



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:55 AM UTC

PDB ID : 5GKY / pdb_00005gky
EMDB ID : EMD-9518
Title : Structure of RyR1 in a closed state (C1 conformer)
Authors : Bai, X.C.; Yan, Z.; Wu, J.P.; Yan, N.
Deposited on : 2016-07-07
Resolution : 3.80 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
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

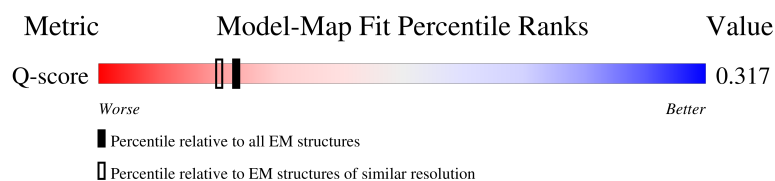
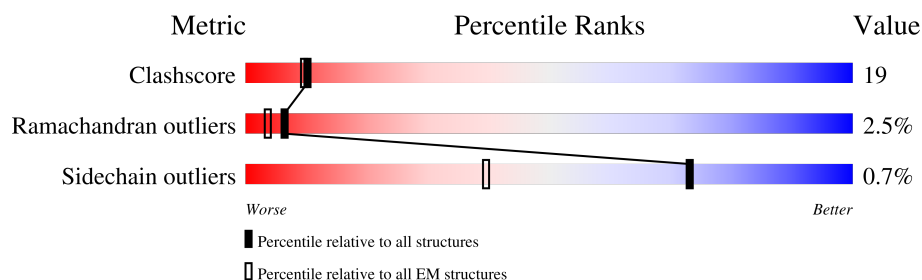
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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	10198 (3.30 - 4.30)

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	C	5037	
1	E	5037	
1	G	5037	

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Mol	Chain	Length	Quality of chain
2	B	108	16% 56% 43%
2	D	108	17% 56% 43%
2	F	108	17% 56% 43%
2	H	108	16% 57% 42%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 111036 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	3660	Total	C	N	O	S	1	0
			26926	17112	4683	4974	157		
1	C	3660	Total	C	N	O	S	1	0
			26926	17112	4683	4974	157		
1	E	3660	Total	C	N	O	S	1	0
			26926	17112	4683	4974	157		
1	G	3660	Total	C	N	O	S	1	0
			26926	17112	4683	4974	157		

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

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

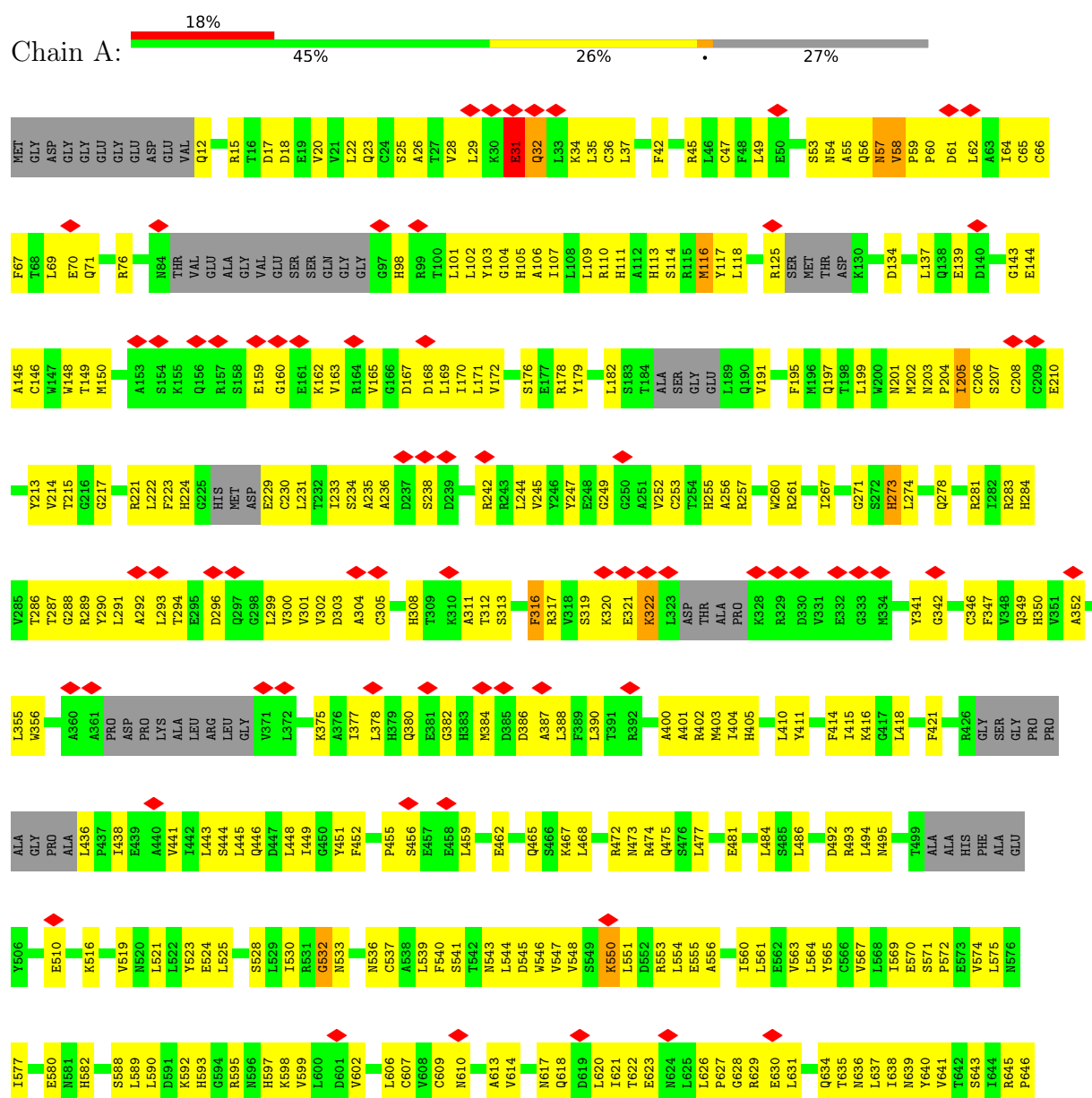
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

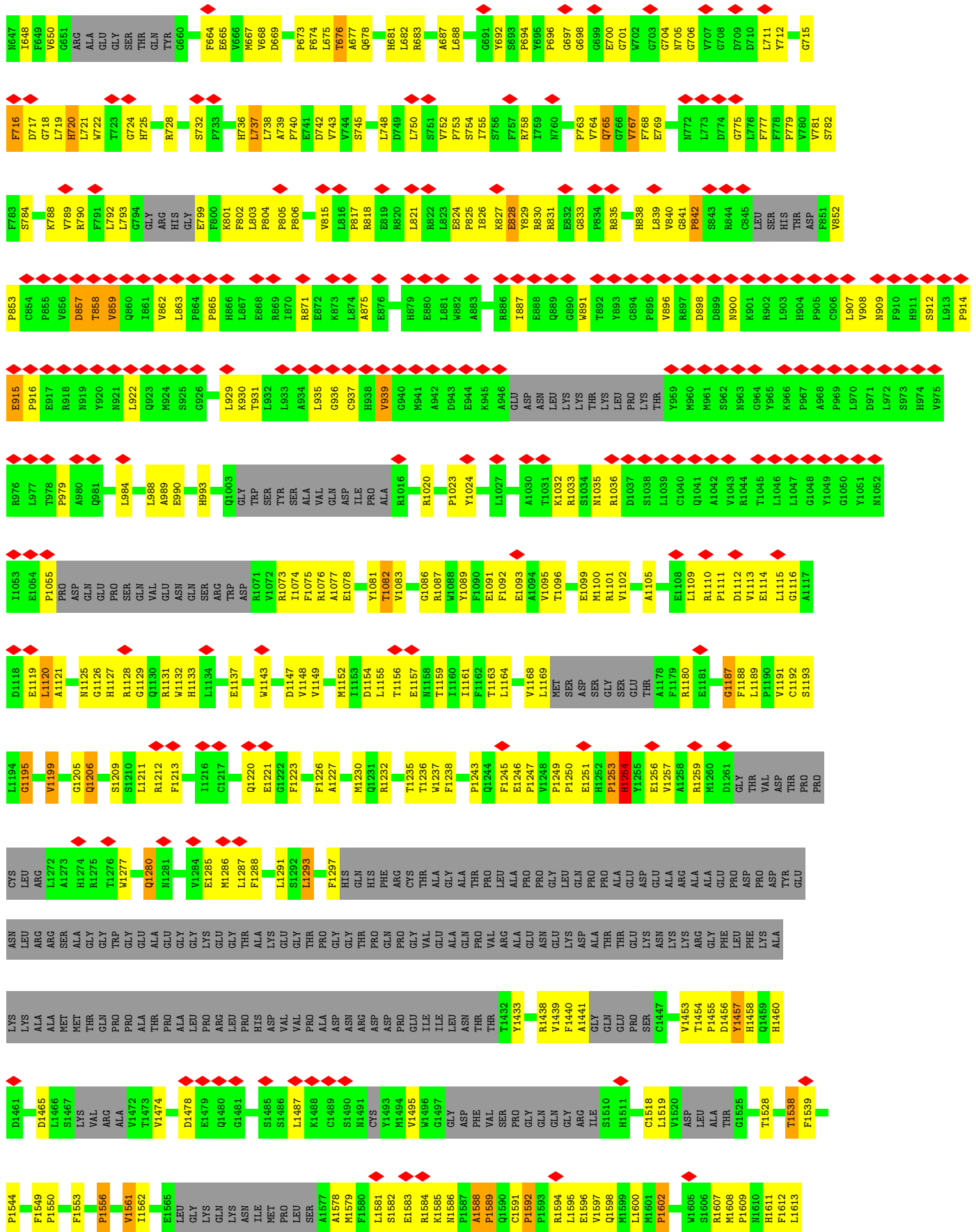
Mol	Chain	Residues	Atoms		AltConf
3	A	1	Total	Zn	0
			1	1	
3	C	1	Total	Zn	0
			1	1	
3	E	1	Total	Zn	0
			1	1	
3	G	1	Total	Zn	0
			1	1	

3 Residue-property plots

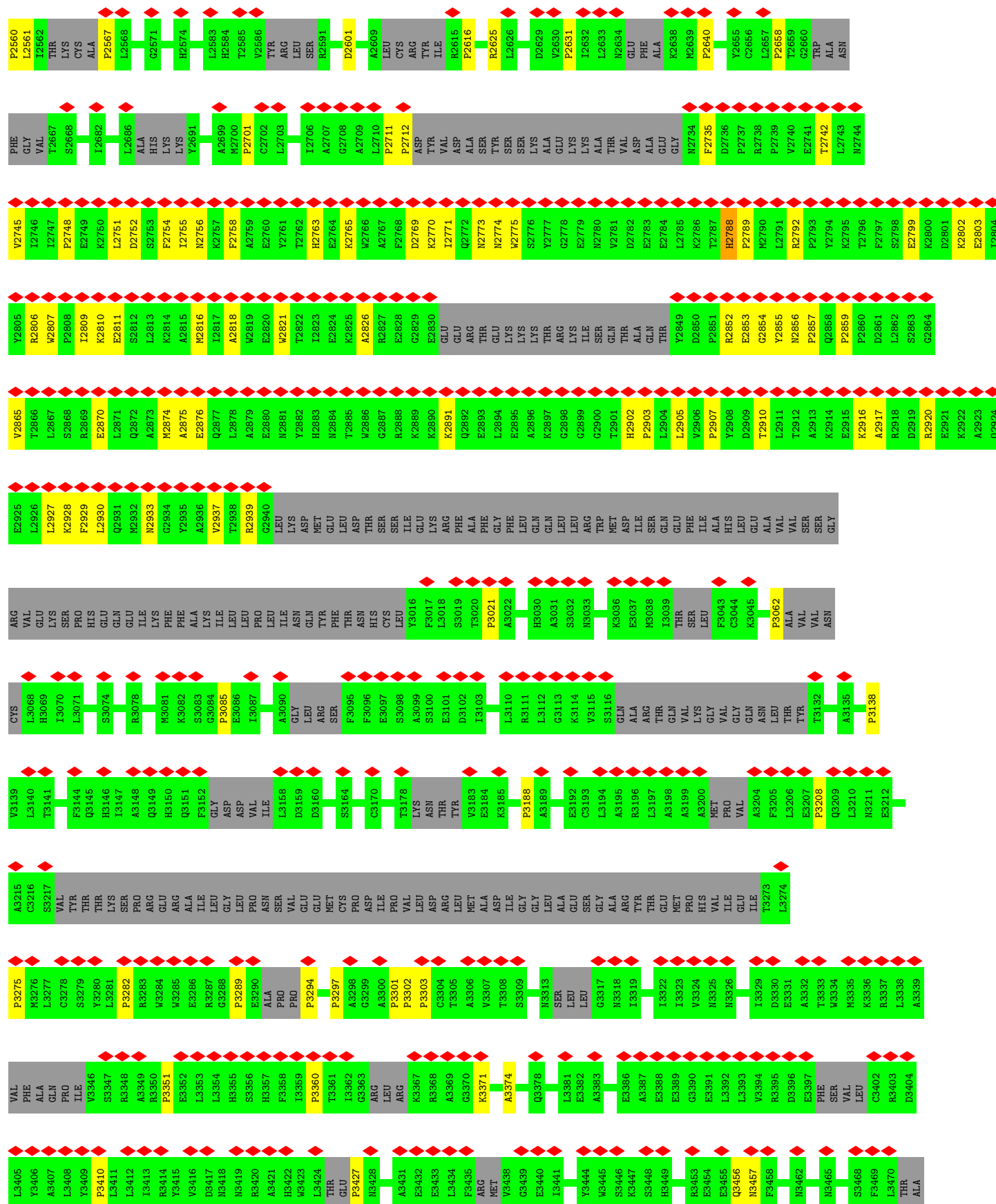
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Ryanodine receptor 1









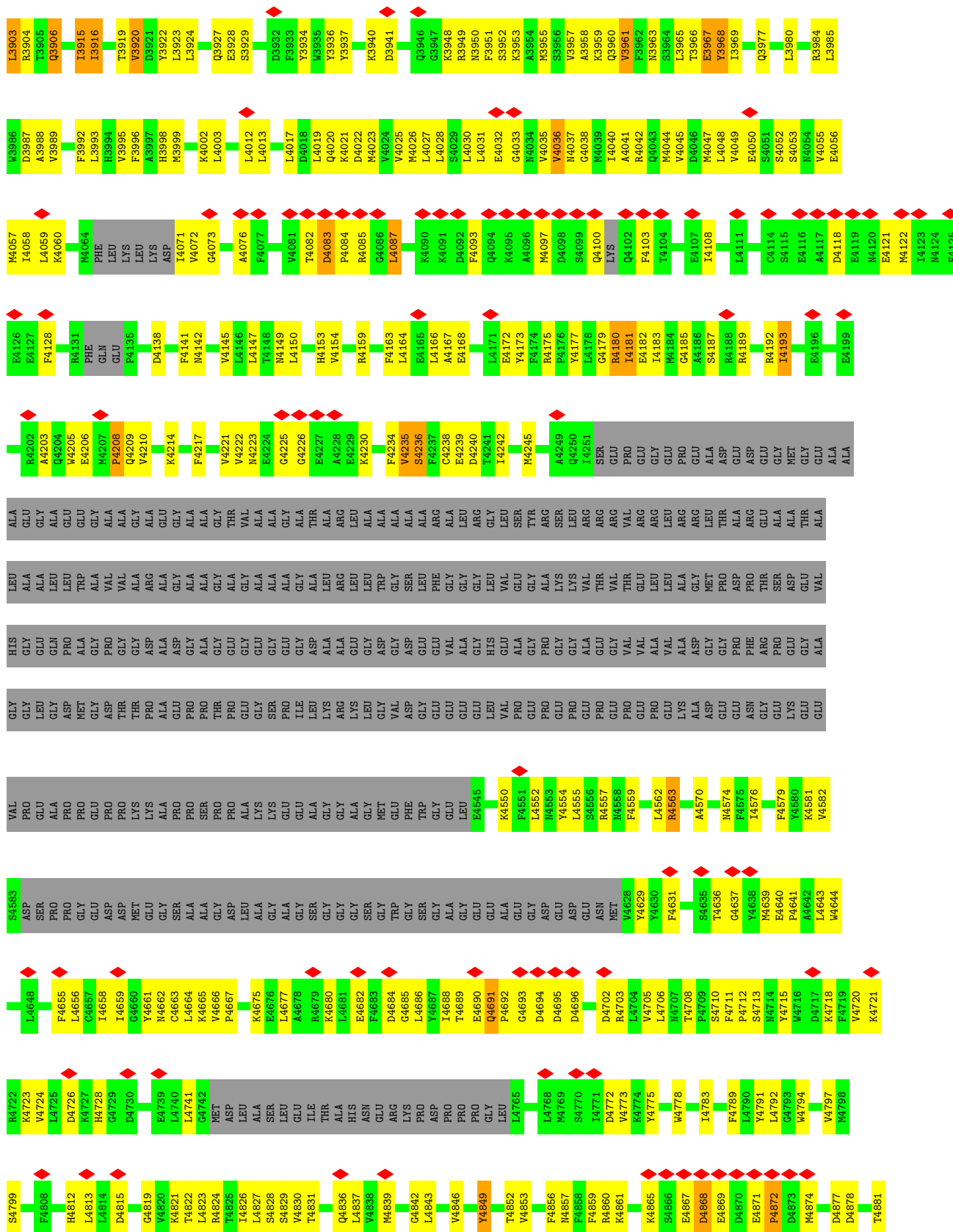






L2063	R2064	S2065	L2066	L2067	E2068	T2069	R2070	R2071	VAL	LYS	LYS	GLU	GLU	LYS	PRO	GLU	GLU	LEU	PRO	ALA	GLU	LYS	LYS	GLN	S2093	L2094	L2097	V2098	S2099	R2100	R2101	V2102	V2103	R2104	Q2107	S2113	L2116	R2120	F2121	S2122	L2123	L2124	R2125	R2126	Q2127	V2128	E2133	L2134										
L2135	R2136	S2065	L2138	P2139	R2140	A2141	Y2142	T2070	T2143	L2144	S2145	P2146	V2149	E2150	D2151	T2152	M2153	S2154	L2155	L2156	E2157	C2158	L2159	Q2160	L2162	R2163	S2164	L2165	L2166	R2167	V2168	GLN	GLY	Q2173	E2174	M2178	G2183	N2184	N2187	N2188	K2189	V2190	F2191	Y2192	L2197	M2198	H2203	H2204	R2205	T2206	V2207							
M2208	E2209	V2210	M2211	V2212	R2213	V2214	L2215	GLY	GLY	GLU	THR	LYS	GLU	ILE	ARG	PHE	V2226	C2233	R2234	F2235	Y2238	I2242	S2243	R2244	Q2245	R2246	R2247	R2248	F2251	D2252	R2253	L2254	S2255	Y2256	E2259	M2260	I2263	GLY	LEU	GLY	PRO	GLN	GLY	SER	T2271	P2272	V2275	D2282										
N2283	L2286	L2290	E2296	V2299	S2300	L2302	A2303	L2307	GLN	SER	CYS	PRO	MET	LEU	LEU	ALA	LYS	GLY	TYR	PRO	ASP	ILE	GLY	TRP	P2325	C2326	G2327	G2328	E2329	R2330	Y2331	L2332	D2333	F2334	L2335	R2336	V2339	F2340	V2341	N2342	V2346	E2347	N2351	V2354	R2355	L2356	L2357											
I2358	R2359	K2360	P2361	E2362	CYS	PHE	GLY	PRO	ALA	ARG	GLY	GLY	GLY	SER	G2375	A2379	I2380	E2381	E2382	A2383	I2384	R2385	L2386	SER	GLY	ASP	PRO	GLY	VAL	ARG	ARG	ARG	ARG	ARG	GLU	HIS	PHE	GLY	GLU	PRO	GLU	PRO	GLU	GLY	ASN	ARG	VAL	HIS	LEU	G2419								
N2423	L2430	G2434	R2435	C2436	A2437	PRO	GLU	MET	HIS	LEU	ILE	GLN	ALA	LYS	GLY	E2449	L2450	I2453	I2456	L2460	L2463	D2464	D2465	L2466	V2467	S2471	L2472	P2473	L2474	Q2475	I2476	PRO	THR	LEU	GLY	LYS	ASP	GLY	GLY	GLY	PRO	VAL	GLN	PRO	LYS	MET	SER	ALA	SER	F2494								
V2495	H2498	K2499	A2500	S2501	M2502	L2503	L2504	L2505	L2506	D2507	R2508	V2509	Y2510	ILE	GLY	ILE	GLU	Q2514	D2516	F2517	L2518	L2522	ASP	V2524	R2531	A2532	A2533	A2534	S2535	L2536	ASP	THR	ALA	L2550	M2551	R2552	Y2553	L2554	A2557	V2558	L2559	P2560	L2561	I2562	THR	LYS	CYS											
ALA	P2567	L2568	G2571	H2574	L2583	H2584	T2585	V2586	TYR	ARG	GLY	LEU	SER	R2591	D2601	A2609	L2611	CYS	ARG	TYR	ILE	R2615	P2616	R2625	L2626	D2629	V2630	P2631	L2632	L2633	N2634	GLY	PHE	ALA	K2638	M2639	P2640	Y2655	C2656	L2657	T2658	G2660	ALA	ASN	PHE	GLY	VAL	S2668										
I2682	L2686	ALA	HIS	LYS	Y2691	A2699	M2700	P2701	C2702	L2703	I2706	A2707	G2708	A2709	L2710	P2711	ASP	TYR	VAL	ASP	ALA	LYS	THR	SER	SER	ALA	GLU	LYS	LYS	ALA	VAL	ASP	ALA	GLU	GLY	N2734	F2735	D2736	P2737	R2738	P2739	E2741	T2742	L2743	N2744	V2745	I2746	I2747	P2748	E2749	K2750							
L2751	D2752	S2753	F2754	L2755	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	D2769	K2770	I2771	Q2772	N2773	N2774	W2775	S2776	Y2777	G2778	E2779	M2780	V2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	F2793	Y2794	K2795	L2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	I2804	Y2805	R2806	W2807	I2809	K2810		
E2811	S2812	L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	R2827	G2828	G2829	E2830	GLU	GLU	THR	GLU	LYS	LYS	LYS	ARG	LYS	ILE	SER	GLN	ALA	GLN	THR	Y2849	D2850	P2851	R2852	E2853	G2854	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	R2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	Q2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	E2921	K2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930
Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	G2940	LEU	LYS	ASP	MET	GLU	LEU	ASP	THR	SER	ILE	GLU	LYS	ARG	PHE	PHE	GLY	PHE	LEU	GLN	LEU	LEU	ARG	TRP	ASP	ILE	SER	GLN	GLU	ILE	ALA	HIS	LEU	GLU	VAL	VAL	SER	SER	GLY	ARG	VAL	GLU	LYS	SER	PRO					









A3407	L3408	P3409	P3410	L3411	L3412	L3413	L3414	L3415	L3416	L3417	L3418	L3419	L3420	L3421	L3422	L3423	L3424	THR	P3427	N3428	A3431	E3432	E3433	L3434	F3435	ARG	MET	V3438	G3439	E3440	I3441	Y3444	W3445	S3446	K3447	H3448	H3449	R3453	E3454	E3455	Q3456	N3457	F3458	W3462	N3465	S3468	F3469	L3470	THR	ALA	ASP	SER	Y3406	PHE	VAL	LEU	C3402	R3403	L3404	L3405	Y3406		
ALA	GLN	PRO	ILE	V3346	S3347	R3348	A3349	R3350	P3351	E3352	L3353	L3354	H3355	S3356	H3357	F3358	I3359	P3360	T3361	I3362	G3363	ARG	LEU	LEU	ARG	K3367	R3368	A3369	G3370	K3371	A3374	Q3378	L3381	E3382	A3383	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	PHE	SER	VAL	LEU	C3402	R3403	L3404	L3405	Y3406							
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S3217	VAL	THR	THR	LYS	SER	ARG	GLU	ARG	ALA	ILE	LEU	GLY	LEU	PRO	ASN	SER	VAL	GLU	GLU	MET	CYS	PRO	ASP	ILE	PRO	VAL	LEU	ASP	LEU	ALA	ASP	ILE	GLY	GLY	ALA	GLU	SER	GLY	ALA	ARG	TYR	THR	GLU	VAL	MET	PRO	HIS	ILE	ILE	T3273	L3274	P3275	M3276	Y3406									
T3141	F3144	Q3145	H3146	I3147	Q3148	Q3149	H3150	Q3151	Q3152	GLY	ASP	ASP	VAL	ILE	L3158	D3159	D3160	S3164	C3170	T3178	LYS	ASN	THR	TYR	V3183	E3184	K3185	P3188	A3189	E3192	C3193	L3194	A3195	R3196	L3197	A3198	A3199	MET	PRO	VAL	A3204	F3205	L3206	E3207	Q3208	L3210	N3211	E3212	A3215	C3216	Y3406												
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GLU	LYS	SER	PRO	HIS	GLU	GLN	GLU	ILE	LYS	PHE	PHE	ALA	LYS	ILE	ASN	GLN	TYR	PHE	THR	ASN	HIS	CYS	LEU	Y3016	F3017	L3018	S3019	T3020	P3021	A3022	H3030	A3031	S3032	N3033	K3036	E3037	M3038	I3039	THR	SER	LEU	F3043	C3044	K3045	P3062	ALA	VAL	VAL	ASN	CYS	L3068	Y3406											
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L2867	S2868	R2869	E2870	L2871	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	L2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2850	P2851	R2852	E2853	G2854	N2855	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	V2865	T2866	Y3406						
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VAL	T2667	S2668	I2682	L2686	ALA	HIS	LYS	LYS	Y2691	L2583	A2584	M2700	P2701	C2702	L2703	I2706	A2707	G2708	A2709	L2710	P2711	P2712	ASP	TYR	VAL	ASP	ALA	SER	TYR	SER	LYS	LYS	ALA	GLU	LYS	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2754	F2735	D2736	P2737	R2738	P2739	V2740	E2741	T2742	L2743	N2744	V2745	I2746	Y3406							
T2562	THR	LYS	CYS	ALA	P2567	L2568	G2571	H2574	L2583	H2584	T2585	V2586	TYR	ARG	LEU	SER	R2591	D2601	A2609	LEU	CYS	ARG	TYR	ILE	R2615	P2616	R2625	L2626	D2629	V2630	P2631	L2632	L2633	M2634	GLU	PHE	ALA	K2638	M2639	P2640	Y2655	C2656	L2657	P2658	T2659	G2660	TRP	ALA	ASN	PHE	GLY	Y3406											



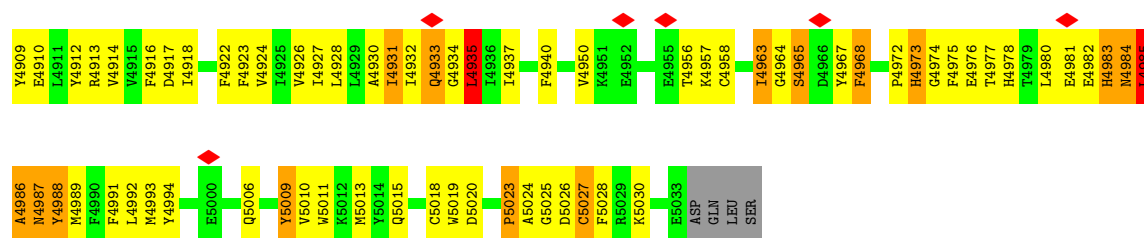




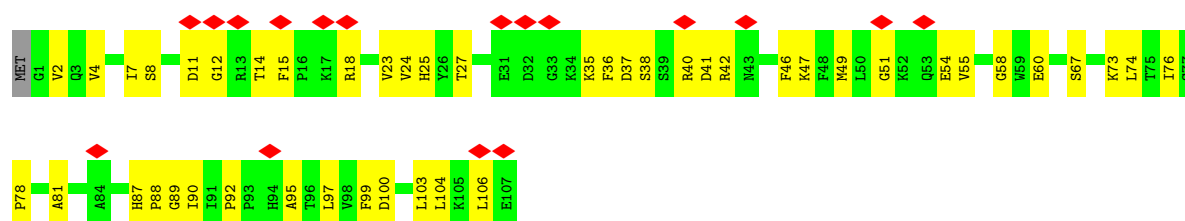
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L2138	P2139	R2140	A2141	Y2142	T2143	S2144	P2146	V2149	E2150	D2151	T2152	M2153	S2154	GLY	L2156	E2157	C2158	L2159	G2160	Q2161	I2162	R2163	S2164	L2165	L2166	L2167	V2168	GLN	MET	GLY	PRO	Q2173	E2174	M2178	G2183	N2184	N2187	N2188	K2189	V2190	F2191	Y2192	L2197	L2198	M2203	H2204	E2205	T2206	V2207	M2208	E2209	V2210																			
N2211	V2212	N2213	P2214	L2215	G2216	GLY	GLY	THR	LYS	GLY	ILE	ARG	PHE	P2226	V2229	C2233	R2234	F2235	Y2238	T2242	S2243	ASP	L2245	Q2246	N2247	R2248	F2251	D2252	H2253	L2254	S2255	Y2256	E2259	N2260	L2263	GLY	LEU	MET	GLN	GLY	SER	T2271	P2272	V2275	D2282	L2283	L2286																								
A2287	L2288	D2294	L2295	E2296	V2299	S2300	Y2301	L2302	A2303	L2307	GLN	SER	CYS	PRO	MET	LEU	ALA	LYS	GLY	TYR	T2242	S2243	ASP	L2245	Q2246	N2247	R2248	F2251	D2252	H2253	L2254	S2255	Y2256	E2259	N2260	L2263	GLY	LEU	MET	GLN	GLY	SER	T2271	P2272	V2275	D2282	L2283	L2286																							
L2358	R2359	K2360	P2361	E2362	CYS	PHE	GLY	PRO	ALA	LEU	ARG	GLY	GLY	GLY	SER	G2375	A2379	A2383	I2384	R2385	SER	GLU	ASP	PRO	GLY	ASP	ALA	ASP	GLY	PRO	GLY	VAL	ARG	ARG	GLU	HIS	PHE	GLY	GLY	GLU	PRO	PRO	GLU	ASN	ARG	VAL	HIS	LEU	G2419	M2423																					
I2430	G2434	R2435	C2436	A2437	PRO	GLU	MET	HIS	LEU	ILE	GLN	ALA	GLY	LYS	GLY	F2449	A2450	I2453	I2456	VAL	PRO	L2463	D2464	D2465	L2466	V2467	S2471	L2472	P2473	L2474	Q2475	I2476	PRO	THR	LEU	GLY	LYS	ASP	GLY	ALA	VAL	GLN	PRO	MET	SER	ALA	SER	V2495																							
H2498	K2499	A2500	S2501	M2502	V2503	L2504	F2505	L2506	D2507	R2508	V2509	Y2510	ILE	GLY	N2514	Q2515	D2516	F2517	L2518	L2522	ASP	V2524	R2531	A2532	A2533	A2534	S2535	ASP	THR	ALA	THR	THR	THR	T2544	A2547	L2550	N2551	R2552	Y2553	L2554	A2557	V2558	L2559	P2560	L2561	I2562	THR	LYS	CYS	ALA	P2567																				
L2568	G2571	H2574	L2583	H2584	T2585	V2586	TYR	ARG	LEU	SER	R2591	D2601	A2609	LEU	CYS	ARG	TYR	ILE	R2615	P2616	R2625	L2626	D2629	V2630	P2631	L2632	L2633	R2634	GLU	PHE	ALA	K2638	M2639	P2640	Y2655	L2656	L2657	P2658	T2659	G2660	TRP	ALA	ASN	PHE	GLY	VAL	T2667	S2668	T2682																						
L2686	ALA	HIS	LYS	LYS	Y2691	A2699	M2700	P2701	C2702	L2703	I2706	A2707	G2708	A2709	L2710	P2711	ASP	TYR	VAL	ASP	ALA	SER	TYR	LYS	ALA	GLU	LYS	ALA	GLY	ASP	ALA	ALA	GLU	GLY	N2734	F2735	D2736	R2737	R2738	P2739	V2740	E2741	T2742	L2743	N2744	V2745	I2746	L2747	E2748	K2750	L2751	D2752																			
S2753	F2754	I2755	N2756	L2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	D2769	K2770	I2771	Q2772	N2773	M2774	W2775	S2776	Y2777	G2778	E2779	M2780	V2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	F2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	E2803	I2804	Y2805	W2806	W2807	P2808	I2809	E2811	S2812														
L2813	K2814	A2815	M2816	I2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLU	THR	GLY	LYS	LYS	THR	ARG	LYS	ILE	SER	GLN	ALA	GLN	THR	Y2849	D2850	P2851	R2852	E2853	G2854	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	G2864	V2865	T2866	L2867	R2868	R2869	E2870	L2871	Q2872															
A2873	M2874	A2875	E2876	Q2877	L2878	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	E2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	K2913	E2914	E2915	K2916	A2917	R2918	D2919	R2920	E2921	K2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932													
N2933	G2934	Y2935	A2936	V2937	T2938	R2939	G2940	LEU	LYS	ASP	MET	GLU	LEU	GLY	THR	ASP	THR	GLY	LEU	VAL	L2063	R2064	S2065	L2066	L2067	E2068	T2069	V2070	R2071	L2072	VAL	LYS	L2151	T2152	M2153	S2154	GLY	GLY	LYS	PRO	ALA	GLU	LYS	LYS	PRO	LEU	PRO	ALA	GLY	GLN	S2093	V2098	R2101	V2102	A2106	Q2107	Q2112	S2113	E2115	L2116	R2120	L2123	L2124	R2125	R2126	Q2127	E2133	L2134	L2135	R2136	L2137



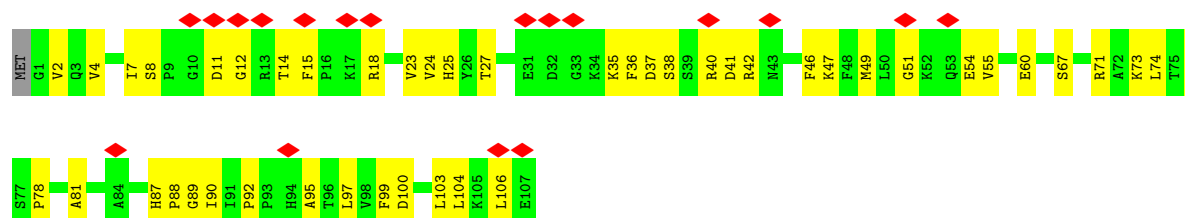




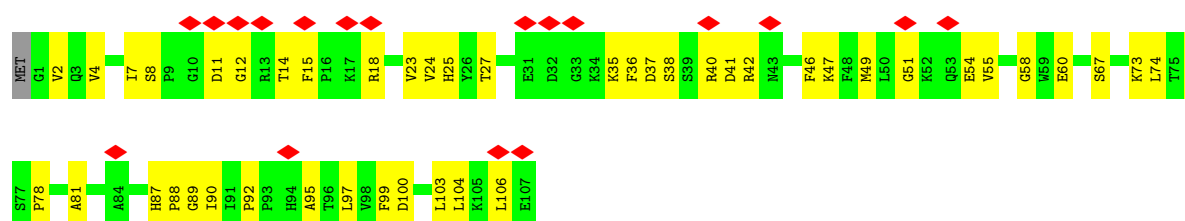
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



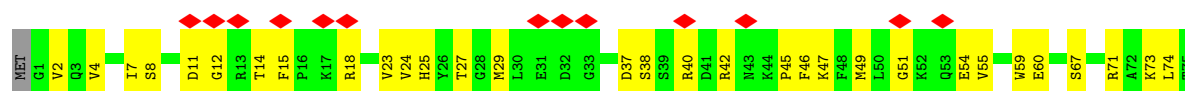
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

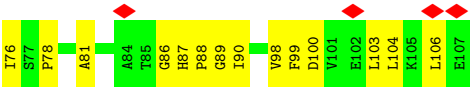


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	119000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.382	Depositor
Minimum map value	-0.148	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.085	Depositor
Map size (Å)	482.40002, 482.40002, 482.40002	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.34, 1.34, 1.34	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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.08	60/27395 (0.2%)	1.09	104/37119 (0.3%)
1	C	1.08	59/27395 (0.2%)	1.09	107/37119 (0.3%)
1	E	1.08	59/27395 (0.2%)	1.09	106/37119 (0.3%)
1	G	1.08	56/27395 (0.2%)	1.09	107/37119 (0.3%)
2	B	0.86	0/851	0.94	0/1146
2	D	0.86	0/851	0.94	0/1146
2	F	0.86	0/851	0.94	0/1146
2	H	0.88	1/851 (0.1%)	0.94	0/1146
All	All	1.07	235/112984 (0.2%)	1.09	424/153060 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	17
1	C	0	17
1	E	0	17
1	G	0	16
All	All	0	67

All (235) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2853	GLU	CD-OE1	10.54	1.45	1.25
1	E	2853	GLU	CD-OE1	10.51	1.45	1.25
1	G	2853	GLU	CD-OE1	10.28	1.44	1.25
1	C	2853	GLU	CD-OE1	10.19	1.44	1.25
1	A	4181	ILE	CA-C	-8.29	1.45	1.52
1	E	4181	ILE	CA-C	-8.25	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4181	ILE	CA-C	-8.23	1.45	1.52
1	C	5023	PRO	CA-C	-7.56	1.42	1.52
1	E	4181	ILE	CA-CB	-7.49	1.45	1.54
1	E	5023	PRO	CA-C	-7.45	1.42	1.52
1	E	5024	ALA	CA-C	-7.43	1.44	1.52
1	A	4181	ILE	CA-CB	-7.40	1.45	1.54
1	G	4985	LEU	CA-C	-7.40	1.42	1.52
1	A	5024	ALA	CA-C	-7.38	1.44	1.52
1	G	5023	PRO	CA-C	-7.36	1.42	1.52
1	A	5023	PRO	CA-C	-7.35	1.42	1.52
1	C	5024	ALA	CA-C	-7.33	1.44	1.52
1	C	4181	ILE	CA-CB	-7.30	1.45	1.54
1	C	4985	LEU	CA-C	-7.28	1.43	1.52
1	A	5027	CYS	N-CA	-7.28	1.36	1.46
1	C	5027	CYS	N-CA	-7.25	1.36	1.46
1	E	4985	LEU	CA-C	-7.22	1.43	1.52
1	G	5027	CYS	N-CA	-7.19	1.36	1.46
1	E	5027	CYS	N-CA	-7.18	1.36	1.46
1	G	4182	GLU	C-O	-7.17	1.15	1.24
1	A	4985	LEU	CA-C	-7.13	1.43	1.52
1	G	5024	ALA	CA-C	-7.06	1.45	1.52
1	C	1254	HIS	C-O	-7.01	1.15	1.24
1	E	1254	HIS	C-O	-6.98	1.15	1.24
1	G	4181	ILE	CA-CB	-6.98	1.45	1.54
1	G	1254	HIS	C-O	-6.98	1.15	1.24
1	A	1254	HIS	C-O	-6.95	1.15	1.24
1	G	4181	ILE	CA-C	-6.91	1.45	1.53
1	C	67	PHE	C-O	-6.81	1.15	1.23
1	G	67	PHE	C-O	-6.79	1.15	1.23
1	A	67	PHE	C-O	-6.78	1.15	1.23
1	E	67	PHE	C-O	-6.64	1.15	1.23
1	G	267	ILE	C-O	-6.63	1.16	1.24
1	E	267	ILE	C-O	-6.62	1.16	1.24
1	C	267	ILE	C-O	-6.57	1.16	1.24
1	G	3915	ILE	N-CA	-6.56	1.38	1.46
1	A	267	ILE	C-O	-6.54	1.16	1.24
1	C	36	CYS	C-O	-6.53	1.15	1.24
1	G	36	CYS	C-O	-6.46	1.15	1.24
1	C	4235	VAL	N-CA	-6.46	1.38	1.46
1	E	4235	VAL	CA-CB	-6.46	1.45	1.54
1	A	4235	VAL	CA-CB	-6.45	1.45	1.54
1	C	4235	VAL	CA-CB	-6.44	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1120	LEU	C-O	-6.44	1.15	1.24
1	A	36	CYS	C-O	-6.44	1.15	1.24
1	E	36	CYS	C-O	-6.43	1.15	1.24
1	E	4235	VAL	N-CA	-6.43	1.38	1.46
1	G	3722	TYR	CA-C	-6.42	1.44	1.52
1	E	1120	LEU	C-O	-6.41	1.15	1.24
1	A	4235	VAL	N-CA	-6.38	1.38	1.46
1	G	4848	VAL	C-O	-6.37	1.16	1.24
1	C	1120	LEU	C-O	-6.32	1.15	1.24
1	A	1120	LEU	C-O	-6.32	1.15	1.24
1	G	3809	ASN	C-O	-6.30	1.16	1.23
1	C	4182	GLU	C-O	-6.30	1.15	1.23
1	A	4182	GLU	C-O	-6.28	1.15	1.23
1	G	1602	PRO	C-O	-6.28	1.16	1.23
1	C	4968	PHE	CG-CD1	-6.25	1.25	1.38
1	E	4182	GLU	C-O	-6.25	1.15	1.23
1	A	4968	PHE	CG-CD1	-6.23	1.25	1.38
1	E	4968	PHE	CG-CD1	-6.23	1.25	1.38
1	G	4968	PHE	CG-CD1	-6.22	1.25	1.38
1	A	1602	PRO	C-O	-6.20	1.16	1.23
1	A	563	VAL	CA-C	-6.19	1.45	1.52
1	C	563	VAL	CA-C	-6.17	1.45	1.52
1	E	4853	VAL	C-O	-6.17	1.16	1.24
1	G	116	MET	C-O	-6.16	1.16	1.23
1	G	3886	ARG	CA-C	-6.15	1.44	1.52
1	C	1602	PRO	C-O	-6.15	1.16	1.23
1	E	1602	PRO	C-O	-6.13	1.16	1.23
1	G	563	VAL	CA-C	-6.11	1.45	1.52
1	A	116	MET	C-O	-6.10	1.16	1.23
1	E	563	VAL	CA-C	-6.09	1.45	1.52
1	C	116	MET	C-O	-6.08	1.16	1.23
1	E	116	MET	C-O	-6.08	1.16	1.23
1	G	4193	ILE	C-O	-6.07	1.15	1.24
1	C	4965	SER	CA-C	-6.01	1.44	1.52
1	E	4965	SER	CA-C	-6.01	1.44	1.52
1	E	4963	ILE	CA-C	-6.01	1.45	1.52
1	G	4988	TYR	CG-CD1	-5.96	1.26	1.39
1	G	4982	GLU	CA-C	-5.96	1.44	1.52
1	A	4982	GLU	CA-C	-5.95	1.44	1.52
1	A	4963	ILE	CA-C	-5.95	1.45	1.52
1	E	5026	ASP	C-O	-5.94	1.16	1.23
1	E	4982	GLU	CA-C	-5.92	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	5026	ASP	C-O	-5.89	1.16	1.23
1	A	4965	SER	CA-C	-5.88	1.44	1.52
1	A	3903	LEU	C-O	-5.85	1.16	1.24
1	C	4982	GLU	CA-C	-5.85	1.45	1.52
1	G	5026	ASP	C-O	-5.83	1.17	1.23
1	C	3903	LEU	C-O	-5.82	1.16	1.24
1	C	4963	ILE	CA-C	-5.82	1.45	1.52
1	A	5026	ASP	C-O	-5.80	1.17	1.23
1	G	4234	PHE	CA-C	-5.80	1.45	1.52
1	C	3722	TYR	CA-C	-5.80	1.45	1.52
1	G	3888	LEU	N-CA	-5.79	1.39	1.46
1	E	3722	TYR	CA-C	-5.78	1.45	1.52
1	A	3820	LEU	N-CA	-5.77	1.39	1.46
1	E	3903	LEU	C-O	-5.77	1.16	1.24
1	C	4932	ILE	C-O	5.76	1.30	1.24
1	A	3722	TYR	CA-C	-5.71	1.45	1.52
1	A	4932	ILE	C-O	5.70	1.30	1.24
1	A	4994	TYR	CA-C	-5.61	1.45	1.52
1	A	3886	ARG	CA-C	-5.60	1.45	1.52
1	G	4924	VAL	C-O	5.59	1.30	1.24
1	A	4853	VAL	C-O	-5.55	1.16	1.24
1	C	3886	ARG	CA-C	-5.54	1.45	1.52
1	G	5009	TYR	CA-C	-5.54	1.45	1.52
1	E	4927	ILE	CA-C	-5.54	1.45	1.52
1	C	4193	ILE	C-O	-5.54	1.16	1.24
1	C	4853	VAL	C-O	-5.53	1.16	1.24
1	E	4994	TYR	CA-C	-5.52	1.45	1.52
1	A	3920	VAL	N-CA	-5.49	1.39	1.46
1	C	3920	VAL	N-CA	-5.49	1.39	1.46
1	C	4994	TYR	CA-C	-5.49	1.45	1.52
1	E	3888	LEU	N-CA	-5.48	1.39	1.46
1	E	3886	ARG	CA-C	-5.48	1.45	1.52
1	E	3784	SER	C-O	-5.46	1.17	1.24
1	C	3915	ILE	N-CA	-5.46	1.39	1.46
2	H	99	PHE	C-O	-5.45	1.17	1.23
1	C	3888	LEU	N-CA	-5.45	1.39	1.46
1	C	3820	LEU	N-CA	-5.45	1.39	1.46
1	E	273	HIS	CA-C	-5.45	1.46	1.52
1	E	3820	LEU	N-CA	-5.44	1.39	1.46
1	G	4994	TYR	CA-C	-5.44	1.45	1.52
1	A	3915	ILE	N-CA	-5.43	1.39	1.46
1	C	4177	TYR	C-O	-5.43	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	3915	ILE	N-CA	-5.43	1.39	1.46
1	A	273	HIS	CA-C	-5.42	1.46	1.52
1	G	273	HIS	CA-C	-5.42	1.46	1.52
1	A	4179	GLY	CA-C	-5.42	1.46	1.52
1	E	4179	GLY	CA-C	-5.41	1.46	1.52
1	A	4936	ILE	C-O	5.41	1.31	1.24
1	C	3784	SER	C-O	-5.39	1.17	1.24
1	A	3901	ASN	N-CA	-5.39	1.39	1.46
1	C	3901	ASN	N-CA	-5.39	1.39	1.46
1	G	4234	PHE	CG-CD1	-5.39	1.27	1.38
1	C	3782	MET	CA-C	-5.38	1.45	1.52
1	A	3784	SER	C-O	-5.37	1.17	1.24
1	C	4988	TYR	CG-CD1	-5.37	1.28	1.39
1	E	3920	VAL	N-CA	-5.37	1.39	1.46
1	E	3901	ASN	N-CA	-5.36	1.39	1.46
1	E	3782	MET	CA-C	-5.36	1.45	1.52
1	G	4963	ILE	CA-C	-5.35	1.45	1.52
1	A	316	PHE	C-O	-5.35	1.17	1.23
1	A	4927	ILE	CA-C	-5.35	1.46	1.52
1	C	4179	GLY	CA-C	-5.34	1.46	1.52
1	E	4193	ILE	C-O	-5.34	1.16	1.24
1	G	3721	LEU	C-O	-5.34	1.17	1.24
1	A	3782	MET	CA-C	-5.34	1.45	1.52
1	A	4193	ILE	C-O	-5.33	1.16	1.24
1	C	273	HIS	CA-C	-5.33	1.46	1.52
1	A	3888	LEU	N-CA	-5.33	1.39	1.46
1	E	3967	GLU	C-O	-5.32	1.17	1.24
1	G	316	PHE	C-O	-5.32	1.17	1.23
1	G	4178	LEU	CA-C	-5.32	1.47	1.53
1	A	3967	GLU	C-O	-5.31	1.17	1.24
1	E	5028	PHE	CA-C	-5.30	1.45	1.52
1	G	4933	GLN	CA-C	-5.30	1.45	1.52
1	A	117	TYR	C-O	-5.30	1.17	1.23
1	C	3967	GLU	C-O	-5.30	1.17	1.24
1	G	117	TYR	C-O	-5.30	1.17	1.23
1	E	4177	TYR	C-O	-5.29	1.16	1.23
1	G	4183	ILE	C-O	5.29	1.29	1.23
1	E	316	PHE	C-O	-5.28	1.17	1.23
1	E	117	TYR	C-O	-5.27	1.17	1.23
1	A	1199	VAL	C-O	-5.27	1.18	1.24
1	G	4963	ILE	CA-CB	-5.26	1.47	1.54
1	A	5028	PHE	CA-C	-5.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4177	TYR	C-O	-5.26	1.16	1.23
1	C	2282	ASP	CA-C	-5.26	1.49	1.52
1	E	4173	TYR	CA-C	-5.26	1.45	1.52
1	A	4988	TYR	CG-CD1	-5.25	1.28	1.39
1	C	117	TYR	C-O	-5.25	1.17	1.23
1	C	1661	ARG	CA-C	-5.24	1.46	1.52
1	A	4173	TYR	CA-C	-5.22	1.46	1.52
1	E	4988	TYR	CG-CD1	-5.22	1.28	1.39
1	C	4173	TYR	CA-C	-5.22	1.46	1.52
1	E	4932	ILE	C-O	5.21	1.29	1.24
1	A	1661	ARG	CA-C	-5.18	1.46	1.52
1	E	1661	ARG	CA-C	-5.18	1.46	1.52
1	G	1661	ARG	CA-C	-5.18	1.46	1.52
1	C	4927	ILE	CA-C	-5.18	1.46	1.52
1	C	316	PHE	C-O	-5.17	1.17	1.23
1	A	4182	GLU	CA-C	-5.17	1.46	1.52
1	G	1199	VAL	C-O	-5.17	1.18	1.24
1	E	4180	ARG	C-O	-5.15	1.17	1.23
1	A	5018	CYS	CA-C	-5.15	1.45	1.52
1	E	5018	CYS	CA-C	-5.15	1.45	1.52
1	G	3776	ALA	CA-C	-5.15	1.45	1.52
1	A	3789	GLU	C-O	-5.15	1.17	1.23
1	C	4180	ARG	C-O	-5.14	1.17	1.23
1	G	4956	THR	CA-C	-5.14	1.49	1.52
1	A	2282	ASP	CA-C	-5.13	1.49	1.52
1	E	2282	ASP	CA-C	-5.13	1.49	1.52
1	C	4989	MET	CA-C	-5.13	1.46	1.52
1	C	858	THR	N-CA	5.13	1.52	1.46
1	E	4182	GLU	CA-C	-5.12	1.46	1.52
1	A	858	THR	N-CA	5.12	1.52	1.46
1	C	5018	CYS	CA-C	-5.11	1.45	1.52
1	C	1199	VAL	C-O	-5.11	1.18	1.24
1	G	858	THR	N-CA	5.10	1.52	1.46
1	E	3968	TYR	CA-C	-5.10	1.45	1.52
1	G	5020	ASP	CA-C	-5.10	1.45	1.52
1	E	858	THR	N-CA	5.09	1.52	1.46
1	E	1199	VAL	C-O	-5.09	1.18	1.24
1	G	2282	ASP	CA-C	-5.09	1.49	1.52
1	C	3968	TYR	CA-C	-5.08	1.45	1.52
1	C	5028	PHE	CA-C	-5.08	1.45	1.52
1	A	3968	TYR	CA-C	-5.07	1.45	1.52
1	C	4182	GLU	CA-C	-5.07	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4195	PHE	CA-C	-5.07	1.46	1.52
1	G	4965	SER	CA-C	-5.06	1.46	1.52
1	G	3722	TYR	C-O	-5.06	1.18	1.24
1	A	4180	ARG	C-O	-5.06	1.17	1.23
1	G	110	ARG	CA-C	-5.05	1.46	1.52
1	G	3725	TYR	C-O	-5.05	1.17	1.24
1	G	4216	GLN	CA-C	-5.05	1.46	1.52
1	G	2853	GLU	CG-CD	5.05	1.64	1.52
1	C	4849	TYR	CA-C	-5.05	1.46	1.52
1	C	4183	ILE	N-CA	5.04	1.51	1.46
1	E	110	ARG	CA-C	-5.04	1.46	1.52
1	E	4989	MET	CA-C	-5.03	1.46	1.52
1	E	2853	GLU	CG-CD	5.03	1.64	1.52
1	C	110	ARG	CA-C	-5.03	1.46	1.52
1	A	4183	ILE	N-CA	5.02	1.51	1.46
1	G	4987	ASN	N-CA	-5.02	1.39	1.46
1	A	4216	GLN	CA-C	-5.00	1.45	1.52
1	A	110	ARG	CA-C	-5.00	1.46	1.52
1	G	3789	GLU	C-O	-5.00	1.17	1.23

All (424) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	915	GLU	CA-C-N	14.52	137.99	119.84
1	C	915	GLU	C-N-CA	14.52	137.99	119.84
1	G	915	GLU	CA-C-N	14.40	137.84	119.84
1	G	915	GLU	C-N-CA	14.40	137.84	119.84
1	E	915	GLU	CA-C-N	14.39	137.83	119.84
1	E	915	GLU	C-N-CA	14.39	137.83	119.84
1	A	915	GLU	CA-C-N	14.34	137.77	119.84
1	A	915	GLU	C-N-CA	14.34	137.77	119.84
1	A	805	PRO	CA-C-N	11.73	131.86	119.90
1	A	805	PRO	C-N-CA	11.73	131.86	119.90
1	C	805	PRO	CA-C-N	11.72	131.85	119.90
1	C	805	PRO	C-N-CA	11.72	131.85	119.90
1	E	805	PRO	CA-C-N	11.54	131.67	119.90
1	E	805	PRO	C-N-CA	11.54	131.67	119.90
1	C	1828	ASP	CA-C-N	9.67	131.93	119.84
1	C	1828	ASP	C-N-CA	9.67	131.93	119.84
1	G	1828	ASP	CA-C-N	9.67	131.92	119.84
1	G	1828	ASP	C-N-CA	9.67	131.92	119.84
1	E	1828	ASP	CA-C-N	9.65	131.90	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1828	ASP	C-N-CA	9.65	131.90	119.84
1	A	1828	ASP	CA-C-N	9.59	131.83	119.84
1	A	1828	ASP	C-N-CA	9.59	131.83	119.84
1	G	805	PRO	CA-C-N	9.49	131.70	119.84
1	G	805	PRO	C-N-CA	9.49	131.70	119.84
1	C	4083	ASP	CA-C-N	9.43	131.63	119.84
1	C	4083	ASP	C-N-CA	9.43	131.63	119.84
1	E	4083	ASP	CA-C-N	9.36	131.54	119.84
1	E	4083	ASP	C-N-CA	9.36	131.54	119.84
1	A	4083	ASP	CA-C-N	9.33	131.50	119.84
1	A	4083	ASP	C-N-CA	9.33	131.50	119.84
1	G	4083	ASP	CA-C-N	9.12	131.24	119.84
1	G	4083	ASP	C-N-CA	9.12	131.24	119.84
1	G	803	LEU	CA-C-N	8.56	125.91	119.66
1	G	803	LEU	C-N-CA	8.56	125.91	119.66
1	A	803	LEU	CA-C-N	8.37	125.77	119.66
1	A	803	LEU	C-N-CA	8.37	125.77	119.66
1	C	3360	PRO	N-CA-CB	7.99	111.99	103.52
1	E	3360	PRO	N-CA-CB	7.97	111.97	103.52
1	A	3360	PRO	N-CA-CB	7.96	111.95	103.52
1	C	1736	VAL	N-CA-C	7.93	116.73	108.95
1	C	2711	PRO	N-CA-CB	7.93	110.77	103.08
1	A	2711	PRO	N-CA-CB	7.90	110.75	103.08
1	G	1736	VAL	N-CA-C	7.90	116.70	108.95
1	G	3302	PRO	N-CA-CB	7.89	110.74	103.08
1	E	2711	PRO	N-CA-CB	7.85	110.69	103.08
1	A	1736	VAL	N-CA-C	7.84	116.63	108.95
1	E	1736	VAL	N-CA-C	7.84	116.63	108.95
1	E	3302	PRO	N-CA-CB	7.84	110.68	103.08
1	A	3302	PRO	N-CA-CB	7.80	110.65	103.08
1	C	3302	PRO	N-CA-CB	7.78	110.63	103.08
1	E	1195	GLY	N-CA-C	-7.77	102.83	112.23
1	E	803	LEU	CA-C-N	7.74	125.31	119.66
1	E	803	LEU	C-N-CA	7.74	125.31	119.66
1	G	1195	GLY	N-CA-C	-7.68	102.93	112.23
1	G	2711	PRO	N-CA-CB	7.67	110.52	103.08
1	C	1195	GLY	N-CA-C	-7.65	102.97	112.23
1	A	1195	GLY	N-CA-C	-7.61	103.02	112.23
1	G	3275	PRO	N-CA-CB	7.50	111.47	103.52
1	G	3301	PRO	N-CA-CB	7.48	110.34	103.08
1	C	3275	PRO	N-CA-CB	7.48	111.46	103.39
1	A	3062	PRO	N-CA-CB	7.46	111.21	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1293	LEU	CA-C-N	7.46	127.39	119.85
1	G	1293	LEU	C-N-CA	7.46	127.39	119.85
1	C	3301	PRO	N-CA-CB	7.46	110.31	103.08
1	E	3062	PRO	N-CA-CB	7.45	111.19	103.00
1	G	3360	PRO	N-CA-CB	7.44	111.43	103.39
1	E	3301	PRO	N-CA-CB	7.43	110.29	103.08
1	C	3062	PRO	N-CA-CB	7.42	111.16	103.00
1	E	3275	PRO	N-CA-CB	7.42	111.38	103.52
1	A	3275	PRO	N-CA-CB	7.41	111.37	103.52
1	A	3301	PRO	N-CA-CB	7.41	110.27	103.08
1	E	1293	LEU	CA-C-N	7.40	127.32	119.85
1	E	1293	LEU	C-N-CA	7.40	127.32	119.85
1	C	1226	PHE	N-CA-C	7.36	120.24	111.33
1	C	3289	PRO	N-CA-CB	7.33	111.30	103.39
1	G	3062	PRO	N-CA-CB	7.29	111.01	103.00
1	E	3289	PRO	N-CA-CB	7.28	111.25	103.39
1	C	1293	LEU	CA-C-N	7.26	127.18	119.85
1	C	1293	LEU	C-N-CA	7.26	127.18	119.85
1	A	3289	PRO	N-CA-CB	7.26	111.23	103.39
1	A	1226	PHE	N-CA-C	7.26	120.11	111.33
1	E	1226	PHE	N-CA-C	7.25	120.10	111.33
1	G	1226	PHE	N-CA-C	7.23	120.08	111.33
1	A	1293	LEU	CA-C-N	7.21	127.14	119.85
1	A	1293	LEU	C-N-CA	7.21	127.14	119.85
1	G	3289	PRO	N-CA-CB	7.21	111.18	103.39
1	A	2640	PRO	N-CA-CB	7.18	111.13	103.52
1	A	1592	PRO	CA-C-N	7.17	127.15	119.76
1	A	1592	PRO	C-N-CA	7.17	127.15	119.76
1	C	3303	PRO	N-CA-CB	7.17	111.22	103.33
1	E	2640	PRO	N-CA-CB	7.16	111.11	103.52
1	E	3303	PRO	N-CA-CB	7.15	111.20	103.33
1	C	2640	PRO	N-CA-CB	7.13	111.08	103.52
1	G	2640	PRO	N-CA-CB	7.12	111.07	103.52
1	C	1110	ARG	CA-C-N	7.11	127.11	119.28
1	C	1110	ARG	C-N-CA	7.11	127.11	119.28
1	A	3303	PRO	N-CA-CB	7.10	111.14	103.33
1	E	3351	PRO	N-CA-CB	7.07	111.02	103.39
1	G	2701	PRO	N-CA-CB	7.06	111.00	103.52
1	G	1592	PRO	CA-C-N	7.05	127.02	119.76
1	G	1592	PRO	C-N-CA	7.05	127.02	119.76
1	C	3410	PRO	N-CA-CB	7.05	111.00	103.52
1	C	3351	PRO	N-CA-CB	7.05	111.00	103.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2701	PRO	N-CA-CB	7.04	110.99	103.52
1	E	3410	PRO	N-CA-CB	7.04	110.98	103.52
1	E	3567	PRO	N-CA-CB	7.04	110.98	103.52
1	A	3410	PRO	N-CA-CB	7.03	110.97	103.52
1	C	2701	PRO	N-CA-CB	7.03	110.97	103.52
1	A	3351	PRO	N-CA-CB	7.03	110.98	103.39
1	C	3138	PRO	N-CA-CB	7.03	110.97	103.52
1	E	1592	PRO	CA-C-N	7.03	127.00	119.76
1	E	1592	PRO	C-N-CA	7.03	127.00	119.76
1	E	3138	PRO	N-CA-CB	7.02	110.96	103.52
1	G	3527	PRO	N-CA-CB	7.00	110.70	103.00
1	G	3021	PRO	N-CA-CB	7.00	110.94	103.52
1	E	2701	PRO	N-CA-CB	6.99	110.93	103.52
1	A	3138	PRO	N-CA-CB	6.99	110.93	103.52
1	E	1110	ARG	CA-C-N	6.98	126.96	119.28
1	E	1110	ARG	C-N-CA	6.98	126.96	119.28
1	E	1735	ILE	N-CA-C	6.98	113.68	106.21
1	A	3297	PRO	N-CA-CB	6.97	110.91	103.52
1	A	3567	PRO	N-CA-CB	6.97	110.91	103.52
1	C	3297	PRO	N-CA-CB	6.96	110.90	103.52
1	C	1592	PRO	CA-C-N	6.96	126.93	119.76
1	C	1592	PRO	C-N-CA	6.96	126.93	119.76
1	A	1735	ILE	N-CA-C	6.95	113.65	106.21
1	C	3294	PRO	N-CA-CB	6.95	110.64	103.00
1	E	3188	PRO	N-CA-CB	6.95	110.89	103.52
1	G	1735	ILE	N-CA-C	6.95	113.65	106.21
1	A	1110	ARG	CA-C-N	6.95	126.92	119.28
1	A	1110	ARG	C-N-CA	6.95	126.92	119.28
1	C	3188	PRO	N-CA-CB	6.94	110.87	103.52
1	E	3297	PRO	N-CA-CB	6.94	110.87	103.52
1	E	3294	PRO	N-CA-CB	6.93	110.63	103.00
1	C	3567	PRO	N-CA-CB	6.93	110.86	103.52
1	A	3294	PRO	N-CA-CB	6.92	110.61	103.00
1	G	3297	PRO	N-CA-CB	6.92	110.85	103.52
1	G	3282	PRO	N-CA-CB	6.89	110.82	103.52
1	A	3188	PRO	N-CA-CB	6.87	110.80	103.52
1	E	3527	PRO	N-CA-CB	6.86	110.55	103.00
1	G	3294	PRO	N-CA-CB	6.86	110.55	103.00
1	G	1110	ARG	CA-C-N	6.85	126.82	119.28
1	G	1110	ARG	C-N-CA	6.85	126.82	119.28
1	C	1735	ILE	N-CA-C	6.85	113.54	106.21
1	A	858	THR	N-CA-CB	6.84	122.06	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3527	PRO	N-CA-CB	6.84	110.52	103.00
1	E	2160	GLY	N-CA-C	-6.84	104.53	112.73
1	E	858	THR	N-CA-CB	6.83	122.04	110.49
1	C	858	THR	N-CA-CB	6.83	122.02	110.49
1	G	858	THR	N-CA-CB	6.80	121.99	110.49
1	G	3303	PRO	N-CA-CB	6.79	110.80	103.33
1	C	3527	PRO	N-CA-CB	6.79	110.47	103.00
1	C	3282	PRO	N-CA-CB	6.75	110.68	103.52
1	A	2160	GLY	N-CA-C	-6.75	104.63	112.73
1	G	2160	GLY	N-CA-C	-6.74	104.64	112.73
1	C	2160	GLY	N-CA-C	-6.73	104.65	112.73
1	E	3282	PRO	N-CA-CB	6.71	110.63	103.52
1	A	3282	PRO	N-CA-CB	6.71	110.63	103.52
1	G	3138	PRO	N-CA-CB	6.70	110.62	103.52
1	G	3351	PRO	N-CA-CB	6.69	110.61	103.52
1	G	3188	PRO	N-CA-CB	6.67	110.58	103.52
1	C	3021	PRO	N-CA-CB	6.65	110.57	103.52
1	E	3208	PRO	N-CA-CB	6.65	110.57	103.52
1	G	3410	PRO	N-CA-CB	6.65	110.57	103.52
1	C	3208	PRO	N-CA-CB	6.64	110.56	103.52
1	A	3208	PRO	N-CA-CB	6.64	110.56	103.52
1	E	3021	PRO	N-CA-CB	6.63	110.55	103.52
1	A	3021	PRO	N-CA-CB	6.59	110.50	103.52
1	G	1251	GLU	N-CA-C	6.54	124.73	110.80
1	C	2567	PRO	N-CA-CB	6.51	110.16	103.00
1	A	1251	GLU	N-CA-C	6.50	124.65	110.80
1	G	3567	PRO	N-CA-CB	6.50	110.42	103.52
1	E	4894	GLY	N-CA-C	-6.49	107.35	115.08
1	E	1251	GLU	N-CA-C	6.48	124.59	110.80
1	A	2567	PRO	N-CA-CB	6.47	110.12	103.00
1	G	3519	PRO	N-CA-CB	6.46	110.68	103.44
1	E	2567	PRO	N-CA-CB	6.46	110.11	103.00
1	C	1251	GLU	N-CA-C	6.45	124.55	110.80
1	G	3085	PRO	N-CA-CB	6.45	110.35	103.52
1	A	3519	PRO	N-CA-CB	6.42	110.63	103.44
1	C	3519	PRO	N-CA-CB	6.42	110.63	103.44
1	G	2567	PRO	N-CA-CB	6.41	110.05	103.00
1	A	3085	PRO	N-CA-CB	6.39	110.30	103.52
1	E	3519	PRO	N-CA-CB	6.39	110.59	103.44
1	E	3085	PRO	N-CA-CB	6.38	110.28	103.52
1	G	1561	VAL	N-CA-C	6.37	119.01	111.05
1	A	1561	VAL	N-CA-C	6.36	119.00	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	3085	PRO	N-CA-CB	6.34	110.24	103.52
1	C	1561	VAL	N-CA-C	6.34	118.97	111.05
1	E	1561	VAL	N-CA-C	6.33	118.97	111.05
1	C	4986	ALA	N-CA-C	6.26	118.10	111.28
1	G	3427	PRO	N-CA-CB	6.24	109.86	103.00
1	E	2616	PRO	N-CA-CB	6.23	110.12	103.39
1	E	4983	HIS	N-CA-C	6.19	118.83	111.71
1	E	4986	ALA	N-CA-C	6.19	118.03	111.28
1	C	2712	PRO	N-CA-CB	6.19	109.81	103.00
1	G	2616	PRO	N-CA-CB	6.19	110.07	103.39
1	E	2712	PRO	N-CA-CB	6.18	109.80	103.00
1	G	3208	PRO	N-CA-CB	6.18	110.07	103.52
1	G	2712	PRO	N-CA-CB	6.17	109.79	103.00
1	C	2616	PRO	N-CA-CB	6.16	110.04	103.39
1	A	2712	PRO	N-CA-CB	6.15	109.77	103.00
1	A	2616	PRO	N-CA-CB	6.15	110.03	103.39
1	A	4983	HIS	N-CA-C	6.14	118.77	111.71
1	C	4894	GLY	N-CA-C	-6.10	107.82	115.08
1	A	2859	PRO	CA-C-N	6.04	126.00	119.78
1	A	2859	PRO	C-N-CA	6.04	126.00	119.78
1	C	1799	SER	CA-C-N	6.03	125.99	119.78
1	C	1799	SER	C-N-CA	6.03	125.99	119.78
1	C	4983	HIS	N-CA-C	6.02	118.63	111.71
1	A	4559	PHE	N-CA-C	6.01	118.63	111.71
1	E	1799	SER	CA-C-N	6.01	125.97	119.78
1	E	1799	SER	C-N-CA	6.01	125.97	119.78
1	G	384	MET	N-CA-C	6.00	118.61	111.71
1	C	2859	PRO	CA-C-N	6.00	125.96	119.78
1	C	2859	PRO	C-N-CA	6.00	125.96	119.78
1	E	4559	PHE	N-CA-C	6.00	118.61	111.71
1	G	2859	PRO	CA-C-N	6.00	125.96	119.78
1	G	2859	PRO	C-N-CA	6.00	125.96	119.78
1	C	384	MET	N-CA-C	6.00	118.60	111.71
1	A	1736	VAL	CA-C-N	5.97	125.93	119.78
1	A	1736	VAL	C-N-CA	5.97	125.93	119.78
1	E	1736	VAL	CA-C-N	5.97	125.93	119.78
1	E	1736	VAL	C-N-CA	5.97	125.93	119.78
1	C	4559	PHE	N-CA-C	5.97	118.57	111.71
1	E	384	MET	N-CA-C	5.96	118.56	111.71
1	A	1799	SER	CA-C-N	5.96	125.92	119.78
1	A	1799	SER	C-N-CA	5.96	125.92	119.78
1	C	2658	PRO	N-CA-CB	5.95	109.82	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	VAL	CA-C-N	5.94	124.00	119.66
1	A	58	VAL	C-N-CA	5.94	124.00	119.66
1	G	2658	PRO	N-CA-CB	5.92	109.79	103.52
1	C	1608	MET	CA-C-N	-5.90	113.89	119.85
1	C	1608	MET	C-N-CA	-5.90	113.89	119.85
1	G	1799	SER	CA-C-N	5.90	125.86	119.78
1	G	1799	SER	C-N-CA	5.90	125.86	119.78
1	A	1608	MET	CA-C-N	-5.90	113.89	119.85
1	A	1608	MET	C-N-CA	-5.90	113.89	119.85
1	C	58	VAL	CA-C-N	5.89	123.96	119.66
1	C	58	VAL	C-N-CA	5.89	123.96	119.66
1	G	1608	MET	CA-C-N	-5.89	113.90	119.85
1	G	1608	MET	C-N-CA	-5.89	113.90	119.85
1	E	32	GLN	N-CA-CB	5.89	120.55	110.77
1	C	2631	PRO	N-CA-CB	5.88	110.03	103.44
1	A	3427	PRO	N-CA-CB	5.88	109.47	103.00
1	A	32	GLN	N-CA-CB	5.87	120.52	110.77
1	A	2658	PRO	N-CA-CB	5.87	109.74	103.52
1	E	1226	PHE	N-CA-CB	-5.87	101.26	110.06
1	G	1226	PHE	N-CA-CB	-5.87	101.26	110.06
1	E	2658	PRO	N-CA-CB	5.86	109.73	103.52
1	A	384	MET	N-CA-C	5.86	118.44	111.71
1	C	3427	PRO	N-CA-CB	5.86	109.44	103.00
1	C	1736	VAL	CA-C-N	5.85	125.81	119.78
1	C	1736	VAL	C-N-CA	5.85	125.81	119.78
1	E	1608	MET	CA-C-N	-5.85	113.94	119.85
1	E	1608	MET	C-N-CA	-5.85	113.94	119.85
1	E	3427	PRO	N-CA-CB	5.85	109.43	103.00
1	G	3829	PHE	N-CA-C	-5.85	106.31	113.50
1	C	32	GLN	N-CA-CB	5.84	120.47	110.77
1	C	1226	PHE	N-CA-CB	-5.84	101.30	110.06
1	A	2631	PRO	N-CA-CB	5.83	109.97	103.44
1	G	32	GLN	N-CA-CB	5.83	120.44	110.77
1	E	2631	PRO	N-CA-CB	5.82	109.96	103.44
1	E	2859	PRO	CA-C-N	5.82	125.77	119.78
1	E	2859	PRO	C-N-CA	5.82	125.77	119.78
1	G	2254	LEU	N-CA-C	5.81	117.61	111.28
1	A	1226	PHE	N-CA-CB	-5.81	101.35	110.06
1	G	2631	PRO	N-CA-CB	5.81	109.95	103.44
1	G	205	ILE	N-CA-C	-5.75	106.61	111.56
1	E	804	PRO	CA-C-N	5.74	126.29	120.38
1	E	804	PRO	C-N-CA	5.74	126.29	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	804	PRO	N-CA-C	5.73	115.97	110.47
1	E	804	PRO	N-CA-C	5.73	115.97	110.47
1	G	58	VAL	CA-C-N	5.72	123.83	119.66
1	G	58	VAL	C-N-CA	5.72	123.83	119.66
1	A	804	PRO	CA-C-N	5.70	126.25	120.38
1	A	804	PRO	C-N-CA	5.70	126.25	120.38
1	G	4806	ASN	N-CA-C	5.70	118.26	111.71
1	G	4713	SER	N-CA-C	5.68	117.47	111.28
1	C	205	ILE	N-CA-C	-5.67	106.68	111.56
1	A	2788	HIS	CA-C-N	5.67	125.52	119.28
1	A	2788	HIS	C-N-CA	5.67	125.52	119.28
1	E	58	VAL	CA-C-N	5.65	123.79	119.66
1	E	58	VAL	C-N-CA	5.65	123.79	119.66
1	A	2254	LEU	N-CA-C	5.65	117.44	111.28
1	E	205	ILE	N-CA-C	-5.64	106.71	111.56
1	G	804	PRO	CA-C-N	5.63	126.18	120.38
1	G	804	PRO	C-N-CA	5.63	126.18	120.38
1	G	2788	HIS	CA-C-N	5.63	125.47	119.28
1	G	2788	HIS	C-N-CA	5.63	125.47	119.28
1	C	804	PRO	CA-C-N	5.62	126.17	120.38
1	C	804	PRO	C-N-CA	5.62	126.17	120.38
1	E	2788	HIS	CA-C-N	5.62	125.46	119.28
1	E	2788	HIS	C-N-CA	5.62	125.46	119.28
1	C	2788	HIS	CA-C-N	5.62	125.46	119.28
1	C	2788	HIS	C-N-CA	5.62	125.46	119.28
1	G	804	PRO	N-CA-C	5.61	115.86	110.47
1	A	4894	GLY	N-CA-C	-5.61	108.40	115.08
1	G	4559	PHE	N-CA-C	5.61	118.16	111.71
1	C	3961	VAL	CB-CA-C	-5.59	104.90	111.94
1	A	205	ILE	N-CA-C	-5.58	106.77	111.56
1	E	550	LYS	N-CA-C	-5.57	106.44	113.18
1	G	4894	GLY	N-CA-C	-5.57	108.34	115.42
1	E	3961	VAL	CB-CA-C	-5.57	104.92	111.94
1	E	2254	LEU	N-CA-C	5.57	117.35	111.28
1	A	4986	ALA	N-CA-C	5.56	118.10	111.71
1	C	550	LYS	N-CA-C	-5.55	106.46	113.18
1	A	3828	PHE	N-CA-C	5.54	117.31	111.28
1	A	1705	GLY	N-CA-C	5.53	123.63	112.34
1	A	3961	VAL	CB-CA-C	-5.51	105.00	111.94
1	G	1736	VAL	CA-C-N	5.49	125.44	119.78
1	G	1736	VAL	C-N-CA	5.49	125.44	119.78
1	E	3828	PHE	N-CA-C	5.46	117.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	859	VAL	N-CA-C	5.45	117.86	111.05
1	G	4931	ILE	CB-CA-C	-5.45	104.71	112.22
1	C	1705	GLY	N-CA-C	5.44	123.45	112.34
1	G	1705	GLY	N-CA-C	5.41	123.39	112.34
1	E	4236	SER	N-CA-C	-5.41	105.28	111.07
1	A	550	LYS	N-CA-C	-5.40	106.64	113.18
1	A	859	VAL	N-CA-C	5.40	117.80	111.05
1	C	803	LEU	CA-C-N	5.40	125.94	120.38
1	C	803	LEU	C-N-CA	5.40	125.94	120.38
1	G	4563	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	C	3828	PHE	N-CA-C	5.37	117.13	111.28
1	G	1931	LEU	CA-C-N	5.36	125.27	119.85
1	G	1931	LEU	C-N-CA	5.36	125.27	119.85
1	C	1931	LEU	CA-C-N	5.36	125.26	119.85
1	C	1931	LEU	C-N-CA	5.36	125.26	119.85
1	E	1931	LEU	CA-C-N	5.36	125.27	119.85
1	E	1931	LEU	C-N-CA	5.36	125.27	119.85
1	G	4983	HIS	N-CA-C	5.36	117.87	111.71
1	A	1931	LEU	CA-C-N	5.35	125.26	119.85
1	A	1931	LEU	C-N-CA	5.35	125.26	119.85
1	G	550	LYS	N-CA-C	-5.35	106.71	113.18
1	C	4180	ARG	N-CA-C	5.34	117.38	108.99
1	A	4236	SER	N-CA-C	-5.34	105.36	111.07
1	G	319	SER	N-CA-C	5.32	117.15	109.07
1	A	3811	GLU	CA-CB-CG	5.30	124.71	114.10
1	C	4236	SER	N-CA-C	-5.30	105.40	111.07
1	C	859	VAL	N-CA-C	5.30	117.67	111.05
1	E	4629	TYR	N-CA-CB	5.29	117.79	110.17
1	G	859	VAL	N-CA-C	5.29	117.67	111.05
1	E	936	GLY	N-CA-C	-5.29	108.32	115.36
1	C	4629	TYR	N-CA-CB	5.29	117.78	110.17
1	E	1589	PRO	N-CA-C	5.29	123.36	112.47
1	C	5019	TRP	CB-CA-C	-5.28	103.08	111.48
1	E	1705	GLY	N-CA-C	5.28	123.12	112.34
1	A	1589	PRO	N-CA-C	5.25	123.30	112.47
1	G	936	GLY	N-CA-C	-5.25	108.38	115.36
1	A	4180	ARG	N-CA-C	5.25	117.23	108.99
1	A	936	GLY	N-CA-C	-5.24	108.39	115.36
1	A	319	SER	N-CA-C	5.24	117.03	109.07
1	C	319	SER	N-CA-C	5.24	117.03	109.07
1	G	1589	PRO	N-CA-C	5.24	123.26	112.47
1	A	5019	TRP	CB-CA-C	-5.23	103.16	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	936	GLY	N-CA-C	-5.23	108.40	115.36
1	G	4629	TYR	N-CA-CB	5.23	117.70	110.17
1	G	4666	VAL	CA-C-N	-5.23	113.53	119.28
1	G	4666	VAL	C-N-CA	-5.23	113.53	119.28
1	G	4181	ILE	N-CA-C	5.22	115.19	108.82
1	C	1589	PRO	N-CA-C	5.22	123.22	112.47
1	G	1675	ALA	N-CA-C	5.21	120.81	113.56
1	E	319	SER	N-CA-C	5.21	116.99	109.07
1	A	4181	ILE	N-CA-C	5.20	114.87	108.53
1	G	4935	LEU	N-CA-C	-5.19	106.21	112.54
1	A	1495	VAL	N-CA-C	5.18	115.03	107.88
1	E	1495	VAL	N-CA-C	5.18	115.02	107.88
1	G	4666	VAL	O-C-N	5.18	123.73	120.42
1	C	1495	VAL	N-CA-C	5.17	115.02	107.88
1	E	4180	ARG	N-CA-C	5.17	117.11	108.99
1	G	4986	ALA	N-CA-C	5.17	116.92	111.28
1	G	1495	VAL	N-CA-C	5.16	115.00	107.88
1	G	1226	PHE	CA-C-O	5.16	126.20	120.63
1	C	2229	VAL	CB-CA-C	-5.15	105.29	112.04
1	E	5019	TRP	CB-CA-C	-5.14	103.31	111.48
1	A	4629	TYR	N-CA-CB	5.14	117.57	110.17
1	E	3811	GLU	CA-CB-CG	5.13	124.37	114.10
1	E	1280	GLN	N-CA-C	5.13	116.87	111.28
1	A	2359	ARG	CB-CG-CD	5.12	123.08	111.30
1	G	1280	GLN	N-CA-C	5.12	116.86	111.28
1	G	3962	PHE	N-CA-C	-5.11	105.89	111.82
1	E	1675	ALA	N-CA-C	5.11	120.66	113.56
1	C	1675	ALA	N-CA-C	5.10	120.65	113.56
1	A	4666	VAL	O-C-N	5.10	123.68	120.42
1	E	1226	PHE	CA-C-O	5.10	126.14	120.63
1	E	3829	PHE	N-CA-C	-5.10	106.91	113.23
1	E	1770	SER	CB-CA-C	-5.09	109.73	115.79
1	A	1280	GLN	N-CA-C	5.08	116.82	111.28
1	A	1770	SER	CB-CA-C	-5.08	109.75	115.79
1	G	4181	ILE	N-CA-CB	-5.08	106.76	112.45
1	G	524	GLU	N-CA-C	-5.08	105.75	111.28
1	A	1829	PRO	N-CA-C	5.07	122.92	112.47
1	C	1280	GLN	N-CA-C	5.07	116.81	111.28
1	C	2254	LEU	N-CA-C	5.07	117.54	111.71
1	C	4181	ILE	N-CA-C	5.07	114.71	108.53
1	E	4181	ILE	N-CA-C	5.07	114.71	108.53
1	G	3961	VAL	CB-CA-C	-5.07	105.45	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	524	GLU	N-CA-C	-5.07	105.76	111.28
1	A	3829	PHE	N-CA-C	-5.06	106.95	113.23
1	E	2359	ARG	CB-CG-CD	5.06	122.93	111.30
1	E	4666	VAL	O-C-N	5.06	123.66	120.42
1	G	2359	ARG	CB-CG-CD	5.06	122.93	111.30
1	C	3829	PHE	N-CA-C	-5.05	106.96	113.23
1	C	721	LEU	N-CA-C	5.05	116.86	109.24
1	E	1556	PRO	N-CA-C	5.04	119.00	111.14
1	A	524	GLU	N-CA-C	-5.04	105.79	111.28
1	C	524	GLU	N-CA-C	-5.04	105.79	111.28
1	G	1829	PRO	N-CA-C	5.04	122.85	112.47
1	A	1226	PHE	CA-C-O	5.04	126.07	120.63
1	C	1226	PHE	CA-C-O	5.03	126.07	120.63
1	C	436	LEU	CA-C-N	-5.03	114.73	119.76
1	C	436	LEU	C-N-CA	-5.03	114.73	119.76
1	C	1829	PRO	N-CA-C	5.03	122.83	112.47
1	E	721	LEU	N-CA-C	5.03	116.84	109.24
1	C	1770	SER	CB-CA-C	-5.03	109.81	115.79
1	G	1770	SER	CB-CA-C	-5.03	109.81	115.79
1	C	4563	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	E	1829	PRO	N-CA-C	5.02	122.81	112.47
1	E	59	PRO	O-C-N	5.01	123.62	121.31
1	C	3811	GLU	CA-CB-CG	5.01	124.12	114.10
1	A	1556	PRO	N-CA-C	5.01	118.95	111.14
1	C	1022	VAL	CA-C-N	5.01	124.94	119.78
1	C	1022	VAL	C-N-CA	5.01	124.94	119.78
1	A	721	LEU	N-CA-C	5.00	116.80	109.24

There are no chirality outliers.

All (67) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1187	GLY	Mainchain,Peptide
1	A	1250	PRO	Mainchain,Peptide
1	A	1253	PRO	Peptide
1	A	1588	ALA	Peptide
1	A	1828	ASP	Mainchain,Peptide
1	A	1867	GLU	Peptide
1	A	31	GLU	Mainchain,Peptide
1	A	322	LYS	Peptide
1	A	3694	LYS	Peptide
1	A	841	GLY	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
1	A	857	ASP	Mainchain,Peptide
1	C	1187	GLY	Mainchain,Peptide
1	C	1250	PRO	Mainchain,Peptide
1	C	1253	PRO	Peptide
1	C	1588	ALA	Peptide
1	C	1828	ASP	Mainchain,Peptide
1	C	1867	GLU	Peptide
1	C	31	GLU	Mainchain,Peptide
1	C	322	LYS	Peptide
1	C	3694	LYS	Peptide
1	C	841	GLY	Mainchain,Peptide
1	C	857	ASP	Mainchain,Peptide
1	E	1187	GLY	Mainchain,Peptide
1	E	1250	PRO	Mainchain,Peptide
1	E	1253	PRO	Peptide
1	E	1588	ALA	Peptide
1	E	1828	ASP	Mainchain,Peptide
1	E	1867	GLU	Peptide
1	E	31	GLU	Mainchain,Peptide
1	E	322	LYS	Peptide
1	E	3694	LYS	Peptide
1	E	841	GLY	Mainchain,Peptide
1	E	857	ASP	Mainchain,Peptide
1	G	1187	GLY	Mainchain,Peptide
1	G	1250	PRO	Mainchain,Peptide
1	G	1253	PRO	Peptide
1	G	1588	ALA	Peptide
1	G	1828	ASP	Mainchain,Peptide
1	G	1867	GLU	Peptide
1	G	31	GLU	Mainchain,Peptide
1	G	322	LYS	Peptide
1	G	841	GLY	Mainchain,Peptide
1	G	857	ASP	Mainchain,Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	26926	0	24467	1033	0
1	C	26926	0	24467	1049	0
1	E	26926	0	24467	1036	0
1	G	26926	0	24467	986	0
2	B	832	0	831	41	0
2	D	832	0	831	41	0
2	F	832	0	831	41	0
2	H	832	0	831	39	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
3	E	1	0	0	0	0
3	G	1	0	0	0	0
All	All	111036	0	101192	4067	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 19.

All (4067) 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:G:1808:ARG:NH1	1:G:1858:ASP:OD2	1.79	1.16
1:E:1808:ARG:NH1	1:E:1858:ASP:OD2	1.79	1.16
1:C:1808:ARG:NH1	1:C:1858:ASP:OD2	1.79	1.15
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	1.79	1.14
1:A:1243:PRO:HD2	1:A:1458:HIS:HB3	1.20	1.10
1:G:1243:PRO:HD2	1:G:1458:HIS:CB	1.83	1.06
1:G:1243:PRO:CD	1:G:1458:HIS:HB3	1.85	1.05
1:C:1243:PRO:HD2	1:C:1458:HIS:HB3	1.10	1.04
1:E:4027:LEU:HD22	1:E:4044:MET:HE1	1.41	1.02
1:C:4027:LEU:HD22	1:C:4044:MET:HE1	1.41	1.02
1:A:4027:LEU:HD22	1:A:4044:MET:HE1	1.41	1.00
1:A:683:ARG:NH1	1:A:705:ASN:O	1.97	0.97
1:C:1243:PRO:HD2	1:C:1458:HIS:CB	1.94	0.97
1:E:683:ARG:NH1	1:E:705:ASN:O	1.98	0.97
1:C:683:ARG:NH1	1:C:705:ASN:O	1.98	0.96
1:G:683:ARG:NH1	1:G:705:ASN:O	1.98	0.96
1:G:1243:PRO:HD2	1:G:1458:HIS:HB3	0.98	0.95
1:C:1243:PRO:CD	1:C:1458:HIS:HB3	1.96	0.95
1:E:1699:GLU:OE2	1:E:1810:LYS:NZ	2.01	0.94
1:C:1699:GLU:OE2	1:C:1810:LYS:NZ	2.01	0.93
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.50	0.93
1:A:3969:ILE:HD11	1:A:3980:LEU:HD13	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4027:LEU:HD22	1:G:4044:MET:HE1	1.49	0.92
1:G:1699:GLU:OE2	1:G:1810:LYS:NZ	2.01	0.92
1:A:1699:GLU:OE2	1:A:1810:LYS:NZ	2.01	0.92
1:C:3969:ILE:HD11	1:C:3980:LEU:HD13	1.52	0.90
1:E:3969:ILE:HD11	1:E:3980:LEU:HD13	1.51	0.89
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.56	0.88
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.56	0.88
1:E:4836:GLN:HB3	1:G:4826:ILE:HD11	1.56	0.87
1:A:1243:PRO:HD2	1:A:1458:HIS:CB	2.04	0.87
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.56	0.86
1:E:737:LEU:HD11	2:F:7:ILE:HG22	1.58	0.85
1:C:737:LEU:HD11	2:D:7:ILE:HG22	1.58	0.85
1:G:674:PHE:HB3	2:H:40:ARG:NH1	1.92	0.85
1:A:737:LEU:HD11	2:B:7:ILE:HG22	1.58	0.85
1:E:1243:PRO:HD2	1:E:1458:HIS:HB3	1.59	0.85
1:A:830:ARG:NH1	1:A:1616:GLU:OE2	2.10	0.85
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.58	0.85
1:G:403:MET:HE2	1:G:448:LEU:HD23	1.60	0.84
1:A:4937:ILE:HD11	1:G:4934:GLY:CA	2.07	0.84
1:G:737:LEU:HD11	2:H:7:ILE:HG22	1.60	0.84
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.58	0.84
1:E:4839:MET:HG3	1:G:4822:THR:HG21	1.60	0.84
1:E:25:SER:OG	1:E:34:LYS:NZ	2.11	0.83
1:E:403:MET:HE2	1:E:448:LEU:HD23	1.60	0.83
1:C:25:SER:OG	1:C:34:LYS:NZ	2.11	0.83
1:A:1243:PRO:CD	1:A:1458:HIS:HB3	2.05	0.83
1:E:830:ARG:NH1	1:E:1616:GLU:OE2	2.09	0.83
1:G:4983:HIS:HD1	1:G:4988:TYR:HH	1.23	0.83
1:C:830:ARG:NH1	1:C:1616:GLU:OE2	2.10	0.83
1:G:830:ARG:NH1	1:G:1616:GLU:OE2	2.10	0.83
1:A:1024:TYR:O	1:A:1032:LYS:NZ	2.12	0.83
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.58	0.83
1:C:403:MET:HE2	1:C:448:LEU:HD23	1.60	0.83
1:G:25:SER:OG	1:G:34:LYS:NZ	2.11	0.83
1:A:2358:ILE:HG23	1:G:195:PHE:CE1	2.14	0.82
1:A:25:SER:OG	1:A:34:LYS:NZ	2.11	0.82
1:A:403:MET:HE2	1:A:448:LEU:HD23	1.59	0.82
1:C:1092:PHE:HB3	1:C:1149:VAL:HB	1.60	0.82
1:E:195:PHE:CE1	1:G:2358:ILE:HG23	2.14	0.82
1:G:1024:TYR:O	1:G:1032:LYS:NZ	2.12	0.82
1:G:1092:PHE:HB3	1:G:1149:VAL:HB	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1024:TYR:O	1:E:1032:LYS:NZ	2.12	0.82
1:C:1024:TYR:O	1:C:1032:LYS:NZ	2.12	0.82
1:E:1092:PHE:HB3	1:E:1149:VAL:HB	1.60	0.82
1:C:195:PHE:CE1	1:E:2358:ILE:HG23	2.14	0.81
1:A:195:PHE:CE1	1:C:2358:ILE:HG23	2.14	0.81
1:C:674:PHE:HB3	2:D:40:ARG:NH1	1.94	0.81
1:E:76:ARG:NH1	1:G:3936:TYR:HA	1.96	0.81
1:E:674:PHE:HB3	2:F:40:ARG:NH1	1.94	0.81
1:A:674:PHE:HB3	2:B:40:ARG:NH1	1.95	0.81
1:A:1092:PHE:HB3	1:A:1149:VAL:HB	1.60	0.81
1:C:4056:GLU:HG3	1:C:4166:LEU:HD21	1.63	0.81
1:A:4056:GLU:HG3	1:A:4166:LEU:HD21	1.63	0.80
1:A:2358:ILE:HG23	1:G:195:PHE:CD1	2.17	0.80
1:A:4934:GLY:HA3	1:C:4937:ILE:CD1	2.12	0.80
1:G:1780:PRO:HG2	2:H:42:ARG:HE	1.47	0.80
1:E:4056:GLU:HG3	1:E:4166:LEU:HD21	1.63	0.80
1:A:76:ARG:NH1	1:C:3936:TYR:HA	1.97	0.80
2:B:14:THR:HG22	2:B:106:LEU:HD12	1.64	0.80
1:C:195:PHE:CD1	1:E:2358:ILE:HG23	2.17	0.80
1:G:4205:TRP:CD1	1:G:4989:MET:HE1	2.17	0.80
1:A:3936:TYR:HA	1:G:76:ARG:NH1	1.97	0.80
1:A:195:PHE:CD1	1:C:2358:ILE:HG23	2.16	0.80
1:A:1780:PRO:HG2	2:B:42:ARG:HE	1.47	0.79
1:E:4205:TRP:CD1	1:E:4989:MET:HE1	2.18	0.79
1:A:4205:TRP:CD1	1:A:4989:MET:HE1	2.17	0.79
1:C:706:GLY:H	1:C:711:LEU:HD13	1.47	0.79
2:F:14:THR:HG22	2:F:106:LEU:HD12	1.64	0.79
1:G:103:TYR:OH	1:G:167:ASP:OD2	2.00	0.79
1:C:76:ARG:NH1	1:E:3936:TYR:HA	1.98	0.79
1:C:4205:TRP:CD1	1:C:4989:MET:HE1	2.18	0.79
1:E:4843:LEU:HD11	1:G:4827:LEU:HD11	1.65	0.79
1:G:2893:GLU:OE2	1:G:2897:LYS:NZ	2.15	0.79
1:A:706:GLY:H	1:A:711:LEU:HD13	1.47	0.79
1:E:103:TYR:OH	1:E:167:ASP:OD2	2.01	0.79
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.00	0.78
1:E:195:PHE:CD1	1:G:2358:ILE:HG23	2.17	0.78
2:D:14:THR:HG22	2:D:106:LEU:HD12	1.64	0.78
1:E:2128:TYR:OH	1:E:3676:ASP:OD2	2.00	0.78
1:C:1780:PRO:HG2	2:D:42:ARG:HE	1.47	0.78
1:E:706:GLY:H	1:E:711:LEU:HD13	1.48	0.78
1:E:3903:LEU:HD22	1:E:3915:ILE:HD12	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.63	0.78
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.00	0.77
1:G:1781:CYS:HG	2:H:46:PHE:HE1	1.30	0.77
1:A:3903:LEU:HD22	1:A:3915:ILE:HD12	1.66	0.77
1:G:706:GLY:H	1:G:711:LEU:HD13	1.48	0.77
1:C:1245:PHE:HB2	1:C:1602:PRO:HB2	1.67	0.77
1:G:465:GLN:HE21	1:G:3711:THR:HA	1.50	0.77
1:G:3903:LEU:HD22	1:G:3915:ILE:HD12	1.67	0.77
1:A:1245:PHE:HB2	1:A:1602:PRO:HB2	1.67	0.76
1:C:2128:TYR:OH	1:C:3676:ASP:OD2	2.02	0.76
1:E:1780:PRO:HG2	2:F:42:ARG:HE	1.47	0.76
1:E:1245:PHE:HB2	1:E:1602:PRO:HB2	1.67	0.76
1:E:4849:TYR:OH	1:G:4574:ASN:HB3	1.86	0.76
1:G:1245:PHE:HB2	1:G:1602:PRO:HB2	1.68	0.76
1:C:3903:LEU:HD22	1:C:3915:ILE:HD12	1.66	0.75
1:G:3969:ILE:HD11	1:G:3980:LEU:HD13	1.68	0.75
1:C:4934:GLY:HA2	1:E:4937:ILE:HD12	1.67	0.75
1:C:3948:LYS:HG3	1:C:4012:LEU:HD22	1.69	0.75
1:A:2128:TYR:OH	1:A:3676:ASP:OD2	2.04	0.75
1:C:3958:ALA:HB3	1:C:4019:LEU:HD11	1.68	0.75
1:A:3948:LYS:HG3	1:A:4012:LEU:HD22	1.69	0.75
1:E:45:ARG:HG2	1:E:443:LEU:HD21	1.69	0.75
1:E:1115:LEU:HD12	1:E:1193:SER:HB2	1.69	0.75
1:A:3885:PHE:HE1	1:A:3919:THR:HG23	1.52	0.74
1:A:4839:MET:HG3	1:C:4822:THR:HG21	1.67	0.74
1:A:667:MET:SD	1:A:801:LYS:NZ	2.60	0.74
1:G:45:ARG:HG2	1:G:443:LEU:HD21	1.69	0.74
1:G:667:MET:SD	1:G:801:LYS:NZ	2.61	0.74
1:A:3958:ALA:HB3	1:A:4019:LEU:HD11	1.68	0.74
1:E:3948:LYS:HG3	1:E:4012:LEU:HD22	1.69	0.74
1:E:3958:ALA:HB3	1:E:4019:LEU:HD11	1.68	0.74
1:C:1115:LEU:HD12	1:C:1193:SER:HB2	1.69	0.74
1:C:3885:PHE:HE1	1:C:3919:THR:HG23	1.52	0.74
1:G:1115:LEU:HD12	1:G:1193:SER:HB2	1.69	0.74
1:A:1115:LEU:HD12	1:A:1193:SER:HB2	1.69	0.73
1:C:667:MET:SD	1:C:801:LYS:NZ	2.61	0.73
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.21	0.73
1:C:4839:MET:HG3	1:E:4822:THR:HG21	1.68	0.73
1:A:3996:PHE:HZ	1:A:4019:LEU:HD22	1.54	0.73
1:A:4934:GLY:HA2	1:C:4937:ILE:HD12	1.68	0.73
1:E:54:ASN:HB3	1:E:57:ASN:HB2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1708:ARG:NH1	1:G:1836:PHE:O	2.21	0.73
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.21	0.73
1:E:3996:PHE:HZ	1:E:4019:LEU:HD22	1.53	0.73
1:E:4138:ASP:O	1:E:4142:ASN:ND2	2.21	0.73
1:A:3936:TYR:HD1	1:G:76:ARG:HH22	1.37	0.73
1:C:3996:PHE:HZ	1:C:4019:LEU:HD22	1.53	0.73
1:A:4861:LYS:HZ1	1:A:4909:TYR:HD2	1.35	0.73
1:C:1927:LEU:HD11	1:C:2101:MET:HG2	1.71	0.73
1:G:3839:CYS:SG	1:G:3840:SER:N	2.60	0.73
2:H:14:THR:HG22	2:H:106:LEU:HD12	1.70	0.73
1:A:1927:LEU:HD11	1:A:2101:MET:HG2	1.71	0.73
1:A:54:ASN:HB3	1:A:57:ASN:HB2	1.70	0.73
1:G:172:VAL:HG22	1:G:179:TYR:HD1	1.54	0.73
1:A:45:ARG:HG2	1:A:443:LEU:HD21	1.69	0.72
1:C:45:ARG:HG2	1:C:443:LEU:HD21	1.69	0.72
1:E:76:ARG:HH22	1:G:3936:TYR:HD1	1.36	0.72
1:E:1723:ALA:HB1	1:E:1775:HIS:HD2	1.54	0.72
1:A:4934:GLY:CA	1:C:4937:ILE:HD12	2.19	0.72
1:C:54:ASN:HB3	1:C:57:ASN:HB2	1.71	0.72
1:C:4226:GLY:HA2	1:C:4230:LYS:HD3	1.71	0.72
1:E:667:MET:SD	1:E:801:LYS:NZ	2.60	0.72
1:A:76:ARG:HH22	1:C:3936:TYR:HD1	1.37	0.72
1:C:76:ARG:HH22	1:E:3936:TYR:HD1	1.37	0.72
1:E:172:VAL:HG22	1:E:179:TYR:HD1	1.55	0.72
1:G:1927:LEU:HD11	1:G:2101:MET:HG2	1.71	0.72
1:A:4888:TYR:CE1	1:G:4917:ASP:OD2	2.43	0.72
1:G:1828:ASP:HB3	1:G:1830:VAL:H	1.55	0.72
1:E:1927:LEU:HD11	1:E:2101:MET:HG2	1.71	0.72
1:A:1723:ALA:HB1	1:A:1775:HIS:HD2	1.55	0.71
1:C:313:SER:O	1:C:350:HIS:ND1	2.23	0.71
1:C:1723:ALA:HB1	1:C:1775:HIS:HD2	1.55	0.71
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.23	0.71
1:E:1708:ARG:NH1	1:E:1836:PHE:O	2.23	0.71
1:E:2233:CYS:HG	1:E:2271:THR:N	1.87	0.71
1:E:3885:PHE:HE1	1:E:3919:THR:HG23	1.52	0.71
1:A:235:ALA:O	1:A:238:SER:OG	2.07	0.71
1:E:1715:LEU:HD22	1:E:1844:LEU:HD11	1.72	0.71
1:A:1828:ASP:HB3	1:A:1830:VAL:H	1.56	0.71
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.23	0.71
1:A:313:SER:O	1:A:350:HIS:ND1	2.23	0.71
1:E:1828:ASP:HB3	1:E:1830:VAL:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:172:VAL:HG22	1:C:179:TYR:HD1	1.55	0.71
1:C:1708:ARG:NH1	1:C:1836:PHE:O	2.23	0.71
1:E:313:SER:O	1:E:350:HIS:ND1	2.23	0.71
1:G:4658:ILE:HG22	1:G:4792:LEU:HB3	1.73	0.71
1:A:1715:LEU:HD22	1:A:1844:LEU:HD11	1.73	0.71
1:C:1715:LEU:HD22	1:C:1844:LEU:HD11	1.72	0.71
1:E:317:ARG:NH1	1:E:349:GLN:OE1	2.23	0.71
1:G:4984:ASN:O	1:G:4986:ALA:N	2.22	0.71
1:A:172:VAL:HG22	1:A:179:TYR:HD1	1.54	0.71
1:E:829:TYR:OH	1:E:1612:PHE:O	2.07	0.71
1:E:4226:GLY:HA2	1:E:4230:LYS:HD3	1.71	0.71
1:G:317:ARG:NH1	1:G:349:GLN:OE1	2.23	0.71
1:G:835:ARG:HH12	1:G:1211:LEU:HD21	1.56	0.71
1:A:3839:CYS:SG	1:A:3840:SER:N	2.63	0.70
1:C:106:ALA:HA	1:C:149:THR:HA	1.73	0.70
1:E:1716:ILE:HD11	1:E:1844:LEU:HA	1.73	0.70
1:E:2822:THR:HG1	1:E:2938:THR:HG1	1.37	0.70
1:G:1715:LEU:HD22	1:G:1844:LEU:HD11	1.72	0.70
1:A:1708:ARG:NH1	1:A:1836:PHE:O	2.24	0.70
1:A:1716:ILE:HD11	1:A:1844:LEU:HA	1.73	0.70
1:E:697:GLY:HA3	1:E:1613:LEU:HD11	1.73	0.70
1:G:54:ASN:HB3	1:G:57:ASN:HB2	1.71	0.70
1:G:4837:LEU:HD11	1:G:4932:ILE:HG23	1.72	0.70
1:E:3839:CYS:SG	1:E:3840:SER:N	2.63	0.70
1:G:1704:PRO:HG2	1:G:1707:LEU:HD12	1.73	0.70
1:A:2191:PHE:HA	1:A:2198:MET:HE3	1.72	0.70
1:E:4861:LYS:HZ1	1:E:4909:TYR:HD2	1.38	0.70
1:A:4226:GLY:HA2	1:A:4230:LYS:HD3	1.71	0.70
1:C:1828:ASP:HB3	1:C:1830:VAL:H	1.56	0.70
1:C:4555:LEU:HD11	1:C:4656:LEU:HB2	1.73	0.70
1:A:4555:LEU:HD11	1:A:4656:LEU:HB2	1.73	0.70
1:G:2191:PHE:HA	1:G:2198:MET:HE3	1.73	0.70
1:C:3901:ASN:OD1	1:C:3904:ARG:NH1	2.17	0.70
1:E:106:ALA:HA	1:E:149:THR:HA	1.72	0.70
1:G:106:ALA:HA	1:G:149:THR:HA	1.73	0.70
1:C:627:PRO:HG3	2:D:89:GLY:C	2.17	0.70
1:E:835:ARG:HH12	1:E:1211:LEU:HD21	1.57	0.70
1:G:1723:ALA:HB1	1:G:1775:HIS:HD2	1.55	0.70
1:E:1802:ILE:HD12	1:E:1807:LEU:HD13	1.74	0.69
1:E:2191:PHE:HA	1:E:2198:MET:HE3	1.73	0.69
1:E:4860:ARG:NH2	1:G:4582:VAL:HB	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:GLN:HE21	1:A:3711:THR:HA	1.57	0.69
1:C:697:GLY:HA3	1:C:1613:LEU:HD11	1.72	0.69
1:C:1716:ILE:HD11	1:C:1844:LEU:HA	1.73	0.69
1:C:835:ARG:HH12	1:C:1211:LEU:HD21	1.57	0.69
1:G:1154:ASP:HB2	1:G:1159:THR:HB	1.74	0.69
1:G:1716:ILE:HD11	1:G:1844:LEU:HA	1.74	0.69
1:A:835:ARG:HH12	1:A:1211:LEU:HD21	1.57	0.69
1:A:4937:ILE:HD11	1:G:4934:GLY:HA3	1.72	0.69
1:C:4631:PHE:HZ	1:C:4639:MET:HE2	1.58	0.69
1:E:235:ALA:O	1:E:238:SER:OG	2.07	0.69
1:A:697:GLY:HA3	1:A:1613:LEU:HD11	1.73	0.69
1:A:1154:ASP:HB2	1:A:1159:THR:HB	1.74	0.69
1:A:2233:CYS:HG	1:A:2271:THR:N	1.89	0.69
1:C:2166:LEU:HD12	1:C:2206:THR:HG23	1.74	0.69
1:E:4555:LEU:HD11	1:E:4656:LEU:HB2	1.73	0.69
1:G:235:ALA:O	1:G:238:SER:OG	2.07	0.69
1:G:313:SER:O	1:G:350:HIS:ND1	2.23	0.69
1:G:1637:MET:HG3	1:G:1650:ILE:HD12	1.74	0.69
1:C:4934:GLY:CA	1:E:4937:ILE:CD1	2.69	0.69
1:E:3835:LEU:HD11	1:E:3884:LEU:HD13	1.75	0.69
1:G:2158:CYS:SG	1:G:2184:ASN:ND2	2.63	0.69
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.75	0.69
1:C:595:ARG:NH2	1:C:631:LEU:O	2.25	0.69
1:C:2191:PHE:HA	1:C:2198:MET:HE3	1.72	0.69
1:G:697:GLY:HA3	1:G:1613:LEU:HD11	1.73	0.69
1:A:106:ALA:HA	1:A:149:THR:HA	1.73	0.69
1:A:168:ASP:OD1	1:A:201:ASN:ND2	2.25	0.69
1:A:215:THR:HG22	1:A:273:HIS:HA	1.75	0.69
1:A:1673:VAL:HG12	1:A:1681:VAL:HG11	1.75	0.69
1:A:4631:PHE:HZ	1:A:4639:MET:HE2	1.58	0.69
1:C:235:ALA:O	1:C:238:SER:OG	2.07	0.69
1:E:4708:THR:HG22	1:E:4710:SER:H	1.58	0.69
1:G:634:GLN:HB3	1:G:1640:HIS:CE1	2.28	0.69
1:G:887:ILE:HA	1:G:891:TRP:HB2	1.75	0.69
1:G:3980:LEU:HD21	1:G:3985:LEU:HD22	1.75	0.69
1:G:4682:GLU:OE2	1:G:4723:LYS:NZ	2.25	0.69
1:G:4708:THR:O	1:G:4721:LYS:NZ	2.26	0.69
1:A:627:PRO:HG3	2:B:89:GLY:C	2.18	0.69
1:A:825:PRO:HD3	1:A:1619:ARG:HH11	1.58	0.69
1:C:825:PRO:HD3	1:C:1619:ARG:HH11	1.58	0.69
1:C:829:TYR:OH	1:C:1612:PHE:O	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.75	0.69
1:E:627:PRO:HG3	2:F:89:GLY:C	2.18	0.69
1:E:1154:ASP:HB2	1:E:1159:THR:HB	1.74	0.69
1:A:143:GLY:O	1:A:145:ALA:N	2.26	0.69
1:A:634:GLN:HB3	1:A:1640:HIS:CE1	2.28	0.69
1:A:3835:LEU:HD11	1:A:3884:LEU:HD13	1.74	0.69
1:C:4861:LYS:HZ1	1:C:4909:TYR:HD2	1.39	0.69
1:E:825:PRO:HD3	1:E:1619:ARG:HH11	1.58	0.69
1:E:4631:PHE:HZ	1:E:4639:MET:HE2	1.58	0.69
1:E:4984:ASN:O	1:E:4986:ALA:N	2.26	0.69
1:G:168:ASP:OD1	1:G:201:ASN:ND2	2.25	0.69
1:G:595:ARG:NH2	1:G:631:LEU:O	2.26	0.69
1:G:825:PRO:HD3	1:G:1619:ARG:HH11	1.58	0.69
1:G:1673:VAL:HG12	1:G:1681:VAL:HG11	1.75	0.69
1:G:1802:ILE:HD12	1:G:1807:LEU:HD13	1.74	0.69
1:A:495:ASN:O	1:A:553:ARG:NH1	2.26	0.68
1:A:4991:PHE:HE2	1:A:5010:VAL:HG11	1.58	0.68
1:E:215:THR:HG22	1:E:273:HIS:HA	1.75	0.68
1:E:465:GLN:HE21	1:E:3711:THR:HA	1.57	0.68
1:G:627:PRO:HG3	2:H:89:GLY:C	2.18	0.68
1:A:3901:ASN:OD1	1:A:3904:ARG:NH1	2.16	0.68
1:A:4860:ARG:NH2	1:C:4582:VAL:HB	2.09	0.68
1:A:4934:GLY:CA	1:C:4937:ILE:CD1	2.70	0.68
1:E:887:ILE:HA	1:E:891:TRP:HB2	1.76	0.68
1:C:168:ASP:OD1	1:C:201:ASN:ND2	2.25	0.68
1:C:215:THR:HG22	1:C:273:HIS:HA	1.75	0.68
1:C:1673:VAL:HG12	1:C:1681:VAL:HG11	1.76	0.68
1:C:4983:HIS:ND1	1:C:4988:TYR:OH	2.26	0.68
1:E:595:ARG:NH2	1:E:631:LEU:O	2.26	0.68
1:E:634:GLN:HB3	1:E:1640:HIS:CE1	2.28	0.68
1:A:595:ARG:NH2	1:A:631:LEU:O	2.26	0.68
1:C:143:GLY:O	1:C:145:ALA:N	2.26	0.68
1:C:634:GLN:HB3	1:C:1640:HIS:CE1	2.28	0.68
1:G:215:THR:HG22	1:G:273:HIS:HA	1.75	0.68
1:G:2166:LEU:HD12	1:G:2206:THR:HG23	1.75	0.68
1:A:4708:THR:HG22	1:A:4710:SER:H	1.59	0.68
1:C:1802:ILE:HD12	1:C:1807:LEU:HD13	1.75	0.68
1:A:1802:ILE:HD12	1:A:1807:LEU:HD13	1.75	0.68
1:A:4937:ILE:HD11	1:G:4934:GLY:HA2	1.76	0.68
1:C:887:ILE:HA	1:C:891:TRP:HB2	1.75	0.68
1:E:3817:LEU:HD11	1:E:3821:LYS:NZ	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3934:TYR:HD1	1:G:3999:MET:HE3	1.58	0.68
1:A:829:TYR:OH	1:A:1612:PHE:O	2.07	0.68
1:A:1259:ARG:NH1	1:A:1597:VAL:HA	2.09	0.68
1:C:465:GLN:HE21	1:C:3711:THR:HA	1.57	0.68
1:E:1673:VAL:HG12	1:E:1681:VAL:HG11	1.75	0.68
1:C:495:ASN:O	1:C:553:ARG:NH1	2.27	0.68
1:E:1704:PRO:HG2	1:E:1707:LEU:HD12	1.76	0.68
1:E:2158:CYS:SG	1:E:2184:ASN:ND2	2.64	0.68
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.75	0.68
1:G:495:ASN:O	1:G:553:ARG:NH1	2.27	0.68
1:C:1154:ASP:HB2	1:C:1159:THR:HB	1.74	0.68
1:C:4934:GLY:HA3	1:E:4937:ILE:CD1	2.24	0.68
1:A:887:ILE:HA	1:A:891:TRP:HB2	1.75	0.68
1:A:2166:LEU:HD12	1:A:2206:THR:HG23	1.75	0.68
1:G:3948:LYS:HG3	1:G:4012:LEU:HD22	1.76	0.68
1:E:495:ASN:O	1:E:553:ARG:NH1	2.27	0.67
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.59	0.67
1:G:143:GLY:O	1:G:145:ALA:N	2.26	0.67
1:A:3817:LEU:HD11	1:A:3821:LYS:NZ	2.08	0.67
1:G:4991:PHE:HE2	1:G:5010:VAL:HG11	1.58	0.67
1:A:4984:ASN:O	1:A:4986:ALA:N	2.26	0.67
1:C:3817:LEU:HD11	1:C:3821:LYS:NZ	2.08	0.67
1:C:4837:LEU:HD11	1:C:4932:ILE:HG23	1.76	0.67
1:E:1259:ARG:NH1	1:E:1597:VAL:HA	2.09	0.67
1:C:3839:CYS:SG	1:C:3840:SER:N	2.63	0.67
1:C:4984:ASN:O	1:C:4986:ALA:N	2.26	0.67
1:G:4708:THR:HG22	1:G:4710:SER:H	1.60	0.67
1:A:4878:ASP:HA	1:C:4581:LYS:HB3	1.76	0.67
1:C:2233:CYS:HG	1:C:2271:THR:N	1.93	0.67
1:G:4205:TRP:HB2	1:G:4245:MET:HE1	1.77	0.67
1:E:2166:LEU:HD12	1:E:2206:THR:HG23	1.75	0.67
1:G:1259:ARG:NH1	1:G:1597:VAL:HA	2.10	0.67
1:A:320:LYS:NZ	1:A:382:GLY:O	2.27	0.67
1:C:1637:MET:HG3	1:C:1650:ILE:HD12	1.77	0.67
1:C:4991:PHE:HE2	1:C:5010:VAL:HG11	1.59	0.67
1:E:4983:HIS:ND1	1:E:4988:TYR:OH	2.26	0.67
1:G:320:LYS:NZ	1:G:382:GLY:O	2.27	0.67
1:G:1639:LEU:HD23	1:G:1650:ILE:HG12	1.77	0.67
1:E:1637:MET:HG3	1:E:1650:ILE:HD12	1.77	0.66
1:E:1639:LEU:HD23	1:E:1650:ILE:HG12	1.77	0.66
1:A:1639:LEU:HD23	1:A:1650:ILE:HG12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1704:PRO:HG2	1:A:1707:LEU:HD12	1.76	0.66
1:A:4582:VAL:HB	1:G:4860:ARG:NH2	2.10	0.66
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.60	0.66
1:A:23:GLN:HE21	1:A:34:LYS:HB3	1.61	0.66
1:A:2499:LYS:HD2	1:A:2553:TYR:HE1	1.61	0.66
1:C:1259:ARG:NH1	1:C:1597:VAL:HA	2.10	0.66
1:E:3901:ASN:OD1	1:E:3904:ARG:NH1	2.17	0.66
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.61	0.66
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.77	0.66
1:C:320:LYS:NZ	1:C:382:GLY:O	2.27	0.66
1:C:4708:THR:HG22	1:C:4710:SER:H	1.59	0.66
1:C:4860:ARG:NH2	1:E:4582:VAL:HB	2.11	0.66
1:G:743:VAL:HG21	1:G:801:LYS:HD2	1.77	0.66
1:C:23:GLN:HE21	1:C:34:LYS:HB3	1.61	0.66
1:C:2299:VAL:HG21	1:C:2356:LEU:HB3	1.78	0.66
1:C:2499:LYS:HD2	1:C:2553:TYR:HE1	1.61	0.66
1:E:168:ASP:OD1	1:E:201:ASN:ND2	2.25	0.66
1:G:829:TYR:OH	1:G:1612:PHE:O	2.07	0.66
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.61	0.66
1:E:4914:VAL:HG13	1:G:4888:TYR:HD1	1.60	0.66
1:G:4913:ARG:NH1	1:G:4917:ASP:HB2	2.09	0.66
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.77	0.66
1:G:595:ARG:HG2	1:G:1662:PHE:CZ	2.31	0.66
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.78	0.66
1:C:1704:PRO:HG2	1:C:1707:LEU:HD12	1.76	0.66
1:E:2340:PHE:HB2	1:E:2435:ARG:HD3	1.77	0.66
1:E:4878:ASP:HA	1:G:4581:LYS:HB3	1.77	0.66
1:C:4656:LEU:HA	1:C:4659:ILE:HG22	1.78	0.66
1:E:2499:LYS:HD2	1:E:2553:TYR:HE1	1.61	0.66
1:E:4843:LEU:CD1	1:G:4827:LEU:HD11	2.26	0.66
1:E:143:GLY:O	1:E:145:ALA:N	2.26	0.65
1:E:320:LYS:NZ	1:E:382:GLY:O	2.27	0.65
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.60	0.65
1:E:2299:VAL:HG21	1:E:2356:LEU:HB3	1.78	0.65
1:G:2340:PHE:HB2	1:G:2435:ARG:HD3	1.78	0.65
1:G:4856:PHE:O	1:G:4860:ARG:NE	2.28	0.65
1:A:743:VAL:HG21	1:A:801:LYS:HD2	1.77	0.65
1:C:743:VAL:HG21	1:C:801:LYS:HD2	1.77	0.65
1:C:1648:MET:SD	1:C:1656:ARG:NH2	2.69	0.65
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	1.96	0.65
1:G:2233:CYS:HG	1:G:2271:THR:N	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3958:ALA:HB3	1:G:4019:LEU:HD11	1.77	0.65
1:A:595:ARG:HG2	1:A:1662:PHE:CZ	2.31	0.65
1:A:2340:PHE:HB2	1:A:2435:ARG:HD3	1.77	0.65
1:A:4837:LEU:HD11	1:A:4932:ILE:HG23	1.77	0.65
1:E:595:ARG:HG2	1:E:1662:PHE:CZ	2.31	0.65
1:E:4656:LEU:HA	1:E:4659:ILE:HG22	1.79	0.65
1:G:3423:TRP:O	1:G:3427:PRO:N	2.29	0.65
1:G:3817:LEU:HD11	1:G:3821:LYS:NZ	2.12	0.65
1:A:2299:VAL:HG21	1:A:2356:LEU:HB3	1.78	0.65
1:G:4687:TYR:OH	1:G:4699:GLY:O	2.14	0.65
1:A:2158:CYS:SG	1:A:2184:ASN:ND2	2.64	0.65
1:A:4861:LYS:NZ	1:A:4909:TYR:HD2	1.94	0.65
1:C:1639:LEU:HD23	1:C:1650:ILE:HG12	1.77	0.65
1:C:2340:PHE:HB2	1:C:2435:ARG:HD3	1.77	0.65
1:C:3950:ASN:HA	1:C:3953:LYS:HD3	1.79	0.65
1:G:2299:VAL:HG21	1:G:2356:LEU:HB3	1.78	0.65
1:G:4983:HIS:ND1	1:G:4988:TYR:OH	2.25	0.65
1:E:4917:ASP:OD2	1:G:4892:ARG:CZ	2.45	0.65
1:A:1455:PRO:HA	1:A:1549:PHE:HE2	1.61	0.65
1:A:3893:GLU:HA	1:A:3967:GLU:OE2	1.96	0.65
1:E:743:VAL:HG21	1:E:801:LYS:HD2	1.78	0.65
1:G:1648:MET:SD	1:G:1656:ARG:NH2	2.70	0.65
1:A:1637:MET:HG3	1:A:1650:ILE:HD12	1.77	0.65
1:A:1648:MET:SD	1:A:1656:ARG:NH2	2.69	0.65
1:C:1455:PRO:HA	1:C:1549:PHE:HE2	1.60	0.65
1:A:4656:LEU:HA	1:A:4659:ILE:HG22	1.79	0.65
1:E:3950:ASN:HA	1:E:3953:LYS:HD3	1.79	0.65
1:G:728:ARG:NH2	1:G:1487:LEU:O	2.30	0.65
1:G:2499:LYS:HD2	1:G:2553:TYR:HE1	1.61	0.65
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.78	0.65
1:A:3878:ASP:OD2	1:A:3953:LYS:HB3	1.97	0.64
1:C:4878:ASP:HA	1:E:4581:LYS:HB3	1.79	0.64
1:E:475:GLN:NE2	1:E:528:SER:O	2.30	0.64
1:C:3835:LEU:HD11	1:C:3884:LEU:HD13	1.77	0.64
1:C:3893:GLU:HA	1:C:3967:GLU:OE2	1.96	0.64
1:G:736:HIS:HE2	1:G:739:ALA:HB2	1.62	0.64
1:C:728:ARG:NH2	1:C:1487:LEU:O	2.30	0.64
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.78	0.64
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.77	0.64
1:E:4861:LYS:NZ	1:E:4909:TYR:HD2	1.95	0.64
1:C:595:ARG:HG2	1:C:1662:PHE:CZ	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:539:LEU:O	1:E:543:ASN:ND2	2.31	0.64
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.78	0.64
1:G:3768:SER:HA	1:G:3771:HIS:HB3	1.79	0.64
1:G:4172:GLU:HA	1:G:4175:ARG:NH1	2.12	0.64
1:A:3950:ASN:HA	1:A:3953:LYS:HD3	1.79	0.64
1:C:539:LEU:O	1:C:543:ASN:ND2	2.29	0.64
1:C:4821:LYS:HD2	1:C:4824:ARG:HH21	1.63	0.64
1:C:4861:LYS:NZ	1:C:4909:TYR:HD2	1.95	0.64
1:E:1648:MET:SD	1:E:1656:ARG:NH2	2.70	0.64
1:G:4913:ARG:HH12	1:G:4917:ASP:HB2	1.63	0.64
1:E:728:ARG:NH2	1:E:1487:LEU:O	2.30	0.64
1:A:539:LEU:O	1:A:543:ASN:ND2	2.30	0.64
1:C:2158:CYS:SG	1:C:2184:ASN:ND2	2.63	0.64
1:E:4837:LEU:HD11	1:E:4932:ILE:HG23	1.79	0.64
1:G:23:GLN:HE21	1:G:34:LYS:HB3	1.61	0.64
1:G:2929:PHE:O	1:G:2933:ASN:ND2	2.30	0.64
1:E:23:GLN:HE21	1:E:34:LYS:HB3	1.61	0.64
1:G:1455:PRO:HA	1:G:1549:PHE:HE2	1.61	0.64
1:G:1667:LEU:HD23	1:G:1710:GLY:HA3	1.80	0.64
1:C:736:HIS:HE2	1:C:739:ALA:HB2	1.63	0.63
1:E:4934:GLY:HA2	1:G:4937:ILE:HD12	1.80	0.63
1:G:1075:PHE:HB2	1:G:1192:CYS:HB3	1.80	0.63
1:G:2625:ARG:HA	1:G:2910:THR:HG22	1.80	0.63
1:A:736:HIS:HE2	1:A:739:ALA:HB2	1.63	0.63
1:A:1667:LEU:HD23	1:A:1710:GLY:HA3	1.80	0.63
1:E:1243:PRO:HD2	1:E:1458:HIS:CB	2.25	0.63
1:G:1235:THR:HA	1:G:1612:PHE:HE1	1.63	0.63
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.78	0.63
1:A:1235:THR:HA	1:A:1612:PHE:HE1	1.63	0.63
1:A:3989:VAL:HG12	1:A:4047:MET:HE1	1.81	0.63
1:C:993:HIS:HE1	1:C:1020:ARG:HB3	1.62	0.63
1:C:1077:ALA:HB3	1:C:1189:LEU:HB3	1.80	0.63
1:G:1115:LEU:O	1:G:1132:TRP:NE1	2.31	0.63
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	1.99	0.63
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.78	0.63
1:G:669:ASP:OD2	1:G:790:ARG:HG2	1.98	0.63
1:G:3885:PHE:CE1	1:G:3919:THR:HG23	2.33	0.63
1:C:2625:ARG:HA	1:C:2910:THR:HG22	1.80	0.63
1:C:4680:LYS:HD3	1:C:4686:LEU:HD21	1.81	0.63
1:E:3878:ASP:OD2	1:E:3953:LYS:HB3	1.98	0.63
1:G:4922:PHE:HA	1:G:4926:VAL:HB	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:GLN:NE2	1:A:528:SER:O	2.30	0.63
1:A:669:ASP:OD2	1:A:790:ARG:HG2	1.98	0.63
1:A:1089:TYR:HD1	1:A:1152:MET:HG2	1.64	0.63
1:A:4691:GLN:HB2	1:A:4703:ARG:HH22	1.63	0.63
1:C:475:GLN:NE2	1:C:528:SER:O	2.31	0.63
1:C:3989:VAL:HG12	1:C:4047:MET:HE1	1.80	0.63
1:E:4242:ILE:HA	1:E:4993:MET:HE1	1.81	0.63
1:G:4868:ASP:OD1	1:G:4869:GLU:N	2.31	0.63
1:A:1075:PHE:HB2	1:A:1192:CYS:HB3	1.81	0.63
1:A:1849:LEU:HD13	1:A:1854:PHE:HD2	1.64	0.63
1:C:1667:LEU:HD23	1:C:1710:GLY:HA3	1.80	0.63
1:C:4242:ILE:HA	1:C:4993:MET:HE1	1.81	0.63
2:D:23:VAL:HG22	2:D:47:LYS:HG2	1.80	0.63
1:G:274:LEU:HD12	1:G:278:GLN:HE21	1.64	0.63
1:G:475:GLN:NE2	1:G:528:SER:O	2.31	0.63
1:G:569:ILE:HG23	1:G:570:GLU:HG2	1.81	0.63
1:A:569:ILE:HG23	1:A:570:GLU:HG2	1.81	0.63
1:C:4917:ASP:OD2	1:E:4892:ARG:CZ	2.46	0.63
1:E:736:HIS:HE2	1:E:739:ALA:HB2	1.62	0.63
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.32	0.63
1:G:168:ASP:HB3	1:G:199:LEU:HD22	1.80	0.63
1:G:1849:LEU:HD13	1:G:1854:PHE:HD2	1.64	0.63
1:A:168:ASP:HB3	1:A:199:LEU:HD22	1.81	0.63
1:A:728:ARG:NH2	1:A:1487:LEU:O	2.30	0.63
1:A:4823:LEU:HD21	1:G:4839:MET:C	2.22	0.63
1:C:4691:GLN:HB2	1:C:4703:ARG:HH22	1.63	0.63
1:E:2625:ARG:HA	1:E:2910:THR:HG22	1.80	0.63
1:E:4680:LYS:HD3	1:E:4686:LEU:HD21	1.81	0.63
1:E:4914:VAL:HG13	1:G:4888:TYR:CD1	2.34	0.63
1:A:993:HIS:HE1	1:A:1020:ARG:HB3	1.63	0.62
1:E:4868:ASP:OD1	1:E:4869:GLU:N	2.32	0.62
2:B:23:VAL:HG22	2:B:47:LYS:HG2	1.81	0.62
1:E:274:LEU:HD12	1:E:278:GLN:HE21	1.64	0.62
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.32	0.62
1:A:1077:ALA:HB3	1:A:1189:LEU:HB3	1.81	0.62
1:C:1235:THR:HA	1:C:1612:PHE:HE1	1.64	0.62
1:C:3878:ASP:OD2	1:C:3953:LYS:HB3	1.98	0.62
1:E:168:ASP:HB3	1:E:199:LEU:HD22	1.80	0.62
1:E:669:ASP:OD2	1:E:790:ARG:HG2	1.98	0.62
1:E:1235:THR:HA	1:E:1612:PHE:HE1	1.63	0.62
1:G:993:HIS:HE1	1:G:1020:ARG:HB3	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3813:GLN:OE1	1:G:3896:ASN:ND2	2.32	0.62
1:G:4861:LYS:HZ1	1:G:4909:TYR:HD2	1.45	0.62
1:A:2625:ARG:HA	1:A:2910:THR:HG22	1.80	0.62
1:A:4983:HIS:ND1	1:A:4988:TYR:OH	2.26	0.62
1:C:4934:GLY:HA2	1:E:4937:ILE:CD1	2.27	0.62
1:E:1455:PRO:HA	1:E:1549:PHE:HE2	1.62	0.62
1:G:1077:ALA:HB3	1:G:1189:LEU:HB3	1.80	0.62
1:A:4843:LEU:HD11	1:C:4827:LEU:HD11	1.82	0.62
1:C:1089:TYR:HD1	1:C:1152:MET:HG2	1.64	0.62
1:C:4239:GLU:HA	1:C:4242:ILE:HD12	1.82	0.62
1:E:993:HIS:HE1	1:E:1020:ARG:HB3	1.63	0.62
1:G:284:HIS:NE2	1:G:286:THR:OG1	2.32	0.62
1:A:4680:LYS:HD3	1:A:4686:LEU:HD21	1.81	0.62
1:A:4828:SER:HA	1:A:4831:THR:HG22	1.81	0.62
1:E:284:HIS:NE2	1:E:286:THR:OG1	2.32	0.62
1:E:1115:LEU:O	1:E:1132:TRP:NE1	2.31	0.62
1:E:1667:LEU:HD23	1:E:1710:GLY:HA3	1.81	0.62
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.32	0.62
1:C:669:ASP:OD2	1:C:790:ARG:HG2	1.99	0.62
1:C:1115:LEU:O	1:C:1132:TRP:NE1	2.31	0.62
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.82	0.62
1:E:1075:PHE:HB2	1:E:1192:CYS:HB3	1.81	0.62
1:E:4821:LYS:HD2	1:E:4824:ARG:HH21	1.62	0.62
1:G:539:LEU:O	1:G:543:ASN:ND2	2.30	0.62
1:G:4861:LYS:NZ	1:G:4909:TYR:HD2	1.98	0.62
1:A:274:LEU:HD12	1:A:278:GLN:HE21	1.63	0.62
1:A:1111:PRO:HB2	1:A:1607:ARG:HG3	1.82	0.62
1:C:172:VAL:HG22	1:C:179:TYR:CD1	2.34	0.62
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.33	0.62
1:C:4083:ASP:O	1:C:4085:ARG:N	2.33	0.62
1:E:69:LEU:HD13	1:E:101:LEU:HD11	1.82	0.62
1:G:1943:LEU:HD11	1:G:2098:VAL:HG22	1.81	0.62
1:A:1115:LEU:O	1:A:1132:TRP:NE1	2.31	0.61
1:A:4239:GLU:HA	1:A:4242:ILE:HD12	1.82	0.61
1:C:284:HIS:NE2	1:C:286:THR:OG1	2.32	0.61
1:E:1077:ALA:HB3	1:E:1189:LEU:HB3	1.80	0.61
1:E:2133:GLU:HA	1:E:2136:ARG:HE	1.65	0.61
1:G:69:LEU:HD13	1:G:101:LEU:HD11	1.82	0.61
1:A:284:HIS:NE2	1:A:286:THR:OG1	2.32	0.61
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.33	0.61
1:A:3992:PHE:O	1:A:3996:PHE:N	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:623:GLU:OE2	2:D:89:GLY:N	2.33	0.61
1:E:1089:TYR:HD1	1:E:1152:MET:HG2	1.64	0.61
1:E:3989:VAL:HG12	1:E:4047:MET:HE1	1.81	0.61
1:G:244:LEU:HD22	1:G:375:LYS:HZ1	1.64	0.61
1:G:1089:TYR:HD1	1:G:1152:MET:HG2	1.64	0.61
1:C:168:ASP:HB3	1:C:199:LEU:HD22	1.80	0.61
1:E:623:GLU:OE2	2:F:89:GLY:N	2.34	0.61
1:E:4839:MET:O	1:G:4823:LEU:HD21	2.01	0.61
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.81	0.61
1:A:2874:MET:HE1	1:A:2937:VAL:HG12	1.83	0.61
1:C:569:ILE:HG23	1:C:570:GLU:HG2	1.81	0.61
1:E:569:ILE:HG23	1:E:570:GLU:HG2	1.81	0.61
1:E:1849:LEU:HD13	1:E:1854:PHE:HD2	1.64	0.61
1:E:4083:ASP:O	1:E:4085:ARG:N	2.33	0.61
1:A:172:VAL:HG22	1:A:179:TYR:CD1	2.34	0.61
1:A:2358:ILE:CG2	1:G:195:PHE:CD1	2.83	0.61
1:A:4083:ASP:O	1:A:4085:ARG:N	2.33	0.61
1:C:1075:PHE:HB2	1:C:1192:CYS:HB3	1.81	0.61
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.39	0.61
1:A:4242:ILE:HA	1:A:4993:MET:HE1	1.81	0.61
1:C:274:LEU:HD12	1:C:278:GLN:HE21	1.64	0.61
1:C:1849:LEU:HD13	1:C:1854:PHE:HD2	1.64	0.61
1:C:4934:GLY:CA	1:E:4937:ILE:HD12	2.30	0.61
1:C:1111:PRO:HB2	1:C:1607:ARG:HG3	1.83	0.61
1:E:4691:GLN:HB2	1:E:4703:ARG:HH22	1.64	0.61
1:G:4083:ASP:O	1:G:4085:ARG:N	2.33	0.61
1:E:23:GLN:OE1	1:E:203:ASN:ND2	2.33	0.61
1:E:2248:ARG:HA	1:E:2251:PHE:HB3	1.83	0.61
1:G:4087:LEU:HG	1:G:4122:MET:HA	1.83	0.61
1:A:23:GLN:OE1	1:A:203:ASN:ND2	2.34	0.61
1:A:3767:GLN:HE22	1:A:3806:ASN:HB3	1.65	0.61
1:E:3769:ARG:O	1:E:3773:ARG:NH1	2.33	0.61
1:E:4239:GLU:HA	1:E:4242:ILE:HD12	1.82	0.61
1:A:688:LEU:HB2	1:A:775:GLY:HA3	1.83	0.61
1:A:1961:PHE:CD1	1:A:2066:LEU:HD13	2.36	0.61
1:C:69:LEU:HD13	1:C:101:LEU:HD11	1.82	0.61
1:C:195:PHE:CD1	1:E:2358:ILE:CG2	2.83	0.61
1:C:3767:GLN:HE22	1:C:3806:ASN:HB3	1.64	0.61
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.32	0.61
1:E:347:PHE:HE1	1:E:387:ALA:HB2	1.65	0.61
1:G:1111:PRO:HB2	1:G:1607:ARG:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2248:ARG:HA	1:G:2251:PHE:HB3	1.83	0.61
1:A:69:LEU:HD13	1:A:101:LEU:HD11	1.82	0.60
1:A:607:CYS:SG	1:A:1673:VAL:HA	2.41	0.60
1:C:441:VAL:O	1:C:444:SER:OG	2.16	0.60
1:E:1943:LEU:HD11	1:E:2098:VAL:HG22	1.83	0.60
1:A:2547:ALA:O	1:A:2550:LEU:HG	2.01	0.60
1:C:1961:PHE:CD1	1:C:2066:LEU:HD13	2.36	0.60
1:E:2547:ALA:O	1:E:2550:LEU:HG	2.02	0.60
1:G:172:VAL:HG22	1:G:179:TYR:CD1	2.34	0.60
1:G:347:PHE:HE1	1:G:387:ALA:HB2	1.65	0.60
1:A:4867:GLU:HB2	1:A:4872:PRO:HG2	1.84	0.60
1:E:244:LEU:HD22	1:E:375:LYS:HZ1	1.67	0.60
1:E:3767:GLN:HE22	1:E:3806:ASN:HB3	1.67	0.60
1:G:688:LEU:HB2	1:G:775:GLY:HA3	1.83	0.60
1:G:1961:PHE:CD1	1:G:2066:LEU:HD13	2.36	0.60
1:G:3878:ASP:OD2	1:G:3953:LYS:HB3	1.99	0.60
1:G:4112:LEU:HD22	1:G:4123:ILE:HD13	1.82	0.60
1:G:4867:GLU:HB2	1:G:4872:PRO:HG2	1.83	0.60
1:A:22:LEU:HD12	1:A:37:LEU:HD23	1.84	0.60
1:A:4050:GLU:OE2	1:G:162:LYS:NZ	2.31	0.60
1:A:4839:MET:C	1:C:4823:LEU:HD21	2.26	0.60
1:A:4868:ASP:OD1	1:A:4869:GLU:N	2.31	0.60
1:C:162:LYS:NZ	1:E:4050:GLU:OE2	2.31	0.60
1:C:607:CYS:SG	1:C:1673:VAL:HA	2.41	0.60
1:C:1943:LEU:HD11	1:C:2098:VAL:HG22	1.83	0.60
1:C:2547:ALA:O	1:C:2550:LEU:HG	2.02	0.60
1:C:4205:TRP:HB2	1:C:4245:MET:HE1	1.83	0.60
1:E:172:VAL:HG22	1:E:179:TYR:CD1	2.34	0.60
1:E:1961:PHE:CD1	1:E:2066:LEU:HD13	2.36	0.60
1:E:4867:GLU:HB2	1:E:4872:PRO:HG2	1.84	0.60
1:G:2547:ALA:O	1:G:2550:LEU:HG	2.02	0.60
1:A:244:LEU:HD22	1:A:375:LYS:HZ1	1.67	0.60
1:C:76:ARG:CZ	1:E:3936:TYR:HA	2.32	0.60
1:C:4828:SER:HA	1:C:4831:THR:HG22	1.83	0.60
1:E:317:ARG:HH22	1:E:322:LYS:HA	1.67	0.60
1:G:623:GLU:OE2	2:H:89:GLY:N	2.34	0.60
1:G:2450:ALA:O	1:G:2453:ILE:HG22	2.02	0.60
1:A:4856:PHE:O	1:A:4860:ARG:NE	2.33	0.60
1:C:22:LEU:HD12	1:C:37:LEU:HD23	1.84	0.60
1:C:768:PHE:HA	1:C:1474:VAL:HA	1.83	0.60
1:C:4843:LEU:HD11	1:E:4827:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1109:LEU:HA	1:G:1120:LEU:HD13	1.82	0.60
1:A:347:PHE:HE1	1:A:387:ALA:HB2	1.65	0.60
1:A:623:GLU:OE2	2:B:89:GLY:N	2.34	0.60
1:C:317:ARG:HH22	1:C:322:LYS:HA	1.67	0.60
1:C:2450:ALA:O	1:C:2453:ILE:HG22	2.02	0.60
1:C:4839:MET:C	1:E:4823:LEU:HD21	2.25	0.60
1:E:768:PHE:HA	1:E:1474:VAL:HA	1.83	0.60
1:G:23:GLN:OE1	1:G:203:ASN:ND2	2.34	0.60
1:G:607:CYS:SG	1:G:1673:VAL:HA	2.41	0.60
1:C:176:SER:HB2	1:C:178:ARG:HH21	1.67	0.60
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.83	0.60
1:C:2248:ARG:HA	1:C:2251:PHE:HB3	1.83	0.60
1:E:607:CYS:SG	1:E:1673:VAL:HA	2.41	0.60
1:E:1083:VAL:O	1:E:1188:PHE:N	2.33	0.60
1:E:4909:TYR:O	1:E:4913:ARG:N	2.33	0.60
1:A:76:ARG:CZ	1:C:3936:TYR:HA	2.31	0.60
1:A:3936:TYR:HA	1:G:76:ARG:CZ	2.31	0.60
1:A:4917:ASP:OD2	1:C:4892:ARG:CZ	2.49	0.60
1:G:2136:ARG:HH11	1:G:3720:TYR:HE2	1.48	0.60
1:G:3934:TYR:CD1	1:G:3999:MET:HE3	2.37	0.60
1:A:4205:TRP:HB2	1:A:4245:MET:HE1	1.83	0.60
1:C:347:PHE:HE1	1:C:387:ALA:HB2	1.65	0.60
1:C:4839:MET:O	1:E:4823:LEU:HD21	2.02	0.60
1:C:4868:ASP:OD1	1:C:4869:GLU:N	2.32	0.60
1:E:1111:PRO:HB2	1:E:1607:ARG:HG3	1.83	0.60
1:E:2450:ALA:O	1:E:2453:ILE:HG22	2.02	0.60
1:E:4205:TRP:HB2	1:E:4245:MET:HE1	1.83	0.60
1:G:176:SER:HB2	1:G:178:ARG:HH21	1.67	0.60
1:A:1083:VAL:O	1:A:1188:PHE:N	2.33	0.59
1:A:2248:ARG:HA	1:A:2251:PHE:HB3	1.83	0.59
1:A:4570:ALA:O	1:A:4574:ASN:ND2	2.33	0.59
1:E:22:LEU:HD12	1:E:37:LEU:HD23	1.83	0.59
1:A:1781:CYS:HG	2:B:46:PHE:HE1	1.43	0.59
1:A:3709:ALA:HB2	1:A:3782:MET:SD	2.42	0.59
1:A:4581:LYS:HB3	1:G:4878:ASP:HA	1.83	0.59
1:C:1808:ARG:HA	1:C:1848:LEU:HD21	1.84	0.59
1:G:768:PHE:HA	1:G:1474:VAL:HA	1.83	0.59
1:G:3914:ASN:ND2	1:G:3979:SER:OG	2.32	0.59
1:A:195:PHE:CD1	1:C:2358:ILE:CG2	2.84	0.59
1:A:4839:MET:O	1:C:4823:LEU:HD21	2.01	0.59
1:C:23:GLN:OE1	1:C:203:ASN:ND2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4867:GLU:HB2	1:C:4872:PRO:HG2	1.84	0.59
1:C:4871:GLU:HB2	1:C:4872:PRO:HD3	1.84	0.59
1:G:316:PHE:HB3	1:G:346:CYS:HB3	1.85	0.59
1:G:3949:ARG:O	1:G:3952:SER:OG	2.17	0.59
1:G:4631:PHE:HZ	1:G:4639:MET:HE2	1.67	0.59
1:G:4815:ASP:O	1:G:4819:GLY:N	2.35	0.59
1:A:1455:PRO:HA	1:A:1549:PHE:CE2	2.37	0.59
1:A:1943:LEU:HD11	1:A:2098:VAL:HG22	1.83	0.59
1:A:4871:GLU:HB2	1:A:4872:PRO:HD3	1.84	0.59
1:E:317:ARG:NH2	1:E:321:GLU:O	2.36	0.59
1:E:4828:SER:HA	1:E:4831:THR:HG22	1.83	0.59
1:G:677:ALA:HA	2:H:40:ARG:HB3	1.83	0.59
1:G:830:ARG:HD3	1:G:1616:GLU:OE2	2.02	0.59
1:G:1257:VAL:HG12	1:G:1277:TRP:CH2	2.38	0.59
1:G:1781:CYS:SG	2:H:46:PHE:HE1	2.25	0.59
1:A:162:LYS:NZ	1:C:4050:GLU:OE2	2.33	0.59
1:A:4821:LYS:HD2	1:A:4824:ARG:HH21	1.66	0.59
1:C:317:ARG:NH2	1:C:321:GLU:O	2.36	0.59
1:E:2874:MET:HE1	1:E:2937:VAL:HG12	1.83	0.59
1:E:4871:GLU:HB2	1:E:4872:PRO:HD3	1.85	0.59
1:A:317:ARG:NH2	1:A:321:GLU:O	2.36	0.59
1:A:2450:ALA:O	1:A:2453:ILE:HG22	2.02	0.59
1:C:1083:VAL:O	1:C:1188:PHE:N	2.33	0.59
1:E:176:SER:HB2	1:E:178:ARG:HH21	1.67	0.59
1:E:195:PHE:CD1	1:G:2358:ILE:CG2	2.84	0.59
1:E:688:LEU:HB2	1:E:775:GLY:HA3	1.83	0.59
1:E:1220:GLN:NE2	1:G:3484:ALA:HB1	2.18	0.59
1:G:22:LEU:HD12	1:G:37:LEU:HD23	1.84	0.59
1:G:3995:VAL:HG13	1:G:3999:MET:HG3	1.85	0.59
1:C:316:PHE:HB3	1:C:346:CYS:HB3	1.85	0.59
1:C:533:ASN:HB3	1:C:536:ASN:HD22	1.68	0.59
1:C:821:LEU:O	1:C:1626:TRP:NE1	2.36	0.59
1:C:1220:GLN:NE2	1:E:3484:ALA:HB1	2.18	0.59
1:E:4856:PHE:O	1:E:4860:ARG:NE	2.33	0.59
1:G:748:LEU:HD21	1:G:777:PHE:HD2	1.68	0.59
1:A:176:SER:HB2	1:A:178:ARG:HH21	1.67	0.59
1:A:317:ARG:HH22	1:A:322:LYS:HA	1.67	0.59
1:C:2874:MET:HE1	1:C:2937:VAL:HG12	1.83	0.59
1:C:4035:VAL:HG12	1:C:4036:VAL:H	1.68	0.59
1:E:830:ARG:HD3	1:E:1616:GLU:OE2	2.03	0.59
1:E:1808:ARG:HA	1:E:1848:LEU:HD21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1808:ARG:HA	1:G:1848:LEU:HD21	1.85	0.59
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.30	0.59
1:G:2907:PRO:O	1:G:2910:THR:OG1	2.16	0.59
1:A:4822:THR:HG21	1:G:4839:MET:HG3	1.83	0.59
1:C:688:LEU:HB2	1:C:775:GLY:HA3	1.83	0.59
1:C:830:ARG:HD3	1:C:1616:GLU:OE2	2.02	0.59
1:E:316:PHE:HB3	1:E:346:CYS:HB3	1.85	0.59
1:E:4035:VAL:HG12	1:E:4036:VAL:H	1.67	0.59
1:G:4871:GLU:HB2	1:G:4872:PRO:HD3	1.85	0.59
1:A:4239:GLU:OE2	1:A:5014:TYR:OH	2.12	0.59
1:C:1257:VAL:HG12	1:C:1277:TRP:CH2	2.38	0.59
1:C:3709:ALA:HB2	1:C:3782:MET:SD	2.42	0.59
1:A:316:PHE:HB3	1:A:346:CYS:HB3	1.85	0.58
1:A:636:ASN:OD1	1:A:637:LEU:N	2.36	0.58
1:A:4185:GLY:O	1:A:4187:SER:N	2.34	0.58
1:C:1455:PRO:HA	1:C:1549:PHE:CE2	2.37	0.58
1:G:2870:GLU:OE2	1:G:2939:ARG:NE	2.35	0.58
1:A:748:LEU:HD21	1:A:777:PHE:HD2	1.68	0.58
1:A:830:ARG:HD3	1:A:1616:GLU:OE2	2.02	0.58
1:A:1257:VAL:HG12	1:A:1277:TRP:CH2	2.38	0.58
1:C:617:ASN:O	1:C:621:ILE:HG12	2.03	0.58
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.36	0.58
1:C:4708:THR:HG22	1:C:4710:SER:N	2.18	0.58
1:E:636:ASN:OD1	1:E:637:LEU:N	2.36	0.58
1:G:617:ASN:O	1:G:621:ILE:HG12	2.02	0.58
1:G:636:ASN:OD1	1:G:637:LEU:N	2.36	0.58
1:G:1716:ILE:O	1:G:1721:GLU:N	2.36	0.58
1:A:1159:THR:HG23	1:A:1180:ARG:HG2	1.86	0.58
1:A:3885:PHE:CE1	1:A:3919:THR:HG23	2.36	0.58
1:C:636:ASN:OD1	1:C:637:LEU:N	2.37	0.58
1:E:3709:ALA:HB2	1:E:3782:MET:SD	2.42	0.58
1:E:4708:THR:HG23	1:E:4772:ASP:OD2	2.04	0.58
1:G:1455:PRO:HA	1:G:1549:PHE:CE2	2.37	0.58
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.84	0.58
1:A:3937:TYR:O	1:A:4002:LYS:NZ	2.36	0.58
1:E:4185:GLY:O	1:E:4187:SER:N	2.34	0.58
1:G:410:LEU:HD21	1:G:441:VAL:HA	1.86	0.58
1:G:533:ASN:HB3	1:G:536:ASN:HD22	1.68	0.58
1:A:233:ILE:O	1:A:257:ARG:NH2	2.37	0.58
1:A:410:LEU:HD21	1:A:441:VAL:HA	1.86	0.58
1:A:1220:GLN:NE2	1:C:3484:ALA:HB1	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1808:ARG:HA	1:A:1848:LEU:HD21	1.85	0.58
1:A:3484:ALA:HB1	1:G:1220:GLN:NE2	2.18	0.58
1:C:410:LEU:HD21	1:C:441:VAL:HA	1.86	0.58
1:C:3927:GLN:HB3	1:C:3992:PHE:CE2	2.39	0.58
1:C:3937:TYR:O	1:C:4002:LYS:NZ	2.37	0.58
1:C:4856:PHE:O	1:C:4860:ARG:NE	2.32	0.58
1:E:533:ASN:HB3	1:E:536:ASN:HD22	1.68	0.58
1:E:1109:LEU:HA	1:E:1120:LEU:HD13	1.84	0.58
1:E:1257:VAL:HG12	1:E:1277:TRP:CH2	2.38	0.58
1:G:4035:VAL:HG12	1:G:4036:VAL:H	1.69	0.58
1:A:768:PHE:HA	1:A:1474:VAL:HA	1.83	0.58
1:E:1206:GLN:O	1:E:1209:SER:OG	2.18	0.58
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.86	0.58
1:E:3937:TYR:O	1:E:4002:LYS:NZ	2.36	0.58
1:G:1159:THR:HG23	1:G:1180:ARG:HG2	1.86	0.58
1:G:1238:PHE:HE2	1:G:1612:PHE:HA	1.69	0.58
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.36	0.58
1:A:617:ASN:O	1:A:621:ILE:HG12	2.03	0.58
1:A:635:THR:HA	1:A:1639:LEU:HA	1.86	0.58
1:A:4035:VAL:HG12	1:A:4036:VAL:H	1.67	0.58
1:C:541:SER:HA	1:C:574:VAL:HG22	1.85	0.58
1:C:748:LEU:HD21	1:C:777:PHE:HD2	1.68	0.58
1:C:1238:PHE:HE2	1:C:1612:PHE:HA	1.69	0.58
1:E:617:ASN:O	1:E:621:ILE:HG12	2.03	0.58
1:E:1716:ILE:O	1:E:1721:GLU:N	2.37	0.58
1:E:4708:THR:HG22	1:E:4710:SER:N	2.18	0.58
1:A:2917:ALA:HA	1:A:2920:ARG:HB3	1.84	0.58
1:C:831:ARG:HG3	1:C:840:VAL:HG21	1.86	0.58
1:C:1781:CYS:SG	2:D:46:PHE:CE1	2.97	0.58
1:C:4141:PHE:O	1:C:4145:VAL:HG23	2.04	0.58
1:E:748:LEU:HD21	1:E:777:PHE:HD2	1.68	0.58
1:E:1164:LEU:HG	1:E:1169:LEU:HD11	1.84	0.58
1:E:1236:THR:H	1:E:1612:PHE:HD1	1.52	0.58
1:G:4185:GLY:O	1:G:4187:SER:N	2.34	0.58
1:A:821:LEU:O	1:A:1626:TRP:NE1	2.37	0.58
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.37	0.58
1:C:2917:ALA:HA	1:C:2920:ARG:HB3	1.85	0.58
1:E:2917:ALA:HA	1:E:2920:ARG:HB3	1.85	0.58
1:G:317:ARG:HH22	1:G:322:LYS:HA	1.66	0.58
1:G:2063:LEU:HD13	1:G:3661:TRP:CH2	2.39	0.58
1:E:677:ALA:HA	2:F:40:ARG:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4794:TRP:HA	1:E:4797:VAL:HG12	1.86	0.58
1:G:317:ARG:NH2	1:G:321:GLU:O	2.36	0.58
1:G:3767:GLN:OE1	1:G:3809:ASN:ND2	2.36	0.58
1:C:635:THR:HA	1:C:1639:LEU:HA	1.86	0.57
1:E:635:THR:HA	1:E:1639:LEU:HA	1.86	0.57
1:E:1455:PRO:HA	1:E:1549:PHE:CE2	2.38	0.57
1:E:4839:MET:C	1:G:4823:LEU:HD21	2.29	0.57
1:G:1164:LEU:HG	1:G:1169:LEU:HD11	1.85	0.57
1:A:4708:THR:HG23	1:A:4772:ASP:OD2	2.04	0.57
1:C:233:ILE:O	1:C:257:ARG:NH2	2.38	0.57
1:A:677:ALA:HA	2:B:40:ARG:HB3	1.86	0.57
1:A:1716:ILE:O	1:A:1721:GLU:N	2.37	0.57
1:C:2870:GLU:OE2	1:C:2939:ARG:NE	2.38	0.57
1:E:76:ARG:CZ	1:G:3936:TYR:HA	2.34	0.57
1:E:1159:THR:HG23	1:E:1180:ARG:HG2	1.86	0.57
1:G:831:ARG:HG3	1:G:840:VAL:HG21	1.86	0.57
1:G:4677:LEU:HD22	1:G:4711:PHE:CZ	2.39	0.57
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.04	0.57
1:A:101:LEU:HB3	1:A:150:MET:HE1	1.87	0.57
1:A:831:ARG:HG3	1:A:840:VAL:HG21	1.87	0.57
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.86	0.57
1:C:677:ALA:HA	2:D:40:ARG:HB3	1.86	0.57
1:C:1612:PHE:O	1:C:1613:LEU:HB2	2.05	0.57
1:C:2161:GLN:O	1:C:2164:SER:OG	2.16	0.57
1:C:3992:PHE:O	1:C:3996:PHE:N	2.30	0.57
1:E:233:ILE:O	1:E:257:ARG:NH2	2.37	0.57
1:E:441:VAL:O	1:E:444:SER:OG	2.16	0.57
1:E:4917:ASP:OD2	1:G:4888:TYR:CE1	2.57	0.57
1:E:4922:PHE:HA	1:E:4926:VAL:HB	1.86	0.57
1:G:247:TYR:HE2	1:G:388:LEU:HD21	1.70	0.57
1:G:4554:TYR:HA	1:G:4557:ARG:NH1	2.18	0.57
1:G:4708:THR:HG22	1:G:4710:SER:N	2.19	0.57
1:A:247:TYR:HE2	1:A:388:LEU:HD21	1.69	0.57
1:A:4708:THR:HG22	1:A:4710:SER:N	2.17	0.57
1:A:4922:PHE:HA	1:A:4926:VAL:HB	1.87	0.57
2:B:7:ILE:HD11	2:B:73:LYS:HB2	1.86	0.57
1:E:410:LEU:HD21	1:E:441:VAL:HA	1.86	0.57
1:E:541:SER:HA	1:E:574:VAL:HG22	1.86	0.57
1:E:821:LEU:O	1:E:1626:TRP:NE1	2.38	0.57
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.86	0.57
1:G:1236:THR:H	1:G:1612:PHE:HD1	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3805:LEU:O	1:G:3807:GLY:N	2.37	0.57
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.04	0.57
1:A:533:ASN:HB3	1:A:536:ASN:HD22	1.68	0.57
1:A:1238:PHE:HE2	1:A:1612:PHE:HA	1.69	0.57
1:A:2149:VAL:O	1:A:2152:THR:OG1	2.16	0.57
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.86	0.57
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.37	0.57
1:C:4708:THR:HG23	1:C:4772:ASP:OD2	2.05	0.57
1:C:4922:PHE:HA	1:C:4926:VAL:HB	1.86	0.57
1:E:831:ARG:HG3	1:E:840:VAL:HG21	1.87	0.57
1:E:1781:CYS:SG	2:F:46:PHE:CE1	2.97	0.57
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.36	0.57
1:G:821:LEU:O	1:G:1626:TRP:NE1	2.37	0.57
1:G:3780:LEU:HD21	1:G:3820:LEU:HG	1.85	0.57
1:A:4849:TYR:HA	1:A:4852:THR:HG22	1.86	0.57
1:C:247:TYR:HE2	1:C:388:LEU:HD21	1.69	0.57
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.86	0.57
1:C:4235:VAL:HG21	1:C:5019:TRP:CZ3	2.40	0.57
1:E:3885:PHE:CE1	1:E:3919:THR:HG23	2.37	0.57
1:E:3927:GLN:HB3	1:E:3992:PHE:CE2	2.39	0.57
1:E:4141:PHE:O	1:E:4145:VAL:HG23	2.04	0.57
1:E:4235:VAL:HG21	1:E:5019:TRP:CZ3	2.40	0.57
1:G:1083:VAL:O	1:G:1188:PHE:N	2.33	0.57
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.36	0.57
1:C:1737:PRO:HB2	1:C:1739:THR:HG23	1.87	0.57
1:E:3992:PHE:O	1:E:3996:PHE:N	2.30	0.57
1:G:635:THR:HA	1:G:1639:LEU:HA	1.87	0.57
1:G:1769:THR:OG1	1:G:1956:GLU:OE2	2.23	0.57
1:A:4235:VAL:HG21	1:A:5019:TRP:CZ3	2.40	0.57
1:C:1159:THR:HG23	1:C:1180:ARG:HG2	1.86	0.57
1:C:1716:ILE:O	1:C:1721:GLU:N	2.37	0.57
1:C:4658:ILE:HG22	1:C:4792:LEU:HB3	1.87	0.57
1:E:1705:GLY:HA3	1:E:1836:PHE:CD2	2.40	0.57
1:A:234:SER:OG	1:A:242:ARG:HA	2.05	0.57
1:A:4658:ILE:HG22	1:A:4792:LEU:HB3	1.87	0.57
1:C:495:ASN:CA	1:C:553:ARG:HH12	2.18	0.57
1:C:1164:LEU:HG	1:C:1169:LEU:HD11	1.85	0.57
1:G:541:SER:HA	1:G:574:VAL:HG22	1.86	0.57
1:G:825:PRO:HD3	1:G:1619:ARG:NH1	2.20	0.57
1:G:4032:GLU:O	1:G:5006:GLN:NE2	2.38	0.57
1:A:541:SER:HA	1:A:574:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1737:PRO:HB2	1:A:1739:THR:HG23	1.87	0.56
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.38	0.56
1:A:4914:VAL:HG13	1:C:4888:TYR:HD1	1.69	0.56
1:A:4917:ASP:OD2	1:C:4888:TYR:CE1	2.58	0.56
1:C:1236:THR:H	1:C:1612:PHE:HD1	1.53	0.56
1:G:233:ILE:O	1:G:257:ARG:NH2	2.38	0.56
1:G:750:LEU:O	1:G:752:VAL:N	2.38	0.56
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.17	0.56
1:A:455:PRO:HB3	1:A:467:LYS:HD2	1.87	0.56
1:A:495:ASN:CA	1:A:553:ARG:HH12	2.19	0.56
1:A:1164:LEU:HG	1:A:1169:LEU:HD11	1.85	0.56
1:C:215:THR:HG22	1:C:273:HIS:HD2	1.70	0.56
1:C:234:SER:OG	1:C:242:ARG:HA	2.05	0.56
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.41	0.56
1:G:4059:LEU:HD11	1:G:4166:LEU:HD23	1.87	0.56
1:A:530:ILE:HG23	1:A:537:CYS:SG	2.45	0.56
1:A:1236:THR:H	1:A:1612:PHE:HD1	1.52	0.56
1:A:1781:CYS:SG	2:B:46:PHE:CE1	2.97	0.56
1:A:3927:GLN:HB3	1:A:3992:PHE:CE2	2.39	0.56
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.86	0.56
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.05	0.56
1:C:3835:LEU:HD11	1:C:3884:LEU:CD1	2.35	0.56
1:C:3885:PHE:CE1	1:C:3919:THR:HG23	2.37	0.56
1:C:4794:TRP:HA	1:C:4797:VAL:HG12	1.86	0.56
1:E:101:LEU:HB3	1:E:150:MET:HE1	1.87	0.56
1:E:825:PRO:HD3	1:E:1619:ARG:NH1	2.20	0.56
1:E:1238:PHE:HE2	1:E:1612:PHE:HA	1.69	0.56
1:G:1781:CYS:SG	2:H:46:PHE:CE1	2.98	0.56
1:G:2296:GLU:HA	1:G:2299:VAL:HG22	1.87	0.56
1:G:2301:TYR:HB3	1:G:2331:TYR:CE2	2.40	0.56
1:G:3937:TYR:O	1:G:4002:LYS:NZ	2.37	0.56
1:A:2125:HIS:NE2	1:A:3724:ALA:HB1	2.21	0.56
1:A:2499:LYS:HD2	1:A:2553:TYR:CE1	2.41	0.56
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.87	0.56
1:E:247:TYR:HE2	1:E:388:LEU:HD21	1.70	0.56
1:E:1612:PHE:O	1:E:1613:LEU:HB2	2.05	0.56
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.05	0.56
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.36	0.56
1:G:2205:GLU:HA	1:G:2208:MET:HE3	1.87	0.56
1:G:4680:LYS:HD3	1:G:4686:LEU:HD21	1.87	0.56
1:A:221:ARG:NE	1:A:253:CYS:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:750:LEU:O	1:A:752:VAL:N	2.38	0.56
1:E:234:SER:OG	1:E:242:ARG:HA	2.05	0.56
1:E:1131:ARG:NH2	1:E:1137:GLU:OE1	2.39	0.56
1:E:2301:TYR:HB3	1:E:2331:TYR:CE2	2.40	0.56
1:E:4934:GLY:CA	1:G:4937:ILE:HD12	2.35	0.56
1:G:530:ILE:HG23	1:G:537:CYS:SG	2.45	0.56
1:G:674:PHE:CB	2:H:40:ARG:NH1	2.68	0.56
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.86	0.56
1:C:692:TYR:CE1	1:C:711:LEU:HD21	2.41	0.56
1:C:1705:GLY:HA3	1:C:1836:PHE:CD2	2.41	0.56
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.86	0.56
1:E:495:ASN:ND2	1:E:550:LYS:HD2	2.21	0.56
1:E:4087:LEU:HG	1:E:4122:MET:HA	1.88	0.56
1:E:4172:GLU:HA	1:E:4175:ARG:NH1	2.20	0.56
1:G:3105:LYS:O	1:G:3109:ASN:N	2.39	0.56
1:A:495:ASN:ND2	1:A:550:LYS:HD2	2.21	0.56
1:A:3995:VAL:O	1:A:3999:MET:HB2	2.05	0.56
1:C:3949:ARG:O	1:C:3952:SER:OG	2.20	0.56
1:E:4240:ASP:OD1	1:E:4675:LYS:NZ	2.39	0.56
1:A:825:PRO:HD3	1:A:1619:ARG:NH1	2.20	0.56
1:C:732:SER:HB3	1:C:764:VAL:HG13	1.88	0.56
1:C:984:LEU:O	1:C:988:LEU:HG	2.06	0.56
1:C:1131:ARG:NH2	1:C:1137:GLU:OE1	2.39	0.56
1:C:2149:VAL:O	1:C:2152:THR:OG1	2.16	0.56
1:C:2499:LYS:HD2	1:C:2553:TYR:CE1	2.41	0.56
1:C:4849:TYR:HA	1:C:4852:THR:HG22	1.86	0.56
2:D:7:ILE:HD11	2:D:73:LYS:HB2	1.86	0.56
1:E:530:ILE:HG23	1:E:537:CYS:SG	2.45	0.56
1:E:1825:HIS:ND1	1:E:1825:HIS:O	2.39	0.56
1:E:3829:PHE:HD2	1:E:3915:ILE:HD11	1.71	0.56
1:G:495:ASN:CA	1:G:553:ARG:HH12	2.18	0.56
1:G:638:ILE:HG23	1:G:678:GLN:HE22	1.70	0.56
1:G:984:LEU:O	1:G:988:LEU:HG	2.06	0.56
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.41	0.56
1:A:4172:GLU:HA	1:A:4175:ARG:NH1	2.20	0.56
1:A:4682:GLU:OE2	1:A:4723:LYS:NZ	2.39	0.56
1:A:4794:TRP:HA	1:A:4797:VAL:HG12	1.86	0.56
1:C:28:VAL:HG12	1:C:29:LEU:HG	1.88	0.56
1:C:221:ARG:NE	1:C:253:CYS:O	2.38	0.56
1:C:287:THR:HB	1:C:289:ARG:NH1	2.21	0.56
1:C:455:PRO:HB3	1:C:467:LYS:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:530:ILE:HG23	1:C:537:CYS:SG	2.45	0.56
1:C:2765:LYS:NZ	1:C:2769:ASP:OD2	2.37	0.56
1:C:4087:LEU:HG	1:C:4122:MET:HA	1.88	0.56
1:C:4172:GLU:HA	1:C:4175:ARG:NH1	2.20	0.56
1:E:215:THR:HG22	1:E:273:HIS:HD2	1.70	0.56
1:E:745:SER:HB3	1:E:758:ARG:HB2	1.88	0.56
1:E:1737:PRO:HB2	1:E:1739:THR:HG23	1.88	0.56
1:E:2125:HIS:NE2	1:E:3724:ALA:HB1	2.20	0.56
1:G:101:LEU:HB3	1:G:150:MET:HE1	1.88	0.56
1:G:580:GLU:HA	1:G:620:LEU:HD11	1.87	0.56
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.06	0.56
1:G:3647:HIS:O	1:G:3651:ASN:ND2	2.39	0.56
1:G:3950:ASN:HA	1:G:3953:LYS:HD3	1.88	0.56
1:A:1131:ARG:NH2	1:A:1137:GLU:OE1	2.39	0.56
1:A:1612:PHE:O	1:A:1613:LEU:HB2	2.05	0.56
1:A:2205:GLU:HA	1:A:2208:MET:HE3	1.87	0.56
1:A:3980:LEU:HD21	1:A:3985:LEU:HD22	1.88	0.56
1:A:4141:PHE:O	1:A:4145:VAL:HG23	2.05	0.56
1:A:4909:TYR:O	1:A:4913:ARG:N	2.34	0.56
1:C:580:GLU:HA	1:C:620:LEU:HD11	1.87	0.56
1:C:2125:HIS:NE2	1:C:3724:ALA:HB1	2.21	0.56
1:E:28:VAL:HG12	1:E:29:LEU:HG	1.88	0.56
1:E:2205:GLU:HA	1:E:2208:MET:HE3	1.87	0.56
1:E:4580:TYR:CE1	1:E:4631:PHE:HB2	2.41	0.56
1:G:495:ASN:ND2	1:G:550:LYS:HD2	2.21	0.56
1:G:745:SER:HB3	1:G:758:ARG:HB2	1.88	0.56
1:G:2765:LYS:NZ	1:G:2769:ASP:OD2	2.36	0.56
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.06	0.55
1:C:244:LEU:HD22	1:C:375:LYS:HZ1	1.71	0.55
1:C:1089:TYR:HB2	1:C:1223:PHE:HB3	1.88	0.55
1:C:4914:VAL:HG13	1:E:4888:TYR:HD1	1.69	0.55
1:E:287:THR:HB	1:E:289:ARG:NH1	2.22	0.55
1:E:4239:GLU:OE2	1:E:5014:TYR:OH	2.12	0.55
1:G:287:THR:HB	1:G:289:ARG:NH1	2.21	0.55
1:G:1101:ARG:H	1:G:1193:SER:HB3	1.71	0.55
1:A:215:THR:HG22	1:A:273:HIS:HD2	1.70	0.55
1:A:2296:GLU:HA	1:A:2299:VAL:HG22	1.88	0.55
1:A:4580:TYR:CE1	1:A:4631:PHE:HB2	2.41	0.55
1:C:737:LEU:HD13	2:D:8:SER:HB3	1.88	0.55
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.07	0.55
1:E:1089:TYR:HB2	1:E:1223:PHE:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1101:ARG:H	1:E:1193:SER:HB3	1.71	0.55
1:E:3995:VAL:O	1:E:3999:MET:HB2	2.05	0.55
1:E:4839:MET:HG3	1:G:4822:THR:CG2	2.33	0.55
1:G:215:THR:HG22	1:G:273:HIS:HD2	1.70	0.55
1:G:1131:ARG:NH2	1:G:1137:GLU:OE1	2.39	0.55
1:G:4236:SER:O	1:G:4675:LYS:NZ	2.39	0.55
1:A:692:TYR:CE1	1:A:711:LEU:HD21	2.42	0.55
1:A:842:PRO:HD2	1:A:1195:GLY:O	2.06	0.55
1:C:4849:TYR:OH	1:E:4574:ASN:HB3	2.05	0.55
1:E:221:ARG:NE	1:E:253:CYS:O	2.39	0.55
1:E:1099:GLU:OE1	1:E:1127:HIS:NE2	2.40	0.55
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	1.87	0.55
1:G:842:PRO:HD2	1:G:1195:GLY:O	2.06	0.55
1:G:1089:TYR:HB2	1:G:1223:PHE:HB3	1.88	0.55
1:G:1433:TYR:HD2	1:G:1519:LEU:HD23	1.72	0.55
1:G:2499:LYS:HD2	1:G:2553:TYR:CE1	2.41	0.55
1:A:3813:GLN:OE1	1:A:3896:ASN:ND2	2.39	0.55
1:C:750:LEU:O	1:C:752:VAL:N	2.39	0.55
1:C:2205:GLU:HA	1:C:2208:MET:HE3	1.87	0.55
1:C:3995:VAL:O	1:C:3999:MET:HB2	2.05	0.55
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.38	0.55
1:E:2870:GLU:OE2	1:E:2939:ARG:NE	2.38	0.55
1:E:4658:ILE:HG22	1:E:4792:LEU:HB3	1.87	0.55
1:G:234:SER:OG	1:G:242:ARG:HA	2.05	0.55
1:G:1737:PRO:HB2	1:G:1739:THR:HG23	1.89	0.55
1:G:1806:ALA:O	1:G:1810:LYS:HG3	2.06	0.55
1:G:4686:LEU:HD13	1:G:4692:PRO:HD3	1.89	0.55
1:A:580:GLU:HA	1:A:620:LEU:HD11	1.87	0.55
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.06	0.55
1:C:101:LEU:HB3	1:C:150:MET:HE1	1.88	0.55
1:C:495:ASN:ND2	1:C:550:LYS:HD2	2.21	0.55
1:C:825:PRO:HD3	1:C:1619:ARG:NH1	2.20	0.55
1:C:1099:GLU:OE1	1:C:1127:HIS:NE2	2.39	0.55
1:C:1825:HIS:ND1	1:C:1825:HIS:O	2.39	0.55
1:E:580:GLU:HA	1:E:620:LEU:HD11	1.88	0.55
1:E:750:LEU:O	1:E:752:VAL:N	2.38	0.55
1:E:828:GLU:HG3	1:E:830:ARG:H	1.72	0.55
1:E:1433:TYR:HD2	1:E:1519:LEU:HD23	1.72	0.55
1:E:3835:LEU:HD11	1:E:3884:LEU:CD1	2.36	0.55
1:E:3916:ILE:HG23	1:E:3980:LEU:HD12	1.89	0.55
2:F:7:ILE:HD11	2:F:73:LYS:HB2	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1033:ARG:HA	1:G:1036:ARG:HG2	1.89	0.55
1:G:4879:MET:HA	1:G:4882:CYS:HB3	1.88	0.55
1:A:1705:GLY:HA3	1:A:1836:PHE:CD2	2.41	0.55
1:A:4087:LEU:HG	1:A:4122:MET:HA	1.88	0.55
1:C:4562:LEU:HD21	1:C:4656:LEU:HD12	1.89	0.55
1:E:4708:THR:O	1:E:4721:LYS:NZ	2.39	0.55
1:A:828:GLU:HG3	1:A:830:ARG:H	1.72	0.55
1:A:984:LEU:O	1:A:988:LEU:HG	2.06	0.55
1:A:1101:ARG:H	1:A:1193:SER:HB3	1.71	0.55
1:A:2765:LYS:NZ	1:A:2769:ASP:OD2	2.37	0.55
1:C:842:PRO:HD2	1:C:1195:GLY:O	2.06	0.55
1:C:3840:SER:O	1:C:3922:TYR:OH	2.22	0.55
1:C:4682:GLU:OE2	1:C:4723:LYS:NZ	2.39	0.55
1:E:737:LEU:HD13	2:F:8:SER:HB3	1.88	0.55
1:G:221:ARG:NE	1:G:253:CYS:O	2.39	0.55
1:G:455:PRO:HB3	1:G:467:LYS:HD2	1.88	0.55
1:G:3709:ALA:HB2	1:G:3782:MET:SD	2.47	0.55
1:G:4708:THR:HG23	1:G:4772:ASP:OD2	2.06	0.55
1:G:4712:PRO:HG2	1:G:4718:LYS:HD2	1.88	0.55
1:A:28:VAL:HG12	1:A:29:LEU:HG	1.88	0.55
1:A:1099:GLU:OE1	1:A:1127:HIS:NE2	2.39	0.55
1:A:3840:SER:O	1:A:3922:TYR:OH	2.22	0.55
1:A:4562:LEU:HD21	1:A:4656:LEU:HD12	1.89	0.55
1:C:1927:LEU:HG	1:C:2101:MET:HE3	1.88	0.55
1:C:4003:LEU:HB2	1:C:4013:LEU:HD13	1.89	0.55
1:E:2151:ASP:O	1:E:2154:SER:OG	2.19	0.55
1:E:4570:ALA:O	1:E:4574:ASN:ND2	2.32	0.55
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	1.88	0.55
1:G:4235:VAL:HG21	1:G:5019:TRP:CZ3	2.42	0.55
1:A:732:SER:HB3	1:A:764:VAL:HG13	1.89	0.55
1:A:2870:GLU:OE2	1:A:2939:ARG:NE	2.37	0.55
1:A:4708:THR:O	1:A:4721:LYS:NZ	2.39	0.55
1:C:3829:PHE:HD2	1:C:3915:ILE:HD11	1.71	0.55
1:C:4570:ALA:O	1:C:4574:ASN:ND2	2.32	0.55
1:E:162:LYS:NZ	1:G:3987:ASP:OD1	2.37	0.55
1:E:567:VAL:O	1:E:571:SER:OG	2.21	0.55
1:E:842:PRO:HD2	1:E:1195:GLY:O	2.07	0.55
1:E:1033:ARG:HA	1:E:1036:ARG:HG2	1.89	0.55
1:E:1927:LEU:HG	1:E:2101:MET:HE3	1.88	0.55
1:E:2499:LYS:HD2	1:E:2553:TYR:CE1	2.41	0.55
1:E:3980:LEU:HD21	1:E:3985:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4003:LEU:HB2	1:E:4013:LEU:HD13	1.89	0.55
1:E:4032:GLU:HB2	1:E:5006:GLN:CD	2.32	0.55
1:G:28:VAL:HG12	1:G:29:LEU:HG	1.88	0.55
1:G:561:LEU:HD11	1:G:599:VAL:HG22	1.89	0.55
1:G:692:TYR:CE1	1:G:711:LEU:HD21	2.41	0.55
1:G:828:GLU:HG3	1:G:830:ARG:H	1.72	0.55
1:G:2136:ARG:NH1	1:G:3720:TYR:HE2	2.04	0.55
1:G:3891:LEU:HD23	1:G:3899:PHE:CZ	2.42	0.55
1:A:287:THR:HB	1:A:289:ARG:NH1	2.21	0.55
1:A:1237:TRP:CD1	1:A:1611:HIS:HA	2.42	0.55
1:A:1806:ALA:O	1:A:1810:LYS:HG3	2.06	0.55
1:A:2142:TYR:HD2	1:A:2197:LEU:HD12	1.72	0.55
1:A:3780:LEU:HD21	1:A:3820:LEU:HG	1.89	0.55
1:C:1101:ARG:H	1:C:1193:SER:HB3	1.71	0.55
1:E:495:ASN:CA	1:E:553:ARG:HH12	2.18	0.55
1:E:4849:TYR:HA	1:E:4852:THR:HG22	1.89	0.55
1:G:1612:PHE:O	1:G:1613:LEU:HB2	2.05	0.55
1:A:1089:TYR:HB2	1:A:1223:PHE:HB3	1.88	0.54
1:A:1433:TYR:HD2	1:A:1519:LEU:HD23	1.72	0.54
1:A:1585:LYS:NZ	1:A:1596:GLU:HB2	2.23	0.54
1:A:1825:HIS:ND1	1:A:1825:HIS:O	2.39	0.54
1:C:828:GLU:HG3	1:C:830:ARG:H	1.72	0.54
1:C:2142:TYR:HD2	1:C:2197:LEU:HD12	1.72	0.54
1:C:4708:THR:O	1:C:4721:LYS:NZ	2.40	0.54
1:E:1806:ALA:O	1:E:1810:LYS:HG3	2.06	0.54
1:E:2142:TYR:HD2	1:E:2197:LEU:HD12	1.72	0.54
1:E:4720:VAL:O	1:E:4724:VAL:HG23	2.06	0.54
1:G:706:GLY:N	1:G:711:LEU:HD13	2.21	0.54
1:G:1237:TRP:CD1	1:G:1611:HIS:HA	2.43	0.54
1:G:3923:LEU:HD12	1:G:3961:VAL:HG12	1.89	0.54
1:A:1770:SER:OG	1:A:1771:LEU:N	2.40	0.54
1:A:3829:PHE:HD2	1:A:3915:ILE:HD11	1.71	0.54
1:C:1585:LYS:NZ	1:C:1596:GLU:HB2	2.23	0.54
1:C:1770:SER:OG	1:C:1771:LEU:N	2.40	0.54
1:E:1237:TRP:CD1	1:E:1611:HIS:HA	2.43	0.54
1:E:1238:PHE:CE2	1:E:1612:PHE:HA	2.42	0.54
1:E:3780:LEU:HD21	1:E:3820:LEU:HG	1.89	0.54
1:E:4682:GLU:OE2	1:E:4723:LYS:NZ	2.39	0.54
1:A:745:SER:HB3	1:A:758:ARG:HB2	1.88	0.54
1:A:2161:GLN:O	1:A:2164:SER:OG	2.16	0.54
1:A:3916:ILE:HG23	1:A:3980:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1781:CYS:SG	2:D:46:PHE:HE1	2.30	0.54
1:C:3916:ILE:HG23	1:C:3980:LEU:HD12	1.89	0.54
1:C:4856:PHE:CE2	1:C:4860:ARG:NH1	2.76	0.54
1:E:2902:HIS:HB3	1:E:2905:LEU:HG	1.89	0.54
1:G:641:VAL:HG11	1:G:704:GLY:HA2	1.89	0.54
1:G:732:SER:HB3	1:G:764:VAL:HG13	1.88	0.54
1:G:2142:TYR:HD2	1:G:2197:LEU:HD12	1.72	0.54
1:G:3904:ARG:HD3	1:G:3976:ASN:HA	1.88	0.54
1:G:4192:ARG:NH1	1:G:5028:PHE:CD2	2.76	0.54
1:A:1033:ARG:HA	1:A:1036:ARG:HG2	1.89	0.54
1:A:1235:THR:HG21	1:A:1702:HIS:CE1	2.43	0.54
1:A:1238:PHE:CE2	1:A:1612:PHE:HA	2.42	0.54
1:A:1781:CYS:SG	2:B:46:PHE:HE1	2.30	0.54
1:A:1850:VAL:HA	1:A:1945:TYR:CE1	2.43	0.54
1:A:2133:GLU:HA	1:A:2136:ARG:HE	1.72	0.54
1:C:1235:THR:HG21	1:C:1702:HIS:CE1	2.42	0.54
1:C:1237:TRP:CD1	1:C:1611:HIS:HA	2.42	0.54
1:E:706:GLY:N	1:E:711:LEU:HD13	2.21	0.54
1:G:1825:HIS:ND1	1:G:1825:HIS:O	2.39	0.54
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.89	0.54
1:G:4056:GLU:HG3	1:G:4166:LEU:HD21	1.88	0.54
2:H:4:VAL:HG22	2:H:74:LEU:HG	1.88	0.54
1:C:641:VAL:HG11	1:C:704:GLY:HA2	1.89	0.54
1:C:1033:ARG:HA	1:C:1036:ARG:HG2	1.89	0.54
1:C:1806:ALA:O	1:C:1810:LYS:HG3	2.06	0.54
1:C:3780:LEU:HD21	1:C:3820:LEU:HG	1.89	0.54
1:C:4103:PHE:HB2	1:C:4108:ILE:HD11	1.89	0.54
1:C:4917:ASP:OD2	1:E:4888:TYR:CE1	2.60	0.54
1:E:641:VAL:HG11	1:E:704:GLY:HA2	1.90	0.54
1:E:1781:CYS:SG	2:F:46:PHE:HE1	2.30	0.54
1:E:4562:LEU:HD21	1:E:4656:LEU:HD12	1.89	0.54
2:F:4:VAL:HG22	2:F:74:LEU:HG	1.89	0.54
2:F:37:ASP:OD1	2:F:38:SER:N	2.41	0.54
2:H:7:ILE:HD11	2:H:73:LYS:HB2	1.89	0.54
1:A:4003:LEU:HB2	1:A:4013:LEU:HD13	1.90	0.54
1:C:4047:MET:HG3	1:C:4048:LEU:N	2.23	0.54
2:D:2:VAL:HG23	2:D:76:ILE:HA	1.90	0.54
2:D:37:ASP:OD1	2:D:38:SER:N	2.41	0.54
1:E:984:LEU:O	1:E:988:LEU:HG	2.06	0.54
1:G:287:THR:HB	1:G:289:ARG:HH11	1.73	0.54
1:G:1099:GLU:OE1	1:G:1127:HIS:NE2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1850:VAL:HA	1:G:1945:TYR:CE1	2.43	0.54
1:C:745:SER:HB3	1:C:758:ARG:HB2	1.88	0.54
1:C:3934:TYR:HD1	1:C:3999:MET:HE3	1.73	0.54
1:C:4192:ARG:NH1	1:C:5028:PHE:CD2	2.76	0.54
1:E:111:HIS:HD2	1:E:114:SER:H	1.56	0.54
1:E:455:PRO:HB3	1:E:467:LYS:HD2	1.89	0.54
1:G:37:LEU:HD11	1:G:47:CYS:HB3	1.90	0.54
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.43	0.54
1:G:1705:GLY:HA3	1:G:1836:PHE:CD2	2.43	0.54
1:G:1808:ARG:HB2	1:G:1854:PHE:CE1	2.43	0.54
1:A:5027:CYS:SG	1:A:5030:LYS:HG2	2.48	0.54
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	1.89	0.54
1:E:692:TYR:CE1	1:E:711:LEU:HD21	2.41	0.54
1:E:1808:ARG:HB2	1:E:1854:PHE:CE1	2.43	0.54
1:G:2355:ARG:HA	1:G:2358:ILE:HD12	1.90	0.54
1:G:5027:CYS:SG	1:G:5030:LYS:HG2	2.48	0.54
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	1.88	0.54
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.16	0.54
1:A:4192:ARG:NH1	1:A:5028:PHE:CD2	2.76	0.54
2:B:2:VAL:HG23	2:B:76:ILE:HA	1.90	0.54
1:C:2296:GLU:HA	1:C:2299:VAL:HG22	1.88	0.54
1:C:2355:ARG:HA	1:C:2358:ILE:HD12	1.90	0.54
1:E:561:LEU:HD11	1:E:599:VAL:HG22	1.90	0.54
1:E:732:SER:HB3	1:E:764:VAL:HG13	1.90	0.54
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	1.89	0.54
1:E:1235:THR:HG21	1:E:1702:HIS:CE1	2.43	0.54
1:E:2296:GLU:HA	1:E:2299:VAL:HG22	1.88	0.54
1:E:4047:MET:HG3	1:E:4048:LEU:N	2.23	0.54
1:E:4193:ILE:HG22	1:E:5006:GLN:OE1	2.08	0.54
1:G:1291:LEU:HB3	1:G:1550:PRO:HG2	1.89	0.54
1:G:4032:GLU:HB2	1:G:5006:GLN:CD	2.33	0.54
1:G:4980:LEU:HA	1:G:4984:ASN:HB3	1.90	0.54
1:A:111:HIS:HD2	1:A:114:SER:H	1.56	0.54
1:A:3934:TYR:HD1	1:A:3999:MET:HE3	1.73	0.54
1:C:561:LEU:HD11	1:C:599:VAL:HG22	1.90	0.54
1:C:790:ARG:HH21	1:C:1625:GLY:HA3	1.73	0.54
1:C:1206:GLN:O	1:C:1209:SER:OG	2.18	0.54
1:C:1291:LEU:HB3	1:C:1550:PRO:HG2	1.90	0.54
1:C:1433:TYR:HD2	1:C:1519:LEU:HD23	1.72	0.54
1:C:2063:LEU:HD13	1:C:3661:TRP:CH2	2.43	0.54
1:C:4032:GLU:HB2	1:C:5006:GLN:CD	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5027:CYS:SG	1:C:5030:LYS:HG2	2.48	0.54
1:E:293:LEU:HD13	1:E:378:LEU:HD12	1.90	0.54
1:G:293:LEU:HD13	1:G:378:LEU:HD12	1.90	0.54
1:A:1245:PHE:CZ	1:A:1646:ARG:NH1	2.77	0.53
1:A:1927:LEU:HG	1:A:2101:MET:HE3	1.88	0.53
1:C:402:ARG:NH1	1:C:405:HIS:CD2	2.76	0.53
1:C:3813:GLN:OE1	1:C:3896:ASN:ND2	2.41	0.53
1:C:4193:ILE:HG22	1:C:5006:GLN:OE1	2.08	0.53
1:E:1585:LYS:NZ	1:E:1596:GLU:HB2	2.23	0.53
1:E:2139:PRO:HG3	1:E:3658:LYS:NZ	2.23	0.53
1:E:3813:GLN:OE1	1:E:3896:ASN:ND2	2.41	0.53
1:E:3949:ARG:O	1:E:3952:SER:OG	2.20	0.53
1:E:3996:PHE:CZ	1:E:4019:LEU:HD22	2.41	0.53
1:G:111:HIS:HD2	1:G:114:SER:H	1.56	0.53
1:G:1235:THR:HG21	1:G:1702:HIS:CE1	2.43	0.53
1:G:3839:CYS:SG	1:G:3881:THR:HB	2.48	0.53
1:G:3969:ILE:HG23	1:G:3977:GLN:HG2	1.88	0.53
1:A:737:LEU:HD13	2:B:8:SER:HB3	1.89	0.53
1:A:1808:ARG:HB2	1:A:1854:PHE:CE1	2.43	0.53
1:A:4032:GLU:HB2	1:A:5006:GLN:CD	2.32	0.53
1:A:4103:PHE:HB2	1:A:4108:ILE:HD11	1.89	0.53
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.43	0.53
1:E:790:ARG:HH21	1:E:1625:GLY:HA3	1.74	0.53
1:E:4103:PHE:HB2	1:E:4108:ILE:HD11	1.90	0.53
1:E:5027:CYS:SG	1:E:5030:LYS:HG2	2.48	0.53
1:C:1238:PHE:CE2	1:C:1612:PHE:HA	2.42	0.53
1:C:1653:LEU:HD23	1:C:1707:LEU:HD11	1.90	0.53
1:E:2149:VAL:O	1:E:2152:THR:OG1	2.16	0.53
1:A:4843:LEU:CD1	1:C:4827:LEU:HD11	2.38	0.53
1:C:1245:PHE:CZ	1:C:1646:ARG:NH1	2.77	0.53
1:C:1781:CYS:HG	2:D:46:PHE:HE1	1.50	0.53
1:C:1808:ARG:HB2	1:C:1854:PHE:CE1	2.43	0.53
1:E:402:ARG:NH1	1:E:405:HIS:CD2	2.77	0.53
1:E:2063:LEU:HD13	1:E:3661:TRP:CH2	2.43	0.53
1:E:4980:LEU:HA	1:E:4984:ASN:HB3	1.91	0.53
1:G:402:ARG:NH1	1:G:405:HIS:CD2	2.76	0.53
1:G:768:PHE:HB3	1:G:1474:VAL:HG22	1.90	0.53
1:A:641:VAL:HG11	1:A:704:GLY:HA2	1.89	0.53
1:A:768:PHE:HB3	1:A:1474:VAL:HG22	1.90	0.53
1:A:2063:LEU:HD13	1:A:3661:TRP:CH2	2.43	0.53
1:C:1850:VAL:HA	1:C:1945:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.08	0.53
1:E:2355:ARG:HA	1:E:2358:ILE:HD12	1.90	0.53
1:E:3934:TYR:HD1	1:E:3999:MET:HE3	1.73	0.53
1:G:1238:PHE:CE2	1:G:1612:PHE:HA	2.43	0.53
1:G:1667:LEU:HG	1:G:1714:LEU:HD11	1.91	0.53
1:G:1927:LEU:HG	1:G:2101:MET:HE3	1.90	0.53
1:A:561:LEU:HD11	1:A:599:VAL:HG22	1.90	0.53
1:A:1456:ASP:O	1:A:1457:TYR:HB2	2.07	0.53
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.19	0.53
1:C:451:TYR:CZ	1:C:474:ARG:HD2	2.43	0.53
1:C:1143:TRP:HB2	1:C:1147:ASP:HB2	1.90	0.53
1:C:4239:GLU:OE2	1:C:5014:TYR:OH	2.12	0.53
1:C:4980:LEU:HA	1:C:4984:ASN:HB3	1.91	0.53
1:G:441:VAL:O	1:G:444:SER:OG	2.16	0.53
1:G:3927:GLN:HB3	1:G:3992:PHE:CE2	2.44	0.53
1:G:4141:PHE:O	1:G:4145:VAL:HG23	2.08	0.53
2:H:88:PRO:O	2:H:90:ILE:HD12	2.09	0.53
1:A:3835:LEU:HD11	1:A:3884:LEU:CD1	2.36	0.53
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	1.90	0.53
2:B:4:VAL:HG22	2:B:74:LEU:HG	1.89	0.53
1:C:2902:HIS:HB3	1:C:2905:LEU:HG	1.89	0.53
1:E:1850:VAL:HA	1:E:1945:TYR:CE1	2.43	0.53
1:E:2551:ASN:O	1:E:2554:LEU:HG	2.09	0.53
1:E:3817:LEU:HD11	1:E:3821:LYS:HZ2	1.74	0.53
1:G:1143:TRP:HB2	1:G:1147:ASP:HB2	1.90	0.53
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.08	0.53
1:A:37:LEU:HD11	1:A:47:CYS:HB3	1.89	0.53
1:A:287:THR:HB	1:A:289:ARG:HH11	1.73	0.53
1:A:451:TYR:CZ	1:A:474:ARG:HD2	2.43	0.53
1:A:2876:GLU:OE2	1:A:2916:LYS:HD3	2.09	0.53
1:A:3768:SER:HA	1:A:3771:HIS:HB3	1.91	0.53
1:C:291:LEU:O	1:C:312:THR:OG1	2.23	0.53
1:C:4702:ASP:HA	1:C:4778:TRP:HE1	1.74	0.53
2:D:88:PRO:O	2:D:90:ILE:HD12	2.09	0.53
1:E:217:GLY:O	1:E:261:ARG:NH1	2.42	0.53
1:E:1143:TRP:HB2	1:E:1147:ASP:HB2	1.90	0.53
1:E:2765:LYS:NZ	1:E:2769:ASP:OD2	2.37	0.53
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	1.90	0.53
1:G:1245:PHE:CZ	1:G:1646:ARG:NH1	2.77	0.53
1:G:4118:ASP:HB2	1:G:4122:MET:HB2	1.89	0.53
1:G:4974:GLY:O	1:G:4977:THR:OG1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:291:LEU:O	1:A:312:THR:OG1	2.23	0.53
1:A:1691:GLN:HE22	1:A:1802:ILE:HA	1.74	0.53
1:C:293:LEU:HD13	1:C:378:LEU:HD12	1.90	0.53
1:C:842:PRO:HA	1:C:1073:ARG:HH12	1.74	0.53
1:C:2341:VAL:HG11	1:C:2346:VAL:HG13	1.91	0.53
1:C:4185:GLY:O	1:C:4187:SER:N	2.36	0.53
2:D:4:VAL:HG22	2:D:74:LEU:HG	1.90	0.53
1:E:639:ASN:OD1	1:E:640:TYR:N	2.42	0.53
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.18	0.53
1:E:3878:ASP:O	1:E:3881:THR:HG22	2.09	0.53
1:G:790:ARG:HH21	1:G:1625:GLY:HA3	1.74	0.53
1:G:1737:PRO:HB3	1:G:2149:VAL:HG11	1.91	0.53
1:G:3786:CYS:O	1:G:3789:GLU:HG2	2.08	0.53
2:H:2:VAL:HG23	2:H:76:ILE:HA	1.90	0.53
1:A:706:GLY:N	1:A:711:LEU:HD13	2.21	0.53
1:A:1291:LEU:HB3	1:A:1550:PRO:HG2	1.90	0.53
1:A:2341:VAL:HG11	1:A:2346:VAL:HG13	1.91	0.53
1:A:2902:HIS:HB3	1:A:2905:LEU:HG	1.90	0.53
1:C:768:PHE:HB3	1:C:1474:VAL:HG22	1.90	0.53
1:C:1456:ASP:O	1:C:1457:TYR:HB2	2.08	0.53
1:E:287:THR:HB	1:E:289:ARG:HH11	1.74	0.53
1:E:1291:LEU:HB3	1:E:1550:PRO:HG2	1.89	0.53
2:F:2:VAL:HG23	2:F:76:ILE:HA	1.89	0.53
1:G:833:GLY:HA3	1:G:838:HIS:CD2	2.44	0.53
1:A:639:ASN:OD1	1:A:640:TYR:N	2.42	0.52
1:A:833:GLY:HA3	1:A:838:HIS:CD2	2.45	0.52
1:A:1737:PRO:HB3	1:A:2149:VAL:HG11	1.91	0.52
1:A:2355:ARG:HA	1:A:2358:ILE:HD12	1.91	0.52
1:A:3795:SER:O	1:A:3799:LYS:HG2	2.09	0.52
1:A:4702:ASP:HA	1:A:4778:TRP:HE1	1.74	0.52
1:A:4980:LEU:HA	1:A:4984:ASN:HB3	1.91	0.52
1:C:111:HIS:HD2	1:C:114:SER:H	1.56	0.52
1:C:3920:VAL:HG22	1:C:3965:LEU:HD21	1.90	0.52
1:E:1781:CYS:HG	2:F:46:PHE:HE1	1.51	0.52
1:E:4055:VAL:HG13	1:E:4058:ILE:HD11	1.91	0.52
1:E:4702:ASP:HA	1:E:4778:TRP:HE1	1.75	0.52
1:G:1770:SER:OG	1:G:1771:LEU:N	2.40	0.52
1:A:1143:TRP:HB2	1:A:1147:ASP:HB2	1.90	0.52
1:A:4815:ASP:O	1:A:4819:GLY:N	2.40	0.52
1:A:4849:TYR:OH	1:C:4574:ASN:HB3	2.08	0.52
2:B:88:PRO:O	2:B:90:ILE:HD12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1769:THR:OG1	1:C:1956:GLU:OE2	2.26	0.52
1:C:2551:ASN:O	1:C:2554:LEU:HG	2.09	0.52
1:C:2876:GLU:OE2	1:C:2916:LYS:HD3	2.09	0.52
1:E:768:PHE:HB3	1:E:1474:VAL:HG22	1.90	0.52
1:E:1245:PHE:CZ	1:E:1646:ARG:NH1	2.77	0.52
1:E:1667:LEU:HG	1:E:1714:LEU:HD11	1.91	0.52
1:G:2902:HIS:HB3	1:G:2905:LEU:HG	1.91	0.52
1:A:293:LEU:HD13	1:A:378:LEU:HD12	1.91	0.52
1:A:790:ARG:HH21	1:A:1625:GLY:HA3	1.73	0.52
1:A:1667:LEU:HG	1:A:1714:LEU:HD11	1.91	0.52
1:A:3817:LEU:HD11	1:A:3821:LYS:HZ1	1.73	0.52
1:A:4047:MET:HG3	1:A:4048:LEU:N	2.23	0.52
1:A:4849:TYR:O	1:A:4852:THR:HG22	2.10	0.52
1:C:217:GLY:O	1:C:261:ARG:NH1	2.42	0.52
1:C:590:LEU:HB2	1:C:599:VAL:HG11	1.91	0.52
1:C:833:GLY:HA3	1:C:838:HIS:CD2	2.45	0.52
1:C:3835:LEU:C	1:C:3835:LEU:HD12	2.35	0.52
1:C:4655:PHE:O	1:C:4658:ILE:HG13	2.10	0.52
1:E:1584:ARG:HH11	1:E:1643:GLU:HG3	1.75	0.52
1:E:3768:SER:HA	1:E:3771:HIS:HB3	1.91	0.52
1:G:567:VAL:HG12	1:G:574:VAL:HG11	1.92	0.52
1:G:4909:TYR:O	1:G:4913:ARG:N	2.40	0.52
1:A:217:GLY:O	1:A:261:ARG:NH1	2.42	0.52
1:A:402:ARG:NH1	1:A:405:HIS:CD2	2.77	0.52
1:A:441:VAL:O	1:A:444:SER:OG	2.16	0.52
1:A:1769:THR:OG1	1:A:1956:GLU:OE2	2.25	0.52
1:A:1805:GLU:O	1:A:1808:ARG:HG2	2.10	0.52
1:A:2803:GLU:HA	1:A:2806:ARG:HB2	1.92	0.52
1:E:37:LEU:HD11	1:E:47:CYS:HB3	1.91	0.52
1:G:664:PHE:CE2	1:G:779:PRO:HB3	2.45	0.52
1:G:1585:LYS:NZ	1:G:1596:GLU:HB2	2.24	0.52
1:G:3885:PHE:HE1	1:G:3919:THR:HG23	1.73	0.52
1:A:231:LEU:HD11	1:A:245:VAL:HG13	1.91	0.52
1:A:840:VAL:HG12	1:A:1199:VAL:HG13	1.92	0.52
1:A:2551:ASN:O	1:A:2554:LEU:HG	2.09	0.52
1:A:4193:ILE:HG22	1:A:5006:GLN:OE1	2.09	0.52
1:A:4555:LEU:HD21	1:A:4656:LEU:O	2.10	0.52
1:A:4686:LEU:HD13	1:A:4692:PRO:HD3	1.91	0.52
1:A:4914:VAL:HG13	1:C:4888:TYR:CD1	2.45	0.52
1:A:4934:GLY:HA3	1:C:4937:ILE:HD13	1.88	0.52
1:C:223:PHE:HD1	1:C:230:CYS:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:706:GLY:N	1:C:711:LEU:HD13	2.21	0.52
1:C:840:VAL:HG12	1:C:1199:VAL:HG13	1.92	0.52
1:C:1584:ARG:HH11	1:C:1643:GLU:HG3	1.75	0.52
1:C:3795:SER:O	1:C:3799:LYS:HG2	2.10	0.52
1:C:3878:ASP:O	1:C:3881:THR:HG22	2.09	0.52
1:C:4055:VAL:HG13	1:C:4058:ILE:HD11	1.92	0.52
1:C:4914:VAL:HG13	1:E:4888:TYR:CD1	2.45	0.52
1:E:567:VAL:HG12	1:E:574:VAL:HG11	1.91	0.52
1:E:664:PHE:CE2	1:E:779:PRO:HB3	2.45	0.52
1:E:2453:ILE:HA	1:E:2456:ILE:HD12	1.92	0.52
1:E:3920:VAL:HG22	1:E:3965:LEU:HD21	1.90	0.52
1:E:3963:ASN:HA	1:E:3966:THR:HG22	1.92	0.52
1:G:590:LEU:HB2	1:G:599:VAL:HG11	1.92	0.52
1:G:1687:SER:CB	2:H:90:ILE:HG12	2.40	0.52
1:G:1961:PHE:HZ	1:G:2063:LEU:HD23	1.74	0.52
1:G:2151:ASP:O	1:G:2154:SER:OG	2.19	0.52
1:G:4076:ALA:HB2	1:G:4100:GLN:HB3	1.91	0.52
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.09	0.52
1:A:1584:ARG:HH11	1:A:1643:GLU:HG3	1.75	0.52
1:C:287:THR:HB	1:C:289:ARG:HH11	1.73	0.52
1:C:411:TYR:HB2	1:C:486:LEU:HD21	1.91	0.52
1:C:613:ALA:HB1	1:C:618:GLN:HE22	1.75	0.52
1:C:3980:LEU:HD21	1:C:3985:LEU:HD22	1.91	0.52
1:C:4909:TYR:O	1:C:4913:ARG:N	2.34	0.52
1:E:3795:SER:O	1:E:3799:LYS:HG2	2.09	0.52
1:E:4914:VAL:O	1:E:4918:ILE:HG12	2.10	0.52
1:E:4917:ASP:OD2	1:G:4892:ARG:NE	2.43	0.52
1:G:635:THR:OG1	1:G:1693:GLN:NE2	2.42	0.52
1:G:4901:ILE:HG21	1:G:4913:ARG:HH21	1.75	0.52
1:A:411:TYR:HB2	1:A:486:LEU:HD21	1.91	0.52
1:A:448:LEU:HD12	1:A:525:LEU:HD11	1.92	0.52
1:A:3920:VAL:HG22	1:A:3965:LEU:HD21	1.90	0.52
2:B:37:ASP:OD1	2:B:38:SER:N	2.41	0.52
1:E:833:GLY:HA3	1:E:838:HIS:CD2	2.45	0.52
1:E:2876:GLU:OE2	1:E:2916:LYS:HD3	2.09	0.52
1:E:4555:LEU:HD21	1:E:4656:LEU:O	2.10	0.52
1:G:1206:GLN:O	1:G:1209:SER:OG	2.18	0.52
1:G:1584:ARG:HH11	1:G:1643:GLU:HG3	1.74	0.52
1:G:1805:GLU:O	1:G:1808:ARG:HG2	2.09	0.52
1:G:3989:VAL:HG12	1:G:4047:MET:HE1	1.91	0.52
1:C:231:LEU:HD11	1:C:245:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:ASN:OD1	1:C:640:TYR:N	2.42	0.52
1:C:1737:PRO:HB3	1:C:2149:VAL:HG11	1.92	0.52
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	1.89	0.52
1:E:842:PRO:HA	1:E:1073:ARG:HH12	1.74	0.52
1:E:3698:LEU:HD23	1:E:3773:ARG:HD2	1.91	0.52
1:G:217:GLY:O	1:G:261:ARG:NH1	2.42	0.52
1:G:2551:ASN:O	1:G:2554:LEU:HG	2.09	0.52
1:C:547:VAL:HG12	1:C:564:LEU:HD12	1.92	0.52
1:C:664:PHE:CE2	1:C:779:PRO:HB3	2.45	0.52
1:C:853:PRO:HB3	1:C:1023:PRO:HB3	1.92	0.52
1:C:2453:ILE:HA	1:C:2456:ILE:HD12	1.92	0.52
1:E:613:ALA:HB1	1:E:618:GLN:HE22	1.75	0.52
1:E:1111:PRO:HG3	1:E:1609:PRO:HD3	1.92	0.52
1:E:1737:PRO:HB3	1:E:2149:VAL:HG11	1.92	0.52
1:G:639:ASN:OD1	1:G:640:TYR:N	2.42	0.52
1:G:1127:HIS:ND1	1:G:1128:ARG:HG2	2.25	0.52
1:G:2149:VAL:O	1:G:2152:THR:OG1	2.16	0.52
1:G:2557:ALA:C	1:G:2560:PRO:HD2	2.35	0.52
1:A:2143:THR:N	1:A:3651:ASN:OD1	2.43	0.52
1:A:2557:ALA:C	1:A:2560:PRO:HD2	2.35	0.52
1:A:4826:ILE:O	1:A:4829:SER:HB2	2.10	0.52
1:C:37:LEU:HD11	1:C:47:CYS:HB3	1.91	0.52
1:C:638:ILE:HG23	1:C:678:GLN:HE22	1.75	0.52
1:C:2143:THR:N	1:C:3651:ASN:OD1	2.43	0.52
1:C:4686:LEU:HD13	1:C:4692:PRO:HD3	1.91	0.52
1:E:840:VAL:HG12	1:E:1199:VAL:HG13	1.92	0.52
1:E:4677:LEU:HD22	1:E:4711:PHE:CZ	2.45	0.52
2:F:49:MET:N	2:F:54:GLU:OE2	2.43	0.52
1:G:674:PHE:O	2:H:40:ARG:NH1	2.42	0.52
1:G:2917:ALA:HA	1:G:2920:ARG:HB3	1.91	0.52
1:A:567:VAL:HG12	1:A:574:VAL:HG11	1.92	0.51
1:A:863:LEU:H	1:A:930:LYS:HE3	1.75	0.51
1:A:2151:ASP:O	1:A:2154:SER:OG	2.19	0.51
1:A:3878:ASP:O	1:A:3881:THR:HG22	2.10	0.51
1:A:4164:LEU:HD23	1:A:4168:GLU:OE2	2.10	0.51
2:B:49:MET:N	2:B:54:GLU:OE2	2.43	0.51
1:C:3996:PHE:CZ	1:C:4019:LEU:HD22	2.41	0.51
1:E:411:TYR:HB2	1:E:486:LEU:HD21	1.91	0.51
1:E:629:ARG:NH1	1:E:1688:HIS:CD2	2.78	0.51
1:E:1653:LEU:HD23	1:E:1707:LEU:HD11	1.91	0.51
1:E:1691:GLN:HE22	1:E:1802:ILE:HA	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4826:ILE:O	1:E:4829:SER:HB2	2.11	0.51
1:E:4849:TYR:O	1:E:4852:THR:HG22	2.10	0.51
1:G:840:VAL:HG12	1:G:1199:VAL:HG13	1.92	0.51
1:A:223:PHE:HD1	1:A:230:CYS:HB3	1.75	0.51
1:A:613:ALA:HB1	1:A:618:GLN:HE22	1.75	0.51
1:A:629:ARG:NH1	1:A:1688:HIS:CD2	2.78	0.51
1:A:842:PRO:HA	1:A:1073:ARG:HH12	1.74	0.51
1:A:4574:ASN:HB3	1:G:4849:TYR:OH	2.10	0.51
1:C:3768:SER:HA	1:C:3771:HIS:HB3	1.91	0.51
1:C:3879:GLU:OE2	1:C:3883:ASP:OD2	2.28	0.51
1:E:853:PRO:HB3	1:E:1023:PRO:HB3	1.92	0.51
1:E:1127:HIS:ND1	1:E:1128:ARG:HG2	2.26	0.51
1:E:1699:GLU:CD	1:E:1810:LYS:HZ3	2.14	0.51
1:G:12:GLN:O	1:G:165:VAL:HG23	2.10	0.51
1:G:231:LEU:HD11	1:G:245:VAL:HG13	1.92	0.51
1:G:1111:PRO:HG3	1:G:1609:PRO:HD3	1.93	0.51
1:G:2453:ILE:HA	1:G:2456:ILE:HD12	1.92	0.51
1:A:664:PHE:CE2	1:A:779:PRO:HB3	2.45	0.51
1:A:1206:GLN:O	1:A:1209:SER:OG	2.18	0.51
1:A:2755:ILE:HD13	1:A:2810:LYS:HG2	1.93	0.51
1:A:3963:ASN:HA	1:A:3966:THR:HG22	1.92	0.51
1:A:4677:LEU:HD22	1:A:4711:PHE:CZ	2.45	0.51
1:C:492:ASP:OD1	1:C:546:TRP:NE1	2.43	0.51
1:C:753:PRO:HB2	1:C:769:GLU:O	2.11	0.51
1:C:1206:GLN:H	1:C:1227:ALA:HB3	1.76	0.51
1:C:3817:LEU:HD11	1:C:3821:LYS:HZ2	1.75	0.51
2:D:49:MET:N	2:D:54:GLU:OE2	2.43	0.51
1:E:646:PRO:HD2	1:E:779:PRO:HG2	1.92	0.51
1:E:1206:GLN:H	1:E:1227:ALA:HB3	1.75	0.51
1:E:1805:GLU:O	1:E:1808:ARG:HG2	2.10	0.51
1:E:3989:VAL:CG1	1:E:4047:MET:HE1	2.40	0.51
1:E:4164:LEU:HD23	1:E:4168:GLU:OE2	2.10	0.51
1:E:4192:ARG:NH1	1:E:5028:PHE:CD2	2.78	0.51
1:G:629:ARG:NH1	1:G:1688:HIS:CD2	2.78	0.51
1:A:547:VAL:HG12	1:A:564:LEU:HD12	1.92	0.51
1:A:638:ILE:HG23	1:A:678:GLN:HE22	1.76	0.51
1:A:646:PRO:HD2	1:A:779:PRO:HG2	1.92	0.51
1:A:1127:HIS:ND1	1:A:1128:ARG:HG2	2.26	0.51
1:A:2453:ILE:HA	1:A:2456:ILE:HD12	1.93	0.51
1:C:1667:LEU:HG	1:C:1714:LEU:HD11	1.91	0.51
1:C:1805:GLU:O	1:C:1808:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4677:LEU:HD22	1:C:4711:PHE:CZ	2.45	0.51
1:E:1849:LEU:HG	1:E:1945:TYR:CE2	2.46	0.51
1:E:3835:LEU:C	1:E:3835:LEU:HD12	2.35	0.51
1:G:411:TYR:HB2	1:G:486:LEU:HD21	1.91	0.51
1:G:634:GLN:HB3	1:G:1640:HIS:HE1	1.74	0.51
1:G:4033:GLY:O	1:G:4189:ARG:NH2	2.29	0.51
1:G:4691:GLN:HB2	1:G:4703:ARG:HH22	1.75	0.51
1:A:590:LEU:HB2	1:A:599:VAL:HG11	1.91	0.51
1:A:853:PRO:HB3	1:A:1023:PRO:HB3	1.92	0.51
1:A:4055:VAL:HG13	1:A:4058:ILE:HD11	1.91	0.51
1:C:835:ARG:NH2	1:C:1093:GLU:OE2	2.43	0.51
1:C:3698:LEU:HD23	1:C:3773:ARG:HD2	1.91	0.51
1:C:3963:ASN:HA	1:C:3966:THR:HG22	1.92	0.51
1:C:4164:LEU:HD23	1:C:4168:GLU:OE2	2.10	0.51
1:C:4576:ILE:HG22	1:C:4643:LEU:HD12	1.92	0.51
1:E:638:ILE:HG23	1:E:678:GLN:HE22	1.76	0.51
1:E:989:ALA:HB1	1:E:1035:ASN:HB3	1.93	0.51
1:E:1821:ASP:OD1	1:E:1822:GLY:N	2.44	0.51
1:E:2755:ILE:HD13	1:E:2810:LYS:HG2	1.93	0.51
1:E:3879:GLU:OE2	1:E:3883:ASP:OD2	2.28	0.51
2:F:88:PRO:O	2:F:90:ILE:HD12	2.09	0.51
1:G:37:LEU:HD13	1:G:191:VAL:HG21	1.93	0.51
1:G:835:ARG:NH2	1:G:1093:GLU:OE2	2.43	0.51
1:G:842:PRO:HA	1:G:1073:ARG:HH12	1.74	0.51
1:G:4712:PRO:HD3	1:G:4721:LYS:HE3	1.93	0.51
1:A:256:ALA:HB3	1:A:481:GLU:OE2	2.11	0.51
1:A:2807:TRP:O	1:A:2811:GLU:HG2	2.11	0.51
1:A:3698:LEU:HD23	1:A:3773:ARG:HD2	1.92	0.51
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.46	0.51
1:A:3989:VAL:CG1	1:A:4047:MET:HE1	2.40	0.51
1:A:4205:TRP:HZ2	1:A:4214:LYS:HE2	1.76	0.51
1:C:863:LEU:H	1:C:930:LYS:HE3	1.76	0.51
1:C:1691:GLN:HE22	1:C:1802:ILE:HA	1.75	0.51
1:C:2557:ALA:C	1:C:2560:PRO:HD2	2.36	0.51
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.46	0.51
1:G:613:ALA:HB1	1:G:618:GLN:HE22	1.75	0.51
1:G:1972:ASN:O	1:G:1975:SER:OG	2.27	0.51
1:G:4555:LEU:HD21	1:G:4656:LEU:O	2.11	0.51
1:G:4682:GLU:CD	1:G:4723:LYS:NZ	2.68	0.51
1:A:635:THR:OG1	1:A:1693:GLN:NE2	2.43	0.51
1:A:2476:ILE:HA	1:A:2495:VAL:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:GLN:O	1:C:165:VAL:HG23	2.11	0.51
1:C:1127:HIS:ND1	1:C:1128:ARG:HG2	2.26	0.51
1:C:2203:MET:HE2	1:C:2235:PHE:HZ	1.76	0.51
1:C:3989:VAL:CG1	1:C:4047:MET:HE1	2.40	0.51
1:E:590:LEU:HB2	1:E:599:VAL:HG11	1.92	0.51
1:E:753:PRO:HB2	1:E:769:GLU:O	2.11	0.51
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.46	0.51
1:G:1206:GLN:H	1:G:1227:ALA:HB3	1.75	0.51
1:A:1653:LEU:HD23	1:A:1707:LEU:HD11	1.91	0.51
1:A:1658:ASP:OD1	1:A:1661:ARG:NH2	2.44	0.51
1:A:3835:LEU:HD12	1:A:3835:LEU:C	2.36	0.51
1:A:3879:GLU:OE2	1:A:3883:ASP:OD2	2.28	0.51
1:A:4655:PHE:O	1:A:4658:ILE:HG13	2.10	0.51
2:B:25:HIS:CG	2:B:40:ARG:HE	2.29	0.51
1:C:37:LEU:HD13	1:C:191:VAL:HG21	1.92	0.51
1:C:1101:ARG:N	1:C:1193:SER:HB3	2.25	0.51
1:C:2803:GLU:HA	1:C:2806:ARG:HB2	1.92	0.51
1:C:4849:TYR:O	1:C:4852:THR:HG22	2.10	0.51
1:E:1658:ASP:OD1	1:E:1661:ARG:NH2	2.44	0.51
1:E:2203:MET:HE2	1:E:2235:PHE:HZ	1.75	0.51
1:E:2865:VAL:O	1:E:2928:LYS:NZ	2.38	0.51
1:E:4878:ASP:HA	1:G:4581:LYS:CB	2.40	0.51
2:F:25:HIS:CG	2:F:40:ARG:HE	2.29	0.51
1:G:1653:LEU:HD23	1:G:1707:LEU:HD11	1.92	0.51
1:G:1691:GLN:HE22	1:G:1802:ILE:HA	1.75	0.51
1:A:1849:LEU:HG	1:A:1945:TYR:CE2	2.46	0.51
1:C:635:THR:OG1	1:C:1693:GLN:NE2	2.43	0.51
1:C:674:PHE:O	2:D:40:ARG:NH1	2.44	0.51
1:C:1849:LEU:HG	1:C:1945:TYR:CE2	2.46	0.51
1:C:2807:TRP:O	1:C:2811:GLU:HG2	2.11	0.51
1:C:4555:LEU:HD21	1:C:4656:LEU:O	2.10	0.51
1:E:223:PHE:HD1	1:E:230:CYS:HB3	1.75	0.51
1:E:668:VAL:HA	1:E:789:VAL:HG12	1.93	0.51
1:E:1769:THR:OG1	1:E:1956:GLU:OE2	2.25	0.51
1:E:2341:VAL:HG11	1:E:2346:VAL:HG13	1.92	0.51
1:G:1821:ASP:OD1	1:G:1822:GLY:N	2.44	0.51
1:G:2063:LEU:HD13	1:G:3661:TRP:HH2	1.76	0.51
1:G:2341:VAL:HG11	1:G:2346:VAL:HG13	1.91	0.51
1:G:2476:ILE:HA	1:G:2495:VAL:HG21	1.93	0.51
1:G:2561:LEU:HD11	1:G:2601:ASP:HA	1.93	0.51
1:G:2827:ARG:HB2	1:G:2934:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:ASP:OD1	1:A:546:TRP:NE1	2.44	0.51
1:A:668:VAL:HA	1:A:789:VAL:HG12	1.93	0.51
1:A:4030:LEU:HD21	1:A:4040:ILE:HG12	1.93	0.51
1:C:668:VAL:HA	1:C:789:VAL:HG12	1.93	0.51
1:C:1658:ASP:OD1	1:C:1661:ARG:NH2	2.44	0.51
1:C:4843:LEU:CD1	1:E:4827:LEU:HD11	2.39	0.51
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.43	0.51
1:E:669:ASP:HB2	1:E:788:LYS:HG3	1.93	0.51
1:E:1113:VAL:HG12	1:E:1114:GLU:O	2.11	0.51
1:E:2143:THR:N	1:E:3651:ASN:OD1	2.43	0.51
1:E:4983:HIS:O	1:E:4985:LEU:N	2.44	0.51
1:G:1671:ARG:NH1	1:G:1713:ASP:OD2	2.43	0.51
1:G:3878:ASP:O	1:G:3881:THR:HG22	2.11	0.51
1:G:4055:VAL:HG13	1:G:4058:ILE:HD11	1.92	0.51
1:A:753:PRO:HB2	1:A:769:GLU:O	2.11	0.50
1:A:2203:MET:HE2	1:A:2235:PHE:HZ	1.75	0.50
1:C:629:ARG:NH1	1:C:1688:HIS:CD2	2.78	0.50
1:C:3661:TRP:O	1:C:3664:THR:HG23	2.11	0.50
1:C:4684:ASP:OD2	1:C:4686:LEU:HD23	2.11	0.50
1:C:4861:LYS:NZ	1:C:4909:TYR:CD2	2.79	0.50
1:E:37:LEU:HD13	1:E:191:VAL:HG21	1.92	0.50
1:E:446:GLN:HG3	1:E:521:LEU:HD21	1.93	0.50
1:E:635:THR:OG1	1:E:1693:GLN:NE2	2.43	0.50
1:E:4655:PHE:O	1:E:4658:ILE:HG13	2.10	0.50
1:E:4686:LEU:HD13	1:E:4692:PRO:HD3	1.92	0.50
1:G:223:PHE:HD1	1:G:230:CYS:HB3	1.75	0.50
1:G:448:LEU:HD12	1:G:525:LEU:HD11	1.93	0.50
1:G:1113:VAL:HG12	1:G:1114:GLU:O	2.11	0.50
1:G:1698:LEU:HG	1:G:1712:TYR:CE1	2.46	0.50
1:G:4221:VAL:O	1:G:4225:GLY:N	2.37	0.50
1:G:4661:TYR:HE2	1:G:4789:PHE:HB2	1.76	0.50
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.11	0.50
1:G:4856:PHE:CE2	1:G:4860:ARG:NH1	2.79	0.50
1:A:1113:VAL:HG12	1:A:1114:GLU:O	2.11	0.50
1:C:548:VAL:O	1:C:551:LEU:HB3	2.12	0.50
1:C:646:PRO:HD2	1:C:779:PRO:HG2	1.92	0.50
1:C:1698:LEU:HG	1:C:1712:TYR:CE1	2.46	0.50
1:C:1712:TYR:O	1:C:1716:ILE:HG12	2.11	0.50
1:E:547:VAL:HG12	1:E:564:LEU:HD12	1.92	0.50
1:E:1698:LEU:HG	1:E:1712:TYR:CE1	2.46	0.50
1:E:2161:GLN:O	1:E:2164:SER:OG	2.16	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2557:ALA:C	1:E:2560:PRO:HD2	2.36	0.50
1:E:4049:VAL:HG21	1:E:4159:ARG:HD3	1.93	0.50
1:G:1849:LEU:HG	1:G:1945:TYR:CE2	2.46	0.50
1:A:1101:ARG:N	1:A:1193:SER:HB3	2.25	0.50
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.47	0.50
1:C:116:MET:HE2	1:C:139:GLU:OE2	2.12	0.50
1:C:448:LEU:HD12	1:C:525:LEU:HD11	1.93	0.50
1:C:4030:LEU:HD21	1:C:4040:ILE:HG12	1.93	0.50
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.12	0.50
1:C:4713:SER:HG	1:C:4775:TYR:HH	1.59	0.50
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.47	0.50
1:E:634:GLN:HB3	1:E:1640:HIS:HE1	1.74	0.50
1:E:1775:HIS:NE2	1:E:1851:MET:HG3	2.25	0.50
1:E:2803:GLU:HA	1:E:2806:ARG:HB2	1.92	0.50
1:E:3661:TRP:O	1:E:3664:THR:HG23	2.11	0.50
1:E:3840:SER:O	1:E:3922:TYR:OH	2.22	0.50
1:G:1101:ARG:N	1:G:1193:SER:HB3	2.25	0.50
1:G:1285:GLU:HG2	1:G:1286:MET:HG2	1.93	0.50
1:G:3965:LEU:HD23	1:G:4026:MET:HE1	1.94	0.50
1:G:4193:ILE:HG22	1:G:5006:GLN:OE1	2.11	0.50
1:A:839:LEU:HD22	1:A:1075:PHE:CE1	2.47	0.50
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.47	0.50
1:A:4937:ILE:CD1	1:G:4934:GLY:CA	2.87	0.50
1:A:4984:ASN:HD21	1:A:4987:ASN:ND2	2.10	0.50
1:C:567:VAL:HG12	1:C:574:VAL:HG11	1.92	0.50
1:C:839:LEU:HD22	1:C:1075:PHE:CE1	2.47	0.50
1:C:4983:HIS:HE1	1:C:5023:PRO:HG2	1.76	0.50
1:E:20:VAL:HG12	1:E:204:PRO:HA	1.94	0.50
1:E:674:PHE:O	2:F:40:ARG:NH1	2.44	0.50
1:G:668:VAL:HA	1:G:789:VAL:HG12	1.94	0.50
1:G:737:LEU:HD13	2:H:8:SER:HB3	1.92	0.50
1:G:989:ALA:HB1	1:G:1035:ASN:HB3	1.93	0.50
1:G:1293:LEU:HD11	1:G:1598:GLN:HG2	1.94	0.50
1:G:2203:MET:HE2	1:G:2235:PHE:HZ	1.75	0.50
1:G:4240:ASP:OD1	1:G:4675:LYS:NZ	2.36	0.50
1:G:4640:GLU:HB3	1:G:4641:PRO:HD3	1.93	0.50
1:A:989:ALA:HB1	1:A:1035:ASN:HB3	1.92	0.50
1:A:1089:TYR:HE2	1:A:1091:GLU:OE2	1.95	0.50
1:A:1687:SER:CB	2:B:90:ILE:HG12	2.42	0.50
1:A:1698:LEU:HG	1:A:1712:TYR:CE1	2.47	0.50
1:A:4983:HIS:O	1:A:4985:LEU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:ASN:CB	1:C:553:ARG:HH12	2.25	0.50
1:C:1113:VAL:HG12	1:C:1114:GLU:O	2.11	0.50
1:C:4826:ILE:O	1:C:4829:SER:HB2	2.11	0.50
1:E:231:LEU:HD11	1:E:245:VAL:HG13	1.91	0.50
1:E:863:LEU:H	1:E:930:LYS:HE3	1.75	0.50
1:E:1285:GLU:HG2	1:E:1286:MET:HG2	1.92	0.50
1:E:2807:TRP:O	1:E:2811:GLU:HG2	2.12	0.50
1:G:495:ASN:CB	1:G:553:ARG:HH12	2.25	0.50
1:G:547:VAL:HG12	1:G:564:LEU:HD12	1.92	0.50
1:G:753:PRO:HB2	1:G:769:GLU:O	2.11	0.50
1:G:1658:ASP:OD1	1:G:1661:ARG:NH2	2.44	0.50
1:G:2107:GLN:NE2	1:G:3680:ALA:O	2.44	0.50
1:G:4579:PHE:HB2	1:G:4631:PHE:CE1	2.47	0.50
1:A:15:ARG:N	1:A:18:ASP:OD2	2.45	0.50
1:A:222:LEU:HD22	1:A:231:LEU:HD23	1.94	0.50
1:A:3661:TRP:O	1:A:3664:THR:HG23	2.11	0.50
1:A:3977:GLN:NE2	1:A:4032:GLU:OE2	2.44	0.50
1:A:4878:ASP:HA	1:C:4581:LYS:CB	2.41	0.50
1:A:4983:HIS:HE1	1:A:5023:PRO:HG2	1.76	0.50
1:C:1598:GLN:NE2	1:C:1643:GLU:OE2	2.45	0.50
1:C:2755:ILE:HD13	1:C:2810:LYS:HG2	1.93	0.50
1:E:835:ARG:NH2	1:E:1093:GLU:OE2	2.44	0.50
1:E:1101:ARG:N	1:E:1193:SER:HB3	2.26	0.50
1:E:3771:HIS:HE1	1:E:3815:LYS:HB3	1.76	0.50
1:E:4205:TRP:HZ2	1:E:4214:LYS:HE2	1.76	0.50
1:E:4221:VAL:O	1:E:4225:GLY:N	2.43	0.50
1:G:548:VAL:O	1:G:551:LEU:HB3	2.12	0.50
1:G:669:ASP:HB2	1:G:788:LYS:HG3	1.94	0.50
1:G:1775:HIS:NE2	1:G:1851:MET:HG3	2.26	0.50
1:G:4859:PHE:HZ	1:G:4912:TYR:HB3	1.76	0.50
1:A:1227:ALA:HA	1:A:1230:MET:HB2	1.94	0.50
1:A:1821:ASP:OD1	1:A:1822:GLY:N	2.44	0.50
1:C:634:GLN:HB3	1:C:1640:HIS:HE1	1.74	0.50
1:C:669:ASP:HB2	1:C:788:LYS:HG3	1.93	0.50
1:E:828:GLU:O	1:E:840:VAL:HG23	2.12	0.50
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.19	0.50
1:G:446:GLN:HG3	1:G:521:LEU:HD21	1.94	0.50
1:G:839:LEU:HD22	1:G:1075:PHE:CE1	2.47	0.50
1:G:853:PRO:HB3	1:G:1023:PRO:HB3	1.93	0.50
1:G:887:ILE:HD11	1:G:907:LEU:HB3	1.94	0.50
1:G:3927:GLN:O	1:G:3931:SER:N	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4851:TYR:O	1:G:4855:ALA:N	2.44	0.50
1:A:887:ILE:HD11	1:A:907:LEU:HB3	1.94	0.50
1:A:1285:GLU:HG2	1:A:1286:MET:HG2	1.92	0.50
1:A:1775:HIS:NE2	1:A:1851:MET:HG3	2.26	0.50
1:A:1972:ASN:O	1:A:1975:SER:OG	2.27	0.50
1:A:2561:LEU:HD11	1:A:2601:ASP:HA	1.93	0.50
1:C:3771:HIS:CE1	1:C:3812:VAL:HA	2.47	0.50
1:C:3771:HIS:HE1	1:C:3815:LYS:HB3	1.77	0.50
2:D:25:HIS:CG	2:D:40:ARG:HE	2.29	0.50
1:E:839:LEU:HD22	1:E:1075:PHE:CE1	2.47	0.50
1:E:1687:SER:CB	2:F:90:ILE:HG12	2.42	0.50
1:E:1712:TYR:O	1:E:1716:ILE:HG12	2.11	0.50
1:E:2326:CYS:O	1:E:2330:ARG:HG2	2.12	0.50
1:E:3902:TYR:O	1:E:3906:GLN:N	2.45	0.50
1:G:4145:VAL:O	1:G:4149:ASN:N	2.40	0.50
1:G:4555:LEU:HD11	1:G:4656:LEU:HB2	1.92	0.50
1:G:4661:TYR:CE1	1:G:4665:LYS:HB2	2.46	0.50
1:A:909:ASN:O	1:A:912:SER:OG	2.28	0.50
1:A:1111:PRO:HG3	1:A:1609:PRO:HD3	1.93	0.50
1:A:1206:GLN:H	1:A:1227:ALA:HB3	1.76	0.50
1:A:1259:ARG:HH12	1:A:1597:VAL:HA	1.77	0.50
1:A:1712:TYR:O	1:A:1716:ILE:HG12	2.11	0.50
1:A:3713:LYS:O	1:A:3715:LYS:N	2.45	0.50
1:A:3839:CYS:SG	1:A:3881:THR:HB	2.52	0.50
1:A:4684:ASP:OD2	1:A:4686:LEU:HD23	2.11	0.50
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.47	0.50
1:C:1089:TYR:HE2	1:C:1091:GLU:OE2	1.95	0.50
1:C:2326:CYS:O	1:C:2330:ARG:HG2	2.12	0.50
1:C:2476:ILE:HA	1:C:2495:VAL:HG21	1.93	0.50
1:C:3958:ALA:CB	1:C:4019:LEU:HD11	2.40	0.50
1:C:3977:GLN:NE2	1:C:4032:GLU:OE2	2.44	0.50
1:C:4984:ASN:HD21	1:C:4987:ASN:ND2	2.09	0.50
1:E:103:TYR:CE2	1:E:163:VAL:HA	2.47	0.50
1:E:291:LEU:O	1:E:312:THR:OG1	2.23	0.50
1:G:2155:LEU:HD13	1:G:2188:ASN:HD22	1.77	0.50
1:G:2803:GLU:HA	1:G:2806:ARG:HB2	1.93	0.50
1:G:4242:ILE:HA	1:G:4993:MET:HE1	1.93	0.50
1:A:446:GLN:HG3	1:A:521:LEU:HD21	1.93	0.49
1:A:634:GLN:HB3	1:A:1640:HIS:HE1	1.74	0.49
1:A:716:PHE:H	1:A:738:LEU:HD13	1.77	0.49
1:A:2561:LEU:HD21	1:A:2601:ASP:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3882:GLN:OE1	1:A:3957:VAL:HA	2.12	0.49
1:A:4856:PHE:CE2	1:A:4860:ARG:NH1	2.80	0.49
1:C:716:PHE:H	1:C:738:LEU:HD13	1.77	0.49
1:C:1821:ASP:OD1	1:C:1822:GLY:N	2.44	0.49
1:C:2561:LEU:HD11	1:C:2601:ASP:HA	1.93	0.49
1:C:3805:LEU:O	1:C:3807:GLY:N	2.45	0.49
1:E:15:ARG:N	1:E:18:ASP:OD2	2.45	0.49
1:E:448:LEU:HD12	1:E:525:LEU:HD11	1.93	0.49
1:E:2476:ILE:HA	1:E:2495:VAL:HG21	1.93	0.49
1:E:2561:LEU:HD11	1:E:2601:ASP:HA	1.93	0.49
1:E:3835:LEU:CD1	1:E:3884:LEU:HD13	2.42	0.49
1:E:3977:GLN:NE2	1:E:4032:GLU:OE2	2.45	0.49
1:E:4967:TYR:HD2	1:E:4968:PHE:CE1	2.30	0.49
1:G:1163:THR:HG22	1:G:1168:VAL:HA	1.94	0.49
1:G:2532:ALA:HA	1:G:2550:LEU:HD22	1.94	0.49
1:G:4661:TYR:OH	1:G:4788:SER:HB3	2.12	0.49
1:A:2532:ALA:HA	1:A:2550:LEU:HD22	1.94	0.49
1:A:3996:PHE:CZ	1:A:4019:LEU:HD22	2.41	0.49
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.12	0.49
1:C:1775:HIS:NE2	1:C:1851:MET:HG3	2.28	0.49
1:C:4049:VAL:HG21	1:C:4159:ARG:HD3	1.93	0.49
2:D:87:HIS:HD2	2:D:88:PRO:HD2	1.77	0.49
1:E:2561:LEU:HD21	1:E:2601:ASP:HA	1.93	0.49
1:E:4118:ASP:HB2	1:E:4122:MET:HB2	1.94	0.49
1:E:4684:ASP:OD2	1:E:4686:LEU:HD23	2.12	0.49
1:E:4925:ILE:HG23	1:E:4929:LEU:HD12	1.94	0.49
1:E:4984:ASN:HD21	1:E:4987:ASN:ND2	2.09	0.49
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.47	0.49
1:G:2326:CYS:O	1:G:2330:ARG:HG2	2.12	0.49
1:G:3733:CYS:HB2	1:G:3803:SER:OG	2.11	0.49
1:G:3886:ARG:O	1:G:3890:LEU:HD13	2.11	0.49
1:G:4035:VAL:HG12	1:G:4036:VAL:N	2.27	0.49
1:A:495:ASN:CB	1:A:553:ARG:HH12	2.25	0.49
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.19	0.49
1:A:3771:HIS:HE1	1:A:3815:LYS:HB3	1.77	0.49
2:B:87:HIS:HD2	2:B:88:PRO:HD2	1.78	0.49
1:C:674:PHE:CB	2:D:40:ARG:NH1	2.72	0.49
1:C:1293:LEU:HD11	1:C:1598:GLN:HG2	1.94	0.49
1:C:3817:LEU:HD11	1:C:3821:LYS:HZ1	1.76	0.49
1:E:887:ILE:HD11	1:E:907:LEU:HB3	1.94	0.49
1:E:1089:TYR:HE2	1:E:1091:GLU:OE2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1723:ALA:HB1	1:E:1775:HIS:CD2	2.43	0.49
1:E:3817:LEU:HD11	1:E:3821:LYS:HZ1	1.77	0.49
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.47	0.49
1:E:4983:HIS:HE1	1:E:5023:PRO:HG2	1.76	0.49
1:G:646:PRO:HD2	1:G:779:PRO:HG2	1.92	0.49
1:G:1457:TYR:OH	1:G:1553:PHE:CE1	2.60	0.49
1:G:1970:GLN:HE22	1:G:3645:PRO:HD2	1.77	0.49
1:A:37:LEU:HD13	1:A:191:VAL:HG21	1.93	0.49
1:A:54:ASN:O	1:A:56:GLN:N	2.46	0.49
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.46	0.49
1:A:2124:LEU:HD21	1:A:3677:LEU:HD21	1.95	0.49
1:A:2155:LEU:HD13	1:A:2188:ASN:HD22	1.78	0.49
1:C:887:ILE:HD11	1:C:907:LEU:HB3	1.94	0.49
1:C:1078:GLU:HB3	1:C:1081:TYR:CD2	2.48	0.49
1:C:1663:HIS:O	1:C:1666:THR:OG1	2.19	0.49
1:C:4118:ASP:HB2	1:C:4122:MET:HB2	1.94	0.49
1:C:4983:HIS:O	1:C:4985:LEU:N	2.44	0.49
1:E:116:MET:HE2	1:E:139:GLU:OE2	2.12	0.49
1:E:597:HIS:HB2	1:E:1665:HIS:CD2	2.48	0.49
1:E:712:TYR:HB3	1:E:768:PHE:CE1	2.48	0.49
1:E:1163:THR:HG22	1:E:1168:VAL:HA	1.94	0.49
1:E:2742:THR:OG1	1:E:2811:GLU:OE1	2.28	0.49
1:G:597:HIS:HB2	1:G:1665:HIS:CD2	2.47	0.49
1:G:828:GLU:O	1:G:840:VAL:HG23	2.12	0.49
1:G:863:LEU:H	1:G:930:LYS:HE3	1.76	0.49
1:G:2112:GLN:O	1:G:2113:SER:OG	2.25	0.49
1:A:415:ILE:HG23	1:A:493:ARG:HD2	1.95	0.49
1:A:548:VAL:O	1:A:551:LEU:HB3	2.12	0.49
1:A:1163:THR:HG22	1:A:1168:VAL:HA	1.94	0.49
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.95	0.49
1:C:54:ASN:O	1:C:56:GLN:N	2.46	0.49
1:C:256:ALA:HB3	1:C:481:GLU:OE2	2.13	0.49
1:C:1285:GLU:HG2	1:C:1286:MET:HG2	1.93	0.49
1:C:2561:LEU:HD21	1:C:2601:ASP:HA	1.94	0.49
1:C:3798:LEU:HD11	1:C:3884:LEU:HD12	1.94	0.49
1:C:3839:CYS:SG	1:C:3881:THR:HB	2.52	0.49
1:C:4205:TRP:HZ2	1:C:4214:LYS:HE2	1.76	0.49
1:C:4973:HIS:HD2	1:C:4977:THR:HG23	1.77	0.49
1:E:495:ASN:CB	1:E:553:ARG:HH12	2.25	0.49
1:E:1259:ARG:HH12	1:E:1597:VAL:HA	1.77	0.49
1:E:2155:LEU:HD13	1:E:2188:ASN:HD22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3669:PHE:O	1:E:3672:ARG:HG2	2.13	0.49
1:E:4030:LEU:HD21	1:E:4040:ILE:HG12	1.93	0.49
1:E:4888:TYR:O	1:E:4892:ARG:HD3	2.12	0.49
1:G:54:ASN:O	1:G:56:GLN:N	2.46	0.49
1:G:494:LEU:HB3	1:G:519:VAL:HG22	1.95	0.49
1:A:116:MET:HE2	1:A:139:GLU:OE2	2.12	0.49
1:A:495:ASN:C	1:A:553:ARG:HH12	2.21	0.49
1:A:2139:PRO:HG3	1:A:3658:LYS:NZ	2.27	0.49
1:C:712:TYR:HB3	1:C:768:PHE:CE1	2.47	0.49
1:C:989:ALA:HB1	1:C:1035:ASN:HB3	1.93	0.49
1:C:4878:ASP:HA	1:E:4581:LYS:CB	2.43	0.49
1:E:1227:ALA:HA	1:E:1230:MET:HB2	1.95	0.49
1:G:716:PHE:H	1:G:738:LEU:HD13	1.77	0.49
1:G:1598:GLN:NE2	1:G:1643:GLU:OE2	2.45	0.49
1:G:1712:TYR:O	1:G:1716:ILE:HG12	2.12	0.49
1:G:2116:LEU:O	1:G:2120:MET:HG3	2.12	0.49
1:G:4574:ASN:HA	1:G:4577:LEU:HB2	1.92	0.49
1:A:462:GLU:HG3	1:A:3823:LYS:NZ	2.27	0.49
1:A:669:ASP:HB2	1:A:788:LYS:HG3	1.94	0.49
1:A:2821:TRP:CD1	1:A:2939:ARG:HA	2.48	0.49
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.46	0.49
1:A:3771:HIS:CE1	1:A:3812:VAL:HA	2.47	0.49
1:C:446:GLN:HG3	1:C:521:LEU:HD21	1.93	0.49
1:C:1163:THR:HG22	1:C:1168:VAL:HA	1.94	0.49
1:C:1687:SER:CB	2:D:90:ILE:HG12	2.42	0.49
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.78	0.49
1:C:3882:GLN:OE1	1:C:3957:VAL:HA	2.12	0.49
1:E:462:GLU:HG3	1:E:3823:LYS:NZ	2.28	0.49
1:E:4856:PHE:CE2	1:E:4860:ARG:NH1	2.81	0.49
1:E:4973:HIS:HD2	1:E:4977:THR:HG23	1.77	0.49
1:G:495:ASN:HB3	1:G:553:ARG:HH12	1.77	0.49
1:G:1581:LEU:HD13	1:G:1594:ARG:C	2.38	0.49
1:G:2742:THR:OG1	1:G:2811:GLU:OE1	2.28	0.49
1:G:4904:PRO:HB2	1:G:4910:GLU:HG3	1.93	0.49
2:H:87:HIS:HD2	2:H:88:PRO:HD2	1.78	0.49
1:A:291:LEU:HA	1:A:301:VAL:HA	1.95	0.49
1:A:1078:GLU:HB3	1:A:1081:TYR:CD2	2.48	0.49
1:A:1598:GLN:NE2	1:A:1643:GLU:OE2	2.45	0.49
1:C:49:LEU:HD21	1:C:191:VAL:HG23	1.95	0.49
1:C:4147:LEU:HD21	1:C:4163:PHE:HE2	1.78	0.49
1:E:495:ASN:HB3	1:E:553:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1598:GLN:NE2	1:E:1643:GLU:OE2	2.45	0.49
1:E:4554:TYR:HA	1:E:4557:ARG:NH1	2.28	0.49
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.13	0.49
1:G:49:LEU:HD21	1:G:191:VAL:HG23	1.95	0.49
1:G:2561:LEU:HD21	1:G:2601:ASP:HA	1.94	0.49
1:G:4977:THR:O	1:G:4981:GLU:N	2.45	0.49
1:G:5013:MET:HG3	1:G:5018:CYS:HB2	1.94	0.49
1:A:49:LEU:HD21	1:A:191:VAL:HG23	1.95	0.49
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.78	0.49
1:A:4967:TYR:HD2	1:A:4968:PHE:CE1	2.30	0.49
1:C:494:LEU:HB3	1:C:519:VAL:HG22	1.95	0.49
1:C:540:PHE:HA	1:C:543:ASN:HB2	1.94	0.49
1:C:1253:PRO:O	1:C:1254:HIS:HB2	2.13	0.49
1:C:1259:ARG:HH12	1:C:1597:VAL:HA	1.78	0.49
1:C:1581:LEU:HD13	1:C:1594:ARG:C	2.38	0.49
1:C:2532:ALA:HA	1:C:2550:LEU:HD22	1.94	0.49
1:C:3780:LEU:HD12	1:C:3828:PHE:CE1	2.48	0.49
1:C:4680:LYS:O	1:C:4685:GLY:N	2.44	0.49
1:C:4967:TYR:HD2	1:C:4968:PHE:CE1	2.30	0.49
1:E:494:LEU:HB3	1:E:519:VAL:HG22	1.95	0.49
1:E:1456:ASP:O	1:E:1457:TYR:HB2	2.13	0.49
1:E:3969:ILE:HG23	1:E:3977:GLN:HG2	1.95	0.49
1:G:1227:ALA:HA	1:G:1230:MET:HB2	1.94	0.49
1:G:4849:TYR:HA	1:G:4852:THR:HG22	1.95	0.49
1:A:274:LEU:HD12	1:A:278:GLN:NE2	2.27	0.49
1:A:283:ARG:HD2	1:A:290:TYR:CZ	2.48	0.49
1:A:701:GLY:O	1:A:1647:CYS:HB3	2.13	0.49
1:A:712:TYR:HB3	1:A:768:PHE:CE1	2.48	0.49
1:A:2326:CYS:O	1:A:2330:ARG:HG2	2.12	0.49
1:C:215:THR:CG2	1:C:273:HIS:HD2	2.26	0.49
1:C:828:GLU:O	1:C:840:VAL:HG23	2.12	0.49
1:C:931:THR:CB	1:C:988:LEU:HD22	2.43	0.49
1:C:2107:GLN:NE2	1:C:3680:ALA:O	2.46	0.49
1:C:2139:PRO:HG3	1:C:3658:LYS:NZ	2.28	0.49
1:C:3959:LYS:HG3	1:C:4022:ASP:OD2	2.13	0.49
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.93	0.49
1:C:4712:PRO:HG2	1:C:4718:LYS:HD2	1.95	0.49
1:C:4977:THR:O	1:C:4981:GLU:N	2.46	0.49
1:E:54:ASN:O	1:E:56:GLN:N	2.46	0.49
1:E:548:VAL:O	1:E:551:LEU:HB3	2.12	0.49
1:E:716:PHE:H	1:E:738:LEU:HD13	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.47	0.49
1:E:1253:PRO:O	1:E:1254:HIS:HB2	2.13	0.49
1:E:1581:LEU:HD13	1:E:1594:ARG:C	2.38	0.49
1:E:2107:GLN:NE2	1:E:3680:ALA:O	2.46	0.49
1:E:3805:LEU:O	1:E:3807:GLY:N	2.46	0.49
1:E:3882:GLN:OE1	1:E:3957:VAL:HA	2.12	0.49
1:E:4147:LEU:HD21	1:E:4163:PHE:HE2	1.77	0.49
1:G:701:GLY:O	1:G:1647:CYS:HB3	2.13	0.49
1:G:1078:GLU:HB3	1:G:1081:TYR:CD2	2.47	0.49
1:G:1456:ASP:O	1:G:1457:TYR:HB2	2.12	0.49
2:H:25:HIS:CD2	2:H:104:LEU:HD11	2.48	0.49
1:A:828:GLU:O	1:A:840:VAL:HG23	2.12	0.48
1:A:931:THR:CB	1:A:988:LEU:HD22	2.43	0.48
1:A:3767:GLN:NE2	1:A:3806:ASN:HB3	2.27	0.48
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.47	0.48
1:C:291:LEU:HA	1:C:301:VAL:HA	1.94	0.48
1:C:701:GLY:O	1:C:1647:CYS:HB3	2.13	0.48
1:C:2068:GLU:OE1	1:C:2068:GLU:N	2.46	0.48
1:C:3835:LEU:HD12	1:C:3836:MET:N	2.28	0.48
1:E:49:LEU:HD21	1:E:191:VAL:HG23	1.95	0.48
1:E:222:LEU:HD22	1:E:231:LEU:HD23	1.94	0.48
1:E:3647:HIS:O	1:E:3651:ASN:ND2	2.46	0.48
1:E:3771:HIS:CE1	1:E:3812:VAL:HA	2.48	0.48
1:E:3959:LYS:HG3	1:E:4022:ASP:OD2	2.13	0.48
1:E:4035:VAL:HG12	1:E:4036:VAL:N	2.28	0.48
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.47	0.48
1:G:2807:TRP:O	1:G:2811:GLU:HG2	2.13	0.48
1:G:4967:TYR:HD2	1:G:4968:PHE:CE1	2.31	0.48
1:A:403:MET:HE1	1:A:451:TYR:CG	2.48	0.48
1:A:495:ASN:HB3	1:A:553:ARG:HH12	1.77	0.48
1:A:3780:LEU:HD12	1:A:3828:PHE:CE1	2.48	0.48
1:A:4049:VAL:HG21	1:A:4159:ARG:HD3	1.94	0.48
1:A:4973:HIS:HD2	1:A:4977:THR:HG23	1.78	0.48
1:C:274:LEU:HD12	1:C:278:GLN:NE2	2.27	0.48
1:C:495:ASN:C	1:C:553:ARG:HH12	2.22	0.48
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	1.94	0.48
1:C:3713:LYS:O	1:C:3715:LYS:N	2.46	0.48
1:C:3805:LEU:HB2	1:C:3890:LEU:HD23	1.95	0.48
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.48	0.48
1:E:283:ARG:HD2	1:E:290:TYR:CZ	2.48	0.48
1:E:2532:ALA:HA	1:E:2550:LEU:HD22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.12	0.48
1:E:4713:SER:OG	1:E:4775:TYR:OH	2.31	0.48
1:G:4983:HIS:O	1:G:4985:LEU:N	2.46	0.48
1:A:597:HIS:NE2	1:A:598:LYS:NZ	2.61	0.48
1:A:2063:LEU:HD13	1:A:3661:TRP:CZ3	2.48	0.48
1:A:3987:ASP:OD1	1:G:162:LYS:NZ	2.46	0.48
1:A:4147:LEU:HD21	1:A:4163:PHE:HE2	1.77	0.48
1:A:4977:THR:O	1:A:4981:GLU:N	2.46	0.48
1:C:546:TRP:O	1:C:550:LYS:HG2	2.13	0.48
1:C:1111:PRO:HG3	1:C:1609:PRO:HD3	1.94	0.48
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.95	0.48
1:E:1951:LEU:HD22	1:E:2133:GLU:HG2	1.96	0.48
1:E:2821:TRP:CD1	1:E:2939:ARG:HA	2.48	0.48
1:E:4680:LYS:O	1:E:4685:GLY:N	2.43	0.48
1:G:256:ALA:HB3	1:G:481:GLU:OE2	2.13	0.48
1:G:299:LEU:HD22	1:G:378:LEU:HG	1.95	0.48
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.46	0.48
1:G:1089:TYR:HE2	1:G:1091:GLU:OE2	1.95	0.48
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	1.95	0.48
1:G:2288:LEU:O	1:G:3849:ARG:HD3	2.13	0.48
1:A:530:ILE:HG22	1:A:530:ILE:O	2.14	0.48
1:A:674:PHE:O	2:B:40:ARG:NH1	2.45	0.48
1:A:1293:LEU:HD11	1:A:1598:GLN:HG2	1.94	0.48
1:A:3965:LEU:HD23	1:A:4026:MET:HE1	1.96	0.48
1:C:3669:PHE:O	1:C:3672:ARG:HG2	2.14	0.48
1:C:3835:LEU:CD1	1:C:3884:LEU:HD13	2.42	0.48
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.13	0.48
1:E:102:LEU:HB2	1:E:105:HIS:CE1	2.49	0.48
1:E:291:LEU:HA	1:E:301:VAL:HA	1.94	0.48
1:E:350:HIS:NE2	1:E:352:ALA:HB3	2.27	0.48
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.96	0.48
1:E:1849:LEU:HD13	1:E:1854:PHE:CD2	2.48	0.48
1:G:283:ARG:HD2	1:G:290:TYR:CZ	2.48	0.48
1:G:291:LEU:O	1:G:312:THR:OG1	2.23	0.48
1:G:2143:THR:N	1:G:3651:ASN:OD1	2.47	0.48
1:G:3962:PHE:CE1	1:G:4023:MET:HG3	2.49	0.48
2:H:37:ASP:OD1	2:H:38:SER:N	2.45	0.48
1:A:3959:LYS:HG3	1:A:4022:ASP:OD2	2.13	0.48
1:A:4554:TYR:HA	1:A:4557:ARG:NH1	2.28	0.48
1:A:4827:LEU:HD11	1:G:4843:LEU:HD11	1.93	0.48
1:C:283:ARG:HD2	1:C:290:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:597:HIS:HB2	1:C:1665:HIS:CD2	2.47	0.48
1:C:2063:LEU:HD13	1:C:3661:TRP:CZ3	2.49	0.48
1:E:256:ALA:HB3	1:E:481:GLU:OE2	2.14	0.48
1:E:1293:LEU:HD11	1:E:1598:GLN:HG2	1.94	0.48
1:E:3839:CYS:SG	1:E:3881:THR:HB	2.52	0.48
1:E:4640:GLU:HB3	1:E:4641:PRO:HD3	1.95	0.48
1:G:931:THR:CB	1:G:988:LEU:HD22	2.43	0.48
1:G:1457:TYR:CZ	1:G:1553:PHE:CE1	3.02	0.48
1:G:1710:GLY:O	1:G:1714:LEU:HG	2.13	0.48
1:G:3786:CYS:SG	1:G:3793:MET:HE3	2.54	0.48
1:G:3969:ILE:O	1:G:3969:ILE:HG22	2.13	0.48
1:G:4562:LEU:HD21	1:G:4656:LEU:HD12	1.95	0.48
1:A:42:PHE:CE1	1:A:114:SER:HB2	2.49	0.48
1:A:2112:GLN:O	1:A:2113:SER:OG	2.24	0.48
1:A:3835:LEU:CD1	1:A:3884:LEU:HD13	2.42	0.48
1:A:3958:ALA:CB	1:A:4019:LEU:HD11	2.40	0.48
1:A:4680:LYS:O	1:A:4685:GLY:N	2.43	0.48
1:A:4713:SER:OG	1:A:4775:TYR:OH	2.31	0.48
1:C:222:LEU:HD22	1:C:231:LEU:HD23	1.95	0.48
1:C:403:MET:HE1	1:C:451:TYR:CG	2.49	0.48
1:C:2124:LEU:HD21	1:C:3677:LEU:HD21	1.96	0.48
1:C:3884:LEU:O	1:C:3887:PHE:HB3	2.14	0.48
1:C:3969:ILE:HG23	1:C:3977:GLN:HG2	1.94	0.48
1:E:546:TRP:O	1:E:550:LYS:HG2	2.13	0.48
1:E:597:HIS:NE2	1:E:598:LYS:NZ	2.61	0.48
1:E:931:THR:CB	1:E:988:LEU:HD22	2.43	0.48
1:E:1243:PRO:CD	1:E:1458:HIS:HB3	2.38	0.48
1:E:3884:LEU:O	1:E:3887:PHE:HB3	2.14	0.48
1:E:4933:GLN:O	1:E:4937:ILE:HG12	2.14	0.48
2:F:87:HIS:HD2	2:F:88:PRO:HD2	1.78	0.48
1:G:215:THR:CG2	1:G:273:HIS:HD2	2.27	0.48
1:G:222:LEU:HD22	1:G:231:LEU:HD23	1.95	0.48
1:G:274:LEU:HD12	1:G:278:GLN:NE2	2.27	0.48
1:G:645:ARG:NH1	1:G:824:GLU:OE2	2.47	0.48
1:G:712:TYR:HB3	1:G:768:PHE:CE1	2.48	0.48
1:G:1259:ARG:HH12	1:G:1597:VAL:HA	1.77	0.48
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.95	0.48
1:G:4705:VAL:HG22	1:G:4711:PHE:HD1	1.77	0.48
2:H:25:HIS:CG	2:H:40:ARG:HE	2.30	0.48
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.94	0.48
1:A:3969:ILE:HG23	1:A:3977:GLN:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4041:ALA:O	1:A:4044:MET:HB3	2.14	0.48
1:A:4235:VAL:HG11	1:A:5019:TRP:HH2	1.79	0.48
1:C:224:HIS:HE1	1:C:386:ASP:HA	1.79	0.48
1:C:308:HIS:CE1	1:C:311:ALA:HB2	2.49	0.48
1:C:495:ASN:HB3	1:C:553:ARG:HH12	1.77	0.48
1:C:530:ILE:HG22	1:C:530:ILE:O	2.13	0.48
1:C:1227:ALA:HA	1:C:1230:MET:HB2	1.94	0.48
1:C:1671:ARG:NH1	1:C:1713:ASP:OD2	2.47	0.48
1:C:1951:LEU:HD22	1:C:2133:GLU:HG2	1.95	0.48
1:C:2155:LEU:HD13	1:C:2188:ASN:HD22	1.77	0.48
1:C:2821:TRP:CD1	1:C:2939:ARG:HA	2.47	0.48
1:C:3767:GLN:NE2	1:C:3806:ASN:HB3	2.28	0.48
1:C:4041:ALA:O	1:C:4044:MET:HB3	2.14	0.48
1:E:2771:ILE:HG23	1:E:2852:ARG:HB2	1.95	0.48
1:E:3780:LEU:HD12	1:E:3828:PHE:CE1	2.48	0.48
1:E:4703:ARG:O	1:E:4706:LEU:HG	2.14	0.48
1:E:4977:THR:O	1:E:4981:GLU:N	2.45	0.48
1:G:20:VAL:HG12	1:G:204:PRO:HA	1.95	0.48
1:G:415:ILE:HG23	1:G:493:ARG:HD2	1.96	0.48
1:G:1253:PRO:O	1:G:1254:HIS:HB2	2.14	0.48
1:G:2124:LEU:HG	1:G:3673:MET:HE3	1.95	0.48
1:G:4973:HIS:HD2	1:G:4977:THR:HG23	1.78	0.48
1:A:76:ARG:NH2	1:C:3936:TYR:HD1	2.10	0.48
1:A:308:HIS:CE1	1:A:311:ALA:HB2	2.49	0.48
1:A:456:SER:HB2	1:A:459:LEU:HD13	1.95	0.48
1:A:2068:GLU:O	1:A:2071:ARG:HB2	2.14	0.48
1:A:2272:PRO:O	1:A:2275:VAL:HB	2.14	0.48
1:A:3805:LEU:O	1:A:3807:GLY:N	2.47	0.48
1:A:3936:TYR:HD1	1:G:76:ARG:NH2	2.10	0.48
1:C:42:PHE:CE1	1:C:114:SER:HB2	2.49	0.48
1:C:3699:HIS:HD2	1:C:3773:ARG:HA	1.79	0.48
1:C:4772:ASP:OD1	1:C:4773:VAL:N	2.47	0.48
1:E:215:THR:CG2	1:E:273:HIS:HD2	2.26	0.48
1:E:667:MET:HG3	1:E:743:VAL:HG22	1.95	0.48
1:E:701:GLY:O	1:E:1647:CYS:HB3	2.13	0.48
1:E:1958:LEU:HD11	1:E:3657:TYR:HE2	1.78	0.48
1:E:2498:HIS:O	1:E:2501:SER:OG	2.30	0.48
1:G:2068:GLU:O	1:G:2071:ARG:HB2	2.13	0.48
1:G:2161:GLN:O	1:G:2164:SER:OG	2.16	0.48
1:G:2272:PRO:O	1:G:2275:VAL:HB	2.14	0.48
1:G:3998:HIS:O	1:G:4002:LYS:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4791:TYR:O	1:G:4795:TYR:N	2.45	0.48
1:G:4857:ASN:O	1:G:4859:PHE:N	2.46	0.48
1:A:1581:LEU:HD13	1:A:1594:ARG:C	2.38	0.48
1:A:1723:ALA:HB1	1:A:1775:HIS:CD2	2.43	0.48
1:A:1958:LEU:HD11	1:A:3657:TYR:HE2	1.79	0.48
1:A:2354:VAL:O	1:A:2358:ILE:HG13	2.14	0.48
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	1.95	0.48
1:A:3674:ILE:HD11	1:A:3728:ILE:HG22	1.95	0.48
1:A:3699:HIS:HD2	1:A:3773:ARG:HA	1.79	0.48
1:A:3902:TYR:O	1:A:3906:GLN:N	2.46	0.48
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.94	0.48
1:C:2068:GLU:O	1:C:2071:ARG:HB2	2.14	0.48
1:C:4033:GLY:O	1:C:4189:ARG:NH2	2.37	0.48
1:E:299:LEU:HD22	1:E:378:LEU:HG	1.95	0.48
1:E:540:PHE:HA	1:E:543:ASN:HB2	1.96	0.48
1:E:1078:GLU:HB3	1:E:1081:TYR:CD2	2.48	0.48
1:E:1961:PHE:HZ	1:E:2063:LEU:HD23	1.79	0.48
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	1.95	0.48
1:E:3835:LEU:HD12	1:E:3836:MET:N	2.28	0.48
1:E:4934:GLY:HA3	1:G:4937:ILE:CD1	2.44	0.48
1:G:403:MET:HE1	1:G:451:TYR:CG	2.49	0.48
1:G:495:ASN:C	1:G:553:ARG:HH12	2.22	0.48
1:G:546:TRP:O	1:G:550:LYS:HG2	2.14	0.48
1:G:3817:LEU:HD11	1:G:3821:LYS:HZ1	1.76	0.48
1:G:4051:SER:OG	1:G:4054:ASN:HB3	2.14	0.48
1:G:5011:TRP:O	1:G:5015:GLN:HG2	2.14	0.48
1:A:150:MET:HG2	1:A:171:LEU:CD2	2.44	0.48
1:A:236:ALA:HA	1:A:242:ARG:HH11	1.79	0.48
1:A:597:HIS:HB2	1:A:1665:HIS:CD2	2.48	0.48
1:A:2107:GLN:NE2	1:A:3680:ALA:O	2.46	0.48
1:A:4118:ASP:HB2	1:A:4122:MET:HB2	1.94	0.48
1:C:556:ALA:HB3	1:C:560:ILE:HD11	1.96	0.48
1:C:1723:ALA:HB1	1:C:1775:HIS:CD2	2.43	0.48
1:C:2771:ILE:HG23	1:C:2852:ARG:HB2	1.95	0.48
1:C:3722:TYR:CZ	1:C:3782:MET:HG3	2.49	0.48
2:D:38:SER:HB3	2:D:41:ASP:OD2	2.14	0.48
1:E:308:HIS:CE1	1:E:311:ALA:HB2	2.49	0.48
1:E:403:MET:HE1	1:E:451:TYR:CG	2.49	0.48
1:E:415:ILE:HG23	1:E:493:ARG:HD2	1.96	0.48
1:E:2354:VAL:O	1:E:2358:ILE:HG13	2.14	0.48
1:E:3958:ALA:CB	1:E:4019:LEU:HD11	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:15:ARG:N	1:G:18:ASP:OD2	2.47	0.48
1:G:291:LEU:HA	1:G:301:VAL:HA	1.95	0.48
1:G:597:HIS:NE2	1:G:598:LYS:NZ	2.61	0.48
1:G:1100:MET:O	1:G:1125:ASN:HA	2.14	0.48
1:A:494:LEU:HB3	1:A:519:VAL:HG22	1.96	0.47
1:A:835:ARG:NH2	1:A:1093:GLU:OE2	2.43	0.47
1:A:2116:LEU:O	1:A:2120:MET:HG3	2.14	0.47
1:A:3923:LEU:HD12	1:A:3961:VAL:HG12	1.96	0.47
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.14	0.47
2:B:38:SER:HB3	2:B:41:ASP:OD2	2.14	0.47
1:C:162:LYS:NZ	1:E:3987:ASP:OD1	2.46	0.47
1:C:350:HIS:NE2	1:C:352:ALA:HB3	2.29	0.47
1:C:597:HIS:NE2	1:C:598:LYS:NZ	2.61	0.47
1:C:645:ARG:NH1	1:C:824:GLU:OE2	2.47	0.47
1:C:2116:LEU:O	1:C:2120:MET:HG3	2.14	0.47
1:C:3902:TYR:O	1:C:3906:GLN:N	2.46	0.47
1:C:3923:LEU:HD12	1:C:3961:VAL:HG12	1.95	0.47
1:E:17:ASP:HB2	1:E:98:HIS:CE1	2.49	0.47
1:E:909:ASN:O	1:E:912:SER:OG	2.27	0.47
1:G:2183:GLY:O	1:G:2187:ASN:ND2	2.47	0.47
1:G:4901:ILE:HG21	1:G:4913:ARG:NH2	2.29	0.47
1:A:3884:LEU:O	1:A:3887:PHE:HB3	2.14	0.47
1:A:3989:VAL:O	1:A:3993:LEU:HG	2.14	0.47
1:C:669:ASP:CG	1:C:790:ARG:HG2	2.39	0.47
1:C:3989:VAL:O	1:C:3993:LEU:HG	2.14	0.47
1:C:4035:VAL:HG12	1:C:4036:VAL:N	2.28	0.47
1:E:12:GLN:O	1:E:165:VAL:HG23	2.14	0.47
1:E:530:ILE:O	1:E:530:ILE:HG22	2.13	0.47
1:E:669:ASP:CG	1:E:790:ARG:HG2	2.39	0.47
1:E:2116:LEU:O	1:E:2120:MET:HG3	2.14	0.47
1:E:3699:HIS:HD2	1:E:3773:ARG:HA	1.79	0.47
1:E:3713:LYS:O	1:E:3715:LYS:N	2.45	0.47
1:E:3817:LEU:HD13	1:E:3899:PHE:HD1	1.78	0.47
1:E:3965:LEU:HD23	1:E:4026:MET:HE1	1.95	0.47
1:E:4772:ASP:OD1	1:E:4773:VAL:N	2.47	0.47
1:G:116:MET:HE2	1:G:139:GLU:OE2	2.13	0.47
1:G:224:HIS:HE1	1:G:386:ASP:HA	1.79	0.47
1:G:2145:SER:HB3	1:G:3647:HIS:CD2	2.49	0.47
1:G:4984:ASN:HD21	1:G:4987:ASN:ND2	2.12	0.47
1:A:350:HIS:NE2	1:A:352:ALA:HB3	2.29	0.47
1:A:567:VAL:O	1:A:571:SER:OG	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2068:GLU:OE1	1:A:2068:GLU:N	2.45	0.47
1:A:4695:ASP:OD1	1:A:4696:ASP:N	2.47	0.47
1:C:15:ARG:N	1:C:18:ASP:OD2	2.47	0.47
1:C:76:ARG:NH2	1:E:3936:TYR:HD1	2.10	0.47
1:C:415:ILE:HG23	1:C:493:ARG:HD2	1.97	0.47
1:C:1961:PHE:HZ	1:C:2063:LEU:HD23	1.79	0.47
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	1.97	0.47
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.46	0.47
1:E:495:ASN:C	1:E:553:ARG:HH12	2.21	0.47
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.97	0.47
1:E:2063:LEU:HD13	1:E:3661:TRP:CZ3	2.49	0.47
1:E:2272:PRO:O	1:E:2275:VAL:HB	2.14	0.47
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.35	0.47
1:G:17:ASP:HB2	1:G:98:HIS:CE1	2.49	0.47
1:G:462:GLU:HG3	1:G:3823:LYS:NZ	2.29	0.47
1:G:667:MET:HG3	1:G:743:VAL:HG22	1.95	0.47
1:A:215:THR:CG2	1:A:273:HIS:HD2	2.27	0.47
1:A:224:HIS:HE1	1:A:386:ASP:HA	1.79	0.47
1:A:516:LYS:HG3	1:A:555:GLU:OE2	2.14	0.47
1:A:669:ASP:CG	1:A:790:ARG:HG2	2.39	0.47
1:A:1253:PRO:O	1:A:1254:HIS:HB2	2.14	0.47
1:A:1586:ASN:O	1:A:1588:ALA:N	2.46	0.47
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.96	0.47
1:A:2771:ILE:HG23	1:A:2852:ARG:HB2	1.96	0.47
1:A:3722:TYR:CZ	1:A:3782:MET:HG3	2.49	0.47
1:A:3835:LEU:HD12	1:A:3836:MET:N	2.29	0.47
1:C:299:LEU:HD22	1:C:378:LEU:HG	1.95	0.47
1:C:3992:PHE:HB3	1:C:3996:PHE:CE2	2.49	0.47
1:E:274:LEU:HD12	1:E:278:GLN:NE2	2.27	0.47
1:E:628:GLY:C	1:E:630:GLU:H	2.23	0.47
1:E:2124:LEU:HD21	1:E:3677:LEU:HD21	1.97	0.47
1:E:2354:VAL:HB	1:E:2453:ILE:HD11	1.97	0.47
1:E:4041:ALA:O	1:E:4044:MET:HB3	2.14	0.47
1:G:308:HIS:CE1	1:G:311:ALA:HB2	2.49	0.47
1:G:530:ILE:O	1:G:530:ILE:HG22	2.13	0.47
1:G:1586:ASN:O	1:G:1588:ALA:N	2.46	0.47
1:G:2142:TYR:CD2	1:G:2197:LEU:HD12	2.48	0.47
1:G:3993:LEU:HA	1:G:3996:PHE:HB2	1.96	0.47
1:G:4164:LEU:HD23	1:G:4168:GLU:OE2	2.14	0.47
1:G:4702:ASP:HA	1:G:4778:TRP:HE1	1.79	0.47
1:A:462:GLU:HG3	1:A:3823:LYS:HZ3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:645:ARG:NH1	1:A:824:GLU:OE2	2.47	0.47
1:A:1100:MET:O	1:A:1125:ASN:HA	2.14	0.47
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.15	0.47
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.50	0.47
1:A:3992:PHE:HB3	1:A:3996:PHE:CE2	2.49	0.47
1:A:4703:ARG:O	1:A:4706:LEU:HG	2.14	0.47
1:C:572:PRO:HG3	1:C:609:CYS:SG	2.55	0.47
1:C:1100:MET:O	1:C:1125:ASN:HA	2.14	0.47
1:C:1699:GLU:CD	1:C:1810:LYS:HZ1	2.16	0.47
1:C:1958:LEU:HD11	1:C:3657:TYR:HE2	1.79	0.47
1:C:4242:ILE:HG12	1:C:4993:MET:SD	2.54	0.47
1:E:149:THR:OG1	1:E:172:VAL:HB	2.15	0.47
1:E:1100:MET:O	1:E:1125:ASN:HA	2.14	0.47
1:E:2068:GLU:OE1	1:E:2068:GLU:N	2.45	0.47
1:E:4235:VAL:HG11	1:E:5019:TRP:HH2	1.79	0.47
1:G:669:ASP:CG	1:G:790:ARG:HG2	2.39	0.47
1:G:1254:HIS:HD2	1:G:1280:GLN:N	2.13	0.47
1:G:2868:SER:O	1:G:2872:GLN:N	2.38	0.47
1:G:4240:ASP:CG	1:G:4675:LYS:HZ3	2.22	0.47
1:G:4695:ASP:OD1	1:G:4696:ASP:N	2.46	0.47
2:H:25:HIS:CE1	2:H:45:PRO:HG3	2.49	0.47
2:H:49:MET:N	2:H:54:GLU:OE2	2.48	0.47
1:A:2142:TYR:CD2	1:A:2197:LEU:HD12	2.50	0.47
1:A:2437:ALA:HB3	1:A:2508:ARG:HH21	1.80	0.47
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	1.97	0.47
1:A:4712:PRO:HG2	1:A:4718:LYS:HD2	1.97	0.47
1:C:17:ASP:HB2	1:C:98:HIS:CE1	2.49	0.47
1:C:667:MET:HG3	1:C:743:VAL:HG22	1.95	0.47
1:C:1717:SER:HA	1:C:1721:GLU:HB2	1.97	0.47
1:C:4235:VAL:HG11	1:C:5019:TRP:HH2	1.80	0.47
1:C:4695:ASP:OD1	1:C:4696:ASP:N	2.47	0.47
1:E:645:ARG:NH1	1:E:824:GLU:OE2	2.47	0.47
1:E:1438:ARG:HE	1:E:1440:PHE:HE1	1.63	0.47
1:E:3992:PHE:HB3	1:E:3996:PHE:CE2	2.49	0.47
1:G:572:PRO:HG3	1:G:609:CYS:SG	2.55	0.47
1:G:650:VAL:N	1:G:777:PHE:O	2.47	0.47
1:G:3986:TRP:O	1:G:3990:VAL:HG23	2.15	0.47
1:G:4049:VAL:HA	1:G:4052:SER:HB3	1.95	0.47
1:A:103:TYR:CE2	1:A:163:VAL:HA	2.50	0.47
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.79	0.47
1:A:667:MET:HG3	1:A:743:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1254:HIS:HD2	1:A:1280:GLN:N	2.13	0.47
1:A:3669:PHE:O	1:A:3672:ARG:HG2	2.15	0.47
1:A:3805:LEU:HB2	1:A:3890:LEU:HD23	1.96	0.47
1:A:4035:VAL:HG12	1:A:4036:VAL:N	2.28	0.47
1:A:4580:TYR:HE1	1:A:4631:PHE:HB2	1.80	0.47
1:A:4940:PHE:HZ	1:G:4931:ILE:HG23	1.80	0.47
1:C:150:MET:HG2	1:C:171:LEU:CD2	2.44	0.47
1:C:206:CYS:HB3	1:C:271:GLY:HA3	1.97	0.47
1:C:898:ASP:OD2	1:C:900:ASN:HB2	2.15	0.47
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.97	0.47
1:C:2165:LEU:HD13	1:C:2174:GLU:HB2	1.97	0.47
1:C:2272:PRO:O	1:C:2275:VAL:HB	2.14	0.47
1:C:2354:VAL:HB	1:C:2453:ILE:HD11	1.97	0.47
1:C:3965:LEU:HD23	1:C:4026:MET:HE1	1.95	0.47
1:C:4554:TYR:HA	1:C:4557:ARG:NH1	2.29	0.47
1:C:4703:ARG:O	1:C:4706:LEU:HG	2.14	0.47
1:C:4934:GLY:HA3	1:E:4937:ILE:HD13	1.94	0.47
1:C:4942:GLU:HG3	1:E:4944:ARG:HD2	1.97	0.47
1:E:421:PHE:HE2	1:E:436:LEU:HD21	1.80	0.47
1:E:516:LYS:HG3	1:E:555:GLU:OE2	2.14	0.47
1:E:1293:LEU:HB3	1:E:1584:ARG:HG2	1.95	0.47
1:E:3674:ILE:HD11	1:E:3728:ILE:HG22	1.96	0.47
1:E:3829:PHE:CD2	1:E:3915:ILE:HD11	2.50	0.47
1:E:3989:VAL:O	1:E:3993:LEU:HG	2.14	0.47
1:G:236:ALA:HA	1:G:242:ARG:HH11	1.79	0.47
1:G:462:GLU:HG3	1:G:3823:LYS:HZ3	1.79	0.47
1:G:516:LYS:HG3	1:G:555:GLU:OE2	2.14	0.47
1:G:1076:ARG:HG2	1:G:1077:ALA:O	2.15	0.47
1:G:1453:VAL:HG12	1:G:1454:THR:O	2.15	0.47
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	1.95	0.47
1:G:2862:LEU:HD21	1:G:2929:PHE:HB2	1.96	0.47
1:G:3661:TRP:O	1:G:3664:THR:HG23	2.14	0.47
1:G:3805:LEU:HB2	1:G:3890:LEU:HD23	1.96	0.47
1:G:4235:VAL:HG22	1:G:4992:LEU:HD11	1.97	0.47
1:G:4834:GLY:HA2	1:G:4837:LEU:HB3	1.97	0.47
1:G:4931:ILE:O	1:G:4935:LEU:N	2.45	0.47
1:A:195:PHE:HD1	1:C:2358:ILE:CG2	2.27	0.47
1:A:2498:HIS:O	1:A:2501:SER:OG	2.30	0.47
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.80	0.47
1:C:462:GLU:HG3	1:C:3823:LYS:NZ	2.28	0.47
1:C:567:VAL:O	1:C:571:SER:OG	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3829:PHE:CD2	1:C:3915:ILE:HD11	2.50	0.47
1:C:4044:MET:HG3	1:C:4150:LEU:HD11	1.96	0.47
1:C:4713:SER:OG	1:C:4775:TYR:OH	2.32	0.47
1:E:214:VAL:HG21	1:E:390:LEU:HD12	1.97	0.47
1:E:224:HIS:HE1	1:E:386:ASP:HA	1.79	0.47
1:E:556:ALA:HB3	1:E:560:ILE:HD11	1.97	0.47
1:E:3722:TYR:CZ	1:E:3782:MET:HG3	2.49	0.47
1:E:4044:MET:HG3	1:E:4150:LEU:HD11	1.96	0.47
1:G:4923:PHE:O	1:G:4928:LEU:HG	2.15	0.47
1:G:4968:PHE:CE2	1:G:4978:HIS:CD2	3.03	0.47
1:A:149:THR:OG1	1:A:172:VAL:HB	2.14	0.47
1:A:540:PHE:HA	1:A:543:ASN:HB2	1.96	0.47
1:A:2735:PHE:HD2	1:A:2891:LYS:HD2	1.79	0.47
1:A:2902:HIS:H	1:A:2905:LEU:HD12	1.80	0.47
1:A:3998:HIS:O	1:A:4002:LYS:HG2	2.15	0.47
1:A:4242:ILE:HG12	1:A:4993:MET:SD	2.54	0.47
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.19	0.47
1:C:4036:VAL:HG12	1:C:4037:ASN:N	2.30	0.47
1:E:150:MET:HG2	1:E:171:LEU:CD2	2.45	0.47
1:E:3923:LEU:HD12	1:E:3961:VAL:HG12	1.96	0.47
1:E:4712:PRO:HG2	1:E:4718:LYS:HD2	1.97	0.47
2:F:38:SER:HB3	2:F:41:ASP:OD2	2.14	0.47
1:G:350:HIS:NE2	1:G:352:ALA:HB3	2.29	0.47
1:G:2755:ILE:HD13	1:G:2810:LYS:HG2	1.97	0.47
1:G:4684:ASP:OD2	1:G:4686:LEU:HD23	2.14	0.47
1:A:299:LEU:HD22	1:A:378:LEU:HG	1.96	0.47
1:A:556:ALA:HB3	1:A:560:ILE:HD11	1.97	0.47
1:A:1076:ARG:HG2	1:A:1077:ALA:O	2.15	0.47
1:A:1717:SER:HA	1:A:1721:GLU:HB2	1.97	0.47
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.97	0.47
1:A:1951:LEU:HD22	1:A:2133:GLU:HG2	1.96	0.47
1:A:1961:PHE:HZ	1:A:2063:LEU:HD23	1.79	0.47
1:A:2189:LYS:HD2	1:A:2192:TYR:HD2	1.79	0.47
1:A:2358:ILE:CG2	1:G:195:PHE:HD1	2.27	0.47
1:C:456:SER:HB2	1:C:459:LEU:HD13	1.95	0.47
1:E:42:PHE:CE1	1:E:114:SER:HB2	2.49	0.47
1:E:1717:SER:HA	1:E:1721:GLU:HB2	1.97	0.47
1:G:58:VAL:HG22	1:G:305:CYS:HA	1.96	0.47
1:G:150:MET:HG2	1:G:171:LEU:CD2	2.45	0.47
1:G:668:VAL:HG12	1:G:740:PRO:HA	1.97	0.47
1:G:1293:LEU:HB3	1:G:1584:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1961:PHE:CZ	1:G:2063:LEU:HD23	2.50	0.47
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.50	0.47
1:A:58:VAL:HG22	1:A:305:CYS:HA	1.97	0.46
1:A:572:PRO:HG3	1:A:609:CYS:SG	2.55	0.46
1:A:628:GLY:C	1:A:630:GLU:H	2.23	0.46
1:A:2238:TYR:O	1:A:2242:ILE:HG23	2.15	0.46
1:A:2354:VAL:HB	1:A:2453:ILE:HD11	1.97	0.46
1:A:2865:VAL:O	1:A:2928:LYS:NZ	2.38	0.46
1:A:3817:LEU:HD11	1:A:3821:LYS:HZ2	1.78	0.46
1:C:58:VAL:HG22	1:C:305:CYS:HA	1.97	0.46
1:C:102:LEU:HB2	1:C:105:HIS:CE1	2.50	0.46
1:C:149:THR:OG1	1:C:172:VAL:HB	2.14	0.46
1:C:236:ALA:HA	1:C:242:ARG:HH11	1.79	0.46
1:C:1093:GLU:HA	1:C:1148:VAL:HG22	1.97	0.46
1:C:1100:MET:HB3	1:C:1102:VAL:HG23	1.97	0.46
1:C:1230:MET:SD	1:C:1828:ASP:HA	2.55	0.46
1:C:1438:ARG:HE	1:C:1440:PHE:HE1	1.63	0.46
1:C:4661:TYR:CE1	1:C:4665:LYS:HB2	2.50	0.46
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.21	0.46
1:E:898:ASP:OD2	1:E:900:ASN:HB2	2.15	0.46
1:E:1433:TYR:CE1	1:E:1578:ALA:HB3	2.51	0.46
1:E:2142:TYR:CD2	1:E:2197:LEU:HD12	2.50	0.46
1:G:149:THR:OG1	1:G:172:VAL:HB	2.15	0.46
1:G:628:GLY:C	1:G:630:GLU:H	2.23	0.46
1:G:2354:VAL:O	1:G:2358:ILE:HG13	2.14	0.46
1:G:3980:LEU:O	1:G:3983:SER:OG	2.27	0.46
1:G:4150:LEU:O	1:G:4154:VAL:HG12	2.15	0.46
1:G:4957:LYS:HG2	1:G:4958:CYS:O	2.15	0.46
1:A:17:ASP:HB2	1:A:98:HIS:CE1	2.49	0.46
1:A:1671:ARG:NH1	1:A:1713:ASP:OD2	2.48	0.46
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.97	0.46
1:E:1100:MET:HB3	1:E:1102:VAL:HG23	1.98	0.46
1:E:1687:SER:HB3	2:F:90:ILE:HG12	1.97	0.46
1:E:1770:SER:OG	1:E:1771:LEU:N	2.40	0.46
1:E:2507:ASP:CG	1:E:2559:LEU:HD22	2.40	0.46
1:E:4661:TYR:CE1	1:E:4665:LYS:HB2	2.51	0.46
1:G:102:LEU:HB2	1:G:105:HIS:CE1	2.50	0.46
1:G:170:ILE:HD12	1:G:197:GLN:HB2	1.97	0.46
1:G:421:PHE:HE2	1:G:436:LEU:HD21	1.80	0.46
1:G:839:LEU:HD13	1:G:1075:PHE:CG	2.51	0.46
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2507:ASP:CG	1:G:2559:LEU:HD22	2.40	0.46
1:G:4172:GLU:HA	1:G:4175:ARG:HH12	1.79	0.46
1:G:4653:VAL:HA	1:G:4656:LEU:HG	1.97	0.46
1:A:546:TRP:O	1:A:550:LYS:HG2	2.14	0.46
1:A:2742:THR:OG1	1:A:2811:GLU:OE1	2.28	0.46
1:A:4036:VAL:HG12	1:A:4037:ASN:N	2.30	0.46
1:C:34:LYS:N	1:C:53:SER:OG	2.48	0.46
1:C:681:HIS:H	1:C:784:SER:HB3	1.81	0.46
1:C:2354:VAL:O	1:C:2358:ILE:HG13	2.15	0.46
1:C:3998:HIS:O	1:C:4002:LYS:HG2	2.16	0.46
1:E:283:ARG:NE	1:E:288:GLY:O	2.48	0.46
1:E:456:SER:HB2	1:E:459:LEU:HD13	1.96	0.46
1:E:839:LEU:HD13	1:E:1075:PHE:CG	2.51	0.46
1:E:1439:VAL:HG12	1:E:1441:ALA:H	1.80	0.46
1:E:2165:LEU:HD13	1:E:2174:GLU:HB2	1.97	0.46
1:E:2735:PHE:HD2	1:E:2891:LYS:HD2	1.79	0.46
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.50	0.46
1:E:3798:LEU:HD11	1:E:3884:LEU:HD12	1.97	0.46
1:E:3998:HIS:O	1:E:4002:LYS:HG2	2.15	0.46
1:E:4036:VAL:HG12	1:E:4037:ASN:N	2.30	0.46
1:E:5013:MET:HG3	1:E:5018:CYS:HB2	1.97	0.46
1:G:42:PHE:CE1	1:G:114:SER:HB2	2.49	0.46
1:G:556:ALA:HB3	1:G:560:ILE:HD11	1.97	0.46
1:G:993:HIS:CE1	1:G:1020:ARG:HB3	2.48	0.46
1:G:2165:LEU:HD13	1:G:2174:GLU:HB2	1.97	0.46
1:G:2189:LYS:HD2	1:G:2192:TYR:HD2	1.80	0.46
1:G:2498:HIS:O	1:G:2501:SER:OG	2.30	0.46
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.51	0.46
1:G:3951:PHE:CZ	1:G:3955:MET:HE2	2.51	0.46
1:G:4782:VAL:O	1:G:4785:THR:OG1	2.30	0.46
1:A:283:ARG:NE	1:A:288:GLY:O	2.49	0.46
1:A:1230:MET:SD	1:A:1828:ASP:HA	2.55	0.46
1:A:2165:LEU:HD13	1:A:2174:GLU:HB2	1.97	0.46
1:A:4772:ASP:OD1	1:A:4773:VAL:N	2.47	0.46
1:C:588:SER:O	1:C:592:LYS:HG3	2.16	0.46
1:C:1076:ARG:HG2	1:C:1077:ALA:O	2.15	0.46
1:C:1453:VAL:HG12	1:C:1454:THR:O	2.15	0.46
1:C:2133:GLU:HA	1:C:2136:ARG:HE	1.80	0.46
1:E:1230:MET:SD	1:E:1828:ASP:HA	2.55	0.46
1:E:1671:ARG:NH1	1:E:1713:ASP:OD2	2.48	0.46
1:E:2238:TYR:O	1:E:2242:ILE:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:55:VAL:HG23	2:F:60:GLU:HB2	1.98	0.46
1:G:4047:MET:HG3	1:G:4048:LEU:N	2.30	0.46
1:A:34:LYS:N	1:A:53:SER:OG	2.48	0.46
1:A:162:LYS:NZ	1:C:3987:ASP:OD1	2.49	0.46
1:A:473:ASN:O	1:A:477:LEU:HG	2.16	0.46
1:A:4968:PHE:CE2	1:A:4978:HIS:CD2	3.03	0.46
1:C:125:ARG:HG2	1:C:134:ASP:OD2	2.16	0.46
1:C:214:VAL:HG21	1:C:390:LEU:HD12	1.97	0.46
1:C:3674:ILE:HD11	1:C:3728:ILE:HG22	1.96	0.46
1:C:4149:ASN:OD1	1:C:4153:HIS:HD2	1.98	0.46
1:E:58:VAL:HG22	1:E:305:CYS:HA	1.97	0.46
1:E:206:CYS:HB3	1:E:271:GLY:HA3	1.97	0.46
1:E:2068:GLU:O	1:E:2071:ARG:HB2	2.14	0.46
1:E:2145:SER:HB3	1:E:3647:HIS:CD2	2.51	0.46
1:E:2437:ALA:HB3	1:E:2508:ARG:HH21	1.79	0.46
1:E:4149:ASN:OD1	1:E:4153:HIS:HD2	1.99	0.46
1:E:4242:ILE:HG12	1:E:4993:MET:SD	2.55	0.46
1:E:4968:PHE:CE2	1:E:4978:HIS:CD2	3.03	0.46
2:F:27:THR:HA	2:F:38:SER:HA	1.97	0.46
1:G:473:ASN:O	1:G:477:LEU:HG	2.16	0.46
1:G:540:PHE:HA	1:G:543:ASN:HB2	1.96	0.46
1:G:1093:GLU:HA	1:G:1148:VAL:HG22	1.97	0.46
1:G:2238:TYR:O	1:G:2242:ILE:HG23	2.15	0.46
1:G:2437:ALA:HB3	1:G:2508:ARG:HH21	1.80	0.46
1:G:2771:ILE:HG23	1:G:2852:ARG:HB2	1.96	0.46
1:G:3713:LYS:O	1:G:3715:LYS:N	2.47	0.46
1:G:4772:ASP:OD1	1:G:4773:VAL:N	2.48	0.46
1:A:400:ALA:O	1:A:404:ILE:HG13	2.16	0.46
1:A:650:VAL:N	1:A:777:PHE:O	2.47	0.46
1:A:692:TYR:CD1	1:A:711:LEU:HD21	2.51	0.46
1:A:839:LEU:HD13	1:A:1075:PHE:CG	2.51	0.46
1:A:1453:VAL:HG12	1:A:1454:THR:O	2.15	0.46
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.51	0.46
1:A:4044:MET:HG3	1:A:4150:LEU:HD11	1.97	0.46
1:C:628:GLY:C	1:C:630:GLU:H	2.23	0.46
1:C:839:LEU:HD13	1:C:1075:PHE:CG	2.51	0.46
1:C:1433:TYR:CE1	1:C:1578:ALA:HB3	2.51	0.46
1:E:31:GLU:HA	1:E:32:GLN:HA	1.71	0.46
1:E:572:PRO:HG3	1:E:609:CYS:SG	2.55	0.46
1:E:681:HIS:H	1:E:784:SER:HB3	1.81	0.46
1:E:1453:VAL:HG12	1:E:1454:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3805:LEU:HB2	1:E:3890:LEU:HD23	1.96	0.46
1:E:4815:ASP:O	1:E:4819:GLY:N	2.46	0.46
1:G:1438:ARG:HE	1:G:1440:PHE:HE1	1.63	0.46
1:G:1717:SER:HA	1:G:1721:GLU:HB2	1.98	0.46
1:G:2354:VAL:HB	1:G:2453:ILE:HD11	1.97	0.46
1:G:4165:GLU:HA	1:G:4168:GLU:HG2	1.97	0.46
1:A:125:ARG:HG2	1:A:134:ASP:OD2	2.16	0.46
1:A:1438:ARG:HE	1:A:1440:PHE:HE1	1.63	0.46
1:A:2183:GLY:O	1:A:2187:ASN:ND2	2.49	0.46
1:C:2142:TYR:CD2	1:C:2197:LEU:HD12	2.50	0.46
1:C:2189:LYS:HD2	1:C:2192:TYR:HD2	1.80	0.46
1:C:2437:ALA:HB3	1:C:2508:ARG:HH21	1.80	0.46
1:E:214:VAL:HG22	1:E:341:TYR:CE1	2.51	0.46
1:E:1121:ALA:O	1:E:1133:HIS:ND1	2.49	0.46
1:E:3645:PRO:HB2	1:E:3648:ARG:HB3	1.98	0.46
1:E:4957:LYS:HG2	1:E:4958:CYS:O	2.16	0.46
1:G:283:ARG:NE	1:G:288:GLY:O	2.48	0.46
1:G:356:TRP:O	1:G:378:LEU:HA	2.16	0.46
1:G:1641:ILE:O	1:G:1645:ASN:N	2.49	0.46
1:G:1951:LEU:HD22	1:G:2133:GLU:HG2	1.98	0.46
1:G:4093:PHE:CG	1:G:4097:MET:HE2	2.51	0.46
1:A:170:ILE:HD12	1:A:197:GLN:HB2	1.98	0.46
1:A:606:LEU:HB3	1:A:617:ASN:HD21	1.81	0.46
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.51	0.46
1:A:3371:LYS:HA	1:A:3374:ALA:HB3	1.98	0.46
2:B:92:PRO:HG2	2:B:95:ALA:HB2	1.98	0.46
1:C:214:VAL:HG22	1:C:341:TYR:CE1	2.51	0.46
1:C:452:PHE:HB3	1:C:528:SER:HB3	1.98	0.46
1:C:692:TYR:CD1	1:C:711:LEU:HD21	2.51	0.46
1:C:2145:SER:HB3	1:C:3647:HIS:CD2	2.51	0.46
1:C:2238:TYR:O	1:C:2242:ILE:HG23	2.15	0.46
1:C:2742:THR:OG1	1:C:2811:GLU:OE1	2.28	0.46
1:C:4684:ASP:OD2	1:C:4686:LEU:HB3	2.15	0.46
1:E:125:ARG:HG2	1:E:134:ASP:OD2	2.16	0.46
1:E:1237:TRP:CH2	1:E:1655:GLU:HB3	2.51	0.46
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.16	0.46
1:E:2183:GLY:O	1:E:2187:ASN:ND2	2.49	0.46
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	1.97	0.46
1:E:4154:VAL:HG13	1:E:4154:VAL:O	2.16	0.46
1:G:588:SER:O	1:G:592:LYS:HG3	2.16	0.46
1:G:1121:ALA:O	1:G:1133:HIS:ND1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1687:SER:HB3	2:H:90:ILE:HG12	1.96	0.46
1:G:2139:PRO:HG3	1:G:3658:LYS:NZ	2.31	0.46
1:G:4686:LEU:O	1:G:4691:GLN:N	2.41	0.46
1:A:102:LEU:HB2	1:A:105:HIS:CE1	2.50	0.46
1:A:588:SER:O	1:A:592:LYS:HG3	2.16	0.46
1:A:1121:ALA:O	1:A:1133:HIS:ND1	2.49	0.46
1:A:1439:VAL:HG12	1:A:1441:ALA:H	1.80	0.46
1:A:1687:SER:HB3	2:B:90:ILE:HG12	1.97	0.46
1:A:3829:PHE:CD2	1:A:3915:ILE:HD11	2.50	0.46
1:A:4675:LYS:HG3	1:A:4715:TYR:HE1	1.81	0.46
1:A:5013:MET:HG3	1:A:5018:CYS:HB2	1.98	0.46
1:C:1237:TRP:CH2	1:C:1655:GLU:HB3	2.51	0.46
1:C:1439:VAL:HG12	1:C:1441:ALA:H	1.80	0.46
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.51	0.46
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.50	0.46
1:C:4023:MET:O	1:C:4026:MET:HG2	2.16	0.46
1:E:34:LYS:N	1:E:53:SER:OG	2.48	0.46
1:E:170:ILE:HD12	1:E:197:GLN:HB2	1.98	0.46
1:E:4901:ILE:HG21	1:E:4913:ARG:HH21	1.81	0.46
1:G:456:SER:HB2	1:G:459:LEU:HD13	1.97	0.46
1:G:1230:MET:SD	1:G:1828:ASP:HA	2.55	0.46
1:G:1433:TYR:CE1	1:G:1578:ALA:HB3	2.51	0.46
1:G:3889:GLN:O	1:G:3893:GLU:HG3	2.16	0.46
1:A:737:LEU:HB3	1:A:738:LEU:H	1.46	0.46
1:A:2507:ASP:CG	1:A:2559:LEU:HD22	2.40	0.46
1:C:231:LEU:HD11	1:C:245:VAL:CG1	2.46	0.46
1:C:516:LYS:HG3	1:C:555:GLU:OE2	2.15	0.46
1:C:1288:PHE:HE2	1:C:1460:HIS:HA	1.81	0.46
1:C:1687:SER:HB3	2:D:90:ILE:HG12	1.98	0.46
1:C:3891:LEU:HB3	1:C:3899:PHE:HE2	1.81	0.46
1:C:4154:VAL:HG13	1:C:4154:VAL:O	2.16	0.46
1:C:4221:VAL:O	1:C:4225:GLY:N	2.43	0.46
1:C:4675:LYS:HG3	1:C:4715:TYR:HE1	1.81	0.46
1:E:356:TRP:O	1:E:378:LEU:HA	2.16	0.46
1:E:1076:ARG:HG2	1:E:1077:ALA:O	2.15	0.46
1:E:1093:GLU:HA	1:E:1148:VAL:HG22	1.97	0.46
1:E:4181:ILE:HD11	1:E:4193:ILE:HD11	1.98	0.46
1:G:206:CYS:HB3	1:G:271:GLY:HA3	1.97	0.46
1:G:214:VAL:HG22	1:G:341:TYR:CE1	2.51	0.46
1:G:909:ASN:O	1:G:912:SER:OG	2.28	0.46
1:G:1288:PHE:HE2	1:G:1460:HIS:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2068:GLU:OE1	1:G:2068:GLU:N	2.46	0.46
1:G:2106:ALA:HB1	1:G:3700:GLN:HG3	1.96	0.46
1:A:356:TRP:O	1:A:378:LEU:HA	2.16	0.45
1:A:1100:MET:HB3	1:A:1102:VAL:HG23	1.98	0.45
1:A:1433:TYR:CE1	1:A:1578:ALA:HB3	2.51	0.45
1:A:3645:PRO:HB2	1:A:3648:ARG:HB3	1.98	0.45
1:A:4023:MET:O	1:A:4026:MET:HG2	2.16	0.45
1:A:4149:ASN:OD1	1:A:4153:HIS:HD2	1.98	0.45
1:A:4661:TYR:CE1	1:A:4665:LYS:HB2	2.50	0.45
1:A:4682:GLU:CD	1:A:4723:LYS:NZ	2.74	0.45
1:A:4684:ASP:OD2	1:A:4686:LEU:HB3	2.16	0.45
1:A:4888:TYR:HD1	1:G:4914:VAL:HG13	1.81	0.45
1:C:650:VAL:N	1:C:777:PHE:O	2.47	0.45
1:C:1641:ILE:O	1:C:1645:ASN:N	2.49	0.45
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.16	0.45
1:C:2183:GLY:O	1:C:2187:ASN:ND2	2.49	0.45
1:C:2507:ASP:CG	1:C:2559:LEU:HD22	2.40	0.45
1:E:1518:CYS:SG	1:E:1528:THR:N	2.85	0.45
1:E:1864:LYS:HZ3	1:E:1869:GLU:C	2.23	0.45
1:E:2189:LYS:HD2	1:E:2192:TYR:HD2	1.80	0.45
1:G:231:LEU:HD11	1:G:245:VAL:CG1	2.46	0.45
1:G:606:LEU:HB3	1:G:617:ASN:HD21	1.82	0.45
1:G:681:HIS:H	1:G:784:SER:HB3	1.80	0.45
1:G:1100:MET:HB3	1:G:1102:VAL:HG23	1.98	0.45
1:G:1116:GLY:HA3	1:G:1132:TRP:CD1	2.51	0.45
1:G:1701:ALA:HB1	1:G:1830:VAL:HG13	1.98	0.45
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.16	0.45
1:G:4103:PHE:HB2	1:G:4108:ILE:HD11	1.98	0.45
1:A:214:VAL:HG22	1:A:341:TYR:CE1	2.51	0.45
1:A:636:ASN:HD21	2:B:35:LYS:NZ	2.15	0.45
1:A:681:HIS:H	1:A:784:SER:HB3	1.81	0.45
1:A:1112:ASP:HA	1:A:1607:ARG:HH11	1.82	0.45
1:A:1641:ILE:O	1:A:1645:ASN:N	2.50	0.45
1:A:1710:GLY:O	1:A:1714:LEU:HG	2.17	0.45
1:A:3949:ARG:O	1:A:3952:SER:OG	2.20	0.45
1:A:4837:LEU:CD1	1:A:4932:ILE:HG23	2.45	0.45
1:A:4931:ILE:HG23	1:C:4940:PHE:HZ	1.79	0.45
1:C:170:ILE:HD12	1:C:197:GLN:HB2	1.98	0.45
1:C:195:PHE:HD1	1:E:2358:ILE:CG2	2.27	0.45
1:C:675:LEU:HD23	1:C:676:THR:HG23	1.99	0.45
1:C:4968:PHE:CE2	1:C:4978:HIS:CD2	3.03	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:195:PHE:HD1	1:G:2358:ILE:CG2	2.28	0.45
1:E:236:ALA:HA	1:E:242:ARG:HH11	1.80	0.45
1:E:294:THR:HG22	1:E:296:ASP:H	1.81	0.45
1:E:452:PHE:HB3	1:E:528:SER:HB3	1.98	0.45
1:E:692:TYR:CD1	1:E:711:LEU:HD21	2.51	0.45
1:E:1254:HIS:HD2	1:E:1280:GLN:H	1.64	0.45
1:E:1943:LEU:HD22	1:E:2123:LEU:HD13	1.98	0.45
1:G:125:ARG:HG2	1:G:134:ASP:OD2	2.16	0.45
1:G:607:CYS:SG	1:G:618:GLN:HG2	2.56	0.45
1:G:1581:LEU:HD11	1:G:1595:LEU:HD23	1.98	0.45
1:G:4554:TYR:HA	1:G:4557:ARG:CZ	2.46	0.45
1:G:4678:ALA:HB1	1:G:4720:VAL:HG11	1.97	0.45
1:G:4983:HIS:HE1	1:G:5023:PRO:HG2	1.81	0.45
2:H:54:GLU:HG3	2:H:55:VAL:HG13	1.98	0.45
1:A:206:CYS:HB3	1:A:271:GLY:HA3	1.97	0.45
1:A:452:PHE:HB3	1:A:528:SER:HB3	1.98	0.45
1:A:1116:GLY:HA3	1:A:1132:TRP:CD1	2.51	0.45
1:A:1288:PHE:HE2	1:A:1460:HIS:HA	1.82	0.45
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.17	0.45
1:A:2758:PHE:HD2	1:A:2809:ILE:HD13	1.81	0.45
1:A:3798:LEU:HD11	1:A:3884:LEU:HD12	1.97	0.45
1:C:283:ARG:NE	1:C:288:GLY:O	2.49	0.45
1:C:473:ASN:O	1:C:477:LEU:HG	2.15	0.45
1:C:1116:GLY:HA2	1:C:1121:ALA:HB3	1.99	0.45
1:C:1121:ALA:O	1:C:1133:HIS:ND1	2.49	0.45
1:C:2498:HIS:O	1:C:2501:SER:OG	2.30	0.45
1:E:606:LEU:HB3	1:E:617:ASN:HD21	1.81	0.45
1:E:674:PHE:CB	2:F:40:ARG:NH1	2.73	0.45
1:E:990:GLU:HG3	1:E:1024:TYR:HB3	1.99	0.45
1:E:1152:MET:HB2	1:E:1161:ILE:HB	1.98	0.45
1:E:1641:ILE:O	1:E:1645:ASN:N	2.49	0.45
1:E:4023:MET:O	1:E:4026:MET:HG2	2.16	0.45
1:E:4223:ASN:HD21	1:E:4946:GLN:NE2	2.14	0.45
1:A:2333:ASP:O	1:A:2336:ARG:HB3	2.17	0.45
1:C:668:VAL:HG12	1:C:740:PRO:HA	1.98	0.45
1:C:4837:LEU:CD1	1:C:4932:ILE:HG23	2.44	0.45
1:E:231:LEU:HD11	1:E:245:VAL:CG1	2.47	0.45
1:E:588:SER:O	1:E:592:LYS:HG3	2.16	0.45
1:E:675:LEU:HD23	1:E:676:THR:HG23	1.99	0.45
1:E:2788:HIS:CG	1:E:2789:PRO:HD2	2.52	0.45
1:E:3767:GLN:NE2	1:E:3806:ASN:HB3	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4857:ASN:O	1:E:4859:PHE:N	2.48	0.45
1:G:400:ALA:O	1:G:404:ILE:HG13	2.17	0.45
1:G:692:TYR:CD1	1:G:711:LEU:HD21	2.51	0.45
1:G:990:GLU:HG3	1:G:1024:TYR:HB3	1.98	0.45
1:G:1439:VAL:HG12	1:G:1441:ALA:H	1.80	0.45
1:G:2821:TRP:CD1	1:G:2939:ARG:HA	2.52	0.45
1:G:3802:ILE:O	1:G:3806:ASN:N	2.50	0.45
1:A:1093:GLU:HA	1:A:1148:VAL:HG22	1.97	0.45
1:A:1293:LEU:HB3	1:A:1584:ARG:HG2	1.97	0.45
1:A:2347:GLU:O	1:A:2351:ASN:ND2	2.40	0.45
1:A:4836:GLN:HB3	1:C:4826:ILE:HD11	1.98	0.45
1:A:4965:SER:HA	1:A:4975:PHE:CD1	2.52	0.45
1:C:606:LEU:HB3	1:C:617:ASN:HD21	1.82	0.45
1:C:2151:ASP:O	1:C:2154:SER:OG	2.19	0.45
1:C:2758:PHE:HD2	1:C:2809:ILE:HD13	1.81	0.45
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.51	0.45
2:D:92:PRO:HG2	2:D:95:ALA:HB2	1.98	0.45
1:E:400:ALA:O	1:E:404:ILE:HG13	2.17	0.45
1:E:1254:HIS:HD2	1:E:1280:GLN:N	2.13	0.45
1:E:1701:ALA:HB1	1:E:1830:VAL:HG13	1.98	0.45
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.51	0.45
1:E:4861:LYS:NZ	1:E:4909:TYR:CD2	2.79	0.45
1:E:4901:ILE:HG21	1:E:4913:ARG:NH2	2.31	0.45
1:G:34:LYS:N	1:G:53:SER:OG	2.49	0.45
1:G:214:VAL:HG21	1:G:390:LEU:HD12	1.97	0.45
1:G:294:THR:HG22	1:G:296:ASP:H	1.81	0.45
1:G:452:PHE:HB3	1:G:528:SER:HB3	1.99	0.45
1:G:1943:LEU:HD22	1:G:2123:LEU:HD13	1.98	0.45
1:G:1970:GLN:HA	1:G:1973:GLN:HG2	1.98	0.45
1:G:4661:TYR:CE2	1:G:4789:PHE:HB2	2.51	0.45
1:A:214:VAL:HG21	1:A:390:LEU:HD12	1.97	0.45
1:A:1701:ALA:HB1	1:A:1830:VAL:HG13	1.98	0.45
1:A:1818:ALA:HB1	1:A:1838:PHE:CE1	2.52	0.45
1:A:3780:LEU:HD23	1:A:3819:TYR:CD2	2.52	0.45
1:A:3891:LEU:HB3	1:A:3899:PHE:HE2	1.81	0.45
1:C:2735:PHE:HD2	1:C:2891:LYS:HD2	1.81	0.45
1:C:4888:TYR:O	1:C:4892:ARG:HD3	2.17	0.45
1:C:4965:SER:HA	1:C:4975:PHE:CD1	2.52	0.45
1:E:1288:PHE:HE2	1:E:1460:HIS:HA	1.81	0.45
1:E:2210:VAL:O	1:E:2214:VAL:HG23	2.16	0.45
1:E:2499:LYS:O	1:E:2503:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4682:GLU:CD	1:E:4723:LYS:NZ	2.75	0.45
1:G:15:ARG:HB2	1:G:18:ASP:OD2	2.16	0.45
1:G:675:LEU:HD23	1:G:676:THR:HG23	1.99	0.45
1:G:1237:TRP:CH2	1:G:1655:GLU:HB3	2.51	0.45
1:G:3887:PHE:O	1:G:3891:LEU:HD13	2.17	0.45
1:A:294:THR:HG22	1:A:296:ASP:H	1.82	0.45
1:A:1152:MET:HB2	1:A:1161:ILE:HB	1.98	0.45
1:A:3886:ARG:O	1:A:3890:LEU:HD13	2.17	0.45
1:C:537:CYS:HB3	1:C:571:SER:HB3	1.98	0.45
1:C:1152:MET:HB2	1:C:1161:ILE:HB	1.98	0.45
1:C:1518:CYS:SG	1:C:1528:THR:N	2.85	0.45
1:C:2883:HIS:NE2	1:C:2906:VAL:O	2.35	0.45
1:C:2902:HIS:H	1:C:2905:LEU:HD12	1.82	0.45
1:C:4677:LEU:HD22	1:C:4711:PHE:CE1	2.52	0.45
1:C:4705:VAL:HG22	1:C:4711:PHE:HD1	1.81	0.45
1:C:4836:GLN:HB3	1:E:4826:ILE:HD11	1.99	0.45
1:C:4857:ASN:O	1:C:4859:PHE:N	2.49	0.45
1:C:4928:LEU:HD23	1:C:4931:ILE:HD12	1.97	0.45
1:E:473:ASN:O	1:E:477:LEU:HG	2.16	0.45
1:E:668:VAL:HG12	1:E:740:PRO:HA	1.98	0.45
1:E:1116:GLY:HA2	1:E:1121:ALA:HB3	1.99	0.45
1:E:2763:HIS:NE2	1:E:2792:ARG:O	2.50	0.45
1:E:3802:ILE:HD12	1:E:3886:ARG:HG3	1.98	0.45
1:E:4684:ASP:OD2	1:E:4686:LEU:HB3	2.16	0.45
1:G:1518:CYS:SG	1:G:1528:THR:N	2.85	0.45
1:G:1734:TYR:HB2	1:G:2141:ALA:HB2	1.98	0.45
1:G:2333:ASP:O	1:G:2336:ARG:HB3	2.16	0.45
1:G:2788:HIS:CG	1:G:2789:PRO:HD2	2.51	0.45
1:A:1579:MET:O	1:A:1582:SER:OG	2.24	0.45
1:A:4662:ASN:HA	1:A:4666:VAL:HG21	1.99	0.45
1:A:4957:LYS:HG2	1:A:4958:CYS:O	2.16	0.45
2:B:27:THR:HA	2:B:38:SER:HA	1.97	0.45
1:C:70:GLU:O	1:C:71:GLN:HG3	2.17	0.45
1:C:356:TRP:O	1:C:378:LEU:HA	2.16	0.45
1:C:1930:LYS:HA	1:C:1930:LYS:HD2	1.82	0.45
1:C:2503:VAL:HG12	1:C:2559:LEU:HD12	1.99	0.45
1:C:4925:ILE:HG23	1:C:4929:LEU:HD12	1.99	0.45
1:E:70:GLU:O	1:E:71:GLN:HG3	2.17	0.45
1:E:595:ARG:HG2	1:E:1662:PHE:CE1	2.52	0.45
1:E:3371:LYS:HA	1:E:3374:ALA:HB3	1.98	0.45
1:E:3887:PHE:CZ	1:E:3891:LEU:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4093:PHE:CG	1:E:4097:MET:HE2	2.52	0.45
1:E:4675:LYS:HG3	1:E:4715:TYR:HE1	1.81	0.45
1:G:3771:HIS:CE1	1:G:3812:VAL:HA	2.51	0.45
1:G:4044:MET:HG3	1:G:4150:LEU:HD11	1.99	0.45
1:G:4685:GLY:O	1:G:4689:THR:N	2.50	0.45
2:H:78:PRO:HA	2:H:81:ALA:HB3	1.98	0.45
1:A:1930:LYS:HD2	1:A:1930:LYS:HA	1.82	0.45
1:A:1943:LEU:HD22	1:A:2123:LEU:HD13	1.98	0.45
1:A:2159:LEU:HA	1:A:2162:ILE:HG22	1.98	0.45
1:A:4581:LYS:HA	1:G:4856:PHE:CZ	2.51	0.45
1:A:4857:ASN:O	1:A:4859:PHE:N	2.50	0.45
1:A:4861:LYS:NZ	1:A:4909:TYR:CD2	2.79	0.45
1:C:687:ALA:HB2	1:C:711:LEU:HD23	1.99	0.45
1:C:990:GLU:HG3	1:C:1024:TYR:HB3	1.99	0.45
1:C:1116:GLY:HA3	1:C:1132:TRP:CD1	2.52	0.45
1:C:1701:ALA:HB1	1:C:1830:VAL:HG13	1.98	0.45
1:C:2347:GLU:O	1:C:2351:ASN:ND2	2.40	0.45
1:C:5013:MET:HG3	1:C:5018:CYS:HB2	1.98	0.45
2:D:27:THR:HA	2:D:38:SER:HA	1.97	0.45
1:E:69:LEU:HD23	1:E:109:LEU:HD23	1.99	0.45
1:E:4662:ASN:HA	1:E:4666:VAL:HG21	1.99	0.45
1:G:1152:MET:HB2	1:G:1161:ILE:HB	1.98	0.45
1:G:1254:HIS:HD2	1:G:1280:GLN:H	1.64	0.45
1:G:1942:LEU:HG	1:G:1946:PHE:HE2	1.81	0.45
1:G:1958:LEU:HD13	1:G:2134:LEU:HD11	1.99	0.45
1:G:3977:GLN:NE2	1:G:4032:GLU:OE2	2.50	0.45
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.97	0.45
1:A:12:GLN:O	1:A:165:VAL:HG23	2.17	0.45
1:A:70:GLU:O	1:A:71:GLN:HG3	2.17	0.45
1:A:1237:TRP:CH2	1:A:1655:GLU:HB3	2.51	0.45
1:A:1581:LEU:HD11	1:A:1595:LEU:HD23	1.99	0.45
1:A:1719:HIS:CD2	1:A:1802:ILE:HG23	2.52	0.45
1:A:2499:LYS:O	1:A:2503:VAL:HG23	2.17	0.45
1:A:4723:LYS:HA	1:A:4726:ASP:HB2	1.99	0.45
2:B:36:PHE:CZ	2:B:97:LEU:HD22	2.52	0.45
1:C:1254:HIS:HD2	1:C:1280:GLN:N	2.13	0.45
1:C:2333:ASP:O	1:C:2336:ARG:HB3	2.16	0.45
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.98	0.45
1:C:3886:ARG:O	1:C:3890:LEU:HD13	2.16	0.45
1:C:3927:GLN:NE2	1:C:3988:ALA:HA	2.32	0.45
1:C:4662:ASN:HA	1:C:4666:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4901:ILE:HG21	1:C:4913:ARG:NH2	2.32	0.45
1:E:15:ARG:HB2	1:E:18:ASP:OD2	2.17	0.45
1:E:736:HIS:HD2	1:E:742:ASP:OD2	2.00	0.45
1:E:736:HIS:NE2	1:E:739:ALA:HB2	2.31	0.45
1:E:1818:ALA:HB1	1:E:1838:PHE:CE1	2.52	0.45
1:E:4677:LEU:HD22	1:E:4711:PHE:CE1	2.52	0.45
1:G:1254:HIS:CE1	1:G:1256:GLU:HB2	2.52	0.45
1:G:4181:ILE:HD11	1:G:4193:ILE:HD11	1.99	0.45
1:A:675:LEU:HD23	1:A:676:THR:HG23	1.98	0.44
1:A:898:ASP:OD2	1:A:900:ASN:HB2	2.16	0.44
1:A:1205:GLY:HA3	1:A:1227:ALA:HB3	1.98	0.44
1:A:2145:SER:HB3	1:A:3647:HIS:CD2	2.51	0.44
1:A:4045:VAL:HG21	1:A:4154:VAL:HG11	1.99	0.44
1:A:4154:VAL:O	1:A:4154:VAL:HG13	2.16	0.44
1:A:4555:LEU:HD11	1:A:4656:LEU:HD13	1.99	0.44
1:C:1112:ASP:HA	1:C:1607:ARG:HH11	1.82	0.44
1:C:1293:LEU:HB3	1:C:1584:ARG:HG2	1.97	0.44
1:C:1719:HIS:CD2	1:C:1802:ILE:HG23	2.52	0.44
1:C:4931:ILE:HG23	1:E:4940:PHE:HZ	1.81	0.44
1:E:607:CYS:HG	1:E:1673:VAL:HA	1.82	0.44
1:E:687:ALA:HB2	1:E:711:LEU:HD23	1.99	0.44
1:E:728:ARG:HA	1:E:729:PRO:HD3	1.85	0.44
1:E:993:HIS:CE1	1:E:1020:ARG:HB3	2.48	0.44
1:E:1116:GLY:HA3	1:E:1132:TRP:CD1	2.52	0.44
1:E:1288:PHE:CD1	1:E:1553:PHE:HD1	2.35	0.44
1:E:1942:LEU:HG	1:E:1946:PHE:HE2	1.82	0.44
1:E:2212:VAL:HG21	1:E:2256:TYR:CZ	2.52	0.44
1:E:4045:VAL:HG21	1:E:4154:VAL:HG11	1.98	0.44
1:E:4935:LEU:HB2	1:G:4940:PHE:HE2	1.82	0.44
1:G:69:LEU:HD23	1:G:109:LEU:HD23	1.99	0.44
1:G:70:GLU:O	1:G:71:GLN:HG3	2.17	0.44
1:G:705:ASN:OD1	1:G:706:GLY:N	2.51	0.44
1:G:898:ASP:OD2	1:G:900:ASN:HB2	2.17	0.44
1:G:1719:HIS:CD2	1:G:1802:ILE:HG23	2.52	0.44
1:A:252:VAL:HA	1:A:255:HIS:ND1	2.33	0.44
1:A:668:VAL:HG12	1:A:740:PRO:HA	1.98	0.44
1:A:692:TYR:CZ	1:A:694:PRO:HG3	2.52	0.44
1:A:1254:HIS:HD2	1:A:1280:GLN:H	1.64	0.44
1:A:2102:VAL:HG13	1:A:2120:MET:HE2	2.00	0.44
1:A:2143:THR:HG23	1:A:3654:LEU:HD11	1.99	0.44
1:A:3722:TYR:OH	1:A:3782:MET:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3927:GLN:CD	1:A:3988:ALA:HA	2.42	0.44
1:A:4181:ILE:HD11	1:A:4193:ILE:HD11	1.99	0.44
1:A:4839:MET:HG3	1:C:4822:THR:CG2	2.40	0.44
1:C:62:LEU:HA	1:C:65:CYS:SG	2.57	0.44
1:C:260:TRP:CZ3	1:C:284:HIS:HB2	2.53	0.44
1:C:400:ALA:O	1:C:404:ILE:HG13	2.17	0.44
1:C:595:ARG:HG2	1:C:1662:PHE:CE1	2.52	0.44
1:C:1288:PHE:CD1	1:C:1553:PHE:HD1	2.35	0.44
1:C:1805:GLU:HA	1:C:1808:ARG:HG2	2.00	0.44
1:C:2159:LEU:HA	1:C:2162:ILE:HG22	1.99	0.44
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.17	0.44
1:C:2499:LYS:O	1:C:2503:VAL:HG23	2.17	0.44
1:C:3645:PRO:HB2	1:C:3648:ARG:HB3	1.98	0.44
1:C:3722:TYR:OH	1:C:3782:MET:HG3	2.17	0.44
1:C:3887:PHE:CZ	1:C:3891:LEU:HD11	2.52	0.44
1:C:4957:LYS:HG2	1:C:4958:CYS:O	2.16	0.44
1:E:445:LEU:HD23	1:E:521:LEU:HB3	1.99	0.44
1:E:1710:GLY:O	1:E:1714:LEU:HG	2.17	0.44
1:E:2124:LEU:HG	1:E:3673:MET:HE3	1.99	0.44
1:E:2758:PHE:HD2	1:E:2809:ILE:HD13	1.81	0.44
1:E:4893:ALA:C	1:E:4895:GLY:H	2.25	0.44
1:G:595:ARG:HG2	1:G:1662:PHE:CE1	2.52	0.44
1:G:758:ARG:HG2	1:G:763:PRO:HA	1.99	0.44
1:G:2066:LEU:O	1:G:2070:VAL:HG23	2.18	0.44
1:A:60:PRO:HD2	1:A:281:ARG:NH2	2.32	0.44
1:A:445:LEU:HD23	1:A:521:LEU:HB3	1.99	0.44
1:A:537:CYS:HB3	1:A:571:SER:HB3	1.99	0.44
1:A:758:ARG:HG2	1:A:763:PRO:HA	2.00	0.44
1:A:1518:CYS:SG	1:A:1528:THR:N	2.85	0.44
1:A:1942:LEU:HG	1:A:1946:PHE:HE2	1.81	0.44
1:C:1942:LEU:HG	1:C:1946:PHE:HE2	1.81	0.44
1:C:1943:LEU:HD22	1:C:2123:LEU:HD13	1.98	0.44
1:C:2812:SER:HG	1:C:2882:TYR:HH	1.63	0.44
2:D:55:VAL:HG23	2:D:60:GLU:HB2	1.98	0.44
1:E:401:ALA:O	1:E:404:ILE:HB	2.18	0.44
1:E:750:LEU:C	1:E:751:SER:HG	2.25	0.44
1:E:1970:GLN:HA	1:E:1973:GLN:HG2	1.99	0.44
1:E:2211:MET:HE3	1:E:2215:LEU:HD11	2.00	0.44
1:E:3886:ARG:O	1:E:3890:LEU:HD13	2.17	0.44
1:E:3889:GLN:O	1:E:3893:GLU:HG3	2.18	0.44
1:E:4695:ASP:OD1	1:E:4696:ASP:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4965:SER:HA	1:E:4975:PHE:CD1	2.52	0.44
1:G:1112:ASP:HA	1:G:1607:ARG:HH11	1.82	0.44
1:G:1456:ASP:O	1:G:1457:TYR:CB	2.65	0.44
1:G:2114:PRO:HB3	1:G:3707:ARG:HD3	1.99	0.44
1:G:4229:GLU:HB3	1:G:4233:LEU:HG	1.98	0.44
1:G:4934:GLY:HA2	1:G:4937:ILE:HG12	2.00	0.44
2:H:55:VAL:HG23	2:H:60:GLU:HB2	2.00	0.44
1:A:401:ALA:O	1:A:404:ILE:HB	2.18	0.44
1:A:990:GLU:HG3	1:A:1024:TYR:HB3	1.98	0.44
1:A:2124:LEU:HG	1:A:3673:MET:HE3	1.99	0.44
1:A:2503:VAL:HG12	1:A:2559:LEU:HD12	1.98	0.44
1:A:4677:LEU:HD22	1:A:4711:PHE:CE1	2.52	0.44
1:A:4888:TYR:HE1	1:G:4917:ASP:CB	2.31	0.44
1:A:4893:ALA:C	1:A:4895:GLY:H	2.26	0.44
1:A:4901:ILE:HG21	1:A:4913:ARG:NH2	2.32	0.44
2:B:55:VAL:HG23	2:B:60:GLU:HB2	1.98	0.44
1:C:554:LEU:HD22	1:C:1596:GLU:HG2	2.00	0.44
1:C:607:CYS:SG	1:C:618:GLN:HG2	2.58	0.44
1:C:736:HIS:HD2	1:C:742:ASP:OD2	2.00	0.44
1:C:2143:THR:HG23	1:C:3654:LEU:HD11	1.99	0.44
1:C:2927:LEU:HD23	1:C:2930:LEU:HD12	1.99	0.44
1:C:3965:LEU:HA	1:C:3968:TYR:HD2	1.83	0.44
1:C:4093:PHE:CG	1:C:4097:MET:HE2	2.52	0.44
1:E:62:LEU:HA	1:E:65:CYS:SG	2.57	0.44
1:E:537:CYS:HB3	1:E:571:SER:HB3	1.98	0.44
1:E:2875:ALA:HB2	1:E:2927:LEU:HD12	1.99	0.44
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.81	0.44
1:E:4059:LEU:HD22	1:E:4167:ALA:HB2	1.99	0.44
1:G:104:GLY:HA3	1:G:159:GLU:HG2	2.00	0.44
1:G:445:LEU:HD23	1:G:521:LEU:HB3	1.98	0.44
1:G:687:ALA:HB2	1:G:711:LEU:HD23	1.99	0.44
1:G:737:LEU:HD11	2:H:7:ILE:CG2	2.38	0.44
1:G:1660:GLN:NE2	1:G:1704:PRO:HB2	2.32	0.44
1:G:4024:VAL:HA	1:G:4027:LEU:HD12	1.99	0.44
1:G:4045:VAL:HG21	1:G:4154:VAL:HG11	1.99	0.44
1:G:4893:ALA:C	1:G:4895:GLY:H	2.25	0.44
1:A:595:ARG:HG2	1:A:1662:PHE:CE1	2.52	0.44
1:A:674:PHE:CB	2:B:40:ARG:NH1	2.72	0.44
1:A:1849:LEU:HD13	1:A:1854:PHE:CD2	2.48	0.44
1:A:3889:GLN:O	1:A:3893:GLU:HG3	2.17	0.44
1:A:4093:PHE:CG	1:A:4097:MET:HE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:15:ARG:HB2	1:C:18:ASP:OD2	2.16	0.44
1:C:1254:HIS:HD2	1:C:1280:GLN:H	1.65	0.44
1:C:2816:MET:HE3	1:C:2821:TRP:HE3	1.82	0.44
1:C:2865:VAL:O	1:C:2928:LYS:NZ	2.38	0.44
1:C:4682:GLU:CD	1:C:4723:LYS:NZ	2.75	0.44
2:D:36:PHE:CZ	2:D:97:LEU:HD22	2.52	0.44
1:E:342:GLY:N	1:E:390:LEU:O	2.50	0.44
1:E:1581:LEU:HD11	1:E:1595:LEU:HD23	1.99	0.44
1:E:2333:ASP:O	1:E:2336:ARG:HB3	2.17	0.44
1:E:3780:LEU:HD23	1:E:3819:TYR:CD2	2.52	0.44
1:E:4934:GLY:CA	1:G:4937:ILE:CD1	2.95	0.44
1:E:5011:TRP:O	1:E:5015:GLN:HG2	2.18	0.44
2:F:92:PRO:HG2	2:F:95:ALA:HB2	1.98	0.44
1:G:293:LEU:HB2	1:G:378:LEU:HD12	2.00	0.44
1:G:1288:PHE:CD1	1:G:1553:PHE:HD1	2.35	0.44
1:G:1723:ALA:HB1	1:G:1775:HIS:CD2	2.43	0.44
1:G:2763:HIS:NE2	1:G:2792:ARG:O	2.51	0.44
1:A:519:VAL:HG12	1:A:523:TYR:HE2	1.83	0.44
1:A:705:ASN:OD1	1:A:706:GLY:N	2.51	0.44
1:A:2773:ASN:HB3	1:A:2775:TRP:CD1	2.53	0.44
1:A:2816:MET:HE3	1:A:2821:TRP:HE3	1.82	0.44
1:A:3798:LEU:HD12	1:A:3880:PHE:CE1	2.53	0.44
1:A:3927:GLN:NE2	1:A:3988:ALA:HA	2.32	0.44
1:C:118:LEU:HA	1:C:137:LEU:HD23	2.00	0.44
1:C:1579:MET:O	1:C:1582:SER:OG	2.25	0.44
1:C:1970:GLN:HA	1:C:1973:GLN:HG2	1.99	0.44
1:C:2066:LEU:O	1:C:2070:VAL:HG23	2.17	0.44
1:C:3927:GLN:CD	1:C:3988:ALA:HA	2.42	0.44
1:E:692:TYR:CZ	1:E:694:PRO:HG3	2.52	0.44
1:E:1254:HIS:CD2	1:E:1280:GLN:HB3	2.53	0.44
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.18	0.44
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	1.99	0.44
1:E:3722:TYR:OH	1:E:3782:MET:HG3	2.17	0.44
1:E:3927:GLN:HG3	1:E:3928:GLU:N	2.32	0.44
1:E:4057:MET:HA	1:E:4060:LYS:HG2	2.00	0.44
2:F:15:PHE:HE1	2:F:67:SER:HB3	1.83	0.44
1:G:260:TRP:CZ3	1:G:284:HIS:HB2	2.52	0.44
1:G:537:CYS:HB3	1:G:571:SER:HB3	1.99	0.44
1:G:764:VAL:O	1:G:764:VAL:HG12	2.18	0.44
1:G:1254:HIS:CD2	1:G:1280:GLN:HB3	2.53	0.44
1:G:2212:VAL:HG21	1:G:2256:TYR:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2499:LYS:O	1:G:2503:VAL:HG23	2.17	0.44
1:G:2827:ARG:HB2	1:G:2934:GLY:CA	2.47	0.44
1:G:3674:ILE:HD11	1:G:3728:ILE:HG22	1.99	0.44
1:G:3798:LEU:O	1:G:3802:ILE:HG12	2.18	0.44
1:G:3829:PHE:HD2	1:G:3915:ILE:HD11	1.82	0.44
1:A:59:PRO:HD2	1:A:304:ALA:HB1	2.00	0.44
1:A:231:LEU:HD11	1:A:245:VAL:CG1	2.47	0.44
1:A:260:TRP:CZ3	1:A:284:HIS:HB2	2.52	0.44
1:A:342:GLY:N	1:A:390:LEU:O	2.50	0.44
1:A:736:HIS:HD2	1:A:742:ASP:OD2	2.00	0.44
1:A:871:ARG:HB2	1:A:929:LEU:HD12	2.00	0.44
1:A:1714:LEU:O	1:A:1718:ILE:HG12	2.17	0.44
1:A:1734:TYR:HB2	1:A:2141:ALA:HB2	2.00	0.44
1:A:1805:GLU:HA	1:A:1808:ARG:HG2	2.00	0.44
1:A:4705:VAL:HG22	1:A:4711:PHE:HD1	1.81	0.44
1:A:4963:ILE:HD11	1:A:5025:GLY:O	2.18	0.44
1:C:342:GLY:N	1:C:390:LEU:O	2.50	0.44
1:C:519:VAL:HG12	1:C:523:TYR:HE2	1.83	0.44
1:C:1205:GLY:HA3	1:C:1227:ALA:HB3	2.00	0.44
1:C:1710:GLY:O	1:C:1714:LEU:HG	2.18	0.44
1:C:4963:ILE:HD11	1:C:5025:GLY:O	2.18	0.44
1:E:60:PRO:HD2	1:E:281:ARG:NH2	2.32	0.44
1:E:565:TYR:HB2	1:E:602:VAL:HG22	2.00	0.44
1:E:614:VAL:HG13	1:E:617:ASN:HB3	2.00	0.44
1:E:758:ARG:HG2	1:E:763:PRO:HA	1.99	0.44
1:E:3927:GLN:CD	1:E:3988:ALA:HA	2.42	0.44
1:E:3951:PHE:CZ	1:E:3955:MET:HE2	2.53	0.44
1:G:59:PRO:HD2	1:G:304:ALA:HB1	1.99	0.44
1:G:60:PRO:HD2	1:G:281:ARG:NH2	2.32	0.44
1:G:692:TYR:CZ	1:G:694:PRO:HG3	2.52	0.44
1:G:1818:ALA:HB1	1:G:1838:PHE:CE1	2.52	0.44
1:G:2211:MET:HE3	1:G:2215:LEU:HD11	2.00	0.44
1:G:2829:GLY:HA2	1:G:2933:ASN:HA	2.00	0.44
1:G:3952:SER:HB2	1:G:4015:GLU:OE1	2.18	0.44
1:G:4573:ILE:HG22	1:G:4577:LEU:CD1	2.48	0.44
1:G:4798:MET:O	1:G:4802:GLY:N	2.50	0.44
2:H:15:PHE:HE1	2:H:67:SER:HB3	1.83	0.44
1:A:210:GLU:HG2	1:A:273:HIS:HE1	1.83	0.44
1:A:1288:PHE:CD1	1:A:1553:PHE:HD1	2.35	0.44
1:A:1858:ASP:O	1:A:1862:ILE:HG12	2.18	0.44
1:A:3887:PHE:CZ	1:A:3891:LEU:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3951:PHE:CZ	1:A:3955:MET:HE2	2.53	0.44
1:A:4550:LYS:HB2	1:A:4550:LYS:HE3	1.85	0.44
1:C:2124:LEU:HG	1:C:3673:MET:HE3	2.00	0.44
1:C:2207:VAL:HG11	1:C:2235:PHE:CD2	2.53	0.44
1:C:5011:TRP:O	1:C:5015:GLN:HG2	2.18	0.44
1:E:118:LEU:HA	1:E:137:LEU:HD23	2.00	0.44
1:E:519:VAL:HG12	1:E:523:TYR:HE2	1.83	0.44
1:E:1714:LEU:O	1:E:1718:ILE:HG12	2.18	0.44
1:E:1719:HIS:CD2	1:E:1802:ILE:HG23	2.52	0.44
1:E:2066:LEU:O	1:E:2070:VAL:HG23	2.17	0.44
1:E:2102:VAL:HG13	1:E:2120:MET:HE2	2.00	0.44
1:G:244:LEU:HD23	1:G:300:VAL:HG12	2.00	0.44
1:G:554:LEU:HD22	1:G:1596:GLU:HG2	2.00	0.44
1:G:1699:GLU:CD	1:G:1810:LYS:HZ3	2.19	0.44
1:G:1715:LEU:HD21	1:G:1807:LEU:HD11	1.99	0.44
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.51	0.44
1:G:3963:ASN:HA	1:G:3966:THR:HG22	2.00	0.44
1:A:554:LEU:HD22	1:A:1596:GLU:HG2	2.00	0.44
1:A:1127:HIS:C	1:A:1129:GLY:H	2.26	0.44
1:A:2066:LEU:O	1:A:2070:VAL:HG23	2.17	0.44
1:A:2207:VAL:HG11	1:A:2235:PHE:CD2	2.53	0.44
1:A:4033:GLY:O	1:A:4189:ARG:NH2	2.40	0.44
1:A:4581:LYS:CB	1:G:4878:ASP:HA	2.48	0.44
2:B:15:PHE:HE1	2:B:67:SER:HB3	1.83	0.44
1:C:445:LEU:HD23	1:C:521:LEU:HB3	1.99	0.44
1:C:736:HIS:NE2	1:C:739:ALA:HB2	2.31	0.44
1:C:758:ARG:HG2	1:C:763:PRO:HA	1.99	0.44
1:C:909:ASN:O	1:C:912:SER:OG	2.28	0.44
1:C:1087:ARG:HB3	1:C:1223:PHE:HD1	1.82	0.44
1:C:1581:LEU:HD11	1:C:1595:LEU:HD23	1.99	0.44
1:C:1717:SER:HA	1:C:1721:GLU:CB	2.48	0.44
1:C:3780:LEU:HD23	1:C:3819:TYR:CD2	2.52	0.44
1:C:3889:GLN:O	1:C:3893:GLU:HG3	2.18	0.44
1:C:3951:PHE:CZ	1:C:3955:MET:HE2	2.53	0.44
1:C:4045:VAL:HG21	1:C:4154:VAL:HG11	1.99	0.44
1:C:4181:ILE:HD11	1:C:4193:ILE:HD11	1.98	0.44
1:C:4555:LEU:HD11	1:C:4656:LEU:HD13	2.00	0.44
1:C:4901:ILE:HG21	1:C:4913:ARG:HH21	1.82	0.44
1:E:484:LEU:HD11	1:E:536:ASN:OD1	2.18	0.44
1:E:705:ASN:OD1	1:E:706:GLY:N	2.51	0.44
1:E:1579:MET:O	1:E:1582:SER:OG	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1586:ASN:O	1:E:1588:ALA:N	2.46	0.44
1:E:1717:SER:HA	1:E:1721:GLU:CB	2.48	0.44
1:E:1972:ASN:O	1:E:1975:SER:OG	2.26	0.44
1:E:2816:MET:HE3	1:E:2821:TRP:HE3	1.83	0.44
1:E:3965:LEU:HA	1:E:3968:TYR:HD2	1.83	0.44
1:E:4205:TRP:CZ2	1:E:4214:LYS:HE2	2.53	0.44
1:E:4580:TYR:HE1	1:E:4631:PHE:HB2	1.80	0.44
2:F:36:PHE:CZ	2:F:97:LEU:HD22	2.52	0.44
1:G:103:TYR:CE2	1:G:163:VAL:HA	2.53	0.44
1:G:207:SER:OG	1:G:208:CYS:N	2.51	0.44
1:G:210:GLU:HG2	1:G:273:HIS:HE1	1.83	0.44
1:G:342:GLY:N	1:G:390:LEU:O	2.51	0.44
1:G:1858:ASP:O	1:G:1862:ILE:HG12	2.18	0.44
1:G:1864:LYS:NZ	1:G:1869:GLU:C	2.76	0.44
1:G:2503:VAL:HG12	1:G:2559:LEU:HD12	1.99	0.44
1:G:2902:HIS:H	1:G:2905:LEU:HD12	1.82	0.44
1:G:3817:LEU:HD13	1:G:3899:PHE:HD1	1.83	0.44
1:A:755:ILE:O	1:A:767:VAL:HG22	2.18	0.43
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.18	0.43
1:A:1667:LEU:HD23	1:A:1710:GLY:CA	2.47	0.43
1:A:3666:ASP:O	1:A:3669:PHE:HD2	2.01	0.43
1:C:614:VAL:HG13	1:C:617:ASN:HB3	2.00	0.43
1:C:692:TYR:CZ	1:C:694:PRO:HG3	2.52	0.43
1:C:1653:LEU:HD23	1:C:1707:LEU:CD1	2.48	0.43
1:C:1818:ALA:HB1	1:C:1838:PHE:CE1	2.52	0.43
1:C:1858:ASP:O	1:C:1862:ILE:HG12	2.18	0.43
1:C:3371:LYS:HA	1:C:3374:ALA:HB3	1.99	0.43
1:C:3798:LEU:HD12	1:C:3880:PHE:CE1	2.53	0.43
1:C:4180:ARG:NH2	1:C:4981:GLU:OE1	2.50	0.43
1:C:4579:PHE:HB2	1:C:4631:PHE:CE1	2.53	0.43
1:C:4821:LYS:HD3	1:C:4824:ARG:HE	1.83	0.43
1:E:49:LEU:HA	1:E:49:LEU:HD23	1.76	0.43
1:E:453:GLU:HA	1:E:454:PRO:HD3	1.88	0.43
1:E:2503:VAL:HG12	1:E:2559:LEU:HD12	1.99	0.43
1:E:4180:ARG:NH2	1:E:4981:GLU:OE1	2.51	0.43
1:G:565:TYR:HB2	1:G:602:VAL:HG22	2.00	0.43
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	2.00	0.43
1:G:1805:GLU:HA	1:G:1808:ARG:HG2	1.99	0.43
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.18	0.43
1:G:3780:LEU:HD12	1:G:3828:PHE:CE1	2.53	0.43
1:A:118:LEU:HA	1:A:137:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:CYS:SG	1:A:618:GLN:HG2	2.57	0.43
1:A:687:ALA:HB2	1:A:711:LEU:HD23	1.99	0.43
1:A:764:VAL:O	1:A:764:VAL:HG12	2.18	0.43
1:A:1699:GLU:CD	1:A:1810:LYS:HZ3	2.19	0.43
1:A:1970:GLN:HA	1:A:1973:GLN:HG2	1.99	0.43
1:A:2773:ASN:HD22	1:A:2775:TRP:HE1	1.65	0.43
1:C:60:PRO:HD2	1:C:281:ARG:NH2	2.32	0.43
1:C:755:ILE:O	1:C:767:VAL:HG22	2.18	0.43
1:C:1155:LEU:O	1:C:1157:GLU:N	2.51	0.43
1:C:2763:HIS:NE2	1:C:2792:ARG:O	2.50	0.43
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.53	0.43
1:C:2773:ASN:HD22	1:C:2775:TRP:HE1	1.65	0.43
1:C:4721:LYS:HB2	1:C:4741:LEU:HD13	2.00	0.43
1:C:4815:ASP:O	1:C:4819:GLY:N	2.47	0.43
1:C:4823:LEU:HA	1:C:4823:LEU:HD23	1.86	0.43
2:D:54:GLU:HG3	2:D:55:VAL:HG13	1.99	0.43
1:E:260:TRP:CZ3	1:E:284:HIS:HB2	2.53	0.43
1:E:293:LEU:HB2	1:E:378:LEU:HD12	2.00	0.43
1:E:764:VAL:O	1:E:764:VAL:HG12	2.18	0.43
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	2.00	0.43
1:E:4705:VAL:HG22	1:E:4711:PHE:HD1	1.82	0.43
1:E:4960:ILE:HD13	1:E:4983:HIS:HB3	2.00	0.43
1:G:614:VAL:HG13	1:G:617:ASN:HB3	2.00	0.43
1:G:871:ARG:HB2	1:G:929:LEU:HD12	2.00	0.43
1:G:2207:VAL:HG11	1:G:2235:PHE:CD2	2.54	0.43
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.53	0.43
1:G:4552:LEU:HD21	1:G:4663:CYS:SG	2.59	0.43
1:A:35:LEU:HD13	1:A:49:LEU:HD22	2.00	0.43
1:A:69:LEU:HD23	1:A:109:LEU:HD23	1.99	0.43
1:A:1591:CYS:N	1:A:1592:PRO:HD2	2.34	0.43
1:A:1762:LEU:HA	1:A:1763:PRO:HD2	1.92	0.43
1:A:1849:LEU:HG	1:A:1945:TYR:CD2	2.53	0.43
1:A:2875:ALA:HB2	1:A:2927:LEU:HD12	1.99	0.43
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	2.00	0.43
1:A:4192:ARG:HH11	1:A:5028:PHE:HB3	1.84	0.43
1:C:401:ALA:O	1:C:404:ILE:HB	2.18	0.43
1:C:993:HIS:CE1	1:C:1020:ARG:HB3	2.48	0.43
1:C:1598:GLN:O	1:C:1600:LEU:N	2.49	0.43
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.18	0.43
1:C:4059:LEU:HD22	1:C:4167:ALA:HB2	1.99	0.43
1:C:4192:ARG:HH11	1:C:5028:PHE:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4205:TRP:CZ2	1:C:4214:LYS:HE2	2.53	0.43
2:D:15:PHE:HE1	2:D:67:SER:HB3	1.84	0.43
1:E:554:LEU:HD22	1:E:1596:GLU:HG2	2.00	0.43
1:E:755:ILE:O	1:E:767:VAL:HG22	2.18	0.43
1:E:1762:LEU:HA	1:E:1763:PRO:HD2	1.92	0.43
1:E:2159:LEU:HA	1:E:2162:ILE:HG22	1.99	0.43
1:E:2242:ILE:HD11	1:E:2246:ASN:ND2	2.33	0.43
1:E:2326:CYS:O	1:E:2329:GLU:HG2	2.19	0.43
1:E:2773:ASN:HD22	1:E:2775:TRP:HE1	1.65	0.43
1:E:4205:TRP:CZ2	1:E:4986:ALA:HB2	2.54	0.43
1:E:4555:LEU:HD11	1:E:4656:LEU:HD13	1.99	0.43
1:E:4823:LEU:HD23	1:E:4823:LEU:HA	1.86	0.43
1:G:2159:LEU:HA	1:G:2162:ILE:HG22	1.99	0.43
1:A:1738:LEU:HD11	1:A:2143:THR:HB	2.01	0.43
1:A:4239:GLU:OE1	1:A:4675:LYS:HD2	2.18	0.43
1:C:69:LEU:HD23	1:C:109:LEU:HD23	1.99	0.43
1:C:449:ILE:HG12	1:C:525:LEU:HA	2.01	0.43
1:C:705:ASN:OD1	1:C:706:GLY:N	2.51	0.43
1:C:871:ARG:HB2	1:C:929:LEU:HD12	2.00	0.43
1:C:1232:ARG:HG3	1:C:1828:ASP:OD2	2.18	0.43
1:C:1254:HIS:CD2	1:C:1280:GLN:HB3	2.52	0.43
1:C:1254:HIS:CE1	1:C:1256:GLU:HB2	2.52	0.43
1:C:2212:VAL:HG21	1:C:2256:TYR:CZ	2.53	0.43
1:C:2326:CYS:O	1:C:2329:GLU:HG2	2.19	0.43
1:E:101:LEU:HD22	1:E:107:ILE:HG21	2.01	0.43
1:E:636:ASN:HD21	2:F:35:LYS:NZ	2.16	0.43
1:E:1849:LEU:HG	1:E:1945:TYR:CD2	2.54	0.43
1:E:3927:GLN:NE2	1:E:3988:ALA:HA	2.32	0.43
1:E:4239:GLU:OE1	1:E:4675:LYS:HD2	2.19	0.43
1:E:4842:GLY:O	1:E:4846:VAL:HG23	2.18	0.43
1:G:252:VAL:HA	1:G:255:HIS:ND1	2.33	0.43
1:G:519:VAL:HG12	1:G:523:TYR:HE2	1.83	0.43
1:G:681:HIS:O	1:G:682:LEU:HD12	2.19	0.43
1:G:1127:HIS:C	1:G:1129:GLY:H	2.26	0.43
1:G:3382:GLU:O	1:G:3386:GLU:N	2.48	0.43
1:G:3795:SER:O	1:G:3799:LYS:HG2	2.17	0.43
1:G:4717:ASP:OD1	1:G:4719:PHE:HB2	2.19	0.43
1:A:293:LEU:HB2	1:A:378:LEU:HD12	2.00	0.43
1:A:1254:HIS:CE1	1:A:1256:GLU:HB2	2.53	0.43
1:A:1638:ALA:HA	1:A:1649:ASP:HA	2.01	0.43
1:A:2212:VAL:HG21	1:A:2256:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2326:CYS:O	1:A:2329:GLU:HG2	2.19	0.43
1:A:3969:ILE:HG22	1:A:3969:ILE:O	2.18	0.43
1:A:4221:VAL:O	1:A:4225:GLY:N	2.43	0.43
1:A:4693:GLY:O	1:A:4695:ASP:N	2.52	0.43
1:A:4901:ILE:HG21	1:A:4913:ARG:HH21	1.83	0.43
1:A:4960:ILE:HD13	1:A:4983:HIS:HB3	2.00	0.43
1:C:207:SER:OG	1:C:208:CYS:N	2.51	0.43
1:C:2102:VAL:HG13	1:C:2120:MET:HE2	2.00	0.43
1:C:3927:GLN:HG3	1:C:3928:GLU:N	2.32	0.43
1:E:252:VAL:HA	1:E:255:HIS:ND1	2.34	0.43
1:E:401:ALA:HA	1:E:404:ILE:HD12	2.01	0.43
1:E:1254:HIS:CE1	1:E:1256:GLU:HB2	2.53	0.43
1:E:1653:LEU:HD23	1:E:1707:LEU:CD1	2.49	0.43
1:E:1684:ALA:O	1:E:1687:SER:OG	2.16	0.43
1:E:4686:LEU:O	1:E:4691:GLN:N	2.40	0.43
1:E:4723:LYS:HA	1:E:4726:ASP:HB2	1.99	0.43
1:G:401:ALA:HA	1:G:404:ILE:HD12	2.01	0.43
1:G:736:HIS:HD2	1:G:742:ASP:OD2	2.00	0.43
1:G:1717:SER:HA	1:G:1721:GLU:CB	2.48	0.43
1:G:2773:ASN:HD22	1:G:2775:TRP:HE1	1.65	0.43
1:A:62:LEU:HA	1:A:65:CYS:SG	2.58	0.43
1:A:244:LEU:HD23	1:A:300:VAL:HG12	2.01	0.43
1:A:401:ALA:HA	1:A:404:ILE:HD12	2.01	0.43
1:A:614:VAL:HG13	1:A:617:ASN:HB3	2.00	0.43
1:A:1087:ARG:HB3	1:A:1223:PHE:HD1	1.82	0.43
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	2.00	0.43
1:A:2242:ILE:HD11	1:A:2246:ASN:ND2	2.33	0.43
1:A:3842:LEU:HB3	1:A:3929:SER:OG	2.19	0.43
1:A:4892:ARG:HD2	1:G:4918:ILE:HD13	2.00	0.43
1:A:4942:GLU:HG3	1:C:4944:ARG:HD2	2.01	0.43
1:C:252:VAL:HA	1:C:255:HIS:ND1	2.33	0.43
1:C:1714:LEU:O	1:C:1718:ILE:HG12	2.18	0.43
1:C:2515:GLN:O	1:C:2518:LEU:HB3	2.19	0.43
1:E:871:ARG:HB2	1:E:929:LEU:HD12	2.00	0.43
1:E:1638:ALA:HA	1:E:1649:ASP:HA	2.01	0.43
1:E:1961:PHE:CZ	1:E:2063:LEU:HD23	2.54	0.43
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.53	0.43
1:G:31:GLU:HA	1:G:32:GLN:HA	1.71	0.43
1:G:118:LEU:HA	1:G:137:LEU:HD23	2.00	0.43
1:G:401:ALA:O	1:G:404:ILE:HB	2.18	0.43
1:G:667:MET:HG2	1:G:668:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2283:ASN:HB2	1:G:2286:LEU:HB3	2.00	0.43
1:G:2515:GLN:O	1:G:2518:LEU:HB3	2.19	0.43
1:G:4179:GLY:HA3	1:G:4197:ILE:HD11	2.01	0.43
1:G:4208:PRO:HG2	1:G:4210:VAL:HG23	2.00	0.43
1:G:4686:LEU:HA	1:G:4690:GLU:H	1.82	0.43
1:A:667:MET:HG2	1:A:668:VAL:O	2.19	0.43
1:A:1155:LEU:O	1:A:1157:GLU:N	2.52	0.43
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.83	0.43
1:A:4552:LEU:HD21	1:A:4663:CYS:SG	2.59	0.43
1:C:347:PHE:CE1	1:C:387:ALA:HB2	2.51	0.43
1:C:833:GLY:HA3	1:C:838:HIS:HD2	1.84	0.43
1:C:875:ALA:CB	1:C:922:LEU:HA	2.49	0.43
1:C:1127:HIS:C	1:C:1129:GLY:H	2.26	0.43
1:C:1237:TRP:HD1	1:C:1611:HIS:HA	1.84	0.43
1:C:1293:LEU:HD23	1:C:1584:ARG:HG2	2.01	0.43
1:C:1591:CYS:N	1:C:1592:PRO:HD2	2.33	0.43
1:C:2875:ALA:HB2	1:C:2927:LEU:HD12	2.00	0.43
1:C:3969:ILE:O	1:C:3969:ILE:HG22	2.18	0.43
1:E:210:GLU:HG2	1:E:273:HIS:HE1	1.83	0.43
1:E:545:ASP:OD1	1:E:546:TRP:N	2.52	0.43
1:E:1663:HIS:O	1:E:1667:LEU:HD13	2.19	0.43
1:E:1781:CYS:SG	1:E:1783:VAL:HG22	2.59	0.43
1:E:2143:THR:HG23	1:E:3654:LEU:HD11	1.99	0.43
1:E:3798:LEU:HD12	1:E:3880:PHE:CE1	2.53	0.43
1:E:3969:ILE:O	1:E:3969:ILE:HG22	2.18	0.43
2:F:74:LEU:HB2	2:F:99:PHE:HB2	2.01	0.43
1:G:62:LEU:HA	1:G:65:CYS:SG	2.58	0.43
1:G:229:GLU:HA	1:G:249:GLY:HA2	2.00	0.43
1:G:755:ILE:O	1:G:767:VAL:HG22	2.18	0.43
1:G:2242:ILE:HD11	1:G:2246:ASN:ND2	2.33	0.43
1:G:2326:CYS:O	1:G:2329:GLU:HG2	2.19	0.43
1:G:3649:ALA:O	1:G:3653:PHE:N	2.43	0.43
1:G:4677:LEU:CD1	1:G:4702:ASP:HB3	2.48	0.43
1:A:15:ARG:HB2	1:A:18:ASP:OD2	2.18	0.43
1:A:1232:ARG:HG3	1:A:1828:ASP:OD2	2.18	0.43
1:A:1254:HIS:CD2	1:A:1280:GLN:HB3	2.52	0.43
1:A:1433:TYR:HE1	1:A:1578:ALA:HB3	1.83	0.43
1:A:2515:GLN:O	1:A:2518:LEU:HB3	2.19	0.43
1:A:4059:LEU:HD22	1:A:4167:ALA:HB2	1.99	0.43
1:A:4562:LEU:HD11	1:A:4656:LEU:HD13	2.00	0.43
1:A:4822:THR:CG2	1:G:4839:MET:HG3	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4928:LEU:HD23	1:A:4931:ILE:HD12	2.00	0.43
1:A:4973:HIS:NE2	1:A:4976:GLU:HB3	2.34	0.43
1:C:35:LEU:HD13	1:C:49:LEU:HD22	2.00	0.43
1:C:626:LEU:HB2	1:C:627:PRO:HD3	2.01	0.43
1:C:764:VAL:O	1:C:764:VAL:HG12	2.17	0.43
1:C:2211:MET:HE3	1:C:2215:LEU:HD11	2.00	0.43
1:C:2242:ILE:HD11	1:C:2246:ASN:ND2	2.33	0.43
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.17	0.43
1:C:3666:ASP:O	1:C:3669:PHE:HD2	2.01	0.43
1:C:4723:LYS:HA	1:C:4726:ASP:HB2	1.99	0.43
1:C:4917:ASP:OD2	1:E:4892:ARG:NE	2.52	0.43
1:E:449:ILE:HG12	1:E:525:LEU:HA	2.00	0.43
1:E:1858:ASP:O	1:E:1862:ILE:HG12	2.18	0.43
1:E:2207:VAL:HG11	1:E:2235:PHE:CD2	2.54	0.43
1:E:3666:ASP:O	1:E:3669:PHE:HD2	2.01	0.43
1:E:3891:LEU:HB3	1:E:3899:PHE:HE2	1.81	0.43
1:E:4661:TYR:HE2	1:E:4789:PHE:HB2	1.84	0.43
1:E:4721:LYS:HB2	1:E:4741:LEU:HD13	2.00	0.43
1:E:4934:GLY:HA2	1:E:4937:ILE:HG12	2.01	0.43
1:G:696:PRO:HG2	1:G:1613:LEU:HD22	2.01	0.43
1:G:1087:ARG:HB3	1:G:1223:PHE:HD1	1.82	0.43
1:G:1433:TYR:HE1	1:G:1578:ALA:HB3	1.83	0.43
1:G:1667:LEU:HD23	1:G:1710:GLY:CA	2.48	0.43
1:G:4204:GLN:CG	1:G:4245:MET:HG2	2.49	0.43
1:G:4724:VAL:HG13	1:G:4728:HIS:HD2	1.83	0.43
1:G:4927:ILE:O	1:G:4931:ILE:N	2.50	0.43
2:H:27:THR:HA	2:H:38:SER:HA	2.00	0.43
1:A:548:VAL:HG21	1:A:582:HIS:HB3	2.00	0.43
1:A:565:TYR:HB2	1:A:602:VAL:HG22	2.00	0.43
1:A:1663:HIS:O	1:A:1667:LEU:HD13	2.19	0.43
1:A:1781:CYS:SG	1:A:1783:VAL:HG22	2.59	0.43
1:A:2211:MET:HE3	1:A:2215:LEU:HD11	2.00	0.43
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.18	0.43
1:A:2773:ASN:HD22	1:A:2775:TRP:NE1	2.17	0.43
1:A:3927:GLN:HG3	1:A:3928:GLU:N	2.32	0.43
1:A:4205:TRP:CZ2	1:A:4214:LYS:HE2	2.53	0.43
1:A:4208:PRO:HB2	1:A:4209:GLN:H	1.70	0.43
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.19	0.43
1:A:4869:GLU:O	1:A:4871:GLU:N	2.44	0.43
1:C:294:THR:HG22	1:C:296:ASP:H	1.84	0.43
1:C:565:TYR:HB2	1:C:602:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4914:VAL:O	1:C:4918:ILE:HG12	2.19	0.43
1:E:650:VAL:N	1:E:777:PHE:O	2.47	0.43
1:E:781:VAL:HG11	1:E:789:VAL:HG21	2.01	0.43
1:E:1591:CYS:N	1:E:1592:PRO:HD2	2.34	0.43
1:E:1598:GLN:O	1:E:1600:LEU:N	2.50	0.43
1:E:2515:GLN:O	1:E:2518:LEU:HB3	2.19	0.43
1:E:3887:PHE:O	1:E:3891:LEU:HD13	2.19	0.43
1:E:4552:LEU:HD21	1:E:4663:CYS:SG	2.59	0.43
1:E:4852:THR:HG21	1:E:4883:TYR:HB2	2.01	0.43
1:G:281:ARG:HG2	1:G:312:THR:HG23	2.01	0.43
1:G:1663:HIS:O	1:G:1666:THR:OG1	2.18	0.43
1:G:2773:ASN:HD22	1:G:2775:TRP:NE1	2.17	0.43
1:G:4204:GLN:HG2	1:G:4245:MET:HG2	2.01	0.43
1:G:4239:GLU:OE1	1:G:4675:LYS:HD2	2.17	0.43
1:G:4963:ILE:HD11	1:G:5025:GLY:O	2.18	0.43
1:A:281:ARG:HG2	1:A:312:THR:HG23	2.01	0.43
1:A:347:PHE:CE1	1:A:387:ALA:HB2	2.51	0.43
1:A:449:ILE:HG12	1:A:525:LEU:HA	2.01	0.43
1:A:575:LEU:HD22	1:A:606:LEU:HA	2.01	0.43
1:A:622:THR:HG21	1:A:1681:VAL:HG13	2.00	0.43
1:A:1660:GLN:NE2	1:A:1704:PRO:HB2	2.33	0.43
1:A:1864:LYS:NZ	1:A:1869:GLU:C	2.77	0.43
1:A:1961:PHE:CZ	1:A:2063:LEU:HD23	2.54	0.43
1:A:4205:TRP:CZ2	1:A:4986:ALA:HB2	2.53	0.43
1:A:4826:ILE:HD11	1:G:4836:GLN:OE1	2.19	0.43
1:A:4888:TYR:CZ	1:G:4917:ASP:OD2	2.71	0.43
2:B:54:GLU:HG3	2:B:55:VAL:HG13	2.00	0.43
1:C:4239:GLU:OE1	1:C:4675:LYS:HD2	2.18	0.43
1:C:4661:TYR:HE2	1:C:4789:PHE:HB2	1.84	0.43
1:C:4839:MET:HG3	1:E:4822:THR:CG2	2.41	0.43
1:C:4869:GLU:O	1:C:4871:GLU:N	2.44	0.43
1:E:607:CYS:SG	1:E:618:GLN:HG2	2.58	0.43
1:E:1087:ARG:HB3	1:E:1223:PHE:HD1	1.82	0.43
1:E:1126:GLY:HA2	1:E:1143:TRP:HE1	1.84	0.43
1:E:1864:LYS:NZ	1:E:1869:GLU:C	2.77	0.43
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.83	0.43
1:E:3798:LEU:O	1:E:3802:ILE:HG12	2.19	0.43
1:E:4963:ILE:HD11	1:E:5025:GLY:O	2.18	0.43
1:G:622:THR:HG21	1:G:1681:VAL:HG13	2.01	0.43
1:G:1591:CYS:N	1:G:1592:PRO:HD2	2.34	0.43
1:G:1638:ALA:HA	1:G:1649:ASP:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2347:GLU:O	1:G:2351:ASN:ND2	2.40	0.43
1:G:4036:VAL:HG12	1:G:4037:ASN:N	2.34	0.43
1:G:4185:GLY:HA2	1:G:5009:TYR:CE2	2.54	0.43
1:G:4928:LEU:HD23	1:G:4931:ILE:HD12	2.01	0.43
1:G:4965:SER:HA	1:G:4975:PHE:CD1	2.53	0.43
1:A:715:GLY:HA2	1:A:719:LEU:HA	2.01	0.42
1:A:1116:GLY:HA2	1:A:1121:ALA:HB3	2.00	0.42
1:A:1293:LEU:HD23	1:A:1584:ARG:HG2	2.00	0.42
1:A:1653:LEU:HD23	1:A:1707:LEU:CD1	2.49	0.42
1:A:1717:SER:HA	1:A:1721:GLU:CB	2.49	0.42
1:A:2505:PHE:CE1	1:A:2509:VAL:HG21	2.54	0.42
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.18	0.42
1:A:4223:ASN:HD21	1:A:4946:GLN:NE2	2.17	0.42
1:A:4914:VAL:O	1:A:4918:ILE:HG12	2.19	0.42
2:B:74:LEU:HB2	2:B:99:PHE:HB2	2.01	0.42
1:C:59:PRO:HD2	1:C:304:ALA:HB1	2.01	0.42
1:C:104:GLY:HA3	1:C:159:GLU:HG2	2.00	0.42
1:C:1660:GLN:NE2	1:C:1704:PRO:HB2	2.33	0.42
1:C:2799:GLU:O	1:C:2803:GLU:HG2	2.19	0.42
1:C:4960:ILE:HD13	1:C:4983:HIS:HB3	2.00	0.42
2:D:78:PRO:HA	2:D:81:ALA:HB3	2.01	0.42
1:E:59:PRO:HD2	1:E:304:ALA:HB1	2.00	0.42
1:E:2290:LEU:O	1:E:3849:ARG:NH1	2.52	0.42
1:E:2802:LYS:O	1:E:2806:ARG:HG3	2.19	0.42
1:E:4097:MET:HG3	1:E:4108:ILE:CG2	2.49	0.42
1:E:4693:GLY:O	1:E:4695:ASP:N	2.52	0.42
1:G:575:LEU:HD22	1:G:606:LEU:HA	2.01	0.42
1:G:1116:GLY:HA2	1:G:1121:ALA:HB3	2.00	0.42
1:G:1126:GLY:HA2	1:G:1143:TRP:HE1	1.84	0.42
1:G:1714:LEU:O	1:G:1718:ILE:HG12	2.19	0.42
1:G:2799:GLU:O	1:G:2803:GLU:HG2	2.19	0.42
1:G:4684:ASP:OD2	1:G:4686:LEU:HB3	2.18	0.42
1:A:545:ASP:OD1	1:A:546:TRP:N	2.52	0.42
1:A:2124:LEU:HD11	1:A:2128:TYR:HE2	1.85	0.42
1:A:2335:LEU:O	1:A:2339:VAL:HG22	2.19	0.42
1:A:2339:VAL:HG23	1:A:2340:PHE:N	2.34	0.42
1:A:2799:GLU:O	1:A:2803:GLU:HG2	2.20	0.42
1:C:103:TYR:CE2	1:C:163:VAL:HA	2.53	0.42
1:C:293:LEU:HB2	1:C:378:LEU:HD12	2.00	0.42
1:C:462:GLU:HG3	1:C:3823:LYS:HZ3	1.83	0.42
1:C:545:ASP:OD1	1:C:546:TRP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:646:PRO:HB3	1:C:793:LEU:HD11	2.01	0.42
1:C:1638:ALA:HA	1:C:1649:ASP:HA	2.01	0.42
1:C:1738:LEU:HD11	1:C:2143:THR:HB	2.01	0.42
1:C:1849:LEU:HD13	1:C:1854:PHE:CD2	2.48	0.42
1:C:1849:LEU:HG	1:C:1945:TYR:CD2	2.54	0.42
1:C:4552:LEU:HD21	1:C:4663:CYS:SG	2.58	0.42
1:C:4562:LEU:HD11	1:C:4656:LEU:HD13	2.00	0.42
1:C:4685:GLY:O	1:C:4689:THR:N	2.53	0.42
1:E:35:LEU:HD13	1:E:49:LEU:HD22	2.00	0.42
1:E:1738:LEU:HD11	1:E:2143:THR:HB	2.01	0.42
1:E:1805:GLU:HA	1:E:1808:ARG:HG2	1.99	0.42
1:E:4577:LEU:HG	1:E:4580:TYR:HE2	1.84	0.42
1:E:4860:ARG:HD3	1:G:4582:VAL:HG11	2.02	0.42
1:E:4865:LYS:HB2	1:E:4874:MET:HB3	2.00	0.42
1:G:61:ASP:OD2	1:G:402:ARG:NH2	2.53	0.42
1:G:548:VAL:HG21	1:G:582:HIS:HB3	2.00	0.42
1:G:1598:GLN:O	1:G:1600:LEU:N	2.50	0.42
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.20	0.42
1:G:4181:ILE:HB	1:G:4988:TYR:CE1	2.54	0.42
1:G:4665:LYS:O	1:G:4669:VAL:HG23	2.20	0.42
1:A:229:GLU:HA	1:A:249:GLY:HA2	2.00	0.42
1:A:665:GLU:HB2	1:A:792:LEU:HB2	2.02	0.42
1:A:1715:LEU:HD21	1:A:1807:LEU:HD11	2.01	0.42
1:A:2283:ASN:HB2	1:A:2286:LEU:HB3	2.01	0.42
1:A:2763:HIS:NE2	1:A:2792:ARG:O	2.50	0.42
1:C:244:LEU:HD23	1:C:300:VAL:HG12	2.01	0.42
1:C:401:ALA:HA	1:C:404:ILE:HD12	2.01	0.42
1:C:453:GLU:HA	1:C:454:PRO:HD3	1.88	0.42
1:C:622:THR:HG21	1:C:1681:VAL:HG13	2.01	0.42
1:C:1078:GLU:HG3	1:C:1237:TRP:CZ2	2.54	0.42
1:C:1667:LEU:HD23	1:C:1710:GLY:CA	2.47	0.42
1:C:2137:ALA:HA	1:C:2140:ARG:HH21	1.84	0.42
1:C:2339:VAL:HG23	1:C:2340:PHE:N	2.34	0.42
1:C:3798:LEU:O	1:C:3802:ILE:HG12	2.19	0.42
1:C:3924:LEU:O	1:C:3928:GLU:HG3	2.19	0.42
1:C:4057:MET:HA	1:C:4060:LYS:HG2	2.00	0.42
1:C:4205:TRP:CZ2	1:C:4986:ALA:HB2	2.54	0.42
1:E:244:LEU:HD23	1:E:300:VAL:HG12	2.02	0.42
1:E:548:VAL:HG21	1:E:582:HIS:HB3	2.00	0.42
1:E:935:LEU:HB2	1:E:937:CYS:SG	2.59	0.42
1:E:1112:ASP:HA	1:E:1607:ARG:HH11	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1433:TYR:HE1	1:E:1578:ALA:HB3	1.83	0.42
1:E:1831:GLY:HA3	1:E:1836:PHE:HB2	2.01	0.42
1:E:2773:ASN:HD22	1:E:2775:TRP:NE1	2.17	0.42
1:E:3919:THR:HG22	1:E:3965:LEU:HD11	2.02	0.42
1:E:4076:ALA:HB2	1:E:4100:GLN:HB3	2.00	0.42
2:F:78:PRO:HA	2:F:81:ALA:HB3	2.02	0.42
1:G:712:TYR:HB3	1:G:768:PHE:CZ	2.55	0.42
1:G:875:ALA:CB	1:G:922:LEU:HA	2.49	0.42
1:G:1155:LEU:O	1:G:1157:GLU:N	2.51	0.42
1:G:1205:GLY:HA3	1:G:1227:ALA:HB3	2.01	0.42
1:G:1254:HIS:CD2	1:G:1280:GLN:H	2.37	0.42
1:G:1736:VAL:HA	1:G:1737:PRO:HD2	1.87	0.42
1:A:833:GLY:HA3	1:A:838:HIS:HD2	1.85	0.42
1:A:993:HIS:CE1	1:A:1020:ARG:HB3	2.49	0.42
1:A:1078:GLU:HG3	1:A:1237:TRP:CZ2	2.54	0.42
1:A:3798:LEU:O	1:A:3802:ILE:HG12	2.19	0.42
1:A:5011:TRP:O	1:A:5015:GLN:HG2	2.18	0.42
1:C:681:HIS:O	1:C:682:LEU:HD12	2.19	0.42
1:C:1781:CYS:SG	1:C:1783:VAL:HG22	2.59	0.42
1:C:1864:LYS:NZ	1:C:1869:GLU:C	2.77	0.42
1:C:2212:VAL:HG21	1:C:2256:TYR:CE2	2.55	0.42
1:C:2335:LEU:O	1:C:2339:VAL:HG22	2.19	0.42
1:C:4028:LEU:HA	1:C:4028:LEU:HD23	1.79	0.42
1:E:107:ILE:HG13	1:E:148:TRP:O	2.20	0.42
1:E:229:GLU:HA	1:E:249:GLY:HA2	2.01	0.42
1:E:347:PHE:CE1	1:E:387:ALA:HB2	2.51	0.42
1:E:1127:HIS:C	1:E:1129:GLY:H	2.26	0.42
1:E:1254:HIS:CD2	1:E:1280:GLN:H	2.38	0.42
1:E:2283:ASN:HB2	1:E:2286:LEU:HB3	2.01	0.42
1:E:2505:PHE:CE1	1:E:2509:VAL:HG21	2.54	0.42
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.19	0.42
1:E:4028:LEU:HA	1:E:4028:LEU:HD23	1.79	0.42
1:E:4038:GLY:O	1:E:4042:ARG:HG2	2.19	0.42
1:E:4666:VAL:HG13	1:E:4783:ILE:HG12	2.02	0.42
1:G:736:HIS:NE2	1:G:739:ALA:HB2	2.30	0.42
1:G:1293:LEU:HD23	1:G:1584:ARG:HG2	2.01	0.42
1:G:4192:ARG:HH11	1:G:5028:PHE:HB3	1.83	0.42
1:G:4567:LEU:HD11	1:G:4816:ILE:HA	2.01	0.42
2:H:24:VAL:HG21	2:H:59:TRP:HZ2	1.83	0.42
1:A:935:LEU:HB2	1:A:937:CYS:SG	2.60	0.42
1:A:1254:HIS:CD2	1:A:1280:GLN:H	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4053:SER:HA	1:A:4056:GLU:HB3	2.01	0.42
1:A:4057:MET:HA	1:A:4060:LYS:HG2	1.99	0.42
1:A:4666:VAL:HG13	1:A:4783:ILE:HG12	2.01	0.42
1:C:792:LEU:HD22	1:C:799:GLU:O	2.20	0.42
1:C:2505:PHE:CE1	1:C:2509:VAL:HG21	2.54	0.42
1:C:2802:LYS:O	1:C:2806:ARG:HG3	2.20	0.42
1:C:3915:ILE:HG21	1:C:3915:ILE:HD13	1.75	0.42
1:C:4038:GLY:O	1:C:4042:ARG:HG2	2.19	0.42
1:C:4097:MET:HG3	1:C:4108:ILE:HG23	2.02	0.42
1:C:5027:CYS:H	1:C:5030:LYS:HB2	1.85	0.42
1:E:281:ARG:HG2	1:E:312:THR:HG23	2.01	0.42
1:E:626:LEU:HB2	1:E:627:PRO:HD3	2.01	0.42
1:E:1074:ILE:O	1:E:1238:PHE:HA	2.20	0.42
1:E:1155:LEU:O	1:E:1157:GLU:N	2.52	0.42
1:E:1660:GLN:NE2	1:E:1704:PRO:HB2	2.35	0.42
1:E:2212:VAL:HG21	1:E:2256:TYR:CE2	2.55	0.42
1:G:545:ASP:OD1	1:G:546:TRP:N	2.53	0.42
1:G:781:VAL:HG11	1:G:789:VAL:HG21	2.01	0.42
1:G:935:LEU:HB2	1:G:937:CYS:SG	2.59	0.42
1:G:1868:PRO:HD3	1:G:1925:GLY:HA3	2.01	0.42
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.19	0.42
1:G:2465:ASP:O	1:G:2467:VAL:N	2.52	0.42
1:G:2867:LEU:HD22	1:G:2871:LEU:HB3	2.02	0.42
1:G:4205:TRP:CE3	1:G:4205:TRP:O	2.72	0.42
1:G:4888:TYR:O	1:G:4892:ARG:NH2	2.43	0.42
1:A:107:ILE:HG13	1:A:148:TRP:O	2.19	0.42
1:A:468:LEU:O	1:A:472:ARG:HG2	2.20	0.42
1:A:875:ALA:CB	1:A:922:LEU:HA	2.49	0.42
1:A:1126:GLY:HA2	1:A:1143:TRP:HE1	1.83	0.42
1:A:1637:MET:O	1:A:1650:ILE:N	2.36	0.42
1:A:2754:PHE:HE1	1:A:2933:ASN:CG	2.27	0.42
1:A:3965:LEU:HA	1:A:3968:TYR:HD2	1.82	0.42
1:C:210:GLU:HG2	1:C:273:HIS:HE1	1.83	0.42
1:C:229:GLU:HA	1:C:249:GLY:HA2	2.00	0.42
1:C:281:ARG:HG2	1:C:312:THR:HG23	2.02	0.42
1:C:541:SER:HB2	1:C:577:ILE:HD12	2.01	0.42
1:C:1663:HIS:O	1:C:1667:LEU:HD13	2.19	0.42
1:C:1727:ARG:HD2	1:C:1772:ARG:HD3	2.02	0.42
1:C:2283:ASN:HB2	1:C:2286:LEU:HB3	2.01	0.42
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.18	0.42
1:C:4235:VAL:O	1:C:4236:SER:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:61:ASP:OD2	1:E:402:ARG:NH2	2.53	0.42
1:E:667:MET:HG2	1:E:668:VAL:O	2.19	0.42
1:E:681:HIS:O	1:E:682:LEU:HD12	2.20	0.42
1:E:712:TYR:HB3	1:E:768:PHE:CZ	2.55	0.42
1:E:1205:GLY:HA3	1:E:1227:ALA:HB3	2.00	0.42
1:E:1232:ARG:HG3	1:E:1828:ASP:OD2	2.19	0.42
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.19	0.42
1:E:3915:ILE:HG21	1:E:3915:ILE:HD13	1.75	0.42
1:E:3924:LEU:O	1:E:3928:GLU:HG3	2.20	0.42
1:E:4799:SER:HA	1:E:4812:HIS:CE1	2.55	0.42
1:G:107:ILE:HG13	1:G:148:TRP:O	2.20	0.42
1:G:1211:LEU:O	1:G:1213:PHE:N	2.53	0.42
1:G:2505:PHE:CE1	1:G:2509:VAL:HG21	2.54	0.42
1:A:1246:GLU:HA	1:A:1247:PRO:HD3	1.87	0.42
1:A:1528:THR:HG22	1:A:1538:THR:H	1.85	0.42
1:A:1598:GLN:O	1:A:1600:LEU:N	2.49	0.42
1:A:2802:LYS:O	1:A:2806:ARG:HG3	2.19	0.42
1:A:4030:LEU:HD23	1:A:4031:LEU:HD12	2.02	0.42
1:A:4076:ALA:HB2	1:A:4100:GLN:HB3	2.00	0.42
1:A:5027:CYS:H	1:A:5030:LYS:HB2	1.85	0.42
1:C:468:LEU:O	1:C:472:ARG:HG2	2.20	0.42
1:C:548:VAL:HG21	1:C:582:HIS:HB3	2.01	0.42
1:C:667:MET:HA	1:C:743:VAL:HA	2.01	0.42
1:C:1077:ALA:O	1:C:1189:LEU:HD13	2.20	0.42
1:C:1187:GLY:HA2	1:C:1188:PHE:HA	1.91	0.42
1:C:1456:ASP:O	1:C:1457:TYR:CB	2.67	0.42
1:C:3842:LEU:HB3	1:C:3929:SER:OG	2.20	0.42
1:C:3887:PHE:O	1:C:3891:LEU:HD13	2.19	0.42
1:C:3919:THR:HG22	1:C:3965:LEU:HD11	2.02	0.42
1:C:4223:ASN:HD21	1:C:4946:GLN:NE2	2.16	0.42
1:C:4893:ALA:C	1:C:4895:GLY:H	2.27	0.42
1:C:4973:HIS:NE2	1:C:4976:GLU:HB3	2.35	0.42
1:E:1211:LEU:O	1:E:1213:PHE:N	2.53	0.42
1:E:1734:TYR:HB2	1:E:2141:ALA:HB2	2.01	0.42
1:E:1769:THR:OG1	1:E:1770:SER:N	2.53	0.42
1:E:2339:VAL:HG23	1:E:2340:PHE:N	2.35	0.42
1:G:35:LEU:HD13	1:G:49:LEU:HD22	2.00	0.42
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.55	0.42
1:G:347:PHE:CE1	1:G:387:ALA:HB2	2.51	0.42
1:G:646:PRO:HB3	1:G:793:LEU:HD11	2.02	0.42
1:G:1849:LEU:HG	1:G:1945:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2255:SER:OG	1:G:2294:ASP:OD1	2.36	0.42
1:G:2287:ALA:O	1:G:2349:ASN:ND2	2.38	0.42
1:G:2340:PHE:CG	1:G:2435:ARG:NH1	2.88	0.42
1:G:2761:TYR:CE2	1:G:2862:LEU:HD22	2.54	0.42
1:G:2868:SER:OG	1:G:2871:LEU:HD13	2.19	0.42
1:G:3840:SER:O	1:G:3922:TYR:OH	2.25	0.42
1:G:4661:TYR:OH	1:G:4786:ASP:OD2	2.36	0.42
1:G:4888:TYR:O	1:G:4892:ARG:HD3	2.20	0.42
1:A:589:LEU:HG	1:A:593:HIS:HD2	1.84	0.42
1:A:665:GLU:OE2	1:A:802:PHE:HB3	2.20	0.42
1:A:792:LEU:HD22	1:A:799:GLU:O	2.20	0.42
1:A:1297:PHE:CE1	1:A:1519:LEU:HD11	2.55	0.42
1:A:2212:VAL:HG21	1:A:2256:TYR:CE2	2.55	0.42
1:A:2735:PHE:CD2	1:A:2891:LYS:HD2	2.55	0.42
1:A:3887:PHE:O	1:A:3891:LEU:HD13	2.19	0.42
1:A:4038:GLY:O	1:A:4042:ARG:HG2	2.19	0.42
1:A:4821:LYS:HD3	1:A:4824:ARG:HE	1.84	0.42
1:A:4913:ARG:NH1	1:A:4917:ASP:HB2	2.35	0.42
1:A:4963:ILE:HG23	1:A:4963:ILE:HD12	1.81	0.42
2:B:78:PRO:HA	2:B:81:ALA:HB3	2.02	0.42
1:C:639:ASN:HA	1:C:1635:THR:HG22	2.01	0.42
1:C:696:PRO:HG2	1:C:1613:LEU:HD22	2.01	0.42
1:C:781:VAL:HG11	1:C:789:VAL:HG21	2.01	0.42
1:C:1093:GLU:HA	1:C:1148:VAL:HG13	2.02	0.42
1:C:1211:LEU:O	1:C:1213:PHE:N	2.53	0.42
1:C:2290:LEU:O	1:C:3849:ARG:NH1	2.52	0.42
1:C:2465:ASP:O	1:C:2467:VAL:N	2.52	0.42
1:C:2473:PRO:CB	1:C:2499:LYS:HZ3	2.32	0.42
1:C:4097:MET:HG3	1:C:4108:ILE:CG2	2.50	0.42
1:C:4562:LEU:HD21	1:C:4656:LEU:CD1	2.49	0.42
1:C:4576:ILE:CG2	1:C:4643:LEU:HD12	2.49	0.42
1:C:4856:PHE:CZ	1:E:4581:LYS:HA	2.54	0.42
2:D:74:LEU:HB2	2:D:99:PHE:HB2	2.01	0.42
1:E:575:LEU:HD22	1:E:606:LEU:HA	2.01	0.42
1:E:646:PRO:HB3	1:E:793:LEU:HD11	2.02	0.42
1:E:875:ALA:CB	1:E:922:LEU:HA	2.49	0.42
1:E:1077:ALA:O	1:E:1189:LEU:HD13	2.20	0.42
1:E:4562:LEU:HD11	1:E:4656:LEU:HD13	2.01	0.42
1:E:4631:PHE:CZ	1:E:4639:MET:HE2	2.46	0.42
1:E:4917:ASP:CB	1:G:4888:TYR:HE1	2.32	0.42
1:E:5027:CYS:H	1:E:5030:LYS:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:54:GLU:HG3	2:F:55:VAL:HG13	2.00	0.42
1:G:715:GLY:HA2	1:G:719:LEU:HA	2.01	0.42
1:G:1684:ALA:O	1:G:1687:SER:OG	2.17	0.42
1:G:1727:ARG:HD2	1:G:1772:ARG:HD3	2.02	0.42
1:G:1849:LEU:HD13	1:G:1854:PHE:CD2	2.48	0.42
1:G:2212:VAL:HG21	1:G:2256:TYR:CE2	2.55	0.42
1:A:646:PRO:HB3	1:A:793:LEU:HD11	2.01	0.42
1:A:737:LEU:HD11	2:B:7:ILE:CG2	2.39	0.42
1:A:781:VAL:HG11	1:A:789:VAL:HG21	2.01	0.42
1:A:1670:TYR:HB2	1:A:1714:LEU:HD21	2.02	0.42
1:A:3919:THR:HG22	1:A:3965:LEU:HD11	2.01	0.42
1:A:4097:MET:HG3	1:A:4108:ILE:CG2	2.50	0.42
1:C:667:MET:HG2	1:C:668:VAL:O	2.19	0.42
1:C:1074:ILE:O	1:C:1238:PHE:HA	2.20	0.42
1:C:1254:HIS:CD2	1:C:1280:GLN:H	2.38	0.42
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	2.01	0.42
1:C:2340:PHE:CG	1:C:2435:ARG:NH1	2.87	0.42
1:E:207:SER:OG	1:E:208:CYS:N	2.51	0.42
1:E:414:PHE:O	1:E:418:LEU:HD13	2.20	0.42
1:E:468:LEU:O	1:E:472:ARG:HG2	2.20	0.42
1:E:495:ASN:HB3	1:E:553:ARG:HH22	1.85	0.42
1:E:1078:GLU:HG3	1:E:1237:TRP:CZ2	2.54	0.42
1:E:2335:LEU:O	1:E:2339:VAL:HG22	2.19	0.42
1:E:2465:ASP:O	1:E:2467:VAL:N	2.52	0.42
1:E:2735:PHE:CD2	1:E:2891:LYS:HD2	2.55	0.42
1:E:3842:LEU:HB3	1:E:3929:SER:OG	2.20	0.42
1:E:4097:MET:HG3	1:E:4108:ILE:HG23	2.02	0.42
1:E:4973:HIS:NE2	1:E:4976:GLU:HB3	2.34	0.42
1:G:484:LEU:HD11	1:G:536:ASN:OD1	2.20	0.42
1:G:1663:HIS:O	1:G:1667:LEU:HD13	2.19	0.42
1:G:3923:LEU:HD12	1:G:3961:VAL:CG1	2.50	0.42
1:A:104:GLY:HA3	1:A:159:GLU:HG2	2.01	0.42
1:A:643:SER:HA	1:A:782:SER:HA	2.02	0.42
1:A:1077:ALA:O	1:A:1189:LEU:HD13	2.20	0.42
1:A:2121:PHE:CD1	1:A:3701:LEU:HD12	2.55	0.42
1:A:4576:ILE:HG22	1:A:4643:LEU:HD12	2.02	0.42
1:A:4641:PRO:O	1:A:4644:TRP:HB3	2.20	0.42
1:A:4865:LYS:HB2	1:A:4874:MET:HB3	2.01	0.42
1:C:935:LEU:HB2	1:C:937:CYS:SG	2.60	0.42
1:C:1433:TYR:HE1	1:C:1578:ALA:HB3	1.83	0.42
1:C:2773:ASN:HD22	1:C:2775:TRP:NE1	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4076:ALA:HB2	1:C:4100:GLN:HB3	2.01	0.42
1:C:4989:MET:O	1:C:4993:MET:HG2	2.20	0.42
1:E:544:LEU:O	1:E:548:VAL:HG23	2.20	0.42
1:E:589:LEU:HG	1:E:593:HIS:HD2	1.85	0.42
1:E:715:GLY:HA2	1:E:719:LEU:HA	2.01	0.42
1:E:1727:ARG:HD2	1:E:1772:ARG:HD3	2.02	0.42
1:E:2112:GLN:O	1:E:2113:SER:OG	2.24	0.42
1:E:2121:PHE:CD1	1:E:3701:LEU:HD12	2.55	0.42
1:E:4181:ILE:HB	1:E:4988:TYR:CE1	2.55	0.42
1:G:42:PHE:CE1	1:G:116:MET:HE3	2.55	0.42
1:G:102:LEU:HD12	1:G:105:HIS:CE1	2.55	0.42
1:G:544:LEU:O	1:G:548:VAL:HG23	2.20	0.42
1:G:589:LEU:HG	1:G:593:HIS:HD2	1.84	0.42
1:G:643:SER:HA	1:G:782:SER:HA	2.01	0.42
1:G:716:PHE:HD2	1:G:722:TRP:CH2	2.38	0.42
1:G:1078:GLU:HG3	1:G:1237:TRP:CZ2	2.55	0.42
1:G:1187:GLY:HA2	1:G:1188:PHE:HA	1.91	0.42
1:G:2339:VAL:HG23	1:G:2340:PHE:N	2.35	0.42
2:H:11:ASP:OD1	2:H:12:GLY:N	2.53	0.42
1:A:441:VAL:HG12	1:A:445:LEU:HD13	2.02	0.41
1:A:1074:ILE:O	1:A:1238:PHE:HA	2.20	0.41
1:A:2290:LEU:O	1:A:3849:ARG:NH1	2.53	0.41
1:A:3996:PHE:HB3	1:A:4020:GLN:OE1	2.20	0.41
1:A:4097:MET:HG3	1:A:4108:ILE:HG23	2.02	0.41
1:A:4721:LYS:HB2	1:A:4741:LEU:HD13	2.01	0.41
1:A:4779:LYS:O	1:A:4783:ILE:HG13	2.21	0.41
1:C:107:ILE:HG13	1:C:148:TRP:O	2.20	0.41
1:C:111:HIS:CD2	1:C:113:HIS:H	2.38	0.41
1:C:441:VAL:HG12	1:C:445:LEU:HD13	2.02	0.41
1:C:495:ASN:HB3	1:C:553:ARG:HH22	1.85	0.41
1:C:589:LEU:HG	1:C:593:HIS:HD2	1.85	0.41
1:C:857:ASP:HA	1:C:859:VAL:H	1.85	0.41
1:C:1810:LYS:O	1:C:1814:MET:HG2	2.20	0.41
1:C:1831:GLY:HA3	1:C:1836:PHE:HB2	2.02	0.41
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.18	0.41
1:C:3996:PHE:HB3	1:C:4020:GLN:OE1	2.20	0.41
1:C:4799:SER:HA	1:C:4812:HIS:CE1	2.55	0.41
1:C:4852:THR:HG21	1:C:4883:TYR:HB2	2.01	0.41
1:E:1667:LEU:HD23	1:E:1710:GLY:CA	2.48	0.41
1:E:2340:PHE:CG	1:E:2435:ARG:NH1	2.87	0.41
1:E:4053:SER:HA	1:E:4056:GLU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:665:GLU:OE2	1:G:802:PHE:HB3	2.20	0.41
1:G:1232:ARG:HG3	1:G:1828:ASP:OD2	2.19	0.41
1:A:207:SER:OG	1:A:208:CYS:N	2.51	0.41
1:A:541:SER:HB2	1:A:577:ILE:HD12	2.02	0.41
1:A:696:PRO:HG2	1:A:1613:LEU:HD22	2.02	0.41
1:A:718:GLY:H	1:A:737:LEU:HG	1.85	0.41
1:A:765:GLN:NE2	1:A:1478:ASP:HA	2.35	0.41
1:A:1074:ILE:HG23	1:A:1115:LEU:HD11	2.03	0.41
1:A:1087:ARG:NH1	1:A:1221:GLU:O	2.49	0.41
1:A:1944:GLU:HG3	1:A:2126:ARG:NH1	2.35	0.41
1:A:4653:VAL:HA	1:A:4656:LEU:HG	2.02	0.41
1:A:4685:GLY:O	1:A:4689:THR:N	2.53	0.41
1:C:643:SER:HA	1:C:782:SER:HA	2.02	0.41
1:C:712:TYR:HB3	1:C:768:PHE:CZ	2.55	0.41
1:C:1089:TYR:CB	1:C:1223:PHE:HB3	2.50	0.41
1:C:1297:PHE:CE1	1:C:1519:LEU:HD11	2.55	0.41
1:C:2121:PHE:CD1	1:C:3701:LEU:HD12	2.55	0.41
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.83	0.41
1:C:4641:PRO:O	1:C:4644:TRP:HB3	2.20	0.41
1:E:530:ILE:O	1:E:530:ILE:CG2	2.68	0.41
1:E:1074:ILE:HG23	1:E:1115:LEU:HD11	2.02	0.41
1:E:1868:PRO:HD3	1:E:1925:GLY:HA3	2.02	0.41
1:E:2754:PHE:HE1	1:E:2933:ASN:CG	2.28	0.41
2:F:25:HIS:HD2	2:F:104:LEU:HD21	1.85	0.41
2:F:58:GLY:HA3	2:F:76:ILE:HG23	2.02	0.41
1:G:449:ILE:HG12	1:G:525:LEU:HA	2.01	0.41
1:G:626:LEU:HB2	1:G:627:PRO:HD3	2.01	0.41
1:G:765:GLN:NE2	1:G:1478:ASP:HA	2.35	0.41
1:G:792:LEU:HD22	1:G:799:GLU:O	2.20	0.41
1:G:1074:ILE:O	1:G:1238:PHE:HA	2.20	0.41
1:G:1433:TYR:CD2	1:G:1583:GLU:HB2	2.55	0.41
1:G:1944:GLU:HG3	1:G:2126:ARG:NH1	2.35	0.41
1:G:2144:ILE:HD11	1:G:2197:LEU:HD11	2.02	0.41
1:G:2335:LEU:O	1:G:2339:VAL:HG22	2.19	0.41
1:G:3645:PRO:HB2	1:G:3648:ARG:HB3	2.02	0.41
1:A:61:ASP:OD2	1:A:402:ARG:NH2	2.53	0.41
1:A:2211:MET:HE1	1:A:2229:VAL:HG13	2.02	0.41
1:A:3886:ARG:HD3	1:A:3960:GLN:HE22	1.86	0.41
1:A:3915:ILE:HD13	1:A:3915:ILE:HG21	1.75	0.41
1:A:4562:LEU:HD21	1:A:4656:LEU:CD1	2.49	0.41
1:A:4631:PHE:CE2	1:A:4633:GLU:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.20	0.41
1:A:5022:PHE:HA	1:A:5023:PRO:HD3	1.96	0.41
1:C:530:ILE:O	1:C:530:ILE:CG2	2.69	0.41
1:C:665:GLU:HB2	1:C:792:LEU:HB2	2.02	0.41
1:C:3767:GLN:OE1	1:C:3809:ASN:ND2	2.42	0.41
1:C:4693:GLY:O	1:C:4695:ASP:N	2.52	0.41
1:C:4865:LYS:HB2	1:C:4874:MET:HB3	2.00	0.41
1:C:4913:ARG:NH1	1:C:4917:ASP:HB2	2.36	0.41
1:E:111:HIS:CD2	1:E:113:HIS:H	2.39	0.41
1:E:1293:LEU:HD23	1:E:1584:ARG:HG2	2.01	0.41
1:E:1528:THR:HG22	1:E:1538:THR:H	1.85	0.41
1:E:1715:LEU:HD21	1:E:1807:LEU:HD11	2.01	0.41
1:G:667:MET:HA	1:G:743:VAL:HA	2.02	0.41
1:G:1652:GLU:OE2	1:G:1655:GLU:OE2	2.38	0.41
1:G:1853:ILE:O	1:G:1854:PHE:HB2	2.21	0.41
1:G:1864:LYS:HZ3	1:G:1869:GLU:C	2.27	0.41
1:G:3666:ASP:O	1:G:3669:PHE:HD2	2.02	0.41
1:G:4154:VAL:O	1:G:4154:VAL:HG13	2.21	0.41
1:G:4235:VAL:HG21	1:G:5019:TRP:CH2	2.55	0.41
2:H:29:MET:HG2	2:H:98:VAL:O	2.20	0.41
1:A:64:ILE:O	1:A:111:HIS:HE1	2.04	0.41
1:A:101:LEU:HD22	1:A:107:ILE:HG21	2.01	0.41
1:A:712:TYR:HB3	1:A:768:PHE:CZ	2.55	0.41
1:A:736:HIS:NE2	1:A:739:ALA:HB2	2.31	0.41
1:A:1211:LEU:O	1:A:1213:PHE:N	2.53	0.41
1:A:3924:LEU:O	1:A:3928:GLU:HG3	2.20	0.41
1:A:4661:TYR:HE2	1:A:4789:PHE:HB2	1.84	0.41
2:B:18:ARG:NH1	2:B:51:GLY:HA3	2.36	0.41
1:C:101:LEU:HD22	1:C:107:ILE:HG21	2.02	0.41
1:C:169:LEU:HD11	1:C:202:MET:HE2	2.03	0.41
1:C:1528:THR:HG22	1:C:1538:THR:H	1.85	0.41
1:C:1734:TYR:HB2	1:C:2141:ALA:HB2	2.01	0.41
1:C:1944:GLU:HG3	1:C:2126:ARG:NH1	2.35	0.41
1:E:717:ASP:O	1:E:720:HIS:NE2	2.54	0.41
1:E:792:LEU:HD22	1:E:799:GLU:O	2.20	0.41
1:E:857:ASP:HA	1:E:859:VAL:H	1.86	0.41
1:E:3996:PHE:HB3	1:E:4020:GLN:OE1	2.20	0.41
1:E:4631:PHE:CE2	1:E:4633:GLU:HB3	2.55	0.41
1:E:4779:LYS:O	1:E:4783:ILE:HG13	2.20	0.41
1:G:468:LEU:O	1:G:472:ARG:HG2	2.20	0.41
1:G:1110:ARG:HA	1:G:1111:PRO:HD2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1237:TRP:HD1	1:G:1611:HIS:HA	1.84	0.41
1:G:1294:PRO:HD3	1:G:1549:PHE:CE1	2.56	0.41
1:G:3817:LEU:HD11	1:G:3821:LYS:HZ2	1.85	0.41
1:G:3990:VAL:HG13	1:G:4051:SER:HB2	2.02	0.41
1:G:4023:MET:O	1:G:4027:LEU:HG	2.19	0.41
1:G:4779:LYS:O	1:G:4783:ILE:HG13	2.21	0.41
1:A:102:LEU:HD22	1:A:160:GLY:O	2.20	0.41
1:A:667:MET:HA	1:A:743:VAL:HA	2.01	0.41
1:A:840:VAL:HG12	1:A:1199:VAL:HG22	2.03	0.41
1:A:1187:GLY:HA2	1:A:1188:PHE:HA	1.91	0.41
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.54	0.41
1:A:3955:MET:O	1:A:4019:LEU:HD12	2.21	0.41
1:A:4989:MET:O	1:A:4993:MET:HG2	2.20	0.41
1:C:414:PHE:O	1:C:418:LEU:HD13	2.20	0.41
1:C:575:LEU:HD22	1:C:606:LEU:HA	2.02	0.41
1:C:597:HIS:CE1	1:C:1661:ARG:HH12	2.39	0.41
1:C:1074:ILE:HG23	1:C:1115:LEU:HD11	2.02	0.41
1:C:2754:PHE:HE1	1:C:2933:ASN:CG	2.27	0.41
1:C:3651:ASN:O	1:C:3655:GLU:HG2	2.21	0.41
1:C:4666:VAL:HG13	1:C:4783:ILE:HG12	2.01	0.41
1:C:4813:LEU:HD23	1:C:4813:LEU:HA	1.89	0.41
1:C:4826:ILE:O	1:C:4830:VAL:HG23	2.21	0.41
1:E:64:ILE:O	1:E:111:HIS:HE1	2.04	0.41
1:E:622:THR:HG21	1:E:1681:VAL:HG13	2.00	0.41
1:E:765:GLN:NE2	1:E:1478:ASP:HA	2.35	0.41
1:E:1297:PHE:CE1	1:E:1519:LEU:HD11	2.55	0.41
1:E:1736:VAL:HA	1:E:1737:PRO:HD2	1.85	0.41
1:E:2799:GLU:O	1:E:2803:GLU:HG2	2.19	0.41
1:E:4172:GLU:HA	1:E:4175:ARG:HH12	1.85	0.41
1:E:4579:PHE:HB2	1:E:4631:PHE:CE1	2.55	0.41
1:G:292:ALA:O	1:G:299:LEU:HD12	2.21	0.41
1:G:495:ASN:HB3	1:G:553:ARG:HH22	1.85	0.41
1:G:1769:THR:OG1	1:G:1770:SER:N	2.53	0.41
1:G:1831:GLY:HA3	1:G:1836:PHE:HB2	2.02	0.41
1:G:2102:VAL:HG13	1:G:2120:MET:HE2	2.02	0.41
1:G:3959:LYS:HG3	1:G:4022:ASP:OD2	2.21	0.41
1:G:4693:GLY:O	1:G:4695:ASP:N	2.53	0.41
1:G:4703:ARG:O	1:G:4706:LEU:HG	2.20	0.41
1:A:42:PHE:CE1	1:A:116:MET:HE3	2.55	0.41
1:A:111:HIS:CD2	1:A:113:HIS:H	2.39	0.41
1:A:169:LEU:HD11	1:A:202:MET:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:LYS:N	1:A:416:LYS:HD2	2.36	0.41
1:A:495:ASN:HB3	1:A:553:ARG:HH22	1.86	0.41
1:A:4028:LEU:HD23	1:A:4028:LEU:HA	1.80	0.41
1:A:4861:LYS:HE2	1:A:4907:ASP:OD2	2.21	0.41
1:C:484:LEU:HD11	1:C:536:ASN:OD1	2.20	0.41
1:C:715:GLY:HA2	1:C:719:LEU:HA	2.01	0.41
1:C:1075:PHE:CE1	1:C:1238:PHE:HB3	2.56	0.41
1:C:1086:GLY:O	1:C:1155:LEU:HD12	2.21	0.41
1:C:1433:TYR:CD2	1:C:1583:GLU:HB2	2.55	0.41
1:C:2862:LEU:HD21	1:C:2929:PHE:HB2	2.02	0.41
1:C:3775:ALA:O	1:C:3778:MET:HB3	2.21	0.41
1:C:3955:MET:O	1:C:4019:LEU:HD12	2.21	0.41
1:C:4208:PRO:HB2	1:C:4209:GLN:H	1.70	0.41
1:C:4856:PHE:HE1	1:C:4877:ASP:O	2.04	0.41
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.55	0.41
1:E:626:LEU:HB3	1:E:1688:HIS:CE1	2.56	0.41
1:E:665:GLU:OE2	1:E:802:PHE:HB3	2.20	0.41
1:E:840:VAL:HG12	1:E:1199:VAL:HG22	2.03	0.41
1:E:2100:HIS:HB3	1:E:2104:ARG:NH1	2.36	0.41
1:E:3817:LEU:HD13	1:E:3899:PHE:CD1	2.56	0.41
1:E:4550:LYS:HE3	1:E:4550:LYS:HB2	1.85	0.41
1:E:4685:GLY:O	1:E:4689:THR:N	2.53	0.41
1:E:4686:LEU:HA	1:E:4690:GLU:H	1.86	0.41
1:E:4826:ILE:O	1:E:4830:VAL:HG23	2.21	0.41
1:E:4989:MET:O	1:E:4993:MET:HG2	2.20	0.41
1:G:491:ILE:HG22	1:G:495:ASN:ND2	2.36	0.41
1:G:597:HIS:CE1	1:G:1661:ARG:HH12	2.39	0.41
1:G:639:ASN:HA	1:G:1635:THR:HG22	2.02	0.41
1:G:752:VAL:HG12	1:G:754:SER:H	1.85	0.41
1:G:1528:THR:HG22	1:G:1538:THR:H	1.85	0.41
1:G:2211:MET:HE1	1:G:2229:VAL:HG13	2.02	0.41
1:G:2340:PHE:CD1	1:G:2435:ARG:NH1	2.81	0.41
1:G:3835:LEU:C	1:G:3835:LEU:HD12	2.45	0.41
1:G:4097:MET:HG3	1:G:4108:ILE:CG2	2.51	0.41
1:G:4218:ILE:HG22	1:G:4950:VAL:HG13	2.02	0.41
1:G:4856:PHE:HE1	1:G:4877:ASP:O	2.04	0.41
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.35	0.41
1:A:102:LEU:HD12	1:A:105:HIS:CE1	2.55	0.41
1:A:639:ASN:HA	1:A:1635:THR:HG22	2.02	0.41
1:A:717:ASP:O	1:A:720:HIS:NE2	2.54	0.41
1:A:857:ASP:HA	1:A:859:VAL:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1727:ARG:HD2	1:A:1772:ARG:HD3	2.02	0.41
1:A:1867:GLU:HG2	1:A:2097:LEU:HD22	2.03	0.41
1:A:2149:VAL:O	1:A:2153:MET:HG2	2.21	0.41
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.54	0.41
1:A:4577:LEU:HG	1:A:4580:TYR:HE2	1.84	0.41
1:C:102:LEU:HD12	1:C:105:HIS:CE1	2.55	0.41
1:C:292:ALA:O	1:C:299:LEU:HD12	2.21	0.41
1:C:544:LEU:O	1:C:548:VAL:HG23	2.21	0.41
1:C:718:GLY:H	1:C:737:LEU:HG	1.85	0.41
1:C:1082:THR:HG22	1:C:1189:LEU:HG	2.03	0.41
1:C:1126:GLY:HA2	1:C:1143:TRP:HE1	1.84	0.41
1:C:1586:ASN:O	1:C:1588:ALA:N	2.46	0.41
1:C:2100:HIS:HB3	1:C:2104:ARG:NH1	2.36	0.41
1:C:4563:ARG:NH1	1:C:4791:TYR:HE2	2.19	0.41
1:C:4661:TYR:CE2	1:C:4789:PHE:HB2	2.56	0.41
2:D:18:ARG:NH1	2:D:51:GLY:HA3	2.36	0.41
1:E:42:PHE:CE1	1:E:116:MET:HE3	2.55	0.41
1:E:1086:GLY:O	1:E:1155:LEU:HD12	2.21	0.41
1:E:1237:TRP:HD1	1:E:1611:HIS:HA	1.84	0.41
1:E:1944:GLU:HG3	1:E:2126:ARG:NH1	2.35	0.41
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.53	0.41
1:E:2862:LEU:HD21	1:E:2929:PHE:HB2	2.02	0.41
1:E:3705:PHE:HZ	1:E:3721:LEU:HD23	1.85	0.41
1:E:3955:MET:O	1:E:4019:LEU:HD12	2.21	0.41
1:E:4562:LEU:HD21	1:E:4656:LEU:CD1	2.49	0.41
2:F:18:ARG:NH1	2:F:51:GLY:HA3	2.36	0.41
1:G:49:LEU:HA	1:G:49:LEU:HD23	1.76	0.41
1:G:64:ILE:O	1:G:111:HIS:HE1	2.04	0.41
1:G:416:LYS:HD2	1:G:416:LYS:N	2.36	0.41
1:G:1074:ILE:HG23	1:G:1115:LEU:HD11	2.03	0.41
1:G:1297:PHE:CE1	1:G:1519:LEU:HD11	2.55	0.41
1:G:4813:LEU:O	1:G:4816:ILE:HG22	2.20	0.41
1:G:4973:HIS:NE2	1:G:4976:GLU:HB3	2.35	0.41
1:A:414:PHE:O	1:A:418:LEU:HD13	2.20	0.41
1:A:544:LEU:O	1:A:548:VAL:HG23	2.20	0.41
1:A:626:LEU:HB3	1:A:1688:HIS:CE1	2.56	0.41
1:A:1093:GLU:HA	1:A:1148:VAL:HG13	2.02	0.41
1:A:1652:GLU:OE2	1:A:1655:GLU:OE2	2.39	0.41
1:A:4053:SER:O	1:A:4056:GLU:HB3	2.21	0.41
1:A:4180:ARG:NH2	1:A:4981:GLU:OE1	2.50	0.41
1:A:4799:SER:HA	1:A:4812:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4823:LEU:HD21	1:G:4839:MET:O	2.20	0.41
1:C:31:GLU:HA	1:C:32:GLN:HA	1.71	0.41
1:C:61:ASP:OD2	1:C:402:ARG:NH2	2.53	0.41
1:C:64:ILE:O	1:C:111:HIS:HE1	2.04	0.41
1:C:118:LEU:O	1:C:146:CYS:HA	2.21	0.41
1:C:626:LEU:HB3	1:C:1688:HIS:CE1	2.56	0.41
1:C:636:ASN:HD21	2:D:35:LYS:NZ	2.19	0.41
1:C:737:LEU:HB3	1:C:738:LEU:H	1.46	0.41
1:C:765:GLN:NE2	1:C:1478:ASP:HA	2.35	0.41
1:C:2735:PHE:CD2	1:C:2891:LYS:HD2	2.56	0.41
1:C:2758:PHE:CD2	1:C:2809:ILE:HD13	2.55	0.41
1:C:4053:SER:HA	1:C:4056:GLU:HB3	2.01	0.41
1:C:4686:LEU:HA	1:C:4690:GLU:H	1.86	0.41
1:E:643:SER:HA	1:E:782:SER:HA	2.01	0.41
1:E:649:PHE:CE1	1:E:776:LEU:HD23	2.56	0.41
1:E:696:PRO:HG2	1:E:1613:LEU:HD22	2.01	0.41
1:E:718:GLY:H	1:E:737:LEU:HG	1.85	0.41
1:E:1433:TYR:CD2	1:E:1583:GLU:HB2	2.55	0.41
1:E:1652:GLU:OE2	1:E:1655:GLU:OE2	2.39	0.41
1:E:4053:SER:O	1:E:4056:GLU:HB3	2.21	0.41
1:E:4563:ARG:NH1	1:E:4791:TYR:HE2	2.19	0.41
1:G:548:VAL:HG11	1:G:582:HIS:HA	2.03	0.41
1:G:840:VAL:HG12	1:G:1199:VAL:HG22	2.03	0.41
1:G:1286:MET:O	1:G:1287:LEU:HD12	2.21	0.41
1:G:3780:LEU:HD23	1:G:3819:TYR:CD2	2.56	0.41
1:G:3920:VAL:HG22	1:G:3965:LEU:HD21	2.02	0.41
1:A:484:LEU:HD11	1:A:536:ASN:OD1	2.20	0.41
1:A:548:VAL:HG11	1:A:582:HIS:HA	2.02	0.41
1:A:716:PHE:HD2	1:A:722:TRP:CH2	2.39	0.41
1:A:1086:GLY:O	1:A:1155:LEU:HD12	2.21	0.41
1:A:1433:TYR:CD2	1:A:1583:GLU:HB2	2.55	0.41
1:A:1810:LYS:O	1:A:1814:MET:HG2	2.21	0.41
1:A:1831:GLY:HA3	1:A:1836:PHE:HB2	2.02	0.41
1:A:1838:PHE:HB3	1:A:1842:LEU:HD13	2.03	0.41
1:A:1853:ILE:O	1:A:1854:PHE:HB2	2.21	0.41
1:A:1949:GLN:O	1:A:1952:GLN:HB3	2.21	0.41
1:A:2465:ASP:O	1:A:2467:VAL:N	2.52	0.41
1:A:2758:PHE:CD2	1:A:2809:ILE:HD13	2.55	0.41
1:A:2930:LEU:HD13	1:A:2937:VAL:HG21	2.03	0.41
1:A:3775:ALA:O	1:A:3778:MET:HB3	2.21	0.41
1:A:4071:ILE:O	1:A:4073:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4181:ILE:HB	1:A:4988:TYR:CE1	2.56	0.41
1:A:4888:TYR:O	1:A:4892:ARG:HD3	2.21	0.41
2:B:11:ASP:OD1	2:B:12:GLY:N	2.54	0.41
1:C:66:CYS:SG	1:C:205:ILE:HG13	2.61	0.41
1:C:416:LYS:N	1:C:416:LYS:HD2	2.36	0.41
1:C:491:ILE:HG22	1:C:495:ASN:ND2	2.36	0.41
1:C:648:ILE:CD1	1:C:815:VAL:HA	2.51	0.41
1:C:1715:LEU:HD21	1:C:1807:LEU:HD11	2.01	0.41
1:C:1734:TYR:CE2	1:C:2137:ALA:HB1	2.56	0.41
1:C:1961:PHE:CZ	1:C:2063:LEU:HD23	2.54	0.41
1:C:2381:GLU:HA	1:C:2384:ILE:HD12	2.03	0.41
1:C:4071:ILE:O	1:C:4073:GLY:N	2.54	0.41
1:C:4842:GLY:O	1:C:4846:VAL:HG23	2.21	0.41
2:D:11:ASP:OD1	2:D:12:GLY:N	2.54	0.41
2:D:25:HIS:HD2	2:D:104:LEU:HD21	1.86	0.41
1:E:667:MET:HA	1:E:743:VAL:HA	2.01	0.41
1:E:737:LEU:HD11	2:F:7:ILE:CG2	2.39	0.41
1:E:1143:TRP:HE3	1:E:1144:GLN:O	2.04	0.41
1:E:1286:MET:O	1:E:1287:LEU:HD12	2.21	0.41
1:E:1670:TYR:HB2	1:E:1714:LEU:HD21	2.02	0.41
1:E:1867:GLU:HG2	1:E:2097:LEU:HD22	2.02	0.41
1:E:3781:GLN:NE2	1:E:3819:TYR:OH	2.35	0.41
1:E:3805:LEU:O	1:E:3806:ASN:C	2.64	0.41
1:E:3886:ARG:HD3	1:E:3960:GLN:HE22	1.85	0.41
1:E:4017:LEU:O	1:E:4020:GLN:HB3	2.21	0.41
1:E:4192:ARG:HH11	1:E:5028:PHE:HB3	1.86	0.41
1:E:4217:PHE:CZ	1:E:4234:PHE:HA	2.56	0.41
1:E:4821:LYS:HD3	1:E:4824:ARG:HE	1.85	0.41
1:E:4951:LYS:O	1:E:4955:GLU:HG2	2.20	0.41
1:E:4974:GLY:O	1:E:4977:THR:OG1	2.21	0.41
1:G:169:LEU:HD11	1:G:202:MET:HE2	2.02	0.41
1:G:302:VAL:HG22	1:G:303:ASP:N	2.36	0.41
1:G:414:PHE:O	1:G:418:LEU:HD13	2.20	0.41
1:G:541:SER:HB2	1:G:577:ILE:HD12	2.03	0.41
1:G:679:ALA:CB	2:H:71:ARG:HH22	2.34	0.41
1:G:857:ASP:HA	1:G:859:VAL:H	1.85	0.41
1:G:1082:THR:HG22	1:G:1189:LEU:HG	2.03	0.41
1:G:1089:TYR:CD1	1:G:1152:MET:HG2	2.50	0.41
1:G:2149:VAL:O	1:G:2153:MET:HG2	2.21	0.41
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.85	0.41
1:G:2870:GLU:O	1:G:2874:MET:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3669:PHE:HA	1:G:3672:ARG:HG2	2.02	0.41
1:G:3794:VAL:O	1:G:3797:THR:OG1	2.26	0.41
1:G:3799:LYS:HD3	1:G:3883:ASP:OD2	2.21	0.41
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.21	0.41
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.52	0.41
1:G:4682:GLU:CD	1:G:4723:LYS:HZ1	2.29	0.41
1:G:4851:TYR:HD2	1:G:4916:PHE:CE1	2.38	0.41
1:G:5027:CYS:H	1:G:5030:LYS:HB2	1.86	0.41
1:A:31:GLU:HA	1:A:32:GLN:HA	1.71	0.41
1:A:292:ALA:O	1:A:299:LEU:HD12	2.21	0.41
1:A:681:HIS:O	1:A:682:LEU:HD12	2.20	0.41
1:A:1075:PHE:CE1	1:A:1238:PHE:HB3	2.56	0.41
1:A:1082:THR:HG22	1:A:1189:LEU:HG	2.03	0.41
1:A:2473:PRO:HA	1:A:2499:LYS:HZ1	1.86	0.41
1:A:4563:ARG:NH1	1:A:4791:TYR:HE2	2.19	0.41
1:A:4661:TYR:CE2	1:A:4789:PHE:HB2	2.56	0.41
1:C:665:GLU:OE2	1:C:802:PHE:HB3	2.21	0.41
1:C:1286:MET:O	1:C:1287:LEU:HD12	2.21	0.41
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.54	0.41
1:C:3886:ARG:HD3	1:C:3960:GLN:HE22	1.86	0.41
1:C:4017:LEU:O	1:C:4020:GLN:HB3	2.21	0.41
1:E:41:GLY:HA2	1:E:137:LEU:HD12	2.02	0.41
1:E:541:SER:HB2	1:E:577:ILE:HD12	2.02	0.41
1:E:648:ILE:CD1	1:E:815:VAL:HA	2.51	0.41
1:E:1082:THR:HG22	1:E:1189:LEU:HG	2.03	0.41
1:E:1641:ILE:HA	1:E:1642:PRO:HD2	1.95	0.41
1:E:1725:ARG:HA	1:E:1725:ARG:HD3	1.93	0.41
1:E:2211:MET:HE1	1:E:2229:VAL:HG13	2.01	0.41
1:E:3775:ALA:O	1:E:3778:MET:HB3	2.20	0.41
1:E:3782:MET:HB3	1:E:3797:THR:HG21	2.03	0.41
1:E:3899:PHE:O	1:E:3903:LEU:HG	2.21	0.41
1:E:4030:LEU:HD23	1:E:4031:LEU:HD12	2.02	0.41
1:E:4208:PRO:HG2	1:E:4210:VAL:HG23	2.03	0.41
1:E:4641:PRO:O	1:E:4644:TRP:HB3	2.20	0.41
1:E:4661:TYR:CE2	1:E:4789:PHE:HB2	2.55	0.41
1:G:118:LEU:O	1:G:146:CYS:HA	2.21	0.41
1:G:1810:LYS:O	1:G:1814:MET:HG2	2.20	0.41
1:G:4865:LYS:HB2	1:G:4874:MET:HB3	2.02	0.41
1:A:66:CYS:SG	1:A:205:ILE:HG13	2.61	0.40
1:A:244:LEU:HD22	1:A:375:LYS:NZ	2.36	0.40
1:A:1868:PRO:HD3	1:A:1925:GLY:HA3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3782:MET:HB3	1:A:3797:THR:HG21	2.03	0.40
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.55	0.40
1:A:4017:LEU:O	1:A:4020:GLN:HB3	2.21	0.40
1:A:4631:PHE:CZ	1:A:4639:MET:HE2	2.45	0.40
1:A:4686:LEU:HA	1:A:4690:GLU:H	1.86	0.40
1:A:4826:ILE:HD11	1:G:4836:GLN:HB3	2.03	0.40
2:B:58:GLY:HA3	2:B:76:ILE:HG23	2.03	0.40
1:C:42:PHE:CE1	1:C:116:MET:HE3	2.55	0.40
1:C:752:VAL:HG12	1:C:754:SER:H	1.85	0.40
1:C:840:VAL:HG12	1:C:1199:VAL:HG22	2.03	0.40
1:C:2149:VAL:O	1:C:2153:MET:HG2	2.21	0.40
1:C:2423:MET:HG3	1:C:2498:HIS:ND1	2.36	0.40
1:C:3782:MET:HB3	1:C:3797:THR:HG21	2.03	0.40
1:E:62:LEU:HD12	1:E:65:CYS:HB2	2.03	0.40
1:E:292:ALA:O	1:E:299:LEU:HD12	2.21	0.40
1:E:548:VAL:HG11	1:E:582:HIS:HA	2.03	0.40
1:E:716:PHE:HD2	1:E:722:TRP:CH2	2.39	0.40
1:E:1087:ARG:NH1	1:E:1221:GLU:O	2.47	0.40
1:E:1093:GLU:HA	1:E:1148:VAL:HG13	2.02	0.40
1:E:1810:LYS:O	1:E:1814:MET:HG2	2.20	0.40
1:E:1838:PHE:HB3	1:E:1842:LEU:HD13	2.03	0.40
1:G:626:LEU:HB3	1:G:1688:HIS:CE1	2.55	0.40
1:G:1086:GLY:O	1:G:1155:LEU:HD12	2.21	0.40
1:G:1089:TYR:CB	1:G:1223:PHE:HB3	2.51	0.40
1:G:4813:LEU:HA	1:G:4813:LEU:HD23	1.90	0.40
1:G:4869:GLU:O	1:G:4871:GLU:N	2.44	0.40
1:A:26:ALA:HB2	1:A:182:LEU:HD21	2.03	0.40
1:A:302:VAL:HG22	1:A:303:ASP:N	2.36	0.40
1:A:472:ARG:NE	1:A:532:GLY:HA3	2.36	0.40
1:A:1286:MET:O	1:A:1287:LEU:HD12	2.21	0.40
1:A:3899:PHE:O	1:A:3903:LEU:HG	2.21	0.40
1:C:679:ALA:CB	2:D:71:ARG:HH22	2.35	0.40
1:C:717:ASP:O	1:C:720:HIS:NE2	2.54	0.40
1:C:790:ARG:HH21	1:C:1625:GLY:CA	2.34	0.40
1:C:1670:TYR:HB2	1:C:1714:LEU:HD21	2.02	0.40
1:C:1762:LEU:HA	1:C:1763:PRO:HD2	1.92	0.40
1:C:2094:LEU:HA	1:C:2097:LEU:HG	2.04	0.40
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.54	0.40
1:C:4208:PRO:HG2	1:C:4210:VAL:HG23	2.03	0.40
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.56	0.40
1:E:66:CYS:SG	1:E:205:ILE:HG13	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:441:VAL:HG12	1:E:445:LEU:HD13	2.02	0.40
1:E:639:ASN:HA	1:E:1635:THR:HG22	2.02	0.40
1:E:2496:PRO:HB2	1:E:2552:ARG:HD2	2.03	0.40
1:G:111:HIS:CD2	1:G:113:HIS:H	2.38	0.40
1:G:441:VAL:HG12	1:G:445:LEU:HD13	2.02	0.40
1:G:1143:TRP:HE3	1:G:1144:GLN:O	2.04	0.40
1:G:1781:CYS:SG	1:G:1783:VAL:HG22	2.62	0.40
1:G:4175:ARG:HB3	1:G:4176:PRO:HD3	2.03	0.40
1:G:4208:PRO:HB2	1:G:4209:GLN:H	1.72	0.40
1:A:118:LEU:O	1:A:146:CYS:HA	2.21	0.40
1:A:648:ILE:CD1	1:A:815:VAL:HA	2.52	0.40
1:A:752:VAL:HG12	1:A:754:SER:H	1.85	0.40
1:A:1287:LEU:HD22	1:A:1556:PRO:HG3	2.03	0.40
1:A:3984:ARG:HH21	1:A:3984:ARG:HD2	1.70	0.40
1:C:223:PHE:CD1	1:C:230:CYS:HB3	2.54	0.40
1:C:589:LEU:HG	1:C:593:HIS:CD2	2.57	0.40
1:C:716:PHE:HD2	1:C:722:TRP:CH2	2.39	0.40
1:C:1248:VAL:HA	1:C:1249:PRO:HD3	1.88	0.40
1:C:1838:PHE:HB3	1:C:1842:LEU:HD13	2.04	0.40
1:C:1958:LEU:HD13	1:C:2134:LEU:HD11	2.03	0.40
1:C:2160:GLY:O	1:C:2164:SER:N	2.51	0.40
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.47	0.40
1:C:3984:ARG:HH21	1:C:3984:ARG:HD2	1.72	0.40
1:C:4550:LYS:HB2	1:C:4550:LYS:HE3	1.84	0.40
1:C:4913:ARG:HH12	1:C:4917:ASP:HB2	1.86	0.40
1:C:4934:GLY:HA2	1:C:4937:ILE:HG12	2.03	0.40
1:E:102:LEU:HD12	1:E:105:HIS:CE1	2.57	0.40
1:E:752:VAL:HG12	1:E:754:SER:H	1.85	0.40
1:E:1248:VAL:HA	1:E:1249:PRO:HD3	1.89	0.40
1:E:1853:ILE:O	1:E:1854:PHE:HB2	2.21	0.40
1:E:1949:GLN:O	1:E:1952:GLN:HB3	2.22	0.40
1:E:3651:ASN:O	1:E:3655:GLU:HG2	2.21	0.40
1:E:4235:VAL:O	1:E:4236:SER:C	2.61	0.40
1:E:4653:VAL:HA	1:E:4656:LEU:HG	2.02	0.40
1:G:26:ALA:HB2	1:G:182:LEU:HD21	2.03	0.40
1:G:649:PHE:CE1	1:G:776:LEU:HD23	2.57	0.40
1:G:1075:PHE:CE1	1:G:1238:PHE:HB3	2.56	0.40
1:G:1077:ALA:O	1:G:1189:LEU:HD13	2.20	0.40
1:G:1579:MET:O	1:G:1582:SER:OG	2.25	0.40
1:G:2133:GLU:HG3	1:G:2136:ARG:HH21	1.87	0.40
1:G:2495:VAL:HG12	1:G:2553:TYR:OH	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:ILE:O	1:A:530:ILE:CG2	2.68	0.40
1:A:626:LEU:HB2	1:A:627:PRO:HD3	2.01	0.40
1:A:1691:GLN:NE2	1:A:1802:ILE:HA	2.37	0.40
1:A:2100:HIS:HB3	1:A:2104:ARG:NH1	2.36	0.40
1:A:2124:LEU:CD2	1:A:3677:LEU:HD21	2.52	0.40
1:A:2381:GLU:HA	1:A:2384:ILE:HD12	2.03	0.40
1:A:2423:MET:HG3	1:A:2498:HIS:ND1	2.36	0.40
1:A:3651:ASN:O	1:A:3655:GLU:HG2	2.22	0.40
1:A:3936:TYR:O	1:A:3940:LYS:NZ	2.47	0.40
1:A:4235:VAL:O	1:A:4236:SER:C	2.61	0.40
1:A:4852:THR:HG21	1:A:4883:TYR:HB2	2.03	0.40
1:C:737:LEU:HD11	2:D:7:ILE:CG2	2.39	0.40
1:C:1143:TRP:HE3	1:C:1144:GLN:O	2.04	0.40
1:C:1294:PRO:HD3	1:C:1549:PHE:CE1	2.57	0.40
1:C:1652:GLU:OE2	1:C:1655:GLU:OE2	2.38	0.40
1:C:1867:GLU:HG2	1:C:2097:LEU:HD22	2.03	0.40
1:C:1949:GLN:O	1:C:1952:GLN:HB3	2.21	0.40
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.56	0.40
1:C:4172:GLU:HA	1:C:4175:ARG:HH12	1.85	0.40
1:C:4686:LEU:O	1:C:4691:GLN:N	2.41	0.40
1:C:4878:ASP:O	1:C:4881:THR:OG1	2.31	0.40
1:E:56:GLN:HA	1:E:309:THR:OG1	2.22	0.40
1:E:302:VAL:HG22	1:E:303:ASP:N	2.36	0.40
1:E:665:GLU:HB2	1:E:792:LEU:HB2	2.02	0.40
1:E:689:THR:HA	1:E:778:PHE:HE1	1.86	0.40
1:E:1089:TYR:CB	1:E:1223:PHE:HB3	2.51	0.40
1:E:1294:PRO:HD3	1:E:1549:PHE:CE1	2.57	0.40
1:E:2139:PRO:HG3	1:E:3658:LYS:HZ3	1.86	0.40
1:E:2930:LEU:HD13	1:E:2937:VAL:HG21	2.03	0.40
1:E:3898:ASP:OD1	1:E:3899:PHE:N	2.55	0.40
1:E:4235:VAL:HG11	1:E:5019:TRP:CH2	2.56	0.40
2:F:11:ASP:OD1	2:F:12:GLY:N	2.54	0.40
1:G:1093:GLU:HA	1:G:1148:VAL:HG13	2.02	0.40
1:G:1671:ARG:HD2	1:G:1713:ASP:HB3	2.04	0.40
1:G:1745:ILE:O	1:G:1746:THR:OG1	2.35	0.40
1:G:2423:MET:HG3	1:G:2498:HIS:ND1	2.36	0.40
1:A:597:HIS:CE1	1:A:1661:ARG:HH12	2.39	0.40
1:A:1286:MET:C	1:A:1287:LEU:HD12	2.47	0.40
1:A:1743:ARG:NH1	1:A:1963:GLU:HG3	2.37	0.40
1:A:2160:GLY:O	1:A:2164:SER:N	2.51	0.40
1:A:3705:PHE:HZ	1:A:3721:LEU:HD23	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4208:PRO:HG2	1:A:4210:VAL:HG23	2.03	0.40
1:A:4681:LEU:HD21	1:A:4687:TYR:HB2	2.03	0.40
2:B:25:HIS:HD2	2:B:104:LEU:HD21	1.86	0.40
1:C:62:LEU:HD12	1:C:65:CYS:HB2	2.04	0.40
1:C:689:THR:HA	1:C:778:PHE:HE1	1.87	0.40
1:C:750:LEU:C	1:C:751:SER:HG	2.27	0.40
1:C:1089:TYR:CD1	1:C:1152:MET:HG2	2.50	0.40
1:C:1286:MET:C	1:C:1287:LEU:HD12	2.47	0.40
1:C:1637:MET:O	1:C:1650:ILE:N	2.36	0.40
1:C:2124:LEU:HD11	1:C:2128:TYR:HE2	1.86	0.40
1:C:2495:VAL:HG12	1:C:2553:TYR:OH	2.22	0.40
1:C:4030:LEU:HD23	1:C:4031:LEU:HD12	2.02	0.40
1:C:4053:SER:O	1:C:4056:GLU:HB3	2.21	0.40
1:C:4181:ILE:HB	1:C:4988:TYR:CE1	2.56	0.40
1:C:4631:PHE:CZ	1:C:4639:MET:HE2	2.47	0.40
1:C:4922:PHE:O	1:C:4927:ILE:HG12	2.22	0.40
1:E:472:ARG:NE	1:E:532:GLY:HA3	2.37	0.40
1:E:3780:LEU:HD23	1:E:3819:TYR:HD2	1.87	0.40
1:E:3786:CYS:O	1:E:3789:GLU:HG2	2.22	0.40
1:E:4686:LEU:HD12	1:E:4687:TYR:N	2.37	0.40
1:E:4927:ILE:O	1:E:4931:ILE:HG13	2.21	0.40
1:G:648:ILE:CD1	1:G:815:VAL:HA	2.51	0.40
1:G:665:GLU:HB2	1:G:792:LEU:HB2	2.02	0.40
1:G:1949:GLN:O	1:G:1952:GLN:HB3	2.21	0.40
1:G:2802:LYS:O	1:G:2806:ARG:HG3	2.20	0.40
1:G:3914:ASN:OD1	1:G:3916:ILE:HB	2.21	0.40
1:G:4930:ALA:HA	1:G:4933:GLN:HG2	2.02	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	3499/5037 (70%)	3211 (92%)	199 (6%)	89 (2%)	4	28
1	C	3499/5037 (70%)	3211 (92%)	201 (6%)	87 (2%)	4	28
1	E	3499/5037 (70%)	3211 (92%)	199 (6%)	89 (2%)	4	28
1	G	3499/5037 (70%)	3211 (92%)	199 (6%)	89 (2%)	4	28
2	B	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	D	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	F	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	H	105/108 (97%)	97 (92%)	7 (7%)	1 (1%)	12	43
All	All	14416/20580 (70%)	13232 (92%)	829 (6%)	355 (2%)	6	28

All (355) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	55	ALA
1	A	737	LEU
1	A	858	THR
1	A	896	VAL
1	A	916	PRO
1	A	1254	HIS
1	A	1457	TYR
1	A	2465	ASP
1	A	3806	ASN
1	A	4084	PRO
1	A	4121	GLU
1	A	4691	GLN
1	A	4868	ASP
1	A	4984	ASN
1	A	4985	LEU
1	C	55	ALA
1	C	737	LEU
1	C	858	THR
1	C	896	VAL
1	C	916	PRO
1	C	1254	HIS
1	C	1457	TYR
1	C	2465	ASP
1	C	3806	ASN
1	C	4084	PRO
1	C	4121	GLU
1	C	4691	GLN

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Mol	Chain	Res	Type
1	C	4868	ASP
1	C	4984	ASN
1	C	4985	LEU
1	E	55	ALA
1	E	737	LEU
1	E	858	THR
1	E	896	VAL
1	E	916	PRO
1	E	1254	HIS
1	E	2465	ASP
1	E	3806	ASN
1	E	4084	PRO
1	E	4121	GLU
1	E	4691	GLN
1	E	4868	ASP
1	E	4984	ASN
1	E	4985	LEU
1	G	55	ALA
1	G	737	LEU
1	G	858	THR
1	G	896	VAL
1	G	916	PRO
1	G	1254	HIS
1	G	1457	TYR
1	G	2465	ASP
1	G	3806	ASN
1	G	4084	PRO
1	G	4691	GLN
1	G	4868	ASP
1	G	4984	ASN
1	G	4985	LEU
1	A	610	ASN
1	A	673	PRO
1	A	698	GLY
1	A	817	PRO
1	A	939	VAL
1	A	1249	PRO
1	A	1465	ASP
1	A	1676	LEU
1	A	1746	THR
1	A	2341	VAL
1	A	4036	VAL

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Mol	Chain	Res	Type
1	A	4128	PHE
1	A	4206	GLU
1	C	610	ASN
1	C	673	PRO
1	C	698	GLY
1	C	817	PRO
1	C	939	VAL
1	C	1465	ASP
1	C	1676	LEU
1	C	1746	THR
1	C	2341	VAL
1	C	4036	VAL
1	C	4128	PHE
1	C	4206	GLU
1	E	610	ASN
1	E	673	PRO
1	E	698	GLY
1	E	939	VAL
1	E	1249	PRO
1	E	1457	TYR
1	E	1465	ASP
1	E	1676	LEU
1	E	1746	THR
1	E	2341	VAL
1	E	4036	VAL
1	E	4128	PHE
1	E	4206	GLU
1	G	610	ASN
1	G	673	PRO
1	G	698	GLY
1	G	939	VAL
1	G	1249	PRO
1	G	1465	ASP
1	G	1676	LEU
1	G	1746	THR
1	G	2341	VAL
1	G	3457	ASN
1	G	4036	VAL
1	G	4128	PHE
1	A	31	GLU
1	A	57	ASN
1	A	144	GLU

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Mol	Chain	Res	Type
1	A	213	TYR
1	A	700	GLU
1	A	716	PHE
1	A	725	HIS
1	A	826	ILE
1	A	827	LYS
1	A	1156	THR
1	A	1212	ARG
1	A	1539	PHE
1	A	1544	PRO
1	A	1854	PHE
1	A	1856	ASP
1	A	1934	SER
1	A	2466	LEU
1	A	2826	ALA
1	A	3456	GLN
1	A	3457	ASN
1	A	3714	SER
1	A	3842	LEU
1	A	3906	GLN
1	A	3941	ASP
1	A	4052	SER
1	A	4203	ALA
1	A	4208	PRO
1	A	4694	ASP
1	A	4973	HIS
1	C	31	GLU
1	C	144	GLU
1	C	213	TYR
1	C	700	GLU
1	C	716	PHE
1	C	725	HIS
1	C	826	ILE
1	C	827	LYS
1	C	1156	THR
1	C	1212	ARG
1	C	1249	PRO
1	C	1539	PHE
1	C	1544	PRO
1	C	1854	PHE
1	C	1856	ASP
1	C	1934	SER

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Mol	Chain	Res	Type
1	C	2466	LEU
1	C	2826	ALA
1	C	3456	GLN
1	C	3457	ASN
1	C	3714	SER
1	C	3842	LEU
1	C	3906	GLN
1	C	3941	ASP
1	C	4052	SER
1	C	4203	ALA
1	C	4208	PRO
1	C	4694	ASP
1	C	4973	HIS
1	E	31	GLU
1	E	144	GLU
1	E	213	TYR
1	E	700	GLU
1	E	716	PHE
1	E	725	HIS
1	E	817	PRO
1	E	826	ILE
1	E	827	LYS
1	E	1156	THR
1	E	1212	ARG
1	E	1539	PHE
1	E	1544	PRO
1	E	1854	PHE
1	E	1856	ASP
1	E	1934	SER
1	E	2466	LEU
1	E	2826	ALA
1	E	3456	GLN
1	E	3457	ASN
1	E	3714	SER
1	E	3842	LEU
1	E	3906	GLN
1	E	3941	ASP
1	E	4052	SER
1	E	4203	ALA
1	E	4208	PRO
1	E	4694	ASP
1	E	4973	HIS

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Mol	Chain	Res	Type
1	G	31	GLU
1	G	57	ASN
1	G	144	GLU
1	G	213	TYR
1	G	700	GLU
1	G	716	PHE
1	G	725	HIS
1	G	817	PRO
1	G	826	ILE
1	G	827	LYS
1	G	1156	THR
1	G	1212	ARG
1	G	1539	PHE
1	G	1544	PRO
1	G	1854	PHE
1	G	1856	ASP
1	G	1934	SER
1	G	2466	LEU
1	G	3658	LYS
1	G	3714	SER
1	G	3842	LEU
1	G	3843	ASP
1	G	3906	GLN
1	G	3941	ASP
1	G	4121	GLU
1	G	4203	ALA
1	G	4208	PRO
1	G	4694	ASP
1	G	4973	HIS
1	A	355	LEU
1	A	720	HIS
1	A	765	GLN
1	A	828	GLU
1	A	1624	LEU
1	A	1690	ASP
1	A	3695	PRO
1	A	3843	ASP
1	A	4087	LEU
1	A	4636	THR
1	A	4905	ALA
1	C	57	ASN
1	C	355	LEU

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Mol	Chain	Res	Type
1	C	720	HIS
1	C	765	GLN
1	C	828	GLU
1	C	1624	LEU
1	C	1690	ASP
1	C	3695	PRO
1	C	3843	ASP
1	C	4087	LEU
1	C	4636	THR
1	C	4905	ALA
1	E	57	ASN
1	E	355	LEU
1	E	720	HIS
1	E	765	GLN
1	E	828	GLU
1	E	1460	HIS
1	E	1624	LEU
1	E	1690	ASP
1	E	3695	PRO
1	E	3843	ASP
1	E	4087	LEU
1	E	4636	THR
1	E	4905	ALA
1	G	355	LEU
1	G	720	HIS
1	G	765	GLN
1	G	828	GLU
1	G	1624	LEU
1	G	1690	ASP
1	G	2826	ALA
1	G	3695	PRO
1	G	4087	LEU
1	G	4206	GLU
1	G	4636	THR
1	G	4637	GLY
1	G	4858	PHE
1	A	676	THR
1	A	818	ARG
1	A	1206	GLN
1	A	1538	THR
1	A	1589	PRO
1	A	1762	LEU

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Mol	Chain	Res	Type
1	A	4637	GLY
1	C	676	THR
1	C	818	ARG
1	C	1206	GLN
1	C	1538	THR
1	C	1589	PRO
1	C	1762	LEU
1	C	4637	GLY
1	E	676	THR
1	E	818	ARG
1	E	1538	THR
1	E	1589	PRO
1	E	1762	LEU
1	E	4637	GLY
1	G	676	THR
1	G	818	ARG
1	G	1206	GLN
1	G	1538	THR
1	G	1589	PRO
1	G	1762	LEU
1	G	3456	GLN
1	G	3718	GLU
1	G	3841	VAL
1	A	1082	THR
1	A	4858	PHE
1	C	724	GLY
1	C	1082	THR
1	E	724	GLY
1	E	1206	GLN
1	E	1482	ASN
1	E	4858	PHE
1	G	724	GLY
1	G	1082	THR
1	G	1482	ASN
1	G	1830	VAL
1	A	915	GLU
1	A	1830	VAL
1	A	2113	SER
1	A	3841	VAL
1	C	1830	VAL
1	C	2113	SER
1	C	3841	VAL

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Mol	Chain	Res	Type
1	E	915	GLU
1	E	1830	VAL
1	E	2113	SER
1	G	915	GLU
1	G	2113	SER
1	A	438	ILE
1	A	724	GLY
1	A	767	VAL
1	A	4872	PRO
1	C	438	ILE
1	C	767	VAL
1	C	915	GLU
1	C	4872	PRO
1	E	438	ILE
1	E	767	VAL
1	E	3841	VAL
1	E	4872	PRO
1	G	438	ILE
1	G	532	GLY
1	G	4072	VAL
1	A	532	GLY
1	C	532	GLY
1	C	842	PRO
1	E	532	GLY
1	G	767	VAL
1	G	842	PRO
1	G	4872	PRO
1	A	842	PRO
1	A	4072	VAL
1	C	4072	VAL
1	E	842	PRO
1	E	4072	VAL
2	H	86	GLY
1	A	1095	VAL

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	2503/4276 (58%)	2484 (99%)	19 (1%)	73	76
1	C	2504/4276 (59%)	2485 (99%)	19 (1%)	73	76
1	E	2504/4276 (59%)	2486 (99%)	18 (1%)	76	77
1	G	2502/4276 (58%)	2485 (99%)	17 (1%)	76	77
2	B	89/90 (99%)	89 (100%)	0	100	100
2	D	89/90 (99%)	89 (100%)	0	100	100
2	F	89/90 (99%)	89 (100%)	0	100	100
2	H	89/90 (99%)	89 (100%)	0	100	100
All	All	10369/17464 (59%)	10296 (99%)	73 (1%)	73	77

All (73) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	377	ILE
1	A	380	GLN
1	A	510	GLU
1	A	806	PRO
1	A	852	VAL
1	A	862	VAL
1	A	865	PRO
1	A	908	VAL
1	A	914	PRO
1	A	939	VAL
1	A	979	PRO
1	A	1055	PRO
1	A	1096	THR
1	A	1119	GLU
1	A	2066	LEU
1	A	3884	LEU
1	A	3916	ILE
1	A	4082	THR
1	A	4972	PRO
1	C	377	ILE
1	C	380	GLN
1	C	510	GLU
1	C	806	PRO
1	C	852	VAL
1	C	862	VAL
1	C	865	PRO
1	C	908	VAL

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Mol	Chain	Res	Type
1	C	914	PRO
1	C	939	VAL
1	C	979	PRO
1	C	1055	PRO
1	C	1096	THR
1	C	1119	GLU
1	C	2066	LEU
1	C	3884	LEU
1	C	3916	ILE
1	C	4082	THR
1	C	4972	PRO
1	E	377	ILE
1	E	380	GLN
1	E	510	GLU
1	E	806	PRO
1	E	852	VAL
1	E	862	VAL
1	E	865	PRO
1	E	908	VAL
1	E	914	PRO
1	E	939	VAL
1	E	979	PRO
1	E	1055	PRO
1	E	1096	THR
1	E	2066	LEU
1	E	3884	LEU
1	E	3916	ILE
1	E	4082	THR
1	E	4972	PRO
1	G	377	ILE
1	G	380	GLN
1	G	510	GLU
1	G	806	PRO
1	G	865	PRO
1	G	908	VAL
1	G	914	PRO
1	G	939	VAL
1	G	979	PRO
1	G	1055	PRO
1	G	1096	THR
1	G	1119	GLU
1	G	2066	LEU

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Mol	Chain	Res	Type
1	G	4082	THR
1	G	4169	SER
1	G	4935	LEU
1	G	4972	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (220) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	23	GLN
1	A	54	ASN
1	A	57	ASN
1	A	105	HIS
1	A	111	HIS
1	A	113	HIS
1	A	203	ASN
1	A	273	HIS
1	A	405	HIS
1	A	413	GLN
1	A	461	HIS
1	A	465	GLN
1	A	582	HIS
1	A	593	HIS
1	A	596	ASN
1	A	617	ASN
1	A	681	HIS
1	A	1203	ASN
1	A	1220	GLN
1	A	1254	HIS
1	A	1281	ASN
1	A	1532	ASN
1	A	1663	HIS
1	A	1665	HIS
1	A	1679	ASN
1	A	1683	HIS
1	A	1691	GLN
1	A	1696	HIS
1	A	1719	HIS
1	A	1775	HIS
1	A	1953	HIS
1	A	2188	ASN
1	A	2194	HIS
1	A	2245	GLN

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Mol	Chain	Res	Type
1	A	2253	HIS
1	A	2498	HIS
1	A	2773	ASN
1	A	2856	ASN
1	A	3699	HIS
1	A	3771	HIS
1	A	3960	GLN
1	A	3970	GLN
1	A	3982	HIS
1	A	3998	HIS
1	A	4124	ASN
1	A	4153	HIS
1	A	4223	ASN
1	A	4662	ASN
1	A	4776	GLN
1	A	4987	ASN
1	A	5003	HIS
1	A	5006	GLN
1	A	5015	GLN
2	B	25	HIS
2	B	87	HIS
1	C	23	GLN
1	C	54	ASN
1	C	57	ASN
1	C	105	HIS
1	C	111	HIS
1	C	113	HIS
1	C	203	ASN
1	C	273	HIS
1	C	405	HIS
1	C	413	GLN
1	C	461	HIS
1	C	465	GLN
1	C	582	HIS
1	C	593	HIS
1	C	596	ASN
1	C	617	ASN
1	C	681	HIS
1	C	1203	ASN
1	C	1220	GLN
1	C	1254	HIS
1	C	1281	ASN

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Mol	Chain	Res	Type
1	C	1532	ASN
1	C	1663	HIS
1	C	1665	HIS
1	C	1679	ASN
1	C	1683	HIS
1	C	1691	GLN
1	C	1719	HIS
1	C	1775	HIS
1	C	1953	HIS
1	C	2245	GLN
1	C	2253	HIS
1	C	2773	ASN
1	C	2856	ASN
1	C	3699	HIS
1	C	3771	HIS
1	C	3960	GLN
1	C	3970	GLN
1	C	3982	HIS
1	C	3998	HIS
1	C	4124	ASN
1	C	4153	HIS
1	C	4223	ASN
1	C	4662	ASN
1	C	4805	ASN
1	C	4987	ASN
1	C	5003	HIS
1	C	5006	GLN
1	C	5015	GLN
2	D	25	HIS
2	D	87	HIS
1	E	23	GLN
1	E	54	ASN
1	E	57	ASN
1	E	105	HIS
1	E	111	HIS
1	E	113	HIS
1	E	203	ASN
1	E	224	HIS
1	E	405	HIS
1	E	413	GLN
1	E	461	HIS
1	E	465	GLN

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Mol	Chain	Res	Type
1	E	479	GLN
1	E	582	HIS
1	E	593	HIS
1	E	596	ASN
1	E	617	ASN
1	E	681	HIS
1	E	812	HIS
1	E	1203	ASN
1	E	1220	GLN
1	E	1254	HIS
1	E	1281	ASN
1	E	1532	ASN
1	E	1663	HIS
1	E	1665	HIS
1	E	1679	ASN
1	E	1683	HIS
1	E	1691	GLN
1	E	1719	HIS
1	E	1775	HIS
1	E	1953	HIS
1	E	2245	GLN
1	E	2253	HIS
1	E	2498	HIS
1	E	2773	ASN
1	E	2856	ASN
1	E	3699	HIS
1	E	3771	HIS
1	E	3851	ASN
1	E	3960	GLN
1	E	3970	GLN
1	E	3982	HIS
1	E	3998	HIS
1	E	4124	ASN
1	E	4153	HIS
1	E	4223	ASN
1	E	4650	HIS
1	E	4662	ASN
1	E	4776	GLN
1	E	4805	ASN
1	E	4987	ASN
1	E	5003	HIS
1	E	5006	GLN

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Mol	Chain	Res	Type
1	E	5015	GLN
2	F	25	HIS
2	F	87	HIS
1	G	23	GLN
1	G	54	ASN
1	G	57	ASN
1	G	105	HIS
1	G	111	HIS
1	G	113	HIS
1	G	203	ASN
1	G	405	HIS
1	G	413	GLN
1	G	461	HIS
1	G	465	GLN
1	G	582	HIS
1	G	593	HIS
1	G	596	ASN
1	G	617	ASN
1	G	681	HIS
1	G	1203	ASN
1	G	1220	GLN
1	G	1254	HIS
1	G	1281	ASN
1	G	1532	ASN
1	G	1660	GLN
1	G	1663	HIS
1	G	1665	HIS
1	G	1683	HIS
1	G	1691	GLN
1	G	1719	HIS
1	G	1775	HIS
1	G	1953	HIS
1	G	1970	GLN
1	G	2194	HIS
1	G	2245	GLN
1	G	2253	HIS
1	G	2498	HIS
1	G	2773	ASN
1	G	2856	ASN
1	G	3699	HIS
1	G	3851	ASN
1	G	3960	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	G	3977	GLN
1	G	3982	HIS
1	G	3994	HIS
1	G	3998	HIS
1	G	4037	ASN
1	G	4124	ASN
1	G	4153	HIS
1	G	4223	ASN
1	G	4650	HIS
1	G	4707	ASN
1	G	4805	ASN
1	G	4812	HIS
1	G	4857	ASN
1	G	4987	ASN
1	G	5003	HIS
1	G	5015	GLN
2	H	25	HIS
2	H	87	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

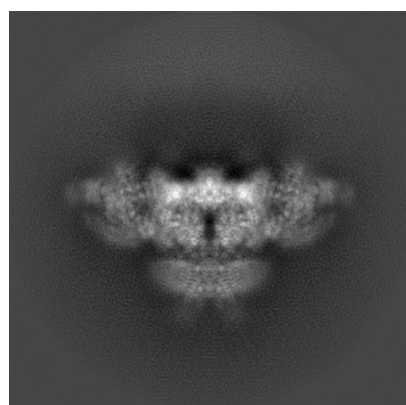
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9518. These allow visual inspection of the internal detail of the map and identification of artifacts.

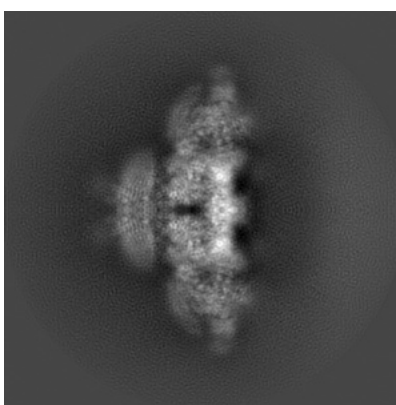
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

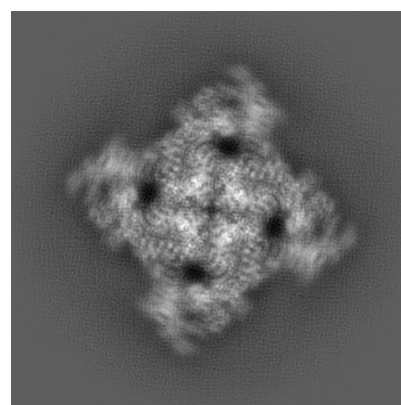
6.1.1 Primary map



X



Y

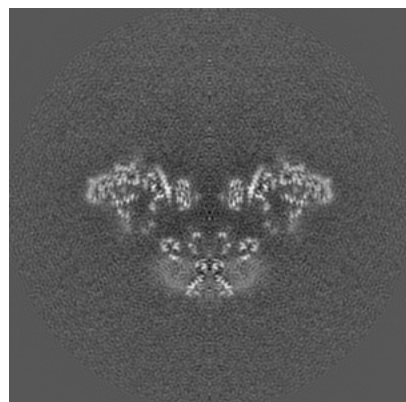


Z

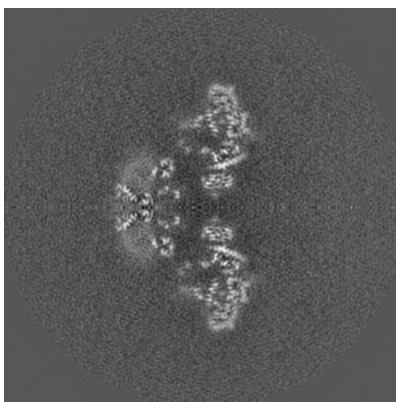
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

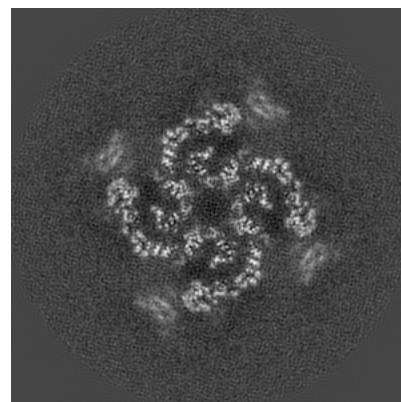
6.2.1 Primary map



X Index: 180



Y Index: 180

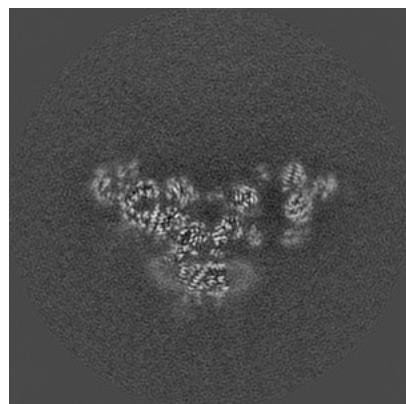


Z Index: 180

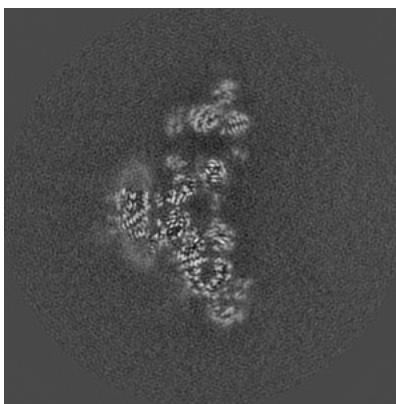
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

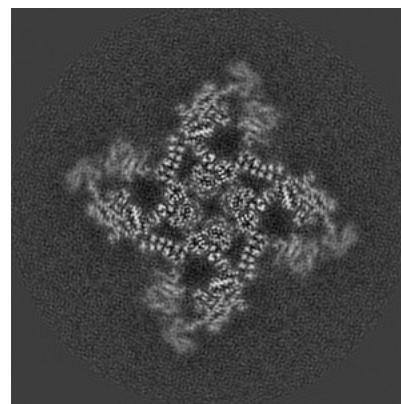
6.3.1 Primary map



X Index: 191



Y Index: 169

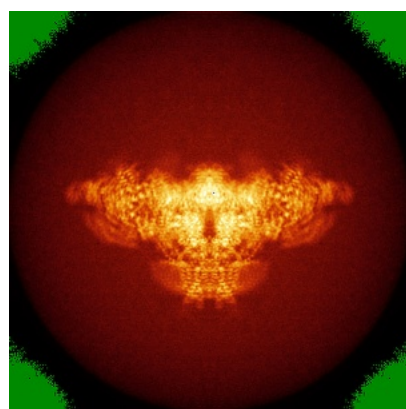


Z Index: 190

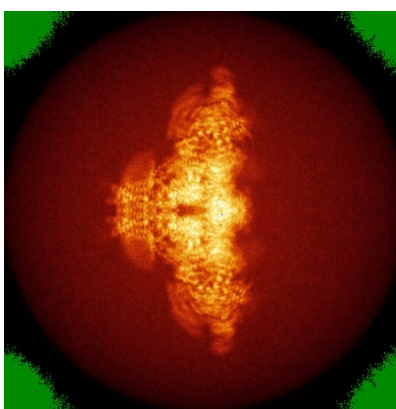
The images above show the largest variance slices of the map in three orthogonal directions.

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

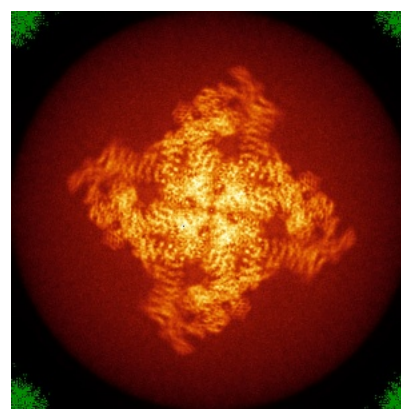
6.4.1 Primary map



X



Y

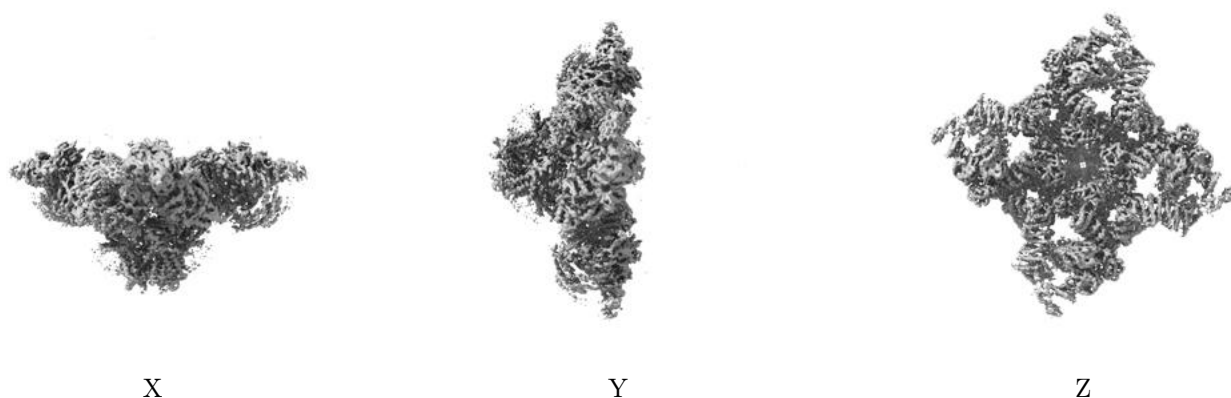


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.085. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

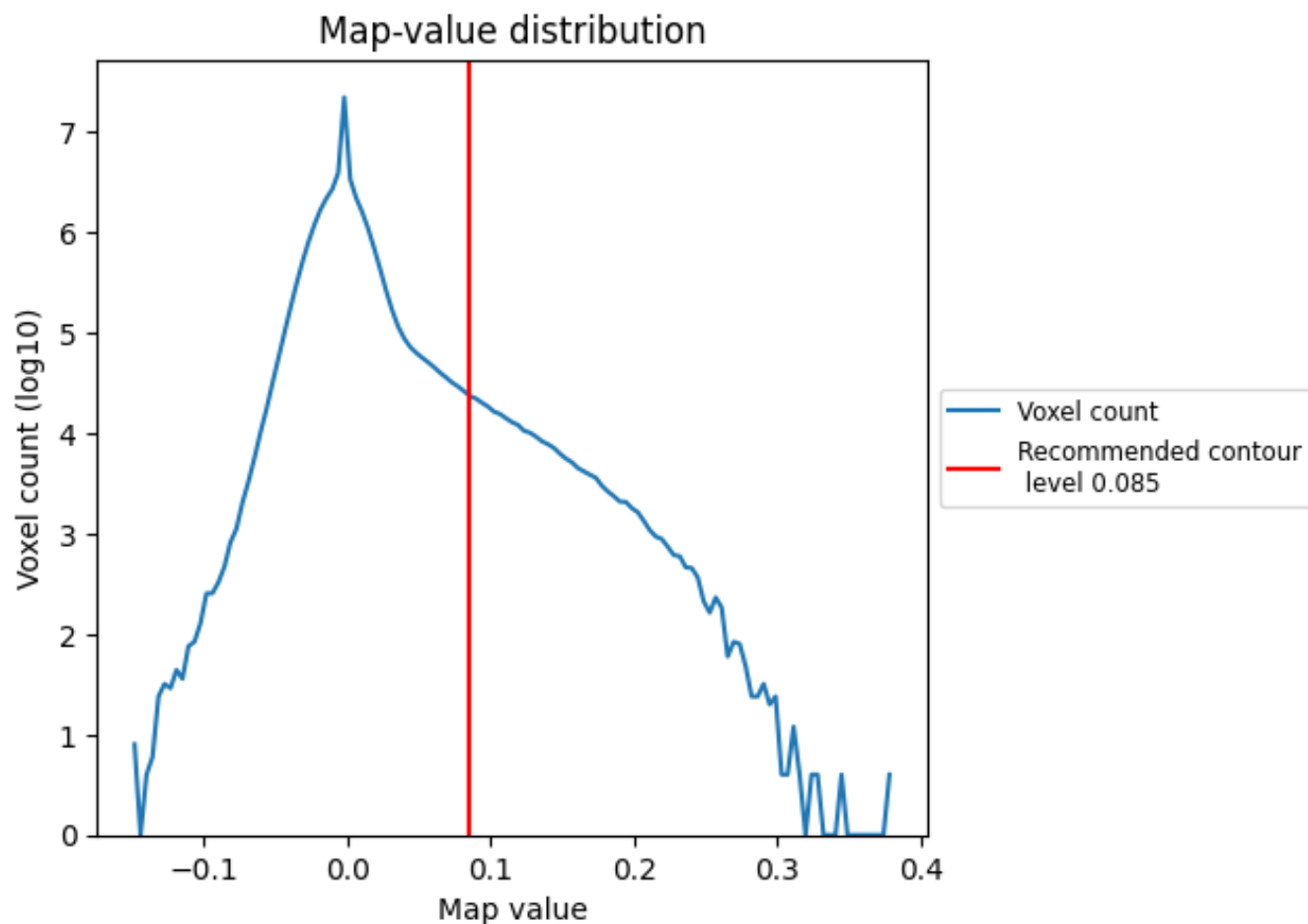
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

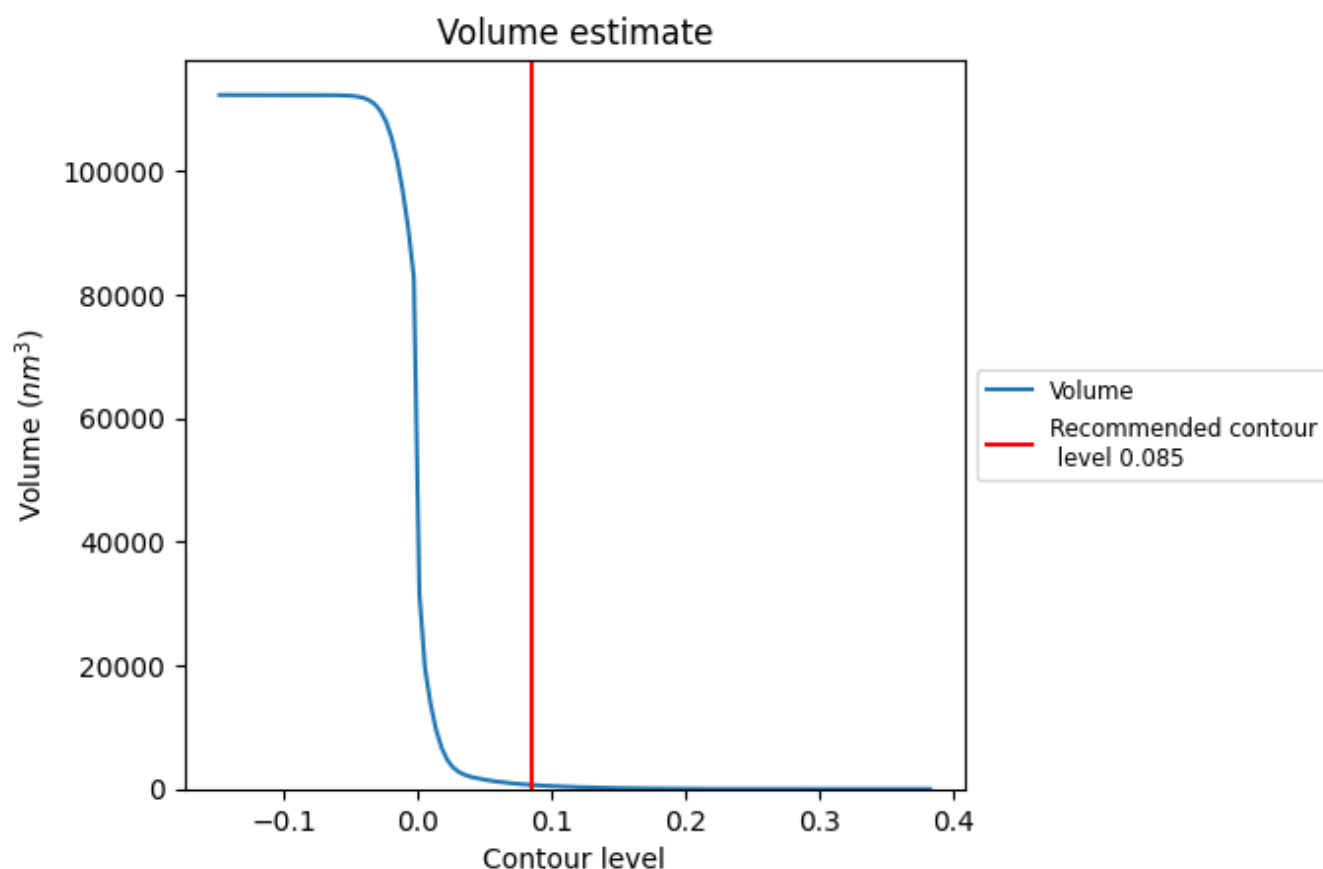
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

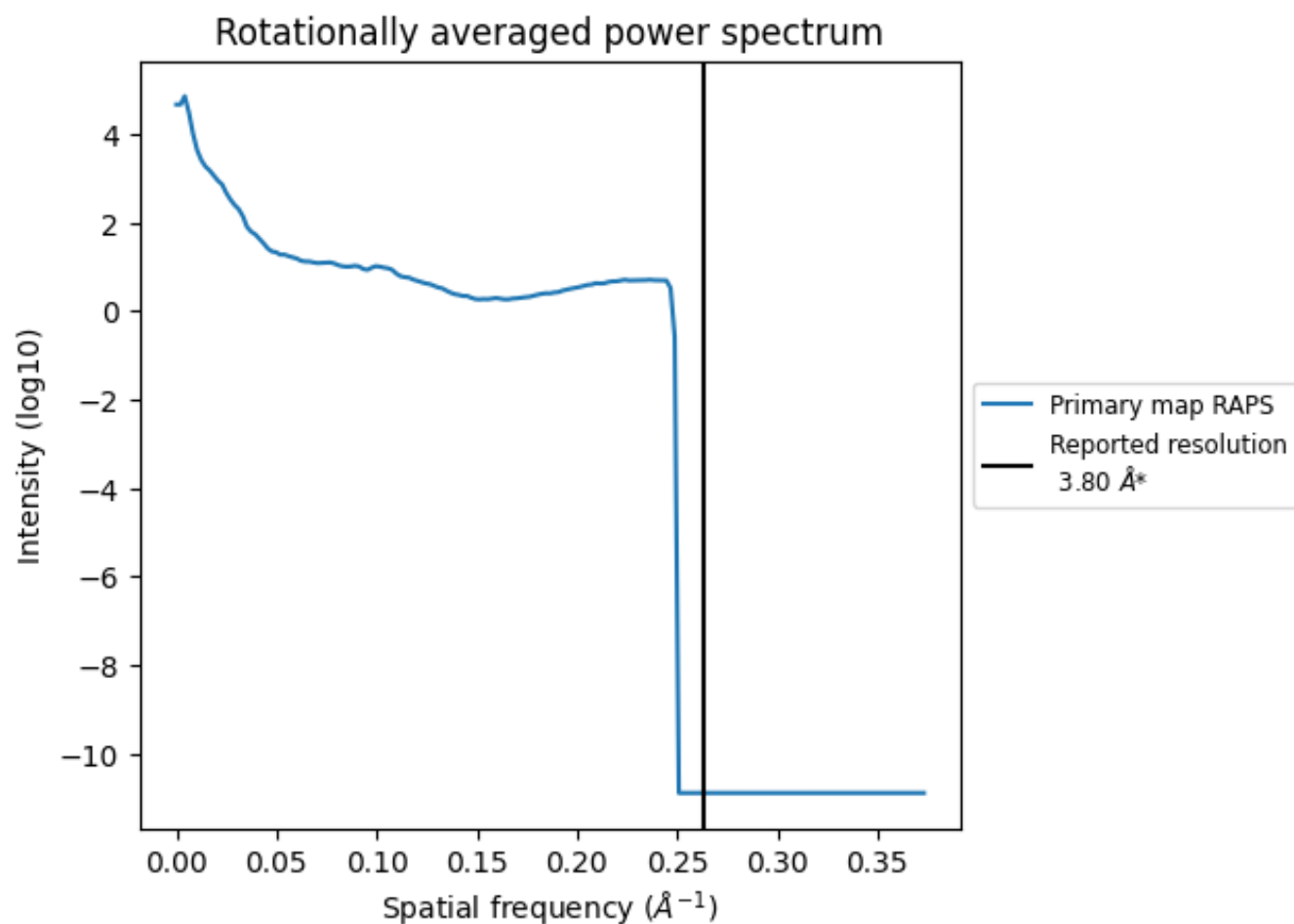
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 655 nm^3 ; this corresponds to an approximate mass of 591 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 0.263 Å⁻¹

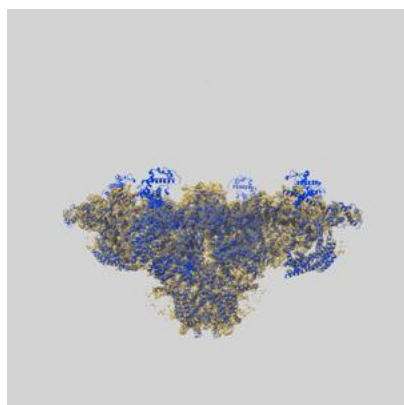
8 Fourier-Shell correlation

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

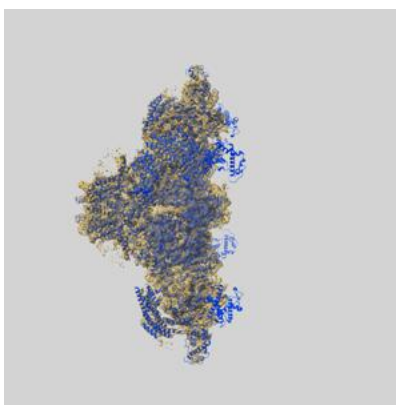
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9518 and PDB model 5GKY. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

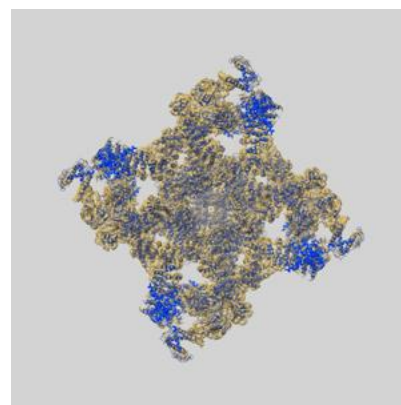
9.1 Map-model overlay [i](#)



X



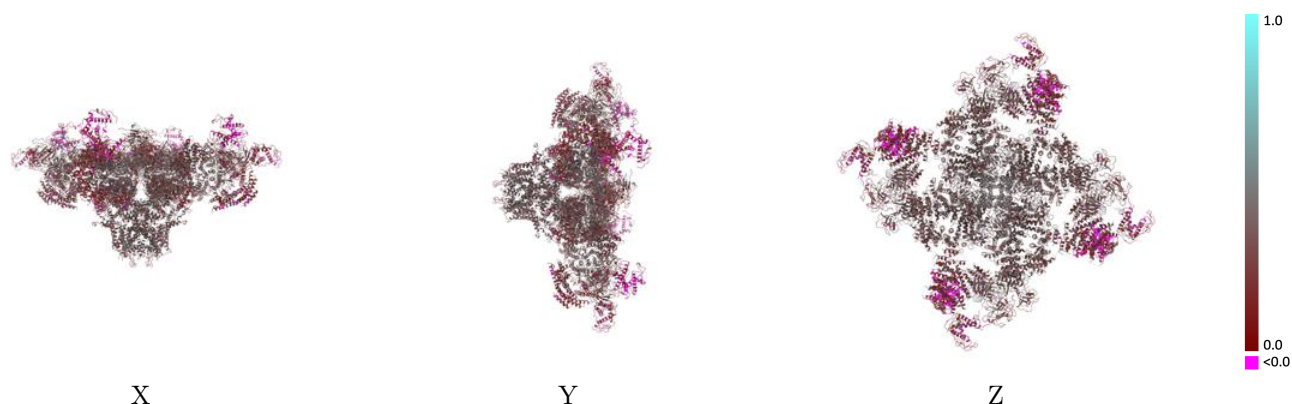
Y



Z

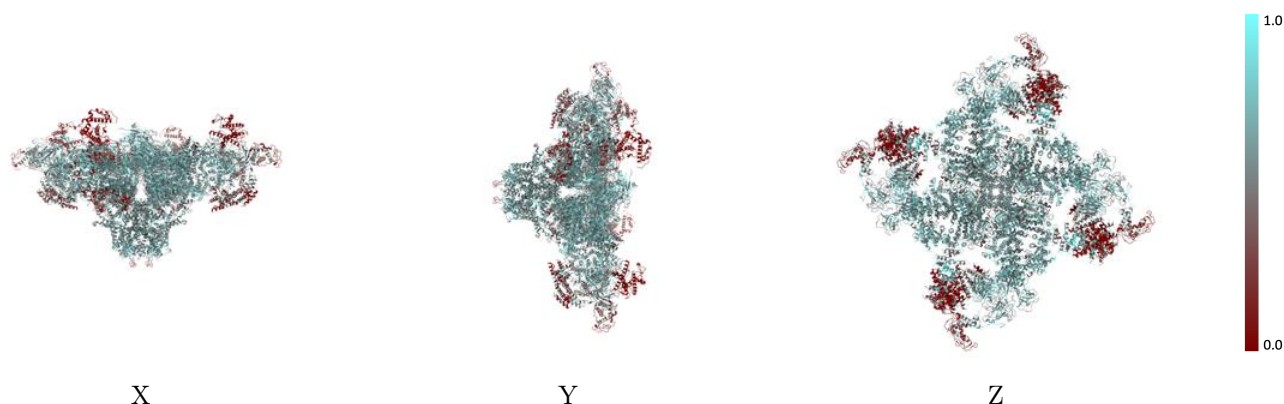
The images above show the 3D surface view of the map at the recommended contour level 0.085 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



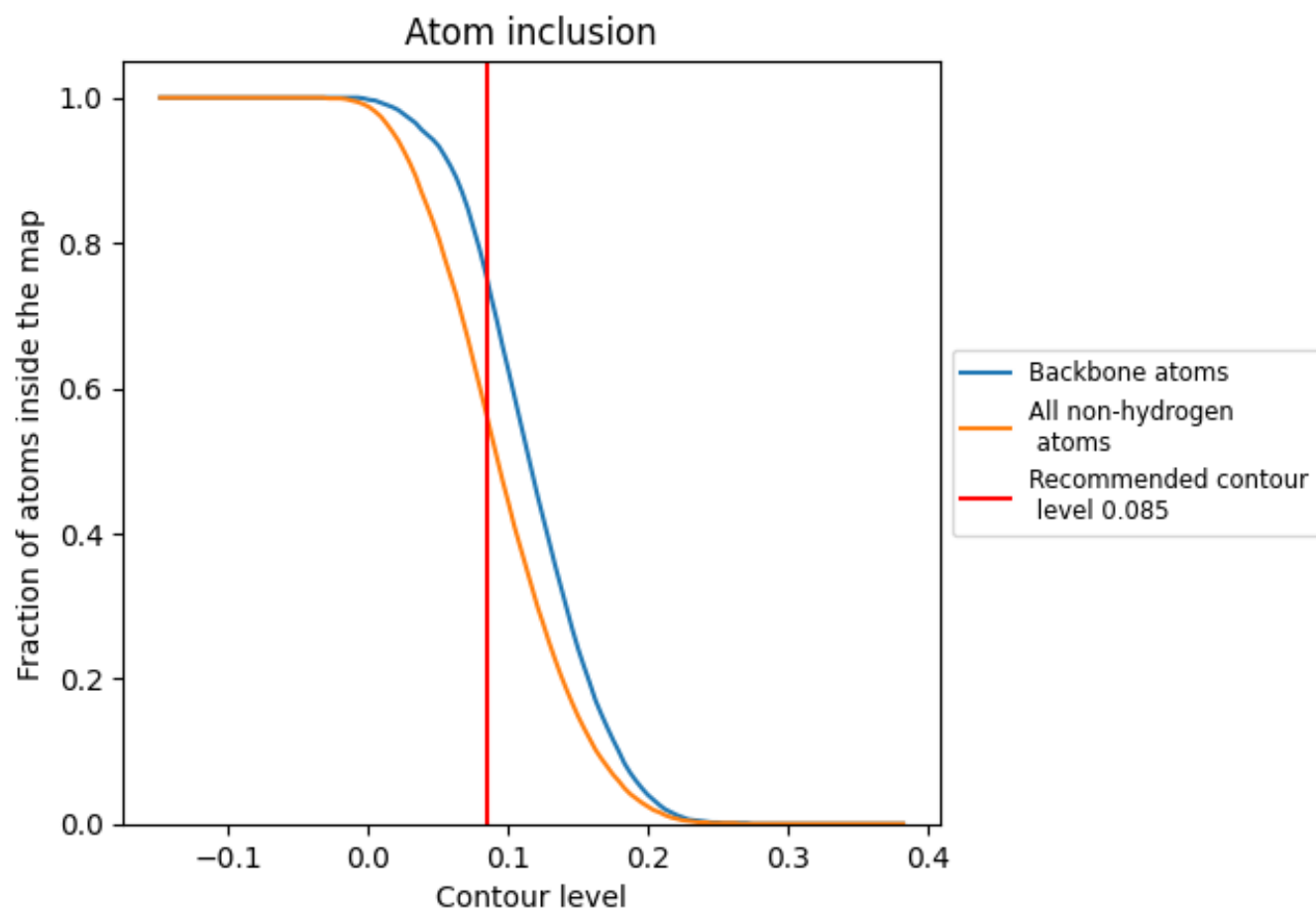
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.085).

9.4 Atom inclusion [i](#)



At the recommended contour level, 75% of all backbone atoms, 56% 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 (0.085) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5630	0.3170
A	0.5630	0.3160
B	0.5760	0.3340
C	0.5630	0.3160
D	0.5760	0.3310
E	0.5630	0.3160
F	0.5740	0.3290
G	0.5630	0.3170
H	0.5740	0.3370

1.0

0.0

<0.0