	1:A:869:TYR:HB3	2.47	0.50
1:A:793:GLN:N	5:E:433:TRP:HH2	2.07	0.50
1:A:933:VAL:HG12	1:A:944:LEU:HB3	1.94	0.50
1:A:1127:LYS:C	1:A:1208:TYR:OH	2.55	0.50
1:A:1433:LEU:CD2	1:A:1478:LEU:CD2	2.89	0.50
1:A:1458:MET:HE1	1:A:1548:TRP:HD1	1.69	0.50
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD11	2.31	0.50
2:B:1511:VAL:CB	2:B:1570:VAL:HG11	2.40	0.50
4:D:184:GLY:CA	11:K:69:TYR:CE1	2.93	0.50
4:D:466:LYS:HZ1	4:D:511:PHE:H	1.59	0.50
4:D:532:TYR:CZ	4:D:652:MET:CE	2.95	0.50
5:E:384:LEU:H	5:E:417:TRP:HE1	1.58	0.50
6:F:27:ASN:HB2	6:F:33:LEU:HD21	1.92	0.50
7:G:119:PRO:CG	9:I:12:ILE:CB	2.85	0.50
8:H:50:ARG:HH22	9:I:88:THR:CG2	2.25	0.50
1:A:854:GLU:OE2	5:E:202:LEU:C	2.55	0.49
1:A:1140:GLU:HG2	4:D:169:ASN:OD1	2.11	0.49
1:A:1143:ARG:NE	13:M:67:HIS:CE1	2.67	0.49
1:A:1680:ILE:HA	1:A:1683:TRP:CD1	2.47	0.49
1:A:3194:ALA:CB	1:A:3356:VAL:HG21	2.30	0.49
2:B:658:GLN:HG2	2:B:673:PHE:HA	1.93	0.49
2:B:793:SER:HB3	2:B:836:ILE:HD11	1.94	0.49
2:B:793:SER:OG	2:B:832:ASN:HB3	2.12	0.49
2:B:1467:PHE:CE2	2:B:1560:MET:HE1	2.47	0.49
3:C:4017:LEU:HD21	3:C:4022:LEU:HD11	1.93	0.49
3:C:4084:ILE:HD11	3:C:4106:PRO:HG3	1.94	0.49
3:C:4138:PHE:CE1	3:C:4141:THR:HA	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:113:LYS:CD	6:F:10:GLN:O	2.60	0.49
7:G:16:ILE:O	7:G:17:ILE:C	2.52	0.49
12:L:49:LEU:HD22	12:L:49:LEU:H	1.77	0.49
18:R:105:THR:C	18:R:107:SER:N	2.70	0.49
1:A:156:VAL:CA	2:B:168:ILE:CA	2.79	0.49
1:A:326:PRO:CB	1:A:373:MET:HA	2.42	0.49
1:A:729:GLU:CG	4:D:391:ARG:HH12	2.25	0.49
1:A:755:HIS:HE1	1:A:869:TYR:CG	2.20	0.49
1:A:1044:THR:HG1	1:A:1047:ASN:HB2	1.74	0.49
1:A:1219:PHE:HZ	1:A:1266:ASN:CB	2.26	0.49
1:A:1273:PHE:C	1:A:1275:LEU:H	2.20	0.49
1:A:3232:ILE:CG2	1:A:3316:TRP:CE3	2.86	0.49
1:A:3304:GLU:HB2	17:Q:77:LEU:CA	2.42	0.49
1:A:3446:ASN:CA	1:A:3488:LEU:HD21	2.39	0.49
2:B:349:ASN:CB	2:B:416:LEU:HD11	2.41	0.49
2:B:799:VAL:C	2:B:800:LYS:HA	2.33	0.49
3:C:2636:LYS:O	3:C:2640:ALA:CB	2.60	0.49
3:C:2793:LEU:HA	3:C:2796:PRO:CG	2.23	0.49
4:D:240:SER:OG	7:G:140:ASP:OD2	2.29	0.49
4:D:398:PRO:CD	4:D:398:PRO:O	2.60	0.49
4:D:410:LYS:HG3	4:D:413:ASN:HD21	1.76	0.49
4:D:584:ILE:HD11	4:D:604:VAL:HG11	1.93	0.49
5:E:76:LYS:O	8:H:64:ASN:OD1	2.30	0.49
5:E:253:MET:CB	5:E:296:PHE:HE2	2.25	0.49
15:O:31:PRO:CD	15:O:109:ASN:HD22	2.25	0.49
1:A:857:ARG:HB3	5:E:152:LEU:O	2.12	0.49
1:A:1100:LEU:C	1:A:1100:LEU:CD2	2.85	0.49
1:A:1151:MET:CE	4:D:176:ILE:CB	2.89	0.49
1:A:1443:MET:CG	1:A:1561:VAL:HG21	2.21	0.49
1:A:1597:LYS:HZ2	1:A:1962:ILE:HD12	1.76	0.49
1:A:1637:VAL:CG1	1:A:1653:ILE:HG21	2.41	0.49
2:B:500:GLU:CB	2:B:532:THR:HG21	2.42	0.49
2:B:888:PRO:HG2	2:B:978:TRP:CE3	2.47	0.49
2:B:939:ASN:N	3:C:283:THR:CG2	2.68	0.49
2:B:966:LYS:CD	3:C:345:TRP:N	2.62	0.49
2:B:1080:LEU:N	2:B:1080:LEU:CD1	2.73	0.49
2:B:1731:LEU:HD11	2:B:1793:ILE:HG13	1.93	0.49
2:B:3077:SER:OG	2:B:3486:ILE:HD11	2.12	0.49
2:B:3082:MET:SD	2:B:3115:ILE:HD12	2.51	0.49
2:B:3827:LEU:HD11	2:B:4289:LEU:HD13	1.94	0.49
3:C:106:LEU:N	3:C:106:LEU:CD1	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:ILE:HD11	3:C:185:PHE:CZ	2.47	0.49
3:C:2709:ALA:CB	3:C:2758:MET:SD	3.00	0.49
3:C:2730:LEU:CD2	3:C:2738:ILE:HD13	2.37	0.49
3:C:3161:PHE:HB3	3:C:3203:ILE:HD11	1.95	0.49
4:D:92:TYR:CB	13:M:29:LYS:HA	2.43	0.49
4:D:109:PHE:HD1	15:O:114:THR:HG1	1.53	0.49
4:D:353:LEU:C	4:D:353:LEU:CD2	2.85	0.49
4:D:553:TYR:HE1	4:D:595:PHE:CE2	2.29	0.49
5:E:116:VAL:HG11	6:F:99:ALA:CB	2.41	0.49
5:E:271:LEU:N	5:E:271:LEU:CD1	2.76	0.49
6:F:26:PHE:CZ	6:F:48:ILE:HG23	2.47	0.49
10:J:28:TRP:HA	10:J:28:TRP:HE3	1.77	0.49
12:L:16:LEU:HD11	12:L:35:ILE:CG2	2.42	0.49
13:M:10:THR:CG2	13:M:73:ILE:HG13	2.42	0.49
1:A:573:LEU:CD2	1:A:633:GLU:HG2	2.42	0.49
1:A:666:SER:HB3	1:A:695:LEU:CD1	2.43	0.49
1:A:2418:ILE:HG23	1:A:2428:VAL:HG22	1.93	0.49
1:A:3018:LEU:O	1:A:3022:CYS:SG	2.71	0.49
1:A:3564:LYS:CG	1:A:3615:MET:HE1	2.43	0.49
2:B:298:LEU:O	2:B:302:LEU:N	2.33	0.49
2:B:722:TYR:CE2	2:B:748:VAL:HG11	2.47	0.49
2:B:1604:LYS:HA	2:B:1945:GLN:NE2	2.26	0.49
2:B:2085:GLN:CG	2:B:2176:VAL:HG21	2.43	0.49
2:B:3131:ARG:C	2:B:3131:ARG:CD	2.85	0.49
3:C:346:LEU:HD22	3:C:346:LEU:C	2.37	0.49
3:C:2698:LEU:O	3:C:2700:SER:N	2.41	0.49
3:C:2711:SER:HB2	3:C:2755:LEU:CD2	2.39	0.49
4:D:360:ALA:C	5:E:133:PHE:HZ	2.21	0.49
7:G:79:VAL:HG21	7:G:146:ILE:CD1	2.42	0.49
7:G:103:ILE:N	7:G:104:PRO:HD2	2.27	0.49
14:N:75:GLN:CG	15:O:93:GLN:HG3	2.39	0.49
15:O:31:PRO:HD3	15:O:109:ASN:ND2	2.26	0.49
1:A:670:LEU:CD2	1:A:670:LEU:C	2.86	0.49
1:A:717:LEU:CD2	4:D:454:ILE:C	2.81	0.49
1:A:899:LEU:CD2	1:A:989:ILE:HG12	2.42	0.49
1:A:1016:PHE:CD2	1:A:1069:TYR:HB2	2.46	0.49
1:A:1140:GLU:N	4:D:169:ASN:ND2	2.57	0.49
1:A:1638:THR:OG1	1:A:1655:GLN:HG3	2.11	0.49
1:A:1787:ILE:HD13	1:A:1847:ILE:HD11	1.93	0.49
1:A:3255:GLU:HA	1:A:3271:GLU:CB	2.42	0.49
1:A:3303:ILE:CD1	1:A:3340:TYR:CD2	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:844:LEU:C	2:B:844:LEU:CD2	2.86	0.49
2:B:3150:VAL:HG22	2:B:3707:LEU:HD23	1.93	0.49
2:B:3445:LYS:CG	2:B:3487:PRO:CB	2.91	0.49
2:B:3582:ILE:HG23	2:B:3582:ILE:O	2.12	0.49
3:C:272:SER:HG	3:C:322:GLU:HG3	1.78	0.49
3:C:2365:GLY:O	3:C:2367:GLN:N	2.46	0.49
5:E:60:SER:HB3	10:J:87:GLN:CB	2.42	0.49
5:E:402:ILE:HD11	5:E:513:TYR:HB2	1.95	0.49
8:H:43:THR:OG1	9:I:86:ASP:OD2	2.29	0.49
12:L:55:LEU:HA	13:M:64:HIS:CE1	2.48	0.49
14:N:75:GLN:HB2	15:O:94:GLY:O	2.12	0.49
1:A:674:LEU:HD23	1:A:770:LEU:CB	2.43	0.49
1:A:801:ILE:HG13	5:E:149:THR:CB	2.28	0.49
1:A:841:ILE:HD12	1:A:961:ALA:HB1	1.93	0.49
1:A:1390:LYS:C	1:A:1392:ASN:H	2.21	0.49
1:A:3251:ILE:C	17:Q:62:ILE:HA	2.37	0.49
1:A:3268:PHE:C	17:Q:35:ILE:CA	2.86	0.49
1:A:3307:GLU:O	17:Q:30:LYS:CB	2.60	0.49
2:B:422:ARG:NH1	2:B:422:ARG:CB	2.73	0.49
2:B:444:LEU:O	5:E:515:LYS:CG	2.53	0.49
2:B:1521:VAL:HG22	2:B:1585:SER:CB	2.43	0.49
2:B:3311:ASN:O	2:B:3315:GLN:HG3	2.13	0.49
2:B:3833:MET:HE1	2:B:3945:PHE:HZ	1.77	0.49
3:C:231:ILE:HG12	3:C:240:VAL:O	2.13	0.49
3:C:1101:PHE:HB3	3:C:1107:MET:HE2	1.95	0.49
4:D:111:MET:SD	15:O:90:ILE:CG2	3.00	0.49
4:D:298:ASN:HB3	4:D:591:THR:HG21	1.94	0.49
5:E:459:CYS:SG	5:E:460:ILE:N	2.86	0.49
7:G:58:SER:O	7:G:62:ASP:HB2	2.10	0.49
10:J:62:GLU:HG3	11:K:69:TYR:CZ	2.47	0.49
11:K:53:LYS:HG2	11:K:54:TYR:CE1	2.47	0.49
16:P:39:TRP:C	16:P:40:SER:CB	2.85	0.49
18:R:98:MET:C	18:R:100:GLY:N	2.70	0.49
1:A:1016:PHE:HD2	1:A:1069:TYR:CD1	2.30	0.49
1:A:1031:ILE:CA	1:A:1092:TRP:CH2	2.96	0.49
1:A:1059:GLU:OE2	1:A:1093:LYS:HD3	2.12	0.49
1:A:1190:LEU:C	1:A:1190:LEU:CD2	2.85	0.49
1:A:1191:ILE:CG2	13:M:10:THR:O	2.60	0.49
1:A:1390:LYS:C	1:A:1392:ASN:N	2.70	0.49
1:A:3304:GLU:CB	17:Q:77:LEU:HA	2.43	0.49
2:B:658:GLN:NE2	2:B:672:ASN:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:691:ARG:HD3	2:B:691:ARG:HA	1.53	0.49
2:B:920:SER:HB3	2:B:925:THR:HG21	1.94	0.49
2:B:1243:LYS:CA	2:B:1251:SER:N	2.76	0.49
2:B:1458:PHE:HZ	2:B:1563:VAL:CB	2.26	0.49
3:C:106:LEU:HD12	3:C:106:LEU:H	1.75	0.49
3:C:276:PHE:CZ	3:C:282:ARG:HA	2.47	0.49
3:C:2795:MET:N	3:C:2796:PRO:CD	2.75	0.49
4:D:96:PHE:CZ	10:J:89:VAL:HG21	2.48	0.49
4:D:196:CYS:SG	9:I:86:ASP:HA	2.52	0.49
4:D:372:VAL:HG11	4:D:414:PHE:CE2	2.47	0.49
4:D:386:TYR:CD1	4:D:433:LEU:CD1	2.92	0.49
5:E:361:LEU:C	5:E:361:LEU:CD1	2.85	0.49
9:I:85:TYR:OH	9:I:106:LEU:HD13	2.12	0.49
10:J:38:GLU:HB2	15:O:29:PHE:CZ	2.47	0.49
10:J:68:MET:HB3	10:J:76:TRP:CD1	2.48	0.49
13:M:20:VAL:HG22	13:M:45:PHE:HZ	1.76	0.49
13:M:32:LYS:HD2	13:M:32:LYS:N	2.28	0.49
1:A:614:PHE:CD1	1:A:644:LEU:HD23	2.45	0.49
1:A:695:LEU:HD23	1:A:695:LEU:O	2.13	0.49
1:A:1522:GLU:HA	1:A:1541:PHE:CZ	2.44	0.49
1:A:2840:VAL:CG1	1:A:3041:THR:HG21	2.42	0.49
2:B:552:LYS:CG	2:B:622:VAL:HG22	2.43	0.49
2:B:655:LYS:NZ	2:B:701:ILE:O	2.44	0.49
2:B:859:TYR:C	2:B:859:TYR:CD1	2.90	0.49
2:B:864:ASN:HA	2:B:947:LEU:HD11	1.93	0.49
2:B:902:ILE:CG2	2:B:1076:LEU:CD1	2.90	0.49
2:B:956:LEU:O	2:B:959:ILE:HG13	2.13	0.49
2:B:1125:LYS:HG3	2:B:1200:ILE:HG21	1.93	0.49
2:B:1458:PHE:HZ	2:B:1563:VAL:CG1	2.25	0.49
2:B:3121:LEU:C	2:B:3121:LEU:CD1	2.86	0.49
3:C:2055:ILE:HG22	3:C:2059:LEU:HD11	1.94	0.49
3:C:2774:VAL:CG1	3:C:2780:VAL:HG22	2.42	0.49
5:E:57:SER:O	10:J:90:HIS:CE1	2.65	0.49
6:F:11:LEU:CD2	6:F:23:TYR:HE1	1.86	0.49
12:L:69:ILE:HD12	12:L:92:VAL:HG13	1.95	0.49
12:L:77:ILE:CD1	13:M:65:ILE:HD11	2.39	0.49
14:N:72:ILE:HG12	15:O:97:ILE:CB	2.38	0.49
18:R:105:THR:C	18:R:107:SER:H	2.17	0.49
1:A:1062:ILE:HG21	1:A:1086:SER:OG	2.13	0.49
1:A:1273:PHE:HB3	1:A:1275:LEU:HG	1.95	0.49
1:A:1562:ILE:N	1:A:1563:PRO:CD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3257:VAL:CG1	1:A:3266:VAL:HG22	2.43	0.49
2:B:17:ARG:CA	2:B:21:ALA:HB3	2.42	0.49
2:B:410:ASN:O	2:B:414:VAL:HG22	2.10	0.49
2:B:429:LEU:HD21	2:B:493:ARG:HD2	1.95	0.49
2:B:598:ARG:CA	5:E:367:LEU:HD13	2.42	0.49
2:B:969:LEU:C	2:B:969:LEU:CD2	2.86	0.49
2:B:3272:PRO:HG2	2:B:3275:LYS:CG	2.43	0.49
2:B:4104:LYS:HA	2:B:4256:LEU:HD13	1.95	0.49
3:C:60:LEU:CD2	3:C:69:TRP:CE3	2.86	0.49
3:C:2581:LEU:C	3:C:2581:LEU:CD2	2.85	0.49
3:C:3010:LEU:HA	3:C:3102:LEU:HB2	1.94	0.49
4:D:517:ILE:HG12	4:D:550:TRP:HZ2	1.63	0.49
5:E:160:CYS:SG	5:E:161:LYS:N	2.85	0.49
5:E:221:ILE:HG13	5:E:221:ILE:O	2.12	0.49
7:G:31:TYR:O	7:G:32:GLN:C	2.52	0.49
7:G:77:LEU:C	7:G:77:LEU:CD2	2.85	0.49
8:H:61:VAL:N	9:I:84:ALA:O	2.28	0.49
9:I:19:MET:CB	9:I:22:LYS:HE3	2.43	0.49
10:J:79:PHE:CZ	11:K:88:LEU:HD23	2.48	0.49
14:N:22:LYS:HE2	14:N:28:LYS:CB	2.43	0.49
15:O:41:LEU:HD23	15:O:67:LEU:HD12	1.94	0.49
15:O:46:LEU:HD23	15:O:115:TYR:CD2	2.48	0.49
16:P:39:TRP:C	16:P:40:SER:C	2.81	0.49
1:A:688:PHE:CB	1:A:727:TYR:CE2	2.95	0.49
1:A:859:VAL:HG11	1:A:887:LYS:HG2	1.95	0.49
1:A:1610:LEU:HD12	1:A:1610:LEU:O	2.13	0.49
1:A:3270:LYS:HZ3	17:Q:58:SER:C	2.21	0.49
1:A:3301:GLU:HA	17:Q:77:LEU:O	2.13	0.49
2:B:14:ILE:O	2:B:22:LEU:HA	2.13	0.49
2:B:835:GLN:O	2:B:839:LEU:HG	2.13	0.49
2:B:1316:ALA:O	16:P:60:PHE:O	2.29	0.49
2:B:1498:TYR:C	2:B:1500:ARG:H	2.21	0.49
3:C:165:GLY:HA3	3:C:174:PHE:HE2	1.72	0.49
3:C:884:ARG:HA	3:C:889:ILE:HD11	1.95	0.49
3:C:2093:GLN:HB2	3:C:2096:ILE:HG22	1.95	0.49
3:C:2892:ARG:NH2	3:C:3185:ASP:HB2	2.27	0.49
4:D:70:MET:HE1	5:E:13:GLU:HB3	1.92	0.49
4:D:195:ILE:HD12	9:I:94:LEU:HD23	1.95	0.49
4:D:508:TRP:HZ3	4:D:514:ARG:HA	1.78	0.49
5:E:100:GLU:HA	5:E:105:PHE:CD2	2.47	0.49
5:E:112:LEU:CD2	5:E:112:LEU:C	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:203:LEU:CD2	5:E:203:LEU:C	2.85	0.49
5:E:398:LEU:HD21	5:E:516:GLU:HB3	1.95	0.49
12:L:49:LEU:H	12:L:49:LEU:CD2	2.24	0.49
14:N:89:GLN:HE22	14:N:116:ALA:N	2.03	0.49
1:A:891:PHE:CZ	1:A:971:ASN:OD1	2.66	0.48
1:A:1535:PRO:CG	2:B:3861:ASN:ND2	2.76	0.48
1:A:3300:GLU:HB3	17:Q:76:ILE:HA	1.92	0.48
2:B:927:ARG:HH12	2:B:976:LEU:HB2	1.78	0.48
2:B:963:PHE:HZ	3:C:39:LEU:CG	2.06	0.48
2:B:2267:ILE:HD11	2:B:2308:LEU:HG	1.94	0.48
2:B:2333:PRO:CA	20:B:5403:ATP:C2	2.91	0.48
3:C:341:TRP:HB2	3:C:345:TRP:CD1	2.48	0.48
3:C:354:VAL:CG2	3:C:357:ILE:CG1	2.85	0.48
3:C:1993:THR:HG22	3:C:2023:ILE:HD11	1.94	0.48
4:D:429:MET:HE3	4:D:434:GLU:CD	2.38	0.48
5:E:64:GLU:OE2	10:J:18:TYR:CZ	2.65	0.48
12:L:55:LEU:C	12:L:55:LEU:CD2	2.85	0.48
1:A:683:LYS:NZ	1:A:741:ASN:HD22	2.11	0.48
1:A:747:ILE:HD13	1:A:889:TYR:CE1	2.44	0.48
1:A:1126:VAL:CG1	1:A:1131:SER:OG	2.61	0.48
1:A:1825:ILE:HD12	1:A:1889:LEU:HA	1.95	0.48
1:A:1926:PHE:CB	1:A:1974:ILE:HG23	2.41	0.48
2:B:762:ILE:O	2:B:766:ILE:CG1	2.60	0.48
2:B:917:ILE:HG22	2:B:917:ILE:O	2.13	0.48
2:B:1139:LEU:CD2	2:B:1198:ILE:HD11	2.40	0.48
2:B:1490:GLN:HB3	2:B:3612:ASP:HB3	1.95	0.48
2:B:1606:PHE:CE1	2:B:1687:LEU:HA	2.47	0.48
2:B:3140:LEU:C	2:B:3140:LEU:CD2	2.86	0.48
2:B:3242:MET:HA	2:B:3245:LEU:HD12	1.95	0.48
19:B:5405:ADP:O1A	19:B:5405:ADP:H4'	2.13	0.48
3:C:700:LEU:CB	3:C:717:CYS:CB	2.92	0.48
3:C:1503:ILE:HD12	3:C:1523:PHE:CZ	2.48	0.48
3:C:2711:SER:CA	3:C:2751:TRP:CZ2	2.92	0.48
4:D:66:LEU:HD21	4:D:73:LYS:HG2	1.95	0.48
4:D:114:ASP:OD1	5:E:43:ARG:HG3	2.12	0.48
4:D:414:PHE:HD2	4:D:426:TRP:CG	2.21	0.48
4:D:421:GLY:CA	4:D:441:LEU:CD1	2.89	0.48
4:D:517:ILE:HD13	4:D:527:ILE:HA	1.95	0.48
5:E:64:GLU:OE2	10:J:18:TYR:OH	2.30	0.48
5:E:289:MET:SD	5:E:300:PRO:HG3	2.53	0.48
6:F:48:ILE:CG1	6:F:98:LEU:CD2	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:17:ILE:HG23	14:N:110:VAL:HG11	1.96	0.48
1:A:700:LYS:NZ	4:D:456:LEU:HB2	2.29	0.48
1:A:753:LEU:C	1:A:753:LEU:CD2	2.85	0.48
1:A:850:SER:HG	5:E:203:LEU:HD21	1.67	0.48
1:A:902:THR:HG21	1:A:989:ILE:CD1	2.42	0.48
1:A:1041:ASN:HA	1:A:1047:ASN:ND2	2.23	0.48
1:A:1091:GLU:OE1	1:A:1091:GLU:HA	2.14	0.48
1:A:1418:ASP:HA	1:A:1421:GLU:HB2	1.95	0.48
1:A:1535:PRO:HB3	2:B:3861:ASN:ND2	2.27	0.48
1:A:3251:ILE:HD12	17:Q:64:LYS:CB	2.31	0.48
2:B:361:LYS:HA	2:B:477:ILE:CG2	2.42	0.48
2:B:659:THR:HA	2:B:757:TRP:CE2	2.48	0.48
2:B:762:ILE:HG23	2:B:766:ILE:CG1	2.38	0.48
2:B:801:ILE:HG13	2:B:878:ALA:CA	2.42	0.48
2:B:963:PHE:CB	3:C:41:ASN:HA	2.40	0.48
2:B:1492:LYS:NZ	2:B:3606:GLN:CG	2.76	0.48
3:C:109:ASN:HB3	3:C:145:PRO:HG3	1.95	0.48
3:C:276:PHE:CE2	3:C:282:ARG:HA	2.47	0.48
3:C:2357:LEU:C	3:C:2357:LEU:HD13	2.38	0.48
3:C:2531:LEU:HB3	3:C:2536:LEU:HD11	1.95	0.48
3:C:2727:ILE:O	3:C:2730:LEU:HD12	1.98	0.48
4:D:162:LEU:C	4:D:162:LEU:CD2	2.85	0.48
4:D:180:ILE:HB	10:J:75:TYR:HE1	1.75	0.48
4:D:395:HIS:CD2	4:D:399:VAL:HG12	2.33	0.48
4:D:512:HIS:HD2	4:D:513:PRO:CD	2.19	0.48
6:F:47:HIS:O	6:F:51:LEU:HD13	2.13	0.48
8:H:12:LYS:HE2	8:H:80:TYR:OH	2.13	0.48
12:L:70:GLY:O	12:L:109:LYS:CE	2.60	0.48
1:A:709:ILE:HD12	4:D:454:ILE:CG2	2.42	0.48
1:A:850:SER:O	5:E:204:ASN:HA	2.13	0.48
1:A:1183:LEU:HD23	1:A:1183:LEU:O	2.14	0.48
1:A:1216:ILE:HD11	1:A:1275:LEU:CD1	2.44	0.48
1:A:1638:THR:CG2	1:A:1655:GLN:NE2	2.30	0.48
1:A:3245:LYS:HE3	17:Q:122:LEU:O	2.01	0.48
1:A:3260:LYS:NZ	1:A:3267:LEU:CD2	2.77	0.48
1:A:3271:GLU:CD	1:A:3272:SER:H	2.21	0.48
2:B:581:ASN:HD22	5:E:184:MET:CE	2.22	0.48
2:B:953:GLY:N	3:C:282:ARG:NH1	2.61	0.48
2:B:1111:LYS:HA	2:B:1114:LEU:HD12	1.94	0.48
2:B:1205:PHE:HZ	2:B:1284:LEU:O	1.96	0.48
3:C:29:VAL:CG2	3:C:92:ALA:C	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:114:LEU:HB2	3:C:121:TRP:CD2	2.48	0.48
3:C:1567:LEU:HD22	3:C:1619:ASP:HB3	1.94	0.48
3:C:2721:GLU:CD	3:C:2814:CYS:SG	2.96	0.48
4:D:403:LYS:HB2	4:D:462:PHE:CZ	2.47	0.48
4:D:529:ASP:HB3	4:D:532:TYR:HD2	1.79	0.48
5:E:308:GLU:OE1	5:E:343:LEU:HD11	2.14	0.48
5:E:325:ASN:HB2	5:E:375:ARG:HD2	1.95	0.48
9:I:26:ASN:HB3	9:I:98:PHE:CE2	2.42	0.48
10:J:86:CYS:SG	11:K:61:VAL:CB	2.98	0.48
11:K:21:MET:HG2	11:K:54:TYR:CE2	2.47	0.48
11:K:34:GLU:OE2	11:K:34:GLU:HA	2.12	0.48
1:A:868:LEU:CD1	1:A:868:LEU:H	2.25	0.48
1:A:952:GLN:NE2	1:A:1010:LYS:NZ	2.61	0.48
1:A:1146:GLN:HE21	13:M:9:ALA:HA	1.79	0.48
1:A:1162:LEU:C	1:A:1162:LEU:CD2	2.86	0.48
1:A:1534:MET:HB3	1:A:1537:GLN:CG	2.43	0.48
1:A:2515:MET:HA	1:A:2553:LYS:O	2.13	0.48
2:B:444:LEU:C	5:E:515:LYS:CB	2.87	0.48
2:B:642:LEU:C	2:B:642:LEU:CD1	2.86	0.48
2:B:775:GLN:O	2:B:779:THR:HG23	2.13	0.48
2:B:947:LEU:HD22	2:B:947:LEU:N	2.29	0.48
2:B:957:GLN:HE21	2:B:957:GLN:HA	1.78	0.48
2:B:3297:PHE:CE2	2:B:3302:ILE:CD1	2.96	0.48
2:B:3770:MET:HA	2:B:4089:LEU:HD13	1.95	0.48
3:C:35:MET:HE1	3:C:325:SER:OG	2.13	0.48
3:C:261:ILE:HG23	3:C:385:ASP:CB	2.43	0.48
3:C:352:LEU:H	3:C:352:LEU:CD1	2.27	0.48
3:C:2096:ILE:HD11	3:C:2141:TYR:CD2	2.48	0.48
3:C:2585:PHE:HE1	3:C:2929:LEU:N	2.11	0.48
3:C:2639:ASP:CB	3:C:2643:GLU:OE2	2.56	0.48
4:D:410:LYS:HE3	4:D:413:ASN:HD21	1.79	0.48
4:D:483:LYS:NZ	4:D:530:SER:HB3	2.28	0.48
4:D:525:VAL:HG23	4:D:545:VAL:HG21	1.94	0.48
9:I:49:ASN:ND2	9:I:59:ALA:HA	2.28	0.48
12:L:73:GLU:HB2	13:M:66:ILE:HD12	1.89	0.48
15:O:46:LEU:HD23	15:O:115:TYR:CE2	2.48	0.48
1:A:15:THR:HA	2:B:19:SER:CA	2.30	0.48
1:A:21:LEU:O	1:A:25:ASP:C	2.55	0.48
1:A:121:GLY:N	2:B:105:ALA:O	2.46	0.48
1:A:751:LEU:CD2	1:A:751:LEU:C	2.86	0.48
1:A:892:TRP:CE2	7:G:13:ASP:CB	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:909:MET:O	1:A:913:VAL:HG23	2.13	0.48
1:A:1012:LYS:CG	1:A:1071:ILE:HD12	2.41	0.48
1:A:1212:LEU:C	1:A:1212:LEU:CD2	2.85	0.48
1:A:1449:ILE:HG13	1:A:1452:LYS:NZ	2.28	0.48
1:A:3308:PRO:CD	17:Q:56:SER:CA	2.87	0.48
2:B:655:LYS:HZ1	2:B:701:ILE:HG22	1.69	0.48
2:B:798:ASN:HB2	2:B:874:ALA:CA	2.43	0.48
2:B:966:LYS:HB2	3:C:345:TRP:HZ3	1.65	0.48
2:B:1117:ILE:HG12	2:B:1190:ILE:HD11	0.74	0.48
2:B:1427:VAL:O	2:B:1431:VAL:HG23	2.14	0.48
2:B:1498:TYR:C	2:B:1500:ARG:N	2.69	0.48
2:B:2862:LEU:HD13	2:B:2864:LEU:HG	1.94	0.48
2:B:3147:GLN:NE2	2:B:3427:ALA:HB2	2.29	0.48
2:B:3265:GLN:HG3	2:B:3283:PHE:HE2	1.78	0.48
2:B:3457:PHE:CE1	2:B:3498:LEU:HD11	2.49	0.48
2:B:4353:ILE:HG22	2:B:4425:LEU:HD13	1.96	0.48
3:C:1864:ILE:HD11	3:C:1910:ILE:CG2	2.43	0.48
3:C:2779:GLN:C	3:C:2780:VAL:CG2	2.86	0.48
4:D:299:VAL:HG11	4:D:302:ILE:HD11	1.94	0.48
5:E:376:SER:HB3	5:E:417:TRP:CE3	2.49	0.48
5:E:386:VAL:HG21	5:E:415:GLY:HA3	1.95	0.48
7:G:125:PHE:HZ	7:G:136:MET:CE	2.24	0.48
9:I:24:ILE:HD13	9:I:98:PHE:CE1	2.43	0.48
9:I:85:TYR:CD1	9:I:85:TYR:C	2.90	0.48
10:J:37:LEU:CD2	10:J:37:LEU:C	2.85	0.48
12:L:9:GLY:O	12:L:13:GLU:CD	2.56	0.48
12:L:50:GLU:OE2	13:M:61:PHE:HA	2.14	0.48
12:L:74:TRP:HA	12:L:109:LYS:HG2	1.96	0.48
12:L:84:CYS:HB3	13:M:56:ILE:HG12	1.87	0.48
17:Q:108:GLU:HA	17:Q:129:ILE:H	1.78	0.48
1:A:590:GLN:C	1:A:609:TRP:CH2	2.92	0.48
1:A:1126:VAL:HG13	1:A:1132:LEU:N	2.23	0.48
1:A:1790:HIS:NE2	1:A:1794:ILE:HD11	2.28	0.48
2:B:86:LYS:HA	2:B:104:VAL:O	2.13	0.48
2:B:1230:MET:CE	2:B:1266:VAL:C	2.86	0.48
2:B:2333:PRO:HB3	20:B:5403:ATP:HN62	1.79	0.48
2:B:2839:ILE:N	2:B:2840:PRO:HD2	2.28	0.48
2:B:3140:LEU:HD23	2:B:3140:LEU:O	2.12	0.48
2:B:3269:LEU:C	2:B:3269:LEU:CD2	2.86	0.48
2:B:3984:PHE:CE2	2:B:4076:LEU:HD11	2.49	0.48
3:C:2984:TRP:HB3	3:C:2989:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3012:ILE:HD12	3:C:3121:LEU:HD11	1.96	0.48
4:D:543:MET:SD	4:D:563:MET:HB2	2.51	0.48
4:D:556:THR:HB	4:D:571:LEU:CG	2.44	0.48
6:F:61:LYS:CD	8:H:33:ASP:O	2.62	0.48
6:F:80:ARG:N	7:G:125:PHE:O	2.42	0.48
8:H:46:LYS:NZ	9:I:86:ASP:C	2.61	0.48
15:O:22:LEU:HD12	15:O:22:LEU:C	2.39	0.48
1:A:576:TYR:CE1	1:A:620:PRO:CA	2.96	0.48
1:A:695:LEU:C	1:A:695:LEU:CD2	2.85	0.48
1:A:971:ASN:HB3	1:A:983:ALA:CB	2.43	0.48
1:A:1631:PHE:CD1	1:A:1631:PHE:N	2.80	0.48
1:A:3249:ILE:HG12	1:A:3273:TYR:CB	2.43	0.48
1:A:3255:GLU:CB	1:A:3271:GLU:HB2	2.44	0.48
1:A:3896:LEU:N	1:A:3897:PRO:HD2	2.29	0.48
2:B:35:THR:HA	2:B:36:GLN:HA	1.69	0.48
2:B:429:LEU:HD22	2:B:492:PHE:CE2	2.48	0.48
2:B:726:LYS:C	2:B:726:LYS:CD	2.85	0.48
2:B:1468:ALA:C	2:B:1469:SER:HG	2.01	0.48
3:C:10:LEU:HD11	3:C:67:CYS:HB3	1.95	0.48
3:C:114:LEU:C	3:C:114:LEU:CD1	2.85	0.48
3:C:196:PRO:CB	3:C:239:TRP:CH2	2.96	0.48
3:C:997:LEU:HB2	3:C:1051:GLN:HE22	1.79	0.48
3:C:2709:ALA:HB2	3:C:2758:MET:HG2	1.95	0.48
4:D:68:GLU:CG	5:E:12:LYS:C	2.87	0.48
5:E:279:CYS:SG	5:E:291:TRP:HB2	2.53	0.48
6:F:62:VAL:HG11	7:G:106:LEU:HD21	1.95	0.48
8:H:83:GLN:HA	8:H:83:GLN:OE1	2.13	0.48
14:N:8:TYR:HE1	14:N:13:VAL:HG21	1.77	0.48
14:N:72:ILE:CG1	15:O:97:ILE:CG2	2.71	0.48
1:A:666:SER:HB3	1:A:695:LEU:HD12	1.95	0.48
1:A:853:VAL:O	5:E:206:ASN:HA	2.12	0.48
1:A:880:PRO:O	1:A:883:THR:OG1	2.32	0.48
1:A:935:VAL:CG2	1:A:1017:LEU:CD2	2.89	0.48
1:A:1028:LYS:HG2	1:A:1029:GLU:N	2.28	0.48
1:A:1393:TYR:O	1:A:1397:ASP:N	2.46	0.48
1:A:1623:ILE:HG22	1:A:1623:ILE:O	2.12	0.48
1:A:2498:ALA:HB2	19:A:4701:ADP:H8	1.79	0.48
1:A:3220:ILE:CG2	1:A:3286:PHE:CD2	2.97	0.48
1:A:4477:MET:HG3	1:A:4524:VAL:HG23	1.96	0.48
2:B:3446:SER:HB2	2:B:3489:THR:HG23	0.54	0.48
3:C:334:ARG:HG3	3:C:336:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2794:ASN:O	3:C:2799:THR:HG22	2.13	0.48
5:E:74:SER:CB	9:I:56:ILE:HB	2.44	0.48
8:H:16:MET:HE1	8:H:24:VAL:HG21	1.96	0.48
8:H:36:ASN:HD22	8:H:36:ASN:N	2.10	0.48
1:A:688:PHE:CG	1:A:727:TYR:CD2	3.01	0.48
1:A:800:ASP:O	1:A:804:ASN:HB2	2.14	0.48
1:A:1458:MET:SD	1:A:1549:MET:HA	2.54	0.48
1:A:1915:VAL:HA	1:A:1970:VAL:HG21	1.96	0.48
1:A:2697:ARG:HG2	19:A:4701:ADP:O3'	2.13	0.48
1:A:3268:PHE:O	17:Q:35:ILE:CA	2.54	0.48
2:B:459:ILE:HG23	2:B:499:LEU:HD12	1.96	0.48
2:B:584:PRO:CD	5:E:186:PHE:HD2	2.27	0.48
2:B:938:PHE:CD2	2:B:956:LEU:CD1	2.96	0.48
2:B:1057:LEU:CD1	2:B:1098:TYR:CD2	2.97	0.48
2:B:3300:GLU:CD	2:B:3354:LYS:HZ1	2.17	0.48
4:D:100:GLU:OE2	4:D:100:GLU:HA	2.13	0.48
4:D:117:TRP:CE3	4:D:118:LYS:O	2.67	0.48
5:E:84:VAL:CG1	5:E:91:GLU:HB3	2.44	0.48
5:E:112:LEU:HD23	5:E:116:VAL:CG2	2.42	0.48
5:E:183:ILE:HG12	5:E:193:MET:HE1	1.96	0.48
8:H:67:SER:HB3	9:I:78:ILE:HG22	1.84	0.48
10:J:40:ALA:HB1	10:J:107:MET:HE1	1.96	0.48
13:M:23:ILE:HG22	13:M:41:ILE:HD13	1.96	0.48
1:A:607:ILE:HD13	1:A:655:PHE:HB2	1.95	0.47
1:A:853:VAL:C	5:E:206:ASN:N	2.71	0.47
1:A:854:GLU:OE1	5:E:202:LEU:O	2.32	0.47
1:A:1013:VAL:HG22	1:A:1076:LEU:HD21	1.96	0.47
1:A:1052:LEU:HD12	1:A:1162:LEU:HD21	1.96	0.47
1:A:1548:TRP:CD1	1:A:1548:TRP:C	2.92	0.47
1:A:3220:ILE:HG21	1:A:3286:PHE:CD2	2.49	0.47
1:A:3306:LEU:HA	17:Q:58:SER:CB	2.44	0.47
2:B:426:ILE:HG21	2:B:478:MET:SD	2.54	0.47
2:B:533:ARG:O	2:B:537:ALA:HB2	2.13	0.47
2:B:899:LEU:CD1	2:B:900:PHE:H	2.21	0.47
2:B:1611:PHE:CE1	2:B:1925:PHE:HZ	2.32	0.47
2:B:3089:ILE:HG22	2:B:3106:THR:HG21	1.96	0.47
3:C:24:HIS:CD2	3:C:325:SER:HB3	2.49	0.47
3:C:154:PHE:HD1	3:C:207:MET:HE2	1.79	0.47
3:C:2798:PHE:HD1	3:C:2803:MET:SD	2.23	0.47
4:D:92:TYR:CE1	13:M:29:LYS:HD3	2.49	0.47
4:D:361:ALA:HB2	5:E:133:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:24:GLU:OE2	14:N:91:THR:HB	2.14	0.47
5:E:95:PHE:HE1	6:F:31:ILE:HD13	1.79	0.47
6:F:80:ARG:NH2	6:F:103:CYS:SG	2.85	0.47
8:H:24:VAL:HG22	8:H:49:PHE:HZ	1.79	0.47
16:P:24:ASN:HA	16:P:96:GLY:N	2.29	0.47
1:A:597:VAL:CG2	4:D:502:ALA:HB3	2.40	0.47
1:A:617:ILE:HG22	1:A:644:LEU:HD11	1.96	0.47
1:A:1118:LEU:CD2	1:A:1118:LEU:H	2.25	0.47
1:A:1417:GLU:O	1:A:1421:GLU:CA	2.62	0.47
1:A:3311:ASN:ND2	17:Q:31:LEU:CA	2.68	0.47
2:B:527:PHE:CD2	2:B:530:LEU:HD23	2.48	0.47
2:B:599:ILE:HG22	2:B:626:TYR:CE1	2.49	0.47
2:B:682:LYS:HE2	5:E:186:PHE:CZ	2.48	0.47
2:B:966:LYS:CA	3:C:344:ASN:CA	2.81	0.47
2:B:1529:TYR:CZ	2:B:1533:LEU:HD12	2.48	0.47
2:B:2128:ASP:HB3	2:B:4466:LEU:HB2	1.96	0.47
2:B:3150:VAL:HG22	2:B:3707:LEU:HD21	1.96	0.47
3:C:2740:ILE:HB	3:C:2744:LYS:C	2.35	0.47
3:C:2802:GLN:O	3:C:2805:SER:OG	2.24	0.47
3:C:2804:ALA:HB1	3:C:2811:LYS:HD2	1.96	0.47
4:D:395:HIS:CD2	4:D:399:VAL:HG13	2.45	0.47
5:E:112:LEU:HD21	6:F:97:MET:CE	2.43	0.47
7:G:77:LEU:HB2	7:G:90:PHE:CE2	2.48	0.47
13:M:20:VAL:HG22	13:M:45:PHE:CZ	2.49	0.47
16:P:23:TYR:C	16:P:96:GLY:HA2	2.38	0.47
1:A:1045:LEU:C	1:A:1045:LEU:CD1	2.86	0.47
1:A:1441:ASN:HA	1:A:1562:ILE:CD1	2.44	0.47
1:A:1599:PHE:HE2	1:A:1630:LEU:HD22	1.80	0.47
1:A:1637:VAL:HG11	1:A:1653:ILE:HD13	1.96	0.47
1:A:2727:LEU:HD22	1:A:2772:GLU:HG2	1.96	0.47
1:A:3297:SER:HB3	1:A:3299:ASN:OD1	2.14	0.47
2:B:17:ARG:HA	2:B:21:ALA:HB3	1.96	0.47
2:B:521:PHE:HE2	2:B:609:LEU:HD21	1.78	0.47
2:B:638:ASP:O	2:B:642:LEU:CB	2.62	0.47
2:B:749:LYS:HB2	2:B:750:PRO:HD3	1.95	0.47
2:B:2267:ILE:CD1	2:B:2311:ALA:HB2	2.44	0.47
2:B:2619:SER:N	2:B:2620:PRO:HD2	2.29	0.47
2:B:3173:ILE:CG2	2:B:3177:LYS:HE3	2.44	0.47
3:C:124:PRO:HB3	3:C:185:PHE:CD1	2.48	0.47
3:C:261:ILE:CB	3:C:360:PRO:HB3	2.40	0.47
3:C:1890:LEU:HB3	3:C:1901:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2589:LEU:CA	3:C:2928:VAL:HG11	2.44	0.47
3:C:2725:ALA:O	3:C:2728:TYR:CD2	2.67	0.47
3:C:2725:ALA:CA	3:C:2728:TYR:HE2	2.17	0.47
4:D:294:GLN:CG	4:D:297:LYS:HZ1	2.28	0.47
4:D:355:PHE:HE1	4:D:377:ILE:HD11	1.79	0.47
4:D:537:ILE:HD13	4:D:647:TYR:OH	2.14	0.47
5:E:46:ASN:CA	12:L:88:PHE:CE1	2.96	0.47
5:E:131:GLU:HB2	5:E:134:GLU:HB2	1.95	0.47
5:E:198:TYR:HB3	5:E:208:PRO:CB	2.43	0.47
5:E:280:VAL:HG11	5:E:333:PHE:HE2	1.77	0.47
9:I:75:TRP:CE3	9:I:109:LYS:HB2	2.49	0.47
9:I:81:GLU:OE2	9:I:102:ASN:CB	2.51	0.47
10:J:86:CYS:HB2	11:K:61:VAL:CG1	2.28	0.47
12:L:84:CYS:HB3	13:M:56:ILE:CA	2.40	0.47
16:P:27:ASN:CA	16:P:95:GLU:HA	2.44	0.47
1:A:790:LYS:HA	5:E:433:TRP:HZ2	1.80	0.47
1:A:894:PHE:CD1	1:A:972:TRP:HH2	2.33	0.47
1:A:1277:ASN:HB3	1:A:1280:TYR:CB	2.44	0.47
1:A:1638:THR:HG21	1:A:1655:GLN:CD	2.30	0.47
1:A:2120:ILE:HB	1:A:2121:PRO:HD3	1.95	0.47
1:A:2298:LEU:CD2	20:A:4702:ATP:N7	2.77	0.47
1:A:2696:MET:CE	19:A:4701:ADP:C8	2.97	0.47
1:A:3269:LEU:HA	17:Q:37:PRO:HA	1.22	0.47
1:A:3269:LEU:HA	17:Q:34:GLN:O	2.14	0.47
1:A:3311:ASN:ND2	17:Q:30:LYS:C	2.65	0.47
1:A:3322:ALA:CB	1:A:3333:LEU:HD12	2.44	0.47
2:B:436:PHE:CB	2:B:463:PHE:CD2	2.97	0.47
2:B:579:PHE:CE2	5:E:369:PRO:HG2	2.48	0.47
2:B:984:ASN:O	2:B:987:ARG:CG	2.63	0.47
2:B:1116:PHE:N	2:B:1119:LYS:HZ2	2.10	0.47
2:B:1455:VAL:HG12	2:B:1456:PHE:H	1.71	0.47
2:B:1708:ALA:HA	2:B:1711:TRP:CD1	2.49	0.47
2:B:4076:LEU:C	2:B:4076:LEU:HD12	2.39	0.47
2:B:4216:MET:HA	2:B:4220:LEU:HD12	1.94	0.47
3:C:172:LEU:HD12	3:C:173:ALA:O	2.14	0.47
3:C:1221:THR:O	3:C:1225:THR:HG23	2.14	0.47
3:C:2698:LEU:HD21	3:C:2768:LEU:C	2.39	0.47
4:D:75:LEU:CD1	15:O:102:LEU:CD1	2.88	0.47
4:D:116:ILE:HG13	5:E:43:ARG:HD3	1.96	0.47
4:D:204:ILE:HG21	9:I:101:GLY:O	2.14	0.47
4:D:239:THR:HA	4:D:242:LYS:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:129:LEU:CD1	6:F:80:ARG:NE	2.77	0.47
5:E:198:TYR:HB2	5:E:200:TRP:CZ3	2.49	0.47
8:H:60:ILE:CG2	9:I:85:TYR:HB3	2.44	0.47
11:K:46:ILE:CD1	11:K:87:ILE:HD13	2.44	0.47
13:M:3:HIS:CE1	13:M:78:ASN:HB3	2.50	0.47
1:A:948:LEU:CB	1:A:1010:LYS:HD3	2.43	0.47
1:A:1216:ILE:HD11	1:A:1275:LEU:HD13	1.96	0.47
1:A:1458:MET:HE1	1:A:1548:TRP:NE1	2.29	0.47
1:A:2117:GLU:HG2	1:A:2141:ILE:HD11	1.95	0.47
1:A:3128:THR:HG22	1:A:3422:LEU:CB	2.38	0.47
2:B:225:PRO:HA	2:B:298:LEU:CB	2.44	0.47
2:B:659:THR:CB	2:B:757:TRP:NE1	2.66	0.47
2:B:675:PRO:O	5:E:187:GLN:NE2	2.47	0.47
2:B:724:HIS:ND1	2:B:728:CYS:SG	2.87	0.47
2:B:886:ILE:HD11	2:B:976:LEU:HD21	1.96	0.47
2:B:2685:LYS:HA	2:B:2711:VAL:HG11	1.96	0.47
2:B:3092:ALA:HB1	2:B:3472:LEU:HD11	1.96	0.47
2:B:3833:MET:HE2	2:B:3840:VAL:HG21	1.97	0.47
3:C:89:ALA:CB	3:C:95:MET:HG2	2.44	0.47
3:C:149:HIS:HA	3:C:162:GLY:HA3	1.95	0.47
3:C:246:HIS:HE1	3:C:292:PHE:CD2	2.32	0.47
3:C:2204:ILE:HB	3:C:3956:ALA:HB1	1.97	0.47
3:C:2600:LYS:CE	3:C:2918:GLU:HB2	2.45	0.47
4:D:297:LYS:HZ2	4:D:328:LEU:CB	2.08	0.47
10:J:19:LYS:HB3	10:J:28:TRP:HA	1.97	0.47
11:K:36:TYR:CD2	11:K:41:LYS:HB3	2.45	0.47
1:A:598:ARG:CD	4:D:504:TYR:HD1	2.27	0.47
1:A:755:HIS:HE1	1:A:869:TYR:CB	2.27	0.47
1:A:935:VAL:HA	1:A:944:LEU:HD23	1.97	0.47
1:A:1012:LYS:CE	1:A:1071:ILE:CB	2.42	0.47
1:A:1157:GLN:CB	1:A:1180:ARG:HH21	2.17	0.47
1:A:1273:PHE:C	1:A:1275:LEU:N	2.72	0.47
1:A:1830:TRP:CZ2	1:A:1832:SER:HB2	2.49	0.47
1:A:2033:LEU:CD2	1:A:4498:LEU:HD23	2.44	0.47
1:A:2363:LEU:HD23	1:A:2390:SER:HA	1.97	0.47
1:A:2489:ALA:O	1:A:2608:ILE:HA	2.13	0.47
1:A:3125:GLN:NE2	1:A:3125:GLN:C	2.73	0.47
2:B:613:ILE:O	2:B:616:ARG:HG3	2.14	0.47
2:B:714:ALA:HB1	2:B:766:ILE:CD1	2.44	0.47
2:B:1532:PHE:CE1	2:B:1539:ARG:HB2	2.49	0.47
2:B:2516:HIS:HE2	2:B:2676:MET:HA	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4315:LYS:HA	2:B:4367:LEU:HD11	1.96	0.47
3:C:2737:ALA:O	3:C:2746:PRO:HG2	2.15	0.47
3:C:2899:LEU:HD23	3:C:2899:LEU:O	2.14	0.47
3:C:4129:TYR:O	3:C:4164:LEU:HA	2.14	0.47
4:D:294:GLN:NE2	4:D:328:LEU:HD13	2.29	0.47
4:D:372:VAL:CG1	4:D:414:PHE:CE2	2.97	0.47
5:E:306:ILE:CG2	5:E:343:LEU:HD12	2.43	0.47
5:E:395:VAL:HG12	5:E:396:GLU:N	2.30	0.47
14:N:116:ALA:HB1	15:O:131:PHE:CE1	2.48	0.47
1:A:157:ALA:O	1:A:160:GLU:N	2.45	0.47
1:A:603:GLU:CG	1:A:662:LYS:HE3	2.44	0.47
1:A:801:ILE:HA	5:E:149:THR:O	2.14	0.47
1:A:1599:PHE:CE2	1:A:1601:ARG:HB2	2.50	0.47
1:A:1606:SER:HB2	1:A:1608:PRO:HD2	1.96	0.47
1:A:2336:PHE:HZ	1:A:2411:LEU:CD2	2.27	0.47
1:A:3043:ILE:HD11	1:A:3059:LEU:HD23	1.95	0.47
1:A:3233:ILE:HD12	1:A:3329:ALA:HB2	1.95	0.47
1:A:3247:ARG:CG	17:Q:127:ASN:N	2.75	0.47
1:A:3252:GLN:HE22	17:Q:5:THR:CB	2.27	0.47
1:A:3270:LYS:HE3	17:Q:57:LEU:O	1.98	0.47
1:A:3301:GLU:N	17:Q:99:GLN:CB	2.77	0.47
2:B:349:ASN:HA	2:B:416:LEU:HD22	1.88	0.47
2:B:544:HIS:CE1	2:B:609:LEU:CG	2.95	0.47
2:B:744:MET:SD	2:B:772:ILE:CD1	2.99	0.47
2:B:919:GLU:N	2:B:927:ARG:HD2	2.30	0.47
2:B:938:PHE:HB3	2:B:956:LEU:HD13	1.97	0.47
2:B:951:MET:N	2:B:952:PRO:CD	2.78	0.47
2:B:1061:GLN:HG2	2:B:1091:VAL:CG1	2.45	0.47
2:B:1237:ARG:CD	2:B:1260:ALA:CA	2.84	0.47
2:B:1454:GLN:C	2:B:1455:VAL:HG23	2.40	0.47
2:B:1521:VAL:CG2	2:B:1585:SER:HB3	2.45	0.47
2:B:1602:LYS:HD2	2:B:1683:GLU:OE1	1.98	0.47
2:B:1603:LYS:HB3	2:B:1610:TYR:CZ	2.50	0.47
2:B:3125:LYS:NZ	2:B:3447:MET:SD	2.83	0.47
2:B:3239:VAL:HG13	2:B:3291:ILE:HD11	1.96	0.47
2:B:3402:LYS:C	2:B:3402:LYS:CD	2.85	0.47
2:B:4040:MET:HG2	2:B:4075:PHE:HB2	1.97	0.47
3:C:29:VAL:CG2	3:C:92:ALA:HA	2.43	0.47
3:C:113:ILE:HD11	3:C:124:PRO:HG3	1.96	0.47
3:C:146:ARG:HG3	3:C:149:HIS:ND1	2.29	0.47
3:C:352:LEU:HD13	3:C:352:LEU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1718:VAL:HG21	3:C:1737:LEU:HD21	1.97	0.47
3:C:2709:ALA:CB	3:C:2758:MET:HG2	2.45	0.47
4:D:162:LEU:HD23	4:D:162:LEU:O	2.14	0.47
4:D:172:GLU:OE2	12:L:55:LEU:HB2	2.14	0.47
4:D:199:ILE:HD11	9:I:98:PHE:CD2	2.49	0.47
4:D:386:TYR:HE1	5:E:142:VAL:HG12	1.79	0.47
4:D:426:TRP:CE3	4:D:435:PRO:HB3	2.48	0.47
4:D:518:SER:HG	4:D:528:TRP:HZ3	0.64	0.47
4:D:553:TYR:OH	4:D:620:LEU:CD1	2.62	0.47
5:E:44:ASN:N	5:E:45:PRO:CD	2.77	0.47
5:E:120:ILE:HG23	6:F:101:GLN:OE1	2.15	0.47
8:H:50:ARG:HH22	9:I:88:THR:HG21	1.80	0.47
9:I:26:ASN:HD22	9:I:98:PHE:HE2	1.63	0.47
11:K:21:MET:HE2	11:K:54:TYR:CG	2.50	0.47
1:A:688:PHE:HD2	1:A:772:TRP:CH2	2.33	0.47
1:A:818:LEU:HB2	1:A:844:LYS:CG	2.45	0.47
1:A:1066:VAL:HG11	1:A:1068:THR:O	2.14	0.47
1:A:1424:ASP:C	1:A:1428:LYS:HG3	2.38	0.47
1:A:2866:VAL:HG11	1:A:3026:TRP:CZ3	2.50	0.47
1:A:3302:THR:CG2	17:Q:101:TRP:CB	2.93	0.47
2:B:591:TRP:CD1	5:E:411:TYR:OH	2.68	0.47
2:B:802:ILE:HD11	2:B:882:LEU:HD11	1.67	0.47
2:B:861:ASP:HB3	3:C:171:ARG:CD	2.32	0.47
2:B:1480:HIS:O	2:B:1484:LEU:CB	2.63	0.47
2:B:3074:ILE:HG23	2:B:3486:ILE:HD12	1.97	0.47
2:B:3261:ILE:C	2:B:3306:ILE:HG21	2.32	0.47
2:B:3321:PHE:O	2:B:3321:PHE:CG	2.68	0.47
2:B:4466:LEU:HD13	2:B:4466:LEU:C	2.40	0.47
3:C:227:SER:HB3	3:C:249:PRO:HA	1.97	0.47
3:C:231:ILE:HG13	3:C:231:ILE:O	2.15	0.47
3:C:834:VAL:CG2	3:C:881:ILE:HD11	2.41	0.47
3:C:1864:ILE:HA	3:C:1868:CYS:HB3	1.97	0.47
3:C:2745:LYS:HG3	3:C:2749:VAL:HG21	1.87	0.47
4:D:145:GLU:HA	4:D:151:ALA:HB3	1.97	0.47
4:D:183:ARG:HB3	11:K:72:TYR:HE2	1.79	0.47
4:D:509:ASN:HD21	4:D:512:HIS:HB3	1.80	0.47
8:H:52:ARG:CA	18:R:63:ASN:HA	2.45	0.47
12:L:82:PHE:HA	13:M:58:GLY:HA2	1.97	0.47
15:O:22:LEU:HD11	15:O:23:ASN:ND2	2.23	0.47
1:A:603:GLU:HG3	1:A:662:LYS:HE3	1.97	0.47
1:A:607:ILE:CD1	1:A:655:PHE:HD2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:770:LEU:HD11	1:A:780:TYR:CG	2.50	0.47
1:A:1914:LEU:HD21	1:A:1921:GLY:HA3	1.96	0.47
1:A:3212:VAL:CG2	1:A:3338:ALA:CB	2.69	0.47
1:A:3280:THR:HG22	1:A:3286:PHE:HD1	1.79	0.47
1:A:3500:ILE:HD12	1:A:3515:ILE:HG23	1.95	0.47
1:A:3508:LEU:HB2	1:A:3540:TRP:CD1	2.50	0.47
2:B:4:HIS:C	2:B:6:GLN:H	2.22	0.47
2:B:601:GLU:N	2:B:602:PRO:CD	2.77	0.47
2:B:725:ILE:HD12	2:B:780:VAL:HG21	1.97	0.47
2:B:811:PRO:HA	2:B:900:PHE:HE2	1.80	0.47
2:B:1051:ASP:OD2	2:B:1162:THR:CG2	2.60	0.47
2:B:1474:MET:CE	2:B:1515:VAL:CB	2.83	0.47
2:B:1792:THR:HG22	2:B:2038:ASN:HD21	1.80	0.47
2:B:2333:PRO:HB3	20:B:5403:ATP:N6	2.30	0.47
3:C:2677:LYS:CB	3:C:2841:THR:HG21	2.45	0.47
3:C:2703:LYS:N	3:C:2703:LYS:CD	2.78	0.47
3:C:3381:SER:N	3:C:3382:PRO:HD2	2.29	0.47
4:D:80:PRO:CD	15:O:103:TRP:HZ2	2.16	0.47
4:D:538:CYS:O	4:D:538:CYS:SG	2.73	0.47
5:E:394:TRP:HD1	5:E:400:THR:O	1.98	0.47
9:I:24:ILE:CG2	9:I:98:PHE:CD1	2.98	0.47
1:A:59:VAL:C	1:A:100:ASN:O	2.58	0.47
1:A:634:ILE:HG23	1:A:638:TYR:CE1	2.50	0.47
1:A:3748:ARG:HB3	1:A:3749:PRO:HD3	1.97	0.47
2:B:492:PHE:CE2	2:B:496:ILE:HD11	2.50	0.47
2:B:524:LEU:C	2:B:524:LEU:CD2	2.85	0.47
2:B:804:ARG:CZ	2:B:896:ILE:HG22	2.45	0.47
2:B:946:ARG:HG3	2:B:953:GLY:HA3	1.96	0.47
2:B:1456:PHE:CE1	2:B:1467:PHE:CZ	3.02	0.47
2:B:2395:PRO:HG2	2:B:2665:LEU:HD21	1.97	0.47
2:B:3453:LEU:CD2	2:B:3492:ILE:CD1	2.91	0.47
2:B:3762:ILE:O	2:B:3765:SER:OG	2.30	0.47
2:B:3928:LEU:HD13	2:B:3928:LEU:C	2.40	0.47
3:C:10:LEU:HD23	3:C:65:ASN:O	2.01	0.47
3:C:2723:PHE:HZ	3:C:2749:VAL:HG11	1.75	0.47
3:C:2743:ASN:ND2	3:C:2785:VAL:CG1	2.40	0.47
5:E:58:GLU:CB	10:J:89:VAL:HG22	2.45	0.47
5:E:291:TRP:CE2	5:E:300:PRO:HB3	2.50	0.47
7:G:77:LEU:HB2	7:G:90:PHE:HE2	1.80	0.47
10:J:64:LEU:HD11	10:J:68:MET:HE2	1.97	0.47
1:A:56:TYR:C	1:A:58:GLN:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:590:GLN:CB	1:A:609:TRP:CH2	2.97	0.46
1:A:598:ARG:HH11	4:D:504:TYR:HD1	1.62	0.46
1:A:604:ALA:HB2	1:A:698:GLU:CD	2.40	0.46
1:A:703:ASP:CG	4:D:454:ILE:HG22	2.40	0.46
1:A:739:ARG:HH11	1:A:743:LYS:HZ2	1.63	0.46
1:A:1127:LYS:O	1:A:1208:TYR:CE1	2.67	0.46
1:A:1424:ASP:O	1:A:1428:LYS:CG	2.55	0.46
1:A:1444:GLN:C	1:A:1561:VAL:HG22	2.09	0.46
1:A:2027:PHE:CE2	1:A:2051:ILE:HG23	2.50	0.46
1:A:2298:LEU:HD11	20:A:4702:ATP:C5	2.50	0.46
1:A:3226:ASN:ND2	1:A:3233:ILE:HD13	2.30	0.46
1:A:3425:GLU:OE2	1:A:3425:GLU:HA	2.13	0.46
2:B:559:GLN:HB2	2:B:629:ILE:CD1	2.45	0.46
2:B:690:LEU:C	2:B:690:LEU:CD1	2.85	0.46
2:B:857:LYS:O	3:C:169:TYR:O	2.31	0.46
2:B:963:PHE:CD1	3:C:39:LEU:HD13	2.35	0.46
2:B:984:ASN:C	2:B:987:ARG:HG2	2.39	0.46
2:B:1234:GLU:CB	2:B:1308:LEU:CB	2.83	0.46
2:B:2586:LYS:HA	2:B:2592:TYR:HD2	1.79	0.46
2:B:3257:ARG:CG	2:B:3276:VAL:HG11	2.45	0.46
2:B:3445:LYS:O	2:B:3487:PRO:O	2.32	0.46
2:B:3525:ILE:HD11	2:B:3544:TRP:HH2	1.80	0.46
2:B:4447:PRO:HB2	2:B:4558:VAL:HG11	1.97	0.46
3:C:267:PHE:CD1	3:C:293:VAL:HG22	2.50	0.46
3:C:346:LEU:O	3:C:346:LEU:HD13	2.15	0.46
3:C:3622:ILE:HD11	3:C:3624:LEU:HD21	1.96	0.46
4:D:465:ASN:HB2	4:D:508:TRP:CE2	2.51	0.46
4:D:477:GLU:HA	4:D:502:ALA:CB	2.45	0.46
6:F:14:LEU:CD2	6:F:23:TYR:HD2	2.05	0.46
9:I:20:ILE:O	9:I:99:TYR:CZ	2.67	0.46
15:O:34:ILE:HD11	15:O:76:VAL:HG21	1.97	0.46
18:R:120:GLU:O	18:R:124:THR:CB	2.63	0.46
1:A:597:VAL:CG1	4:D:460:LEU:HD12	2.46	0.46
1:A:601:PRO:CB	1:A:698:GLU:OE1	2.40	0.46
1:A:906:LEU:CD1	1:A:998:VAL:CB	2.59	0.46
1:A:3240:VAL:CG1	1:A:3244:PHE:CE1	2.92	0.46
1:A:3538:GLN:O	1:A:3541:ILE:HG22	2.15	0.46
2:B:659:THR:HA	2:B:757:TRP:CZ2	2.50	0.46
2:B:689:LEU:O	2:B:691:ARG:NH2	2.48	0.46
2:B:1316:ALA:HB1	16:P:62:LYS:CB	2.45	0.46
2:B:1456:PHE:CZ	2:B:1569:VAL:HG12	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3402:LYS:HD3	2:B:3402:LYS:O	2.15	0.46
3:C:2403:TYR:CE1	3:C:2480:VAL:HG11	2.51	0.46
3:C:2711:SER:CB	3:C:2751:TRP:HZ2	1.98	0.46
4:D:109:PHE:CD1	15:O:114:THR:OG1	2.67	0.46
5:E:164:VAL:HG21	5:E:485:VAL:HG23	1.97	0.46
5:E:355:ILE:N	5:E:355:ILE:CD1	2.73	0.46
5:E:491:CYS:O	5:E:495:TYR:CD2	2.68	0.46
7:G:86:VAL:HG21	7:G:143:PHE:CE1	2.49	0.46
8:H:10:VAL:CG1	8:H:80:TYR:OH	2.63	0.46
10:J:76:TRP:CE2	10:J:109:GLN:HB2	2.51	0.46
1:A:736:GLU:O	1:A:740:ILE:HG13	2.14	0.46
1:A:1041:ASN:CA	1:A:1047:ASN:HD21	2.25	0.46
1:A:1637:VAL:HG11	1:A:1653:ILE:CG2	2.44	0.46
1:A:3106:LYS:CD	1:A:3443:LEU:CD1	2.93	0.46
1:A:3251:ILE:HB	17:Q:62:ILE:CB	2.45	0.46
1:A:3446:ASN:HA	1:A:3488:LEU:HD22	1.92	0.46
2:B:511:PHE:CE2	2:B:543:LYS:HG3	2.50	0.46
2:B:605:LYS:O	2:B:608:GLN:HB2	2.15	0.46
2:B:953:GLY:C	3:C:282:ARG:CZ	2.88	0.46
2:B:1076:LEU:HD23	2:B:1076:LEU:H	1.79	0.46
2:B:1235:SER:O	2:B:1239:GLU:HG3	2.15	0.46
2:B:3121:LEU:HD13	2:B:3121:LEU:O	2.15	0.46
3:C:211:LYS:HB3	3:C:212:PRO:HD2	1.97	0.46
3:C:1382:THR:HA	3:C:1385:ILE:HG22	1.96	0.46
3:C:2564:LEU:HD13	3:C:2564:LEU:C	2.40	0.46
3:C:2666:CYS:SG	3:C:2667:GLY:N	2.88	0.46
3:C:2711:SER:CA	3:C:2751:TRP:HZ2	2.26	0.46
3:C:3497:GLU:HG3	3:C:3861:ILE:HD11	1.97	0.46
3:C:3757:LEU:HD23	3:C:3757:LEU:C	2.41	0.46
4:D:422:ARG:NH2	4:D:424:MET:SD	2.86	0.46
5:E:46:ASN:HB2	12:L:90:ALA:HA	1.98	0.46
8:H:65:PHE:HB2	9:I:80:GLY:HA3	1.90	0.46
10:J:38:GLU:OE1	15:O:29:PHE:CD1	2.67	0.46
12:L:16:LEU:HD21	12:L:19:HIS:CE1	2.50	0.46
1:A:674:LEU:HD13	1:A:674:LEU:C	2.40	0.46
1:A:3257:VAL:HG22	1:A:3266:VAL:HG12	1.90	0.46
1:A:4461:LEU:HD21	1:A:4516:ILE:HG21	1.97	0.46
2:B:599:ILE:HG22	2:B:626:TYR:CD1	2.51	0.46
2:B:3236:LYS:HA	2:B:3291:ILE:HG13	1.97	0.46
2:B:3243:LYS:HD2	2:B:3284:MET:O	2.16	0.46
2:B:3316:ASP:OD1	2:B:3317:PRO:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4435:ILE:HD12	2:B:4436:PRO:HD2	1.97	0.46
3:C:90:ILE:HD11	3:C:96:LEU:CD2	2.46	0.46
3:C:217:PHE:HE1	3:C:246:HIS:HB2	1.78	0.46
3:C:2892:ARG:NH2	3:C:3185:ASP:CB	2.78	0.46
3:C:2903:LEU:C	3:C:2903:LEU:CD2	2.88	0.46
4:D:374:VAL:HB	4:D:386:TYR:HB2	1.96	0.46
5:E:258:GLU:CD	5:E:258:GLU:N	2.73	0.46
5:E:355:ILE:H	5:E:355:ILE:CD1	2.24	0.46
6:F:84:SER:OG	6:F:106:ALA:CB	2.63	0.46
12:L:76:CYS:SG	12:L:106:LEU:O	2.70	0.46
15:O:64:VAL:HG13	15:O:85:VAL:HG23	1.98	0.46
1:A:599:ASN:HB3	4:D:419:SER:CB	2.45	0.46
1:A:805:ARG:CZ	5:E:149:THR:HG22	2.44	0.46
1:A:814:SER:HB3	1:A:900:ASN:HD22	1.81	0.46
1:A:837:GLN:NE2	1:A:958:ALA:HA	2.30	0.46
1:A:857:ARG:CG	5:E:206:ASN:HA	2.42	0.46
1:A:1041:ASN:CA	1:A:1047:ASN:ND2	2.79	0.46
1:A:1458:MET:SD	1:A:1552:MET:CG	3.03	0.46
1:A:3249:ILE:HG13	1:A:3273:TYR:N	2.29	0.46
2:B:963:PHE:CG	3:C:41:ASN:HA	2.50	0.46
2:B:1454:GLN:HB3	2:B:1473:MET:CE	2.45	0.46
2:B:2577:GLN:OE1	2:B:2636:ARG:NH1	2.49	0.46
2:B:2885:ASN:HB2	2:B:3043:THR:HG22	1.98	0.46
3:C:102:TYR:CD1	3:C:103:THR:HG23	2.50	0.46
3:C:972:LEU:HD21	3:C:1017:MET:HE1	1.94	0.46
3:C:1983:THR:HA	19:C:4305:ADP:N6	2.30	0.46
3:C:2724:ALA:O	3:C:2727:ILE:HG22	2.15	0.46
3:C:2725:ALA:O	3:C:2729:LEU:CD2	2.63	0.46
3:C:3244:VAL:HB	3:C:3878:VAL:HG22	1.98	0.46
4:D:245:CYS:SG	7:G:145:LEU:HD12	2.55	0.46
4:D:329:ILE:HB	4:D:344:PHE:HB2	1.98	0.46
4:D:584:ILE:HD12	4:D:585:VAL:H	1.81	0.46
5:E:453:SER:HB3	5:E:480:ASP:OD2	2.16	0.46
5:E:492:ASP:HB3	5:E:495:TYR:OH	2.16	0.46
6:F:82:LYS:N	7:G:124:VAL:HG23	2.30	0.46
10:J:32:CYS:N	10:J:95:PHE:O	2.49	0.46
11:K:29:ALA:HB1	11:K:87:ILE:HD12	1.98	0.46
16:P:61:GLU:C	16:P:63:ARG:N	2.73	0.46
1:A:573:LEU:CG	1:A:633:GLU:HG2	2.29	0.46
1:A:737:TYR:HD1	1:A:759:LEU:HD21	1.81	0.46
1:A:871:LEU:CD2	1:A:872:ASP:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2348:MET:HE3	1:A:2400:GLU:HG3	1.97	0.46
1:A:2463:THR:HG23	19:A:4701:ADP:N6	2.30	0.46
2:B:422:ARG:CB	2:B:422:ARG:HH11	2.28	0.46
2:B:555:LEU:HD23	2:B:625:LEU:HD13	1.96	0.46
2:B:804:ARG:CZ	2:B:896:ILE:CG2	2.93	0.46
2:B:814:TYR:O	2:B:818:LEU:CB	2.63	0.46
2:B:1395:LEU:CB	2:B:1430:ILE:HG21	2.45	0.46
3:C:132:GLU:OE1	3:C:133:PRO:CD	2.50	0.46
3:C:2585:PHE:HE1	3:C:2929:LEU:HB2	1.78	0.46
3:C:2630:GLU:O	3:C:2634:LYS:HG3	2.15	0.46
3:C:3054:SER:OG	3:C:3055:ALA:N	2.48	0.46
4:D:313:ALA:CB	4:D:331:LEU:HG	2.46	0.46
4:D:640:LYS:HZ1	4:D:643:LYS:HD3	1.80	0.46
5:E:57:SER:O	10:J:90:HIS:CD2	2.69	0.46
7:G:137:VAL:HG22	7:G:146:ILE:HG23	1.98	0.46
1:A:612:HIS:CE1	4:D:522:ASP:CB	2.99	0.46
1:A:1013:VAL:CG1	1:A:1076:LEU:HD21	2.46	0.46
1:A:1126:VAL:CA	1:A:1131:SER:HG	2.13	0.46
1:A:1417:GLU:C	1:A:1420:THR:OG1	2.58	0.46
1:A:2298:LEU:CD2	20:A:4702:ATP:C8	2.98	0.46
1:A:2871:SER:N	19:A:4703:ADP:O2B	2.48	0.46
1:A:2907:LYS:HB2	1:A:2950:LEU:HD11	1.98	0.46
1:A:3069:MET:HE2	1:A:3472:ARG:HD2	1.98	0.46
1:A:3117:PHE:CE2	1:A:3429:TRP:HZ3	2.25	0.46
2:B:53:ILE:CB	2:B:90:ALA:CB	2.89	0.46
2:B:649:GLU:O	2:B:652:SER:OG	2.29	0.46
2:B:962:PHE:CB	2:B:965:ILE:HD13	2.46	0.46
2:B:1795:VAL:HG23	2:B:2041:MET:HE1	1.96	0.46
2:B:1819:SER:HA	2:B:1857:VAL:HG13	1.98	0.46
2:B:3690:LEU:O	2:B:3694:LEU:HD23	2.15	0.46
2:B:4189:ILE:CG2	2:B:4194:MET:HE2	2.45	0.46
3:C:2742:LYS:HE2	3:C:2785:VAL:HG11	1.98	0.46
4:D:141:MET:CB	4:D:158:ILE:HD13	2.45	0.46
4:D:163:ARG:HH11	12:L:73:GLU:CD	2.22	0.46
4:D:174:GLN:C	13:M:61:PHE:O	2.56	0.46
4:D:216:HIS:CA	4:D:217:GLN:N	2.78	0.46
4:D:242:LYS:HG2	7:G:60:VAL:HG21	1.89	0.46
4:D:543:MET:CG	4:D:563:MET:HB3	2.46	0.46
5:E:430:ARG:O	5:E:430:ARG:HG2	2.16	0.46
9:I:79:ILE:HG22	9:I:105:VAL:HG13	1.97	0.46
14:N:116:ALA:HB1	15:O:131:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:GLU:CB	1:A:98:ILE:O	2.64	0.46
1:A:402:PRO:C	1:A:467:ILE:O	2.59	0.46
1:A:793:GLN:CG	5:E:451:LYS:HB2	2.39	0.46
1:A:818:LEU:O	1:A:818:LEU:CD2	2.64	0.46
1:A:899:LEU:HD21	1:A:989:ILE:HG12	1.98	0.46
1:A:1620:PRO:HB2	1:A:1639:PHE:CE1	2.50	0.46
1:A:2164:SER:HB2	20:A:4702:ATP:O2A	2.16	0.46
1:A:2418:ILE:HG22	1:A:2419:PRO:CD	2.45	0.46
1:A:2567:VAL:HG22	1:A:2573:GLN:HG3	1.98	0.46
1:A:2870:GLY:H	19:A:4703:ADP:PB	2.39	0.46
2:B:551:TYR:CD2	2:B:622:VAL:HG11	2.34	0.46
2:B:733:GLU:CG	2:B:783:MET:HG2	2.45	0.46
2:B:864:ASN:CA	2:B:947:LEU:CD2	2.78	0.46
2:B:2176:VAL:HG13	2:B:2177:ARG:HG2	1.98	0.46
2:B:2543:GLY:N	19:B:5405:ADP:O1A	2.49	0.46
2:B:3147:GLN:HB2	2:B:3426:LEU:HB3	1.98	0.46
2:B:3388:VAL:CG1	2:B:3392:LYS:HE3	2.46	0.46
2:B:3875:GLN:HA	2:B:3878:ILE:HD12	1.98	0.46
3:C:269:PHE:HB2	3:C:291:SER:CB	2.44	0.46
3:C:2637:GLU:HA	3:C:2640:ALA:CB	2.46	0.46
3:C:2931:ALA:HB1	3:C:2975:LEU:HD21	1.97	0.46
4:D:183:ARG:HD2	11:K:72:TYR:OH	2.15	0.46
5:E:16:ASN:N	5:E:17:PRO:HD3	2.31	0.46
5:E:59:HIS:HD2	10:J:90:HIS:HE1	1.50	0.46
10:J:37:LEU:HA	10:J:96:ILE:HD13	1.97	0.46
12:L:72:GLY:O	12:L:109:LYS:CE	2.63	0.46
15:O:64:VAL:HG13	15:O:85:VAL:CG2	2.46	0.46
1:A:306:LYS:O	1:A:310:ALA:HB3	2.15	0.46
1:A:759:LEU:HD21	1:A:788:LEU:HD21	1.97	0.46
1:A:933:VAL:CG2	1:A:951:ILE:CD1	2.93	0.46
1:A:1448:GLY:C	1:A:1459:LEU:HD22	2.41	0.46
1:A:1613:ILE:O	1:A:1680:ILE:HD12	2.16	0.46
1:A:2511:ASP:HB2	1:A:2514:LYS:HB2	1.98	0.46
1:A:2663:LYS:HB3	1:A:2768:GLN:HE22	1.81	0.46
1:A:3251:ILE:O	17:Q:62:ILE:CA	2.59	0.46
1:A:3306:LEU:HD22	1:A:3309:TYR:CB	2.43	0.46
1:A:3638:LEU:HA	1:A:3641:LYS:HE3	1.98	0.46
1:A:3999:THR:HG21	1:A:4044:GLN:NE2	2.31	0.46
2:B:1230:MET:SD	2:B:1266:VAL:CB	3.04	0.46
2:B:3264:ASN:HA	2:B:3306:ILE:HD11	1.97	0.46
2:B:4130:LEU:C	2:B:4130:LEU:HD23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2119:ILE:HG21	3:C:2122:THR:CG2	2.46	0.46
3:C:2763:GLU:O	3:C:2767:LYS:HG2	2.16	0.46
3:C:3966:LEU:HD23	3:C:3976:PRO:HB3	1.97	0.46
4:D:163:ARG:NH1	12:L:73:GLU:HG2	2.30	0.46
4:D:174:GLN:HA	13:M:61:PHE:O	2.15	0.46
4:D:177:ASN:HD21	13:M:60:ASN:HB2	0.29	0.46
4:D:441:LEU:HB3	4:D:457:ALA:HB3	1.98	0.46
4:D:553:TYR:OH	4:D:620:LEU:HD11	2.16	0.46
4:D:635:ALA:HB1	4:D:639:PHE:HB3	1.98	0.46
5:E:170:HIS:CD2	5:E:172:GLU:HB3	2.51	0.46
5:E:343:LEU:HD13	5:E:355:ILE:HG21	1.98	0.46
6:F:66:ASP:O	7:G:98:ASN:HB3	2.15	0.46
8:H:80:TYR:CD1	8:H:80:TYR:O	2.69	0.46
12:L:27:ALA:HB3	12:L:30:LEU:HG	1.98	0.46
15:O:41:LEU:HD23	15:O:67:LEU:CD1	2.45	0.46
16:P:24:ASN:CA	16:P:96:GLY:HA3	2.45	0.46
1:A:688:PHE:HB3	1:A:727:TYR:HE2	1.81	0.46
1:A:818:LEU:CD1	1:A:818:LEU:N	2.67	0.46
1:A:821:LEU:O	1:A:912:ARG:CD	2.64	0.46
1:A:935:VAL:HA	1:A:944:LEU:CD2	2.46	0.46
1:A:1013:VAL:CA	1:A:1016:PHE:CE1	2.91	0.46
1:A:1121:LYS:HD2	1:A:1138:THR:HG22	1.96	0.46
1:A:1163:LEU:C	1:A:1163:LEU:CD2	2.85	0.46
1:A:3067:HIS:CD2	1:A:3092:PHE:HB2	2.52	0.46
1:A:3231:ASP:CG	1:A:3258:PHE:CD2	2.81	0.46
1:A:3290:LEU:HD23	1:A:3335:TRP:CH2	2.37	0.46
1:A:3305:LEU:HD12	17:Q:101:TRP:CB	2.44	0.46
1:A:4445:ARG:HG2	1:A:4466:GLY:HA2	1.97	0.46
2:B:642:LEU:HD13	2:B:642:LEU:O	2.16	0.46
2:B:1444:LEU:O	2:B:1448:GLU:CG	2.60	0.46
2:B:1522:GLN:O	2:B:1526:LYS:N	2.42	0.46
2:B:4220:LEU:O	2:B:4220:LEU:HD23	2.15	0.46
3:C:250:LYS:HG3	3:C:273:VAL:HG13	1.94	0.46
3:C:3806:LYS:O	3:C:3810:ARG:HG3	2.15	0.46
5:E:378:GLN:CB	5:E:422:SER:HB3	2.43	0.46
5:E:428:VAL:HG11	5:E:460:ILE:HB	1.97	0.46
5:E:437:TRP:CZ2	5:E:446:ILE:HG13	2.51	0.46
6:F:54:ASP:OD1	7:G:109:LYS:HE2	2.15	0.46
6:F:85:TYR:HB3	6:F:87:TYR:CE1	2.51	0.46
7:G:111:ARG:NH2	7:G:139:PRO:HB2	2.29	0.46
11:K:42:ILE:CG2	11:K:62:VAL:HG21	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:7:VAL:HG23	13:M:7:VAL:O	2.15	0.46
13:M:53:TRP:CZ3	13:M:86:LYS:HB2	2.50	0.46
1:A:717:LEU:HD11	4:D:454:ILE:O	2.09	0.45
1:A:894:PHE:CG	1:A:972:TRP:HH2	2.34	0.45
1:A:1127:LYS:O	1:A:1208:TYR:OH	2.34	0.45
1:A:1540:GLN:O	1:A:1544:ILE:CB	2.64	0.45
1:A:1617:GLY:HA2	1:A:1623:ILE:HD11	1.84	0.45
1:A:1638:THR:CG2	1:A:1655:GLN:CG	2.94	0.45
1:A:2840:VAL:HG11	1:A:3041:THR:HG21	1.97	0.45
1:A:3715:VAL:HA	1:A:3718:ASN:HB3	1.97	0.45
1:A:3855:ALA:HB2	1:A:4413:ALA:HB2	1.98	0.45
2:B:433:ILE:HG12	2:B:463:PHE:CE1	2.51	0.45
2:B:1490:GLN:HB3	2:B:3612:ASP:CB	2.47	0.45
2:B:1604:LYS:HA	2:B:1945:GLN:OE1	2.16	0.45
2:B:1612:LEU:CD2	2:B:1637:CYS:SG	3.03	0.45
2:B:1806:ILE:HD12	2:B:4535:GLU:HB2	1.98	0.45
2:B:2546:ALA:HB2	19:B:5405:ADP:H5'2	1.98	0.45
2:B:3210:SER:CB	2:B:3364:ASN:OD1	2.51	0.45
2:B:3791:VAL:O	2:B:3796:ARG:NH1	2.49	0.45
3:C:463:PRO:O	3:C:465:LEU:N	2.43	0.45
3:C:2790:ASN:HA	3:C:2793:LEU:HD12	1.97	0.45
4:D:114:ASP:OD1	5:E:43:ARG:NE	2.46	0.45
4:D:201:GLN:OE1	9:I:81:GLU:OE2	2.34	0.45
4:D:301:SER:CB	4:D:352:CYS:HA	2.46	0.45
4:D:367:LEU:HD11	4:D:371:THR:HG23	1.95	0.45
5:E:394:TRP:CG	5:E:401:PRO:HA	2.44	0.45
5:E:492:ASP:N	5:E:495:TYR:CE2	2.84	0.45
6:F:26:PHE:CD1	6:F:49:ALA:CA	2.97	0.45
8:H:39:LYS:HA	9:I:84:ALA:HB1	1.96	0.45
1:A:655:PHE:O	1:A:659:TRP:HD1	1.99	0.45
1:A:853:VAL:O	5:E:206:ASN:CA	2.62	0.45
1:A:1613:ILE:HD11	1:A:1626:ASP:HB2	1.96	0.45
1:A:1676:CYS:HG	1:A:1683:TRP:CG	2.34	0.45
1:A:2418:ILE:CG2	1:A:2428:VAL:HG22	2.47	0.45
1:A:3049:LEU:HD12	1:A:3103:TYR:OH	2.16	0.45
1:A:3237:MET:O	1:A:3241:LEU:HG	2.16	0.45
1:A:3260:LYS:NZ	1:A:3267:LEU:HD21	2.32	0.45
1:A:3453:PHE:HA	1:A:3457:CYS:SG	2.55	0.45
2:B:533:ARG:NE	2:B:534:PRO:CD	2.79	0.45
2:B:927:ARG:NH1	2:B:976:LEU:CB	2.73	0.45
2:B:952:PRO:HD2	3:C:222:PHE:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1139:LEU:C	2:B:1139:LEU:CD1	2.86	0.45
2:B:3863:LEU:HD22	2:B:3863:LEU:N	2.31	0.45
2:B:4041:LEU:CB	2:B:4044:ILE:HD11	2.46	0.45
2:B:4451:LEU:HD11	2:B:4559:PHE:CD1	2.51	0.45
3:C:354:VAL:HG22	3:C:357:ILE:HG13	1.94	0.45
3:C:2589:LEU:HB2	3:C:2928:VAL:CG1	2.34	0.45
3:C:2763:GLU:HA	3:C:2763:GLU:OE2	2.16	0.45
4:D:242:LYS:CG	7:G:60:VAL:HG21	2.45	0.45
4:D:431:ASN:HA	5:E:142:VAL:HB	1.98	0.45
4:D:584:ILE:HD11	4:D:590:LEU:HD21	1.98	0.45
5:E:82:GLY:CA	8:H:12:LYS:HZ1	2.25	0.45
5:E:183:ILE:CG1	5:E:193:MET:HE1	2.46	0.45
5:E:276:GLY:HA3	5:E:294:ARG:HH11	1.79	0.45
8:H:16:MET:HE3	8:H:20:MET:HG2	1.98	0.45
14:N:74:GLN:NE2	14:N:77:ASN:HA	2.32	0.45
15:O:34:ILE:HD12	15:O:71:ILE:HG23	1.99	0.45
15:O:72:LYS:HD3	15:O:72:LYS:O	2.16	0.45
1:A:599:ASN:OD1	4:D:398:PRO:CG	2.62	0.45
1:A:1016:PHE:HD2	1:A:1020:PHE:CE2	2.33	0.45
1:A:1100:LEU:CD2	1:A:1159:MET:CE	2.94	0.45
1:A:1600:PRO:HB2	1:A:1917:SER:CB	2.45	0.45
1:A:3280:THR:HG22	1:A:3286:PHE:CD1	2.52	0.45
1:A:3305:LEU:CD2	17:Q:79:LEU:C	1.81	0.45
1:A:3308:PRO:CD	17:Q:56:SER:CB	2.92	0.45
2:B:413:PHE:CD2	2:B:416:LEU:HD12	2.51	0.45
2:B:533:ARG:NE	2:B:534:PRO:HD3	2.31	0.45
2:B:714:ALA:HB1	2:B:766:ILE:HD13	1.97	0.45
2:B:814:TYR:O	2:B:818:LEU:HG	2.17	0.45
2:B:899:LEU:HD11	2:B:900:PHE:CD1	2.39	0.45
2:B:1490:GLN:OE1	2:B:3612:ASP:HB2	2.16	0.45
2:B:1507:LYS:CG	2:B:1571:GLU:OE1	2.64	0.45
2:B:1532:PHE:CE1	2:B:1546:THR:HB	2.51	0.45
2:B:3103:TYR:CD2	2:B:3632:HIS:CD2	3.05	0.45
3:C:360:PRO:CG	3:C:361:PRO:HD2	2.46	0.45
3:C:760:THR:CB	3:C:827:ILE:HG12	2.46	0.45
3:C:2592:LYS:HD2	3:C:2928:VAL:HG23	1.90	0.45
3:C:2743:ASN:HD21	3:C:2786:ASN:CA	2.30	0.45
4:D:526:ARG:HB2	4:D:528:TRP:CZ3	2.46	0.45
4:D:529:ASP:CB	4:D:532:TYR:HD2	2.28	0.45
4:D:573:VAL:CG2	4:D:579:LEU:HD21	2.46	0.45
7:G:119:PRO:HG2	9:I:12:ILE:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:120:THR:H	9:I:12:ILE:HG21	1.81	0.45
8:H:77:ILE:HG22	8:H:88:LEU:CD1	2.46	0.45
15:O:24:TYR:CD1	15:O:26:LYS:HE2	2.51	0.45
17:Q:139:LYS:C	17:Q:141:LEU:H	2.24	0.45
1:A:614:PHE:CZ	1:A:648:LEU:CD1	2.99	0.45
1:A:666:SER:HB2	1:A:695:LEU:HD13	1.94	0.45
1:A:791:LEU:HG	1:A:795:ILE:HD12	1.97	0.45
1:A:801:ILE:HG22	1:A:862:LEU:HD11	1.99	0.45
1:A:808:ASN:O	1:A:812:THR:HG23	2.16	0.45
1:A:1016:PHE:O	1:A:1020:PHE:CG	2.70	0.45
1:A:1274:GLY:C	4:D:161:THR:HG1	2.23	0.45
1:A:1935:SER:HB2	1:A:4048:LEU:HD13	1.96	0.45
1:A:3095:TYR:CE1	1:A:3452:ALA:HA	2.51	0.45
1:A:3684:ASN:HB3	1:A:3726:VAL:HG22	1.98	0.45
1:A:4583:TYR:HB3	1:A:4584:PRO:HD2	1.98	0.45
2:B:822:PHE:O	2:B:826:LEU:HG	2.17	0.45
2:B:946:ARG:CG	2:B:953:GLY:HA3	2.47	0.45
2:B:1447:ILE:HG12	2:B:1480:HIS:HB3	1.99	0.45
2:B:2417:LEU:N	2:B:2418:PRO:HD2	2.31	0.45
2:B:2494:TRP:CD1	2:B:2519:ARG:HB3	2.51	0.45
2:B:3265:GLN:HG3	2:B:3283:PHE:CE2	2.52	0.45
2:B:3320:LYS:HB3	2:B:3325:ASP:HB2	1.98	0.45
2:B:4440:MET:HB2	2:B:4443:ARG:CG	2.45	0.45
3:C:244:ILE:N	3:C:244:ILE:HD12	2.32	0.45
3:C:1612:ILE:N	3:C:1613:PRO:HD2	2.31	0.45
3:C:2079:ILE:HD12	3:C:2124:VAL:CG1	2.45	0.45
3:C:2357:LEU:HD23	3:C:2488:ILE:HD12	1.98	0.45
3:C:2581:LEU:HD12	3:C:2937:TYR:CZ	2.51	0.45
3:C:3151:LYS:CE	3:C:3217:ILE:HD11	2.46	0.45
4:D:89:TYR:HE2	11:K:56:PRO:HD3	1.80	0.45
4:D:208:TYR:HE2	9:I:19:MET:HE3	1.80	0.45
4:D:209:TYR:HE1	4:D:213:MET:SD	2.40	0.45
4:D:428:LEU:HD12	4:D:428:LEU:N	2.32	0.45
4:D:514:ARG:O	4:D:514:ARG:HG3	2.15	0.45
4:D:573:VAL:HB	4:D:579:LEU:HD11	1.99	0.45
6:F:54:ASP:OD2	7:G:109:LYS:HE2	2.16	0.45
7:G:111:ARG:HA	7:G:123:LEU:HG	1.98	0.45
8:H:52:ARG:CA	18:R:63:ASN:CB	2.61	0.45
1:A:732:TYR:N	4:D:390:VAL:HG21	2.29	0.45
1:A:801:ILE:CG2	1:A:862:LEU:HG	2.44	0.45
1:A:878:VAL:CG2	1:A:879:LEU:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:899:LEU:HD22	1:A:995:ILE:CD1	2.46	0.45
1:A:1270:GLU:CB	1:A:1277:ASN:CG	2.90	0.45
1:A:1585:GLN:NE2	1:A:1585:GLN:C	2.73	0.45
1:A:2151:HIS:HB2	1:A:2264:MET:HE1	1.99	0.45
1:A:3120:GLY:HA2	1:A:3696:LEU:CD1	2.41	0.45
1:A:3229:PRO:CB	1:A:3233:ILE:HD13	2.46	0.45
1:A:3311:ASN:CG	17:Q:30:LYS:O	2.52	0.45
1:A:3560:HIS:CG	1:A:3561:PRO:HD2	2.51	0.45
2:B:429:LEU:HB3	2:B:492:PHE:CE2	2.49	0.45
2:B:718:ILE:HB	2:B:770:LYS:NZ	2.32	0.45
2:B:1115:ASP:O	2:B:1119:LYS:HG3	2.16	0.45
2:B:1529:TYR:HA	2:B:1549:PHE:CZ	2.52	0.45
2:B:2893:GLY:HA3	2:B:3109:LYS:HB2	1.97	0.45
2:B:3164:VAL:HG12	2:B:3409:ALA:CB	2.42	0.45
2:B:3267:ILE:O	2:B:3267:ILE:HG22	2.16	0.45
2:B:3283:PHE:CD1	2:B:3293:LYS:NZ	2.80	0.45
2:B:3770:MET:HE1	2:B:4080:PRO:CA	2.47	0.45
2:B:4152:ASN:HD21	2:B:4553:ARG:NH2	2.13	0.45
2:B:4548:TYR:CD2	2:B:4553:ARG:HD2	2.52	0.45
3:C:912:SER:HA	3:C:966:LEU:HD22	1.97	0.45
3:C:1383:ASP:O	3:C:1387:VAL:HG23	2.16	0.45
3:C:2849:VAL:HG13	3:C:2853:GLU:OE2	2.17	0.45
4:D:294:GLN:NE2	4:D:297:LYS:NZ	2.60	0.45
5:E:121:TYR:CZ	6:F:17:LEU:HD22	2.52	0.45
5:E:289:MET:HB3	5:E:300:PRO:CB	2.47	0.45
5:E:334:LEU:CD1	5:E:344:THR:HG22	2.47	0.45
8:H:79:LEU:HD11	8:H:86:ILE:HB	1.98	0.45
9:I:32:GLY:HA2	9:I:35:LEU:HD12	1.98	0.45
11:K:33:VAL:HG22	11:K:42:ILE:HG13	1.97	0.45
1:A:655:PHE:CE2	1:A:659:TRP:CD1	3.01	0.45
1:A:819:VAL:HA	1:A:840:TYR:CE2	2.49	0.45
1:A:935:VAL:CB	1:A:944:LEU:HD22	2.40	0.45
1:A:1052:LEU:HD13	1:A:1166:TYR:CD2	2.51	0.45
1:A:3247:ARG:CD	17:Q:128:ARG:HA	2.42	0.45
1:A:3304:GLU:HG2	17:Q:54:LYS:C	2.38	0.45
2:B:729:LEU:HD13	2:B:780:VAL:CG2	2.43	0.45
2:B:734:GLU:N	2:B:735:PRO:CD	2.80	0.45
2:B:867:VAL:CG1	2:B:944:ILE:HD13	2.46	0.45
2:B:963:PHE:CD1	3:C:345:TRP:CZ2	3.04	0.45
2:B:1069:THR:CB	2:B:1070:PRO:CD	2.92	0.45
2:B:2185:PRO:HG3	2:B:2326:GLU:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1658:ASP:O	20:C:4302:ATP:N6	2.49	0.45
3:C:1887:LEU:HD21	3:C:1902:PHE:HD1	1.81	0.45
3:C:2189:LEU:C	3:C:2189:LEU:HD13	2.41	0.45
3:C:2721:GLU:HG3	3:C:2813:ILE:HG22	1.98	0.45
4:D:89:TYR:CG	11:K:56:PRO:HB3	2.51	0.45
4:D:298:ASN:N	4:D:298:ASN:HD22	2.14	0.45
5:E:61:VAL:HG11	10:J:95:PHE:CE1	2.52	0.45
5:E:67:LYS:O	8:H:72:GLU:HA	2.17	0.45
6:F:61:LYS:HD2	8:H:33:ASP:O	2.17	0.45
6:F:62:VAL:CG1	7:G:106:LEU:HD21	2.46	0.45
7:G:74:LEU:HD22	7:G:148:ILE:CG2	2.47	0.45
8:H:24:VAL:HG22	8:H:49:PHE:CZ	2.51	0.45
8:H:60:ILE:HD13	9:I:78:ILE:CD1	2.45	0.45
10:J:99:TYR:CZ	10:J:104:ALA:HB2	2.52	0.45
12:L:59:LYS:HB2	12:L:59:LYS:HZ3	1.81	0.45
12:L:73:GLU:HG3	13:M:66:ILE:HG21	1.98	0.45
15:O:33:LYS:NZ	15:O:75:LYS:HD2	2.32	0.45
1:A:847:PHE:HZ	1:A:851:LYS:CE	2.29	0.45
1:A:1135:VAL:HG12	1:A:1136:MET:CE	2.46	0.45
1:A:1535:PRO:HB2	2:B:3861:ASN:ND2	2.30	0.45
1:A:1647:ASN:N	1:A:1648:PRO:CD	2.80	0.45
1:A:1889:LEU:HD12	1:A:1920:TRP:CZ2	2.52	0.45
1:A:3290:LEU:HD23	1:A:3290:LEU:HA	1.81	0.45
2:B:736:LEU:HG	2:B:856:TRP:HA	1.98	0.45
2:B:902:ILE:HG21	2:B:1076:LEU:CD1	2.42	0.45
2:B:1046:ASN:N	2:B:1049:LEU:HD12	2.32	0.45
2:B:2781:ASP:HB3	2:B:3046:ASP:HA	1.98	0.45
2:B:3157:LEU:HA	2:B:3160:LYS:CE	2.46	0.45
2:B:3252:VAL:HG22	2:B:3330:SER:OG	2.15	0.45
2:B:3514:ALA:HB3	2:B:3659:ALA:CB	2.46	0.45
3:C:1188:LEU:HD21	3:C:1218:VAL:HG22	1.97	0.45
3:C:2735:ASN:CG	3:C:2736:GLU:N	2.71	0.45
4:D:528:TRP:CD1	4:D:534:SER:C	2.92	0.45
5:E:12:LYS:HB3	5:E:13:GLU:H	1.47	0.45
5:E:150:LEU:CD1	5:E:475:LEU:HD22	2.46	0.45
5:E:420:THR:CG2	5:E:472:SER:C	2.90	0.45
5:E:515:LYS:HD3	5:E:515:LYS:C	2.42	0.45
7:G:76:TYR:O	7:G:76:TYR:CG	2.70	0.45
8:H:65:PHE:CZ	8:H:85:ALA:HB3	2.52	0.45
9:I:35:LEU:HB3	9:I:39:GLN:HE21	1.82	0.45
10:J:52:GLU:N	10:J:52:GLU:CD	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:77:ILE:CG2	13:M:80:LEU:HB3	2.46	0.45
14:N:75:GLN:N	15:O:93:GLN:HE21	2.03	0.45
1:A:577:ALA:CB	1:A:636:ARG:CD	2.60	0.45
1:A:1013:VAL:CG2	1:A:1076:LEU:HD11	2.46	0.45
1:A:1136:MET:CG	4:D:166:PHE:N	2.80	0.45
1:A:1458:MET:CE	1:A:1548:TRP:NE1	2.79	0.45
1:A:1504:VAL:CG2	1:A:1565:CYS:CB	2.72	0.45
1:A:2432:TYR:CE1	1:A:2471:MET:HE1	2.51	0.45
1:A:3124:ILE:CD1	1:A:3429:TRP:NE1	2.80	0.45
1:A:3544:LYS:HE3	1:A:3545:LEU:HD13	1.99	0.45
1:A:3592:ASP:N	1:A:3593:PRO:HD2	2.32	0.45
2:B:277:GLU:O	2:B:281:ALA:HB2	2.17	0.45
2:B:349:ASN:CB	2:B:416:LEU:CD1	2.94	0.45
2:B:467:VAL:C	2:B:471:THR:CB	2.70	0.45
2:B:511:PHE:CE2	2:B:547:LEU:HD23	2.47	0.45
2:B:966:LYS:CG	3:C:345:TRP:CZ3	2.99	0.45
2:B:3770:MET:HE1	2:B:4080:PRO:HA	1.98	0.45
3:C:24:HIS:CE1	3:C:339:GLY:O	2.70	0.45
3:C:287:PHE:CE1	3:C:322:GLU:HB2	2.52	0.45
3:C:338:PHE:CD2	3:C:338:PHE:O	2.70	0.45
3:C:2691:VAL:C	3:C:2693:GLN:N	2.74	0.45
3:C:2745:LYS:CG	3:C:2749:VAL:CG2	2.74	0.45
3:C:2927:ASP:CB	3:C:2974:ILE:HD13	2.45	0.45
4:D:68:GLU:HG3	5:E:12:LYS:CB	2.47	0.45
4:D:91:TYR:CE1	13:M:80:LEU:CD1	2.94	0.45
4:D:172:GLU:HG2	4:D:172:GLU:H	1.60	0.45
4:D:251:MET:HG3	7:G:125:PHE:CZ	2.52	0.45
4:D:429:MET:HE3	4:D:434:GLU:OE2	2.16	0.45
4:D:624:GLY:N	4:D:625:PRO:CD	2.79	0.45
5:E:64:GLU:OE1	5:E:64:GLU:N	2.48	0.45
5:E:185:ARG:HB2	5:E:188:GLN:HB2	1.98	0.45
8:H:28:ALA:CB	8:H:86:ILE:CD1	2.91	0.45
8:H:46:LYS:CE	9:I:86:ASP:C	2.89	0.45
12:L:37:GLN:HG2	12:L:60:PHE:CD1	2.52	0.45
15:O:113:TYR:CE2	15:O:115:TYR:HB2	2.52	0.45
1:A:709:ILE:CG2	1:A:710:PRO:CD	2.78	0.45
1:A:759:LEU:HD21	1:A:788:LEU:CD2	2.46	0.45
1:A:1550:LYS:HB3	1:A:1554:LYS:NZ	2.32	0.45
1:A:3709:ASP:CB	1:A:3712:LEU:HD12	2.43	0.45
1:A:3975:ILE:HA	1:A:3978:ILE:HD12	1.99	0.45
2:B:88:GLY:HA2	2:B:100:THR:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:440:GLU:HB2	2:B:460:PHE:CD1	2.52	0.45
2:B:467:VAL:CB	2:B:471:THR:OG1	2.59	0.45
2:B:804:ARG:CZ	2:B:899:LEU:HB3	2.47	0.45
2:B:2190:LYS:CE	20:B:5403:ATP:PB	3.05	0.45
2:B:3228:GLU:HG2	2:B:3346:PHE:CZ	2.49	0.45
2:B:3231:VAL:HA	2:B:3339:TRP:HA	1.99	0.45
2:B:3241:GLU:O	2:B:3245:LEU:N	2.50	0.45
3:C:98:PHE:CE2	3:C:160:ILE:HD13	2.52	0.45
3:C:1188:LEU:HD11	3:C:1207:LEU:HD11	1.98	0.45
4:D:251:MET:HE3	7:G:136:MET:HE3	1.98	0.45
5:E:168:SER:CB	5:E:222:SER:HA	2.47	0.45
5:E:435:ASP:N	5:E:435:ASP:OD1	2.49	0.45
10:J:68:MET:HE3	10:J:107:MET:SD	2.56	0.45
10:J:77:HIS:CA	11:K:70:VAL:HG23	2.46	0.45
11:K:44:SER:HB2	11:K:48:LYS:NZ	2.32	0.45
11:K:77:PHE:CE1	11:K:88:LEU:CD1	2.82	0.45
14:N:66:LYS:HG3	14:N:117:VAL:HG23	1.99	0.45
1:A:935:VAL:HG12	1:A:1081:ILE:CD1	2.44	0.45
1:A:1416:ILE:O	1:A:1420:THR:OG1	2.35	0.45
1:A:1778:ARG:HA	1:A:1778:ARG:NE	2.31	0.45
1:A:3307:GLU:O	17:Q:30:LYS:CA	2.64	0.45
1:A:4109:PHE:HA	1:A:4113:ILE:HB	1.99	0.45
2:B:439:LEU:HD21	2:B:456:ILE:HG23	1.99	0.45
2:B:729:LEU:HD23	2:B:734:GLU:CG	2.33	0.45
2:B:811:PRO:HA	2:B:900:PHE:CE2	2.51	0.45
2:B:1129:ALA:O	2:B:1132:GLU:HG3	2.17	0.45
2:B:1447:ILE:HG12	2:B:1480:HIS:CG	2.52	0.45
2:B:1456:PHE:CG	2:B:1569:VAL:HG13	2.34	0.45
2:B:1533:LEU:HD23	2:B:1534:LEU:HG	1.99	0.45
2:B:1611:PHE:HE1	2:B:1925:PHE:HZ	1.65	0.45
2:B:2523:MET:HE2	2:B:2523:MET:HA	1.99	0.45
2:B:2820:PHE:CZ	2:B:2836:GLN:HB3	2.52	0.45
2:B:4228:PRO:HB2	2:B:4229:TYR:CD2	2.51	0.45
3:C:227:SER:CB	3:C:249:PRO:HA	2.47	0.45
3:C:229:ILE:HD11	3:C:301:TRP:NE1	2.31	0.45
3:C:341:TRP:CE3	3:C:341:TRP:O	2.70	0.45
3:C:2701:ILE:HD13	3:C:2704:LYS:CE	2.32	0.45
3:C:2718:GLY:O	3:C:2722:VAL:HG22	2.16	0.45
3:C:2899:LEU:C	3:C:2899:LEU:CD2	2.88	0.45
4:D:109:PHE:CZ	15:O:121:TYR:CD2	3.03	0.45
4:D:246:LYS:HE2	4:D:250:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:63:THR:HB	10:J:99:TYR:OH	2.17	0.45
5:E:110:LYS:HG3	6:F:10:GLN:OE1	2.15	0.45
5:E:256:PRO:HG2	5:E:259:ASN:HB3	1.98	0.45
10:J:74:PRO:CG	12:L:102:ARG:CD	2.60	0.45
12:L:16:LEU:HD11	12:L:35:ILE:HG21	1.98	0.45
13:M:53:TRP:CZ3	13:M:86:LYS:HD2	2.51	0.45
15:O:30:TYR:CE1	15:O:34:ILE:HG13	2.51	0.45
15:O:76:VAL:N	15:O:77:PRO:CD	2.80	0.45
1:A:674:LEU:C	1:A:674:LEU:CD1	2.89	0.44
1:A:1009:THR:HB	1:A:1074:MET:CG	2.42	0.44
1:A:1157:GLN:CG	1:A:1180:ARG:HH22	2.07	0.44
1:A:3124:ILE:HD11	1:A:3429:TRP:NE1	2.32	0.44
1:A:3131:ILE:HG12	1:A:3422:LEU:CD1	2.47	0.44
1:A:3230:LEU:CA	1:A:3233:ILE:HG22	2.46	0.44
2:B:419:PHE:CB	2:B:480:ILE:HD12	2.35	0.44
2:B:500:GLU:OE1	2:B:535:ILE:CG1	2.60	0.44
2:B:729:LEU:HB3	2:B:734:GLU:OE2	2.16	0.44
2:B:1571:GLU:HA	2:B:1571:GLU:OE2	2.17	0.44
2:B:2267:ILE:HD12	2:B:2311:ALA:HB2	1.99	0.44
2:B:4041:LEU:HB3	2:B:4044:ILE:HD11	2.00	0.44
3:C:155:GLU:C	3:C:155:GLU:CD	2.85	0.44
3:C:288:VAL:C	3:C:320:PRO:HB3	2.42	0.44
3:C:2532:GLU:N	3:C:2533:PRO:HD2	2.32	0.44
3:C:2593:ARG:CZ	3:C:2921:LEU:HD21	2.47	0.44
3:C:2743:ASN:OD1	3:C:2786:ASN:OD1	2.35	0.44
4:D:397:ASP:CB	4:D:398:PRO:CD	2.85	0.44
5:E:394:TRP:NE1	5:E:401:PRO:CD	2.80	0.44
5:E:448:PHE:HE1	5:E:450:HIS:HB2	1.83	0.44
5:E:497:MET:CE	5:E:501:GLU:HB2	2.47	0.44
5:E:498:GLN:HB3	5:E:499:PRO:HD2	1.99	0.44
6:F:19:GLY:O	6:F:102:LEU:N	2.48	0.44
6:F:61:LYS:NZ	8:H:33:ASP:O	2.49	0.44
8:H:19:GLU:C	8:H:19:GLU:CD	2.85	0.44
12:L:73:GLU:HB3	13:M:66:ILE:CD1	2.23	0.44
1:A:729:GLU:OE1	1:A:781:LEU:HD13	2.17	0.44
1:A:821:LEU:O	1:A:912:ARG:CZ	2.66	0.44
1:A:1012:LYS:CB	1:A:1071:ILE:HD12	2.39	0.44
1:A:1016:PHE:CD2	1:A:1069:TYR:CD1	3.06	0.44
1:A:1183:LEU:C	1:A:1183:LEU:CD2	2.85	0.44
1:A:1425:LYS:O	1:A:1429:ILE:HG13	2.17	0.44
1:A:1436:ILE:HG22	1:A:1440:TRP:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1727:LEU:HD11	1:A:1788:GLN:HE21	1.82	0.44
1:A:3538:GLN:HA	1:A:3541:ILE:HG22	1.99	0.44
1:A:3921:ILE:HG23	1:A:3922:PRO:HD2	1.99	0.44
2:B:658:GLN:HG2	2:B:673:PHE:CA	2.47	0.44
2:B:704:LYS:O	2:B:708:TYR:CD2	2.70	0.44
2:B:953:GLY:HA2	3:C:282:ARG:NH2	2.33	0.44
2:B:1330:TRP:C	2:B:1409:SER:O	2.60	0.44
2:B:2413:LEU:O	2:B:2417:LEU:N	2.51	0.44
2:B:3785:ALA:HB2	2:B:3807:THR:HG21	1.99	0.44
3:C:161:PHE:HD2	3:C:177:LEU:HB2	1.81	0.44
3:C:1174:LEU:CD1	3:C:1191:ILE:HG22	2.47	0.44
3:C:1466:SER:HB3	3:C:3629:LEU:HD13	2.00	0.44
3:C:2637:GLU:C	3:C:2640:ALA:CB	2.81	0.44
3:C:3014:PRO:CD	3:C:3125:THR:HG22	2.47	0.44
4:D:312:PHE:CD1	4:D:312:PHE:O	2.70	0.44
4:D:517:ILE:HD11	4:D:550:TRP:HZ2	1.74	0.44
5:E:433:TRP:NE1	5:E:451:LYS:HD3	2.32	0.44
8:H:91:THR:OG1	9:I:76:GLN:NE2	2.44	0.44
10:J:79:PHE:CG	11:K:68:ALA:HB2	2.52	0.44
15:O:31:PRO:CD	15:O:109:ASN:ND2	2.80	0.44
15:O:121:TYR:O	15:O:121:TYR:CD1	2.70	0.44
1:A:683:LYS:HZ1	1:A:741:ASN:HD22	1.66	0.44
1:A:879:LEU:HB2	1:A:882:GLU:CG	2.47	0.44
1:A:1026:LEU:C	1:A:1026:LEU:CD2	2.89	0.44
1:A:1205:GLN:NE2	4:D:166:PHE:HD2	0.37	0.44
1:A:1896:THR:HG21	1:A:1910:ILE:HD13	1.99	0.44
1:A:2030:LEU:HB2	1:A:2101:ILE:HD13	1.98	0.44
1:A:3999:THR:HG21	1:A:4044:GLN:HE21	1.83	0.44
2:B:177:PRO:O	2:B:197:GLU:CB	2.65	0.44
2:B:591:TRP:NE1	5:E:411:TYR:OH	2.51	0.44
2:B:736:LEU:HG	2:B:855:SER:C	2.43	0.44
2:B:1563:VAL:C	2:B:1565:ALA:N	2.76	0.44
2:B:1599:LEU:HD22	2:B:1617:LEU:CD2	2.47	0.44
3:C:216:ILE:O	3:C:216:ILE:HG13	2.16	0.44
3:C:318:PRO:HB3	3:C:350:TRP:CD2	2.52	0.44
3:C:2593:ARG:NH2	3:C:2597:GLU:CB	2.80	0.44
3:C:2784:ASN:CA	3:C:2787:ILE:HG22	2.47	0.44
3:C:2824:TYR:HA	3:C:2827:ILE:HB	1.98	0.44
3:C:2917:LEU:HD23	3:C:2920:GLN:OE1	2.16	0.44
3:C:2927:ASP:OD2	3:C:2974:ILE:CD1	2.65	0.44
4:D:111:MET:CE	15:O:90:ILE:CB	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:294:GLN:CD	4:D:297:LYS:CE	2.77	0.44
4:D:329:ILE:CD1	4:D:350:VAL:HG21	2.44	0.44
4:D:501:LEU:HD12	4:D:522:ASP:CA	2.47	0.44
7:G:99:ILE:HG23	7:G:103:ILE:CD1	2.48	0.44
9:I:85:TYR:O	9:I:85:TYR:CD1	2.70	0.44
15:O:61:GLU:CD	15:O:61:GLU:C	2.85	0.44
16:P:15:SER:CA	16:P:16:GLU:N	2.71	0.44
1:A:944:LEU:HD13	1:A:1013:VAL:HG11	1.97	0.44
1:A:1070:LYS:HG2	1:A:1075:GLU:HG2	2.00	0.44
1:A:1088:TRP:CD2	1:A:1092:TRP:NE1	2.77	0.44
1:A:3261:LYS:CG	1:A:3262:GLU:N	2.69	0.44
1:A:3293:PHE:HZ	1:A:3335:TRP:HH2	1.61	0.44
1:A:3300:GLU:HA	17:Q:76:ILE:CB	2.45	0.44
2:B:433:ILE:HG23	2:B:463:PHE:CE2	2.36	0.44
2:B:581:ASN:HD21	5:E:184:MET:HE1	1.78	0.44
2:B:965:ILE:N	2:B:965:ILE:CD1	2.81	0.44
2:B:1458:PHE:HD1	2:B:1560:MET:CE	2.19	0.44
2:B:2961:PRO:HA	2:B:2971:ILE:HD12	1.99	0.44
2:B:3140:LEU:HD12	2:B:3433:TRP:HB3	1.99	0.44
2:B:3499:THR:HG21	2:B:3507:TRP:HH2	1.82	0.44
2:B:3947:ARG:NH1	2:B:3957:VAL:HG11	2.32	0.44
3:C:10:LEU:CD1	3:C:67:CYS:HB3	2.47	0.44
3:C:2416:LEU:HD23	3:C:2417:PHE:N	2.32	0.44
3:C:2721:GLU:HA	3:C:2798:PHE:HZ	1.81	0.44
3:C:2934:PHE:CE2	3:C:3001:ILE:CG1	3.00	0.44
4:D:195:ILE:HG21	9:I:94:LEU:HD21	1.92	0.44
4:D:332:TYR:CZ	4:D:340:PRO:HG3	2.53	0.44
4:D:567:GLN:HB3	4:D:578:LYS:CD	2.29	0.44
4:D:595:PHE:CE1	4:D:602:LEU:HD21	2.43	0.44
5:E:74:SER:OG	9:I:56:ILE:HB	2.16	0.44
5:E:129:LEU:HD12	6:F:80:ARG:NE	2.32	0.44
6:F:65:ARG:HH11	6:F:65:ARG:HG3	1.82	0.44
7:G:123:LEU:HD23	7:G:123:LEU:HA	1.74	0.44
8:H:11:ILE:HD12	8:H:14:SER:HB3	2.00	0.44
9:I:50:SER:HA	9:I:54:LEU:HD12	2.00	0.44
14:N:82:SER:OG	15:O:57:ASN:CG	2.60	0.44
1:A:57:TYR:CB	1:A:103:ASP:HA	2.48	0.44
1:A:634:ILE:CG2	1:A:638:TYR:CE1	2.91	0.44
1:A:758:ASP:HA	1:A:761:LEU:HB3	2.00	0.44
1:A:802:ILE:HA	1:A:806:ILE:HG22	1.98	0.44
1:A:1539:LYS:HE2	2:B:3859:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2171:THR:HG21	1:A:2183:ILE:CG2	2.48	0.44
1:A:4082:PHE:CG	1:A:4083:PRO:HD2	2.52	0.44
2:B:514:TYR:CE2	2:B:523:LEU:HB2	2.51	0.44
2:B:515:ASP:HA	2:B:520:ARG:NH2	2.32	0.44
2:B:1606:PHE:HB3	2:B:1609:PHE:CD2	2.53	0.44
2:B:2260:TRP:HB3	2:B:2300:ARG:HB2	2.00	0.44
2:B:3267:ILE:CG2	2:B:3267:ILE:O	2.66	0.44
2:B:3342:ASN:O	2:B:3346:PHE:CA	2.62	0.44
2:B:3606:GLN:HE21	2:B:3613:PRO:HB2	1.82	0.44
3:C:2600:LYS:HZ3	3:C:2918:GLU:N	2.15	0.44
3:C:2607:LEU:HD22	3:C:2914:ILE:HD12	2.00	0.44
3:C:2664:ASP:O	3:C:2668:LEU:HG	2.18	0.44
3:C:2727:ILE:HD12	3:C:2727:ILE:HA	1.97	0.44
3:C:3034:LEU:HB3	3:C:3041:ILE:HG22	2.00	0.44
4:D:288:ARG:NE	4:D:610:GLY:HA3	2.32	0.44
5:E:291:TRP:CH2	5:E:300:PRO:HD3	2.52	0.44
6:F:81:THR:HA	7:G:124:VAL:H	1.82	0.44
9:I:81:GLU:CD	9:I:102:ASN:CB	2.78	0.44
10:J:38:GLU:CD	15:O:29:PHE:CD2	2.49	0.44
12:L:73:GLU:CB	13:M:66:ILE:CD1	2.78	0.44
12:L:74:TRP:CD2	12:L:109:LYS:HD2	2.48	0.44
12:L:86:LEU:CD1	13:M:54:ASN:HB3	2.36	0.44
13:M:64:HIS:CG	13:M:64:HIS:O	2.70	0.44
14:N:72:ILE:CG1	15:O:97:ILE:HG12	2.46	0.44
1:A:576:TYR:CD1	1:A:620:PRO:C	2.86	0.44
1:A:907:ASN:C	1:A:911:TYR:HD2	2.23	0.44
1:A:952:GLN:NE2	1:A:1010:LYS:HZ1	2.16	0.44
1:A:1417:GLU:O	1:A:1421:GLU:CB	2.66	0.44
1:A:1591:TYR:CD2	1:A:1591:TYR:C	2.95	0.44
1:A:2786:CYS:HB3	1:A:2850:LEU:HD22	1.98	0.44
1:A:3853:GLY:HA3	1:A:3879:ALA:HB2	2.00	0.44
2:B:601:GLU:HB2	2:B:602:PRO:HD3	2.00	0.44
2:B:798:ASN:OD1	2:B:799:VAL:N	2.51	0.44
2:B:864:ASN:CB	2:B:947:LEU:HB2	2.33	0.44
2:B:986:PHE:HA	2:B:989:ARG:NE	2.32	0.44
2:B:1603:LYS:HD3	2:B:1610:TYR:CD1	2.52	0.44
2:B:3267:ILE:CG2	2:B:3271:ASP:CB	2.93	0.44
3:C:264:TRP:HB2	3:C:296:ILE:HD12	1.99	0.44
3:C:294:LEU:HB2	3:C:301:TRP:CE3	2.52	0.44
3:C:1281:MET:HE1	3:C:1328:LEU:HD23	2.00	0.44
3:C:2177:ILE:CG2	3:C:2233:PRO:HA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2589:LEU:HD11	3:C:2925:VAL:HG22	2.00	0.44
3:C:3588:VAL:O	3:C:3588:VAL:HG12	2.18	0.44
4:D:79:ASN:ND2	15:O:103:TRP:CH2	2.85	0.44
8:H:84:LEU:N	8:H:84:LEU:CD1	2.80	0.44
12:L:70:GLY:N	12:L:109:LYS:NZ	2.65	0.44
12:L:77:ILE:HG13	13:M:63:SER:OG	2.18	0.44
13:M:44:GLU:HA	13:M:47:LYS:NZ	2.33	0.44
15:O:91:LYS:NZ	15:O:91:LYS:CB	2.76	0.44
1:A:739:ARG:HE	1:A:743:LYS:HE3	1.82	0.44
1:A:769:THR:O	1:A:769:THR:HG22	2.18	0.44
1:A:894:PHE:CG	1:A:972:TRP:CH2	3.06	0.44
1:A:1013:VAL:CG1	1:A:1076:LEU:CD2	2.95	0.44
1:A:1033:GLU:HB3	1:A:1037:LYS:HE3	2.00	0.44
1:A:1048:TYR:HE1	1:A:1100:LEU:HB2	1.79	0.44
1:A:1452:LYS:HG3	1:A:1458:MET:O	2.18	0.44
1:A:3212:VAL:CG1	1:A:3335:TRP:CE2	3.01	0.44
2:B:902:ILE:HG23	2:B:915:PRO:CD	2.48	0.44
2:B:946:ARG:CA	2:B:955:PHE:CZ	2.81	0.44
2:B:956:LEU:HA	2:B:959:ILE:HG13	1.99	0.44
2:B:2441:LEU:O	2:B:2445:GLY:N	2.50	0.44
2:B:2591:ASN:HD22	2:B:2644:PHE:HB2	1.83	0.44
2:B:3144:ALA:HA	2:B:3430:ASN:HD21	1.83	0.44
2:B:3528:CYS:SG	2:B:3642:THR:HG21	2.57	0.44
2:B:3901:TRP:CZ2	2:B:3907:PRO:HB2	2.52	0.44
3:C:872:ARG:NH2	3:C:896:LYS:HA	2.33	0.44
3:C:2213:ARG:NH2	19:C:4305:ADP:PB	2.89	0.44
3:C:2923:LEU:HB3	3:C:2966:SER:OG	2.17	0.44
4:D:537:ILE:HD11	4:D:651:LYS:CD	2.48	0.44
5:E:71:ARG:O	8:H:68:PHE:HA	2.18	0.44
5:E:457:LEU:N	5:E:457:LEU:CD1	2.80	0.44
6:F:23:TYR:CD1	6:F:23:TYR:O	2.70	0.44
10:J:40:ALA:HB1	10:J:68:MET:HE1	1.99	0.44
14:N:78:HIS:O	14:N:78:HIS:CG	2.70	0.44
1:A:764:ARG:N	1:A:765:PRO:HD2	2.32	0.44
1:A:1478:LEU:HB3	1:A:1494:VAL:HG13	2.00	0.44
1:A:2745:LEU:HD11	1:A:2754:VAL:HG21	1.99	0.44
1:A:2938:ILE:HD12	1:A:2999:LEU:HD21	1.99	0.44
1:A:3273:TYR:CD1	1:A:3276:SER:CA	3.01	0.44
1:A:4046:CYS:HB2	1:A:4076:CYS:HB3	1.99	0.44
2:B:500:GLU:HB3	2:B:532:THR:HG21	2.00	0.44
2:B:555:LEU:HD21	2:B:626:TYR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:598:ARG:NH1	5:E:389:TRP:NE1	2.66	0.44
2:B:613:ILE:C	2:B:613:ILE:HD12	2.42	0.44
2:B:801:ILE:HG22	2:B:802:ILE:HG13	2.00	0.44
2:B:993:TYR:CZ	2:B:1067:ILE:HG21	2.52	0.44
2:B:1681:ALA:HB3	2:B:1684:HIS:HB3	1.99	0.44
2:B:2731:SER:OG	2:B:2732:ALA:N	2.50	0.44
3:C:327:PHE:CE2	3:C:336:ILE:HB	2.52	0.44
3:C:379:LYS:CA	3:C:418:CYS:O	2.66	0.44
3:C:1738:PHE:CD2	3:C:1770:MET:HE1	2.52	0.44
3:C:2207:HIS:CE1	3:C:2514:TRP:CZ3	3.06	0.44
3:C:2556:VAL:HG11	3:C:2937:TYR:CD1	2.53	0.44
3:C:2705:ASP:OD2	3:C:2758:MET:HE2	2.18	0.44
3:C:2830:VAL:CG1	3:C:2834:ARG:CD	2.96	0.44
3:C:2835:LYS:O	3:C:2839:GLU:HG3	2.17	0.44
3:C:3499:ALA:HB1	3:C:3502:ALA:HB3	1.99	0.44
3:C:3600:MET:HB3	3:C:3630:MET:CE	2.48	0.44
4:D:180:ILE:C	4:D:180:ILE:CD1	2.85	0.44
4:D:251:MET:CB	7:G:136:MET:HE2	2.20	0.44
5:E:14:PHE:CD1	5:E:14:PHE:O	2.70	0.44
5:E:162:ARG:HH12	5:E:196:GLN:H	1.66	0.44
5:E:325:ASN:CB	5:E:375:ARG:HD2	2.48	0.44
6:F:26:PHE:CE1	6:F:48:ILE:HG23	2.53	0.44
10:J:28:TRP:CE3	10:J:28:TRP:O	2.70	0.44
1:A:948:LEU:CB	1:A:1010:LYS:HD2	2.47	0.44
1:A:1052:LEU:HB3	1:A:1166:TYR:CZ	2.46	0.44
1:A:1441:ASN:CA	1:A:1562:ILE:HD11	2.48	0.44
1:A:2866:VAL:HG11	1:A:3026:TRP:CH2	2.53	0.44
1:A:3102:LEU:HD23	1:A:3451:THR:HG23	2.00	0.44
1:A:3284:MET:N	1:A:3284:MET:SD	2.90	0.44
2:B:725:ILE:CD1	2:B:780:VAL:HB	2.47	0.44
2:B:1317:LEU:HA	16:P:61:GLU:CA	2.20	0.44
3:C:142:ALA:N	3:C:143:PRO:CD	2.81	0.44
3:C:161:PHE:O	3:C:161:PHE:CD1	2.70	0.44
3:C:259:PRO:HB3	3:C:264:TRP:CH2	2.53	0.44
3:C:2721:GLU:CA	3:C:2798:PHE:CE1	2.99	0.44
4:D:107:VAL:CA	15:O:98:ALA:HA	2.33	0.44
4:D:303:CYS:HB2	4:D:353:LEU:HD22	2.00	0.44
4:D:303:CYS:HB2	4:D:353:LEU:CD2	2.48	0.44
4:D:526:ARG:CB	4:D:528:TRP:CZ2	2.97	0.44
4:D:621:CYS:SG	4:D:622:LYS:N	2.90	0.44
5:E:418:SER:HB2	5:E:426:PHE:CE1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:15:SER:H	16:P:18:HIS:CB	2.31	0.44
1:A:98:ILE:HA	1:A:121:GLY:HA2	1.99	0.43
1:A:971:ASN:CB	1:A:983:ALA:CA	2.86	0.43
1:A:1430:ARG:HG3	1:A:1490:PHE:CE2	2.53	0.43
1:A:1639:PHE:CD1	1:A:1653:ILE:HG12	2.53	0.43
1:A:3546:SER:HA	1:A:3549:ILE:HG22	2.00	0.43
2:B:145:LEU:C	2:B:147:ALA:N	2.76	0.43
2:B:555:LEU:HD21	2:B:625:LEU:C	2.43	0.43
2:B:555:LEU:HG	2:B:625:LEU:HD21	2.00	0.43
2:B:702:TYR:O	2:B:705:ALA:HB3	2.17	0.43
2:B:952:PRO:CG	3:C:223:THR:HA	0.31	0.43
2:B:1936:MET:HG2	2:B:1966:VAL:HG22	2.00	0.43
2:B:2150:THR:HG22	2:B:2203:ASN:HD22	1.83	0.43
3:C:159:TYR:N	3:C:159:TYR:CD2	2.86	0.43
3:C:1438:MET:HE1	3:C:1454:PHE:CE2	2.52	0.43
4:D:66:LEU:CB	4:D:70:MET:HB2	2.46	0.43
4:D:78:LYS:HB2	4:D:104:GLN:CD	2.43	0.43
5:E:74:SER:HB2	9:I:56:ILE:HB	2.00	0.43
5:E:150:LEU:HD11	5:E:475:LEU:HD22	1.99	0.43
5:E:156:GLU:HG3	5:E:157:LYS:HG2	2.00	0.43
5:E:386:VAL:HG21	5:E:415:GLY:CA	2.48	0.43
6:F:102:LEU:HB3	6:F:106:ALA:HB3	2.00	0.43
8:H:12:LYS:HE2	8:H:80:TYR:CE2	2.53	0.43
9:I:24:ILE:HG23	9:I:98:PHE:HD1	1.77	0.43
12:L:67:PHE:CD2	12:L:67:PHE:O	2.70	0.43
14:N:84:GLN:OE1	14:N:84:GLN:HA	2.18	0.43
15:O:30:TYR:CD2	15:O:30:TYR:O	2.70	0.43
1:A:945:ASN:HB3	1:A:950:GLU:OE2	2.19	0.43
1:A:1548:TRP:CD1	1:A:1548:TRP:O	2.70	0.43
1:A:3270:LYS:H	17:Q:60:ASN:HA	1.18	0.43
1:A:3533:PRO:CD	1:A:3648:THR:HG22	2.49	0.43
2:B:854:ASN:O	3:C:168:ASN:HB3	2.18	0.43
2:B:1001:GLU:O	2:B:1094:TRP:HZ2	2.01	0.43
2:B:1058:LYS:HD3	2:B:1166:GLU:O	2.05	0.43
2:B:3067:ILE:HD13	2:B:3119:LYS:HG3	1.99	0.43
2:B:3327:ALA:CA	2:B:3334:SER:HB2	2.48	0.43
2:B:4187:ILE:HD12	2:B:4213:PHE:CE1	2.53	0.43
3:C:124:PRO:HB3	3:C:185:PHE:CE1	2.53	0.43
3:C:172:LEU:CD1	3:C:173:ALA:O	2.66	0.43
3:C:968:MET:HB2	3:C:1026:PHE:CZ	2.53	0.43
3:C:2745:LYS:CG	3:C:2745:LYS:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2814:CYS:O	3:C:2818:VAL:HG23	2.18	0.43
3:C:2846:GLU:O	3:C:2850:LYS:HG3	2.18	0.43
4:D:87:THR:HG22	4:D:98:THR:HA	2.01	0.43
4:D:257:GLN:OE1	4:D:257:GLN:HA	2.18	0.43
5:E:80:TRP:CZ3	5:E:84:VAL:HG11	2.52	0.43
5:E:105:PHE:O	5:E:105:PHE:CD1	2.72	0.43
5:E:117:GLU:HG2	5:E:121:TYR:CE2	2.53	0.43
5:E:428:VAL:O	5:E:428:VAL:HG23	2.18	0.43
5:E:508:MET:HE2	5:E:508:MET:HB3	1.92	0.43
8:H:81:VAL:O	8:H:81:VAL:HG13	2.18	0.43
1:A:326:PRO:C	1:A:376:ASN:CB	2.92	0.43
1:A:644:LEU:HD23	1:A:647:GLN:CD	2.44	0.43
1:A:655:PHE:CZ	1:A:659:TRP:CD1	3.06	0.43
1:A:1041:ASN:HB3	1:A:1047:ASN:ND2	2.34	0.43
1:A:1048:TYR:HD1	1:A:1100:LEU:CD1	2.27	0.43
1:A:1100:LEU:HD22	1:A:1163:LEU:CB	2.46	0.43
1:A:1550:LYS:HB3	1:A:1554:LYS:HZ1	1.83	0.43
1:A:1562:ILE:HB	1:A:1563:PRO:CD	2.39	0.43
1:A:1597:LYS:HG2	1:A:1916:GLN:HE22	1.83	0.43
1:A:1633:ALA:HB3	1:A:1839:LEU:C	2.43	0.43
1:A:2367:CYS:HB3	1:A:2386:PHE:CD1	2.53	0.43
1:A:3249:ILE:CD1	1:A:3274:ASP:N	2.63	0.43
1:A:3991:LEU:HB2	1:A:4094:THR:HG22	2.00	0.43
2:B:725:ILE:HD12	2:B:780:VAL:CB	2.49	0.43
2:B:830:LYS:HA	2:B:943:THR:HB	2.00	0.43
2:B:963:PHE:CZ	3:C:39:LEU:CB	3.01	0.43
2:B:1075:TRP:CE3	2:B:1076:LEU:HB3	2.53	0.43
2:B:1101:PHE:CD1	2:B:1102:LEU:HG	2.53	0.43
2:B:1140:LEU:HD21	2:B:1201:TYR:OH	2.18	0.43
2:B:1595:LEU:C	2:B:1595:LEU:CD2	2.90	0.43
2:B:3269:LEU:CD1	2:B:3269:LEU:N	2.81	0.43
2:B:4230:ILE:HG23	2:B:4233:LYS:HB2	2.01	0.43
3:C:380:VAL:N	3:C:418:CYS:O	2.51	0.43
5:E:64:GLU:CD	10:J:18:TYR:OH	2.61	0.43
5:E:70:ASP:HB3	8:H:68:PHE:HE1	1.83	0.43
5:E:274:LYS:HG3	5:E:278:GLU:CD	2.42	0.43
6:F:35:ARG:NE	6:F:41:SER:CB	2.67	0.43
7:G:112:SER:HA	7:G:115:ARG:HB2	2.01	0.43
8:H:64:ASN:C	9:I:81:GLU:H	2.26	0.43
11:K:76:ASN:HB3	11:K:91:ARG:HB3	2.00	0.43
1:A:53:ILE:C	1:A:54:PHE:C	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:VAL:CG2	4:D:477:GLU:HG2	2.47	0.43
1:A:869:TYR:CD2	1:A:871:LEU:HB3	2.53	0.43
1:A:1276:GLN:CD	4:D:153:HIS:CG	2.96	0.43
1:A:2162:GLY:HA2	20:A:4702:ATP:PA	2.58	0.43
1:A:3106:LYS:HB3	1:A:3443:LEU:HD21	1.97	0.43
1:A:3114:GLU:HB2	1:A:3436:ILE:HG21	2.00	0.43
1:A:3670:LEU:HD23	1:A:3670:LEU:C	2.43	0.43
2:B:444:LEU:HD13	2:B:523:LEU:HG	2.00	0.43
2:B:744:MET:HE1	2:B:772:ILE:HG13	1.93	0.43
2:B:966:LYS:HB3	3:C:344:ASN:C	2.42	0.43
2:B:1154:GLU:N	2:B:1155:PRO:HD2	2.33	0.43
2:B:1238:LYS:CE	2:B:1308:LEU:CB	2.71	0.43
2:B:3238:HIS:HE1	2:B:3335:LYS:HE3	1.83	0.43
2:B:4017:LEU:HD12	2:B:4044:ILE:HA	2.01	0.43
2:B:4188:TYR:CD1	2:B:4188:TYR:C	2.96	0.43
3:C:106:LEU:CD2	3:C:133:PRO:HB2	2.49	0.43
3:C:197:PRO:HB2	3:C:200:ARG:NH1	2.34	0.43
3:C:287:PHE:HE1	3:C:322:GLU:HB2	1.83	0.43
3:C:757:GLU:HA	3:C:827:ILE:CD1	2.48	0.43
4:D:246:LYS:HE2	4:D:250:ARG:NH2	2.32	0.43
4:D:603:LEU:HD22	4:D:611:VAL:CG1	2.48	0.43
5:E:150:LEU:HB3	5:E:151:MET:HE3	2.00	0.43
6:F:62:VAL:HG11	7:G:106:LEU:CD1	2.48	0.43
8:H:66:GLY:H	9:I:79:ILE:C	2.11	0.43
8:H:89:PHE:CD2	9:I:76:GLN:OE1	2.70	0.43
10:J:28:TRP:N	10:J:29:PRO:CD	2.81	0.43
10:J:84:PHE:HB2	11:K:63:GLY:HA3	2.01	0.43
1:A:1020:PHE:HA	1:A:1023:PHE:CZ	2.40	0.43
1:A:3255:GLU:CD	17:Q:37:PRO:CB	2.85	0.43
1:A:3285:ASN:OD1	1:A:3288:LYS:HD2	2.18	0.43
2:B:225:PRO:CB	2:B:298:LEU:CB	2.96	0.43
2:B:516:THR:CG2	5:E:406:LYS:HA	2.46	0.43
2:B:579:PHE:HA	5:E:430:ARG:HH12	1.83	0.43
2:B:913:PHE:HE1	2:B:987:ARG:CZ	2.31	0.43
2:B:2188:SER:O	20:B:5403:ATP:PB	2.76	0.43
2:B:2870:GLU:O	2:B:2873:SER:OG	2.34	0.43
3:C:22:SER:HB3	3:C:341:TRP:HB3	2.01	0.43
3:C:90:ILE:CD1	3:C:96:LEU:HD23	2.48	0.43
3:C:111:THR:HG21	3:C:187:TRP:CH2	2.52	0.43
3:C:319:ARG:HB2	3:C:321:ARG:HE	1.83	0.43
3:C:859:ILE:CB	3:C:864:MET:SD	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2701:ILE:HG13	3:C:2704:LYS:HG3	2.00	0.43
3:C:2721:GLU:HG2	3:C:2814:CYS:SG	2.58	0.43
3:C:2740:ILE:HG21	3:C:2744:LYS:CD	2.48	0.43
3:C:2747:LYS:HG2	3:C:2748:ASP:H	1.83	0.43
4:D:164:ASN:N	4:D:167:ASN:HB3	2.33	0.43
4:D:286:ILE:CG2	4:D:287:TRP:CZ3	3.01	0.43
4:D:531:LYS:NZ	4:D:532:TYR:CE1	2.84	0.43
5:E:240:LEU:HD23	5:E:240:LEU:HA	1.87	0.43
5:E:426:PHE:HD2	5:E:436:VAL:HG22	1.83	0.43
11:K:28:GLN:HG3	11:K:49:PHE:CD1	2.53	0.43
17:Q:139:LYS:C	17:Q:141:LEU:N	2.76	0.43
1:A:688:PHE:HB3	1:A:727:TYR:CE2	2.54	0.43
1:A:732:TYR:HB2	4:D:390:VAL:CA	2.48	0.43
1:A:1458:MET:SD	1:A:1552:MET:HB2	2.58	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:CG2	2.48	0.43
1:A:1926:PHE:CE2	1:A:1934:LEU:HD22	2.54	0.43
1:A:2311:ARG:NH1	1:A:2319:GLU:OE1	2.51	0.43
1:A:2839:LEU:HD13	19:A:4703:ADP:C4	2.52	0.43
1:A:4042:ILE:HD12	1:A:4042:ILE:N	2.33	0.43
1:A:4053:MET:HA	1:A:4056:ILE:HG22	2.00	0.43
2:B:443:GLU:CD	5:E:514:ARG:HH11	2.11	0.43
2:B:939:ASN:O	2:B:939:ASN:ND2	2.51	0.43
2:B:1145:LYS:O	2:B:1149:ASP:N	2.44	0.43
2:B:3765:SER:HB2	2:B:3772:GLN:HA	2.00	0.43
2:B:3774:SER:HB3	2:B:4090:ASP:HB3	1.99	0.43
3:C:359:GLY:HA3	3:C:440:TYR:CB	2.48	0.43
3:C:2677:LYS:CB	3:C:2841:THR:CG2	2.97	0.43
3:C:2923:LEU:HG	3:C:2966:SER:N	2.34	0.43
4:D:91:TYR:CE2	13:M:80:LEU:HB3	2.41	0.43
4:D:184:GLY:HA3	11:K:69:TYR:CE1	2.53	0.43
4:D:190:PRO:HA	4:D:191:PRO:HD3	1.93	0.43
4:D:201:GLN:OE1	9:I:102:ASN:HB2	2.13	0.43
4:D:265:ARG:HD3	5:E:125:GLN:CA	2.49	0.43
4:D:439:ILE:HG12	4:D:472:PHE:HZ	1.83	0.43
5:E:20:PHE:CG	5:E:20:PHE:O	2.70	0.43
5:E:439:TYR:CD1	5:E:443:GLN:HA	2.54	0.43
9:I:43:GLN:HE21	9:I:97:MET:HE1	1.84	0.43
9:I:70:LYS:HB3	9:I:71:PHE:CD1	2.53	0.43
12:L:49:LEU:N	12:L:49:LEU:CD2	2.79	0.43
1:A:402:PRO:CA	1:A:467:ILE:O	2.62	0.43
1:A:597:VAL:HB	4:D:477:GLU:CG	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:604:ALA:HB2	1:A:698:GLU:HB3	2.01	0.43
1:A:612:HIS:CE1	4:D:500:LEU:HD23	2.53	0.43
1:A:730:LEU:HD23	1:A:781:LEU:HD22	2.00	0.43
1:A:761:LEU:HD12	1:A:872:ASP:OD2	2.17	0.43
1:A:797:ASN:OD1	5:E:450:HIS:CD2	2.72	0.43
1:A:1101:HIS:CD2	1:A:1101:HIS:C	2.96	0.43
1:A:1639:PHE:CE1	1:A:1653:ILE:CG1	2.98	0.43
1:A:2357:VAL:HA	1:A:2360:ILE:HD12	2.00	0.43
1:A:3117:PHE:CG	1:A:3429:TRP:CZ3	3.03	0.43
1:A:3304:GLU:CB	17:Q:77:LEU:C	2.64	0.43
1:A:3824:ILE:HD13	1:A:3952:LEU:HG	2.00	0.43
2:B:520:ARG:HD3	2:B:547:LEU:CD2	2.49	0.43
2:B:946:ARG:HA	2:B:955:PHE:HZ	1.70	0.43
2:B:963:PHE:CE1	3:C:39:LEU:CA	2.94	0.43
2:B:2214:ASN:HD21	2:B:2622:GLN:HB3	1.83	0.43
2:B:3080:LEU:HD13	2:B:3080:LEU:C	2.44	0.43
2:B:3236:LYS:N	2:B:3237:PRO:CD	2.82	0.43
3:C:34:ILE:HD12	3:C:95:MET:HE1	2.01	0.43
3:C:50:LYS:HG2	3:C:103:THR:HB	2.01	0.43
3:C:2701:ILE:HG13	3:C:2704:LYS:CB	2.48	0.43
4:D:94:ARG:HG3	4:D:94:ARG:O	2.18	0.43
4:D:107:VAL:O	4:D:107:VAL:HG13	2.17	0.43
4:D:462:PHE:HA	4:D:474:VAL:HA	2.01	0.43
5:E:26:ARG:HD2	14:N:97:LEU:HD23	2.00	0.43
5:E:435:ASP:HB2	5:E:446:ILE:CG2	2.47	0.43
8:H:54:HIS:NE2	18:R:62:LYS:CA	2.57	0.43
10:J:48:LEU:HD22	10:J:53:ILE:CG1	2.43	0.43
14:N:68:CYS:HB2	14:N:113:PHE:HB2	2.00	0.43
1:A:22:GLN:C	1:A:25:ASP:N	2.76	0.43
1:A:1126:VAL:HG11	1:A:1201:TYR:HE1	1.81	0.43
1:A:1514:VAL:HG13	1:A:1581:LEU:CD1	2.49	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:HG22	2.00	0.43
1:A:1862:MET:HE1	1:A:1920:TRP:CZ2	2.53	0.43
1:A:2013:ALA:HB2	1:A:2020:ILE:HD13	2.00	0.43
1:A:2723:ILE:HG21	1:A:2776:LYS:HE2	2.00	0.43
1:A:2925:THR:HG22	1:A:3000:CYS:HB2	2.00	0.43
1:A:3110:LEU:HD13	1:A:3440:LYS:HA	2.00	0.43
1:A:3350:LYS:CB	1:A:3351:PRO:CD	2.92	0.43
1:A:4056:ILE:CD1	1:A:4072:LEU:HD21	2.44	0.43
1:A:4534:CYS:SG	1:A:4535:LYS:N	2.92	0.43
2:B:511:PHE:HE2	2:B:547:LEU:CG	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1087:LEU:HD23	2:B:1087:LEU:HA	1.90	0.43
2:B:2269:PRO:HD2	2:B:2615:TYR:CE1	2.54	0.43
3:C:94:LYS:HG2	3:C:115:LYS:HE2	2.01	0.43
3:C:161:PHE:O	3:C:161:PHE:CG	2.70	0.43
3:C:294:LEU:C	3:C:294:LEU:CD2	2.85	0.43
3:C:1307:LEU:HD13	3:C:1307:LEU:C	2.44	0.43
3:C:2368:SER:HB3	19:C:4306:ADP:H4'	1.97	0.43
3:C:2715:PRO:O	3:C:2719:VAL:HG12	2.19	0.43
4:D:251:MET:HB2	7:G:136:MET:HE2	1.90	0.43
5:E:26:ARG:O	14:N:98:ILE:HD12	2.18	0.43
5:E:261:HIS:NE2	5:E:265:VAL:HG22	2.34	0.43
8:H:52:ARG:HA	18:R:63:ASN:HA	1.99	0.43
13:M:5:PRO:HG3	13:M:77:ILE:HG13	2.00	0.43
1:A:621:ILE:HD11	1:A:640:SER:HB2	2.01	0.43
1:A:1013:VAL:CA	1:A:1076:LEU:HD11	2.49	0.43
1:A:1223:VAL:HG11	1:A:1279:LYS:C	2.44	0.43
1:A:3124:ILE:CD1	1:A:3425:GLU:CG	2.92	0.43
1:A:3191:LYS:HD2	1:A:3360:GLU:HA	2.01	0.43
1:A:4336:ASN:HB2	1:A:4339:GLU:HB3	2.01	0.43
2:B:1212:ILE:HG22	2:B:1213:PRO:HD3	1.97	0.43
2:B:1467:PHE:HD1	2:B:1470:LEU:HD21	1.83	0.43
2:B:3080:LEU:HD12	2:B:3484:LYS:HE2	2.01	0.43
2:B:4546:PRO:HB2	2:B:4548:TYR:CE2	2.52	0.43
3:C:293:VAL:HG23	3:C:304:ILE:HB	2.01	0.43
3:C:341:TRP:HB2	3:C:345:TRP:NE1	2.32	0.43
3:C:1605:ARG:HB2	3:C:1636:ILE:HG21	2.01	0.43
3:C:2018:GLN:NE2	19:C:4305:ADP:C2'	2.54	0.43
3:C:2772:LYS:C	3:C:2772:LYS:CD	2.89	0.43
4:D:172:GLU:OE2	12:L:55:LEU:CG	2.66	0.43
4:D:191:PRO:O	9:I:91:ASN:CG	2.61	0.43
4:D:248:MET:SD	7:G:125:PHE:HE2	2.42	0.43
5:E:46:ASN:CB	12:L:90:ALA:HA	2.49	0.43
5:E:250:ASN:HB3	5:E:251:PRO:HD2	2.01	0.43
5:E:308:GLU:OE2	5:E:361:LEU:HD23	2.19	0.43
8:H:79:LEU:C	8:H:79:LEU:CD1	2.85	0.43
14:N:99:GLN:HA	14:N:99:GLN:OE1	2.19	0.43
15:O:52:ASP:H	15:O:53:PRO:CD	2.27	0.43
15:O:121:TYR:O	15:O:121:TYR:CG	2.70	0.43
1:A:330:GLY:O	1:A:380:ARG:HA	2.18	0.43
1:A:669:ALA:HB2	1:A:689:ASP:OD2	2.17	0.43
1:A:854:GLU:HG3	5:E:204:ASN:HA	1.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:VAL:CG1	1:A:1016:PHE:HE1	2.32	0.43
1:A:1142:ILE:HD13	1:A:1190:LEU:CD2	2.47	0.43
1:A:1586:LYS:HE2	1:A:1586:LYS:HB3	1.65	0.43
1:A:1637:VAL:HG13	1:A:1653:ILE:CG2	2.46	0.43
1:A:3222:GLU:HB2	1:A:3328:ALA:HB1	2.01	0.43
1:A:3279:GLN:OE1	1:A:3279:GLN:HA	2.19	0.43
1:A:3309:TYR:HA	17:Q:32:ILE:O	2.17	0.43
1:A:4215:LEU:C	1:A:4215:LEU:HD23	2.43	0.43
2:B:4:HIS:C	2:B:6:GLN:N	2.77	0.43
2:B:277:GLU:O	2:B:281:ALA:CB	2.67	0.43
2:B:744:MET:CE	2:B:772:ILE:C	2.89	0.43
2:B:956:LEU:O	2:B:960:ARG:HG3	2.19	0.43
2:B:1441:GLU:O	2:B:1445:LYS:HG3	2.19	0.43
2:B:2441:LEU:C	2:B:2441:LEU:HD13	2.43	0.43
2:B:3150:VAL:HA	2:B:3707:LEU:HD21	2.01	0.43
2:B:4187:ILE:O	2:B:4212:LEU:HD21	2.19	0.43
3:C:7:TRP:CE3	3:C:352:LEU:HB3	2.53	0.43
3:C:972:LEU:HD21	3:C:1017:MET:SD	2.59	0.43
3:C:2860:LYS:O	3:C:2864:GLU:HG3	2.19	0.43
3:C:4077:LEU:HD13	3:C:4105:MET:CG	2.49	0.43
4:D:89:TYR:CD2	11:K:56:PRO:HB3	2.53	0.43
4:D:474:VAL:HG13	4:D:474:VAL:O	2.19	0.43
5:E:60:SER:HA	10:J:87:GLN:HA	2.01	0.43
5:E:110:LYS:CA	6:F:10:GLN:HG2	2.45	0.43
5:E:237:ASN:N	5:E:237:ASN:ND2	2.66	0.43
5:E:306:ILE:HG23	5:E:343:LEU:HD12	2.01	0.43
5:E:426:PHE:CD1	5:E:426:PHE:N	2.87	0.43
6:F:65:ARG:HG3	6:F:65:ARG:NH1	2.34	0.43
6:F:107:ILE:CG2	6:F:111:LYS:HE3	2.49	0.43
10:J:90:HIS:HB3	10:J:108:TYR:HB2	2.00	0.43
12:L:66:GLU:HG3	12:L:66:GLU:O	2.19	0.43
13:M:77:ILE:HG22	13:M:80:LEU:HD22	2.00	0.43
1:A:700:LYS:HZ3	4:D:456:LEU:HB2	1.83	0.42
1:A:1149:ILE:HG21	1:A:1187:TRP:CE2	2.54	0.42
1:A:1270:GLU:CB	1:A:1277:ASN:ND2	2.82	0.42
1:A:3083:ARG:NH2	1:A:3630:ALA:O	2.51	0.42
1:A:3246:ALA:HB1	17:Q:126:ASN:HA	1.48	0.42
1:A:3317:PHE:HA	1:A:3333:LEU:CD1	2.48	0.42
1:A:3897:PRO:HA	1:A:3900:ILE:HG22	2.01	0.42
1:A:4562:ASN:CG	1:A:4562:ASN:O	2.62	0.42
2:B:722:TYR:CD1	2:B:722:TYR:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:749:LYS:N	2:B:750:PRO:CD	2.82	0.42
2:B:801:ILE:CG1	2:B:937:PHE:CD1	2.71	0.42
2:B:1456:PHE:CG	2:B:1569:VAL:CG1	2.98	0.42
2:B:1603:LYS:HB3	2:B:1610:TYR:CE1	2.54	0.42
2:B:2815:ALA:HB1	2:B:2817:PRO:HD2	2.01	0.42
2:B:3133:ILE:CG1	2:B:3440:LEU:HD13	2.48	0.42
3:C:7:TRP:CZ3	3:C:352:LEU:HD12	2.54	0.42
3:C:1047:LEU:HG	3:C:1111:LEU:HD11	2.00	0.42
3:C:1048:LEU:C	3:C:1048:LEU:HD13	2.44	0.42
3:C:3014:PRO:HD3	3:C:3125:THR:HG22	2.01	0.42
3:C:3792:ILE:HD12	3:C:3801:ASN:HD22	1.83	0.42
4:D:184:GLY:N	11:K:69:TYR:HE1	2.17	0.42
4:D:199:ILE:HG21	9:I:104:ALA:HB2	1.94	0.42
4:D:360:ALA:C	5:E:133:PHE:CZ	2.97	0.42
4:D:509:ASN:ND2	4:D:512:HIS:HB3	2.33	0.42
4:D:532:TYR:CE1	4:D:652:MET:HE1	2.54	0.42
4:D:564:ASP:HB2	4:D:583:LYS:HE2	2.01	0.42
4:D:567:GLN:CG	4:D:578:LYS:CD	2.87	0.42
4:D:584:ILE:H	4:D:584:ILE:HG13	1.49	0.42
4:D:622:LYS:CB	4:D:640:LYS:HD2	2.49	0.42
5:E:26:ARG:HB2	5:E:26:ARG:CZ	2.48	0.42
5:E:61:VAL:CG2	10:J:106:LEU:CD1	2.86	0.42
5:E:286:GLY:CA	5:E:318:GLY:HA2	2.48	0.42
5:E:394:TRP:CZ2	5:E:401:PRO:HB3	2.51	0.42
7:G:120:THR:N	9:I:12:ILE:HG21	2.33	0.42
13:M:74:PHE:CD1	13:M:74:PHE:C	2.96	0.42
14:N:115:MET:HE3	15:O:129:CYS:HB2	2.00	0.42
16:P:14:THR:H	16:P:18:HIS:CB	2.31	0.42
1:A:604:ALA:HB2	1:A:698:GLU:CG	2.49	0.42
1:A:616:LYS:HB2	4:D:500:LEU:CD2	2.49	0.42
1:A:1212:LEU:HD23	1:A:1212:LEU:O	2.19	0.42
1:A:1521:LEU:O	1:A:1541:PHE:HE2	1.99	0.42
1:A:1828:THR:HG21	1:A:1860:GLN:HE21	1.83	0.42
1:A:3895:GLU:O	1:A:3899:LEU:HD13	2.19	0.42
1:A:4121:VAL:HB	1:A:4126:TRP:CG	2.54	0.42
1:A:4321:GLN:HB2	1:A:4393:ILE:HD12	2.00	0.42
2:B:87:LYS:C	2:B:103:ASN:HA	2.39	0.42
2:B:555:LEU:CD2	2:B:625:LEU:HB3	2.49	0.42
2:B:581:ASN:HD22	5:E:184:MET:HE3	1.72	0.42
2:B:957:GLN:NE2	2:B:957:GLN:HA	2.34	0.42
2:B:1100:ASP:HA	2:B:1103:VAL:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1783:GLU:HA	2:B:1786:LYS:HE2	2.00	0.42
2:B:2260:TRP:CD1	2:B:2302:ILE:HD12	2.54	0.42
2:B:2742:ARG:NH2	19:B:5405:ADP:O1B	2.47	0.42
2:B:2885:ASN:HD22	2:B:3018:VAL:HB	1.84	0.42
2:B:3243:LYS:CD	2:B:3285:ASN:O	2.66	0.42
2:B:3353:VAL:HA	2:B:3356:LEU:HD12	2.00	0.42
2:B:3658:ILE:HD11	2:B:3748:ARG:HD2	2.00	0.42
2:B:3894:ALA:N	2:B:3895:PRO:HD2	2.34	0.42
2:B:4458:ILE:HD12	2:B:4489:GLU:HA	2.01	0.42
3:C:12:GLN:HE22	3:C:349:LEU:HB3	1.79	0.42
3:C:53:PRO:CD	3:C:81:PRO:HB2	2.47	0.42
3:C:146:ARG:CB	3:C:165:GLY:HA3	2.48	0.42
3:C:162:GLY:HA2	3:C:203:HIS:CE1	2.54	0.42
3:C:252:ASN:CG	3:C:323:SER:HB3	2.44	0.42
3:C:2402:LEU:O	3:C:2406:CYS:SG	2.74	0.42
3:C:2793:LEU:O	3:C:2796:PRO:HG2	2.18	0.42
3:C:2989:LEU:HD12	3:C:2990:PRO:HD2	2.00	0.42
3:C:4000:ARG:HG3	3:C:4021:TYR:HB3	2.00	0.42
5:E:377:ASN:N	5:E:377:ASN:ND2	2.60	0.42
8:H:43:THR:CB	9:I:86:ASP:OD2	2.65	0.42
9:I:96:PHE:CD1	9:I:96:PHE:C	2.98	0.42
11:K:38:PHE:HB3	11:K:41:LYS:HB2	2.01	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD13	2.55	0.42
13:M:84:LEU:C	13:M:84:LEU:CD1	2.85	0.42
15:O:102:LEU:HD13	15:O:103:TRP:N	2.34	0.42
1:A:677:ARG:HG3	1:A:677:ARG:O	2.19	0.42
1:A:801:ILE:O	1:A:806:ILE:HG22	2.18	0.42
1:A:955:ILE:HD12	1:A:955:ILE:HA	1.93	0.42
1:A:1263:TYR:HE2	1:A:1280:TYR:HA	1.84	0.42
1:A:1570:LEU:HD12	1:A:1570:LEU:N	2.32	0.42
1:A:3294:GLU:HA	1:A:3294:GLU:OE2	2.19	0.42
2:B:224:ASP:CA	2:B:347:ILE:CB	2.95	0.42
2:B:412:LEU:CD1	2:B:412:LEU:C	2.86	0.42
2:B:425:ASP:HB3	2:B:489:PHE:CZ	2.54	0.42
2:B:725:ILE:CG2	2:B:776:LEU:HG	2.31	0.42
2:B:815:ASP:HB3	2:B:819:LYS:HE3	2.01	0.42
2:B:1771:LEU:HD11	2:B:1787:ILE:HG23	2.02	0.42
2:B:3283:PHE:HE1	2:B:3293:LYS:HZ1	1.58	0.42
3:C:10:LEU:C	3:C:10:LEU:CD1	2.90	0.42
3:C:1017:MET:HE2	3:C:1030:VAL:HB	2.01	0.42
3:C:2938:SER:HA	3:C:2949:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3057:ILE:HA	3:C:3101:PHE:O	2.19	0.42
5:E:119:CYS:HB2	6:F:88:ILE:HD13	1.89	0.42
5:E:320:THR:O	5:E:320:THR:HG22	2.19	0.42
5:E:367:LEU:N	5:E:367:LEU:HD23	2.34	0.42
5:E:498:GLN:HB2	5:E:501:GLU:HG3	2.01	0.42
8:H:46:LYS:CE	9:I:86:ASP:O	2.61	0.42
12:L:74:TRP:CD1	12:L:109:LYS:CD	2.93	0.42
12:L:86:LEU:HD21	13:M:56:ILE:HG12	2.01	0.42
13:M:6:GLU:HG3	13:M:6:GLU:O	2.18	0.42
1:A:755:HIS:CE1	1:A:869:TYR:CB	3.02	0.42
1:A:793:GLN:OE1	5:E:451:LYS:HD3	2.19	0.42
1:A:845:THR:HG22	1:A:965:CYS:HA	2.01	0.42
1:A:948:LEU:HB3	1:A:1010:LYS:CD	2.45	0.42
1:A:1205:GLN:HE22	4:D:166:PHE:HD2	0.84	0.42
1:A:3304:GLU:O	17:Q:55:LEU:O	2.35	0.42
1:A:3654:LEU:HD23	1:A:3755:SER:HA	2.02	0.42
2:B:582:MET:SD	2:B:587:GLY:HA3	2.58	0.42
2:B:603:ILE:HD12	2:B:626:TYR:CE1	2.49	0.42
2:B:1058:LYS:CD	2:B:1167:MET:SD	3.07	0.42
2:B:1061:GLN:CD	2:B:1095:ILE:HG12	2.44	0.42
2:B:1462:LYS:HA	2:B:1463:GLU:HA	1.85	0.42
2:B:3446:SER:HB2	2:B:3489:THR:CB	2.38	0.42
2:B:4206:ARG:CZ	2:B:4573:ILE:HG22	2.49	0.42
3:C:90:ILE:HA	3:C:153:PHE:CZ	2.54	0.42
3:C:143:PRO:HB3	3:C:160:ILE:HD11	2.00	0.42
3:C:2578:PHE:CZ	3:C:2582:ILE:HD11	2.54	0.42
3:C:2708:GLN:CG	3:C:2813:ILE:HD11	2.49	0.42
3:C:2937:TYR:O	3:C:2941:PHE:CD1	2.73	0.42
4:D:394:LYS:HG3	4:D:394:LYS:O	2.18	0.42
4:D:401:GLN:CG	4:D:462:PHE:CD1	3.03	0.42
5:E:47:PHE:CA	12:L:88:PHE:CE2	3.02	0.42
5:E:119:CYS:HB2	6:F:88:ILE:CD1	2.47	0.42
5:E:145:LEU:HD22	5:E:494:LEU:CG	2.43	0.42
6:F:50:ALA:CB	8:H:83:GLN:HB3	2.49	0.42
6:F:62:VAL:HG13	6:F:66:ASP:HB2	2.00	0.42
8:H:36:ASN:N	8:H:36:ASN:ND2	2.67	0.42
13:M:20:VAL:HG21	13:M:73:ILE:HD13	2.01	0.42
14:N:70:THR:HA	15:O:99:SER:HA	2.01	0.42
1:A:634:ILE:CG2	1:A:638:TYR:HH	2.23	0.42
1:A:801:ILE:HG22	1:A:862:LEU:HD21	1.78	0.42
1:A:805:ARG:HG3	5:E:151:MET:HB3	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1417:GLU:HA	1:A:1420:THR:HG1	1.79	0.42
1:A:1448:GLY:O	1:A:1459:LEU:HA	2.20	0.42
1:A:1537:GLN:NE2	1:A:1587:MET:HB3	2.34	0.42
1:A:2839:LEU:HD11	19:A:4703:ADP:N1	1.62	0.42
2:B:447:THR:HA	5:E:443:GLN:HB3	2.00	0.42
2:B:966:LYS:HD3	3:C:345:TRP:CG	2.54	0.42
2:B:1456:PHE:CZ	2:B:1563:VAL:HG11	2.28	0.42
2:B:1514:VAL:CG1	2:B:1570:VAL:HA	2.43	0.42
3:C:276:PHE:CE1	3:C:282:ARG:HG3	2.55	0.42
3:C:2246:ARG:CD	3:C:2344:ARG:HG2	2.49	0.42
4:D:208:TYR:CZ	9:I:22:LYS:HB2	2.52	0.42
4:D:319:TYR:C	4:D:320:ASP:OD1	2.53	0.42
4:D:552:PRO:CG	4:D:597:TYR:HA	2.49	0.42
5:E:20:PHE:CD2	5:E:20:PHE:O	2.73	0.42
6:F:48:ILE:HD11	6:F:98:LEU:HD23	0.44	0.42
13:M:45:PHE:HA	13:M:48:ILE:HG22	2.00	0.42
15:O:41:LEU:HD22	15:O:70:LYS:HE2	2.02	0.42
17:Q:5:THR:CB	17:Q:37:PRO:O	2.68	0.42
1:A:608:ILE:CD1	4:D:477:GLU:OE1	2.67	0.42
1:A:731:LEU:CB	4:D:390:VAL:CG2	2.96	0.42
1:A:770:LEU:HD22	1:A:774:SER:HB3	2.00	0.42
1:A:1276:GLN:CG	4:D:153:HIS:ND1	2.79	0.42
1:A:1440:TRP:NE1	1:A:1474:ASP:OD2	2.48	0.42
1:A:1517:LEU:HB3	1:A:1581:LEU:HD22	2.02	0.42
1:A:1764:LEU:HD12	1:A:1788:GLN:HG3	2.02	0.42
1:A:3674:LEU:C	1:A:3674:LEU:HD23	2.44	0.42
2:B:433:ILE:HG12	2:B:463:PHE:HE1	1.84	0.42
2:B:544:HIS:O	2:B:548:LEU:HG	2.20	0.42
2:B:609:LEU:H	2:B:609:LEU:CD2	2.33	0.42
2:B:725:ILE:HG21	2:B:776:LEU:HD21	2.01	0.42
2:B:804:ARG:NH2	2:B:899:LEU:HB3	2.34	0.42
2:B:2862:LEU:N	2:B:2862:LEU:HD12	2.35	0.42
3:C:96:LEU:HB3	3:C:113:ILE:HG23	2.00	0.42
3:C:973:LYS:HA	3:C:976:ILE:HD12	2.02	0.42
3:C:2079:ILE:HD12	3:C:2124:VAL:HG11	2.01	0.42
3:C:2721:GLU:OE2	3:C:2721:GLU:HA	2.19	0.42
3:C:3588:VAL:HG11	3:C:3621:TRP:CD2	2.54	0.42
3:C:3724:CYS:HB3	3:C:3764:LEU:HD11	2.02	0.42
3:C:4113:VAL:HG12	3:C:4114:PRO:HD2	2.01	0.42
4:D:173:CYS:O	13:M:62:GLY:HA2	2.19	0.42
4:D:183:ARG:CB	11:K:72:TYR:HE2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:312:PHE:CZ	4:D:332:TYR:HB2	2.54	0.42
4:D:316:LEU:CD1	4:D:316:LEU:N	2.83	0.42
5:E:59:HIS:H	10:J:90:HIS:CD2	2.38	0.42
5:E:66:VAL:CG1	8:H:72:GLU:HG2	2.49	0.42
5:E:81:PRO:HG2	5:E:95:PHE:CE2	2.55	0.42
5:E:152:LEU:HD22	5:E:486:THR:HG22	2.01	0.42
5:E:429:ARG:HH21	5:E:433:TRP:HB2	1.85	0.42
7:G:64:LEU:HD22	7:G:76:TYR:CE2	2.55	0.42
7:G:78:ILE:HD13	7:G:145:LEU:HG	2.01	0.42
8:H:59:CYS:O	9:I:85:TYR:CA	2.66	0.42
10:J:83:ASN:ND2	11:K:64:LYS:HD2	2.34	0.42
10:J:97:TYR:CD1	10:J:106:LEU:HB2	2.54	0.42
16:P:15:SER:O	16:P:16:GLU:C	2.62	0.42
1:A:837:GLN:NE2	1:A:958:ALA:CA	2.83	0.42
1:A:937:LEU:HD12	1:A:1081:ILE:CD1	2.50	0.42
1:A:1031:ILE:HG23	1:A:1034:SER:CB	2.48	0.42
1:A:1596:ARG:CZ	1:A:1909:LYS:HE3	2.50	0.42
1:A:2793:VAL:HG23	1:A:2804:ALA:HB2	2.02	0.42
1:A:3208:ALA:HB1	1:A:3342:TYR:HB2	2.01	0.42
1:A:3307:GLU:N	1:A:3308:PRO:CD	2.80	0.42
2:B:786:SER:CB	2:B:843:VAL:HG22	2.50	0.42
2:B:788:GLN:CD	2:B:788:GLN:C	2.87	0.42
2:B:805:LYS:HD3	2:B:809:MET:CE	2.50	0.42
2:B:888:PRO:O	2:B:891:ILE:HG23	2.15	0.42
2:B:1057:LEU:HD11	2:B:1098:TYR:CD2	2.55	0.42
2:B:1102:LEU:HD23	2:B:1105:GLN:CB	2.49	0.42
2:B:2040:LEU:HD13	2:B:2083:LEU:HD22	2.00	0.42
2:B:3134:GLN:C	2:B:3134:GLN:CD	2.88	0.42
2:B:3902:TYR:O	2:B:3934:ARG:NH1	2.52	0.42
2:B:4272:ILE:HG22	2:B:4518:MET:HE2	2.01	0.42
3:C:232:TYR:HB2	3:C:239:TRP:HB3	2.01	0.42
3:C:354:VAL:CG1	3:C:357:ILE:HB	2.49	0.42
3:C:2593:ARG:HD2	3:C:2921:LEU:HD11	2.01	0.42
3:C:3625:GLN:HA	3:C:3662:SER:OG	2.20	0.42
4:D:114:ASP:O	5:E:42:GLN:HA	2.19	0.42
4:D:141:MET:SD	4:D:155:GLU:HG2	2.60	0.42
5:E:53:ILE:HG21	12:L:81:ASN:HD21	1.84	0.42
5:E:58:GLU:HB2	10:J:89:VAL:HA	1.93	0.42
5:E:68:THR:HB	8:H:70:THR:HG23	1.93	0.42
5:E:216:SER:HB3	5:E:235:CYS:HB3	2.01	0.42
5:E:343:LEU:HD21	5:E:358:ARG:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:44:PHE:CD1	8:H:44:PHE:C	2.98	0.42
15:O:72:LYS:C	15:O:72:LYS:CD	2.85	0.42
1:A:642:ASN:O	1:A:646:LYS:HG3	2.19	0.42
1:A:748:CYS:SG	1:A:802:ILE:CD1	3.08	0.42
1:A:1016:PHE:HD2	1:A:1020:PHE:CZ	2.38	0.42
1:A:2275:GLU:HB2	1:A:2624:ARG:HD3	2.02	0.42
1:A:3241:LEU:CB	17:Q:104:TYR:CD1	2.37	0.42
1:A:3307:GLU:HB3	17:Q:56:SER:O	2.17	0.42
1:A:3309:TYR:CD2	17:Q:58:SER:CB	2.96	0.42
2:B:549:GLU:HA	2:B:549:GLU:OE2	2.19	0.42
2:B:625:LEU:CD2	2:B:625:LEU:C	2.92	0.42
2:B:1440:ILE:O	2:B:1443:LYS:HB2	2.20	0.42
2:B:2666:ARG:NH2	20:B:5403:ATP:O3G	2.52	0.42
2:B:3041:ASN:OD1	2:B:3042:ASN:N	2.53	0.42
2:B:3143:LEU:HD21	2:B:3698:LEU:CD1	2.49	0.42
2:B:3147:GLN:HE21	2:B:3427:ALA:HB2	1.85	0.42
2:B:3207:GLU:HG3	2:B:3367:LEU:CB	2.50	0.42
2:B:3239:VAL:HB	2:B:3284:MET:HE1	2.02	0.42
2:B:3268:THR:CG2	2:B:3269:LEU:H	2.20	0.42
2:B:3432:ARG:HH12	2:B:3687:LEU:HD11	1.85	0.42
2:B:4044:ILE:HG13	2:B:4076:LEU:HB2	2.01	0.42
3:C:25:THR:OG1	3:C:87:SER:CB	2.67	0.42
3:C:2715:PRO:CG	3:C:2719:VAL:HB	2.44	0.42
3:C:2742:LYS:CE	3:C:2785:VAL:CG2	2.82	0.42
3:C:2772:LYS:CE	3:C:2776:ASP:OD2	2.64	0.42
3:C:2934:PHE:HE2	3:C:3001:ILE:HG13	1.84	0.42
4:D:351:MET:CA	4:D:351:MET:CE	2.86	0.42
4:D:512:HIS:CD2	4:D:513:PRO:HD3	2.48	0.42
4:D:561:ALA:HB2	4:D:566:VAL:HG22	2.01	0.42
5:E:120:ILE:HG12	6:F:101:GLN:OE1	2.20	0.42
5:E:179:VAL:HG11	5:E:485:VAL:HG21	2.02	0.42
7:G:111:ARG:C	7:G:114:VAL:HG12	2.39	0.42
11:K:60:CYS:O	11:K:60:CYS:SG	2.77	0.42
11:K:80:PHE:CE1	11:K:87:ILE:HB	2.55	0.42
1:A:612:HIS:HB3	4:D:501:LEU:HD21	2.01	0.42
1:A:614:PHE:CG	1:A:644:LEU:CD2	2.95	0.42
1:A:751:LEU:CD2	1:A:866:ILE:CD1	2.92	0.42
1:A:1161:SER:O	11:K:15:ASN:CB	2.62	0.42
1:A:1511:TRP:N	1:A:1574:LEU:HD13	2.33	0.42
1:A:1643:LYS:HE3	1:A:1675:LYS:HZ2	1.84	0.42
1:A:2227:THR:HG22	1:A:2267:ASN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3305:LEU:HD13	17:Q:80:SER:CB	2.49	0.42
1:A:4252:PRO:HG3	1:A:4265:TYR:CG	2.55	0.42
2:B:439:LEU:HD12	2:B:503:LEU:HD21	2.02	0.42
2:B:551:TYR:CE2	2:B:622:VAL:HG12	2.55	0.42
2:B:1456:PHE:O	2:B:1456:PHE:CG	2.73	0.42
2:B:1466:THR:CB	2:B:1522:GLN:OE1	2.61	0.42
2:B:1798:ARG:NH2	2:B:2049:ARG:HD2	2.35	0.42
3:C:90:ILE:HA	3:C:153:PHE:CE2	2.55	0.42
3:C:268:ILE:HG12	3:C:301:TRP:CH2	2.55	0.42
3:C:1552:LEU:HD21	3:C:1600:GLN:HG2	2.01	0.42
3:C:2005:PRO:HB2	3:C:2145:PHE:CD1	2.55	0.42
3:C:2849:VAL:CG1	3:C:2853:GLU:OE2	2.68	0.42
3:C:3644:LEU:HD11	3:C:3661:ILE:HD11	2.02	0.42
4:D:284:LEU:C	4:D:614:VAL:HG13	2.45	0.42
4:D:563:MET:O	4:D:564:ASP:CG	2.60	0.42
4:D:599:ASP:HB3	4:D:600:PRO:HD2	2.01	0.42
4:D:634:LYS:HB3	4:D:638:GLU:CD	2.44	0.42
6:F:91:GLN:HB3	6:F:96:THR:HG22	1.96	0.42
12:L:59:LYS:CB	12:L:59:LYS:HZ3	2.33	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD22	2.55	0.42
1:A:1007:GLN:HA	1:A:1010:LYS:CE	2.44	0.42
1:A:1012:LYS:HZ3	1:A:1072:GLY:CA	2.15	0.42
1:A:1126:VAL:CG1	1:A:1201:TYR:CE1	3.03	0.42
1:A:2699:LEU:HD22	1:A:2699:LEU:N	2.35	0.42
1:A:4415:VAL:HG21	1:A:4438:TRP:CD1	2.55	0.42
2:B:609:LEU:HD22	2:B:609:LEU:H	1.85	0.42
2:B:886:ILE:HG21	2:B:972:ILE:HD12	2.01	0.42
2:B:914:ASP:N	2:B:915:PRO:CD	2.82	0.42
2:B:1237:ARG:HH22	2:B:1259:ASN:HA	1.50	0.42
2:B:1530:ASN:O	2:B:1530:ASN:OD1	2.38	0.42
2:B:1563:VAL:C	2:B:1565:ALA:H	2.26	0.42
2:B:2366:ALA:HA	2:B:2432:LEU:HD13	2.02	0.42
2:B:2696:LEU:HD12	2:B:2707:ALA:HB2	2.01	0.42
2:B:3118:TYR:HB2	2:B:3455:SER:HB3	1.91	0.42
3:C:2152:PHE:CZ	3:C:2192:HIS:CE1	3.08	0.42
3:C:2213:ARG:HB3	19:C:4305:ADP:H5'2	2.02	0.42
3:C:2710:LYS:O	3:C:2755:LEU:HD22	2.20	0.42
3:C:4051:THR:HB	3:C:4108:ILE:HG23	2.01	0.42
4:D:255:ASN:HD21	7:G:134:GLU:CD	2.26	0.42
4:D:288:ARG:HH21	4:D:610:GLY:HA3	1.85	0.42
4:D:379:ASN:ND2	5:E:138:SER:OG	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:55:GLU:HB2	10:J:92:LYS:HG3	2.01	0.42
5:E:282:THR:HG22	5:E:288:VAL:CG2	2.45	0.42
6:F:28:GLU:N	6:F:28:GLU:CD	2.73	0.42
9:I:24:ILE:CG2	9:I:98:PHE:HD1	2.33	0.42
9:I:77:CYS:O	9:I:77:CYS:SG	2.78	0.42
10:J:79:PHE:CE2	11:K:68:ALA:HB3	2.55	0.42
12:L:77:ILE:CD1	13:M:65:ILE:CD1	2.98	0.42
14:N:61:LEU:HD12	14:N:61:LEU:O	2.19	0.42
1:A:598:ARG:HH11	4:D:504:TYR:HA	1.80	0.41
1:A:791:LEU:CG	1:A:795:ILE:HD11	2.50	0.41
1:A:1027:CYS:O	1:A:1088:TRP:CZ3	2.70	0.41
1:A:1100:LEU:HD23	1:A:1163:LEU:HD12	2.01	0.41
1:A:1111:LEU:HD11	1:A:1156:VAL:HG21	2.02	0.41
1:A:1924:ASP:HA	1:A:1975:THR:OG1	2.20	0.41
1:A:2316:ARG:HH11	1:A:2372:VAL:HG22	1.85	0.41
1:A:2340:GLN:OE1	1:A:2341:SER:N	2.53	0.41
1:A:2498:ALA:N	19:A:4701:ADP:O2B	2.52	0.41
1:A:3564:LYS:HG3	1:A:3615:MET:HE1	2.01	0.41
2:B:426:ILE:C	2:B:430:THR:HG23	2.34	0.41
2:B:679:ARG:C	2:B:683:GLU:HG3	2.33	0.41
3:C:1388:THR:HB	3:C:3786:ILE:HG23	2.01	0.41
3:C:2799:THR:HB	3:C:2800:PRO:CD	2.50	0.41
3:C:3245:HIS:HD2	3:C:3246:SER:O	2.03	0.41
4:D:141:MET:HB2	4:D:158:ILE:HD13	2.01	0.41
4:D:163:ARG:NH1	12:L:73:GLU:CD	2.78	0.41
5:E:110:LYS:HA	6:F:10:GLN:CG	2.46	0.41
5:E:439:TYR:HD1	5:E:443:GLN:HA	1.85	0.41
6:F:87:TYR:CD2	6:F:100:ILE:HG12	2.55	0.41
11:K:18:MET:HE3	11:K:18:MET:CA	2.40	0.41
11:K:33:VAL:HA	11:K:42:ILE:HD11	2.01	0.41
12:L:86:LEU:HD21	13:M:56:ILE:CG1	2.50	0.41
1:A:614:PHE:CZ	1:A:648:LEU:HD11	2.56	0.41
1:A:728:ASN:HB3	4:D:390:VAL:HG13	1.35	0.41
1:A:909:MET:HE3	1:A:955:ILE:HD11	1.86	0.41
1:A:1534:MET:N	1:A:1535:PRO:CD	2.83	0.41
1:A:2855:ILE:HG21	1:A:2863:GLY:CA	2.49	0.41
1:A:3307:GLU:C	17:Q:30:LYS:HA	2.45	0.41
1:A:4415:VAL:HG22	1:A:4435:LEU:HA	2.01	0.41
2:B:57:ASN:N	2:B:84:PHE:O	2.53	0.41
2:B:426:ILE:HG12	2:B:485:PHE:HZ	1.85	0.41
2:B:588:ALA:O	2:B:592:CYS:SG	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:744:MET:CG	2:B:776:LEU:HD22	2.32	0.41
2:B:947:LEU:HD22	2:B:955:PHE:HZ	1.85	0.41
2:B:2622:GLN:OE1	2:B:2625:ARG:NH1	2.54	0.41
2:B:3116:ASP:HA	2:B:3119:LYS:NZ	2.35	0.41
2:B:3139:GLY:N	2:B:3433:TRP:HZ3	2.07	0.41
2:B:3827:LEU:HD21	2:B:4289:LEU:HB3	2.02	0.41
3:C:90:ILE:HD11	3:C:96:LEU:HD21	2.00	0.41
3:C:2014:CYS:O	3:C:2015:GLY:C	2.62	0.41
3:C:2708:GLN:NE2	3:C:2809:ALA:C	2.59	0.41
4:D:350:VAL:CG1	4:D:365:VAL:HG13	2.50	0.41
4:D:379:ASN:OD1	5:E:138:SER:OG	2.31	0.41
4:D:458:CYS:HB2	4:D:477:GLU:HB3	2.02	0.41
5:E:48:ILE:HG21	12:L:23:PHE:CE2	2.53	0.41
5:E:280:VAL:HG22	5:E:322:LEU:HD11	2.02	0.41
5:E:286:GLY:H	5:E:318:GLY:HA2	1.84	0.41
5:E:517:LYS:NZ	5:E:517:LYS:CB	2.73	0.41
6:F:107:ILE:HG22	6:F:111:LYS:HE3	2.02	0.41
10:J:40:ALA:HB1	10:J:107:MET:CE	2.50	0.41
10:J:43:GLU:HG2	10:J:67:TYR:CG	2.55	0.41
11:K:30:LYS:C	11:K:30:LYS:CD	2.85	0.41
15:O:30:TYR:CZ	15:O:34:ILE:HG13	2.55	0.41
1:A:95:PHE:H	1:A:124:THR:CB	2.33	0.41
1:A:95:PHE:N	1:A:124:THR:CB	2.84	0.41
1:A:699:ALA:O	4:D:454:ILE:CG2	2.68	0.41
1:A:732:TYR:N	4:D:390:VAL:HG23	2.33	0.41
1:A:935:VAL:CG1	1:A:944:LEU:CD2	2.98	0.41
1:A:1126:VAL:HG13	1:A:1131:SER:CB	2.51	0.41
1:A:1486:HIS:O	1:A:1489:PRO:HD2	2.20	0.41
1:A:1918:GLY:HA3	1:A:1967:ILE:HG21	2.01	0.41
1:A:2676:TRP:CD2	1:A:2699:LEU:HD21	2.54	0.41
1:A:2945:GLY:HA3	1:A:2992:ARG:HD2	2.02	0.41
1:A:3192:GLU:N	1:A:3192:GLU:OE1	2.53	0.41
1:A:3238:ASP:O	1:A:3242:VAL:HG23	2.20	0.41
1:A:3245:LYS:HE2	17:Q:124:ILE:H	1.49	0.41
1:A:3273:TYR:CG	1:A:3273:TYR:O	2.72	0.41
1:A:3276:SER:OG	17:Q:126:ASN:CB	2.68	0.41
2:B:531:LEU:HD22	2:B:536:ILE:HG22	2.02	0.41
2:B:580:LEU:C	5:E:184:MET:HB3	2.45	0.41
2:B:730:LEU:HB2	2:B:733:GLU:HG3	2.01	0.41
2:B:1203:ARG:H	2:B:1203:ARG:HG3	1.74	0.41
2:B:1528:LEU:HD22	2:B:1591:CYS:HB2	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1603:LYS:HD3	2:B:1610:TYR:CE1	2.55	0.41
2:B:2283:LYS:HB3	2:B:2295:LEU:HB3	2.03	0.41
2:B:3258:VAL:HG12	2:B:3313:ILE:HD12	2.01	0.41
2:B:3288:GLN:CA	2:B:3288:GLN:HE21	2.34	0.41
3:C:1171:ILE:HD11	3:C:1222:MET:SD	2.60	0.41
3:C:2867:LYS:O	3:C:2871:GLU:HG3	2.21	0.41
4:D:188:GLU:HA	4:D:189:PRO:HD2	1.75	0.41
4:D:470:HIS:HA	4:D:486:ARG:HD3	2.02	0.41
5:E:80:TRP:CH2	5:E:92:THR:HA	2.55	0.41
5:E:121:TYR:CZ	6:F:17:LEU:CD2	3.03	0.41
5:E:384:LEU:O	5:E:384:LEU:CD1	2.55	0.41
6:F:51:LEU:HD21	7:G:116:ASP:OD2	2.20	0.41
6:F:63:ILE:HG13	6:F:74:ILE:HG22	2.03	0.41
7:G:145:LEU:HD23	7:G:146:ILE:N	2.35	0.41
8:H:65:PHE:CE2	8:H:85:ALA:HB3	2.55	0.41
11:K:30:LYS:HD3	11:K:30:LYS:O	2.19	0.41
1:A:762:LYS:NZ	1:A:787:GLY:CA	2.83	0.41
1:A:832:SER:O	1:A:836:LEU:HG	2.20	0.41
1:A:898:LEU:HD23	1:A:898:LEU:HA	1.88	0.41
1:A:1114:GLN:C	1:A:1118:LEU:CD2	2.79	0.41
1:A:1173:ASP:HB3	1:A:1174:LYS:H	1.65	0.41
1:A:1396:PRO:O	1:A:1400:TYR:CA	2.68	0.41
1:A:1433:LEU:CD2	1:A:1481:PHE:CD2	3.01	0.41
1:A:1441:ASN:N	1:A:1562:ILE:HD11	2.36	0.41
1:A:1599:PHE:HE2	1:A:1630:LEU:CD2	2.33	0.41
1:A:2951:LEU:HD11	1:A:2956:ARG:HG3	2.03	0.41
1:A:4462:PHE:CD1	1:A:4524:VAL:HG13	2.56	0.41
2:B:409:SER:CA	2:B:413:PHE:HB2	2.50	0.41
2:B:917:ILE:HG22	2:B:980:GLU:HG3	2.02	0.41
2:B:1110:GLN:HA	2:B:1113:LEU:HD12	2.03	0.41
2:B:2488:GLU:HG2	2:B:2492:ASN:HD21	1.86	0.41
2:B:2819:ILE:HD11	2:B:2870:GLU:HG2	2.03	0.41
3:C:1191:ILE:HG23	3:C:1201:PHE:CE2	2.56	0.41
3:C:2585:PHE:CD1	3:C:2932:SER:OG	2.73	0.41
3:C:2902:ALA:CB	3:C:3193:LEU:HB3	2.50	0.41
3:C:3073:ALA:O	3:C:3074:ARG:HG2	2.19	0.41
3:C:3711:LEU:HD21	3:C:3725:LEU:HD23	2.02	0.41
4:D:564:ASP:OD2	4:D:583:LYS:CE	2.67	0.41
5:E:84:VAL:HG13	5:E:91:GLU:HB3	2.02	0.41
5:E:214:SER:HB3	5:E:243:TRP:CZ2	2.53	0.41
5:E:317:ILE:HG22	5:E:338:GLU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:12:LYS:HD3	8:H:12:LYS:HA	1.96	0.41
9:I:19:MET:CB	9:I:22:LYS:CE	2.99	0.41
9:I:89:VAL:HG21	9:I:94:LEU:HB2	2.02	0.41
11:K:81:TYR:CE2	11:K:86:ALA:HB2	2.54	0.41
12:L:86:LEU:N	12:L:86:LEU:HD22	2.35	0.41
1:A:717:LEU:HD22	4:D:454:ILE:HD12	1.03	0.41
1:A:797:ASN:OD1	5:E:450:HIS:CG	2.72	0.41
1:A:886:ILE:O	1:A:890:TYR:CD1	2.66	0.41
1:A:1595:LYS:HD2	1:A:1681:GLU:CD	2.46	0.41
1:A:1786:THR:HG22	1:A:2010:VAL:CG1	2.51	0.41
1:A:3103:TYR:HE2	1:A:3444:VAL:HG22	0.66	0.41
1:A:3247:ARG:CD	17:Q:128:ARG:CA	2.91	0.41
1:A:3308:PRO:CD	17:Q:57:LEU:HA	2.47	0.41
1:A:3532:ASP:HB3	1:A:3647:PHE:HB3	2.02	0.41
2:B:58:SER:H	2:B:70:LYS:N	2.19	0.41
2:B:60:ASN:CA	2:B:81:ILE:CB	2.97	0.41
2:B:178:SER:HA	2:B:197:GLU:CB	2.50	0.41
2:B:736:LEU:C	2:B:736:LEU:CD2	2.93	0.41
2:B:1122:ASP:HB2	2:B:1135:HIS:CE1	2.55	0.41
2:B:1912:LYS:HA	2:B:1922:VAL:HG11	2.03	0.41
2:B:3422:LEU:HD12	2:B:3716:LEU:CD1	2.48	0.41
2:B:3458:VAL:CG2	2:B:3498:LEU:HD21	2.51	0.41
2:B:4245:TYR:CD1	2:B:4245:TYR:C	2.98	0.41
3:C:209:ALA:HA	3:C:264:TRP:CG	2.56	0.41
3:C:760:THR:CB	3:C:827:ILE:HG23	2.50	0.41
3:C:1188:LEU:CD1	3:C:1207:LEU:HD11	2.50	0.41
3:C:1687:GLY:O	3:C:1688:ALA:HB3	2.20	0.41
3:C:2739:GLU:N	3:C:2746:PRO:HG3	2.35	0.41
4:D:195:ILE:N	9:I:87:VAL:O	2.31	0.41
4:D:248:MET:HG2	7:G:138:ALA:HB2	2.03	0.41
4:D:431:ASN:H	5:E:142:VAL:HG12	1.85	0.41
4:D:553:TYR:CD1	4:D:595:PHE:HE2	2.39	0.41
5:E:117:GLU:HG3	6:F:17:LEU:CD2	2.49	0.41
7:G:125:PHE:HZ	7:G:136:MET:HB3	1.85	0.41
10:J:38:GLU:CB	15:O:29:PHE:CZ	3.03	0.41
12:L:92:VAL:CG1	12:L:109:LYS:HD3	2.49	0.41
13:M:12:MET:SD	13:M:16:MET:HB3	2.60	0.41
15:O:35:GLN:HA	15:O:38:ILE:HG12	2.01	0.41
17:Q:131:ASN:C	17:Q:133:GLU:H	2.28	0.41
1:A:506:ALA:O	1:A:510:PHE:CB	2.68	0.41
1:A:700:LYS:HG2	4:D:454:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2476:ILE:HG22	1:A:2477:LEU:HD23	2.03	0.41
1:A:3302:THR:O	17:Q:78:SER:CB	2.69	0.41
1:A:3304:GLU:CB	17:Q:55:LEU:C	2.79	0.41
2:B:425:ASP:C	2:B:489:PHE:CE2	2.98	0.41
2:B:533:ARG:NH1	2:B:534:PRO:HG3	2.36	0.41
2:B:609:LEU:N	2:B:609:LEU:CD2	2.84	0.41
2:B:736:LEU:CD1	2:B:859:TYR:CG	3.02	0.41
2:B:1163:ARG:O	2:B:1167:MET:N	2.54	0.41
2:B:1488:LYS:HA	2:B:1494:VAL:CB	2.51	0.41
2:B:1784:ARG:O	2:B:1788:ILE:N	2.54	0.41
3:C:195:ASN:O	3:C:239:TRP:CE2	2.73	0.41
3:C:801:LEU:CB	3:C:824:MET:HE1	2.51	0.41
4:D:265:ARG:HD2	4:D:265:ARG:HA	1.82	0.41
4:D:286:ILE:HG21	4:D:287:TRP:CZ3	2.56	0.41
4:D:294:GLN:CG	4:D:297:LYS:HE2	2.51	0.41
4:D:563:MET:O	4:D:563:MET:SD	2.79	0.41
5:E:191:GLU:H	5:E:191:GLU:HG3	1.72	0.41
8:H:76:TYR:CD1	8:H:89:PHE:HB3	2.53	0.41
14:N:115:MET:HG3	15:O:129:CYS:SG	2.60	0.41
1:A:56:TYR:C	1:A:58:GLN:N	2.78	0.41
1:A:326:PRO:CB	1:A:372:GLN:C	2.94	0.41
1:A:644:LEU:CA	1:A:647:GLN:HG3	2.49	0.41
1:A:967:LYS:HB2	1:A:986:TYR:HB2	2.03	0.41
1:A:1136:MET:HG3	4:D:166:PHE:N	2.36	0.41
1:A:1260:TYR:CD2	1:A:1260:TYR:C	2.99	0.41
1:A:1433:LEU:HD22	1:A:1478:LEU:CD2	2.50	0.41
1:A:1449:ILE:N	1:A:1459:LEU:HD22	2.36	0.41
1:A:1814:ILE:HD12	1:A:1814:ILE:N	2.35	0.41
1:A:3121:LEU:CD2	1:A:3429:TRP:CG	2.81	0.41
1:A:3350:LYS:O	1:A:3354:ILE:N	2.54	0.41
1:A:3534:GLN:O	1:A:3536:GLN:N	2.53	0.41
1:A:3753:ARG:HG2	1:A:3803:ILE:HG23	2.02	0.41
2:B:3446:SER:HA	2:B:3488:ILE:CA	2.46	0.41
3:C:2159:SER:HA	3:C:2185:VAL:CG1	2.51	0.41
3:C:2691:VAL:O	3:C:2694:ALA:N	2.53	0.41
3:C:2725:ALA:CA	3:C:2728:TYR:CE2	2.88	0.41
4:D:241:PHE:HZ	7:G:78:ILE:CD1	2.16	0.41
4:D:289:PHE:HB3	4:D:332:TYR:CE1	2.56	0.41
4:D:292:GLU:N	4:D:292:GLU:CD	2.73	0.41
4:D:537:ILE:CD1	4:D:647:TYR:CE2	3.03	0.41
5:E:253:MET:CB	5:E:296:PHE:CE2	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:385:SER:CB	5:E:394:TRP:HZ3	2.33	0.41
10:J:102:LYS:HD2	10:J:102:LYS:O	2.21	0.41
13:M:23:ILE:HG22	13:M:41:ILE:CD1	2.51	0.41
14:N:97:LEU:HD23	14:N:97:LEU:HA	1.93	0.41
1:A:907:ASN:HB3	1:A:911:TYR:HE2	1.86	0.41
1:A:1191:ILE:HG23	13:M:10:THR:O	2.21	0.41
2:B:736:LEU:HG	2:B:855:SER:O	2.20	0.41
2:B:902:ILE:HB	2:B:1076:LEU:HG	1.76	0.41
2:B:2332:MET:N	2:B:2333:PRO:CD	2.83	0.41
2:B:3223:ALA:HB3	2:B:3349:ILE:HD11	2.02	0.41
2:B:3242:MET:HA	2:B:3245:LEU:CG	2.50	0.41
3:C:71:GLN:HG3	3:C:71:GLN:O	2.21	0.41
3:C:250:LYS:HA	3:C:273:VAL:HG12	2.03	0.41
3:C:338:PHE:HA	3:C:349:LEU:HD12	2.02	0.41
3:C:532:GLY:N	3:C:546:LYS:O	2.54	0.41
3:C:1201:PHE:HD1	3:C:1225:THR:HG21	1.85	0.41
3:C:1328:LEU:HG	3:C:1333:VAL:HG11	2.03	0.41
3:C:1385:ILE:HA	3:C:1388:THR:HG22	2.03	0.41
3:C:2581:LEU:HD11	3:C:2937:TYR:CE2	2.55	0.41
3:C:2600:LYS:NZ	3:C:2918:GLU:N	2.68	0.41
3:C:2727:ILE:HD11	3:C:2745:LYS:CD	2.18	0.41
3:C:2754:SER:O	3:C:2757:LEU:HB2	2.21	0.41
3:C:3874:THR:O	3:C:3878:VAL:HG23	2.20	0.41
3:C:4028:TYR:O	3:C:4031:ALA:HB3	2.21	0.41
4:D:199:ILE:CG1	9:I:104:ALA:HB2	2.51	0.41
4:D:248:MET:HE2	7:G:147:VAL:CB	2.42	0.41
4:D:550:TRP:HZ3	4:D:556:THR:HA	1.85	0.41
5:E:58:GLU:OE2	10:J:89:VAL:HG22	2.19	0.41
5:E:64:GLU:OE1	10:J:18:TYR:OH	2.32	0.41
5:E:110:LYS:HG2	6:F:10:GLN:NE2	2.34	0.41
5:E:119:CYS:CB	6:F:88:ILE:HG21	2.51	0.41
5:E:123:ASN:HB2	6:F:101:GLN:NE2	2.33	0.41
5:E:198:TYR:CE1	5:E:211:LYS:HG3	2.56	0.41
5:E:243:TRP:NE1	5:E:251:PRO:HB3	2.35	0.41
5:E:266:THR:CB	5:E:283:SER:HA	2.51	0.41
5:E:405:THR:HG23	5:E:405:THR:O	2.20	0.41
6:F:33:LEU:N	6:F:33:LEU:CD2	2.84	0.41
6:F:67:LEU:HD11	7:G:99:ILE:HG12	2.03	0.41
8:H:8:GLN:N	8:H:9:PRO:HD3	2.35	0.41
12:L:73:GLU:CG	13:M:66:ILE:HD12	2.48	0.41
13:M:45:PHE:HA	13:M:48:ILE:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:VAL:HG13	4:D:460:LEU:HD12	2.02	0.41
1:A:670:LEU:N	1:A:692:ILE:HD11	2.33	0.41
1:A:699:ALA:O	4:D:454:ILE:HG23	2.21	0.41
1:A:1111:LEU:HB3	1:A:1183:LEU:HD11	2.02	0.41
1:A:1161:SER:C	11:K:15:ASN:HB3	2.46	0.41
1:A:1450:TRP:CD1	1:A:1518:TRP:CH2	3.09	0.41
1:A:1599:PHE:HB3	1:A:1602:PHE:CD2	2.56	0.41
1:A:1806:PHE:O	1:A:1809:GLN:N	2.54	0.41
1:A:2721:MET:HE2	1:A:2783:PHE:HE1	1.85	0.41
1:A:3092:PHE:CE2	1:A:3096:LEU:HD11	2.56	0.41
1:A:3128:THR:CG2	1:A:3422:LEU:HD13	2.51	0.41
1:A:3303:ILE:HD12	1:A:3303:ILE:HA	2.00	0.41
1:A:3333:LEU:HD23	1:A:3333:LEU:HA	1.84	0.41
1:A:3953:ILE:N	1:A:3953:ILE:HD12	2.35	0.41
1:A:4331:LEU:HD11	1:A:4382:VAL:HG12	2.03	0.41
1:A:4534:CYS:HG	1:A:4535:LYS:N	2.18	0.41
2:B:447:THR:HG21	2:B:513:ASP:C	2.46	0.41
2:B:599:ILE:CG2	2:B:626:TYR:CD1	3.03	0.41
2:B:599:ILE:CG2	2:B:626:TYR:HD1	2.34	0.41
2:B:803:GLU:O	2:B:803:GLU:HG3	2.20	0.41
2:B:963:PHE:HZ	3:C:39:LEU:CB	2.34	0.41
2:B:993:TYR:CE2	2:B:1067:ILE:HG21	2.55	0.41
2:B:1002:GLN:HG2	2:B:1094:TRP:HE1	1.83	0.41
2:B:1083:MET:SD	2:B:1083:MET:O	2.79	0.41
2:B:1511:VAL:O	2:B:1514:VAL:HG12	2.20	0.41
2:B:2058:LEU:HB2	2:B:2129:LEU:HD11	2.01	0.41
2:B:3085:VAL:HG23	2:B:3477:TRP:CZ2	2.56	0.41
2:B:3114:LEU:HD12	2:B:3114:LEU:C	2.45	0.41
2:B:3288:GLN:NE2	2:B:3288:GLN:CA	2.81	0.41
2:B:3555:THR:HG22	2:B:3578:LEU:HD23	2.02	0.41
2:B:4148:PRO:O	2:B:4152:ASN:ND2	2.53	0.41
2:B:4207:LEU:HD23	2:B:4207:LEU:C	2.46	0.41
3:C:6:VAL:HG22	3:C:7:TRP:N	2.35	0.41
3:C:913:MET:HA	3:C:913:MET:HE2	2.03	0.41
3:C:2242:HIS:HB2	3:C:2289:LEU:CD1	2.51	0.41
3:C:2365:GLY:C	19:C:4306:ADP:H5'2	2.46	0.41
3:C:2751:TRP:O	3:C:2754:SER:HB3	2.21	0.41
3:C:2854:VAL:O	3:C:2857:VAL:HG22	2.20	0.41
4:D:110:SER:HB2	15:O:96:ARG:HG3	1.99	0.41
4:D:294:GLN:CG	4:D:297:LYS:CE	2.99	0.41
4:D:329:ILE:CG1	4:D:350:VAL:HG21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:412:TYR:CB	4:D:428:LEU:HD22	2.50	0.41
4:D:541:LEU:HD12	4:D:545:VAL:CG2	2.47	0.41
5:E:63:THR:HA	10:J:99:TYR:OH	2.21	0.41
5:E:178:ALA:HB2	5:E:223:TYR:HE2	1.86	0.41
5:E:272:MET:SD	5:E:326:VAL:HG23	2.58	0.41
5:E:327:GLU:HB3	5:E:380:PRO:HB3	2.02	0.41
5:E:376:SER:HB3	5:E:417:TRP:CD2	2.56	0.41
5:E:408:HIS:CB	5:E:412:LEU:HD21	2.51	0.41
5:E:423:GLY:CA	5:E:505:ILE:HD12	2.47	0.41
5:E:497:MET:HE3	5:E:497:MET:HB3	1.94	0.41
6:F:36:HIS:CD2	6:F:38:LYS:HB2	2.56	0.41
7:G:85:VAL:HG22	7:G:100:ALA:HB1	2.02	0.41
7:G:145:LEU:HD23	7:G:145:LEU:C	2.46	0.41
8:H:16:MET:HE3	8:H:20:MET:CG	2.51	0.41
8:H:60:ILE:CD1	9:I:78:ILE:CG1	2.91	0.41
10:J:27:LEU:HG	10:J:29:PRO:HG2	2.03	0.41
10:J:65:LYS:HD3	10:J:65:LYS:O	2.21	0.41
10:J:81:GLY:HA3	11:K:66:PHE:HA	2.02	0.41
11:K:5:ALA:CB	11:K:81:TYR:HB2	2.49	0.41
11:K:80:PHE:C	11:K:80:PHE:HD1	2.28	0.41
12:L:57:LEU:HD12	12:L:57:LEU:O	2.20	0.41
1:A:612:HIS:CA	4:D:500:LEU:CG	2.95	0.41
1:A:674:LEU:HD23	1:A:770:LEU:HB2	2.03	0.41
1:A:850:SER:O	5:E:204:ASN:CA	2.69	0.41
1:A:1436:ILE:CG2	1:A:1474:ASP:OD2	2.66	0.41
1:A:2244:LEU:HD12	1:A:2247:VAL:HB	2.03	0.41
1:A:2668:LEU:HD11	1:A:2729:LEU:CD2	2.51	0.41
1:A:3749:PRO:HA	1:A:3752:ILE:HG22	2.03	0.41
1:A:3833:LYS:O	1:A:3837:THR:HG23	2.21	0.41
2:B:299:PHE:C	2:B:301:LYS:H	2.29	0.41
2:B:511:PHE:CE2	2:B:520:ARG:HD3	2.56	0.41
2:B:511:PHE:CZ	2:B:546:VAL:HB	2.56	0.41
2:B:1002:GLN:C	2:B:1004:SER:N	2.79	0.41
2:B:1102:LEU:HD23	2:B:1105:GLN:HB2	2.01	0.41
2:B:1208:LYS:HE3	2:B:1208:LYS:N	2.36	0.41
2:B:1492:LYS:HZ1	2:B:3606:GLN:CB	2.31	0.41
2:B:2190:LYS:HB2	20:B:5403:ATP:O1B	2.21	0.41
2:B:4189:ILE:HG22	2:B:4194:MET:HE2	2.03	0.41
3:C:289:ASP:HB2	3:C:318:PRO:O	2.21	0.41
3:C:2059:LEU:HD13	3:C:2067:TYR:CG	2.56	0.41
3:C:2934:PHE:HE2	3:C:3001:ILE:CG1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:4017:LEU:HD12	3:C:4018:CYS:N	2.36	0.41
4:D:79:ASN:N	4:D:104:GLN:HG2	2.33	0.41
4:D:105:MET:HE3	14:N:48:GLN:HA	1.87	0.41
4:D:110:SER:HA	15:O:96:ARG:HA	2.03	0.41
4:D:245:CYS:HA	7:G:145:LEU:HD13	2.03	0.41
4:D:252:VAL:HG21	7:G:147:VAL:HG11	2.03	0.41
4:D:422:ARG:HH21	4:D:422:ARG:HB3	1.86	0.41
4:D:517:ILE:CG1	4:D:550:TRP:NE1	2.73	0.41
5:E:59:HIS:CB	10:J:90:HIS:NE2	2.84	0.41
5:E:60:SER:HB3	10:J:87:GLN:HA	2.01	0.41
5:E:75:HIS:CD2	5:E:75:HIS:O	2.74	0.41
5:E:94:ARG:HE	5:E:94:ARG:HB2	1.67	0.41
7:G:103:ILE:HD12	7:G:146:ILE:HG21	2.02	0.41
8:H:50:ARG:NH2	9:I:88:THR:CG2	2.83	0.41
9:I:79:ILE:O	9:I:79:ILE:HG13	2.20	0.41
10:J:65:LYS:C	10:J:65:LYS:CD	2.94	0.41
11:K:78:ILE:HG22	11:K:89:LEU:HD11	2.03	0.41
11:K:79:PHE:HD1	11:K:88:LEU:HD13	1.85	0.41
1:A:761:LEU:CD2	1:A:874:HIS:HE1	2.22	0.40
1:A:935:VAL:HG13	1:A:944:LEU:HD23	2.04	0.40
1:A:1468:LEU:HA	1:A:1471:LEU:HD12	2.03	0.40
1:A:1562:ILE:N	1:A:1563:PRO:HD2	2.36	0.40
1:A:1611:LEU:HD23	1:A:1611:LEU:HA	1.93	0.40
1:A:2903:LYS:HG2	1:A:2950:LEU:HD13	2.03	0.40
2:B:744:MET:CE	2:B:772:ILE:HG23	2.42	0.40
2:B:801:ILE:CD1	2:B:878:ALA:C	2.63	0.40
2:B:887:ASN:HA	2:B:888:PRO:HD3	1.87	0.40
2:B:893:ARG:HA	2:B:893:ARG:HD2	1.91	0.40
2:B:1437:GLU:O	2:B:1441:GLU:HG3	2.21	0.40
2:B:2816:GLU:N	2:B:2817:PRO:CD	2.84	0.40
2:B:2879:LEU:O	2:B:3017:LYS:NZ	2.52	0.40
2:B:3147:GLN:HA	2:B:3426:LEU:HD12	2.03	0.40
2:B:3230:ALA:HB3	2:B:3342:ASN:OD1	2.07	0.40
2:B:3478:LEU:HB3	2:B:3479:PRO:HD3	2.02	0.40
3:C:215:MET:HA	3:C:230:MET:O	2.21	0.40
3:C:273:VAL:HG23	3:C:273:VAL:O	2.21	0.40
3:C:336:ILE:HG13	3:C:351:ALA:CB	2.51	0.40
3:C:2787:ILE:HD13	3:C:2824:TYR:HB3	2.04	0.40
4:D:89:TYR:CD2	11:K:56:PRO:CB	3.04	0.40
4:D:460:LEU:HD12	4:D:502:ALA:HB1	2.01	0.40
5:E:57:SER:C	10:J:90:HIS:O	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:230:GLN:HE21	5:E:242:VAL:HG11	1.86	0.40
5:E:268:PHE:CD1	5:E:268:PHE:C	2.99	0.40
5:E:324:TYR:CE2	5:E:330:PRO:HA	2.56	0.40
5:E:384:LEU:HG	5:E:417:TRP:CD1	2.53	0.40
7:G:86:VAL:HG21	7:G:143:PHE:HE1	1.86	0.40
9:I:19:MET:SD	9:I:22:LYS:HG3	2.61	0.40
11:K:56:PRO:HD2	13:M:59:ARG:HH21	1.86	0.40
14:N:84:GLN:NE2	15:O:61:GLU:CB	2.66	0.40
1:A:240:ALA:O	1:A:244:ILE:N	2.47	0.40
1:A:732:TYR:HB2	4:D:390:VAL:N	2.37	0.40
1:A:800:ASP:C	5:E:148:LYS:C	2.79	0.40
1:A:852:ASN:OD1	1:A:894:PHE:CZ	2.74	0.40
1:A:869:TYR:HA	1:A:870:PRO:HD3	1.96	0.40
1:A:871:LEU:CD2	1:A:875:VAL:HG12	2.46	0.40
1:A:935:VAL:HG22	1:A:1017:LEU:HD21	2.00	0.40
1:A:1136:MET:HB3	4:D:165:LYS:C	2.47	0.40
1:A:1631:PHE:HB2	1:A:1634:ILE:HG21	2.02	0.40
1:A:2576:LEU:HD13	1:A:2621:ILE:HG13	2.03	0.40
1:A:2839:LEU:HD13	19:A:4703:ADP:N3	2.33	0.40
1:A:4501:VAL:HG12	1:A:4562:ASN:HA	2.03	0.40
2:B:501:ARG:NH2	4:D:491:GLN:NE2	2.70	0.40
2:B:655:LYS:HE2	2:B:708:TYR:HE2	1.86	0.40
2:B:669:ILE:CB	2:B:719:VAL:HG12	2.08	0.40
2:B:673:PHE:HZ	2:B:677:LEU:HB3	1.74	0.40
2:B:864:ASN:CG	2:B:947:LEU:HD23	2.40	0.40
2:B:879:LEU:CB	2:B:968:CYS:SG	3.10	0.40
2:B:911:ILE:CD1	2:B:991:ASP:OD2	2.68	0.40
2:B:1378:LEU:N	2:B:1424:GLU:OE2	2.54	0.40
2:B:1474:MET:SD	2:B:1515:VAL:CG2	3.09	0.40
2:B:2073:ASP:OD2	2:B:2078:ALA:HB2	2.22	0.40
2:B:2893:GLY:HA2	19:B:5406:ADP:H5'2	2.02	0.40
2:B:3122:LEU:CD1	2:B:3448:ILE:HA	2.51	0.40
2:B:3160:LYS:HE3	2:B:3412:CYS:SG	2.61	0.40
2:B:3210:SER:CB	2:B:3363:ALA:CB	2.99	0.40
2:B:3446:SER:OG	2:B:3489:THR:CG2	2.66	0.40
3:C:79:PRO:HG3	3:C:121:TRP:CD2	2.56	0.40
3:C:114:LEU:HD22	3:C:115:LYS:N	2.37	0.40
3:C:1983:THR:CA	19:C:4305:ADP:N6	2.85	0.40
3:C:2710:LYS:O	3:C:2755:LEU:CD2	2.69	0.40
4:D:75:LEU:CD2	4:D:75:LEU:N	2.73	0.40
5:E:50:LEU:CD2	12:L:23:PHE:HB3	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:327:GLU:CB	5:E:380:PRO:HB3	2.51	0.40
5:E:556:GLU:N	5:E:556:GLU:OE1	2.55	0.40
6:F:78:ARG:HG2	6:F:88:ILE:HG23	2.03	0.40
9:I:63:ILE:CG2	9:I:77:CYS:SG	3.09	0.40
9:I:78:ILE:CD1	9:I:106:LEU:CB	2.88	0.40
10:J:86:CYS:SG	11:K:61:VAL:CA	3.09	0.40
1:A:577:ALA:HB2	1:A:636:ARG:CG	2.47	0.40
1:A:732:TYR:CD2	4:D:391:ARG:CZ	3.00	0.40
1:A:1100:LEU:HD22	1:A:1163:LEU:CD1	2.48	0.40
1:A:1163:LEU:HD23	1:A:1163:LEU:O	2.21	0.40
1:A:3244:PHE:C	17:Q:125:GLY:CA	2.90	0.40
1:A:3251:ILE:HD13	17:Q:64:LYS:HB2	2.01	0.40
1:A:3344:GLN:C	1:A:3345:LYS:HE3	2.46	0.40
2:B:598:ARG:CB	5:E:367:LEU:CD1	2.79	0.40
2:B:865:VAL:CG2	3:C:105:ASN:ND2	2.53	0.40
2:B:1456:PHE:HB2	2:B:1470:LEU:HD21	2.04	0.40
2:B:2754:THR:HG21	2:B:2770:LEU:CD2	2.51	0.40
2:B:3178:VAL:HG12	2:B:3395:LEU:CD1	2.47	0.40
2:B:4393:LEU:HB3	2:B:4395:ARG:HG2	2.04	0.40
3:C:12:GLN:HG3	3:C:69:TRP:HE1	1.83	0.40
3:C:194:GLY:H	3:C:238:GLU:CB	2.33	0.40
3:C:336:ILE:N	3:C:336:ILE:CD1	2.79	0.40
3:C:531:GLU:HA	3:C:546:LYS:O	2.21	0.40
3:C:2639:ASP:CA	3:C:2643:GLU:CG	2.95	0.40
3:C:2787:ILE:HD13	3:C:2824:TYR:CB	2.52	0.40
3:C:3828:ASP:HA	3:C:3829:PRO:HD3	1.96	0.40
4:D:75:LEU:CG	15:O:102:LEU:CD1	2.93	0.40
4:D:184:GLY:HA3	10:J:58:GLN:HE22	1.85	0.40
4:D:256:ASP:CG	7:G:149:GLN:OE1	2.64	0.40
5:E:497:MET:HE1	5:E:501:GLU:HB2	2.03	0.40
15:O:102:LEU:CD1	15:O:102:LEU:C	2.94	0.40
1:A:7:SER:C	1:A:9:ARG:N	2.70	0.40
1:A:696:ILE:HG23	1:A:720:GLU:OE2	2.22	0.40
1:A:710:PRO:HG2	1:A:713:ALA:CB	2.51	0.40
1:A:963:LEU:HD12	1:A:986:TYR:CE1	2.56	0.40
1:A:1095:GLN:OE1	1:A:1095:GLN:HA	2.22	0.40
1:A:1233:ASN:O	1:A:1251:ARG:O	2.35	0.40
1:A:1637:VAL:HG12	1:A:1653:ILE:HG23	1.97	0.40
1:A:2171:THR:O	1:A:2175:THR:HG23	2.21	0.40
1:A:2839:LEU:HD11	19:A:4703:ADP:N6	2.14	0.40
1:A:3446:ASN:CG	1:A:3488:LEU:HD11	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3893:PHE:CD1	1:A:3896:LEU:HD12	2.56	0.40
2:B:56:ASP:HA	2:B:84:PHE:O	2.21	0.40
2:B:429:LEU:HD21	2:B:493:ARG:CD	2.51	0.40
2:B:938:PHE:C	3:C:283:THR:CG2	2.95	0.40
2:B:1174:HIS:O	2:B:1178:ILE:CG1	2.54	0.40
2:B:1238:LYS:NZ	2:B:1308:LEU:N	2.70	0.40
2:B:2862:LEU:HA	19:B:5406:ADP:C2	2.57	0.40
2:B:3828:ILE:O	2:B:3832:LEU:HG	2.22	0.40
2:B:4169:MET:HG3	2:B:4173:MET:HE2	2.03	0.40
3:C:12:GLN:HB3	3:C:69:TRP:CD1	2.56	0.40
3:C:1626:LEU:CD1	3:C:4034:GLN:HE22	2.35	0.40
3:C:2743:ASN:HD21	3:C:2786:ASN:N	2.19	0.40
3:C:2800:PRO:HG3	3:C:2818:VAL:HG22	2.03	0.40
3:C:2820:ILE:HG23	3:C:2824:TYR:CE2	2.57	0.40
3:C:3225:ARG:N	3:C:3226:PRO:CD	2.84	0.40
4:D:94:ARG:CZ	13:M:78:ASN:HD21	2.27	0.40
4:D:134:LYS:HB2	4:D:134:LYS:HZ2	1.86	0.40
4:D:175:THR:CG2	13:M:61:PHE:H	2.34	0.40
4:D:543:MET:HG3	4:D:563:MET:HB3	2.04	0.40
5:E:57:SER:O	10:J:90:HIS:N	2.49	0.40
5:E:121:TYR:OH	6:F:17:LEU:HD21	2.21	0.40
8:H:58:HIS:HB3	9:I:87:VAL:HG22	2.03	0.40
9:I:30:MET:HB3	9:I:35:LEU:CD2	2.50	0.40
16:P:57:ILE:C	16:P:64:ILE:O	2.65	0.40
1:A:612:HIS:CA	4:D:500:LEU:HD11	2.34	0.40
1:A:1424:ASP:HA	1:A:1427:LEU:HD12	2.04	0.40
1:A:3252:GLN:O	1:A:3255:GLU:CD	2.63	0.40
2:B:436:PHE:CE2	2:B:463:PHE:CE1	3.07	0.40
2:B:673:PHE:HE2	2:B:678:VAL:HG23	1.87	0.40
2:B:954:ASP:N	3:C:282:ARG:NE	2.69	0.40
2:B:1454:GLN:CG	2:B:1473:MET:HE1	2.51	0.40
2:B:1521:VAL:O	2:B:1525:TRP:N	2.31	0.40
2:B:2065:LEU:HD13	2:B:2121:ILE:CG1	2.52	0.40
2:B:2984:VAL:HG13	2:B:3004:LEU:HD12	2.04	0.40
2:B:3114:LEU:HD12	2:B:3114:LEU:O	2.22	0.40
3:C:3600:MET:HE2	3:C:3630:MET:HE1	2.04	0.40
3:C:4000:ARG:NH1	3:C:4001:ASN:OD1	2.52	0.40
3:C:4050:GLN:HG3	3:C:4144:LEU:HD12	2.04	0.40
4:D:172:GLU:CB	13:M:64:HIS:HB2	2.21	0.40
4:D:252:VAL:CB	7:G:149:GLN:HE22	2.32	0.40
4:D:386:TYR:HB3	4:D:433:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:72:GLY:HA2	8:H:67:SER:O	2.22	0.40
5:E:75:HIS:N	8:H:65:PHE:O	2.33	0.40
5:E:560:HIS:ND1	5:E:560:HIS:C	2.79	0.40
6:F:26:PHE:CE1	6:F:49:ALA:N	2.89	0.40
6:F:35:ARG:CZ	6:F:41:SER:CB	2.80	0.40
6:F:35:ARG:HH21	6:F:41:SER:HB2	1.80	0.40
9:I:49:ASN:HD21	9:I:59:ALA:HA	1.86	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	A	4391/4620 (95%)	4177 (95%)	189 (4%)	25 (1%)	22	60
2	B	4491/4595 (98%)	4255 (95%)	199 (4%)	37 (1%)	16	55
3	C	3923/4168 (94%)	3692 (94%)	208 (5%)	23 (1%)	22	60
4	D	569/657 (87%)	546 (96%)	16 (3%)	7 (1%)	11	44
5	E	551/670 (82%)	531 (96%)	18 (3%)	2 (0%)	30	68
6	F	126/133 (95%)	120 (95%)	6 (5%)	0	100	100
7	G	147/159 (92%)	134 (91%)	7 (5%)	6 (4%)	2	18
8	H	89/92 (97%)	88 (99%)	1 (1%)	0	100	100
9	I	104/110 (94%)	100 (96%)	3 (3%)	1 (1%)	13	49
10	J	93/95 (98%)	90 (97%)	3 (3%)	0	100	100
11	K	88/93 (95%)	85 (97%)	3 (3%)	0	100	100
12	L	109/111 (98%)	104 (95%)	4 (4%)	1 (1%)	14	52
13	M	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
14	N	112/117 (96%)	105 (94%)	7 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	O	118/132 (89%)	112 (95%)	4 (3%)	2 (2%)	7	37
16	P	103/122 (84%)	90 (87%)	7 (7%)	6 (6%)	1	14
17	Q	189/202 (94%)	173 (92%)	13 (7%)	3 (2%)	8	38
18	R	148/160 (92%)	121 (82%)	19 (13%)	8 (5%)	1	15
All	All	15436/16323 (95%)	14606 (95%)	709 (5%)	121 (1%)	19	55

All (121) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	PRO
1	A	125	PRO
1	A	127	THR
1	A	151	ILE
1	A	1171	ILE
1	A	1172	THR
1	A	1348	GLN
2	B	6	GLN
2	B	17	ARG
2	B	100	THR
2	B	307	PRO
2	B	533	ARG
2	B	897	SER
2	B	1127	ASN
2	B	1567	PRO
2	B	3267	ILE
2	B	4257	LYS
3	C	2013	GLY
3	C	3619	GLY
4	D	234	GLN
4	D	397	ASP
4	D	398	PRO
7	G	19	GLN
7	G	49	ASN
16	P	36	TYR
16	P	37	PRO
17	Q	19	PRO
18	R	43	ILE
18	R	59	VAL
18	R	106	GLY
1	A	8	LYS
1	A	27	ILE

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Mol	Chain	Res	Type
1	A	28	VAL
1	A	3535	GLY
1	A	4430	TRP
1	A	4562	ASN
2	B	60	ASN
2	B	136	PRO
2	B	799	VAL
2	B	917	ILE
3	C	442	ILE
3	C	529	GLU
3	C	1549	ALA
3	C	2015	GLY
3	C	2247	THR
3	C	2796	PRO
3	C	3054	SER
3	C	3983	ALA
3	C	4090	ASP
3	C	4106	PRO
7	G	20	ARG
7	G	38	LYS
9	I	51	ALA
16	P	62	LYS
18	R	66	LEU
1	A	197	ILE
1	A	1391	LEU
1	A	4563	LYS
2	B	103	ASN
2	B	1124	ILE
3	C	357	ILE
3	C	861	SER
3	C	1170	ALA
3	C	2366	LYS
12	L	15	PRO
17	Q	140	ASP
18	R	65	GLY
1	A	57	TYR
1	A	106	LYS
1	A	1745	ASN
1	A	4190	SER
1	A	4538	LYS
2	B	24	ILE
2	B	47	ASP

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Mol	Chain	Res	Type
2	B	952	PRO
2	B	1333	ILE
2	B	1856	ILE
2	B	3302	ILE
3	C	1277	ASP
3	C	4142	ALA
5	E	45	PRO
7	G	25	ILE
16	P	63	ARG
17	Q	129	ILE
18	R	121	PHE
1	A	3488	LEU
1	A	3585	ASN
1	A	4618	SER
2	B	5	SER
2	B	138	ASN
2	B	659	THR
2	B	1003	ILE
2	B	1499	ASP
2	B	1863	TYR
2	B	4152	ASN
3	C	471	ILE
3	C	2715	PRO
4	D	588	PRO
5	E	263	GLU
15	O	52	ASP
16	P	83	HIS
16	P	119	PRO
18	R	6	MET
18	R	104	THR
2	B	1069	THR
2	B	1680	GLY
2	B	1947	GLY
3	C	881	ILE
3	C	2795	MET
15	O	30	TYR
1	A	1856	ILE
3	C	1401	PRO
7	G	139	PRO
2	B	146	VAL
2	B	477	ILE
2	B	3248	PRO

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Mol	Chain	Res	Type
4	D	435	PRO
4	D	513	PRO
2	B	4148	PRO
4	D	149	PRO
2	B	811	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3430/4197 (82%)	3331 (97%)	99 (3%)	37	56
2	B	3520/4145 (85%)	3432 (98%)	88 (2%)	42	61
3	C	3139/3691 (85%)	3081 (98%)	58 (2%)	54	71
4	D	511/600 (85%)	498 (98%)	13 (2%)	42	61
5	E	488/597 (82%)	469 (96%)	19 (4%)	27	48
6	F	105/109 (96%)	103 (98%)	2 (2%)	52	69
7	G	86/149 (58%)	86 (100%)	0	100	100
8	H	82/83 (99%)	81 (99%)	1 (1%)	67	78
9	I	91/95 (96%)	89 (98%)	2 (2%)	47	65
10	J	82/82 (100%)	81 (99%)	1 (1%)	67	78
11	K	80/82 (98%)	78 (98%)	2 (2%)	42	61
12	L	90/99 (91%)	87 (97%)	3 (3%)	33	52
13	M	78/78 (100%)	78 (100%)	0	100	100
14	N	84/104 (81%)	82 (98%)	2 (2%)	44	62
15	O	108/119 (91%)	107 (99%)	1 (1%)	75	83
17	Q	11/186 (6%)	11 (100%)	0	100	100
All	All	11985/14416 (83%)	11694 (98%)	291 (2%)	45	62

All (291) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	674	LEU
1	A	692	ILE
1	A	696	ILE
1	A	761	LEU
1	A	763	LEU
1	A	794	LEU
1	A	816	VAL
1	A	818	LEU
1	A	871	LEU
1	A	989	ILE
1	A	1081	ILE
1	A	1130	ASP
1	A	1136	MET
1	A	1153	PHE
1	A	1519	THR
1	A	1536	LEU
1	A	1540	GLN
1	A	1550	LYS
1	A	1559	LYS
1	A	1561	VAL
1	A	1564	CYS
1	A	1567	ASN
1	A	1577	LEU
1	A	1581	LEU
1	A	1585	GLN
1	A	1589	GLU
1	A	1605	VAL
1	A	1609	THR
1	A	1618	SER
1	A	1631	PHE
1	A	1634	ILE
1	A	1635	THR
1	A	1644	ASP
1	A	1681	GLU
1	A	1695	LEU
1	A	1711	LEU
1	A	1758	LYS
1	A	1780	LYS
1	A	1792	LYS
1	A	1880	GLU
1	A	1922	CYS
1	A	1995	ARG
1	A	2011	LYS

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Mol	Chain	Res	Type
1	A	2025	LYS
1	A	2026	LYS
1	A	2034	CYS
1	A	2084	SER
1	A	2089	ASP
1	A	2098	LEU
1	A	2122	GLU
1	A	2130	LEU
1	A	2164	SER
1	A	2220	ASN
1	A	2254	LEU
1	A	2290	GLN
1	A	2294	SER
1	A	2337	ILE
1	A	2340	GLN
1	A	2418	ILE
1	A	2426	GLU
1	A	2449	VAL
1	A	2487	ASN
1	A	2679	VAL
1	A	2729	LEU
1	A	2875	SER
1	A	2921	THR
1	A	3043	ILE
1	A	3066	VAL
1	A	3149	THR
1	A	3185	GLU
1	A	3191	LYS
1	A	3192	GLU
1	A	3203	PRO
1	A	3267	LEU
1	A	3306	LEU
1	A	3345	LYS
1	A	3354	ILE
1	A	3495	ILE
1	A	3637	GLU
1	A	3707	LEU
1	A	3973	TYR
1	A	4130	ILE
1	A	4138	SER
1	A	4155	TYR
1	A	4187	LEU

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Mol	Chain	Res	Type
1	A	4194	VAL
1	A	4201	VAL
1	A	4209	ASP
1	A	4287	THR
1	A	4317	GLU
1	A	4328	LEU
1	A	4342	GLU
1	A	4396	GLN
1	A	4465	THR
1	A	4497	SER
1	A	4504	SER
1	A	4524	VAL
1	A	4562	ASN
1	A	4588	ASP
2	B	499	LEU
2	B	654	ASP
2	B	690	LEU
2	B	766	ILE
2	B	799	VAL
2	B	866	ILE
2	B	926	VAL
2	B	1080	LEU
2	B	1103	VAL
2	B	1153	VAL
2	B	1176	VAL
2	B	1183	THR
2	B	1186	PRO
2	B	1201	TYR
2	B	1208	LYS
2	B	1213	PRO
2	B	1623	ASN
2	B	1734	THR
2	B	1735	THR
2	B	1758	LYS
2	B	1772	ILE
2	B	2116	THR
2	B	2121	ILE
2	B	2126	ILE
2	B	2128	ASP
2	B	2219	THR
2	B	2231	LYS
2	B	2252	TYR

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Mol	Chain	Res	Type
2	B	2305	ILE
2	B	2427	ASP
2	B	2514	THR
2	B	2534	ILE
2	B	2574	LEU
2	B	2617	THR
2	B	2655	ASN
2	B	2667	LEU
2	B	2690	SER
2	B	2696	LEU
2	B	2767	LEU
2	B	2776	LYS
2	B	2812	ASN
2	B	2814	ILE
2	B	2862	LEU
2	B	2944	ARG
2	B	2959	LEU
2	B	2963	ASN
2	B	2966	LEU
2	B	2975	PHE
2	B	3031	ILE
2	B	3077	SER
2	B	3107	THR
2	B	3114	LEU
2	B	3119	LYS
2	B	3133	ILE
2	B	3222	PRO
2	B	3269	LEU
2	B	3288	GLN
2	B	3343	ILE
2	B	3353	VAL
2	B	3355	PRO
2	B	3377	VAL
2	B	3461	ILE
2	B	3540	GLN
2	B	3632	HIS
2	B	3644	ILE
2	B	3648	VAL
2	B	3756	MET
2	B	3770	MET
2	B	3800	LEU
2	B	3850	LEU

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Mol	Chain	Res	Type
2	B	3909	ASP
2	B	3915	ASP
2	B	3952	GLN
2	B	4012	PHE
2	B	4047	MET
2	B	4076	LEU
2	B	4149	LYS
2	B	4328	PHE
2	B	4329	ASN
2	B	4334	LYS
2	B	4348	VAL
2	B	4408	LYS
2	B	4454	ILE
2	B	4464	TYR
2	B	4482	GLU
2	B	4513	SER
2	B	4563	LEU
2	B	4570	ARG
3	C	10	LEU
3	C	39	LEU
3	C	85	HIS
3	C	106	LEU
3	C	113	ILE
3	C	114	LEU
3	C	177	LEU
3	C	214	LEU
3	C	232	TYR
3	C	336	ILE
3	C	346	LEU
3	C	352	LEU
3	C	354	VAL
3	C	1098	CYS
3	C	1318	ASP
3	C	1321	SER
3	C	1358	ILE
3	C	1453	CYS
3	C	1499	CYS
3	C	1526	ILE
3	C	1660	ASP
3	C	1757	CYS
3	C	1884	CYS
3	C	1981	ASN

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Mol	Chain	Res	Type
3	C	2016	LYS
3	C	2043	ASN
3	C	2122	THR
3	C	2177	ILE
3	C	2224	LEU
3	C	2225	SER
3	C	2244	CYS
3	C	2265	ILE
3	C	2295	ILE
3	C	2406	CYS
3	C	2432	ASN
3	C	2488	ILE
3	C	2576	LYS
3	C	2596	LEU
3	C	2820	ILE
3	C	2899	LEU
3	C	3058	GLU
3	C	3059	ASN
3	C	3062	GLU
3	C	3115	ILE
3	C	3131	LEU
3	C	3405	ARG
3	C	3579	VAL
3	C	3602	GLN
3	C	3787	MET
3	C	3793	THR
3	C	3844	LYS
3	C	3868	CYS
3	C	3918	VAL
3	C	3986	SER
3	C	3997	LEU
3	C	4050	GLN
3	C	4113	VAL
3	C	4146	MET
4	D	66	LEU
4	D	79	ASN
4	D	115	TYR
4	D	134	LYS
4	D	172	GLU
4	D	180	ILE
4	D	314	VAL
4	D	353	LEU

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Mol	Chain	Res	Type
4	D	369	ASP
4	D	402	VAL
4	D	458	CYS
4	D	584	ILE
4	D	593	LEU
5	E	27	TYR
5	E	37	ILE
5	E	139	GLU
5	E	202	LEU
5	E	218	VAL
5	E	225	GLN
5	E	304	LEU
5	E	316	ILE
5	E	353	VAL
5	E	355	ILE
5	E	361	LEU
5	E	377	ASN
5	E	386	VAL
5	E	446	ILE
5	E	457	LEU
5	E	460	ILE
5	E	517	LYS
5	E	556	GLU
5	E	560	HIS
6	F	28	GLU
6	F	62	VAL
8	H	29	LYS
9	I	78	ILE
9	I	95	LEU
10	J	21	PHE
11	K	42	ILE
11	K	65	HIS
12	L	59	LYS
12	L	66	GLU
12	L	77	ILE
14	N	43	VAL
14	N	117	VAL
15	O	46	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (280) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	575	ASN
1	A	741	ASN
1	A	837	GLN
1	A	852	ASN
1	A	900	ASN
1	A	952	GLN
1	A	968	HIS
1	A	1041	ASN
1	A	1047	ASN
1	A	1051	GLN
1	A	1101	HIS
1	A	1146	GLN
1	A	1165	ASN
1	A	1193	GLN
1	A	1276	GLN
1	A	1444	GLN
1	A	1460	ASN
1	A	1533	GLN
1	A	1537	GLN
1	A	1566	GLN
1	A	1578	ASN
1	A	1585	GLN
1	A	1655	GLN
1	A	1663	ASN
1	A	1666	ASN
1	A	1708	GLN
1	A	1718	GLN
1	A	1788	GLN
1	A	1897	ASN
1	A	1901	GLN
1	A	1916	GLN
1	A	1940	GLN
1	A	1950	GLN
1	A	2037	GLN
1	A	2095	ASN
1	A	2125	ASN
1	A	2220	ASN
1	A	2221	ASN
1	A	2243	ASN
1	A	2267	ASN
1	A	2276	ASN
1	A	2279	ASN
1	A	2369	GLN

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Mol	Chain	Res	Type
1	A	2458	GLN
1	A	2487	ASN
1	A	2508	ASN
1	A	2598	ASN
1	A	2619	ASN
1	A	2654	GLN
1	A	2735	HIS
1	A	2771	ASN
1	A	2795	ASN
1	A	2889	GLN
1	A	3067	HIS
1	A	3084	GLN
1	A	3112	GLN
1	A	3113	GLN
1	A	3122	ASN
1	A	3226	ASN
1	A	3343	HIS
1	A	3344	GLN
1	A	3466	ASN
1	A	3504	ASN
1	A	3506	GLN
1	A	3539	ASN
1	A	3606	GLN
1	A	3651	GLN
1	A	3694	ASN
1	A	3746	GLN
1	A	3772	ASN
1	A	3801	ASN
1	A	3815	ASN
1	A	3918	ASN
1	A	4044	GLN
1	A	4079	HIS
1	A	4088	GLN
1	A	4274	ASN
1	A	4450	ASN
1	A	4539	ASN
1	A	4562	ASN
1	A	4574	ASN
2	B	544	HIS
2	B	581	ASN
2	B	658	GLN
2	B	764	GLN

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Mol	Chain	Res	Type
2	B	775	GLN
2	B	791	HIS
2	B	796	ASN
2	B	854	ASN
2	B	885	GLN
2	B	894	ASN
2	B	923	GLN
2	B	939	ASN
2	B	957	GLN
2	B	967	GLN
2	B	975	ASN
2	B	1079	ASN
2	B	1081	GLN
2	B	1131	HIS
2	B	1135	HIS
2	B	1530	ASN
2	B	1566	ASN
2	B	1623	ASN
2	B	1626	ASN
2	B	1726	ASN
2	B	1820	GLN
2	B	1827	ASN
2	B	1870	ASN
2	B	1956	ASN
2	B	1969	GLN
2	B	1993	GLN
2	B	2005	ASN
2	B	2038	ASN
2	B	2148	GLN
2	B	2203	ASN
2	B	2214	ASN
2	B	2325	ASN
2	B	2345	ASN
2	B	2355	ASN
2	B	2462	ASN
2	B	2476	GLN
2	B	2492	ASN
2	B	2504	GLN
2	B	2591	ASN
2	B	2635	ASN
2	B	2638	GLN
2	B	2646	GLN

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Mol	Chain	Res	Type
2	B	2693	ASN
2	B	2724	ASN
2	B	2738	GLN
2	B	2758	GLN
2	B	2812	ASN
2	B	2963	ASN
2	B	2967	ASN
2	B	3042	ASN
2	B	3049	HIS
2	B	3081	ASN
2	B	3086	HIS
2	B	3104	ASN
2	B	3238	HIS
2	B	3288	GLN
2	B	3301	ASN
2	B	3309	GLN
2	B	3407	GLN
2	B	3430	ASN
2	B	3475	ASN
2	B	3521	ASN
2	B	3619	ASN
2	B	3640	GLN
2	B	3709	ASN
2	B	3769	HIS
2	B	3820	HIS
2	B	3861	ASN
2	B	3873	GLN
2	B	3879	ASN
2	B	4106	ASN
2	B	4137	HIS
2	B	4152	ASN
2	B	4170	ASN
2	B	4177	GLN
2	B	4209	ASN
2	B	4243	ASN
2	B	4267	HIS
2	B	4420	GLN
3	C	9	GLN
3	C	17	GLN
3	C	105	ASN
3	C	126	ASN
3	C	164	HIS

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Mol	Chain	Res	Type
3	C	213	GLN
3	C	246	HIS
3	C	252	ASN
3	C	281	ASN
3	C	1051	GLN
3	C	1126	ASN
3	C	1238	GLN
3	C	1300	GLN
3	C	1309	GLN
3	C	1340	GLN
3	C	1428	ASN
3	C	1570	GLN
3	C	1572	HIS
3	C	1727	ASN
3	C	1752	ASN
3	C	1863	HIS
3	C	1888	GLN
3	C	1981	ASN
3	C	2018	GLN
3	C	2043	ASN
3	C	2052	GLN
3	C	2074	GLN
3	C	2101	GLN
3	C	2123	GLN
3	C	2207	HIS
3	C	2217	ASN
3	C	2421	GLN
3	C	2432	ASN
3	C	2455	GLN
3	C	2483	ASN
3	C	2708	GLN
3	C	2743	ASN
3	C	2828	GLN
3	C	2947	ASN
3	C	3004	ASN
3	C	3051	ASN
3	C	3103	HIS
3	C	3597	ASN
3	C	3626	ASN
3	C	3631	GLN
3	C	3654	HIS
3	C	3693	GLN

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Mol	Chain	Res	Type
3	C	3751	ASN
3	C	3773	GLN
3	C	3819	ASN
3	C	3879	GLN
3	C	3958	ASN
3	C	4040	GLN
3	C	4050	GLN
3	C	4102	HIS
3	C	4109	ASN
4	D	64	GLN
4	D	79	ASN
4	D	144	GLN
4	D	174	GLN
4	D	177	ASN
4	D	262	HIS
4	D	294	GLN
4	D	298	ASN
4	D	356	HIS
4	D	405	ASN
4	D	413	ASN
4	D	493	GLN
4	D	509	ASN
4	D	510	ASN
4	D	512	HIS
4	D	572	ASN
4	D	592	ASN
5	E	31	GLN
5	E	44	ASN
5	E	59	HIS
5	E	87	ASN
5	E	122	GLN
5	E	237	ASN
5	E	259	ASN
5	E	366	HIS
5	E	377	ASN
5	E	408	HIS
5	E	450	HIS
5	E	481	GLN
5	E	498	GLN
5	E	526	GLN
6	F	36	HIS
6	F	57	ASN

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Mol	Chain	Res	Type
6	F	64	GLN
7	G	129	GLN
7	G	133	ASN
7	G	149	GLN
8	H	3	HIS
8	H	36	ASN
8	H	54	HIS
9	I	39	GLN
9	I	66	ASN
9	I	76	GLN
9	I	90	GLN
9	I	100	ASN
10	J	63	HIS
11	K	76	ASN
12	L	19	HIS
12	L	28	GLN
12	L	91	ASN
13	M	2	ASN
13	M	64	HIS
13	M	78	ASN
14	N	78	HIS
14	N	84	GLN
14	N	89	GLN
14	N	104	ASN
15	O	93	GLN
15	O	106	GLN
15	O	109	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 18 ligands modelled in this entry, 9 are monoatomic - leaving 9 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
20	ATP	A	4702	21	26,33,33	0.93	1 (3%)	31,52,52	1.40	4 (12%)
19	ADP	A	4701	21	24,29,29	0.95	1 (4%)	29,45,45	1.44	5 (17%)
19	ADP	B	5406	21	24,29,29	0.66	0	29,45,45	0.75	1 (3%)
19	ADP	C	4306	21	24,29,29	0.66	0	29,45,45	0.86	2 (6%)
19	ADP	C	4305	21	24,29,29	0.70	1 (4%)	29,45,45	1.03	2 (6%)
20	ATP	C	4302	21	26,33,33	0.69	0	31,52,52	0.89	2 (6%)
20	ATP	B	5403	21	26,33,33	0.66	0	31,52,52	0.83	1 (3%)
19	ADP	B	5405	21	24,29,29	0.65	0	29,45,45	0.93	2 (6%)
19	ADP	A	4703	21	24,29,29	0.94	1 (4%)	29,45,45	1.47	4 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	ATP	A	4702	21	-	3/18/38/38	0/3/3/3
19	ADP	A	4701	21	-	7/12/32/32	0/3/3/3
19	ADP	B	5406	21	-	2/12/32/32	0/3/3/3
19	ADP	C	4306	21	-	4/12/32/32	0/3/3/3
19	ADP	C	4305	21	-	5/12/32/32	0/3/3/3
20	ATP	C	4302	21	-	1/18/38/38	0/3/3/3
20	ATP	B	5403	21	-	1/18/38/38	0/3/3/3
19	ADP	B	5405	21	-	1/12/32/32	0/3/3/3
19	ADP	A	4703	21	-	6/12/32/32	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	4703	ADP	C5-C4	2.32	1.47	1.40
19	A	4701	ADP	C5-C4	2.29	1.47	1.40
20	A	4702	ATP	C5-C4	2.11	1.46	1.40
19	C	4305	ADP	C8-N7	-2.11	1.30	1.34

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	A	4702	ATP	PB-O3B-PG	-3.71	120.09	132.83
19	A	4703	ADP	PA-O3A-PB	-3.55	120.64	132.83
19	A	4701	ADP	C3'-C2'-C1'	3.52	106.28	100.98
19	A	4703	ADP	C3'-C2'-C1'	3.47	106.19	100.98
20	A	4702	ATP	N3-C2-N1	-3.27	123.57	128.68
19	A	4701	ADP	N3-C2-N1	-3.02	123.96	128.68
19	A	4703	ADP	N3-C2-N1	-3.01	123.97	128.68
19	A	4701	ADP	C4-C5-N7	-2.99	106.28	109.40
20	A	4702	ATP	PA-O3A-PB	-2.97	122.63	132.83
20	A	4702	ATP	C4-C5-N7	-2.79	106.50	109.40
19	B	5405	ADP	O4'-C1'-C2'	-2.72	102.95	106.93
19	C	4305	ADP	C1'-N9-C4	2.68	131.36	126.64
19	A	4703	ADP	C4-C5-N7	-2.56	106.73	109.40
19	A	4701	ADP	PA-O3A-PB	-2.54	124.10	132.83
19	B	5406	ADP	C5-C6-N6	2.38	123.97	120.35
20	B	5403	ATP	C5-C6-N6	2.34	123.91	120.35
19	B	5405	ADP	C5-C6-N6	2.28	123.81	120.35
20	C	4302	ATP	C5-C6-N6	2.22	123.73	120.35
19	C	4306	ADP	C5-C6-N6	2.22	123.72	120.35
20	C	4302	ATP	O4'-C1'-C2'	-2.04	103.94	106.93
19	C	4306	ADP	C3'-C2'-C1'	2.04	104.05	100.98
19	A	4701	ADP	O3B-PB-O2B	2.03	115.41	107.64
19	C	4305	ADP	C5-C6-N6	2.02	123.42	120.35

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	A	4701	ADP	PB-O3A-PA-O5'
19	A	4701	ADP	C5'-O5'-PA-O1A
19	A	4701	ADP	C5'-O5'-PA-O2A
19	A	4703	ADP	PB-O3A-PA-O5'
19	A	4703	ADP	C5'-O5'-PA-O1A
19	B	5405	ADP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
19	C	4305	ADP	C5'-O5'-PA-O1A
19	C	4306	ADP	O4'-C4'-C5'-O5'
19	A	4701	ADP	O4'-C4'-C5'-O5'
19	A	4703	ADP	O4'-C4'-C5'-O5'
19	C	4305	ADP	C3'-C4'-C5'-O5'
19	C	4306	ADP	C3'-C4'-C5'-O5'
20	A	4702	ATP	O4'-C4'-C5'-O5'
19	C	4305	ADP	O4'-C4'-C5'-O5'
19	A	4703	ADP	C3'-C4'-C5'-O5'
20	A	4702	ATP	C3'-C4'-C5'-O5'
19	A	4703	ADP	C5'-O5'-PA-O3A
19	A	4703	ADP	C5'-O5'-PA-O2A
19	C	4305	ADP	C5'-O5'-PA-O2A
19	A	4701	ADP	C4'-C5'-O5'-PA
19	C	4306	ADP	PB-O3A-PA-O2A
20	B	5403	ATP	O4'-C4'-C5'-O5'
20	C	4302	ATP	O4'-C4'-C5'-O5'
19	A	4701	ADP	C5'-O5'-PA-O3A
19	C	4305	ADP	C5'-O5'-PA-O3A
19	A	4701	ADP	PB-O3A-PA-O1A
19	C	4306	ADP	PB-O3A-PA-O1A
20	A	4702	ATP	PB-O3A-PA-O2A
19	B	5406	ADP	O4'-C4'-C5'-O5'
19	B	5406	ADP	C4'-C5'-O5'-PA

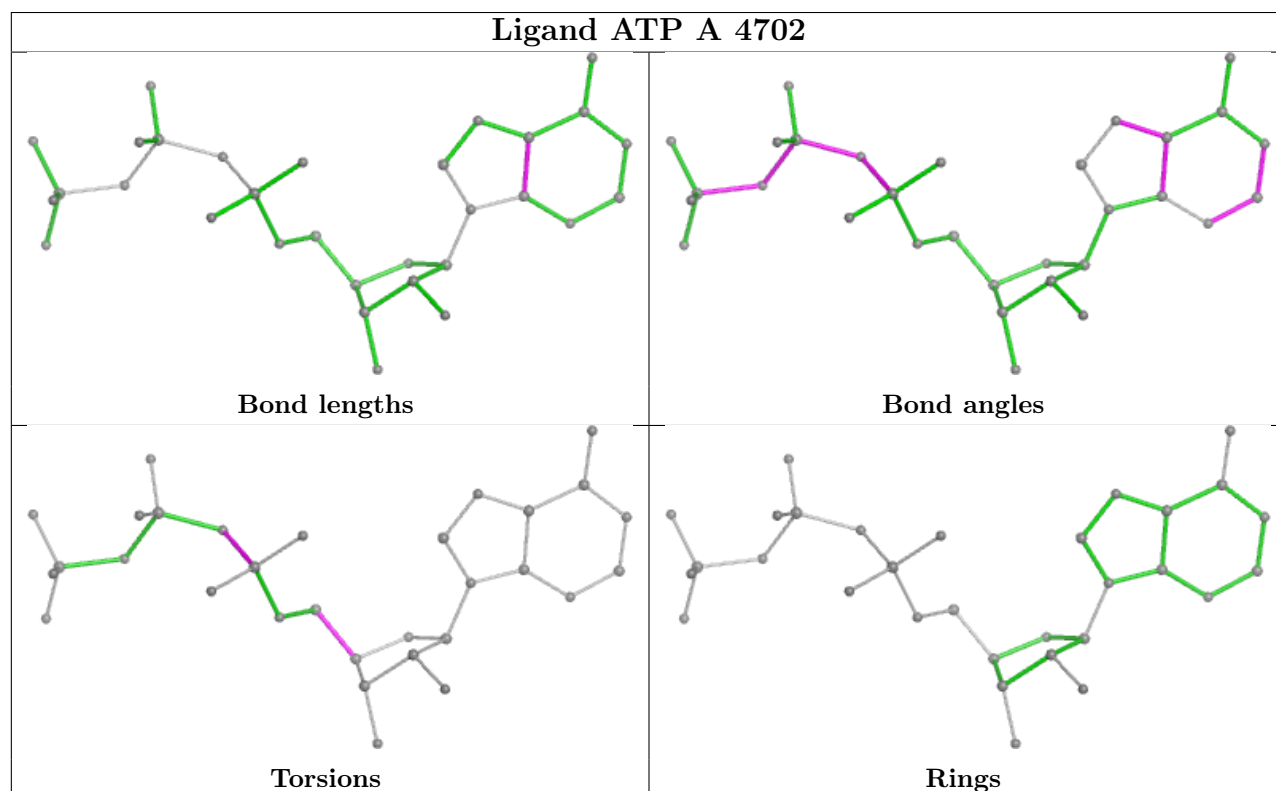
There are no ring outliers.

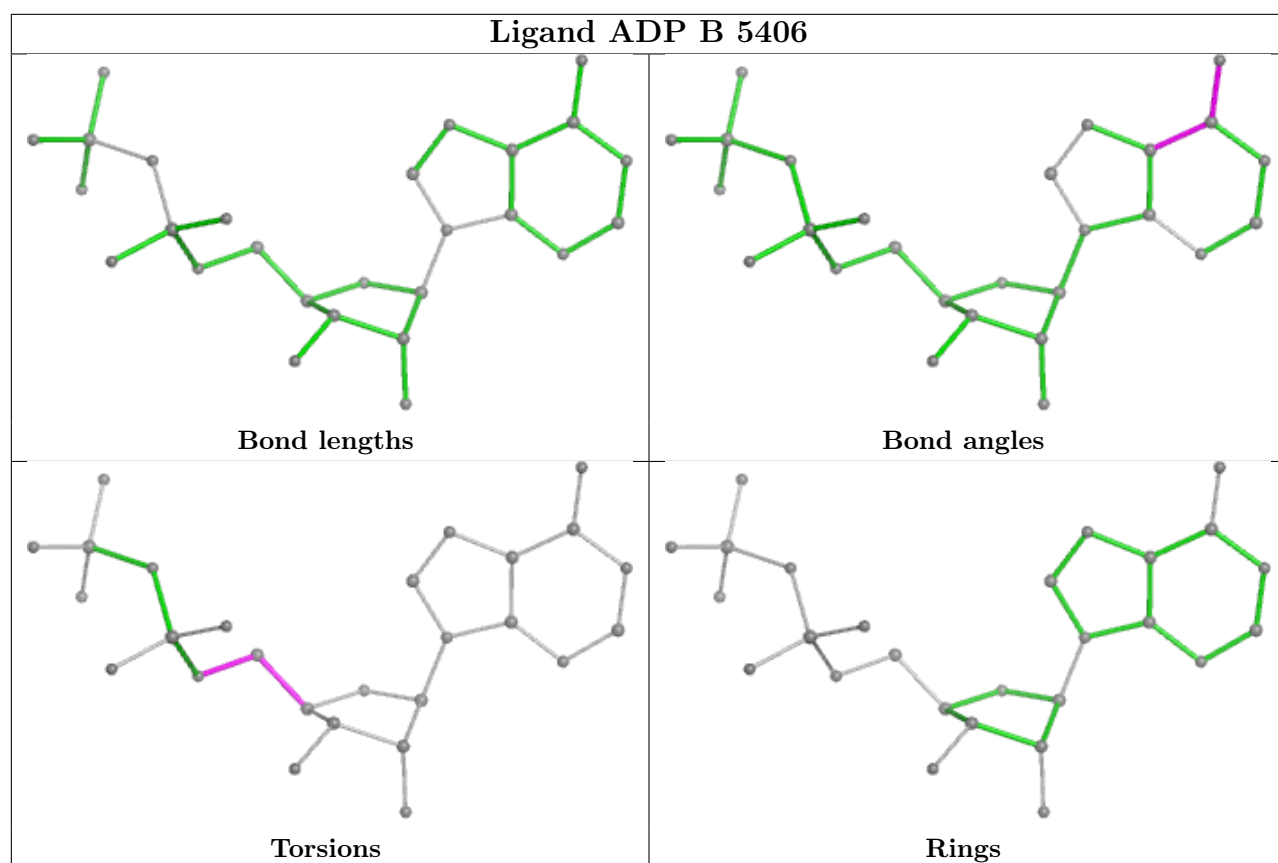
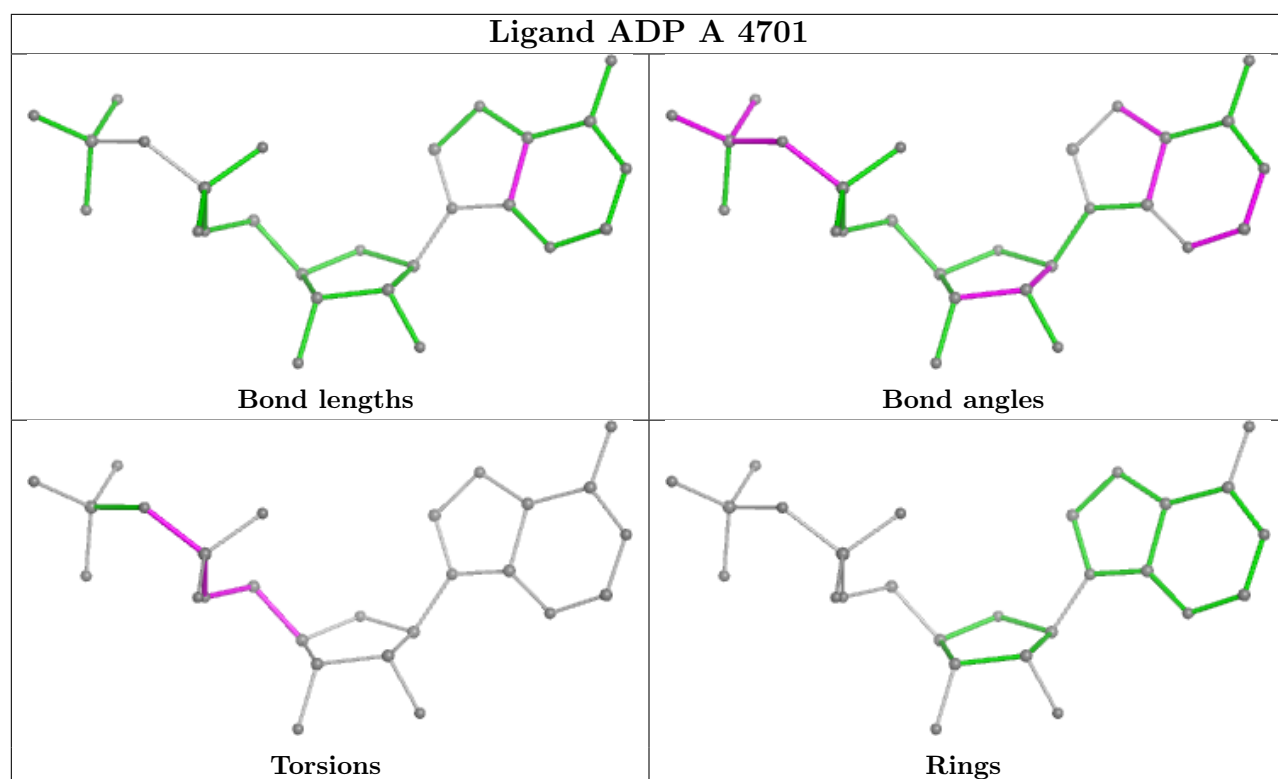
9 monomers are involved in 142 short contacts:

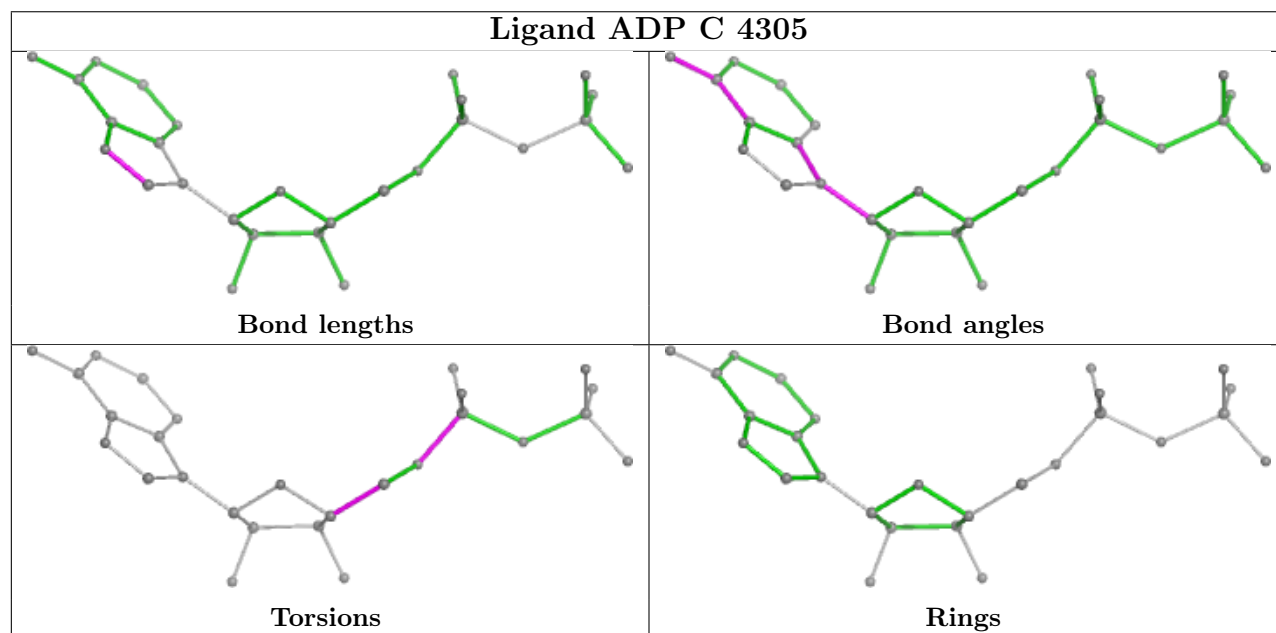
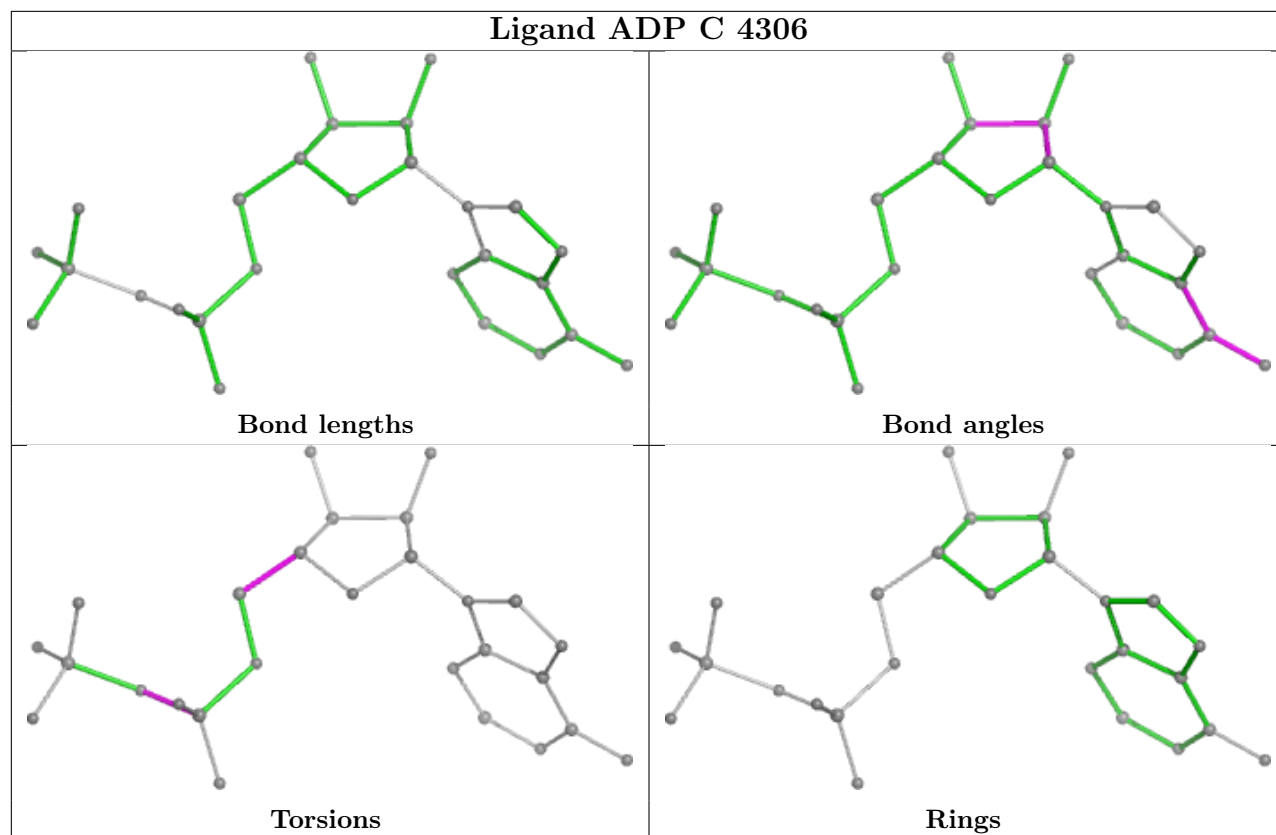
Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	A	4702	ATP	10	0
19	A	4701	ADP	13	0
19	B	5406	ADP	3	0
19	C	4306	ADP	9	0
19	C	4305	ADP	25	0
20	C	4302	ATP	1	0
20	B	5403	ATP	44	0
19	B	5405	ADP	16	0
19	A	4703	ADP	21	0

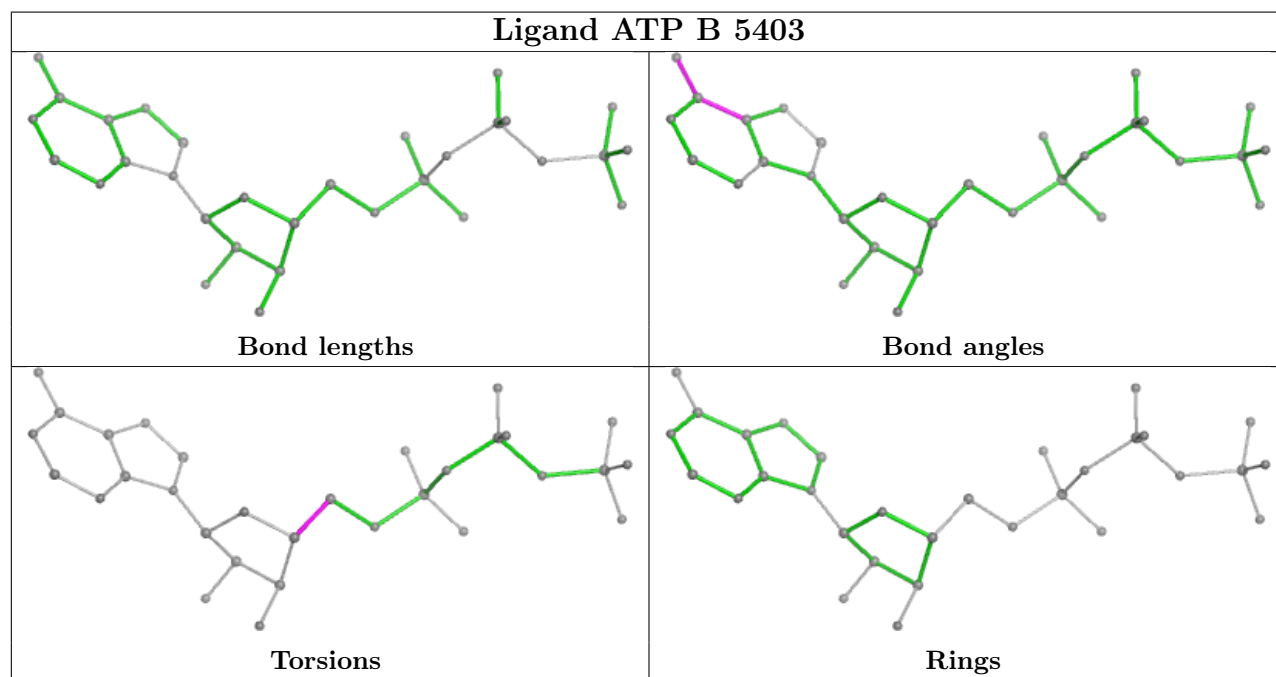
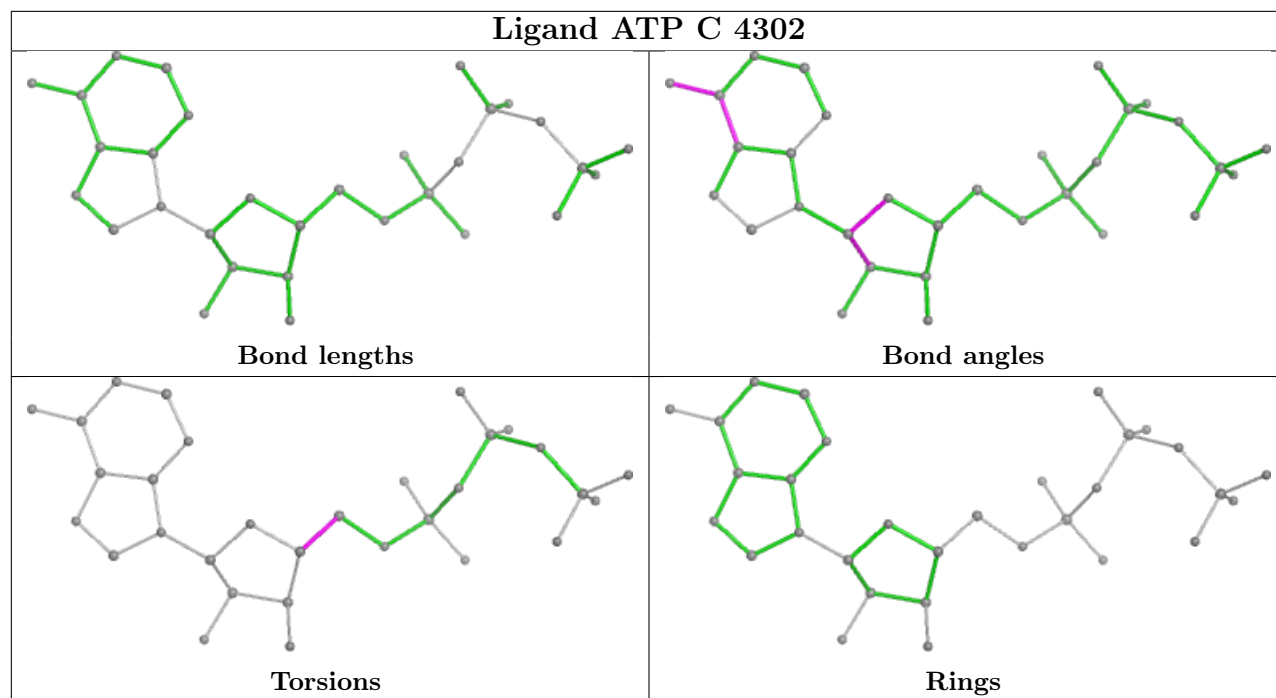
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

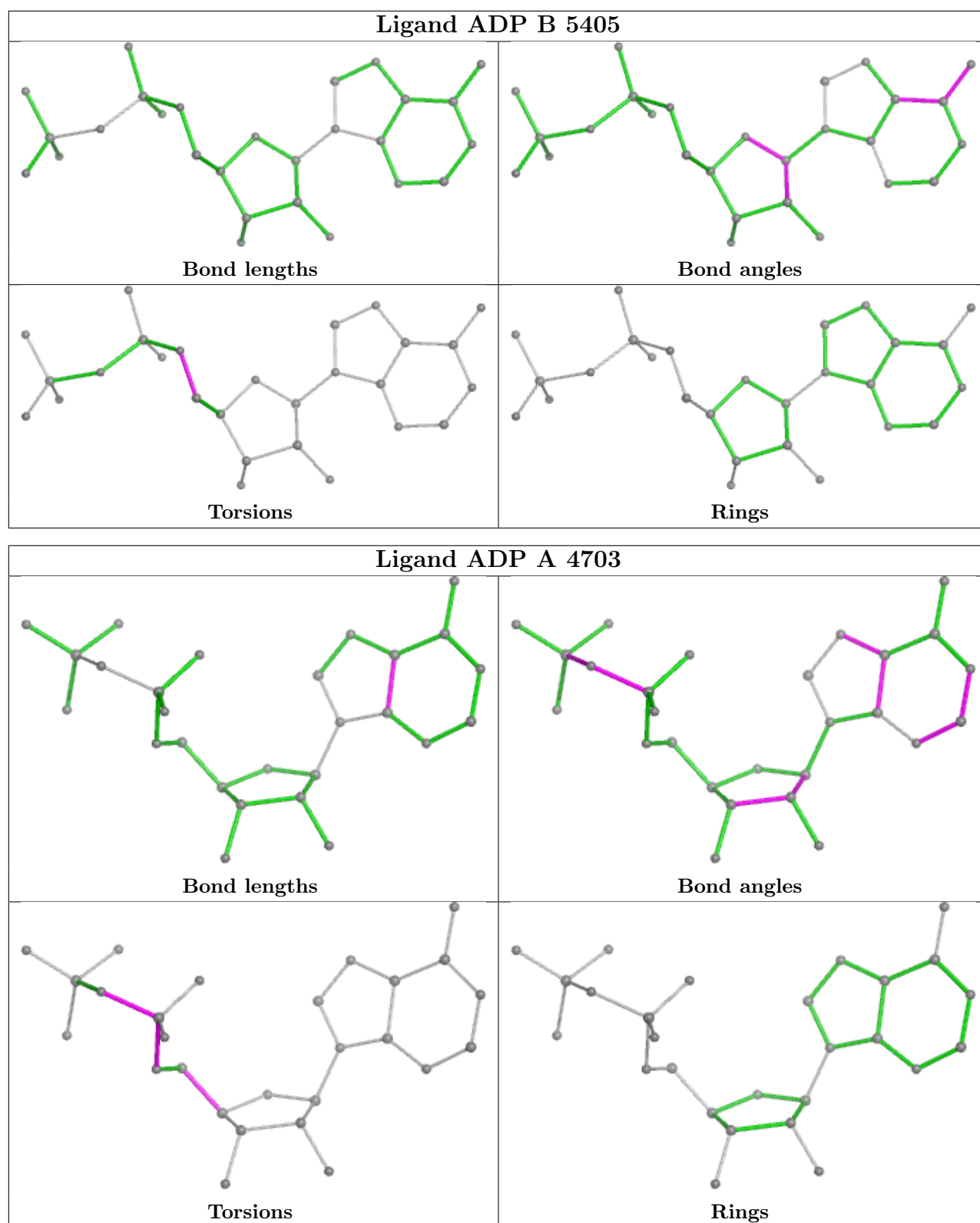
also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.











5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	B	10
1	A	9
16	P	4
4	D	2
7	G	1
18	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	3250:PRO	C	3251:ILE	N	5.80
1	A	3251:ILE	C	3252:GLN	N	4.89
1	A	24:LYS	C	25:ASP	N	3.36
1	B	79:PRO	C	80:PRO	N	3.22
1	D	216:HIS	C	217:GLN	N	2.93
1	A	115:ASP	C	116:ASN	N	2.81
1	A	40:LEU	C	41:LEU	N	2.76
1	A	5:LYS	C	6:TYR	N	2.67
1	A	53:ILE	C	54:PHE	N	2.45
1	G	58:SER	C	59:GLU	N	2.19
1	B	50:GLN	C	51:GLY	N	2.17
1	P	39:TRP	C	40:SER	N	2.17
1	B	52:PHE	C	53:ILE	N	2.15
1	B	70:LYS	C	71:CYS	N	2.10
1	D	238:SER	C	239:THR	N	2.02
1	P	15:SER	C	16:GLU	N	1.81
1	B	799:VAL	C	800:LYS	N	1.71
1	R	82:ALA	C	83:ASN	N	1.71
1	A	943:THR	C	944:LEU	N	1.69
1	B	55:GLN	C	56:ASP	N	1.60
1	P	61:GLU	C	62:LYS	N	1.60
1	B	99:LEU	C	100:THR	N	1.19
1	B	49:PHE	C	50:GLN	N	1.18
1	B	56:ASP	C	57:ASN	N	0.96
1	A	1649:ALA	C	1650:LEU	N	0.94
1	P	62:LYS	C	63:ARG	N	0.63
1	B	59:THR	C	60:ASN	N	0.44

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-16312. These allow visual inspection of the internal detail of the map and identification of artifacts.

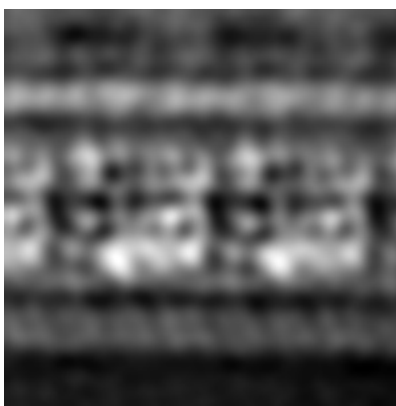
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

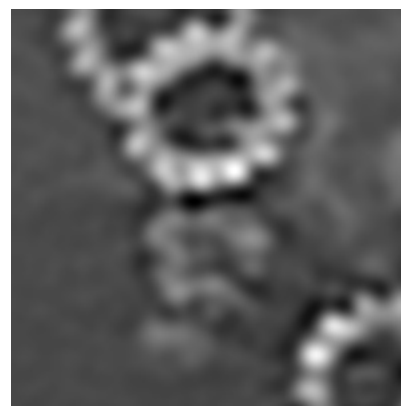
6.1.1 Primary map



X

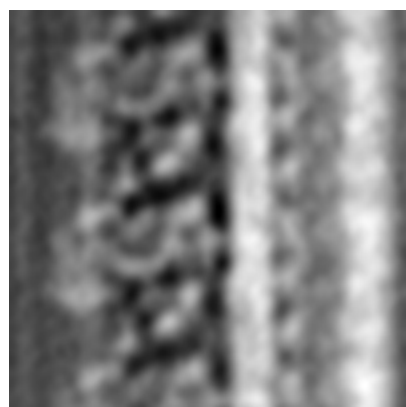


Y

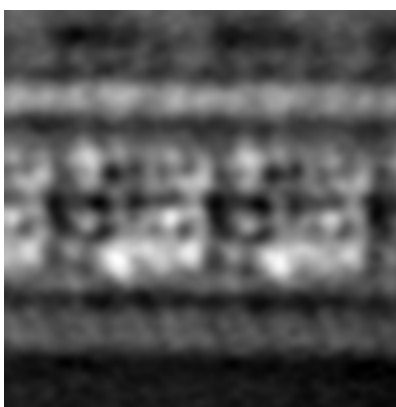


Z

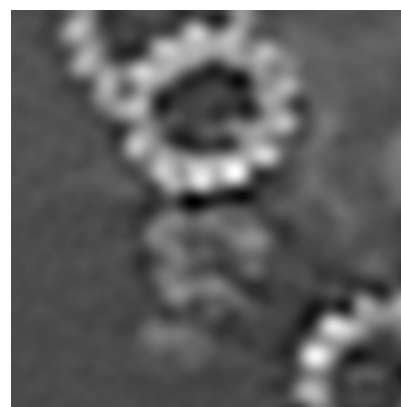
6.1.2 Raw map



X



Y



Z

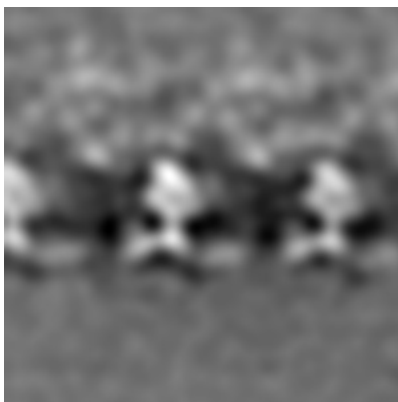
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 37

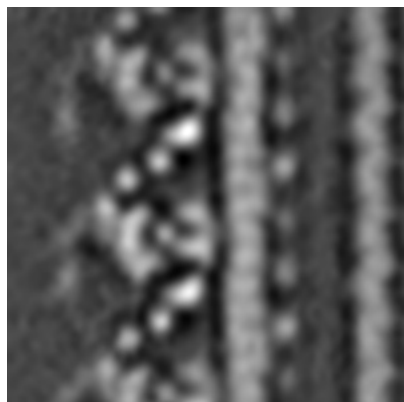


Y Index: 37

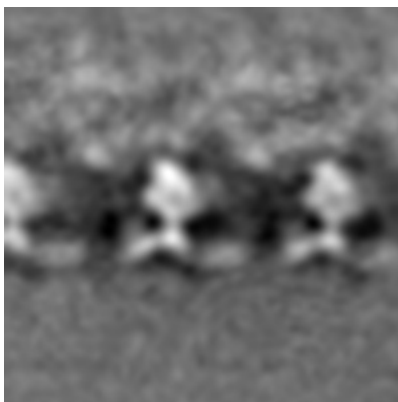


Z Index: 37

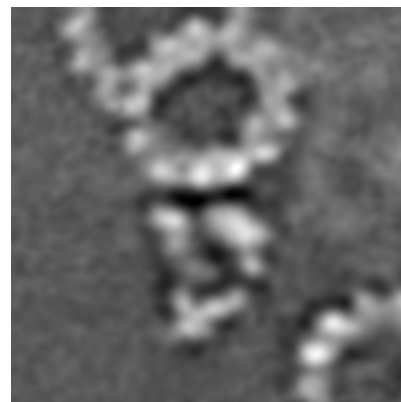
6.2.2 Raw map



X Index: 37



Y Index: 37



Z Index: 37

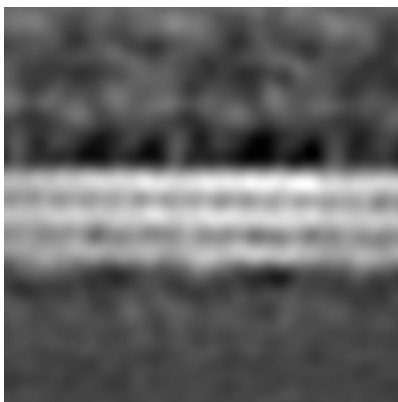
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 41



Y Index: 43

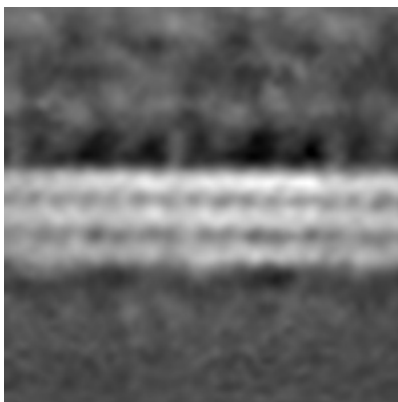


Z Index: 21

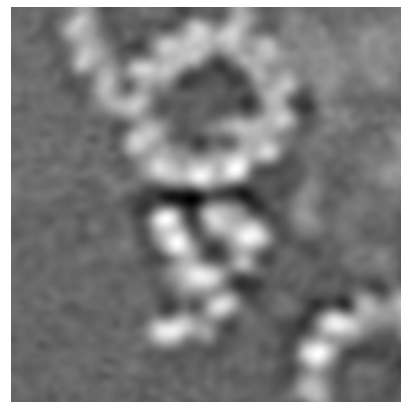
6.3.2 Raw map



X Index: 41



Y Index: 43

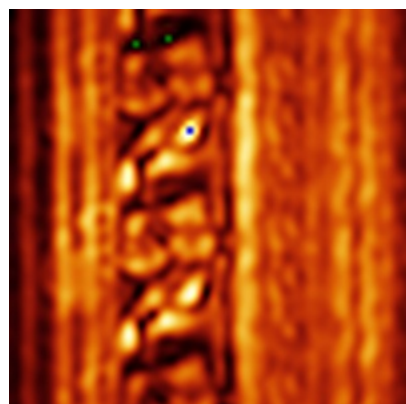


Z Index: 35

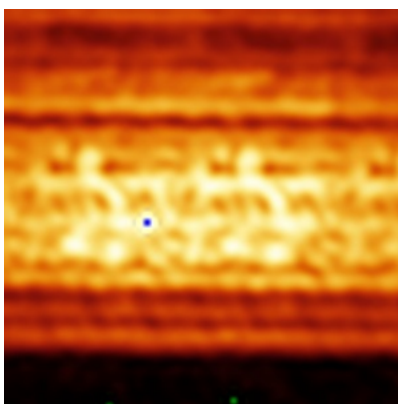
The images above show the largest variance slices of the map in three orthogonal directions.

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

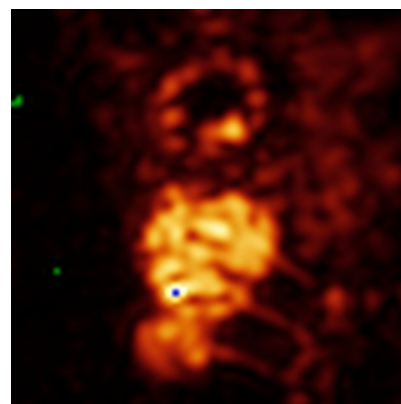
6.4.1 Primary map



X

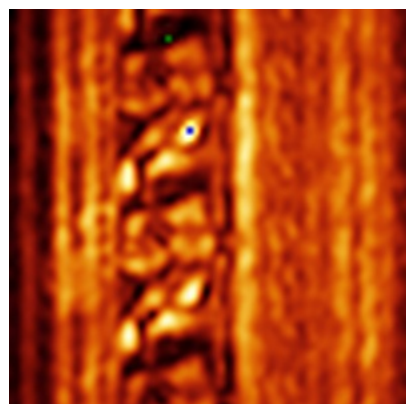


Y

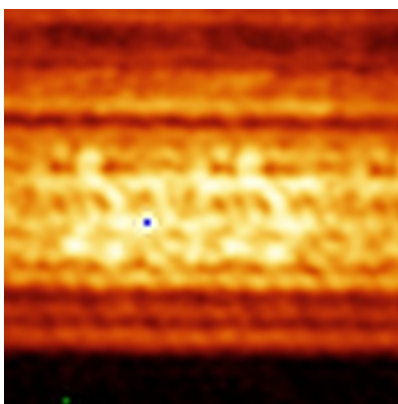


Z

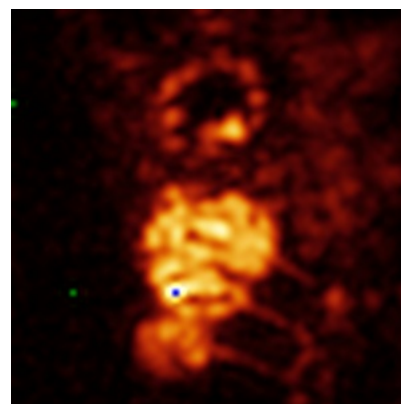
6.4.2 Raw map



X



Y

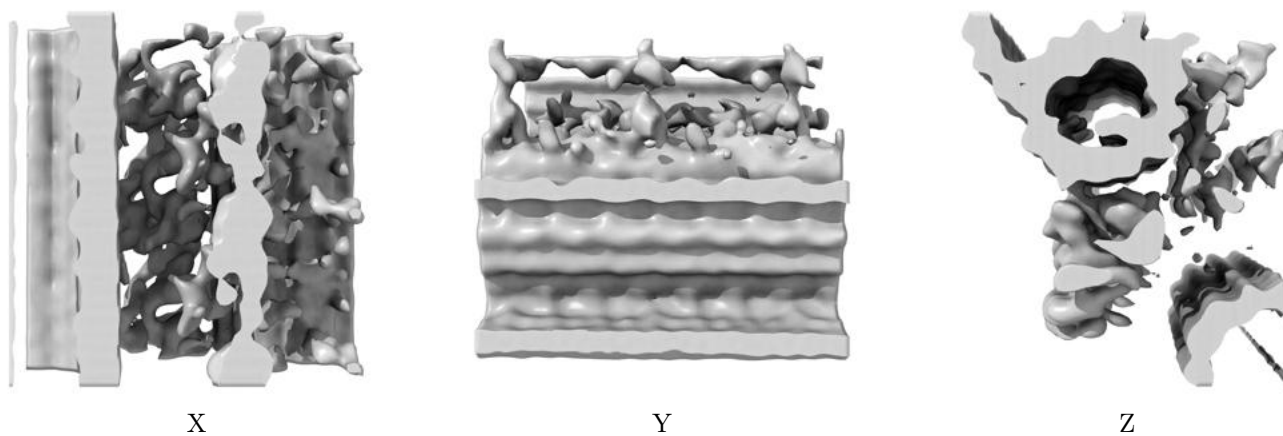


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

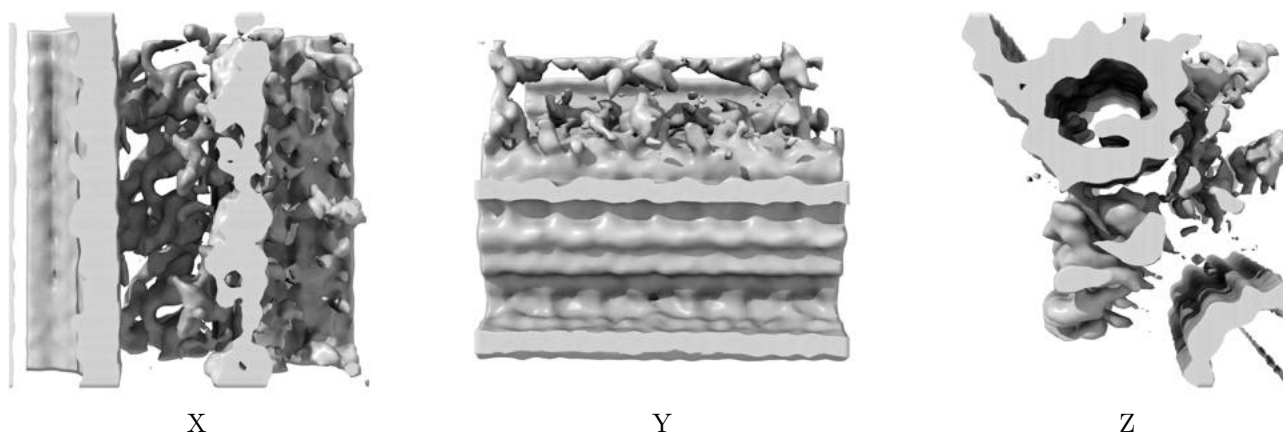
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.14. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

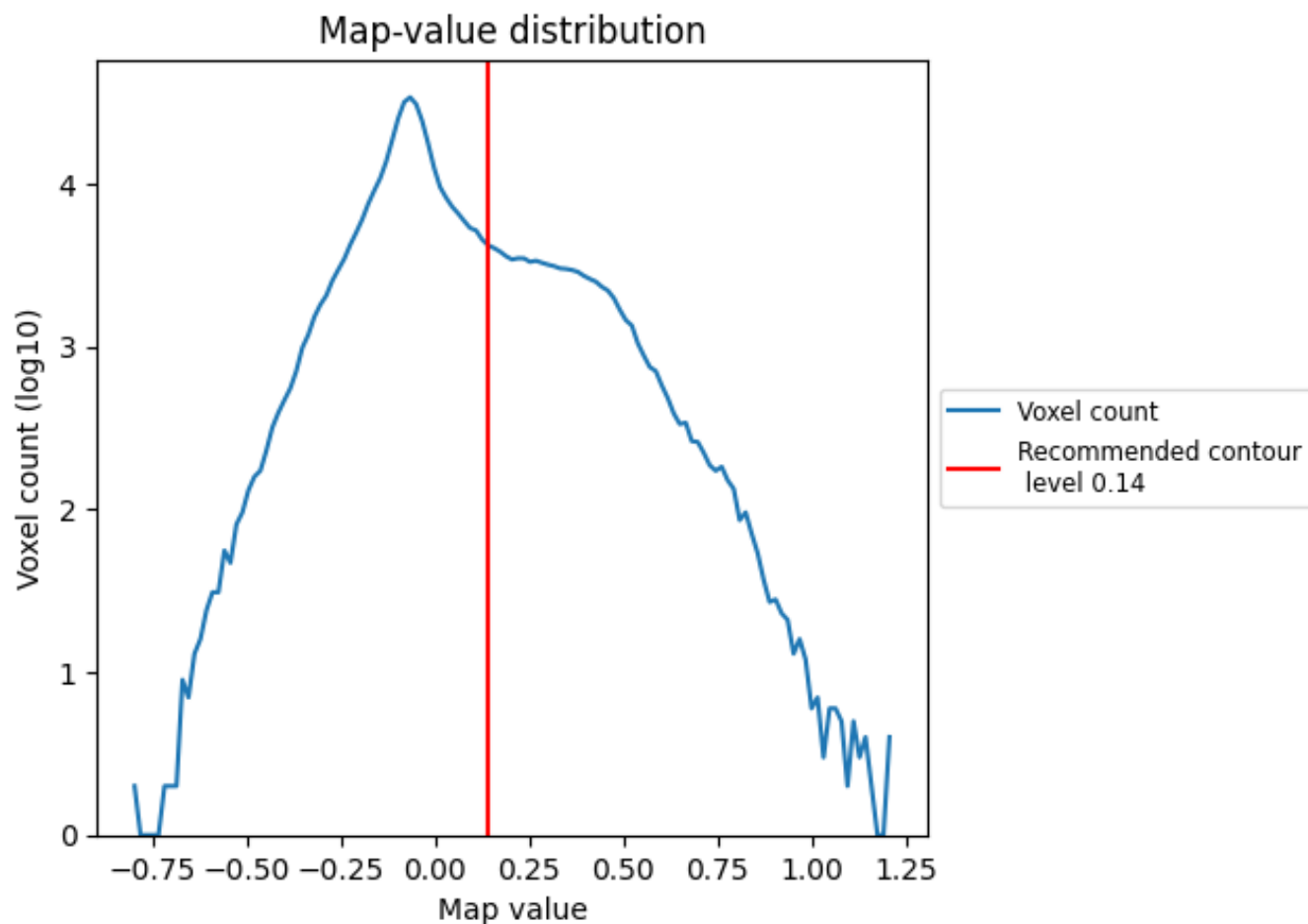
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

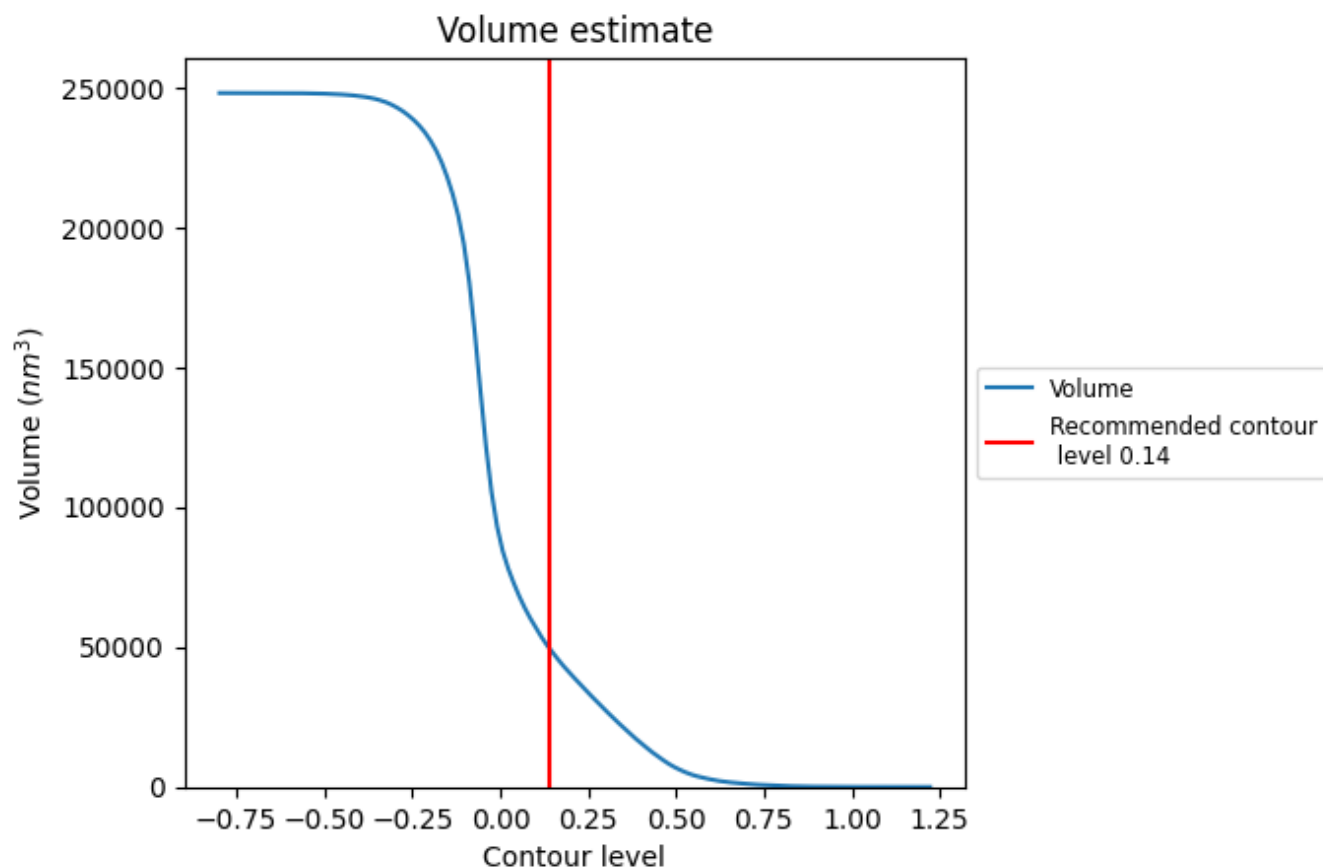
This section contains the results of statistical analysis of the map.

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.

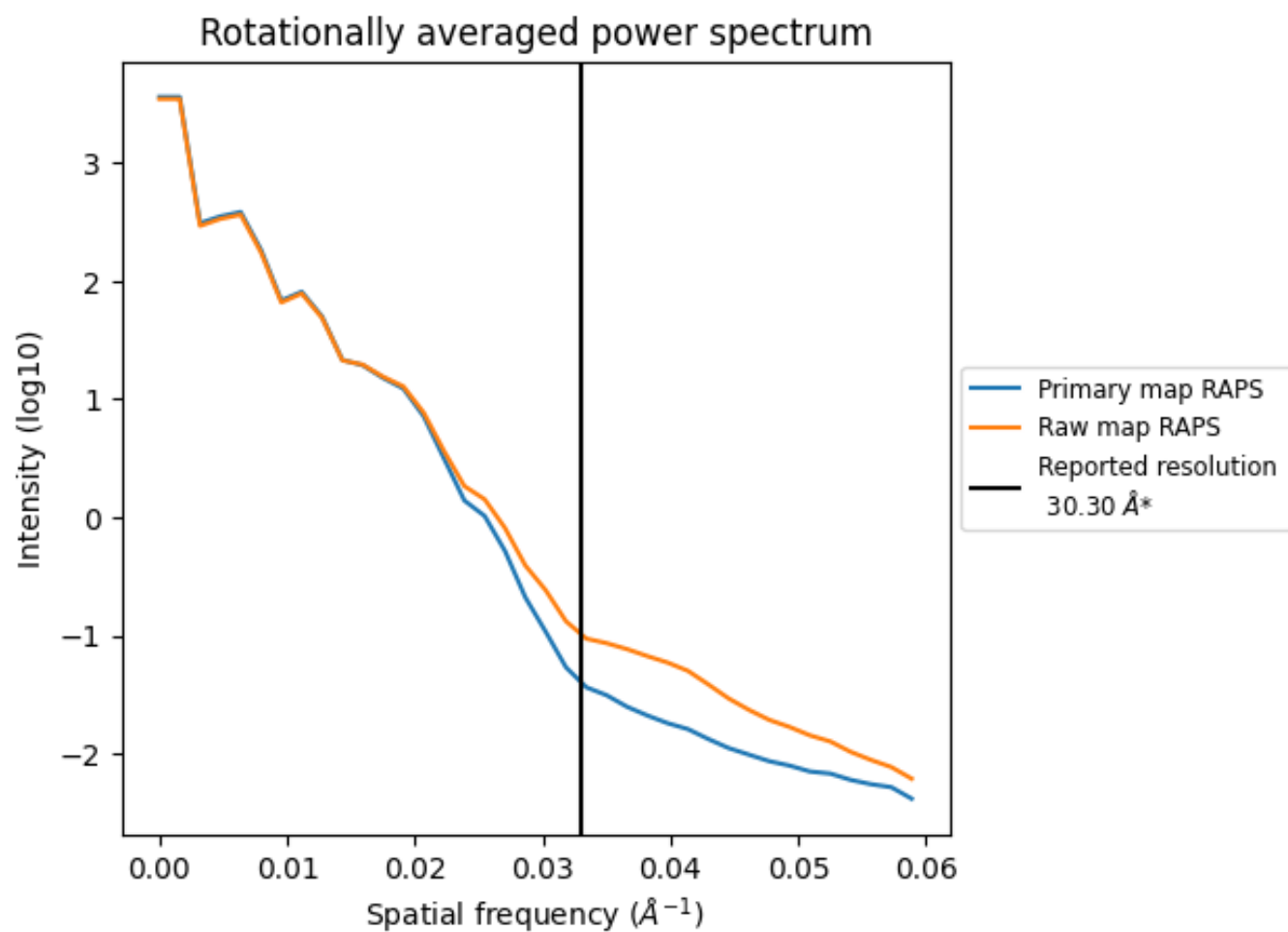
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 49562 nm³; this corresponds to an approximate mass of 44771 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

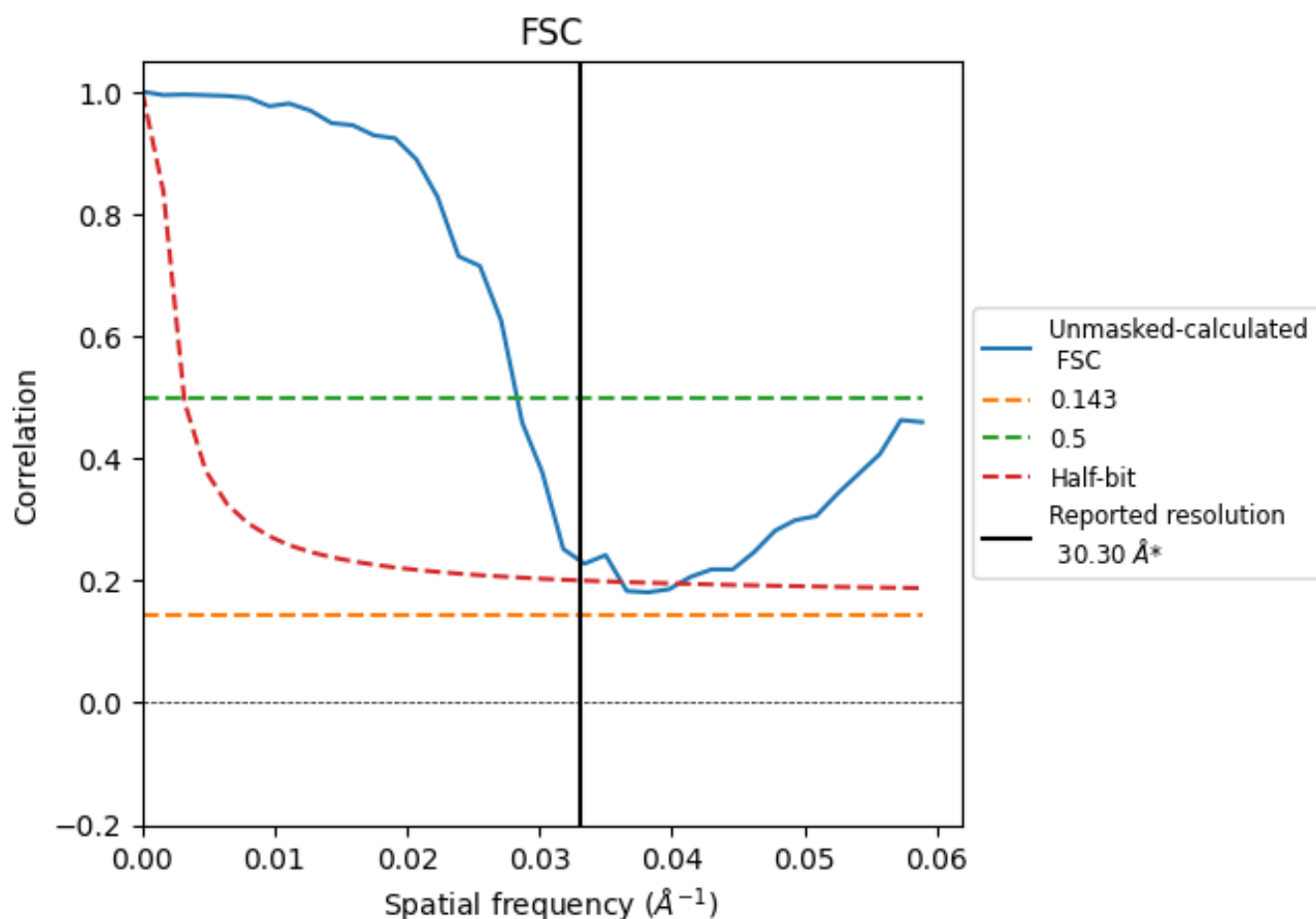


*Reported resolution corresponds to spatial frequency of 0.033 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.033 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

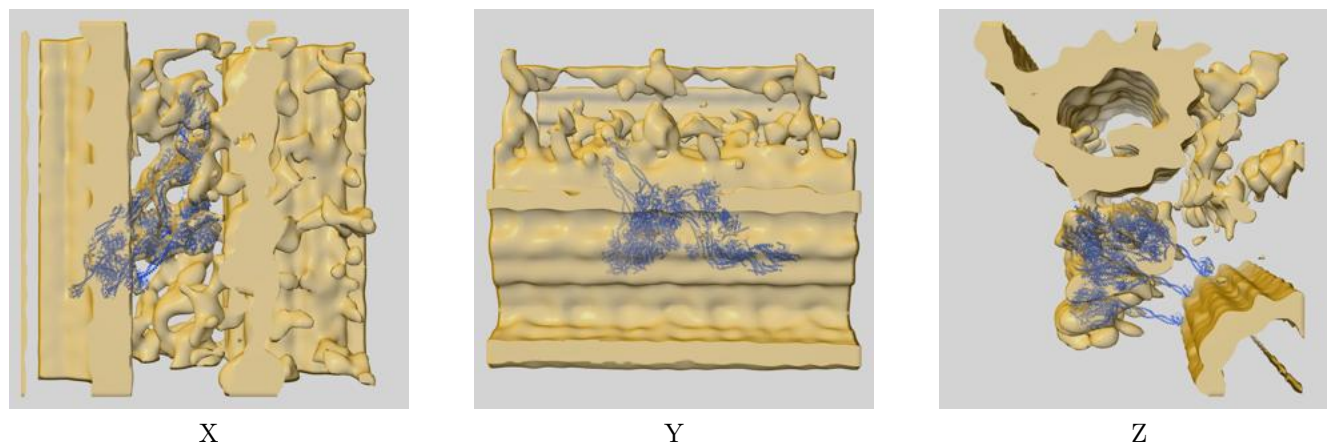
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	30.30	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	-	35.34	27.62

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

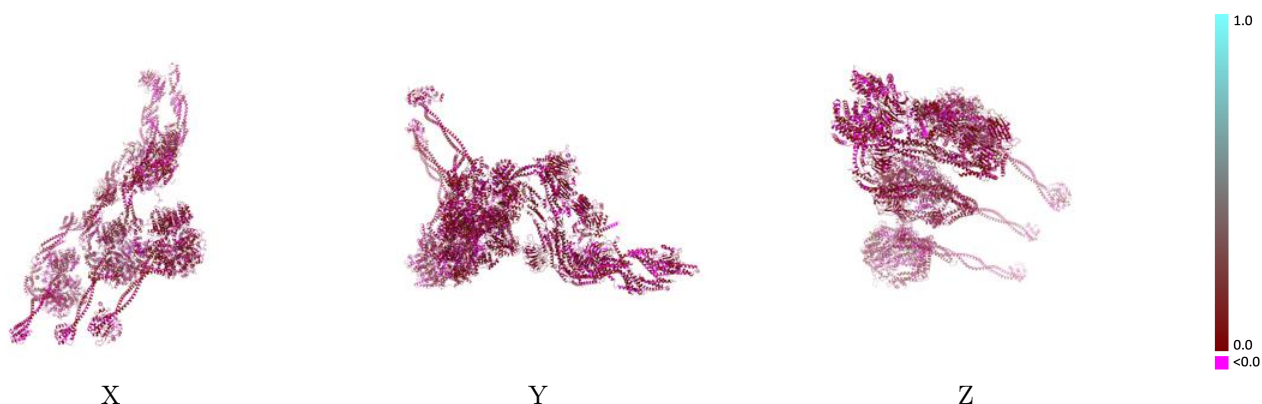
This section contains information regarding the fit between EMDB map EMD-16312 and PDB model 8BX8. Per-residue inclusion information can be found in section [3](#) on page [9](#).

9.1 Map-model overlay [i](#)



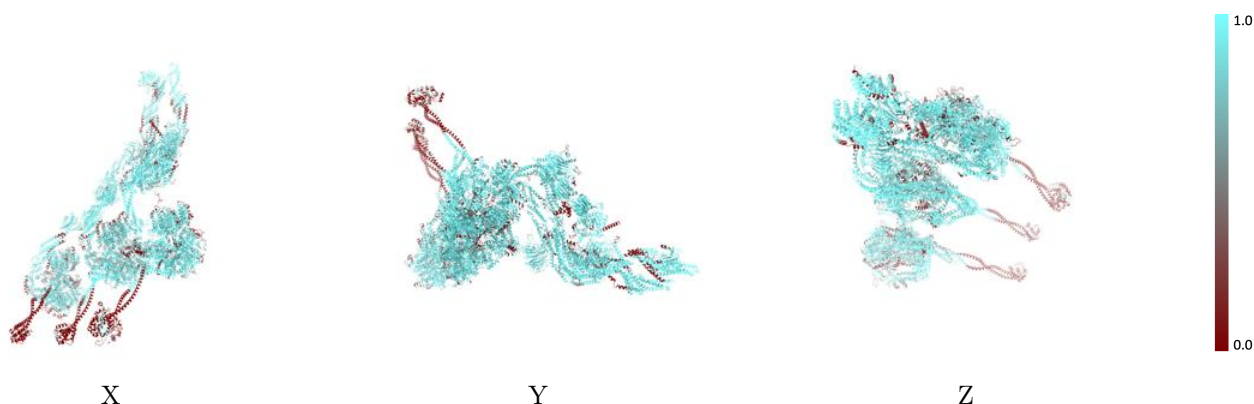
The images above show the 3D surface view of the map at the recommended contour level 0.14 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



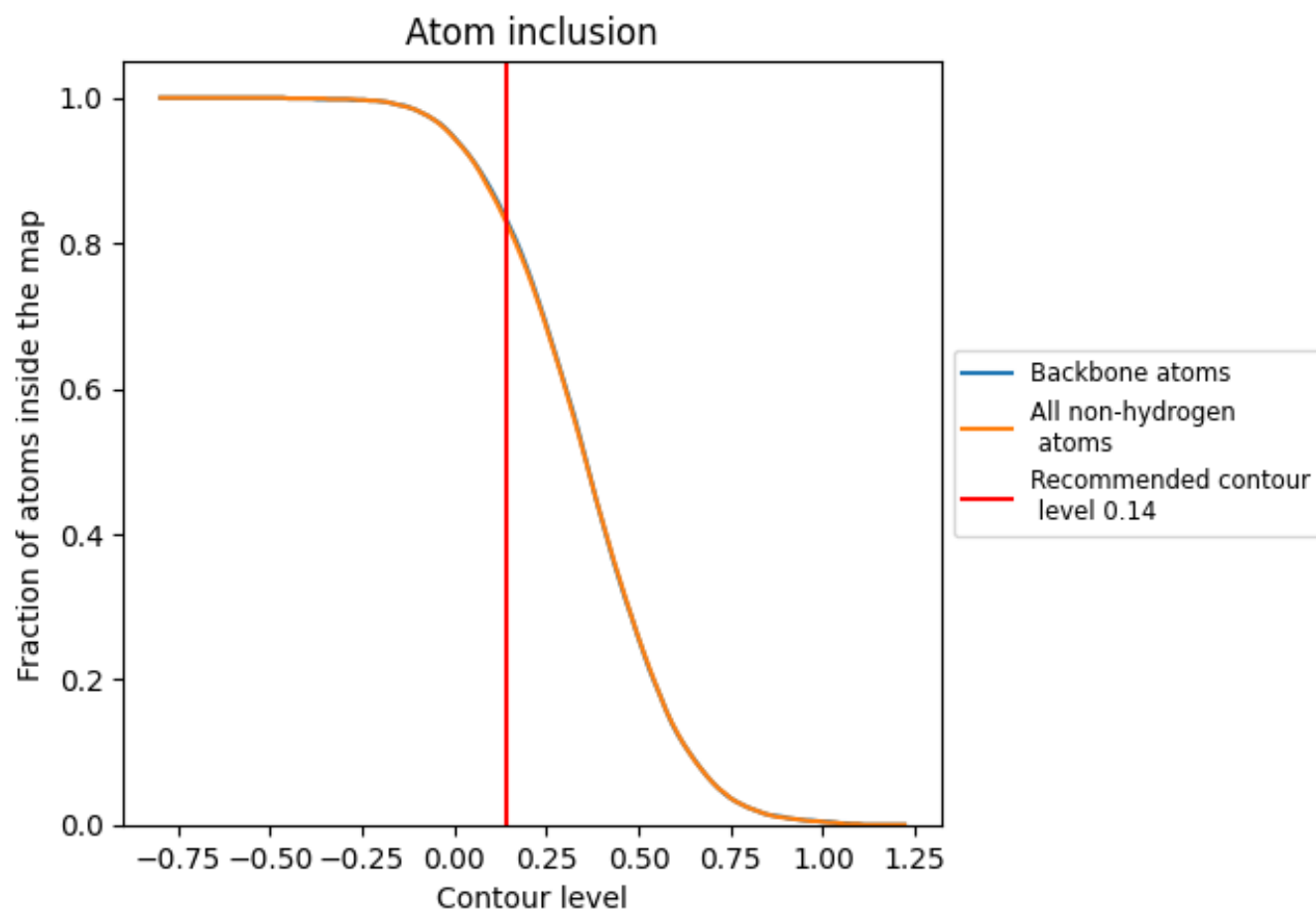
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.14).

9.4 Atom inclusion [i](#)



At the recommended contour level, 83% of all backbone atoms, 83% 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 (0.14) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8300	 0.0430
A	 0.8230	 0.0470
B	 0.8570	 0.0480
C	 0.7930	 0.0360
D	 0.9090	 0.0380
E	 0.9000	 0.0390
F	 0.8060	 0.0450
G	 0.7350	 0.0200
H	 0.9840	 0.0390
I	 0.8590	 0.0400
J	 0.9870	 0.0630
K	 0.9720	 0.0530
L	 0.8830	 0.0290
M	 0.9310	 0.0400
N	 0.8960	 0.0440
O	 0.9600	 0.0410
P	 0.9850	 0.0670
Q	 0.2450	 0.0610
R	 0.3110	 -0.0180

