



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 07:23 PM UTC

PDB ID : 9E19 / pdb_00009e19
EMDB ID : EMD-47386
Title : Structure of RyR1 in the open state in the presence of pentoxifylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 4.04 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:

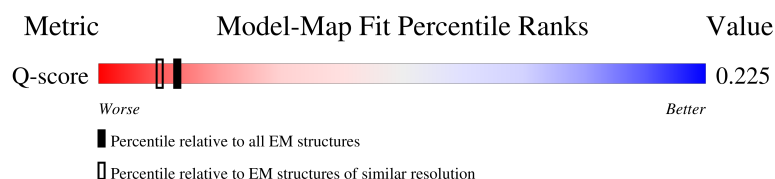
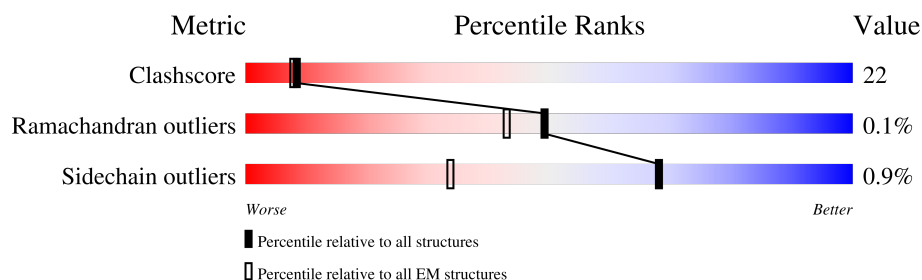
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

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 4.04 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6625 (3.54 - 4.54)

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	

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Mol	Chain	Length	Quality of chain
2	E	108	82% 60%38%..
2	F	108	86% 60%38%..
2	G	108	83% 58%40%..
2	H	108	82% 56%42%..

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144136 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).

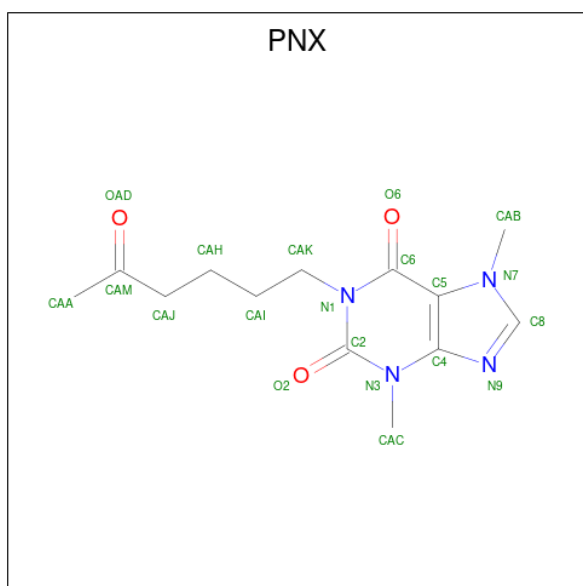
Mol	Chain	Residues	Atoms	AltConf
5	A	1	Total Zn 1 1	0

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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 3,7-DIMETHYL-1-(5-OXOHEXYL)-3,7-DIHYDRO-1H-PURINE-2,6-DIONE (CCD ID: PNK) (formula: C₁₃H₁₈N₄O₃) (labeled as "Ligand of Interest" by depositor).

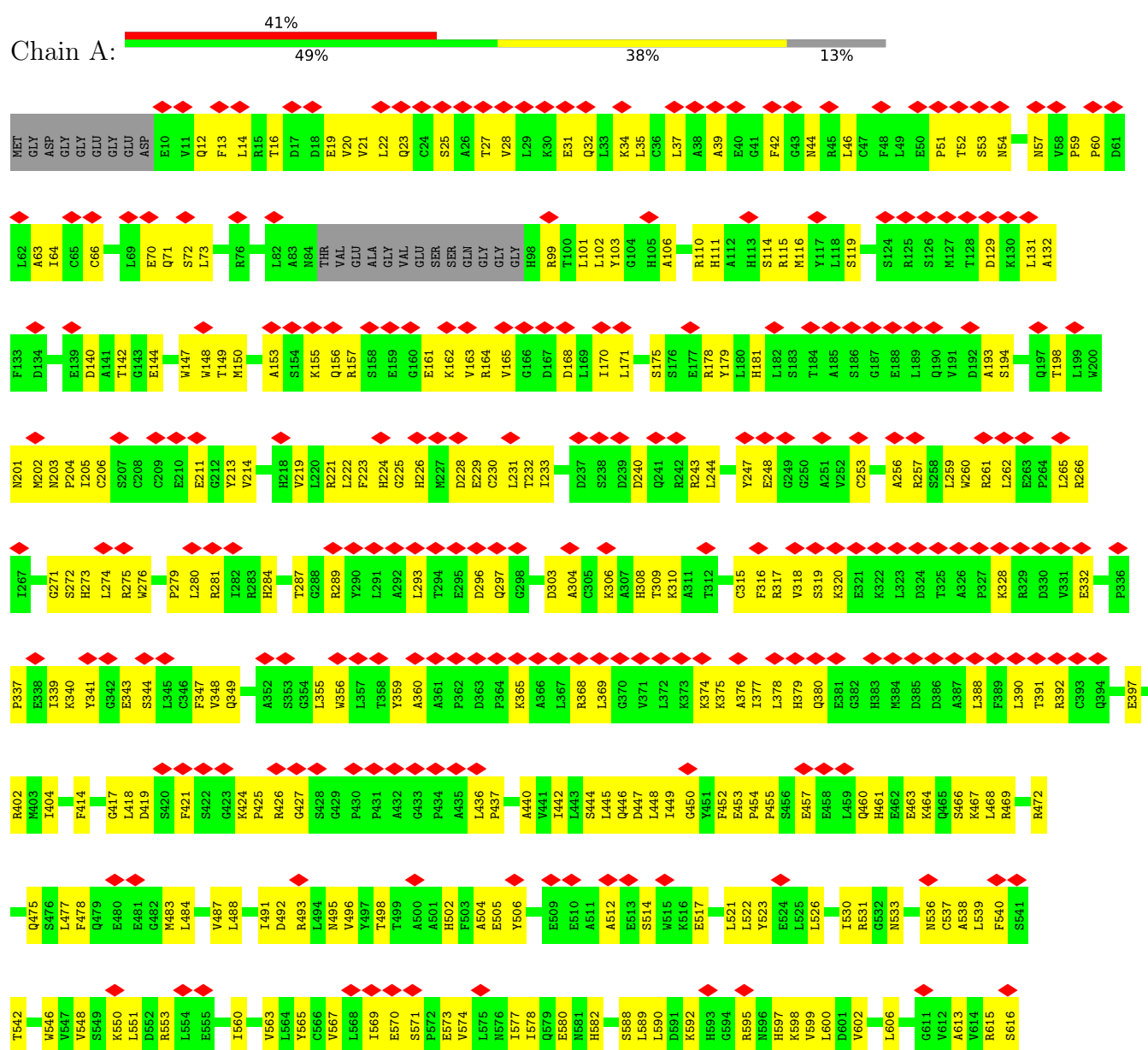


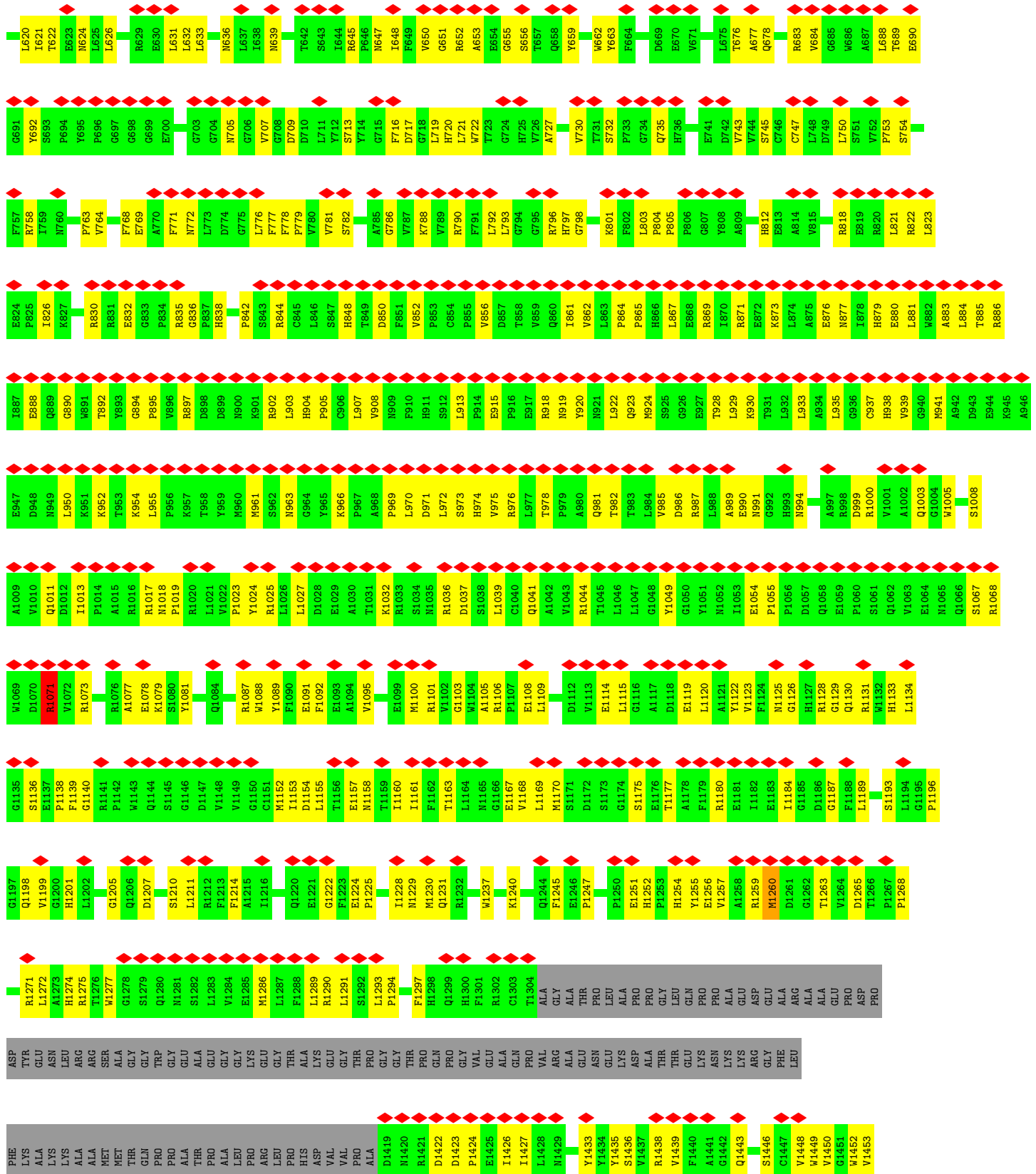
Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			20	13	4	3	
6	B	1	Total	C	N	O	0
			20	13	4	3	
6	D	1	Total	C	N	O	0
			20	13	4	3	
6	C	1	Total	C	N	O	0
			20	13	4	3	

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





S2300	F2235	G2171	P2091	C2021	H1953	GLU	R1797	D1649	A1578	G1517	D1456
A2303	L2236	P2172	Q2092	P2022	R1954	GLU	L1798	I1650	M1579	C1518	Q1459
G2304	C2237	E2175	S2093	L2023	R1955	GLU	A1801	L1651	F1580	D1521	H1460
C2305	Y2238	G2176	L2094	P2024	E1956	GLU	R1808	E1652	S1582	L1522	D1461
L2307	F2239	L2177	Q2095	E2025	D1809	GLU	R1810	S1654	E1583	T1524	M1462
Q2308	C2240	M2178	E2096	I2027	D1810	GLU	K1810	R1656	M1584	G1526	L1463
S2243	S2243	L2179	V2098	L2031	F1961	ASP	R1813	L1657	K1585	M1527	F1464
R2244	S2181	Q2181	M2101	Q2032	R1964	GLU	L1813	D1658	P1589	T1528	D1465
Q2245	L2182	L2182	V2102	A2040	Y1965	GLU	M1814	Q1660	Q1590	F1529	L1466
N2246	G2183	G2183	V2103	L2044	V1966	LYS	L1815	R1661	C1591	T1530	S1467
Q2247	L2185	L2185	A2106	Q2045	D1967	GLU	V1819	T1666	P1592	N1532	K1468
S2249	K2189	K2189	Q2107	Q2045	K1968	ASP	R1820	L1667	P1593	G1533	V1469
M2250	V2190	V2190	E2108	L2046	L1969	GLU	D1821	R1668	R1594	K1534	R1470
F2251	F2191	F2191	S2113	GLU	Q1970	GLU	G1822	L1671	L1595	E1536	A1471
D2252	Y2192	Y2192	L2116	GLY	R1976	GLU	F1748	Q1676	Q1598	N1537	V1472
H2253	Q2193	Q2193	L2116	GLY	Y1977	GLU	P1749	R1676	M1601	T1474	V1474
L2254	H2194	H2194	GLU	GLU	A1978	LYS	P1750	R1676	P1602	T1538	T1475
S2255	P2195	P2195	GLU	GLU	L1980	ASP	G1751	L1676	M1601	M1476	M1476
Y2256	M2198	M2198	PR0	PR0	M1981	ALA	K1753	H1683	V1603	F1539	G1477
L2257	R2199	R2199	GLU	GLU	R1982	GLU	G1754	A1684	S1604	F1540	D1478
L2258	A2200	A2200	GLU	GLU	A1983	LYS	G1755	C1686	S1606	Q1541	E1479
E2259	G2201	G2201	GLU	GLU	F1984	GLU	N1756	GLU	R1607	E1542	Q1480
G2262	H2202	H2202	THR	THR	T1985	GLU	A1757	D1690	M1608	P1544	G1481
L2263	E2205	E2205	LEU	LEU	M1986	ALA	R1758	Q1691	N1545	N1545	N1482
G2264	T2206	T2206	SER	SER	S1987	PRO	R1759	Q1692	T1546	T1546	V1483
L2265	V2207	V2207	ARG	ARG	L1988	GLU	H1760	Q1693	K1547	K1547	H1484
G2266	M2208	M2208	LEU	LEU	M1989	GLY	G1761	L1694	L1548	L1548	S1485
Q2267	E2209	E2209	ARG	ARG	G1852	GLU	L1762	L1695	F1549	F1549	S1486
Q2268	V2210	V2210	SER	SER	L1853	LYS	P1763	H1696	E1616	P1550	L1487
G2269	M2211	M2211	LEU	LEU	F1854	GLU	G1764	A1697	T1617	A1551	L1486
S2270	L2212	L2212	LEU	LEU	E1857	ASP	V1765	L1698	R1618	V1552	K1488
T2271	N2213	N2213	GLU	GLU	D1858	GLU	R1772	D1700	R1619	F1553	C1489
P2272	V2214	V2214	THR	THR	V1859	GLU	P1773	A1701	A1620	V1554	S1490
L2273	L2215	L2215	VAL	VAL	K1860	GLU	P1774	H1702	C1621	L1555	N1491
G2216	Q2216	Q2216	ARG	ARG	M1865	LYS	H1775	L1703	E1622	P1556	C1492
Q2217	G2217	G2217	LEU	LEU	L1866	GLU	S1778	P1704	R1623	T1557	Y1493
G2218	G2218	G2218	VAL	VAL	E1867	GLU	P1779	G1705	L1624	H1558	M1494
E2219	T2220	T2220	LYS	LYS	P1868	GLU	P1780	P1706	G1625	Q1559	V1495
T2220	G2220	G2220	LYS	LYS	E1869	GLU	C1781	L1707	W1626	N1560	V1496
E2221	S2221	S2221	GLU	GLU	V1870	GLU	F1782	R1708	A1627	T1562	D1499
Q2222	L2222	L2222	LYS	LYS	T1871	GLU	V1783	G1710	V1628	Q1563	F1500
L2223	T2223	T2223	PR0	PR0	E1873	GLU	A1785	Y1711	Q1629	E1565	V1501
F2225	R2224	R2224	GLU	GLU	E1874	GLU	L1786	D1713	C1630	L1566	S1502
P2226	G2159	G2159	GLU	GLU	GLU	GLU	P1787	L1714	Q1631	G1567	P1503
K2227	L2159	L2159	LEU	LEU	M1939	GLU	A1788	I1716	D1632	K1568	Q1505
N2228	Q2161	Q2161	PR0	PR0	L1943	GLU	L1786	E1721	A1638	Q1569	Q1506
M2229	Q2161	Q2161	ALA	ALA	E1944	GLU	P1787	S1722	H1640	K1570	G1507
V2229	S2164	S2164	GLU	GLU	Y1945	GLU	A1789	I1723	I1641	I1571	R1508
S2231	L2165	L2165	E2088	E2088	Q1949	GLU	G1790	A1792	E1644	M1573	T1509
C2232	M2170	M2170	K2089	K2089	E1950	GLU	V1791	S1722	N1645	P1574	S1510
R2234	K2090	K2090	E2015	E2015			A1792	C1724	R1646	S1576	H1511
			A2016	A2016			P1795		M1648	A1577	T1512
			D2017	D2017			A1794				D1513
			E2018	E2018			P1795				L1514
			E2019	E2019			A1796				V1515
			D2020	D2020							I1516

G3113	K3114	G3115	S3116	GLN	ALA	ARG	THR	GLN	VAL	K3123	G3124	A3061	G3125	A3062	V3064	G3126	G3127	N3128	N3129	G3130	H3069	I3131	T3132	T3133	L3071	A3072	R3134	A3135	S3074	L3136	L3075	L3137	P3138	L3139	L3140	T3079	T3141	V3080	T3142	K3081	F3144	K3082	G3145	H3146	L3147	A3148	K3086	K3149	L3087	V3088	K3089	L3150	Q3151	F3152	G3153	L3154	K3093	S3094	F3095	F3096	L3157	L3158	L3159	S3100	L3160	E3101	D3102	E3104	K3105	K3106	V3107	E3108	N3109	L3172	R3111	S3174
E2992	Q2993	E2994	L2995	K2996	F2997	A2998	A2999	K3000	I3001	L3002	L3003	P3004	L3005	L3006	N3007	Q3008	Y3009	F3010	T3011	N3012	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	N3038	I3039	T3040	L3041	L3042	F3043	C3044	K3045	L3046	A3047	A3048	L3049	V3050	R3051																	
H3052	R3053	V3054	S3055	L3056	F3057	G3058	T3059	D3060	A3061	P3062	A3063	V3064	G3065	N3066	C3067	L3068	H3069	I3070	L3071	A3072	R3073	S3074	L3075	D3076	A3077	R3078	T3079	V3080	K3081	F3144	K3082	S3083	G3084	P3085	E3086	L3087	V3088	K3089	A3090	G3091	L3092	R3093	S3094	F3095	F3096	A3099	S3100	E3101	D3102	E3104	K3105	K3106	V3107	E3108	N3109	L3172	R3111	S3174																		
E2439	I2443	K2447	G2448	A2449	A2450	R2451	I2452	I2453	R2454	L2457	R2458	S2459	L2460	L2463	D2464	D2465	L2466	T2469	I2470	S2471	L2472	P2473	L2474	Q2475	I2476	P2477	T2478	L2479	G2480	K2481	D2482	G2483	A2484	L2485	V2486	Q2487	P2488	K2489	M2490	S2491	A2492	S2493	F2494	D2497	H2498	K2499	S2500	M2502	F2505	L2506																										
D2507	R2508	V2509	Y2510	G2511	I2512	E2513	N2514	Q2515	D2516	T2517	L2518	L2519	H2520	V2521	L2522	D2523	V2524	G2525	F2526	L2527	P2528	D2529	M2530	L2531	A2532	L2533	A2534	S2535	L2536	D2537	T2538	A2539	T2540	F2541	S2542	T2543	T2544	E2545	M2546	A2547	L2548	N2551	R2552	Y2553	L2556	A2557	V2558	L2559	P2560	L2561	T2562	T2563	K2564	S2565	A2566	F2569																				
A2570	G2571	T2572	E2573	H2574	R2575	A2576	I2577	M2578	V2579	D2580	S2581	N2582	L2583	H2584	T2585	R2588	L2589	S2590	R2591	G2592	R2593	S2594	L2595	T2596	K2597	A2598	Q2599	R2600	D2601	V2602	L2603	E2604	D2605	C2606	L2607	M2608	A2609	S2610	C2611	R2612	Y2613	L2614	R2615	P2616	S2617	M2618	L2619	Q2620	H2621	L2622	L2623	R2624	R2625	L2626	V2627	F2628	D2629	V2630																		
P2631	I2632	L2633	N2634	E2635	F2636	A2637	K2638	M2639	P2640	L2641	K2642	L2643	L2644	T2645	N2646	H2647	Y2648	E2649	C2651	W2652	K2653	Y2654	C2656	L2657	P2658	T2659	G2660	W2661	A2662	N2663	P2664	G2665	V2666	T2667	E2668	E2669	E2670	E2671	L2672	H2673	L2674	T2675	R2676	K2677	L2678	P2679	W2680	G2681	L2682	F2683	D2684	S2685	L2686	A2687	H2688	K2689	K2690																			
Y2691	D2692	Q2693	E2694	L2695	Y2696	R2697	M2698	A2699	M2700	P2701	C2702	L2703	I2706	A2707	G2708	A2709	L2710	P2711	P2712	D2713	Y2714	Y2715	D2716	A2717	S2718	Y2719	S2720	S2721	K2722	A2723	E2724	LYS	ALA	THR	VAL	ASP	ALA	GLY	N2734	F2735	D2736	P2737	P2738	P2739	E2741	T2742	L2743	N2744	V2745	L2746	L2747	P2748	E2749	K2750	L2751																					
D2752	S2753	F2754	I2755	N2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	P2768	E2769	K2770	I2771	Q2772	N2773	N2774	W2775	S2776	Y2777	G2778	E2779	N2780	S2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	T2792	P2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	R2805	R2806	W2807	P2808	L2809	K2810	E2811																	
S2812	L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	T2822	I2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	THR	ARG	GLY	LYS	LYS	THR	LYS	ILE	SER	GLN	THR	ALA	GLN	L2804	LYS	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	N2881	Y2882	H2883	N2884	T2885	W2886	Q2887	R2888	K2889	K2890	K2891	E2892	E2893	L2894	E2895	A2896	F2897	Q2898	F2899	L2899	Q2900	L2901	H2902	P2903	L2904	L2905	V2906	P2907	P2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	R2917	R2918	R2919	K2920	E2921	K2922	A2923	Q2924	E2925	L2926	K2927	K2928	F2929	L2930	Q2931																
K2932	N2933	G2934	Y2935	L2936	V2937	T2938	R2939	GLY	LEU	LYS	ASP	MET	GLU	L2946	D2947	T2948	S2949	S2950	T2951	E2952	K2953	R2954	F2955	A2956	P2957	Q2958	F2959	L2960	Q2961	Q2962	L2963	K2964	R2965	W2966	D2968	L2969	S2970	Q2971	E2972	F2973	T2974	A2975	H2976	L2977	Y2978	A2979	V2980	L2981	S2982	S2983	Q2984	R2985	K2986	V2986	E2987	K2988	S2989	P2990	H2991																	
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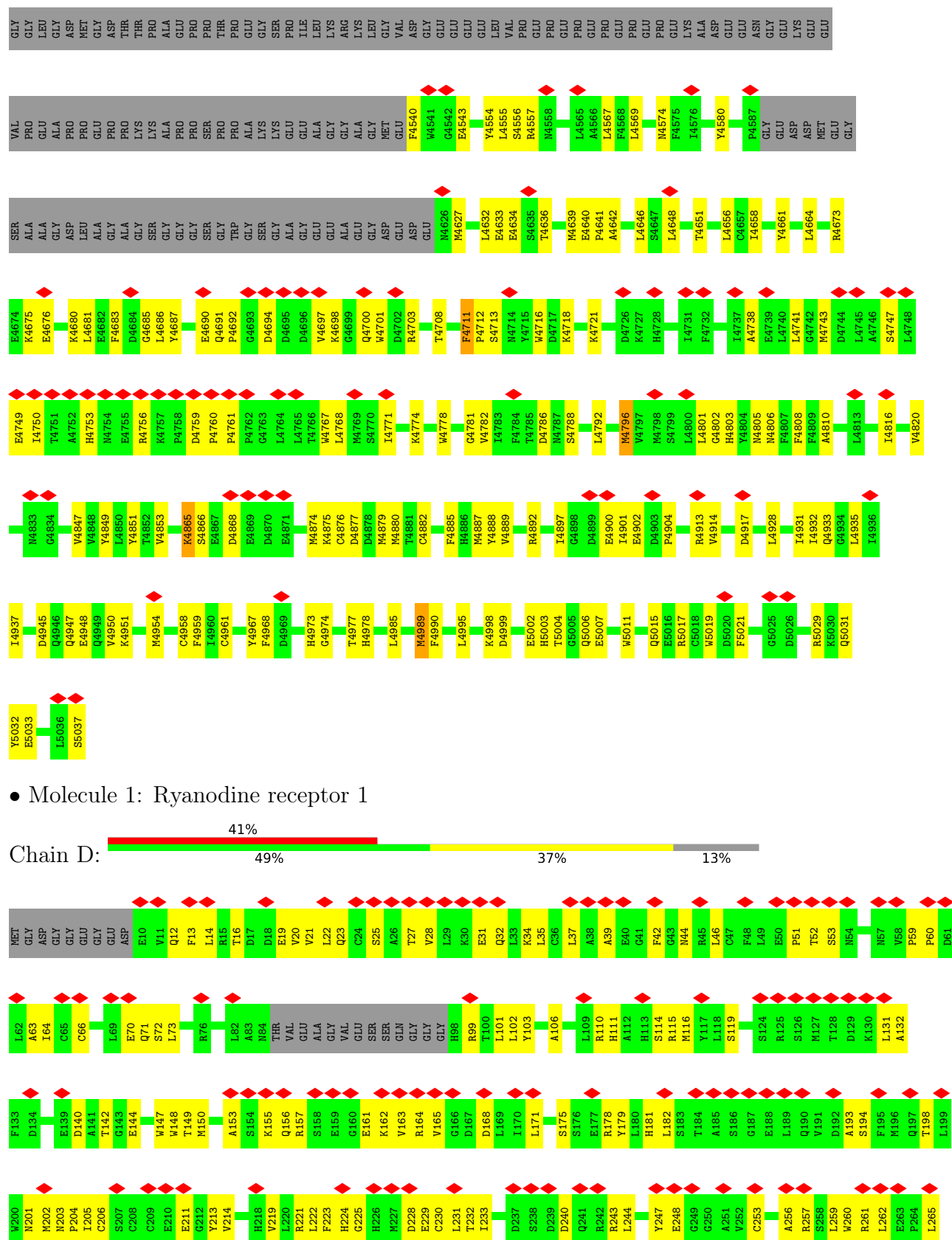
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L62	A63	I64	C65	C66	F67	T68	L69	E70	Q71	S72	L73	R76	N84	THR	VAL	GLU	ALA	GLY	VAL	GLU	SER	SER	GLN	R164	A26	GLY	GLY	H98	R99	T100	L101	L102	Y103	G104	H105	A106	I107	R110	H111	A112	H113	S114	R115	M116	Y117	L118	S119	R125	S126	M127	T128	D129	K130	L131	A132	F133		
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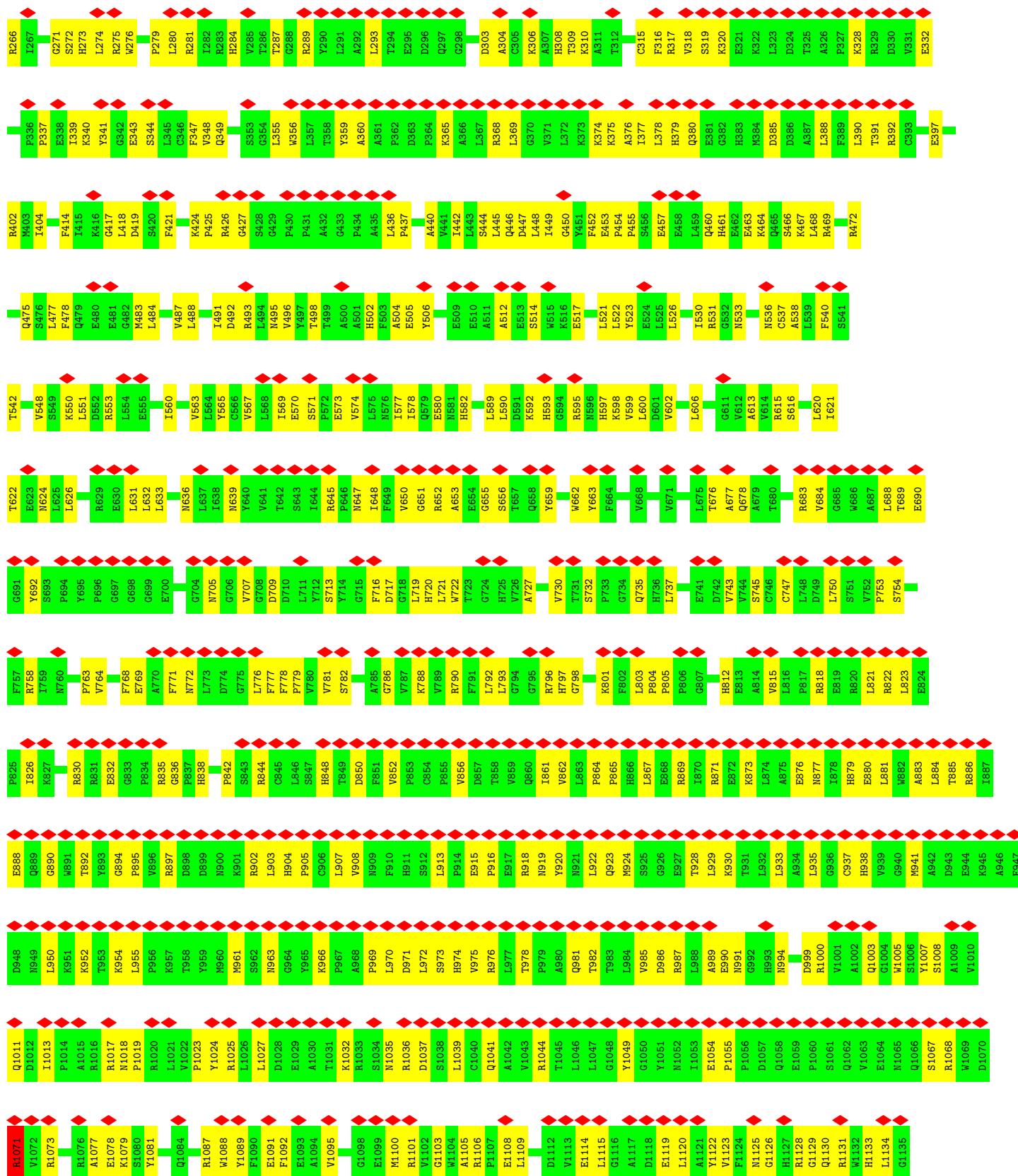
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P1704	Q1559	Q1560		R1438		ASP	ASP	LEU	E1176	E1114	L1048	T982
P1706	L1624	V1495		V1439		ALA	ALA	ALA	T1177	L1115	Y1049	T983
L1707	G1625	W1496		F1440		PRO	PRO	PRO	G1176	G1116	G1050	L984
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G1710	F1628	F1564		V1501		GLN	GLN	PRO	R1180	E1119	I1053	R987
	E1565	E1565		S1502		PRO	PRO	ALA	E1181	L1120	E1054	L988
	L1566	G1567		P1503		ALA	ALA	GLU	A1121	Y1122	P1056	A989
	Q1567	K1568		Q1504					E1183	E1054	D1057	E990
	Q1569	Q1506		Q1507					I1184	F1124	Q1058	G992
												H993
												N994
												R998

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A2637	A2576	I2512	E2449	G2375	Q2308	S2243	Q2180	Q2095	L2023			
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	G3304		E3194	E3184	K3123	P3062	L3003	Y2883	T2822	T2762	C2702
	L3365		K3185	L3186	G3124	V3065	L3005	N2884	E2824	H2763	L2703
	R3366		L3187	R3187	V3125	N3066	I3006	T2885	E2825	E2764	I2706
	K3367		L3245		G3126	C3067	N3007	W2886	A2826	K2765	A2707
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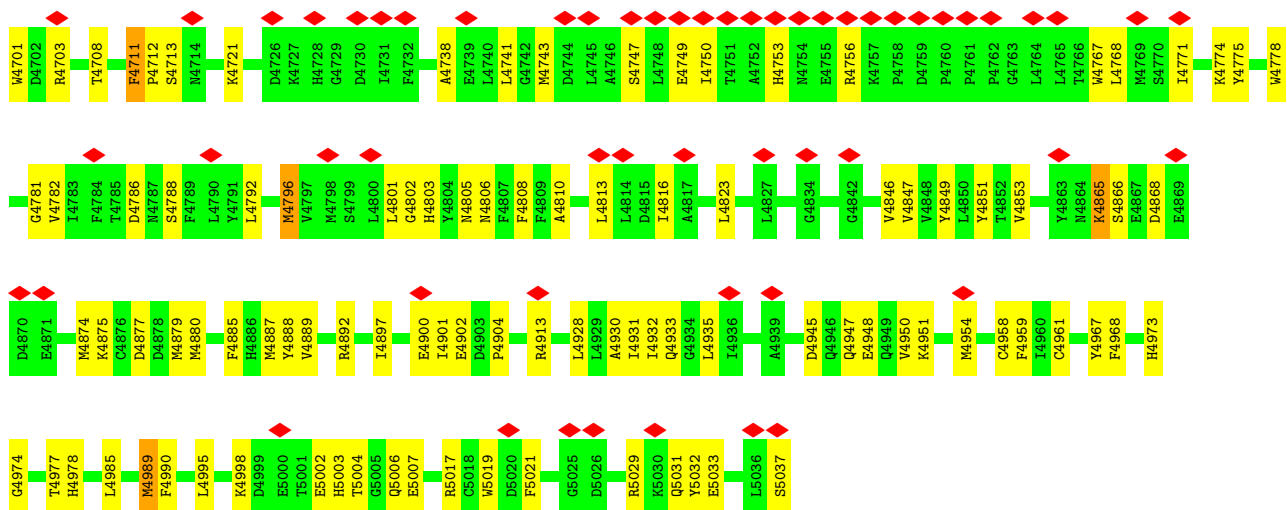




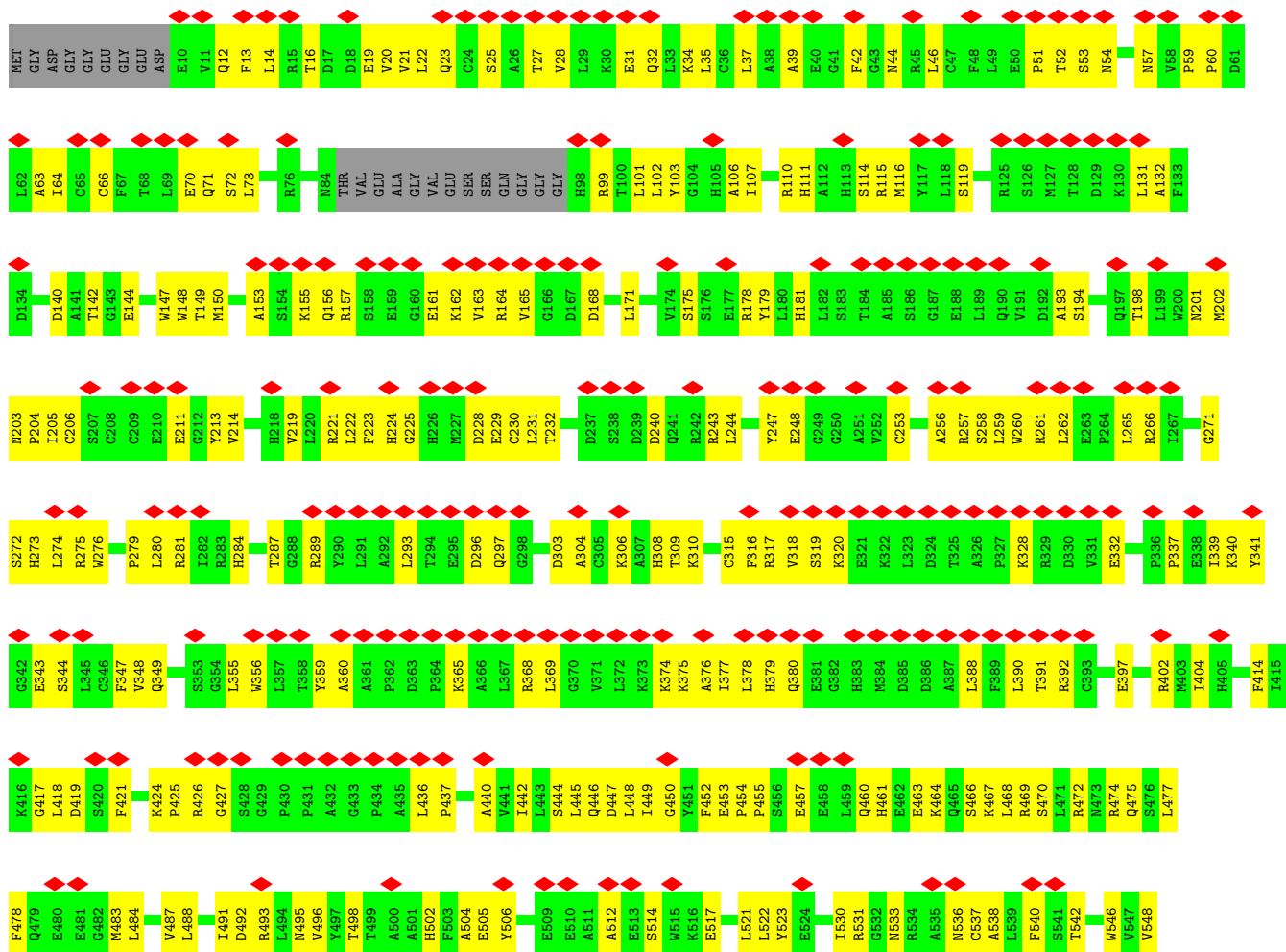
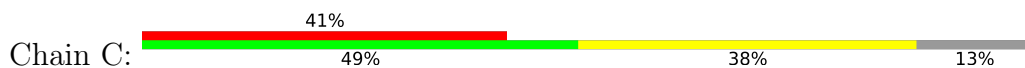


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LYS	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	ASP	GLN	GLU	ARG	LYS	LYS	R3498	R3499	D3501	R3502	Y3503	S3504	V3505	Q3506	T3507	S3508	L3509	T3510	V3511	A3512	T3513	L3514	K3515	K3516	K3517	L3518	L3522	N3523	N3524	C3525	A3526	P3527	T3528	D3529	Q3530	L3531	L3532	N3533	N3534	L3535	A3536	K3537	T3538	R3539	Y3540	A3541																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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ALA	ARG	THR	GLN	VAL	K3123	G3124	G3125	G3126	H3128	G3127	T3130	T3131	T3132	T3133	G3134	A3135	L3136	L3137	P3138	V3139	L3140	T3141	T3142	L3143	F3144	Q3145	H3146	I3147	A3148	Q3149	H3150	Q3151	F3152	G3153	D3154	L3155	F3156	L3157	L3158	D3159	D3160	V3161	Q3162	G3166	F3167	T3168	L3169	Q3170	S3171	Y3173	S3174	L3175	G3176	T3177	T3178	K3179																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								





• Molecule 1: Ryanodine receptor 1





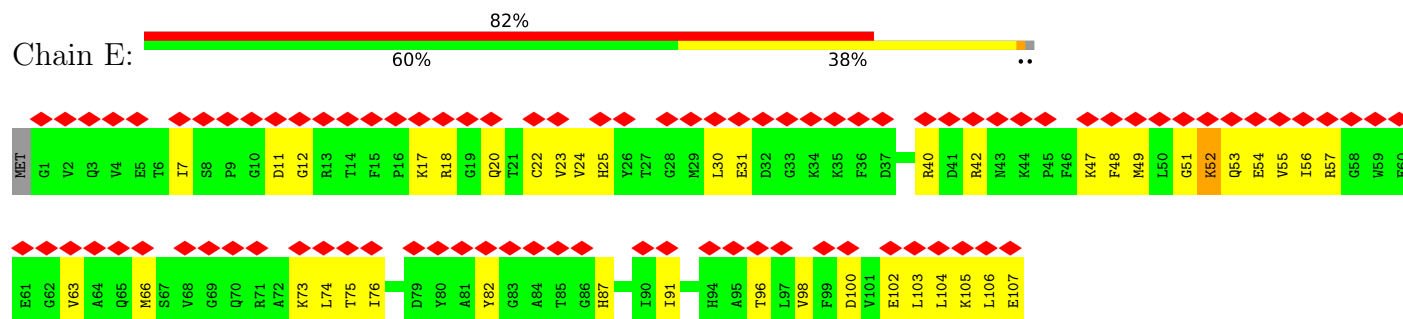


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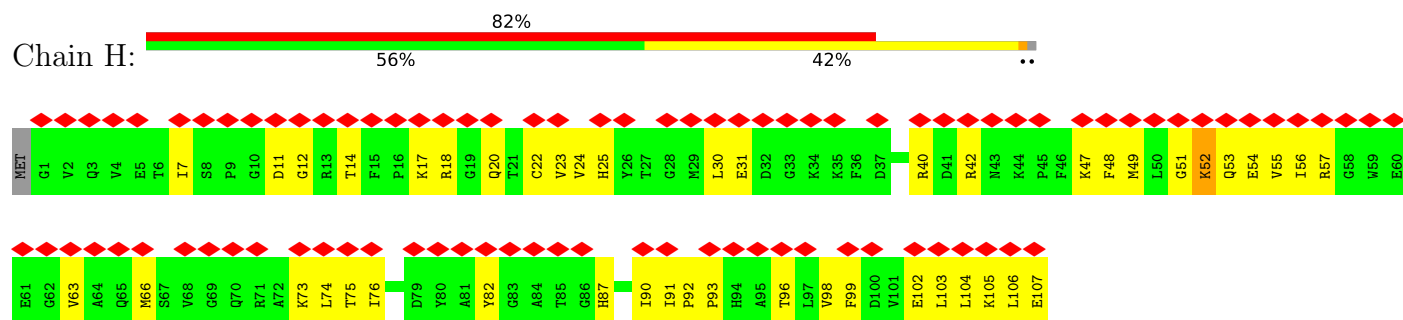
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				E3598	S3477	L3411	P3294	L3232	L3232	L3232
				V3599	T3538	L3412	A3295	L3233	L3233	L3233
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		S4866	L4755	E4685	GLY	GLY	GLY	GLY	GLY	THR	GLY	F4103	E4032	E4032
		E4867	L4756	L4686	GLY	GLY	GLY	GLY	GLY	THR	GLY	T4104	V4035	V4035
		D4868	L4757	Y4687	GLY	GLY	GLY	GLY	GLY	THR	GLY	F4110	T4040	T4040
		E4869	L4758	E4690	GLY	GLY	GLY	GLY	GLY	THR	GLY	S4115	A4041	A4041
		D4870	L4759	Q4691	GLY	GLY	GLY	GLY	GLY	THR	GLY	E4116	M4044	M4044
		E4871	L4760	G4692	GLY	GLY	GLY	GLY	GLY	THR	GLY	A4117	V4045	V4045
		M4874	L4761	G4693	GLY	GLY	GLY	GLY	GLY	THR	GLY	D4118	M4046	M4046
		K4875	L4762	D4694	GLY	GLY	GLY	GLY	GLY	THR	GLY	E4119	M4047	M4047
		C4876	L4763	D4695	GLY	GLY	GLY	GLY	GLY	THR	GLY	N4120	L4048	L4048
		M4879	L4764	V4697	GLY	GLY	GLY	GLY	GLY	THR	GLY	E4121	V4049	V4049
		M4880	L4765	G4698	GLY	GLY	GLY	GLY	GLY	THR	GLY	M4122	S4051	S4051
		T4881	L4766	G4699	GLY	GLY	GLY	GLY	GLY	THR	GLY	T4123	S4052	S4052
		C4882	L4767	D4696	GLY	GLY	GLY	GLY	GLY	THR	GLY	F4125	V4055	V4055
		F4885	L4768	V4697	GLY	GLY	GLY	GLY	GLY	THR	GLY	N4130	E4056	E4056
		H4886	L4769	K4698	GLY	GLY	GLY	GLY	GLY	THR	GLY	E4134	L4059	L4059
		K4887	L4770	G4699	GLY	GLY	GLY	GLY	GLY	THR	GLY	K4060	F4061	F4061
		V4888	L4771	Q4700	GLY	GLY	GLY	GLY	GLY	THR	GLY	P4135	D4062	D4062
		V4889	L4772	M4701	GLY	GLY	GLY	GLY	GLY	THR	GLY	A4136	F4063	F4063
			L4773	D4702	GLY	GLY	GLY	GLY	GLY	THR	GLY	R4137	M4064	M4064
			L4774	R4703	GLY	GLY	GLY	GLY	GLY	THR	GLY	D4138	F4065	F4065
			L4775	T4702	GLY	GLY	GLY	GLY	GLY	THR	GLY	N4142	L4066	L4066
			L4776	F4703	GLY	GLY	GLY	GLY	GLY	THR	GLY	T4148	E4152	E4152
			L4777	T4708	GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4778	F4711	GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4779		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4780		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4781		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4782		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4783		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4784		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4785		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4786		GLY	GLY	GLY	GLY	GLY	THR	GLY			
			L4787		GLY	GLY	GLY	GLY	GLY	THR	GLY			

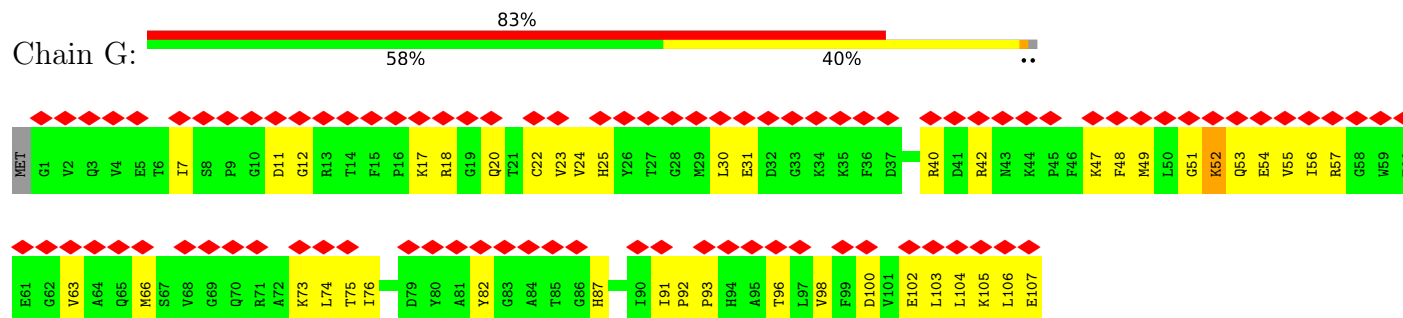
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



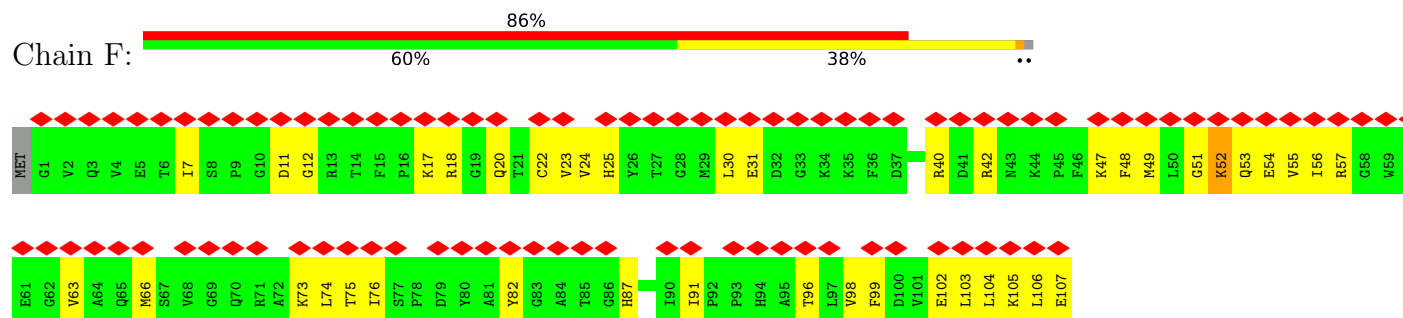
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	3336	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	0.283	Depositor
Minimum map value	-0.122	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	428.544, 428.544, 428.544	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.837, 0.837, 0.837	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.17	0/35977	0.47	10/48726 (0.0%)
1	B	0.18	0/35977	0.47	10/48726 (0.0%)
1	C	0.18	0/35977	0.47	10/48726 (0.0%)
1	D	0.18	0/35977	0.47	10/48726 (0.0%)
2	E	0.17	0/850	0.51	0/1146
2	F	0.17	0/850	0.51	0/1146
2	G	0.17	0/850	0.51	0/1146
2	H	0.17	0/850	0.51	0/1146
All	All	0.18	0/147308	0.47	40/199488 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
All	All	0	8

There are no bond length outliers.

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2578	MET	CB-CG-SD	8.39	137.88	112.70
1	A	2578	MET	CB-CG-SD	8.38	137.85	112.70
1	B	2578	MET	CB-CG-SD	8.38	137.85	112.70
1	C	2578	MET	CB-CG-SD	8.38	137.83	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1071	ARG	CA-CB-CG	7.72	129.54	114.10
1	C	1071	ARG	CA-CB-CG	7.71	129.51	114.10
1	D	1071	ARG	CA-CB-CG	7.71	129.51	114.10
1	B	1071	ARG	CA-CB-CG	7.69	129.48	114.10
1	B	2876	GLU	CA-CB-CG	6.90	127.90	114.10
1	C	2876	GLU	CA-CB-CG	6.90	127.90	114.10
1	A	2876	GLU	CA-CB-CG	6.89	127.89	114.10
1	D	2876	GLU	CA-CB-CG	6.89	127.88	114.10
1	D	2932	MET	CB-CG-SD	-6.75	92.46	112.70
1	B	2932	MET	CB-CG-SD	-6.75	92.46	112.70
1	A	2932	MET	CB-CG-SD	-6.74	92.48	112.70
1	C	2932	MET	CB-CG-SD	-6.74	92.48	112.70
1	C	4231	MET	CB-CG-SD	6.21	131.32	112.70
1	A	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	B	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	D	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	C	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	A	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	D	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	B	4189	ARG	CG-CD-NE	5.97	125.14	112.00
1	B	2530	MET	CB-CG-SD	-5.92	94.93	112.70
1	A	2530	MET	CB-CG-SD	-5.92	94.94	112.70
1	C	2530	MET	CB-CG-SD	-5.92	94.94	112.70
1	D	2530	MET	CB-CG-SD	-5.92	94.95	112.70
1	B	1071	ARG	CB-CG-CD	5.72	124.46	111.30
1	C	1071	ARG	CB-CG-CD	5.72	124.45	111.30
1	D	1071	ARG	CB-CG-CD	5.71	124.44	111.30
1	A	1071	ARG	CB-CG-CD	5.70	124.41	111.30
1	C	2932	MET	CB-CA-C	-5.37	102.39	110.92
1	A	2932	MET	CB-CA-C	-5.35	102.41	110.92
1	B	2932	MET	CB-CA-C	-5.33	102.45	110.92
1	D	2932	MET	CB-CA-C	-5.32	102.45	110.92
1	B	4189	ARG	CD-NE-CZ	5.23	131.72	124.40
1	A	4189	ARG	CD-NE-CZ	5.22	131.71	124.40
1	C	4189	ARG	CD-NE-CZ	5.22	131.70	124.40
1	D	4189	ARG	CD-NE-CZ	5.21	131.70	124.40

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1608	MET	Peptide

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Mol	Chain	Res	Type	Group
1	A	4189	ARG	Sidechain
1	B	1608	MET	Peptide
1	B	4189	ARG	Sidechain
1	C	1608	MET	Peptide
1	C	4189	ARG	Sidechain
1	D	1608	MET	Peptide
1	D	4189	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34793	1543	0
1	B	35150	0	34793	1545	0
1	C	35150	0	34793	1531	0
1	D	35150	0	34793	1504	0
2	E	831	0	831	32	0
2	F	831	0	831	29	0
2	G	831	0	831	32	0
2	H	831	0	831	33	0
3	A	31	0	12	1	0
3	B	31	0	12	1	0
3	C	31	0	12	1	0
3	D	31	0	12	1	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	20	0	18	2	0
6	B	20	0	18	2	0
6	C	20	0	18	1	0
6	D	20	0	18	1	0
All	All	144136	0	142616	6164	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 (6164) 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:B:2639:MET:HG2	1:B:2640:PRO:HD3	1.47	0.97
1:C:2639:MET:HG2	1:C:2640:PRO:HD3	1.47	0.96
1:D:2639:MET:HG2	1:D:2640:PRO:HD3	1.47	0.96
1:A:2639:MET:HG2	1:A:2640:PRO:HD3	1.47	0.96
1:A:4061:PHE:HA	1:A:4064:MET:HE2	1.50	0.93
1:B:4061:PHE:HA	1:B:4064:MET:HE2	1.50	0.93
1:B:2700:MET:HE1	1:B:3000:LYS:HB3	1.52	0.92
1:C:2211:MET:HE2	1:C:2232:CYS:HB3	1.52	0.92
1:C:4061:PHE:HA	1:C:4064:MET:HE2	1.50	0.92
1:D:4061:PHE:HA	1:D:4064:MET:HE2	1.50	0.92
1:D:2211:MET:HE2	1:D:2232:CYS:HB3	1.52	0.92
1:A:2700:MET:HE1	1:A:3000:LYS:HB3	1.52	0.92
1:D:2700:MET:HE1	1:D:3000:LYS:HB3	1.52	0.91
1:B:2211:MET:HE2	1:B:2232:CYS:HB3	1.52	0.91
1:C:2700:MET:HE1	1:C:3000:LYS:HB3	1.52	0.90
1:A:2211:MET:HE2	1:A:2232:CYS:HB3	1.52	0.90
1:A:2821:TRP:NE1	1:A:2874:MET:SD	2.46	0.89
1:D:2821:TRP:NE1	1:D:2874:MET:SD	2.46	0.88
1:B:2821:TRP:NE1	1:B:2874:MET:SD	2.46	0.87
1:C:2821:TRP:NE1	1:C:2874:MET:SD	2.46	0.87
1:B:1067:SER:O	1:B:1071:ARG:HB2	1.76	0.85
1:A:1067:SER:O	1:A:1071:ARG:HB2	1.76	0.85
1:C:2607:LEU:HD22	1:C:2643:LEU:HD11	1.60	0.84
1:C:1067:SER:O	1:C:1071:ARG:HB2	1.76	0.84
1:C:3889:GLN:HG3	1:C:3967:GLU:HG3	1.59	0.84
1:D:3889:GLN:HG3	1:D:3967:GLU:HG3	1.59	0.84
1:A:2607:LEU:HD22	1:A:2643:LEU:HD11	1.60	0.84
1:A:971:ASP:HB3	1:A:974:HIS:HD1	1.40	0.83
1:D:1067:SER:O	1:D:1071:ARG:HB2	1.76	0.83
1:A:179:TYR:OH	1:D:2359:ARG:NH1	2.10	0.83
1:D:1089:TYR:HD2	1:D:1152:MET:HE1	1.44	0.83
1:D:2607:LEU:HD22	1:D:2643:LEU:HD11	1.60	0.83
1:B:1089:TYR:HD2	1:B:1152:MET:HE1	1.44	0.83
1:A:1089:TYR:HD2	1:A:1152:MET:HE1	1.44	0.83
1:C:1089:TYR:HD2	1:C:1152:MET:HE1	1.44	0.83
1:C:404:ILE:HG12	1:C:483:MET:HE1	1.61	0.83
1:B:4961:CYS:SG	1:B:4978:HIS:CE1	2.72	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:404:ILE:HG12	1:D:483:MET:HE1	1.61	0.82
1:A:3889:GLN:HG3	1:A:3967:GLU:HG3	1.59	0.82
1:B:3889:GLN:HG3	1:B:3967:GLU:HG3	1.59	0.82
1:A:4961:CYS:SG	1:A:4978:HIS:CE1	2.72	0.82
1:B:2607:LEU:HD22	1:B:2643:LEU:HD11	1.60	0.82
1:D:1601:MET:HE3	1:D:1602:PRO:HD2	1.61	0.82
1:C:2615:ARG:HB2	1:C:2618:MET:HE3	1.61	0.82
1:B:2223:ILE:HG21	1:B:2267:MET:HB3	1.62	0.82
1:B:2615:ARG:HB2	1:B:2618:MET:HE3	1.61	0.82
1:D:2615:ARG:HB2	1:D:2618:MET:HE3	1.61	0.82
1:C:4961:CYS:SG	1:C:4978:HIS:CE1	2.72	0.82
1:A:404:ILE:HG12	1:A:483:MET:HE1	1.61	0.81
1:A:2615:ARG:HB2	1:A:2618:MET:HE3	1.61	0.81
1:D:4961:CYS:SG	1:D:4978:HIS:CE1	2.72	0.81
1:C:2223:ILE:HG21	1:C:2267:MET:HB3	1.62	0.81
1:B:404:ILE:HG12	1:B:483:MET:HE1	1.61	0.81
1:B:1601:MET:HE3	1:B:1602:PRO:HD2	1.61	0.81
1:C:1089:TYR:CD2	1:C:1152:MET:HE1	2.16	0.81
1:C:3842:LEU:HB2	1:C:3929:SER:HB2	1.63	0.81
1:B:1668:ARG:HE	1:B:1671:ARG:HH21	1.28	0.81
1:D:1089:TYR:CD2	1:D:1152:MET:HE1	2.16	0.81
1:C:1601:MET:HE3	1:C:1602:PRO:HD2	1.61	0.81
1:D:2223:ILE:HG21	1:D:2267:MET:HB3	1.62	0.81
1:A:1089:TYR:CD2	1:A:1152:MET:HE1	2.16	0.81
1:A:3842:LEU:HB2	1:A:3929:SER:HB2	1.63	0.81
1:A:2223:ILE:HG21	1:A:2267:MET:HB3	1.62	0.80
1:A:2772:GLN:HG3	1:B:1506:GLN:NE2	1.97	0.80
1:B:1089:TYR:CD2	1:B:1152:MET:HE1	2.16	0.80
1:B:844:ARG:HD2	1:B:1196:PRO:HB2	1.63	0.80
1:B:1686:CYS:SG	1:B:1691:GLN:NE2	2.54	0.80
1:D:4904:PRO:HB3	1:D:4913:ARG:HD3	1.63	0.80
1:C:4904:PRO:HB3	1:C:4913:ARG:HD3	1.63	0.80
1:C:1686:CYS:SG	1:C:1691:GLN:NE2	2.54	0.80
1:D:844:ARG:HD2	1:D:1196:PRO:HB2	1.63	0.80
1:A:1601:MET:HE3	1:A:1602:PRO:HD2	1.61	0.79
1:B:452:PHE:O	1:B:531:ARG:NH2	2.15	0.79
1:A:1668:ARG:HE	1:A:1671:ARG:HH21	1.28	0.79
1:A:1686:CYS:SG	1:A:1691:GLN:NE2	2.54	0.79
1:D:3842:LEU:HB2	1:D:3929:SER:HB2	1.63	0.79
1:A:4904:PRO:HB3	1:A:4913:ARG:HD3	1.63	0.79
1:A:4958:CYS:SG	1:A:4961:CYS:HB2	2.23	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:ARG:HH21	1:D:328:LYS:HB3	1.48	0.79
1:D:4958:CYS:SG	1:D:4961:CYS:HB2	2.23	0.79
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.63	0.79
1:A:275:ARG:HH21	1:A:328:LYS:HB3	1.48	0.79
1:A:985:VAL:HG12	1:A:1039:LEU:HD22	1.65	0.79
1:D:179:TYR:OH	1:C:2359:ARG:NH1	2.14	0.79
1:B:985:VAL:HG12	1:B:1039:LEU:HD22	1.65	0.79
1:B:4958:CYS:SG	1:B:4961:CYS:HB2	2.23	0.79
1:A:3479:ALA:HB1	1:B:1140:GLY:HA2	1.63	0.79
1:D:452:PHE:O	1:D:531:ARG:NH2	2.15	0.79
1:A:844:ARG:HD2	1:A:1196:PRO:HB2	1.63	0.79
1:A:452:PHE:O	1:A:531:ARG:NH2	2.15	0.78
1:B:989:ALA:HB2	1:B:1039:LEU:HD21	1.65	0.78
1:C:632:LEU:HD23	1:C:1666:THR:HG23	1.65	0.78
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	1.63	0.78
1:D:989:ALA:HB2	1:D:1039:LEU:HD21	1.65	0.78
1:A:2591:ARG:HH12	1:A:2640:PRO:HG2	1.48	0.78
1:D:985:VAL:HG12	1:D:1039:LEU:HD22	1.65	0.78
1:C:452:PHE:O	1:C:531:ARG:NH2	2.15	0.78
1:C:1668:ARG:HE	1:C:1671:ARG:HH21	1.28	0.78
1:A:632:LEU:HD23	1:A:1666:THR:HG23	1.65	0.78
1:B:2591:ARG:HH12	1:B:2640:PRO:HG2	1.48	0.78
1:D:632:LEU:HD23	1:D:1666:THR:HG23	1.65	0.78
1:D:2591:ARG:HH12	1:D:2640:PRO:HG2	1.48	0.78
1:D:1668:ARG:HE	1:D:1671:ARG:HH21	1.29	0.78
1:D:1686:CYS:SG	1:D:1691:GLN:NE2	2.54	0.78
1:C:989:ALA:HB2	1:C:1039:LEU:HD21	1.65	0.78
1:D:1581:LEU:HD12	1:D:1584:ARG:HE	1.49	0.78
1:C:844:ARG:HD2	1:C:1196:PRO:HB2	1.63	0.78
1:C:1581:LEU:HD12	1:C:1584:ARG:HE	1.48	0.78
1:B:275:ARG:HH21	1:B:328:LYS:HB3	1.48	0.78
1:A:989:ALA:HB2	1:A:1039:LEU:HD21	1.65	0.78
1:C:985:VAL:HG12	1:C:1039:LEU:HD22	1.65	0.78
1:C:2591:ARG:HH12	1:C:2640:PRO:HG2	1.49	0.78
1:A:1581:LEU:HD12	1:A:1584:ARG:HE	1.49	0.77
1:B:2823:ILE:HD11	1:B:2935:TYR:HB3	1.66	0.77
1:C:4958:CYS:SG	1:C:4961:CYS:HB2	2.23	0.77
1:D:2823:ILE:HD11	1:D:2935:TYR:HB3	1.66	0.77
1:B:632:LEU:HD23	1:B:1666:THR:HG23	1.65	0.77
1:C:4242:ILE:HG22	1:C:4246:GLN:HE22	1.50	0.77
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.67	0.77
1:C:2823:ILE:HD11	1:C:2935:TYR:HB3	1.66	0.77
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.66	0.77
1:D:622:THR:HG23	1:D:626:LEU:HD12	1.67	0.77
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.66	0.76
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.66	0.76
1:B:3018:LEU:HB3	1:B:3025:LEU:HD12	1.67	0.76
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.67	0.76
1:C:772:ASN:H	1:C:1470:ARG:HH22	1.32	0.76
1:A:4242:ILE:HG22	1:A:4246:GLN:HE22	1.50	0.76
1:B:663:TYR:HE1	1:B:745:SER:HB2	1.51	0.76
1:A:772:ASN:H	1:A:1470:ARG:HH22	1.32	0.76
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.66	0.76
1:B:1581:LEU:HD12	1:B:1584:ARG:HE	1.49	0.76
1:C:275:ARG:HH21	1:C:328:LYS:HB3	1.48	0.76
1:C:663:TYR:HE1	1:C:745:SER:HB2	1.51	0.76
1:A:2823:ILE:HD11	1:A:2935:TYR:HB3	1.66	0.76
1:C:2752:ASP:OD1	1:C:2806:ARG:NH1	2.19	0.76
1:C:3018:LEU:HB3	1:C:3025:LEU:HD12	1.67	0.76
1:A:2752:ASP:OD1	1:A:2806:ARG:NH1	2.19	0.76
2:G:53:GLN:HE21	2:G:57:ARG:HG3	1.51	0.76
1:D:2534:ALA:HA	1:D:2588:ARG:HH12	1.50	0.76
1:A:663:TYR:HE1	1:A:745:SER:HB2	1.51	0.76
2:H:53:GLN:HE21	2:H:57:ARG:HG3	1.51	0.76
1:D:663:TYR:HE1	1:D:745:SER:HB2	1.51	0.76
1:D:772:ASN:H	1:D:1470:ARG:HH22	1.32	0.76
1:A:3409:TYR:HE2	1:A:3510:ILE:HG12	1.51	0.75
1:B:2534:ALA:HA	1:B:2588:ARG:HH12	1.50	0.75
1:B:2752:ASP:OD1	1:B:2806:ARG:NH1	2.19	0.75
1:C:1683:HIS:NE2	1:C:1798:LEU:O	2.17	0.75
1:D:4242:ILE:HG22	1:D:4246:GLN:HE22	1.50	0.75
1:A:4204:GLN:HB3	1:A:4245:MET:HG2	1.69	0.75
1:D:4204:GLN:HB3	1:D:4245:MET:HG2	1.69	0.75
1:B:772:ASN:H	1:B:1470:ARG:HH22	1.32	0.75
1:B:4242:ILE:HG22	1:B:4246:GLN:HE22	1.50	0.75
1:D:2752:ASP:OD1	1:D:2806:ARG:NH1	2.19	0.75
1:D:3409:TYR:HE2	1:D:3510:ILE:HG12	1.51	0.75
1:B:2271:THR:HG23	1:B:2274:ASP:H	1.52	0.75
1:C:2271:THR:HG23	1:C:2274:ASP:H	1.52	0.75
1:A:3018:LEU:HB3	1:A:3025:LEU:HD12	1.67	0.75
2:F:53:GLN:HE21	2:F:57:ARG:HG3	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2534:ALA:HA	1:A:2588:ARG:HH12	1.50	0.75
2:E:53:GLN:HE21	2:E:57:ARG:HG3	1.51	0.75
1:C:3114:LYS:HD2	1:C:3116:SER:H	1.52	0.74
1:A:590:LEU:HD22	1:A:631:LEU:HD21	1.69	0.74
1:B:3114:LYS:HD2	1:B:3116:SER:H	1.52	0.74
1:D:3018:LEU:HB3	1:D:3025:LEU:HD12	1.67	0.74
1:C:2534:ALA:HA	1:C:2588:ARG:HH12	1.50	0.74
1:A:2271:THR:HG23	1:A:2274:ASP:H	1.52	0.74
1:B:4204:GLN:HB3	1:B:4245:MET:HG2	1.69	0.74
1:C:590:LEU:HD22	1:C:631:LEU:HD21	1.69	0.74
1:A:1671:ARG:NH1	1:A:1710:GLY:O	2.21	0.74
1:B:590:LEU:HD22	1:B:631:LEU:HD21	1.69	0.74
1:D:590:LEU:HD22	1:D:631:LEU:HD21	1.69	0.74
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.21	0.74
1:D:2321:ILE:HD11	1:D:2418:LEU:HD13	1.69	0.74
1:C:3409:TYR:HE2	1:C:3510:ILE:HG12	1.51	0.74
1:B:3409:TYR:HE2	1:B:3510:ILE:HG12	1.51	0.74
1:C:2321:ILE:HD11	1:C:2418:LEU:HD13	1.69	0.74
1:C:3257:ALA:O	1:C:3321:ARG:NH1	2.21	0.74
1:C:4204:GLN:HB3	1:C:4245:MET:HG2	1.68	0.74
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	1.69	0.74
1:D:3114:LYS:HD2	1:D:3116:SER:H	1.52	0.74
1:C:1778:SER:HB2	1:C:1798:LEU:HB2	1.69	0.74
1:B:4892:ARG:HH22	1:C:4898:GLY:HA3	1.51	0.74
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.21	0.73
1:D:3946:GLN:OE1	1:D:3949:ARG:NH2	2.21	0.73
1:D:1778:SER:HB2	1:D:1798:LEU:HB2	1.69	0.73
1:A:3522:LEU:HD13	1:B:1220:GLN:O	1.88	0.73
1:A:3539:ARG:NH1	1:A:3549:VAL:HA	2.04	0.73
1:B:2247:GLN:NE2	1:B:2278:ALA:O	2.21	0.73
1:B:3539:ARG:NH1	1:B:3549:VAL:HA	2.04	0.73
1:D:3257:ALA:O	1:D:3321:ARG:NH1	2.21	0.73
1:D:213:TYR:H	1:D:341:TYR:H	1.37	0.73
1:D:3354:LEU:HB2	1:D:3415:TYR:HE2	1.53	0.73
1:D:3577:ARG:HH12	1:D:3584:GLU:HB3	1.54	0.73
1:C:213:TYR:H	1:C:341:TYR:H	1.37	0.73
1:D:3147:ILE:HD12	1:D:3152:PHE:HB2	1.71	0.73
1:B:2095:GLN:NE2	1:B:2127:GLN:O	2.17	0.73
1:D:221:ARG:NH1	1:D:253:CYS:O	2.22	0.73
1:C:3577:ARG:HH12	1:C:3584:GLU:HB3	1.54	0.73
1:A:221:ARG:NH1	1:A:253:CYS:O	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3147:ILE:HD12	1:A:3152:PHE:HB2	1.71	0.73
1:D:1501:VAL:HB	1:D:1508:ARG:HH21	1.54	0.73
1:C:3539:ARG:NH1	1:C:3549:VAL:HA	2.04	0.73
1:A:2247:GLN:NE2	1:A:2278:ALA:O	2.21	0.73
1:B:2321:ILE:HD11	1:B:2418:LEU:HD13	1.69	0.73
1:B:3147:ILE:HD12	1:B:3152:PHE:HB2	1.71	0.73
1:D:2271:THR:HG23	1:D:2274:ASP:H	1.52	0.73
1:C:3147:ILE:HD12	1:C:3152:PHE:HB2	1.71	0.73
1:B:221:ARG:NH1	1:B:253:CYS:O	2.22	0.72
1:B:3257:ALA:O	1:B:3321:ARG:NH1	2.21	0.72
1:B:3354:LEU:HB2	1:B:3415:TYR:HE2	1.53	0.72
1:C:3354:LEU:HB2	1:C:3415:TYR:HE2	1.53	0.72
1:A:1699:GLU:OE1	1:A:1813:ARG:NH2	2.22	0.72
1:A:1778:SER:HB2	1:A:1798:LEU:HB2	1.69	0.72
1:A:2321:ILE:HD11	1:A:2418:LEU:HD13	1.69	0.72
1:B:2133:GLU:HG2	1:B:2136:ARG:HH21	1.54	0.72
1:B:2265:LEU:HB2	1:B:2330:ARG:HH11	1.54	0.72
1:D:3539:ARG:NH1	1:D:3549:VAL:HA	2.04	0.72
1:C:4189:ARG:HH11	1:C:4189:ARG:HB2	1.54	0.72
1:A:3354:LEU:HB2	1:A:3415:TYR:HE2	1.53	0.72
1:C:3354:LEU:HA	1:C:3358:PHE:HD2	1.54	0.72
1:B:213:TYR:H	1:B:341:TYR:H	1.37	0.72
1:D:2247:GLN:NE2	1:D:2278:ALA:O	2.22	0.72
1:C:221:ARG:NH1	1:C:253:CYS:O	2.22	0.72
1:A:213:TYR:H	1:A:341:TYR:H	1.37	0.72
1:A:2265:LEU:HB2	1:A:2330:ARG:HH11	1.54	0.72
1:A:4189:ARG:HB2	1:A:4189:ARG:HH11	1.54	0.72
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.21	0.72
1:C:3308:THR:OG1	1:C:3310:ASP:OD1	2.08	0.72
1:A:4226:GLY:O	1:A:4230:LYS:N	2.23	0.72
1:B:1699:GLU:OE1	1:B:1813:ARG:NH2	2.22	0.72
1:B:3719:ASP:H	1:B:3793:MET:HE1	1.55	0.72
1:D:3354:LEU:HA	1:D:3358:PHE:HD2	1.54	0.72
1:D:3989:VAL:HG13	1:D:4023:MET:HE3	1.72	0.72
1:A:1501:VAL:HB	1:A:1508:ARG:HH21	1.54	0.72
1:A:3114:LYS:HD2	1:A:3116:SER:H	1.52	0.72
1:D:1067:SER:O	1:D:1071:ARG:CB	2.38	0.72
1:C:1130:GLN:HG2	1:C:1138:PRO:HA	1.72	0.72
1:B:1501:VAL:HB	1:B:1508:ARG:HH21	1.54	0.72
1:D:1130:GLN:HG2	1:D:1138:PRO:HA	1.72	0.72
1:D:2133:GLU:HG2	1:D:2136:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:GLY:HA3	1:C:436:LEU:HD21	1.71	0.72
1:C:1699:GLU:OE1	1:C:1813:ARG:NH2	2.22	0.72
1:A:417:GLY:HA3	1:A:436:LEU:HD21	1.71	0.72
1:A:1259:ARG:NH1	1:A:1591:CYS:SG	2.63	0.72
1:C:221:ARG:HE	1:C:259:LEU:HD23	1.55	0.72
1:A:1130:GLN:HG2	1:A:1138:PRO:HA	1.72	0.72
1:C:1205:GLY:HA2	1:C:1211:LEU:HD11	1.72	0.72
1:C:3989:VAL:HG13	1:C:4023:MET:HE3	1.72	0.72
1:A:3257:ALA:O	1:A:3321:ARG:NH1	2.21	0.71
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.72	0.71
1:B:4189:ARG:HB2	1:B:4189:ARG:HH11	1.54	0.71
1:B:4226:GLY:O	1:B:4230:LYS:N	2.23	0.71
1:D:1738:LEU:HB2	1:D:2146:PRO:HD3	1.72	0.71
1:C:1125:ASN:HD22	1:C:1128:ARG:HG2	1.55	0.71
1:C:1152:MET:HB2	1:C:1161:ILE:HB	1.72	0.71
1:C:2133:GLU:HG2	1:C:2136:ARG:HH21	1.54	0.71
1:A:1067:SER:O	1:A:1071:ARG:CB	2.38	0.71
1:A:3577:ARG:HH12	1:A:3584:GLU:HB3	1.54	0.71
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.72	0.71
1:D:1699:GLU:OE1	1:D:1813:ARG:NH2	2.22	0.71
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.72	0.71
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.72	0.71
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.72	0.71
1:A:3513:THR:HG23	1:A:3516:LYS:HZ3	1.55	0.71
1:B:1067:SER:O	1:B:1071:ARG:CB	2.38	0.71
1:B:1125:ASN:HD22	1:B:1128:ARG:HG2	1.55	0.71
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	1.72	0.71
1:D:417:GLY:HA3	1:D:436:LEU:HD21	1.71	0.71
1:D:2095:GLN:NE2	1:D:2127:GLN:O	2.17	0.71
1:D:3308:THR:OG1	1:D:3310:ASP:OD1	2.08	0.71
1:B:3577:ARG:HH12	1:B:3584:GLU:HB3	1.54	0.71
1:C:2265:LEU:HB2	1:C:2330:ARG:HH11	1.54	0.71
1:B:2209:GLU:O	1:B:2213:ASN:ND2	2.24	0.71
1:B:3308:THR:OG1	1:B:3310:ASP:OD1	2.08	0.71
1:A:3354:LEU:HA	1:A:3358:PHE:HD2	1.54	0.71
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.72	0.71
1:B:1259:ARG:NH1	1:B:1591:CYS:SG	2.63	0.71
1:B:3417:ASP:HA	1:B:3420:ARG:HE	1.56	0.71
1:D:1259:ARG:NH1	1:D:1591:CYS:SG	2.63	0.71
1:D:2265:LEU:HB2	1:D:2330:ARG:HH11	1.54	0.71
1:C:2209:GLU:O	1:C:2213:ASN:ND2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3308:THR:OG1	1:A:3310:ASP:OD1	2.08	0.71
1:B:758:ARG:HG2	1:B:763:PRO:HA	1.72	0.71
1:B:3354:LEU:HA	1:B:3358:PHE:HD2	1.54	0.71
1:B:3513:THR:HG23	1:B:3516:LYS:HZ3	1.54	0.71
1:D:1125:ASN:HD22	1:D:1128:ARG:HG2	1.55	0.71
1:D:1683:HIS:NE2	1:D:1798:LEU:O	2.17	0.71
1:D:2209:GLU:O	1:D:2213:ASN:ND2	2.24	0.71
1:C:1067:SER:O	1:C:1071:ARG:CB	2.38	0.71
1:A:530:ILE:HA	1:A:536:ASN:HD22	1.56	0.71
1:A:758:ARG:HG2	1:A:763:PRO:HA	1.72	0.71
1:C:530:ILE:HA	1:C:536:ASN:HD22	1.56	0.71
1:C:2827:ARG:HB2	1:C:2934:GLY:HA3	1.73	0.71
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.73	0.71
1:A:3417:ASP:HA	1:A:3420:ARG:HE	1.56	0.71
1:B:1205:GLY:HA2	1:B:1211:LEU:HD11	1.72	0.71
1:B:2827:ARG:HB2	1:B:2934:GLY:HA3	1.73	0.71
1:D:530:ILE:HA	1:D:536:ASN:HD22	1.56	0.71
1:B:417:GLY:HA3	1:B:436:LEU:HD21	1.71	0.71
1:D:155:LYS:NZ	1:C:225:GLY:HA2	2.06	0.71
1:A:1125:ASN:HD22	1:A:1128:ARG:HG2	1.55	0.70
1:A:1205:GLY:HA2	1:A:1211:LEU:HD11	1.72	0.70
1:A:2133:GLU:HG2	1:A:2136:ARG:HH21	1.54	0.70
1:C:1259:ARG:NH1	1:C:1591:CYS:SG	2.63	0.70
1:C:3946:GLN:OE1	1:C:3949:ARG:NH2	2.21	0.70
1:C:4226:GLY:O	1:C:4230:LYS:N	2.23	0.70
1:A:2579:VAL:O	1:A:2582:MET:HB2	1.91	0.70
1:D:758:ARG:HG2	1:D:763:PRO:HA	1.72	0.70
1:A:3946:GLN:OE1	1:A:3949:ARG:NH2	2.21	0.70
1:A:3989:VAL:HG13	1:A:4023:MET:HE3	1.72	0.70
1:B:3989:VAL:HG13	1:B:4023:MET:HE3	1.72	0.70
1:D:221:ARG:HE	1:D:259:LEU:HD23	1.55	0.70
1:C:3513:THR:HG23	1:C:3516:LYS:HZ3	1.55	0.70
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.72	0.70
1:A:3719:ASP:H	1:A:3793:MET:HE1	1.55	0.70
1:A:3959:LYS:O	1:A:3963:ASN:ND2	2.22	0.70
1:B:530:ILE:HA	1:B:536:ASN:HD22	1.56	0.70
1:D:3417:ASP:HA	1:D:3420:ARG:HE	1.56	0.70
1:D:3513:THR:HG23	1:D:3516:LYS:HZ3	1.55	0.70
1:C:2247:GLN:NE2	1:C:2278:ALA:O	2.21	0.70
1:A:1573:MET:SD	1:A:1574:PRO:HD2	2.32	0.70
1:A:2209:GLU:O	1:A:2213:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4226:GLY:O	1:D:4230:LYS:N	2.23	0.70
1:C:645:ARG:HE	1:C:826:ILE:HG13	1.57	0.70
1:C:2760:GLU:HA	1:C:2802:LYS:HZ1	1.56	0.70
1:A:221:ARG:HE	1:A:259:LEU:HD23	1.55	0.70
1:B:1152:MET:HB2	1:B:1161:ILE:HB	1.72	0.70
1:B:2579:VAL:O	1:B:2582:MET:HB2	1.91	0.70
1:B:3981:ALA:O	1:B:3986:TRP:NE1	2.22	0.70
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:HH11	1.57	0.70
1:C:3634:ALA:HA	1:C:3637:ARG:HB3	1.74	0.70
1:A:3634:ALA:HA	1:A:3637:ARG:HB3	1.74	0.70
1:B:1857:GLU:HA	1:B:1860:LYS:HE2	1.74	0.70
1:D:1727:ARG:NH2	1:D:1773:PRO:O	2.25	0.70
1:D:2579:VAL:O	1:D:2582:MET:HB2	1.91	0.70
1:D:4189:ARG:HB2	1:D:4189:ARG:HH11	1.54	0.70
1:C:1857:GLU:HA	1:C:1860:LYS:HE2	1.74	0.70
1:A:1152:MET:HB2	1:A:1161:ILE:HB	1.72	0.70
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.73	0.70
1:B:1638:ALA:HB1	1:B:1647:CYS:HB2	1.74	0.70
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:HH11	1.57	0.70
1:B:4137:ARG:NH2	1:B:4199:GLU:OE2	2.25	0.70
1:D:1152:MET:HB2	1:D:1161:ILE:HB	1.72	0.70
1:D:1573:MET:SD	1:D:1574:PRO:HD2	2.32	0.70
1:D:3719:ASP:H	1:D:3793:MET:HE1	1.55	0.70
1:C:1501:VAL:HB	1:C:1508:ARG:HH21	1.54	0.70
1:B:1646:ARG:HH21	1:B:1648:MET:HE1	1.57	0.70
1:B:1738:LEU:HB2	1:B:2146:PRO:HD3	1.72	0.70
1:D:1271:ARG:NH1	1:D:1272:LEU:O	2.25	0.70
1:D:2103:VAL:HG12	1:D:2107:GLN:HE22	1.57	0.70
1:A:1271:ARG:NH1	1:A:1272:LEU:O	2.25	0.70
1:D:3959:LYS:O	1:D:3963:ASN:ND2	2.22	0.70
1:C:758:ARG:HG2	1:C:763:PRO:HA	1.72	0.70
1:C:1271:ARG:NH1	1:C:1272:LEU:O	2.25	0.70
1:C:2103:VAL:HG12	1:C:2107:GLN:HE22	1.57	0.70
1:A:213:TYR:CD2	1:A:337:PRO:HB2	2.27	0.69
1:A:1646:ARG:HH21	1:A:1648:MET:HE1	1.57	0.69
1:A:2827:ARG:HB2	1:A:2934:GLY:HA3	1.73	0.69
2:H:30:LEU:HD12	2:H:31:GLU:H	1.57	0.69
1:B:221:ARG:HE	1:B:259:LEU:HD23	1.55	0.69
1:B:1271:ARG:NH1	1:B:1272:LEU:O	2.25	0.69
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.25	0.69
1:C:3417:ASP:HA	1:C:3420:ARG:HE	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.17	0.69
1:B:1730:MET:O	1:B:1772:ARG:NH2	2.25	0.69
1:B:2103:VAL:HG12	1:B:2107:GLN:HE22	1.57	0.69
1:B:3634:ALA:HA	1:B:3637:ARG:HB3	1.74	0.69
1:D:2827:ARG:HB2	1:D:2934:GLY:HA3	1.73	0.69
1:A:1730:MET:O	1:A:1772:ARG:NH2	2.25	0.69
1:A:2103:VAL:HG12	1:A:2107:GLN:HE22	1.57	0.69
1:C:213:TYR:CD2	1:C:337:PRO:HB2	2.28	0.69
1:C:1646:ARG:HH21	1:C:1648:MET:HE1	1.57	0.69
1:C:4064:MET:HE1	1:C:4110:PHE:HE2	1.57	0.69
1:A:1436:SER:HB3	1:A:1565:GLU:HB2	1.75	0.69
1:B:537:CYS:HB3	1:B:571:SER:HB2	1.75	0.69
1:D:1078:GLU:OE2	1:D:1607:ARG:NH2	2.26	0.69
1:A:537:CYS:HB3	1:A:571:SER:HB2	1.75	0.69
1:A:4064:MET:HE1	1:A:4110:PHE:HE2	1.58	0.69
1:D:1205:GLY:HA2	1:D:1211:LEU:HD11	1.72	0.69
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.72	0.69
1:D:3634:ALA:HA	1:D:3637:ARG:HB3	1.74	0.69
1:D:4961:CYS:SG	1:D:4978:HIS:HE1	2.16	0.69
1:C:1573:MET:SD	1:C:1574:PRO:HD2	2.32	0.69
1:C:3354:LEU:HD12	1:C:3415:TYR:HD2	1.58	0.69
2:E:30:LEU:HD12	2:E:31:GLU:H	1.58	0.69
1:D:213:TYR:CD2	1:D:337:PRO:HB2	2.27	0.69
1:D:1730:MET:O	1:D:1772:ARG:NH2	2.25	0.69
1:D:4064:MET:HE1	1:D:4110:PHE:HE2	1.58	0.69
1:C:3719:ASP:H	1:C:3793:MET:HE1	1.55	0.69
1:C:3959:LYS:O	1:C:3963:ASN:ND2	2.22	0.69
1:C:4137:ARG:NH2	1:C:4199:GLU:OE2	2.25	0.69
1:A:1727:ARG:NH2	1:A:1773:PRO:O	2.25	0.69
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:HH11	1.57	0.69
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.32	0.69
1:D:3354:LEU:HD12	1:D:3415:TYR:HD2	1.58	0.69
1:A:645:ARG:HE	1:A:826:ILE:HG13	1.57	0.69
2:G:30:LEU:HD12	2:G:31:GLU:H	1.57	0.69
1:B:213:TYR:CD2	1:B:337:PRO:HB2	2.28	0.69
1:B:1078:GLU:OE2	1:B:1607:ARG:NH2	2.26	0.69
1:B:1100:MET:N	1:B:1125:ASN:OD1	2.26	0.69
1:B:3143:LEU:HD13	1:B:3146:HIS:HE1	1.58	0.69
1:D:645:ARG:HE	1:D:826:ILE:HG13	1.57	0.69
1:D:1100:MET:N	1:D:1125:ASN:OD1	2.26	0.69
1:D:2633:LEU:HD22	1:D:2641:LEU:HD11	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:GLU:OE2	1:C:1607:ARG:NH2	2.26	0.69
1:C:1638:ALA:HB1	1:C:1647:CYS:HB2	1.74	0.69
1:A:1638:ALA:HB1	1:A:1647:CYS:HB2	1.74	0.69
1:B:155:LYS:HG3	1:B:156:GLN:N	2.08	0.69
1:B:1453:VAL:HG12	1:B:1492:CYS:HB2	1.74	0.69
1:D:537:CYS:HB3	1:D:571:SER:HB2	1.75	0.69
1:D:4137:ARG:NH2	1:D:4199:GLU:OE2	2.25	0.69
1:C:1730:MET:O	1:C:1772:ARG:NH2	2.25	0.69
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.25	0.69
1:A:155:LYS:HG3	1:A:156:GLN:N	2.08	0.69
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.75	0.69
1:D:3981:ALA:O	1:D:3986:TRP:NE1	2.22	0.69
1:C:2579:VAL:O	1:C:2582:MET:HB2	1.91	0.69
1:A:1683:HIS:NE2	1:A:1798:LEU:O	2.17	0.68
1:A:2107:GLN:O	1:A:3694:LYS:NZ	2.26	0.68
1:A:3981:ALA:O	1:A:3986:TRP:NE1	2.22	0.68
1:A:4137:ARG:NH2	1:A:4199:GLU:OE2	2.25	0.68
1:B:2633:LEU:HD22	1:B:2641:LEU:HD11	1.75	0.68
1:D:1733:GLU:OE1	1:D:2140:ARG:NH2	2.26	0.68
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:HH11	1.57	0.68
1:C:2633:LEU:HD22	1:C:2641:LEU:HD11	1.75	0.68
1:A:1857:GLU:HA	1:A:1860:LYS:HE2	1.74	0.68
1:A:2633:LEU:HD22	1:A:2641:LEU:HD11	1.75	0.68
1:D:1453:VAL:HG12	1:D:1492:CYS:HB2	1.74	0.68
1:C:2107:GLN:O	1:C:3694:LYS:NZ	2.26	0.68
1:C:4961:CYS:SG	1:C:4978:HIS:HE1	2.16	0.68
1:B:3141:THR:HG23	1:B:3145:GLN:HE22	1.59	0.68
1:B:4580:TYR:OH	1:B:4806:ASN:ND2	2.26	0.68
1:D:1646:ARG:HH21	1:D:1648:MET:HE1	1.57	0.68
1:D:3465:ASN:HA	1:D:3502:ARG:HG2	1.76	0.68
1:D:3769:ARG:O	1:D:3773:ARG:NH1	2.25	0.68
1:B:3354:LEU:HD12	1:B:3415:TYR:HD2	1.58	0.68
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.25	0.68
1:B:4064:MET:HE1	1:B:4110:PHE:HE2	1.58	0.68
1:D:4580:TYR:OH	1:D:4806:ASN:ND2	2.26	0.68
1:C:1436:SER:HB3	1:C:1565:GLU:HB2	1.75	0.68
1:A:1453:VAL:HG12	1:A:1492:CYS:HB2	1.74	0.68
1:B:3465:ASN:HA	1:B:3502:ARG:HG2	1.76	0.68
1:D:2107:GLN:O	1:D:3694:LYS:NZ	2.26	0.68
1:C:537:CYS:HB3	1:C:571:SER:HB2	1.75	0.68
1:C:1443:GLN:NE2	1:C:1560:ASN:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:GLU:OE2	1:A:1607:ARG:NH2	2.26	0.68
1:B:1436:SER:HB3	1:B:1565:GLU:HB2	1.75	0.68
1:B:2107:GLN:O	1:B:3694:LYS:NZ	2.26	0.68
1:D:1857:GLU:HA	1:D:1860:LYS:HE2	1.74	0.68
1:A:1733:GLU:OE1	1:A:2140:ARG:NH2	2.26	0.68
1:A:4580:TYR:OH	1:A:4806:ASN:ND2	2.26	0.68
2:E:23:VAL:HG22	2:E:47:LYS:HG2	1.75	0.68
1:B:2470:ILE:HG22	1:B:2525:GLY:HA3	1.76	0.68
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.21	0.68
1:D:1638:ALA:HB1	1:D:1647:CYS:HB2	1.74	0.68
1:C:1733:GLU:OE1	1:C:2140:ARG:NH2	2.26	0.68
1:C:3143:LEU:HD13	1:C:3146:HIS:HE1	1.58	0.68
1:A:3354:LEU:HD12	1:A:3415:TYR:HD2	1.58	0.68
1:A:4961:CYS:SG	1:A:4978:HIS:HE1	2.15	0.68
1:B:22:LEU:HD21	1:B:37:LEU:HB3	1.76	0.68
1:B:915:GLU:O	1:B:919:ASN:N	2.26	0.68
1:B:1733:GLU:OE1	1:B:2140:ARG:NH2	2.26	0.68
1:D:915:GLU:O	1:D:919:ASN:N	2.27	0.68
1:D:1998:PHE:O	1:D:2005:GLN:NE2	2.27	0.68
1:C:22:LEU:HD21	1:C:37:LEU:HB3	1.76	0.68
1:C:4580:TYR:OH	1:C:4806:ASN:ND2	2.26	0.68
1:A:1998:PHE:O	1:A:2005:GLN:NE2	2.27	0.68
1:C:1100:MET:N	1:C:1125:ASN:OD1	2.26	0.68
1:B:1443:GLN:NE2	1:B:1560:ASN:O	2.27	0.68
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.75	0.67
1:B:645:ARG:HE	1:B:826:ILE:HG13	1.57	0.67
1:A:64:ILE:O	1:A:111:HIS:NE2	2.27	0.67
1:A:1100:MET:N	1:A:1125:ASN:OD1	2.26	0.67
1:A:3143:LEU:HD13	1:A:3146:HIS:HE1	1.58	0.67
1:A:3465:ASN:HA	1:A:3502:ARG:HG2	1.76	0.67
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.25	0.67
2:G:23:VAL:HG22	2:G:47:LYS:HG2	1.75	0.67
1:B:3959:LYS:O	1:B:3963:ASN:ND2	2.22	0.67
1:D:595:ARG:HH12	1:D:633:LEU:HD11	1.58	0.67
1:D:2470:ILE:HG22	1:D:2525:GLY:HA3	1.76	0.67
1:C:3141:THR:HG23	1:C:3145:GLN:HE22	1.59	0.67
1:A:1745:ILE:O	1:A:1964:ARG:NH2	2.27	0.67
1:B:4961:CYS:SG	1:B:4978:HIS:HE1	2.15	0.67
1:D:155:LYS:HG3	1:D:156:GLN:N	2.08	0.67
1:D:4877:ASP:O	1:C:4582:VAL:HG12	1.94	0.67
1:C:153:ALA:H	1:C:157:ARG:HG2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:GLU:O	1:C:919:ASN:N	2.27	0.67
1:A:1443:GLN:NE2	1:A:1560:ASN:O	2.27	0.67
1:A:1839:VAL:HG23	1:A:1935:VAL:HG22	1.77	0.67
1:A:2548:LEU:HB3	1:A:2552:ARG:NH1	2.10	0.67
1:B:64:ILE:O	1:B:111:HIS:NE2	2.27	0.67
1:D:1745:ILE:O	1:D:1964:ARG:NH2	2.27	0.67
1:A:22:LEU:HD21	1:A:37:LEU:HB3	1.76	0.67
1:A:1259:ARG:NH2	1:A:1595:LEU:O	2.27	0.67
1:A:2760:GLU:HA	1:A:2802:LYS:HZ1	1.57	0.67
1:A:3141:THR:HG23	1:A:3145:GLN:HE22	1.59	0.67
2:F:30:LEU:HD12	2:F:31:GLU:H	1.57	0.67
1:D:2393:ASP:O	1:D:2415:ARG:NH2	2.28	0.67
1:C:155:LYS:HG3	1:C:156:GLN:N	2.08	0.67
1:C:1453:VAL:HG12	1:C:1492:CYS:HB2	1.74	0.67
1:C:3981:ALA:O	1:C:3986:TRP:NE1	2.22	0.67
1:B:595:ARG:HH12	1:B:633:LEU:HD11	1.58	0.67
1:D:1252:HIS:HE1	1:D:1255:TYR:HD2	1.41	0.67
1:D:3768:SER:HA	1:D:3771:HIS:CD2	2.30	0.67
1:C:595:ARG:HH12	1:C:633:LEU:HD11	1.58	0.67
1:C:2548:LEU:HB3	1:C:2552:ARG:NH1	2.10	0.67
1:C:3465:ASN:HA	1:C:3502:ARG:HG2	1.76	0.67
1:B:1259:ARG:NH2	1:B:1595:LEU:O	2.27	0.67
1:D:1982:ARG:HG3	1:D:1986:MET:HE1	1.77	0.67
1:A:3990:VAL:HG13	1:A:4051:SER:HB2	1.77	0.67
1:B:1998:PHE:O	1:B:2005:GLN:NE2	2.27	0.67
1:D:14:LEU:HB3	1:D:101:LEU:HD12	1.77	0.67
1:C:2233:CYS:O	1:C:2234:ARG:C	2.38	0.67
1:A:14:LEU:HB3	1:A:101:LEU:HD12	1.77	0.67
1:A:153:ALA:H	1:A:157:ARG:HG2	1.60	0.67
1:B:2548:LEU:HB3	1:B:2552:ARG:NH1	2.10	0.67
1:D:22:LEU:HD21	1:D:37:LEU:HB3	1.76	0.67
1:D:1839:VAL:HG23	1:D:1935:VAL:HG22	1.77	0.67
1:C:1727:ARG:NH2	1:C:1773:PRO:O	2.25	0.67
1:C:1982:ARG:HG3	1:C:1986:MET:HE1	1.77	0.67
1:C:2470:ILE:HG22	1:C:2525:GLY:HA3	1.76	0.67
1:A:2674:LEU:HD11	1:A:2910:THR:HA	1.77	0.67
1:A:3768:SER:HA	1:A:3771:HIS:CD2	2.30	0.67
1:B:1089:TYR:OH	1:B:1091:GLU:OE1	2.13	0.67
1:B:1683:HIS:NE2	1:B:1798:LEU:O	2.17	0.67
1:B:2091:PRO:HB3	1:B:2096:GLU:HB2	1.77	0.67
1:B:2393:ASP:O	1:B:2415:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.30	0.67
1:D:64:ILE:O	1:D:111:HIS:NE2	2.27	0.67
1:D:153:ALA:H	1:D:157:ARG:HG2	1.59	0.67
1:D:1089:TYR:OH	1:D:1091:GLU:OE1	2.13	0.67
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.17	0.67
1:B:990:GLU:HG2	1:B:1024:TYR:HB3	1.77	0.66
1:B:1745:ILE:O	1:B:1964:ARG:NH2	2.27	0.66
1:B:2674:LEU:HD11	1:B:2910:THR:HA	1.77	0.66
1:D:2674:LEU:HD11	1:D:2910:THR:HA	1.77	0.66
1:C:850:ASP:O	1:C:1025:ARG:NH2	2.28	0.66
1:C:990:GLU:HG2	1:C:1024:TYR:HB3	1.77	0.66
1:C:2091:PRO:HB3	1:C:2096:GLU:HB2	1.77	0.66
1:C:2674:LEU:HD11	1:C:2910:THR:HA	1.77	0.66
1:A:1252:HIS:HE1	1:A:1255:TYR:HD2	1.41	0.66
1:D:3143:LEU:HD13	1:D:3146:HIS:HE1	1.58	0.66
1:D:4901:ILE:HG13	1:D:4913:ARG:HH21	1.60	0.66
1:C:2198:MET:HB2	1:C:2203:MET:HE3	1.78	0.66
1:C:2393:ASP:O	1:C:2415:ARG:NH2	2.28	0.66
1:C:4901:ILE:HG13	1:C:4913:ARG:HH21	1.60	0.66
1:B:2198:MET:HB2	1:B:2203:MET:HE3	1.78	0.66
1:B:3990:VAL:HG13	1:B:4051:SER:HB2	1.77	0.66
1:D:1436:SER:HB3	1:D:1565:GLU:HB2	1.75	0.66
1:C:64:ILE:O	1:C:111:HIS:NE2	2.27	0.66
1:C:2346:VAL:HG13	1:C:2349:ASN:HB2	1.78	0.66
1:C:4155:PRO:O	1:C:4161:ARG:NH1	2.27	0.66
1:B:119:SER:HA	1:B:148:TRP:HE1	1.60	0.66
1:D:850:ASP:O	1:D:1025:ARG:NH2	2.28	0.66
1:D:1259:ARG:NH2	1:D:1595:LEU:O	2.27	0.66
1:D:1443:GLN:NE2	1:D:1560:ASN:O	2.27	0.66
1:C:1745:ILE:O	1:C:1964:ARG:NH2	2.27	0.66
1:C:1998:PHE:O	1:C:2005:GLN:NE2	2.27	0.66
1:A:1089:TYR:OH	1:A:1091:GLU:OE1	2.13	0.66
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.61	0.66
1:B:102:LEU:HA	1:B:162:LYS:HA	1.78	0.66
1:D:2548:LEU:HB3	1:D:2552:ARG:NH1	2.10	0.66
1:C:3943:ILE:O	1:C:3948:LYS:NZ	2.28	0.66
1:A:119:SER:HA	1:A:148:TRP:HE1	1.60	0.66
1:A:2233:CYS:O	1:A:2234:ARG:C	2.38	0.66
1:A:2393:ASP:O	1:A:2415:ARG:NH2	2.28	0.66
1:B:1839:VAL:HG23	1:B:1935:VAL:HG22	1.77	0.66
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:VAL:HA	1:A:551:LEU:HD23	1.77	0.66
1:A:1999:ARG:HD3	1:A:3635:CYS:HB2	1.78	0.66
1:A:2615:ARG:NH2	1:A:2664:PHE:O	2.29	0.66
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.28	0.66
1:D:2615:ARG:NH2	1:D:2664:PHE:O	2.29	0.66
1:C:14:LEU:HB3	1:C:101:LEU:HD12	1.77	0.66
1:C:1929:MET:O	1:C:1930:LYS:HG3	1.96	0.66
1:C:3768:SER:HA	1:C:3771:HIS:CD2	2.30	0.66
1:A:595:ARG:HH12	1:A:633:LEU:HD11	1.58	0.66
1:A:915:GLU:O	1:A:919:ASN:N	2.27	0.66
1:A:990:GLU:HG2	1:A:1024:TYR:HB3	1.77	0.66
1:A:1929:MET:O	1:A:1930:LYS:HG3	1.96	0.66
1:A:3107:VAL:HG11	1:A:3171:SER:HB2	1.78	0.66
1:A:4901:ILE:HG13	1:A:4913:ARG:HH21	1.60	0.66
1:B:14:LEU:HB3	1:B:101:LEU:HD12	1.77	0.66
1:B:1252:HIS:HE1	1:B:1255:TYR:HD2	1.41	0.66
1:B:3539:ARG:NH1	1:B:3552:PHE:HB3	2.11	0.66
1:D:990:GLU:HG2	1:D:1024:TYR:HB3	1.77	0.66
1:C:34:LYS:N	1:C:53:SER:OG	2.28	0.66
1:C:1089:TYR:OH	1:C:1091:GLU:OE1	2.13	0.66
1:C:1259:ARG:NH2	1:C:1595:LEU:O	2.27	0.66
1:C:3986:TRP:HE3	1:C:4047:MET:HE3	1.61	0.66
1:C:3990:VAL:HG13	1:C:4051:SER:HB2	1.77	0.66
1:A:769:GLU:OE2	1:A:1475:THR:OG1	2.11	0.66
1:B:850:ASP:O	1:B:1025:ARG:NH2	2.28	0.66
1:B:2591:ARG:NH2	1:B:2636:PHE:O	2.29	0.66
1:B:3107:VAL:HG11	1:B:3171:SER:HB2	1.78	0.66
1:D:548:VAL:HA	1:D:551:LEU:HD23	1.77	0.66
1:D:3107:VAL:HG11	1:D:3171:SER:HB2	1.78	0.66
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.61	0.66
1:A:850:ASP:O	1:A:1025:ARG:NH2	2.28	0.66
1:B:442:ILE:HG23	1:B:446:GLN:HE22	1.61	0.66
1:B:3734:HIS:HD2	1:B:3736:GLU:H	1.44	0.66
1:D:2346:VAL:HG13	1:D:2349:ASN:HB2	1.77	0.66
1:D:2591:ARG:NH2	1:D:2636:PHE:O	2.29	0.66
1:A:2470:ILE:HG22	1:A:2525:GLY:HA3	1.76	0.65
1:A:3309:SER:OG	1:A:3348:ARG:NH2	2.30	0.65
1:B:4901:ILE:HG13	1:B:4913:ARG:HH21	1.60	0.65
1:D:2233:CYS:O	1:D:2234:ARG:C	2.38	0.65
1:D:3141:THR:HG23	1:D:3145:GLN:HE22	1.59	0.65
1:C:2591:ARG:NH2	1:C:2636:PHE:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1833:SER:HB3	1:B:1836:PHE:HD2	1.62	0.65
1:D:1929:MET:O	1:D:1930:LYS:HG3	1.96	0.65
1:B:221:ARG:NH2	1:B:397:GLU:OE1	2.28	0.65
1:D:3986:TRP:HE3	1:D:4047:MET:HE3	1.61	0.65
1:C:221:ARG:NH2	1:C:397:GLU:OE1	2.28	0.65
1:C:1252:HIS:HE1	1:C:1255:TYR:HD2	1.41	0.65
1:C:1839:VAL:HG23	1:C:1935:VAL:HG22	1.77	0.65
1:A:2091:PRO:HB3	1:A:2096:GLU:HB2	1.77	0.65
1:A:2198:MET:HB2	1:A:2203:MET:HE3	1.78	0.65
1:A:2303:ALA:HB2	1:A:2360:LYS:HD3	1.79	0.65
1:A:2970:SER:HA	1:A:2973:PHE:CE2	2.32	0.65
1:B:153:ALA:H	1:B:157:ARG:HG2	1.60	0.65
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.61	0.65
1:B:2346:VAL:HG13	1:B:2349:ASN:HB2	1.77	0.65
1:B:3986:TRP:HE3	1:B:4047:MET:HE3	1.61	0.65
1:D:3990:VAL:HG13	1:D:4051:SER:HB2	1.77	0.65
1:C:3734:HIS:HD2	1:C:3736:GLU:H	1.44	0.65
1:A:3145:GLN:HE21	1:A:3196:ARG:HD3	1.62	0.65
1:B:769:GLU:OE2	1:B:1475:THR:OG1	2.11	0.65
1:B:1982:ARG:HG3	1:B:1986:MET:HE1	1.77	0.65
1:B:3343:GLN:O	1:B:3414:ARG:NH1	2.30	0.65
1:D:2091:PRO:HB3	1:D:2096:GLU:HB2	1.77	0.65
1:D:2303:ALA:HB2	1:D:2360:LYS:HD3	1.79	0.65
1:D:2685:SER:HA	1:D:2688:HIS:CE1	2.32	0.65
1:D:3343:GLN:O	1:D:3414:ARG:NH1	2.30	0.65
1:C:2685:SER:HA	1:C:2688:HIS:CE1	2.32	0.65
1:C:3107:VAL:HG11	1:C:3171:SER:HB2	1.78	0.65
1:A:2760:GLU:HA	1:A:2802:LYS:NZ	2.11	0.65
1:B:548:VAL:HA	1:B:551:LEU:HD23	1.77	0.65
1:B:886:ARG:NH1	1:B:961:MET:SD	2.69	0.65
1:B:1929:MET:O	1:B:1930:LYS:HG3	1.96	0.65
1:D:102:LEU:HA	1:D:162:LYS:HA	1.78	0.65
1:D:3145:GLN:HE21	1:D:3196:ARG:HD3	1.62	0.65
1:C:1154:ASP:O	1:C:1158:ASN:N	2.29	0.65
1:C:1833:SER:HB3	1:C:1836:PHE:HD2	1.62	0.65
1:C:4958:CYS:SG	1:C:4961:CYS:CB	2.84	0.65
1:A:102:LEU:HA	1:A:162:LYS:HA	1.78	0.65
1:B:2615:ARG:NH2	1:B:2664:PHE:O	2.29	0.65
1:D:442:ILE:HG23	1:D:446:GLN:HE22	1.61	0.65
1:D:3309:SER:OG	1:D:3348:ARG:NH2	2.30	0.65
1:D:3553:LEU:HA	1:D:3556:ASN:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3145:GLN:HE21	1:C:3196:ARG:HD3	1.62	0.65
1:C:3309:SER:OG	1:C:3348:ARG:NH2	2.30	0.65
1:A:442:ILE:HG23	1:A:446:GLN:HE22	1.61	0.65
1:A:2346:VAL:HG13	1:A:2349:ASN:HB2	1.77	0.65
1:A:3986:TRP:HE3	1:A:4047:MET:HE3	1.61	0.65
1:A:4064:MET:HE1	1:A:4110:PHE:CE2	2.32	0.65
1:B:2685:SER:HA	1:B:2688:HIS:CE1	2.32	0.65
1:D:12:GLN:HG2	1:D:165:VAL:HB	1.79	0.65
1:D:2548:LEU:HB3	1:D:2552:ARG:HH12	1.62	0.65
1:D:2970:SER:HA	1:D:2973:PHE:CE2	2.32	0.65
1:C:769:GLU:OE2	1:C:1475:THR:OG1	2.11	0.65
1:C:1867:GLU:OE2	1:C:1928:GLN:NE2	2.29	0.65
1:C:2303:ALA:HB2	1:C:2360:LYS:HD3	1.79	0.65
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	1.79	0.65
1:B:4064:MET:HE1	1:B:4110:PHE:CE2	2.32	0.65
1:D:1999:ARG:HD3	1:D:3635:CYS:HB2	1.78	0.65
1:D:2198:MET:HB2	1:D:2203:MET:HE3	1.78	0.65
1:C:119:SER:HA	1:C:148:TRP:HE1	1.60	0.65
1:C:2760:GLU:HA	1:C:2802:LYS:NZ	2.11	0.65
1:A:1272:LEU:HD13	1:A:1289:LEU:HD21	1.79	0.65
1:A:1982:ARG:HG3	1:A:1986:MET:HE1	1.77	0.65
1:A:3343:GLN:O	1:A:3414:ARG:NH1	2.30	0.65
1:B:2771:ILE:O	1:B:2774:ASN:ND2	2.30	0.65
1:D:221:ARG:NH2	1:D:397:GLU:OE1	2.28	0.65
1:D:2760:GLU:HA	1:D:2802:LYS:NZ	2.11	0.65
1:D:3539:ARG:NH1	1:D:3552:PHE:HB3	2.11	0.65
1:C:2615:ARG:NH2	1:C:2664:PHE:O	2.29	0.65
1:A:2771:ILE:O	1:A:2774:ASN:ND2	2.30	0.64
1:B:1999:ARG:HD3	1:B:3635:CYS:HB2	1.78	0.64
1:B:2303:ALA:HB2	1:B:2360:LYS:HD3	1.79	0.64
1:B:2369[B]:ARG:NE	1:B:2369[B]:ARG:HA	2.12	0.64
1:B:3943:ILE:O	1:B:3948:LYS:NZ	2.28	0.64
1:B:4207:MET:SD	1:B:4208:PRO:HD2	2.37	0.64
1:D:156:GLN:HG2	1:D:164:ARG:HH22	1.62	0.64
1:A:491:ILE:HD11	1:A:522:LEU:HB3	1.80	0.64
1:A:2591:ARG:NH2	1:A:2636:PHE:O	2.29	0.64
1:A:3539:ARG:NH1	1:A:3552:PHE:HB3	2.11	0.64
1:A:4207:MET:SD	1:A:4208:PRO:HD2	2.37	0.64
1:A:4958:CYS:SG	1:A:4961:CYS:CB	2.84	0.64
1:B:491:ILE:HD11	1:B:522:LEU:HB3	1.80	0.64
1:D:119:SER:HA	1:D:148:TRP:HE1	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	1.79	0.64
1:C:548:VAL:HA	1:C:551:LEU:HD23	1.77	0.64
1:A:886:ARG:NH1	1:A:961:MET:SD	2.69	0.64
1:A:2369[B]:ARG:NE	1:A:2369[B]:ARG:HA	2.12	0.64
1:A:3824:LYS:HZ1	1:A:3908:GLY:HA3	1.62	0.64
1:B:224:HIS:O	1:C:155:LYS:NZ	2.30	0.64
1:B:3553:LEU:HA	1:B:3556:ASN:HB2	1.78	0.64
1:D:3943:ILE:O	1:D:3948:LYS:NZ	2.28	0.64
1:C:156:GLN:HG2	1:C:164:ARG:HH22	1.62	0.64
1:C:2369[B]:ARG:HA	1:C:2369[B]:ARG:NE	2.12	0.64
1:C:4064:MET:HE1	1:C:4110:PHE:CE2	2.32	0.64
1:B:34:LYS:N	1:B:53:SER:OG	2.28	0.64
1:B:1272:LEU:HD13	1:B:1289:LEU:HD21	1.79	0.64
1:B:2010:LEU:HD11	1:B:3653:PHE:HE1	1.63	0.64
1:B:2233:CYS:O	1:B:2234:ARG:C	2.38	0.64
1:B:3145:GLN:HE21	1:B:3196:ARG:HD3	1.62	0.64
1:B:4958:CYS:SG	1:B:4961:CYS:CB	2.84	0.64
1:D:2369[B]:ARG:NE	1:D:2369[B]:ARG:HA	2.12	0.64
1:C:442:ILE:HG23	1:C:446:GLN:HE22	1.61	0.64
1:C:3343:GLN:O	1:C:3414:ARG:NH1	2.30	0.64
1:A:222:LEU:HD13	1:A:388:LEU:HD22	1.79	0.64
1:A:1833:SER:HB3	1:A:1836:PHE:HD2	1.62	0.64
1:A:2685:SER:HA	1:A:2688:HIS:CE1	2.32	0.64
2:E:82:TYR:HE2	2:E:91:ILE:HD13	1.62	0.64
1:B:3309:SER:OG	1:B:3348:ARG:NH2	2.30	0.64
1:C:102:LEU:HA	1:C:162:LYS:HA	1.78	0.64
1:C:222:LEU:HD13	1:C:388:LEU:HD22	1.79	0.64
1:A:12:GLN:HG2	1:A:165:VAL:HB	1.79	0.64
1:B:156:GLN:HG2	1:B:164:ARG:HH22	1.62	0.64
1:D:769:GLU:OE2	1:D:1475:THR:OG1	2.11	0.64
1:D:772:ASN:H	1:D:1470:ARG:NH2	1.95	0.64
1:D:1660:GLN:HE22	1:D:1706:PRO:HB2	1.63	0.64
1:D:1833:SER:HB3	1:D:1836:PHE:HD2	1.62	0.64
1:D:4207:MET:SD	1:D:4208:PRO:HD2	2.37	0.64
1:C:886:ARG:NH1	1:C:961:MET:SD	2.69	0.64
1:C:2970:SER:HA	1:C:2973:PHE:CE2	2.32	0.64
1:C:2996:LYS:HE2	1:C:3000:LYS:HE3	1.80	0.64
1:A:214:VAL:HG22	1:A:341:TYR:HD1	1.63	0.64
1:B:971:ASP:HB3	1:B:974:HIS:ND1	2.13	0.64
1:C:971:ASP:HB3	1:C:974:HIS:ND1	2.13	0.64
1:C:2771:ILE:O	1:C:2774:ASN:ND2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3539:ARG:NH1	1:C:3552:PHE:HB3	2.11	0.64
1:C:3553:LEU:HA	1:C:3556:ASN:HB2	1.78	0.64
1:A:156:GLN:HG2	1:A:164:ARG:HH22	1.62	0.64
1:A:256:ALA:HB2	1:A:477:LEU:HD23	1.80	0.64
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	1.79	0.64
1:D:886:ARG:NH1	1:D:961:MET:SD	2.69	0.64
1:D:3734:HIS:HD2	1:D:3736:GLU:H	1.44	0.64
1:C:214:VAL:HG22	1:C:341:TYR:HD1	1.63	0.64
1:A:2548:LEU:HB3	1:A:2552:ARG:HH12	1.62	0.64
1:A:3553:LEU:HA	1:A:3556:ASN:HB2	1.78	0.64
2:H:82:TYR:HE2	2:H:91:ILE:HD13	1.62	0.64
1:B:266:ARG:NH2	1:B:272:SER:OG	2.31	0.64
1:B:2757:LYS:HG3	1:B:2830:GLU:HG3	1.80	0.64
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.32	0.64
1:B:4902:GLU:O	1:B:4913:ARG:NH2	2.31	0.64
1:D:266:ARG:NH2	1:D:272:SER:OG	2.31	0.64
1:D:971:ASP:HB3	1:D:974:HIS:ND1	2.13	0.64
1:D:4064:MET:HE1	1:D:4110:PHE:CE2	2.32	0.64
1:A:1660:GLN:HE22	1:A:1706:PRO:HB2	1.63	0.64
1:B:2583:LEU:HB3	1:B:2622:LEU:HD22	1.80	0.64
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.11	0.64
1:D:491:ILE:HD11	1:D:522:LEU:HB3	1.80	0.64
1:D:4155:PRO:O	1:D:4161:ARG:NH1	2.27	0.64
1:C:12:GLN:HG2	1:C:165:VAL:HB	1.79	0.64
1:C:1272:LEU:HD13	1:C:1289:LEU:HD21	1.79	0.64
1:A:266:ARG:NH2	1:A:272:SER:OG	2.31	0.63
1:A:772:ASN:H	1:A:1470:ARG:NH2	1.95	0.63
1:A:2010:LEU:HD11	1:A:3653:PHE:HE1	1.63	0.63
1:B:4155:PRO:O	1:B:4161:ARG:NH1	2.27	0.63
1:D:214:VAL:HG22	1:D:341:TYR:HD1	1.63	0.63
1:D:2289:ALA:O	1:D:2291:GLN:NE2	2.31	0.63
1:C:1660:GLN:HE22	1:C:1706:PRO:HB2	1.63	0.63
1:A:2757:LYS:HG3	1:A:2830:GLU:HG3	1.80	0.63
2:G:82:TYR:HE2	2:G:91:ILE:HD13	1.62	0.63
1:B:214:VAL:HG22	1:B:341:TYR:HD1	1.63	0.63
1:B:2548:LEU:HB3	1:B:2552:ARG:HH12	1.62	0.63
1:D:256:ALA:HB2	1:D:477:LEU:HD23	1.80	0.63
1:C:266:ARG:NH2	1:C:272:SER:OG	2.31	0.63
1:C:491:ILE:HD11	1:C:522:LEU:HB3	1.80	0.63
1:C:830:ARG:HH12	1:C:832:GLU:HB2	1.63	0.63
1:C:2548:LEU:HB3	1:C:2552:ARG:HH12	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4902:GLU:O	1:A:4913:ARG:NH2	2.31	0.63
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.81	0.63
1:D:1867:GLU:OE2	1:D:1928:GLN:NE2	2.29	0.63
1:C:4207:MET:SD	1:C:4208:PRO:HD2	2.37	0.63
1:A:1778:SER:OG	1:A:1797:ARG:NH2	2.32	0.63
1:A:1978:ALA:HA	1:A:1981:MET:HE3	1.81	0.63
2:F:82:TYR:HE2	2:F:91:ILE:HD13	1.62	0.63
1:B:1723:ALA:HB3	1:B:1851:MET:HE1	1.81	0.63
1:B:3204:ALA:O	1:B:3211:ASN:ND2	2.32	0.63
1:D:2996:LYS:HE2	1:D:3000:LYS:HE3	1.80	0.63
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.81	0.63
1:C:256:ALA:HB2	1:C:477:LEU:HD23	1.80	0.63
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	1.79	0.63
1:A:3734:HIS:HD2	1:A:3736:GLU:H	1.44	0.63
1:B:1154:ASP:O	1:B:1158:ASN:N	2.29	0.63
1:D:1723:ALA:HB3	1:D:1851:MET:HE1	1.81	0.63
1:C:2757:LYS:HG3	1:C:2830:GLU:HG3	1.80	0.63
1:A:3223:SER:OG	1:A:3226:GLU:OE1	2.13	0.63
1:B:12:GLN:HG2	1:B:165:VAL:HB	1.79	0.63
1:B:222:LEU:HD13	1:B:388:LEU:HD22	1.79	0.63
1:B:256:ALA:HB2	1:B:477:LEU:HD23	1.80	0.63
1:B:830:ARG:HH12	1:B:832:GLU:HB2	1.63	0.63
1:D:1154:ASP:O	1:D:1158:ASN:N	2.29	0.63
1:D:1978:ALA:HA	1:D:1981:MET:HE3	1.81	0.63
1:D:4661:TYR:OH	1:D:4788:SER:OG	2.16	0.63
1:D:4902:GLU:O	1:D:4913:ARG:NH2	2.31	0.63
1:C:2010:LEU:HD11	1:C:3653:PHE:HE1	1.63	0.63
1:A:676:THR:HG22	1:A:677:ALA:H	1.64	0.63
1:A:2583:LEU:HB3	1:A:2622:LEU:HD22	1.80	0.63
1:A:2911:LEU:O	1:A:2916:LYS:NZ	2.32	0.63
1:B:1660:GLN:HE22	1:B:1706:PRO:HB2	1.63	0.63
1:B:2765:LYS:HA	1:B:2768:PHE:HD2	1.64	0.63
1:B:2996:LYS:HE2	1:B:3000:LYS:HE3	1.80	0.63
1:D:1272:LEU:HD13	1:D:1289:LEU:HD21	1.79	0.63
1:D:2771:ILE:O	1:D:2774:ASN:ND2	2.30	0.63
1:D:4958:CYS:SG	1:D:4961:CYS:CB	2.84	0.63
1:C:1999:ARG:HD3	1:C:3635:CYS:HB2	1.78	0.63
1:C:3204:ALA:O	1:C:3211:ASN:ND2	2.32	0.63
1:C:3329:ILE:O	1:C:3403:ARG:NH1	2.32	0.63
1:A:620:LEU:O	1:A:624:ASN:ND2	2.30	0.63
1:B:340:LYS:HG2	1:B:343:GLU:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:222:LEU:HD13	1:D:388:LEU:HD22	1.79	0.63
1:D:830:ARG:HH12	1:D:832:GLU:HB2	1.63	0.63
1:D:2010:LEU:HD11	1:D:3653:PHE:HE1	1.63	0.63
1:D:3204:ALA:O	1:D:3211:ASN:ND2	2.32	0.63
1:C:676:THR:HG22	1:C:677:ALA:H	1.64	0.63
1:A:4846:VAL:HG21	1:D:4816:ILE:HD11	1.81	0.63
1:B:3282:PRO:HG2	1:B:3345:ILE:HG22	1.80	0.63
1:D:1778:SER:OG	1:D:1797:ARG:NH2	2.32	0.63
1:D:2757:LYS:HG3	1:D:2830:GLU:HG3	1.80	0.63
1:C:772:ASN:H	1:C:1470:ARG:NH2	1.95	0.63
1:C:2765:LYS:HA	1:C:2768:PHE:HD2	1.64	0.63
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.81	0.63
1:C:4902:GLU:O	1:C:4913:ARG:NH2	2.31	0.63
1:A:340:LYS:HG2	1:A:343:GLU:HB2	1.81	0.62
1:A:1723:ALA:HB3	1:A:1851:MET:HE1	1.81	0.62
1:A:1870:VAL:HG11	1:A:2097:LEU:HD22	1.81	0.62
1:A:2996:LYS:HE2	1:A:3000:LYS:HE3	1.80	0.62
1:A:4954:MET:HE1	1:A:4959:PHE:HB2	1.81	0.62
1:D:3282:PRO:HG2	1:D:3345:ILE:HG22	1.80	0.62
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.81	0.62
1:B:676:THR:HG22	1:B:677:ALA:H	1.64	0.62
1:B:2948:THR:HG22	1:B:2949:SER:H	1.64	0.62
1:C:1723:ALA:HB3	1:C:1851:MET:HE1	1.81	0.62
1:C:1870:VAL:HG11	1:C:2097:LEU:HD22	1.81	0.62
1:A:221:ARG:NH2	1:A:397:GLU:OE1	2.28	0.62
1:A:2199:ARG:NH1	1:A:2246:ASN:OD1	2.32	0.62
1:B:1229:ASN:O	1:B:1230:MET:HE2	2.00	0.62
1:D:842:PRO:HG3	1:D:1073:ARG:HG3	1.81	0.62
1:D:2583:LEU:HB3	1:D:2622:LEU:HD22	1.80	0.62
1:A:830:ARG:HH12	1:A:832:GLU:HB2	1.63	0.62
1:A:3282:PRO:HG2	1:A:3345:ILE:HG22	1.80	0.62
1:B:620:LEU:O	1:B:624:ASN:ND2	2.30	0.62
1:B:2199:ARG:NH1	1:B:2246:ASN:OD1	2.32	0.62
1:D:155:LYS:HZ2	1:C:225:GLY:HA2	1.64	0.62
1:D:620:LEU:O	1:D:624:ASN:ND2	2.30	0.62
1:D:676:THR:HG22	1:D:677:ALA:H	1.64	0.62
1:C:1778:SER:OG	1:C:1797:ARG:NH2	2.32	0.62
1:A:248:GLU:OE1	1:A:257:ARG:NH2	2.33	0.62
1:A:3329:ILE:O	1:A:3403:ARG:NH1	2.32	0.62
2:G:24:VAL:HG12	2:G:103:LEU:HD13	1.81	0.62
1:B:1978:ALA:HA	1:B:1981:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3329:ILE:O	1:B:3403:ARG:NH1	2.32	0.62
1:D:935:LEU:HD21	1:D:987:ARG:HD2	1.81	0.62
1:D:1870:VAL:HG21	1:D:2097:LEU:HD13	1.82	0.62
1:C:2583:LEU:HB3	1:C:2622:LEU:HD22	1.80	0.62
1:C:2911:LEU:O	1:C:2916:LYS:NZ	2.32	0.62
1:A:1140:GLY:HA3	1:A:1169:LEU:HD23	1.82	0.62
1:A:1245:PHE:HB3	1:A:1290:ARG:NH2	2.15	0.62
1:A:3324:VAL:HA	1:A:3327:LEU:HG	1.82	0.62
1:B:248:GLU:OE1	1:B:257:ARG:NH2	2.33	0.62
1:B:1778:SER:OG	1:B:1797:ARG:NH2	2.32	0.62
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.81	0.62
1:D:1140:GLY:HA3	1:D:1169:LEU:HD23	1.82	0.62
1:D:1240:LYS:HB3	1:D:1604:SER:O	2.00	0.62
1:D:4954:MET:HE1	1:D:4959:PHE:HB2	1.81	0.62
1:C:935:LEU:HD21	1:C:987:ARG:HD2	1.82	0.62
1:C:2219:GLU:HB2	1:C:2263:ILE:HG12	1.82	0.62
1:C:3282:PRO:HG2	1:C:3345:ILE:HG22	1.80	0.62
1:A:935:LEU:HD21	1:A:987:ARG:HD2	1.82	0.62
1:A:1229:ASN:O	1:A:1230:MET:HE2	2.00	0.62
1:A:1870:VAL:HG21	1:A:2097:LEU:HD13	1.82	0.62
1:A:3204:ALA:O	1:A:3211:ASN:ND2	2.32	0.62
1:A:4155:PRO:O	1:A:4161:ARG:NH1	2.27	0.62
1:B:772:ASN:H	1:B:1470:ARG:NH2	1.95	0.62
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.17	0.62
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.00	0.62
1:D:340:LYS:HG2	1:D:343:GLU:HB2	1.81	0.62
1:D:1870:VAL:HG11	1:D:2097:LEU:HD22	1.81	0.62
1:D:2948:THR:HG22	1:D:2949:SER:H	1.64	0.62
1:A:1294:PRO:HB3	1:A:1549:PHE:HE1	1.65	0.62
1:A:2272:PRO:HA	1:A:2275:VAL:HG12	1.82	0.62
1:A:2289:ALA:O	1:A:2291:GLN:NE2	2.31	0.62
1:B:856:VAL:HB	1:B:991:ASN:HD21	1.65	0.62
1:B:1140:GLY:HA3	1:B:1169:LEU:HD23	1.82	0.62
1:B:1245:PHE:HB3	1:B:1290:ARG:NH2	2.15	0.62
1:D:248:GLU:OE1	1:D:257:ARG:NH2	2.33	0.62
1:D:2765:LYS:HA	1:D:2768:PHE:HD2	1.64	0.62
1:D:2911:LEU:O	1:D:2916:LYS:NZ	2.32	0.62
1:D:3329:ILE:O	1:D:3403:ARG:NH1	2.32	0.62
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.17	0.62
1:C:4661:TYR:OH	1:C:4788:SER:OG	2.16	0.62
1:C:4989:MET:HA	1:C:4989:MET:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4152:GLU:OE1	1:A:4192:ARG:NH1	2.31	0.62
1:A:4989:MET:HA	1:A:4989:MET:HE3	1.82	0.62
2:H:24:VAL:HG12	2:H:103:LEU:HD13	1.81	0.62
1:B:2272:PRO:HA	1:B:2275:VAL:HG12	1.82	0.62
1:B:3539:ARG:HH12	1:B:3549:VAL:HA	1.64	0.62
1:B:3995:VAL:O	1:B:3999:MET:HG2	2.00	0.62
1:D:402:ARG:NH1	1:D:402:ARG:O	2.33	0.62
1:D:856:VAL:HB	1:D:991:ASN:HD21	1.65	0.62
1:D:1245:PHE:HB3	1:D:1290:ARG:NH2	2.15	0.62
1:D:1294:PRO:HB3	1:D:1549:PHE:HE1	1.65	0.62
1:D:1462:MET:N	1:D:1462:MET:SD	2.73	0.62
1:D:2272:PRO:HA	1:D:2275:VAL:HG12	1.82	0.62
1:C:856:VAL:HB	1:C:991:ASN:HD21	1.65	0.62
1:C:1245:PHE:HB3	1:C:1290:ARG:NH2	2.15	0.62
1:C:2610:LEU:HD23	1:C:2614:ILE:HD11	1.81	0.62
1:C:3321:ARG:HA	1:C:3324:VAL:HG22	1.82	0.62
1:B:402:ARG:NH1	1:B:402:ARG:O	2.33	0.62
1:B:2219:GLU:HB2	1:B:2263:ILE:HG12	1.81	0.62
1:B:4031:LEU:HG	1:B:4044:MET:HE1	1.82	0.62
1:D:2530:MET:HE1	1:D:2589:LEU:HD11	1.82	0.62
1:D:3321:ARG:HA	1:D:3324:VAL:HG22	1.82	0.62
1:C:402:ARG:NH1	1:C:402:ARG:O	2.33	0.62
1:C:3504:SER:HB2	1:C:3507:THR:HG23	1.81	0.62
1:B:2610:LEU:HD23	1:B:2614:ILE:HD11	1.81	0.61
1:C:340:LYS:HG2	1:C:343:GLU:HB2	1.81	0.61
1:C:3995:VAL:O	1:C:3999:MET:HG2	2.00	0.61
1:C:4242:ILE:O	1:C:4246:GLN:NE2	2.33	0.61
1:A:842:PRO:HG3	1:A:1073:ARG:HG3	1.81	0.61
1:A:861:ILE:HA	1:A:930:LYS:HE2	1.82	0.61
1:A:2530:MET:HE1	1:A:2589:LEU:HD11	1.82	0.61
1:A:2765:LYS:HA	1:A:2768:PHE:HD2	1.64	0.61
1:A:3995:VAL:O	1:A:3999:MET:HG2	2.00	0.61
1:A:4242:ILE:O	1:A:4246:GLN:NE2	2.33	0.61
1:B:1130:GLN:HE22	1:B:1136:SER:HB2	1.65	0.61
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.66	0.61
1:B:3504:SER:HB2	1:B:3507:THR:HG23	1.81	0.61
1:B:4242:ILE:O	1:B:4246:GLN:NE2	2.33	0.61
1:B:4954:MET:HE1	1:B:4959:PHE:HB2	1.81	0.61
1:D:639:ASN:N	1:D:678:GLN:OE1	2.33	0.61
1:D:2199:ARG:NH1	1:D:2246:ASN:OD1	2.32	0.61
1:D:3223:SER:OG	1:D:3226:GLU:OE1	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:ASN:N	1:C:678:GLN:OE1	2.33	0.61
1:C:1130:GLN:HE22	1:C:1136:SER:HB2	1.65	0.61
1:C:1462:MET:SD	1:C:1462:MET:N	2.73	0.61
1:A:884:LEU:HG	1:A:955:LEU:HD21	1.82	0.61
1:A:1506:GLN:NE2	1:D:2772:GLN:HG3	2.15	0.61
1:B:225:GLY:HA2	1:C:155:LYS:NZ	2.16	0.61
1:D:3324:VAL:HA	1:D:3327:LEU:HG	1.82	0.61
1:C:349:GLN:NE2	1:C:355:LEU:O	2.34	0.61
1:C:1245:PHE:HB3	1:C:1290:ARG:CZ	2.31	0.61
1:C:2199:ARG:NH1	1:C:2246:ASN:OD1	2.32	0.61
1:C:2289:ALA:O	1:C:2291:GLN:NE2	2.31	0.61
1:C:3057:PHE:HB3	1:C:3060:ASP:HB2	1.82	0.61
1:A:1743[A]:ARG:NH2	1:A:1967:ASP:OD2	2.32	0.61
1:A:2500:ALA:HB2	1:A:2553:TYR:HD1	1.65	0.61
1:A:3321:ARG:HA	1:A:3324:VAL:HG22	1.82	0.61
1:A:4056:GLU:HG2	1:A:4166:LEU:HD22	1.82	0.61
1:B:1240:LYS:HB3	1:B:1604:SER:O	2.00	0.61
1:B:1462:MET:N	1:B:1462:MET:SD	2.73	0.61
1:B:3321:ARG:HA	1:B:3324:VAL:HG22	1.82	0.61
1:D:4056:GLU:HG2	1:D:4166:LEU:HD22	1.82	0.61
1:C:1140:GLY:HA3	1:C:1169:LEU:HD23	1.82	0.61
1:C:1978:ALA:HA	1:C:1981:MET:HE3	1.80	0.61
1:C:2272:PRO:HA	1:C:2275:VAL:HG12	1.82	0.61
1:A:1240:LYS:HB3	1:A:1604:SER:O	2.00	0.61
1:A:1619:ARG:HB2	1:A:1626:TRP:CE2	2.36	0.61
1:A:1990:GLU:OE1	1:A:1993:ARG:NH2	2.32	0.61
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.65	0.61
1:A:2519:LEU:HD22	1:A:2575:ARG:HG2	1.82	0.61
1:B:1245:PHE:HB3	1:B:1290:ARG:CZ	2.31	0.61
1:B:2911:LEU:O	1:B:2916:LYS:NZ	2.32	0.61
1:D:1229:ASN:O	1:D:1230:MET:HE2	2.00	0.61
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.65	0.61
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.00	0.61
1:D:3995:VAL:O	1:D:3999:MET:HG2	2.00	0.61
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.00	0.61
1:C:3539:ARG:HH12	1:C:3549:VAL:HA	1.64	0.61
1:A:2219:GLU:HB2	1:A:2263:ILE:HG12	1.81	0.61
1:A:2610:LEU:HD23	1:A:2614:ILE:HD11	1.81	0.61
1:A:3504:SER:HB2	1:A:3507:THR:HG23	1.82	0.61
1:B:861:ILE:HA	1:B:930:LYS:HE2	1.82	0.61
1:D:1130:GLN:HE22	1:D:1136:SER:HB2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1990:GLU:OE1	1:D:1993:ARG:NH2	2.32	0.61
1:C:248:GLU:OE1	1:C:257:ARG:NH2	2.33	0.61
1:C:842:PRO:HG3	1:C:1073:ARG:HG3	1.82	0.61
1:C:3895:HIS:NE2	1:C:3970:GLN:OE1	2.34	0.61
1:A:1245:PHE:HB3	1:A:1290:ARG:CZ	2.31	0.61
1:A:4031:LEU:HG	1:A:4044:MET:HE1	1.82	0.61
1:B:2103:VAL:O	1:B:2107:GLN:NE2	2.34	0.61
1:B:2760:GLU:HA	1:B:2802:LYS:HZ1	1.64	0.61
1:B:4892:ARG:HH12	1:C:4898:GLY:H	1.49	0.61
1:D:2410:PRO:HB2	1:D:2413:GLU:HA	1.82	0.61
1:D:2519:LEU:HD22	1:D:2575:ARG:HG2	1.82	0.61
1:D:2760:GLU:HA	1:D:2802:LYS:HZ1	1.65	0.61
1:C:2140:ARG:HH22	1:C:2201:LEU:HD23	1.66	0.61
1:A:856:VAL:HB	1:A:991:ASN:HD21	1.65	0.61
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.00	0.61
1:B:349:GLN:NE2	1:B:355:LEU:O	2.34	0.61
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.83	0.61
1:B:842:PRO:HG3	1:B:1073:ARG:HG3	1.81	0.61
1:B:1619:ARG:HB2	1:B:1626:TRP:CE2	2.36	0.61
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	1.83	0.61
1:B:4152:GLU:OE1	1:B:4192:ARG:NH1	2.31	0.61
1:D:34:LYS:N	1:D:53:SER:OG	2.28	0.61
1:D:1245:PHE:HB3	1:D:1290:ARG:CZ	2.31	0.61
1:D:4989:MET:HE3	1:D:4989:MET:HA	1.82	0.61
1:C:1240:LYS:HB3	1:C:1604:SER:O	2.00	0.61
1:C:1990:GLU:OE1	1:C:1993:ARG:NH2	2.32	0.61
1:C:2410:PRO:HB2	1:C:2413:GLU:HA	1.82	0.61
1:C:4031:LEU:HG	1:C:4044:MET:HE1	1.82	0.61
1:A:1867:GLU:OE2	1:A:1928:GLN:NE2	2.29	0.61
1:A:2621:HIS:HA	1:A:2624:ARG:HE	1.66	0.61
2:E:18:ARG:HH11	2:E:51:GLY:HA3	1.65	0.61
2:E:24:VAL:HG12	2:E:103:LEU:HD13	1.81	0.61
2:H:18:ARG:HH11	2:H:51:GLY:HA3	1.65	0.61
1:B:935:LEU:HD21	1:B:987:ARG:HD2	1.82	0.61
1:D:349:GLN:NE2	1:D:355:LEU:O	2.34	0.61
1:D:884:LEU:HG	1:D:955:LEU:HD21	1.82	0.61
1:D:1224:GLU:OE2	1:D:1827:ARG:NH1	2.34	0.61
1:D:2610:LEU:HD23	1:D:2614:ILE:HD11	1.81	0.61
1:C:2948:THR:HG22	1:C:2949:SER:H	1.64	0.61
1:C:4897:ILE:O	1:C:4901:ILE:HG22	2.01	0.61
1:A:349:GLN:NE2	1:A:355:LEU:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1130:GLN:HE22	1:A:1136:SER:HB2	1.65	0.61
1:A:1224:GLU:OE2	1:A:1827:ARG:NH1	2.34	0.61
1:A:1462:MET:N	1:A:1462:MET:SD	2.73	0.61
1:A:2948:THR:HG22	1:A:2949:SER:H	1.64	0.61
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	1.83	0.61
2:E:76:ILE:O	2:E:96:THR:OG1	2.19	0.61
1:B:884:LEU:HG	1:B:955:LEU:HD21	1.82	0.61
1:B:4056:GLU:HG2	1:B:4166:LEU:HD22	1.82	0.61
1:D:3057:PHE:HB3	1:D:3060:ASP:HB2	1.82	0.61
1:C:365:LYS:HE2	1:C:369:LEU:HD21	1.83	0.61
1:C:1294:PRO:HB3	1:C:1549:PHE:HE1	1.65	0.61
1:C:2530:MET:HE1	1:C:2589:LEU:HD11	1.82	0.61
1:C:4680:LYS:O	1:C:4685:GLY:N	2.34	0.61
1:A:3376:GLU:HB3	1:A:3380:ARG:NH1	2.16	0.60
1:B:1870:VAL:HG21	1:B:2097:LEU:HD13	1.82	0.60
1:B:3289:PRO:HG2	1:B:3308:THR:HG22	1.83	0.60
1:B:3324:VAL:HA	1:B:3327:LEU:HG	1.82	0.60
1:B:4897:ILE:O	1:B:4901:ILE:HG22	2.01	0.60
1:D:861:ILE:HA	1:D:930:LYS:HE2	1.83	0.60
1:D:1271:ARG:NH2	1:D:1560:ASN:OD1	2.34	0.60
1:D:3376:GLU:HB3	1:D:3380:ARG:NH1	2.16	0.60
1:D:3504:SER:HB2	1:D:3507:THR:HG23	1.81	0.60
1:C:620:LEU:O	1:C:624:ASN:ND2	2.30	0.60
1:C:2103:VAL:O	1:C:2107:GLN:NE2	2.34	0.60
1:C:3980:LEU:HD23	1:C:4030:LEU:HD21	1.84	0.60
1:C:4056:GLU:HG2	1:C:4166:LEU:HD22	1.82	0.60
1:A:446:GLN:HE21	1:A:521:LEU:HD13	1.66	0.60
1:A:880:GLU:OE2	1:A:952:LYS:NZ	2.34	0.60
1:A:971:ASP:HB3	1:A:974:HIS:ND1	2.13	0.60
1:A:2103:VAL:O	1:A:2107:GLN:NE2	2.34	0.60
2:H:76:ILE:O	2:H:96:THR:OG1	2.19	0.60
2:F:18:ARG:HH11	2:F:51:GLY:HA3	1.65	0.60
1:B:225:GLY:HA2	1:C:155:LYS:HZ2	1.65	0.60
1:B:2410:PRO:HB2	1:B:2413:GLU:HA	1.82	0.60
1:B:2621:HIS:HA	1:B:2624:ARG:HE	1.66	0.60
1:D:1619:ARG:HB2	1:D:1626:TRP:CE2	2.36	0.60
1:D:2219:GLU:HB2	1:D:2263:ILE:HG12	1.82	0.60
1:D:3206:LEU:HB3	1:D:3246:LEU:HB2	1.83	0.60
1:C:1229:ASN:O	1:C:1230:MET:HE2	2.00	0.60
1:A:3980:LEU:HD23	1:A:4030:LEU:HD21	1.84	0.60
2:F:24:VAL:HG12	2:F:103:LEU:HD13	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:880:GLU:OE2	1:B:952:LYS:NZ	2.34	0.60
1:B:1224:GLU:OE2	1:B:1827:ARG:NH1	2.34	0.60
1:B:1743[A]:ARG:NH2	1:B:1967:ASP:OD2	2.32	0.60
1:D:2140:ARG:HH22	1:D:2201:LEU:HD23	1.66	0.60
1:D:3895:HIS:NE2	1:D:3970:GLN:OE1	2.34	0.60
1:D:3980:LEU:HD23	1:D:4030:LEU:HD21	1.84	0.60
1:C:884:LEU:HG	1:C:955:LEU:HD21	1.82	0.60
1:C:1870:VAL:HG21	1:C:2097:LEU:HD13	1.82	0.60
1:C:3289:PRO:HG2	1:C:3308:THR:HG22	1.83	0.60
1:C:3324:VAL:HA	1:C:3327:LEU:HG	1.82	0.60
1:C:4954:MET:HE1	1:C:4959:PHE:HB2	1.81	0.60
1:A:402:ARG:NH1	1:A:402:ARG:O	2.33	0.60
1:A:3057:PHE:HB3	1:A:3060:ASP:HB2	1.82	0.60
2:H:52:LYS:N	2:H:52:LYS:HD2	2.17	0.60
1:B:1271:ARG:NH2	1:B:1560:ASN:OD1	2.34	0.60
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	1.84	0.60
1:B:4691:GLN:OE1	1:B:4692:PRO:HD2	2.02	0.60
1:D:2500:ALA:HB2	1:D:2553:TYR:HD1	1.65	0.60
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.83	0.60
1:D:3289:PRO:HG2	1:D:3308:THR:HG22	1.83	0.60
1:C:861:ILE:HA	1:C:930:LYS:HE2	1.82	0.60
1:C:1619:ARG:HB2	1:C:1626:TRP:CE2	2.36	0.60
1:C:2354:VAL:HG11	1:C:2453:ILE:HD12	1.84	0.60
1:A:419:ASP:OD1	1:A:493:ARG:NH1	2.35	0.60
1:A:1154:ASP:O	1:A:1158:ASN:N	2.29	0.60
1:A:3289:PRO:HG2	1:A:3308:THR:HG22	1.83	0.60
1:A:4750:ILE:O	1:A:4756:ARG:NH1	2.35	0.60
1:B:937:CYS:HA	1:B:1054:GLU:O	2.02	0.60
1:B:2530:MET:HE1	1:B:2589:LEU:HD11	1.82	0.60
1:B:3824:LYS:HZ1	1:B:3908:GLY:HA3	1.66	0.60
1:B:4750:ILE:O	1:B:4756:ARG:NH1	2.35	0.60
1:D:59:PRO:HD2	1:D:304:ALA:HB1	1.84	0.60
1:D:4897:ILE:O	1:D:4901:ILE:HG22	2.01	0.60
1:C:1224:GLU:OE2	1:C:1827:ARG:NH1	2.34	0.60
1:C:1225:PRO:HB2	1:C:1228:ILE:HB	1.83	0.60
1:C:3824:LYS:HZ1	1:C:3908:GLY:HA3	1.67	0.60
1:A:34:LYS:N	1:A:53:SER:OG	2.28	0.60
1:A:1140:GLY:HA2	1:D:3479:ALA:HB1	1.83	0.60
2:G:48:PHE:HZ	2:G:63:VAL:HG11	1.67	0.60
2:F:76:ILE:O	2:F:96:THR:OG1	2.19	0.60
1:B:446:GLN:HE21	1:B:521:LEU:HD13	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1294:PRO:HB3	1:B:1549:PHE:HE1	1.65	0.60
1:B:2140:ARG:HH22	1:B:2201:LEU:HD23	1.66	0.60
1:B:3980:LEU:HD23	1:B:4030:LEU:HD21	1.84	0.60
1:B:4680:LYS:O	1:B:4685:GLY:N	2.34	0.60
1:B:4989:MET:HA	1:B:4989:MET:HE3	1.82	0.60
1:D:2949:SER:O	1:D:2952:GLU:HG3	2.02	0.60
1:D:3539:ARG:HH12	1:D:3549:VAL:HA	1.64	0.60
1:D:4031:LEU:HG	1:D:4044:MET:HE1	1.82	0.60
1:C:419:ASP:OD1	1:C:493:ARG:NH1	2.35	0.60
1:C:2949:SER:O	1:C:2952:GLU:HG3	2.02	0.60
1:C:3206:LEU:HB3	1:C:3246:LEU:HB2	1.83	0.60
1:A:1247:PRO:HA	1:A:1598:GLN:HG2	1.83	0.60
1:A:2699:ALA:HB1	1:A:3001:ILE:HD11	1.83	0.60
1:A:2949:SER:O	1:A:2952:GLU:HG3	2.02	0.60
2:E:52:LYS:N	2:E:52:LYS:HD2	2.17	0.60
1:B:1225:PRO:HB2	1:B:1228:ILE:HB	1.84	0.60
1:D:880:GLU:OE2	1:D:952:LYS:NZ	2.34	0.60
1:D:1247:PRO:HA	1:D:1598:GLN:HG2	1.83	0.60
1:D:2165:LEU:HD13	1:D:2178:MET:HB3	1.84	0.60
1:D:3206:LEU:HD13	1:D:3246:LEU:HD13	1.84	0.60
1:D:4240:ASP:OD1	1:D:4675:LYS:NZ	2.34	0.60
1:D:4242:ILE:O	1:D:4246:GLN:NE2	2.33	0.60
1:D:4768:LEU:HA	1:D:4771:ILE:HD12	1.84	0.60
1:C:1648:MET:SD	1:C:1656:ARG:NH2	2.75	0.60
1:C:1743[A]:ARG:NH2	1:C:1967:ASP:OD2	2.32	0.60
1:C:3395:ARG:O	1:C:3399:SER:N	2.34	0.60
1:A:2165:LEU:HD13	1:A:2178:MET:HB3	1.84	0.60
1:B:3057:PHE:HB3	1:B:3060:ASP:HB2	1.82	0.60
1:B:3206:LEU:HB3	1:B:3246:LEU:HB2	1.83	0.60
1:D:2103:VAL:O	1:D:2107:GLN:NE2	2.34	0.60
1:C:73:LEU:O	1:C:106:ALA:N	2.33	0.60
1:C:1271:ARG:NH2	1:C:1560:ASN:OD1	2.34	0.60
1:C:2500:ALA:HB2	1:C:2553:TYR:HD1	1.65	0.60
1:C:2699:ALA:HB1	1:C:3001:ILE:HD11	1.83	0.60
1:A:937:CYS:HA	1:A:1054:GLU:O	2.02	0.60
1:A:2655:TYR:HD2	1:A:2709:ALA:HB1	1.67	0.60
1:A:3895:HIS:NE2	1:A:3970:GLN:OE1	2.34	0.60
2:F:52:LYS:N	2:F:52:LYS:HD2	2.17	0.60
1:B:1247:PRO:HA	1:B:1598:GLN:HG2	1.83	0.60
1:B:2165:LEU:HD13	1:B:2178:MET:HB3	1.84	0.60
1:B:2519:LEU:HD22	1:B:2575:ARG:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3675:ASP:OD1	1:D:3676:ASP:N	2.35	0.60
1:D:3731:LYS:HA	1:D:3734:HIS:CE1	2.37	0.60
1:C:59:PRO:HD2	1:C:304:ALA:HB1	1.84	0.60
1:A:59:PRO:HD2	1:A:304:ALA:HB1	1.84	0.60
1:A:103:TYR:HD2	1:A:161:GLU:HB3	1.67	0.60
1:A:1101:ARG:HG3	1:A:1125:ASN:HB2	1.84	0.60
1:A:1995:THR:O	1:A:1999:ARG:HG2	2.02	0.60
1:B:2949:SER:O	1:B:2952:GLU:HG3	2.02	0.60
1:B:3376:GLU:HB3	1:B:3380:ARG:NH1	2.16	0.60
1:B:4661:TYR:OH	1:B:4788:SER:OG	2.15	0.60
1:D:340:LYS:HB3	1:D:344:SER:HB2	1.84	0.60
1:D:1240:LYS:O	1:D:1603:VAL:HA	2.02	0.60
1:D:1648:MET:SD	1:D:1656:ARG:NH2	2.75	0.60
1:D:3395:ARG:O	1:D:3399:SER:N	2.34	0.60
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.02	0.60
1:C:880:GLU:OE2	1:C:952:LYS:NZ	2.34	0.60
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.65	0.60
1:C:2519:LEU:HD22	1:C:2575:ARG:HG2	1.82	0.60
1:C:2655:TYR:HD2	1:C:2709:ALA:HB1	1.67	0.60
1:C:3206:LEU:HD13	1:C:3246:LEU:HD13	1.84	0.60
1:A:365:LYS:HE2	1:A:369:LEU:HD21	1.83	0.59
1:A:1271:ARG:NH2	1:A:1560:ASN:OD1	2.34	0.59
2:E:54:GLU:HG2	2:E:55:VAL:HG23	1.84	0.59
1:B:365:LYS:HA	1:B:368:ARG:HG2	1.84	0.59
1:B:1995:THR:O	1:B:1999:ARG:HG2	2.02	0.59
1:B:3675:ASP:OD1	1:B:3676:ASP:N	2.35	0.59
1:D:419:ASP:OD1	1:D:493:ARG:NH1	2.35	0.59
1:D:2683:PHE:HE2	1:D:2966:TRP:HE1	1.50	0.59
1:D:3183:VAL:HG22	1:D:3187:ARG:HG3	1.83	0.59
1:C:1163:THR:HG22	1:C:1168:VAL:HG22	1.84	0.59
1:C:1995:THR:O	1:C:1999:ARG:HG2	2.02	0.59
1:C:2165:LEU:HD13	1:C:2178:MET:HB3	1.84	0.59
1:C:4691:GLN:OE1	1:C:4692:PRO:HD2	2.02	0.59
1:A:2140:ARG:HH22	1:A:2201:LEU:HD23	1.66	0.59
1:A:3539:ARG:HH12	1:A:3549:VAL:HA	1.64	0.59
1:A:4897:ILE:O	1:A:4901:ILE:HG22	2.01	0.59
1:B:73:LEU:O	1:B:106:ALA:N	2.33	0.59
1:B:639:ASN:N	1:B:678:GLN:OE1	2.33	0.59
1:B:645:ARG:HH21	1:B:826:ILE:HG23	1.67	0.59
1:D:365:LYS:HE2	1:D:369:LEU:HD21	1.83	0.59
1:D:425:PRO:HA	1:D:506:TYR:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:971:ASP:O	1:D:974:HIS:ND1	2.36	0.59
1:D:2621:HIS:HA	1:D:2624:ARG:HE	1.66	0.59
1:C:2683:PHE:HE2	1:C:2966:TRP:HE1	1.50	0.59
1:C:3180:ASN:OD1	1:C:3181:THR:N	2.35	0.59
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.02	0.59
2:E:48:PHE:HZ	2:E:63:VAL:HG11	1.67	0.59
2:G:18:ARG:HH11	2:G:51:GLY:HA3	1.65	0.59
1:D:645:ARG:HH21	1:D:826:ILE:HG23	1.67	0.59
1:D:937:CYS:HA	1:D:1054:GLU:O	2.02	0.59
1:D:4152:GLU:OE1	1:D:4192:ARG:NH1	2.31	0.59
1:C:1660:GLN:HE21	1:C:1707:LEU:HG	1.67	0.59
1:C:3376:GLU:HB3	1:C:3380:ARG:NH1	2.16	0.59
1:A:2522:LEU:HD23	1:A:2526:PHE:HD2	1.68	0.59
1:A:3206:LEU:HD13	1:A:3246:LEU:HD13	1.84	0.59
1:A:3731:LYS:HA	1:A:3734:HIS:CE1	2.37	0.59
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.34	0.59
1:A:4680:LYS:O	1:A:4685:GLY:N	2.34	0.59
2:H:48:PHE:HZ	2:H:63:VAL:HG11	1.67	0.59
2:H:54:GLU:HG2	2:H:55:VAL:HG23	1.84	0.59
2:F:48:PHE:HZ	2:F:63:VAL:HG11	1.67	0.59
1:B:103:TYR:HD2	1:B:161:GLU:HB3	1.67	0.59
1:B:2683:PHE:HE2	1:B:2966:TRP:HE1	1.50	0.59
1:B:3183:VAL:HG22	1:B:3187:ARG:HG3	1.83	0.59
1:B:3206:LEU:HD13	1:B:3246:LEU:HD13	1.84	0.59
1:B:3997:ALA:HA	1:B:4000:MET:SD	2.42	0.59
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.34	0.59
1:D:1660:GLN:HE21	1:D:1707:LEU:HG	1.67	0.59
1:C:1555:LEU:HD12	1:C:1556:PRO:HD2	1.84	0.59
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	1.83	0.59
1:C:3731:LYS:HA	1:C:3734:HIS:CE1	2.37	0.59
1:A:639:ASN:N	1:A:678:GLN:OE1	2.33	0.59
1:A:971:ASP:O	1:A:974:HIS:ND1	2.36	0.59
1:A:1240:LYS:O	1:A:1603:VAL:HA	2.02	0.59
1:A:1648:MET:SD	1:A:1656:ARG:NH2	2.75	0.59
1:A:3675:ASP:OD1	1:A:3676:ASP:N	2.35	0.59
1:A:3997:ALA:HA	1:A:4000:MET:SD	2.43	0.59
1:A:4691:GLN:OE1	1:A:4692:PRO:HD2	2.02	0.59
2:G:52:LYS:HD2	2:G:52:LYS:N	2.17	0.59
1:B:419:ASP:OD1	1:B:493:ARG:NH1	2.35	0.59
1:B:1555:LEU:HD12	1:B:1556:PRO:HD2	1.84	0.59
1:B:2585:THR:HG22	1:B:2588:ARG:HH21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2699:ALA:HB1	1:B:3001:ILE:HD11	1.83	0.59
1:B:3731:LYS:HA	1:B:3734:HIS:CE1	2.37	0.59
1:D:1101:ARG:HG3	1:D:1125:ASN:HB2	1.84	0.59
1:D:1225:PRO:HB2	1:D:1228:ILE:HB	1.84	0.59
1:D:3180:ASN:OD1	1:D:3181:THR:N	2.35	0.59
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.17	0.59
1:D:4750:ILE:O	1:D:4756:ARG:NH1	2.35	0.59
1:C:645:ARG:HH21	1:C:826:ILE:HG23	1.67	0.59
1:A:181:HIS:ND1	1:A:198:THR:OG1	2.32	0.59
1:A:1555:LEU:HD12	1:A:1556:PRO:HD2	1.84	0.59
1:A:1660:GLN:HE21	1:A:1707:LEU:HG	1.67	0.59
1:A:2466:LEU:HD21	1:A:2505:PHE:HD1	1.68	0.59
1:A:3206:LEU:HB3	1:A:3246:LEU:HB2	1.83	0.59
1:B:971:ASP:O	1:B:974:HIS:ND1	2.36	0.59
1:B:3771:HIS:NE2	1:B:3811:GLU:OE2	2.35	0.59
1:B:4248:ALA:HA	1:B:4251:ILE:HG12	1.85	0.59
1:D:1163:THR:HG22	1:D:1168:VAL:HG22	1.84	0.59
1:D:1995:THR:O	1:D:1999:ARG:HG2	2.02	0.59
1:D:2522:LEU:HD23	1:D:2526:PHE:HD2	1.68	0.59
1:D:3467:MET:HA	1:D:3467:MET:HE3	1.84	0.59
1:C:365:LYS:HA	1:C:368:ARG:HG2	1.84	0.59
1:C:2621:HIS:HA	1:C:2624:ARG:HE	1.66	0.59
1:C:3997:ALA:HA	1:C:4000:MET:SD	2.43	0.59
1:A:425:PRO:HA	1:A:506:TYR:HA	1.84	0.59
1:A:645:ARG:HH21	1:A:826:ILE:HG23	1.67	0.59
1:A:2410:PRO:HB2	1:A:2413:GLU:HA	1.82	0.59
1:A:2585:THR:HG22	1:A:2588:ARG:HH21	1.68	0.59
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.65	0.59
1:B:3730:ALA:O	1:B:3734:HIS:ND1	2.36	0.59
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.02	0.59
1:D:1036:ARG:HA	1:D:1039:LEU:HD12	1.85	0.59
1:D:4691:GLN:OE1	1:D:4692:PRO:HD2	2.02	0.59
1:C:2231:SER:HA	1:C:2234:ARG:HG3	1.85	0.59
1:A:365:LYS:HA	1:A:368:ARG:HG2	1.84	0.59
1:A:606:LEU:HD22	1:A:621:ILE:HD11	1.84	0.59
1:A:1170:MET:HB3	1:D:3479:ALA:HB3	1.84	0.59
1:A:3183:VAL:HG22	1:A:3187:ARG:HG3	1.83	0.59
1:A:3395:ARG:O	1:A:3399:SER:N	2.34	0.59
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.03	0.59
1:A:4768:LEU:HA	1:A:4771:ILE:HD12	1.84	0.59
2:G:76:ILE:O	2:G:96:THR:OG1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:PRO:HD2	1:B:304:ALA:HB1	1.84	0.59
1:B:1990:GLU:OE1	1:B:1993:ARG:NH2	2.32	0.59
1:B:2522:LEU:HD23	1:B:2526:PHE:HD2	1.68	0.59
1:C:3183:VAL:HG22	1:C:3187:ARG:HG3	1.83	0.59
1:C:3675:ASP:OD1	1:C:3676:ASP:N	2.35	0.59
1:C:4097:MET:HA	1:C:4097:MET:HE3	1.85	0.59
1:A:341:TYR:HA	1:A:390:LEU:HD11	1.85	0.59
1:A:1087:ARG:NH2	1:A:1222:GLY:O	2.36	0.59
1:A:1163:THR:HG22	1:A:1168:VAL:HG22	1.84	0.59
1:A:2354:VAL:HG11	1:A:2453:ILE:HD12	1.84	0.59
2:F:54:GLU:HG2	2:F:55:VAL:HG23	1.84	0.59
1:B:848:HIS:O	1:B:852:VAL:HG23	2.03	0.59
1:B:1087:ARG:NH2	1:B:1222:GLY:O	2.36	0.59
1:D:446:GLN:HE21	1:D:521:LEU:HD13	1.66	0.59
1:D:1087:ARG:NH2	1:D:1222:GLY:O	2.36	0.59
1:D:2354:VAL:HG11	1:D:2453:ILE:HD12	1.84	0.59
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.38	0.59
1:D:4162:ASN:OD1	1:D:4163:PHE:N	2.36	0.59
1:C:446:GLN:HE21	1:C:521:LEU:HD13	1.66	0.59
1:C:937:CYS:HA	1:C:1054:GLU:O	2.02	0.59
1:C:2585:THR:HG22	1:C:2588:ARG:HH21	1.68	0.59
1:C:4750:ILE:O	1:C:4756:ARG:NH1	2.35	0.59
1:C:4768:LEU:HA	1:C:4771:ILE:HD12	1.84	0.59
1:A:1712:TYR:HD2	1:A:1844:LEU:HD13	1.68	0.59
1:A:3066:ASN:HA	1:A:3069:HIS:HD2	1.68	0.59
1:A:3519:PRO:HB3	1:B:1220:GLN:HG3	1.85	0.59
1:B:1648:MET:SD	1:B:1656:ARG:NH2	2.75	0.59
1:B:1660:GLN:HE21	1:B:1707:LEU:HG	1.67	0.59
1:B:3644:LEU:HD12	1:B:3645:PRO:HD2	1.85	0.59
1:D:2585:THR:HG22	1:D:2588:ARG:HH21	1.67	0.59
1:C:1036:ARG:HA	1:C:1039:LEU:HD12	1.85	0.59
1:C:1247:PRO:HA	1:C:1598:GLN:HG2	1.83	0.59
1:C:3467:MET:HA	1:C:3467:MET:HE3	1.84	0.59
1:B:425:PRO:HA	1:B:506:TYR:HA	1.84	0.58
1:B:492:ASP:O	1:B:496:VAL:HG13	2.03	0.58
1:B:1867:GLU:OE2	1:B:1928:GLN:NE2	2.29	0.58
1:B:3078:ARG:NE	1:B:3155:ASP:OD2	2.36	0.58
1:D:606:LEU:HD22	1:D:621:ILE:HD11	1.84	0.58
1:D:2466:LEU:HD21	1:D:2505:PHE:HD1	1.67	0.58
1:D:2624:ARG:HD2	1:D:2911:LEU:HA	1.85	0.58
1:D:2655:TYR:HD2	1:D:2709:ALA:HB1	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2699:ALA:HB1	1:D:3001:ILE:HD11	1.83	0.58
1:D:3066:ASN:HA	1:D:3069:HIS:HD2	1.68	0.58
1:C:606:LEU:HD22	1:C:621:ILE:HD11	1.84	0.58
1:C:971:ASP:O	1:C:974:HIS:ND1	2.36	0.58
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.38	0.58
1:A:2683:PHE:HE2	1:A:2966:TRP:HE1	1.50	0.58
1:A:3730:ALA:O	1:A:3734:HIS:ND1	2.36	0.58
1:A:4097:MET:HA	1:A:4097:MET:HE3	1.85	0.58
1:B:341:TYR:HA	1:B:390:LEU:HD11	1.85	0.58
1:B:954:LYS:NZ	1:B:966:LYS:O	2.36	0.58
1:B:1240:LYS:O	1:B:1603:VAL:HA	2.02	0.58
1:B:3223:SER:OG	1:B:3226:GLU:OE1	2.13	0.58
1:D:103:TYR:HD2	1:D:161:GLU:HB3	1.67	0.58
1:D:771:PHE:HB3	1:D:1472:VAL:HG23	1.85	0.58
1:D:1743[A]:ARG:NH2	1:D:1967:ASP:OD2	2.32	0.58
1:D:3286:GLU:OE2	1:D:3287:ARG:NH1	2.37	0.58
1:C:1240:LYS:O	1:C:1603:VAL:HA	2.02	0.58
1:A:2624:ARG:HD2	1:A:2911:LEU:HA	1.85	0.58
1:A:4162:ASN:OD1	1:A:4163:PHE:N	2.36	0.58
2:G:54:GLU:HG2	2:G:55:VAL:HG23	1.84	0.58
1:B:2466:LEU:HD21	1:B:2505:PHE:HD1	1.68	0.58
1:B:3066:ASN:HA	1:B:3069:HIS:HD2	1.68	0.58
1:D:848:HIS:O	1:D:852:VAL:HG23	2.03	0.58
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	1.85	0.58
1:C:103:TYR:HD2	1:C:161:GLU:HB3	1.67	0.58
1:C:954:LYS:NZ	1:C:966:LYS:O	2.36	0.58
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.02	0.58
1:C:5033:GLU:O	1:C:5037:SER:OG	2.21	0.58
1:A:340:LYS:HB3	1:A:344:SER:HB2	1.84	0.58
1:A:771:PHE:HB3	1:A:1472:VAL:HG23	1.85	0.58
1:B:2231:SER:HA	1:B:2234:ARG:HG3	1.85	0.58
1:B:2624:ARG:HD2	1:B:2911:LEU:HA	1.85	0.58
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.38	0.58
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.03	0.58
1:B:4097:MET:HA	1:B:4097:MET:HE3	1.85	0.58
1:D:365:LYS:HA	1:D:368:ARG:HG2	1.84	0.58
1:D:1712:TYR:HD2	1:D:1844:LEU:HD13	1.68	0.58
1:C:340:LYS:HB3	1:C:344:SER:HB2	1.84	0.58
1:C:455:PRO:HB3	1:C:467:LYS:HD3	1.86	0.58
1:C:2624:ARG:HD2	1:C:2911:LEU:HA	1.85	0.58
1:A:954:LYS:NZ	1:A:966:LYS:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1252:HIS:O	1:A:1275:ARG:NH1	2.37	0.58
1:A:2231:SER:HA	1:A:2234:ARG:HG3	1.85	0.58
1:A:3467:MET:HA	1:A:3467:MET:HE3	1.84	0.58
1:B:1036:ARG:HA	1:B:1039:LEU:HD12	1.85	0.58
1:B:2655:TYR:HD2	1:B:2709:ALA:HB1	1.67	0.58
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.86	0.58
1:B:3286:GLU:OE2	1:B:3287:ARG:NH1	2.37	0.58
1:D:341:TYR:HA	1:D:390:LEU:HD11	1.85	0.58
1:D:3730:ALA:O	1:D:3734:HIS:ND1	2.36	0.58
1:C:425:PRO:HA	1:C:506:TYR:HA	1.84	0.58
1:C:1087:ARG:NH2	1:C:1222:GLY:O	2.36	0.58
1:C:3223:SER:OG	1:C:3226:GLU:OE1	2.13	0.58
1:C:3644:LEU:HD12	1:C:3645:PRO:HD2	1.85	0.58
1:C:3730:ALA:O	1:C:3734:HIS:ND1	2.36	0.58
1:A:848:HIS:O	1:A:852:VAL:HG23	2.03	0.58
1:A:1225:PRO:HB2	1:A:1228:ILE:HB	1.84	0.58
1:B:1101:ARG:HG3	1:B:1125:ASN:HB2	1.84	0.58
1:B:2289:ALA:O	1:B:2291:GLN:NE2	2.31	0.58
1:D:455:PRO:HB3	1:D:467:LYS:HD3	1.86	0.58
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.86	0.58
1:D:3997:ALA:HA	1:D:4000:MET:SD	2.42	0.58
1:C:1101:ARG:HG3	1:C:1125:ASN:HB2	1.84	0.58
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.03	0.58
1:C:3771:HIS:NE2	1:C:3811:GLU:OE2	2.35	0.58
1:C:4162:ASN:OD1	1:C:4163:PHE:N	2.36	0.58
1:C:4211:LYS:HB3	1:C:4215:ARG:HH22	1.69	0.58
1:A:1106:ARG:NH1	1:A:1187:GLY:O	2.37	0.58
1:A:2884:ASN:O	1:A:2888:ARG:HD3	2.04	0.58
1:A:3051:ARG:NH2	1:A:3101:GLU:OE2	2.37	0.58
1:A:3078:ARG:NE	1:A:3155:ASP:OD2	2.36	0.58
1:A:3771:HIS:NE2	1:A:3811:GLU:OE2	2.35	0.58
1:B:1743[B]:ARG:NH2	1:B:1967:ASP:OD2	2.32	0.58
1:B:2974:ILE:HD13	1:B:3049:LEU:HG	1.85	0.58
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.35	0.58
1:B:4768:LEU:HA	1:B:4771:ILE:HD12	1.84	0.58
1:D:492:ASP:O	1:D:496:VAL:HG13	2.03	0.58
1:D:4680:LYS:O	1:D:4685:GLY:N	2.34	0.58
1:C:2522:LEU:HD23	1:C:2526:PHE:HD2	1.68	0.58
1:C:2884:ASN:O	1:C:2888:ARG:HD3	2.04	0.58
1:A:2249:SER:O	1:A:2253:HIS:ND1	2.37	0.58
1:A:3286:GLU:OE2	1:A:3287:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4248:ALA:HA	1:A:4251:ILE:HG12	1.85	0.58
1:B:44:ASN:ND2	1:B:46:LEU:O	2.37	0.58
1:B:606:LEU:HD22	1:B:621:ILE:HD11	1.84	0.58
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.38	0.58
1:C:719:LEU:HD23	1:C:735:GLN:HG2	1.86	0.58
1:A:455:PRO:HB3	1:A:467:LYS:HD3	1.86	0.58
1:A:3180:ASN:OD1	1:A:3181:THR:N	2.35	0.58
1:A:4661:TYR:OH	1:A:4788:SER:OG	2.15	0.58
1:B:1712:TYR:HD2	1:B:1844:LEU:HD13	1.68	0.58
1:B:3895:HIS:NE2	1:B:3970:GLN:OE1	2.34	0.58
1:B:4162:ASN:OD1	1:B:4163:PHE:N	2.36	0.58
1:D:719:LEU:HD23	1:D:735:GLN:HG2	1.86	0.58
1:D:1106:ARG:NH1	1:D:1187:GLY:O	2.37	0.58
1:D:1555:LEU:HD12	1:D:1556:PRO:HD2	1.84	0.58
1:D:2974:ILE:HD13	1:D:3049:LEU:HG	1.85	0.58
1:D:3348:ARG:O	1:D:3350:ARG:NH2	2.37	0.58
1:D:4097:MET:HA	1:D:4097:MET:HE3	1.85	0.58
1:D:4708:THR:HG22	1:D:4774:LYS:HB3	1.85	0.58
1:C:44:ASN:ND2	1:C:46:LEU:O	2.37	0.58
1:C:655:GLY:HA3	1:C:852:VAL:HG13	1.86	0.58
1:C:1160:ILE:O	1:C:1177:THR:OG1	2.22	0.58
1:C:3591:LYS:HA	1:C:3594:ARG:CD	2.34	0.58
1:A:2512:ILE:HD11	1:A:2518:LEU:HB2	1.86	0.58
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.86	0.58
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.38	0.58
1:A:3591:LYS:HA	1:A:3594:ARG:CD	2.34	0.58
1:A:3644:LEU:HD12	1:A:3645:PRO:HD2	1.85	0.58
1:A:5033:GLU:O	1:A:5037:SER:OG	2.21	0.58
1:D:655:GLY:HA3	1:D:852:VAL:HG13	1.86	0.58
1:D:2231:SER:HA	1:D:2234:ARG:HG3	1.85	0.58
1:D:4189:ARG:HB2	1:D:4189:ARG:NH1	2.19	0.58
1:C:771:PHE:HB3	1:C:1472:VAL:HG23	1.85	0.58
1:C:2466:LEU:HD21	1:C:2505:PHE:HD1	1.68	0.58
1:C:3286:GLU:OE2	1:C:3287:ARG:NH1	2.36	0.58
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	1.85	0.58
1:A:719:LEU:HD23	1:A:735:GLN:HG2	1.86	0.57
1:A:3822:ASP:OD1	1:A:3823:LYS:N	2.37	0.57
1:A:4708:THR:HG22	1:A:4774:LYS:HB3	1.85	0.57
1:A:4721:LYS:HE2	1:A:4741:LEU:HB3	1.86	0.57
1:A:4898:GLY:HA3	1:D:4892:ARG:HH12	1.67	0.57
1:B:655:GLY:HA3	1:B:852:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	1.85	0.57
1:D:3078:ARG:NE	1:D:3155:ASP:OD2	2.36	0.57
1:D:3591:LYS:HA	1:D:3594:ARG:CD	2.34	0.57
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.86	0.57
1:C:3066:ASN:HA	1:C:3069:HIS:HD2	1.68	0.57
1:C:3634:ALA:O	1:C:3638:MET:HG3	2.04	0.57
1:A:3349:ALA:HB3	1:A:3415:TYR:HE1	1.69	0.57
1:B:179:TYR:N	1:B:194:SER:O	2.36	0.57
1:B:1163:THR:HG22	1:B:1168:VAL:HG22	1.84	0.57
1:B:2512:ILE:HD11	1:B:2518:LEU:HB2	1.86	0.57
1:B:2620:GLN:HA	1:B:2623:LEU:HB2	1.86	0.57
1:B:3349:ALA:HB3	1:B:3415:TYR:HE1	1.69	0.57
1:B:3634:ALA:O	1:B:3638:MET:HG3	2.04	0.57
1:B:4211:LYS:HB3	1:B:4215:ARG:HH22	1.69	0.57
1:D:244:LEU:HB3	1:D:375:LYS:HZ3	1.70	0.57
1:D:2512:ILE:HD11	1:D:2518:LEU:HB2	1.86	0.57
1:D:3051:ARG:NH2	1:D:3101:GLU:OE2	2.37	0.57
1:D:4211:LYS:HB3	1:D:4215:ARG:HH22	1.69	0.57
1:C:3349:ALA:HB3	1:C:3415:TYR:HE1	1.70	0.57
1:C:4229:GLU:OE1	1:C:4229:GLU:N	2.36	0.57
1:A:44:ASN:ND2	1:A:46:LEU:O	2.37	0.57
1:A:492:ASP:O	1:A:496:VAL:HG13	2.03	0.57
1:A:4229:GLU:OE1	1:A:4229:GLU:N	2.36	0.57
1:B:3051:ARG:NH2	1:B:3101:GLU:OE2	2.37	0.57
1:B:3591:LYS:HA	1:B:3594:ARG:CD	2.34	0.57
1:B:4189:ARG:HB2	1:B:4189:ARG:NH1	2.19	0.57
1:D:181:HIS:ND1	1:D:198:THR:OG1	2.32	0.57
1:D:2884:ASN:O	1:D:2888:ARG:HD3	2.04	0.57
1:D:3349:ALA:HB3	1:D:3415:TYR:HE1	1.69	0.57
1:C:179:TYR:N	1:C:194:SER:O	2.36	0.57
1:C:341:TYR:HA	1:C:390:LEU:HD11	1.85	0.57
1:C:2355:ARG:HH12	1:C:2453:ILE:HD11	1.70	0.57
1:C:2512:ILE:HD11	1:C:2518:LEU:HB2	1.86	0.57
1:C:3822:ASP:OD1	1:C:3823:LYS:N	2.37	0.57
1:A:655:GLY:HA3	1:A:852:VAL:HG13	1.86	0.57
1:A:3723:MET:N	1:A:3723:MET:HE2	2.20	0.57
1:B:340:LYS:HB3	1:B:344:SER:HB2	1.84	0.57
1:B:2884:ASN:O	1:B:2888:ARG:HD3	2.04	0.57
1:B:5033:GLU:O	1:B:5037:SER:OG	2.21	0.57
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.03	0.57
1:C:492:ASP:O	1:C:496:VAL:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:848:HIS:O	1:C:852:VAL:HG23	2.03	0.57
1:C:1106:ARG:NH1	1:C:1187:GLY:O	2.37	0.57
1:C:3348:ARG:O	1:C:3350:ARG:NH2	2.37	0.57
1:A:3411:LEU:HD23	1:A:3414:ARG:HH22	1.69	0.57
1:B:455:PRO:HB3	1:B:467:LYS:HD3	1.86	0.57
1:B:2098:VAL:HG13	1:B:2101:MET:HE3	1.85	0.57
1:B:2355:ARG:HH12	1:B:2453:ILE:HD11	1.70	0.57
1:D:999:ASP:O	1:D:1003:GLN:HG3	2.04	0.57
1:D:1160:ILE:O	1:D:1177:THR:OG1	2.22	0.57
1:D:1685:LEU:HD21	1:D:1714:LEU:HD11	1.87	0.57
1:D:2098:VAL:HG13	1:D:2101:MET:HE3	1.85	0.57
1:C:2974:ILE:HD13	1:C:3049:LEU:HG	1.85	0.57
1:C:3930:ILE:HG23	1:C:3951:PHE:HE1	1.70	0.57
1:A:999:ASP:O	1:A:1003:GLN:HG3	2.04	0.57
1:A:1036:ARG:HA	1:A:1039:LEU:HD12	1.85	0.57
1:B:3376:GLU:HB3	1:B:3380:ARG:HH12	1.70	0.57
1:B:3467:MET:HA	1:B:3467:MET:HE3	1.84	0.57
1:B:3822:ASP:OD1	1:B:3823:LYS:N	2.37	0.57
1:D:44:ASN:ND2	1:D:46:LEU:O	2.37	0.57
1:D:3322:ILE:O	1:D:3326:ASN:ND2	2.38	0.57
1:D:4721:LYS:HE2	1:D:4741:LEU:HB3	1.86	0.57
1:C:1685:LEU:HD21	1:C:1714:LEU:HD11	1.87	0.57
1:C:2506:LEU:O	1:C:2511:GLY:N	2.35	0.57
1:C:2620:GLN:HA	1:C:2623:LEU:HB2	1.86	0.57
1:A:224:HIS:O	1:B:155:LYS:NZ	2.38	0.57
1:A:3376:GLU:HB3	1:A:3380:ARG:HH12	1.70	0.57
1:A:3539:ARG:HH12	1:A:3552:PHE:HB3	1.70	0.57
1:A:3634:ALA:O	1:A:3638:MET:HG3	2.04	0.57
1:B:683:ARG:O	1:B:781:VAL:HA	2.05	0.57
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.22	0.57
1:B:4721:LYS:HE2	1:B:4741:LEU:HB3	1.86	0.57
1:D:2355:ARG:HH12	1:D:2453:ILE:HD11	1.70	0.57
1:D:3395:ARG:HD2	1:D:3450:ASN:HD21	1.70	0.57
1:D:3930:ILE:HG23	1:D:3951:PHE:HE1	1.70	0.57
1:C:3411:LEU:HD23	1:C:3414:ARG:HH22	1.69	0.57
1:D:747:CYS:SG	1:D:805:PRO:HG3	2.45	0.57
1:D:3771:HIS:NE2	1:D:3811:GLU:OE2	2.35	0.57
1:C:1252:HIS:O	1:C:1275:ARG:NH1	2.37	0.57
1:C:3723:MET:HE2	1:C:3723:MET:N	2.20	0.57
1:A:683:ARG:HB3	1:A:707:VAL:HG12	1.87	0.57
1:A:1160:ILE:O	1:A:1177:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1106:ARG:NH1	1:B:1187:GLY:O	2.37	0.57
1:B:3236:VAL:HA	1:B:3239:MET:HG2	1.87	0.57
1:D:73:LEU:O	1:D:106:ALA:N	2.33	0.57
1:D:1251:GLU:N	1:D:1251:GLU:OE1	2.38	0.57
1:D:2249:SER:O	1:D:2253:HIS:ND1	2.37	0.57
1:D:3824:LYS:HZ1	1:D:3908:GLY:HA3	1.69	0.57
1:D:3944:GLU:OE2	1:D:3947:GLY:N	2.38	0.57
1:C:683:ARG:O	1:C:781:VAL:HA	2.05	0.57
1:C:1944:GLU:OE2	1:C:2126:ARG:NH1	2.38	0.57
1:A:818:ARG:NH2	1:A:1027:LEU:O	2.22	0.57
1:A:2098:VAL:HG13	1:A:2101:MET:HE3	1.85	0.57
1:A:2772:GLN:O	1:B:1506:GLN:NE2	2.38	0.57
1:A:2974:ILE:HD13	1:A:3049:LEU:HG	1.85	0.57
1:A:3348:ARG:O	1:A:3350:ARG:NH2	2.37	0.57
1:A:4189:ARG:HB2	1:A:4189:ARG:NH1	2.19	0.57
1:B:1944:GLU:OE2	1:B:2126:ARG:NH1	2.38	0.57
1:B:4184:MET:HE3	1:B:4188:ARG:HA	1.87	0.57
1:D:1252:HIS:O	1:D:1275:ARG:NH1	2.37	0.57
1:D:1961:PHE:HA	1:D:1964:ARG:HD2	1.87	0.57
1:D:3398:PHE:O	1:D:3402:CYS:N	2.34	0.57
1:D:3822:ASP:OD1	1:D:3823:LYS:N	2.37	0.57
1:C:663:TYR:CE1	1:C:745:SER:HB2	2.36	0.57
1:C:999:ASP:O	1:C:1003:GLN:HG3	2.05	0.57
1:C:1743[B]:ARG:NH2	1:C:1967:ASP:OD2	2.32	0.57
1:C:3051:ARG:NH2	1:C:3101:GLU:OE2	2.37	0.57
1:A:2620:GLN:HA	1:A:2623:LEU:HB2	1.86	0.56
1:A:4901:ILE:HG23	1:A:4913:ARG:NH2	2.20	0.56
1:B:3395:ARG:O	1:B:3399:SER:N	2.34	0.56
1:B:3455:GLU:HA	1:B:3458:PHE:CE1	2.40	0.56
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.87	0.56
1:D:683:ARG:O	1:D:781:VAL:HA	2.05	0.56
1:D:954:LYS:NZ	1:D:966:LYS:O	2.36	0.56
1:D:3376:GLU:HB3	1:D:3380:ARG:HH12	1.70	0.56
1:D:3644:LEU:HD12	1:D:3645:PRO:HD2	1.85	0.56
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.87	0.56
1:C:2788:HIS:HE1	1:C:2790:MET:HE2	1.70	0.56
1:C:3550:ARG:HH12	1:C:3593:VAL:C	2.13	0.56
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.87	0.56
1:B:719:LEU:HD23	1:B:735:GLN:HG2	1.86	0.56
1:B:1160:ILE:O	1:B:1177:THR:OG1	2.22	0.56
1:B:3348:ARG:O	1:B:3350:ARG:NH2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3411:LEU:HD23	1:B:3414:ARG:HH22	1.69	0.56
1:B:3723:MET:HE2	1:B:3723:MET:N	2.20	0.56
1:B:3819:TYR:CZ	1:B:3823:LYS:HG3	2.41	0.56
1:B:4708:THR:HG22	1:B:4774:LYS:HB3	1.85	0.56
1:B:4901:ILE:HG23	1:B:4913:ARG:NH2	2.20	0.56
1:D:3411:LEU:HD23	1:D:3414:ARG:HH22	1.69	0.56
1:D:4846:VAL:HG21	1:C:4816:ILE:HD11	1.87	0.56
1:D:4901:ILE:HG23	1:D:4913:ARG:NH2	2.20	0.56
1:C:2098:VAL:HG13	1:C:2101:MET:HE3	1.86	0.56
1:C:2189:LYS:HZ1	1:C:2193:GLN:HB2	1.70	0.56
1:C:3819:TYR:CZ	1:C:3823:LYS:HG3	2.41	0.56
1:C:4152:GLU:OE1	1:C:4192:ARG:NH1	2.31	0.56
1:A:73:LEU:O	1:A:106:ALA:N	2.33	0.56
1:A:683:ARG:O	1:A:781:VAL:HA	2.05	0.56
1:A:747:CYS:SG	1:A:805:PRO:HG3	2.45	0.56
1:A:897:ARG:HB3	1:A:905:PRO:HD2	1.88	0.56
1:A:1251:GLU:N	1:A:1251:GLU:OE1	2.38	0.56
1:A:1685:LEU:HD21	1:A:1714:LEU:HD11	1.87	0.56
1:A:1961:PHE:HA	1:A:1964:ARG:HD2	1.87	0.56
1:A:2355:ARG:HH12	1:A:2453:ILE:HD11	1.70	0.56
1:A:3084:GLY:HA3	1:A:3089:LYS:HZ3	1.70	0.56
1:A:3455:GLU:HA	1:A:3458:PHE:CE1	2.41	0.56
1:A:3550:ARG:HH12	1:A:3593:VAL:C	2.13	0.56
1:A:3819:TYR:CZ	1:A:3823:LYS:HG3	2.41	0.56
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.05	0.56
1:B:1087:ARG:HG3	1:B:1224:GLU:H	1.70	0.56
1:B:1251:GLU:OE1	1:B:1251:GLU:N	2.38	0.56
1:B:3550:ARG:HH12	1:B:3593:VAL:C	2.13	0.56
1:B:4820:VAL:HG11	1:C:4839:MET:SD	2.46	0.56
1:D:2695:LEU:HA	1:D:2698:MET:HE3	1.88	0.56
1:D:4183:ILE:HD13	1:D:4193:ILE:HD11	1.88	0.56
1:C:1251:GLU:OE1	1:C:1251:GLU:N	2.38	0.56
1:C:1961:PHE:HA	1:C:1964:ARG:HD2	1.87	0.56
1:C:2695:LEU:HA	1:C:2698:MET:HE3	1.88	0.56
1:C:3100:SER:O	1:C:3103:ILE:HG22	2.05	0.56
1:C:3322:ILE:O	1:C:3326:ASN:ND2	2.38	0.56
1:C:3376:GLU:HB3	1:C:3380:ARG:HH12	1.70	0.56
1:C:3395:ARG:HD2	1:C:3450:ASN:HD21	1.70	0.56
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.87	0.56
1:C:4183:ILE:HD13	1:C:4193:ILE:HD11	1.88	0.56
1:A:663:TYR:CE1	1:A:745:SER:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3100:SER:O	1:A:3103:ILE:HG22	2.05	0.56
1:A:3322:ILE:O	1:A:3326:ASN:ND2	2.38	0.56
1:A:3398:PHE:O	1:A:3402:CYS:N	2.34	0.56
1:B:897:ARG:HB3	1:B:905:PRO:HD2	1.88	0.56
1:B:2243:SER:HB3	1:B:2246:ASN:ND2	2.21	0.56
1:B:2249:SER:O	1:B:2253:HIS:ND1	2.37	0.56
1:B:3322:ILE:O	1:B:3326:ASN:ND2	2.38	0.56
1:D:897:ARG:HB3	1:D:905:PRO:HD2	1.88	0.56
1:D:2243:SER:HB3	1:D:2246:ASN:ND2	2.21	0.56
1:D:3634:ALA:O	1:D:3638:MET:HG3	2.04	0.56
1:D:3695:PRO:HB3	1:D:3699:HIS:CD2	2.41	0.56
1:C:747:CYS:SG	1:C:805:PRO:HG3	2.45	0.56
1:C:2243:SER:HB3	1:C:2246:ASN:ND2	2.21	0.56
1:C:2310:CYS:SG	1:C:2313:LEU:HB2	2.46	0.56
1:C:3531:ASP:OD2	1:C:3532:LEU:N	2.38	0.56
1:C:4901:ILE:HG23	1:C:4913:ARG:NH2	2.20	0.56
1:A:2243:SER:HB3	1:A:2246:ASN:ND2	2.21	0.56
1:A:4211:LYS:HB3	1:A:4215:ARG:HH22	1.69	0.56
1:B:111:HIS:HB3	1:B:114:SER:OG	2.06	0.56
1:B:1685:LEU:HD21	1:B:1714:LEU:HD11	1.87	0.56
1:B:2506:LEU:O	1:B:2511:GLY:N	2.35	0.56
1:B:2522:LEU:HB3	1:B:2582:MET:HE1	1.87	0.56
1:B:3020:THR:OG1	1:B:3023:LYS:O	2.23	0.56
1:B:3100:SER:O	1:B:3103:ILE:HG22	2.05	0.56
1:B:3695:PRO:HB3	1:B:3699:HIS:CD2	2.41	0.56
1:B:3930:ILE:HG23	1:B:3951:PHE:HE1	1.70	0.56
1:B:3944:GLU:OE2	1:B:3947:GLY:N	2.38	0.56
1:B:4183:ILE:HD13	1:B:4193:ILE:HD11	1.88	0.56
1:D:652:ARG:HB2	1:D:750:LEU:HD13	1.88	0.56
1:D:663:TYR:CE1	1:D:745:SER:HB2	2.36	0.56
1:D:2310:CYS:SG	1:D:2313:LEU:HB2	2.46	0.56
1:C:897:ARG:HB3	1:C:905:PRO:HD2	1.88	0.56
1:C:2195:PRO:O	1:C:2199:ARG:HG3	2.06	0.56
1:C:4708:THR:HG22	1:C:4774:LYS:HB3	1.85	0.56
1:C:4721:LYS:HE2	1:C:4741:LEU:HB3	1.86	0.56
1:A:2695:LEU:HA	1:A:2698:MET:HE3	1.87	0.56
1:A:3395:ARG:HD2	1:A:3450:ASN:HD21	1.70	0.56
2:E:17:LYS:HE3	2:E:20:GLN:HB2	1.88	0.56
1:B:1252:HIS:O	1:B:1275:ARG:NH1	2.37	0.56
1:B:1961:PHE:HA	1:B:1964:ARG:HD2	1.87	0.56
1:B:3539:ARG:HH12	1:B:3552:PHE:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4802:GLY:HA2	1:B:4808:PHE:HB2	1.88	0.56
1:D:892:THR:O	1:D:904:HIS:N	2.39	0.56
1:D:2788:HIS:HE1	1:D:2790:MET:HE2	1.70	0.56
1:D:3455:GLU:HA	1:D:3458:PHE:CE1	2.40	0.56
1:D:3550:ARG:HH12	1:D:3593:VAL:C	2.13	0.56
1:C:1712:TYR:HD2	1:C:1844:LEU:HD13	1.68	0.56
1:C:3236:VAL:HA	1:C:3239:MET:HG2	1.87	0.56
1:C:3455:GLU:HA	1:C:3458:PHE:CE1	2.41	0.56
1:A:111:HIS:HB3	1:A:114:SER:OG	2.06	0.56
1:A:1944:GLU:OE2	1:A:2126:ARG:NH1	2.38	0.56
1:A:2522:LEU:HB3	1:A:2582:MET:HE1	1.87	0.56
1:D:1101:ARG:HB2	1:D:1193:SER:HB3	1.88	0.56
1:D:1944:GLU:OE2	1:D:2126:ARG:NH1	2.38	0.56
1:D:3286:GLU:HG2	1:D:3287:ARG:HD3	1.88	0.56
1:D:3531:ASP:OD2	1:D:3532:LEU:N	2.38	0.56
1:D:3819:TYR:CZ	1:D:3823:LYS:HG3	2.41	0.56
1:A:892:THR:O	1:A:904:HIS:N	2.39	0.56
1:A:4183:ILE:HD13	1:A:4193:ILE:HD11	1.88	0.56
1:B:747:CYS:SG	1:B:805:PRO:HG3	2.45	0.56
1:B:1998:PHE:O	1:B:3638:MET:HE1	2.06	0.56
1:B:2695:LEU:HA	1:B:2698:MET:HE3	1.87	0.56
1:B:2788:HIS:HE1	1:B:2790:MET:HE2	1.70	0.56
1:B:3398:PHE:O	1:B:3402:CYS:N	2.34	0.56
1:D:4977:THR:OG1	1:D:5029:ARG:NH2	2.38	0.56
1:C:1101:ARG:HB2	1:C:1193:SER:HB3	1.88	0.56
1:C:4189:ARG:HB2	1:C:4189:ARG:NH1	2.19	0.56
1:A:1087:ARG:HG3	1:A:1224:GLU:H	1.70	0.56
1:A:4977:THR:OG1	1:A:5029:ARG:NH2	2.38	0.56
1:B:683:ARG:HB3	1:B:707:VAL:HG12	1.87	0.56
1:B:884:LEU:HD11	1:B:969:PRO:HB3	1.88	0.56
1:B:2195:PRO:O	1:B:2199:ARG:HG3	2.06	0.56
1:B:3395:ARG:HD2	1:B:3450:ASN:HD21	1.70	0.56
1:B:3458:PHE:HA	1:B:3461:GLN:HG2	1.88	0.56
1:D:243:ARG:HH22	1:D:289:ARG:HD2	1.71	0.56
1:D:973:SER:O	1:D:976:ARG:NH2	2.39	0.56
1:D:1438:ARG:HB3	1:D:1563:GLN:HB2	1.88	0.56
1:D:3723:MET:N	1:D:3723:MET:HE2	2.20	0.56
1:C:1087:ARG:HG3	1:C:1224:GLU:H	1.70	0.56
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.22	0.56
1:A:652:ARG:HB2	1:A:750:LEU:HD13	1.88	0.56
1:A:2788:HIS:HE1	1:A:2790:MET:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3930:ILE:HG23	1:A:3951:PHE:HE1	1.70	0.56
1:A:4802:GLY:HA2	1:A:4808:PHE:HB2	1.88	0.56
1:B:3036:LYS:HG2	1:B:3076:ASP:HB3	1.88	0.56
1:B:3286:GLU:HG2	1:B:3287:ARG:HD3	1.88	0.56
1:B:3362:ILE:HG22	1:B:3437:MET:HE2	1.88	0.56
1:B:4892:ARG:HH12	1:C:4898:GLY:HA3	1.71	0.56
1:C:1998:PHE:O	1:C:3638:MET:HE1	2.06	0.56
1:C:2249:SER:O	1:C:2253:HIS:ND1	2.37	0.56
1:C:3286:GLU:HG2	1:C:3287:ARG:HD3	1.88	0.56
1:C:3362:ILE:HG22	1:C:3437:MET:HE2	1.88	0.56
1:C:3395:ARG:NH1	1:C:3453:ARG:HH22	2.04	0.56
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.34	0.56
1:A:226:HIS:HE1	1:B:155:LYS:HB2	1.70	0.55
1:A:3036:LYS:HG2	1:A:3076:ASP:HB3	1.88	0.55
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.17	0.55
1:A:3695:PRO:HB3	1:A:3699:HIS:CD2	2.41	0.55
1:A:3944:GLU:OE2	1:A:3947:GLY:N	2.38	0.55
2:F:17:LYS:HE3	2:F:20:GLN:HB2	1.88	0.55
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.89	0.55
1:D:683:ARG:HB3	1:D:707:VAL:HG12	1.87	0.55
1:D:2620:GLN:HA	1:D:2623:LEU:HB2	1.86	0.55
1:D:3100:SER:O	1:D:3103:ILE:HG22	2.05	0.55
1:D:3458:PHE:HA	1:D:3461:GLN:HG2	1.88	0.55
1:D:4184:MET:HE3	1:D:4188:ARG:HA	1.87	0.55
1:C:243:ARG:HH22	1:C:289:ARG:HD2	1.71	0.55
1:C:683:ARG:HB3	1:C:707:VAL:HG12	1.87	0.55
1:C:884:LEU:HD11	1:C:969:PRO:HB3	1.88	0.55
1:C:973:SER:O	1:C:976:ARG:NH2	2.39	0.55
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.39	0.55
1:A:1438:ARG:HB3	1:A:1563:GLN:HB2	1.88	0.55
1:D:460:GLN:N	1:D:463:GLU:OE2	2.39	0.55
1:D:884:LEU:HD11	1:D:969:PRO:HB3	1.88	0.55
1:D:3395:ARG:NH1	1:D:3453:ARG:HH22	2.04	0.55
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.39	0.55
1:C:3354:LEU:HB2	1:C:3415:TYR:CE2	2.38	0.55
1:C:4977:THR:OG1	1:C:5029:ARG:NH2	2.39	0.55
1:A:973:SER:O	1:A:976:ARG:NH2	2.39	0.55
1:A:2310:CYS:SG	1:A:2313:LEU:HB2	2.46	0.55
1:A:3236:VAL:HA	1:A:3239:MET:HG2	1.87	0.55
1:A:3354:LEU:HB2	1:A:3415:TYR:CE2	2.38	0.55
1:B:3531:ASP:OD2	1:B:3532:LEU:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:LEU:HB3	1:D:339:ILE:HD13	1.89	0.55
1:D:1263:THR:OG1	1:D:1265:ASP:OD1	2.22	0.55
1:D:3236:VAL:HA	1:D:3239:MET:HG2	1.87	0.55
1:D:3498:ARG:HG2	1:D:3501:ASP:H	1.72	0.55
1:D:4802:GLY:HA2	1:D:4808:PHE:HB2	1.88	0.55
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.88	0.55
1:C:3601:ALA:HA	1:C:3604:TYR:CD1	2.42	0.55
1:A:274:LEU:HB3	1:A:339:ILE:HD13	1.89	0.55
1:A:884:LEU:HD11	1:A:969:PRO:HB3	1.88	0.55
1:A:1291:LEU:HD12	1:A:1550:PRO:HG2	1.89	0.55
1:A:2195:PRO:O	1:A:2199:ARG:HG3	2.06	0.55
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.89	0.55
1:A:3531:ASP:OD2	1:A:3532:LEU:N	2.38	0.55
1:A:3550:ARG:O	1:A:3554:GLN:HG2	2.07	0.55
1:A:4184:MET:HE3	1:A:4188:ARG:HA	1.87	0.55
1:B:281:ARG:NH1	1:B:309:THR:OG1	2.39	0.55
1:B:990:GLU:OE2	1:B:994:ASN:ND2	2.40	0.55
1:B:2310:CYS:SG	1:B:2313:LEU:HB2	2.46	0.55
1:B:2764:GLU:HB3	1:B:2857:PRO:HG3	1.89	0.55
1:D:281:ARG:NH1	1:D:309:THR:OG1	2.39	0.55
1:D:3362:ILE:HG22	1:D:3437:MET:HE2	1.88	0.55
1:D:3539:ARG:HH12	1:D:3552:PHE:HB3	1.70	0.55
1:C:3036:LYS:HG2	1:C:3076:ASP:HB3	1.88	0.55
1:A:2909:ASP:HA	1:A:2916:LYS:HE3	1.89	0.55
1:A:3984:ARG:NH2	1:B:161:GLU:HA	2.21	0.55
1:B:460:GLN:N	1:B:463:GLU:OE2	2.39	0.55
1:B:652:ARG:HB2	1:B:750:LEU:HD13	1.88	0.55
1:D:1237:TRP:HE3	1:D:1605:TRP:HB3	1.72	0.55
1:C:466:SER:HA	1:C:469:ARG:NH1	2.22	0.55
1:C:730:VAL:O	1:C:735:GLN:NE2	2.39	0.55
1:C:3695:PRO:HB3	1:C:3699:HIS:CD2	2.41	0.55
1:C:4184:MET:HE3	1:C:4188:ARG:HA	1.87	0.55
1:A:1998:PHE:O	1:A:3638:MET:HE1	2.06	0.55
1:A:3395:ARG:NH1	1:A:3453:ARG:HH22	2.04	0.55
1:A:3498:ARG:HG2	1:A:3501:ASP:H	1.72	0.55
2:H:17:LYS:HE3	2:H:20:GLN:HB2	1.88	0.55
1:B:341:TYR:CE2	1:B:392:ARG:HG2	2.42	0.55
1:B:414:PHE:HA	1:B:436:LEU:HD22	1.89	0.55
1:B:730:VAL:O	1:B:735:GLN:NE2	2.39	0.55
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.89	0.55
1:B:1438:ARG:HB3	1:B:1563:GLN:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2909:ASP:HA	1:B:2916:LYS:HE3	1.89	0.55
1:B:3395:ARG:NH1	1:B:3453:ARG:HH22	2.04	0.55
1:D:730:VAL:O	1:D:735:GLN:NE2	2.39	0.55
1:D:2522:LEU:HB3	1:D:2582:MET:HE1	1.87	0.55
1:D:4016:LEU:O	1:D:4020:GLN:HG3	2.07	0.55
1:C:111:HIS:HB3	1:C:114:SER:OG	2.06	0.55
1:C:1443:GLN:NE2	1:C:1558:HIS:HB3	2.22	0.55
1:C:3718:GLU:OE1	1:C:3793:MET:HE3	2.07	0.55
1:A:175:SER:HA	1:D:2452:ARG:HD3	1.89	0.55
1:A:466:SER:HA	1:A:469:ARG:NH1	2.22	0.55
1:A:730:VAL:O	1:A:735:GLN:NE2	2.39	0.55
1:A:1101:ARG:HB2	1:A:1193:SER:HB3	1.88	0.55
1:A:3860:ASN:HB3	1:A:3865:VAL:HB	1.88	0.55
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.42	0.55
1:A:4016:LEU:O	1:A:4020:GLN:HG3	2.07	0.55
1:B:1133:HIS:O	1:B:1134:LEU:C	2.50	0.55
1:B:3718:GLU:OE1	1:B:3793:MET:HE3	2.07	0.55
1:B:3860:ASN:HB3	1:B:3865:VAL:HB	1.88	0.55
1:D:111:HIS:HB3	1:D:114:SER:OG	2.06	0.55
1:D:414:PHE:HA	1:D:436:LEU:HD22	1.89	0.55
1:D:3597:GLN:NE2	1:D:3598:GLU:HG3	2.22	0.55
1:C:2522:LEU:HB3	1:C:2582:MET:HE1	1.87	0.55
1:C:3078:ARG:NE	1:C:3155:ASP:OD2	2.36	0.55
1:C:3458:PHE:HA	1:C:3461:GLN:HG2	1.88	0.55
1:C:3498:ARG:HG2	1:C:3501:ASP:H	1.72	0.55
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.89	0.55
1:A:3286:GLU:HG2	1:A:3287:ARG:HD3	1.88	0.55
1:A:4567:LEU:HD21	1:A:4816:ILE:HG22	1.89	0.55
2:G:17:LYS:HE3	2:G:20:GLN:HB2	1.88	0.55
1:B:1211:LEU:HB3	1:B:1214:PHE:HB3	1.88	0.55
1:B:4567:LEU:HD21	1:B:4816:ILE:HG22	1.89	0.55
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.88	0.55
1:D:1291:LEU:HB3	1:D:1595:LEU:HD11	1.89	0.55
1:D:2951:ILE:HA	1:D:2954:ARG:HD3	1.89	0.55
1:C:341:TYR:CE2	1:C:392:ARG:HG2	2.42	0.55
1:C:1133:HIS:O	1:C:1134:LEU:C	2.50	0.55
1:C:1211:LEU:HB3	1:C:1214:PHE:HB3	1.88	0.55
1:C:2764:GLU:HB3	1:C:2857:PRO:HG3	1.89	0.55
1:C:2909:ASP:HA	1:C:2916:LYS:HE3	1.89	0.55
1:C:3597:GLN:NE2	1:C:3598:GLU:HG3	2.22	0.55
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:PHE:HA	1:A:436:LEU:HD22	1.89	0.55
1:A:894:GLY:HA3	1:A:903:LEU:HD23	1.89	0.55
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.89	0.55
1:A:3601:ALA:HA	1:A:3604:TYR:CD1	2.42	0.55
1:A:3965:LEU:HA	1:A:3968:TYR:HD2	1.72	0.55
1:B:243:ARG:HH22	1:B:289:ARG:HD2	1.71	0.55
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.89	0.55
1:B:4016:LEU:O	1:B:4020:GLN:HG3	2.07	0.55
1:D:990:GLU:OE2	1:D:994:ASN:ND2	2.40	0.55
1:D:1087:ARG:HG3	1:D:1224:GLU:H	1.70	0.55
1:D:1998:PHE:O	1:D:3638:MET:HE1	2.06	0.55
1:D:2195:PRO:O	1:D:2199:ARG:HG3	2.06	0.55
1:D:3718:GLU:OE1	1:D:3793:MET:HE3	2.07	0.55
1:C:589:LEU:HA	1:C:592:LYS:HZ2	1.71	0.55
1:C:1291:LEU:HD12	1:C:1550:PRO:HG2	1.89	0.55
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.89	0.55
1:C:3550:ARG:O	1:C:3554:GLN:HG2	2.07	0.55
1:A:243:ARG:HH22	1:A:289:ARG:HD2	1.71	0.55
1:A:1741:GLU:O	1:A:1745:ILE:HG13	2.07	0.55
1:A:2506:LEU:O	1:A:2511:GLY:N	2.35	0.55
1:A:2611:CYS:HA	1:A:2614:ILE:HD12	1.89	0.55
1:A:2764:GLU:HB3	1:A:2857:PRO:HG3	1.89	0.55
1:A:3458:PHE:HA	1:A:3461:GLN:HG2	1.88	0.55
1:B:274:LEU:HB3	1:B:339:ILE:HD13	1.89	0.55
1:B:3524:MET:HE2	1:B:3595:ARG:HD3	1.89	0.55
1:B:3891:LEU:HB3	1:B:3899:PHE:CE2	2.42	0.55
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.07	0.55
1:C:652:ARG:HB2	1:C:750:LEU:HD13	1.88	0.55
1:C:4802:GLY:HA2	1:C:4808:PHE:HB2	1.88	0.55
1:A:990:GLU:OE2	1:A:994:ASN:ND2	2.40	0.54
1:A:1211:LEU:HB3	1:A:1214:PHE:HB3	1.88	0.54
1:A:1237:TRP:HE3	1:A:1605:TRP:HB3	1.72	0.54
1:A:3110:LEU:HD21	1:A:3183:VAL:HB	1.89	0.54
1:A:3207:GLU:O	1:A:3211:ASN:HB2	2.08	0.54
1:A:3362:ILE:HG22	1:A:3437:MET:HE2	1.88	0.54
1:A:4967:TYR:OH	1:A:5033:GLU:OE2	2.21	0.54
1:B:894:GLY:HA3	1:B:903:LEU:HD23	1.89	0.54
1:B:1101:ARG:HB2	1:B:1193:SER:HB3	1.88	0.54
1:B:1237:TRP:HE3	1:B:1605:TRP:HB3	1.72	0.54
1:B:3110:LEU:HD21	1:B:3183:VAL:HB	1.89	0.54
1:B:3965:LEU:HA	1:B:3968:TYR:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:TYR:N	1:D:194:SER:O	2.36	0.54
1:D:1439:VAL:HG21	1:D:1448:VAL:HG11	1.90	0.54
1:D:2506:LEU:O	1:D:2511:GLY:N	2.35	0.54
1:D:2764:GLU:HB3	1:D:2857:PRO:HG3	1.89	0.54
1:D:3036:LYS:HG2	1:D:3076:ASP:HB3	1.88	0.54
1:D:3965:LEU:HA	1:D:3968:TYR:HD2	1.72	0.54
1:C:274:LEU:HB3	1:C:339:ILE:HD13	1.89	0.54
1:C:1008:SER:HB2	1:C:1017:ARG:HB3	1.89	0.54
1:C:3539:ARG:HH12	1:C:3552:PHE:HB3	1.70	0.54
1:A:341:TYR:CE2	1:A:392:ARG:HG2	2.42	0.54
1:A:1443:GLN:NE2	1:A:1558:HIS:HB3	2.22	0.54
1:B:3207:GLU:O	1:B:3211:ASN:HB2	2.07	0.54
1:D:1443:GLN:NE2	1:D:1558:HIS:HB3	2.22	0.54
1:D:3207:GLU:O	1:D:3211:ASN:HB2	2.07	0.54
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.89	0.54
1:C:1438:ARG:HB3	1:C:1563:GLN:HB2	1.88	0.54
1:C:3207:GLU:O	1:C:3211:ASN:HB2	2.08	0.54
1:C:3540:TYR:OH	1:C:3597:GLN:OE1	2.25	0.54
1:C:4567:LEU:HD21	1:C:4816:ILE:HG22	1.89	0.54
1:B:818:ARG:NH2	1:B:1027:LEU:O	2.22	0.54
1:B:1443:GLN:NE2	1:B:1558:HIS:HB3	2.22	0.54
1:B:2951:ILE:HA	1:B:2954:ARG:HD3	1.89	0.54
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.07	0.54
1:B:4184:MET:HB3	1:B:5021:PHE:HA	1.90	0.54
1:D:466:SER:HA	1:D:469:ARG:NH1	2.22	0.54
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.89	0.54
1:D:3860:ASN:HB3	1:D:3865:VAL:HB	1.89	0.54
1:C:1713:ASP:HA	1:C:1716:ILE:HD12	1.89	0.54
1:C:3860:ASN:HB3	1:C:3865:VAL:HB	1.89	0.54
1:A:232:THR:HG21	1:A:257:ARG:HE	1.73	0.54
1:A:293:LEU:HD13	1:A:378:LEU:HD23	1.90	0.54
1:A:1291:LEU:HB3	1:A:1595:LEU:HD11	1.89	0.54
1:A:3368:ARG:HG2	1:A:3371:LYS:HZ2	1.73	0.54
1:A:3540:TYR:OH	1:A:3597:GLN:OE1	2.25	0.54
1:B:892:THR:O	1:B:904:HIS:N	2.39	0.54
1:B:973:SER:O	1:B:976:ARG:NH2	2.39	0.54
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:NH1	2.23	0.54
1:B:3552:PHE:HA	1:B:3555:ASN:ND2	2.23	0.54
1:D:1133:HIS:O	1:D:1134:LEU:C	2.50	0.54
1:D:3601:ALA:HA	1:D:3604:TYR:CD1	2.42	0.54
1:C:131:LEU:O	1:C:178:ARG:NE	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1439:VAL:HG21	1:C:1448:VAL:HG11	1.90	0.54
1:C:2178:MET:O	1:C:2182:ILE:HG12	2.08	0.54
1:C:2821:TRP:HZ3	1:C:2878:LEU:HD13	1.73	0.54
1:A:1008:SER:HB2	1:A:1017:ARG:HB3	1.89	0.54
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:NH1	2.23	0.54
1:A:3552:PHE:HA	1:A:3555:ASN:ND2	2.23	0.54
1:A:4184:MET:HB3	1:A:5021:PHE:HA	1.90	0.54
1:B:144:GLU:HB3	1:B:175:SER:HB3	1.90	0.54
1:D:341:TYR:CE2	1:D:392:ARG:HG2	2.42	0.54
1:D:1211:LEU:HB3	1:D:1214:PHE:HB3	1.88	0.54
1:D:2909:ASP:HA	1:D:2916:LYS:HE3	1.89	0.54
1:D:4567:LEU:HD21	1:D:4816:ILE:HG22	1.89	0.54
1:C:990:GLU:OE2	1:C:994:ASN:ND2	2.40	0.54
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.08	0.54
1:C:4016:LEU:O	1:C:4020:GLN:HG3	2.07	0.54
1:A:1439:VAL:HG21	1:A:1448:VAL:HG11	1.90	0.54
1:A:4219:PHE:HD1	1:A:4950:VAL:HG11	1.73	0.54
1:B:466:SER:HA	1:B:469:ARG:NH1	2.22	0.54
1:B:3498:ARG:HG2	1:B:3501:ASP:H	1.72	0.54
1:B:3597:GLN:NE2	1:B:3598:GLU:HG3	2.22	0.54
1:D:144:GLU:HB3	1:D:175:SER:HB3	1.90	0.54
1:D:1089:TYR:CZ	1:D:1214:PHE:HB2	2.43	0.54
1:D:1721:GLU:HG2	1:D:1722:SER:N	2.23	0.54
1:D:2534:ALA:HA	1:D:2588:ARG:NH1	2.21	0.54
1:D:2612[A]:ARG:HH11	1:D:2612[A]:ARG:CB	2.20	0.54
1:D:3354:LEU:HB2	1:D:3415:TYR:CE2	2.38	0.54
1:D:3891:LEU:HB3	1:D:3899:PHE:CE2	2.42	0.54
1:D:4540:PHE:O	1:D:4543:GLU:HG3	2.08	0.54
1:C:941:MET:N	1:C:941:MET:HE2	2.23	0.54
1:C:1089:TYR:CZ	1:C:1214:PHE:HB2	2.43	0.54
1:C:1721:GLU:HG2	1:C:1722:SER:N	2.23	0.54
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.07	0.54
1:C:3944:GLU:OE2	1:C:3947:GLY:N	2.38	0.54
1:A:144:GLU:HB3	1:A:175:SER:HB3	1.90	0.54
1:A:2951:ILE:HA	1:A:2954:ARG:HD3	1.89	0.54
1:A:3020:THR:OG1	1:A:3023:LYS:O	2.23	0.54
1:B:1092:PHE:HZ	1:B:1100:MET:SD	2.31	0.54
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.07	0.54
1:B:2581:SER:O	1:B:2585:THR:HG23	2.08	0.54
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.89	0.54
1:D:3455:GLU:HA	1:D:3458:PHE:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3550:ARG:O	1:D:3554:GLN:HG2	2.07	0.54
1:C:293:LEU:HD13	1:C:378:LEU:HD23	1.89	0.54
1:C:414:PHE:HA	1:C:436:LEU:HD22	1.89	0.54
1:C:1237:TRP:HE3	1:C:1605:TRP:HB3	1.72	0.54
1:A:1089:TYR:CZ	1:A:1214:PHE:HB2	2.43	0.54
1:A:2807:TRP:O	1:A:2811:GLU:HG2	2.08	0.54
1:A:4540:PHE:O	1:A:4543:GLU:HG3	2.08	0.54
1:A:4582:VAL:HG12	1:B:4877:ASP:O	2.08	0.54
1:B:25:SER:OG	1:B:32:GLN:NE2	2.38	0.54
1:B:1115:LEU:HD21	1:B:1123:VAL:HG11	1.90	0.54
1:B:1154:ASP:HB3	1:B:1157:GLU:HB3	1.89	0.54
1:B:1950:GLU:OE2	1:B:1954:ARG:NE	2.41	0.54
1:B:2611:CYS:HA	1:B:2614:ILE:HD12	1.89	0.54
1:B:3084:GLY:HA3	1:B:3089:LYS:HZ3	1.71	0.54
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.73	0.54
1:D:886:ARG:HD3	1:D:907:LEU:HG	1.90	0.54
1:D:941:MET:HE2	1:D:941:MET:N	2.23	0.54
1:D:1131:ARG:HH11	1:D:1139:PHE:HB2	1.73	0.54
1:D:1741:GLU:O	1:D:1745:ILE:HG13	2.07	0.54
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.89	0.54
1:A:1115:LEU:HD21	1:A:1123:VAL:HG11	1.90	0.54
1:A:2103:VAL:CG1	1:A:2107:GLN:HE22	2.21	0.54
1:A:3524:MET:HE2	1:A:3595:ARG:HD3	1.89	0.54
1:A:3718:GLU:OE1	1:A:3793:MET:HE3	2.07	0.54
1:B:884:LEU:O	1:B:888:GLU:HG2	2.08	0.54
1:B:2229:VAL:HB	1:B:2267:MET:HE3	1.90	0.54
1:B:3550:ARG:O	1:B:3554:GLN:HG2	2.07	0.54
1:B:3601:ALA:HA	1:B:3604:TYR:CD1	2.42	0.54
1:D:3110:LEU:HD21	1:D:3183:VAL:HB	1.89	0.54
1:D:4229:GLU:OE1	1:D:4229:GLU:N	2.36	0.54
1:C:144:GLU:HB3	1:C:175:SER:HB3	1.90	0.54
1:C:1131:ARG:HH11	1:C:1139:PHE:HB2	1.73	0.54
1:C:1741:GLU:O	1:C:1745:ILE:HG13	2.07	0.54
1:C:2951:ILE:HA	1:C:2954:ARG:HD3	1.89	0.54
1:C:3552:PHE:HA	1:C:3555:ASN:ND2	2.23	0.54
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.89	0.54
1:A:1713:ASP:HA	1:A:1716:ILE:HD12	1.89	0.54
2:F:7:ILE:HD11	2:F:73:LYS:HB2	1.90	0.54
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.07	0.54
1:D:232:THR:HG21	1:D:257:ARG:HE	1.73	0.54
1:D:1291:LEU:HD12	1:D:1550:PRO:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1713:ASP:HA	1:D:1716:ILE:HD12	1.89	0.54
1:D:2103:VAL:CG1	1:D:2107:GLN:HE22	2.21	0.54
1:D:2229:VAL:HB	1:D:2267:MET:HE3	1.90	0.54
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:NH1	2.23	0.54
1:C:892:THR:O	1:C:904:HIS:N	2.39	0.54
1:C:2229:VAL:HB	1:C:2267:MET:HE3	1.90	0.54
1:C:2611:CYS:HA	1:C:2614:ILE:HD12	1.89	0.54
1:A:1092:PHE:HZ	1:A:1100:MET:SD	2.31	0.53
1:A:1131:ARG:HH11	1:A:1139:PHE:HB2	1.73	0.53
1:A:2821:TRP:HZ3	1:A:2878:LEU:HD13	1.73	0.53
1:A:3842:LEU:HD13	1:A:3933:PHE:CD2	2.44	0.53
1:B:232:THR:HG21	1:B:257:ARG:HE	1.73	0.53
1:B:796:ARG:NH1	1:B:796:ARG:HA	2.23	0.53
1:B:1008:SER:HB2	1:B:1017:ARG:HB3	1.89	0.53
1:B:1131:ARG:HH11	1:B:1139:PHE:HB2	1.73	0.53
1:B:1439:VAL:HG21	1:B:1448:VAL:HG11	1.89	0.53
1:B:2178:MET:O	1:B:2182:ILE:HG12	2.08	0.53
1:B:2265:LEU:HD13	1:B:2331:TYR:CE2	2.44	0.53
1:B:2821:TRP:HZ3	1:B:2878:LEU:HD13	1.73	0.53
1:B:4229:GLU:N	1:B:4229:GLU:OE1	2.36	0.53
1:D:131:LEU:O	1:D:178:ARG:NE	2.34	0.53
1:D:1092:PHE:HZ	1:D:1100:MET:SD	2.31	0.53
1:C:2581:SER:O	1:C:2585:THR:HG23	2.08	0.53
1:C:3110:LEU:HD21	1:C:3183:VAL:HB	1.89	0.53
1:A:1867:GLU:CD	1:A:1928:GLN:HE22	2.15	0.53
1:A:2229:VAL:HB	1:A:2267:MET:HE3	1.90	0.53
1:A:3262:ARG:HH22	1:A:3325:ASN:HB3	1.73	0.53
1:A:3597:GLN:NE2	1:A:3598:GLU:HG3	2.22	0.53
2:G:7:ILE:HD11	2:G:73:LYS:HB2	1.90	0.53
1:B:244:LEU:HB3	1:B:375:LYS:HZ3	1.73	0.53
1:B:1089:TYR:CZ	1:B:1214:PHE:HB2	2.43	0.53
1:B:1721:GLU:HG2	1:B:1722:SER:N	2.23	0.53
1:B:4977:THR:OG1	1:B:5029:ARG:NH2	2.38	0.53
1:D:894:GLY:HA3	1:D:903:LEU:HD23	1.89	0.53
1:D:2611:CYS:HA	1:D:2614:ILE:HD12	1.89	0.53
1:D:2807:TRP:O	1:D:2811:GLU:HG2	2.08	0.53
1:D:3540:TYR:OH	1:D:3597:GLN:OE1	2.25	0.53
1:C:424:LYS:HD2	1:C:425:PRO:HD2	1.89	0.53
1:C:788:LYS:HE2	1:C:1629:GLN:HG3	1.90	0.53
1:C:1092:PHE:HZ	1:C:1100:MET:SD	2.31	0.53
1:C:3455:GLU:HA	1:C:3458:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3842:LEU:HD13	1:C:3933:PHE:CD2	2.44	0.53
1:C:3965:LEU:HA	1:C:3968:TYR:HD2	1.72	0.53
1:C:4184:MET:HB3	1:C:5021:PHE:HA	1.90	0.53
1:A:424:LYS:HD2	1:A:425:PRO:HD2	1.89	0.53
1:A:886:ARG:HD3	1:A:907:LEU:HG	1.90	0.53
1:A:2470:ILE:HA	1:A:2499:LYS:HE3	1.91	0.53
1:B:424:LYS:HD2	1:B:425:PRO:HD2	1.89	0.53
1:B:3455:GLU:HA	1:B:3458:PHE:CD1	2.43	0.53
1:B:3540:TYR:OH	1:B:3597:GLN:OE1	2.25	0.53
1:D:293:LEU:HD13	1:D:378:LEU:HD23	1.90	0.53
1:D:788:LYS:HE2	1:D:1629:GLN:HG3	1.90	0.53
1:D:862:VAL:HG12	1:D:864:PRO:HD3	1.90	0.53
1:D:1115:LEU:HD21	1:D:1123:VAL:HG11	1.90	0.53
1:D:1170:MET:HB3	1:C:3479:ALA:HB3	1.90	0.53
1:D:2094:LEU:O	1:D:2098:VAL:HG23	2.09	0.53
1:D:2821:TRP:HZ3	1:D:2878:LEU:HD13	1.73	0.53
1:D:3316:LEU:HD21	1:D:3346:VAL:HG13	1.91	0.53
1:D:3552:PHE:HA	1:D:3555:ASN:ND2	2.23	0.53
1:C:1291:LEU:HB3	1:C:1595:LEU:HD11	1.89	0.53
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:NH1	2.23	0.53
1:C:3524:MET:HE2	1:C:3595:ARG:HD3	1.90	0.53
1:A:179:TYR:N	1:A:194:SER:O	2.36	0.53
1:A:460:GLN:N	1:A:463:GLU:OE2	2.39	0.53
1:A:941:MET:HE2	1:A:941:MET:N	2.23	0.53
1:A:1078:GLU:HB3	1:A:1081:TYR:HD2	1.74	0.53
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.22	0.53
1:A:3244:PRO:HD2	1:A:3249:LEU:HD21	1.91	0.53
1:A:4018:ASP:HA	1:A:4021:LYS:HE3	1.91	0.53
1:A:4947:GLN:HB3	1:A:4951:LYS:NZ	2.24	0.53
1:B:2615:ARG:HB2	1:B:2618:MET:CE	2.38	0.53
1:B:4937:ILE:HD11	1:C:4930:ALA:HB1	1.90	0.53
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.07	0.53
1:C:818:ARG:NH2	1:C:1027:LEU:O	2.22	0.53
1:C:886:ARG:HD3	1:C:907:LEU:HG	1.90	0.53
1:C:1078:GLU:HB3	1:C:1081:TYR:HD2	1.74	0.53
1:C:1268:PRO:HB2	1:C:1591:CYS:HB2	1.91	0.53
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.09	0.53
1:C:3020:THR:OG1	1:C:3023:LYS:O	2.23	0.53
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.07	0.53
1:A:2581:SER:O	1:A:2585:THR:HG23	2.08	0.53
1:A:2859:PRO:HB3	1:A:2932:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3316:LEU:HD21	1:A:3346:VAL:HG13	1.91	0.53
1:A:3455:GLU:HA	1:A:3458:PHE:CD1	2.43	0.53
1:B:2740:VAL:HG12	1:B:2818:ALA:HB1	1.91	0.53
1:D:1459:GLN:OE1	1:D:1459:GLN:N	2.41	0.53
1:D:4713:SER:HG	1:D:4775:TYR:HH	1.55	0.53
1:C:468:LEU:HB3	1:C:472:ARG:HH12	1.74	0.53
1:C:1950:GLU:OE2	1:C:1954:ARG:NE	2.41	0.53
1:C:2612[A]:ARG:HH11	1:C:2612[A]:ARG:CB	2.20	0.53
1:C:3017:PHE:HA	1:C:3031:ALA:HB2	1.91	0.53
1:A:25:SER:OG	1:A:32:GLN:NE2	2.38	0.53
1:A:155:LYS:HG3	1:A:156:GLN:H	1.72	0.53
1:A:600:LEU:HD11	1:A:1669:LEU:HD22	1.91	0.53
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.07	0.53
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	1.89	0.53
1:B:1459:GLN:N	1:B:1459:GLN:OE1	2.41	0.53
1:B:2470:ILE:HA	1:B:2499:LYS:HE3	1.91	0.53
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.91	0.53
1:B:2803:GLU:OE1	1:B:2806:ARG:NE	2.42	0.53
1:B:2807:TRP:O	1:B:2811:GLU:HG2	2.08	0.53
1:B:3244:PRO:HD2	1:B:3249:LEU:HD21	1.91	0.53
1:B:3842:LEU:HD13	1:B:3933:PHE:CD2	2.44	0.53
1:D:25:SER:OG	1:D:32:GLN:NE2	2.38	0.53
1:D:1950:GLU:OE2	1:D:1954:ARG:NE	2.41	0.53
1:D:2577:ILE:HG13	1:D:2578:MET:H	1.74	0.53
1:D:2581:SER:O	1:D:2585:THR:HG23	2.08	0.53
1:D:3625:SER:O	1:D:3629:ARG:HG2	2.09	0.53
1:D:4018:ASP:HA	1:D:4021:LYS:HE3	1.91	0.53
1:D:4184:MET:HB3	1:D:5021:PHE:HA	1.90	0.53
1:C:232:THR:HG21	1:C:257:ARG:HE	1.73	0.53
1:C:884:LEU:O	1:C:888:GLU:HG2	2.08	0.53
1:C:1115:LEU:HD21	1:C:1123:VAL:HG11	1.90	0.53
1:C:2740:VAL:HG12	1:C:2818:ALA:HB1	1.91	0.53
1:C:2807:TRP:O	1:C:2811:GLU:HG2	2.08	0.53
1:C:2859:PRO:HB3	1:C:2932:MET:SD	2.49	0.53
1:A:788:LYS:HE2	1:A:1629:GLN:HG3	1.90	0.53
1:A:884:LEU:O	1:A:888:GLU:HG2	2.08	0.53
1:A:1651:LEU:O	1:A:1654:SER:OG	2.25	0.53
1:A:2328:GLY:O	1:A:2332:LEU:HG	2.09	0.53
1:A:2615:ARG:HB2	1:A:2618:MET:CE	2.38	0.53
1:B:2542:SER:HB2	1:B:2594:SER:HB2	1.90	0.53
1:B:3725:TYR:O	1:B:3729:MET:HE3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:GLU:OE2	1:D:392:ARG:NH1	2.42	0.53
1:D:2859:PRO:HB3	1:D:2932:MET:SD	2.49	0.53
1:D:3524:MET:HE2	1:D:3595:ARG:HD3	1.89	0.53
1:D:4219:PHE:HD1	1:D:4950:VAL:HG11	1.73	0.53
1:C:347:PHE:HB3	1:C:356:TRP:CZ3	2.44	0.53
1:C:894:GLY:HA3	1:C:903:LEU:HD23	1.89	0.53
1:C:3368:ARG:HG2	1:C:3371:LYS:HZ2	1.73	0.53
1:C:3625:SER:O	1:C:3629:ARG:HG2	2.09	0.53
1:C:3725:TYR:O	1:C:3729:MET:HE3	2.08	0.53
1:A:538:ALA:O	1:A:542:THR:HG23	2.09	0.53
1:A:955:LEU:HD12	1:A:966:LYS:HB3	1.91	0.53
1:A:1125:ASN:HB3	1:A:1128:ARG:CZ	2.39	0.53
1:B:2328:GLY:O	1:B:2332:LEU:HG	2.08	0.53
1:B:2612[A]:ARG:HH11	1:B:2612[A]:ARG:CB	2.20	0.53
1:B:3479:ALA:HB1	1:C:1140:GLY:HA2	1.90	0.53
1:B:4556:SER:HB2	1:B:4664:LEU:HD13	1.91	0.53
1:B:4767:TRP:CE2	1:B:4771:ILE:HD11	2.44	0.53
1:D:424:LYS:HD2	1:D:425:PRO:HD2	1.89	0.53
1:D:707:VAL:HG23	1:D:713:SER:HB2	1.91	0.53
1:D:2178:MET:O	1:D:2182:ILE:HG12	2.08	0.53
1:D:2182:ILE:HA	1:D:2185:ILE:HD12	1.91	0.53
1:D:2272:PRO:O	1:D:2275:VAL:HG12	2.09	0.53
1:D:3017:PHE:HA	1:D:3031:ALA:HB2	1.91	0.53
1:D:3842:LEU:HD13	1:D:3933:PHE:CD2	2.44	0.53
1:C:460:GLN:N	1:C:463:GLU:OE2	2.39	0.53
1:C:684:VAL:HG22	1:C:781:VAL:HG12	1.91	0.53
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.89	0.53
1:C:4219:PHE:HD1	1:C:4950:VAL:HG11	1.73	0.53
1:C:4540:PHE:O	1:C:4543:GLU:HG3	2.08	0.53
1:A:468:LEU:HB3	1:A:472:ARG:HH12	1.74	0.53
1:A:707:VAL:HG23	1:A:713:SER:HB2	1.91	0.53
1:A:1133:HIS:O	1:A:1134:LEU:C	2.50	0.53
1:A:1950:GLU:OE2	1:A:1954:ARG:NE	2.41	0.53
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.91	0.53
1:A:2542:SER:HB2	1:A:2594:SER:HB2	1.90	0.53
1:A:3147:ILE:CD1	1:A:3152:PHE:HB2	2.39	0.53
1:A:4556:SER:HB2	1:A:4664:LEU:HD13	1.91	0.53
1:B:181:HIS:ND1	1:B:198:THR:OG1	2.32	0.53
1:B:1867:GLU:CD	1:B:1928:GLN:HE22	2.15	0.53
1:B:2182:ILE:HA	1:B:2185:ILE:HD12	1.91	0.53
1:B:2514:ASN:HB2	1:B:2517:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2859:PRO:HB3	1:B:2932:MET:SD	2.48	0.53
1:B:4018:ASP:HA	1:B:4021:LYS:HE3	1.91	0.53
1:D:538:ALA:O	1:D:542:THR:HG23	2.09	0.53
1:D:2023:LEU:HD22	1:D:2027:ILE:HG21	1.91	0.53
1:D:3244:PRO:HD2	1:D:3249:LEU:HD21	1.91	0.53
1:D:3262:ARG:HH22	1:D:3325:ASN:HB3	1.73	0.53
1:D:3725:TYR:O	1:D:3729:MET:HE3	2.08	0.53
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.91	0.53
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.91	0.53
1:C:3364:ARG:HA	1:C:3367:LYS:HG2	1.91	0.53
1:C:4556:SER:HB2	1:C:4664:LEU:HD13	1.91	0.53
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.09	0.53
1:A:2178:MET:O	1:A:2182:ILE:HG12	2.08	0.53
1:A:2272:PRO:O	1:A:2275:VAL:HG12	2.09	0.53
1:A:2355:ARG:O	1:A:2359:ARG:HG2	2.09	0.53
1:B:1125:ASN:HB3	1:B:1128:ARG:CZ	2.39	0.53
1:B:1713:ASP:HA	1:B:1716:ILE:HD12	1.89	0.53
1:B:3316:LEU:HD21	1:B:3346:VAL:HG13	1.91	0.53
1:B:4540:PHE:O	1:B:4543:GLU:HG3	2.08	0.53
1:D:468:LEU:HB3	1:D:472:ARG:HH12	1.74	0.53
1:D:796:ARG:NH1	1:D:796:ARG:HA	2.24	0.53
1:D:884:LEU:O	1:D:888:GLU:HG2	2.08	0.53
1:D:1154:ASP:HB3	1:D:1157:GLU:HB3	1.89	0.53
1:D:2265:LEU:HD13	1:D:2331:TYR:CE2	2.44	0.53
1:C:211:GLU:OE2	1:C:392:ARG:NH1	2.42	0.53
1:C:862:VAL:HG12	1:C:864:PRO:HD3	1.91	0.53
1:C:955:LEU:HD12	1:C:966:LYS:HB3	1.91	0.53
1:C:2514:ASN:HB2	1:C:2517:PHE:HB3	1.91	0.53
1:C:2803:GLU:OE1	1:C:2806:ARG:NE	2.42	0.53
1:A:1459:GLN:OE1	1:A:1459:GLN:N	2.41	0.52
1:A:1721:GLU:HG2	1:A:1722:SER:N	2.23	0.52
1:A:2534:ALA:HA	1:A:2588:ARG:NH1	2.21	0.52
1:A:4767:TRP:CE2	1:A:4771:ILE:HD11	2.44	0.52
1:B:468:LEU:HB3	1:B:472:ARG:HH12	1.74	0.52
1:B:600:LEU:HD11	1:B:1669:LEU:HD22	1.91	0.52
1:B:1240:LYS:CB	1:B:1604:SER:O	2.57	0.52
1:B:3625:SER:O	1:B:3629:ARG:HG2	2.09	0.52
1:D:181:HIS:HA	1:D:198:THR:HB	1.91	0.52
1:D:1576:SER:HA	1:D:1579:MET:HE2	1.92	0.52
1:D:2328:GLY:O	1:D:2332:LEU:HG	2.09	0.52
1:D:4556:SER:HB2	1:D:4664:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1125:ASN:HB3	1:C:1128:ARG:CZ	2.39	0.52
1:C:2470:ILE:HA	1:C:2499:LYS:HE3	1.91	0.52
1:C:2577:ILE:HG13	1:C:2578:MET:H	1.74	0.52
1:C:3316:LEU:HD21	1:C:3346:VAL:HG13	1.91	0.52
1:A:1576:SER:HA	1:A:1579:MET:HE2	1.91	0.52
1:A:2265:LEU:HD13	1:A:2331:TYR:CE2	2.44	0.52
1:A:3625:SER:O	1:A:3629:ARG:HG2	2.09	0.52
1:B:211:GLU:OE2	1:B:392:ARG:NH1	2.42	0.52
1:B:2094:LEU:O	1:B:2098:VAL:HG23	2.09	0.52
1:B:2577:ILE:HG13	1:B:2578:MET:H	1.74	0.52
1:B:3498:ARG:HD3	1:B:3501:ASP:HB2	1.92	0.52
1:D:659:TYR:O	1:D:662:TRP:NE1	2.43	0.52
1:D:1125:ASN:HB3	1:D:1128:ARG:CZ	2.39	0.52
1:D:1268:PRO:HB2	1:D:1591:CYS:HB2	1.91	0.52
1:D:2003:GLN:HB2	1:D:3652:MET:HE2	1.92	0.52
1:D:2355:ARG:O	1:D:2359:ARG:HG2	2.09	0.52
1:D:2672:LEU:HD22	1:D:2710:LEU:HD12	1.92	0.52
1:D:3392:LEU:HA	1:D:3395:ARG:HB2	1.91	0.52
1:C:181:HIS:HA	1:C:198:THR:HB	1.91	0.52
1:C:181:HIS:ND1	1:C:198:THR:OG1	2.32	0.52
1:C:707:VAL:HG23	1:C:713:SER:HB2	1.91	0.52
1:C:796:ARG:NH1	1:C:796:ARG:HA	2.24	0.52
1:C:1240:LYS:CB	1:C:1604:SER:O	2.57	0.52
1:C:1651:LEU:O	1:C:1654:SER:OG	2.25	0.52
1:C:2003:GLN:HB2	1:C:3652:MET:HE2	1.92	0.52
1:A:684:VAL:HG22	1:A:781:VAL:HG12	1.91	0.52
1:A:796:ARG:NH1	1:A:796:ARG:HA	2.24	0.52
1:A:2803:GLU:OE1	1:A:2806:ARG:NE	2.42	0.52
1:A:3725:TYR:O	1:A:3729:MET:HE3	2.08	0.52
1:B:347:PHE:HB3	1:B:356:TRP:CZ3	2.44	0.52
1:B:484:LEU:O	1:B:488:LEU:HG	2.09	0.52
1:B:538:ALA:O	1:B:542:THR:HG23	2.09	0.52
1:B:1268:PRO:HB2	1:B:1591:CYS:HB2	1.91	0.52
1:B:2106:ALA:HB1	1:B:3697:PRO:HG3	1.91	0.52
1:B:2599:GLN:O	1:B:2603:ILE:HG13	2.10	0.52
1:B:2747:ILE:HG22	1:B:2814:LYS:HE2	1.91	0.52
1:B:2772:GLN:HG3	1:C:1506:GLN:NE2	2.25	0.52
1:D:257:ARG:O	1:D:284:HIS:NE2	2.29	0.52
1:D:684:VAL:HG22	1:D:781:VAL:HG12	1.91	0.52
1:D:2616:PRO:HA	1:D:2619:LEU:HD12	1.92	0.52
1:D:3536:ALA:HA	1:D:3539:ARG:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:SER:O	1:C:448:LEU:HG	2.09	0.52
1:C:538:ALA:O	1:C:542:THR:HG23	2.09	0.52
1:C:2672:LEU:HD22	1:C:2710:LEU:HD12	1.92	0.52
1:C:4767:TRP:CE2	1:C:4771:ILE:HD11	2.44	0.52
1:A:211:GLU:OE2	1:A:392:ARG:NH1	2.42	0.52
1:A:347:PHE:HB3	1:A:356:TRP:CZ3	2.44	0.52
1:A:2023:LEU:HD22	1:A:2027:ILE:HG21	1.91	0.52
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.91	0.52
1:A:3536:ALA:HA	1:A:3539:ARG:HB2	1.92	0.52
1:A:3588:ASP:H	1:A:3591:LYS:HE3	1.75	0.52
1:B:663:TYR:CE1	1:B:745:SER:HB2	2.36	0.52
1:B:886:ARG:HD3	1:B:907:LEU:HG	1.90	0.52
1:B:2233:CYS:O	1:B:2235:PHE:N	2.42	0.52
1:B:2626:LEU:O	1:B:2630:VAL:N	2.42	0.52
1:D:484:LEU:O	1:D:488:LEU:HG	2.09	0.52
1:D:955:LEU:HD12	1:D:966:LYS:HB3	1.91	0.52
1:D:1867:GLU:CD	1:D:1928:GLN:HE22	2.15	0.52
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.91	0.52
1:D:2740:VAL:HG12	1:D:2818:ALA:HB1	1.91	0.52
1:D:2792:ARG:O	1:D:2855:TYR:OH	2.28	0.52
1:D:4767:TRP:CE2	1:D:4771:ILE:HD11	2.44	0.52
1:C:1005:TRP:CZ3	1:C:1018:ASN:HB2	2.45	0.52
1:C:2103:VAL:CG1	1:C:2107:GLN:HE22	2.21	0.52
1:C:2355:ARG:O	1:C:2359:ARG:HG2	2.09	0.52
1:C:2542:SER:HB2	1:C:2594:SER:HB2	1.90	0.52
1:C:2623:LEU:O	1:C:2627:VAL:HG23	2.09	0.52
1:C:3244:PRO:HD2	1:C:3249:LEU:HD21	1.91	0.52
1:C:3536:ALA:HA	1:C:3539:ARG:HB2	1.92	0.52
1:C:4018:ASP:HA	1:C:4021:LYS:HE3	1.91	0.52
1:A:20:VAL:HB	1:A:202:MET:HE2	1.92	0.52
1:A:181:HIS:HA	1:A:198:THR:HB	1.91	0.52
1:A:1005:TRP:CZ3	1:A:1018:ASN:HB2	2.45	0.52
1:A:3123:LYS:HG3	1:A:3126:GLY:H	1.75	0.52
1:B:293:LEU:HD13	1:B:378:LEU:HD23	1.90	0.52
1:B:941:MET:HE2	1:B:941:MET:N	2.23	0.52
1:B:2023:LEU:HD22	1:B:2027:ILE:HG21	1.91	0.52
1:B:2616:PRO:HA	1:B:2619:LEU:HD12	1.92	0.52
1:D:347:PHE:HB3	1:D:356:TRP:CZ3	2.44	0.52
1:D:865:PRO:O	1:D:869:ARG:HG2	2.10	0.52
1:D:3499:ARG:HG3	1:D:3502:ARG:HH22	1.75	0.52
1:D:5019:TRP:HH2	6:D:5304:PNX:HAA2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2265:LEU:HD13	1:C:2331:TYR:CE2	2.44	0.52
1:C:2447:LYS:HZ3	1:C:2449:GLU:HB3	1.74	0.52
1:A:659:TYR:O	1:A:662:TRP:NE1	2.43	0.52
1:A:2514:ASN:HB2	1:A:2517:PHE:HB3	1.91	0.52
1:A:2595:LEU:O	1:A:2600:ARG:NH2	2.43	0.52
1:A:2672:LEU:HD22	1:A:2710:LEU:HD12	1.92	0.52
1:A:3019:SER:HB2	1:A:3030:HIS:HA	1.92	0.52
1:A:3207:GLU:HG2	1:A:3210:LEU:HD12	1.92	0.52
1:A:3364:ARG:HA	1:A:3367:LYS:HG2	1.91	0.52
2:H:7:ILE:HD11	2:H:73:LYS:HB2	1.90	0.52
1:B:155:LYS:HG3	1:B:156:GLN:H	1.72	0.52
1:B:707:VAL:HG23	1:B:713:SER:HB2	1.91	0.52
1:B:865:PRO:O	1:B:869:ARG:HG2	2.10	0.52
1:B:955:LEU:HD12	1:B:966:LYS:HB3	1.91	0.52
1:B:975:VAL:HG11	1:B:1044:ARG:O	2.10	0.52
1:B:2140:ARG:NH2	1:B:2201:LEU:HD23	2.25	0.52
1:B:2595:LEU:O	1:B:2600:ARG:NH2	2.43	0.52
1:B:2993:GLN:N	1:B:2993:GLN:OE1	2.42	0.52
1:B:3536:ALA:HA	1:B:3539:ARG:HB2	1.92	0.52
1:D:20:VAL:HB	1:D:202:MET:HE2	1.92	0.52
1:D:1005:TRP:CZ3	1:D:1018:ASN:HB2	2.45	0.52
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.10	0.52
1:D:2233:CYS:O	1:D:2235:PHE:N	2.42	0.52
1:D:3123:LYS:HG3	1:D:3126:GLY:H	1.74	0.52
1:D:3733:CYS:HB2	1:D:3803:SER:OG	2.10	0.52
1:C:600:LEU:HD11	1:C:1669:LEU:HD22	1.91	0.52
1:C:1459:GLN:OE1	1:C:1459:GLN:N	2.41	0.52
1:C:2135:LEU:HA	1:C:2138:LEU:HD12	1.92	0.52
1:C:2272:PRO:O	1:C:2275:VAL:HG12	2.09	0.52
1:C:3123:LYS:HG3	1:C:3126:GLY:H	1.74	0.52
1:C:3262:ARG:HH22	1:C:3325:ASN:HB3	1.73	0.52
1:C:3499:ARG:HG3	1:C:3502:ARG:HH22	1.75	0.52
1:A:72:SER:HB3	1:A:101:LEU:HD22	1.92	0.52
1:A:484:LEU:O	1:A:488:LEU:HG	2.09	0.52
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.43	0.52
1:A:862:VAL:HG12	1:A:864:PRO:HD3	1.91	0.52
1:A:1240:LYS:CB	1:A:1604:SER:O	2.57	0.52
1:A:2003:GLN:HB2	1:A:3652:MET:HE2	1.92	0.52
1:A:3392:LEU:HA	1:A:3395:ARG:HB2	1.91	0.52
1:A:3733:CYS:HB2	1:A:3803:SER:OG	2.10	0.52
1:A:4658:ILE:HD13	1:A:4792:LEU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:444:SER:O	1:B:448:LEU:HG	2.09	0.52
1:B:659:TYR:O	1:B:662:TRP:NE1	2.43	0.52
1:B:2258:LEU:HB3	1:B:2297:LYS:HE2	1.92	0.52
1:B:2272:PRO:O	1:B:2275:VAL:HG12	2.09	0.52
1:B:2355:ARG:O	1:B:2359:ARG:HG2	2.09	0.52
1:B:3017:PHE:HA	1:B:3031:ALA:HB2	1.91	0.52
1:B:3262:ARG:HH22	1:B:3325:ASN:HB3	1.73	0.52
1:B:3499:ARG:HG3	1:B:3502:ARG:HH22	1.74	0.52
1:B:3588:ASP:H	1:B:3591:LYS:HE3	1.75	0.52
1:B:4947:GLN:HB3	1:B:4951:LYS:NZ	2.24	0.52
1:D:753:PRO:HB2	1:D:771:PHE:CZ	2.45	0.52
1:D:1008:SER:HB2	1:D:1017:ARG:HB3	1.90	0.52
1:D:1423:ASP:HB3	1:D:1426:ILE:HG22	1.91	0.52
1:D:2470:ILE:HA	1:D:2499:LYS:HE3	1.91	0.52
1:D:2694:GLU:OE2	1:D:2697:ARG:NE	2.40	0.52
1:D:2891:LYS:O	1:D:2895:GLU:HB3	2.10	0.52
1:D:2993:GLN:OE1	1:D:2993:GLN:N	2.42	0.52
1:D:3364:ARG:HA	1:D:3367:LYS:HG2	1.91	0.52
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.43	0.52
1:C:2106:ALA:HB1	1:C:3697:PRO:HG3	1.91	0.52
1:C:2328:GLY:O	1:C:2332:LEU:HG	2.09	0.52
1:C:2616:PRO:HA	1:C:2619:LEU:HD12	1.92	0.52
1:C:3392:LEU:HA	1:C:3395:ARG:HB2	1.91	0.52
1:C:3648:ARG:HA	1:C:3651:ASN:HD22	1.75	0.52
1:C:4947:GLN:HB3	1:C:4951:LYS:NZ	2.24	0.52
1:A:835:ARG:HG3	1:A:838:HIS:NE2	2.25	0.52
1:A:2258:LEU:HB3	1:A:2297:LYS:HE2	1.92	0.52
1:A:2577:ILE:HG13	1:A:2578:MET:H	1.74	0.52
1:A:2616:PRO:HA	1:A:2619:LEU:HD12	1.92	0.52
1:A:4888:TYR:HD1	1:B:4914:VAL:HG13	1.74	0.52
1:B:20:VAL:HB	1:B:202:MET:HE2	1.92	0.52
1:B:862:VAL:HG12	1:B:864:PRO:HD3	1.90	0.52
1:B:1423:ASP:HB3	1:B:1426:ILE:HG22	1.91	0.52
1:B:1576:SER:HA	1:B:1579:MET:HE2	1.91	0.52
1:B:4658:ILE:HD13	1:B:4792:LEU:HB3	1.92	0.52
1:D:72:SER:HB3	1:D:101:LEU:HD22	1.92	0.52
1:D:155:LYS:HG3	1:D:156:GLN:H	1.72	0.52
1:D:600:LEU:HD11	1:D:1669:LEU:HD22	1.91	0.52
1:D:2106:ALA:HB1	1:D:3697:PRO:HG3	1.91	0.52
1:D:2135:LEU:HA	1:D:2138:LEU:HD12	1.92	0.52
1:D:2542:SER:HB2	1:D:2594:SER:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2747:ILE:HG22	1:D:2814:LYS:HE2	1.91	0.52
1:D:2951:ILE:HG21	1:D:3032:SER:OG	2.10	0.52
1:C:20:VAL:HB	1:C:202:MET:HE2	1.92	0.52
1:C:975:VAL:HG11	1:C:1044:ARG:O	2.10	0.52
1:C:3878:ASP:OD1	1:C:3879:GLU:N	2.43	0.52
1:A:444:SER:O	1:A:448:LEU:HG	2.09	0.52
1:A:2891:LYS:O	1:A:2895:GLU:HB3	2.10	0.52
1:B:684:VAL:HG22	1:B:781:VAL:HG12	1.91	0.52
1:B:788:LYS:HE2	1:B:1629:GLN:HG3	1.90	0.52
1:B:4068:LEU:O	1:B:4072:VAL:HG13	2.10	0.52
1:B:5019:TRP:HH2	6:B:5304:PNX:HAA2	1.75	0.52
1:D:1078:GLU:HB3	1:D:1081:TYR:HD2	1.74	0.52
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.35	0.52
1:D:2812:SER:HB2	1:D:2882:TYR:CE1	2.45	0.52
1:D:3207:GLU:HG2	1:D:3210:LEU:HD12	1.92	0.52
1:D:3498:ARG:HD3	1:D:3501:ASP:HB2	1.91	0.52
1:D:3648:ARG:HA	1:D:3651:ASN:HD22	1.75	0.52
1:C:155:LYS:HG3	1:C:156:GLN:H	1.72	0.52
1:C:484:LEU:O	1:C:488:LEU:HG	2.09	0.52
1:C:753:PRO:HB2	1:C:771:PHE:CZ	2.45	0.52
1:C:792:LEU:HD22	1:C:798:GLY:HA3	1.92	0.52
1:C:1576:SER:HA	1:C:1579:MET:HE2	1.91	0.52
1:C:2615:ARG:HB2	1:C:2618:MET:CE	2.37	0.52
1:C:2789:PRO:O	1:C:2792:ARG:NE	2.42	0.52
1:C:3157:ILE:HG22	1:C:3162:GLN:CD	2.35	0.52
1:C:3398:PHE:O	1:C:3402:CYS:N	2.34	0.52
1:C:3498:ARG:HD3	1:C:3501:ASP:HB2	1.91	0.52
1:C:3733:CYS:HB2	1:C:3803:SER:OG	2.10	0.52
1:A:131:LEU:O	1:A:178:ARG:NE	2.34	0.52
1:A:2135:LEU:HA	1:A:2138:LEU:HD12	1.92	0.52
1:A:2233:CYS:O	1:A:2235:PHE:N	2.42	0.52
1:A:2316:LYS:NZ	1:A:2412:GLU:OE2	2.43	0.52
1:A:2816:MET:HE1	1:A:2823:ILE:HD13	1.92	0.52
1:A:3092:LEU:HG	1:A:3096:PHE:CE2	2.45	0.52
1:A:3157:ILE:HG22	1:A:3162:GLN:CD	2.35	0.52
1:A:3499:ARG:HG3	1:A:3502:ARG:HH22	1.75	0.52
1:A:4223:ASN:HB3	1:A:4224:GLU:OE1	2.10	0.52
1:A:5019:TRP:HH2	6:A:5304:PNX:HAA2	1.75	0.52
2:E:7:ILE:HD11	2:E:73:LYS:HB2	1.90	0.52
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.43	0.52
1:B:792:LEU:HD22	1:B:798:GLY:HA3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2812:SER:HB2	1:B:2882:TYR:CE1	2.45	0.52
1:D:2803:GLU:OE1	1:D:2806:ARG:NE	2.42	0.52
1:D:3020:THR:OG1	1:D:3023:LYS:O	2.23	0.52
1:D:3092:LEU:HG	1:D:3096:PHE:CE2	2.45	0.52
1:D:4947:GLN:HB3	1:D:4951:LYS:NZ	2.24	0.52
1:C:835:ARG:HG3	1:C:838:HIS:NE2	2.25	0.52
1:C:2233:CYS:O	1:C:2235:PHE:N	2.42	0.52
1:C:2951:ILE:HG21	1:C:3032:SER:OG	2.10	0.52
1:A:259:LEU:HD11	1:A:397:GLU:HG2	1.93	0.51
1:A:1268:PRO:HB2	1:A:1591:CYS:HB2	1.91	0.51
1:A:1423:ASP:HB3	1:A:1426:ILE:HG22	1.91	0.51
1:A:2755:ILE:HD11	1:A:2813:LEU:HD23	1.92	0.51
1:A:3017:PHE:HA	1:A:3031:ALA:HB2	1.91	0.51
1:B:181:HIS:HA	1:B:198:THR:HB	1.91	0.51
1:B:2103:VAL:CG1	1:B:2107:GLN:HE22	2.21	0.51
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.92	0.51
1:B:3019:SER:HB2	1:B:3030:HIS:HA	1.92	0.51
1:B:3104:GLU:HA	1:B:3107:VAL:HG22	1.93	0.51
1:B:3364:ARG:HA	1:B:3367:LYS:HG2	1.91	0.51
1:B:3648:ARG:HA	1:B:3651:ASN:HD22	1.75	0.51
1:D:444:SER:O	1:D:448:LEU:HG	2.09	0.51
1:D:2816:MET:HE1	1:D:2823:ILE:HD13	1.93	0.51
1:C:865:PRO:O	1:C:869:ARG:HG2	2.10	0.51
1:C:890:GLY:HA3	1:C:902:ARG:NH2	2.25	0.51
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.10	0.51
1:C:2595:LEU:O	1:C:2600:ARG:NH2	2.43	0.51
1:C:2599:GLN:O	1:C:2603:ILE:HG13	2.10	0.51
1:C:2626:LEU:O	1:C:2630:VAL:N	2.43	0.51
1:A:244:LEU:HB3	1:A:375:LYS:HZ3	1.75	0.51
1:A:865:PRO:O	1:A:869:ARG:HG2	2.10	0.51
1:A:2106:ALA:HB1	1:A:3697:PRO:HG3	1.91	0.51
1:A:2159:LEU:HD21	1:A:2203:MET:HE2	1.92	0.51
1:A:2740:VAL:HG12	1:A:2818:ALA:HB1	1.91	0.51
1:A:2788:HIS:CE1	1:A:2790:MET:HE2	2.45	0.51
1:A:2792:ARG:O	1:A:2855:TYR:OH	2.28	0.51
1:A:2812:SER:HB2	1:A:2882:TYR:CE1	2.45	0.51
1:A:3753:PHE:HA	1:A:3756:LYS:NZ	2.25	0.51
1:A:4068:LEU:O	1:A:4072:VAL:HG13	2.10	0.51
2:E:73:LYS:HZ3	2:E:100:ASP:HB2	1.75	0.51
1:B:2135:LEU:HA	1:B:2138:LEU:HD12	1.92	0.51
1:B:2672:LEU:HD22	1:B:2710:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3092:LEU:HG	1:B:3096:PHE:CE2	2.45	0.51
1:B:3157:ILE:HG22	1:B:3162:GLN:CD	2.35	0.51
1:B:3392:LEU:HA	1:B:3395:ARG:HB2	1.90	0.51
1:D:871:ARG:HH22	1:D:922:LEU:C	2.19	0.51
1:D:1155:LEU:HD12	1:D:1184:ILE:HG23	1.92	0.51
1:D:1240:LYS:CB	1:D:1604:SER:O	2.57	0.51
1:D:2599:GLN:O	1:D:2603:ILE:HG13	2.10	0.51
1:D:3147:ILE:CD1	1:D:3152:PHE:HB2	2.39	0.51
1:C:259:LEU:HD11	1:C:397:GLU:HG2	1.93	0.51
1:C:2993:GLN:OE1	1:C:2993:GLN:N	2.42	0.51
1:C:4223:ASN:HB3	1:C:4224:GLU:OE1	2.10	0.51
1:A:225:GLY:HA2	1:B:155:LYS:NZ	2.25	0.51
1:A:753:PRO:HB2	1:A:771:PHE:CZ	2.45	0.51
1:A:871:ARG:HH22	1:A:922:LEU:C	2.19	0.51
1:A:2623:LEU:O	1:A:2627:VAL:HG23	2.09	0.51
1:A:3984:ARG:NH1	1:B:161:GLU:HG3	2.25	0.51
1:B:259:LEU:HD11	1:B:397:GLU:HG2	1.93	0.51
1:B:871:ARG:HH22	1:B:922:LEU:C	2.19	0.51
1:B:2003:GLN:HB2	1:B:3652:MET:HE2	1.92	0.51
1:B:3733:CYS:HB2	1:B:3803:SER:OG	2.10	0.51
1:B:4892:ARG:HH12	1:C:4898:GLY:N	2.07	0.51
1:D:2514:ASN:HB2	1:D:2517:PHE:HB3	1.91	0.51
1:D:3019:SER:HB2	1:D:3030:HIS:HA	1.92	0.51
1:D:3270:ILE:HG23	1:D:3274:LEU:HD12	1.93	0.51
1:D:3878:ASP:OD1	1:D:3879:GLU:N	2.43	0.51
1:C:2258:LEU:HB3	1:C:2297:LYS:HE2	1.92	0.51
1:A:2612[A]:ARG:HH11	1:A:2612[A]:ARG:CB	2.20	0.51
1:B:72:SER:HB3	1:B:101:LEU:HD22	1.92	0.51
1:B:753:PRO:HB2	1:B:771:PHE:CZ	2.45	0.51
1:B:1023:PRO:O	1:B:1027:LEU:N	2.44	0.51
1:B:1078:GLU:HB3	1:B:1081:TYR:HD2	1.74	0.51
1:B:3036:LYS:HD2	1:B:3076:ASP:H	1.76	0.51
1:D:2676:ARG:HB2	1:D:2714:TYR:HH	1.75	0.51
1:D:2788:HIS:CE1	1:D:2790:MET:HE2	2.45	0.51
1:C:659:TYR:O	1:C:662:TRP:NE1	2.42	0.51
1:C:1119:GLU:HA	1:C:1133:HIS:NE2	2.26	0.51
1:C:1854:PHE:HD2	1:C:1858:ASP:HB3	1.76	0.51
1:C:1867:GLU:CD	1:C:1928:GLN:HE22	2.15	0.51
1:C:2294:ASP:OD1	1:C:2297:LYS:NZ	2.43	0.51
1:C:3141:THR:CG2	1:C:3145:GLN:HE22	2.24	0.51
1:C:3673:MET:SD	1:C:3728:ILE:HD13	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:975:VAL:HG11	1:A:1044:ARG:O	2.10	0.51
1:A:1155:LEU:HD12	1:A:1184:ILE:HG23	1.92	0.51
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.10	0.51
1:A:2633:LEU:HB2	1:A:2689:LYS:HE2	1.92	0.51
1:A:2986:VAL:HG22	1:A:2988:LYS:H	1.76	0.51
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.44	0.51
1:A:4040:ILE:HG22	1:A:4044:MET:HE2	1.93	0.51
1:B:835:ARG:HG3	1:B:838:HIS:NE2	2.25	0.51
1:B:1119:GLU:HA	1:B:1133:HIS:NE2	2.25	0.51
1:B:2469:ILE:HD13	1:B:2502:MET:HE3	1.93	0.51
1:B:2788:HIS:CE1	1:B:2790:MET:HE2	2.45	0.51
1:B:2986:VAL:HG22	1:B:2988:LYS:H	1.76	0.51
1:B:3123:LYS:HG3	1:B:3126:GLY:H	1.75	0.51
1:B:3270:ILE:HG23	1:B:3274:LEU:HD12	1.93	0.51
1:B:3673:MET:SD	1:B:3728:ILE:HD13	2.50	0.51
1:D:259:LEU:HD11	1:D:397:GLU:HG2	1.92	0.51
1:D:716:PHE:CE1	1:D:764:VAL:HG11	2.46	0.51
1:D:975:VAL:HG11	1:D:1044:ARG:O	2.10	0.51
1:D:1977:TYR:O	1:D:1981:MET:HG3	2.11	0.51
1:D:2140:ARG:NH2	1:D:2201:LEU:HD23	2.25	0.51
1:D:2595:LEU:O	1:D:2600:ARG:NH2	2.43	0.51
1:D:3588:ASP:H	1:D:3591:LYS:HE3	1.74	0.51
1:D:4223:ASN:HB3	1:D:4224:GLU:OE1	2.10	0.51
1:C:72:SER:HB3	1:C:101:LEU:HD22	1.92	0.51
1:C:3019:SER:HB2	1:C:3030:HIS:HA	1.92	0.51
1:C:4683:PHE:CZ	1:C:5017:ARG:HG3	2.46	0.51
1:A:1657:LEU:O	1:A:1661:ARG:N	2.37	0.51
1:A:2747:ILE:HG22	1:A:2814:LYS:HE2	1.91	0.51
1:A:3036:LYS:HD2	1:A:3076:ASP:H	1.76	0.51
1:A:3270:ILE:HG23	1:A:3274:LEU:HD12	1.93	0.51
1:A:3667:HIS:CE1	1:A:3669:PHE:HB3	2.46	0.51
1:B:1743[B]:ARG:HH22	1:B:1967:ASP:CG	2.19	0.51
1:B:2469:ILE:HA	1:B:2472:LEU:HD12	1.93	0.51
1:B:2816:MET:HE1	1:B:2823:ILE:HD13	1.92	0.51
1:B:3039:ILE:HA	1:B:3042:LEU:HD12	1.93	0.51
1:B:3100:SER:O	1:B:3103:ILE:N	2.43	0.51
1:B:3546:ASP:O	1:B:3550:ARG:HG2	2.11	0.51
1:B:4683:PHE:CZ	1:B:5017:ARG:HG3	2.46	0.51
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.43	0.51
1:D:2159:LEU:HD21	1:D:2203:MET:HE2	1.92	0.51
1:D:2258:LEU:HB3	1:D:2297:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3100:SER:O	1:D:3103:ILE:N	2.43	0.51
1:D:3157:ILE:HG22	1:D:3162:GLN:CD	2.35	0.51
1:D:3206:LEU:HD12	1:D:3280:TYR:CZ	2.46	0.51
1:D:3673:MET:SD	1:D:3728:ILE:HD13	2.50	0.51
1:D:3753:PHE:HA	1:D:3756:LYS:NZ	2.25	0.51
1:C:1155:LEU:HD12	1:C:1184:ILE:HG23	1.93	0.51
1:C:1691:GLN:OE1	1:C:1691:GLN:N	2.43	0.51
1:C:2788:HIS:CE1	1:C:2790:MET:HE2	2.45	0.51
1:A:1119:GLU:HA	1:A:1133:HIS:NE2	2.25	0.51
1:A:2140:ARG:NH2	1:A:2201:LEU:HD23	2.25	0.51
1:A:3037:GLU:HG3	1:A:3080:VAL:HG22	1.92	0.51
1:A:3039:ILE:HA	1:A:3042:LEU:HD12	1.93	0.51
1:A:3104:GLU:HA	1:A:3107:VAL:HG22	1.93	0.51
1:B:1854:PHE:HD2	1:B:1858:ASP:HB3	1.76	0.51
1:B:2294:ASP:OD1	1:B:2297:LYS:NZ	2.43	0.51
1:B:2891:LYS:O	1:B:2895:GLU:HB3	2.10	0.51
1:B:3037:GLU:HG3	1:B:3080:VAL:HG22	1.92	0.51
1:B:3667:HIS:CE1	1:B:3669:PHE:HB3	2.46	0.51
1:B:4223:ASN:HB3	1:B:4224:GLU:OE1	2.10	0.51
1:D:890:GLY:HA3	1:D:902:ARG:NH2	2.25	0.51
1:D:2207:VAL:HG12	1:D:2211:MET:HE3	1.93	0.51
1:D:2789:PRO:O	1:D:2792:ARG:NE	2.41	0.51
1:D:4040:ILE:HG22	1:D:4044:MET:HE2	1.93	0.51
1:D:4658:ILE:HD13	1:D:4792:LEU:HB3	1.92	0.51
1:C:25:SER:OG	1:C:32:GLN:NE2	2.38	0.51
1:C:1657:LEU:O	1:C:1661:ARG:N	2.37	0.51
1:C:2469:ILE:HA	1:C:2472:LEU:HD12	1.93	0.51
1:C:2986:VAL:HG22	1:C:2988:LYS:H	1.76	0.51
1:C:3410:PRO:HD3	1:C:3509:LEU:HD13	1.92	0.51
1:C:4068:LEU:O	1:C:4072:VAL:HG13	2.10	0.51
1:C:4569:LEU:HD11	1:C:4646:LEU:HD22	1.92	0.51
1:A:716:PHE:CE1	1:A:764:VAL:HG11	2.46	0.51
1:A:890:GLY:HA3	1:A:902:ARG:NH2	2.25	0.51
1:A:1023:PRO:O	1:A:1027:LEU:N	2.44	0.51
1:A:2599:GLN:O	1:A:2603:ILE:HG13	2.10	0.51
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.44	0.51
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.10	0.51
1:B:2534:ALA:HA	1:B:2588:ARG:NH1	2.21	0.51
1:B:2951:ILE:HG21	1:B:3032:SER:OG	2.10	0.51
1:B:3103:ILE:HG21	1:B:3168:THR:HG23	1.92	0.51
1:B:3753:PHE:HA	1:B:3756:LYS:NZ	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3878:ASP:OD1	1:B:3879:GLU:N	2.43	0.51
1:B:4040:ILE:HG22	1:B:4044:MET:HE2	1.93	0.51
1:D:426:ARG:NH1	1:D:427:GLY:O	2.44	0.51
1:D:2623:LEU:O	1:D:2627:VAL:HG23	2.10	0.51
1:D:2763:HIS:HB2	1:D:2802:LYS:NZ	2.26	0.51
1:D:3039:ILE:HA	1:D:3042:LEU:HD12	1.93	0.51
1:D:3084:GLY:HA3	1:D:3089:LYS:HZ3	1.75	0.51
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.44	0.51
1:C:16:THR:OG1	1:C:99:ARG:N	2.41	0.51
1:C:244:LEU:HB3	1:C:375:LYS:HZ3	1.76	0.51
1:C:2812:SER:HB2	1:C:2882:TYR:CE1	2.45	0.51
1:C:2816:MET:HE1	1:C:2823:ILE:HD13	1.92	0.51
1:C:3036:LYS:HD2	1:C:3076:ASP:H	1.76	0.51
1:C:3104:GLU:HA	1:C:3107:VAL:HG22	1.93	0.51
1:C:3207:GLU:HG2	1:C:3210:LEU:HD12	1.92	0.51
1:C:3416:VAL:O	1:C:3420:ARG:N	2.44	0.51
1:C:3546:ASP:O	1:C:3550:ARG:HG2	2.11	0.51
1:C:3607:GLU:O	1:C:3611:HIS:ND1	2.44	0.51
1:C:3753:PHE:HA	1:C:3756:LYS:NZ	2.25	0.51
1:A:276:TRP:O	1:A:328:LYS:NZ	2.44	0.51
1:A:1977:TYR:O	1:A:1981:MET:HG3	2.11	0.51
1:A:2469:ILE:HD13	1:A:2502:MET:HE3	1.93	0.51
1:A:3100:SER:O	1:A:3103:ILE:N	2.43	0.51
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.93	0.51
1:B:1743[A]:ARG:HH22	1:B:1967:ASP:CG	2.19	0.51
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.09	0.51
1:B:3078:ARG:NH1	1:B:3152:PHE:HD1	2.09	0.51
1:D:1119:GLU:HA	1:D:1133:HIS:NE2	2.25	0.51
1:D:2637:ALA:C	1:D:2640:PRO:HD2	2.36	0.51
1:D:3416:VAL:O	1:D:3420:ARG:N	2.44	0.51
1:C:1023:PRO:O	1:C:1027:LEU:N	2.44	0.51
1:C:2023:LEU:HD22	1:C:2027:ILE:HG21	1.91	0.51
1:C:2355:ARG:HE	1:C:2358:ILE:HD11	1.76	0.51
1:C:2747:ILE:HG22	1:C:2814:LYS:HE2	1.91	0.51
1:C:2755:ILE:HD11	1:C:2813:LEU:HD23	1.92	0.51
1:C:2792:ARG:O	1:C:2855:TYR:OH	2.28	0.51
1:C:3039:ILE:HA	1:C:3042:LEU:HD12	1.93	0.51
1:A:2294:ASP:OD1	1:A:2297:LYS:NZ	2.43	0.51
1:A:3206:LEU:HD12	1:A:3280:TYR:CZ	2.46	0.51
1:A:4569:LEU:HD11	1:A:4646:LEU:HD22	1.92	0.51
1:B:1005:TRP:CZ3	1:B:1018:ASN:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2763:HIS:HB2	1:B:2802:LYS:NZ	2.26	0.51
1:B:3207:GLU:HG2	1:B:3210:LEU:HD12	1.92	0.51
1:D:792:LEU:HD22	1:D:798:GLY:HA3	1.92	0.51
1:D:2490:MET:H	1:D:2490:MET:HE2	1.76	0.51
1:D:2615:ARG:HB2	1:D:2618:MET:CE	2.38	0.51
1:C:716:PHE:CE1	1:C:764:VAL:HG11	2.46	0.51
1:C:3037:GLU:HG3	1:C:3080:VAL:HG22	1.92	0.51
1:C:3078:ARG:NH1	1:C:3152:PHE:HD1	2.09	0.51
1:C:3100:SER:O	1:C:3103:ILE:N	2.43	0.51
1:C:3206:LEU:HD12	1:C:3280:TYR:CZ	2.46	0.51
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.44	0.51
1:A:213:TYR:N	1:A:341:TYR:H	2.08	0.50
1:A:231:LEU:HB2	1:A:247:TYR:CE1	2.47	0.50
1:A:792:LEU:HD22	1:A:798:GLY:HA3	1.92	0.50
1:A:2951:ILE:HG21	1:A:3032:SER:OG	2.10	0.50
1:A:3062:PRO:HA	1:A:3065:VAL:HG22	1.94	0.50
1:A:3673:MET:SD	1:A:3728:ILE:HD13	2.50	0.50
1:A:3734:HIS:CD2	1:A:3736:GLU:H	2.27	0.50
1:B:2755:ILE:HD11	1:B:2813:LEU:HD23	1.92	0.50
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.44	0.50
1:D:16:THR:OG1	1:D:99:ARG:N	2.41	0.50
1:D:3354:LEU:HA	1:D:3358:PHE:CD2	2.42	0.50
1:C:426:ARG:NH1	1:C:427:GLY:O	2.43	0.50
1:C:871:ARG:HH22	1:C:922:LEU:C	2.19	0.50
1:C:2140:ARG:NH2	1:C:2201:LEU:HD23	2.25	0.50
1:C:2490:MET:HE2	1:C:2490:MET:H	1.76	0.50
1:C:3092:LEU:HG	1:C:3096:PHE:CE2	2.45	0.50
1:C:3270:ILE:HG23	1:C:3274:LEU:HD12	1.93	0.50
1:C:3588:ASP:H	1:C:3591:LYS:HE3	1.75	0.50
1:C:3695:PRO:HB3	1:C:3699:HIS:HD2	1.76	0.50
1:C:4189:ARG:HB3	1:C:5031:GLN:NE2	2.27	0.50
1:A:426:ARG:NH1	1:A:427:GLY:O	2.44	0.50
1:A:2207:VAL:HG12	1:A:2211:MET:HE3	1.93	0.50
1:A:2637:ALA:C	1:A:2640:PRO:HD2	2.36	0.50
1:A:3078:ARG:NH1	1:A:3152:PHE:HD1	2.09	0.50
1:A:3081:MET:HA	1:A:3089:LYS:HE3	1.94	0.50
1:A:3416:VAL:O	1:A:3420:ARG:N	2.44	0.50
1:B:1122:TYR:HE1	1:B:1133:HIS:CE1	2.29	0.50
1:B:1155:LEU:HD12	1:B:1184:ILE:HG23	1.92	0.50
1:B:1977:TYR:O	1:B:1981:MET:HG3	2.11	0.50
1:B:2875:ALA:HB3	1:B:2920:ARG:HH22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3607:GLU:O	1:B:3611:HIS:ND1	2.44	0.50
1:D:231:LEU:HB2	1:D:247:TYR:CE1	2.47	0.50
1:D:2355:ARG:HE	1:D:2358:ILE:HD11	1.76	0.50
1:D:2469:ILE:HA	1:D:2472:LEU:HD12	1.93	0.50
1:D:2986:VAL:HG22	1:D:2988:LYS:H	1.76	0.50
1:D:3062:PRO:HA	1:D:3065:VAL:HG22	1.93	0.50
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	1.93	0.50
1:D:4683:PHE:CZ	1:D:5017:ARG:HG3	2.46	0.50
1:C:257:ARG:O	1:C:284:HIS:NE2	2.29	0.50
1:C:1423:ASP:HB3	1:C:1426:ILE:HG22	1.91	0.50
1:C:2367:ALA:HB3	1:C:2426:TYR:CE1	2.47	0.50
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.46	0.50
1:C:3084:GLY:HA3	1:C:3089:LYS:HZ3	1.75	0.50
1:C:4658:ILE:HD13	1:C:4792:LEU:HB3	1.92	0.50
1:A:1207:ASP:O	1:A:1210:SER:OG	2.30	0.50
1:A:2469:ILE:HA	1:A:2472:LEU:HD12	1.93	0.50
1:A:3546:ASP:O	1:A:3550:ARG:HG2	2.11	0.50
1:A:3648:ARG:HA	1:A:3651:ASN:HD22	1.75	0.50
1:A:3878:ASP:OD1	1:A:3879:GLU:N	2.43	0.50
1:A:4189:ARG:HB3	1:A:5031:GLN:NE2	2.26	0.50
1:B:2367:ALA:HB3	1:B:2426:TYR:CE1	2.47	0.50
1:D:70:GLU:OE2	1:D:110:ARG:NE	2.45	0.50
1:D:3530:GLN:O	1:D:3534:MET:HE3	2.12	0.50
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.44	0.50
1:D:4068:LEU:O	1:D:4072:VAL:HG13	2.10	0.50
1:C:2534:ALA:HA	1:C:2588:ARG:NH1	2.21	0.50
1:C:2875:ALA:HB3	1:C:2920:ARG:HH22	1.76	0.50
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.44	0.50
1:C:5019:TRP:HH2	6:C:5304:PNX:HAA2	1.75	0.50
1:A:1122:TYR:HE1	1:A:1133:HIS:CE1	2.29	0.50
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.12	0.50
1:A:2265:LEU:HB2	1:A:2330:ARG:HD2	1.94	0.50
1:A:2367:ALA:HB3	1:A:2426:TYR:CE1	2.47	0.50
1:A:2875:ALA:HB3	1:A:2920:ARG:HH22	1.76	0.50
1:A:2993:GLN:OE1	1:A:2993:GLN:N	2.42	0.50
1:A:3607:GLU:O	1:A:3611:HIS:ND1	2.44	0.50
1:A:3696:ASP:OD2	1:A:3773:ARG:NH2	2.45	0.50
1:A:3868:ARG:HH22	1:A:3870:ASN:HB3	1.76	0.50
1:B:426:ARG:NH1	1:B:427:GLY:O	2.44	0.50
1:B:890:GLY:HA3	1:B:902:ARG:NH2	2.25	0.50
1:B:2355:ARG:HE	1:B:2358:ILE:HD11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3416:VAL:O	1:B:3420:ARG:N	2.44	0.50
1:B:3696:ASP:OD2	1:B:3773:ARG:NH2	2.45	0.50
1:B:4189:ARG:HB3	1:B:5031:GLN:NE2	2.27	0.50
1:D:276:TRP:O	1:D:328:LYS:NZ	2.44	0.50
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.94	0.50
1:D:2294:ASP:OD1	1:D:2297:LYS:NZ	2.43	0.50
1:D:3410:PRO:HD3	1:D:3509:LEU:HD13	1.92	0.50
1:D:3607:GLU:O	1:D:3611:HIS:ND1	2.44	0.50
1:D:4189:ARG:HB3	1:D:5031:GLN:NE2	2.27	0.50
1:C:2159:LEU:HD21	1:C:2203:MET:HE2	1.92	0.50
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.45	0.50
1:C:2891:LYS:O	1:C:2895:GLU:HB3	2.10	0.50
1:C:2998:PHE:HA	1:C:3002:LEU:HD23	1.94	0.50
1:C:3081:MET:HA	1:C:3089:LYS:HE3	1.94	0.50
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.47	0.50
1:A:613:ALA:HB2	1:A:1676:LEU:HD12	1.94	0.50
1:A:1785:ALA:H	2:E:55:VAL:HA	1.76	0.50
1:A:3103:ILE:HG21	1:A:3168:THR:HG23	1.92	0.50
1:A:3532:LEU:HD21	1:A:3553:LEU:HD22	1.94	0.50
1:A:4843:LEU:HD13	1:D:4823:LEU:HD13	1.94	0.50
1:B:240:ASP:O	1:B:243:ARG:HG2	2.11	0.50
1:B:2159:LEU:HD21	1:B:2203:MET:HE2	1.92	0.50
1:B:2265:LEU:HB2	1:B:2330:ARG:HD2	1.94	0.50
1:B:3081:MET:HA	1:B:3089:LYS:HE3	1.94	0.50
1:B:3206:LEU:HD12	1:B:3280:TYR:CZ	2.46	0.50
1:D:1122:TYR:HE1	1:D:1133:HIS:CE1	2.29	0.50
1:D:1727:ARG:HB2	1:D:1775:HIS:HE1	1.77	0.50
1:D:3036:LYS:HD2	1:D:3076:ASP:H	1.76	0.50
1:D:3141:THR:CG2	1:D:3145:GLN:HE22	2.24	0.50
1:D:3667:HIS:CE1	1:D:3669:PHE:HB3	2.46	0.50
1:D:3696:ASP:OD2	1:D:3773:ARG:NH2	2.44	0.50
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.94	0.50
1:C:2637:ALA:C	1:C:2640:PRO:HD2	2.36	0.50
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.28	0.50
1:A:22:LEU:HD23	1:A:22:LEU:H	1.77	0.50
1:A:1727:ARG:HB2	1:A:1775:HIS:HE1	1.77	0.50
1:A:2355:ARG:HE	1:A:2358:ILE:HD11	1.76	0.50
1:A:3410:PRO:HD3	1:A:3509:LEU:HD13	1.92	0.50
1:A:3715:LYS:HD3	1:A:3716:LEU:O	2.11	0.50
2:F:55:VAL:HG12	2:F:56:ILE:N	2.27	0.50
1:B:265:LEU:HD12	1:B:279:PRO:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.45	0.50
1:B:2447:LYS:HZ3	1:B:2449:GLU:HB3	1.76	0.50
1:B:2694:GLU:OE2	1:B:2697:ARG:NE	2.40	0.50
1:D:1651:LEU:O	1:D:1654:SER:OG	2.25	0.50
1:D:2265:LEU:HB2	1:D:2330:ARG:HD2	1.94	0.50
1:D:2367:ALA:HB3	1:D:2426:TYR:CE1	2.47	0.50
1:D:3103:ILE:HG21	1:D:3168:THR:HG23	1.92	0.50
1:C:70:GLU:OE2	1:C:110:ARG:NE	2.45	0.50
1:C:265:LEU:HD12	1:C:279:PRO:HB2	1.94	0.50
1:C:468:LEU:HB3	1:C:472:ARG:NH1	2.27	0.50
1:C:1470:ARG:NH2	1:C:1471:ALA:O	2.35	0.50
1:C:2265:LEU:HB2	1:C:2330:ARG:HD2	1.94	0.50
1:C:3696:ASP:OD2	1:C:3773:ARG:NH2	2.45	0.50
1:C:3715:LYS:HD3	1:C:3716:LEU:O	2.11	0.50
1:C:3990:VAL:HA	1:C:3993:LEU:HD12	1.94	0.50
1:C:4040:ILE:HG22	1:C:4044:MET:HE2	1.93	0.50
1:A:257:ARG:O	1:A:284:HIS:NE2	2.29	0.50
1:A:1743[B]:ARG:HH22	1:A:1967:ASP:CG	2.19	0.50
1:A:2763:HIS:HB2	1:A:2802:LYS:NZ	2.26	0.50
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.44	0.50
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.93	0.50
1:D:835:ARG:HG3	1:D:838:HIS:NE2	2.25	0.50
1:D:1271:ARG:HH22	1:D:1560:ASN:HA	1.77	0.50
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.12	0.50
1:D:2189:LYS:HZ3	1:D:2192:TYR:HB2	1.77	0.50
1:D:2875:ALA:HB2	1:D:2927:LEU:HD12	1.94	0.50
1:D:3546:ASP:O	1:D:3550:ARG:HG2	2.11	0.50
1:D:3695:PRO:HB3	1:D:3699:HIS:HD2	1.76	0.50
1:D:3734:HIS:CD2	1:D:3736:GLU:H	2.27	0.50
1:D:3842:LEU:HB2	1:D:3929:SER:CB	2.40	0.50
1:C:1122:TYR:HE1	1:C:1133:HIS:CE1	2.29	0.50
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.12	0.50
1:C:2469:ILE:HD13	1:C:2502:MET:HE3	1.93	0.50
1:C:3103:ILE:HG21	1:C:3168:THR:HG23	1.92	0.50
1:C:3530:GLN:O	1:C:3534:MET:HE3	2.12	0.50
1:C:3667:HIS:CE1	1:C:3669:PHE:HB3	2.46	0.50
1:C:3842:LEU:HB2	1:C:3929:SER:CB	2.40	0.50
1:A:3498:ARG:HD3	1:A:3501:ASP:HB2	1.92	0.50
1:B:22:LEU:HD23	1:B:22:LEU:H	1.77	0.50
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.47	0.50
1:B:2998:PHE:HA	1:B:3002:LEU:HD23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3532:LEU:HD21	1:B:3553:LEU:HD22	1.94	0.50
1:D:265:LEU:HD12	1:D:279:PRO:HB2	1.94	0.50
1:D:1854:PHE:HD2	1:D:1858:ASP:HB3	1.76	0.50
1:D:2633:LEU:HB2	1:D:2689:LYS:HE2	1.92	0.50
1:D:3283:ARG:HH12	1:D:3287:ARG:HH22	1.60	0.50
1:C:240:ASP:O	1:C:243:ARG:HG2	2.11	0.50
1:C:1582:SER:OG	1:C:1583:GLU:OE1	2.29	0.50
1:C:1727:ARG:HB2	1:C:1775:HIS:HE1	1.77	0.50
1:C:1977:TYR:O	1:C:1981:MET:HG3	2.11	0.50
1:C:2454:ARG:HE	1:C:2458:ARG:NE	2.10	0.50
1:C:2633:LEU:HB2	1:C:2689:LYS:HE2	1.92	0.50
1:C:3103:ILE:HG12	1:C:3168:THR:HG23	1.93	0.50
1:A:265:LEU:HD12	1:A:279:PRO:HB2	1.94	0.50
1:A:468:LEU:HB3	1:A:472:ARG:NH1	2.27	0.50
1:A:1743[A]:ARG:HH22	1:A:1967:ASP:CG	2.19	0.50
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.47	0.50
1:A:3103:ILE:HG12	1:A:3168:THR:HG23	1.93	0.50
1:A:4683:PHE:CZ	1:A:5017:ARG:HG3	2.46	0.50
2:H:55:VAL:HG12	2:H:56:ILE:N	2.27	0.50
1:B:131:LEU:O	1:B:178:ARG:NE	2.34	0.50
1:B:276:TRP:O	1:B:328:LYS:NZ	2.44	0.50
1:B:2540:THR:O	1:B:2543:THR:OG1	2.27	0.50
1:B:2637:ALA:C	1:B:2640:PRO:HD2	2.36	0.50
1:B:2788:HIS:CG	1:B:2789:PRO:HD2	2.47	0.50
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	1.93	0.50
1:D:42:PHE:HD1	1:D:447:ASP:HB3	1.77	0.50
1:D:206:CYS:HB2	1:D:271:GLY:HA3	1.94	0.50
1:D:2626:LEU:O	1:D:2630:VAL:N	2.42	0.50
1:D:3037:GLU:HG3	1:D:3080:VAL:HG22	1.92	0.50
1:D:3228:ALA:HA	1:D:3232:LEU:HD23	1.94	0.50
1:C:231:LEU:HB2	1:C:247:TYR:CE1	2.47	0.50
1:C:276:TRP:O	1:C:328:LYS:NZ	2.44	0.50
1:C:1237:TRP:CE3	1:C:1605:TRP:HB3	2.47	0.50
1:C:2207:VAL:HG12	1:C:2211:MET:HE3	1.93	0.50
1:C:2316:LYS:NZ	1:C:2412:GLU:OE2	2.43	0.50
1:C:2520:HIS:O	1:C:2524:VAL:HG22	2.12	0.50
1:C:2763:HIS:HB2	1:C:2802:LYS:NZ	2.26	0.50
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.93	0.50
1:C:4865:LYS:HG3	1:C:4875:LYS:HE2	1.94	0.50
1:A:978:THR:O	1:A:982:THR:HG23	2.12	0.49
1:A:1582:SER:OG	1:A:1583:GLU:OE1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1854:PHE:HD2	1:A:1858:ASP:HB3	1.76	0.49
1:A:2648:TYR:CD2	1:A:2706:ILE:HG12	2.47	0.49
1:A:2875:ALA:HB2	1:A:2927:LEU:HD12	1.94	0.49
1:A:3530:GLN:O	1:A:3534:MET:HE3	2.12	0.49
1:A:3758:MET:HA	1:A:3758:MET:HE3	1.94	0.49
2:E:55:VAL:HG12	2:E:56:ILE:N	2.27	0.49
2:G:55:VAL:HG12	2:G:56:ILE:N	2.27	0.49
1:B:613:ALA:HB2	1:B:1676:LEU:HD12	1.94	0.49
1:B:716:PHE:CE1	1:B:764:VAL:HG11	2.46	0.49
1:B:978:THR:O	1:B:982:THR:HG23	2.12	0.49
1:B:1651:LEU:O	1:B:1654:SER:OG	2.25	0.49
1:B:1808:ARG:HD2	1:B:1854:PHE:HA	1.94	0.49
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.12	0.49
1:B:2520:HIS:O	1:B:2524:VAL:HG22	2.12	0.49
1:B:2648:TYR:CD2	1:B:2706:ILE:HG12	2.47	0.49
1:B:2792:ARG:O	1:B:2855:TYR:OH	2.28	0.49
1:B:2875:ALA:HB2	1:B:2927:LEU:HD12	1.94	0.49
1:B:3410:PRO:HD3	1:B:3509:LEU:HD13	1.92	0.49
1:B:3734:HIS:CD2	1:B:3736:GLU:H	2.27	0.49
1:D:22:LEU:HD23	1:D:22:LEU:H	1.77	0.49
1:D:240:ASP:O	1:D:243:ARG:HG2	2.11	0.49
1:D:418:LEU:HA	1:D:421:PHE:CZ	2.47	0.49
1:D:1023:PRO:O	1:D:1027:LEU:N	2.44	0.49
1:D:1808:ARG:HD2	1:D:1854:PHE:HA	1.94	0.49
1:D:2998:PHE:HA	1:D:3002:LEU:HD23	1.94	0.49
1:D:3078:ARG:NH1	1:D:3152:PHE:HD1	2.09	0.49
1:C:3228:ALA:HA	1:C:3232:LEU:HD23	1.94	0.49
1:A:1509:ILE:HD12	1:A:1509:ILE:H	1.77	0.49
1:A:2189:LYS:HZ3	1:A:2192:TYR:HB2	1.78	0.49
1:B:42:PHE:HD1	1:B:447:ASP:HB3	1.77	0.49
1:B:231:LEU:HB2	1:B:247:TYR:CE1	2.47	0.49
1:B:2316:LYS:NZ	1:B:2412:GLU:OE2	2.43	0.49
1:B:2967:MET:HE1	1:B:3046:LEU:HG	1.94	0.49
1:B:3103:ILE:HG12	1:B:3168:THR:HG23	1.93	0.49
1:B:4967:TYR:OH	1:B:5033:GLU:OE2	2.21	0.49
1:D:360:ALA:HB2	1:D:377:ILE:HG23	1.94	0.49
1:D:1207:ASP:O	1:D:1210:SER:OG	2.30	0.49
1:D:2316:LYS:NZ	1:D:2412:GLU:OE2	2.43	0.49
1:D:2454:ARG:HE	1:D:2458:ARG:NE	2.10	0.49
1:D:3103:ILE:HG12	1:D:3168:THR:HG23	1.93	0.49
1:D:3802:ILE:HD12	1:D:3886:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:ALA:HB2	1:C:377:ILE:HG23	1.94	0.49
1:C:2215:LEU:O	1:C:2219:GLU:HB3	2.12	0.49
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.94	0.49
1:A:70:GLU:OE2	1:A:110:ARG:NE	2.45	0.49
1:A:1089:TYR:HB3	1:A:1225:PRO:HA	1.95	0.49
1:A:1743[B]:ARG:NH2	1:A:1967:ASP:OD2	2.32	0.49
1:A:1762:LEU:O	1:A:1765:VAL:HG12	2.13	0.49
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.12	0.49
1:A:4865:LYS:HG3	1:A:4875:LYS:HE2	1.94	0.49
1:B:1163:THR:HA	1:B:1168:VAL:HA	1.94	0.49
1:B:2170:MET:SD	1:B:2171:GLY:N	2.85	0.49
1:B:3530:GLN:O	1:B:3534:MET:HE3	2.12	0.49
1:D:978:THR:O	1:D:982:THR:HG23	2.12	0.49
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.45	0.49
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.12	0.49
1:C:2648:TYR:CD2	1:C:2706:ILE:HG12	2.47	0.49
1:C:3514:LEU:HA	1:C:3517:MET:HG2	1.94	0.49
1:A:42:PHE:HD1	1:A:447:ASP:HB3	1.77	0.49
1:A:454:PRO:HD3	1:A:531:ARG:NH2	2.27	0.49
1:A:721:LEU:HD11	1:A:768:PHE:HE1	1.76	0.49
1:A:972:LEU:HB3	1:A:1044:ARG:HG2	1.94	0.49
1:A:2865:VAL:HB	1:A:2928:LYS:HD2	1.94	0.49
1:A:3936:TYR:N	1:B:76:ARG:HH12	2.11	0.49
1:B:206:CYS:HB2	1:B:271:GLY:HA3	1.94	0.49
1:B:1582:SER:OG	1:B:1583:GLU:OE1	2.29	0.49
1:B:4232:GLU:OE1	1:B:5019:TRP:NE1	2.42	0.49
1:B:4865:LYS:HG3	1:B:4875:LYS:HE2	1.94	0.49
1:D:454:PRO:HD3	1:D:531:ARG:NH2	2.28	0.49
1:D:972:LEU:HB3	1:D:1044:ARG:HG2	1.95	0.49
1:D:1089:TYR:HB3	1:D:1225:PRO:HA	1.94	0.49
1:D:1509:ILE:H	1:D:1509:ILE:HD12	1.77	0.49
1:D:2755:ILE:HD11	1:D:2813:LEU:HD23	1.92	0.49
1:D:3081:MET:HA	1:D:3089:LYS:HE3	1.94	0.49
1:D:3868:ARG:HH22	1:D:3870:ASN:HB3	1.77	0.49
1:D:4569:LEU:HD11	1:D:4646:LEU:HD22	1.92	0.49
1:D:4865:LYS:HG3	1:D:4875:LYS:HE2	1.94	0.49
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.47	0.49
1:C:719:LEU:HA	1:C:735:GLN:HE21	1.77	0.49
1:C:721:LEU:HD11	1:C:768:PHE:HE1	1.76	0.49
1:C:972:LEU:HB3	1:C:1044:ARG:HG2	1.95	0.49
1:C:2875:ALA:HB2	1:C:2927:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3951:PHE:O	1:C:3955:MET:HG3	2.13	0.49
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.37	0.49
1:A:1271:ARG:HH22	1:A:1560:ASN:HA	1.77	0.49
1:A:3283:ARG:HH12	1:A:3287:ARG:HH22	1.60	0.49
1:A:3695:PRO:HB3	1:A:3699:HIS:HD2	1.76	0.49
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.94	0.49
1:B:815:VAL:O	1:B:1007:TYR:OH	2.27	0.49
1:B:1089:TYR:HB3	1:B:1225:PRO:HA	1.94	0.49
1:B:2207:VAL:HG12	1:B:2211:MET:HE3	1.93	0.49
1:B:2454:ARG:HE	1:B:2458:ARG:NE	2.10	0.49
1:B:3514:LEU:HA	1:B:3517:MET:HG2	1.94	0.49
1:B:3622:LYS:HB2	1:B:3625:SER:OG	2.13	0.49
1:B:3951:PHE:O	1:B:3955:MET:HG3	2.13	0.49
1:B:4816:ILE:HD11	1:C:4846:VAL:HG21	1.95	0.49
1:D:836:GLY:HA3	1:D:1201:HIS:CE1	2.48	0.49
1:D:915:GLU:HA	1:D:918:ARG:HB2	1.95	0.49
1:D:1237:TRP:CE3	1:D:1605:TRP:HB3	2.47	0.49
1:D:1743[B]:ARG:HH22	1:D:1967:ASP:CG	2.19	0.49
1:D:2170:MET:SD	1:D:2171:GLY:N	2.85	0.49
1:D:2207:VAL:O	1:D:2211:MET:HG3	2.13	0.49
1:D:2431:ASP:OD1	1:D:2435:ARG:NE	2.39	0.49
1:D:2469:ILE:HD13	1:D:2502:MET:HE3	1.93	0.49
1:C:978:THR:O	1:C:982:THR:HG23	2.12	0.49
1:C:1509:ILE:H	1:C:1509:ILE:HD12	1.77	0.49
1:A:836:GLY:HA3	1:A:1201:HIS:CE1	2.48	0.49
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.94	0.49
1:A:2170:MET:SD	1:A:2171:GLY:N	2.85	0.49
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.45	0.49
1:A:3141:THR:CG2	1:A:3145:GLN:HE22	2.24	0.49
1:A:3951:PHE:O	1:A:3955:MET:HG3	2.13	0.49
1:A:4232:GLU:OE1	1:A:5019:TRP:NE1	2.42	0.49
2:G:55:VAL:HG12	2:G:56:ILE:H	1.78	0.49
1:B:468:LEU:HB3	1:B:472:ARG:NH1	2.27	0.49
1:B:574:VAL:HA	1:B:577:ILE:HG12	1.95	0.49
1:B:972:LEU:HB3	1:B:1044:ARG:HG2	1.95	0.49
1:B:1509:ILE:H	1:B:1509:ILE:HD12	1.77	0.49
1:B:1691:GLN:OE1	1:B:1691:GLN:N	2.43	0.49
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.12	0.49
1:B:2215:LEU:O	1:B:2219:GLU:HB3	2.12	0.49
1:B:3349:ALA:HB3	1:B:3415:TYR:CE1	2.48	0.49
1:B:3445:TRP:HD1	1:B:3451:PHE:CD2	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3695:PRO:HB3	1:B:3699:HIS:HD2	1.76	0.49
1:D:468:LEU:HB3	1:D:472:ARG:NH1	2.27	0.49
1:D:574:VAL:O	1:D:578:ILE:HG13	2.12	0.49
1:D:1601:MET:CE	1:D:1602:PRO:HD2	2.39	0.49
1:D:1743[A]:ARG:HH22	1:D:1967:ASP:CG	2.19	0.49
1:D:2299:VAL:HG11	1:D:2356:LEU:HD13	1.95	0.49
1:D:2788:HIS:CG	1:D:2789:PRO:HD2	2.46	0.49
1:D:3248:ARG:NE	1:D:3248:ARG:HA	2.28	0.49
1:D:3532:LEU:HD21	1:D:3553:LEU:HD22	1.94	0.49
1:D:3990:VAL:HA	1:D:3993:LEU:HD12	1.94	0.49
1:D:4639:MET:HA	1:D:4642:ALA:HB3	1.95	0.49
1:C:22:LEU:HD23	1:C:22:LEU:H	1.77	0.49
1:C:280:LEU:HD21	1:C:316:PHE:HB2	1.95	0.49
1:C:915:GLU:HA	1:C:918:ARG:HB2	1.95	0.49
1:C:2088:GLU:OE1	1:C:2089:LYS:N	2.46	0.49
1:C:2170:MET:SD	1:C:2171:GLY:N	2.85	0.49
1:C:2439:GLU:O	1:C:2443:ILE:HG12	2.12	0.49
1:C:3062:PRO:HA	1:C:3065:VAL:HG22	1.93	0.49
1:C:3248:ARG:HA	1:C:3248:ARG:NE	2.28	0.49
1:C:3280:TYR:O	1:C:3284:TRP:HD1	1.96	0.49
1:C:3758:MET:HA	1:C:3758:MET:HE3	1.94	0.49
1:C:4232:GLU:OE1	1:C:5019:TRP:NE1	2.42	0.49
1:A:240:ASP:O	1:A:243:ARG:HG2	2.11	0.49
1:A:1992:ALA:HB1	1:A:1996:ARG:HH22	1.78	0.49
1:A:2215:LEU:O	1:A:2219:GLU:HB3	2.12	0.49
1:A:4648:LEU:HD12	1:A:4803:HIS:HE1	1.78	0.49
1:B:719:LEU:HA	1:B:735:GLN:HE21	1.77	0.49
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.94	0.49
1:B:2490:MET:H	1:B:2490:MET:HE2	1.76	0.49
1:B:2789:PRO:O	1:B:2792:ARG:NE	2.42	0.49
1:B:4892:ARG:HH12	1:C:4898:GLY:CA	2.25	0.49
1:D:565:TYR:CZ	1:D:569:ILE:HD11	2.48	0.49
1:D:2439:GLU:O	1:D:2443:ILE:HG12	2.12	0.49
1:D:2875:ALA:HB3	1:D:2920:ARG:HH22	1.76	0.49
1:D:3758:MET:HA	1:D:3758:MET:HE3	1.95	0.49
1:C:13:PHE:HE1	1:C:164:ARG:HG2	1.78	0.49
1:C:836:GLY:HA3	1:C:1201:HIS:CE1	2.48	0.49
1:A:574:VAL:HA	1:A:577:ILE:HG12	1.95	0.49
1:A:2490:MET:H	1:A:2490:MET:HE2	1.76	0.49
1:A:2998:PHE:HA	1:A:3002:LEU:HD23	1.94	0.49
1:A:3263:TYR:HD1	1:A:3270:ILE:HD12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4874:MET:HA	1:A:4874:MET:HE3	1.94	0.49
1:B:16:THR:OG1	1:B:99:ARG:N	2.41	0.49
1:B:280:LEU:HD21	1:B:316:PHE:HB2	1.95	0.49
1:B:793:LEU:HB3	1:B:812:HIS:HB3	1.95	0.49
1:B:836:GLY:HA3	1:B:1201:HIS:CE1	2.48	0.49
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.12	0.49
1:B:2207:VAL:O	1:B:2211:MET:HG3	2.13	0.49
1:D:2135:LEU:HD22	1:D:3662:ILE:HG22	1.95	0.49
1:D:2215:LEU:O	1:D:2219:GLU:HB3	2.12	0.49
1:D:2520:HIS:O	1:D:2524:VAL:HG22	2.12	0.49
1:D:2612[A]:ARG:HH11	1:D:2612[A]:ARG:CG	2.26	0.49
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.93	0.49
1:C:1207:ASP:O	1:C:1210:SER:OG	2.30	0.49
1:C:1808:ARG:HD2	1:C:1854:PHE:HA	1.94	0.49
1:C:2239:PHE:HD2	1:C:2250:MET:HE3	1.78	0.49
1:C:2676:ARG:HB2	1:C:2714:TYR:HH	1.76	0.49
1:C:2865:VAL:HB	1:C:2928:LYS:HD2	1.94	0.49
1:C:3445:TRP:HD1	1:C:3451:PHE:CD2	2.31	0.49
1:A:1237:TRP:CE3	1:A:1605:TRP:HB3	2.47	0.49
1:A:1252:HIS:CE1	1:A:1254:HIS:HB2	2.48	0.49
1:A:1297:PHE:HE1	1:A:1548:LEU:HD12	1.78	0.49
1:A:2088:GLU:OE1	1:A:2089:LYS:N	2.46	0.49
1:A:2210:VAL:HA	1:A:2213:ASN:HD22	1.77	0.49
1:A:2234:ARG:O	1:A:2238:TYR:HB2	2.12	0.49
1:A:2439:GLU:O	1:A:2443:ILE:HG12	2.12	0.49
1:A:2712:PRO:HB3	1:A:2956:ALA:HB2	1.95	0.49
1:A:2948:THR:HG22	1:A:2952:GLU:HG2	1.95	0.49
1:A:3990:VAL:HA	1:A:3993:LEU:HD12	1.94	0.49
2:G:42:ARG:HH21	1:C:1780:PRO:HB2	1.78	0.49
2:F:49:MET:N	2:F:54:GLU:OE2	2.45	0.49
1:B:13:PHE:HE1	1:B:164:ARG:HG2	1.78	0.49
1:B:70:GLU:OE2	1:B:110:ARG:NE	2.45	0.49
1:B:360:ALA:HB2	1:B:377:ILE:HG23	1.94	0.49
1:B:1079:LYS:HG2	1:B:1655:GLU:CD	2.38	0.49
1:B:1207:ASP:O	1:B:1210:SER:OG	2.30	0.49
1:B:1748:PHE:HE1	1:B:1760:HIS:HA	1.78	0.49
1:B:1992:ALA:HB1	1:B:1996:ARG:HH22	1.78	0.49
1:B:2712:PRO:HB3	1:B:2956:ALA:HB2	1.95	0.49
1:B:2963:LEU:O	1:B:2967:MET:HG2	2.13	0.49
1:D:34:LYS:NZ	1:D:53:SER:HA	2.28	0.49
1:D:574:VAL:HA	1:D:577:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2210:VAL:HA	1:D:2213:ASN:HD22	1.77	0.49
1:D:2349:ASN:HA	1:D:2352:VAL:HG12	1.95	0.49
1:D:2648:TYR:CD2	1:D:2706:ILE:HG12	2.47	0.49
1:D:2712:PRO:HB3	1:D:2956:ALA:HB2	1.95	0.49
1:D:2865:VAL:HB	1:D:2928:LYS:HD2	1.94	0.49
1:D:3157:ILE:HD12	1:D:3202:PRO:HD3	1.95	0.49
1:D:3445:TRP:HD1	1:D:3451:PHE:CD2	2.31	0.49
1:C:574:VAL:O	1:C:578:ILE:HG13	2.12	0.49
1:C:1748:PHE:HE1	1:C:1760:HIS:HA	1.78	0.49
1:C:1762:LEU:O	1:C:1765:VAL:HG12	2.13	0.49
1:C:2349:ASN:HA	1:C:2352:VAL:HG12	1.95	0.49
1:C:2612[A]:ARG:HH11	1:C:2612[A]:ARG:CG	2.26	0.49
1:C:2971:GLN:HE21	1:C:3049:LEU:HD11	1.78	0.49
1:C:3191:GLY:HA2	1:C:3272:ILE:HG23	1.95	0.49
1:A:574:VAL:O	1:A:578:ILE:HG13	2.12	0.49
1:A:1808:ARG:HD2	1:A:1854:PHE:HA	1.94	0.49
1:A:3281:LEU:O	1:A:3307:VAL:HG11	2.13	0.49
1:B:1727:ARG:HB2	1:B:1775:HIS:HE1	1.77	0.49
1:B:3802:ILE:HD12	1:B:3886:ARG:HG3	1.94	0.49
1:B:4569:LEU:HD11	1:B:4646:LEU:HD22	1.92	0.49
1:D:13:PHE:HE1	1:D:164:ARG:HG2	1.78	0.49
1:D:721:LEU:HD11	1:D:768:PHE:HE1	1.76	0.49
1:D:1582:SER:OG	1:D:1583:GLU:OE1	2.29	0.49
1:D:2088:GLU:OE1	1:D:2089:LYS:N	2.46	0.49
1:D:2963:LEU:O	1:D:2967:MET:HG2	2.13	0.49
1:D:3191:GLY:HA2	1:D:3272:ILE:HG23	1.94	0.49
1:D:3280:TYR:O	1:D:3284:TRP:HD1	1.96	0.49
1:D:3715:LYS:HD3	1:D:3716:LEU:O	2.11	0.49
1:D:3951:PHE:O	1:D:3955:MET:HG3	2.13	0.49
1:D:4874:MET:HA	1:D:4874:MET:HE3	1.94	0.49
1:C:42:PHE:HD1	1:C:447:ASP:HB3	1.77	0.49
1:C:793:LEU:HB3	1:C:812:HIS:HB3	1.95	0.49
1:C:1271:ARG:HH22	1:C:1560:ASN:HA	1.77	0.49
1:C:2540:THR:O	1:C:2543:THR:OG1	2.27	0.49
1:C:2712:PRO:HB3	1:C:2956:ALA:HB2	1.95	0.49
1:C:3532:LEU:HD21	1:C:3553:LEU:HD22	1.94	0.49
1:C:4639:MET:HA	1:C:4642:ALA:HB3	1.95	0.49
1:C:4998:LYS:HB3	1:C:5003:HIS:HE1	1.78	0.49
1:A:2243:SER:HB3	1:A:2246:ASN:CG	2.38	0.48
1:A:2918:ARG:O	1:A:2921:GLU:HG3	2.13	0.48
1:A:3445:TRP:HD1	1:A:3451:PHE:CD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ARG:O	1:B:284:HIS:NE2	2.29	0.48
1:B:1762:LEU:O	1:B:1765:VAL:HG12	2.13	0.48
1:B:2239:PHE:HD2	1:B:2250:MET:HE3	1.78	0.48
1:B:2612[A]:ARG:HH11	1:B:2612[A]:ARG:CG	2.26	0.48
1:B:2772:GLN:O	1:C:1506:GLN:NE2	2.42	0.48
1:B:3114:LYS:HD2	1:B:3116:SER:N	2.25	0.48
1:B:3248:ARG:NE	1:B:3248:ARG:HA	2.28	0.48
1:B:3990:VAL:HA	1:B:3993:LEU:HD12	1.94	0.48
1:B:4904:PRO:HG3	1:B:4913:ARG:HH11	1.78	0.48
1:B:4998:LYS:HB3	1:B:5003:HIS:HE1	1.78	0.48
1:D:797:HIS:CE1	1:D:821:LEU:HD22	2.48	0.48
1:D:1762:LEU:O	1:D:1765:VAL:HG12	2.13	0.48
1:D:2234:ARG:O	1:D:2238:TYR:HB2	2.12	0.48
1:D:2867:LEU:HD22	1:D:2928:LYS:HZ1	1.78	0.48
1:D:2948:THR:HG22	1:D:2952:GLU:HG2	1.95	0.48
1:C:574:VAL:HA	1:C:577:ILE:HG12	1.95	0.48
1:C:1252:HIS:CE1	1:C:1254:HIS:HB2	2.48	0.48
1:C:1992:ALA:HB1	1:C:1996:ARG:HH22	1.78	0.48
1:C:2207:VAL:O	1:C:2211:MET:HG3	2.13	0.48
1:C:2210:VAL:HA	1:C:2213:ASN:HD22	1.77	0.48
1:C:3147:ILE:CD1	1:C:3152:PHE:HB2	2.39	0.48
1:C:4796:MET:HA	1:C:4796:MET:HE2	1.95	0.48
1:A:206:CYS:HB2	1:A:271:GLY:HA3	1.95	0.48
1:A:565:TYR:CZ	1:A:569:ILE:HD11	2.48	0.48
1:A:915:GLU:HA	1:A:918:ARG:HB2	1.95	0.48
1:A:1163:THR:HA	1:A:1168:VAL:HA	1.94	0.48
1:A:1780:PRO:HB2	2:E:42:ARG:HH21	1.78	0.48
1:A:1785:ALA:N	2:E:55:VAL:HA	2.29	0.48
1:A:2612[A]:ARG:HH11	1:A:2612[A]:ARG:CG	2.26	0.48
1:A:2789:PRO:O	1:A:2792:ARG:NE	2.42	0.48
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.14	0.48
1:A:4035:VAL:HG12	1:A:4189:ARG:NH2	2.28	0.48
1:A:4959:PHE:CD2	1:A:4985:LEU:HD21	2.48	0.48
2:G:105:LYS:HG2	2:G:107:GLU:OE1	2.13	0.48
2:F:105:LYS:HG2	2:F:107:GLU:OE1	2.14	0.48
1:B:1252:HIS:CE1	1:B:1254:HIS:HB2	2.48	0.48
1:B:2121:PHE:CZ	1:B:3701:LEU:HB2	2.49	0.48
1:B:2234:ARG:O	1:B:2238:TYR:HB2	2.12	0.48
1:B:2865:VAL:HB	1:B:2928:LYS:HD2	1.94	0.48
1:B:2918:ARG:O	1:B:2921:GLU:HG3	2.13	0.48
1:B:4928:LEU:O	1:B:4932:ILE:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1992:ALA:HB1	1:D:1996:ARG:HH22	1.78	0.48
1:D:2239:PHE:HD2	1:D:2250:MET:HE3	1.78	0.48
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.46	0.48
1:D:3349:ALA:HB3	1:D:3415:TYR:CE1	2.48	0.48
1:D:4998:LYS:HB3	1:D:5003:HIS:HE1	1.78	0.48
1:C:213:TYR:N	1:C:341:TYR:H	2.08	0.48
1:C:1089:TYR:HB3	1:C:1225:PRO:HA	1.94	0.48
1:C:2121:PHE:CZ	1:C:3701:LEU:HB2	2.48	0.48
1:C:4648:LEU:HD12	1:C:4803:HIS:HE1	1.78	0.48
1:C:4661:TYR:OH	1:C:4786:ASP:OD2	2.31	0.48
1:A:360:ALA:HB2	1:A:377:ILE:HG23	1.95	0.48
1:A:688:LEU:HD23	1:A:690:GLU:H	1.79	0.48
1:A:2239:PHE:HD2	1:A:2250:MET:HE3	1.78	0.48
1:A:2359:ARG:NH1	1:B:179:TYR:OH	2.46	0.48
2:E:82:TYR:CE2	2:E:87:HIS:HB2	2.49	0.48
2:G:82:TYR:CE2	2:G:87:HIS:HB2	2.49	0.48
2:F:55:VAL:HG12	2:F:56:ILE:H	1.78	0.48
1:B:3715:LYS:HD3	1:B:3716:LEU:O	2.11	0.48
1:B:4035:VAL:HG12	1:B:4189:ARG:NH2	2.28	0.48
1:B:4648:LEU:HD12	1:B:4803:HIS:HE1	1.78	0.48
1:B:4874:MET:HA	1:B:4874:MET:HE3	1.94	0.48
1:D:1079:LYS:HG2	1:D:1655:GLU:CD	2.38	0.48
1:D:1163:THR:HA	1:D:1168:VAL:HA	1.94	0.48
1:D:2918:ARG:O	1:D:2921:GLU:HG3	2.13	0.48
1:D:3263:TYR:HD1	1:D:3270:ILE:HD12	1.78	0.48
1:D:4648:LEU:HD12	1:D:4803:HIS:HE1	1.78	0.48
1:C:320:LYS:HD2	1:C:356:TRP:CE2	2.48	0.48
1:C:450:GLY:HA2	1:C:453:GLU:OE1	2.14	0.48
1:C:1163:THR:HA	1:C:1168:VAL:HA	1.94	0.48
1:C:2234:ARG:O	1:C:2238:TYR:HB2	2.12	0.48
1:A:13:PHE:HE1	1:A:164:ARG:HG2	1.78	0.48
1:A:719:LEU:HA	1:A:735:GLN:HE21	1.77	0.48
1:A:2207:VAL:O	1:A:2211:MET:HG3	2.13	0.48
1:A:2454:ARG:HE	1:A:2458:ARG:NE	2.10	0.48
1:A:2963:LEU:O	1:A:2967:MET:HG2	2.13	0.48
1:A:3282:PRO:HG3	1:A:3312:LEU:HD11	1.95	0.48
1:A:3670:GLU:HG2	1:A:3728:ILE:HA	1.96	0.48
1:A:4639:MET:HA	1:A:4642:ALA:HB3	1.95	0.48
1:A:4796:MET:HE2	1:A:4796:MET:HA	1.95	0.48
1:B:454:PRO:HD3	1:B:531:ARG:NH2	2.28	0.48
1:B:574:VAL:O	1:B:578:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3758:MET:HE3	1:B:3758:MET:HA	1.95	0.48
1:D:320:LYS:HD2	1:D:356:TRP:CE2	2.48	0.48
1:D:1252:HIS:CE1	1:D:1254:HIS:HB2	2.48	0.48
1:D:1297:PHE:HE1	1:D:1548:LEU:HD12	1.78	0.48
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.12	0.48
1:D:2902:HIS:HD2	1:D:2903:PRO:HD2	1.78	0.48
1:D:3281:LEU:O	1:D:3307:VAL:HG11	2.13	0.48
1:C:454:PRO:HD3	1:C:531:ARG:NH2	2.27	0.48
1:C:2918:ARG:O	1:C:2921:GLU:HG3	2.13	0.48
1:C:3868:ARG:HH22	1:C:3870:ASN:HB3	1.77	0.48
1:A:2761:TYR:HA	1:A:2764:GLU:HB2	1.96	0.48
1:A:3622:LYS:HB2	1:A:3625:SER:OG	2.13	0.48
1:A:4087:LEU:HB2	1:A:4122:MET:HE3	1.96	0.48
2:E:55:VAL:HG12	2:E:56:ILE:H	1.78	0.48
2:H:105:LYS:HG2	2:H:107:GLU:OE1	2.13	0.48
2:G:49:MET:N	2:G:54:GLU:OE2	2.45	0.48
1:B:721:LEU:HD11	1:B:768:PHE:HE1	1.76	0.48
1:B:2088:GLU:OE1	1:B:2089:LYS:N	2.46	0.48
1:B:2862:LEU:O	1:B:2928:LYS:HG3	2.13	0.48
1:B:3050:VAL:HG12	1:B:3131:TYR:CE1	2.49	0.48
1:B:3191:GLY:HA2	1:B:3272:ILE:HG23	1.95	0.48
1:B:3280:TYR:O	1:B:3284:TRP:HD1	1.96	0.48
1:B:3281:LEU:O	1:B:3307:VAL:HG11	2.13	0.48
1:B:3629:ARG:O	1:B:3633:VAL:HG23	2.14	0.48
1:B:3670:GLU:HG2	1:B:3728:ILE:HA	1.96	0.48
1:D:719:LEU:HA	1:D:735:GLN:HE21	1.77	0.48
1:D:1005:TRP:HH2	1:D:1013:ILE:HD13	1.78	0.48
1:D:2967:MET:HE1	1:D:3046:LEU:HG	1.94	0.48
1:D:3354:LEU:HD12	1:D:3415:TYR:CD2	2.45	0.48
1:D:3514:LEU:HA	1:D:3517:MET:HG2	1.94	0.48
1:D:3531:ASP:O	1:D:3534:MET:HG2	2.13	0.48
1:C:565:TYR:CZ	1:C:569:ILE:HD11	2.48	0.48
1:C:1743[B]:ARG:HH22	1:C:1967:ASP:CG	2.19	0.48
1:C:2761:TYR:HA	1:C:2764:GLU:HB2	1.96	0.48
1:C:3283:ARG:HH12	1:C:3287:ARG:HH22	1.60	0.48
1:C:3349:ALA:HB3	1:C:3415:TYR:CE1	2.48	0.48
1:C:3525:CYS:SG	1:C:3599:VAL:HG21	2.54	0.48
1:A:1095:VAL:HB	1:A:1199:VAL:HB	1.96	0.48
1:A:1446:SER:HA	1:A:1496:TRP:HE1	1.79	0.48
1:A:2626:LEU:O	1:A:2630:VAL:N	2.42	0.48
1:A:3157:ILE:HD12	1:A:3202:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3248:ARG:NE	1:A:3248:ARG:HA	2.28	0.48
1:B:355:LEU:HD22	1:B:380:GLN:HB3	1.96	0.48
1:B:565:TYR:CZ	1:B:569:ILE:HD11	2.48	0.48
1:B:915:GLU:HA	1:B:918:ARG:HB2	1.95	0.48
1:B:2198:MET:HA	1:B:2201:LEU:HD12	1.95	0.48
1:B:2579:VAL:O	1:B:2583:LEU:HG	2.14	0.48
1:B:2676:ARG:HB2	1:B:2714:TYR:HH	1.78	0.48
1:B:2948:THR:HG22	1:B:2949:SER:N	2.29	0.48
1:B:3183:VAL:HA	1:B:3186:LEU:HB2	1.96	0.48
1:B:3283:ARG:HH12	1:B:3287:ARG:HH22	1.60	0.48
1:B:3531:ASP:O	1:B:3534:MET:HG2	2.13	0.48
1:B:3829:PHE:HB3	1:B:3913:ILE:HD11	1.96	0.48
1:B:3868:ARG:HH22	1:B:3870:ASN:HB3	1.77	0.48
1:B:3957:VAL:O	1:B:3961:VAL:HG23	2.14	0.48
1:B:4796:MET:HE2	1:B:4796:MET:HA	1.95	0.48
1:D:450:GLY:HA2	1:D:453:GLU:OE1	2.14	0.48
1:D:1291:LEU:HD13	1:D:1595:LEU:HD21	1.95	0.48
1:D:3573:MET:O	1:D:3577:ARG:HG2	2.14	0.48
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.14	0.48
1:D:4959:PHE:CD2	1:D:4985:LEU:HD21	2.48	0.48
1:C:1743[A]:ARG:HH22	1:C:1967:ASP:CG	2.19	0.48
1:C:2909:ASP:N	1:C:2909:ASP:OD1	2.46	0.48
1:C:2967:MET:HE1	1:C:3046:LEU:HG	1.94	0.48
1:C:3531:ASP:O	1:C:3534:MET:HG2	2.13	0.48
1:A:989:ALA:CB	1:A:1039:LEU:HD11	2.44	0.48
1:A:1631:GLN:OE1	1:A:1631:GLN:N	2.47	0.48
1:A:2913:ALA:HA	1:A:2916:LYS:HD2	1.96	0.48
1:A:2967:MET:HE1	1:A:3046:LEU:HG	1.94	0.48
1:A:4085:ARG:HH22	1:A:4122:MET:HE2	1.79	0.48
1:A:4866:SER:OG	1:A:4868:ASP:OD1	2.31	0.48
1:A:4914:VAL:HG13	1:D:4888:TYR:HD1	1.77	0.48
2:F:82:TYR:CE2	2:F:87:HIS:HB2	2.49	0.48
1:B:20:VAL:CG2	1:B:202:MET:HE2	2.44	0.48
1:B:2210:VAL:HA	1:B:2213:ASN:HD22	1.77	0.48
1:B:2243:SER:HB3	1:B:2246:ASN:CG	2.38	0.48
1:B:2299:VAL:HG11	1:B:2356:LEU:HD13	1.95	0.48
1:B:2761:TYR:HA	1:B:2764:GLU:HB2	1.96	0.48
1:B:3525:CYS:SG	1:B:3599:VAL:HG21	2.54	0.48
1:B:4085:ARG:HH22	1:B:4122:MET:HE2	1.79	0.48
1:D:793:LEU:HB3	1:D:812:HIS:HB3	1.95	0.48
1:D:1087:ARG:HD2	1:D:1222:GLY:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1095:VAL:HB	1:D:1199:VAL:HB	1.96	0.48
1:D:1631:GLN:OE1	1:D:1631:GLN:N	2.47	0.48
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.49	0.48
1:D:2541:PHE:O	1:D:2544:THR:HG22	2.14	0.48
1:D:3376:GLU:OE1	1:D:3380:ARG:NH1	2.47	0.48
1:D:4035:VAL:HG12	1:D:4189:ARG:NH2	2.28	0.48
1:D:4087:LEU:HB2	1:D:4122:MET:HE3	1.96	0.48
1:C:355:LEU:HD22	1:C:380:GLN:HB3	1.96	0.48
1:C:1631:GLN:N	1:C:1631:GLN:OE1	2.47	0.48
1:C:2299:VAL:HG11	1:C:2356:LEU:HD13	1.95	0.48
1:C:3281:LEU:O	1:C:3307:VAL:HG11	2.13	0.48
1:C:4904:PRO:HG3	1:C:4913:ARG:HH11	1.78	0.48
1:A:35:LEU:HG	1:A:51:PRO:HA	1.96	0.48
1:A:1748:PHE:HE1	1:A:1760:HIS:HA	1.78	0.48
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.49	0.48
1:A:2135:LEU:HD21	1:A:3663:LEU:HD23	1.95	0.48
1:A:2183:GLY:HA2	1:A:2234:ARG:HH22	1.79	0.48
1:A:2520:HIS:O	1:A:2524:VAL:HG22	2.12	0.48
1:A:2971:GLN:HE21	1:A:3049:LEU:HD11	1.78	0.48
1:A:3514:LEU:HA	1:A:3517:MET:HG2	1.94	0.48
1:B:320:LYS:HD2	1:B:356:TRP:CE2	2.48	0.48
1:B:450:GLY:HA2	1:B:453:GLU:OE1	2.14	0.48
1:B:797:HIS:CE1	1:B:821:LEU:HD22	2.48	0.48
1:B:2541:PHE:O	1:B:2544:THR:HG22	2.14	0.48
1:B:2948:THR:HG22	1:B:2952:GLU:HG2	1.95	0.48
1:B:3228:ALA:HA	1:B:3232:LEU:HD23	1.94	0.48
1:B:4933:GLN:NE2	1:C:4930:ALA:HB2	2.28	0.48
1:D:1748:PHE:HE1	1:D:1760:HIS:HA	1.78	0.48
1:D:2579:VAL:O	1:D:2583:LEU:HG	2.14	0.48
1:D:3282:PRO:HG3	1:D:3312:LEU:HD11	1.95	0.48
1:D:3829:PHE:HB3	1:D:3913:ILE:HD11	1.96	0.48
1:D:5033:GLU:O	1:D:5037:SER:OG	2.21	0.48
1:C:613:ALA:HB2	1:C:1676:LEU:HD12	1.94	0.48
1:C:688:LEU:HD23	1:C:690:GLU:H	1.79	0.48
1:C:1079:LYS:HG2	1:C:1655:GLU:CD	2.38	0.48
1:C:2198:MET:HA	1:C:2201:LEU:HD12	1.95	0.48
1:C:2541:PHE:O	1:C:2544:THR:HG22	2.14	0.48
1:C:3734:HIS:CD2	1:C:3736:GLU:H	2.27	0.48
1:C:4035:VAL:HG12	1:C:4189:ARG:NH2	2.28	0.48
1:C:4874:MET:HA	1:C:4874:MET:HE3	1.94	0.48
1:A:20:VAL:CG2	1:A:202:MET:HE2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:ARG:HB2	1:A:782:SER:HB2	1.96	0.48
1:A:793:LEU:HB3	1:A:812:HIS:HB3	1.95	0.48
1:A:1079:LYS:HG2	1:A:1655:GLU:CD	2.38	0.48
1:A:1087:ARG:HD2	1:A:1222:GLY:O	2.14	0.48
1:A:2121:PHE:CZ	1:A:3701:LEU:HB2	2.49	0.48
1:A:2862:LEU:O	1:A:2928:LYS:HG3	2.14	0.48
1:A:3228:ALA:HA	1:A:3232:LEU:HD23	1.94	0.48
1:A:3280:TYR:O	1:A:3284:TRP:HD1	1.96	0.48
1:A:3411:LEU:HD23	1:A:3414:ARG:NH2	2.29	0.48
1:A:3629:ARG:O	1:A:3633:VAL:HG23	2.14	0.48
1:A:4805:ASN:HB3	1:A:4808:PHE:CD2	2.49	0.48
2:H:55:VAL:HG12	2:H:56:ILE:H	1.78	0.48
1:B:1095:VAL:HB	1:B:1199:VAL:HB	1.96	0.48
1:B:1237:TRP:CE3	1:B:1605:TRP:HB3	2.47	0.48
1:B:1446:SER:HA	1:B:1496:TRP:HE1	1.79	0.48
1:B:1631:GLN:OE1	1:B:1631:GLN:N	2.47	0.48
1:B:2012:PHE:HB2	1:B:2018:GLU:HA	1.96	0.48
1:B:2913:ALA:HA	1:B:2916:LYS:HD2	1.96	0.48
1:B:3368:ARG:HG2	1:B:3371:LYS:NZ	2.29	0.48
1:B:3411:LEU:HD23	1:B:3414:ARG:NH2	2.29	0.48
1:B:3424:LEU:HD23	1:B:3523:ASN:HD22	1.79	0.48
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.14	0.48
1:B:4959:PHE:CD2	1:B:4985:LEU:HD21	2.48	0.48
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.46	0.48
1:D:2862:LEU:O	1:D:2928:LYS:HG3	2.13	0.48
1:C:206:CYS:HB2	1:C:271:GLY:HA3	1.94	0.48
1:C:4085:ARG:HH22	1:C:4122:MET:HE2	1.79	0.48
1:C:4928:LEU:O	1:C:4932:ILE:HD12	2.13	0.48
1:C:4959:PHE:CD2	1:C:4985:LEU:HD21	2.48	0.48
1:A:450:GLY:HA2	1:A:453:GLU:OE1	2.14	0.48
1:A:797:HIS:CE1	1:A:821:LEU:HD22	2.48	0.48
1:A:2004:GLU:OE1	1:A:2004:GLU:N	2.46	0.48
1:A:2299:VAL:HG11	1:A:2356:LEU:HD13	1.95	0.48
1:A:2540:THR:O	1:A:2543:THR:OG1	2.27	0.48
1:A:2902:HIS:HD2	1:A:2903:PRO:HD2	1.78	0.48
1:A:3525:CYS:SG	1:A:3599:VAL:HG21	2.54	0.48
1:B:683:ARG:HB2	1:B:782:SER:HB2	1.96	0.48
1:B:1470:ARG:NH2	1:B:1471:ALA:O	2.35	0.48
1:B:3376:GLU:OE1	1:B:3380:ARG:NH1	2.47	0.48
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.14	0.48
1:B:4931:ILE:O	1:B:4935:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:VAL:CG2	1:D:202:MET:HE2	2.44	0.48
1:D:175:SER:HA	1:C:2452:ARG:HD3	1.96	0.48
1:D:989:ALA:CB	1:D:1039:LEU:HD11	2.44	0.48
1:D:3050:VAL:HG12	1:D:3131:TYR:CE1	2.49	0.48
1:D:3622:LYS:HB2	1:D:3625:SER:OG	2.13	0.48
1:D:4904:PRO:HG3	1:D:4913:ARG:HH11	1.78	0.48
1:C:1087:ARG:HD2	1:C:1222:GLY:O	2.14	0.48
1:C:2867:LEU:HD22	1:C:2928:LYS:HZ1	1.78	0.48
1:C:3157:ILE:HD12	1:C:3202:PRO:HD3	1.95	0.48
1:C:3168:THR:O	1:C:3172:ILE:HD12	2.14	0.48
1:C:3368:ARG:HG2	1:C:3371:LYS:NZ	2.29	0.48
1:C:3670:GLU:HG2	1:C:3728:ILE:HA	1.96	0.48
1:C:4805:ASN:HB3	1:C:4808:PHE:CD2	2.49	0.48
1:C:4931:ILE:O	1:C:4935:LEU:HG	2.14	0.48
1:A:1100:MET:HE2	1:A:1100:MET:HB2	1.79	0.47
1:A:1465:ASP:HB3	1:A:1468:LYS:HB2	1.96	0.47
1:A:1691:GLN:OE1	1:A:1691:GLN:N	2.43	0.47
1:A:3050:VAL:HG12	1:A:3131:TYR:CE1	2.49	0.47
1:A:3183:VAL:HA	1:A:3186:LEU:HB2	1.96	0.47
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.14	0.47
1:A:4193:ILE:HG12	1:A:5006:GLN:OE1	2.14	0.47
1:B:989:ALA:CB	1:B:1039:LEU:HD11	2.44	0.47
1:B:3343:GLN:OE1	1:B:3414:ARG:NH2	2.47	0.47
1:B:4968:PHE:O	1:B:4974:GLY:HA3	2.14	0.47
1:D:613:ALA:HB2	1:D:1676:LEU:HD12	1.94	0.47
1:D:688:LEU:HD23	1:D:690:GLU:H	1.79	0.47
1:D:2449:GLU:O	1:D:2453:ILE:HG12	2.14	0.47
1:D:2533:ALA:HB1	1:D:2589:LEU:HD21	1.96	0.47
1:D:2761:TYR:HA	1:D:2764:GLU:HB2	1.96	0.47
1:D:3525:CYS:SG	1:D:3599:VAL:HG21	2.54	0.47
1:D:3996:PHE:CD2	1:D:4020:GLN:HG2	2.49	0.47
1:D:4796:MET:HE2	1:D:4796:MET:HA	1.95	0.47
1:C:2948:THR:HG22	1:C:2952:GLU:HG2	1.95	0.47
1:C:2963:LEU:O	1:C:2967:MET:HG2	2.13	0.47
1:C:3376:GLU:OE1	1:C:3380:ARG:NH1	2.47	0.47
1:C:3622:LYS:HB2	1:C:3625:SER:OG	2.13	0.47
1:C:3829:PHE:HB3	1:C:3913:ILE:HD11	1.96	0.47
1:C:4968:PHE:O	1:C:4974:GLY:HA3	2.14	0.47
1:A:2135:LEU:HD22	1:A:3662:ILE:HG22	1.95	0.47
1:A:2349:ASN:HA	1:A:2352:VAL:HG12	1.95	0.47
1:A:3202:PRO:C	1:A:3284:TRP:HH2	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3369:ALA:HA	1:A:3372:VAL:HG22	1.96	0.47
1:A:3465:ASN:OD1	1:A:3467:MET:HB2	2.15	0.47
1:A:3829:PHE:HB3	1:A:3913:ILE:HD11	1.96	0.47
1:B:688:LEU:HD23	1:B:690:GLU:H	1.79	0.47
1:B:2135:LEU:HD22	1:B:3662:ILE:HG22	1.95	0.47
1:B:2153:MET:O	1:B:2157:GLU:HG2	2.15	0.47
1:B:3996:PHE:CD2	1:B:4020:GLN:HG2	2.49	0.47
1:B:4087:LEU:HB2	1:B:4122:MET:HE3	1.96	0.47
1:B:4189:ARG:NH2	1:B:5032:TYR:OH	2.46	0.47
1:B:4197:ILE:HD13	1:B:4990:PHE:CD2	2.49	0.47
1:D:280:LEU:HD21	1:D:316:PHE:HB2	1.95	0.47
1:D:425:PRO:HG3	1:D:506:TYR:CZ	2.49	0.47
1:D:1849:LEU:HB3	1:D:1945:TYR:CE2	2.50	0.47
1:D:3465:ASN:OD1	1:D:3467:MET:HB2	2.14	0.47
1:C:797:HIS:CE1	1:C:821:LEU:HD22	2.48	0.47
1:C:1005:TRP:HH2	1:C:1013:ILE:HD13	1.78	0.47
1:C:1446:SER:HA	1:C:1496:TRP:HE1	1.79	0.47
1:C:2135:LEU:HD22	1:C:3662:ILE:HG22	1.95	0.47
1:C:2182:ILE:HG13	1:C:2234:ARG:NH1	2.30	0.47
1:C:2449:GLU:O	1:C:2453:ILE:HG12	2.14	0.47
1:C:4087:LEU:HB2	1:C:4122:MET:HE3	1.96	0.47
1:C:4197:ILE:HD13	1:C:4990:PHE:CD2	2.49	0.47
1:A:34:LYS:NZ	1:A:53:SER:HA	2.28	0.47
1:A:280:LEU:HD21	1:A:316:PHE:HB2	1.95	0.47
1:A:653:ALA:N	1:A:656:SER:OG	2.48	0.47
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.46	0.47
1:A:2948:THR:HG22	1:A:2949:SER:N	2.29	0.47
1:A:3067:CYS:O	1:A:3070:ILE:HG22	2.14	0.47
1:A:3438:VAL:HG13	1:A:3517:MET:CE	2.45	0.47
1:A:3605:HIS:O	1:A:3609:THR:HG23	2.15	0.47
1:A:4157:ASP:H	1:A:4161:ARG:NH1	2.13	0.47
1:A:4904:PRO:HG3	1:A:4913:ARG:HH11	1.78	0.47
1:B:34:LYS:NZ	1:B:53:SER:HA	2.28	0.47
1:B:1005:TRP:HH2	1:B:1013:ILE:HD13	1.78	0.47
1:B:1291:LEU:HD13	1:B:1595:LEU:HD21	1.95	0.47
1:B:1465:ASP:HB3	1:B:1468:LYS:HB2	1.97	0.47
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.49	0.47
1:B:2952:GLU:HA	1:B:2957:PHE:CG	2.49	0.47
1:B:3695:PRO:HB2	1:B:3700:GLN:HG2	1.97	0.47
1:B:4959:PHE:HD2	1:B:4985:LEU:HD21	1.79	0.47
1:D:1708:ARG:NH1	1:D:1836:PHE:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2198:MET:HA	1:D:2201:LEU:HD12	1.95	0.47
1:D:2243:SER:HB3	1:D:2246:ASN:CG	2.38	0.47
1:D:3168:THR:O	1:D:3172:ILE:HD12	2.14	0.47
1:D:4928:LEU:O	1:D:4932:ILE:HD12	2.14	0.47
1:C:20:VAL:CG2	1:C:202:MET:HE2	2.44	0.47
1:C:34:LYS:NZ	1:C:53:SER:HA	2.28	0.47
1:C:1601:MET:CE	1:C:1602:PRO:HD2	2.39	0.47
1:C:2243:SER:HB3	1:C:2246:ASN:CG	2.38	0.47
1:C:2575:ARG:HG3	1:C:2575:ARG:O	2.14	0.47
1:C:2579:VAL:O	1:C:2583:LEU:HG	2.14	0.47
1:C:2902:HIS:HD2	1:C:2903:PRO:HD2	1.78	0.47
1:C:3527:PRO:HG2	1:C:3572:GLN:HB3	1.96	0.47
1:A:320:LYS:HD2	1:A:356:TRP:CE2	2.48	0.47
1:A:4959:PHE:HD2	1:A:4985:LEU:HD21	1.79	0.47
1:A:4998:LYS:HB3	1:A:5003:HIS:HE1	1.78	0.47
2:H:82:TYR:CE2	2:H:87:HIS:HB2	2.49	0.47
1:B:1271:ARG:HH22	1:B:1560:ASN:HA	1.77	0.47
1:B:2268[B]:GLN:H	1:B:2268[B]:GLN:HG3	1.49	0.47
1:B:2533:ALA:HB1	1:B:2589:LEU:HD21	1.96	0.47
1:B:2971:GLN:HE21	1:B:3049:LEU:HD11	1.78	0.47
1:B:3067:CYS:O	1:B:3070:ILE:HG22	2.15	0.47
1:B:3263:TYR:HD1	1:B:3270:ILE:HD12	1.78	0.47
1:B:4805:ASN:HB3	1:B:4808:PHE:CD2	2.48	0.47
1:D:214:VAL:N	1:D:341:TYR:HB2	2.30	0.47
1:D:1743[B]:ARG:NH2	1:D:1967:ASP:OD2	2.32	0.47
1:D:2177:LEU:O	1:D:2180:GLN:HG3	2.15	0.47
1:D:2971:GLN:HE21	1:D:3049:LEU:HD11	1.78	0.47
1:D:4085:ARG:HH22	1:D:4122:MET:HE2	1.79	0.47
1:D:4197:ILE:HD13	1:D:4990:PHE:CD2	2.50	0.47
1:C:52:THR:HA	1:C:60:PRO:HG3	1.96	0.47
1:C:103:TYR:N	1:C:161:GLU:O	2.45	0.47
1:C:653:ALA:N	1:C:656:SER:OG	2.48	0.47
1:C:1708:ARG:NH1	1:C:1836:PHE:O	2.47	0.47
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.49	0.47
1:C:3282:PRO:HG3	1:C:3312:LEU:HD11	1.95	0.47
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.79	0.47
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.14	0.47
1:C:4189:ARG:NH2	1:C:5032:TYR:OH	2.46	0.47
1:A:425:PRO:HG3	1:A:506:TYR:CZ	2.49	0.47
1:A:437:PRO:HB2	1:A:440:ALA:HB3	1.97	0.47
1:A:3191:GLY:HA2	1:A:3272:ILE:HG23	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3695:PRO:HB2	1:A:3700:GLN:HG2	1.96	0.47
1:A:4968:PHE:O	1:A:4974:GLY:HA3	2.14	0.47
1:B:35:LEU:HG	1:B:51:PRO:HA	1.96	0.47
1:B:1297:PHE:HE1	1:B:1548:LEU:HD12	1.78	0.47
1:B:2517:PHE:CD1	1:B:2520:HIS:HE1	2.33	0.47
1:B:3069:HIS:ND1	1:B:3142:THR:OG1	2.27	0.47
1:B:3141:THR:CG2	1:B:3145:GLN:HE22	2.24	0.47
1:B:3202:PRO:C	1:B:3284:TRP:HH2	2.22	0.47
1:B:3605:HIS:O	1:B:3609:THR:HG23	2.15	0.47
1:B:4639:MET:HA	1:B:4642:ALA:HB3	1.95	0.47
1:D:818:ARG:NH2	1:D:1027:LEU:O	2.22	0.47
1:D:1446:SER:HA	1:D:1496:TRP:HE1	1.79	0.47
1:D:1465:ASP:HB3	1:D:1468:LYS:HB2	1.96	0.47
1:D:2135:LEU:HD21	1:D:3663:LEU:HD23	1.95	0.47
1:D:2575:ARG:HG3	1:D:2575:ARG:O	2.14	0.47
1:D:2952:GLU:HA	1:D:2957:PHE:CG	2.49	0.47
1:D:3369:ALA:HA	1:D:3372:VAL:HG22	1.96	0.47
1:D:3937:TYR:HD1	1:D:3940:LYS:HZ1	1.63	0.47
1:D:4805:ASN:HB3	1:D:4808:PHE:CD2	2.49	0.47
1:C:214:VAL:N	1:C:341:TYR:HB2	2.30	0.47
1:C:225:GLY:HA3	1:C:228:ASP:OD1	2.15	0.47
1:C:1095:VAL:HB	1:C:1199:VAL:HB	1.96	0.47
1:C:1465:ASP:HB3	1:C:1468:LYS:HB2	1.96	0.47
1:C:2177:LEU:O	1:C:2180:GLN:HG3	2.15	0.47
1:C:2234:ARG:O	1:C:2238:TYR:CB	2.62	0.47
1:C:2952:GLU:HA	1:C:2957:PHE:CG	2.49	0.47
1:C:3050:VAL:HG12	1:C:3131:TYR:CE1	2.49	0.47
1:C:3067:CYS:O	1:C:3070:ILE:HG22	2.15	0.47
1:C:3573:MET:O	1:C:3577:ARG:HG2	2.14	0.47
1:C:3941:ASP:OD1	1:C:3942:VAL:N	2.48	0.47
1:A:2198:MET:HA	1:A:2201:LEU:HD12	1.95	0.47
1:A:3168:THR:O	1:A:3172:ILE:HD12	2.14	0.47
1:A:3531:ASP:O	1:A:3534:MET:HG2	2.13	0.47
1:A:4931:ILE:O	1:A:4935:LEU:HG	2.14	0.47
1:B:71:GLN:HB2	1:B:147:TRP:HH2	1.80	0.47
1:B:225:GLY:HA3	1:B:228:ASP:OD1	2.15	0.47
1:B:2132:GLY:O	1:B:2136:ARG:HG3	2.15	0.47
1:B:2183:GLY:HA2	1:B:2234:ARG:HH22	1.79	0.47
1:B:2349:ASN:HA	1:B:2352:VAL:HG12	1.95	0.47
1:B:3069:HIS:CE1	1:B:3142:THR:HG1	2.24	0.47
1:B:3282:PRO:HG3	1:B:3312:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3817:LEU:HD13	1:B:3899:PHE:HD1	1.79	0.47
1:B:4193:ILE:HG12	1:B:5006:GLN:OE1	2.14	0.47
1:B:4866:SER:OG	1:B:4868:ASP:OD1	2.31	0.47
1:D:52:THR:HA	1:D:60:PRO:HG3	1.97	0.47
1:D:442:ILE:CG2	1:D:446:GLN:HE22	2.27	0.47
1:D:981:GLN:HE21	1:D:1055:PRO:HB3	1.80	0.47
1:D:2121:PHE:CZ	1:D:3701:LEU:HB2	2.49	0.47
1:D:2183:GLY:HA2	1:D:2234:ARG:HH22	1.79	0.47
1:D:2247:GLN:O	1:D:2279:SER:OG	2.33	0.47
1:D:2426:TYR:O	1:D:2430:ILE:HG12	2.15	0.47
1:D:2566:ALA:HA	1:D:2569:PHE:HD2	1.80	0.47
1:D:2913:ALA:HA	1:D:2916:LYS:HD2	1.96	0.47
1:D:4574:ASN:OD1	1:D:4810:ALA:HA	2.15	0.47
1:D:4959:PHE:HD2	1:D:4985:LEU:HD21	1.79	0.47
1:D:4968:PHE:O	1:D:4974:GLY:HA3	2.14	0.47
1:C:989:ALA:CB	1:C:1039:LEU:HD11	2.44	0.47
1:C:1105:ALA:O	1:C:1189:LEU:N	2.47	0.47
1:C:1297:PHE:HE1	1:C:1548:LEU:HD12	1.78	0.47
1:C:1849:LEU:HB3	1:C:1945:TYR:CE2	2.49	0.47
1:C:2012:PHE:HB2	1:C:2018:GLU:HA	1.96	0.47
1:C:2183:GLY:HA2	1:C:2234:ARG:HH22	1.79	0.47
1:C:2862:LEU:O	1:C:2928:LYS:HG3	2.13	0.47
1:C:3183:VAL:HA	1:C:3186:LEU:HB2	1.96	0.47
1:C:3996:PHE:CD2	1:C:4020:GLN:HG2	2.50	0.47
1:A:214:VAL:N	1:A:341:TYR:HB2	2.30	0.47
1:A:442:ILE:CG2	1:A:446:GLN:HE22	2.27	0.47
1:A:1291:LEU:HD13	1:A:1595:LEU:HD21	1.95	0.47
1:A:1849:LEU:HB3	1:A:1945:TYR:CE2	2.49	0.47
1:A:2153:MET:O	1:A:2157:GLU:HG2	2.15	0.47
1:A:2177:LEU:O	1:A:2180:GLN:HG3	2.15	0.47
1:A:2233:CYS:O	1:A:2236:LEU:N	2.48	0.47
1:A:2234:ARG:O	1:A:2238:TYR:CB	2.62	0.47
1:A:2247:GLN:O	1:A:2279:SER:OG	2.33	0.47
1:A:2533:ALA:HB1	1:A:2589:LEU:HD21	1.96	0.47
1:A:2579:VAL:O	1:A:2583:LEU:HG	2.14	0.47
1:A:2675:THR:HB	1:A:2710:LEU:HD13	1.97	0.47
1:A:3002:LEU:O	1:A:3006:ILE:HG12	2.14	0.47
1:A:3432:GLU:O	1:A:3436:ARG:NE	2.47	0.47
1:A:3573:MET:O	1:A:3577:ARG:HG2	2.14	0.47
1:A:3996:PHE:CD2	1:A:4020:GLN:HG2	2.50	0.47
1:A:4197:ILE:HD13	1:A:4990:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:7:ILE:HG23	1:D:737:LEU:HB2	1.96	0.47
1:B:52:THR:HA	1:B:60:PRO:HG3	1.96	0.47
1:B:103:TYR:N	1:B:161:GLU:O	2.45	0.47
1:B:103:TYR:CZ	1:B:163:VAL:HA	2.50	0.47
1:B:247:TYR:CE2	1:B:376:ALA:HB2	2.50	0.47
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.46	0.47
1:B:2135:LEU:HD21	1:B:3663:LEU:HD23	1.95	0.47
1:B:2177:LEU:O	1:B:2180:GLN:HG3	2.15	0.47
1:B:2247:GLN:O	1:B:2279:SER:OG	2.33	0.47
1:B:2359:ARG:NH1	1:C:179:TYR:OH	2.47	0.47
1:B:2431:ASP:HB2	1:B:2501:SER:HB2	1.97	0.47
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.14	0.47
1:B:3157:ILE:HD12	1:B:3202:PRO:HD3	1.95	0.47
1:B:3354:LEU:HA	1:B:3358:PHE:CD2	2.42	0.47
1:B:3432:GLU:O	1:B:3436:ARG:NE	2.47	0.47
1:B:3438:VAL:HG13	1:B:3517:MET:CE	2.45	0.47
1:B:3941:ASP:OD1	1:B:3942:VAL:N	2.48	0.47
1:B:4711:PHE:HB3	1:B:4712:PRO:CD	2.43	0.47
1:D:1032:LYS:C	1:D:1036:ARG:HE	2.23	0.47
1:D:1691:GLN:OE1	1:D:1691:GLN:N	2.43	0.47
1:D:2132:GLY:O	1:D:2136:ARG:HG3	2.15	0.47
1:D:2233:CYS:O	1:D:2236:LEU:N	2.48	0.47
1:D:3067:CYS:O	1:D:3070:ILE:HG22	2.15	0.47
1:D:3114:LYS:HD2	1:D:3116:SER:N	2.25	0.47
1:D:3157:ILE:C	1:D:3162:GLN:HE22	2.23	0.47
1:D:3670:GLU:HG2	1:D:3728:ILE:HA	1.95	0.47
1:D:3722:TYR:CD2	1:D:3782:MET:HE3	2.50	0.47
1:D:4138:ASP:O	1:D:4142:ASN:ND2	2.37	0.47
1:D:4193:ILE:HG12	1:D:5006:GLN:OE1	2.14	0.47
1:D:4778:TRP:O	1:D:4782:VAL:HG23	2.15	0.47
1:D:4900:GLU:OE1	1:D:4900:GLU:N	2.48	0.47
1:C:442:ILE:CG2	1:C:446:GLN:HE22	2.27	0.47
1:C:469:ARG:HD2	1:C:3712:GLU:OE1	2.15	0.47
1:C:2135:LEU:HD21	1:C:3663:LEU:HD23	1.95	0.47
1:C:3114:LYS:HD2	1:C:3116:SER:N	2.25	0.47
1:C:3236:VAL:HA	1:C:3239:MET:HE3	1.97	0.47
1:C:3438:VAL:HG13	1:C:3517:MET:CE	2.45	0.47
1:C:3629:ARG:O	1:C:3633:VAL:HG23	2.14	0.47
1:C:4060:LYS:HA	1:C:4063:ASP:OD2	2.14	0.47
1:A:1005:TRP:HH2	1:A:1013:ILE:HD13	1.78	0.47
1:A:2132:GLY:O	1:A:2136:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2624:ARG:HB2	1:A:2910:THR:HB	1.97	0.47
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.28	0.47
1:A:3354:LEU:HD12	1:A:3415:TYR:CD2	2.45	0.47
1:A:3376:GLU:OE1	1:A:3380:ARG:NH1	2.47	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.15	0.47
1:B:425:PRO:HG3	1:B:506:TYR:CZ	2.49	0.47
1:B:2743:LEU:HD22	1:B:2811:GLU:OE1	2.15	0.47
1:B:2902:HIS:HD2	1:B:2903:PRO:HD2	1.79	0.47
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.46	0.47
1:B:3168:THR:O	1:B:3172:ILE:HD12	2.14	0.47
1:B:3722:TYR:CD2	1:B:3782:MET:HE3	2.50	0.47
1:D:35:LEU:HG	1:D:51:PRO:HA	1.96	0.47
1:D:155:LYS:HZ3	1:C:225:GLY:HA2	1.80	0.47
1:D:653:ALA:N	1:D:656:SER:OG	2.48	0.47
1:D:683:ARG:HB2	1:D:782:SER:HB2	1.96	0.47
1:D:1629:GLN:HE22	1:D:1631:GLN:HB3	1.80	0.47
1:D:2122:SER:O	1:D:2126:ARG:HG3	2.15	0.47
1:D:2153:MET:O	1:D:2157:GLU:HG2	2.15	0.47
1:D:2182:ILE:HG13	1:D:2234:ARG:NH1	2.29	0.47
1:D:2948:THR:HG22	1:D:2949:SER:N	2.29	0.47
1:D:3343:GLN:OE1	1:D:3414:ARG:NH2	2.47	0.47
1:D:3411:LEU:HD23	1:D:3414:ARG:NH2	2.29	0.47
1:D:3817:LEU:HD13	1:D:3899:PHE:HD1	1.79	0.47
1:D:3941:ASP:OD1	1:D:3942:VAL:N	2.48	0.47
1:D:3957:VAL:O	1:D:3961:VAL:HG23	2.14	0.47
1:C:437:PRO:HB2	1:C:440:ALA:HB3	1.97	0.47
1:C:2122:SER:O	1:C:2126:ARG:HG3	2.15	0.47
1:C:2132:GLY:O	1:C:2136:ARG:HG3	2.15	0.47
1:C:3002:LEU:O	1:C:3006:ILE:HG12	2.14	0.47
1:C:3202:PRO:C	1:C:3284:TRP:HH2	2.22	0.47
1:C:3411:LEU:HD23	1:C:3414:ARG:NH2	2.29	0.47
1:C:3424:LEU:HD23	1:C:3523:ASN:HD22	1.79	0.47
1:C:4193:ILE:HG12	1:C:5006:GLN:OE1	2.14	0.47
1:C:4711:PHE:HB3	1:C:4712:PRO:CD	2.44	0.47
1:C:4959:PHE:HD2	1:C:4985:LEU:HD21	1.79	0.47
1:C:4967:TYR:OH	1:C:5033:GLU:OE2	2.21	0.47
1:A:71:GLN:HB2	1:A:147:TRP:HH2	1.80	0.47
1:A:247:TYR:CE2	1:A:376:ALA:HB2	2.50	0.47
1:A:2426:TYR:O	1:A:2430:ILE:HG12	2.15	0.47
1:A:3716:LEU:HD13	1:A:3793:MET:HG3	1.97	0.47
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4067:LYS:HB3	1:A:4103:PHE:HZ	1.80	0.47
1:A:4640:GLU:H	1:A:4640:GLU:CD	2.23	0.47
1:A:4928:LEU:O	1:A:4932:ILE:HD12	2.13	0.47
1:B:1087:ARG:HD2	1:B:1222:GLY:O	2.14	0.47
1:B:1657:LEU:O	1:B:1661:ARG:N	2.37	0.47
1:B:1708:ARG:NH1	1:B:1836:PHE:O	2.48	0.47
1:B:2559:LEU:HD11	1:B:2603:ILE:HG12	1.97	0.47
1:B:3002:LEU:O	1:B:3006:ILE:HG12	2.14	0.47
1:B:3147:ILE:CD1	1:B:3152:PHE:HB2	2.39	0.47
1:B:4888:TYR:OH	1:C:4917:ASP:OD2	2.21	0.47
1:B:4892:ARG:NH2	1:C:4898:GLY:HA3	2.23	0.47
1:D:437:PRO:HB2	1:D:440:ALA:HB3	1.97	0.47
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.97	0.47
1:D:2716:ASP:OD1	1:D:2716:ASP:N	2.48	0.47
1:D:3202:PRO:C	1:D:3284:TRP:HH2	2.22	0.47
1:D:3368:ARG:HG2	1:D:3371:LYS:NZ	2.29	0.47
1:D:3428:ASN:O	1:D:3431:ALA:N	2.48	0.47
1:C:224:HIS:CD2	1:C:388:LEU:HG	2.50	0.47
1:C:683:ARG:HB2	1:C:782:SER:HB2	1.96	0.47
1:C:981:GLN:HE21	1:C:1055:PRO:HB3	1.80	0.47
1:C:2431:ASP:HB2	1:C:2501:SER:HB2	1.97	0.47
1:C:2517:PHE:CD1	1:C:2520:HIS:HE1	2.33	0.47
1:C:2743:LEU:HD22	1:C:2811:GLU:OE1	2.15	0.47
1:C:3605:HIS:O	1:C:3609:THR:HG23	2.15	0.47
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.15	0.47
1:A:16:THR:OG1	1:A:99:ARG:N	2.41	0.47
1:A:103:TYR:CZ	1:A:163:VAL:HA	2.50	0.47
1:A:881:LEU:O	1:A:885:THR:HG23	2.15	0.47
1:A:1708:ARG:NH1	1:A:1836:PHE:O	2.47	0.47
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.48	0.47
1:A:2694:GLU:OE2	1:A:2697:ARG:NE	2.40	0.47
1:A:3424:LEU:HD23	1:A:3523:ASN:HD22	1.79	0.47
1:A:3428:ASN:O	1:A:3431:ALA:N	2.48	0.47
1:A:3959:LYS:HB2	1:A:3959:LYS:HE2	1.73	0.47
2:G:18:ARG:NH1	2:G:51:GLY:HA3	2.29	0.47
2:G:73:LYS:HZ3	2:G:100:ASP:HB2	1.80	0.47
1:B:213:TYR:N	1:B:341:TYR:H	2.08	0.47
1:B:1297:PHE:HA	1:B:1522:LEU:HD22	1.97	0.47
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.48	0.47
1:B:2122:SER:O	1:B:2126:ARG:HG3	2.15	0.47
1:D:225:GLY:HA3	1:D:228:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.48	0.47
1:D:2431:ASP:HB2	1:D:2501:SER:HB2	1.97	0.47
1:D:2517:PHE:CD1	1:D:2520:HIS:HE1	2.33	0.47
1:D:3236:VAL:HA	1:D:3239:MET:HE3	1.97	0.47
1:D:3438:VAL:HG13	1:D:3517:MET:CE	2.45	0.47
1:D:3527:PRO:HG2	1:D:3572:GLN:HB3	1.96	0.47
1:C:247:TYR:CE2	1:C:376:ALA:HB2	2.50	0.47
1:C:1291:LEU:HD13	1:C:1595:LEU:HD21	1.95	0.47
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.46	0.47
1:C:2153:MET:O	1:C:2157:GLU:HG2	2.15	0.47
1:C:3077:ALA:HB1	1:C:3156:VAL:HG21	1.97	0.47
1:C:3343:GLN:OE1	1:C:3414:ARG:NH2	2.47	0.47
1:C:3716:LEU:HD13	1:C:3793:MET:HG3	1.97	0.47
1:C:3959:LYS:HB2	1:C:3959:LYS:HE2	1.73	0.47
1:A:355:LEU:HD22	1:A:380:GLN:HB3	1.96	0.46
1:A:1629:GLN:HE22	1:A:1631:GLN:HB3	1.80	0.46
1:A:2449:GLU:O	1:A:2453:ILE:HG12	2.14	0.46
1:A:2517:PHE:CD1	1:A:2520:HIS:HE1	2.33	0.46
1:A:2536:LEU:HD23	1:A:2541:PHE:HD2	1.80	0.46
1:A:2559:LEU:HD11	1:A:2603:ILE:HG12	1.97	0.46
1:A:2908:TYR:HA	1:A:2911:LEU:HG	1.97	0.46
1:A:3527:PRO:HG2	1:A:3572:GLN:HB3	1.96	0.46
1:A:3681:GLY:O	1:A:3682:GLU:HG3	2.16	0.46
1:A:4090:LYS:NZ	1:A:4115:SER:OG	2.48	0.46
1:A:4574:ASN:OD1	1:A:4810:ALA:HA	2.15	0.46
2:E:105:LYS:HG2	2:E:107:GLU:OE1	2.14	0.46
2:H:49:MET:N	2:H:54:GLU:OE2	2.45	0.46
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.48	0.46
1:B:2624:ARG:HB2	1:B:2910:THR:HB	1.97	0.46
1:B:2908:TYR:HA	1:B:2911:LEU:HG	1.97	0.46
1:B:3758:MET:HB3	1:B:3762:ARG:HH12	1.80	0.46
1:B:3937:TYR:HA	1:B:3940:LYS:NZ	2.30	0.46
1:B:3959:LYS:HB2	1:B:3959:LYS:HE2	1.73	0.46
1:B:4574:ASN:OD1	1:B:4810:ALA:HA	2.15	0.46
1:B:4900:GLU:OE1	1:B:4900:GLU:N	2.48	0.46
1:D:247:TYR:CE2	1:D:376:ALA:HB2	2.50	0.46
1:D:2234:ARG:O	1:D:2238:TYR:CB	2.62	0.46
1:D:2907:PRO:O	1:D:2910:THR:OG1	2.28	0.46
1:D:3157:ILE:HG22	1:D:3162:GLN:NE2	2.30	0.46
1:D:3424:LEU:HD23	1:D:3523:ASN:HD22	1.79	0.46
1:D:4157:ASP:H	1:D:4161:ARG:NH1	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1658:ASP:N	1:C:1658:ASP:OD1	2.48	0.46
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.48	0.46
1:C:2233:CYS:O	1:C:2236:LEU:N	2.48	0.46
1:C:2536:LEU:HD23	1:C:2541:PHE:HD2	1.80	0.46
1:C:3157:ILE:C	1:C:3162:GLN:HE22	2.23	0.46
1:C:3354:LEU:O	1:C:3358:PHE:HB2	2.15	0.46
1:C:3369:ALA:HA	1:C:3372:VAL:HG22	1.96	0.46
1:C:3428:ASN:O	1:C:3431:ALA:N	2.48	0.46
1:C:3465:ASN:OD1	1:C:3467:MET:HB2	2.15	0.46
1:C:4157:ASP:H	1:C:4161:ARG:NH1	2.13	0.46
1:C:4241:THR:O	1:C:4245:MET:HE3	2.15	0.46
1:C:4574:ASN:OD1	1:C:4810:ALA:HA	2.15	0.46
1:C:4900:GLU:OE1	1:C:4900:GLU:N	2.48	0.46
1:A:650:VAL:HG23	1:A:777:PHE:HB2	1.98	0.46
1:A:1032:LYS:C	1:A:1036:ARG:HE	2.23	0.46
1:A:1130:GLN:NE2	1:A:1136:SER:HB2	2.31	0.46
1:A:2182:ILE:HG13	1:A:2234:ARG:NH1	2.30	0.46
1:A:2566:ALA:HA	1:A:2569:PHE:HD2	1.80	0.46
1:A:2609:ALA:O	1:A:2612[A]:ARG:NH1	2.48	0.46
1:A:2952:GLU:HA	1:A:2957:PHE:CG	2.49	0.46
1:A:3937:TYR:HA	1:A:3940:LYS:NZ	2.30	0.46
1:A:3991:GLY:HA2	1:A:3994:HIS:HD1	1.80	0.46
2:F:11:ASP:OD1	2:F:12:GLY:N	2.49	0.46
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.97	0.46
1:B:653:ALA:N	1:B:656:SER:OG	2.48	0.46
1:B:2182:ILE:HG13	1:B:2234:ARG:NH1	2.30	0.46
1:B:3465:ASN:OD1	1:B:3467:MET:HB2	2.14	0.46
1:B:3527:PRO:HG2	1:B:3572:GLN:HB3	1.96	0.46
1:B:3585:ASP:OD1	1:B:3586:ALA:N	2.49	0.46
1:B:3991:GLY:HA2	1:B:3994:HIS:HD1	1.80	0.46
1:D:359:TYR:HB2	1:D:374:LYS:NZ	2.31	0.46
1:D:651:GLY:HA3	1:D:776:LEU:HD23	1.97	0.46
1:D:1657:LEU:O	1:D:1661:ARG:N	2.37	0.46
1:D:2624:ARG:HB2	1:D:2910:THR:HB	1.97	0.46
1:D:2675:THR:HB	1:D:2710:LEU:HD13	1.97	0.46
1:C:359:TYR:HB2	1:C:374:LYS:NZ	2.31	0.46
1:C:425:PRO:HG3	1:C:506:TYR:CZ	2.49	0.46
1:C:651:GLY:HA3	1:C:776:LEU:HD23	1.97	0.46
1:C:2247:GLN:O	1:C:2279:SER:OG	2.33	0.46
1:C:2313:LEU:HD11	1:C:2418:LEU:HD21	1.97	0.46
1:C:2626:LEU:O	1:C:2630:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2913:ALA:HA	1:C:2916:LYS:HD2	1.96	0.46
1:C:3354:LEU:HA	1:C:3358:PHE:CD2	2.42	0.46
1:C:3604:TYR:HD2	1:C:3608:GLN:HE22	1.63	0.46
1:A:1297:PHE:HA	1:A:1522:LEU:HD22	1.98	0.46
1:A:2431:ASP:HB2	1:A:2501:SER:HB2	1.97	0.46
1:A:2799:GLU:O	1:A:2802:LYS:HB2	2.16	0.46
1:A:2981:VAL:HA	1:A:2985:ARG:HE	1.81	0.46
1:A:3722:TYR:CD2	1:A:3782:MET:HE3	2.50	0.46
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.29	0.46
2:G:11:ASP:OD1	2:G:12:GLY:N	2.48	0.46
1:B:2536:LEU:HD23	1:B:2541:PHE:HD2	1.80	0.46
1:D:71:GLN:HB2	1:D:147:TRP:HH2	1.80	0.46
1:D:881:LEU:O	1:D:885:THR:HG23	2.15	0.46
1:D:2012:PHE:HB2	1:D:2018:GLU:HA	1.96	0.46
1:D:2981:VAL:HA	1:D:2985:ARG:HE	1.81	0.46
1:D:3067:CYS:O	1:D:3071:LEU:HG	2.16	0.46
1:D:3629:ARG:O	1:D:3633:VAL:HG23	2.14	0.46
1:D:3695:PRO:HB2	1:D:3700:GLN:HG2	1.96	0.46
1:C:2426:TYR:O	1:C:2430:ILE:HG12	2.15	0.46
1:C:3157:ILE:HG22	1:C:3162:GLN:NE2	2.30	0.46
1:C:3786:CYS:SG	1:C:3794:VAL:HB	2.56	0.46
1:C:3937:TYR:HA	1:C:3940:LYS:NZ	2.30	0.46
1:A:225:GLY:HA3	1:A:228:ASP:OD1	2.15	0.46
1:A:1601:MET:CE	1:A:1602:PRO:HD2	2.39	0.46
1:A:2199:ARG:NH2	1:A:3861:GLU:OE2	2.49	0.46
1:A:2292:GLU:OE2	1:A:2292:GLU:N	2.34	0.46
1:A:2431:ASP:OD1	1:A:2435:ARG:NE	2.39	0.46
1:A:2541:PHE:O	1:A:2544:THR:HG22	2.14	0.46
1:A:2575:ARG:HG3	1:A:2575:ARG:O	2.14	0.46
1:A:3402:CYS:HB3	1:A:3458:PHE:CE1	2.51	0.46
1:B:27:THR:OG1	1:B:32:GLN:OE1	2.28	0.46
1:B:168:ASP:OD1	1:B:201:ASN:ND2	2.49	0.46
1:B:214:VAL:N	1:B:341:TYR:HB2	2.30	0.46
1:B:359:TYR:HB2	1:B:374:LYS:NZ	2.31	0.46
1:B:442:ILE:CG2	1:B:446:GLN:HE22	2.27	0.46
1:B:647:ASN:ND2	1:B:822:ARG:HB3	2.31	0.46
1:B:881:LEU:O	1:B:885:THR:HG23	2.15	0.46
1:B:1730:MET:HG3	1:B:1773:PRO:HG3	1.98	0.46
1:B:2802:LYS:HA	1:B:2802:LYS:HD3	1.67	0.46
1:B:3077:ALA:HB1	1:B:3156:VAL:HG21	1.97	0.46
1:B:4052:SER:O	1:B:4055:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4157:ASP:H	1:B:4161:ARG:NH1	2.13	0.46
1:D:168:ASP:OD1	1:D:201:ASN:ND2	2.49	0.46
1:D:224:HIS:CD2	1:D:388:LEU:HG	2.50	0.46
1:D:1105:ALA:O	1:D:1189:LEU:N	2.47	0.46
1:D:2268[B]:GLN:H	1:D:2268[B]:GLN:HG3	1.49	0.46
1:D:3002:LEU:O	1:D:3006:ILE:HG12	2.14	0.46
1:D:4182:GLU:HG2	1:D:4192:ARG:HG2	1.97	0.46
1:C:27:THR:OG1	1:C:32:GLN:OE1	2.28	0.46
1:C:103:TYR:CZ	1:C:163:VAL:HA	2.50	0.46
1:C:495:ASN:OD1	1:C:523:TYR:OH	2.30	0.46
1:C:650:VAL:HG23	1:C:777:PHE:HB2	1.98	0.46
1:C:1032:LYS:C	1:C:1036:ARG:HE	2.23	0.46
1:C:2098:VAL:HA	1:C:2101:MET:HG2	1.98	0.46
1:C:2500:ALA:HB2	1:C:2553:TYR:CD1	2.49	0.46
1:C:3067:CYS:O	1:C:3071:LEU:HG	2.16	0.46
1:A:110:ARG:HH11	1:A:115:ARG:HE	1.62	0.46
1:A:359:TYR:HB2	1:A:374:LYS:NZ	2.31	0.46
1:A:3585:ASP:OD1	1:A:3586:ALA:N	2.49	0.46
1:A:3786:CYS:SG	1:A:3794:VAL:HB	2.56	0.46
1:A:3941:ASP:OD1	1:A:3942:VAL:N	2.48	0.46
2:E:66:MET:HE1	2:E:74:LEU:HD21	1.96	0.46
2:G:55:VAL:HA	1:C:1785:ALA:H	1.79	0.46
1:B:418:LEU:HD13	1:B:493:ARG:HB2	1.98	0.46
1:B:716:PHE:HE1	1:B:764:VAL:HG11	1.81	0.46
1:B:2313:LEU:HD11	1:B:2418:LEU:HD21	1.97	0.46
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.97	0.46
1:B:3139:VAL:O	1:B:3143:LEU:HD23	2.16	0.46
1:B:3369:ALA:HA	1:B:3372:VAL:HG22	1.96	0.46
1:B:4071:ILE:HA	1:B:4074:SER:HB3	1.98	0.46
1:B:4182:GLU:HG2	1:B:4192:ARG:HG2	1.97	0.46
1:B:4954:MET:HE3	3:B:5301:ATP:C8	2.51	0.46
1:D:103:TYR:CZ	1:D:163:VAL:HA	2.50	0.46
1:D:213:TYR:N	1:D:341:TYR:H	2.08	0.46
1:D:355:LEU:HD22	1:D:380:GLN:HB3	1.96	0.46
1:D:647:ASN:ND2	1:D:822:ARG:HB3	2.31	0.46
1:D:830:ARG:NH1	1:D:832:GLU:HB2	2.30	0.46
1:D:1930:LYS:C	1:D:1931:LEU:HD22	2.41	0.46
1:D:2098:VAL:HA	1:D:2101:MET:HG2	1.98	0.46
1:D:2536:LEU:HD23	1:D:2541:PHE:HD2	1.80	0.46
1:D:3183:VAL:HA	1:D:3186:LEU:HB2	1.96	0.46
1:D:3354:LEU:O	1:D:3358:PHE:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3605:HIS:O	1:D:3609:THR:HG23	2.15	0.46
1:D:4931:ILE:O	1:D:4935:LEU:HG	2.14	0.46
1:C:35:LEU:HG	1:C:51:PRO:HA	1.96	0.46
1:C:39:ALA:O	1:C:111:HIS:NE2	2.49	0.46
1:C:1297:PHE:HA	1:C:1522:LEU:HD22	1.98	0.46
1:C:1730:MET:HG3	1:C:1773:PRO:HG3	1.98	0.46
1:C:1930:LYS:C	1:C:1931:LEU:HD22	2.41	0.46
1:C:3402:CYS:HB3	1:C:3458:PHE:CE1	2.51	0.46
1:C:3585:ASP:OD1	1:C:3586:ALA:N	2.49	0.46
1:C:4954:MET:HE3	3:C:5301:ATP:C8	2.51	0.46
1:A:39:ALA:O	1:A:111:HIS:NE2	2.49	0.46
1:A:224:HIS:CD2	1:A:388:LEU:HG	2.50	0.46
1:A:530:ILE:HG21	1:A:540:PHE:HE2	1.81	0.46
1:A:1730:MET:HG3	1:A:1773:PRO:HG3	1.98	0.46
1:A:2098:VAL:HA	1:A:2101:MET:HG2	1.98	0.46
1:A:3157:ILE:C	1:A:3162:GLN:HE22	2.23	0.46
1:A:3308:THR:H	1:A:3311:HIS:HB2	1.81	0.46
1:A:3571:TRP:CE2	1:B:1228:ILE:HG12	2.49	0.46
1:A:3721:LEU:HD12	1:A:3721:LEU:HA	1.83	0.46
1:A:3758:MET:HB3	1:A:3762:ARG:HH12	1.80	0.46
2:G:66:MET:HE1	2:G:74:LEU:HD21	1.96	0.46
1:B:13:PHE:CE1	1:B:164:ARG:HG2	2.51	0.46
1:B:392:ARG:HH21	1:B:3910:THR:HA	1.80	0.46
1:B:530:ILE:HG21	1:B:540:PHE:HE2	1.81	0.46
1:B:1629:GLN:NE2	1:B:1631:GLN:HB3	2.31	0.46
1:B:1849:LEU:HB3	1:B:1945:TYR:CE2	2.49	0.46
1:B:2098:VAL:HA	1:B:2101:MET:HG2	1.98	0.46
1:B:2234:ARG:O	1:B:2238:TYR:CB	2.63	0.46
1:B:2619:LEU:HD13	1:B:2647:HIS:CE1	2.50	0.46
1:B:3840:SER:OG	1:B:3877:ASP:OD1	2.28	0.46
1:D:303:ASP:H	1:D:306:LYS:HE3	1.80	0.46
1:D:716:PHE:HE1	1:D:764:VAL:HG11	1.81	0.46
1:D:2237:CYS:O	1:D:2240:CYS:HB2	2.16	0.46
1:D:2283:ASN:ND2	1:D:2286:LEU:HG	2.31	0.46
1:D:2609:ALA:O	1:D:2612[A]:ARG:NH1	2.48	0.46
1:D:2743:LEU:HD22	1:D:2811:GLU:OE1	2.15	0.46
1:D:3965:LEU:O	1:D:3969:ILE:HG12	2.16	0.46
1:D:4067:LYS:HB3	1:D:4103:PHE:HZ	1.80	0.46
1:D:4640:GLU:H	1:D:4640:GLU:CD	2.23	0.46
1:C:1297:PHE:CD2	1:C:1522:LEU:HA	2.51	0.46
1:C:1629:GLN:HE22	1:C:1631:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2619:LEU:HD13	1:C:2647:HIS:CE1	2.50	0.46
1:C:2807:TRP:HA	1:C:2810:LYS:HG2	1.98	0.46
1:C:3078:ARG:HG2	1:C:3082:LYS:NZ	2.31	0.46
1:C:3695:PRO:HB2	1:C:3700:GLN:HG2	1.97	0.46
1:C:3937:TYR:HD1	1:C:3940:LYS:HZ1	1.63	0.46
1:A:52:THR:HA	1:A:60:PRO:HG3	1.96	0.46
1:A:392:ARG:HH21	1:A:3910:THR:HA	1.80	0.46
1:A:418:LEU:HD13	1:A:493:ARG:HB2	1.98	0.46
1:A:469:ARG:HD2	1:A:3712:GLU:OE1	2.15	0.46
1:A:2024:PRO:O	1:A:2027:ILE:HG22	2.16	0.46
1:A:2358:ILE:HB	1:B:195:PHE:CD1	2.50	0.46
1:A:3067:CYS:O	1:A:3071:LEU:HG	2.16	0.46
1:A:3139:VAL:O	1:A:3143:LEU:HD23	2.16	0.46
1:A:3236:VAL:HA	1:A:3239:MET:HE3	1.97	0.46
1:A:3343:GLN:OE1	1:A:3414:ARG:NH2	2.47	0.46
1:A:3965:LEU:O	1:A:3969:ILE:HG12	2.16	0.46
2:H:66:MET:HE1	2:H:74:LEU:HD21	1.96	0.46
1:B:469:ARG:HD2	1:B:3712:GLU:OE1	2.15	0.46
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.51	0.46
1:B:2237:CYS:O	1:B:2240:CYS:HB2	2.16	0.46
1:B:2480:GLY:O	1:B:2484:ALA:N	2.47	0.46
1:B:2575:ARG:O	1:B:2575:ARG:HG3	2.14	0.46
1:B:3604:TYR:HD2	1:B:3608:GLN:HE22	1.63	0.46
1:B:3681:GLY:O	1:B:3682:GLU:HG3	2.16	0.46
1:B:3965:LEU:O	1:B:3969:ILE:HG12	2.16	0.46
1:B:4892:ARG:NH1	1:C:4917:ASP:HB3	2.31	0.46
1:D:110:ARG:HH11	1:D:115:ARG:HE	1.62	0.46
1:D:469:ARG:HD2	1:D:3712:GLU:OE1	2.15	0.46
1:D:650:VAL:HG23	1:D:777:PHE:HB2	1.98	0.46
1:D:1521:ASP:HB3	1:D:1524:THR:OG1	2.16	0.46
1:D:2619:LEU:HD13	1:D:2647:HIS:CE1	2.51	0.46
1:D:3077:ALA:HB1	1:D:3156:VAL:HG21	1.97	0.46
1:D:3540:TYR:O	1:D:3543:LYS:HD2	2.16	0.46
1:D:3681:GLY:O	1:D:3682:GLU:HG3	2.16	0.46
1:D:3937:TYR:HA	1:D:3940:LYS:NZ	2.30	0.46
1:C:110:ARG:HH11	1:C:115:ARG:HE	1.62	0.46
1:C:2431:ASP:OD1	1:C:2435:ARG:NE	2.39	0.46
1:C:2559:LEU:HD11	1:C:2603:ILE:HG12	1.97	0.46
1:C:3069:HIS:ND1	1:C:3142:THR:OG1	2.27	0.46
1:C:4052:SER:O	1:C:4055:VAL:N	2.48	0.46
1:C:4071:ILE:HA	1:C:4074:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:PHE:CE1	1:A:164:ARG:HG2	2.51	0.46
1:A:647:ASN:ND2	1:A:822:ARG:HB3	2.31	0.46
1:A:1521:ASP:HB3	1:A:1524:THR:OG1	2.16	0.46
2:F:66:MET:HE1	2:F:74:LEU:HD21	1.96	0.46
1:B:2189:LYS:HZ3	1:B:2192:TYR:HB2	1.81	0.46
1:B:2233:CYS:O	1:B:2236:LEU:N	2.48	0.46
1:B:3428:ASN:O	1:B:3431:ALA:N	2.48	0.46
1:B:3786:CYS:SG	1:B:3794:VAL:HB	2.56	0.46
1:B:4241:THR:O	1:B:4245:MET:HE3	2.15	0.46
1:B:4998:LYS:HB3	1:B:5003:HIS:CE1	2.51	0.46
1:D:39:ALA:O	1:D:111:HIS:NE2	2.49	0.46
1:D:530:ILE:HG21	1:D:540:PHE:HE2	1.81	0.46
1:D:1297:PHE:HA	1:D:1522:LEU:HD22	1.98	0.46
1:D:2271:THR:HG23	1:D:2274:ASP:N	2.27	0.46
1:D:2908:TYR:HA	1:D:2911:LEU:HG	1.97	0.46
1:D:3402:CYS:HB3	1:D:3458:PHE:CE1	2.51	0.46
1:C:71:GLN:HB2	1:C:147:TRP:HH2	1.80	0.46
1:C:881:LEU:O	1:C:885:THR:HG23	2.15	0.46
1:C:1450:VAL:HB	1:C:1516:ILE:HD13	1.98	0.46
1:C:2533:ALA:HB1	1:C:2589:LEU:HD21	1.96	0.46
1:C:2624:ARG:HB2	1:C:2910:THR:HB	1.97	0.46
1:C:2675:THR:HB	1:C:2710:LEU:HD13	1.97	0.46
1:C:2908:TYR:HA	1:C:2911:LEU:HG	1.97	0.46
1:C:3681:GLY:O	1:C:3682:GLU:HG3	2.16	0.46
1:C:4651:THR:OG1	1:C:4803:HIS:NE2	2.36	0.46
1:A:54:ASN:OD1	1:A:57:ASN:N	2.32	0.46
1:A:1690:ASP:O	1:A:1693:GLN:HB2	2.16	0.46
1:A:2271:THR:HG23	1:A:2274:ASP:N	2.27	0.46
1:A:2743:LEU:HD22	1:A:2811:GLU:OE1	2.15	0.46
1:A:3157:ILE:HG22	1:A:3162:GLN:NE2	2.30	0.46
1:A:3349:ALA:HB3	1:A:3415:TYR:CE1	2.48	0.46
1:A:3354:LEU:O	1:A:3358:PHE:HB2	2.15	0.46
1:A:3368:ARG:HG2	1:A:3371:LYS:NZ	2.29	0.46
1:A:4052:SER:O	1:A:4055:VAL:N	2.48	0.46
1:A:4182:GLU:HG2	1:A:4192:ARG:HG2	1.97	0.46
2:H:75:THR:HG23	2:H:98:VAL:HG22	1.98	0.46
1:B:224:HIS:CD2	1:B:388:LEU:HG	2.50	0.46
1:B:262:LEU:HD21	1:B:280:LEU:HD22	1.98	0.46
1:B:929:LEU:O	1:B:933:LEU:HG	2.16	0.46
1:B:1470:ARG:HB3	1:B:1491:ASN:CG	2.41	0.46
1:B:1490:SER:OG	1:B:1492:CYS:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2426:TYR:O	1:B:2430:ILE:HG12	2.15	0.46
1:B:2761:TYR:HB3	1:B:2929:PHE:CZ	2.51	0.46
1:B:2807:TRP:HA	1:B:2810:LYS:HG2	1.98	0.46
1:B:3067:CYS:O	1:B:3071:LEU:HG	2.16	0.46
1:B:3213:TYR:CD2	1:B:3302:PRO:HG2	2.51	0.46
1:B:4640:GLU:CD	1:B:4640:GLU:H	2.23	0.46
1:D:1125:ASN:H	1:D:1128:ARG:NH1	2.14	0.46
1:D:1490:SER:OG	1:D:1492:CYS:O	2.34	0.46
1:D:2292:GLU:OE2	1:D:2292:GLU:N	2.35	0.46
1:D:2559:LEU:HD11	1:D:2603:ILE:HG12	1.97	0.46
1:D:3991:GLY:HA2	1:D:3994:HIS:HD1	1.80	0.46
1:D:4052:SER:O	1:D:4055:VAL:N	2.48	0.46
1:D:4954:MET:HE3	3:D:5301:ATP:C8	2.51	0.46
1:C:392:ARG:HH21	1:C:3910:THR:HA	1.80	0.46
1:C:971:ASP:OD2	1:C:974:HIS:HB3	2.16	0.46
1:C:1452:TRP:CZ3	1:C:1550:PRO:HG3	2.51	0.46
1:C:1470:ARG:HB3	1:C:1491:ASN:CG	2.41	0.46
1:C:1690:ASP:HB3	1:C:1693:GLN:HG3	1.98	0.46
1:C:2199:ARG:NH2	1:C:3861:GLU:OE2	2.49	0.46
1:C:2283:ASN:ND2	1:C:2286:LEU:HG	2.31	0.46
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.97	0.46
1:C:2799:GLU:O	1:C:2802:LYS:HB2	2.16	0.46
1:C:3263:TYR:HD1	1:C:3270:ILE:HD12	1.78	0.46
1:C:4067:LYS:HB3	1:C:4103:PHE:HZ	1.80	0.46
1:C:4182:GLU:HG2	1:C:4192:ARG:HG2	1.97	0.46
1:A:103:TYR:N	1:A:161:GLU:O	2.45	0.46
1:A:651:GLY:HA3	1:A:776:LEU:HD23	1.97	0.46
1:A:716:PHE:HE1	1:A:764:VAL:HG11	1.81	0.46
1:A:2619:LEU:HD13	1:A:2647:HIS:CE1	2.51	0.46
1:A:3213:TYR:CD2	1:A:3302:PRO:HG2	2.51	0.46
1:A:3937:TYR:HD1	1:A:3940:LYS:HZ1	1.64	0.46
1:A:4900:GLU:OE1	1:A:4900:GLU:N	2.48	0.46
1:B:39:ALA:O	1:B:111:HIS:NE2	2.49	0.46
1:B:981:GLN:HE21	1:B:1055:PRO:HB3	1.80	0.46
1:B:1032:LYS:C	1:B:1036:ARG:HE	2.23	0.46
1:B:1629:GLN:HE22	1:B:1631:GLN:HB3	1.80	0.46
1:B:1930:LYS:C	1:B:1931:LEU:HD22	2.41	0.46
1:B:2199:ARG:NH2	1:B:3861:GLU:OE2	2.49	0.46
1:B:3154:ASP:HA	1:B:3202:PRO:HB3	1.98	0.46
1:B:3157:ILE:HG22	1:B:3162:GLN:NE2	2.30	0.46
1:B:3157:ILE:C	1:B:3162:GLN:HE22	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3199:ALA:O	1:B:3283:ARG:NE	2.49	0.46
1:B:3236:VAL:HA	1:B:3239:MET:HE3	1.97	0.46
1:B:4778:TRP:O	1:B:4782:VAL:HG23	2.15	0.46
1:D:232:THR:CG2	1:D:257:ARG:HE	2.29	0.46
1:D:392:ARG:HH21	1:D:3910:THR:HA	1.80	0.46
1:D:1100:MET:HE2	1:D:1100:MET:HB2	1.79	0.46
1:D:2761:TYR:HB3	1:D:2929:PHE:CZ	2.51	0.46
1:D:2807:TRP:HA	1:D:2810:LYS:HG2	1.98	0.46
1:D:3078:ARG:HG2	1:D:3082:LYS:NZ	2.31	0.46
1:D:3585:ASP:OD1	1:D:3586:ALA:N	2.49	0.46
1:D:3786:CYS:SG	1:D:3794:VAL:HB	2.56	0.46
1:D:4085:ARG:NH2	1:D:4122:MET:HE2	2.31	0.46
1:D:4967:TYR:OH	1:D:5033:GLU:OE2	2.21	0.46
1:C:13:PHE:CE1	1:C:164:ARG:HG2	2.51	0.46
1:C:132:ALA:HA	1:C:193:ALA:O	2.16	0.46
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.31	0.46
1:C:253:CYS:O	1:C:258:SER:OG	2.25	0.46
1:C:262:LEU:HD21	1:C:280:LEU:HD22	1.98	0.46
1:C:1450:VAL:HG22	1:C:1552:VAL:HG22	1.98	0.46
1:C:1808:ARG:HH11	1:C:1853:ILE:HG22	1.81	0.46
1:C:3199:ALA:O	1:C:3283:ARG:NE	2.49	0.46
1:C:3695:PRO:HB3	1:C:3699:HIS:HB3	1.98	0.46
1:A:303:ASP:H	1:A:306:LYS:HE3	1.80	0.45
1:A:929:LEU:O	1:A:933:LEU:HG	2.16	0.45
1:A:981:GLN:HE21	1:A:1055:PRO:HB3	1.80	0.45
1:A:1930:LYS:C	1:A:1931:LEU:HD22	2.41	0.45
1:A:2122:SER:O	1:A:2126:ARG:HG3	2.15	0.45
1:A:2313:LEU:HD11	1:A:2418:LEU:HD21	1.97	0.45
1:A:4241:THR:O	1:A:4245:MET:HE3	2.15	0.45
1:A:4998:LYS:HB3	1:A:5003:HIS:CE1	2.51	0.45
2:E:49:MET:N	2:E:54:GLU:OE2	2.45	0.45
2:G:75:THR:HG23	2:G:98:VAL:HG22	1.98	0.45
1:B:223:PHE:CE2	1:B:230:CYS:HB2	2.51	0.45
1:B:303:ASP:H	1:B:306:LYS:HE3	1.80	0.45
1:B:650:VAL:HG23	1:B:777:PHE:HB2	1.98	0.45
1:B:651:GLY:HA3	1:B:776:LEU:HD23	1.97	0.45
1:B:717:ASP:HB3	1:B:720:HIS:H	1.81	0.45
1:B:830:ARG:NH1	1:B:832:GLU:HB2	2.29	0.45
1:B:1690:ASP:HB3	1:B:1693:GLN:HG3	1.98	0.45
1:B:2024:PRO:O	1:B:2027:ILE:HG22	2.16	0.45
1:B:2475:GLN:H	1:B:2475:GLN:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2675:THR:HB	1:B:2710:LEU:HD13	1.97	0.45
1:B:2799:GLU:O	1:B:2802:LYS:HB2	2.16	0.45
1:B:3078:ARG:HG2	1:B:3082:LYS:NZ	2.31	0.45
1:B:4148:THR:HG22	1:B:4152:GLU:OE2	2.16	0.45
1:D:483:MET:O	1:D:487:VAL:HG23	2.17	0.45
1:D:1730:MET:HG3	1:D:1773:PRO:HG3	1.98	0.45
1:D:2626:LEU:O	1:D:2630:VAL:HG23	2.15	0.45
1:D:4090:LYS:NZ	1:D:4115:SER:OG	2.48	0.45
1:C:223:PHE:CE2	1:C:230:CYS:HB2	2.51	0.45
1:C:530:ILE:HG21	1:C:540:PHE:HE2	1.81	0.45
1:C:717:ASP:HB2	1:C:722:TRP:CD1	2.52	0.45
1:C:2694:GLU:OE2	1:C:2697:ARG:NE	2.40	0.45
1:C:2948:THR:HG22	1:C:2949:SER:N	2.29	0.45
1:A:132:ALA:HA	1:A:193:ALA:O	2.16	0.45
1:A:1450:VAL:HG22	1:A:1552:VAL:HG22	1.97	0.45
1:A:2500:ALA:HB2	1:A:2553:TYR:CD1	2.49	0.45
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.97	0.45
1:A:2927:LEU:HD23	1:A:2927:LEU:HA	1.79	0.45
1:A:3078:ARG:HG2	1:A:3082:LYS:NZ	2.31	0.45
1:A:4738:ALA:HA	1:A:4743:MET:HG2	1.99	0.45
2:H:11:ASP:OD1	2:H:12:GLY:N	2.48	0.45
2:H:42:ARG:HH21	1:D:1780:PRO:HB2	1.80	0.45
1:B:110:ARG:HH11	1:B:115:ARG:HE	1.62	0.45
1:B:1008:SER:CB	1:B:1017:ARG:HB3	2.46	0.45
1:B:1450:VAL:HG22	1:B:1552:VAL:HG22	1.97	0.45
1:B:2283:ASN:ND2	1:B:2286:LEU:HG	2.31	0.45
1:B:2626:LEU:O	1:B:2630:VAL:HG23	2.15	0.45
1:B:2781:VAL:HB	1:B:2789:PRO:HG3	1.98	0.45
1:B:3354:LEU:HD12	1:B:3415:TYR:CD2	2.45	0.45
1:B:3354:LEU:O	1:B:3358:PHE:HB2	2.15	0.45
1:B:4232:GLU:OE2	1:B:5017:ARG:NH1	2.43	0.45
1:D:140:ASP:OD2	1:D:142:THR:OG1	2.31	0.45
1:D:1690:ASP:O	1:D:1693:GLN:HB2	2.16	0.45
1:D:1808:ARG:HH11	1:D:1853:ILE:HG22	1.81	0.45
1:D:2199:ARG:NH2	1:D:3861:GLU:OE2	2.49	0.45
1:D:2858:GLN:N	1:D:2859:PRO:HD3	2.31	0.45
1:D:3154:ASP:HA	1:D:3202:PRO:HB3	1.98	0.45
1:D:3308:THR:H	1:D:3311:HIS:HB2	1.81	0.45
1:D:4241:THR:O	1:D:4245:MET:HE3	2.15	0.45
1:D:4998:LYS:HB3	1:D:5003:HIS:CE1	2.51	0.45
1:C:1521:ASP:HB3	1:C:1524:THR:OG1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1629:GLN:NE2	1:C:1631:GLN:HB3	2.31	0.45
1:C:2981:VAL:HA	1:C:2985:ARG:HE	1.80	0.45
1:C:3758:MET:HB3	1:C:3762:ARG:HH12	1.80	0.45
1:C:3965:LEU:O	1:C:3969:ILE:HG12	2.16	0.45
1:C:3991:GLY:HA2	1:C:3994:HIS:HD1	1.80	0.45
1:A:445:LEU:O	1:A:449:ILE:HD12	2.16	0.45
1:A:717:ASP:HB3	1:A:720:HIS:H	1.81	0.45
1:A:1294:PRO:HB3	1:A:1549:PHE:CE1	2.49	0.45
1:A:1629:GLN:NE2	1:A:1631:GLN:HB3	2.31	0.45
1:A:1654:SER:HB3	1:A:1704:PRO:HD3	1.98	0.45
1:A:2475:GLN:CD	1:A:2475:GLN:H	2.24	0.45
1:A:2807:TRP:HA	1:A:2810:LYS:HG2	1.98	0.45
1:A:3077:ALA:HB1	1:A:3156:VAL:HG21	1.97	0.45
1:A:3154:ASP:HA	1:A:3202:PRO:HB3	1.98	0.45
1:A:3540:TYR:O	1:A:3543:LYS:HD2	2.16	0.45
1:A:3604:TYR:HD2	1:A:3608:GLN:HE22	1.63	0.45
1:A:4020:GLN:O	1:A:4024:VAL:HG23	2.17	0.45
1:A:4148:THR:HG22	1:A:4152:GLU:OE2	2.16	0.45
1:B:232:THR:CG2	1:B:257:ARG:HE	2.29	0.45
1:B:1450:VAL:HB	1:B:1516:ILE:HD13	1.98	0.45
1:B:4085:ARG:NH2	1:B:4122:MET:HE2	2.31	0.45
1:B:4090:LYS:NZ	1:B:4115:SER:OG	2.48	0.45
1:D:223:PHE:CE2	1:D:230:CYS:HB2	2.51	0.45
1:D:418:LEU:HD13	1:D:493:ARG:HB2	1.98	0.45
1:D:537:CYS:SG	1:D:570:GLU:HB3	2.56	0.45
1:D:1260:MET:O	1:D:1260:MET:HG3	2.16	0.45
1:D:1297:PHE:CD2	1:D:1522:LEU:HA	2.51	0.45
1:D:1452:TRP:CZ3	1:D:1550:PRO:HG3	2.51	0.45
1:D:2284:ASN:ND2	1:D:3856:LEU:HD23	2.32	0.45
1:D:2475:GLN:CD	1:D:2475:GLN:H	2.24	0.45
1:D:3283:ARG:HH12	1:D:3287:ARG:NH2	2.15	0.45
1:D:3716:LEU:HD13	1:D:3793:MET:HG3	1.97	0.45
1:D:4661:TYR:OH	1:D:4786:ASP:OD2	2.31	0.45
1:C:168:ASP:OD1	1:C:201:ASN:ND2	2.49	0.45
1:C:303:ASP:H	1:C:306:LYS:HE3	1.80	0.45
1:C:1260:MET:O	1:C:1260:MET:HG3	2.16	0.45
1:C:2566:ALA:HA	1:C:2569:PHE:HD2	1.80	0.45
1:C:3213:TYR:CD2	1:C:3302:PRO:HG2	2.51	0.45
1:C:4640:GLU:H	1:C:4640:GLU:CD	2.23	0.45
1:C:4998:LYS:HB3	1:C:5003:HIS:CE1	2.51	0.45
1:A:772:ASN:N	1:A:1470:ARG:HH22	2.09	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:986:ASP:HA	1:A:1039:LEU:HD13	1.99	0.45
1:A:1125:ASN:H	1:A:1128:ARG:NH1	2.14	0.45
1:A:1452:TRP:CZ3	1:A:1550:PRO:HG3	2.51	0.45
1:A:2434:GLY:O	1:A:2508:ARG:HG2	2.17	0.45
1:A:2761:TYR:HB3	1:A:2929:PHE:CZ	2.51	0.45
1:A:2781:VAL:HB	1:A:2789:PRO:HG3	1.98	0.45
1:A:3283:ARG:HH12	1:A:3287:ARG:NH2	2.15	0.45
1:A:4954:MET:HE3	3:A:5301:ATP:C8	2.51	0.45
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.51	0.45
1:B:2566:ALA:HA	1:B:2569:PHE:HD2	1.80	0.45
1:B:2981:VAL:HA	1:B:2985:ARG:HE	1.81	0.45
1:B:3368:ARG:HG2	1:B:3371:LYS:HZ2	1.81	0.45
1:B:4189:ARG:HB3	1:B:5031:GLN:HE22	1.81	0.45
1:D:13:PHE:CE1	1:D:164:ARG:HG2	2.51	0.45
1:D:971:ASP:OD2	1:D:974:HIS:HB3	2.16	0.45
1:D:1470:ARG:HB3	1:D:1491:ASN:CG	2.41	0.45
1:C:743:VAL:HG21	1:C:801:LYS:HE2	1.99	0.45
1:C:815:VAL:O	1:C:1007:TYR:OH	2.28	0.45
1:C:929:LEU:O	1:C:933:LEU:HG	2.16	0.45
1:C:2190:VAL:HG13	1:C:2194:HIS:ND1	2.31	0.45
1:C:2237:CYS:O	1:C:2240:CYS:HB2	2.16	0.45
1:C:2292:GLU:OE2	1:C:2292:GLU:N	2.34	0.45
1:C:2499:LYS:NZ	1:C:2529:ASP:OD1	2.44	0.45
1:C:2609:ALA:O	1:C:2612[A]:ARG:NH1	2.48	0.45
1:C:3722:TYR:CD2	1:C:3782:MET:HE3	2.50	0.45
1:C:4189:ARG:HB3	1:C:5031:GLN:HE22	1.81	0.45
1:A:2012:PHE:HB2	1:A:2018:GLU:HA	1.96	0.45
1:A:2138:LEU:HD13	1:A:3658:LYS:HG3	1.99	0.45
1:A:2480:GLY:O	1:A:2484:ALA:N	2.47	0.45
1:A:4713:SER:OG	1:A:4775:TYR:OH	2.30	0.45
1:B:445:LEU:O	1:B:449:ILE:HD12	2.16	0.45
1:B:1131:ARG:HD3	1:B:1139:PHE:HB2	1.99	0.45
1:B:2017:ASP:HB2	1:B:2020:ASP:HB3	1.99	0.45
1:B:2190:VAL:HG13	1:B:2194:HIS:ND1	2.31	0.45
1:B:3402:CYS:HB3	1:B:3458:PHE:CE1	2.51	0.45
1:B:3442:PHE:CZ	1:B:3514:LEU:HD22	2.52	0.45
1:B:3937:TYR:HD1	1:B:3940:LYS:HZ1	1.63	0.45
1:D:132:ALA:HA	1:D:193:ALA:O	2.17	0.45
1:D:986:ASP:HA	1:D:1039:LEU:HD13	1.99	0.45
1:D:1450:VAL:HG22	1:D:1552:VAL:HG22	1.97	0.45
1:D:1478:ASP:HB3	1:D:1482:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2138:LEU:HD13	1:D:3658:LYS:HG3	1.99	0.45
1:D:2313:LEU:HD11	1:D:2418:LEU:HD21	1.97	0.45
1:D:4232:GLU:OE1	1:D:5019:TRP:NE1	2.42	0.45
1:D:4700:GLN:HA	1:D:4703:ARG:HG3	1.99	0.45
1:D:4738:ALA:HA	1:D:4743:MET:HG2	1.99	0.45
1:C:647:ASN:ND2	1:C:822:ARG:HB3	2.31	0.45
1:C:716:PHE:HE1	1:C:764:VAL:HG11	1.80	0.45
1:C:717:ASP:HB3	1:C:720:HIS:H	1.81	0.45
1:C:2284:ASN:ND2	1:C:3856:LEU:HD23	2.32	0.45
1:C:2929:PHE:CE1	1:C:2932:MET:HE2	2.52	0.45
1:C:3391:GLU:C	1:C:3395:ARG:HE	2.25	0.45
1:C:3442:PHE:CZ	1:C:3514:LEU:HD22	2.52	0.45
1:C:3459:VAL:HG13	1:C:3464:ILE:HG13	1.99	0.45
1:C:3540:TYR:O	1:C:3543:LYS:HD2	2.16	0.45
1:A:168:ASP:OD1	1:A:201:ASN:ND2	2.49	0.45
1:A:213:TYR:HA	1:A:339:ILE:O	2.17	0.45
1:A:348:VAL:HG23	1:A:388:LEU:HD13	1.99	0.45
1:A:1008:SER:CB	1:A:1017:ARG:HB3	2.46	0.45
1:A:1470:ARG:HB3	1:A:1491:ASN:CG	2.41	0.45
1:A:2017:ASP:HB2	1:A:2020:ASP:HB3	1.99	0.45
1:A:2284:ASN:ND2	1:A:3856:LEU:HD23	2.32	0.45
1:A:2626:LEU:O	1:A:2630:VAL:HG23	2.15	0.45
1:A:2676:ARG:O	1:A:2680:TRP:HD1	2.00	0.45
1:B:103:TYR:CE1	1:B:163:VAL:HA	2.52	0.45
1:B:495:ASN:OD1	1:B:523:TYR:OH	2.30	0.45
1:B:1128:ARG:HD2	1:B:1130:GLN:O	2.17	0.45
1:B:1568:LYS:HG2	1:B:1589:PRO:HG3	1.99	0.45
1:B:1808:ARG:HH11	1:B:1853:ILE:HG22	1.80	0.45
1:B:2233:CYS:HB3	1:B:2237:CYS:HB2	1.72	0.45
1:B:3308:THR:H	1:B:3311:HIS:HB2	1.81	0.45
1:D:717:ASP:HB2	1:D:722:TRP:CD1	2.52	0.45
1:D:929:LEU:O	1:D:933:LEU:HG	2.17	0.45
1:D:1257:VAL:HG22	1:D:1272:LEU:HD12	1.99	0.45
1:D:2248:ARG:HD3	1:D:2286:LEU:HD21	1.99	0.45
1:D:2434:GLY:O	1:D:2508:ARG:HG2	2.17	0.45
1:D:2540:THR:O	1:D:2543:THR:OG1	2.27	0.45
1:D:2799:GLU:O	1:D:2802:LYS:HB2	2.16	0.45
1:D:3459:VAL:HG13	1:D:3464:ILE:HG13	1.99	0.45
1:D:4071:ILE:HA	1:D:4074:SER:HB3	1.98	0.45
1:C:284:HIS:HB3	1:C:287:THR:OG1	2.17	0.45
1:C:537:CYS:SG	1:C:570:GLU:HB3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:683:ARG:HB2	1:C:782:SER:O	2.17	0.45
1:C:1131:ARG:HD3	1:C:1139:PHE:HB2	1.99	0.45
1:C:2024:PRO:O	1:C:2027:ILE:HG22	2.16	0.45
1:C:4231:MET:HA	1:C:4231:MET:CE	2.47	0.45
1:A:483:MET:O	1:A:487:VAL:HG23	2.17	0.45
1:A:537:CYS:SG	1:A:570:GLU:HB3	2.56	0.45
1:A:683:ARG:HB2	1:A:782:SER:O	2.17	0.45
1:A:705:ASN:ND2	1:A:709:ASP:O	2.50	0.45
1:A:1470:ARG:NH2	1:A:1471:ALA:O	2.35	0.45
1:A:1808:ARG:HH11	1:A:1853:ILE:HG22	1.81	0.45
1:A:2858:GLN:N	1:A:2859:PRO:HD3	2.31	0.45
1:A:3442:PHE:CZ	1:A:3514:LEU:HD22	2.52	0.45
1:A:4071:ILE:HA	1:A:4074:SER:HB3	1.98	0.45
2:E:18:ARG:NH1	2:E:51:GLY:HA3	2.29	0.45
1:B:483:MET:O	1:B:487:VAL:HG23	2.17	0.45
1:B:1125:ASN:H	1:B:1128:ARG:NH1	2.14	0.45
1:B:1521:ASP:HB3	1:B:1524:THR:OG1	2.16	0.45
1:B:1690:ASP:O	1:B:1693:GLN:HB2	2.16	0.45
1:B:2248:ARG:HD3	1:B:2286:LEU:HD21	1.99	0.45
1:B:4020:GLN:O	1:B:4024:VAL:HG23	2.17	0.45
1:B:4701:TRP:CZ2	1:B:4781:GLY:HA3	2.52	0.45
1:D:103:TYR:CE1	1:D:163:VAL:HA	2.52	0.45
1:D:262:LEU:HD21	1:D:280:LEU:HD22	1.98	0.45
1:D:445:LEU:O	1:D:449:ILE:HD12	2.16	0.45
1:D:1470:ARG:NH2	1:D:1471:ALA:O	2.35	0.45
1:D:1607:ARG:HG2	1:D:1608:MET:N	2.32	0.45
1:D:1658:ASP:N	1:D:1658:ASP:OD1	2.48	0.45
1:D:1690:ASP:HB3	1:D:1693:GLN:HG3	1.98	0.45
1:D:1982:ARG:HH21	1:D:1985:THR:HG21	1.82	0.45
1:D:2781:VAL:HB	1:D:2789:PRO:HG3	1.98	0.45
1:D:3139:VAL:O	1:D:3143:LEU:HD23	2.16	0.45
1:D:3213:TYR:CD2	1:D:3302:PRO:HG2	2.51	0.45
1:D:4020:GLN:O	1:D:4024:VAL:HG23	2.17	0.45
1:D:4701:TRP:CZ2	1:D:4781:GLY:HA3	2.52	0.45
1:D:4711:PHE:HB3	1:D:4712:PRO:CD	2.44	0.45
1:C:705:ASN:ND2	1:C:709:ASP:O	2.50	0.45
1:C:1607:ARG:HG2	1:C:1608:MET:N	2.32	0.45
1:C:2858:GLN:N	1:C:2859:PRO:HD3	2.31	0.45
1:C:3308:THR:H	1:C:3311:HIS:HB2	1.81	0.45
1:C:4020:GLN:O	1:C:4024:VAL:HG23	2.17	0.45
1:A:717:ASP:HB2	1:A:722:TRP:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:895:PRO:HD2	1:A:903:LEU:HD23	1.99	0.45
1:A:1297:PHE:CD2	1:A:1522:LEU:HA	2.51	0.45
1:A:1478:ASP:HB3	1:A:1482:ASN:HB3	1.99	0.45
1:A:1607:ARG:HG2	1:A:1608:MET:N	2.32	0.45
1:A:1690:ASP:HB3	1:A:1693:GLN:CG	2.47	0.45
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.17	0.45
1:A:4003:LEU:HD23	1:A:4009:GLN:HB3	1.99	0.45
1:A:4085:ARG:NH2	1:A:4122:MET:HE2	2.31	0.45
1:A:4189:ARG:NH2	1:A:5032:TYR:OH	2.46	0.45
1:A:4701:TRP:CZ2	1:A:4781:GLY:HA3	2.52	0.45
1:A:4888:TYR:CD1	1:B:4914:VAL:HG13	2.52	0.45
1:B:132:ALA:HA	1:B:193:ALA:O	2.17	0.45
1:B:1260:MET:HG3	1:B:1260:MET:O	2.16	0.45
1:B:1294:PRO:HB3	1:B:1549:PHE:CE1	2.49	0.45
1:B:2284:ASN:ND2	1:B:3856:LEU:HD23	2.32	0.45
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.17	0.45
1:B:2434:GLY:O	1:B:2508:ARG:HG2	2.17	0.45
1:B:2500:ALA:HB2	1:B:2553:TYR:CD1	2.49	0.45
1:B:2563:THR:HG22	1:B:2606:CYS:HA	1.99	0.45
1:B:2609:ALA:O	1:B:2612[A]:ARG:NH1	2.48	0.45
1:B:2679:PHE:O	1:B:2683:PHE:HB3	2.17	0.45
1:B:3226:GLU:O	1:B:3227:ARG:HG2	2.17	0.45
1:B:3459:VAL:HG13	1:B:3464:ILE:HG13	1.99	0.45
1:B:3716:LEU:HD13	1:B:3793:MET:HG3	1.97	0.45
1:B:4003:LEU:HD23	1:B:4009:GLN:HB3	1.99	0.45
1:B:4138:ASP:O	1:B:4142:ASN:ND2	2.37	0.45
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.17	0.45
1:D:683:ARG:HB2	1:D:782:SER:O	2.17	0.45
1:D:717:ASP:HB3	1:D:720:HIS:H	1.81	0.45
1:D:1128:ARG:HD2	1:D:1130:GLN:O	2.17	0.45
1:D:1450:VAL:HB	1:D:1516:ILE:HD13	1.98	0.45
1:D:1629:GLN:NE2	1:D:1631:GLN:HB3	2.31	0.45
1:D:4866:SER:OG	1:D:4868:ASP:OD1	2.31	0.45
1:C:103:TYR:CE1	1:C:163:VAL:HA	2.52	0.45
1:C:418:LEU:HD13	1:C:493:ARG:HB2	1.98	0.45
1:C:986:ASP:HA	1:C:1039:LEU:HD13	1.99	0.45
1:C:1690:ASP:O	1:C:1693:GLN:HB2	2.16	0.45
1:C:2138:LEU:HD13	1:C:3658:LYS:HG3	1.99	0.45
1:C:2248:ARG:HD3	1:C:2286:LEU:HD21	1.99	0.45
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.17	0.45
1:C:2781:VAL:HB	1:C:2789:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3154:ASP:HA	1:C:3202:PRO:HB3	1.98	0.45
1:C:3283:ARG:HH12	1:C:3287:ARG:NH2	2.15	0.45
1:C:4700:GLN:HA	1:C:4703:ARG:HG3	1.99	0.45
1:A:103:TYR:CE1	1:A:163:VAL:HA	2.52	0.45
1:A:155:LYS:NZ	1:D:225:GLY:HA2	2.32	0.45
1:A:2248:ARG:HD3	1:A:2286:LEU:HD21	1.99	0.45
1:A:2283:ASN:ND2	1:A:2286:LEU:HG	2.31	0.45
1:A:4189:ARG:HB3	1:A:5031:GLN:HE22	1.81	0.45
2:F:18:ARG:NH1	2:F:51:GLY:HA3	2.29	0.45
1:B:683:ARG:HB2	1:B:782:SER:O	2.17	0.45
1:B:1607:ARG:HG2	1:B:1608:MET:N	2.32	0.45
1:B:2268[A]:GLN:H	1:B:2268[A]:GLN:HG3	1.51	0.45
1:B:3546:ASP:O	1:B:3549:VAL:HG22	2.17	0.45
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	1.99	0.45
1:B:4067:LYS:HB3	1:B:4103:PHE:HZ	1.80	0.45
1:B:4231:MET:CE	1:B:4231:MET:HA	2.47	0.45
1:D:213:TYR:HB3	1:D:273:HIS:CD2	2.52	0.45
1:D:743:VAL:HG21	1:D:801:LYS:HE2	1.99	0.45
1:D:1008:SER:CB	1:D:1017:ARG:HB3	2.46	0.45
1:D:1448:VAL:HG22	1:D:1554:VAL:HG23	1.99	0.45
1:D:3758:MET:HB3	1:D:3762:ARG:HH12	1.80	0.45
1:D:4148:THR:HG22	1:D:4152:GLU:OE2	2.16	0.45
1:D:4904:PRO:HG3	1:D:4913:ARG:NH1	2.32	0.45
1:C:213:TYR:HA	1:C:339:ILE:O	2.17	0.45
1:C:445:LEU:O	1:C:449:ILE:HD12	2.16	0.45
1:C:1008:SER:CB	1:C:1017:ARG:HB3	2.46	0.45
1:C:2475:GLN:H	1:C:2475:GLN:CD	2.25	0.45
1:C:2679:PHE:O	1:C:2683:PHE:HB3	2.17	0.45
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.17	0.45
1:A:221:ARG:HB2	1:A:391:THR:OG1	2.17	0.45
1:A:232:THR:CG2	1:A:257:ARG:HE	2.29	0.45
1:A:262:LEU:HD21	1:A:280:LEU:HD22	1.98	0.45
1:A:1257:VAL:HG22	1:A:1272:LEU:HD12	1.99	0.45
1:A:1452:TRP:HE1	1:A:1518:CYS:HB3	1.82	0.45
1:A:2237:CYS:O	1:A:2240:CYS:HB2	2.16	0.45
1:A:2563:THR:HG22	1:A:2606:CYS:HA	1.98	0.45
1:A:2719:TYR:HE2	1:A:2953:LYS:HA	1.82	0.45
1:A:3459:VAL:HG13	1:A:3464:ILE:HG13	1.99	0.45
1:A:4711:PHE:HB3	1:A:4712:PRO:CD	2.44	0.45
1:A:4998:LYS:NZ	1:A:5002:GLU:O	2.50	0.45
1:B:348:VAL:HG23	1:B:388:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3283:ARG:HH12	1:B:3287:ARG:NH2	2.15	0.45
1:D:1130:GLN:NE2	1:D:1136:SER:HB2	2.31	0.45
1:D:1131:ARG:HD3	1:D:1139:PHE:HB2	1.99	0.45
1:D:1690:ASP:HB3	1:D:1693:GLN:CD	2.42	0.45
1:D:2017:ASP:HB2	1:D:2020:ASP:HB3	1.99	0.45
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.17	0.45
1:D:3036:LYS:HD2	1:D:3076:ASP:N	2.32	0.45
1:D:3226:GLU:O	1:D:3227:ARG:HG2	2.17	0.45
1:D:3604:TYR:HD2	1:D:3608:GLN:HE22	1.63	0.45
1:D:4694:ASP:HA	1:D:4700:GLN:HE22	1.82	0.45
1:C:822:ARG:HE	1:C:823:LEU:H	1.65	0.45
1:C:883:ALA:HA	1:C:886:ARG:HG3	2.00	0.45
1:C:1690:ASP:HB3	1:C:1693:GLN:CD	2.42	0.45
1:C:2251:PHE:CG	1:C:2286:LEU:HD22	2.52	0.45
1:C:2802:LYS:HD3	1:C:2802:LYS:HA	1.67	0.45
1:C:3015:LEU:O	1:C:3019:SER:OG	2.30	0.45
1:C:3139:VAL:O	1:C:3143:LEU:HD23	2.16	0.45
1:C:4904:PRO:HG3	1:C:4913:ARG:NH1	2.32	0.45
1:A:284:HIS:HB3	1:A:287:THR:OG1	2.17	0.44
1:A:284:HIS:HB3	1:A:287:THR:HG1	1.82	0.44
1:A:830:ARG:NH1	1:A:832:GLU:HB2	2.30	0.44
1:A:1131:ARG:HD3	1:A:1139:PHE:HB2	1.99	0.44
1:A:1690:ASP:HB3	1:A:1693:GLN:HG3	1.98	0.44
1:A:2867:LEU:HD22	1:A:2928:LYS:HZ1	1.82	0.44
1:A:3226:GLU:O	1:A:3227:ARG:HG2	2.17	0.44
1:A:4904:PRO:HG3	1:A:4913:ARG:NH1	2.32	0.44
2:E:75:THR:HG23	2:E:98:VAL:HG22	1.98	0.44
2:F:25:HIS:O	2:F:102:GLU:HB2	2.17	0.44
2:F:75:THR:HG23	2:F:98:VAL:HG22	1.98	0.44
1:B:213:TYR:HB3	1:B:273:HIS:CD2	2.52	0.44
1:B:537:CYS:SG	1:B:570:GLU:HB3	2.56	0.44
1:B:683:ARG:HH12	1:B:717:ASP:HB2	1.82	0.44
1:B:1654:SER:HB3	1:B:1704:PRO:HD3	1.98	0.44
1:B:2138:LEU:HD13	1:B:3658:LYS:HG3	1.99	0.44
1:B:2223:ILE:HD12	1:B:2263:ILE:HG22	2.00	0.44
1:B:3391:GLU:C	1:B:3395:ARG:HE	2.25	0.44
1:D:221:ARG:HB2	1:D:391:THR:OG1	2.17	0.44
1:D:526:LEU:HD12	1:D:526:LEU:HA	1.87	0.44
1:D:573:GLU:O	1:D:577:ILE:HG23	2.18	0.44
1:D:1452:TRP:HE1	1:D:1518:CYS:HB3	1.82	0.44
1:D:2563:THR:HG22	1:D:2606:CYS:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2929:PHE:CE1	1:D:2932:MET:HE2	2.52	0.44
1:D:3442:PHE:CZ	1:D:3514:LEU:HD22	2.52	0.44
1:D:4087:LEU:CD2	1:D:4124:ASN:HD22	2.31	0.44
1:D:4134:GLU:HB3	1:D:4135:PRO:HD3	1.99	0.44
1:C:23:GLN:NE2	1:C:34:LYS:HD2	2.32	0.44
1:C:203:ASN:HA	1:C:204:PRO:HD3	1.83	0.44
1:C:232:THR:CG2	1:C:257:ARG:HE	2.29	0.44
1:C:483:MET:O	1:C:487:VAL:HG23	2.17	0.44
1:C:1257:VAL:HG22	1:C:1272:LEU:HD12	1.99	0.44
1:C:1452:TRP:HE1	1:C:1518:CYS:HB3	1.82	0.44
1:C:1654:SER:HB3	1:C:1704:PRO:HD3	1.99	0.44
1:C:2017:ASP:HB2	1:C:2020:ASP:HB3	1.99	0.44
1:C:2088:GLU:N	1:C:2092:GLN:OE1	2.50	0.44
1:C:2690:LYS:HD3	1:C:2691:TYR:N	2.32	0.44
1:C:4232:GLU:OE2	1:C:5017:ARG:NH1	2.42	0.44
1:A:719:LEU:HD11	2:E:7:ILE:HA	1.99	0.44
1:A:743:VAL:HG21	1:A:801:LYS:HE2	1.99	0.44
1:A:1256:GLU:HB2	1:A:1275:ARG:HG3	1.99	0.44
1:A:1568:LYS:HG2	1:A:1589:PRO:HG3	1.99	0.44
1:A:2088:GLU:N	1:A:2092:GLN:OE1	2.50	0.44
1:A:2190:VAL:HG13	1:A:2194:HIS:ND1	2.31	0.44
1:A:2239:PHE:CD2	1:A:2250:MET:HE3	2.53	0.44
1:A:2369[B]:ARG:HA	1:A:2369[B]:ARG:HE	1.83	0.44
1:A:2679:PHE:O	1:A:2683:PHE:HB3	2.17	0.44
1:A:3590:GLU:HA	1:A:3593:VAL:HG22	1.99	0.44
1:A:4045:VAL:O	1:A:4049:VAL:HG23	2.18	0.44
1:A:4995:LEU:HD21	1:A:5007:GLU:HB3	1.99	0.44
2:E:25:HIS:O	2:E:102:GLU:HB2	2.17	0.44
1:B:140:ASP:OD2	1:B:142:THR:OG1	2.31	0.44
1:B:717:ASP:HB2	1:B:722:TRP:CD1	2.52	0.44
1:B:1690:ASP:HB3	1:B:1693:GLN:CG	2.47	0.44
1:B:3416:VAL:HG22	1:B:3423:TRP:HZ3	1.82	0.44
1:B:3533:ILE:O	1:B:3537:LYS:HG2	2.18	0.44
1:B:3540:TYR:O	1:B:3543:LYS:HD2	2.16	0.44
1:B:4738:ALA:HA	1:B:4743:MET:HG2	1.98	0.44
1:D:27:THR:OG1	1:D:32:GLN:OE1	2.28	0.44
1:D:495:ASN:OD1	1:D:523:TYR:OH	2.30	0.44
1:D:2369[B]:ARG:HA	1:D:2369[B]:ARG:HE	1.83	0.44
1:D:2679:PHE:O	1:D:2683:PHE:HB3	2.17	0.44
1:D:4189:ARG:HB3	1:D:5031:GLN:HE22	1.81	0.44
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:573:GLU:O	1:C:577:ILE:HG23	2.18	0.44
1:C:1100:MET:HE2	1:C:1100:MET:HB2	1.79	0.44
1:C:1125:ASN:H	1:C:1128:ARG:NH1	2.14	0.44
1:C:1128:ARG:HD2	1:C:1130:GLN:O	2.17	0.44
1:C:1286:MET:HB3	1:C:1462:MET:HA	1.99	0.44
1:C:1490:SER:OG	1:C:1492:CYS:O	2.34	0.44
1:C:1575:LEU:HG	1:C:1579:MET:SD	2.57	0.44
1:C:2960:LEU:HD12	1:C:3042:LEU:HD11	1.99	0.44
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.17	0.44
1:C:4003:LEU:HD23	1:C:4009:GLN:HB3	1.99	0.44
1:C:4085:ARG:NH2	1:C:4122:MET:HE2	2.31	0.44
1:C:4694:ASP:HA	1:C:4700:GLN:HE22	1.82	0.44
1:C:4701:TRP:CZ2	1:C:4781:GLY:HA3	2.52	0.44
1:C:4866:SER:OG	1:C:4868:ASP:OD1	2.31	0.44
1:A:213:TYR:HB3	1:A:273:HIS:CD2	2.52	0.44
1:A:877:ASN:HA	1:A:880:GLU:HG2	2.00	0.44
1:A:1448:VAL:HG22	1:A:1554:VAL:HG23	1.99	0.44
1:A:1450:VAL:HB	1:A:1516:ILE:HD13	1.98	0.44
1:A:1943:LEU:HD13	1:A:2101:MET:HE2	1.99	0.44
1:A:2512:ILE:HD13	1:A:2565:CYS:SG	2.58	0.44
1:A:2690:LYS:HD3	1:A:2691:TYR:N	2.32	0.44
1:A:3036:LYS:HD3	1:A:3039:ILE:HD11	2.00	0.44
1:A:3875:MET:HB3	1:A:3878:ASP:HB3	1.99	0.44
1:A:4694:ASP:HA	1:A:4700:GLN:HE22	1.82	0.44
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.17	0.44
1:B:213:TYR:HA	1:B:339:ILE:O	2.17	0.44
1:B:284:HIS:HB3	1:B:287:THR:OG1	2.17	0.44
1:B:877:ASN:HA	1:B:880:GLU:HG2	2.00	0.44
1:B:1641:ILE:O	1:B:1645:ASN:N	2.51	0.44
1:B:2088:GLU:N	1:B:2092:GLN:OE1	2.50	0.44
1:B:2369[B]:ARG:HA	1:B:2369[B]:ARG:HE	1.83	0.44
1:B:2960:LEU:HD12	1:B:3042:LEU:HD11	1.99	0.44
1:B:3873:LYS:HA	1:B:3873:LYS:HD3	1.71	0.44
1:D:20:VAL:HG12	1:D:204:PRO:HA	2.00	0.44
1:D:1496:TRP:HB3	1:D:1499:ASP:OD2	2.18	0.44
1:D:1575:LEU:HG	1:D:1579:MET:SD	2.57	0.44
1:D:2024:PRO:O	1:D:2027:ILE:HG22	2.16	0.44
1:D:2251:PHE:CG	1:D:2286:LEU:HD22	2.52	0.44
1:D:3199:ALA:O	1:D:3283:ARG:NE	2.49	0.44
1:D:4003:LEU:HD23	1:D:4009:GLN:HB3	1.99	0.44
1:D:4231:MET:HA	1:D:4231:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1496:TRP:HB3	1:C:1499:ASP:OD2	2.18	0.44
1:C:1690:ASP:HB3	1:C:1693:GLN:CG	2.47	0.44
1:C:2673:HIS:CD2	1:C:2909:ASP:HB2	2.53	0.44
1:C:3226:GLU:O	1:C:3227:ARG:HG2	2.17	0.44
1:A:223:PHE:CE2	1:A:230:CYS:HB2	2.51	0.44
1:A:790:ARG:NH1	1:A:1624:LEU:O	2.47	0.44
1:A:1128:ARG:HD2	1:A:1130:GLN:O	2.17	0.44
1:A:2369[A]:ARG:HE	1:A:2369[A]:ARG:HB2	1.69	0.44
1:A:2805:TYR:O	1:A:2809:ILE:HG12	2.18	0.44
1:A:3069:HIS:CE1	1:A:3142:THR:HG1	2.25	0.44
1:A:3695:PRO:HB3	1:A:3699:HIS:HB3	1.98	0.44
2:E:11:ASP:OD1	2:E:12:GLY:N	2.48	0.44
2:G:25:HIS:O	2:G:102:GLU:HB2	2.17	0.44
1:B:1452:TRP:HE1	1:B:1518:CYS:HB3	1.82	0.44
1:B:2239:PHE:CD2	1:B:2250:MET:HE3	2.53	0.44
1:B:2673:HIS:CD2	1:B:2909:ASP:HB2	2.53	0.44
1:B:3695:PRO:HB3	1:B:3699:HIS:HB3	1.98	0.44
1:B:3775:ALA:O	1:B:3779:VAL:HG23	2.17	0.44
1:B:4694:ASP:HA	1:B:4700:GLN:HE22	1.82	0.44
1:B:4995:LEU:HD21	1:B:5007:GLU:HB3	1.99	0.44
1:D:213:TYR:HA	1:D:339:ILE:O	2.17	0.44
1:D:1654:SER:HB3	1:D:1704:PRO:HD3	1.98	0.44
1:D:1869:GLU:HA	1:D:1872:THR:HG23	2.00	0.44
1:D:2233:CYS:HB3	1:D:2237:CYS:HB2	1.72	0.44
1:D:2676:ARG:O	1:D:2680:TRP:HD1	2.00	0.44
1:D:2690:LYS:HD3	1:D:2691:TYR:N	2.32	0.44
1:D:2757:LYS:HE3	1:D:2757:LYS:HB3	1.84	0.44
1:D:3391:GLU:C	1:D:3395:ARG:HE	2.25	0.44
1:D:3513:THR:HA	1:D:3516:LYS:HZ2	1.83	0.44
1:D:3955:MET:HE1	1:D:4016:LEU:HA	1.99	0.44
1:C:107:ILE:N	1:C:148:TRP:O	2.26	0.44
1:C:213:TYR:HB3	1:C:273:HIS:CD2	2.52	0.44
1:C:580:GLU:OE1	1:C:624:ASN:ND2	2.51	0.44
1:C:772:ASN:N	1:C:1470:ARG:HH22	2.09	0.44
1:C:1641:ILE:O	1:C:1645:ASN:N	2.51	0.44
1:C:2563:THR:HG22	1:C:2606:CYS:HA	1.98	0.44
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.48	0.44
1:C:2719:TYR:HE2	1:C:2953:LYS:HA	1.82	0.44
1:A:580:GLU:OE1	1:A:624:ASN:ND2	2.51	0.44
1:A:1105:ALA:O	1:A:1189:LEU:N	2.47	0.44
1:A:1260:MET:O	1:A:1260:MET:HG3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1496:TRP:HB3	1:A:1499:ASP:OD2	2.18	0.44
1:A:2223:ILE:HD11	1:A:2229:VAL:HG21	1.99	0.44
1:A:2757:LYS:HE3	1:A:2757:LYS:HB3	1.84	0.44
1:A:3546:ASP:O	1:A:3549:VAL:HG22	2.17	0.44
1:A:4231:MET:HA	1:A:4231:MET:CE	2.47	0.44
2:F:25:HIS:HB3	2:F:102:GLU:HB2	1.99	0.44
1:B:498:THR:HA	1:B:553:ARG:HH22	1.83	0.44
1:B:971:ASP:OD2	1:B:974:HIS:HB3	2.16	0.44
1:B:1008:SER:HB2	1:B:1017:ARG:NE	2.33	0.44
1:B:1286:MET:HB3	1:B:1462:MET:HA	1.99	0.44
1:B:2223:ILE:HD11	1:B:2229:VAL:HG21	1.99	0.44
1:B:2858:GLN:N	1:B:2859:PRO:HD3	2.31	0.44
1:B:3445:TRP:HD1	1:B:3451:PHE:HD2	1.66	0.44
1:D:883:ALA:HA	1:D:886:ARG:HG3	1.99	0.44
1:D:895:PRO:HD2	1:D:903:LEU:HD23	1.99	0.44
1:D:1568:LYS:HG2	1:D:1589:PRO:HG3	1.99	0.44
1:D:2464:ASP:OD1	1:D:2465:ASP:N	2.51	0.44
1:D:3316:LEU:O	1:D:3320:LEU:HG	2.17	0.44
1:C:1448:VAL:HG22	1:C:1554:VAL:HG23	1.99	0.44
1:C:1982:ARG:HH21	1:C:1985:THR:HG21	1.82	0.44
1:C:3036:LYS:HD2	1:C:3076:ASP:N	2.32	0.44
1:C:3316:LEU:O	1:C:3320:LEU:HG	2.17	0.44
1:C:3416:VAL:HG22	1:C:3423:TRP:HZ3	1.82	0.44
1:C:3513:THR:HA	1:C:3516:LYS:HZ2	1.83	0.44
1:C:4148:THR:HG22	1:C:4152:GLU:OE2	2.16	0.44
1:C:4158:PRO:HA	1:C:4161:ARG:HB2	2.00	0.44
1:A:918:ARG:O	1:A:922:LEU:HG	2.17	0.44
1:A:1011:GLN:HB2	1:A:1019:PRO:HD2	2.00	0.44
1:A:1037:ASP:O	1:A:1041:GLN:HG2	2.18	0.44
1:A:1490:SER:OG	1:A:1492:CYS:O	2.34	0.44
1:A:1783:VAL:O	2:E:55:VAL:HG13	2.18	0.44
1:A:1982:ARG:HH21	1:A:1985:THR:HG21	1.82	0.44
1:A:2223:ILE:HD12	1:A:2263:ILE:HG22	2.00	0.44
1:A:2638:LYS:HA	1:A:2641:LEU:HD12	2.00	0.44
1:A:3036:LYS:HD2	1:A:3076:ASP:N	2.32	0.44
1:A:3199:ALA:O	1:A:3283:ARG:NE	2.49	0.44
1:B:883:ALA:HA	1:B:886:ARG:HG3	2.00	0.44
1:B:1446:SER:HA	1:B:1496:TRP:NE1	2.33	0.44
1:B:1690:ASP:HB3	1:B:1693:GLN:CD	2.42	0.44
1:B:2929:PHE:CE1	1:B:2932:MET:HE2	2.52	0.44
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4235:VAL:HG11	1:B:5019:TRP:CH2	2.53	0.44
1:D:348:VAL:HG23	1:D:388:LEU:HD13	1.99	0.44
1:D:1037:ASP:O	1:D:1041:GLN:HG2	2.18	0.44
1:D:2512:ILE:HD13	1:D:2565:CYS:SG	2.58	0.44
1:D:4158:PRO:HA	1:D:4161:ARG:HB2	2.00	0.44
1:C:918:ARG:O	1:C:922:LEU:HG	2.17	0.44
1:C:1008:SER:HB2	1:C:1017:ARG:NE	2.33	0.44
1:C:1011:GLN:HB2	1:C:1019:PRO:HD2	2.00	0.44
1:C:1478:ASP:HB3	1:C:1482:ASN:HB3	1.99	0.44
1:C:2577:ILE:HG13	1:C:2578:MET:N	2.32	0.44
1:C:2761:TYR:HB3	1:C:2929:PHE:CZ	2.51	0.44
1:C:3546:ASP:O	1:C:3549:VAL:HG22	2.17	0.44
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.99	0.44
1:C:4165:GLU:HA	1:C:4168:GLU:HG2	2.00	0.44
1:C:4738:ALA:HA	1:C:4743:MET:HG2	1.99	0.44
1:C:4998:LYS:NZ	1:C:5002:GLU:O	2.50	0.44
1:A:20:VAL:HG12	1:A:204:PRO:HA	2.00	0.44
1:A:23:GLN:NE2	1:A:34:LYS:HD2	2.32	0.44
1:A:1008:SER:HB2	1:A:1017:ARG:NE	2.33	0.44
1:A:1252:HIS:CE1	1:A:1255:TYR:HD2	2.29	0.44
1:A:1641:ILE:O	1:A:1645:ASN:N	2.51	0.44
1:A:2653:LYS:HB3	1:A:2661:TRP:HE1	1.82	0.44
1:A:2673:HIS:CD2	1:A:2909:ASP:HB2	2.53	0.44
1:A:2879:ALA:HB2	1:A:2923:ALA:HB2	2.00	0.44
1:A:2929:PHE:CE1	1:A:2932:MET:HE2	2.52	0.44
1:A:3533:ILE:O	1:A:3537:LYS:HG2	2.18	0.44
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.99	0.44
1:A:4087:LEU:CD2	1:A:4124:ASN:HD22	2.31	0.44
1:A:4165:GLU:HA	1:A:4168:GLU:HG2	2.00	0.44
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	2.53	0.44
1:B:571:SER:OG	1:B:574:VAL:HG23	2.18	0.44
1:B:986:ASP:HA	1:B:1039:LEU:HD13	1.99	0.44
1:B:2420:HIS:HA	1:B:2423:MET:HE3	2.00	0.44
1:B:2577:ILE:HG13	1:B:2578:MET:N	2.32	0.44
1:B:2676:ARG:O	1:B:2680:TRP:HD1	2.00	0.44
1:B:2960:LEU:HD22	1:B:3035:GLU:HG3	2.00	0.44
1:B:3033:ASN:O	1:B:3037:GLU:OE1	2.36	0.44
1:B:4904:PRO:HG3	1:B:4913:ARG:NH1	2.32	0.44
1:D:571:SER:OG	1:D:574:VAL:HG23	2.18	0.44
1:D:683:ARG:HH12	1:D:717:ASP:HB2	1.82	0.44
1:D:918:ARG:O	1:D:922:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1256:GLU:HB2	1:D:1275:ARG:HG3	1.99	0.44
1:D:2292:GLU:H	1:D:2292:GLU:CD	2.23	0.44
1:D:2500:ALA:HB2	1:D:2553:TYR:CD1	2.49	0.44
1:D:3036:LYS:HD3	1:D:3039:ILE:HD11	2.00	0.44
1:D:4235:VAL:HG11	1:D:5019:TRP:CH2	2.53	0.44
1:C:955:LEU:HG	1:C:969:PRO:HD3	1.99	0.44
1:C:1866:ILE:HA	1:C:1926:LEU:HD12	2.00	0.44
1:C:1869:GLU:HA	1:C:1872:THR:HG23	2.00	0.44
1:C:2292:GLU:H	1:C:2292:GLU:CD	2.23	0.44
1:C:2369[B]:ARG:HA	1:C:2369[B]:ARG:HE	1.82	0.44
1:C:2464:ASP:OD1	1:C:2465:ASP:N	2.51	0.44
1:C:2512:ILE:HD13	1:C:2565:CYS:SG	2.58	0.44
1:C:2676:ARG:O	1:C:2680:TRP:HD1	2.00	0.44
1:C:3533:ILE:O	1:C:3537:LYS:HG2	2.18	0.44
1:C:3590:GLU:HA	1:C:3593:VAL:HG22	1.99	0.44
1:C:4087:LEU:CD2	1:C:4124:ASN:HD22	2.31	0.44
1:A:114:SER:OG	1:A:116:MET:HB2	2.18	0.44
1:A:683:ARG:HH12	1:A:717:ASP:HB2	1.82	0.44
1:A:1446:SER:HA	1:A:1496:TRP:NE1	2.33	0.44
1:A:1690:ASP:HB3	1:A:1693:GLN:CD	2.42	0.44
1:A:2420:HIS:HA	1:A:2423:MET:HE3	2.00	0.44
1:A:3150:HIS:HB3	1:A:3152:PHE:CE1	2.53	0.44
1:A:3395:ARG:HH11	1:A:3453:ARG:HH22	1.66	0.44
1:A:3416:VAL:HG22	1:A:3423:TRP:HZ3	1.82	0.44
1:A:4158:PRO:HA	1:A:4161:ARG:HB2	2.00	0.44
1:A:4700:GLN:HA	1:A:4703:ARG:HG3	1.99	0.44
1:A:4892:ARG:NH1	1:B:4917:ASP:HB3	2.33	0.44
2:E:25:HIS:HB3	2:E:102:GLU:HB2	1.99	0.44
2:H:25:HIS:HB3	2:H:102:GLU:HB2	1.99	0.44
1:B:705:ASN:ND2	1:B:709:ASP:O	2.50	0.44
1:B:822:ARG:HE	1:B:823:LEU:H	1.65	0.44
1:B:1491:ASN:OD1	1:B:1492:CYS:N	2.51	0.44
1:B:1496:TRP:HB3	1:B:1499:ASP:OD2	2.18	0.44
1:B:1943:LEU:HD13	1:B:2101:MET:HE2	1.99	0.44
1:B:2512:ILE:HD13	1:B:2565:CYS:SG	2.58	0.44
1:B:2653:LYS:HB3	1:B:2661:TRP:HE1	1.82	0.44
1:B:3107:VAL:O	1:B:3111:ARG:HG2	2.18	0.44
1:B:3395:ARG:HH11	1:B:3453:ARG:HH22	1.66	0.44
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.45	0.44
1:B:4165:GLU:HA	1:B:4168:GLU:HG2	2.00	0.44
1:D:803:LEU:HG	1:D:804:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1008:SER:HB2	1:D:1017:ARG:NE	2.33	0.44
1:D:2088:GLU:N	1:D:2092:GLN:OE1	2.50	0.44
1:D:2190:VAL:HG13	1:D:2194:HIS:ND1	2.31	0.44
1:D:3107:VAL:O	1:D:3111:ARG:HG2	2.18	0.44
1:D:3850:GLN:O	1:D:3854:GLU:OE1	2.36	0.44
1:C:348:VAL:HG23	1:C:388:LEU:HD13	1.99	0.44
1:C:426:ARG:NE	1:C:504:ALA:O	2.51	0.44
1:C:571:SER:OG	1:C:574:VAL:HG23	2.18	0.44
1:C:961:MET:HE3	1:C:963:ASN:HB2	2.00	0.44
1:C:2239:PHE:CD2	1:C:2250:MET:HE3	2.53	0.44
1:C:3107:VAL:O	1:C:3111:ARG:HG2	2.18	0.44
1:C:3354:LEU:HD12	1:C:3415:TYR:CD2	2.45	0.44
1:C:3607:GLU:HB3	1:C:3611:HIS:HE1	1.83	0.44
1:C:3721:LEU:HD12	1:C:3721:LEU:HA	1.83	0.44
1:A:1507:GLY:HA3	1:D:2774:ASN:OD1	2.17	0.44
1:A:1658:ASP:N	1:A:1658:ASP:OD1	2.48	0.44
1:A:2794:TYR:HA	1:A:2797:PHE:HB2	2.00	0.44
1:A:2970:SER:O	1:A:2974:ILE:HG12	2.18	0.44
1:A:2971:GLN:HA	1:A:2974:ILE:HG12	2.00	0.44
1:A:3033:ASN:O	1:A:3037:GLU:OE1	2.36	0.44
1:A:3955:MET:HE1	1:A:4016:LEU:HA	1.99	0.44
1:B:20:VAL:HG12	1:B:204:PRO:HA	2.00	0.44
1:B:692:TYR:HD2	1:B:778:PHE:HZ	1.65	0.44
1:B:743:VAL:HG21	1:B:801:LYS:HE2	1.99	0.44
1:B:790:ARG:NH1	1:B:1624:LEU:O	2.47	0.44
1:B:803:LEU:HG	1:B:804:PRO:HD2	2.00	0.44
1:B:955:LEU:HG	1:B:969:PRO:HD3	2.00	0.44
1:B:1257:VAL:HG22	1:B:1272:LEU:HD12	1.99	0.44
1:B:1478:ASP:HB3	1:B:1482:ASN:HB3	1.99	0.44
1:B:1694:LEU:HB3	1:B:1715:LEU:HD12	2.00	0.44
1:B:2698:MET:C	1:B:2701:PRO:HD2	2.43	0.44
1:B:2699:ALA:O	1:B:2702:CYS:HB3	2.18	0.44
1:B:3850:GLN:O	1:B:3854:GLU:OE1	2.36	0.44
1:B:4158:PRO:HA	1:B:4161:ARG:HB2	2.00	0.44
1:B:4865:LYS:HA	1:B:4865:LYS:HD3	1.75	0.44
1:D:1032:LYS:O	1:D:1036:ARG:NE	2.47	0.44
1:D:2239:PHE:CD2	1:D:2250:MET:HE3	2.53	0.44
1:D:3395:ARG:HH11	1:D:3453:ARG:HH22	1.66	0.44
1:D:3533:ILE:O	1:D:3537:LYS:HG2	2.18	0.44
1:D:3590:GLU:HA	1:D:3593:VAL:HG22	1.99	0.44
1:D:3596:VAL:HA	1:D:3599:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3842:LEU:HD22	1:D:3933:PHE:CE2	2.53	0.44
1:D:3875:MET:HB3	1:D:3878:ASP:HB3	1.99	0.44
1:C:315:CYS:SG	1:C:349:GLN:HB3	2.58	0.44
1:C:483:MET:HE2	1:C:483:MET:HB3	1.85	0.44
1:C:1164:LEU:N	1:C:1167:GLU:O	2.46	0.44
1:C:2223:ILE:HD12	1:C:2263:ILE:HG22	2.00	0.44
1:C:3150:HIS:HB3	1:C:3152:PHE:CE1	2.53	0.44
1:C:3596:VAL:HA	1:C:3599:VAL:HG22	2.00	0.44
1:C:3842:LEU:HD22	1:C:3933:PHE:CE2	2.53	0.44
1:C:3875:MET:HB3	1:C:3878:ASP:HB3	1.99	0.44
1:A:573:GLU:O	1:A:577:ILE:HG23	2.18	0.43
1:A:971:ASP:OD2	1:A:974:HIS:HB3	2.16	0.43
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.18	0.43
1:A:1694:LEU:HB3	1:A:1715:LEU:HD12	2.00	0.43
1:A:2392:ARG:O	1:A:2418:LEU:HD12	2.18	0.43
1:A:3107:VAL:O	1:A:3111:ARG:HG2	2.18	0.43
1:A:3391:GLU:C	1:A:3395:ARG:HE	2.25	0.43
1:A:3596:VAL:HA	1:A:3599:VAL:HG22	2.00	0.43
1:A:4127:GLU:OE1	1:A:4131:ARG:NH2	2.45	0.43
1:A:4232:GLU:OE2	1:A:5017:ARG:NH1	2.43	0.43
2:H:25:HIS:O	2:H:102:GLU:HB2	2.17	0.43
2:G:25:HIS:HB3	2:G:102:GLU:HB2	1.99	0.43
1:B:23:GLN:NE2	1:B:34:LYS:HD2	2.32	0.43
1:B:221:ARG:HB2	1:B:391:THR:OG1	2.17	0.43
1:B:470:SER:O	1:B:474:ARG:NE	2.50	0.43
1:B:573:GLU:O	1:B:577:ILE:HG23	2.18	0.43
1:B:590:LEU:HD12	1:B:599:VAL:HG12	2.00	0.43
1:B:895:PRO:HD2	1:B:903:LEU:HD23	1.99	0.43
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.35	0.43
1:B:1448:VAL:HG22	1:B:1554:VAL:HG23	1.99	0.43
1:B:1982:ARG:HH21	1:B:1985:THR:HG21	1.82	0.43
1:B:2690:LYS:HD3	1:B:2691:TYR:N	2.32	0.43
1:B:2970:SER:O	1:B:2974:ILE:HG12	2.18	0.43
1:B:3794:VAL:HG13	1:B:3880:PHE:CE1	2.53	0.43
1:B:4700:GLN:HA	1:B:4703:ARG:HG3	1.99	0.43
1:D:23:GLN:NE2	1:D:34:LYS:HD2	2.32	0.43
1:D:284:HIS:HB3	1:D:287:THR:OG1	2.17	0.43
1:D:1424:PRO:HA	1:D:1427:ILE:HG22	2.00	0.43
1:D:1641:ILE:O	1:D:1645:ASN:N	2.51	0.43
1:D:2638:LYS:HA	1:D:2641:LEU:HD12	2.00	0.43
1:D:2879:ALA:HB2	1:D:2923:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2960:LEU:HD12	1:D:3042:LEU:HD11	1.99	0.43
1:D:3069:HIS:CE1	1:D:3142:THR:HG1	2.25	0.43
1:D:3695:PRO:HB3	1:D:3699:HIS:HB3	1.98	0.43
1:D:4045:VAL:O	1:D:4049:VAL:HG23	2.18	0.43
1:C:150:MET:HB3	1:C:171:LEU:HD12	2.00	0.43
1:C:221:ARG:HB2	1:C:391:THR:OG1	2.17	0.43
1:C:452:PHE:HZ	1:C:478:PHE:HD2	1.66	0.43
1:C:683:ARG:HH12	1:C:717:ASP:HB2	1.82	0.43
1:C:1491:ASN:OD1	1:C:1492:CYS:N	2.51	0.43
1:C:2223:ILE:HD11	1:C:2229:VAL:HG21	1.99	0.43
1:C:2434:GLY:O	1:C:2508:ARG:HG2	2.17	0.43
1:C:3955:MET:HE1	1:C:4016:LEU:HA	1.99	0.43
1:A:457:GLU:HA	1:A:464:LYS:HZ2	1.82	0.43
1:A:571:SER:OG	1:A:574:VAL:HG23	2.18	0.43
1:A:1175:SER:HB2	1:A:1180:ARG:HD3	2.01	0.43
1:A:1449:TRP:HB2	1:A:1553:PHE:HB2	2.00	0.43
1:A:1575:LEU:HG	1:A:1579:MET:SD	2.58	0.43
1:A:2698:MET:C	1:A:2701:PRO:HD2	2.43	0.43
1:A:3081:MET:HE3	1:A:3155:ASP:O	2.18	0.43
1:A:4000:MET:HG2	1:A:4001:MET:HE2	2.01	0.43
1:A:4554:TYR:HA	1:A:4557:ARG:HH21	1.83	0.43
2:E:22:CYS:HB2	2:E:48:PHE:CE1	2.53	0.43
1:B:426:ARG:NE	1:B:504:ALA:O	2.51	0.43
1:B:457:GLU:HA	1:B:464:LYS:HZ2	1.82	0.43
1:B:1011:GLN:HB2	1:B:1019:PRO:HD2	2.00	0.43
1:B:1646:ARG:NH2	1:B:1648:MET:HE1	2.30	0.43
1:B:2144:ILE:HD11	1:B:2194:HIS:CE1	2.53	0.43
1:B:3842:LEU:HB2	1:B:3929:SER:CB	2.40	0.43
1:B:3875:MET:HB3	1:B:3878:ASP:HB3	1.98	0.43
1:D:114:SER:OG	1:D:116:MET:HB2	2.18	0.43
1:D:822:ARG:HE	1:D:823:LEU:H	1.65	0.43
1:D:961:MET:HE3	1:D:963:ASN:HB2	2.00	0.43
1:D:1125:ASN:O	1:D:1128:ARG:NH2	2.52	0.43
1:D:1175:SER:HB2	1:D:1180:ARG:HD3	2.01	0.43
1:D:1286:MET:HB3	1:D:1462:MET:HA	2.00	0.43
1:D:2392:ARG:O	1:D:2418:LEU:HD12	2.18	0.43
1:D:2420:HIS:HA	1:D:2423:MET:HE3	2.00	0.43
1:D:2970:SER:O	1:D:2974:ILE:HG12	2.18	0.43
1:D:3081:MET:HE3	1:D:3155:ASP:O	2.18	0.43
1:D:4000:MET:HG2	1:D:4001:MET:HE2	2.01	0.43
1:C:692:TYR:HD2	1:C:778:PHE:HZ	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.18	0.43
1:C:1443:GLN:NE2	1:C:1561:VAL:HA	2.34	0.43
1:C:1966:VAL:HG21	1:C:3650:CYS:HA	2.00	0.43
1:A:498:THR:HA	1:A:553:ARG:HH22	1.83	0.43
1:A:1286:MET:HB3	1:A:1462:MET:HA	1.99	0.43
1:A:1500:PHE:HB3	1:A:1531:ALA:HB1	2.01	0.43
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.18	0.43
1:A:2415:ARG:HH22	1:A:2417:HIS:HA	1.83	0.43
1:A:2464:ASP:OD1	1:A:2465:ASP:N	2.51	0.43
1:A:2577:ILE:HG13	1:A:2578:MET:N	2.32	0.43
1:A:2584[A]:HIS:NE2	1:A:2625:ARG:HG3	2.34	0.43
1:A:2960:LEU:HD22	1:A:3035:GLU:HG3	2.00	0.43
1:A:4555:LEU:HD21	1:A:4656:LEU:HD22	2.00	0.43
2:F:22:CYS:HB2	2:F:48:PHE:CE1	2.53	0.43
1:B:114:SER:OG	1:B:116:MET:HB2	2.18	0.43
1:B:918:ARG:O	1:B:922:LEU:HG	2.17	0.43
1:B:1256:GLU:HB2	1:B:1275:ARG:HG3	1.99	0.43
1:B:1443:GLN:NE2	1:B:1561:VAL:HA	2.33	0.43
1:B:2805:TYR:O	1:B:2809:ILE:HG12	2.18	0.43
1:B:3522:LEU:HD13	1:C:1220:GLN:O	2.17	0.43
1:B:3596:VAL:HA	1:B:3599:VAL:HG22	2.00	0.43
1:B:4045:VAL:O	1:B:4049:VAL:HG23	2.18	0.43
1:D:426:ARG:NE	1:D:504:ALA:O	2.51	0.43
1:D:580:GLU:OE1	1:D:624:ASN:ND2	2.51	0.43
1:D:705:ASN:ND2	1:D:709:ASP:O	2.50	0.43
1:D:1088:TRP:HB2	1:D:1153:ILE:CG2	2.49	0.43
1:D:1164:LEU:N	1:D:1167:GLU:O	2.46	0.43
1:D:1435:TYR:HB2	1:D:1575:LEU:HD22	2.00	0.43
1:D:1500:PHE:HB3	1:D:1531:ALA:HB1	2.01	0.43
1:D:2415:ARG:HH22	1:D:2417:HIS:HA	1.83	0.43
1:D:2654:TYR:HD1	1:D:2661:TRP:H	1.66	0.43
1:D:2673:HIS:CD2	1:D:2909:ASP:HB2	2.53	0.43
1:C:260:TRP:CE2	1:C:284:HIS:HD2	2.37	0.43
1:C:648:ILE:HD11	1:C:779:PRO:HG2	2.01	0.43
1:C:1931:LEU:HD12	1:C:1935:VAL:HG11	2.00	0.43
1:C:2205:GLU:O	1:C:2209:GLU:HG2	2.18	0.43
1:C:2392:ARG:O	1:C:2418:LEU:HD12	2.18	0.43
1:C:2415:ARG:HH22	1:C:2417:HIS:HA	1.83	0.43
1:C:2420:HIS:HA	1:C:2423:MET:HE3	2.00	0.43
1:C:2698:MET:C	1:C:2701:PRO:HD2	2.43	0.43
1:C:2699:ALA:O	1:C:2702:CYS:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3617:LYS:N	1:C:3617:LYS:HD2	2.34	0.43
1:C:3850:GLN:O	1:C:3854:GLU:OE1	2.36	0.43
1:C:4847:VAL:O	1:C:4851:TYR:HD1	2.01	0.43
1:A:315:CYS:SG	1:A:349:GLN:HB3	2.58	0.43
1:A:598:LYS:O	1:A:602:VAL:HG23	2.18	0.43
1:A:961:MET:HE3	1:A:963:ASN:HB2	2.00	0.43
1:A:1167:GLU:HB3	1:D:3477:LYS:NZ	2.34	0.43
1:A:2950:SER:O	1:A:2954:ARG:HG3	2.18	0.43
1:A:3607:GLU:HB3	1:A:3611:HIS:HE1	1.83	0.43
1:A:4158:PRO:HG2	1:A:4159:ARG:NH1	2.34	0.43
1:A:4847:VAL:O	1:A:4851:TYR:HD1	2.01	0.43
2:G:66:MET:HE2	2:G:66:MET:HB2	1.93	0.43
2:F:73:LYS:HZ2	2:F:99:PHE:C	2.26	0.43
1:B:20:VAL:CB	1:B:202:MET:HE2	2.49	0.43
1:B:260:TRP:CE2	1:B:284:HIS:HD2	2.37	0.43
1:B:452:PHE:HZ	1:B:478:PHE:HD2	1.65	0.43
1:B:924:MET:O	1:B:928:THR:HG23	2.18	0.43
1:B:1575:LEU:HG	1:B:1579:MET:SD	2.58	0.43
1:B:1601:MET:CE	1:B:1602:PRO:HD2	2.39	0.43
1:B:1866:ILE:HA	1:B:1926:LEU:HD12	2.00	0.43
1:B:2638:LYS:HA	1:B:2641:LEU:HD12	2.00	0.43
1:B:2757:LYS:HB3	1:B:2757:LYS:HE3	1.84	0.43
1:B:3036:LYS:HD3	1:B:3039:ILE:HD11	2.00	0.43
1:D:498:THR:HA	1:D:553:ARG:HH22	1.83	0.43
1:D:692:TYR:HD2	1:D:778:PHE:HZ	1.65	0.43
1:D:955:LEU:HG	1:D:969:PRO:HD3	2.00	0.43
1:D:1011:GLN:HB2	1:D:1019:PRO:HD2	2.00	0.43
1:D:1067:SER:O	1:D:1071:ARG:HB3	2.18	0.43
1:D:1491:ASN:OD1	1:D:1492:CYS:N	2.51	0.43
1:D:2719:TYR:HE2	1:D:2953:LYS:HA	1.82	0.43
1:D:2950:SER:O	1:D:2954:ARG:HG3	2.18	0.43
1:D:3222:LYS:O	1:D:3227:ARG:NH2	2.52	0.43
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	2.00	0.43
1:D:4165:GLU:HA	1:D:4168:GLU:HG2	2.00	0.43
1:C:114:SER:OG	1:C:116:MET:HB2	2.18	0.43
1:C:590:LEU:HD12	1:C:599:VAL:HG12	2.00	0.43
1:C:598:LYS:O	1:C:602:VAL:HG23	2.18	0.43
1:C:920:TYR:O	1:C:923:GLN:HG3	2.19	0.43
1:C:1237:TRP:CZ2	1:C:1652:GLU:HA	2.54	0.43
1:C:1500:PHE:HB3	1:C:1531:ALA:HB1	2.00	0.43
1:C:1568:LYS:HG2	1:C:1589:PRO:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1943:LEU:HD13	1:C:2101:MET:HE2	1.99	0.43
1:C:2653:LYS:HB3	1:C:2661:TRP:HE1	1.82	0.43
1:C:2805:TYR:O	1:C:2809:ILE:HG12	2.18	0.43
1:C:2879:ALA:HB2	1:C:2923:ALA:HB2	2.00	0.43
1:C:2960:LEU:HD22	1:C:3035:GLU:HG3	1.99	0.43
1:C:4134:GLU:HB3	1:C:4135:PRO:HD3	1.99	0.43
1:C:4697:VAL:HG13	1:C:4698:LYS:HD3	2.01	0.43
1:A:260:TRP:CE2	1:A:284:HIS:HD2	2.37	0.43
1:A:590:LEU:HD12	1:A:599:VAL:HG12	2.00	0.43
1:A:692:TYR:HD2	1:A:778:PHE:HZ	1.65	0.43
1:A:803:LEU:HG	1:A:804:PRO:HD2	2.00	0.43
1:A:883:ALA:HA	1:A:886:ARG:HG3	2.00	0.43
1:A:1424:PRO:HA	1:A:1427:ILE:HG22	2.00	0.43
1:A:2251:PHE:CG	1:A:2286:LEU:HD22	2.52	0.43
1:A:2876:GLU:C	1:A:2876:GLU:CD	2.87	0.43
1:A:3143:LEU:HD13	1:A:3146:HIS:CE1	2.47	0.43
1:A:3613:TYR:O	1:A:3617:LYS:HD3	2.18	0.43
1:A:3699:HIS:HB2	1:A:3773:ARG:HG3	2.01	0.43
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.17	0.43
1:A:3842:LEU:HD22	1:A:3933:PHE:CE2	2.53	0.43
1:B:315:CYS:SG	1:B:349:GLN:HB3	2.58	0.43
1:B:598:LYS:O	1:B:602:VAL:HG23	2.18	0.43
1:B:648:ILE:HD11	1:B:779:PRO:HG2	2.01	0.43
1:B:2271:THR:HG23	1:B:2274:ASP:N	2.27	0.43
1:B:2417:HIS:HB2	1:B:2491:SER:O	2.19	0.43
1:B:2584[A]:HIS:NE2	1:B:2625:ARG:HG3	2.34	0.43
1:B:3036:LYS:HD2	1:B:3076:ASP:N	2.32	0.43
1:B:3081:MET:HE3	1:B:3155:ASP:O	2.18	0.43
1:B:3316:LEU:O	1:B:3320:LEU:HG	2.18	0.43
1:B:3699:HIS:HB2	1:B:3773:ARG:HG3	2.01	0.43
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	2.00	0.43
1:B:3955:MET:HE1	1:B:4016:LEU:HA	1.99	0.43
1:B:4207:MET:HG3	1:B:4209:GLN:OE1	2.19	0.43
1:B:4554:TYR:HA	1:B:4557:ARG:HH21	1.83	0.43
1:D:103:TYR:N	1:D:161:GLU:O	2.45	0.43
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.18	0.43
1:D:1449:TRP:HB2	1:D:1553:PHE:HB2	2.00	0.43
1:D:1694:LEU:HB3	1:D:1715:LEU:HD12	2.00	0.43
1:D:1866:ILE:HA	1:D:1926:LEU:HD12	1.99	0.43
1:D:1970:GLN:NE2	1:D:3641:LEU:O	2.34	0.43
1:D:2268[A]:GLN:H	1:D:2268[A]:GLN:HG3	1.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2584[A]:HIS:NE2	1:D:2625:ARG:HG3	2.34	0.43
1:D:2699:ALA:O	1:D:2702:CYS:HB3	2.18	0.43
1:D:2794:TYR:HA	1:D:2797:PHE:HB2	2.00	0.43
1:D:3550:ARG:HH22	1:D:3593:VAL:HG23	1.84	0.43
1:D:4158:PRO:HG2	1:D:4159:ARG:NH1	2.34	0.43
1:C:213:TYR:HA	1:C:340:LYS:HA	2.00	0.43
1:C:498:THR:HA	1:C:553:ARG:HH22	1.83	0.43
1:C:876:GLU:HG2	1:C:918:ARG:HH22	1.83	0.43
1:C:1130:GLN:NE2	1:C:1136:SER:HB2	2.31	0.43
1:C:1294:PRO:HB3	1:C:1549:PHE:CE1	2.49	0.43
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.18	0.43
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	2.00	0.43
1:C:1708:ARG:O	1:C:1712:TYR:HD1	2.02	0.43
1:C:2654:TYR:HD1	1:C:2661:TRP:H	1.66	0.43
1:C:3550:ARG:HH22	1:C:3593:VAL:HG23	1.84	0.43
1:C:3699:HIS:HB2	1:C:3773:ARG:HG3	2.01	0.43
1:C:3873:LYS:HD3	1:C:3873:LYS:HA	1.71	0.43
1:C:4090:LYS:NZ	1:C:4115:SER:OG	2.48	0.43
1:C:4158:PRO:HG2	1:C:4159:ARG:NH1	2.34	0.43
1:C:4207:MET:HG3	1:C:4209:GLN:OE1	2.19	0.43
1:A:19:GLU:OE1	1:A:205:ILE:HB	2.19	0.43
1:A:452:PHE:HZ	1:A:478:PHE:CD2	2.37	0.43
1:A:452:PHE:HZ	1:A:478:PHE:HD2	1.66	0.43
1:A:924:MET:O	1:A:928:THR:HG23	2.19	0.43
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.35	0.43
1:A:1443:GLN:NE2	1:A:1561:VAL:HA	2.33	0.43
1:A:4134:GLU:HB3	1:A:4135:PRO:HD3	1.99	0.43
2:F:22:CYS:HA	2:F:106:LEU:HD12	2.01	0.43
2:F:42:ARG:NH2	1:B:1780:PRO:O	2.49	0.43
1:B:483:MET:HE2	1:B:483:MET:HB3	1.85	0.43
1:B:803:LEU:HD23	1:B:804:PRO:O	2.18	0.43
1:B:1078:GLU:HG3	1:B:1655:GLU:OE2	2.19	0.43
1:B:1237:TRP:CZ2	1:B:1652:GLU:HA	2.54	0.43
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.51	0.43
1:B:2867:LEU:HD22	1:B:2928:LYS:NZ	2.34	0.43
1:B:2950:SER:O	1:B:2954:ARG:HG3	2.18	0.43
1:B:3078:ARG:NH1	1:B:3152:PHE:HA	2.34	0.43
1:B:3590:GLU:HA	1:B:3593:VAL:HG22	1.99	0.43
1:B:4087:LEU:CD2	1:B:4124:ASN:HD22	2.31	0.43
1:B:4632:LEU:HD23	1:B:4633:GLU:N	2.34	0.43
1:B:4847:VAL:O	1:B:4851:TYR:HD1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:150:MET:HB3	1:D:171:LEU:HD12	2.00	0.43
1:D:315:CYS:SG	1:D:349:GLN:HB3	2.58	0.43
1:D:452:PHE:HZ	1:D:478:PHE:HD2	1.66	0.43
1:D:877:ASN:HA	1:D:880:GLU:HG2	2.00	0.43
1:D:920:TYR:O	1:D:923:GLN:HG3	2.19	0.43
1:D:1690:ASP:HB3	1:D:1693:GLN:CG	2.47	0.43
1:D:1708:ARG:O	1:D:1712:TYR:HD1	2.01	0.43
1:D:2144:ILE:HD11	1:D:2194:HIS:CE1	2.53	0.43
1:D:2805:TYR:O	1:D:2809:ILE:HG12	2.18	0.43
1:D:3078:ARG:NH1	1:D:3152:PHE:HA	2.34	0.43
1:D:3343:GLN:HA	1:D:3414:ARG:CZ	2.49	0.43
1:D:3628:ARG:O	1:D:3632:VAL:HG13	2.19	0.43
1:D:3991:GLY:HA2	1:D:3994:HIS:CE1	2.54	0.43
1:D:4847:VAL:O	1:D:4851:TYR:HD1	2.01	0.43
1:C:877:ASN:HA	1:C:880:GLU:HG2	2.00	0.43
1:C:1125:ASN:O	1:C:1128:ARG:NH2	2.52	0.43
1:C:2144:ILE:HD11	1:C:2194:HIS:CE1	2.53	0.43
1:C:2584[A]:HIS:NE2	1:C:2625:ARG:HG3	2.34	0.43
1:C:3078:ARG:NH1	1:C:3152:PHE:HA	2.34	0.43
1:C:3343:GLN:HA	1:C:3414:ARG:CZ	2.49	0.43
1:C:4045:VAL:O	1:C:4049:VAL:HG23	2.18	0.43
1:A:106:ALA:HA	1:A:149:THR:HA	2.00	0.43
1:A:457:GLU:HA	1:A:464:LYS:NZ	2.34	0.43
1:A:876:GLU:HG2	1:A:918:ARG:HH22	1.83	0.43
1:A:955:LEU:HG	1:A:969:PRO:HD3	2.00	0.43
1:A:2144:ILE:HD11	1:A:2194:HIS:CE1	2.53	0.43
1:A:2205:GLU:O	1:A:2209:GLU:HG2	2.18	0.43
1:A:2471:SER:HA	1:A:2525:GLY:HA2	2.01	0.43
1:A:3078:ARG:NH1	1:A:3152:PHE:HA	2.34	0.43
1:A:3617:LYS:N	1:A:3617:LYS:HD2	2.34	0.43
1:A:4681:LEU:HD21	1:A:4687:TYR:HD2	1.84	0.43
1:B:580:GLU:OE1	1:B:624:ASN:ND2	2.51	0.43
1:B:920:TYR:O	1:B:923:GLN:HG3	2.19	0.43
1:B:1500:PHE:HB3	1:B:1531:ALA:HB1	2.01	0.43
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.18	0.43
1:B:1755:GLY:O	1:B:1758:ARG:NE	2.49	0.43
1:B:1939:MET:HE3	1:B:1939:MET:HB2	1.83	0.43
1:B:2292:GLU:OE2	1:B:2292:GLU:N	2.34	0.43
1:B:2392:ARG:O	1:B:2418:LEU:HD12	2.18	0.43
1:B:2517:PHE:HA	1:B:2520:HIS:ND1	2.33	0.43
1:B:2876:GLU:CD	1:B:2876:GLU:C	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2879:ALA:HB2	1:B:2923:ALA:HB2	2.00	0.43
1:B:3143:LEU:HA	1:B:3146:HIS:HD1	1.84	0.43
1:B:3607:GLU:HB3	1:B:3611:HIS:HE1	1.83	0.43
1:D:20:VAL:CB	1:D:202:MET:HE2	2.49	0.43
1:D:359:TYR:HB2	1:D:374:LYS:HZ2	1.84	0.43
1:D:598:LYS:O	1:D:602:VAL:HG23	2.18	0.43
1:D:2577:ILE:HG13	1:D:2578:MET:N	2.32	0.43
1:D:3033:ASN:O	1:D:3037:GLU:OE1	2.36	0.43
1:D:3416:VAL:HG22	1:D:3423:TRP:HZ3	1.82	0.43
1:D:3775:ALA:O	1:D:3779:VAL:HG23	2.17	0.43
1:D:3930:ILE:HG22	1:D:3995:VAL:HG11	1.99	0.43
1:C:20:VAL:HG12	1:C:204:PRO:HA	2.00	0.43
1:C:803:LEU:HD23	1:C:804:PRO:O	2.18	0.43
1:C:895:PRO:HD2	1:C:903:LEU:HD23	1.99	0.43
1:C:1256:GLU:HB2	1:C:1275:ARG:HG3	1.99	0.43
1:C:1424:PRO:HA	1:C:1427:ILE:HG22	2.00	0.43
1:C:2268[B]:GLN:H	1:C:2268[B]:GLN:HG3	1.49	0.43
1:C:2950:SER:O	1:C:2954:ARG:HG3	2.18	0.43
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.19	0.43
1:A:213:TYR:HA	1:A:340:LYS:HA	2.00	0.43
1:A:226:HIS:CE1	1:B:155:LYS:HB2	2.52	0.43
1:A:1000:ARG:HH12	1:A:1018:ASN:HD22	1.66	0.43
1:A:1491:ASN:OD1	1:A:1492:CYS:N	2.51	0.43
1:A:2654:TYR:HD1	1:A:2661:TRP:H	1.66	0.43
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.48	0.43
1:A:2763:HIS:HB2	1:A:2802:LYS:HZ3	1.84	0.43
1:A:2978:GLU:CD	1:A:3053:ARG:HD2	2.44	0.43
1:A:3051:ARG:HA	1:A:3131:TYR:CZ	2.54	0.43
1:A:3205:PHE:HE2	1:A:3243:ILE:HG12	1.84	0.43
1:A:3222:LYS:O	1:A:3227:ARG:NH2	2.52	0.43
1:A:3550:ARG:HH22	1:A:3593:VAL:HG23	1.84	0.43
1:A:3601:ALA:HA	1:A:3604:TYR:CE1	2.54	0.43
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.37	0.43
1:A:4632:LEU:HD23	1:A:4633:GLU:N	2.34	0.43
1:A:4651:THR:OG1	1:A:4803:HIS:NE2	2.36	0.43
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.19	0.43
1:B:2431:ASP:OD1	1:B:2435:ARG:NE	2.39	0.43
1:B:3842:LEU:HD22	1:B:3933:PHE:CE2	2.53	0.43
1:B:4651:THR:OG1	1:B:4803:HIS:NE2	2.36	0.43
1:B:4697:VAL:HG13	1:B:4698:LYS:HD3	2.01	0.43
1:D:260:TRP:CE2	1:D:284:HIS:HD2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:GLU:HA	1:D:464:LYS:NZ	2.34	0.43
1:D:1943:LEU:HD13	1:D:2101:MET:HE2	1.99	0.43
1:D:3699:HIS:HB2	1:D:3773:ARG:HG3	2.01	0.43
1:D:3991:GLY:HA2	1:D:3994:HIS:ND1	2.34	0.43
1:C:830:ARG:NH1	1:C:832:GLU:HB2	2.30	0.43
1:C:1037:ASP:O	1:C:1041:GLN:HG2	2.18	0.43
1:C:1067:SER:O	1:C:1071:ARG:HB3	2.18	0.43
1:C:2867:LEU:HD22	1:C:2928:LYS:NZ	2.34	0.43
1:C:3613:TYR:O	1:C:3617:LYS:HD3	2.18	0.43
1:C:3794:VAL:HG13	1:C:3880:PHE:CE1	2.53	0.43
1:C:4555:LEU:HD21	1:C:4656:LEU:HD22	2.00	0.43
1:A:495:ASN:OD1	1:A:523:TYR:OH	2.30	0.43
1:A:1646:ARG:NH2	1:A:1648:MET:HE1	2.30	0.43
1:A:2517:PHE:HA	1:A:2520:HIS:ND1	2.34	0.43
1:A:2960:LEU:HD12	1:A:3042:LEU:HD11	1.99	0.43
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.19	0.43
1:A:3093:ARG:HA	1:A:3096:PHE:HD2	1.84	0.43
1:A:3114:LYS:HD2	1:A:3116:SER:N	2.25	0.43
1:A:3316:LEU:O	1:A:3320:LEU:HG	2.17	0.43
1:A:3445:TRP:HD1	1:A:3451:PHE:HD2	1.66	0.43
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.00	0.43
2:H:22:CYS:HB2	2:H:48:PHE:CE1	2.53	0.43
2:G:92:PRO:HA	2:G:93:PRO:HD3	1.95	0.43
1:B:772:ASN:N	1:B:1470:ARG:HH22	2.09	0.43
1:B:1869:GLU:HA	1:B:1872:THR:HG23	2.00	0.43
1:B:2251:PHE:CG	1:B:2286:LEU:HD22	2.52	0.43
1:B:3150:HIS:HB3	1:B:3152:PHE:CE1	2.53	0.43
1:B:3991:GLY:HA2	1:B:3994:HIS:ND1	2.34	0.43
1:D:332:GLU:H	1:D:332:GLU:CD	2.27	0.43
1:D:2223:ILE:HD12	1:D:2263:ILE:HG22	2.00	0.43
1:D:2517:PHE:HA	1:D:2520:HIS:ND1	2.33	0.43
1:D:2653:LYS:HB3	1:D:2661:TRP:HE1	1.82	0.43
1:D:3601:ALA:HA	1:D:3604:TYR:CE1	2.54	0.43
1:D:3613:TYR:O	1:D:3617:LYS:HD3	2.18	0.43
1:D:3794:VAL:HG13	1:D:3880:PHE:CE1	2.53	0.43
1:D:4995:LEU:HD21	1:D:5007:GLU:HB3	1.99	0.43
1:C:502:HIS:HA	1:C:505:GLU:OE1	2.19	0.43
1:C:1175:SER:HB2	1:C:1180:ARG:HD3	2.01	0.43
1:C:2876:GLU:C	1:C:2876:GLU:CD	2.87	0.43
1:C:3036:LYS:HD3	1:C:3039:ILE:HD11	2.00	0.43
1:C:3051:ARG:HA	1:C:3131:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3143:LEU:HA	1:C:3146:HIS:HD1	1.84	0.43
1:C:3805:LEU:HB3	1:C:3890:LEU:HB3	2.00	0.43
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	2.53	0.43
1:C:4995:LEU:HD21	1:C:5007:GLU:HB3	1.99	0.43
1:A:27:THR:OG1	1:A:32:GLN:OE1	2.28	0.43
1:A:150:MET:HB3	1:A:171:LEU:HD12	2.00	0.43
1:A:689:THR:HA	1:A:778:PHE:HE2	1.84	0.43
1:A:1435:TYR:HB2	1:A:1575:LEU:HD22	2.00	0.43
1:A:1866:ILE:HA	1:A:1926:LEU:HD12	2.00	0.43
1:A:2417:HIS:HB2	1:A:2491:SER:O	2.19	0.43
1:A:3144:PHE:CZ	1:A:3197:LEU:HD12	2.54	0.43
1:A:3354:LEU:HA	1:A:3358:PHE:CD2	2.42	0.43
1:A:3628:ARG:O	1:A:3632:VAL:HG13	2.18	0.43
1:A:3842:LEU:HB2	1:A:3929:SER:CB	2.40	0.43
1:A:4207:MET:HG3	1:A:4209:GLN:OE1	2.19	0.43
2:G:22:CYS:HB2	2:G:48:PHE:CE1	2.53	0.43
1:B:317:ARG:HG2	1:B:319:SER:H	1.84	0.43
1:B:961:MET:HE3	1:B:963:ASN:HB2	2.00	0.43
1:B:1105:ALA:O	1:B:1189:LEU:N	2.47	0.43
1:B:1175:SER:HB2	1:B:1180:ARG:HD3	2.00	0.43
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	2.01	0.43
1:B:2466:LEU:HG	1:B:2502:MET:SD	2.59	0.43
1:B:3059:THR:O	1:B:3062:PRO:HD2	2.19	0.43
1:B:4007:SER:HB3	1:B:4116:GLU:CD	2.44	0.43
1:B:4661:TYR:OH	1:B:4786:ASP:OD2	2.31	0.43
1:D:262:LEU:HD11	1:D:280:LEU:HD22	2.01	0.43
1:D:452:PHE:HZ	1:D:478:PHE:CD2	2.37	0.43
1:D:590:LEU:HD12	1:D:599:VAL:HG12	2.01	0.43
1:D:924:MET:O	1:D:928:THR:HG23	2.18	0.43
1:D:950:LEU:HB3	1:D:970:LEU:HD11	2.00	0.43
1:D:1100:MET:HE2	1:D:1198:GLN:HB3	2.01	0.43
1:D:1502:SER:HB2	1:D:1503:PRO:HD2	2.00	0.43
1:D:2698:MET:C	1:D:2701:PRO:HD2	2.43	0.43
1:D:2978:GLU:CD	1:D:3053:ARG:HD2	2.44	0.43
1:D:3445:TRP:HD1	1:D:3451:PHE:HD2	1.66	0.43
1:D:3546:ASP:O	1:D:3549:VAL:HG22	2.18	0.43
1:D:3916:ILE:O	1:D:3920:VAL:HG23	2.19	0.43
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.19	0.43
1:C:262:LEU:HD11	1:C:280:LEU:HD22	2.01	0.43
1:C:514:SER:HA	1:C:517:GLU:OE2	2.19	0.43
1:C:1446:SER:HA	1:C:1496:TRP:NE1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2233:CYS:HB3	1:C:2237:CYS:HB2	1.71	0.43
1:C:2271:THR:HG23	1:C:2274:ASP:N	2.27	0.43
1:C:2303:ALA:O	1:C:2307:LEU:HG	2.19	0.43
1:C:2466:LEU:HG	1:C:2502:MET:SD	2.59	0.43
1:C:2517:PHE:HA	1:C:2520:HIS:ND1	2.34	0.43
1:C:2970:SER:O	1:C:2974:ILE:HG12	2.18	0.43
1:C:3033:ASN:O	1:C:3037:GLU:OE1	2.36	0.43
1:C:3432:GLU:O	1:C:3436:ARG:NE	2.47	0.43
1:C:3628:ARG:O	1:C:3632:VAL:HG13	2.19	0.43
1:C:3991:GLY:HA2	1:C:3994:HIS:CE1	2.54	0.43
1:C:4207:MET:HE2	1:C:4207:MET:HA	2.01	0.43
1:C:4945:ASP:HA	1:C:4948:GLU:HG2	2.01	0.43
1:A:276:TRP:CH2	1:A:318:VAL:HB	2.54	0.42
1:A:803:LEU:HD23	1:A:804:PRO:O	2.18	0.42
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	2.01	0.42
1:A:2960:LEU:HD21	1:A:3038:MET:HB2	2.01	0.42
1:A:3143:LEU:HA	1:A:3146:HIS:HD1	1.84	0.42
1:A:3208:PRO:O	1:A:3212:GLU:OE1	2.38	0.42
2:H:73:LYS:HZ2	2:H:99:PHE:C	2.27	0.42
2:H:90:ILE:HG23	1:D:1687:SER:OG	2.19	0.42
1:B:276:TRP:CH2	1:B:318:VAL:HB	2.54	0.42
1:B:452:PHE:HZ	1:B:478:PHE:CD2	2.37	0.42
1:B:1424:PRO:HA	1:B:1427:ILE:HG22	2.00	0.42
1:B:1502:SER:HB2	1:B:1503:PRO:HD2	2.00	0.42
1:B:2321:ILE:HG22	1:B:2323:TRP:H	1.84	0.42
1:B:2471:SER:HA	1:B:2525:GLY:HA2	2.01	0.42
1:B:2719:TYR:HE2	1:B:2953:LYS:HA	1.82	0.42
1:B:3144:PHE:CZ	1:B:3197:LEU:HD12	2.54	0.42
1:B:3205:PHE:HE2	1:B:3243:ILE:HG12	1.84	0.42
1:B:4555:LEU:HD21	1:B:4656:LEU:HD22	2.00	0.42
1:D:19:GLU:OE1	1:D:205:ILE:HB	2.19	0.42
1:D:214:VAL:HG22	1:D:341:TYR:CD1	2.50	0.42
1:D:1078:GLU:HG3	1:D:1655:GLU:OE2	2.19	0.42
1:D:1237:TRP:CZ2	1:D:1652:GLU:HA	2.54	0.42
1:D:1966:VAL:HG21	1:D:3650:CYS:HA	2.00	0.42
1:D:2927:LEU:HD23	1:D:2927:LEU:HA	1.79	0.42
1:D:2960:LEU:HD22	1:D:3035:GLU:HG3	1.99	0.42
1:D:3059:THR:O	1:D:3062:PRO:HD2	2.19	0.42
1:D:3150:HIS:HB3	1:D:3152:PHE:CE1	2.53	0.42
1:D:3530:GLN:HA	1:D:3533:ILE:HD12	2.01	0.42
1:D:4007:SER:HB3	1:D:4116:GLU:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4207:MET:HE2	1:D:4207:MET:HA	2.01	0.42
1:D:4697:VAL:HG13	1:D:4698:LYS:HD3	2.01	0.42
1:C:332:GLU:H	1:C:332:GLU:CD	2.27	0.42
1:C:803:LEU:HG	1:C:804:PRO:HD2	2.00	0.42
1:C:924:MET:O	1:C:928:THR:HG23	2.18	0.42
1:C:1000:ARG:HH12	1:C:1018:ASN:HD22	1.66	0.42
1:C:1088:TRP:HB2	1:C:1153:ILE:CG2	2.49	0.42
1:C:1646:ARG:NH2	1:C:1648:MET:HE1	2.30	0.42
1:C:2638:LYS:HA	1:C:2641:LEU:HD12	2.00	0.42
1:C:2763:HIS:HB2	1:C:2802:LYS:HZ3	1.83	0.42
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.19	0.42
1:C:3144:PHE:CZ	1:C:3197:LEU:HD12	2.54	0.42
1:C:3222:LYS:O	1:C:3227:ARG:NH2	2.52	0.42
1:C:3779:VAL:HG13	1:C:3797:THR:HG22	2.01	0.42
1:C:3991:GLY:HA2	1:C:3994:HIS:ND1	2.34	0.42
1:C:4554:TYR:HA	1:C:4557:ARG:HH21	1.84	0.42
1:A:502:HIS:HA	1:A:505:GLU:OE1	2.19	0.42
1:A:950:LEU:HB3	1:A:970:LEU:HD11	2.01	0.42
1:A:1088:TRP:HB2	1:A:1153:ILE:CG2	2.49	0.42
1:A:2303:ALA:O	1:A:2307:LEU:HG	2.19	0.42
1:A:2867:LEU:HD22	1:A:2928:LYS:NZ	2.34	0.42
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.19	0.42
1:A:3591:LYS:HA	1:A:3594:ARG:NE	2.34	0.42
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.19	0.42
1:A:3991:GLY:HA2	1:A:3994:HIS:ND1	2.34	0.42
1:B:150:MET:HB3	1:B:171:LEU:HD12	2.00	0.42
1:B:1088:TRP:HB2	1:B:1153:ILE:CG2	2.49	0.42
1:B:1724:CYS:SG	1:B:1851:MET:HE2	2.60	0.42
1:B:2907:PRO:O	1:B:2910:THR:OG1	2.28	0.42
1:B:3215:ALA:O	1:B:3220:THR:OG1	2.31	0.42
1:B:3222:LYS:O	1:B:3227:ARG:NH2	2.52	0.42
1:B:3617:LYS:HD2	1:B:3617:LYS:N	2.34	0.42
1:B:4000:MET:HG2	1:B:4001:MET:HE2	2.01	0.42
1:B:4207:MET:HE2	1:B:4207:MET:HA	2.01	0.42
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.19	0.42
1:B:4888:TYR:HA	1:C:4918:ILE:HD11	2.00	0.42
1:D:276:TRP:CH2	1:D:318:VAL:HB	2.54	0.42
1:D:790:ARG:NH1	1:D:1624:LEU:O	2.47	0.42
1:D:803:LEU:HD23	1:D:804:PRO:O	2.18	0.42
1:D:876:GLU:HG2	1:D:918:ARG:HH22	1.83	0.42
1:D:1668:ARG:HD3	1:D:1671:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1739:THR:HB	1:D:1742:THR:H	1.84	0.42
1:D:2223:ILE:HD11	1:D:2229:VAL:HG21	1.99	0.42
1:D:3927:GLN:NE2	1:D:3931:SER:OG	2.53	0.42
1:C:20:VAL:CB	1:C:202:MET:HE2	2.49	0.42
1:C:457:GLU:HA	1:C:464:LYS:NZ	2.34	0.42
1:C:589:LEU:HA	1:C:592:LYS:HG2	2.02	0.42
1:C:1502:SER:HB2	1:C:1503:PRO:HD2	2.00	0.42
1:C:2779:GLU:HA	1:C:2792:ARG:HG3	2.01	0.42
1:C:2971:GLN:HA	1:C:2974:ILE:HG12	2.00	0.42
1:C:3844:LEU:HD11	1:C:3932:ASP:HB3	2.01	0.42
1:C:4000:MET:HG2	1:C:4001:MET:HE2	2.01	0.42
1:C:4749:GLU:OE1	1:C:4753:HIS:NE2	2.53	0.42
1:A:262:LEU:HD11	1:A:280:LEU:HD22	2.01	0.42
1:A:920:TYR:O	1:A:923:GLN:HG3	2.19	0.42
1:A:1237:TRP:CZ2	1:A:1652:GLU:HA	2.54	0.42
1:A:1668:ARG:HD3	1:A:1671:ARG:HE	1.84	0.42
1:A:1869:GLU:HA	1:A:1872:THR:HG23	2.00	0.42
1:A:2466:LEU:HG	1:A:2502:MET:SD	2.59	0.42
1:A:2802:LYS:HA	1:A:2802:LYS:HD3	1.67	0.42
1:A:2907:PRO:HB2	1:A:2910:THR:HG23	2.02	0.42
1:A:3127:GLN:HA	1:A:3130:THR:HG22	2.02	0.42
1:A:3779:VAL:HG13	1:A:3797:THR:HG22	2.01	0.42
1:A:3794:VAL:HG13	1:A:3880:PHE:CE1	2.53	0.42
1:A:4007:SER:HB3	1:A:4116:GLU:CD	2.44	0.42
1:B:106:ALA:HA	1:B:149:THR:HA	2.01	0.42
1:B:457:GLU:HA	1:B:464:LYS:NZ	2.34	0.42
1:B:502:HIS:HA	1:B:505:GLU:OE1	2.19	0.42
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.18	0.42
1:B:1464:PHE:HZ	1:B:1494:MET:HG3	1.84	0.42
1:B:2654:TYR:HD1	1:B:2661:TRP:H	1.66	0.42
1:B:2794:TYR:HA	1:B:2797:PHE:HB2	2.00	0.42
1:B:3550:ARG:HH22	1:B:3593:VAL:HG23	1.84	0.42
1:B:3927:GLN:NE2	1:B:3931:SER:OG	2.53	0.42
1:B:4945:ASP:HA	1:B:4948:GLU:HG2	2.01	0.42
1:D:1443:GLN:NE2	1:D:1561:VAL:HA	2.33	0.42
1:D:1446:SER:HA	1:D:1496:TRP:NE1	2.33	0.42
1:D:1694:LEU:O	1:D:1698:LEU:HG	2.18	0.42
1:D:2205:GLU:O	1:D:2209:GLU:HG2	2.18	0.42
1:D:2303:ALA:O	1:D:2307:LEU:HG	2.19	0.42
1:D:2907:PRO:HB2	1:D:2910:THR:HG23	2.02	0.42
1:D:2958:GLY:O	1:D:2962:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2971:GLN:HA	1:D:2974:ILE:HG12	2.00	0.42
1:D:3514:LEU:HD21	1:D:3606:LEU:HD13	2.01	0.42
1:D:3591:LYS:HA	1:D:3594:ARG:NE	2.34	0.42
1:D:3607:GLU:HB3	1:D:3611:HIS:HE1	1.83	0.42
1:D:4555:LEU:HD21	1:D:4656:LEU:HD22	2.00	0.42
1:D:4945:ASP:HA	1:D:4948:GLU:HG2	2.01	0.42
1:C:106:ALA:HA	1:C:149:THR:HA	2.00	0.42
1:C:1100:MET:HE2	1:C:1198:GLN:HB3	2.01	0.42
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	2.01	0.42
1:C:1449:TRP:HB2	1:C:1553:PHE:HB2	2.00	0.42
1:C:1668:ARG:HD3	1:C:1671:ARG:HE	1.84	0.42
1:C:2321:ILE:HG22	1:C:2323:TRP:H	1.84	0.42
1:C:3205:PHE:HE2	1:C:3243:ILE:HG12	1.84	0.42
1:C:3375:GLU:O	1:C:3378:GLN:HB3	2.19	0.42
1:C:4007:SER:HB3	1:C:4116:GLU:CD	2.44	0.42
1:C:4634:GLU:OE1	1:C:4636:THR:OG1	2.37	0.42
1:C:4853:VAL:HG22	1:C:4879:MET:HE1	2.02	0.42
1:A:822:ARG:HE	1:A:823:LEU:H	1.65	0.42
1:A:1078:GLU:HG3	1:A:1655:GLU:OE2	2.19	0.42
1:A:1724:CYS:SG	1:A:1851:MET:HE2	2.60	0.42
1:A:1931:LEU:HD12	1:A:1935:VAL:HG11	2.00	0.42
1:A:1939:MET:HE3	1:A:1939:MET:HB2	1.83	0.42
1:A:2522:LEU:O	1:A:2527:LEU:N	2.48	0.42
1:A:3143:LEU:O	1:A:3147:ILE:HG22	2.20	0.42
1:A:3513:THR:HA	1:A:3516:LYS:HZ2	1.84	0.42
1:A:3844:LEU:CD1	1:B:76:ARG:HD3	2.48	0.42
1:A:3850:GLN:O	1:A:3854:GLU:OE1	2.36	0.42
1:A:3991:GLY:HA2	1:A:3994:HIS:CE1	2.54	0.42
1:A:4207:MET:HA	1:A:4207:MET:HE2	2.01	0.42
1:A:4749:GLU:OE1	1:A:4753:HIS:NE2	2.53	0.42
1:B:19:GLU:OE1	1:B:205:ILE:HB	2.19	0.42
1:B:262:LEU:HD11	1:B:280:LEU:HD22	2.01	0.42
1:B:876:GLU:HG2	1:B:918:ARG:HH22	1.83	0.42
1:B:1000:ARG:HH12	1:B:1018:ASN:HD22	1.65	0.42
1:B:1931:LEU:HD12	1:B:1935:VAL:HG11	2.00	0.42
1:B:2369[A]:ARG:HE	1:B:2369[A]:ARG:HB2	1.69	0.42
1:B:3157:ILE:HG23	1:B:3161:VAL:HB	2.01	0.42
1:B:3613:TYR:O	1:B:3617:LYS:HD3	2.18	0.42
1:B:3628:ARG:O	1:B:3632:VAL:HG13	2.19	0.42
1:D:2321:ILE:HG22	1:D:2323:TRP:H	1.84	0.42
1:D:2393:ASP:OD1	1:D:2419:GLY:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:HIS:HB2	1:D:2491:SER:O	2.19	0.42
1:D:2779:GLU:HA	1:D:2792:ARG:HG3	2.02	0.42
1:D:3205:PHE:HE2	1:D:3243:ILE:HG12	1.84	0.42
1:D:3375:GLU:O	1:D:3378:GLN:HB3	2.19	0.42
1:C:19:GLU:OE1	1:C:205:ILE:HB	2.19	0.42
1:C:219:VAL:HG11	1:C:259:LEU:HB3	2.02	0.42
1:C:276:TRP:CH2	1:C:318:VAL:HB	2.54	0.42
1:C:2522:LEU:O	1:C:2527:LEU:N	2.48	0.42
1:C:2794:TYR:HA	1:C:2797:PHE:HB2	2.01	0.42
1:C:3081:MET:HE3	1:C:3155:ASP:O	2.18	0.42
1:C:3530:GLN:HA	1:C:3533:ILE:HD12	2.01	0.42
1:C:3591:LYS:HA	1:C:3594:ARG:NE	2.34	0.42
1:C:3890:LEU:HD23	1:C:3890:LEU:HA	1.91	0.42
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.19	0.42
1:C:4681:LEU:HD21	1:C:4687:TYR:HD2	1.84	0.42
1:A:1502:SER:HB2	1:A:1503:PRO:HD2	2.00	0.42
1:A:1660:GLN:NE2	1:A:1706:PRO:HB2	2.33	0.42
1:A:1854:PHE:CD2	1:A:1858:ASP:HB3	2.54	0.42
1:A:2321:ILE:HG22	1:A:2323:TRP:H	1.84	0.42
1:A:2532:ALA:O	1:A:2535:SER:OG	2.31	0.42
1:A:2676:ARG:HB2	1:A:2714:TYR:HH	1.84	0.42
2:E:22:CYS:HA	2:E:106:LEU:HD12	2.01	0.42
2:G:22:CYS:HA	2:G:106:LEU:HD12	2.01	0.42
1:B:213:TYR:HA	1:B:340:LYS:HA	2.00	0.42
1:B:514:SER:HA	1:B:517:GLU:OE2	2.19	0.42
1:B:589:LEU:HA	1:B:592:LYS:HG2	2.01	0.42
1:B:722:TRP:CE2	1:B:727:ALA:HB2	2.54	0.42
1:B:2303:ALA:O	1:B:2307:LEU:HG	2.19	0.42
1:B:3078:ARG:O	1:B:3081:MET:HG3	2.20	0.42
1:B:3127:GLN:HA	1:B:3130:THR:HG22	2.02	0.42
1:B:3514:LEU:HD21	1:B:3606:LEU:HD13	2.01	0.42
1:B:4158:PRO:HG2	1:B:4159:ARG:NH1	2.34	0.42
1:B:4759:ASP:HA	1:B:4760:PRO:HD3	1.92	0.42
1:D:213:TYR:HA	1:D:340:LYS:HA	2.00	0.42
1:D:502:HIS:HA	1:D:505:GLU:OE1	2.19	0.42
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	2.01	0.42
1:D:1931:LEU:HD12	1:D:1935:VAL:HG11	2.00	0.42
1:D:2466:LEU:HG	1:D:2502:MET:SD	2.59	0.42
1:D:2539:ALA:O	1:D:2543:THR:HG23	2.20	0.42
1:D:2694:GLU:O	1:D:2697:ARG:HG3	2.20	0.42
1:D:3035:GLU:HA	1:D:3038:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3143:LEU:HA	1:D:3146:HIS:HD1	1.84	0.42
1:D:3157:ILE:HG23	1:D:3161:VAL:HB	2.01	0.42
1:D:3844:LEU:HD11	1:D:3932:ASP:HB3	2.01	0.42
1:D:4207:MET:HG3	1:D:4209:GLN:OE1	2.19	0.42
1:D:4651:THR:HG1	1:D:4803:HIS:CD2	2.30	0.42
1:D:4681:LEU:HD21	1:D:4687:TYR:HD2	1.84	0.42
1:D:4749:GLU:OE1	1:D:4753:HIS:NE2	2.53	0.42
1:C:2417:HIS:HB2	1:C:2491:SER:O	2.19	0.42
1:C:2739:PRO:N	1:C:2888:ARG:HH21	2.18	0.42
1:C:3069:HIS:CE1	1:C:3142:THR:HG1	2.24	0.42
1:C:3209:GLN:OE1	1:C:3209:GLN:N	2.49	0.42
1:C:3981:ALA:HA	1:C:3986:TRP:CZ2	2.54	0.42
1:A:539:LEU:O	1:A:542:THR:OG1	2.34	0.42
1:A:1125:ASN:O	1:A:1128:ARG:NH2	2.52	0.42
1:A:1126:GLY:O	1:A:1129:GLY:N	2.53	0.42
1:A:1931:LEU:HD23	1:A:1939:MET:HE1	2.02	0.42
1:A:2739:PRO:N	1:A:2888:ARG:HH21	2.18	0.42
1:A:2958:GLY:O	1:A:2962:GLN:HG2	2.19	0.42
1:A:3378:GLN:OE1	1:A:3381:LEU:HD11	2.19	0.42
1:B:356:TRP:HB2	1:B:379:HIS:O	2.20	0.42
1:B:732:SER:HB3	1:B:735:GLN:HG3	2.02	0.42
1:B:1125:ASN:O	1:B:1128:ARG:NH2	2.52	0.42
1:B:1126:GLY:O	1:B:1129:GLY:N	2.53	0.42
1:B:1435:TYR:HB2	1:B:1575:LEU:HD22	2.00	0.42
1:B:1449:TRP:HB2	1:B:1553:PHE:HB2	2.00	0.42
1:B:1970:GLN:NE2	1:B:3641:LEU:O	2.34	0.42
1:B:1977:TYR:HA	1:B:1980:LEU:HB3	2.02	0.42
1:B:2415:ARG:HH22	1:B:2417:HIS:HA	1.83	0.42
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.54	0.42
1:B:3093:ARG:HA	1:B:3096:PHE:HD2	1.84	0.42
1:B:3208:PRO:O	1:B:3212:GLU:OE1	2.38	0.42
1:B:3845:ASN:O	1:B:3849:ARG:HG3	2.20	0.42
1:B:3991:GLY:HA2	1:B:3994:HIS:CE1	2.54	0.42
1:B:4681:LEU:HD21	1:B:4687:TYR:HD2	1.84	0.42
1:D:355:LEU:HB2	1:D:378:LEU:HG	2.02	0.42
1:D:402:ARG:HA	1:D:402:ARG:HD2	1.95	0.42
1:D:648:ILE:HD11	1:D:779:PRO:HG2	2.00	0.42
1:D:1773:PRO:HD3	1:D:2156:LEU:HD21	2.02	0.42
1:D:2236:LEU:HB3	1:D:2250:MET:HE1	2.01	0.42
1:D:2739:PRO:N	1:D:2888:ARG:HH21	2.18	0.42
1:D:3051:ARG:HA	1:D:3131:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3845:ASN:O	1:D:3849:ARG:HG3	2.20	0.42
1:D:4853:VAL:HG22	1:D:4879:MET:HE1	2.02	0.42
1:C:63:ALA:N	1:C:261:ARG:HH22	2.17	0.42
1:C:1712:TYR:CG	1:C:1840:PRO:HB3	2.55	0.42
1:C:1724:CYS:SG	1:C:1851:MET:HE2	2.60	0.42
1:C:1739:THR:HB	1:C:1742:THR:H	1.85	0.42
1:C:1977:TYR:HA	1:C:1980:LEU:HB3	2.02	0.42
1:C:2539:ALA:O	1:C:2543:THR:HG23	2.20	0.42
1:C:2907:PRO:HB2	1:C:2910:THR:HG23	2.02	0.42
1:C:2927:LEU:HD23	1:C:2927:LEU:HA	1.79	0.42
1:C:2951:ILE:O	1:C:2954:ARG:HB2	2.20	0.42
1:C:3094:SER:O	1:C:3098:SER:OG	2.31	0.42
1:C:3127:GLN:HA	1:C:3130:THR:HG22	2.02	0.42
1:C:3145:GLN:HE21	1:C:3196:ARG:CD	2.31	0.42
1:C:3330:ASP:OD1	1:C:3331:GLU:N	2.49	0.42
1:C:3927:GLN:NE2	1:C:3931:SER:OG	2.53	0.42
1:C:4632:LEU:HD23	1:C:4633:GLU:N	2.34	0.42
1:A:648:ILE:HD11	1:A:779:PRO:HG2	2.01	0.42
1:A:1100:MET:HE2	1:A:1198:GLN:HB3	2.01	0.42
1:A:2292:GLU:H	1:A:2292:GLU:CD	2.23	0.42
1:A:3343:GLN:HA	1:A:3414:ARG:CZ	2.49	0.42
1:A:4661:TYR:OH	1:A:4786:ASP:OD2	2.31	0.42
1:A:4917:ASP:HB3	1:D:4892:ARG:NH1	2.34	0.42
1:B:63:ALA:N	1:B:261:ARG:HH22	2.17	0.42
1:B:1433:TYR:CD1	1:B:1573:MET:HB3	2.55	0.42
1:B:1712:TYR:CG	1:B:1840:PRO:HB3	2.55	0.42
1:B:2739:PRO:N	1:B:2888:ARG:HH21	2.18	0.42
1:B:2779:GLU:HA	1:B:2792:ARG:HG3	2.02	0.42
1:B:4569:LEU:HD12	1:B:4569:LEU:HA	1.92	0.42
1:B:4853:VAL:HG22	1:B:4879:MET:HE1	2.01	0.42
1:D:28:VAL:O	1:D:31:GLU:HG3	2.19	0.42
1:D:317:ARG:HG2	1:D:319:SER:H	1.84	0.42
1:D:689:THR:HA	1:D:778:PHE:HE2	1.84	0.42
1:D:1237:TRP:HZ2	1:D:1652:GLU:HA	1.85	0.42
1:D:1466:LEU:HD11	1:D:1495:VAL:HA	2.01	0.42
1:D:1854:PHE:CD2	1:D:1858:ASP:HB3	2.54	0.42
1:D:2763:HIS:HB2	1:D:2802:LYS:HZ3	1.85	0.42
1:D:3378:GLN:OE1	1:D:3381:LEU:HD11	2.19	0.42
1:D:3779:VAL:HG13	1:D:3797:THR:HG22	2.01	0.42
1:D:3826:VAL:O	1:D:3830:GLN:HG3	2.20	0.42
1:D:4554:TYR:HA	1:D:4557:ARG:HH21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:28:VAL:O	1:C:31:GLU:HG3	2.19	0.42
1:C:732:SER:HB3	1:C:735:GLN:HG3	2.02	0.42
1:C:1126:GLY:O	1:C:1129:GLY:N	2.53	0.42
1:C:1435:TYR:HB2	1:C:1575:LEU:HD22	2.00	0.42
1:C:2532:ALA:O	1:C:2536:LEU:HG	2.20	0.42
1:C:3845:ASN:O	1:C:3849:ARG:HG3	2.20	0.42
1:C:4801:LEU:HG	1:C:4808:PHE:CD2	2.55	0.42
1:A:514:SER:HA	1:A:517:GLU:OE2	2.19	0.42
1:A:1773:PRO:HD3	1:A:2156:LEU:HD21	2.02	0.42
1:A:2393:ASP:OD1	1:A:2419:GLY:N	2.44	0.42
1:A:3514:LEU:HD21	1:A:3606:LEU:HD13	2.01	0.42
1:A:3845:ASN:O	1:A:3849:ARG:HG3	2.20	0.42
1:A:4697:VAL:HG13	1:A:4698:LYS:HD3	2.01	0.42
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.18	0.42
1:B:1931:LEU:HD23	1:B:1939:MET:HE1	2.01	0.42
1:B:1966:VAL:HG21	1:B:3650:CYS:HA	2.00	0.42
1:B:2960:LEU:HD21	1:B:3038:MET:HB2	2.01	0.42
1:B:2978:GLU:CD	1:B:3053:ARG:HD2	2.44	0.42
1:B:3601:ALA:HA	1:B:3604:TYR:CE1	2.54	0.42
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.55	0.42
1:B:4044:MET:O	1:B:4048:LEU:HG	2.20	0.42
1:D:873:LYS:HG3	1:D:1049:TYR:OH	2.20	0.42
1:D:1646:ARG:NH2	1:D:1648:MET:HE1	2.30	0.42
1:D:1931:LEU:HD23	1:D:1939:MET:HE1	2.01	0.42
1:D:2251:PHE:HA	1:D:2254:LEU:HB2	2.02	0.42
1:D:2471:SER:HA	1:D:2525:GLY:HA2	2.01	0.42
1:D:3143:LEU:HD13	1:D:3146:HIS:CE1	2.47	0.42
1:D:3143:LEU:O	1:D:3147:ILE:HG22	2.20	0.42
1:D:3144:PHE:CZ	1:D:3197:LEU:HD12	2.54	0.42
1:D:3208:PRO:O	1:D:3212:GLU:OE1	2.38	0.42
1:D:3617:LYS:HD2	1:D:3617:LYS:N	2.34	0.42
1:D:3872:GLU:HG3	1:D:3874:VAL:H	1.85	0.42
1:D:3981:ALA:HA	1:D:3986:TRP:CZ2	2.55	0.42
1:D:4189:ARG:NH2	1:D:5032:TYR:OH	2.46	0.42
1:C:689:THR:HA	1:C:778:PHE:HE2	1.84	0.42
1:C:1032:LYS:O	1:C:1036:ARG:NE	2.47	0.42
1:C:1078:GLU:HG3	1:C:1655:GLU:OE2	2.19	0.42
1:C:1103:GLY:HA3	1:C:1123:VAL:HG12	2.02	0.42
1:C:1433:TYR:CD1	1:C:1573:MET:HB3	2.55	0.42
1:C:2694:GLU:O	1:C:2697:ARG:HG3	2.20	0.42
1:C:3066:ASN:HA	1:C:3069:HIS:CD2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4865:LYS:HD3	1:C:4865:LYS:HA	1.75	0.42
1:A:317:ARG:HG2	1:A:319:SER:H	1.84	0.42
1:A:1068:ARG:HA	1:A:1071:ARG:HB3	2.02	0.42
1:A:1433:TYR:CD1	1:A:1573:MET:HB3	2.55	0.42
1:A:1712:TYR:CG	1:A:1840:PRO:HB3	2.55	0.42
1:A:3375:GLU:O	1:A:3378:GLN:HB3	2.19	0.42
1:A:3927:GLN:NE2	1:A:3931:SER:OG	2.53	0.42
1:B:550:LYS:O	1:B:560:ILE:HD13	2.20	0.42
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	2.02	0.42
1:B:2971:GLN:HA	1:B:2974:ILE:HG12	2.00	0.42
1:B:3110:LEU:HD23	1:B:3175:LEU:HG	2.02	0.42
1:B:3530:GLN:HA	1:B:3533:ILE:HD12	2.01	0.42
1:B:3844:LEU:HD11	1:B:3932:ASP:HB3	2.01	0.42
1:B:3916:ILE:O	1:B:3920:VAL:HG23	2.19	0.42
1:D:222:LEU:HD23	1:D:222:LEU:HA	1.86	0.42
1:D:514:SER:HA	1:D:517:GLU:OE2	2.19	0.42
1:D:722:TRP:CE2	1:D:727:ALA:HB2	2.55	0.42
1:D:838:HIS:CE1	1:D:1201:HIS:HB2	2.55	0.42
1:D:867:LEU:O	1:D:871:ARG:HB2	2.20	0.42
1:D:3432:GLU:O	1:D:3436:ARG:NE	2.47	0.42
1:C:1464:PHE:HZ	1:C:1494:MET:HG3	1.84	0.42
1:C:2453:ILE:O	1:C:2457:LEU:HG	2.20	0.42
1:C:2978:GLU:CD	1:C:3053:ARG:HD2	2.44	0.42
1:C:3035:GLU:HA	1:C:3038:MET:HE3	2.02	0.42
1:C:3093:ARG:HA	1:C:3096:PHE:HD2	1.84	0.42
1:C:3514:LEU:HD21	1:C:3606:LEU:HD13	2.01	0.42
1:C:4760:PRO:HA	1:C:4761:PRO:HD3	1.94	0.42
1:A:273:HIS:HB3	1:A:337:PRO:HA	2.02	0.42
1:A:332:GLU:H	1:A:332:GLU:CD	2.27	0.42
1:A:838:HIS:CE1	1:A:1201:HIS:HB2	2.55	0.42
1:A:1992:ALA:HB1	1:A:1996:ARG:NH2	2.35	0.42
1:A:2699:ALA:O	1:A:2702:CYS:HB3	2.18	0.42
1:A:2779:GLU:HA	1:A:2792:ARG:HG3	2.02	0.42
1:A:4147:LEU:HD23	1:A:4147:LEU:HA	1.89	0.42
1:A:4747:SER:HA	1:A:4750:ILE:HG12	2.02	0.42
1:B:308:HIS:C	1:B:310:LYS:H	2.28	0.42
1:B:332:GLU:H	1:B:332:GLU:CD	2.27	0.42
1:B:385:ASP:OD1	1:C:156:GLN:NE2	2.53	0.42
1:B:950:LEU:HB3	1:B:970:LEU:HD11	2.01	0.42
1:B:1068:ARG:HA	1:B:1071:ARG:HB3	2.02	0.42
1:B:1130:GLN:NE2	1:B:1136:SER:HB2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1164:LEU:N	1:B:1167:GLU:O	2.46	0.42
1:B:1466:LEU:HD11	1:B:1495:VAL:HA	2.01	0.42
1:B:2499:LYS:NZ	1:B:2529:ASP:OD1	2.44	0.42
1:B:2522:LEU:O	1:B:2527:LEU:N	2.48	0.42
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.19	0.42
1:B:3143:LEU:O	1:B:3147:ILE:HG22	2.20	0.42
1:B:3343:GLN:HA	1:B:3414:ARG:CZ	2.49	0.42
1:B:3587:ASP:HA	1:B:3591:LYS:HE3	2.02	0.42
1:B:3591:LYS:HA	1:B:3594:ARG:NE	2.34	0.42
1:B:4001:MET:HE1	1:B:4061:PHE:HB2	2.02	0.42
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.20	0.42
1:D:308:HIS:C	1:D:310:LYS:H	2.28	0.42
1:D:356:TRP:HB2	1:D:379:HIS:O	2.20	0.42
1:D:589:LEU:HA	1:D:592:LYS:HG2	2.01	0.42
1:D:1712:TYR:CG	1:D:1840:PRO:HB3	2.55	0.42
1:D:1724:CYS:SG	1:D:1851:MET:HE2	2.60	0.42
1:D:3093:ARG:HA	1:D:3096:PHE:HD2	1.84	0.42
1:D:3508:SER:O	1:D:3511:VAL:HG22	2.20	0.42
1:D:3676:ASP:HA	1:D:3679:LYS:HZ1	1.83	0.42
1:D:4072:VAL:HG11	1:D:4129:ALA:HB2	2.02	0.42
1:D:4998:LYS:NZ	1:D:5002:GLU:O	2.50	0.42
1:C:317:ARG:HG2	1:C:319:SER:H	1.84	0.42
1:C:356:TRP:HB2	1:C:379:HIS:O	2.20	0.42
1:C:3143:LEU:O	1:C:3147:ILE:HG22	2.20	0.42
1:C:3378:GLN:OE1	1:C:3381:LEU:HD11	2.19	0.42
1:C:3445:TRP:HD1	1:C:3451:PHE:HD2	1.66	0.42
1:C:3817:LEU:HG	1:C:3821:LYS:HD2	2.02	0.42
1:C:4947:GLN:HB3	1:C:4951:LYS:HZ1	1.83	0.42
1:A:20:VAL:CB	1:A:202:MET:HE2	2.49	0.41
1:A:28:VAL:O	1:A:31:GLU:HG3	2.19	0.41
1:A:356:TRP:HB2	1:A:379:HIS:O	2.20	0.41
1:A:1237:TRP:HZ2	1:A:1652:GLU:HA	1.85	0.41
1:A:1708:ARG:O	1:A:1712:TYR:HD1	2.02	0.41
1:A:1966:VAL:HG21	1:A:3650:CYS:HA	2.00	0.41
1:A:2765:LYS:HA	1:A:2768:PHE:CD2	2.50	0.41
1:A:2766:TRP:O	1:A:2770:LYS:HG2	2.21	0.41
1:A:2951:ILE:O	1:A:2954:ARG:HB2	2.20	0.41
1:A:3330:ASP:OD1	1:A:3331:GLU:N	2.49	0.41
1:A:3850:GLN:O	1:A:3853:ALA:HB3	2.20	0.41
1:A:3872:GLU:HG3	1:A:3874:VAL:H	1.85	0.41
1:A:4072:VAL:HG11	1:A:4129:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:92:PRO:HA	2:H:93:PRO:HD3	1.95	0.41
2:G:40:ARG:HH22	2:G:102:GLU:HG2	1.85	0.41
1:B:408:ALA:O	1:B:412:ASN:ND2	2.40	0.41
1:B:689:THR:HA	1:B:778:PHE:HE2	1.84	0.41
1:B:838:HIS:CE1	1:B:1201:HIS:HB2	2.55	0.41
1:B:1668:ARG:HD3	1:B:1671:ARG:HE	1.84	0.41
1:B:1703:LEU:HD23	1:B:1704:PRO:O	2.20	0.41
1:B:2003:GLN:OE1	1:B:3652:MET:HG3	2.20	0.41
1:B:2487:GLN:NE2	1:B:2490:MET:HE1	2.35	0.41
1:B:3035:GLU:HA	1:B:3038:MET:HE3	2.02	0.41
1:B:3375:GLU:O	1:B:3378:GLN:HB3	2.19	0.41
1:B:3378:GLN:OE1	1:B:3381:LEU:HD11	2.19	0.41
1:B:3509:LEU:HD23	1:B:3509:LEU:HA	1.90	0.41
1:B:3779:VAL:HG13	1:B:3797:THR:HG22	2.01	0.41
1:B:4716:TRP:O	1:B:4718:LYS:NZ	2.50	0.41
1:B:4749:GLU:OE1	1:B:4753:HIS:NE2	2.53	0.41
1:B:4801:LEU:HG	1:B:4808:PHE:CD2	2.55	0.41
1:D:219:VAL:HG11	1:D:259:LEU:HB3	2.02	0.41
1:D:732:SER:HB3	1:D:735:GLN:HG3	2.02	0.41
1:D:815:VAL:O	1:D:1007:TYR:OH	2.27	0.41
1:D:1000:ARG:HH12	1:D:1018:ASN:HD22	1.66	0.41
1:D:1126:GLY:O	1:D:1129:GLY:N	2.53	0.41
1:D:1433:TYR:CD1	1:D:1573:MET:HB3	2.55	0.41
1:D:2876:GLU:C	1:D:2876:GLU:CD	2.87	0.41
1:D:3107:VAL:HB	1:D:3175:LEU:HD11	2.02	0.41
1:D:4632:LEU:HD23	1:D:4633:GLU:N	2.34	0.41
1:D:4801:LEU:HG	1:D:4808:PHE:CD2	2.55	0.41
1:C:1692:ALA:HA	1:C:1695:LEU:HD12	2.02	0.41
1:C:2182:ILE:C	1:C:2234:ARG:HH22	2.28	0.41
1:C:2487:GLN:NE2	1:C:2490:MET:HE1	2.35	0.41
1:C:2610:LEU:CD2	1:C:2614:ILE:HD11	2.48	0.41
1:C:3107:VAL:HB	1:C:3175:LEU:HD11	2.02	0.41
1:C:3110:LEU:HD23	1:C:3175:LEU:HG	2.02	0.41
1:C:3826:VAL:O	1:C:3830:GLN:HG3	2.20	0.41
1:C:4020:GLN:O	1:C:4023:MET:HB3	2.20	0.41
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.20	0.41
1:C:4885:PHE:CZ	1:C:4889:VAL:HG21	2.55	0.41
1:A:550:LYS:O	1:A:560:ILE:HD13	2.20	0.41
1:A:563:VAL:O	1:A:567:VAL:HG23	2.21	0.41
1:A:589:LEU:HA	1:A:592:LYS:HG2	2.01	0.41
1:A:732:SER:HB3	1:A:735:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1103:GLY:HA3	1:A:1123:VAL:HG12	2.02	0.41
1:A:1466:LEU:HD11	1:A:1495:VAL:HA	2.01	0.41
1:A:1653:LEU:O	1:A:1660:GLN:HB2	2.21	0.41
1:A:3530:GLN:HA	1:A:3533:ILE:HD12	2.01	0.41
1:A:3981:ALA:HA	1:A:3986:TRP:CZ2	2.55	0.41
1:A:4945:ASP:HA	1:A:4948:GLU:HG2	2.01	0.41
1:B:28:VAL:O	1:B:31:GLU:HG3	2.19	0.41
1:B:645:ARG:NH2	1:B:826:ILE:HG23	2.34	0.41
1:B:1466:LEU:O	1:B:1469:VAL:HG22	2.21	0.41
1:B:1699:GLU:OE2	1:B:1810:LYS:HE3	2.21	0.41
1:B:1815:LEU:HD12	1:B:1815:LEU:HA	1.91	0.41
1:B:1992:ALA:HB1	1:B:1996:ARG:NH2	2.35	0.41
1:B:2182:ILE:C	1:B:2234:ARG:HH22	2.29	0.41
1:B:2532:ALA:O	1:B:2536:LEU:HG	2.20	0.41
1:B:3145:GLN:HE21	1:B:3196:ARG:CD	2.31	0.41
1:B:3508:SER:O	1:B:3511:VAL:HG22	2.20	0.41
1:B:3944:GLU:CD	1:B:3947:GLY:H	2.28	0.41
1:B:4032:GLU:OE2	1:B:5004:THR:HB	2.20	0.41
1:D:580:GLU:CD	1:D:624:ASN:HD21	2.28	0.41
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	2.02	0.41
1:D:1692:ALA:HA	1:D:1695:LEU:HD12	2.02	0.41
1:D:2453:ILE:O	1:D:2457:LEU:HG	2.20	0.41
1:D:2532:ALA:O	1:D:2535:SER:OG	2.31	0.41
1:D:2766:TRP:O	1:D:2770:LYS:HG2	2.21	0.41
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.19	0.41
1:D:2960:LEU:HD21	1:D:3038:MET:HB2	2.01	0.41
1:D:3729:MET:HG2	1:D:3770:LEU:HD13	2.02	0.41
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.20	0.41
1:D:4947:GLN:HB3	1:D:4951:LYS:HZ1	1.85	0.41
1:C:296:ASP:OD1	1:C:297:GLN:N	2.53	0.41
1:C:452:PHE:HZ	1:C:478:PHE:CD2	2.37	0.41
1:C:636:ASN:HA	1:C:1693:GLN:HE21	1.86	0.41
1:C:873:LYS:HG3	1:C:1049:TYR:OH	2.20	0.41
1:C:950:LEU:HB3	1:C:970:LEU:HD11	2.01	0.41
1:C:1237:TRP:HZ2	1:C:1652:GLU:HA	1.85	0.41
1:C:1466:LEU:HD11	1:C:1495:VAL:HA	2.01	0.41
1:C:3587:ASP:HA	1:C:3591:LYS:HE3	2.02	0.41
1:C:3729:MET:HG2	1:C:3770:LEU:HD13	2.02	0.41
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.55	0.41
1:C:3872:GLU:HG3	1:C:3874:VAL:H	1.85	0.41
1:C:3992:PHE:HB2	1:C:4023:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:ALA:N	1:A:261:ARG:HH22	2.17	0.41
1:A:129:ASP:OD1	1:D:2371:GLU:N	2.54	0.41
1:A:296:ASP:OD1	1:A:297:GLN:N	2.53	0.41
1:A:308:HIS:C	1:A:310:LYS:H	2.28	0.41
1:A:616:SER:O	1:A:620:LEU:HG	2.21	0.41
1:A:867:LEU:O	1:A:871:ARG:HB2	2.20	0.41
1:A:1699:GLU:OE2	1:A:1810:LYS:HE3	2.21	0.41
1:A:2003:GLN:OE1	1:A:3652:MET:HG3	2.20	0.41
1:A:2172:PRO:O	1:A:2175:GLU:HG2	2.21	0.41
1:A:2236:LEU:HB3	1:A:2250:MET:HE1	2.01	0.41
1:A:2300:SER:HA	1:A:2360:LYS:HE2	2.03	0.41
1:A:2669:GLU:HG2	1:A:2672:LEU:HD12	2.02	0.41
1:A:3078:ARG:O	1:A:3081:MET:HG3	2.20	0.41
1:A:3078:ARG:O	1:A:3082:LYS:HG3	2.21	0.41
1:A:3420:ARG:NH2	1:B:1167:GLU:OE1	2.53	0.41
1:A:3474:SER:HB3	1:B:1170:MET:HG2	2.02	0.41
1:A:3992:PHE:HB2	1:A:4023:MET:HE1	2.02	0.41
1:A:4961:CYS:SG	1:A:4978:HIS:NE2	2.94	0.41
2:H:22:CYS:HA	2:H:106:LEU:HD12	2.01	0.41
1:B:867:LEU:O	1:B:871:ARG:HB2	2.20	0.41
1:B:1100:MET:HE2	1:B:1198:GLN:HB3	2.01	0.41
1:B:1708:ARG:O	1:B:1712:TYR:HD1	2.02	0.41
1:B:2539:ALA:O	1:B:2543:THR:HG23	2.20	0.41
1:B:2907:PRO:HB2	1:B:2910:THR:HG23	2.02	0.41
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.20	0.41
1:B:3522:LEU:HD23	1:B:3522:LEU:HA	1.91	0.41
1:B:3729:MET:HG2	1:B:3770:LEU:HD13	2.02	0.41
1:B:3752:SER:OG	1:B:3755:GLU:HG3	2.20	0.41
1:B:3850:GLN:O	1:B:3853:ALA:HB3	2.20	0.41
1:B:4554:TYR:HD1	1:B:4557:ARG:NH2	2.19	0.41
1:D:375:LYS:HD2	1:D:376:ALA:H	1.85	0.41
1:D:550:LYS:O	1:D:560:ILE:HD13	2.20	0.41
1:D:1653:LEU:O	1:D:1660:GLN:HB2	2.21	0.41
1:D:2003:GLN:OE1	1:D:3652:MET:HG3	2.20	0.41
1:D:2626:LEU:O	1:D:2629:ASP:N	2.53	0.41
1:D:2867:LEU:HD22	1:D:2928:LYS:NZ	2.34	0.41
1:D:3078:ARG:O	1:D:3081:MET:HG3	2.20	0.41
1:D:3110:LEU:HD23	1:D:3175:LEU:HG	2.02	0.41
1:D:3127:GLN:HA	1:D:3130:THR:HG22	2.02	0.41
1:D:3848:GLU:HB3	1:D:3852:LYS:NZ	2.36	0.41
1:D:4634:GLU:OE1	1:D:4636:THR:OG1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4973:HIS:O	1:D:4977:THR:HG23	2.21	0.41
1:C:308:HIS:C	1:C:310:LYS:H	2.28	0.41
1:C:722:TRP:CE2	1:C:727:ALA:HB2	2.54	0.41
1:C:2300:SER:HA	1:C:2360:LYS:HE2	2.03	0.41
1:C:2471:SER:HA	1:C:2525:GLY:HA2	2.01	0.41
1:C:3208:PRO:O	1:C:3212:GLU:OE1	2.37	0.41
1:C:3835:LEU:HA	1:C:3838:THR:HG22	2.02	0.41
1:A:580:GLU:CD	1:A:624:ASN:HD21	2.28	0.41
1:A:938:HIS:HB2	1:A:1054:GLU:HB3	2.03	0.41
1:A:1739:THR:HB	1:A:1742:THR:H	1.85	0.41
1:A:1945:TYR:CZ	1:A:1949:GLN:NE2	2.86	0.41
1:A:1977:TYR:HA	1:A:1980:LEU:HB3	2.02	0.41
1:A:2532:ALA:O	1:A:2536:LEU:HG	2.20	0.41
1:A:2539:ALA:O	1:A:2543:THR:HG23	2.20	0.41
1:A:2758:PHE:HD2	1:A:2809:ILE:HG21	1.86	0.41
1:A:2863:SER:HB3	1:A:2924:GLN:NE2	2.35	0.41
1:A:3110:LEU:HD23	1:A:3175:LEU:HG	2.02	0.41
1:A:3729:MET:HG2	1:A:3770:LEU:HD13	2.02	0.41
1:A:3840:SER:OG	1:A:3877:ASP:OD1	2.28	0.41
1:A:4554:TYR:HD1	1:A:4557:ARG:NH2	2.19	0.41
1:A:4801:LEU:HG	1:A:4808:PHE:CD2	2.55	0.41
1:A:4849:TYR:CE2	1:D:4813:LEU:HD12	2.55	0.41
1:A:4885:PHE:CZ	1:A:4889:VAL:HG21	2.55	0.41
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	2.03	0.41
1:B:1692:ALA:HA	1:B:1695:LEU:HD12	2.03	0.41
1:B:2113:SER:OG	1:B:2116:LEU:HB3	2.21	0.41
1:B:2236:LEU:HB3	1:B:2250:MET:HE1	2.01	0.41
1:B:2626:LEU:O	1:B:2629:ASP:N	2.54	0.41
1:B:2785:LEU:HD12	1:B:2785:LEU:HA	1.94	0.41
1:B:3595:ARG:O	1:B:3599:VAL:HG22	2.21	0.41
1:B:3826:VAL:O	1:B:3830:GLN:HG3	2.20	0.41
1:B:4634:GLU:OE1	1:B:4636:THR:OG1	2.37	0.41
1:B:4973:HIS:O	1:B:4977:THR:HG23	2.20	0.41
1:D:106:ALA:HA	1:D:149:THR:HA	2.00	0.41
1:D:563:VAL:O	1:D:567:VAL:HG23	2.20	0.41
1:D:616:SER:O	1:D:620:LEU:HG	2.21	0.41
1:D:1670:TYR:CD2	1:D:1685:LEU:HD11	2.56	0.41
1:D:1699:GLU:OE2	1:D:1810:LYS:HE3	2.21	0.41
1:D:1868:PRO:O	1:D:1872:THR:HG23	2.20	0.41
1:D:2225:PHE:O	1:D:2228:MET:HB3	2.20	0.41
1:D:2532:ALA:O	1:D:2536:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3078:ARG:O	1:D:3082:LYS:HG3	2.21	0.41
1:D:4044:MET:O	1:D:4048:LEU:HG	2.20	0.41
1:C:470:SER:O	1:C:474:ARG:NE	2.50	0.41
1:C:563:VAL:O	1:C:567:VAL:HG23	2.21	0.41
1:C:867:LEU:O	1:C:871:ARG:HB2	2.20	0.41
1:C:1068:ARG:HA	1:C:1071:ARG:HB3	2.02	0.41
1:C:1515:VAL:O	1:C:1532:ASN:HA	2.20	0.41
1:C:1653:LEU:O	1:C:1660:GLN:HB2	2.21	0.41
1:C:1703:LEU:HD23	1:C:1704:PRO:O	2.20	0.41
1:C:1854:PHE:CD2	1:C:1858:ASP:HB3	2.54	0.41
1:C:1943:LEU:HD21	1:C:2098:VAL:HG21	2.03	0.41
1:C:2003:GLN:OE1	1:C:3652:MET:HG3	2.20	0.41
1:C:2172:PRO:O	1:C:2175:GLU:HG2	2.21	0.41
1:C:2816:MET:HG2	1:C:2821:TRP:HE3	1.86	0.41
1:C:2958:GLY:O	1:C:2962:GLN:HG2	2.19	0.41
1:C:2960:LEU:HD21	1:C:3038:MET:HB2	2.01	0.41
1:C:3078:ARG:O	1:C:3081:MET:HG3	2.20	0.41
1:C:3601:ALA:HA	1:C:3604:TYR:CE1	2.54	0.41
1:C:4044:MET:O	1:C:4048:LEU:HG	2.20	0.41
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.31	0.41
1:A:214:VAL:HG22	1:A:341:TYR:CD1	2.50	0.41
1:A:355:LEU:HB2	1:A:378:LEU:HG	2.02	0.41
1:A:873:LYS:HG3	1:A:1049:TYR:OH	2.20	0.41
1:A:1067:SER:O	1:A:1071:ARG:HB3	2.18	0.41
1:A:2228:MET:O	1:A:2231:SER:OG	2.32	0.41
1:A:2453:ILE:O	1:A:2457:LEU:HG	2.20	0.41
1:A:2694:GLU:O	1:A:2697:ARG:HG3	2.20	0.41
1:A:3560:GLN:O	1:A:3562:LYS:NZ	2.54	0.41
1:A:4032:GLU:OE2	1:A:5004:THR:HB	2.21	0.41
1:A:4090:LYS:HB2	1:A:4121:GLU:HB3	2.02	0.41
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.20	0.41
1:A:4241:THR:C	1:A:4245:MET:HE3	2.46	0.41
1:A:4853:VAL:HG22	1:A:4879:MET:HE1	2.02	0.41
1:A:4973:HIS:O	1:A:4977:THR:HG23	2.21	0.41
1:B:219:VAL:HG11	1:B:259:LEU:HB3	2.02	0.41
1:B:1515:VAL:O	1:B:1532:ASN:HA	2.20	0.41
1:B:1653:LEU:O	1:B:1660:GLN:HB2	2.21	0.41
1:B:3872:GLU:HG3	1:B:3874:VAL:H	1.85	0.41
1:D:63:ALA:N	1:D:261:ARG:HH22	2.17	0.41
1:D:461:HIS:HB2	1:D:3707:ARG:NH1	2.36	0.41
1:D:938:HIS:HB2	1:D:1054:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1466:LEU:O	1:D:1469:VAL:HG22	2.21	0.41
1:D:1515:VAL:O	1:D:1532:ASN:HA	2.20	0.41
1:D:1977:TYR:HA	1:D:1980:LEU:HB3	2.02	0.41
1:D:1992:ALA:HB1	1:D:1996:ARG:NH2	2.35	0.41
1:D:2683:PHE:HE2	1:D:2966:TRP:NE1	2.18	0.41
1:D:2758:PHE:HD2	1:D:2809:ILE:HG21	1.86	0.41
1:D:2807:TRP:HB3	1:D:2808:PRO:HD3	2.03	0.41
1:D:3339:ALA:O	1:D:3343:GLN:HG2	2.21	0.41
1:D:3443:ILE:HG12	1:D:3605:HIS:CD2	2.56	0.41
1:D:3560:GLN:O	1:D:3562:LYS:NZ	2.53	0.41
1:D:3719:ASP:H	1:D:3793:MET:CE	2.29	0.41
1:C:355:LEU:HB2	1:C:378:LEU:HG	2.02	0.41
1:C:550:LYS:O	1:C:560:ILE:HD13	2.20	0.41
1:C:790:ARG:NH1	1:C:1624:LEU:O	2.47	0.41
1:C:1868:PRO:O	1:C:1872:THR:HG23	2.20	0.41
1:C:2225:PHE:O	1:C:2228:MET:HB3	2.21	0.41
1:C:2236:LEU:HB3	1:C:2250:MET:HE1	2.01	0.41
1:C:3539:ARG:HH22	1:C:3548:GLU:HG3	1.86	0.41
1:C:4747:SER:HA	1:C:4750:ILE:HG12	2.02	0.41
1:C:4973:HIS:O	1:C:4977:THR:HG23	2.21	0.41
1:A:203:ASN:HA	1:A:204:PRO:HD3	1.83	0.41
1:A:219:VAL:CG1	1:A:259:LEU:HB3	2.51	0.41
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.56	0.41
1:A:722:TRP:CE2	1:A:727:ALA:HB2	2.54	0.41
1:A:732:SER:N	1:A:735:GLN:OE1	2.53	0.41
1:A:769:GLU:OE2	1:A:1473:THR:HG22	2.21	0.41
1:A:1092:PHE:CZ	1:A:1100:MET:SD	3.13	0.41
1:A:1464:PHE:HZ	1:A:1494:MET:HG3	1.84	0.41
1:A:3508:SER:O	1:A:3511:VAL:HG22	2.20	0.41
1:A:3587:ASP:HA	1:A:3591:LYS:HE3	2.02	0.41
2:H:11:ASP:OD2	2:H:14:THR:OG1	2.31	0.41
1:B:355:LEU:HB2	1:B:378:LEU:HG	2.02	0.41
1:B:1237:TRP:HZ2	1:B:1652:GLU:HA	1.85	0.41
1:B:1773:PRO:HD3	1:B:2156:LEU:HD21	2.02	0.41
1:B:2172:PRO:O	1:B:2175:GLU:HG2	2.21	0.41
1:B:2205:GLU:O	1:B:2209:GLU:HG2	2.18	0.41
1:B:2225:PHE:O	1:B:2228:MET:HB3	2.21	0.41
1:B:3848:GLU:HB3	1:B:3852:LYS:NZ	2.36	0.41
1:B:4072:VAL:HG11	1:B:4129:ALA:HB2	2.02	0.41
1:D:219:VAL:CG1	1:D:259:LEU:HB3	2.51	0.41
1:D:1464:PHE:HZ	1:D:1494:MET:HG3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:LEU:HD23	1:D:1704:PRO:O	2.20	0.41
1:D:2300:SER:HA	1:D:2360:LYS:HE2	2.03	0.41
1:D:2638:LYS:O	1:D:2641:LEU:HB2	2.21	0.41
1:D:2880:GLU:HA	1:D:2908:TYR:HE2	1.86	0.41
1:D:4003:LEU:HD21	1:D:4012:LEU:HD23	2.02	0.41
1:C:273:HIS:HB3	1:C:337:PRO:HA	2.02	0.41
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.56	0.41
1:C:769:GLU:OE2	1:C:1473:THR:HG22	2.21	0.41
1:C:838:HIS:CE1	1:C:1201:HIS:HB2	2.55	0.41
1:C:1106:ARG:HB3	1:C:1108:GLU:OE1	2.21	0.41
1:C:1699:GLU:OE2	1:C:1810:LYS:HE3	2.20	0.41
1:C:1931:LEU:HD23	1:C:1939:MET:HE1	2.01	0.41
1:C:2113:SER:OG	1:C:2116:LEU:HB3	2.20	0.41
1:C:2487:GLN:HE22	1:C:2490:MET:HE1	1.86	0.41
1:C:2757:LYS:HE3	1:C:2757:LYS:HB3	1.84	0.41
1:C:2880:GLU:HA	1:C:2908:TYR:HE2	1.86	0.41
1:A:170:ILE:HD12	1:A:170:ILE:HA	1.96	0.41
1:A:2113:SER:OG	1:A:2116:LEU:HB3	2.20	0.41
1:A:2768:PHE:HE2	1:A:2857:PRO:HG2	1.86	0.41
1:A:2791:LEU:HD23	1:A:2791:LEU:HA	1.88	0.41
1:A:3035:GLU:HA	1:A:3038:MET:HE3	2.02	0.41
1:A:3107:VAL:HB	1:A:3175:LEU:HD11	2.02	0.41
1:A:3554:GLN:HA	1:A:3557:LEU:HD13	2.03	0.41
1:A:3844:LEU:HD11	1:A:3932:ASP:HB3	2.01	0.41
1:B:1106:ARG:HB3	1:B:1108:GLU:OE1	2.21	0.41
1:B:1854:PHE:CD2	1:B:1858:ASP:HB3	2.54	0.41
1:B:2123:LEU:HD12	1:B:2123:LEU:HA	1.92	0.41
1:B:2610:LEU:CD2	1:B:2614:ILE:HD11	2.48	0.41
1:B:3078:ARG:O	1:B:3082:LYS:HG3	2.21	0.41
1:B:3817:LEU:HG	1:B:3821:LYS:HD2	2.02	0.41
1:B:4554:TYR:HA	1:B:4557:ARG:NH2	2.36	0.41
1:B:4760:PRO:HA	1:B:4761:PRO:HD3	1.94	0.41
1:D:732:SER:N	1:D:735:GLN:OE1	2.53	0.41
1:D:769:GLU:OE2	1:D:1473:THR:HG22	2.21	0.41
1:D:1943:LEU:HD21	1:D:2098:VAL:HG21	2.03	0.41
1:D:2610:LEU:CD2	1:D:2614:ILE:HD11	2.48	0.41
1:D:2863:SER:HB3	1:D:2924:GLN:NE2	2.35	0.41
1:D:2951:ILE:O	1:D:2954:ARG:HB2	2.20	0.41
1:D:3465:ASN:C	1:D:3467:MET:H	2.29	0.41
1:D:3725:TYR:HA	1:D:3728:ILE:HD12	2.02	0.41
1:C:110:ARG:NH1	1:C:115:ARG:HE	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:461:HIS:HB2	1:C:3707:ARG:NH1	2.36	0.41
1:C:580:GLU:CD	1:C:624:ASN:HD21	2.28	0.41
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.19	0.41
1:C:3157:ILE:HG23	1:C:3161:VAL:HB	2.01	0.41
1:C:3395:ARG:HH11	1:C:3453:ARG:HH22	1.66	0.41
1:C:3443:ILE:HG12	1:C:3605:HIS:CD2	2.55	0.41
1:C:3752:SER:OG	1:C:3755:GLU:HG3	2.21	0.41
1:C:4090:LYS:HB2	1:C:4121:GLU:HB3	2.02	0.41
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.21	0.41
1:A:426:ARG:NE	1:A:504:ALA:O	2.51	0.41
1:A:1992:ALA:O	1:A:1995:THR:OG1	2.34	0.41
1:A:2251:PHE:HA	1:A:2254:LEU:HB2	2.02	0.41
1:A:2487:GLN:NE2	1:A:2490:MET:HE1	2.35	0.41
1:A:3157:ILE:HG23	1:A:3161:VAL:HB	2.01	0.41
1:A:3339:ALA:O	1:A:3343:GLN:HG2	2.21	0.41
1:A:3595:ARG:O	1:A:3599:VAL:HG22	2.21	0.41
1:A:3817:LEU:HG	1:A:3821:LYS:HD2	2.02	0.41
1:A:3826:VAL:O	1:A:3830:GLN:HG3	2.20	0.41
1:A:4020:GLN:O	1:A:4023:MET:HB3	2.20	0.41
2:H:82:TYR:OH	1:D:1782:PHE:O	2.37	0.41
1:B:296:ASP:OD1	1:B:297:GLN:N	2.53	0.41
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.56	0.41
1:B:873:LYS:HG3	1:B:1049:TYR:OH	2.20	0.41
1:B:1067:SER:O	1:B:1071:ARG:HB3	2.18	0.41
1:B:1670:TYR:CD2	1:B:1685:LEU:HD11	2.56	0.41
1:B:1739:THR:HB	1:B:1742:THR:H	1.84	0.41
1:B:2638:LYS:O	1:B:2641:LEU:HB2	2.21	0.41
1:B:2774:ASN:OD1	1:C:1507:GLY:HA3	2.20	0.41
1:B:2880:GLU:HA	1:B:2908:TYR:HE2	1.86	0.41
1:B:2912:THR:HG22	1:B:2914:LYS:H	1.86	0.41
1:B:2951:ILE:O	1:B:2954:ARG:HB2	2.20	0.41
1:B:3340:VAL:HA	1:B:3343:GLN:HG2	2.02	0.41
1:B:3539:ARG:HH22	1:B:3548:GLU:HG3	1.86	0.41
1:B:3579:LEU:HD12	1:B:3582:ARG:H	1.86	0.41
1:B:4020:GLN:O	1:B:4023:MET:HB3	2.20	0.41
1:B:4090:LYS:HB2	1:B:4121:GLU:HB3	2.02	0.41
1:D:1106:ARG:HB3	1:D:1108:GLU:OE1	2.21	0.41
1:D:1997:GLU:HG3	1:D:2008:MET:HE3	2.03	0.41
1:D:2106:ALA:CB	1:D:3697:PRO:HG3	2.51	0.41
1:D:2136:ARG:O	1:D:2139:PRO:HD2	2.21	0.41
1:D:2487:GLN:NE2	1:D:2490:MET:HE1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2912:THR:HG22	1:D:2914:LYS:H	1.86	0.41
1:D:3330:ASP:OD1	1:D:3331:GLU:N	2.49	0.41
1:D:3752:SER:OG	1:D:3755:GLU:HG3	2.20	0.41
1:D:3873:LYS:HA	1:D:3873:LYS:HD3	1.71	0.41
1:D:4067:LYS:HB3	1:D:4103:PHE:CZ	2.56	0.41
1:D:4158:PRO:HG2	1:D:4159:ARG:HH12	1.86	0.41
1:D:4241:THR:C	1:D:4245:MET:HE3	2.46	0.41
1:C:219:VAL:CG1	1:C:259:LEU:HB3	2.51	0.41
1:C:228:ASP:OD1	1:C:229:GLU:N	2.54	0.41
1:C:1088:TRP:HE3	1:C:1226:PHE:HA	1.86	0.41
1:C:2024:PRO:O	1:C:2028:ARG:HG3	2.21	0.41
1:C:2136:ARG:O	1:C:2139:PRO:HD2	2.21	0.41
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.21	0.41
1:C:2626:LEU:O	1:C:2629:ASP:N	2.53	0.41
1:C:2766:TRP:O	1:C:2770:LYS:HG2	2.21	0.41
1:C:2768:PHE:HE2	1:C:2857:PRO:HG2	1.86	0.41
1:C:3160:ASP:OD1	1:C:3161:VAL:N	2.54	0.41
1:C:3182:TYR:O	1:C:3185:LYS:HG2	2.21	0.41
1:C:3340:VAL:HA	1:C:3343:GLN:HG2	2.02	0.41
1:C:3560:GLN:O	1:C:3562:LYS:NZ	2.54	0.41
1:C:4554:TYR:HD1	1:C:4557:ARG:NH2	2.19	0.41
1:A:228:ASP:OD1	1:A:229:GLU:N	2.54	0.41
1:A:232:THR:HG22	1:A:233:ILE:O	2.21	0.41
1:A:533:ASN:HD22	1:A:536:ASN:ND2	2.19	0.41
1:A:597:HIS:HB3	1:A:1661:ARG:CZ	2.51	0.41
1:A:786:GLY:N	1:A:1630:CYS:O	2.54	0.41
1:A:923:GLN:NE2	1:A:924:MET:SD	2.94	0.41
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	2.02	0.41
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	2.02	0.41
1:A:1970:GLN:O	1:A:3642:TYR:HB3	2.21	0.41
1:A:2106:ALA:CB	1:A:3697:PRO:HG3	2.51	0.41
1:A:2182:ILE:C	1:A:2234:ARG:HH22	2.29	0.41
1:A:2225:PHE:O	1:A:2228:MET:HB3	2.21	0.41
1:A:2268[B]:GLN:H	1:A:2268[B]:GLN:HG3	1.49	0.41
1:A:2638:LYS:O	1:A:2641:LEU:HB2	2.21	0.41
1:A:2816:MET:HG2	1:A:2821:TRP:HE3	1.86	0.41
1:A:3401:LEU:HD22	1:A:3451:PHE:CE1	2.56	0.41
1:A:3465:ASN:C	1:A:3467:MET:H	2.29	0.41
1:A:3508:SER:HB3	1:A:3511:VAL:HG22	2.03	0.41
1:A:3713:LYS:HE3	1:A:3717:ASP:OD2	2.21	0.41
1:A:3752:SER:OG	1:A:3755:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.55	0.41
1:A:3835:LEU:HA	1:A:3838:THR:HG22	2.02	0.41
1:A:4001:MET:HE1	1:A:4061:PHE:HB2	2.02	0.41
1:A:4044:MET:O	1:A:4048:LEU:HG	2.20	0.41
1:A:4868:ASP:OD1	1:A:4868:ASP:N	2.54	0.41
1:A:4926:VAL:HG13	1:D:4933:GLN:HG3	2.01	0.41
1:A:5011:TRP:O	1:A:5015:GLN:HG2	2.21	0.41
2:H:40:ARG:HH22	2:H:102:GLU:HG2	1.85	0.41
2:F:73:LYS:HD2	2:F:73:LYS:HA	1.88	0.41
1:B:110:ARG:NH1	1:B:115:ARG:HE	2.19	0.41
1:B:219:VAL:CG1	1:B:259:LEU:HB3	2.51	0.41
1:B:551:LEU:HA	1:B:560:ILE:HG21	2.03	0.41
1:B:563:VAL:O	1:B:567:VAL:HG23	2.21	0.41
1:B:732:SER:N	1:B:735:GLN:OE1	2.53	0.41
1:B:754:SER:HA	1:B:768:PHE:O	2.21	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HB3	2.03	0.41
1:B:923:GLN:NE2	1:B:924:MET:SD	2.94	0.41
1:B:1103:GLY:HA3	1:B:1123:VAL:HG12	2.02	0.41
1:B:1547:LYS:HE2	1:B:1645:ASN:HB2	2.03	0.41
1:B:1868:PRO:O	1:B:1872:THR:HG23	2.20	0.41
1:B:1992:ALA:O	1:B:1995:THR:OG1	2.34	0.41
1:B:1997:GLU:HG3	1:B:2008:MET:HE3	2.03	0.41
1:B:2300:SER:HA	1:B:2360:LYS:HE2	2.03	0.41
1:B:2669:GLU:HG2	1:B:2672:LEU:HD12	2.03	0.41
1:B:2694:GLU:O	1:B:2697:ARG:HG3	2.20	0.41
1:B:2816:MET:HG2	1:B:2821:TRP:HE3	1.86	0.41
1:B:3107:VAL:HB	1:B:3175:LEU:HD11	2.03	0.41
1:B:3173:TYR:O	1:B:3177:THR:HG23	2.21	0.41
1:B:3182:TYR:O	1:B:3185:LYS:HG2	2.21	0.41
1:B:3443:ILE:HG12	1:B:3605:HIS:CD2	2.56	0.41
1:B:3465:ASN:C	1:B:3467:MET:H	2.29	0.41
1:B:3713:LYS:HE3	1:B:3717:ASP:OD2	2.21	0.41
1:B:4189:ARG:NH1	1:B:4189:ARG:CB	2.84	0.41
1:B:4227:GLU:O	1:B:4230:LYS:HB3	2.21	0.41
1:B:4885:PHE:CZ	1:B:4889:VAL:HG21	2.55	0.41
1:B:4892:ARG:NH1	1:C:4898:GLY:H	2.16	0.41
1:D:21:VAL:HG12	1:D:66:CYS:HA	2.02	0.41
1:D:273:HIS:HB3	1:D:337:PRO:HA	2.02	0.41
1:D:475:GLN:HB3	1:D:533:ASN:ND2	2.36	0.41
1:D:522:LEU:HD23	1:D:522:LEU:HA	1.88	0.41
1:D:636:ASN:HA	1:D:1693:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:786:GLY:N	1:D:1630:CYS:O	2.54	0.41
1:D:1068:ARG:HA	1:D:1071:ARG:HB3	2.02	0.41
1:D:2182:ILE:C	1:D:2234:ARG:HH22	2.29	0.41
1:D:2251:PHE:HE1	1:D:2290:LEU:HD23	1.86	0.41
1:D:2768:PHE:HE2	1:D:2857:PRO:HG2	1.86	0.41
1:D:2802:LYS:HA	1:D:2802:LYS:HD3	1.67	0.41
1:D:3150:HIS:HB3	1:D:3152:PHE:CZ	2.56	0.41
1:D:3508:SER:HB3	1:D:3511:VAL:HG22	2.03	0.41
1:D:3587:ASP:HA	1:D:3591:LYS:HE3	2.02	0.41
1:D:4001:MET:HE1	1:D:4061:PHE:HB2	2.02	0.41
1:D:4090:LYS:HB2	1:D:4121:GLU:HB3	2.02	0.41
1:D:4554:TYR:HA	1:D:4557:ARG:NH2	2.36	0.41
1:D:4747:SER:HA	1:D:4750:ILE:HG12	2.02	0.41
1:D:4865:LYS:HD3	1:D:4865:LYS:HA	1.75	0.41
1:D:4885:PHE:CZ	1:D:4889:VAL:HG21	2.55	0.41
1:D:4930:ALA:HB1	1:C:4937:ILE:HD11	2.02	0.41
1:C:21:VAL:HG12	1:C:66:CYS:HA	2.02	0.41
1:C:54:ASN:OD1	1:C:57:ASN:N	2.32	0.41
1:C:375:LYS:HD2	1:C:376:ALA:H	1.85	0.41
1:C:616:SER:O	1:C:620:LEU:HG	2.21	0.41
1:C:645:ARG:NH2	1:C:826:ILE:HG23	2.34	0.41
1:C:650:VAL:O	1:C:777:PHE:N	2.37	0.41
1:C:938:HIS:HB2	1:C:1054:GLU:HB3	2.03	0.41
1:C:1023:PRO:HB3	1:C:1025:ARG:NH1	2.36	0.41
1:C:1670:TYR:CD2	1:C:1685:LEU:HD11	2.56	0.41
1:C:1773:PRO:HD3	1:C:2156:LEU:HD21	2.02	0.41
1:C:1997:GLU:HG3	1:C:2008:MET:HE3	2.03	0.41
1:C:2106:ALA:CB	1:C:3697:PRO:HG3	2.51	0.41
1:C:2251:PHE:HA	1:C:2254:LEU:HB2	2.02	0.41
1:C:2639:MET:HG2	1:C:2640:PRO:CD	2.35	0.41
1:C:2863:SER:HB3	1:C:2924:GLN:NE2	2.35	0.41
1:C:2974:ILE:HG13	1:C:2975:ALA:N	2.36	0.41
1:C:3078:ARG:O	1:C:3082:LYS:HG3	2.21	0.41
1:C:3150:HIS:HB3	1:C:3152:PHE:CZ	2.56	0.41
1:C:3401:LEU:HD22	1:C:3451:PHE:CE1	2.56	0.41
1:C:3465:ASN:C	1:C:3467:MET:H	2.29	0.41
1:C:3508:SER:O	1:C:3511:VAL:HG22	2.20	0.41
1:C:3850:GLN:O	1:C:3853:ALA:HB3	2.20	0.41
1:A:222:LEU:HD23	1:A:222:LEU:HA	1.86	0.41
1:A:475:GLN:HB3	1:A:533:ASN:ND2	2.36	0.41
1:A:636:ASN:HA	1:A:1693:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1439:VAL:HB	1:A:1514:LEU:HB3	2.03	0.41
1:A:1466:LEU:O	1:A:1469:VAL:HG22	2.21	0.41
1:A:2694:GLU:HA	1:A:2697:ARG:HG3	2.03	0.41
1:A:3182:TYR:O	1:A:3185:LYS:HG2	2.21	0.41
1:A:4003:LEU:HD21	1:A:4012:LEU:HD23	2.02	0.41
1:A:4189:ARG:NH1	1:A:4189:ARG:CB	2.84	0.41
2:F:40:ARG:HH22	2:F:102:GLU:HG2	1.85	0.41
1:B:107:ILE:N	1:B:148:TRP:O	2.26	0.41
1:B:526:LEU:O	1:B:530:ILE:HG23	2.21	0.41
1:B:636:ASN:HA	1:B:1693:GLN:HE21	1.86	0.41
1:B:879:HIS:CE1	1:B:913:LEU:HD13	2.56	0.41
1:B:1255:TYR:CE1	1:B:1274:HIS:HD2	2.40	0.41
1:B:1924:GLU:OE2	1:B:1924:GLU:N	2.54	0.41
1:B:1970:GLN:O	1:B:3642:TYR:HB3	2.21	0.41
1:B:2101:MET:HG3	1:B:2102:VAL:N	2.36	0.41
1:B:2251:PHE:HA	1:B:2254:LEU:HB2	2.02	0.41
1:B:2299:VAL:HG13	1:B:2360:LYS:NZ	2.36	0.41
1:B:2453:ILE:O	1:B:2457:LEU:HG	2.20	0.41
1:B:2863:SER:HB3	1:B:2924:GLN:NE2	2.35	0.41
1:B:2974:ILE:HG13	1:B:2975:ALA:N	2.36	0.41
1:B:3150:HIS:HB3	1:B:3152:PHE:CZ	2.56	0.41
1:B:4999:ASP:HB3	1:B:5002:GLU:HG2	2.03	0.41
1:D:232:THR:HG22	1:D:233:ILE:O	2.21	0.41
1:D:3066:ASN:HA	1:D:3069:HIS:CD2	2.53	0.41
1:D:3182:TYR:O	1:D:3185:LYS:HG2	2.21	0.41
1:D:3539:ARG:HH22	1:D:3548:GLU:HG3	1.86	0.41
1:D:3554:GLN:HA	1:D:3557:LEU:HD13	2.03	0.41
1:D:4227:GLU:O	1:D:4230:LYS:HB3	2.21	0.41
1:D:4554:TYR:HD1	1:D:4557:ARG:NH2	2.19	0.41
1:C:475:GLN:HB3	1:C:533:ASN:ND2	2.36	0.41
1:C:879:HIS:CE1	1:C:913:LEU:HD13	2.56	0.41
1:C:1547:LYS:HE2	1:C:1645:ASN:HB2	2.03	0.41
1:C:1973:GLN:HE22	1:C:3641:LEU:H	1.68	0.41
1:C:2598:ALA:O	1:C:2602:VAL:HG23	2.21	0.41
1:C:2912:THR:HG22	1:C:2914:LYS:H	1.86	0.41
1:C:3509:LEU:HD23	1:C:3509:LEU:HA	1.90	0.41
1:C:4158:PRO:HG2	1:C:4159:ARG:HH12	1.86	0.41
1:C:4230:LYS:HD2	1:C:4959:PHE:CE1	2.56	0.41
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	2.03	0.41
1:C:4961:CYS:SG	1:C:4978:HIS:NE2	2.94	0.41
1:C:4999:ASP:HB3	1:C:5002:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:375:LYS:HD2	1:A:376:ALA:H	1.85	0.40
1:A:461:HIS:HB2	1:A:3707:ARG:NH1	2.36	0.40
1:A:483:MET:HE2	1:A:483:MET:HB3	1.85	0.40
1:A:1815:LEU:HD12	1:A:1815:LEU:HA	1.91	0.40
1:A:2626:LEU:O	1:A:2629:ASP:N	2.53	0.40
1:A:2710:LEU:HD21	1:A:2714:TYR:HH	1.85	0.40
1:A:3068:LEU:HD23	1:A:3068:LEU:HA	1.91	0.40
1:A:3150:HIS:HB3	1:A:3152:PHE:CZ	2.56	0.40
1:A:3160:ASP:OD1	1:A:3161:VAL:N	2.54	0.40
1:A:3173:TYR:O	1:A:3177:THR:HG23	2.21	0.40
1:A:3539:ARG:HH22	1:A:3548:GLU:HG3	1.86	0.40
1:B:475:GLN:HB3	1:B:533:ASN:ND2	2.36	0.40
1:B:546:TRP:O	1:B:550:LYS:HE2	2.21	0.40
1:B:597:HIS:HB3	1:B:1661:ARG:CZ	2.51	0.40
1:B:1252:HIS:CE1	1:B:1255:TYR:HD2	2.30	0.40
1:B:3209:GLN:OE1	1:B:3209:GLN:N	2.49	0.40
1:B:3339:ALA:O	1:B:3343:GLN:HG2	2.21	0.40
1:B:3725:TYR:HA	1:B:3728:ILE:HD12	2.03	0.40
1:B:3835:LEU:HA	1:B:3838:THR:HG22	2.02	0.40
1:B:4147:LEU:HD23	1:B:4147:LEU:HA	1.89	0.40
1:B:4212:GLU:O	1:B:4216:GLN:HG2	2.21	0.40
1:D:110:ARG:NH1	1:D:115:ARG:HE	2.19	0.40
1:D:203:ASN:HA	1:D:204:PRO:HD3	1.83	0.40
1:D:533:ASN:HD22	1:D:536:ASN:ND2	2.19	0.40
1:D:879:HIS:CE1	1:D:913:LEU:HD13	2.56	0.40
1:D:916:PRO:HA	1:D:919:ASN:HB2	2.04	0.40
1:D:1023:PRO:HB3	1:D:1025:ARG:NH1	2.36	0.40
1:D:1252:HIS:CE1	1:D:1255:TYR:HD2	2.29	0.40
1:D:1973:GLN:HE22	1:D:3641:LEU:H	1.68	0.40
1:D:2024:PRO:O	1:D:2028:ARG:HG3	2.21	0.40
1:D:2463:LEU:HA	1:D:2466:LEU:HD13	2.03	0.40
1:D:2978:GLU:HA	1:D:2981:VAL:HB	2.03	0.40
1:D:3514:LEU:HA	1:D:3517:MET:SD	2.62	0.40
1:D:3840:SER:OG	1:D:3877:ASP:OD1	2.28	0.40
1:C:597:HIS:HB3	1:C:1661:ARG:CZ	2.51	0.40
1:C:868:GLU:O	1:C:871:ARG:HB3	2.21	0.40
1:C:894:GLY:HA3	1:C:903:LEU:HB3	2.03	0.40
1:C:923:GLN:NE2	1:C:924:MET:SD	2.94	0.40
1:C:1924:GLU:OE2	1:C:1924:GLU:N	2.54	0.40
1:C:1960:ALA:O	1:C:1964:ARG:HG3	2.22	0.40
1:C:1992:ALA:HB1	1:C:1996:ARG:NH2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2268[A]:GLN:H	1:C:2268[A]:GLN:HG3	1.51	0.40
1:C:2694:GLU:HA	1:C:2697:ARG:HG3	2.03	0.40
1:C:3986:TRP:HE3	1:C:4047:MET:CE	2.33	0.40
1:C:4212:GLU:O	1:C:4216:GLN:HG2	2.21	0.40
1:C:4661:TYR:HH	1:C:4788:SER:HG	1.60	0.40
1:C:4944:ARG:HE	1:C:4944:ARG:HB3	1.74	0.40
1:C:5011:TRP:O	1:C:5015:GLN:HG2	2.21	0.40
1:A:219:VAL:HG11	1:A:259:LEU:HB3	2.02	0.40
1:A:867:LEU:HD11	1:A:939:VAL:HG11	2.03	0.40
1:A:1088:TRP:HB2	1:A:1153:ILE:HG22	2.02	0.40
1:A:1703:LEU:HD23	1:A:1704:PRO:O	2.20	0.40
1:A:1868:PRO:O	1:A:1872:THR:HG23	2.20	0.40
1:A:2101:MET:HG3	1:A:2102:VAL:N	2.36	0.40
1:A:2294:ASP:HA	1:A:2297:LYS:HZ3	1.87	0.40
1:A:2598:ALA:O	1:A:2602:VAL:HG23	2.21	0.40
1:A:2880:GLU:HA	1:A:2908:TYR:HE2	1.86	0.40
1:A:2974:ILE:HG13	1:A:2975:ALA:N	2.36	0.40
1:A:3443:ILE:HG12	1:A:3605:HIS:CD2	2.55	0.40
1:A:3859:VAL:HA	1:A:3866:ILE:HA	2.03	0.40
1:A:4067:LYS:O	1:A:4071:ILE:HG12	2.22	0.40
1:A:4227:GLU:O	1:A:4230:LYS:HB3	2.21	0.40
1:A:4928:LEU:O	1:A:4931:ILE:N	2.54	0.40
2:G:42:ARG:NH2	1:C:1780:PRO:HB2	2.36	0.40
1:B:616:SER:O	1:B:620:LEU:HG	2.21	0.40
1:B:769:GLU:OE2	1:B:1473:THR:HG22	2.21	0.40
1:B:1943:LEU:HD21	1:B:2098:VAL:HG21	2.03	0.40
1:B:1960:ALA:O	1:B:1964:ARG:HG3	2.22	0.40
1:B:2487:GLN:HE22	1:B:2490:MET:HE1	1.86	0.40
1:B:2768:PHE:HE2	1:B:2857:PRO:HG2	1.86	0.40
1:B:2978:GLU:HA	1:B:2981:VAL:HB	2.03	0.40
1:B:3178:THR:C	1:B:3179:LYS:HD3	2.46	0.40
1:B:3554:GLN:HA	1:B:3557:LEU:HD13	2.03	0.40
1:B:3992:PHE:HB2	1:B:4023:MET:HE1	2.02	0.40
1:B:4247:ILE:O	1:B:4251:ILE:HG23	2.22	0.40
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.56	0.40
1:D:597:HIS:HB3	1:D:1661:ARG:CZ	2.51	0.40
1:D:1088:TRP:HE3	1:D:1226:PHE:HA	1.86	0.40
1:D:1109:LEU:HD11	1:D:1605:TRP:HZ2	1.87	0.40
1:D:1924:GLU:OE2	1:D:1924:GLU:N	2.54	0.40
1:D:2351:ASN:O	1:D:2355:ARG:HG2	2.21	0.40
1:D:3160:ASP:OD1	1:D:3161:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3210:LEU:HB3	1:D:3303:PRO:O	2.22	0.40
1:D:3348:ARG:HH12	1:D:3350:ARG:HH12	1.69	0.40
1:D:3817:LEU:HG	1:D:3821:LYS:HD2	2.02	0.40
1:D:3835:LEU:HA	1:D:3838:THR:HG22	2.02	0.40
1:D:3850:GLN:O	1:D:3853:ALA:HB3	2.20	0.40
1:D:3992:PHE:HB2	1:D:4023:MET:HE1	2.02	0.40
1:D:4928:LEU:O	1:D:4931:ILE:N	2.54	0.40
1:C:546:TRP:O	1:C:550:LYS:HE2	2.21	0.40
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	2.02	0.40
1:C:1088:TRP:HB2	1:C:1153:ILE:HG22	2.03	0.40
1:C:1422:ASP:HA	1:C:1570:LYS:HE2	2.03	0.40
1:C:1466:LEU:O	1:C:1469:VAL:HG22	2.21	0.40
1:C:3539:ARG:NH2	1:C:3548:GLU:HG3	2.36	0.40
1:C:3725:TYR:HA	1:C:3728:ILE:HD12	2.02	0.40
1:A:21:VAL:HG12	1:A:66:CYS:HA	2.02	0.40
1:A:546:TRP:O	1:A:550:LYS:HE2	2.21	0.40
1:A:588:SER:C	1:A:592:LYS:HZ2	2.29	0.40
1:A:754:SER:HA	1:A:768:PHE:O	2.21	0.40
1:A:879:HIS:CE1	1:A:913:LEU:HD13	2.56	0.40
1:A:1106:ARG:HB3	1:A:1108:GLU:OE1	2.21	0.40
1:A:1997:GLU:HG3	1:A:2008:MET:HE3	2.03	0.40
1:A:2258:LEU:HD23	1:A:2258:LEU:HA	1.93	0.40
1:A:2463:LEU:HA	1:A:2466:LEU:HD13	2.03	0.40
1:A:2912:THR:HG22	1:A:2914:LYS:H	1.86	0.40
1:A:2978:GLU:HA	1:A:2981:VAL:HB	2.03	0.40
1:A:3188:PRO:HD3	1:A:3271:GLU:OE2	2.22	0.40
1:A:3340:VAL:HA	1:A:3343:GLN:HG2	2.02	0.40
1:A:3725:TYR:HA	1:A:3728:ILE:HD12	2.03	0.40
1:A:3848:GLU:HB3	1:A:3852:LYS:NZ	2.36	0.40
1:A:3953:LYS:O	1:A:3957:VAL:HG23	2.22	0.40
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.21	0.40
1:A:4230:LYS:HD2	1:A:4959:PHE:CE1	2.57	0.40
1:A:4686:LEU:O	1:A:4690:GLU:N	2.55	0.40
1:B:375:LYS:HD2	1:B:376:ALA:H	1.85	0.40
1:B:461:HIS:HB2	1:B:3707:ARG:NH1	2.36	0.40
1:B:2136:ARG:O	1:B:2139:PRO:HD2	2.21	0.40
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.22	0.40
1:B:2758:PHE:HD2	1:B:2809:ILE:HG21	1.86	0.40
1:B:3050:VAL:HG12	1:B:3131:TYR:HE1	1.87	0.40
1:B:3777:GLU:O	1:B:3781:GLN:HG3	2.22	0.40
1:B:3953:LYS:O	1:B:3957:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4003:LEU:HD21	1:B:4012:LEU:HD23	2.02	0.40
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.21	0.40
1:B:4947:GLN:HB3	1:B:4951:LYS:HZ3	1.84	0.40
1:B:4958:CYS:CB	1:B:4961:CYS:HB2	2.52	0.40
1:D:182:LEU:HD12	1:D:182:LEU:HA	1.88	0.40
1:D:228:ASP:OD1	1:D:229:GLU:N	2.54	0.40
1:D:526:LEU:O	1:D:530:ILE:HG23	2.21	0.40
1:D:754:SER:HA	1:D:768:PHE:O	2.21	0.40
1:D:1035:ASN:O	1:D:1039:LEU:HG	2.22	0.40
1:D:1103:GLY:HA3	1:D:1123:VAL:HG12	2.02	0.40
1:D:1945:TYR:CZ	1:D:1949:GLN:NE2	2.86	0.40
1:D:2299:VAL:HG13	1:D:2360:LYS:NZ	2.36	0.40
1:D:2578:MET:HE2	1:D:2581:SER:OG	2.21	0.40
1:D:2598:ALA:O	1:D:2602:VAL:HG23	2.21	0.40
1:D:2669:GLU:HG2	1:D:2672:LEU:HD12	2.03	0.40
1:D:3595:ARG:O	1:D:3599:VAL:HG22	2.21	0.40
1:D:4032:GLU:OE2	1:D:5004:THR:HB	2.20	0.40
1:C:732:SER:N	1:C:735:GLN:OE1	2.54	0.40
1:C:1421:ARG:HD3	1:C:1421:ARG:HA	1.92	0.40
1:C:2255:SER:HA	1:C:2258:LEU:HB2	2.04	0.40
1:C:3143:LEU:HD13	1:C:3146:HIS:CE1	2.47	0.40
1:C:3848:GLU:HB3	1:C:3852:LYS:NZ	2.36	0.40
1:C:4067:LYS:HB3	1:C:4103:PHE:CZ	2.56	0.40
1:A:526:LEU:HD12	1:A:526:LEU:HA	1.87	0.40
1:A:526:LEU:O	1:A:530:ILE:HG23	2.21	0.40
1:A:548:VAL:HG21	1:A:582:HIS:CE1	2.57	0.40
1:A:1032:LYS:O	1:A:1036:ARG:NE	2.47	0.40
1:A:1109:LEU:HD11	1:A:1605:TRP:HZ2	1.87	0.40
1:A:1255:TYR:CE1	1:A:1274:HIS:HD2	2.40	0.40
1:A:1515:VAL:O	1:A:1532:ASN:HA	2.20	0.40
1:A:1670:TYR:CD2	1:A:1685:LEU:HD11	2.56	0.40
1:A:2126:ARG:HG2	1:A:2133:GLU:OE2	2.22	0.40
1:A:2251:PHE:HE1	1:A:2290:LEU:HD23	1.86	0.40
1:A:2299:VAL:HG13	1:A:2360:LYS:NZ	2.36	0.40
1:A:2487:GLN:HE22	1:A:2490:MET:HE1	1.86	0.40
1:A:2807:TRP:HB3	1:A:2808:PRO:HD3	2.03	0.40
1:A:3539:ARG:NH2	1:A:3548:GLU:HG3	2.36	0.40
1:A:3579:LEU:HD12	1:A:3582:ARG:H	1.86	0.40
1:A:3777:GLU:O	1:A:3781:GLN:HG3	2.21	0.40
1:A:3944:GLU:CD	1:A:3947:GLY:H	2.28	0.40
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3959:LYS:NZ	1:A:4018:ASP:HB3	2.37	0.40
1:A:4158:PRO:HG2	1:A:4159:ARG:HH12	1.86	0.40
1:A:4554:TYR:HA	1:A:4557:ARG:NH2	2.36	0.40
2:E:40:ARG:HH22	2:E:102:GLU:HG2	1.85	0.40
1:B:588:SER:C	1:B:592:LYS:HZ2	2.29	0.40
1:B:829:TYR:O	1:B:840:VAL:N	2.49	0.40
1:B:867:LEU:HD11	1:B:939:VAL:HG11	2.03	0.40
1:B:955:LEU:HD23	1:B:955:LEU:HA	1.86	0.40
1:B:1294:PRO:HD3	1:B:1643:GLU:HG2	2.04	0.40
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.68	0.40
1:B:1984:PHE:CD1	1:B:1991:THR:HG21	2.57	0.40
1:B:2578:MET:HE2	1:B:2581:SER:OG	2.21	0.40
1:B:2694:GLU:HA	1:B:2697:ARG:HG3	2.03	0.40
1:B:2763:HIS:HB2	1:B:2802:LYS:HZ3	1.85	0.40
1:B:2766:TRP:O	1:B:2770:LYS:HG2	2.21	0.40
1:B:3210:LEU:HB3	1:B:3303:PRO:O	2.22	0.40
1:B:3366:ARG:NH2	1:B:3367:LYS:HA	2.37	0.40
1:B:3401:LEU:HD22	1:B:3451:PHE:CE1	2.56	0.40
1:B:4141:PHE:O	1:B:4145:VAL:HG23	2.22	0.40
1:B:4241:THR:C	1:B:4245:MET:HE3	2.46	0.40
1:B:4747:SER:HA	1:B:4750:ILE:HG12	2.02	0.40
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	2.03	0.40
1:B:5011:TRP:O	1:B:5015:GLN:HG2	2.21	0.40
1:D:20:VAL:HG23	1:D:202:MET:HE2	2.04	0.40
1:D:592:LYS:HG3	1:D:593:HIS:ND1	2.36	0.40
1:D:835:ARG:HH12	1:D:1095:VAL:HG21	1.87	0.40
1:D:1134:LEU:O	1:D:1134:LEU:HD23	2.22	0.40
1:D:2101:MET:HG3	1:D:2102:VAL:N	2.36	0.40
1:D:2126:ARG:HG2	1:D:2133:GLU:OE2	2.22	0.40
1:D:2264:GLY:HA2	1:D:2267:MET:HG3	2.03	0.40
1:D:2974:ILE:HG13	1:D:2975:ALA:N	2.36	0.40
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.21	0.40
1:D:4230:LYS:HD2	1:D:4959:PHE:CE1	2.57	0.40
1:C:20:VAL:HG23	1:C:202:MET:HE2	2.04	0.40
1:C:222:LEU:HD23	1:C:222:LEU:HA	1.86	0.40
1:C:820:ARG:NH1	1:C:821:LEU:HB3	2.37	0.40
1:C:835:ARG:HH12	1:C:1095:VAL:HG21	1.86	0.40
1:C:916:PRO:HA	1:C:919:ASN:HB2	2.04	0.40
1:C:1035:ASN:O	1:C:1039:LEU:HG	2.22	0.40
1:C:1109:LEU:HD11	1:C:1605:TRP:HZ2	1.87	0.40
1:C:1255:TYR:CE1	1:C:1274:HIS:HD2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2299:VAL:HG13	1:C:2360:LYS:NZ	2.36	0.40
1:C:2480:GLY:O	1:C:2484:ALA:N	2.47	0.40
1:C:2758:PHE:HD2	1:C:2809:ILE:HG21	1.86	0.40
1:C:2884:ASN:OD1	1:C:2888:ARG:NH1	2.55	0.40
1:C:3078:ARG:NH2	1:C:3151:GLN:O	2.54	0.40
1:C:3084:GLY:HA3	1:C:3089:LYS:NZ	2.37	0.40
1:C:3103:ILE:HD12	1:C:3103:ILE:HA	1.99	0.40
1:C:3123:LYS:HZ2	1:C:3126:GLY:N	2.19	0.40
1:C:3339:ALA:O	1:C:3343:GLN:HG2	2.21	0.40
1:C:4001:MET:HE1	1:C:4061:PHE:HB2	2.02	0.40
1:C:4003:LEU:HD21	1:C:4012:LEU:HD23	2.02	0.40
1:A:156:GLN:NE2	1:D:385:ASP:OD1	2.54	0.40
1:A:1422:ASP:HA	1:A:1570:LYS:HE2	2.03	0.40
1:A:1501:VAL:HB	1:A:1508:ARG:NH2	2.30	0.40
1:A:1943:LEU:HD21	1:A:2098:VAL:HG21	2.03	0.40
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.21	0.40
1:A:3178:THR:C	1:A:3179:LYS:HD3	2.46	0.40
1:A:3842:LEU:HD23	1:A:3875:MET:HE3	2.04	0.40
1:A:4716:TRP:CZ2	6:A:5304:PNX:HAI2	2.57	0.40
1:B:277:GLY:HA2	1:B:315:CYS:HB2	2.04	0.40
1:B:533:ASN:HD22	1:B:536:ASN:ND2	2.19	0.40
1:B:856:VAL:HB	1:B:991:ASN:ND2	2.35	0.40
1:B:1109:LEU:HD11	1:B:1605:TRP:HZ2	1.87	0.40
1:B:2765:LYS:O	1:B:2768:PHE:HB2	2.22	0.40
1:B:2769:ASP:O	1:B:2772:GLN:HB3	2.22	0.40
1:B:2884:ASN:OD1	1:B:2888:ARG:NH1	2.55	0.40
1:B:3296:LEU:HB3	1:B:3297:PRO:HD3	2.04	0.40
1:B:3508:SER:HB3	1:B:3511:VAL:HG22	2.03	0.40
1:B:3721:LEU:HD12	1:B:3721:LEU:HA	1.83	0.40
1:B:3859:VAL:HA	1:B:3866:ILE:HA	2.03	0.40
1:B:4067:LYS:HB3	1:B:4103:PHE:CZ	2.56	0.40
1:B:4151:SER:HA	1:B:4160:LEU:HD21	2.04	0.40
1:B:4658:ILE:CG1	1:B:4796:MET:HE3	2.52	0.40
1:B:4686:LEU:O	1:B:4690:GLU:N	2.55	0.40
1:B:4711:PHE:O	1:B:4713:SER:N	2.53	0.40
1:B:4716:TRP:CZ2	6:B:5304:PNX:HAI2	2.57	0.40
1:B:4928:LEU:O	1:B:4931:ILE:N	2.54	0.40
1:D:548:VAL:HG21	1:D:582:HIS:CE1	2.57	0.40
1:D:645:ARG:NH2	1:D:826:ILE:HG23	2.34	0.40
1:D:1419:ASP:HB3	1:D:1420:ASN:H	1.67	0.40
1:D:2113:SER:OG	1:D:2116:LEU:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2369[A]:ARG:HE	1:D:2369[A]:ARG:HB2	1.69	0.40
1:D:2694:GLU:HA	1:D:2697:ARG:HG3	2.03	0.40
1:D:2964:LEU:HD23	1:D:2964:LEU:HA	1.97	0.40
1:D:3188:PRO:HD3	1:D:3271:GLU:OE2	2.22	0.40
1:D:3825:GLU:CD	1:D:3827:GLY:H	2.30	0.40
1:C:39:ALA:H	1:C:111:HIS:CD2	2.40	0.40
1:C:2123:LEU:HD12	1:C:2123:LEU:HA	1.93	0.40
1:C:2309:SER:HA	1:C:2324:ASN:HB2	2.04	0.40
1:C:2578:MET:HE2	1:C:2581:SER:OG	2.21	0.40
1:C:2978:GLU:HA	1:C:2981:VAL:HB	2.03	0.40
1:C:3296:LEU:HB3	1:C:3297:PRO:HD3	2.04	0.40
1:C:3427:PRO:HB3	1:C:3432:GLU:OE2	2.21	0.40
1:C:3514:LEU:HA	1:C:3517:MET:SD	2.62	0.40
1:C:3554:GLN:HA	1:C:3557:LEU:HD13	2.03	0.40
1:C:3980:LEU:HD21	1:C:3985:LEU:HD22	2.04	0.40
1:C:4017:LEU:HD13	1:C:4136:ALA:HA	2.04	0.40
1:C:4032:GLU:OE2	1:C:5004:THR:HB	2.21	0.40
1:C:4241:THR:C	1:C:4245:MET:HE3	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	80
1	B	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	80
1	C	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	80
1	D	4385/5037 (87%)	4261 (97%)	120 (3%)	4 (0%)	48	80
2	E	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	G	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	H	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
All	All	17960/20580 (87%)	17449 (97%)	495 (3%)	16 (0%)	49	80

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	908	VAL
1	A	3300	ALA
1	A	4711	PHE
1	B	908	VAL
1	B	3300	ALA
1	B	4711	PHE
1	D	908	VAL
1	D	3300	ALA
1	D	4711	PHE
1	C	908	VAL
1	C	3300	ALA
1	C	4711	PHE
1	A	2702	CYS
1	B	2702	CYS
1	D	2702	CYS
1	C	2702	CYS

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%)	3795 (99%)	41 (1%)	65	74
1	B	3836/4276 (90%)	3795 (99%)	41 (1%)	65	74
1	C	3836/4276 (90%)	3795 (99%)	41 (1%)	65	74
1	D	3836/4276 (90%)	3795 (99%)	41 (1%)	65	74
2	E	89/90 (99%)	87 (98%)	2 (2%)	45	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	F	89/90 (99%)	87 (98%)	2 (2%)	45	64
2	G	89/90 (99%)	87 (98%)	2 (2%)	45	64
2	H	89/90 (99%)	87 (98%)	2 (2%)	45	64
All	All	15700/17464 (90%)	15528 (99%)	172 (1%)	68	74

All (172) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1071	ARG
1	A	1231[A]	GLN
1	A	1231[B]	GLN
1	A	1260	MET
1	A	1462	MET
1	A	1527	MET
1	A	1573	MET
1	A	1601	MET
1	A	1981	MET
1	A	2101	MET
1	A	2120	MET
1	A	2153	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2369[A]	ARG
1	A	2369[B]	ARG
1	A	2490	MET
1	A	2578	MET
1	A	2584[A]	HIS
1	A	2584[B]	HIS
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2874	MET
1	A	2876	GLU
1	A	2914	LYS
1	A	2932	MET
1	A	2937	VAL
1	A	3201	MET
1	A	3335	MET
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3467	MET
1	A	3517	MET

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Mol	Chain	Res	Type
1	A	4189	ARG
1	A	4231	MET
1	A	4627	MET
1	A	4796	MET
1	A	4865	LYS
1	A	4880	MET
1	A	4887	MET
1	A	4989	MET
2	E	52	LYS
2	E	104	LEU
2	H	52	LYS
2	H	104	LEU
2	G	52	LYS
2	G	104	LEU
2	F	52	LYS
2	F	104	LEU
1	B	1071	ARG
1	B	1231[A]	GLN
1	B	1231[B]	GLN
1	B	1260	MET
1	B	1462	MET
1	B	1527	MET
1	B	1573	MET
1	B	1601	MET
1	B	1981	MET
1	B	2101	MET
1	B	2120	MET
1	B	2153	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2369[A]	ARG
1	B	2369[B]	ARG
1	B	2490	MET
1	B	2578	MET
1	B	2584[A]	HIS
1	B	2584[B]	HIS
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2874	MET
1	B	2876	GLU
1	B	2914	LYS
1	B	2932	MET

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Mol	Chain	Res	Type
1	B	2937	VAL
1	B	3201	MET
1	B	3335	MET
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3467	MET
1	B	3517	MET
1	B	4189	ARG
1	B	4231	MET
1	B	4627	MET
1	B	4796	MET
1	B	4865	LYS
1	B	4880	MET
1	B	4887	MET
1	B	4989	MET
1	D	1071	ARG
1	D	1231[A]	GLN
1	D	1231[B]	GLN
1	D	1260	MET
1	D	1462	MET
1	D	1527	MET
1	D	1573	MET
1	D	1601	MET
1	D	1981	MET
1	D	2101	MET
1	D	2120	MET
1	D	2153	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2369[A]	ARG
1	D	2369[B]	ARG
1	D	2490	MET
1	D	2578	MET
1	D	2584[A]	HIS
1	D	2584[B]	HIS
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2874	MET
1	D	2876	GLU
1	D	2914	LYS
1	D	2932	MET
1	D	2937	VAL

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Mol	Chain	Res	Type
1	D	3201	MET
1	D	3335	MET
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3467	MET
1	D	3517	MET
1	D	4189	ARG
1	D	4231	MET
1	D	4627	MET
1	D	4796	MET
1	D	4865	LYS
1	D	4880	MET
1	D	4887	MET
1	D	4989	MET
1	C	1071	ARG
1	C	1231[A]	GLN
1	C	1231[B]	GLN
1	C	1260	MET
1	C	1462	MET
1	C	1527	MET
1	C	1573	MET
1	C	1601	MET
1	C	1981	MET
1	C	2101	MET
1	C	2120	MET
1	C	2153	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2369[A]	ARG
1	C	2369[B]	ARG
1	C	2490	MET
1	C	2578	MET
1	C	2584[A]	HIS
1	C	2584[B]	HIS
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2874	MET
1	C	2876	GLU
1	C	2914	LYS
1	C	2932	MET
1	C	2937	VAL
1	C	3201	MET

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Mol	Chain	Res	Type
1	C	3335	MET
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3467	MET
1	C	3517	MET
1	C	4189	ARG
1	C	4231	MET
1	C	4627	MET
1	C	4796	MET
1	C	4865	LYS
1	C	4880	MET
1	C	4887	MET
1	C	4989	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (190) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	255	HIS
1	A	349	GLN
1	A	446	GLN
1	A	533	ASN
1	A	576	ASN
1	A	597	HIS
1	A	639	ASN
1	A	705	ASN
1	A	812	HIS
1	A	860	GLN
1	A	994	ASN
1	A	1252	HIS
1	A	1296	GLN
1	A	1532	ASN
1	A	1541	GLN
1	A	1559	GLN
1	A	1629	GLN
1	A	1660	GLN
1	A	1693	GLN
1	A	1760	HIS
1	A	1938	GLN
1	A	2029	GLN
1	A	2092	GLN
1	A	2107	GLN
1	A	2184	ASN

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Mol	Chain	Res	Type
1	A	2187	ASN
1	A	2196	ASN
1	A	2213	ASN
1	A	2260	ASN
1	A	2763	HIS
1	A	2971	GLN
1	A	3145	GLN
1	A	3211	ASN
1	A	3465	ASN
1	A	3611	HIS
1	A	3734	HIS
1	A	3761	GLN
1	A	3882	GLN
1	A	3927	GLN
1	A	4043	GLN
1	A	4246	GLN
1	A	4547	GLN
1	A	4553	ASN
1	A	4776	GLN
1	A	4806	ASN
1	A	5003	HIS
2	E	53	GLN
2	H	53	GLN
2	G	53	GLN
2	F	53	GLN
1	B	255	HIS
1	B	349	GLN
1	B	379	HIS
1	B	446	GLN
1	B	460	GLN
1	B	533	ASN
1	B	576	ASN
1	B	597	HIS
1	B	639	ASN
1	B	705	ASN
1	B	812	HIS
1	B	994	ASN
1	B	1252	HIS
1	B	1296	GLN
1	B	1532	ASN
1	B	1541	GLN
1	B	1559	GLN

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Mol	Chain	Res	Type
1	B	1629	GLN
1	B	1660	GLN
1	B	1693	GLN
1	B	1938	GLN
1	B	2029	GLN
1	B	2092	GLN
1	B	2107	GLN
1	B	2196	ASN
1	B	2213	ASN
1	B	2260	ASN
1	B	2520	HIS
1	B	2763	HIS
1	B	2971	GLN
1	B	3145	GLN
1	B	3211	ASN
1	B	3450	ASN
1	B	3465	ASN
1	B	3611	HIS
1	B	3734	HIS
1	B	3761	GLN
1	B	3882	GLN
1	B	3927	GLN
1	B	4043	GLN
1	B	4216	GLN
1	B	4246	GLN
1	B	4547	GLN
1	B	4553	ASN
1	B	4776	GLN
1	B	4806	ASN
1	B	4832	HIS
1	B	5003	HIS
1	D	255	HIS
1	D	379	HIS
1	D	446	GLN
1	D	533	ASN
1	D	576	ASN
1	D	597	HIS
1	D	639	ASN
1	D	705	ASN
1	D	812	HIS
1	D	860	GLN
1	D	1296	GLN

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Mol	Chain	Res	Type
1	D	1532	ASN
1	D	1541	GLN
1	D	1559	GLN
1	D	1629	GLN
1	D	1660	GLN
1	D	1938	GLN
1	D	2029	GLN
1	D	2092	GLN
1	D	2107	GLN
1	D	2184	ASN
1	D	2187	ASN
1	D	2196	ASN
1	D	2213	ASN
1	D	2260	ASN
1	D	2487	GLN
1	D	2763	HIS
1	D	2971	GLN
1	D	3145	GLN
1	D	3146	HIS
1	D	3211	ASN
1	D	3419	ASN
1	D	3465	ASN
1	D	3611	HIS
1	D	3734	HIS
1	D	3761	GLN
1	D	3882	GLN
1	D	3927	GLN
1	D	4043	GLN
1	D	4246	GLN
1	D	4547	GLN
1	D	4553	ASN
1	D	4776	GLN
1	D	4806	ASN
1	D	5003	HIS
1	C	255	HIS
1	C	349	GLN
1	C	379	HIS
1	C	446	GLN
1	C	460	GLN
1	C	533	ASN
1	C	576	ASN
1	C	597	HIS

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Mol	Chain	Res	Type
1	C	639	ASN
1	C	705	ASN
1	C	812	HIS
1	C	994	ASN
1	C	1252	HIS
1	C	1296	GLN
1	C	1532	ASN
1	C	1541	GLN
1	C	1559	GLN
1	C	1629	GLN
1	C	1660	GLN
1	C	1693	GLN
1	C	1938	GLN
1	C	2029	GLN
1	C	2107	GLN
1	C	2187	ASN
1	C	2196	ASN
1	C	2213	ASN
1	C	2260	ASN
1	C	2487	GLN
1	C	2763	HIS
1	C	2971	GLN
1	C	3145	GLN
1	C	3146	HIS
1	C	3211	ASN
1	C	3465	ASN
1	C	3611	HIS
1	C	3734	HIS
1	C	3761	GLN
1	C	3882	GLN
1	C	3927	GLN
1	C	3960	GLN
1	C	4043	GLN
1	C	4246	GLN
1	C	4547	GLN
1	C	4553	ASN
1	C	4776	GLN
1	C	4806	ASN
1	C	5003	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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
3	ATP	C	5301	-	32,33,33	0.28	0	48,52,52	0.42	0
6	PNX	D	5304	-	21,21,21	1.43	4 (19%)	30,30,30	2.01	10 (33%)
6	PNX	B	5304	-	21,21,21	1.44	4 (19%)	30,30,30	2.03	10 (33%)
6	PNX	A	5304	-	21,21,21	1.44	5 (23%)	30,30,30	2.02	10 (33%)
3	ATP	B	5301	-	32,33,33	0.28	0	48,52,52	0.42	0
3	ATP	A	5301	-	32,33,33	0.28	0	48,52,52	0.42	0
6	PNX	C	5304	-	21,21,21	1.43	4 (19%)	30,30,30	2.02	10 (33%)
3	ATP	D	5301	-	32,33,33	0.28	0	48,52,52	0.42	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
3	ATP	C	5301	-	-	6/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	PNX	D	5304	-	-	4/7/7/7	0/2/2/2
6	PNX	B	5304	-	-	4/7/7/7	0/2/2/2
6	PNX	A	5304	-	-	4/7/7/7	0/2/2/2
3	ATP	B	5301	-	-	6/22/38/38	0/3/3/3
3	ATP	A	5301	-	-	6/22/38/38	0/3/3/3
6	PNX	C	5304	-	-	4/7/7/7	0/2/2/2
3	ATP	D	5301	-	-	6/22/38/38	0/3/3/3

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	5304	PNX	C6-N1	-4.18	1.32	1.40
6	A	5304	PNX	C6-N1	-4.17	1.33	1.40
6	D	5304	PNX	C6-N1	-4.15	1.33	1.40
6	C	5304	PNX	C6-N1	-4.13	1.33	1.40
6	B	5304	PNX	C2-N1	-2.15	1.35	1.38
6	D	5304	PNX	C2-N1	-2.14	1.35	1.38
6	C	5304	PNX	C2-N1	-2.12	1.35	1.38
6	A	5304	PNX	C2-N1	-2.11	1.35	1.38
6	D	5304	PNX	O6-C6	-2.06	1.18	1.23
6	C	5304	PNX	O6-C6	-2.05	1.18	1.23
6	A	5304	PNX	O6-C6	-2.03	1.18	1.23
6	A	5304	PNX	O2-C2	-2.03	1.18	1.22
6	A	5304	PNX	C2-N3	-2.01	1.35	1.39
6	D	5304	PNX	O2-C2	-2.00	1.18	1.22
6	C	5304	PNX	O2-C2	-2.00	1.18	1.22
6	B	5304	PNX	O2-C2	-2.00	1.18	1.22
6	B	5304	PNX	O6-C6	-2.00	1.19	1.23

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5304	PNX	C5-C6-N1	4.30	120.32	112.23
6	C	5304	PNX	C5-C6-N1	4.28	120.28	112.23
6	A	5304	PNX	C5-C6-N1	4.28	120.28	112.23
6	D	5304	PNX	C5-C6-N1	4.25	120.23	112.23
6	B	5304	PNX	C6-C5-C4	-3.98	117.91	122.92
6	D	5304	PNX	C6-C5-C4	-3.96	117.92	122.92
6	A	5304	PNX	C6-C5-C4	-3.96	117.93	122.92
6	C	5304	PNX	C6-C5-C4	-3.94	117.95	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	5304	PNX	N3-C4-N9	3.87	132.36	126.27
6	B	5304	PNX	N3-C4-N9	3.85	132.32	126.27
6	A	5304	PNX	N3-C4-N9	3.84	132.31	126.27
6	D	5304	PNX	N3-C4-N9	3.82	132.28	126.27
6	C	5304	PNX	C6-N1-C2	-3.76	120.99	125.62
6	B	5304	PNX	C6-N1-C2	-3.76	121.00	125.62
6	A	5304	PNX	C6-N1-C2	-3.74	121.01	125.62
6	D	5304	PNX	C6-N1-C2	-3.72	121.04	125.62
6	B	5304	PNX	O6-C6-C5	-3.13	119.96	126.38
6	A	5304	PNX	O6-C6-C5	-3.11	120.02	126.38
6	C	5304	PNX	O6-C6-C5	-3.08	120.06	126.38
6	D	5304	PNX	O6-C6-C5	-3.08	120.08	126.38
6	B	5304	PNX	N1-C2-N3	2.96	120.37	116.72
6	D	5304	PNX	N1-C2-N3	2.94	120.34	116.72
6	A	5304	PNX	N1-C2-N3	2.92	120.32	116.72
6	C	5304	PNX	N1-C2-N3	2.91	120.31	116.72
6	D	5304	PNX	C5-C4-N9	-2.48	107.19	112.10
6	B	5304	PNX	C5-C4-N9	-2.47	107.21	112.10
6	C	5304	PNX	C5-C4-N9	-2.46	107.22	112.10
6	A	5304	PNX	C5-C4-N9	-2.46	107.23	112.10
6	D	5304	PNX	N7-C8-N9	-2.45	109.03	113.48
6	B	5304	PNX	N7-C8-N9	-2.43	109.07	113.48
6	A	5304	PNX	N7-C8-N9	-2.42	109.09	113.48
6	C	5304	PNX	N7-C8-N9	-2.42	109.10	113.48
6	B	5304	PNX	C6-C5-N7	2.34	135.81	131.10
6	A	5304	PNX	C6-C5-N7	2.32	135.76	131.10
6	C	5304	PNX	C6-C5-N7	2.30	135.73	131.10
6	D	5304	PNX	C6-C5-N7	2.30	135.72	131.10
6	B	5304	PNX	C8-N9-C4	2.28	108.46	102.98
6	C	5304	PNX	C8-N9-C4	2.28	108.45	102.98
6	D	5304	PNX	C8-N9-C4	2.28	108.44	102.98
6	A	5304	PNX	C8-N9-C4	2.26	108.41	102.98

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	5304	PNX	CAI-CAH-CAJ-CAM
6	B	5304	PNX	CAI-CAH-CAJ-CAM
6	D	5304	PNX	CAI-CAH-CAJ-CAM
6	C	5304	PNX	CAI-CAH-CAJ-CAM
6	A	5304	PNX	CAH-CAJ-CAM-OAD

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Mol	Chain	Res	Type	Atoms
6	B	5304	PNX	CAH-CAJ-CAM-OAD
6	D	5304	PNX	CAH-CAJ-CAM-OAD
6	C	5304	PNX	CAH-CAJ-CAM-OAD
6	A	5304	PNX	CAH-CAJ-CAM-CAA
6	B	5304	PNX	CAH-CAJ-CAM-CAA
6	D	5304	PNX	CAH-CAJ-CAM-CAA
6	C	5304	PNX	CAH-CAJ-CAM-CAA
6	D	5304	PNX	CAJ-CAH-CAI-CAK
6	C	5304	PNX	CAJ-CAH-CAI-CAK
6	B	5304	PNX	CAJ-CAH-CAI-CAK
6	A	5304	PNX	CAJ-CAH-CAI-CAK
3	A	5301	ATP	PG-O3B-PB-O3A
3	B	5301	ATP	PG-O3B-PB-O3A
3	D	5301	ATP	PG-O3B-PB-O3A
3	C	5301	ATP	PG-O3B-PB-O3A
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
3	A	5301	ATP	O4'-C1'-N9-C8
3	B	5301	ATP	O4'-C1'-N9-C8
3	D	5301	ATP	O4'-C1'-N9-C8
3	C	5301	ATP	O4'-C1'-N9-C8
3	A	5301	ATP	O4'-C1'-N9-C4
3	B	5301	ATP	O4'-C1'-N9-C4
3	D	5301	ATP	O4'-C1'-N9-C4
3	C	5301	ATP	O4'-C1'-N9-C4
3	A	5301	ATP	PG-O3B-PB-O1B
3	B	5301	ATP	PG-O3B-PB-O1B
3	D	5301	ATP	PG-O3B-PB-O1B
3	C	5301	ATP	PG-O3B-PB-O1B
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

There are no ring outliers.

8 monomers are involved in 10 short contacts:

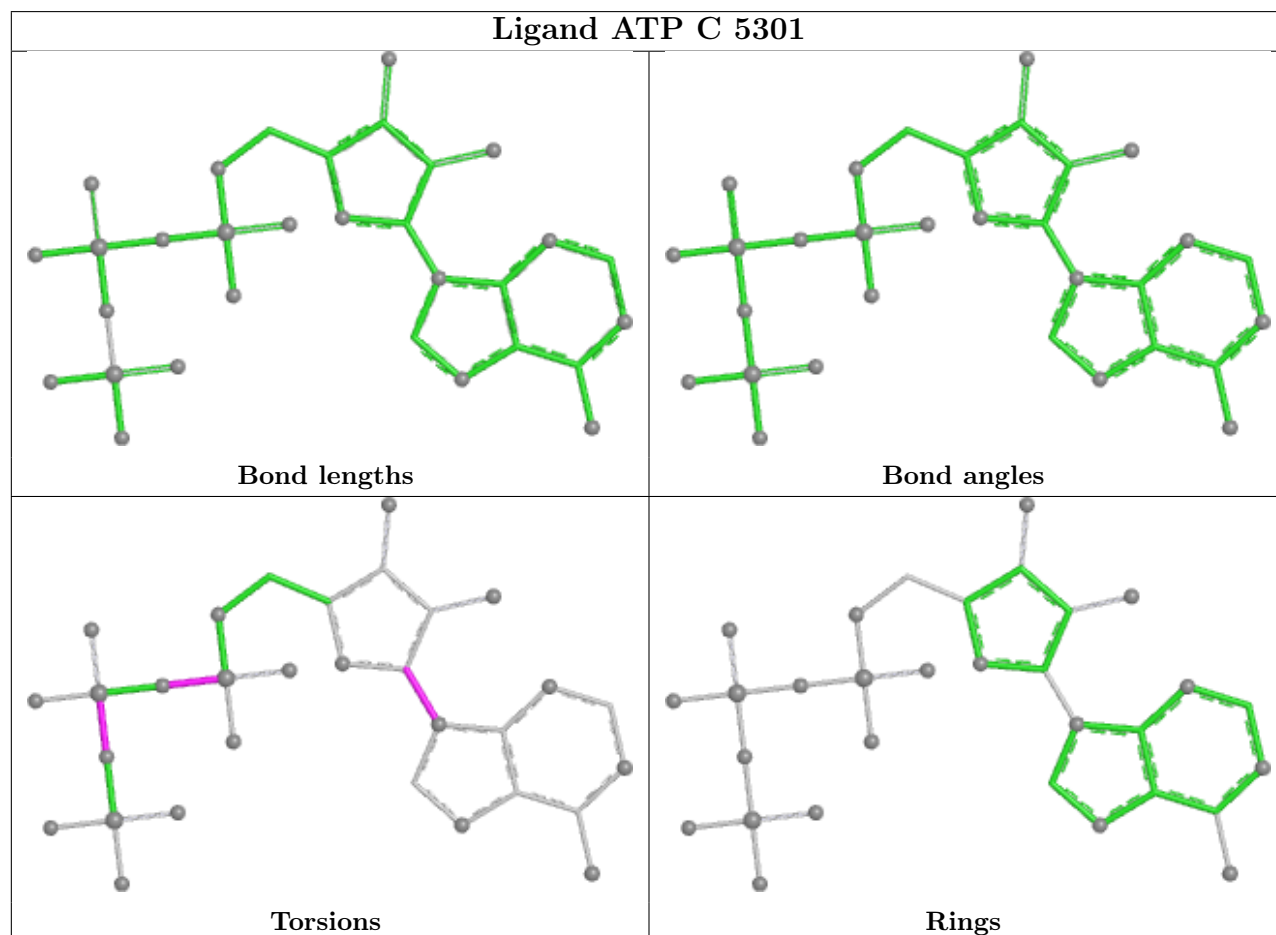
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	5301	ATP	1	0
6	D	5304	PNX	1	0

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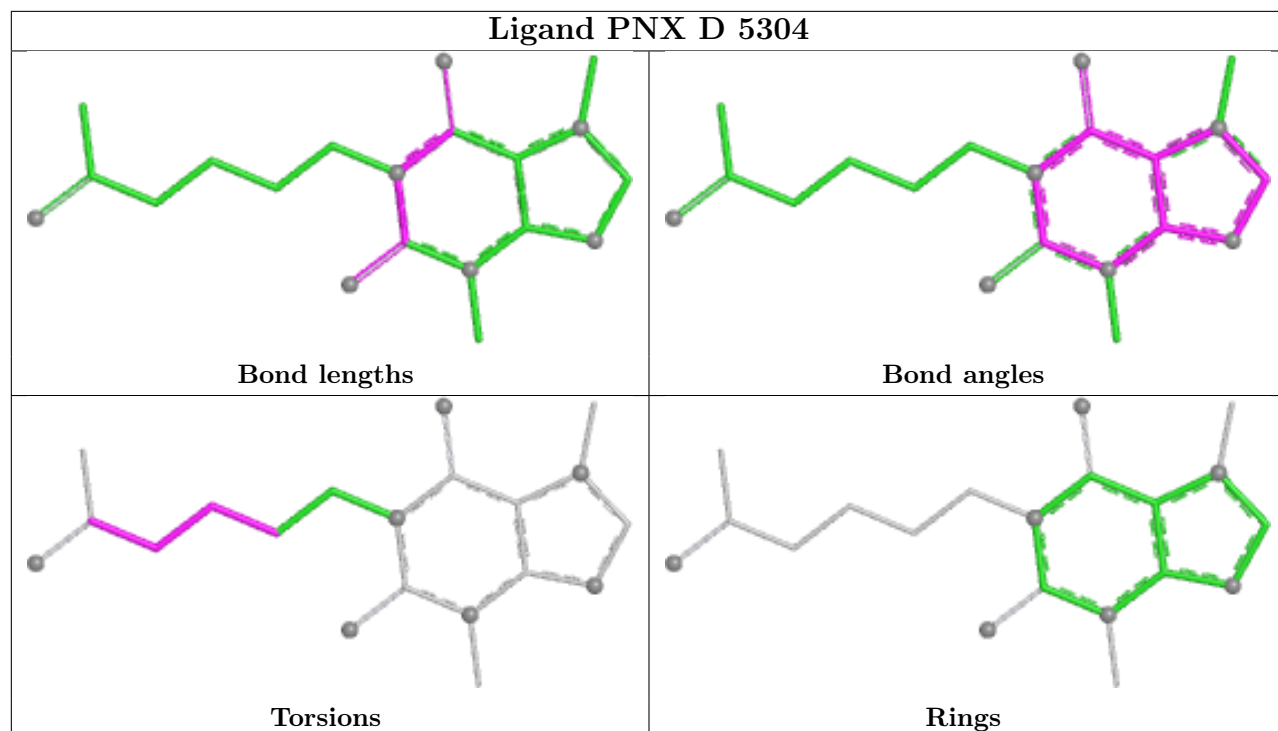
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	5304	PNX	2	0
6	A	5304	PNX	2	0
3	B	5301	ATP	1	0
3	A	5301	ATP	1	0
6	C	5304	PNX	1	0
3	D	5301	ATP	1	0

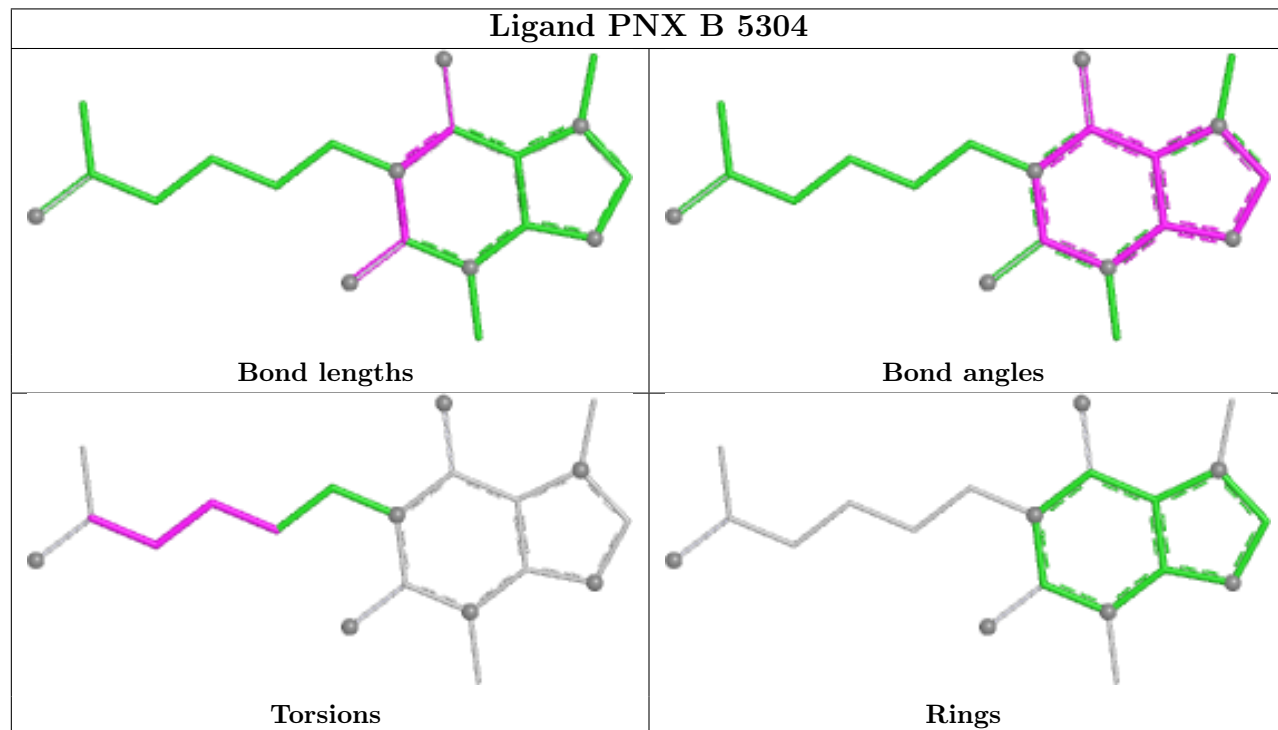
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



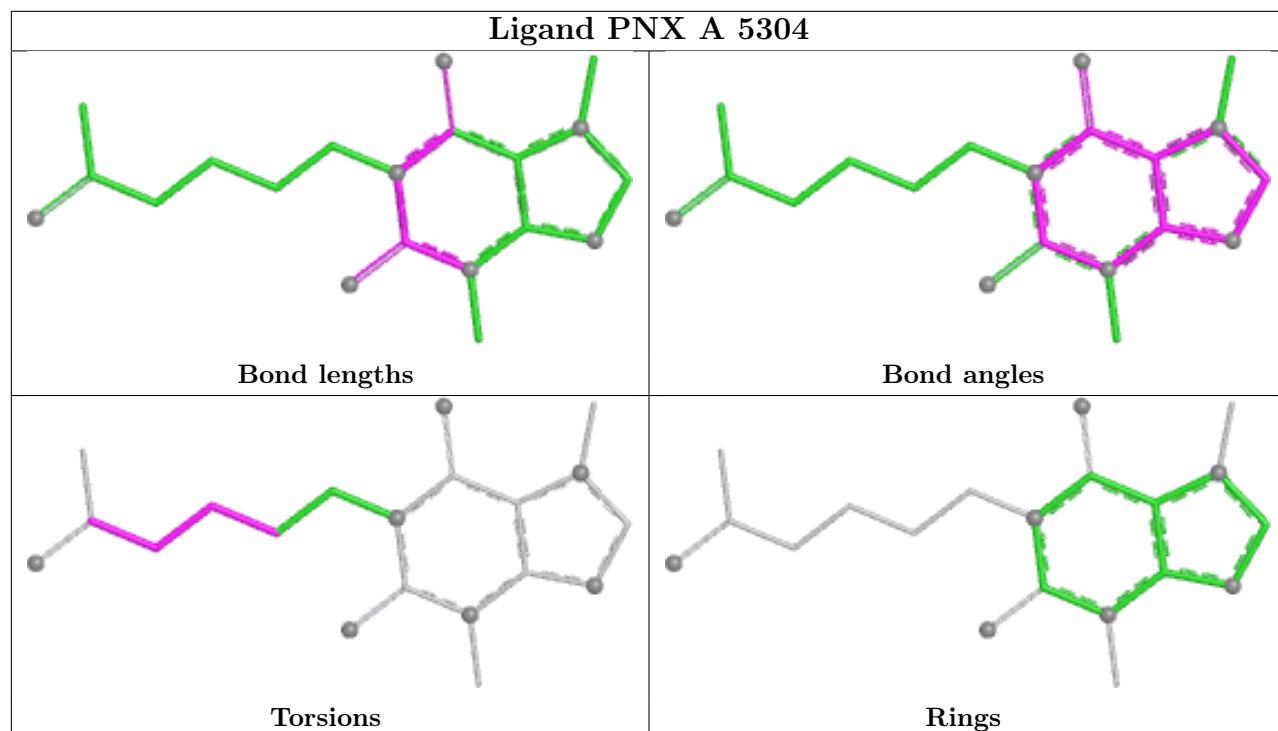
Ligand PNX D 5304



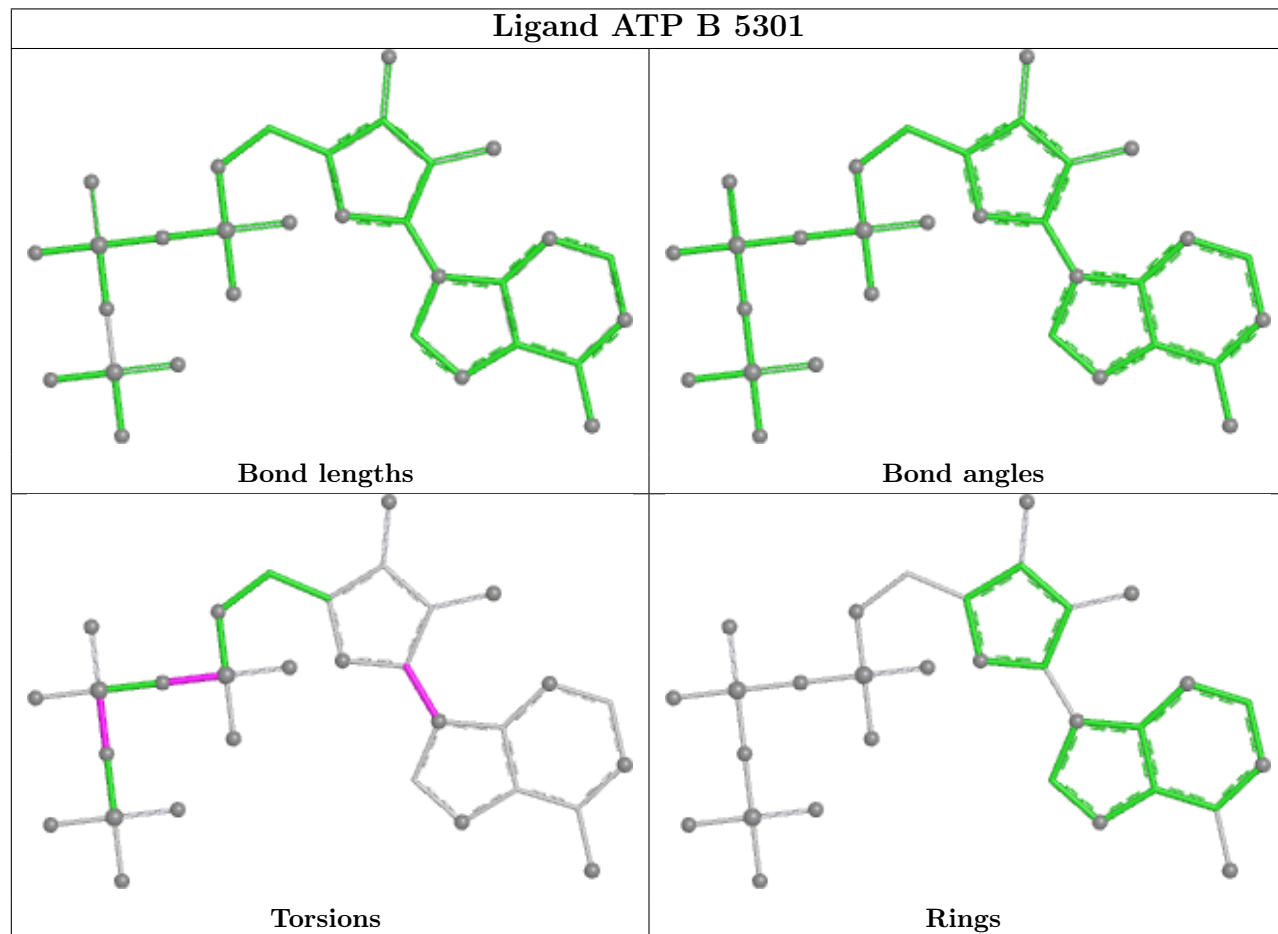
Ligand PNX B 5304

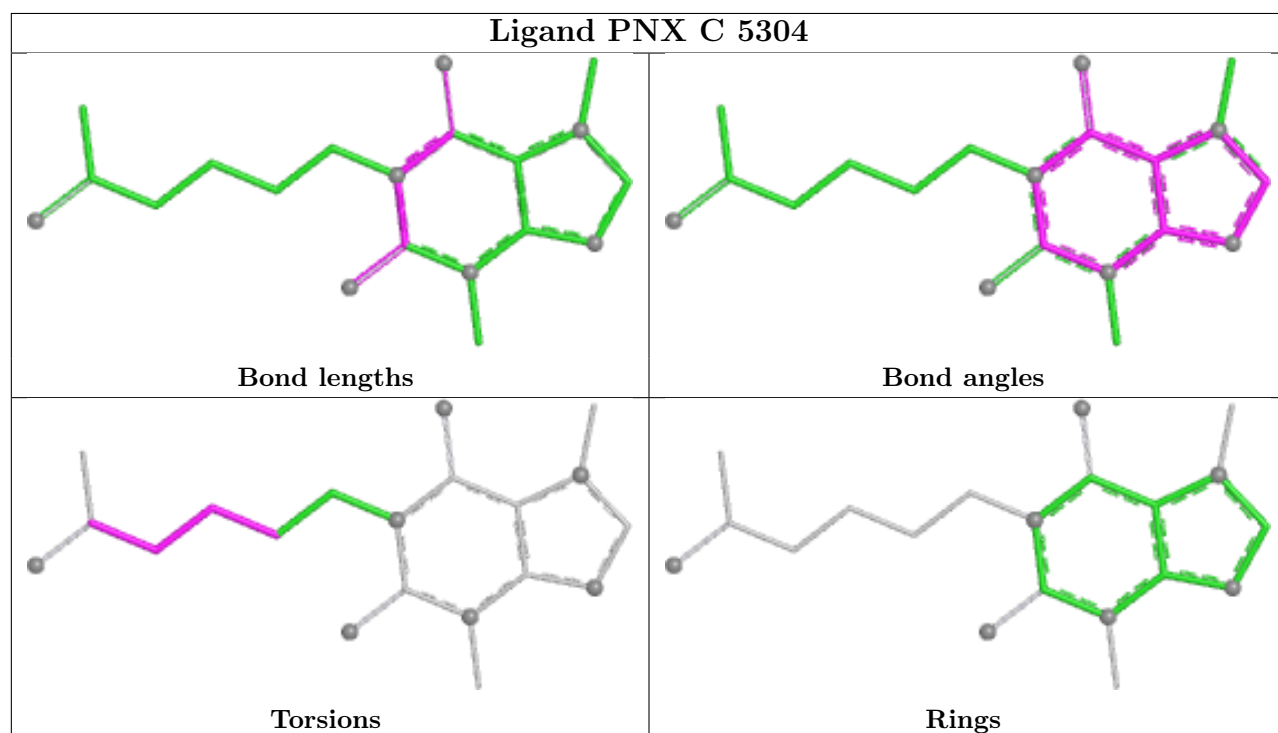
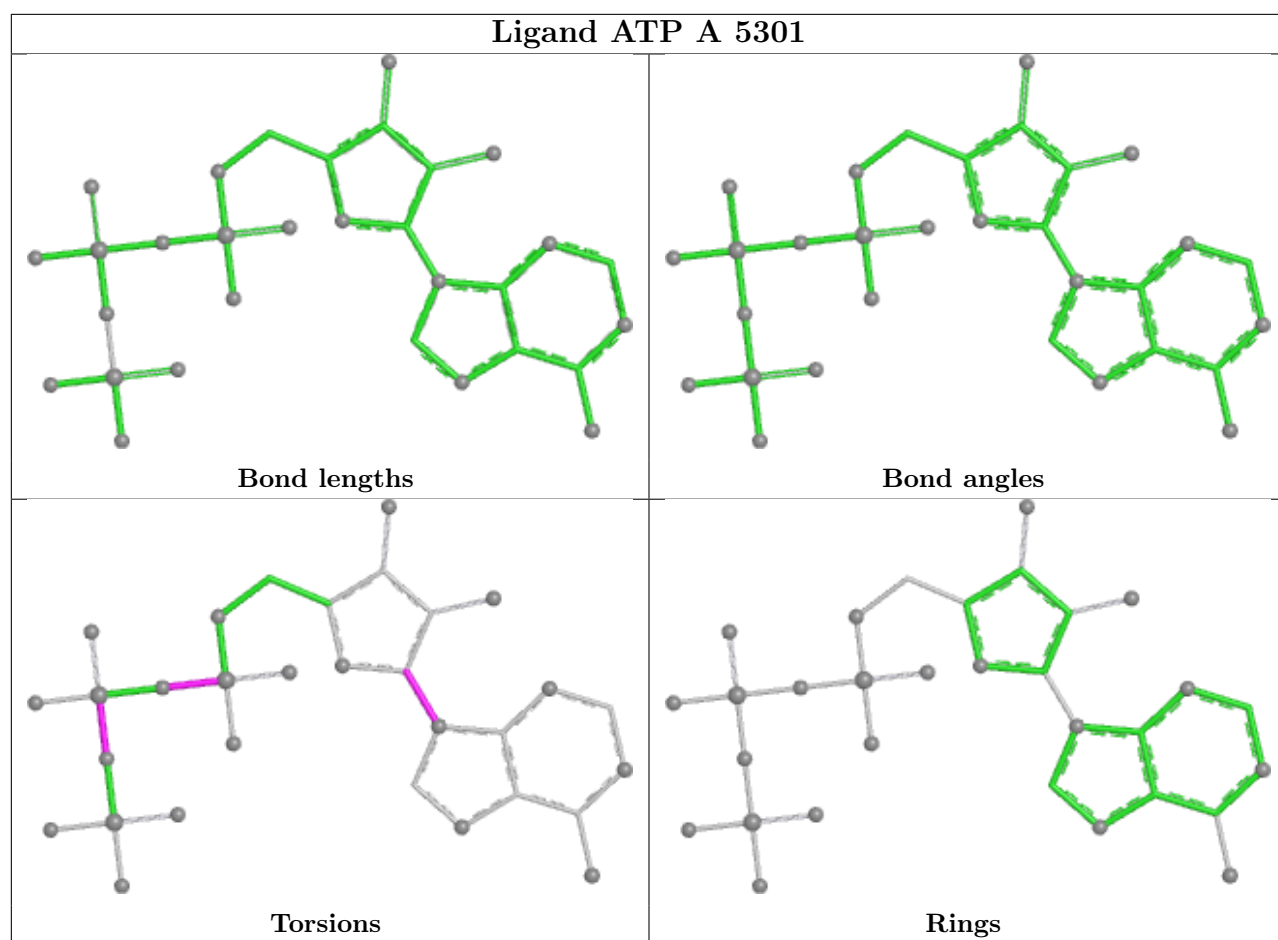


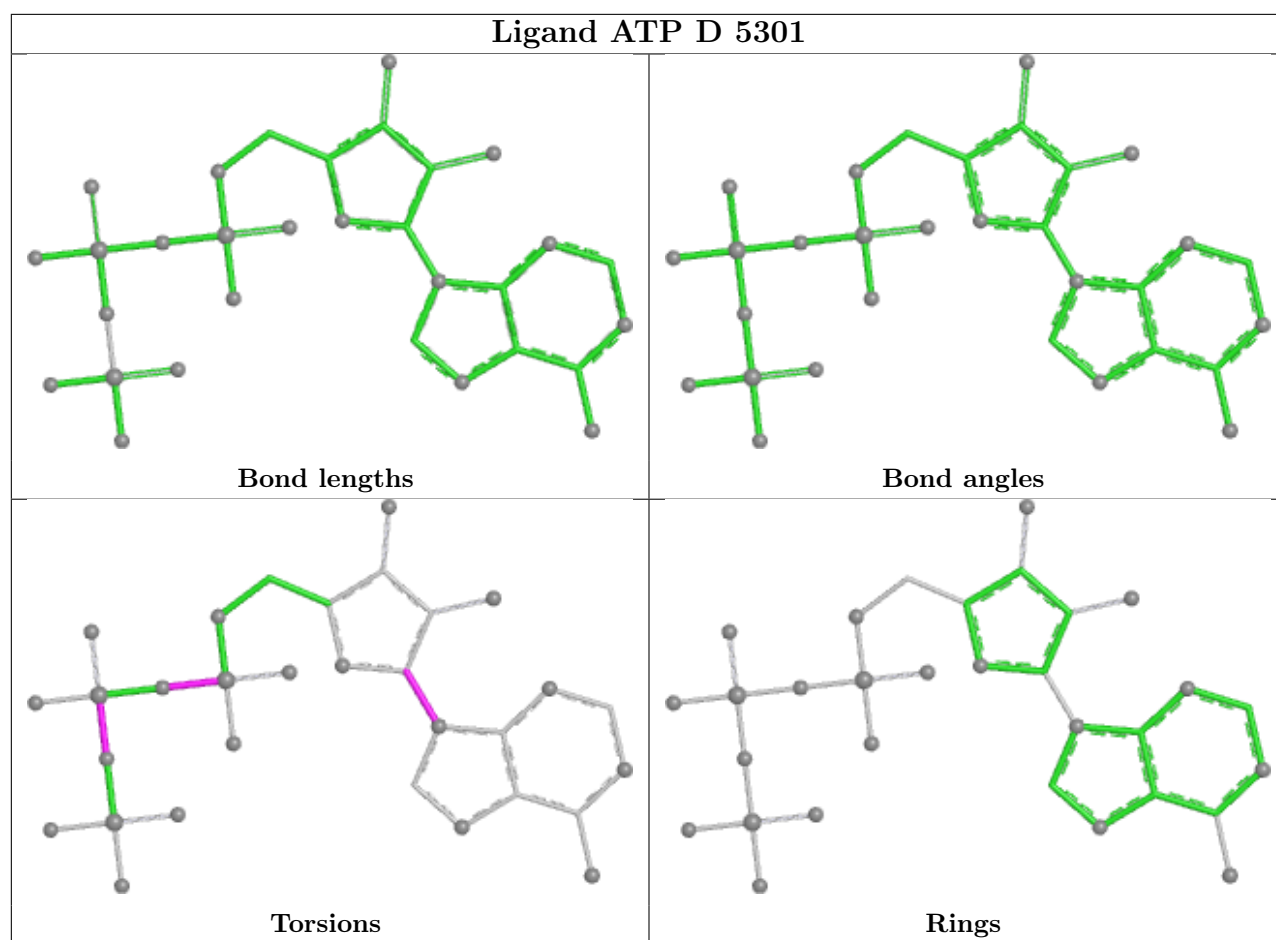
Ligand PNX A 5304



Ligand ATP B 5301







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.

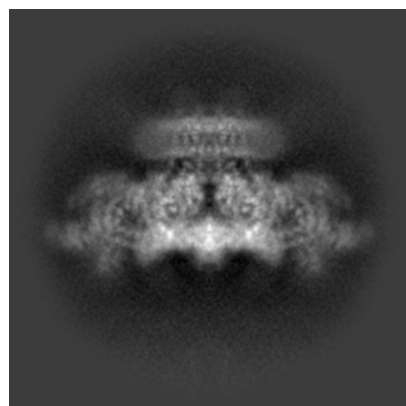
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47386. These allow visual inspection of the internal detail of the map and identification of artifacts.

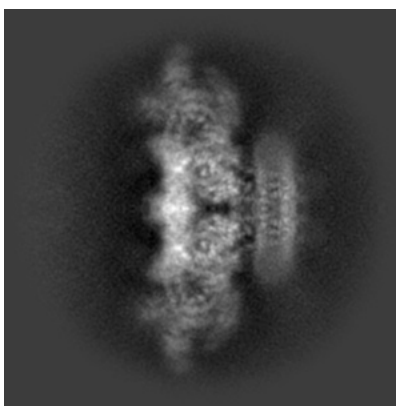
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

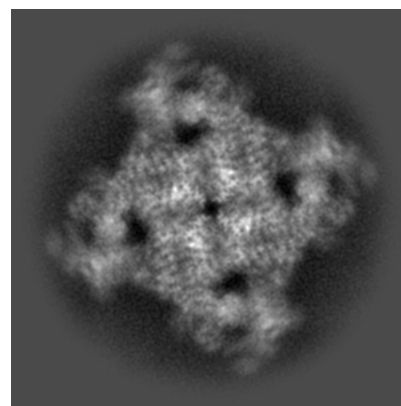
6.1.1 Primary map



X

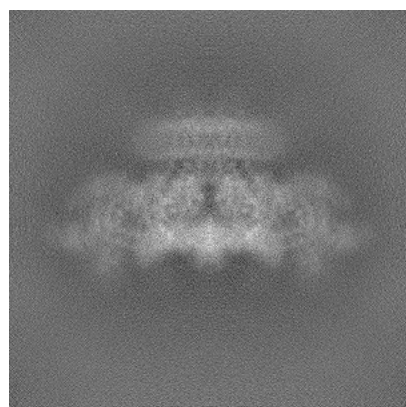


Y

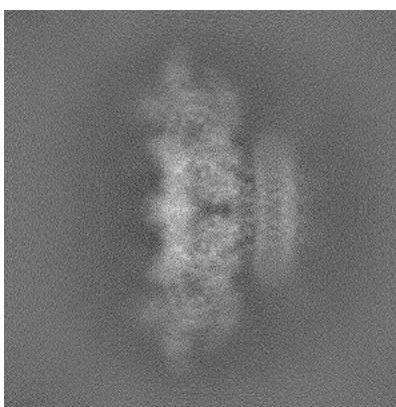


Z

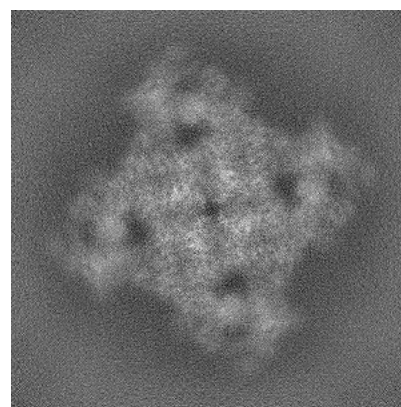
6.1.2 Raw map



X



Y

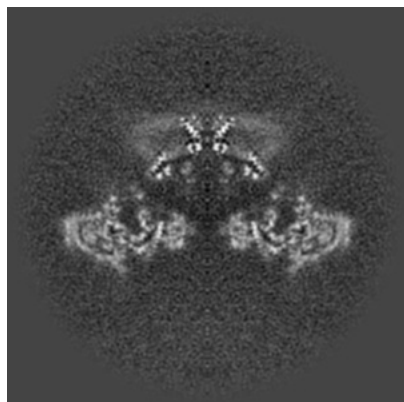


Z

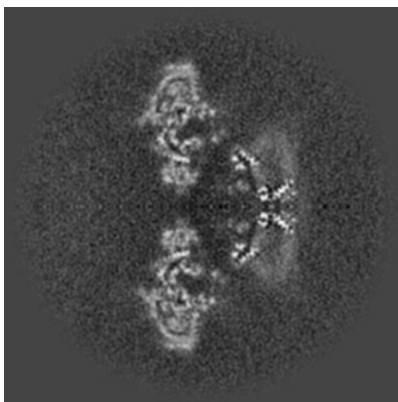
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

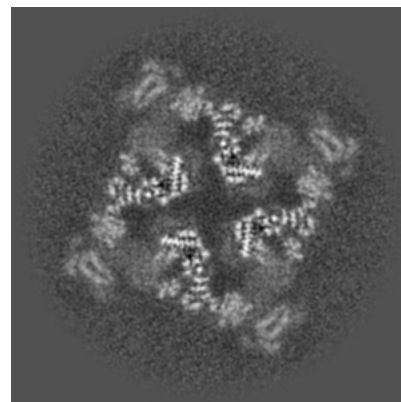
6.2.1 Primary map



X Index: 256

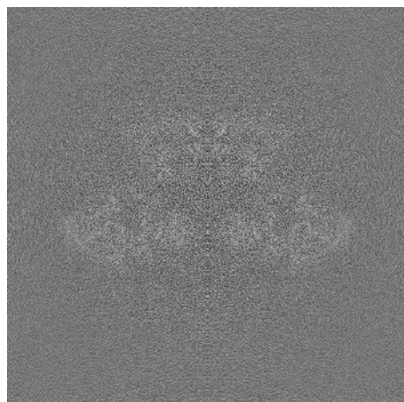


Y Index: 256

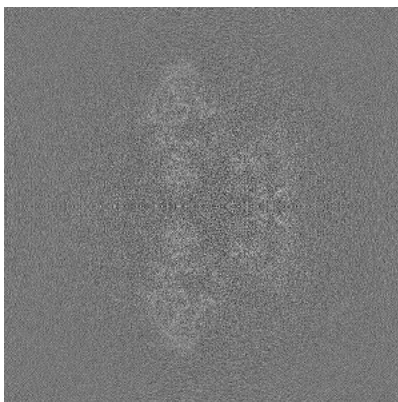


Z Index: 256

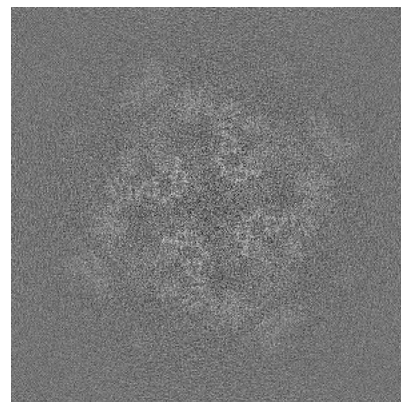
6.2.2 Raw map



X Index: 256



Y Index: 256

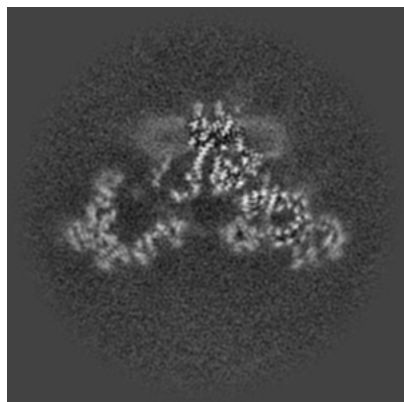


Z Index: 256

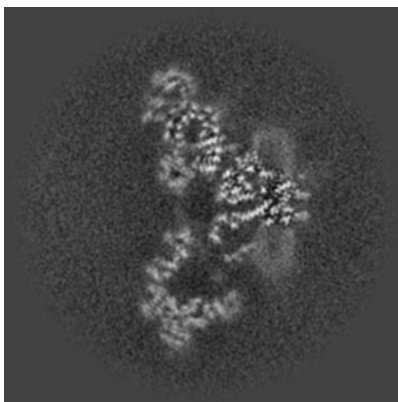
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

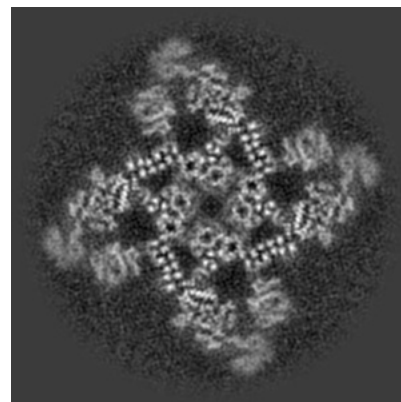
6.3.1 Primary map



X Index: 269

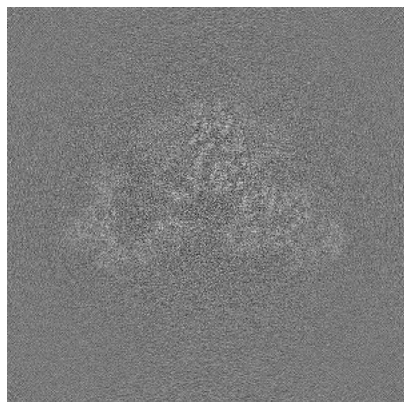


Y Index: 243

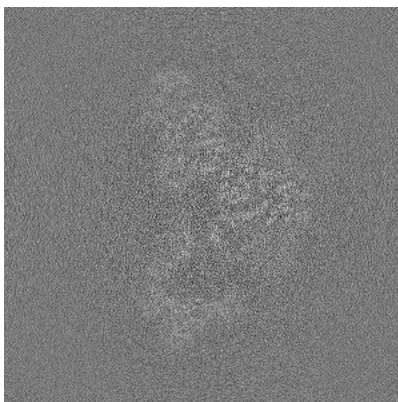


Z Index: 229

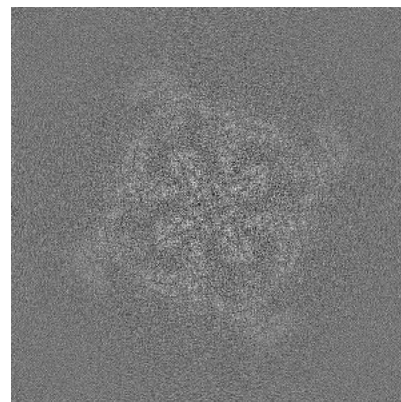
6.3.2 Raw map



X Index: 270



Y Index: 242

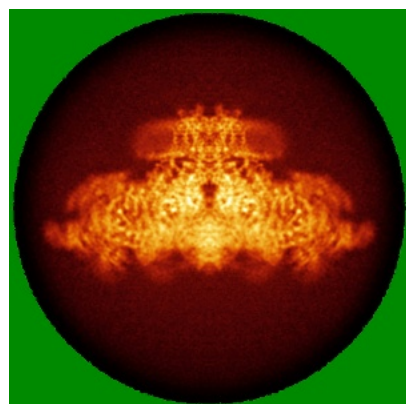


Z Index: 275

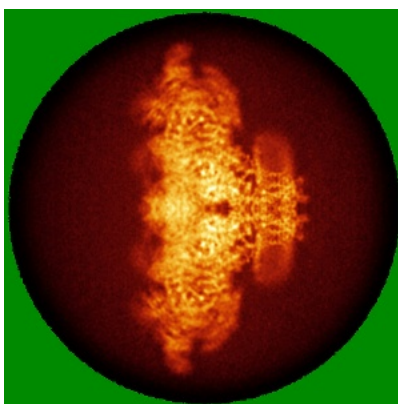
The images above show the largest variance slices of the map in three orthogonal directions.

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

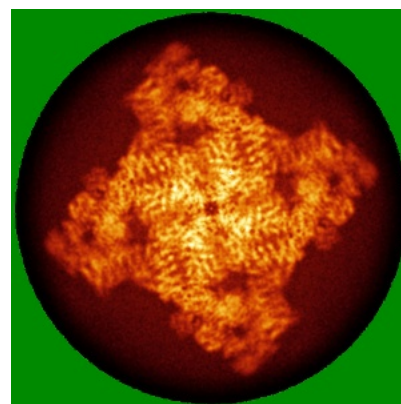
6.4.1 Primary map



X

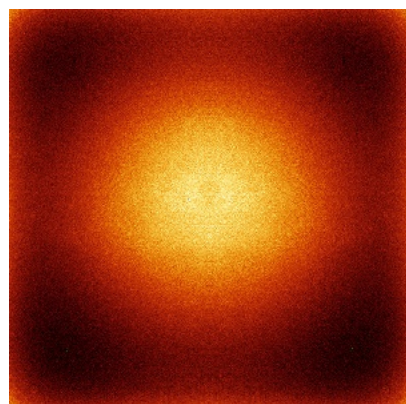


Y

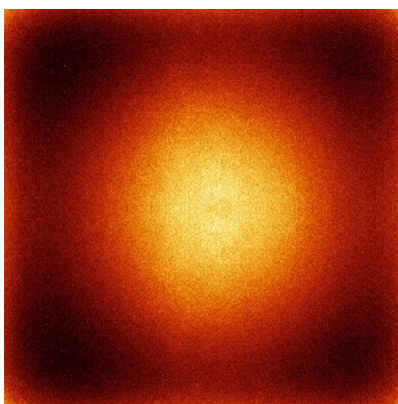


Z

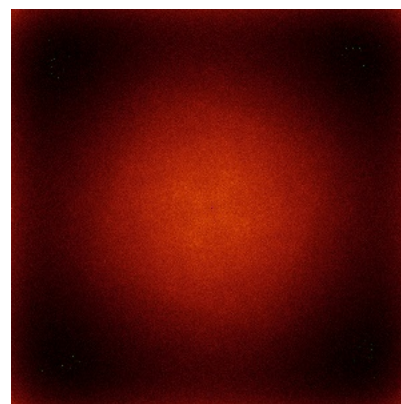
6.4.2 Raw map



X



Y

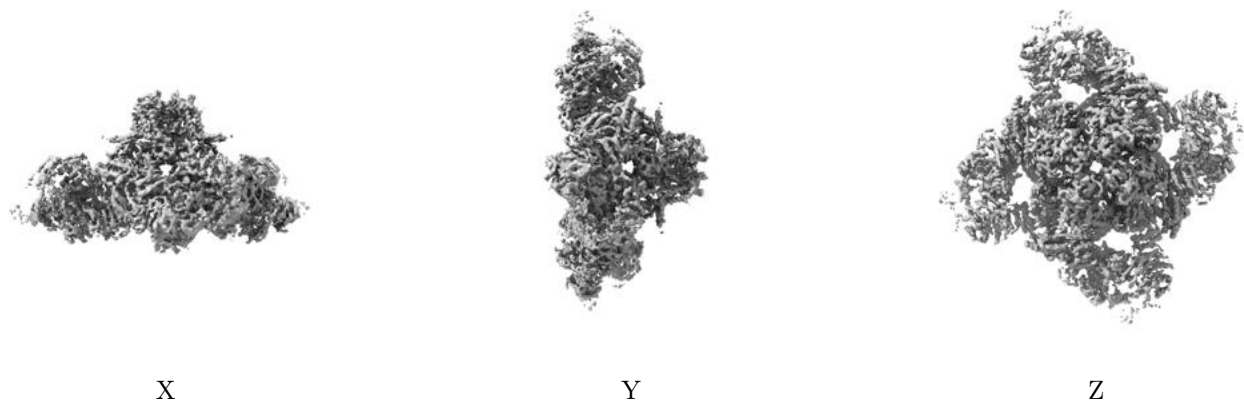


Z

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.

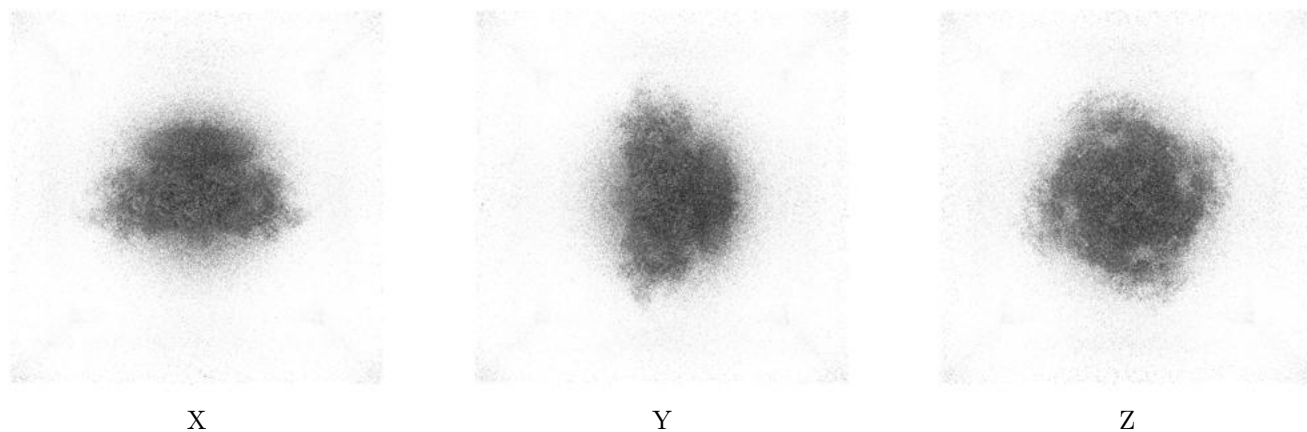
6.5 Orthogonal surface views [i](#)

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.

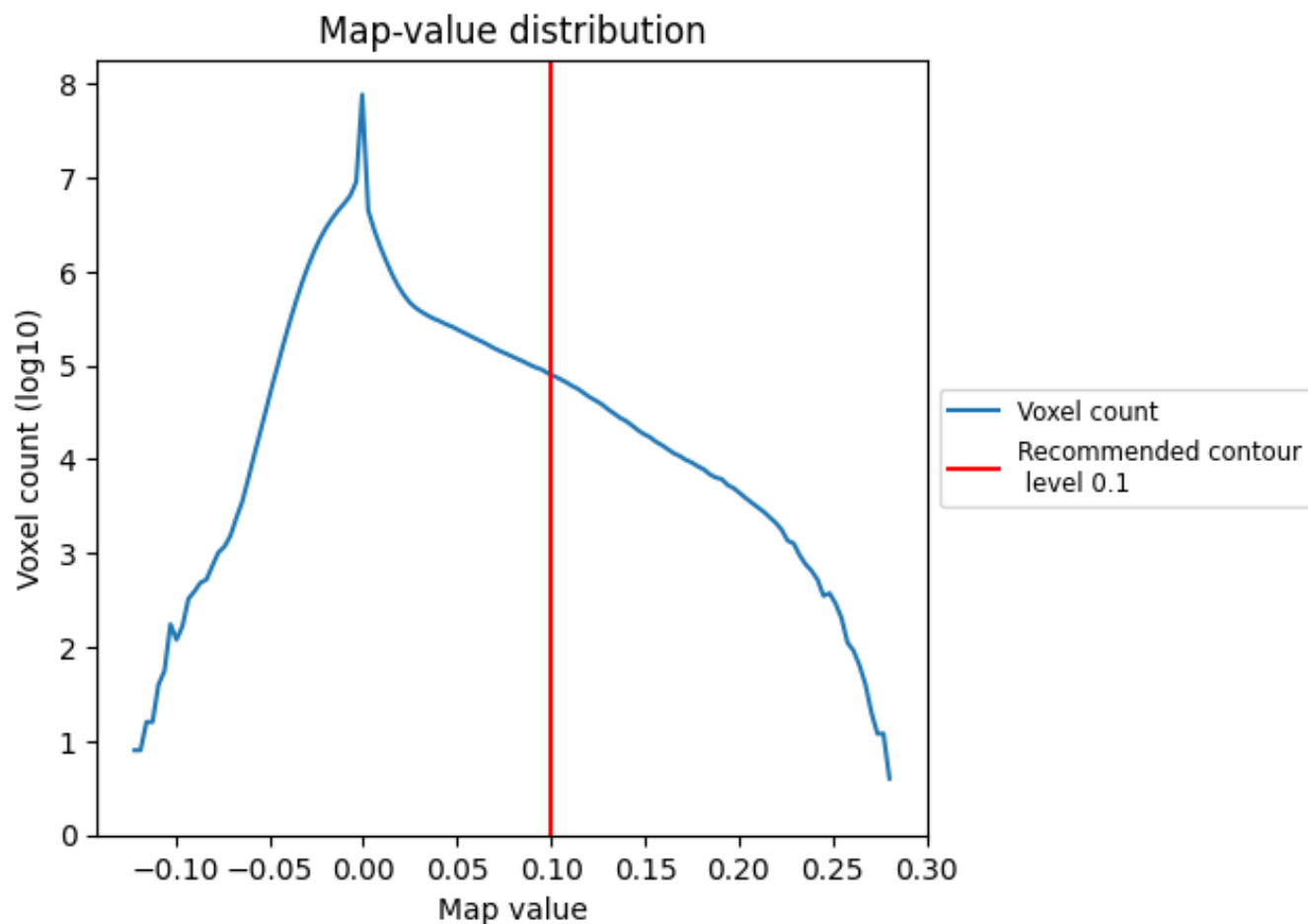
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

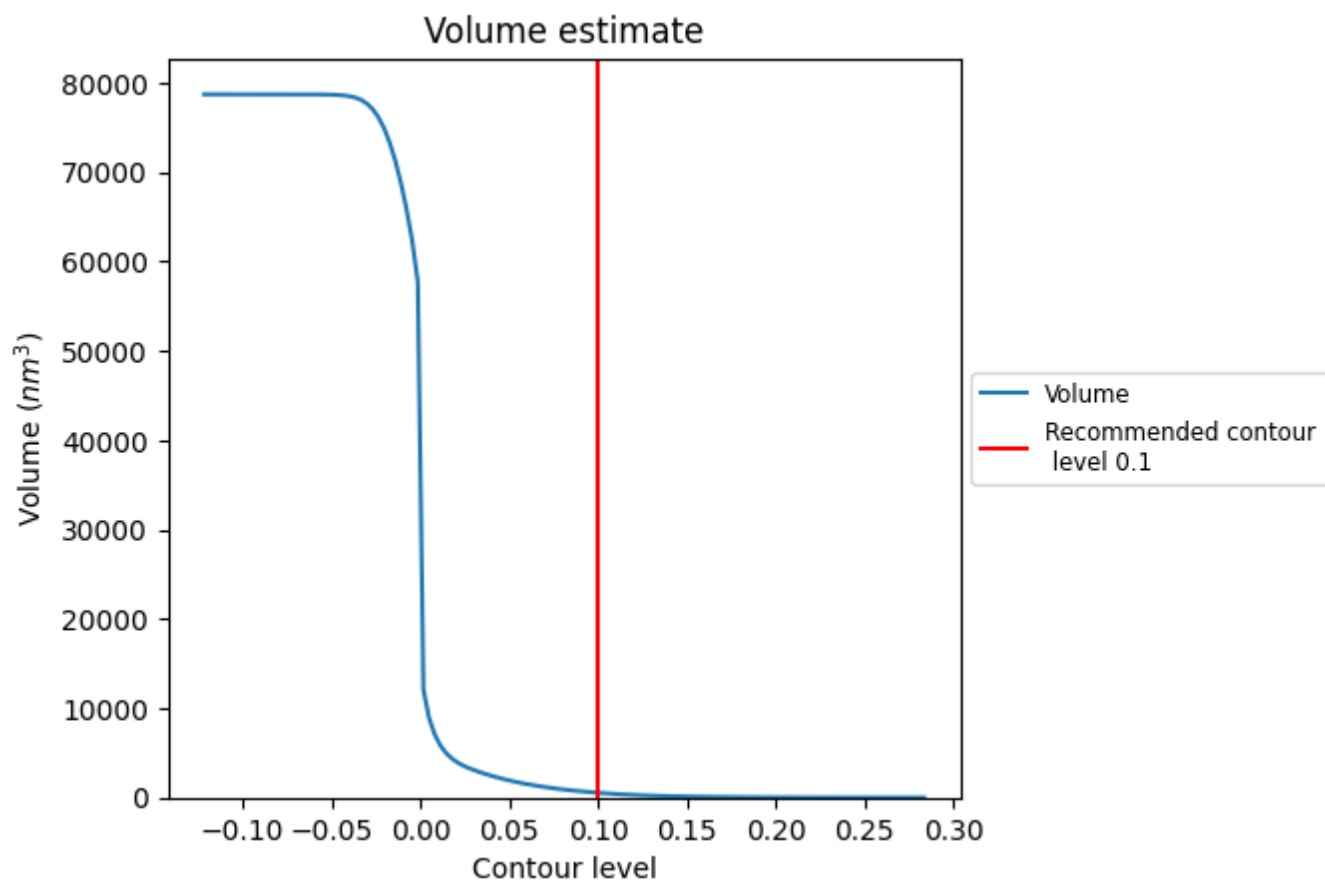
This section contains the results of statistical analysis of the map.

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.

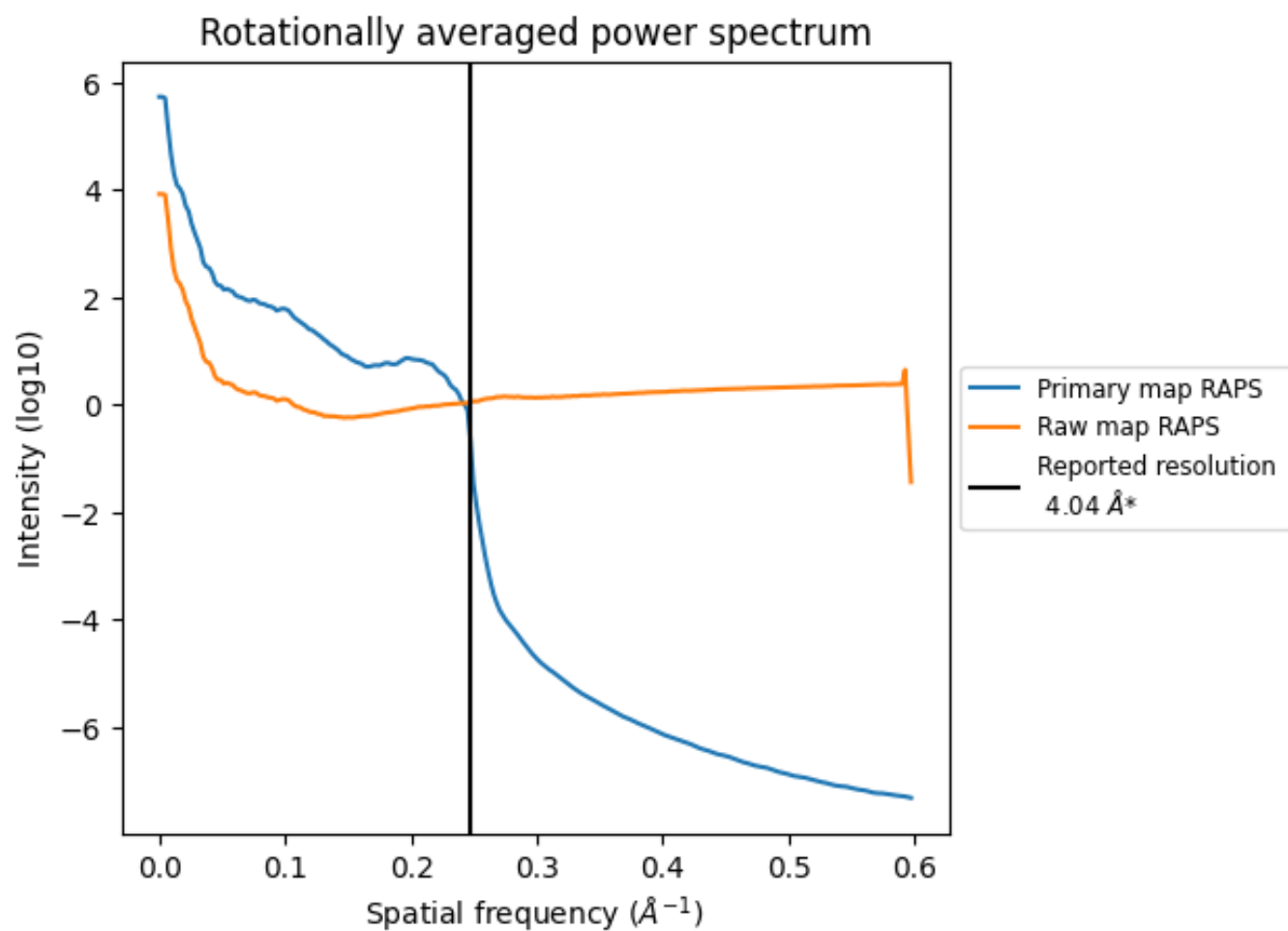
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 534 nm^3 ; this corresponds to an approximate mass of 482 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 ⓘ

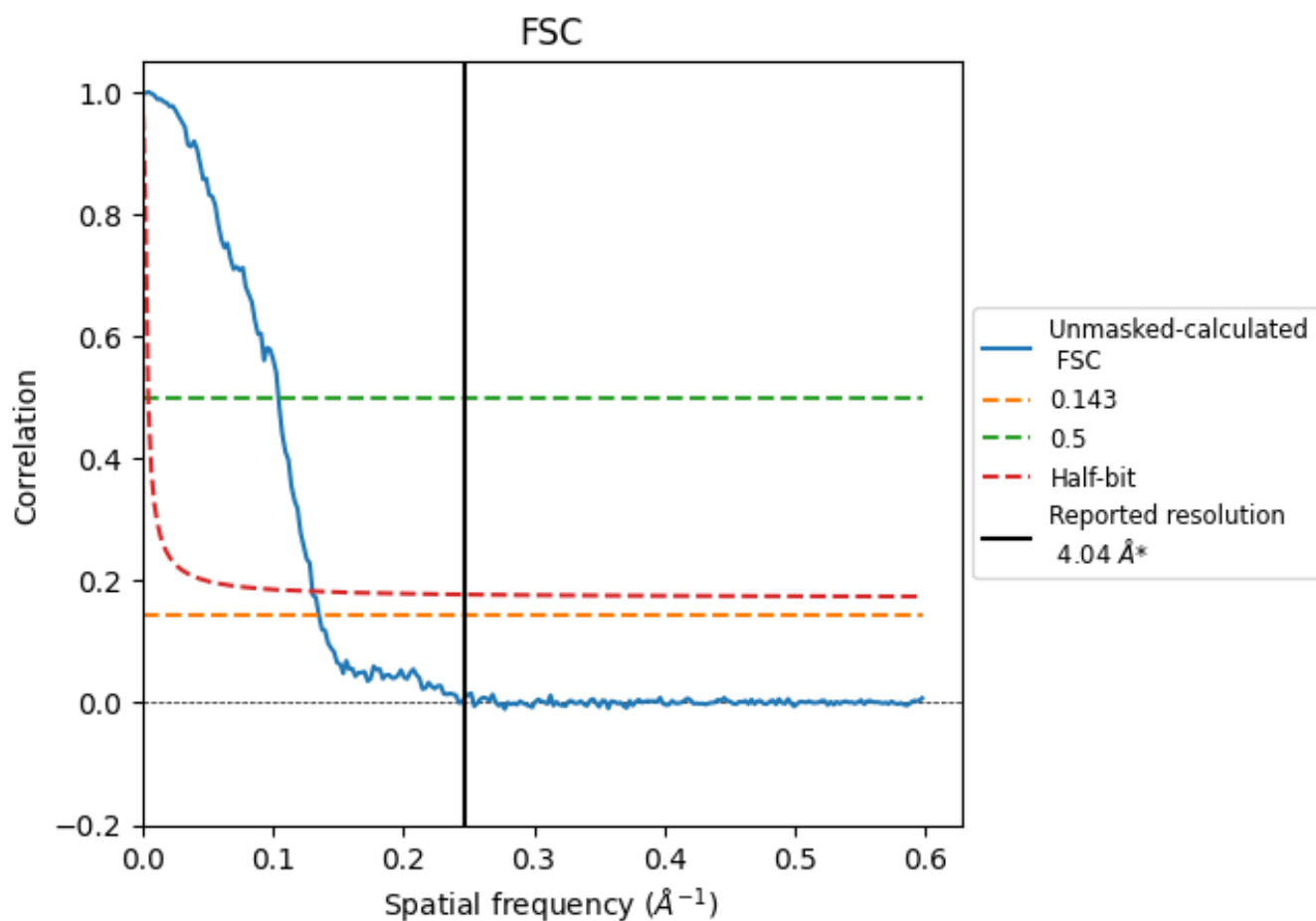


*Reported resolution corresponds to spatial frequency of 0.248 $\text{\AA}^{-1}$

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 0.248 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

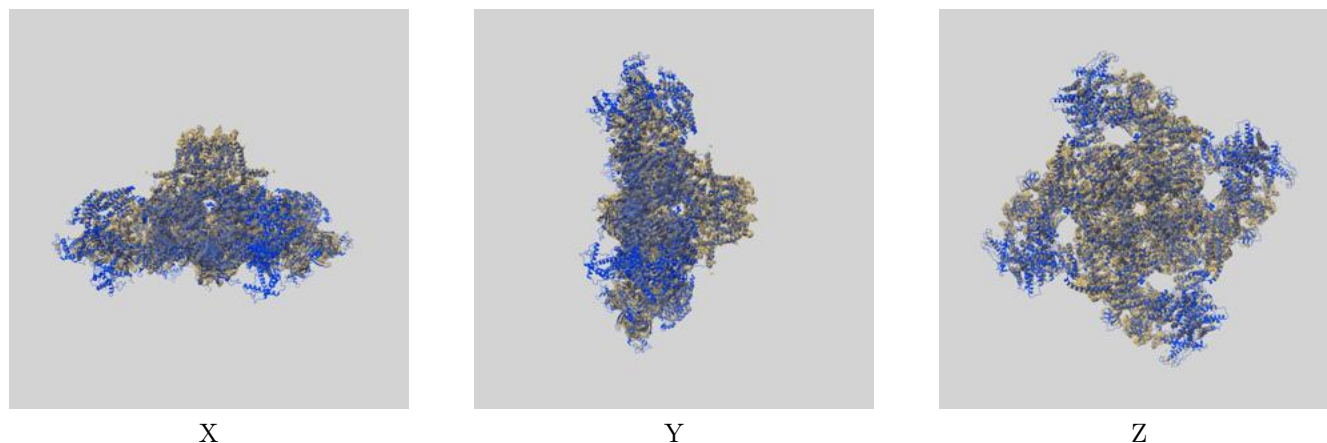
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.04	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	7.39	9.58	7.67

*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 7.39 differs from the reported value 4.04 by more than 10 %

9 Map-model fit [i](#)

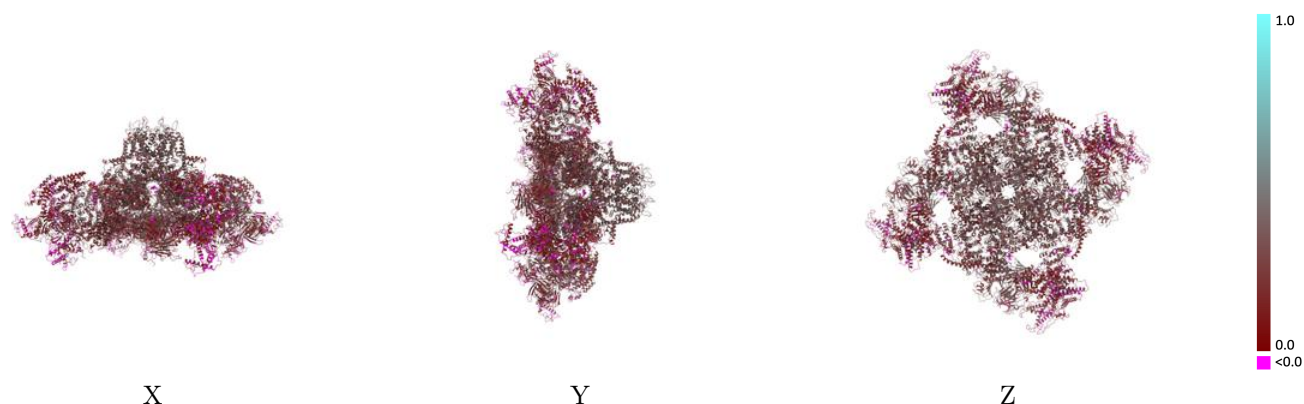
This section contains information regarding the fit between EMDB map EMD-47386 and PDB model 9E19. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



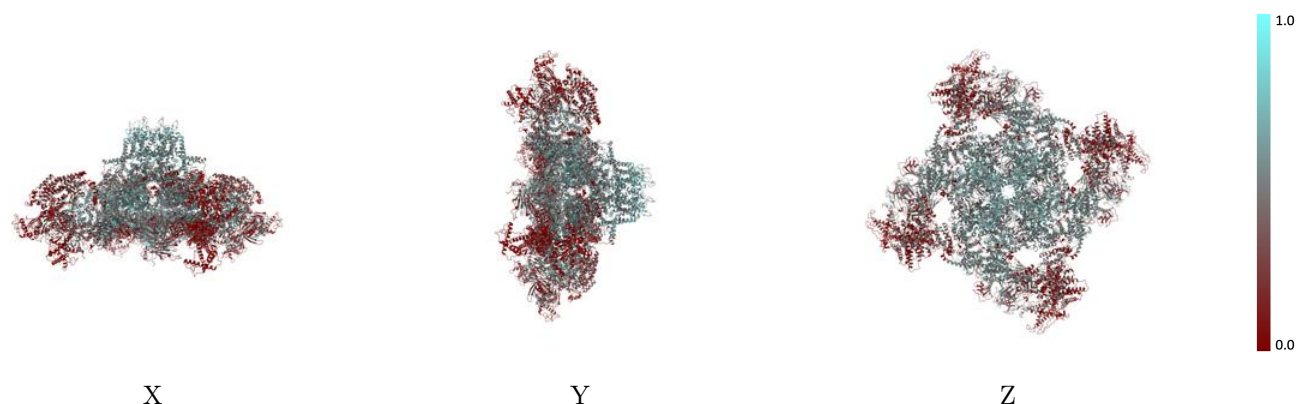
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



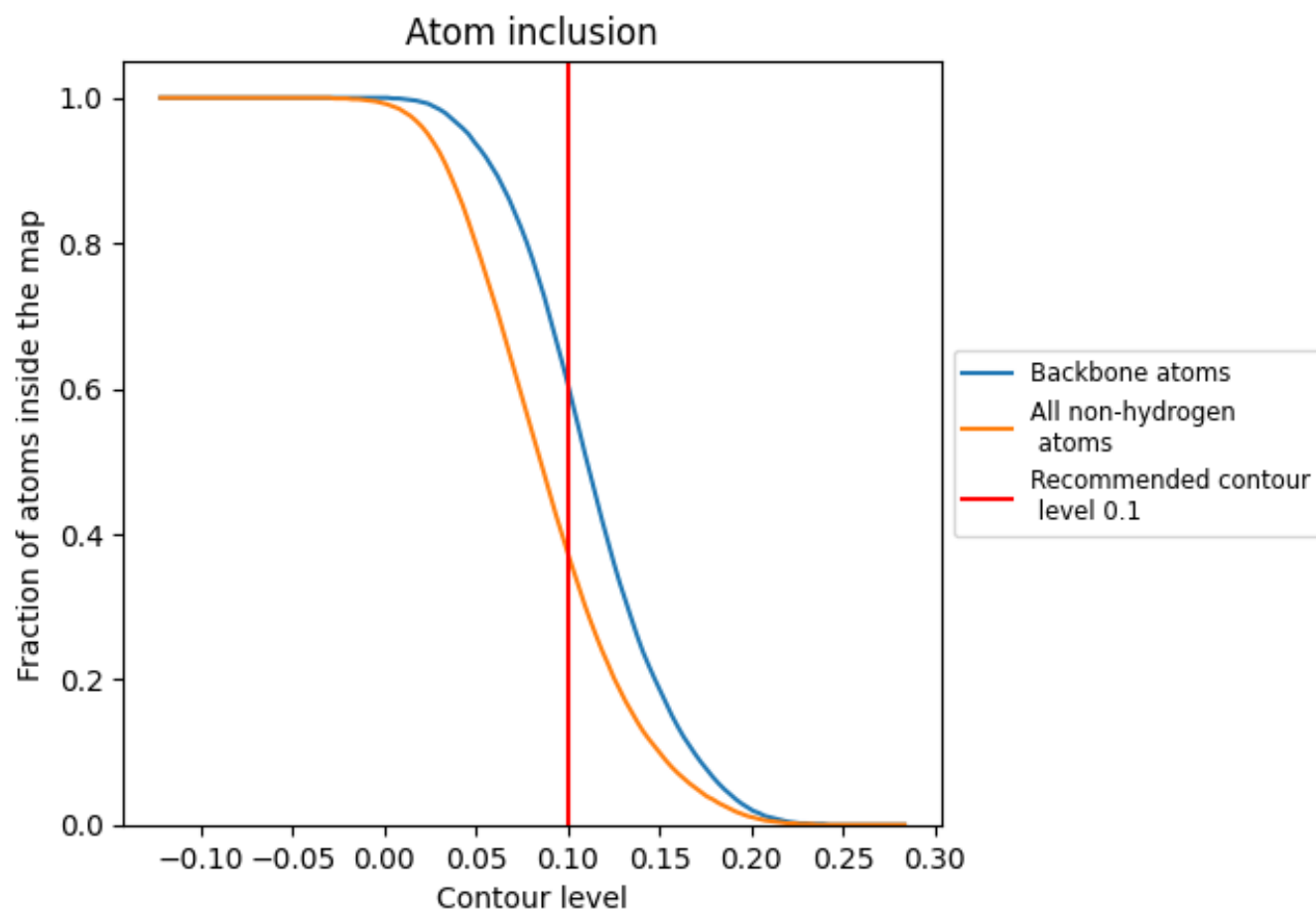
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 61% of all backbone atoms, 37% 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	0.3740	0.2250
A	0.3800	0.2270
B	0.3770	0.2240
C	0.3780	0.2240
D	0.3790	0.2250
E	0.1930	0.2270
F	0.1950	0.2210
G	0.1980	0.2260
H	0.1910	0.2270

1.0

0.0

<0.0