



Full wwPDB EM Validation Report ⓘ

Jun 16, 2025 – 05:42 PM EDT

PDB ID : 9E1A / pdb_00009e1a
EMDB ID : EMD-47387
Title : Structure of RyR1 in the primed state in the presence of dyphylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 3.35 Å(reported)
Based on initial model : 7TZC

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.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.44

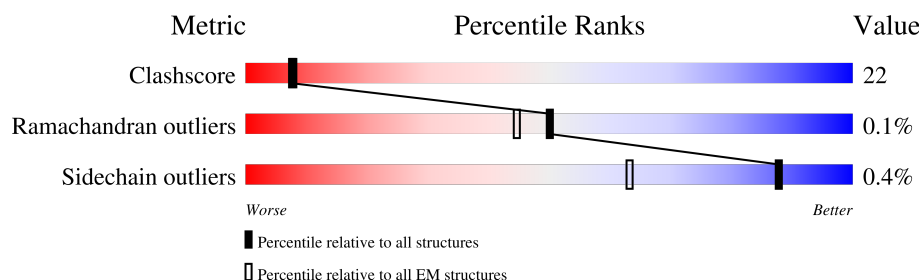
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.35 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	B	5037	
1	C	5037	
1	D	5037	
2	E	108	
2	F	108	
2	G	108	
2	H	108	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 144128 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.

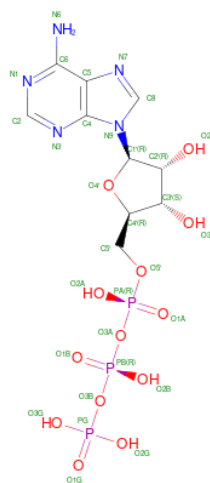
- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	B	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	D	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	C	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	H	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	G	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	F	107	Total	C	N	O	S	0	0
			831	527	146	154	4		

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



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

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	AltConf
4	A	1	Total Ca 1 1	0
4	B	1	Total Ca 1 1	0
4	D	1	Total Ca 1 1	0
4	C	1	Total Ca 1 1	0

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

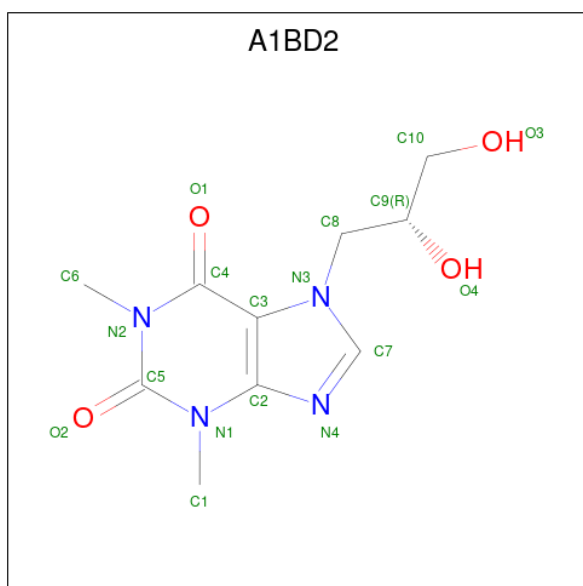
Mol	Chain	Residues	Atoms	AltConf
5	A	1	Total Zn 1 1	0

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Mol	Chain	Residues	Atoms		AltConf
5	B	1	Total	Zn	0
			1	1	
5	D	1	Total	Zn	0
			1	1	
5	C	1	Total	Zn	0
			1	1	

- Molecule 6 is dyphylline (CCD ID: A1BD2) (formula: $C_{10}H_{14}N_4O_4$) (labeled as "Ligand of Interest" by depositor).

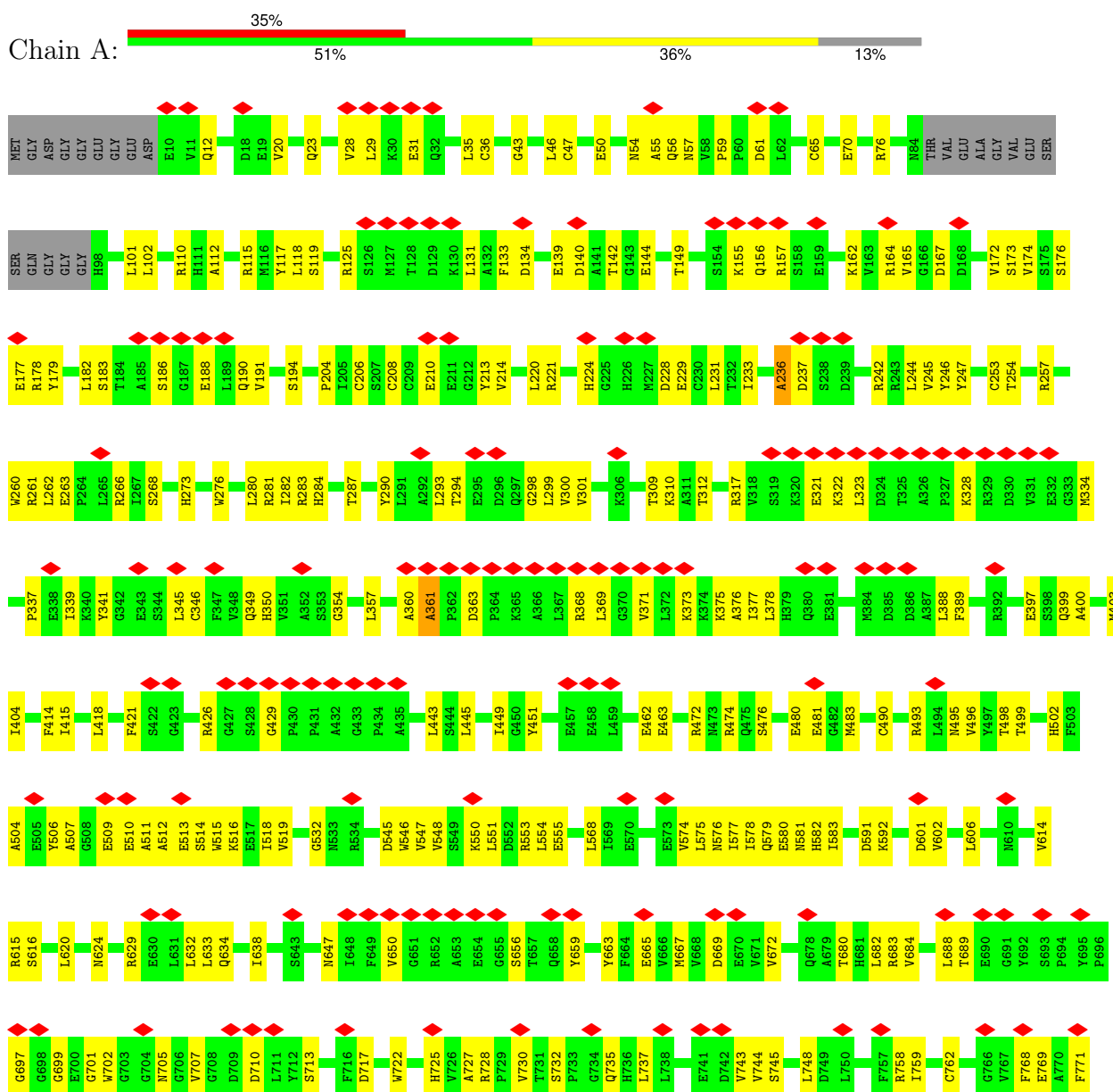


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			18	10	4	4	
6	B	1	Total	C	N	O	0
			18	10	4	4	
6	D	1	Total	C	N	O	0
			18	10	4	4	
6	C	1	Total	C	N	O	0
			18	10	4	4	

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

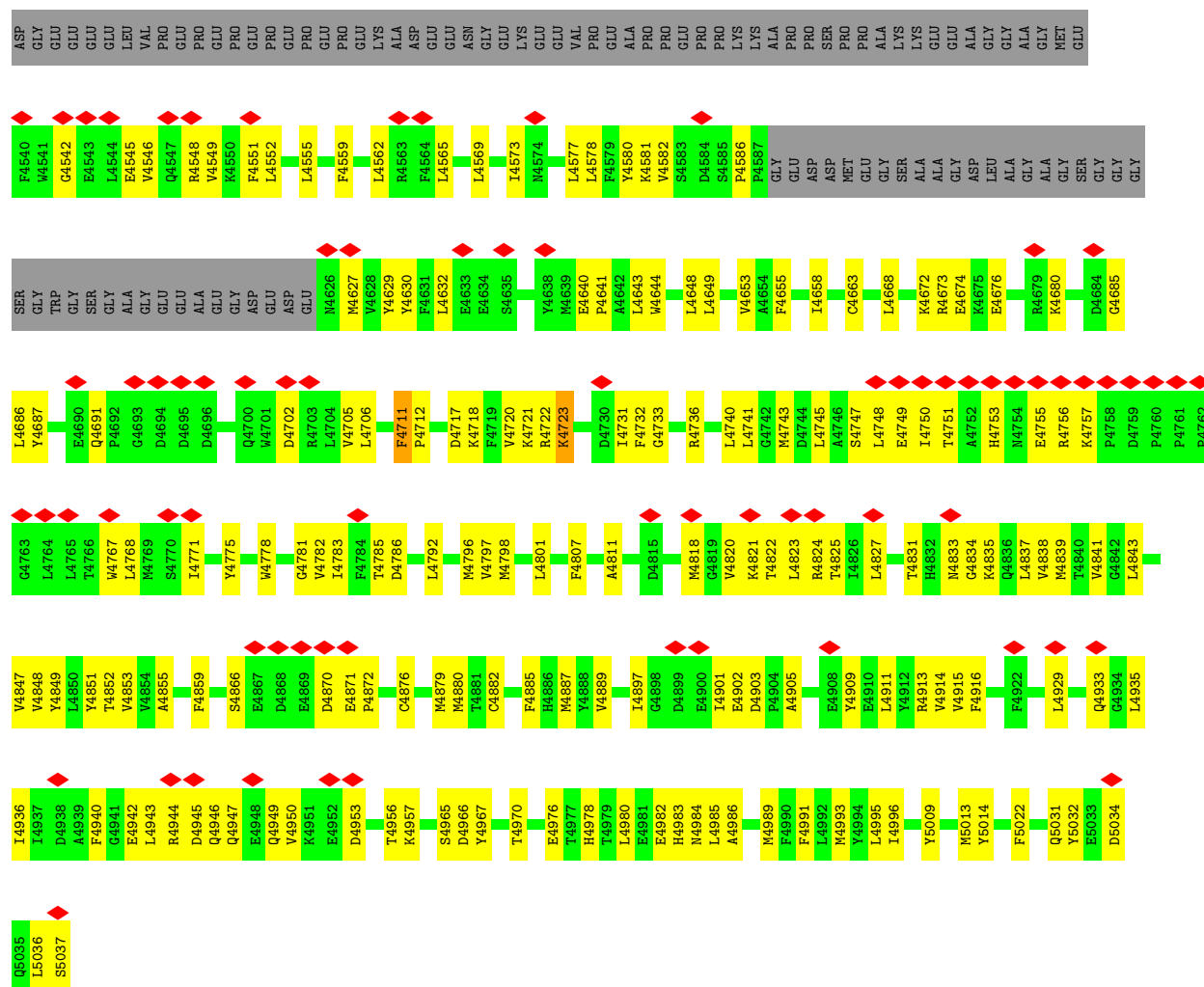


R1594	L1595	Q1598	M1599	L1600	M1601	P1602	V1603	M1608	P1609	N1610	E1616	T1617	R1618	R1619	A1620	W1626	A1627	V1628	D1632	M1636	A1637	L1638	H1640	I1641	P1642	E1643	E1644	N1645	R1646	C1647	M1648	D1649	D1658	R1668	R1671	L1676	N1679	R1680	L1694	L1698	E1699	D1700	A1701	H1702	L1703																						
D1513	L1514	V1515	I1516	A1523	M1527	A1531	N1532	G1533	K1534	M1537	T1538	F1539	F1540	Q1541	V1542	K1547	L1548	F1549	P1550	A1551	V1554	L1555	V1561	I1562	Q1563	F1564	N1565	L1566	G1567	K1568	Q1569	L1570	N1571	I1572	M1573	P1574	L1575	W1576	A1577	M1578	F1580	E1583	R1584	K1585	N1586	Q1590	C1591	F1592	P1593																		
S1446	C1447	V1448	V1449	V1453	T1454	P1455	D1456	D1461	M1462	M1463	F1464	D1465	L1466	S1467	K1468	V1469	R1470	V1474	T1475	M1476	G1477	D1478	E1479	Q1480	G1481	M1482	V1483	H1484	S1485	S1486	L1487	K1488	C1489	S1490	N1491	C1492	T1493	M1494	V1495	W1496	G1497	G1498	D1499	F1500	V1501	S1502	P1503	G1504	Q1505	Q1506	G1507	I1508	S1510	H1511	T1512												
L1513	L1514	V1515	I1516	A1523	M1527	A1531	N1532	G1533	K1534	M1537	T1538	F1539	F1540	Q1541	V1542	K1547	L1548	F1549	P1550	A1551	V1554	L1555	V1561	I1562	Q1563	F1564	N1565	L1566	G1567	K1568	Q1569	L1570	N1571	I1572	M1573	P1574	L1575	W1576	A1577	M1578	F1580	E1583	R1584	K1585	N1586	Q1590	C1591	F1592	P1593																		
ALA	ASN	LYS	LYS	ARG	GLU	PRO	ASP	ASP	TYR	GLU	ASN	LEU	LEU	ARG	ARG	SER	ALA	LYS	THR	GLY	GLY	TRP	GLY	GLY	TRP	GLY	GLY	LYS	LYS	ARG	GLY	LEU	PRO	THR	ALA	HIS	LYS	ASP	VAL	GLY	VAL	GLY	PRO	THR	ALA	D1419	N1420	R1421	D1422	D1423	P1424	E1425	I1426	I1427	L1428	N1429	T1430	T1431	T1432	Y1433	Y1434	Y1435	S1436	V1439	F1440	A1441	P1445
R1180	E1181	T1182	E1183	T1184	G1185	D1186	G1187	F1188	L1189	P1190	V1191	P1196	V1199	L1204	Q1205	Q1206	D1207	V1208	S1209	S1210	L1211	R1212	I1216	G1217	G1218	L1219	Q1220	E1221	G1222	F1223	E1224	A1227	I1228	M1229	M1230	Q1231	R1232	P1233	V1234	T1235	T1236	K1240	S1241	Q1244	F1245	E1251	H1252	Y1255	E1256																		
R1259	M1260	D1261	G1262	T1263	V1264	D1265	T1266	C1269	L1270	P1271	L1272	R1276	T1276	W1277	G1278	S1279	Q1280	N1281	S1282	V1283	V1284	E1285	M1286	L1287	F1288	L1289	R1290	L1293	Q1296	F1297	H1298	D1299	H1300	F1301	R1302	C1303	T1304	ALA	GLY	ALA	THR	PRO	GLU	LEU	ASP	GLU	ALA	THR	THR	GLU																	
W1104	A1105	R1106	E1108	L1109	P1110	P1111	D1112	V1113	E1114	L1115	G1116	A1117	D1118	E1119	L1120	V1123	F1124	G1126	H1127	R1128	G1129	W1132	H1133	L1134	G1135	S1136	R1141	G1146	D1147	V1148	V1149	L1153	D1154	L1155	T1156	E1157	N1158	I1161	F1162	L1169	M1170	S1171	D1172	S1173	G1174	E1176	S1177	A1178	F1179																		
A1030	T1031	K1032	R1033	S1034	N1035	R1036	D1037	S1038	L1039	C1040	Q1041	A1042	V1043	R1044	T1045	L1046	L1047	G1048	Y1049	G1050	Y1051	N1052	I1053	E1054	P1055	P1056	D1057	Q1058	E1059	P1060	S1061	Q1062	V1063	G1064	N1065	Q1066	S1067	R1068	W1069	D1070	R1071	V1072	R1073	I1074	K1079	Q1084	R1087	W1088	E1093	E1099	M1100	R1101	V1102	G1103													
P967	A968	P969	L970	D971	L972	S973	H974	V975	R976	L977	T978	P979	A980	Q981	T982	T983	L984	V985	D986	R987	L988	A989	E990	N991	G992	H993	N994	W995	A997	R998	V1001	A1002	Q1003	G1004	W1005	S1006	Y1007	S1008	A1009	Q1011	P1014	A1015	R1016	R1017	R1020	L1021	V1022	F1023	Y1024	R1025	L1026	L1027	D1028	E1029													
L907	V908	N909	F910	H911	S912	L913	P914	E915	P916	E917	R918	N919	Q920	N921	L922	Q923	M924	S925	G926	E927	L928	L929	K930	T931	L932	L933	A934	L935	G936	C937	H938	V939	Q940	M941	A942	D943	E944	K945	A946	E947	D948	N949	L950	K951	Q952	T953	K954	L955	P956	K957	T958	Y959	M960	M961	S962	N963	G964	Y965	K966								
S847	H848	T849	D850	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865	H866	L867	E868	R869	I870	R871	E872	K873	L874	A875	E876	N877	I878	H879	E880	L881	W882	L882	A883	L884	T885	R886	L887	E888	Q889	G890	W891	T892	Y893	P895	V896	R897	D898	D899	N900	K901	R902	L903	H904	P905	C906								
N772	L773	D774	G775	F777	V781	S782	F783	G786	V787	K788	V789	R790	F791	L792	L793	R796	E799	F800	K801	F802	P806	G807	C811	H812	E813	A814	V815	L816	P817	R818	E819	R820	L821	R822	L823	K827	E828	Y829	R830	R831	R835	L839	V840	G841	P842	S843	R844	C845	L846																		

P1704	P1705	P1706	P1707	G1710	G1711	Y1712	D1713	L1714	L1715	I1716	L1720	E1721	G1724	R1727	E1733	E1741	T1742	I1745	P1749	P1750	G1751	R1752	K1753	G1754	G1755	M1756	A1757	R1758	R1759	L1762	L1771	R1772	P1773	S1778	F1782	V1783	A1784	A1785	L1786	P1787	A1788	A1789	G1790	V1791	A1792	E1793	A1794							
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GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	ASP	GLU	GLU	GLU	LYS	GLU	GLU	GLU	GLU	LYS	ASP	ALA	GLU	GLU	GLU	ALA	PRO	GLU	GLY	LYS	GLU	ASP	L1922	E1923	E1924	G1925	L1926	L1927	Q1928	M1929	K1930	L1931	V1935	K1936	L1937	Q1938	M1939	Y1945								
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LEU	PRO	ALA	E2088	K2089	K2090	P2091	Q2092	S2093	E2096	L2097	M2101	V2102	M2105	D2109	Y2110	Y2111	Q2112	L2116	M2120	F2121	M2203	L2123	Q2127	Y2128	D2129	E2133	L2134	L2135	L2138	P2139	R2140	A2141	Y2142	P2146	Y2149	D2150	D2151	T2152	M2153	S2154	L2155	Q2161	L2165	S2231	C2232	C2233	C2234							
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R2385	I2386	S2387	E2388	D2389	P2390	A2391	R2392	D2393	G2394	P2395	G2396	ARG	ARG	ASP	ARG	ARG	ARG	GLU	HIS	PHE	GLY	GLU	P2410	F2411	E2412	E2413	N2414	R2415	V2416	H2417	L2418	G2419	H2420	F2425	I2430	D2431	G2434	R2435	C2436	A2437	M2440	H2441	L2442	I2443	Q2444	K2447	G2448	E2449	A2450	L2451	R2452	I2453		
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H2520	D2523	V2524	G2525	F2526	P2527	P2528	D2529	M2530	R2531	A2532	A2533	A2534	S2535	L2536	D2537	T2538	A2539	T2540	F2541	S2542	T2543	T2544	E2545	M2546	A2549	R2552	Y2553	L2554	C2555	L2556	I2562	T2563	K2564	C2565	A2566	P2567	L2568	F2569	A2570	Q2571	T2572	E2573	H2574	R2575	A2576	I2577	M2578	V2579	S2581	M2582	L2583	H2584	T2585	V2586
Y2587	R2588	L2589	S2590	G2592	R2593	L2594	L2595	A2598	Q2599	D2600	D2601	V2602	L2603	E2604	L2607	M2608	A2609	L2610	C2611	T2612	L2614	R2615	P2616	S2617	M2618	L2619	Q2620	H2621	C2622	L2623	R2624	L2625	L2626	V2627	F2628	P2631	I2632	L2633	N2634	E2635	F2636	A2637	L2641	K2642	L2643	L2644	H2647	Y2648	R2649	R2650	C2651			

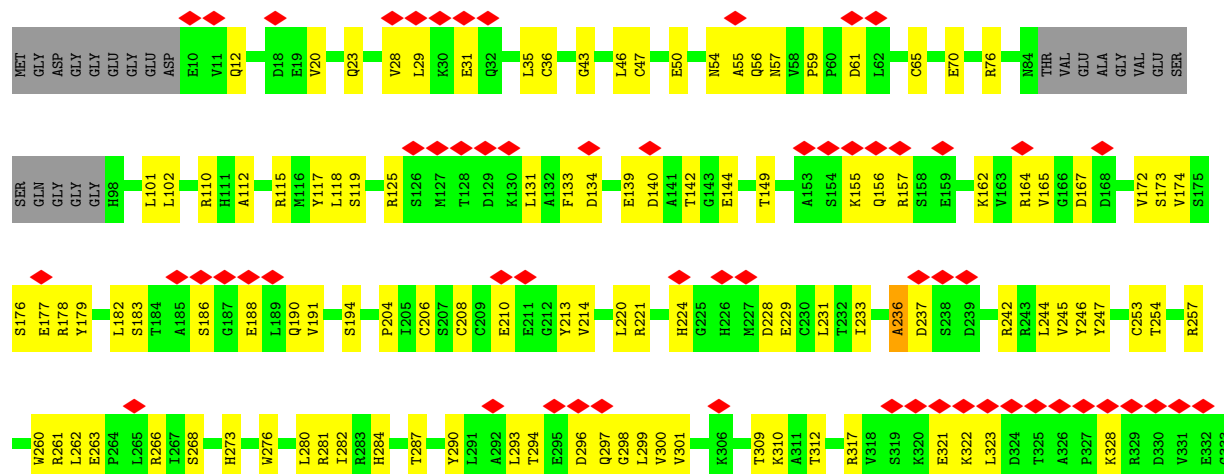
E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	V3406	A3407	L3408	V3409	F3410	L3411	L3412	L3413	L3414	Y3415	V3416	D3417	N3418	N3419	R3420	A3421	H3422	V3423	L3424	T3425	E3426	P3427	N3428	A3429	N3430	E3431	E3432	E3433	L3434	F3435	R3436		
G3317	N3318	I3319	L3320	R3321	I3322	I3323	V3324	N3325	N3326	L3327	G3328	I3329	D3330	E3331	A3332	T3333	W3334	M3335	K3336	R3337	L3338	A3339	V3340	F3341	A3342	Q3343	P3344	I3345	V3346	S3347	R3348	A3349	R3350	P3351	E3352	L3353	L3354	H3355	S3356	H3357	F3358	I3359	P3360	T3361	I3362	G3363	R3364	L3365	R3366	K3367	R3368	A3369	G3370	K3371	V3372	L3373	A3374	E3375	R3376		
A3257	E3258	S3259	G3260	A3261	R3262	Y3263	T3264	E3265	M3266	P3267	H3268	V3269	I3270	E3271	T3272	T3273	L3274	P3275	M3276	L3277	C3278	S3279	Y3280	L3281	P3282	R3283	W3284	E3285	E3286	R3287	P3288	P3289	E3290	A3291	P3292	P3293	L3294	A3295	L3296	P3297	A3298	G3299	A3300	P3301	P3302	P3303	C3304	T3305	A3306	V3307	T3308	S3309	D3310	H3311	L3312	N3313	L3314	L3315	L3316		
G3317	N3318	I3319	L3320	R3321	I3322	I3323	V3324	N3325	N3326	L3327	G3328	I3329	D3330	E3331	A3332	T3333	W3334	M3335	K3336	R3337	L3338	A3339	V3340	F3341	A3342	Q3343	P3344	I3345	V3346	S3347	R3348	A3349	R3350	P3351	E3352	L3353	L3354	H3355	S3356	H3357	F3358	I3359	P3360	T3361	I3362	G3363	R3364	L3365	R3366	K3367	R3368	A3369	G3370	K3371	V3372	L3373	A3374	E3375	R3376		
L3136	L3137	P3138	V3139	L3140	T3141	T3142	L3143	F3144	Q3145	H3146	I3147	A3148	Q3149	H3150	Q3151	F3152	G3153	D3154	L3155	V3156	I3157	L3158	D3159	D3160	V3161	Q3162	V3163	S3164	C3165	Y3166	R3167	T3168	L3169	I3170	Y3171	S3172	L3173	L3174	L3175	G3176	T3177	T3178	K3179	N3180	T3181	Y3182	V3183	E3184	L3185	L3186	R3187	P3188	A3189	L3190	G3191	E3192	C3193	L3194	A3195	R3196	
D3076	A3077	R3078	T3079	V3080	M3081	K3082	S3083	G3084	P3085	E3086	I3087	V3088	K3089	A3090	G3091	L3092	R3093	S3094	F3095	E3096	E3097	S3098	A3099	S3100	E3101	D3102	I3103	E3104	K3105	M3106	V3107	E3108	N3109	L3110	R3111	L3112	G3113	K3114	V3115	S3116	G3117	ALA	ARG	THR	GLN	VAL	K3123	G3124	V3125	G3126	Q3127	N3128	L3129	T3130	V3131	T3132	T3133	V3134	A3135		
Y3016	F3017	L3018	S3019	T3020	P3021	A3022	K3023	V3024	L3025	G3026	S3027	G3028	G3029	H3030	A3031	S3032	N3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042	F3043	C3044	K3045	L3046	A3047	A3048	L3049	V3050	R3051	H3052	E2992	Q2993	E2994	L2995	K2996	F2997	P2998	A2999	K3000	T3001	L3002	A3003	P3004	L3005	T3006	N3007	C3008	Y3009	F3010	T3011	N3012	A3072	R3073	S3074	L3075
A2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	R2920	E2921	K2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	LYS	ASP	GLU	THR	L2946	D2947	T2948	S2949	S2950	I2951	E2952	R2954	F2955			
K2956	F2957	G2958	L2959	L2960	Q2961	Q2962	L2963	L2964	K2965	W2966	D2967	D2968	T2969	S2970	Q2971	E2972	F2973	L2974	H2975	L2976	L2977	E2978	A2979	V2980	V2981	S2982	S2983	G2984	R2985	V2986	E2987	K2988	L2989	K2990	H2991	E2992	Q2993	E2994	L2995	K2996	F2997	P2998	A2999	K3000	T3001	L3002	A3003	P3004	L3005	T3006	N3007	C3008	Y3009	F3010	T3011	N3012	A3072	R3073	S3074	L3075	
LYS	LYS	LYS	THR	ARG	LYS	ILE	SER	GLN	THR	ALA	GLN	TTR	ASP	PRO	ARG	GLU	GLY	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	Q2864	V2865	T2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	N2874	E2875	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	Q2891	Q2892	E2893	L2894	E2895				
S2776	Y2777	G2778	E2779	N2780	Y2781	D2782	E2783	L2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	R2805	R2806	W2807	P2808	L2809	K2810	E2811	S2812	L2813	K2814	A2815	W2816	L2817	A2818	W2819	E2820	W2821	T2822	I2823	E2824	K2825	A2826	R2827	E2828	E2829	E2830	GLU	GLU	ARG	THR	GLU		
D2716	A2717	S2718	Y2719	N2720	S2721	K2722	A2723	E2724	K2725	LYS	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2734	F2735	D2736	P2737	R2738	P2739	F2740	E2741	V2680	G2681	L2682	F2683	D2684	S2685	L2686	A2687	H2688	K2689	K2690	Y2691	D2692	D2693	E2694	L2695	Y2696	R2697	W2698	K2699	R2701	C2702	L2703	C2704	A2705	L2706	A2707	G2708	A2709	L2710	P2711	T2712	D2713	Y2714	W2715	





• Molecule 1: Ryanodine receptor 1

Chain B:



ASP	Y1255	S1175	R1101	D1028	Y965	P905	C845	L773	G998	R615	A504	I404	M334
GLU	E1256	E1176	V1102	E1029	K966	C906	L846	D774	G699	S616	E505	F414	G335
ALA		T1177	G1103	A1030	P967	L907	S847	G775	E700	L620	Y506	I415	P336
ALA	R1259	A1178	A1105	T1031	A968	Y908	H848	L776	G701	E223	E509	L418	E339
GLU	M1260	F1179	R1106	R1032	P969	N909	T849	F777	G702	N624	E510	Y341	I339
PRO	D1261	R1180	P1107	R1033	D970	H911	F851	S782	G704	R629	E511	F421	K340
ASP	G1262	E1181	E1108	R1034	D971	S912	V852	F783	G706	E300	A512	S422	G342
PRO	T1263	I1182	R1109	R1035	L972	L913	P853	G786	G707	E630	E513	G423	E343
ASP	V1264	E1183	R1110	R1036	S973	P914	C854	G787	G708	L632	S514	R426	S344
TYR	D1265	I1184	P1111	R1037	H974	E915	P855	K788	D709	L633	W515	G427	L345
GLN	T1266	G1185	D1112	S1038	V975	P916	V856	G789	D710	Q634	E517	S428	C346
ASN				L1039	R976	E917	D857	R790	D712	I638	E518	G429	F347
LEU	C1269	F1186	E1114	L1039	L977	R918	T858	F791	S713		E519	P430	V348
ARG	L1270	G1187	L1115	L1040	L978	R918	D857	L792				P431	Q349
SER	R1271	F1188	L1116	Q1041	T977	R918	T858	L792				P431	H350
ALA		P1190	A1117	A1042	P979	N919	V859	L793	F716	S943	G532	P431	G354
GLY		V1191	D1118	V1043	A880	R920	Q860	G794	D717	N647	N533	A432	
TRP		P1196	E1119	R1044	Q881	Y921	T861	G795	W722	I648	R534	G433	L357
GLY		V1199	L1120	T1045	T982	L922	V862	R796				A435	
GLU			V1123	L1046	T983	Q923	L863	E799	H725	V650	D545	L443	A360
GLU		L1204	F1124	L1047	L984	N924	P864	F800	V726	G651	V546	L443	A361
GLY	G1205	G1205	N1125	G1048	V985	S925	P865	K801	A727	R652	V547	L445	P362
GLY	Q1206	Q1206	H1126	Y1049	D986	G926	H866	F802	R728	A653	S549	L445	D363
LYS	D1207	D1207	L1127	G1050	R987	E927	L867	P729	P729	E654	K550	L449	P364
GLU	V1208	V1208	R1128	G1051	L988	T928	E868	P806	V730	G655	D552	G450	K365
GLY	E1265	S1209	G1129	Y1052	A889	L929	R869	G807	S732	T657	R553	Y451	A366
THR	M1286	S1210	M1052	M1052	L989	L929			S732	Q558	E555	E457	K367
ALA	L1287	I1211	I1053	I1053	E990	K930	L870	C811	G734	Y659	L568	E458	R368
LYS	F1288	H1133	E1054	E1054	N991	T931	R871	H812	Q735		L569	L459	L369
GLU	L1289	L1134	P1055	P1055	G992	L932	E872	E813	L737	Y663	I569	E463	G370
THR	R1290	G1135	P1056	P1056	N994	L933	K873	A814	L739	F664	E573	E463	L372
PRO		S1136	D1057	D1057	V995	A934	L874	V815		E665	V574	R472	K374
GLY			Q1058	Q1058	W996	L935	A875	L816	E741		L575	M473	K375
GLY	Q1220	Q1220	E1059	E1059	A997	G936	E876	P817	D742	D669	L576	R474	A376
THR	E1221	E1221	P1060	P1060	R998	C937	N877	R818	V743	E670	I577	Q475	I377
GLN	F1223	F1223	S1061	S1061	H938	H938	L878	E819	W744	W671	I578	S476	L378
PRO	E1224	E1224	Q1062	Q1062	V939	V939	H879	R820	S745	V672	Q579		
GLY			V1063	V1063	G940	G940	E880	L821		Q678	E580	E480	E381
VAL	A1227	A1227	Q1064	Q1064	H941	H941	L881	R822	L748	A879	N581	E481	G382
GLU	I1228	I1228	E1064	E1064	V1005	A942	W882	L823	D749	T880	H582	E481	G382
ALA	M1229	M1229	M1065	M1065	S1006	D943	A883	E824	L750	H681	I583	M483	H383
GLN	M1230	M1230	Q1066	Q1066	S1008	E944	L884	K827	F757	R682	D591	C490	M384
PRO	Q1231	Q1231	S1067	S1067	S1008	E944	T885	E828	R758	L682	K592	C490	D386
VAL	R1232	R1232	M1068	M1068	A1009	A946	R886	Y829	L759	V684	D601	R493	A387
ARG	P1233	P1233	V1069	V1069	V1010	E947	T887	R830	C762		V502	R493	L388
ALA	V1234	V1234	D1070	D1070	Q1011	P948	E888	R831	G766	T689	L506	L494	F389
ALA	T1235	T1235	R1071	R1071	P1014	H949	Q889	E832	V767	E890		M495	
ASN	T1236	T1236	V1072	V1072	A1015	L950	K891	R635	F768	G691		V496	
PRO	K1240	K1240	I1074	I1074	R1016	R951	T892	L839	A770	Y692	N610	T497	R392
GLY	S1241	S1241	F1075	F1075	R1017	K952	H893	G841	E769	P694		T499	E397
GLY	Q1244	Q1244	K1079	K1079	L1020	T963	H894	P842	F771	Y695	V614	H502	Q399
LEU	F1245	F1245	Q1084	Q1084	L1021	L955	C894	S943	N772	P696		H502	A400
GLN			R1087	R1087	P1022	P956	P895	R844				F503	
PRO			W1088	W1088	P1023	K957	V896						
PRO			E1093	E1093	Y1024	T958	D898						
ALA			E1099	E1099	R1025	Y959	D899						
GLU			M1100	M1100	L1026	H960	N900						
GLU					L1027	H961	K901						
GLU						H963	L903						
GLU						G964	H904						

WORLDWIDE
PDB
PROTEIN DATA BANK

T3133	V3134	A3135	L3136	L3137	P3138	L3139	L3140	T3141	T3142	L3143	F3144	Q3145	H3146	L3147	A3148	Q3149	H3150	Q3151	F3152	G3153	D3154	F3155	V3156	L3157	L3158	L3159	D3160	V3161	Q3162	V3163	S3164	G3165	V3166	L3167	T3168	L3169	I3172	V3173	S3174	L3175	G3176	T3177	L3178	K3179	T3180	T3181	V3182	V3183	E3184	K3185	L3186	L3187	F3188	A3189	L3190	G3191	E3192	C3193		
R3073	S3074	L3075	D3076	A3077	R3078	T3079	V3080	M3081	K3082	S3083	G3084	P3085	E3086	I3087	V3088	K3089	A3090	G3091	L3092	R3093	S3094	F3095	F3096	E3097	S3098	L3099	S3100	E3101	D3102	I3103	F3104	K3105	K3106	V3107	E3108	N3109	L3110	R3111	L3112	G3113	K3114	V3115	S3116	GLN	ALA	ARG	THR	VAL	K3123	G3124	V3125	K3126	N3128	L3129	T3130	V3131	T3132			
H3013	C3014	L3015	Y3016	F3017	L3018	S3019	T3020	F3021	A3022	K3023	V3024	L3025	G3026	S3027	G3028	G3029	H3030	A3031	S3032	N3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042	F3043	C3044	K3045	L3046	A3047	A3048	L3049	V3050	R3051	H3052	R3053	V3054	S3055	L3056	F3057	G3058	T3059	D3060	A3061	P3062	A3063	V3064	V3065	N3066	C3067	L3068	H3069	I3070	L3071	A3072	
K2953	R2954	F2955	A2956	F2957	G2958	F2959	L2960	Q2961	Q2962	L2963	L2964	K2965	W2966	M2967	D2968	T2969	S2970	Q2971	E2972	F2973	I2974	A2975	H2976	L2977	E2978	A2979	V2980	V2981	S2982	G2983	G2984	R2985	V2986	E2987	K2988	S2989	P2990	H2991	E2992	Q2993	E2994	L2995	K2996	F2997	F2998	A2999	K3000	I3001	L3002	L3003	P3004	L3005	I3006	N3007	Q3008	Y3009	F3010	T3011	N3012	
E2893	L2894	E2895	A2896	K2897	G2898	G2899	Q2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	I2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	R2920	E2921	K2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	L3002	ASP	MET	L2946	D2947	T2948	S2949	S2950	T2951	E2952		
ARG	THR	LYS	LYS	LYS	THR	ARG	LYS	SER	GLN	THR	ALA	GLN	THR	TYR	ASP	PRO	ARG	GLY	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	G2864	V2865	T2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	W2881	H2882	H2883	W2884	T2885	G2886	G2887	R2888	K2889	K2890	T2891	T2894	S2894	S2895	T2896	E2892
D2713	Y2714	V2715	D2716	A2717	S2718	Y2719	S2720	K2721	K2722	A2723	E2724	K2725	LYS	ALA	THR	VAL	ASP	ALA	GLY	N2734	F2735	D2736	T2737	K2738	V2739	V2740	E2741	T2742	L2743	N2744	V2745	L2746	L2747	T2748	E2749	K2750	L2751	D2752	S2753	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	V2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	T2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	Y2805	R2806	W2807	P2808	L2809	K2810	E2811	S2812	L2813	K2814	A2815	W2816	K2816	L2817	A2818	W2819	E2820	W2821	H2822	T2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLY	GLU
R2650	C2651	Y2655	C2656	L2657	T2658	T2659	G2660	N2663	F2664	G2665	V2666	T2667	S2668	E2669	E2670	E2671	L2672	H2673	L2674	T2675	R2676	K2677	L2678	F2679	W2680	G2681	I2682	F2683	D2684	S2685	L2686	A2687	H2688	K2689	K2690	Y2691	Q2693	L2695	Y2696	R2697	M2698	M2699	T2700	P2701	C2702	L2703	C2704	A2705	I2706	A2707	G2708	A2709	L2710	P2711	P2712					
L2518	L2519	H2520	D2523	V2524	G2525	P2526	L2527	P2528	D2529	M2530	R2531	A2534	S2535	L2536	D2537	T2538	T2540	P2541	S2542	T2543	T2544	E2545	M2546	D2547	L2548	A2549	R2552	Y2553	L2554	C2555	H2556	L2562	T2563	K2564	C2565	L2566	P2567	F2568	P2569	A2570	Q2571	T2572	E2573	H2574	R2575	G2576	I2577	M2578	L2579	D2580	S2581	M2582	L2583	H2584						
R2452	L2453	R2454	Y2458	S2459	L2460	V2461	P2462	L2463	D2464	D2465	L2466	D2467	G2468	L2469	L2472	P2473	Q2474	Q2475	L2476	P2477	T2478	L2479	G2480	K2481	D2482	G2483	A2484	L2485	V2486	Q2487	P2488	K2489	M2490	S2491	A2492	S2493	F2494	V2495	P2496	D2497	H2498	K2499	M2502	F2505	R2508	V2509	Y2510	G2511	L2512	E2513	N2514	Q2515	L2516	F2517						
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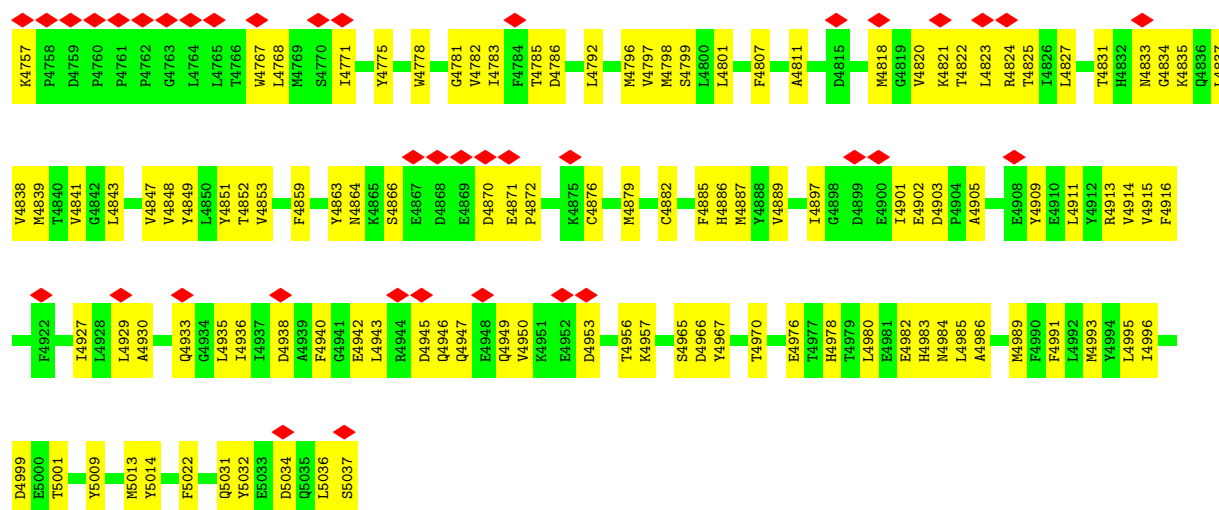
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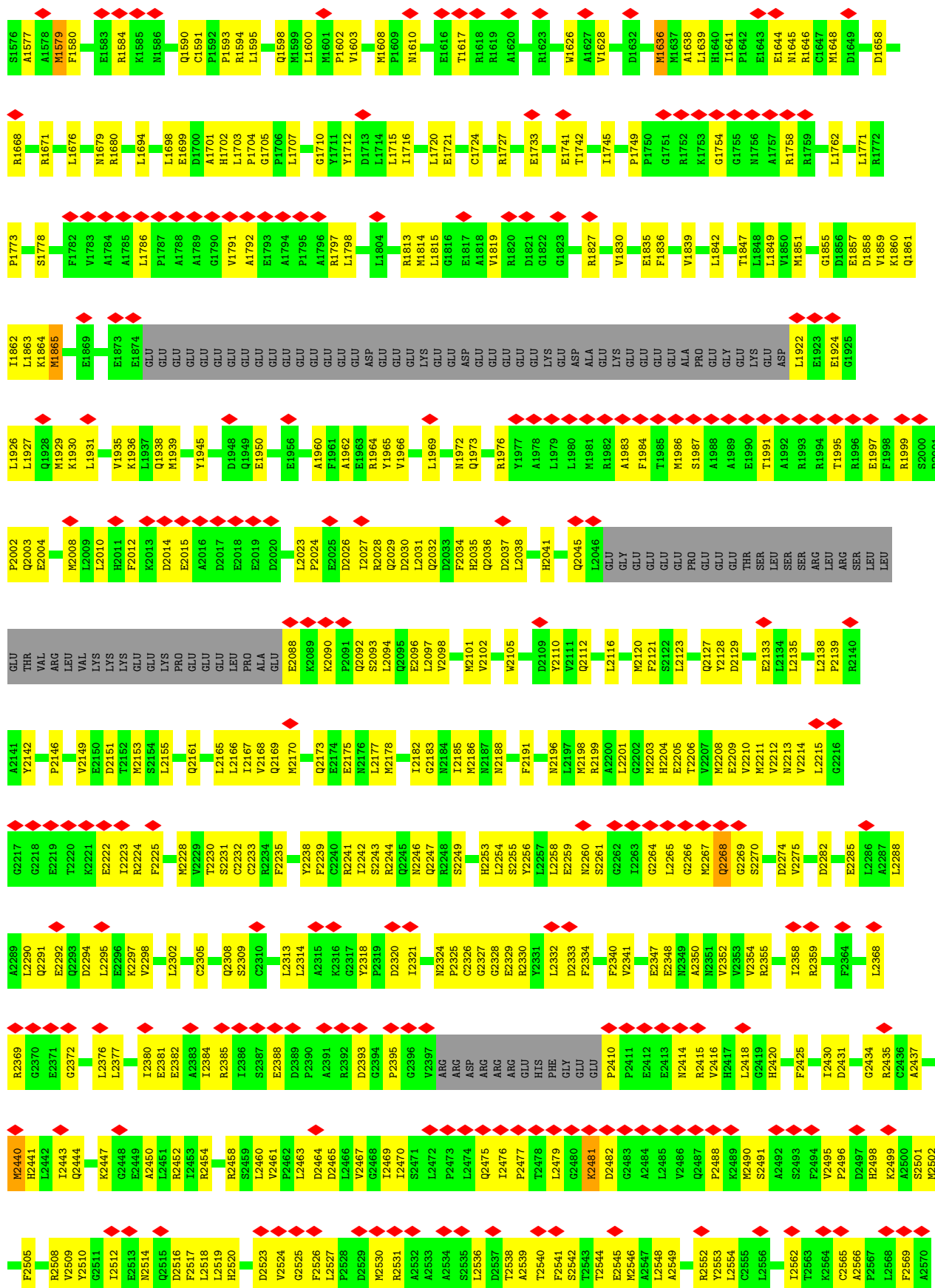


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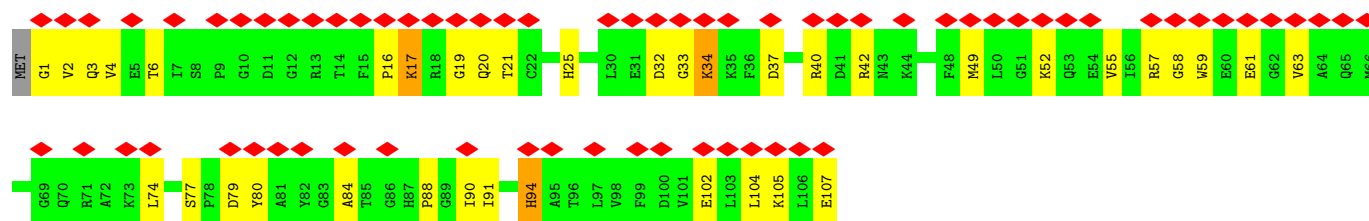




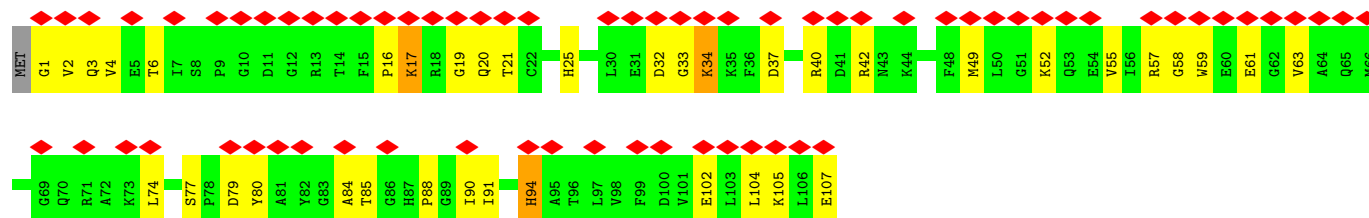


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C3304	P3244	E3184	A3063	L3003	W2883	T2823	H2763	A2705	R2575
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A3306	L3246	L3186	V3065	L3005	T2885	K2825	K2765	L2706	L2577
V3307	D3247	R3187	N3066	T3006	D2947	A2826	W2766	A2707	M2578
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S3309	L3249	N3128	L3068	Q3008	G2887	G2828	F2768	L2710	D2580
D3310	L3190	L3129	H3069	Y3009	S2950	G2829	D2769	P2711	S2581
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L3312	E3192	T3132	L3071	T3011	K2890	GLU	L2771	P2713	L2583
N3313	C3193	H3012	K2953	N3012	K2891	GLU	L2772	D2714	H2584
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A3318	A3257	L3137	G2958	L3018	K2897	THR	Y2777	G2719	L2589
E3319	E3258	P3138	F2959	S3019	G2898	ARG	G2778	Y2720	R2591
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G3321	G3260	L3140	Q2961	T3021	G2900	SER	N2780	K2722	R2593
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E3347	E3286	Y3167	M3106	L3046	L2926	L2871	L2804	L2747	L2623
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G3349	G3288	L3169	S3108	A3048	L2928	A2873	R2806	E2749	L2625
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V3351	V3290	I3172	L3110	V3050	L2929	A2875	P2808	L2751	V2627
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G3354	G3293	L3175	G3113	S3053	M2932	L2878	E2811	T2754	V2630
V3355	V3294	G3176	K3114	V3054	L2935	Q2934	S2812	T2755	P2631
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E3357	E3296	T3178	S3116	L3056	K2996	Y2937	K2814	K2757	Y2696
S3358	S3297	K3179	GLN	F3057	F2997	F2998	A2815	P2758	R2697
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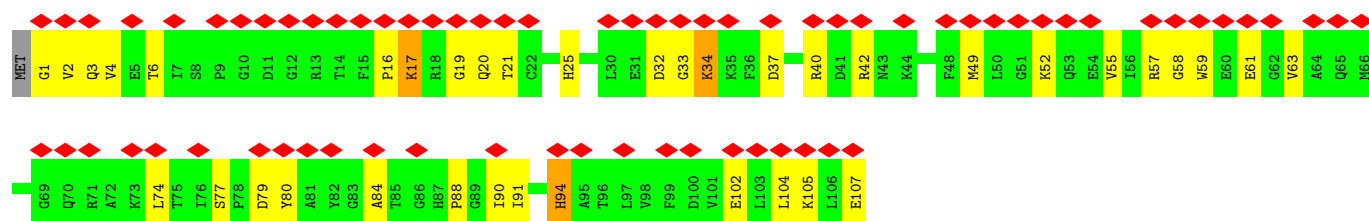
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THR	Q4209	N4124	Q4043	K3953	Q3851	GLU	K3672	Q3608	E3547	GLY	L3424	G3364
VAL	V4210	E4127	M4044	M3955	K3852	GLU	M3673	E3610	V3549	SER	T3425	L3365
ALA	F4218	E4128	V4049	S3956	E3854	GLU	A3680	H3611	R3551	ASP	E3426	R3366
GLY	F4219	A4129	S4052	V3961	G3681	GLU	G3682	P3612	R3552	GLN	P3427	K3367
THR	D4220	N4130	S4053	T3966	E3682	THR	Y3613	F3612	F3552	ARG	N3428	R3368
ALA	V4221	R4131	M4054	Q3970	Q3683	ALA	K3614	K3614	L3553	THR	A3429	A3369
LEU	N4223	E4134	V4055	Q3970	E3684	ALA	S3615	S3615	Q3554	LYS	N3430	G3370
ALA	E4224	P4135	E4057	G3971	E3685	ALA	K3616	K3616	N3555	LYS	A3431	K3371
ALA	G4225	A4136	M4057	P3972	E3686	ALA	K3617	K3617	N3556	LYS	E3432	V3372
ALA	G4226	R4137	K4060	C3973	E3687	ALA	A3618	A3618	L3557	ALA	E3433	V3373
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ARG	A4228	N4142	M4064	L3981	E3689	ALA	H3621	H3621	L3559	ALA	F3435	A3375
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SER	D4240	E4153	L4068	W3987	E3694	ALA	F3695	L3624	V3563	ALA	E3440	R3380
ARG	T4241	H4156	D4070	A3988	E3695	ALA	M3696	K3626	E3564	ALA	I3441	R3381
ARG	I4242	H4157	D4071	V3989	E3696	ALA	F3697	Q3627	G3565	ALA	F3442	E3382
LEU	M4245	D4157	F4077	V3990	E3697	ALA	G3698	R3628	S3566	ALA	Y3444	A3383
ARG	E4253	P4158	Q4078	G3991	E3698	ALA	H3699	R3629	P3567	ALA	K3447	K3384
GLY	P4254	R4159	D4079	F3992	E3699	ALA	L3701	R3630	S3568	ALA	S3448	A3385
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ARG	PRO	L4161	T4082	M4000	E3701	ALA	L3703	A3631	R3570	ALA	N3450	A3387
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THR	GLU	L4164	R4085	L4003	E3704	ALA	T3708	A3634	A3574	ALA	R3453	G3390
ALA	GLU	L4165	C4086	L4004	E3705	ALA	S3714	C3635	L3575	ALA	Q3456	E3391
THR	ASP	L4166	S4087	S4007	E3706	ALA	K3715	F3636	Y3576	ALA	N3457	L3392
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ALA	GLU	L4178	L4016	L4016	E3713	ALA	Y3725	P3645	E3584	ALA	I3464	S3399
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VAL	GLU	E4191	Q4109	L4027	E3719	ALA	C3733	M3652	E3590	ALA	T3471	Y3406
VAL	GLY	Y4194	L4112	L4028	E3720	ALA	H3734	F3653	E3591	ALA	A3472	A3407
ALA	ALA				E3721	ALA	L3735	L3654	L3592	ALA	D3473	L3408
					E3722	ALA	E3736	K3657	L3593	ALA	L3474	Y3409
					E3723	ALA	GLY	Y3657	V3594	ALA	S3475	P3410
					E3724	ALA	GLY	K3658	R3595	ALA	K3476	L3411
					E3725	ALA	GLY	A3659	R3596	ALA	K3477	L3412
					E3726	ALA	GLY	W3661	Q3597	ALA	M3478	T3413
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					E3728	ALA	GLY	E3665	V3599	ALA	L3542	Y3415
					E3729	ALA	GLY		V3602	ALA	D3417	Y3416
					E3730	ALA	GLY		L3603	ALA	N3418	N3419



- 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	113183	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.268	Depositor
Minimum map value	-0.112	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ATP, ZN, CA, A1BD2

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	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
1	B	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
1	C	0.21	1/35977 (0.0%)	0.47	26/48726 (0.1%)
1	D	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
2	E	0.32	0/850	0.81	6/1146 (0.5%)
2	F	0.32	0/850	0.81	6/1146 (0.5%)
2	G	0.32	0/850	0.81	6/1146 (0.5%)
2	H	0.32	0/850	0.81	6/1146 (0.5%)
All	All	0.22	4/147308 (0.0%)	0.48	131/199488 (0.1%)

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	6
1	B	0	6
1	C	0	6
1	D	0	6
All	All	0	24

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2440	MET	SD-CE	5.18	1.92	1.79
1	C	2440	MET	SD-CE	5.18	1.92	1.79
1	A	2440	MET	SD-CE	5.17	1.92	1.79
1	D	2440	MET	SD-CE	5.17	1.92	1.79

All (131) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3622	LYS	CB-CG-CD	14.01	143.52	111.30
1	B	3622	LYS	CB-CG-CD	14.00	143.51	111.30
1	C	3622	LYS	CB-CG-CD	14.00	143.51	111.30
1	D	3622	LYS	CB-CG-CD	13.98	143.46	111.30
1	A	3622	LYS	CG-CD-CE	13.35	142.01	111.30
1	B	3622	LYS	CG-CD-CE	13.34	141.98	111.30
1	C	3622	LYS	CG-CD-CE	13.34	141.98	111.30
1	D	3622	LYS	CG-CD-CE	13.33	141.97	111.30
2	E	105	LYS	CD-CE-NZ	-9.84	80.40	111.90
2	F	105	LYS	CD-CE-NZ	-9.84	80.42	111.90
2	G	105	LYS	CD-CE-NZ	-9.83	80.44	111.90
2	H	105	LYS	CD-CE-NZ	-9.82	80.47	111.90
2	F	34	LYS	CD-CE-NZ	9.40	141.97	111.90
2	G	34	LYS	CD-CE-NZ	9.39	141.96	111.90
2	H	34	LYS	CD-CE-NZ	9.39	141.95	111.90
2	E	34	LYS	CD-CE-NZ	9.38	141.93	111.90
1	D	960	MET	CB-CG-SD	8.76	138.99	112.70
1	A	960	MET	CB-CG-SD	8.76	138.98	112.70
1	C	960	MET	CB-CG-SD	8.76	138.98	112.70
1	B	960	MET	CB-CG-SD	8.75	138.96	112.70
2	F	17	LYS	CB-CG-CD	8.54	130.95	111.30
2	G	17	LYS	CB-CG-CD	8.54	130.94	111.30
2	H	17	LYS	CB-CG-CD	8.53	130.93	111.30
2	E	17	LYS	CB-CG-CD	8.53	130.91	111.30
1	D	960	MET	CA-CB-CG	7.78	129.66	114.10
1	B	960	MET	CA-CB-CG	7.77	129.64	114.10
1	A	960	MET	CA-CB-CG	7.75	129.61	114.10
1	C	960	MET	CA-CB-CG	7.75	129.59	114.10
2	E	17	LYS	CG-CD-CE	7.21	127.88	111.30
2	H	17	LYS	CG-CD-CE	7.21	127.88	111.30
2	G	17	LYS	CG-CD-CE	7.20	127.87	111.30
2	F	17	LYS	CG-CD-CE	7.18	127.83	111.30
2	G	105	LYS	CG-CD-CE	7.03	127.47	111.30
2	H	105	LYS	CG-CD-CE	7.03	127.46	111.30
2	E	105	LYS	CG-CD-CE	7.02	127.45	111.30
2	F	105	LYS	CG-CD-CE	7.02	127.44	111.30
1	A	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	B	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	C	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	D	3856	LEU	CB-CG-CD2	6.95	131.56	110.70
1	D	2440	MET	N-CA-C	-6.84	104.41	112.89
1	C	2440	MET	N-CA-C	-6.83	104.43	112.89
1	A	2440	MET	N-CA-C	-6.81	104.44	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2440	MET	N-CA-C	-6.79	104.46	112.89
1	A	4723	LYS	CD-CE-NZ	6.67	133.23	111.90
1	C	4723	LYS	CD-CE-NZ	6.67	133.24	111.90
1	D	4723	LYS	CD-CE-NZ	6.66	133.22	111.90
1	B	4723	LYS	CD-CE-NZ	6.65	133.18	111.90
1	B	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	D	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	C	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	A	3622	LYS	CD-CE-NZ	-6.26	91.87	111.90
1	C	3437	MET	CB-CG-SD	6.25	131.46	112.70
1	B	3437	MET	CB-CG-SD	6.25	131.45	112.70
1	A	3437	MET	CB-CG-SD	6.24	131.42	112.70
1	D	3437	MET	CB-CG-SD	6.23	131.39	112.70
1	D	4161	ARG	CG-CD-NE	6.16	125.54	112.00
1	C	4161	ARG	CG-CD-NE	6.16	125.54	112.00
2	F	34	LYS	CG-CD-CE	6.15	125.44	111.30
2	G	34	LYS	CG-CD-CE	6.14	125.42	111.30
2	E	34	LYS	CG-CD-CE	6.14	125.42	111.30
1	A	4161	ARG	CG-CD-NE	6.13	125.49	112.00
2	H	34	LYS	CG-CD-CE	6.13	125.40	111.30
1	B	4161	ARG	CG-CD-NE	6.12	125.48	112.00
1	B	236	ALA	CA-C-N	6.03	132.01	122.61
1	B	236	ALA	C-N-CA	6.03	132.01	122.61
1	C	236	ALA	CA-C-N	6.02	132.00	122.61
1	C	236	ALA	C-N-CA	6.02	132.00	122.61
1	D	236	ALA	CA-C-N	5.97	131.92	122.61
1	D	236	ALA	C-N-CA	5.97	131.92	122.61
1	D	3856	LEU	CB-CG-CD1	-5.70	93.62	110.70
1	B	3856	LEU	CB-CG-CD1	-5.69	93.62	110.70
1	A	3856	LEU	CB-CG-CD1	-5.69	93.64	110.70
1	C	3856	LEU	CB-CG-CD1	-5.68	93.66	110.70
1	A	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	D	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	C	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	B	3793	MET	CB-CG-SD	-5.62	95.85	112.70
1	D	1579	MET	N-CA-CB	-5.59	101.85	110.13
1	A	1579	MET	N-CA-CB	-5.56	101.90	110.13
1	C	1579	MET	N-CA-CB	-5.56	101.90	110.13
1	D	1636	MET	CB-CG-SD	5.56	129.37	112.70
1	A	1636	MET	CB-CG-SD	5.55	129.35	112.70
1	C	1636	MET	CB-CG-SD	5.54	129.33	112.70
1	B	1636	MET	CB-CG-SD	5.54	129.31	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1579	MET	N-CA-CB	-5.54	101.94	110.13
1	B	960	MET	CA-C-N	5.51	131.38	122.29
1	B	960	MET	C-N-CA	5.51	131.38	122.29
1	C	960	MET	CA-C-N	5.51	131.38	122.29
1	C	960	MET	C-N-CA	5.51	131.38	122.29
1	A	960	MET	CA-C-N	5.49	131.35	122.29
1	A	960	MET	C-N-CA	5.49	131.35	122.29
1	D	960	MET	CA-C-N	5.47	131.31	122.29
1	D	960	MET	C-N-CA	5.47	131.31	122.29
1	A	236	ALA	CA-C-N	5.46	131.96	121.54
1	A	236	ALA	C-N-CA	5.46	131.96	121.54
1	C	3856	LEU	CD1-CG-CD2	-5.35	99.03	110.80
1	D	4057	MET	CB-CG-SD	5.35	128.74	112.70
1	D	3856	LEU	CD1-CG-CD2	-5.34	99.05	110.80
1	A	3856	LEU	CD1-CG-CD2	-5.34	99.06	110.80
1	A	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	B	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	C	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	D	2440	MET	CB-CG-SD	-5.33	96.71	112.70
1	A	2440	MET	CB-CG-SD	-5.32	96.75	112.70
1	B	3856	LEU	CD1-CG-CD2	-5.32	99.11	110.80
1	B	2440	MET	CB-CG-SD	-5.31	96.76	112.70
1	C	2440	MET	CB-CG-SD	-5.31	96.76	112.70
1	B	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	C	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	A	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	D	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	D	2481	LYS	CA-C-N	5.17	130.19	122.74
1	D	2481	LYS	C-N-CA	5.17	130.19	122.74
1	C	2481	LYS	CA-C-N	5.16	130.18	122.74
1	C	2481	LYS	C-N-CA	5.16	130.18	122.74
1	A	2481	LYS	CA-C-N	5.14	130.14	122.74
1	A	2481	LYS	C-N-CA	5.14	130.14	122.74
1	B	2481	LYS	CA-C-N	5.14	130.14	122.74
1	B	2481	LYS	C-N-CA	5.14	130.14	122.74
1	A	4156	HIS	CA-C-N	5.05	130.10	122.42
1	A	4156	HIS	C-N-CA	5.05	130.10	122.42
1	D	4156	HIS	CA-C-N	5.03	130.07	122.42
1	D	4156	HIS	C-N-CA	5.03	130.07	122.42
1	C	4156	HIS	CA-C-N	5.03	130.07	122.42
1	C	4156	HIS	C-N-CA	5.03	130.07	122.42
1	B	4156	HIS	CA-C-N	5.03	130.07	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4156	HIS	C-N-CA	5.03	130.07	122.42
1	B	2816	MET	CG-SD-CE	-5.01	89.88	100.90
1	A	2816	MET	CG-SD-CE	-5.00	89.90	100.90
1	D	2816	MET	CG-SD-CE	-5.00	89.90	100.90

There are no chirality outliers.

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1025	ARG	Sidechain
1	A	2702	CYS	Peptide
1	A	3196	ARG	Sidechain
1	A	3366	ARG	Sidechain
1	A	3436	ARG	Sidechain
1	A	3637	ARG	Sidechain
1	B	1025	ARG	Sidechain
1	B	2702	CYS	Peptide
1	B	3196	ARG	Sidechain
1	B	3366	ARG	Sidechain
1	B	3436	ARG	Sidechain
1	B	3637	ARG	Sidechain
1	C	1025	ARG	Sidechain
1	C	2702	CYS	Peptide
1	C	3196	ARG	Sidechain
1	C	3366	ARG	Sidechain
1	C	3436	ARG	Sidechain
1	C	3637	ARG	Sidechain
1	D	1025	ARG	Sidechain
1	D	2702	CYS	Peptide
1	D	3196	ARG	Sidechain
1	D	3366	ARG	Sidechain
1	D	3436	ARG	Sidechain
1	D	3637	ARG	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34795	1578	0
1	B	35150	0	34795	1574	0
1	C	35150	0	34795	1594	0
1	D	35150	0	34795	1595	0
2	E	831	0	831	45	0
2	F	831	0	831	43	0
2	G	831	0	831	44	0
2	H	831	0	831	43	0
3	A	31	0	12	0	0
3	B	31	0	12	0	0
3	C	31	0	12	0	0
3	D	31	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	3	0
6	B	18	0	0	3	0
6	C	18	0	0	3	0
6	D	18	0	0	3	0
All	All	144128	0	142552	6434	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 (6434) 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:D:3365:LEU:HD11	1:D:3405:LEU:HD23	1.43	1.00
1:B:899:ASP:OD1	1:B:902:ARG:NH2	1.95	0.99
1:B:3308:THR:OG1	1:B:3310:ASP:OD1	1.80	0.99
1:A:899:ASP:OD1	1:A:902:ARG:NH2	1.95	0.99
1:C:899:ASP:OD1	1:C:902:ARG:NH2	1.95	0.99
1:D:3308:THR:OG1	1:D:3310:ASP:OD1	1.80	0.98
1:C:4949:GLN:NE2	1:C:4953:ASP:OD2	1.97	0.98
1:D:899:ASP:OD1	1:D:902:ARG:NH2	1.95	0.98
1:A:3308:THR:OG1	1:A:3310:ASP:OD1	1.80	0.98
1:B:3365:LEU:HD11	1:B:3405:LEU:HD23	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3365:LEU:HD11	1:A:3405:LEU:HD23	1.43	0.97
1:D:4949:GLN:NE2	1:D:4953:ASP:OD2	1.97	0.97
1:C:3308:THR:OG1	1:C:3310:ASP:OD1	1.80	0.97
1:A:4949:GLN:NE2	1:A:4953:ASP:OD2	1.97	0.97
1:B:4949:GLN:NE2	1:B:4953:ASP:OD2	1.97	0.97
1:D:886:ARG:NH1	1:D:889:GLN:OE1	1.98	0.97
1:C:2035:HIS:HD1	1:C:3657:TYR:HH	1.08	0.97
1:C:2393:ASP:OD2	1:C:2415:ARG:NH1	1.98	0.97
1:C:3365:LEU:HD11	1:C:3405:LEU:HD23	1.43	0.96
1:B:886:ARG:NH1	1:B:889:GLN:OE1	1.98	0.96
1:B:2393:ASP:OD2	1:B:2415:ARG:NH1	1.98	0.96
1:C:886:ARG:NH1	1:C:889:GLN:OE1	1.98	0.96
1:A:2393:ASP:OD2	1:A:2415:ARG:NH1	1.98	0.96
1:C:2752:ASP:OD1	1:C:2810:LYS:NZ	1.99	0.96
1:A:2752:ASP:OD1	1:A:2810:LYS:NZ	1.99	0.95
1:D:2393:ASP:OD2	1:D:2415:ARG:NH1	1.98	0.95
1:A:886:ARG:NH1	1:A:889:GLN:OE1	1.98	0.95
1:A:221:ARG:NH1	1:A:253:CYS:O	2.00	0.95
1:D:221:ARG:NH1	1:D:253:CYS:O	2.00	0.95
1:D:4176:PRO:O	1:D:4202:ARG:NH2	2.00	0.95
1:A:4176:PRO:O	1:A:4202:ARG:NH2	2.00	0.95
1:B:2752:ASP:OD1	1:B:2810:LYS:NZ	1.99	0.95
1:B:4176:PRO:O	1:B:4202:ARG:NH2	2.00	0.94
1:C:221:ARG:NH1	1:C:253:CYS:O	2.00	0.94
1:B:2702:CYS:SG	1:B:2704:CYS:N	2.41	0.94
1:A:2309:SER:OG	1:A:2321:ILE:O	1.86	0.94
1:B:221:ARG:NH1	1:B:253:CYS:O	2.00	0.94
1:C:4176:PRO:O	1:C:4202:ARG:NH2	2.00	0.94
1:D:2702:CYS:SG	1:D:2704:CYS:N	2.41	0.94
1:D:2752:ASP:OD1	1:D:2810:LYS:NZ	1.99	0.93
1:A:2702:CYS:SG	1:A:2704:CYS:N	2.41	0.93
1:D:2035:HIS:HD1	1:D:3657:TYR:HH	1.14	0.93
1:D:5036:LEU:O	1:D:5037:SER:OG	1.87	0.93
1:C:2309:SER:OG	1:C:2321:ILE:O	1.86	0.93
1:C:2702:CYS:SG	1:C:2704:CYS:N	2.41	0.93
1:B:5036:LEU:O	1:B:5037:SER:OG	1.87	0.93
1:D:2582:MET:HE1	1:D:2610:LEU:HD13	1.51	0.92
1:B:2582:MET:HE1	1:B:2610:LEU:HD13	1.51	0.92
1:D:2309:SER:OG	1:D:2321:ILE:O	1.86	0.92
1:B:2309:SER:OG	1:B:2321:ILE:O	1.86	0.92
1:C:3181:THR:HG22	1:C:3185:LYS:HZ3	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5036:LEU:O	1:C:5037:SER:OG	1.87	0.91
1:D:2230:THR:OG1	1:D:2268[B]:GLN:OE1	1.87	0.91
1:C:1156:THR:OG1	1:C:1157:GLU:OE1	1.89	0.91
1:A:5036:LEU:O	1:A:5037:SER:OG	1.87	0.91
1:B:2230:THR:OG1	1:B:2268[B]:GLN:OE1	1.87	0.91
1:C:1454:THR:OG1	1:C:1456:ASP:OD1	1.89	0.91
1:B:3181:THR:HG22	1:B:3185:LYS:HZ3	1.34	0.91
1:C:2230:THR:OG1	1:C:2268[B]:GLN:OE1	1.87	0.91
1:A:3052:HIS:NE2	1:A:3128:ASN:OD1	2.04	0.91
1:D:1454:THR:OG1	1:D:1456:ASP:OD1	1.89	0.90
1:C:3141:THR:HG1	1:C:3193:CYS:HG	1.12	0.90
1:A:177:GLU:O	1:D:2359:ARG:NH2	2.04	0.90
1:B:3052:HIS:NE2	1:B:3128:ASN:OD1	2.04	0.90
1:A:2230:THR:OG1	1:A:2268[B]:GLN:OE1	1.87	0.90
1:B:1454:THR:OG1	1:B:1456:ASP:OD1	1.89	0.90
1:C:2582:MET:HE1	1:C:2610:LEU:HD13	1.51	0.90
1:D:3181:THR:HG22	1:D:3185:LYS:HZ3	1.34	0.90
1:B:1156:THR:OG1	1:B:1157:GLU:OE1	1.89	0.90
1:D:1156:THR:OG1	1:D:1157:GLU:OE1	1.89	0.90
1:A:1454:THR:OG1	1:A:1456:ASP:OD1	1.89	0.90
1:A:1156:THR:OG1	1:A:1157:GLU:OE1	1.89	0.89
1:D:3052:HIS:NE2	1:D:3128:ASN:OD1	2.04	0.89
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.05	0.89
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.05	0.89
1:C:728:ARG:NH2	1:C:1489:CYS:SG	2.46	0.89
1:D:728:ARG:NH2	1:D:1489:CYS:SG	2.46	0.89
1:C:3052:HIS:NE2	1:C:3128:ASN:OD1	2.05	0.89
1:A:2230:THR:OG1	1:A:2268[A]:GLN:OE1	1.91	0.89
1:A:3181:THR:HG22	1:A:3185:LYS:HZ3	1.38	0.89
1:A:495:ASN:OD1	1:A:553:ARG:NH1	2.06	0.88
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.05	0.88
1:A:2582:MET:HE1	1:A:2610:LEU:HD13	1.51	0.88
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.46	0.88
1:A:266:ARG:NH1	1:A:268:SER:O	2.07	0.88
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.05	0.88
1:B:495:ASN:OD1	1:B:553:ARG:NH1	2.06	0.88
1:D:266:ARG:NH1	1:D:268:SER:O	2.07	0.88
1:C:495:ASN:OD1	1:C:553:ARG:NH1	2.06	0.88
1:D:495:ASN:OD1	1:D:553:ARG:NH1	2.06	0.88
1:C:2230:THR:OG1	1:C:2268[A]:GLN:OE1	1.91	0.88
1:B:1987:SER:O	1:B:1991:THR:OG1	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2230:THR:OG1	1:B:2268[A]:GLN:OE1	1.91	0.88
1:D:1987:SER:O	1:D:1991:THR:OG1	1.91	0.88
1:C:266:ARG:NH1	1:C:268:SER:O	2.07	0.88
1:C:1987:SER:O	1:C:1991:THR:OG1	1.91	0.88
1:D:1252:HIS:O	1:D:1275:ARG:NH2	2.07	0.87
1:A:2359:ARG:NH2	1:B:177:GLU:O	2.08	0.87
1:B:1252:HIS:O	1:B:1275:ARG:NH2	2.07	0.87
1:A:728:ARG:NH2	1:A:1489:CYS:SG	2.46	0.87
1:D:177:GLU:O	1:C:2359:ARG:NH2	2.06	0.87
1:C:2725:LYS:NZ	1:C:2734:ASN:O	2.08	0.87
1:D:2230:THR:OG1	1:D:2268[A]:GLN:OE1	1.91	0.87
1:B:2668:SER:OG	1:B:2671:GLU:OE1	1.93	0.87
1:C:1252:HIS:O	1:C:1275:ARG:NH2	2.07	0.87
1:A:1112:ASP:OD1	1:A:1113:VAL:N	2.08	0.87
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.08	0.87
1:D:1112:ASP:OD1	1:D:1113:VAL:N	2.08	0.87
1:D:3181:THR:HG22	1:D:3185:LYS:NZ	1.90	0.87
1:A:1987:SER:O	1:A:1991:THR:OG1	1.91	0.86
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.08	0.86
1:B:266:ARG:NH1	1:B:268:SER:O	2.07	0.86
1:B:2359:ARG:NH2	1:C:177:GLU:O	2.07	0.86
1:A:3868:ARG:NH1	1:A:3870:ASN:OD1	2.08	0.86
1:A:2035:HIS:HD1	1:A:3657:TYR:HH	1.23	0.86
1:B:3141:THR:OG1	1:B:3193:CYS:SG	2.32	0.86
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.08	0.86
1:C:2668:SER:OG	1:C:2671:GLU:OE1	1.93	0.86
1:C:3181:THR:HG22	1:C:3185:LYS:NZ	1.90	0.86
1:B:3181:THR:HG22	1:B:3185:LYS:NZ	1.90	0.86
1:B:3868:ARG:NH1	1:B:3870:ASN:OD1	2.08	0.86
1:A:3181:THR:HG22	1:A:3185:LYS:NZ	1.90	0.86
1:C:3868:ARG:NH1	1:C:3870:ASN:OD1	2.08	0.86
1:B:2725:LYS:NZ	1:B:2734:ASN:O	2.08	0.85
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.08	0.85
1:C:3777:GLU:O	1:C:3781:GLN:NE2	2.09	0.85
1:A:1252:HIS:O	1:A:1275:ARG:NH2	2.07	0.85
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.09	0.85
1:D:2725:LYS:NZ	1:D:2734:ASN:O	2.08	0.85
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.09	0.85
1:A:3777:GLU:O	1:A:3781:GLN:NE2	2.09	0.85
1:D:3868:ARG:NH1	1:D:3870:ASN:OD1	2.08	0.85
1:A:3141:THR:HG1	1:A:3193:CYS:HG	1.18	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2035:HIS:HD1	1:B:3657:TYR:HH	1.22	0.85
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.09	0.85
1:D:2461:VAL:O	1:D:2510:TYR:OH	1.94	0.85
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.09	0.85
1:B:1112:ASP:OD1	1:B:1113:VAL:N	2.08	0.85
1:D:3777:GLU:O	1:D:3781:GLN:NE2	2.09	0.85
1:A:2668:SER:OG	1:A:2671:GLU:OE1	1.93	0.85
1:A:2725:LYS:NZ	1:A:2734:ASN:O	2.08	0.85
1:C:1112:ASP:OD1	1:C:1113:VAL:N	2.08	0.85
1:A:2461:VAL:O	1:A:2510:TYR:OH	1.94	0.84
1:D:2526:PHE:HB3	1:D:2530:MET:HE1	1.60	0.84
1:C:3141:THR:OG1	1:C:3193:CYS:SG	2.32	0.84
1:B:3154:ASP:OD1	1:B:3283:ARG:NH2	2.11	0.84
1:B:3777:GLU:O	1:B:3781:GLN:NE2	2.09	0.84
1:C:2461:VAL:O	1:C:2510:TYR:OH	1.94	0.84
1:A:1027:LEU:O	1:A:1032:LYS:NZ	2.11	0.84
1:B:2461:VAL:O	1:B:2510:TYR:OH	1.94	0.84
1:B:3566:SER:HG	1:B:3568:SER:HG	0.87	0.84
1:D:2668:SER:OG	1:D:2671:GLU:OE1	1.93	0.84
1:C:4069:LYS:NZ	1:C:4130:ASN:OD1	2.11	0.84
1:B:2592:GLY:O	1:B:2600:ARG:NH2	2.11	0.84
1:B:2897:LYS:NZ	1:B:2899:GLY:O	2.10	0.84
1:D:769:GLU:OE2	1:D:1475:THR:OG1	1.94	0.84
1:C:2526:PHE:HB3	1:C:2530:MET:HE1	1.60	0.84
1:C:2592:GLY:O	1:C:2600:ARG:NH2	2.11	0.84
1:A:2897:LYS:NZ	1:A:2899:GLY:O	2.10	0.84
1:A:3154:ASP:OD1	1:A:3283:ARG:NH2	2.11	0.84
1:D:2592:GLY:O	1:D:2600:ARG:NH2	2.11	0.84
1:A:2592:GLY:O	1:A:2600:ARG:NH2	2.11	0.84
1:A:4069:LYS:NZ	1:A:4130:ASN:OD1	2.11	0.84
1:B:3141:THR:HG1	1:B:3193:CYS:HG	1.19	0.84
1:D:221:ARG:NH2	1:D:397:GLU:OE2	2.11	0.84
1:A:221:ARG:NH2	1:A:397:GLU:OE2	2.11	0.84
1:A:1207:ASP:OD2	1:A:1209:SER:OG	1.95	0.84
1:D:2897:LYS:NZ	1:D:2899:GLY:O	2.10	0.84
1:D:4069:LYS:NZ	1:D:4130:ASN:OD1	2.11	0.84
1:C:769:GLU:OE2	1:C:1475:THR:OG1	1.94	0.84
1:C:2897:LYS:NZ	1:C:2899:GLY:O	2.10	0.84
1:B:1027:LEU:O	1:B:1032:LYS:NZ	2.11	0.83
1:D:3141:THR:OG1	1:D:3193:CYS:SG	2.32	0.83
1:B:4069:LYS:NZ	1:B:4130:ASN:OD1	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1207:ASP:OD2	1:D:1209:SER:OG	1.96	0.83
1:C:1027:LEU:O	1:C:1032:LYS:NZ	2.11	0.83
1:C:1207:ASP:OD2	1:C:1209:SER:OG	1.95	0.83
1:B:3048:ALA:O	1:B:3053:ARG:NH2	2.11	0.83
1:A:769:GLU:OE2	1:A:1475:THR:OG1	1.94	0.83
1:B:1207:ASP:OD2	1:B:1209:SER:OG	1.95	0.83
1:D:1027:LEU:O	1:D:1032:LYS:NZ	2.11	0.83
1:B:3588:ASP:OD2	1:B:3591:LYS:NZ	2.12	0.83
1:C:2308:GLN:O	1:C:2324:ASN:N	2.11	0.83
1:C:3048:ALA:O	1:C:3053:ARG:NH2	2.11	0.83
1:D:2308:GLN:O	1:D:2324:ASN:N	2.11	0.83
1:B:769:GLU:OE2	1:B:1475:THR:OG1	1.94	0.83
1:B:2308:GLN:O	1:B:2324:ASN:N	2.11	0.83
1:A:1422:ASP:OD2	1:A:1568:LYS:NZ	2.12	0.83
1:A:3588:ASP:OD2	1:A:3591:LYS:NZ	2.12	0.83
1:C:221:ARG:NH2	1:C:397:GLU:OE2	2.11	0.83
1:A:2308:GLN:O	1:A:2324:ASN:N	2.11	0.82
1:A:3141:THR:OG1	1:A:3193:CYS:SG	2.32	0.82
1:A:3566:SER:HG	1:A:3568:SER:HG	0.85	0.82
1:D:1422:ASP:OD2	1:D:1568:LYS:NZ	2.12	0.82
1:D:3048:ALA:O	1:D:3053:ARG:NH2	2.11	0.82
1:D:3154:ASP:OD1	1:D:3283:ARG:NH2	2.11	0.82
1:C:3588:ASP:OD2	1:C:3591:LYS:NZ	2.12	0.82
1:A:2526:PHE:HB3	1:A:2530:MET:HE1	1.60	0.82
1:B:2526:PHE:HB3	1:B:2530:MET:HE1	1.60	0.82
1:C:3154:ASP:OD1	1:C:3283:ARG:NH2	2.11	0.82
1:A:112:ALA:O	1:A:115:ARG:NH1	2.13	0.82
1:A:3048:ALA:O	1:A:3053:ARG:NH2	2.11	0.82
1:D:112:ALA:O	1:D:115:ARG:NH1	2.13	0.82
1:B:3262:ARG:NH1	1:B:3325:ASN:O	2.13	0.82
1:D:28:VAL:HG23	1:D:29:LEU:HD23	1.62	0.82
1:C:3262:ARG:NH1	1:C:3325:ASN:O	2.13	0.82
1:B:3539:ARG:NH2	1:B:3548:GLU:OE2	2.13	0.82
1:A:3262:ARG:NH1	1:A:3325:ASN:O	2.13	0.82
1:A:3539:ARG:NH2	1:A:3548:GLU:OE2	2.13	0.81
1:B:221:ARG:NH2	1:B:397:GLU:OE2	2.11	0.81
1:A:4991:PHE:O	1:A:4995:LEU:HD12	1.80	0.81
1:B:1422:ASP:OD2	1:B:1568:LYS:NZ	2.12	0.81
1:B:112:ALA:O	1:B:115:ARG:NH1	2.13	0.81
1:C:28:VAL:HG23	1:C:29:LEU:HD23	1.62	0.81
1:B:2582:MET:CE	1:B:2610:LEU:HD13	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:ALA:O	1:C:115:ARG:NH1	2.13	0.81
1:B:3210:LEU:HD13	1:B:3304:CYS:O	1.80	0.81
1:B:4991:PHE:O	1:B:4995:LEU:HD12	1.80	0.81
1:D:3210:LEU:HD13	1:D:3304:CYS:O	1.80	0.81
1:C:4991:PHE:O	1:C:4995:LEU:HD12	1.80	0.81
1:B:2093:SER:OG	1:B:2096:GLU:OE1	1.99	0.81
1:D:2859:PRO:HB3	1:D:2932:MET:SD	2.21	0.81
1:C:2859:PRO:HB3	1:C:2932:MET:SD	2.21	0.81
1:A:2582:MET:CE	1:A:2610:LEU:HD13	2.11	0.81
1:D:3539:ARG:NH2	1:D:3548:GLU:OE2	2.13	0.81
1:C:1422:ASP:OD2	1:C:1568:LYS:NZ	2.12	0.81
1:C:3210:LEU:HD13	1:C:3304:CYS:O	1.80	0.81
1:A:28:VAL:HG23	1:A:29:LEU:HD23	1.62	0.81
1:C:3539:ARG:NH2	1:C:3548:GLU:OE2	2.13	0.81
1:D:2974:ILE:HD13	1:D:3049:LEU:HD12	1.63	0.80
1:D:3262:ARG:NH1	1:D:3325:ASN:O	2.13	0.80
1:D:3588:ASP:OD2	1:D:3591:LYS:NZ	2.12	0.80
1:A:5014:TYR:OH	6:A:5304:A1BD2:O2	2.00	0.80
1:B:2974:ILE:HD13	1:B:3049:LEU:HD12	1.63	0.80
1:C:2582:MET:CE	1:C:2610:LEU:HD13	2.11	0.80
1:A:3210:LEU:HD13	1:A:3304:CYS:O	1.80	0.80
1:B:2030:ASP:OD1	1:B:2031:LEU:N	2.15	0.80
1:C:3235:SER:OG	1:C:3237:GLU:OE1	1.99	0.80
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.64	0.80
1:D:2582:MET:CE	1:D:2610:LEU:HD13	2.11	0.80
1:D:3235:SER:OG	1:D:3237:GLU:OE1	1.99	0.80
1:A:2030:ASP:OD1	1:A:2031:LEU:N	2.15	0.80
1:A:2093:SER:OG	1:A:2096:GLU:OE1	1.99	0.80
1:A:2859:PRO:HB3	1:A:2932:MET:SD	2.21	0.80
1:A:2410:PRO:HG3	1:A:2415:ARG:HB2	1.64	0.80
1:B:173:SER:HG	1:B:176:SER:HG	0.80	0.80
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.64	0.80
1:D:2030:ASP:OD1	1:D:2031:LEU:N	2.15	0.80
1:C:2684:ASP:OD1	1:C:2685:SER:N	2.15	0.80
1:A:2974:ILE:HD13	1:A:3049:LEU:HD12	1.63	0.79
1:D:4991:PHE:O	1:D:4995:LEU:HD12	1.80	0.79
1:A:2684:ASP:OD1	1:A:2685:SER:N	2.15	0.79
1:B:2684:ASP:OD1	1:B:2685:SER:N	2.15	0.79
1:B:2859:PRO:HB3	1:B:2932:MET:SD	2.21	0.79
1:D:2410:PRO:HG3	1:D:2415:ARG:HB2	1.64	0.79
1:C:2030:ASP:OD1	1:C:2031:LEU:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3284:TRP:O	1:A:3305:THR:HG21	1.82	0.79
1:C:2093:SER:OG	1:C:2096:GLU:OE1	1.99	0.79
1:B:28:VAL:HG23	1:B:29:LEU:HD23	1.62	0.79
1:D:3097:GLU:O	1:D:3100:SER:OG	2.00	0.79
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.01	0.79
1:D:2093:SER:OG	1:D:2096:GLU:OE1	1.99	0.79
1:C:2974:ILE:HD13	1:C:3049:LEU:HD12	1.63	0.79
1:C:5014:TYR:OH	6:C:5304:A1BD2:O2	2.00	0.79
1:D:2214:VAL:HG21	1:D:2228:MET:HE2	1.64	0.79
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.64	0.79
1:C:2214:VAL:HG21	1:C:2228:MET:HE2	1.64	0.79
1:D:140:ASP:OD2	1:D:142:THR:OG1	2.01	0.79
1:D:2684:ASP:OD1	1:D:2685:SER:N	2.15	0.79
1:D:3284:TRP:O	1:D:3305:THR:HG21	1.82	0.79
1:A:3235:SER:OG	1:A:3237:GLU:OE1	1.99	0.78
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.64	0.78
1:C:3284:TRP:O	1:C:3305:THR:HG21	1.82	0.78
1:B:5014:TYR:OH	6:B:5304:A1BD2:O2	2.00	0.78
1:B:2410:PRO:HG3	1:B:2415:ARG:HB2	1.64	0.78
1:D:3566:SER:HG	1:D:3568:SER:HG	0.81	0.78
1:D:5014:TYR:OH	6:D:5304:A1BD2:O2	2.00	0.78
1:B:2214:VAL:HG21	1:B:2228:MET:HE2	1.64	0.78
1:B:4027:LEU:HD22	1:B:4044:MET:HE2	1.66	0.78
1:C:2410:PRO:HG3	1:C:2415:ARG:HB2	1.64	0.78
1:C:3566:SER:HG	1:C:3568:SER:HG	0.79	0.78
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.01	0.78
1:B:140:ASP:OD2	1:B:142:THR:OG1	2.01	0.78
1:B:1269:CYS:SG	1:B:1563:GLN:NE2	2.57	0.78
1:B:3284:TRP:O	1:B:3305:THR:HG21	1.82	0.78
1:D:4021:LYS:O	1:D:4025:VAL:HG23	1.84	0.78
1:A:4027:LEU:HD22	1:A:4044:MET:HE2	1.66	0.78
1:A:4021:LYS:O	1:A:4025:VAL:HG23	1.84	0.78
1:C:1269:CYS:SG	1:C:1563:GLN:NE2	2.57	0.78
1:C:3351:PRO:HA	1:C:3415:TYR:OH	1.84	0.78
1:A:2747:ILE:HG21	1:A:2814:LYS:HG2	1.66	0.77
1:B:3235:SER:OG	1:B:3237:GLU:OE1	1.99	0.77
1:A:3097:GLU:O	1:A:3100:SER:OG	2.00	0.77
1:B:2747:ILE:HG21	1:B:2814:LYS:HG2	1.66	0.77
1:D:173:SER:HG	1:D:176:SER:HG	0.79	0.77
1:C:144:GLU:OE2	1:C:174:VAL:HG12	1.84	0.77
1:C:4021:LYS:O	1:C:4025:VAL:HG23	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2214:VAL:HG21	1:A:2228:MET:HE2	1.64	0.77
1:D:144:GLU:OE2	1:D:174:VAL:HG12	1.84	0.77
1:A:144:GLU:OE2	1:A:174:VAL:HG12	1.84	0.77
1:D:4027:LEU:HD22	1:D:4044:MET:HE2	1.66	0.77
1:D:2668:SER:O	1:D:2669:GLU:HG3	1.85	0.77
1:D:3351:PRO:HA	1:D:3415:TYR:OH	1.84	0.77
1:C:2751:LEU:HD22	1:C:2817:ILE:HD11	1.66	0.77
1:B:3351:PRO:HA	1:B:3415:TYR:OH	1.84	0.77
1:C:2668:SER:O	1:C:2669:GLU:HG3	1.85	0.77
1:A:2674:LEU:HA	1:A:2677:LYS:HE2	1.67	0.77
1:B:144:GLU:OE2	1:B:174:VAL:HG12	1.84	0.77
1:D:3762:ARG:NH1	1:D:4755:GLU:OE1	2.18	0.77
1:C:4027:LEU:HD22	1:C:4044:MET:HE2	1.66	0.77
1:A:879:HIS:CE1	1:A:906:CYS:HG	2.02	0.77
1:A:1276:THR:O	1:A:1279:SER:OG	2.03	0.77
1:A:3270:ILE:HG23	1:A:3338:LEU:HD13	1.67	0.77
1:A:3762:ARG:NH1	1:A:4755:GLU:OE1	2.18	0.77
1:B:1276:THR:O	1:B:1279:SER:OG	2.03	0.77
1:C:2674:LEU:HA	1:C:2677:LYS:HE2	1.67	0.77
1:B:4687:TYR:O	1:B:4691:GLN:NE2	2.18	0.77
1:D:2674:LEU:HA	1:D:2677:LYS:HE2	1.67	0.77
1:D:2679:PHE:CE1	1:D:2703:LEU:HD13	2.20	0.77
1:A:2668:SER:O	1:A:2669:GLU:HG3	1.85	0.76
1:D:2751:LEU:HD22	1:D:2817:ILE:HD11	1.66	0.76
1:B:1973:GLN:OE1	1:B:3641:LEU:N	2.18	0.76
1:B:4021:LYS:O	1:B:4025:VAL:HG23	1.84	0.76
1:C:4137:ARG:NH2	1:C:4199:GLU:OE2	2.18	0.76
1:A:1973:GLN:OE1	1:A:3641:LEU:N	2.18	0.76
1:A:4137:ARG:NH2	1:A:4199:GLU:OE2	2.18	0.76
1:A:4687:TYR:O	1:A:4691:GLN:NE2	2.18	0.76
1:B:1003:GLN:O	1:B:1016:ARG:NH2	2.19	0.76
1:B:3762:ARG:NH1	1:B:4755:GLU:OE1	2.18	0.76
1:D:3249:LEU:HD23	1:D:3277:LEU:HD12	1.67	0.76
1:C:1003:GLN:O	1:C:1016:ARG:NH2	2.18	0.76
1:C:1644:GLU:OE1	1:C:1646:ARG:NH2	2.19	0.76
1:A:1269:CYS:SG	1:A:1563:GLN:NE2	2.57	0.76
1:B:3249:LEU:HD23	1:B:3277:LEU:HD12	1.67	0.76
1:B:3376:GLU:OE2	1:B:3448:SER:OG	2.03	0.76
1:C:3270:ILE:HG23	1:C:3338:LEU:HD13	1.67	0.76
1:C:3376:GLU:OE2	1:C:3448:SER:OG	2.03	0.76
1:B:2679:PHE:CE1	1:B:2703:LEU:HD13	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1644:GLU:OE1	1:D:1646:ARG:NH2	2.19	0.76
1:C:1973:GLN:OE1	1:C:3641:LEU:N	2.18	0.76
1:A:183:SER:O	1:A:186:SER:OG	2.03	0.76
1:A:3366:ARG:NE	1:A:3440:GLU:OE1	2.19	0.76
1:B:1644:GLU:OE1	1:B:1646:ARG:NH2	2.19	0.76
1:B:2668:SER:O	1:B:2669:GLU:HG3	1.85	0.76
1:D:1003:GLN:O	1:D:1016:ARG:NH2	2.18	0.76
1:C:3762:ARG:NH1	1:C:4755:GLU:OE1	2.18	0.76
1:C:4687:TYR:O	1:C:4691:GLN:NE2	2.18	0.76
1:A:1644:GLU:OE1	1:A:1646:ARG:NH2	2.19	0.76
1:A:4578:LEU:O	1:B:4879:MET:HB2	1.85	0.76
1:B:2674:LEU:HA	1:B:2677:LYS:HE2	1.67	0.76
1:B:3097:GLU:O	1:B:3100:SER:OG	2.00	0.76
1:D:4687:TYR:O	1:D:4691:GLN:NE2	2.18	0.76
1:B:3366:ARG:NE	1:B:3440:GLU:OE1	2.19	0.76
1:C:891:TRP:O	1:C:959:TYR:OH	2.04	0.76
1:C:2679:PHE:CE1	1:C:2703:LEU:HD13	2.20	0.76
1:C:3097:GLU:O	1:C:3100:SER:OG	2.00	0.76
1:C:3249:LEU:HD23	1:C:3277:LEU:HD12	1.67	0.76
1:A:2679:PHE:CE1	1:A:2703:LEU:HD13	2.20	0.76
1:B:183:SER:O	1:B:186:SER:OG	2.03	0.76
1:D:3366:ARG:NE	1:D:3440:GLU:OE1	2.19	0.76
1:B:891:TRP:O	1:B:959:TYR:OH	2.04	0.76
1:B:1720:LEU:HD23	1:B:1851:MET:CE	2.16	0.76
1:B:3270:ILE:HG23	1:B:3338:LEU:HD13	1.67	0.76
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.20	0.76
1:D:183:SER:O	1:D:186:SER:OG	2.03	0.76
1:C:2747:ILE:HG21	1:C:2814:LYS:HG2	1.66	0.76
1:B:3566:SER:OG	1:B:3568:SER:OG	1.98	0.75
1:D:1269:CYS:SG	1:D:1563:GLN:NE2	2.57	0.75
1:D:3270:ILE:HG23	1:D:3338:LEU:HD13	1.67	0.75
1:A:1003:GLN:O	1:A:1016:ARG:NH2	2.19	0.75
1:D:972:LEU:O	1:D:1044:ARG:NH2	2.20	0.75
1:C:2196:ASN:OD1	1:C:2199:ARG:NH1	2.20	0.75
1:A:972:LEU:O	1:A:1044:ARG:NH2	2.20	0.75
1:B:4137:ARG:NH2	1:B:4199:GLU:OE2	2.18	0.75
1:D:2747:ILE:HG21	1:D:2814:LYS:HG2	1.66	0.75
1:A:3351:PRO:HA	1:A:3415:TYR:OH	1.84	0.75
1:B:872:GLU:HA	1:B:922:LEU:HD11	1.69	0.75
1:B:2035:HIS:ND1	1:B:3657:TYR:OH	2.17	0.75
1:C:1276:THR:O	1:C:1279:SER:OG	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3376:GLU:OE2	1:A:3448:SER:OG	2.03	0.75
1:D:872:GLU:HA	1:D:922:LEU:HD11	1.69	0.75
1:C:1263:THR:OG1	1:C:1266:THR:OG1	2.03	0.75
1:C:1720:LEU:HD23	1:C:1851:MET:CE	2.16	0.75
1:A:2035:HIS:ND1	1:A:3657:TYR:OH	2.17	0.75
1:A:3946:GLN:OE1	1:A:3949:ARG:NH2	2.19	0.75
1:B:2751:LEU:HD22	1:B:2817:ILE:HD11	1.66	0.75
1:B:139:GLU:OE1	1:B:139:GLU:N	2.20	0.75
1:D:1276:THR:O	1:D:1279:SER:OG	2.03	0.75
1:D:1973:GLN:OE1	1:D:3641:LEU:N	2.18	0.75
1:D:4137:ARG:NH2	1:D:4199:GLU:OE2	2.18	0.75
1:A:139:GLU:OE1	1:A:139:GLU:N	2.20	0.75
1:A:3249:LEU:HD23	1:A:3277:LEU:HD12	1.67	0.75
1:B:879:HIS:CE1	1:B:906:CYS:HG	2.04	0.75
1:B:2196:ASN:OD1	1:B:2199:ARG:NH1	2.20	0.75
1:D:2196:ASN:OD1	1:D:2199:ARG:NH1	2.20	0.75
1:C:183:SER:O	1:C:186:SER:OG	2.03	0.75
1:C:872:GLU:HA	1:C:922:LEU:HD11	1.69	0.75
1:C:3946:GLN:OE1	1:C:3949:ARG:NH2	2.20	0.75
1:A:2196:ASN:OD1	1:A:2199:ARG:NH1	2.20	0.74
1:D:1720:LEU:HD23	1:D:1851:MET:CE	2.16	0.74
1:D:2481:LYS:O	1:D:2482:ASP:OD1	2.05	0.74
1:A:2751:LEU:HD22	1:A:2817:ILE:HD11	1.66	0.74
1:D:233:ILE:O	1:D:257:ARG:NH2	2.20	0.74
1:D:3946:GLN:OE1	1:D:3949:ARG:NH2	2.19	0.74
1:C:139:GLU:OE1	1:C:139:GLU:N	2.20	0.74
1:C:233:ILE:O	1:C:257:ARG:NH2	2.20	0.74
1:A:909:ASN:ND2	1:A:965:TYR:CE2	2.55	0.74
1:C:173:SER:HG	1:C:176:SER:HG	0.75	0.74
1:C:3141:THR:HG23	1:C:3196:ARG:HG3	1.69	0.74
1:C:3366:ARG:NE	1:C:3440:GLU:OE1	2.19	0.74
1:A:872:GLU:HA	1:A:922:LEU:HD11	1.69	0.74
1:D:620:LEU:O	1:D:624:ASN:ND2	2.21	0.74
1:C:972:LEU:O	1:C:1044:ARG:NH2	2.20	0.74
1:D:1241:SER:HA	1:D:1603:VAL:HG22	1.70	0.74
1:D:4071:ILE:HG21	1:D:4097:MET:HE1	1.70	0.74
1:C:3366:ARG:NH2	1:C:3437:MET:HG2	2.02	0.74
1:C:4162:ASN:OD1	1:C:4163:PHE:N	2.21	0.74
1:B:3366:ARG:NH2	1:B:3437:MET:HG2	2.02	0.74
1:A:620:LEU:O	1:A:624:ASN:ND2	2.21	0.74
1:A:891:TRP:O	1:A:959:TYR:OH	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3141:THR:HG23	1:B:3196:ARG:HG3	1.69	0.74
1:C:1241:SER:HA	1:C:1603:VAL:HG22	1.70	0.74
1:B:4162:ASN:OD1	1:B:4163:PHE:N	2.21	0.74
1:A:4071:ILE:HG21	1:A:4097:MET:HE1	1.70	0.74
1:B:1579:MET:HE1	1:B:1595:LEU:HD22	1.70	0.74
1:B:4071:ILE:HG21	1:B:4097:MET:HE1	1.70	0.74
1:D:909:ASN:ND2	1:D:965:TYR:CE2	2.55	0.74
1:D:3366:ARG:NH2	1:D:3437:MET:HG2	2.02	0.74
1:C:1579:MET:HE1	1:C:1595:LEU:HD22	1.70	0.74
1:C:2481:LYS:O	1:C:2482:ASP:OD1	2.05	0.74
1:A:233:ILE:O	1:A:257:ARG:NH2	2.20	0.74
1:A:4162:ASN:OD1	1:A:4163:PHE:N	2.21	0.74
1:B:909:ASN:ND2	1:B:965:TYR:CE2	2.55	0.74
1:B:972:LEU:O	1:B:1044:ARG:NH2	2.20	0.74
1:D:4162:ASN:OD1	1:D:4163:PHE:N	2.21	0.74
1:C:879:HIS:CE1	1:C:906:CYS:HG	2.05	0.74
1:C:909:ASN:ND2	1:C:965:TYR:CE2	2.55	0.74
1:C:4071:ILE:HG21	1:C:4097:MET:HE1	1.70	0.74
1:A:1720:LEU:HD23	1:A:1851:MET:CE	2.16	0.73
1:A:3207:GLU:OE1	1:A:3207:GLU:N	2.21	0.73
1:A:3771:HIS:O	1:A:3815:LYS:NZ	2.21	0.73
1:A:4717:ASP:OD2	1:A:4723:LYS:NZ	2.21	0.73
1:B:233:ILE:O	1:B:257:ARG:NH2	2.20	0.73
1:D:891:TRP:O	1:D:959:TYR:OH	2.04	0.73
1:D:1579:MET:HE1	1:D:1595:LEU:HD22	1.70	0.73
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.70	0.73
1:D:4706:LEU:HD13	1:D:4740:LEU:HD21	1.70	0.73
1:C:4099:SER:O	1:C:4101:LYS:NZ	2.21	0.73
1:A:669:ASP:OD2	1:A:788:LYS:NZ	2.21	0.73
1:A:3384:LYS:O	1:A:3387:ALA:N	2.22	0.73
1:C:1579:MET:HE2	1:C:1580:PHE:CE1	2.23	0.73
1:A:1579:MET:HE2	1:A:1580:PHE:CE1	2.24	0.73
1:B:3207:GLU:OE1	1:B:3207:GLU:N	2.21	0.73
1:B:2481:LYS:O	1:B:2482:ASP:OD1	2.05	0.73
1:D:2615:ARG:NH2	1:D:2664:PHE:O	2.22	0.73
1:A:1241:SER:HA	1:A:1603:VAL:HG22	1.70	0.73
1:B:2615:ARG:NH2	1:B:2664:PHE:O	2.22	0.73
1:D:3376:GLU:OE2	1:D:3448:SER:OG	2.03	0.73
1:C:310:LYS:O	1:C:350:HIS:NE2	2.21	0.73
1:C:4885:PHE:CE2	1:C:4897:ILE:HD11	2.24	0.73
1:A:310:LYS:O	1:A:350:HIS:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3366:ARG:NH2	1:A:3437:MET:HG2	2.03	0.73
1:A:4885:PHE:CE2	1:A:4897:ILE:HD11	2.24	0.73
1:B:4885:PHE:CE2	1:B:4897:ILE:HD11	2.24	0.73
1:B:3771:HIS:O	1:B:3815:LYS:NZ	2.21	0.73
1:B:4885:PHE:O	1:B:4889:VAL:HG22	1.89	0.73
1:D:4157:ASP:N	1:D:4161:ARG:HH12	1.87	0.73
1:C:620:LEU:O	1:C:624:ASN:ND2	2.21	0.73
1:C:2615:ARG:NH2	1:C:2664:PHE:O	2.22	0.73
1:A:2481:LYS:O	1:A:2482:ASP:OD1	2.05	0.73
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.70	0.73
1:A:3336:LYS:NZ	1:A:3462:ASN:OD1	2.22	0.73
1:A:3996:PHE:HD1	1:A:4016:LEU:HD11	1.54	0.73
1:A:4885:PHE:O	1:A:4889:VAL:HG22	1.89	0.73
1:B:620:LEU:O	1:B:624:ASN:ND2	2.21	0.73
1:B:4717:ASP:OD2	1:B:4723:LYS:NZ	2.21	0.73
1:A:2830:GLU:N	1:A:2830:GLU:OE1	2.22	0.73
1:A:3141:THR:HG23	1:A:3196:ARG:HG3	1.69	0.73
1:B:2490:MET:HE3	1:B:2545:GLU:OE2	1.89	0.73
1:D:2830:GLU:N	1:D:2830:GLU:OE1	2.22	0.73
1:D:3384:LYS:O	1:D:3387:ALA:N	2.21	0.73
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.70	0.73
1:A:2675:THR:HG21	1:A:2710:LEU:HD21	1.71	0.72
1:A:3270:ILE:HG21	1:A:3334:TRP:CE3	2.24	0.72
1:B:1241:SER:HA	1:B:1603:VAL:HG22	1.70	0.72
1:B:1263:THR:OG1	1:B:1266:THR:OG1	2.03	0.72
1:D:3141:THR:HG23	1:D:3196:ARG:HG3	1.69	0.72
1:D:3771:HIS:O	1:D:3815:LYS:NZ	2.21	0.72
1:D:4885:PHE:O	1:D:4889:VAL:HG22	1.89	0.72
1:A:2674:LEU:HD23	1:A:2677:LYS:NZ	2.04	0.72
1:D:139:GLU:N	1:D:139:GLU:OE1	2.20	0.72
1:D:1579:MET:HE2	1:D:1580:PHE:CE1	2.23	0.72
1:D:4885:PHE:CE2	1:D:4897:ILE:HD11	2.24	0.72
1:A:2490:MET:HE3	1:A:2545:GLU:OE2	1.89	0.72
1:B:1579:MET:HE2	1:B:1580:PHE:CE1	2.23	0.72
1:B:3336:LYS:NZ	1:B:3462:ASN:OD1	2.22	0.72
1:B:3996:PHE:HD1	1:B:4016:LEU:HD11	1.54	0.72
1:B:4099:SER:O	1:B:4101:LYS:NZ	2.21	0.72
1:D:1561:VAL:HG12	1:D:1562:ILE:HG23	1.70	0.72
1:B:669:ASP:OD2	1:B:788:LYS:NZ	2.21	0.72
1:B:4157:ASP:H	1:B:4161:ARG:HH12	1.36	0.72
1:A:2615:ARG:NH2	1:A:2664:PHE:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4157:ASP:N	1:A:4161:ARG:HH12	1.87	0.72
1:B:1561:VAL:HG12	1:B:1562:ILE:HG23	1.70	0.72
1:B:2830:GLU:OE1	1:B:2830:GLU:N	2.22	0.72
1:D:2675:THR:HG21	1:D:2710:LEU:HD21	1.71	0.72
1:C:3771:HIS:O	1:C:3815:LYS:NZ	2.21	0.72
1:C:3996:PHE:HD1	1:C:4016:LEU:HD11	1.54	0.72
2:G:21:THR:OG1	2:G:49:MET:SD	2.47	0.72
1:B:1102:VAL:HG11	1:B:1149:VAL:HG11	1.71	0.72
1:B:2674:LEU:HD23	1:B:2677:LYS:NZ	2.04	0.72
1:B:3384:LYS:O	1:B:3387:ALA:N	2.21	0.72
1:C:2490:MET:HE3	1:C:2545:GLU:OE2	1.89	0.72
1:C:2674:LEU:HD23	1:C:2677:LYS:NZ	2.04	0.72
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.71	0.72
1:C:4157:ASP:N	1:C:4161:ARG:HH12	1.87	0.72
1:A:4706:LEU:HD13	1:A:4740:LEU:HD21	1.70	0.72
1:D:2674:LEU:HD23	1:D:2677:LYS:NZ	2.04	0.72
1:C:669:ASP:OD2	1:C:788:LYS:NZ	2.21	0.72
1:B:310:LYS:O	1:B:350:HIS:NE2	2.21	0.72
1:B:2675:THR:HG21	1:B:2710:LEU:HD21	1.72	0.72
1:D:669:ASP:OD2	1:D:788:LYS:NZ	2.21	0.72
1:D:3207:GLU:N	1:D:3207:GLU:OE1	2.21	0.72
1:D:3336:LYS:NZ	1:D:3462:ASN:OD1	2.22	0.72
1:C:2830:GLU:OE1	1:C:2830:GLU:N	2.22	0.72
1:C:3336:LYS:NZ	1:C:3462:ASN:OD1	2.22	0.72
1:B:2890:LYS:O	1:B:2894:LEU:HD13	1.90	0.72
1:D:310:LYS:O	1:D:350:HIS:NE2	2.21	0.72
1:D:3270:ILE:HG21	1:D:3334:TRP:CE3	2.24	0.72
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.71	0.72
1:D:4717:ASP:OD2	1:D:4723:LYS:NZ	2.21	0.72
1:C:3270:ILE:HG21	1:C:3334:TRP:CE3	2.24	0.72
1:C:4157:ASP:H	1:C:4161:ARG:HH12	1.36	0.72
1:A:1561:VAL:HG12	1:A:1562:ILE:HG23	1.70	0.72
1:A:1579:MET:HE1	1:A:1595:LEU:HD22	1.70	0.72
1:A:4747:SER:O	1:A:4751:THR:HG23	1.90	0.72
1:D:2609:ALA:O	1:D:2612[A]:ARG:NH1	2.23	0.72
1:C:4885:PHE:O	1:C:4889:VAL:HG22	1.89	0.72
1:D:2490:MET:HE3	1:D:2545:GLU:OE2	1.89	0.71
1:D:3705:PHE:HB2	1:D:3778:MET:HE2	1.72	0.71
1:C:1102:VAL:HG11	1:C:1149:VAL:HG11	1.71	0.71
1:C:1561:VAL:HG12	1:C:1562:ILE:HG23	1.70	0.71
1:C:3207:GLU:OE1	1:C:3207:GLU:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4747:SER:O	1:C:4751:THR:HG23	1.90	0.71
1:A:1263:THR:OG1	1:A:1266:THR:OG1	2.03	0.71
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.70	0.71
1:A:2890:LYS:O	1:A:2894:LEU:HD13	1.90	0.71
1:B:4706:LEU:HD13	1:B:4740:LEU:HD21	1.70	0.71
1:B:4989:MET:SD	1:B:4993:MET:HE2	2.31	0.71
1:D:1102:VAL:HG11	1:D:1149:VAL:HG11	1.71	0.71
1:D:4747:SER:O	1:D:4751:THR:HG23	1.90	0.71
1:A:4989:MET:SD	1:A:4993:MET:HE2	2.31	0.71
1:D:3996:PHE:HD1	1:D:4016:LEU:HD11	1.54	0.71
1:C:3705:PHE:HB2	1:C:3778:MET:HE2	1.72	0.71
1:C:4717:ASP:OD2	1:C:4723:LYS:NZ	2.21	0.71
1:B:4157:ASP:N	1:B:4161:ARG:HH12	1.87	0.71
1:B:4747:SER:O	1:B:4751:THR:HG23	1.90	0.71
1:D:4989:MET:SD	1:D:4993:MET:HE2	2.31	0.71
1:C:3384:LYS:O	1:C:3387:ALA:N	2.22	0.71
1:A:874:LEU:HD22	1:A:1046:LEU:HD21	1.72	0.71
1:A:1102:VAL:HG11	1:A:1149:VAL:HG11	1.71	0.71
1:A:4839:MET:CE	1:D:4820:VAL:HG11	2.21	0.71
1:D:879:HIS:CE1	1:D:906:CYS:HG	2.09	0.71
1:C:4989:MET:SD	1:C:4993:MET:HE2	2.31	0.71
1:A:3365:LEU:HD11	1:A:3405:LEU:CD2	2.20	0.71
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.71	0.71
1:D:4157:ASP:H	1:D:4161:ARG:HH12	1.36	0.71
1:C:3456:GLN:OE1	1:C:3499:ARG:NH2	2.24	0.71
1:C:4706:LEU:HD13	1:C:4740:LEU:HD21	1.70	0.71
1:A:236:ALA:O	1:A:237:ASP:OD1	2.09	0.71
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.71	0.71
1:A:4157:ASP:H	1:A:4161:ARG:HH12	1.36	0.71
1:B:874:LEU:HD22	1:B:1046:LEU:HD21	1.73	0.71
1:B:2530:MET:SD	1:B:2554:LEU:HD22	2.31	0.71
1:B:3270:ILE:HG21	1:B:3334:TRP:CE3	2.24	0.71
1:B:3456:GLN:OE1	1:B:3499:ARG:NH2	2.24	0.71
1:C:236:ALA:O	1:C:237:ASP:OD1	2.09	0.71
1:A:633:LEU:HD22	1:A:1639:LEU:HD21	1.73	0.71
1:C:2675:THR:HG21	1:C:2710:LEU:HD21	1.72	0.71
1:A:2530:MET:SD	1:A:2554:LEU:HD22	2.31	0.71
2:H:77:SER:OG	2:H:79:ASP:OD1	2.09	0.71
1:B:236:ALA:O	1:B:237:ASP:OD1	2.09	0.71
1:D:236:ALA:O	1:D:237:ASP:OD1	2.09	0.71
1:C:577:ILE:O	1:C:579:GLN:NE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2530:MET:SD	1:C:2554:LEU:HD22	2.31	0.71
1:C:2609:ALA:O	1:C:2612[A]:ARG:NH1	2.23	0.71
1:A:3456:GLN:OE1	1:A:3499:ARG:NH2	2.24	0.70
1:B:2609:ALA:O	1:B:2612[A]:ARG:NH1	2.23	0.70
1:D:577:ILE:O	1:D:579:GLN:NE2	2.24	0.70
1:D:3456:GLN:OE1	1:D:3499:ARG:NH2	2.24	0.70
1:A:3719:ASP:H	1:A:3793:MET:CE	2.05	0.70
1:B:973:SER:O	1:B:976:ARG:NH1	2.24	0.70
1:B:3705:PHE:HB2	1:B:3778:MET:HE2	1.72	0.70
1:B:3719:ASP:H	1:B:3793:MET:CE	2.05	0.70
1:C:1290:ARG:HD2	1:C:1549:PHE:CB	2.21	0.70
1:B:577:ILE:O	1:B:579:GLN:NE2	2.24	0.70
1:B:1290:ARG:HD2	1:B:1549:PHE:CB	2.21	0.70
1:D:1263:THR:OG1	1:D:1266:THR:OG1	2.03	0.70
1:D:1754:GLY:O	1:D:1758:ARG:N	2.24	0.70
1:C:3719:ASP:H	1:C:3793:MET:CE	2.05	0.70
1:A:1671:ARG:NH1	1:A:1710:GLY:O	2.24	0.70
1:C:2890:LYS:O	1:C:2894:LEU:HD13	1.90	0.70
1:A:4241:THR:HG22	1:A:4245:MET:SD	2.32	0.70
1:B:4241:THR:HG22	1:B:4245:MET:SD	2.32	0.70
1:D:973:SER:O	1:D:976:ARG:NH1	2.24	0.70
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.24	0.70
1:D:2890:LYS:O	1:D:2894:LEU:HD13	1.90	0.70
1:D:3719:ASP:H	1:D:3793:MET:CE	2.05	0.70
1:C:973:SER:O	1:C:976:ARG:NH1	2.24	0.70
2:E:77:SER:OG	2:E:79:ASP:OD1	2.09	0.70
1:B:3135:ALA:O	1:B:3139:VAL:HG22	1.92	0.70
1:D:633:LEU:HD22	1:D:1639:LEU:HD21	1.73	0.70
1:A:577:ILE:O	1:A:579:GLN:NE2	2.24	0.70
1:A:1754:GLY:O	1:A:1758:ARG:N	2.24	0.70
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.25	0.70
1:D:3365:LEU:HD11	1:D:3405:LEU:CD2	2.20	0.70
1:C:3135:ALA:O	1:C:3139:VAL:HG22	1.92	0.70
1:A:76:ARG:NH1	1:D:3844:LEU:HD13	2.07	0.70
1:A:4879:MET:HB2	1:D:4578:LEU:O	1.91	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.74	0.70
1:B:1153:ILE:HD11	1:B:1155:LEU:HD21	1.73	0.70
1:D:2742:THR:HG21	1:D:2814:LYS:HB3	1.74	0.70
1:D:3668:SER:OG	1:D:3731:LYS:NZ	2.25	0.70
1:A:973:SER:O	1:A:976:ARG:NH1	2.24	0.70
1:A:3668:SER:OG	1:A:3731:LYS:NZ	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1754:GLY:O	1:B:1758:ARG:N	2.24	0.70
1:B:3365:LEU:HD11	1:B:3405:LEU:CD2	2.20	0.70
1:D:978:THR:O	1:D:982:THR:HG23	1.92	0.70
1:D:2530:MET:SD	1:D:2554:LEU:HD22	2.31	0.70
1:D:4755:GLU:OE2	1:D:4757:LYS:NZ	2.24	0.70
1:C:1754:GLY:O	1:C:1758:ARG:N	2.24	0.70
1:C:2742:THR:HG21	1:C:2814:LYS:HB3	1.74	0.70
1:C:4070:ASP:OD1	1:C:4071:ILE:N	2.25	0.70
1:A:1290:ARG:HD2	1:A:1549:PHE:CB	2.21	0.69
1:A:3566:SER:OG	1:A:3568:SER:OG	1.98	0.69
1:A:3705:PHE:HB2	1:A:3778:MET:HE2	1.72	0.69
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.74	0.69
1:A:1153:ILE:HD11	1:A:1155:LEU:HD21	1.73	0.69
1:A:4070:ASP:OD1	1:A:4071:ILE:N	2.25	0.69
2:F:77:SER:OG	2:F:79:ASP:OD1	2.09	0.69
1:B:3052:HIS:HE2	1:B:3128:ASN:CG	2.01	0.69
1:D:4070:ASP:OD1	1:D:4071:ILE:N	2.25	0.69
1:C:874:LEU:HD22	1:C:1046:LEU:HD21	1.73	0.69
1:C:954:LYS:NZ	1:C:966:LYS:O	2.26	0.69
1:C:978:THR:O	1:C:982:THR:HG23	1.92	0.69
1:C:1153:ILE:HD11	1:C:1155:LEU:HD21	1.73	0.69
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.24	0.69
1:A:4099:SER:O	1:A:4101:LYS:NZ	2.21	0.69
1:D:874:LEU:HD22	1:D:1046:LEU:HD21	1.72	0.69
1:D:1290:ARG:HD2	1:D:1549:PHE:CB	2.21	0.69
1:C:4241:THR:HG22	1:C:4245:MET:SD	2.32	0.69
1:A:4755:GLU:OE2	1:A:4757:LYS:NZ	2.24	0.69
1:B:633:LEU:HD22	1:B:1639:LEU:HD21	1.73	0.69
1:B:1577:ALA:O	1:B:1584:ARG:NH1	2.26	0.69
1:D:3135:ALA:O	1:D:3139:VAL:HG22	1.92	0.69
1:C:3052:HIS:HE2	1:C:3128:ASN:CG	2.01	0.69
1:A:1499:ASP:OD1	1:A:1500:PHE:N	2.26	0.69
1:A:2609:ALA:O	1:A:2612[A]:ARG:NH1	2.23	0.69
1:B:4755:GLU:OE2	1:B:4757:LYS:NZ	2.24	0.69
1:D:1499:ASP:OD1	1:D:1500:PHE:N	2.26	0.69
1:C:1499:ASP:OD1	1:C:1500:PHE:N	2.26	0.69
1:A:1112:ASP:OD1	1:A:1113:VAL:HG23	1.93	0.69
1:A:2742:THR:HG21	1:A:2814:LYS:HB3	1.74	0.69
1:B:2243:SER:OG	1:B:3861:GLU:OE2	2.11	0.69
1:A:954:LYS:NZ	1:A:966:LYS:O	2.26	0.69
1:A:1577:ALA:O	1:A:1584:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.26	0.69
1:B:1499:ASP:OD1	1:B:1500:PHE:N	2.26	0.69
1:D:1569:GLN:HB2	1:D:1572:ILE:HD13	1.75	0.69
1:D:4241:THR:HG22	1:D:4245:MET:SD	2.32	0.69
1:C:1112:ASP:OD1	1:C:1113:VAL:HG23	1.93	0.69
1:C:1569:GLN:HB2	1:C:1572:ILE:HD13	1.75	0.69
1:C:3779:VAL:HG13	1:C:3797:THR:HG22	1.75	0.69
2:F:21:THR:OG1	2:F:49:MET:SD	2.47	0.69
1:B:1112:ASP:OD1	1:B:1113:VAL:HG23	1.93	0.69
1:B:4070:ASP:OD1	1:B:4071:ILE:N	2.25	0.69
1:D:954:LYS:NZ	1:D:966:LYS:O	2.26	0.69
1:D:3779:VAL:HG13	1:D:3797:THR:HG22	1.75	0.69
1:C:633:LEU:HD22	1:C:1639:LEU:HD21	1.73	0.69
1:A:3135:ALA:O	1:A:3139:VAL:HG22	1.92	0.69
1:B:954:LYS:NZ	1:B:966:LYS:O	2.26	0.69
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.74	0.69
1:C:2243:SER:OG	1:C:3861:GLU:OE2	2.11	0.69
1:A:2668:SER:N	1:A:2671:GLU:OE2	2.26	0.68
1:D:1112:ASP:OD1	1:D:1113:VAL:HG23	1.93	0.68
1:D:2035:HIS:ND1	1:D:3657:TYR:OH	2.17	0.68
1:A:4820:VAL:HG11	1:B:4839:MET:CE	2.23	0.68
1:D:3052:HIS:HE2	1:D:3128:ASN:CG	2.01	0.68
1:A:2258:LEU:C	1:A:2297:LYS:HZ3	2.02	0.68
1:B:2668:SER:N	1:B:2671:GLU:OE2	2.26	0.68
1:B:3668:SER:OG	1:B:3731:LYS:NZ	2.25	0.68
1:D:1153:ILE:HD11	1:D:1155:LEU:HD21	1.73	0.68
1:D:2258:LEU:C	1:D:2297:LYS:HZ3	2.01	0.68
1:D:3955:MET:HE1	1:D:4016:LEU:HA	1.74	0.68
1:D:4099:SER:O	1:D:4101:LYS:NZ	2.21	0.68
1:A:2667:THR:OG1	1:A:2671:GLU:OE2	2.07	0.68
2:G:77:SER:OG	2:G:79:ASP:OD1	2.09	0.68
1:B:2742:THR:HG21	1:B:2814:LYS:HB3	1.74	0.68
1:D:4818:MET:O	1:D:4824:ARG:NH1	2.27	0.68
1:C:4090:LYS:HE2	1:C:4112:LEU:HD22	1.76	0.68
1:A:3779:VAL:HG13	1:A:3797:THR:HG22	1.75	0.68
1:A:3874:VAL:HG11	1:A:3950:ASN:HD21	1.59	0.68
1:B:1569:GLN:HB2	1:B:1572:ILE:HD13	1.75	0.68
1:B:4578:LEU:O	1:C:4879:MET:HB2	1.93	0.68
1:C:2668:SER:N	1:C:2671:GLU:OE2	2.26	0.68
1:A:1079:LYS:NZ	1:A:1107:PRO:O	2.27	0.68
1:B:1749:PRO:O	1:B:1758:ARG:NE	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:ARG:NH1	1:C:3844:LEU:HD13	2.07	0.68
1:D:3874:VAL:HG11	1:D:3950:ASN:HD21	1.59	0.68
1:C:2166:LEU:HD11	1:C:2206:THR:HG23	1.76	0.68
1:C:2258:LEU:C	1:C:2297:LYS:HZ3	2.02	0.68
1:C:4818:MET:O	1:C:4824:ARG:NH1	2.27	0.68
1:A:978:THR:O	1:A:982:THR:HG23	1.92	0.68
1:A:3598:GLU:O	1:A:3602:VAL:HG23	1.94	0.68
1:B:978:THR:O	1:B:982:THR:HG23	1.92	0.68
1:D:1079:LYS:NZ	1:D:1107:PRO:O	2.27	0.68
1:D:1749:PRO:O	1:D:1758:ARG:NE	2.27	0.68
1:D:4090:LYS:HE2	1:D:4112:LEU:HD22	1.76	0.68
1:C:3020:THR:OG1	1:C:3023:LYS:O	2.07	0.68
1:C:3611:HIS:ND1	1:C:3611:HIS:O	2.27	0.68
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.26	0.68
1:A:2440:MET:SD	1:A:2441:HIS:N	2.67	0.68
1:B:3248:ARG:NH1	1:B:3252:ASP:OD1	2.27	0.68
1:B:3719:ASP:H	1:B:3793:MET:HE2	1.59	0.68
1:B:3874:VAL:HG11	1:B:3950:ASN:HD21	1.59	0.68
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.76	0.68
1:B:4818:MET:O	1:B:4824:ARG:NH1	2.27	0.68
1:C:3248:ARG:NH1	1:C:3252:ASP:OD1	2.27	0.68
1:A:1749:PRO:O	1:A:1758:ARG:NE	2.27	0.68
1:A:4818:MET:O	1:A:4824:ARG:NH1	2.27	0.68
1:D:3230:LEU:HD12	1:D:3232:LEU:HD13	1.76	0.68
1:C:3230:LEU:HD12	1:C:3232:LEU:HD13	1.76	0.68
1:C:3598:GLU:O	1:C:3602:VAL:HG23	1.94	0.68
1:A:1569:GLN:HB2	1:A:1572:ILE:HD13	1.75	0.68
1:B:2440:MET:SD	1:B:2441:HIS:N	2.67	0.68
1:D:1931:LEU:HD12	1:D:1939:MET:HE1	1.76	0.68
1:C:3788:GLY:N	1:C:3831:SER:OG	2.27	0.68
1:C:3955:MET:HE1	1:C:4016:LEU:HA	1.74	0.68
1:A:913:LEU:O	1:A:918:ARG:NH2	2.27	0.67
1:A:3052:HIS:HE2	1:A:3128:ASN:CG	2.01	0.67
1:B:971:ASP:O	1:B:974:HIS:ND1	2.27	0.67
1:B:3598:GLU:O	1:B:3602:VAL:HG23	1.94	0.67
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.27	0.67
1:B:3955:MET:HE1	1:B:4016:LEU:HA	1.74	0.67
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.74	0.67
1:A:2243:SER:OG	1:A:3861:GLU:OE2	2.11	0.67
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.27	0.67
1:D:2166:LEU:HD11	1:D:2206:THR:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2243:SER:OG	1:D:3861:GLU:OE2	2.11	0.67
1:D:3898:ASP:OD1	1:D:3899:PHE:N	2.26	0.67
1:C:913:LEU:O	1:C:918:ARG:NH2	2.27	0.67
1:C:1749:PRO:O	1:C:1758:ARG:NE	2.27	0.67
1:C:2274:ASP:OD1	1:C:2275:VAL:N	2.28	0.67
1:C:3668:SER:OG	1:C:3731:LYS:NZ	2.25	0.67
1:A:1931:LEU:HD12	1:A:1939:MET:HE1	1.76	0.67
1:A:2274:ASP:OD1	1:A:2275:VAL:N	2.28	0.67
1:A:3719:ASP:H	1:A:3793:MET:HE2	1.59	0.67
1:D:3248:ARG:NH1	1:D:3252:ASP:OD1	2.27	0.67
1:D:3788:GLY:N	1:D:3831:SER:OG	2.27	0.67
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.28	0.67
2:E:21:THR:OG1	2:E:49:MET:SD	2.47	0.67
1:B:3898:ASP:OD1	1:B:3899:PHE:N	2.26	0.67
1:D:857:ASP:OD1	1:D:859:VAL:HG22	1.95	0.67
1:D:913:LEU:O	1:D:918:ARG:NH2	2.27	0.67
1:D:2440:MET:SD	1:D:2441:HIS:N	2.67	0.67
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.27	0.67
1:D:3955:MET:HE1	1:D:4016:LEU:CA	2.25	0.67
1:C:2440:MET:SD	1:C:2441:HIS:N	2.67	0.67
1:A:173:SER:HG	1:A:176:SER:HG	0.69	0.67
1:A:857:ASP:OD1	1:A:859:VAL:HG22	1.95	0.67
1:A:971:ASP:O	1:A:974:HIS:ND1	2.27	0.67
1:A:3955:MET:HE1	1:A:4016:LEU:CA	2.25	0.67
1:B:2166:LEU:HD11	1:B:2206:THR:HG23	1.76	0.67
1:D:2668:SER:N	1:D:2671:GLU:OE2	2.26	0.67
1:D:4879:MET:HB2	1:C:4578:LEU:O	1.93	0.67
1:C:3955:MET:HE1	1:C:4016:LEU:CA	2.25	0.67
1:A:3106:MET:HE3	1:A:3128:ASN:ND2	2.09	0.67
1:A:3230:LEU:HD12	1:A:3232:LEU:HD13	1.76	0.67
1:B:2274:ASP:OD1	1:B:2275:VAL:N	2.28	0.67
1:B:3230:LEU:HD12	1:B:3232:LEU:HD13	1.76	0.67
1:C:3285:TRP:NE1	1:C:3290:GLU:OE1	2.28	0.67
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.76	0.67
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.27	0.67
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.28	0.67
1:B:3779:VAL:HG13	1:B:3797:THR:HG22	1.75	0.67
1:B:3844:LEU:HD13	1:C:76:ARG:NH1	2.09	0.67
1:D:2274:ASP:OD1	1:D:2275:VAL:N	2.28	0.67
1:C:2464:ASP:OD1	1:C:2465:ASP:N	2.28	0.67
2:H:21:THR:OG1	2:H:49:MET:SD	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1931:LEU:HD12	1:B:1939:MET:HE1	1.76	0.67
1:B:3285:TRP:NE1	1:B:3290:GLU:OE1	2.28	0.67
1:D:2464:ASP:OD1	1:D:2465:ASP:N	2.28	0.67
1:C:971:ASP:O	1:C:974:HIS:ND1	2.27	0.67
1:C:2932:MET:HG3	1:C:2933:ASN:N	2.10	0.67
1:C:3106:MET:HE3	1:C:3128:ASN:ND2	2.09	0.67
1:A:1141:ARG:CB	1:D:3479:ALA:HB1	2.25	0.67
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.28	0.67
1:A:3788:GLY:N	1:A:3831:SER:OG	2.27	0.67
1:A:4577:LEU:HD21	1:A:4807:PHE:HD1	1.60	0.67
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.75	0.67
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.28	0.67
1:D:3598:GLU:O	1:D:3602:VAL:HG23	1.94	0.67
1:A:4090:LYS:HE2	1:A:4112:LEU:HD22	1.76	0.67
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.76	0.67
1:D:2932:MET:HG3	1:D:2933:ASN:N	2.10	0.67
1:C:857:ASP:OD1	1:C:859:VAL:HG22	1.95	0.67
1:C:1079:LYS:NZ	1:C:1107:PRO:O	2.27	0.67
1:C:3365:LEU:HD11	1:C:3405:LEU:CD2	2.20	0.67
1:A:2368:LEU:HD21	1:A:2376:LEU:HB2	1.77	0.66
1:A:2520:HIS:O	1:A:2524:VAL:HG22	1.95	0.66
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.28	0.66
1:D:971:ASP:O	1:D:974:HIS:ND1	2.27	0.66
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.28	0.66
1:D:3020:THR:OG1	1:D:3023:LYS:O	2.07	0.66
1:D:3996:PHE:CD1	1:D:4016:LEU:HD11	2.31	0.66
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.75	0.66
1:D:4839:MET:CE	1:C:4820:VAL:HG11	2.25	0.66
1:C:3996:PHE:CD1	1:C:4016:LEU:HD11	2.31	0.66
1:A:981:GLN:O	1:A:985:VAL:HG23	1.95	0.66
1:A:3248:ARG:NH1	1:A:3252:ASP:OD1	2.27	0.66
1:A:3955:MET:HE1	1:A:4016:LEU:HA	1.74	0.66
1:B:981:GLN:O	1:B:985:VAL:HG23	1.95	0.66
1:B:2674:LEU:HD23	1:B:2677:LYS:HZ1	1.61	0.66
1:B:3788:GLY:N	1:B:3831:SER:OG	2.27	0.66
1:D:981:GLN:O	1:D:985:VAL:HG23	1.95	0.66
1:C:3719:ASP:H	1:C:3793:MET:HE2	1.59	0.66
1:C:3874:VAL:HG11	1:C:3950:ASN:HD21	1.59	0.66
1:C:4755:GLU:OE2	1:C:4757:LYS:NZ	2.24	0.66
1:A:493:ARG:O	1:A:496:VAL:HG12	1.96	0.66
1:A:2166:LEU:HD11	1:A:2206:THR:HG23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:84:ALA:HA	2:F:94:HIS:CE1	2.31	0.66
1:B:913:LEU:O	1:B:918:ARG:NH2	2.27	0.66
1:B:3106:MET:HE3	1:B:3128:ASN:ND2	2.09	0.66
1:B:3996:PHE:CD1	1:B:4016:LEU:HD11	2.31	0.66
1:D:3719:ASP:H	1:D:3793:MET:HE2	1.59	0.66
1:C:186:SER:OG	1:C:188:GLU:O	2.14	0.66
1:A:3996:PHE:CD1	1:A:4016:LEU:HD11	2.31	0.66
1:D:1577:ALA:O	1:D:1584:ARG:NH1	2.26	0.66
1:D:2593:ARG:O	1:D:2594:SER:OG	2.14	0.66
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.28	0.66
1:C:4743:MET:HE2	1:C:4748:LEU:HD11	1.78	0.66
1:A:3842:LEU:HD13	1:A:3933:PHE:CE2	2.31	0.66
2:G:84:ALA:HA	2:G:94:HIS:CE1	2.31	0.66
1:D:3106:MET:HE3	1:D:3128:ASN:ND2	2.09	0.66
1:C:3842:LEU:HD13	1:C:3933:PHE:CE2	2.31	0.66
1:A:3247:ASP:OD1	1:A:3248:ARG:N	2.29	0.66
1:B:2368:LEU:HD21	1:B:2376:LEU:HB2	1.77	0.66
1:D:659:TYR:OH	1:D:807:GLY:O	2.11	0.66
1:C:981:GLN:O	1:C:985:VAL:HG23	1.95	0.66
1:A:4041:ALA:O	1:A:4045:VAL:HG23	1.95	0.66
1:A:4743:MET:HE2	1:A:4748:LEU:HD11	1.78	0.66
1:B:4743:MET:HE2	1:B:4748:LEU:HD11	1.78	0.66
1:B:4820:VAL:HG11	1:C:4839:MET:CE	2.25	0.66
1:D:1641:ILE:HD11	1:D:1648:MET:HE3	1.78	0.66
1:D:2368:LEU:HD21	1:D:2376:LEU:HB2	1.77	0.66
1:D:4743:MET:HE2	1:D:4748:LEU:HD11	1.78	0.66
1:C:493:ARG:O	1:C:496:VAL:HG12	1.96	0.66
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.28	0.66
1:C:2601:ASP:OD1	1:C:2602:VAL:N	2.29	0.66
1:A:2464:ASP:OD1	1:A:2465:ASP:N	2.28	0.66
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.78	0.66
1:A:4768:LEU:HA	1:A:4771:ILE:HD12	1.78	0.66
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.28	0.66
1:B:3842:LEU:HD13	1:B:3933:PHE:CE2	2.31	0.66
1:D:231:LEU:HD11	1:D:245:VAL:HG12	1.78	0.66
1:C:1931:LEU:HD12	1:C:1939:MET:HE1	1.76	0.66
1:C:2520:HIS:O	1:C:2524:VAL:HG22	1.95	0.66
1:C:4768:LEU:HA	1:C:4771:ILE:HD12	1.78	0.66
1:A:231:LEU:HD11	1:A:245:VAL:HG12	1.78	0.66
1:A:3285:TRP:NE1	1:A:3290:GLU:OE1	2.28	0.66
2:E:84:ALA:HA	2:E:94:HIS:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:SER:OG	1:B:188:GLU:O	2.14	0.66
1:B:4041:ALA:O	1:B:4045:VAL:HG23	1.95	0.66
1:C:1577:ALA:O	1:C:1584:ARG:NH1	2.26	0.66
1:C:3247:ASP:OD1	1:C:3248:ARG:N	2.29	0.66
1:A:2790:MET:SD	1:A:2791:LEU:HD22	2.36	0.66
2:H:84:ALA:HA	2:H:94:HIS:CE1	2.31	0.66
1:D:3842:LEU:HD13	1:D:3933:PHE:CE2	2.31	0.66
1:A:1641:ILE:HD11	1:A:1648:MET:HE3	1.78	0.65
1:A:1950:GLU:OE2	1:A:2041:HIS:NE2	2.30	0.65
1:B:857:ASP:OD1	1:B:859:VAL:HG22	1.95	0.65
1:B:2520:HIS:O	1:B:2524:VAL:HG22	1.95	0.65
1:B:2667:THR:OG1	1:B:2671:GLU:OE2	2.07	0.65
1:D:493:ARG:O	1:D:496:VAL:HG12	1.96	0.65
1:C:2368:LEU:HD21	1:C:2376:LEU:HB2	1.77	0.65
1:A:2932:MET:HG3	1:A:2933:ASN:N	2.10	0.65
1:B:2601:ASP:OD1	1:B:2602:VAL:N	2.29	0.65
1:B:2790:MET:SD	1:B:2791:LEU:HD22	2.36	0.65
1:B:3247:ASP:OD1	1:B:3248:ARG:N	2.29	0.65
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.78	0.65
1:B:3955:MET:HE1	1:B:4016:LEU:CA	2.25	0.65
1:D:2601:ASP:OD1	1:D:2602:VAL:N	2.29	0.65
1:D:2687:ALA:HB1	1:D:2966:TRP:CH2	2.31	0.65
1:D:2758:PHE:O	1:D:2762:THR:OG1	2.10	0.65
1:D:3285:TRP:NE1	1:D:3290:GLU:OE1	2.28	0.65
1:D:4768:LEU:HA	1:D:4771:ILE:HD12	1.78	0.65
1:C:1950:GLU:OE2	1:C:2041:HIS:NE2	2.30	0.65
1:C:2687:ALA:HB1	1:C:2966:TRP:CH2	2.31	0.65
1:A:2601:ASP:OD1	1:A:2602:VAL:N	2.29	0.65
1:A:3354:LEU:HD12	1:A:3415:TYR:CE2	2.31	0.65
1:B:1950:GLU:OE2	1:B:2041:HIS:NE2	2.30	0.65
1:B:2878:LEU:HG	1:B:2882:TYR:CZ	2.32	0.65
1:B:3354:LEU:HD12	1:B:3415:TYR:CE2	2.31	0.65
1:D:2878:LEU:HG	1:D:2882:TYR:CZ	2.32	0.65
1:D:4577:LEU:HD21	1:D:4807:PHE:HD1	1.61	0.65
1:C:1641:ILE:HD11	1:C:1648:MET:HE3	1.78	0.65
1:C:3354:LEU:HD12	1:C:3415:TYR:CE2	2.32	0.65
1:B:493:ARG:O	1:B:496:VAL:HG12	1.96	0.65
1:B:1255:TYR:O	1:B:1275:ARG:NH2	2.30	0.65
1:B:4768:LEU:HA	1:B:4771:ILE:HD12	1.78	0.65
1:D:1084:GLN:NE2	1:D:1186:ASP:O	2.30	0.65
1:C:4041:ALA:O	1:C:4045:VAL:HG23	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2878:LEU:HG	1:A:2882:TYR:CZ	2.32	0.65
1:B:1641:ILE:HD11	1:B:1648:MET:HE3	1.78	0.65
1:B:4577:LEU:HD21	1:B:4807:PHE:HD1	1.60	0.65
1:D:1950:GLU:OE2	1:D:2041:HIS:NE2	2.30	0.65
1:D:2538:THR:O	1:D:2542:SER:N	2.30	0.65
1:D:4041:ALA:O	1:D:4045:VAL:HG23	1.95	0.65
1:A:1255:TYR:O	1:A:1275:ARG:NH2	2.30	0.65
2:H:1:GLY:O	2:H:3:GLN:NE2	2.30	0.65
1:B:1527:MET:HE2	1:B:1542:VAL:HG13	1.79	0.65
1:D:1109:LEU:HD21	1:D:1115:LEU:CD2	2.27	0.65
1:D:2520:HIS:O	1:D:2524:VAL:HG22	1.95	0.65
1:D:3566:SER:OG	1:D:3568:SER:OG	1.98	0.65
1:D:4219:PHE:O	1:D:4223:ASN:ND2	2.29	0.65
1:A:2593:ARG:O	1:A:2594:SER:OG	2.14	0.65
1:A:3379:LEU:HD13	1:A:3391:GLU:OE1	1.97	0.65
1:B:2816:MET:HG2	1:B:2878:LEU:HD11	1.79	0.65
1:B:4007:SER:OG	1:B:4131:ARG:NH1	2.30	0.65
1:D:186:SER:OG	1:D:188:GLU:O	2.14	0.65
1:D:2790:MET:SD	1:D:2791:LEU:HD22	2.36	0.65
1:D:3427:PRO:HD3	1:D:3579:LEU:HD21	1.79	0.65
1:A:1527:MET:HE2	1:A:1542:VAL:HG13	1.79	0.65
1:A:2816:MET:HG2	1:A:2878:LEU:HD11	1.79	0.65
1:B:162:LYS:O	1:B:164:ARG:NH1	2.30	0.65
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.28	0.65
1:D:4007:SER:OG	1:D:4131:ARG:NH1	2.30	0.65
1:C:2816:MET:HG2	1:C:2878:LEU:HD11	1.79	0.65
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.77	0.65
1:A:186:SER:OG	1:A:188:GLU:O	2.14	0.65
1:B:2687:ALA:HB1	1:B:2966:TRP:CH2	2.31	0.65
1:D:2816:MET:HG2	1:D:2878:LEU:HD11	1.79	0.65
1:C:231:LEU:HD11	1:C:245:VAL:HG12	1.78	0.65
1:C:1084:GLN:NE2	1:C:1186:ASP:O	2.30	0.65
1:C:1109:LEU:HD21	1:C:1115:LEU:CD2	2.27	0.65
1:C:2593:ARG:O	1:C:2594:SER:OG	2.14	0.65
1:B:1084:GLN:NE2	1:B:1186:ASP:O	2.30	0.65
1:B:2577:ILE:HG13	1:B:2578:MET:SD	2.38	0.65
1:B:3427:PRO:HD3	1:B:3579:LEU:HD21	1.79	0.65
1:D:3410:PRO:HB3	1:D:3469:PHE:HE2	1.61	0.65
1:A:683:ARG:NH1	1:A:707:VAL:O	2.29	0.64
1:A:1008:SER:OG	1:A:1010:VAL:O	2.09	0.64
1:A:2687:ALA:HB1	1:A:2966:TRP:CH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1:GLY:O	2:E:3:GLN:NE2	2.30	0.64
1:B:2932:MET:HG3	1:B:2933:ASN:N	2.10	0.64
1:D:881:LEU:O	1:D:885:THR:HG23	1.97	0.64
1:C:3410:PRO:HB3	1:C:3469:PHE:HE2	1.61	0.64
1:A:2538:THR:O	1:A:2542:SER:N	2.30	0.64
1:B:881:LEU:O	1:B:885:THR:HG23	1.97	0.64
1:B:2598:ALA:O	1:B:2602:VAL:HG23	1.97	0.64
1:B:4219:PHE:O	1:B:4223:ASN:ND2	2.29	0.64
1:C:162:LYS:O	1:C:164:ARG:NH1	2.30	0.64
1:C:2538:THR:O	1:C:2542:SER:N	2.30	0.64
1:C:2577:ILE:HG13	1:C:2578:MET:SD	2.38	0.64
1:A:881:LEU:O	1:A:885:THR:HG23	1.97	0.64
2:F:1:GLY:O	2:F:3:GLN:NE2	2.30	0.64
1:B:2758:PHE:CE2	1:B:2809:ILE:HD12	2.33	0.64
1:D:1527:MET:HE2	1:D:1542:VAL:HG13	1.79	0.64
1:D:2598:ALA:O	1:D:2602:VAL:HG23	1.97	0.64
1:D:2758:PHE:CE2	1:D:2809:ILE:HD12	2.33	0.64
1:D:3354:LEU:HD12	1:D:3415:TYR:CE2	2.31	0.64
1:C:2758:PHE:CE2	1:C:2809:ILE:HD12	2.33	0.64
1:C:2790:MET:SD	1:C:2791:LEU:HD22	2.36	0.64
1:A:1109:LEU:HD21	1:A:1115:LEU:CD2	2.27	0.64
1:A:3410:PRO:HB3	1:A:3469:PHE:HE2	1.61	0.64
1:A:4007:SER:OG	1:A:4131:ARG:NH1	2.30	0.64
1:A:4219:PHE:O	1:A:4223:ASN:ND2	2.29	0.64
1:B:1441:ALA:N	1:B:1513:ASP:OD1	2.31	0.64
1:B:2258:LEU:C	1:B:2297:LYS:HZ3	2.04	0.64
1:D:2577:ILE:HG13	1:D:2578:MET:SD	2.38	0.64
1:D:4231:MET:O	1:D:4235:VAL:HG23	1.98	0.64
1:C:1527:MET:HE2	1:C:1542:VAL:HG13	1.79	0.64
2:G:34:LYS:HE2	1:C:629:ARG:HB2	1.78	0.64
1:B:231:LEU:HD11	1:B:245:VAL:HG12	1.78	0.64
1:B:3410:PRO:HB3	1:B:3469:PHE:HE2	1.61	0.64
1:C:2878:LEU:HG	1:C:2882:TYR:CZ	2.32	0.64
1:C:3051:ARG:O	1:C:3053:ARG:NE	2.31	0.64
1:C:4577:LEU:HD21	1:C:4807:PHE:HD1	1.61	0.64
1:A:2758:PHE:CE2	1:A:2809:ILE:HD12	2.33	0.64
1:B:1109:LEU:HD21	1:B:1115:LEU:CD2	2.27	0.64
1:C:881:LEU:O	1:C:885:THR:HG23	1.97	0.64
1:C:1286:MET:HE2	1:C:1555:LEU:HD12	1.79	0.64
1:C:4007:SER:OG	1:C:4131:ARG:NH1	2.30	0.64
1:A:2577:ILE:HG13	1:A:2578:MET:SD	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4231:MET:O	1:A:4235:VAL:HG23	1.98	0.64
1:B:2974:ILE:CD1	1:B:3049:LEU:HD12	2.28	0.64
1:D:1286:MET:HE2	1:D:1555:LEU:HD12	1.79	0.64
1:D:3247:ASP:OD1	1:D:3248:ARG:N	2.29	0.64
1:D:3842:LEU:HD13	1:D:3933:PHE:CD2	2.33	0.64
1:C:23:GLN:OE1	1:C:35:LEU:N	2.31	0.64
1:C:2598:ALA:O	1:C:2602:VAL:HG23	1.97	0.64
1:C:3379:LEU:HD13	1:C:3391:GLU:OE1	1.97	0.64
1:C:4219:PHE:O	1:C:4223:ASN:ND2	2.29	0.64
1:A:1084:GLN:NE2	1:A:1186:ASP:O	2.30	0.64
1:A:2667:THR:HG21	1:A:2672:LEU:HD11	1.80	0.64
1:A:3479:ALA:HB1	1:B:1141:ARG:HB3	1.79	0.64
2:G:1:GLY:O	2:G:3:GLN:NE2	2.30	0.64
1:B:3842:LEU:HD13	1:B:3933:PHE:CD2	2.33	0.64
1:D:23:GLN:OE1	1:D:35:LEU:N	2.31	0.64
1:C:2667:THR:HG21	1:C:2672:LEU:HD11	1.80	0.64
1:A:1141:ARG:HB3	1:D:3479:ALA:HB1	1.80	0.64
1:A:1286:MET:HE2	1:A:1555:LEU:HD12	1.79	0.64
1:A:1425:GLU:OE2	1:A:1429:ASN:ND2	2.31	0.64
1:A:2598:ALA:O	1:A:2602:VAL:HG23	1.97	0.64
1:A:3051:ARG:O	1:A:3053:ARG:NE	2.31	0.64
1:B:697:GLY:HA2	1:B:1636:MET:SD	2.37	0.64
1:D:162:LYS:O	1:D:164:ARG:NH1	2.30	0.64
1:D:1425:GLU:OE2	1:D:1429:ASN:ND2	2.31	0.64
1:D:3379:LEU:HD13	1:D:3391:GLU:OE1	1.97	0.64
1:C:56:GLN:O	1:C:309:THR:OG1	2.16	0.64
1:C:3427:PRO:HD3	1:C:3579:LEU:HD21	1.78	0.64
1:C:4231:MET:O	1:C:4235:VAL:HG23	1.98	0.64
1:B:1286:MET:HE2	1:B:1555:LEU:HD12	1.79	0.64
1:B:2593:ARG:O	1:B:2594:SER:OG	2.14	0.64
1:B:3310:ASP:OD1	1:B:3311:HIS:N	2.31	0.64
1:B:3955:MET:CE	1:B:4016:LEU:HA	2.28	0.64
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.78	0.64
1:B:2512:ILE:HG21	1:B:2565:CYS:SG	2.38	0.63
1:B:2667:THR:HG21	1:B:2672:LEU:HD11	1.80	0.63
1:D:2667:THR:HG21	1:D:2672:LEU:HD11	1.80	0.63
1:D:2667:THR:OG1	1:D:2671:GLU:OE2	2.07	0.63
1:C:1425:GLU:OE2	1:C:1429:ASN:ND2	2.31	0.63
1:A:162:LYS:O	1:A:164:ARG:NH1	2.30	0.63
1:A:3427:PRO:HD3	1:A:3579:LEU:HD21	1.78	0.63
1:A:3479:ALA:HB1	1:B:1141:ARG:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4827:LEU:O	1:A:4831:THR:HG23	1.99	0.63
1:B:56:GLN:O	1:B:309:THR:OG1	2.16	0.63
1:B:3283:ARG:HG2	1:B:3287:ARG:HH22	1.63	0.63
1:C:697:GLY:HA2	1:C:1636:MET:SD	2.37	0.63
1:C:2974:ILE:CD1	1:C:3049:LEU:HD12	2.28	0.63
1:C:3283:ARG:HG2	1:C:3287:ARG:HH22	1.63	0.63
1:A:697:GLY:HA2	1:A:1636:MET:SD	2.37	0.63
1:A:2512:ILE:HG21	1:A:2565:CYS:SG	2.38	0.63
1:B:3379:LEU:HD13	1:B:3391:GLU:OE1	1.97	0.63
1:B:4231:MET:O	1:B:4235:VAL:HG23	1.98	0.63
1:D:4559:PHE:HA	1:D:4562:LEU:HD12	1.81	0.63
1:C:683:ARG:NH1	1:C:707:VAL:O	2.29	0.63
1:C:3842:LEU:HD13	1:C:3933:PHE:CD2	2.33	0.63
1:A:2675:THR:CG2	1:A:2710:LEU:HD21	2.29	0.63
1:B:23:GLN:OE1	1:B:35:LEU:N	2.31	0.63
1:B:1425:GLU:OE2	1:B:1429:ASN:ND2	2.31	0.63
1:B:2675:THR:CG2	1:B:2710:LEU:HD21	2.29	0.63
1:B:3051:ARG:O	1:B:3053:ARG:NE	2.31	0.63
1:D:3223:SER:N	1:D:3226:GLU:OE2	2.32	0.63
1:C:3955:MET:CE	1:C:4016:LEU:HA	2.28	0.63
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.32	0.63
1:A:2974:ILE:CD1	1:A:3049:LEU:HD12	2.28	0.63
1:A:3842:LEU:HD13	1:A:3933:PHE:CD2	2.33	0.63
1:A:3844:LEU:HD13	1:B:76:ARG:NH1	2.14	0.63
1:B:1424:PRO:O	1:B:1428:LEU:HD23	1.99	0.63
1:B:3230:LEU:HD12	1:B:3230:LEU:O	1.99	0.63
1:D:1441:ALA:N	1:D:1513:ASP:OD1	2.30	0.63
1:C:3230:LEU:HD12	1:C:3230:LEU:O	1.99	0.63
1:C:3720:TYR:HA	1:C:3723:MET:HE3	1.81	0.63
1:C:4827:LEU:O	1:C:4831:THR:HG23	1.99	0.63
1:A:1441:ALA:N	1:A:1513:ASP:OD1	2.31	0.63
1:A:3223:SER:N	1:A:3226:GLU:OE2	2.32	0.63
1:A:3955:MET:CE	1:A:4016:LEU:HA	2.28	0.63
1:B:2538:THR:O	1:B:2542:SER:N	2.30	0.63
1:D:1109:LEU:HD21	1:D:1115:LEU:HD21	1.81	0.63
1:D:2230:THR:HG23	1:D:2270:SER:HB2	1.80	0.63
1:D:4577:LEU:HD21	1:D:4807:PHE:CD1	2.34	0.63
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.28	0.63
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.32	0.63
1:A:1109:LEU:HD21	1:A:1115:LEU:HD21	1.81	0.63
1:A:2244:ARG:N	1:A:3861:GLU:OE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:79:ASP:OD1	2:H:80:TYR:N	2.32	0.63
1:B:2215:LEU:HD23	1:B:2223:ILE:CD1	2.29	0.63
1:B:4577:LEU:HD21	1:B:4807:PHE:CD1	2.34	0.63
1:D:697:GLY:HA2	1:D:1636:MET:SD	2.37	0.63
1:D:3230:LEU:HD12	1:D:3230:LEU:O	1.99	0.63
1:C:2230:THR:HG23	1:C:2270:SER:HB2	1.81	0.63
1:C:4559:PHE:HA	1:C:4562:LEU:HD12	1.81	0.63
1:A:23:GLN:OE1	1:A:35:LEU:N	2.31	0.63
1:A:3230:LEU:HD12	1:A:3230:LEU:O	1.99	0.63
1:A:3720:TYR:HA	1:A:3723:MET:HE3	1.81	0.63
1:B:399:GLN:O	1:B:403:MET:HG3	1.99	0.63
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.28	0.63
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.32	0.63
1:D:4827:LEU:O	1:D:4831:THR:HG23	1.99	0.63
1:C:993:HIS:NE2	1:C:1022:VAL:O	2.30	0.63
1:C:2215:LEU:HD23	1:C:2223:ILE:CD1	2.29	0.63
1:C:2512:ILE:HG21	1:C:2565:CYS:SG	2.38	0.63
1:A:2215:LEU:HD23	1:A:2223:ILE:CD1	2.29	0.63
1:A:3414:ARG:HD2	1:A:3473:ASP:OD2	1.99	0.63
1:B:3720:TYR:HA	1:B:3723:MET:HE3	1.81	0.63
1:D:2675:THR:CG2	1:D:2710:LEU:HD21	2.29	0.63
1:C:3310:ASP:OD1	1:C:3311:HIS:N	2.31	0.63
1:A:399:GLN:O	1:A:403:MET:HG3	1.99	0.62
1:B:4936:ILE:HG22	1:B:4940:PHE:CE2	2.34	0.62
1:D:3720:TYR:HA	1:D:3723:MET:HE3	1.81	0.62
1:C:399:GLN:O	1:C:403:MET:HG3	1.99	0.62
1:C:981:GLN:OE1	1:C:981:GLN:N	2.32	0.62
1:A:156:GLN:OE1	1:A:157:ARG:NH1	2.32	0.62
1:A:4052:SER:O	1:A:4055:VAL:N	2.32	0.62
1:A:4577:LEU:HD21	1:A:4807:PHE:CD1	2.34	0.62
2:G:49:MET:HG3	2:G:52:LYS:NZ	2.15	0.62
2:F:49:MET:HG3	2:F:52:LYS:NZ	2.15	0.62
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.32	0.62
1:B:3414:ARG:HD2	1:B:3473:ASP:OD2	1.99	0.62
1:D:56:GLN:O	1:D:309:THR:OG1	2.16	0.62
1:D:3310:ASP:OD1	1:D:3311:HIS:N	2.31	0.62
1:D:4978:HIS:ND1	1:D:4982:GLU:OE1	2.32	0.62
1:C:4052:SER:O	1:C:4055:VAL:N	2.32	0.62
1:A:2674:LEU:HD23	1:A:2677:LYS:HZ1	1.63	0.62
1:B:981:GLN:N	1:B:981:GLN:OE1	2.32	0.62
1:B:4559:PHE:HA	1:B:4562:LEU:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4827:LEU:O	1:B:4831:THR:HG23	1.99	0.62
1:D:1424:PRO:O	1:D:1428:LEU:HD23	1.99	0.62
1:D:3051:ARG:O	1:D:3053:ARG:NE	2.31	0.62
1:D:3225:ARG:O	1:D:3228:ALA:HB3	2.00	0.62
1:D:3283:ARG:HG2	1:D:3287:ARG:HH22	1.63	0.62
1:C:156:GLN:OE1	1:C:157:ARG:NH1	2.32	0.62
1:C:3414:ARG:HD2	1:C:3473:ASP:OD2	1.99	0.62
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.32	0.62
1:A:4936:ILE:HG22	1:A:4940:PHE:CE2	2.34	0.62
1:B:173:SER:OG	1:B:176:SER:OG	1.88	0.62
1:D:156:GLN:OE1	1:D:157:ARG:NH1	2.32	0.62
1:D:2512:ILE:HG21	1:D:2565:CYS:SG	2.38	0.62
1:C:1109:LEU:HD21	1:C:1115:LEU:HD21	1.81	0.62
1:C:1441:ALA:N	1:C:1513:ASP:OD1	2.30	0.62
1:C:3225:ARG:O	1:C:3228:ALA:HB3	1.99	0.62
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.00	0.62
1:C:4577:LEU:HD21	1:C:4807:PHE:CD1	2.34	0.62
1:C:4936:ILE:HG22	1:C:4940:PHE:CE2	2.34	0.62
1:A:1424:PRO:O	1:A:1428:LEU:HD23	1.99	0.62
1:B:156:GLN:OE1	1:B:157:ARG:NH1	2.32	0.62
1:D:2215:LEU:HD23	1:D:2223:ILE:CD1	2.29	0.62
1:D:3414:ARG:HD2	1:D:3473:ASP:OD2	1.99	0.62
1:D:3955:MET:CE	1:D:4016:LEU:HA	2.28	0.62
1:D:4936:ILE:HG22	1:D:4940:PHE:CE2	2.34	0.62
1:C:2244:ARG:N	1:C:3861:GLU:OE1	2.32	0.62
1:C:2675:THR:CG2	1:C:2710:LEU:HD21	2.29	0.62
1:A:56:GLN:O	1:A:309:THR:OG1	2.16	0.62
1:A:2230:THR:HG23	1:A:2270:SER:HB2	1.81	0.62
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.00	0.62
2:H:49:MET:HG3	2:H:52:LYS:NZ	2.15	0.62
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.32	0.62
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.00	0.62
1:B:4052:SER:O	1:B:4055:VAL:N	2.32	0.62
1:D:1141:ARG:CB	1:C:3479:ALA:HB1	2.29	0.62
1:D:2244:ARG:N	1:D:3861:GLU:OE1	2.32	0.62
1:A:3310:ASP:OD1	1:A:3311:HIS:N	2.31	0.62
2:H:25:HIS:HB3	2:H:102:GLU:OE2	1.99	0.62
1:B:1109:LEU:HD21	1:B:1115:LEU:HD21	1.81	0.62
1:D:399:GLN:O	1:D:403:MET:HG3	1.99	0.62
1:D:1263:THR:OG1	1:D:1265:ASP:OD1	2.13	0.62
1:D:2294:ASP:O	1:D:2298:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3324:VAL:CG1	1:D:3361:THR:HG22	2.30	0.62
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.00	0.62
1:D:4052:SER:O	1:D:4055:VAL:N	2.32	0.62
1:D:4745:LEU:O	1:D:4749:GLU:OE1	2.17	0.62
1:C:3566:SER:OG	1:C:3568:SER:OG	1.98	0.62
1:A:3225:ARG:O	1:A:3228:ALA:HB3	2.00	0.62
2:E:49:MET:HG3	2:E:52:LYS:NZ	2.15	0.62
2:H:34:LYS:HE2	1:D:629:ARG:HB2	1.82	0.62
1:B:3225:ARG:O	1:B:3228:ALA:HB3	1.99	0.62
1:D:2974:ILE:CD1	1:D:3049:LEU:HD12	2.28	0.62
1:A:1680:ARG:HG2	1:A:1797:ARG:HD3	1.82	0.62
1:A:4736:ARG:NH2	1:D:4079:ASP:OD2	2.33	0.62
1:B:1008:SER:OG	1:B:1010:VAL:O	2.09	0.62
1:B:4978:HIS:ND1	1:B:4982:GLU:OE1	2.32	0.62
1:D:1255:TYR:O	1:D:1275:ARG:NH2	2.30	0.62
1:C:1570:LYS:O	1:C:1572:ILE:HD12	2.00	0.62
1:C:3324:VAL:CG1	1:C:3361:THR:HG22	2.30	0.62
1:C:3779:VAL:HG13	1:C:3797:THR:CG2	2.30	0.62
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.00	0.62
1:A:3102:ASP:O	1:A:3106:MET:HG2	2.00	0.62
1:A:4978:HIS:ND1	1:A:4982:GLU:OE1	2.32	0.62
2:F:34:LYS:HE2	1:B:629:ARG:HB2	1.82	0.62
2:F:79:ASP:OD1	2:F:80:TYR:N	2.32	0.62
1:B:875:ALA:CB	1:B:922:LEU:HD22	2.30	0.62
1:D:1570:LYS:O	1:D:1572:ILE:HD12	2.00	0.62
1:C:1424:PRO:O	1:C:1428:LEU:HD23	1.99	0.62
1:C:3223:SER:N	1:C:3226:GLU:OE2	2.32	0.62
2:E:79:ASP:OD1	2:E:80:TYR:N	2.32	0.61
1:B:1680:ARG:HG2	1:B:1797:ARG:HD3	1.82	0.61
1:B:2230:THR:HG23	1:B:2270:SER:HB2	1.80	0.61
1:D:214:VAL:HG22	1:D:341:TYR:CD2	2.35	0.61
1:A:214:VAL:HG22	1:A:341:TYR:CD2	2.35	0.61
1:A:981:GLN:OE1	1:A:981:GLN:N	2.32	0.61
1:A:993:HIS:NE2	1:A:1022:VAL:O	2.30	0.61
1:A:3283:ARG:HG2	1:A:3287:ARG:HH22	1.63	0.61
1:A:4559:PHE:HA	1:A:4562:LEU:HD12	1.81	0.61
1:B:2516:ASP:OD1	1:B:2517:PHE:N	2.33	0.61
1:B:3779:VAL:HG13	1:B:3797:THR:CG2	2.30	0.61
1:D:981:GLN:OE1	1:D:981:GLN:N	2.32	0.61
1:C:2516:ASP:OD1	1:C:2517:PHE:N	2.33	0.61
1:A:4745:LEU:O	1:A:4749:GLU:OE1	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:79:ASP:OD1	2:G:80:TYR:N	2.32	0.61
2:F:49:MET:HG3	2:F:52:LYS:HZ1	1.65	0.61
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.32	0.61
1:B:179:TYR:N	1:B:194:SER:O	2.33	0.61
1:D:3779:VAL:HG13	1:D:3797:THR:CG2	2.30	0.61
1:C:1579:MET:CE	1:C:1580:PHE:CE1	2.83	0.61
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.32	0.61
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.00	0.61
1:A:1570:LYS:O	1:A:1572:ILE:HD12	2.00	0.61
1:A:2223:ILE:HG23	1:A:2223:ILE:O	2.01	0.61
1:B:1570:LYS:O	1:B:1572:ILE:HD12	2.00	0.61
1:B:4745:LEU:O	1:B:4749:GLU:OE1	2.17	0.61
1:D:939:VAL:HG23	1:D:1053:ILE:CD1	2.30	0.61
1:D:2768:PHE:HB2	1:D:2857:PRO:HG3	1.83	0.61
1:D:3842:LEU:HD22	1:D:3933:PHE:CE2	2.36	0.61
1:C:1579:MET:HE2	1:C:1580:PHE:HE1	1.65	0.61
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.28	0.61
1:A:2768:PHE:HB2	1:A:2857:PRO:HG3	1.83	0.61
1:A:3842:LEU:HD22	1:A:3933:PHE:CE2	2.36	0.61
2:E:25:HIS:HB3	2:E:102:GLU:OE2	1.99	0.61
1:B:514:SER:O	1:B:518:ILE:HD12	2.01	0.61
1:B:1579:MET:HE2	1:B:1580:PHE:HE1	1.65	0.61
1:B:1579:MET:CE	1:B:1580:PHE:CE1	2.83	0.61
1:B:2420:HIS:ND1	1:B:2491:SER:O	2.34	0.61
1:B:2768:PHE:HB2	1:B:2857:PRO:HG3	1.83	0.61
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	1.82	0.61
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.34	0.61
1:C:179:TYR:N	1:C:194:SER:O	2.33	0.61
1:C:659:TYR:OH	1:C:807:GLY:O	2.11	0.61
1:C:939:VAL:HG23	1:C:1053:ILE:CD1	2.30	0.61
1:C:2768:PHE:HB2	1:C:2857:PRO:HG3	1.83	0.61
1:C:3102:ASP:O	1:C:3106:MET:HG2	2.00	0.61
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.34	0.61
1:A:131:LEU:HD22	1:D:2460:LEU:HD23	1.81	0.61
1:A:1720:LEU:HD23	1:A:1851:MET:HE1	1.82	0.61
1:A:2010:LEU:HD21	1:A:3653:PHE:HE1	1.66	0.61
1:B:2010:LEU:HD21	1:B:3653:PHE:HE1	1.66	0.61
1:B:3102:ASP:O	1:B:3106:MET:HG2	2.00	0.61
1:D:1720:LEU:HD23	1:D:1851:MET:HE1	1.82	0.61
1:D:3102:ASP:O	1:D:3106:MET:HG2	2.00	0.61
1:C:4745:LEU:O	1:C:4749:GLU:OE1	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.00	0.61
1:A:2906:VAL:HG23	1:A:2911:LEU:HD23	1.83	0.61
1:A:3106:MET:HE2	1:A:3106:MET:N	2.16	0.61
2:G:49:MET:HG3	2:G:52:LYS:HZ1	1.65	0.61
1:B:3479:ALA:HB1	1:C:1141:ARG:CB	2.30	0.61
1:C:875:ALA:CB	1:C:922:LEU:HD22	2.30	0.61
1:C:1255:TYR:O	1:C:1275:ARG:NH2	2.30	0.61
1:A:1069:TRP:CH2	1:A:1112:ASP:CB	2.84	0.61
1:A:1157:GLU:OE1	1:A:1157:GLU:N	2.34	0.61
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.82	0.61
1:B:1069:TRP:CH2	1:B:1112:ASP:CB	2.84	0.61
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.00	0.61
1:D:2906:VAL:HG23	1:D:2911:LEU:HD23	1.83	0.61
1:D:3568:SER:O	1:D:3572:GLN:OE1	2.19	0.61
1:C:214:VAL:HG22	1:C:341:TYR:CD2	2.35	0.61
1:A:294:THR:O	1:A:298:GLY:N	2.34	0.61
1:A:939:VAL:HG23	1:A:1053:ILE:CD1	2.30	0.61
1:A:1579:MET:CE	1:A:1580:PHE:CE1	2.83	0.61
1:A:2612[B]:ARG:CZ	1:A:2612[B]:ARG:HB2	2.31	0.61
1:A:3779:VAL:HG13	1:A:3797:THR:CG2	2.30	0.61
2:F:25:HIS:HB3	2:F:102:GLU:OE2	1.99	0.61
1:B:214:VAL:HG22	1:B:341:TYR:CD2	2.35	0.61
1:B:294:THR:O	1:B:298:GLY:N	2.34	0.61
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.34	0.61
1:D:875:ALA:CB	1:D:922:LEU:HD22	2.30	0.61
1:D:1157:GLU:OE1	1:D:1157:GLU:N	2.34	0.61
1:D:2420:HIS:ND1	1:D:2491:SER:O	2.34	0.61
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.01	0.61
1:C:2010:LEU:HD21	1:C:3653:PHE:HE1	1.66	0.61
1:C:3106:MET:N	1:C:3106:MET:HE2	2.16	0.61
1:A:2420:HIS:ND1	1:A:2491:SER:O	2.34	0.60
1:A:3324:VAL:CG1	1:A:3361:THR:HG22	2.30	0.60
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.34	0.60
1:A:4655:PHE:CA	1:A:4796:MET:HE1	2.31	0.60
1:B:1430:THR:HG22	1:B:1432:THR:H	1.66	0.60
1:B:4655:PHE:CA	1:B:4796:MET:HE1	2.31	0.60
1:D:683:ARG:NH1	1:D:707:VAL:O	2.29	0.60
1:D:1430:THR:HG22	1:D:1432:THR:H	1.66	0.60
1:D:3729:MET:HE3	1:D:3770:LEU:HD22	1.83	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:HG2	1.83	0.60
1:A:2706:ILE:O	1:A:2710:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:25:HIS:HB3	2:G:102:GLU:OE2	1.99	0.60
1:B:939:VAL:HG23	1:B:1053:ILE:CD1	2.30	0.60
1:B:3020:THR:OG1	1:B:3023:LYS:O	2.07	0.60
1:B:3842:LEU:HD22	1:B:3933:PHE:CE2	2.36	0.60
1:B:4097:MET:HE2	1:B:4097:MET:HA	1.83	0.60
1:D:893:TYR:HB3	1:D:962:SER:OG	2.02	0.60
1:D:1141:ARG:HB3	1:C:3479:ALA:HB1	1.83	0.60
1:D:2612[B]:ARG:CZ	1:D:2612[B]:ARG:HB2	2.31	0.60
1:D:3930:ILE:HG22	1:D:3995:VAL:HG11	1.82	0.60
1:A:514:SER:O	1:A:518:ILE:HD12	2.01	0.60
1:A:875:ALA:CB	1:A:922:LEU:HD22	2.30	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:CG1	2.31	0.60
1:B:2612[B]:ARG:HB2	1:B:2612[B]:ARG:CZ	2.31	0.60
1:B:4749:GLU:HB3	1:B:4753:HIS:NE2	2.17	0.60
1:D:3157:ILE:HG22	1:D:3162:GLN:CG	2.32	0.60
1:C:514:SER:O	1:C:518:ILE:HD12	2.01	0.60
1:C:1069:TRP:CH2	1:C:1112:ASP:CB	2.84	0.60
1:C:2612[B]:ARG:CZ	1:C:2612[B]:ARG:HB2	2.31	0.60
1:C:3729:MET:HE3	1:C:3770:LEU:HD22	1.84	0.60
1:A:1579:MET:CE	1:A:1580:PHE:HE1	2.15	0.60
1:A:2516:ASP:OD1	1:A:2517:PHE:N	2.33	0.60
1:A:4749:GLU:HB3	1:A:4753:HIS:NE2	2.17	0.60
1:D:1290:ARG:HD2	1:D:1549:PHE:HB2	1.84	0.60
1:D:1703:LEU:HD23	1:D:1704:PRO:O	2.02	0.60
1:D:2789:PRO:O	1:D:2792:ARG:NH1	2.35	0.60
1:D:2970:SER:HA	1:D:2973:PHE:CD1	2.36	0.60
1:C:1157:GLU:OE1	1:C:1157:GLU:N	2.34	0.60
1:C:2970:SER:HA	1:C:2973:PHE:CD1	2.36	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:CG	2.32	0.60
1:C:3842:LEU:HD22	1:C:3933:PHE:CE2	2.36	0.60
1:C:4749:GLU:HB3	1:C:4753:HIS:NE2	2.17	0.60
1:A:179:TYR:N	1:A:194:SER:O	2.33	0.60
1:A:1236:THR:OG1	1:A:1608:MET:SD	2.54	0.60
1:A:2744:ASN:OD1	1:A:2745:VAL:N	2.35	0.60
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.01	0.60
1:B:357:LEU:HD12	1:B:377:ILE:O	2.02	0.60
1:B:2244:ARG:N	1:B:3861:GLU:OE1	2.32	0.60
1:B:2294:ASP:O	1:B:2298:VAL:HG23	2.00	0.60
1:B:3157:ILE:HG22	1:B:3162:GLN:CG	2.32	0.60
1:B:3324:VAL:CG1	1:B:3361:THR:HG22	2.30	0.60
1:D:744:VAL:HG22	1:D:759:ILE:CD1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2010:LEU:HD21	1:D:3653:PHE:HE1	1.66	0.60
1:C:125:ARG:NH2	1:C:191:VAL:O	2.32	0.60
1:C:2667:THR:OG1	1:C:2671:GLU:OE2	2.07	0.60
1:C:3614:LYS:O	1:C:3617:LYS:HG2	2.02	0.60
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.82	0.60
1:C:3980:LEU:O	1:C:3983:SER:OG	2.18	0.60
1:A:2970:SER:HA	1:A:2973:PHE:CD1	2.36	0.60
1:D:1069:TRP:CH2	1:D:1112:ASP:CB	2.84	0.60
1:D:1579:MET:CE	1:D:1580:PHE:CE1	2.83	0.60
1:C:1290:ARG:HD2	1:C:1549:PHE:HB2	1.84	0.60
1:C:1680:ARG:HG2	1:C:1797:ARG:HD3	1.82	0.60
1:C:2420:HIS:ND1	1:C:2491:SER:O	2.34	0.60
1:C:2744:ASN:OD1	1:C:2745:VAL:N	2.35	0.60
1:A:346:CYS:O	1:A:388:LEU:HD23	2.02	0.60
1:A:893:TYR:HB3	1:A:962:SER:OG	2.02	0.60
1:A:1430:THR:HG22	1:A:1432:THR:H	1.66	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:CG	2.32	0.60
1:B:426:ARG:NE	1:B:429:GLY:O	2.35	0.60
1:B:3568:SER:O	1:B:3572:GLN:OE1	2.19	0.60
1:D:2477:PRO:HD3	1:D:2546:MET:HE3	1.84	0.60
1:D:3546:ASP:C	1:D:3550:ARG:HE	2.10	0.60
1:D:4749:GLU:HB3	1:D:4753:HIS:NE2	2.17	0.60
1:C:357:LEU:HD12	1:C:377:ILE:O	2.02	0.60
1:C:1720:LEU:HD23	1:C:1851:MET:HE1	1.82	0.60
1:B:28:VAL:HG23	1:B:29:LEU:CD2	2.32	0.60
1:B:1720:LEU:HD23	1:B:1851:MET:HE1	1.82	0.60
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.00	0.60
1:B:2970:SER:HA	1:B:2973:PHE:CD1	2.36	0.60
1:B:3573:MET:HG3	1:B:3577:ARG:HE	1.67	0.60
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.01	0.60
1:D:1579:MET:CE	1:D:1580:PHE:HE1	2.15	0.60
1:D:2516:ASP:OD1	1:D:2517:PHE:N	2.33	0.60
1:D:3410:PRO:HB3	1:D:3469:PHE:CE2	2.37	0.60
1:D:4655:PHE:CA	1:D:4796:MET:HE1	2.31	0.60
1:C:28:VAL:HG23	1:C:29:LEU:CD2	2.32	0.60
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.00	0.60
1:C:3343:GLN:O	1:C:3346:VAL:HG12	2.02	0.60
1:A:1579:MET:HE2	1:A:1580:PHE:HE1	1.65	0.60
1:A:2527:LEU:HG	1:A:2531:ARG:HE	1.66	0.60
1:A:3671:ASP:OD1	1:A:3672:ARG:N	2.35	0.60
1:B:744:VAL:HG22	1:B:759:ILE:CD1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1579:MET:CE	1:B:1580:PHE:HE1	2.15	0.60
1:B:2285:GLU:OE2	1:B:3853:ALA:HB1	2.02	0.60
1:D:54:ASN:O	1:D:56:GLN:N	2.35	0.60
1:D:346:CYS:O	1:D:388:LEU:HD23	2.02	0.60
1:D:2161:GLN:HB3	1:D:2177:LEU:HD21	1.84	0.60
1:C:1431:THR:O	1:C:1431:THR:HG22	2.02	0.60
1:C:1579:MET:CE	1:C:1580:PHE:HE1	2.15	0.60
1:C:1931:LEU:HD13	1:C:1935:VAL:CG1	2.31	0.60
1:C:2906:VAL:HG23	1:C:2911:LEU:HD23	1.83	0.60
1:C:3386:GLU:O	1:C:3389:GLU:O	2.20	0.60
1:C:3573:MET:HG3	1:C:3577:ARG:HE	1.67	0.60
1:C:4655:PHE:CA	1:C:4796:MET:HE1	2.31	0.60
1:A:744:VAL:HG22	1:A:759:ILE:CD1	2.32	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:HG12	1.83	0.60
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.35	0.60
1:A:2789:PRO:O	1:A:2792:ARG:NH1	2.34	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:HG2	1.84	0.60
1:A:3458:PHE:O	1:A:3462:ASN:ND2	2.32	0.60
2:H:21:THR:N	2:H:107:GLU:O	2.35	0.60
1:B:1157:GLU:OE1	1:B:1157:GLU:N	2.34	0.60
1:B:2789:PRO:O	1:B:2792:ARG:NH1	2.35	0.60
1:B:3106:MET:HE2	1:B:3106:MET:N	2.16	0.60
1:B:3223:SER:N	1:B:3226:GLU:OE2	2.32	0.60
1:D:1931:LEU:HD13	1:D:1935:VAL:CG1	2.31	0.60
1:D:2744:ASN:OD1	1:D:2745:VAL:N	2.35	0.60
1:D:3343:GLN:O	1:D:3346:VAL:HG12	2.02	0.60
1:D:4097:MET:HE2	1:D:4097:MET:HA	1.83	0.60
1:D:4837:LEU:O	1:D:4841:VAL:HG23	2.02	0.60
1:C:2223:ILE:O	1:C:2223:ILE:HG23	2.01	0.60
1:C:2706:ILE:O	1:C:2710:LEU:HD23	2.01	0.60
1:C:3546:ASP:C	1:C:3550:ARG:HE	2.09	0.60
1:C:3729:MET:CE	1:C:3770:LEU:HD22	2.32	0.60
1:A:426:ARG:NE	1:A:429:GLY:O	2.35	0.59
1:A:1069:TRP:HE3	1:A:1603:VAL:HG21	1.67	0.59
1:A:1290:ARG:HD2	1:A:1549:PHE:HB2	1.84	0.59
1:A:2165:LEU:HD11	1:A:2177:LEU:HD22	1.84	0.59
1:A:3283:ARG:HG2	1:A:3287:ARG:HH12	1.67	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3568:SER:O	1:A:3572:GLN:OE1	2.19	0.59
1:B:1290:ARG:HD2	1:B:1549:PHE:HB2	1.84	0.59
1:B:3157:ILE:HG22	1:B:3162:GLN:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:125:ARG:NH2	1:D:191:VAL:O	2.32	0.59
1:D:131:LEU:HD22	1:C:2460:LEU:HD23	1.82	0.59
1:D:1931:LEU:HD13	1:D:1935:VAL:HG12	1.83	0.59
1:D:3106:MET:HE2	1:D:3106:MET:N	2.16	0.59
1:D:3283:ARG:HG2	1:D:3287:ARG:HH12	1.67	0.59
1:C:1430:THR:HG22	1:C:1432:THR:H	1.66	0.59
1:C:1703:LEU:HD23	1:C:1704:PRO:O	2.02	0.59
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.35	0.59
1:A:2285:GLU:OE2	1:A:3853:ALA:HB1	2.02	0.59
1:B:346:CYS:O	1:B:388:LEU:HD23	2.02	0.59
1:B:1069:TRP:HE3	1:B:1603:VAL:HG21	1.67	0.59
1:B:1158:ASN:ND2	1:B:1182:ILE:O	2.34	0.59
1:B:1703:LEU:HD23	1:B:1704:PRO:O	2.02	0.59
1:B:2161:GLN:HB3	1:B:2177:LEU:HD21	1.84	0.59
1:B:2615:ARG:NH1	1:B:2617:SER:OG	2.36	0.59
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.59
1:B:3386:GLU:O	1:B:3389:GLU:O	2.20	0.59
1:B:3546:ASP:C	1:B:3550:ARG:HE	2.09	0.59
1:D:294:THR:O	1:D:298:GLY:N	2.34	0.59
1:D:514:SER:O	1:D:518:ILE:HD12	2.01	0.59
1:D:2527:LEU:HG	1:D:2531:ARG:HE	1.66	0.59
1:D:2615:ARG:NH1	1:D:2617:SER:OG	2.36	0.59
1:C:54:ASN:O	1:C:56:GLN:N	2.35	0.59
1:C:231:LEU:HD13	1:C:247:TYR:CE1	2.38	0.59
1:C:744:VAL:HG22	1:C:759:ILE:CD1	2.32	0.59
1:C:1008:SER:OG	1:C:1010:VAL:O	2.09	0.59
1:C:2789:PRO:O	1:C:2792:ARG:NH1	2.34	0.59
1:A:357:LEU:HD12	1:A:377:ILE:O	2.02	0.59
1:A:1679:ASN:ND2	1:A:1797:ARG:O	2.35	0.59
1:A:3410:PRO:HB3	1:A:3469:PHE:CE2	2.37	0.59
1:B:231:LEU:HD13	1:B:247:TYR:CE1	2.38	0.59
1:B:3729:MET:CE	1:B:3770:LEU:HD22	2.32	0.59
1:D:1186:ASP:OD2	1:D:1187:GLY:N	2.36	0.59
1:D:1680:ARG:HG2	1:D:1797:ARG:HD3	1.82	0.59
1:D:2223:ILE:HG23	1:D:2223:ILE:O	2.01	0.59
1:D:3157:ILE:HG22	1:D:3162:GLN:HG2	1.83	0.59
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.59
1:C:346:CYS:O	1:C:388:LEU:HD23	2.02	0.59
1:C:3568:SER:O	1:C:3572:GLN:OE1	2.19	0.59
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.01	0.59
1:C:4178:LEU:HD23	1:C:4179:GLY:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ASN:O	1:A:56:GLN:N	2.35	0.59
1:A:659:TYR:OH	1:A:807:GLY:O	2.11	0.59
1:A:3343:GLN:O	1:A:3346:VAL:HG12	2.02	0.59
1:A:3614:LYS:O	1:A:3617:LYS:HG2	2.02	0.59
1:A:4178:LEU:HD23	1:A:4179:GLY:N	2.17	0.59
1:B:1931:LEU:HD13	1:B:1935:VAL:CG1	2.31	0.59
1:B:2527:LEU:HG	1:B:2531:ARG:HE	1.66	0.59
1:B:2906:VAL:HG23	1:B:2911:LEU:HD23	1.83	0.59
1:B:3729:MET:HE3	1:B:3770:LEU:HD22	1.83	0.59
1:D:357:LEU:HD12	1:D:377:ILE:O	2.02	0.59
1:D:2706:ILE:O	1:D:2710:LEU:HD23	2.02	0.59
1:C:2285:GLU:OE2	1:C:3853:ALA:HB1	2.02	0.59
1:C:2477:PRO:HD3	1:C:2546:MET:HE3	1.84	0.59
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.59
1:A:1703:LEU:HD23	1:A:1704:PRO:O	2.02	0.59
1:A:3702:VAL:HA	1:A:3778:MET:CE	2.33	0.59
1:B:54:ASN:O	1:B:56:GLN:N	2.34	0.59
1:B:1431:THR:O	1:B:1431:THR:HG22	2.02	0.59
1:B:2460:LEU:HD23	1:C:131:LEU:HD22	1.84	0.59
1:B:2924:GLN:O	1:B:2928:LYS:HG3	2.03	0.59
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.35	0.59
1:D:2285:GLU:OE2	1:D:3853:ALA:HB1	2.02	0.59
1:D:3386:GLU:O	1:D:3389:GLU:O	2.20	0.59
1:D:3702:VAL:HA	1:D:3778:MET:CE	2.33	0.59
1:C:2924:GLN:O	1:C:2928:LYS:HG3	2.03	0.59
1:A:3546:ASP:C	1:A:3550:ARG:HE	2.09	0.59
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.76	0.59
2:G:21:THR:N	2:G:107:GLU:O	2.35	0.59
1:B:659:TYR:OH	1:B:807:GLY:O	2.11	0.59
1:B:1771:LEU:HB3	1:B:2153:MET:HE2	1.84	0.59
1:B:3614:LYS:O	1:B:3617:LYS:HG2	2.02	0.59
1:D:1158:ASN:ND2	1:D:1182:ILE:O	2.34	0.59
1:C:426:ARG:NE	1:C:429:GLY:O	2.35	0.59
1:C:3283:ARG:HG2	1:C:3287:ARG:HH12	1.67	0.59
1:C:5014:TYR:HE2	6:C:5304:A1BD2:C1	2.16	0.59
1:A:2615:ARG:NH1	1:A:2617:SER:OG	2.36	0.59
1:A:3510:ILE:O	1:A:3514:LEU:HD23	2.03	0.59
1:A:3729:MET:HE3	1:A:3770:LEU:HD22	1.83	0.59
1:B:2256:TYR:O	1:B:2260:ASN:OD1	2.21	0.59
1:B:3283:ARG:HG2	1:B:3287:ARG:HH12	1.67	0.59
1:B:5014:TYR:HE2	6:B:5304:A1BD2:C1	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2650:ARG:NH1	1:D:2651:CYS:SG	2.76	0.59
1:D:2744:ASN:OD1	1:D:2745:VAL:HG23	2.02	0.59
1:D:3416:VAL:O	1:D:3420:ARG:N	2.36	0.59
1:D:3614:LYS:O	1:D:3617:LYS:HG2	2.02	0.59
1:C:988:LEU:HB2	1:C:1039:LEU:HD21	1.85	0.59
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.13	0.59
1:C:2615:ARG:NH1	1:C:2617:SER:OG	2.36	0.59
1:A:28:VAL:O	1:A:31:GLU:N	2.29	0.59
1:A:1431:THR:HG22	1:A:1431:THR:O	2.02	0.59
1:B:3671:ASP:OD1	1:B:3672:ARG:N	2.35	0.59
1:B:4178:LEU:HD23	1:B:4179:GLY:N	2.17	0.59
1:D:988:LEU:HB2	1:D:1039:LEU:HD21	1.85	0.59
1:D:3930:ILE:HG23	1:D:3951:PHE:HE1	1.68	0.59
1:C:28:VAL:O	1:C:31:GLU:N	2.29	0.59
1:C:893:TYR:HB3	1:C:962:SER:OG	2.02	0.59
1:C:2256:TYR:O	1:C:2260:ASN:OD1	2.21	0.59
1:C:2674:LEU:HD23	1:C:2677:LYS:HZ1	1.67	0.59
1:C:4097:MET:HE2	1:C:4097:MET:HA	1.83	0.59
1:B:683:ARG:NH1	1:B:707:VAL:O	2.29	0.59
1:B:1186:ASP:OD2	1:B:1187:GLY:N	2.36	0.59
1:B:2165:LEU:HD11	1:B:2177:LEU:HD22	1.84	0.59
1:B:2477:PRO:HD3	1:B:2546:MET:HE3	1.84	0.59
1:B:2744:ASN:OD1	1:B:2745:VAL:N	2.35	0.59
1:B:3479:ALA:HB1	1:C:1141:ARG:HB3	1.83	0.59
1:D:3729:MET:CE	1:D:3770:LEU:HD22	2.32	0.59
1:A:231:LEU:HD13	1:A:247:TYR:CE1	2.38	0.59
1:A:1158:ASN:ND2	1:A:1182:ILE:O	2.34	0.59
1:A:3686:GLU:O	1:A:3687:GLU:HG3	2.03	0.59
1:B:2381:GLU:HA	1:B:2384:ILE:HD12	1.85	0.59
1:B:2706:ILE:O	1:B:2710:LEU:HD23	2.02	0.59
1:B:2880:GLU:HA	1:B:2883:HIS:CE1	2.38	0.59
1:B:3510:ILE:O	1:B:3514:LEU:HD23	2.03	0.59
1:B:3980:LEU:O	1:B:3983:SER:OG	2.18	0.59
1:D:28:VAL:HG23	1:D:29:LEU:CD2	2.32	0.59
1:D:231:LEU:HD13	1:D:247:TYR:CE1	2.37	0.59
1:D:2305:CYS:O	1:D:2324:ASN:N	2.36	0.59
1:C:1771:LEU:HB3	1:C:2153:MET:HE2	1.84	0.59
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.38	0.59
1:C:3410:PRO:HB3	1:C:3469:PHE:CE2	2.37	0.59
1:C:4837:LEU:O	1:C:4841:VAL:HG23	2.02	0.59
1:A:2650:ARG:NH1	1:A:2651:CYS:SG	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2744:ASN:OD1	1:A:2745:VAL:HG23	2.02	0.58
1:A:2758:PHE:O	1:A:2762:THR:OG1	2.10	0.58
1:A:3729:MET:CE	1:A:3770:LEU:HD22	2.32	0.58
1:A:4097:MET:HA	1:A:4097:MET:HE2	1.83	0.58
2:E:49:MET:HG3	2:E:52:LYS:HZ1	1.68	0.58
1:B:3702:VAL:HA	1:B:3778:MET:CE	2.33	0.58
1:D:3114:LYS:HD3	1:D:3116:SER:H	1.69	0.58
1:D:3405:LEU:HD22	1:D:3409:TYR:CZ	2.38	0.58
1:D:3573:MET:HG3	1:D:3577:ARG:HE	1.67	0.58
1:D:3671:ASP:OD1	1:D:3672:ARG:N	2.35	0.58
1:C:1931:LEU:HD13	1:C:1935:VAL:HG12	1.83	0.58
1:C:2381:GLU:HA	1:C:2384:ILE:HD12	1.85	0.58
1:C:2758:PHE:O	1:C:2762:THR:OG1	2.10	0.58
1:A:323:LEU:HD23	1:A:323:LEU:H	1.68	0.58
1:A:988:LEU:HB2	1:A:1039:LEU:HD21	1.85	0.58
1:A:1676:LEU:HD22	1:A:2167:ILE:HD12	1.85	0.58
1:A:2381:GLU:HA	1:A:2384:ILE:HD12	1.85	0.58
1:A:3323:ILE:HD11	1:A:3338:LEU:HD23	1.84	0.58
1:A:3930:ILE:HG23	1:A:3951:PHE:HE1	1.68	0.58
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.38	0.58
1:B:2223:ILE:HG23	1:B:2223:ILE:O	2.01	0.58
1:B:2583:LEU:HB3	1:B:2622:LEU:HD22	1.85	0.58
1:B:3410:PRO:HB3	1:B:3469:PHE:CE2	2.37	0.58
1:D:179:TYR:N	1:D:194:SER:O	2.33	0.58
1:D:415:ILE:HD11	1:D:490:CYS:SG	2.43	0.58
1:D:426:ARG:NE	1:D:429:GLY:O	2.35	0.58
1:D:1771:LEU:HB3	1:D:2153:MET:HE2	1.84	0.58
1:D:2880:GLU:HA	1:D:2883:HIS:CE1	2.38	0.58
1:D:5014:TYR:HE2	6:D:5304:A1BD2:C1	2.16	0.58
1:C:3114:LYS:HD3	1:C:3116:SER:H	1.69	0.58
1:A:2161:GLN:HB3	1:A:2177:LEU:HD21	1.84	0.58
1:A:3386:GLU:O	1:A:3389:GLU:O	2.20	0.58
1:A:3573:MET:HG3	1:A:3577:ARG:HE	1.67	0.58
2:E:21:THR:N	2:E:107:GLU:O	2.35	0.58
1:B:4837:LEU:O	1:B:4841:VAL:HG23	2.02	0.58
1:D:884:LEU:HA	1:D:887:ILE:HD12	1.85	0.58
1:D:2165:LEU:HD11	1:D:2177:LEU:HD22	1.85	0.58
1:D:3510:ILE:O	1:D:3514:LEU:HD23	2.03	0.58
1:D:4178:LEU:HD23	1:D:4179:GLY:N	2.17	0.58
1:C:294:THR:O	1:C:298:GLY:N	2.34	0.58
1:C:2527:LEU:HG	1:C:2531:ARG:HE	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2880:GLU:HA	1:C:2883:HIS:CE1	2.38	0.58
1:C:3015:LEU:O	1:C:3019:SER:OG	2.18	0.58
1:A:1186:ASP:OD2	1:A:1187:GLY:N	2.36	0.58
1:B:893:TYR:HB3	1:B:962:SER:OG	2.02	0.58
1:B:988:LEU:HB2	1:B:1039:LEU:HD21	1.85	0.58
1:B:3343:GLN:O	1:B:3346:VAL:HG12	2.02	0.58
1:B:3686:GLU:O	1:B:3687:GLU:HG3	2.03	0.58
1:D:1027:LEU:HD21	1:D:1031:THR:CG2	2.34	0.58
1:D:1431:THR:HG22	1:D:1431:THR:O	2.02	0.58
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.76	0.58
1:C:2583:LEU:HB3	1:C:2622:LEU:HD22	1.85	0.58
1:C:2650:ARG:NH1	1:C:2651:CYS:SG	2.76	0.58
1:C:3510:ILE:O	1:C:3514:LEU:HD23	2.03	0.58
1:A:2477:PRO:HD3	1:A:2546:MET:HE3	1.84	0.58
1:B:972:LEU:HD11	1:B:1041:GLN:OE1	2.04	0.58
1:B:1931:LEU:HD13	1:B:1935:VAL:HG12	1.83	0.58
1:B:3323:ILE:HD11	1:B:3338:LEU:HD23	1.84	0.58
1:D:1069:TRP:HE3	1:D:1603:VAL:HG21	1.67	0.58
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.38	0.58
1:D:3686:GLU:O	1:D:3687:GLU:HG3	2.03	0.58
1:C:1069:TRP:HE3	1:C:1603:VAL:HG21	1.67	0.58
1:C:1679:ASN:ND2	1:C:1797:ARG:O	2.35	0.58
1:C:2305:CYS:O	1:C:2324:ASN:N	2.36	0.58
1:C:3671:ASP:OD1	1:C:3672:ARG:N	2.35	0.58
1:C:3702:VAL:HA	1:C:3778:MET:CE	2.33	0.58
1:C:4978:HIS:ND1	1:C:4982:GLU:OE1	2.32	0.58
1:A:2441:HIS:HA	1:A:2444:GLN:OE1	2.04	0.58
1:A:2583:LEU:HB3	1:A:2622:LEU:HD22	1.85	0.58
1:A:5014:TYR:HE2	6:A:5304:A1BD2:C1	2.16	0.58
1:D:2381:GLU:HA	1:D:2384:ILE:HD12	1.85	0.58
1:C:1069:TRP:CE3	1:C:1603:VAL:CG2	2.86	0.58
1:C:3458:PHE:O	1:C:3462:ASN:ND2	2.32	0.58
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.76	0.58
1:A:1069:TRP:CE3	1:A:1603:VAL:CG2	2.86	0.58
1:A:3256:LEU:HD13	1:A:3266:MET:HG3	1.86	0.58
1:B:415:ILE:HD11	1:B:490:CYS:SG	2.43	0.58
1:B:3405:LEU:HD22	1:B:3409:TYR:CZ	2.38	0.58
1:D:3323:ILE:HD11	1:D:3338:LEU:HD23	1.84	0.58
1:C:323:LEU:HD23	1:C:323:LEU:H	1.68	0.58
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.43	0.58
1:C:1158:ASN:ND2	1:C:1182:ILE:O	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2161:GLN:HB3	1:C:2177:LEU:HD21	1.84	0.58
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.38	0.58
1:B:993:HIS:NE2	1:B:1022:VAL:O	2.30	0.58
1:B:2650:ARG:NH1	1:B:2651:CYS:SG	2.76	0.58
1:D:323:LEU:HD23	1:D:323:LEU:H	1.68	0.58
1:D:988:LEU:CB	1:D:1039:LEU:HD21	2.34	0.58
1:D:3015:LEU:O	1:D:3019:SER:OG	2.18	0.58
1:D:3256:LEU:HD13	1:D:3266:MET:HG3	1.86	0.58
1:D:3980:LEU:O	1:D:3983:SER:OG	2.18	0.58
1:C:2744:ASN:OD1	1:C:2745:VAL:HG23	2.02	0.58
1:C:3930:ILE:HG23	1:C:3951:PHE:HE1	1.68	0.58
1:A:629:ARG:HB2	2:E:34:LYS:HE2	1.84	0.58
1:A:663:TYR:OH	1:A:665:GLU:OE2	2.22	0.58
1:A:1228:ILE:HD11	1:D:3571:TRP:CE2	2.39	0.58
1:A:3416:VAL:O	1:A:3420:ARG:N	2.36	0.58
1:A:3980:LEU:O	1:A:3983:SER:OG	2.18	0.58
1:A:4837:LEU:O	1:A:4841:VAL:HG23	2.02	0.58
1:B:2744:ASN:OD1	1:B:2745:VAL:HG23	2.02	0.58
1:B:3681:GLY:O	1:B:3682:GLU:HG3	2.03	0.58
1:D:1069:TRP:CE3	1:D:1603:VAL:CG2	2.86	0.58
1:C:972:LEU:HD11	1:C:1041:GLN:OE1	2.04	0.58
1:C:988:LEU:CB	1:C:1039:LEU:HD21	2.34	0.58
1:C:1069:TRP:CE2	1:C:1602:PRO:HG3	2.39	0.58
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.43	0.58
1:A:3114:LYS:HD3	1:A:3116:SER:H	1.68	0.58
1:B:3930:ILE:HG23	1:B:3951:PHE:HE1	1.68	0.58
1:D:1069:TRP:CE2	1:D:1602:PRO:HG3	2.39	0.58
1:D:2481:LYS:O	1:D:2481:LYS:HD2	2.04	0.58
1:D:2924:GLN:O	1:D:2928:LYS:HG3	2.03	0.58
1:D:3458:PHE:O	1:D:3462:ASN:ND2	2.32	0.58
1:C:1186:ASP:OD2	1:C:1187:GLY:N	2.36	0.58
1:C:3405:LEU:HD22	1:C:3409:TYR:CZ	2.38	0.58
1:A:884:LEU:HA	1:A:887:ILE:HD12	1.85	0.57
1:A:2256:TYR:O	1:A:2260:ASN:OD1	2.21	0.57
1:A:2481:LYS:O	1:A:2481:LYS:HD2	2.04	0.57
1:A:2880:GLU:HA	1:A:2883:HIS:CE1	2.38	0.57
1:A:4839:MET:HE1	1:D:4820:VAL:HG11	1.85	0.57
1:B:3546:ASP:O	1:B:3550:ARG:NE	2.35	0.57
1:B:4668:LEU:HG	1:B:4672:LYS:HZ3	1.68	0.57
1:D:2256:TYR:O	1:D:2260:ASN:OD1	2.21	0.57
1:D:3842:LEU:HD22	1:D:3933:PHE:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4545:GLU:O	1:D:4549:VAL:HG23	2.04	0.57
1:C:1733:GLU:HG2	1:C:2201:LEU:HD23	1.86	0.57
1:C:2165:LEU:HD11	1:C:2177:LEU:HD22	1.85	0.57
1:C:3681:GLY:O	1:C:3682:GLU:HG3	2.03	0.57
1:A:4545:GLU:O	1:A:4549:VAL:HG23	2.04	0.57
2:F:21:THR:N	2:F:107:GLU:O	2.35	0.57
1:B:1027:LEU:HD21	1:B:1031:THR:CG2	2.34	0.57
1:B:1069:TRP:CE3	1:B:1603:VAL:CG2	2.86	0.57
1:D:2582:MET:SD	1:D:2583:LEU:N	2.77	0.57
1:D:3681:GLY:O	1:D:3682:GLU:HG3	2.03	0.57
1:C:4721:LYS:HG2	1:C:4741:LEU:HD13	1.86	0.57
1:A:1069:TRP:CE2	1:A:1602:PRO:HG3	2.39	0.57
1:A:4721:LYS:HG2	1:A:4741:LEU:HD13	1.86	0.57
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.76	0.57
1:D:1676:LEU:HD22	1:D:2167:ILE:HD12	1.85	0.57
1:D:2583:LEU:HB3	1:D:2622:LEU:HD22	1.85	0.57
1:C:2151:ASP:O	1:C:2155:LEU:HD23	2.05	0.57
1:C:4545:GLU:O	1:C:4549:VAL:HG23	2.04	0.57
1:A:972:LEU:HD11	1:A:1041:GLN:OE1	2.04	0.57
1:A:1027:LEU:HD21	1:A:1031:THR:CG2	2.34	0.57
1:A:1771:LEU:HB3	1:A:2153:MET:HE2	1.84	0.57
1:A:2810:LYS:O	1:A:2814:LYS:HG3	2.05	0.57
1:B:323:LEU:H	1:B:323:LEU:HD23	1.68	0.57
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.87	0.57
1:B:3114:LYS:HD3	1:B:3116:SER:H	1.68	0.57
1:B:3416:VAL:O	1:B:3420:ARG:N	2.36	0.57
1:D:2151:ASP:O	1:D:2155:LEU:HD23	2.05	0.57
1:D:2979:ALA:O	1:D:2982:SER:OG	2.22	0.57
1:C:884:LEU:HA	1:C:887:ILE:HD12	1.86	0.57
1:C:2441:HIS:HA	1:C:2444:GLN:OE1	2.04	0.57
1:C:3323:ILE:HD11	1:C:3338:LEU:HD23	1.84	0.57
1:A:988:LEU:CB	1:A:1039:LEU:HD21	2.34	0.57
1:A:2781:VAL:HG23	1:A:2789:PRO:HG3	1.87	0.57
1:A:3842:LEU:HD22	1:A:3933:PHE:CZ	2.39	0.57
1:B:2481:LYS:O	1:B:2481:LYS:HD2	2.04	0.57
1:C:50:GLU:OE2	1:C:61:ASP:N	2.35	0.57
1:C:1676:LEU:HD22	1:C:2167:ILE:HD12	1.85	0.57
1:C:1999:ARG:O	1:C:3638:MET:SD	2.63	0.57
1:A:1999:ARG:O	1:A:3638:MET:SD	2.63	0.57
1:A:4668:LEU:HG	1:A:4672:LYS:HZ3	1.69	0.57
1:B:884:LEU:HA	1:B:887:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2305:CYS:O	1:B:2324:ASN:N	2.36	0.57
1:B:2810:LYS:O	1:B:2814:LYS:HG3	2.05	0.57
1:B:4743:MET:CE	1:B:4748:LEU:HD11	2.34	0.57
1:D:1733:GLU:HG2	1:D:2201:LEU:HD23	1.86	0.57
1:D:1999:ARG:O	1:D:3638:MET:SD	2.63	0.57
1:D:4743:MET:CE	1:D:4748:LEU:HD11	2.34	0.57
1:C:3853:ALA:HA	1:C:3856:LEU:HD11	1.86	0.57
1:A:28:VAL:HG23	1:A:29:LEU:CD2	2.32	0.57
1:A:1733:GLU:HG2	1:A:2201:LEU:HD23	1.86	0.57
1:A:2010:LEU:HD21	1:A:3653:PHE:CE1	2.40	0.57
1:A:2924:GLN:O	1:A:2928:LYS:HG3	2.03	0.57
1:A:4743:MET:CE	1:A:4748:LEU:HD11	2.34	0.57
1:B:498:THR:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2441:HIS:HA	1:B:2444:GLN:OE1	2.04	0.57
1:D:2441:HIS:HA	1:D:2444:GLN:OE1	2.04	0.57
1:D:3100:SER:O	1:D:3104:GLU:OE1	2.23	0.57
1:D:4127:GLU:OE1	1:D:4131:ARG:NH2	2.28	0.57
1:D:4736:ARG:NH2	1:C:4079:ASP:OD2	2.38	0.57
1:D:4966:ASP:OD1	1:D:4967:TYR:N	2.38	0.57
1:C:3416:VAL:O	1:C:3420:ARG:N	2.36	0.57
1:C:3686:GLU:O	1:C:3687:GLU:HG3	2.03	0.57
1:C:4668:LEU:HG	1:C:4672:LYS:HZ3	1.69	0.57
1:A:498:THR:O	1:A:553:ARG:NH2	2.38	0.57
1:A:1245:PHE:CD2	1:A:1290:ARG:NH1	2.73	0.57
1:A:2582:MET:SD	1:A:2583:LEU:N	2.77	0.57
1:A:3405:LEU:HD22	1:A:3409:TYR:CZ	2.38	0.57
1:B:988:LEU:CB	1:B:1039:LEU:HD21	2.34	0.57
1:B:3458:PHE:O	1:B:3462:ASN:ND2	2.32	0.57
1:D:972:LEU:HD11	1:D:1041:GLN:OE1	2.04	0.57
1:D:1245:PHE:CD2	1:D:1290:ARG:NH1	2.73	0.57
1:D:2010:LEU:HD21	1:D:3653:PHE:CE1	2.40	0.57
1:C:498:THR:O	1:C:553:ARG:NH2	2.38	0.57
1:C:985:VAL:HG22	1:C:1043:VAL:HG21	1.87	0.57
1:C:3842:LEU:HD22	1:C:3933:PHE:CZ	2.39	0.57
1:A:1983:ALA:HA	1:A:1986:MET:CE	2.35	0.57
1:A:3681:GLY:O	1:A:3682:GLU:HG3	2.03	0.57
1:A:4839:MET:HE3	1:D:4823:LEU:CD2	2.34	0.57
1:B:50:GLU:OE2	1:B:61:ASP:N	2.35	0.57
1:B:663:TYR:OH	1:B:665:GLU:OE2	2.22	0.57
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	1.85	0.57
1:B:2582:MET:SD	1:B:2583:LEU:N	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2858:GLN:O	1:B:2860:PRO:HD3	2.05	0.57
1:B:3100:SER:O	1:B:3104:GLU:OE1	2.23	0.57
1:B:3256:LEU:HD13	1:B:3266:MET:HG3	1.85	0.57
1:B:3853:ALA:HA	1:B:3856:LEU:HD11	1.86	0.57
1:D:50:GLU:OE2	1:D:61:ASP:N	2.35	0.57
1:D:317:ARG:NH1	1:D:349:GLN:OE1	2.38	0.57
1:C:3015:LEU:O	1:C:3019:SER:N	2.37	0.57
1:C:3100:SER:O	1:C:3104:GLU:OE1	2.23	0.57
1:A:2238:TYR:O	1:A:2242:ILE:HD12	2.05	0.57
1:A:4966:ASP:OD1	1:A:4967:TYR:N	2.38	0.57
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.13	0.57
1:B:1999:ARG:O	1:B:3638:MET:SD	2.63	0.57
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.35	0.57
1:B:2751:LEU:CD2	1:B:2817:ILE:HD11	2.35	0.57
1:B:3842:LEU:HD22	1:B:3933:PHE:CZ	2.39	0.57
1:B:4966:ASP:OD1	1:B:4967:TYR:N	2.38	0.57
1:D:663:TYR:OH	1:D:665:GLU:OE2	2.22	0.57
1:D:1983:ALA:HA	1:D:1986:MET:CE	2.35	0.57
1:D:4668:LEU:HG	1:D:4672:LYS:HZ3	1.69	0.57
1:C:1027:LEU:HD21	1:C:1031:THR:CG2	2.34	0.57
1:C:1245:PHE:CD2	1:C:1290:ARG:NH1	2.73	0.57
1:C:2858:GLN:O	1:C:2860:PRO:HD3	2.05	0.57
1:C:3256:LEU:HD13	1:C:3266:MET:HG3	1.85	0.57
1:A:110:ARG:NH2	1:A:117:TYR:OH	2.38	0.56
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.38	0.56
1:A:1105:ALA:HB2	1:A:1191:VAL:HG11	1.87	0.56
1:A:1491:ASN:OD1	1:A:1492:CYS:N	2.38	0.56
1:A:2751:LEU:CD2	1:A:2817:ILE:HD11	2.35	0.56
1:A:2957:PHE:CE1	1:A:3038:MET:HE1	2.40	0.56
1:B:995:VAL:HG22	1:B:998:ARG:HH12	1.70	0.56
1:B:1069:TRP:CE2	1:B:1602:PRO:HG3	2.39	0.56
1:D:110:ARG:NH2	1:D:117:TYR:OH	2.38	0.56
1:D:1105:ALA:HB2	1:D:1191:VAL:HG11	1.87	0.56
1:D:2957:PHE:CE1	1:D:3038:MET:HE1	2.40	0.56
1:A:2023:LEU:O	1:A:2028:ARG:NH2	2.38	0.56
1:A:2209:GLU:O	1:A:2213:ASN:ND2	2.39	0.56
1:A:3100:SER:O	1:A:3104:GLU:OE1	2.23	0.56
1:A:3254:GLY:O	1:A:3258:GLU:OE1	2.23	0.56
1:A:4929:LEU:O	1:A:4933:GLN:OE1	2.23	0.56
1:B:2781:VAL:HG23	1:B:2789:PRO:HG3	1.87	0.56
1:B:4929:LEU:O	1:B:4933:GLN:OE1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:993:HIS:NE2	1:D:1022:VAL:O	2.30	0.56
1:D:3254:GLY:O	1:D:3258:GLU:OE1	2.23	0.56
1:D:4929:LEU:O	1:D:4933:GLN:OE1	2.23	0.56
1:C:2010:LEU:HD21	1:C:3653:PHE:CE1	2.40	0.56
1:C:2023:LEU:O	1:C:2028:ARG:NH2	2.38	0.56
1:C:2481:LYS:O	1:C:2481:LYS:HD2	2.04	0.56
1:C:4929:LEU:O	1:C:4933:GLN:OE1	2.23	0.56
1:A:985:VAL:HG22	1:A:1043:VAL:HG21	1.86	0.56
1:A:995:VAL:HG22	1:A:998:ARG:HH12	1.70	0.56
1:A:2151:ASP:O	1:A:2155:LEU:HD23	2.05	0.56
1:B:931:THR:O	1:B:935:LEU:HD23	2.06	0.56
1:B:1491:ASN:OD1	1:B:1492:CYS:N	2.38	0.56
1:B:1983:ALA:HA	1:B:1986:MET:CE	2.35	0.56
1:B:2151:ASP:O	1:B:2155:LEU:HD23	2.05	0.56
1:B:2238:TYR:O	1:B:2242:ILE:HD12	2.05	0.56
1:B:4545:GLU:O	1:B:4549:VAL:HG23	2.04	0.56
1:D:28:VAL:O	1:D:31:GLU:N	2.29	0.56
1:D:498:THR:O	1:D:553:ARG:NH2	2.38	0.56
1:D:884:LEU:O	1:D:888:GLU:OE1	2.24	0.56
1:D:995:VAL:HG22	1:D:998:ARG:HH12	1.70	0.56
1:D:1491:ASN:OD1	1:D:1492:CYS:N	2.38	0.56
1:D:1742:THR:O	1:D:1960:ALA:HB2	2.06	0.56
1:D:2209:GLU:O	1:D:2213:ASN:ND2	2.39	0.56
1:D:2781:VAL:HG23	1:D:2789:PRO:HG3	1.87	0.56
1:D:2810:LYS:O	1:D:2814:LYS:HG3	2.05	0.56
1:D:2858:GLN:O	1:D:2860:PRO:HD3	2.05	0.56
1:D:4721:LYS:HG2	1:D:4741:LEU:HD13	1.86	0.56
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.38	0.56
1:C:1491:ASN:OD1	1:C:1492:CYS:N	2.38	0.56
1:C:1983:ALA:HA	1:C:1986:MET:CE	2.35	0.56
1:C:2582:MET:SD	1:C:2583:LEU:N	2.77	0.56
1:C:2810:LYS:O	1:C:2814:LYS:HG3	2.05	0.56
1:C:4743:MET:CE	1:C:4748:LEU:HD11	2.34	0.56
1:A:856:VAL:HG12	1:A:991:ASN:ND2	2.21	0.56
1:B:2037:ASP:OD1	1:B:2038:LEU:N	2.39	0.56
1:D:985:VAL:HG22	1:D:1043:VAL:HG21	1.87	0.56
1:C:884:LEU:O	1:C:888:GLU:OE1	2.24	0.56
1:A:1439:VAL:HG21	1:A:1448:VAL:HG11	1.88	0.56
1:A:3853:ALA:HA	1:A:3856:LEU:HD11	1.86	0.56
1:B:1733:GLU:HG2	1:B:2201:LEU:HD23	1.86	0.56
1:B:3986:TRP:O	1:B:3990:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:GLY:C	1:D:443:LEU:HD23	2.31	0.56
1:D:931:THR:O	1:D:935:LEU:HD23	2.06	0.56
1:D:2037:ASP:OD1	1:D:2038:LEU:N	2.39	0.56
1:D:3853:ALA:HA	1:D:3856:LEU:HD11	1.86	0.56
1:D:4820:VAL:HG12	1:D:4822:THR:H	1.71	0.56
1:C:43:GLY:C	1:C:443:LEU:HD23	2.31	0.56
1:C:1105:ALA:HB2	1:C:1191:VAL:HG11	1.87	0.56
1:C:2957:PHE:CE1	1:C:3038:MET:HE1	2.40	0.56
1:A:4548:ARG:O	1:A:4552:LEU:HD23	2.06	0.56
1:B:43:GLY:C	1:B:443:LEU:HD23	2.31	0.56
1:B:1245:PHE:CD2	1:B:1290:ARG:NH1	2.73	0.56
1:B:2209:GLU:O	1:B:2213:ASN:ND2	2.39	0.56
1:B:4721:LYS:HG2	1:B:4741:LEU:HD13	1.86	0.56
1:D:2238:TYR:O	1:D:2242:ILE:HD12	2.05	0.56
1:C:110:ARG:NH2	1:C:117:TYR:OH	2.39	0.56
1:C:663:TYR:OH	1:C:665:GLU:OE2	2.22	0.56
1:C:2667:THR:HG1	1:C:2671:GLU:CD	2.09	0.56
1:A:2774:ASN:ND2	1:B:1506:GLN:O	2.34	0.56
1:B:1676:LEU:HD22	1:B:2167:ILE:CD1	2.36	0.56
1:B:1742:THR:O	1:B:1960:ALA:HB2	2.06	0.56
1:B:2347:GLU:OE2	1:B:3852:LYS:NZ	2.39	0.56
1:B:4548:ARG:O	1:B:4552:LEU:HD23	2.06	0.56
1:D:2872:GLN:O	1:D:2876:GLU:OE1	2.24	0.56
1:C:1676:LEU:HD22	1:C:2167:ILE:CD1	2.36	0.56
1:C:2037:ASP:OD1	1:C:2038:LEU:N	2.39	0.56
1:C:2347:GLU:OE2	1:C:3852:LYS:NZ	2.39	0.56
1:C:4966:ASP:OD1	1:C:4967:TYR:N	2.38	0.56
1:A:3020:THR:OG1	1:A:3023:LYS:O	2.07	0.56
2:E:6:THR:HG23	2:E:6:THR:O	2.06	0.56
1:B:110:ARG:NH2	1:B:117:TYR:OH	2.38	0.56
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.35	0.56
1:B:2872:GLN:O	1:B:2876:GLU:OE1	2.24	0.56
1:B:4902:GLU:OE1	1:B:4902:GLU:N	2.39	0.56
1:D:856:VAL:HG12	1:D:991:ASN:ND2	2.21	0.56
1:D:1579:MET:HE2	1:D:1580:PHE:HE1	1.65	0.56
1:D:3176:GLY:HA3	1:D:3268:HIS:CE1	2.41	0.56
1:D:3986:TRP:O	1:D:3990:VAL:HG23	2.05	0.56
1:D:4548:ARG:O	1:D:4552:LEU:HD23	2.06	0.56
1:C:995:VAL:HG22	1:C:998:ARG:HH12	1.70	0.56
1:C:1005:TRP:HB3	1:C:1021:LEU:HD22	1.88	0.56
1:C:2751:LEU:CD2	1:C:2817:ILE:HD11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:GLU:OE2	1:A:61:ASP:N	2.35	0.56
1:A:2305:CYS:O	1:A:2324:ASN:N	2.36	0.56
1:A:2460:LEU:HD23	1:B:131:LEU:HD22	1.87	0.56
1:B:2010:LEU:HD21	1:B:3653:PHE:CE1	2.40	0.56
1:B:4745:LEU:HA	1:B:4748:LEU:HD12	1.87	0.56
1:D:2434:GLY:O	1:D:2508:ARG:NE	2.39	0.56
1:D:3704:HIS:O	1:D:3708:THR:HG23	2.06	0.56
1:C:1069:TRP:CH2	1:C:1112:ASP:HB2	2.41	0.56
1:C:1742:THR:O	1:C:1960:ALA:HB2	2.06	0.56
1:C:2135:LEU:HD21	1:C:3662:ILE:CG2	2.36	0.56
1:C:2238:TYR:O	1:C:2242:ILE:HD12	2.05	0.56
1:C:4749:GLU:O	1:C:4753:HIS:CD2	2.59	0.56
1:A:1742:THR:O	1:A:1960:ALA:HB2	2.06	0.56
1:A:3201:MET:CE	1:A:3203:VAL:HG22	2.36	0.56
1:B:1105:ALA:HB2	1:B:1191:VAL:HG11	1.87	0.56
1:B:1461:ASP:OD2	1:B:1468:LYS:NZ	2.39	0.56
1:B:2434:GLY:O	1:B:2508:ARG:NE	2.39	0.56
1:B:4820:VAL:HG11	1:C:4839:MET:HE1	1.88	0.56
1:D:2751:LEU:CD2	1:D:2817:ILE:HD11	2.35	0.56
1:C:856:VAL:HG12	1:C:991:ASN:ND2	2.21	0.56
1:C:2612[A]:ARG:NH1	1:C:2612[A]:ARG:HB3	2.20	0.56
1:C:2872:GLN:O	1:C:2876:GLU:OE1	2.24	0.56
1:C:2967:MET:O	1:C:2970:SER:OG	2.14	0.56
1:C:3412:LEU:O	1:C:3416:VAL:HG23	2.06	0.56
1:C:3704:HIS:O	1:C:3708:THR:HG23	2.06	0.56
1:C:3986:TRP:O	1:C:3990:VAL:HG23	2.05	0.56
1:A:884:LEU:O	1:A:888:GLU:OE1	2.24	0.55
1:A:2872:GLN:O	1:A:2876:GLU:OE1	2.24	0.55
1:A:3568:SER:OG	1:A:3569:LEU:N	2.39	0.55
1:A:3986:TRP:O	1:A:3990:VAL:HG23	2.05	0.55
1:B:317:ARG:NH1	1:B:349:GLN:OE1	2.38	0.55
1:B:1005:TRP:HB3	1:B:1021:LEU:HD22	1.88	0.55
1:B:2023:LEU:O	1:B:2028:ARG:NH2	2.38	0.55
1:B:2479:LEU:HD11	1:B:2540:THR:HG21	1.88	0.55
1:B:2906:VAL:HG23	1:B:2911:LEU:CD2	2.36	0.55
1:B:2957:PHE:CE1	1:B:3038:MET:HE1	2.40	0.55
1:D:1509:ILE:H	1:D:1509:ILE:HD12	1.71	0.55
1:D:2479:LEU:HD11	1:D:2540:THR:HG21	1.88	0.55
1:D:3015:LEU:O	1:D:3019:SER:N	2.37	0.55
1:C:939:VAL:HG23	1:C:1053:ILE:HD11	1.88	0.55
1:C:1439:VAL:HG21	1:C:1448:VAL:HG11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2781:VAL:HG23	1:C:2789:PRO:HG3	1.87	0.55
1:C:3176:GLY:HA3	1:C:3268:HIS:CE1	2.41	0.55
1:A:939:VAL:HG23	1:A:1053:ILE:HD11	1.88	0.55
1:A:2037:ASP:OD1	1:A:2038:LEU:N	2.39	0.55
1:A:3546:ASP:O	1:A:3550:ARG:NE	2.36	0.55
1:B:228:ASP:OD1	1:B:229:GLU:N	2.40	0.55
1:B:4820:VAL:HG12	1:B:4822:THR:H	1.71	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB3	2.41	0.55
1:D:1676:LEU:HD22	1:D:2167:ILE:CD1	2.36	0.55
1:D:2970:SER:HA	1:D:2973:PHE:CE1	2.42	0.55
1:D:3842:LEU:HD21	1:D:3875:MET:HE2	1.88	0.55
1:C:2434:GLY:O	1:C:2508:ARG:NE	2.39	0.55
1:C:2479:LEU:HD11	1:C:2540:THR:HG21	1.88	0.55
1:A:43:GLY:C	1:A:443:LEU:HD23	2.31	0.55
1:A:900:ASN:OD1	1:A:901:LYS:N	2.40	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB3	2.41	0.55
1:A:2274:ASP:OD1	1:A:2274:ASP:C	2.50	0.55
1:A:2479:LEU:HD11	1:A:2540:THR:HG21	1.89	0.55
1:A:2858:GLN:O	1:A:2860:PRO:HD3	2.05	0.55
1:A:3704:HIS:O	1:A:3708:THR:HG23	2.06	0.55
1:A:4749:GLU:O	1:A:4753:HIS:CD2	2.59	0.55
2:F:6:THR:HG23	2:F:6:THR:O	2.06	0.55
1:B:101:LEU:C	1:B:102:LEU:HD12	2.32	0.55
1:B:3176:GLY:HA3	1:B:3268:HIS:CE1	2.41	0.55
1:B:4079:ASP:OD2	1:C:4736:ARG:NH2	2.40	0.55
1:B:4157:ASP:OD2	1:B:4159:ARG:NH2	2.40	0.55
1:B:4749:GLU:O	1:B:4753:HIS:CD2	2.59	0.55
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.89	0.55
1:D:2274:ASP:OD1	1:D:2274:ASP:C	2.49	0.55
1:D:3137:LEU:CD2	1:D:3189:ALA:HB1	2.37	0.55
1:D:3201:MET:CE	1:D:3203:VAL:HG22	2.36	0.55
1:D:3568:SER:OG	1:D:3569:LEU:N	2.39	0.55
1:C:931:THR:O	1:C:935:LEU:HD23	2.06	0.55
1:C:1434:TYR:HB2	1:C:1572:ILE:HG21	1.88	0.55
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.42	0.55
1:A:1461:ASP:OD2	1:A:1468:LYS:NZ	2.39	0.55
1:A:1676:LEU:HD22	1:A:2167:ILE:CD1	2.36	0.55
1:A:2135:LEU:HD21	1:A:3662:ILE:CG2	2.36	0.55
1:A:3176:GLY:HA3	1:A:3268:HIS:CE1	2.41	0.55
1:A:4820:VAL:HG12	1:A:4822:THR:H	1.71	0.55
1:B:2612[A]:ARG:NH1	1:B:2612[A]:ARG:HB3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2758:PHE:O	1:B:2762:THR:OG1	2.10	0.55
1:B:3457:ASN:O	1:B:3460:VAL:HG12	2.07	0.55
1:D:879:HIS:NE2	1:D:906:CYS:SG	2.69	0.55
1:D:1005:TRP:HB3	1:D:1021:LEU:HD22	1.88	0.55
1:D:1434:TYR:HB2	1:D:1572:ILE:HG21	1.88	0.55
1:D:2612[A]:ARG:NH1	1:D:2612[A]:ARG:HB3	2.20	0.55
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.89	0.55
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.42	0.55
1:C:1069:TRP:CH2	1:C:1112:ASP:HB3	2.41	0.55
1:C:1509:ILE:H	1:C:1509:ILE:HD12	1.71	0.55
1:C:2142:TYR:OH	1:C:3648:ARG:NH1	2.40	0.55
1:C:2906:VAL:HG23	1:C:2911:LEU:CD2	2.36	0.55
1:C:3137:LEU:CD2	1:C:3189:ALA:HB1	2.37	0.55
1:C:3842:LEU:HD21	1:C:3875:MET:HE2	1.88	0.55
1:C:4548:ARG:O	1:C:4552:LEU:HD23	2.06	0.55
1:A:1005:TRP:HB3	1:A:1021:LEU:HD22	1.88	0.55
2:H:25:HIS:CE1	2:H:40:ARG:HG2	2.42	0.55
1:B:1069:TRP:CE3	1:B:1603:VAL:HG21	2.42	0.55
1:B:2135:LEU:HD21	1:B:3662:ILE:CG2	2.36	0.55
1:B:2979:ALA:O	1:B:2982:SER:OG	2.22	0.55
1:B:3254:GLY:O	1:B:3258:GLU:OE1	2.23	0.55
1:B:3412:LEU:O	1:B:3416:VAL:HG23	2.06	0.55
1:D:1439:VAL:HG21	1:D:1448:VAL:HG11	1.88	0.55
1:D:2142:TYR:OH	1:D:3648:ARG:NH1	2.40	0.55
1:D:3412:LEU:O	1:D:3416:VAL:HG23	2.06	0.55
1:D:4749:GLU:O	1:D:4753:HIS:CD2	2.59	0.55
1:D:4839:MET:HE1	1:C:4820:VAL:HG11	1.88	0.55
1:C:900:ASN:OD1	1:C:901:LYS:N	2.40	0.55
1:C:2199:ARG:NH2	1:C:2243:SER:OG	2.40	0.55
1:C:4820:VAL:HG12	1:C:4822:THR:H	1.71	0.55
1:A:931:THR:O	1:A:935:LEU:HD23	2.06	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB2	2.41	0.55
1:A:3412:LEU:O	1:A:3416:VAL:HG23	2.06	0.55
1:A:3457:ASN:O	1:A:3460:VAL:HG12	2.07	0.55
1:A:3562:LYS:HZ2	1:A:3565:GLY:N	2.05	0.55
1:A:4157:ASP:OD1	1:A:4160:LEU:N	2.37	0.55
2:F:25:HIS:CE1	2:F:40:ARG:HG2	2.42	0.55
1:B:856:VAL:HG12	1:B:991:ASN:ND2	2.21	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB2	2.41	0.55
1:D:900:ASN:OD1	1:D:901:LYS:N	2.40	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2199:ARG:NH2	1:D:2243:SER:OG	2.40	0.55
1:D:2215:LEU:HD23	1:D:2223:ILE:HD13	1.88	0.55
1:D:3304:CYS:SG	1:D:3305:THR:N	2.80	0.55
1:D:3457:ASN:O	1:D:3460:VAL:HG12	2.07	0.55
1:C:879:HIS:CE1	1:C:906:CYS:SG	3.00	0.55
1:C:3568:SER:OG	1:C:3569:LEU:N	2.39	0.55
1:C:4745:LEU:HA	1:C:4748:LEU:HD12	1.87	0.55
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.13	0.55
1:A:1445:PRO:HA	1:A:1448:VAL:HG12	1.89	0.55
1:A:2582:MET:SD	1:A:2583:LEU:HG	2.47	0.55
1:A:2906:VAL:HG23	1:A:2911:LEU:CD2	2.36	0.55
1:A:3304:CYS:SG	1:A:3305:THR:N	2.80	0.55
1:A:4658:ILE:HD13	1:A:4792:LEU:HB3	1.89	0.55
1:A:5009:TYR:CE1	1:A:5013:MET:HE3	2.42	0.55
2:F:21:THR:N	2:F:49:MET:SD	2.80	0.55
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.42	0.55
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.42	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB3	2.41	0.55
1:B:2199:ARG:NH2	1:B:2243:SER:OG	2.40	0.55
1:B:3500:GLY:O	1:B:3504:SER:OG	2.25	0.55
1:B:3568:SER:OG	1:B:3569:LEU:N	2.39	0.55
1:B:3842:LEU:HD21	1:B:3875:MET:HE2	1.88	0.55
1:D:2023:LEU:O	1:D:2028:ARG:NH2	2.38	0.55
1:D:2135:LEU:HD21	1:D:3662:ILE:CG2	2.36	0.55
1:D:3105:LYS:O	1:D:3109:ASN:ND2	2.40	0.55
1:D:3622:LYS:HB3	1:D:3625:SER:HB3	1.89	0.55
1:C:2691:TYR:OH	1:C:2693:GLN:OE1	2.25	0.55
1:A:260:TRP:CE3	1:A:282:ILE:HG22	2.42	0.55
1:A:879:HIS:CE1	1:A:906:CYS:SG	3.00	0.55
1:A:1069:TRP:CE3	1:A:1603:VAL:HG21	2.42	0.55
1:A:2199:ARG:NH2	1:A:2243:SER:OG	2.40	0.55
1:A:2205:GLU:O	1:A:2208:MET:HB3	2.07	0.55
1:A:2325:PRO:O	1:A:2328:GLY:N	2.40	0.55
1:A:3105:LYS:O	1:A:3109:ASN:ND2	2.40	0.55
1:A:3842:LEU:HD21	1:A:3875:MET:HE2	1.88	0.55
1:A:4209:GLN:NE2	1:A:4210:VAL:HG23	2.22	0.55
1:A:4820:VAL:HG11	1:B:4839:MET:HE1	1.89	0.55
1:B:2205:GLU:O	1:B:2208:MET:HB3	2.07	0.55
1:B:2562:ILE:CG2	1:B:2610:LEU:HD11	2.37	0.55
1:B:2970:SER:HA	1:B:2973:PHE:CE1	2.42	0.55
1:B:3097:GLU:O	1:B:3101:GLU:OE1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3201:MET:CE	1:B:3203:VAL:HG22	2.36	0.55
1:B:4658:ILE:HD13	1:B:4792:LEU:HB3	1.89	0.55
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.42	0.55
1:D:1110:ARG:HB3	1:D:1112:ASP:OD1	2.07	0.55
1:D:3562:LYS:HZ2	1:D:3565:GLY:N	2.04	0.55
1:C:2205:GLU:O	1:C:2208:MET:HB3	2.07	0.55
1:C:3254:GLY:O	1:C:3258:GLU:OE1	2.23	0.55
1:A:101:LEU:C	1:A:102:LEU:HD12	2.32	0.55
1:A:548:VAL:HG21	1:A:582:HIS:CD2	2.42	0.55
1:A:2612[A]:ARG:NH1	1:A:2612[A]:ARG:HB3	2.20	0.55
1:B:884:LEU:O	1:B:888:GLU:OE1	2.24	0.55
1:B:1509:ILE:H	1:B:1509:ILE:HD12	1.71	0.55
1:B:1720:LEU:HD23	1:B:1851:MET:HE3	1.88	0.55
1:B:2215:LEU:HD23	1:B:2223:ILE:HD13	1.88	0.55
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.06	0.55
1:D:1720:LEU:HD23	1:D:1851:MET:HE3	1.88	0.55
1:C:228:ASP:OD1	1:C:229:GLU:N	2.40	0.55
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.40	0.55
1:C:4902:GLU:N	1:C:4902:GLU:OE1	2.39	0.55
1:A:125:ARG:NH2	1:A:191:VAL:O	2.32	0.55
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.89	0.55
1:A:2215:LEU:HD23	1:A:2223:ILE:HD13	1.89	0.55
1:A:3622:LYS:HB3	1:A:3625:SER:HB3	1.89	0.55
2:G:21:THR:N	2:G:49:MET:SD	2.80	0.55
1:B:879:HIS:CE1	1:B:906:CYS:SG	3.00	0.55
1:B:900:ASN:OD1	1:B:901:LYS:N	2.40	0.55
1:B:3015:LEU:O	1:B:3019:SER:N	2.37	0.55
1:D:260:TRP:CE3	1:D:282:ILE:HG22	2.42	0.55
1:D:1435:TYR:OH	1:D:1564:PHE:HD2	1.90	0.55
1:D:2691:TYR:OH	1:D:2693:GLN:OE1	2.25	0.55
1:D:3546:ASP:O	1:D:3550:ARG:NE	2.35	0.55
1:D:4745:LEU:HA	1:D:4748:LEU:HD12	1.87	0.55
1:C:12:GLN:O	1:C:165:VAL:HG23	2.07	0.55
1:C:1445:PRO:HA	1:C:1448:VAL:HG12	1.88	0.55
1:C:2325:PRO:O	1:C:2328:GLY:N	2.40	0.55
1:C:3622:LYS:HB3	1:C:3625:SER:HB3	1.89	0.55
1:C:4127:GLU:OE1	1:C:4131:ARG:NH2	2.28	0.55
1:A:2434:GLY:O	1:A:2508:ARG:NE	2.39	0.54
1:A:2562:ILE:CG2	1:A:2610:LEU:HD11	2.37	0.54
1:A:3568:SER:C	1:A:3572:GLN:OE1	2.51	0.54
1:A:4157:ASP:OD2	1:A:4159:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4902:GLU:OE1	1:A:4902:GLU:N	2.39	0.54
2:E:21:THR:N	2:E:49:MET:SD	2.80	0.54
2:H:21:THR:N	2:H:49:MET:SD	2.80	0.54
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.89	0.54
1:B:2096:GLU:OE1	1:B:2096:GLU:N	2.40	0.54
1:B:3105:LYS:O	1:B:3109:ASN:ND2	2.40	0.54
1:B:3304:CYS:SG	1:B:3305:THR:N	2.80	0.54
1:B:4545:GLU:OE2	1:B:4548:ARG:NH2	2.33	0.54
1:D:939:VAL:HG23	1:D:1053:ILE:HD11	1.88	0.54
1:D:1228:ILE:HD11	1:C:3571:TRP:CE2	2.42	0.54
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.35	0.54
1:D:2205:GLU:O	1:D:2208:MET:HB3	2.07	0.54
1:D:2325:PRO:O	1:D:2328:GLY:N	2.40	0.54
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.40	0.54
1:C:1069:TRP:CE3	1:C:1603:VAL:HG21	2.42	0.54
1:C:3457:ASN:O	1:C:3460:VAL:HG12	2.07	0.54
1:A:1110:ARG:HB3	1:A:1112:ASP:OD1	2.07	0.54
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.40	0.54
1:B:2801:ASP:OD1	1:B:2802:LYS:N	2.41	0.54
1:B:3137:LEU:CD2	1:B:3189:ALA:HB1	2.37	0.54
1:B:3875:MET:HE3	1:B:3953:LYS:HG3	1.89	0.54
1:B:4209:GLN:NE2	1:B:4210:VAL:HG23	2.22	0.54
1:D:548:VAL:HA	1:D:551:LEU:HD13	1.89	0.54
1:D:1461:ASP:OD2	1:D:1468:LYS:NZ	2.39	0.54
1:D:2582:MET:SD	1:D:2583:LEU:HG	2.47	0.54
1:D:3465:ASN:OD1	1:D:3467:MET:HB3	2.07	0.54
1:C:499:THR:HG23	1:C:502:HIS:H	1.73	0.54
1:C:548:VAL:HA	1:C:551:LEU:HD13	1.89	0.54
1:C:2274:ASP:OD1	1:C:2274:ASP:C	2.50	0.54
1:C:2475:GLN:NE2	1:C:2476:ILE:O	2.41	0.54
1:C:5009:TYR:CE1	1:C:5013:MET:HE3	2.42	0.54
1:A:730:VAL:HA	1:A:1476:MET:HE1	1.89	0.54
1:A:2801:ASP:OD1	1:A:2802:LYS:N	2.41	0.54
1:A:2970:SER:HA	1:A:2973:PHE:CE1	2.42	0.54
2:E:25:HIS:CE1	2:E:40:ARG:HG2	2.42	0.54
1:B:1434:TYR:HB2	1:B:1572:ILE:HG21	1.88	0.54
1:B:2325:PRO:O	1:B:2328:GLY:N	2.40	0.54
1:B:4542:GLY:O	1:B:4546:VAL:HG13	2.07	0.54
1:D:12:GLN:O	1:D:165:VAL:HG23	2.07	0.54
1:D:2906:VAL:HG23	1:D:2911:LEU:CD2	2.36	0.54
1:D:3529:ASP:OD2	1:D:3595:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3568:SER:C	1:D:3572:GLN:OE1	2.51	0.54
1:D:4542:GLY:O	1:D:4546:VAL:HG13	2.07	0.54
1:C:260:TRP:CE3	1:C:282:ILE:HG22	2.42	0.54
1:C:2209:GLU:O	1:C:2213:ASN:ND2	2.38	0.54
1:C:2215:LEU:HD23	1:C:2223:ILE:HD13	1.88	0.54
1:C:2970:SER:HA	1:C:2973:PHE:CE1	2.42	0.54
1:A:228:ASP:OD1	1:A:229:GLU:N	2.40	0.54
1:A:1509:ILE:HD12	1:A:1509:ILE:H	1.71	0.54
1:A:2475:GLN:NE2	1:A:2476:ILE:O	2.41	0.54
1:A:3097:GLU:O	1:A:3101:GLU:OE1	2.25	0.54
2:H:6:THR:HG23	2:H:6:THR:O	2.06	0.54
2:G:25:HIS:CE1	2:G:40:ARG:HG2	2.42	0.54
1:B:2142:TYR:OH	1:B:3648:ARG:NH1	2.40	0.54
1:D:101:LEU:C	1:D:102:LEU:HD12	2.32	0.54
1:D:730:VAL:HA	1:D:1476:MET:HE1	1.89	0.54
1:D:1069:TRP:CE3	1:D:1603:VAL:HG21	2.42	0.54
1:D:3097:GLU:O	1:D:3101:GLU:OE1	2.25	0.54
1:D:3179:LYS:O	1:D:3180:ASN:OD1	2.26	0.54
1:D:5009:TYR:CE1	1:D:5013:MET:HE3	2.42	0.54
1:C:1435:TYR:OH	1:C:1564:PHE:HD2	1.90	0.54
1:C:2562:ILE:CG2	1:C:2610:LEU:HD11	2.37	0.54
1:C:2724:GLU:OE1	1:C:2724:GLU:N	2.41	0.54
1:C:3304:CYS:SG	1:C:3305:THR:N	2.80	0.54
1:C:3568:SER:C	1:C:3572:GLN:OE1	2.51	0.54
1:C:3809:ASN:ND2	1:C:3812:VAL:HG23	2.23	0.54
1:C:4658:ILE:HD13	1:C:4792:LEU:HB3	1.89	0.54
1:A:2096:GLU:OE1	1:A:2096:GLU:N	2.40	0.54
1:A:3137:LEU:CD2	1:A:3189:ALA:HB1	2.37	0.54
1:B:260:TRP:CE3	1:B:282:ILE:HG22	2.42	0.54
1:B:548:VAL:HA	1:B:551:LEU:HD13	1.89	0.54
1:B:924:MET:HG3	1:B:925:SER:N	2.23	0.54
1:B:939:VAL:HG23	1:B:1053:ILE:HD11	1.88	0.54
1:B:1924:GLU:OE2	1:B:1929:MET:N	2.41	0.54
1:B:3568:SER:C	1:B:3572:GLN:OE1	2.51	0.54
1:B:5009:TYR:CE1	1:B:5013:MET:HE3	2.42	0.54
1:D:650:VAL:O	1:D:777:PHE:N	2.38	0.54
1:D:2096:GLU:OE1	1:D:2096:GLU:N	2.40	0.54
1:C:3201:MET:CE	1:C:3203:VAL:HG22	2.36	0.54
1:C:3282:PRO:HG3	1:C:3345:ILE:HG22	1.89	0.54
1:A:831:ARG:HH21	1:A:1199:VAL:HG21	1.73	0.54
1:A:1434:TYR:HB2	1:A:1572:ILE:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1784:ALA:O	2:E:82:TYR:OH	2.13	0.54
1:A:3529:ASP:OD2	1:A:3595:ARG:NH2	2.41	0.54
1:A:3850:GLN:OE1	1:A:3873:LYS:NZ	2.29	0.54
1:A:4745:LEU:HA	1:A:4748:LEU:HD12	1.87	0.54
1:B:1445:PRO:HA	1:B:1448:VAL:HG12	1.89	0.54
1:B:3622:LYS:HB3	1:B:3625:SER:HB3	1.89	0.54
1:D:1924:GLU:OE2	1:D:1929:MET:N	2.41	0.54
1:D:2549:ALA:HA	1:D:2552:ARG:NH1	2.23	0.54
1:D:2562:ILE:CG2	1:D:2610:LEU:HD11	2.37	0.54
1:D:2801:ASP:OD1	1:D:2802:LYS:N	2.41	0.54
1:D:3809:ASN:ND2	1:D:3812:VAL:HG23	2.23	0.54
1:D:3966:THR:HG22	1:D:3970:GLN:OE1	2.08	0.54
1:C:101:LEU:C	1:C:102:LEU:HD12	2.32	0.54
1:C:548:VAL:HG21	1:C:582:HIS:CD2	2.42	0.54
1:C:874:LEU:CD2	1:C:1046:LEU:HD21	2.38	0.54
1:C:1207:ASP:O	1:C:1210:SER:OG	2.24	0.54
1:C:1703:LEU:HD21	1:C:1707:LEU:HB2	1.90	0.54
1:C:3465:ASN:OD1	1:C:3467:MET:HB3	2.07	0.54
1:A:2691:TYR:OH	1:A:2693:GLN:OE1	2.25	0.54
1:A:3270:ILE:HG21	1:A:3334:TRP:HE3	1.70	0.54
1:A:3282:PRO:HG3	1:A:3345:ILE:HG22	1.89	0.54
1:A:3465:ASN:OD1	1:A:3467:MET:HB3	2.07	0.54
1:A:3809:ASN:ND2	1:A:3812:VAL:HG23	2.23	0.54
1:B:1439:VAL:HG21	1:B:1448:VAL:HG11	1.88	0.54
1:B:2475:GLN:NE2	1:B:2476:ILE:O	2.40	0.54
1:D:918:ARG:O	1:D:922:LEU:HD23	2.08	0.54
1:D:4157:ASP:OD1	1:D:4160:LEU:N	2.37	0.54
1:C:3179:LYS:O	1:C:3180:ASN:OD1	2.26	0.54
1:C:3875:MET:HE3	1:C:3953:LYS:HG3	1.89	0.54
1:A:12:GLN:O	1:A:165:VAL:HG23	2.07	0.54
1:A:2142:TYR:OH	1:A:3648:ARG:NH1	2.40	0.54
1:A:2724:GLU:OE1	1:A:2724:GLU:N	2.41	0.54
1:A:3966:THR:HG22	1:A:3970:GLN:OE1	2.08	0.54
1:A:4542:GLY:O	1:A:4546:VAL:HG13	2.08	0.54
2:G:6:THR:HG23	2:G:6:THR:O	2.06	0.54
1:B:12:GLN:O	1:B:165:VAL:HG23	2.07	0.54
1:B:812:HIS:O	1:B:815:VAL:HG12	2.08	0.54
1:B:2582:MET:SD	1:B:2583:LEU:HG	2.47	0.54
1:B:3562:LYS:HZ2	1:B:3565:GLY:N	2.06	0.54
1:B:3809:ASN:ND2	1:B:3812:VAL:HG23	2.23	0.54
1:D:1610:ASN:OD1	1:D:1702:HIS:CD2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:918:ARG:O	1:C:922:LEU:HD23	2.08	0.54
1:C:3966:THR:HG22	1:C:3970:GLN:OE1	2.08	0.54
1:C:4545:GLU:OE2	1:C:4548:ARG:NH2	2.33	0.54
1:A:1610:ASN:OD1	1:A:1702:HIS:CD2	2.61	0.54
1:A:2267:MET:HE1	1:A:2270:SER:O	2.08	0.54
1:A:3179:LYS:O	1:A:3180:ASN:OD1	2.26	0.54
1:B:2274:ASP:OD1	1:B:2274:ASP:C	2.49	0.54
1:D:548:VAL:HG21	1:D:582:HIS:CD2	2.42	0.54
1:D:879:HIS:CE1	1:D:906:CYS:SG	3.00	0.54
1:D:1445:PRO:HA	1:D:1448:VAL:HG12	1.89	0.54
1:D:1703:LEU:HD21	1:D:1707:LEU:HB2	1.90	0.54
1:D:3107:VAL:HG12	1:D:3175:LEU:HD22	1.90	0.54
1:D:4209:GLN:NE2	1:D:4210:VAL:HG23	2.22	0.54
1:A:499:THR:HG23	1:A:502:HIS:H	1.73	0.54
1:A:1141:ARG:HB2	1:D:3479:ALA:HB1	1.89	0.54
1:B:831:ARG:HH21	1:B:1199:VAL:HG21	1.73	0.54
1:B:2724:GLU:N	1:B:2724:GLU:OE1	2.41	0.54
1:B:2908:TYR:HB2	1:B:2916:LYS:HE2	1.90	0.54
1:C:730:VAL:HA	1:C:1476:MET:HE1	1.89	0.54
1:C:1110:ARG:HB3	1:C:1112:ASP:OD1	2.07	0.54
1:C:2582:MET:SD	1:C:2583:LEU:HG	2.47	0.54
1:C:2801:ASP:OD1	1:C:2802:LYS:N	2.41	0.54
1:C:3105:LYS:O	1:C:3109:ASN:ND2	2.40	0.54
1:C:4241:THR:O	1:C:4245:MET:SD	2.66	0.54
1:C:4542:GLY:O	1:C:4546:VAL:HG13	2.07	0.54
1:A:548:VAL:HA	1:A:551:LEU:HD13	1.89	0.53
1:A:1435:TYR:OH	1:A:1564:PHE:HD2	1.90	0.53
1:A:1720:LEU:HD23	1:A:1851:MET:HE3	1.88	0.53
1:A:2350:ALA:O	1:A:2354:VAL:HG23	2.08	0.53
1:A:2908:TYR:HA	1:A:2911:LEU:HG	1.90	0.53
1:B:730:VAL:HA	1:B:1476:MET:HE1	1.89	0.53
1:B:874:LEU:CD2	1:B:1046:LEU:HD21	2.38	0.53
1:B:893:TYR:O	1:B:903:LEU:HD12	2.09	0.53
1:B:2622:LEU:O	1:B:2626:LEU:HD13	2.09	0.53
1:B:2691:TYR:OH	1:B:2693:GLN:OE1	2.25	0.53
1:B:2991:HIS:O	1:B:2994:GLU:N	2.41	0.53
1:B:3107:VAL:HG12	1:B:3175:LEU:HD22	1.90	0.53
1:B:3802:ILE:HD12	1:B:3886:ARG:HG3	1.89	0.53
1:B:4157:ASP:OD1	1:B:4160:LEU:N	2.37	0.53
1:D:831:ARG:HH21	1:D:1199:VAL:HG21	1.73	0.53
1:D:2191:PHE:HA	1:D:2198:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4755:GLU:O	1:D:4756:ARG:NE	2.41	0.53
1:C:1720:LEU:HD23	1:C:1851:MET:HE3	1.88	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CE1	2.43	0.53
1:A:918:ARG:O	1:A:922:LEU:HD23	2.08	0.53
1:A:2908:TYR:HB2	1:A:2916:LYS:HE2	1.90	0.53
1:A:3107:VAL:HG12	1:A:3175:LEU:HD22	1.90	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CE1	2.43	0.53
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.89	0.53
1:B:3465:ASN:OD1	1:B:3467:MET:HB3	2.07	0.53
1:B:4680:LYS:HB3	1:B:4686:LEU:HD22	1.90	0.53
1:D:2894:LEU:O	1:D:2898:GLY:N	2.36	0.53
1:D:3875:MET:HE3	1:D:3953:LYS:HG3	1.89	0.53
1:D:4839:MET:HE3	1:C:4823:LEU:CD2	2.37	0.53
1:D:4902:GLU:OE1	1:D:4902:GLU:N	2.39	0.53
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.90	0.53
1:C:893:TYR:O	1:C:903:LEU:HD12	2.09	0.53
1:C:2549:ALA:HA	1:C:2552:ARG:NH1	2.23	0.53
1:C:2623:LEU:O	1:C:2627:VAL:HG23	2.09	0.53
1:C:4209:GLN:NE2	1:C:4210:VAL:HG23	2.22	0.53
1:A:812:HIS:O	1:A:815:VAL:HG12	2.08	0.53
1:A:2549:ALA:HA	1:A:2552:ARG:NH1	2.23	0.53
1:A:2562:ILE:HG22	1:A:2610:LEU:HD11	1.91	0.53
1:B:499:THR:HG23	1:B:502:HIS:H	1.73	0.53
1:B:875:ALA:HB3	1:B:922:LEU:HD22	1.91	0.53
1:B:1703:LEU:HD21	1:B:1707:LEU:HB2	1.90	0.53
1:B:3529:ASP:OD2	1:B:3595:ARG:NH2	2.41	0.53
1:D:228:ASP:OD1	1:D:229:GLU:N	2.40	0.53
1:D:812:HIS:O	1:D:815:VAL:HG12	2.08	0.53
1:D:924:MET:HG3	1:D:925:SER:N	2.23	0.53
1:D:2350:ALA:O	1:D:2354:VAL:HG23	2.08	0.53
1:D:2908:TYR:HB2	1:D:2916:LYS:HE2	1.90	0.53
1:D:3106:MET:CE	1:D:3128:ASN:ND2	2.72	0.53
1:C:924:MET:HG3	1:C:925:SER:N	2.23	0.53
1:C:1924:GLU:OE2	1:C:1929:MET:N	2.41	0.53
1:C:2096:GLU:OE1	1:C:2096:GLU:N	2.40	0.53
1:C:2908:TYR:HB2	1:C:2916:LYS:HE2	1.90	0.53
1:C:3097:GLU:O	1:C:3101:GLU:OE1	2.25	0.53
1:C:3214:ASN:O	1:C:3220:THR:HG21	2.08	0.53
1:A:875:ALA:HB3	1:A:922:LEU:HD22	1.90	0.53
1:A:1703:LEU:HD21	1:A:1707:LEU:HB2	1.90	0.53
1:A:1924:GLU:OE2	1:A:1929:MET:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2355:ARG:O	1:A:2359:ARG:HG2	2.08	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CZ	2.44	0.53
1:B:918:ARG:O	1:B:922:LEU:HD23	2.08	0.53
1:B:2562:ILE:HG22	1:B:2610:LEU:HD11	1.91	0.53
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.40	0.53
1:D:3214:ASN:O	1:D:3220:THR:HG21	2.08	0.53
1:C:1480:GLN:HG2	1:C:1480:GLN:O	2.09	0.53
1:C:2586:VAL:CG1	1:C:2607:LEU:HD13	2.39	0.53
1:C:3270:ILE:HG21	1:C:3334:TRP:HE3	1.70	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CZ	2.44	0.53
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.89	0.53
1:A:3214:ASN:O	1:A:3220:THR:HG21	2.08	0.53
1:B:1480:GLN:O	1:B:1480:GLN:HG2	2.08	0.53
1:B:2350:ALA:O	1:B:2354:VAL:HG23	2.08	0.53
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.09	0.53
1:B:3875:MET:HE1	1:B:3954:ALA:HB2	1.91	0.53
1:D:2991:HIS:O	1:D:2994:GLU:N	2.41	0.53
1:D:3394:VAL:HG22	1:D:3398:PHE:CZ	2.44	0.53
1:D:4658:ILE:HD13	1:D:4792:LEU:HB3	1.89	0.53
1:C:812:HIS:O	1:C:815:VAL:HG12	2.08	0.53
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.90	0.53
1:C:2971:GLN:OE1	1:C:3049:LEU:HD13	2.09	0.53
1:C:3107:VAL:HG12	1:C:3175:LEU:HD22	1.90	0.53
1:C:3529:ASP:OD2	1:C:3595:ARG:NH2	2.41	0.53
1:A:2178:MET:CE	1:A:2228:MET:HG2	2.39	0.53
1:A:3354:LEU:HD11	1:A:3434:LEU:HD22	1.91	0.53
2:F:57:ARG:O	2:F:61:GLU:OE1	2.27	0.53
1:B:309:THR:HG22	1:B:309:THR:O	2.09	0.53
1:B:2178:MET:CE	1:B:2228:MET:HG2	2.39	0.53
1:B:2355:ARG:O	1:B:2359:ARG:HG2	2.08	0.53
1:B:2440:MET:SD	1:B:2440:MET:C	2.92	0.53
1:B:2971:GLN:OE1	1:B:3049:LEU:HD13	2.09	0.53
1:B:2988:LYS:HZ1	1:B:2990:PRO:HG3	1.73	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CZ	2.44	0.53
1:D:309:THR:HG22	1:D:309:THR:O	2.09	0.53
1:D:2755:ILE:HG23	1:D:2809:ILE:HG22	1.91	0.53
1:D:3282:PRO:HG3	1:D:3345:ILE:HG22	1.89	0.53
1:D:4241:THR:O	1:D:4245:MET:SD	2.66	0.53
1:C:875:ALA:HB3	1:C:922:LEU:HD22	1.90	0.53
1:C:2355:ARG:O	1:C:2359:ARG:HG2	2.08	0.53
1:C:2908:TYR:HA	1:C:2911:LEU:HG	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3955:MET:HE1	1:C:4016:LEU:N	2.24	0.53
1:A:1285:GLU:OE2	1:A:1462:MET:HE1	2.09	0.53
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.90	0.53
1:A:2670:GLU:OE1	1:A:2670:GLU:N	2.42	0.53
1:A:3015:LEU:O	1:A:3019:SER:N	2.37	0.53
1:A:3875:MET:HE3	1:A:3953:LYS:HG3	1.89	0.53
1:A:4127:GLU:OE1	1:A:4131:ARG:NH2	2.28	0.53
1:B:2267:MET:HE1	1:B:2270:SER:O	2.08	0.53
1:B:2586:VAL:CG1	1:B:2607:LEU:HD13	2.39	0.53
1:B:3966:THR:HG22	1:B:3970:GLN:OE1	2.08	0.53
1:B:4241:THR:O	1:B:4245:MET:SD	2.66	0.53
1:D:499:THR:HG23	1:D:502:HIS:H	1.73	0.53
1:D:2622:LEU:O	1:D:2626:LEU:HD13	2.09	0.53
1:D:2724:GLU:OE1	1:D:2724:GLU:N	2.41	0.53
1:C:1610:ASN:OD1	1:C:1702:HIS:CD2	2.61	0.53
1:C:2267:MET:HE1	1:C:2270:SER:O	2.08	0.53
1:C:2877:GLN:O	1:C:2880:GLU:HB3	2.09	0.53
1:C:4152:GLU:OE1	1:C:4194:TYR:OH	2.20	0.53
1:B:1285:GLU:OE2	1:B:1462:MET:HE1	2.09	0.53
1:B:2549:ALA:HA	1:B:2552:ARG:NH1	2.23	0.53
1:B:3282:PRO:HG3	1:B:3345:ILE:HG22	1.89	0.53
1:D:1006:SER:C	1:D:1021:LEU:HD23	2.34	0.53
1:D:2475:GLN:NE2	1:D:2476:ILE:O	2.41	0.53
1:D:2971:GLN:OE1	1:D:3049:LEU:HD13	2.09	0.53
1:C:575:LEU:HD22	1:C:606:LEU:HA	1.91	0.53
1:C:1022:VAL:HG22	1:C:1026:LEU:HB2	1.91	0.53
1:A:360:ALA:O	1:A:361:ALA:HB3	2.09	0.53
1:A:783:PHE:HB2	1:A:787:VAL:HG11	1.91	0.53
1:B:1435:TYR:OH	1:B:1564:PHE:HD2	1.90	0.53
1:B:3179:LYS:O	1:B:3180:ASN:OD1	2.26	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CE1	2.43	0.53
1:D:1480:GLN:O	1:D:1480:GLN:HG2	2.09	0.53
1:D:2586:VAL:CG1	1:D:2607:LEU:HD13	2.39	0.53
1:D:3955:MET:HE1	1:D:4016:LEU:N	2.24	0.53
1:C:4680:LYS:HB3	1:C:4686:LEU:HD22	1.90	0.53
1:C:4843:LEU:O	1:C:4847:VAL:HG13	2.09	0.53
1:A:924:MET:HG3	1:A:925:SER:N	2.23	0.53
1:A:2440:MET:SD	1:A:2440:MET:C	2.92	0.53
1:A:2443:ILE:HG23	1:A:2454:ARG:NH1	2.24	0.53
1:A:2991:HIS:O	1:A:2994:GLU:N	2.41	0.53
1:A:4241:THR:O	1:A:4245:MET:SD	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4755:GLU:O	1:A:4756:ARG:NE	2.41	0.53
1:B:125:ARG:NH2	1:B:191:VAL:O	2.32	0.53
1:B:1006:SER:C	1:B:1021:LEU:HD23	2.34	0.53
1:B:2191:PHE:HA	1:B:2198:MET:HE3	1.91	0.53
1:B:2755:ILE:HG23	1:B:2809:ILE:HG22	1.91	0.53
1:D:783:PHE:HB2	1:D:787:VAL:HG11	1.91	0.53
1:D:893:TYR:O	1:D:903:LEU:HD12	2.08	0.53
1:D:1446:SER:O	1:D:1496:TRP:NE1	2.37	0.53
1:D:2267:MET:HE1	1:D:2270:SER:O	2.08	0.53
1:D:3192:GLU:OE2	1:D:3196:ARG:NH1	2.42	0.53
1:D:4843:LEU:O	1:D:4847:VAL:HG13	2.09	0.53
1:C:369:LEU:HB2	1:C:371:VAL:HG23	1.91	0.53
1:C:783:PHE:HB2	1:C:787:VAL:HG11	1.91	0.53
1:C:2979:ALA:O	1:C:2982:SER:OG	2.22	0.53
1:C:2991:HIS:O	1:C:2994:GLU:N	2.41	0.53
1:A:369:LEU:CB	1:A:371:VAL:HG23	2.39	0.52
1:A:2623:LEU:O	1:A:2627:VAL:HG23	2.09	0.52
1:A:3192:GLU:OE2	1:A:3196:ARG:NH1	2.42	0.52
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.90	0.52
1:B:2443:ILE:HG23	1:B:2454:ARG:NH1	2.24	0.52
1:B:2908:TYR:HA	1:B:2911:LEU:HG	1.90	0.52
1:B:3354:LEU:HD11	1:B:3434:LEU:HD22	1.91	0.52
1:B:4823:LEU:CD2	1:C:4839:MET:HE3	2.39	0.52
1:D:2562:ILE:HG22	1:D:2610:LEU:HD11	1.91	0.52
1:D:2670:GLU:OE1	1:D:2670:GLU:N	2.42	0.52
1:D:3394:VAL:HG22	1:D:3398:PHE:CE1	2.43	0.52
1:D:4680:LYS:HB3	1:D:4686:LEU:HD22	1.90	0.52
1:C:2443:ILE:HG23	1:C:2454:ARG:NH1	2.24	0.52
1:C:2755:ILE:HG23	1:C:2809:ILE:HG22	1.91	0.52
1:C:3106:MET:CE	1:C:3128:ASN:ND2	2.71	0.52
1:C:4956:THR:O	1:C:4965:SER:OG	2.28	0.52
1:A:893:TYR:O	1:A:903:LEU:HD12	2.09	0.52
1:A:2347:GLU:OE2	1:A:3852:LYS:NZ	2.39	0.52
1:A:3106:MET:CE	1:A:3128:ASN:ND2	2.71	0.52
1:A:4079:ASP:OD2	1:B:4736:ARG:NH2	2.42	0.52
1:B:118:LEU:HD23	1:B:119:SER:N	2.24	0.52
1:B:575:LEU:HD22	1:B:606:LEU:HA	1.91	0.52
1:B:783:PHE:HB2	1:B:787:VAL:HG11	1.91	0.52
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.50	0.52
1:B:2877:GLN:O	1:B:2880:GLU:HB3	2.09	0.52
1:B:3192:GLU:OE2	1:B:3196:ARG:NH1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3214:ASN:O	1:B:3220:THR:HG21	2.08	0.52
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.90	0.52
1:D:1022:VAL:HG22	1:D:1026:LEU:HB2	1.91	0.52
1:D:2178:MET:CE	1:D:2228:MET:HG2	2.39	0.52
1:D:3354:LEU:HD11	1:D:3434:LEU:HD22	1.91	0.52
1:D:3802:ILE:HD12	1:D:3886:ARG:HG3	1.89	0.52
1:C:1285:GLU:OE2	1:C:1462:MET:HE1	2.09	0.52
1:C:2191:PHE:HA	1:C:2198:MET:HE3	1.91	0.52
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.50	0.52
1:C:4755:GLU:O	1:C:4756:ARG:NE	2.41	0.52
1:A:575:LEU:O	1:A:578:ILE:HG22	2.09	0.52
1:A:2191:PHE:HA	1:A:2198:MET:HE3	1.91	0.52
1:A:3875:MET:HE1	1:A:3954:ALA:HB2	1.91	0.52
1:B:28:VAL:O	1:B:31:GLU:N	2.29	0.52
1:B:1110:ARG:HB3	1:B:1112:ASP:OD1	2.07	0.52
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.92	0.52
1:D:875:ALA:HB3	1:D:922:LEU:HD22	1.90	0.52
1:D:2443:ILE:HG23	1:D:2454:ARG:NH1	2.24	0.52
1:C:2562:ILE:HG22	1:C:2610:LEU:HD11	1.91	0.52
1:A:300:VAL:HG12	1:A:301:VAL:N	2.24	0.52
1:A:650:VAL:O	1:A:777:PHE:N	2.38	0.52
1:A:2586:VAL:CG1	1:A:2607:LEU:HD13	2.39	0.52
1:A:2971:GLN:OE1	1:A:3049:LEU:HD13	2.09	0.52
2:E:57:ARG:O	2:E:61:GLU:OE1	2.27	0.52
1:D:369:LEU:HB2	1:D:371:VAL:HG23	1.91	0.52
1:D:1727:ARG:NH2	1:D:1773:PRO:O	2.43	0.52
1:D:2347:GLU:OE2	1:D:3852:LYS:NZ	2.39	0.52
1:D:2579:VAL:O	1:D:2582:MET:HG3	2.10	0.52
1:D:2908:TYR:HA	1:D:2911:LEU:HG	1.90	0.52
1:C:1006:SER:C	1:C:1021:LEU:HD23	2.34	0.52
1:C:2350:ALA:O	1:C:2354:VAL:HG23	2.08	0.52
1:C:3875:MET:HE1	1:C:3954:ALA:HB2	1.91	0.52
1:A:970:LEU:O	1:A:972:LEU:HD22	2.09	0.52
1:A:1006:SER:C	1:A:1021:LEU:HD23	2.34	0.52
1:A:2579:VAL:O	1:A:2582:MET:HG3	2.10	0.52
1:A:2622:LEU:O	1:A:2626:LEU:HD13	2.09	0.52
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.10	0.52
1:A:3702:VAL:HG13	1:A:3778:MET:HE3	1.92	0.52
1:A:3955:MET:HE1	1:A:4016:LEU:N	2.24	0.52
1:A:4966:ASP:O	1:A:4970:THR:HG23	2.10	0.52
1:B:369:LEU:HB2	1:B:371:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:575:LEU:O	1:B:578:ILE:HG22	2.09	0.52
1:B:1573:MET:CE	1:B:1577:ALA:CB	2.88	0.52
1:B:1610:ASN:OD1	1:B:1702:HIS:CD2	2.61	0.52
1:B:2888:ARG:NH2	1:B:2892:GLN:OE1	2.43	0.52
1:B:3231:GLY:O	1:B:3232:LEU:HD12	2.09	0.52
1:D:360:ALA:O	1:D:361:ALA:HB3	2.09	0.52
1:D:2623:LEU:O	1:D:2627:VAL:HG23	2.09	0.52
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.50	0.52
1:D:3052:HIS:NE2	1:D:3128:ASN:CG	2.65	0.52
1:D:3504:SER:O	1:D:3507:THR:OG1	2.26	0.52
1:D:3850:GLN:OE1	1:D:3873:LYS:NZ	2.29	0.52
1:D:3969:ILE:HG21	1:D:3980:LEU:HD12	1.91	0.52
1:C:300:VAL:HG12	1:C:301:VAL:N	2.24	0.52
1:C:3699:HIS:O	1:C:3703:LEU:HD13	2.10	0.52
1:C:3969:ILE:HG21	1:C:3980:LEU:HD12	1.91	0.52
1:C:4565:LEU:O	1:C:4569:LEU:HD13	2.09	0.52
1:A:546:TRP:O	1:A:550:LYS:HG2	2.10	0.52
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.45	0.52
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.50	0.52
1:A:4680:LYS:HB3	1:A:4686:LEU:HD22	1.90	0.52
2:G:84:ALA:HA	2:G:94:HIS:ND1	2.25	0.52
1:B:1236:THR:OG1	1:B:1608:MET:SD	2.54	0.52
1:B:1527:MET:HE3	1:B:1540:PHE:HB2	1.92	0.52
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.90	0.52
1:B:3955:MET:HE1	1:B:4016:LEU:N	2.24	0.52
1:B:3969:ILE:HG21	1:B:3980:LEU:HD12	1.91	0.52
1:B:4565:LEU:O	1:B:4569:LEU:HD13	2.09	0.52
1:B:4755:GLU:O	1:B:4756:ARG:NE	2.41	0.52
1:B:4852:THR:HG23	1:B:4882:CYS:SG	2.50	0.52
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.45	0.52
1:D:2146:PRO:O	1:D:2149:VAL:HG22	2.10	0.52
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.90	0.52
1:D:2877:GLN:O	1:D:2880:GLU:HB3	2.09	0.52
1:D:2961:GLN:HA	1:D:2964:LEU:HD12	1.92	0.52
1:D:3231:GLY:O	1:D:3232:LEU:HD12	2.10	0.52
1:C:575:LEU:O	1:C:578:ILE:HG22	2.09	0.52
1:C:831:ARG:HH21	1:C:1199:VAL:HG21	1.73	0.52
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.27	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD13	2.09	0.52
1:C:3137:LEU:HD22	1:C:3189:ALA:HB1	1.91	0.52
1:C:3231:GLY:O	1:C:3232:LEU:HD12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3412:LEU:HD11	1:C:3434:LEU:HD21	1.92	0.52
2:G:57:ARG:O	2:G:61:GLU:OE1	2.27	0.52
1:B:451:TYR:CE2	1:B:474:ARG:HD2	2.45	0.52
1:B:970:LEU:O	1:B:972:LEU:HD22	2.10	0.52
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.45	0.52
1:B:3106:MET:CE	1:B:3128:ASN:ND2	2.72	0.52
1:D:575:LEU:O	1:D:578:ILE:HG22	2.09	0.52
1:D:2215:LEU:HD23	1:D:2223:ILE:HD11	1.92	0.52
1:D:2440:MET:SD	1:D:2440:MET:C	2.92	0.52
1:D:3137:LEU:HD22	1:D:3189:ALA:HB1	1.91	0.52
1:C:369:LEU:CB	1:C:371:VAL:HG23	2.39	0.52
1:C:2961:GLN:HA	1:C:2964:LEU:HD12	1.92	0.52
1:C:3354:LEU:HD11	1:C:3434:LEU:HD22	1.91	0.52
1:C:5014:TYR:CE2	6:C:5304:A1BD2:C1	2.93	0.52
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.90	0.52
1:A:451:TYR:CE2	1:A:474:ARG:HD2	2.45	0.52
1:A:1573:MET:CE	1:A:1577:ALA:CB	2.88	0.52
1:A:1727:ARG:NH2	1:A:1773:PRO:O	2.43	0.52
1:A:2755:ILE:HG23	1:A:2809:ILE:HG22	1.91	0.52
2:H:57:ARG:O	2:H:61:GLU:OE1	2.27	0.52
1:B:300:VAL:HG12	1:B:301:VAL:N	2.24	0.52
1:B:3702:VAL:HG13	1:B:3778:MET:HE3	1.92	0.52
1:B:4843:LEU:O	1:B:4847:VAL:HG13	2.09	0.52
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.10	0.52
1:D:4966:ASP:O	1:D:4970:THR:HG23	2.10	0.52
1:D:5014:TYR:CE2	6:D:5304:A1BD2:C1	2.93	0.52
1:C:118:LEU:HD23	1:C:119:SER:N	2.24	0.52
1:C:1527:MET:HE3	1:C:1540:PHE:HB2	1.92	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.45	0.52
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.10	0.52
1:C:2440:MET:SD	1:C:2440:MET:C	2.92	0.52
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.10	0.52
1:C:3249:LEU:HD21	1:C:3273:THR:CG2	2.40	0.52
1:A:309:THR:O	1:A:309:THR:HG22	2.09	0.52
1:A:874:LEU:CD2	1:A:1046:LEU:HD21	2.38	0.52
1:A:1480:GLN:O	1:A:1480:GLN:HG2	2.09	0.52
1:A:2961:GLN:HA	1:A:2964:LEU:HD12	1.92	0.52
1:A:3231:GLY:O	1:A:3232:LEU:HD12	2.10	0.52
1:A:3249:LEU:HD11	1:A:3273:THR:HG21	1.92	0.52
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.10	0.52
1:A:3412:LEU:HD11	1:A:3434:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3699:HIS:O	1:A:3703:LEU:HD13	2.10	0.52
1:B:360:ALA:O	1:B:361:ALA:HB3	2.09	0.52
1:B:369:LEU:CB	1:B:371:VAL:HG23	2.39	0.52
1:B:3249:LEU:HD21	1:B:3273:THR:CG2	2.40	0.52
1:D:2674:LEU:HD23	1:D:2677:LYS:HZ1	1.74	0.52
1:D:3412:LEU:HD11	1:D:3434:LEU:HD21	1.92	0.52
1:D:3500:GLY:O	1:D:3504:SER:OG	2.25	0.52
1:C:650:VAL:O	1:C:777:PHE:N	2.38	0.52
1:C:1727:ARG:NH2	1:C:1773:PRO:O	2.43	0.52
1:C:1997:GLU:HG3	1:C:2008:MET:HE2	1.91	0.52
1:C:3192:GLU:OE2	1:C:3196:ARG:NH1	2.42	0.52
1:A:2012:PHE:HZ	1:A:2031:LEU:HD23	1.75	0.52
1:A:2215:LEU:HD23	1:A:2223:ILE:HD11	1.92	0.52
2:E:49:MET:HB3	2:E:52:LYS:CE	2.40	0.52
1:B:1170:MET:HE1	1:B:1176:GLU:OE2	2.10	0.52
1:B:3201:MET:HE2	1:B:3203:VAL:HG22	1.92	0.52
1:B:3266:MET:HG2	1:B:3266:MET:O	2.10	0.52
1:B:3699:HIS:O	1:B:3703:LEU:HD13	2.10	0.52
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.28	0.52
1:D:369:LEU:CB	1:D:371:VAL:HG23	2.39	0.52
1:D:546:TRP:O	1:D:550:LYS:HG2	2.10	0.52
1:D:972:LEU:CD1	1:D:1044:ARG:HG2	2.40	0.52
1:D:1285:GLU:OE2	1:D:1462:MET:HE1	2.09	0.52
1:D:2431:ASP:O	1:D:2435:ARG:HG2	2.11	0.52
1:D:3230:LEU:CD1	1:D:3232:LEU:HD13	2.40	0.52
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.10	0.52
1:D:3699:HIS:O	1:D:3703:LEU:HD13	2.10	0.52
1:D:3875:MET:HE1	1:D:3954:ALA:HB2	1.91	0.52
1:D:4545:GLU:OE2	1:D:4548:ARG:NH2	2.33	0.52
1:C:1771:LEU:HB3	1:C:2153:MET:CE	2.40	0.52
1:C:2215:LEU:HD23	1:C:2223:ILE:HD11	1.92	0.52
1:A:118:LEU:HD23	1:A:119:SER:N	2.25	0.51
1:A:2178:MET:HE2	1:A:2228:MET:HG2	1.92	0.51
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.10	0.51
1:A:2431:ASP:O	1:A:2435:ARG:HG2	2.11	0.51
1:A:2877:GLN:O	1:A:2880:GLU:HB3	2.09	0.51
1:A:3266:MET:O	1:A:3266:MET:HG2	2.10	0.51
1:A:3524:MET:HG2	1:A:3595:ARG:HD2	1.93	0.51
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.92	0.51
1:A:4565:LEU:O	1:A:4569:LEU:HD13	2.09	0.51
1:A:4956:THR:O	1:A:4965:SER:OG	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:242:ARG:HD3	1:B:287:THR:HG22	1.92	0.51
1:B:2178:MET:HE2	1:B:2228:MET:HG2	1.93	0.51
1:B:2670:GLU:OE1	1:B:2670:GLU:N	2.42	0.51
1:D:451:TYR:CE2	1:D:474:ARG:HD2	2.45	0.51
1:D:509:GLU:O	1:D:513:GLU:OE1	2.29	0.51
1:D:927:GLU:O	1:D:931:THR:HG23	2.11	0.51
1:D:4222:VAL:HG11	1:D:4950:VAL:HA	1.92	0.51
1:D:4565:LEU:O	1:D:4569:LEU:HD13	2.09	0.51
1:D:4852:THR:HG23	1:D:4882:CYS:SG	2.50	0.51
1:C:4157:ASP:OD1	1:C:4160:LEU:N	2.38	0.51
1:C:4852:THR:HG23	1:C:4882:CYS:SG	2.50	0.51
1:A:1022:VAL:HG22	1:A:1026:LEU:HB2	1.91	0.51
1:A:1771:LEU:HB3	1:A:2153:MET:CE	2.40	0.51
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.10	0.51
1:B:638:ILE:HD13	1:B:702:TRP:O	2.11	0.51
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.43	0.51
1:B:3137:LEU:HD22	1:B:3189:ALA:HB1	1.91	0.51
1:B:3175:LEU:O	1:B:3178:THR:HG22	2.11	0.51
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.10	0.51
1:B:3571:TRP:CE2	1:C:1228:ILE:HD11	2.44	0.51
1:D:575:LEU:HD22	1:D:606:LEU:HA	1.91	0.51
1:D:2821:TRP:CH2	1:D:2877:GLN:OE1	2.63	0.51
1:D:4686:LEU:O	1:D:4691:GLN:N	2.33	0.51
1:D:4976:GLU:O	1:D:4980:LEU:HD23	2.11	0.51
1:C:451:TYR:CE2	1:C:474:ARG:HD2	2.45	0.51
1:C:1105:ALA:O	1:C:1189:LEU:N	2.41	0.51
1:C:1170:MET:HE1	1:C:1176:GLU:OE2	2.10	0.51
1:C:1573:MET:CE	1:C:1577:ALA:CB	2.88	0.51
1:C:2238:TYR:O	1:C:2239:PHE:C	2.53	0.51
1:C:3175:LEU:O	1:C:3178:THR:HG22	2.11	0.51
1:C:4655:PHE:HA	1:C:4796:MET:HE1	1.92	0.51
1:A:575:LEU:HD22	1:A:606:LEU:HA	1.91	0.51
1:A:927:GLU:O	1:A:931:THR:HG23	2.11	0.51
1:A:972:LEU:CD1	1:A:1044:ARG:HG2	2.40	0.51
1:A:1436:SER:OG	1:A:1565:GLU:HB2	2.11	0.51
1:A:1527:MET:HE3	1:A:1540:PHE:HB2	1.92	0.51
1:A:3299:GLY:O	1:A:3300:ALA:HB2	2.10	0.51
1:B:2431:ASP:O	1:B:2435:ARG:HG2	2.11	0.51
1:B:2821:TRP:CH2	1:B:2877:GLN:OE1	2.63	0.51
1:B:3405:LEU:HD22	1:B:3409:TYR:CE2	2.46	0.51
1:B:4655:PHE:HA	1:B:4796:MET:HE1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:VAL:HG12	1:D:301:VAL:N	2.25	0.51
1:D:970:LEU:O	1:D:972:LEU:HD22	2.10	0.51
1:D:2012:PHE:HZ	1:D:2031:LEU:HD23	1.75	0.51
1:D:2238:TYR:O	1:D:2239:PHE:C	2.53	0.51
1:D:2355:ARG:O	1:D:2359:ARG:HG2	2.08	0.51
1:C:2178:MET:CE	1:C:2228:MET:HG2	2.39	0.51
1:C:3500:GLY:O	1:C:3504:SER:OG	2.25	0.51
1:A:1170:MET:HE1	1:A:1176:GLU:OE2	2.10	0.51
1:A:1997:GLU:HG3	1:A:2008:MET:HE2	1.91	0.51
1:A:3230:LEU:CD1	1:A:3232:LEU:HD13	2.41	0.51
1:A:3969:ILE:HG21	1:A:3980:LEU:HD12	1.91	0.51
1:A:4843:LEU:O	1:A:4847:VAL:HG13	2.09	0.51
1:A:4976:GLU:O	1:A:4980:LEU:HD23	2.11	0.51
2:H:84:ALA:HA	2:H:94:HIS:ND1	2.25	0.51
1:B:1245:PHE:CD2	1:B:1600:LEU:HD13	2.46	0.51
1:B:2146:PRO:O	1:B:2149:VAL:HG22	2.10	0.51
1:B:3412:LEU:HD11	1:B:3434:LEU:HD21	1.92	0.51
1:D:118:LEU:HD23	1:D:119:SER:N	2.24	0.51
1:D:1527:MET:HE3	1:D:1540:PHE:HB2	1.92	0.51
1:D:2178:MET:HE2	1:D:2228:MET:HG2	1.92	0.51
1:D:3702:VAL:HG13	1:D:3778:MET:HE3	1.92	0.51
1:C:309:THR:O	1:C:309:THR:HG22	2.09	0.51
1:C:2579:VAL:O	1:C:2582:MET:HG3	2.10	0.51
1:A:28:VAL:C	1:A:29:LEU:HD23	2.36	0.51
1:A:1446:SER:O	1:A:1496:TRP:NE1	2.37	0.51
1:A:2821:TRP:CH2	1:A:2877:GLN:OE1	2.63	0.51
1:A:4545:GLU:OE2	1:A:4548:ARG:NH2	2.33	0.51
2:G:49:MET:HB3	2:G:52:LYS:CE	2.40	0.51
1:B:3432:GLU:HB3	1:B:3524:MET:HE1	1.93	0.51
1:B:3524:MET:HG2	1:B:3595:ARG:HD2	1.93	0.51
1:D:1110:ARG:CB	1:D:1112:ASP:OD1	2.59	0.51
1:D:1573:MET:CE	1:D:1577:ALA:CB	2.88	0.51
1:D:2210:VAL:O	1:D:2214:VAL:HG23	2.10	0.51
1:D:3266:MET:O	1:D:3266:MET:HG2	2.10	0.51
1:D:3930:ILE:CG2	1:D:3995:VAL:HG11	2.41	0.51
1:C:970:LEU:O	1:C:972:LEU:HD22	2.09	0.51
1:C:1110:ARG:CB	1:C:1112:ASP:OD1	2.59	0.51
1:C:1245:PHE:CD2	1:C:1600:LEU:HD13	2.46	0.51
1:C:1436:SER:OG	1:C:1565:GLU:HB2	2.11	0.51
1:C:2431:ASP:O	1:C:2435:ARG:HG2	2.11	0.51
1:C:3201:MET:HE2	1:C:3203:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3226:GLU:O	1:C:3227:ARG:HG2	2.11	0.51
1:C:3930:ILE:CG2	1:C:3995:VAL:HG11	2.41	0.51
1:C:4976:GLU:O	1:C:4980:LEU:HD23	2.11	0.51
1:A:242:ARG:HD3	1:A:287:THR:HG22	1.92	0.51
1:A:369:LEU:HB2	1:A:371:VAL:HG23	1.91	0.51
1:A:3930:ILE:CG2	1:A:3995:VAL:HG11	2.41	0.51
1:A:4944:ARG:NE	1:B:4938:ASP:OD2	2.41	0.51
2:H:49:MET:HG3	2:H:52:LYS:HZ1	1.75	0.51
2:H:49:MET:HB3	2:H:52:LYS:CE	2.40	0.51
1:B:2579:VAL:O	1:B:2582:MET:HG3	2.10	0.51
1:B:3321:ARG:O	1:B:3325:ASN:ND2	2.44	0.51
1:D:1170:MET:HE1	1:D:1176:GLU:OE2	2.10	0.51
1:D:1436:SER:OG	1:D:1565:GLU:HB2	2.11	0.51
1:D:3525:CYS:SG	1:D:3599:VAL:HG21	2.50	0.51
1:C:28:VAL:C	1:C:29:LEU:HD23	2.36	0.51
1:C:360:ALA:O	1:C:361:ALA:HB3	2.09	0.51
1:C:972:LEU:CD1	1:C:1044:ARG:HG2	2.41	0.51
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.10	0.51
1:C:2767:ALA:HA	1:C:2791:LEU:HD11	1.93	0.51
1:C:3052:HIS:NE2	1:C:3128:ASN:CG	2.65	0.51
1:A:1230:MET:HE1	1:A:1234:VAL:HG22	1.93	0.51
1:A:3175:LEU:O	1:A:3178:THR:HG22	2.11	0.51
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.11	0.51
1:A:4580:TYR:O	1:B:4879:MET:HG2	2.10	0.51
2:F:49:MET:HB3	2:F:52:LYS:CE	2.40	0.51
1:B:509:GLU:O	1:B:513:GLU:OE1	2.29	0.51
1:B:2667:THR:HG1	1:B:2671:GLU:CD	2.10	0.51
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.10	0.51
1:B:3299:GLY:O	1:B:3300:ALA:HB2	2.11	0.51
1:B:4976:GLU:O	1:B:4980:LEU:HD23	2.11	0.51
1:B:5014:TYR:CE2	6:B:5304:A1BD2:C1	2.93	0.51
1:D:1771:LEU:HB3	1:D:2153:MET:CE	2.40	0.51
1:D:4152:GLU:OE1	1:D:4194:TYR:OH	2.20	0.51
1:C:242:ARG:HD3	1:C:287:THR:HG22	1.92	0.51
1:C:927:GLU:O	1:C:931:THR:HG23	2.11	0.51
1:C:1236:THR:OG1	1:C:1608:MET:SD	2.54	0.51
1:C:3432:GLU:HB3	1:C:3524:MET:CE	2.41	0.51
1:A:3432:GLU:HB3	1:A:3524:MET:HE1	1.93	0.51
1:A:3525:CYS:SG	1:A:3599:VAL:HG21	2.50	0.51
1:A:3734:HIS:C	1:A:3735:LEU:HD23	2.36	0.51
1:B:1022:VAL:HG22	1:B:1026:LEU:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1110:ARG:CB	1:B:1112:ASP:OD1	2.59	0.51
1:B:2199:ARG:NH2	1:B:2246:ASN:OD1	2.44	0.51
1:B:2238:TYR:O	1:B:2239:PHE:C	2.53	0.51
1:B:2767:ALA:HA	1:B:2791:LEU:HD11	1.93	0.51
1:B:3230:LEU:CD1	1:B:3232:LEU:HD13	2.40	0.51
1:B:3734:HIS:C	1:B:3735:LEU:HD23	2.36	0.51
1:B:3930:ILE:CG2	1:B:3995:VAL:HG11	2.41	0.51
1:D:887:ILE:HG23	1:D:959:TYR:CD2	2.46	0.51
1:D:2523:ASP:OD1	1:D:2524:VAL:N	2.44	0.51
1:D:3270:ILE:HG21	1:D:3334:TRP:HE3	1.70	0.51
1:D:4655:PHE:HA	1:D:4796:MET:HE1	1.92	0.51
1:C:504:ALA:HB2	1:C:512:ALA:CB	2.40	0.51
1:C:509:GLU:O	1:C:513:GLU:OE1	2.29	0.51
1:C:2178:MET:HE2	1:C:2228:MET:HG2	1.92	0.51
1:C:3525:CYS:SG	1:C:3599:VAL:HG21	2.50	0.51
1:C:3734:HIS:C	1:C:3735:LEU:HD23	2.36	0.51
1:C:4966:ASP:O	1:C:4970:THR:HG23	2.10	0.51
1:A:638:ILE:HD13	1:A:702:TRP:O	2.11	0.51
1:A:3321:ARG:O	1:A:3325:ASN:ND2	2.44	0.51
1:A:4152:GLU:OE1	1:A:4194:TYR:OH	2.20	0.51
1:D:242:ARG:HD3	1:D:287:THR:HG22	1.92	0.51
1:D:2199:ARG:NH2	1:D:2246:ASN:OD1	2.44	0.51
1:D:3226:GLU:O	1:D:3227:ARG:HG2	2.11	0.51
1:C:1446:SER:O	1:C:1496:TRP:NE1	2.37	0.51
1:C:2821:TRP:CH2	1:C:2877:GLN:OE1	2.63	0.51
1:C:3266:MET:O	1:C:3266:MET:HG2	2.10	0.51
1:C:4157:ASP:OD2	1:C:4159:ARG:NH2	2.40	0.51
1:A:1245:PHE:CD2	1:A:1600:LEU:HD13	2.46	0.51
1:A:2888:ARG:NH2	1:A:2892:GLN:OE1	2.43	0.51
1:A:3015:LEU:O	1:A:3019:SER:OG	2.18	0.51
1:A:3405:LEU:HD22	1:A:3409:TYR:CE2	2.46	0.51
1:A:4852:THR:HG23	1:A:4882:CYS:SG	2.50	0.51
1:A:5014:TYR:CE2	6:A:5304:A1BD2:C1	2.93	0.51
2:E:57:ARG:O	2:E:58:GLY:C	2.54	0.51
2:F:57:ARG:O	2:F:58:GLY:C	2.54	0.51
2:F:84:ALA:HA	2:F:94:HIS:ND1	2.25	0.51
1:B:504:ALA:HB2	1:B:512:ALA:CB	2.41	0.51
1:B:546:TRP:O	1:B:550:LYS:HG2	2.10	0.51
1:B:1997:GLU:HG3	1:B:2008:MET:HE2	1.91	0.51
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.11	0.51
1:B:3270:ILE:HG21	1:B:3334:TRP:HE3	1.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4966:ASP:O	1:B:4970:THR:HG23	2.10	0.51
1:D:3137:LEU:HB3	1:D:3138:PRO:HD3	1.93	0.51
1:D:3432:GLU:HB3	1:D:3524:MET:CE	2.41	0.51
1:D:3432:GLU:HB3	1:D:3524:MET:HE1	1.93	0.51
1:C:546:TRP:O	1:C:550:LYS:HG2	2.10	0.51
1:C:1461:ASP:OD2	1:C:1468:LYS:NZ	2.39	0.51
1:C:3160:ASP:OD2	1:C:3161:VAL:N	2.44	0.51
1:C:3249:LEU:HD11	1:C:3273:THR:HG21	1.92	0.51
1:C:3546:ASP:O	1:C:3550:ARG:NE	2.35	0.51
1:B:1771:LEU:HB3	1:B:2153:MET:CE	2.40	0.50
1:B:2210:VAL:O	1:B:2214:VAL:HG23	2.10	0.50
1:B:2739:PRO:HG3	1:B:2885:THR:HA	1.94	0.50
1:B:2806:ARG:O	1:B:2810:LYS:N	2.32	0.50
1:B:3427:PRO:CD	1:B:3579:LEU:HD21	2.41	0.50
1:B:3957:VAL:O	1:B:3961:VAL:HG23	2.11	0.50
1:B:4956:THR:O	1:B:4965:SER:OG	2.28	0.50
1:D:28:VAL:C	1:D:29:LEU:HD23	2.36	0.50
1:D:792:LEU:HD23	1:D:799:GLU:O	2.11	0.50
1:D:2767:ALA:HA	1:D:2791:LEU:HD11	1.93	0.50
1:D:3249:LEU:HD11	1:D:3273:THR:HG21	1.92	0.50
1:D:3249:LEU:HD21	1:D:3273:THR:CG2	2.40	0.50
1:C:2012:PHE:HZ	1:C:2031:LEU:HD23	1.75	0.50
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.92	0.50
1:A:2739:PRO:HG3	1:A:2885:THR:HA	1.94	0.50
1:A:3201:MET:HE2	1:A:3203:VAL:HG22	1.92	0.50
1:A:4750:ILE:HA	1:A:4753:HIS:CD2	2.47	0.50
2:H:37:ASP:OD1	2:H:42:ARG:NH1	2.43	0.50
1:B:28:VAL:C	1:B:29:LEU:HD23	2.36	0.50
1:B:2725:LYS:HD2	1:B:2736:ASP:OD1	2.11	0.50
1:B:2973:PHE:HA	1:B:2976:HIS:CD2	2.47	0.50
1:B:4205:TRP:CE3	1:B:4989:MET:HE2	2.46	0.50
1:D:1724:CYS:SG	1:D:1851:MET:HE2	2.52	0.50
1:D:1997:GLU:HG3	1:D:2008:MET:HE2	1.91	0.50
1:D:2381:GLU:HB3	1:D:2385:ARG:NH1	2.26	0.50
1:D:2764:GLU:HB3	1:D:2857:PRO:HB3	1.94	0.50
1:D:4157:ASP:N	1:D:4161:ARG:NH1	2.59	0.50
1:D:4750:ILE:HA	1:D:4753:HIS:CD2	2.47	0.50
1:C:1724:CYS:SG	1:C:1851:MET:HE2	2.52	0.50
1:C:2957:PHE:CD1	1:C:3038:MET:HE1	2.47	0.50
1:C:3524:MET:HG2	1:C:3595:ARG:HD2	1.92	0.50
1:C:3702:VAL:HG13	1:C:3778:MET:HE3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3850:GLN:OE1	1:C:3873:LYS:NZ	2.29	0.50
1:C:4241:THR:C	1:C:4245:MET:SD	2.94	0.50
1:C:4985:LEU:HD12	1:C:4986:ALA:N	2.27	0.50
1:A:553:ARG:NE	1:A:555:GLU:OE2	2.44	0.50
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.27	0.50
1:A:2523:ASP:OD1	1:A:2524:VAL:N	2.44	0.50
1:A:2764:GLU:HB3	1:A:2857:PRO:HB3	1.94	0.50
1:A:4241:THR:C	1:A:4245:MET:SD	2.95	0.50
1:B:2774:ASN:ND2	1:C:1506:GLN:O	2.41	0.50
1:B:3226:GLU:O	1:B:3227:ARG:HG2	2.11	0.50
1:B:3249:LEU:HD11	1:B:3273:THR:HG21	1.92	0.50
1:B:3432:GLU:HB3	1:B:3524:MET:CE	2.41	0.50
1:B:4241:THR:C	1:B:4245:MET:SD	2.94	0.50
1:D:1862:ILE:HA	1:D:1865:MET:SD	2.52	0.50
1:D:2716:ASP:OD1	1:D:2717:ALA:N	2.45	0.50
1:D:3175:LEU:O	1:D:3178:THR:HG22	2.11	0.50
1:D:3299:GLY:O	1:D:3300:ALA:HB2	2.11	0.50
1:D:4205:TRP:CE3	1:D:4989:MET:HE2	2.46	0.50
1:C:1230:MET:HE1	1:C:1234:VAL:HG22	1.93	0.50
1:C:1862:ILE:HA	1:C:1865:MET:SD	2.52	0.50
1:C:2725:LYS:HD2	1:C:2736:ASP:OD1	2.11	0.50
1:C:3321:ARG:O	1:C:3325:ASN:ND2	2.44	0.50
1:C:3405:LEU:HD22	1:C:3409:TYR:CE2	2.46	0.50
1:C:3427:PRO:CD	1:C:3579:LEU:HD21	2.41	0.50
1:A:1110:ARG:CB	1:A:1112:ASP:OD1	2.59	0.50
1:A:2238:TYR:O	1:A:2239:PHE:C	2.53	0.50
1:A:2979:ALA:O	1:A:2982:SER:OG	2.22	0.50
1:A:3137:LEU:HD22	1:A:3189:ALA:HB1	1.91	0.50
2:E:84:ALA:HA	2:E:94:HIS:ND1	2.25	0.50
2:E:102:GLU:OE2	2:E:104:LEU:HG	2.12	0.50
1:B:927:GLU:O	1:B:931:THR:HG23	2.11	0.50
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.93	0.50
1:B:3160:ASP:OD2	1:B:3161:VAL:N	2.44	0.50
1:B:3525:CYS:SG	1:B:3599:VAL:HG21	2.50	0.50
1:B:3850:GLN:OE1	1:B:3873:LYS:NZ	2.29	0.50
1:B:4985:LEU:HD12	1:B:4986:ALA:N	2.27	0.50
1:D:1230:MET:HE1	1:D:1234:VAL:HG22	1.93	0.50
1:D:2888:ARG:NH2	1:D:2892:GLN:OE1	2.43	0.50
1:D:3321:ARG:O	1:D:3325:ASN:ND2	2.44	0.50
1:D:3716:LEU:HD11	1:D:3782:MET:HE1	1.93	0.50
1:D:4885:PHE:HE2	1:D:4897:ILE:HD11	1.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3696:ASP:OD2	1:C:3773:ARG:NH1	2.45	0.50
1:A:632:LEU:O	1:A:634:GLN:NE2	2.45	0.50
1:A:792:LEU:HD23	1:A:799:GLU:O	2.11	0.50
1:A:2742:THR:CG2	1:A:2814:LYS:HB3	2.41	0.50
1:A:2758:PHE:CE2	1:A:2926:LEU:HD13	2.47	0.50
1:A:3160:ASP:OD2	1:A:3161:VAL:N	2.44	0.50
1:A:4205:TRP:CE3	1:A:4989:MET:HE2	2.46	0.50
1:B:672:VAL:O	1:B:680:THR:OG1	2.24	0.50
1:B:792:LEU:HD23	1:B:799:GLU:O	2.11	0.50
1:B:1446:SER:O	1:B:1496:TRP:NE1	2.37	0.50
1:B:1453:VAL:HG12	1:B:1492:CYS:HB2	1.94	0.50
1:B:1862:ILE:HA	1:B:1865:MET:SD	2.52	0.50
1:B:3052:HIS:NE2	1:B:3128:ASN:CG	2.65	0.50
1:D:1105:ALA:O	1:D:1189:LEU:N	2.41	0.50
1:D:1240:LYS:O	1:D:1603:VAL:HA	2.11	0.50
1:D:3524:MET:HG2	1:D:3595:ARG:HD2	1.93	0.50
1:C:1453:VAL:HG12	1:C:1492:CYS:HB2	1.94	0.50
1:C:2381:GLU:HB3	1:C:2385:ARG:NH1	2.26	0.50
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.27	0.50
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.10	0.50
1:A:1240:LYS:O	1:A:1603:VAL:HA	2.11	0.50
1:A:1506:GLN:O	1:D:2774:ASN:ND2	2.40	0.50
1:A:1724:CYS:SG	1:A:1851:MET:HE2	2.52	0.50
1:A:2475:GLN:OE1	1:A:2488:PRO:HG3	2.12	0.50
1:A:2642:LYS:HB2	1:A:2698:MET:HE1	1.93	0.50
1:A:2674:LEU:HA	1:A:2677:LYS:CE	2.41	0.50
1:A:3427:PRO:CD	1:A:3579:LEU:HD21	2.41	0.50
1:A:3531:ASP:O	1:A:3535:LEU:HG	2.12	0.50
2:G:37:ASP:OD1	2:G:42:ARG:NH1	2.43	0.50
1:B:368:ARG:NH2	1:B:2308:GLN:HB2	2.27	0.50
1:B:776:LEU:HD21	1:B:848:HIS:HA	1.94	0.50
1:B:1240:LYS:O	1:B:1603:VAL:HA	2.11	0.50
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.11	0.50
1:B:2381:GLU:HB3	1:B:2385:ARG:NH1	2.26	0.50
1:B:2887:GLY:HA3	1:B:2905:LEU:HD22	1.94	0.50
1:B:4222:VAL:HG11	1:B:4950:VAL:HA	1.92	0.50
1:B:5032:TYR:O	1:B:5036:LEU:N	2.37	0.50
1:D:638:ILE:HD13	1:D:702:TRP:O	2.11	0.50
1:D:874:LEU:CD2	1:D:1046:LEU:HD21	2.38	0.50
1:D:2121:PHE:O	1:D:3725:TYR:OH	2.27	0.50
1:D:2642:LYS:HB2	1:D:2698:MET:HE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2758:PHE:CE2	1:D:2926:LEU:HD13	2.47	0.50
1:D:2779:GLU:O	1:D:2792:ARG:NH1	2.45	0.50
1:D:2957:PHE:CD1	1:D:3038:MET:HE1	2.47	0.50
1:D:3160:ASP:OD2	1:D:3161:VAL:N	2.44	0.50
1:D:3405:LEU:HD22	1:D:3409:TYR:CE2	2.46	0.50
1:D:4985:LEU:HD12	1:D:4986:ALA:N	2.27	0.50
1:C:792:LEU:HD23	1:C:799:GLU:O	2.11	0.50
1:C:887:ILE:HG23	1:C:959:TYR:CD2	2.46	0.50
1:C:1240:LYS:O	1:C:1603:VAL:HA	2.11	0.50
1:C:4205:TRP:CE3	1:C:4989:MET:HE2	2.46	0.50
1:A:1862:ILE:HA	1:A:1865:MET:SD	2.52	0.50
1:A:3104:GLU:HA	1:A:3107:VAL:HG22	1.94	0.50
1:A:3716:LEU:HD11	1:A:3782:MET:HE1	1.93	0.50
1:B:972:LEU:CD1	1:B:1044:ARG:HG2	2.41	0.50
1:B:1724:CYS:SG	1:B:1851:MET:HE2	2.52	0.50
1:B:2475:GLN:OE1	1:B:2488:PRO:HG3	2.12	0.50
1:B:2530:MET:SD	1:B:2554:LEU:CD2	3.00	0.50
1:D:776:LEU:HD21	1:D:848:HIS:HA	1.94	0.50
1:D:941:MET:HE1	1:D:1051:TYR:CE1	2.47	0.50
1:D:1245:PHE:CD2	1:D:1600:LEU:HD13	2.46	0.50
1:D:3734:HIS:C	1:D:3735:LEU:HD23	2.36	0.50
1:D:4241:THR:C	1:D:4245:MET:SD	2.94	0.50
1:C:2199:ARG:NH2	1:C:2246:ASN:OD1	2.44	0.50
1:C:2758:PHE:CE2	1:C:2926:LEU:HD13	2.47	0.50
1:C:2779:GLU:O	1:C:2792:ARG:NH1	2.45	0.50
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.30	0.50
1:C:2973:PHE:HA	1:C:2976:HIS:CD2	2.47	0.50
1:C:3039:ILE:HG12	1:C:3071:LEU:HD11	1.94	0.50
1:C:4885:PHE:HE2	1:C:4897:ILE:HD11	1.74	0.50
1:A:509:GLU:O	1:A:513:GLU:OE1	2.29	0.50
1:A:776:LEU:HD21	1:A:848:HIS:HA	1.94	0.50
1:A:887:ILE:HG23	1:A:959:TYR:CD2	2.46	0.50
1:A:2199:ARG:NH2	1:A:2246:ASN:OD1	2.44	0.50
1:A:2381:GLU:HB3	1:A:2385:ARG:NH1	2.26	0.50
1:A:3249:LEU:HD21	1:A:3273:THR:CG2	2.40	0.50
1:A:3432:GLU:HB3	1:A:3524:MET:CE	2.41	0.50
1:A:4632:LEU:HD12	1:A:4640:GLU:HG3	1.94	0.50
1:B:1230:MET:HE1	1:B:1234:VAL:HG22	1.93	0.50
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.27	0.50
1:B:2523:ASP:OD1	1:B:2524:VAL:N	2.44	0.50
1:B:2822:THR:OG1	1:B:2938:THR:OG1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:776:LEU:HD21	1:C:848:HIS:HA	1.94	0.50
1:C:941:MET:HE1	1:C:1051:TYR:CE1	2.47	0.50
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.11	0.50
1:A:616:SER:O	1:A:620:LEU:HG	2.12	0.50
1:A:1453:VAL:HG12	1:A:1492:CYS:HB2	1.94	0.50
1:A:2641:LEU:HD13	1:A:2698:MET:HG3	1.94	0.50
1:A:2684:ASP:O	1:A:2688:HIS:ND1	2.35	0.50
1:A:2887:GLY:HA3	1:A:2905:LEU:HD22	1.94	0.50
1:A:3137:LEU:HB3	1:A:3138:PRO:HD3	1.93	0.50
1:A:3415:TYR:O	1:A:3419:ASN:ND2	2.35	0.50
2:E:90:ILE:HG22	2:E:91:ILE:HG13	1.94	0.50
2:H:102:GLU:OE2	2:H:104:LEU:HG	2.12	0.50
2:G:57:ARG:O	2:G:58:GLY:C	2.54	0.50
1:B:553:ARG:NE	1:B:555:GLU:OE2	2.44	0.50
1:B:650:VAL:O	1:B:777:PHE:N	2.38	0.50
1:B:2716:ASP:OD1	1:B:2717:ALA:N	2.45	0.50
1:B:3015:LEU:O	1:B:3019:SER:OG	2.18	0.50
1:B:3039:ILE:HG12	1:B:3071:LEU:HD11	1.94	0.50
1:B:3100:SER:O	1:B:3103:ILE:N	2.45	0.50
1:D:3100:SER:O	1:D:3103:ILE:N	2.45	0.50
1:D:3274:LEU:HD22	1:D:3319:ILE:HD11	1.94	0.50
1:D:4956:THR:O	1:D:4965:SER:OG	2.28	0.50
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.11	0.50
1:C:2475:GLN:OE1	1:C:2488:PRO:HG3	2.12	0.50
1:C:2716:ASP:OD1	1:C:2717:ALA:N	2.45	0.50
1:C:2739:PRO:HG3	1:C:2885:THR:HA	1.93	0.50
1:C:3230:LEU:CD1	1:C:3232:LEU:HD13	2.40	0.50
1:C:4134:GLU:HB2	1:C:4135:PRO:HD3	1.94	0.50
1:A:368:ARG:NH2	1:A:2308:GLN:HB2	2.27	0.49
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.11	0.49
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.30	0.49
1:A:4071:ILE:CG2	1:A:4097:MET:HE1	2.41	0.49
1:A:4655:PHE:HA	1:A:4796:MET:HE1	1.92	0.49
1:B:244:LEU:HD22	1:B:375:LYS:HE2	1.94	0.49
1:B:887:ILE:HG23	1:B:959:TYR:CD2	2.46	0.49
1:B:3531:ASP:O	1:B:3535:LEU:HG	2.12	0.49
1:B:4134:GLU:HB2	1:B:4135:PRO:HD3	1.94	0.49
1:B:4168:GLU:HA	1:B:4171:LEU:HD12	1.94	0.49
1:B:4750:ILE:HA	1:B:4753:HIS:CD2	2.47	0.49
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.12	0.49
1:D:244:LEU:HD22	1:D:375:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1527:MET:HE2	1:D:1542:VAL:CG1	2.42	0.49
1:D:2034:PHE:O	1:D:2037:ASP:OD1	2.30	0.49
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.11	0.49
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.27	0.49
1:D:3201:MET:HE2	1:D:3203:VAL:HG22	1.92	0.49
1:D:3531:ASP:O	1:D:3535:LEU:HG	2.12	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:NH1	2.45	0.49
1:D:4984:ASN:OD1	1:D:4986:ALA:HB3	2.12	0.49
1:C:368:ARG:NH2	1:C:2308:GLN:HB2	2.27	0.49
1:C:638:ILE:HD13	1:C:702:TRP:O	2.11	0.49
1:C:2642:LYS:HB2	1:C:2698:MET:HE1	1.93	0.49
1:C:3432:GLU:HB3	1:C:3524:MET:HE1	1.93	0.49
1:C:3996:PHE:O	1:C:4000:MET:HG3	2.12	0.49
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.12	0.49
1:A:2767:ALA:HA	1:A:2791:LEU:HD11	1.93	0.49
1:A:2801:ASP:HA	1:A:2804:ILE:HG12	1.94	0.49
1:A:2880:GLU:HA	1:A:2883:HIS:HE1	1.77	0.49
1:A:2957:PHE:CD1	1:A:3038:MET:HE1	2.47	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG2	2.11	0.49
1:A:3607:GLU:N	1:A:3607:GLU:OE1	2.45	0.49
1:A:3842:LEU:CD2	1:A:3875:MET:HE2	2.43	0.49
1:A:4157:ASP:N	1:A:4161:ARG:NH1	2.59	0.49
2:E:37:ASP:OD1	2:E:42:ARG:NH1	2.43	0.49
2:H:57:ARG:O	2:H:58:GLY:C	2.54	0.49
1:B:2215:LEU:HD23	1:B:2223:ILE:HD11	1.92	0.49
1:B:2929:PHE:O	1:B:2932:MET:HG2	2.12	0.49
1:B:4632:LEU:HD12	1:B:4640:GLU:HG3	1.94	0.49
1:D:2684:ASP:O	1:D:2688:HIS:ND1	2.35	0.49
1:D:2977:LEU:HD22	1:D:3056:LEU:HD23	1.94	0.49
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.12	0.49
1:C:2764:GLU:HB3	1:C:2857:PRO:HB3	1.94	0.49
1:C:4003:LEU:HD23	1:C:4009:GLN:OE1	2.12	0.49
1:C:4168:GLU:HA	1:C:4171:LEU:HD12	1.94	0.49
1:C:4750:ILE:HA	1:C:4753:HIS:CD2	2.47	0.49
1:A:672:VAL:O	1:A:680:THR:OG1	2.25	0.49
1:A:1573:MET:SD	1:A:1574:PRO:HD2	2.52	0.49
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.27	0.49
1:A:2751:LEU:O	1:A:2751:LEU:HD23	2.13	0.49
1:A:3039:ILE:HG12	1:A:3071:LEU:HD11	1.94	0.49
1:A:3326:ASN:O	1:A:3329:ILE:HG12	2.13	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4985:LEU:HD12	1:A:4986:ALA:N	2.27	0.49
2:F:102:GLU:OE2	2:F:104:LEU:HG	2.12	0.49
1:B:2641:LEU:HD13	1:B:2698:MET:HG3	1.94	0.49
1:B:2779:GLU:O	1:B:2792:ARG:NH1	2.45	0.49
1:B:3100:SER:OG	1:B:3167:ARG:NH1	2.45	0.49
1:D:504:ALA:HB2	1:D:512:ALA:CB	2.40	0.49
1:D:1453:VAL:HG12	1:D:1492:CYS:HB2	1.94	0.49
1:C:3299:GLY:O	1:C:3300:ALA:HB2	2.11	0.49
1:C:3716:LEU:HD11	1:C:3782:MET:HE1	1.93	0.49
1:C:4632:LEU:HD12	1:C:4640:GLU:HG3	1.94	0.49
1:A:2716:ASP:OD1	1:A:2717:ALA:N	2.45	0.49
1:A:2725:LYS:HD2	1:A:2736:ASP:OD1	2.11	0.49
1:A:2973:PHE:HA	1:A:2976:HIS:CD2	2.47	0.49
2:H:90:ILE:HG22	2:H:91:ILE:HG13	1.94	0.49
1:B:1126:GLY:O	1:B:1129:GLY:N	2.44	0.49
1:B:2758:PHE:CE2	1:B:2926:LEU:HD13	2.47	0.49
1:B:2957:PHE:CD1	1:B:3038:MET:HE1	2.47	0.49
1:D:1141:ARG:HB2	1:C:3479:ALA:HB1	1.94	0.49
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.37	0.49
1:D:4157:ASP:OD2	1:D:4159:ARG:NH2	2.40	0.49
1:C:3274:LEU:HD22	1:C:3319:ILE:HD11	1.94	0.49
1:A:504:ALA:HB2	1:A:512:ALA:CB	2.41	0.49
1:A:701:GLY:N	1:A:1645:ASN:O	2.37	0.49
1:A:2977:LEU:HD22	1:A:3056:LEU:HD23	1.95	0.49
1:A:3409:TYR:OH	1:A:3441:ILE:HG21	2.13	0.49
1:A:3500:GLY:O	1:A:3504:SER:OG	2.25	0.49
1:A:3533:ILE:O	1:A:3537:LYS:HG2	2.13	0.49
1:A:4168:GLU:HA	1:A:4171:LEU:HD12	1.94	0.49
1:A:4984:ASN:OD1	1:A:4986:ALA:HB3	2.12	0.49
1:B:1527:MET:HE2	1:B:1542:VAL:CG1	2.42	0.49
1:B:2463:LEU:O	1:B:2467:VAL:HG23	2.13	0.49
1:B:3562:LYS:HZ2	1:B:3564:GLU:C	2.21	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:CZ	2.61	0.49
1:B:3716:LEU:HD11	1:B:3782:MET:HE1	1.93	0.49
1:D:553:ARG:NE	1:D:555:GLU:OE2	2.44	0.49
1:D:2475:GLN:OE1	1:D:2488:PRO:HG3	2.12	0.49
1:D:2822:THR:OG1	1:D:2938:THR:OG1	2.30	0.49
1:D:3039:ILE:HG12	1:D:3071:LEU:HD11	1.94	0.49
1:D:3326:ASN:O	1:D:3329:ILE:HG12	2.13	0.49
1:D:3607:GLU:N	1:D:3607:GLU:OE1	2.45	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:CZ	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3842:LEU:CD2	1:D:3875:MET:HE2	2.42	0.49
1:D:3957:VAL:O	1:D:3961:VAL:HG23	2.11	0.49
1:D:4003:LEU:HD23	1:D:4009:GLN:OE1	2.12	0.49
1:D:4168:GLU:HA	1:D:4171:LEU:HD12	1.94	0.49
1:D:4632:LEU:HD12	1:D:4640:GLU:HG3	1.94	0.49
1:C:1448:VAL:HB	1:C:1554:VAL:HG23	1.95	0.49
1:C:2523:ASP:OD1	1:C:2524:VAL:N	2.44	0.49
1:C:2929:PHE:O	1:C:2932:MET:HG2	2.13	0.49
1:C:3100:SER:O	1:C:3103:ILE:N	2.45	0.49
1:C:3696:ASP:OD2	1:C:3773:ARG:CZ	2.61	0.49
1:A:3562:LYS:HZ2	1:A:3564:GLU:C	2.21	0.49
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.12	0.49
1:A:4879:MET:HG2	1:D:4580:TYR:O	2.12	0.49
2:G:1:GLY:N	2:G:80:TYR:CD2	2.80	0.49
1:B:2642:LYS:HB2	1:B:2698:MET:HE1	1.93	0.49
1:D:1448:VAL:HB	1:D:1554:VAL:HG23	1.95	0.49
1:D:2667:THR:HG1	1:D:2671:GLU:CD	2.10	0.49
1:D:2725:LYS:HD2	1:D:2736:ASP:OD1	2.12	0.49
1:D:2739:PRO:HG3	1:D:2885:THR:HA	1.94	0.49
1:D:2887:GLY:HA3	1:D:2905:LEU:HD22	1.94	0.49
1:C:2612[A]:ARG:HH11	1:C:2613:TYR:N	2.11	0.49
1:C:2742:THR:CG2	1:C:2814:LYS:HB3	2.41	0.49
1:C:2801:ASP:HA	1:C:2804:ILE:HG12	1.94	0.49
1:C:2887:GLY:HA3	1:C:2905:LEU:HD22	1.94	0.49
1:C:3158:LEU:HG	1:C:3159:ASP:N	2.28	0.49
1:C:4686:LEU:O	1:C:4691:GLN:N	2.33	0.49
1:A:722:TRP:CE2	1:A:727:ALA:HB2	2.48	0.49
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.39	0.49
1:A:2476:ILE:HG23	1:A:2536:LEU:HD11	1.95	0.49
1:A:2894:LEU:O	1:A:2898:GLY:N	2.36	0.49
1:A:3100:SER:O	1:A:3103:ILE:N	2.45	0.49
2:H:1:GLY:N	2:H:80:TYR:CD2	2.80	0.49
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.52	0.49
1:B:2801:ASP:HA	1:B:2804:ILE:HG12	1.94	0.49
1:B:3533:ILE:O	1:B:3537:LYS:HG2	2.13	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:NH1	2.45	0.49
1:D:616:SER:O	1:D:620:LEU:HG	2.12	0.49
1:D:1573:MET:SD	1:D:1574:PRO:HD2	2.52	0.49
1:D:3562:LYS:HZ2	1:D:3564:GLU:C	2.21	0.49
1:D:4745:LEU:C	1:D:4749:GLU:OE1	2.56	0.49
1:C:2265:LEU:HD12	1:C:2266:GLY:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2641:LEU:HD13	1:C:2698:MET:HG3	1.94	0.49
1:C:3533:ILE:O	1:C:3537:LYS:HG2	2.13	0.49
1:A:1105:ALA:O	1:A:1189:LEU:N	2.41	0.49
1:A:2165:LEU:CD1	1:A:2177:LEU:HD22	2.43	0.49
1:A:2463:LEU:O	1:A:2467:VAL:HG23	2.13	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:CZ	2.61	0.49
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.13	0.49
2:F:1:GLY:N	2:F:80:TYR:CD2	2.80	0.49
1:B:880:GLU:O	1:B:884:LEU:HG	2.13	0.49
1:D:1506:GLN:O	1:C:2774:ASN:ND2	2.42	0.49
1:D:2340:PHE:HB2	1:D:2435:ARG:HB3	1.95	0.49
1:D:2967:MET:O	1:D:2970:SER:OG	2.14	0.49
1:D:3107:VAL:O	1:D:3111:ARG:HG2	2.13	0.49
1:D:3499:ARG:HH12	1:D:3503:TYR:HB3	1.78	0.49
1:D:4134:GLU:HB2	1:D:4135:PRO:HD3	1.94	0.49
1:C:1995:THR:O	1:C:1999:ARG:HG2	2.13	0.49
1:C:2670:GLU:OE1	1:C:2670:GLU:N	2.42	0.49
1:C:3137:LEU:HB3	1:C:3138:PRO:HD3	1.93	0.49
1:C:3607:GLU:OE1	1:C:3607:GLU:N	2.45	0.49
1:C:4745:LEU:C	1:C:4749:GLU:OE1	2.56	0.49
1:A:2779:GLU:O	1:A:2792:ARG:NH1	2.45	0.49
1:A:2929:PHE:O	1:A:2932:MET:HG2	2.13	0.49
1:A:3499:ARG:HH12	1:A:3503:TYR:HB3	1.78	0.49
1:A:4134:GLU:HB2	1:A:4135:PRO:HD3	1.94	0.49
2:G:102:GLU:OE2	2:G:104:LEU:HG	2.12	0.49
1:B:2012:PHE:HZ	1:B:2031:LEU:HD23	1.75	0.49
1:B:2742:THR:CG2	1:B:2814:LYS:HB3	2.41	0.49
1:B:2751:LEU:HD23	1:B:2751:LEU:O	2.13	0.49
1:B:2764:GLU:HB3	1:B:2857:PRO:HB3	1.94	0.49
1:B:3024:VAL:HG23	1:B:3024:VAL:O	2.13	0.49
1:B:3104:GLU:HA	1:B:3107:VAL:HG22	1.94	0.49
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.13	0.49
1:B:3996:PHE:O	1:B:4000:MET:HG3	2.13	0.49
1:B:4060:LYS:O	1:B:4064:MET:HG3	2.13	0.49
1:B:4071:ILE:CG2	1:B:4097:MET:HE1	2.41	0.49
1:B:4984:ASN:OD1	1:B:4986:ALA:HB3	2.12	0.49
1:D:368:ARG:NH2	1:D:2308:GLN:HB2	2.27	0.49
1:D:2538:THR:O	1:D:2542:SER:OG	2.31	0.49
1:D:3100:SER:OG	1:D:3167:ARG:NH1	2.46	0.49
1:D:3164:SER:O	1:D:3168:THR:HG23	2.13	0.49
1:D:3409:TYR:OH	1:D:3441:ILE:HG21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:616:SER:O	1:C:620:LEU:HG	2.12	0.49
1:C:2806:ARG:O	1:C:2810:LYS:N	2.32	0.49
1:C:2977:LEU:HD22	1:C:3056:LEU:HD23	1.94	0.49
1:A:244:LEU:HD22	1:A:375:LYS:HE2	1.93	0.49
1:A:920:TYR:HA	1:A:923:GLN:OE1	2.13	0.49
1:A:1699:GLU:HA	1:A:1814:MET:HE2	1.95	0.49
1:A:2806:ARG:O	1:A:2810:LYS:N	2.32	0.49
1:A:3052:HIS:NE2	1:A:3128:ASN:CG	2.65	0.49
2:E:1:GLY:N	2:E:80:TYR:CD2	2.81	0.49
1:B:371:VAL:HG12	1:B:373:LYS:H	1.78	0.49
1:B:883:ALA:HB1	1:B:907:LEU:HD13	1.95	0.49
1:B:2165:LEU:CD1	1:B:2177:LEU:HD22	2.43	0.49
1:B:2880:GLU:HA	1:B:2883:HIS:HE1	1.77	0.49
1:B:3775:ALA:O	1:B:3779:VAL:HG23	2.13	0.49
1:D:2641:LEU:HD13	1:D:2698:MET:HG3	1.94	0.49
1:D:2751:LEU:HD23	1:D:2751:LEU:O	2.13	0.49
1:D:2973:PHE:HA	1:D:2976:HIS:CD2	2.47	0.49
1:D:3510:ILE:HG23	1:D:3511:VAL:N	2.28	0.49
1:D:4056:GLU:HG3	1:D:4166:LEU:HD13	1.95	0.49
1:D:4157:ASP:H	1:D:4161:ARG:NH1	2.09	0.49
1:C:244:LEU:HD22	1:C:375:LYS:HE2	1.94	0.49
1:C:2290:LEU:HD23	1:C:2291:GLN:N	2.28	0.49
1:C:2520:HIS:O	1:C:2523:ASP:OD1	2.31	0.49
1:C:2776:SER:O	1:C:2787:THR:HG21	2.13	0.49
1:C:3107:VAL:O	1:C:3111:ARG:HG2	2.13	0.49
1:C:3531:ASP:O	1:C:3535:LEU:HG	2.12	0.49
1:A:2340:PHE:HB2	1:A:2435:ARG:HB3	1.95	0.48
1:A:2530:MET:SD	1:A:2554:LEU:CD2	3.00	0.48
1:A:3158:LEU:HG	1:A:3159:ASP:N	2.28	0.48
1:A:3510:ILE:HG23	1:A:3511:VAL:N	2.28	0.48
1:B:1448:VAL:HB	1:B:1554:VAL:HG23	1.95	0.48
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.27	0.48
1:B:2238:TYR:O	1:B:2241:ARG:N	2.46	0.48
1:B:2575:ARG:CZ	1:B:2578:MET:HE1	2.43	0.48
1:D:722:TRP:CE2	1:D:727:ALA:HB2	2.48	0.48
1:D:2369[A]:ARG:NH2	1:D:2372:GLY:O	2.45	0.48
1:D:2520:HIS:O	1:D:2523:ASP:OD1	2.31	0.48
1:D:2530:MET:SD	1:D:2554:LEU:CD2	3.00	0.48
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	1.94	0.48
1:D:3158:LEU:HG	1:D:3159:ASP:N	2.28	0.48
1:D:3996:PHE:O	1:D:4000:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4071:ILE:CG2	1:D:4097:MET:HE1	2.41	0.48
1:C:2437:ALA:HB3	1:C:2508:ARG:HE	1.78	0.48
1:C:3504:SER:O	1:C:3507:THR:OG1	2.26	0.48
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.13	0.48
1:A:1448:VAL:HB	1:A:1554:VAL:HG23	1.95	0.48
1:A:2034:PHE:O	1:A:2037:ASP:OD1	2.30	0.48
1:A:3100:SER:OG	1:A:3167:ARG:NH1	2.46	0.48
1:A:4821:LYS:O	1:A:4825:THR:HG23	2.13	0.48
2:F:90:ILE:HG22	2:F:91:ILE:HG13	1.94	0.48
1:B:1995:THR:O	1:B:1999:ARG:HG2	2.13	0.48
1:B:2265:LEU:HD12	1:B:2266:GLY:N	2.28	0.48
1:B:2290:LEU:HD23	1:B:2291:GLN:N	2.28	0.48
1:B:3409:TYR:OH	1:B:3441:ILE:HG21	2.13	0.48
1:B:4157:ASP:N	1:B:4161:ARG:NH1	2.59	0.48
1:B:4821:LYS:O	1:B:4825:THR:HG23	2.13	0.48
1:D:2463:LEU:O	1:D:2467:VAL:HG23	2.13	0.48
1:D:4821:LYS:O	1:D:4825:THR:HG23	2.13	0.48
1:C:210:GLU:OE1	1:C:273:HIS:NE2	2.46	0.48
1:C:978:THR:HG23	1:C:981:GLN:OE1	2.14	0.48
1:C:1527:MET:HE2	1:C:1542:VAL:CG1	2.42	0.48
1:C:1699:GLU:HA	1:C:1814:MET:HE2	1.95	0.48
1:C:2340:PHE:HB2	1:C:2435:ARG:HB3	1.94	0.48
1:C:2463:LEU:O	1:C:2467:VAL:HG23	2.13	0.48
1:C:3842:LEU:CD2	1:C:3875:MET:HE2	2.43	0.48
1:C:4821:LYS:O	1:C:4825:THR:HG23	2.13	0.48
1:A:210:GLU:OE1	1:A:273:HIS:NE2	2.46	0.48
1:A:273:HIS:CE1	1:A:334:MET:HB3	2.49	0.48
1:A:462:GLU:HG2	1:A:463:GLU:N	2.28	0.48
1:A:880:GLU:O	1:A:884:LEU:HG	2.13	0.48
1:A:941:MET:HE1	1:A:1051:TYR:CE1	2.47	0.48
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.95	0.48
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.79	0.48
1:A:2265:LEU:HD12	1:A:2266:GLY:N	2.28	0.48
1:A:2675:THR:CG2	1:A:2706:ILE:HG23	2.44	0.48
1:A:3640:PRO:O	1:A:3643:ASN:N	2.41	0.48
1:B:616:SER:O	1:B:620:LEU:HG	2.12	0.48
1:B:787:VAL:HG22	1:B:789:VAL:HG23	1.96	0.48
1:B:941:MET:HE1	1:B:1051:TYR:CE1	2.47	0.48
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.79	0.48
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:CZ	2.43	0.48
1:B:3107:VAL:O	1:B:3111:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3326:ASN:O	1:B:3329:ILE:HG12	2.13	0.48
1:B:3635:CYS:HA	1:B:3638:MET:HE3	1.94	0.48
1:B:4003:LEU:HD23	1:B:4009:GLN:OE1	2.12	0.48
1:D:273:HIS:CE1	1:D:334:MET:HB3	2.49	0.48
1:D:790:ARG:HG3	1:D:1626:TRP:O	2.14	0.48
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.95	0.48
1:D:1995:THR:O	1:D:1999:ARG:HG2	2.13	0.48
1:D:2675:THR:CG2	1:D:2706:ILE:HG23	2.44	0.48
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.13	0.48
1:C:371:VAL:HG12	1:C:373:LYS:H	1.78	0.48
1:C:722:TRP:CE2	1:C:727:ALA:HB2	2.48	0.48
1:C:920:TYR:HA	1:C:923:GLN:OE1	2.13	0.48
1:C:2751:LEU:O	1:C:2751:LEU:HD23	2.13	0.48
1:C:4984:ASN:OD1	1:C:4986:ALA:HB3	2.12	0.48
1:A:2612[A]:ARG:HH11	1:A:2613:TYR:N	2.11	0.48
1:A:3996:PHE:O	1:A:4000:MET:HG3	2.13	0.48
1:B:2476:ILE:HG23	1:B:2536:LEU:HD11	1.95	0.48
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.35	0.48
1:D:462:GLU:HG2	1:D:463:GLU:N	2.28	0.48
1:D:1699:GLU:HA	1:D:1814:MET:HE2	1.95	0.48
1:D:1929:MET:O	1:D:1930:LYS:HB3	2.13	0.48
1:D:2165:LEU:CD1	1:D:2177:LEU:HD22	2.43	0.48
1:D:2290:LEU:HD23	1:D:2291:GLN:N	2.28	0.48
1:D:2437:ALA:HB3	1:D:2508:ARG:HE	1.78	0.48
1:D:3024:VAL:O	1:D:3024:VAL:HG23	2.13	0.48
1:C:614:VAL:HG22	1:C:2169:GLN:NE2	2.29	0.48
1:C:790:ARG:HG3	1:C:1626:TRP:O	2.14	0.48
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.95	0.48
1:C:2530:MET:SD	1:C:2554:LEU:CD2	3.00	0.48
1:C:3104:GLU:HA	1:C:3107:VAL:HG22	1.94	0.48
1:C:3326:ASN:O	1:C:3329:ILE:HG12	2.13	0.48
1:A:2290:LEU:HD23	1:A:2291:GLN:N	2.28	0.48
1:A:2437:ALA:HB3	1:A:2508:ARG:HE	1.78	0.48
1:A:2575:ARG:CZ	1:A:2578:MET:HE1	2.43	0.48
1:A:3635:CYS:HA	1:A:3638:MET:HE3	1.94	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4552:LEU:HD12	1:A:4663:CYS:SG	2.53	0.48
1:A:4848:VAL:HG11	1:A:4887:MET:HG2	1.96	0.48
1:A:4902:GLU:O	1:A:4913:ARG:CZ	2.62	0.48
2:G:90:ILE:HG22	2:G:91:ILE:HG13	1.94	0.48
1:B:462:GLU:HG2	1:B:463:GLU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:722:TRP:CE2	1:B:727:ALA:HB2	2.48	0.48
1:B:2034:PHE:O	1:B:2037:ASP:OD1	2.30	0.48
1:B:2381:GLU:CB	1:B:2385:ARG:HH12	2.27	0.48
1:B:2776:SER:O	1:B:2787:THR:HG21	2.13	0.48
1:B:4848:VAL:HG11	1:B:4887:MET:HG2	1.96	0.48
1:B:4911:LEU:O	1:B:4914:VAL:HG22	2.13	0.48
1:D:880:GLU:O	1:D:884:LEU:HG	2.13	0.48
1:D:1286:MET:HG3	1:D:1461:ASP:O	2.13	0.48
1:D:2238:TYR:O	1:D:2241:ARG:N	2.46	0.48
1:D:2575:ARG:CZ	1:D:2578:MET:HE1	2.43	0.48
1:D:2880:GLU:HA	1:D:2883:HIS:HE1	1.77	0.48
1:D:2916:LYS:HG3	1:D:2920:ARG:HB2	1.96	0.48
1:C:1573:MET:SD	1:C:1574:PRO:HD2	2.52	0.48
1:C:1929:MET:O	1:C:1930:LYS:HB3	2.13	0.48
1:C:2575:ARG:CZ	1:C:2578:MET:HE1	2.43	0.48
1:C:3024:VAL:HG23	1:C:3024:VAL:O	2.13	0.48
1:C:3164:SER:O	1:C:3168:THR:HG23	2.13	0.48
1:C:4848:VAL:HG11	1:C:4887:MET:HG2	1.96	0.48
1:A:110:ARG:HD3	1:A:115:ARG:HE	1.79	0.48
1:A:1126:GLY:O	1:A:1129:GLY:N	2.44	0.48
1:A:1286:MET:HG3	1:A:1461:ASP:O	2.13	0.48
1:A:1527:MET:HE2	1:A:1542:VAL:CG1	2.42	0.48
1:A:2776:SER:O	1:A:2787:THR:HG21	2.13	0.48
1:A:2929:PHE:CD1	1:A:2932:MET:SD	3.07	0.48
1:A:3024:VAL:HG23	1:A:3024:VAL:O	2.13	0.48
1:A:3107:VAL:O	1:A:3111:ARG:HG2	2.13	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.13	0.48
1:A:4157:ASP:H	1:A:4161:ARG:NH1	2.09	0.48
1:A:4686:LEU:O	1:A:4691:GLN:N	2.33	0.48
1:A:4876:CYS:HA	1:A:4882:CYS:HB2	1.96	0.48
2:F:37:ASP:OD1	2:F:42:ARG:NH1	2.43	0.48
1:B:273:HIS:CE1	1:B:334:MET:HB3	2.49	0.48
1:B:790:ARG:HG3	1:B:1626:TRP:O	2.14	0.48
1:B:920:TYR:HA	1:B:923:GLN:OE1	2.13	0.48
1:B:2612[A]:ARG:HH11	1:B:2613:TYR:N	2.11	0.48
1:B:3274:LEU:HD22	1:B:3319:ILE:HD11	1.94	0.48
1:D:978:THR:HG23	1:D:981:GLN:OE1	2.14	0.48
1:D:2381:GLU:CB	1:D:2385:ARG:HH12	2.27	0.48
1:D:2476:ILE:HG23	1:D:2536:LEU:HD11	1.95	0.48
1:D:2929:PHE:CD1	1:D:2932:MET:SD	3.07	0.48
1:D:3270:ILE:H	1:D:3270:ILE:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3635:CYS:HA	1:D:3638:MET:HE3	1.94	0.48
1:C:2238:TYR:O	1:C:2241:ARG:N	2.46	0.48
1:C:4911:LEU:O	1:C:4914:VAL:HG22	2.13	0.48
1:A:371:VAL:HG12	1:A:373:LYS:H	1.78	0.48
1:A:1995:THR:O	1:A:1999:ARG:HG2	2.13	0.48
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:CZ	2.43	0.48
1:A:3164:SER:O	1:A:3168:THR:HG23	2.13	0.48
1:B:1929:MET:O	1:B:1930:LYS:HB3	2.13	0.48
1:B:2255:SER:O	1:B:2258:LEU:HB2	2.14	0.48
1:B:2340:PHE:HB2	1:B:2435:ARG:HB3	1.95	0.48
1:B:2520:HIS:O	1:B:2523:ASP:OD1	2.31	0.48
1:B:2977:LEU:HD22	1:B:3056:LEU:HD23	1.95	0.48
1:B:3607:GLU:OE1	1:B:3607:GLU:N	2.45	0.48
1:D:1699:GLU:OE2	1:D:1813:ARG:NH2	2.47	0.48
1:D:2265:LEU:HD12	1:D:2266:GLY:N	2.28	0.48
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:CZ	2.43	0.48
1:D:2668:SER:O	1:D:2669:GLU:CG	2.60	0.48
1:D:2703:LEU:HD12	1:D:2703:LEU:C	2.39	0.48
1:D:3111:ARG:NH2	1:D:3178:THR:HG21	2.29	0.48
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.13	0.48
1:C:368:ARG:HH22	1:C:2308:GLN:HB2	1.79	0.48
1:C:883:ALA:HB1	1:C:907:LEU:HD13	1.95	0.48
1:C:2929:PHE:CD1	1:C:2932:MET:SD	3.07	0.48
1:C:3924:LEU:O	1:C:3927:GLN:HG3	2.13	0.48
1:C:4552:LEU:HD12	1:C:4663:CYS:SG	2.53	0.48
1:A:790:ARG:HG3	1:A:1626:TRP:O	2.14	0.48
1:A:2667:THR:HG1	1:A:2671:GLU:CD	2.12	0.48
1:A:2801:ASP:O	1:A:2804:ILE:HG12	2.14	0.48
1:A:3270:ILE:H	1:A:3270:ILE:HD12	1.79	0.48
1:A:4003:LEU:HD23	1:A:4009:GLN:OE1	2.12	0.48
1:A:4745:LEU:C	1:A:4749:GLU:OE1	2.56	0.48
1:B:210:GLU:OE1	1:B:273:HIS:NE2	2.46	0.48
1:B:368:ARG:HH22	1:B:2308:GLN:HB2	1.79	0.48
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.95	0.48
1:B:2541:PHE:HA	1:B:2544:THR:HG23	1.95	0.48
1:B:2916:LYS:HG3	1:B:2920:ARG:HB2	1.96	0.48
1:B:3479:ALA:HB1	1:C:1141:ARG:HB2	1.96	0.48
1:B:4149:ASN:OD1	1:B:4153:HIS:ND1	2.47	0.48
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.13	0.48
1:B:4902:GLU:O	1:B:4913:ARG:CZ	2.62	0.48
1:D:210:GLU:OE1	1:D:273:HIS:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:371:VAL:HG12	1:D:373:LYS:H	1.78	0.48
1:D:614:VAL:HG22	1:D:2169:GLN:NE2	2.29	0.48
1:D:920:TYR:HA	1:D:923:GLN:OE1	2.13	0.48
1:D:2776:SER:O	1:D:2787:THR:HG21	2.13	0.48
1:D:2801:ASP:HA	1:D:2804:ILE:HG12	1.94	0.48
1:D:3105:LYS:CE	1:D:3128:ASN:HD22	2.27	0.48
1:D:3427:PRO:CD	1:D:3579:LEU:HD21	2.41	0.48
1:D:3533:ILE:O	1:D:3537:LYS:HG2	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:D:4848:VAL:HG11	1:D:4887:MET:HG2	1.96	0.48
1:D:4911:LEU:O	1:D:4914:VAL:HG22	2.13	0.48
1:C:2165:LEU:CD1	1:C:2177:LEU:HD22	2.43	0.48
1:C:2684:ASP:O	1:C:2688:HIS:ND1	2.35	0.48
1:C:2700:MET:O	1:C:2704:CYS:SG	2.72	0.48
1:C:3635:CYS:HA	1:C:3638:MET:HE3	1.94	0.48
1:C:4056:GLU:HG3	1:C:4166:LEU:HD13	1.95	0.48
1:C:4060:LYS:O	1:C:4064:MET:HG3	2.13	0.48
1:C:4157:ASP:N	1:C:4161:ARG:NH1	2.59	0.48
1:A:2381:GLU:CB	1:A:2385:ARG:HH12	2.27	0.48
1:A:2703:LEU:C	1:A:2703:LEU:HD12	2.39	0.48
1:A:3274:LEU:HD22	1:A:3319:ILE:HD11	1.94	0.48
1:A:3924:LEU:O	1:A:3927:GLN:HG3	2.13	0.48
1:B:1286:MET:HG3	1:B:1461:ASP:O	2.13	0.48
1:B:1699:GLU:OE2	1:B:1813:ARG:NH2	2.47	0.48
1:B:3158:LEU:HG	1:B:3159:ASP:N	2.28	0.48
1:B:3164:SER:O	1:B:3168:THR:HG23	2.13	0.48
1:B:3209:GLN:HG2	1:B:3210:LEU:HG	1.96	0.48
1:B:4027:LEU:CD2	1:B:4044:MET:HE2	2.41	0.48
1:B:4552:LEU:HD12	1:B:4663:CYS:SG	2.53	0.48
1:B:4686:LEU:O	1:B:4691:GLN:N	2.33	0.48
1:D:2166:LEU:CD1	1:D:2206:THR:HG23	2.44	0.48
1:D:3640:PRO:O	1:D:3643:ASN:N	2.41	0.48
1:D:3924:LEU:O	1:D:3927:GLN:HG3	2.13	0.48
1:C:787:VAL:HG22	1:C:789:VAL:HG23	1.96	0.48
1:C:880:GLU:O	1:C:884:LEU:HG	2.13	0.48
1:C:2255:SER:O	1:C:2258:LEU:HB2	2.14	0.48
1:C:2538:THR:O	1:C:2542:SER:OG	2.31	0.48
1:C:2541:PHE:HA	1:C:2544:THR:HG23	1.95	0.48
1:C:2615:ARG:HD3	1:C:2618:MET:HE1	1.96	0.48
1:C:2703:LEU:C	1:C:2703:LEU:HD12	2.39	0.48
1:C:3105:LYS:CE	1:C:3128:ASN:HD22	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3388:GLU:OE1	1:C:3388:GLU:N	2.47	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.13	0.48
1:A:2238:TYR:O	1:A:2241:ARG:N	2.46	0.48
1:A:3209:GLN:HG2	1:A:3210:LEU:HG	1.96	0.48
1:B:172:VAL:HG13	1:B:178:ARG:C	2.39	0.48
1:B:614:VAL:HG22	1:B:2169:GLN:NE2	2.29	0.48
1:B:2929:PHE:CD1	1:B:2932:MET:SD	3.07	0.48
1:B:3510:ILE:HG23	1:B:3511:VAL:N	2.28	0.48
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.48
1:B:4745:LEU:C	1:B:4749:GLU:OE1	2.56	0.48
1:D:632:LEU:O	1:D:634:GLN:NE2	2.45	0.48
1:D:1281:ASN:C	1:D:1281:ASN:OD1	2.57	0.48
1:D:4149:ASN:OD1	1:D:4153:HIS:ND1	2.47	0.48
1:D:4902:GLU:O	1:D:4913:ARG:CZ	2.62	0.48
1:C:172:VAL:HG13	1:C:178:ARG:C	2.39	0.48
1:C:1281:ASN:C	1:C:1281:ASN:OD1	2.57	0.48
1:C:1699:GLU:OE2	1:C:1813:ARG:NH2	2.47	0.48
1:C:2034:PHE:O	1:C:2037:ASP:OD1	2.30	0.48
1:C:2381:GLU:CB	1:C:2385:ARG:HH12	2.27	0.48
1:C:2675:THR:CG2	1:C:2706:ILE:HG23	2.44	0.48
1:C:3499:ARG:HH12	1:C:3503:TYR:HB3	1.78	0.48
1:C:4149:ASN:OD1	1:C:4153:HIS:ND1	2.47	0.48
1:A:206:CYS:HA	1:A:334:MET:CE	2.45	0.47
1:A:514:SER:O	1:A:515:TRP:C	2.57	0.47
1:A:2255:SER:O	1:A:2258:LEU:HB2	2.14	0.47
1:A:4056:GLU:HG3	1:A:4166:LEU:HD13	1.95	0.47
1:A:4149:ASN:OD1	1:A:4153:HIS:ND1	2.47	0.47
1:A:4674:GLU:OE2	1:A:4775:TYR:OH	2.30	0.47
1:A:4911:LEU:O	1:A:4914:VAL:HG22	2.13	0.47
1:B:978:THR:HG23	1:B:981:GLN:OE1	2.14	0.47
1:B:2437:ALA:HB3	1:B:2508:ARG:HE	1.78	0.47
1:B:2685:SER:O	1:B:2689:LYS:HG2	2.14	0.47
1:B:2816:MET:HG2	1:B:2878:LEU:CD1	2.44	0.47
1:B:3546:ASP:O	1:B:3549:VAL:HG22	2.14	0.47
1:B:3842:LEU:CD2	1:B:3875:MET:HE2	2.43	0.47
1:B:4835:LYS:O	1:B:4839:MET:HG2	2.14	0.47
1:D:110:ARG:HD3	1:D:115:ARG:HE	1.79	0.47
1:D:172:VAL:HG13	1:D:178:ARG:C	2.39	0.47
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.79	0.47
1:C:899:ASP:O	1:C:902:ARG:NH2	2.44	0.47
1:C:1286:MET:HG3	1:C:1461:ASP:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2476:ILE:HG23	1:C:2536:LEU:HD11	1.95	0.47
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:CZ	2.43	0.47
1:C:2685:SER:O	1:C:2689:LYS:HG2	2.14	0.47
1:C:2888:ARG:NH2	1:C:2892:GLN:OE1	2.43	0.47
1:C:2988:LYS:HZ1	1:C:2990:PRO:HG3	1.78	0.47
1:C:3100:SER:OG	1:C:3167:ARG:NH1	2.45	0.47
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	1.96	0.47
1:A:172:VAL:HG13	1:A:178:ARG:C	2.39	0.47
1:A:1857:GLU:O	1:A:1861:GLN:OE1	2.32	0.47
1:A:1962:ALA:O	1:A:1966:VAL:HG13	2.14	0.47
1:A:2520:HIS:O	1:A:2523:ASP:OD1	2.31	0.47
1:A:2700:MET:O	1:A:2704:CYS:SG	2.72	0.47
1:A:3162:GLN:O	1:A:3166:TYR:CD2	2.67	0.47
1:A:4060:LYS:O	1:A:4064:MET:HG3	2.13	0.47
1:A:4680:LYS:O	1:A:4685:GLY:N	2.47	0.47
1:B:206:CYS:HA	1:B:334:MET:CE	2.44	0.47
1:B:514:SER:O	1:B:515:TRP:C	2.57	0.47
1:B:3039:ILE:CG1	1:B:3071:LEU:HD11	2.45	0.47
1:D:206:CYS:HA	1:D:334:MET:CE	2.44	0.47
1:D:1857:GLU:O	1:D:1861:GLN:OE1	2.32	0.47
1:D:1962:ALA:O	1:D:1966:VAL:HG13	2.14	0.47
1:D:2036:GLN:O	1:D:2045:GLN:OE1	2.32	0.47
1:D:2292:GLU:HA	1:D:2295:LEU:HD12	1.96	0.47
1:D:2801:ASP:O	1:D:2804:ILE:HG12	2.14	0.47
1:D:2806:ARG:O	1:D:2810:LYS:N	2.32	0.47
1:D:4686:LEU:HG	1:D:4687:TYR:N	2.29	0.47
1:D:4835:LYS:O	1:D:4839:MET:HG2	2.14	0.47
1:C:462:GLU:HG2	1:C:463:GLU:N	2.28	0.47
1:C:2668:SER:O	1:C:2669:GLU:CG	2.59	0.47
1:C:3162:GLN:O	1:C:3166:TYR:CD2	2.67	0.47
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.14	0.47
1:C:3510:ILE:HG23	1:C:3511:VAL:N	2.28	0.47
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:5032:TYR:O	1:C:5036:LEU:N	2.37	0.47
1:A:368:ARG:HH22	1:A:2308:GLN:HB2	1.79	0.47
1:A:614:VAL:HG22	1:A:2169:GLN:NE2	2.29	0.47
1:A:787:VAL:HG22	1:A:789:VAL:HG23	1.96	0.47
1:A:883:ALA:HB1	1:A:907:LEU:HD13	1.95	0.47
1:A:1699:GLU:OE2	1:A:1813:ARG:NH2	2.47	0.47
1:A:2952:GLU:HA	1:A:2957:PHE:CD2	2.50	0.47
1:A:2962:GLN:O	1:A:2966:TRP:HD1	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3283:ARG:HG2	1:A:3287:ARG:NH2	2.28	0.47
1:A:3384:LYS:H	1:A:3387:ALA:HB3	1.78	0.47
1:A:4718:LYS:O	1:A:4722:ARG:NH2	2.48	0.47
2:F:84:ALA:CB	2:F:94:HIS:CE1	2.97	0.47
1:B:632:LEU:O	1:B:634:GLN:NE2	2.45	0.47
1:B:2204:HIS:NE2	1:B:2205:GLU:OE2	2.47	0.47
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	1.96	0.47
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.15	0.47
1:B:4001:MET:HG3	1:B:4057:MET:SD	2.55	0.47
1:D:1207:ASP:O	1:D:1210:SER:OG	2.24	0.47
1:D:2962:GLN:O	1:D:2966:TRP:HD1	1.97	0.47
1:D:3162:GLN:O	1:D:3166:TYR:CD2	2.67	0.47
1:D:3359:ILE:HG23	1:D:3437:MET:HE1	1.96	0.47
1:C:2036:GLN:O	1:C:2045:GLN:OE1	2.32	0.47
1:C:3111:ARG:NH2	1:C:3178:THR:HG21	2.29	0.47
1:C:3384:LYS:H	1:C:3387:ALA:HB3	1.78	0.47
1:C:3409:TYR:OH	1:C:3441:ILE:HG21	2.13	0.47
1:C:4718:LYS:O	1:C:4722:ARG:NH2	2.48	0.47
1:C:4835:LYS:O	1:C:4839:MET:HG2	2.14	0.47
1:A:978:THR:HG23	1:A:981:GLN:OE1	2.14	0.47
1:A:1929:MET:O	1:A:1930:LYS:HB3	2.13	0.47
1:A:2204:HIS:NE2	1:A:2205:GLU:OE2	2.47	0.47
1:A:2243:SER:HB3	1:A:2246:ASN:CG	2.39	0.47
1:A:2615:ARG:HD3	1:A:2618:MET:HE1	1.96	0.47
1:A:3479:ALA:HB1	1:B:1141:ARG:HB2	1.96	0.47
1:A:4001:MET:HG3	1:A:4057:MET:SD	2.55	0.47
1:A:4702:ASP:O	1:A:4705:VAL:HG12	2.14	0.47
2:E:84:ALA:CB	2:E:94:HIS:CE1	2.97	0.47
2:H:84:ALA:CB	2:H:94:HIS:CE1	2.97	0.47
1:B:1699:GLU:HA	1:B:1814:MET:HE2	1.95	0.47
1:B:1819:VAL:HG22	1:B:1926:LEU:HD21	1.96	0.47
1:B:2090:LYS:NZ	1:B:2092:GLN:OE1	2.45	0.47
1:B:2687:ALA:HB1	1:B:2966:TRP:HH2	1.76	0.47
1:B:3388:GLU:OE1	1:B:3388:GLU:N	2.46	0.47
1:B:3499:ARG:HH12	1:B:3503:TYR:HB3	1.78	0.47
1:B:4702:ASP:O	1:B:4705:VAL:HG12	2.14	0.47
1:D:955:LEU:HD23	1:D:969:PRO:HD3	1.96	0.47
1:D:1575:LEU:CD2	1:D:1579:MET:SD	3.02	0.47
1:D:1819:VAL:HG22	1:D:1926:LEU:HD21	1.96	0.47
1:D:2255:SER:O	1:D:2258:LEU:HB2	2.14	0.47
1:D:2612[A]:ARG:HH11	1:D:2613:TYR:N	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2929:PHE:O	1:D:2932:MET:HG2	2.13	0.47
1:D:3277:LEU:CD2	1:D:3315:LEU:HD22	2.44	0.47
1:D:4702:ASP:O	1:D:4705:VAL:HG12	2.14	0.47
1:C:919:ASN:O	1:C:923:GLN:OE1	2.33	0.47
1:C:2292:GLU:HA	1:C:2295:LEU:HD12	1.96	0.47
1:C:2801:ASP:O	1:C:2804:ILE:HG12	2.14	0.47
1:C:3040:THR:HG21	1:C:3080:VAL:HG21	1.96	0.47
1:C:3702:VAL:HG11	1:C:3773:ARG:O	2.15	0.47
1:C:4157:ASP:H	1:C:4161:ARG:NH1	2.09	0.47
1:C:4705:VAL:HG22	1:C:4711:PHE:CD1	2.49	0.47
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.13	0.47
1:A:231:LEU:HD11	1:A:245:VAL:CG1	2.44	0.47
1:A:1505:GLN:C	1:A:1508:ARG:HB2	2.40	0.47
1:A:2155:LEU:CD1	1:A:2185:ILE:HG23	2.44	0.47
1:A:3111:ARG:NH2	1:A:3178:THR:HG21	2.29	0.47
1:A:3320:LEU:HD12	1:A:3353:LEU:HD21	1.97	0.47
1:A:3571:TRP:CE2	1:B:1228:ILE:HD11	2.49	0.47
1:A:4644:TRP:O	1:A:4648:LEU:HD13	2.15	0.47
1:B:1024:TYR:O	1:B:1027:LEU:N	2.48	0.47
1:B:2911:LEU:HD12	1:B:2912:THR:O	2.15	0.47
1:B:3105:LYS:CE	1:B:3128:ASN:HD22	2.27	0.47
1:B:3924:LEU:O	1:B:3927:GLN:HG3	2.13	0.47
1:D:1024:TYR:O	1:D:1027:LEU:N	2.48	0.47
1:D:1449:TRP:C	1:D:1494:MET:HE2	2.40	0.47
1:D:2674:LEU:HA	1:D:2677:LYS:CE	2.41	0.47
1:D:2700:MET:O	1:D:2704:CYS:SG	2.72	0.47
1:D:2742:THR:CG2	1:D:2814:LYS:HB3	2.41	0.47
1:D:2952:GLU:HA	1:D:2957:PHE:CD2	2.50	0.47
1:D:4879:MET:HG2	1:C:4580:TYR:O	2.14	0.47
1:C:206:CYS:HA	1:C:334:MET:CE	2.45	0.47
1:C:1857:GLU:O	1:C:1861:GLN:OE1	2.32	0.47
1:C:1962:ALA:O	1:C:1966:VAL:HG13	2.14	0.47
1:C:2204:HIS:NE2	1:C:2205:GLU:OE2	2.47	0.47
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.79	0.47
1:C:2687:ALA:HB1	1:C:2966:TRP:HH2	1.75	0.47
1:C:2916:LYS:HG3	1:C:2920:ARG:HB2	1.96	0.47
1:A:2036:GLN:O	1:A:2045:GLN:OE1	2.32	0.47
1:A:2430:ILE:HG21	1:A:2502:MET:HA	1.97	0.47
1:A:2660:GLY:HA3	1:A:2666:VAL:HG12	1.97	0.47
1:A:2816:MET:HG2	1:A:2878:LEU:CD1	2.44	0.47
1:A:3039:ILE:CG1	1:A:3071:LEU:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3277:LEU:CD2	1:A:3315:LEU:HD22	2.44	0.47
1:A:3607:GLU:O	1:A:3611:HIS:CD2	2.68	0.47
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.13	0.47
2:H:25:HIS:CB	2:H:102:GLU:OE2	2.63	0.47
1:B:414:PHE:CD2	1:B:418:LEU:HD11	2.49	0.47
1:B:656:SER:HA	1:B:852:VAL:HG22	1.96	0.47
1:B:1857:GLU:O	1:B:1861:GLN:OE1	2.32	0.47
1:B:1962:ALA:O	1:B:1966:VAL:HG13	2.14	0.47
1:B:2674:LEU:HA	1:B:2677:LYS:CE	2.41	0.47
1:B:2700:MET:O	1:B:2704:CYS:SG	2.72	0.47
1:B:2977:LEU:HD22	1:B:3056:LEU:CD2	2.45	0.47
1:B:3162:GLN:O	1:B:3166:TYR:CD2	2.67	0.47
1:B:3607:GLU:O	1:B:3611:HIS:CD2	2.68	0.47
1:B:4056:GLU:HG3	1:B:4166:LEU:HD13	1.95	0.47
1:B:4580:TYR:O	1:C:4879:MET:HG2	2.15	0.47
1:D:883:ALA:HB1	1:D:907:LEU:HD13	1.95	0.47
1:D:3320:LEU:HD12	1:D:3353:LEU:HD21	1.97	0.47
1:D:3775:ALA:O	1:D:3779:VAL:HG23	2.13	0.47
1:D:4060:LYS:O	1:D:4064:MET:HG3	2.13	0.47
1:C:553:ARG:NE	1:C:555:GLU:OE2	2.44	0.47
1:C:1575:LEU:CD2	1:C:1579:MET:SD	3.02	0.47
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.15	0.47
1:C:2981:VAL:O	1:C:2985:ARG:NH1	2.48	0.47
1:C:3607:GLU:O	1:C:3611:HIS:CD2	2.68	0.47
1:C:4071:ILE:CG2	1:C:4097:MET:HE1	2.41	0.47
1:C:4644:TRP:O	1:C:4648:LEU:HD13	2.15	0.47
1:A:144:GLU:OE2	1:D:2452:ARG:NH1	2.47	0.47
1:A:414:PHE:CD2	1:A:418:LEU:HD11	2.50	0.47
1:A:943:ASP:N	1:A:943:ASP:OD1	2.48	0.47
1:A:1435:TYR:CE2	1:A:1550:PRO:HB3	2.50	0.47
1:A:2611:CYS:CB	1:A:2643:LEU:HD11	2.45	0.47
1:A:2911:LEU:HD12	1:A:2912:THR:O	2.15	0.47
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.15	0.47
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.97	0.47
1:A:3603:LEU:O	1:A:3604:TYR:C	2.58	0.47
1:A:3969:ILE:CG2	1:A:3980:LEU:HD12	2.45	0.47
1:A:4835:LYS:O	1:A:4839:MET:HG2	2.14	0.47
2:G:84:ALA:CB	2:G:94:HIS:CE1	2.97	0.47
1:B:909:ASN:ND2	1:B:965:TYR:CD2	2.78	0.47
1:B:919:ASN:O	1:B:923:GLN:OE1	2.33	0.47
1:B:1112:ASP:CG	1:B:1113:VAL:HG23	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1575:LEU:CD2	1:B:1579:MET:SD	3.02	0.47
1:B:2243:SER:HB3	1:B:2246:ASN:CG	2.39	0.47
1:B:2430:ILE:HG21	1:B:2502:MET:HA	1.97	0.47
1:B:2538:THR:O	1:B:2542:SER:OG	2.31	0.47
1:B:2601:ASP:OD1	1:B:2601:ASP:C	2.58	0.47
1:B:2615:ARG:HD3	1:B:2618:MET:HE1	1.96	0.47
1:B:2703:LEU:C	1:B:2703:LEU:HD12	2.39	0.47
1:B:2801:ASP:O	1:B:2804:ILE:HG12	2.14	0.47
1:B:2967:MET:O	1:B:2970:SER:OG	2.14	0.47
1:B:3277:LEU:CD2	1:B:3315:LEU:HD22	2.44	0.47
1:B:3384:LYS:H	1:B:3387:ALA:HB3	1.78	0.47
1:B:3415:TYR:O	1:B:3419:ASN:ND2	2.35	0.47
1:B:3702:VAL:HG11	1:B:3773:ARG:O	2.15	0.47
1:B:3971:GLY:N	1:B:3972:PRO:HA	2.30	0.47
1:B:4718:LYS:O	1:B:4722:ARG:NH2	2.48	0.47
1:B:4827:LEU:HD23	1:B:4831:THR:CG2	2.44	0.47
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.96	0.47
1:D:787:VAL:HG22	1:D:789:VAL:HG23	1.96	0.47
1:D:1858:ASP:O	1:D:1862:ILE:HG13	2.15	0.47
1:D:2204:HIS:NE2	1:D:2205:GLU:OE2	2.47	0.47
1:D:2243:SER:HB3	1:D:2246:ASN:CG	2.39	0.47
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	1.96	0.47
1:D:2524:VAL:HG23	1:D:2525:GLY:N	2.30	0.47
1:D:2541:PHE:HA	1:D:2544:THR:HG23	1.95	0.47
1:D:2660:GLY:HA3	1:D:2666:VAL:HG12	1.97	0.47
1:D:2981:VAL:O	1:D:2985:ARG:NH1	2.48	0.47
1:D:4069:LYS:HE2	1:D:4129:ALA:HB1	1.96	0.47
1:D:4827:LEU:HD23	1:D:4831:THR:CG2	2.44	0.47
1:C:913:LEU:HD11	1:C:918:ARG:HG2	1.97	0.47
1:C:2035:HIS:ND1	1:C:3657:TYR:OH	2.17	0.47
1:C:2601:ASP:OD1	1:C:2601:ASP:C	2.58	0.47
1:C:3087:ILE:HG13	1:C:3088:VAL:N	2.30	0.47
1:C:3415:TYR:O	1:C:3419:ASN:ND2	2.35	0.47
1:C:4027:LEU:CD2	1:C:4044:MET:HE2	2.41	0.47
1:A:1281:ASN:C	1:A:1281:ASN:OD1	2.57	0.47
1:A:1819:VAL:HG22	1:A:1926:LEU:HD21	1.96	0.47
1:A:2541:PHE:HA	1:A:2544:THR:HG23	1.95	0.47
1:A:3093:ARG:O	1:A:3097:GLU:OE1	2.33	0.47
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.14	0.47
1:A:3359:ILE:HG23	1:A:3437:MET:HE1	1.96	0.47
1:A:4823:LEU:CD2	1:B:4839:MET:HE3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4885:PHE:HE2	1:A:4897:ILE:HD11	1.73	0.47
1:B:1207:ASP:O	1:B:1210:SER:OG	2.24	0.47
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.48	0.47
1:B:2036:GLN:O	1:B:2045:GLN:OE1	2.32	0.47
1:B:2155:LEU:CD1	1:B:2185:ILE:HG23	2.44	0.47
1:B:2325:PRO:O	1:B:2329:GLU:OE1	2.33	0.47
1:B:2675:THR:CG2	1:B:2706:ILE:HG23	2.44	0.47
1:B:3040:THR:HG21	1:B:3080:VAL:HG21	1.96	0.47
1:B:3111:ARG:NH2	1:B:3178:THR:HG21	2.29	0.47
1:B:3359:ILE:HG23	1:B:3437:MET:HE1	1.96	0.47
1:B:4705:VAL:HG22	1:B:4711:PHE:CD1	2.49	0.47
1:D:322:LYS:NZ	1:D:354:GLY:O	2.46	0.47
1:D:368:ARG:HH22	1:D:2308:GLN:HB2	1.79	0.47
1:D:414:PHE:CD2	1:D:418:LEU:HD11	2.50	0.47
1:D:891:TRP:HE1	1:D:902:ARG:CZ	2.28	0.47
1:D:913:LEU:HD11	1:D:918:ARG:HG2	1.97	0.47
1:D:2155:LEU:CD1	1:D:2185:ILE:HG23	2.44	0.47
1:D:2685:SER:O	1:D:2689:LYS:HG2	2.14	0.47
1:D:3607:GLU:O	1:D:3611:HIS:CD2	2.68	0.47
1:D:3628:ARG:O	1:D:3631:ALA:N	2.42	0.47
1:D:4552:LEU:HD12	1:D:4663:CYS:SG	2.53	0.47
1:D:4680:LYS:O	1:D:4685:GLY:N	2.47	0.47
1:D:4718:LYS:O	1:D:4722:ARG:NH2	2.48	0.47
1:C:273:HIS:CE1	1:C:334:MET:HB3	2.49	0.47
1:C:1858:ASP:O	1:C:1862:ILE:HG13	2.15	0.47
1:C:2930:LEU:O	1:C:2935:TYR:N	2.47	0.47
1:C:2977:LEU:HD22	1:C:3056:LEU:CD2	2.45	0.47
1:C:3359:ILE:HG23	1:C:3437:MET:HE1	1.96	0.47
1:C:3375:GLU:O	1:C:3379:LEU:HG	2.15	0.47
1:C:3969:ILE:CG2	1:C:3980:LEU:HD12	2.45	0.47
1:A:2261:SER:O	1:A:2264:GLY:N	2.48	0.47
1:A:2685:SER:O	1:A:2689:LYS:HG2	2.14	0.47
1:A:2872:GLN:O	1:A:2875:ALA:N	2.48	0.47
1:A:3105:LYS:CE	1:A:3128:ASN:HD22	2.27	0.47
1:A:4827:LEU:HD23	1:A:4831:THR:CG2	2.44	0.47
1:B:1449:TRP:C	1:B:1494:MET:HE2	2.40	0.47
1:B:4885:PHE:HE2	1:B:4897:ILE:HD11	1.74	0.47
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.96	0.47
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.15	0.47
1:D:1505:GLN:C	1:D:1508:ARG:HB2	2.40	0.47
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2586:VAL:HG13	1:D:2607:LEU:HD13	1.96	0.47
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.97	0.47
1:D:3039:ILE:CG1	1:D:3071:LEU:HD11	2.44	0.47
1:D:3087:ILE:HG13	1:D:3088:VAL:N	2.30	0.47
1:D:3641:LEU:HD11	1:D:3649:ALA:CB	2.45	0.47
1:D:4001:MET:HG3	1:D:4057:MET:SD	2.54	0.47
1:C:943:ASP:N	1:C:943:ASP:OD1	2.47	0.47
1:C:1101:ARG:CZ	1:C:1114:GLU:OE2	2.63	0.47
1:C:1449:TRP:C	1:C:1494:MET:HE2	2.40	0.47
1:C:3093:ARG:O	1:C:3097:GLU:OE1	2.33	0.47
1:C:3270:ILE:HD12	1:C:3270:ILE:H	1.79	0.47
1:C:3562:LYS:HZ2	1:C:3565:GLY:N	2.13	0.47
1:A:1449:TRP:C	1:A:1494:MET:HE2	2.40	0.47
1:A:1453:VAL:HG13	1:A:1551:ALA:HB3	1.96	0.47
1:A:1658:ASP:N	1:A:1658:ASP:OD1	2.48	0.47
1:A:1858:ASP:O	1:A:1862:ILE:HG13	2.15	0.47
1:A:2267:MET:O	1:A:2330:ARG:NH2	2.48	0.47
1:A:3040:THR:HG21	1:A:3080:VAL:HG21	1.96	0.47
1:A:3634:ALA:O	1:A:3638:MET:HG3	2.15	0.47
1:A:4069:LYS:HE2	1:A:4129:ALA:HB1	1.96	0.47
1:A:4705:VAL:HG22	1:A:4711:PHE:CD1	2.49	0.47
1:B:299:LEU:HD23	1:B:376:ALA:O	2.15	0.47
1:B:955:LEU:HD23	1:B:969:PRO:HD3	1.96	0.47
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.15	0.47
1:B:1505:GLN:C	1:B:1508:ARG:HB2	2.40	0.47
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.15	0.47
1:B:2261:SER:O	1:B:2264:GLY:N	2.48	0.47
1:B:2611:CYS:CB	1:B:2643:LEU:HD11	2.45	0.47
1:B:2660:GLY:HA3	1:B:2666:VAL:HG12	1.97	0.47
1:B:4644:TRP:O	1:B:4648:LEU:HD13	2.15	0.47
1:B:4750:ILE:HA	1:B:4753:HIS:HD2	1.80	0.47
1:D:656:SER:HA	1:D:852:VAL:HG22	1.96	0.47
1:D:943:ASP:N	1:D:943:ASP:OD1	2.48	0.47
1:D:2325:PRO:O	1:D:2329:GLU:OE1	2.33	0.47
1:D:2430:ILE:HG21	1:D:2502:MET:HA	1.97	0.47
1:D:2930:LEU:O	1:D:2935:TYR:N	2.47	0.47
1:D:4705:VAL:HG22	1:D:4711:PHE:CD1	2.49	0.47
1:C:110:ARG:HD3	1:C:115:ARG:HE	1.79	0.47
1:C:299:LEU:HD23	1:C:376:ALA:O	2.15	0.47
1:C:414:PHE:CD2	1:C:418:LEU:HD11	2.49	0.47
1:C:1658:ASP:N	1:C:1658:ASP:OD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1762:LEU:HD12	1:C:1863:LEU:HD13	1.97	0.47
1:C:2166:LEU:CD1	1:C:2206:THR:HG23	2.44	0.47
1:C:2243:SER:HB3	1:C:2246:ASN:CG	2.39	0.47
1:C:2524:VAL:HG23	1:C:2525:GLY:N	2.30	0.47
1:C:2952:GLU:HA	1:C:2957:PHE:CD2	2.50	0.47
1:C:3546:ASP:O	1:C:3549:VAL:HG22	2.14	0.47
1:C:3562:LYS:HZ2	1:C:3564:GLU:C	2.23	0.47
1:C:4170:ILE:H	1:C:4170:ILE:HD12	1.80	0.47
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.96	0.46
1:A:1575:LEU:CD2	1:A:1579:MET:SD	3.02	0.46
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	1.96	0.46
1:A:2524:VAL:HG23	1:A:2525:GLY:N	2.30	0.46
1:A:2981:VAL:O	1:A:2985:ARG:NH1	2.48	0.46
1:A:3546:ASP:O	1:A:3549:VAL:HG22	2.14	0.46
1:A:3641:LEU:HD11	1:A:3649:ALA:CB	2.45	0.46
1:A:3702:VAL:HG11	1:A:3773:ARG:O	2.15	0.46
1:A:3733:CYS:SG	1:A:3770:LEU:HD12	2.55	0.46
1:A:4750:ILE:HA	1:A:4753:HIS:HD2	1.81	0.46
1:A:4866:SER:OG	1:A:4872:PRO:HA	2.16	0.46
2:E:19:GLY:C	2:E:49:MET:HE1	2.40	0.46
1:B:110:ARG:HD3	1:B:115:ARG:HE	1.79	0.46
1:B:891:TRP:HE1	1:B:902:ARG:CZ	2.28	0.46
1:B:1101:ARG:CZ	1:B:1114:GLU:OE2	2.63	0.46
1:B:1281:ASN:C	1:B:1281:ASN:OD1	2.57	0.46
1:B:2524:VAL:HG23	1:B:2525:GLY:N	2.30	0.46
1:B:3504:SER:O	1:B:3507:THR:OG1	2.26	0.46
1:B:4170:ILE:H	1:B:4170:ILE:HD12	1.80	0.46
1:D:476:SER:O	1:D:480:GLU:HG2	2.15	0.46
1:D:1101:ARG:CZ	1:D:1114:GLU:OE2	2.63	0.46
1:D:2469:ILE:HG21	1:D:2502:MET:HE3	1.97	0.46
1:D:2674:LEU:O	1:D:2677:LYS:HG3	2.16	0.46
1:D:3209:GLN:HG2	1:D:3210:LEU:HG	1.96	0.46
1:D:3378:GLN:NE2	1:D:3382:GLU:OE1	2.48	0.46
1:D:3508:SER:OG	1:D:3510:ILE:HG22	2.15	0.46
1:D:3603:LEU:O	1:D:3604:TYR:C	2.58	0.46
1:D:3969:ILE:CG2	1:D:3980:LEU:HD12	2.45	0.46
1:D:3971:GLY:N	1:D:3972:PRO:HA	2.30	0.46
1:D:4170:ILE:H	1:D:4170:ILE:HD12	1.80	0.46
1:D:4720:VAL:HA	1:D:4723:LYS:HE2	1.97	0.46
1:D:4876:CYS:HA	1:D:4882:CYS:HB2	1.96	0.46
1:C:632:LEU:O	1:C:634:GLN:NE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1435:TYR:CE2	1:C:1550:PRO:HB3	2.50	0.46
1:C:2261:SER:O	1:C:2264:GLY:N	2.48	0.46
1:C:2267:MET:O	1:C:2330:ARG:NH2	2.48	0.46
1:C:2586:VAL:HG13	1:C:2607:LEU:HD13	1.96	0.46
1:C:2911:LEU:HD12	1:C:2912:THR:O	2.15	0.46
1:C:3039:ILE:CG1	1:C:3071:LEU:HD11	2.45	0.46
1:C:3100:SER:C	1:C:3104:GLU:OE1	2.59	0.46
1:C:3209:GLN:HG2	1:C:3210:LEU:HG	1.96	0.46
1:C:3277:LEU:CD2	1:C:3315:LEU:HD22	2.44	0.46
1:C:4001:MET:HG3	1:C:4057:MET:SD	2.54	0.46
1:C:4686:LEU:HG	1:C:4687:TYR:N	2.30	0.46
1:A:1842:LEU:HD13	1:A:1938:GLN:HB2	1.97	0.46
1:A:2292:GLU:HA	1:A:2295:LEU:HD12	1.96	0.46
1:A:2369[A]:ARG:NH2	1:A:2372:GLY:O	2.45	0.46
1:A:2469:ILE:HG21	1:A:2502:MET:HE3	1.97	0.46
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.97	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
2:G:79:ASP:OD1	2:G:80:TYR:HD2	1.98	0.46
2:F:25:HIS:CB	2:F:102:GLU:OE2	2.63	0.46
1:B:1962:ALA:O	1:B:1966:VAL:HG22	2.15	0.46
1:B:2823:ILE:HG23	1:B:2823:ILE:O	2.16	0.46
1:B:3087:ILE:HG13	1:B:3088:VAL:N	2.30	0.46
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.79	0.46
1:B:3640:PRO:O	1:B:3643:ASN:N	2.41	0.46
1:B:3641:LEU:HD11	1:B:3649:ALA:CB	2.45	0.46
1:B:3969:ILE:CG2	1:B:3980:LEU:HD12	2.45	0.46
1:D:173:SER:OG	1:D:176:SER:OG	1.88	0.46
1:D:514:SER:O	1:D:515:TRP:C	2.57	0.46
1:D:2872:GLN:O	1:D:2875:ALA:N	2.48	0.46
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.15	0.46
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.14	0.46
1:D:3634:ALA:O	1:D:3638:MET:HG3	2.15	0.46
1:D:3702:VAL:HG11	1:D:3773:ARG:O	2.15	0.46
1:D:4202:ARG:O	1:D:4206:GLU:OE1	2.34	0.46
1:D:4866:SER:OG	1:D:4872:PRO:HA	2.16	0.46
1:C:514:SER:O	1:C:515:TRP:C	2.57	0.46
1:C:829:TYR:O	1:C:840:VAL:N	2.42	0.46
1:C:955:LEU:HD23	1:C:969:PRO:HD3	1.96	0.46
1:C:1962:ALA:O	1:C:1966:VAL:HG22	2.16	0.46
1:C:2155:LEU:CD1	1:C:2185:ILE:HG23	2.44	0.46
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3148:ALA:O	1:C:3151:GLN:NE2	2.49	0.46
1:C:3508:SER:OG	1:C:3510:ILE:HG22	2.15	0.46
1:A:299:LEU:HD23	1:A:376:ALA:O	2.15	0.46
1:A:476:SER:O	1:A:480:GLU:HG2	2.15	0.46
1:A:656:SER:HA	1:A:852:VAL:HG22	1.96	0.46
1:A:955:LEU:HD23	1:A:969:PRO:HD3	1.96	0.46
1:A:1024:TYR:O	1:A:1027:LEU:N	2.48	0.46
1:A:2916:LYS:HG3	1:A:2920:ARG:HB2	1.96	0.46
1:A:3148:ALA:O	1:A:3151:GLN:NE2	2.49	0.46
1:B:1983:ALA:HA	1:B:1986:MET:HE2	1.97	0.46
1:B:2872:GLN:O	1:B:2875:ALA:N	2.48	0.46
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.16	0.46
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.46
1:D:1453:VAL:HG13	1:D:1551:ALA:HB3	1.96	0.46
1:D:1762:LEU:HD12	1:D:1863:LEU:HD13	1.97	0.46
1:D:1842:LEU:HD13	1:D:1938:GLN:HB2	1.97	0.46
1:D:1962:ALA:O	1:D:1966:VAL:HG22	2.16	0.46
1:D:2267:MET:O	1:D:2330:ARG:NH2	2.48	0.46
1:D:2687:ALA:HB1	1:D:2966:TRP:HH2	1.75	0.46
1:D:3365:LEU:HD12	1:D:3408:LEU:HD21	1.98	0.46
1:D:3384:LYS:H	1:D:3387:ALA:HB3	1.78	0.46
1:D:4851:TYR:HD1	1:D:4916:PHE:CE1	2.34	0.46
1:C:1505:GLN:C	1:C:1508:ARG:HB2	2.40	0.46
1:C:1819:VAL:HG22	1:C:1926:LEU:HD21	1.96	0.46
1:C:1842:LEU:HD13	1:C:1938:GLN:HB2	1.97	0.46
1:C:2469:ILE:HG21	1:C:2502:MET:HE3	1.97	0.46
1:C:3641:LEU:HD11	1:C:3649:ALA:CB	2.45	0.46
1:A:647:ASN:OD1	1:A:821:LEU:HD12	2.16	0.46
1:A:1101:ARG:CZ	1:A:1114:GLU:OE2	2.63	0.46
1:A:3100:SER:C	1:A:3104:GLU:OE1	2.59	0.46
1:A:3504:SER:O	1:A:3507:THR:OG1	2.26	0.46
1:A:3971:GLY:N	1:A:3972:PRO:HA	2.30	0.46
2:H:19:GLY:C	2:H:49:MET:HE1	2.41	0.46
2:F:79:ASP:OD1	2:F:80:TYR:HD2	1.98	0.46
1:B:231:LEU:HD11	1:B:245:VAL:CG1	2.44	0.46
1:B:2894:LEU:O	1:B:2898:GLY:N	2.36	0.46
1:B:2952:GLU:HA	1:B:2957:PHE:CD2	2.50	0.46
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.15	0.46
1:B:3556:ASN:O	1:B:3559:LEU:N	2.37	0.46
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.46
1:B:3634:ALA:O	1:B:3638:MET:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4069:LYS:HE2	1:B:4129:ALA:HB1	1.96	0.46
1:B:4202:ARG:O	1:B:4206:GLU:OE1	2.34	0.46
1:D:2182:ILE:HB	1:D:2186:MET:HE1	1.97	0.46
1:D:2611:CYS:CB	1:D:2643:LEU:HD11	2.45	0.46
1:D:3093:ARG:O	1:D:3097:GLU:OE1	2.33	0.46
1:D:3546:ASP:O	1:D:3549:VAL:HG22	2.14	0.46
1:C:59:PRO:HB2	1:C:290:TYR:CZ	2.51	0.46
1:C:322:LYS:NZ	1:C:354:GLY:O	2.46	0.46
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.96	0.46
1:C:891:TRP:HE1	1:C:902:ARG:CZ	2.28	0.46
1:C:1112:ASP:CG	1:C:1113:VAL:HG23	2.39	0.46
1:C:2674:LEU:O	1:C:2677:LYS:HG3	2.16	0.46
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.97	0.46
1:C:3320:LEU:HD12	1:C:3353:LEU:HD21	1.97	0.46
1:C:3459:VAL:HG11	1:C:3503:TYR:CG	2.51	0.46
1:C:4069:LYS:HE2	1:C:4129:ALA:HB1	1.96	0.46
1:C:4702:ASP:O	1:C:4705:VAL:HG12	2.14	0.46
1:C:4827:LEU:HD23	1:C:4831:THR:CG2	2.44	0.46
1:A:913:LEU:HD11	1:A:918:ARG:HG2	1.97	0.46
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.15	0.46
1:A:1786:LEU:CD2	2:E:85:THR:HG21	2.45	0.46
1:A:2255:SER:O	1:A:2258:LEU:N	2.48	0.46
1:A:2539:ALA:N	1:A:2593:ARG:HH21	2.14	0.46
1:A:2575:ARG:O	1:A:2579:VAL:HG23	2.16	0.46
1:A:2687:ALA:HB1	1:A:2966:TRP:HH2	1.76	0.46
1:A:3388:GLU:OE1	1:A:3388:GLU:N	2.46	0.46
1:A:4096:ALA:O	1:A:4100:GLN:HG2	2.16	0.46
1:A:4686:LEU:HG	1:A:4687:TYR:N	2.30	0.46
1:A:4720:VAL:HA	1:A:4723:LYS:HE2	1.97	0.46
2:E:1:GLY:N	2:E:80:TYR:CE2	2.84	0.46
2:H:79:ASP:OD1	2:H:80:TYR:HD2	1.98	0.46
2:G:21:THR:CA	2:G:49:MET:SD	3.03	0.46
2:F:21:THR:CA	2:F:49:MET:SD	3.03	0.46
2:F:55:VAL:CG1	2:F:59:TRP:HB2	2.46	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.41	0.46
1:B:1435:TYR:CE2	1:B:1550:PRO:HB3	2.50	0.46
1:B:2586:VAL:HG13	1:B:2607:LEU:HD13	1.96	0.46
1:B:2674:LEU:O	1:B:2677:LYS:HG3	2.16	0.46
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.16	0.46
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.97	0.46
1:B:2981:VAL:O	1:B:2985:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3283:ARG:HG2	1:B:3287:ARG:NH2	2.28	0.46
1:B:3375:GLU:O	1:B:3379:LEU:HG	2.15	0.46
1:B:3733:CYS:SG	1:B:3770:LEU:HD12	2.55	0.46
1:B:3833:GLN:O	1:B:3837:GLN:OE1	2.34	0.46
1:B:4686:LEU:HG	1:B:4687:TYR:N	2.30	0.46
1:D:919:ASN:O	1:D:923:GLN:OE1	2.33	0.46
1:D:1008:SER:OG	1:D:1010:VAL:O	2.09	0.46
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.49	0.46
1:D:2823:ILE:HG23	1:D:2823:ILE:O	2.16	0.46
1:D:3556:ASN:O	1:D:3559:LEU:N	2.37	0.46
1:D:4644:TRP:O	1:D:4648:LEU:HD13	2.15	0.46
1:C:985:VAL:HG11	1:C:1040:CYS:SG	2.56	0.46
1:C:1860:LYS:O	1:C:1864:LYS:HG2	2.16	0.46
1:C:2566:ALA:HB1	1:C:2613:TYR:HD2	1.81	0.46
1:C:2674:LEU:HA	1:C:2677:LYS:CE	2.41	0.46
1:C:2758:PHE:CD1	1:C:2929:PHE:CD2	3.04	0.46
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.16	0.46
1:C:3365:LEU:HD12	1:C:3408:LEU:HD21	1.98	0.46
1:C:4851:TYR:HD1	1:C:4916:PHE:CE1	2.34	0.46
1:A:281:ARG:NH2	1:A:309:THR:OG1	2.49	0.46
1:A:689:THR:HG21	1:A:776:LEU:HB2	1.98	0.46
1:A:717:ASP:O	1:A:737:LEU:HD12	2.16	0.46
1:A:891:TRP:HE1	1:A:902:ARG:CZ	2.28	0.46
1:A:1453:VAL:HG22	1:A:1551:ALA:HB2	1.98	0.46
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.15	0.46
1:A:2674:LEU:O	1:A:2677:LYS:HG3	2.16	0.46
1:A:3061:ALA:O	1:A:3064:VAL:HG22	2.16	0.46
1:A:3087:ILE:HG13	1:A:3088:VAL:N	2.30	0.46
1:A:3459:VAL:HG11	1:A:3503:TYR:CG	2.51	0.46
1:A:4170:ILE:HD12	1:A:4170:ILE:H	1.80	0.46
2:E:79:ASP:OD1	2:E:80:TYR:HD2	1.98	0.46
2:H:1:GLY:N	2:H:80:TYR:CE2	2.84	0.46
2:H:16:PRO:HG2	2:H:63:VAL:HG12	1.98	0.46
1:B:2205:GLU:O	1:B:2209:GLU:OE1	2.34	0.46
1:B:2267:MET:O	1:B:2330:ARG:NH2	2.48	0.46
1:B:2292:GLU:HA	1:B:2295:LEU:HD12	1.96	0.46
1:B:2972:GLU:OE2	1:B:2991:HIS:NE2	2.49	0.46
1:B:3093:ARG:O	1:B:3097:GLU:OE1	2.33	0.46
1:B:3283:ARG:NH1	1:B:3287:ARG:NH2	2.64	0.46
1:B:3459:VAL:HG11	1:B:3503:TYR:CG	2.51	0.46
1:B:3603:LEU:O	1:B:3604:TYR:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.16	0.46
1:D:59:PRO:HB2	1:D:290:TYR:CZ	2.51	0.46
1:D:322:LYS:HG3	1:D:322:LYS:O	2.16	0.46
1:D:647:ASN:OD1	1:D:821:LEU:HD12	2.16	0.46
1:D:689:THR:HG21	1:D:776:LEU:HB2	1.98	0.46
1:D:925:SER:O	1:D:929:LEU:HG	2.16	0.46
1:D:1435:TYR:CE2	1:D:1550:PRO:HB3	2.50	0.46
1:D:2205:GLU:O	1:D:2209:GLU:OE1	2.34	0.46
1:D:2566:ALA:HB1	1:D:2613:TYR:HD2	1.80	0.46
1:D:2575:ARG:NH1	1:D:2578:MET:HE1	2.30	0.46
1:D:2911:LEU:HD12	1:D:2912:THR:O	2.15	0.46
1:D:3061:ALA:O	1:D:3064:VAL:HG22	2.16	0.46
1:D:4096:ALA:O	1:D:4100:GLN:HG2	2.16	0.46
1:C:1453:VAL:HG13	1:C:1551:ALA:HB3	1.96	0.46
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.39	0.46
1:C:2430:ILE:HG21	1:C:2502:MET:HA	1.97	0.46
1:C:2660:GLY:HA3	1:C:2666:VAL:HG12	1.97	0.46
1:C:3346:VAL:HG11	1:C:3414:ARG:HB2	1.97	0.46
1:C:3401:LEU:O	1:C:3405:LEU:HG	2.16	0.46
1:C:4902:GLU:O	1:C:4913:ARG:CZ	2.62	0.46
1:A:574:VAL:HA	1:A:577:ILE:HG12	1.98	0.46
1:A:919:ASN:O	1:A:923:GLN:OE1	2.33	0.46
1:A:1112:ASP:CG	1:A:1113:VAL:HG23	2.39	0.46
1:A:1112:ASP:CG	1:A:1113:VAL:N	2.74	0.46
1:A:2003:GLN:HB2	1:A:3652:MET:HE3	1.98	0.46
1:A:2758:PHE:CD1	1:A:2929:PHE:CD2	3.04	0.46
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.16	0.46
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.16	0.46
1:A:5034:ASP:OD2	1:A:5034:ASP:N	2.49	0.46
2:H:49:MET:HB3	2:H:52:LYS:HE2	1.98	0.46
2:F:19:GLY:C	2:F:49:MET:HE1	2.40	0.46
1:B:261:ARG:NH1	1:B:263:GLU:OE2	2.49	0.46
1:B:647:ASN:OD1	1:B:821:LEU:HD12	2.16	0.46
1:B:1453:VAL:HG13	1:B:1551:ALA:HB3	1.96	0.46
1:B:2255:SER:O	1:B:2258:LEU:N	2.48	0.46
1:B:2962:GLN:O	1:B:2966:TRP:HD1	1.98	0.46
1:B:3061:ALA:O	1:B:3064:VAL:HG22	2.16	0.46
1:B:3508:SER:OG	1:B:3510:ILE:HG22	2.15	0.46
1:D:717:ASP:O	1:D:737:LEU:HD12	2.16	0.46
1:D:1112:ASP:CG	1:D:1113:VAL:HG23	2.39	0.46
1:D:1126:GLY:O	1:D:1129:GLY:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1259:ARG:NH2	1:D:1591:CYS:SG	2.89	0.46
1:D:1658:ASP:N	1:D:1658:ASP:OD1	2.48	0.46
1:D:1965:TYR:CE2	1:D:1969:LEU:HD11	2.51	0.46
1:D:2816:MET:HG2	1:D:2878:LEU:CD1	2.44	0.46
1:D:2972:GLU:OE2	1:D:2991:HIS:NE2	2.49	0.46
1:D:3100:SER:C	1:D:3104:GLU:OE1	2.59	0.46
1:D:3459:VAL:HG11	1:D:3503:TYR:CG	2.51	0.46
1:C:2003:GLN:HB2	1:C:3652:MET:HE3	1.98	0.46
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.15	0.46
1:C:2205:GLU:O	1:C:2209:GLU:OE1	2.34	0.46
1:C:2972:GLU:OE2	1:C:2991:HIS:NE2	2.49	0.46
1:C:3061:ALA:O	1:C:3064:VAL:HG22	2.16	0.46
1:C:3283:ARG:NH1	1:C:3287:ARG:NH2	2.64	0.46
1:C:3971:GLY:N	1:C:3972:PRO:HA	2.30	0.46
1:A:861:ILE:HG23	1:A:861:ILE:O	2.16	0.46
1:A:1508:ARG:HA	1:A:1508:ARG:HE	1.81	0.46
1:A:1847:THR:O	1:A:1851:MET:HG3	2.16	0.46
1:A:1860:LYS:O	1:A:1864:LYS:HG2	2.16	0.46
1:A:2575:ARG:NH1	1:A:2578:MET:HE1	2.31	0.46
1:A:2586:VAL:HG13	1:A:2607:LEU:HD13	1.96	0.46
1:A:2927:LEU:O	1:A:2931:GLN:HG2	2.16	0.46
1:A:3346:VAL:HG11	1:A:3414:ARG:HB2	1.98	0.46
1:A:4851:TYR:HD1	1:A:4916:PHE:CE1	2.34	0.46
1:A:4903:ASP:OD2	1:A:4905:ALA:HB2	2.16	0.46
2:H:21:THR:CA	2:H:49:MET:SD	3.03	0.46
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.98	0.46
1:B:1847:THR:O	1:B:1851:MET:HG3	2.16	0.46
1:B:2003:GLN:HB2	1:B:3652:MET:HE3	1.98	0.46
1:B:3320:LEU:HD12	1:B:3353:LEU:HD21	1.97	0.46
1:D:495:ASN:O	1:D:496:VAL:C	2.59	0.46
1:D:1112:ASP:CG	1:D:1113:VAL:N	2.74	0.46
1:D:1508:ARG:HA	1:D:1508:ARG:HE	1.81	0.46
1:D:2927:LEU:O	1:D:2931:GLN:HG2	2.16	0.46
1:D:2977:LEU:HD22	1:D:3056:LEU:CD2	2.45	0.46
1:D:3617:LYS:HG3	1:D:3618:ALA:N	2.31	0.46
1:D:4750:ILE:HA	1:D:4753:HIS:HD2	1.80	0.46
1:C:261:ARG:NH1	1:C:263:GLU:OE2	2.49	0.46
1:C:939:VAL:HG23	1:C:1053:ILE:HD13	1.98	0.46
1:C:1573:MET:HE3	1:C:1577:ALA:CB	2.46	0.46
1:C:1847:THR:O	1:C:1851:MET:HG3	2.16	0.46
1:C:2611:CYS:CB	1:C:2643:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2816:MET:HG2	1:C:2878:LEU:CD1	2.44	0.46
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.16	0.46
1:C:4750:ILE:HA	1:C:4753:HIS:HD2	1.81	0.46
1:A:581:ASN:OD1	1:A:582:HIS:N	2.49	0.46
1:A:1573:MET:HE3	1:A:1577:ALA:CB	2.46	0.46
1:A:1962:ALA:O	1:A:1966:VAL:HG22	2.16	0.46
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.49	0.46
1:A:2205:GLU:O	1:A:2209:GLU:OE1	2.34	0.46
1:A:2536:LEU:O	1:A:2538:THR:N	2.48	0.46
1:A:2977:LEU:HD22	1:A:3056:LEU:CD2	2.45	0.46
1:A:4202:ARG:O	1:A:4206:GLU:OE1	2.34	0.46
2:E:4:VAL:HG22	2:E:74:LEU:CD2	2.46	0.46
2:E:21:THR:CA	2:E:49:MET:SD	3.03	0.46
2:G:19:GLY:C	2:G:49:MET:HE1	2.41	0.46
2:F:4:VAL:HG22	2:F:74:LEU:CD2	2.46	0.46
1:B:149:THR:HG23	1:B:174:VAL:HG22	1.98	0.46
1:B:360:ALA:O	1:B:361:ALA:CB	2.64	0.46
1:B:581:ASN:OD1	1:B:582:HIS:N	2.49	0.46
1:B:913:LEU:HD11	1:B:918:ARG:HG2	1.97	0.46
1:B:2715:VAL:HG22	1:B:2954:ARG:HA	1.98	0.46
1:B:2927:LEU:O	1:B:2931:GLN:HG2	2.16	0.46
1:B:3100:SER:C	1:B:3104:GLU:OE1	2.59	0.46
1:B:3617:LYS:HG3	1:B:3618:ALA:N	2.31	0.46
1:B:4851:TYR:HD1	1:B:4916:PHE:CE1	2.34	0.46
1:D:299:LEU:HD23	1:D:376:ALA:O	2.15	0.46
1:D:581:ASN:OD1	1:D:582:HIS:N	2.49	0.46
1:D:2003:GLN:HB2	1:D:3652:MET:HE3	1.98	0.46
1:D:2615:ARG:HD3	1:D:2618:MET:HE1	1.96	0.46
1:D:3277:LEU:HD21	1:D:3281:LEU:HD11	1.98	0.46
1:D:3283:ARG:HG2	1:D:3287:ARG:NH2	2.28	0.46
1:D:3337:ARG:HA	1:D:3340:VAL:HG22	1.98	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3733:CYS:SG	1:D:3770:LEU:HD12	2.55	0.46
1:D:4903:ASP:OD2	1:D:4905:ALA:HB2	2.16	0.46
1:D:5036:LEU:O	1:D:5037:SER:CB	2.64	0.46
1:C:656:SER:HA	1:C:852:VAL:HG22	1.96	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.16	0.46
1:C:2369[A]:ARG:NH2	1:C:2372:GLY:O	2.45	0.46
1:C:2539:ALA:N	1:C:2593:ARG:HH21	2.14	0.46
1:C:2575:ARG:NH1	1:C:2578:MET:HE1	2.30	0.46
1:C:2879:ALA:HB1	1:C:2916:LYS:HZ2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.97	0.46
1:C:3283:ARG:HG2	1:C:3287:ARG:NH2	2.28	0.46
1:C:3378:GLN:NE2	1:C:3382:GLU:OE1	2.48	0.46
1:C:3733:CYS:SG	1:C:3770:LEU:HD12	2.55	0.46
1:A:2182:ILE:HB	1:A:2186:MET:HE1	1.97	0.46
1:A:2601:ASP:OD1	1:A:2601:ASP:C	2.58	0.46
1:A:2696:TYR:O	1:A:2700:MET:SD	2.74	0.46
1:A:3296:LEU:C	1:A:3296:LEU:HD23	2.41	0.46
1:A:3833:GLN:O	1:A:3837:GLN:OE1	2.34	0.46
2:G:16:PRO:HG2	2:G:63:VAL:HG12	1.98	0.46
1:B:221:ARG:HH12	1:B:254:THR:HA	1.81	0.46
1:B:717:ASP:O	1:B:737:LEU:HD12	2.16	0.46
1:B:943:ASP:OD1	1:B:943:ASP:N	2.47	0.46
1:B:1286:MET:HB3	1:B:1288:PHE:CE1	2.51	0.46
1:B:1453:VAL:HG22	1:B:1551:ALA:HB2	1.98	0.46
1:B:2166:LEU:CD1	1:B:2206:THR:HG23	2.44	0.46
1:B:2182:ILE:HB	1:B:2186:MET:HE1	1.97	0.46
1:B:3378:GLN:NE2	1:B:3382:GLU:OE1	2.48	0.46
1:B:4052:SER:O	1:B:4053:SER:C	2.59	0.46
1:B:4060:LYS:HG3	1:B:4064:MET:SD	2.56	0.46
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.98	0.46
1:D:1426:ILE:O	1:D:1430:THR:OG1	2.27	0.46
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	1.98	0.46
1:D:2539:ALA:N	1:D:2593:ARG:HH21	2.14	0.46
1:D:2601:ASP:OD1	1:D:2601:ASP:C	2.58	0.46
1:D:3040:THR:HG21	1:D:3080:VAL:HG21	1.96	0.46
1:C:221:ARG:HH12	1:C:254:THR:HA	1.81	0.46
1:C:231:LEU:HD11	1:C:245:VAL:CG1	2.44	0.46
1:C:281:ARG:NH2	1:C:309:THR:OG1	2.49	0.46
1:C:476:SER:O	1:C:480:GLU:HG2	2.15	0.46
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.98	0.46
1:C:1965:TYR:CE2	1:C:1969:LEU:HD11	2.51	0.46
1:C:2536:LEU:O	1:C:2538:THR:N	2.48	0.46
1:C:2715:VAL:HG22	1:C:2954:ARG:HA	1.98	0.46
1:C:2872:GLN:O	1:C:2875:ALA:N	2.48	0.46
1:C:2962:GLN:O	1:C:2966:TRP:HD1	1.98	0.46
1:C:3108:GLU:O	1:C:3111:ARG:HB2	2.16	0.46
1:C:3111:ARG:HH22	1:C:3175:LEU:HD12	1.81	0.46
1:C:3145:GLN:OE1	1:C:3145:GLN:HA	2.16	0.46
1:C:3354:LEU:CD1	1:C:3415:TYR:CE2	2.99	0.46
1:C:3603:LEU:O	1:C:3604:TYR:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2185:ILE:HG21	1:A:2203:MET:HE1	1.98	0.45
1:A:2325:PRO:O	1:A:2329:GLU:OE1	2.33	0.45
1:A:2452:ARG:NH1	1:B:144:GLU:OE2	2.48	0.45
1:A:2566:ALA:HB1	1:A:2613:TYR:HD2	1.81	0.45
1:A:3283:ARG:NH1	1:A:3287:ARG:NH2	2.64	0.45
1:A:3378:GLN:NE2	1:A:3382:GLU:OE1	2.48	0.45
1:A:3508:SER:OG	1:A:3510:ILE:HG22	2.15	0.45
1:A:3702:VAL:HA	1:A:3778:MET:HE1	1.98	0.45
1:A:4052:SER:O	1:A:4053:SER:C	2.59	0.45
1:A:4060:LYS:HG3	1:A:4064:MET:SD	2.56	0.45
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.96	0.45
1:B:574:VAL:HA	1:B:577:ILE:HG12	1.98	0.45
1:B:708:GLY:N	1:B:713:SER:OG	2.43	0.45
1:B:861:ILE:HG23	1:B:861:ILE:O	2.16	0.45
1:B:939:VAL:HG23	1:B:1053:ILE:HD13	1.98	0.45
1:B:1069:TRP:CZ3	1:B:1112:ASP:CB	3.00	0.45
1:B:1508:ARG:HA	1:B:1508:ARG:HE	1.81	0.45
1:B:2185:ILE:HG21	1:B:2203:MET:HE1	1.98	0.45
1:B:2696:TYR:O	1:B:2700:MET:SD	2.74	0.45
1:D:144:GLU:OE2	1:C:2452:ARG:NH1	2.49	0.45
1:D:293:LEU:HD13	1:D:378:LEU:HD13	1.99	0.45
1:D:2255:SER:O	1:D:2258:LEU:N	2.48	0.45
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.16	0.45
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.97	0.45
1:C:682:LEU:HD13	1:C:787:VAL:HG21	1.98	0.45
1:C:717:ASP:O	1:C:737:LEU:HD12	2.16	0.45
1:C:2182:ILE:HB	1:C:2186:MET:HE1	1.97	0.45
1:C:3157:ILE:HG22	1:C:3162:GLN:HG3	1.99	0.45
1:C:3634:ALA:O	1:C:3638:MET:HG3	2.15	0.45
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.49	0.45
1:C:4157:ASP:C	1:C:4161:ARG:CZ	2.89	0.45
1:A:925:SER:O	1:A:929:LEU:HG	2.16	0.45
1:A:1230:MET:CE	1:A:1234:VAL:HG22	2.46	0.45
1:A:1286:MET:HB3	1:A:1288:PHE:CE1	2.51	0.45
1:A:1965:TYR:CE2	1:A:1969:LEU:HD11	2.51	0.45
1:A:2823:ILE:HG23	1:A:2823:ILE:O	2.16	0.45
1:A:4580:TYR:CE2	1:A:4630:TYR:HB3	2.52	0.45
2:G:4:VAL:HG22	2:G:74:LEU:CD2	2.46	0.45
1:B:1573:MET:HE3	1:B:1577:ALA:CB	2.46	0.45
1:B:2575:ARG:NH1	1:B:2578:MET:HE1	2.31	0.45
1:B:2575:ARG:O	1:B:2579:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2793:PRO:O	1:B:2797:PHE:N	2.45	0.45
1:B:3337:ARG:HA	1:B:3340:VAL:HG22	1.98	0.45
1:B:3401:LEU:O	1:B:3405:LEU:HG	2.16	0.45
1:B:4866:SER:OG	1:B:4872:PRO:HA	2.16	0.45
1:D:360:ALA:O	1:D:361:ALA:CB	2.64	0.45
1:D:985:VAL:HG11	1:D:1040:CYS:SG	2.56	0.45
1:D:1573:MET:HE3	1:D:1577:ALA:CB	2.46	0.45
1:D:1983:ALA:HA	1:D:1986:MET:HE2	1.97	0.45
1:D:2261:SER:O	1:D:2264:GLY:N	2.48	0.45
1:D:3108:GLU:O	1:D:3111:ARG:HB2	2.16	0.45
1:D:3375:GLU:O	1:D:3379:LEU:HG	2.15	0.45
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.50	0.45
1:D:4052:SER:O	1:D:4053:SER:C	2.59	0.45
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.98	0.45
1:C:647:ASN:OD1	1:C:821:LEU:HD12	2.16	0.45
1:C:1286:MET:HB3	1:C:1288:PHE:CE1	2.51	0.45
1:C:1508:ARG:HA	1:C:1508:ARG:HE	1.81	0.45
1:C:2927:LEU:O	1:C:2931:GLN:HG2	2.16	0.45
1:C:4060:LYS:HG3	1:C:4064:MET:SD	2.56	0.45
1:C:4202:ARG:O	1:C:4206:GLU:OE1	2.34	0.45
1:A:321:GLU:OE2	1:A:323:LEU:HD22	2.17	0.45
1:A:909:ASN:ND2	1:A:965:TYR:CD2	2.78	0.45
1:A:1259:ARG:NH2	1:A:1591:CYS:SG	2.89	0.45
1:A:2211:MET:CE	1:A:2232:CYS:HB2	2.47	0.45
2:E:55:VAL:CG1	2:E:59:TRP:HB2	2.46	0.45
2:H:4:VAL:HG22	2:H:74:LEU:CD2	2.46	0.45
2:G:55:VAL:CG1	2:G:59:TRP:HB2	2.46	0.45
1:B:322:LYS:O	1:B:322:LYS:HG3	2.16	0.45
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.56	0.45
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.15	0.45
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.49	0.45
1:B:2579:VAL:O	1:B:2583:LEU:HG	2.17	0.45
1:B:2668:SER:O	1:B:2669:GLU:CG	2.59	0.45
1:B:3145:GLN:OE1	1:B:3145:GLN:HA	2.17	0.45
1:B:3148:ALA:O	1:B:3151:GLN:NE2	2.49	0.45
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.50	0.45
1:D:231:LEU:HD11	1:D:245:VAL:CG1	2.44	0.45
1:D:682:LEU:HD13	1:D:787:VAL:HG21	1.98	0.45
1:D:1230:MET:CE	1:D:1234:VAL:HG22	2.46	0.45
1:D:1453:VAL:HG22	1:D:1551:ALA:HB2	1.98	0.45
1:D:3354:LEU:CD1	1:D:3415:TYR:CE2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3702:VAL:HA	1:D:3778:MET:HE1	1.98	0.45
1:D:4027:LEU:CD2	1:D:4044:MET:HE2	2.41	0.45
1:D:5034:ASP:OD2	1:D:5034:ASP:N	2.49	0.45
1:C:293:LEU:HD13	1:C:378:LEU:HD13	1.99	0.45
1:C:321:GLU:OE2	1:C:323:LEU:HD22	2.17	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.15	0.45
1:C:3524:MET:HG2	1:C:3595:ARG:CD	2.46	0.45
1:C:4866:SER:OG	1:C:4872:PRO:HA	2.16	0.45
1:A:322:LYS:HG3	1:A:322:LYS:O	2.16	0.45
1:A:2715:VAL:HG22	1:A:2954:ARG:HA	1.98	0.45
1:A:3096:PHE:CD2	1:A:3161:VAL:HG12	2.52	0.45
1:A:3556:ASN:O	1:A:3559:LEU:N	2.37	0.45
2:E:49:MET:HB3	2:E:52:LYS:HE2	1.98	0.45
1:B:281:ARG:NH2	1:B:309:THR:OG1	2.49	0.45
1:B:1505:GLN:HA	1:B:1508:ARG:HB2	1.99	0.45
1:B:1792:ALA:HA	1:B:2173:GLN:HG2	1.98	0.45
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.16	0.45
1:B:1965:TYR:CE2	1:B:1969:LEU:HD11	2.51	0.45
1:B:2469:ILE:HG21	1:B:2502:MET:HE3	1.97	0.45
1:B:2539:ALA:N	1:B:2593:ARG:HH21	2.14	0.45
1:B:2566:ALA:HB1	1:B:2613:TYR:HD2	1.81	0.45
1:B:3157:ILE:HG22	1:B:3162:GLN:HG3	1.99	0.45
1:B:4580:TYR:CE2	1:B:4630:TYR:HB3	2.52	0.45
1:B:4680:LYS:O	1:B:4685:GLY:N	2.47	0.45
1:D:261:ARG:NH1	1:D:263:GLU:OE2	2.49	0.45
1:D:1229:ASN:O	1:D:1827:ARG:HB2	2.17	0.45
1:D:1847:THR:O	1:D:1851:MET:HG3	2.16	0.45
1:D:2575:ARG:O	1:D:2579:VAL:HG23	2.16	0.45
1:D:2715:VAL:HG22	1:D:2954:ARG:HA	1.98	0.45
1:D:3283:ARG:NH1	1:D:3287:ARG:NH2	2.64	0.45
1:D:4731:ILE:HG23	1:D:4732:PHE:N	2.32	0.45
1:D:4778:TRP:O	1:D:4782:VAL:HG23	2.17	0.45
1:C:231:LEU:HD13	1:C:247:TYR:HE1	1.81	0.45
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	1.98	0.45
1:C:2325:PRO:O	1:C:2329:GLU:OE1	2.33	0.45
1:C:2880:GLU:HA	1:C:2883:HIS:HE1	1.77	0.45
1:C:3296:LEU:HD23	1:C:3296:LEU:C	2.41	0.45
1:C:4096:ALA:O	1:C:4100:GLN:HG2	2.16	0.45
1:C:5034:ASP:N	1:C:5034:ASP:OD2	2.49	0.45
1:A:261:ARG:NH1	1:A:263:GLU:OE2	2.49	0.45
1:A:495:ASN:O	1:A:496:VAL:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:745:SER:OG	1:A:758:ARG:HB2	2.17	0.45
1:A:1069:TRP:CZ3	1:A:1112:ASP:CB	3.00	0.45
1:A:1229:ASN:O	1:A:1827:ARG:HB2	2.17	0.45
1:A:1792:ALA:HA	1:A:2173:GLN:HG2	1.98	0.45
1:A:2579:VAL:O	1:A:2583:LEU:HG	2.17	0.45
1:A:2972:GLU:OE2	1:A:2991:HIS:NE2	2.49	0.45
1:A:3725:TYR:HA	1:A:3728:ILE:HD12	1.99	0.45
1:A:3842:LEU:HG	1:A:3875:MET:SD	2.57	0.45
2:G:1:GLY:N	2:G:80:TYR:CE2	2.84	0.45
2:G:94:HIS:ND1	2:G:94:HIS:N	2.64	0.45
2:F:1:GLY:N	2:F:80:TYR:CE2	2.84	0.45
1:B:59:PRO:HB2	1:B:290:TYR:CZ	2.51	0.45
1:B:404:ILE:HG23	1:B:483:MET:HE2	1.98	0.45
1:B:899:ASP:O	1:B:902:ARG:NH2	2.44	0.45
1:B:925:SER:O	1:B:929:LEU:HG	2.16	0.45
1:B:1259:ARG:NH2	1:B:1591:CYS:SG	2.89	0.45
1:B:2858:GLN:OE1	1:B:2932:MET:HE1	2.17	0.45
1:D:829:TYR:O	1:D:840:VAL:N	2.42	0.45
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.39	0.45
1:D:2206:THR:O	1:D:2210:VAL:HG23	2.17	0.45
1:D:2696:TYR:O	1:D:2700:MET:SD	2.74	0.45
1:D:2758:PHE:CD1	1:D:2929:PHE:CD2	3.04	0.45
1:D:3096:PHE:CD2	1:D:3161:VAL:HG12	2.52	0.45
1:D:3148:ALA:O	1:D:3151:GLN:NE2	2.49	0.45
1:D:3296:LEU:C	1:D:3296:LEU:HD23	2.41	0.45
1:D:3346:VAL:HG11	1:D:3414:ARG:HB2	1.98	0.45
1:D:3401:LEU:O	1:D:3405:LEU:HG	2.16	0.45
1:D:4060:LYS:HG3	1:D:4064:MET:SD	2.56	0.45
1:C:360:ALA:O	1:C:361:ALA:CB	2.64	0.45
1:C:581:ASN:OD1	1:C:582:HIS:N	2.49	0.45
1:C:672:VAL:O	1:C:680:THR:OG1	2.25	0.45
1:C:1259:ARG:NH2	1:C:1591:CYS:SG	2.89	0.45
1:C:1286:MET:CE	1:C:1555:LEU:HD12	2.46	0.45
1:C:1861:GLN:HB3	1:C:1865:MET:HE3	1.99	0.45
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	1.96	0.45
1:C:2575:ARG:O	1:C:2579:VAL:HG23	2.16	0.45
1:C:3617:LYS:HG3	1:C:3618:ALA:N	2.31	0.45
1:C:3833:GLN:O	1:C:3837:GLN:OE1	2.34	0.45
1:C:4052:SER:O	1:C:4053:SER:C	2.59	0.45
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.98	0.45
1:A:1762:LEU:HD12	1:A:1863:LEU:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3277:LEU:HD21	1:A:3281:LEU:HD11	1.98	0.45
1:A:3375:GLU:O	1:A:3379:LEU:HG	2.15	0.45
2:H:55:VAL:CG1	2:H:59:TRP:HB2	2.46	0.45
2:H:94:HIS:ND1	2:H:94:HIS:N	2.64	0.45
2:G:25:HIS:CB	2:G:102:GLU:OE2	2.63	0.45
2:F:49:MET:CG	2:F:52:LYS:HZ1	2.29	0.45
1:B:206:CYS:HA	1:B:334:MET:HE1	1.99	0.45
1:B:476:SER:O	1:B:480:GLU:HG2	2.15	0.45
1:B:1229:ASN:O	1:B:1827:ARG:HB2	2.17	0.45
1:B:1280:GLN:O	1:B:1281:ASN:OD1	2.35	0.45
1:B:1842:LEU:HD13	1:B:1938:GLN:HB2	1.97	0.45
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	1.98	0.45
1:B:2333:ASP:OD1	1:B:2334:PHE:N	2.50	0.45
1:B:2758:PHE:CD1	1:B:2929:PHE:CD2	3.04	0.45
1:B:2879:ALA:HB1	1:B:2916:LYS:HZ2	1.81	0.45
1:B:3062:PRO:HA	1:B:3065:VAL:HG12	1.99	0.45
1:B:3108:GLU:O	1:B:3111:ARG:HB2	2.16	0.45
1:B:3346:VAL:HG11	1:B:3414:ARG:HB2	1.97	0.45
1:B:3365:LEU:HD12	1:B:3408:LEU:HD21	1.98	0.45
1:B:3969:ILE:HD11	1:B:4029:SER:HB2	1.99	0.45
1:B:4157:ASP:C	1:B:4161:ARG:CZ	2.89	0.45
1:B:4903:ASP:OD2	1:B:4905:ALA:HB2	2.16	0.45
1:B:5036:LEU:O	1:B:5037:SER:CB	2.64	0.45
1:D:281:ARG:NH2	1:D:309:THR:OG1	2.49	0.45
1:D:1431:THR:HG21	1:D:1523:ALA:H	1.82	0.45
1:D:2211:MET:CE	1:D:2232:CYS:HB2	2.47	0.45
1:D:3157:ILE:HG22	1:D:3162:GLN:HG3	1.99	0.45
1:C:745:SER:OG	1:C:758:ARG:HB2	2.17	0.45
1:C:1230:MET:CE	1:C:1234:VAL:HG22	2.46	0.45
1:C:1505:GLN:HA	1:C:1508:ARG:HB2	1.99	0.45
1:C:1983:ALA:HA	1:C:1986:MET:HE2	1.97	0.45
1:C:2886:TRP:NE1	1:C:2890:LYS:HZ1	2.14	0.45
1:C:3277:LEU:HD21	1:C:3281:LEU:HD11	1.98	0.45
1:C:4731:ILE:HG23	1:C:4732:PHE:N	2.32	0.45
1:C:4903:ASP:OD2	1:C:4905:ALA:HB2	2.16	0.45
1:A:182:LEU:HD12	1:A:190:GLN:O	2.17	0.45
1:A:939:VAL:HG23	1:A:1053:ILE:HD13	1.98	0.45
1:A:1280:GLN:O	1:A:1281:ASN:OD1	2.35	0.45
1:A:1431:THR:HG21	1:A:1523:ALA:H	1.82	0.45
1:A:1505:GLN:HA	1:A:1508:ARG:HB2	1.99	0.45
1:A:1983:ALA:HA	1:A:1986:MET:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3108:GLU:O	1:A:3111:ARG:HB2	2.16	0.45
1:A:4157:ASP:C	1:A:4161:ARG:CZ	2.89	0.45
1:A:5032:TYR:O	1:A:5036:LEU:N	2.37	0.45
1:B:1171:SER:HG	1:B:1175:SER:HG	1.58	0.45
1:B:3016:TYR:CZ	1:B:3031:ALA:HA	2.52	0.45
1:B:3096:PHE:CD2	1:B:3161:VAL:HG12	2.52	0.45
1:B:3725:TYR:HA	1:B:3728:ILE:HD12	1.99	0.45
1:B:3842:LEU:HG	1:B:3875:MET:SD	2.57	0.45
1:B:4157:ASP:H	1:B:4161:ARG:NH1	2.09	0.45
1:D:708:GLY:N	1:D:713:SER:OG	2.43	0.45
1:D:1860:LYS:O	1:D:1864:LYS:HG2	2.16	0.45
1:D:2333:ASP:OD1	1:D:2334:PHE:N	2.50	0.45
1:C:206:CYS:HA	1:C:334:MET:HE1	1.99	0.45
1:C:472:ARG:NE	1:C:532:GLY:O	2.48	0.45
1:C:1079:LYS:HA	1:C:1189:LEU:HD11	1.99	0.45
1:C:1116:GLY:O	1:C:1134:LEU:N	2.50	0.45
1:C:2823:ILE:O	1:C:2823:ILE:HG23	2.16	0.45
1:C:3941:ASP:N	1:C:3941:ASP:OD1	2.49	0.45
1:A:1116:GLY:O	1:A:1134:LEU:N	2.50	0.45
1:A:2129:ASP:O	1:A:2133:GLU:OE1	2.35	0.45
1:A:3696:ASP:O	1:A:3700:GLN:HG3	2.17	0.45
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.99	0.45
2:E:25:HIS:CB	2:E:102:GLU:OE2	2.63	0.45
2:F:94:HIS:ND1	2:F:94:HIS:N	2.64	0.45
1:B:689:THR:HG21	1:B:776:LEU:HB2	1.98	0.45
1:B:1027:LEU:HD21	1:B:1031:THR:HG22	1.98	0.45
1:B:1230:MET:CE	1:B:1234:VAL:HG22	2.46	0.45
1:B:1527:MET:HE3	1:B:1540:PHE:CB	2.47	0.45
1:B:1762:LEU:HD12	1:B:1863:LEU:HD13	1.97	0.45
1:B:1835:GLU:O	1:B:1839:VAL:HG23	2.17	0.45
1:B:2452:ARG:NH1	1:C:144:GLU:OE2	2.50	0.45
1:B:3524:MET:HG2	1:B:3595:ARG:CD	2.46	0.45
1:B:5034:ASP:OD2	1:B:5034:ASP:N	2.49	0.45
1:D:206:CYS:HA	1:D:334:MET:HE1	1.99	0.45
1:D:472:ARG:NE	1:D:532:GLY:O	2.48	0.45
1:D:1116:GLY:O	1:D:1134:LEU:N	2.50	0.45
1:D:1505:GLN:HA	1:D:1508:ARG:HB2	1.99	0.45
1:D:1792:ALA:HA	1:D:2173:GLN:HG2	1.98	0.45
1:D:2090:LYS:NZ	1:D:2092:GLN:OE1	2.45	0.45
1:D:2674:LEU:HD23	1:D:2677:LYS:CE	2.47	0.45
1:D:3696:ASP:O	1:D:3700:GLN:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4580:TYR:CE2	1:D:4630:TYR:HB3	2.52	0.45
1:C:2579:VAL:O	1:C:2583:LEU:HG	2.17	0.45
1:C:2674:LEU:HD23	1:C:2677:LYS:CE	2.47	0.45
1:C:2676:ARG:O	1:C:2679:PHE:HB3	2.17	0.45
1:C:4124:ASN:OD1	1:C:4127:GLU:HG3	2.17	0.45
1:C:4720:VAL:HA	1:C:4723:LYS:HE2	1.97	0.45
1:C:4797:VAL:O	1:C:4801:LEU:HD23	2.17	0.45
1:A:206:CYS:HA	1:A:334:MET:HE1	1.99	0.45
1:A:221:ARG:HH12	1:A:254:THR:HA	1.81	0.45
1:A:360:ALA:O	1:A:361:ALA:CB	2.64	0.45
1:A:682:LEU:HD13	1:A:787:VAL:HG21	1.98	0.45
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.98	0.45
1:A:2668:SER:O	1:A:2669:GLU:CG	2.59	0.45
1:A:3401:LEU:O	1:A:3405:LEU:HG	2.16	0.45
1:A:3992:PHE:HB3	1:A:3996:PHE:CE2	2.52	0.45
1:A:4731:ILE:HG23	1:A:4732:PHE:N	2.32	0.45
2:E:16:PRO:HG2	2:E:63:VAL:HG12	1.98	0.45
2:G:49:MET:CG	2:G:52:LYS:HZ1	2.29	0.45
1:B:745:SER:OG	1:B:758:ARG:HB2	2.17	0.45
1:B:2014:ASP:O	1:B:2015:GLU:HB3	2.17	0.45
1:B:2676:ARG:O	1:B:2679:PHE:HB3	2.17	0.45
1:B:2886:TRP:NE1	1:B:2890:LYS:HZ1	2.15	0.45
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.99	0.45
1:D:224:HIS:CD2	1:D:247:TYR:CE2	3.05	0.45
1:D:1861:GLN:HB3	1:D:1865:MET:HE3	1.99	0.45
1:D:3016:TYR:CZ	1:D:3031:ALA:HA	2.52	0.45
1:D:3145:GLN:OE1	1:D:3145:GLN:HA	2.16	0.45
1:C:280:LEU:HD12	1:C:281:ARG:H	1.82	0.45
1:C:732:SER:O	1:C:735:GLN:HG3	2.17	0.45
1:C:871:ARG:NH1	1:C:922:LEU:HD12	2.32	0.45
1:C:1792:ALA:HA	1:C:2173:GLN:HG2	1.98	0.45
1:C:1835:GLU:O	1:C:1839:VAL:HG23	2.17	0.45
1:C:2211:MET:CE	1:C:2232:CYS:HB2	2.47	0.45
1:C:3062:PRO:HA	1:C:3065:VAL:HG12	1.99	0.45
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.45
1:C:3802:ILE:HD12	1:C:3886:ARG:CG	2.47	0.45
1:C:3992:PHE:HB3	1:C:3996:PHE:CE2	2.52	0.45
1:C:4580:TYR:CE2	1:C:4630:TYR:HB3	2.52	0.45
1:A:59:PRO:HB2	1:A:290:TYR:CZ	2.51	0.45
1:A:871:ARG:NH1	1:A:922:LEU:HD12	2.32	0.45
1:A:3145:GLN:OE1	1:A:3145:GLN:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3337:ARG:HA	1:A:3340:VAL:HG22	1.98	0.45
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.50	0.45
1:A:3802:ILE:HD12	1:A:3886:ARG:CG	2.47	0.45
1:A:4797:VAL:O	1:A:4801:LEU:HD23	2.17	0.45
1:A:4901:ILE:HG13	1:A:4913:ARG:NH2	2.32	0.45
2:E:94:HIS:ND1	2:E:94:HIS:N	2.64	0.45
2:F:2:VAL:HG22	2:F:58:GLY:HA2	1.99	0.45
2:F:16:PRO:HG2	2:F:63:VAL:HG12	1.98	0.45
2:F:49:MET:HB3	2:F:52:LYS:HE2	1.98	0.45
1:B:321:GLU:OE2	1:B:323:LEU:HD22	2.17	0.45
1:B:732:SER:O	1:B:735:GLN:HG3	2.17	0.45
1:B:2302:LEU:HD23	1:B:2302:LEU:C	2.42	0.45
1:B:3262:ARG:O	1:B:3266:MET:SD	2.75	0.45
1:B:3802:ILE:HD12	1:B:3886:ARG:CG	2.47	0.45
1:B:4162:ASN:OD1	1:B:4162:ASN:C	2.60	0.45
1:B:4720:VAL:HA	1:B:4723:LYS:HE2	1.97	0.45
1:D:221:ARG:HH12	1:D:254:THR:HA	1.81	0.45
1:D:745:SER:OG	1:D:758:ARG:HB2	2.17	0.45
1:D:768:PHE:CE1	1:D:1474:VAL:HG22	2.52	0.45
1:D:1027:LEU:HD21	1:D:1031:THR:HG22	1.98	0.45
1:D:1069:TRP:CZ3	1:D:1112:ASP:CB	3.00	0.45
1:D:1100:MET:HE1	1:D:1199:VAL:O	2.17	0.45
1:D:1280:GLN:O	1:D:1281:ASN:OD1	2.35	0.45
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.17	0.45
1:D:3388:GLU:OE1	1:D:3388:GLU:N	2.46	0.45
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.53	0.45
1:D:3833:GLN:O	1:D:3837:GLN:OE1	2.34	0.45
1:D:3842:LEU:HG	1:D:3875:MET:SD	2.57	0.45
1:D:4157:ASP:C	1:D:4161:ARG:CZ	2.89	0.45
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.52	0.45
1:C:322:LYS:HG3	1:C:322:LYS:O	2.16	0.45
1:C:1069:TRP:CZ3	1:C:1112:ASP:CB	3.00	0.45
1:C:2128:TYR:HB2	1:C:3673:MET:CE	2.47	0.45
1:C:2858:GLN:OE1	1:C:2932:MET:HE1	2.17	0.45
1:C:3016:TYR:CZ	1:C:3031:ALA:HA	2.52	0.45
1:C:3337:ARG:HA	1:C:3340:VAL:HG22	1.98	0.45
1:C:3696:ASP:O	1:C:3700:GLN:HG3	2.17	0.45
1:C:4901:ILE:HG13	1:C:4913:ARG:NH2	2.32	0.45
1:A:1079:LYS:HA	1:A:1189:LEU:HD11	1.99	0.44
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	1.98	0.44
1:A:2161:GLN:O	1:A:2165:LEU:HD13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2354:VAL:O	1:A:2358:ILE:HG23	2.17	0.44
1:A:2676:ARG:O	1:A:2679:PHE:HB3	2.17	0.44
1:A:2930:LEU:O	1:A:2935:TYR:N	2.47	0.44
1:A:4573:ILE:HG23	1:A:4643:LEU:HD11	1.99	0.44
2:F:55:VAL:HG12	2:F:59:TRP:HB2	1.99	0.44
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.52	0.44
1:B:224:HIS:CD2	1:B:247:TYR:CE2	3.05	0.44
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.99	0.44
1:B:2155:LEU:HD21	1:B:2188:ASN:CG	2.43	0.44
1:B:2326:CYS:SG	1:B:2327:GLY:N	2.90	0.44
1:B:2354:VAL:O	1:B:2358:ILE:HG23	2.17	0.44
1:B:3111:ARG:HH22	1:B:3175:LEU:HD12	1.82	0.44
1:B:4573:ILE:HG23	1:B:4643:LEU:HD11	1.99	0.44
1:B:4944:ARG:NE	1:C:4938:ASP:OD2	2.45	0.44
1:D:1286:MET:HB3	1:D:1288:PHE:CE1	2.51	0.44
1:D:1527:MET:HE3	1:D:1540:PHE:CB	2.47	0.44
1:D:1930:LYS:C	1:D:1931:LEU:HG	2.43	0.44
1:D:2354:VAL:O	1:D:2358:ILE:HG23	2.17	0.44
1:D:2579:VAL:O	1:D:2583:LEU:HG	2.17	0.44
1:D:2676:ARG:O	1:D:2679:PHE:HB3	2.17	0.44
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.16	0.44
1:D:3262:ARG:O	1:D:3266:MET:SD	2.75	0.44
1:C:182:LEU:HD12	1:C:190:GLN:O	2.17	0.44
1:C:404:ILE:HG23	1:C:483:MET:HE2	1.98	0.44
1:C:574:VAL:HA	1:C:577:ILE:HG12	1.98	0.44
1:C:1100:MET:HE1	1:C:1199:VAL:O	2.17	0.44
1:C:1229:ASN:O	1:C:1827:ARG:HB2	2.17	0.44
1:C:1453:VAL:HG22	1:C:1551:ALA:HB2	1.97	0.44
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.17	0.44
1:C:4162:ASN:OD1	1:C:4162:ASN:C	2.60	0.44
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.17	0.44
1:A:36:CYS:SG	1:A:65:CYS:HB3	2.58	0.44
1:A:985:VAL:HG11	1:A:1040:CYS:SG	2.56	0.44
1:A:1100:MET:HE1	1:A:1199:VAL:O	2.17	0.44
1:A:2155:LEU:HD21	1:A:2188:ASN:CG	2.43	0.44
1:A:2302:LEU:HD23	1:A:2302:LEU:C	2.42	0.44
1:A:2333:ASP:OD1	1:A:2334:PHE:N	2.50	0.44
1:A:3016:TYR:CZ	1:A:3031:ALA:HA	2.52	0.44
1:A:3111:ARG:HH22	1:A:3175:LEU:HD12	1.81	0.44
1:A:3524:MET:HG2	1:A:3595:ARG:CD	2.46	0.44
1:A:4218:ILE:O	1:A:4222:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:701:GLY:N	1:B:1645:ASN:O	2.37	0.44
1:B:2128:TYR:HB2	1:B:3673:MET:CE	2.48	0.44
1:B:2211:MET:CE	1:B:2232:CYS:HB2	2.47	0.44
1:B:2549:ALA:CA	1:B:2552:ARG:NH1	2.81	0.44
1:B:3277:LEU:HD21	1:B:3281:LEU:HD11	1.98	0.44
1:B:3296:LEU:HD23	1:B:3296:LEU:C	2.41	0.44
1:B:3702:VAL:HA	1:B:3778:MET:HE1	1.98	0.44
1:B:3992:PHE:HB3	1:B:3996:PHE:CE2	2.52	0.44
1:D:182:LEU:HD12	1:D:190:GLN:O	2.17	0.44
1:D:321:GLU:OE2	1:D:323:LEU:HD22	2.17	0.44
1:D:404:ILE:HG23	1:D:483:MET:HE2	1.98	0.44
1:D:1476:MET:O	1:D:1484:HIS:N	2.51	0.44
1:D:2128:TYR:HB2	1:D:3673:MET:CE	2.48	0.44
1:D:2161:GLN:O	1:D:2165:LEU:HD13	2.17	0.44
1:D:2858:GLN:OE1	1:D:2932:MET:HE1	2.17	0.44
1:D:3225:ARG:NE	1:D:3226:GLU:OE1	2.51	0.44
1:C:2182:ILE:CD1	1:C:2231:SER:HB2	2.48	0.44
1:C:2255:SER:O	1:C:2258:LEU:N	2.48	0.44
1:C:2302:LEU:HD23	1:C:2302:LEU:C	2.42	0.44
1:C:2354:VAL:O	1:C:2358:ILE:HG23	2.17	0.44
1:A:46:LEU:HD23	1:A:47:CYS:O	2.17	0.44
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.52	0.44
1:A:224:HIS:CD2	1:A:247:TYR:CE2	3.05	0.44
1:A:280:LEU:HD12	1:A:281:ARG:H	1.82	0.44
1:A:744:VAL:HG22	1:A:759:ILE:HD13	1.99	0.44
1:A:1527:MET:HE3	1:A:1540:PHE:CB	2.47	0.44
1:A:2538:THR:C	1:A:2542:SER:HG	2.25	0.44
1:A:3262:ARG:O	1:A:3266:MET:SD	2.75	0.44
1:A:3579:LEU:HD23	1:A:3581:GLY:N	2.32	0.44
1:A:3781:GLN:OE1	1:A:3819:TYR:CE2	2.70	0.44
1:A:3969:ILE:HD11	1:A:4029:SER:HB2	1.99	0.44
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.18	0.44
1:B:871:ARG:NH1	1:B:922:LEU:HD12	2.32	0.44
1:B:2129:ASP:O	1:B:2133:GLU:OE1	2.35	0.44
1:B:3781:GLN:OE1	1:B:3819:TYR:CE2	2.70	0.44
1:B:4901:ILE:HG13	1:B:4913:ARG:NH2	2.32	0.44
1:D:861:ILE:HG23	1:D:861:ILE:O	2.16	0.44
1:D:1929:MET:O	1:D:1930:LYS:CB	2.66	0.44
1:D:2302:LEU:HD23	1:D:2302:LEU:C	2.42	0.44
1:D:2722:LYS:HB2	1:D:2724:GLU:OE1	2.17	0.44
1:D:2988:LYS:HZ1	1:D:2990:PRO:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3062:PRO:HA	1:D:3065:VAL:HG12	1.99	0.44
1:D:3524:MET:HG2	1:D:3595:ARG:CD	2.46	0.44
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.49	0.44
1:D:4218:ILE:O	1:D:4222:VAL:HG23	2.17	0.44
1:D:4573:ILE:HG23	1:D:4643:LEU:HD11	1.99	0.44
1:D:4651:THR:HG1	1:D:4799:SER:HG	1.64	0.44
1:D:4870:ASP:OD1	1:D:4871:GLU:N	2.51	0.44
1:C:213:TYR:HA	1:C:339:ILE:O	2.18	0.44
1:C:495:ASN:O	1:C:496:VAL:C	2.59	0.44
1:C:689:THR:HG21	1:C:776:LEU:HB2	1.98	0.44
1:C:701:GLY:N	1:C:1645:ASN:O	2.37	0.44
1:C:2155:LEU:HD21	1:C:2188:ASN:CG	2.43	0.44
1:C:2891:LYS:HA	1:C:2894:LEU:HB2	2.00	0.44
1:C:3283:ARG:HG2	1:C:3287:ARG:NH1	2.32	0.44
1:C:3579:LEU:HD23	1:C:3581:GLY:N	2.33	0.44
1:A:213:TYR:HA	1:A:339:ILE:O	2.17	0.44
1:A:293:LEU:HD13	1:A:378:LEU:HD13	1.99	0.44
1:A:891:TRP:HE3	1:A:904:HIS:HD1	1.65	0.44
1:A:1298:HIS:HE1	1:A:1431:THR:HG23	1.83	0.44
1:A:1497:GLY:O	1:A:1501:VAL:HG13	2.18	0.44
1:A:2206:THR:O	1:A:2210:VAL:HG23	2.17	0.44
1:A:2326:CYS:SG	1:A:2327:GLY:N	2.90	0.44
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.51	0.44
1:A:3320:LEU:CD1	1:A:3353:LEU:HD21	2.48	0.44
1:A:3617:LYS:HG3	1:A:3618:ALA:N	2.31	0.44
1:A:4124:ASN:OD1	1:A:4127:GLU:HG3	2.17	0.44
2:E:2:VAL:HG22	2:E:58:GLY:HA2	1.99	0.44
2:E:55:VAL:HG12	2:E:59:TRP:HB2	1.99	0.44
2:F:57:ARG:NH1	2:F:80:TYR:CE1	2.86	0.44
1:B:293:LEU:HD13	1:B:378:LEU:HD13	1.99	0.44
1:B:495:ASN:O	1:B:496:VAL:C	2.59	0.44
1:B:2155:LEU:HD11	1:B:2185:ILE:HG23	2.00	0.44
1:B:4152:GLU:OE1	1:B:4194:TYR:OH	2.20	0.44
1:B:4221:VAL:O	1:B:4225:GLY:N	2.51	0.44
1:B:4778:TRP:O	1:B:4782:VAL:HG23	2.17	0.44
1:B:4991:PHE:CE2	1:B:4995:LEU:HD11	2.52	0.44
1:D:149:THR:HG23	1:D:174:VAL:HG22	1.98	0.44
1:D:516:LYS:O	1:D:519:VAL:HG22	2.18	0.44
1:D:2185:ILE:HG21	1:D:2203:MET:HE1	1.98	0.44
1:D:2326:CYS:SG	1:D:2327:GLY:N	2.90	0.44
1:D:3439:GLY:O	1:D:3443:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3725:TYR:HA	1:D:3728:ILE:HD12	1.99	0.44
1:D:4797:VAL:O	1:D:4801:LEU:HD23	2.17	0.44
1:D:5032:TYR:O	1:D:5036:LEU:N	2.37	0.44
1:C:725:HIS:ND1	1:C:725:HIS:O	2.51	0.44
1:C:1280:GLN:O	1:C:1281:ASN:OD1	2.35	0.44
1:C:1527:MET:HE3	1:C:1540:PHE:CB	2.47	0.44
1:C:2326:CYS:SG	1:C:2327:GLY:N	2.90	0.44
1:C:2722:LYS:HB2	1:C:2724:GLU:OE1	2.17	0.44
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.53	0.44
1:C:4820:VAL:HG12	1:C:4822:THR:N	2.33	0.44
1:A:829:TYR:O	1:A:840:VAL:N	2.42	0.44
1:A:1069:TRP:CE2	1:A:1602:PRO:CG	3.01	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44
1:A:2128:TYR:HB2	1:A:3673:MET:CE	2.48	0.44
1:A:2673:HIS:ND1	1:A:2716:ASP:OD1	2.51	0.44
1:A:2674:LEU:HD23	1:A:2677:LYS:CE	2.47	0.44
1:A:3115:VAL:O	1:A:3116:SER:HB3	2.18	0.44
1:A:3227:ARG:HA	1:A:3230:LEU:HG	1.99	0.44
1:A:3354:LEU:CD1	1:A:3415:TYR:CE2	2.99	0.44
1:A:3365:LEU:HD12	1:A:3408:LEU:HD21	1.98	0.44
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.52	0.44
2:H:2:VAL:HG22	2:H:58:GLY:HA2	1.99	0.44
2:G:57:ARG:NH1	2:G:80:TYR:CE1	2.86	0.44
1:B:1154:ASP:OD1	1:B:1156:THR:OG1	2.36	0.44
1:B:1861:GLN:HB3	1:B:1865:MET:HE3	1.99	0.44
1:B:1922:LEU:O	1:B:1922:LEU:HG	2.18	0.44
1:B:1930:LYS:C	1:B:1931:LEU:HG	2.43	0.44
1:B:2182:ILE:CD1	1:B:2231:SER:HB2	2.48	0.44
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.17	0.44
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.51	0.44
1:B:2701:PRO:O	1:B:2704:CYS:N	2.51	0.44
1:B:3225:ARG:NE	1:B:3226:GLU:OE1	2.51	0.44
1:B:3579:LEU:HD23	1:B:3581:GLY:N	2.32	0.44
1:B:3782:MET:O	1:B:3786:CYS:SG	2.76	0.44
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.52	0.44
1:D:891:TRP:HE3	1:D:904:HIS:HD1	1.65	0.44
1:D:1298:HIS:HE1	1:D:1431:THR:HG23	1.83	0.44
1:D:1922:LEU:HG	1:D:1922:LEU:O	2.18	0.44
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.51	0.44
1:D:2672:LEU:HD22	1:D:2710:LEU:HD13	2.00	0.44
1:D:3320:LEU:CD1	1:D:3353:LEU:HD21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.18	0.44
1:D:4783:ILE:O	1:D:4786:ASP:OD1	2.36	0.44
1:D:4834:GLY:O	1:D:4838:VAL:HG23	2.18	0.44
1:D:4901:ILE:HG13	1:D:4913:ARG:NH2	2.32	0.44
1:C:224:HIS:CD2	1:C:247:TYR:CE2	3.05	0.44
1:C:768:PHE:CE1	1:C:1474:VAL:HG22	2.52	0.44
1:C:1112:ASP:CG	1:C:1113:VAL:N	2.74	0.44
1:C:1154:ASP:OD1	1:C:1156:THR:OG1	2.36	0.44
1:C:1476:MET:O	1:C:1484:HIS:N	2.51	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:2014:ASP:O	1:C:2015:GLU:HB3	2.17	0.44
1:C:2129:ASP:O	1:C:2133:GLU:OE1	2.35	0.44
1:C:2185:ILE:HG21	1:C:2203:MET:HE1	1.98	0.44
1:C:2333:ASP:OD1	1:C:2334:PHE:N	2.50	0.44
1:C:2696:TYR:O	1:C:2700:MET:SD	2.74	0.44
1:C:2991:HIS:O	1:C:2992:GLU:C	2.61	0.44
1:C:3842:LEU:HG	1:C:3875:MET:SD	2.57	0.44
1:C:4573:ILE:HG23	1:C:4643:LEU:HD11	1.99	0.44
1:A:404:ILE:HG23	1:A:483:MET:HE2	1.98	0.44
1:A:725:HIS:ND1	1:A:725:HIS:O	2.51	0.44
1:A:2182:ILE:CD1	1:A:2231:SER:HB2	2.48	0.44
1:A:2858:GLN:OE1	1:A:2932:MET:HE1	2.17	0.44
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.53	0.44
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.17	0.44
1:B:36:CYS:SG	1:B:65:CYS:HB3	2.58	0.44
1:B:182:LEU:HD12	1:B:190:GLN:O	2.17	0.44
1:B:1069:TRP:CE2	1:B:1602:PRO:CG	3.01	0.44
1:B:1298:HIS:HE1	1:B:1431:THR:HG23	1.83	0.44
1:B:1497:GLY:O	1:B:1501:VAL:HG13	2.18	0.44
1:B:2369[A]:ARG:NH2	1:B:2372:GLY:O	2.45	0.44
1:B:2673:HIS:ND1	1:B:2716:ASP:OD1	2.51	0.44
1:B:2674:LEU:HD23	1:B:2677:LYS:CE	2.47	0.44
1:B:3283:ARG:HG2	1:B:3287:ARG:NH1	2.32	0.44
1:B:3567:PRO:HA	1:B:3570:ARG:HB3	2.00	0.44
1:B:3937:TYR:CD1	1:B:3940:LYS:HD2	2.53	0.44
1:D:732:SER:O	1:D:735:GLN:HG3	2.17	0.44
1:D:1069:TRP:CE2	1:D:1602:PRO:CG	3.01	0.44
1:D:2135:LEU:O	1:D:2139:PRO:HD3	2.18	0.44
1:D:2155:LEU:HD21	1:D:2188:ASN:CG	2.43	0.44
1:D:2634:ASN:OD1	1:D:2637:ALA:N	2.51	0.44
1:D:3227:ARG:HA	1:D:3230:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3433:GLU:HG3	1:D:3437:MET:SD	2.58	0.44
1:D:4162:ASN:OD1	1:D:4162:ASN:C	2.60	0.44
1:D:4991:PHE:CE2	1:D:4995:LEU:HD11	2.52	0.44
1:C:870:ILE:HD11	1:C:1049:TYR:CD2	2.53	0.44
1:C:1027:LEU:HD21	1:C:1031:THR:HG22	1.98	0.44
1:C:1497:GLY:O	1:C:1501:VAL:HG13	2.17	0.44
1:C:3567:PRO:HA	1:C:3570:ARG:HB3	1.99	0.44
1:C:3702:VAL:HA	1:C:3778:MET:HE1	1.98	0.44
1:C:3725:TYR:HA	1:C:3728:ILE:HD12	1.99	0.44
1:C:3937:TYR:CD1	1:C:3940:LYS:HD2	2.53	0.44
1:C:3969:ILE:HD11	1:C:4029:SER:HB2	1.99	0.44
1:C:4680:LYS:O	1:C:4685:GLY:N	2.47	0.44
1:A:1154:ASP:OD1	1:A:1156:THR:OG1	2.36	0.44
1:A:1861:GLN:HB3	1:A:1865:MET:HE3	1.99	0.44
1:A:2014:ASP:O	1:A:2015:GLU:HB3	2.17	0.44
1:A:2155:LEU:HD11	1:A:2185:ILE:HG23	2.00	0.44
1:A:2166:LEU:CD1	1:A:2206:THR:HG23	2.44	0.44
1:A:2722:LYS:HB2	1:A:2724:GLU:OE1	2.17	0.44
1:A:3628:ARG:O	1:A:3631:ALA:N	2.42	0.44
1:A:4231:MET:CE	1:A:5022:PHE:CD1	3.01	0.44
1:A:4820:VAL:HG12	1:A:4822:THR:N	2.33	0.44
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.18	0.44
2:G:55:VAL:HG12	2:G:59:TRP:HB2	1.99	0.44
1:B:213:TYR:HA	1:B:339:ILE:O	2.18	0.44
1:B:280:LEU:HD12	1:B:281:ARG:H	1.82	0.44
1:B:682:LEU:HD13	1:B:787:VAL:HG21	1.98	0.44
1:B:725:HIS:O	1:B:725:HIS:ND1	2.51	0.44
1:B:950:LEU:HD21	1:B:1048:GLY:O	2.18	0.44
1:B:1116:GLY:O	1:B:1134:LEU:N	2.50	0.44
1:B:1431:THR:HG21	1:B:1523:ALA:H	1.82	0.44
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	2.00	0.44
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.17	0.44
1:B:2549:ALA:HA	1:B:2552:ARG:CZ	2.48	0.44
1:B:2891:LYS:O	1:B:2895:GLU:CD	2.61	0.44
1:B:2930:LEU:O	1:B:2935:TYR:N	2.47	0.44
1:B:3439:GLY:O	1:B:3443:ILE:HG12	2.18	0.44
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.49	0.44
1:B:4000:MET:HE3	1:B:4017:LEU:HD21	1.99	0.44
1:B:4231:MET:CE	1:B:5022:PHE:CD1	3.01	0.44
1:B:4581:LYS:HD2	1:B:4582:VAL:N	2.33	0.44
1:B:4870:ASP:OD1	1:B:4871:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:574:VAL:HA	1:D:577:ILE:HG12	1.98	0.44
1:D:725:HIS:ND1	1:D:725:HIS:O	2.51	0.44
1:D:870:ILE:HD11	1:D:1049:TYR:CD2	2.53	0.44
1:D:899:ASP:O	1:D:902:ARG:NH2	2.44	0.44
1:D:2872:GLN:O	1:D:2873:ALA:C	2.61	0.44
1:D:2891:LYS:O	1:D:2895:GLU:CD	2.61	0.44
1:D:3261:ALA:C	1:D:3266:MET:HE1	2.43	0.44
1:D:3781:GLN:OE1	1:D:3819:TYR:CE2	2.70	0.44
1:D:3802:ILE:HD12	1:D:3886:ARG:CG	2.47	0.44
1:D:3992:PHE:HB3	1:D:3996:PHE:CE2	2.52	0.44
1:D:4231:MET:CE	1:D:5022:PHE:CD1	3.01	0.44
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.99	0.44
1:C:46:LEU:HD23	1:C:47:CYS:O	2.17	0.44
1:C:516:LYS:O	1:C:519:VAL:HG22	2.18	0.44
1:C:1922:LEU:HG	1:C:1922:LEU:O	2.18	0.44
1:C:4231:MET:CE	1:C:5022:PHE:CD1	3.01	0.44
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.52	0.44
1:A:1206:GLN:N	1:A:1227:ALA:HB3	2.33	0.44
1:A:1922:LEU:HG	1:A:1922:LEU:O	2.18	0.44
1:A:2701:PRO:O	1:A:2704:CYS:N	2.51	0.44
1:A:2859:PRO:HB3	1:A:2932:MET:CE	2.48	0.44
1:A:3062:PRO:HA	1:A:3065:VAL:HG12	1.99	0.44
1:A:3207:GLU:OE1	1:A:3280:TYR:OH	2.29	0.44
1:A:3225:ARG:NE	1:A:3226:GLU:OE1	2.51	0.44
1:A:3433:GLU:HG3	1:A:3437:MET:SD	2.58	0.44
1:A:3439:GLY:O	1:A:3443:ILE:HG12	2.18	0.44
2:H:55:VAL:HG12	2:H:59:TRP:HB2	1.99	0.44
1:B:1100:MET:HE1	1:B:1199:VAL:O	2.17	0.44
1:B:2991:HIS:O	1:B:2992:GLU:C	2.61	0.44
1:B:4218:ILE:O	1:B:4222:VAL:HG23	2.17	0.44
1:B:4731:ILE:HG23	1:B:4732:PHE:N	2.32	0.44
1:B:4834:GLY:O	1:B:4838:VAL:HG23	2.18	0.44
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.18	0.44
1:D:701:GLY:N	1:D:1645:ASN:O	2.36	0.44
1:D:2014:ASP:O	1:D:2015:GLU:HB3	2.17	0.44
1:D:2129:ASP:O	1:D:2133:GLU:OE1	2.35	0.44
1:D:2182:ILE:CD1	1:D:2231:SER:HB2	2.48	0.44
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.83	0.44
1:D:2673:HIS:ND1	1:D:2716:ASP:OD1	2.51	0.44
1:D:3579:LEU:HD23	1:D:3581:GLY:N	2.32	0.44
1:C:173:SER:OG	1:C:176:SER:OG	1.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:744:VAL:HG22	1:C:759:ILE:HD13	1.99	0.44
1:C:2549:ALA:CA	1:C:2552:ARG:NH1	2.81	0.44
1:C:2891:LYS:O	1:C:2895:GLU:CD	2.61	0.44
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	2.00	0.44
1:C:4581:LYS:HD2	1:C:4582:VAL:N	2.33	0.44
1:C:4834:GLY:O	1:C:4838:VAL:HG23	2.18	0.44
1:A:1027:LEU:HD21	1:A:1031:THR:HG22	1.98	0.44
1:A:1286:MET:CE	1:A:1555:LEU:HD12	2.46	0.44
1:A:1835:GLU:O	1:A:1839:VAL:HG23	2.17	0.44
1:A:2858:GLN:N	1:A:2859:PRO:CD	2.81	0.44
1:A:2891:LYS:O	1:A:2895:GLU:CD	2.61	0.44
1:A:3135:ALA:O	1:A:3139:VAL:HG13	2.18	0.44
1:A:3199:ALA:O	1:A:3283:ARG:HD2	2.18	0.44
1:A:3329:ILE:O	1:A:3403:ARG:NH2	2.51	0.44
1:A:4747:SER:HA	1:A:4750:ILE:HG12	2.00	0.44
1:B:363:ASP:C	1:B:363:ASP:OD1	2.61	0.44
1:B:516:LYS:O	1:B:519:VAL:HG22	2.18	0.44
1:B:950:LEU:HD13	1:B:970:LEU:CD2	2.48	0.44
1:B:2170:MET:CE	1:B:2175:GLU:HB2	2.48	0.44
1:B:3320:LEU:CD1	1:B:3353:LEU:HD21	2.48	0.44
1:B:4185:GLY:CA	1:B:4191:GLU:OE1	2.66	0.44
1:B:4747:SER:HA	1:B:4750:ILE:HG12	2.00	0.44
1:D:280:LEU:HD12	1:D:281:ARG:H	1.82	0.44
1:D:871:ARG:NH1	1:D:922:LEU:HD12	2.32	0.44
1:D:1087:ARG:HB3	1:D:1223:PHE:CD1	2.53	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2747:ILE:HG21	1:D:2814:LYS:CG	2.44	0.44
1:D:2859:PRO:HB3	1:D:2932:MET:CE	2.48	0.44
1:D:3112:LEU:O	1:D:3112:LEU:HG	2.18	0.44
1:D:3306:ALA:O	1:D:3308:THR:HG23	2.18	0.44
1:D:3937:TYR:CD1	1:D:3940:LYS:HD2	2.53	0.44
1:C:363:ASP:C	1:C:363:ASP:OD1	2.61	0.44
1:C:1431:THR:HG21	1:C:1523:ALA:H	1.82	0.44
1:C:2254:LEU:O	1:C:2255:SER:C	2.61	0.44
1:C:3135:ALA:O	1:C:3139:VAL:HG13	2.18	0.44
1:C:3227:ARG:HA	1:C:3230:LEU:HG	1.99	0.44
1:C:3262:ARG:O	1:C:3266:MET:SD	2.75	0.44
1:C:3781:GLN:OE1	1:C:3819:TYR:CE2	2.70	0.44
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.18	0.44
1:C:4218:ILE:O	1:C:4222:VAL:HG23	2.17	0.44
1:C:4870:ASP:OD1	1:C:4871:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:VAL:O	1:A:29:LEU:HD23	2.18	0.43
1:A:768:PHE:CE1	1:A:1474:VAL:HG22	2.52	0.43
1:A:2170:MET:CE	1:A:2175:GLU:HB2	2.48	0.43
1:A:2214:VAL:HB	1:A:2228:MET:HE1	2.00	0.43
1:A:2254:LEU:O	1:A:2255:SER:C	2.61	0.43
1:A:2634:ASN:OD1	1:A:2637:ALA:N	2.51	0.43
1:A:4162:ASN:OD1	1:A:4162:ASN:C	2.60	0.43
1:A:4221:VAL:O	1:A:4225:GLY:N	2.51	0.43
1:A:4783:ILE:O	1:A:4786:ASP:OD1	2.36	0.43
1:B:46:LEU:HD23	1:B:47:CYS:O	2.17	0.43
1:B:1112:ASP:CG	1:B:1113:VAL:N	2.74	0.43
1:B:2214:VAL:HB	1:B:2228:MET:HE1	2.00	0.43
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.83	0.43
1:B:2634:ASN:OD1	1:B:2637:ALA:N	2.51	0.43
1:B:2775:TRP:CH2	1:B:2786:LYS:HE2	2.53	0.43
1:B:2907:PRO:O	1:B:2910:THR:OG1	2.30	0.43
1:B:3386:GLU:O	1:B:3389:GLU:HB3	2.18	0.43
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.53	0.43
1:B:3696:ASP:O	1:B:3700:GLN:HG3	2.17	0.43
1:B:4067:LYS:O	1:B:4070:ASP:OD1	2.36	0.43
1:D:213:TYR:HA	1:D:339:ILE:O	2.18	0.43
1:D:1154:ASP:OD1	1:D:1156:THR:OG1	2.36	0.43
1:D:1286:MET:CE	1:D:1555:LEU:HD12	2.46	0.43
1:D:1835:GLU:O	1:D:1839:VAL:HG23	2.17	0.43
1:D:2002:PRO:HB2	1:D:3652:MET:HE1	2.00	0.43
1:D:2203:MET:HE2	1:D:2235:PHE:CZ	2.53	0.43
1:D:2549:ALA:HA	1:D:2552:ARG:CZ	2.48	0.43
1:D:2775:TRP:CH2	1:D:2786:LYS:HE2	2.53	0.43
1:D:3015:LEU:HD12	1:D:3025:LEU:C	2.43	0.43
1:D:3111:ARG:HH22	1:D:3175:LEU:HD12	1.82	0.43
1:D:3567:PRO:HA	1:D:3570:ARG:HB3	2.00	0.43
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.18	0.43
1:C:950:LEU:HD13	1:C:970:LEU:CD2	2.48	0.43
1:C:1069:TRP:CE2	1:C:1602:PRO:CG	3.01	0.43
1:C:1206:GLN:N	1:C:1227:ALA:HB3	2.33	0.43
1:C:2002:PRO:HB2	1:C:3652:MET:HE1	2.00	0.43
1:C:2161:GLN:O	1:C:2165:LEU:HD13	2.17	0.43
1:C:2170:MET:CE	1:C:2175:GLU:HB2	2.48	0.43
1:C:2177:LEU:HD23	1:C:2177:LEU:C	2.43	0.43
1:C:2206:THR:O	1:C:2210:VAL:HG23	2.17	0.43
1:C:2549:ALA:HA	1:C:2552:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3112:LEU:HG	1:C:3112:LEU:O	2.18	0.43
1:C:3225:ARG:NE	1:C:3226:GLU:OE1	2.51	0.43
1:A:421:PHE:CE2	1:A:507:ALA:HA	2.53	0.43
1:A:2549:ALA:HA	1:A:2552:ARG:CZ	2.48	0.43
1:A:4067:LYS:O	1:A:4070:ASP:OD1	2.36	0.43
1:A:4870:ASP:OD1	1:A:4871:GLU:N	2.51	0.43
2:G:2:VAL:HG22	2:G:58:GLY:HA2	1.99	0.43
2:G:49:MET:HB3	2:G:52:LYS:HE2	1.98	0.43
1:B:2135:LEU:O	1:B:2139:PRO:HD3	2.18	0.43
1:B:2167:ILE:HG13	1:B:2168:VAL:N	2.33	0.43
1:B:2858:GLN:N	1:B:2859:PRO:CD	2.81	0.43
1:B:2891:LYS:HA	1:B:2894:LEU:HB2	2.00	0.43
1:B:3354:LEU:CD1	1:B:3415:TYR:CE2	2.99	0.43
1:B:4124:ASN:OD1	1:B:4127:GLU:HG3	2.17	0.43
1:D:744:VAL:HG22	1:D:759:ILE:HD13	1.99	0.43
1:D:1497:GLY:O	1:D:1501:VAL:HG13	2.17	0.43
1:D:2549:ALA:CA	1:D:2552:ARG:NH1	2.81	0.43
1:D:2891:LYS:HA	1:D:2894:LEU:HB2	2.00	0.43
1:D:3729:MET:HE2	1:D:3770:LEU:HD13	2.00	0.43
1:D:4045:VAL:O	1:D:4049:VAL:HG23	2.18	0.43
1:D:4124:ASN:OD1	1:D:4127:GLU:HG3	2.17	0.43
1:C:633:LEU:HD13	1:C:1639:LEU:HD11	2.00	0.43
1:C:908:VAL:HG23	1:C:909:ASN:N	2.33	0.43
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	2.00	0.43
1:C:2203:MET:HE2	1:C:2235:PHE:CZ	2.53	0.43
1:C:2214:VAL:HB	1:C:2228:MET:HE1	2.00	0.43
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.51	0.43
1:C:2498:HIS:O	1:C:2501:SER:OG	2.33	0.43
1:C:2673:HIS:ND1	1:C:2716:ASP:OD1	2.51	0.43
1:C:2761:TYR:HD2	1:C:2859:PRO:HD3	1.83	0.43
1:C:2894:LEU:O	1:C:2898:GLY:N	2.36	0.43
1:C:3115:VAL:O	1:C:3116:SER:HB3	2.18	0.43
1:C:3249:LEU:HD21	1:C:3273:THR:HG22	2.01	0.43
1:C:3261:ALA:C	1:C:3266:MET:HE1	2.43	0.43
1:C:3439:GLY:O	1:C:3443:ILE:HG12	2.18	0.43
1:A:155:LYS:HE2	1:D:228:ASP:OD2	2.19	0.43
1:A:1929:MET:O	1:A:1930:LYS:CB	2.66	0.43
1:A:2879:ALA:HB1	1:A:2916:LYS:HZ2	1.84	0.43
1:A:2892:GLN:HA	1:A:2895:GLU:OE1	2.18	0.43
1:A:3660:ALA:HB3	1:A:3661:TRP:HD1	1.84	0.43
1:A:3937:TYR:CD1	1:A:3940:LYS:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4551:PHE:CE2	1:A:4555:LEU:HD11	2.54	0.43
1:A:4581:LYS:HD2	1:A:4582:VAL:N	2.33	0.43
2:F:79:ASP:OD1	2:F:80:TYR:CD2	2.72	0.43
1:B:231:LEU:HD13	1:B:247:TYR:HE1	1.81	0.43
1:B:1469:VAL:HG22	1:B:1492:CYS:SG	2.59	0.43
1:B:2722:LYS:HB2	1:B:2724:GLU:OE1	2.17	0.43
1:B:2761:TYR:HD2	1:B:2859:PRO:HD3	1.83	0.43
1:B:3112:LEU:HG	1:B:3112:LEU:O	2.18	0.43
1:B:3135:ALA:O	1:B:3139:VAL:HG13	2.18	0.43
1:B:4551:PHE:CE2	1:B:4555:LEU:HD11	2.54	0.43
1:B:4674:GLU:OE2	1:B:4775:TYR:OH	2.30	0.43
1:D:710:ASP:OD1	1:D:713:SER:OG	2.36	0.43
1:D:909:ASN:HB3	1:D:912:SER:HB2	2.00	0.43
1:D:950:LEU:HD13	1:D:970:LEU:CD2	2.48	0.43
1:D:1469:VAL:HG22	1:D:1492:CYS:SG	2.58	0.43
1:D:2177:LEU:C	1:D:2177:LEU:HD23	2.43	0.43
1:D:2214:VAL:HB	1:D:2228:MET:HE1	2.00	0.43
1:D:2858:GLN:N	1:D:2859:PRO:CD	2.81	0.43
1:D:2991:HIS:O	1:D:2992:GLU:C	2.61	0.43
1:D:3115:VAL:O	1:D:3116:SER:HB3	2.18	0.43
1:D:3135:ALA:O	1:D:3139:VAL:HG13	2.18	0.43
1:D:3152:PHE:O	1:D:3156:VAL:HG23	2.19	0.43
1:D:3628:ARG:HB3	1:D:3631:ALA:HB3	2.00	0.43
1:C:1469:VAL:HG22	1:C:1492:CYS:SG	2.58	0.43
1:C:2672:LEU:HD22	1:C:2710:LEU:HD13	2.00	0.43
1:C:3306:ALA:O	1:C:3308:THR:HG23	2.18	0.43
1:C:3729:MET:HE2	1:C:3770:LEU:HD13	2.01	0.43
1:C:4185:GLY:CA	1:C:4191:GLU:OE1	2.66	0.43
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.18	0.43
1:C:4783:ILE:O	1:C:4786:ASP:OD1	2.36	0.43
1:A:363:ASP:C	1:A:363:ASP:OD1	2.61	0.43
1:A:870:ILE:HD11	1:A:1049:TYR:CD2	2.53	0.43
1:A:908:VAL:HG23	1:A:909:ASN:N	2.33	0.43
1:A:1469:VAL:HG22	1:A:1492:CYS:SG	2.59	0.43
1:A:1476:MET:O	1:A:1484:HIS:N	2.51	0.43
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	2.00	0.43
1:A:2135:LEU:O	1:A:2139:PRO:HD3	2.18	0.43
1:A:2793:PRO:O	1:A:2797:PHE:N	2.45	0.43
1:A:2970:SER:O	1:A:2974:ILE:HG12	2.18	0.43
1:A:3261:ALA:C	1:A:3266:MET:HE1	2.43	0.43
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2177:LEU:HD23	1:B:2177:LEU:C	2.43	0.43
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.53	0.43
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.19	0.43
1:B:2970:SER:O	1:B:2974:ILE:HG12	2.18	0.43
1:B:3332:ALA:CB	1:B:3335:MET:HE3	2.49	0.43
1:B:4797:VAL:O	1:B:4801:LEU:HD23	2.17	0.43
1:D:46:LEU:HD23	1:D:47:CYS:O	2.17	0.43
1:D:421:PHE:CE2	1:D:507:ALA:HA	2.53	0.43
1:D:633:LEU:HD13	1:D:1639:LEU:HD11	2.01	0.43
1:D:2701:PRO:O	1:D:2704:CYS:N	2.51	0.43
1:D:2926:LEU:O	1:D:2930:LEU:HD13	2.19	0.43
1:D:3199:ALA:O	1:D:3283:ARG:HD2	2.18	0.43
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.34	0.43
1:D:4185:GLY:CA	1:D:4191:GLU:OE1	2.66	0.43
1:C:36:CYS:SG	1:C:65:CYS:HB3	2.58	0.43
1:C:861:ILE:HG23	1:C:861:ILE:O	2.16	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.52	0.43
1:C:2255:SER:O	1:C:2259:GLU:OE1	2.37	0.43
1:C:2382:GLU:HA	1:C:2385:ARG:CZ	2.48	0.43
1:C:2634:ASN:OD1	1:C:2637:ALA:N	2.51	0.43
1:C:2920:ARG:O	1:C:2924:GLN:HG2	2.19	0.43
1:C:3320:LEU:CD1	1:C:3353:LEU:HD21	2.48	0.43
1:C:3329:ILE:O	1:C:3403:ARG:NH2	2.51	0.43
1:C:3433:GLU:HG3	1:C:3437:MET:SD	2.58	0.43
1:C:3640:PRO:O	1:C:3643:ASN:N	2.41	0.43
1:C:4045:VAL:O	1:C:4049:VAL:HG23	2.19	0.43
1:C:4551:PHE:CE2	1:C:4555:LEU:HD11	2.54	0.43
1:A:208:CYS:O	1:A:334:MET:HG3	2.19	0.43
1:A:228:ASP:OD2	1:B:155:LYS:HE2	2.18	0.43
1:A:349:GLN:NE2	1:A:354:GLY:O	2.51	0.43
1:A:950:LEU:HD13	1:A:970:LEU:CD2	2.48	0.43
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.53	0.43
1:A:2177:LEU:HD23	1:A:2177:LEU:C	2.43	0.43
1:A:2459:SER:HB2	1:B:133:PHE:HZ	1.83	0.43
1:A:2549:ALA:CA	1:A:2552:ARG:NH1	2.81	0.43
1:A:3112:LEU:O	1:A:3112:LEU:HG	2.18	0.43
1:A:4798:MET:HE2	1:A:4811:ALA:CB	2.48	0.43
2:E:57:ARG:NH1	2:E:80:TYR:CE1	2.86	0.43
2:E:79:ASP:OD1	2:E:80:TYR:CD2	2.72	0.43
2:F:20:GLN:C	2:F:49:MET:SD	3.02	0.43
1:B:579:GLN:O	1:B:583:ILE:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:870:ILE:HD11	1:B:1049:TYR:CD2	2.53	0.43
1:B:965:TYR:CE2	1:B:967:PRO:HA	2.54	0.43
1:B:1575:LEU:HD23	1:B:1575:LEU:O	2.19	0.43
1:B:2002:PRO:HB2	1:B:3652:MET:HE1	2.00	0.43
1:B:2747:ILE:HG21	1:B:2814:LYS:CG	2.44	0.43
1:B:2926:LEU:O	1:B:2930:LEU:HD13	2.19	0.43
1:B:3015:LEU:HD12	1:B:3025:LEU:C	2.43	0.43
1:B:3329:ILE:O	1:B:3403:ARG:NH2	2.51	0.43
1:B:3540:TYR:OH	1:B:3597:GLN:O	2.37	0.43
1:B:4045:VAL:O	1:B:4049:VAL:HG23	2.19	0.43
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.18	0.43
1:B:4798:MET:HE2	1:B:4811:ALA:CB	2.48	0.43
1:D:28:VAL:O	1:D:29:LEU:HD23	2.18	0.43
1:D:208:CYS:O	1:D:334:MET:HG3	2.19	0.43
1:D:908:VAL:HG23	1:D:909:ASN:N	2.33	0.43
1:D:1206:GLN:N	1:D:1227:ALA:HB3	2.33	0.43
1:D:2170:MET:CE	1:D:2175:GLU:HB2	2.48	0.43
1:D:3283:ARG:HG2	1:D:3287:ARG:NH1	2.32	0.43
1:D:3640:PRO:HB2	1:D:3642:TYR:CE1	2.53	0.43
1:D:3660:ALA:HB3	1:D:3661:TRP:HD1	1.83	0.43
1:D:4061:PHE:CE2	1:D:4065:PHE:HE2	2.37	0.43
1:D:4551:PHE:CE2	1:D:4555:LEU:HD11	2.54	0.43
1:D:4581:LYS:HD2	1:D:4582:VAL:N	2.33	0.43
1:C:208:CYS:O	1:C:334:MET:HG3	2.19	0.43
1:C:246:TYR:CD1	1:C:375:LYS:HA	2.54	0.43
1:C:1930:LYS:C	1:C:1931:LEU:HG	2.43	0.43
1:C:2155:LEU:HD11	1:C:2185:ILE:HG23	2.00	0.43
1:C:3015:LEU:HD12	1:C:3025:LEU:C	2.43	0.43
1:C:3096:PHE:CD2	1:C:3161:VAL:HG12	2.52	0.43
1:C:3640:PRO:HB2	1:C:3642:TYR:CE1	2.53	0.43
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.99	0.43
1:A:516:LYS:O	1:A:519:VAL:HG22	2.18	0.43
1:A:583:ILE:HD12	1:A:583:ILE:H	1.84	0.43
1:A:732:SER:O	1:A:735:GLN:HG3	2.17	0.43
1:A:2203:MET:HE2	1:A:2235:PHE:CZ	2.53	0.43
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.53	0.43
1:A:2214:VAL:HG21	1:A:2228:MET:CE	2.41	0.43
1:A:2244:ARG:O	1:A:2247:GLN:HB3	2.19	0.43
1:A:2574:HIS:CE1	1:A:2575:ARG:HG2	2.54	0.43
1:A:2761:TYR:HD2	1:A:2859:PRO:HD3	1.83	0.43
1:A:2926:LEU:O	1:A:2930:LEU:HD13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:LEU:HD22	1:A:3038:MET:HB3	2.01	0.43
1:A:2988:LYS:HZ1	1:A:2990:PRO:HG3	1.83	0.43
1:A:3306:ALA:O	1:A:3308:THR:HG23	2.18	0.43
1:A:3400:VAL:HG23	1:A:3403:ARG:NH2	2.34	0.43
1:A:3729:MET:HE2	1:A:3770:LEU:HD13	2.01	0.43
1:A:4061:PHE:CE2	1:A:4065:PHE:HE2	2.37	0.43
1:A:4145:VAL:HG13	1:A:4194:TYR:HB2	2.01	0.43
1:A:5036:LEU:O	1:A:5037:SER:CB	2.64	0.43
2:E:32:ASP:OD1	2:E:33:GLY:N	2.52	0.43
2:H:20:GLN:C	2:H:49:MET:SD	3.02	0.43
2:H:79:ASP:OD1	2:H:80:TYR:CD2	2.72	0.43
1:B:2101:MET:HE3	1:B:2105:TRP:CZ3	2.54	0.43
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.39	0.43
1:B:2329:GLU:HG3	1:B:2425:PHE:HA	2.01	0.43
1:B:2872:GLN:O	1:B:2873:ALA:C	2.61	0.43
1:B:2920:ARG:O	1:B:2924:GLN:HG2	2.19	0.43
1:B:3159:ASP:O	1:B:3163:VAL:HG23	2.19	0.43
1:D:231:LEU:CD1	1:D:245:VAL:HG12	2.48	0.43
1:D:363:ASP:C	1:D:363:ASP:OD1	2.61	0.43
1:D:545:ASP:OD1	1:D:546:TRP:N	2.52	0.43
1:D:583:ILE:H	1:D:583:ILE:HD12	1.84	0.43
1:D:1715:LEU:HD23	1:D:1720:LEU:HD12	2.01	0.43
1:D:2090:LYS:HZ1	1:D:2092:GLN:CD	2.26	0.43
1:D:2382:GLU:HA	1:D:2385:ARG:CZ	2.48	0.43
1:D:2742:THR:HG22	1:D:2742:THR:O	2.19	0.43
1:D:3346:VAL:HG11	1:D:3414:ARG:CB	2.49	0.43
1:D:3456:GLN:CD	1:D:3499:ARG:NH2	2.77	0.43
1:D:3540:TYR:OH	1:D:3597:GLN:O	2.37	0.43
1:D:3969:ILE:HD11	1:D:4029:SER:HB2	1.99	0.43
1:D:4000:MET:HE3	1:D:4017:LEU:HD21	1.99	0.43
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	2.00	0.43
1:D:4674:GLU:OE2	1:D:4775:TYR:OH	2.30	0.43
1:D:4798:MET:HE2	1:D:4811:ALA:CB	2.48	0.43
1:C:545:ASP:OD1	1:C:546:TRP:N	2.52	0.43
1:C:647:ASN:ND2	1:C:820:ARG:O	2.52	0.43
1:C:950:LEU:HD21	1:C:1048:GLY:O	2.18	0.43
1:C:1791:VAL:O	1:C:1792:ALA:HB3	2.18	0.43
1:C:2313:LEU:HD11	1:C:2416:VAL:HB	2.00	0.43
1:C:2701:PRO:O	1:C:2704:CYS:N	2.51	0.43
1:C:2858:GLN:N	1:C:2859:PRO:CD	2.81	0.43
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4000:MET:HE3	1:C:4017:LEU:HD21	1.99	0.43
1:C:4978:HIS:O	1:C:4983:HIS:N	2.50	0.43
1:A:898:ASP:HB2	1:A:901:LYS:HG2	2.01	0.43
1:A:965:TYR:CE2	1:A:967:PRO:HA	2.54	0.43
1:A:1715:LEU:HD23	1:A:1720:LEU:HD12	2.01	0.43
1:A:1791:VAL:O	1:A:1792:ALA:HB3	2.18	0.43
1:A:1931:LEU:HD12	1:A:1939:MET:CE	2.46	0.43
1:A:2382:GLU:HA	1:A:2385:ARG:CZ	2.48	0.43
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.83	0.43
1:A:2775:TRP:CH2	1:A:2786:LYS:HE2	2.53	0.43
1:A:2859:PRO:HB3	1:A:2932:MET:HE1	2.01	0.43
1:A:3015:LEU:HD12	1:A:3025:LEU:C	2.43	0.43
1:A:3036:LYS:HA	1:A:3039:ILE:HG22	2.01	0.43
1:A:3283:ARG:HG2	1:A:3287:ARG:NH1	2.32	0.43
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.34	0.43
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.18	0.43
1:A:4834:GLY:O	1:A:4838:VAL:HG23	2.18	0.43
2:G:20:GLN:C	2:G:49:MET:SD	3.02	0.43
1:B:768:PHE:CE1	1:B:1474:VAL:HG22	2.52	0.43
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.53	0.43
1:B:1515:VAL:O	1:B:1515:VAL:HG13	2.19	0.43
1:B:2313:LEU:HD11	1:B:2416:VAL:HB	2.00	0.43
1:B:2314:LEU:HD21	1:B:2320:ASP:HA	2.00	0.43
1:B:3101:GLU:HA	1:B:3104:GLU:OE1	2.19	0.43
1:B:3249:LEU:HD21	1:B:3273:THR:HG22	2.01	0.43
1:B:3261:ALA:C	1:B:3266:MET:HE1	2.43	0.43
1:B:4911:LEU:O	1:B:4915:VAL:HG23	2.19	0.43
1:D:510:GLU:HG2	1:D:511:ALA:N	2.34	0.43
1:D:987:ARG:O	1:D:990:GLU:HB3	2.19	0.43
1:D:1079:LYS:HA	1:D:1189:LEU:HD11	1.99	0.43
1:D:1575:LEU:O	1:D:1575:LEU:HD23	2.19	0.43
1:D:1791:VAL:O	1:D:1792:ALA:HB3	2.18	0.43
1:D:2101:MET:HE3	1:D:2105:TRP:CZ3	2.54	0.43
1:D:2155:LEU:HD11	1:D:2185:ILE:HG23	2.00	0.43
1:D:2249:SER:O	1:D:2253:HIS:ND1	2.52	0.43
1:D:2326:CYS:HA	1:D:2329:GLU:OE1	2.19	0.43
1:D:2761:TYR:HD2	1:D:2859:PRO:HD3	1.83	0.43
1:D:4943:LEU:O	1:D:4947:GLN:HG2	2.18	0.43
1:C:28:VAL:O	1:C:29:LEU:HD23	2.18	0.43
1:C:875:ALA:HB1	1:C:922:LEU:HD22	2.00	0.43
1:C:2872:GLN:O	1:C:2873:ALA:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2926:LEU:O	1:C:2930:LEU:HD13	2.19	0.43
1:C:2970:SER:O	1:C:2974:ILE:HG12	2.18	0.43
1:C:3105:LYS:HE2	1:C:3128:ASN:ND2	2.34	0.43
1:C:3734:HIS:O	1:C:3735:LEU:C	2.62	0.43
1:A:231:LEU:HD13	1:A:247:TYR:HE1	1.81	0.43
1:A:246:TYR:CD1	1:A:375:LYS:HA	2.54	0.43
1:A:545:ASP:OD1	1:A:546:TRP:N	2.52	0.43
1:A:633:LEU:HD13	1:A:1639:LEU:HD11	2.00	0.43
1:A:789:VAL:HG12	1:A:790:ARG:N	2.34	0.43
1:A:950:LEU:HD21	1:A:1048:GLY:O	2.18	0.43
1:A:1515:VAL:HG13	1:A:1515:VAL:O	2.19	0.43
1:A:2090:LYS:HZ1	1:A:2092:GLN:CD	2.26	0.43
1:A:2430:ILE:HG22	1:A:2505:PHE:HB2	2.01	0.43
1:A:2742:THR:O	1:A:2742:THR:HG22	2.19	0.43
1:A:2891:LYS:HA	1:A:2894:LEU:HB2	2.00	0.43
1:A:2991:HIS:O	1:A:2992:GLU:C	2.61	0.43
1:A:3152:PHE:O	1:A:3156:VAL:HG23	2.19	0.43
1:A:3384:LYS:O	1:A:3388:GLU:OE1	2.37	0.43
1:A:3628:ARG:HB3	1:A:3631:ALA:HB3	2.00	0.43
1:A:3640:PRO:HB2	1:A:3642:TYR:CE1	2.53	0.43
1:A:4000:MET:HE3	1:A:4017:LEU:HD21	1.99	0.43
2:E:20:GLN:C	2:E:49:MET:SD	3.02	0.43
2:H:57:ARG:NH1	2:H:80:TYR:CE1	2.86	0.43
2:F:88:PRO:O	2:F:90:ILE:HD12	2.19	0.43
1:B:322:LYS:NZ	1:B:354:GLY:O	2.46	0.43
1:B:414:PHE:CE2	1:B:418:LEU:HD11	2.54	0.43
1:B:421:PHE:CE2	1:B:507:ALA:HA	2.53	0.43
1:B:583:ILE:HD12	1:B:583:ILE:H	1.84	0.43
1:B:699:GLY:HA3	1:B:705:ASN:OD1	2.19	0.43
1:B:909:ASN:HB3	1:B:912:SER:HB2	2.01	0.43
1:B:987:ARG:O	1:B:990:GLU:HB3	2.19	0.43
1:B:1206:GLN:N	1:B:1227:ALA:HB3	2.33	0.43
1:B:1791:VAL:O	1:B:1792:ALA:HB3	2.18	0.43
1:B:1849:LEU:HD22	1:B:1945:TYR:CE2	2.54	0.43
1:B:2249:SER:O	1:B:2253:HIS:ND1	2.52	0.43
1:B:2574:HIS:CE1	1:B:2575:ARG:HG2	2.54	0.43
1:B:2878:LEU:HD21	1:B:2882:TYR:OH	2.19	0.43
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.19	0.43
1:B:3306:ALA:O	1:B:3308:THR:HG23	2.18	0.43
1:B:3433:GLU:HG3	1:B:3437:MET:SD	2.58	0.43
1:D:882:TRP:O	1:D:886:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1123:VAL:HG23	1:D:1132:TRP:HB2	2.01	0.43
1:D:1515:VAL:O	1:D:1515:VAL:HG13	2.19	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.52	0.43
1:D:2254:LEU:O	1:D:2255:SER:C	2.61	0.43
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.19	0.43
1:D:2892:GLN:HA	1:D:2895:GLU:OE1	2.19	0.43
1:D:3101:GLU:HA	1:D:3104:GLU:OE1	2.19	0.43
1:D:3105:LYS:HE2	1:D:3128:ASN:ND2	2.34	0.43
1:D:3386:GLU:O	1:D:3389:GLU:HB3	2.18	0.43
1:C:882:TRP:O	1:C:886:ARG:HG2	2.19	0.43
1:C:987:ARG:O	1:C:990:GLU:HB3	2.19	0.43
1:C:1052:ASN:OD1	1:C:1052:ASN:O	2.37	0.43
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.53	0.43
1:C:1929:MET:O	1:C:1930:LYS:CB	2.66	0.43
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.53	0.43
1:C:2313:LEU:HD12	1:C:2318:TYR:CG	2.54	0.43
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.83	0.43
1:C:2470:ILE:O	1:C:2499:LYS:NZ	2.45	0.43
1:C:3101:GLU:HA	1:C:3104:GLU:OE1	2.19	0.43
1:C:3332:ALA:CB	1:C:3335:MET:HE3	2.49	0.43
1:C:4061:PHE:CE2	1:C:4065:PHE:HE2	2.37	0.43
1:C:4798:MET:HE2	1:C:4811:ALA:CB	2.48	0.43
1:A:510:GLU:HG2	1:A:511:ALA:N	2.34	0.43
1:A:1052:ASN:OD1	1:A:1052:ASN:O	2.37	0.43
1:A:1698:LEU:C	1:A:1814:MET:HE1	2.44	0.43
1:A:2313:LEU:HD12	1:A:2318:TYR:CG	2.54	0.43
1:A:2314:LEU:HD21	1:A:2320:ASP:HA	2.00	0.43
1:A:2326:CYS:HA	1:A:2329:GLU:OE1	2.19	0.43
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.19	0.43
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.17	0.43
1:A:3101:GLU:HA	1:A:3104:GLU:OE1	2.19	0.43
1:A:3157:ILE:HG22	1:A:3162:GLN:HG3	1.98	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HG3	2.01	0.43
1:A:3670:GLU:OE1	1:A:3670:GLU:N	2.51	0.43
1:A:4185:GLY:CA	1:A:4191:GLU:OE1	2.66	0.43
1:A:4911:LEU:O	1:A:4915:VAL:HG23	2.19	0.43
2:G:79:ASP:OD1	2:G:80:TYR:CD2	2.72	0.43
2:F:84:ALA:CA	2:F:94:HIS:CE1	3.02	0.43
1:B:28:VAL:O	1:B:29:LEU:HD23	2.18	0.43
1:B:281:ARG:HG3	1:B:312:THR:HG22	2.00	0.43
1:B:472:ARG:NE	1:B:532:GLY:O	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:789:VAL:HG12	1:B:790:ARG:N	2.34	0.43
1:B:898:ASP:HB2	1:B:901:LYS:HG2	2.01	0.43
1:B:1929:MET:O	1:B:1930:LYS:CB	2.66	0.43
1:B:2203:MET:HE2	1:B:2235:PHE:CZ	2.53	0.43
1:B:2255:SER:O	1:B:2259:GLU:OE1	2.37	0.43
1:B:2430:ILE:HG22	1:B:2505:PHE:HB2	2.01	0.43
1:B:2591:ARG:CZ	1:B:2636:PHE:HB3	2.49	0.43
1:B:2859:PRO:HB3	1:B:2932:MET:CE	2.48	0.43
1:B:2859:PRO:HB3	1:B:2932:MET:HE1	2.01	0.43
1:B:2894:LEU:HG	1:B:2897:LYS:HE3	2.01	0.43
1:B:3157:ILE:HA	1:B:3161:VAL:HG21	2.01	0.43
1:B:3227:ARG:HA	1:B:3230:LEU:HG	1.99	0.43
1:B:3384:LYS:O	1:B:3388:GLU:OE1	2.37	0.43
1:B:3628:ARG:HB3	1:B:3631:ALA:HB3	2.00	0.43
1:B:3640:PRO:HB2	1:B:3642:TYR:CE1	2.53	0.43
1:B:3729:MET:HE2	1:B:3770:LEU:HD13	2.01	0.43
1:B:3731:LYS:HA	1:B:3734:HIS:NE2	2.34	0.43
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.19	0.43
1:B:4833:ASN:ND2	1:B:4935:LEU:O	2.52	0.43
1:D:36:CYS:SG	1:D:65:CYS:HB3	2.58	0.43
1:D:246:TYR:CD1	1:D:375:LYS:HA	2.54	0.43
1:D:414:PHE:CE2	1:D:418:LEU:HD11	2.54	0.43
1:D:579:GLN:O	1:D:583:ILE:HD12	2.19	0.43
1:D:689:THR:HG23	1:D:776:LEU:O	2.19	0.43
1:D:748:LEU:HD11	1:D:771:PHE:HZ	1.84	0.43
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	2.01	0.43
1:D:2167:ILE:HG13	1:D:2168:VAL:N	2.33	0.43
1:D:2244:ARG:O	1:D:2247:GLN:HB3	2.19	0.43
1:D:2255:SER:O	1:D:2259:GLU:OE1	2.37	0.43
1:D:2879:ALA:HB1	1:D:2916:LYS:HZ2	1.83	0.43
1:D:3036:LYS:HA	1:D:3039:ILE:HG22	2.01	0.43
1:D:4820:VAL:HG12	1:D:4822:THR:N	2.33	0.43
1:D:4911:LEU:O	1:D:4915:VAL:HG23	2.19	0.43
1:C:689:THR:HG23	1:C:776:LEU:O	2.19	0.43
1:C:1298:HIS:HE1	1:C:1431:THR:HG23	1.83	0.43
1:C:1931:LEU:HD12	1:C:1939:MET:CE	2.46	0.43
1:C:2249:SER:O	1:C:2253:HIS:ND1	2.52	0.43
1:C:2430:ILE:HG22	1:C:2505:PHE:HB2	2.01	0.43
1:C:2574:HIS:CE1	1:C:2575:ARG:HG2	2.54	0.43
1:C:2591:ARG:CZ	1:C:2636:PHE:HB3	2.49	0.43
1:C:2859:PRO:HB3	1:C:2932:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3199:ALA:O	1:C:3283:ARG:HD2	2.19	0.43
1:C:3219:TYR:HA	1:C:3227:ARG:NH2	2.34	0.43
1:C:3540:TYR:OH	1:C:3597:GLN:O	2.37	0.43
1:C:3842:LEU:HD23	1:C:3842:LEU:HA	1.92	0.43
1:A:231:LEU:CD1	1:A:245:VAL:HG12	2.48	0.43
1:A:689:THR:HG23	1:A:776:LEU:O	2.19	0.43
1:A:1069:TRP:CZ3	1:A:1112:ASP:HB3	2.54	0.43
1:A:1575:LEU:O	1:A:1575:LEU:HD23	2.19	0.43
1:A:1930:LYS:C	1:A:1931:LEU:HG	2.43	0.43
1:A:2101:MET:HE3	1:A:2105:TRP:CZ3	2.54	0.43
1:A:2577:ILE:HG13	1:A:2578:MET:N	2.34	0.43
1:A:3346:VAL:HG11	1:A:3414:ARG:CB	2.49	0.43
1:A:3388:GLU:O	1:A:3391:GLU:HB3	2.19	0.43
1:A:3567:PRO:HA	1:A:3570:ARG:HB3	2.00	0.43
1:A:3941:ASP:OD1	1:A:3941:ASP:N	2.49	0.43
1:B:220:LEU:C	1:B:220:LEU:HD12	2.44	0.43
1:B:510:GLU:HG2	1:B:511:ALA:N	2.34	0.43
1:B:882:TRP:O	1:B:886:ARG:HG2	2.19	0.43
1:B:908:VAL:HG23	1:B:909:ASN:N	2.33	0.43
1:B:1052:ASN:O	1:B:1052:ASN:OD1	2.37	0.43
1:B:1476:MET:O	1:B:1484:HIS:N	2.51	0.43
1:B:1715:LEU:HD23	1:B:1720:LEU:CD1	2.49	0.43
1:B:2265:LEU:HA	1:B:2330:ARG:HD2	2.00	0.43
1:B:2382:GLU:HA	1:B:2385:ARG:CZ	2.48	0.43
1:B:2536:LEU:O	1:B:2538:THR:N	2.48	0.43
1:B:3105:LYS:HE2	1:B:3128:ASN:ND2	2.34	0.43
1:B:3660:ALA:HB3	1:B:3661:TRP:HD1	1.83	0.43
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.34	0.43
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	2.00	0.43
1:B:4242:ILE:HA	1:B:4245:MET:SD	2.59	0.43
1:B:4783:ILE:O	1:B:4786:ASP:OD1	2.36	0.43
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.19	0.43
1:D:1715:LEU:HD23	1:D:1720:LEU:CD1	2.49	0.43
1:D:2430:ILE:HG22	1:D:2505:PHE:HB2	2.01	0.43
1:D:2920:ARG:O	1:D:2924:GLN:HG2	2.19	0.43
1:D:3159:ASP:O	1:D:3163:VAL:HG23	2.19	0.43
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.19	0.43
1:D:3331:GLU:OE2	1:D:3333:THR:HG23	2.19	0.43
1:D:3635:CYS:HA	1:D:3638:MET:HG3	2.01	0.43
1:C:591:ASP:O	1:C:1594:ARG:HD2	2.19	0.43
1:C:781:VAL:HG12	1:C:791:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:ASP:HB2	1:C:901:LYS:HG2	2.01	0.43
1:C:1555:LEU:HD23	1:C:1555:LEU:C	2.44	0.43
1:C:1849:LEU:HD22	1:C:1945:TYR:CE2	2.54	0.43
1:C:2326:CYS:HA	1:C:2329:GLU:OE1	2.19	0.43
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.19	0.43
1:C:2742:THR:O	1:C:2742:THR:HG22	2.19	0.43
1:C:3152:PHE:O	1:C:3156:VAL:HG23	2.19	0.43
1:C:3346:VAL:HG11	1:C:3414:ARG:CB	2.49	0.43
1:C:3731:LYS:HA	1:C:3734:HIS:NE2	2.34	0.43
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.19	0.43
1:A:426:ARG:HD2	1:A:506:TYR:O	2.19	0.42
1:A:472:ARG:NE	1:A:532:GLY:O	2.48	0.42
1:A:591:ASP:O	1:A:1594:ARG:HD2	2.19	0.42
1:A:748:LEU:HD11	1:A:771:PHE:HZ	1.84	0.42
1:A:925:SER:O	1:A:928:THR:OG1	2.35	0.42
1:A:987:ARG:O	1:A:990:GLU:HB3	2.19	0.42
1:A:1123:VAL:HG23	1:A:1132:TRP:HB2	2.01	0.42
1:A:2002:PRO:HB2	1:A:3652:MET:HE1	2.00	0.42
1:A:2325:PRO:O	1:A:2326:CYS:C	2.62	0.42
1:A:2894:LEU:HG	1:A:2897:LYS:HE3	2.01	0.42
1:A:3157:ILE:HA	1:A:3161:VAL:HG21	2.01	0.42
1:A:3456:GLN:CD	1:A:3499:ARG:NH2	2.77	0.42
1:A:3473:ASP:O	1:A:3477:LYS:HG2	2.19	0.42
1:A:3648:ARG:O	1:A:3652:MET:HG3	2.19	0.42
1:A:4833:ASN:ND2	1:A:4935:LEU:O	2.52	0.42
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.19	0.42
2:G:32:ASP:OD1	2:G:33:GLY:N	2.52	0.42
1:B:1123:VAL:HG23	1:B:1132:TRP:HB2	2.01	0.42
1:B:1286:MET:CE	1:B:1555:LEU:HD12	2.46	0.42
1:B:1715:LEU:HD23	1:B:1720:LEU:HD12	2.01	0.42
1:B:2161:GLN:O	1:B:2165:LEU:HD13	2.17	0.42
1:B:2233:CYS:SG	1:B:2274:ASP:OD1	2.77	0.42
1:B:2756:ASN:O	1:B:2760:GLU:HG3	2.19	0.42
1:B:3199:ALA:O	1:B:3283:ARG:HD2	2.18	0.42
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	2.00	0.42
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.53	0.42
1:D:2214:VAL:HG21	1:D:2228:MET:CE	2.41	0.42
1:D:2290:LEU:HD21	1:D:2295:LEU:HG	2.01	0.42
1:D:2313:LEU:HD12	1:D:2318:TYR:CG	2.54	0.42
1:D:3473:ASP:O	1:D:3477:LYS:HG2	2.19	0.42
1:D:4999:ASP:OD1	1:D:5001:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:856:VAL:HG12	1:C:991:ASN:HD21	1.83	0.42
1:C:909:ASN:HB3	1:C:912:SER:HB2	2.01	0.42
1:C:965:TYR:CE2	1:C:967:PRO:HA	2.54	0.42
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.84	0.42
1:C:2878:LEU:HD21	1:C:2882:TYR:OH	2.19	0.42
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.18	0.42
1:A:214:VAL:HG22	1:A:341:TYR:CG	2.54	0.42
1:A:699:GLY:HA3	1:A:705:ASN:OD1	2.19	0.42
1:A:899:ASP:O	1:A:902:ARG:NH2	2.44	0.42
1:A:909:ASN:HB3	1:A:912:SER:HB2	2.01	0.42
1:A:1715:LEU:HD23	1:A:1720:LEU:CD1	2.49	0.42
1:A:1849:LEU:HD22	1:A:1945:TYR:CE2	2.54	0.42
1:A:2414:ASN:O	1:A:2415:ARG:C	2.62	0.42
1:A:2518:LEU:HD21	1:A:2569:PHE:CE2	2.54	0.42
1:A:2591:ARG:CZ	1:A:2636:PHE:HB3	2.49	0.42
1:A:2619:LEU:O	1:A:2620:GLN:C	2.61	0.42
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.19	0.42
1:A:3331:GLU:OE2	1:A:3333:THR:HG23	2.19	0.42
1:A:3386:GLU:O	1:A:3389:GLU:HB3	2.18	0.42
2:H:84:ALA:CA	2:H:94:HIS:CE1	3.02	0.42
1:B:856:VAL:HG12	1:B:991:ASN:HD21	1.83	0.42
1:B:2211:MET:HE3	1:B:2232:CYS:HB2	2.01	0.42
1:B:2326:CYS:HA	1:B:2329:GLU:OE1	2.19	0.42
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.84	0.42
1:B:2672:LEU:HD22	1:B:2710:LEU:HD13	2.00	0.42
1:B:3115:VAL:O	1:B:3116:SER:HB3	2.18	0.42
1:B:3168:THR:O	1:B:3172:ILE:HG12	2.19	0.42
1:B:3528:THR:HB	1:B:3560:GLN:OE1	2.19	0.42
1:B:3648:ARG:O	1:B:3652:MET:HG3	2.19	0.42
1:B:3734:HIS:O	1:B:3735:LEU:C	2.62	0.42
1:B:4767:TRP:CE2	1:B:4771:ILE:HD11	2.54	0.42
1:D:220:LEU:C	1:D:220:LEU:HD12	2.44	0.42
1:D:281:ARG:HG3	1:D:312:THR:HG22	2.00	0.42
1:D:939:VAL:HG23	1:D:1053:ILE:HD13	1.98	0.42
1:D:1052:ASN:OD1	1:D:1052:ASN:O	2.37	0.42
1:D:1422:ASP:OD1	1:D:1571:ASN:N	2.46	0.42
1:D:1983:ALA:HA	1:D:1986:MET:HE1	2.01	0.42
1:D:2619:LEU:O	1:D:2620:GLN:C	2.61	0.42
1:D:2894:LEU:HG	1:D:2897:LYS:HE3	2.01	0.42
1:D:3136:LEU:O	1:D:3140:LEU:HD13	2.20	0.42
1:D:3734:HIS:O	1:D:3735:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4833:ASN:ND2	1:D:4935:LEU:O	2.52	0.42
1:C:231:LEU:CD1	1:C:245:VAL:HG12	2.48	0.42
1:C:421:PHE:CE2	1:C:507:ALA:HA	2.53	0.42
1:C:1069:TRP:CZ3	1:C:1112:ASP:HB3	2.54	0.42
1:C:1575:LEU:O	1:C:1575:LEU:HD23	2.19	0.42
1:C:1698:LEU:C	1:C:1814:MET:HE1	2.44	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:CD1	2.49	0.42
1:C:2167:ILE:HG13	1:C:2168:VAL:N	2.33	0.42
1:C:2214:VAL:HG21	1:C:2228:MET:CE	2.41	0.42
1:C:2265:LEU:HA	1:C:2330:ARG:HD2	2.00	0.42
1:C:2314:LEU:HD21	1:C:2320:ASP:HA	2.01	0.42
1:C:2518:LEU:HD21	1:C:2569:PHE:CE2	2.54	0.42
1:C:2619:LEU:O	1:C:2620:GLN:C	2.61	0.42
1:C:2627:VAL:HG22	1:C:2678:LEU:HB2	2.01	0.42
1:C:2892:GLN:HA	1:C:2895:GLU:OE1	2.18	0.42
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.30	0.42
1:C:3159:ASP:O	1:C:3163:VAL:HG23	2.19	0.42
1:C:3628:ARG:O	1:C:3631:ALA:N	2.42	0.42
1:C:3628:ARG:HB3	1:C:3631:ALA:HB3	2.00	0.42
1:C:3660:ALA:HB3	1:C:3661:TRP:HD1	1.84	0.42
1:A:781:VAL:HG12	1:A:791:PHE:HZ	1.84	0.42
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.52	0.42
1:A:2249:SER:O	1:A:2253:HIS:ND1	2.52	0.42
1:A:2313:LEU:HD11	1:A:2416:VAL:HB	2.00	0.42
1:A:2878:LEU:HD21	1:A:2882:TYR:OH	2.19	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:HD22	1.85	0.42
1:A:3249:LEU:HD21	1:A:3273:THR:HG22	2.01	0.42
1:A:3401:LEU:HD23	1:A:3451:PHE:CE1	2.54	0.42
1:A:3615:SER:O	1:A:3616:LYS:HB3	2.19	0.42
1:A:3988:ALA:O	1:A:3992:PHE:CD2	2.72	0.42
2:H:32:ASP:OD1	2:H:33:GLY:N	2.52	0.42
2:H:88:PRO:O	2:H:90:ILE:HD12	2.19	0.42
2:F:32:ASP:OD1	2:F:33:GLY:N	2.52	0.42
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.54	0.42
1:B:633:LEU:HD13	1:B:1639:LEU:HD11	2.00	0.42
1:B:689:THR:HG23	1:B:776:LEU:O	2.19	0.42
1:B:744:VAL:HG22	1:B:759:ILE:HD13	1.99	0.42
1:B:781:VAL:HG12	1:B:791:PHE:HZ	1.84	0.42
1:B:2518:LEU:HD21	1:B:2569:PHE:CE2	2.54	0.42
1:B:3219:TYR:HA	1:B:3227:ARG:NH2	2.34	0.42
1:B:3346:VAL:HG11	1:B:3414:ARG:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3400:VAL:HG23	1:B:3403:ARG:NH2	2.34	0.42
1:B:3988:ALA:O	1:B:3992:PHE:CD2	2.72	0.42
1:D:591:ASP:O	1:D:1594:ARG:HD2	2.19	0.42
1:D:684:VAL:HG22	1:D:781:VAL:HG23	2.01	0.42
1:D:781:VAL:HG12	1:D:791:PHE:HZ	1.84	0.42
1:D:886:ARG:HD3	1:D:891:TRP:CE3	2.55	0.42
1:D:1708:ARG:NH2	1:D:1837:GLN:O	2.49	0.42
1:D:2314:LEU:HD21	1:D:2320:ASP:HA	2.00	0.42
1:D:2414:ASN:O	1:D:2415:ARG:C	2.62	0.42
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.84	0.42
1:D:2518:LEU:HD21	1:D:2569:PHE:CE2	2.54	0.42
1:D:3249:LEU:HD21	1:D:3273:THR:HG22	2.01	0.42
1:D:3332:ALA:H	1:D:3403:ARG:NH1	2.17	0.42
1:D:3433:GLU:O	1:D:3437:MET:HG3	2.19	0.42
1:D:3615:SER:O	1:D:3616:LYS:HB3	2.20	0.42
1:D:3616:LYS:HA	1:D:3619:VAL:HG22	2.01	0.42
1:D:4747:SER:HA	1:D:4750:ILE:HG12	2.00	0.42
1:C:414:PHE:CE2	1:C:418:LEU:HD11	2.54	0.42
1:C:887:ILE:HG23	1:C:959:TYR:CE2	2.55	0.42
1:C:1024:TYR:O	1:C:1027:LEU:N	2.48	0.42
1:C:2135:LEU:O	1:C:2139:PRO:HD3	2.18	0.42
1:C:2244:ARG:O	1:C:2247:GLN:HB3	2.19	0.42
1:C:2894:LEU:HG	1:C:2897:LYS:HE3	2.01	0.42
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.19	0.42
1:C:3473:ASP:O	1:C:3477:LYS:HG2	2.20	0.42
1:C:4067:LYS:O	1:C:4070:ASP:OD1	2.36	0.42
1:C:4747:SER:HA	1:C:4750:ILE:HG12	2.00	0.42
1:C:4911:LEU:O	1:C:4915:VAL:HG23	2.19	0.42
1:C:4999:ASP:OD1	1:C:5001:THR:N	2.52	0.42
1:A:281:ARG:HG3	1:A:312:THR:HG22	2.00	0.42
1:A:579:GLN:O	1:A:583:ILE:HD12	2.19	0.42
1:A:842:PRO:O	1:A:1196:PRO:HA	2.19	0.42
1:A:1639:LEU:HD23	1:A:1639:LEU:C	2.45	0.42
1:A:2230:THR:HG23	1:A:2270:SER:CB	2.49	0.42
1:A:2255:SER:O	1:A:2259:GLU:OE1	2.37	0.42
1:A:2690:LYS:HD3	1:A:2691:TYR:O	2.20	0.42
1:A:2707:ALA:HB1	1:A:3009:TYR:CD1	2.55	0.42
1:A:2755:ILE:HD13	1:A:2810:LYS:HG3	2.02	0.42
1:A:2920:ARG:O	1:A:2924:GLN:HG2	2.19	0.42
1:A:3168:THR:O	1:A:3172:ILE:HG12	2.19	0.42
1:A:3219:TYR:HA	1:A:3227:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3319:ILE:O	1:A:3323:ILE:HG12	2.19	0.42
1:A:3528:THR:HB	1:A:3560:GLN:OE1	2.19	0.42
1:A:3548:GLU:O	1:A:3551:GLU:HG3	2.19	0.42
1:A:4242:ILE:HA	1:A:4245:MET:SD	2.59	0.42
2:G:85:THR:HG21	1:C:1786:LEU:CD2	2.49	0.42
1:B:214:VAL:HG22	1:B:341:TYR:CG	2.54	0.42
1:B:426:ARG:HD2	1:B:506:TYR:O	2.19	0.42
1:B:545:ASP:OD1	1:B:546:TRP:N	2.52	0.42
1:B:1927:LEU:HD12	1:B:2097:LEU:HD11	2.02	0.42
1:B:2244:ARG:O	1:B:2247:GLN:HB3	2.19	0.42
1:B:2577:ILE:HG13	1:B:2578:MET:N	2.34	0.42
1:B:2619:LEU:O	1:B:2620:GLN:C	2.61	0.42
1:B:2819:TRP:O	1:B:2821:TRP:CG	2.72	0.42
1:B:2960:LEU:HD22	1:B:3038:MET:HB3	2.01	0.42
1:B:3136:LEU:O	1:B:3140:LEU:HD13	2.20	0.42
1:B:4863:TYR:HH	1:B:4886:HIS:HE2	1.66	0.42
1:D:426:ARG:HD2	1:D:506:TYR:O	2.19	0.42
1:D:950:LEU:HD21	1:D:1048:GLY:O	2.18	0.42
1:D:1069:TRP:CZ3	1:D:1112:ASP:HB3	2.54	0.42
1:D:1931:LEU:HD12	1:D:1939:MET:CE	2.46	0.42
1:D:2230:THR:HG23	1:D:2270:SER:CB	2.49	0.42
1:D:2325:PRO:O	1:D:2326:CYS:C	2.62	0.42
1:D:2536:LEU:O	1:D:2538:THR:N	2.48	0.42
1:D:2859:PRO:HB3	1:D:2932:MET:HE1	2.01	0.42
1:D:3168:THR:O	1:D:3172:ILE:HG12	2.19	0.42
1:D:3329:ILE:O	1:D:3403:ARG:NH2	2.51	0.42
1:D:3332:ALA:CB	1:D:3335:MET:HE3	2.49	0.42
1:D:3401:LEU:HD23	1:D:3451:PHE:CE1	2.54	0.42
1:D:3409:TYR:N	1:D:3410:PRO:HD2	2.34	0.42
1:D:4067:LYS:O	1:D:4070:ASP:OD1	2.36	0.42
1:D:4221:VAL:O	1:D:4225:GLY:N	2.51	0.42
1:C:1123:VAL:HG23	1:C:1132:TRP:HB2	2.01	0.42
1:C:1515:VAL:O	1:C:1515:VAL:HG13	2.19	0.42
1:C:1639:LEU:HD23	1:C:1639:LEU:C	2.45	0.42
1:C:1927:LEU:HD12	1:C:2097:LEU:HD11	2.02	0.42
1:C:2775:TRP:CH2	1:C:2786:LYS:HE2	2.53	0.42
1:C:2859:PRO:HB3	1:C:2932:MET:HE1	2.01	0.42
1:C:3319:ILE:O	1:C:3323:ILE:HG12	2.19	0.42
1:C:3332:ALA:H	1:C:3403:ARG:NH1	2.17	0.42
1:C:3456:GLN:CD	1:C:3499:ARG:NH2	2.77	0.42
1:C:4242:ILE:HA	1:C:4245:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4767:TRP:CE2	1:C:4771:ILE:HD11	2.54	0.42
1:A:20:VAL:HG12	1:A:204:PRO:HA	2.01	0.42
1:A:414:PHE:CE2	1:A:418:LEU:HD11	2.54	0.42
1:A:913:LEU:O	1:A:918:ARG:NE	2.53	0.42
1:A:2203:MET:HE2	1:A:2235:PHE:CE1	2.55	0.42
1:A:2872:GLN:O	1:A:2873:ALA:C	2.61	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:ND2	2.34	0.42
1:A:3332:ALA:CB	1:A:3335:MET:HE3	2.49	0.42
1:A:3616:LYS:HA	1:A:3619:VAL:HG22	2.01	0.42
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.19	0.42
1:B:110:ARG:HD2	1:B:115:ARG:HH21	1.85	0.42
1:B:388:LEU:HD23	1:B:388:LEU:H	1.85	0.42
1:B:647:ASN:ND2	1:B:820:ARG:O	2.52	0.42
1:B:842:PRO:O	1:B:1196:PRO:HA	2.20	0.42
1:B:2313:LEU:HD12	1:B:2318:TYR:CG	2.54	0.42
1:B:2347:GLU:OE1	1:B:2347:GLU:N	2.41	0.42
1:B:2414:ASN:O	1:B:2415:ARG:C	2.62	0.42
1:B:2463:LEU:HD21	1:B:2517:PHE:CZ	2.55	0.42
1:B:2892:GLN:HA	1:B:2895:GLU:OE1	2.18	0.42
1:B:2992:GLU:HA	1:B:2995:ILE:HD12	2.02	0.42
1:B:3388:GLU:O	1:B:3391:GLU:HB3	2.19	0.42
1:B:4145:VAL:HG13	1:B:4194:TYR:HB2	2.01	0.42
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.18	0.42
1:D:647:ASN:ND2	1:D:820:ARG:O	2.52	0.42
1:D:1555:LEU:C	1:D:1555:LEU:HD23	2.44	0.42
1:D:2591:ARG:CZ	1:D:2636:PHE:HB3	2.49	0.42
1:D:2690:LYS:HD3	1:D:2691:TYR:O	2.20	0.42
1:D:2707:ALA:HB1	1:D:3009:TYR:CD1	2.55	0.42
1:D:2736:ASP:OD1	1:D:2736:ASP:O	2.37	0.42
1:D:2819:TRP:O	1:D:2821:TRP:CG	2.73	0.42
1:D:2960:LEU:HD22	1:D:3038:MET:HB3	2.01	0.42
1:D:2970:SER:O	1:D:2974:ILE:HG12	2.18	0.42
1:C:110:ARG:HD2	1:C:115:ARG:HH21	1.85	0.42
1:C:400:ALA:O	1:C:404:ILE:HG12	2.20	0.42
1:C:583:ILE:H	1:C:583:ILE:HD12	1.84	0.42
1:C:789:VAL:HG12	1:C:790:ARG:N	2.34	0.42
1:C:886:ARG:HD3	1:C:891:TRP:CE3	2.54	0.42
1:C:942:ALA:HB3	1:C:1050:GLY:O	2.20	0.42
1:C:2203:MET:HE2	1:C:2235:PHE:CE1	2.55	0.42
1:C:2577:ILE:HG13	1:C:2578:MET:N	2.34	0.42
1:C:2819:TRP:O	1:C:2821:TRP:CG	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3136:LEU:O	1:C:3140:LEU:HD13	2.20	0.42
1:C:3157:ILE:HA	1:C:3161:VAL:HG21	2.01	0.42
1:C:3386:GLU:O	1:C:3389:GLU:HB3	2.18	0.42
1:C:3388:GLU:O	1:C:3391:GLU:HB3	2.19	0.42
1:C:3400:VAL:HG23	1:C:3403:ARG:NH2	2.34	0.42
1:C:3988:ALA:O	1:C:3992:PHE:CD2	2.72	0.42
1:C:4010:ILE:O	1:C:4014:LYS:HG3	2.20	0.42
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.19	0.42
1:A:975:VAL:HG12	1:A:976:ARG:N	2.35	0.42
1:A:2167:ILE:HG13	1:A:2168:VAL:N	2.33	0.42
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.84	0.42
1:A:2736:ASP:OD1	1:A:2736:ASP:O	2.37	0.42
1:A:2819:TRP:O	1:A:2821:TRP:CG	2.72	0.42
1:A:3159:ASP:O	1:A:3163:VAL:HG23	2.19	0.42
1:A:3332:ALA:H	1:A:3403:ARG:NH1	2.18	0.42
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	2.00	0.42
1:A:4178:LEU:HD23	1:A:4178:LEU:C	2.45	0.42
2:E:88:PRO:O	2:E:90:ILE:HD12	2.19	0.42
1:B:208:CYS:O	1:B:334:MET:HG3	2.19	0.42
1:B:400:ALA:O	1:B:404:ILE:HG12	2.20	0.42
1:B:748:LEU:HD11	1:B:771:PHE:HZ	1.84	0.42
1:B:1983:ALA:HA	1:B:1986:MET:HE1	2.01	0.42
1:B:2182:ILE:O	1:B:2186:MET:CE	2.67	0.42
1:B:2203:MET:HE2	1:B:2235:PHE:CE1	2.55	0.42
1:B:2214:VAL:HG21	1:B:2228:MET:CE	2.41	0.42
1:B:2742:THR:O	1:B:2742:THR:HG22	2.19	0.42
1:B:3331:GLU:OE2	1:B:3333:THR:HG23	2.19	0.42
1:B:3473:ASP:O	1:B:3477:LYS:HG2	2.20	0.42
1:B:3615:SER:O	1:B:3616:LYS:HB3	2.19	0.42
1:B:4010:ILE:O	1:B:4014:LYS:HG3	2.20	0.42
1:B:4021:LYS:N	1:B:4139:ILE:HD13	2.34	0.42
1:D:699:GLY:HA3	1:D:705:ASN:OD1	2.19	0.42
1:D:887:ILE:HG23	1:D:959:TYR:CE2	2.55	0.42
1:D:898:ASP:HB2	1:D:901:LYS:HG2	2.01	0.42
1:D:965:TYR:CE2	1:D:967:PRO:HA	2.54	0.42
1:D:1153:ILE:CD1	1:D:1155:LEU:HD21	2.47	0.42
1:D:1218:GLY:O	1:D:1222:GLY:N	2.50	0.42
1:D:2313:LEU:HD11	1:D:2416:VAL:HB	2.00	0.42
1:D:2755:ILE:HD13	1:D:2810:LYS:HG3	2.02	0.42
1:D:2824:GLU:OE1	1:D:2824:GLU:N	2.53	0.42
1:D:2878:LEU:HD21	1:D:2882:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3319:ILE:O	1:D:3323:ILE:HG12	2.19	0.42
1:D:3875:MET:CE	1:D:3953:LYS:HG3	2.50	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:HD12	2.01	0.42
1:C:2329:GLU:HG3	1:C:2425:PHE:HA	2.01	0.42
1:C:2514:ASN:OD1	1:C:2514:ASN:N	2.53	0.42
1:C:2960:LEU:HD22	1:C:3038:MET:HB3	2.01	0.42
1:C:3331:GLU:OE2	1:C:3333:THR:HG23	2.19	0.42
1:C:3556:ASN:O	1:C:3559:LEU:N	2.37	0.42
1:C:4021:LYS:N	1:C:4139:ILE:HD13	2.34	0.42
1:A:400:ALA:O	1:A:404:ILE:HG12	2.20	0.42
1:A:647:ASN:ND2	1:A:820:ARG:O	2.52	0.42
1:A:730:VAL:HA	1:A:1476:MET:CE	2.50	0.42
1:A:856:VAL:HG12	1:A:991:ASN:HD21	1.83	0.42
1:A:879:HIS:CE1	1:A:913:LEU:HD13	2.55	0.42
1:A:882:TRP:O	1:A:886:ARG:HG2	2.19	0.42
1:A:887:ILE:HG23	1:A:959:TYR:CE2	2.55	0.42
1:A:2182:ILE:O	1:A:2186:MET:SD	2.78	0.42
1:A:3433:GLU:O	1:A:3437:MET:HG3	2.19	0.42
1:A:4045:VAL:O	1:A:4049:VAL:HG23	2.19	0.42
1:A:4956:THR:O	1:A:4965:SER:N	2.53	0.42
2:G:88:PRO:O	2:G:90:ILE:HD12	2.19	0.42
1:B:730:VAL:HA	1:B:1476:MET:CE	2.50	0.42
1:B:829:TYR:O	1:B:840:VAL:N	2.42	0.42
1:B:879:HIS:CE1	1:B:913:LEU:HD13	2.55	0.42
1:B:887:ILE:HG23	1:B:959:TYR:CE2	2.54	0.42
1:B:906:CYS:SG	1:B:913:LEU:HB2	2.60	0.42
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.52	0.42
1:B:2282:ASP:HA	1:B:2341:VAL:HG13	2.02	0.42
1:B:2824:GLU:N	1:B:2824:GLU:OE1	2.53	0.42
1:B:3105:LYS:HE2	1:B:3128:ASN:HD22	1.84	0.42
1:B:3137:LEU:HG	1:B:3193:CYS:SG	2.60	0.42
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	2.02	0.42
1:D:20:VAL:HG12	1:D:204:PRO:HA	2.01	0.42
1:D:906:CYS:SG	1:D:913:LEU:HB2	2.60	0.42
1:D:2329:GLU:HG3	1:D:2425:PHE:HA	2.01	0.42
1:D:2463:LEU:HD21	1:D:2517:PHE:CZ	2.55	0.42
1:D:2574:HIS:CE1	1:D:2575:ARG:HG2	2.54	0.42
1:D:3219:TYR:HA	1:D:3227:ARG:NH2	2.34	0.42
1:D:3388:GLU:O	1:D:3391:GLU:HB3	2.19	0.42
1:D:4767:TRP:CE2	1:D:4771:ILE:HD11	2.54	0.42
1:D:4864:ASN:O	1:D:4902:GLU:OE2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:LEU:C	1:C:220:LEU:HD12	2.44	0.42
1:C:336:PRO:HA	1:C:337:PRO:HD3	1.89	0.42
1:C:667:MET:HB2	1:C:743:VAL:HG22	2.02	0.42
1:C:2233:CYS:SG	1:C:2274:ASP:OD1	2.77	0.42
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.53	0.42
1:C:3036:LYS:HA	1:C:3039:ILE:HG22	2.01	0.42
1:C:3137:LEU:HG	1:C:3193:CYS:SG	2.60	0.42
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.20	0.42
1:C:3433:GLU:O	1:C:3437:MET:HG3	2.19	0.42
1:C:4651:THR:OG1	1:C:4803:HIS:NE2	2.50	0.42
1:C:4833:ASN:ND2	1:C:4935:LEU:O	2.52	0.42
1:A:220:LEU:HD12	1:A:220:LEU:C	2.44	0.42
1:A:403:MET:HE1	1:A:451:TYR:CD2	2.55	0.42
1:A:1153:ILE:CD1	1:A:1155:LEU:HD21	2.47	0.42
1:A:1701:ALA:HB1	1:A:1830:VAL:HG22	2.02	0.42
1:A:2270:SER:HA	1:A:2274:ASP:OD2	2.20	0.42
1:A:2971:GLN:CD	1:A:3049:LEU:HD13	2.45	0.42
1:A:2992:GLU:HA	1:A:2995:ILE:HD12	2.02	0.42
1:A:3137:LEU:HG	1:A:3193:CYS:SG	2.60	0.42
1:A:3409:TYR:N	1:A:3410:PRO:HD2	2.34	0.42
1:A:3734:HIS:O	1:A:3735:LEU:C	2.62	0.42
1:A:4021:LYS:N	1:A:4139:ILE:HD13	2.34	0.42
1:A:4880:MET:SD	1:D:4578:LEU:O	2.77	0.42
1:B:156:GLN:NE2	1:B:157:ARG:HG2	2.35	0.42
1:B:576:ASN:OD1	1:B:2169:GLN:NE2	2.53	0.42
1:B:684:VAL:HG22	1:B:781:VAL:HG23	2.01	0.42
1:B:1423:ASP:HB3	1:B:1426:ILE:HD12	2.02	0.42
1:B:1705:GLY:HA3	1:B:1836:PHE:CG	2.55	0.42
1:B:2612[A]:ARG:NH1	1:B:2613:TYR:CD2	2.88	0.42
1:B:3152:PHE:O	1:B:3156:VAL:HG23	2.19	0.42
1:B:4687:TYR:CD2	1:B:4706:LEU:HD11	2.55	0.42
1:D:789:VAL:HG12	1:D:790:ARG:N	2.34	0.42
1:D:1701:ALA:HB1	1:D:1830:VAL:HG22	2.02	0.42
1:D:2992:GLU:HA	1:D:2995:ILE:HD12	2.02	0.42
1:D:3384:LYS:NZ	1:D:3386:GLU:HB3	2.35	0.42
1:D:3548:GLU:O	1:D:3551:GLU:HG3	2.19	0.42
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.85	0.42
1:D:4021:LYS:N	1:D:4139:ILE:HD13	2.35	0.42
1:D:4687:TYR:CD2	1:D:4706:LEU:HD11	2.55	0.42
1:C:156:GLN:NE2	1:C:157:ARG:HG2	2.35	0.42
1:C:164:ARG:HB2	1:C:167:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:349:GLN:NE2	1:C:354:GLY:O	2.51	0.42
1:C:684:VAL:HG22	1:C:781:VAL:HG23	2.01	0.42
1:C:699:GLY:HA3	1:C:705:ASN:OD1	2.19	0.42
1:C:906:CYS:SG	1:C:913:LEU:HB2	2.60	0.42
1:C:909:ASN:ND2	1:C:965:TYR:CD2	2.78	0.42
1:C:2101:MET:HE3	1:C:2105:TRP:CZ3	2.54	0.42
1:C:2182:ILE:O	1:C:2186:MET:SD	2.78	0.42
1:C:2414:ASN:O	1:C:2415:ARG:C	2.62	0.42
1:C:2690:LYS:HD3	1:C:2691:TYR:O	2.20	0.42
1:C:2756:ASN:O	1:C:2760:GLU:HG3	2.19	0.42
1:C:2824:GLU:OE1	1:C:2824:GLU:N	2.53	0.42
1:C:2874:MET:O	1:C:2878:LEU:HB2	2.20	0.42
1:C:2992:GLU:HA	1:C:2995:ILE:HD12	2.02	0.42
1:C:3635:CYS:HA	1:C:3638:MET:HG3	2.01	0.42
1:C:4221:VAL:O	1:C:4225:GLY:N	2.51	0.42
1:C:4687:TYR:CD2	1:C:4706:LEU:HD11	2.55	0.42
1:A:156:GLN:NE2	1:A:157:ARG:HG2	2.35	0.42
1:A:886:ARG:HD3	1:A:891:TRP:CE3	2.54	0.42
1:A:1555:LEU:C	1:A:1555:LEU:HD23	2.44	0.42
1:A:2182:ILE:O	1:A:2186:MET:CE	2.67	0.42
1:A:2211:MET:HE3	1:A:2232:CYS:HB2	2.01	0.42
1:A:2463:LEU:HD21	1:A:2517:PHE:CZ	2.55	0.42
1:A:2672:LEU:HD22	1:A:2710:LEU:HD13	2.00	0.42
1:A:2874:MET:O	1:A:2878:LEU:HB2	2.20	0.42
1:A:3540:TYR:OH	1:A:3597:GLN:O	2.37	0.42
1:A:3731:LYS:HA	1:A:3734:HIS:NE2	2.34	0.42
1:A:3842:LEU:HD23	1:A:3842:LEU:HA	1.92	0.42
1:A:4687:TYR:CD2	1:A:4706:LEU:HD11	2.55	0.42
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.32	0.42
2:H:102:GLU:OE2	2:H:104:LEU:CD2	2.68	0.42
1:B:164:ARG:HB2	1:B:167:ASP:OD2	2.20	0.42
1:B:233:ILE:HG22	1:B:284:HIS:HE1	1.85	0.42
1:B:349:GLN:NE2	1:B:354:GLY:O	2.51	0.42
1:B:2254:LEU:O	1:B:2255:SER:C	2.61	0.42
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.20	0.42
1:B:3433:GLU:O	1:B:3437:MET:HG3	2.19	0.42
1:B:4061:PHE:CE2	1:B:4065:PHE:HE2	2.37	0.42
1:D:214:VAL:HG22	1:D:341:TYR:CG	2.54	0.42
1:D:1698:LEU:C	1:D:1814:MET:HE1	2.44	0.42
1:D:2182:ILE:O	1:D:2186:MET:CE	2.67	0.42
1:D:2756:ASN:O	1:D:2760:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	2.02	0.42
1:D:3400:VAL:HG23	1:D:3403:ARG:NH2	2.34	0.42
1:D:3648:ARG:O	1:D:3652:MET:HG3	2.19	0.42
1:D:3853:ALA:O	1:D:3856:LEU:HD12	2.20	0.42
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	2.02	0.42
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.19	0.42
1:C:403:MET:HE1	1:C:451:TYR:CD2	2.55	0.42
1:C:510:GLU:HG2	1:C:511:ALA:N	2.34	0.42
1:C:514:SER:HB2	1:C:518:ILE:HD11	2.02	0.42
1:C:842:PRO:O	1:C:1196:PRO:HA	2.19	0.42
1:C:1126:GLY:O	1:C:1129:GLY:N	2.44	0.42
1:C:1423:ASP:HB3	1:C:1426:ILE:HD12	2.02	0.42
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.53	0.42
1:C:2182:ILE:O	1:C:2186:MET:CE	2.67	0.42
1:C:2211:MET:HE3	1:C:2232:CYS:HB2	2.01	0.42
1:C:2441:HIS:O	1:C:2444:GLN:OE1	2.38	0.42
1:C:3528:THR:HB	1:C:3560:GLN:OE1	2.19	0.42
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	2.02	0.42
1:C:4145:VAL:HG13	1:C:4194:TYR:HB2	2.01	0.42
1:A:388:LEU:HD23	1:A:388:LEU:H	1.85	0.42
1:A:915:GLU:OE2	1:A:918:ARG:NH1	2.53	0.42
1:A:1983:ALA:HA	1:A:1986:MET:HE1	2.01	0.42
1:A:2290:LEU:HD21	1:A:2295:LEU:HG	2.01	0.42
1:A:2329:GLU:HG3	1:A:2425:PHE:HA	2.01	0.42
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.53	0.42
1:A:2575:ARG:HD3	1:A:2578:MET:CE	2.50	0.42
2:G:57:ARG:CZ	2:G:80:TYR:CE1	3.03	0.42
2:G:102:GLU:OE2	2:G:104:LEU:CD2	2.68	0.42
1:B:403:MET:HE1	1:B:451:TYR:CD2	2.55	0.42
1:B:886:ARG:HD3	1:B:891:TRP:CE3	2.55	0.42
1:B:975:VAL:HG12	1:B:976:ARG:N	2.35	0.42
1:B:1698:LEU:C	1:B:1814:MET:HE1	2.44	0.42
1:B:1698:LEU:HD22	1:B:1712:TYR:CE1	2.55	0.42
1:B:2222:GLU:O	1:B:2224:ARG:NH1	2.48	0.42
1:B:2290:LEU:HD21	1:B:2295:LEU:HG	2.01	0.42
1:B:2736:ASP:OD1	1:B:2736:ASP:O	2.37	0.42
1:B:3036:LYS:HA	1:B:3039:ILE:HG22	2.01	0.42
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.20	0.42
1:B:3409:TYR:N	1:B:3410:PRO:HD2	2.34	0.42
1:B:3814:GLN:NE2	1:B:3818:ASP:OD1	2.53	0.42
1:B:4651:THR:HG1	1:B:4799:SER:HG	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4956:THR:O	1:B:4965:SER:N	2.53	0.42
1:D:576:ASN:OD1	1:D:2169:GLN:NE2	2.53	0.42
1:D:1849:LEU:HD22	1:D:1945:TYR:CE2	2.54	0.42
1:D:2270:SER:HA	1:D:2274:ASP:OD2	2.20	0.42
1:D:2816:MET:CE	1:D:2823:ILE:HD12	2.50	0.42
1:D:3384:LYS:O	1:D:3388:GLU:OE1	2.37	0.42
1:D:4010:ILE:O	1:D:4014:LYS:HG3	2.20	0.42
1:D:4178:LEU:HD23	1:D:4178:LEU:C	2.45	0.42
1:D:4242:ILE:HA	1:D:4245:MET:SD	2.59	0.42
1:C:281:ARG:HG3	1:C:312:THR:HG22	2.00	0.42
1:C:388:LEU:HD23	1:C:388:LEU:H	1.85	0.42
1:C:426:ARG:HD2	1:C:506:TYR:O	2.19	0.42
1:C:975:VAL:HG12	1:C:976:ARG:N	2.35	0.42
1:C:2182:ILE:HG13	1:C:2183:GLY:N	2.35	0.42
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.20	0.42
1:C:2612[A]:ARG:NH1	1:C:2613:TYR:CD2	2.88	0.42
1:C:2927:LEU:HD11	1:C:2937:VAL:HG11	2.01	0.42
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	2.02	0.42
1:C:3384:LYS:O	1:C:3388:GLU:OE1	2.37	0.42
1:C:3384:LYS:NZ	1:C:3386:GLU:HB3	2.35	0.42
1:C:3498:ARG:HG3	1:C:3501:ASP:H	1.85	0.42
1:C:3875:MET:CE	1:C:3953:LYS:HG3	2.50	0.42
1:C:4178:LEU:HD23	1:C:4178:LEU:C	2.45	0.42
1:C:4848:VAL:O	1:C:4852:THR:OG1	2.38	0.42
1:A:1102:VAL:HG11	1:A:1149:VAL:CG1	2.47	0.41
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.53	0.41
1:A:2265:LEU:HA	1:A:2330:ARG:HD2	2.00	0.41
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	2.02	0.41
1:A:4767:TRP:CE2	1:A:4771:ILE:HD11	2.54	0.41
1:B:942:ALA:HB3	1:B:1050:GLY:O	2.20	0.41
1:B:1102:VAL:HG11	1:B:1149:VAL:CG1	2.47	0.41
1:B:1555:LEU:HD23	1:B:1555:LEU:C	2.44	0.41
1:B:2088:GLU:OE1	1:B:2088:GLU:N	2.53	0.41
1:B:2325:PRO:O	1:B:2326:CYS:C	2.62	0.41
1:B:2707:ALA:HB1	1:B:3009:TYR:CD1	2.55	0.41
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	2.02	0.41
1:B:3326:ASN:O	1:B:3335:MET:HE1	2.20	0.41
1:B:3456:GLN:CD	1:B:3499:ARG:NH2	2.77	0.41
1:B:3616:LYS:HA	1:B:3619:VAL:HG22	2.01	0.41
1:B:4999:ASP:OD1	1:B:5001:THR:N	2.52	0.41
1:D:400:ALA:O	1:D:404:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:667:MET:HB2	1:D:743:VAL:HG22	2.02	0.41
1:D:975:VAL:HG12	1:D:976:ARG:N	2.35	0.41
1:D:2265:LEU:HA	1:D:2330:ARG:HD2	2.00	0.41
1:D:2874:MET:O	1:D:2878:LEU:HB2	2.20	0.41
1:D:2971:GLN:CD	1:D:3049:LEU:HD13	2.45	0.41
1:D:3137:LEU:HG	1:D:3193:CYS:SG	2.60	0.41
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.20	0.41
1:D:4070:ASP:OD1	1:D:4070:ASP:C	2.63	0.41
1:D:4942:GLU:O	1:D:4946:GLN:HG3	2.20	0.41
1:C:579:GLN:O	1:C:583:ILE:HD12	2.19	0.41
1:C:759:ILE:HG23	1:C:762:CYS:HG	1.85	0.41
1:C:1698:LEU:HD22	1:C:1712:TYR:CE1	2.55	0.41
1:C:2347:GLU:OE1	1:C:2347:GLU:N	2.41	0.41
1:C:2381:GLU:HB3	1:C:2385:ARG:HH12	1.85	0.41
1:C:3168:THR:O	1:C:3172:ILE:HG12	2.19	0.41
1:C:3401:LEU:HD23	1:C:3451:PHE:CE1	2.54	0.41
1:C:3548:GLU:O	1:C:3551:GLU:HG3	2.19	0.41
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.85	0.41
1:C:3814:GLN:NE2	1:C:3818:ASP:OD1	2.53	0.41
1:A:164:ARG:HB2	1:A:167:ASP:OD2	2.20	0.41
1:A:183:SER:N	1:A:190:GLN:O	2.51	0.41
1:A:576:ASN:OD1	1:A:2169:GLN:NE2	2.53	0.41
1:A:684:VAL:HG22	1:A:781:VAL:HG23	2.01	0.41
1:A:710:ASP:OD1	1:A:713:SER:OG	2.36	0.41
1:A:769:GLU:OE1	1:A:769:GLU:N	2.53	0.41
1:A:1286:MET:HG2	1:A:1462:MET:O	2.20	0.41
1:A:2233:CYS:SG	1:A:2274:ASP:OD1	2.77	0.41
1:A:2441:HIS:O	1:A:2444:GLN:OE1	2.38	0.41
1:A:2496:PRO:O	1:A:2553:TYR:CD1	2.74	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CD2	2.89	0.41
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.20	0.41
1:A:3498:ARG:HG3	1:A:3501:ASP:H	1.85	0.41
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.85	0.41
2:G:84:ALA:CA	2:G:94:HIS:CE1	3.02	0.41
1:B:514:SER:HB2	1:B:518:ILE:HD11	2.02	0.41
1:B:2874:MET:O	1:B:2878:LEU:HB2	2.20	0.41
1:B:2971:GLN:CD	1:B:3049:LEU:HD13	2.45	0.41
1:D:403:MET:HE1	1:D:451:TYR:CD2	2.55	0.41
1:D:445:LEU:O	1:D:449:ILE:HG12	2.20	0.41
1:D:769:GLU:OE1	1:D:769:GLU:N	2.53	0.41
1:D:856:VAL:HG12	1:D:991:ASN:HD21	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1716:ILE:O	1:D:1721:GLU:N	2.53	0.41
1:D:2182:ILE:HG13	1:D:2183:GLY:N	2.35	0.41
1:D:2214:VAL:HG11	1:D:2228:MET:CE	2.50	0.41
1:D:2233:CYS:SG	1:D:2274:ASP:OD1	2.77	0.41
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.53	0.41
1:D:2577:ILE:HG13	1:D:2578:MET:N	2.34	0.41
1:D:3157:ILE:HA	1:D:3161:VAL:HG21	2.01	0.41
1:D:3498:ARG:HG3	1:D:3501:ASP:H	1.85	0.41
1:D:3528:THR:HB	1:D:3560:GLN:OE1	2.20	0.41
1:D:3571:TRP:CE2	1:D:3572:GLN:NE2	2.88	0.41
1:D:4673:ARG:NE	1:D:4702:ASP:OD1	2.53	0.41
1:C:214:VAL:HG22	1:C:341:TYR:CG	2.54	0.41
1:C:445:LEU:O	1:C:449:ILE:HG12	2.20	0.41
1:C:769:GLU:N	1:C:769:GLU:OE1	2.53	0.41
1:C:875:ALA:HA	1:C:878:ILE:HG12	2.02	0.41
1:C:1699:GLU:OE2	1:C:1814:MET:HE3	2.20	0.41
1:C:1716:ILE:O	1:C:1721:GLU:N	2.53	0.41
1:C:2023:LEU:O	1:C:2028:ARG:CZ	2.68	0.41
1:C:2325:PRO:O	1:C:2326:CYS:C	2.62	0.41
1:C:2793:PRO:O	1:C:2797:PHE:N	2.45	0.41
1:C:2816:MET:CE	1:C:2823:ILE:HD12	2.50	0.41
1:C:3409:TYR:N	1:C:3410:PRO:HD2	2.34	0.41
1:C:3648:ARG:O	1:C:3652:MET:HG3	2.19	0.41
1:A:56:GLN:HG2	1:A:57:ASN:N	2.36	0.41
1:A:906:CYS:SG	1:A:913:LEU:HB2	2.60	0.41
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	2.02	0.41
1:A:2282:ASP:HA	1:A:2341:VAL:HG13	2.02	0.41
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.20	0.41
1:A:2600:ARG:O	1:A:2604:GLU:HG3	2.21	0.41
1:A:2824:GLU:OE1	1:A:2824:GLU:N	2.53	0.41
1:A:3852:LYS:O	1:A:3856:LEU:CD1	2.69	0.41
1:A:3857:GLY:O	1:A:3866:ILE:HG23	2.21	0.41
1:A:4027:LEU:CD2	1:A:4044:MET:HE2	2.41	0.41
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	2.02	0.41
1:A:4097:MET:HE2	1:A:4097:MET:CA	2.49	0.41
1:B:20:VAL:HG12	1:B:204:PRO:HA	2.01	0.41
1:B:336:PRO:HA	1:B:337:PRO:HD3	1.89	0.41
1:B:913:LEU:O	1:B:918:ARG:NE	2.53	0.41
1:B:915:GLU:OE2	1:B:918:ARG:NH1	2.53	0.41
1:B:2214:VAL:HG11	1:B:2228:MET:CE	2.50	0.41
1:B:2514:ASN:OD1	1:B:2514:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2575:ARG:HD3	1:B:2578:MET:CE	2.50	0.41
1:B:2600:ARG:O	1:B:2604:GLU:HG3	2.21	0.41
1:B:2755:ILE:HD13	1:B:2810:LYS:HG3	2.02	0.41
1:B:3319:ILE:O	1:B:3323:ILE:HG12	2.19	0.41
1:B:3332:ALA:H	1:B:3403:ARG:NH1	2.17	0.41
1:B:3548:GLU:O	1:B:3551:GLU:HG3	2.19	0.41
1:B:3852:LYS:O	1:B:3856:LEU:CD1	2.69	0.41
1:B:3951:PHE:CE2	1:B:3955:MET:SD	3.14	0.41
1:B:4864:ASN:O	1:B:4902:GLU:OE2	2.38	0.41
1:D:155:LYS:HE2	1:C:228:ASP:OD2	2.20	0.41
1:D:283:ARG:HB2	1:D:290:TYR:CE2	2.56	0.41
1:D:414:PHE:O	1:D:418:LEU:HG	2.20	0.41
1:D:1698:LEU:HD22	1:D:1712:TYR:CE1	2.55	0.41
1:D:1699:GLU:OE2	1:D:1814:MET:HE3	2.21	0.41
1:D:2203:MET:HE2	1:D:2235:PHE:CE1	2.55	0.41
1:D:2575:ARG:NH1	1:D:2578:MET:CE	2.84	0.41
1:D:2927:LEU:HD11	1:D:2937:VAL:HG11	2.01	0.41
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.19	0.41
1:D:3988:ALA:O	1:D:3992:PHE:CD2	2.72	0.41
1:D:4145:VAL:HG13	1:D:4194:TYR:HB2	2.01	0.41
1:C:748:LEU:HD11	1:C:771:PHE:HZ	1.84	0.41
1:C:901:LYS:O	1:C:902:ARG:HB2	2.21	0.41
1:C:1472:VAL:HG22	1:C:1473:THR:N	2.36	0.41
1:C:2024:PRO:O	1:C:2027:ILE:HG22	2.21	0.41
1:C:2282:ASP:HA	1:C:2341:VAL:HG13	2.02	0.41
1:C:2290:LEU:HD21	1:C:2295:LEU:HG	2.01	0.41
1:C:2463:LEU:HD21	1:C:2517:PHE:CZ	2.55	0.41
1:C:2575:ARG:NH1	1:C:2578:MET:CE	2.84	0.41
1:C:2736:ASP:OD1	1:C:2736:ASP:O	2.37	0.41
1:C:3616:LYS:HA	1:C:3619:VAL:HG22	2.02	0.41
1:C:3853:ALA:O	1:C:3856:LEU:HD12	2.20	0.41
1:C:4070:ASP:OD1	1:C:4070:ASP:C	2.63	0.41
1:C:4956:THR:O	1:C:4965:SER:N	2.53	0.41
1:A:110:ARG:HD2	1:A:115:ARG:HH21	1.85	0.41
1:A:133:PHE:HZ	1:D:2459:SER:HB2	1.85	0.41
1:A:445:LEU:O	1:A:449:ILE:HG12	2.20	0.41
1:A:901:LYS:O	1:A:902:ARG:HB2	2.21	0.41
1:A:1074:ILE:HD12	1:A:1111:PRO:O	2.20	0.41
1:A:1699:GLU:OE2	1:A:1814:MET:HE3	2.20	0.41
1:A:1927:LEU:HD12	1:A:2097:LEU:HD11	2.02	0.41
1:A:2023:LEU:O	1:A:2028:ARG:CZ	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2182:ILE:HG13	1:A:2183:GLY:N	2.35	0.41
1:A:2612[A]:ARG:NH1	1:A:2613:TYR:CD2	2.88	0.41
1:A:2960:LEU:CD2	1:A:2964:LEU:HD11	2.51	0.41
1:A:3136:LEU:O	1:A:3140:LEU:HD13	2.20	0.41
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	2.01	0.41
1:A:3853:ALA:O	1:A:3856:LEU:HD12	2.20	0.41
2:E:57:ARG:CZ	2:E:80:TYR:CE1	3.03	0.41
2:E:102:GLU:OE2	2:E:104:LEU:CD2	2.68	0.41
1:B:1701:ALA:HB1	1:B:1830:VAL:HG22	2.02	0.41
1:B:1972:ASN:OD1	1:B:1976:ARG:NH1	2.54	0.41
1:B:2212:VAL:HA	1:B:2215:LEU:HD12	2.03	0.41
1:B:2441:HIS:O	1:B:2444:GLN:OE1	2.38	0.41
1:B:2690:LYS:HD3	1:B:2691:TYR:O	2.20	0.41
1:B:2986:VAL:O	1:B:2986:VAL:HG13	2.20	0.41
1:B:3384:LYS:NZ	1:B:3386:GLU:HB3	2.35	0.41
1:B:3571:TRP:CE2	1:B:3572:GLN:NE2	2.89	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	2.02	0.41
1:B:3635:CYS:HA	1:B:3638:MET:HG3	2.01	0.41
1:D:388:LEU:HD23	1:D:388:LEU:H	1.85	0.41
1:D:759:ILE:HG23	1:D:762:CYS:HG	1.86	0.41
1:D:875:ALA:HB1	1:D:922:LEU:HD22	2.00	0.41
1:D:879:HIS:CE1	1:D:913:LEU:HD13	2.55	0.41
1:D:1931:LEU:HD13	1:D:1935:VAL:HG11	2.02	0.41
1:D:2023:LEU:O	1:D:2028:ARG:CZ	2.68	0.41
1:D:2024:PRO:O	1:D:2027:ILE:HG22	2.20	0.41
1:D:2211:MET:HE3	1:D:2232:CYS:HB2	2.01	0.41
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.20	0.41
1:D:2496:PRO:O	1:D:2553:TYR:CD1	2.74	0.41
1:D:3731:LYS:HA	1:D:3734:HIS:NE2	2.34	0.41
1:C:233:ILE:HG22	1:C:284:HIS:HE1	1.85	0.41
1:C:576:ASN:OD1	1:C:2169:GLN:NE2	2.53	0.41
1:C:1701:ALA:HB1	1:C:1830:VAL:HG22	2.02	0.41
1:C:2318:TYR:CG	1:C:2395:PRO:HD3	2.56	0.41
1:C:2538:THR:C	1:C:2542:SER:HG	2.26	0.41
1:C:2707:ALA:HB1	1:C:3009:TYR:CD1	2.55	0.41
1:C:2755:ILE:HD13	1:C:2810:LYS:HG3	2.02	0.41
1:C:3951:PHE:CE2	1:C:3955:MET:SD	3.14	0.41
1:A:70:GLU:OE2	1:A:110:ARG:HB3	2.21	0.41
1:A:233:ILE:HG22	1:A:284:HIS:HE1	1.85	0.41
1:A:942:ALA:HB3	1:A:1050:GLY:O	2.20	0.41
1:A:1423:ASP:HB3	1:A:1426:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1741:GLU:O	1:A:1745:ILE:HG13	2.21	0.41
1:A:2347:GLU:OE1	1:A:2347:GLU:N	2.41	0.41
1:A:2627:VAL:HG22	1:A:2678:LEU:HB2	2.01	0.41
1:A:3354:LEU:HD12	1:A:3415:TYR:CD2	2.56	0.41
1:A:3951:PHE:CE2	1:A:3955:MET:SD	3.14	0.41
1:A:4010:ILE:O	1:A:4014:LYS:HG3	2.20	0.41
1:A:4649:LEU:O	1:A:4653:VAL:HG23	2.21	0.41
1:A:4942:GLU:O	1:A:4946:GLN:HG3	2.20	0.41
1:A:4978:HIS:CE1	1:A:4983:HIS:CE1	3.09	0.41
1:B:228:ASP:OD2	1:C:155:LYS:HE2	2.20	0.41
1:B:445:LEU:O	1:B:449:ILE:HG12	2.20	0.41
1:B:591:ASP:O	1:B:1594:ARG:HD2	2.19	0.41
1:B:759:ILE:HG23	1:B:762:CYS:HG	1.85	0.41
1:B:839:LEU:N	1:B:839:LEU:HD12	2.36	0.41
1:B:901:LYS:O	1:B:902:ARG:HB2	2.21	0.41
1:B:2024:PRO:O	1:B:2027:ILE:HG22	2.20	0.41
1:B:2496:PRO:O	1:B:2553:TYR:CD1	2.74	0.41
1:B:2612[B]:ARG:NH2	1:B:2613:TYR:CD2	2.88	0.41
1:B:3006:ILE:HG23	1:B:3010:PHE:CE2	2.56	0.41
1:B:3144:PHE:HB2	1:B:3196:ARG:HB3	2.03	0.41
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	2.02	0.41
1:B:3384:LYS:O	1:B:3387:ALA:HB3	2.21	0.41
1:B:3401:LEU:HD23	1:B:3451:PHE:CE1	2.54	0.41
1:B:4097:MET:HE2	1:B:4097:MET:CA	2.49	0.41
1:D:110:ARG:HD2	1:D:115:ARG:HH21	1.85	0.41
1:D:514:SER:HB2	1:D:518:ILE:HD11	2.02	0.41
1:D:601:ASP:HA	1:D:1668:ARG:HH22	1.86	0.41
1:D:842:PRO:O	1:D:1196:PRO:HA	2.19	0.41
1:D:1245:PHE:CE2	1:D:1600:LEU:HD13	2.56	0.41
1:D:1480:GLN:O	1:D:1481:GLY:C	2.64	0.41
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.53	0.41
1:D:2328:GLY:O	1:D:2332:LEU:HG	2.21	0.41
1:D:2627:VAL:HG22	1:D:2678:LEU:HB2	2.01	0.41
1:D:3222:LYS:HB3	1:D:3226:GLU:CG	2.51	0.41
1:D:3814:GLN:NE2	1:D:3818:ASP:OD1	2.53	0.41
1:D:4930:ALA:CB	1:C:4933:GLN:HG3	2.50	0.41
1:C:688:LEU:HD12	1:C:776:LEU:O	2.21	0.41
1:C:839:LEU:HD12	1:C:839:LEU:N	2.36	0.41
1:C:879:HIS:CE1	1:C:913:LEU:HD13	2.55	0.41
1:C:991:ASN:O	1:C:995:VAL:HG23	2.21	0.41
1:C:1705:GLY:HA3	1:C:1836:PHE:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2821:TRP:CD1	1:C:2939:ARG:C	2.99	0.41
1:C:2986:VAL:O	1:C:2986:VAL:HG13	2.20	0.41
1:C:3326:ASN:O	1:C:3335:MET:HE1	2.20	0.41
1:C:3615:SER:O	1:C:3616:LYS:HB3	2.20	0.41
1:C:3809:ASN:HD22	1:C:3812:VAL:HG23	1.85	0.41
1:A:262:LEU:HB3	1:A:280:LEU:HD11	2.03	0.41
1:A:514:SER:HB2	1:A:518:ILE:HD11	2.02	0.41
1:A:1289:LEU:HA	1:A:1598:GLN:O	2.21	0.41
1:A:2024:PRO:O	1:A:2027:ILE:HG22	2.21	0.41
1:A:2440:MET:HB2	1:A:2440:MET:HE2	1.89	0.41
1:A:2756:ASN:O	1:A:2760:GLU:HG3	2.19	0.41
1:A:2908:TYR:CB	1:A:2916:LYS:HE2	2.51	0.41
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.41
1:A:4827:LEU:HD23	1:A:4831:THR:HG23	2.02	0.41
1:A:4859:PHE:HE1	1:A:4909:TYR:HB3	1.86	0.41
1:B:276:TRP:O	1:B:328:LYS:NZ	2.51	0.41
1:B:769:GLU:OE1	1:B:769:GLU:N	2.53	0.41
1:B:1069:TRP:CZ3	1:B:1112:ASP:HB3	2.54	0.41
1:B:1286:MET:HG2	1:B:1462:MET:O	2.20	0.41
1:B:1451:GLY:HA3	1:B:1494:MET:HA	2.03	0.41
1:B:1639:LEU:HD23	1:B:1639:LEU:C	2.45	0.41
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.21	0.41
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.53	0.41
1:B:3857:GLY:O	1:B:3866:ILE:HG23	2.21	0.41
1:B:4178:LEU:HD23	1:B:4178:LEU:C	2.45	0.41
1:B:4993:MET:HA	1:B:4996:ILE:HD12	2.03	0.41
1:D:56:GLN:HG2	1:D:57:ASN:N	2.36	0.41
1:D:164:ARG:HB2	1:D:167:ASP:OD2	2.20	0.41
1:D:368:ARG:CZ	1:D:2307:LEU:HB3	2.51	0.41
1:D:991:ASN:O	1:D:995:VAL:HG23	2.21	0.41
1:D:1286:MET:HG2	1:D:1462:MET:O	2.20	0.41
1:D:1423:ASP:HB3	1:D:1426:ILE:HD12	2.02	0.41
1:D:1472:VAL:HG22	1:D:1473:THR:N	2.36	0.41
1:D:2212:VAL:HA	1:D:2215:LEU:HD12	2.03	0.41
1:D:2612[A]:ARG:NH1	1:D:2613:TYR:CD2	2.88	0.41
1:D:2960:LEU:CD2	1:D:2964:LEU:HD11	2.51	0.41
1:D:3144:PHE:HB2	1:D:3196:ARG:HB3	2.03	0.41
1:D:3852:LYS:O	1:D:3856:LEU:CD1	2.69	0.41
1:D:4827:LEU:HD23	1:D:4831:THR:HG23	2.02	0.41
1:D:4956:THR:O	1:D:4965:SER:N	2.53	0.41
1:C:1164:LEU:HB2	1:C:1169:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2102:VAL:HG22	1:C:2120:MET:HB2	2.02	0.41
1:C:2781:VAL:HG13	1:C:2781:VAL:O	2.21	0.41
1:C:3006:ILE:HG23	1:C:3010:PHE:CE2	2.56	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:H	1.86	0.41
1:C:3857:GLY:O	1:C:3866:ILE:HG23	2.21	0.41
1:A:414:PHE:O	1:A:418:LEU:HG	2.20	0.41
1:A:839:LEU:HD12	1:A:839:LEU:N	2.36	0.41
1:A:945:LYS:HD2	1:A:946:ALA:N	2.36	0.41
1:A:979:PRO:O	1:A:983:THR:HG23	2.21	0.41
1:A:1705:GLY:HA3	1:A:1836:PHE:CG	2.55	0.41
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	2.03	0.41
1:A:2212:VAL:HA	1:A:2215:LEU:HD12	2.03	0.41
1:A:2816:MET:CE	1:A:2823:ILE:HD12	2.50	0.41
1:A:3590:GLU:HG2	1:A:3591:LYS:N	2.36	0.41
2:F:102:GLU:OE2	2:F:104:LEU:CD2	2.68	0.41
1:B:296:ASP:OD1	1:B:297:GLN:N	2.54	0.41
1:B:911:HIS:O	1:B:918:ARG:NH2	2.54	0.41
1:B:1573:MET:CE	1:B:1577:ALA:HB2	2.50	0.41
1:B:1716:ILE:O	1:B:1721:GLU:N	2.53	0.41
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.21	0.41
1:B:2023:LEU:O	1:B:2028:ARG:CZ	2.68	0.41
1:B:2381:GLU:HB3	1:B:2385:ARG:HH12	1.85	0.41
1:B:2781:VAL:O	1:B:2781:VAL:HG13	2.21	0.41
1:B:2960:LEU:CD2	1:B:2964:LEU:HD11	2.51	0.41
1:B:3628:ARG:O	1:B:3631:ALA:N	2.42	0.41
1:B:4673:ARG:NE	1:B:4702:ASP:OD1	2.53	0.41
1:B:4855:ALA:HA	1:B:4859:PHE:HB2	2.03	0.41
1:D:502:HIS:HA	1:D:505:GLU:OE1	2.21	0.41
1:D:688:LEU:HD12	1:D:776:LEU:O	2.20	0.41
1:D:730:VAL:HA	1:D:1476:MET:CE	2.50	0.41
1:D:915:GLU:OE2	1:D:918:ARG:NH1	2.53	0.41
1:D:1639:LEU:HD23	1:D:1639:LEU:C	2.45	0.41
1:D:1927:LEU:HD12	1:D:2097:LEU:HD11	2.02	0.41
1:D:2195:PRO:HA	1:D:2198:MET:HE2	2.03	0.41
1:D:2907:PRO:O	1:D:2910:THR:OG1	2.30	0.41
1:D:3211:ASN:OD1	1:D:3217:SER:OG	2.36	0.41
1:D:3326:ASN:O	1:D:3335:MET:HE1	2.20	0.41
1:D:3354:LEU:HD12	1:D:3415:TYR:CD2	2.56	0.41
1:D:3359:ILE:HB	1:D:3360:PRO:HD3	2.03	0.41
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	2.03	0.41
1:D:3857:GLY:O	1:D:3866:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4978:HIS:CE1	1:D:4983:HIS:CE1	3.09	0.41
1:C:125:ARG:NH1	1:C:134:ASP:HA	2.36	0.41
1:C:283:ARG:HB2	1:C:290:TYR:CE2	2.56	0.41
1:C:710:ASP:OD1	1:C:713:SER:OG	2.36	0.41
1:C:730:VAL:HA	1:C:1476:MET:CE	2.50	0.41
1:C:904:HIS:CD2	1:C:906:CYS:HB3	2.56	0.41
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.21	0.41
1:C:2270:SER:HA	1:C:2274:ASP:OD2	2.20	0.41
1:C:2612[B]:ARG:NH2	1:C:2613:TYR:CD2	2.89	0.41
1:C:2960:LEU:CD2	1:C:2964:LEU:HD11	2.51	0.41
1:C:3536:ALA:O	1:C:3540:TYR:CD2	2.74	0.41
1:C:3852:LYS:O	1:C:3856:LEU:CD1	2.69	0.41
1:A:688:LEU:HD12	1:A:776:LEU:O	2.21	0.41
1:A:1104:TRP:CZ2	1:A:1153:ILE:HG22	2.56	0.41
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.21	0.41
1:A:1716:ILE:O	1:A:1721:GLU:N	2.53	0.41
1:A:2328:GLY:O	1:A:2332:LEU:HG	2.20	0.41
1:A:2381:GLU:CB	1:A:2385:ARG:NH1	2.84	0.41
1:A:2575:ARG:NH1	1:A:2578:MET:CE	2.84	0.41
1:B:502:HIS:HA	1:B:505:GLU:OE1	2.21	0.41
1:B:1931:LEU:HD12	1:B:1939:MET:CE	2.46	0.41
1:B:2138:LEU:HB2	1:B:3658:LYS:HE2	2.03	0.41
1:B:2182:ILE:O	1:B:2186:MET:SD	2.78	0.41
1:B:2230:THR:HG23	1:B:2270:SER:CB	2.49	0.41
1:B:2611:CYS:SG	1:B:2643:LEU:HD11	2.61	0.41
1:B:2627:VAL:HG22	1:B:2678:LEU:HB2	2.01	0.41
1:B:2684:ASP:OD1	1:B:2684:ASP:C	2.63	0.41
1:B:2821:TRP:CD1	1:B:2939:ARG:C	2.99	0.41
1:B:3354:LEU:HD12	1:B:3415:TYR:CD2	2.56	0.41
1:B:3590:GLU:HG2	1:B:3591:LYS:N	2.36	0.41
1:B:3853:ALA:O	1:B:3856:LEU:HD12	2.20	0.41
1:B:3856:LEU:HD12	1:B:3856:LEU:H	1.86	0.41
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.20	0.41
1:D:156:GLN:NE2	1:D:157:ARG:HG2	2.35	0.41
1:D:904:HIS:CD2	1:D:906:CYS:HB3	2.56	0.41
1:D:909:ASN:ND2	1:D:965:TYR:CD2	2.78	0.41
1:D:942:ALA:HB3	1:D:1050:GLY:O	2.20	0.41
1:D:979:PRO:O	1:D:983:THR:HG23	2.21	0.41
1:D:2182:ILE:O	1:D:2186:MET:SD	2.78	0.41
1:D:2282:ASP:HA	1:D:2341:VAL:HG13	2.02	0.41
1:D:2611:CYS:SG	1:D:2643:LEU:HD11	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2821:TRP:CD1	1:D:2939:ARG:C	2.99	0.41
1:D:3384:LYS:O	1:D:3387:ALA:HB3	2.21	0.41
1:D:4105:GLY:O	1:D:4109:GLN:HG2	2.21	0.41
1:D:4586:PRO:HG3	1:D:4629:TYR:CE1	2.56	0.41
1:C:56:GLN:HG2	1:C:57:ASN:N	2.36	0.41
1:C:269:TRP:CE3	1:C:334:MET:CE	3.04	0.41
1:C:345:LEU:HD21	1:C:389:PHE:CE2	2.56	0.41
1:C:1983:ALA:HA	1:C:1986:MET:HE1	2.01	0.41
1:C:2029:GLN:HA	1:C:2032:GLN:OE1	2.21	0.41
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.21	0.41
1:C:2138:LEU:HB2	1:C:3658:LYS:HE2	2.03	0.41
1:C:2575:ARG:HD3	1:C:2578:MET:CE	2.50	0.41
1:C:2806:ARG:HH11	1:C:2810:LYS:HE2	1.86	0.41
1:C:3144:PHE:HB2	1:C:3196:ARG:HB3	2.03	0.41
1:C:3384:LYS:O	1:C:3387:ALA:HB3	2.21	0.41
1:C:4674:GLU:OE2	1:C:4775:TYR:OH	2.30	0.41
1:A:236:ALA:N	1:A:242:ARG:NH2	2.69	0.41
1:A:368:ARG:CZ	1:A:2307:LEU:HB3	2.51	0.41
1:A:614:VAL:HG22	1:A:2169:GLN:CD	2.46	0.41
1:A:759:ILE:HG23	1:A:762:CYS:HG	1.86	0.41
1:A:911:HIS:O	1:A:918:ARG:NH2	2.54	0.41
1:A:1171:SER:OG	1:A:1175:SER:OG	2.37	0.41
1:A:1207:ASP:O	1:A:1210:SER:OG	2.24	0.41
1:A:1573:MET:CE	1:A:1577:ALA:HB2	2.50	0.41
1:A:2195:PRO:HA	1:A:2198:MET:HE2	2.03	0.41
1:A:2223:ILE:O	1:A:2223:ILE:CG2	2.69	0.41
1:A:2514:ASN:OD1	1:A:2514:ASN:N	2.53	0.41
1:A:2538:THR:O	1:A:2542:SER:OG	2.31	0.41
1:A:2611:CYS:SG	1:A:2643:LEU:HD11	2.61	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:N	2.69	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CG	2.87	0.41
1:A:2768:PHE:HB2	1:A:2857:PRO:CG	2.50	0.41
1:A:2781:VAL:O	1:A:2781:VAL:HG13	2.21	0.41
1:A:2821:TRP:CD1	1:A:2939:ARG:C	2.99	0.41
1:A:2908:TYR:CD1	1:A:2911:LEU:HD11	2.56	0.41
1:A:2914:LYS:HG3	1:A:2915:GLU:N	2.36	0.41
1:A:3354:LEU:HB2	1:A:3415:TYR:CZ	2.56	0.41
1:A:3384:LYS:NZ	1:A:3386:GLU:HB3	2.35	0.41
1:A:3432:GLU:OE1	1:A:3524:MET:HE3	2.21	0.41
1:A:3571:TRP:CE2	1:A:3572:GLN:NE2	2.89	0.41
1:A:3809:ASN:HD22	1:A:3812:VAL:HG23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4105:GLY:O	1:A:4109:GLN:HG2	2.21	0.41
2:E:49:MET:CG	2:E:52:LYS:HZ1	2.32	0.41
2:H:49:MET:CG	2:H:52:LYS:NZ	2.84	0.41
2:H:57:ARG:CZ	2:H:80:TYR:CE1	3.03	0.41
1:B:262:LEU:HB3	1:B:280:LEU:HD11	2.03	0.41
1:B:568:LEU:HD12	1:B:602:VAL:HG13	2.03	0.41
1:B:979:PRO:O	1:B:983:THR:HG23	2.21	0.41
1:B:1024:TYR:O	1:B:1027:LEU:HB3	2.21	0.41
1:B:1164:LEU:HB2	1:B:1169:LEU:HD21	2.02	0.41
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.21	0.41
1:B:1289:LEU:HA	1:B:1598:GLN:O	2.21	0.41
1:B:1472:VAL:HG22	1:B:1473:THR:N	2.36	0.41
1:B:2209:GLU:HA	1:B:2212:VAL:HG22	2.03	0.41
1:B:2328:GLY:O	1:B:2332:LEU:HG	2.20	0.41
1:B:2593:ARG:C	1:B:2594:SER:HG	2.20	0.41
1:B:2816:MET:CE	1:B:2823:ILE:HD12	2.50	0.41
1:B:2914:LYS:HG3	1:B:2915:GLU:N	2.36	0.41
1:B:3137:LEU:HD21	1:B:3189:ALA:HB1	2.03	0.41
1:B:3225:ARG:O	1:B:3229:ILE:HD12	2.21	0.41
1:B:3354:LEU:HB2	1:B:3415:TYR:CZ	2.56	0.41
1:B:3536:ALA:O	1:B:3540:TYR:CD2	2.74	0.41
1:B:3875:MET:CE	1:B:3953:LYS:HG3	2.50	0.41
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.21	0.41
1:B:3996:PHE:CD1	1:B:4016:LEU:CD1	3.03	0.41
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.21	0.41
1:B:4820:VAL:HG12	1:B:4822:THR:N	2.33	0.41
1:B:4827:LEU:HD23	1:B:4831:THR:HG23	2.02	0.41
1:B:4933:GLN:HG3	1:C:4930:ALA:CB	2.51	0.41
1:D:233:ILE:HG22	1:D:284:HIS:HE1	1.85	0.41
1:D:236:ALA:N	1:D:242:ARG:NH2	2.69	0.41
1:D:345:LEU:HD21	1:D:389:PHE:CE2	2.56	0.41
1:D:515:TRP:O	1:D:519:VAL:HG13	2.21	0.41
1:D:839:LEU:N	1:D:839:LEU:HD12	2.36	0.41
1:D:875:ALA:HA	1:D:878:ILE:HG12	2.02	0.41
1:D:886:ARG:HB3	1:D:891:TRP:HB2	2.03	0.41
1:D:901:LYS:O	1:D:902:ARG:HB2	2.20	0.41
1:D:985:VAL:O	1:D:1039:LEU:HD23	2.21	0.41
1:D:1104:TRP:CZ2	1:D:1153:ILE:HG22	2.56	0.41
1:D:1153:ILE:HG23	1:D:1153:ILE:O	2.21	0.41
1:D:1636:MET:HE2	1:D:1638:ALA:HB2	2.03	0.41
1:D:2029:GLN:HA	1:D:2032:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2088:GLU:HG3	1:D:2092:GLN:HG2	2.03	0.41
1:D:2318:TYR:CG	1:D:2395:PRO:HD3	2.55	0.41
1:D:2441:HIS:O	1:D:2444:GLN:OE1	2.38	0.41
1:D:2575:ARG:HD3	1:D:2578:MET:CE	2.50	0.41
1:D:2576:ALA:HB1	1:D:2618:MET:HG3	2.03	0.41
1:D:2806:ARG:HH11	1:D:2810:LYS:HE2	1.86	0.41
1:D:2819:TRP:C	1:D:2820:GLU:HG3	2.46	0.41
1:D:2858:GLN:N	1:D:2859:PRO:HD3	2.36	0.41
1:D:2886:TRP:NE1	1:D:2890:LYS:HZ1	2.19	0.41
1:D:2908:TYR:CB	1:D:2916:LYS:HE2	2.51	0.41
1:D:2986:VAL:HG13	1:D:2986:VAL:O	2.20	0.41
1:D:3225:ARG:O	1:D:3229:ILE:HD12	2.21	0.41
1:D:3432:GLU:OE1	1:D:3524:MET:HE3	2.21	0.41
1:D:3692:GLU:OE1	1:D:3694:LYS:HB2	2.21	0.41
1:D:4658:ILE:CD1	1:D:4792:LEU:HB3	2.51	0.41
1:D:4859:PHE:HE1	1:D:4909:TYR:HB3	1.86	0.41
1:D:4985:LEU:HD12	1:D:4985:LEU:C	2.46	0.41
1:C:20:VAL:HG12	1:C:204:PRO:HA	2.01	0.41
1:C:172:VAL:HG13	1:C:178:ARG:N	2.36	0.41
1:C:296:ASP:OD1	1:C:297:GLN:N	2.54	0.41
1:C:601:ASP:HA	1:C:1668:ARG:HH22	1.86	0.41
1:C:1104:TRP:CZ2	1:C:1153:ILE:HG22	2.56	0.41
1:C:1972:ASN:OD1	1:C:1976:ARG:NH1	2.54	0.41
1:C:2088:GLU:HG3	1:C:2092:GLN:HG2	2.03	0.41
1:C:2090:LYS:NZ	1:C:2092:GLN:OE1	2.45	0.41
1:C:2170:MET:HG3	1:C:2225:PHE:CE2	2.56	0.41
1:C:2212:VAL:HA	1:C:2215:LEU:HD12	2.03	0.41
1:C:2214:VAL:HG11	1:C:2228:MET:CE	2.50	0.41
1:C:2222:GLU:O	1:C:2224:ARG:NH1	2.48	0.41
1:C:2496:PRO:O	1:C:2553:TYR:CD1	2.74	0.41
1:C:2600:ARG:O	1:C:2604:GLU:HG3	2.21	0.41
1:C:2630:VAL:N	1:C:2631:PRO:CD	2.84	0.41
1:C:2819:TRP:C	1:C:2820:GLU:HG3	2.46	0.41
1:C:2908:TYR:CD1	1:C:2911:LEU:HD11	2.56	0.41
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	2.01	0.41
1:C:3590:GLU:HG2	1:C:3591:LYS:N	2.36	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:N	2.36	0.41
1:C:4105:GLY:O	1:C:4109:GLN:HG2	2.21	0.41
1:C:4649:LEU:O	1:C:4653:VAL:HG23	2.21	0.41
1:C:4993:MET:HA	1:C:4996:ILE:HD12	2.03	0.41
1:A:283:ARG:HB2	1:A:290:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:LEU:HD21	1:A:389:PHE:CE2	2.56	0.41
1:A:667:MET:HB2	1:A:743:VAL:HG22	2.02	0.41
1:A:1153:ILE:HG23	1:A:1153:ILE:O	2.21	0.41
1:A:1245:PHE:CE2	1:A:1600:LEU:HD13	2.56	0.41
1:A:1454:THR:HB	1:A:1455:PRO:HD2	2.04	0.41
1:A:1698:LEU:HD22	1:A:1712:TYR:CE1	2.55	0.41
1:A:1805:GLU:HG2	1:A:1806:ALA:N	2.36	0.41
1:A:2381:GLU:HB3	1:A:2385:ARG:HH12	1.85	0.41
1:A:2927:LEU:HD11	1:A:2937:VAL:HG11	2.01	0.41
1:A:3006:ILE:HG23	1:A:3010:PHE:CE2	2.56	0.41
1:A:3856:LEU:HD12	1:A:3856:LEU:N	2.36	0.41
1:A:4993:MET:HA	1:A:4996:ILE:HD12	2.03	0.41
2:F:57:ARG:CZ	2:F:80:TYR:CE1	3.03	0.41
1:B:515:TRP:O	1:B:519:VAL:HG13	2.21	0.41
1:B:580:GLU:HA	1:B:583:ILE:HD13	2.03	0.41
1:B:614:VAL:HG22	1:B:2169:GLN:CD	2.46	0.41
1:B:688:LEU:HD12	1:B:776:LEU:O	2.21	0.41
1:B:710:ASP:OD1	1:B:713:SER:OG	2.36	0.41
1:B:2178:MET:SD	1:B:2178:MET:C	3.04	0.41
1:B:2270:SER:HA	1:B:2274:ASP:OD2	2.20	0.41
1:B:2381:GLU:CB	1:B:2385:ARG:NH1	2.84	0.41
1:B:3081:MET:O	1:B:3089:LYS:NZ	2.50	0.41
1:B:3391:GLU:O	1:B:3394:VAL:HG12	2.21	0.41
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.85	0.41
1:B:4859:PHE:HE1	1:B:4909:TYR:HB3	1.86	0.41
1:B:4953:ASP:O	1:B:4957:LYS:HG3	2.21	0.41
1:B:5036:LEU:C	1:B:5037:SER:HG	2.04	0.41
1:D:269:TRP:CE3	1:D:334:MET:CE	3.04	0.41
1:D:349:GLN:NE2	1:D:354:GLY:O	2.51	0.41
1:D:651:GLY:HA3	1:D:776:LEU:HD23	2.03	0.41
1:D:911:HIS:O	1:D:918:ARG:NH2	2.54	0.41
1:D:2440:MET:O	1:D:2444:GLN:OE1	2.39	0.41
1:D:2825:LYS:HA	1:D:2935:TYR:HA	2.03	0.41
1:D:2914:LYS:HG3	1:D:2915:GLU:N	2.36	0.41
1:D:3006:ILE:HG23	1:D:3010:PHE:CE2	2.56	0.41
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	2.02	0.41
1:D:3836:MET:O	1:D:3839:CYS:SG	2.79	0.41
1:D:4978:HIS:O	1:D:4983:HIS:N	2.50	0.41
1:C:502:HIS:HA	1:C:505:GLU:OE1	2.21	0.41
1:C:535:ALA:O	1:C:539:LEU:HG	2.21	0.41
1:C:568:LEU:HD12	1:C:602:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:886:ARG:HB3	1:C:891:TRP:HB2	2.03	0.41
1:C:911:HIS:O	1:C:918:ARG:NH2	2.54	0.41
1:C:1153:ILE:HG23	1:C:1153:ILE:O	2.21	0.41
1:C:1244:GLN:C	1:C:1600:LEU:HD12	2.47	0.41
1:C:1451:GLY:HA3	1:C:1494:MET:HA	2.03	0.41
1:C:1716:ILE:HA	1:C:1720:LEU:HB2	2.03	0.41
1:C:2476:ILE:HD12	1:C:2536:LEU:HD11	2.03	0.41
1:C:3692:GLU:OE1	1:C:3694:LYS:HB2	2.21	0.41
1:A:125:ARG:NH1	1:A:134:ASP:HA	2.36	0.40
1:A:276:TRP:O	1:A:328:LYS:NZ	2.51	0.40
1:A:568:LEU:HD12	1:A:602:VAL:HG13	2.03	0.40
1:A:861:ILE:HD11	1:A:863:LEU:HD11	2.03	0.40
1:A:870:ILE:O	1:A:871:ARG:C	2.64	0.40
1:A:1972:ASN:OD1	1:A:1976:ARG:NH1	2.54	0.40
1:A:2138:LEU:HB2	1:A:3658:LYS:HE2	2.03	0.40
1:A:2576:ALA:HB1	1:A:2618:MET:HG3	2.03	0.40
1:A:2684:ASP:OD1	1:A:2684:ASP:C	2.63	0.40
1:A:2986:VAL:O	1:A:2986:VAL:HG13	2.20	0.40
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.22	0.40
1:A:3222:LYS:HB3	1:A:3226:GLU:CG	2.51	0.40
1:A:3384:LYS:O	1:A:3387:ALA:HB3	2.21	0.40
1:A:3391:GLU:O	1:A:3394:VAL:HG12	2.21	0.40
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	2.03	0.40
1:A:3875:MET:CE	1:A:3953:LYS:HG3	2.50	0.40
1:A:3878:ASP:OD1	1:A:3878:ASP:N	2.54	0.40
1:A:4586:PRO:HG3	1:A:4629:TYR:CE1	2.56	0.40
1:A:4673:ARG:NE	1:A:4702:ASP:OD1	2.53	0.40
1:A:4733:GLY:HA3	1:A:4736:ARG:NH1	2.36	0.40
1:A:4953:ASP:O	1:A:4957:LYS:HG3	2.21	0.40
1:B:70:GLU:OE2	1:B:110:ARG:HB3	2.21	0.40
1:B:231:LEU:CD1	1:B:245:VAL:HG12	2.48	0.40
1:B:236:ALA:N	1:B:242:ARG:NH2	2.69	0.40
1:B:414:PHE:O	1:B:418:LEU:HG	2.21	0.40
1:B:1074:ILE:HD12	1:B:1111:PRO:O	2.20	0.40
1:B:1805:GLU:HG2	1:B:1806:ALA:N	2.36	0.40
1:B:2548:LEU:O	1:B:2552:ARG:HD3	2.22	0.40
1:B:2742:THR:O	1:B:2743:LEU:C	2.65	0.40
1:B:4105:GLY:O	1:B:4109:GLN:HG2	2.21	0.40
1:B:4580:TYR:N	1:B:4632:LEU:HD23	2.37	0.40
1:B:4586:PRO:HG3	1:B:4629:TYR:CE1	2.56	0.40
1:D:276:TRP:O	1:D:328:LYS:NZ	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1024:TYR:O	1:D:1027:LEU:HB3	2.21	0.40
1:D:1164:LEU:HB2	1:D:1169:LEU:HD21	2.02	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.54	0.40
1:D:1435:TYR:CD1	1:D:1575:LEU:HD13	2.56	0.40
1:D:1690:ASP:OD1	1:D:1693:GLN:N	2.40	0.40
1:D:2138:LEU:HB2	1:D:3658:LYS:HE2	2.03	0.40
1:D:2258:LEU:O	1:D:2261:SER:OG	2.37	0.40
1:D:2470:ILE:O	1:D:2499:LYS:NZ	2.45	0.40
1:D:2476:ILE:HD12	1:D:2536:LEU:HD11	2.03	0.40
1:D:3105:LYS:C	1:D:3106:MET:HE2	2.46	0.40
1:D:3536:ALA:O	1:D:3540:TYR:CD2	2.74	0.40
1:D:3951:PHE:CE2	1:D:3955:MET:SD	3.14	0.40
1:D:4938:ASP:OD2	1:C:4944:ARG:NE	2.47	0.40
1:C:580:GLU:HA	1:C:583:ILE:HD13	2.03	0.40
1:C:626:LEU:N	1:C:627:PRO:HD2	2.37	0.40
1:C:651:GLY:HA3	1:C:776:LEU:HD23	2.03	0.40
1:C:915:GLU:OE2	1:C:918:ARG:NH1	2.53	0.40
1:C:1286:MET:HG2	1:C:1462:MET:O	2.20	0.40
1:C:1480:GLN:O	1:C:1481:GLY:C	2.64	0.40
1:C:1573:MET:CE	1:C:1577:ALA:HB2	2.50	0.40
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.21	0.40
1:C:2328:GLY:O	1:C:2332:LEU:HG	2.20	0.40
1:C:2742:THR:O	1:C:2743:LEU:C	2.65	0.40
1:C:2825:LYS:HA	1:C:2935:TYR:HA	2.03	0.40
1:C:2908:TYR:CB	1:C:2916:LYS:HE2	2.51	0.40
1:C:3354:LEU:HD12	1:C:3415:TYR:CD2	2.56	0.40
1:C:3354:LEU:HB2	1:C:3415:TYR:CZ	2.56	0.40
1:C:3359:ILE:HB	1:C:3360:PRO:HD3	2.03	0.40
1:C:3571:TRP:CE2	1:C:3572:GLN:NE2	2.89	0.40
1:C:3696:ASP:OD1	1:C:3699:HIS:HB2	2.22	0.40
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.21	0.40
1:C:4673:ARG:NE	1:C:4702:ASP:OD1	2.54	0.40
1:C:4953:ASP:O	1:C:4957:LYS:HG3	2.21	0.40
1:C:4985:LEU:HD12	1:C:4985:LEU:C	2.46	0.40
1:A:601:ASP:HA	1:A:1668:ARG:HH22	1.86	0.40
1:A:1024:TYR:O	1:A:1027:LEU:HB3	2.21	0.40
1:A:1256:GLU:O	1:A:1272:LEU:HD12	2.22	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.21	0.40
1:A:2029:GLN:HA	1:A:2032:GLN:OE1	2.21	0.40
1:A:2247:GLN:HG3	1:A:2279:SER:HA	2.04	0.40
1:A:2318:TYR:CG	1:A:2395:PRO:HD3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3326:ASN:O	1:A:3335:MET:HE1	2.20	0.40
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.21	0.40
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.21	0.40
1:A:4627:MET:SD	1:A:4629:TYR:CZ	3.15	0.40
2:E:49:MET:CG	2:E:52:LYS:NZ	2.84	0.40
1:B:125:ARG:NH1	1:B:134:ASP:HA	2.36	0.40
1:B:345:LEU:HD21	1:B:389:PHE:CE2	2.56	0.40
1:B:648:ILE:HG23	1:B:814:ALA:HB3	2.03	0.40
1:B:945:LYS:HD2	1:B:946:ALA:N	2.36	0.40
1:B:985:VAL:O	1:B:1039:LEU:HD23	2.21	0.40
1:B:1069:TRP:CZ3	1:B:1603:VAL:HB	2.57	0.40
1:B:2195:PRO:HA	1:B:2198:MET:HE2	2.03	0.40
1:B:2318:TYR:CG	1:B:2395:PRO:HD3	2.56	0.40
1:B:2630:VAL:N	1:B:2631:PRO:CD	2.84	0.40
1:B:2763:HIS:HE2	1:B:2805:TYR:HB3	1.87	0.40
1:B:2806:ARG:HH11	1:B:2810:LYS:HE2	1.86	0.40
1:B:2927:LEU:HD11	1:B:2937:VAL:HG11	2.01	0.40
1:B:3443:ILE:HG22	1:B:3447:LYS:HD2	2.03	0.40
1:B:4649:LEU:O	1:B:4653:VAL:HG23	2.21	0.40
1:D:172:VAL:HG13	1:D:178:ARG:N	2.36	0.40
1:D:229:GLU:CD	1:D:247:TYR:HB3	2.47	0.40
1:D:231:LEU:HD13	1:D:247:TYR:HE1	1.81	0.40
1:D:547:VAL:O	1:D:551:LEU:CD1	2.70	0.40
1:D:839:LEU:HD23	1:D:1075:PHE:CD2	2.57	0.40
1:D:945:LYS:HD2	1:D:946:ALA:N	2.36	0.40
1:D:1069:TRP:CZ3	1:D:1603:VAL:HB	2.57	0.40
1:D:1454:THR:HB	1:D:1455:PRO:HD2	2.04	0.40
1:D:1573:MET:CE	1:D:1577:ALA:HB2	2.50	0.40
1:D:2178:MET:SD	1:D:2178:MET:C	3.04	0.40
1:D:2178:MET:O	1:D:2182:ILE:HG12	2.22	0.40
1:D:2381:GLU:HB3	1:D:2385:ARG:HH12	1.85	0.40
1:D:2514:ASN:OD1	1:D:2514:ASN:N	2.53	0.40
1:D:2630:VAL:N	1:D:2631:PRO:CD	2.84	0.40
1:D:2878:LEU:HG	1:D:2882:TYR:OH	2.22	0.40
1:D:3376:GLU:HB3	1:D:3380:ARG:NH1	2.36	0.40
1:D:3644:LEU:HD12	1:D:3645:PRO:CD	2.52	0.40
1:D:4627:MET:SD	1:D:4629:TYR:CZ	3.14	0.40
1:D:4649:LEU:O	1:D:4653:VAL:HG23	2.21	0.40
1:C:861:ILE:HD11	1:C:863:LEU:HD11	2.03	0.40
1:C:945:LYS:HD2	1:C:946:ALA:N	2.36	0.40
1:C:1575:LEU:HD23	1:C:1575:LEU:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2209:GLU:HA	1:C:2212:VAL:HG22	2.03	0.40
1:C:2223:ILE:O	1:C:2223:ILE:CG2	2.69	0.40
1:C:2611:CYS:SG	1:C:2643:LEU:HD11	2.61	0.40
1:C:2763:HIS:HE2	1:C:2805:TYR:HB3	1.87	0.40
1:C:2768:PHE:HB2	1:C:2857:PRO:CG	2.50	0.40
1:C:2971:GLN:CD	1:C:3049:LEU:HD13	2.45	0.40
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.22	0.40
1:C:3179:LYS:C	1:C:3179:LYS:HD2	2.47	0.40
1:C:3222:LYS:HB3	1:C:3226:GLU:CG	2.51	0.40
1:C:3432:GLU:OE1	1:C:3524:MET:HE3	2.21	0.40
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	2.03	0.40
1:C:4189:ARG:HB2	1:C:5031:GLN:NE2	2.36	0.40
1:C:4658:ILE:CD1	1:C:4792:LEU:HB3	2.51	0.40
1:C:4859:PHE:HE1	1:C:4909:TYR:HB3	1.86	0.40
1:A:580:GLU:HA	1:A:583:ILE:HD13	2.03	0.40
1:A:1244:GLN:C	1:A:1600:LEU:HD12	2.47	0.40
1:A:1435:TYR:CD1	1:A:1575:LEU:HD13	2.57	0.40
1:A:2209:GLU:HA	1:A:2212:VAL:HG22	2.03	0.40
1:A:2754:PHE:HE1	1:A:2929:PHE:CD2	2.40	0.40
1:A:3536:ALA:O	1:A:3540:TYR:CD2	2.74	0.40
1:A:3573:MET:HE3	1:A:3577:ARG:HG3	2.04	0.40
1:A:4855:ALA:HA	1:A:4859:PHE:HB2	2.03	0.40
1:A:4985:LEU:HD12	1:A:4985:LEU:C	2.46	0.40
1:B:601:ASP:HA	1:B:1668:ARG:HH22	1.86	0.40
1:B:651:GLY:HA3	1:B:776:LEU:HD23	2.03	0.40
1:B:884:LEU:O	1:B:887:ILE:N	2.54	0.40
1:B:908:VAL:HG23	1:B:909:ASN:H	1.87	0.40
1:B:1153:ILE:O	1:B:1153:ILE:HG23	2.21	0.40
1:B:1244:GLN:C	1:B:1600:LEU:HD12	2.47	0.40
1:B:1270:LEU:HD11	1:B:1591:CYS:SG	2.61	0.40
1:B:1480:GLN:O	1:B:1481:GLY:C	2.64	0.40
1:B:2090:LYS:HZ1	1:B:2092:GLN:CD	2.28	0.40
1:B:2754:PHE:HE1	1:B:2929:PHE:CD2	2.40	0.40
1:B:3105:LYS:C	1:B:3106:MET:HE2	2.46	0.40
1:B:3413:ILE:HG23	1:B:3516:LYS:CD	2.51	0.40
1:B:3498:ARG:HG3	1:B:3501:ASP:H	1.85	0.40
1:B:4070:ASP:OD1	1:B:4070:ASP:C	2.63	0.40
1:D:70:GLU:OE2	1:D:110:ARG:HB3	2.21	0.40
1:D:296:ASP:OD1	1:D:297:GLN:N	2.54	0.40
1:D:568:LEU:HD12	1:D:602:VAL:HG13	2.03	0.40
1:D:884:LEU:O	1:D:887:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.21	0.40
1:D:1289:LEU:HA	1:D:1598:GLN:O	2.21	0.40
1:D:1451:GLY:HA3	1:D:1494:MET:HA	2.03	0.40
1:D:1705:GLY:HA3	1:D:1836:PHE:CG	2.55	0.40
1:D:1972:ASN:OD1	1:D:1976:ARG:NH1	2.54	0.40
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.21	0.40
1:D:2170:MET:HG3	1:D:2225:PHE:CE2	2.56	0.40
1:D:2612[B]:ARG:NH2	1:D:2613:TYR:CD2	2.88	0.40
1:D:3521:GLY:O	1:D:3524:MET:HB3	2.22	0.40
1:D:3856:LEU:HD12	1:D:3856:LEU:H	1.86	0.40
1:D:3996:PHE:CD1	1:D:4016:LEU:CD1	3.03	0.40
1:D:4184:MET:HE3	1:D:4188:ARG:C	2.47	0.40
1:D:4993:MET:HA	1:D:4996:ILE:HD12	2.03	0.40
1:C:70:GLU:OE2	1:C:110:ARG:HB3	2.21	0.40
1:C:236:ALA:N	1:C:242:ARG:NH2	2.68	0.40
1:C:515:TRP:O	1:C:519:VAL:HG13	2.21	0.40
1:C:985:VAL:O	1:C:1039:LEU:HD23	2.21	0.40
1:C:1024:TYR:O	1:C:1027:LEU:HB3	2.21	0.40
1:C:1069:TRP:CZ3	1:C:1603:VAL:HB	2.57	0.40
1:C:1256:GLU:O	1:C:1272:LEU:HD12	2.22	0.40
1:C:1270:LEU:HD11	1:C:1591:CYS:SG	2.61	0.40
1:C:1741:GLU:O	1:C:1745:ILE:HG13	2.21	0.40
1:C:1931:LEU:HD13	1:C:1935:VAL:HG11	2.02	0.40
1:C:2178:MET:O	1:C:2182:ILE:HG12	2.21	0.40
1:C:2381:GLU:CB	1:C:2385:ARG:NH1	2.84	0.40
1:C:4666:VAL:N	1:C:4667:PRO:CD	2.84	0.40
1:A:831:ARG:NH2	1:A:1199:VAL:HG21	2.35	0.40
1:A:875:ALA:HB1	1:A:922:LEU:HD22	2.00	0.40
1:A:884:LEU:O	1:A:887:ILE:N	2.54	0.40
1:A:1636:MET:HE2	1:A:1638:ALA:HB2	2.03	0.40
1:A:2088:GLU:HG3	1:A:2092:GLN:HG2	2.03	0.40
1:A:2170:MET:HG3	1:A:2225:PHE:CE2	2.56	0.40
1:A:2214:VAL:HG11	1:A:2228:MET:CE	2.50	0.40
1:A:2377:LEU:O	1:A:2381:GLU:HG3	2.22	0.40
1:A:2440:MET:O	1:A:2444:GLN:OE1	2.40	0.40
1:A:2763:HIS:HE2	1:A:2805:TYR:HB3	1.87	0.40
1:A:2806:ARG:HH11	1:A:2810:LYS:HE2	1.86	0.40
1:A:2960:LEU:HD23	1:A:2960:LEU:O	2.22	0.40
1:A:3209:GLN:OE1	1:A:3209:GLN:N	2.45	0.40
1:A:3413:ILE:HG23	1:A:3516:LYS:CD	2.51	0.40
1:A:3856:LEU:HD12	1:A:3856:LEU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:GLN:HG2	1:B:57:ASN:N	2.36	0.40
1:B:229:GLU:CD	1:B:247:TYR:HB3	2.47	0.40
1:B:991:ASN:O	1:B:995:VAL:HG23	2.21	0.40
1:B:1754:GLY:O	1:B:1757:ALA:N	2.54	0.40
1:B:2102:VAL:HG22	1:B:2120:MET:HB2	2.02	0.40
1:B:2441:HIS:CA	1:B:2444:GLN:OE1	2.69	0.40
1:B:3573:MET:HE3	1:B:3577:ARG:HG3	2.04	0.40
1:B:4985:LEU:HD12	1:B:4985:LEU:C	2.46	0.40
1:D:870:ILE:O	1:D:871:ARG:C	2.64	0.40
1:D:1270:LEU:HD11	1:D:1591:CYS:SG	2.61	0.40
1:D:2094:LEU:O	1:D:2098:VAL:HG23	2.21	0.40
1:D:2347:GLU:OE1	1:D:2347:GLU:N	2.41	0.40
1:D:2514:ASN:ND2	1:D:2516:ASP:OD1	2.54	0.40
1:D:3137:LEU:HD21	1:D:3189:ALA:HB1	2.03	0.40
1:D:3179:LYS:C	1:D:3179:LYS:HD2	2.47	0.40
1:D:3439:GLY:HA2	1:D:3514:LEU:HD11	2.04	0.40
1:D:3590:GLU:HG2	1:D:3591:LYS:N	2.36	0.40
1:D:3696:ASP:OD1	1:D:3699:HIS:HB2	2.22	0.40
1:D:3719:ASP:N	1:D:3793:MET:CE	2.81	0.40
1:D:4733:GLY:HA3	1:D:4736:ARG:NH1	2.37	0.40
1:D:4927:ILE:O	1:D:4930:ALA:HB3	2.22	0.40
1:C:414:PHE:O	1:C:418:LEU:HG	2.20	0.40
1:C:706:GLY:N	1:C:709:ASP:OD2	2.54	0.40
1:C:1074:ILE:HD12	1:C:1111:PRO:O	2.21	0.40
1:C:1289:LEU:HA	1:C:1598:GLN:O	2.21	0.40
1:C:1454:THR:HB	1:C:1455:PRO:HD2	2.03	0.40
1:C:1636:MET:HE2	1:C:1638:ALA:HB2	2.03	0.40
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.21	0.40
1:C:3376:GLU:HB3	1:C:3380:ARG:NH1	2.37	0.40
1:C:3471:THR:O	1:C:3472:ALA:C	2.65	0.40
1:C:4586:PRO:HG3	1:C:4629:TYR:CE1	2.56	0.40
1:C:4827:LEU:HD23	1:C:4831:THR:HG23	2.02	0.40
1:C:4942:GLU:O	1:C:4946:GLN:HG3	2.20	0.40
1:C:5036:LEU:O	1:C:5037:SER:CB	2.64	0.40
1:A:547:VAL:O	1:A:551:LEU:CD1	2.70	0.40
1:A:985:VAL:O	1:A:1039:LEU:HD23	2.21	0.40
1:A:991:ASN:O	1:A:995:VAL:HG23	2.21	0.40
1:A:1218:GLY:O	1:A:1222:GLY:N	2.50	0.40
1:A:2102:VAL:HG22	1:A:2120:MET:HB2	2.02	0.40
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.21	0.40
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3111:ARG:HH21	1:A:3178:THR:HG21	1.87	0.40
1:A:3696:ASP:OD1	1:A:3699:HIS:HB2	2.22	0.40
1:A:4159:ARG:O	1:A:4162:ASN:OD1	2.40	0.40
1:A:4189:ARG:HB2	1:A:5031:GLN:NE2	2.36	0.40
1:B:172:VAL:HG13	1:B:178:ARG:N	2.36	0.40
1:B:242:ARG:O	1:B:242:ARG:HG2	2.22	0.40
1:B:839:LEU:HD23	1:B:1075:PHE:CD2	2.57	0.40
1:B:904:HIS:CD2	1:B:906:CYS:HB3	2.56	0.40
1:B:990:GLU:CD	1:B:1024:TYR:HB3	2.47	0.40
1:B:1104:TRP:CZ2	1:B:1153:ILE:HG22	2.56	0.40
1:B:1153:ILE:CD1	1:B:1155:LEU:HD21	2.47	0.40
1:B:1636:MET:HE2	1:B:1638:ALA:HB2	2.03	0.40
1:B:2094:LEU:O	1:B:2098:VAL:HG23	2.21	0.40
1:B:3677:LEU:O	1:B:3697:PRO:HD2	2.22	0.40
1:B:3842:LEU:HD23	1:B:3874:VAL:CG1	2.51	0.40
1:B:4020:GLN:O	1:B:4024:VAL:HG23	2.22	0.40
1:B:4189:ARG:HB2	1:B:5031:GLN:NE2	2.36	0.40
1:D:614:VAL:HG22	1:D:2169:GLN:CD	2.46	0.40
1:D:861:ILE:HD11	1:D:863:LEU:HD11	2.03	0.40
1:D:2028:ARG:O	1:D:2032:GLN:OE1	2.40	0.40
1:D:2102:VAL:HG22	1:D:2120:MET:HB2	2.02	0.40
1:D:2381:GLU:CB	1:D:2385:ARG:NH1	2.84	0.40
1:D:2498:HIS:O	1:D:2501:SER:OG	2.33	0.40
1:D:2600:ARG:O	1:D:2604:GLU:HG3	2.21	0.40
1:D:3078:ARG:O	1:D:3082:LYS:HD3	2.22	0.40
1:D:3209:GLN:OE1	1:D:3209:GLN:N	2.45	0.40
1:D:3471:THR:O	1:D:3472:ALA:C	2.65	0.40
1:D:3842:LEU:HD23	1:D:3874:VAL:CG1	2.51	0.40
1:D:4189:ARG:HB2	1:D:5031:GLN:NE2	2.36	0.40
1:D:4863:TYR:OH	1:D:4886:HIS:NE2	2.54	0.40
1:D:4953:ASP:O	1:D:4957:LYS:HG3	2.21	0.40
1:C:364:PRO:O	1:C:365:LYS:HB3	2.21	0.40
1:C:648:ILE:HG23	1:C:814:ALA:HB3	2.03	0.40
1:C:831:ARG:NH2	1:C:1199:VAL:HG21	2.35	0.40
1:C:839:LEU:HD23	1:C:1075:PHE:CD2	2.57	0.40
1:C:1218:GLY:O	1:C:1222:GLY:N	2.50	0.40
1:C:1245:PHE:CE2	1:C:1600:LEU:HD13	2.56	0.40
1:C:2377:LEU:O	1:C:2381:GLU:HG3	2.22	0.40
1:C:2514:ASN:ND2	1:C:2516:ASP:OD1	2.54	0.40
1:C:2548:LEU:O	1:C:2552:ARG:HD3	2.22	0.40
1:C:3105:LYS:C	1:C:3106:MET:HE2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3391:GLU:O	1:C:3394:VAL:HG12	2.21	0.40
1:C:3413:ILE:HG23	1:C:3516:LYS:CD	2.51	0.40
1:C:3439:GLY:HA2	1:C:3514:LEU:HD11	2.04	0.40
1:C:3443:ILE:HG22	1:C:3447:LYS:HD2	2.03	0.40
1:C:3465:ASN:C	1:C:3467:MET:H	2.30	0.40
1:C:3644:LEU:HD12	1:C:3645:PRO:CD	2.52	0.40
1:C:3836:MET:O	1:C:3839:CYS:SG	2.80	0.40
1:C:4580:TYR:CZ	1:C:4630:TYR:HB3	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	77
1	B	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	77
1	C	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	77
1	D	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	77
2	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17426 (97%)	518 (3%)	16 (0%)	50	77

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3300	ALA
1	A	4711	PHE

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Mol	Chain	Res	Type
1	B	3300	ALA
1	B	4711	PHE
1	D	3300	ALA
1	D	4711	PHE
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	A	361	ALA
1	B	55	ALA
1	B	361	ALA
1	D	55	ALA
1	D	361	ALA
1	C	55	ALA
1	C	361	ALA

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3836/4276 (90%)	3819 (100%)	17 (0%)	89	94
1	B	3836/4276 (90%)	3819 (100%)	17 (0%)	89	94
1	C	3836/4276 (90%)	3819 (100%)	17 (0%)	89	94
1	D	3836/4276 (90%)	3819 (100%)	17 (0%)	89	94
2	E	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	F	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	G	89/90 (99%)	87 (98%)	2 (2%)	47	68
2	H	89/90 (99%)	87 (98%)	2 (2%)	47	68
All	All	15700/17464 (90%)	15624 (100%)	76 (0%)	88	92

All (76) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	960	MET

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Mol	Chain	Res	Type
1	A	1286	MET
1	A	1865	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2584[A]	HIS
1	A	2584[B]	HIS
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2677	LYS
1	A	2816	MET
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3622	LYS
1	A	3856	LEU
2	E	17	LYS
2	E	94	HIS
2	H	17	LYS
2	H	94	HIS
2	G	17	LYS
2	G	94	HIS
2	F	17	LYS
2	F	94	HIS
1	B	960	MET
1	B	1286	MET
1	B	1865	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2584[A]	HIS
1	B	2584[B]	HIS
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2677	LYS
1	B	2816	MET
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3622	LYS
1	B	3856	LEU
1	D	960	MET

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Mol	Chain	Res	Type
1	D	1286	MET
1	D	1865	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2584[A]	HIS
1	D	2584[B]	HIS
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2677	LYS
1	D	2816	MET
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3622	LYS
1	D	3856	LEU
1	C	960	MET
1	C	1286	MET
1	C	1865	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2584[A]	HIS
1	C	2584[B]	HIS
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2677	LYS
1	C	2816	MET
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3622	LYS
1	C	3856	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (177) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	111	HIS
1	A	151	HIS
1	A	224	HIS
1	A	284	HIS
1	A	582	HIS

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Mol	Chain	Res	Type
1	A	848	HIS
1	A	921	ASN
1	A	1296	GLN
1	A	1298	HIS
1	A	1484	HIS
1	A	1563	GLN
1	A	1631	GLN
1	A	1663	HIS
1	A	1688	HIS
1	A	1702	HIS
1	A	1824	GLN
1	A	1941	ASN
1	A	1970	GLN
1	A	2036	GLN
1	A	2045	GLN
1	A	2213	ASN
1	A	2245	GLN
1	A	2260	ASN
1	A	2924	GLN
1	A	3109	ASN
1	A	3268	HIS
1	A	3325	ASN
1	A	3523	ASN
1	A	3558	HIS
1	A	3597	GLN
1	A	3781	GLN
1	A	3851	ASN
1	A	3896	ASN
1	A	3897	ASN
1	A	3950	ASN
1	A	4037	ASN
1	A	4223	ASN
1	A	4246	GLN
1	A	4547	GLN
1	A	4776	GLN
1	A	4857	ASN
1	A	5031	GLN
2	E	43	ASN
2	E	94	HIS
2	H	43	ASN
2	H	94	HIS
2	G	43	ASN

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Mol	Chain	Res	Type
2	G	94	HIS
2	F	43	ASN
2	F	94	HIS
1	B	111	HIS
1	B	224	HIS
1	B	284	HIS
1	B	582	HIS
1	B	812	HIS
1	B	838	HIS
1	B	848	HIS
1	B	921	ASN
1	B	991	ASN
1	B	1296	GLN
1	B	1298	HIS
1	B	1484	HIS
1	B	1563	GLN
1	B	1631	GLN
1	B	1663	HIS
1	B	1824	GLN
1	B	1941	ASN
1	B	1970	GLN
1	B	2036	GLN
1	B	2045	GLN
1	B	2245	GLN
1	B	2260	ASN
1	B	2881	ASN
1	B	3109	ASN
1	B	3145	GLN
1	B	3268	HIS
1	B	3343	GLN
1	B	3523	ASN
1	B	3558	HIS
1	B	3597	GLN
1	B	3781	GLN
1	B	3851	ASN
1	B	3896	ASN
1	B	3897	ASN
1	B	3950	ASN
1	B	4037	ASN
1	B	4223	ASN
1	B	4246	GLN
1	B	4547	GLN

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Mol	Chain	Res	Type
1	B	4776	GLN
1	B	4857	ASN
1	B	5031	GLN
1	D	111	HIS
1	D	224	HIS
1	D	284	HIS
1	D	582	HIS
1	D	838	HIS
1	D	848	HIS
1	D	909	ASN
1	D	921	ASN
1	D	991	ASN
1	D	1298	HIS
1	D	1484	HIS
1	D	1563	GLN
1	D	1611	HIS
1	D	1631	GLN
1	D	1663	HIS
1	D	1702	HIS
1	D	1824	GLN
1	D	1941	ASN
1	D	2036	GLN
1	D	2045	GLN
1	D	2245	GLN
1	D	2260	ASN
1	D	2924	GLN
1	D	3109	ASN
1	D	3268	HIS
1	D	3325	ASN
1	D	3343	GLN
1	D	3523	ASN
1	D	3558	HIS
1	D	3597	GLN
1	D	3781	GLN
1	D	3851	ASN
1	D	3896	ASN
1	D	3897	ASN
1	D	3950	ASN
1	D	4037	ASN
1	D	4223	ASN
1	D	4246	GLN
1	D	4547	GLN

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Mol	Chain	Res	Type
1	D	4776	GLN
1	D	4857	ASN
1	C	111	HIS
1	C	151	HIS
1	C	224	HIS
1	C	284	HIS
1	C	582	HIS
1	C	812	HIS
1	C	838	HIS
1	C	848	HIS
1	C	921	ASN
1	C	1296	GLN
1	C	1298	HIS
1	C	1484	HIS
1	C	1563	GLN
1	C	1631	GLN
1	C	1663	HIS
1	C	1702	HIS
1	C	1824	GLN
1	C	1941	ASN
1	C	1970	GLN
1	C	2036	GLN
1	C	2045	GLN
1	C	2213	ASN
1	C	2245	GLN
1	C	2881	ASN
1	C	2924	GLN
1	C	3109	ASN
1	C	3268	HIS
1	C	3325	ASN
1	C	3343	GLN
1	C	3523	ASN
1	C	3597	GLN
1	C	3781	GLN
1	C	3851	ASN
1	C	3896	ASN
1	C	3897	ASN
1	C	3950	ASN
1	C	4037	ASN
1	C	4156	HIS
1	C	4223	ASN
1	C	4246	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	4547	GLN
1	C	4776	GLN
1	C	4857	ASN
1	C	5031	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	A1BD2	B	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)
6	A1BD2	C	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)
3	ATP	C	5301	-	28,33,33	0.87	2 (7%)	34,52,52	0.81	0
6	A1BD2	D	5304	-	16,19,19	0.82	0	15,28,28	1.20	1 (6%)
6	A1BD2	A	5304	-	16,19,19	0.82	1 (6%)	15,28,28	1.20	1 (6%)
3	ATP	B	5301	-	28,33,33	0.87	2 (7%)	34,52,52	0.81	0
3	ATP	A	5301	-	28,33,33	0.88	2 (7%)	34,52,52	0.81	0
3	ATP	D	5301	-	28,33,33	0.88	2 (7%)	34,52,52	0.82	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD2	B	5304	-	-	2/4/6/6	0/2/2/2
6	A1BD2	C	5304	-	-	2/4/6/6	0/2/2/2
3	ATP	C	5301	-	-	8/18/38/38	0/3/3/3
6	A1BD2	D	5304	-	-	2/4/6/6	0/2/2/2
6	A1BD2	A	5304	-	-	2/4/6/6	0/2/2/2
3	ATP	B	5301	-	-	8/18/38/38	0/3/3/3
3	ATP	A	5301	-	-	8/18/38/38	0/3/3/3
3	ATP	D	5301	-	-	8/18/38/38	0/3/3/3

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	B	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	D	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	C	5301	ATP	C1'-N9	-2.39	1.44	1.49
3	A	5301	ATP	C8-N7	-2.23	1.30	1.34
3	D	5301	ATP	C8-N7	-2.21	1.30	1.34
3	C	5301	ATP	C8-N7	-2.21	1.30	1.34
3	B	5301	ATP	C8-N7	-2.17	1.30	1.34
6	A	5304	A1BD2	C8-N3	-2.02	1.46	1.48
6	B	5304	A1BD2	C8-N3	-2.02	1.46	1.48
6	C	5304	A1BD2	C8-N3	-2.02	1.46	1.48

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	D	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	C	5304	A1BD2	C2-N1-C5	-2.66	119.76	122.22
6	A	5304	A1BD2	C2-N1-C5	-2.63	119.79	122.22

There are no chirality outliers.

All (40) torsion outliers are listed below:

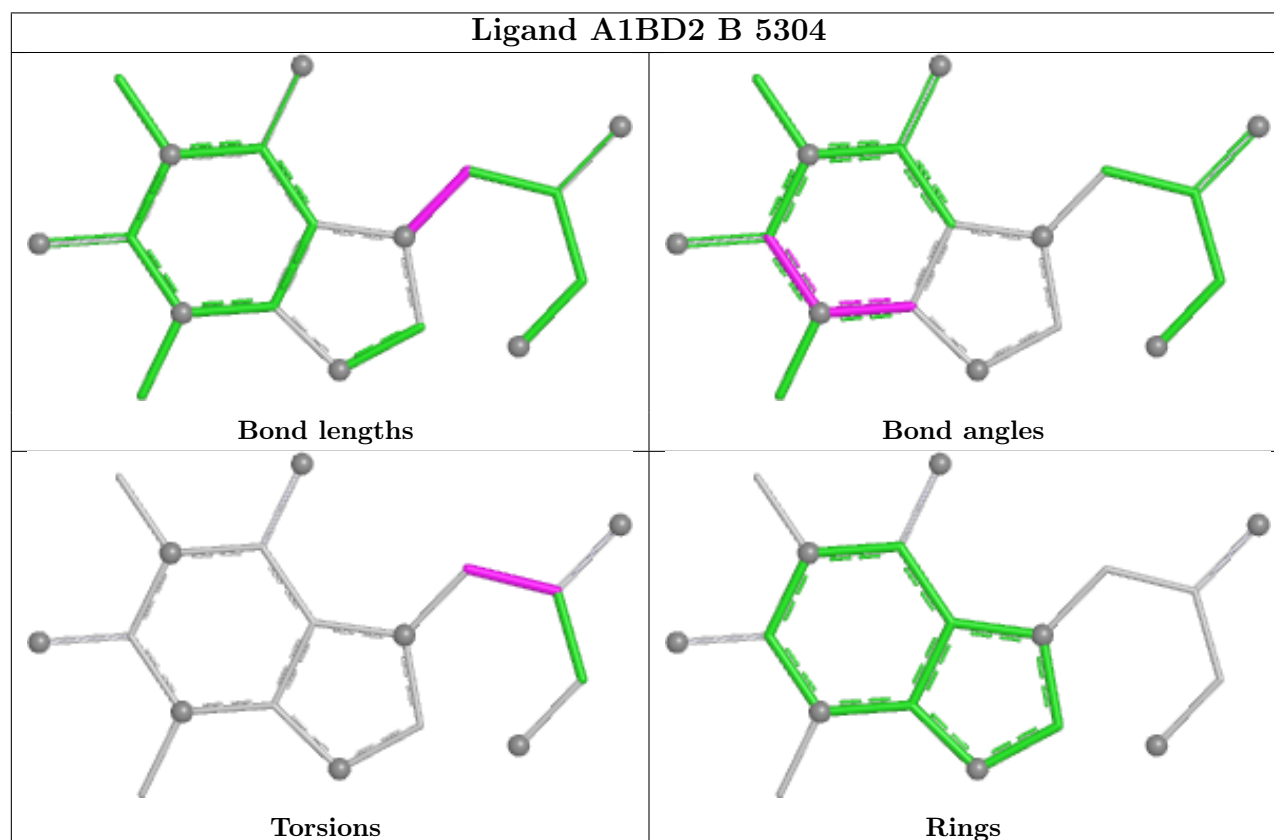
Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O2A
3	A	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C5'-O5'-PA-O2A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	D	5301	ATP	C5'-O5'-PA-O2A
3	D	5301	ATP	C5'-O5'-PA-O3A
3	D	5301	ATP	C3'-C4'-C5'-O5'
3	C	5301	ATP	C5'-O5'-PA-O2A
3	C	5301	ATP	C5'-O5'-PA-O3A
3	C	5301	ATP	C3'-C4'-C5'-O5'
6	A	5304	A1BD2	N3-C8-C9-C10
6	B	5304	A1BD2	N3-C8-C9-C10
6	D	5304	A1BD2	N3-C8-C9-C10
6	C	5304	A1BD2	N3-C8-C9-C10
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C4'-C5'-O5'-PA
3	B	5301	ATP	C4'-C5'-O5'-PA
3	D	5301	ATP	C4'-C5'-O5'-PA
3	C	5301	ATP	C4'-C5'-O5'-PA
6	A	5304	A1BD2	N3-C8-C9-O4
6	B	5304	A1BD2	N3-C8-C9-O4
6	D	5304	A1BD2	N3-C8-C9-O4
6	C	5304	A1BD2	N3-C8-C9-O4
3	A	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A
3	D	5301	ATP	C5'-O5'-PA-O1A
3	C	5301	ATP	C5'-O5'-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O2A

There are no ring outliers.

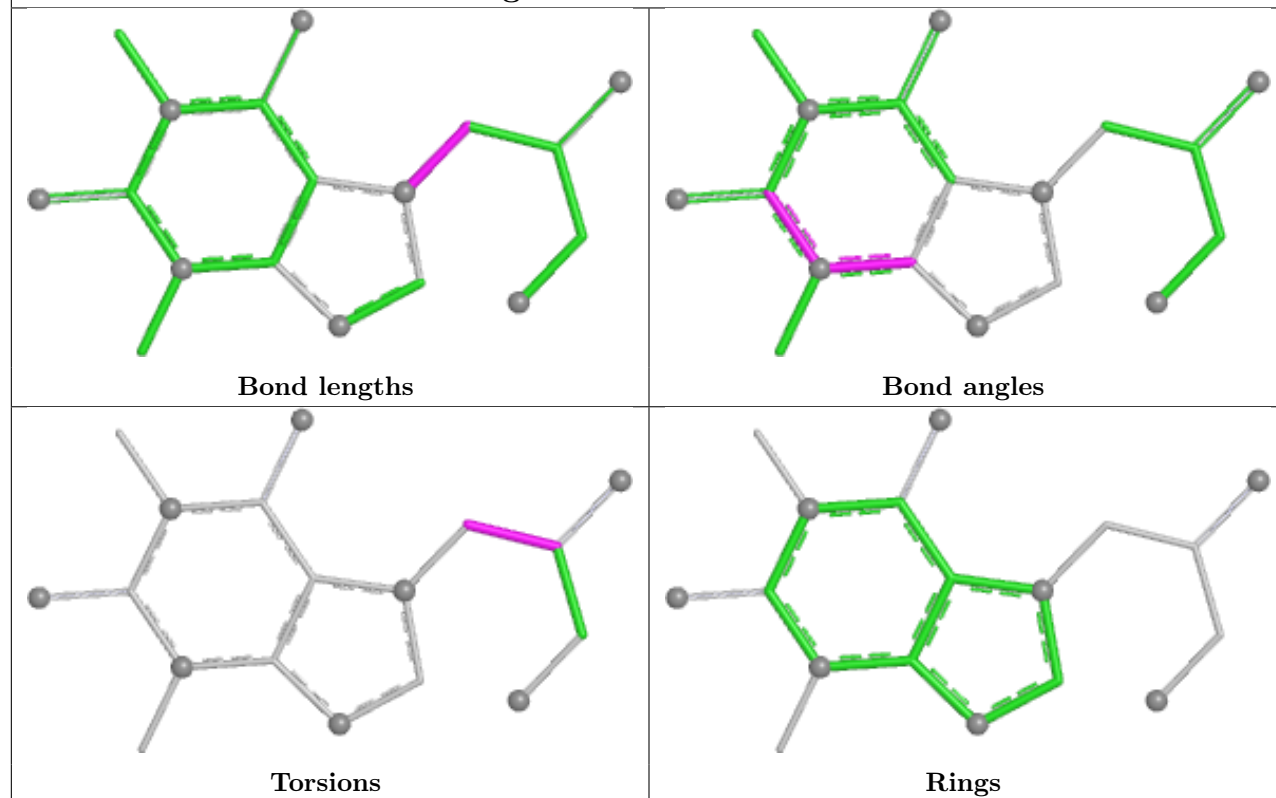
4 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	5304	A1BD2	3	0
6	C	5304	A1BD2	3	0
6	D	5304	A1BD2	3	0
6	A	5304	A1BD2	3	0

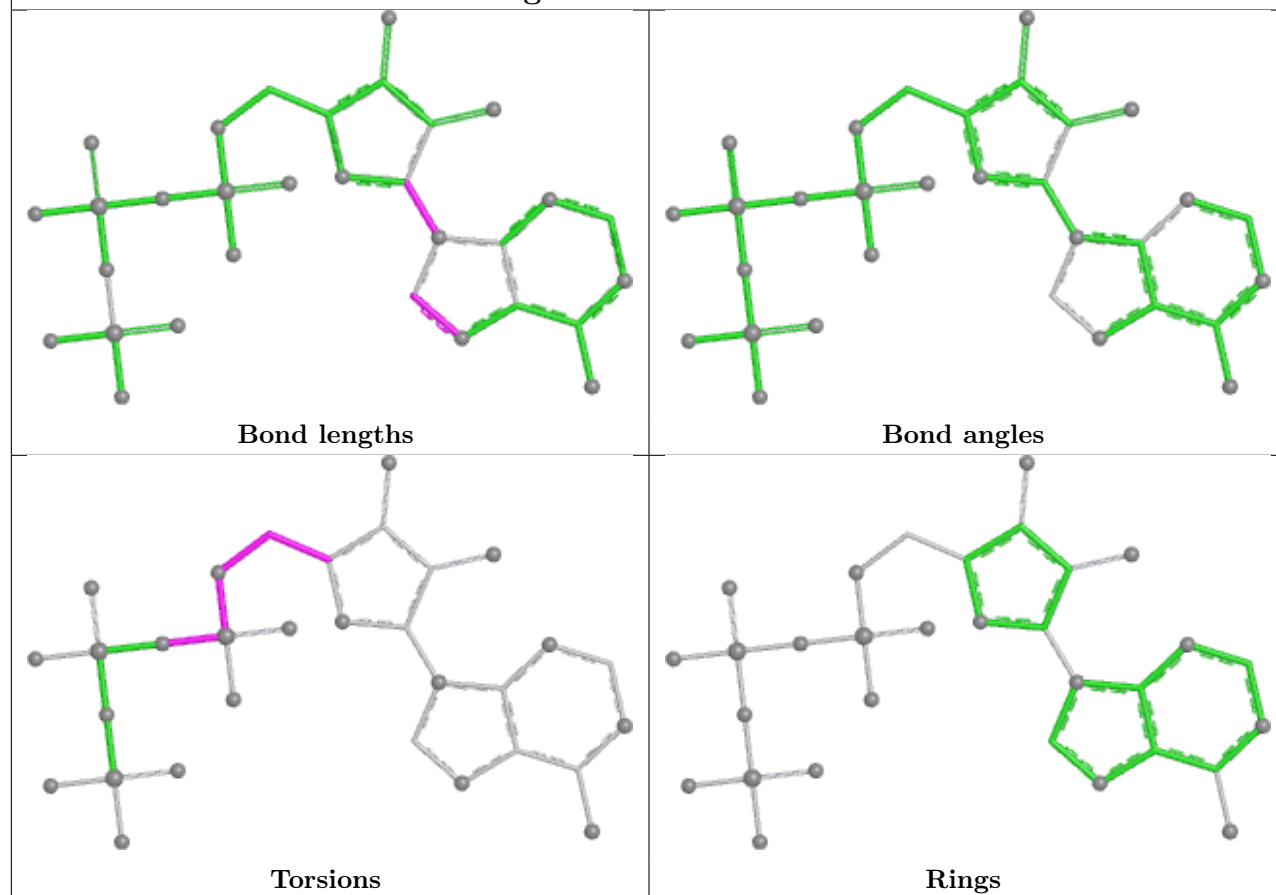
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



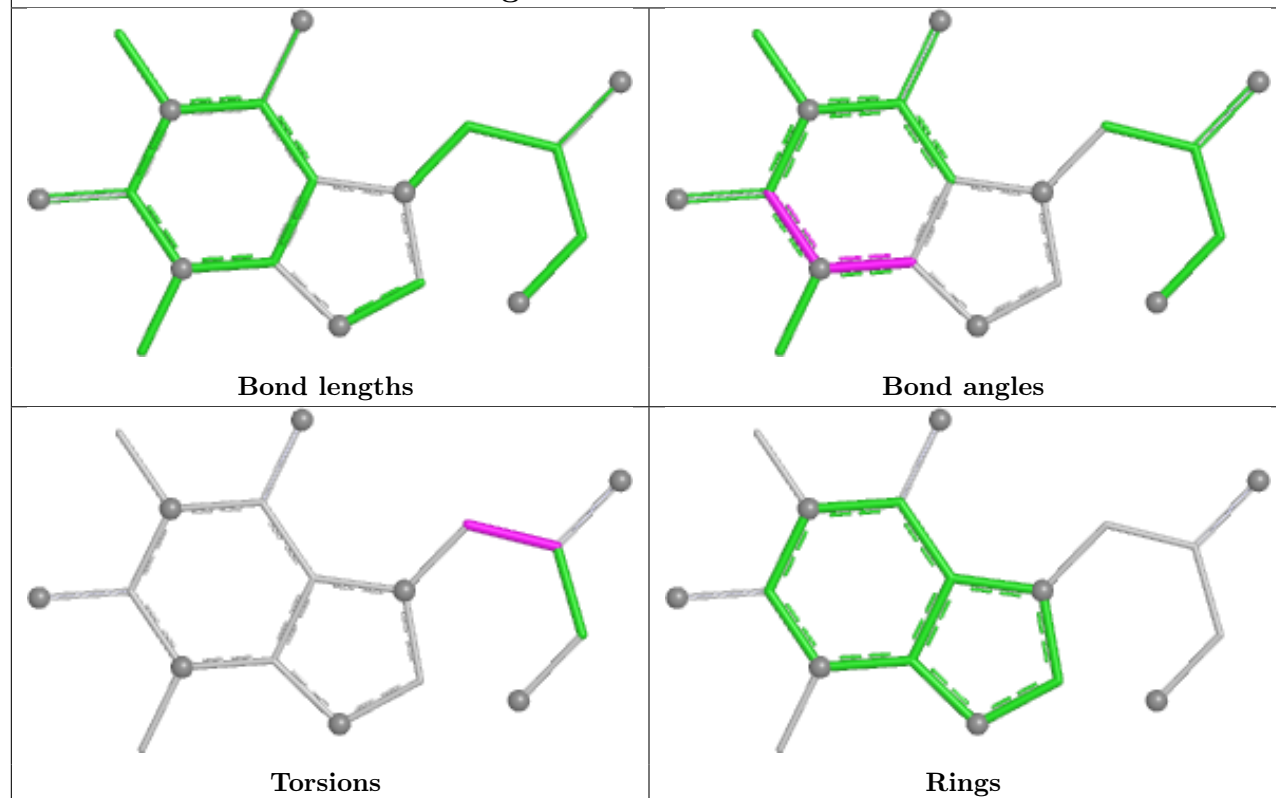
Ligand A1BD2 C 5304



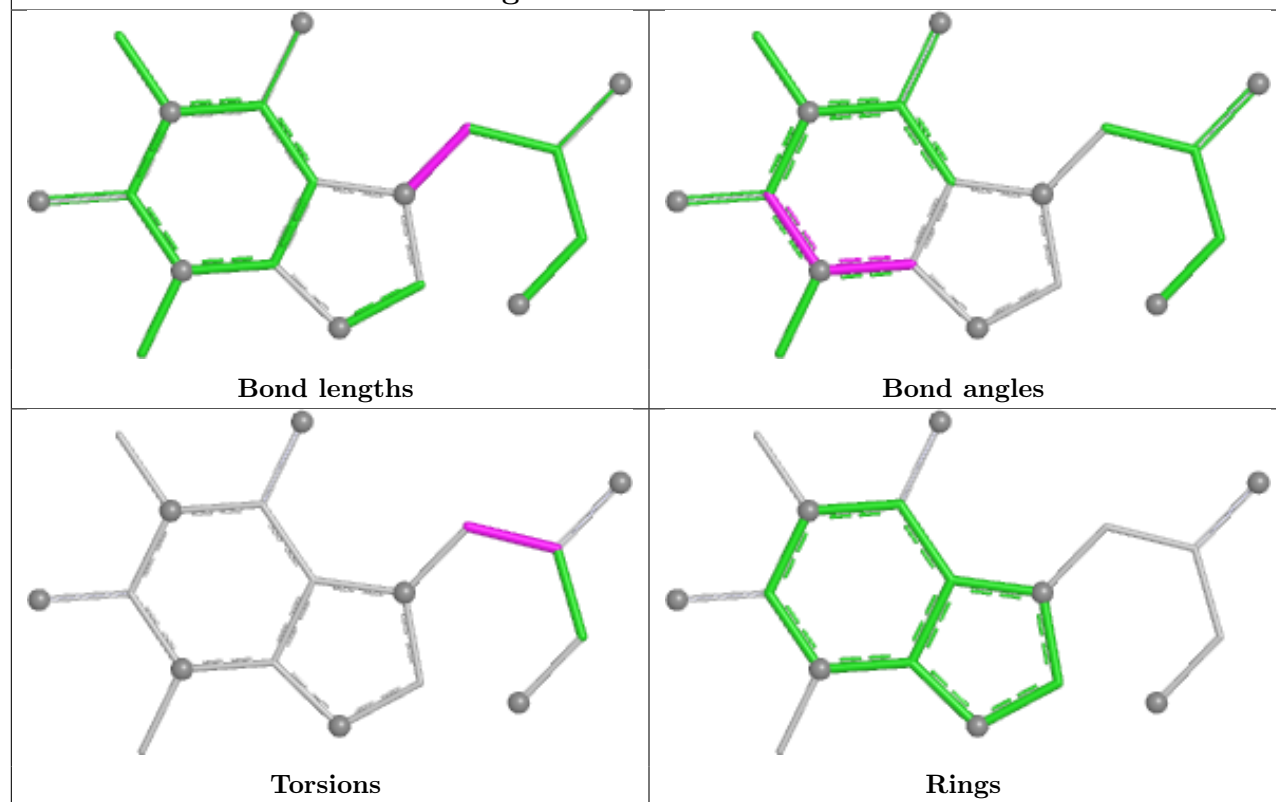
Ligand ATP C 5301

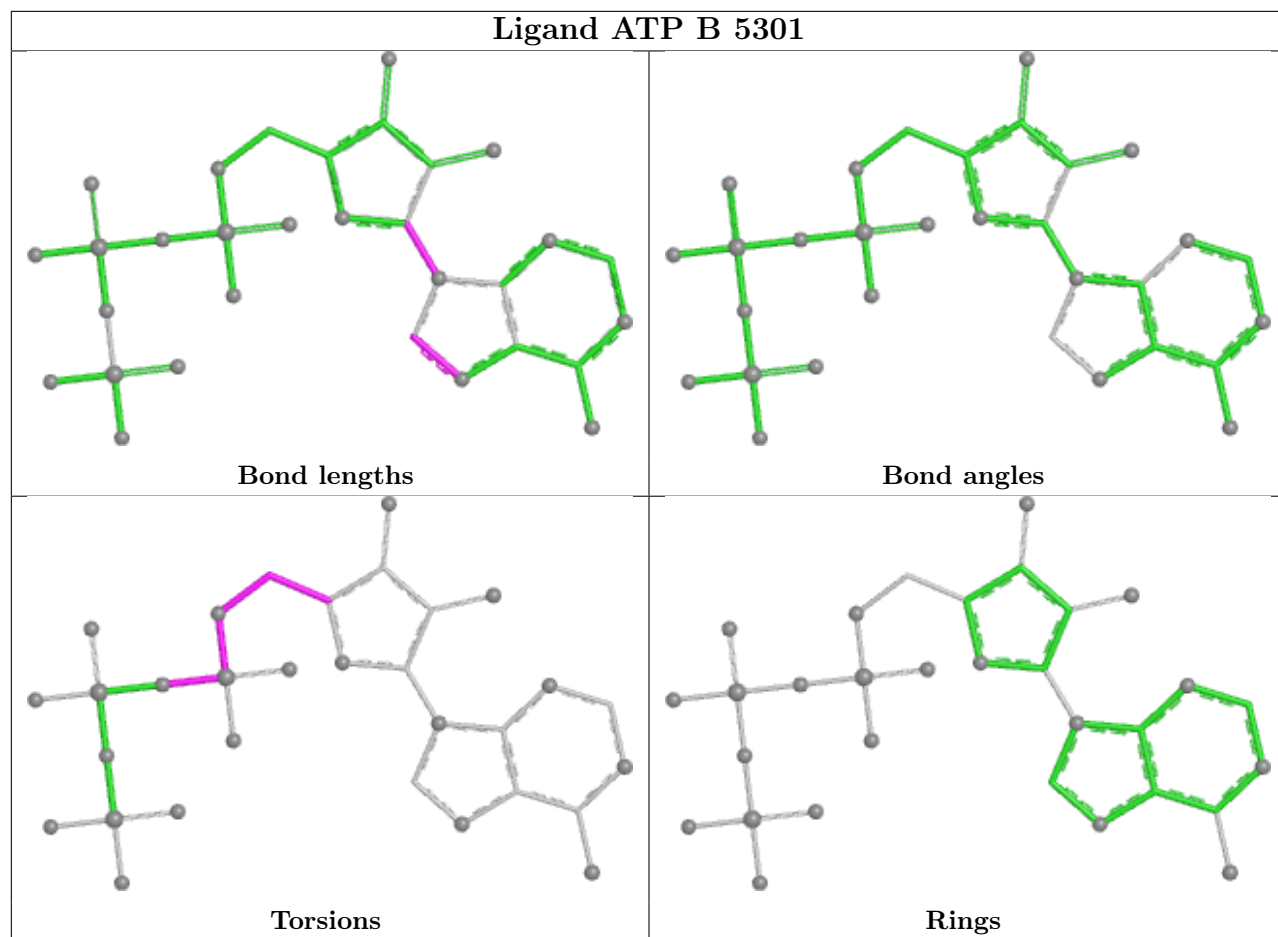


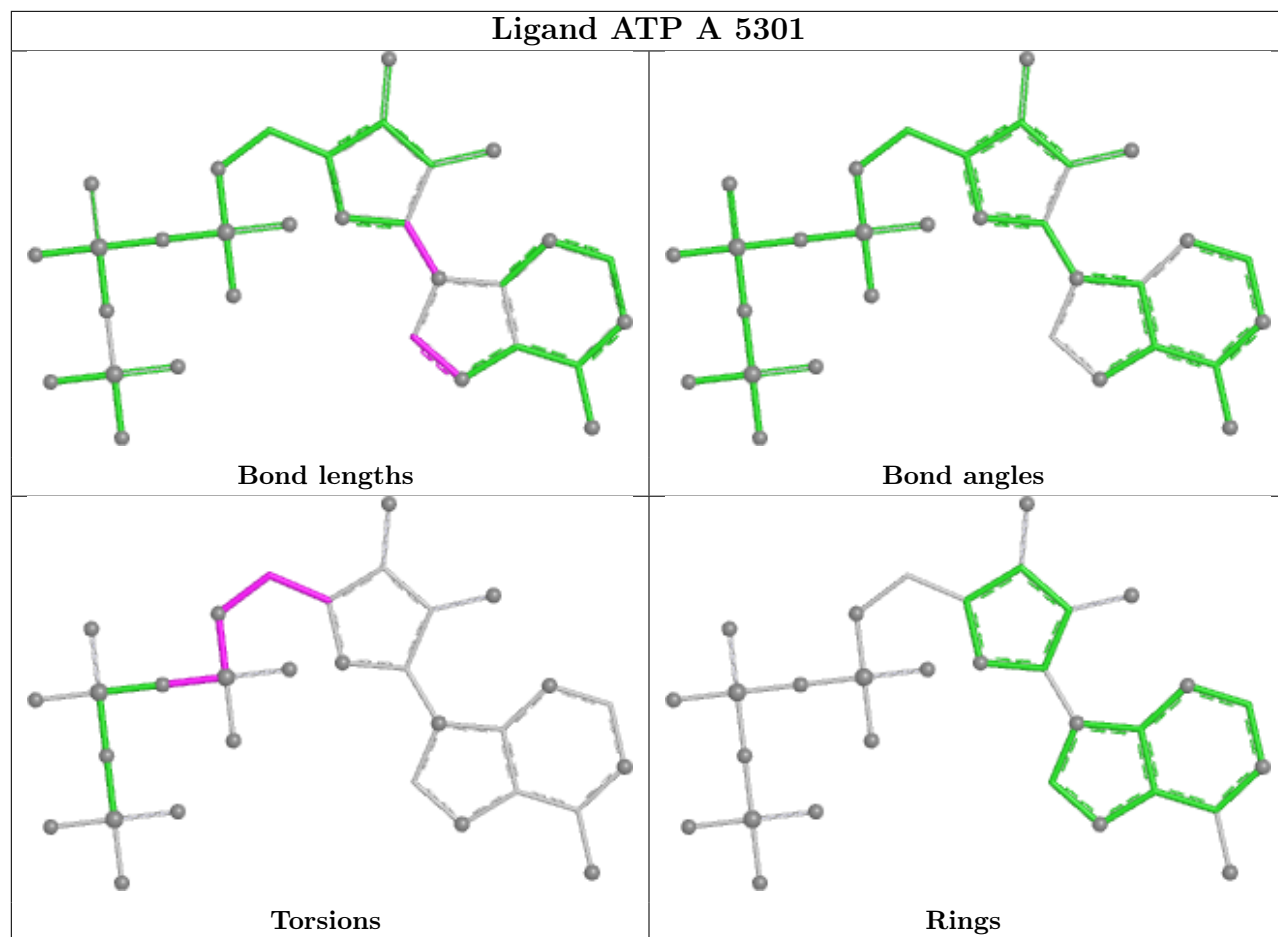
Ligand A1BD2 D 5304

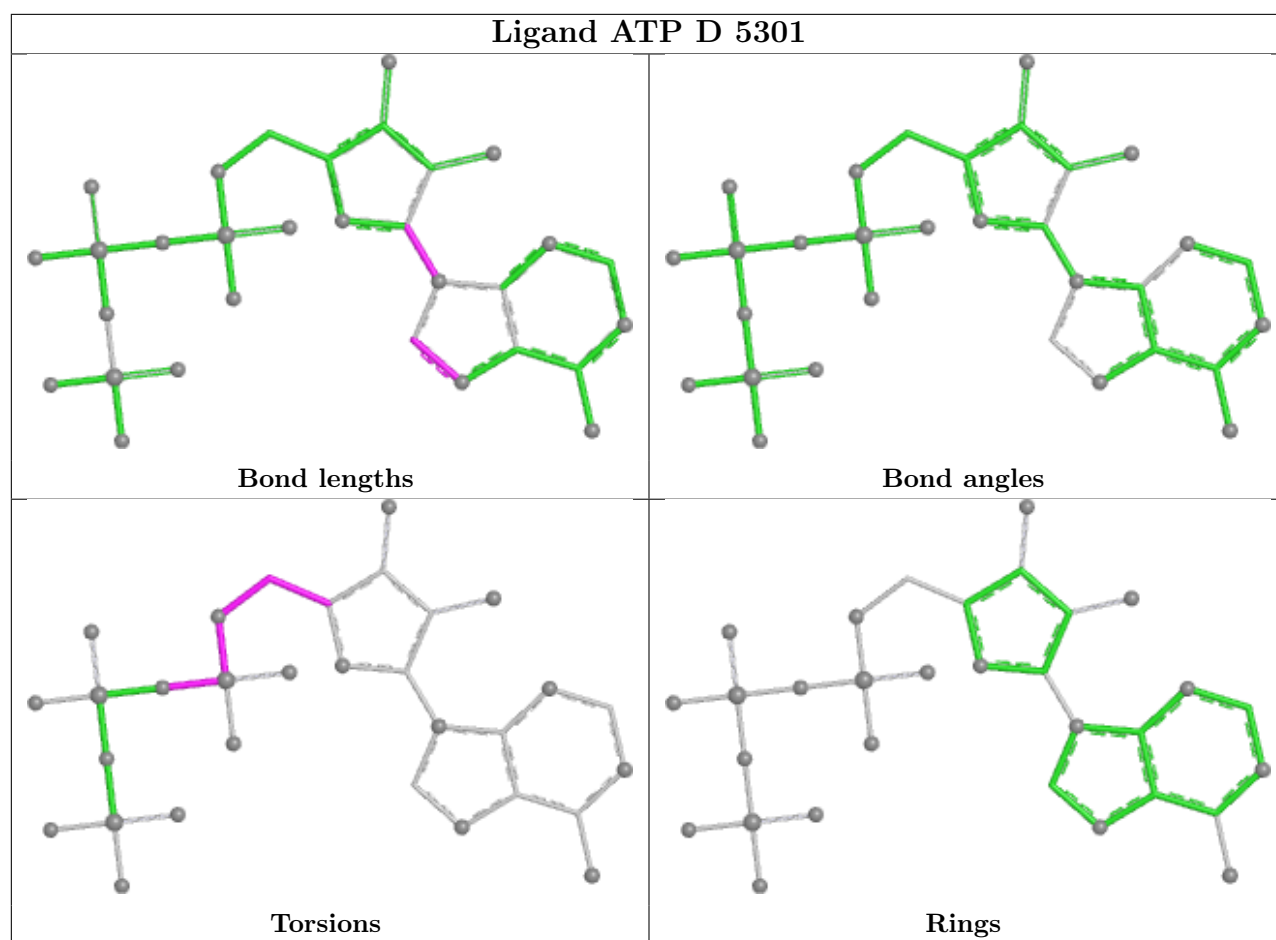


Ligand A1BD2 A 5304









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.

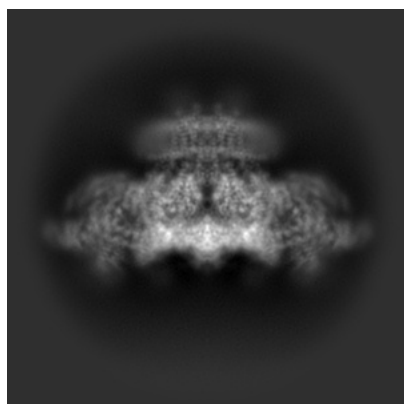
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47387. These allow visual inspection of the internal detail of the map and identification of artifacts.

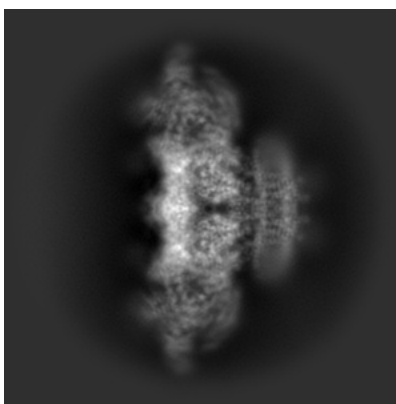
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

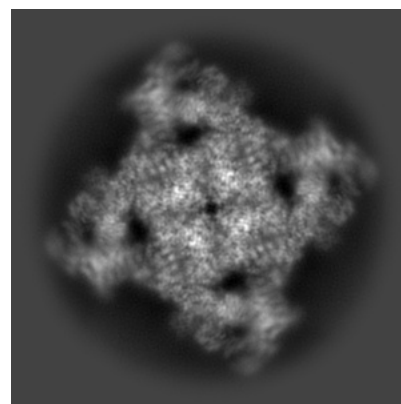
6.1.1 Primary map



X

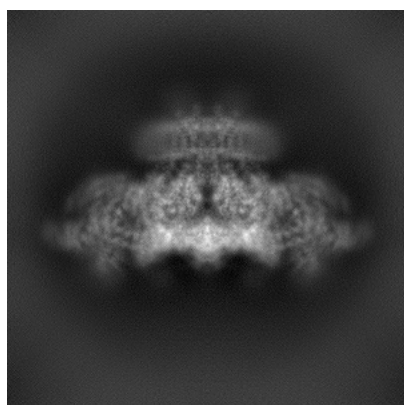


Y

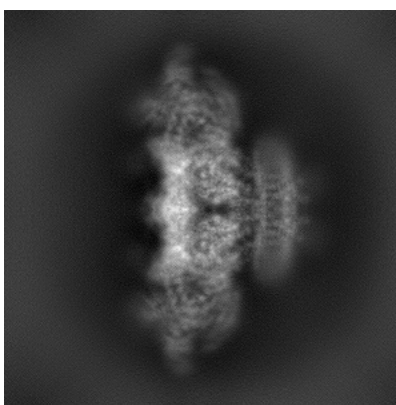


Z

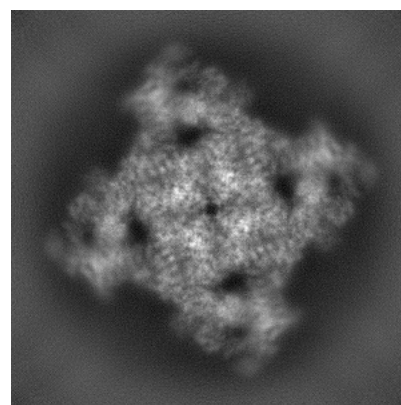
6.1.2 Raw map



X



Y

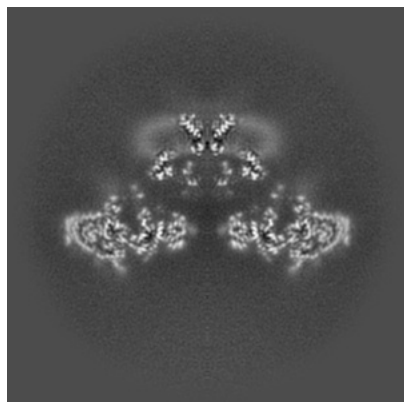


Z

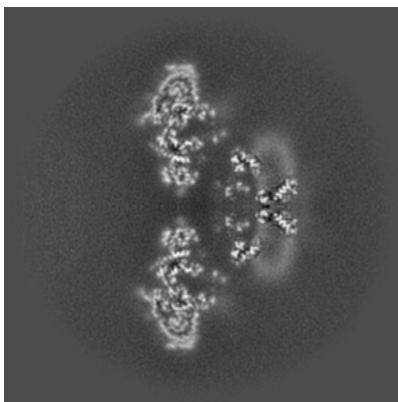
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

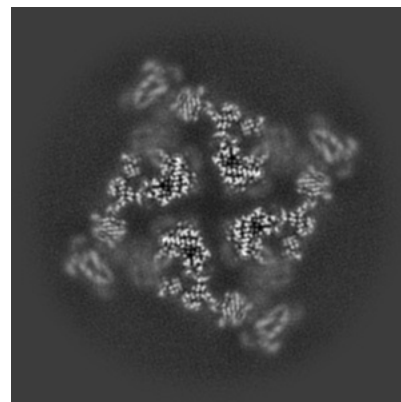
6.2.1 Primary map



X Index: 256

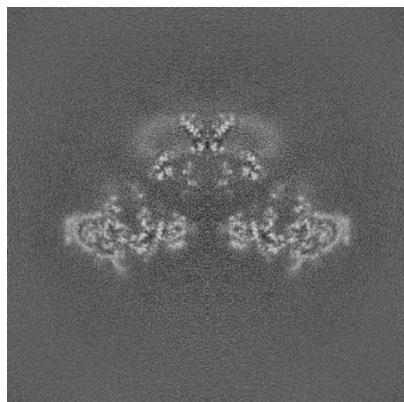


Y Index: 256

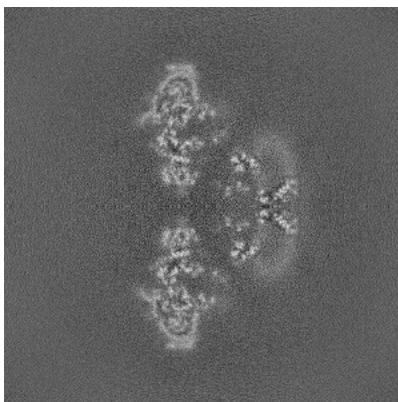


Z Index: 256

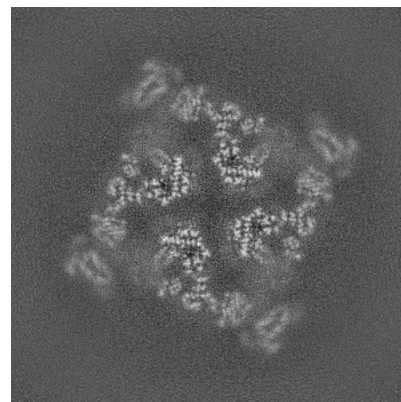
6.2.2 Raw map



X Index: 256



Y Index: 256

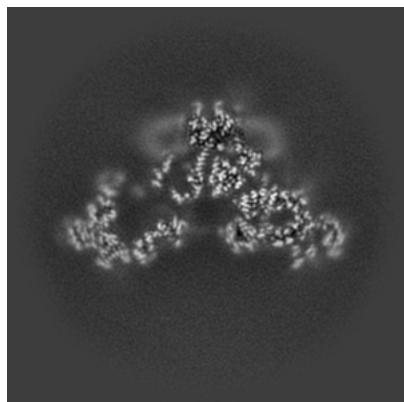


Z Index: 256

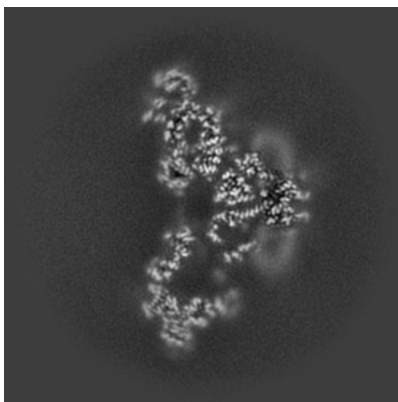
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

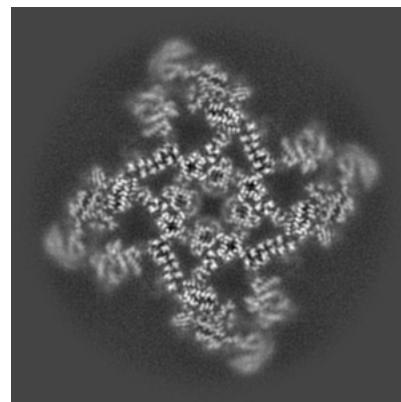
6.3.1 Primary map



X Index: 268

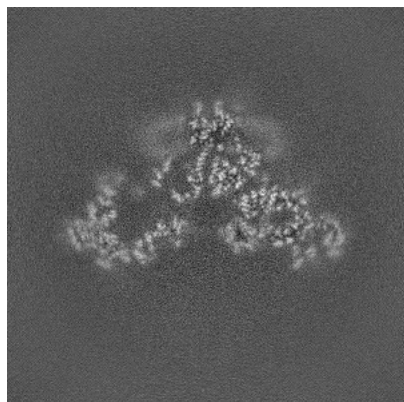


Y Index: 244

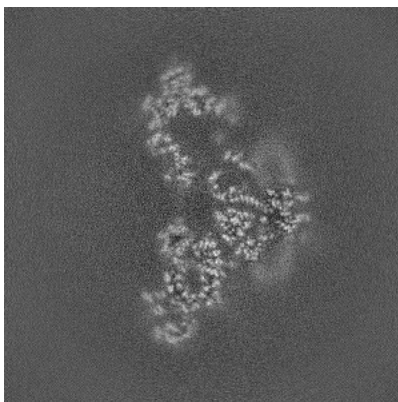


Z Index: 229

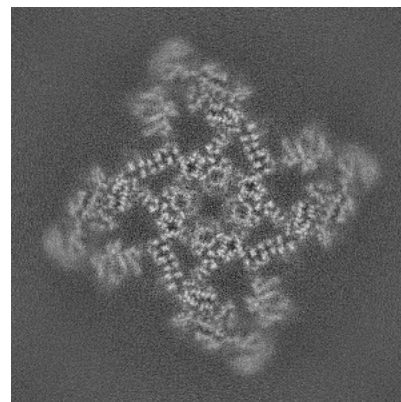
6.3.2 Raw map



X Index: 268



Y Index: 268

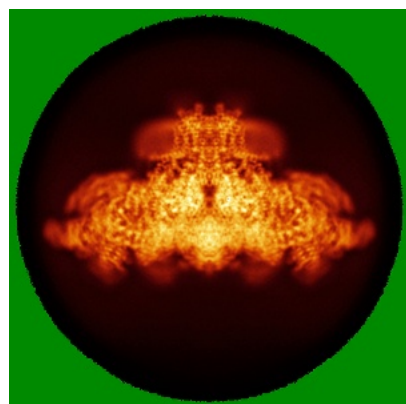


Z Index: 229

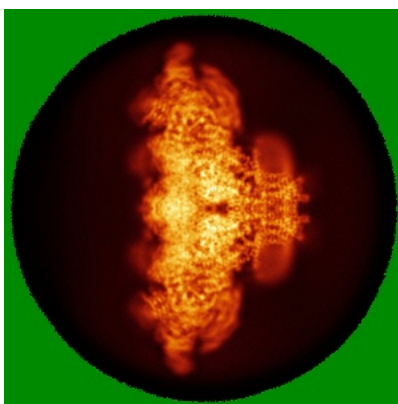
The images above show the largest variance slices of the map in three orthogonal directions.

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

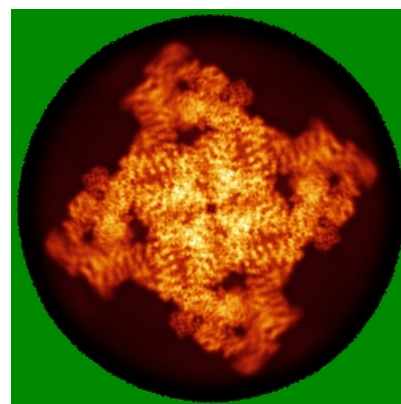
6.4.1 Primary map



X

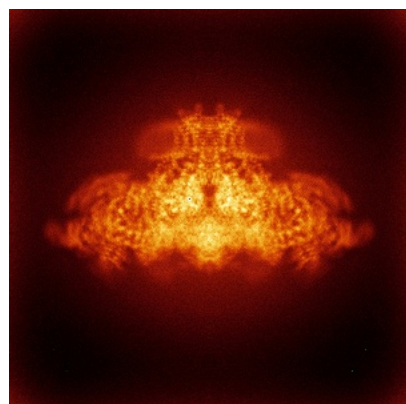


Y

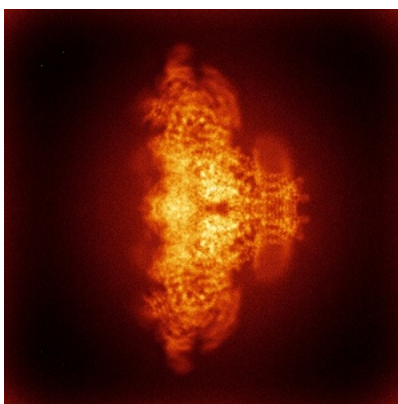


Z

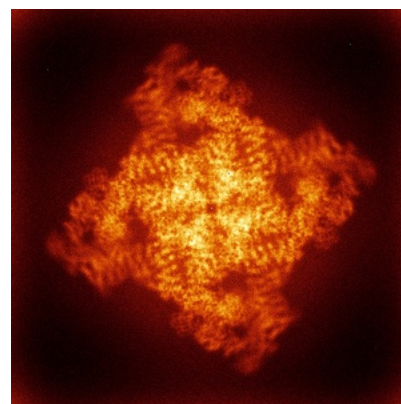
6.4.2 Raw map



X



Y

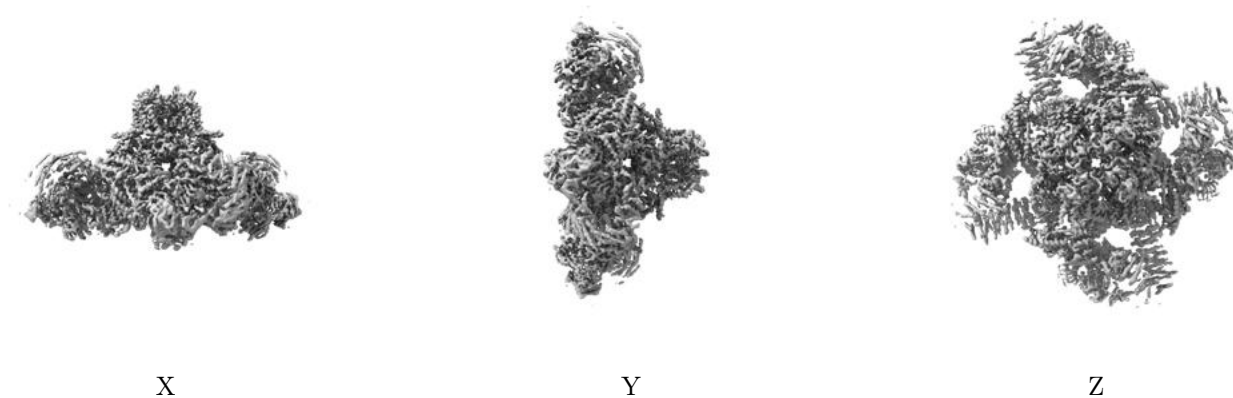


Z

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

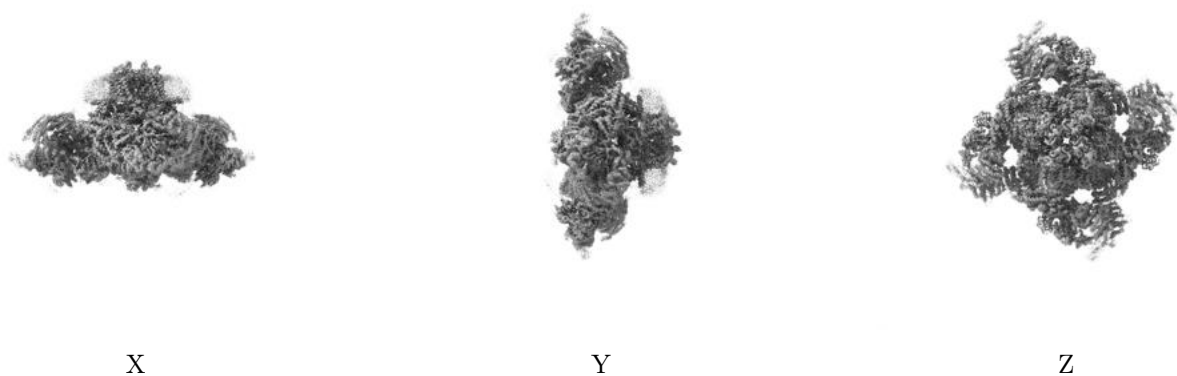
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

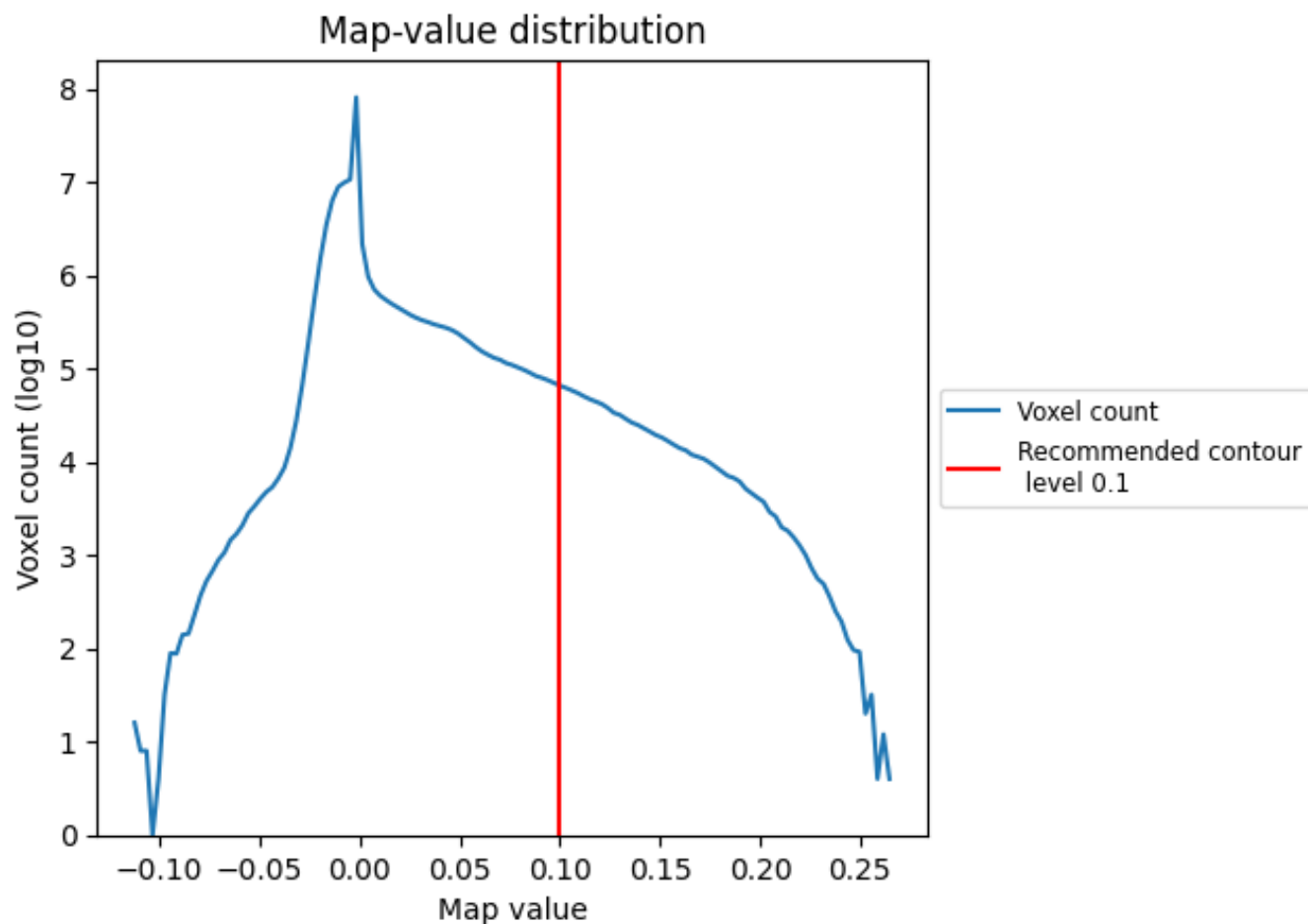
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

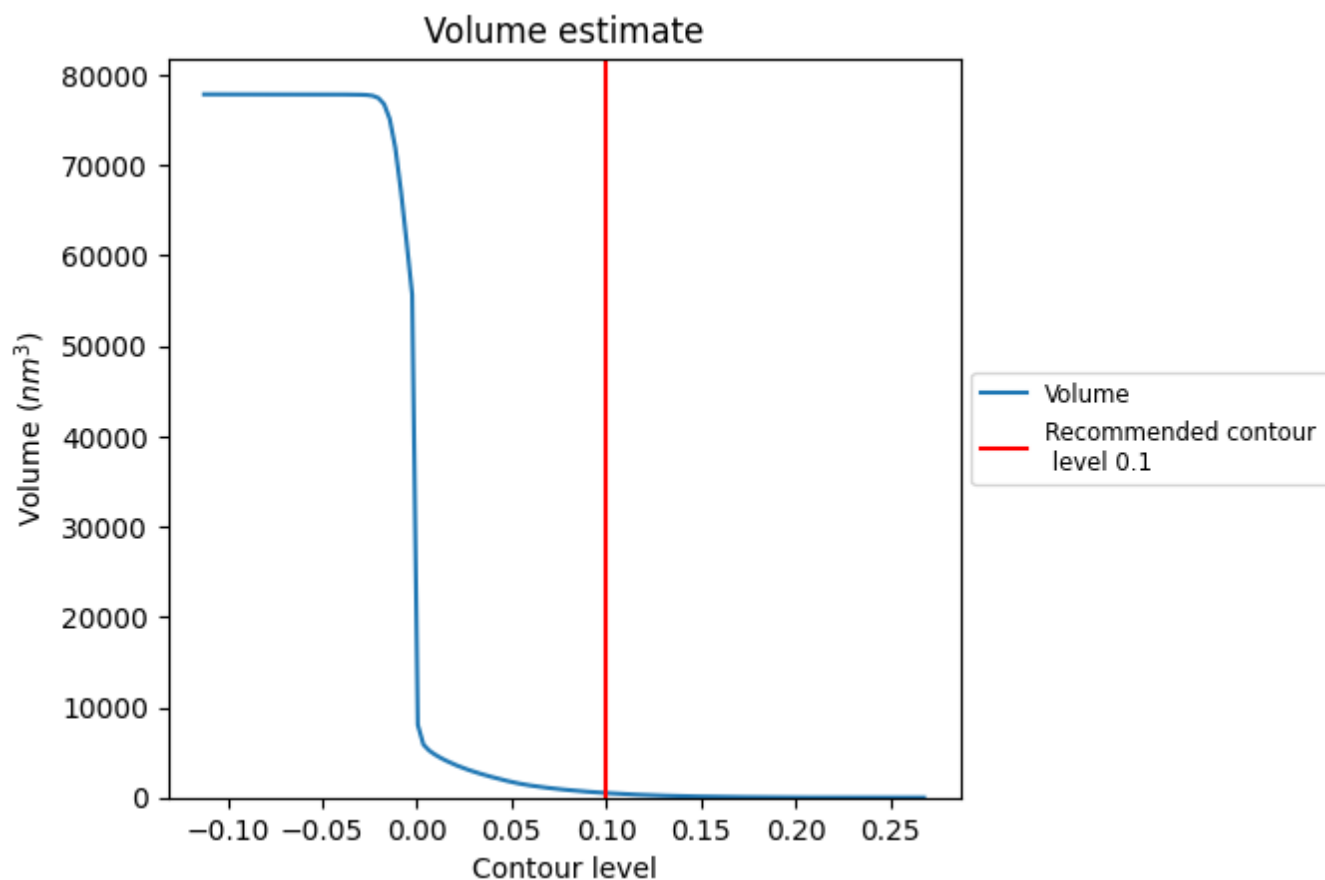
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

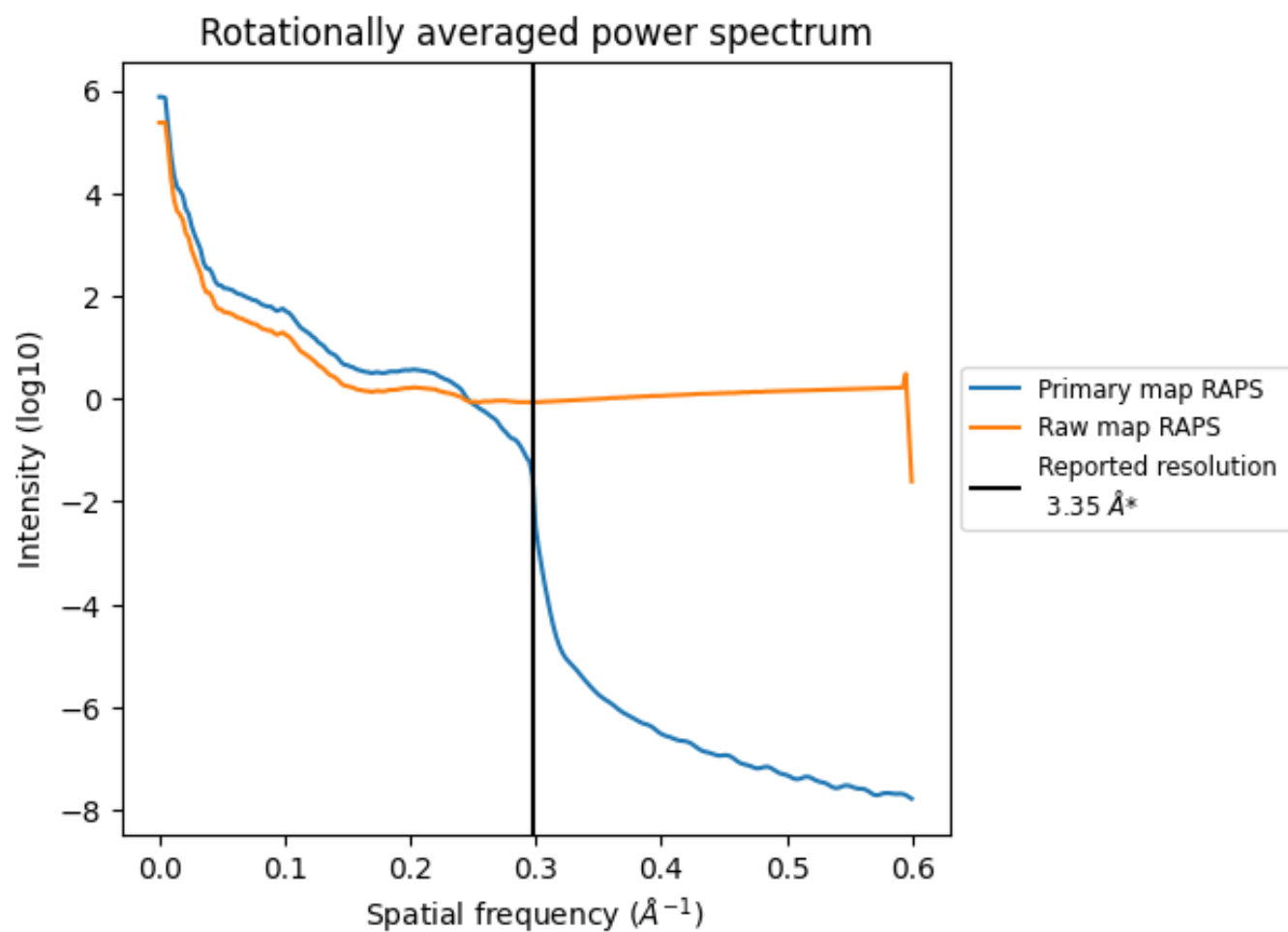
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 502 nm³; this corresponds to an approximate mass of 453 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

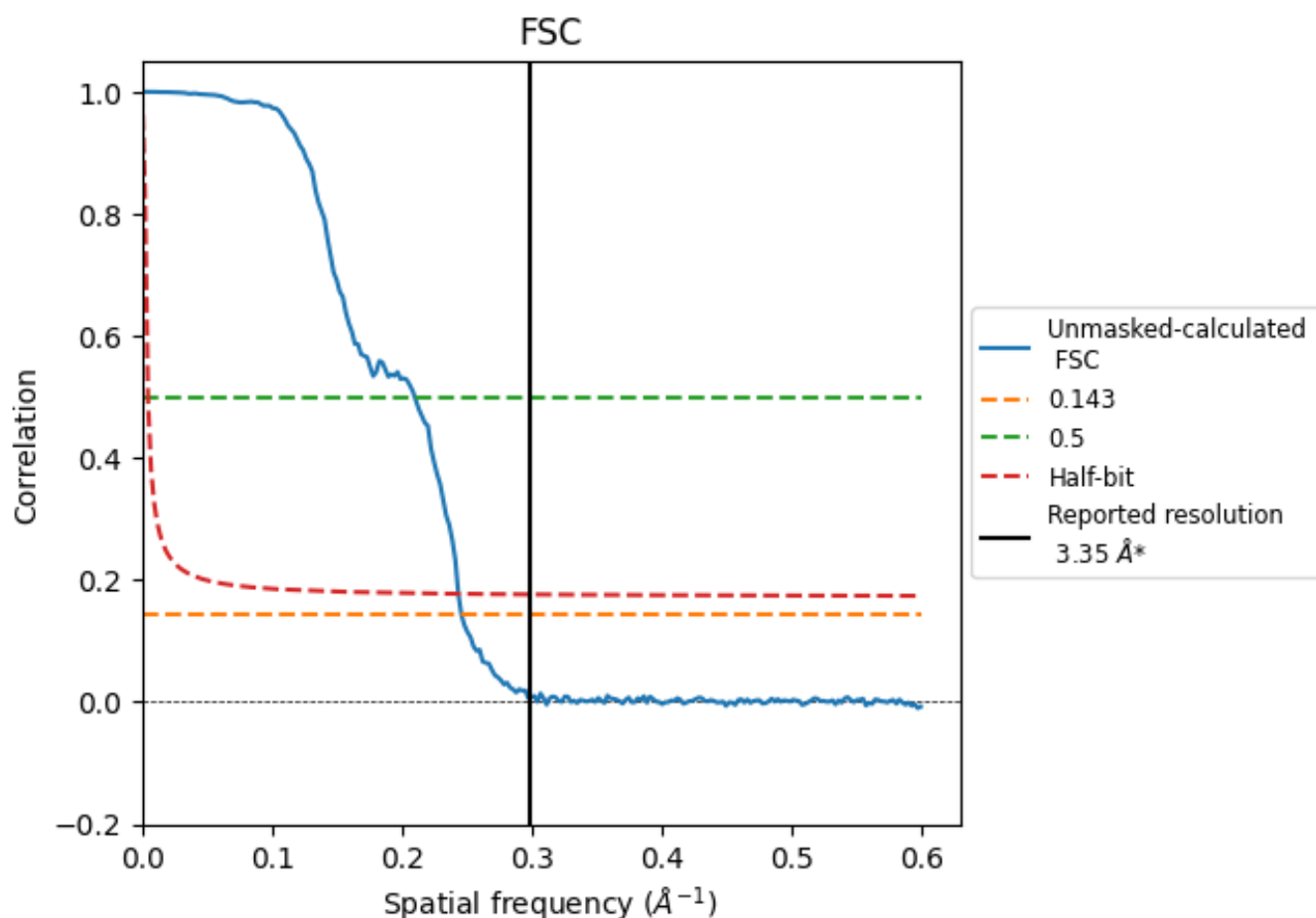


*Reported resolution corresponds to spatial frequency of 0.299 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.299 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

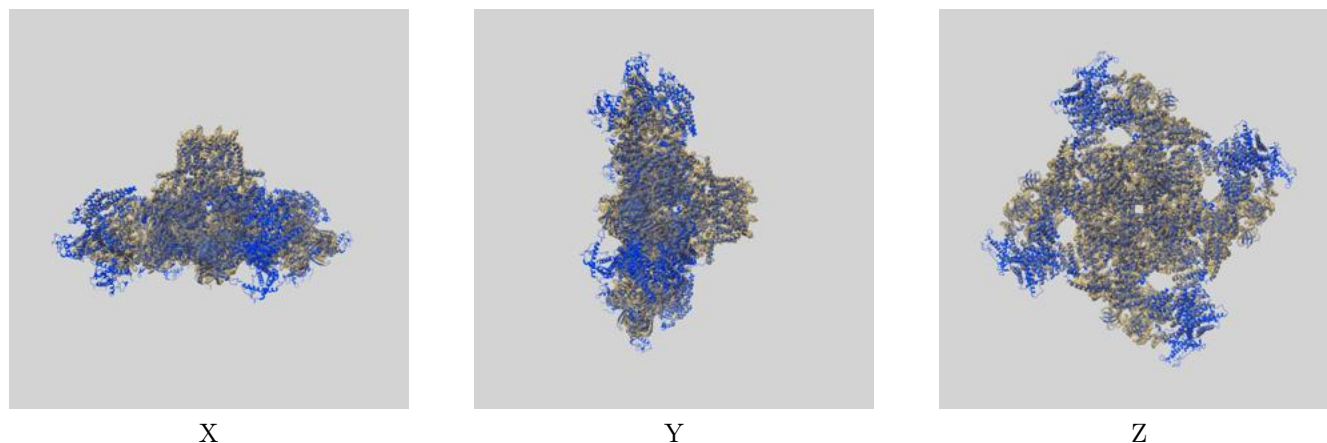
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.35	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.07	4.76	4.11

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.07 differs from the reported value 3.35 by more than 10 %

9 Map-model fit [i](#)

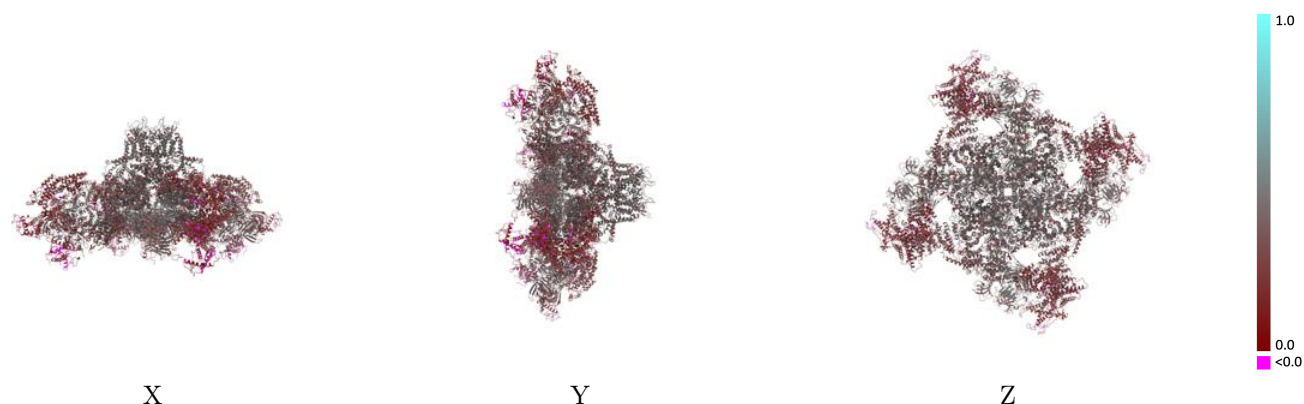
This section contains information regarding the fit between EMDB map EMD-47387 and PDB model 9E1A. Per-residue inclusion information can be found in section [3](#) on page [6](#).

9.1 Map-model overlay [i](#)



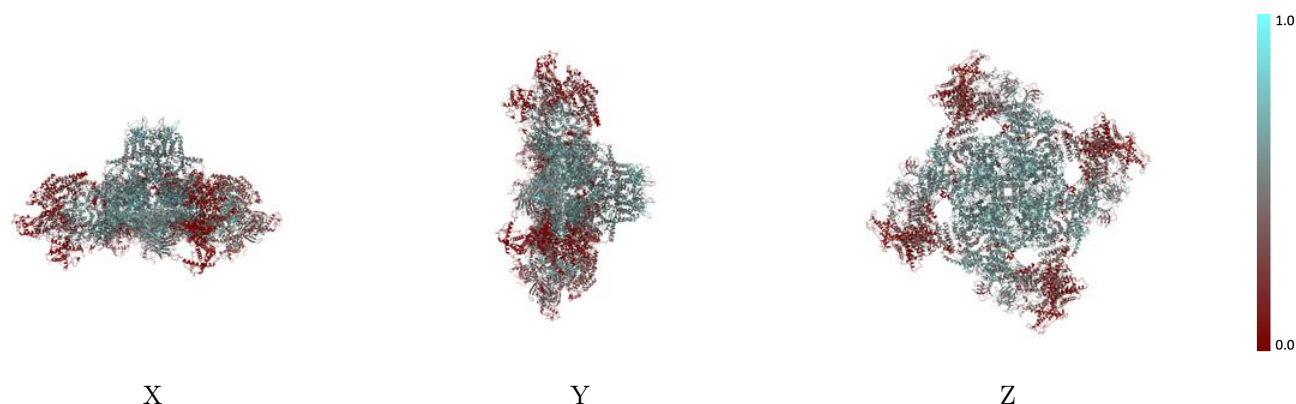
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



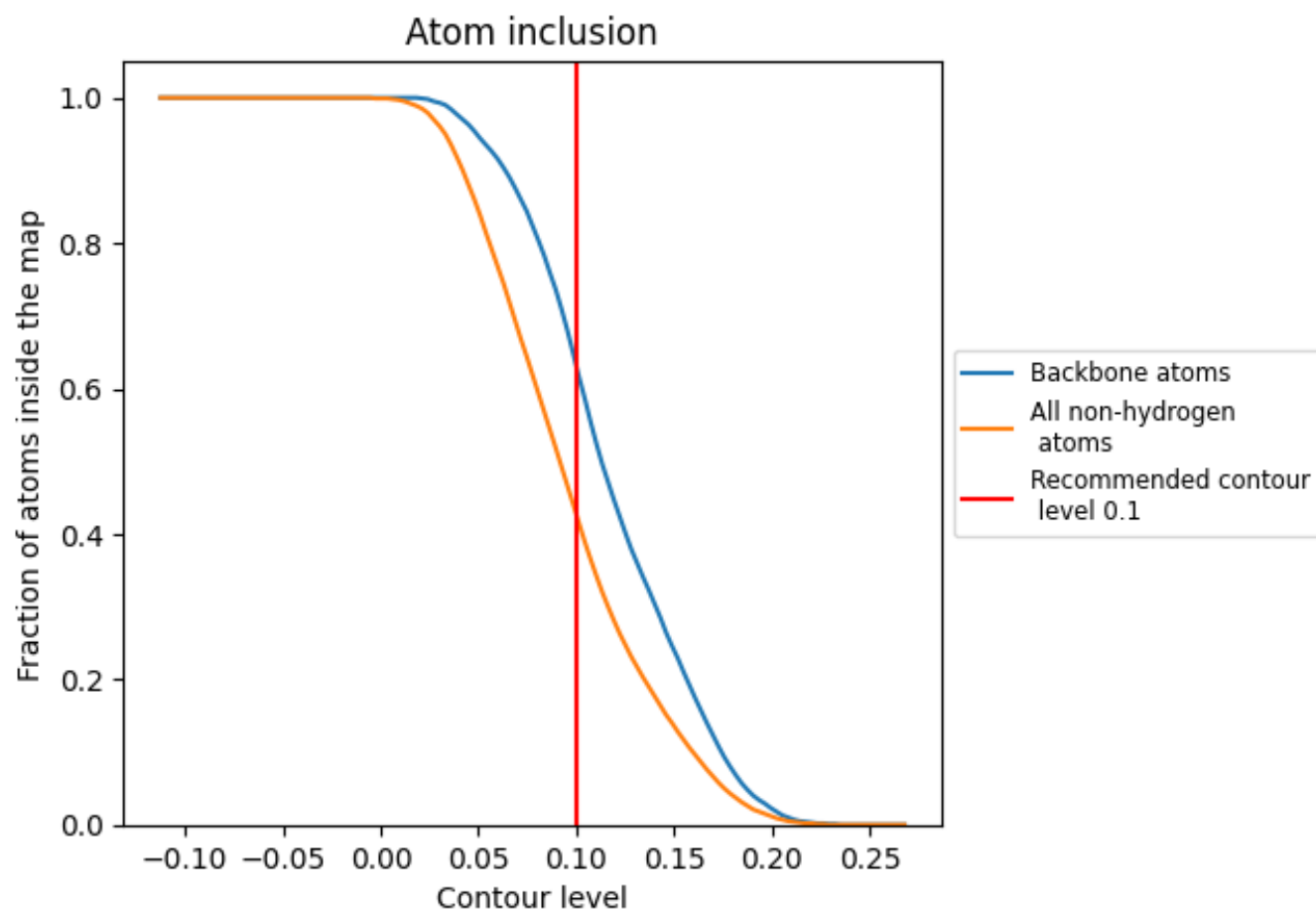
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.1).

9.4 Atom inclusion [i](#)



At the recommended contour level, 63% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4260	0.3280
A	0.4280	0.3280
B	0.4280	0.3270
C	0.4280	0.3270
D	0.4280	0.3270
E	0.3290	0.3760
F	0.3310	0.3770
G	0.3340	0.3760
H	0.3300	0.3750

