



Full wwPDB EM Validation Report ⓘ

Mar 19, 2024 – 02:33 PM JST

PDB ID : 5GL1
EMDB ID : EMD-9521
Title : Structure of RyR1 in an open state
Authors : Bai, X.C.; Yan, Z.; Wu, J.P.; Yan, N.
Deposited on : 2016-07-07
Resolution : 5.70 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:

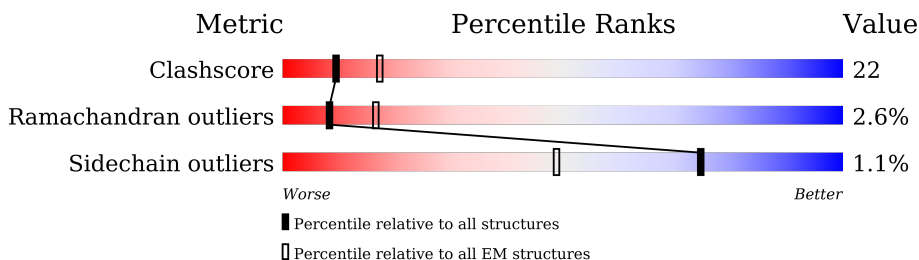
EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance

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

The reported resolution of this entry is 5.70 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	C	5037	
1	E	5037	
1	G	5037	
2	B	108	
2	D	108	
2	F	108	
2	H	108	

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 110704 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	3645	26843	17063	4667	4956	157	0	0
1	C	3645	26843	17063	4667	4956	157	0	0
1	E	3645	26843	17063	4667	4956	157	0	0
1	G	3645	26843	17063	4667	4956	157	0	0

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	107	832	527	146	155	4	0	0
2	D	107	832	527	146	155	4	0	0
2	F	107	832	527	146	155	4	0	0
2	H	107	832	527	146	155	4	0	0

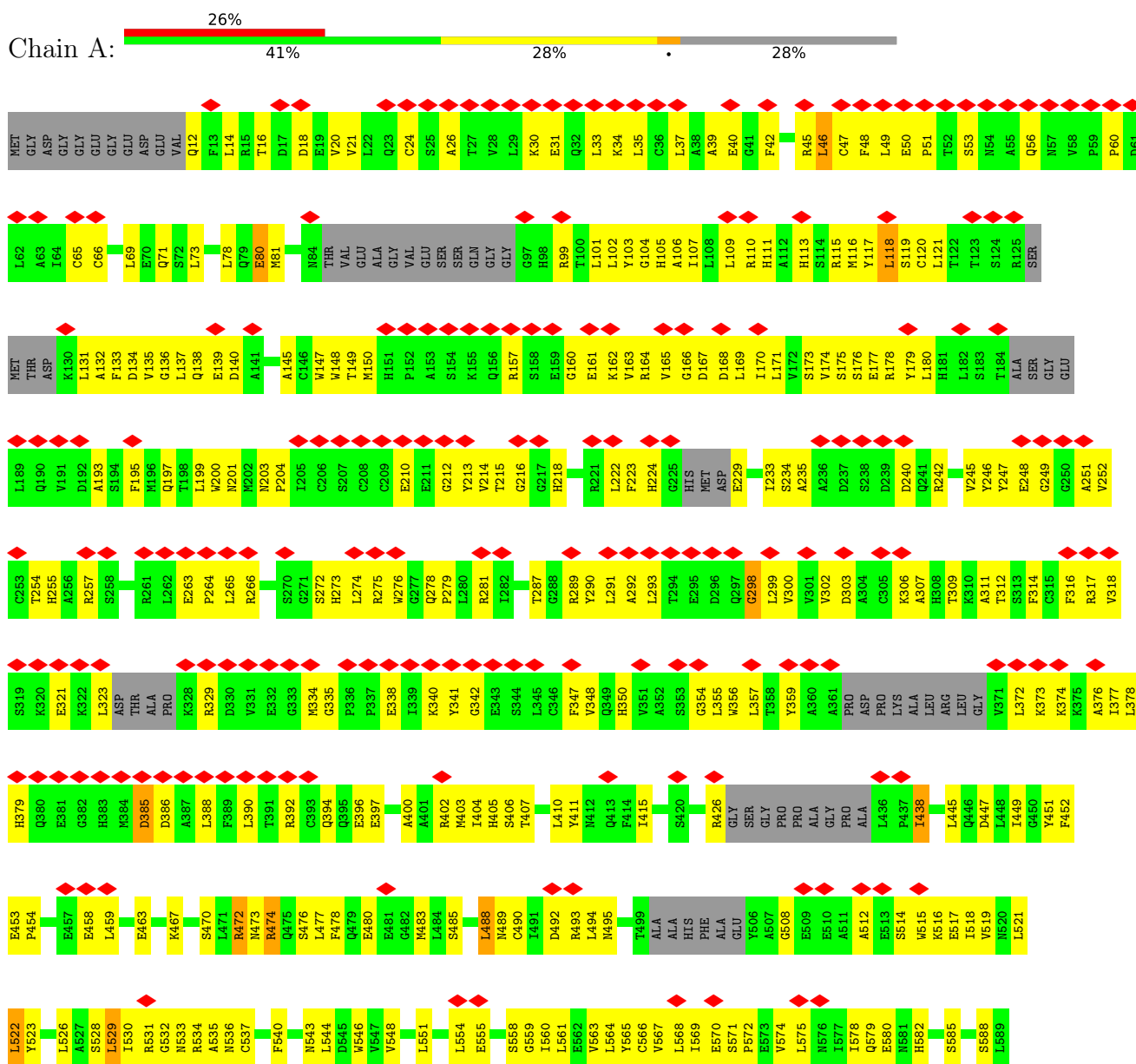
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
3	A	1	Total	Zn	0
			1	1	
3	C	1	Total	Zn	0
			1	1	
3	E	1	Total	Zn	0
			1	1	
3	G	1	Total	Zn	0
			1	1	

3 Residue-property plots

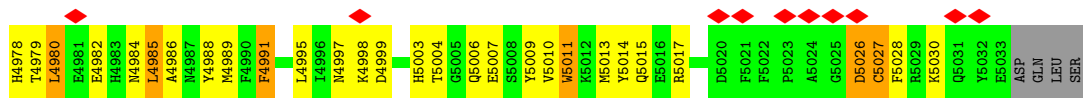
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Ryanodine receptor 1

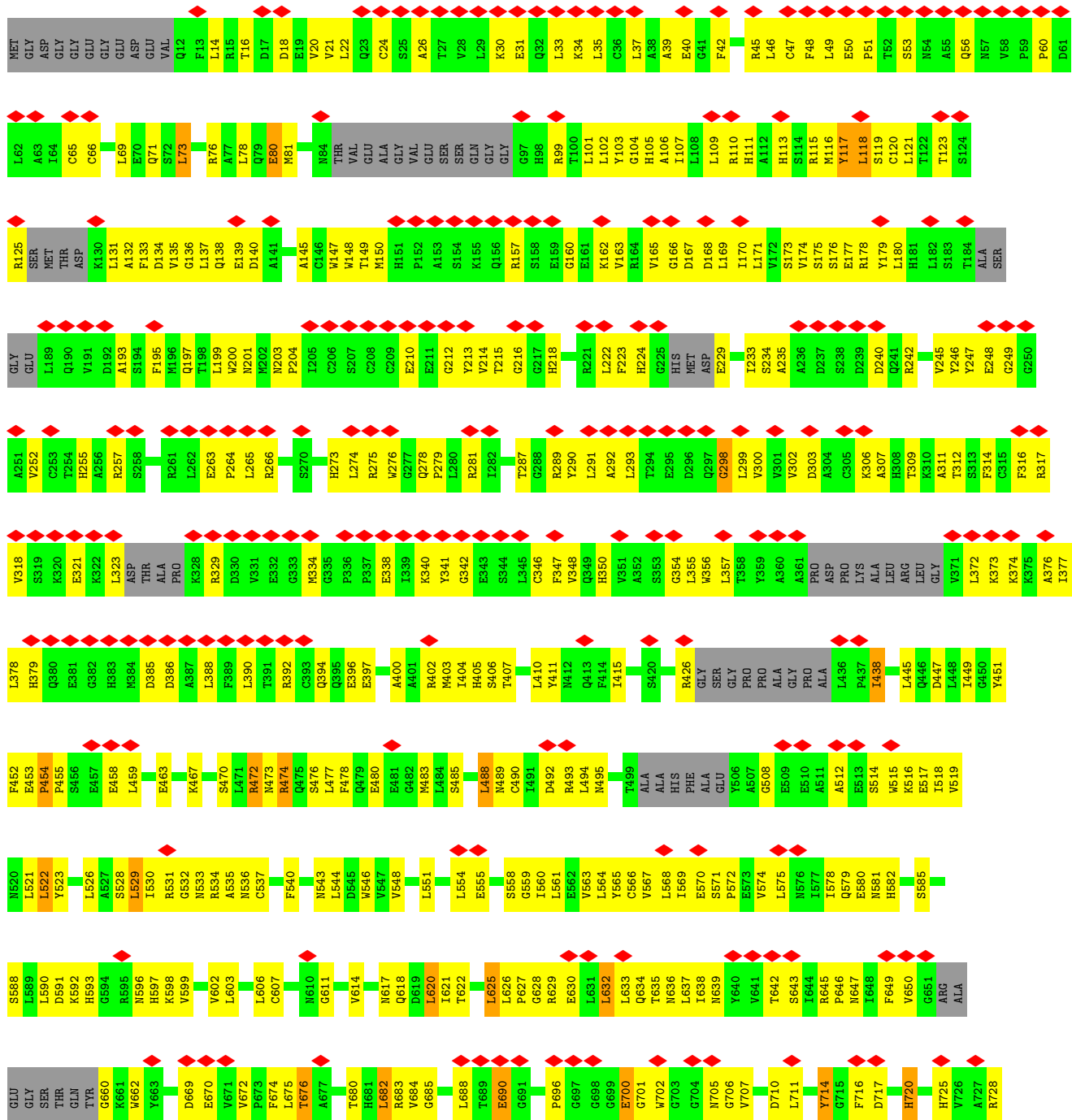


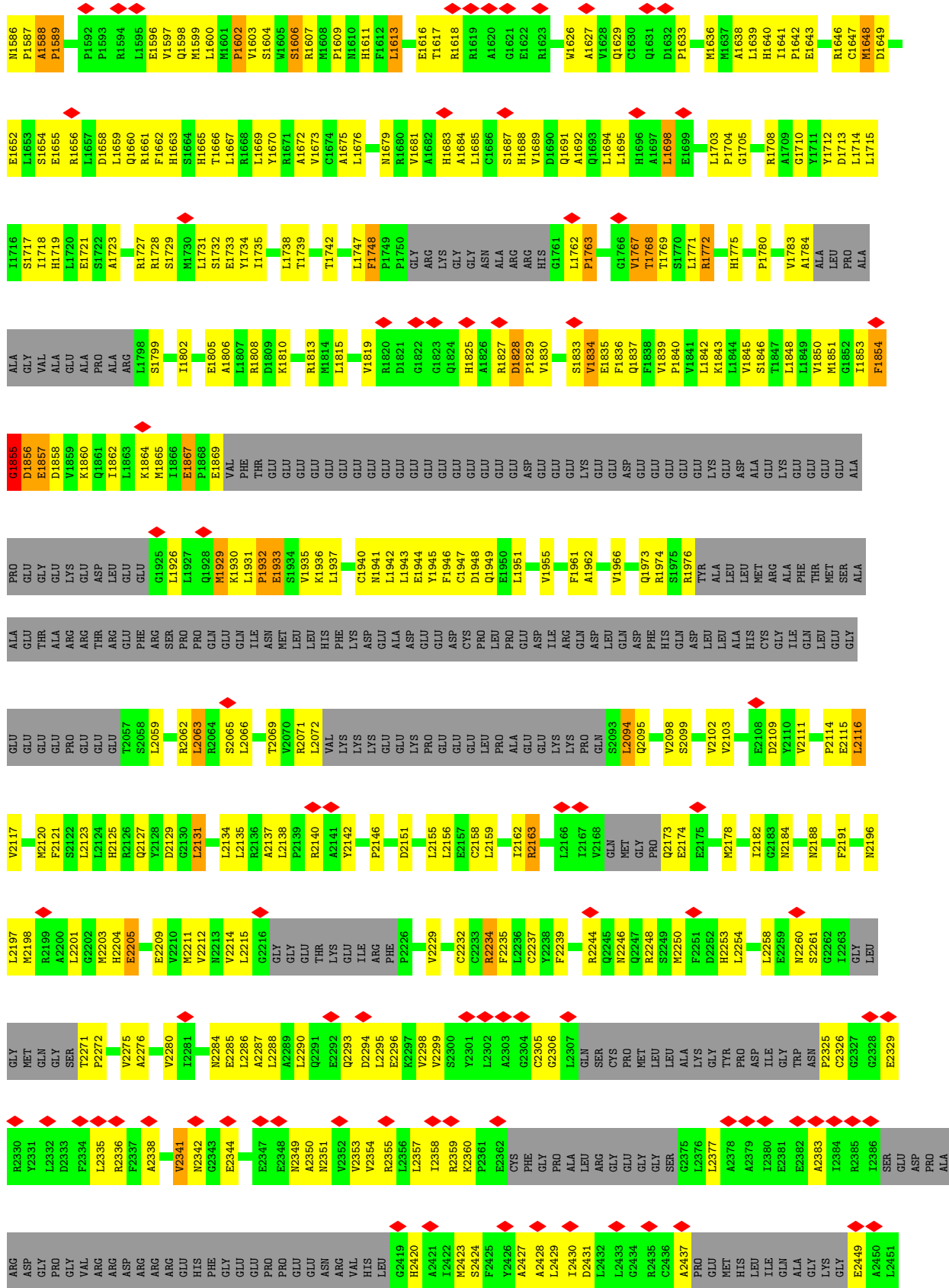
L590	D891	K592	H593	G594	R595	N596	H597	K598	V599	V602	L603	L606	C607	M610	G611	V614	M617	Q618	L619	I621	T622	L625	P627	G628	R629	E630	L631	L632	L633	Q634	T635	M636	L637	I638	N639	Y640	V641	T642	S643	I644	R645	N646	I648	F649	V650	G651	ARG	ALA	GLU	GLY									
SER	THR	GLN	TYR	G660	K661	W662	Y663	D669	L748	E670	V671	F674	L675	T676	A677	L682	R683	V684	G685	L688	T689	E690	G691	P696	G697	G698	G699	E700	G701	W702	G703	G704	N705	G706	V707	D710	L711	Y714	G715	F716	D717	H720	H725	V726	A727	R728	T731	S732	P733	G734									
L737	L738	A739	E740	P741	D742	C746	C747	L748	D749	L750	S751	V752	F753	S754	I755	S756	F757	R758	G761	C762	P763	V764	V767	E768	F769	A770	F771	N772	L773	D774	G775	L776	F777	F778	P779	V780	V781	S782	F783	S784	A785	G786	V787	K788	V789	R790	F791	L792	L793	G794	GLY	ARG	HIS	GLY	E799				
F800	K801	F802	L803	P804	P805	G807	H812	E813	A814	V815	L816	P817	R818	E819	R820	L821	R822	L823	E824	P825	I826	K827	E828	Y829	R830	R831	E832	G833	P834	H838	L839	V840	G841	P842	S843	R844	C845	LEU	SER	HIS	THR	ASP	F851	V852	P853	C854	R855	V856	D857	T858	V859	Q860	I861	V862	L863	P864			
P865	H866	L867	E868	R869	I870	R871	E872	H879	E880	A883	L884	T885	R886	I887	E888	Q889	G890	W891	T892	Y893	G894	P895	V896	R897	G898	G899	D899	N900	K901	R902	L903	H904	P905	C906	L907	V908	N909	F910	H911	S912	H912	L913	P914	E915	P916	E917	R918	N919	Y920	I921	L922	Q923	N924	S925	G926	E927	T928	L929	K930
T931	L932	L933	A934	L935	G936	C937	H938	V939	G940	M941	A942	D943	E944	K945	A946	GLU	ASN	LEU	LYS	THR	LYS	THR	LEU	PRO	LYS	THR	Y959	M960	M961	S962	N963	G964	Y965	K966	A968	P969	L970	D971	L972	S973	H974	V975	R976	L977	T978	P979	A980	T983	L984	L988	N991	G992	V1001						
A1002	Q1003	GLY	TRP	SER	TYR	ALA	VAL	GLN	ILE	PRO	ALA	R1016	Y1024	R1025	L1026	L1027	D1028	E1029	A1030	T1031	K1032	R1033	S1034	M1035	L1036	D1037	S1038	L1039	C1040	Q1041	G964	Y965	V1043	L1044	T1045	L1046	L1047	G1048	Y1049	G1050	Y1051	M1052	I1053	E1054	P1055	PRO	ASP	GLN	GLU	GLY	PRO	PRO	SER	GLN	VAL	GLU	ASN	GLN	SER
ARG	TRP	ASP	R1071	R1072	R1073	I1074	F1075	A1077	K1079	S1080	Y1081	V1083	Q1084	S1085	G1086	R1087	Y1088	F1090	E1091	F1092	E1093	A1094	V1095	T1096	T1097	G1098	E1099	M1100	R1101	V1102	G1103	A1105	R1106	P1107	E1108	L1109	R1110	P1111	D1112	V1113	E1114	L1115	G1116	A1117	D1118	E1119	L1120	V1123	F1124	G1126	H1127	R1128							
G1129	Q1130	R1131	W1132	H1133	L1134	G1135	S1136	E1137	P1138	F1139	G1140	R1141	V1143	Q1144	S1145	G1146	D1147	V1148	C1151	M1152	T1153	D1154	L1155	T1156	M1157	N1158	F1162	T1163	L1164	H1165	G1166	E1167	V1168	L1169	MET	SER	ASP	SER	GLY	SER	THR	A1178	F1179	R1180	E1181	I1182	G1185	D1186	G1187	F1188	L1189	P1190	V1191	D1261	GLY				
S1193	L1194	G1197	Q1198	V1199	H1200	H1201	N1203	L1204	G1205	Q1206	D1207	S1210	L1211	F1213	F1214	A1215	I1216	E1221	G1222	F1223	E1224	P1225	F1226	A1227	M1230	Q1231	V1234	T1235	T1236	W1237	F1238	S1239	L1240	S1241	L1242	P1243	Q1244	F1245	E1246	P1247	E1251	H1252	P1253	H1254	V1255	E1256	R1259	M1260	D1261	GLY									
THR	VAL	ASP	THR	PRO	PRO	CYS	LEU	ARG	L1272	R1275	T1276	W1277	G1278	S1279	L1283	V1284	E1285	M1286	L1287	F1288	L1289	R1290	L1291	L1292	L1293	P1294	V1295	Q1296	F1297	HIS	GLN	PHE	ARG	CYS	THR	ALA	GLY	ALA	THR	PRO	PRO	LEU	ALA	PRO	PRO	ALA	ALA	ASP	GLU	GLY	ALA	ARG							
ALA	ALA	GLU	PRO	ASP	PRO	ASP	TYR	GLU	ARG	ARG	ARG	MET	THR	GLN	PRO	PRO	ALA	ALA	PRO	GLY	GLY	GLU	GLY	ALA	ALA	LEU	LEU	THR	THR	PRO	ALA	ASN	THR	PHE	THR	GLY	VAL	GLU	ALA	GLN	PRO	PRO	VAL	ARG	ALA	GLU	ASN	GLU	GLY	ALA	ARG								
LYS	LYS	ARG	GLY	PHE	LEU	PHE	LYS	ALA	LYS	ALA	ALA	MET	THR	GLN	PRO	PRO	ALA	ALA	PRO	GLY	GLY	GLU	GLY	ALA	ALA	LEU	LEU	THR	THR	PRO	ALA	ASN	THR	PHE	THR	GLY	VAL	GLU	ALA	GLN	PRO	PRO	VAL	ARG	ALA	GLU	ASN	GLU	GLY	ALA	ARG								
T1432	Y1435	S1436	V1437	R1438	V1439	A1441	GLY	GLN	GLU	PRO																																																	

SER	C1447	L1519	E1596	R1661	R1727	ARG	I1862	LEU	THR	GLU	S2192	L2201	SER
C1448	V1520	L1519	V1597	F1662	R1728	L1796	L1863	GLU	ARG	GLU	L2123	G2202	T2271
ASP	M1452	V1520	Q1598	H1663	M1729	P1800	K1864	GLU	PHE	GLU	E2125	M2203	P2272
LEU	M1452	LEU	M1599	H1663	M1730	I1801	M1865	GLU	ARG	GLU	R2126	H2204	V2275
THR	Y1457	THR	M1601	T1666	L1731	A1801	I1866	GLU	SER	GLU	Q2127	E2205	A2276
G1459	G1525	G1525	P1602	L1667	S1732	I1802	I1867	GLU	PRO	GLU	Y2128	E2209	V2280
M1462	A1531	A1531	V1603	R1668	I1733	E1805	P1868	VAL	PRO	R2062	D2129	V2210	I2281
M1463	M1532	M1532	S1604	L1669	I1734	A1806	I1869	PHE	PRO	L2063	G2130	M2211	N2284
F1465	N1537	N1537	M1605	Y1670	I1735	R1807	E1869	THR	GLN	R2064	K1930	V2212	E2285
D1466	N1537	N1537	M1606	Y1671	I1735	R1808	E1869	THR	GLN	S2065	L2131	V2214	A2287
S1467	F1539	F1539	M1607	Y1672	I1735	D1809	I1869	GLU	ILE	L2066	L2134	L2215	L2288
LYS	P1544	P1544	M1608	Y1673	I1739	K1810	E1869	GLU	ASN	L2069	L2135	L2216	L2290
VAL	N1544	N1544	M1609	Y1673	I1739	M1813	E1869	GLU	MET	V2070	L2136	GLY	Q2291
ARG	T1546	T1546	M1610	Y1676	I1742	M1814	E1869	GLU	LEU	R2071	A2137	GLY	Q2292
ALA	K1547	K1547	M1611	F1549	T1742	M1815	E1869	GLU	LEU	L2072	L1937	GLU	D2294
ALA	V1472	V1472	L1613	F1550	F1748	L1815	E1869	GLU	PHE	VAL	P2139	THR	V2298
G1477	P1550	P1550	L1613	E1616	P1749	V1819	E1869	GLU	LYS	LYS	R2140	THR	V2299
D1478	V1554	V1554	E1616	T1617	P1750	R1820	E1869	GLU	LYS	LYS	A2141	LYS	S2300
E1479	L1555	L1555	T1617	R1618	ARG	A1682	E1869	GLU	ASP	ASP	L1942	GLU	Y2301
Q1480	P1556	P1556	R1618	H1683	LYS	D1821	E1869	GLU	LYS	LYS	L1943	GLU	L2302
G1481	F1549	F1549	R1619	H1683	GLY	G1822	E1869	GLU	ALA	ALA	E1944	ILE	A2303
H1482	P1550	P1550	A1620	H1684	GLY	G1823	E1869	GLU	ASP	ASP	Y1945	ARG	G2304
V1483	V1561	V1561	A1621	L1685	GLY	Q1824	E1869	GLU	GLU	GLU	F1946	PHE	K2297
H1484	Q1562	Q1562	G1622	C1686	ASN	H1825	E1869	GLU	ASP	ASP	D1948	V2229	S2300
S1485	F1564	F1564	A1622	H1688	ALA	A1826	E1869	GLU	LYS	LYS	D1949	C2232	Y2301
S1486	E1585	E1585	R1623	V1689	ARG	R1827	E1869	GLU	GLU	GLU	F1950	R2234	L2302
L1487	LEU	LEU	Q1631	H1689	HIS	D1828	E1869	GLU	PRO	PRO	L1951	F2236	A2303
K1488	LYS	LYS	D1632	Q1691	G1761	R1829	E1869	GLU	PRO	PRO	V1955	V2238	G2304
C1489	GLY	GLY	P1633	A1692	P1763	V1830	E1869	GLU	ASP	ASP	V1955	V2239	C2306
S1490	GLN	GLN	M1636	Q1692	P1763	V1830	E1869	GLU	ASP	ASP	L1958	R2244	L2307
M1491	ASN	ASN	M1636	Q1692	P1763	V1830	E1869	GLU	ILE	ILE	L1958	G2245	GLN
Y1493	ILE	ILE	M1636	Q1692	P1763	V1830	E1869	GLU	ILE	ILE	L1958	Q2246	SER
G1497	PRO	PRO	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	F1961	R2247	CYS
GLY	LEU	LEU	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	A1962	Q2247	PRO
ASP	SER	SER	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	V1966	R2248	PRO
PHE	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	Q1973	S2249	LEU
VAL	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	S1975	M2250	LEU
SER	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1974	ALA	ALA
PRO	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
GLN	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
GLY	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
ARG	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
ILE	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
S1510	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
H1511	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
T1512	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
D1513	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
L1514	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
V1515	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU
V1516	ASP	ASP	M1636	Q1692	P1763	V1830	E1869	GLU	GLN	GLN	R1976	LEU	LEU



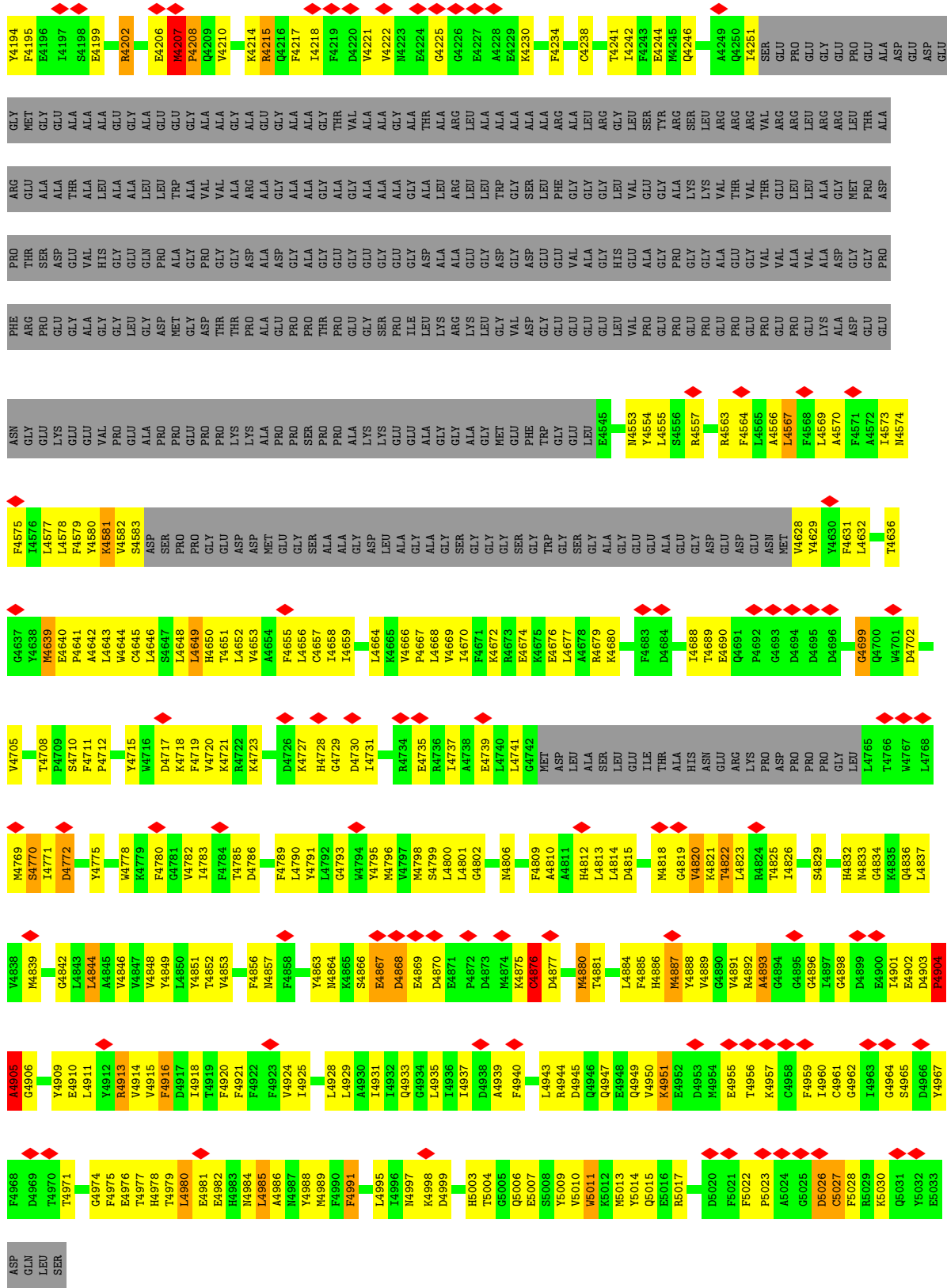
● Molecule 1: Ryanodine receptor 1





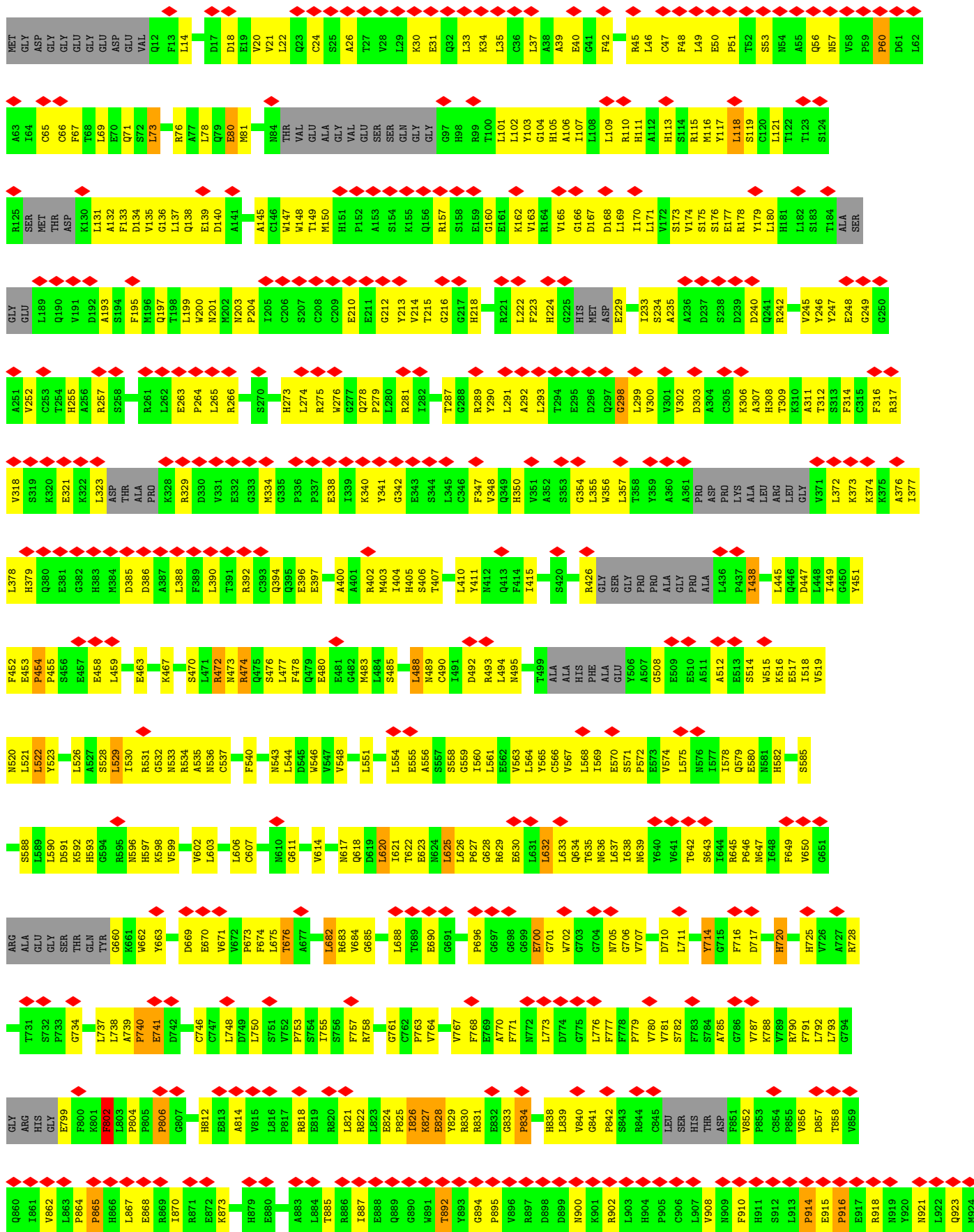
LEU	GLY	T3273	T3274	P3275	M3276	L3277	C3278	S3279	Y3280	L3281	A3215	C3216	S3217	VAL	TYR	THR	THR	THR	THR	ASP	VAL	ILE	L3158	D3159	ALA	ALA	ILE																																	
Q3162	V3163	S3164	F3095	F3096	E3097	S3098	A3099	S3100	L3103	E3104	K3105	M3106	V3107	E3108	M3109	L3110	R3111	L3112	G3113	K3114	V3115	S3116	GLN	ALA	THR	R3187	P3188																																	
H3030	A3031	S3032	K3033	K3034	E3035	K3036	E3037	I3039	THR	THR	LEU	F3043	L3046	A3047	A3048	L3049	V3050	H3051	K3052	R3053	V3054	S3055	L3056	F3057	D3060	A3061	P3062																																	
H3068	H3069	I3070	L3071	A3072	R3073	S3074	L3075	D3076	A3077	R3078	T3079	V3080	M3081	K3082	S3083	G3084	F3085	E3086	I3087	A3090	GLY	LEU	LEU	LEU	LEU	LEU	LEU																																	
SER	GLN	GLU	PHE	ILE	ALA	HIS	LEU	ALA	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL																																
T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	R2920	E2921	K2922	A2923	Q2924	E2925	L2926	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	A2936	V2937	T2938	R2939	G2940																																
D2850	P2851	R2852	E2853	G2854	Y2855	N2856	P2857	Q2858	S2859	P2860	D2861	L2862	S2863	G2864	V2865	T2866	L2867	S2868	R2869	K2870	E2871	Q2872	A2873	M2874	E2876	Q2877	L2878	E2880	N2881	Y2882	H2883	N2884	T2885	M2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2909				
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ASP	ALA	GLU	GLY	N2734	F2735	D2736	P2737	R2738	V2739	W2740	E2741	T2742	L2743	N2744	V2745	L2746	L2747	P2748	E2749	K2750	L2751	D2752	F2754	L2755	N2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	D2769	K2770	L2771	Q2772	N2773	N2774	W2775	S2776	Y2777	G2778	E2779	N2780	D2782	E2783	E2784	L2785	K2786	H2788	P2789				
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R2452	L2453	R2454	A2455	L2456	L2457	R2458	S2459	L2460	VAL	PRO	L2463	D2464	D2465	L2466	L2467	G2468	L2474	Q2475	L2476	PRO	THR	LEU	GLY	LYS	ASP	GLY	ALA	VAL	GLN	PRO	L2563	L2564	C2565	MET	SER	ALA	SER	F2494	V2495	F2496	D2497	H2498	K2499	A2500	S2501	M2502	V2503	L2504	D2507	R2508	Y2510	GLY	ILE	GLU	W2514	Q2515	D2516			

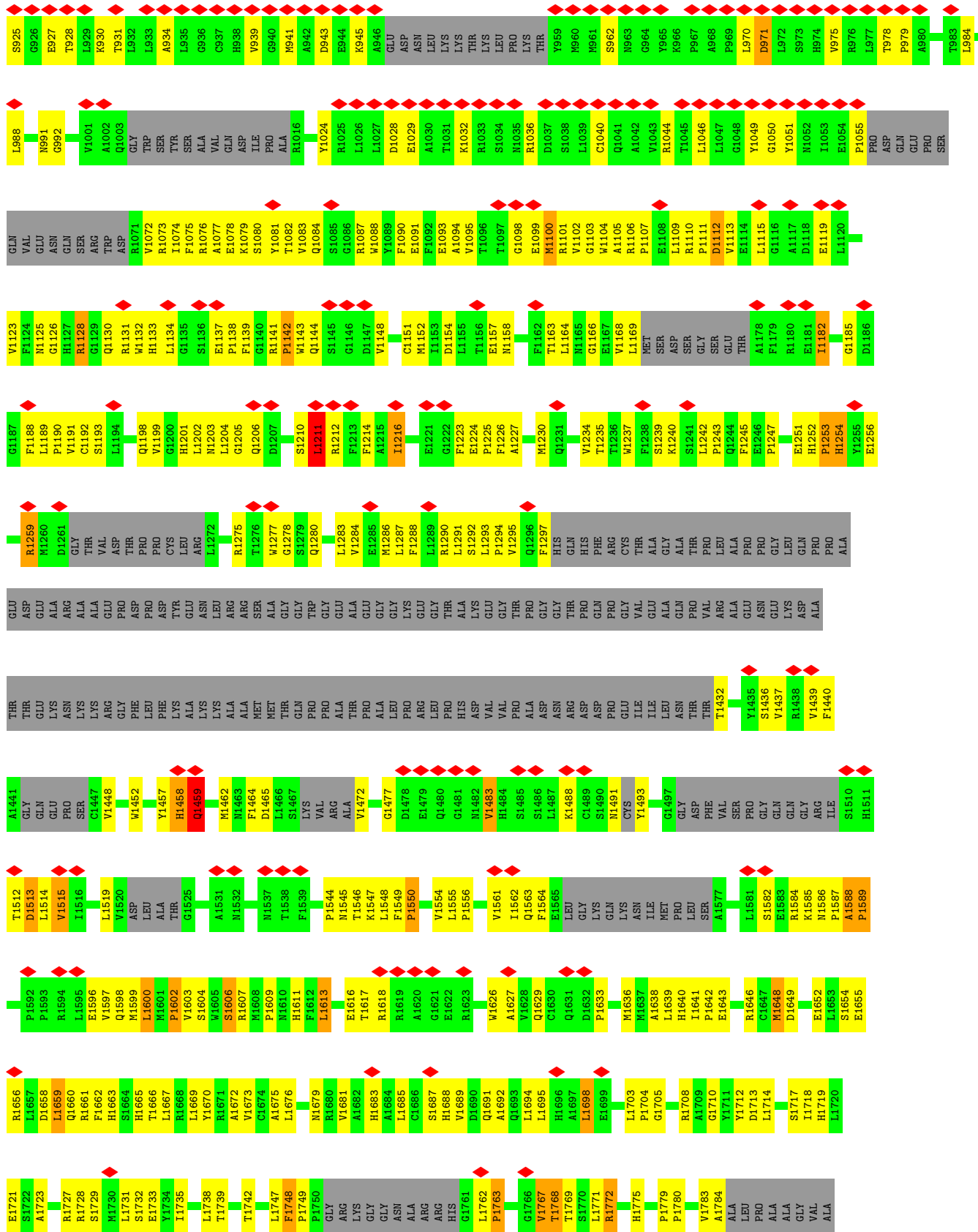
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E3551	F3552	L3553	Q3554	N3555	N3556	L3557	H3558	L3559	Q3560	G3561	K3562	P3567	S3568	L3569	R3570	M3571	MET	ALA	LEU	TYR	ARG	GLY	LEU	ASN	PRO	GLY	ARG	GLU	GLU	G3521	L3622	N3623	A3526	P3527	THR	ASP	GLN	ASP	GLN	ASP	VAL	LEU	I3621	I3622	MET	LEU	ALA	K3537	T3538	R3539	Y3540	A3541	L3542	K3543	A3481	D3482	D3483	A3484	Q3485	S3486	G3487	G3488
LYS	SER	LYS	LYS	ALA	VAL	TRP	HIS	LYS	LEU	SER	LYS	GLN	ARG	ARG	ALA	VAL	VAL	VAL	ALA	CYS	PHE	VAL	MET	THR	PRO	GLY	ARG	GLU	GLU	ASP	ALA	ASP	PRO	GLU	GLY	ILE	VAL	ARG	ARG	VAL	VAL	GLN	LEU	TYR	HIS	LEU	LEU	LEU	GLN	GLN	THR	THR	GLU	GLY	GLN	GLN						
GLU	GLU	GLU	GLU	GLU	VAL	VAL	GLU	GLU	K3694	L3698	L3701	V3702	H3703	L3704	E3712	K3713	S3714	K3715	K3716	D3717	E3718	D3719	A3724	D3727	I3728	M3729	A3730	K3731	S3732	C3733	HIS	L3654	E3655	K3658	A3659	K3660	A3661	I3662	E3665	H3667	D3666	H3667	S3668	F3669	E3670	L3674	D3675	D3676	L3677	A3660	GLY	GLU	GLN	K3756	K3756							
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C3839	S3840	V3841	L3842	D3843	L3844	R3849	K3852	ALA	GLU	GLY	LEU	GLY	GLY	GLY	VAL	ASN	ASP	GLY	THR	VAL	ILE	ASN	ARG	GLN	GLN	ASN	GLY	GLU	VAL	ALA	D3877	D3878	E3879	F3880	T3881	Q3882	D3883	L3884	F3885	R3886	L3887	Q3888	Q3889	L3890	L3891	C3892	E3893	F3899	Q3900	N3901	Y3902	T3905	Q3906	T3907								
G3908	N3909	T3910	N3914	I3915	I3916	L3917	C3918	T3919	D3920	V3921	Y3922	L3923	L3924	R3925	L3926	Q3927	I3930	F3933	Y3934	W3935	Y3936	Y3937	S3938	D3941	E3944	K3953	S3956	V3957	A3958	K3959	Q3960	V3961	F3962	N3963	S3964	L3965	T3966	E3967	Y3968	L3969	Q3970	G3971	F3972	Q3977	L3980	A3981	H3982	S3983	R3984	L3985												
V3986	D3987	A3988	V3989	V3990	I3991	I3992	L3993	H3994	V3995	F3996	M4000	M4001	K4002	L4003	A4004	Q4005	S4007	S4008	Q4009	I4010	E4011	L4012	L4013	L4017	D4018	P4084	R4085	G4086	D4092	M4097	S4099	Q4100	L4102	F4103	T4104	G4105	P4106	E4107	I4108	Q4109	F4110	L4111	L4112	A4117	D4118	E4119	N4120	N4124	F4125	E4126	E4127	F4128										
V4055	V4056	M4057	I4058	L4059	K4060	F4061	F4062	D4063	M4064	PHE	LEU	M4000	M4001	K4002	L4003	A4004	Q4005	S4007	S4008	Q4009	I4010	E4011	L4012	L4013	L4017	D4018	P4084	R4085	G4086	D4092	M4097	S4099	Q4100	L4102	F4103	T4104	G4105	P4106	E4107	I4108	Q4109	F4110	L4111	L4112	A4117	D4118	E4119	N4120	N4124	F4125	E4126	E4127	F4128									
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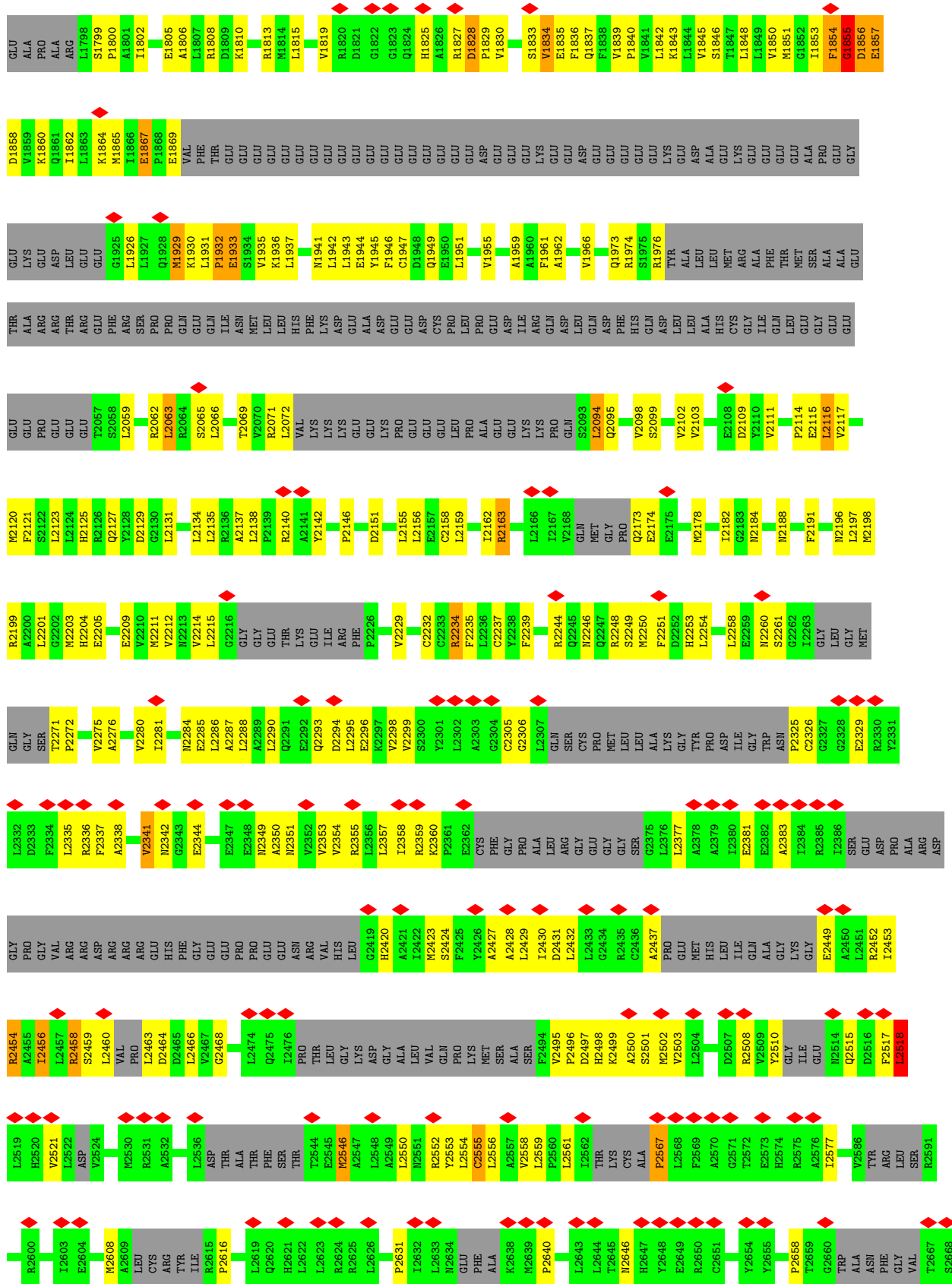


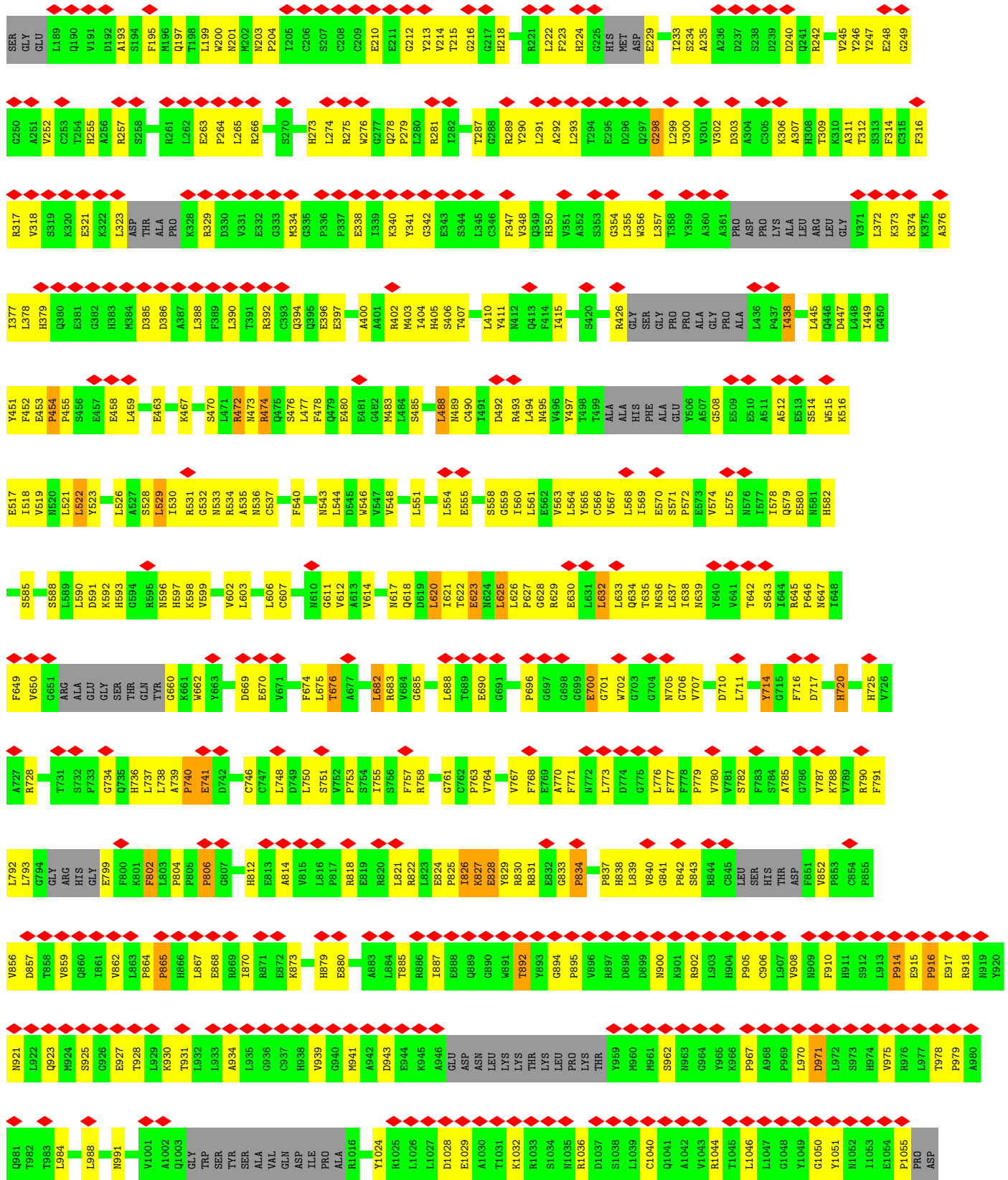
• Molecule 1: Ryanodine receptor 1

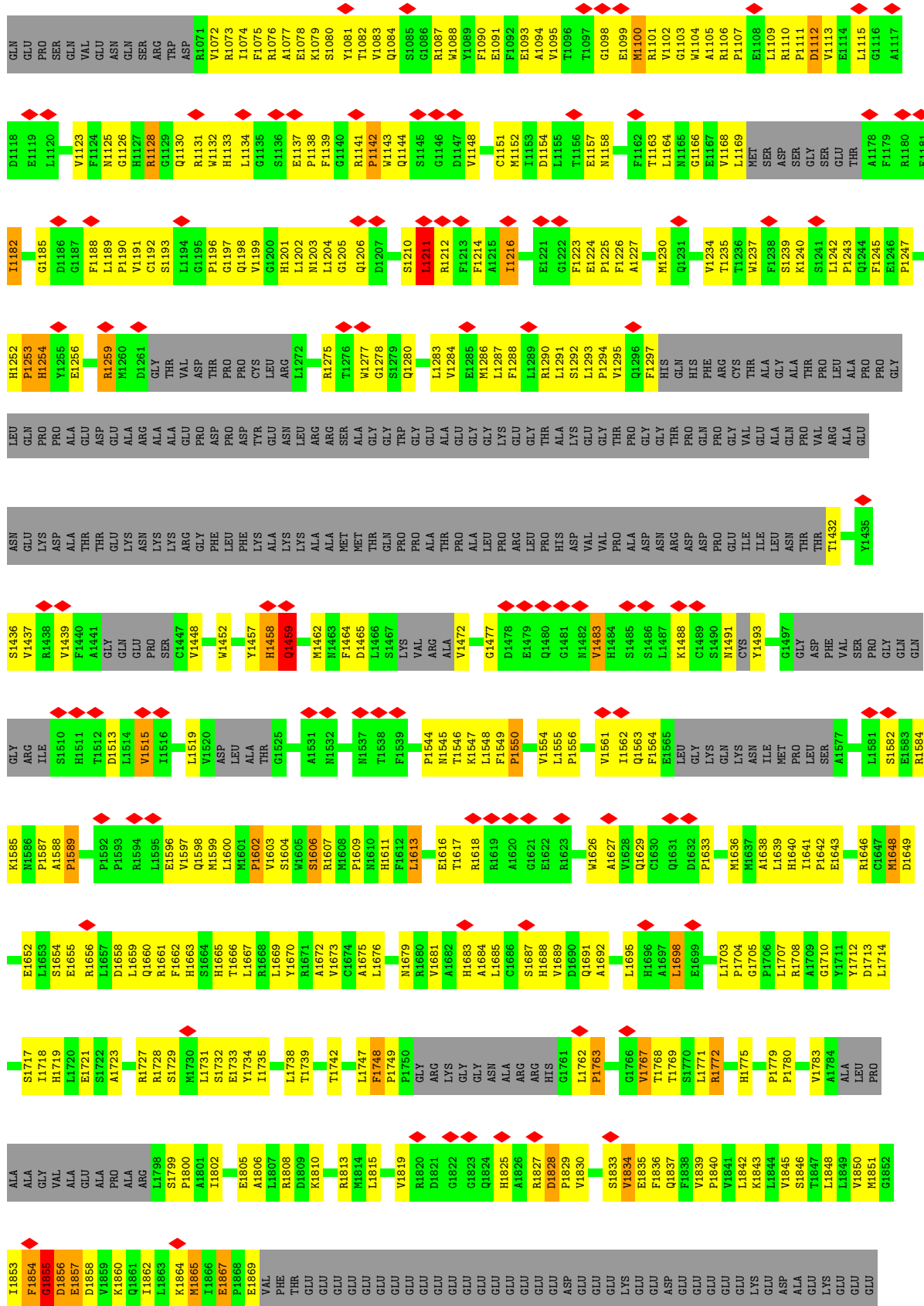


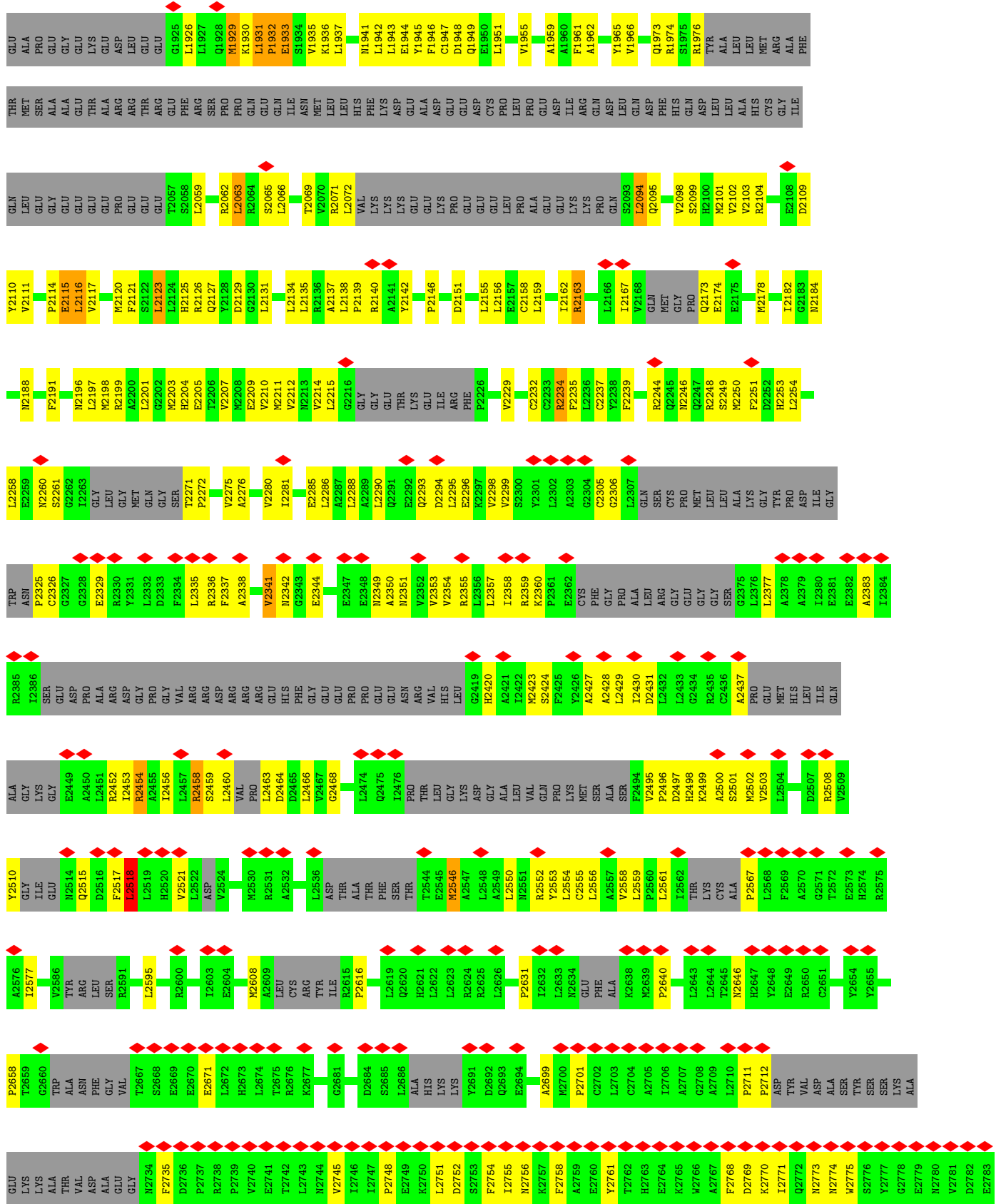




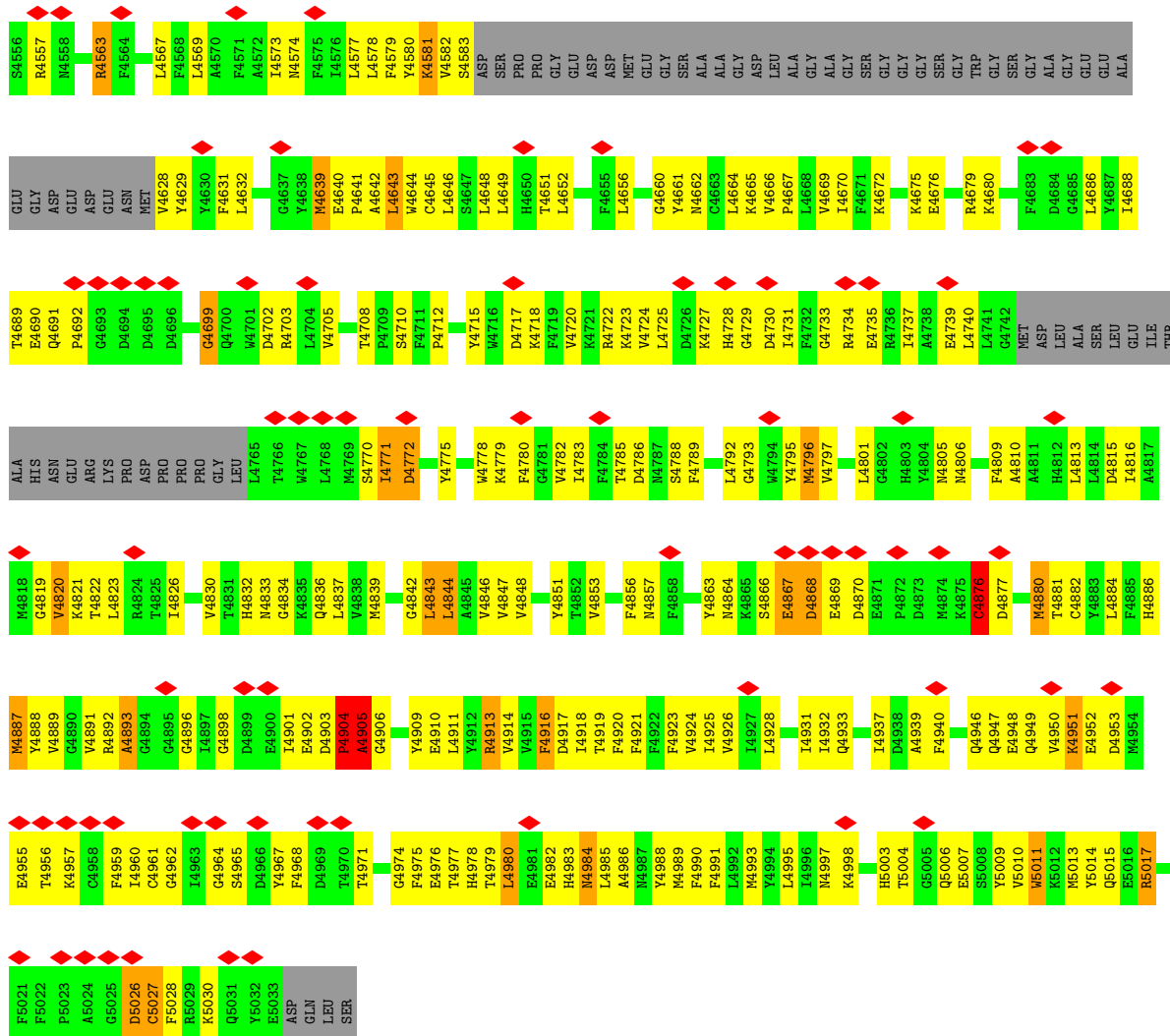




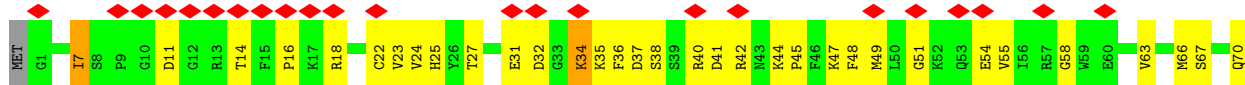




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R2786	V2906	A3090	D3160	E3286	L3412	Q3485	GLU
T2787	P2907	G3028	V3161	R3287	I3413	S3486	GLU
H2788	Y2908	G3029	W3162	G3288	R3414	S3487	V3549
P2789	D2909	H3030	V3163	P3289	Y3415	R3488	R3550
R2790	T2910	A3031	S3164	E3290	V3416	G3489	E3551
L2791	L2911	F3095	C3165	A3291	D3417	S3489	F3552
R2792	P2851	P3096	Y3166	PRO	N3418	Q3490	L3553
R2793	P2852	PRO	R3167	PRO	N3419	Q3491	R3554
Y2794	E2853	ALA	T3168	SER	R3420	GLU	R3555
K2795	Y2855	F3097	L3169	PRO	A3421	ARG	N3556
T2796	N2856	E3097	L3170	PRO	H3422	T3494	L3557
F2797	P2857	S3098	C3170	VAL	W3423	K3495	H3558
S2798	Q2858	A3099	S3171	GLU	L3424	K3496	L3559
S2799	E3037	I3103	I3172	PRO	L3425	K3497	Q3560
E2799	E3038	E3104	I3173	ASP	L3426	D3501	K3561
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D2802	D2861	V3107	L3175	VAL	GLU	S3504	E3564
E2803	R2862	E3108	L3176	ASP	P3427	VAL	P3567
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Y2805	G2864	R3111	L3178	LEU	A3429	SER	L3569
R2806	V2865	L3112	L3179	ALA	N3430	LEU	R3570
W2807	T2866	G3113	A3184	ALA	A3431	LEU	W3571
F2808	L2867	C3114	GLN	GLY	E3432	ALA	M3572
I2809	L2868	V3115	V3183	LEU	E3433	T3513	
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GLU	S2890	I3151	Q3209	Y3280	THR	ALA	
ARG	K2891	F3152	L3210	L3281	ALA	ASP	
THR	Q2892	G3152	A3215	P3282	SER	SER	
GLU	E2893	GLY	S2217	R3283	VAL	VAL	
THR	E2895	ASP	VAL		ALA	C3402	
LYS	A2896	ASP	TYR		ALA	R3403	
LYS	K2897	VAL	THR		GLN	D3404	
THR	G2898	ILE	THR		PRO	L3405	
LYS	G2899	V3080	LYS		ILE	Y3406	
LYS	T2901	S3083	SER			A3407	
LYS	H2902	G3084				L3408	
SER	P2903	P3085				Y3409	

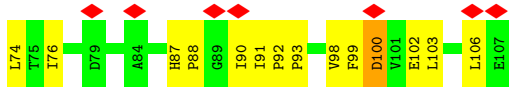


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

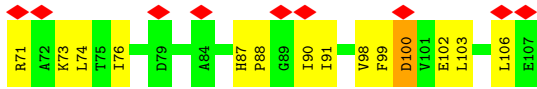
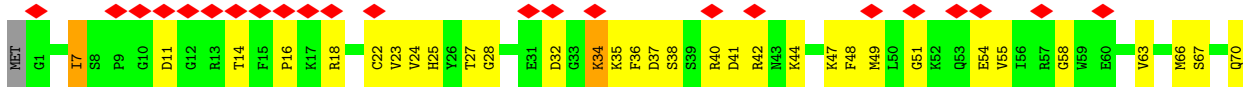


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

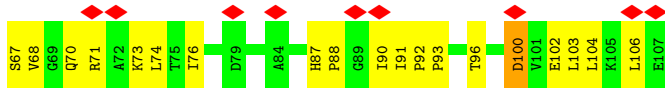
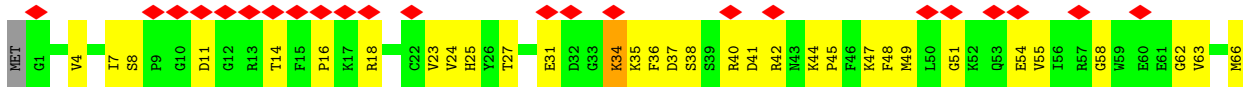




• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	30000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.243	Depositor
Minimum map value	-0.085	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.012	Depositor
Recommended contour level	0.075	Depositor
Map size (\AA)	482.40002, 482.40002, 482.40002	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.34, 1.34, 1.34	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section:
ZN

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	1.21	41/27312 (0.2%)	1.12	151/37004 (0.4%)
1	C	1.20	39/27312 (0.1%)	1.12	154/37004 (0.4%)
1	E	1.21	35/27312 (0.1%)	1.12	158/37004 (0.4%)
1	G	1.21	38/27312 (0.1%)	1.11	145/37004 (0.4%)
2	B	0.91	1/851 (0.1%)	0.93	2/1146 (0.2%)
2	D	0.91	1/851 (0.1%)	0.92	2/1146 (0.2%)
2	F	0.91	1/851 (0.1%)	0.92	2/1146 (0.2%)
2	H	0.93	1/851 (0.1%)	0.90	0/1146
All	All	1.20	157/112652 (0.1%)	1.11	614/152600 (0.4%)

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	36
1	C	0	35
1	E	0	36
1	G	0	34
All	All	0	141

All (157) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	80	GLU	CG-CD	11.12	1.68	1.51
1	G	3661	TRP	CB-CG	10.06	1.68	1.50
1	A	3661	TRP	CB-CG	9.81	1.68	1.50
1	G	1976	ARG	NE-CZ	9.78	1.45	1.33
1	A	741	GLU	CG-CD	9.74	1.66	1.51
1	E	5011	TRP	CB-CG	-9.37	1.33	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	5011	TRP	CB-CG	-9.29	1.33	1.50
1	C	5011	TRP	CB-CG	-9.22	1.33	1.50
1	E	3661	TRP	CB-CG	9.18	1.66	1.50
1	C	3661	TRP	CB-CG	9.15	1.66	1.50
1	G	1976	ARG	CD-NE	9.10	1.61	1.46
1	A	2926	LEU	CA-C	-8.45	1.30	1.52
1	G	80	GLU	CD-OE1	8.35	1.34	1.25
1	E	80	GLU	CG-CD	8.15	1.64	1.51
1	E	1976	ARG	NE-CZ	7.84	1.43	1.33
1	A	1976	ARG	CD-NE	7.76	1.59	1.46
1	G	4050	GLU	CD-OE2	7.70	1.34	1.25
1	C	1976	ARG	CD-NE	7.52	1.59	1.46
1	C	80	GLU	CG-CD	7.51	1.63	1.51
1	E	3670	GLU	CD-OE1	-7.43	1.17	1.25
1	C	3670	GLU	CD-OE1	-7.37	1.17	1.25
1	A	3670	GLU	CD-OE1	-7.35	1.17	1.25
1	G	5011	TRP	CB-CG	-7.22	1.37	1.50
1	C	1976	ARG	NE-CZ	7.17	1.42	1.33
1	G	741	GLU	CG-CD	7.17	1.62	1.51
1	G	3670	GLU	CD-OE1	-6.91	1.18	1.25
1	C	741	GLU	CG-CD	6.89	1.62	1.51
1	G	4215	ARG	CD-NE	6.87	1.58	1.46
1	C	1784	ALA	N-CA	6.79	1.59	1.46
1	E	4644	TRP	CB-CG	6.71	1.62	1.50
1	A	4644	TRP	CB-CG	6.66	1.62	1.50
1	C	4644	TRP	CB-CG	6.66	1.62	1.50
1	A	1784	ALA	N-CA	6.59	1.59	1.46
1	A	1867	GLU	CD-OE1	-6.54	1.18	1.25
1	E	80	GLU	CD-OE1	6.54	1.32	1.25
1	A	1976	ARG	NE-CZ	6.53	1.41	1.33
1	E	741	GLU	CG-CD	6.52	1.61	1.51
1	A	80	GLU	CG-CD	6.46	1.61	1.51
1	E	1867	GLU	CD-OE1	-6.44	1.18	1.25
1	C	1867	GLU	CD-OE1	-6.38	1.18	1.25
1	G	1867	GLU	CD-OE1	-6.29	1.18	1.25
1	G	3299	GLY	N-CA	6.27	1.55	1.46
1	G	4909	TYR	CB-CG	6.26	1.61	1.51
1	A	1973	GLN	CG-CD	6.22	1.65	1.51
1	G	1973	GLN	CG-CD	6.20	1.65	1.51
1	G	4644	TRP	CB-CG	6.18	1.61	1.50
1	A	700	GLU	CD-OE1	6.13	1.32	1.25
1	A	4822	THR	CB-CG2	-6.11	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4822	THR	CB-CG2	-6.11	1.32	1.52
1	E	4909	TYR	CB-CG	6.08	1.60	1.51
1	E	4967	TYR	CB-CG	-6.07	1.42	1.51
1	A	4967	TYR	CB-CG	-6.03	1.42	1.51
1	G	4967	TYR	CB-CG	-6.03	1.42	1.51
1	C	4967	TYR	CB-CG	-6.00	1.42	1.51
1	A	4191	GLU	CG-CD	5.99	1.60	1.51
1	E	4191	GLU	CG-CD	5.96	1.60	1.51
1	C	700	GLU	CD-OE1	5.96	1.32	1.25
1	C	1973	GLN	CG-CD	5.95	1.64	1.51
1	C	4909	TYR	CB-CG	5.94	1.60	1.51
1	G	700	GLU	CD-OE1	5.92	1.32	1.25
1	E	1973	GLN	CG-CD	5.89	1.64	1.51
1	A	1933	GLU	CG-CD	5.88	1.60	1.51
2	H	100	ASP	CB-CG	5.87	1.64	1.51
1	G	623	GLU	CG-CD	5.86	1.60	1.51
1	E	700	GLU	CD-OE1	5.84	1.32	1.25
1	E	1784	ALA	N-CA	5.83	1.58	1.46
1	G	4699	GLY	N-CA	-5.83	1.37	1.46
1	E	4699	GLY	N-CA	-5.81	1.37	1.46
2	F	100	ASP	CB-CG	5.79	1.64	1.51
2	D	100	ASP	CB-CG	5.78	1.63	1.51
2	B	100	ASP	CB-CG	5.77	1.63	1.51
1	G	3665	GLU	CG-CD	5.76	1.60	1.51
1	C	1933	GLU	CG-CD	5.75	1.60	1.51
1	C	4191	GLU	CG-CD	5.73	1.60	1.51
1	G	4932	ILE	N-CA	-5.72	1.34	1.46
1	A	3299	GLY	N-CA	5.70	1.54	1.46
1	C	3299	GLY	N-CA	5.68	1.54	1.46
1	G	3916	ILE	N-CA	-5.68	1.34	1.46
1	A	4699	GLY	N-CA	-5.68	1.37	1.46
1	A	4909	TYR	CB-CG	5.67	1.60	1.51
1	C	4699	GLY	N-CA	-5.66	1.37	1.46
1	E	3916	ILE	N-CA	-5.63	1.35	1.46
1	E	1933	GLU	CG-CD	5.62	1.60	1.51
1	C	3916	ILE	N-CA	-5.61	1.35	1.46
1	E	3299	GLY	N-CA	5.61	1.54	1.46
1	E	1976	ARG	CD-NE	5.59	1.55	1.46
1	A	3665	GLU	CG-CD	5.59	1.60	1.51
1	A	3916	ILE	N-CA	-5.58	1.35	1.46
1	E	4876	CYS	CB-SG	-5.57	1.72	1.81
1	G	4191	GLU	CG-CD	5.56	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1933	GLU	CG-CD	5.52	1.60	1.51
1	A	4545	GLU	CG-CD	5.50	1.60	1.51
1	C	3665	GLU	CG-CD	5.50	1.60	1.51
1	G	2577	ILE	N-CA	5.50	1.57	1.46
1	A	2577	ILE	N-CA	5.50	1.57	1.46
1	C	2577	ILE	N-CA	5.49	1.57	1.46
1	A	741	GLU	CD-OE1	5.47	1.31	1.25
1	G	1670	TYR	CG-CD1	-5.47	1.32	1.39
1	E	3665	GLU	CG-CD	5.46	1.60	1.51
1	A	4876	CYS	CB-SG	-5.43	1.73	1.81
1	A	4962	GLY	N-CA	-5.42	1.38	1.46
1	E	2577	ILE	N-CA	5.42	1.57	1.46
1	C	4876	CYS	CB-SG	-5.41	1.73	1.81
1	C	4962	GLY	N-CA	-5.39	1.38	1.46
1	E	4962	GLY	N-CA	-5.39	1.38	1.46
1	C	1670	TYR	CG-CD1	-5.38	1.32	1.39
1	C	2205	GLU	CG-CD	5.38	1.60	1.51
1	G	714	TYR	CG-CD2	5.28	1.46	1.39
1	C	714	TYR	CG-CD2	5.27	1.46	1.39
1	E	4215	ARG	CD-NE	5.26	1.55	1.46
1	A	714	TYR	CG-CD2	5.24	1.46	1.39
1	E	1670	TYR	CG-CD1	-5.23	1.32	1.39
1	E	2855	TYR	CG-CD1	5.21	1.46	1.39
1	G	3164	SER	N-CA	5.20	1.56	1.46
1	A	1670	TYR	CG-CD1	-5.19	1.32	1.39
1	E	1728	ARG	CZ-NH1	5.19	1.39	1.33
1	A	1836	PHE	CB-CG	-5.19	1.42	1.51
1	E	714	TYR	CG-CD2	5.18	1.45	1.39
1	G	1836	PHE	CB-CG	-5.18	1.42	1.51
1	A	2855	TYR	CG-CD1	5.18	1.45	1.39
1	A	529	LEU	CA-CB	-5.18	1.41	1.53
1	C	1836	PHE	CB-CG	-5.18	1.42	1.51
1	E	1836	PHE	CB-CG	-5.17	1.42	1.51
1	G	3525	CYS	CA-CB	-5.17	1.42	1.53
1	E	529	LEU	CA-CB	-5.16	1.41	1.53
1	G	4554	TYR	CB-CG	5.15	1.59	1.51
1	C	117	TYR	CE1-CZ	-5.14	1.31	1.38
1	A	1728	ARG	CZ-NH1	5.14	1.39	1.33
1	A	4888	TYR	CE2-CZ	-5.14	1.31	1.38
1	G	2855	TYR	CG-CD1	5.14	1.45	1.39
1	C	529	LEU	CA-CB	-5.14	1.42	1.53
1	G	4863	TYR	CG-CD2	-5.11	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4050	GLU	CD-OE1	5.11	1.31	1.25
1	C	5011	TRP	CG-CD1	-5.11	1.29	1.36
1	A	3525	CYS	CA-CB	-5.11	1.42	1.53
1	C	4976	GLU	N-CA	5.10	1.56	1.46
1	G	529	LEU	CA-CB	-5.10	1.42	1.53
1	A	2094	LEU	N-CA	5.09	1.56	1.46
1	A	4554	TYR	CB-CG	5.09	1.59	1.51
1	C	2855	TYR	CG-CD1	5.09	1.45	1.39
1	A	5011	TRP	CG-CD1	-5.08	1.29	1.36
1	A	4976	GLU	N-CA	5.07	1.56	1.46
1	E	3525	CYS	CA-CB	-5.07	1.42	1.53
1	E	2094	LEU	N-CA	5.07	1.56	1.46
1	G	80	GLU	CB-CG	5.07	1.61	1.52
1	E	4554	TYR	CB-CG	5.06	1.59	1.51
1	G	4876	CYS	CB-SG	-5.05	1.73	1.81
1	C	1728	ARG	CZ-NH1	5.04	1.39	1.33
1	A	4575	PHE	CB-CG	5.04	1.59	1.51
1	C	4554	TYR	CB-CG	5.04	1.59	1.51
1	C	4215	ARG	CD-NE	5.04	1.55	1.46
1	C	4575	PHE	CB-CG	5.04	1.59	1.51
1	E	2381	GLU	CD-OE2	-5.02	1.20	1.25
1	C	3525	CYS	CA-CB	-5.01	1.43	1.53
1	G	4962	GLY	N-CA	-5.01	1.38	1.46
1	C	1976	ARG	CZ-NH1	5.00	1.39	1.33
1	A	4932	ILE	N-CA	-5.00	1.36	1.46

All (614) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	80	GLU	OE1-CD-OE2	-10.92	110.20	123.30
1	A	1212	ARG	NE-CZ-NH1	10.39	125.49	120.30
1	G	4796	MET	CG-SD-CE	10.33	116.73	100.20
1	G	1976	ARG	CD-NE-CZ	10.23	137.93	123.60
1	C	1212	ARG	NE-CZ-NH1	10.17	125.39	120.30
1	G	1212	ARG	NE-CZ-NH1	10.00	125.30	120.30
1	E	1212	ARG	NE-CZ-NH1	9.74	125.17	120.30
1	A	4159	ARG	NE-CZ-NH2	-9.68	115.46	120.30
1	C	4980	LEU	CB-CG-CD2	-9.59	94.70	111.00
1	A	4980	LEU	CB-CG-CD2	-9.55	94.76	111.00
1	E	4980	LEU	CB-CG-CD2	-9.53	94.80	111.00
1	C	3303	PRO	N-CA-CB	9.52	114.72	103.30
1	E	3303	PRO	N-CA-CB	9.46	114.65	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1976	ARG	CD-NE-CZ	9.46	136.84	123.60
1	A	3303	PRO	N-CA-CB	9.35	114.52	103.30
1	C	4159	ARG	NE-CZ-NH2	-9.31	115.64	120.30
1	A	2640	PRO	N-CA-CB	9.29	114.45	103.30
1	C	2640	PRO	N-CA-CB	9.29	114.45	103.30
1	E	2640	PRO	N-CA-CB	9.28	114.44	103.30
1	G	2640	PRO	N-CA-CB	9.27	114.42	103.30
1	A	4909	TYR	CB-CG-CD1	9.25	126.55	121.00
1	G	4112	LEU	CB-CG-CD2	-9.20	95.35	111.00
1	G	4159	ARG	NE-CZ-NH2	-9.20	115.70	120.30
1	E	2497	ASP	CB-CG-OD1	9.13	126.52	118.30
1	G	1076	ARG	NE-CZ-NH1	9.04	124.82	120.30
1	E	4159	ARG	NE-CZ-NH2	-8.99	115.81	120.30
1	A	2567	PRO	N-CA-CB	8.98	114.08	103.30
1	G	4909	TYR	CB-CG-CD1	8.98	126.39	121.00
1	C	4909	TYR	CB-CG-CD1	8.96	126.38	121.00
1	E	2567	PRO	N-CA-CB	8.92	114.00	103.30
1	A	1976	ARG	NE-CZ-NH2	8.92	124.76	120.30
1	E	4909	TYR	CB-CG-CD1	8.85	126.31	121.00
1	G	2497	ASP	CB-CG-OD1	8.85	126.27	118.30
1	C	2497	ASP	CB-CG-OD1	8.81	126.23	118.30
1	E	1076	ARG	NE-CZ-NH1	8.79	124.69	120.30
1	A	1076	ARG	NE-CZ-NH1	8.76	124.68	120.30
1	G	2567	PRO	N-CA-CB	8.75	113.80	103.30
1	C	1076	ARG	NE-CZ-NH1	8.74	124.67	120.30
1	C	3297	PRO	N-CA-CB	8.72	113.76	103.30
1	A	2497	ASP	CB-CG-OD1	8.68	126.11	118.30
1	E	3297	PRO	N-CA-CB	8.65	113.68	103.30
1	C	2567	PRO	N-CA-CB	8.62	113.65	103.30
1	A	3297	PRO	N-CA-CB	8.60	113.61	103.30
1	C	2234	ARG	NE-CZ-NH2	8.52	124.56	120.30
1	E	2234	ARG	NE-CZ-NH2	8.41	124.50	120.30
1	E	4880	MET	CG-SD-CE	8.36	113.58	100.20
1	A	2234	ARG	NE-CZ-NH2	8.34	124.47	120.30
1	G	3303	PRO	N-CA-CB	8.34	113.31	103.30
1	E	3980	LEU	CB-CG-CD1	-8.31	96.88	111.00
1	G	3297	PRO	N-CA-CB	8.24	113.19	103.30
1	G	2234	ARG	NE-CZ-NH2	8.24	124.42	120.30
1	A	3843	ASP	CB-CG-OD1	8.10	125.59	118.30
1	G	66	CYS	CA-CB-SG	8.08	128.55	114.00
1	C	3980	LEU	CB-CG-CD1	-8.07	97.29	111.00
1	A	3980	LEU	CB-CG-CD1	-8.06	97.29	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1976	ARG	CD-NE-CZ	8.06	134.89	123.60
1	C	66	CYS	CA-CB-SG	8.03	128.45	114.00
1	E	3843	ASP	CB-CG-OD1	8.01	125.51	118.30
1	E	386	ASP	CB-CG-OD2	7.99	125.49	118.30
1	A	66	CYS	CA-CB-SG	7.99	128.38	114.00
1	E	4564	PHE	CB-CG-CD2	7.96	126.37	120.80
1	A	4913	ARG	NE-CZ-NH2	-7.95	116.32	120.30
1	C	386	ASP	CB-CG-OD2	7.93	125.44	118.30
1	G	3208	PRO	N-CA-CB	7.91	112.79	103.30
1	E	66	CYS	CA-CB-SG	7.90	128.22	114.00
1	A	386	ASP	CB-CG-OD2	7.84	125.36	118.30
1	G	386	ASP	CB-CG-OD2	7.83	125.35	118.30
1	C	4880	MET	CG-SD-CE	7.82	112.70	100.20
1	C	3843	ASP	CB-CG-OD1	7.76	125.28	118.30
1	G	4913	ARG	NE-CZ-NH2	-7.74	116.43	120.30
1	A	1929	MET	CB-CG-SD	7.69	135.46	112.40
1	C	1929	MET	CB-CG-SD	7.68	135.45	112.40
1	C	1976	ARG	NE-CZ-NH2	7.67	124.14	120.30
1	G	115	ARG	NE-CZ-NH2	-7.66	116.47	120.30
1	G	3843	ASP	CB-CG-OD1	7.64	125.18	118.30
1	A	3208	PRO	N-CA-CB	7.62	112.44	103.30
1	E	3208	PRO	N-CA-CB	7.59	112.41	103.30
1	C	2131	LEU	CB-CG-CD1	7.58	123.88	111.00
1	A	3021	PRO	N-CA-CB	7.56	112.37	103.30
1	C	3208	PRO	N-CA-CB	7.53	112.33	103.30
1	E	3021	PRO	N-CA-CB	7.53	112.33	103.30
1	G	1929	MET	CB-CG-SD	7.52	134.95	112.40
1	G	4643	LEU	CB-CG-CD1	-7.50	98.25	111.00
1	E	1929	MET	CB-CG-SD	7.50	134.89	112.40
1	C	3021	PRO	N-CA-CB	7.48	112.28	103.30
1	G	3021	PRO	N-CA-CB	7.47	112.27	103.30
1	G	4039	MET	CB-CG-SD	7.46	134.79	112.40
1	E	4913	ARG	NE-CZ-NH2	-7.46	116.57	120.30
1	C	1728	ARG	NE-CZ-NH2	-7.45	116.58	120.30
1	A	4202	ARG	NE-CZ-NH2	7.42	124.01	120.30
1	A	4790	LEU	CB-CG-CD2	7.38	123.55	111.00
1	A	2131	LEU	CB-CG-CD1	7.33	123.47	111.00
1	G	2458	ARG	NE-CZ-NH2	-7.33	116.64	120.30
1	A	115	ARG	NE-CZ-NH2	-7.29	116.66	120.30
1	C	4564	PHE	CB-CG-CD2	7.28	125.90	120.80
1	G	3729	MET	CG-SD-CE	7.27	111.83	100.20
1	E	2131	LEU	CB-CG-CD1	7.27	123.36	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4564	PHE	CB-CG-CD2	7.26	125.89	120.80
1	G	3301	PRO	N-CA-CB	7.26	112.02	103.30
1	A	2458	ARG	NE-CZ-NH2	-7.24	116.68	120.30
1	C	4790	LEU	CB-CG-CD2	7.23	123.30	111.00
1	A	2926	LEU	CA-C-N	-7.23	101.30	117.20
1	E	115	ARG	NE-CZ-NH2	-7.22	116.69	120.30
1	E	1855	GLY	N-CA-C	-7.21	95.08	113.10
1	C	1855	GLY	N-CA-C	-7.19	95.13	113.10
1	G	2131	LEU	CB-CG-CD1	7.19	123.22	111.00
1	C	1698	LEU	CB-CG-CD2	-7.18	98.79	111.00
1	A	5017	ARG	NE-CZ-NH2	-7.18	116.71	120.30
1	C	3729	MET	CG-SD-CE	7.18	111.68	100.20
1	G	1855	GLY	N-CA-C	-7.17	95.17	113.10
1	C	3085	PRO	N-CA-CB	7.17	111.90	103.30
1	G	2914	LYS	CD-CE-NZ	7.16	128.17	111.70
1	C	4913	ARG	NE-CZ-NH2	-7.16	116.72	120.30
1	E	2458	ARG	NE-CZ-NH2	-7.16	116.72	120.30
1	E	3729	MET	CG-SD-CE	7.15	111.64	100.20
1	E	5017	ARG	NE-CZ-NH2	-7.14	116.73	120.30
1	E	1698	LEU	CB-CG-CD2	-7.12	98.90	111.00
1	A	1855	GLY	N-CA-C	-7.11	95.33	113.10
1	G	1698	LEU	CB-CG-CD2	-7.08	98.96	111.00
1	A	1698	LEU	CB-CG-CD2	-7.07	98.98	111.00
1	A	3085	PRO	N-CA-CB	7.07	111.78	103.30
1	E	1728	ARG	NE-CZ-NH2	-7.06	116.77	120.30
1	C	4202	ARG	NE-CZ-NH2	7.05	123.83	120.30
1	E	4790	LEU	CB-CG-CD2	7.05	122.99	111.00
1	A	1728	ARG	NE-CZ-NH2	-7.03	116.78	120.30
1	G	2769	ASP	CB-CG-OD2	7.03	124.63	118.30
1	E	3085	PRO	N-CA-CB	7.03	111.73	103.30
1	G	3289	PRO	N-CA-CB	7.03	111.73	103.30
1	E	4202	ARG	NE-CZ-NH2	7.03	123.81	120.30
1	G	2711	PRO	N-CA-CB	7.00	111.69	103.30
1	C	2458	ARG	NE-CZ-NH2	-6.99	116.80	120.30
1	G	3085	PRO	N-CA-CB	6.95	111.64	103.30
1	A	1976	ARG	CD-NE-CZ	6.95	133.32	123.60
1	A	4880	MET	CG-SD-CE	6.93	111.28	100.20
1	A	2711	PRO	N-CA-CB	6.92	111.61	103.30
1	A	3729	MET	CG-SD-CE	6.91	111.26	100.20
1	A	5017	ARG	NE-CZ-NH1	6.91	123.75	120.30
1	E	2711	PRO	N-CA-CB	6.89	111.57	103.30
1	A	1867	GLU	OE1-CD-OE2	-6.89	115.03	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	5017	ARG	NE-CZ-NH2	-6.88	116.86	120.30
1	C	2711	PRO	N-CA-CB	6.86	111.53	103.30
1	E	80	GLU	OE1-CD-OE2	-6.85	115.08	123.30
1	E	4911	LEU	CB-CG-CD2	6.84	122.63	111.00
1	C	180	LEU	CB-CG-CD1	6.84	122.62	111.00
1	G	3427	PRO	N-CA-CB	6.82	111.49	103.30
1	G	2429	LEU	CB-CG-CD1	6.82	122.60	111.00
1	C	1867	GLU	OE1-CD-OE2	-6.82	115.11	123.30
1	G	1728	ARG	NE-CZ-NH2	-6.82	116.89	120.30
1	C	5017	ARG	NE-CZ-NH1	6.81	123.71	120.30
1	C	115	ARG	NE-CZ-NH2	-6.79	116.90	120.30
1	E	5017	ARG	NE-CZ-NH1	6.79	123.70	120.30
1	G	1974	ARG	NE-CZ-NH2	6.79	123.70	120.30
1	G	5026	ASP	CB-CG-OD1	6.79	124.41	118.30
1	E	1867	GLU	OE1-CD-OE2	-6.76	115.19	123.30
1	G	3188	PRO	N-CA-CB	6.75	111.40	103.30
1	E	4207	MET	CB-CG-SD	6.75	132.63	112.40
1	A	1942	LEU	CB-CG-CD2	-6.74	99.54	111.00
1	G	180	LEU	CB-CG-CD1	6.74	122.45	111.00
1	A	4839	MET	CG-SD-CE	6.72	110.95	100.20
1	C	3289	PRO	N-CA-CB	6.72	111.36	103.30
1	G	3980	LEU	CB-CG-CD1	-6.71	99.59	111.00
1	E	3289	PRO	N-CA-CB	6.71	111.35	103.30
1	A	180	LEU	CB-CG-CD1	6.70	122.39	111.00
1	E	180	LEU	CB-CG-CD1	6.69	122.38	111.00
1	A	3289	PRO	N-CA-CB	6.67	111.31	103.30
1	G	1283	LEU	CB-CG-CD2	6.67	122.33	111.00
1	G	2701	PRO	N-CA-CB	6.67	111.30	103.30
1	C	1283	LEU	CB-CG-CD2	6.66	122.32	111.00
1	C	2701	PRO	N-CA-CB	6.66	111.29	103.30
1	C	3301	PRO	N-CA-CB	6.65	111.28	103.30
1	A	3275	PRO	N-CA-CB	6.64	111.26	103.30
1	C	240	ASP	CB-CG-OD2	6.64	124.27	118.30
1	G	620	LEU	CB-CG-CD1	-6.64	99.72	111.00
1	G	3410	PRO	N-CA-CB	6.63	111.26	103.30
1	A	2701	PRO	N-CA-CB	6.63	111.25	103.30
1	E	3301	PRO	N-CA-CB	6.62	111.25	103.30
1	A	1283	LEU	CB-CG-CD2	6.62	122.25	111.00
1	E	2701	PRO	N-CA-CB	6.62	111.24	103.30
1	C	2769	ASP	CB-CG-OD2	6.61	124.25	118.30
1	E	3275	PRO	N-CA-CB	6.60	111.22	103.30
1	A	3301	PRO	N-CA-CB	6.60	111.22	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1465	ASP	N-CA-CB	-6.60	98.72	110.60
1	E	1283	LEU	CB-CG-CD2	6.59	122.21	111.00
1	A	1465	ASP	N-CA-CB	-6.59	98.75	110.60
1	G	2234	ARG	NE-CZ-NH1	-6.59	117.01	120.30
1	A	2518	LEU	CA-CB-CG	6.58	130.43	115.30
1	C	2518	LEU	CA-CB-CG	6.58	130.43	115.30
1	C	3275	PRO	N-CA-CB	6.57	111.19	103.30
1	E	1942	LEU	CB-CG-CD2	-6.57	99.84	111.00
1	E	2518	LEU	CA-CB-CG	6.57	130.41	115.30
1	C	3410	PRO	N-CA-CB	6.57	111.18	103.30
1	C	1942	LEU	CB-CG-CD2	-6.55	99.86	111.00
1	C	1465	ASP	N-CA-CB	-6.55	98.82	110.60
1	G	1976	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	E	1465	ASP	N-CA-CB	-6.54	98.83	110.60
1	G	240	ASP	CB-CG-OD2	6.54	124.18	118.30
1	A	3188	PRO	N-CA-CB	6.53	111.14	103.30
1	A	3410	PRO	N-CA-CB	6.52	111.12	103.30
1	E	3410	PRO	N-CA-CB	6.52	111.12	103.30
1	E	2769	ASP	CB-CG-OD2	6.51	124.16	118.30
1	A	240	ASP	CB-CG-OD2	6.51	124.16	118.30
1	E	1211	LEU	CA-CB-CG	6.49	130.23	115.30
1	G	3527	PRO	N-CA-CB	6.49	111.08	103.30
1	E	3188	PRO	N-CA-CB	6.48	111.08	103.30
1	A	488	LEU	CB-CG-CD2	6.47	122.01	111.00
1	A	2454	ARG	NE-CZ-NH2	-6.47	117.06	120.30
1	E	240	ASP	CB-CG-OD2	6.47	124.13	118.30
1	G	2518	LEU	CA-CB-CG	6.47	130.19	115.30
1	G	4911	LEU	CB-CG-CD2	6.46	121.99	111.00
1	G	4207	MET	CB-CG-SD	6.46	131.78	112.40
1	G	3886	ARG	NE-CZ-NH1	6.45	123.53	120.30
1	A	4207	MET	CB-CG-SD	6.44	131.73	112.40
1	C	3188	PRO	N-CA-CB	6.43	111.01	103.30
1	E	3567	PRO	N-CA-CB	6.41	110.99	103.30
1	C	3567	PRO	N-CA-CB	6.41	110.99	103.30
1	A	3567	PRO	N-CA-CB	6.40	110.98	103.30
1	C	1211	LEU	CA-CB-CG	6.40	130.02	115.30
1	E	4202	ARG	NE-CZ-NH1	-6.40	117.10	120.30
1	A	3427	PRO	N-CA-CB	6.40	110.97	103.30
1	E	2234	ARG	NE-CZ-NH1	-6.39	117.11	120.30
1	C	2234	ARG	NE-CZ-NH1	-6.39	117.11	120.30
1	G	1942	LEU	CB-CG-CD2	-6.38	100.16	111.00
1	E	620	LEU	CB-CG-CD1	-6.38	100.16	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2769	ASP	CB-CG-OD2	6.37	124.03	118.30
1	G	1211	LEU	CA-CB-CG	6.37	129.96	115.30
1	G	474	ARG	NE-CZ-NH1	6.37	123.48	120.30
1	C	80	GLU	OE1-CD-OE2	-6.37	115.66	123.30
1	E	488	LEU	CB-CG-CD2	6.36	121.82	111.00
1	G	4843	LEU	CB-CG-CD2	-6.36	100.19	111.00
1	E	3427	PRO	N-CA-CB	6.35	110.92	103.30
1	C	620	LEU	CB-CG-CD1	-6.35	100.20	111.00
1	A	2234	ARG	NE-CZ-NH1	-6.34	117.13	120.30
1	G	1867	GLU	OE1-CD-OE2	-6.34	115.69	123.30
1	A	4951	LYS	CD-CE-NZ	6.34	126.28	111.70
1	E	1976	ARG	NE-CZ-NH1	6.33	123.46	120.30
1	A	4159	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	G	3360	PRO	N-CA-CB	6.32	110.88	103.30
1	A	4112	LEU	CB-CG-CD2	-6.32	100.26	111.00
1	C	3427	PRO	N-CA-CB	6.32	110.88	103.30
1	A	2429	LEU	CB-CG-CD1	6.31	121.72	111.00
1	A	474	ARG	NE-CZ-NH1	6.31	123.45	120.30
1	C	4207	MET	CB-CG-SD	6.30	131.31	112.40
1	E	4112	LEU	CB-CG-CD2	-6.30	100.28	111.00
1	G	5017	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	C	488	LEU	CB-CG-CD2	6.29	121.69	111.00
1	E	3844	LEU	CB-CG-CD1	-6.29	100.31	111.00
1	G	3275	PRO	N-CA-CB	6.29	110.84	103.30
1	G	488	LEU	CB-CG-CD2	6.28	121.68	111.00
1	C	4911	LEU	CB-CG-CD2	6.28	121.68	111.00
1	E	971	ASP	CB-CG-OD2	6.28	123.95	118.30
1	C	4159	ARG	NE-CZ-NH1	6.27	123.43	120.30
1	C	4112	LEU	CB-CG-CD2	-6.26	100.35	111.00
1	E	4639	MET	CG-SD-CE	6.25	110.20	100.20
1	G	4639	MET	CG-SD-CE	6.25	110.20	100.20
1	G	3567	PRO	N-CA-CB	6.24	110.78	103.30
1	G	2454	ARG	NE-CZ-NH2	-6.23	117.19	120.30
1	A	1211	LEU	CA-CB-CG	6.21	129.58	115.30
1	A	620	LEU	CB-CG-CD1	-6.20	100.45	111.00
1	G	4887	MET	CG-SD-CE	6.20	110.12	100.20
1	C	4639	MET	CG-SD-CE	6.16	110.06	100.20
1	G	3886	ARG	NE-CZ-NH2	-6.15	117.22	120.30
1	G	4911	LEU	CA-CB-CG	6.15	129.44	115.30
1	A	4887	MET	CA-CB-CG	6.14	123.75	113.30
1	C	3844	LEU	CB-CG-CD1	-6.14	100.55	111.00
1	E	971	ASP	N-CA-C	6.14	127.58	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	474	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	E	5026	ASP	CB-CG-OD1	6.13	123.82	118.30
1	E	4159	ARG	NE-CZ-NH1	6.13	123.36	120.30
1	C	4191	GLU	OE1-CD-OE2	-6.12	115.95	123.30
1	C	474	ARG	NE-CZ-NH1	6.12	123.36	120.30
1	A	291	LEU	CB-CG-CD1	-6.11	100.61	111.00
1	C	3282	PRO	N-CA-CB	6.11	110.63	103.30
1	A	4639	MET	CG-SD-CE	6.11	109.97	100.20
1	C	4887	MET	CA-CB-CG	6.10	123.68	113.30
1	A	1974	ARG	NE-CZ-NH2	6.09	123.35	120.30
1	G	3282	PRO	N-CA-CB	6.08	110.60	103.30
1	C	2518	LEU	CB-CG-CD2	6.08	121.33	111.00
1	G	291	LEU	CB-CG-CD1	-6.07	100.68	111.00
1	C	472	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	C	1974	ARG	NE-CZ-NH2	6.06	123.33	120.30
1	A	3844	LEU	CB-CG-CD1	-6.05	100.71	111.00
1	E	3282	PRO	N-CA-CB	6.05	110.56	103.30
1	E	1974	ARG	NE-CZ-NH2	6.05	123.33	120.30
1	A	2518	LEU	CB-CG-CD2	6.05	121.28	111.00
1	G	3985	LEU	CB-CG-CD1	-6.05	100.72	111.00
1	C	4202	ARG	NE-CZ-NH1	-6.03	117.28	120.30
1	G	4112	LEU	CB-CG-CD1	6.03	121.24	111.00
1	C	73	LEU	CB-CG-CD2	-6.02	100.76	111.00
1	E	1659	LEU	CB-CG-CD1	6.02	121.24	111.00
1	E	2518	LEU	CB-CG-CD2	6.02	121.24	111.00
1	A	3282	PRO	N-CA-CB	6.02	110.52	103.30
1	E	472	ARG	NE-CZ-NH2	-6.02	117.29	120.30
1	A	4191	GLU	OE1-CD-OE2	-6.01	116.09	123.30
1	C	1659	LEU	CB-CG-CD1	6.00	121.21	111.00
1	E	4191	GLU	OE1-CD-OE2	-6.00	116.10	123.30
1	G	3062	PRO	N-CA-CB	6.00	110.50	103.30
1	G	4844	LEU	CA-CB-CG	6.00	129.09	115.30
1	E	4951	LYS	CD-CE-NZ	5.99	125.48	111.70
1	C	4951	LYS	CD-CE-NZ	5.99	125.47	111.70
1	A	5026	ASP	CB-CG-OD1	5.98	123.68	118.30
1	E	291	LEU	CB-CG-CD1	-5.98	100.84	111.00
1	C	291	LEU	CB-CG-CD1	-5.97	100.85	111.00
1	A	472	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	A	1659	LEU	CB-CG-CD1	5.97	121.14	111.00
1	A	625	LEU	CB-CG-CD1	-5.96	100.87	111.00
1	G	1659	LEU	CB-CG-CD1	5.96	121.13	111.00
1	G	2518	LEU	CB-CG-CD2	5.96	121.13	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	971	ASP	N-CA-C	5.96	127.08	111.00
1	E	4215	ARG	NE-CZ-NH1	5.95	123.28	120.30
1	C	4911	LEU	CA-CB-CG	5.95	128.99	115.30
1	E	2546	MET	CB-CG-SD	5.93	130.19	112.40
1	G	522	LEU	CA-CB-CG	5.93	128.93	115.30
1	A	4887	MET	CG-SD-CE	5.92	109.68	100.20
1	A	522	LEU	CA-CB-CG	5.92	128.92	115.30
1	G	3844	LEU	CB-CG-CD1	-5.91	100.95	111.00
1	C	522	LEU	CA-CB-CG	5.91	128.89	115.30
1	C	4039	MET	CG-SD-CE	5.90	109.64	100.20
1	G	625	LEU	CB-CG-CD1	-5.90	100.97	111.00
1	G	73	LEU	CB-CG-CD2	-5.90	100.97	111.00
1	A	4916	PHE	CB-CG-CD1	-5.89	116.67	120.80
1	E	522	LEU	CA-CB-CG	5.89	128.85	115.30
1	C	2454	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	C	971	ASP	N-CA-C	5.89	126.89	111.00
1	E	1976	ARG	CG-CD-NE	5.89	124.16	111.80
1	C	5026	ASP	CB-CG-OD1	5.88	123.59	118.30
1	G	3351	PRO	N-CA-CB	5.88	110.36	103.30
1	G	474	ARG	NE-CZ-NH2	-5.87	117.36	120.30
1	A	4844	LEU	CA-CB-CG	5.87	128.80	115.30
1	A	971	ASP	N-CA-C	5.87	126.85	111.00
1	E	73	LEU	CB-CG-CD2	-5.87	101.03	111.00
1	E	3138	PRO	N-CA-CB	5.85	110.32	103.30
1	E	2429	LEU	CB-CG-CD1	5.85	120.95	111.00
1	A	3773	ARG	NE-CZ-NH2	5.85	123.22	120.30
1	C	3138	PRO	N-CA-CB	5.84	110.31	103.30
1	E	2163	ARG	NE-CZ-NH2	-5.84	117.38	120.30
1	E	3758	MET	CG-SD-CE	5.83	109.53	100.20
1	C	4887	MET	CG-SD-CE	5.82	109.52	100.20
1	C	4844	LEU	CA-CB-CG	5.82	128.68	115.30
1	C	3360	PRO	N-CA-CB	5.81	110.28	103.30
1	G	1076	ARG	NE-CZ-NH2	-5.81	117.39	120.30
1	G	2546	MET	CB-CG-SD	5.81	129.84	112.40
1	C	2429	LEU	CB-CG-CD1	5.81	120.88	111.00
1	A	2631	PRO	N-CA-CB	5.80	110.26	103.30
1	C	2631	PRO	N-CA-CB	5.79	110.25	103.30
1	G	1112	ASP	CB-CG-OD1	5.79	123.52	118.30
1	E	4039	MET	CB-CG-SD	5.79	129.76	112.40
1	G	4980	LEU	CB-CG-CD2	-5.79	101.16	111.00
1	A	1212	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	C	2546	MET	CB-CG-SD	5.77	129.72	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1112	ASP	CB-CG-OD1	5.77	123.49	118.30
1	E	2454	ARG	NE-CZ-NH1	5.77	123.18	120.30
1	A	3360	PRO	N-CA-CB	5.76	110.21	103.30
1	A	4039	MET	CG-SD-CE	5.76	109.42	100.20
1	E	3360	PRO	N-CA-CB	5.76	110.21	103.30
1	E	4916	PHE	CB-CG-CD1	-5.76	116.77	120.80
1	A	46	LEU	CB-CG-CD1	5.76	120.79	111.00
1	C	3062	PRO	N-CA-CB	5.75	110.20	103.30
1	C	4916	PHE	CB-CG-CD1	-5.75	116.78	120.80
1	G	1212	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	E	4887	MET	CA-CB-CG	5.73	123.04	113.30
1	A	2546	MET	CB-CG-SD	5.72	129.57	112.40
1	E	3062	PRO	N-CA-CB	5.72	110.17	103.30
1	A	971	ASP	CB-CG-OD2	5.72	123.45	118.30
1	A	4911	LEU	CA-CB-CG	5.72	128.46	115.30
1	E	625	LEU	CB-CG-CD1	-5.72	101.27	111.00
1	A	3138	PRO	N-CA-CB	5.72	110.16	103.30
1	E	2631	PRO	N-CA-CB	5.72	110.16	103.30
1	A	4991	PHE	CB-CG-CD1	-5.71	116.80	120.80
1	G	472	ARG	NE-CZ-NH2	-5.71	117.44	120.30
1	G	3302	PRO	N-CA-CB	5.70	110.14	103.30
1	G	2631	PRO	N-CA-CB	5.70	110.14	103.30
1	A	3758	MET	CG-SD-CE	5.70	109.32	100.20
1	E	2094	LEU	CB-CG-CD2	5.70	120.69	111.00
1	E	3294	PRO	N-CA-CB	5.70	110.14	103.30
1	A	3294	PRO	N-CA-CB	5.70	110.14	103.30
1	A	4039	MET	CB-CG-SD	5.68	129.43	112.40
1	C	4567	LEU	CB-CG-CD2	5.67	120.63	111.00
1	A	3062	PRO	N-CA-CB	5.66	110.09	103.30
1	C	3294	PRO	N-CA-CB	5.66	110.09	103.30
1	A	4567	LEU	CB-CG-CD2	5.65	120.61	111.00
1	E	4976	GLU	OE1-CD-OE2	5.65	130.08	123.30
1	E	2518	LEU	CB-CG-CD1	-5.65	101.40	111.00
1	C	2094	LEU	CB-CG-CD1	-5.64	101.40	111.00
1	E	2094	LEU	CB-CG-CD1	-5.64	101.40	111.00
1	A	3351	PRO	N-CA-CB	5.64	110.07	103.30
1	C	3758	MET	CG-SD-CE	5.63	109.21	100.20
1	G	971	ASP	CB-CG-OD2	5.63	123.37	118.30
1	A	1112	ASP	CB-CG-OD1	5.62	123.36	118.30
1	C	1076	ARG	NE-CZ-NH2	-5.61	117.49	120.30
1	C	4044	MET	CB-CG-SD	-5.61	95.56	112.40
1	E	4911	LEU	CA-CB-CG	5.61	128.21	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4044	MET	CB-CG-SD	-5.61	95.57	112.40
1	C	2094	LEU	CB-CG-CD2	5.61	120.54	111.00
1	C	2116	LEU	CB-CG-CD2	-5.61	101.47	111.00
1	E	4880	MET	CB-CG-SD	5.61	129.22	112.40
1	E	4112	LEU	CB-CG-CD1	5.60	120.53	111.00
1	C	4581	LYS	CD-CE-NZ	5.60	124.58	111.70
1	C	1212	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	E	4039	MET	CG-SD-CE	5.60	109.16	100.20
1	G	3769	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	G	4048	LEU	CB-CG-CD2	5.60	120.52	111.00
1	G	2116	LEU	CB-CG-CD2	-5.59	101.49	111.00
1	G	2094	LEU	CB-CG-CD2	5.59	120.51	111.00
1	C	474	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	C	1112	ASP	CB-CG-OD1	5.59	123.33	118.30
1	A	2094	LEU	CB-CG-CD1	-5.59	101.50	111.00
1	C	625	LEU	CB-CG-CD1	-5.58	101.51	111.00
1	C	2518	LEU	CB-CG-CD1	-5.57	101.53	111.00
1	G	4202	ARG	NE-CZ-NH2	5.57	123.09	120.30
1	G	4916	PHE	CB-CG-CD1	-5.57	116.90	120.80
1	G	2518	LEU	CB-CG-CD1	-5.57	101.54	111.00
1	A	2518	LEU	CB-CG-CD1	-5.56	101.54	111.00
1	E	46	LEU	CB-CG-CD1	5.56	120.45	111.00
1	E	118	LEU	CB-CG-CD2	-5.56	101.55	111.00
1	C	46	LEU	CB-CG-CD1	5.56	120.45	111.00
1	G	180	LEU	CB-CG-CD2	-5.56	101.55	111.00
1	E	4044	MET	CB-CG-SD	-5.55	95.74	112.40
1	C	2454	ARG	NE-CZ-NH2	-5.55	117.53	120.30
1	A	1076	ARG	NE-CZ-NH2	-5.55	117.53	120.30
1	E	474	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	C	4679	ARG	NE-CZ-NH1	5.54	123.07	120.30
1	G	2123	LEU	CA-CB-CG	-5.54	102.57	115.30
1	A	2658	PRO	N-CA-CB	5.53	109.94	103.30
1	A	2116	LEU	CB-CG-CD2	-5.53	101.60	111.00
1	A	4909	TYR	CE1-CZ-OH	5.53	135.02	120.10
1	C	4976	GLU	OE1-CD-OE2	5.53	129.93	123.30
1	G	46	LEU	CB-CG-CD1	5.53	120.39	111.00
1	A	2094	LEU	CB-CG-CD2	5.52	120.39	111.00
1	C	3351	PRO	N-CA-CB	5.51	109.92	103.30
1	C	4039	MET	CB-CG-SD	5.51	128.94	112.40
1	A	4581	LYS	CD-CE-NZ	5.51	124.37	111.70
1	C	180	LEU	CB-CG-CD2	-5.51	101.63	111.00
1	E	2454	ARG	NE-CZ-NH2	-5.51	117.55	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4976	GLU	OE1-CD-OE2	5.50	129.90	123.30
1	A	180	LEU	CB-CG-CD2	-5.50	101.66	111.00
1	G	118	LEU	CB-CG-CD2	-5.49	101.66	111.00
1	G	2658	PRO	N-CA-CB	5.49	109.89	103.30
1	A	4202	ARG	NE-CZ-NH1	-5.49	117.56	120.30
1	E	1076	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	A	474	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	G	3294	PRO	N-CA-CB	5.48	109.87	103.30
1	C	971	ASP	CB-CG-OD2	5.48	123.23	118.30
1	E	4567	LEU	CB-CG-CD2	5.47	120.30	111.00
1	G	1976	ARG	CG-CD-NE	5.46	123.27	111.80
1	C	1128	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	E	180	LEU	CB-CG-CD2	-5.46	101.72	111.00
1	C	4649	LEU	CB-CG-CD2	-5.45	101.73	111.00
1	E	632	LEU	CB-CG-CD1	5.44	120.25	111.00
1	E	3351	PRO	N-CA-CB	5.44	109.83	103.30
1	E	22	LEU	CB-CG-CD1	-5.44	101.75	111.00
1	C	4991	PHE	CB-CG-CD1	-5.44	116.99	120.80
1	C	2658	PRO	N-CA-CB	5.44	109.82	103.30
1	E	2658	PRO	N-CA-CB	5.44	109.82	103.30
1	C	632	LEU	CB-CG-CD1	5.43	120.23	111.00
1	A	802	PHE	CB-CG-CD1	-5.42	117.00	120.80
1	E	4887	MET	CG-SD-CE	5.42	108.88	100.20
1	E	3773	ARG	NE-CZ-NH2	5.42	123.01	120.30
1	A	4679	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	C	4112	LEU	CB-CG-CD1	5.42	120.21	111.00
1	A	4215	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	G	773	LEU	CA-CB-CG	5.42	127.76	115.30
1	G	4880	MET	CG-SD-CE	5.42	108.87	100.20
1	A	4112	LEU	CB-CG-CD1	5.41	120.20	111.00
1	G	1548	LEU	CB-CG-CD2	5.41	120.19	111.00
1	E	2116	LEU	CB-CG-CD2	-5.41	101.81	111.00
1	C	3773	ARG	NE-CZ-NH2	5.40	123.00	120.30
1	A	1648	MET	CG-SD-CE	-5.40	91.56	100.20
1	G	1128	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	G	4563	ARG	NE-CZ-NH2	5.40	123.00	120.30
1	C	118	LEU	CB-CG-CD2	-5.39	101.83	111.00
1	A	2115	GLU	N-CA-CB	-5.39	100.90	110.60
1	G	2063	LEU	CB-CG-CD1	-5.39	101.84	111.00
1	E	4632	LEU	CA-CB-CG	5.38	127.67	115.30
1	A	1128	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	C	4215	ARG	NE-CZ-NH1	5.38	122.99	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4980	LEU	CD1-CG-CD2	5.38	126.64	110.50
1	E	802	PHE	CB-CG-CD1	-5.38	117.04	120.80
1	E	4679	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	E	4822	THR	CA-CB-CG2	-5.37	104.88	112.40
1	G	4703	ARG	NE-CZ-NH1	5.37	122.99	120.30
1	C	1836	PHE	CB-CG-CD1	-5.37	117.04	120.80
1	C	2163	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	G	632	LEU	CB-CG-CD1	5.36	120.11	111.00
1	A	4649	LEU	CB-CG-CD2	-5.36	101.90	111.00
1	E	1842	LEU	CB-CG-CD1	5.35	120.10	111.00
1	A	632	LEU	CB-CG-CD1	5.35	120.10	111.00
1	E	4649	LEU	CB-CG-CD2	-5.35	101.91	111.00
1	A	118	LEU	CB-CG-CD2	-5.35	101.91	111.00
1	G	22	LEU	CB-CG-CD1	-5.34	101.92	111.00
1	A	4980	LEU	CD1-CG-CD2	5.34	126.52	110.50
1	A	1836	PHE	CB-CG-CD1	-5.34	117.06	120.80
1	A	2454	ARG	NE-CZ-NH1	5.34	122.97	120.30
1	C	1842	LEU	CB-CG-CD1	5.34	120.07	111.00
1	E	2115	GLU	N-CA-CB	-5.33	101.00	110.60
1	E	4980	LEU	CD1-CG-CD2	5.33	126.49	110.50
1	G	4951	LYS	CD-CE-NZ	5.32	123.94	111.70
1	C	2115	GLU	N-CA-CB	-5.32	101.03	110.60
2	F	32	ASP	CB-CG-OD1	5.32	123.08	118.30
1	E	2497	ASP	CB-CG-OD2	-5.31	113.52	118.30
2	B	32	ASP	CB-CG-OD1	5.30	123.07	118.30
1	G	2115	GLU	N-CA-CB	-5.30	101.05	110.60
1	A	2163	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	C	2616	PRO	N-CA-CB	5.30	109.66	103.30
1	E	1548	LEU	CB-CG-CD2	5.30	120.01	111.00
1	E	4814	LEU	CB-CG-CD1	5.30	120.01	111.00
1	E	1212	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	A	1259	ARG	NE-CZ-NH2	-5.29	117.65	120.30
1	E	4844	LEU	CA-CB-CG	5.29	127.47	115.30
1	A	1842	LEU	CB-CG-CD1	5.29	119.99	111.00
1	C	4885	PHE	CB-CG-CD1	-5.29	117.10	120.80
1	G	4909	TYR	CE1-CZ-OH	5.29	134.38	120.10
1	A	2616	PRO	N-CA-CB	5.29	109.64	103.30
1	C	1548	LEU	CB-CG-CD2	5.28	119.97	111.00
1	A	1548	LEU	CB-CG-CD2	5.27	119.96	111.00
1	E	2063	LEU	CB-CG-CD1	-5.27	102.04	111.00
1	G	802	PHE	CB-CG-CD1	-5.27	117.11	120.80
1	G	2616	PRO	N-CA-CB	5.26	109.62	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	746	CYS	CA-CB-SG	-5.26	104.53	114.00
1	E	4991	PHE	CB-CG-CD1	-5.26	117.12	120.80
1	E	1128	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	A	2926	LEU	O-C-N	5.24	131.08	122.70
1	C	1648	MET	CG-SD-CE	-5.24	91.82	100.20
1	G	1648	MET	CG-SD-CE	-5.24	91.82	100.20
1	C	802	PHE	CB-CG-CD1	-5.23	117.14	120.80
1	G	2094	LEU	CB-CG-CD1	-5.23	102.11	111.00
1	G	1842	LEU	CB-CG-CD1	5.23	119.89	111.00
1	G	4159	ARG	NE-CZ-NH1	5.23	122.92	120.30
1	C	3841	VAL	CG1-CB-CG2	5.23	119.27	110.90
1	C	1259	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	E	4048	LEU	CB-CG-CD1	-5.21	102.15	111.00
1	C	22	LEU	CB-CG-CD1	-5.21	102.15	111.00
1	G	2163	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	G	4581	LYS	CD-CE-NZ	5.20	123.67	111.70
1	E	2616	PRO	N-CA-CB	5.20	109.54	103.30
1	C	4800	LEU	CB-CG-CD1	5.20	119.83	111.00
1	E	4796	MET	CG-SD-CE	5.19	108.51	100.20
1	E	3751	VAL	CB-CA-C	-5.19	101.54	111.40
1	E	1259	ARG	NE-CZ-NH2	-5.19	117.71	120.30
1	G	746	CYS	CA-CB-SG	-5.18	104.67	114.00
1	E	1648	MET	CG-SD-CE	-5.17	91.92	100.20
1	A	3780	LEU	CB-CG-CD1	5.17	119.79	111.00
1	G	2712	PRO	N-CA-CB	5.17	109.50	103.30
1	C	4048	LEU	CB-CG-CD1	-5.16	102.22	111.00
1	C	746	CYS	CA-CB-SG	-5.16	104.71	114.00
2	D	32	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	E	3841	VAL	CG1-CB-CG2	5.16	119.16	110.90
1	G	1259	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	E	4800	LEU	CB-CG-CD1	5.16	119.76	111.00
1	E	773	LEU	CA-CB-CG	5.15	127.16	115.30
1	G	1865	MET	CG-SD-CE	-5.15	91.96	100.20
1	G	4215	ARG	CD-NE-CZ	5.15	130.81	123.60
1	A	3932	ASP	CB-CG-OD2	5.15	122.93	118.30
1	A	3841	VAL	CG1-CB-CG2	5.15	119.13	110.90
1	C	3787	LYS	CD-CE-NZ	5.14	123.53	111.70
1	A	746	CYS	CA-CB-SG	-5.14	104.75	114.00
1	A	2497	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	C	3751	VAL	CB-CA-C	-5.13	101.64	111.40
1	C	773	LEU	CA-CB-CG	5.13	127.10	115.30
1	A	3751	VAL	CB-CA-C	-5.13	101.66	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1836	PHE	CB-CG-CD1	-5.13	117.21	120.80
1	C	3729	MET	CB-CG-SD	-5.12	97.02	112.40
1	E	3780	LEU	CB-CG-CD1	5.12	119.71	111.00
1	E	3926	LEU	CB-CG-CD1	5.12	119.71	111.00
1	G	3519	PRO	N-CA-CB	5.12	109.44	103.30
1	C	3780	LEU	CB-CG-CD1	5.11	119.69	111.00
1	A	2244	ARG	NE-CZ-NH1	-5.11	117.75	120.30
1	A	3729	MET	CB-CG-SD	-5.10	97.09	112.40
2	D	32	ASP	CB-CG-OD1	5.10	122.89	118.30
1	E	4769	MET	CG-SD-CE	5.10	108.36	100.20
1	A	4048	LEU	CB-CG-CD1	-5.10	102.33	111.00
1	G	4643	LEU	CA-CB-CG	5.09	127.02	115.30
1	A	4769	MET	CG-SD-CE	5.09	108.35	100.20
1	A	2920	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	A	2063	LEU	CB-CG-CD1	-5.09	102.35	111.00
1	C	1589	PRO	N-CA-C	5.09	125.32	112.10
1	E	4668	LEU	CB-CG-CD1	-5.08	102.36	111.00
1	A	1589	PRO	N-CA-C	5.08	125.31	112.10
1	A	2336	ARG	NE-CZ-NH2	5.08	122.84	120.30
1	E	1600	LEU	CB-CG-CD1	5.08	119.63	111.00
1	E	4215	ARG	CD-NE-CZ	5.08	130.71	123.60
1	A	4632	LEU	CA-CB-CG	5.08	126.97	115.30
1	E	1589	PRO	N-CA-C	5.07	125.29	112.10
1	C	3926	LEU	CB-CG-CD1	5.07	119.62	111.00
1	C	1106	ARG	NE-CZ-NH2	-5.07	117.77	120.30
1	G	4905	ALA	N-CA-CB	5.07	117.19	110.10
1	C	1976	ARG	CG-CD-NE	5.07	122.44	111.80
1	C	2063	LEU	CB-CG-CD1	-5.06	102.39	111.00
1	C	842	PRO	N-CA-C	5.06	125.26	112.10
1	G	1589	PRO	N-CA-C	5.06	125.27	112.10
1	G	2454	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	C	2920	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	G	1931	LEU	CB-CG-CD1	5.06	119.60	111.00
2	B	32	ASP	CB-CG-OD2	-5.05	113.75	118.30
1	E	1836	PHE	CB-CG-CD1	-5.05	117.26	120.80
2	F	32	ASP	CB-CG-OD2	-5.05	113.75	118.30
1	G	842	PRO	N-CA-C	5.05	125.23	112.10
1	C	773	LEU	CB-CG-CD2	5.05	119.58	111.00
1	A	3926	LEU	CB-CG-CD1	5.04	119.57	111.00
1	G	3787	LYS	CD-CE-NZ	5.03	123.28	111.70
1	G	3751	VAL	CB-CA-C	-5.03	101.84	111.40
1	E	2456	ILE	CG1-CB-CG2	-5.03	100.33	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3519	PRO	N-CA-CB	5.03	109.33	103.30
1	E	842	PRO	N-CA-C	5.03	125.17	112.10
1	E	2555	CYS	CA-CB-SG	5.03	123.05	114.00
1	E	3729	MET	CB-CG-SD	-5.03	97.33	112.40
1	G	2497	ASP	CB-CG-OD2	-5.03	113.78	118.30
1	E	4231	MET	CB-CG-SD	5.02	127.47	112.40
1	A	4668	LEU	CB-CG-CD1	-5.01	102.48	111.00
1	C	3519	PRO	N-CA-CB	5.01	109.31	103.30
1	C	4769	MET	CG-SD-CE	5.01	108.22	100.20
1	C	4215	ARG	CD-NE-CZ	5.01	130.61	123.60
1	E	4909	TYR	CE1-CZ-OH	5.01	133.63	120.10
1	A	773	LEU	CB-CG-CD2	5.00	119.51	111.00
1	C	4668	LEU	CB-CG-CD1	-5.00	102.49	111.00

There are no chirality outliers.

All (141) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1100	MET	Peptide
1	A	1251	GLU	Peptide
1	A	1253	PRO	Peptide
1	A	1464	PHE	Peptide
1	A	1588	ALA	Mainchain,Peptide
1	A	1748	PHE	Peptide
1	A	1828	ASP	Mainchain,Peptide
1	A	1854	PHE	Mainchain,Peptide
1	A	1855	GLY	Peptide
1	A	1856	ASP	Mainchain,Peptide
1	A	1867	GLU	Mainchain,Peptide
1	A	1932	PRO	Peptide
1	A	2567	PRO	Peptide
1	A	31	GLU	Mainchain,Peptide
1	A	329	ARG	Mainchain,Peptide
1	A	4819	GLY	Mainchain,Peptide
1	A	4903	ASP	Mainchain,Peptide
1	A	4904	PRO	Mainchain,Peptide
1	A	4905	ALA	Mainchain,Peptide
1	A	734	GLY	Peptide
1	A	841	GLY	Mainchain,Peptide
1	A	894	GLY	Mainchain,Peptide
1	A	970	LEU	Peptide
1	C	1100	MET	Peptide

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Mol	Chain	Res	Type	Group
1	C	1251	GLU	Peptide
1	C	1253	PRO	Peptide
1	C	1464	PHE	Peptide
1	C	1588	ALA	Mainchain,Peptide
1	C	1748	PHE	Peptide
1	C	1828	ASP	Mainchain,Peptide
1	C	1854	PHE	Mainchain,Peptide
1	C	1855	GLY	Peptide
1	C	1856	ASP	Mainchain,Peptide
1	C	1867	GLU	Mainchain,Peptide
1	C	1932	PRO	Peptide
1	C	2567	PRO	Peptide
1	C	31	GLU	Mainchain,Peptide
1	C	329	ARG	Peptide
1	C	4819	GLY	Mainchain,Peptide
1	C	4903	ASP	Mainchain,Peptide
1	C	4904	PRO	Mainchain,Peptide
1	C	4905	ALA	Mainchain,Peptide
1	C	734	GLY	Peptide
1	C	841	GLY	Mainchain,Peptide
1	C	894	GLY	Mainchain,Peptide
1	C	970	LEU	Peptide
1	E	1100	MET	Peptide
1	E	1251	GLU	Peptide
1	E	1253	PRO	Peptide
1	E	1464	PHE	Peptide
1	E	1588	ALA	Mainchain,Peptide
1	E	1748	PHE	Peptide
1	E	1828	ASP	Mainchain,Peptide
1	E	1854	PHE	Mainchain,Peptide
1	E	1855	GLY	Peptide
1	E	1856	ASP	Mainchain,Peptide
1	E	1867	GLU	Mainchain,Peptide
1	E	1932	PRO	Peptide
1	E	2567	PRO	Peptide
1	E	31	GLU	Mainchain,Peptide
1	E	329	ARG	Mainchain,Peptide
1	E	4819	GLY	Mainchain,Peptide
1	E	4903	ASP	Mainchain,Peptide
1	E	4904	PRO	Mainchain,Peptide
1	E	4905	ALA	Mainchain,Peptide
1	E	734	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	E	841	GLY	Mainchain,Peptide
1	E	894	GLY	Mainchain,Peptide
1	E	970	LEU	Peptide
1	G	1100	MET	Peptide
1	G	1253	PRO	Peptide
1	G	1464	PHE	Peptide
1	G	1588	ALA	Mainchain,Peptide
1	G	1748	PHE	Peptide
1	G	1828	ASP	Mainchain,Peptide
1	G	1854	PHE	Mainchain,Peptide
1	G	1855	GLY	Peptide
1	G	1856	ASP	Mainchain,Peptide
1	G	1867	GLU	Mainchain,Peptide
1	G	1932	PRO	Peptide
1	G	31	GLU	Mainchain,Peptide
1	G	329	ARG	Mainchain,Peptide
1	G	4819	GLY	Mainchain,Peptide
1	G	4903	ASP	Mainchain,Peptide
1	G	4904	PRO	Mainchain,Peptide
1	G	4905	ALA	Mainchain,Peptide
1	G	734	GLY	Peptide
1	G	841	GLY	Mainchain,Peptide
1	G	894	GLY	Mainchain,Peptide
1	G	970	LEU	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	26843	0	24428	1190	0
1	C	26843	0	24428	1200	0
1	E	26843	0	24428	1194	0
1	G	26843	0	24427	1209	0
2	B	832	0	831	58	0
2	D	832	0	831	54	0
2	F	832	0	831	58	0
2	H	832	0	831	58	0
3	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	1	0	0	0	0
3	E	1	0	0	0	0
3	G	1	0	0	0	0
All	All	110704	0	101035	4733	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 22.

All (4733) 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)
1:A:4880:MET:HA	1:G:4578:LEU:HD11	1.26	1.17
1:A:4578:LEU:HD11	1:C:4880:MET:HA	1.18	1.17
1:E:4578:LEU:HD11	1:G:4880:MET:HA	1.25	1.16
1:C:4578:LEU:HD11	1:E:4880:MET:HA	1.17	1.10
1:A:4822:THR:HG22	1:C:4839:MET:SD	1.93	1.08
1:C:4822:THR:HG22	1:E:4839:MET:SD	1.95	1.05
1:A:4931:ILE:HD11	1:G:4940:PHE:CE1	1.96	1.00
1:A:4892:ARG:CZ	1:C:4896:GLY:HA3	1.95	0.97
1:E:1835:GLU:HG3	1:E:1932:PRO:HG2	1.46	0.97
1:C:1835:GLU:HG3	1:C:1932:PRO:HG2	1.45	0.96
1:A:1783:VAL:HG12	2:B:55:VAL:HA	1.47	0.95
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	2.00	0.95
1:E:626:LEU:O	1:E:629:ARG:NH1	1.99	0.95
1:C:626:LEU:O	1:C:629:ARG:NH1	1.99	0.95
1:E:1808:ARG:NH1	1:E:1858:ASP:OD2	2.00	0.95
1:A:4839:MET:HE3	1:G:4822:THR:O	1.65	0.95
1:G:1808:ARG:NH1	1:G:1858:ASP:OD2	2.00	0.95
1:A:1835:GLU:HG3	1:A:1932:PRO:HG2	1.46	0.94
1:G:1783:VAL:HG12	2:H:55:VAL:HA	1.47	0.94
1:C:4822:THR:CG2	1:E:4839:MET:SD	2.55	0.94
1:G:4192:ARG:HH11	1:G:5028:PHE:HB3	1.33	0.94
1:A:3970:GLN:NE2	1:A:5003:HIS:O	2.01	0.93
1:G:1835:GLU:HG3	1:G:1932:PRO:HG2	1.45	0.93
1:A:626:LEU:O	1:A:629:ARG:NH1	1.99	0.93
1:A:4921:PHE:CZ	1:G:4892:ARG:HA	2.03	0.93
1:C:1294:PRO:HD2	1:C:1584:ARG:HH11	1.34	0.93
1:C:1808:ARG:NH1	1:C:1858:ASP:OD2	2.00	0.93
1:A:1294:PRO:HD2	1:A:1584:ARG:HH11	1.34	0.93
1:C:3970:GLN:NE2	1:C:5003:HIS:O	2.01	0.93
1:G:1294:PRO:HD2	1:G:1584:ARG:HH11	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4822:THR:CG2	1:C:4839:MET:SD	2.56	0.93
1:C:1783:VAL:HG12	2:D:55:VAL:HA	1.52	0.92
1:E:3970:GLN:NE2	1:E:5003:HIS:O	2.02	0.92
1:E:1294:PRO:HD2	1:E:1584:ARG:HH11	1.34	0.92
1:G:626:LEU:O	1:G:629:ARG:NH1	2.01	0.91
1:C:4892:ARG:CZ	1:E:4896:GLY:HA3	2.01	0.90
1:E:1783:VAL:HG12	2:F:55:VAL:HA	1.54	0.90
1:C:4192:ARG:HH11	1:C:5028:PHE:HB3	1.37	0.89
1:A:4192:ARG:HH11	1:A:5028:PHE:HB3	1.36	0.89
1:C:4892:ARG:HA	1:E:4921:PHE:CZ	2.06	0.89
1:A:4896:GLY:HA3	1:G:4892:ARG:CZ	2.03	0.89
1:A:4839:MET:SD	1:G:4822:THR:HG22	2.12	0.89
1:E:4192:ARG:HH11	1:E:5028:PHE:HB3	1.37	0.88
1:A:2456:ILE:HD11	1:C:178:ARG:HH12	1.38	0.88
1:A:2059:LEU:HD22	1:A:2062:ARG:HH12	1.38	0.88
2:D:23:VAL:HG22	2:D:47:LYS:HG2	1.56	0.88
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.56	0.88
1:A:1436:SER:HA	1:A:1515:VAL:O	1.75	0.87
1:E:4826:ILE:HD11	1:G:4839:MET:SD	2.15	0.87
1:C:2059:LEU:HD22	1:C:2062:ARG:HH12	1.38	0.87
1:A:1439:VAL:N	1:A:1513:ASP:O	2.07	0.87
1:E:2173:GLN:HG2	1:E:2174:GLU:H	1.40	0.87
1:G:2173:GLN:HG2	1:G:2174:GLU:H	1.40	0.87
1:A:4839:MET:CE	1:G:4822:THR:O	2.23	0.87
2:B:23:VAL:HG22	2:B:47:LYS:HG2	1.56	0.87
1:C:4578:LEU:HD11	1:E:4880:MET:CA	2.05	0.86
1:C:2173:GLN:HG2	1:C:2174:GLU:H	1.40	0.86
1:A:2173:GLN:HG2	1:A:2174:GLU:H	1.40	0.86
1:E:2456:ILE:HD11	1:G:178:ARG:HH12	1.39	0.86
1:A:178:ARG:HH12	1:G:2456:ILE:HD11	1.40	0.86
1:C:2456:ILE:HD11	1:E:178:ARG:HH12	1.41	0.86
1:E:674:PHE:HZ	2:F:71:ARG:CZ	1.88	0.86
1:A:289:ARG:NH1	1:A:303:ASP:OD1	2.09	0.85
1:A:1555:LEU:HD12	1:A:1556:PRO:HD2	1.58	0.85
1:C:2922:LYS:HA	1:C:2925:GLU:CG	2.05	0.85
1:A:2459:SER:O	1:C:131:LEU:HD23	1.77	0.85
1:A:2922:LYS:HA	1:A:2925:GLU:CG	2.06	0.85
1:E:2059:LEU:HD22	1:E:2062:ARG:HH12	1.38	0.85
1:G:2059:LEU:HD22	1:G:2062:ARG:HH12	1.38	0.85
1:G:4708:THR:HG22	1:G:4710:SER:H	1.41	0.85
1:C:674:PHE:HZ	2:D:71:ARG:CZ	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3772:THR:OG1	1:C:3773:ARG:NH1	2.10	0.85
1:C:1555:LEU:HD12	1:C:1556:PRO:HD2	1.59	0.85
1:C:289:ARG:NH1	1:C:303:ASP:OD1	2.10	0.85
1:A:3772:THR:OG1	1:A:3773:ARG:NH1	2.10	0.84
1:A:4839:MET:HE3	1:G:4826:ILE:HG13	1.59	0.84
1:A:4839:MET:SD	1:G:4822:THR:CG2	2.65	0.84
1:A:4892:ARG:HA	1:C:4921:PHE:CZ	2.11	0.84
1:A:131:LEU:HD23	1:G:2459:SER:O	1.77	0.84
1:C:2922:LYS:O	1:C:2925:GLU:HB2	1.77	0.84
1:E:289:ARG:NH1	1:E:303:ASP:OD1	2.10	0.84
1:E:674:PHE:CZ	2:F:71:ARG:CZ	2.60	0.84
1:G:289:ARG:NH1	1:G:303:ASP:OD1	2.10	0.84
1:G:1555:LEU:HD12	1:G:1556:PRO:HD2	1.59	0.84
1:G:4780:PHE:HA	1:G:4783:ILE:HD12	1.59	0.84
1:C:4708:THR:HG22	1:C:4710:SER:H	1.41	0.84
1:E:3772:THR:OG1	1:E:3773:ARG:NH1	2.10	0.84
1:C:4172:GLU:HG2	1:C:4175:ARG:HH12	1.43	0.83
1:C:2234:ARG:HH12	1:C:2271:THR:N	1.76	0.83
1:E:4708:THR:HG22	1:E:4710:SER:H	1.41	0.83
1:A:4708:THR:HG22	1:A:4710:SER:H	1.41	0.83
1:E:1555:LEU:HD12	1:E:1556:PRO:HD2	1.59	0.83
1:E:2234:ARG:HH12	1:E:2271:THR:N	1.76	0.83
1:E:2459:SER:O	1:G:131:LEU:HD23	1.79	0.82
1:A:2234:ARG:HH12	1:A:2271:THR:N	1.76	0.82
1:A:674:PHE:HZ	2:B:71:ARG:CZ	1.91	0.82
1:C:674:PHE:CZ	2:D:71:ARG:CZ	2.62	0.82
1:C:2921:GLU:O	1:C:2925:GLU:HG2	1.79	0.82
1:C:4578:LEU:CD1	1:E:4880:MET:HA	2.06	0.82
1:A:2922:LYS:O	1:A:2925:GLU:HB2	1.80	0.82
1:G:2234:ARG:HH12	1:G:2271:THR:N	1.76	0.82
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.61	0.82
1:G:4033:GLY:O	1:G:4189:ARG:NH2	2.12	0.82
1:E:495:ASN:ND2	1:E:555:GLU:OE2	2.13	0.81
1:C:4940:PHE:CE1	1:E:4931:ILE:HD11	2.16	0.81
1:G:495:ASN:ND2	1:G:555:GLU:OE2	2.13	0.81
1:C:2459:SER:O	1:E:131:LEU:HD23	1.81	0.81
1:A:4578:LEU:CD1	1:C:4880:MET:HA	2.05	0.81
1:E:702:TRP:HD1	2:F:34:LYS:HZ1	1.27	0.80
1:E:3750:GLU:HA	1:E:3753:PHE:HB3	1.62	0.80
1:C:3750:GLU:HA	1:C:3753:PHE:HB3	1.62	0.80
1:A:674:PHE:CZ	2:B:71:ARG:CZ	2.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4033:GLY:O	1:A:4189:ARG:NH2	2.15	0.80
1:A:4578:LEU:HD11	1:C:4880:MET:CA	2.08	0.80
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.62	0.80
1:C:102:LEU:HB2	1:C:105:HIS:CD2	2.17	0.80
1:E:102:LEU:HB2	1:E:105:HIS:CD2	2.17	0.79
1:E:4033:GLY:O	1:E:4189:ARG:NH2	2.15	0.79
1:C:495:ASN:ND2	1:C:555:GLU:OE2	2.14	0.79
1:A:3750:GLU:HA	1:A:3753:PHE:HB3	1.63	0.79
1:G:1032:LYS:HB3	1:G:1036:ARG:HH12	1.48	0.79
1:A:2921:GLU:O	1:A:2925:GLU:HG2	1.82	0.79
1:A:495:ASN:ND2	1:A:555:GLU:OE2	2.14	0.79
1:A:4172:GLU:HG2	1:A:4175:ARG:HH12	1.46	0.79
1:E:4172:GLU:HG2	1:E:4175:ARG:HH12	1.47	0.79
1:G:4033:GLY:HA2	1:G:4189:ARG:HH12	1.46	0.79
1:E:4578:LEU:CD1	1:G:4880:MET:HA	2.08	0.79
1:G:1457:TYR:OH	1:G:1459:GLN:NE2	2.15	0.79
1:A:174:VAL:O	1:G:2452:ARG:NH2	2.16	0.78
1:A:1032:LYS:HB3	1:A:1036:ARG:HH12	1.47	0.78
1:C:4033:GLY:O	1:C:4189:ARG:NH2	2.15	0.78
1:A:102:LEU:HB2	1:A:105:HIS:CD2	2.18	0.78
1:E:3677:LEU:HB2	1:E:3698:LEU:HD12	1.65	0.78
1:G:102:LEU:HB2	1:G:105:HIS:CD2	2.17	0.78
1:G:3772:THR:OG1	1:G:3773:ARG:NH1	2.16	0.78
1:E:675:LEU:HD23	1:E:676:THR:HG23	1.66	0.78
1:A:2463:LEU:N	1:A:2510:TYR:HH	1.81	0.78
1:E:4578:LEU:HD11	1:G:4880:MET:CA	2.10	0.78
1:G:4971:THR:HG23	1:G:4974:GLY:HA3	1.66	0.78
1:A:4880:MET:CA	1:G:4578:LEU:HD11	2.12	0.78
1:G:830:ARG:HD3	1:G:1616:GLU:OE2	1.83	0.78
1:E:830:ARG:HD3	1:E:1616:GLU:OE2	1.84	0.78
1:E:2463:LEU:N	1:E:2510:TYR:HH	1.81	0.78
1:C:2463:LEU:N	1:C:2510:TYR:HH	1.82	0.78
1:E:1032:LYS:HB3	1:E:1036:ARG:HH12	1.48	0.78
1:A:830:ARG:HD3	1:A:1616:GLU:OE2	1.83	0.77
1:C:675:LEU:HD23	1:C:676:THR:HG23	1.66	0.77
1:C:1294:PRO:HD2	1:C:1584:ARG:NH1	1.99	0.77
1:C:3677:LEU:HB2	1:C:3698:LEU:HD12	1.66	0.77
1:E:4780:PHE:HA	1:E:4783:ILE:HD12	1.66	0.77
1:G:1294:PRO:HD2	1:G:1584:ARG:NH1	1.99	0.77
1:G:675:LEU:HD23	1:G:676:THR:HG23	1.66	0.77
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1294:PRO:HD2	1:E:1584:ARG:NH1	2.00	0.77
1:C:4780:PHE:HA	1:C:4783:ILE:HD12	1.67	0.77
1:G:3970:GLN:NE2	1:G:5003:HIS:O	2.17	0.77
1:A:830:ARG:NH1	1:A:1613:LEU:O	2.18	0.76
1:C:830:ARG:NH1	1:C:1613:LEU:O	2.18	0.76
1:A:1294:PRO:HD2	1:A:1584:ARG:NH1	1.99	0.76
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.66	0.76
1:E:4889:VAL:O	1:E:4893:ALA:N	2.18	0.76
1:G:830:ARG:NH1	1:G:1613:LEU:O	2.18	0.76
1:C:1032:LYS:HB3	1:C:1036:ARG:HH12	1.48	0.76
1:C:830:ARG:HD3	1:C:1616:GLU:OE2	1.84	0.76
1:G:1078:GLU:HA	1:G:1237:TRP:HZ3	1.50	0.76
1:G:2463:LEU:N	1:G:2510:TYR:HH	1.83	0.76
1:A:355:LEU:HD22	1:A:379:HIS:HA	1.65	0.76
1:A:675:LEU:HD23	1:A:676:THR:HG23	1.66	0.76
1:A:1078:GLU:HA	1:A:1237:TRP:HZ3	1.50	0.76
1:G:1933:GLU:OE2	1:G:2111:VAL:HG12	1.84	0.76
1:E:1078:GLU:HA	1:E:1237:TRP:HZ3	1.50	0.76
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.67	0.76
1:A:3677:LEU:HB2	1:A:3698:LEU:HD12	1.66	0.76
1:G:674:PHE:CZ	2:H:71:ARG:CZ	2.69	0.76
1:A:4780:PHE:HA	1:A:4783:ILE:HD12	1.68	0.76
1:A:4880:MET:HA	1:G:4578:LEU:CD1	2.13	0.76
1:G:2924:GLN:HB3	1:G:2928:LYS:HE2	1.68	0.76
1:A:717:ASP:HB2	2:B:7:ILE:HG23	1.69	0.75
1:E:830:ARG:NH1	1:E:1613:LEU:O	2.19	0.75
1:C:717:ASP:HB2	2:D:7:ILE:HG23	1.68	0.75
1:C:1933:GLU:OE2	1:C:2111:VAL:HG12	1.86	0.75
1:A:1933:GLU:OE2	1:A:2111:VAL:HG12	1.86	0.75
1:C:1078:GLU:HA	1:C:1237:TRP:HZ3	1.50	0.75
1:E:1933:GLU:OE2	1:E:2111:VAL:HG12	1.86	0.75
1:G:355:LEU:HD22	1:G:379:HIS:HA	1.66	0.75
1:C:702:TRP:HD1	2:D:34:LYS:HZ1	1.31	0.75
1:C:1931:LEU:O	1:C:1936:LYS:NZ	2.20	0.75
1:C:355:LEU:HD22	1:C:379:HIS:HA	1.68	0.75
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.69	0.75
1:E:717:ASP:HB2	2:F:7:ILE:HG23	1.69	0.75
1:E:1457:TYR:OH	1:E:1459:GLN:NE2	2.19	0.75
1:E:4892:ARG:CZ	1:G:4896:GLY:HA3	2.17	0.74
1:A:1457:TYR:OH	1:A:1459:GLN:NE2	2.19	0.74
1:A:2456:ILE:HD11	1:C:178:ARG:NH1	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3882:GLN:HB2	1:C:3957:VAL:HG22	1.70	0.74
1:A:1205:GLY:HA3	1:A:1227:ALA:HB3	1.69	0.74
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.69	0.74
1:A:4729:GLY:HA2	1:A:4737:ILE:HG13	1.69	0.74
1:E:42:PHE:HB3	1:E:447:ASP:OD2	1.87	0.74
1:E:355:LEU:HD22	1:E:379:HIS:HA	1.68	0.74
1:G:20:VAL:HG12	1:G:204:PRO:HA	1.70	0.74
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.70	0.74
1:A:3882:GLN:HB2	1:A:3957:VAL:HG22	1.70	0.74
1:E:20:VAL:HG12	1:E:204:PRO:HA	1.69	0.74
1:E:3882:GLN:HB2	1:E:3957:VAL:HG22	1.70	0.74
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.70	0.74
1:E:2456:ILE:HD11	1:G:178:ARG:NH1	2.03	0.73
1:E:3756:LYS:NZ	1:E:4999:ASP:OD1	2.20	0.73
1:G:674:PHE:HZ	2:H:71:ARG:CZ	2.02	0.73
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.21	0.73
1:A:42:PHE:HB3	1:A:447:ASP:OD2	1.87	0.73
1:A:1141:ARG:HH12	1:A:1169:LEU:HD11	1.54	0.73
1:A:1708:ARG:NH2	1:A:1837:GLN:HA	2.04	0.73
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.69	0.73
1:A:4207:MET:HG2	1:A:4208:PRO:HD3	1.71	0.73
1:E:1931:LEU:O	1:E:1936:LYS:NZ	2.19	0.73
1:A:4940:PHE:CE1	1:C:4931:ILE:HD11	2.23	0.73
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.69	0.73
1:C:2456:ILE:HD11	1:E:178:ARG:NH1	2.04	0.73
1:E:1669:LEU:O	1:E:1673:VAL:HG23	1.88	0.73
1:A:2452:ARG:NH2	1:C:174:VAL:O	2.20	0.73
1:C:2452:ARG:NH2	1:E:174:VAL:O	2.21	0.73
1:E:1205:GLY:HA3	1:E:1227:ALA:HB3	1.71	0.73
1:E:4207:MET:HG2	1:E:4208:PRO:HD3	1.71	0.73
1:G:42:PHE:HB3	1:G:447:ASP:OD2	1.88	0.73
1:A:1439:VAL:HB	1:A:1513:ASP:HB2	1.69	0.73
1:C:42:PHE:HB3	1:C:447:ASP:OD2	1.87	0.73
1:E:1075:PHE:HB2	1:E:1192:CYS:HB2	1.71	0.73
1:G:1075:PHE:HB2	1:G:1192:CYS:HB2	1.71	0.73
1:A:4876:CYS:O	1:A:4881:THR:OG1	2.07	0.73
1:C:281:ARG:HG2	1:C:312:THR:HG21	1.71	0.73
1:C:1669:LEU:O	1:C:1673:VAL:HG23	1.89	0.73
1:A:818:ARG:HG2	1:A:1028:ASP:HA	1.71	0.72
1:A:1075:PHE:HB2	1:A:1192:CYS:HB2	1.71	0.72
1:E:4727:LYS:HZ1	1:E:4728:HIS:CE1	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4036:VAL:O	1:G:4038:GLY:N	2.22	0.72
1:G:4960:ILE:HD11	1:G:4985:LEU:HB2	1.71	0.72
1:A:683:ARG:HH12	1:A:725:HIS:CD2	2.07	0.72
1:C:818:ARG:HG2	1:C:1028:ASP:HA	1.71	0.72
1:C:4876:CYS:O	1:C:4881:THR:OG1	2.06	0.72
1:G:1669:LEU:O	1:G:1673:VAL:HG23	1.89	0.72
1:G:4961:CYS:SG	1:G:4978:HIS:NE2	2.63	0.72
1:A:674:PHE:HB3	2:B:40:ARG:NH1	2.04	0.72
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.25	0.72
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.24	0.72
1:C:1708:ARG:NH2	1:C:1837:GLN:HA	2.04	0.72
1:E:818:ARG:HG2	1:E:1028:ASP:HA	1.72	0.72
1:E:1708:ARG:NH2	1:E:1837:GLN:HA	2.04	0.72
1:E:2452:ARG:NH2	1:G:174:VAL:O	2.23	0.72
1:E:4729:GLY:HA2	1:E:4737:ILE:HG13	1.69	0.72
1:G:1205:GLY:HA3	1:G:1227:ALA:HB3	1.72	0.72
1:A:178:ARG:NH1	1:G:2456:ILE:HD11	2.03	0.72
1:A:1669:LEU:O	1:A:1673:VAL:HG23	1.89	0.72
1:C:1205:GLY:HA3	1:C:1227:ALA:HB3	1.70	0.72
1:E:674:PHE:HB3	2:F:40:ARG:NH1	2.03	0.72
1:E:4876:CYS:O	1:E:4881:THR:OG1	2.05	0.72
1:G:683:ARG:HH12	1:G:725:HIS:CD2	2.08	0.72
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.25	0.72
1:G:818:ARG:HG2	1:G:1028:ASP:HA	1.72	0.72
1:G:1708:ARG:NH2	1:G:1837:GLN:HA	2.03	0.72
1:A:1931:LEU:O	1:A:1936:LYS:NZ	2.20	0.72
1:A:1941:ASN:O	1:A:1944:GLU:HG2	1.90	0.72
1:C:1075:PHE:HB2	1:C:1192:CYS:HB2	1.71	0.72
1:C:1783:VAL:CG1	2:D:55:VAL:HA	2.19	0.72
1:C:4729:GLY:HA2	1:C:4737:ILE:HG13	1.70	0.72
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.55	0.72
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.24	0.72
1:A:281:ARG:HG2	1:A:312:THR:HG21	1.71	0.72
1:A:544:LEU:HD12	1:A:574:VAL:HG13	1.72	0.72
1:G:674:PHE:HB3	2:H:40:ARG:NH1	2.04	0.72
1:G:717:ASP:HB2	2:H:7:ILE:HG23	1.72	0.72
1:A:293:LEU:H	1:A:311:ALA:HB1	1.54	0.71
1:C:674:PHE:HB3	2:D:40:ARG:NH1	2.05	0.71
1:C:2922:LYS:HA	1:C:2925:GLU:HG3	1.70	0.71
1:C:4207:MET:HG2	1:C:4208:PRO:HD3	1.71	0.71
1:E:2921:GLU:O	1:E:2925:GLU:HG2	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4892:ARG:NH1	1:C:4896:GLY:HA3	2.04	0.71
1:A:4033:GLY:HA2	1:A:4189:ARG:HH12	1.55	0.71
1:C:1032:LYS:HB3	1:C:1036:ARG:NH1	2.05	0.71
1:E:1941:ASN:O	1:E:1944:GLU:HG2	1.90	0.71
1:G:298:GLY:HA3	1:G:377:ILE:HB	1.72	0.71
1:G:1141:ARG:HH12	1:G:1169:LEU:HD11	1.55	0.71
1:A:1032:LYS:HB3	1:A:1036:ARG:NH1	2.05	0.71
1:C:683:ARG:HH12	1:C:725:HIS:CD2	2.07	0.71
1:C:2178:MET:O	1:C:2182:ILE:HG12	1.90	0.71
1:C:1439:VAL:HB	1:C:1513:ASP:HB2	1.71	0.71
1:E:683:ARG:HH12	1:E:725:HIS:CD2	2.07	0.71
1:A:702:TRP:HD1	2:B:34:LYS:HZ1	1.30	0.71
1:C:4643:LEU:HA	1:C:4646:LEU:HB2	1.72	0.71
1:G:3750:GLU:HA	1:G:3753:PHE:HB3	1.72	0.71
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.72	0.71
1:C:1941:ASN:O	1:C:1944:GLU:HG2	1.91	0.71
1:E:544:LEU:HD12	1:E:574:VAL:HG13	1.72	0.71
1:E:1032:LYS:HB3	1:E:1036:ARG:NH1	2.05	0.71
1:G:293:LEU:H	1:G:311:ALA:HB1	1.54	0.71
1:G:1783:VAL:CG1	2:H:55:VAL:HA	2.20	0.71
1:A:2178:MET:O	1:A:2182:ILE:HG12	1.91	0.71
1:C:3756:LYS:NZ	1:C:4999:ASP:OD1	2.20	0.71
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.72	0.71
1:G:1941:ASN:O	1:G:1944:GLU:HG2	1.91	0.71
1:G:4729:GLY:HA2	1:G:4737:ILE:HG13	1.73	0.71
1:G:4913:ARG:HA	1:G:4916:PHE:HB3	1.71	0.71
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.56	0.71
1:E:298:GLY:HA3	1:E:377:ILE:HB	1.72	0.71
1:E:1783:VAL:CG1	2:F:55:VAL:HA	2.19	0.71
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.56	0.71
1:G:674:PHE:CD1	2:H:40:ARG:NH1	2.58	0.71
1:G:1078:GLU:HG2	1:G:1080:SER:H	1.55	0.71
1:C:544:LEU:HD12	1:C:574:VAL:HG13	1.72	0.71
1:E:1078:GLU:HG2	1:E:1080:SER:H	1.55	0.71
1:G:670:GLU:HA	1:G:740:PRO:HB3	1.71	0.71
1:E:293:LEU:H	1:E:311:ALA:HB1	1.54	0.70
1:G:281:ARG:HG2	1:G:312:THR:HG21	1.71	0.70
1:A:670:GLU:HA	1:A:740:PRO:HB3	1.72	0.70
1:A:1078:GLU:HG2	1:A:1080:SER:H	1.55	0.70
1:C:293:LEU:H	1:C:311:ALA:HB1	1.54	0.70
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4643:LEU:HA	1:E:4646:LEU:HB2	1.72	0.70
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.72	0.70
1:E:4961:CYS:SG	1:E:4978:HIS:NE2	2.61	0.70
1:G:4983:HIS:O	1:G:4985:LEU:N	2.23	0.70
1:A:4643:LEU:HA	1:A:4646:LEU:HB2	1.73	0.70
1:A:298:GLY:HA3	1:A:377:ILE:HB	1.72	0.70
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.25	0.70
1:E:281:ARG:HG2	1:E:312:THR:HG21	1.72	0.70
1:A:2293:GLN:HA	1:A:2296:GLU:HG2	1.73	0.70
1:C:298:GLY:HA3	1:C:377:ILE:HB	1.72	0.70
1:C:1663:HIS:O	1:C:1666:THR:OG1	2.08	0.70
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.57	0.70
1:A:3966:THR:O	1:A:3970:GLN:HB2	1.92	0.70
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.55	0.70
1:E:702:TRP:CD1	2:F:34:LYS:NZ	2.56	0.70
1:E:737:LEU:HD11	2:F:7:ILE:HG22	1.73	0.70
1:E:2178:MET:O	1:E:2182:ILE:HG12	1.90	0.70
1:A:3970:GLN:HE21	1:A:5004:THR:HA	1.56	0.70
1:C:670:GLU:HA	1:C:740:PRO:HB3	1.72	0.70
1:E:3966:THR:O	1:E:3970:GLN:HB2	1.92	0.70
1:G:544:LEU:HD12	1:G:574:VAL:HG13	1.72	0.70
1:G:1032:LYS:HB3	1:G:1036:ARG:NH1	2.05	0.70
1:C:4033:GLY:HA2	1:C:4189:ARG:HH12	1.57	0.70
1:E:670:GLU:HA	1:E:740:PRO:HB3	1.72	0.70
1:A:737:LEU:HD11	2:B:7:ILE:HG22	1.72	0.70
1:A:2922:LYS:HA	1:A:2925:GLU:HG3	1.74	0.70
1:E:4138:ASP:O	1:E:4142:ASN:ND2	2.24	0.70
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.55	0.70
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.57	0.70
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.25	0.70
1:A:2326:CYS:HA	1:A:2329:GLU:HG2	1.74	0.69
1:G:548:VAL:HG21	1:G:582:HIS:HB3	1.73	0.69
1:C:2326:CYS:HA	1:C:2329:GLU:HG2	1.74	0.69
1:A:1102:VAL:HG22	1:A:1192:CYS:HA	1.75	0.69
1:E:2095:GLN:NE2	1:E:2127:GLN:O	2.25	0.69
1:C:1141:ARG:HH12	1:C:1169:LEU:HD11	1.57	0.69
1:E:4033:GLY:HA2	1:E:4189:ARG:HH12	1.56	0.69
1:A:548:VAL:HG21	1:A:582:HIS:HB3	1.73	0.69
1:C:1078:GLU:HG2	1:C:1080:SER:H	1.55	0.69
1:A:1783:VAL:CG1	2:B:55:VAL:HA	2.21	0.69
1:C:3966:THR:O	1:C:3970:GLN:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4154:VAL:HG22	1:C:4157:ASP:OD2	1.92	0.69
1:E:4786:ASP:OD2	1:E:4789:PHE:N	2.26	0.69
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.55	0.69
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.25	0.69
1:A:3756:LYS:NZ	1:A:4999:ASP:OD1	2.20	0.69
1:A:4003:LEU:HB2	1:A:4013:LEU:HD12	1.75	0.69
1:C:548:VAL:HG21	1:C:582:HIS:HB3	1.73	0.69
1:C:1102:VAL:HG22	1:C:1192:CYS:HA	1.75	0.69
1:E:1102:VAL:HG22	1:E:1192:CYS:HA	1.75	0.69
1:E:2326:CYS:HA	1:E:2329:GLU:HG2	1.74	0.69
1:E:2922:LYS:O	1:E:2925:GLU:HB2	1.93	0.69
1:G:3677:LEU:HB2	1:G:3698:LEU:HD12	1.75	0.69
1:C:4961:CYS:SG	1:C:4978:HIS:NE2	2.61	0.69
1:G:1102:VAL:HG22	1:G:1192:CYS:HA	1.75	0.69
1:A:4961:CYS:SG	1:A:4978:HIS:NE2	2.61	0.69
1:E:445:LEU:HD21	1:E:522:LEU:HD12	1.75	0.69
1:E:548:VAL:HG21	1:E:582:HIS:HB3	1.74	0.68
1:G:4923:PHE:O	1:G:4928:LEU:HG	1.94	0.68
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.08	0.68
1:G:4563:ARG:NH1	1:G:4815:ASP:OD1	2.27	0.68
2:B:74:LEU:HB2	2:B:99:PHE:HB2	1.74	0.68
1:C:2293:GLN:HA	1:C:2296:GLU:HG2	1.74	0.68
1:C:3970:GLN:HE21	1:C:5004:THR:HA	1.58	0.68
1:C:4892:ARG:HG3	1:E:4921:PHE:CE1	2.28	0.68
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	1.75	0.68
1:E:2460:LEU:HD12	1:G:178:ARG:NH1	2.08	0.68
1:G:289:ARG:HD2	1:G:303:ASP:HA	1.75	0.68
1:G:674:PHE:HB3	2:H:40:ARG:HH12	1.58	0.68
1:G:2178:MET:O	1:G:2182:ILE:HG12	1.91	0.68
1:G:2326:CYS:HA	1:G:2329:GLU:HG2	1.74	0.68
1:C:674:PHE:HZ	2:D:71:ARG:NE	1.92	0.68
1:C:4148:THR:O	1:C:4151:SER:OG	2.11	0.68
1:E:3970:GLN:HE21	1:E:5004:THR:HA	1.57	0.68
1:G:265:LEU:HD12	1:G:279:PRO:HB2	1.75	0.68
1:G:4867:GLU:O	1:G:4869:GLU:N	2.27	0.68
1:G:4986:ALA:O	1:G:4989:MET:HG2	1.93	0.68
1:G:4207:MET:HG2	1:G:4208:PRO:HD3	1.76	0.68
1:A:4154:VAL:HG22	1:A:4157:ASP:OD2	1.92	0.68
1:E:289:ARG:HD2	1:E:303:ASP:HA	1.76	0.68
1:E:674:PHE:HZ	2:F:71:ARG:NE	1.90	0.68
1:E:2293:GLN:HA	1:E:2296:GLU:HG2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4154:VAL:HG22	1:E:4157:ASP:OD2	1.92	0.68
1:A:4148:THR:O	1:A:4151:SER:OG	2.12	0.68
1:A:4727:LYS:HZ1	1:A:4728:HIS:CE1	2.11	0.68
1:C:4003:LEU:HB2	1:C:4013:LEU:HD12	1.76	0.68
1:C:4230:LYS:NZ	1:C:4960:ILE:O	2.27	0.68
1:C:4786:ASP:OD2	1:C:4789:PHE:N	2.26	0.68
2:F:74:LEU:HB2	2:F:99:PHE:HB2	1.75	0.68
1:A:674:PHE:HZ	2:B:71:ARG:NE	1.91	0.68
1:A:4786:ASP:OD2	1:A:4789:PHE:N	2.26	0.68
1:C:4655:PHE:O	1:C:4658:ILE:HG13	1.94	0.68
2:D:74:LEU:HB2	2:D:99:PHE:HB2	1.75	0.68
1:A:2059:LEU:HB3	1:A:2062:ARG:NH1	2.09	0.68
1:A:4921:PHE:CE1	1:G:4892:ARG:HG3	2.29	0.68
1:C:702:TRP:CD1	2:D:34:LYS:NZ	2.58	0.68
1:G:1931:LEU:O	1:G:1936:LYS:NZ	2.21	0.68
1:A:168:ASP:OD1	1:A:201:ASN:ND2	2.27	0.67
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.27	0.67
1:A:4867:GLU:O	1:A:4869:GLU:N	2.27	0.67
1:C:289:ARG:HD2	1:C:303:ASP:HA	1.75	0.67
1:E:1708:ARG:HD2	1:E:1837:GLN:HE22	1.59	0.67
1:G:4876:CYS:O	1:G:4881:THR:OG1	2.09	0.67
1:C:4036:VAL:O	1:C:4038:GLY:N	2.27	0.67
1:E:2059:LEU:HB3	1:E:2062:ARG:NH1	2.09	0.67
1:G:2151:ASP:OD1	1:G:2188:ASN:ND2	2.27	0.67
1:A:4230:LYS:NZ	1:A:4960:ILE:O	2.27	0.67
1:E:106:ALA:HB1	1:E:147:TRP:HB3	1.77	0.67
1:E:2151:ASP:OD1	1:E:2188:ASN:ND2	2.27	0.67
1:E:4148:THR:O	1:E:4151:SER:OG	2.11	0.67
1:A:4655:PHE:O	1:A:4658:ILE:HG13	1.95	0.67
1:C:737:LEU:HD11	2:D:7:ILE:HG22	1.74	0.67
1:C:1708:ARG:HD2	1:C:1837:GLN:HE22	1.59	0.67
1:E:4036:VAL:O	1:E:4038:GLY:N	2.27	0.67
1:E:4230:LYS:NZ	1:E:4960:ILE:O	2.27	0.67
1:E:4581:LYS:HD2	1:G:4856:PHE:HZ	1.59	0.67
1:E:4655:PHE:O	1:E:4658:ILE:HG13	1.94	0.67
1:G:3780:LEU:HD11	1:G:3820:LEU:HD21	1.76	0.67
1:C:106:ALA:HB1	1:C:147:TRP:HB3	1.77	0.67
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.27	0.67
1:E:265:LEU:HD12	1:E:279:PRO:HB2	1.77	0.67
1:E:975:VAL:HG21	1:E:1044:ARG:HB3	1.75	0.67
1:A:975:VAL:HG21	1:A:1044:ARG:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4036:VAL:O	1:A:4038:GLY:N	2.27	0.67
1:C:2460:LEU:HD12	1:E:178:ARG:NH1	2.10	0.67
1:E:544:LEU:HD21	1:E:578:ILE:HG13	1.76	0.67
1:E:579:GLN:HB2	1:E:582:HIS:ND1	2.10	0.67
1:G:579:GLN:HB2	1:G:582:HIS:ND1	2.10	0.67
1:G:2059:LEU:HB3	1:G:2062:ARG:NH1	2.09	0.67
1:A:445:LEU:HD21	1:A:522:LEU:HD12	1.76	0.67
1:A:579:GLN:HB2	1:A:582:HIS:ND1	2.10	0.67
1:A:4884:LEU:HA	1:A:4887:MET:HB3	1.77	0.67
1:C:4884:LEU:HA	1:C:4887:MET:HB3	1.77	0.67
1:C:4892:ARG:NH1	1:E:4896:GLY:HA3	2.09	0.67
1:G:717:ASP:OD2	2:H:7:ILE:HA	1.95	0.67
1:A:289:ARG:HD2	1:A:303:ASP:HA	1.75	0.67
1:A:1100:MET:HB2	1:A:1126:GLY:HA3	1.76	0.67
1:C:1457:TYR:OH	1:C:1459:GLN:NE2	2.27	0.67
1:G:975:VAL:HG21	1:G:1044:ARG:HB3	1.76	0.67
1:G:1663:HIS:O	1:G:1666:THR:OG1	2.08	0.67
1:A:544:LEU:HD21	1:A:578:ILE:HG13	1.76	0.67
1:C:975:VAL:HG21	1:C:1044:ARG:HB3	1.76	0.67
2:D:48:PHE:HZ	2:D:63:VAL:HG11	1.59	0.67
1:E:865:PRO:HA	1:E:868:GLU:HB2	1.76	0.67
1:E:4003:LEU:HB2	1:E:4013:LEU:HD12	1.76	0.67
1:G:1703:LEU:HD12	1:G:1704:PRO:HD2	1.77	0.67
1:A:265:LEU:HD12	1:A:279:PRO:HB2	1.76	0.67
1:C:265:LEU:HD12	1:C:279:PRO:HB2	1.75	0.67
1:C:544:LEU:HD21	1:C:578:ILE:HG13	1.76	0.67
1:C:4867:GLU:O	1:C:4869:GLU:N	2.27	0.67
1:E:4867:GLU:O	1:E:4869:GLU:N	2.27	0.67
1:G:1544:PRO:HG2	1:G:1546:THR:HG23	1.77	0.67
1:G:2095:GLN:NE2	1:G:2127:GLN:O	2.28	0.67
1:A:263:GLU:O	1:A:281:ARG:N	2.28	0.66
1:C:445:LEU:HD21	1:C:522:LEU:HD12	1.75	0.66
1:C:2059:LEU:HB3	1:C:2062:ARG:NH1	2.09	0.66
1:E:645:ARG:O	1:E:824:GLU:N	2.28	0.66
1:G:106:ALA:HB1	1:G:147:TRP:HB3	1.77	0.66
1:G:865:PRO:HA	1:G:868:GLU:HB2	1.77	0.66
1:G:4003:LEU:HB2	1:G:4013:LEU:HD12	1.77	0.66
1:A:758:ARG:NH1	1:A:763:PRO:HD3	2.10	0.66
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	1.77	0.66
1:E:1856:ASP:H	1:E:1857:GLU:HB3	1.60	0.66
1:E:2430:ILE:HD13	1:E:2502:MET:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:263:GLU:O	1:G:281:ARG:N	2.28	0.66
1:G:445:LEU:HD21	1:G:522:LEU:HD12	1.75	0.66
1:A:2460:LEU:HD12	1:C:178:ARG:NH1	2.10	0.66
1:A:2770:LYS:HG3	1:A:2791:LEU:HD21	1.77	0.66
1:A:4210:VAL:O	1:A:4214:LYS:N	2.28	0.66
1:C:1856:ASP:H	1:C:1857:GLU:HB3	1.61	0.66
1:E:2770:LYS:HG3	1:E:2791:LEU:HD21	1.77	0.66
1:E:4210:VAL:O	1:E:4214:LYS:N	2.28	0.66
1:E:4892:ARG:HA	1:G:4921:PHE:CZ	2.29	0.66
1:A:1513:ASP:C	1:A:1514:LEU:HD12	2.16	0.66
1:C:540:PHE:HA	1:C:543:ASN:HD22	1.61	0.66
1:C:579:GLN:HB2	1:C:582:HIS:ND1	2.10	0.66
1:C:1100:MET:HB2	1:C:1126:GLY:HA3	1.76	0.66
1:A:540:PHE:HA	1:A:543:ASN:HD22	1.61	0.66
1:A:1703:LEU:HD12	1:A:1704:PRO:HD2	1.78	0.66
1:C:1078:GLU:HA	1:C:1237:TRP:CZ3	2.31	0.66
1:C:2770:LYS:HG3	1:C:2791:LEU:HD21	1.77	0.66
1:E:252:VAL:HG23	1:E:257:ARG:HE	1.61	0.66
1:E:1100:MET:HB2	1:E:1126:GLY:HA3	1.76	0.66
1:E:4971:THR:HG23	1:E:4974:GLY:HA3	1.77	0.66
2:F:48:PHE:HZ	2:F:63:VAL:HG11	1.59	0.66
1:G:4884:LEU:HA	1:G:4887:MET:HB3	1.78	0.66
1:C:591:ASP:OD2	1:C:1585:LYS:HG3	1.95	0.66
1:E:674:PHE:HB3	2:F:40:ARG:HH12	1.60	0.66
1:A:591:ASP:OD2	1:A:1585:LYS:HG3	1.95	0.66
1:C:1703:LEU:HD12	1:C:1704:PRO:HD2	1.77	0.66
1:C:2430:ILE:HD13	1:C:2502:MET:HG2	1.78	0.66
1:E:3934:TYR:HB2	1:E:3995:VAL:HG13	1.78	0.66
1:E:168:ASP:OD1	1:E:201:ASN:ND2	2.27	0.66
1:G:168:ASP:OD1	1:G:201:ASN:ND2	2.28	0.66
1:G:591:ASP:OD2	1:G:1585:LYS:HG3	1.95	0.66
1:G:1708:ARG:HD2	1:G:1837:GLN:HE22	1.60	0.66
1:A:865:PRO:HA	1:A:868:GLU:HB2	1.78	0.66
1:C:252:VAL:HG23	1:C:257:ARG:HE	1.61	0.66
1:C:263:GLU:O	1:C:281:ARG:N	2.28	0.66
1:E:4933:GLN:HG2	1:G:4926:VAL:HG13	1.76	0.66
1:G:1100:MET:HB2	1:G:1126:GLY:HA3	1.76	0.66
1:A:1544:PRO:HG2	1:A:1546:THR:HG23	1.78	0.65
1:A:1856:ASP:H	1:A:1857:GLU:HB3	1.61	0.65
1:C:628:GLY:O	1:C:630:GLU:N	2.27	0.65
1:C:758:ARG:NH1	1:C:763:PRO:HD3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1544:PRO:HG2	1:C:1546:THR:HG23	1.78	0.65
1:C:2862:LEU:HD21	1:C:2929:PHE:HB2	1.78	0.65
1:E:1703:LEU:HD12	1:E:1704:PRO:HD2	1.77	0.65
1:G:4154:VAL:O	1:G:4154:VAL:HG13	1.96	0.65
1:A:3934:TYR:HB2	1:A:3995:VAL:HG13	1.78	0.65
1:A:4839:MET:SD	1:G:4822:THR:HG23	2.35	0.65
1:C:2922:LYS:HA	1:C:2925:GLU:HG2	1.78	0.65
1:C:4727:LYS:HZ1	1:C:4728:HIS:CE1	2.13	0.65
1:G:252:VAL:HG23	1:G:257:ARG:HE	1.61	0.65
1:G:544:LEU:HD21	1:G:578:ILE:HG13	1.77	0.65
1:G:593:HIS:HB3	1:G:596:ASN:ND2	2.12	0.65
1:G:645:ARG:O	1:G:824:GLU:N	2.28	0.65
1:G:1856:ASP:H	1:G:1857:GLU:HB3	1.61	0.65
1:A:645:ARG:O	1:A:824:GLU:N	2.28	0.65
1:A:2430:ILE:HD13	1:A:2502:MET:HG2	1.78	0.65
1:E:758:ARG:NH1	1:E:763:PRO:HD3	2.11	0.65
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.07	0.65
1:G:628:GLY:O	1:G:630:GLU:N	2.27	0.65
1:G:2770:LYS:HG3	1:G:2791:LEU:HD21	1.77	0.65
1:A:1708:ARG:HD2	1:A:1837:GLN:HE22	1.60	0.65
1:A:2646:ASN:HA	1:A:2699:ALA:HB1	1.79	0.65
1:C:593:HIS:HB3	1:C:596:ASN:ND2	2.12	0.65
1:A:593:HIS:HB3	1:A:596:ASN:ND2	2.12	0.65
1:A:2862:LEU:HD21	1:A:2929:PHE:HB2	1.78	0.65
1:A:4839:MET:SD	1:G:4822:THR:O	2.54	0.65
1:C:3934:TYR:HB2	1:C:3995:VAL:HG13	1.78	0.65
1:E:591:ASP:OD2	1:E:1585:LYS:HG3	1.95	0.65
1:E:1078:GLU:HA	1:E:1237:TRP:CZ3	2.31	0.65
1:G:2293:GLN:HA	1:G:2296:GLU:HG2	1.77	0.65
1:A:178:ARG:NH1	1:G:2460:LEU:HD12	2.12	0.65
1:A:628:GLY:O	1:A:630:GLU:N	2.27	0.65
1:A:3969:ILE:HG12	1:A:3980:LEU:HD11	1.79	0.65
2:B:48:PHE:HZ	2:B:63:VAL:HG11	1.59	0.65
1:E:18:ASP:HB3	1:E:69:LEU:HD12	1.78	0.65
1:G:3966:THR:O	1:G:3970:GLN:N	2.29	0.65
1:A:451:TYR:O	1:A:474:ARG:NH1	2.30	0.65
1:A:1078:GLU:HA	1:A:1237:TRP:CZ3	2.32	0.65
1:E:540:PHE:HA	1:E:543:ASN:HD22	1.61	0.65
1:G:669:ASP:OD2	1:G:790:ARG:HB2	1.96	0.65
1:G:2430:ILE:HD13	1:G:2502:MET:HG2	1.79	0.65
1:C:3969:ILE:HG12	1:C:3980:LEU:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1141:ARG:HH12	1:E:1169:LEU:HD11	1.59	0.65
1:E:2862:LEU:HD21	1:E:2929:PHE:HB2	1.79	0.65
1:G:4786:ASP:OD2	1:G:4789:PHE:N	2.29	0.65
1:A:4839:MET:CE	1:G:4826:ILE:HG13	2.27	0.65
1:E:467:LYS:O	1:E:470:SER:OG	2.12	0.65
1:G:540:PHE:HA	1:G:543:ASN:HD22	1.61	0.65
1:G:4107:GLU:HA	1:G:4110:PHE:HB3	1.78	0.65
1:E:669:ASP:OD2	1:E:790:ARG:HB2	1.97	0.65
1:A:669:ASP:OD2	1:A:790:ARG:HB2	1.97	0.64
1:A:4688:ILE:HD12	1:A:4737:ILE:HD12	1.79	0.64
1:C:865:PRO:HA	1:C:868:GLU:HB2	1.77	0.64
1:E:1544:PRO:HG2	1:E:1546:THR:HG23	1.78	0.64
1:E:4884:LEU:HA	1:E:4887:MET:HB3	1.80	0.64
1:G:451:TYR:O	1:G:474:ARG:NH1	2.30	0.64
1:E:263:GLU:O	1:E:281:ARG:N	2.28	0.64
1:E:593:HIS:HB3	1:E:596:ASN:ND2	2.12	0.64
1:A:106:ALA:HB1	1:A:147:TRP:HB3	1.79	0.64
1:A:3914:ASN:HB3	1:A:3917:ILE:HD12	1.79	0.64
1:C:4688:ILE:HD12	1:C:4737:ILE:HD12	1.79	0.64
1:E:451:TYR:O	1:E:474:ARG:NH1	2.31	0.64
1:E:628:GLY:O	1:E:630:GLU:N	2.27	0.64
1:G:4643:LEU:HA	1:G:4646:LEU:HB2	1.80	0.64
1:A:131:LEU:HB3	1:G:2460:LEU:HD21	1.80	0.64
1:A:1115:LEU:HD21	1:A:1123:VAL:HG21	1.80	0.64
1:A:2922:LYS:HA	1:A:2925:GLU:HG2	1.77	0.64
1:C:2646:ASN:HA	1:C:2699:ALA:HB1	1.78	0.64
1:E:3969:ILE:HG12	1:E:3980:LEU:HD11	1.80	0.64
1:G:18:ASP:HB3	1:G:69:LEU:HD12	1.79	0.64
1:G:1436:SER:HA	1:G:1515:VAL:O	1.98	0.64
1:A:674:PHE:HB3	2:B:40:ARG:HH12	1.62	0.64
1:A:4027:LEU:O	1:A:4031:LEU:HD13	1.98	0.64
1:C:168:ASP:OD1	1:C:201:ASN:ND2	2.28	0.64
1:C:669:ASP:OD2	1:C:790:ARG:HB2	1.97	0.64
1:C:1293:LEU:HD23	1:C:1584:ARG:HG2	1.80	0.64
1:E:638:ILE:HG22	1:E:639:ASN:H	1.62	0.64
1:E:4688:ILE:HD12	1:E:4737:ILE:HD12	1.79	0.64
1:G:3914:ASN:HB3	1:G:3917:ILE:HD12	1.78	0.64
1:A:116:MET:HG2	1:A:139:GLU:HG3	1.80	0.64
1:C:3914:ASN:HB3	1:C:3917:ILE:HD12	1.79	0.64
1:G:467:LYS:O	1:G:470:SER:OG	2.12	0.64
1:G:638:ILE:HG22	1:G:639:ASN:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.80	0.64
1:A:252:VAL:HG23	1:A:257:ARG:HE	1.61	0.64
1:C:2453:ILE:O	1:C:2456:ILE:HG22	1.98	0.64
1:E:4823:LEU:HA	1:E:4826:ILE:HD12	1.79	0.64
1:G:1078:GLU:HB3	1:G:1081:TYR:CD2	2.33	0.64
1:A:4892:ARG:HG3	1:C:4921:PHE:CE1	2.33	0.64
1:C:1115:LEU:HD21	1:C:1123:VAL:HG21	1.80	0.64
1:E:1078:GLU:HB3	1:E:1081:TYR:CD2	2.33	0.64
1:E:2453:ILE:O	1:E:2456:ILE:HG22	1.98	0.64
1:G:116:MET:HG2	1:G:139:GLU:HG3	1.80	0.64
1:G:758:ARG:NH1	1:G:763:PRO:HD3	2.13	0.64
1:G:4933:GLN:O	1:G:4937:ILE:HG12	1.98	0.64
1:A:674:PHE:CD1	2:B:40:ARG:NH1	2.64	0.64
1:C:451:TYR:O	1:C:474:ARG:NH1	2.31	0.64
1:C:1143:TRP:HB3	1:C:1164:LEU:HD11	1.80	0.64
1:A:2922:LYS:C	1:A:2925:GLU:HB2	2.18	0.64
1:A:4035:VAL:HG23	1:A:4036:VAL:H	1.63	0.64
1:C:116:MET:HG2	1:C:139:GLU:HG3	1.80	0.64
1:A:1078:GLU:HB3	1:A:1081:TYR:CD2	2.33	0.63
1:C:4210:VAL:O	1:C:4214:LYS:N	2.28	0.63
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.80	0.63
1:E:1115:LEU:HD21	1:E:1123:VAL:HG21	1.80	0.63
1:E:1293:LEU:HD23	1:E:1584:ARG:HG2	1.80	0.63
1:E:2460:LEU:HD21	1:G:131:LEU:HB3	1.80	0.63
1:E:3702:VAL:HG21	1:E:3773:ARG:HB3	1.80	0.63
1:G:737:LEU:HD13	2:H:8:SER:HB3	1.80	0.63
1:G:2453:ILE:O	1:G:2456:ILE:HG22	1.98	0.63
1:G:2646:ASN:HA	1:G:2699:ALA:HB1	1.81	0.63
1:E:3889:GLN:NE2	1:E:3963:ASN:OD1	2.32	0.63
1:G:3783:ILE:O	1:G:3831:SER:OG	2.11	0.63
1:G:3813:GLN:OE1	1:G:3896:ASN:ND2	2.31	0.63
1:A:2453:ILE:O	1:A:2456:ILE:HG22	1.98	0.63
1:A:3878:ASP:O	1:A:3881:THR:OG1	2.14	0.63
1:A:4986:ALA:O	1:A:4989:MET:HG2	1.99	0.63
1:C:18:ASP:HB3	1:C:69:LEU:HD12	1.79	0.63
1:C:212:GLY:HA2	1:C:341:TYR:H	1.63	0.63
1:C:638:ILE:HG22	1:C:639:ASN:H	1.62	0.63
1:C:4035:VAL:HG23	1:C:4036:VAL:H	1.63	0.63
1:E:1143:TRP:HB3	1:E:1164:LEU:HD11	1.80	0.63
1:E:3892:CYS:HB3	1:E:3900:GLN:HE21	1.63	0.63
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4986:ALA:O	1:E:4989:MET:HG2	1.99	0.63
1:G:1104:TRP:HB3	1:G:1188:PHE:HB3	1.81	0.63
1:G:1143:TRP:HB3	1:G:1164:LEU:HD11	1.79	0.63
1:C:263:GLU:HB2	1:C:281:ARG:HB2	1.81	0.63
1:C:646:PRO:HD2	1:C:779:PRO:HG2	1.79	0.63
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.81	0.63
1:C:674:PHE:CD1	2:D:40:ARG:NH1	2.62	0.63
1:C:4027:LEU:O	1:C:4031:LEU:HD13	1.97	0.63
1:E:1104:TRP:HB3	1:E:1188:PHE:HB3	1.81	0.63
1:G:4715:TYR:CE2	1:G:4717:ASP:HB2	2.34	0.63
1:G:4983:HIS:C	1:G:4985:LEU:H	2.01	0.63
1:A:646:PRO:HD2	1:A:779:PRO:HG2	1.80	0.63
1:C:603:LEU:HD23	1:C:606:LEU:HD12	1.80	0.63
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.80	0.63
1:C:3963:ASN:O	1:C:3966:THR:OG1	2.14	0.63
1:C:4889:VAL:O	1:C:4893:ALA:N	2.22	0.63
1:E:603:LEU:HD23	1:E:606:LEU:HD12	1.81	0.63
1:E:2646:ASN:HA	1:E:2699:ALA:HB1	1.80	0.63
1:E:4656:LEU:O	1:E:4659:ILE:HG22	1.97	0.63
1:G:2862:LEU:HD21	1:G:2929:PHE:HB2	1.80	0.63
1:E:3914:ASN:HB3	1:E:3917:ILE:HD12	1.79	0.63
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.80	0.63
1:G:1115:LEU:HD21	1:G:1123:VAL:HG21	1.80	0.63
1:G:4881:THR:HA	1:G:4884:LEU:HG	1.81	0.63
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.80	0.63
1:C:224:HIS:HB2	1:C:247:TYR:CD1	2.34	0.63
1:E:4035:VAL:HG23	1:E:4036:VAL:H	1.63	0.63
1:A:170:ILE:HG12	1:A:197:GLN:HB3	1.79	0.63
1:A:1729:SER:HB2	1:A:2163:ARG:NH1	2.14	0.63
1:A:4656:LEU:O	1:A:4659:ILE:HG22	1.98	0.63
1:C:4656:LEU:O	1:C:4659:ILE:HG22	1.98	0.63
1:E:212:GLY:HA2	1:E:341:TYR:H	1.64	0.63
1:E:263:GLU:HB2	1:E:281:ARG:HB2	1.81	0.63
1:G:170:ILE:HG12	1:G:197:GLN:HB3	1.81	0.63
1:G:603:LEU:HD23	1:G:606:LEU:HD12	1.81	0.63
1:G:674:PHE:CB	2:H:40:ARG:HH12	2.12	0.63
1:G:1729:SER:HB2	1:G:2163:ARG:NH1	2.14	0.63
1:A:3889:GLN:NE2	1:A:3963:ASN:OD1	2.32	0.62
1:A:4868:ASP:OD1	1:A:4869:GLU:N	2.32	0.62
1:A:4889:VAL:O	1:A:4893:ALA:N	2.22	0.62
1:A:4931:ILE:HD11	1:G:4940:PHE:CD1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:GLU:HB3	1:C:1081:TYR:CD2	2.33	0.62
1:C:4124:ASN:OD1	1:C:4125:PHE:N	2.32	0.62
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.31	0.62
1:A:224:HIS:HB2	1:A:247:TYR:CD1	2.34	0.62
1:A:1835:GLU:CG	1:A:1932:PRO:HG2	2.27	0.62
1:C:1104:TRP:HB3	1:C:1188:PHE:HB3	1.81	0.62
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.81	0.62
1:E:3962:PHE:O	1:E:3966:THR:HG23	1.99	0.62
1:G:2071:ARG:NH2	1:G:3666:ASP:OD2	2.32	0.62
1:G:3926:LEU:O	1:G:3930:ILE:HG12	1.99	0.62
1:G:4956:THR:O	1:G:4965:SER:N	2.32	0.62
1:A:603:LEU:HD23	1:A:606:LEU:HD12	1.81	0.62
1:A:1143:TRP:HB3	1:A:1164:LEU:HD11	1.79	0.62
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.81	0.62
1:C:2460:LEU:HD21	1:E:131:LEU:HB3	1.80	0.62
1:E:1436:SER:HA	1:E:1515:VAL:O	1.99	0.62
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.80	0.62
1:E:4027:LEU:O	1:E:4031:LEU:HD13	1.98	0.62
1:E:4868:ASP:OD1	1:E:4869:GLU:N	2.32	0.62
1:G:1078:GLU:HA	1:G:1237:TRP:CZ3	2.32	0.62
1:A:669:ASP:HB3	1:A:788:LYS:HZ1	1.64	0.62
1:A:1104:TRP:HB3	1:A:1188:PHE:HB3	1.81	0.62
1:C:3702:VAL:HG21	1:C:3773:ARG:HB3	1.81	0.62
1:C:3962:PHE:O	1:C:3966:THR:HG23	1.99	0.62
1:C:4986:ALA:O	1:C:4989:MET:HG2	1.99	0.62
1:E:116:MET:HG2	1:E:139:GLU:HG3	1.80	0.62
1:G:224:HIS:HB2	1:G:247:TYR:CD1	2.34	0.62
1:G:3884:LEU:O	1:G:3887:PHE:HB3	1.98	0.62
1:G:3900:GLN:NE2	1:G:3967:GLU:O	2.31	0.62
1:G:4160:LEU:O	1:G:4164:LEU:N	2.32	0.62
1:G:4853:VAL:O	1:G:4857:ASN:ND2	2.31	0.62
1:A:263:GLU:HB2	1:A:281:ARG:HB2	1.82	0.62
1:G:1853:ILE:O	1:G:1854:PHE:HB2	1.99	0.62
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.82	0.62
1:C:2452:ARG:NH2	1:E:177:GLU:OE2	2.33	0.62
1:E:1729:SER:HB2	1:E:2163:ARG:NH1	2.14	0.62
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.81	0.62
1:E:1087:ARG:HB3	1:E:1223:PHE:HD1	1.64	0.62
1:E:2071:ARG:NH2	1:E:3666:ASP:OD2	2.33	0.62
1:G:212:GLY:HA2	1:G:341:TYR:H	1.64	0.62
1:G:1087:ARG:HB3	1:G:1223:PHE:HD1	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4901:ILE:HD13	1:G:4913:ARG:HH21	1.65	0.62
1:A:2071:ARG:NH2	1:A:3666:ASP:OD2	2.33	0.62
1:E:170:ILE:HG12	1:E:197:GLN:HB3	1.81	0.62
1:E:224:HIS:HB2	1:E:247:TYR:CD1	2.34	0.62
1:E:646:PRO:HD2	1:E:779:PRO:HG2	1.80	0.62
1:G:646:PRO:HD2	1:G:779:PRO:HG2	1.80	0.62
1:G:3892:CYS:HB3	1:G:3900:GLN:HE21	1.65	0.62
1:A:554:LEU:HD13	1:A:1596:GLU:HB3	1.82	0.62
1:A:1293:LEU:HD23	1:A:1584:ARG:HG2	1.81	0.62
1:A:3962:PHE:O	1:A:3966:THR:HG23	1.99	0.62
1:C:554:LEU:HD13	1:C:1596:GLU:HB3	1.82	0.62
1:C:645:ARG:O	1:C:824:GLU:N	2.28	0.62
1:E:554:LEU:HD13	1:E:1596:GLU:HB3	1.82	0.62
1:E:1827:ARG:HG3	1:E:1827:ARG:O	2.00	0.62
1:E:1853:ILE:O	1:E:1854:PHE:HB2	1.99	0.62
1:G:263:GLU:HB2	1:G:281:ARG:HB2	1.81	0.62
1:G:1293:LEU:HD23	1:G:1584:ARG:HG2	1.81	0.62
1:C:1158:ASN:HB3	1:C:1182:ILE:H	1.65	0.62
1:C:1853:ILE:O	1:C:1854:PHE:HB2	1.99	0.62
1:C:2460:LEU:CD1	1:E:178:ARG:NH1	2.62	0.62
1:A:212:GLY:HA2	1:A:341:TYR:H	1.63	0.61
1:A:702:TRP:CD1	2:B:34:LYS:NZ	2.58	0.61
1:A:892:THR:H	1:A:902:ARG:HA	1.65	0.61
1:G:478:PHE:CZ	1:G:483:MET:HB2	2.35	0.61
1:G:4688:ILE:HD12	1:G:4737:ILE:HD12	1.82	0.61
2:H:27:THR:HA	2:H:38:SER:HA	1.82	0.61
1:A:168:ASP:HB3	1:A:199:LEU:HD22	1.82	0.61
1:A:2930:LEU:HB3	1:A:2937:VAL:HG21	1.82	0.61
1:A:4581:LYS:HD2	1:C:4856:PHE:HZ	1.65	0.61
1:E:3965:LEU:HD23	1:E:3968:TYR:HD2	1.65	0.61
1:G:264:PRO:HG3	1:G:274:LEU:HD11	1.82	0.61
1:G:554:LEU:HD13	1:G:1596:GLU:HB3	1.82	0.61
1:A:3702:VAL:HG21	1:A:3773:ARG:HB3	1.81	0.61
1:C:674:PHE:HB3	2:D:40:ARG:HH12	1.64	0.61
1:C:1827:ARG:O	1:C:1827:ARG:HG3	2.01	0.61
1:C:4023:MET:O	1:C:4026:MET:HG2	2.00	0.61
1:E:748:LEU:HD11	1:E:753:PRO:HA	1.82	0.61
1:E:2460:LEU:CD1	1:G:178:ARG:NH1	2.63	0.61
1:A:264:PRO:HG3	1:A:274:LEU:HD11	1.82	0.61
1:C:1729:SER:HB2	1:C:2163:ARG:NH1	2.15	0.61
1:E:478:PHE:CZ	1:E:483:MET:HB2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2930:LEU:HB3	1:E:2937:VAL:HG21	1.80	0.61
1:A:4124:ASN:OD1	1:A:4125:PHE:N	2.32	0.61
1:A:4856:PHE:HZ	1:G:4581:LYS:HD2	1.64	0.61
1:C:2237:CYS:HB2	1:C:2275:VAL:HG22	1.83	0.61
1:C:3892:CYS:HB3	1:C:3900:GLN:HE21	1.64	0.61
1:E:264:PRO:HG3	1:E:274:LEU:HD11	1.83	0.61
1:E:2237:CYS:HB2	1:E:2275:VAL:HG22	1.82	0.61
1:G:1158:ASN:HB3	1:G:1182:ILE:H	1.65	0.61
1:A:3892:CYS:HB3	1:A:3900:GLN:HE21	1.64	0.61
1:C:467:LYS:O	1:C:470:SER:OG	2.13	0.61
1:C:1835:GLU:CG	1:C:1932:PRO:HG2	2.26	0.61
1:C:2071:ARG:NH2	1:C:3666:ASP:OD2	2.33	0.61
1:G:1827:ARG:HG3	1:G:1827:ARG:O	2.01	0.61
1:G:4555:LEU:HD22	1:G:4660:GLY:HA3	1.82	0.61
1:G:4847:VAL:HG21	1:G:4928:LEU:HD11	1.83	0.61
1:G:4868:ASP:OD1	1:G:4869:GLU:N	2.32	0.61
1:A:1815:LEU:HD11	1:A:1845:VAL:HG21	1.83	0.61
1:A:3965:LEU:HD23	1:A:3968:TYR:HD2	1.65	0.61
1:A:4023:MET:O	1:A:4026:MET:HG2	2.00	0.61
1:C:478:PHE:CZ	1:C:483:MET:HB2	2.35	0.61
1:C:892:THR:H	1:C:902:ARG:HA	1.65	0.61
1:E:1835:GLU:CG	1:E:1932:PRO:HG2	2.26	0.61
1:E:4063:ASP:HA	1:E:4170:ILE:HG12	1.83	0.61
1:G:214:VAL:HA	1:G:341:TYR:CE1	2.36	0.61
1:G:4190:ILE:HD11	1:G:5026:ASP:HB2	1.81	0.61
1:A:18:ASP:HB3	1:A:69:LEU:HD12	1.81	0.61
1:A:178:ARG:NH1	1:G:2460:LEU:CD1	2.64	0.61
1:A:1827:ARG:HG3	1:A:1827:ARG:O	2.01	0.61
1:C:264:PRO:HG3	1:C:274:LEU:HD11	1.83	0.61
1:C:3889:GLN:NE2	1:C:3963:ASN:OD1	2.32	0.61
1:C:3965:LEU:HD23	1:C:3968:TYR:HD2	1.65	0.61
1:C:4172:GLU:HG2	1:C:4175:ARG:NH1	2.15	0.61
1:E:892:THR:H	1:E:902:ARG:HA	1.65	0.61
1:E:1825:HIS:ND1	1:E:1825:HIS:O	2.34	0.61
1:G:748:LEU:HD11	1:G:753:PRO:HA	1.83	0.61
1:G:892:THR:H	1:G:902:ARG:HA	1.65	0.61
1:A:214:VAL:HA	1:A:341:TYR:CE1	2.36	0.61
1:A:4031:LEU:HD11	1:A:4044:MET:SD	2.41	0.61
1:G:1835:GLU:CG	1:G:1932:PRO:HG2	2.26	0.61
1:G:4642:ALA:O	1:G:4646:LEU:N	2.32	0.61
2:H:48:PHE:HZ	2:H:63:VAL:HG11	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:PHE:CZ	1:A:483:MET:HB2	2.36	0.61
1:A:1856:ASP:H	1:A:1858:ASP:H	1.49	0.61
1:A:2460:LEU:HD21	1:C:131:LEU:HB3	1.82	0.61
1:A:4063:ASP:HA	1:A:4170:ILE:HG12	1.83	0.61
1:C:840:VAL:HG12	1:C:1199:VAL:HG13	1.83	0.61
1:C:1815:LEU:HD11	1:C:1845:VAL:HG21	1.83	0.61
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	2.01	0.61
1:G:1815:LEU:HD11	1:G:1845:VAL:HG21	1.82	0.61
1:C:1825:HIS:ND1	1:C:1825:HIS:O	2.33	0.60
1:C:1856:ASP:H	1:C:1858:ASP:H	1.49	0.60
1:C:4063:ASP:HA	1:C:4170:ILE:HG12	1.83	0.60
1:E:1158:ASN:HB3	1:E:1182:ILE:H	1.65	0.60
1:E:4023:MET:O	1:E:4026:MET:HG2	2.00	0.60
1:G:887:ILE:HG21	1:G:962:SER:HB2	1.83	0.60
1:C:170:ILE:HG12	1:C:197:GLN:HB3	1.81	0.60
1:C:2930:LEU:HB3	1:C:2937:VAL:HG21	1.81	0.60
1:E:533:ASN:OD1	1:E:534:ARG:N	2.34	0.60
1:E:2452:ARG:NH2	1:G:177:GLU:OE2	2.34	0.60
1:G:533:ASN:OD1	1:G:534:ARG:N	2.34	0.60
1:G:3968:TYR:HB2	1:G:3969:ILE:HD12	1.83	0.60
1:A:1853:ILE:O	1:A:1854:PHE:HB2	1.99	0.60
1:C:4031:LEU:HD11	1:C:4044:MET:SD	2.41	0.60
1:G:1825:HIS:ND1	1:G:1825:HIS:O	2.34	0.60
1:G:1856:ASP:H	1:G:1858:ASP:H	1.49	0.60
1:A:1854:PHE:HB3	1:A:1855:GLY:HA2	1.84	0.60
1:A:2237:CYS:HB2	1:A:2275:VAL:HG22	1.82	0.60
1:C:748:LEU:HD11	1:C:753:PRO:HA	1.82	0.60
1:E:214:VAL:HA	1:E:341:TYR:CE1	2.36	0.60
1:E:299:LEU:HB2	1:E:378:LEU:HG	1.84	0.60
1:E:3771:HIS:HD2	1:E:3812:VAL:HG22	1.65	0.60
1:G:2204:HIS:HB3	1:G:2239:PHE:CE2	2.37	0.60
1:G:4030:LEU:HD23	1:G:4044:MET:HE3	1.83	0.60
1:A:1205:GLY:HA2	1:A:1225:PRO:HB2	1.83	0.60
1:A:3771:HIS:HD2	1:A:3812:VAL:HG22	1.64	0.60
1:A:4715:TYR:CE2	1:A:4717:ASP:HB2	2.36	0.60
1:C:1854:PHE:HB3	1:C:1855:GLY:HA2	1.83	0.60
1:E:37:LEU:HD11	1:E:47:CYS:SG	2.42	0.60
1:E:5006:GLN:HA	1:E:5009:TYR:CE2	2.37	0.60
1:G:1854:PHE:HB3	1:G:1855:GLY:HA2	1.84	0.60
1:G:4836:GLN:O	1:G:4839:MET:HG2	2.01	0.60
1:A:748:LEU:HD11	1:A:753:PRO:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:748:LEU:HD13	1:A:755:ILE:HG13	1.84	0.60
1:A:1825:HIS:ND1	1:A:1825:HIS:O	2.34	0.60
1:A:2204:HIS:HB3	1:A:2239:PHE:CE2	2.37	0.60
1:C:168:ASP:HB3	1:C:199:LEU:HD22	1.83	0.60
1:C:299:LEU:HB2	1:C:378:LEU:HG	1.83	0.60
1:E:168:ASP:HB3	1:E:199:LEU:HD22	1.83	0.60
1:E:674:PHE:CD1	2:F:40:ARG:NH1	2.65	0.60
1:E:840:VAL:HG12	1:E:1199:VAL:HG13	1.83	0.60
1:E:2204:HIS:HB3	1:E:2239:PHE:CE2	2.37	0.60
1:E:2460:LEU:HD21	1:G:131:LEU:CB	2.31	0.60
1:E:4031:LEU:HD11	1:E:4044:MET:SD	2.41	0.60
1:G:4898:GLY:HA2	1:G:4901:ILE:HG22	1.84	0.60
1:A:299:LEU:HB2	1:A:378:LEU:HG	1.83	0.60
1:C:533:ASN:OD1	1:C:534:ARG:N	2.34	0.60
1:C:4715:TYR:CE2	1:C:4717:ASP:HB2	2.36	0.60
1:C:4868:ASP:OD1	1:C:4869:GLU:N	2.32	0.60
1:E:812:HIS:HA	1:E:821:LEU:HD13	1.84	0.60
1:E:2924:GLN:O	1:E:2928:LYS:HB2	2.02	0.60
1:E:4715:TYR:CE2	1:E:4717:ASP:HB2	2.36	0.60
1:C:748:LEU:HD13	1:C:755:ILE:HG13	1.84	0.60
1:C:2204:HIS:HB3	1:C:2239:PHE:CE2	2.37	0.60
1:G:669:ASP:HB3	1:G:788:LYS:NZ	2.16	0.60
1:A:467:LYS:O	1:A:470:SER:OG	2.13	0.60
1:A:533:ASN:OD1	1:A:534:ARG:N	2.34	0.60
1:A:1130:GLN:HE21	1:A:1132:TRP:HE1	1.50	0.60
1:A:2924:GLN:HB3	1:A:2928:LYS:HE2	1.83	0.60
1:A:3938:SER:HB2	1:A:4002:LYS:NZ	2.17	0.60
1:C:214:VAL:HA	1:C:341:TYR:CE1	2.36	0.60
1:C:5006:GLN:HA	1:C:5009:TYR:CE2	2.37	0.60
1:E:215:THR:HG22	1:E:273:HIS:HA	1.84	0.60
1:E:1815:LEU:HD11	1:E:1845:VAL:HG21	1.83	0.60
1:E:1856:ASP:H	1:E:1858:ASP:H	1.50	0.60
1:E:4689:THR:OG1	1:E:4690:GLU:OE1	2.20	0.60
1:G:37:LEU:HD11	1:G:47:CYS:SG	2.42	0.60
1:G:4948:GLU:O	1:G:4952:GLU:N	2.33	0.60
1:A:669:ASP:HB3	1:A:788:LYS:NZ	2.17	0.59
1:A:887:ILE:HG21	1:A:962:SER:HB2	1.84	0.59
1:A:1158:ASN:HB3	1:A:1182:ILE:H	1.65	0.59
1:C:37:LEU:HD11	1:C:47:CYS:SG	2.42	0.59
1:C:4689:THR:OG1	1:C:4690:GLU:OE1	2.20	0.59
1:C:4806:ASN:O	1:C:4809:PHE:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:669:ASP:HB3	1:E:788:LYS:NZ	2.17	0.59
1:A:1514:LEU:HD12	1:A:1514:LEU:N	2.17	0.59
1:C:3771:HIS:HD2	1:C:3812:VAL:HG22	1.65	0.59
1:E:700:GLU:HG3	1:E:707:VAL:HB	1.84	0.59
1:E:1854:PHE:HB3	1:E:1855:GLY:HA2	1.84	0.59
1:E:3959:LYS:HE3	1:E:4018:ASP:HB3	1.84	0.59
1:E:4192:ARG:NH1	1:E:5028:PHE:HB3	2.14	0.59
1:G:2237:CYS:HB2	1:G:2275:VAL:HG22	1.83	0.59
1:A:840:VAL:HG12	1:A:1199:VAL:HG13	1.83	0.59
1:A:1729:SER:O	1:A:1732:SER:OG	2.19	0.59
1:A:3959:LYS:HE3	1:A:4018:ASP:HB3	1.85	0.59
1:A:4896:GLY:HA3	1:G:4892:ARG:NH1	2.17	0.59
1:A:5009:TYR:O	1:A:5013:MET:HG2	2.03	0.59
1:C:1087:ARG:HB3	1:C:1223:PHE:HD1	1.65	0.59
1:E:276:TRP:HA	1:E:316:PHE:HB2	1.85	0.59
1:E:396:GLU:OE2	1:E:474:ARG:HG2	2.03	0.59
1:G:168:ASP:HB3	1:G:199:LEU:HD22	1.83	0.59
1:G:674:PHE:HD1	2:H:40:ARG:HH12	1.47	0.59
1:A:37:LEU:HD11	1:A:47:CYS:SG	2.41	0.59
1:A:80:GLU:OE2	1:G:3935:TRP:O	2.20	0.59
1:A:210:GLU:HB2	1:A:213:TYR:HD2	1.67	0.59
1:A:638:ILE:HG22	1:A:639:ASN:H	1.67	0.59
1:A:2460:LEU:CD1	1:C:178:ARG:NH1	2.65	0.59
1:A:3986:TRP:HZ2	1:A:4040:ILE:HG13	1.66	0.59
1:A:5006:GLN:HA	1:A:5009:TYR:CE2	2.37	0.59
1:C:812:HIS:HA	1:C:821:LEU:HD13	1.84	0.59
1:E:3938:SER:HB2	1:E:4002:LYS:NZ	2.17	0.59
1:E:4141:PHE:HE1	1:E:4178:LEU:HA	1.67	0.59
1:G:215:THR:HG22	1:G:273:HIS:HA	1.84	0.59
1:G:669:ASP:HB3	1:G:788:LYS:HZ1	1.68	0.59
1:G:700:GLU:HG3	1:G:707:VAL:HB	1.85	0.59
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	2.03	0.59
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.85	0.59
1:C:210:GLU:HB2	1:C:213:TYR:HD2	1.67	0.59
1:C:669:ASP:HB3	1:C:788:LYS:NZ	2.17	0.59
1:E:717:ASP:OD2	2:F:7:ILE:HA	2.02	0.59
1:E:4940:PHE:CE1	1:G:4931:ILE:HD11	2.38	0.59
1:G:35:LEU:HD11	1:G:49:LEU:HD13	1.84	0.59
1:G:840:VAL:HG12	1:G:1199:VAL:HG13	1.83	0.59
1:G:1806:ALA:O	1:G:1810:LYS:HG2	2.02	0.59
1:G:4573:ILE:O	1:G:4577:LEU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4979:THR:O	1:G:4984:ASN:N	2.30	0.59
1:C:396:GLU:OE2	1:C:474:ARG:HG2	2.03	0.59
1:C:3670:GLU:O	1:C:3674:ILE:HG12	2.03	0.59
1:E:2768:PHE:HA	1:E:2771:ILE:HD12	1.84	0.59
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.85	0.59
1:G:5009:TYR:O	1:G:5013:MET:HG2	2.01	0.59
1:A:3893:GLU:HA	1:A:3967:GLU:OE2	2.01	0.59
1:G:4919:THR:O	1:G:4923:PHE:HB2	2.01	0.59
1:A:3670:GLU:O	1:A:3674:ILE:HG12	2.03	0.59
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.38	0.59
1:A:4141:PHE:HE1	1:A:4178:LEU:HA	1.67	0.59
1:A:4806:ASN:O	1:A:4809:PHE:HB3	2.03	0.59
1:A:4901:ILE:HD13	1:A:4913:ARG:HH21	1.68	0.59
1:C:1130:GLN:HE21	1:C:1132:TRP:HE1	1.51	0.59
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.85	0.59
1:C:3893:GLU:HA	1:C:3967:GLU:OE2	2.01	0.59
1:C:3938:SER:HB2	1:C:4002:LYS:NZ	2.17	0.59
1:C:3986:TRP:HZ2	1:C:4040:ILE:HG13	1.67	0.59
1:E:35:LEU:HD11	1:E:49:LEU:HD13	1.85	0.59
1:C:700:GLU:HG3	1:C:707:VAL:HB	1.85	0.59
1:C:1105:ALA:HB1	1:C:1109:LEU:HD21	1.85	0.59
1:C:3839:CYS:HB2	1:C:3881:THR:HG22	1.85	0.59
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.38	0.59
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.38	0.59
1:E:3986:TRP:HZ2	1:E:4040:ILE:HG13	1.67	0.59
1:G:299:LEU:HB2	1:G:378:LEU:HG	1.83	0.59
1:G:2924:GLN:O	1:G:2928:LYS:HB2	2.03	0.59
1:G:4035:VAL:HG23	1:G:4036:VAL:H	1.67	0.59
1:G:4689:THR:OG1	1:G:4690:GLU:OE1	2.20	0.59
1:A:195:PHE:HE2	1:G:2358:ILE:HG21	1.67	0.59
1:A:696:PRO:HD2	1:A:829:TYR:HE2	1.67	0.59
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.03	0.59
1:A:2768:PHE:HA	1:A:2771:ILE:HD12	1.85	0.59
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.03	0.59
1:G:2288:LEU:O	1:G:3849:ARG:HD3	2.02	0.59
1:A:544:LEU:HD11	1:A:578:ILE:HB	1.85	0.58
1:A:2288:LEU:O	1:A:3849:ARG:HD3	2.03	0.58
1:A:3781:GLN:O	1:A:3784:SER:OG	2.19	0.58
1:C:215:THR:HG22	1:C:273:HIS:HA	1.85	0.58
1:C:696:PRO:HD2	1:C:829:TYR:HE2	1.67	0.58
1:C:2460:LEU:HD21	1:E:131:LEU:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4141:PHE:HE1	1:C:4178:LEU:HA	1.67	0.58
1:E:248:GLU:HG3	1:E:372:LEU:HD11	1.85	0.58
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.03	0.58
1:E:3839:CYS:HB2	1:E:3881:THR:HG22	1.85	0.58
1:G:248:GLU:HG3	1:G:372:LEU:HD11	1.85	0.58
1:G:396:GLU:OE2	1:G:474:ARG:HG2	2.03	0.58
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.03	0.58
1:G:4039:MET:HA	1:G:4042:ARG:HE	1.67	0.58
1:A:131:LEU:CB	1:G:2460:LEU:HD21	2.32	0.58
1:A:396:GLU:OE2	1:A:474:ARG:HG2	2.03	0.58
1:A:633:LEU:HD21	1:A:1639:LEU:HD13	1.83	0.58
1:A:812:HIS:HA	1:A:821:LEU:HD13	1.84	0.58
1:A:4190:ILE:HD11	1:A:5026:ASP:HB2	1.85	0.58
1:A:4689:THR:OG1	1:A:4690:GLU:OE1	2.20	0.58
1:C:633:LEU:HD21	1:C:1639:LEU:HD13	1.84	0.58
1:C:1205:GLY:HA2	1:C:1225:PRO:HB2	1.85	0.58
1:C:3959:LYS:HE3	1:C:4018:ASP:HB3	1.85	0.58
1:E:618:GLN:OE1	1:E:1675:ALA:HB2	2.03	0.58
1:G:702:TRP:HE1	2:H:34:LYS:HZ1	1.50	0.58
1:G:812:HIS:HA	1:G:821:LEU:HD13	1.84	0.58
1:G:2294:ASP:O	1:G:2298:VAL:HG23	2.03	0.58
1:G:4007:SER:O	1:G:4010:ILE:HG12	2.02	0.58
1:A:4192:ARG:NH1	1:A:5028:PHE:HB3	2.14	0.58
1:C:887:ILE:HG21	1:C:962:SER:HB2	1.84	0.58
1:C:2288:LEU:O	1:C:3849:ARG:HD3	2.02	0.58
1:C:3781:GLN:O	1:C:3784:SER:OG	2.19	0.58
1:E:3963:ASN:O	1:E:3966:THR:OG1	2.14	0.58
1:G:633:LEU:HD21	1:G:1639:LEU:HD13	1.84	0.58
1:G:1846:SER:O	1:G:1850:VAL:HG23	2.03	0.58
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.03	0.58
1:A:2452:ARG:NH2	1:C:177:GLU:OE2	2.36	0.58
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.03	0.58
1:C:3926:LEU:O	1:C:3930:ILE:HG12	2.04	0.58
1:C:4581:LYS:HD2	1:E:4856:PHE:HZ	1.66	0.58
1:C:5009:TYR:O	1:C:5013:MET:HG2	2.03	0.58
1:E:633:LEU:HD21	1:E:1639:LEU:HD13	1.84	0.58
1:E:1105:ALA:HB1	1:E:1109:LEU:HD21	1.86	0.58
1:E:1130:GLN:HE21	1:E:1132:TRP:HE1	1.51	0.58
1:G:3889:GLN:NE2	1:G:3963:ASN:OD1	2.31	0.58
1:G:4889:VAL:O	1:G:4893:ALA:N	2.30	0.58
1:A:215:THR:HG22	1:A:273:HIS:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:618:GLN:OE1	1:A:1675:ALA:HB2	2.03	0.58
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.04	0.58
1:A:2460:LEU:HD21	1:C:131:LEU:CB	2.33	0.58
1:E:748:LEU:HD13	1:E:755:ILE:HG13	1.84	0.58
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.84	0.58
1:E:2288:LEU:O	1:E:3849:ARG:HD3	2.02	0.58
1:G:544:LEU:HD11	1:G:578:ILE:HB	1.85	0.58
1:G:737:LEU:HD11	2:H:7:ILE:HG22	1.85	0.58
1:A:248:GLU:HG3	1:A:372:LEU:HD11	1.86	0.58
1:A:276:TRP:HA	1:A:316:PHE:HB2	1.85	0.58
1:A:1735:ILE:HD12	1:A:1771:LEU:HD12	1.86	0.58
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.85	0.58
1:A:3839:CYS:HB2	1:A:3881:THR:HG22	1.85	0.58
1:A:4770:SER:O	1:A:4772:ASP:N	2.33	0.58
1:C:544:LEU:HD11	1:C:578:ILE:HB	1.85	0.58
1:C:618:GLN:OE1	1:C:1675:ALA:HB2	2.03	0.58
1:E:1806:ALA:O	1:E:1810:LYS:HG2	2.03	0.58
1:E:3670:GLU:O	1:E:3674:ILE:HG12	2.03	0.58
1:G:276:TRP:HA	1:G:316:PHE:HB2	1.84	0.58
1:G:696:PRO:HD2	1:G:829:TYR:HE2	1.67	0.58
1:G:1735:ILE:HD12	1:G:1771:LEU:HD12	1.85	0.58
1:G:2344:GLU:OE2	1:G:2508:ARG:NH2	2.36	0.58
1:G:4910:GLU:HA	1:G:4913:ARG:HG2	1.86	0.58
1:A:674:PHE:CB	2:B:40:ARG:HH12	2.17	0.58
1:C:276:TRP:HA	1:C:316:PHE:HB2	1.85	0.58
1:C:3984:ARG:NH1	1:E:160:GLY:O	2.36	0.58
1:E:4190:ILE:HD11	1:E:5026:ASP:HB2	1.85	0.58
1:A:700:GLU:HG3	1:A:707:VAL:HB	1.85	0.58
1:A:1943:LEU:HA	1:A:1946:PHE:HD2	1.69	0.58
1:C:1439:VAL:HG22	1:C:1562:ILE:HG13	1.86	0.58
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.02	0.58
1:E:561:LEU:HD21	1:E:598:LYS:HB3	1.86	0.58
1:E:674:PHE:CB	2:F:40:ARG:HH12	2.16	0.58
1:E:1846:SER:O	1:E:1850:VAL:HG23	2.03	0.58
1:G:402:ARG:NH1	1:G:405:HIS:HD2	2.02	0.58
1:G:618:GLN:OE1	1:G:1675:ALA:HB2	2.03	0.58
1:G:623:GLU:OE1	2:H:88:PRO:HA	2.03	0.58
1:G:1130:GLN:HE21	1:G:1132:TRP:HE1	1.51	0.58
1:G:1783:VAL:CG1	2:H:55:VAL:HG12	2.34	0.58
1:G:2125:HIS:NE2	1:G:2129:ASP:OD2	2.37	0.58
1:G:2768:PHE:HA	1:G:2771:ILE:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:LEU:HD11	1:A:49:LEU:HD13	1.84	0.58
1:A:302:VAL:HG21	1:A:306:LYS:HD3	1.86	0.58
1:A:1256:GLU:HG2	1:A:1278:GLY:O	2.04	0.58
1:C:35:LEU:HD11	1:C:49:LEU:HD13	1.85	0.58
1:C:103:TYR:O	1:C:160:GLY:N	2.33	0.58
1:C:4901:ILE:HD13	1:C:4913:ARG:HH21	1.69	0.58
1:E:402:ARG:NH1	1:E:405:HIS:HD2	2.02	0.58
1:G:3931:SER:O	1:G:3934:TYR:HB3	2.04	0.58
1:A:1087:ARG:HB3	1:A:1223:PHE:HD1	1.64	0.58
1:G:4839:MET:O	1:G:4843:LEU:N	2.29	0.58
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.04	0.57
1:E:4901:ILE:HD13	1:E:4913:ARG:HH21	1.69	0.57
1:E:5009:TYR:O	1:E:5013:MET:HG2	2.03	0.57
1:G:2336:ARG:NH1	1:G:2428:ALA:HA	2.19	0.57
1:A:607:CYS:O	1:A:618:GLN:NE2	2.37	0.57
1:A:1439:VAL:HG22	1:A:1562:ILE:HG13	1.86	0.57
1:A:3963:ASN:O	1:A:3966:THR:OG1	2.14	0.57
1:C:1256:GLU:HG2	1:C:1278:GLY:O	2.04	0.57
1:C:1846:SER:O	1:C:1850:VAL:HG23	2.03	0.57
1:E:696:PRO:HD2	1:E:829:TYR:HE2	1.68	0.57
1:E:2294:ASP:O	1:E:2298:VAL:HG23	2.04	0.57
1:E:3781:GLN:O	1:E:3784:SER:OG	2.19	0.57
1:A:103:TYR:O	1:A:160:GLY:N	2.32	0.57
1:A:1846:SER:O	1:A:1850:VAL:HG23	2.03	0.57
1:A:2344:GLU:OE2	1:A:2508:ARG:NH2	2.37	0.57
1:A:3926:LEU:O	1:A:3930:ILE:HG12	2.04	0.57
1:A:4904:PRO:HA	1:A:4905:ALA:C	2.24	0.57
1:C:248:GLU:HG3	1:C:372:LEU:HD11	1.85	0.57
1:C:2344:GLU:OE2	1:C:2508:ARG:NH2	2.38	0.57
1:E:544:LEU:HD11	1:E:578:ILE:HB	1.85	0.57
1:E:607:CYS:HB3	1:E:618:GLN:HE21	1.69	0.57
1:G:1131:ARG:NH1	1:G:1137:GLU:OE1	2.38	0.57
1:G:3897:ASN:HA	1:G:3900:GLN:HB2	1.86	0.57
1:A:4898:GLY:H	1:G:4892:ARG:HH12	1.52	0.57
1:A:4933:GLN:O	1:A:4937:ILE:HG12	2.05	0.57
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.15	0.57
1:C:1735:ILE:HD12	1:C:1771:LEU:HD12	1.86	0.57
1:C:4190:ILE:HD11	1:C:5026:ASP:HB2	1.85	0.57
1:C:4836:GLN:O	1:C:4839:MET:HG2	2.04	0.57
1:E:4555:LEU:HD11	1:E:4656:LEU:HG	1.87	0.57
1:E:4821:LYS:HD3	1:E:4947:GLN:NE2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1205:GLY:HA2	1:G:1225:PRO:HB2	1.87	0.57
1:G:2870:GLU:OE2	1:G:2939:ARG:NH2	2.38	0.57
1:A:1783:VAL:CG1	2:B:55:VAL:HG12	2.34	0.57
1:C:4555:LEU:HD11	1:C:4656:LEU:HG	1.86	0.57
1:G:748:LEU:HD13	1:G:755:ILE:HG13	1.85	0.57
1:G:4893:ALA:HB1	1:G:4896:GLY:HA2	1.86	0.57
1:C:402:ARG:NH1	1:C:405:HIS:HD2	2.02	0.57
1:C:4822:THR:O	1:C:4825:THR:HB	2.04	0.57
1:G:302:VAL:HG21	1:G:306:LYS:HD3	1.86	0.57
1:G:565:TYR:O	1:G:569:ILE:HG12	2.05	0.57
1:G:1105:ALA:HB1	1:G:1109:LEU:HD21	1.85	0.57
1:G:4010:ILE:HA	1:G:4013:LEU:HB3	1.85	0.57
1:A:607:CYS:HB3	1:A:618:GLN:HE21	1.69	0.57
1:A:717:ASP:OD2	2:B:7:ILE:HA	2.04	0.57
1:A:880:GLU:HB3	1:A:967:PRO:HG2	1.86	0.57
1:A:1457:TYR:CG	1:A:1458:HIS:N	2.73	0.57
1:A:4893:ALA:HB1	1:A:4896:GLY:HA2	1.87	0.57
1:C:561:LEU:HD21	1:C:598:LYS:HB3	1.86	0.57
1:C:3878:ASP:O	1:C:3881:THR:OG1	2.14	0.57
1:C:4904:PRO:HA	1:C:4905:ALA:C	2.24	0.57
1:E:3878:ASP:O	1:E:3881:THR:OG1	2.14	0.57
1:E:3926:LEU:O	1:E:3930:ILE:HG12	2.03	0.57
1:E:4888:TYR:OH	1:G:4898:GLY:CA	2.53	0.57
1:G:3761:GLN:HA	1:G:3764:LEU:HD12	1.87	0.57
1:A:402:ARG:NH1	1:A:405:HIS:HD2	2.02	0.57
1:C:1457:TYR:CG	1:C:1458:HIS:N	2.73	0.57
1:C:2768:PHE:HA	1:C:2771:ILE:HD12	1.84	0.57
1:C:4793:GLY:HA2	1:C:4796:MET:HG2	1.86	0.57
1:C:4910:GLU:OE2	1:C:4914:VAL:HG21	2.04	0.57
1:E:1131:ARG:NH1	1:E:1137:GLU:OE1	2.38	0.57
1:G:561:LEU:HD21	1:G:598:LYS:HB3	1.87	0.57
1:G:1617:THR:O	1:G:1618:ARG:NH2	2.38	0.57
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.87	0.57
1:A:4793:GLY:HA2	1:A:4796:MET:HG2	1.87	0.57
1:E:103:TYR:OH	1:E:167:ASP:OD2	2.23	0.57
1:E:1439:VAL:HG22	1:E:1562:ILE:HG13	1.86	0.57
1:E:4770:SER:O	1:E:4772:ASP:N	2.33	0.57
1:E:4910:GLU:OE2	1:E:4914:VAL:HG21	2.04	0.57
1:E:4933:GLN:O	1:E:4937:ILE:HG12	2.03	0.57
1:G:210:GLU:HB2	1:G:213:TYR:HD2	1.68	0.57
1:G:1439:VAL:HG22	1:G:1562:ILE:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4154:VAL:HG22	1:G:4157:ASP:OD2	2.04	0.57
1:A:1695:LEU:HA	1:A:1698:LEU:HD13	1.87	0.57
1:C:921:ASN:O	1:C:925:SER:N	2.26	0.57
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.16	0.57
1:E:643:SER:HA	1:E:782:SER:HA	1.87	0.57
1:E:4836:GLN:O	1:E:4839:MET:HG2	2.05	0.57
1:G:1256:GLU:HG2	1:G:1278:GLY:O	2.04	0.57
1:G:4192:ARG:NH1	1:G:5028:PHE:HB3	2.13	0.57
1:G:4924:VAL:HG13	1:G:4928:LEU:HD12	1.87	0.57
1:A:1131:ARG:NH1	1:A:1137:GLU:OE1	2.38	0.56
1:A:1731:LEU:HA	1:A:1772:ARG:HD3	1.87	0.56
1:A:2098:VAL:O	1:A:2102:VAL:HG23	2.05	0.56
1:A:4822:THR:O	1:A:4825:THR:HB	2.05	0.56
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.23	0.56
1:C:476:SER:O	1:C:480:GLU:HG3	2.05	0.56
1:E:533:ASN:HB3	1:E:536:ASN:HD22	1.70	0.56
1:E:2344:GLU:OE2	1:E:2508:ARG:NH2	2.38	0.56
1:G:1719:HIS:CD2	1:G:1802:ILE:HG23	2.40	0.56
1:A:216:GLY:HA3	1:A:264:PRO:HD3	1.86	0.56
1:A:1439:VAL:O	1:A:1513:ASP:N	2.31	0.56
1:C:302:VAL:HG21	1:C:306:LYS:HD3	1.87	0.56
1:C:3935:TRP:HB2	1:E:76:ARG:HG3	1.87	0.56
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.06	0.56
1:E:210:GLU:HB2	1:E:213:TYR:HD2	1.67	0.56
1:E:216:GLY:HA3	1:E:264:PRO:HD3	1.87	0.56
1:E:607:CYS:O	1:E:618:GLN:NE2	2.37	0.56
1:G:229:GLU:HA	1:G:249:GLY:HA2	1.87	0.56
1:G:1491:ASN:O	1:G:1493:TYR:N	2.38	0.56
1:G:1731:LEU:HA	1:G:1772:ARG:HD3	1.87	0.56
1:G:4974:GLY:O	1:G:4977:THR:OG1	2.17	0.56
1:A:476:SER:O	1:A:480:GLU:HG3	2.05	0.56
1:A:565:TYR:O	1:A:569:ILE:HG12	2.05	0.56
1:A:1105:ALA:HB1	1:A:1109:LEU:HD21	1.86	0.56
1:A:2059:LEU:HB3	1:A:2062:ARG:HH12	1.68	0.56
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.05	0.56
1:A:4154:VAL:HG13	1:A:4160:LEU:HD22	1.87	0.56
1:A:4567:LEU:HD12	1:A:4815:ASP:OD2	2.05	0.56
1:A:4853:VAL:O	1:A:4857:ASN:ND2	2.38	0.56
1:C:607:CYS:O	1:C:618:GLN:NE2	2.37	0.56
1:C:674:PHE:CB	2:D:40:ARG:HH12	2.18	0.56
1:C:1943:LEU:HA	1:C:1946:PHE:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4567:LEU:HD12	1:C:4815:ASP:OD2	2.05	0.56
1:C:4832:HIS:NE2	1:C:4939:ALA:HB1	2.21	0.56
1:E:476:SER:O	1:E:480:GLU:HG3	2.05	0.56
1:E:565:TYR:O	1:E:569:ILE:HG12	2.05	0.56
1:E:1256:GLU:HG2	1:E:1278:GLY:O	2.04	0.56
1:E:1617:THR:O	1:E:1618:ARG:NH2	2.38	0.56
1:E:1862:ILE:O	1:E:1865:MET:HB3	2.06	0.56
1:E:2059:LEU:HB3	1:E:2062:ARG:HH12	1.68	0.56
1:E:4181:ILE:HG12	1:E:4195:PHE:HE1	1.70	0.56
1:E:4853:VAL:O	1:E:4857:ASN:ND2	2.38	0.56
1:E:4904:PRO:HA	1:E:4905:ALA:C	2.24	0.56
1:G:476:SER:O	1:G:480:GLU:HG3	2.05	0.56
1:G:643:SER:HA	1:G:782:SER:HA	1.87	0.56
1:G:1457:TYR:CG	1:G:1458:HIS:N	2.73	0.56
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.05	0.56
1:G:4904:PRO:HA	1:G:4905:ALA:C	2.25	0.56
1:A:561:LEU:HD21	1:A:598:LYS:HB3	1.86	0.56
1:C:1083:VAL:HG11	1:C:1088:TRP:CZ2	2.41	0.56
1:C:1719:HIS:CD2	1:C:1802:ILE:HG23	2.40	0.56
1:C:4192:ARG:NH1	1:C:5028:PHE:HB3	2.15	0.56
1:E:1457:TYR:CG	1:E:1458:HIS:N	2.73	0.56
1:E:3935:TRP:HB2	1:G:76:ARG:HG3	1.87	0.56
1:E:3984:ARG:NH1	1:G:160:GLY:O	2.35	0.56
1:G:3794:VAL:O	1:G:3797:THR:OG1	2.20	0.56
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.24	0.56
1:A:1719:HIS:CD2	1:A:1802:ILE:HG23	2.40	0.56
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.06	0.56
1:C:607:CYS:HB3	1:C:618:GLN:HE21	1.70	0.56
1:C:1714:LEU:HA	1:C:1717:SER:HB3	1.88	0.56
1:C:4181:ILE:HG12	1:C:4195:PHE:HE1	1.71	0.56
1:E:224:HIS:HB3	1:E:229:GLU:HG2	1.88	0.56
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.06	0.56
1:G:1695:LEU:HA	1:G:1698:LEU:HD13	1.87	0.56
1:G:4107:GLU:O	1:G:4111:LEU:N	2.38	0.56
1:A:1294:PRO:HB3	1:A:1547:LYS:HB3	1.88	0.56
1:C:533:ASN:HB3	1:C:536:ASN:HD22	1.70	0.56
1:C:643:SER:HA	1:C:782:SER:HA	1.87	0.56
1:C:1491:ASN:O	1:C:1493:TYR:N	2.38	0.56
1:E:302:VAL:HG21	1:E:306:LYS:HD3	1.86	0.56
1:E:1083:VAL:HG11	1:E:1088:TRP:CZ2	2.40	0.56
1:E:1735:ILE:HD12	1:E:1771:LEU:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4974:GLY:O	1:E:4977:THR:OG1	2.15	0.56
1:G:103:TYR:OH	1:G:167:ASP:OD2	2.23	0.56
1:G:607:CYS:O	1:G:618:GLN:NE2	2.38	0.56
1:G:1943:LEU:HA	1:G:1946:PHE:HD2	1.71	0.56
1:G:4145:VAL:HG13	1:G:4194:TYR:HB2	1.87	0.56
1:G:4181:ILE:HG12	1:G:4195:PHE:HE1	1.69	0.56
1:G:4864:ASN:HB2	1:G:4902:GLU:HG3	1.88	0.56
1:A:643:SER:HA	1:A:782:SER:HA	1.88	0.56
1:A:4910:GLU:OE2	1:A:4914:VAL:HG21	2.06	0.56
1:C:717:ASP:OD2	2:D:7:ILE:HA	2.05	0.56
1:C:2125:HIS:NE2	1:C:2129:ASP:OD2	2.39	0.56
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.06	0.56
1:E:4898:GLY:HA2	1:E:4901:ILE:HG22	1.87	0.56
1:G:150:MET:SD	1:G:169:LEU:HD22	2.45	0.56
1:G:216:GLY:HA3	1:G:264:PRO:HD3	1.86	0.56
1:G:4574:ASN:ND2	1:G:4813:LEU:HD23	2.21	0.56
1:A:1714:LEU:HA	1:A:1717:SER:HB3	1.88	0.56
1:A:4172:GLU:HG2	1:A:4175:ARG:NH1	2.20	0.56
1:A:4555:LEU:HD11	1:A:4656:LEU:HG	1.86	0.56
1:C:224:HIS:HB3	1:C:229:GLU:HG2	1.88	0.56
1:C:2098:VAL:O	1:C:2102:VAL:HG23	2.06	0.56
1:C:2212:VAL:HG22	1:C:2260:ASN:HD21	1.71	0.56
1:C:3980:LEU:HD22	1:C:3985:LEU:HD22	1.87	0.56
1:E:1205:GLY:HA2	1:E:1225:PRO:HB2	1.88	0.56
1:E:1731:LEU:HA	1:E:1772:ARG:HD3	1.87	0.56
1:E:2125:HIS:NE2	1:E:2129:ASP:OD2	2.39	0.56
1:E:3793:MET:O	1:E:3797:THR:HG23	2.06	0.56
1:E:3965:LEU:O	1:E:3969:ILE:HD12	2.06	0.56
1:G:224:HIS:HB3	1:G:229:GLU:HG2	1.88	0.56
1:G:3814:GLN:HG3	1:G:3815:LYS:N	2.19	0.56
1:A:670:GLU:HB3	1:A:788:LYS:H	1.71	0.56
1:A:921:ASN:O	1:A:925:SER:N	2.26	0.56
1:A:1491:ASN:O	1:A:1493:TYR:N	2.38	0.56
1:C:565:TYR:O	1:C:569:ILE:HG12	2.05	0.56
1:C:1617:THR:O	1:C:1618:ARG:NH2	2.39	0.56
1:E:150:MET:SD	1:E:169:LEU:HD22	2.45	0.56
1:E:229:GLU:HA	1:E:249:GLY:HA2	1.87	0.56
1:E:2098:VAL:O	1:E:2102:VAL:HG23	2.06	0.56
1:E:2212:VAL:HG22	1:E:2260:ASN:HD21	1.71	0.56
1:E:4007:SER:O	1:E:4010:ILE:HG12	2.05	0.56
1:G:1856:ASP:N	1:G:1857:GLU:HB3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1862:ILE:O	1:G:1865:MET:HB3	2.06	0.56
1:G:3902:TYR:HE1	1:G:3908:GLY:H	1.54	0.56
1:A:1617:THR:O	1:A:1618:ARG:NH2	2.38	0.56
1:A:4007:SER:O	1:A:4010:ILE:HG12	2.06	0.56
1:C:1585:LYS:HB3	1:C:1587:PRO:HD2	1.88	0.56
1:C:1695:LEU:HA	1:C:1698:LEU:HD13	1.87	0.56
1:C:1856:ASP:N	1:C:1857:GLU:HB3	2.21	0.56
1:C:2137:ALA:HA	1:C:2140:ARG:NH1	2.22	0.56
1:E:1491:ASN:O	1:E:1493:TYR:N	2.38	0.56
1:G:490:CYS:O	1:G:494:LEU:HG	2.06	0.56
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.06	0.56
1:G:4720:VAL:HA	1:G:4723:LYS:HE2	1.88	0.56
1:A:224:HIS:HB3	1:A:229:GLU:HG2	1.88	0.55
1:A:526:LEU:O	1:A:530:ILE:HG13	2.07	0.55
1:C:880:GLU:HB3	1:C:967:PRO:HG2	1.87	0.55
1:C:1131:ARG:NH1	1:C:1137:GLU:OE1	2.38	0.55
1:C:2358:ILE:HG21	1:E:195:PHE:HE2	1.71	0.55
1:C:3793:MET:O	1:C:3797:THR:HG23	2.06	0.55
1:C:3965:LEU:O	1:C:3969:ILE:HD12	2.05	0.55
1:C:4007:SER:O	1:C:4010:ILE:HG12	2.06	0.55
1:E:4806:ASN:O	1:E:4809:PHE:HB3	2.05	0.55
1:G:2771:ILE:HG23	1:G:2852:ARG:HB2	1.88	0.55
1:A:1708:ARG:HH11	1:A:1712:TYR:HE2	1.54	0.55
1:A:2276:ALA:O	1:A:2280:VAL:HG23	2.06	0.55
2:B:37:ASP:OD1	2:B:38:SER:N	2.39	0.55
1:C:1839:VAL:HB	1:C:1840:PRO:HD3	1.89	0.55
1:C:2059:LEU:HB3	1:C:2062:ARG:HH12	1.69	0.55
1:C:2191:PHE:HE1	1:C:2239:PHE:HD1	1.54	0.55
1:C:2336:ARG:NH1	1:C:2428:ALA:HA	2.21	0.55
1:C:3786:CYS:SG	1:C:3794:VAL:HG22	2.46	0.55
1:C:3806:ASN:OD1	1:C:3807:GLY:N	2.40	0.55
1:C:4230:LYS:HD2	1:C:4959:PHE:O	2.07	0.55
1:E:2137:ALA:HA	1:E:2140:ARG:NH1	2.21	0.55
1:E:2276:ALA:O	1:E:2280:VAL:HG23	2.06	0.55
1:E:4832:HIS:NE2	1:E:4939:ALA:HB1	2.22	0.55
2:H:49:MET:N	2:H:54:GLU:OE2	2.40	0.55
1:A:533:ASN:HB3	1:A:536:ASN:HD22	1.71	0.55
1:A:1245:PHE:HA	1:A:1604:SER:HA	1.88	0.55
1:A:2212:VAL:HG22	1:A:2260:ASN:HD21	1.71	0.55
1:A:4898:GLY:HA2	1:A:4901:ILE:HG22	1.88	0.55
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:826:ILE:HG22	1:C:827:LYS:HG2	1.89	0.55
1:C:4893:ALA:HB1	1:C:4896:GLY:HA2	1.89	0.55
1:E:2771:ILE:HG23	1:E:2852:ARG:HB2	1.87	0.55
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.42	0.55
1:G:526:LEU:O	1:G:530:ILE:HG13	2.06	0.55
1:G:607:CYS:HB3	1:G:618:GLN:HE21	1.70	0.55
1:G:1125:ASN:ND2	1:G:1130:GLN:O	2.27	0.55
1:A:2137:ALA:HA	1:A:2140:ARG:NH1	2.21	0.55
1:C:150:MET:SD	1:C:169:LEU:HD22	2.46	0.55
1:E:490:CYS:O	1:E:494:LEU:HG	2.07	0.55
1:E:1719:HIS:CD2	1:E:1802:ILE:HG23	2.40	0.55
1:E:1856:ASP:N	1:E:1857:GLU:HB3	2.21	0.55
1:E:4230:LYS:HD2	1:E:4959:PHE:O	2.06	0.55
1:E:4241:THR:O	1:E:4244:GLU:HB3	2.06	0.55
1:E:4888:TYR:OH	1:G:4898:GLY:O	2.23	0.55
1:G:2098:VAL:O	1:G:2102:VAL:HG23	2.06	0.55
1:A:490:CYS:O	1:A:494:LEU:HG	2.07	0.55
1:A:2336:ARG:NH1	1:A:2428:ALA:HA	2.21	0.55
1:A:3760:LYS:O	1:A:3764:LEU:HG	2.07	0.55
1:A:3793:MET:O	1:A:3797:THR:HG23	2.06	0.55
1:A:4181:ILE:HG12	1:A:4195:PHE:HE1	1.71	0.55
1:C:526:LEU:O	1:C:530:ILE:HG13	2.07	0.55
1:C:1930:LYS:O	1:C:1931:LEU:HD12	2.07	0.55
1:C:2758:PHE:HD2	1:C:2809:ILE:HD13	1.72	0.55
1:C:4853:VAL:O	1:C:4857:ASN:ND2	2.38	0.55
2:D:87:HIS:CE1	2:D:90:ILE:HD13	2.42	0.55
1:E:2191:PHE:HE1	1:E:2239:PHE:HD1	1.54	0.55
1:E:2336:ARG:NH1	1:E:2428:ALA:HA	2.22	0.55
1:E:2556:LEU:HD23	1:E:2559:LEU:HD12	1.88	0.55
1:E:4154:VAL:HG13	1:E:4160:LEU:HD22	1.88	0.55
1:G:166:GLY:O	1:G:201:ASN:ND2	2.40	0.55
1:G:533:ASN:HB3	1:G:536:ASN:HD22	1.71	0.55
1:G:1649:ASP:OD1	1:G:1652:GLU:HB2	2.06	0.55
1:G:1937:LEU:HD12	1:G:2116:LEU:HD12	1.88	0.55
1:G:3805:LEU:HB3	1:G:3890:LEU:HB3	1.89	0.55
1:G:4782:VAL:O	1:G:4785:THR:OG1	2.17	0.55
1:A:1141:ARG:HH12	1:A:1169:LEU:CD1	2.19	0.55
1:A:1667:LEU:HD23	1:A:1710:GLY:HA3	1.89	0.55
1:A:2125:HIS:NE2	1:A:2129:ASP:OD2	2.39	0.55
1:A:3786:CYS:SG	1:A:3794:VAL:HG22	2.46	0.55
1:A:3984:ARG:NH1	1:C:160:GLY:O	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4839:MET:CE	1:G:4826:ILE:CG1	2.84	0.55
1:C:490:CYS:O	1:C:494:LEU:HG	2.06	0.55
1:C:1731:LEU:HA	1:C:1772:ARG:HD3	1.87	0.55
1:C:1862:ILE:O	1:C:1865:MET:HB3	2.06	0.55
1:C:2556:LEU:HD23	1:C:2559:LEU:HD12	1.88	0.55
1:E:826:ILE:HG22	1:E:827:LYS:HG2	1.89	0.55
1:E:3786:CYS:SG	1:E:3794:VAL:HG22	2.46	0.55
1:E:4567:LEU:HD12	1:E:4815:ASP:OD2	2.06	0.55
1:G:212:GLY:O	1:G:340:LYS:HA	2.07	0.55
1:G:1083:VAL:HG11	1:G:1088:TRP:CZ2	2.41	0.55
1:A:1862:ILE:O	1:A:1865:MET:HB3	2.06	0.55
1:A:2556:LEU:HD23	1:A:2559:LEU:HD12	1.88	0.55
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.05	0.55
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.06	0.55
1:G:1585:LYS:HB3	1:G:1587:PRO:HD2	1.88	0.55
1:G:1714:LEU:HA	1:G:1717:SER:HB3	1.88	0.55
1:A:3806:ASN:OD1	1:A:3807:GLY:N	2.40	0.55
1:A:4077:PHE:CZ	1:A:4125:PHE:HA	2.42	0.55
1:C:2276:ALA:O	1:C:2280:VAL:HG23	2.06	0.55
1:C:4154:VAL:HG13	1:C:4160:LEU:HD22	1.88	0.55
1:C:4241:THR:O	1:C:4244:GLU:HB3	2.07	0.55
1:C:4898:GLY:HA2	1:C:4901:ILE:HG22	1.87	0.55
1:E:887:ILE:HG21	1:E:962:SER:HB2	1.89	0.55
1:E:1783:VAL:CG1	2:F:55:VAL:HG12	2.37	0.55
1:E:1930:LYS:O	1:E:1931:LEU:HD12	2.07	0.55
1:G:1143:TRP:HB3	1:G:1164:LEU:CD1	2.37	0.55
2:H:25:HIS:O	2:H:102:GLU:N	2.35	0.55
1:A:212:GLY:O	1:A:340:LYS:HA	2.07	0.55
1:A:1083:VAL:HG11	1:A:1088:TRP:CZ2	2.42	0.55
1:A:1856:ASP:N	1:A:1857:GLU:HB3	2.21	0.55
1:A:3965:LEU:O	1:A:3969:ILE:HD12	2.07	0.55
1:C:216:GLY:HA3	1:C:264:PRO:HD3	1.87	0.55
1:C:915:GLU:HB3	1:C:923:GLN:HB2	1.89	0.55
1:C:4864:ASN:HB2	1:C:4902:GLU:HG3	1.89	0.55
1:E:669:ASP:HB3	1:E:788:LYS:HZ1	1.72	0.55
1:E:702:TRP:HD1	2:F:34:LYS:NZ	2.01	0.55
1:E:915:GLU:HB3	1:E:923:GLN:HB2	1.88	0.55
1:E:1143:TRP:HB3	1:E:1164:LEU:CD1	2.37	0.55
1:E:2924:GLN:HB3	1:E:2928:LYS:HE2	1.89	0.55
1:G:1245:PHE:HA	1:G:1604:SER:HA	1.89	0.55
1:G:1712:TYR:HD2	1:G:1840:PRO:HB2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1930:LYS:O	1:G:1931:LEU:HD12	2.07	0.55
1:G:2212:VAL:HG22	1:G:2260:ASN:HD21	1.72	0.55
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.88	0.55
1:A:512:ALA:O	1:A:515:TRP:HB3	2.07	0.55
1:A:915:GLU:HB3	1:A:923:GLN:HB2	1.89	0.55
1:C:790:ARG:HA	1:C:1627:ALA:HA	1.89	0.55
1:C:5027:CYS:HB3	1:C:5030:LYS:HB3	1.89	0.55
1:E:1695:LEU:HA	1:E:1698:LEU:HD13	1.87	0.55
1:E:1714:LEU:HA	1:E:1717:SER:HB3	1.88	0.55
1:E:1810:LYS:HD3	1:E:1813:ARG:HH12	1.72	0.55
1:E:3760:LYS:O	1:E:3764:LEU:HG	2.07	0.55
1:E:5027:CYS:HB3	1:E:5030:LYS:HB3	1.89	0.55
2:F:37:ASP:OD1	2:F:38:SER:N	2.39	0.55
1:G:1839:VAL:HB	1:G:1840:PRO:HD3	1.89	0.55
1:A:1930:LYS:O	1:A:1931:LEU:HD12	2.07	0.54
1:C:1245:PHE:HA	1:C:1604:SER:HA	1.88	0.54
1:E:512:ALA:O	1:E:515:TRP:HB3	2.06	0.54
1:E:674:PHE:HD1	2:F:40:ARG:HH12	1.52	0.54
1:E:1585:LYS:HB3	1:E:1587:PRO:HD2	1.88	0.54
1:E:1714:LEU:O	1:E:1718:ILE:HG12	2.07	0.54
2:F:38:SER:HB3	2:F:41:ASP:OD2	2.07	0.54
1:G:880:GLU:HB3	1:G:967:PRO:HG2	1.87	0.54
1:G:915:GLU:HB3	1:G:923:GLN:HB2	1.89	0.54
1:G:1708:ARG:HH11	1:G:1712:TYR:HE2	1.55	0.54
1:G:2191:PHE:HE1	1:G:2239:PHE:HD1	1.53	0.54
1:G:2276:ALA:O	1:G:2280:VAL:HG23	2.06	0.54
2:H:37:ASP:OD1	2:H:38:SER:N	2.41	0.54
2:H:67:SER:N	2:H:70:GLN:OE1	2.33	0.54
1:A:1243:PRO:HB3	1:A:1606:SER:HA	1.90	0.54
1:A:2771:ILE:HG23	1:A:2852:ARG:HB2	1.89	0.54
1:A:4832:HIS:NE2	1:A:4939:ALA:HB1	2.22	0.54
2:B:38:SER:HB3	2:B:41:ASP:OD2	2.07	0.54
1:C:670:GLU:HB3	1:C:788:LYS:H	1.71	0.54
1:C:1143:TRP:HB3	1:C:1164:LEU:CD1	2.37	0.54
1:E:645:ARG:HD3	1:E:826:ILE:HG13	1.90	0.54
1:E:1245:PHE:HA	1:E:1604:SER:HA	1.89	0.54
1:E:3806:ASN:OD1	1:E:3807:GLY:N	2.40	0.54
1:E:4849:TYR:O	1:E:4853:VAL:HG23	2.06	0.54
1:G:826:ILE:HG22	1:G:827:LYS:HG2	1.89	0.54
1:G:1739:THR:O	1:G:1742:THR:OG1	2.20	0.54
1:G:2059:LEU:HB3	1:G:2062:ARG:HH12	1.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2137:ALA:HA	1:G:2140:ARG:NH1	2.22	0.54
1:G:3774:GLY:HA2	1:G:3815:LYS:NZ	2.22	0.54
1:A:4241:THR:O	1:A:4244:GLU:HB3	2.06	0.54
1:A:4666:VAL:HB	1:A:4667:PRO:HD3	1.89	0.54
1:C:37:LEU:HB2	1:C:200:TRP:CZ3	2.43	0.54
1:C:834:PRO:HD2	1:C:838:HIS:HE2	1.73	0.54
1:C:1111:PRO:HG3	1:C:1609:PRO:HG3	1.89	0.54
1:C:1714:LEU:O	1:C:1718:ILE:HG12	2.08	0.54
2:D:37:ASP:OD1	2:D:38:SER:N	2.40	0.54
1:E:622:THR:HB	1:E:626:LEU:HD12	1.89	0.54
1:E:4077:PHE:CZ	1:E:4125:PHE:HA	2.42	0.54
1:E:4928:LEU:O	1:E:4931:ILE:HG22	2.08	0.54
1:G:739:ALA:O	1:G:741:GLU:N	2.40	0.54
1:G:834:PRO:HD2	1:G:838:HIS:HE2	1.72	0.54
1:G:1111:PRO:HG3	1:G:1609:PRO:HG3	1.89	0.54
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.06	0.54
1:C:645:ARG:HD3	1:C:826:ILE:HG13	1.89	0.54
1:C:1294:PRO:HB3	1:C:1547:LYS:HB3	1.89	0.54
1:C:2496:PRO:HB3	1:C:2552:ARG:HD2	1.90	0.54
2:D:38:SER:HB3	2:D:41:ASP:OD2	2.07	0.54
1:E:526:LEU:O	1:E:530:ILE:HG13	2.07	0.54
1:E:1943:LEU:HA	1:E:1946:PHE:HD2	1.71	0.54
1:E:4864:ASN:HB2	1:E:4902:GLU:HG3	1.90	0.54
1:G:512:ALA:O	1:G:515:TRP:HB3	2.07	0.54
1:G:4222:VAL:HG11	1:G:4950:VAL:HA	1.89	0.54
1:G:4580:TYR:HB2	1:G:4631:PHE:HD1	1.73	0.54
1:A:37:LEU:HB2	1:A:200:TRP:CZ3	2.42	0.54
1:A:1438:ARG:HA	1:A:1514:LEU:HA	1.90	0.54
1:A:1585:LYS:HB3	1:A:1587:PRO:HD2	1.88	0.54
1:A:1810:LYS:HD3	1:A:1813:ARG:HH12	1.71	0.54
1:A:2191:PHE:HE1	1:A:2239:PHE:HD1	1.54	0.54
1:C:166:GLY:O	1:C:201:ASN:ND2	2.40	0.54
1:C:1810:LYS:HD3	1:C:1813:ARG:HH12	1.72	0.54
1:C:4077:PHE:CZ	1:C:4125:PHE:HA	2.42	0.54
1:E:1667:LEU:HD23	1:E:1710:GLY:HA3	1.89	0.54
1:G:670:GLU:HB3	1:G:788:LYS:H	1.71	0.54
1:G:1714:LEU:O	1:G:1718:ILE:HG12	2.07	0.54
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.08	0.54
1:G:4844:LEU:HD11	1:G:4891:VAL:HG13	1.88	0.54
1:A:645:ARG:HD3	1:A:826:ILE:HG13	1.90	0.54
1:A:650:VAL:O	1:A:777:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1240:LYS:HZ3	1:A:1242:LEU:HB2	1.73	0.54
1:A:1714:LEU:O	1:A:1718:ILE:HG12	2.07	0.54
1:A:2515:GLN:NE2	1:A:2608:MET:O	2.40	0.54
1:C:512:ALA:O	1:C:515:TRP:HB3	2.07	0.54
1:E:103:TYR:O	1:E:160:GLY:N	2.33	0.54
1:E:670:GLU:HB3	1:E:788:LYS:H	1.71	0.54
1:E:790:ARG:HA	1:E:1627:ALA:HA	1.89	0.54
1:E:834:PRO:HD2	1:E:838:HIS:HE2	1.73	0.54
1:E:1649:ASP:OD1	1:E:1652:GLU:HB2	2.07	0.54
1:G:37:LEU:HB2	1:G:200:TRP:CZ3	2.42	0.54
1:G:645:ARG:HD3	1:G:826:ILE:HG13	1.90	0.54
1:G:1294:PRO:HB3	1:G:1547:LYS:HB3	1.90	0.54
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.07	0.54
1:G:4770:SER:O	1:G:4772:ASP:N	2.33	0.54
1:G:4965:SER:HA	1:G:4975:PHE:CD1	2.43	0.54
1:G:5009:TYR:O	1:G:5013:MET:N	2.39	0.54
2:H:58:GLY:HA3	2:H:76:ILE:HG23	1.90	0.54
1:A:3980:LEU:HD22	1:A:3985:LEU:HD22	1.88	0.54
1:A:4720:VAL:HA	1:A:4723:LYS:NZ	2.23	0.54
1:C:116:MET:HA	1:C:139:GLU:HA	1.90	0.54
1:C:563:VAL:O	1:C:567:VAL:HG23	2.08	0.54
1:C:622:THR:HB	1:C:626:LEU:HD12	1.90	0.54
1:C:1808:ARG:HB2	1:C:1854:PHE:CE1	2.43	0.54
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.89	0.54
1:E:212:GLY:O	1:E:340:LYS:HA	2.08	0.54
1:G:103:TYR:O	1:G:160:GLY:N	2.33	0.54
1:G:622:THR:HB	1:G:626:LEU:HD12	1.90	0.54
1:G:688:LEU:HG	1:G:710:ASP:HB3	1.90	0.54
1:G:1808:ARG:HB2	1:G:1854:PHE:CE1	2.43	0.54
1:G:4024:VAL:HA	1:G:4027:LEU:HD12	1.89	0.54
2:H:87:HIS:CE1	2:H:90:ILE:HD13	2.43	0.54
1:A:559:GLY:O	1:A:563:VAL:HG23	2.08	0.54
1:A:1046:LEU:O	1:A:1050:GLY:N	2.41	0.54
1:A:1143:TRP:HB3	1:A:1164:LEU:CD1	2.37	0.54
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.20	0.54
1:A:4921:PHE:CE2	1:G:4892:ARG:HA	2.43	0.54
2:B:87:HIS:CE1	2:B:90:ILE:HD13	2.42	0.54
1:C:212:GLY:O	1:C:340:LYS:HA	2.07	0.54
1:C:1205:GLY:HA3	1:C:1227:ALA:H	1.73	0.54
2:D:38:SER:HB3	2:D:41:ASP:CG	2.28	0.54
1:E:166:GLY:O	1:E:201:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1243:PRO:HB3	1:E:1606:SER:HA	1.90	0.54
1:E:1292:SER:HB2	1:E:1602:PRO:HG3	1.90	0.54
1:E:3930:ILE:HG22	1:E:3995:VAL:HG11	1.89	0.54
1:E:4793:GLY:HA2	1:E:4796:MET:HG2	1.90	0.54
2:F:38:SER:HB3	2:F:41:ASP:CG	2.28	0.54
1:G:1729:SER:O	1:G:1732:SER:OG	2.19	0.54
1:A:116:MET:HA	1:A:139:GLU:HA	1.90	0.54
1:A:150:MET:SD	1:A:169:LEU:HD22	2.47	0.54
1:A:166:GLY:O	1:A:201:ASN:ND2	2.40	0.54
1:A:826:ILE:HG22	1:A:827:LYS:HG2	1.90	0.54
1:A:1649:ASP:OD1	1:A:1652:GLU:HB2	2.07	0.54
1:A:1937:LEU:HD12	1:A:2116:LEU:HD12	1.90	0.54
1:C:559:GLY:O	1:C:563:VAL:HG23	2.08	0.54
1:C:705:ASN:OD1	1:C:706:GLY:N	2.41	0.54
1:C:1125:ASN:ND2	1:C:1130:GLN:O	2.26	0.54
1:C:1805:GLU:OE1	1:C:1808:ARG:NE	2.35	0.54
1:C:2771:ILE:HG23	1:C:2852:ARG:HB2	1.89	0.54
1:E:688:LEU:HG	1:E:710:ASP:HB3	1.90	0.54
1:E:4044:MET:HA	1:E:4047:MET:HG2	1.90	0.54
1:E:4666:VAL:HB	1:E:4667:PRO:HD3	1.90	0.54
1:G:1141:ARG:HH12	1:G:1169:LEU:CD1	2.20	0.54
1:G:1243:PRO:HB3	1:G:1606:SER:HA	1.90	0.54
1:G:1810:LYS:HD3	1:G:1813:ARG:HH12	1.72	0.54
1:A:790:ARG:HA	1:A:1627:ALA:HA	1.89	0.54
1:A:4044:MET:HA	1:A:4047:MET:HG2	1.90	0.54
1:A:4161:ARG:HA	1:A:4164:LEU:HB3	1.90	0.54
1:A:5027:CYS:HB3	1:A:5030:LYS:HB3	1.89	0.54
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.08	0.54
1:C:3767:GLN:OE1	1:C:3809:ASN:ND2	2.34	0.54
1:E:705:ASN:OD1	1:E:706:GLY:N	2.41	0.54
1:E:1457:TYR:CZ	1:E:1459:GLN:NE2	2.76	0.54
1:E:1712:TYR:HD2	1:E:1840:PRO:HB2	1.73	0.54
1:E:2758:PHE:HD2	1:E:2809:ILE:HD13	1.72	0.54
1:E:3935:TRP:O	1:G:80:GLU:OE2	2.26	0.54
1:G:705:ASN:OD1	1:G:706:GLY:N	2.41	0.54
1:G:2158:CYS:SG	1:G:2184:ASN:ND2	2.81	0.54
1:G:2927:LEU:HD22	1:G:2937:VAL:HG11	1.90	0.54
1:C:1783:VAL:CG1	2:D:55:VAL:HG12	2.38	0.53
1:C:4044:MET:HA	1:C:4047:MET:HG2	1.90	0.53
1:C:4699:GLY:HA2	1:C:4702:ASP:HB2	1.90	0.53
1:C:4798:MET:SD	1:C:4801:LEU:HD12	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4823:LEU:HA	1:C:4826:ILE:HD12	1.90	0.53
2:D:18:ARG:NH1	2:D:51:GLY:HA3	2.24	0.53
2:D:25:HIS:CG	2:D:40:ARG:HE	2.27	0.53
1:E:650:VAL:O	1:E:777:PHE:N	2.40	0.53
1:E:1839:VAL:HB	1:E:1840:PRO:HD3	1.90	0.53
1:E:1937:LEU:HD12	1:E:2116:LEU:HD12	1.91	0.53
1:E:4581:LYS:HZ3	1:G:4877:ASP:HA	1.73	0.53
1:A:45:ARG:NH2	1:A:139:GLU:OE2	2.42	0.53
1:A:1808:ARG:HB2	1:A:1854:PHE:CE1	2.43	0.53
1:A:2758:PHE:HD2	1:A:2809:ILE:HD13	1.72	0.53
1:A:4230:LYS:HD2	1:A:4959:PHE:O	2.08	0.53
1:A:4823:LEU:HA	1:A:4826:ILE:HD12	1.90	0.53
1:C:45:ARG:NH2	1:C:139:GLU:OE2	2.42	0.53
1:C:1243:PRO:HB3	1:C:1606:SER:HA	1.90	0.53
1:C:1292:SER:HB2	1:C:1602:PRO:HG3	1.91	0.53
1:C:1562:ILE:HG12	1:C:1563:GLN:O	2.09	0.53
1:E:739:ALA:O	1:E:741:GLU:N	2.42	0.53
1:E:1808:ARG:HB2	1:E:1854:PHE:CE1	2.43	0.53
1:E:3767:GLN:OE1	1:E:3809:ASN:ND2	2.34	0.53
1:G:2095:GLN:HG3	1:G:2127:GLN:OE1	2.08	0.53
1:G:2099:SER:O	1:G:2103:VAL:HG23	2.08	0.53
1:G:3768:SER:HA	1:G:3771:HIS:HB3	1.89	0.53
1:A:1292:SER:HB2	1:A:1602:PRO:HG3	1.90	0.53
1:A:1712:TYR:HD2	1:A:1840:PRO:HB2	1.73	0.53
1:A:1839:VAL:HB	1:A:1840:PRO:HD3	1.90	0.53
1:C:400:ALA:O	1:C:404:ILE:HG13	2.09	0.53
1:C:650:VAL:O	1:C:777:PHE:N	2.41	0.53
1:C:1436:SER:HA	1:C:1515:VAL:O	2.08	0.53
1:C:1649:ASP:OD1	1:C:1652:GLU:HB2	2.07	0.53
1:C:1830:VAL:HG12	1:C:1834:VAL:HA	1.90	0.53
1:C:1833:SER:O	1:C:1835:GLU:N	2.41	0.53
1:C:3760:LYS:O	1:C:3764:LEU:HG	2.07	0.53
1:C:3841:VAL:HG12	1:C:3843:ASP:H	1.73	0.53
1:C:4720:VAL:HA	1:C:4723:LYS:NZ	2.23	0.53
1:E:110:ARG:HG2	1:E:117:TYR:CD1	2.44	0.53
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.73	0.53
1:E:3980:LEU:HD22	1:E:3985:LEU:HD22	1.89	0.53
1:G:102:LEU:HB2	1:G:105:HIS:HD2	1.72	0.53
1:G:110:ARG:HG2	1:G:117:TYR:CD1	2.43	0.53
1:G:790:ARG:HA	1:G:1627:ALA:HA	1.89	0.53
1:G:1562:ILE:HG12	1:G:1563:GLN:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1667:LEU:HD23	1:G:1710:GLY:HA3	1.90	0.53
1:G:1830:VAL:HG12	1:G:1834:VAL:HA	1.90	0.53
1:G:2214:VAL:HG11	1:G:2229:VAL:HG21	1.90	0.53
1:G:3984:ARG:O	1:G:3986:TRP:N	2.41	0.53
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.89	0.53
2:B:38:SER:HB3	2:B:41:ASP:CG	2.28	0.53
1:C:138:GLN:HG2	1:C:140:ASP:H	1.73	0.53
1:C:739:ALA:O	1:C:741:GLU:N	2.41	0.53
1:C:1141:ARG:HH12	1:C:1169:LEU:CD1	2.21	0.53
1:E:37:LEU:HB2	1:E:200:TRP:CZ3	2.43	0.53
1:E:1125:ASN:ND2	1:E:1130:GLN:O	2.27	0.53
1:E:1294:PRO:HB3	1:E:1547:LYS:HB3	1.91	0.53
1:E:1439:VAL:O	1:E:1512:THR:HB	2.08	0.53
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.90	0.53
1:E:1729:SER:O	1:E:1732:SER:OG	2.19	0.53
1:E:4956:THR:O	1:E:4965:SER:N	2.42	0.53
1:G:116:MET:HA	1:G:139:GLU:HA	1.90	0.53
1:G:314:PHE:HE1	1:G:378:LEU:HD21	1.73	0.53
1:G:3905:THR:HG23	1:G:3907:THR:HG23	1.90	0.53
1:G:4242:ILE:O	1:G:4246:GLN:HG2	2.09	0.53
1:A:563:VAL:O	1:A:567:VAL:HG23	2.08	0.53
1:A:705:ASN:OD1	1:A:706:GLY:N	2.41	0.53
1:A:1679:ASN:O	1:A:1683:HIS:ND1	2.41	0.53
1:A:4798:MET:SD	1:A:4801:LEU:HD12	2.49	0.53
1:E:638:ILE:HG22	1:E:639:ASN:N	2.24	0.53
1:E:2099:SER:O	1:E:2103:VAL:HG23	2.09	0.53
1:E:4849:TYR:HA	1:E:4852:THR:HG22	1.90	0.53
1:G:45:ARG:NH2	1:G:139:GLU:OE2	2.42	0.53
1:G:1046:LEU:O	1:G:1050:GLY:N	2.41	0.53
1:G:1240:LYS:O	1:G:1607:ARG:HA	2.09	0.53
1:G:4251:ILE:HG22	1:G:4557:ARG:HH11	1.74	0.53
1:A:24:CYS:SG	1:A:26:ALA:HB2	2.49	0.53
1:A:622:THR:HB	1:A:626:LEU:HD12	1.90	0.53
1:A:2099:SER:O	1:A:2103:VAL:HG23	2.08	0.53
1:A:2496:PRO:HB3	1:A:2552:ARG:HD2	1.90	0.53
2:B:16:PRO:HD3	2:B:66:MET:O	2.09	0.53
1:C:1641:ILE:HG23	1:C:1643:GLU:O	2.09	0.53
1:C:1667:LEU:HD23	1:C:1710:GLY:HA3	1.90	0.53
1:C:1712:TYR:HD2	1:C:1840:PRO:HB2	1.73	0.53
1:C:2099:SER:O	1:C:2103:VAL:HG23	2.09	0.53
1:C:4161:ARG:HA	1:C:4164:LEU:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:138:GLN:HG2	1:E:140:ASP:H	1.73	0.53
1:E:563:VAL:O	1:E:567:VAL:HG23	2.08	0.53
1:E:2496:PRO:HB3	1:E:2552:ARG:HD2	1.91	0.53
1:E:4161:ARG:HA	1:E:4164:LEU:HB3	1.90	0.53
1:E:4699:GLY:HA2	1:E:4702:ASP:HB2	1.91	0.53
1:G:33:LEU:HD21	1:G:51:PRO:HB3	1.91	0.53
1:G:674:PHE:HZ	2:H:71:ARG:NE	2.05	0.53
1:A:400:ALA:O	1:A:404:ILE:HG13	2.09	0.53
1:A:3841:VAL:HG12	1:A:3843:ASP:H	1.73	0.53
1:A:4928:LEU:O	1:A:4931:ILE:HG22	2.08	0.53
1:C:4928:LEU:O	1:C:4931:ILE:HG22	2.08	0.53
1:E:314:PHE:HE1	1:E:378:LEU:HD21	1.74	0.53
1:E:1079:LYS:NZ	1:E:1107:PRO:HB2	2.23	0.53
1:E:1830:VAL:HG12	1:E:1834:VAL:HA	1.91	0.53
1:E:2095:GLN:HG3	1:E:2127:GLN:OE1	2.08	0.53
1:E:2515:GLN:NE2	1:E:2608:MET:O	2.40	0.53
1:G:563:VAL:O	1:G:567:VAL:HG23	2.07	0.53
1:G:636:ASN:OD1	1:G:637:LEU:N	2.42	0.53
1:G:1205:GLY:HA3	1:G:1227:ALA:H	1.74	0.53
1:G:4666:VAL:HB	1:G:4667:PRO:HD3	1.91	0.53
1:A:314:PHE:HE1	1:A:378:LEU:HD21	1.73	0.53
1:A:1111:PRO:HG3	1:A:1609:PRO:HG3	1.89	0.53
1:A:1562:ILE:HG12	1:A:1563:GLN:O	2.09	0.53
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.09	0.53
1:A:4864:ASN:HB2	1:A:4902:GLU:HG3	1.89	0.53
1:C:638:ILE:HG22	1:C:639:ASN:N	2.24	0.53
1:C:688:LEU:HG	1:C:710:ASP:HB3	1.90	0.53
1:C:1079:LYS:NZ	1:C:1107:PRO:HB2	2.24	0.53
1:C:1477:GLY:HA2	1:C:1483:VAL:HA	1.90	0.53
1:C:2924:GLN:HB3	1:C:2928:LYS:HE2	1.91	0.53
1:E:45:ARG:NH2	1:E:139:GLU:OE2	2.42	0.53
1:E:559:GLY:O	1:E:563:VAL:HG23	2.08	0.53
1:E:1111:PRO:HG3	1:E:1609:PRO:HG3	1.90	0.53
1:E:1259:ARG:NH2	1:E:1599:MET:O	2.42	0.53
1:E:1805:GLU:OE1	1:E:1808:ARG:NE	2.35	0.53
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.91	0.53
1:E:4154:VAL:HG13	1:E:4154:VAL:O	2.08	0.53
1:G:400:ALA:O	1:G:404:ILE:HG13	2.09	0.53
1:G:717:ASP:CG	2:H:7:ILE:HA	2.29	0.53
1:G:1641:ILE:HG23	1:G:1643:GLU:O	2.09	0.53
1:G:4702:ASP:O	1:G:4705:VAL:HG12	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.23	0.53
1:A:597:HIS:NE2	1:A:598:LYS:NZ	2.57	0.53
1:A:4699:GLY:HA2	1:A:4702:ASP:HB2	1.89	0.53
1:A:4821:LYS:HD3	1:A:4947:GLN:NE2	2.24	0.53
2:B:25:HIS:CG	2:B:40:ARG:HE	2.27	0.53
1:C:1072:VAL:HB	1:C:1607:ARG:HH12	1.74	0.53
2:D:16:PRO:HD3	2:D:66:MET:O	2.09	0.53
1:G:597:HIS:NE2	1:G:598:LYS:NZ	2.57	0.53
1:G:650:VAL:O	1:G:777:PHE:N	2.41	0.53
1:G:2205:GLU:O	1:G:2209:GLU:HG2	2.09	0.53
1:G:2515:GLN:NE2	1:G:2608:MET:O	2.40	0.53
1:G:4004:ALA:HB3	1:G:4110:PHE:HZ	1.73	0.53
1:G:4217:PHE:HZ	1:G:4234:PHE:HA	1.74	0.53
1:A:636:ASN:ND2	2:B:35:LYS:HD3	2.24	0.53
1:A:674:PHE:HD1	2:B:40:ARG:HH12	1.52	0.53
1:A:1125:ASN:ND2	1:A:1130:GLN:O	2.27	0.53
1:A:1805:GLU:OE1	1:A:1808:ARG:NE	2.35	0.53
1:A:2158:CYS:SG	1:A:2184:ASN:ND2	2.82	0.53
1:A:2214:VAL:HG11	1:A:2229:VAL:HG21	1.91	0.53
1:C:110:ARG:HG2	1:C:117:TYR:CD1	2.44	0.53
1:C:2515:GLN:NE2	1:C:2608:MET:O	2.40	0.53
1:C:4965:SER:HA	1:C:4975:PHE:CD1	2.44	0.53
1:E:4004:ALA:HB3	1:E:4110:PHE:HZ	1.74	0.53
2:F:18:ARG:NH1	2:F:51:GLY:HA3	2.24	0.53
1:G:24:CYS:SG	1:G:26:ALA:HB2	2.49	0.53
1:G:2553:TYR:HD1	1:G:2556:LEU:HD12	1.74	0.53
1:G:3771:HIS:HD2	1:G:3812:VAL:HG22	1.72	0.53
1:G:3827:GLY:O	1:G:3831:SER:N	2.41	0.53
1:A:33:LEU:HD21	1:A:51:PRO:HB3	1.91	0.52
1:A:110:ARG:HG2	1:A:117:TYR:CD1	2.43	0.52
1:A:138:GLN:HG2	1:A:140:ASP:H	1.73	0.52
1:A:1294:PRO:HG3	1:A:1549:PHE:HE1	1.75	0.52
1:A:3916:ILE:HA	1:A:3919:THR:HG22	1.91	0.52
1:A:3935:TRP:HB2	1:C:76:ARG:HG3	1.89	0.52
1:A:4154:VAL:HG13	1:A:4154:VAL:O	2.09	0.52
1:C:669:ASP:HB3	1:C:788:LYS:HZ1	1.72	0.52
1:C:1516:ILE:O	1:C:1530:THR:OG1	2.26	0.52
1:C:1705:GLY:O	1:C:1708:ARG:HB3	2.09	0.52
1:C:1729:SER:O	1:C:1732:SER:OG	2.19	0.52
1:C:4666:VAL:HB	1:C:4667:PRO:HD3	1.90	0.52
1:E:116:MET:HA	1:E:139:GLU:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4720:VAL:HA	1:E:4723:LYS:NZ	2.23	0.52
2:F:25:HIS:CG	2:F:40:ARG:HE	2.27	0.52
1:G:1072:VAL:HB	1:G:1607:ARG:HH12	1.74	0.52
1:G:1079:LYS:NZ	1:G:1107:PRO:HB2	2.24	0.52
1:G:1259:ARG:NH2	1:G:1599:MET:O	2.42	0.52
1:G:3882:GLN:HB2	1:G:3957:VAL:HG22	1.91	0.52
1:G:3903:LEU:HD22	1:G:3915:ILE:HD12	1.91	0.52
1:G:4648:LEU:HA	1:G:4651:THR:HB	1.91	0.52
1:A:688:LEU:HG	1:A:710:ASP:HB3	1.90	0.52
1:A:1641:ILE:HG23	1:A:1643:GLU:O	2.09	0.52
2:B:18:ARG:NH1	2:B:51:GLY:HA3	2.24	0.52
1:C:24:CYS:SG	1:C:26:ALA:HB2	2.49	0.52
1:C:4821:LYS:HD3	1:C:4947:GLN:NE2	2.23	0.52
1:E:1046:LEU:O	1:E:1050:GLY:N	2.42	0.52
1:E:2158:CYS:SG	1:E:2184:ASN:ND2	2.82	0.52
1:E:4893:ALA:HB1	1:E:4896:GLY:HA2	1.91	0.52
1:G:37:LEU:HB2	1:G:200:TRP:HZ3	1.75	0.52
1:G:614:VAL:O	1:G:614:VAL:HG13	2.09	0.52
1:G:2377:LEU:HD12	1:G:2468:GLY:HA2	1.92	0.52
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.09	0.52
2:H:25:HIS:CG	2:H:40:ARG:HE	2.26	0.52
1:A:37:LEU:HB2	1:A:200:TRP:HZ3	1.74	0.52
1:A:739:ALA:O	1:A:741:GLU:N	2.42	0.52
1:A:1259:ARG:NH2	1:A:1599:MET:O	2.42	0.52
1:C:1046:LEU:O	1:C:1050:GLY:N	2.41	0.52
1:C:4154:VAL:HG13	1:C:4154:VAL:O	2.09	0.52
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.92	0.52
1:E:638:ILE:HB	1:E:1636:MET:HB2	1.91	0.52
1:E:857:ASP:O	1:E:991:ASN:ND2	2.42	0.52
1:E:4965:SER:HA	1:E:4975:PHE:CD1	2.44	0.52
1:G:1252:HIS:ND1	1:G:1253:PRO:HD2	2.24	0.52
1:G:1856:ASP:H	1:G:1858:ASP:N	2.07	0.52
1:A:1202:LEU:HD21	1:A:1204:LEU:HG	1.90	0.52
1:A:1240:LYS:O	1:A:1607:ARG:HA	2.09	0.52
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.92	0.52
1:A:4956:THR:O	1:A:4965:SER:N	2.43	0.52
1:C:33:LEU:HD21	1:C:51:PRO:HB3	1.91	0.52
1:C:404:ILE:HG12	1:C:478:PHE:HD2	1.74	0.52
1:C:590:LEU:HB2	1:C:599:VAL:HG11	1.92	0.52
1:C:617:ASN:O	1:C:621:ILE:HG12	2.10	0.52
1:C:1294:PRO:HG3	1:C:1549:PHE:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2205:GLU:O	1:C:2209:GLU:HG2	2.09	0.52
1:C:2922:LYS:C	1:C:2925:GLU:HB2	2.30	0.52
1:C:3768:SER:HA	1:C:3771:HIS:HB3	1.91	0.52
1:C:4810:ALA:O	1:C:4813:LEU:HG	2.10	0.52
1:E:617:ASN:O	1:E:621:ILE:HG12	2.10	0.52
1:E:1205:GLY:HA3	1:E:1227:ALA:H	1.75	0.52
1:E:3916:ILE:HA	1:E:3919:THR:HG22	1.92	0.52
1:G:138:GLN:HG2	1:G:140:ASP:H	1.74	0.52
1:G:617:ASN:O	1:G:621:ILE:HG12	2.10	0.52
1:G:2758:PHE:HD2	1:G:2809:ILE:HD13	1.73	0.52
1:G:3793:MET:O	1:G:3797:THR:HG23	2.09	0.52
1:A:1247:PRO:HA	1:A:1602:PRO:HA	1.92	0.52
1:A:1830:VAL:HG12	1:A:1834:VAL:HA	1.91	0.52
1:A:4221:VAL:O	1:A:4225:GLY:N	2.43	0.52
1:C:622:THR:O	1:C:626:LEU:N	2.42	0.52
1:C:857:ASP:O	1:C:991:ASN:ND2	2.43	0.52
1:C:1259:ARG:NH2	1:C:1599:MET:O	2.42	0.52
1:C:1688:HIS:O	1:C:1688:HIS:ND1	2.43	0.52
1:E:33:LEU:HD21	1:E:51:PRO:HB3	1.92	0.52
1:E:1141:ARG:HH12	1:E:1169:LEU:CD1	2.22	0.52
1:E:1562:ILE:HG12	1:E:1563:GLN:O	2.09	0.52
1:E:2755:ILE:HD13	1:E:2810:LYS:HG2	1.91	0.52
2:F:25:HIS:O	2:F:102:GLU:N	2.39	0.52
1:G:638:ILE:HG22	1:G:639:ASN:N	2.24	0.52
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.91	0.52
1:G:2059:LEU:HD22	1:G:2062:ARG:NH1	2.19	0.52
1:G:3841:VAL:HG12	1:G:3843:ASP:H	1.74	0.52
1:A:614:VAL:HG13	1:A:614:VAL:O	2.10	0.52
1:A:636:ASN:OD1	1:A:637:LEU:N	2.42	0.52
1:A:834:PRO:HD2	1:A:838:HIS:HE2	1.73	0.52
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	1.92	0.52
1:A:3877:ASP:O	1:A:3880:PHE:HB3	2.10	0.52
1:C:716:PHE:H	1:C:738:LEU:HD13	1.75	0.52
1:C:1240:LYS:O	1:C:1607:ARG:HA	2.09	0.52
1:C:1856:ASP:H	1:C:1858:ASP:N	2.08	0.52
1:C:3877:ASP:O	1:C:3880:PHE:HB3	2.10	0.52
1:C:4892:ARG:HH12	1:E:4898:GLY:H	1.57	0.52
1:E:1240:LYS:O	1:E:1607:ARG:HA	2.09	0.52
1:E:4146:LEU:O	1:E:4150:LEU:HG	2.09	0.52
1:G:1103:GLY:HA3	1:G:1123:VAL:HA	1.92	0.52
1:A:716:PHE:H	1:A:738:LEU:HD13	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1252:HIS:ND1	1:A:1253:PRO:HD2	2.24	0.52
1:A:1477:GLY:HA2	1:A:1483:VAL:HA	1.90	0.52
1:A:4965:SER:HA	1:A:4975:PHE:CD1	2.45	0.52
1:E:299:LEU:HD23	1:E:357:LEU:HD13	1.92	0.52
1:E:1210:SER:HA	1:E:1214:PHE:HB3	1.92	0.52
1:E:1294:PRO:HG3	1:E:1549:PHE:HE1	1.75	0.52
1:E:2205:GLU:O	1:E:2209:GLU:HG2	2.09	0.52
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.45	0.52
1:E:4172:GLU:HG2	1:E:4175:ARG:NH1	2.20	0.52
1:G:857:ASP:O	1:G:991:ASN:ND2	2.43	0.52
1:G:1292:SER:HB2	1:G:1602:PRO:HG3	1.91	0.52
1:G:1692:ALA:HA	1:G:1695:LEU:HD12	1.92	0.52
1:G:1931:LEU:CD2	1:G:1935:VAL:HG11	2.39	0.52
1:A:617:ASN:O	1:A:621:ILE:HG12	2.10	0.52
1:A:1079:LYS:NZ	1:A:1107:PRO:HB2	2.25	0.52
1:A:1103:GLY:HA3	1:A:1123:VAL:HA	1.92	0.52
1:A:1931:LEU:CD2	1:A:1935:VAL:HG11	2.40	0.52
1:A:2205:GLU:O	1:A:2209:GLU:HG2	2.09	0.52
1:A:2377:LEU:HD12	1:A:2468:GLY:HA2	1.92	0.52
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.45	0.52
1:C:1937:LEU:HD12	1:C:2116:LEU:HD12	1.91	0.52
1:C:4583:SER:N	1:C:4628:VAL:O	2.41	0.52
1:E:1072:VAL:HB	1:E:1607:ARG:HH12	1.74	0.52
1:E:1688:HIS:ND1	1:E:1688:HIS:O	2.43	0.52
1:E:1705:GLY:O	1:E:1708:ARG:HB3	2.09	0.52
1:E:2924:GLN:O	1:E:2928:LYS:CB	2.58	0.52
1:G:404:ILE:HG12	1:G:478:PHE:HD2	1.74	0.52
1:G:1805:GLU:OE1	1:G:1808:ARG:NE	2.35	0.52
1:G:3813:GLN:NE2	1:G:3890:LEU:O	2.40	0.52
1:G:4210:VAL:O	1:G:4214:LYS:N	2.39	0.52
1:A:638:ILE:HB	1:A:1636:MET:HB2	1.91	0.52
1:A:1072:VAL:HB	1:A:1607:ARG:HH12	1.75	0.52
1:A:1240:LYS:NZ	1:A:1242:LEU:O	2.43	0.52
1:A:2755:ILE:HD13	1:A:2810:LYS:HG2	1.92	0.52
1:A:4839:MET:HE3	1:G:4826:ILE:CG1	2.35	0.52
1:C:614:VAL:HG13	1:C:614:VAL:O	2.09	0.52
1:C:1240:LYS:NZ	1:C:1242:LEU:O	2.43	0.52
1:C:1247:PRO:HA	1:C:1602:PRO:HA	1.91	0.52
1:C:1658:ASP:OD1	1:C:1661:ARG:NH2	2.43	0.52
1:C:2158:CYS:SG	1:C:2184:ASN:ND2	2.82	0.52
1:C:2377:LEU:HD12	1:C:2468:GLY:HA2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:CYS:SG	1:E:26:ALA:HB2	2.49	0.52
1:E:252:VAL:HA	1:E:255:HIS:ND1	2.25	0.52
1:E:1252:HIS:ND1	1:E:1253:PRO:HD2	2.25	0.52
1:E:1641:ILE:HG23	1:E:1643:GLU:O	2.09	0.52
1:E:1931:LEU:CD2	1:E:1935:VAL:HG11	2.40	0.52
1:E:2214:VAL:HG11	1:E:2229:VAL:HG21	1.92	0.52
1:E:2377:LEU:HD12	1:E:2468:GLY:HA2	1.92	0.52
1:E:4640:GLU:HB3	1:E:4641:PRO:HD3	1.92	0.52
1:E:4795:TYR:O	1:E:4812:HIS:HE1	1.92	0.52
1:G:233:ILE:HD12	1:G:242:ARG:HB3	1.92	0.52
1:G:299:LEU:HD23	1:G:357:LEU:HD13	1.92	0.52
1:G:921:ASN:O	1:G:925:SER:N	2.26	0.52
1:G:4039:MET:HG3	1:G:4040:ILE:N	2.25	0.52
1:G:4150:LEU:O	1:G:4154:VAL:HG12	2.09	0.52
1:G:4583:SER:N	1:G:4628:VAL:O	2.41	0.52
1:A:3985:LEU:O	1:A:3988:ALA:HB3	2.10	0.52
1:C:4844:LEU:O	1:C:4848:VAL:HG23	2.10	0.52
1:E:3877:ASP:O	1:E:3880:PHE:HB3	2.09	0.52
1:E:4651:THR:HG23	1:E:4799:SER:HB3	1.90	0.52
1:G:252:VAL:HA	1:G:255:HIS:ND1	2.25	0.52
1:G:265:LEU:HD22	1:G:309:THR:HG23	1.92	0.52
1:G:1294:PRO:HG3	1:G:1549:PHE:HE1	1.75	0.52
1:G:1833:SER:O	1:G:1835:GLU:N	2.42	0.52
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.45	0.52
1:G:4077:PHE:CZ	1:G:4125:PHE:HA	2.44	0.52
1:A:828:GLU:O	1:A:840:VAL:HG23	2.11	0.51
1:A:4651:THR:HG23	1:A:4799:SER:HB3	1.92	0.51
1:A:4795:TYR:O	1:A:4812:HIS:HE1	1.93	0.51
1:C:314:PHE:HE1	1:C:378:LEU:HD21	1.74	0.51
1:C:523:TYR:CE1	1:C:560:ILE:HG12	2.45	0.51
1:C:597:HIS:NE2	1:C:598:LYS:NZ	2.57	0.51
1:C:793:LEU:HB3	1:C:812:HIS:HB2	1.91	0.51
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.45	0.51
1:C:4770:SER:O	1:C:4772:ASP:N	2.34	0.51
1:C:4956:THR:O	1:C:4965:SER:N	2.43	0.51
1:E:233:ILE:HD12	1:E:242:ARG:HB3	1.92	0.51
1:E:404:ILE:HG12	1:E:478:PHE:HD2	1.75	0.51
1:E:3768:SER:HA	1:E:3771:HIS:HB3	1.91	0.51
1:G:590:LEU:HB2	1:G:599:VAL:HG11	1.92	0.51
1:G:793:LEU:HB3	1:G:812:HIS:HB2	1.91	0.51
1:G:1734:TYR:OH	1:G:1948:ASP:OD1	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2922:LYS:O	1:G:2925:GLU:HB2	2.10	0.51
1:A:590:LEU:HB2	1:A:599:VAL:HG11	1.92	0.51
1:A:622:THR:HG21	1:A:1681:VAL:HG13	1.93	0.51
1:A:622:THR:O	1:A:626:LEU:N	2.42	0.51
1:A:1205:GLY:HA3	1:A:1227:ALA:H	1.75	0.51
1:A:2059:LEU:HD22	1:A:2062:ARG:NH1	2.18	0.51
1:A:3767:GLN:OE1	1:A:3809:ASN:ND2	2.34	0.51
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.91	0.51
1:C:2755:ILE:HD13	1:C:2810:LYS:HG2	1.93	0.51
1:E:400:ALA:O	1:E:404:ILE:HG13	2.09	0.51
1:E:597:HIS:NE2	1:E:598:LYS:NZ	2.57	0.51
1:E:614:VAL:O	1:E:614:VAL:HG13	2.10	0.51
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.08	0.51
1:G:1240:LYS:NZ	1:G:1242:LEU:HB2	2.25	0.51
1:G:2556:LEU:HD23	1:G:2559:LEU:HD12	1.91	0.51
1:G:3750:GLU:O	1:G:3754:GLU:N	2.43	0.51
1:G:4031:LEU:HD23	1:G:4153:HIS:CD2	2.45	0.51
1:A:255:HIS:HB3	1:A:257:ARG:HG2	1.93	0.51
1:A:407:THR:HA	1:A:410:LEU:HG	1.92	0.51
1:A:4146:LEU:O	1:A:4150:LEU:HG	2.09	0.51
1:C:252:VAL:HG23	1:C:257:ARG:NE	2.26	0.51
1:C:638:ILE:HB	1:C:1636:MET:HB2	1.90	0.51
1:C:4004:ALA:HB3	1:C:4110:PHE:HZ	1.75	0.51
1:C:4146:LEU:O	1:C:4150:LEU:HG	2.10	0.51
1:E:675:LEU:O	1:E:676:THR:OG1	2.27	0.51
1:E:1103:GLY:HA3	1:E:1123:VAL:HA	1.92	0.51
1:E:2358:ILE:HG21	1:G:195:PHE:HE2	1.75	0.51
1:E:3698:LEU:O	1:E:3702:VAL:HG23	2.10	0.51
1:E:3729:MET:HE2	1:E:3770:LEU:HD13	1.91	0.51
1:G:1240:LYS:NZ	1:G:1242:LEU:O	2.43	0.51
1:G:4150:LEU:HB3	1:G:4160:LEU:HD21	1.92	0.51
2:H:16:PRO:HD3	2:H:66:MET:O	2.10	0.51
1:A:2121:PHE:CD1	1:A:3701:LEU:HD12	2.46	0.51
1:A:4844:LEU:O	1:A:4848:VAL:HG23	2.10	0.51
1:C:407:THR:HA	1:C:410:LEU:HG	1.93	0.51
1:C:3750:GLU:O	1:C:3754:GLU:N	2.43	0.51
1:C:3905:THR:HG23	1:C:3907:THR:HG23	1.91	0.51
1:C:4177:TYR:HA	1:C:4199:GLU:OE2	2.10	0.51
1:C:4795:TYR:O	1:C:4812:HIS:HE1	1.93	0.51
1:C:4826:ILE:HG12	1:E:4839:MET:HE3	1.93	0.51
1:E:37:LEU:HB2	1:E:200:TRP:HZ3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4782:VAL:O	1:E:4785:THR:OG1	2.21	0.51
1:E:4798:MET:SD	1:E:4801:LEU:HD12	2.50	0.51
1:G:1202:LEU:HD21	1:G:1204:LEU:HG	1.92	0.51
1:G:3670:GLU:O	1:G:3674:ILE:HG12	2.11	0.51
1:G:4645:CYS:O	1:G:4649:LEU:N	2.39	0.51
1:A:233:ILE:HD12	1:A:242:ARG:HB3	1.92	0.51
1:A:1856:ASP:H	1:A:1858:ASP:N	2.07	0.51
1:A:2358:ILE:HG21	1:C:195:PHE:HE2	1.76	0.51
1:A:3727:ASP:O	1:A:3730:ALA:HB3	2.11	0.51
2:B:25:HIS:O	2:B:102:GLU:N	2.38	0.51
2:B:27:THR:HA	2:B:38:SER:HA	1.92	0.51
2:B:58:GLY:HA3	2:B:76:ILE:HG23	1.92	0.51
1:C:1205:GLY:HA3	1:C:1227:ALA:CB	2.40	0.51
1:C:1931:LEU:CD2	1:C:1935:VAL:HG11	2.40	0.51
1:C:3698:LEU:O	1:C:3702:VAL:HG23	2.10	0.51
1:C:4849:TYR:HA	1:C:4852:THR:HG22	1.92	0.51
1:E:523:TYR:CE1	1:E:560:ILE:HG12	2.46	0.51
1:E:1240:LYS:NZ	1:E:1242:LEU:HB2	2.25	0.51
1:E:1658:ASP:OD1	1:E:1661:ARG:NH2	2.43	0.51
1:E:1692:ALA:HA	1:E:1695:LEU:HD12	1.92	0.51
1:E:1708:ARG:HH11	1:E:1712:TYR:HE2	1.57	0.51
1:E:1833:SER:O	1:E:1835:GLU:N	2.42	0.51
1:E:2121:PHE:CD1	1:E:3701:LEU:HD12	2.46	0.51
1:E:2495:VAL:HA	1:E:2498:HIS:HD2	1.76	0.51
1:E:4177:TYR:HA	1:E:4199:GLU:OE2	2.10	0.51
1:G:559:GLY:O	1:G:563:VAL:HG23	2.10	0.51
1:G:1688:HIS:ND1	1:G:1688:HIS:O	2.44	0.51
1:A:793:LEU:HB3	1:A:812:HIS:HB2	1.91	0.51
1:A:2305:CYS:HB2	1:A:2325:PRO:HG2	1.93	0.51
1:A:3729:MET:HE2	1:A:3770:LEU:HD13	1.92	0.51
1:C:1202:LEU:HD21	1:C:1204:LEU:HG	1.92	0.51
1:C:1210:SER:HA	1:C:1214:PHE:HB3	1.93	0.51
1:C:1708:ARG:HH11	1:C:1712:TYR:HE2	1.58	0.51
1:C:2553:TYR:HD1	1:C:2556:LEU:HD12	1.76	0.51
1:E:102:LEU:HB2	1:E:105:HIS:HD2	1.72	0.51
1:E:636:ASN:OD1	1:E:637:LEU:N	2.43	0.51
1:E:1247:PRO:HA	1:E:1602:PRO:HA	1.91	0.51
1:E:2244:ARG:HH11	1:E:2248:ARG:HH21	1.58	0.51
1:E:4107:GLU:HA	1:E:4110:PHE:HB3	1.93	0.51
1:E:4844:LEU:O	1:E:4848:VAL:HG23	2.11	0.51
1:G:638:ILE:HB	1:G:1636:MET:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1210:SER:HA	1:G:1214:PHE:HB3	1.93	0.51
1:G:4146:LEU:O	1:G:4150:LEU:HG	2.09	0.51
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.46	0.51
1:A:132:ALA:HB1	1:A:193:ALA:O	2.11	0.51
1:A:4580:TYR:HB2	1:A:4631:PHE:HD1	1.76	0.51
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.46	0.51
1:C:173:SER:O	1:C:177:GLU:HA	2.11	0.51
1:C:1115:LEU:HD21	1:C:1123:VAL:HG11	1.93	0.51
1:C:1962:ALA:O	1:C:1966:VAL:HG23	2.11	0.51
1:C:3729:MET:HE2	1:C:3770:LEU:HD13	1.92	0.51
2:D:58:GLY:HA3	2:D:76:ILE:HG23	1.92	0.51
1:E:1240:LYS:NZ	1:E:1242:LEU:O	2.43	0.51
2:F:16:PRO:HD3	2:F:66:MET:O	2.09	0.51
1:G:255:HIS:HB3	1:G:257:ARG:HG2	1.93	0.51
1:A:265:LEU:HD22	1:A:309:THR:HG23	1.93	0.51
1:A:299:LEU:HD23	1:A:357:LEU:HD13	1.92	0.51
1:A:523:TYR:CE1	1:A:560:ILE:HG12	2.45	0.51
1:A:1163:THR:HG22	1:A:1168:VAL:HA	1.93	0.51
1:A:1240:LYS:NZ	1:A:1242:LEU:HB2	2.25	0.51
1:A:1658:ASP:OD1	1:A:1661:ARG:NH2	2.43	0.51
1:A:3750:GLU:O	1:A:3754:GLU:N	2.43	0.51
1:C:1780:PRO:HB2	2:D:42:ARG:NH2	2.25	0.51
1:C:3727:ASP:O	1:C:3730:ALA:HB3	2.11	0.51
1:C:3839:CYS:SG	1:C:3840:SER:N	2.84	0.51
1:C:3935:TRP:O	1:E:80:GLU:OE2	2.28	0.51
1:C:4107:GLU:HA	1:C:4110:PHE:HB3	1.93	0.51
1:C:4651:THR:HG23	1:C:4799:SER:HB3	1.92	0.51
1:C:4892:ARG:HH22	1:E:4920:PHE:HD2	1.57	0.51
1:E:590:LEU:HB2	1:E:599:VAL:HG11	1.93	0.51
1:G:625:LEU:HB3	1:G:632:LEU:HD23	1.93	0.51
1:G:2755:ILE:HD13	1:G:2810:LYS:HG2	1.92	0.51
1:G:4241:THR:O	1:G:4244:GLU:HB3	2.10	0.51
1:G:4665:LYS:O	1:G:4669:VAL:N	2.40	0.51
1:A:252:VAL:HG23	1:A:257:ARG:NE	2.25	0.51
1:A:252:VAL:HA	1:A:255:HIS:ND1	2.25	0.51
1:A:404:ILE:HG12	1:A:478:PHE:HD2	1.75	0.51
1:A:4004:ALA:HB3	1:A:4110:PHE:HZ	1.74	0.51
1:A:4905:ALA:N	1:A:4906:GLY:HA3	2.26	0.51
1:C:37:LEU:HB2	1:C:200:TRP:HZ3	1.75	0.51
1:C:265:LEU:HD22	1:C:309:THR:HG23	1.93	0.51
1:C:1079:LYS:HZ2	1:C:1107:PRO:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1103:GLY:HA3	1:C:1123:VAL:HA	1.92	0.51
1:C:1240:LYS:HZ3	1:C:1242:LEU:HB2	1.76	0.51
1:E:132:ALA:HB1	1:E:193:ALA:O	2.11	0.51
1:E:793:LEU:HB3	1:E:812:HIS:HB2	1.91	0.51
1:E:921:ASN:O	1:E:925:SER:N	2.26	0.51
1:E:1115:LEU:HD21	1:E:1123:VAL:HG11	1.93	0.51
1:E:1202:LEU:HD21	1:E:1204:LEU:HG	1.92	0.51
1:E:1962:ALA:O	1:E:1966:VAL:HG23	2.11	0.51
1:G:264:PRO:O	1:G:266:ARG:N	2.44	0.51
1:G:523:TYR:CE1	1:G:560:ILE:HG12	2.46	0.51
1:G:1658:ASP:OD1	1:G:1661:ARG:NH2	2.43	0.51
1:G:3847:PHE:HE1	1:G:3946:GLN:HG2	1.75	0.51
1:G:4905:ALA:N	1:G:4906:GLY:HA3	2.26	0.51
1:A:638:ILE:HG22	1:A:639:ASN:N	2.25	0.51
1:A:1833:SER:O	1:A:1835:GLU:N	2.41	0.51
1:C:255:HIS:HB3	1:C:257:ARG:HG2	1.93	0.51
1:C:276:TRP:CD1	1:C:318:VAL:HG23	2.46	0.51
1:C:1252:HIS:ND1	1:C:1253:PRO:HD2	2.25	0.51
1:C:2059:LEU:HD22	1:C:2062:ARG:NH1	2.18	0.51
1:E:1856:ASP:H	1:E:1858:ASP:N	2.08	0.51
1:E:2254:LEU:O	1:E:2258:LEU:HG	2.11	0.51
1:E:2819:TRP:CH2	1:E:2881:ASN:HB2	2.46	0.51
1:E:3750:GLU:O	1:E:3754:GLU:N	2.43	0.51
1:E:4822:THR:O	1:E:4825:THR:HB	2.11	0.51
1:G:173:SER:O	1:G:177:GLU:HA	2.11	0.51
1:G:716:PHE:H	1:G:738:LEU:HD13	1.74	0.51
2:H:14:THR:HG22	2:H:106:LEU:HD12	1.93	0.51
1:A:1077:ALA:HB2	1:A:1190:PRO:HG2	1.94	0.50
1:A:2553:TYR:HD1	1:A:2556:LEU:HD12	1.76	0.50
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.91	0.50
1:A:4151:SER:HA	1:A:4160:LEU:HD21	1.94	0.50
1:C:252:VAL:HA	1:C:255:HIS:ND1	2.25	0.50
1:C:299:LEU:HD23	1:C:357:LEU:HD13	1.92	0.50
1:C:828:GLU:O	1:C:840:VAL:HG23	2.10	0.50
1:C:1240:LYS:NZ	1:C:1242:LEU:HB2	2.26	0.50
1:C:1679:ASN:O	1:C:1683:HIS:ND1	2.41	0.50
1:C:4580:TYR:HB2	1:C:4631:PHE:HD1	1.76	0.50
1:C:4721:LYS:HD3	1:C:4741:LEU:HB3	1.93	0.50
1:C:4905:ALA:N	1:C:4906:GLY:HA3	2.25	0.50
1:E:622:THR:HG21	1:E:1681:VAL:HG13	1.94	0.50
1:E:1810:LYS:HD2	1:E:1813:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2553:TYR:HD1	1:E:2556:LEU:HD12	1.76	0.50
1:E:3839:CYS:SG	1:E:3840:SER:N	2.84	0.50
2:F:27:THR:HA	2:F:38:SER:HA	1.93	0.50
1:G:252:VAL:HG23	1:G:257:ARG:NE	2.25	0.50
1:G:626:LEU:HB2	1:G:627:PRO:HD3	1.93	0.50
1:G:1115:LEU:HD21	1:G:1123:VAL:HG11	1.93	0.50
1:G:1247:PRO:HA	1:G:1602:PRO:HA	1.91	0.50
1:G:1810:LYS:HD2	1:G:1813:ARG:HH22	1.76	0.50
1:G:2116:LEU:O	1:G:2120:MET:HG3	2.10	0.50
1:G:2819:TRP:CH2	1:G:2881:ASN:HB2	2.47	0.50
1:G:2890:LYS:HE3	1:G:2894:LEU:HD11	1.93	0.50
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.44	0.50
1:A:2819:TRP:CH2	1:A:2881:ASN:HB2	2.46	0.50
1:A:3753:PHE:O	1:A:3757:GLU:N	2.44	0.50
1:A:4177:TYR:HA	1:A:4199:GLU:OE2	2.10	0.50
1:A:4676:GLU:O	1:A:4680:LYS:HG3	2.11	0.50
1:C:1768:THR:O	1:C:1769:THR:OG1	2.22	0.50
1:C:2062:ARG:O	1:C:2065:SER:OG	2.22	0.50
1:C:2254:LEU:O	1:C:2258:LEU:HG	2.11	0.50
1:E:1735:ILE:CD1	1:E:1771:LEU:HD12	2.42	0.50
1:E:3935:TRP:CB	1:G:76:ARG:HG3	2.41	0.50
2:F:58:GLY:HA3	2:F:76:ILE:HG23	1.92	0.50
1:G:394:GLN:HB3	1:G:397:GLU:HG2	1.93	0.50
1:G:588:SER:O	1:G:592:LYS:HG3	2.12	0.50
1:G:3835:LEU:O	1:G:3839:CYS:N	2.43	0.50
1:G:4221:VAL:O	1:G:4225:GLY:N	2.44	0.50
1:G:4876:CYS:HA	1:G:4882:CYS:HB3	1.93	0.50
1:A:173:SER:O	1:A:177:GLU:HA	2.11	0.50
1:A:3768:SER:HA	1:A:3771:HIS:HB3	1.91	0.50
1:C:1692:ALA:HA	1:C:1695:LEU:HD12	1.92	0.50
1:C:2214:VAL:HG11	1:C:2229:VAL:HG21	1.92	0.50
1:C:2495:VAL:HA	1:C:2498:HIS:HD2	1.76	0.50
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.44	0.50
1:C:3835:LEU:HD22	1:C:3884:LEU:CD1	2.41	0.50
1:C:3916:ILE:HA	1:C:3919:THR:HG22	1.93	0.50
1:E:173:SER:O	1:E:177:GLU:HA	2.11	0.50
1:E:252:VAL:HG23	1:E:257:ARG:NE	2.26	0.50
1:G:1029:GLU:HA	1:G:1032:LYS:HB2	1.93	0.50
1:G:1253:PRO:O	1:G:1254:HIS:HB2	2.11	0.50
1:G:4578:LEU:HG	1:G:4578:LEU:O	2.12	0.50
1:A:394:GLN:HB3	1:A:397:GLU:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:588:SER:O	1:A:592:LYS:HG3	2.11	0.50
1:A:1166:GLY:HA3	1:A:1216:ILE:HD12	1.93	0.50
1:A:1962:ALA:O	1:A:1966:VAL:HG23	2.11	0.50
1:A:4573:ILE:O	1:A:4577:LEU:HB2	2.11	0.50
1:C:622:THR:HG21	1:C:1681:VAL:HG13	1.93	0.50
1:C:716:PHE:N	1:C:738:LEU:HD13	2.27	0.50
1:E:218:HIS:HE1	1:E:392:ARG:HB2	1.76	0.50
1:E:1163:THR:HG22	1:E:1168:VAL:HA	1.93	0.50
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.45	0.50
1:E:3774:GLY:HA2	1:E:3815:LYS:NZ	2.26	0.50
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.46	0.50
1:G:132:ALA:HB1	1:G:193:ALA:O	2.11	0.50
1:G:622:THR:HG21	1:G:1681:VAL:HG13	1.93	0.50
1:G:828:GLU:O	1:G:840:VAL:HG23	2.11	0.50
1:G:1163:THR:HG22	1:G:1168:VAL:HA	1.93	0.50
1:G:5013:MET:O	1:G:5017:ARG:N	2.40	0.50
1:A:276:TRP:CD1	1:A:318:VAL:HG23	2.47	0.50
1:A:1253:PRO:O	1:A:1254:HIS:HB2	2.12	0.50
1:A:1705:GLY:O	1:A:1708:ARG:HB3	2.11	0.50
1:A:3698:LEU:O	1:A:3702:VAL:HG23	2.10	0.50
1:A:4583:SER:N	1:A:4628:VAL:O	2.41	0.50
1:C:102:LEU:HB2	1:C:105:HIS:HD2	1.72	0.50
1:C:218:HIS:HE1	1:C:392:ARG:HB2	1.76	0.50
1:C:492:ASP:OD1	1:C:546:TRP:NE1	2.43	0.50
1:C:588:SER:O	1:C:592:LYS:HG3	2.11	0.50
1:C:1514:LEU:HD12	1:C:1514:LEU:N	2.26	0.50
1:C:2121:PHE:CD1	1:C:3701:LEU:HD12	2.46	0.50
1:C:2819:TRP:CH2	1:C:2881:ASN:HB2	2.47	0.50
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.46	0.50
1:E:716:PHE:H	1:E:738:LEU:HD13	1.75	0.50
1:E:3727:ASP:O	1:E:3730:ALA:HB3	2.11	0.50
1:E:3891:LEU:HB3	1:E:3899:PHE:HE2	1.77	0.50
1:E:4905:ALA:N	1:E:4906:GLY:HA3	2.26	0.50
1:G:110:ARG:HG2	1:G:117:TYR:CE1	2.47	0.50
1:A:716:PHE:N	1:A:738:LEU:HD13	2.27	0.50
1:A:1115:LEU:HD21	1:A:1123:VAL:HG11	1.94	0.50
1:A:1210:SER:HA	1:A:1214:PHE:HB3	1.94	0.50
1:A:1688:HIS:ND1	1:A:1688:HIS:O	2.44	0.50
1:A:3835:LEU:HD22	1:A:3884:LEU:CD1	2.42	0.50
1:A:3935:TRP:O	1:C:80:GLU:OE2	2.29	0.50
1:C:675:LEU:O	1:C:676:THR:OG1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1163:THR:HG22	1:C:1168:VAL:HA	1.93	0.50
1:C:3774:GLY:HA2	1:C:3815:LYS:NZ	2.26	0.50
1:C:3879:GLU:OE2	1:C:3883:ASP:OD2	2.30	0.50
1:C:3935:TRP:CB	1:E:76:ARG:HG3	2.42	0.50
1:C:4221:VAL:O	1:C:4225:GLY:N	2.44	0.50
1:E:42:PHE:HB2	1:E:403:MET:SD	2.52	0.50
1:E:265:LEU:HD22	1:E:309:THR:HG23	1.94	0.50
1:E:276:TRP:CD1	1:E:318:VAL:HG23	2.46	0.50
1:E:622:THR:O	1:E:626:LEU:N	2.42	0.50
1:E:828:GLU:O	1:E:840:VAL:HG23	2.10	0.50
1:E:4906:GLY:H	1:E:4910:GLU:HG3	1.76	0.50
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.94	0.50
1:G:622:THR:O	1:G:626:LEU:N	2.42	0.50
1:G:1679:ASN:O	1:G:1683:HIS:ND1	2.40	0.50
1:G:1962:ALA:O	1:G:1966:VAL:HG23	2.11	0.50
1:G:2254:LEU:O	1:G:2258:LEU:HG	2.11	0.50
1:G:4172:GLU:HG2	1:G:4175:ARG:HH12	1.76	0.50
1:G:4182:GLU:HB2	1:G:4983:HIS:CE1	2.47	0.50
1:G:4984:ASN:O	1:G:4985:LEU:HB3	2.11	0.50
1:A:118:LEU:HA	1:A:137:LEU:HD23	1.94	0.50
1:A:218:HIS:HE1	1:A:392:ARG:HB2	1.76	0.50
1:A:702:TRP:HD1	2:B:34:LYS:NZ	2.04	0.50
1:A:1828:ASP:HB3	1:A:1829:PRO:C	2.32	0.50
1:A:4836:GLN:O	1:A:4839:MET:HG2	2.11	0.50
1:C:3753:PHE:O	1:C:3757:GLU:N	2.44	0.50
1:C:4906:GLY:H	1:C:4910:GLU:HG3	1.77	0.50
1:E:625:LEU:HB3	1:E:632:LEU:HD23	1.94	0.50
1:E:716:PHE:N	1:E:738:LEU:HD13	2.27	0.50
1:E:1166:GLY:HA3	1:E:1216:ILE:HD12	1.94	0.50
1:E:1783:VAL:HG12	2:F:54:GLU:O	2.12	0.50
1:E:4221:VAL:O	1:E:4225:GLY:N	2.44	0.50
1:E:4676:GLU:O	1:E:4680:LYS:HG3	2.12	0.50
1:G:150:MET:HG2	1:G:171:LEU:HD23	1.94	0.50
1:G:702:TRP:CD1	2:H:34:LYS:NZ	2.79	0.50
1:G:2495:VAL:HA	1:G:2498:HIS:HD2	1.77	0.50
1:A:472:ARG:NE	1:A:532:GLY:O	2.45	0.50
1:A:764:VAL:O	1:A:764:VAL:HG12	2.12	0.50
1:A:1780:PRO:HB2	2:B:42:ARG:NH2	2.27	0.50
1:A:2095:GLN:HG3	1:A:2127:GLN:OE1	2.11	0.50
1:A:2254:LEU:O	1:A:2258:LEU:HG	2.12	0.50
1:A:4145:VAL:HG13	1:A:4194:TYR:HD2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4810:ALA:O	1:A:4813:LEU:HG	2.11	0.50
1:C:233:ILE:HD12	1:C:242:ARG:HB3	1.92	0.50
1:C:4676:GLU:O	1:C:4680:LYS:HG3	2.12	0.50
1:C:4905:ALA:H	1:C:4906:GLY:HA3	1.77	0.50
1:E:407:THR:HA	1:E:410:LEU:HG	1.93	0.50
1:E:588:SER:O	1:E:592:LYS:HG3	2.11	0.50
1:E:1029:GLU:HA	1:E:1032:LYS:HB2	1.94	0.50
1:E:1685:LEU:O	1:E:1689:VAL:HG12	2.12	0.50
1:E:2059:LEU:HD22	1:E:2062:ARG:NH1	2.18	0.50
1:E:2735:PHE:HD2	1:E:2891:LYS:HD2	1.77	0.50
1:G:1166:GLY:HA3	1:G:1216:ILE:HD12	1.94	0.50
1:G:3698:LEU:HB3	1:G:3773:ARG:HE	1.77	0.50
1:G:3727:ASP:O	1:G:3730:ALA:HB3	2.11	0.50
1:A:173:SER:HG	1:A:175:SER:HG	1.57	0.50
1:A:1685:LEU:O	1:A:1689:VAL:HG12	2.12	0.50
1:A:2517:PHE:O	1:A:2521:VAL:HG23	2.12	0.50
1:C:132:ALA:HB1	1:C:193:ALA:O	2.11	0.50
1:C:3985:LEU:O	1:C:3988:ALA:HB3	2.11	0.50
1:C:4979:THR:O	1:C:4984:ASN:N	2.30	0.50
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.94	0.50
1:E:255:HIS:HB3	1:E:257:ARG:HG2	1.93	0.50
1:E:3879:GLU:OE2	1:E:3883:ASP:OD2	2.30	0.50
1:G:1663:HIS:CE1	1:G:1667:LEU:HD11	2.47	0.50
1:G:1705:GLY:O	1:G:1708:ARG:HB3	2.11	0.50
1:G:2496:PRO:HB3	1:G:2552:ARG:HD2	1.92	0.50
1:G:4834:GLY:O	1:G:4837:LEU:HB3	2.12	0.50
1:A:626:LEU:HB2	1:A:627:PRO:HD3	1.93	0.49
1:A:1024:TYR:HB3	1:A:1032:LYS:HD3	1.94	0.49
1:A:1767:VAL:C	1:A:1768:THR:HG1	2.15	0.49
1:A:3774:GLY:HA2	1:A:3815:LYS:NZ	2.27	0.49
1:A:3879:GLU:OE2	1:A:3883:ASP:OD2	2.30	0.49
1:A:3891:LEU:HB3	1:A:3899:PHE:HE2	1.77	0.49
1:A:4107:GLU:HA	1:A:4110:PHE:HB3	1.93	0.49
1:C:472:ARG:NE	1:C:532:GLY:O	2.45	0.49
1:C:1457:TYR:C	1:C:1458:HIS:CG	2.86	0.49
1:C:1810:LYS:HD2	1:C:1813:ARG:HH22	1.76	0.49
1:C:1933:GLU:O	1:C:1936:LYS:HB2	2.12	0.49
1:C:3921:ASP:O	1:C:3924:LEU:HB2	2.12	0.49
1:E:626:LEU:HB2	1:E:627:PRO:HD3	1.93	0.49
1:E:2173:GLN:HG2	1:E:2174:GLU:N	2.19	0.49
1:E:3753:PHE:O	1:E:3757:GLU:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4892:ARG:HH22	1:G:4920:PHE:HD2	1.60	0.49
2:F:14:THR:HG22	2:F:106:LEU:HD12	1.94	0.49
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.30	0.49
1:G:2121:PHE:CD1	1:G:3701:LEU:HD12	2.46	0.49
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.45	0.49
1:G:4137:ARG:HD2	1:G:4177:TYR:CZ	2.45	0.49
1:G:4946:GLN:HA	1:G:4949:GLN:HB3	1.94	0.49
1:A:1810:LYS:HD2	1:A:1813:ARG:HH22	1.76	0.49
1:A:2214:VAL:HG11	1:A:2229:VAL:CG2	2.42	0.49
2:B:74:LEU:HD23	2:B:76:ILE:HD11	1.94	0.49
1:C:34:LYS:HB2	1:C:53:SER:HB2	1.94	0.49
1:C:702:TRP:HD1	2:D:34:LYS:NZ	2.04	0.49
1:C:1077:ALA:HB2	1:C:1190:PRO:HG2	1.94	0.49
1:C:1663:HIS:CE1	1:C:1667:LEU:HD11	2.47	0.49
1:E:764:VAL:O	1:E:764:VAL:HG12	2.12	0.49
1:E:1679:ASN:O	1:E:1683:HIS:ND1	2.41	0.49
1:E:1933:GLU:O	1:E:1936:LYS:HB2	2.13	0.49
1:E:2671:GLU:CB	1:E:2913:ALA:H	2.26	0.49
1:E:3835:LEU:HD22	1:E:3884:LEU:CD1	2.42	0.49
2:F:54:GLU:HG3	2:F:55:VAL:HG13	1.94	0.49
1:G:407:THR:HA	1:G:410:LEU:HG	1.93	0.49
1:G:1448:VAL:HG13	1:G:1554:VAL:HA	1.94	0.49
1:A:2890:LYS:HE3	1:A:2894:LEU:HD11	1.94	0.49
1:A:3905:THR:HG23	1:A:3907:THR:HG23	1.92	0.49
1:A:4849:TYR:HA	1:A:4852:THR:HG22	1.92	0.49
1:A:5006:GLN:O	1:A:5010:VAL:HG23	2.12	0.49
1:C:42:PHE:HB2	1:C:403:MET:SD	2.52	0.49
1:C:118:LEU:HA	1:C:137:LEU:HD23	1.94	0.49
1:C:119:SER:O	1:C:136:GLY:N	2.31	0.49
1:C:597:HIS:HB2	1:C:1665:HIS:CD2	2.48	0.49
1:C:1253:PRO:O	1:C:1254:HIS:HB2	2.12	0.49
2:D:27:THR:HA	2:D:38:SER:HA	1.93	0.49
1:E:150:MET:HG2	1:E:171:LEU:HD23	1.95	0.49
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.43	0.49
1:E:636:ASN:ND2	2:F:35:LYS:HD3	2.27	0.49
1:E:1663:HIS:CE1	1:E:1667:LEU:HD11	2.48	0.49
1:E:1767:VAL:C	1:E:1768:THR:HG1	2.15	0.49
1:E:2517:PHE:O	1:E:2521:VAL:HG23	2.13	0.49
1:E:2890:LYS:HE3	1:E:2894:LEU:HD11	1.94	0.49
1:G:2517:PHE:O	1:G:2521:VAL:HG23	2.13	0.49
1:G:3716:LEU:N	1:G:3789:GLU:OE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4842:GLY:O	1:G:4846:VAL:HG23	2.13	0.49
1:A:42:PHE:HB2	1:A:403:MET:SD	2.53	0.49
1:A:245:VAL:HG12	1:A:376:ALA:HB3	1.95	0.49
1:A:2173:GLN:OE1	1:A:2173:GLN:N	2.46	0.49
1:C:394:GLN:HB3	1:C:397:GLU:HG2	1.93	0.49
1:C:1029:GLU:HA	1:C:1032:LYS:HB2	1.93	0.49
1:C:1245:PHE:HD2	1:C:1290:ARG:HH11	1.61	0.49
1:C:2890:LYS:HE3	1:C:2894:LEU:HD11	1.94	0.49
1:C:4573:ILE:O	1:C:4577:LEU:HB2	2.11	0.49
1:E:1077:ALA:HB2	1:E:1190:PRO:HG2	1.95	0.49
1:E:1253:PRO:O	1:E:1254:HIS:HB2	2.12	0.49
1:G:516:LYS:HG3	1:G:517:GLU:N	2.27	0.49
1:G:2173:GLN:OE1	1:G:2173:GLN:N	2.45	0.49
1:A:1029:GLU:HA	1:A:1032:LYS:HB2	1.93	0.49
1:A:1457:TYR:C	1:A:1458:HIS:CG	2.86	0.49
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.46	0.49
1:A:4677:LEU:HA	1:A:4680:LYS:HD2	1.95	0.49
1:C:110:ARG:HG2	1:C:117:TYR:CE1	2.48	0.49
1:C:342:GLY:N	1:C:390:LEU:O	2.46	0.49
1:C:1685:LEU:O	1:C:1689:VAL:HG12	2.13	0.49
1:C:1767:VAL:C	1:C:1768:THR:HG1	2.16	0.49
1:C:4151:SER:HA	1:C:4160:LEU:HD21	1.94	0.49
1:C:4730:ASP:OD1	1:C:4731:ILE:N	2.46	0.49
1:E:597:HIS:HB2	1:E:1665:HIS:CD2	2.47	0.49
1:E:1245:PHE:HD2	1:E:1290:ARG:HH11	1.61	0.49
1:E:2173:GLN:OE1	1:E:2173:GLN:N	2.45	0.49
1:E:3905:THR:HG23	1:E:3907:THR:HG23	1.93	0.49
1:E:5006:GLN:O	1:E:5010:VAL:HG23	2.12	0.49
1:G:42:PHE:HB2	1:G:403:MET:SD	2.52	0.49
1:G:1762:LEU:HD12	1:G:1763:PRO:HD2	1.94	0.49
1:G:2125:HIS:CE1	1:G:3724:ALA:HB1	2.48	0.49
1:G:4905:ALA:H	1:G:4906:GLY:HA3	1.78	0.49
1:A:597:HIS:HB2	1:A:1665:HIS:CD2	2.48	0.49
1:A:639:ASN:ND2	1:A:676:THR:OG1	2.45	0.49
1:A:1933:GLU:O	1:A:1936:LYS:HB2	2.12	0.49
1:A:2420:HIS:ND1	1:A:2423:MET:SD	2.75	0.49
1:A:3662:ILE:O	1:A:3662:ILE:HG22	2.13	0.49
1:C:264:PRO:O	1:C:266:ARG:N	2.44	0.49
1:C:1024:TYR:HB3	1:C:1032:LYS:HD3	1.95	0.49
1:C:1556:PRO:HA	1:C:1561:VAL:HG23	1.93	0.49
1:C:1783:VAL:HG12	2:D:54:GLU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4642:ALA:O	1:C:4646:LEU:N	2.44	0.49
1:C:4677:LEU:HD23	1:C:4711:PHE:CE1	2.48	0.49
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	1.95	0.49
1:E:472:ARG:NE	1:E:532:GLY:O	2.46	0.49
1:E:1074:ILE:HA	1:E:1193:SER:HA	1.95	0.49
1:G:34:LYS:HB2	1:G:53:SER:HB2	1.94	0.49
1:G:245:VAL:HG12	1:G:376:ALA:HB3	1.95	0.49
1:G:472:ARG:NE	1:G:532:GLY:O	2.46	0.49
1:G:1141:ARG:NH1	1:G:1169:LEU:HD11	2.26	0.49
1:G:1685:LEU:O	1:G:1689:VAL:HG12	2.12	0.49
1:G:1933:GLU:O	1:G:1936:LYS:HB2	2.12	0.49
1:G:2244:ARG:HH11	1:G:2248:ARG:HH21	1.60	0.49
1:G:2883:HIS:HE1	1:G:2904:LEU:O	1.95	0.49
1:G:4567:LEU:HD12	1:G:4815:ASP:OD2	2.12	0.49
1:A:110:ARG:HG2	1:A:117:TYR:CE1	2.48	0.49
1:A:452:PHE:O	1:A:528:SER:OG	2.31	0.49
1:A:1245:PHE:HD2	1:A:1290:ARG:HH11	1.61	0.49
1:A:1734:TYR:OH	1:A:1948:ASP:OD1	2.19	0.49
1:A:2735:PHE:HD2	1:A:2891:LYS:HD2	1.78	0.49
1:A:3921:ASP:O	1:A:3924:LEU:HB2	2.12	0.49
1:A:4730:ASP:OD1	1:A:4731:ILE:N	2.45	0.49
1:A:4920:PHE:HD2	1:G:4892:ARG:HH22	1.61	0.49
2:B:49:MET:N	2:B:54:GLU:OE2	2.46	0.49
1:C:1828:ASP:HB3	1:C:1829:PRO:C	2.32	0.49
1:C:2095:GLN:HG3	1:C:2127:GLN:OE1	2.11	0.49
1:C:2735:PHE:HD2	1:C:2891:LYS:HD2	1.77	0.49
2:D:74:LEU:HD23	2:D:76:ILE:HD11	1.94	0.49
1:E:1277:TRP:HB2	1:E:1562:ILE:O	2.13	0.49
1:E:1712:TYR:CD2	1:E:1840:PRO:HB2	2.48	0.49
1:E:4573:ILE:O	1:E:4577:LEU:HB2	2.13	0.49
1:E:4574:ASN:ND2	1:E:4813:LEU:HD23	2.27	0.49
1:G:218:HIS:HE1	1:G:392:ARG:HB2	1.76	0.49
1:G:1457:TYR:C	1:G:1458:HIS:CG	2.86	0.49
1:G:1556:PRO:HA	1:G:1561:VAL:HG23	1.93	0.49
1:G:2173:GLN:HG2	1:G:2174:GLU:N	2.20	0.49
1:G:4031:LEU:HD11	1:G:4044:MET:SD	2.53	0.49
1:G:4843:LEU:O	1:G:4847:VAL:HG23	2.13	0.49
1:A:1735:ILE:CD1	1:A:1771:LEU:HD12	2.42	0.49
1:A:3839:CYS:SG	1:A:3840:SER:N	2.84	0.49
1:A:4906:GLY:H	1:A:4910:GLU:HG3	1.77	0.49
1:C:150:MET:HG2	1:C:171:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:245:VAL:HG12	1:C:376:ALA:HB3	1.95	0.49
1:C:636:ASN:OD1	1:C:637:LEU:N	2.43	0.49
1:C:1130:GLN:NE2	1:C:1132:TRP:HE1	2.11	0.49
1:C:3891:LEU:HB3	1:C:3899:PHE:HE2	1.77	0.49
1:E:516:LYS:HG3	1:E:517:GLU:N	2.27	0.49
1:E:1457:TYR:C	1:E:1458:HIS:CG	2.86	0.49
1:E:1739:THR:O	1:E:1742:THR:OG1	2.21	0.49
1:E:4055:VAL:HA	1:E:4058:ILE:HG12	1.95	0.49
1:E:4677:LEU:HA	1:E:4680:LYS:HD2	1.94	0.49
1:E:4721:LYS:HD3	1:E:4741:LEU:HB3	1.94	0.49
1:E:4905:ALA:H	1:E:4906:GLY:HA3	1.78	0.49
1:G:276:TRP:CD1	1:G:318:VAL:HG23	2.47	0.49
1:G:451:TYR:HD2	1:G:452:PHE:CE2	2.31	0.49
1:G:458:GLU:HG2	1:G:458:GLU:O	2.13	0.49
1:G:1077:ALA:HB2	1:G:1190:PRO:HG2	1.94	0.49
1:G:4027:LEU:O	1:G:4031:LEU:HD13	2.13	0.49
1:G:4666:VAL:O	1:G:4670:ILE:HG12	2.13	0.49
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.94	0.49
2:H:23:VAL:HG12	2:H:104:LEU:HD12	1.95	0.49
1:A:34:LYS:HB2	1:A:53:SER:HB2	1.93	0.49
1:A:625:LEU:HB3	1:A:632:LEU:HD23	1.94	0.49
1:A:636:ASN:HD21	2:B:35:LYS:HD3	1.78	0.49
1:A:1457:TYR:CZ	1:A:1459:GLN:NE2	2.81	0.49
1:A:2244:ARG:HH11	1:A:2248:ARG:HH21	1.59	0.49
1:A:2495:VAL:HA	1:A:2498:HIS:HD2	1.77	0.49
1:A:2671:GLU:CB	1:A:2913:ALA:H	2.26	0.49
1:A:4877:ASP:O	1:G:4581:LYS:CE	2.61	0.49
1:C:626:LEU:HB2	1:C:627:PRO:HD3	1.93	0.49
1:C:1166:GLY:HA3	1:C:1216:ILE:HD12	1.95	0.49
1:C:1448:VAL:HG13	1:C:1554:VAL:HA	1.94	0.49
1:C:2671:GLU:CB	1:C:2913:ALA:H	2.26	0.49
1:E:3985:LEU:O	1:E:3988:ALA:HB3	2.11	0.49
1:E:4242:ILE:O	1:E:4246:GLN:HG2	2.13	0.49
1:E:4888:TYR:OH	1:G:4898:GLY:HA3	2.13	0.49
1:G:1240:LYS:HZ3	1:G:1242:LEU:HB2	1.78	0.49
1:G:3835:LEU:HD21	1:G:3880:PHE:HE2	1.77	0.49
1:G:3927:GLN:NE2	1:G:3988:ALA:O	2.36	0.49
1:A:162:LYS:HB2	1:A:164:ARG:HH12	1.77	0.49
1:A:635:THR:OG1	1:A:1638:ALA:O	2.26	0.49
1:A:1074:ILE:HA	1:A:1193:SER:HA	1.95	0.49
1:A:1448:VAL:HG13	1:A:1554:VAL:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3996:PHE:CE2	1:A:4019:LEU:HD22	2.48	0.49
1:A:4886:HIS:O	1:A:4891:VAL:N	2.42	0.49
1:A:4905:ALA:H	1:A:4906:GLY:HA3	1.78	0.49
1:C:1084:GLN:NE2	1:C:1185:GLY:O	2.46	0.49
1:C:1712:TYR:CD2	1:C:1840:PRO:HB2	2.48	0.49
1:C:4581:LYS:CE	1:E:4877:ASP:O	2.61	0.49
1:E:312:THR:O	1:E:314:PHE:N	2.41	0.49
1:E:394:GLN:HB3	1:E:397:GLU:HG2	1.94	0.49
1:E:1780:PRO:HB2	2:F:42:ARG:NH2	2.28	0.49
1:E:3921:ASP:O	1:E:3924:LEU:HB2	2.12	0.49
1:E:4727:LYS:NZ	1:E:4728:HIS:CE1	2.80	0.49
1:G:312:THR:O	1:G:314:PHE:N	2.41	0.49
1:G:1073:ARG:C	1:G:1074:ILE:HG13	2.33	0.49
1:G:1093:GLU:HA	1:G:1148:VAL:HG13	1.95	0.49
1:G:3713:LYS:O	1:G:3715:LYS:N	2.46	0.49
1:G:4217:PHE:CZ	1:G:4234:PHE:HA	2.48	0.49
1:G:4230:LYS:NZ	1:G:4960:ILE:O	2.45	0.49
1:A:516:LYS:HG3	1:A:517:GLU:N	2.28	0.48
1:C:674:PHE:HD1	2:D:40:ARG:HH12	1.50	0.48
1:C:1074:ILE:HA	1:C:1193:SER:HA	1.95	0.48
1:C:1735:ILE:CD1	1:C:1771:LEU:HD12	2.42	0.48
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.46	0.48
1:C:3713:LYS:O	1:C:3715:LYS:N	2.46	0.48
1:C:4141:PHE:CE1	1:C:4178:LEU:HA	2.48	0.48
1:C:4145:VAL:HG13	1:C:4194:TYR:HD2	1.77	0.48
1:E:459:LEU:HD11	1:E:463:GLU:OE1	2.12	0.48
1:E:4181:ILE:HG12	1:E:4195:PHE:CE1	2.48	0.48
1:E:4887:MET:HA	1:E:4891:VAL:HG23	1.95	0.48
1:G:1245:PHE:HD2	1:G:1290:ARG:HH11	1.61	0.48
1:G:1780:PRO:HB2	2:H:42:ARG:NH2	2.28	0.48
1:G:4034:ASN:HD21	1:G:4040:ILE:CG2	2.26	0.48
1:A:473:ASN:O	1:A:477:LEU:HG	2.13	0.48
1:A:1663:HIS:CE1	1:A:1667:LEU:HD11	2.47	0.48
1:A:3713:LYS:O	1:A:3715:LYS:N	2.46	0.48
1:A:4721:LYS:HD3	1:A:4741:LEU:HB3	1.95	0.48
1:C:458:GLU:O	1:C:458:GLU:HG2	2.13	0.48
1:C:473:ASN:O	1:C:477:LEU:HG	2.13	0.48
1:C:764:VAL:O	1:C:764:VAL:HG12	2.12	0.48
1:C:1277:TRP:HB2	1:C:1562:ILE:O	2.13	0.48
1:E:1556:PRO:HA	1:E:1561:VAL:HG23	1.94	0.48
1:E:3713:LYS:O	1:E:3715:LYS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1712:TYR:CD2	1:G:1840:PRO:HB2	2.48	0.48
1:G:1767:VAL:C	1:G:1768:THR:HG1	2.16	0.48
1:G:1828:ASP:HB3	1:G:1829:PRO:C	2.33	0.48
2:H:38:SER:HB3	2:H:41:ASP:CG	2.33	0.48
1:A:264:PRO:O	1:A:266:ARG:N	2.43	0.48
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	1.96	0.48
1:A:1712:TYR:CD2	1:A:1840:PRO:HB2	2.48	0.48
1:A:3935:TRP:CB	1:C:76:ARG:HG3	2.44	0.48
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	1.95	0.48
1:A:4826:ILE:O	1:A:4829:SER:HB2	2.13	0.48
2:B:54:GLU:HG3	2:B:55:VAL:HG13	1.94	0.48
1:C:452:PHE:O	1:C:528:SER:OG	2.31	0.48
1:C:5006:GLN:O	1:C:5010:VAL:HG23	2.13	0.48
2:D:54:GLU:HG3	2:D:55:VAL:HG13	1.94	0.48
1:E:34:LYS:HB2	1:E:53:SER:HB2	1.94	0.48
1:E:473:ASN:O	1:E:477:LEU:HG	2.13	0.48
1:E:1295:VAL:O	1:E:1547:LYS:HA	2.13	0.48
1:E:1448:VAL:HG13	1:E:1554:VAL:HA	1.93	0.48
1:E:2214:VAL:HG11	1:E:2229:VAL:CG2	2.44	0.48
2:F:49:MET:N	2:F:54:GLU:OE2	2.46	0.48
1:G:1074:ILE:HA	1:G:1193:SER:HA	1.95	0.48
1:G:2214:VAL:HG11	1:G:2229:VAL:CG2	2.44	0.48
1:A:195:PHE:HE2	1:G:2358:ILE:CG2	2.27	0.48
1:A:1079:LYS:HZ2	1:A:1107:PRO:HB2	1.78	0.48
1:A:4234:PHE:CZ	1:A:4988:TYR:HB2	2.49	0.48
1:A:4642:ALA:O	1:A:4646:LEU:N	2.44	0.48
1:A:4677:LEU:HD23	1:A:4711:PHE:CE1	2.49	0.48
1:C:1830:VAL:HG13	1:C:1837:GLN:HB3	1.95	0.48
1:C:2214:VAL:HG11	1:C:2229:VAL:CG2	2.43	0.48
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.13	0.48
1:C:4677:LEU:HA	1:C:4680:LYS:HD2	1.94	0.48
1:E:235:ALA:HB2	1:E:257:ARG:HD3	1.95	0.48
1:E:245:VAL:HG12	1:E:376:ALA:HB3	1.95	0.48
1:E:452:PHE:O	1:E:528:SER:OG	2.31	0.48
1:E:4141:PHE:CE1	1:E:4178:LEU:HA	2.48	0.48
1:E:4730:ASP:OD1	1:E:4731:ILE:N	2.46	0.48
1:G:597:HIS:HB2	1:G:1665:HIS:CD2	2.48	0.48
1:G:1024:TYR:HB3	1:G:1032:LYS:HD3	1.94	0.48
1:G:2754:PHE:CZ	1:G:2930:LEU:HD23	2.48	0.48
1:A:458:GLU:HG2	1:A:458:GLU:O	2.13	0.48
1:A:1093:GLU:HA	1:A:1148:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4039:MET:HA	1:A:4042:ARG:HH11	1.78	0.48
1:A:4839:MET:HB3	1:G:4823:LEU:CD1	2.44	0.48
2:B:14:THR:HG22	2:B:106:LEU:HD12	1.95	0.48
1:C:1293:LEU:HD23	1:C:1584:ARG:CG	2.44	0.48
1:C:4702:ASP:OD1	1:C:4778:TRP:NE1	2.31	0.48
2:D:14:THR:HG22	2:D:106:LEU:HD12	1.95	0.48
2:D:25:HIS:O	2:D:102:GLU:N	2.39	0.48
1:E:1073:ARG:C	1:E:1074:ILE:HG13	2.34	0.48
1:E:1112:ASP:OD1	1:E:1606:SER:HB3	2.14	0.48
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.46	0.48
1:E:4979:THR:O	1:E:4984:ASN:N	2.30	0.48
1:G:636:ASN:HD21	2:H:35:LYS:HD3	1.79	0.48
1:G:764:VAL:O	1:G:764:VAL:HG12	2.13	0.48
1:G:1277:TRP:HB2	1:G:1562:ILE:O	2.13	0.48
1:G:2305:CYS:HB2	1:G:2325:PRO:HG2	1.96	0.48
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.46	0.48
1:G:3729:MET:HE2	1:G:3770:LEU:HD22	1.96	0.48
1:G:4921:PHE:CD1	1:G:4925:ILE:HG13	2.49	0.48
1:G:4951:LYS:O	1:G:4955:GLU:HG2	2.13	0.48
1:G:5027:CYS:HB3	1:G:5030:LYS:HB3	1.95	0.48
1:A:1739:THR:O	1:A:1742:THR:OG1	2.21	0.48
1:C:625:LEU:HB3	1:C:632:LEU:HD23	1.95	0.48
1:C:791:PHE:HB2	1:C:1626:TRP:HB2	1.95	0.48
1:C:2173:GLN:N	1:C:2173:GLN:OE1	2.46	0.48
1:C:2358:ILE:CG2	1:E:195:PHE:HE2	2.27	0.48
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.21	0.48
1:E:519:VAL:HG22	1:E:523:TYR:CE2	2.48	0.48
1:E:3811:GLU:HA	1:E:3814:GLN:HG2	1.95	0.48
1:E:4039:MET:HA	1:E:4042:ARG:HH11	1.78	0.48
1:G:452:PHE:O	1:G:528:SER:OG	2.32	0.48
1:G:519:VAL:HG22	1:G:523:TYR:CE2	2.49	0.48
1:G:1098:GLY:HA3	1:G:1198:GLN:HE21	1.78	0.48
1:G:1112:ASP:OD1	1:G:1606:SER:HB3	2.14	0.48
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	1.96	0.48
1:G:2142:TYR:HE1	1:G:2196:ASN:HD22	1.62	0.48
1:G:3729:MET:CE	1:G:3770:LEU:HD22	2.44	0.48
1:G:4141:PHE:HE1	1:G:4178:LEU:HA	1.78	0.48
1:G:4640:GLU:HB3	1:G:4641:PRO:HD3	1.95	0.48
1:A:160:GLY:O	1:G:3984:ARG:NH1	2.43	0.48
1:A:519:VAL:HG22	1:A:523:TYR:CE2	2.48	0.48
1:A:1073:ARG:C	1:A:1074:ILE:HG13	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1830:VAL:HG13	1:A:1837:GLN:HB3	1.96	0.48
1:C:355:LEU:HB2	1:C:378:LEU:HB3	1.96	0.48
1:C:1098:GLY:HA3	1:C:1198:GLN:HE21	1.78	0.48
1:C:3835:LEU:O	1:C:3839:CYS:N	2.46	0.48
1:E:107:ILE:H	1:E:148:TRP:H	1.62	0.48
1:E:720:HIS:HB2	1:E:728:ARG:O	2.14	0.48
1:E:1828:ASP:HB3	1:E:1829:PRO:C	2.33	0.48
1:G:1735:ILE:CD1	1:G:1771:LEU:HD12	2.43	0.48
1:G:2383:ALA:HB1	1:G:2423:MET:SD	2.54	0.48
1:G:3768:SER:O	1:G:3772:THR:HG23	2.13	0.48
1:G:3810:ALA:HA	1:G:3813:GLN:HB2	1.94	0.48
1:G:4730:ASP:OD1	1:G:4731:ILE:N	2.46	0.48
1:A:492:ASP:OD1	1:A:546:TRP:NE1	2.42	0.48
1:A:3882:GLN:HE22	1:A:3956:SER:HB3	1.78	0.48
1:C:235:ALA:HB2	1:C:257:ARG:HD3	1.95	0.48
1:C:1295:VAL:O	1:C:1547:LYS:HA	2.14	0.48
1:C:2870:GLU:OE2	1:C:2939:ARG:NH2	2.47	0.48
1:C:2927:LEU:HD23	1:C:2930:LEU:HD12	1.96	0.48
1:C:3662:ILE:HG22	1:C:3662:ILE:O	2.14	0.48
1:C:4055:VAL:HA	1:C:4058:ILE:HG12	1.95	0.48
1:C:4242:ILE:O	1:C:4246:GLN:HG2	2.13	0.48
1:C:4727:LYS:NZ	1:C:4728:HIS:CE1	2.80	0.48
1:E:1084:GLN:NE2	1:E:1185:GLY:O	2.46	0.48
1:E:1762:LEU:HD12	1:E:1763:PRO:HD2	1.96	0.48
1:E:3662:ILE:HG22	1:E:3662:ILE:O	2.14	0.48
1:E:4580:TYR:HB2	1:E:4631:PHE:HD1	1.78	0.48
1:E:4778:TRP:O	1:E:4782:VAL:HG23	2.14	0.48
1:G:1295:VAL:O	1:G:1547:LYS:HA	2.14	0.48
1:G:2771:ILE:HD11	1:G:2857:PRO:HD2	1.96	0.48
1:G:3780:LEU:HG	1:G:3828:PHE:CE1	2.48	0.48
1:G:3835:LEU:HD22	1:G:3884:LEU:HD13	1.95	0.48
1:A:342:GLY:N	1:A:390:LEU:O	2.46	0.48
1:A:451:TYR:HD2	1:A:452:PHE:CE2	2.32	0.48
1:A:593:HIS:HB3	1:A:596:ASN:HD22	1.79	0.48
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	1.95	0.48
1:A:4578:LEU:HG	1:A:4578:LEU:O	2.14	0.48
1:A:4727:LYS:NZ	1:A:4728:HIS:CE1	2.80	0.48
1:A:4821:LYS:HD3	1:A:4947:GLN:HE22	1.79	0.48
1:A:4839:MET:HB3	1:G:4823:LEU:HD12	1.96	0.48
1:C:215:THR:O	1:C:218:HIS:HB3	2.14	0.48
1:C:593:HIS:HB3	1:C:596:ASN:HD22	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1073:ARG:C	1:C:1074:ILE:HG13	2.33	0.48
1:C:1093:GLU:HA	1:C:1148:VAL:HG13	1.96	0.48
1:C:4234:PHE:CZ	1:C:4988:TYR:HB2	2.49	0.48
1:E:110:ARG:HG2	1:E:117:TYR:CE1	2.48	0.48
1:E:355:LEU:HB2	1:E:378:LEU:HB3	1.96	0.48
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	1.96	0.48
1:E:4039:MET:HA	1:E:4042:ARG:HE	1.79	0.48
1:E:4945:ASP:O	1:E:4949:GLN:HB2	2.14	0.48
2:F:74:LEU:HD23	2:F:76:ILE:HD11	1.95	0.48
1:G:178:ARG:HD3	1:G:195:PHE:CE1	2.49	0.48
1:G:785:ALA:HA	1:G:1633:PRO:HD3	1.96	0.48
1:G:791:PHE:HB2	1:G:1626:TRP:HB2	1.95	0.48
1:G:2671:GLU:CB	1:G:2913:ALA:H	2.27	0.48
1:G:2735:PHE:HD2	1:G:2891:LYS:HD2	1.78	0.48
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.36	0.48
1:G:3980:LEU:HA	1:G:3983:SER:HB2	1.96	0.48
1:G:4779:LYS:O	1:G:4783:ILE:HG13	2.13	0.48
1:G:4844:LEU:O	1:G:4848:VAL:HG23	2.14	0.48
1:A:1556:PRO:HA	1:A:1561:VAL:HG23	1.94	0.48
1:A:3953:LYS:O	1:A:3957:VAL:HG23	2.14	0.48
1:A:4242:ILE:O	1:A:4246:GLN:HG2	2.13	0.48
1:A:4672:LYS:O	1:A:4676:GLU:HG3	2.14	0.48
1:A:4826:ILE:HG12	1:C:4839:MET:HE3	1.96	0.48
1:C:1511:HIS:CE1	1:C:1532:ASN:HD21	2.31	0.48
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	1.96	0.48
1:C:2121:PHE:CE1	1:C:3701:LEU:HD12	2.49	0.48
1:C:4039:MET:HA	1:C:4042:ARG:HH11	1.78	0.48
2:D:49:MET:N	2:D:54:GLU:OE2	2.46	0.48
1:E:342:GLY:N	1:E:390:LEU:O	2.46	0.48
1:E:4677:LEU:HD23	1:E:4711:PHE:CE1	2.49	0.48
1:G:3980:LEU:HB3	1:G:3985:LEU:HD22	1.96	0.48
1:A:119:SER:O	1:A:136:GLY:N	2.31	0.47
1:A:215:THR:O	1:A:218:HIS:HB3	2.14	0.47
1:A:1931:LEU:HD22	1:A:1935:VAL:HG11	1.96	0.47
1:A:2159:LEU:O	1:A:2162:ILE:HG22	2.14	0.47
1:A:3835:LEU:O	1:A:3839:CYS:N	2.46	0.47
1:A:3923:LEU:HD12	1:A:3961:VAL:HG12	1.96	0.47
1:A:4055:VAL:HA	1:A:4058:ILE:HG12	1.95	0.47
1:A:4141:PHE:CE1	1:A:4178:LEU:HA	2.48	0.47
1:A:4702:ASP:O	1:A:4705:VAL:HG12	2.14	0.47
1:A:4702:ASP:OD1	1:A:4778:TRP:NE1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3780:LEU:HD11	1:C:3820:LEU:HD21	1.96	0.47
1:C:3811:GLU:HA	1:C:3814:GLN:HG2	1.96	0.47
1:C:3996:PHE:CE2	1:C:4019:LEU:HD22	2.49	0.47
1:E:451:TYR:HD2	1:E:452:PHE:CE2	2.31	0.47
1:E:639:ASN:ND2	1:E:676:THR:OG1	2.45	0.47
1:E:1130:GLN:NE2	1:E:1132:TRP:HE1	2.11	0.47
1:E:4234:PHE:CZ	1:E:4988:TYR:HB2	2.49	0.47
1:E:4833:ASN:OD1	1:E:4836:GLN:HG2	2.14	0.47
1:G:107:ILE:H	1:G:148:TRP:H	1.62	0.47
1:G:636:ASN:ND2	2:H:35:LYS:HD3	2.28	0.47
1:G:2295:LEU:HD22	1:G:2335:LEU:CD2	2.44	0.47
1:G:3996:PHE:CE2	1:G:4019:LEU:HD22	2.49	0.47
1:A:489:ASN:HB3	1:A:493:ARG:HH22	1.78	0.47
1:A:1112:ASP:OD1	1:A:1606:SER:HB3	2.14	0.47
1:A:1762:LEU:HD12	1:A:1763:PRO:HD2	1.95	0.47
1:A:2121:PHE:CE1	1:A:3701:LEU:HD12	2.49	0.47
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.14	0.47
1:A:2353:VAL:HG12	1:A:2357:LEU:HD11	1.97	0.47
1:A:4898:GLY:HA3	1:G:4888:TYR:OH	2.14	0.47
1:C:16:THR:OG1	1:C:99:ARG:O	2.21	0.47
1:C:107:ILE:H	1:C:148:TRP:H	1.62	0.47
1:C:178:ARG:HD3	1:C:195:PHE:CE1	2.49	0.47
1:C:4181:ILE:HG12	1:C:4195:PHE:CE1	2.48	0.47
1:C:4826:ILE:CG1	1:E:4839:MET:CE	2.92	0.47
1:E:489:ASN:HB3	1:E:493:ARG:HH22	1.78	0.47
1:E:682:LEU:HG	1:E:682:LEU:O	2.14	0.47
1:E:1024:TYR:HB3	1:E:1032:LYS:HD3	1.95	0.47
1:E:1098:GLY:HA3	1:E:1198:GLN:HE21	1.79	0.47
1:E:1293:LEU:HD23	1:E:1584:ARG:CG	2.44	0.47
1:E:4024:VAL:HA	1:E:4027:LEU:HD12	1.97	0.47
1:G:489:ASN:HB3	1:G:493:ARG:HH22	1.79	0.47
1:G:931:THR:HA	1:G:934:ALA:HB3	1.96	0.47
1:G:1084:GLN:NE2	1:G:1185:GLY:O	2.47	0.47
1:G:1252:HIS:CG	1:G:1253:PRO:HD2	2.49	0.47
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.95	0.47
1:G:3775:ALA:O	1:G:3779:VAL:HG23	2.14	0.47
1:A:229:GLU:HG3	1:A:248:GLU:C	2.34	0.47
1:A:2295:LEU:HD22	1:A:2335:LEU:CD2	2.44	0.47
1:A:4039:MET:HA	1:A:4042:ARG:HE	1.79	0.47
1:A:4137:ARG:HD2	1:A:4177:TYR:CZ	2.50	0.47
1:C:531:ARG:HG2	1:C:566:CYS:SG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:HIS:HB2	1:C:728:ARG:O	2.14	0.47
1:C:1739:THR:O	1:C:1742:THR:OG1	2.21	0.47
1:C:4003:LEU:CB	1:C:4013:LEU:HD12	2.44	0.47
1:C:4563:ARG:NH1	1:C:4815:ASP:OD1	2.47	0.47
1:C:4645:CYS:O	1:C:4649:LEU:N	2.45	0.47
1:E:531:ARG:HG2	1:E:566:CYS:SG	2.55	0.47
1:E:1088:TRP:CZ3	1:E:1226:PHE:HD1	2.33	0.47
1:E:2870:GLU:OE2	1:E:2939:ARG:NH2	2.47	0.47
1:E:3835:LEU:O	1:E:3839:CYS:N	2.47	0.47
1:E:4145:VAL:HG13	1:E:4194:TYR:HD2	1.78	0.47
1:G:531:ARG:HG2	1:G:566:CYS:SG	2.54	0.47
1:G:3970:GLN:HE21	1:G:5004:THR:HA	1.77	0.47
1:G:4234:PHE:HZ	1:G:4988:TYR:HB2	1.77	0.47
1:A:150:MET:HG2	1:A:171:LEU:HD23	1.95	0.47
1:A:178:ARG:HD3	1:A:195:PHE:CE1	2.49	0.47
1:A:355:LEU:HB2	1:A:378:LEU:HB3	1.96	0.47
1:A:857:ASP:O	1:A:991:ASN:ND2	2.47	0.47
1:A:1205:GLY:HA3	1:A:1227:ALA:CB	2.40	0.47
1:A:1729:SER:O	1:A:1733:GLU:HG2	2.14	0.47
1:A:1961:PHE:CZ	1:A:2063:LEU:HD22	2.49	0.47
1:A:2870:GLU:OE2	1:A:2939:ARG:NH2	2.47	0.47
1:C:451:TYR:HD2	1:C:452:PHE:CE2	2.31	0.47
1:C:489:ASN:HB3	1:C:493:ARG:HH22	1.78	0.47
1:C:519:VAL:HG22	1:C:523:TYR:CE2	2.48	0.47
1:C:1762:LEU:HD12	1:C:1763:PRO:HD2	1.96	0.47
1:C:4039:MET:HA	1:C:4042:ARG:HE	1.79	0.47
1:C:4826:ILE:CG1	1:E:4839:MET:HE3	2.44	0.47
1:C:4888:TYR:OH	1:E:4898:GLY:HA3	2.15	0.47
1:E:862:VAL:HA	1:E:930:LYS:NZ	2.30	0.47
1:E:2121:PHE:CE1	1:E:3701:LEU:HD12	2.49	0.47
1:E:3501:ASP:HA	1:G:1224:GLU:OE2	2.13	0.47
1:E:4642:ALA:O	1:E:4646:LEU:N	2.44	0.47
1:G:355:LEU:HB2	1:G:378:LEU:HB3	1.97	0.47
1:G:473:ASN:O	1:G:477:LEU:HG	2.13	0.47
1:G:1457:TYR:CZ	1:G:1459:GLN:NE2	2.82	0.47
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.14	0.47
1:G:3677:LEU:O	1:G:3698:LEU:N	2.47	0.47
1:G:3959:LYS:HE3	1:G:4018:ASP:HB3	1.96	0.47
1:G:4192:ARG:NH1	1:G:5028:PHE:HD2	2.12	0.47
1:G:4230:LYS:HD2	1:G:4959:PHE:O	2.14	0.47
1:G:5011:TRP:O	1:G:5015:GLN:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:GLU:OE2	1:G:2452:ARG:NH2	2.46	0.47
1:A:758:ARG:NE	1:A:804:PRO:HG3	2.29	0.47
1:A:1514:LEU:N	1:A:1514:LEU:CD1	2.77	0.47
1:C:459:LEU:HD11	1:C:463:GLU:OE1	2.13	0.47
1:C:636:ASN:ND2	2:D:35:LYS:HD3	2.28	0.47
1:C:639:ASN:ND2	1:C:676:THR:OG1	2.45	0.47
1:C:1432:THR:N	1:C:1519:LEU:O	2.48	0.47
1:C:2295:LEU:HD22	1:C:2335:LEU:CD2	2.44	0.47
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.14	0.47
1:C:3902:TYR:HE1	1:C:3908:GLY:H	1.62	0.47
1:C:4578:LEU:O	1:C:4578:LEU:HG	2.15	0.47
2:D:87:HIS:HB3	2:D:91:ILE:H	1.80	0.47
1:E:1729:SER:O	1:E:1733:GLU:HG2	2.14	0.47
1:E:3780:LEU:HD11	1:E:3820:LEU:HD21	1.96	0.47
1:E:3882:GLN:HE22	1:E:3956:SER:HB3	1.78	0.47
1:E:4672:LYS:O	1:E:4676:GLU:HG3	2.14	0.47
1:E:4886:HIS:O	1:E:4890:GLY:N	2.48	0.47
1:G:2353:VAL:HG12	1:G:2357:LEU:HD11	1.96	0.47
1:G:3190:LEU:O	1:G:3194:LEU:N	2.46	0.47
1:G:3835:LEU:HD22	1:G:3884:LEU:CD1	2.44	0.47
1:G:3891:LEU:HB3	1:G:3899:PHE:HE2	1.80	0.47
1:G:4580:TYR:HB2	1:G:4631:PHE:CD1	2.49	0.47
1:A:39:ALA:HA	1:A:48:PHE:CE2	2.50	0.47
1:A:134:ASP:OD1	1:A:135:VAL:N	2.48	0.47
1:A:682:LEU:O	1:A:682:LEU:HG	2.14	0.47
1:A:720:HIS:HB2	1:A:728:ARG:O	2.14	0.47
1:A:1084:GLN:NE2	1:A:1185:GLY:O	2.48	0.47
1:A:1295:VAL:O	1:A:1547:LYS:HA	2.14	0.47
1:A:3811:GLU:HA	1:A:3814:GLN:HG2	1.96	0.47
1:A:4181:ILE:HG12	1:A:4195:PHE:CE1	2.48	0.47
1:A:4207:MET:HG2	1:A:4208:PRO:CD	2.42	0.47
1:A:4642:ALA:O	1:A:4646:LEU:HG	2.15	0.47
1:C:516:LYS:HG3	1:C:517:GLU:N	2.28	0.47
1:C:931:THR:HA	1:C:934:ALA:HB3	1.97	0.47
1:C:1112:ASP:OD1	1:C:1606:SER:HB3	2.14	0.47
1:C:1457:TYR:CZ	1:C:1459:GLN:NE2	2.83	0.47
1:C:2244:ARG:HH11	1:C:2248:ARG:HH21	1.60	0.47
1:C:4672:LYS:O	1:C:4676:GLU:HG3	2.14	0.47
1:C:4945:ASP:O	1:C:4949:GLN:HB2	2.14	0.47
1:E:229:GLU:HG3	1:E:248:GLU:C	2.34	0.47
1:E:892:THR:N	1:E:902:ARG:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1093:GLU:HA	1:E:1148:VAL:HG13	1.96	0.47
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.14	0.47
1:E:2383:ALA:HB1	1:E:2423:MET:SD	2.55	0.47
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	1.95	0.47
1:E:4822:THR:HG22	1:G:4839:MET:SD	2.55	0.47
1:G:1072:VAL:HB	1:G:1607:ARG:NH1	2.30	0.47
1:G:4666:VAL:HA	1:G:4669:VAL:HG12	1.95	0.47
1:A:102:LEU:HB2	1:A:105:HIS:HD2	1.72	0.47
1:A:249:GLY:O	1:A:252:VAL:HG12	2.15	0.47
1:A:1277:TRP:HB2	1:A:1562:ILE:O	2.13	0.47
1:A:1294:PRO:CB	1:A:1547:LYS:HB3	2.45	0.47
1:A:1432:THR:N	1:A:1519:LEU:O	2.48	0.47
1:A:2173:GLN:HG2	1:A:2174:GLU:N	2.20	0.47
1:A:2437:ALA:HB1	1:A:2454:ARG:CZ	2.45	0.47
1:A:4877:ASP:O	1:G:4581:LYS:HE2	2.15	0.47
1:A:4877:ASP:HA	1:G:4581:LYS:HZ3	1.80	0.47
1:C:102:LEU:HB2	1:C:105:HIS:NE2	2.29	0.47
1:C:682:LEU:HG	1:C:682:LEU:O	2.14	0.47
1:C:758:ARG:NE	1:C:804:PRO:HG3	2.30	0.47
1:C:862:VAL:HA	1:C:930:LYS:NZ	2.30	0.47
1:C:943:ASP:HB3	1:C:1050:GLY:HA3	1.96	0.47
1:C:1072:VAL:HB	1:C:1607:ARG:NH1	2.30	0.47
1:C:1106:ARG:HE	1:C:1188:PHE:HE1	1.62	0.47
1:C:1516:ILE:C	1:C:1530:THR:OG1	2.52	0.47
1:C:1961:PHE:CZ	1:C:2063:LEU:HD22	2.50	0.47
1:C:3938:SER:HB2	1:C:4002:LYS:HZ2	1.79	0.47
1:E:1775:HIS:ND1	1:E:1775:HIS:O	2.48	0.47
1:E:1830:VAL:HG13	1:E:1837:GLN:HB3	1.95	0.47
1:E:2159:LEU:O	1:E:2162:ILE:HG22	2.15	0.47
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	1.95	0.47
1:E:3996:PHE:CE2	1:E:4019:LEU:HD22	2.48	0.47
1:E:4137:ARG:HD2	1:E:4177:TYR:CZ	2.49	0.47
1:G:215:THR:O	1:G:218:HIS:HB3	2.14	0.47
1:G:235:ALA:HB2	1:G:257:ARG:HD3	1.96	0.47
1:G:342:GLY:N	1:G:390:LEU:O	2.47	0.47
1:G:1130:GLN:NE2	1:G:1132:TRP:HE1	2.11	0.47
1:G:1293:LEU:HD23	1:G:1584:ARG:CG	2.45	0.47
1:G:1830:VAL:HG13	1:G:1837:GLN:HB3	1.96	0.47
1:G:2117:VAL:O	1:G:2120:MET:HB2	2.15	0.47
1:G:2159:LEU:O	1:G:2162:ILE:HG22	2.14	0.47
1:G:3938:SER:HB2	1:G:4002:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4579:PHE:HB3	1:G:4632:LEU:O	2.14	0.47
1:G:4699:GLY:HA2	1:G:4702:ASP:HB2	1.96	0.47
1:G:4810:ALA:O	1:G:4813:LEU:HG	2.15	0.47
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.15	0.47
1:A:1101:ARG:HG3	1:A:1193:SER:OG	2.15	0.47
1:A:2383:ALA:HB1	1:A:2423:MET:SD	2.55	0.47
1:A:2427:ALA:O	1:A:2430:ILE:HG22	2.14	0.47
1:A:4945:ASP:O	1:A:4949:GLN:HB2	2.14	0.47
1:C:449:ILE:O	1:C:453:GLU:HG2	2.15	0.47
1:C:1101:ARG:HG3	1:C:1193:SER:OG	2.15	0.47
1:C:3882:GLN:HE22	1:C:3956:SER:HB3	1.78	0.47
1:C:3953:LYS:O	1:C:3957:VAL:HG23	2.14	0.47
1:C:4702:ASP:O	1:C:4705:VAL:HG12	2.15	0.47
1:C:4833:ASN:OD1	1:C:4836:GLN:HG2	2.14	0.47
1:E:1432:THR:N	1:E:1519:LEU:O	2.48	0.47
1:E:2353:VAL:HG12	1:E:2357:LEU:HD11	1.97	0.47
1:E:2437:ALA:HB1	1:E:2454:ARG:CZ	2.44	0.47
1:G:134:ASP:OD1	1:G:135:VAL:N	2.48	0.47
1:G:675:LEU:O	1:G:676:THR:OG1	2.27	0.47
1:G:943:ASP:HB3	1:G:1050:GLY:HA3	1.96	0.47
1:G:1088:TRP:CZ3	1:G:1226:PHE:HD1	2.33	0.47
1:G:1931:LEU:HD22	1:G:1935:VAL:HG11	1.97	0.47
1:G:2198:MET:HE3	1:G:2203:MET:SD	2.55	0.47
1:G:4672:LYS:O	1:G:4676:GLU:HG3	2.15	0.47
1:G:4906:GLY:H	1:G:4910:GLU:HG3	1.80	0.47
2:H:87:HIS:HB3	2:H:91:ILE:H	1.79	0.47
1:A:1072:VAL:HB	1:A:1607:ARG:NH1	2.30	0.47
1:A:1768:THR:C	1:A:1769:THR:HG1	2.15	0.47
1:A:1775:HIS:ND1	1:A:1775:HIS:O	2.48	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.14	0.47
1:C:39:ALA:HA	1:C:48:PHE:CE2	2.49	0.47
1:C:134:ASP:OD1	1:C:135:VAL:N	2.48	0.47
1:C:737:LEU:HD11	2:D:7:ILE:CG2	2.44	0.47
1:C:1088:TRP:CZ3	1:C:1226:PHE:HD1	2.33	0.47
1:C:1775:HIS:ND1	1:C:1775:HIS:O	2.48	0.47
1:C:2159:LEU:O	1:C:2162:ILE:HG22	2.15	0.47
1:C:2353:VAL:HG12	1:C:2357:LEU:HD11	1.97	0.47
1:C:2437:ALA:HB1	1:C:2454:ARG:CZ	2.45	0.47
1:C:3923:LEU:HD12	1:C:3961:VAL:HG12	1.97	0.47
1:C:4913:ARG:O	1:C:4916:PHE:HB3	2.15	0.47
1:E:178:ARG:HD3	1:E:195:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:GLU:O	1:E:458:GLU:HG2	2.13	0.47
1:E:758:ARG:NE	1:E:804:PRO:HG3	2.30	0.47
1:E:1931:LEU:HD22	1:E:1935:VAL:HG11	1.97	0.47
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.31	0.47
1:E:2295:LEU:HD22	1:E:2335:LEU:CD2	2.44	0.47
1:E:3992:PHE:HB2	1:E:4023:MET:CE	2.45	0.47
1:E:4207:MET:HG2	1:E:4208:PRO:CD	2.42	0.47
1:G:449:ILE:O	1:G:453:GLU:HG2	2.15	0.47
1:G:758:ARG:NE	1:G:804:PRO:HG3	2.30	0.47
1:G:2427:ALA:O	1:G:2430:ILE:HG22	2.15	0.47
1:A:449:ILE:O	1:A:453:GLU:HG2	2.15	0.47
1:A:2211:MET:O	1:A:2215:LEU:HG	2.15	0.47
1:A:4913:ARG:O	1:A:4916:PHE:HB3	2.15	0.47
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.97	0.47
1:C:229:GLU:HG3	1:C:248:GLU:C	2.34	0.47
1:C:1734:TYR:OH	1:C:1948:ASP:OD1	2.19	0.47
1:C:2499:LYS:O	1:C:2503:VAL:HG23	2.15	0.47
1:C:3655:GLU:O	1:C:3658:LYS:HB3	2.16	0.47
1:C:4137:ARG:HD2	1:C:4177:TYR:CZ	2.49	0.47
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.15	0.47
1:E:215:THR:O	1:E:218:HIS:HB3	2.14	0.47
1:E:1154:ASP:HB3	1:E:1157:GLU:HB3	1.97	0.47
1:E:1961:PHE:CZ	1:E:2063:LEU:HD22	2.49	0.47
1:E:2211:MET:O	1:E:2215:LEU:HG	2.15	0.47
1:E:4003:LEU:CB	1:E:4013:LEU:HD12	2.45	0.47
1:G:4642:ALA:O	1:G:4646:LEU:HG	2.15	0.47
1:A:737:LEU:HD11	2:B:7:ILE:CG2	2.43	0.46
1:A:1252:HIS:CG	1:A:1253:PRO:HD2	2.50	0.46
1:A:2771:ILE:HD11	1:A:2857:PRO:HD2	1.97	0.46
1:A:4581:LYS:CE	1:C:4877:ASP:O	2.63	0.46
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.97	0.46
1:C:1931:LEU:HD22	1:C:1935:VAL:HG11	1.97	0.46
1:E:102:LEU:HB2	1:E:105:HIS:NE2	2.29	0.46
1:E:264:PRO:O	1:E:266:ARG:N	2.43	0.46
1:E:737:LEU:HB3	1:E:738:LEU:H	1.56	0.46
1:E:791:PHE:HB2	1:E:1626:TRP:HB2	1.95	0.46
1:E:1106:ARG:HE	1:E:1188:PHE:HE1	1.63	0.46
1:E:3780:LEU:HG	1:E:3828:PHE:CE1	2.51	0.46
1:E:3989:VAL:HG13	1:E:4023:MET:HE2	1.98	0.46
1:E:4702:ASP:O	1:E:4705:VAL:HG12	2.15	0.46
1:G:39:ALA:HA	1:G:48:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:149:THR:HG23	1:G:174:VAL:HG22	1.97	0.46
1:G:229:GLU:HG3	1:G:248:GLU:C	2.35	0.46
1:G:3804:ILE:O	1:G:3809:ASN:ND2	2.48	0.46
1:G:3906:GLN:HB3	1:G:3912:THR:HA	1.96	0.46
1:G:3916:ILE:O	1:G:3919:THR:HG22	2.15	0.46
1:G:4024:VAL:O	1:G:4027:LEU:HB2	2.15	0.46
1:G:4920:PHE:O	1:G:4924:VAL:HB	2.15	0.46
2:H:38:SER:HB3	2:H:41:ASP:OD2	2.14	0.46
1:A:195:PHE:CE2	1:G:2358:ILE:HG21	2.50	0.46
1:A:634:GLN:HG3	1:A:1640:HIS:CE1	2.50	0.46
1:A:943:ASP:HB3	1:A:1050:GLY:HA3	1.96	0.46
1:A:1093:GLU:HA	1:A:1148:VAL:HG22	1.97	0.46
1:A:3780:LEU:HG	1:A:3828:PHE:CE1	2.50	0.46
1:C:1729:SER:O	1:C:1733:GLU:HG2	2.15	0.46
1:C:2383:ALA:HB1	1:C:2423:MET:SD	2.55	0.46
1:C:3501:ASP:HA	1:E:1224:GLU:OE2	2.15	0.46
2:D:88:PRO:O	2:D:90:ILE:HD12	2.16	0.46
1:E:593:HIS:HB3	1:E:596:ASN:HD22	1.79	0.46
1:E:1072:VAL:HB	1:E:1607:ARG:NH1	2.30	0.46
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.16	0.46
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.15	0.46
1:G:634:GLN:HG3	1:G:1640:HIS:CE1	2.50	0.46
1:G:1294:PRO:CB	1:G:1547:LYS:HB3	2.46	0.46
1:G:2553:TYR:CD1	1:G:2556:LEU:HD12	2.50	0.46
1:G:4023:MET:O	1:G:4026:MET:HG2	2.15	0.46
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.14	0.46
1:G:4991:PHE:O	1:G:4995:LEU:HG	2.16	0.46
1:A:350:HIS:O	1:A:354:GLY:HA2	2.15	0.46
1:A:791:PHE:HB2	1:A:1626:TRP:HB2	1.95	0.46
1:A:1943:LEU:HD11	1:A:2098:VAL:HG22	1.97	0.46
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	1.97	0.46
1:A:3655:GLU:O	1:A:3658:LYS:HB3	2.16	0.46
1:A:4039:MET:CA	1:A:4042:ARG:HH11	2.29	0.46
1:C:824:GLU:CD	1:C:825:PRO:HD2	2.36	0.46
1:C:3780:LEU:HG	1:C:3828:PHE:CE1	2.50	0.46
1:C:4574:ASN:ND2	1:C:4813:LEU:HD23	2.31	0.46
1:E:489:ASN:HB3	1:E:493:ARG:NH2	2.30	0.46
1:E:634:GLN:HG3	1:E:1640:HIS:CE1	2.50	0.46
1:E:931:THR:HA	1:E:934:ALA:HB3	1.97	0.46
1:E:1439:VAL:O	1:E:1513:ASP:N	2.44	0.46
1:E:2059:LEU:CD2	1:E:2062:ARG:HH12	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2305:CYS:HB2	1:E:2325:PRO:HG2	1.97	0.46
1:E:3655:GLU:O	1:E:3658:LYS:HB3	2.15	0.46
1:E:3923:LEU:HD12	1:E:3961:VAL:HG12	1.97	0.46
1:E:3953:LYS:O	1:E:3957:VAL:HG23	2.14	0.46
1:E:3986:TRP:HD1	1:E:4047:MET:SD	2.39	0.46
1:E:4039:MET:CA	1:E:4042:ARG:HH11	2.29	0.46
2:F:87:HIS:HB3	2:F:91:ILE:H	1.80	0.46
1:G:249:GLY:O	1:G:252:VAL:HG12	2.15	0.46
1:G:1951:LEU:O	1:G:1955:VAL:HG23	2.16	0.46
1:G:2437:ALA:HB1	1:G:2454:ARG:CZ	2.44	0.46
1:G:4239:GLU:OE2	1:G:5014:TYR:HE1	1.98	0.46
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.16	0.46
1:G:4976:GLU:O	1:G:4980:LEU:N	2.48	0.46
2:H:54:GLU:HG3	2:H:55:VAL:HG13	1.97	0.46
1:A:531:ARG:HG2	1:A:566:CYS:SG	2.55	0.46
1:A:824:GLU:CD	1:A:825:PRO:HD2	2.36	0.46
1:A:3780:LEU:HD11	1:A:3820:LEU:HD21	1.96	0.46
1:A:4674:GLU:OE2	1:A:4712:PRO:HA	2.15	0.46
1:C:2427:ALA:O	1:C:2430:ILE:HG22	2.14	0.46
1:E:1141:ARG:NH1	1:E:1169:LEU:HD11	2.28	0.46
1:E:1294:PRO:CB	1:E:1547:LYS:HB3	2.46	0.46
1:E:2290:LEU:HD11	1:E:2349:ASN:OD1	2.16	0.46
1:E:2427:ALA:O	1:E:2430:ILE:HG22	2.15	0.46
1:E:4151:SER:HA	1:E:4160:LEU:HD21	1.96	0.46
1:G:1775:HIS:ND1	1:G:1775:HIS:O	2.48	0.46
1:G:2173:GLN:CG	1:G:2174:GLU:H	2.21	0.46
1:A:107:ILE:H	1:A:148:TRP:H	1.63	0.46
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.97	0.46
1:A:1130:GLN:NE2	1:A:1132:TRP:HE1	2.11	0.46
1:A:3992:PHE:HB2	1:A:4023:MET:CE	2.45	0.46
1:C:792:LEU:HB3	1:C:799:GLU:O	2.16	0.46
1:C:2211:MET:O	1:C:2215:LEU:HG	2.15	0.46
1:C:2305:CYS:HB2	1:C:2325:PRO:HG2	1.97	0.46
1:C:4886:HIS:O	1:C:4891:VAL:N	2.42	0.46
1:E:39:ALA:HA	1:E:48:PHE:CE2	2.50	0.46
1:E:134:ASP:OD1	1:E:135:VAL:N	2.48	0.46
1:E:449:ILE:O	1:E:453:GLU:HG2	2.16	0.46
1:E:785:ALA:HA	1:E:1633:PRO:HD3	1.98	0.46
1:E:1252:HIS:CG	1:E:1253:PRO:HD2	2.50	0.46
1:E:3902:TYR:HE1	1:E:3908:GLY:H	1.62	0.46
1:E:4642:ALA:O	1:E:4646:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:682:LEU:O	1:G:682:LEU:HG	2.16	0.46
1:G:1106:ARG:HE	1:G:1188:PHE:HE1	1.63	0.46
1:G:1961:PHE:CZ	1:G:2063:LEU:HD22	2.51	0.46
1:G:2062:ARG:O	1:G:2065:SER:OG	2.21	0.46
1:G:2290:LEU:HD11	1:G:2349:ASN:OD1	2.16	0.46
1:G:4059:LEU:HA	1:G:4062:PHE:HD2	1.79	0.46
1:G:4725:LEU:O	1:G:4734:ARG:NH2	2.49	0.46
1:A:489:ASN:HB3	1:A:493:ARG:NH2	2.30	0.46
1:A:785:ALA:HA	1:A:1633:PRO:HD3	1.97	0.46
1:A:2553:TYR:CD1	1:A:2556:LEU:HD12	2.51	0.46
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.15	0.46
1:A:3989:VAL:HG13	1:A:4023:MET:HE2	1.98	0.46
1:A:4979:THR:O	1:A:4984:ASN:N	2.30	0.46
1:C:249:GLY:O	1:C:252:VAL:HG12	2.15	0.46
1:C:892:THR:N	1:C:902:ARG:HA	2.30	0.46
1:C:1128:ARG:N	1:C:1142:PRO:HB3	2.31	0.46
1:C:1252:HIS:CG	1:C:1253:PRO:HD2	2.50	0.46
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.16	0.46
1:C:3986:TRP:HD1	1:C:4047:MET:SD	2.39	0.46
1:C:3992:PHE:HB2	1:C:4023:MET:CE	2.45	0.46
1:C:4039:MET:CA	1:C:4042:ARG:HH11	2.29	0.46
1:E:21:VAL:CG2	1:E:203:ASN:HB3	2.46	0.46
1:E:1951:LEU:O	1:E:1955:VAL:HG23	2.16	0.46
1:E:2358:ILE:CG2	1:G:195:PHE:HE2	2.29	0.46
1:E:4583:SER:N	1:E:4628:VAL:O	2.42	0.46
1:E:4674:GLU:OE2	1:E:4712:PRO:HA	2.16	0.46
1:E:4913:ARG:O	1:E:4916:PHE:HB3	2.15	0.46
1:G:102:LEU:HB2	1:G:105:HIS:NE2	2.29	0.46
1:G:1729:SER:O	1:G:1733:GLU:HG2	2.15	0.46
1:G:1783:VAL:HG12	2:H:54:GLU:O	2.16	0.46
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.96	0.46
1:G:3934:TYR:HD1	1:G:3999:MET:HG2	1.80	0.46
1:G:4207:MET:HG2	1:G:4208:PRO:CD	2.44	0.46
1:G:5004:THR:O	1:G:5007:GLU:HG2	2.16	0.46
2:H:76:ILE:O	2:H:96:THR:HG23	2.16	0.46
1:A:312:THR:O	1:A:314:PHE:N	2.41	0.46
1:A:675:LEU:O	1:A:676:THR:OG1	2.27	0.46
1:A:1098:GLY:HA3	1:A:1198:GLN:HE21	1.79	0.46
1:A:1779:PRO:HA	1:A:1780:PRO:HD3	1.78	0.46
1:A:1840:PRO:O	1:A:1843:LYS:HB3	2.16	0.46
1:A:2499:LYS:O	1:A:2503:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4207:MET:HG2	1:C:4208:PRO:CD	2.42	0.46
1:C:4642:ALA:O	1:C:4646:LEU:HG	2.15	0.46
1:C:4888:TYR:OH	1:E:4898:GLY:CA	2.64	0.46
1:C:4980:LEU:HA	1:C:4984:ASN:HA	1.98	0.46
1:E:792:LEU:HB3	1:E:799:GLU:O	2.16	0.46
1:E:1101:ARG:HG3	1:E:1193:SER:OG	2.15	0.46
1:E:2173:GLN:CG	1:E:2174:GLU:H	2.22	0.46
1:E:2499:LYS:O	1:E:2503:VAL:HG23	2.15	0.46
1:G:489:ASN:HB3	1:G:493:ARG:NH2	2.31	0.46
1:G:862:VAL:HA	1:G:930:LYS:NZ	2.31	0.46
1:G:2431:ASP:HB2	1:G:2501:SER:CB	2.46	0.46
1:G:4712:PRO:O	1:G:4718:LYS:HD2	2.16	0.46
1:G:4887:MET:HA	1:G:4891:VAL:HG23	1.97	0.46
1:G:4914:VAL:O	1:G:4918:ILE:HG13	2.15	0.46
1:A:107:ILE:HD12	1:A:109:LEU:HD21	1.98	0.46
1:A:2198:MET:HE3	1:A:2203:MET:SD	2.56	0.46
1:A:3777:GLU:O	1:A:3781:GLN:HG3	2.16	0.46
1:A:3902:TYR:HE1	1:A:3908:GLY:H	1.62	0.46
1:A:4666:VAL:O	1:A:4670:ILE:HG12	2.15	0.46
2:B:87:HIS:HB3	2:B:91:ILE:H	1.80	0.46
1:C:21:VAL:CG2	1:C:203:ASN:HB3	2.46	0.46
1:C:223:PHE:O	1:C:388:LEU:HD23	2.16	0.46
1:C:1141:ARG:NH1	1:C:1169:LEU:HD11	2.27	0.46
1:E:14:LEU:HD12	1:E:163:VAL:HG12	1.97	0.46
1:E:1768:THR:O	1:E:1769:THR:OG1	2.23	0.46
1:E:2771:ILE:HD11	1:E:2857:PRO:HD2	1.96	0.46
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.42	0.46
1:G:2788:HIS:CG	1:G:2789:PRO:HD2	2.51	0.46
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.50	0.46
1:G:3906:GLN:HG2	1:G:3909:ASN:HB2	1.98	0.46
1:G:3996:PHE:HE2	1:G:4019:LEU:HD22	1.80	0.46
1:A:21:VAL:CG2	1:A:203:ASN:HB3	2.46	0.46
1:A:276:TRP:CD1	1:A:276:TRP:O	2.69	0.46
1:A:1082:THR:HG22	1:A:1189:LEU:HG	1.98	0.46
1:A:2350:ALA:O	1:A:2354:VAL:HG23	2.16	0.46
1:A:4929:LEU:O	1:A:4933:GLN:HG3	2.15	0.46
2:B:88:PRO:O	2:B:90:ILE:HD12	2.16	0.46
1:C:564:LEU:O	1:C:568:LEU:HG	2.16	0.46
1:C:2059:LEU:CD2	1:C:2062:ARG:HH12	2.20	0.46
1:C:2350:ALA:O	1:C:2354:VAL:HG23	2.16	0.46
1:C:2553:TYR:CD1	1:C:2556:LEU:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3938:SER:OG	1:E:80:GLU:OE1	2.30	0.46
2:F:88:PRO:O	2:F:90:ILE:HD12	2.16	0.46
1:G:223:PHE:O	1:G:388:LEU:HD23	2.16	0.46
1:G:792:LEU:HB3	1:G:799:GLU:O	2.16	0.46
1:G:1101:ARG:HG3	1:G:1193:SER:OG	2.15	0.46
1:G:1432:THR:N	1:G:1519:LEU:O	2.49	0.46
1:G:1638:ALA:HA	1:G:1649:ASP:HA	1.98	0.46
1:G:3937:TYR:O	1:G:3941:ASP:N	2.47	0.46
1:A:451:TYR:CZ	1:A:474:ARG:HD2	2.51	0.46
1:A:649:PHE:HB3	1:A:776:LEU:HB3	1.98	0.46
1:A:1128:ARG:N	1:A:1142:PRO:HB3	2.31	0.46
1:A:1293:LEU:HD23	1:A:1584:ARG:CG	2.45	0.46
1:A:4003:LEU:CB	1:A:4013:LEU:HD12	2.44	0.46
1:A:4717:ASP:O	1:A:4720:VAL:HG23	2.16	0.46
1:A:4888:TYR:OH	1:C:4898:GLY:HA3	2.16	0.46
1:C:690:GLU:CG	1:C:1459:GLN:OE1	2.64	0.46
1:C:2460:LEU:HD12	1:E:178:ARG:CZ	2.45	0.46
1:C:4717:ASP:O	1:C:4720:VAL:HG23	2.16	0.46
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.16	0.46
1:E:292:ALA:HB3	1:E:302:VAL:HG11	1.98	0.46
1:E:350:HIS:O	1:E:354:GLY:HA2	2.16	0.46
1:E:1093:GLU:HA	1:E:1148:VAL:HG22	1.97	0.46
1:E:2250:MET:HA	1:E:2253:HIS:HD2	1.81	0.46
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.47	0.46
1:E:3916:ILE:O	1:E:3920:VAL:HG23	2.16	0.46
1:E:3938:SER:OG	1:G:80:GLU:OE1	2.27	0.46
1:E:4951:LYS:O	1:E:4955:GLU:HG2	2.16	0.46
1:G:445:LEU:CD2	1:G:522:LEU:HD12	2.44	0.46
1:G:2211:MET:O	1:G:2215:LEU:HG	2.16	0.46
1:A:459:LEU:HD11	1:A:463:GLU:OE1	2.15	0.45
1:A:1638:ALA:HA	1:A:1649:ASP:HA	1.97	0.45
1:A:3724:ALA:O	1:A:3727:ASP:HB2	2.16	0.45
1:A:3977:GLN:HE22	1:A:4033:GLY:H	1.63	0.45
1:A:3986:TRP:HD1	1:A:4047:MET:SD	2.39	0.45
1:A:4712:PRO:O	1:A:4718:LYS:HD2	2.16	0.45
2:B:44:LYS:HA	2:B:45:PRO:HD3	1.86	0.45
1:C:276:TRP:CD1	1:C:276:TRP:O	2.69	0.45
1:C:489:ASN:HB3	1:C:493:ARG:NH2	2.30	0.45
1:C:1294:PRO:CB	1:C:1547:LYS:HB3	2.45	0.45
1:C:1713:ASP:OD1	1:C:1714:LEU:N	2.49	0.45
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2883:HIS:HE1	1:C:2904:LEU:O	1.99	0.45
1:C:3989:VAL:HG13	1:C:4023:MET:HE2	1.98	0.45
1:C:4712:PRO:O	1:C:4718:LYS:HD2	2.15	0.45
1:E:249:GLY:O	1:E:252:VAL:HG12	2.15	0.45
1:E:824:GLU:CD	1:E:825:PRO:HD2	2.36	0.45
1:E:2553:TYR:CD1	1:E:2556:LEU:HD12	2.51	0.45
1:E:2819:TRP:HH2	1:E:2881:ASN:HB2	1.81	0.45
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	1.99	0.45
1:E:4578:LEU:CD1	1:G:4880:MET:CA	2.85	0.45
1:E:4648:LEU:O	1:E:4652:LEU:N	2.47	0.45
1:E:4810:ALA:O	1:E:4813:LEU:HG	2.16	0.45
1:G:14:LEU:HD12	1:G:163:VAL:HG12	1.98	0.45
1:G:1598:GLN:O	1:G:1600:LEU:N	2.49	0.45
1:G:2499:LYS:O	1:G:2503:VAL:HG23	2.15	0.45
1:G:4821:LYS:HD3	1:G:4947:GLN:NE2	2.31	0.45
1:G:4832:HIS:NE2	1:G:4939:ALA:HB1	2.31	0.45
2:H:88:PRO:O	2:H:90:ILE:HD12	2.16	0.45
1:A:2431:ASP:HB2	1:A:2501:SER:CB	2.46	0.45
1:A:2883:HIS:HE1	1:A:2904:LEU:O	1.99	0.45
1:C:649:PHE:HB3	1:C:776:LEU:HB3	1.98	0.45
1:C:2290:LEU:HD11	1:C:2349:ASN:OD1	2.16	0.45
1:C:2771:ILE:HD11	1:C:2857:PRO:HD2	1.97	0.45
1:C:4581:LYS:HD2	1:E:4856:PHE:CZ	2.50	0.45
1:E:1224:GLU:HA	1:E:1225:PRO:HD3	1.64	0.45
1:E:2431:ASP:HB2	1:E:2501:SER:CB	2.46	0.45
1:G:16:THR:OG1	1:G:99:ARG:O	2.20	0.45
1:G:21:VAL:CG2	1:G:203:ASN:HB3	2.46	0.45
1:G:833:GLY:HA3	1:G:838:HIS:CD2	2.52	0.45
1:G:1660:GLN:NE2	1:G:1704:PRO:HB2	2.31	0.45
1:G:2350:ALA:O	1:G:2354:VAL:HG23	2.16	0.45
1:G:3371:LYS:O	1:G:3375:GLU:N	2.44	0.45
1:G:3936:TYR:HD2	1:G:3937:TYR:CE2	2.34	0.45
1:G:4209:GLN:HG3	1:G:4213:SER:HB2	1.99	0.45
1:G:4727:LYS:NZ	1:G:4728:HIS:CE1	2.84	0.45
1:A:750:LEU:O	1:A:751:SER:OG	2.33	0.45
1:A:792:LEU:HB3	1:A:799:GLU:O	2.16	0.45
1:A:1713:ASP:OD1	1:A:1714:LEU:N	2.49	0.45
1:A:2290:LEU:HD11	1:A:2349:ASN:OD1	2.16	0.45
1:A:3698:LEU:O	1:A:3701:LEU:HB3	2.17	0.45
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.17	0.45
1:A:4234:PHE:HZ	1:A:4988:TYR:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1090:PHE:CE1	1:C:1151:CYS:HB3	2.51	0.45
1:C:1438:ARG:HA	1:C:1514:LEU:HA	1.98	0.45
1:C:2117:VAL:O	1:C:2120:MET:HB2	2.16	0.45
1:C:2198:MET:HE3	1:C:2203:MET:SD	2.56	0.45
1:C:3724:ALA:O	1:C:3727:ASP:HB2	2.17	0.45
1:C:4024:VAL:HA	1:C:4027:LEU:HD12	1.98	0.45
1:C:4578:LEU:CD1	1:E:4880:MET:CA	2.83	0.45
1:C:4674:GLU:OE2	1:C:4712:PRO:HA	2.16	0.45
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.51	0.45
1:E:1840:PRO:O	1:E:1843:LYS:HB3	2.16	0.45
1:E:2883:HIS:HE1	1:E:2904:LEU:O	1.99	0.45
1:E:3775:ALA:O	1:E:3779:VAL:HG23	2.15	0.45
1:E:3977:GLN:HE22	1:E:4033:GLY:H	1.64	0.45
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.52	0.45
1:G:459:LEU:HD11	1:G:463:GLU:OE1	2.15	0.45
1:G:1093:GLU:HA	1:G:1148:VAL:HG22	1.98	0.45
1:G:2420:HIS:ND1	1:G:2423:MET:SD	2.76	0.45
1:G:3434:LEU:O	1:G:3437:MET:N	2.49	0.45
1:G:3655:GLU:O	1:G:3658:LYS:HB3	2.15	0.45
1:A:119:SER:OG	1:A:136:GLY:O	2.25	0.45
1:A:223:PHE:O	1:A:388:LEU:HD23	2.16	0.45
1:A:1106:ARG:HE	1:A:1188:PHE:HE1	1.63	0.45
1:A:2248:ARG:HA	1:A:2286:LEU:HD22	1.99	0.45
1:C:478:PHE:CD1	1:C:529:LEU:HD21	2.51	0.45
1:C:785:ALA:HA	1:C:1633:PRO:HD3	1.97	0.45
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.31	0.45
1:C:2745:VAL:HB	1:C:2814:LYS:HB3	1.98	0.45
1:E:478:PHE:CD1	1:E:529:LEU:HD21	2.52	0.45
1:E:558:SER:O	1:E:561:LEU:HB3	2.16	0.45
1:E:2062:ARG:O	1:E:2065:SER:OG	2.21	0.45
1:E:2745:VAL:HB	1:E:2814:LYS:HB3	1.98	0.45
1:E:3698:LEU:O	1:E:3701:LEU:HB3	2.17	0.45
1:E:4563:ARG:NH1	1:E:4815:ASP:OD1	2.47	0.45
2:F:58:GLY:HA3	2:F:76:ILE:CG2	2.46	0.45
1:G:720:HIS:HB2	1:G:728:ARG:O	2.16	0.45
1:G:1154:ASP:HB3	1:G:1157:GLU:HB3	1.97	0.45
1:G:1729:SER:HB2	1:G:2163:ARG:HH11	1.81	0.45
1:G:4213:SER:O	1:G:4217:PHE:N	2.42	0.45
1:G:4886:HIS:O	1:G:4891:VAL:N	2.45	0.45
1:A:833:GLY:HA3	1:A:838:HIS:CD2	2.52	0.45
1:A:2822:THR:HG1	1:A:2938:THR:HG1	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.16	0.45
1:A:4980:LEU:HA	1:A:4984:ASN:HA	1.98	0.45
1:C:451:TYR:CZ	1:C:474:ARG:HD2	2.52	0.45
1:C:634:GLN:HG3	1:C:1640:HIS:CE1	2.50	0.45
1:C:737:LEU:HB3	1:C:738:LEU:H	1.56	0.45
1:C:1834:VAL:HG13	1:C:1835:GLU:N	2.32	0.45
1:E:943:ASP:HB3	1:E:1050:GLY:HA3	1.97	0.45
1:E:1240:LYS:HZ3	1:E:1242:LEU:HB2	1.80	0.45
1:E:1648:MET:SD	1:E:1656:ARG:NH2	2.89	0.45
1:E:2117:VAL:O	1:E:2120:MET:HB2	2.17	0.45
1:E:3724:ALA:O	1:E:3727:ASP:HB2	2.16	0.45
1:E:4823:LEU:HA	1:E:4826:ILE:CD1	2.44	0.45
1:E:4929:LEU:O	1:E:4933:GLN:HG3	2.17	0.45
1:G:478:PHE:CD1	1:G:529:LEU:HD21	2.52	0.45
1:G:593:HIS:HB3	1:G:596:ASN:HD22	1.79	0.45
1:G:1079:LYS:HZ2	1:G:1107:PRO:HB2	1.81	0.45
1:G:1840:PRO:O	1:G:1843:LYS:HB3	2.16	0.45
1:G:2059:LEU:CD2	1:G:2062:ARG:HH12	2.20	0.45
1:G:2250:MET:HA	1:G:2253:HIS:HD2	1.81	0.45
1:A:372:LEU:O	1:A:374:LYS:N	2.50	0.45
1:A:564:LEU:O	1:A:568:LEU:HG	2.16	0.45
1:A:1660:GLN:NE2	1:A:1704:PRO:HB2	2.31	0.45
1:A:2142:TYR:HE1	1:A:2196:ASN:HD22	1.64	0.45
1:A:4024:VAL:HA	1:A:4027:LEU:HD12	1.97	0.45
1:A:4578:LEU:HG	1:C:4880:MET:HB2	1.99	0.45
1:A:4579:PHE:HB3	1:A:4632:LEU:O	2.17	0.45
1:C:274:LEU:HA	1:C:278:GLN:NE2	2.32	0.45
1:C:445:LEU:CD2	1:C:522:LEU:HD12	2.44	0.45
1:C:839:LEU:HD22	1:C:1075:PHE:CE1	2.52	0.45
1:C:1082:THR:HG22	1:C:1189:LEU:HG	1.98	0.45
1:C:1093:GLU:HA	1:C:1148:VAL:HG22	1.98	0.45
1:C:1598:GLN:O	1:C:1600:LEU:N	2.49	0.45
1:C:2271:THR:HA	1:C:2272:PRO:HD2	1.85	0.45
1:C:3969:ILE:CG1	1:C:3980:LEU:HD11	2.46	0.45
1:C:4579:PHE:HB3	1:C:4632:LEU:O	2.17	0.45
1:C:4826:ILE:O	1:C:4829:SER:HB2	2.16	0.45
1:C:4915:VAL:HA	1:C:4918:ILE:HD12	1.97	0.45
2:D:67:SER:N	2:D:70:GLN:OE1	2.37	0.45
1:E:24:CYS:HB3	1:E:200:TRP:CE3	2.52	0.45
1:E:149:THR:HG23	1:E:174:VAL:HG22	1.98	0.45
1:E:274:LEU:HA	1:E:278:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:649:PHE:HB3	1:E:776:LEU:HB3	1.98	0.45
1:E:833:GLY:HA3	1:E:838:HIS:CD2	2.52	0.45
1:E:839:LEU:HD22	1:E:1075:PHE:CE1	2.52	0.45
1:E:2460:LEU:HD12	1:G:178:ARG:CZ	2.46	0.45
1:E:3777:GLU:O	1:E:3781:GLN:HG3	2.16	0.45
1:E:4702:ASP:OD1	1:E:4778:TRP:NE1	2.31	0.45
1:E:4712:PRO:O	1:E:4718:LYS:HD2	2.16	0.45
1:G:1713:ASP:OD1	1:G:1714:LEU:N	2.49	0.45
1:G:4000:MET:O	1:G:4004:ALA:N	2.49	0.45
1:G:4735:GLU:O	1:G:4739:GLU:N	2.48	0.45
1:A:24:CYS:HB3	1:A:200:TRP:CE3	2.52	0.45
1:A:758:ARG:HA	1:A:763:PRO:HA	1.97	0.45
1:A:1090:PHE:CE1	1:A:1151:CYS:HB3	2.52	0.45
1:A:1292:SER:O	1:A:1294:PRO:HD3	2.17	0.45
1:A:1294:PRO:CD	1:A:1584:ARG:HH11	2.19	0.45
1:A:2272:PRO:O	1:A:2275:VAL:HB	2.17	0.45
1:A:4214:LYS:HE2	1:A:4985:LEU:HD23	1.98	0.45
1:C:312:THR:O	1:C:314:PHE:N	2.41	0.45
1:C:533:ASN:OD1	1:C:535:ALA:N	2.41	0.45
1:C:599:VAL:O	1:C:602:VAL:HB	2.17	0.45
1:C:1805:GLU:O	1:C:1808:ARG:HG2	2.17	0.45
1:C:1840:PRO:O	1:C:1843:LYS:HB3	2.16	0.45
1:C:2114:PRO:O	1:C:3704:HIS:NE2	2.40	0.45
1:C:2431:ASP:HB2	1:C:2501:SER:CB	2.46	0.45
1:C:2556:LEU:HD23	1:C:2559:LEU:CD1	2.47	0.45
1:C:3698:LEU:O	1:C:3701:LEU:HB3	2.17	0.45
1:C:3777:GLU:O	1:C:3781:GLN:HG3	2.16	0.45
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.17	0.45
1:C:3996:PHE:O	1:C:4000:MET:HG2	2.17	0.45
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.99	0.45
1:C:4234:PHE:HZ	1:C:4988:TYR:HB2	1.82	0.45
1:E:111:HIS:NE2	1:E:113:HIS:HB3	2.32	0.45
1:E:1079:LYS:HZ2	1:E:1107:PRO:HB2	1.80	0.45
1:E:1805:GLU:O	1:E:1808:ARG:HG2	2.17	0.45
1:E:4924:VAL:HA	1:E:4928:LEU:HD12	1.99	0.45
1:G:350:HIS:O	1:G:354:GLY:HA2	2.17	0.45
1:G:533:ASN:OD1	1:G:535:ALA:N	2.41	0.45
1:G:558:SER:O	1:G:561:LEU:HB3	2.17	0.45
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.49	0.45
1:G:4039:MET:HG3	1:G:4040:ILE:H	1.81	0.45
1:G:4108:ILE:O	1:G:4111:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4733:GLY:O	1:G:4737:ILE:HG12	2.17	0.45
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.32	0.45
1:A:2244:ARG:NH1	1:A:2285:GLU:OE1	2.50	0.45
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.99	0.45
1:A:4574:ASN:ND2	1:A:4813:LEU:HD23	2.31	0.45
1:C:24:CYS:HB3	1:C:200:TRP:CE3	2.52	0.45
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.32	0.45
1:C:438:ILE:HG23	1:C:518:ILE:HD11	1.98	0.45
1:C:558:SER:O	1:C:561:LEU:HB3	2.16	0.45
1:C:768:PHE:HB3	1:C:771:PHE:HE2	1.82	0.45
1:C:941:MET:HA	1:C:1051:TYR:HD1	1.82	0.45
1:C:2819:TRP:HH2	1:C:2881:ASN:HB2	1.81	0.45
1:C:4143:VAL:O	1:C:4147:LEU:HG	2.17	0.45
1:C:4648:LEU:O	1:C:4652:LEU:N	2.47	0.45
1:E:564:LEU:O	1:E:568:LEU:HG	2.16	0.45
1:E:662:TRP:CZ3	1:E:814:ALA:HB2	2.52	0.45
1:E:1128:ARG:N	1:E:1142:PRO:HB3	2.31	0.45
1:E:1713:ASP:OD1	1:E:1714:LEU:N	2.50	0.45
1:E:4666:VAL:O	1:E:4670:ILE:HG12	2.16	0.45
1:E:4915:VAL:HA	1:E:4918:ILE:HD12	1.98	0.45
1:G:1848:LEU:O	1:G:1851:MET:HG2	2.17	0.45
1:G:2232:CYS:O	1:G:2235:PHE:HB3	2.17	0.45
1:G:4786:ASP:OD2	1:G:4788:SER:HB3	2.16	0.45
1:G:4946:GLN:O	1:G:4950:VAL:HG23	2.17	0.45
1:A:102:LEU:HB2	1:A:105:HIS:NE2	2.31	0.45
1:A:1130:GLN:HB2	1:A:1138:PRO:HA	1.99	0.45
1:A:1951:LEU:O	1:A:1955:VAL:HG23	2.16	0.45
1:A:2232:CYS:O	1:A:2235:PHE:HB3	2.17	0.45
1:A:4648:LEU:O	1:A:4652:LEU:N	2.47	0.45
1:A:4802:GLY:HA2	1:A:4809:PHE:HB2	1.99	0.45
1:C:887:ILE:CG2	1:C:962:SER:HB2	2.47	0.45
1:C:2173:GLN:HG2	1:C:2174:GLU:N	2.19	0.45
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.16	0.45
1:C:4666:VAL:O	1:C:4670:ILE:HG12	2.16	0.45
2:D:58:GLY:HA3	2:D:76:ILE:CG2	2.47	0.45
1:E:223:PHE:O	1:E:388:LEU:HD23	2.16	0.45
1:E:234:SER:O	1:E:242:ARG:HG2	2.17	0.45
1:E:445:LEU:CD2	1:E:522:LEU:HD12	2.44	0.45
1:E:2296:GLU:HA	1:E:2299:VAL:HG22	1.99	0.45
1:E:2350:ALA:O	1:E:2354:VAL:HG23	2.17	0.45
1:E:4579:PHE:HB3	1:E:4632:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:107:ILE:HD12	1:G:109:LEU:HD21	1.99	0.45
1:G:111:HIS:NE2	1:G:113:HIS:HB3	2.32	0.45
1:G:290:TYR:HB2	1:G:307:ALA:CB	2.47	0.45
1:G:438:ILE:HG23	1:G:518:ILE:HD11	1.98	0.45
1:G:716:PHE:N	1:G:738:LEU:HD13	2.31	0.45
1:G:824:GLU:CD	1:G:825:PRO:HD2	2.36	0.45
1:G:1205:GLY:HA3	1:G:1227:ALA:CB	2.43	0.45
1:G:1234:VAL:HG12	1:G:1235:THR:O	2.17	0.45
1:G:1805:GLU:O	1:G:1808:ARG:HG2	2.17	0.45
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	1.99	0.45
1:G:3997:ALA:HB1	1:G:4057:MET:HB2	1.99	0.45
1:A:16:THR:OG1	1:A:99:ARG:O	2.18	0.45
1:A:1234:VAL:HG12	1:A:1235:THR:O	2.17	0.45
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.99	0.45
1:A:3936:TYR:HD2	1:A:3937:TYR:CD2	2.35	0.45
1:A:4181:ILE:HD11	1:A:4193:ILE:HD11	1.99	0.45
2:B:58:GLY:HA3	2:B:76:ILE:CG2	2.47	0.45
1:C:234:SER:O	1:C:242:ARG:HG2	2.17	0.45
1:C:275:ARG:HA	1:C:338:GLU:OE1	2.17	0.45
1:C:290:TYR:HB2	1:C:307:ALA:CB	2.47	0.45
1:C:788:LYS:HD3	1:C:1629:GLN:OE1	2.17	0.45
1:C:1660:GLN:NE2	1:C:1704:PRO:HB2	2.32	0.45
1:C:3977:GLN:HE22	1:C:4033:GLY:H	1.63	0.45
1:C:4921:PHE:HA	1:C:4925:ILE:CG1	2.47	0.45
1:E:275:ARG:HA	1:E:338:GLU:OE1	2.17	0.45
1:E:276:TRP:CD1	1:E:276:TRP:O	2.69	0.45
1:E:768:PHE:HB3	1:E:771:PHE:HE2	1.82	0.45
1:E:856:VAL:O	1:E:991:ASN:ND2	2.48	0.45
1:E:1074:ILE:HB	1:E:1239:SER:OG	2.17	0.45
1:E:1158:ASN:ND2	1:E:1182:ILE:O	2.50	0.45
1:E:1638:ALA:HA	1:E:1649:ASP:HA	1.98	0.45
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.98	0.45
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	1.98	0.45
1:E:3936:TYR:HD2	1:E:3937:TYR:CD2	2.35	0.45
1:E:4717:ASP:O	1:E:4720:VAL:HG23	2.17	0.45
1:E:4980:LEU:HA	1:E:4984:ASN:HA	1.98	0.45
1:G:24:CYS:HB3	1:G:200:TRP:CE3	2.52	0.45
1:G:119:SER:O	1:G:136:GLY:N	2.31	0.45
1:G:941:MET:HA	1:G:1051:TYR:HD1	1.82	0.45
1:G:1943:LEU:HD11	1:G:2098:VAL:HG22	1.99	0.45
1:G:4648:LEU:O	1:G:4652:LEU:N	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4851:TYR:HB3	1:G:4916:PHE:CZ	2.52	0.45
1:A:478:PHE:CD1	1:A:529:LEU:HD21	2.52	0.44
1:A:714:TYR:HB2	1:A:757:PHE:CD2	2.52	0.44
1:A:788:LYS:HD3	1:A:1629:GLN:OE1	2.17	0.44
1:A:839:LEU:HD22	1:A:1075:PHE:CE1	2.52	0.44
1:A:1598:GLN:O	1:A:1600:LEU:N	2.49	0.44
1:A:1805:GLU:O	1:A:1808:ARG:HG2	2.17	0.44
1:A:2117:VAL:O	1:A:2120:MET:HB2	2.17	0.44
1:A:2250:MET:HA	1:A:2253:HIS:HD2	1.81	0.44
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.51	0.44
1:A:4143:VAL:O	1:A:4147:LEU:HG	2.17	0.44
1:A:4881:THR:HA	1:A:4884:LEU:HG	1.99	0.44
1:A:4892:ARG:HH22	1:C:4920:PHE:HD2	1.63	0.44
1:A:4991:PHE:O	1:A:4995:LEU:HG	2.17	0.44
1:C:73:LEU:O	1:C:105:HIS:HB3	2.17	0.44
1:C:350:HIS:O	1:C:354:GLY:HA2	2.17	0.44
1:C:530:ILE:HG12	1:C:540:PHE:HE2	1.82	0.44
1:C:662:TRP:CZ3	1:C:814:ALA:HB2	2.52	0.44
1:C:748:LEU:HD21	1:C:777:PHE:HD2	1.82	0.44
1:C:1074:ILE:HB	1:C:1239:SER:OG	2.18	0.44
1:C:1087:ARG:HH11	1:C:1223:PHE:HE1	1.65	0.44
1:C:2248:ARG:HA	1:C:2286:LEU:HD22	1.98	0.44
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.52	0.44
1:C:4581:LYS:HE2	1:E:4877:ASP:O	2.17	0.44
1:C:4821:LYS:HD3	1:C:4947:GLN:HE22	1.80	0.44
1:C:4997:ASN:OD1	1:C:4998:LYS:N	2.50	0.44
2:D:11:ASP:OD1	2:D:67:SER:HB2	2.18	0.44
2:D:22:CYS:O	2:D:47:LYS:HA	2.17	0.44
1:E:107:ILE:HD12	1:E:109:LEU:HD21	1.99	0.44
1:E:748:LEU:HD13	1:E:755:ILE:CG1	2.47	0.44
1:E:1090:PHE:CE1	1:E:1151:CYS:HB3	2.51	0.44
1:E:4039:MET:HG3	1:E:4040:ILE:N	2.32	0.44
2:F:74:LEU:O	2:F:98:VAL:HA	2.17	0.44
1:G:839:LEU:HD22	1:G:1075:PHE:CE1	2.52	0.44
1:G:1128:ARG:N	1:G:1142:PRO:HB3	2.31	0.44
1:G:1143:TRP:HE3	1:G:1144:GLN:O	2.01	0.44
2:H:11:ASP:OD1	2:H:67:SER:HB2	2.17	0.44
2:H:74:LEU:HD23	2:H:76:ILE:HD11	1.99	0.44
1:A:103:TYR:CE2	1:A:157:ARG:HB3	2.52	0.44
1:A:599:VAL:O	1:A:602:VAL:HB	2.17	0.44
1:A:941:MET:HA	1:A:1051:TYR:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1141:ARG:NH1	1:A:1169:LEU:HD11	2.26	0.44
1:A:2059:LEU:CD2	1:A:2062:ARG:HH12	2.20	0.44
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.52	0.44
1:A:3906:GLN:HG2	1:A:3909:ASN:HB2	2.00	0.44
1:A:4892:ARG:HH12	1:C:4898:GLY:H	1.64	0.44
1:C:292:ALA:HB3	1:C:302:VAL:HG11	1.99	0.44
1:C:2116:LEU:O	1:C:2120:MET:HG3	2.17	0.44
1:C:2250:MET:HA	1:C:2253:HIS:HD2	1.81	0.44
1:C:3835:LEU:HD22	1:C:3884:LEU:HD11	2.00	0.44
1:C:4991:PHE:O	1:C:4995:LEU:HG	2.17	0.44
1:E:233:ILE:O	1:E:257:ARG:HD2	2.17	0.44
1:E:2244:ARG:NH1	1:E:2285:GLU:OE1	2.50	0.44
1:E:2248:ARG:HA	1:E:2286:LEU:HD22	1.98	0.44
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.18	0.44
1:E:4056:GLU:O	1:E:4060:LYS:HG2	2.18	0.44
2:F:22:CYS:O	2:F:47:LYS:HA	2.18	0.44
1:G:276:TRP:CD1	1:G:276:TRP:O	2.70	0.44
1:G:639:ASN:ND2	1:G:676:THR:OG1	2.46	0.44
1:G:1158:ASN:ND2	1:G:1182:ILE:O	2.50	0.44
1:G:4686:LEU:HD13	1:G:4692:PRO:HD3	2.00	0.44
1:A:35:LEU:HD12	1:A:35:LEU:O	2.17	0.44
1:A:161:GLU:OE1	1:G:3984:ARG:NH1	2.51	0.44
1:A:274:LEU:HA	1:A:278:GLN:NE2	2.32	0.44
1:A:561:LEU:CD2	1:A:598:LYS:HB3	2.48	0.44
1:A:887:ILE:CG2	1:A:962:SER:HB2	2.47	0.44
1:A:1729:SER:HB2	1:A:2163:ARG:HH11	1.81	0.44
1:A:3996:PHE:O	1:A:4000:MET:HG2	2.17	0.44
1:A:4645:CYS:O	1:A:4649:LEU:N	2.45	0.44
1:A:4887:MET:HA	1:A:4891:VAL:HG23	1.99	0.44
1:A:4924:VAL:HA	1:A:4928:LEU:HD12	1.99	0.44
1:C:35:LEU:HD12	1:C:35:LEU:O	2.18	0.44
1:C:107:ILE:HD12	1:C:109:LEU:HD21	1.99	0.44
1:C:561:LEU:CD2	1:C:598:LYS:HB3	2.48	0.44
1:C:1943:LEU:HD11	1:C:2098:VAL:HG22	1.99	0.44
1:C:1951:LEU:O	1:C:1955:VAL:HG23	2.16	0.44
1:C:2244:ARG:NH1	1:C:2285:GLU:OE1	2.50	0.44
1:C:3811:GLU:O	1:C:3814:GLN:HG3	2.18	0.44
1:E:290:TYR:HB2	1:E:307:ALA:CB	2.48	0.44
1:E:2271:THR:HA	1:E:2272:PRO:HD2	1.85	0.44
1:E:2272:PRO:O	1:E:2275:VAL:HB	2.17	0.44
1:E:2420:HIS:ND1	1:E:2423:MET:SD	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2556:LEU:HD23	1:E:2559:LEU:CD1	2.48	0.44
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.51	0.44
1:E:3996:PHE:O	1:E:4000:MET:HG2	2.17	0.44
1:G:121:LEU:O	1:G:133:PHE:HB3	2.18	0.44
1:G:203:ASN:OD1	1:G:204:PRO:HD2	2.18	0.44
1:G:674:PHE:HD1	2:H:40:ARG:NH1	2.09	0.44
1:G:1090:PHE:CE1	1:G:1151:CYS:HB3	2.51	0.44
1:G:1294:PRO:CD	1:G:1584:ARG:HH11	2.19	0.44
1:G:2558:VAL:O	1:G:2561:LEU:HG	2.16	0.44
1:G:2825:LYS:HA	1:G:2935:TYR:CD1	2.52	0.44
1:G:4041:ALA:O	1:G:4044:MET:HB3	2.18	0.44
1:G:4251:ILE:HG22	1:G:4557:ARG:NH1	2.32	0.44
1:A:558:SER:O	1:A:561:LEU:HB3	2.17	0.44
1:A:593:HIS:HA	1:A:1597:VAL:HB	1.99	0.44
1:A:1848:LEU:O	1:A:1851:MET:HG2	2.18	0.44
1:A:4856:PHE:CZ	1:G:4581:LYS:HD2	2.47	0.44
1:C:233:ILE:O	1:C:257:ARG:HD2	2.17	0.44
1:C:1439:VAL:O	1:C:1513:ASP:N	2.49	0.44
1:C:4842:GLY:O	1:C:4846:VAL:HG23	2.18	0.44
1:C:4881:THR:HA	1:C:4884:LEU:HG	2.00	0.44
1:E:533:ASN:OD1	1:E:535:ALA:N	2.42	0.44
1:E:567:VAL:O	1:E:571:SER:OG	2.27	0.44
1:E:599:VAL:O	1:E:602:VAL:HB	2.17	0.44
1:E:685:GLY:O	1:E:780:VAL:HB	2.17	0.44
1:E:1848:LEU:O	1:E:1851:MET:HG2	2.18	0.44
1:E:3980:LEU:HA	1:E:3983:SER:OG	2.17	0.44
1:E:4881:THR:HA	1:E:4884:LEU:HG	1.98	0.44
1:G:274:LEU:HA	1:G:278:GLN:NE2	2.32	0.44
1:G:292:ALA:HB3	1:G:302:VAL:HG11	1.99	0.44
1:G:564:LEU:O	1:G:568:LEU:HG	2.16	0.44
1:G:599:VAL:O	1:G:602:VAL:HB	2.17	0.44
1:G:1834:VAL:HG13	1:G:1835:GLU:N	2.32	0.44
1:G:2500:ALA:HA	1:G:2556:LEU:HD21	1.99	0.44
1:A:530:ILE:HG12	1:A:540:PHE:HE2	1.83	0.44
1:A:931:THR:O	1:A:935:LEU:N	2.44	0.44
1:A:4888:TYR:OH	1:C:4898:GLY:CA	2.65	0.44
2:B:11:ASP:OD1	2:B:67:SER:HB2	2.18	0.44
1:C:173:SER:HG	1:C:175:SER:HG	1.63	0.44
1:C:714:TYR:HB2	1:C:757:PHE:CD2	2.53	0.44
1:C:1930:LYS:HG2	1:C:1931:LEU:N	2.33	0.44
1:C:2272:PRO:O	1:C:2275:VAL:HB	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3839:CYS:SG	1:C:3922:TYR:CE1	3.11	0.44
1:C:3936:TYR:HD2	1:C:3937:TYR:CD2	2.35	0.44
1:C:4851:TYR:HB3	1:C:4916:PHE:CZ	2.53	0.44
1:E:73:LEU:O	1:E:105:HIS:HB3	2.17	0.44
1:E:788:LYS:HD3	1:E:1629:GLN:OE1	2.17	0.44
1:E:4844:LEU:HD11	1:E:4891:VAL:HG13	1.99	0.44
1:E:4931:ILE:O	1:E:4935:LEU:HB2	2.18	0.44
2:F:7:ILE:HD12	2:F:71:ARG:HG2	2.00	0.44
1:G:35:LEU:HD12	1:G:35:LEU:O	2.18	0.44
1:G:685:GLY:O	1:G:780:VAL:HB	2.18	0.44
1:G:4218:ILE:HG22	1:G:4950:VAL:HG13	2.00	0.44
1:A:275:ARG:HA	1:A:338:GLU:OE1	2.17	0.44
1:A:662:TRP:CZ3	1:A:814:ALA:HB2	2.52	0.44
1:A:685:GLY:O	1:A:780:VAL:HB	2.17	0.44
1:A:892:THR:N	1:A:902:ARG:HA	2.30	0.44
1:A:1158:ASN:ND2	1:A:1182:ILE:O	2.50	0.44
1:A:3811:GLU:O	1:A:3814:GLN:HG3	2.18	0.44
1:A:3969:ILE:CG1	1:A:3980:LEU:HD11	2.46	0.44
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.47	0.44
1:C:4056:GLU:O	1:C:4060:LYS:HG2	2.17	0.44
1:C:4181:ILE:HD11	1:C:4193:ILE:HD11	2.00	0.44
1:C:4826:ILE:HG13	1:E:4839:MET:HE1	1.99	0.44
2:D:7:ILE:HD12	2:D:71:ARG:HG2	2.00	0.44
1:E:1598:GLN:O	1:E:1600:LEU:N	2.49	0.44
1:G:234:SER:O	1:G:242:ARG:HG2	2.16	0.44
1:G:372:LEU:O	1:G:374:LYS:N	2.51	0.44
1:G:892:THR:N	1:G:902:ARG:HA	2.30	0.44
1:G:1292:SER:O	1:G:1294:PRO:HD3	2.18	0.44
1:G:4816:ILE:HG13	1:G:4823:LEU:HD22	2.00	0.44
1:G:4921:PHE:HA	1:G:4925:ILE:HG12	2.00	0.44
1:A:235:ALA:HB2	1:A:257:ARG:HD3	1.99	0.44
1:A:314:PHE:HB3	1:A:348:VAL:CG1	2.48	0.44
1:A:2296:GLU:HA	1:A:2299:VAL:HG22	1.99	0.44
1:A:2819:TRP:HH2	1:A:2881:ASN:HB2	1.82	0.44
1:A:4056:GLU:O	1:A:4060:LYS:HG2	2.17	0.44
1:A:4582:VAL:HB	1:A:4628:VAL:HG12	2.00	0.44
1:C:758:ARG:HA	1:C:763:PRO:HA	1.99	0.44
1:C:1158:ASN:ND2	1:C:1182:ILE:O	2.50	0.44
1:C:1201:HIS:CD2	1:C:1202:LEU:H	2.35	0.44
1:C:1638:ALA:HA	1:C:1649:ASP:HA	1.99	0.44
1:C:1848:LEU:O	1:C:1851:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2142:TYR:HE1	1:C:2196:ASN:HD22	1.65	0.44
1:C:2431:ASP:HB2	1:C:2501:SER:HA	2.00	0.44
1:E:35:LEU:HD12	1:E:35:LEU:O	2.18	0.44
1:E:50:GLU:CD	1:E:51:PRO:HD2	2.38	0.44
1:E:438:ILE:HG23	1:E:518:ILE:HD11	1.98	0.44
1:E:941:MET:HA	1:E:1051:TYR:HD1	1.83	0.44
1:E:1292:SER:O	1:E:1294:PRO:HD3	2.18	0.44
1:E:1660:GLN:NE2	1:E:1704:PRO:HB2	2.32	0.44
1:E:2232:CYS:O	1:E:2235:PHE:HB3	2.17	0.44
1:E:2788:HIS:CG	1:E:2789:PRO:HD2	2.53	0.44
1:E:4234:PHE:HZ	1:E:4988:TYR:HB2	1.82	0.44
1:E:4910:GLU:HA	1:E:4913:ARG:HG2	1.99	0.44
1:G:50:GLU:CD	1:G:51:PRO:HD2	2.38	0.44
1:G:275:ARG:HA	1:G:338:GLU:OE1	2.18	0.44
1:G:593:HIS:HA	1:G:1597:VAL:HB	1.99	0.44
1:G:887:ILE:CG2	1:G:962:SER:HB2	2.47	0.44
1:G:2248:ARG:HA	1:G:2286:LEU:HD22	1.99	0.44
1:G:2902:HIS:H	1:G:2905:LEU:HD12	1.83	0.44
1:A:104:GLY:HA2	1:A:150:MET:O	2.18	0.44
1:A:119:SER:HB2	1:A:145:ALA:HB1	2.00	0.44
1:A:121:LEU:O	1:A:133:PHE:HB3	2.18	0.44
1:A:233:ILE:O	1:A:257:ARG:HD2	2.17	0.44
1:A:1143:TRP:HE3	1:A:1144:GLN:O	2.01	0.44
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.98	0.44
1:A:1687:SER:OG	2:B:36:PHE:HB2	2.18	0.44
1:A:1834:VAL:HG13	1:A:1835:GLU:N	2.32	0.44
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.31	0.44
1:A:2358:ILE:CG2	1:C:195:PHE:HE2	2.30	0.44
1:A:4563:ARG:NH1	1:A:4815:ASP:OD1	2.47	0.44
1:A:4581:LYS:HZ3	1:C:4877:ASP:HA	1.83	0.44
1:A:4715:TYR:CG	1:A:4715:TYR:O	2.71	0.44
1:A:4791:TYR:OH	1:A:4815:ASP:HA	2.18	0.44
1:C:14:LEU:HD12	1:C:163:VAL:HG12	1.99	0.44
1:C:672:VAL:O	1:C:680:THR:OG1	2.30	0.44
1:C:833:GLY:HA3	1:C:838:HIS:CD2	2.52	0.44
1:C:1234:VAL:HG12	1:C:1235:THR:O	2.18	0.44
1:C:2232:CYS:O	1:C:2235:PHE:HB3	2.17	0.44
1:C:4931:ILE:O	1:C:4935:LEU:HB2	2.18	0.44
1:C:4984:ASN:O	1:C:4985:LEU:HB2	2.18	0.44
2:D:74:LEU:O	2:D:98:VAL:HA	2.18	0.44
1:E:663:TYR:OH	1:E:802:PHE:O	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1234:VAL:HG12	1:E:1235:THR:O	2.17	0.44
1:E:1858:ASP:O	1:E:1862:ILE:HG12	2.18	0.44
1:E:4791:TYR:OH	1:E:4815:ASP:HA	2.18	0.44
2:F:67:SER:N	2:F:70:GLN:OE1	2.37	0.44
1:G:1082:THR:HG22	1:G:1189:LEU:HG	1.98	0.44
1:G:1687:SER:HG	2:H:36:PHE:HB2	1.83	0.44
1:G:2114:PRO:O	1:G:3704:HIS:NE2	2.39	0.44
1:A:445:LEU:HD23	1:A:521:LEU:HG	2.00	0.44
1:A:862:VAL:HA	1:A:930:LYS:NZ	2.33	0.44
1:A:1074:ILE:HB	1:A:1239:SER:OG	2.18	0.44
1:A:3496:LYS:O	1:A:3513:THR:N	2.51	0.44
1:A:3838:THR:O	1:A:3839:CYS:SG	2.76	0.44
1:A:4910:GLU:HA	1:A:4913:ARG:HG2	2.00	0.44
1:A:4997:ASN:OD1	1:A:4998:LYS:N	2.50	0.44
2:B:22:CYS:O	2:B:47:LYS:HA	2.17	0.44
2:B:67:SER:N	2:B:70:GLN:OE1	2.37	0.44
1:C:411:TYR:O	1:C:415:ILE:HG13	2.18	0.44
1:C:635:THR:OG1	1:C:1638:ALA:O	2.31	0.44
1:C:1655:GLU:OE1	1:C:1655:GLU:N	2.50	0.44
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.99	0.44
1:C:2197:LEU:O	1:C:2201:LEU:HG	2.18	0.44
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.51	0.44
1:C:4582:VAL:HB	1:C:4628:VAL:HG12	2.00	0.44
1:C:4929:LEU:O	1:C:4933:GLN:HG3	2.17	0.44
1:E:569:ILE:HG22	1:E:570:GLU:OE2	2.18	0.44
1:E:1205:GLY:HA3	1:E:1227:ALA:CB	2.43	0.44
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	2.00	0.44
1:E:4251:ILE:HG12	1:E:4553:ASN:HB3	2.00	0.44
2:F:11:ASP:OD1	2:F:67:SER:HB2	2.17	0.44
1:G:71:GLN:O	1:G:107:ILE:HA	2.18	0.44
1:G:73:LEU:O	1:G:105:HIS:HB3	2.17	0.44
1:G:662:TRP:CZ3	1:G:814:ALA:HB2	2.52	0.44
1:G:788:LYS:HD3	1:G:1629:GLN:OE1	2.17	0.44
1:G:1074:ILE:HB	1:G:1239:SER:OG	2.17	0.44
1:G:2244:ARG:NH1	1:G:2285:GLU:OE1	2.50	0.44
1:G:4676:GLU:O	1:G:4680:LYS:HG3	2.17	0.44
1:A:35:LEU:HD13	1:A:49:LEU:HB3	2.00	0.43
1:A:292:ALA:HB3	1:A:302:VAL:HG11	1.99	0.43
1:A:1655:GLU:OE1	1:A:1655:GLU:N	2.51	0.43
1:A:1783:VAL:HG11	2:B:55:VAL:HG12	1.99	0.43
1:A:2460:LEU:HD12	1:C:178:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4251:ILE:HG12	1:A:4553:ASN:HB3	1.99	0.43
1:C:2296:GLU:HA	1:C:2299:VAL:HG22	1.99	0.43
1:C:2924:GLN:O	1:C:2928:LYS:HB2	2.18	0.43
1:C:3916:ILE:O	1:C:3919:THR:HG22	2.18	0.43
1:C:4251:ILE:HG12	1:C:4553:ASN:HB3	2.00	0.43
1:C:4924:VAL:HA	1:C:4928:LEU:HD12	2.00	0.43
1:E:21:VAL:HG12	1:E:65:CYS:O	2.18	0.43
1:E:1201:HIS:CD2	1:E:1202:LEU:H	2.35	0.43
1:E:1586:ASN:O	1:E:1588:ALA:N	2.49	0.43
1:E:1655:GLU:OE1	1:E:1655:GLU:N	2.51	0.43
1:E:1666:THR:O	1:E:1669:LEU:HB3	2.18	0.43
1:E:1834:VAL:HG13	1:E:1835:GLU:N	2.31	0.43
1:E:3838:THR:O	1:E:3839:CYS:SG	2.76	0.43
1:E:4842:GLY:O	1:E:4846:VAL:HG23	2.18	0.43
1:G:21:VAL:HG23	1:G:203:ASN:HB3	1.99	0.43
1:G:748:LEU:HD13	1:G:755:ILE:CG1	2.47	0.43
1:G:1655:GLU:N	1:G:1655:GLU:OE1	2.51	0.43
1:G:1808:ARG:HB2	1:G:1854:PHE:HE1	1.83	0.43
1:G:2137:ALA:HA	1:G:2140:ARG:HH11	1.82	0.43
1:G:4715:TYR:O	1:G:4715:TYR:CG	2.70	0.43
1:A:222:LEU:HB3	1:A:388:LEU:HD22	2.00	0.43
1:A:438:ILE:HG23	1:A:518:ILE:HD11	1.99	0.43
1:A:768:PHE:HB3	1:A:771:PHE:HE2	1.82	0.43
1:A:1858:ASP:O	1:A:1862:ILE:HG12	2.17	0.43
1:A:3501:ASP:HA	1:C:1224:GLU:OE2	2.18	0.43
1:A:3839:CYS:SG	1:A:3922:TYR:CE1	3.11	0.43
1:A:4251:ILE:HG22	1:A:4557:ARG:NH1	2.33	0.43
1:C:104:GLY:HA2	1:C:150:MET:O	2.19	0.43
1:C:1224:GLU:HA	1:C:1225:PRO:HD3	1.63	0.43
1:C:2137:ALA:HA	1:C:2140:ARG:HH11	1.83	0.43
1:C:3970:GLN:HE21	1:C:5004:THR:CA	2.30	0.43
1:C:4214:LYS:HE2	1:C:4985:LEU:HD23	1.99	0.43
1:C:4888:TYR:OH	1:E:4898:GLY:O	2.36	0.43
1:E:21:VAL:HG23	1:E:203:ASN:HB3	1.99	0.43
1:E:706:GLY:H	1:E:711:LEU:HD22	1.83	0.43
1:E:714:TYR:HB2	1:E:757:PHE:CD2	2.53	0.43
1:E:748:LEU:HD21	1:E:777:PHE:HD2	1.82	0.43
1:E:984:LEU:O	1:E:988:LEU:HG	2.18	0.43
1:E:1082:THR:HG22	1:E:1189:LEU:HG	1.98	0.43
1:E:2142:TYR:HE1	1:E:2196:ASN:HD22	1.65	0.43
1:E:2338:ALA:O	1:E:2349:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4735:GLU:O	1:E:4739:GLU:N	2.50	0.43
1:G:314:PHE:HB3	1:G:348:VAL:CG1	2.49	0.43
1:G:454:PRO:HA	1:G:455:PRO:HD3	1.87	0.43
1:G:530:ILE:HG12	1:G:540:PHE:HE2	1.83	0.43
1:G:649:PHE:HB3	1:G:776:LEU:HB3	1.98	0.43
1:G:1858:ASP:O	1:G:1862:ILE:HG12	2.17	0.43
1:G:3786:CYS:SG	1:G:3794:VAL:HG22	2.58	0.43
1:G:3840:SER:OG	1:G:3878:ASP:OD1	2.26	0.43
1:A:21:VAL:HG23	1:A:203:ASN:HB3	1.99	0.43
1:A:290:TYR:HB2	1:A:307:ALA:CB	2.47	0.43
1:A:1201:HIS:CD2	1:A:1202:LEU:H	2.35	0.43
1:A:1224:GLU:OE2	1:G:3501:ASP:CB	2.67	0.43
1:A:2197:LEU:O	1:A:2201:LEU:HG	2.19	0.43
1:A:2556:LEU:HD23	1:A:2559:LEU:CD1	2.47	0.43
1:A:3835:LEU:HD22	1:A:3884:LEU:HD11	2.01	0.43
1:C:203:ASN:OD1	1:C:204:PRO:HD2	2.18	0.43
1:C:276:TRP:CZ3	1:C:338:GLU:HB3	2.54	0.43
1:C:748:LEU:HD13	1:C:755:ILE:CG1	2.47	0.43
1:C:1292:SER:O	1:C:1294:PRO:HD3	2.17	0.43
1:C:3496:LYS:O	1:C:3513:THR:N	2.51	0.43
1:C:3716:LEU:N	1:C:3789:GLU:OE2	2.51	0.43
1:C:3980:LEU:HA	1:C:3983:SER:OG	2.18	0.43
1:C:4578:LEU:HG	1:E:4880:MET:HB2	1.99	0.43
1:C:4826:ILE:HG12	1:E:4839:MET:CE	2.47	0.43
1:C:4834:GLY:O	1:C:4837:LEU:HB3	2.18	0.43
2:D:38:SER:O	2:D:41:ASP:HB2	2.18	0.43
2:D:73:LYS:HA	2:D:99:PHE:O	2.19	0.43
1:E:121:LEU:O	1:E:133:PHE:HB3	2.18	0.43
1:E:530:ILE:HG12	1:E:540:PHE:HE2	1.83	0.43
1:E:758:ARG:HA	1:E:763:PRO:HA	2.00	0.43
1:E:2116:LEU:O	1:E:2120:MET:HG3	2.17	0.43
1:E:2198:MET:HE3	1:E:2203:MET:SD	2.58	0.43
1:E:3496:LYS:O	1:E:3513:THR:N	2.52	0.43
1:G:69:LEU:HD13	1:G:101:LEU:HD11	2.00	0.43
1:G:3914:ASN:OD1	1:G:3916:ILE:HB	2.18	0.43
1:G:4801:LEU:O	1:G:4805:ASN:N	2.45	0.43
1:G:4913:ARG:O	1:G:4917:ASP:N	2.46	0.43
1:A:234:SER:O	1:A:242:ARG:HG2	2.19	0.43
1:A:1087:ARG:HH11	1:A:1223:PHE:HE1	1.65	0.43
1:A:2116:LEU:O	1:A:2120:MET:HG3	2.17	0.43
1:A:3980:LEU:HA	1:A:3983:SER:OG	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.18	0.43
1:A:4984:ASN:O	1:A:4985:LEU:HB2	2.18	0.43
2:B:7:ILE:HD12	2:B:71:ARG:HG2	2.00	0.43
1:C:758:ARG:HH12	1:C:763:PRO:HD3	1.82	0.43
1:C:2173:GLN:CG	1:C:2174:GLU:H	2.21	0.43
1:C:2793:PRO:O	1:C:2796:THR:OG1	2.29	0.43
1:C:3906:GLN:HG2	1:C:3909:ASN:HB2	2.00	0.43
1:E:314:PHE:HB3	1:E:348:VAL:CG1	2.48	0.43
1:E:788:LYS:HB2	1:E:1629:GLN:HG3	2.00	0.43
1:E:1143:TRP:HE3	1:E:1144:GLN:O	2.01	0.43
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.54	0.43
1:E:3839:CYS:SG	1:E:3922:TYR:CE1	3.11	0.43
1:E:3969:ILE:CG1	1:E:3980:LEU:HD11	2.46	0.43
1:E:4984:ASN:O	1:E:4985:LEU:HB2	2.18	0.43
1:E:4991:PHE:O	1:E:4995:LEU:HG	2.18	0.43
2:F:73:LYS:HA	2:F:99:PHE:O	2.19	0.43
1:G:411:TYR:O	1:G:415:ILE:HG13	2.18	0.43
1:G:1666:THR:O	1:G:1669:LEU:HB3	2.19	0.43
1:G:1768:THR:O	1:G:1769:THR:OG1	2.23	0.43
1:G:3969:ILE:CD1	1:G:3980:LEU:HD11	2.48	0.43
1:G:4661:TYR:HA	1:G:4664:LEU:HB3	2.00	0.43
1:G:4887:MET:HA	1:G:4891:VAL:CG2	2.48	0.43
1:A:411:TYR:O	1:A:415:ILE:HG13	2.18	0.43
1:A:569:ILE:HG22	1:A:570:GLU:OE2	2.18	0.43
1:A:660:GLY:HA2	1:A:750:LEU:HD22	2.00	0.43
1:A:748:LEU:HD13	1:A:755:ILE:CG1	2.47	0.43
1:A:858:THR:HG21	1:A:992:GLY:HA2	2.01	0.43
1:A:1074:ILE:HG22	1:A:1075:PHE:N	2.34	0.43
1:A:2745:VAL:HB	1:A:2814:LYS:HB3	1.99	0.43
1:A:2902:HIS:H	1:A:2905:LEU:HD12	1.83	0.43
1:C:50:GLU:CD	1:C:51:PRO:HD2	2.38	0.43
1:C:121:LEU:O	1:C:133:PHE:HB3	2.18	0.43
1:C:706:GLY:H	1:C:711:LEU:HD22	1.83	0.43
1:C:1078:GLU:HB2	1:C:1235:THR:OG1	2.19	0.43
1:C:1152:MET:SD	1:C:1223:PHE:HD2	2.42	0.43
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.19	0.43
1:C:4580:TYR:HB2	1:C:4631:PHE:CD1	2.53	0.43
1:C:4715:TYR:O	1:C:4715:TYR:CG	2.71	0.43
1:E:71:GLN:O	1:E:107:ILE:HA	2.18	0.43
1:E:411:TYR:O	1:E:415:ILE:HG13	2.19	0.43
1:E:758:ARG:HH12	1:E:763:PRO:HD3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1040:CYS:O	1:E:1044:ARG:N	2.52	0.43
1:G:21:VAL:HG12	1:G:65:CYS:O	2.18	0.43
1:G:35:LEU:HD13	1:G:49:LEU:HB3	2.00	0.43
1:G:103:TYR:CE2	1:G:157:ARG:HB3	2.54	0.43
1:G:178:ARG:HB2	1:G:193:ALA:HB1	2.01	0.43
1:G:317:ARG:HG3	1:G:356:TRP:CH2	2.53	0.43
1:G:768:PHE:HB3	1:G:771:PHE:HE2	1.82	0.43
1:G:864:PRO:HG2	1:G:867:LEU:HD12	2.01	0.43
1:G:1091:GLU:HB2	1:G:1203:ASN:O	2.18	0.43
1:G:1201:HIS:CD2	1:G:1202:LEU:H	2.35	0.43
1:G:1685:LEU:HD23	1:G:1685:LEU:HA	1.75	0.43
1:G:2155:LEU:HD13	1:G:2188:ASN:OD1	2.19	0.43
1:G:2272:PRO:O	1:G:2275:VAL:HB	2.18	0.43
1:G:2296:GLU:HA	1:G:2299:VAL:HG22	1.99	0.43
1:G:3962:PHE:HZ	1:G:3992:PHE:CE2	2.36	0.43
1:G:4552:LEU:O	1:G:4555:LEU:HB3	2.18	0.43
1:A:706:GLY:H	1:A:711:LEU:HD22	1.83	0.43
1:A:1040:CYS:O	1:A:1044:ARG:N	2.52	0.43
1:A:1704:PRO:HG2	1:A:1707:LEU:HD12	2.01	0.43
1:A:2142:TYR:CE2	1:A:2197:LEU:HB2	2.54	0.43
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	2.00	0.43
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.47	0.43
1:A:3716:LEU:N	1:A:3789:GLU:OE2	2.51	0.43
1:A:4010:ILE:HA	1:A:4013:LEU:HB3	2.01	0.43
1:A:4581:LYS:HD2	1:C:4856:PHE:CZ	2.50	0.43
1:A:4813:LEU:HD12	1:A:4814:LEU:N	2.34	0.43
1:C:119:SER:HB2	1:C:145:ALA:HB1	2.01	0.43
1:C:569:ILE:HG22	1:C:570:GLU:OE2	2.18	0.43
1:C:1143:TRP:HE3	1:C:1144:GLN:O	2.01	0.43
1:C:1666:THR:O	1:C:1669:LEU:HB3	2.19	0.43
1:E:276:TRP:CZ3	1:E:338:GLU:HB3	2.54	0.43
1:E:372:LEU:O	1:E:374:LYS:N	2.50	0.43
1:E:572:PRO:O	1:E:575:LEU:HB2	2.19	0.43
1:E:623:GLU:OE1	2:F:88:PRO:HA	2.18	0.43
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	2.00	0.43
1:E:1130:GLN:HB2	1:E:1138:PRO:HA	2.00	0.43
1:E:2155:LEU:HD13	1:E:2188:ASN:OD1	2.18	0.43
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.83	0.43
1:E:3835:LEU:HD22	1:E:3884:LEU:HD11	2.00	0.43
1:E:4143:VAL:O	1:E:4147:LEU:HG	2.17	0.43
1:E:4251:ILE:HG22	1:E:4557:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4997:ASN:OD1	1:E:4998:LYS:N	2.51	0.43
1:G:1297:PHE:HB2	1:G:1545:ASN:HA	2.01	0.43
1:G:1930:LYS:HG2	1:G:1931:LEU:N	2.33	0.43
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.18	0.43
1:G:4036:VAL:HG12	1:G:4037:ASN:N	2.34	0.43
1:A:287:THR:O	1:A:405:HIS:CE1	2.72	0.43
1:A:548:VAL:O	1:A:551:LEU:HG	2.18	0.43
1:A:748:LEU:HD21	1:A:777:PHE:HD2	1.83	0.43
1:A:2123:LEU:HA	1:A:2123:LEU:HD23	1.77	0.43
1:A:2137:ALA:HA	1:A:2140:ARG:HH11	1.83	0.43
1:A:2338:ALA:O	1:A:2349:ASN:ND2	2.51	0.43
1:C:633:LEU:HD22	1:C:1663:HIS:HD2	1.84	0.43
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.53	0.43
1:C:3756:LYS:O	1:C:3760:LYS:HB2	2.18	0.43
1:C:3758:MET:HG3	1:C:3759:GLU:N	2.34	0.43
1:E:104:GLY:HA2	1:E:150:MET:O	2.18	0.43
1:E:1074:ILE:HG22	1:E:1075:PHE:N	2.34	0.43
1:E:1091:GLU:HB2	1:E:1203:ASN:O	2.18	0.43
1:E:1514:LEU:HD12	1:E:1514:LEU:N	2.34	0.43
1:E:1930:LYS:HG2	1:E:1931:LEU:N	2.34	0.43
1:E:3716:LEU:N	1:E:3789:GLU:OE2	2.51	0.43
1:E:3906:GLN:HG2	1:E:3909:ASN:HB2	2.01	0.43
1:E:4202:ARG:O	1:E:4206:GLU:HG2	2.19	0.43
1:E:4715:TYR:CG	1:E:4715:TYR:O	2.71	0.43
2:F:38:SER:O	2:F:41:ASP:HB2	2.18	0.43
1:G:561:LEU:CD2	1:G:598:LYS:HB3	2.48	0.43
1:G:569:ILE:HG22	1:G:570:GLU:OE2	2.19	0.43
1:G:714:TYR:HB2	1:G:757:PHE:CD2	2.53	0.43
1:G:748:LEU:HD21	1:G:777:PHE:HD2	1.82	0.43
1:G:1040:CYS:O	1:G:1044:ARG:N	2.51	0.43
1:G:2142:TYR:HE1	1:G:2196:ASN:ND2	2.17	0.43
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.54	0.43
1:G:4988:TYR:O	1:G:4991:PHE:HB3	2.17	0.43
1:A:80:GLU:OE1	1:G:3938:SER:OG	2.35	0.43
1:A:1088:TRP:CZ3	1:A:1226:PHE:HD1	2.36	0.43
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.19	0.43
1:A:4833:ASN:OD1	1:A:4836:GLN:HG2	2.19	0.43
1:C:21:VAL:HG12	1:C:65:CYS:O	2.18	0.43
1:C:71:GLN:O	1:C:107:ILE:HA	2.18	0.43
1:C:222:LEU:HB3	1:C:388:LEU:HD22	2.00	0.43
1:C:593:HIS:HA	1:C:1597:VAL:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:LEU:O	1:C:988:LEU:HG	2.19	0.43
1:C:1687:SER:OG	2:D:36:PHE:HB2	2.19	0.43
1:C:1808:ARG:HB2	1:C:1854:PHE:HE1	1.82	0.43
1:C:4251:ILE:HG22	1:C:4557:ARG:NH1	2.33	0.43
1:C:4910:GLU:HA	1:C:4913:ARG:HG2	2.00	0.43
1:E:245:VAL:HG21	1:E:300:VAL:HA	2.01	0.43
1:E:287:THR:O	1:E:405:HIS:CE1	2.72	0.43
1:E:317:ARG:HG3	1:E:356:TRP:CH2	2.54	0.43
1:E:660:GLY:HA2	1:E:750:LEU:HD22	2.00	0.43
1:E:1835:GLU:OE2	1:E:1935:VAL:HG23	2.18	0.43
1:E:3756:LYS:O	1:E:3760:LYS:HB2	2.19	0.43
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.53	0.43
1:E:4041:ALA:O	1:E:4044:MET:HB3	2.19	0.43
1:E:4645:CYS:O	1:E:4649:LEU:N	2.45	0.43
1:G:1459:GLN:HE21	1:G:1459:GLN:HB2	1.60	0.43
1:G:1676:LEU:HG	1:G:1721:GLU:OE2	2.18	0.43
1:G:1835:GLU:OE2	1:G:1935:VAL:HG23	2.18	0.43
1:G:2360:LYS:HA	1:G:2360:LYS:HD2	1.89	0.43
1:G:3935:TRP:HZ2	1:G:3994:HIS:HE1	1.66	0.43
1:G:4976:GLU:HB2	1:G:4980:LEU:HD12	1.99	0.43
1:G:4983:HIS:C	1:G:4985:LEU:N	2.67	0.43
1:A:717:ASP:CG	2:B:7:ILE:HA	2.39	0.43
1:A:788:LYS:HB2	1:A:1629:GLN:HG3	2.00	0.43
1:C:372:LEU:O	1:C:374:LYS:N	2.51	0.43
1:C:685:GLY:O	1:C:780:VAL:HB	2.18	0.43
1:C:1723:ALA:O	1:C:1727:ARG:HB2	2.19	0.43
1:C:2155:LEU:HD13	1:C:2188:ASN:OD1	2.19	0.43
1:C:2902:HIS:H	1:C:2905:LEU:HD12	1.83	0.43
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.24	0.43
1:C:4039:MET:HG3	1:C:4040:ILE:N	2.34	0.43
1:C:4802:GLY:HA2	1:C:4809:PHE:HB2	2.00	0.43
1:E:60:PRO:O	1:E:290:TYR:OH	2.33	0.43
1:E:203:ASN:OD1	1:E:204:PRO:HD2	2.18	0.43
1:E:702:TRP:HZ2	1:E:1640:HIS:HD1	1.67	0.43
1:E:1087:ARG:HH11	1:E:1223:PHE:HE1	1.65	0.43
1:E:1848:LEU:HD12	1:E:1851:MET:SD	2.59	0.43
1:E:4826:ILE:O	1:E:4829:SER:HB2	2.18	0.43
1:E:4851:TYR:HB3	1:E:4916:PHE:CZ	2.53	0.43
1:G:104:GLY:HA2	1:G:150:MET:O	2.19	0.43
1:G:572:PRO:O	1:G:575:LEU:HB2	2.19	0.43
1:G:758:ARG:HH12	1:G:763:PRO:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1078:GLU:HB2	1:G:1235:THR:OG1	2.18	0.43
1:G:1110:ARG:HB2	1:G:1113:VAL:HG23	2.01	0.43
1:G:1152:MET:SD	1:G:1223:PHE:HD2	2.42	0.43
1:G:2424:SER:HA	1:G:2427:ALA:HB3	2.00	0.43
1:G:3877:ASP:O	1:G:3880:PHE:HB3	2.19	0.43
1:G:4555:LEU:HD11	1:G:4656:LEU:HG	1.99	0.43
1:G:4737:ILE:O	1:G:4740:LEU:HB3	2.19	0.43
1:A:21:VAL:HG12	1:A:65:CYS:O	2.18	0.43
1:A:116:MET:HE2	1:A:139:GLU:OE2	2.19	0.43
1:A:179:TYR:OH	1:G:2359:ARG:CZ	2.66	0.43
1:A:317:ARG:HG3	1:A:356:TRP:CH2	2.53	0.43
1:A:864:PRO:HG2	1:A:867:LEU:HD12	2.01	0.43
1:A:1930:LYS:HG2	1:A:1931:LEU:N	2.33	0.43
1:A:4039:MET:HG3	1:A:4040:ILE:N	2.34	0.43
1:A:4843:LEU:O	1:A:4847:VAL:HG23	2.18	0.43
2:B:73:LYS:HA	2:B:99:PHE:O	2.19	0.43
1:C:287:THR:O	1:C:405:HIS:CE1	2.72	0.43
1:C:1287:LEU:HD13	1:C:1556:PRO:HD3	2.01	0.43
1:C:4836:GLN:HB3	1:C:4935:LEU:HD11	2.00	0.43
1:C:4887:MET:HA	1:C:4891:VAL:HG23	1.99	0.43
1:E:103:TYR:CE2	1:E:157:ARG:HB3	2.54	0.43
1:E:178:ARG:HB2	1:E:193:ALA:HB1	2.01	0.43
1:E:222:LEU:HB3	1:E:388:LEU:HD22	2.00	0.43
1:E:445:LEU:HD23	1:E:521:LEU:HG	2.01	0.43
1:E:647:ASN:N	1:E:822:ARG:O	2.52	0.43
1:E:717:ASP:CG	2:F:7:ILE:HA	2.39	0.43
1:E:737:LEU:HD11	2:F:7:ILE:CG2	2.44	0.43
1:E:1152:MET:SD	1:E:1223:PHE:HD2	2.42	0.43
1:E:1294:PRO:O	1:E:1584:ARG:NE	2.52	0.43
1:E:1440:PHE:CB	1:E:1512:THR:HG22	2.49	0.43
1:E:1691:GLN:O	1:E:1695:LEU:HG	2.19	0.43
1:E:3758:MET:HG3	1:E:3759:GLU:N	2.34	0.43
1:E:4181:ILE:HD11	1:E:4193:ILE:HD11	2.01	0.43
1:E:4826:ILE:HD11	1:G:4839:MET:CE	2.48	0.43
1:E:4836:GLN:HB3	1:E:4935:LEU:HD11	2.01	0.43
1:E:4892:ARG:HG3	1:G:4921:PHE:CE1	2.54	0.43
1:E:4920:PHE:O	1:E:4924:VAL:HB	2.19	0.43
1:G:145:ALA:HA	1:G:175:SER:HB3	2.01	0.43
1:G:317:ARG:N	1:G:347:PHE:O	2.52	0.43
1:G:758:ARG:HA	1:G:763:PRO:HA	2.01	0.43
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1762:LEU:HD21	1:G:1860:LYS:NZ	2.34	0.43
1:G:2123:LEU:HD23	1:G:2123:LEU:HA	1.72	0.43
1:G:2197:LEU:O	1:G:2201:LEU:HG	2.19	0.43
1:G:3817:LEU:HD11	1:G:3821:LYS:HE2	2.00	0.43
1:G:4183:ILE:HD13	1:G:4193:ILE:HD13	2.01	0.43
1:A:50:GLU:CD	1:A:51:PRO:HD2	2.38	0.42
1:A:1078:GLU:HB2	1:A:1235:THR:OG1	2.18	0.42
1:A:2500:ALA:HA	1:A:2556:LEU:HD21	2.01	0.42
1:A:2876:GLU:OE2	1:A:2916:LYS:HD3	2.19	0.42
1:A:3758:MET:HG3	1:A:3759:GLU:N	2.34	0.42
1:A:4059:LEU:HA	1:A:4062:PHE:HD2	1.84	0.42
1:A:4218:ILE:HG22	1:A:4950:VAL:HG13	2.01	0.42
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.19	0.42
2:B:38:SER:O	2:B:41:ASP:HB2	2.18	0.42
1:C:21:VAL:HG23	1:C:203:ASN:HB3	1.99	0.42
1:C:445:LEU:HD23	1:C:521:LEU:HG	2.01	0.42
1:C:717:ASP:CG	2:D:7:ILE:HA	2.39	0.42
1:C:788:LYS:HB2	1:C:1629:GLN:HG3	2.00	0.42
1:C:1074:ILE:HG22	1:C:1075:PHE:N	2.34	0.42
1:C:1294:PRO:O	1:C:1584:ARG:NE	2.52	0.42
1:C:1845:VAL:HG13	1:C:1854:PHE:HE2	1.84	0.42
1:C:1855:GLY:O	1:C:1858:ASP:HB2	2.19	0.42
1:C:2458:ARG:O	1:C:2464:ASP:N	2.52	0.42
1:C:4059:LEU:HA	1:C:4062:PHE:HD2	1.84	0.42
1:C:4208:PRO:HG2	1:C:4210:VAL:HG23	2.01	0.42
1:C:4791:TYR:OH	1:C:4815:ASP:HA	2.19	0.42
1:E:317:ARG:N	1:E:347:PHE:O	2.52	0.42
1:E:561:LEU:CD2	1:E:598:LYS:HB3	2.48	0.42
1:E:1723:ALA:O	1:E:1727:ARG:HB2	2.19	0.42
1:E:4010:ILE:HA	1:E:4013:LEU:HB3	2.01	0.42
1:G:233:ILE:O	1:G:257:ARG:HD2	2.18	0.42
1:G:642:THR:OG1	1:G:1617:THR:HG21	2.19	0.42
1:G:984:LEU:O	1:G:988:LEU:HG	2.18	0.42
1:G:1087:ARG:HH11	1:G:1223:PHE:HE1	1.65	0.42
1:G:1130:GLN:HB2	1:G:1138:PRO:HA	2.00	0.42
1:G:1294:PRO:O	1:G:1584:ARG:NE	2.52	0.42
1:G:2094:LEU:O	1:G:2098:VAL:HG23	2.19	0.42
1:G:2556:LEU:HD23	1:G:2559:LEU:CD1	2.49	0.42
1:G:3724:ALA:O	1:G:3727:ASP:HB2	2.19	0.42
1:G:3933:PHE:O	1:G:3937:TYR:HD2	2.01	0.42
1:G:4033:GLY:HA2	1:G:4189:ARG:NH1	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4582:VAL:HB	1:G:4628:VAL:HG12	2.01	0.42
1:A:984:LEU:O	1:A:988:LEU:HG	2.19	0.42
1:A:1152:MET:SD	1:A:1223:PHE:HD2	2.42	0.42
1:A:2155:LEU:HD13	1:A:2188:ASN:OD1	2.19	0.42
1:A:4851:TYR:HB3	1:A:4916:PHE:CZ	2.54	0.42
1:A:4898:GLY:CA	1:G:4888:TYR:OH	2.67	0.42
1:A:4920:PHE:O	1:A:4924:VAL:HB	2.20	0.42
1:C:548:VAL:O	1:C:551:LEU:HG	2.18	0.42
1:C:771:PHE:HE1	1:C:1472:VAL:HG13	1.84	0.42
1:C:1586:ASN:O	1:C:1588:ALA:N	2.49	0.42
1:C:1768:THR:C	1:C:1769:THR:HG1	2.20	0.42
1:C:1858:ASP:O	1:C:1862:ILE:HG12	2.18	0.42
1:C:2424:SER:HA	1:C:2427:ALA:HB3	2.01	0.42
1:C:2500:ALA:HA	1:C:2556:LEU:HD21	2.00	0.42
1:E:514:SER:O	1:E:518:ILE:HG13	2.19	0.42
1:E:548:VAL:O	1:E:551:LEU:HG	2.18	0.42
1:E:607:CYS:HB2	1:E:1672:ALA:HB1	2.01	0.42
1:E:771:PHE:HE1	1:E:1472:VAL:HG13	1.84	0.42
1:E:1087:ARG:HD2	1:E:1223:PHE:CE1	2.54	0.42
1:E:1689:VAL:HG22	1:E:1694:LEU:HD11	2.01	0.42
1:E:2137:ALA:HA	1:E:2140:ARG:HH11	1.83	0.42
1:E:2197:LEU:O	1:E:2201:LEU:HG	2.18	0.42
1:E:4055:VAL:O	1:E:4059:LEU:HG	2.19	0.42
1:G:340:LYS:HG3	1:G:342:GLY:N	2.35	0.42
1:G:660:GLY:HA2	1:G:750:LEU:HD22	2.01	0.42
1:G:828:GLU:HG3	1:G:840:VAL:HG21	2.01	0.42
1:G:1687:SER:OG	2:H:36:PHE:HB2	2.20	0.42
1:G:4141:PHE:CE1	1:G:4178:LEU:HA	2.54	0.42
1:A:178:ARG:CZ	1:G:2460:LEU:HD12	2.49	0.42
1:A:203:ASN:OD1	1:A:204:PRO:HD2	2.18	0.42
1:A:533:ASN:OD1	1:A:535:ALA:N	2.42	0.42
1:A:1835:GLU:OE2	1:A:1935:VAL:HG23	2.18	0.42
1:A:3916:ILE:O	1:A:3919:THR:HG22	2.19	0.42
1:A:4013:LEU:O	1:A:4017:LEU:HG	2.19	0.42
1:A:4582:VAL:HG12	1:A:4629:TYR:HD1	1.85	0.42
1:A:4717:ASP:O	1:A:4719:PHE:N	2.48	0.42
1:C:314:PHE:HB3	1:C:348:VAL:CG1	2.49	0.42
1:C:1091:GLU:HB2	1:C:1203:ASN:O	2.18	0.42
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	2.00	0.42
1:C:5022:PHE:HA	1:C:5023:PRO:HD3	1.93	0.42
1:E:520:ASN:HB2	1:E:556:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:593:HIS:HA	1:E:1597:VAL:HB	2.00	0.42
1:E:633:LEU:HD22	1:E:1663:HIS:HD2	1.85	0.42
1:E:887:ILE:CG2	1:E:962:SER:HB2	2.48	0.42
1:E:1227:ALA:HA	1:E:1230:MET:HG2	2.01	0.42
1:E:1459:GLN:HE21	1:E:1459:GLN:HB2	1.54	0.42
1:E:1943:LEU:HD11	1:E:2098:VAL:HG22	2.00	0.42
1:E:2431:ASP:HB2	1:E:2501:SER:HA	2.01	0.42
1:E:3916:ILE:O	1:E:3919:THR:HG22	2.19	0.42
1:E:4034:ASN:HD21	1:E:4040:ILE:CG2	2.33	0.42
1:E:4041:ALA:O	1:E:4045:VAL:HG23	2.20	0.42
1:E:4073:GLY:H	1:E:4128:PHE:HE2	1.68	0.42
1:E:4214:LYS:HE2	1:E:4985:LEU:HD23	1.99	0.42
1:E:4710:SER:OG	1:E:4772:ASP:OD2	2.35	0.42
1:G:245:VAL:HG21	1:G:300:VAL:HA	2.01	0.42
1:G:670:GLU:O	1:G:787:VAL:HG13	2.19	0.42
1:G:788:LYS:HB2	1:G:1629:GLN:HG3	2.00	0.42
1:G:927:GLU:O	1:G:930:LYS:HB2	2.19	0.42
1:G:1074:ILE:HG22	1:G:1075:PHE:N	2.34	0.42
1:G:4013:LEU:O	1:G:4017:LEU:N	2.52	0.42
1:G:4118:ASP:O	1:G:4120:ASN:N	2.52	0.42
1:G:4832:HIS:CE1	1:G:4833:ASN:HB2	2.54	0.42
2:H:7:ILE:HG13	2:H:73:LYS:N	2.35	0.42
2:H:11:ASP:OD2	2:H:68:VAL:HB	2.20	0.42
1:A:14:LEU:HD12	1:A:163:VAL:HG12	2.00	0.42
1:A:71:GLN:O	1:A:107:ILE:HA	2.18	0.42
1:A:359:TYR:OH	1:A:385:ASP:OD2	2.28	0.42
1:A:737:LEU:HB3	1:A:738:LEU:H	1.56	0.42
1:A:1676:LEU:HG	1:A:1721:GLU:OE2	2.19	0.42
2:B:92:PRO:HA	2:B:93:PRO:HD3	1.91	0.42
1:C:35:LEU:HD13	1:C:49:LEU:HB3	2.00	0.42
1:C:103:TYR:CE2	1:C:157:ARG:HB3	2.54	0.42
1:C:245:VAL:HG21	1:C:300:VAL:HA	2.01	0.42
1:C:1040:CYS:O	1:C:1044:ARG:N	2.52	0.42
1:C:1130:GLN:HB2	1:C:1138:PRO:HA	2.00	0.42
1:C:1864:LYS:NZ	1:C:1869:GLU:C	2.73	0.42
1:C:2338:ALA:O	1:C:2349:ASN:ND2	2.52	0.42
1:C:4013:LEU:O	1:C:4017:LEU:HG	2.19	0.42
1:C:4653:VAL:O	1:C:4657:CYS:N	2.45	0.42
1:C:4920:PHE:O	1:C:4924:VAL:HB	2.19	0.42
1:E:1133:HIS:CE1	1:E:1134:LEU:HG	2.55	0.42
1:E:1687:SER:OG	2:F:36:PHE:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2359:ARG:CZ	1:G:179:TYR:OH	2.67	0.42
1:G:1227:ALA:HA	1:G:1230:MET:HG2	2.01	0.42
1:G:1855:GLY:O	1:G:1858:ASP:HB2	2.19	0.42
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.54	0.42
1:G:2806:ARG:HB3	1:G:2810:LYS:HE3	2.01	0.42
1:G:4137:ARG:HD2	1:G:4177:TYR:CE2	2.55	0.42
1:G:4997:ASN:OD1	1:G:4998:LYS:N	2.52	0.42
1:A:771:PHE:HE1	1:A:1472:VAL:HG13	1.84	0.42
1:A:1119:GLU:C	1:A:1133:HIS:HE2	2.22	0.42
1:A:1452:TRP:HB3	1:A:1550:PRO:HA	2.02	0.42
1:A:2258:LEU:HA	1:A:2261:SER:OG	2.20	0.42
1:A:2431:ASP:HB2	1:A:2501:SER:HA	2.01	0.42
1:A:3718:GLU:HG3	1:A:3719:ASP:N	2.35	0.42
1:A:4073:GLY:H	1:A:4128:PHE:HE2	1.67	0.42
1:A:4826:ILE:CG1	1:C:4839:MET:CE	2.98	0.42
1:A:5004:THR:O	1:A:5007:GLU:HG2	2.20	0.42
2:B:42:ARG:C	2:B:44:LYS:H	2.23	0.42
2:B:74:LEU:O	2:B:98:VAL:HA	2.18	0.42
1:C:702:TRP:HZ2	1:C:1640:HIS:HD1	1.68	0.42
1:C:1835:GLU:OE2	1:C:1935:VAL:HG23	2.18	0.42
1:C:1857:GLU:O	1:C:1860:LYS:HB2	2.20	0.42
1:C:3811:GLU:HG2	1:C:3812:VAL:N	2.35	0.42
2:D:16:PRO:HG3	2:D:106:LEU:HD21	2.02	0.42
1:E:35:LEU:HD13	1:E:49:LEU:HB3	2.00	0.42
1:E:1808:ARG:HB2	1:E:1854:PHE:HE1	1.84	0.42
1:G:287:THR:O	1:G:405:HIS:CE1	2.72	0.42
1:G:514:SER:O	1:G:518:ILE:HG13	2.19	0.42
1:G:548:VAL:O	1:G:551:LEU:HG	2.19	0.42
1:G:580:GLU:HB3	1:G:620:LEU:HD11	2.02	0.42
1:G:1799:SER:HA	1:G:1800:PRO:HD2	1.92	0.42
1:G:2819:TRP:HH2	1:G:2881:ASN:HB2	1.84	0.42
1:G:2879:ALA:HB2	1:G:2920:ARG:HA	2.00	0.42
1:G:3968:TYR:O	1:G:3976:ASN:ND2	2.52	0.42
1:G:4219:PHE:O	1:G:4223:ASN:HB2	2.19	0.42
1:G:4789:PHE:O	1:G:4793:GLY:N	2.46	0.42
1:A:178:ARG:HB2	1:A:193:ALA:HB1	2.01	0.42
1:A:216:GLY:HA3	1:A:264:PRO:CD	2.50	0.42
1:A:245:VAL:HG21	1:A:300:VAL:HA	2.00	0.42
1:A:276:TRP:CZ3	1:A:338:GLU:HB3	2.54	0.42
1:A:1834:VAL:HG13	1:A:1835:GLU:H	1.85	0.42
1:A:2745:VAL:CG2	1:A:2818:ALA:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.55	0.42
1:A:3756:LYS:O	1:A:3760:LYS:HB2	2.19	0.42
1:A:3970:GLN:HE21	1:A:5004:THR:CA	2.29	0.42
1:A:4888:TYR:OH	1:C:4898:GLY:O	2.38	0.42
1:C:402:ARG:NH1	1:C:405:HIS:CD2	2.86	0.42
1:C:1110:ARG:HB2	1:C:1113:VAL:HG23	2.00	0.42
1:C:1459:GLN:HE21	1:C:1459:GLN:HB2	1.56	0.42
1:C:1676:LEU:HG	1:C:1721:GLU:OE2	2.19	0.42
1:C:1819:VAL:HG22	1:C:1926:LEU:HD13	2.01	0.42
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.54	0.42
1:C:3732:SER:HB2	1:C:3766:GLN:HB3	2.02	0.42
1:C:4876:CYS:HB2	1:C:4877:ASP:H	1.54	0.42
1:C:4944:ARG:O	1:C:4947:GLN:HB2	2.20	0.42
1:C:4978:HIS:ND1	1:C:4982:GLU:OE1	2.53	0.42
1:E:864:PRO:HG2	1:E:867:LEU:HD12	2.01	0.42
1:E:1297:PHE:HB2	1:E:1545:ASN:HA	2.01	0.42
1:E:2460:LEU:HD21	1:G:131:LEU:HB2	2.01	0.42
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.55	0.42
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.20	0.42
1:E:4826:ILE:HG12	1:G:4839:MET:HE1	2.00	0.42
1:E:4941:GLY:O	1:E:4945:ASP:HB2	2.19	0.42
1:G:276:TRP:CZ3	1:G:338:GLU:HB3	2.54	0.42
1:G:706:GLY:H	1:G:711:LEU:HD22	1.84	0.42
1:G:1087:ARG:HD2	1:G:1223:PHE:CE1	2.55	0.42
1:G:1723:ALA:O	1:G:1727:ARG:HB2	2.19	0.42
1:G:2338:ALA:O	1:G:2349:ASN:ND2	2.52	0.42
1:G:2458:ARG:O	1:G:2464:ASP:N	2.53	0.42
1:G:3806:ASN:OD1	1:G:3807:GLY:N	2.52	0.42
1:G:4048:LEU:HA	1:G:4051:SER:OG	2.20	0.42
1:G:4055:VAL:O	1:G:4059:LEU:HG	2.19	0.42
1:G:4582:VAL:HG12	1:G:4629:TYR:HD1	1.84	0.42
1:G:4639:MET:HG3	1:G:4640:GLU:N	2.34	0.42
1:G:4792:LEU:O	1:G:4795:TYR:HB3	2.19	0.42
1:A:317:ARG:N	1:A:347:PHE:O	2.52	0.42
1:A:828:GLU:HG3	1:A:840:VAL:HG21	2.01	0.42
1:A:910:PHE:CG	1:A:918:ARG:HB3	2.55	0.42
1:A:1091:GLU:HB2	1:A:1203:ASN:O	2.19	0.42
1:A:1762:LEU:HD21	1:A:1860:LYS:NZ	2.34	0.42
1:A:2430:ILE:HG23	1:A:2501:SER:HB2	2.01	0.42
1:A:4710:SER:OG	1:A:4772:ASP:OD2	2.36	0.42
1:A:4914:VAL:O	1:A:4918:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4921:PHE:HA	1:A:4925:ILE:CG1	2.49	0.42
1:C:178:ARG:HB2	1:C:193:ALA:HB1	2.01	0.42
1:C:647:ASN:N	1:C:822:ARG:O	2.52	0.42
1:C:660:GLY:HA2	1:C:750:LEU:HD22	2.01	0.42
1:C:758:ARG:HD3	1:C:761:GLY:HA2	2.02	0.42
1:C:1087:ARG:HD2	1:C:1223:PHE:CE1	2.54	0.42
1:C:1648:MET:SD	1:C:1656:ARG:NH2	2.92	0.42
1:C:2123:LEU:HD23	1:C:2123:LEU:HA	1.77	0.42
1:C:3651:ASN:HA	1:C:3654:LEU:HD12	2.02	0.42
1:C:4073:GLY:H	1:C:4128:PHE:HE2	1.68	0.42
1:C:4717:ASP:O	1:C:4719:PHE:N	2.48	0.42
1:E:145:ALA:HA	1:E:175:SER:HB3	2.02	0.42
1:E:175:SER:OG	1:E:176:SER:N	2.53	0.42
1:E:1099:GLU:H	1:E:1198:GLN:NE2	2.18	0.42
1:E:1110:ARG:HB2	1:E:1113:VAL:HG23	2.01	0.42
1:E:1768:THR:C	1:E:1769:THR:HG1	2.18	0.42
1:E:4208:PRO:HG2	1:E:4210:VAL:HG23	2.02	0.42
1:G:102:LEU:HD23	1:G:162:LYS:HA	2.01	0.42
1:G:222:LEU:HB3	1:G:388:LEU:HD22	2.00	0.42
1:G:771:PHE:HE1	1:G:1472:VAL:HG13	1.84	0.42
1:G:1848:LEU:HD12	1:G:1851:MET:SD	2.59	0.42
1:G:2431:ASP:HB2	1:G:2501:SER:HA	2.00	0.42
1:G:2821:TRP:CD1	1:G:2939:ARG:HA	2.55	0.42
1:G:4090:LYS:CB	1:G:4112:LEU:HD21	2.50	0.42
1:G:4949:GLN:NE2	1:G:4953:ASP:OD1	2.52	0.42
2:H:92:PRO:HA	2:H:93:PRO:HD3	1.89	0.42
1:A:175:SER:OG	1:A:176:SER:N	2.53	0.42
1:A:514:SER:O	1:A:518:ILE:HG13	2.19	0.42
1:A:537:CYS:HB3	1:A:571:SER:HB3	2.02	0.42
1:A:647:ASN:N	1:A:822:ARG:O	2.53	0.42
1:A:1689:VAL:HG22	1:A:1694:LEU:HD11	2.01	0.42
1:A:3651:ASN:HA	1:A:3654:LEU:HD12	2.02	0.42
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.19	0.42
1:A:4208:PRO:HG2	1:A:4210:VAL:HG23	2.01	0.42
1:A:4834:GLY:O	1:A:4837:LEU:HB3	2.20	0.42
1:A:5011:TRP:O	1:A:5015:GLN:HG2	2.20	0.42
1:C:116:MET:HE2	1:C:139:GLU:OE2	2.20	0.42
1:C:1237:TRP:CD1	1:C:1611:HIS:HA	2.55	0.42
1:C:1654:SER:HB2	1:C:1704:PRO:HB3	2.02	0.42
1:C:1762:LEU:HD21	1:C:1860:LYS:NZ	2.35	0.42
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2258:LEU:HA	1:C:2261:SER:OG	2.20	0.42
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.68	0.42
1:C:3838:THR:C	1:C:3839:CYS:SG	2.98	0.42
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.19	0.42
1:E:670:GLU:O	1:E:787:VAL:HG13	2.19	0.42
1:E:1654:SER:HB2	1:E:1704:PRO:HB3	2.02	0.42
1:E:1779:PRO:HA	1:E:1780:PRO:HD3	1.78	0.42
1:E:1819:VAL:HG22	1:E:1926:LEU:HD13	2.02	0.42
1:E:1834:VAL:HG13	1:E:1835:GLU:H	1.84	0.42
1:E:2437:ALA:HB1	1:E:2454:ARG:NE	2.35	0.42
1:E:4717:ASP:O	1:E:4719:PHE:N	2.48	0.42
1:E:4887:MET:HA	1:E:4891:VAL:CG2	2.49	0.42
1:G:78:LEU:HA	1:G:81:MET:HG2	2.02	0.42
1:G:119:SER:HB2	1:G:145:ALA:HB1	2.01	0.42
1:G:633:LEU:HD22	1:G:1663:HIS:HD2	1.84	0.42
1:G:1133:HIS:CE1	1:G:1134:LEU:HG	2.55	0.42
1:G:1648:MET:SD	1:G:1656:ARG:NH2	2.93	0.42
1:G:1748:PHE:HA	1:G:1749:PRO:HD2	1.75	0.42
1:G:1783:VAL:HG11	2:H:55:VAL:HG12	2.02	0.42
1:G:2110:TYR:O	1:G:2110:TYR:CD2	2.73	0.42
1:G:2199:ARG:NE	1:G:2249:SER:OG	2.51	0.42
1:G:2258:LEU:HA	1:G:2261:SER:OG	2.20	0.42
1:G:4088:ILE:O	1:G:4123:ILE:N	2.45	0.42
1:G:4990:PHE:O	1:G:4993:MET:HG2	2.19	0.42
1:A:69:LEU:HD13	1:A:101:LEU:HD11	2.00	0.42
1:A:145:ALA:HA	1:A:175:SER:HB3	2.02	0.42
1:A:1245:PHE:CE2	1:A:1646:ARG:NH1	2.88	0.42
1:A:1287:LEU:HD13	1:A:1556:PRO:HD3	2.02	0.42
1:A:1654:SER:HB2	1:A:1704:PRO:HB3	2.02	0.42
1:A:1666:THR:O	1:A:1669:LEU:HB3	2.19	0.42
1:A:1855:GLY:O	1:A:1858:ASP:HB2	2.19	0.42
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.19	0.42
1:A:4839:MET:HE2	1:G:4826:ILE:CG1	2.50	0.42
1:A:4887:MET:HA	1:A:4891:VAL:CG2	2.50	0.42
1:C:102:LEU:HD23	1:C:162:LYS:HA	2.02	0.42
1:C:317:ARG:HG3	1:C:356:TRP:CH2	2.54	0.42
1:C:572:PRO:O	1:C:575:LEU:HB2	2.19	0.42
1:C:1099:GLU:H	1:C:1198:GLN:NE2	2.18	0.42
1:C:1729:SER:HB2	1:C:2163:ARG:HH11	1.82	0.42
1:C:4036:VAL:HG12	1:C:4037:ASN:N	2.35	0.42
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:454:PRO:HA	1:E:455:PRO:HD3	1.86	0.42
1:E:1078:GLU:HB2	1:E:1235:THR:OG1	2.18	0.42
1:E:1855:GLY:O	1:E:1858:ASP:HB2	2.19	0.42
1:E:1856:ASP:H	1:E:1857:GLU:CB	2.30	0.42
1:E:2258:LEU:HA	1:E:2261:SER:OG	2.20	0.42
1:E:2358:ILE:HG21	1:G:195:PHE:CE2	2.55	0.42
1:E:3811:GLU:HG2	1:E:3812:VAL:N	2.35	0.42
1:E:3838:THR:C	1:E:3839:CYS:SG	2.98	0.42
1:E:3933:PHE:O	1:E:3937:TYR:HD2	2.03	0.42
1:E:4636:THR:O	1:E:4639:MET:HE2	2.20	0.42
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.20	0.42
1:G:828:GLU:OE2	1:G:831:ARG:HA	2.20	0.42
1:G:975:VAL:HG21	1:G:1044:ARG:CB	2.47	0.42
1:G:1616:GLU:HG3	1:G:1617:THR:HG23	2.02	0.42
1:G:1864:LYS:NZ	1:G:1869:GLU:C	2.73	0.42
1:G:2745:VAL:HB	1:G:2814:LYS:HB3	2.00	0.42
1:G:3703:LEU:HD23	1:G:3703:LEU:O	2.19	0.42
1:A:246:TYR:CE2	1:A:373:LYS:HD3	2.54	0.42
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	2.00	0.42
1:A:1133:HIS:CE1	1:A:1134:LEU:HG	2.55	0.42
1:A:1648:MET:SD	1:A:1656:ARG:NH2	2.93	0.42
1:A:1808:ARG:HB2	1:A:1854:PHE:HE1	1.83	0.42
1:A:1945:TYR:O	1:A:1949:GLN:HG2	2.20	0.42
1:A:2424:SER:HA	1:A:2427:ALA:HB3	2.01	0.42
1:A:3881:THR:O	1:A:3885:PHE:HD2	2.03	0.42
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.53	0.42
1:A:4041:ALA:O	1:A:4044:MET:HB3	2.19	0.42
1:A:4823:LEU:HG	1:A:4826:ILE:HD12	2.01	0.42
1:A:4842:GLY:O	1:A:4846:VAL:HG23	2.20	0.42
1:C:828:GLU:HG3	1:C:840:VAL:HG21	2.01	0.42
1:C:927:GLU:O	1:C:930:LYS:HB2	2.20	0.42
1:C:1288:PHE:O	1:C:1603:VAL:HG13	2.20	0.42
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	2.01	0.42
1:C:2876:GLU:OE2	1:C:2916:LYS:HD3	2.20	0.42
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.54	0.42
1:C:4041:ALA:O	1:C:4045:VAL:HG23	2.20	0.42
1:E:119:SER:HB2	1:E:145:ALA:HB1	2.01	0.42
1:E:1783:VAL:HG11	2:F:55:VAL:HG12	2.01	0.42
1:E:2463:LEU:N	1:E:2510:TYR:OH	2.50	0.42
1:E:2806:ARG:HB3	1:E:2810:LYS:HE3	2.02	0.42
1:E:4154:VAL:HA	1:E:4155:PRO:HD2	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:CYS:HB3	1:G:571:SER:HB3	2.02	0.42
1:G:612:VAL:HA	1:G:2167:ILE:HG23	2.02	0.42
1:G:1452:TRP:HB3	1:G:1550:PRO:HA	2.02	0.42
1:G:1748:PHE:HE1	1:G:2072:LEU:C	2.23	0.42
1:G:1857:GLU:O	1:G:1860:LYS:HB2	2.20	0.42
1:G:3774:GLY:HA2	1:G:3815:LYS:HZ1	1.85	0.42
1:G:3980:LEU:HA	1:G:3983:SER:CB	2.50	0.42
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.20	0.42
1:G:5006:GLN:O	1:G:5010:VAL:HG23	2.19	0.42
1:A:2359:ARG:CZ	1:C:179:TYR:OH	2.68	0.41
1:A:2449:GLU:O	1:A:2452:ARG:HB2	2.20	0.41
1:A:4041:ALA:O	1:A:4045:VAL:HG23	2.20	0.41
1:C:40:GLU:OE2	1:C:406:SER:HB2	2.20	0.41
1:C:246:TYR:CE2	1:C:373:LYS:HD3	2.55	0.41
1:C:346:CYS:O	1:C:388:LEU:HB2	2.19	0.41
1:C:582:HIS:O	1:C:585:SER:HB2	2.20	0.41
1:C:1245:PHE:CE2	1:C:1646:ARG:NH1	2.88	0.41
1:C:1294:PRO:CD	1:C:1584:ARG:HH11	2.19	0.41
1:C:1297:PHE:HB2	1:C:1545:ASN:HA	2.02	0.41
1:C:1457:TYR:O	1:C:1458:HIS:CG	2.73	0.41
1:C:2142:TYR:CD2	1:C:2197:LEU:HD12	2.55	0.41
1:C:2558:VAL:O	1:C:2561:LEU:HG	2.20	0.41
1:C:2887:GLY:O	1:C:2891:LYS:HG3	2.20	0.41
1:C:3881:THR:O	1:C:3885:PHE:HD2	2.03	0.41
1:C:4710:SER:OG	1:C:4772:ASP:OD2	2.36	0.41
1:C:4892:ARG:CZ	1:E:4896:GLY:CA	2.87	0.41
1:E:78:LEU:HA	1:E:81:MET:HG2	2.02	0.41
1:E:1119:GLU:C	1:E:1133:HIS:HE2	2.22	0.41
1:E:1452:TRP:HB3	1:E:1550:PRO:HA	2.02	0.41
1:E:2458:ARG:O	1:E:2464:ASP:N	2.53	0.41
1:E:4208:PRO:HB2	1:E:4209:GLN:H	1.61	0.41
1:E:5011:TRP:O	1:E:5015:GLN:HG2	2.20	0.41
1:G:445:LEU:HD23	1:G:521:LEU:HG	2.01	0.41
1:G:582:HIS:O	1:G:585:SER:HB2	2.20	0.41
1:G:758:ARG:HD3	1:G:761:GLY:HA2	2.01	0.41
1:G:910:PHE:CG	1:G:918:ARG:HB3	2.55	0.41
1:G:1457:TYR:O	1:G:1458:HIS:CG	2.73	0.41
1:G:1834:VAL:HG13	1:G:1835:GLU:H	1.85	0.41
1:G:2123:LEU:HD23	1:G:2126:ARG:HD2	2.02	0.41
1:G:2336:ARG:HH11	1:G:2431:ASP:HB3	1.84	0.41
1:G:3838:THR:OG1	1:G:3839:CYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4164:LEU:O	1:G:4168:GLU:N	2.53	0.41
2:H:38:SER:O	2:H:41:ASP:HB2	2.19	0.41
1:A:73:LEU:O	1:A:105:HIS:HB3	2.19	0.41
1:A:1294:PRO:O	1:A:1584:ARG:NE	2.52	0.41
1:A:1845:VAL:HG13	1:A:1854:PHE:HE2	1.84	0.41
1:A:2142:TYR:CD2	1:A:2197:LEU:HD12	2.55	0.41
1:A:2458:ARG:O	1:A:2464:ASP:N	2.52	0.41
1:A:3732:SER:HB2	1:A:3766:GLN:HB3	2.01	0.41
1:A:4034:ASN:HD21	1:A:4040:ILE:CG2	2.33	0.41
1:A:4036:VAL:HG12	1:A:4037:ASN:N	2.36	0.41
1:A:4055:VAL:O	1:A:4059:LEU:HG	2.20	0.41
1:A:4058:ILE:HG13	1:A:4059:LEU:N	2.35	0.41
1:C:165:VAL:HG13	1:C:204:PRO:HD3	2.01	0.41
1:C:317:ARG:N	1:C:347:PHE:O	2.52	0.41
1:C:537:CYS:HB3	1:C:571:SER:HB3	2.02	0.41
1:C:670:GLU:O	1:C:787:VAL:HG13	2.19	0.41
1:C:768:PHE:HB3	1:C:771:PHE:CE2	2.56	0.41
1:C:864:PRO:HG2	1:C:867:LEU:HD12	2.02	0.41
1:C:1119:GLU:C	1:C:1133:HIS:HE2	2.21	0.41
1:C:1514:LEU:N	1:C:1514:LEU:CD1	2.84	0.41
1:C:4010:ILE:HA	1:C:4013:LEU:HB3	2.01	0.41
1:C:4047:MET:HG3	1:C:4048:LEU:N	2.36	0.41
1:C:4055:VAL:O	1:C:4059:LEU:HG	2.20	0.41
1:C:4636:THR:O	1:C:4639:MET:HE2	2.20	0.41
1:C:4866:SER:O	1:C:4868:ASP:N	2.53	0.41
1:C:5011:TRP:O	1:C:5015:GLN:HG2	2.20	0.41
1:E:927:GLU:O	1:E:930:LYS:HB2	2.19	0.41
1:E:1245:PHE:CE2	1:E:1646:ARG:NH1	2.88	0.41
1:E:2868:SER:O	1:E:2872:GLN:N	2.48	0.41
1:E:3651:ASN:HA	1:E:3654:LEU:HD12	2.02	0.41
1:E:3718:GLU:HG3	1:E:3719:ASP:N	2.35	0.41
1:E:4059:LEU:HA	1:E:4062:PHE:HD2	1.84	0.41
1:E:4062:PHE:O	1:E:4170:ILE:HG21	2.20	0.41
1:E:4183:ILE:HD13	1:E:4193:ILE:HD13	2.03	0.41
1:E:4691:GLN:HA	1:E:4692:PRO:HD2	1.86	0.41
1:G:246:TYR:CE2	1:G:373:LYS:HD3	2.55	0.41
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	2.00	0.41
1:G:1603:VAL:HG12	1:G:1604:SER:O	2.20	0.41
1:G:2142:TYR:CD2	1:G:2197:LEU:HD12	2.55	0.41
1:G:2430:ILE:HG23	1:G:2501:SER:HB2	2.01	0.41
1:G:2887:GLY:O	1:G:2891:LYS:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3839:CYS:HB2	1:G:3881:THR:HG22	2.02	0.41
1:G:3969:ILE:HG12	1:G:3980:LEU:HD11	2.03	0.41
1:G:4720:VAL:HG12	1:G:4724:VAL:HG23	2.00	0.41
1:A:758:ARG:HH12	1:A:763:PRO:HD3	1.83	0.41
1:A:828:GLU:OE2	1:A:831:ARG:HA	2.20	0.41
1:A:1856:ASP:N	1:A:1858:ASP:H	2.18	0.41
1:A:1864:LYS:NZ	1:A:1869:GLU:C	2.73	0.41
1:A:2299:VAL:O	1:A:2360:LYS:HE2	2.21	0.41
1:A:2868:SER:O	1:A:2872:GLN:N	2.48	0.41
1:A:3811:GLU:HG2	1:A:3812:VAL:N	2.34	0.41
1:A:3838:THR:C	1:A:3839:CYS:SG	2.99	0.41
1:A:4047:MET:HG3	1:A:4048:LEU:N	2.35	0.41
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.20	0.41
1:A:4978:HIS:ND1	1:A:4982:GLU:OE1	2.53	0.41
1:C:607:CYS:HB2	1:C:1672:ALA:HB1	2.02	0.41
1:C:828:GLU:OE2	1:C:831:ARG:HA	2.20	0.41
1:C:1246:GLU:HA	1:C:1247:PRO:HD3	1.90	0.41
1:C:1647:CYS:O	1:C:1648:MET:HG3	2.20	0.41
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.19	0.41
1:C:4566:ALA:HA	1:C:4569:LEU:HD12	2.03	0.41
1:E:582:HIS:O	1:E:585:SER:HB2	2.20	0.41
1:E:1667:LEU:HD23	1:E:1710:GLY:C	2.41	0.41
1:E:1676:LEU:HG	1:E:1721:GLU:OE2	2.20	0.41
1:E:2500:ALA:HA	1:E:2556:LEU:HD21	2.01	0.41
1:E:2515:GLN:O	1:E:2518:LEU:HB3	2.20	0.41
1:E:2745:VAL:CG2	1:E:2818:ALA:HB2	2.50	0.41
1:E:4834:GLY:O	1:E:4837:LEU:HB3	2.20	0.41
1:E:4863:TYR:HD2	1:E:4876:CYS:SG	2.44	0.41
1:E:4866:SER:O	1:E:4868:ASP:N	2.54	0.41
1:E:5011:TRP:O	1:E:5014:TYR:HB3	2.20	0.41
1:G:165:VAL:HG13	1:G:204:PRO:HD3	2.02	0.41
1:G:696:PRO:HD2	1:G:829:TYR:CE2	2.52	0.41
1:G:702:TRP:HZ2	1:G:1640:HIS:HD1	1.67	0.41
1:G:1704:PRO:HG2	1:G:1707:LEU:HD12	2.02	0.41
1:G:3556:ASN:O	1:G:3560:GLN:N	2.54	0.41
1:G:4161:ARG:HA	1:G:4164:LEU:HB3	2.03	0.41
1:G:4710:SER:OG	1:G:4772:ASP:OD2	2.33	0.41
1:A:445:LEU:CD2	1:A:522:LEU:HD12	2.44	0.41
1:A:684:VAL:HG22	1:A:781:VAL:HG13	2.02	0.41
1:A:2558:VAL:O	1:A:2561:LEU:HG	2.20	0.41
1:A:4880:MET:CA	1:G:4578:LEU:CD1	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:669:ASP:CB	1:C:788:LYS:NZ	2.83	0.41
1:C:4058:ILE:HG13	1:C:4059:LEU:N	2.35	0.41
1:C:4218:ILE:HG22	1:C:4950:VAL:HG13	2.02	0.41
1:C:4823:LEU:HG	1:C:4826:ILE:HD12	2.02	0.41
1:E:858:THR:HG21	1:E:992:GLY:HA2	2.02	0.41
1:E:870:ILE:HA	1:E:873:LYS:HB3	2.02	0.41
1:E:1585:LYS:HD3	1:E:1596:GLU:OE2	2.21	0.41
1:E:1748:PHE:HE1	1:E:2072:LEU:C	2.23	0.41
1:E:3881:THR:O	1:E:3885:PHE:HD2	2.03	0.41
1:E:4036:VAL:HG12	1:E:4037:ASN:N	2.36	0.41
1:E:4174:PHE:HA	1:E:4177:TYR:CD2	2.56	0.41
1:E:4217:PHE:CZ	1:E:4234:PHE:HA	2.56	0.41
1:E:4218:ILE:HG22	1:E:4950:VAL:HG13	2.01	0.41
1:E:4251:ILE:HG22	1:E:4557:ARG:HH11	1.85	0.41
1:E:4944:ARG:O	1:E:4947:GLN:HB2	2.20	0.41
1:G:78:LEU:O	1:G:81:MET:HG2	2.21	0.41
1:G:216:GLY:HA3	1:G:264:PRO:CD	2.49	0.41
1:G:647:ASN:N	1:G:822:ARG:O	2.52	0.41
1:G:768:PHE:HB3	1:G:771:PHE:CE2	2.56	0.41
1:G:856:VAL:O	1:G:991:ASN:ND2	2.50	0.41
1:G:879:HIS:NE2	1:G:906:CYS:O	2.53	0.41
1:G:1585:LYS:HD3	1:G:1596:GLU:OE2	2.20	0.41
1:G:1845:VAL:HG13	1:G:1854:PHE:HE2	1.85	0.41
1:G:2862:LEU:HD11	1:G:2929:PHE:HD1	1.85	0.41
1:G:4006:ASP:HB2	1:G:4009:GLN:HG2	2.02	0.41
1:G:4866:SER:O	1:G:4868:ASP:N	2.53	0.41
1:A:12:GLN:O	1:A:165:VAL:HG23	2.21	0.41
1:A:102:LEU:HD23	1:A:162:LYS:HA	2.03	0.41
1:A:340:LYS:HG3	1:A:342:GLY:N	2.35	0.41
1:A:515:TRP:HA	1:A:518:ILE:HD12	2.02	0.41
1:A:633:LEU:HD22	1:A:1663:HIS:HD2	1.84	0.41
1:A:975:VAL:HG21	1:A:1044:ARG:CB	2.47	0.41
1:A:1719:HIS:CG	1:A:1802:ILE:HG23	2.56	0.41
1:A:1819:VAL:HG22	1:A:1926:LEU:HD13	2.02	0.41
1:A:1848:LEU:HD12	1:A:1851:MET:SD	2.60	0.41
2:B:16:PRO:HG3	2:B:106:LEU:HD21	2.03	0.41
1:C:78:LEU:HA	1:C:81:MET:HG2	2.02	0.41
1:C:642:THR:OG1	1:C:1617:THR:HG21	2.20	0.41
1:C:879:HIS:NE2	1:C:906:CYS:O	2.53	0.41
1:C:1834:VAL:HG13	1:C:1835:GLU:H	1.84	0.41
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4041:ALA:O	1:C:4044:MET:HB3	2.19	0.41
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.56	0.41
1:C:4863:TYR:HD2	1:C:4876:CYS:SG	2.44	0.41
1:E:669:ASP:CB	1:E:788:LYS:NZ	2.83	0.41
1:E:768:PHE:HB3	1:E:771:PHE:CE2	2.56	0.41
1:E:945:LYS:HA	1:E:1049:TYR:HA	2.03	0.41
1:E:1237:TRP:CD1	1:E:1611:HIS:HA	2.56	0.41
1:E:1287:LEU:HD13	1:E:1556:PRO:HD3	2.01	0.41
1:E:1729:SER:HB2	1:E:2163:ARG:HH11	1.82	0.41
1:E:1762:LEU:HD21	1:E:1860:LYS:NZ	2.34	0.41
1:E:2094:LEU:O	1:E:2098:VAL:HG23	2.21	0.41
1:E:2430:ILE:HG23	1:E:2501:SER:HB2	2.01	0.41
1:E:2887:GLY:O	1:E:2891:LYS:HG3	2.20	0.41
1:E:5004:THR:O	1:E:5007:GLU:HG2	2.21	0.41
1:G:40:GLU:OE2	1:G:406:SER:HB2	2.20	0.41
1:G:1072:VAL:HG22	1:G:1196:PRO:HD3	2.03	0.41
1:G:1099:GLU:H	1:G:1198:GLN:NE2	2.18	0.41
1:G:1245:PHE:CE2	1:G:1646:ARG:NH1	2.88	0.41
1:G:1691:GLN:O	1:G:1695:LEU:HG	2.19	0.41
1:G:2299:VAL:O	1:G:2360:LYS:HE2	2.20	0.41
1:G:3977:GLN:NE2	1:G:4030:LEU:O	2.54	0.41
2:H:4:VAL:HG21	2:H:62:GLY:HA3	2.01	0.41
1:A:607:CYS:HB2	1:A:1672:ALA:HB1	2.01	0.41
1:A:768:PHE:HB3	1:A:771:PHE:CE2	2.56	0.41
1:A:1723:ALA:O	1:A:1727:ARG:HB2	2.20	0.41
1:A:3922:TYR:HA	1:A:3925:ARG:HG2	2.02	0.41
1:A:3933:PHE:O	1:A:3937:TYR:HD2	2.03	0.41
1:A:4653:VAL:O	1:A:4657:CYS:N	2.46	0.41
1:A:4866:SER:O	1:A:4868:ASP:N	2.54	0.41
1:C:69:LEU:HD13	1:C:101:LEU:HD11	2.01	0.41
1:C:340:LYS:HG3	1:C:342:GLY:N	2.36	0.41
1:C:514:SER:O	1:C:518:ILE:HG13	2.20	0.41
1:C:515:TRP:HA	1:C:518:ILE:HD12	2.02	0.41
1:C:580:GLU:HB3	1:C:620:LEU:HD11	2.03	0.41
1:C:1616:GLU:HG3	1:C:1617:THR:HG23	2.02	0.41
1:C:1689:VAL:HG22	1:C:1694:LEU:HD11	2.01	0.41
1:C:3886:ARG:O	1:C:3890:LEU:HD13	2.21	0.41
1:C:3927:GLN:HE21	1:C:3991:GLY:HA3	1.86	0.41
1:C:4137:ARG:HD2	1:C:4177:TYR:CE2	2.56	0.41
1:C:4582:VAL:HG12	1:C:4629:TYR:HD1	1.85	0.41
1:C:4735:GLU:O	1:C:4739:GLU:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:40:GLU:OE2	1:E:406:SER:HB2	2.20	0.41
1:E:111:HIS:CD2	1:E:113:HIS:HB3	2.56	0.41
1:E:642:THR:OG1	1:E:1617:THR:HG21	2.20	0.41
1:E:758:ARG:HD3	1:E:761:GLY:HA2	2.03	0.41
1:E:826:ILE:O	1:E:828:GLU:N	2.54	0.41
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.02	0.41
1:E:1457:TYR:O	1:E:1458:HIS:CG	2.73	0.41
1:E:1857:GLU:O	1:E:1860:LYS:HB2	2.20	0.41
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.21	0.41
1:E:2349:ASN:O	1:E:2353:VAL:HG23	2.21	0.41
1:E:2876:GLU:OE2	1:E:2916:LYS:HD3	2.20	0.41
1:E:4578:LEU:HG	1:E:4578:LEU:O	2.20	0.41
1:E:4580:TYR:HB2	1:E:4631:PHE:CD1	2.56	0.41
1:G:485:SER:O	1:G:488:LEU:HB3	2.21	0.41
1:G:1237:TRP:CD1	1:G:1611:HIS:HA	2.56	0.41
1:G:1856:ASP:H	1:G:1857:GLU:CB	2.31	0.41
1:G:1959:ALA:O	1:G:1962:ALA:HB3	2.20	0.41
1:G:4157:ASP:O	1:G:4161:ARG:NE	2.53	0.41
1:G:4820:VAL:HG12	1:G:4821:LYS:H	1.85	0.41
1:A:40:GLU:OE2	1:A:406:SER:HB2	2.20	0.41
1:A:120:CYS:HA	1:A:135:VAL:HA	2.03	0.41
1:A:879:HIS:NE2	1:A:906:CYS:O	2.53	0.41
1:A:1288:PHE:O	1:A:1603:VAL:HG13	2.21	0.41
1:A:1293:LEU:HB3	1:A:1584:ARG:HE	1.86	0.41
1:A:1297:PHE:HB2	1:A:1545:ASN:HA	2.03	0.41
1:A:1857:GLU:O	1:A:1860:LYS:HB2	2.20	0.41
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.21	0.41
1:A:4137:ARG:HD2	1:A:4177:TYR:CE2	2.56	0.41
1:A:4183:ILE:HD13	1:A:4193:ILE:HD13	2.03	0.41
1:A:4581:LYS:HE2	1:C:4877:ASP:O	2.21	0.41
1:A:4931:ILE:O	1:A:4935:LEU:HB2	2.19	0.41
1:C:485:SER:O	1:C:488:LEU:HB3	2.21	0.41
1:C:1293:LEU:HB3	1:C:1584:ARG:HE	1.86	0.41
1:C:1676:LEU:O	1:C:1676:LEU:HD23	2.21	0.41
1:C:1748:PHE:HE1	1:C:2072:LEU:C	2.24	0.41
1:C:1848:LEU:HD12	1:C:1851:MET:SD	2.60	0.41
1:C:2284:ASN:HA	1:C:2287:ALA:HB3	2.02	0.41
1:C:2806:ARG:HB3	1:C:2810:LYS:HE3	2.02	0.41
1:C:4034:ASN:HD21	1:C:4040:ILE:CG2	2.32	0.41
1:C:4174:PHE:HA	1:C:4177:TYR:CD2	2.56	0.41
1:C:4813:LEU:HD12	1:C:4814:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4875:LYS:O	1:C:4877:ASP:N	2.54	0.41
1:C:5011:TRP:O	1:C:5014:TYR:HB3	2.20	0.41
2:D:92:PRO:HA	2:D:93:PRO:HD3	1.91	0.41
1:E:165:VAL:HG13	1:E:204:PRO:HD3	2.02	0.41
1:E:537:CYS:HB3	1:E:571:SER:HB3	2.03	0.41
1:E:580:GLU:HB3	1:E:620:LEU:HD11	2.03	0.41
1:E:590:LEU:HD13	1:E:599:VAL:HB	2.03	0.41
1:E:910:PHE:CG	1:E:918:ARG:HB3	2.55	0.41
1:E:1616:GLU:HG3	1:E:1617:THR:HG23	2.02	0.41
1:E:1864:LYS:NZ	1:E:1869:GLU:C	2.73	0.41
1:E:1944:GLU:HA	1:E:1947:CYS:SG	2.61	0.41
1:E:2114:PRO:O	1:E:3704:HIS:NE2	2.40	0.41
1:E:2142:TYR:CD2	1:E:2197:LEU:HD12	2.55	0.41
1:E:2284:ASN:HA	1:E:2287:ALA:HB3	2.02	0.41
1:E:3732:SER:HB2	1:E:3766:GLN:HB3	2.03	0.41
1:E:4666:VAL:HA	1:E:4669:VAL:HG12	2.03	0.41
2:F:16:PRO:HG3	2:F:106:LEU:HD21	2.02	0.41
1:G:39:ALA:HB3	1:G:137:LEU:HD11	2.03	0.41
1:G:515:TRP:HA	1:G:518:ILE:HD12	2.02	0.41
1:G:843:SER:HA	1:G:1197:GLY:HA2	2.03	0.41
1:G:1077:ALA:HB3	1:G:1189:LEU:HB3	2.03	0.41
1:G:1819:VAL:HG22	1:G:1926:LEU:HD13	2.02	0.41
1:G:1937:LEU:HD11	1:G:2115:GLU:OE1	2.21	0.41
1:G:2293:GLN:O	1:G:2296:GLU:HG2	2.21	0.41
1:G:3659:ALA:O	1:G:3663:LEU:HG	2.20	0.41
1:G:3718:GLU:HG3	1:G:3719:ASP:N	2.36	0.41
1:G:3722:TYR:HE2	1:G:3797:THR:HG22	1.86	0.41
1:G:3838:THR:C	1:G:3839:CYS:SG	2.99	0.41
1:G:4234:PHE:CZ	1:G:4988:TYR:HB2	2.55	0.41
1:A:356:TRP:O	1:A:378:LEU:HA	2.21	0.41
1:A:758:ARG:HD3	1:A:761:GLY:HA2	2.02	0.41
1:A:856:VAL:O	1:A:991:ASN:ND2	2.48	0.41
1:A:1094:ALA:HB1	1:A:1143:TRP:CZ3	2.56	0.41
1:A:1230:MET:HB2	1:A:1828:ASP:OD1	2.20	0.41
1:A:1275:ARG:HG2	1:A:1564:PHE:CD2	2.56	0.41
1:A:1585:LYS:HD3	1:A:1596:GLU:OE2	2.20	0.41
1:A:2284:ASN:HA	1:A:2287:ALA:HB3	2.02	0.41
1:A:2335:LEU:HB2	1:A:2432:LEU:HD11	2.03	0.41
1:A:3984:ARG:O	1:A:3984:ARG:HG2	2.21	0.41
1:A:4062:PHE:O	1:A:4170:ILE:HG21	2.20	0.41
1:A:4118:ASP:O	1:A:4120:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:145:ALA:HA	1:C:175:SER:HB3	2.01	0.41
1:C:1077:ALA:HB3	1:C:1189:LEU:HB3	2.03	0.41
1:C:2299:VAL:O	1:C:2360:LYS:HE2	2.20	0.41
1:C:2745:VAL:CG2	1:C:2818:ALA:HB2	2.50	0.41
1:C:2754:PHE:CZ	1:C:2930:LEU:HD23	2.56	0.41
1:C:3888:LEU:HA	1:C:3888:LEU:HD23	1.84	0.41
1:C:4666:VAL:HA	1:C:4669:VAL:HG12	2.03	0.41
1:E:67:PHE:HA	1:E:110:ARG:O	2.21	0.41
1:E:69:LEU:HD13	1:E:101:LEU:HD11	2.01	0.41
1:E:246:TYR:CE2	1:E:373:LYS:HD3	2.55	0.41
1:E:684:VAL:HG22	1:E:781:VAL:HG13	2.02	0.41
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.56	0.41
1:E:2822:THR:HG1	1:E:2938:THR:HG1	1.62	0.41
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.20	0.41
1:E:4914:VAL:O	1:E:4918:ILE:HG13	2.21	0.41
1:G:116:MET:HE2	1:G:139:GLU:OE2	2.21	0.41
1:G:1287:LEU:HD13	1:G:1556:PRO:HD3	2.02	0.41
1:G:1654:SER:HB2	1:G:1704:PRO:HB3	2.02	0.41
1:G:1965:TYR:CE1	1:G:2063:LEU:HD11	2.56	0.41
1:G:2349:ASN:O	1:G:2353:VAL:HG23	2.20	0.41
1:G:2761:TYR:CZ	1:G:2862:LEU:HD13	2.55	0.41
1:G:3976:ASN:O	1:G:3979:SER:HB3	2.20	0.41
1:G:4796:MET:HG3	1:G:4797:VAL:N	2.35	0.41
1:A:78:LEU:HD12	1:A:81:MET:SD	2.61	0.41
1:A:78:LEU:O	1:A:81:MET:HG2	2.21	0.41
1:A:121:LEU:HD12	1:A:136:GLY:HA3	2.03	0.41
1:A:178:ARG:CZ	1:G:2456:ILE:HD11	2.51	0.41
1:A:485:SER:O	1:A:488:LEU:HB3	2.21	0.41
1:A:572:PRO:O	1:A:575:LEU:HB2	2.19	0.41
1:A:582:HIS:O	1:A:585:SER:HB2	2.20	0.41
1:A:642:THR:OG1	1:A:1617:THR:HG21	2.20	0.41
1:A:670:GLU:O	1:A:787:VAL:HG13	2.20	0.41
1:A:1077:ALA:HB3	1:A:1189:LEU:HB3	2.03	0.41
1:A:1110:ARG:HB2	1:A:1113:VAL:HG23	2.02	0.41
1:A:1237:TRP:CD1	1:A:1611:HIS:HA	2.56	0.41
1:A:1457:TYR:O	1:A:1458:HIS:CG	2.74	0.41
1:A:1586:ASN:O	1:A:1588:ALA:N	2.49	0.41
1:A:1667:LEU:HD23	1:A:1710:GLY:C	2.42	0.41
1:A:1679:ASN:HB3	1:A:1799:SER:H	1.86	0.41
1:A:2114:PRO:O	1:A:3704:HIS:NE2	2.40	0.41
1:A:2204:HIS:ND1	1:A:2250:MET:SD	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2456:ILE:HD11	1:C:178:ARG:CZ	2.51	0.41
1:A:2554:LEU:HD11	1:A:2595:LEU:HA	2.03	0.41
1:A:2887:GLY:O	1:A:2891:LYS:HG3	2.20	0.41
1:A:4580:TYR:HB2	1:A:4631:PHE:CD1	2.53	0.41
1:A:4863:TYR:HD2	1:A:4876:CYS:SG	2.44	0.41
1:A:4876:CYS:HA	1:A:4882:CYS:HB3	2.03	0.41
1:A:4944:ARG:O	1:A:4947:GLN:HB2	2.20	0.41
1:C:454:PRO:HA	1:C:455:PRO:HD3	1.86	0.41
1:C:684:VAL:HG22	1:C:781:VAL:HG13	2.03	0.41
1:C:856:VAL:O	1:C:991:ASN:ND2	2.50	0.41
1:C:1024:TYR:CD1	1:C:1032:LYS:HG2	2.56	0.41
1:C:1072:VAL:HG22	1:C:1196:PRO:HD3	2.03	0.41
1:C:1230:MET:HB2	1:C:1828:ASP:OD1	2.21	0.41
1:C:1275:ARG:HG2	1:C:1564:PHE:CD2	2.56	0.41
1:C:1667:LEU:HD23	1:C:1710:GLY:C	2.41	0.41
1:C:1945:TYR:O	1:C:1949:GLN:HG2	2.21	0.41
1:C:2359:ARG:CZ	1:E:179:TYR:OH	2.68	0.41
1:C:2420:HIS:ND1	1:C:2423:MET:SD	2.76	0.41
1:C:2430:ILE:HG23	1:C:2501:SER:HB2	2.01	0.41
1:C:3984:ARG:O	1:C:3984:ARG:HG2	2.21	0.41
1:C:4062:PHE:O	1:C:4170:ILE:HG21	2.20	0.41
1:C:4887:MET:HA	1:C:4891:VAL:CG2	2.51	0.41
1:C:4914:VAL:O	1:C:4918:ILE:HG13	2.21	0.41
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.56	0.41
1:C:5004:THR:O	1:C:5007:GLU:HG2	2.20	0.41
1:E:121:LEU:HD12	1:E:136:GLY:HA3	2.02	0.41
1:E:635:THR:OG1	1:E:1638:ALA:O	2.31	0.41
1:E:671:VAL:HG12	1:E:673:PRO:HG3	2.03	0.41
1:E:1077:ALA:HB3	1:E:1189:LEU:HB3	2.03	0.41
1:E:1275:ARG:HG2	1:E:1564:PHE:CD2	2.56	0.41
1:E:1288:PHE:O	1:E:1603:VAL:HG13	2.21	0.41
1:E:1676:LEU:HD23	1:E:1676:LEU:O	2.21	0.41
1:E:1719:HIS:CG	1:E:1802:ILE:HG23	2.55	0.41
1:E:1829:PRO:HB3	1:E:1834:VAL:H	1.86	0.41
1:E:2754:PHE:CZ	1:E:2930:LEU:HD23	2.56	0.41
1:E:3888:LEU:HA	1:E:3888:LEU:HD23	1.84	0.41
1:E:3981:ALA:HA	1:E:3986:TRP:HH2	1.86	0.41
1:E:4047:MET:HG3	1:E:4048:LEU:N	2.35	0.41
1:E:4566:ALA:HA	1:E:4569:LEU:HD12	2.03	0.41
1:E:4570:ALA:HB2	1:E:4650:HIS:CE1	2.56	0.41
1:E:4875:LYS:O	1:E:4877:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4977:THR:HA	1:E:4981:GLU:OE1	2.21	0.41
1:E:5022:PHE:HD1	1:E:5022:PHE:HA	1.75	0.41
2:F:42:ARG:C	2:F:44:LYS:H	2.24	0.41
1:G:607:CYS:HB2	1:G:1672:ALA:HB1	2.02	0.41
1:G:635:THR:OG1	1:G:1638:ALA:O	2.32	0.41
1:G:750:LEU:O	1:G:751:SER:OG	2.33	0.41
1:G:826:ILE:O	1:G:828:GLU:N	2.54	0.41
1:G:1094:ALA:HB1	1:G:1143:TRP:CZ3	2.56	0.41
1:G:2101:MET:SD	1:G:2104:ARG:HD2	2.61	0.41
1:G:2515:GLN:O	1:G:2518:LEU:HB3	2.20	0.41
1:G:2745:VAL:CG2	1:G:2818:ALA:HB2	2.51	0.41
1:G:3957:VAL:O	1:G:3961:VAL:HG23	2.20	0.41
1:G:4063:ASP:HA	1:G:4170:ILE:HG12	2.03	0.41
1:G:4722:ARG:O	1:G:4725:LEU:HG	2.21	0.41
1:G:4727:LYS:HZ1	1:G:4728:HIS:CE1	2.38	0.41
1:G:4968:PHE:HB2	1:G:4975:PHE:HD1	1.86	0.41
2:H:44:LYS:HA	2:H:45:PRO:HD3	1.90	0.41
1:A:580:GLU:HB3	1:A:620:LEU:HD11	2.03	0.41
1:A:1087:ARG:HD2	1:A:1223:PHE:CE1	2.55	0.41
1:A:1099:GLU:H	1:A:1198:GLN:NE2	2.19	0.41
1:C:426:ARG:NH2	1:C:508:GLY:O	2.54	0.41
1:C:870:ILE:HA	1:C:873:LYS:HB3	2.03	0.41
1:C:1094:ALA:HB1	1:C:1143:TRP:CZ3	2.56	0.41
1:C:1452:TRP:HB3	1:C:1550:PRO:HA	2.03	0.41
1:C:1937:LEU:O	1:C:1940:CYS:SG	2.69	0.41
1:C:1944:GLU:HA	1:C:1947:CYS:SG	2.61	0.41
1:C:2204:HIS:ND1	1:C:2250:MET:SD	2.94	0.41
1:C:2456:ILE:HD11	1:E:178:ARG:HH22	1.87	0.41
1:C:3901:ASN:O	1:C:3905:THR:HG22	2.21	0.41
1:C:4108:ILE:O	1:C:4111:LEU:HB3	2.21	0.41
1:C:4118:ASP:O	1:C:4120:ASN:N	2.54	0.41
1:E:485:SER:O	1:E:488:LEU:HB3	2.21	0.41
1:E:636:ASN:HD21	2:F:35:LYS:HD3	1.85	0.41
1:E:1094:ALA:HB1	1:E:1143:TRP:CZ3	2.56	0.41
1:E:1293:LEU:HB3	1:E:1584:ARG:HE	1.87	0.41
1:E:1959:ALA:O	1:E:1962:ALA:HB3	2.22	0.41
1:E:1966:VAL:O	1:E:1966:VAL:HG12	2.21	0.41
1:E:3712:GLU:O	1:E:3713:LYS:HD2	2.21	0.41
1:E:4137:ARG:HD2	1:E:4177:TYR:CE2	2.56	0.41
1:E:4802:GLY:HA2	1:E:4809:PHE:HB2	2.02	0.41
1:E:4892:ARG:NH1	1:G:4896:GLY:HA3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4978:HIS:ND1	1:E:4982:GLU:OE1	2.53	0.41
1:G:175:SER:OG	1:G:176:SER:N	2.53	0.41
1:G:1275:ARG:HG2	1:G:1564:PHE:CD2	2.56	0.41
1:G:1779:PRO:HA	1:G:1780:PRO:HD3	1.79	0.41
1:G:2251:PHE:HA	1:G:2254:LEU:HG	2.03	0.41
1:G:2550:LEU:O	1:G:2554:LEU:N	2.54	0.41
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.56	0.41
1:G:3662:ILE:HG22	1:G:3662:ILE:O	2.21	0.41
1:G:3838:THR:O	1:G:3839:CYS:SG	2.76	0.41
1:G:4569:LEU:O	1:G:4573:ILE:HG13	2.20	0.41
1:G:4662:ASN:O	1:G:4667:PRO:HD3	2.20	0.41
2:H:31:GLU:HG2	2:H:96:THR:HB	2.02	0.41
1:A:272:SER:HB2	1:A:335:GLY:HA3	2.03	0.40
1:A:1748:PHE:HE1	1:A:2072:LEU:C	2.24	0.40
1:A:2550:LEU:O	1:A:2554:LEU:N	2.54	0.40
1:A:2754:PHE:CZ	1:A:2930:LEU:HD23	2.56	0.40
1:A:4174:PHE:HA	1:A:4177:TYR:CD2	2.56	0.40
1:C:111:HIS:CD2	1:C:113:HIS:HB3	2.56	0.40
1:C:1679:ASN:HB3	1:C:1799:SER:H	1.86	0.40
1:C:2550:LEU:O	1:C:2554:LEU:N	2.54	0.40
1:C:3933:PHE:O	1:C:3937:TYR:HD2	2.03	0.40
1:E:1603:VAL:HG12	1:E:1604:SER:O	2.20	0.40
1:E:2204:HIS:ND1	1:E:2250:MET:SD	2.94	0.40
1:E:2251:PHE:HA	1:E:2254:LEU:HG	2.03	0.40
1:E:4118:ASP:O	1:E:4120:ASN:N	2.54	0.40
1:E:4823:LEU:HG	1:E:4826:ILE:HD12	2.02	0.40
1:E:4932:ILE:O	1:E:4935:LEU:HB3	2.20	0.40
2:F:28:GLY:HA2	2:F:99:PHE:CD1	2.57	0.40
1:G:67:PHE:HA	1:G:110:ARG:O	2.21	0.40
1:G:78:LEU:HD12	1:G:81:MET:SD	2.61	0.40
1:G:111:HIS:CD2	1:G:113:HIS:HB3	2.56	0.40
1:G:2281:ILE:HD11	1:G:2337:PHE:HB3	2.02	0.40
1:G:3839:CYS:SG	1:G:3840:SER:N	2.94	0.40
1:G:3981:ALA:HA	1:G:3986:TRP:HH2	1.86	0.40
1:G:4691:GLN:HA	1:G:4692:PRO:HD2	1.88	0.40
1:G:4847:VAL:HG11	1:G:4924:VAL:HG22	2.02	0.40
1:G:4978:HIS:ND1	1:G:4982:GLU:OE1	2.54	0.40
1:A:165:VAL:HG13	1:A:204:PRO:HD3	2.03	0.40
1:A:826:ILE:O	1:A:828:GLU:N	2.54	0.40
1:A:843:SER:HA	1:A:1197:GLY:HA2	2.03	0.40
1:A:1046:LEU:HA	1:A:1049:TYR:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1603:VAL:HG12	1:A:1604:SER:O	2.22	0.40
1:A:1676:LEU:O	1:A:1676:LEU:HD23	2.21	0.40
1:A:1685:LEU:HA	1:A:1685:LEU:HD23	1.76	0.40
1:A:1829:PRO:HB3	1:A:1834:VAL:H	1.86	0.40
1:A:1944:GLU:HA	1:A:1947:CYS:SG	2.61	0.40
1:A:2199:ARG:NE	1:A:2249:SER:OG	2.52	0.40
1:A:2251:PHE:HA	1:A:2254:LEU:HG	2.03	0.40
1:A:3712:GLU:O	1:A:3713:LYS:HD2	2.21	0.40
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.03	0.40
1:A:4666:VAL:HA	1:A:4669:VAL:HG12	2.02	0.40
1:A:4839:MET:CB	1:G:4823:LEU:CD1	2.99	0.40
1:C:123:THR:HB	1:C:125:ARG:HH21	1.86	0.40
1:C:905:PRO:HB2	1:C:917:GLU:HB3	2.04	0.40
1:C:1100:MET:HE1	1:C:1199:VAL:O	2.22	0.40
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.54	0.40
1:C:2449:GLU:O	1:C:2452:ARG:HB2	2.20	0.40
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.21	0.40
1:E:78:LEU:O	1:E:81:MET:HG2	2.22	0.40
1:E:224:HIS:N	1:E:229:GLU:O	2.42	0.40
1:E:321:GLU:HG2	1:E:323:LEU:HG	2.03	0.40
1:E:828:GLU:OE2	1:E:831:ARG:HA	2.20	0.40
1:E:1679:ASN:HB3	1:E:1799:SER:H	1.86	0.40
1:E:1748:PHE:HA	1:E:1749:PRO:HD2	1.76	0.40
1:E:2198:MET:HB3	1:E:2239:PHE:HE1	1.86	0.40
1:E:2199:ARG:NE	1:E:2249:SER:OG	2.52	0.40
1:E:2335:LEU:HB2	1:E:2432:LEU:HD11	2.02	0.40
1:E:2449:GLU:O	1:E:2452:ARG:HB2	2.20	0.40
1:E:3985:LEU:O	1:E:3989:VAL:HG23	2.21	0.40
1:E:4175:ARG:O	1:E:4178:LEU:HB3	2.21	0.40
1:E:4582:VAL:HB	1:E:4628:VAL:HG12	2.03	0.40
1:E:4669:VAL:O	1:E:4672:LYS:HB3	2.22	0.40
1:G:321:GLU:HG2	1:G:323:LEU:HG	2.03	0.40
1:G:356:TRP:O	1:G:378:LEU:HA	2.21	0.40
1:G:426:ARG:NH2	1:G:508:GLY:O	2.54	0.40
1:G:497:TYR:HB2	1:G:515:TRP:CH2	2.57	0.40
1:G:1293:LEU:HB3	1:G:1584:ARG:HE	1.86	0.40
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.21	0.40
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.22	0.40
1:G:4770:SER:OG	1:G:4771:ILE:N	2.53	0.40
1:A:131:LEU:HB2	1:G:2460:LEU:HD21	2.02	0.40
1:A:321:GLU:HG2	1:A:323:LEU:HG	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:LYS:HD3	1:A:598:LYS:HA	1.87	0.40
1:A:1841:VAL:O	1:A:1845:VAL:HG23	2.21	0.40
1:A:2293:GLN:CA	1:A:2296:GLU:HG2	2.47	0.40
1:A:3775:ALA:HA	1:A:3778:MET:HG2	2.03	0.40
1:A:3886:ARG:O	1:A:3890:LEU:HD13	2.21	0.40
1:A:3927:GLN:HE21	1:A:3991:GLY:HA3	1.87	0.40
1:A:4175:ARG:O	1:A:4178:LEU:HB3	2.21	0.40
1:A:4578:LEU:CD1	1:C:4880:MET:CA	2.83	0.40
1:A:4636:THR:O	1:A:4639:MET:HE2	2.21	0.40
1:A:4675:LYS:O	1:A:4679:ARG:HG2	2.21	0.40
2:B:31:GLU:HG2	2:B:96:THR:HB	2.02	0.40
1:C:39:ALA:HB3	1:C:137:LEU:HD11	2.03	0.40
1:C:175:SER:OG	1:C:176:SER:N	2.53	0.40
1:C:216:GLY:HA3	1:C:264:PRO:CD	2.50	0.40
1:C:831:ARG:O	1:C:837:PRO:HA	2.22	0.40
1:C:1133:HIS:CE1	1:C:1134:LEU:HG	2.55	0.40
1:C:1585:LYS:HD3	1:C:1596:GLU:OE2	2.21	0.40
1:C:3805:LEU:HB3	1:C:3890:LEU:HB3	2.03	0.40
1:C:4183:ILE:HD13	1:C:4193:ILE:HD13	2.03	0.40
1:C:4570:ALA:HB2	1:C:4650:HIS:CE1	2.57	0.40
1:C:4669:VAL:O	1:C:4672:LYS:HB3	2.21	0.40
1:E:57:ASN:OD1	1:E:308:HIS:ND1	2.54	0.40
1:E:102:LEU:HD23	1:E:162:LYS:HA	2.02	0.40
1:E:1864:LYS:HZ2	1:E:1869:GLU:C	2.25	0.40
1:E:2281:ILE:HD11	1:E:2337:PHE:CG	2.56	0.40
1:E:2424:SER:HA	1:E:2427:ALA:HB3	2.02	0.40
1:E:2550:LEU:O	1:E:2554:LEU:N	2.54	0.40
1:E:2558:VAL:O	1:E:2561:LEU:HG	2.21	0.40
1:E:2858:GLN:HA	1:E:2859:PRO:HD2	1.93	0.40
1:E:3805:LEU:HB3	1:E:3890:LEU:HB3	2.03	0.40
1:E:3945:GLU:O	1:E:3948:LYS:HB2	2.22	0.40
1:E:4108:ILE:O	1:E:4111:LEU:HB3	2.21	0.40
1:E:4991:PHE:CE2	1:E:4995:LEU:HD11	2.56	0.40
1:G:590:LEU:HD13	1:G:599:VAL:HB	2.04	0.40
1:G:725:HIS:ND1	1:G:725:HIS:O	2.54	0.40
1:G:870:ILE:HA	1:G:873:LYS:HB3	2.03	0.40
1:G:905:PRO:HB2	1:G:917:GLU:HB3	2.03	0.40
1:G:1288:PHE:O	1:G:1603:VAL:HG13	2.21	0.40
1:G:1681:VAL:O	1:G:1684:ALA:HB3	2.21	0.40
1:G:2207:VAL:O	1:G:2211:MET:HG2	2.22	0.40
1:G:2251:PHE:CD1	1:G:2254:LEU:HD12	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2554:LEU:HD11	1:G:2595:LEU:HA	2.04	0.40
1:G:4820:VAL:HG12	1:G:4821:LYS:N	2.36	0.40
1:A:251:ALA:O	1:A:254:THR:OG1	2.33	0.40
1:A:426:ARG:NH2	1:A:508:GLY:O	2.54	0.40
1:A:1647:CYS:O	1:A:1648:MET:HG3	2.20	0.40
1:A:1681:VAL:O	1:A:1684:ALA:HB3	2.22	0.40
1:A:1958:LEU:HD11	1:A:3657:TYR:CE2	2.57	0.40
1:A:2101:MET:SD	1:A:2104:ARG:HD2	2.61	0.40
1:A:2251:PHE:CD1	1:A:2254:LEU:HD12	2.57	0.40
1:A:2515:GLN:O	1:A:2518:LEU:HB3	2.20	0.40
1:A:4826:ILE:CG1	1:C:4839:MET:HE3	2.52	0.40
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.56	0.40
1:C:120:CYS:HA	1:C:135:VAL:HA	2.04	0.40
1:C:1216:ILE:HG22	1:C:1217:CYS:N	2.37	0.40
1:C:1862:ILE:HG23	1:C:1865:MET:HE2	2.03	0.40
1:C:2131:LEU:O	1:C:2134:LEU:HB3	2.22	0.40
1:C:2554:LEU:HD11	1:C:2595:LEU:HA	2.03	0.40
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.56	0.40
1:C:3838:THR:O	1:C:3839:CYS:SG	2.76	0.40
1:C:3922:TYR:HA	1:C:3925:ARG:HG2	2.03	0.40
1:C:3989:VAL:O	1:C:3993:LEU:HG	2.22	0.40
1:C:4818:MET:O	1:C:4820:VAL:HA	2.22	0.40
1:E:1024:TYR:CD1	1:E:1032:LYS:HG2	2.56	0.40
1:E:1457:TYR:O	1:E:1458:HIS:ND1	2.55	0.40
1:E:1719:HIS:CD2	1:E:1800:PRO:HG2	2.57	0.40
1:E:1845:VAL:HG13	1:E:1854:PHE:HE2	1.85	0.40
1:E:2251:PHE:CD1	1:E:2254:LEU:HD12	2.57	0.40
1:E:2299:VAL:O	1:E:2360:LYS:HE2	2.20	0.40
1:E:4733:GLY:O	1:E:4737:ILE:HG12	2.21	0.40
1:E:4995:LEU:HD21	1:E:5007:GLU:HB2	2.02	0.40
1:G:669:ASP:CB	1:G:788:LYS:NZ	2.83	0.40
1:G:1719:HIS:CD2	1:G:1800:PRO:HG2	2.56	0.40
1:G:1944:GLU:HA	1:G:1947:CYS:SG	2.61	0.40
1:G:1966:VAL:O	1:G:1966:VAL:HG12	2.21	0.40
1:G:2204:HIS:ND1	1:G:2250:MET:SD	2.94	0.40
1:G:3801:GLY:HA3	1:G:3887:PHE:HE1	1.86	0.40
1:G:4989:MET:HG3	1:G:4990:PHE:N	2.37	0.40
1:A:33:LEU:HD23	1:A:35:LEU:HD23	2.03	0.40
1:A:1719:HIS:CD2	1:A:1800:PRO:HG2	2.56	0.40
1:A:3901:ASN:O	1:A:3905:THR:HG22	2.21	0.40
1:A:4995:LEU:HD21	1:A:5007:GLU:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5011:TRP:O	1:A:5014:TYR:HB3	2.20	0.40
1:C:78:LEU:O	1:C:81:MET:HG2	2.22	0.40
1:C:248:GLU:HG2	1:C:252:VAL:HG11	2.03	0.40
1:C:321:GLU:HG2	1:C:323:LEU:HG	2.03	0.40
1:C:590:LEU:HD13	1:C:599:VAL:HB	2.04	0.40
1:C:1073:ARG:O	1:C:1074:ILE:HG13	2.22	0.40
1:C:1275:ARG:HG2	1:C:1564:PHE:HB3	2.03	0.40
1:C:1681:VAL:O	1:C:1684:ALA:HB3	2.22	0.40
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	2.04	0.40
1:C:2515:GLN:O	1:C:2518:LEU:HB3	2.20	0.40
1:C:3712:GLU:O	1:C:3713:LYS:HD2	2.21	0.40
1:C:3718:GLU:HG3	1:C:3719:ASP:N	2.35	0.40
1:C:4175:ARG:O	1:C:4178:LEU:HB3	2.21	0.40
1:C:4977:THR:HA	1:C:4981:GLU:OE1	2.21	0.40
1:E:216:GLY:HA3	1:E:264:PRO:CD	2.50	0.40
1:E:426:ARG:NH2	1:E:508:GLY:O	2.54	0.40
1:E:598:LYS:HD3	1:E:598:LYS:HA	1.87	0.40
1:E:975:VAL:HG21	1:E:1044:ARG:CB	2.47	0.40
1:E:1046:LEU:HA	1:E:1049:TYR:HB2	2.04	0.40
1:E:1230:MET:HB2	1:E:1828:ASP:OD1	2.22	0.40
1:E:2456:ILE:HD11	1:G:178:ARG:CZ	2.52	0.40
1:E:3817:LEU:HD11	1:E:3821:LYS:HE2	2.02	0.40
1:E:4058:ILE:HG13	1:E:4059:LEU:N	2.35	0.40
1:G:123:THR:HB	1:G:125:ARG:HH21	1.86	0.40
1:G:737:LEU:HB3	1:G:738:LEU:H	1.50	0.40
1:G:831:ARG:O	1:G:837:PRO:HA	2.22	0.40
1:G:1201:HIS:CD2	1:G:1202:LEU:N	2.89	0.40
1:G:1667:LEU:HD23	1:G:1710:GLY:C	2.41	0.40
1:G:1719:HIS:CG	1:G:1802:ILE:HG23	2.56	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	3483/5037 (69%)	3132 (90%)	258 (7%)	93 (3%)	5	31
1	C	3483/5037 (69%)	3133 (90%)	254 (7%)	96 (3%)	5	30
1	E	3483/5037 (69%)	3134 (90%)	255 (7%)	94 (3%)	5	31
1	G	3483/5037 (69%)	3137 (90%)	252 (7%)	94 (3%)	5	31
2	B	105/108 (97%)	95 (90%)	9 (9%)	1 (1%)	15	54
2	D	105/108 (97%)	95 (90%)	9 (9%)	1 (1%)	15	54
2	F	105/108 (97%)	96 (91%)	8 (8%)	1 (1%)	15	54
2	H	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
All	All	14352/20580 (70%)	12919 (90%)	1053 (7%)	380 (3%)	8	31

All (380) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	806	PRO
1	A	900	ASN
1	A	914	PRO
1	A	916	PRO
1	A	971	ASP
1	A	1211	LEU
1	A	1216	ILE
1	A	1459	GLN
1	A	1763	PRO
1	A	1767	VAL
1	A	2341	VAL
1	A	3714	SER
1	A	4012	LEU
1	A	4037	ASN
1	A	4083	ASP
1	A	4084	PRO
1	A	4820	VAL
1	A	4868	ASP
1	A	4904	PRO
1	C	806	PRO
1	C	914	PRO
1	C	916	PRO
1	C	971	ASP
1	C	1211	LEU
1	C	1216	ILE
1	C	1459	GLN
1	C	1763	PRO

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Mol	Chain	Res	Type
1	C	1767	VAL
1	C	2341	VAL
1	C	3714	SER
1	C	4012	LEU
1	C	4037	ASN
1	C	4083	ASP
1	C	4084	PRO
1	C	4820	VAL
1	C	4868	ASP
1	C	4904	PRO
1	E	806	PRO
1	E	914	PRO
1	E	916	PRO
1	E	971	ASP
1	E	1211	LEU
1	E	1216	ILE
1	E	1459	GLN
1	E	1763	PRO
1	E	1767	VAL
1	E	2341	VAL
1	E	4012	LEU
1	E	4037	ASN
1	E	4083	ASP
1	E	4084	PRO
1	E	4820	VAL
1	E	4868	ASP
1	E	4904	PRO
1	G	806	PRO
1	G	914	PRO
1	G	916	PRO
1	G	971	ASP
1	G	1211	LEU
1	G	1216	ILE
1	G	1459	GLN
1	G	1763	PRO
1	G	1767	VAL
1	G	2341	VAL
1	G	3714	SER
1	G	3985	LEU
1	G	4012	LEU
1	G	4037	ASN
1	G	4083	ASP

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Mol	Chain	Res	Type
1	G	4084	PRO
1	G	4771	ILE
1	G	4820	VAL
1	G	4868	ASP
1	G	4904	PRO
1	A	334	MET
1	A	385	ASP
1	A	767	VAL
1	A	770	ALA
1	A	826	ILE
1	A	895	PRO
1	A	1483	VAL
1	A	1488	LYS
1	A	1582	SER
1	A	3844	LEU
1	A	3941	ASP
1	A	3944	GLU
1	A	4119	GLU
1	A	4770	SER
1	A	4771	ILE
1	A	4772	ASP
1	A	4870	ASP
1	A	4985	LEU
1	A	5027	CYS
1	C	334	MET
1	C	385	ASP
1	C	767	VAL
1	C	770	ALA
1	C	826	ILE
1	C	895	PRO
1	C	900	ASN
1	C	1483	VAL
1	C	1488	LYS
1	C	1582	SER
1	C	3844	LEU
1	C	3941	ASP
1	C	3944	GLU
1	C	4119	GLU
1	C	4770	SER
1	C	4771	ILE
1	C	4772	ASP
1	C	4870	ASP

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Mol	Chain	Res	Type
1	C	4985	LEU
1	C	5027	CYS
1	E	334	MET
1	E	385	ASP
1	E	767	VAL
1	E	770	ALA
1	E	826	ILE
1	E	895	PRO
1	E	900	ASN
1	E	1483	VAL
1	E	1488	LYS
1	E	1582	SER
1	E	3714	SER
1	E	3844	LEU
1	E	3944	GLU
1	E	4119	GLU
1	E	4770	SER
1	E	4771	ILE
1	E	4772	ASP
1	E	4870	ASP
1	E	4985	LEU
1	E	5027	CYS
1	G	334	MET
1	G	385	ASP
1	G	767	VAL
1	G	770	ALA
1	G	826	ILE
1	G	895	PRO
1	G	900	ASN
1	G	1483	VAL
1	G	1488	LYS
1	G	1582	SER
1	G	4119	GLU
1	G	4870	ASP
1	G	4984	ASN
1	G	5027	CYS
1	A	30	LYS
1	A	611	GLY
1	A	682	LEU
1	A	690	GLU
1	A	834	PRO
1	A	1206	GLN

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Mol	Chain	Res	Type
1	A	1254	HIS
1	A	1280	GLN
1	A	1606	SER
1	A	1772	ARG
1	A	1834	VAL
1	A	1857	GLU
1	A	2246	ASN
1	A	2466	LEU
1	A	3719	ASP
1	A	4158	PRO
1	A	4208	PRO
1	A	4867	GLU
1	A	4876	CYS
1	A	4893	ALA
1	C	30	LYS
1	C	611	GLY
1	C	682	LEU
1	C	690	GLU
1	C	834	PRO
1	C	1206	GLN
1	C	1254	HIS
1	C	1280	GLN
1	C	1512	THR
1	C	1606	SER
1	C	1772	ARG
1	C	1834	VAL
1	C	1857	GLU
1	C	2246	ASN
1	C	2466	LEU
1	C	3719	ASP
1	C	4158	PRO
1	C	4208	PRO
1	C	4867	GLU
1	C	4876	CYS
1	C	4893	ALA
1	E	30	LYS
1	E	611	GLY
1	E	682	LEU
1	E	690	GLU
1	E	834	PRO
1	E	1206	GLN
1	E	1254	HIS

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Mol	Chain	Res	Type
1	E	1280	GLN
1	E	1462	MET
1	E	1606	SER
1	E	1772	ARG
1	E	1834	VAL
1	E	1857	GLU
1	E	2246	ASN
1	E	2466	LEU
1	E	3719	ASP
1	E	3941	ASP
1	E	4158	PRO
1	E	4208	PRO
1	E	4867	GLU
1	E	4876	CYS
1	G	30	LYS
1	G	611	GLY
1	G	682	LEU
1	G	690	GLU
1	G	834	PRO
1	G	1206	GLN
1	G	1254	HIS
1	G	1280	GLN
1	G	1606	SER
1	G	1747	LEU
1	G	1772	ARG
1	G	1834	VAL
1	G	1857	GLU
1	G	2246	ASN
1	G	2466	LEU
1	G	3659	ALA
1	G	3719	ASP
1	G	3844	LEU
1	G	3944	GLU
1	G	4158	PRO
1	G	4208	PRO
1	G	4772	ASP
1	G	4867	GLU
1	G	4876	CYS
1	G	4893	ALA
1	A	56	GLN
1	A	701	GLY
1	A	827	LYS

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Mol	Chain	Res	Type
1	A	852	VAL
1	A	885	THR
1	A	1095	VAL
1	A	1284	VAL
1	A	1286	MET
1	A	1462	MET
1	A	1747	LEU
1	A	2546	MET
1	A	2826	ALA
1	A	3659	ALA
1	A	4905	ALA
1	C	56	GLN
1	C	701	GLY
1	C	827	LYS
1	C	828	GLU
1	C	852	VAL
1	C	885	THR
1	C	1095	VAL
1	C	1284	VAL
1	C	1286	MET
1	C	1462	MET
1	C	1747	LEU
1	C	2306	GLY
1	C	2546	MET
1	C	2826	ALA
1	C	3659	ALA
1	E	56	GLN
1	E	701	GLY
1	E	827	LYS
1	E	828	GLU
1	E	852	VAL
1	E	885	THR
1	E	1095	VAL
1	E	1284	VAL
1	E	1286	MET
1	E	1747	LEU
1	E	2306	GLY
1	E	2546	MET
1	E	2826	ALA
1	E	3659	ALA
1	E	4905	ALA
1	G	56	GLN

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Mol	Chain	Res	Type
1	G	701	GLY
1	G	720	HIS
1	G	827	LYS
1	G	828	GLU
1	G	852	VAL
1	G	885	THR
1	G	1095	VAL
1	G	1284	VAL
1	G	1286	MET
1	G	1462	MET
1	G	2306	GLY
1	G	2546	MET
1	G	3941	ASP
1	G	4207	MET
1	G	4905	ALA
1	A	298	GLY
1	A	676	THR
1	A	720	HIS
1	A	802	PHE
1	A	828	GLU
1	A	1139	PHE
1	A	1182	ILE
1	A	1550	PRO
1	A	2109	ASP
1	A	4207	MET
1	C	298	GLY
1	C	676	THR
1	C	720	HIS
1	C	802	PHE
1	C	1139	PHE
1	C	1182	ILE
1	C	1550	PRO
1	C	2109	ASP
1	C	4207	MET
1	C	4905	ALA
1	E	298	GLY
1	E	676	THR
1	E	720	HIS
1	E	802	PHE
1	E	908	VAL
1	E	1139	PHE
1	E	1182	ILE

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Mol	Chain	Res	Type
1	E	1550	PRO
1	E	2109	ASP
1	E	4207	MET
1	E	4893	ALA
1	G	298	GLY
1	G	676	THR
1	G	736	HIS
1	G	802	PHE
1	G	1139	PHE
1	G	1182	ILE
1	G	1515	VAL
1	G	1550	PRO
1	G	2109	ASP
1	A	1613	LEU
1	A	2306	GLY
1	C	581	ASN
1	C	1515	VAL
1	C	1613	LEU
1	C	1768	THR
1	E	1515	VAL
1	E	1613	LEU
1	E	1768	THR
1	G	1613	LEU
1	A	908	VAL
1	A	1602	PRO
1	C	908	VAL
1	C	1602	PRO
1	E	1589	PRO
1	E	1602	PRO
1	G	908	VAL
1	G	1589	PRO
1	G	1602	PRO
1	G	3808	GLY
1	A	1589	PRO
1	C	60	PRO
1	C	1589	PRO
1	E	60	PRO
1	A	60	PRO
1	A	438	ILE
1	A	1142	PRO
1	A	1437	VAL
1	C	438	ILE

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Mol	Chain	Res	Type
1	C	1142	PRO
1	C	1437	VAL
1	E	438	ILE
1	E	1142	PRO
1	E	1437	VAL
1	G	60	PRO
1	G	438	ILE
1	G	740	PRO
1	G	1142	PRO
1	G	1437	VAL
1	A	740	PRO
1	C	740	PRO
1	E	740	PRO
1	A	4035	VAL
2	B	7	ILE
2	D	7	ILE
2	F	7	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2502/4276 (58%)	2472 (99%)	30 (1%)	71	83
1	C	2504/4276 (59%)	2476 (99%)	28 (1%)	73	84
1	E	2501/4276 (58%)	2472 (99%)	29 (1%)	71	83
1	G	2501/4276 (58%)	2474 (99%)	27 (1%)	73	84
2	B	89/90 (99%)	88 (99%)	1 (1%)	73	84
2	D	89/90 (99%)	88 (99%)	1 (1%)	73	84
2	F	89/90 (99%)	88 (99%)	1 (1%)	73	84
2	H	89/90 (99%)	88 (99%)	1 (1%)	73	84
All	All	10364/17464 (59%)	10246 (99%)	118 (1%)	74	84

All (118) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	LEU
1	A	454	PRO
1	A	806	PRO
1	A	865	PRO
1	A	892	THR
1	A	914	PRO
1	A	916	PRO
1	A	928	THR
1	A	939	VAL
1	A	978	THR
1	A	979	PRO
1	A	1055	PRO
1	A	1211	LEU
1	A	1458	HIS
1	A	1459	GLN
1	A	1929	MET
1	A	2135	LEU
1	A	2518	LEU
1	A	2555	CYS
1	A	2914	LYS
1	A	2925	GLU
1	A	3814	GLN
1	A	3824	LYS
1	A	3835	LEU
1	A	3987	ASP
1	A	4039	MET
1	A	4082	THR
1	A	4106	PRO
1	A	4207	MET
1	A	4215	ARG
2	B	34	LYS
1	C	454	PRO
1	C	806	PRO
1	C	859	VAL
1	C	865	PRO
1	C	892	THR
1	C	914	PRO
1	C	916	PRO
1	C	928	THR
1	C	939	VAL
1	C	978	THR
1	C	979	PRO
1	C	1055	PRO

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Mol	Chain	Res	Type
1	C	1211	LEU
1	C	1458	HIS
1	C	1459	GLN
1	C	1929	MET
1	C	2135	LEU
1	C	2518	LEU
1	C	2555	CYS
1	C	2914	LYS
1	C	3814	GLN
1	C	3835	LEU
1	C	3987	ASP
1	C	4039	MET
1	C	4082	THR
1	C	4106	PRO
1	C	4207	MET
1	C	4215	ARG
2	D	34	LYS
1	E	454	PRO
1	E	806	PRO
1	E	865	PRO
1	E	892	THR
1	E	914	PRO
1	E	916	PRO
1	E	928	THR
1	E	939	VAL
1	E	978	THR
1	E	979	PRO
1	E	1055	PRO
1	E	1211	LEU
1	E	1458	HIS
1	E	1459	GLN
1	E	1513	ASP
1	E	1659	LEU
1	E	1929	MET
1	E	2135	LEU
1	E	2518	LEU
1	E	2555	CYS
1	E	2914	LYS
1	E	3814	GLN
1	E	3835	LEU
1	E	3987	ASP
1	E	4039	MET

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Mol	Chain	Res	Type
1	E	4082	THR
1	E	4106	PRO
1	E	4207	MET
1	E	4215	ARG
2	F	34	LYS
1	G	454	PRO
1	G	806	PRO
1	G	859	VAL
1	G	865	PRO
1	G	892	THR
1	G	914	PRO
1	G	916	PRO
1	G	928	THR
1	G	939	VAL
1	G	978	THR
1	G	979	PRO
1	G	1055	PRO
1	G	1211	LEU
1	G	1458	HIS
1	G	1459	GLN
1	G	1513	ASP
1	G	1929	MET
1	G	2135	LEU
1	G	2139	PRO
1	G	2518	LEU
1	G	2555	CYS
1	G	3824	LYS
1	G	4039	MET
1	G	4082	THR
1	G	4106	PRO
1	G	4207	MET
1	G	4215	ARG
2	H	34	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (155) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	113	HIS
1	A	201	ASN
1	A	224	HIS
1	A	278	GLN
1	A	379	HIS

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Mol	Chain	Res	Type
1	A	380	GLN
1	A	405	HIS
1	A	536	ASN
1	A	543	ASN
1	A	596	ASN
1	A	678	GLN
1	A	725	HIS
1	A	1127	HIS
1	A	1130	GLN
1	A	1201	HIS
1	A	1203	ASN
1	A	1459	GLN
1	A	1532	ASN
1	A	1631	GLN
1	A	1719	HIS
1	A	2184	ASN
1	A	2196	ASN
1	A	2253	HIS
1	A	2260	ASN
1	A	2498	HIS
1	A	2856	ASN
1	A	3771	HIS
1	A	3837	GLN
1	A	3882	GLN
1	A	3895	HIS
1	A	3896	ASN
1	A	3900	GLN
1	A	3906	GLN
1	A	3970	GLN
1	A	3994	HIS
1	A	3998	HIS
1	A	4857	ASN
1	A	4947	GLN
2	B	87	HIS
1	C	113	HIS
1	C	201	ASN
1	C	224	HIS
1	C	278	GLN
1	C	379	HIS
1	C	380	GLN
1	C	405	HIS
1	C	536	ASN

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Mol	Chain	Res	Type
1	C	543	ASN
1	C	596	ASN
1	C	678	GLN
1	C	725	HIS
1	C	1127	HIS
1	C	1130	GLN
1	C	1201	HIS
1	C	1203	ASN
1	C	1459	GLN
1	C	1532	ASN
1	C	1631	GLN
1	C	1719	HIS
1	C	2184	ASN
1	C	2196	ASN
1	C	2253	HIS
1	C	2260	ASN
1	C	2498	HIS
1	C	2856	ASN
1	C	3699	HIS
1	C	3771	HIS
1	C	3837	GLN
1	C	3882	GLN
1	C	3895	HIS
1	C	3896	ASN
1	C	3900	GLN
1	C	3906	GLN
1	C	3970	GLN
1	C	3994	HIS
1	C	3998	HIS
1	C	4947	GLN
2	D	87	HIS
1	E	113	HIS
1	E	201	ASN
1	E	224	HIS
1	E	278	GLN
1	E	379	HIS
1	E	380	GLN
1	E	405	HIS
1	E	536	ASN
1	E	543	ASN
1	E	596	ASN
1	E	678	GLN

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Mol	Chain	Res	Type
1	E	725	HIS
1	E	1127	HIS
1	E	1130	GLN
1	E	1201	HIS
1	E	1203	ASN
1	E	1459	GLN
1	E	1631	GLN
1	E	1719	HIS
1	E	2184	ASN
1	E	2196	ASN
1	E	2253	HIS
1	E	2260	ASN
1	E	2498	HIS
1	E	2856	ASN
1	E	3699	HIS
1	E	3771	HIS
1	E	3837	GLN
1	E	3882	GLN
1	E	3895	HIS
1	E	3896	ASN
1	E	3900	GLN
1	E	3906	GLN
1	E	3970	GLN
1	E	3994	HIS
1	E	3998	HIS
1	E	4857	ASN
1	E	4947	GLN
2	F	87	HIS
1	G	113	HIS
1	G	201	ASN
1	G	224	HIS
1	G	278	GLN
1	G	379	HIS
1	G	380	GLN
1	G	405	HIS
1	G	536	ASN
1	G	543	ASN
1	G	596	ASN
1	G	678	GLN
1	G	725	HIS
1	G	1127	HIS
1	G	1130	GLN

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Mol	Chain	Res	Type
1	G	1201	HIS
1	G	1203	ASN
1	G	1459	GLN
1	G	1631	GLN
1	G	1719	HIS
1	G	2184	ASN
1	G	2196	ASN
1	G	2253	HIS
1	G	2260	ASN
1	G	2498	HIS
1	G	2856	ASN
1	G	3771	HIS
1	G	3809	ASN
1	G	3896	ASN
1	G	3970	GLN
1	G	3994	HIS
1	G	3998	HIS
1	G	4034	ASN
1	G	4142	ASN
1	G	4728	HIS
1	G	4886	HIS
1	G	4947	GLN
1	G	4984	ASN
2	H	87	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

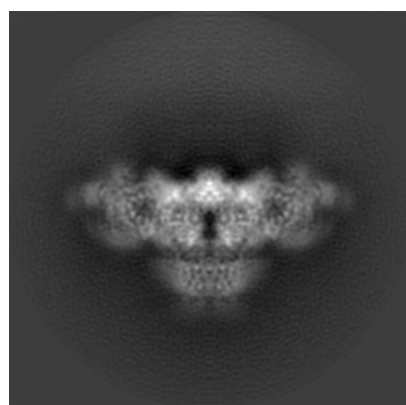
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9521. These allow visual inspection of the internal detail of the map and identification of artifacts.

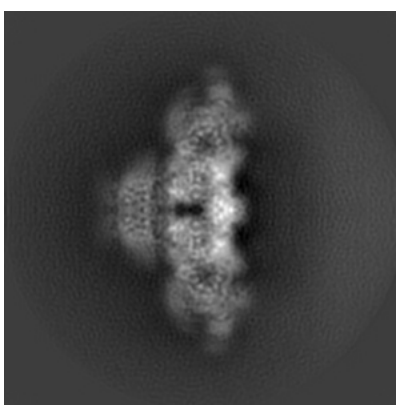
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

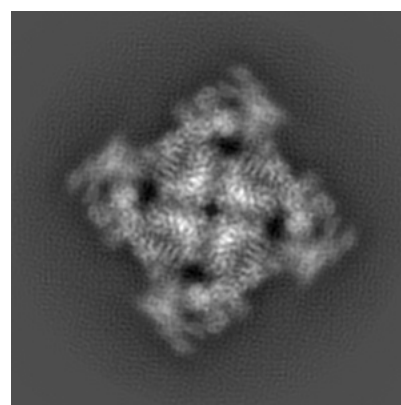
6.1.1 Primary map



X



Y

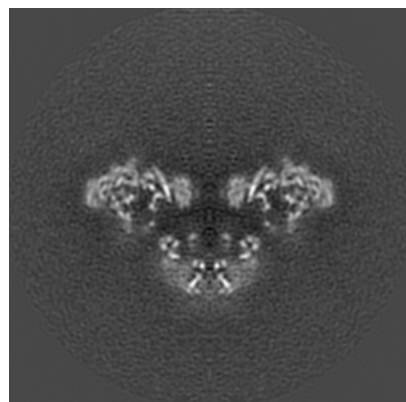


Z

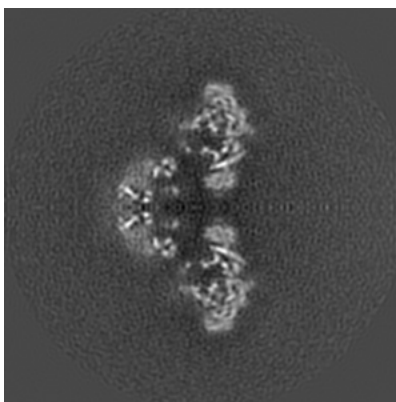
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

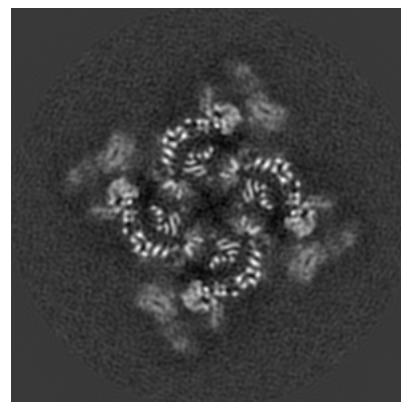
6.2.1 Primary map



X Index: 180



Y Index: 180

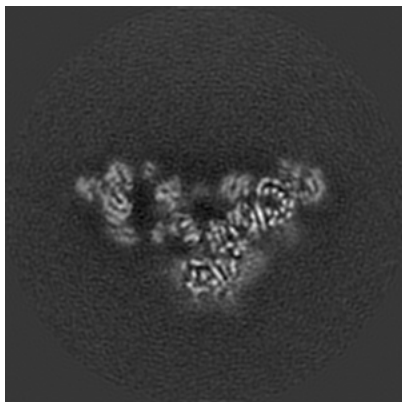


Z Index: 180

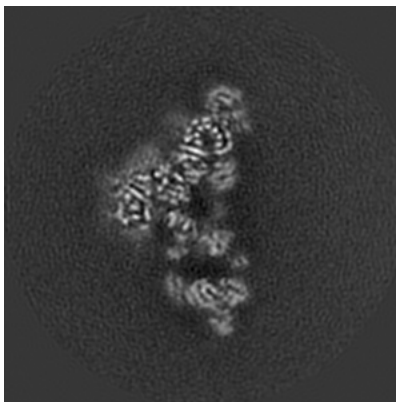
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

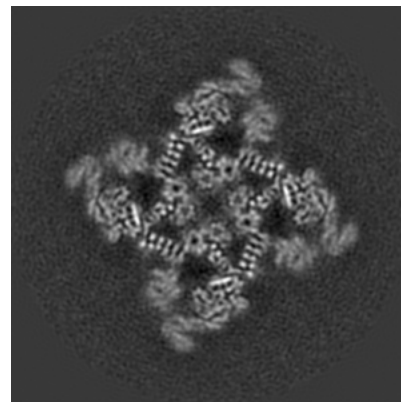
6.3.1 Primary map



X Index: 169



Y Index: 191

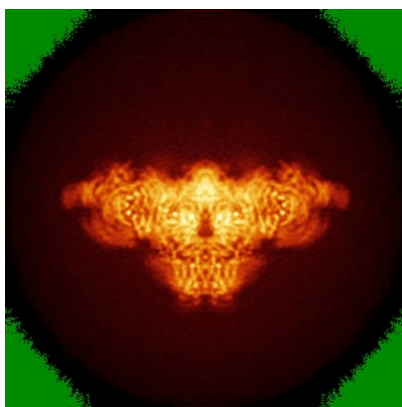


Z Index: 190

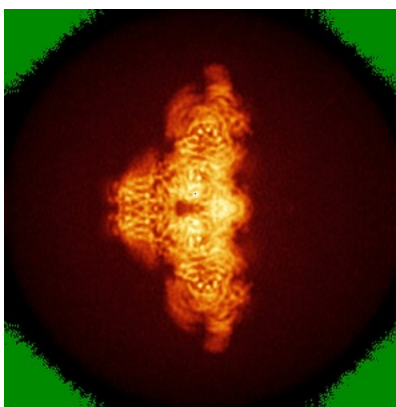
The images above show the largest variance slices of the map in three orthogonal directions.

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

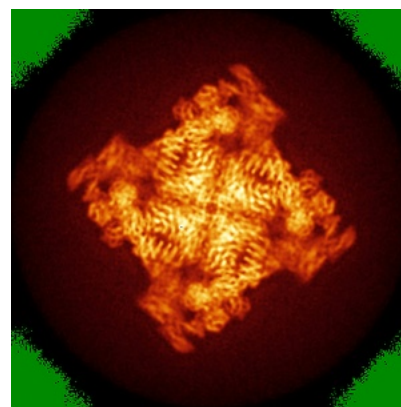
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.075. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

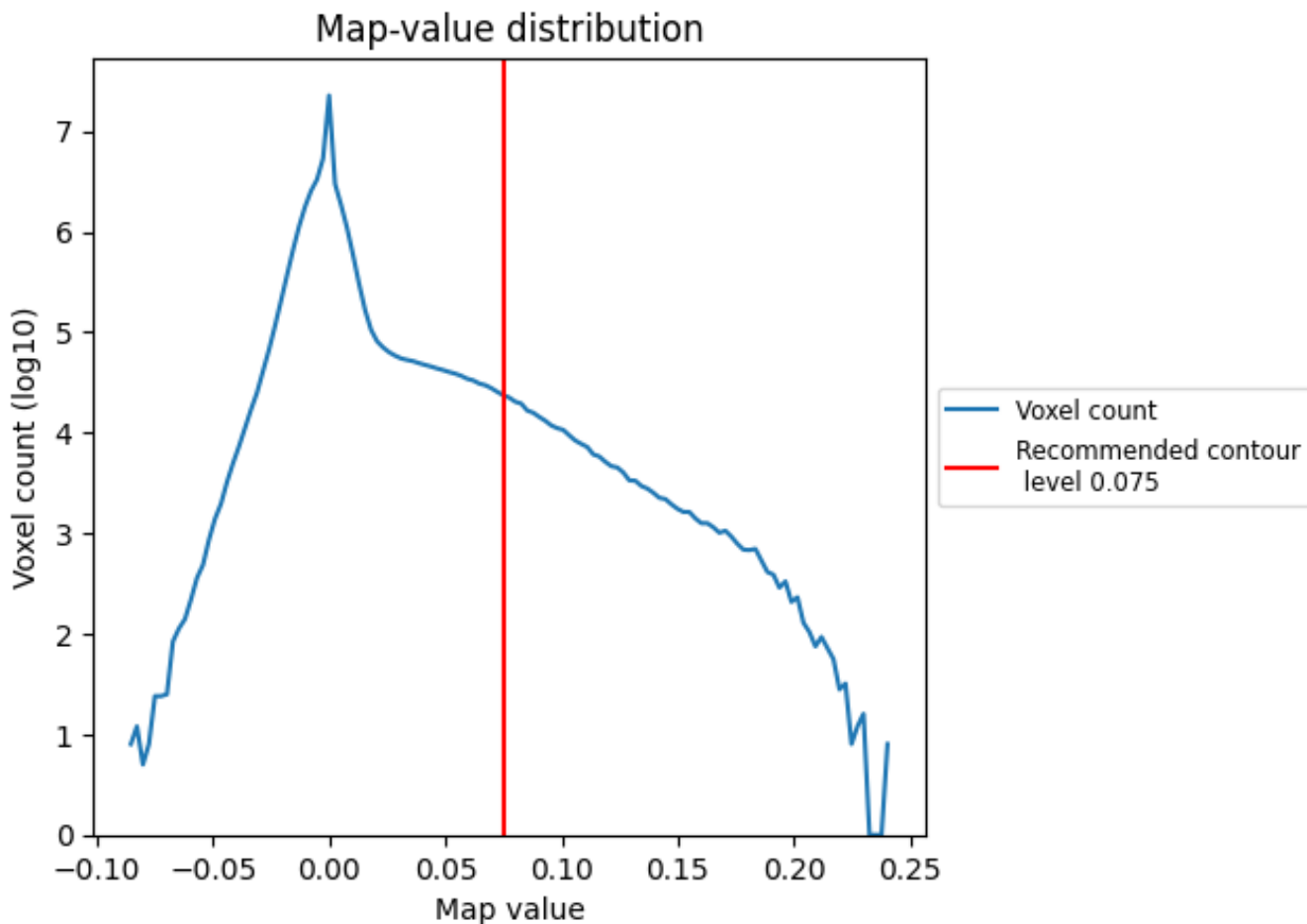
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

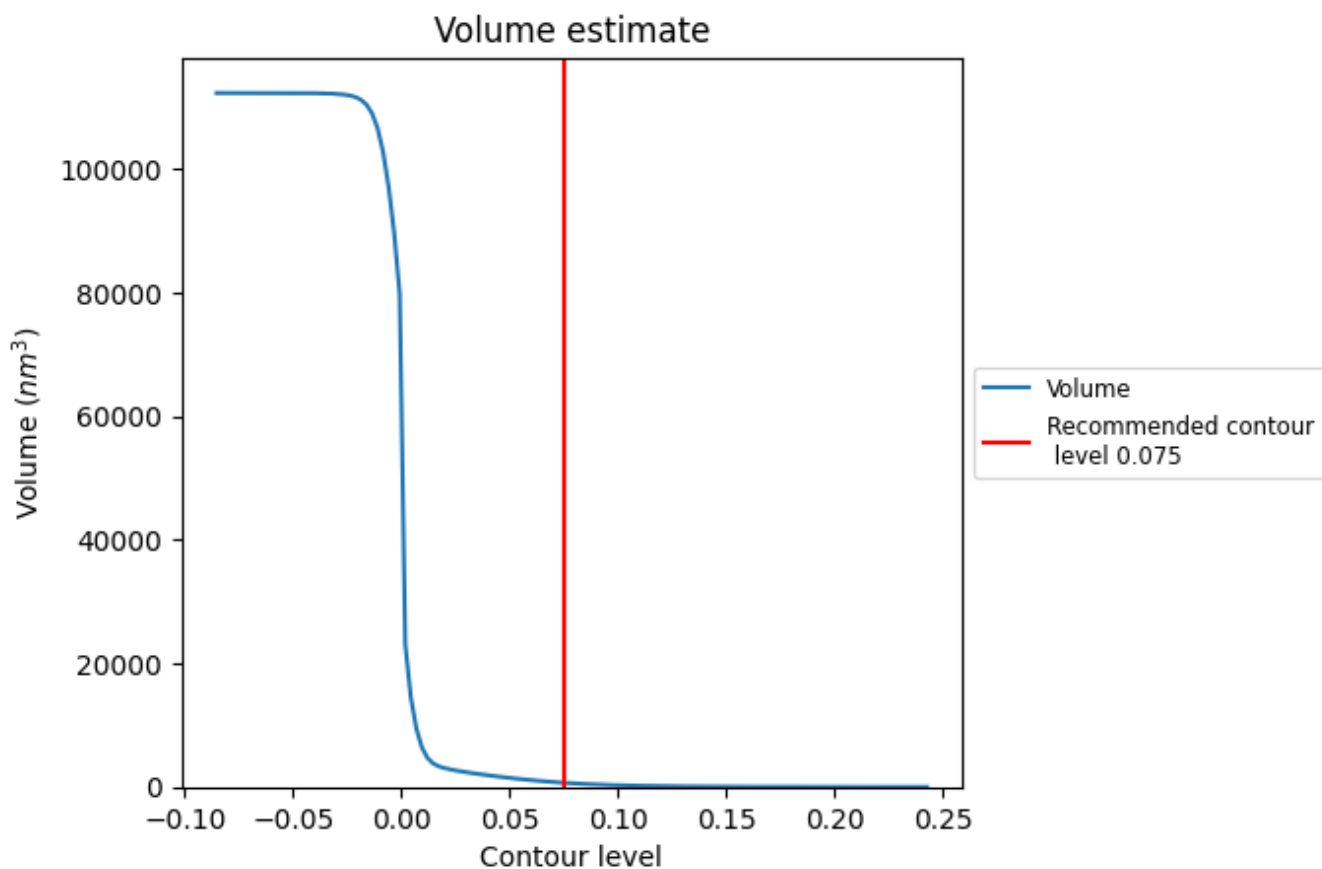
This section contains the results of statistical analysis of the map.

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.

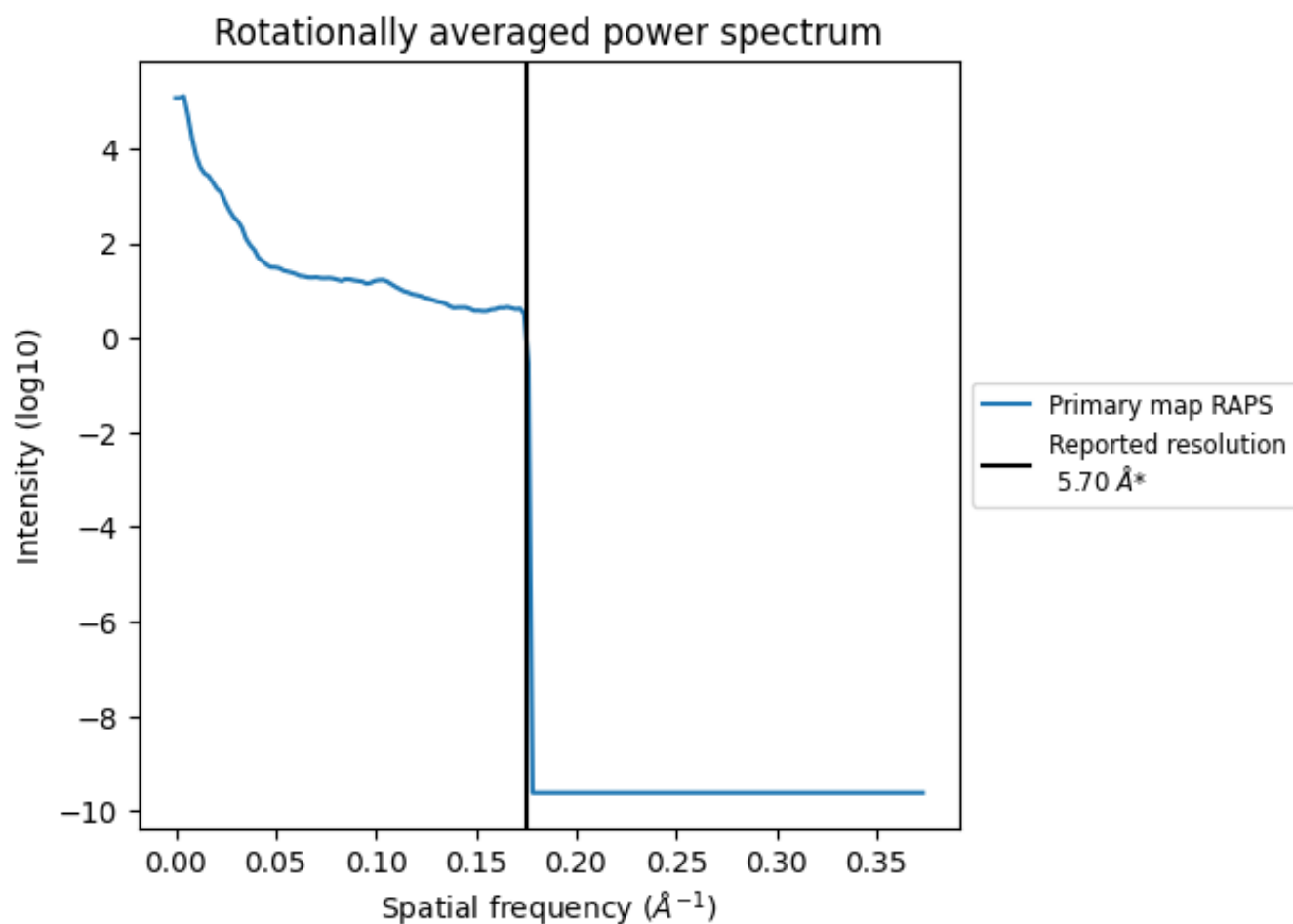
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 679 nm^3 ; this corresponds to an approximate mass of 613 kDa.

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

7.3 Rotationally averaged power spectrum [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.175 Å⁻¹

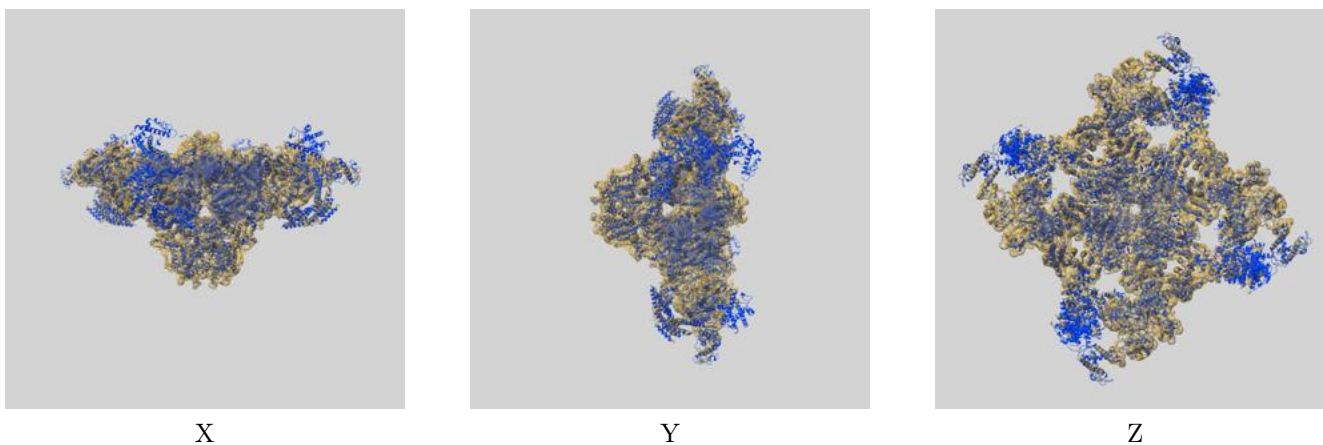
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

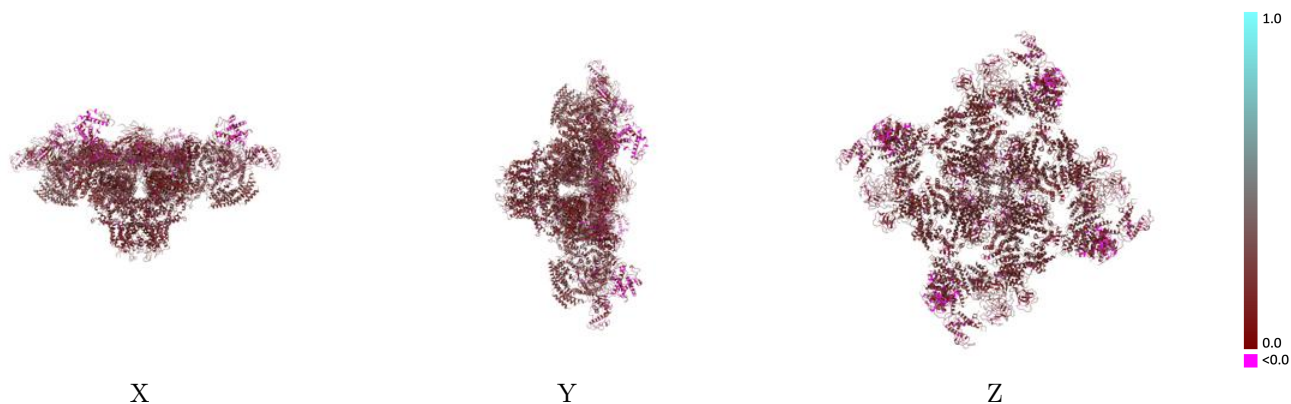
This section contains information regarding the fit between EMDB map EMD-9521 and PDB model 5GL1. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)



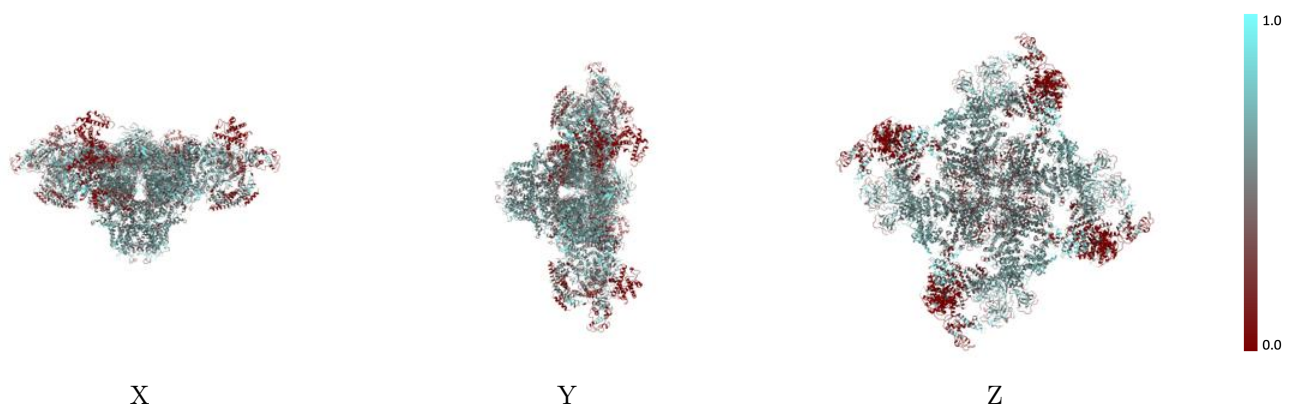
The images above show the 3D surface view of the map at the recommended contour level 0.075 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



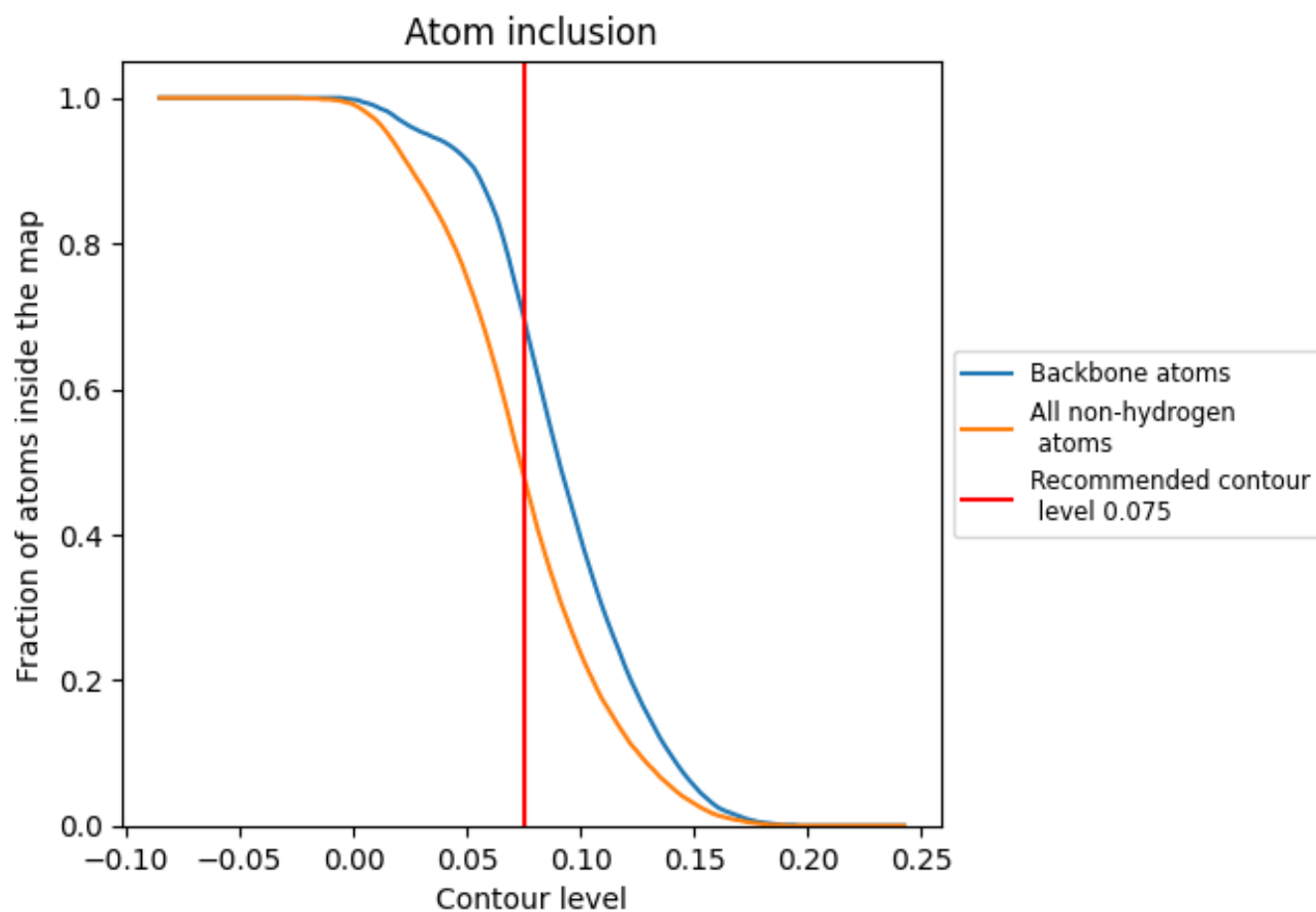
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.075).

9.4 Atom inclusion [i](#)



At the recommended contour level, 70% of all backbone atoms, 48% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.075) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4830	0.2010
A	0.4820	0.2020
B	0.4990	0.2060
C	0.4820	0.2010
D	0.4990	0.2080
E	0.4820	0.2010
F	0.5000	0.2050
G	0.4820	0.2010
H	0.4970	0.2040

