



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 06:14 AM UTC

PDB ID : 9EI1 / pdb_00009ei1
EMDB ID : EMD-47395
Title : Structure of RyR1 in the open state in the presence of oxopyridicid
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 3.20 Å(reported)
Based on initial model : 7TZC

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

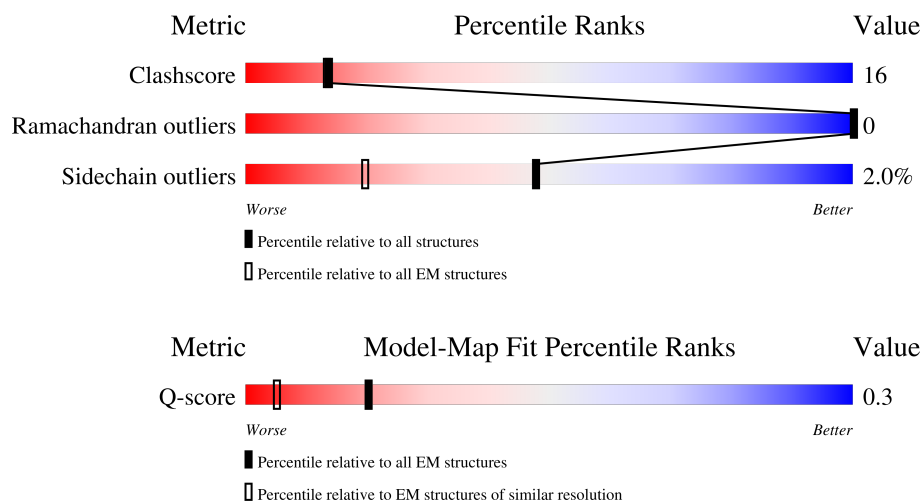
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.20 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	15020 (2.70 - 3.70)

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	B	5037	
1	C	5037	
1	D	5037	

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Mol	Chain	Length	Quality of chain
2	E	108	 79% 71% 27% ..
2	F	108	 77% 72% 26% ..
2	G	108	 78% 72% 26% ..
2	H	108	 77% 70% 29% .

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 144120 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

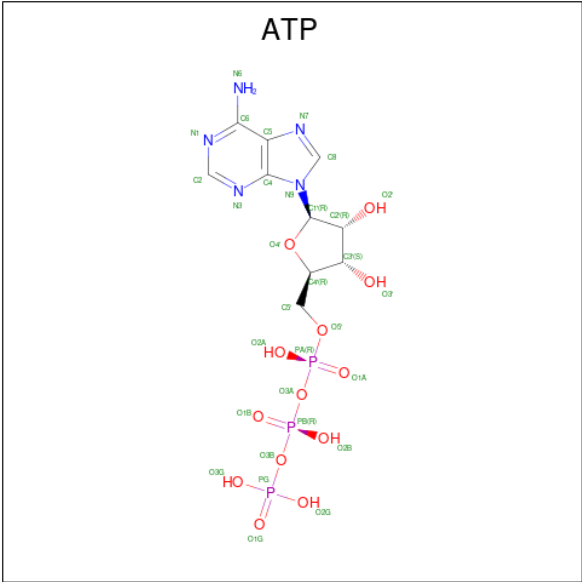
- Molecule 1 is a protein called Ryanodine receptor 1.

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

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

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

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



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

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

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

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

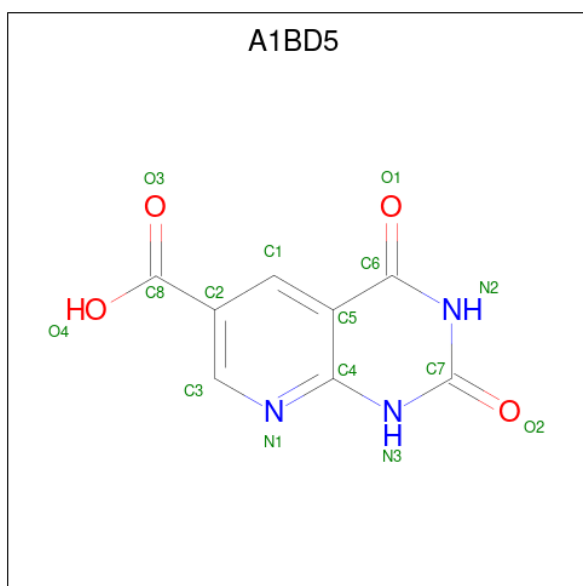
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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

- Molecule 6 is oxopyridicid (CCD ID: A1BD5) (formula: $C_8H_5N_3O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			15	8	3	4	
6	B	1	Total	C	N	O	0
			15	8	3	4	
6	D	1	Total	C	N	O	0
			15	8	3	4	
6	C	1	Total	C	N	O	0
			15	8	3	4	

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		AltConf
7	A	1	Total	O	0
			1	1	
7	B	1	Total	O	0
			1	1	

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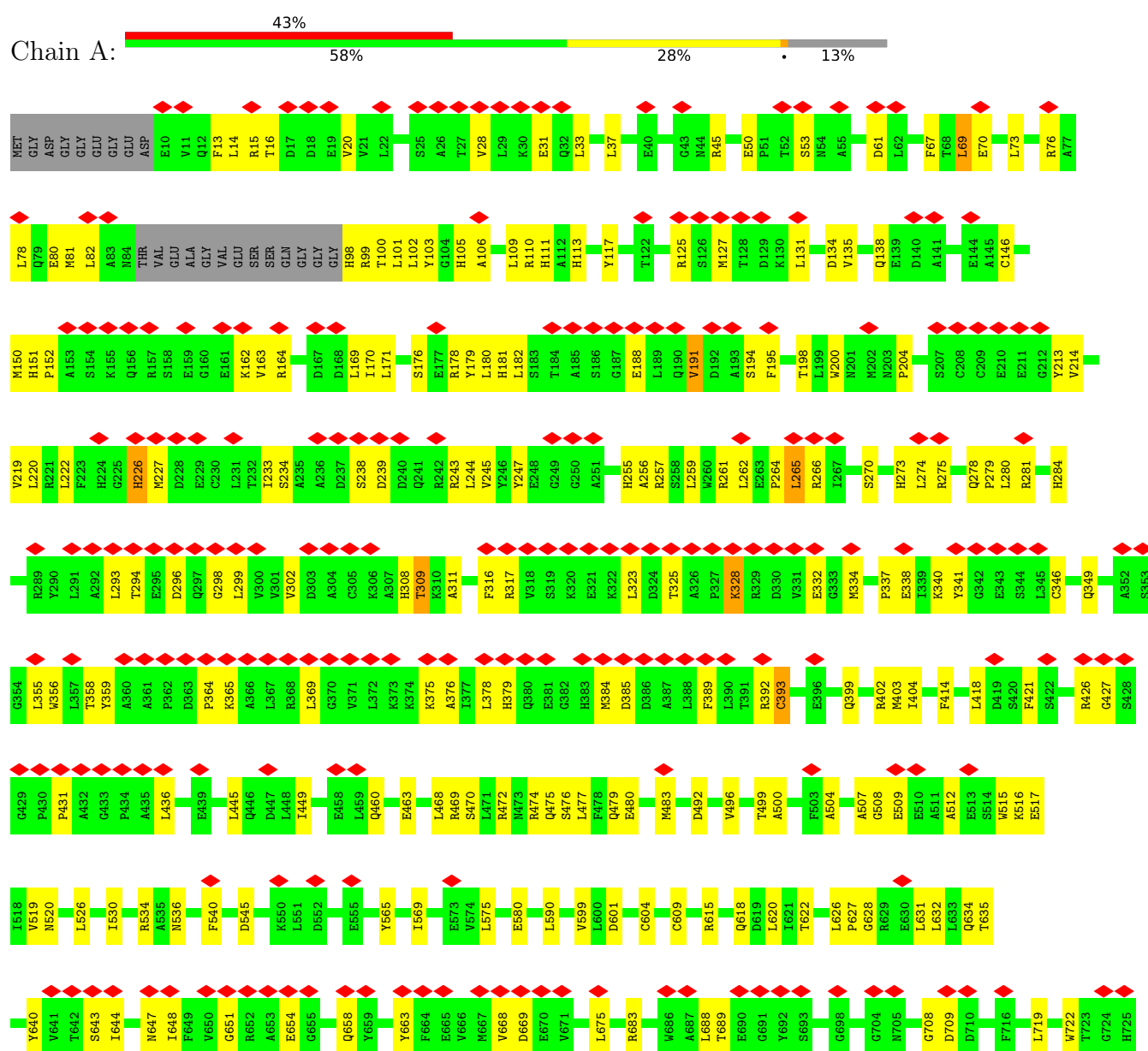
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Mol	Chain	Residues	Atoms		AltConf
7	D	1	Total	O	0
			1	1	
7	C	1	Total	O	0
			1	1	

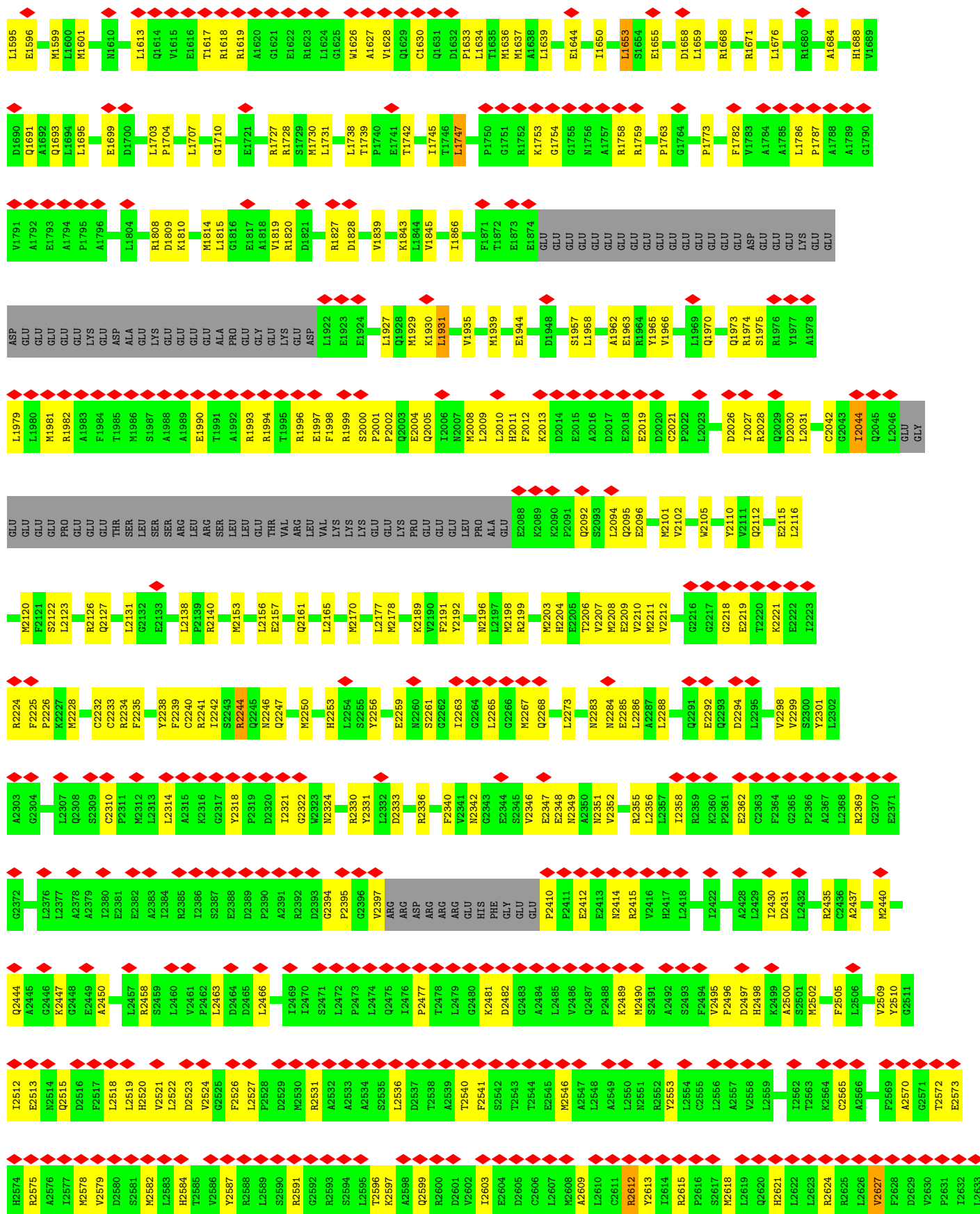
3 Residue-property plots

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

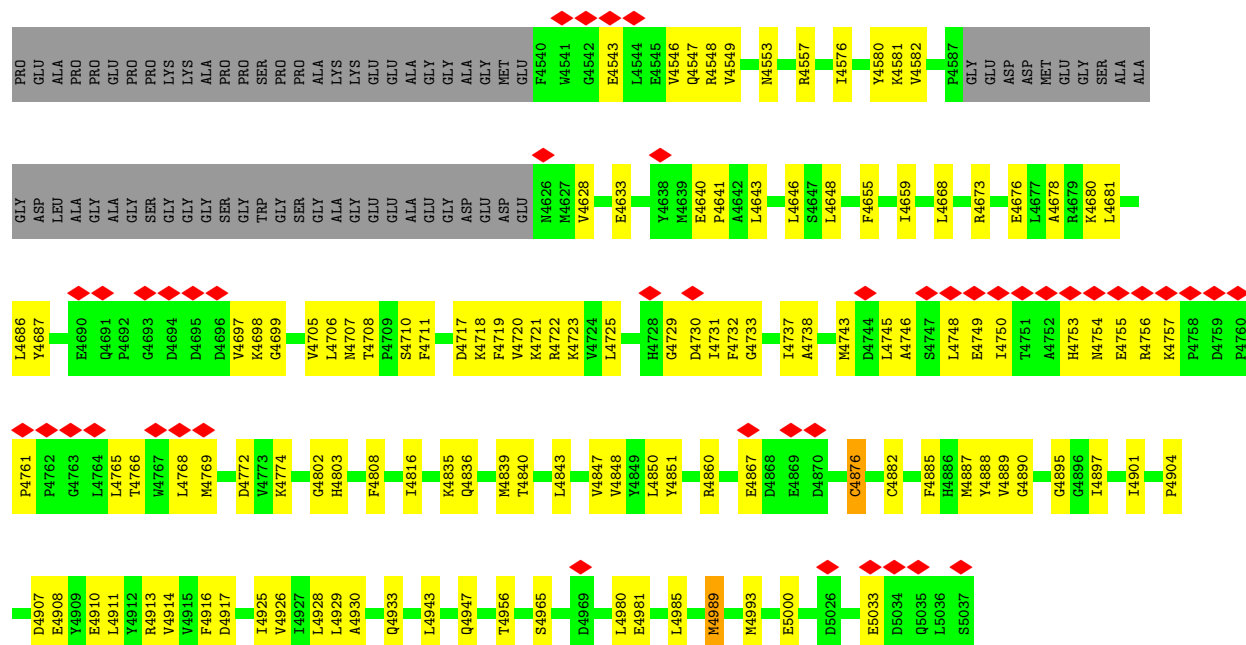




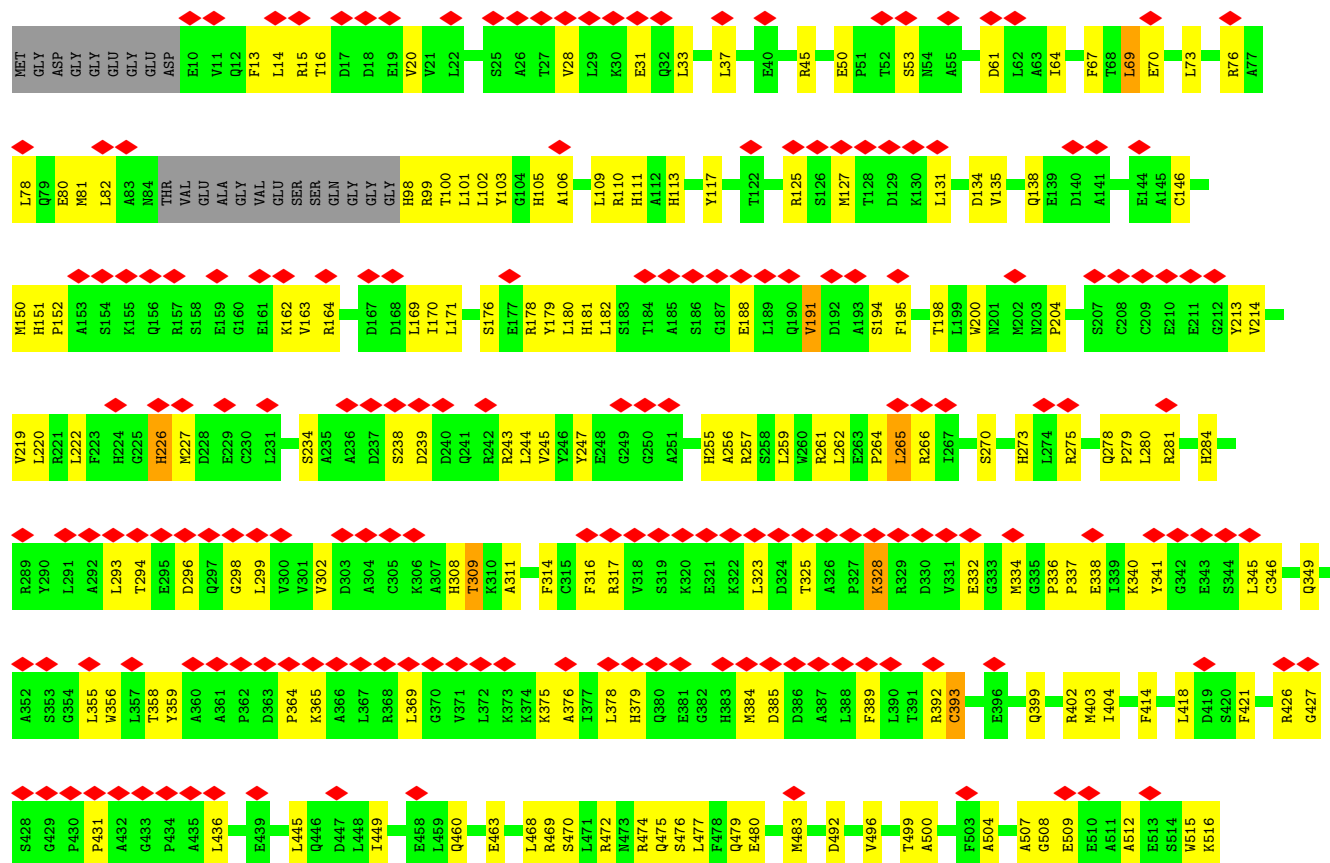
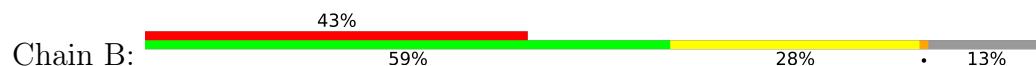


L2634	L2635	F2636	A2637	L2638	L2639	F2640	L2641	L2642	L2643	L2644	T2645	H2646	L2647	L2648	L2649	R2650	C2651	L2652	L2653	L2654	L2655	C2656	L2657	L2658	L2659	G2660	L2661	A2662	L2663	F2664	G2665	L2666	L2667	L2668	L2669	E2670	E2671	L2672	L2673	L2674	L2675	L2676	L2677	L2678	F2679	G2680	G2681	L2682	L2683	L2684	L2685	L2686	L2687	L2688	L2689	L2690	L2691	L2692	G2693
E2694	L2695	Y2696	R2697	M2698	A2699	M2700	P2701	C2702	L2703	C2704	A2705	L2706	A2707	G2708	L2709	L2710	P2711	P2712	D2713	L2714	L2715	D2716	A2717	L2718	L2719	S2720	S2721	K2722	L2723	E2724	K2725	L2726	L2727	L2728	L2729	L2730	L2731	L2732	L2733	L2734	L2735	L2736	L2737	L2738	L2739	L2740	L2741	L2742	L2743	L2744	L2745	L2746	L2747	L2748	L2749	L2750	L2751	L2752	L2753
F2754	L2755	L2756	K2757	L2758	L2759	E2760	L2761	L2762	L2763	E2764	K2765	L2766	L2767	L2768	L2769	L2770	L2771	L2772	N2773	L2774	L2775	L2776	L2777	L2778	L2779	L2780	L2781	L2782	L2783	L2784	L2785	L2786	L2787	L2788	L2789	L2790	L2791	L2792	L2793	L2794	L2795	L2796	L2797	L2798	L2799	L2800	L2801	L2802	L2803	L2804	L2805	L2806	L2807	L2808	L2809	L2810	L2811	L2812	L2813
K2814	A2815	M2816	L2817	L2818	L2819	E2820	L2821	L2822	L2823	E2824	K2825	A2826	L2827	E2828	L2829	E2830	L2831	L2832	L2833	L2834	L2835	L2836	L2837	L2838	L2839	L2840	L2841	L2842	L2843	L2844	L2845	L2846	L2847	L2848	L2849	L2850	L2851	L2852	L2853	L2854	L2855	L2856	L2857	L2858	L2859	L2860	L2861	L2862	L2863	L2864	L2865	L2866	L2867	L2868	L2869	L2870	L2871	L2872	L2873
M2874	A2875	E2876	L2877	L2878	L2879	E2880	L2881	L2882	L2883	L2884	L2885	L2886	L2887	L2888	L2889	L2890	L2891	L2892	L2893	L2894	L2895	L2896	L2897	L2898	L2899	L2900	L2901	L2902	L2903	L2904	L2905	L2906	L2907	L2908	L2909	L2910	L2911	L2912	L2913	L2914	L2915	L2916	L2917	L2918	L2919	L2920	L2921	L2922	L2923	L2924	L2925	L2926	L2927	L2928	L2929	L2930	L2931	L2932	L2933
G2934	Y2935	A2936	L2937	L2938	L2939	L2940	L2941	L2942	L2943	L2944	L2945	L2946	L2947	L2948	L2949	L2950	L2951	L2952	L2953	L2954	L2955	L2956	L2957	L2958	L2959	L2960	L2961	L2962	L2963	L2964	L2965	L2966	L2967	L2968	L2969	L2970	L2971	L2972	L2973	L2974	L2975	L2976	L2977	L2978	L2979	L2980	L2981	L2982	L2983	L2984	L2985	L2986	L2987	L2988	L2989	L2990	L2991	L2992	L2993
E2994	L2995	L2996	L2997	L2998	L2999	K3000	L3001	L3002	L3003	L3004	L3005	L3006	L3007	L3008	L3009	L3010	L3011	L3012	L3013	L3014	L3015	L3016	L3017	L3018	L3019	L3020	L3021	L3022	L3023	L3024	L3025	L3026	L3027	L3028	L3029	L3030	L3031	L3032	L3033	L3034	L3035	L3036	L3037	L3038	L3039	L3040	L3041	L3042	L3043	L3044	L3045	L3046	L3047	L3048	L3049	L3050	L3051	L3052	L3053
L3054	L3055	L3056	L3057	L3058	L3059	L3060	L3061	L3062	L3063	L3064	L3065	L3066	L3067	L3068	L3069	L3070	L3071	L3072	L3073	L3074	L3075	L3076	L3077	L3078	L3079	L3080	L3081	L3082	L3083	L3084	L3085	L3086	L3087	L3088	L3089	L3090	L3091	L3092	L3093	L3094	L3095	L3096	L3097	L3098	L3099	L3100	L3101	L3102	L3103	L3104	L3105	L3106	L3107	L3108	L3109	L3110	L3111	L3112	L3113
K3114	L3115	L3116	L3117	L3118	L3119	L3120	L3121	L3122	L3123	L3124	L3125	L3126	L3127	L3128	L3129	L3130	L3131	L3132	L3133	L3134	L3135	L3136	L3137	L3138	L3139	L3140	L3141	L3142	L3143	L3144	L3145	L3146	L3147	L3148	L3149	L3150	L3151	L3152	L3153	L3154	L3155	L3156	L3157	L3158	L3159	L3160	L3161	L3162	L3163	L3164	L3165	L3166	L3167	L3168	L3169	L3170	L3171	L3172	L3173
L3174	L3175	L3176	L3177	L3178	L3179	L3180	L3181	L3182	L3183	L3184	L3185	L3186	L3187	L3188	L3189	L3190	L3191	L3192	L3193	L3194	L3195	L3196	L3197	L3198	L3199	L3200	L3201	L3202	L3203	L3204	L3205	L3206	L3207	L3208	L3209	L3210	L3211	L3212	L3213	L3214	L3215	L3216	L3217	L3218	L3219	L3220	L3221	L3222	L3223	L3224	L3225	L3226	L3227	L3228	L3229	L3230	L3231	L3232	L3233
L3234	L3235	L3236	L3237	L3238	L3239	L3240	L3241	L3242	L3243	L3244	L3245	L3246	L3247	L3248	L3249	L3250	L3251	L3252	L3253	L3254	L3255	L3256	L3257	L3258	L3259	L3260	L3261	L3262	L3263	L3264	L3265	L3266	L3267	L3268	L3269	L3270	L3271	L3272	L3273	L3274	L3275	L3276	L3277	L3278	L3279	L3280	L3281	L3282	L3283	L3284	L3285	L3286	L3287	L3288	L3289	L3290	L3291	L3292	L3293
L3294	L3295	L3296	L3297	L3298	L3299	L3300	L3301	L3302	L3303	L3304	L3305	L3306	L3307	L3308	L3309	L3310	L3311	L3312	L3313	L3314	L3315	L3316	L3317	L3318	L3319	L3320	L3321	L3322	L3323	L3324	L3325	L3326	L3327	L3328	L3329	L3330	L3331	L3332	L3333	L3334	L3335	L3336	L3337	L3338	L3339	L3340	L3341	L3342	L3343	L3344	L3345	L3346	L3347	L3348	L3349	L3350	L3351	L3352	L3353
L3354	L3355	L3356	L3357	L3358	L3359	L3360	L3361	L3362	L3363	L3364	L3365	L3366	L3367	L3368	L3369	L3370	L3371	L3372	L3373	L3374	L3375	L3376	L3377	L3378	L3379	L3380	L3381	L3382	L3383	L3384	L3385	L3386	L3387	L3388	L3389	L3390	L3391	L3392	L3393	L3394	L3395	L3396	L3397	L3398	L3399	L3400	L3401	L3402	L3403	L3404	L3405	L3406	L3407	L3408	L3409	L3410	L3411	L3412	L3413

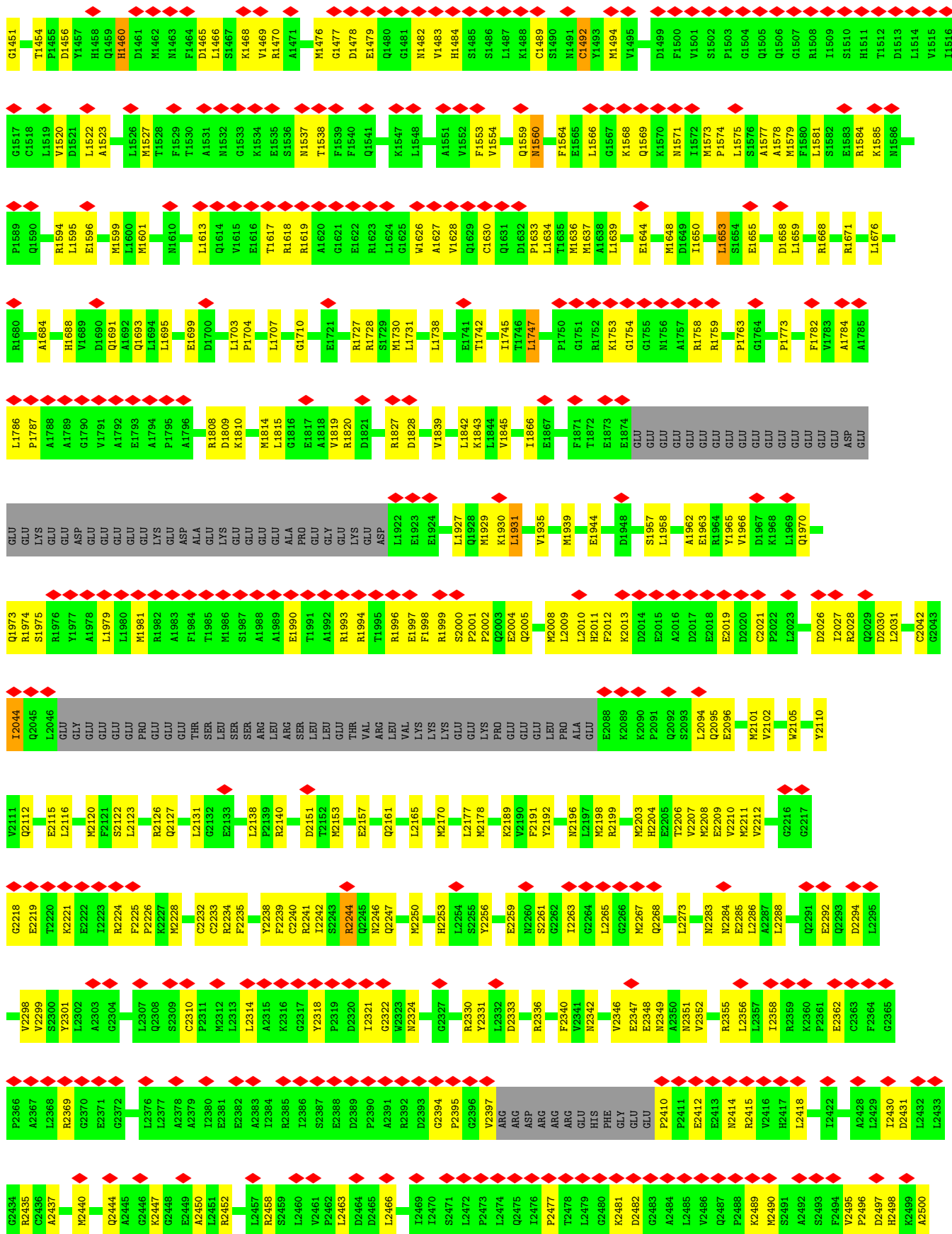




• Molecule 1: Ryanodine receptor 1







R3225	C3165	K3105	K3045	R2985	E2925	V2865	Y2805	V2745	S2685	R2625	K2564	S2501
E3226	Y3166	M3106	L3046	V2986	L2926	T2866	R2806	L2746	L2686	L2626	C2565	M2502
R3227	R3167	V3107	A3047	E2987	L2927	L2867	W2807	T2747	A2687	V2627	A2566	F2505
A3228	T3168	E3108	A3048	K2988	K2928	S2868	P2808	P2748	H2688	F2628	F2569	L2506
L3229	L3169	N3109	L3049	S2989	F2929	R2869	L2809	E2749	R2689	D2629	A2570	V2509
L3230	C3170	L3110	V3050	P2990	L2930	E2870	K2810	K2750	K2690	V2630	A2570	V2509
G3231	S3171	R3051	R3051	H2991	Q2931	L2871	E2811	L2751	Y2691	P2631	G2571	G2510
L3232	L3172	L3112	H3052	E2992	M2932	Q2872	S2812	D2752	D2692	L2632	G2571	G2510
P3233	G3113	G3113	K3053	Q2993	N2933	A2873	L2813	S2753	Q2693	L2633	T2572	T2510
M3234	S3174	K3114	V3054	E2994	Q2934	M2874	K2814	F2754	E2694	M2634	H2574	E2513
S3235	L3175	V3115	S3055	L2995	Y2935	A2875	A2815	N2755	L2695	E2635	R2575	Q2515
V3236	G3176	S3116	L3056	K2996	A2936	E2876	N2816	N2756	Y2696	F2636	A2576	D2516
E3237	T3177	GLN	F3057	F2997	V2937	Q2877	L2817	K2757	R2697	A2637	L2577	F2517
E3238	T3178	ALA	G3058	F2998	T2938	L2878	A2818	F2758	M2698	K2638	M2578	L2518
M3239	K3179	ARG	T3059	F2999	T2938	L2878	A2818	A2759	A2699	M2639	V2579	L2519
K3240	N3180	THR	A2999	R2939	R2939	E2879	W2819	E2759	D2699	P2640	H2520	H2520
C3241	K3180	GLN	D3060	K3000	GLY	E2880	E2820	E2760	N2700	R2640	D2580	R2520
F3241	T3181	VAL	A3061	I3001	LYU	N2881	E2821	Y2761	P2701	L2641	V2521	V2521
D3242	Y3182	K3123	P3062	L3002	LYS	Y2882	T2822	T2762	C2702	K2642	M2582	L2522
L3243	V3183	G3124	A3063	L3003	MET	H2883	L2823	H2763	L2703	L2643	L2583	D2523
P3244	E3184	V3125	V3064	P3004	GLU	N2884	E2824	E2764	C2704	L2644	H2694	V2524
V3245	K3185	G3126	V3065	L3005	L2946	T2885	K2825	K2765	A2705	T2645	T2585	G2525
L3246	L3186	Q3127	N3066	I3006	D2947	V2886	A2826	W2766	R2706	N2646	V2587	F2526
R3247	R3187	D3247	C3067	I3007	T2948	G2887	E2827	A2767	A2707	H2647	Y2587	L2527
R3248	L3188	L3129	L3068	Q3008	S2949	R2888	E2828	F2768	Q2708	F2648	R2588	F2528
L3249	A3189	T3130	H3069	Y3009	S2950	K2889	G2829	D2769	A2709	E2649	D2529	M2530
M3250	L3190	Y3131	T3070	F3010	L2951	K2890	E2830	K2770	L2710	R2650	S2590	R2531
A3251	G3191	T3132	L3071	T3011	E2952	K2891	GLU	I2771	P2711	C2651	R2591	A2532
D3252	C3193	T3133	A3072	N3012	K2953	Q2892	THR	Q2772	P2712	W2652	G2592	A2533
G3254	L3194	V3134	R3073	H3013	R2954	E2893	ARG	T2773	D2713	K2653	R2593	A2534
G3255	A3195	A3135	S3074	C3014	F2955	L2894	GLU	N2774	Y2714	Y2654	S2594	S2535
R3256	R3196	L3136	L3075	L3015	A2956	E2895	LYS	W2775	V2715	L2655	L2596	L2536
L3257	L3197	L3137	D3076	Y3016	F2957	A2896	LYS	S2776	D2716	C2656	T2597	L2537
A3258	A3198	P3138	A3077	F3017	Q2958	K2897	THR	Y2777	A2717	L2657	A2598	D2537
S3259	A3199	V3139	R3078	L3018	F2959	G2898	ARG	T2778	S2718	P2658	Q2599	T2538
G3260	A3200	L3140	T3079	S3019	F2960	G2899	LYS	G2778	R2719	T2659	R2600	A2539
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P3202	P3202	F3144	K3082	A3022	L2963	T2901	THR	D2782	K2722	A2662	V2603	S2542
V3203	V3203	F3144	S3083	K3023	L2964	H2902	ALA	E2783	A2723	N2663	L2603	T2543
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M3266	L3206	I3147	E3086	G3026	M2967	L2906	THR	L2785	ASP	G2665	C2606	M2546
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L3210	L3210	Q3151	A3090	H3030	Q2971	D2909	GLY	P2789	VAL	E2669	A2609	L2550
N3211	N3211	F3152	A3091	A3031	E2972	T2910	GLY	M2790	ASP	C2611	L2610	L2551
E3271	E3271	G3153	L3092	S3032	F2973	L2911	N2856	L2791	ALA	R2612	C2611	R2552
Y3212	Y3212	D3154	R3093	N3033	L2974	T2912	P2857	R2792	GLY	Y2613	T2614	Y2553
L3214	L3214	V3155	S3094	K3034	A2975	A2913	Q2858	P2793	W2734	L2614	R2614	L2554
C3215	C3215	D3156	F3096	E3035	H2976	K2914	P2859	T2795	F2735	R2615	R2615	C2555
A3216	A3216	L3157	F3096	E3035	H2976	E2915	P2860	K2795	D2736	P2616	P2616	L2556
M3276	M3276	L3158	F3096	K3036	L2977	K2916	L2861	T2796	P2737	S2617	S2617	A2557
S3217	S3217	L3177	F3096	E3037	L2977	E2978	L2862	T2796	P2737	R2676	R2676	V2558
V3218	V3218	L3177	F3096	E3037	L2977	E2978	L2862	T2796	P2737	R2676	R2676	L2558
L3219	L3219	D3160	S3098	M3038	A2979	A2917	L2862	T2796	P2737	K2677	M2618	L2559
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T3220	T3220	V3161	A3099	I3039	V2980	R2918	S2863	F2797	R2739	L2678	L2678	L2562
L3281	L3281	Q3162	S3100	T3040	V2981	D2919	G2864	S2798	V2740	Q2620	Q2620	T2563
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P3282	P3282	V3163	D3102	F3043	S2982	R2920	S2863	E2741	L2743	L2622	L2622	
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GLU	S4151	D4070	Q3970	E3848	GLU	E3655	F3589	D3529	F3469	F3409	A3349	F3289
GLY	E4152	V4072	G3971	R3849	GLU	S3656	S3590	Q3530	L3470	P3410	R3350	G3290
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GLU			T3974	A3853		A3659	V3593	I3533	D3473	T3413	L3353	P3293
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ALA			S3979	G3855		T3664	R3595	L3535	K3475	F3415	H3355	A3295
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ALA			A3981	G3857			V3597	K3537	K3477	V3417	H3357	P3297
GLU				M3858		D3675	Q3597	T3538	N3478	D3418	F3358	A3298
GLY			R3984	V3859		D3676	F3598		M3479	N3419	I3359	G3299
ALA			L3985	N3860		R3762	V3599	R3539				
ALA				E3861		K3679	S3600	Y3540	LYS	R3420	P3360	A3300
THR			F3996	D3862		G3680	A3601	A3541	ALA	A3421	T3361	A3301
VAL				G3863		G3681	V3602	L3542	GLY	H3422	I3362	P3302
ALA			M3999	T3864		E3682	A3603	K3543	ASP	W3423	G3363	F3303
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ALA			Q4005	R3868		E3686	L3606		GLY	P3427	K3367	V3307
LEU			D4006	Q3869		E3687	E3607	E3547	SER	N3428	R3368	T3308
ALA			S4007	N3870		E3688	Q3608	E3548	ASP	A3429	A3369	S3309
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ALA			E4011	K3874		E3692	F3612	F3552	LYS	L3433	V3373	L3313
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ALA			L4013	D3877		D3696	K3614	K3554	R3498	F3435	E3375	L3315
ALA			L4014	D3878			S3615	N3555	R3499	R3436	E3376	L3316
ALA			E4015	F3879		R3707	K3616	N3556	G3500	M3437	E3377	G3317
LEU			L4016	F3880			K3617	L3557	D3501	V3438	Q3378	N3318
LEU			L4017				A3618	H3558	R3502	G3439	L3379	I3319
LEU			L4018				V3619	L3559	Y3503	E3440	R3380	L3320
LEU			Q4020				K3620	G3560	S3504	I3441	L3381	R3321
VAL			A4041				H3621	G3561	V3505	F3442	E3382	I3322
VAL			V4045				K3622	K3562	Q3506	I3443	A3383	I3323
ARG							L3623	V3563	T3507	Y3444	K3384	V3324
ARG			E4050				L3624	E3564	S3508	W3445	A3385	N3325
LEU			E4056				S3625	G3565	L3509	S3446	E3386	N3326
ARG							K3626	S3566	I3510	K3447	A3387	L3327
GLY							Q3627	P3567	V3511	S3448	E3388	G3328
GLY							K3628	S3568	A3512	G3390	E3389	I3329
LEU							R3629	L3569	T3513	N3450	G3391	E3331
THR							R3630	R3570	L3514	K3452	L3392	A3332
ALA							A3631	V3571	K3515	R3453	L3393	T3333
ALA							V3632	Q3572	K3516	E3454	V3394	W3334
ASP							V3633	A3574	L3517	E3455	R3395	H3335
GLU							A3634	L3575	T3520	Q3456	R3396	K3336
GLU							G3635	R3576	I3521	N3457	E3397	R3337
GLY							R3637	K3577	L3522	F3458	F3398	L3338
MET							K3638	G3578	N3523	V3459	S3399	A3339
							T3639	L3579		V3460	V3400	Y3340
							P3640	P3580		Q3461	L3401	F3341
							L3641	G3581		N3462	C3402	A3342
							N3643	R3582		E3463	R3403	Q3343
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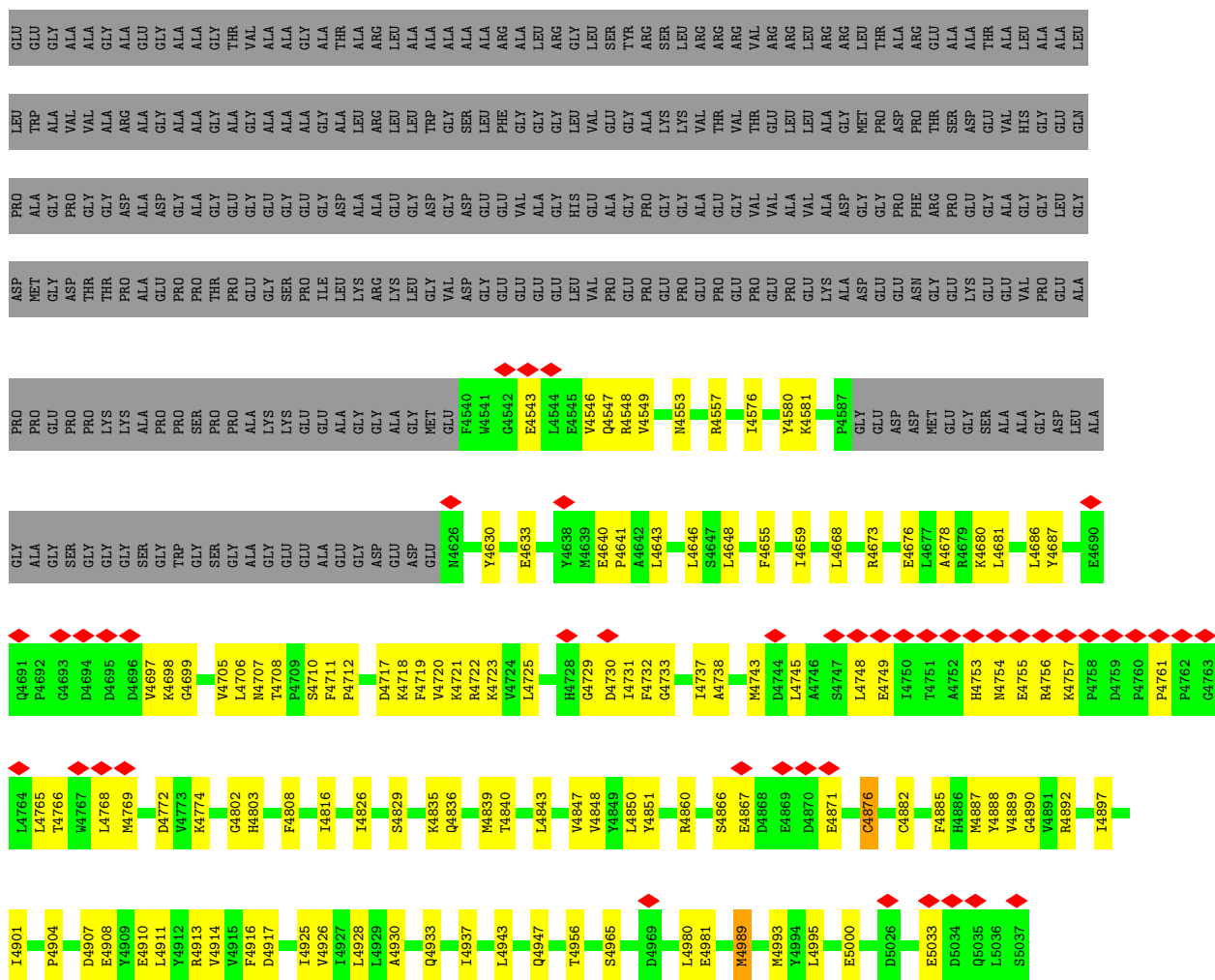




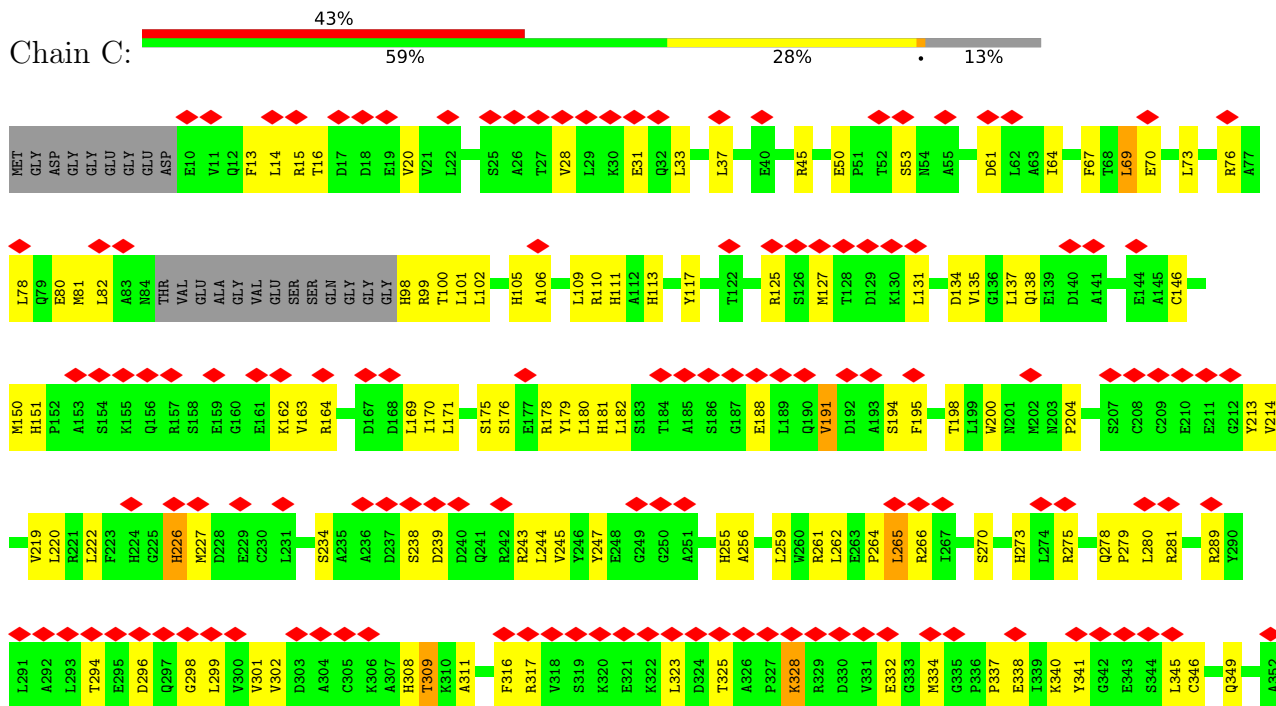


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		N3860	D3675	V3599	R3539	A3479	N3419	I3359	K3239
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E4015	L4016	K3873	E3691	K3613	L3552	LYS	E3432	V3372	D3252
L4017	L4017	V3874	E3692	K3614	K3553	LYS	L3434	V3373	I3253
D4018	D4018	D3877	E3693	S3615	Q3554	LYS	F3435	G3374	G3254
L4019	Q4020	D3878	D3696	K3616	R3555	R3498	R3436	E3375	G3255
Q4020	M4023	K3793	K3707	K3617	N3556	R3499	R3437	E3376	L3256
L4040	L4040	V3794	R3707	A3618	L3557	G3500	K3437	E3377	K3257
A4041	A4041	V3798	R3710	V3619	L3558	R3502	V3438	Q3378	E3258
V4045	V4045	L3798	T3711	W3620	L3559	Y3503	G3439	L3379	S3259
E4050	E4050	T3802	H3621	H3621	Q3560	S3504	E3440	R3380	G3260
E4056	E4056	L3805	K3622	K3622	G3561	V3505	I3441	L3381	A3261
K4060	K4060	V3812	L3623	L3624	K3562	Q3506	F3442	I3322	R3262
F4061	F4061	K3816	L3624	S3625	V3563	T3507	Y3444	I3323	Y3263
F4062	F4062	K3823	S3626	K3626	E3564	S3508	W3445	V3324	T3264
D4063	D4063	A3834	K3627	K3628	G3565	L3509	S3446	N3325	G3265
M4064	M4064	L3835	R3628	R3629	S3566	L3510	K3447	E3386	E3266
F4065	F4065	T3838	A3631	A3631	F3567	V3511	E3448	A3387	F3267
L4066	L4066	K3729	R3632	R3630	L3568	A3512	H3449	G3388	H3268
K4067	K4067	K3730	V3633	V3630	R3570	L3513	N3450	G3389	V3269
L4068	L4068	K3731	A3632	A3632	K3571	L3514	K3451	C3390	I3270
K4069	K4069	H3734	V3632	V3632	Q3572	K3515	K3452	E3391	E3271
D4070	D4070	L3735	V3633	V3633	K3573	K3516	L3392	L3392	I3272
L4071	L4071	E3736	A3634	A3634	K3574	M3517	L3393	T3333	T3273
G4072	G4072	GLU	C3635	C3635	A3574	L3518	E3454	W3394	L3274
S4074	S4074	GLY	F3636	F3636	L3575	P3519	E3455	R3395	P3275
E4075	E4075	GLY	R3637	R3637	Y3576	I3520	Q3456	D3396	P3276
A4076	A4076	ASN	R3638	R3638	R3577	G3521	N3457	E3397	L3277
E4077	E4077	GLY	K3852	K3852	K3578	L3522	F3458	F3398	C3278
Q4078	Q4078	GLU	A3853	A3853	L3579	N3523	V3459	S3399	S3279
D4079	D4079	ALA			P3580	M3524	V3460	V3400	Y3280
		GLU			G3581	A3526	Q3461	L3401	L3281
		GLU			K3582	C3525	N3462	C3402	I3282
		GLU			E3583	P3527	R3403	R3403	K3283
		GLU			E3584	T3528	D3404	D3404	W3284
					D3585	D3529	N3465	L3405	W3285
					K3586	Q3530	N3466	Y3406	G3286
					D3587	D3531	M3467	A3407	R3287
					D3588	L3532	F3468	L3408	G3288
					P3589		F3469	Y3409	P3289
					K3590		L3470	P3410	E3290
					K3591		T3471	L3411	A3291
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- Molecule 1: Ryanodine receptor 1

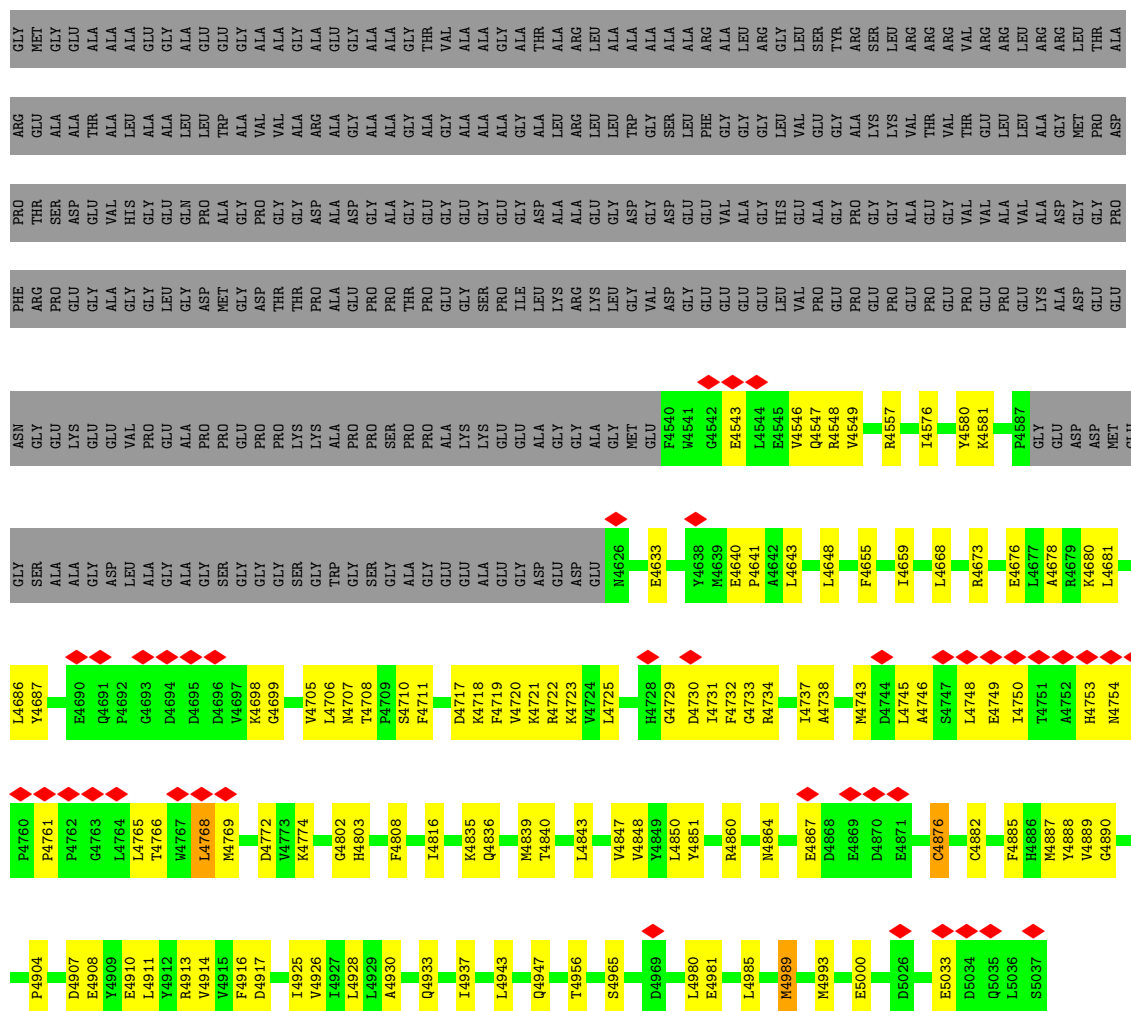




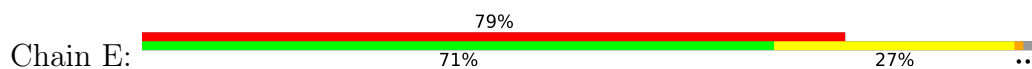


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S3174	V3054	V3054	E2994	K2934	M2874	L2814	F2754	M2634	H2574	E2513	K2447
L3175	V3115	S3055	I2995	Y2935	A2875	A2815	I2755	E2635	R2575	N2514	G2448
G3176	S3116	L3056	K2996	A2936	E2876	M2816	N2756	Y2696	A2576	Q2515	E2449
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K3182	K3123	P3062	L3002	LYS	Y2882	T2822	T2762	L2702	K2642	L2522	V2461
V3183	G3124	A3063	L3003	ASP	H2883	I2823	H2763	C2703	M2583	D2523	V2461
E3184	V3125	V3064	P3004	GLU	N2884	E2824	E2764	C2704	H2584	V2524	P2462
K3185	G3126	V3065	L3005	L2946	T2885	K2825	K2765	A2705	T2585	G2525	L2463
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R3187	L3068	C3067	N3007	T2948	Q2887	A2827	A2767	A2707	Y2587	L2527	D2465
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G3191	T3130	I3070	F3010	I2951	K2890	E2830	K2770	L2710	R2591	M2530	G2469
L3192	T3132	L3071	T3011	E2952	K2891	GLU	I2771	P2711	G2592	P2531	S2471
C3193	T3133	A3072	N3012	K2953	Q2892	ARG	Q2772	P2712	R2593	A2532	L2472
L3194	V3134	R3073	H3013	R2954	E2893	THR	N2773	D2713	K2594	A2534	P2473
A3195	A3135	S3074	C3014	P2955	L2894	GLU	N2774	Y2714	S2594	G2535	L2474
L3196	L3136	L3075	L3015	A2956	E2895	LYS	W2775	V2715	T2596	L2536	Q2475
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L3197	F3138	A3077	F3017	G2958	K2897	THR	Y2777	A2717	A2598	P2477	G2478
A3198	V3139	L3078	L3018	F2959	G2898	ARG	G2778	S2718	Q2599	T2540	L2479
I3199	L3140	T3079	S3019	L2960	Q2899	LYS	E2779	Y2719	R2600	F2541	G2480
L3200	T3141	V3080	T3020	Q2961	G2900	SER	N2780	S2720	D2601	S2542	K2481
M3201	T3142	M3081	P3021	L2963	T2901	GLN	V2781	S2721	V2602	G2482	L2482
P3202	L3143	K3082	A3022	L2964	H2902	THR	D2782	K2722	I2603	T2543	D2483
V3203	F3144	S3083	K3023	R2965	L2903	ALA	E2783	A2723	E2604	E2545	A2484
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F3205	H3146	P3085	L3025	W2967	L2905	TYR	E2785	K2725	C2606	A2547	L2486
L3206	E3086	E3086	G3026	M2967	V2906	ASP	K2786	LYS	L2607	L2548	Q2487
F3207	A3148	I3087	S3027	D2968	P2907	PRO	T2787	ALA	A2609	A2549	P2488
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Q3209	Q3151	A3090	H3030	Q2971	T2910	LYS	M2790	GLU	R2612	R2552	S2491
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E3212	G3153	L3092	S3032	F2973	T2912	P2857	R2793		I2614	L2554	S2493
Y3213	L3154	R3093	N3033	A2975	K2914	Q2858	P2794		R2615	C2555	F2494
A3214	D3155	S3094	K3034	E2976	E2915	P2860	Y2794		L2616	L2556	V2495
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C3216	I3157	F3096	K3036	L2977	K2916	L2862	T2796		R2618	V2558	T2497
S3217	L3158	E3097	E3037	A2978	A2917	L2862	F2797		L2619	L2559	H2498
F3218	D3159	S3098	M3038	K2978	E2918	S2863	S2798		Q2620		R2499
Y3219	D3160	A3099	I3039	V2980	R2918	G2864	E2799		H2621	T2562	A2500
T3220	V3161	S3100	T3040	V2981	S2920	V2865	K2800		L2622	K2564	S2501
T3221	Q3162	E3101	S3041	S2982	E2921	T2866	D2801		L2623		W2502
K3222	V3163	D3102	L3042	G2984	K2922	L2867	K2802		R2624	C2565	F2505
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E3226	R3167	M3106	L3046	E2987	L2926	L2871	W2806		R2627	A2570	Y2510
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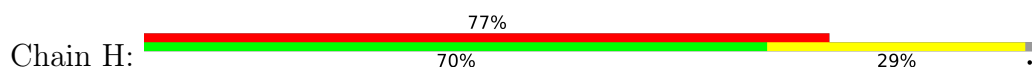
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F4158	S4074	T3973	E3854	A3659	R3594	M3534	L3354	P3294	K3234
L4160	E4075	Q3978	L3855	T3662	R3595	L3535	H3355	A3295	S3235
R4161	F4076	S3979	E3755	L3663	V3596	K3536	S3356	L3296	V3236
R4162	F4077	L3980	E3757	L3664	K3597	K3537	H3357	P3297	E3237
F4163	G4078	K3981	E3665	E3668	E3598	T3538	F3358	A3298	E3238
L4164	D4079	V3859	D3675	V3599	V3599	R3539	I3359	G3299	H3239
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D4083	D4083	L3985	K3679	A3541	L3542	ALA	T3362	P3301	P3241
P4084	P4084	V3995	A3680	L3544	L3542	GLY	I3362	P3302	D3242
R4085	R4085	F3996	G3681	D3544	K3543	ASP	G3363	P3303	I3243
G4086	G4086	K3999	E3682	L3546	L3543	ALA	R3364	C3304	I3243
K4090	K4090	Q4002	E3683	E3547	H3605	SER	L3365	T3305	P3244
K4091	L4003	L4003	Q3684	E3548	L3606	GLY	R3366	A3306	V3245
L4092	A4004	A4004	E3685	E3549	E3607	SER	K3367	V3307	L3246
F4093	Q4005	Q4005	E3686	T3609	Q3608	ASP	R3368	T3308	D3247
Q4094	D4006	D4006	E3687	E3610	T3609	GLN	A3369	S3309	R3248
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A4096	Q4009	L3782	E3689	H3612	R3550	ARG	K3371	H3311	H3250
M4097	L4010	L3783	V3690	P3612	E3551	THR	V3372	L3312	A3251
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L4016	L4016	V3794	R3707	A3618	L3557		E3377	A3257	L3256
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D4018	L4018	I3802	L3805	V3620	H3559		R3379	S3259	S3259
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Q4020	Q4020	L3805	L3805	K3622	G3561		L3381	A3261	A3261
M4023	M4023	L3805	L3805	L3623	K3562		E3382	R3262	R3262
I4040	I4040	L3805	L3805	L3624	V3563		K3384	Y3263	Y3263
A4041	A4041	L3805	L3805	L3624	E3564		A3385	T3264	T3264
V4045	V4045	L3805	L3805	S3625	E3565		A3385	G3265	G3265
E4050	E4050	L3805	L3805	K3626	S3566		E3386	N3266	N3266
A4056	A4056	L3805	L3805	Q3627	P3567		A3387	P3267	P3267
F4061	F4061	L3805	L3805	R3628	S3568		E3388	R3268	R3268
D4063	D4063	L3805	L3805	R3629	L3569		E3389	H3269	H3269
F4065	F4065	L3805	L3805	A3631	R3570		G3390	I3270	I3270
L3942	L3942	L3805	L3805	K3731	K3571		E3391	E3271	E3271
I3943	I3943	L3805	L3805	V3632	Q3572		L3392	I3272	I3272
L4066	L4066	L3805	L3805	V3633	K3573		L3393	T3273	T3273
K4067	K4067	L3805	L3805	E3635	A3574		V3394	L3274	L3274
L4068	L4068	L3805	L3805	L3575	P3519		R3395	P3275	P3275
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T3966	T3966	L3805	L3805	T3639	L3579		S3399	S3279	S3279
I3969	I3969	L3805	L3805	P3640	P3580		V3400	V3340	V3340
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		L3805	L3805	N3643	A3526		R3403	Q3343	Q3343
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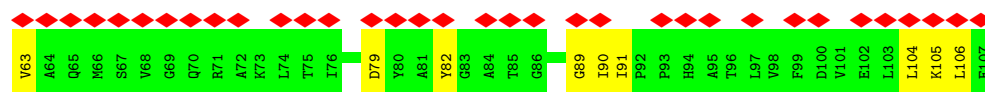


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

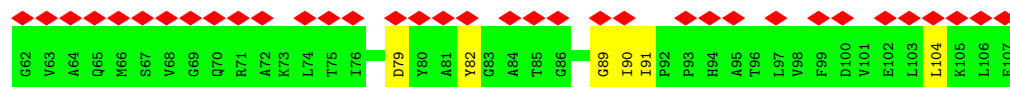
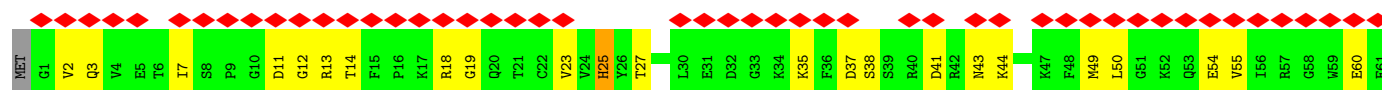
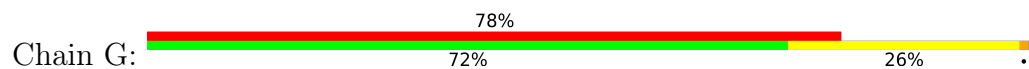


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

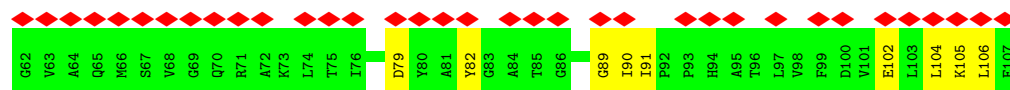
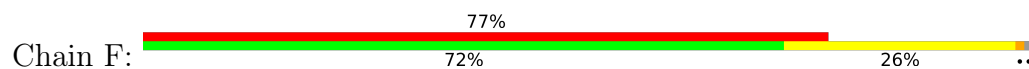




- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	33308	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.428	Depositor
Minimum map value	-0.219	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.017	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	423.68, 423.68, 423.68	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.8275, 0.8275, 0.8275	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A1BD5, ZN, CA, ATP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.17	0/35977	0.43	3/48726 (0.0%)
1	B	0.18	0/35977	0.43	3/48726 (0.0%)
1	C	0.18	0/35977	0.43	3/48726 (0.0%)
1	D	0.18	0/35977	0.43	3/48726 (0.0%)
2	E	0.17	0/850	0.41	0/1146
2	F	0.17	0/850	0.42	0/1146
2	G	0.17	0/850	0.42	0/1146
2	H	0.15	0/850	0.40	0/1146
All	All	0.18	0/147308	0.43	12/199488 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
All	All	0	4

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	227	MET	CA-CB-CG	5.94	125.98	114.10
1	A	227	MET	CA-CB-CG	5.93	125.95	114.10
1	B	227	MET	CA-CB-CG	5.92	125.93	114.10
1	D	227	MET	CA-CB-CG	5.90	125.90	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	226	HIS	CA-C-N	5.43	131.91	121.54
1	A	226	HIS	C-N-CA	5.43	131.91	121.54
1	B	226	HIS	CA-C-N	5.43	131.91	121.54
1	B	226	HIS	C-N-CA	5.43	131.91	121.54
1	C	226	HIS	CA-C-N	5.41	131.88	121.54
1	C	226	HIS	C-N-CA	5.41	131.88	121.54
1	D	226	HIS	CA-C-N	5.41	131.87	121.54
1	D	226	HIS	C-N-CA	5.41	131.87	121.54

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	2244	ARG	Sidechain
1	B	2244	ARG	Sidechain
1	C	2244	ARG	Sidechain
1	D	2244	ARG	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34794	1162	0
1	B	35150	0	34792	1148	0
1	C	35150	0	34792	1134	0
1	D	35150	0	34792	1145	0
2	E	831	0	831	26	0
2	F	831	0	831	23	0
2	G	831	0	831	27	0
2	H	831	0	831	31	0
3	A	31	0	12	1	0
3	B	31	0	12	1	0
3	C	31	0	12	1	0
3	D	31	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	15	0	0	0	0
6	B	15	0	0	0	0
6	C	15	0	0	0	0
6	D	15	0	0	0	0
7	A	1	0	0	0	0
7	B	1	0	0	0	0
7	C	1	0	0	0	0
7	D	1	0	0	0	0
All	All	144120	0	142542	4552	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 16.

All (4552) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3477:LYS:HE3	1:B:1141:ARG:CZ	1.20	1.58
1:A:3477:LYS:CE	1:B:1141:ARG:NH1	1.69	1.54
1:A:3477:LYS:CE	1:B:1141:ARG:HD3	1.33	1.53
1:A:1141:ARG:NH1	1:D:3477:LYS:CE	1.70	1.43
1:A:3477:LYS:CE	1:B:1141:ARG:CZ	1.93	1.38
1:A:3477:LYS:CE	1:B:1141:ARG:CD	1.93	1.32
1:A:3477:LYS:NZ	1:B:1141:ARG:CG	1.95	1.26
1:A:3477:LYS:HZ1	1:B:1141:ARG:CG	1.46	1.26
1:A:3477:LYS:CE	1:B:1141:ARG:NE	2.00	1.24
1:A:3477:LYS:HZ1	1:B:1141:ARG:NE	1.37	1.20
1:A:1141:ARG:NH1	1:D:3477:LYS:HE3	0.90	1.16
1:A:3477:LYS:HE3	1:B:1141:ARG:NH1	0.77	1.08
1:A:1141:ARG:NH1	1:D:3477:LYS:CD	2.24	0.99
2:H:90:ILE:HD12	1:D:1687:SER:OG	1.63	0.98
2:G:90:ILE:HD12	1:C:1687:SER:OG	1.64	0.98
2:F:90:ILE:HG22	2:F:91:ILE:HD12	1.46	0.96
1:D:76:ARG:HH12	1:C:3936:TYR:N	1.64	0.96
1:A:1141:ARG:NH1	1:D:3477:LYS:HG3	1.81	0.95
2:E:90:ILE:HG22	2:E:91:ILE:HD12	1.47	0.94
1:A:3477:LYS:NZ	1:B:1141:ARG:HD2	1.28	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2226:PRO:HB2	1:A:2267:MET:HE3	1.50	0.94
1:B:2226:PRO:HB2	1:B:2267:MET:HE3	1.50	0.93
1:D:2226:PRO:HB2	1:D:2267:MET:HE3	1.50	0.93
1:B:3936:TYR:N	1:C:76:ARG:HH12	1.68	0.92
1:C:2226:PRO:HB2	1:C:2267:MET:HE3	1.50	0.92
1:B:150:MET:HB2	1:B:169:LEU:HD11	1.54	0.89
1:A:150:MET:HB2	1:A:169:LEU:HD11	1.54	0.88
1:D:150:MET:HB2	1:D:169:LEU:HD11	1.54	0.88
1:C:2639:MET:HE3	1:C:2640:PRO:HD3	1.57	0.87
1:D:2639:MET:HE3	1:D:2640:PRO:HD3	1.57	0.87
1:C:150:MET:HB2	1:C:169:LEU:HD11	1.54	0.86
1:B:2902:HIS:HB3	1:B:2905:LEU:HD22	1.58	0.86
1:C:384:MET:H	1:C:384:MET:HE2	1.41	0.86
1:D:2902:HIS:HB3	1:D:2905:LEU:HD22	1.58	0.86
1:B:2639:MET:HE3	1:B:2640:PRO:HD3	1.57	0.86
1:B:384:MET:HE2	1:B:384:MET:H	1.41	0.85
1:A:2902:HIS:HB3	1:A:2905:LEU:HD22	1.58	0.85
1:A:2639:MET:HE3	1:A:2640:PRO:HD3	1.57	0.85
2:H:90:ILE:HD11	1:D:1684:ALA:HA	1.57	0.85
1:C:2902:HIS:HB3	1:C:2905:LEU:HD22	1.58	0.85
1:D:195:PHE:CE1	1:C:2358:ILE:HD12	2.11	0.84
1:D:384:MET:H	1:D:384:MET:HE2	1.41	0.84
1:A:384:MET:H	1:A:384:MET:HE2	1.41	0.84
2:G:90:ILE:HD11	1:C:1684:ALA:HA	1.57	0.84
1:B:2244:ARG:HH22	1:B:3860:ASN:HA	1.43	0.83
1:B:3400:VAL:HG23	1:B:3403:ARG:HH21	1.44	0.83
1:A:1141:ARG:NH1	1:D:3477:LYS:CG	2.40	0.83
1:D:2244:ARG:HH22	1:D:3860:ASN:HA	1.43	0.83
1:A:3477:LYS:HZ2	1:B:1141:ARG:CG	1.78	0.82
1:C:2244:ARG:HH22	1:C:3860:ASN:HA	1.43	0.82
1:D:3400:VAL:HG23	1:D:3403:ARG:HH21	1.44	0.82
1:A:2244:ARG:HH22	1:A:3860:ASN:HA	1.43	0.81
1:A:3400:VAL:HG23	1:A:3403:ARG:HH21	1.44	0.81
1:C:3400:VAL:HG23	1:C:3403:ARG:HH21	1.44	0.81
1:B:2358:ILE:HD12	1:C:195:PHE:CE1	2.14	0.81
1:A:3477:LYS:HE2	1:B:1141:ARG:CZ	2.09	0.81
1:A:3477:LYS:CD	1:B:1141:ARG:NH1	2.43	0.81
1:D:3132:THR:HG23	1:D:3136:LEU:HB3	1.63	0.80
1:B:3132:THR:HG23	1:B:3136:LEU:HB3	1.63	0.80
1:A:3132:THR:HG23	1:A:3136:LEU:HB3	1.63	0.80
1:C:3132:THR:HG23	1:C:3136:LEU:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4678:ALA:HB1	1:B:4720:VAL:HG21	1.64	0.79
1:A:76:ARG:HH12	1:D:3936:TYR:N	1.80	0.78
1:D:4678:ALA:HB1	1:D:4720:VAL:HG21	1.64	0.78
1:C:4678:ALA:HB1	1:C:4720:VAL:HG21	1.64	0.78
1:A:2667:THR:HG21	1:A:2672:LEU:HG	1.66	0.77
1:B:2667:THR:HG21	1:B:2672:LEU:HG	1.66	0.77
1:C:2667:THR:HG21	1:C:2672:LEU:HG	1.66	0.77
1:D:2667:THR:HG21	1:D:2672:LEU:HG	1.66	0.77
1:A:4678:ALA:HB1	1:A:4720:VAL:HG21	1.64	0.77
1:A:3936:TYR:N	1:B:76:ARG:HH12	1.82	0.77
1:B:127:MET:HE3	1:B:127:MET:H	1.50	0.76
1:B:790:ARG:HD3	1:B:1627:ALA:HB2	1.67	0.76
1:A:127:MET:H	1:A:127:MET:HE3	1.50	0.76
1:A:790:ARG:HD3	1:A:1627:ALA:HB2	1.68	0.76
1:D:2667:THR:HG22	1:D:2669:GLU:H	1.51	0.76
1:D:2519:LEU:HA	1:D:2522:LEU:HD12	1.68	0.76
1:A:2001:PRO:HB3	1:A:3864:THR:HB	1.68	0.75
1:D:3107:VAL:HG11	1:D:3171:SER:HB2	1.68	0.75
1:C:790:ARG:HD3	1:C:1627:ALA:HB2	1.67	0.75
1:D:195:PHE:CZ	1:C:2358:ILE:HD12	2.21	0.75
1:A:2519:LEU:HA	1:A:2522:LEU:HD12	1.68	0.75
1:A:3107:VAL:HG11	1:A:3171:SER:HB2	1.69	0.75
1:D:2001:PRO:HB3	1:D:3864:THR:HB	1.68	0.75
1:C:2667:THR:HG22	1:C:2669:GLU:H	1.51	0.75
1:A:4843:LEU:HD23	1:A:4928:LEU:HD21	1.69	0.75
1:D:4843:LEU:HD23	1:D:4928:LEU:HD21	1.69	0.75
1:C:2005:GLN:HA	1:C:2008:MET:HE2	1.69	0.75
1:B:2358:ILE:HD12	1:C:195:PHE:CZ	2.22	0.75
1:D:790:ARG:HD3	1:D:1627:ALA:HB2	1.67	0.75
1:A:929:LEU:HA	1:A:932:LEU:HD12	1.68	0.74
1:B:275:ARG:NH2	1:B:334:MET:O	2.20	0.74
1:D:127:MET:H	1:D:127:MET:HE3	1.50	0.74
1:D:929:LEU:HA	1:D:932:LEU:HD12	1.68	0.74
1:C:127:MET:HE3	1:C:127:MET:H	1.50	0.74
1:A:2869:ARG:HH21	1:A:2870[B]:GLU:HG3	1.53	0.74
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.21	0.74
1:C:275:ARG:NH2	1:C:334:MET:O	2.20	0.74
1:C:929:LEU:HA	1:C:932:LEU:HD12	1.68	0.74
1:B:3107:VAL:HG11	1:B:3171:SER:HB2	1.69	0.74
1:C:2001:PRO:HB3	1:C:3864:THR:HB	1.68	0.74
1:D:2869:ARG:HH21	1:D:2870[B]:GLU:HG3	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2519:LEU:HA	1:C:2522:LEU:HD12	1.68	0.74
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.68	0.74
1:D:2005:GLN:HA	1:D:2008:MET:HE2	1.69	0.74
1:A:2667:THR:HG22	1:A:2669:GLU:H	1.51	0.74
1:D:275:ARG:NH2	1:D:334:MET:O	2.20	0.74
1:C:3107:VAL:HG11	1:C:3171:SER:HB2	1.69	0.74
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.21	0.74
1:D:2654:TYR:HB2	1:D:2661:TRP:HB2	1.70	0.74
1:B:575:LEU:HD12	1:B:609:CYS:HB3	1.69	0.73
1:B:2667:THR:HG22	1:B:2669:GLU:H	1.51	0.73
1:C:575:LEU:HD12	1:C:609:CYS:HB3	1.69	0.73
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.21	0.73
1:A:275:ARG:NH2	1:A:334:MET:O	2.20	0.73
1:B:2001:PRO:HB3	1:B:3864:THR:HB	1.68	0.73
1:B:4843:LEU:HD23	1:B:4928:LEU:HD21	1.69	0.73
1:A:2654:TYR:HB2	1:A:2661:TRP:HB2	1.70	0.73
1:D:575:LEU:HD12	1:D:609:CYS:HB3	1.69	0.73
1:B:2005:GLN:HA	1:B:2008:MET:HE2	1.69	0.73
1:B:2869:ARG:HH21	1:B:2870[B]:GLU:HG3	1.53	0.73
1:D:76:ARG:HH22	1:C:3936:TYR:HA	1.54	0.73
1:C:2869:ARG:HH21	1:C:2870[B]:GLU:HG3	1.53	0.73
1:A:575:LEU:HD12	1:A:609:CYS:HB3	1.69	0.73
1:A:3477:LYS:NZ	1:B:1141:ARG:NE	1.93	0.73
1:A:3675:ASP:OD1	1:A:3769:ARG:NH1	2.21	0.73
1:B:826:ILE:HG22	1:B:827:LYS:HG2	1.70	0.73
1:A:826:ILE:HG22	1:A:827:LYS:HG2	1.70	0.73
1:A:1141:ARG:HH12	1:D:3477:LYS:HG3	1.52	0.73
1:B:892:THR:HA	1:B:961:MET:HB2	1.71	0.73
1:C:826:ILE:HG22	1:C:827:LYS:HG2	1.70	0.73
1:D:892:THR:HA	1:D:961:MET:HB2	1.71	0.73
1:C:2654:TYR:HB2	1:C:2661:TRP:HB2	1.70	0.73
1:C:4843:LEU:HD23	1:C:4928:LEU:HD21	1.69	0.73
1:A:892:THR:HA	1:A:961:MET:HB2	1.71	0.72
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.21	0.72
1:D:826:ILE:HG22	1:D:827:LYS:HG2	1.70	0.72
1:A:2005:GLN:HA	1:A:2008:MET:HE2	1.69	0.72
2:H:90:ILE:HG22	2:H:91:ILE:HD12	1.71	0.72
1:C:4094:GLN:HG2	1:C:4108:ILE:HG21	1.72	0.72
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.72	0.72
1:B:2980:VAL:HB	1:B:2985:ARG:HA	1.72	0.72
1:B:2654:TYR:HB2	1:B:2661:TRP:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:929:LEU:HA	1:B:932:LEU:HD12	1.68	0.72
1:C:2980:VAL:HB	1:C:2985:ARG:HA	1.72	0.72
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.72	0.72
1:B:4094:GLN:HG2	1:B:4108:ILE:HG21	1.72	0.72
1:D:4094:GLN:HG2	1:D:4108:ILE:HG21	1.72	0.72
1:C:3110:LEU:HD12	1:C:3182:TYR:HB2	1.72	0.72
1:A:1753:LYS:HZ1	1:A:1759:ARG:HG2	1.55	0.72
1:A:4094:GLN:HG2	1:A:4108:ILE:HG21	1.72	0.72
2:G:90:ILE:HG22	2:G:91:ILE:HD12	1.71	0.72
1:D:213:TYR:CD2	1:D:337:PRO:HG2	2.25	0.72
1:A:213:TYR:CD2	1:A:337:PRO:HG2	2.25	0.72
1:D:1990:GLU:HA	1:D:1993:ARG:HH21	1.54	0.72
1:B:213:TYR:CD2	1:B:337:PRO:HG2	2.25	0.71
1:C:892:THR:HA	1:C:961:MET:HB2	1.71	0.71
1:C:1990:GLU:HA	1:C:1993:ARG:HH21	1.54	0.71
1:B:3675:ASP:OD1	1:B:3769:ARG:NH1	2.21	0.71
1:C:3675:ASP:OD1	1:C:3769:ARG:NH1	2.21	0.71
1:A:615:ARG:NH1	1:A:618:GLN:OE1	2.23	0.71
1:A:1990:GLU:HA	1:A:1993:ARG:HH21	1.55	0.71
1:A:3384:LYS:HD2	1:A:3386:GLU:H	1.55	0.71
1:B:1990:GLU:HA	1:B:1993:ARG:HH21	1.54	0.71
1:B:3384:LYS:HD2	1:B:3386:GLU:H	1.55	0.71
1:C:213:TYR:CD2	1:C:337:PRO:HG2	2.25	0.71
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.73	0.71
1:A:1810:LYS:O	1:A:1814:MET:HG2	1.91	0.71
1:B:3110:LEU:HD12	1:B:3182:TYR:HB2	1.72	0.71
1:D:3110:LEU:HD12	1:D:3182:TYR:HB2	1.72	0.71
1:B:615:ARG:NH1	1:B:618:GLN:OE1	2.23	0.71
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.72	0.71
1:A:2980:VAL:HB	1:A:2985:ARG:HA	1.72	0.71
1:D:615:ARG:NH1	1:D:618:GLN:OE1	2.24	0.71
1:D:1810:LYS:O	1:D:1814:MET:HG2	1.91	0.71
1:D:2599:GLN:O	1:D:2603:ILE:HD12	1.91	0.71
1:A:3477:LYS:HZ1	1:B:1141:ARG:HD2	1.06	0.71
1:D:3675:ASP:OD1	1:D:3769:ARG:NH1	2.21	0.71
1:D:2980:VAL:HB	1:D:2985:ARG:HA	1.72	0.70
1:B:1810:LYS:O	1:B:1814:MET:HG2	1.91	0.70
1:C:1810:LYS:O	1:C:1814:MET:HG2	1.91	0.70
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.72	0.70
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.73	0.70
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	1.74	0.70
1:B:2599:GLN:O	1:B:2603:ILE:HD12	1.91	0.70
1:C:3384:LYS:HD2	1:C:3386:GLU:H	1.55	0.70
1:A:4761:PRO:HB2	1:A:4766:THR:HG21	1.74	0.70
2:G:90:ILE:CD1	1:C:1687:SER:OG	2.39	0.70
1:A:3110:LEU:HD12	1:A:3182:TYR:HB2	1.72	0.70
1:D:3384:LYS:HD2	1:D:3386:GLU:H	1.55	0.70
1:D:3758:MET:HA	1:D:3758:MET:HE2	1.73	0.70
1:C:615:ARG:NH1	1:C:618:GLN:OE1	2.23	0.70
1:C:2599:GLN:O	1:C:2603:ILE:HD12	1.91	0.70
1:A:3758:MET:HE2	1:A:3758:MET:HA	1.73	0.70
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	1.74	0.70
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	1.74	0.70
1:A:2599:GLN:O	1:A:2603:ILE:HD12	1.91	0.70
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.74	0.70
2:G:3:GLN:OE1	2:G:3:GLN:N	2.25	0.69
1:C:2970:SER:HA	1:C:2973:PHE:CE1	2.27	0.69
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.73	0.69
1:B:3510:ILE:HD12	1:B:3511:VAL:H	1.57	0.69
1:D:2970:SER:HA	1:D:2973:PHE:CE1	2.27	0.69
1:B:517:GLU:N	1:B:517:GLU:OE2	2.25	0.69
1:C:3510:ILE:HD12	1:C:3511:VAL:H	1.57	0.69
1:B:3936:TYR:HA	1:C:76:ARG:HH22	1.57	0.69
1:C:517:GLU:N	1:C:517:GLU:OE2	2.25	0.69
2:H:90:ILE:CD1	1:D:1687:SER:OG	2.38	0.69
2:G:90:ILE:HD11	1:C:1684:ALA:CA	2.23	0.69
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	1.74	0.69
1:D:4761:PRO:HB2	1:D:4766:THR:HG21	1.74	0.69
2:H:3:GLN:OE1	2:H:3:GLN:N	2.26	0.69
1:B:3758:MET:HE2	1:B:3758:MET:HA	1.73	0.69
1:D:3510:ILE:HD12	1:D:3511:VAL:H	1.57	0.69
1:A:2970:SER:HA	1:A:2973:PHE:CE1	2.27	0.69
1:B:2970:SER:HA	1:B:2973:PHE:CE1	2.27	0.69
1:C:4761:PRO:HB2	1:C:4766:THR:HG21	1.74	0.69
1:A:3510:ILE:HD12	1:A:3511:VAL:H	1.57	0.69
1:A:3937:TYR:OH	1:A:3944:GLU:OE1	2.11	0.69
1:D:921:ASN:HA	1:D:924:MET:HG3	1.75	0.69
1:C:1753:LYS:HD3	1:C:1753:LYS:H	1.58	0.68
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.59	0.68
1:C:3758:MET:HE2	1:C:3758:MET:HA	1.73	0.68
1:D:4158:PRO:HA	1:D:4161:ARG:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:265:LEU:HD21	1:C:279:PRO:HB2	1.76	0.68
1:C:3213:TYR:CE2	1:C:3302:PRO:HD2	2.28	0.68
1:B:2219:GLU:HG2	1:B:2263:ILE:HG21	1.76	0.68
1:D:4230:LYS:HG2	1:D:4231:MET:HE2	1.75	0.68
1:C:2219:GLU:HG2	1:C:2263:ILE:HG21	1.76	0.68
1:A:2002:PRO:HB2	1:A:3652:MET:HE1	1.76	0.68
1:B:265:LEU:HD21	1:B:279:PRO:HB2	1.76	0.68
1:B:1753:LYS:HZ1	1:B:1759:ARG:HG2	1.59	0.68
1:B:3213:TYR:CE2	1:B:3302:PRO:HD2	2.28	0.68
1:D:2219:GLU:HG2	1:D:2263:ILE:HG21	1.76	0.68
1:B:921:ASN:HA	1:B:924:MET:HG3	1.75	0.68
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.59	0.68
1:A:265:LEU:HD21	1:A:279:PRO:HB2	1.76	0.68
1:A:4158:PRO:HA	1:A:4161:ARG:HD2	1.75	0.68
1:D:2662:ALA:O	1:D:2663:ASN:ND2	2.27	0.68
1:C:3937:TYR:OH	1:C:3944:GLU:OE1	2.11	0.68
1:A:195:PHE:CE1	1:D:2358:ILE:HD12	2.29	0.68
1:A:2886:TRP:HH2	1:A:2904:LEU:HB3	1.59	0.68
1:B:873:LYS:NZ	1:B:873:LYS:O	2.27	0.68
1:D:517:GLU:OE2	1:D:517:GLU:N	2.25	0.68
1:D:873:LYS:O	1:D:873:LYS:NZ	2.27	0.68
1:C:67:PHE:HB3	1:C:109:LEU:HD22	1.76	0.68
1:A:1208:VAL:CG2	1:D:3575:LEU:HD11	2.24	0.68
1:A:1753:LYS:H	1:A:1753:LYS:HD3	1.58	0.68
1:A:2219:GLU:HG2	1:A:2263:ILE:HG21	1.76	0.68
1:B:4230:LYS:HG2	1:B:4231:MET:HE2	1.75	0.68
1:D:3213:TYR:CE2	1:D:3302:PRO:HD2	2.28	0.68
1:C:4230:LYS:HG2	1:C:4231:MET:HE2	1.75	0.68
1:A:2358:ILE:HD12	1:B:195:PHE:CE1	2.29	0.68
1:D:265:LEU:HD21	1:D:279:PRO:HB2	1.76	0.68
1:A:3510:ILE:HD12	1:A:3511:VAL:N	2.10	0.67
1:B:61:ASP:OD2	1:B:402:ARG:NH2	2.27	0.67
1:D:3510:ILE:HD12	1:D:3511:VAL:N	2.10	0.67
1:C:2662:ALA:O	1:C:2663:ASN:ND2	2.27	0.67
1:C:3354:LEU:HB3	1:C:3415:TYR:CE2	2.29	0.67
1:A:176:SER:OG	1:A:178:ARG:NH1	2.27	0.67
1:A:517:GLU:N	1:A:517:GLU:OE2	2.25	0.67
1:A:921:ASN:HA	1:A:924:MET:HG3	1.75	0.67
1:A:972:LEU:HD22	1:A:1044:ARG:HB3	1.76	0.67
1:D:972:LEU:HD22	1:D:1044:ARG:HB3	1.76	0.67
1:D:4917:ASP:OD2	1:C:4888:TYR:OH	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1477:GLY:HA2	1:C:1483:VAL:HA	1.76	0.67
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.59	0.67
1:C:4158:PRO:HA	1:C:4161:ARG:HD2	1.75	0.67
2:H:90:ILE:HD11	1:D:1684:ALA:CA	2.23	0.67
2:F:31:GLU:N	2:F:31:GLU:OE2	2.26	0.67
1:B:2886:TRP:HH2	1:B:2904:LEU:HB3	1.59	0.67
1:B:3510:ILE:HD12	1:B:3511:VAL:N	2.10	0.67
1:C:3510:ILE:HD12	1:C:3511:VAL:N	2.10	0.67
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.59	0.67
1:A:3354:LEU:HB3	1:A:3415:TYR:CE2	2.29	0.67
2:F:3:GLN:OE1	2:F:3:GLN:N	2.26	0.67
1:B:3937:TYR:OH	1:B:3944:GLU:OE1	2.11	0.67
1:D:176:SER:OG	1:D:178:ARG:NH1	2.27	0.67
1:C:873:LYS:O	1:C:873:LYS:NZ	2.27	0.67
1:B:1290:ARG:NH2	1:B:1644:GLU:OE1	2.28	0.67
1:B:1753:LYS:H	1:B:1753:LYS:HD3	1.58	0.67
1:D:2914:LYS:H	1:D:2914:LYS:HD2	1.60	0.67
1:C:2914:LYS:H	1:C:2914:LYS:HD2	1.60	0.67
1:A:2662:ALA:O	1:A:2663:ASN:ND2	2.27	0.67
1:A:3213:TYR:CE2	1:A:3302:PRO:HD2	2.28	0.67
1:B:2914:LYS:H	1:B:2914:LYS:HD2	1.60	0.67
1:B:4888:TYR:OH	1:C:4917:ASP:OD2	2.12	0.67
1:D:1454:THR:OG1	1:D:1456:ASP:OD2	2.13	0.67
1:D:1753:LYS:H	1:D:1753:LYS:HD3	1.58	0.67
1:B:4158:PRO:HA	1:B:4161:ARG:HD2	1.75	0.67
1:B:4721:LYS:HB3	1:B:4743:MET:HE3	1.76	0.67
1:D:2002:PRO:HB2	1:D:3652:MET:HE1	1.76	0.67
1:D:2661:TRP:HB3	1:D:2664:PHE:HB2	1.77	0.67
1:D:2886:TRP:HH2	1:D:2904:LEU:HB3	1.59	0.67
1:D:67:PHE:HB3	1:D:109:LEU:HD22	1.76	0.67
1:C:972:LEU:HD22	1:C:1044:ARG:HB3	1.76	0.67
1:A:61:ASP:OD2	1:A:402:ARG:NH2	2.27	0.67
1:A:1208:VAL:HG22	1:D:3575:LEU:HD11	1.77	0.67
2:E:3:GLN:OE1	2:E:3:GLN:N	2.28	0.67
1:B:2002:PRO:HB2	1:B:3652:MET:HE1	1.76	0.67
1:B:4729:GLY:O	1:B:4733:GLY:N	2.28	0.67
1:C:176:SER:OG	1:C:178:ARG:NH1	2.27	0.67
1:C:2002:PRO:HB2	1:C:3652:MET:HE1	1.76	0.67
1:C:4721:LYS:HB3	1:C:4743:MET:HE3	1.76	0.67
1:A:3477:LYS:NZ	1:B:1141:ARG:CD	0.76	0.67
1:B:2661:TRP:HB3	1:B:2664:PHE:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:61:ASP:OD2	1:D:402:ARG:NH2	2.27	0.67
1:D:3354:LEU:HB3	1:D:3415:TYR:CE2	2.29	0.67
1:C:921:ASN:HA	1:C:924:MET:HG3	1.75	0.67
1:C:1290:ARG:NH2	1:C:1644:GLU:OE1	2.28	0.67
1:A:3477:LYS:HZ1	1:B:1141:ARG:CD	0.15	0.66
1:A:4230:LYS:HG2	1:A:4231:MET:HE2	1.75	0.66
2:F:27:THR:HG23	2:F:38:SER:HB2	1.77	0.66
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.76	0.66
1:B:2662:ALA:O	1:B:2663:ASN:ND2	2.27	0.66
1:A:1477:GLY:HA2	1:A:1483:VAL:HA	1.76	0.66
1:B:972:LEU:HB3	1:B:1044:ARG:HG2	1.76	0.66
1:A:873:LYS:O	1:A:873:LYS:NZ	2.27	0.66
1:B:4835:LYS:H	1:B:4835:LYS:HD2	1.61	0.66
1:D:4729:GLY:O	1:D:4733:GLY:N	2.28	0.66
1:C:4180:ARG:HD2	1:C:4981:GLU:HB2	1.76	0.66
1:A:67:PHE:HB3	1:A:109:LEU:HD22	1.76	0.66
1:A:870:ILE:HD11	1:A:947:GLU:HG2	1.78	0.66
1:A:1454:THR:OG1	1:A:1456:ASP:OD2	2.13	0.66
1:B:1454:THR:OG1	1:B:1456:ASP:OD2	2.13	0.66
1:B:3354:LEU:HB3	1:B:3415:TYR:CE2	2.29	0.66
1:B:4180:ARG:HD2	1:B:4981:GLU:HB2	1.76	0.66
1:D:3937:TYR:OH	1:D:3944:GLU:OE1	2.11	0.66
1:A:4729:GLY:O	1:A:4733:GLY:N	2.28	0.66
1:B:67:PHE:HB3	1:B:109:LEU:HD22	1.76	0.66
1:D:870:ILE:HD11	1:D:947:GLU:HG2	1.78	0.66
1:D:972:LEU:HB3	1:D:1044:ARG:HG2	1.76	0.66
1:D:1753:LYS:HZ1	1:D:1759:ARG:HG2	1.60	0.66
1:D:4180:ARG:HD2	1:D:4981:GLU:HB2	1.77	0.66
1:A:332:GLU:OE1	1:A:332:GLU:N	2.25	0.66
1:A:4835:LYS:H	1:A:4835:LYS:HD2	1.61	0.66
1:B:953:THR:HB	1:B:969:PRO:HG2	1.78	0.66
1:D:3318:ASN:OD1	1:D:3321:ARG:NH2	2.29	0.66
1:A:4721:LYS:HB3	1:A:4743:MET:HE3	1.76	0.66
1:B:3214:ASN:HB2	1:B:3304:CYS:SG	2.36	0.66
1:B:3318:ASN:OD1	1:B:3321:ARG:NH2	2.29	0.66
1:D:2927:LEU:HA	1:D:2930:LEU:HD12	1.77	0.66
1:D:4835:LYS:HD2	1:D:4835:LYS:H	1.61	0.66
1:C:61:ASP:OD2	1:C:402:ARG:NH2	2.27	0.66
1:C:668:VAL:HA	1:C:789:VAL:HG23	1.78	0.66
1:C:2661:TRP:HB3	1:C:2664:PHE:HB2	1.77	0.66
1:C:2886:TRP:HH2	1:C:2904:LEU:HB3	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2927:LEU:HA	1:C:2930:LEU:HD12	1.77	0.66
1:A:953:THR:HB	1:A:969:PRO:HG2	1.78	0.66
1:A:2661:TRP:HB3	1:A:2664:PHE:HB2	1.77	0.66
1:A:3995:VAL:O	1:A:3999:MET:HB2	1.96	0.66
1:B:870:ILE:HD11	1:B:947:GLU:HG2	1.78	0.66
1:D:1290:ARG:NH2	1:D:1644:GLU:OE1	2.28	0.66
1:D:2233:CYS:O	1:D:2234:ARG:C	2.39	0.66
1:C:1454:THR:OG1	1:C:1456:ASP:OD2	2.13	0.66
1:A:102:LEU:HB3	1:A:105:HIS:CD2	2.31	0.66
1:A:1560:ASN:N	1:A:1560:ASN:OD1	2.29	0.66
1:A:2358:ILE:HD12	1:B:195:PHE:CZ	2.31	0.66
1:A:3477:LYS:CD	1:B:1141:ARG:HD3	2.24	0.66
1:B:972:LEU:HD22	1:B:1044:ARG:HB3	1.76	0.66
1:D:668:VAL:HA	1:D:789:VAL:HG23	1.78	0.66
1:D:1477:GLY:HA2	1:D:1483:VAL:HA	1.76	0.66
1:D:4721:LYS:HB3	1:D:4743:MET:HE3	1.76	0.66
1:C:3214:ASN:HB2	1:C:3304:CYS:SG	2.36	0.66
1:C:3318:ASN:OD1	1:C:3321:ARG:NH2	2.29	0.66
1:A:668:VAL:HA	1:A:789:VAL:HG23	1.78	0.65
1:D:3154:ASP:HA	1:D:3202:PRO:HB3	1.78	0.65
1:D:3214:ASN:HB2	1:D:3304:CYS:SG	2.36	0.65
1:C:4729:GLY:O	1:C:4733:GLY:N	2.28	0.65
1:B:4836:GLN:N	1:B:4836:GLN:OE1	2.30	0.65
1:D:953:THR:HB	1:D:969:PRO:HG2	1.78	0.65
1:A:2914:LYS:H	1:A:2914:LYS:HD2	1.60	0.65
1:A:3214:ASN:HB2	1:A:3304:CYS:SG	2.36	0.65
1:B:102:LEU:HB3	1:B:105:HIS:CD2	2.31	0.65
1:B:668:VAL:HA	1:B:789:VAL:HG23	1.78	0.65
1:D:332:GLU:OE1	1:D:332:GLU:N	2.25	0.65
1:C:953:THR:HB	1:C:969:PRO:HG2	1.78	0.65
1:C:4836:GLN:OE1	1:C:4836:GLN:N	2.29	0.65
1:A:2927:LEU:HA	1:A:2930:LEU:HD12	1.77	0.65
1:C:1560:ASN:N	1:C:1560:ASN:OD1	2.29	0.65
1:C:3154:ASP:HA	1:C:3202:PRO:HB3	1.78	0.65
1:C:3995:VAL:O	1:C:3999:MET:HB2	1.96	0.65
1:B:2927:LEU:HA	1:B:2930:LEU:HD12	1.77	0.65
1:D:2667:THR:HG23	1:D:2671:GLU:HG3	1.79	0.65
1:C:2794:TYR:HA	1:C:2797:PHE:HB2	1.79	0.65
1:A:2261:SER:HB2	1:A:2273:LEU:HB2	1.78	0.65
1:B:2199:ARG:NH1	1:B:2246:ASN:OD1	2.30	0.65
1:B:2794:TYR:HA	1:B:2797:PHE:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3995:VAL:O	1:D:3999:MET:HB2	1.96	0.65
1:C:972:LEU:HB3	1:C:1044:ARG:HG2	1.76	0.65
1:A:2667:THR:HG23	1:A:2671:GLU:HG3	1.79	0.65
1:A:4180:ARG:HD2	1:A:4981:GLU:HB2	1.76	0.65
1:C:870:ILE:HD11	1:C:947:GLU:HG2	1.78	0.65
1:A:1573:MET:HE3	1:A:1574:PRO:HD2	1.79	0.65
1:A:2265:LEU:HD21	1:A:2330:ARG:HB2	1.78	0.65
1:A:3154:ASP:HA	1:A:3202:PRO:HB3	1.78	0.65
1:A:3477:LYS:HZ3	1:B:1141:ARG:CD	1.30	0.65
1:D:2261:SER:HB2	1:D:2273:LEU:HB2	1.78	0.65
1:C:3106:MET:HE1	1:C:3132:THR:HB	1.79	0.65
1:A:972:LEU:HB3	1:A:1044:ARG:HG2	1.76	0.65
1:A:2738:ARG:HD3	1:A:2738:ARG:H	1.62	0.65
1:A:3318:ASN:OD1	1:A:3321:ARG:NH2	2.29	0.65
1:A:4092:ASP:HA	1:A:4095:LYS:HE3	1.79	0.65
2:G:27:THR:HG23	2:G:38:SER:HB2	1.79	0.65
1:B:2738:ARG:H	1:B:2738:ARG:HD3	1.62	0.65
1:D:102:LEU:HB3	1:D:105:HIS:CD2	2.31	0.65
1:D:1560:ASN:N	1:D:1560:ASN:OD1	2.29	0.65
1:A:4848:VAL:HG11	1:A:4887:MET:HG2	1.79	0.65
1:B:176:SER:OG	1:B:178:ARG:NH1	2.27	0.65
1:B:943:ASP:HB3	1:B:945:LYS:HE3	1.79	0.65
1:B:1573:MET:HE3	1:B:1574:PRO:HD2	1.79	0.65
1:B:2165:LEU:HD11	1:B:2177:LEU:HD23	1.79	0.65
1:B:2261:SER:HB2	1:B:2273:LEU:HB2	1.78	0.65
1:B:3154:ASP:HA	1:B:3202:PRO:HB3	1.78	0.65
1:B:3995:VAL:O	1:B:3999:MET:HB2	1.96	0.65
1:B:4848:VAL:HG11	1:B:4887:MET:HG2	1.79	0.65
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.30	0.65
1:C:102:LEU:HB3	1:C:105:HIS:CD2	2.31	0.65
1:C:1753:LYS:HZ1	1:C:1759:ARG:HG2	1.62	0.65
1:C:2265:LEU:HD21	1:C:2330:ARG:HB2	1.78	0.65
1:D:2199:ARG:NH1	1:D:2246:ASN:OD1	2.30	0.64
1:C:2233:CYS:O	1:C:2234:ARG:C	2.39	0.64
1:D:891:TRP:HE1	1:D:902:ARG:HH21	1.45	0.64
1:D:1573:MET:HE3	1:D:1574:PRO:HD2	1.79	0.64
1:D:2794:TYR:HA	1:D:2797:PHE:HB2	1.79	0.64
1:A:891:TRP:HE1	1:A:902:ARG:HH21	1.45	0.64
1:A:2794:TYR:HA	1:A:2797:PHE:HB2	1.79	0.64
1:B:1560:ASN:OD1	1:B:1560:ASN:N	2.29	0.64
1:B:2751:LEU:HD13	1:B:2823:ILE:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2627:VAL:HA	1:A:2678:LEU:HD13	1.80	0.64
1:B:3213:TYR:HE2	1:B:3302:PRO:HD2	1.63	0.64
1:D:4836:GLN:OE1	1:D:4836:GLN:N	2.30	0.64
1:C:4835:LYS:H	1:C:4835:LYS:HD2	1.61	0.64
1:B:2265:LEU:HD21	1:B:2330:ARG:HB2	1.78	0.64
1:B:2792:ARG:NH2	1:B:2801:ASP:OD2	2.31	0.64
1:D:195:PHE:CD1	1:C:2358:ILE:HB	2.32	0.64
1:D:4092:ASP:HA	1:D:4095:LYS:HE3	1.79	0.64
1:C:943:ASP:HB3	1:C:945:LYS:HE3	1.79	0.64
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.30	0.64
1:A:2199:ARG:NH1	1:A:2246:ASN:OD1	2.30	0.64
1:A:4836:GLN:OE1	1:A:4836:GLN:N	2.30	0.64
2:E:27:THR:HG23	2:E:38:SER:HB2	1.79	0.64
1:B:2627:VAL:HA	1:B:2678:LEU:HD13	1.80	0.64
1:C:2738:ARG:HD3	1:C:2738:ARG:H	1.62	0.64
1:D:2265:LEU:HD21	1:D:2330:ARG:HB2	1.78	0.64
1:D:2792:ARG:NH2	1:D:2801:ASP:OD2	2.31	0.64
1:C:2261:SER:HB2	1:C:2273:LEU:HB2	1.78	0.64
1:C:2751:LEU:HD13	1:C:2823:ILE:HG21	1.79	0.64
1:C:3213:TYR:HE2	1:C:3302:PRO:HD2	1.63	0.64
1:A:399:GLN:O	1:A:403:MET:HG3	1.98	0.64
2:H:18:ARG:HH11	2:H:18:ARG:HG3	1.63	0.64
2:H:27:THR:HG23	2:H:38:SER:HB2	1.79	0.64
1:B:399:GLN:O	1:B:403:MET:HG3	1.98	0.64
1:B:891:TRP:HE1	1:B:902:ARG:HH21	1.45	0.64
1:D:2627:VAL:HA	1:D:2678:LEU:HD13	1.79	0.64
1:D:2738:ARG:H	1:D:2738:ARG:HD3	1.62	0.64
1:A:1290:ARG:NH2	1:A:1644:GLU:OE1	2.28	0.64
1:A:2165:LEU:HD11	1:A:2177:LEU:HD23	1.79	0.64
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.30	0.64
1:D:3106:MET:HE1	1:D:3132:THR:HB	1.79	0.64
1:C:399:GLN:O	1:C:403:MET:HG3	1.98	0.64
1:C:1573:MET:HE3	1:C:1574:PRO:HD2	1.79	0.64
1:A:244:LEU:HD22	1:A:375:LYS:HZ1	1.64	0.63
1:A:2751:LEU:HD13	1:A:2823:ILE:HG21	1.79	0.63
2:F:23:VAL:HG12	2:F:104:LEU:HB2	1.79	0.63
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.31	0.63
1:B:3106:MET:HE1	1:B:3132:THR:HB	1.79	0.63
1:D:399:GLN:O	1:D:403:MET:HG3	1.98	0.63
1:C:244:LEU:HD22	1:C:375:LYS:HZ1	1.63	0.63
1:A:2233:CYS:O	1:A:2234:ARG:C	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3213:TYR:HE2	1:A:3302:PRO:HD2	1.63	0.63
1:B:2233:CYS:O	1:B:2234:ARG:C	2.39	0.63
1:B:2667:THR:HG23	1:B:2671:GLU:HG3	1.79	0.63
1:B:2869:ARG:NH2	1:B:2870[A]:GLU:OE1	2.32	0.63
1:D:2869:ARG:NH2	1:D:2870[A]:GLU:OE1	2.32	0.63
1:C:2667:THR:HG23	1:C:2671:GLU:HG3	1.79	0.63
1:C:1252:HIS:O	1:C:1275:ARG:NH1	2.32	0.63
1:C:4092:ASP:HA	1:C:4095:LYS:HE3	1.79	0.63
1:C:4848:VAL:HG11	1:C:4887:MET:HG2	1.79	0.63
1:A:3106:MET:HE1	1:A:3132:THR:HB	1.79	0.63
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.32	0.63
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.32	0.63
1:C:2165:LEU:HD11	1:C:2177:LEU:HD23	1.80	0.63
1:C:2792:ARG:NH2	1:C:2801:ASP:OD2	2.31	0.63
1:C:2869:ARG:NH2	1:C:2870[A]:GLU:OE1	2.32	0.63
1:A:1079:LYS:NZ	1:A:1107:PRO:O	2.32	0.63
1:A:2792:ARG:NH2	1:A:2801:ASP:OD2	2.31	0.63
1:B:332:GLU:OE1	1:B:332:GLU:N	2.25	0.63
1:D:943:ASP:HB3	1:D:945:LYS:HE3	1.79	0.63
1:D:2751:LEU:HD13	1:D:2823:ILE:HG21	1.79	0.63
1:C:2627:VAL:HA	1:C:2678:LEU:HD13	1.79	0.63
1:A:1252:HIS:O	1:A:1275:ARG:NH1	2.32	0.63
1:A:3477:LYS:HZ3	1:B:1141:ARG:HD2	1.05	0.63
1:B:2994:GLU:OE1	1:B:2994:GLU:N	2.29	0.63
1:C:919:ASN:HA	1:C:922:LEU:HG	1.80	0.63
1:A:1435:TYR:HB2	1:A:1575:LEU:HD22	1.81	0.63
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.30	0.63
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.34	0.63
1:D:1435:TYR:HB2	1:D:1575:LEU:HD22	1.81	0.63
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.31	0.63
2:F:90:ILE:HD11	1:B:1684:ALA:HA	1.81	0.63
1:B:4092:ASP:HA	1:B:4095:LYS:HE3	1.79	0.63
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.32	0.63
1:D:1252:HIS:O	1:D:1275:ARG:NH1	2.32	0.63
1:D:2165:LEU:HD11	1:D:2177:LEU:HD23	1.79	0.63
1:C:3731:LYS:HA	1:C:3734:HIS:CD2	2.34	0.63
1:A:2869:ARG:NH2	1:A:2870[A]:GLU:OE1	2.32	0.62
1:A:3731:LYS:HA	1:A:3734:HIS:CD2	2.34	0.62
1:B:355:LEU:HB3	1:B:378:LEU:HB3	1.81	0.62
1:B:3731:LYS:HA	1:B:3734:HIS:CD2	2.34	0.62
1:B:3980:LEU:HD13	1:B:3985:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.32	0.62
1:D:4848:VAL:HG11	1:D:4887:MET:HG2	1.79	0.62
1:D:919:ASN:HA	1:D:922:LEU:HG	1.80	0.62
1:C:891:TRP:HE1	1:C:902:ARG:HH21	1.45	0.62
1:A:195:PHE:CZ	1:D:2358:ILE:HD12	2.34	0.62
1:A:3535:LEU:HD13	1:A:3552:PHE:HE1	1.64	0.62
1:B:919:ASN:HA	1:B:922:LEU:HG	1.80	0.62
1:D:3731:LYS:HA	1:D:3734:HIS:CD2	2.34	0.62
1:C:1079:LYS:NZ	1:C:1107:PRO:O	2.32	0.62
1:A:919:ASN:HA	1:A:922:LEU:HG	1.80	0.62
1:B:5033:GLU:N	1:B:5033:GLU:OE2	2.33	0.62
1:D:102:LEU:HD11	1:C:3984:ARG:HH22	1.65	0.62
1:C:2199:ARG:NH1	1:C:2246:ASN:OD1	2.30	0.62
1:C:2247:GLN:OE1	1:C:2283:ASN:ND2	2.33	0.62
1:C:3980:LEU:HD13	1:C:3985:LEU:HD22	1.81	0.62
1:A:355:LEU:HB3	1:A:378:LEU:HB3	1.81	0.62
1:A:2284:ASN:HB2	1:A:3856:LEU:HD11	1.82	0.62
1:B:162:LYS:O	1:B:164:ARG:NH1	2.33	0.62
1:B:1252:HIS:O	1:B:1275:ARG:NH1	2.32	0.62
1:B:1435:TYR:HB2	1:B:1575:LEU:HD22	1.81	0.62
1:D:2284:ASN:HB2	1:D:3856:LEU:HD11	1.82	0.62
1:D:3535:LEU:HD13	1:D:3552:PHE:HE1	1.64	0.62
1:C:355:LEU:HB3	1:C:378:LEU:HB3	1.81	0.62
1:C:1435:TYR:HB2	1:C:1575:LEU:HD22	1.81	0.62
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.31	0.62
1:A:3477:LYS:HE2	1:B:1141:ARG:NE	2.10	0.62
1:D:5033:GLU:N	1:D:5033:GLU:OE2	2.32	0.62
1:A:162:LYS:O	1:A:164:ARG:NH1	2.33	0.62
1:A:5033:GLU:OE2	1:A:5033:GLU:N	2.33	0.62
1:D:355:LEU:HB3	1:D:378:LEU:HB3	1.81	0.62
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.31	0.62
1:A:2247:GLN:OE1	1:A:2283:ASN:ND2	2.33	0.62
1:B:2247:GLN:OE1	1:B:2283:ASN:ND2	2.32	0.62
1:B:2358:ILE:HB	1:C:195:PHE:CD1	2.34	0.62
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.34	0.62
1:D:244:LEU:HD22	1:D:375:LYS:HZ1	1.64	0.62
1:D:937:CYS:HB2	1:D:1056:PRO:HD3	1.82	0.62
1:D:2189:LYS:HA	1:D:2192:TYR:HD2	1.65	0.62
1:C:1125:ASN:ND2	1:C:1128:ARG:HG2	2.15	0.62
1:C:2209:GLU:HA	1:C:2212:VAL:HG22	1.81	0.62
1:A:943:ASP:HB3	1:A:945:LYS:HE3	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2189:LYS:HA	1:A:2192:TYR:HD2	1.65	0.62
1:A:2994:GLU:OE1	1:A:2994:GLU:N	2.29	0.62
2:H:31:GLU:N	2:H:31:GLU:OE2	2.33	0.62
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.32	0.62
1:D:162:LYS:O	1:D:164:ARG:NH1	2.33	0.62
1:D:1079:LYS:NZ	1:D:1107:PRO:O	2.32	0.62
1:D:2209:GLU:HA	1:D:2212:VAL:HG22	1.81	0.62
1:D:2247:GLN:OE1	1:D:2283:ASN:ND2	2.33	0.62
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.34	0.62
1:C:162:LYS:O	1:C:164:ARG:NH1	2.33	0.62
1:C:4098:ASP:O	1:C:4101:LYS:NZ	2.33	0.62
1:A:1684:ALA:HA	2:E:90:ILE:HD11	1.81	0.61
1:A:3980:LEU:HD13	1:A:3985:LEU:HD22	1.81	0.61
1:B:2250:MET:HA	1:B:2250:MET:HE3	1.82	0.61
1:B:3535:LEU:HD13	1:B:3552:PHE:HE1	1.64	0.61
1:C:2250:MET:HA	1:C:2250:MET:HE3	1.82	0.61
1:C:2284:ASN:HB2	1:C:3856:LEU:HD11	1.82	0.61
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.34	0.61
1:D:3329:ILE:O	1:D:3403:ARG:NH2	2.34	0.61
1:C:530:ILE:HG22	1:C:536:ASN:HB3	1.83	0.61
1:A:937:CYS:HB2	1:A:1056:PRO:HD3	1.82	0.61
1:D:3980:LEU:HD13	1:D:3985:LEU:HD22	1.81	0.61
1:C:545:ASP:OD2	1:C:545:ASP:N	2.33	0.61
1:B:530:ILE:HG22	1:B:536:ASN:HB3	1.83	0.61
1:B:2779:GLU:HG3	1:B:2792:ARG:HG2	1.83	0.61
1:D:1639:LEU:HB2	1:D:1650:ILE:HD12	1.82	0.61
1:D:2250:MET:HA	1:D:2250:MET:HE3	1.82	0.61
1:C:1639:LEU:HB2	1:C:1650:ILE:HD12	1.82	0.61
1:C:5033:GLU:N	1:C:5033:GLU:OE2	2.32	0.61
1:A:2250:MET:HA	1:A:2250:MET:HE3	1.82	0.61
1:B:1125:ASN:ND2	1:B:1128:ARG:HG2	2.15	0.61
1:B:2284:ASN:HB2	1:B:3856:LEU:HD11	1.82	0.61
1:D:4765:LEU:O	1:D:4768:LEU:N	2.34	0.61
1:C:3087:ILE:HD12	1:C:3088:VAL:H	1.66	0.61
1:A:2209:GLU:HA	1:A:2212:VAL:HG22	1.81	0.61
1:A:4098:ASP:O	1:A:4101:LYS:NZ	2.33	0.61
1:B:2209:GLU:HA	1:B:2212:VAL:HG22	1.81	0.61
1:B:3087:ILE:HD12	1:B:3088:VAL:H	1.66	0.61
1:C:2189:LYS:HA	1:C:2192:TYR:HD2	1.65	0.61
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.34	0.61
1:D:1125:ASN:ND2	1:D:1128:ARG:HG2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1208:VAL:CG2	1:C:3575:LEU:HD11	2.30	0.61
1:D:3213:TYR:HE2	1:D:3302:PRO:HD2	1.63	0.61
1:C:3535:LEU:HD13	1:C:3552:PHE:HE1	1.64	0.61
1:A:1577:ALA:HB1	1:A:1584:ARG:HA	1.83	0.61
1:B:2189:LYS:HA	1:B:2192:TYR:HD2	1.65	0.61
1:D:3087:ILE:HD12	1:D:3088:VAL:H	1.66	0.61
1:D:3340:VAL:HA	1:D:3343:GLN:HE21	1.66	0.61
1:C:1866:ILE:HG12	1:C:1939:MET:HE1	1.83	0.61
1:A:530:ILE:HG22	1:A:536:ASN:HB3	1.83	0.61
1:A:3087:ILE:HD12	1:A:3088:VAL:H	1.66	0.61
1:B:953:THR:N	1:B:969:PRO:O	2.34	0.61
1:D:111:HIS:HE1	1:D:113:HIS:HB3	1.66	0.61
1:D:1866:ILE:HG12	1:D:1939:MET:HE1	1.83	0.61
1:C:2858:GLN:HB2	1:C:2859:PRO:HD3	1.83	0.61
1:A:111:HIS:HE1	1:A:113:HIS:HB3	1.66	0.61
1:A:1125:ASN:ND2	1:A:1128:ARG:HG2	2.15	0.61
1:A:3329:ILE:O	1:A:3403:ARG:NH2	2.34	0.61
1:D:226:HIS:HA	1:D:389:PHE:HE1	1.66	0.61
1:D:526:LEU:O	1:D:530:ILE:HG13	2.01	0.61
1:D:1174:GLY:HA2	1:C:3467:MET:HE1	1.83	0.61
1:D:3731:LYS:HD3	1:D:3734:HIS:HE2	1.66	0.61
1:B:226:HIS:HA	1:B:389:PHE:HE1	1.66	0.60
1:B:545:ASP:N	1:B:545:ASP:OD2	2.33	0.60
1:D:1577:ALA:HB1	1:D:1584:ARG:HA	1.83	0.60
1:C:3247:ASP:OD2	1:C:3248:ARG:N	2.34	0.60
1:A:3247:ASP:OD2	1:A:3248:ARG:N	2.34	0.60
1:A:3477:LYS:HG3	1:B:1141:ARG:NH1	2.16	0.60
1:A:4930:ALA:HB1	1:D:4937:ILE:HD11	1.82	0.60
1:B:244:LEU:HD22	1:B:375:LYS:HZ1	1.65	0.60
1:B:4765:LEU:O	1:B:4768:LEU:N	2.34	0.60
1:D:953:THR:N	1:D:969:PRO:O	2.34	0.60
1:C:3329:ILE:O	1:C:3403:ARG:NH2	2.34	0.60
1:A:226:HIS:HA	1:A:389:PHE:HE1	1.66	0.60
1:A:835:ARG:NH2	1:A:1210:SER:O	2.34	0.60
1:A:3114:LYS:HE2	1:A:3125:VAL:HG11	1.83	0.60
1:B:1128:ARG:CZ	1:B:1128:ARG:HA	2.31	0.60
1:B:3586:ALA:O	1:B:3591:LYS:HD2	2.02	0.60
1:C:1128:ARG:HA	1:C:1128:ARG:CZ	2.31	0.60
2:F:54:GLU:HG2	2:F:55:VAL:HG13	1.82	0.60
1:D:1208:VAL:HG22	1:C:3575:LEU:HD11	1.83	0.60
1:C:127:MET:H	1:C:127:MET:CE	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:835:ARG:NH2	1:C:1210:SER:O	2.35	0.60
1:C:3731:LYS:HD3	1:C:3734:HIS:HE2	1.66	0.60
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.02	0.60
1:C:4765:LEU:O	1:C:4768:LEU:N	2.34	0.60
1:B:3114:LYS:HE2	1:B:3125:VAL:HG11	1.83	0.60
1:D:3247:ASP:OD2	1:D:3248:ARG:N	2.34	0.60
1:A:1128:ARG:CZ	1:A:1128:ARG:HA	2.31	0.60
1:A:2858:GLN:HB2	1:A:2859:PRO:HD3	1.83	0.60
1:A:3586:ALA:O	1:A:3591:LYS:HD2	2.02	0.60
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.02	0.60
1:B:111:HIS:HE1	1:B:113:HIS:HB3	1.66	0.60
1:B:127:MET:H	1:B:127:MET:CE	2.15	0.60
1:B:937:CYS:HB2	1:B:1056:PRO:HD3	1.82	0.60
1:B:3329:ILE:O	1:B:3403:ARG:NH2	2.34	0.60
1:C:1152:MET:HG2	1:C:1223:PHE:CD2	2.36	0.60
1:C:3112:LEU:HB2	1:C:3180:ASN:HD21	1.66	0.60
1:C:3586:ALA:O	1:C:3591:LYS:HD2	2.02	0.60
1:A:953:THR:N	1:A:969:PRO:O	2.34	0.60
1:A:1639:LEU:HB2	1:A:1650:ILE:HD12	1.82	0.60
1:A:4765:LEU:O	1:A:4768:LEU:N	2.34	0.60
2:E:18:ARG:HD2	2:E:51:GLY:HA3	1.83	0.60
2:H:54:GLU:HG2	2:H:55:VAL:HG13	1.82	0.60
1:D:127:MET:H	1:D:127:MET:CE	2.15	0.60
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.83	0.60
1:D:3552:PHE:O	1:D:3556:ASN:ND2	2.35	0.60
1:C:3552:PHE:O	1:C:3556:ASN:ND2	2.35	0.60
1:B:835:ARG:NH2	1:B:1210:SER:O	2.34	0.60
1:D:530:ILE:HG22	1:D:536:ASN:HB3	1.83	0.60
1:D:3112:LEU:HB2	1:D:3180:ASN:HD21	1.66	0.60
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.83	0.60
1:C:937:CYS:HB2	1:C:1056:PRO:HD3	1.82	0.60
1:C:3340:VAL:HA	1:C:3343:GLN:HE21	1.66	0.60
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.20	0.60
1:A:2779:GLU:HG3	1:A:2792:ARG:HG2	1.83	0.60
1:A:3112:LEU:HB2	1:A:3180:ASN:HD21	1.66	0.60
1:A:3688:GLU:OE1	1:A:3688:GLU:N	2.35	0.60
1:B:913:LEU:O	1:B:918:ARG:NH2	2.33	0.60
1:B:1577:ALA:HB1	1:B:1584:ARG:HA	1.83	0.60
1:B:1639:LEU:HB2	1:B:1650:ILE:HD12	1.82	0.60
1:D:835:ARG:NH2	1:D:1210:SER:O	2.35	0.60
1:D:2779:GLU:HG3	1:D:2792:ARG:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3114:LYS:HE2	1:D:3125:VAL:HG11	1.83	0.60
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.02	0.60
1:C:111:HIS:HE1	1:C:113:HIS:HB3	1.66	0.60
1:A:1152:MET:HG2	1:A:1223:PHE:CD2	2.36	0.60
1:A:3340:VAL:HA	1:A:3343:GLN:HE21	1.66	0.60
1:A:3731:LYS:HD3	1:A:3734:HIS:HE2	1.66	0.60
1:C:243:ARG:HH21	1:C:302:VAL:HA	1.67	0.60
1:A:526:LEU:O	1:A:530:ILE:HG13	2.01	0.59
1:A:1637:MET:HE3	1:A:1693:GLN:HG2	1.84	0.59
1:A:1866:ILE:HG12	1:A:1939:MET:HE1	1.83	0.59
1:B:526:LEU:O	1:B:530:ILE:HG13	2.01	0.59
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.83	0.59
1:B:3247:ASP:OD2	1:B:3248:ARG:N	2.34	0.59
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.20	0.59
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.34	0.59
1:D:3688:GLU:OE1	1:D:3688:GLU:N	2.35	0.59
1:C:526:LEU:O	1:C:530:ILE:HG13	2.01	0.59
1:C:1637:MET:HE3	1:C:1693:GLN:HG2	1.84	0.59
1:C:1753:LYS:HZ1	1:C:1759:ARG:H	1.49	0.59
1:A:2627:VAL:HG22	1:A:2678:LEU:HB2	1.85	0.59
1:A:3655:GLU:HA	1:A:3658:LYS:HZ3	1.67	0.59
1:D:243:ARG:HH21	1:D:302:VAL:HA	1.67	0.59
1:D:1152:MET:HG2	1:D:1223:PHE:CD2	2.36	0.59
1:D:1637:MET:HE3	1:D:1693:GLN:HG2	1.84	0.59
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.20	0.59
1:A:3235:SER:HB3	1:A:3238:GLU:HB2	1.84	0.59
1:B:635:THR:OG1	1:B:1693:GLN:OE1	2.20	0.59
1:B:1866:ILE:HG12	1:B:1939:MET:HE1	1.83	0.59
1:B:3235:SER:HB3	1:B:3238:GLU:HB2	1.84	0.59
1:B:3984:ARG:HH22	1:C:102:LEU:HD11	1.65	0.59
1:B:4150:LEU:HB3	1:B:4160:LEU:HD21	1.85	0.59
1:D:884:LEU:O	1:D:887:ILE:HG13	2.02	0.59
1:D:2285:GLU:OE1	1:D:2285:GLU:N	2.26	0.59
1:D:3235:SER:HB3	1:D:3238:GLU:HB2	1.84	0.59
1:C:226:HIS:HA	1:C:389:PHE:HE1	1.66	0.59
1:C:3235:SER:HB3	1:C:3238:GLU:HB2	1.84	0.59
1:C:3688:GLU:OE1	1:C:3688:GLU:N	2.35	0.59
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.83	0.59
1:A:884:LEU:O	1:A:887:ILE:HG13	2.02	0.59
1:A:913:LEU:O	1:A:918:ARG:NH2	2.33	0.59
1:A:1581:LEU:HD12	1:A:1584:ARG:HE	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2540:THR:HG23	1:A:2541:PHE:CD1	2.38	0.59
1:B:2627:VAL:HG22	1:B:2678:LEU:HB2	1.85	0.59
1:B:3731:LYS:HD3	1:B:3734:HIS:HE2	1.66	0.59
1:D:1128:ARG:CZ	1:D:1128:ARG:HA	2.31	0.59
1:C:332:GLU:OE1	1:C:332:GLU:N	2.25	0.59
1:C:884:LEU:O	1:C:887:ILE:HG13	2.02	0.59
1:C:2779:GLU:HG3	1:C:2792:ARG:HG2	1.83	0.59
1:A:3552:PHE:O	1:A:3556:ASN:ND2	2.35	0.59
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.34	0.59
2:F:105:LYS:NZ	2:F:106:LEU:O	2.36	0.59
1:B:243:ARG:HH21	1:B:302:VAL:HA	1.67	0.59
1:B:1152:MET:HG2	1:B:1223:PHE:CD2	2.36	0.59
1:B:1637:MET:HE3	1:B:1693:GLN:HG2	1.84	0.59
1:D:2627:VAL:HG22	1:D:2678:LEU:HB2	1.85	0.59
1:C:1577:ALA:HB1	1:C:1584:ARG:HA	1.83	0.59
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.85	0.59
1:C:4150:LEU:HB3	1:C:4160:LEU:HD21	1.85	0.59
1:A:3477:LYS:HZ2	1:B:1141:ARG:HD3	0.80	0.59
1:A:4150:LEU:HB3	1:A:4160:LEU:HD21	1.85	0.59
1:B:2021:CYS:O	1:B:2028:ARG:NH2	2.36	0.59
1:B:3688:GLU:N	1:B:3688:GLU:OE1	2.35	0.59
1:B:4005:GLN:HA	1:B:4114:CYS:HA	1.85	0.59
1:D:2609:ALA:HA	1:D:2612[B]:ARG:HH11	1.68	0.59
1:C:3114:LYS:HE2	1:C:3125:VAL:HG11	1.83	0.59
1:C:3611:HIS:ND1	1:C:3611:HIS:O	2.34	0.59
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.85	0.59
1:B:910:PHE:HE2	1:B:968:ALA:HB3	1.68	0.59
1:B:3112:LEU:HB2	1:B:3180:ASN:HD21	1.66	0.59
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.85	0.59
1:D:4098:ASP:O	1:D:4101:LYS:NZ	2.33	0.59
1:D:4150:LEU:HB3	1:D:4160:LEU:HD21	1.85	0.59
1:C:953:THR:N	1:C:969:PRO:O	2.34	0.59
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.83	0.59
1:B:1581:LEU:HD12	1:B:1584:ARG:HE	1.68	0.59
1:D:1581:LEU:HD12	1:D:1584:ARG:HE	1.68	0.59
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.02	0.59
1:D:131:LEU:CD1	1:D:195:PHE:H	2.16	0.59
1:D:2985:ARG:HG3	1:D:2985:ARG:HH11	1.68	0.59
1:D:3586:ALA:O	1:D:3591:LYS:HD2	2.02	0.59
1:C:910:PHE:HE2	1:C:968:ALA:HB3	1.68	0.59
1:C:2021:CYS:O	1:C:2028:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4005:GLN:HA	1:C:4114:CYS:HA	1.85	0.59
1:A:127:MET:H	1:A:127:MET:CE	2.15	0.58
1:A:910:PHE:HE2	1:A:968:ALA:HB3	1.68	0.58
1:A:2871:LEU:HD13	1:A:2927:LEU:HD12	1.85	0.58
1:B:2871:LEU:HD13	1:B:2927:LEU:HD12	1.85	0.58
1:D:2751:LEU:O	1:D:2755:ILE:HG13	2.03	0.58
1:D:2871:LEU:HD13	1:D:2927:LEU:HD12	1.85	0.58
1:D:4731:ILE:HD12	1:D:4732:PHE:CD2	2.38	0.58
1:C:2285:GLU:OE1	1:C:2285:GLU:N	2.26	0.58
1:A:2463:LEU:HA	1:A:2466:LEU:HD12	1.85	0.58
1:B:2540:THR:HG23	1:B:2541:PHE:CD1	2.38	0.58
1:D:2244:ARG:NH2	1:D:3859:VAL:O	2.36	0.58
1:D:2463:LEU:HA	1:D:2466:LEU:HD12	1.85	0.58
1:D:2540:THR:HG23	1:D:2541:PHE:CD1	2.38	0.58
1:C:2540:THR:HG23	1:C:2541:PHE:CD1	2.38	0.58
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.20	0.58
1:A:4926:VAL:HG13	1:D:4933:GLN:HG3	1.84	0.58
1:B:884:LEU:O	1:B:887:ILE:HG13	2.02	0.58
1:B:3510:ILE:HD12	1:B:3511:VAL:HG12	1.85	0.58
1:D:910:PHE:HE2	1:D:968:ALA:HB3	1.68	0.58
1:C:2627:VAL:HG22	1:C:2678:LEU:HB2	1.85	0.58
1:A:76:ARG:HH22	1:D:3936:TYR:HA	1.68	0.58
1:A:2609:ALA:HA	1:A:2612[B]:ARG:HH11	1.68	0.58
1:D:913:LEU:O	1:D:918:ARG:NH2	2.33	0.58
1:D:3412:LEU:HD11	1:D:3434:LEU:HD21	1.85	0.58
1:C:1581:LEU:HD12	1:C:1584:ARG:HE	1.68	0.58
1:C:2871:LEU:HD13	1:C:2927:LEU:HD12	1.85	0.58
1:C:4731:ILE:HD12	1:C:4732:PHE:CD2	2.38	0.58
1:A:2021:CYS:O	1:A:2028:ARG:NH2	2.36	0.58
1:A:2244:ARG:NH2	1:A:3859:VAL:O	2.36	0.58
1:A:2751:LEU:O	1:A:2755:ILE:HG13	2.03	0.58
1:A:2985:ARG:HH11	1:A:2985:ARG:HG3	1.68	0.58
1:A:4876:CYS:HA	1:A:4882:CYS:HB2	1.85	0.58
2:G:82:TYR:HD1	1:C:1786:LEU:HG	1.68	0.58
1:B:2751:LEU:O	1:B:2755:ILE:HG13	2.03	0.58
1:B:3340:VAL:HA	1:B:3343:GLN:HE21	1.66	0.58
1:B:3412:LEU:HD11	1:B:3434:LEU:HD21	1.85	0.58
1:D:2858:GLN:HB2	1:D:2859:PRO:HD3	1.83	0.58
1:C:2244:ARG:NH2	1:C:3859:VAL:O	2.36	0.58
1:A:2165:LEU:HD12	1:A:2178:MET:HE3	1.86	0.58
1:A:2206:THR:HA	1:A:2209:GLU:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:245:VAL:HG23	1:B:376:ALA:HB3	1.84	0.58
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.85	0.58
1:D:3510:ILE:HD12	1:D:3511:VAL:HG12	1.85	0.58
1:C:131:LEU:CD1	1:C:195:PHE:H	2.16	0.58
1:C:2985:ARG:HH11	1:C:2985:ARG:HG3	1.68	0.58
1:A:76:ARG:O	1:A:80:GLU:HG2	2.04	0.58
1:A:243:ARG:HH21	1:A:302:VAL:HA	1.67	0.58
1:A:3510:ILE:HD12	1:A:3511:VAL:HG12	1.85	0.58
1:B:131:LEU:CD1	1:B:195:PHE:H	2.16	0.58
1:B:2985:ARG:HH11	1:B:2985:ARG:HG3	1.68	0.58
1:B:3093:ARG:HD2	1:B:3160:ASP:OD2	2.04	0.58
1:D:545:ASP:OD2	1:D:545:ASP:N	2.33	0.58
1:D:2021:CYS:O	1:D:2028:ARG:NH2	2.36	0.58
1:D:2206:THR:HA	1:D:2209:GLU:OE1	2.04	0.58
1:C:245:VAL:HG23	1:C:376:ALA:HB3	1.84	0.58
1:A:3412:LEU:HD11	1:A:3434:LEU:HD21	1.85	0.58
1:A:4005:GLN:HA	1:A:4114:CYS:HA	1.85	0.58
1:B:76:ARG:O	1:B:80:GLU:HG2	2.04	0.58
1:B:3552:PHE:O	1:B:3556:ASN:ND2	2.35	0.58
1:D:3093:ARG:HD2	1:D:3160:ASP:OD2	2.03	0.58
1:C:1619:ARG:HA	1:C:1626:TRP:HA	1.86	0.58
1:C:2206:THR:HA	1:C:2209:GLU:OE1	2.04	0.58
1:C:2751:LEU:O	1:C:2755:ILE:HG13	2.03	0.58
1:A:2178:MET:HB3	1:A:2228:MET:HE1	1.86	0.58
1:A:3202:PRO:HA	1:A:3283:ARG:NH2	2.19	0.58
1:D:2165:LEU:HD12	1:D:2178:MET:HE3	1.86	0.58
1:D:2178:MET:HB3	1:D:2228:MET:HE1	1.86	0.58
1:C:1930:LYS:O	1:C:1930:LYS:HD2	2.04	0.58
1:C:2609:ALA:HA	1:C:2612[B]:ARG:HH11	1.68	0.58
1:B:2463:LEU:HA	1:B:2466:LEU:HD12	1.85	0.58
1:B:2609:ALA:HA	1:B:2612[B]:ARG:HH11	1.68	0.58
1:B:3106:MET:HG3	1:B:3110:LEU:CD2	2.34	0.58
1:B:3588:ASP:O	1:B:3592:ILE:HG13	2.04	0.58
1:C:3356:SER:HG	1:C:3357:HIS:HD1	1.50	0.58
1:C:3655:GLU:HA	1:C:3658:LYS:HZ3	1.69	0.58
1:C:4161:ARG:HA	1:C:4164:LEU:HD12	1.86	0.58
1:A:3384:LYS:HD2	1:A:3386:GLU:N	2.19	0.57
2:G:54:GLU:HG2	2:G:55:VAL:HG13	1.86	0.57
1:B:654:GLU:N	1:B:654:GLU:OE2	2.37	0.57
1:B:2244:ARG:NH2	1:B:3859:VAL:O	2.36	0.57
1:B:4161:ARG:HA	1:B:4164:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:ASP:OD2	1:D:239:ASP:N	2.37	0.57
1:D:3106:MET:HG3	1:D:3110:LEU:CD2	2.34	0.57
1:C:892:THR:HG22	1:C:961:MET:HA	1.86	0.57
1:C:2165:LEU:HD12	1:C:2178:MET:HE3	1.86	0.57
1:C:3510:ILE:HD12	1:C:3511:VAL:HG12	1.85	0.57
1:A:1619:ARG:HA	1:A:1626:TRP:HA	1.86	0.57
1:B:3202:PRO:HA	1:B:3283:ARG:NH2	2.19	0.57
1:D:463:GLU:OE2	1:D:463:GLU:N	2.29	0.57
1:D:654:GLU:N	1:D:654:GLU:OE2	2.37	0.57
1:D:1930:LYS:HD2	1:D:1930:LYS:O	2.04	0.57
1:D:3588:ASP:O	1:D:3592:ILE:HG13	2.04	0.57
1:D:3655:GLU:HA	1:D:3658:LYS:HZ3	1.69	0.57
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.86	0.57
1:C:76:ARG:O	1:C:80:GLU:HG2	2.04	0.57
1:C:2096:GLU:N	1:C:2096:GLU:OE2	2.38	0.57
1:C:2463:LEU:HA	1:C:2466:LEU:HD12	1.85	0.57
1:C:3106:MET:HG3	1:C:3110:LEU:CD2	2.34	0.57
1:A:131:LEU:CD1	1:A:195:PHE:H	2.16	0.57
1:A:654:GLU:N	1:A:654:GLU:OE2	2.37	0.57
1:A:1930:LYS:HD2	1:A:1930:LYS:O	2.04	0.57
1:A:3848:GLU:O	1:A:3852:LYS:HG2	2.05	0.57
1:A:4731:ILE:HD12	1:A:4732:PHE:CD2	2.38	0.57
1:A:4917:ASP:OD2	1:D:4888:TYR:OH	2.13	0.57
2:E:105:LYS:NZ	2:E:106:LEU:O	2.38	0.57
1:B:2244:ARG:HA	1:B:2247:GLN:HB2	1.87	0.57
1:B:3384:LYS:HD2	1:B:3386:GLU:N	2.19	0.57
1:A:245:VAL:HG23	1:A:376:ALA:HB3	1.84	0.57
1:A:3106:MET:HG3	1:A:3110:LEU:CD2	2.34	0.57
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.86	0.57
1:A:4980:LEU:HB3	1:A:4981:GLU:OE1	2.05	0.57
1:B:1753:LYS:HZ1	1:B:1759:ARG:H	1.52	0.57
1:B:3575:LEU:HD11	1:C:1208:VAL:CG2	2.34	0.57
1:B:3575:LEU:HD11	1:C:1208:VAL:HG22	1.86	0.57
1:B:3848:GLU:O	1:B:3852:LYS:HG2	2.05	0.57
1:D:892:THR:HG22	1:D:961:MET:HA	1.86	0.57
1:D:2096:GLU:N	1:D:2096:GLU:OE2	2.38	0.57
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.87	0.57
1:C:3588:ASP:O	1:C:3592:ILE:HG13	2.04	0.57
1:A:2011:HIS:ND1	1:A:2011:HIS:O	2.38	0.57
1:B:892:THR:HG22	1:B:961:MET:HA	1.86	0.57
1:B:2096:GLU:OE2	1:B:2096:GLU:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.87	0.57
1:B:2863:SER:O	1:B:2928:LYS:NZ	2.38	0.57
1:B:4731:ILE:HD12	1:B:4732:PHE:CD2	2.38	0.57
1:D:76:ARG:O	1:D:80:GLU:HG2	2.04	0.57
1:D:3104:GLU:O	1:D:3107:VAL:HG22	2.05	0.57
1:D:4005:GLN:HA	1:D:4114:CYS:HA	1.85	0.57
1:D:4876:CYS:HA	1:D:4882:CYS:HB2	1.85	0.57
1:C:2178:MET:HB3	1:C:2228:MET:HE1	1.86	0.57
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.87	0.57
1:A:3093:ARG:HD2	1:A:3160:ASP:OD2	2.04	0.57
2:F:82:TYR:HD1	1:B:1786:LEU:HG	1.69	0.57
1:B:1619:ARG:HA	1:B:1626:TRP:HA	1.85	0.57
1:B:1930:LYS:HD2	1:B:1930:LYS:O	2.04	0.57
1:B:2165:LEU:HD12	1:B:2178:MET:HE3	1.86	0.57
1:B:2178:MET:HB3	1:B:2228:MET:HE1	1.86	0.57
1:B:3547:GLU:OE1	1:B:3547:GLU:N	2.38	0.57
1:D:245:VAL:HG23	1:D:376:ALA:HB3	1.84	0.57
1:D:3547:GLU:OE1	1:D:3547:GLU:N	2.38	0.57
1:A:2863:SER:O	1:A:2928:LYS:NZ	2.38	0.57
1:A:3547:GLU:OE1	1:A:3547:GLU:N	2.38	0.57
1:A:4161:ARG:HA	1:A:4164:LEU:HD12	1.86	0.57
2:G:18:ARG:HG3	2:G:18:ARG:HH11	1.70	0.57
1:B:1492:CYS:SG	1:B:1494:MET:HG3	2.45	0.57
1:B:2244:ARG:NH1	1:B:2244:ARG:HB2	2.20	0.57
1:B:2867:LEU:HB2	1:B:2928:LYS:HE2	1.87	0.57
1:D:1492:CYS:SG	1:D:1494:MET:HG3	2.45	0.57
1:D:2867:LEU:HB2	1:D:2928:LYS:HE2	1.87	0.57
1:D:3202:PRO:HA	1:D:3283:ARG:NH2	2.19	0.57
1:C:3202:PRO:HA	1:C:3283:ARG:NH2	2.19	0.57
1:C:3412:LEU:HD11	1:C:3434:LEU:HD21	1.85	0.57
1:A:2867:LEU:HB2	1:A:2928:LYS:HE2	1.87	0.57
1:A:3104:GLU:O	1:A:3107:VAL:HG22	2.05	0.57
1:B:2206:THR:HA	1:B:2209:GLU:OE1	2.04	0.57
1:D:2863:SER:O	1:D:2928:LYS:NZ	2.38	0.57
1:D:3356:SER:HG	1:D:3357:HIS:HD1	1.51	0.57
1:D:4980:LEU:HB3	1:D:4981:GLU:OE1	2.05	0.57
1:C:3104:GLU:O	1:C:3107:VAL:HG22	2.05	0.57
1:A:239:ASP:OD2	1:A:239:ASP:N	2.37	0.57
1:A:1492:CYS:SG	1:A:1494:MET:HG3	2.45	0.57
1:A:2244:ARG:HA	1:A:2247:GLN:HB2	1.87	0.57
1:A:3588:ASP:O	1:A:3592:ILE:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:13:ARG:NH1	2:F:13:ARG:HB3	2.20	0.57
1:B:1068:ARG:HA	1:B:1071:ARG:HG2	1.87	0.57
1:B:1081:TYR:CE1	1:B:1230:MET:HE1	2.40	0.57
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.86	0.57
1:C:2011:HIS:ND1	1:C:2011:HIS:O	2.38	0.57
1:D:1081:TYR:CE1	1:D:1230:MET:HE1	2.40	0.57
1:D:2011:HIS:ND1	1:D:2011:HIS:O	2.38	0.57
1:D:2823:ILE:HD11	1:D:2935:TYR:HB3	1.87	0.57
1:D:3433:GLU:HG3	1:D:3437:MET:HE2	1.87	0.57
1:D:3848:GLU:O	1:D:3852:LYS:HG2	2.05	0.57
1:D:4161:ARG:HA	1:D:4164:LEU:HD12	1.86	0.57
1:C:2244:ARG:NH1	1:C:2244:ARG:HB2	2.20	0.57
1:C:3093:ARG:HD2	1:C:3160:ASP:OD2	2.03	0.57
1:C:3547:GLU:N	1:C:3547:GLU:OE1	2.38	0.57
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.86	0.57
1:A:179:TYR:N	1:A:194:SER:O	2.38	0.56
1:A:2823:ILE:HD11	1:A:2935:TYR:HB3	1.87	0.56
1:A:3984:ARG:HH22	1:B:102:LEU:HD11	1.69	0.56
1:B:239:ASP:OD2	1:B:239:ASP:N	2.37	0.56
1:D:2244:ARG:HA	1:D:2247:GLN:HB2	1.87	0.56
1:D:2440:MET:SD	1:D:2444:GLN:NE2	2.78	0.56
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.87	0.56
1:C:2863:SER:O	1:C:2928:LYS:NZ	2.38	0.56
1:C:4847:VAL:HA	1:C:4850:LEU:HD12	1.87	0.56
1:A:4041:ALA:O	1:A:4045:VAL:HG23	2.05	0.56
1:B:1186:ASP:OD1	1:B:1187:GLY:N	2.38	0.56
1:B:2011:HIS:ND1	1:B:2011:HIS:O	2.38	0.56
1:B:4980:LEU:HB3	1:B:4981:GLU:OE1	2.05	0.56
1:D:1068:ARG:HA	1:D:1071:ARG:HG2	1.87	0.56
1:A:892:THR:HG22	1:A:961:MET:HA	1.86	0.56
1:A:1186:ASP:OD1	1:A:1187:GLY:N	2.38	0.56
1:A:1653:LEU:HD23	1:A:1707:LEU:HD11	1.87	0.56
1:A:2440:MET:SD	1:A:2444:GLN:NE2	2.78	0.56
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.87	0.56
1:B:3655:GLU:HA	1:B:3658:LYS:HZ3	1.69	0.56
1:D:76:ARG:HH12	1:C:3936:TYR:CA	2.18	0.56
1:D:1619:ARG:HA	1:D:1626:TRP:HA	1.86	0.56
1:D:2102:VAL:HG13	1:D:2120:MET:HE2	1.87	0.56
1:D:3384:LYS:HD2	1:D:3386:GLU:N	2.19	0.56
1:D:3506:GLN:OE1	1:D:3506:GLN:N	2.38	0.56
1:C:1081:TYR:CE1	1:C:1230:MET:HE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2994:GLU:OE1	1:C:2994:GLU:N	2.29	0.56
1:C:3848:GLU:O	1:C:3852:LYS:HG2	2.05	0.56
1:C:4738:ALA:HA	1:C:4743:MET:HG3	1.88	0.56
1:A:635:THR:OG1	1:A:1693:GLN:OE1	2.20	0.56
1:A:1081:TYR:CE1	1:A:1230:MET:HE1	2.40	0.56
1:A:2102:VAL:HG13	1:A:2120:MET:HE2	1.87	0.56
1:B:3433:GLU:HG3	1:B:3437:MET:HE2	1.87	0.56
1:D:1653:LEU:HD23	1:D:1707:LEU:HD11	1.87	0.56
1:D:1753:LYS:HZ1	1:D:1759:ARG:H	1.52	0.56
1:D:4041:ALA:O	1:D:4045:VAL:HG23	2.06	0.56
1:C:654:GLU:N	1:C:654:GLU:OE2	2.37	0.56
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.87	0.56
1:C:1068:ARG:HA	1:C:1071:ARG:HG2	1.87	0.56
1:C:1653:LEU:HD23	1:C:1707:LEU:HD11	1.87	0.56
1:C:2497:ASP:OD2	1:C:2498:HIS:N	2.38	0.56
1:A:3356:SER:HG	1:A:3357:HIS:HD1	1.52	0.56
1:A:3433:GLU:HG3	1:A:3437:MET:HE2	1.87	0.56
1:B:445:LEU:O	1:B:449:ILE:HG13	2.06	0.56
1:B:2102:VAL:HG13	1:B:2120:MET:HE2	1.87	0.56
1:B:3878:ASP:OD2	1:B:3879:GLU:N	2.39	0.56
1:B:4847:VAL:HA	1:B:4850:LEU:HD12	1.87	0.56
1:D:1079:LYS:HA	1:D:1189:LEU:HD11	1.87	0.56
1:D:3878:ASP:OD2	1:D:3879:GLU:N	2.39	0.56
1:D:3936:TYR:O	1:D:3940:LYS:NZ	2.38	0.56
1:A:719:LEU:HD11	2:E:7:ILE:HA	1.88	0.56
1:A:3936:TYR:HA	1:B:76:ARG:HH22	1.71	0.56
2:E:54:GLU:HG2	2:E:55:VAL:HG13	1.87	0.56
1:B:580:GLU:HG3	1:B:620:LEU:HD22	1.88	0.56
1:B:2440:MET:SD	1:B:2444:GLN:NE2	2.78	0.56
1:D:281:ARG:NE	1:D:309:THR:OG1	2.39	0.56
1:D:1186:ASP:OD1	1:D:1187:GLY:N	2.38	0.56
1:D:4847:VAL:HA	1:D:4850:LEU:HD12	1.87	0.56
1:C:4980:LEU:HB3	1:C:4981:GLU:OE1	2.05	0.56
1:A:445:LEU:O	1:A:449:ILE:HG13	2.06	0.56
1:A:1068:ARG:HA	1:A:1071:ARG:HG2	1.87	0.56
1:B:3467:MET:HE1	1:C:1174:GLY:HA2	1.88	0.56
1:B:4041:ALA:O	1:B:4045:VAL:HG23	2.05	0.56
1:D:580:GLU:HG3	1:D:620:LEU:HD22	1.88	0.56
1:D:883:ALA:HB1	1:D:907:LEU:HD13	1.88	0.56
1:D:2497:ASP:OD2	1:D:2498:HIS:N	2.38	0.56
1:D:4016:LEU:O	1:D:4020:GLN:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2867:LEU:HB2	1:C:2928:LYS:HE2	1.87	0.56
1:C:3384:LYS:HD2	1:C:3386:GLU:N	2.19	0.56
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	1.85	0.56
1:A:580:GLU:HG3	1:A:620:LEU:HD22	1.88	0.56
1:A:2244:ARG:HB2	1:A:2244:ARG:NH1	2.20	0.56
1:A:2502:MET:HA	1:A:2502:MET:HE3	1.88	0.56
1:A:3211:ASN:ND2	1:A:3236:VAL:HB	2.21	0.56
1:A:3351:PRO:O	1:A:3354:LEU:HG	2.06	0.56
1:A:3506:GLN:OE1	1:A:3506:GLN:N	2.38	0.56
2:H:82:TYR:HD1	1:D:1786:LEU:HG	1.70	0.56
1:D:2994:GLU:OE1	1:D:2994:GLU:N	2.29	0.56
1:C:913:LEU:O	1:C:918:ARG:NH2	2.33	0.56
1:C:3878:ASP:OD2	1:C:3879:GLU:N	2.39	0.56
1:A:1057:ASP:OD1	1:A:1057:ASP:N	2.39	0.56
1:B:1265:ASP:OD1	1:B:1265:ASP:N	2.38	0.56
1:D:138:GLN:NE2	1:D:146:CYS:SG	2.79	0.56
1:C:883:ALA:HB1	1:C:907:LEU:HD13	1.88	0.56
1:A:1079:LYS:HA	1:A:1189:LEU:HD11	1.87	0.56
1:A:4184:MET:HE3	1:A:4185:GLY:N	2.21	0.56
1:A:4731:ILE:HD12	1:A:4732:PHE:HD2	1.71	0.56
1:A:4847:VAL:HA	1:A:4850:LEU:HD12	1.87	0.56
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.87	0.56
1:B:2823:ILE:HD11	1:B:2935:TYR:HB3	1.87	0.56
1:D:965:TYR:HD1	1:D:966:LYS:H	1.54	0.56
1:D:3211:ASN:ND2	1:D:3236:VAL:HB	2.21	0.56
1:D:4184:MET:HE3	1:D:4185:GLY:N	2.21	0.56
1:D:4738:ALA:HA	1:D:4743:MET:HG3	1.88	0.56
1:C:281:ARG:NE	1:C:309:THR:OG1	2.39	0.56
1:C:1057:ASP:OD1	1:C:1057:ASP:N	2.39	0.56
1:C:1465:ASP:OD1	1:C:1468:LYS:N	2.39	0.56
1:C:2440:MET:SD	1:C:2444:GLN:NE2	2.78	0.56
1:C:2823:ILE:HD11	1:C:2935:TYR:HB3	1.87	0.56
1:C:4016:LEU:O	1:C:4020:GLN:HG3	2.06	0.56
1:A:138:GLN:NE2	1:A:146:CYS:SG	2.79	0.55
1:A:651:GLY:N	1:A:658:GLN:OE1	2.36	0.55
1:A:965:TYR:HD1	1:A:966:LYS:H	1.54	0.55
1:B:179:TYR:N	1:B:194:SER:O	2.38	0.55
1:B:281:ARG:NE	1:B:309:THR:OG1	2.39	0.55
1:B:1465:ASP:OD1	1:B:1468:LYS:N	2.39	0.55
1:B:2502:MET:HE3	1:B:2502:MET:HA	1.88	0.55
1:B:2821:TRP:HH2	1:B:2877:GLN:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3104:GLU:O	1:B:3107:VAL:HG22	2.05	0.55
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.86	0.55
1:D:2244:ARG:HB2	1:D:2244:ARG:NH1	2.20	0.55
1:C:138:GLN:NE2	1:C:146:CYS:SG	2.79	0.55
1:C:2244:ARG:HA	1:C:2247:GLN:HB2	1.87	0.55
1:C:4041:ALA:O	1:C:4045:VAL:HG23	2.05	0.55
1:C:4731:ILE:HD12	1:C:4732:PHE:HD2	1.71	0.55
1:A:281:ARG:NE	1:A:309:THR:OG1	2.39	0.55
1:A:2497:ASP:OD2	1:A:2498:HIS:N	2.38	0.55
1:B:131:LEU:HD13	1:B:195:PHE:H	1.70	0.55
1:B:1773:PRO:HA	1:B:2153:MET:HE2	1.88	0.55
1:B:2497:ASP:OD2	1:B:2498:HIS:N	2.38	0.55
1:B:4738:ALA:HA	1:B:4743:MET:HG3	1.88	0.55
1:D:445:LEU:O	1:D:449:ILE:HG13	2.06	0.55
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.87	0.55
1:D:2821:TRP:HH2	1:D:2877:GLN:HB3	1.71	0.55
1:C:179:TYR:N	1:C:194:SER:O	2.39	0.55
1:C:1079:LYS:HA	1:C:1189:LEU:HD11	1.87	0.55
1:C:2821:TRP:HH2	1:C:2877:GLN:HB3	1.71	0.55
1:A:590:LEU:HD22	1:A:631:LEU:HD13	1.89	0.55
1:A:4016:LEU:O	1:A:4020:GLN:HG3	2.06	0.55
1:B:590:LEU:HD22	1:B:631:LEU:HD13	1.89	0.55
1:B:730:VAL:HG23	1:B:1476:MET:HE1	1.88	0.55
1:D:1057:ASP:N	1:D:1057:ASP:OD1	2.39	0.55
1:C:635:THR:OG1	1:C:1693:GLN:OE1	2.20	0.55
1:C:1186:ASP:OD1	1:C:1187:GLY:N	2.38	0.55
1:C:1492:CYS:SG	1:C:1494:MET:HG3	2.45	0.55
1:C:3211:ASN:ND2	1:C:3236:VAL:HB	2.21	0.55
1:C:3433:GLU:HG3	1:C:3437:MET:HE2	1.87	0.55
1:C:4184:MET:HE3	1:C:4185:GLY:N	2.21	0.55
1:C:4867:GLU:OE1	1:C:4867:GLU:N	2.37	0.55
1:A:545:ASP:OD2	1:A:545:ASP:N	2.33	0.55
1:A:2285:GLU:OE1	1:A:2285:GLU:N	2.26	0.55
1:A:3878:ASP:OD2	1:A:3879:GLU:N	2.39	0.55
1:B:1653:LEU:HD23	1:B:1707:LEU:HD11	1.87	0.55
1:B:3211:ASN:ND2	1:B:3236:VAL:HB	2.21	0.55
1:C:445:LEU:O	1:C:449:ILE:HG13	2.06	0.55
1:C:580:GLU:HG3	1:C:620:LEU:HD22	1.88	0.55
1:C:1773:PRO:HA	1:C:2153:MET:HE2	1.88	0.55
1:A:1228:ILE:HG12	1:D:3571:TRP:CE2	2.41	0.55
1:B:213:TYR:HD1	1:B:340:LYS:HD3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3351:PRO:O	1:B:3354:LEU:HG	2.06	0.55
1:D:111:HIS:CE1	1:D:113:HIS:HB3	2.42	0.55
1:D:213:TYR:HD1	1:D:340:LYS:HD3	1.72	0.55
1:D:730:VAL:HG23	1:D:1476:MET:HE1	1.88	0.55
1:D:3351:PRO:O	1:D:3354:LEU:HG	2.06	0.55
1:C:880:GLU:OE1	1:C:969:PRO:HA	2.07	0.55
1:D:1465:ASP:OD1	1:D:1468:LYS:N	2.39	0.55
1:C:2102:VAL:HG13	1:C:2120:MET:HE2	1.88	0.55
1:A:111:HIS:CE1	1:A:113:HIS:HB3	2.42	0.55
1:A:131:LEU:HD13	1:A:195:PHE:H	1.70	0.55
1:A:1291:LEU:HD13	1:A:1595:LEU:HD11	1.89	0.55
1:A:2096:GLU:N	1:A:2096:GLU:OE2	2.38	0.55
1:B:2668:SER:O	1:B:2669:GLU:HG3	2.07	0.55
1:D:880:GLU:OE1	1:D:969:PRO:HA	2.07	0.55
1:C:131:LEU:HD13	1:C:195:PHE:H	1.70	0.55
1:C:965:TYR:HD1	1:C:966:LYS:H	1.54	0.55
1:C:1291:LEU:HD13	1:C:1595:LEU:HD11	1.89	0.55
1:C:2973:PHE:CD2	1:C:2995:ILE:HG12	2.42	0.55
1:C:3351:PRO:O	1:C:3354:LEU:HG	2.06	0.55
1:C:3620:TRP:CD1	1:C:3622:LYS:HB3	2.42	0.55
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.87	0.55
1:A:1999:ARG:NH2	1:A:3638:MET:O	2.40	0.55
1:A:4738:ALA:HA	1:A:4743:MET:HG3	1.88	0.55
2:F:18:ARG:HH11	2:F:18:ARG:HG3	1.71	0.55
1:B:138:GLN:NE2	1:B:146:CYS:SG	2.79	0.55
1:B:4184:MET:HE3	1:B:4185:GLY:N	2.21	0.55
1:C:33:LEU:HD12	1:C:53:SER:HB2	1.89	0.55
1:C:2668:SER:O	1:C:2669:GLU:HG3	2.07	0.55
1:C:4096:ALA:O	1:C:4100:GLN:HG2	2.07	0.55
1:A:2656:CYS:HA	1:A:2711:PRO:HG3	1.88	0.55
1:A:4091:LYS:O	1:A:4095:LYS:HG2	2.07	0.55
2:E:35:LYS:NZ	2:E:38:SER:HB3	2.22	0.55
1:B:358:THR:HG21	1:B:379:HIS:HB3	1.89	0.55
1:B:3108:GLU:HB3	1:B:3114:LYS:HZ2	1.72	0.55
1:B:3499:ARG:O	1:B:3499:ARG:NE	2.36	0.55
1:D:131:LEU:HD13	1:D:195:PHE:H	1.70	0.55
1:D:590:LEU:HD22	1:D:631:LEU:HD13	1.89	0.55
1:C:2656:CYS:HA	1:C:2711:PRO:HG3	1.88	0.55
1:A:213:TYR:HD1	1:A:340:LYS:HD3	1.72	0.55
1:A:3380:ARG:NH1	1:A:3391:GLU:OE1	2.40	0.55
1:B:1079:LYS:HG2	1:B:1107:PRO:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1568:LYS:NZ	1:B:1569:GLN:O	2.40	0.55
1:B:3380:ARG:NH1	1:B:3391:GLU:OE1	2.40	0.55
1:A:883:ALA:HB1	1:A:907:LEU:HD13	1.88	0.54
1:A:2490:MET:HE2	1:A:2490:MET:HA	1.90	0.54
1:B:2030:ASP:OD2	1:B:2031:LEU:N	2.40	0.54
1:B:2285:GLU:OE1	1:B:2285:GLU:N	2.26	0.54
1:B:3007:ASN:O	1:B:3011:THR:OG1	2.19	0.54
1:C:213:TYR:HD1	1:C:340:LYS:HD3	1.72	0.54
1:C:1265:ASP:OD1	1:C:1265:ASP:N	2.38	0.54
1:A:33:LEU:HD12	1:A:53:SER:HB2	1.89	0.54
1:A:2030:ASP:OD2	1:A:2031:LEU:N	2.40	0.54
1:A:2821:TRP:HH2	1:A:2877:GLN:HB3	1.71	0.54
1:B:33:LEU:HD12	1:B:53:SER:HB2	1.89	0.54
1:B:2806:ARG:HG3	1:B:2810:LYS:NZ	2.22	0.54
1:B:3524:MET:O	1:B:3595:ARG:NH1	2.41	0.54
1:B:3943:ILE:HG13	1:B:4002:LYS:HE2	1.89	0.54
1:B:4016:LEU:O	1:B:4020:GLN:HG3	2.06	0.54
1:B:4731:ILE:HD12	1:B:4732:PHE:HD2	1.71	0.54
1:C:590:LEU:HD22	1:C:631:LEU:HD13	1.89	0.54
1:C:651:GLY:N	1:C:658:GLN:OE1	2.36	0.54
1:C:3499:ARG:O	1:C:3499:ARG:NE	2.36	0.54
1:A:299:LEU:HD13	1:A:378:LEU:HD11	1.89	0.54
1:A:385:ASP:OD1	1:A:385:ASP:N	2.38	0.54
1:A:1079:LYS:HG2	1:A:1107:PRO:HB3	1.89	0.54
1:A:2189:LYS:HA	1:A:2192:TYR:CD2	2.42	0.54
1:A:2668:SER:O	1:A:2669:GLU:HG3	2.07	0.54
1:B:426:ARG:NH1	1:B:509:GLU:OE1	2.34	0.54
1:B:883:ALA:HB1	1:B:907:LEU:HD13	1.88	0.54
1:B:1291:LEU:HD13	1:B:1595:LEU:HD11	1.89	0.54
1:B:2973:PHE:CD2	1:B:2995:ILE:HG12	2.42	0.54
1:C:801:LYS:HE2	1:C:801:LYS:HA	1.89	0.54
1:C:3380:ARG:NH1	1:C:3391:GLU:OE1	2.40	0.54
1:A:730:VAL:HG23	1:A:1476:MET:HE1	1.88	0.54
1:A:2973:PHE:CD2	1:A:2995:ILE:HG12	2.42	0.54
1:A:4096:ALA:O	1:A:4100:GLN:HG2	2.07	0.54
1:B:965:TYR:HD1	1:B:966:LYS:H	1.54	0.54
1:D:179:TYR:N	1:D:194:SER:O	2.38	0.54
1:D:515:TRP:O	1:D:519:VAL:HG13	2.08	0.54
1:D:961:MET:HE1	1:D:965:TYR:O	2.08	0.54
1:D:1773:PRO:HA	1:D:2153:MET:HE2	1.88	0.54
1:D:1944:GLU:HB2	1:D:2123:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2030:ASP:OD2	1:D:2031:LEU:N	2.41	0.54
1:D:2189:LYS:HA	1:D:2192:TYR:CD2	2.42	0.54
1:D:2502:MET:HA	1:D:2502:MET:HE3	1.88	0.54
1:D:4867:GLU:OE1	1:D:4867:GLU:N	2.37	0.54
1:C:111:HIS:CE1	1:C:113:HIS:HB3	2.42	0.54
1:C:1975:SER:O	1:C:1979:LEU:HD22	2.08	0.54
1:C:2502:MET:HA	1:C:2502:MET:HE3	1.88	0.54
1:A:296:ASP:OD2	1:A:296:ASP:N	2.40	0.54
1:A:463:GLU:OE2	1:A:463:GLU:N	2.29	0.54
1:A:961:MET:HE1	1:A:965:TYR:O	2.08	0.54
1:A:1568:LYS:NZ	1:A:1569:GLN:O	2.40	0.54
1:A:2002:PRO:HD3	1:A:3638:MET:SD	2.48	0.54
1:B:2490:MET:HE2	1:B:2490:MET:HA	1.90	0.54
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.89	0.54
1:B:4091:LYS:O	1:B:4095:LYS:HG2	2.07	0.54
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.07	0.54
1:D:33:LEU:HD12	1:D:53:SER:HB2	1.89	0.54
1:D:299:LEU:HD13	1:D:378:LEU:HD11	1.89	0.54
1:D:651:GLY:N	1:D:658:GLN:OE1	2.36	0.54
1:D:1291:LEU:HD13	1:D:1595:LEU:HD11	1.89	0.54
1:D:1999:ARG:NH2	1:D:3638:MET:O	2.40	0.54
1:D:2656:CYS:HA	1:D:2711:PRO:HG3	1.89	0.54
1:C:239:ASP:OD2	1:C:239:ASP:N	2.37	0.54
1:C:730:VAL:HG23	1:C:1476:MET:HE1	1.88	0.54
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.89	0.54
1:C:4687:TYR:OH	1:C:4699:GLY:O	2.20	0.54
1:A:1292:SER:OG	1:A:1596:GLU:O	2.26	0.54
1:B:385:ASP:OD1	1:B:385:ASP:N	2.38	0.54
1:B:515:TRP:O	1:B:519:VAL:HG13	2.08	0.54
1:B:2002:PRO:HD3	1:B:3638:MET:SD	2.48	0.54
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.89	0.54
1:B:3620:TRP:CD1	1:B:3622:LYS:HB3	2.42	0.54
1:D:2490:MET:HA	1:D:2490:MET:HE2	1.89	0.54
1:D:4090:LYS:HE2	1:D:4112:LEU:HD22	1.89	0.54
1:C:4091:LYS:O	1:C:4095:LYS:HG2	2.07	0.54
1:A:358:THR:HG21	1:A:379:HIS:HB3	1.89	0.54
1:A:1174:GLY:HA2	1:D:3467:MET:HE1	1.89	0.54
2:E:18:ARG:HA	2:E:18:ARG:HH11	1.72	0.54
1:B:3320:LEU:HD11	1:B:3358:PHE:CE1	2.43	0.54
1:D:2668:SER:O	1:D:2669:GLU:HG3	2.07	0.54
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4731:ILE:HD12	1:D:4732:PHE:HD2	1.71	0.54
1:C:3506:GLN:N	1:C:3506:GLN:OE1	2.38	0.54
1:C:4131:ARG:HG2	1:C:4132:PHE:CD2	2.43	0.54
1:A:801:LYS:HE2	1:A:801:LYS:HA	1.89	0.54
1:A:1773:PRO:HA	1:A:2153:MET:HE2	1.88	0.54
1:B:111:HIS:CE1	1:B:113:HIS:HB3	2.42	0.54
1:B:565:TYR:O	1:B:569:ILE:HG23	2.08	0.54
1:B:961:MET:HE1	1:B:965:TYR:O	2.08	0.54
1:B:1601:MET:HE2	1:B:1601:MET:HA	1.90	0.54
1:D:1537:ASN:OD1	1:D:1537:ASN:N	2.40	0.54
1:D:3524:MET:O	1:D:3595:ARG:NH1	2.41	0.54
1:C:294:THR:O	1:C:298:GLY:N	2.41	0.54
1:C:1699:GLU:HA	1:C:1814:MET:HE1	1.90	0.54
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.90	0.54
1:C:3515:LYS:HD3	1:C:3606:LEU:HD11	1.90	0.54
1:C:3943:ILE:HG13	1:C:4002:LYS:HE2	1.89	0.54
1:C:4725:LEU:HA	1:C:4737:ILE:HG21	1.90	0.54
1:A:515:TRP:O	1:A:519:VAL:HG13	2.08	0.54
1:A:3320:LEU:HD11	1:A:3358:PHE:CE1	2.43	0.54
1:A:3620:TRP:CD1	1:A:3622:LYS:HB3	2.42	0.54
1:B:954:LYS:HE3	1:B:966:LYS:HE3	1.90	0.54
1:B:1292:SER:OG	1:B:1596:GLU:O	2.26	0.54
1:D:294:THR:O	1:D:298:GLY:N	2.41	0.54
1:D:2806:ARG:HG3	1:D:2810:LYS:NZ	2.22	0.54
1:D:3380:ARG:NH1	1:D:3391:GLU:OE1	2.40	0.54
1:C:515:TRP:O	1:C:519:VAL:HG13	2.08	0.54
1:C:961:MET:HE1	1:C:965:TYR:O	2.08	0.54
1:C:3524:MET:O	1:C:3595:ARG:NH1	2.41	0.54
1:A:1601:MET:HA	1:A:1601:MET:HE2	1.90	0.54
1:A:3524:MET:O	1:A:3595:ARG:NH1	2.41	0.54
1:A:3943:ILE:HG13	1:A:4002:LYS:HE2	1.89	0.54
2:E:37:ASP:OD2	2:E:38:SER:N	2.40	0.54
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.90	0.54
1:D:635:THR:OG1	1:D:1693:GLN:OE1	2.20	0.54
1:D:2002:PRO:HD3	1:D:3638:MET:SD	2.48	0.54
1:D:2292:GLU:OE1	1:D:2292:GLU:N	2.41	0.54
1:D:3515:LYS:HD3	1:D:3606:LEU:HD11	1.90	0.54
1:D:3620:TRP:CD1	1:D:3622:LYS:HB3	2.42	0.54
1:D:3943:ILE:HG13	1:D:4002:LYS:HE2	1.89	0.54
1:D:4096:ALA:O	1:D:4100:GLN:HG2	2.07	0.54
1:C:999:ASP:OD1	1:C:1000:ARG:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2806:ARG:HG3	1:C:2810:LYS:NZ	2.22	0.54
1:C:3621:HIS:HB3	1:C:3623:LEU:HD23	1.90	0.54
1:C:3729:MET:HB3	1:C:3770:LEU:HD11	1.91	0.54
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.90	0.54
1:A:880:GLU:OE1	1:A:969:PRO:HA	2.07	0.53
1:A:3169:LEU:HD12	1:A:3194:LEU:HD11	1.90	0.53
1:A:4090:LYS:HE2	1:A:4112:LEU:HD22	1.89	0.53
1:B:877:ASN:HA	1:B:880:GLU:OE1	2.09	0.53
1:B:999:ASP:OD1	1:B:1000:ARG:N	2.41	0.53
1:B:2189:LYS:HA	1:B:2192:TYR:CD2	2.42	0.53
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.90	0.53
1:D:877:ASN:HA	1:D:880:GLU:OE1	2.09	0.53
1:D:1079:LYS:HG2	1:D:1107:PRO:HB3	1.89	0.53
1:D:3768:SER:HA	1:D:3771:HIS:CE1	2.43	0.53
1:C:234:SER:HG	1:C:238:SER:HG	1.52	0.53
1:C:3108:GLU:HB3	1:C:3114:LYS:HZ2	1.72	0.53
1:A:954:LYS:HE3	1:A:966:LYS:HE3	1.90	0.53
1:A:2412:GLU:H	1:A:2412:GLU:CD	2.16	0.53
1:A:2806:ARG:HG3	1:A:2810:LYS:NZ	2.22	0.53
1:A:3102:ASP:OD1	1:A:3105:LYS:NZ	2.36	0.53
1:A:3621:HIS:HB3	1:A:3623:LEU:HD23	1.90	0.53
1:B:880:GLU:OE1	1:B:969:PRO:HA	2.07	0.53
1:B:3515:LYS:HD3	1:B:3606:LEU:HD11	1.90	0.53
1:B:4098:ASP:O	1:B:4101:LYS:NZ	2.33	0.53
1:D:2973:PHE:CD2	1:D:2995:ILE:HG12	2.42	0.53
1:D:4091:LYS:O	1:D:4095:LYS:HG2	2.07	0.53
1:D:4131:ARG:HG2	1:D:4132:PHE:CD2	2.43	0.53
1:C:1115:LEU:HD13	1:C:1123:VAL:HG11	1.91	0.53
1:C:2192:TYR:HE1	1:C:2238:TYR:CE1	2.27	0.53
1:C:3768:SER:HA	1:C:3771:HIS:CE1	2.43	0.53
1:C:4090:LYS:HE2	1:C:4112:LEU:HD22	1.89	0.53
1:B:1699:GLU:HA	1:B:1814:MET:HE1	1.90	0.53
1:B:1999:ARG:NH2	1:B:3638:MET:O	2.40	0.53
1:B:2192:TYR:HE1	1:B:2238:TYR:CE1	2.27	0.53
1:B:3087:ILE:HD12	1:B:3088:VAL:N	2.24	0.53
1:D:426:ARG:NH1	1:D:509:GLU:OE1	2.34	0.53
1:D:565:TYR:O	1:D:569:ILE:HG23	2.08	0.53
1:D:999:ASP:OD1	1:D:1000:ARG:N	2.41	0.53
1:D:3320:LEU:HD11	1:D:3358:PHE:CE1	2.43	0.53
1:C:2030:ASP:OD2	1:C:2031:LEU:N	2.40	0.53
1:A:73:LEU:O	1:A:106:ALA:N	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1944:GLU:HB2	1:A:2123:LEU:HD11	1.89	0.53
1:A:1970:GLN:HG2	1:A:3642:TYR:HA	1.90	0.53
1:A:2192:TYR:HE1	1:A:2238:TYR:CE1	2.27	0.53
1:A:4131:ARG:HG2	1:A:4132:PHE:CD2	2.43	0.53
1:B:651:GLY:N	1:B:658:GLN:OE1	2.36	0.53
1:B:1944:GLU:HB2	1:B:2123:LEU:HD11	1.89	0.53
1:D:1975:SER:O	1:D:1979:LEU:HD22	2.08	0.53
1:D:3169:LEU:HD12	1:D:3194:LEU:HD11	1.90	0.53
1:D:3368:ARG:O	1:D:3372:VAL:HG23	2.09	0.53
1:C:1079:LYS:HG2	1:C:1107:PRO:HB3	1.89	0.53
1:C:1568:LYS:NZ	1:C:1569:GLN:O	2.40	0.53
1:C:2189:LYS:HA	1:C:2192:TYR:CD2	2.42	0.53
1:A:877:ASN:HA	1:A:880:GLU:OE1	2.08	0.53
1:A:1975:SER:O	1:A:1979:LEU:HD22	2.08	0.53
1:A:2358:ILE:HB	1:B:195:PHE:CD1	2.44	0.53
1:A:3416:VAL:HG11	1:A:3517:MET:HG2	1.90	0.53
2:H:105:LYS:NZ	2:H:106:LEU:O	2.42	0.53
1:B:801:LYS:HE2	1:B:801:LYS:HA	1.89	0.53
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.25	0.53
1:B:3506:GLN:OE1	1:B:3506:GLN:N	2.38	0.53
1:B:4131:ARG:HG2	1:B:4132:PHE:CD2	2.43	0.53
1:D:801:LYS:HA	1:D:801:LYS:HE2	1.89	0.53
1:D:954:LYS:HE3	1:D:966:LYS:HE3	1.90	0.53
1:D:1115:LEU:HD13	1:D:1123:VAL:HG11	1.91	0.53
1:D:3087:ILE:HD12	1:D:3088:VAL:N	2.24	0.53
1:C:1999:ARG:NH2	1:C:3638:MET:O	2.40	0.53
1:C:3320:LEU:HD11	1:C:3358:PHE:CE1	2.43	0.53
1:A:1106:ARG:NH2	1:A:1183:GLU:OE2	2.42	0.53
1:A:1699:GLU:HA	1:A:1814:MET:HE1	1.90	0.53
1:B:299:LEU:HD13	1:B:378:LEU:HD11	1.89	0.53
1:B:1106:ARG:NH2	1:B:1183:GLU:OE2	2.42	0.53
1:B:2412:GLU:H	1:B:2412:GLU:CD	2.16	0.53
1:D:358:THR:HG21	1:D:379:HIS:HB3	1.89	0.53
1:D:1820:ARG:NH1	1:D:1820:ARG:HB2	2.24	0.53
1:D:1970:GLN:HG2	1:D:3642:TYR:HA	1.90	0.53
1:D:3108:GLU:HB3	1:D:3114:LYS:HZ3	1.73	0.53
1:D:3240:CYS:HB2	1:D:3242:ASP:OD1	2.09	0.53
1:D:4640:GLU:HB3	1:D:4641:PRO:HD3	1.90	0.53
1:C:299:LEU:HD13	1:C:378:LEU:HD11	1.89	0.53
1:C:358:THR:HG21	1:C:379:HIS:HB3	1.89	0.53
1:C:1944:GLU:HB2	1:C:2123:LEU:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:TYR:O	1:A:569:ILE:HG23	2.08	0.53
1:A:950:LEU:HD22	1:A:970:LEU:HD11	1.91	0.53
1:A:3729:MET:HB3	1:A:3770:LEU:HD11	1.91	0.53
1:B:294:THR:O	1:B:298:GLY:N	2.41	0.53
1:B:1115:LEU:HD13	1:B:1123:VAL:HG11	1.91	0.53
1:B:2656:CYS:HA	1:B:2711:PRO:HG3	1.89	0.53
1:B:2806:ARG:HG3	1:B:2810:LYS:HZ3	1.73	0.53
1:C:426:ARG:NE	1:C:427:GLY:O	2.42	0.53
1:A:164:ARG:HH11	1:A:164:ARG:HG3	1.74	0.53
1:A:213:TYR:CD1	1:A:340:LYS:HD3	2.44	0.53
1:A:3335:MET:SD	1:A:3403:ARG:NH1	2.82	0.53
1:A:3352:GLU:H	1:A:3352:GLU:CD	2.17	0.53
1:A:4860:ARG:NH1	1:D:4630:TYR:OH	2.38	0.53
1:B:384:MET:HE2	1:B:384:MET:N	2.18	0.53
1:B:3352:GLU:CD	1:B:3352:GLU:H	2.17	0.53
1:D:213:TYR:CD1	1:D:340:LYS:HD3	2.44	0.53
1:D:2299:VAL:HG11	1:D:2356:LEU:HB3	1.91	0.53
1:C:13:PHE:CE1	1:C:164:ARG:HG2	2.44	0.53
1:C:2490:MET:HE2	1:C:2490:MET:HA	1.90	0.53
1:C:4223:ASN:HB3	1:C:4224:GLU:CD	2.34	0.53
1:A:999:ASP:OD1	1:A:1000:ARG:N	2.41	0.53
1:A:1599:MET:HG3	1:A:1601:MET:HE3	1.91	0.53
1:A:3768:SER:HA	1:A:3771:HIS:CE1	2.43	0.53
2:G:35:LYS:HZ1	2:G:38:SER:HB3	1.74	0.53
1:B:463:GLU:OE2	1:B:463:GLU:N	2.29	0.53
1:B:1172:ASP:OD1	1:B:1172:ASP:N	2.35	0.53
1:B:3416:VAL:HG11	1:B:3517:MET:HG2	1.90	0.53
1:B:3638:MET:HE3	1:B:3638:MET:C	2.34	0.53
1:B:3768:SER:HA	1:B:3771:HIS:CE1	2.43	0.53
1:B:4223:ASN:HB3	1:B:4224:GLU:CD	2.34	0.53
1:D:1106:ARG:NH2	1:D:1183:GLU:OE2	2.42	0.53
1:D:3729:MET:HB3	1:D:3770:LEU:HD11	1.91	0.53
1:C:213:TYR:CD1	1:C:340:LYS:HD3	2.44	0.53
1:C:877:ASN:HA	1:C:880:GLU:OE1	2.08	0.53
1:C:1292:SER:OG	1:C:1596:GLU:O	2.26	0.53
1:C:1601:MET:HE2	1:C:1601:MET:HA	1.90	0.53
1:C:1820:ARG:HB2	1:C:1820:ARG:NH1	2.24	0.53
1:C:2002:PRO:HD3	1:C:3638:MET:SD	2.48	0.53
1:A:901:LYS:HG3	1:A:903:LEU:HG	1.91	0.53
1:A:2967:MET:HE3	1:A:3049:LEU:HG	1.91	0.53
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3368:ARG:O	1:A:3372:VAL:HG23	2.09	0.53
1:A:3515:LYS:HD3	1:A:3606:LEU:HD11	1.90	0.53
1:A:4223:ASN:HB3	1:A:4224:GLU:CD	2.34	0.53
1:A:4725:LEU:HA	1:A:4737:ILE:HG21	1.90	0.53
1:B:13:PHE:CE1	1:B:164:ARG:HG2	2.44	0.53
1:B:164:ARG:HH11	1:B:164:ARG:HG3	1.74	0.53
1:B:426:ARG:NE	1:B:427:GLY:O	2.42	0.53
1:B:925:SER:O	1:B:928:THR:OG1	2.20	0.53
1:B:3621:HIS:HB3	1:B:3623:LEU:HD23	1.90	0.53
1:D:13:PHE:CE1	1:D:164:ARG:HG2	2.44	0.53
1:D:1599:MET:HG3	1:D:1601:MET:HE3	1.91	0.53
1:D:2412:GLU:H	1:D:2412:GLU:CD	2.16	0.53
1:C:2412:GLU:CD	1:C:2412:GLU:H	2.16	0.53
1:C:2821:TRP:HD1	1:C:2939:ARG:HA	1.74	0.53
1:C:3416:VAL:HG11	1:C:3517:MET:HG2	1.90	0.53
1:C:3966:THR:O	1:C:3970:GLN:HB2	2.09	0.53
1:C:4989:MET:O	1:C:4993:MET:HG3	2.09	0.53
1:A:195:PHE:CD1	1:D:2358:ILE:HB	2.44	0.52
1:A:234:SER:OG	1:A:238:SER:OG	2.24	0.52
1:A:426:ARG:NE	1:A:427:GLY:O	2.42	0.52
1:A:647:ASN:OD1	1:A:822:ARG:N	2.39	0.52
1:A:870:ILE:HD12	1:A:1049:TYR:CG	2.44	0.52
1:A:1141:ARG:HB2	1:D:3479:ALA:HA	1.90	0.52
1:A:3087:ILE:HD12	1:A:3088:VAL:N	2.24	0.52
1:A:3754:GLU:HB2	1:A:4718:LYS:HG3	1.91	0.52
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.90	0.52
1:B:73:LEU:O	1:B:106:ALA:N	2.28	0.52
1:B:213:TYR:CD1	1:B:340:LYS:HD3	2.44	0.52
1:D:950:LEU:HD22	1:D:970:LEU:HD11	1.91	0.52
1:D:1292:SER:OG	1:D:1596:GLU:O	2.26	0.52
1:D:1601:MET:HA	1:D:1601:MET:HE2	1.90	0.52
1:D:1699:GLU:HA	1:D:1814:MET:HE1	1.90	0.52
1:D:2967:MET:HE3	1:D:3049:LEU:HG	1.91	0.52
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.90	0.52
1:D:4223:ASN:HB3	1:D:4224:GLU:CD	2.34	0.52
1:C:565:TYR:O	1:C:569:ILE:HG23	2.08	0.52
1:C:954:LYS:HE3	1:C:966:LYS:HE3	1.90	0.52
1:C:1970:GLN:HG2	1:C:3642:TYR:HA	1.89	0.52
1:C:2967:MET:HE3	1:C:3049:LEU:HG	1.91	0.52
1:C:3187:ARG:HG3	1:C:3188:PRO:HD3	1.92	0.52
1:C:3240:CYS:HB2	1:C:3242:ASP:OD1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3754:GLU:HB2	1:C:4718:LYS:HG3	1.91	0.52
1:C:4705:VAL:HG22	1:C:4711:PHE:HB2	1.92	0.52
1:A:426:ARG:NH1	1:A:509:GLU:OE1	2.34	0.52
1:A:1115:LEU:HD13	1:A:1123:VAL:HG11	1.91	0.52
1:B:870:ILE:HD12	1:B:1049:TYR:CG	2.44	0.52
1:B:1975:SER:O	1:B:1979:LEU:HD22	2.08	0.52
1:B:3187:ARG:HG3	1:B:3188:PRO:HD3	1.92	0.52
1:B:3356:SER:HG	1:B:3357:HIS:HD1	1.50	0.52
1:D:164:ARG:HH11	1:D:164:ARG:HG3	1.74	0.52
1:D:879:HIS:NE2	1:D:918:ARG:HA	2.25	0.52
1:D:3335:MET:SD	1:D:3403:ARG:NH1	2.82	0.52
1:D:4725:LEU:HA	1:D:4737:ILE:HG21	1.90	0.52
1:D:4989:MET:O	1:D:4993:MET:HG3	2.09	0.52
1:C:1106:ARG:NH2	1:C:1183:GLU:OE2	2.42	0.52
1:C:3087:ILE:HD12	1:C:3088:VAL:N	2.24	0.52
1:C:4156:HIS:HA	1:C:4161:ARG:HH21	1.74	0.52
1:A:13:PHE:CE1	1:A:164:ARG:HG2	2.44	0.52
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.89	0.52
1:B:1970:GLN:HG2	1:B:3642:TYR:HA	1.89	0.52
1:B:3240:CYS:HB2	1:B:3242:ASP:OD1	2.09	0.52
1:B:4640:GLU:HB3	1:B:4641:PRO:HD3	1.90	0.52
1:B:4705:VAL:HG22	1:B:4711:PHE:HB2	1.92	0.52
1:D:901:LYS:HG3	1:D:903:LEU:HG	1.91	0.52
1:D:1568:LYS:NZ	1:D:1569:GLN:O	2.40	0.52
1:D:2821:TRP:HD1	1:D:2939:ARG:HA	1.74	0.52
1:D:3533:ILE:HG13	1:D:3596:VAL:HG13	1.92	0.52
1:C:877:ASN:HD21	1:C:970:LEU:HB2	1.74	0.52
1:C:1449:TRP:HB2	1:C:1553:PHE:HB2	1.91	0.52
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.38	0.52
1:A:870:ILE:HD12	1:A:1049:TYR:CD2	2.45	0.52
1:A:879:HIS:NE2	1:A:918:ARG:HA	2.25	0.52
1:A:3320:LEU:O	1:A:3324:VAL:HG13	2.10	0.52
1:B:3169:LEU:HD12	1:B:3194:LEU:HD11	1.90	0.52
1:B:3335:MET:SD	1:B:3403:ARG:NH1	2.82	0.52
1:B:3754:GLU:HB2	1:B:4718:LYS:HG3	1.91	0.52
1:B:3966:THR:O	1:B:3970:GLN:HB2	2.09	0.52
1:B:4717:ASP:OD2	1:B:4723:LYS:NZ	2.42	0.52
1:D:3187:ARG:HG3	1:D:3188:PRO:HD3	1.92	0.52
1:A:294:THR:O	1:A:298:GLY:N	2.41	0.52
1:A:1172:ASP:OD1	1:A:1172:ASP:N	2.35	0.52
1:A:2299:VAL:HG11	1:A:2356:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3240:CYS:HB2	1:A:3242:ASP:OD1	2.09	0.52
1:A:3638:MET:C	1:A:3638:MET:HE3	2.34	0.52
1:B:214:VAL:HG22	1:B:341:TYR:CD2	2.45	0.52
1:D:214:VAL:HG22	1:D:341:TYR:CD2	2.45	0.52
1:D:426:ARG:NE	1:D:427:GLY:O	2.42	0.52
1:D:3416:VAL:HG11	1:D:3517:MET:HG2	1.90	0.52
1:C:879:HIS:NE2	1:C:918:ARG:HA	2.25	0.52
1:C:1753:LYS:HD3	1:C:1753:LYS:N	2.24	0.52
1:C:3368:ARG:O	1:C:3372:VAL:HG23	2.09	0.52
1:C:4717:ASP:OD2	1:C:4723:LYS:NZ	2.43	0.52
1:A:627:PRO:HD3	2:E:89:GLY:HA2	1.91	0.52
1:A:1753:LYS:HZ1	1:A:1759:ARG:H	1.57	0.52
1:A:3533:ILE:HG13	1:A:3596:VAL:HG13	1.92	0.52
1:A:3966:THR:O	1:A:3970:GLN:HB2	2.09	0.52
1:B:950:LEU:HD22	1:B:970:LEU:HD11	1.91	0.52
1:D:647:ASN:OD1	1:D:822:ARG:N	2.39	0.52
1:D:870:ILE:HD12	1:D:1049:TYR:CG	2.44	0.52
1:D:2192:TYR:HE1	1:D:2238:TYR:CE1	2.27	0.52
1:C:296:ASP:OD2	1:C:296:ASP:N	2.40	0.52
1:C:618:GLN:O	1:C:622:THR:HG23	2.10	0.52
1:C:3169:LEU:HD12	1:C:3194:LEU:HD11	1.90	0.52
1:C:3320:LEU:O	1:C:3324:VAL:HG13	2.10	0.52
1:A:2587:TYR:CZ	1:A:2591:ARG:HD2	2.45	0.52
1:A:3187:ARG:HG3	1:A:3188:PRO:HD3	1.92	0.52
2:H:25:HIS:CD2	2:H:104:LEU:HD11	2.45	0.52
2:H:89:GLY:O	2:H:90:ILE:HD13	2.09	0.52
1:B:884:LEU:O	1:B:888:GLU:HG2	2.10	0.52
1:B:901:LYS:HG3	1:B:903:LEU:HG	1.91	0.52
1:B:3449:HIS:CE1	1:B:3453:ARG:HD2	2.45	0.52
1:D:870:ILE:HD12	1:D:1049:TYR:CD2	2.45	0.52
1:D:4705:VAL:HG22	1:D:4711:PHE:HB2	1.92	0.52
1:C:870:ILE:HD12	1:C:1049:TYR:CG	2.44	0.52
1:C:3007:ASN:O	1:C:3011:THR:OG1	2.19	0.52
1:A:214:VAL:HG22	1:A:341:TYR:CD2	2.45	0.52
1:A:1537:ASN:OD1	1:A:1537:ASN:N	2.40	0.52
1:A:4705:VAL:HG22	1:A:4711:PHE:HB2	1.92	0.52
2:H:35:LYS:HZ1	2:H:38:SER:HB3	1.75	0.52
2:G:89:GLY:O	2:G:90:ILE:HD13	2.09	0.52
1:B:870:ILE:HD12	1:B:1049:TYR:CD2	2.45	0.52
1:B:879:HIS:NE2	1:B:918:ARG:HA	2.25	0.52
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2967:MET:HE3	1:B:3049:LEU:HG	1.91	0.52
1:D:618:GLN:O	1:D:622:THR:HG23	2.10	0.52
1:D:884:LEU:O	1:D:888:GLU:HG2	2.10	0.52
1:D:2292:GLU:CD	1:D:2292:GLU:H	2.18	0.52
1:D:3621:HIS:HB3	1:D:3623:LEU:HD23	1.90	0.52
1:D:3872:GLU:OE1	1:D:3872:GLU:N	2.42	0.52
1:C:164:ARG:HG3	1:C:164:ARG:HH11	1.74	0.52
1:C:214:VAL:HG22	1:C:341:TYR:CD2	2.45	0.52
1:C:1101:ARG:HG2	1:C:1125:ASN:HB2	1.91	0.52
1:C:2292:GLU:CD	1:C:2292:GLU:H	2.18	0.52
1:C:3335:MET:SD	1:C:3403:ARG:NH1	2.82	0.52
1:C:4068:LEU:O	1:C:4072:VAL:HG13	2.10	0.52
1:A:884:LEU:O	1:A:888:GLU:HG2	2.10	0.52
1:A:1101:ARG:HG2	1:A:1125:ASN:HB2	1.92	0.52
1:A:1820:ARG:NH1	1:A:1820:ARG:HB2	2.24	0.52
1:A:3033:ASN:HA	1:A:3036:LYS:HD2	1.92	0.52
1:A:3872:GLU:N	1:A:3872:GLU:OE1	2.42	0.52
1:B:1820:ARG:NH1	1:B:1820:ARG:HB2	2.24	0.52
1:B:3872:GLU:OE1	1:B:3872:GLU:N	2.42	0.52
1:D:3352:GLU:H	1:D:3352:GLU:CD	2.17	0.52
1:D:3499:ARG:O	1:D:3499:ARG:NE	2.36	0.52
1:D:4068:LEU:O	1:D:4072:VAL:HG13	2.10	0.52
1:C:2881:ASN:HA	1:C:2884:ASN:ND2	2.25	0.52
1:C:3872:GLU:OE1	1:C:3872:GLU:N	2.42	0.52
1:A:877:ASN:HD21	1:A:970:LEU:HB2	1.74	0.52
1:A:3449:HIS:CE1	1:A:3453:ARG:HD2	2.45	0.52
1:B:2587:TYR:CZ	1:B:2591:ARG:HD2	2.45	0.52
1:B:2821:TRP:HD1	1:B:2939:ARG:HA	1.74	0.52
1:B:2992:GLU:HA	1:B:2995:ILE:HD12	1.92	0.52
1:B:4989:MET:O	1:B:4993:MET:HG3	2.09	0.52
1:D:1101:ARG:HG2	1:D:1125:ASN:HB2	1.91	0.52
1:D:3320:LEU:O	1:D:3324:VAL:HG13	2.10	0.52
1:C:1172:ASP:OD1	1:C:1172:ASP:N	2.35	0.52
1:C:3449:HIS:CE1	1:C:3453:ARG:HD2	2.45	0.52
1:A:618:GLN:O	1:A:622:THR:HG23	2.10	0.51
1:B:1101:ARG:HG2	1:B:1125:ASN:HB2	1.92	0.51
1:B:3106:MET:CE	1:B:3132:THR:HB	2.40	0.51
1:B:3320:LEU:O	1:B:3324:VAL:HG13	2.10	0.51
1:B:3368:ARG:O	1:B:3372:VAL:HG23	2.09	0.51
1:B:4687:TYR:OH	1:B:4699:GLY:O	2.20	0.51
1:D:3145:GLN:HG2	1:D:3149:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3638:MET:C	1:D:3638:MET:HE3	2.34	0.51
1:D:3758:MET:HE3	1:D:4719:PHE:CE1	2.46	0.51
1:D:4687:TYR:OH	1:D:4699:GLY:O	2.20	0.51
1:C:950:LEU:HD22	1:C:970:LEU:HD11	1.91	0.51
1:C:1599:MET:HG3	1:C:1601:MET:HE3	1.91	0.51
1:C:4548:ARG:HH21	1:C:4549:VAL:HG12	1.76	0.51
1:A:2881:ASN:HA	1:A:2884:ASN:ND2	2.25	0.51
1:A:2991:HIS:O	1:A:2995:ILE:HG13	2.11	0.51
2:F:37:ASP:OD1	2:F:38:SER:N	2.42	0.51
1:B:877:ASN:HD21	1:B:970:LEU:HB2	1.74	0.51
1:B:4156:HIS:HA	1:B:4161:ARG:HH21	1.74	0.51
1:B:4548:ARG:HH21	1:B:4549:VAL:HG12	1.75	0.51
1:D:877:ASN:HD21	1:D:970:LEU:HB2	1.74	0.51
1:C:647:ASN:OD1	1:C:822:ARG:N	2.39	0.51
1:C:2299:VAL:HG11	1:C:2356:LEU:HB3	1.91	0.51
1:C:3638:MET:HE3	1:C:3638:MET:C	2.34	0.51
1:C:3758:MET:HE3	1:C:4719:PHE:CE1	2.46	0.51
1:A:2821:TRP:HD1	1:A:2939:ARG:HA	1.74	0.51
1:A:3477:LYS:CG	1:B:1141:ARG:NH1	2.73	0.51
1:A:3758:MET:HE3	1:A:4719:PHE:CE1	2.46	0.51
1:A:4717:ASP:OD2	1:A:4723:LYS:NZ	2.42	0.51
1:B:870:ILE:HG13	1:B:1051:TYR:CZ	2.46	0.51
1:B:3598:GLU:O	1:B:3602:VAL:HG23	2.11	0.51
1:D:316:PHE:CD2	1:D:346:CYS:HB3	2.46	0.51
1:D:2587:TYR:CZ	1:D:2591:ARG:HD2	2.45	0.51
1:D:2992:GLU:HA	1:D:2995:ILE:HD12	1.93	0.51
1:D:3604:TYR:O	1:D:3607:GLU:HG3	2.11	0.51
1:D:3754:GLU:HB2	1:D:4718:LYS:HG3	1.91	0.51
1:C:870:ILE:HG13	1:C:1051:TYR:CZ	2.46	0.51
1:C:925:SER:O	1:C:928:THR:OG1	2.20	0.51
1:C:3145:GLN:HG2	1:C:3149:GLN:NE2	2.25	0.51
1:C:3533:ILE:HG13	1:C:3596:VAL:HG13	1.92	0.51
1:C:4244:GLU:HG3	1:C:4668:LEU:HD22	1.92	0.51
1:A:1449:TRP:HB2	1:A:1553:PHE:HB2	1.91	0.51
1:A:2292:GLU:H	1:A:2292:GLU:CD	2.18	0.51
1:A:2992:GLU:HA	1:A:2995:ILE:HD12	1.93	0.51
1:A:3007:ASN:O	1:A:3011:THR:OG1	2.19	0.51
1:A:3106:MET:CE	1:A:3132:THR:HB	2.40	0.51
1:A:3604:TYR:O	1:A:3607:GLU:HG3	2.11	0.51
1:A:4243:PHE:CE2	1:A:4247:ILE:HD11	2.46	0.51
1:B:3729:MET:HB3	1:B:3770:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4243:PHE:CE2	1:B:4247:ILE:HD11	2.46	0.51
1:D:3391:GLU:OE2	1:D:3450:ASN:ND2	2.43	0.51
1:D:3472:ALA:O	1:D:3476:SER:OG	2.25	0.51
1:D:3966:THR:O	1:D:3970:GLN:HB2	2.09	0.51
1:D:4156:HIS:HA	1:D:4161:ARG:HH21	1.75	0.51
1:C:316:PHE:CD2	1:C:346:CYS:HB3	2.46	0.51
1:C:870:ILE:HD12	1:C:1049:TYR:CD2	2.45	0.51
1:C:901:LYS:HG3	1:C:903:LEU:HG	1.91	0.51
1:C:2208:MET:O	1:C:2212:VAL:HG13	2.11	0.51
1:C:2292:GLU:OE1	1:C:2292:GLU:N	2.41	0.51
1:C:3455:GLU:OE1	1:C:3503:TYR:OH	2.29	0.51
1:A:102:LEU:HD11	1:D:3984:ARG:HH22	1.75	0.51
1:A:628:GLY:O	2:E:34:LYS:NZ	2.43	0.51
1:A:3108:GLU:HB3	1:A:3114:LYS:HZ2	1.74	0.51
1:A:3145:GLN:HG2	1:A:3149:GLN:NE2	2.25	0.51
1:A:3455:GLU:OE1	1:A:3503:TYR:OH	2.29	0.51
1:B:1599:MET:HG3	1:B:1601:MET:HE3	1.91	0.51
1:B:2292:GLU:H	1:B:2292:GLU:CD	2.18	0.51
1:D:1228:ILE:HG12	1:C:3571:TRP:CE2	2.46	0.51
1:D:2881:ASN:HA	1:D:2884:ASN:ND2	2.25	0.51
1:D:3449:HIS:CE1	1:D:3453:ARG:HD2	2.45	0.51
1:D:4243:PHE:CE2	1:D:4247:ILE:HD11	2.46	0.51
1:C:2587:TYR:CZ	1:C:2591:ARG:HD2	2.45	0.51
1:C:3590:GLU:O	1:C:3593:VAL:HG22	2.11	0.51
1:C:4217:PHE:O	1:C:4221:VAL:HG22	2.11	0.51
1:B:316:PHE:CE2	1:B:346:CYS:HB3	2.46	0.51
1:B:3936:TYR:CA	1:C:76:ARG:HH12	2.22	0.51
1:C:2876:GLU:O	1:C:2880:GLU:HG3	2.11	0.51
1:C:2992:GLU:HA	1:C:2995:ILE:HD12	1.93	0.51
1:C:3033:ASN:HA	1:C:3036:LYS:HD2	1.92	0.51
1:C:4243:PHE:CE2	1:C:4247:ILE:HD11	2.46	0.51
1:A:870:ILE:HG13	1:A:1051:TYR:CZ	2.46	0.51
1:A:2208:MET:O	1:A:2212:VAL:HG13	2.11	0.51
1:A:3598:GLU:O	1:A:3602:VAL:HG23	2.11	0.51
1:A:4576:ILE:HG21	1:A:4643:LEU:HB2	1.93	0.51
2:F:25:HIS:CD2	2:F:104:LEU:HD11	2.46	0.51
1:B:2876:GLU:O	1:B:2880:GLU:HG3	2.11	0.51
1:B:3033:ASN:HA	1:B:3036:LYS:HD2	1.92	0.51
1:B:3533:ILE:HG13	1:B:3596:VAL:HG13	1.92	0.51
1:D:870:ILE:HG13	1:D:1051:TYR:CZ	2.45	0.51
1:D:2991:HIS:O	1:D:2995:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3455:GLU:OE1	1:D:3503:TYR:OH	2.29	0.51
1:D:4576:ILE:HG21	1:D:4643:LEU:HB2	1.93	0.51
1:C:3896:ASN:OD1	1:C:3899:PHE:HB2	2.11	0.51
1:C:4576:ILE:HG21	1:C:4643:LEU:HB2	1.93	0.51
1:A:316:PHE:CE2	1:A:346:CYS:HB3	2.46	0.51
1:A:689:THR:HG23	1:A:776:LEU:O	2.11	0.51
1:A:728:ARG:NH2	1:A:1489:CYS:SG	2.84	0.51
1:A:1753:LYS:HD3	1:A:1753:LYS:N	2.24	0.51
1:A:4156:HIS:HA	1:A:4161:ARG:HH21	1.74	0.51
1:A:4989:MET:O	1:A:4993:MET:HG3	2.09	0.51
1:B:15:ARG:HG3	1:B:98:HIS:HB3	1.93	0.51
1:B:3129:LEU:O	1:B:3133:THR:HG22	2.10	0.51
1:B:3823:LYS:HE2	1:B:3823:LYS:HA	1.93	0.51
1:B:4745:LEU:H	1:B:4745:LEU:HD12	1.76	0.51
1:D:385:ASP:OD1	1:D:385:ASP:N	2.38	0.51
1:D:2005:GLN:HA	1:D:2008:MET:CE	2.40	0.51
1:D:2208:MET:O	1:D:2212:VAL:HG13	2.11	0.51
1:D:2707:ALA:HB1	1:D:3009:TYR:HD1	1.76	0.51
1:D:3033:ASN:HA	1:D:3036:LYS:HD2	1.92	0.51
1:D:4116:GLU:OE2	1:D:4131:ARG:NH1	2.44	0.51
1:C:3812:VAL:O	1:C:3816:MET:HG3	2.11	0.51
1:A:3129:LEU:O	1:A:3133:THR:HG22	2.10	0.51
1:A:4548:ARG:HH21	1:A:4549:VAL:HG12	1.76	0.51
1:B:316:PHE:CD2	1:B:346:CYS:HB3	2.46	0.51
1:B:421:PHE:HE1	1:B:436:LEU:HD11	1.76	0.51
1:B:2208:MET:O	1:B:2212:VAL:HG13	2.11	0.51
1:B:2299:VAL:HG11	1:B:2356:LEU:HB3	1.91	0.51
1:B:2716:ASP:N	1:B:2716:ASP:OD1	2.44	0.51
1:B:3107:VAL:HG12	1:B:3175:LEU:CD2	2.41	0.51
1:D:316:PHE:CE2	1:D:346:CYS:HB3	2.46	0.51
1:D:3129:LEU:O	1:D:3133:THR:HG22	2.10	0.51
1:D:3354:LEU:HD23	1:D:3415:TYR:CE1	2.46	0.51
1:D:4548:ARG:HH21	1:D:4549:VAL:HG12	1.76	0.51
1:C:3620:TRP:HE3	1:C:3620:TRP:H	1.58	0.51
1:C:3823:LYS:HE2	1:C:3823:LYS:HA	1.93	0.51
1:C:4745:LEU:HD12	1:C:4745:LEU:H	1.76	0.51
1:A:1786:LEU:HG	2:E:82:TYR:HD1	1.76	0.51
1:B:37:LEU:HD12	1:B:191:VAL:HG21	1.93	0.51
1:B:618:GLN:O	1:B:622:THR:HG23	2.10	0.51
1:B:2115:GLU:H	1:B:2115:GLU:CD	2.19	0.51
1:B:2224:ARG:NH1	1:B:2224:ARG:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2707:ALA:HB1	1:B:3009:TYR:HD1	1.76	0.51
1:B:3354:LEU:HD23	1:B:3415:TYR:CE1	2.46	0.51
1:B:3604:TYR:O	1:B:3607:GLU:HG3	2.11	0.51
1:B:3880:PHE:HA	1:B:3883:ASP:OD2	2.11	0.51
1:D:886:ARG:HB3	1:D:891:TRP:HB2	1.93	0.51
1:D:1449:TRP:HB2	1:D:1553:PHE:HB2	1.91	0.51
1:D:2573:GLU:OE2	1:D:2615:ARG:NE	2.44	0.51
1:D:3107:VAL:HG12	1:D:3175:LEU:CD2	2.41	0.51
1:D:4745:LEU:H	1:D:4745:LEU:HD12	1.76	0.51
1:C:37:LEU:HD12	1:C:191:VAL:HG21	1.93	0.51
1:C:1742:THR:HA	1:C:1745:ILE:HD12	1.93	0.51
1:C:3106:MET:CE	1:C:3132:THR:HB	2.40	0.51
1:C:3129:LEU:O	1:C:3133:THR:HG22	2.10	0.51
1:C:3604:TYR:O	1:C:3607:GLU:HG3	2.11	0.51
1:A:316:PHE:CD2	1:A:346:CYS:HB3	2.46	0.50
1:A:421:PHE:HE1	1:A:436:LEU:HD11	1.76	0.50
1:A:3590:GLU:O	1:A:3593:VAL:HG22	2.11	0.50
1:A:3880:PHE:HA	1:A:3883:ASP:OD2	2.11	0.50
2:F:11:ASP:OD2	2:F:12:GLY:N	2.44	0.50
2:F:35:LYS:NZ	2:F:38:SER:HB3	2.25	0.50
1:B:3455:GLU:OE1	1:B:3503:TYR:OH	2.29	0.50
1:B:3590:GLU:O	1:B:3593:VAL:HG22	2.11	0.50
1:B:4244:GLU:HG3	1:B:4668:LEU:HD22	1.92	0.50
1:D:3620:TRP:HE3	1:D:3620:TRP:H	1.58	0.50
1:C:181:HIS:HB3	1:C:194:SER:HB3	1.94	0.50
1:C:316:PHE:CE2	1:C:346:CYS:HB3	2.46	0.50
1:C:861:ILE:HA	1:C:930:LYS:HD2	1.93	0.50
1:C:884:LEU:O	1:C:888:GLU:HG2	2.10	0.50
1:C:886:ARG:HB3	1:C:891:TRP:HB2	1.93	0.50
1:C:2816:MET:HA	1:C:2878:LEU:HD21	1.93	0.50
1:C:3107:VAL:HG12	1:C:3175:LEU:CD2	2.41	0.50
1:C:3354:LEU:HD23	1:C:3415:TYR:CE1	2.46	0.50
1:A:2238:TYR:O	1:A:2242:ILE:HG13	2.12	0.50
1:A:2707:ALA:HB1	1:A:3009:TYR:HD1	1.76	0.50
1:A:4217:PHE:O	1:A:4221:VAL:HG22	2.11	0.50
1:B:181:HIS:HB3	1:B:194:SER:HB3	1.93	0.50
1:B:1449:TRP:HB2	1:B:1553:PHE:HB2	1.91	0.50
1:D:957:LYS:H	1:D:957:LYS:HE2	1.77	0.50
1:D:3880:PHE:HA	1:D:3883:ASP:OD2	2.11	0.50
1:D:4217:PHE:O	1:D:4221:VAL:HG22	2.11	0.50
1:D:4244:GLU:HG3	1:D:4668:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:421:PHE:HE1	1:C:436:LEU:HD11	1.76	0.50
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.47	0.50
1:C:2283:ASN:HB3	1:C:2286:LEU:HB2	1.93	0.50
1:C:4116:GLU:OE2	1:C:4131:ARG:NH1	2.44	0.50
1:A:2115:GLU:H	1:A:2115:GLU:CD	2.19	0.50
1:A:3499:ARG:O	1:A:3499:ARG:NE	2.36	0.50
1:A:4068:LEU:O	1:A:4072:VAL:HG13	2.10	0.50
1:A:4745:LEU:H	1:A:4745:LEU:HD12	1.76	0.50
1:B:256:ALA:HB2	1:B:477:LEU:HD22	1.94	0.50
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.84	0.50
1:B:3896:ASN:OD1	1:B:3899:PHE:HB2	2.11	0.50
1:D:421:PHE:HE1	1:D:436:LEU:HD11	1.76	0.50
1:D:1927:LEU:HD13	1:D:2101:MET:HG3	1.93	0.50
1:D:2816:MET:HA	1:D:2878:LEU:HD21	1.93	0.50
1:D:2876:GLU:O	1:D:2880:GLU:HG3	2.11	0.50
1:D:3106:MET:CE	1:D:3132:THR:HB	2.40	0.50
1:D:3590:GLU:O	1:D:3593:VAL:HG22	2.11	0.50
1:D:3598:GLU:O	1:D:3602:VAL:HG23	2.11	0.50
1:C:3352:GLU:H	1:C:3352:GLU:CD	2.17	0.50
1:A:256:ALA:HB2	1:A:477:LEU:HD22	1.94	0.50
1:A:1478:ASP:HB3	1:A:1482:ASN:HB2	1.94	0.50
1:A:2886:TRP:CH2	1:A:2904:LEU:HB3	2.44	0.50
1:A:3812:VAL:O	1:A:3816:MET:HG3	2.11	0.50
1:B:689:THR:HG23	1:B:776:LEU:O	2.11	0.50
1:B:2010:LEU:HD12	1:B:3656:SER:HB3	1.94	0.50
1:B:2192:TYR:HE1	1:B:2238:TYR:HE1	1.60	0.50
1:B:2886:TRP:CH2	1:B:2904:LEU:HB3	2.43	0.50
1:B:3758:MET:HE3	1:B:4719:PHE:CE1	2.46	0.50
1:B:3812:VAL:O	1:B:3816:MET:HG3	2.11	0.50
1:B:4068:LEU:O	1:B:4072:VAL:HG13	2.10	0.50
1:B:4217:PHE:O	1:B:4221:VAL:HG22	2.11	0.50
1:D:2716:ASP:N	1:D:2716:ASP:OD1	2.44	0.50
1:C:644:ILE:HG12	1:C:783:PHE:HZ	1.77	0.50
1:C:689:THR:HG23	1:C:776:LEU:O	2.11	0.50
1:C:2573:GLU:OE2	1:C:2615:ARG:NE	2.44	0.50
1:C:3391:GLU:OE2	1:C:3450:ASN:ND2	2.43	0.50
1:A:2700:MET:HE3	1:A:2701:PRO:CD	2.42	0.50
1:A:2816:MET:HE1	1:A:2823:ILE:HB	1.94	0.50
1:A:2876:GLU:O	1:A:2880:GLU:HG3	2.11	0.50
1:A:3823:LYS:HA	1:A:3823:LYS:HE2	1.93	0.50
1:B:1478:ASP:HB3	1:B:1482:ASN:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2700:MET:HE3	1:B:2701:PRO:CD	2.42	0.50
1:B:2991:HIS:O	1:B:2995:ILE:HG13	2.11	0.50
1:D:15:ARG:HG3	1:D:98:HIS:HB3	1.93	0.50
1:D:37:LEU:HD12	1:D:191:VAL:HG21	1.93	0.50
1:D:151:HIS:O	1:D:170:ILE:HG22	2.11	0.50
1:D:728:ARG:NH2	1:D:1489:CYS:SG	2.84	0.50
1:D:2224:ARG:NH1	1:D:2224:ARG:HB2	2.26	0.50
1:D:2238:TYR:HD2	1:D:2241:ARG:HB2	1.77	0.50
1:D:3896:ASN:OD1	1:D:3899:PHE:HB2	2.11	0.50
1:D:4010:ILE:O	1:D:4014:LYS:HG3	2.12	0.50
1:D:4157:ASP:OD2	1:D:4160:LEU:N	2.39	0.50
1:D:4730:ASP:OD1	1:D:4731:ILE:N	2.45	0.50
1:C:728:ARG:NH2	1:C:1489:CYS:SG	2.84	0.50
1:C:957:LYS:HE2	1:C:957:LYS:H	1.77	0.50
1:C:1618:ARG:HB3	1:C:1618:ARG:NH1	2.27	0.50
1:C:2238:TYR:O	1:C:2242:ILE:HG13	2.12	0.50
1:A:15:ARG:HG3	1:A:98:HIS:HB3	1.93	0.50
1:A:957:LYS:H	1:A:957:LYS:HE2	1.77	0.50
1:A:1465:ASP:OD1	1:A:1468:LYS:N	2.39	0.50
1:A:3107:VAL:HG12	1:A:3175:LEU:CD2	2.41	0.50
1:A:3896:ASN:OD1	1:A:3899:PHE:HB2	2.11	0.50
1:A:4244:GLU:HG3	1:A:4668:LEU:HD22	1.92	0.50
1:A:4730:ASP:OD1	1:A:4731:ILE:N	2.45	0.50
1:B:1422:ASP:OD1	1:B:1571:ASN:N	2.39	0.50
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.46	0.50
1:B:4010:ILE:O	1:B:4014:LYS:HG3	2.12	0.50
1:D:3034:LYS:HZ1	1:D:3038:MET:HG3	1.76	0.50
1:D:3873:LYS:HD3	1:D:3873:LYS:N	2.27	0.50
1:C:2224:ARG:NH1	1:C:2224:ARG:HB2	2.26	0.50
1:C:2991:HIS:O	1:C:2995:ILE:HG13	2.11	0.50
1:A:2573:GLU:OE2	1:A:2615:ARG:NE	2.44	0.50
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.44	0.50
1:A:4681:LEU:HD11	1:A:4706:LEU:HD22	1.94	0.50
2:H:37:ASP:OD1	2:H:38:SER:N	2.45	0.50
1:B:151:HIS:O	1:B:170:ILE:HG22	2.11	0.50
1:B:2238:TYR:HD2	1:B:2241:ARG:HB2	1.77	0.50
1:B:2238:TYR:O	1:B:2242:ILE:HG13	2.12	0.50
1:D:689:THR:HG23	1:D:776:LEU:O	2.11	0.50
1:D:1115:LEU:HD12	1:D:1193:SER:HB3	1.94	0.50
1:D:1618:ARG:NH1	1:D:1618:ARG:HB3	2.27	0.50
1:D:2238:TYR:O	1:D:2242:ILE:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2340:PHE:CD1	1:D:2435:ARG:HD3	2.47	0.50
1:D:2700:MET:HE3	1:D:2701:PRO:CD	2.42	0.50
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.12	0.50
1:D:3948:LYS:HD3	1:D:4012:LEU:HD22	1.94	0.50
1:C:384:MET:HE2	1:C:384:MET:N	2.18	0.50
1:C:2010:LEU:HD12	1:C:3656:SER:HB3	1.94	0.50
1:A:181:HIS:HB3	1:A:194:SER:HB3	1.94	0.50
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.47	0.50
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.12	0.50
1:A:2192:TYR:HE1	1:A:2238:TYR:HE1	1.60	0.50
1:A:2224:ARG:NH1	1:A:2224:ARG:HB2	2.26	0.50
1:A:2886:TRP:O	1:A:2889:LYS:HG2	2.12	0.50
1:A:3354:LEU:HD23	1:A:3415:TYR:CE1	2.46	0.50
1:A:3405:LEU:HD21	1:A:3510:ILE:HG23	1.94	0.50
1:A:4010:ILE:O	1:A:4014:LYS:HG3	2.12	0.50
1:B:952:LYS:HE2	1:B:970:LEU:HG	1.94	0.50
1:B:957:LYS:H	1:B:957:LYS:HE2	1.77	0.50
1:B:3405:LEU:HD21	1:B:3510:ILE:HG23	1.94	0.50
1:B:3592:ILE:HA	1:B:3595:ARG:HE	1.77	0.50
1:B:4116:GLU:OE2	1:B:4131:ARG:NH1	2.44	0.50
1:B:4730:ASP:OD1	1:B:4731:ILE:N	2.45	0.50
1:D:1742:THR:HA	1:D:1745:ILE:HD12	1.93	0.50
1:D:2283:ASN:HB3	1:D:2286:LEU:HB2	1.93	0.50
1:D:3683:GLN:HA	1:D:3686:GLU:HB2	1.94	0.50
1:C:151:HIS:O	1:C:170:ILE:HG22	2.11	0.50
1:C:2340:PHE:CD1	1:C:2435:ARG:HD3	2.47	0.50
1:C:3598:GLU:O	1:C:3602:VAL:HG23	2.10	0.50
1:C:4730:ASP:OD1	1:C:4731:ILE:N	2.45	0.50
1:A:1618:ARG:NH1	1:A:1618:ARG:HB3	2.27	0.50
1:A:3244:PRO:HG2	1:A:3249:LEU:HD13	1.94	0.50
1:A:3628:ARG:HH11	1:A:3628:ARG:HA	1.77	0.50
1:A:3683:GLN:HA	1:A:3686:GLU:HB2	1.94	0.50
1:B:923:GLN:O	1:B:927:GLU:HG2	2.12	0.50
1:B:2292:GLU:OE1	1:B:2292:GLU:N	2.41	0.50
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.94	0.50
1:B:3145:GLN:HG2	1:B:3149:GLN:NE2	2.25	0.50
1:B:3550:ARG:HG3	1:B:3597:GLN:HG3	1.94	0.50
1:B:4681:LEU:HD11	1:B:4706:LEU:HD22	1.94	0.50
1:D:181:HIS:HB3	1:D:194:SER:HB3	1.94	0.50
1:D:923:GLN:O	1:D:927:GLU:HG2	2.11	0.50
1:D:2019:GLU:N	1:D:2019:GLU:OE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2792:ARG:HH21	1:D:2798:SER:H	1.59	0.50
1:D:2886:TRP:O	1:D:2889:LYS:HG2	2.12	0.50
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.12	0.50
1:D:3812:VAL:O	1:D:3816:MET:HG3	2.11	0.50
1:D:3823:LYS:HA	1:D:3823:LYS:HE2	1.93	0.50
1:C:1927:LEU:HD13	1:C:2101:MET:HG3	1.93	0.50
1:C:3256:LEU:HD22	1:C:3266:MET:HG3	1.94	0.50
1:A:2867:LEU:HD23	1:A:2872:GLN:HG3	1.94	0.49
1:A:3620:TRP:HE3	1:A:3620:TRP:H	1.58	0.49
1:B:2867:LEU:HD23	1:B:2872:GLN:HG3	1.94	0.49
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.12	0.49
1:B:4576:ILE:HG21	1:B:4643:LEU:HB2	1.93	0.49
1:D:3628:ARG:HH11	1:D:3628:ARG:HA	1.77	0.49
1:D:4681:LEU:HD11	1:D:4706:LEU:HD22	1.94	0.49
1:C:955:LEU:HD13	1:C:967:PRO:HD2	1.94	0.49
1:C:1115:LEU:HD12	1:C:1193:SER:HB3	1.94	0.49
1:C:1478:ASP:HB3	1:C:1482:ASN:HB2	1.94	0.49
1:C:2192:TYR:HE1	1:C:2238:TYR:HE1	1.60	0.49
1:C:3592:ILE:HA	1:C:3595:ARG:HE	1.77	0.49
1:A:151:HIS:O	1:A:170:ILE:HG22	2.11	0.49
1:A:886:ARG:HB3	1:A:891:TRP:HB2	1.93	0.49
1:A:1742:THR:HA	1:A:1745:ILE:HD12	1.93	0.49
1:A:2292:GLU:OE1	1:A:2292:GLU:N	2.41	0.49
1:A:4116:GLU:OE2	1:A:4131:ARG:NH1	2.44	0.49
1:B:1112:ASP:OD1	1:B:1112:ASP:N	2.44	0.49
1:B:1927:LEU:HD13	1:B:2101:MET:HG3	1.93	0.49
1:B:2573:GLU:OE2	1:B:2615:ARG:NE	2.44	0.49
1:B:4543:GLU:HA	1:B:4546:VAL:HG12	1.93	0.49
1:D:1958:LEU:HD23	1:D:2138:LEU:HD21	1.95	0.49
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.46	0.49
1:D:3007:ASN:O	1:D:3011:THR:OG1	2.19	0.49
1:D:4717:ASP:OD2	1:D:4723:LYS:NZ	2.43	0.49
1:C:2490:MET:HE1	1:C:2546:MET:CE	2.43	0.49
1:C:2707:ALA:HB1	1:C:3009:TYR:HD1	1.76	0.49
1:C:3948:LYS:HD3	1:C:4012:LEU:HD22	1.94	0.49
1:A:923:GLN:O	1:A:927:GLU:HG2	2.12	0.49
1:A:1115:LEU:HD12	1:A:1193:SER:HB3	1.94	0.49
1:A:2920:ARG:O	1:A:2924:GLN:HG2	2.12	0.49
2:H:11:ASP:OD2	2:H:12:GLY:N	2.45	0.49
2:G:37:ASP:OD1	2:G:38:SER:N	2.45	0.49
1:B:644:ILE:HG12	1:B:783:PHE:HZ	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3244:PRO:HG2	1:B:3249:LEU:HD13	1.94	0.49
1:B:3620:TRP:H	1:B:3620:TRP:HE3	1.58	0.49
1:D:384:MET:HE2	1:D:384:MET:N	2.18	0.49
1:D:2115:GLU:CD	1:D:2115:GLU:H	2.19	0.49
1:D:2816:MET:HE1	1:D:2823:ILE:HB	1.94	0.49
1:C:463:GLU:OE2	1:C:463:GLU:N	2.29	0.49
1:C:3628:ARG:HA	1:C:3628:ARG:HH11	1.77	0.49
1:C:4681:LEU:HD11	1:C:4706:LEU:HD22	1.94	0.49
1:A:37:LEU:HD12	1:A:191:VAL:HG21	1.93	0.49
1:A:955:LEU:HD13	1:A:967:PRO:HD2	1.94	0.49
1:A:1927:LEU:HD13	1:A:2101:MET:HG3	1.93	0.49
1:A:1958:LEU:HD23	1:A:2138:LEU:HD21	1.95	0.49
1:A:2238:TYR:HD2	1:A:2241:ARG:HB2	1.77	0.49
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.12	0.49
1:A:3592:ILE:HA	1:A:3595:ARG:HE	1.77	0.49
1:B:20:VAL:HG12	1:B:204:PRO:HA	1.94	0.49
1:B:180:LEU:HD23	1:B:200:TRP:CE2	2.48	0.49
1:B:955:LEU:HD13	1:B:967:PRO:HD2	1.94	0.49
1:B:1270:LEU:HB2	1:B:1564:PHE:HB2	1.94	0.49
1:B:1575:LEU:HG	1:B:1579:MET:HE3	1.95	0.49
1:B:2816:MET:HA	1:B:2878:LEU:HD21	1.93	0.49
1:B:2886:TRP:O	1:B:2889:LYS:HG2	2.12	0.49
1:B:3256:LEU:HD22	1:B:3266:MET:HG3	1.94	0.49
1:B:3628:ARG:HA	1:B:3628:ARG:HH11	1.77	0.49
1:D:644:ILE:HG12	1:D:783:PHE:HZ	1.77	0.49
1:D:1478:ASP:HB3	1:D:1482:ASN:HB2	1.94	0.49
1:D:2192:TYR:HE1	1:D:2238:TYR:HE1	1.60	0.49
1:D:2867:LEU:HD23	1:D:2872:GLN:HG3	1.95	0.49
1:C:952:LYS:HE2	1:C:970:LEU:HG	1.94	0.49
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.94	0.49
1:A:257:ARG:O	1:A:284:HIS:NE2	2.28	0.49
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.94	0.49
1:A:2816:MET:HA	1:A:2878:LEU:HD21	1.93	0.49
1:A:3948:LYS:HD3	1:A:4012:LEU:HD22	1.94	0.49
1:B:1753:LYS:HD3	1:B:1753:LYS:N	2.24	0.49
1:B:3683:GLN:HA	1:B:3686:GLU:HB2	1.94	0.49
1:D:180:LEU:HD23	1:D:200:TRP:CE2	2.48	0.49
1:D:4926:VAL:HG13	1:C:4933:GLN:HG3	1.95	0.49
1:C:2005:GLN:HA	1:C:2008:MET:CE	2.40	0.49
1:C:2792:ARG:HH21	1:C:2798:SER:H	1.59	0.49
1:C:2825:LYS:HB3	1:C:2935:TYR:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3244:PRO:HG2	1:C:3249:LEU:HD13	1.94	0.49
1:C:3683:GLN:HA	1:C:3686:GLU:HB2	1.94	0.49
1:A:180:LEU:HD23	1:A:200:TRP:CE2	2.48	0.49
1:A:952:LYS:HE2	1:A:970:LEU:HG	1.94	0.49
1:A:4926:VAL:CG1	1:D:4933:GLN:HG3	2.43	0.49
2:E:25:HIS:CD2	2:E:104:LEU:HD11	2.47	0.49
1:B:13:PHE:CD1	1:B:162:LYS:HG3	2.48	0.49
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	1.94	0.49
1:B:1759:ARG:HA	1:B:1759:ARG:CZ	2.43	0.49
1:B:2283:ASN:HB3	1:B:2286:LEU:HB2	1.93	0.49
1:B:3948:LYS:HD3	1:B:4012:LEU:HD22	1.94	0.49
1:B:4933:GLN:HG3	1:C:4926:VAL:HG13	1.94	0.49
1:D:73:LEU:O	1:D:106:ALA:N	2.28	0.49
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.12	0.49
1:D:2825:LYS:HB3	1:D:2935:TYR:HA	1.95	0.49
1:D:3256:LEU:HD22	1:D:3266:MET:HG3	1.94	0.49
1:D:3592:ILE:HA	1:D:3595:ARG:HE	1.77	0.49
1:D:3707:ARG:O	1:D:3711:THR:HG23	2.13	0.49
1:D:4543:GLU:HA	1:D:4546:VAL:HG12	1.93	0.49
1:C:426:ARG:NH1	1:C:509:GLU:OE1	2.34	0.49
1:C:923:GLN:O	1:C:927:GLU:HG2	2.11	0.49
1:C:2867:LEU:HD23	1:C:2872:GLN:HG3	1.95	0.49
1:C:3235:SER:OG	1:C:3237:GLU:OE1	2.30	0.49
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.12	0.49
1:C:3880:PHE:HA	1:C:3883:ASP:OD2	2.11	0.49
1:A:1076:ARG:HB3	1:A:1191:VAL:HG23	1.95	0.49
1:A:4867:GLU:OE1	1:A:4867:GLU:N	2.37	0.49
2:E:60:GLU:OE1	2:E:60:GLU:HA	2.13	0.49
1:B:965:TYR:HD1	1:B:966:LYS:N	2.11	0.49
1:B:1057:ASP:OD1	1:B:1057:ASP:N	2.39	0.49
1:B:1076:ARG:HB3	1:B:1191:VAL:HG23	1.95	0.49
1:D:13:PHE:CD1	1:D:162:LYS:HG3	2.48	0.49
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.12	0.49
1:C:2700:MET:HE3	1:C:2701:PRO:CD	2.42	0.49
1:C:2886:TRP:O	1:C:2889:LYS:HG2	2.12	0.49
1:C:3873:LYS:HD3	1:C:3873:LYS:N	2.27	0.49
1:A:13:PHE:CD1	1:A:162:LYS:HG3	2.48	0.49
1:A:861:ILE:HA	1:A:930:LYS:HD2	1.93	0.49
1:A:2010:LEU:HD12	1:A:3656:SER:HB3	1.94	0.49
1:A:3434:LEU:HA	1:A:3437:MET:HE3	1.95	0.49
1:B:861:ILE:HA	1:B:930:LYS:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1618:ARG:HB3	1:B:1618:ARG:NH1	2.27	0.49
1:B:2019:GLU:OE1	1:B:2019:GLU:N	2.45	0.49
1:B:2490:MET:HE1	1:B:2546:MET:CE	2.42	0.49
1:B:3391:GLU:OE2	1:B:3450:ASN:ND2	2.43	0.49
1:D:861:ILE:HA	1:D:930:LYS:HD2	1.93	0.49
1:D:1076:ARG:HB3	1:D:1191:VAL:HG23	1.95	0.49
1:D:1448:VAL:HG22	1:D:1554:VAL:HG23	1.95	0.49
1:D:2495:VAL:HG12	1:D:2497:ASP:H	1.78	0.49
1:C:13:PHE:CD1	1:C:162:LYS:HG3	2.48	0.49
1:C:1270:LEU:HB2	1:C:1564:PHE:HB2	1.94	0.49
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.12	0.49
1:C:3405:LEU:HD21	1:C:3510:ILE:HG23	1.94	0.49
1:A:404:ILE:HG23	1:A:483:MET:HE3	1.95	0.49
1:A:1994:ARG:CZ	1:A:1994:ARG:HA	2.43	0.49
1:A:2340:PHE:CD1	1:A:2435:ARG:HD3	2.47	0.49
1:A:2495:VAL:HG12	1:A:2497:ASP:H	1.78	0.49
1:A:3256:LEU:HD22	1:A:3266:MET:HG3	1.94	0.49
1:A:3550:ARG:HG3	1:A:3597:GLN:HG3	1.94	0.49
1:B:1115:LEU:HD12	1:B:1193:SER:HB3	1.94	0.49
1:B:1819:VAL:HA	1:B:1929:MET:HE1	1.95	0.49
1:B:2005:GLN:HA	1:B:2008:MET:CE	2.40	0.49
1:B:2495:VAL:HG12	1:B:2497:ASP:H	1.78	0.49
1:D:965:TYR:HD1	1:D:966:LYS:N	2.11	0.49
1:C:1575:LEU:HG	1:C:1579:MET:HE3	1.95	0.49
1:C:1958:LEU:HD23	1:C:2138:LEU:HD21	1.95	0.49
1:C:2115:GLU:H	1:C:2115:GLU:CD	2.19	0.49
1:C:3211:ASN:OD1	1:C:3212:GLU:N	2.46	0.49
1:A:869:ARG:HD2	1:A:870:ILE:N	2.28	0.49
1:A:2283:ASN:HB3	1:A:2286:LEU:HB2	1.93	0.49
1:A:2792:ARG:HH21	1:A:2798:SER:H	1.59	0.49
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.12	0.49
1:A:4543:GLU:HA	1:A:4546:VAL:HG12	1.93	0.49
1:B:404:ILE:HG23	1:B:483:MET:HE3	1.95	0.49
1:B:886:ARG:HB3	1:B:891:TRP:HB2	1.93	0.49
1:B:1958:LEU:HD23	1:B:2138:LEU:HD21	1.94	0.49
1:B:2792:ARG:HH21	1:B:2798:SER:H	1.59	0.49
1:B:2825:LYS:HB3	1:B:2935:TYR:HA	1.95	0.49
1:B:3434:LEU:HA	1:B:3437:MET:HE3	1.95	0.49
1:D:1089:TYR:HD1	1:D:1152:MET:HG3	1.78	0.49
1:D:2920:ARG:O	1:D:2924:GLN:HG2	2.12	0.49
1:D:3235:SER:OG	1:D:3237:GLU:OE1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.46	0.49
1:C:15:ARG:HG3	1:C:98:HIS:HB3	1.93	0.49
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.94	0.49
1:C:78:LEU:O	1:C:81:MET:HG3	2.13	0.49
1:C:2238:TYR:HD2	1:C:2241:ARG:HB2	1.77	0.49
1:C:3332:ALA:HB1	1:C:3334:TRP:CD1	2.48	0.49
1:A:78:LEU:O	1:A:81:MET:HG3	2.13	0.48
1:B:647:ASN:OD1	1:B:822:ARG:N	2.39	0.48
1:B:1742:THR:HA	1:B:1745:ILE:HD12	1.93	0.48
1:B:2340:PHE:CD1	1:B:2435:ARG:HD3	2.47	0.48
1:D:256:ALA:HB2	1:D:477:LEU:HD22	1.93	0.48
1:D:2010:LEU:HD12	1:D:3656:SER:HB3	1.94	0.48
1:D:3332:ALA:HB1	1:D:3334:TRP:CD1	2.48	0.48
1:D:3621:HIS:O	1:D:3622:LYS:HG3	2.13	0.48
1:C:4157:ASP:OD2	1:C:4160:LEU:N	2.39	0.48
1:C:4184:MET:HE3	1:C:4184:MET:C	2.38	0.48
1:C:4543:GLU:HA	1:C:4546:VAL:HG12	1.93	0.48
1:A:2138:LEU:HB3	1:A:3658:LYS:HE3	1.95	0.48
1:B:1228:ILE:HG22	1:B:1827:ARG:HH21	1.79	0.48
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.12	0.48
1:B:3707:ARG:O	1:B:3711:THR:HG23	2.13	0.48
1:D:234:SER:OG	1:D:238:SER:OG	2.24	0.48
1:D:323:LEU:HB3	1:D:325:THR:HG23	1.95	0.48
1:D:952:LYS:HE2	1:D:970:LEU:HG	1.94	0.48
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	1.94	0.48
1:D:1759:ARG:HA	1:D:1759:ARG:CZ	2.43	0.48
1:D:2138:LEU:HB3	1:D:3658:LYS:HE3	1.95	0.48
1:C:180:LEU:HD23	1:C:200:TRP:CE2	2.48	0.48
1:C:1994:ARG:CZ	1:C:1994:ARG:HA	2.43	0.48
1:C:3707:ARG:O	1:C:3711:THR:HG23	2.13	0.48
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.94	0.48
1:A:965:TYR:HD1	1:A:966:LYS:N	2.11	0.48
1:A:1228:ILE:HG22	1:A:1827:ARG:HH21	1.79	0.48
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.13	0.48
1:A:3235:SER:OG	1:A:3237:GLU:OE1	2.30	0.48
1:A:3529:ASP:OD2	1:A:3592:ILE:HG23	2.14	0.48
1:A:4184:MET:HE3	1:A:4184:MET:C	2.38	0.48
1:B:828:GLU:OE1	1:B:828:GLU:N	2.41	0.48
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.46	0.48
1:B:4157:ASP:OD2	1:B:4160:LEU:N	2.39	0.48
1:B:4184:MET:HE3	1:B:4184:MET:C	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:VAL:HG12	1:D:204:PRO:HA	1.94	0.48
1:D:404:ILE:HG23	1:D:483:MET:HE3	1.95	0.48
1:D:869:ARG:HD2	1:D:870:ILE:N	2.28	0.48
1:D:925:SER:O	1:D:928:THR:OG1	2.20	0.48
1:D:3211:ASN:OD1	1:D:3212:GLU:N	2.46	0.48
1:D:3244:PRO:HG2	1:D:3249:LEU:HD13	1.94	0.48
1:D:3405:LEU:HD21	1:D:3510:ILE:HG23	1.94	0.48
1:C:256:ALA:HB2	1:C:477:LEU:HD22	1.94	0.48
1:C:323:LEU:HB3	1:C:325:THR:HG23	1.96	0.48
1:C:965:TYR:HD1	1:C:966:LYS:N	2.11	0.48
1:C:1076:ARG:HB3	1:C:1191:VAL:HG23	1.95	0.48
1:C:1759:ARG:CZ	1:C:1759:ARG:HA	2.43	0.48
1:C:2965:ARG:HE	1:C:2969:ILE:HD11	1.78	0.48
1:C:3550:ARG:HG3	1:C:3597:GLN:HG3	1.94	0.48
1:C:4010:ILE:O	1:C:4014:LYS:HG3	2.12	0.48
1:A:644:ILE:HG12	1:A:783:PHE:HZ	1.77	0.48
1:A:772:ASN:HD21	1:A:1470:ARG:HA	1.79	0.48
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.94	0.48
1:A:2358:ILE:HB	1:B:195:PHE:CE1	2.48	0.48
1:A:3873:LYS:N	1:A:3873:LYS:HD3	2.27	0.48
1:A:4687:TYR:OH	1:A:4699:GLY:O	2.20	0.48
2:E:79:ASP:OD2	2:E:79:ASP:N	2.46	0.48
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.13	0.48
1:B:2816:MET:HE1	1:B:2823:ILE:HB	1.94	0.48
1:B:2920:ARG:O	1:B:2924:GLN:HG2	2.12	0.48
1:B:3235:SER:OG	1:B:3237:GLU:OE1	2.30	0.48
1:D:2490:MET:HE1	1:D:2546:MET:CE	2.43	0.48
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.94	0.48
1:C:308:HIS:CE1	1:C:311:ALA:H	2.32	0.48
1:C:1228:ILE:HG22	1:C:1827:ARG:HH21	1.79	0.48
1:C:2019:GLU:OE1	1:C:2019:GLU:N	2.45	0.48
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.44	0.48
1:C:2816:MET:HE1	1:C:2823:ILE:HB	1.94	0.48
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.46	0.48
1:A:925:SER:O	1:A:928:THR:OG1	2.20	0.48
1:A:1089:TYR:HD1	1:A:1152:MET:HG3	1.78	0.48
1:A:2825:LYS:HB3	1:A:2935:TYR:HA	1.95	0.48
1:A:3211:ASN:OD1	1:A:3212:GLU:N	2.46	0.48
2:E:23:VAL:HG12	2:E:104:LEU:HB2	1.96	0.48
1:B:1727:ARG:HD3	1:B:1727:ARG:HA	1.62	0.48
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.12	0.48
1:B:3532:LEU:HB3	1:B:3596:VAL:HG11	1.95	0.48
1:B:3873:LYS:HD3	1:B:3873:LYS:N	2.27	0.48
1:D:3233:PRO:HB3	1:D:3238:GLU:HB3	1.95	0.48
1:D:3550:ARG:HG3	1:D:3597:GLN:HG3	1.94	0.48
1:D:4910:GLU:O	1:D:4914:VAL:HG13	2.14	0.48
1:C:78:LEU:O	1:C:82:LEU:HG	2.14	0.48
1:C:404:ILE:HG23	1:C:483:MET:HE3	1.95	0.48
1:C:1062:GLN:NE2	1:C:1064:GLU:OE1	2.40	0.48
1:C:1089:TYR:HD1	1:C:1152:MET:HG3	1.78	0.48
1:C:2920:ARG:O	1:C:2924:GLN:HG2	2.12	0.48
1:C:3034:LYS:HZ1	1:C:3038:MET:HG3	1.79	0.48
1:C:3655:GLU:HA	1:C:3658:LYS:NZ	2.29	0.48
1:C:4131:ARG:HG2	1:C:4132:PHE:CE2	2.49	0.48
1:A:1575:LEU:HG	1:A:1579:MET:HE3	1.94	0.48
1:A:1759:ARG:CZ	1:A:1759:ARG:HA	2.43	0.48
1:B:308:HIS:CE1	1:B:311:ALA:H	2.31	0.48
1:B:869:ARG:HD2	1:B:870:ILE:N	2.28	0.48
1:B:3089:LYS:O	1:B:3093:ARG:HG3	2.14	0.48
1:B:3472:ALA:O	1:B:3476:SER:OG	2.25	0.48
1:B:3621:HIS:O	1:B:3622:LYS:HG3	2.13	0.48
1:B:3655:GLU:HA	1:B:3658:LYS:NZ	2.28	0.48
1:D:772:ASN:HD21	1:D:1470:ARG:HA	1.79	0.48
1:D:955:LEU:HD13	1:D:967:PRO:HD2	1.94	0.48
1:D:1228:ILE:HG22	1:D:1827:ARG:HH21	1.79	0.48
1:D:1270:LEU:HB2	1:D:1564:PHE:HB2	1.94	0.48
1:D:1575:LEU:HG	1:D:1579:MET:HE3	1.95	0.48
1:C:220:LEU:HD21	1:C:262:LEU:HD21	1.96	0.48
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.94	0.48
1:C:2285:GLU:H	1:C:2285:GLU:CD	2.18	0.48
1:C:2495:VAL:HG12	1:C:2497:ASP:H	1.78	0.48
1:C:2522:LEU:HB2	1:C:2578:MET:HE1	1.96	0.48
1:A:264:PRO:HB2	1:A:266:ARG:HG2	1.96	0.48
1:A:3621:HIS:O	1:A:3622:LYS:HG3	2.13	0.48
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.14	0.48
2:G:11:ASP:OD2	2:G:12:GLY:N	2.46	0.48
2:F:79:ASP:OD2	2:F:79:ASP:N	2.47	0.48
1:B:1062:GLN:NE2	1:B:1064:GLU:OE1	2.40	0.48
1:B:1994:ARG:HA	1:B:1994:ARG:CZ	2.43	0.48
1:B:4131:ARG:HG2	1:B:4132:PHE:CE2	2.49	0.48
1:B:4910:GLU:O	1:B:4914:VAL:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1994:ARG:CZ	1:D:1994:ARG:HA	2.43	0.48
1:D:2755:ILE:HG22	1:D:2809:ILE:HG22	1.96	0.48
1:D:2825:LYS:HB2	1:D:2827:ARG:HE	1.79	0.48
1:D:2965:ARG:HE	1:D:2969:ILE:HD11	1.78	0.48
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.95	0.48
1:C:2138:LEU:HB3	1:C:3658:LYS:HE3	1.95	0.48
1:A:2019:GLU:OE1	1:A:2019:GLU:N	2.45	0.48
1:A:2825:LYS:HB2	1:A:2827:ARG:HE	1.79	0.48
1:A:3332:ALA:HB1	1:A:3334:TRP:CD1	2.48	0.48
1:A:3573:MET:HG3	1:A:3577:ARG:NH2	2.29	0.48
1:A:3707:ARG:O	1:A:3711:THR:HG23	2.13	0.48
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.46	0.48
1:A:4888:TYR:OH	1:B:4917:ASP:OD2	2.29	0.48
1:B:234:SER:OG	1:B:238:SER:OG	2.24	0.48
1:B:772:ASN:HD21	1:B:1470:ARG:HA	1.79	0.48
1:B:2522:LEU:HB2	1:B:2578:MET:HE1	1.96	0.48
1:B:3211:ASN:OD1	1:B:3212:GLU:N	2.46	0.48
1:D:188:GLU:OE1	1:D:188:GLU:N	2.39	0.48
1:D:296:ASP:OD2	1:D:296:ASP:N	2.40	0.48
1:D:643:SER:OG	1:D:826:ILE:HD12	2.14	0.48
1:D:1163:THR:HG22	1:D:1168:VAL:HA	1.96	0.48
1:D:1422:ASP:OD1	1:D:1571:ASN:N	2.39	0.48
1:D:1585:LYS:HE2	1:D:1585:LYS:HA	1.96	0.48
1:D:3089:LYS:O	1:D:3093:ARG:HG3	2.14	0.48
1:D:3262:ARG:HD3	1:D:3262:ARG:HA	1.66	0.48
1:D:3434:LEU:HA	1:D:3437:MET:HE3	1.95	0.48
1:D:3529:ASP:OD2	1:D:3592:ILE:HG23	2.14	0.48
1:D:4184:MET:HE3	1:D:4184:MET:C	2.38	0.48
1:C:1753:LYS:NZ	1:C:1759:ARG:HG2	2.29	0.48
1:C:1819:VAL:HA	1:C:1929:MET:HE1	1.95	0.48
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.14	0.48
1:C:2527:LEU:HD21	1:C:2582:MET:HB2	1.96	0.48
1:C:3354:LEU:HD23	1:C:3415:TYR:CZ	2.49	0.48
1:A:78:LEU:O	1:A:82:LEU:HG	2.14	0.48
1:A:1112:ASP:N	1:A:1112:ASP:OD1	2.44	0.48
1:A:1270:LEU:HB2	1:A:1564:PHE:HB2	1.94	0.48
1:A:1448:VAL:HG22	1:A:1554:VAL:HG23	1.95	0.48
1:A:1479:GLU:H	1:A:1479:GLU:CD	2.22	0.48
1:A:2740:VAL:HG21	1:A:2819:TRP:HE1	1.79	0.48
1:A:3532:LEU:HB3	1:A:3596:VAL:HG11	1.95	0.48
2:G:60:GLU:HA	2:G:60:GLU:OE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:SER:OG	1:B:785:ALA:N	2.47	0.48
1:B:1566:LEU:HD23	1:B:1575:LEU:HD23	1.96	0.48
1:B:3332:ALA:HB1	1:B:3334:TRP:CD1	2.48	0.48
1:D:308:HIS:CE1	1:D:311:ALA:H	2.32	0.48
1:D:1753:LYS:HD3	1:D:1753:LYS:N	2.24	0.48
1:D:1997:GLU:HB2	1:D:2008:MET:CE	2.44	0.48
1:D:2527:LEU:HD21	1:D:2582:MET:HB2	1.96	0.48
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.14	0.48
1:C:772:ASN:HD21	1:C:1470:ARG:HA	1.79	0.48
1:C:869:ARG:HD2	1:C:870:ILE:N	2.28	0.48
1:C:3089:LYS:O	1:C:3093:ARG:HG3	2.14	0.48
1:C:3573:MET:HG3	1:C:3577:ARG:NH2	2.29	0.48
1:C:4581:LYS:HG2	1:C:4633:GLU:HB2	1.96	0.48
1:A:220:LEU:HD21	1:A:262:LEU:HD21	1.96	0.48
1:A:323:LEU:HB3	1:A:325:THR:HG23	1.95	0.48
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.47	0.48
1:A:2490:MET:HE1	1:A:2546:MET:CE	2.43	0.48
2:G:90:ILE:HD12	1:C:1687:SER:CB	2.44	0.48
1:B:135:VAL:HG21	1:B:180:LEU:HD12	1.96	0.48
1:B:1089:TYR:HD1	1:B:1152:MET:HG3	1.78	0.48
1:B:3233:PRO:HB3	1:B:3238:GLU:HB3	1.95	0.48
1:B:3529:ASP:OD2	1:B:3592:ILE:HG23	2.14	0.48
1:D:76:ARG:NH2	1:C:3936:TYR:HA	2.24	0.48
1:D:78:LEU:O	1:D:81:MET:HG3	2.13	0.48
1:D:125:ARG:HD3	1:D:134:ASP:OD1	2.14	0.48
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.95	0.48
1:D:1819:VAL:HA	1:D:1929:MET:HE1	1.95	0.48
1:D:3526:ALA:O	1:D:3529:ASP:HB2	2.14	0.48
1:C:828:GLU:OE1	1:C:828:GLU:N	2.41	0.48
1:C:1422:ASP:OD1	1:C:1571:ASN:N	2.39	0.48
1:C:1997:GLU:HB2	1:C:2008:MET:CE	2.44	0.48
1:C:2218:GLY:HA3	1:C:2221:LYS:HE2	1.96	0.48
1:C:3621:HIS:O	1:C:3622:LYS:HG3	2.14	0.48
1:C:4910:GLU:O	1:C:4914:VAL:HG13	2.14	0.48
1:C:5000:GLU:OE1	1:C:5000:GLU:N	2.44	0.48
1:A:867:LEU:HD12	1:A:929:LEU:HD23	1.96	0.47
1:A:1566:LEU:HD23	1:A:1575:LEU:HD23	1.96	0.47
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.47	0.47
1:A:2715:VAL:HG13	1:A:2953:LYS:HB3	1.96	0.47
1:A:3070:ILE:O	1:A:3074:SER:OG	2.28	0.47
1:A:4101:LYS:HD3	1:B:4730:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:44:LYS:NZ	2:G:44:LYS:HB3	2.29	0.47
1:B:264:PRO:HB2	1:B:266:ARG:HG2	1.96	0.47
1:B:266:ARG:O	1:B:270:SER:OG	2.32	0.47
1:B:1585:LYS:HA	1:B:1585:LYS:HE2	1.96	0.47
1:B:1997:GLU:HB2	1:B:2008:MET:CE	2.44	0.47
1:B:3475:LYS:HD3	1:B:3475:LYS:HA	1.74	0.47
1:B:4581:LYS:HG2	1:B:4633:GLU:HB2	1.96	0.47
1:D:2522:LEU:HB2	1:D:2578:MET:HE1	1.96	0.47
1:D:3859:VAL:HG13	1:D:3864:THR:HG23	1.96	0.47
1:D:4131:ARG:HG2	1:D:4132:PHE:CE2	2.49	0.47
1:C:125:ARG:HD3	1:C:134:ASP:OD1	2.14	0.47
1:C:1448:VAL:HG22	1:C:1554:VAL:HG23	1.95	0.47
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.47	0.47
1:C:2755:ILE:HG22	1:C:2809:ILE:HG22	1.96	0.47
1:C:3532:LEU:HB3	1:C:3596:VAL:HG11	1.95	0.47
1:C:3843:ASP:H	1:C:3874:VAL:HG12	1.80	0.47
1:C:3859:VAL:HG13	1:C:3864:THR:HG23	1.96	0.47
1:C:4069:LYS:HD3	1:C:4133:GLN:HG3	1.96	0.47
1:A:643:SER:OG	1:A:826:ILE:HD12	2.14	0.47
1:A:1163:THR:HG22	1:A:1168:VAL:HA	1.96	0.47
1:A:2515:GLN:CD	1:A:2572:THR:HG23	2.39	0.47
1:A:2806:ARG:HG3	1:A:2810:LYS:HZ3	1.78	0.47
1:A:2924:GLN:O	1:A:2928:LYS:HG2	2.14	0.47
1:A:3354:LEU:HD23	1:A:3415:TYR:CZ	2.49	0.47
1:A:3535:LEU:O	1:A:3538:THR:OG1	2.25	0.47
1:A:3981:ALA:HB2	1:A:4040:ILE:HD11	1.97	0.47
2:H:41:ASP:N	2:H:41:ASP:OD1	2.47	0.47
1:B:2825:LYS:HB2	1:B:2827:ARG:HE	1.79	0.47
1:B:4056:GLU:OE1	1:B:4056:GLU:HA	2.14	0.47
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.14	0.47
1:D:110:ARG:HA	1:D:117:TYR:HA	1.97	0.47
1:D:2715:VAL:HG13	1:D:2953:LYS:HB3	1.96	0.47
1:D:2740:VAL:HG21	1:D:2819:TRP:HE1	1.79	0.47
1:D:3384:LYS:HB3	1:D:3384:LYS:HE2	1.66	0.47
1:D:3629:ARG:HA	1:D:3632:VAL:HG22	1.96	0.47
1:D:4096:ALA:O	1:D:4099:SER:OG	2.28	0.47
1:D:4581:LYS:HG2	1:D:4633:GLU:HB2	1.96	0.47
1:A:16:THR:OG1	1:A:99:ARG:N	2.48	0.47
1:A:135:VAL:HG21	1:A:180:LEU:HD12	1.96	0.47
1:A:784:SER:OG	1:A:785:ALA:N	2.47	0.47
1:A:1155:LEU:HD23	1:A:1184:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4131:ARG:HG2	1:A:4132:PHE:CE2	2.49	0.47
1:A:4157:ASP:OD2	1:A:4160:LEU:N	2.39	0.47
1:A:4253:GLU:HG3	1:A:4557:ARG:HH21	1.79	0.47
2:E:11:ASP:OD2	2:E:12:GLY:N	2.47	0.47
1:B:78:LEU:O	1:B:81:MET:HG3	2.13	0.47
1:B:78:LEU:O	1:B:82:LEU:HG	2.14	0.47
1:B:273:HIS:O	1:B:275:ARG:NE	2.44	0.47
1:B:296:ASP:OD2	1:B:296:ASP:N	2.40	0.47
1:B:308:HIS:O	1:B:309:THR:HG22	2.15	0.47
1:B:2515:GLN:CD	1:B:2572:THR:HG23	2.39	0.47
1:B:2715:VAL:HG13	1:B:2953:LYS:HB3	1.96	0.47
1:B:3354:LEU:HD23	1:B:3415:TYR:CZ	2.49	0.47
1:B:4069:LYS:HD3	1:B:4133:GLN:HG3	1.96	0.47
1:D:1648:MET:HB3	1:D:1648:MET:HE2	1.75	0.47
1:D:2924:GLN:O	1:D:2928:LYS:HG2	2.15	0.47
1:D:3655:GLU:HA	1:D:3658:LYS:NZ	2.29	0.47
1:C:73:LEU:O	1:C:106:ALA:N	2.28	0.47
1:C:234:SER:OG	1:C:238:SER:OG	2.24	0.47
1:C:3460:VAL:HG12	1:C:3502:ARG:HH22	1.80	0.47
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.14	0.47
1:A:273:HIS:O	1:A:275:ARG:NE	2.44	0.47
1:A:2965:ARG:HE	1:A:2969:ILE:HD11	1.78	0.47
1:B:247:TYR:CE1	1:B:359:TYR:HA	2.50	0.47
1:B:323:LEU:HB3	1:B:325:THR:HG23	1.95	0.47
1:B:867:LEU:HD12	1:B:929:LEU:HD23	1.96	0.47
1:B:1155:LEU:HD23	1:B:1184:ILE:HG12	1.97	0.47
1:B:1479:GLU:H	1:B:1479:GLU:CD	2.22	0.47
1:B:1520:VAL:HG12	1:B:1527:MET:HG2	1.96	0.47
1:B:2218:GLY:HA3	1:B:2221:LYS:HE2	1.96	0.47
1:B:2301:TYR:HB3	1:B:2331:TYR:CE2	2.49	0.47
1:B:3571:TRP:CE2	1:C:1228:ILE:HG12	2.49	0.47
1:B:3629:ARG:HA	1:B:3632:VAL:HG22	1.96	0.47
1:B:3843:ASP:H	1:B:3874:VAL:HG12	1.79	0.47
1:D:784:SER:OG	1:D:785:ALA:N	2.47	0.47
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.47	0.47
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.13	0.47
1:D:2218:GLY:HA3	1:D:2221:LYS:HE2	1.96	0.47
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.47	0.47
1:D:3582:ARG:H	1:D:3582:ARG:HG2	1.43	0.47
1:D:4680:LYS:HE3	1:D:4686:LEU:HD22	1.97	0.47
1:C:939:VAL:HG12	1:C:1053:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1155:LEU:HD23	1:C:1184:ILE:HG12	1.97	0.47
1:C:1566:LEU:HD23	1:C:1575:LEU:HD23	1.96	0.47
1:C:1585:LYS:HE2	1:C:1585:LYS:HA	1.96	0.47
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.50	0.47
1:C:3514:LEU:HD12	1:C:3606:LEU:HD13	1.97	0.47
1:C:4069:LYS:HB2	1:C:4133:GLN:HE21	1.80	0.47
1:A:110:ARG:HA	1:A:117:TYR:HA	1.97	0.47
1:A:2799:GLU:O	1:A:2803:GLU:HG2	2.14	0.47
1:A:2985:ARG:HG3	1:A:2985:ARG:NH1	2.30	0.47
1:A:3391:GLU:OE2	1:A:3450:ASN:ND2	2.43	0.47
1:A:3526:ALA:O	1:A:3529:ASP:HB2	2.14	0.47
1:A:4839:MET:HE2	1:A:4839:MET:HA	1.97	0.47
1:B:1448:VAL:HG22	1:B:1554:VAL:HG23	1.95	0.47
1:B:2679:PHE:HB2	1:B:2706:ILE:HG21	1.97	0.47
1:B:2965:ARG:HE	1:B:2969:ILE:HD11	1.79	0.47
1:B:3981:ALA:HB2	1:B:4040:ILE:HD11	1.97	0.47
1:D:2301:TYR:HB3	1:D:2331:TYR:CE2	2.50	0.47
1:D:3354:LEU:HD23	1:D:3415:TYR:CZ	2.49	0.47
1:D:4839:MET:HE2	1:D:4839:MET:HA	1.97	0.47
1:C:247:TYR:CE1	1:C:359:TYR:HA	2.50	0.47
1:C:421:PHE:CZ	1:C:507:ALA:HB2	2.50	0.47
1:C:2584[B]:HIS:HE1	1:C:2621:HIS:HB3	1.79	0.47
1:C:2715:VAL:HG13	1:C:2953:LYS:HB3	1.96	0.47
1:C:3233:PRO:HB3	1:C:3238:GLU:HB3	1.95	0.47
1:C:3526:ALA:O	1:C:3529:ASP:HB2	2.14	0.47
1:C:3529:ASP:OD2	1:C:3592:ILE:HG23	2.14	0.47
1:A:50:GLU:OE2	1:A:61:ASP:N	2.44	0.47
1:A:70:GLU:OE1	1:A:110:ARG:HB3	2.15	0.47
1:A:338:GLU:N	1:A:338:GLU:OE2	2.48	0.47
1:A:1997:GLU:HB2	1:A:2008:MET:CE	2.44	0.47
1:A:2679:PHE:HB2	1:A:2706:ILE:HG21	1.97	0.47
1:A:3089:LYS:O	1:A:3093:ARG:HG3	2.14	0.47
1:A:3460:VAL:HG12	1:A:3502:ARG:HH22	1.80	0.47
1:A:3477:LYS:HZ2	1:B:1141:ARG:HG3	1.69	0.47
1:A:4069:LYS:HD3	1:A:4133:GLN:HG3	1.96	0.47
1:B:70:GLU:OE1	1:B:110:ARG:HB3	2.15	0.47
1:B:1163:THR:HG22	1:B:1168:VAL:HA	1.96	0.47
1:B:2755:ILE:HG22	1:B:2809:ILE:HG22	1.96	0.47
1:B:3629:ARG:HG3	1:B:3630:ARG:N	2.30	0.47
1:B:4707:ASN:HB3	1:B:4774:LYS:HZ2	1.80	0.47
1:D:2211:MET:HE3	1:D:2232:CYS:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4069:LYS:HD3	1:D:4133:GLN:HG3	1.97	0.47
1:C:135:VAL:HG21	1:C:180:LEU:HD12	1.97	0.47
1:C:2886:TRP:CH2	1:C:2904:LEU:HB3	2.43	0.47
1:C:3434:LEU:HA	1:C:3437:MET:HE3	1.95	0.47
1:A:125:ARG:HD3	1:A:134:ASP:OD1	2.14	0.47
1:A:308:HIS:CE1	1:A:311:ALA:H	2.32	0.47
1:A:1585:LYS:HE2	1:A:1585:LYS:HA	1.96	0.47
1:A:2005:GLN:O	1:A:2008:MET:HG2	2.14	0.47
1:A:2522:LEU:HB2	1:A:2578:MET:HE1	1.96	0.47
1:A:3843:ASP:H	1:A:3874:VAL:HG12	1.80	0.47
1:A:4680:LYS:HE3	1:A:4686:LEU:HD22	1.97	0.47
1:A:4910:GLU:O	1:A:4914:VAL:HG13	2.14	0.47
1:B:338:GLU:N	1:B:338:GLU:OE2	2.48	0.47
1:B:421:PHE:CZ	1:B:507:ALA:HB2	2.50	0.47
1:B:906:CYS:SG	1:B:913:LEU:HD22	2.55	0.47
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.95	0.47
1:B:1421:ARG:H	1:B:1421:ARG:HE	1.62	0.47
1:B:2265:LEU:HD12	1:B:2265:LEU:HA	1.75	0.47
1:B:2351:ASN:O	1:B:2355:ARG:HG3	2.15	0.47
1:B:2358:ILE:HB	1:C:195:PHE:CE1	2.50	0.47
1:B:2584[B]:HIS:HE1	1:B:2621:HIS:HB3	1.79	0.47
1:B:2985:ARG:HG3	1:B:2985:ARG:NH1	2.30	0.47
1:B:3526:ALA:O	1:B:3529:ASP:HB2	2.14	0.47
1:B:3582:ARG:H	1:B:3582:ARG:HG2	1.42	0.47
1:B:5000:GLU:OE1	1:B:5000:GLU:N	2.44	0.47
1:D:16:THR:OG1	1:D:99:ARG:N	2.48	0.47
1:D:102:LEU:CD1	1:C:3984:ARG:HH22	2.28	0.47
1:D:220:LEU:HD21	1:D:262:LEU:HD21	1.96	0.47
1:D:264:PRO:HB2	1:D:266:ARG:HG2	1.96	0.47
1:D:1155:LEU:HD23	1:D:1184:ILE:HG12	1.96	0.47
1:D:1479:GLU:H	1:D:1479:GLU:CD	2.22	0.47
1:D:1520:VAL:HG12	1:D:1527:MET:HG2	1.96	0.47
1:D:1566:LEU:HD23	1:D:1575:LEU:HD23	1.96	0.47
1:D:2005:GLN:O	1:D:2008:MET:HG2	2.14	0.47
1:D:2515:GLN:CD	1:D:2572:THR:HG23	2.39	0.47
1:D:2799:GLU:O	1:D:2803:GLU:HG2	2.14	0.47
1:D:3335:MET:HE1	1:D:3404:ASP:HA	1.97	0.47
1:D:3532:LEU:HB3	1:D:3596:VAL:HG11	1.96	0.47
1:C:784:SER:OG	1:C:785:ALA:N	2.47	0.47
1:C:1280:GLN:CD	1:C:1281:ASN:H	2.23	0.47
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2924:GLN:O	1:C:2928:LYS:HG2	2.14	0.47
1:C:3629:ARG:HG3	1:C:3630:ARG:N	2.30	0.47
1:C:4543:GLU:O	1:C:4547:GLN:HG2	2.15	0.47
1:A:308:HIS:O	1:A:309:THR:HG22	2.15	0.47
1:A:906:CYS:SG	1:A:913:LEU:HD22	2.55	0.47
1:A:2518:LEU:O	1:A:2521:VAL:HG12	2.15	0.47
1:A:2962:GLN:OE1	1:A:2965:ARG:NH1	2.48	0.47
1:B:499:THR:OG1	1:B:500:ALA:N	2.48	0.47
1:B:3935:TRP:CE3	1:C:80:GLU:HG3	2.50	0.47
1:B:4680:LYS:HE3	1:B:4686:LEU:HD22	1.97	0.47
1:D:70:GLU:OE1	1:D:110:ARG:HB3	2.15	0.47
1:D:78:LEU:O	1:D:82:LEU:HG	2.14	0.47
1:D:273:HIS:O	1:D:275:ARG:NE	2.44	0.47
1:D:3573:MET:HG3	1:D:3577:ARG:NH2	2.29	0.47
1:D:4253:GLU:HG3	1:D:4557:ARG:HH21	1.79	0.47
1:C:16:THR:OG1	1:C:99:ARG:N	2.48	0.47
1:C:264:PRO:HB2	1:C:266:ARG:HG2	1.96	0.47
1:C:643:SER:OG	1:C:826:ILE:HD12	2.14	0.47
1:C:906:CYS:SG	1:C:913:LEU:HD22	2.55	0.47
1:C:2799:GLU:O	1:C:2803:GLU:HG2	2.14	0.47
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.15	0.47
1:C:4748:LEU:HD12	1:C:4749:GLU:N	2.30	0.47
1:A:384:MET:HE2	1:A:384:MET:N	2.18	0.47
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.95	0.47
1:A:1520:VAL:HG12	1:A:1527:MET:HG2	1.96	0.47
1:A:1703:LEU:HD23	1:A:1704:PRO:HD2	1.97	0.47
1:A:3335:MET:HE1	1:A:3404:ASP:HA	1.97	0.47
2:H:19:GLY:C	2:H:49:MET:HE2	2.40	0.47
1:B:13:PHE:HE1	1:B:164:ARG:HG2	1.80	0.47
1:B:16:THR:OG1	1:B:99:ARG:N	2.48	0.47
1:B:643:SER:OG	1:B:826:ILE:HD12	2.14	0.47
1:B:2138:LEU:HB3	1:B:3658:LYS:HE3	1.95	0.47
1:B:4581:LYS:HE2	1:B:4581:LYS:HB2	1.64	0.47
1:D:308:HIS:O	1:D:309:THR:HG22	2.15	0.47
1:D:1421:ARG:HE	1:D:1421:ARG:H	1.62	0.47
1:D:3384:LYS:HE3	1:D:3386:GLU:HB3	1.97	0.47
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.15	0.47
1:D:4069:LYS:HB2	1:D:4133:GLN:HE21	1.80	0.47
1:D:4707:ASN:HB3	1:D:4774:LYS:HZ2	1.80	0.47
1:C:867:LEU:HD12	1:C:929:LEU:HD23	1.96	0.47
1:C:1163:THR:HG22	1:C:1168:VAL:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2369[B]:ARG:HD3	1:C:2369[B]:ARG:HA	1.57	0.47
1:C:2962:GLN:OE1	1:C:2965:ARG:NH1	2.48	0.47
1:C:3384:LYS:HE3	1:C:3386:GLU:HB3	1.97	0.47
1:C:3629:ARG:HA	1:C:3632:VAL:HG22	1.96	0.47
1:A:247:TYR:CE1	1:A:359:TYR:HA	2.50	0.47
1:A:3629:ARG:HA	1:A:3632:VAL:HG22	1.96	0.47
2:H:79:ASP:OD2	2:H:79:ASP:N	2.47	0.47
1:B:110:ARG:HA	1:B:117:TYR:HA	1.96	0.47
1:B:125:ARG:HD3	1:B:134:ASP:OD1	2.14	0.47
1:B:259:LEU:HD21	1:B:393:CYS:HB2	1.97	0.47
1:B:1280:GLN:CD	1:B:1281:ASN:H	2.23	0.47
1:B:1763:PRO:HG3	1:B:2094:LEU:HD22	1.97	0.47
1:B:2005:GLN:O	1:B:2008:MET:HG2	2.14	0.47
1:B:2672:LEU:HD23	1:B:2672:LEU:HA	1.81	0.47
1:B:2962:GLN:OE1	1:B:2965:ARG:NH1	2.48	0.47
1:B:3859:VAL:HG13	1:B:3864:THR:HG23	1.96	0.47
1:D:867:LEU:HD12	1:D:929:LEU:HD23	1.96	0.47
1:C:2211:MET:HE3	1:C:2232:CYS:CB	2.45	0.47
1:C:2515:GLN:CD	1:C:2572:THR:HG23	2.40	0.47
1:C:3145:GLN:CD	1:C:3196:ARG:HE	2.23	0.47
1:C:3335:MET:HE1	1:C:3404:ASP:HA	1.97	0.47
1:A:1727:ARG:HD3	1:A:1727:ARG:HA	1.62	0.46
1:A:1819:VAL:HA	1:A:1929:MET:HE1	1.95	0.46
1:A:2005:GLN:HA	1:A:2008:MET:CE	2.40	0.46
1:A:2218:GLY:HA3	1:A:2221:LYS:HE2	1.96	0.46
1:A:2527:LEU:HD21	1:A:2582:MET:HB2	1.96	0.46
1:A:2584[B]:HIS:HE1	1:A:2621:HIS:HB3	1.79	0.46
1:A:3859:VAL:HG13	1:A:3864:THR:HG23	1.96	0.46
1:B:590:LEU:HB2	1:B:599:VAL:HG11	1.97	0.46
1:B:939:VAL:HG12	1:B:1053:ILE:HG23	1.97	0.46
1:B:2740:VAL:HG21	1:B:2819:TRP:HE1	1.79	0.46
1:D:135:VAL:HG21	1:D:180:LEU:HD12	1.96	0.46
1:D:906:CYS:SG	1:D:913:LEU:HD22	2.55	0.46
1:D:2294:ASP:O	1:D:2298:VAL:HG23	2.15	0.46
1:D:2584[B]:HIS:HE1	1:D:2621:HIS:HB3	1.79	0.46
1:D:2886:TRP:CH2	1:D:2904:LEU:HB3	2.43	0.46
1:D:4056:GLU:OE1	1:D:4056:GLU:HA	2.14	0.46
1:D:4543:GLU:O	1:D:4547:GLN:HG2	2.15	0.46
1:C:110:ARG:HA	1:C:117:TYR:HA	1.97	0.46
1:C:2351:ASN:O	1:C:2355:ARG:HG3	2.15	0.46
1:C:2825:LYS:HB2	1:C:2827:ARG:HE	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4253:GLU:HG3	1:C:4557:ARG:HH21	1.79	0.46
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.15	0.46
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.97	0.46
1:A:4069:LYS:HB2	1:A:4133:GLN:HE21	1.80	0.46
2:G:41:ASP:OD1	2:G:41:ASP:N	2.47	0.46
1:B:1703:LEU:HD23	1:B:1704:PRO:HD2	1.97	0.46
1:B:1808:ARG:HG3	1:B:1809:ASP:N	2.31	0.46
1:B:2527:LEU:HD21	1:B:2582:MET:HB2	1.96	0.46
1:B:2653:LYS:HB2	1:B:2653:LYS:HE2	1.72	0.46
1:B:2770:LYS:HD2	1:B:2787:THR:HG22	1.98	0.46
1:B:3145:GLN:CD	1:B:3196:ARG:HE	2.23	0.46
1:B:4069:LYS:HB2	1:B:4133:GLN:HE21	1.80	0.46
1:D:247:TYR:CE1	1:D:359:TYR:HA	2.50	0.46
1:D:1703:LEU:HD23	1:D:1704:PRO:HD2	1.97	0.46
1:D:2481:LYS:HA	1:D:2481:LYS:HD3	1.78	0.46
1:D:2679:PHE:HB2	1:D:2706:ILE:HG21	1.97	0.46
1:D:4748:LEU:HD12	1:D:4749:GLU:N	2.30	0.46
1:C:1738:LEU:HD13	1:C:1963:GLU:HG3	1.97	0.46
1:C:2284:ASN:OD1	1:C:2342:ASN:ND2	2.49	0.46
1:C:3070:ILE:O	1:C:3074:SER:OG	2.28	0.46
1:C:4839:MET:HE2	1:C:4839:MET:HA	1.97	0.46
1:A:2211:MET:HE3	1:A:2232:CYS:CB	2.45	0.46
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.49	0.46
1:A:3384:LYS:HE3	1:A:3386:GLU:HB3	1.97	0.46
1:A:4581:LYS:HG2	1:A:4633:GLU:HB2	1.96	0.46
1:A:4707:ASN:HB3	1:A:4774:LYS:HZ2	1.80	0.46
2:H:90:ILE:HD12	1:D:1687:SER:CB	2.43	0.46
2:G:79:ASP:OD2	2:G:79:ASP:N	2.49	0.46
1:B:516:LYS:O	1:B:520:ASN:ND2	2.40	0.46
1:B:2697:ARG:HD2	1:B:2697:ARG:C	2.41	0.46
1:B:2799:GLU:O	1:B:2803:GLU:HG2	2.14	0.46
1:B:2874:MET:HE3	1:B:2939:ARG:HE	1.80	0.46
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.14	0.46
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.46
1:B:3335:MET:HE1	1:B:3404:ASP:HA	1.97	0.46
1:B:3573:MET:HG3	1:B:3577:ARG:NH2	2.29	0.46
1:B:4003:LEU:HA	1:B:4009:GLN:NE2	2.31	0.46
1:D:80:GLU:HG3	1:C:3935:TRP:CE3	2.51	0.46
1:D:262:LEU:HD12	1:D:262:LEU:O	2.16	0.46
1:D:2203:MET:HG3	1:D:2235:PHE:HZ	1.81	0.46
1:D:2351:ASN:O	1:D:2355:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2518:LEU:HD22	1:D:2565:CYS:HB3	1.98	0.46
1:D:2977:LEU:HA	1:D:2980:VAL:HG22	1.97	0.46
1:D:5000:GLU:OE1	1:D:5000:GLU:N	2.44	0.46
1:C:472:ARG:NH1	1:C:475:GLN:OE1	2.49	0.46
1:C:669:ASP:OD2	1:C:788:LYS:NZ	2.49	0.46
1:C:1520:VAL:HG12	1:C:1527:MET:HG2	1.96	0.46
1:C:2005:GLN:O	1:C:2008:MET:HG2	2.14	0.46
1:C:2196:ASN:OD1	1:C:2199:ARG:NH2	2.48	0.46
1:C:2985:ARG:HG3	1:C:2985:ARG:NH1	2.29	0.46
1:C:4707:ASN:HB3	1:C:4774:LYS:HZ2	1.80	0.46
1:A:2351:ASN:O	1:A:2355:ARG:HG3	2.15	0.46
1:A:2697:ARG:HD2	1:A:2697:ARG:C	2.41	0.46
1:A:3233:PRO:HB3	1:A:3238:GLU:HB3	1.95	0.46
1:A:4543:GLU:O	1:A:4547:GLN:HG2	2.15	0.46
1:A:4748:LEU:HD12	1:A:4749:GLU:N	2.30	0.46
1:B:1248:VAL:HG22	1:B:1599:MET:HB3	1.97	0.46
1:B:1252:HIS:HD2	1:B:1255:TYR:HB2	1.80	0.46
1:B:1537:ASN:OD1	1:B:1537:ASN:N	2.40	0.46
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.47	0.46
1:B:4839:MET:HE2	1:B:4839:MET:HA	1.97	0.46
1:B:4867:GLU:OE1	1:B:4867:GLU:N	2.36	0.46
1:D:1172:ASP:OD1	1:D:1172:ASP:N	2.35	0.46
1:D:1763:PRO:HG3	1:D:2094:LEU:HD22	1.97	0.46
1:D:1808:ARG:HG3	1:D:1809:ASP:N	2.31	0.46
1:D:2196:ASN:OD1	1:D:2199:ARG:NH2	2.48	0.46
1:D:2624:ARG:HD3	1:D:2910:THR:HB	1.97	0.46
1:D:3145:GLN:CD	1:D:3196:ARG:HE	2.23	0.46
1:D:3629:ARG:NH2	1:D:3633:VAL:HG21	2.30	0.46
1:D:3843:ASP:H	1:D:3874:VAL:HG12	1.80	0.46
1:C:70:GLU:OE1	1:C:110:ARG:HB3	2.15	0.46
1:C:308:HIS:O	1:C:309:THR:HG22	2.15	0.46
1:C:1089:TYR:CE1	1:C:1152:MET:HE2	2.51	0.46
1:C:1537:ASN:OD1	1:C:1537:ASN:N	2.40	0.46
1:A:2518:LEU:HD22	1:A:2565:CYS:HB3	1.98	0.46
1:A:2755:ILE:HG22	1:A:2809:ILE:HG22	1.96	0.46
1:A:2874:MET:HE3	1:A:2939:ARG:HE	1.80	0.46
1:A:3378:GLN:HA	1:A:3381:LEU:HD23	1.98	0.46
1:A:3629:ARG:HG3	1:A:3630:ARG:N	2.30	0.46
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.15	0.46
1:A:4056:GLU:OE1	1:A:4056:GLU:HA	2.14	0.46
1:A:5000:GLU:OE1	1:A:5000:GLU:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:44:LYS:HB3	2:E:44:LYS:NZ	2.30	0.46
1:B:2284:ASN:OD1	1:B:2342:ASN:ND2	2.49	0.46
1:B:3378:GLN:HA	1:B:3381:LEU:HD23	1.98	0.46
1:B:3460:VAL:HG12	1:B:3502:ARG:HH22	1.80	0.46
1:B:3984:ARG:HH22	1:C:102:LEU:CD1	2.29	0.46
1:B:4748:LEU:HD12	1:B:4749:GLU:N	2.30	0.46
1:D:50:GLU:OE2	1:D:61:ASP:N	2.44	0.46
1:D:883:ALA:O	1:D:887:ILE:HG23	2.16	0.46
1:D:1753:LYS:NZ	1:D:1759:ARG:HG2	2.29	0.46
1:D:2697:ARG:HD2	1:D:2697:ARG:C	2.41	0.46
1:D:2770:LYS:HD2	1:D:2787:THR:HG22	1.98	0.46
1:D:2874:MET:HE3	1:D:2939:ARG:HE	1.80	0.46
1:C:938:HIS:ND1	1:C:1054:GLU:OE2	2.45	0.46
1:C:1703:LEU:HD23	1:C:1704:PRO:HD2	1.97	0.46
1:C:1808:ARG:HG3	1:C:1809:ASP:N	2.31	0.46
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.98	0.46
1:C:3106:MET:HE2	1:C:3106:MET:HB2	1.75	0.46
1:C:3348:ARG:HA	1:C:3348:ARG:CZ	2.46	0.46
1:C:3981:ALA:HB2	1:C:4040:ILE:HD11	1.97	0.46
1:A:897:ARG:HG3	1:A:905:PRO:HD2	1.98	0.46
1:A:2165:LEU:HB2	1:A:2178:MET:HE1	1.98	0.46
1:A:2310:CYS:H	1:A:2324:ASN:HB2	1.81	0.46
1:A:3348:ARG:CZ	1:A:3348:ARG:HA	2.46	0.46
1:A:3537:LYS:HE2	1:A:3537:LYS:HB3	1.70	0.46
1:B:171:LEU:O	1:B:179:TYR:HA	2.16	0.46
1:B:220:LEU:HD21	1:B:262:LEU:HD21	1.96	0.46
1:B:1738:LEU:HD13	1:B:1963:GLU:HG3	1.98	0.46
1:B:2211:MET:HE3	1:B:2232:CYS:CB	2.45	0.46
1:B:2294:ASP:O	1:B:2298:VAL:HG23	2.15	0.46
1:B:3384:LYS:HE3	1:B:3386:GLU:HB3	1.97	0.46
1:B:3514:LEU:HD12	1:B:3606:LEU:HD13	1.97	0.46
1:B:4543:GLU:O	1:B:4547:GLN:HG2	2.15	0.46
1:D:171:LEU:O	1:D:179:TYR:HA	2.16	0.46
1:D:195:PHE:CE1	1:C:2358:ILE:HB	2.51	0.46
1:D:1981:MET:N	1:D:1981:MET:HE2	2.31	0.46
1:D:1997:GLU:HB2	1:D:2008:MET:HE3	1.98	0.46
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.98	0.46
1:D:3348:ARG:CZ	1:D:3348:ARG:HA	2.46	0.46
1:C:338:GLU:N	1:C:338:GLU:OE2	2.48	0.46
1:C:590:LEU:HB2	1:C:599:VAL:HG11	1.97	0.46
1:C:897:ARG:HG3	1:C:905:PRO:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1974:ARG:NH1	1:C:3642:TYR:HB2	2.31	0.46
1:C:2165:LEU:HB2	1:C:2178:MET:HE1	1.98	0.46
1:C:3354:LEU:HB3	1:C:3415:TYR:CZ	2.51	0.46
1:C:4680:LYS:HE3	1:C:4686:LEU:HD22	1.97	0.46
1:A:259:LEU:HD21	1:A:393:CYS:HB2	1.97	0.46
1:A:421:PHE:CZ	1:A:507:ALA:HB2	2.50	0.46
1:A:669:ASP:OD2	1:A:788:LYS:NZ	2.49	0.46
1:A:883:ALA:O	1:A:887:ILE:HG23	2.16	0.46
1:A:975:VAL:HG11	1:A:1044:ARG:HA	1.98	0.46
1:A:1089:TYR:CE1	1:A:1152:MET:HE2	2.51	0.46
1:A:2284:ASN:OD1	1:A:2342:ASN:ND2	2.49	0.46
1:A:2477:PRO:HD2	1:A:2536:LEU:HD21	1.98	0.46
1:A:2637:ALA:C	1:A:2640:PRO:HD2	2.41	0.46
1:A:2816:MET:O	1:A:2821:TRP:HB2	2.16	0.46
1:A:3034:LYS:NZ	1:A:3038:MET:HG3	2.31	0.46
1:A:3514:LEU:HD12	1:A:3606:LEU:HD13	1.97	0.46
2:F:7:ILE:HA	1:B:719:LEU:HD11	1.97	0.46
1:B:476:SER:O	1:B:480:GLU:HG2	2.16	0.46
1:B:675:LEU:HD23	1:B:1633:PRO:HB3	1.98	0.46
1:B:2165:LEU:HB2	1:B:2178:MET:HE1	1.98	0.46
1:B:2637:ALA:C	1:B:2640:PRO:HD2	2.41	0.46
1:B:4253:GLU:HG3	1:B:4557:ARG:HH21	1.79	0.46
1:D:338:GLU:N	1:D:338:GLU:OE2	2.48	0.46
1:D:2204:HIS:HA	1:D:2235:PHE:HE1	1.81	0.46
1:D:3354:LEU:HB3	1:D:3415:TYR:CZ	2.51	0.46
1:D:3460:VAL:HG12	1:D:3502:ARG:HH22	1.80	0.46
1:C:476:SER:O	1:C:480:GLU:HG2	2.16	0.46
1:C:2204:HIS:HA	1:C:2235:PHE:HE1	1.81	0.46
1:C:2740:VAL:HG21	1:C:2819:TRP:HE1	1.79	0.46
1:C:4056:GLU:OE1	1:C:4056:GLU:HA	2.14	0.46
1:A:13:PHE:HE1	1:A:164:ARG:HG2	1.80	0.46
1:A:127:MET:HE3	1:A:127:MET:N	2.26	0.46
1:A:1421:ARG:HE	1:A:1421:ARG:H	1.62	0.46
1:A:1808:ARG:HG3	1:A:1809:ASP:N	2.31	0.46
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.98	0.46
1:A:3145:GLN:CD	1:A:3196:ARG:HE	2.24	0.46
1:A:3629:ARG:NH2	1:A:3633:VAL:HG21	2.31	0.46
1:A:3655:GLU:HA	1:A:3658:LYS:NZ	2.29	0.46
1:A:4003:LEU:HA	1:A:4009:GLN:NE2	2.31	0.46
2:H:44:LYS:NZ	2:H:44:LYS:HB3	2.31	0.46
2:F:35:LYS:HZ3	2:F:38:SER:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:LEU:HD13	1:B:375:LYS:HE2	1.98	0.46
1:B:1444:GLU:HA	1:B:1444:GLU:OE1	2.16	0.46
1:B:1581:LEU:O	1:B:1584:ARG:HG2	2.16	0.46
1:B:1730:MET:HE2	1:B:1730:MET:HA	1.97	0.46
1:B:2204:HIS:HA	1:B:2235:PHE:HE1	1.81	0.46
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.98	0.46
1:B:3629:ARG:NH2	1:B:3633:VAL:HG21	2.31	0.46
1:D:244:LEU:HD13	1:D:375:LYS:HE2	1.98	0.46
1:D:259:LEU:HD21	1:D:393:CYS:HB2	1.97	0.46
1:D:369:LEU:H	1:D:369:LEU:HD12	1.81	0.46
1:D:426:ARG:HH11	1:D:508:GLY:HA2	1.81	0.46
1:D:2310:CYS:H	1:D:2324:ASN:HB2	1.81	0.46
1:D:2816:MET:O	1:D:2821:TRP:HB2	2.16	0.46
1:C:262:LEU:O	1:C:262:LEU:HD12	2.16	0.46
1:C:499:THR:OG1	1:C:500:ALA:N	2.48	0.46
1:C:1421:ARG:HE	1:C:1421:ARG:H	1.62	0.46
1:C:2679:PHE:HB2	1:C:2706:ILE:HG21	1.97	0.46
1:C:2913:ALA:O	1:C:2917:ALA:N	2.49	0.46
1:C:3778:MET:HE2	1:C:3778:MET:HB3	1.73	0.46
1:A:426:ARG:HH11	1:A:508:GLY:HA2	1.81	0.46
1:A:590:LEU:HB2	1:A:599:VAL:HG11	1.97	0.46
1:A:1248:VAL:HG22	1:A:1599:MET:HB3	1.97	0.46
1:A:1422:ASP:OD1	1:A:1571:ASN:N	2.39	0.46
1:A:1997:GLU:HB2	1:A:2008:MET:HE3	1.98	0.46
1:A:2977:LEU:HA	1:A:2980:VAL:HG22	1.97	0.46
1:A:4860:ARG:HG3	1:A:4876:CYS:HB3	1.98	0.46
1:B:262:LEU:HD12	1:B:262:LEU:O	2.16	0.46
1:B:897:ARG:HG3	1:B:905:PRO:HD2	1.98	0.46
1:B:2477:PRO:HD2	1:B:2536:LEU:HD21	1.98	0.46
1:B:2518:LEU:O	1:B:2521:VAL:HG12	2.15	0.46
1:B:2977:LEU:HA	1:B:2980:VAL:HG22	1.97	0.46
1:B:3348:ARG:CZ	1:B:3348:ARG:HA	2.46	0.46
1:B:3354:LEU:HB3	1:B:3415:TYR:CZ	2.51	0.46
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.15	0.46
1:D:13:PHE:HE1	1:D:164:ARG:HG2	1.80	0.46
1:D:421:PHE:CZ	1:D:507:ALA:HB2	2.50	0.46
1:D:472:ARG:NH1	1:D:475:GLN:OE1	2.49	0.46
1:D:476:SER:O	1:D:480:GLU:HG2	2.16	0.46
1:D:1226:PHE:O	1:D:1827:ARG:NH2	2.42	0.46
1:D:1252:HIS:HD2	1:D:1255:TYR:HB2	1.81	0.46
1:D:1280:GLN:CD	1:D:1281:ASN:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1974:ARG:NH1	1:D:3642:TYR:HB2	2.31	0.46
1:D:2165:LEU:HB2	1:D:2178:MET:HE1	1.98	0.46
1:D:2518:LEU:O	1:D:2521:VAL:HG12	2.15	0.46
1:D:2962:GLN:OE1	1:D:2965:ARG:NH1	2.48	0.46
1:C:345:LEU:HA	1:C:345:LEU:HD23	1.74	0.46
1:C:1581:LEU:O	1:C:1584:ARG:HG2	2.16	0.46
1:C:2310:CYS:H	1:C:2324:ASN:HB2	1.81	0.46
1:C:2697:ARG:HD2	1:C:2697:ARG:C	2.41	0.46
1:C:3629:ARG:NH2	1:C:3633:VAL:HG21	2.30	0.46
1:A:472:ARG:NH1	1:A:475:GLN:OE1	2.49	0.46
1:A:894:GLY:HA3	1:A:903:LEU:HD13	1.98	0.46
1:A:1981:MET:N	1:A:1981:MET:HE2	2.31	0.46
1:B:369:LEU:H	1:B:369:LEU:HD12	1.81	0.46
1:B:975:VAL:HG11	1:B:1044:ARG:HA	1.98	0.46
1:B:1997:GLU:HB2	1:B:2008:MET:HE3	1.98	0.46
1:B:2805:TYR:O	1:B:2808:PRO:HD2	2.16	0.46
1:B:2816:MET:O	1:B:2821:TRP:HB2	2.16	0.46
1:B:3936:TYR:O	1:B:3940:LYS:NZ	2.38	0.46
1:B:4067:LYS:HE3	1:B:4102:GLN:HB3	1.98	0.46
1:D:345:LEU:HD23	1:D:345:LEU:HA	1.74	0.46
1:D:1089:TYR:CE1	1:D:1152:MET:HE2	2.51	0.46
1:D:2477:PRO:HD2	1:D:2536:LEU:HD21	1.98	0.46
1:D:2805:TYR:O	1:D:2808:PRO:HD2	2.16	0.46
1:D:2913:ALA:O	1:D:2917:ALA:N	2.49	0.46
1:C:45:ARG:HA	1:C:45:ARG:HD3	1.74	0.46
1:C:76:ARG:NH2	1:C:80:GLU:OE2	2.49	0.46
1:C:883:ALA:O	1:C:887:ILE:HG23	2.16	0.46
1:C:1248:VAL:HG22	1:C:1599:MET:HB3	1.97	0.46
1:C:1763:PRO:HG3	1:C:2094:LEU:HD22	1.97	0.46
1:C:1981:MET:HE2	1:C:1981:MET:N	2.31	0.46
1:C:1991:THR:O	1:C:1995:THR:OG1	2.23	0.46
1:C:2518:LEU:O	1:C:2521:VAL:HG12	2.15	0.46
1:C:2770:LYS:HD2	1:C:2787:THR:HG22	1.98	0.46
1:C:3716:LEU:HD13	1:C:3785:ALA:HB1	1.98	0.46
1:C:4003:LEU:HA	1:C:4009:GLN:NE2	2.31	0.46
1:A:476:SER:O	1:A:480:GLU:HG2	2.16	0.45
1:A:499:THR:OG1	1:A:500:ALA:N	2.48	0.45
1:A:675:LEU:HD23	1:A:1633:PRO:HB3	1.98	0.45
1:A:939:VAL:HG12	1:A:1053:ILE:HG23	1.97	0.45
1:A:1815:LEU:HD22	1:A:1845:VAL:HG21	1.98	0.45
1:A:2196:ASN:OD1	1:A:2199:ARG:NH2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2239:PHE:HA	1:A:2242:ILE:HD12	1.98	0.45
1:A:3935:TRP:CE3	1:B:80:GLU:HG3	2.51	0.45
1:B:255:HIS:CD2	1:B:480:GLU:HG3	2.52	0.45
1:B:472:ARG:NH1	1:B:475:GLN:OE1	2.49	0.45
1:B:632:LEU:O	1:B:634:GLN:NE2	2.46	0.45
1:B:669:ASP:OD2	1:B:788:LYS:NZ	2.49	0.45
1:B:2803:GLU:HB3	1:B:2806:ARG:HE	1.81	0.45
1:D:170:ILE:HD12	1:D:170:ILE:HA	1.79	0.45
1:D:897:ARG:HG3	1:D:905:PRO:HD2	1.98	0.45
1:D:1126:GLY:HA3	1:D:1143:TRP:CD2	2.51	0.45
1:D:2724:GLU:HB2	1:D:2725:LYS:HD2	1.99	0.45
1:D:2827:ARG:NE	1:D:2827:ARG:O	2.49	0.45
1:D:3716:LEU:HD13	1:D:3785:ALA:HB1	1.98	0.45
1:C:266:ARG:O	1:C:270:SER:OG	2.32	0.45
1:C:534:ARG:HE	1:C:534:ARG:HB3	1.47	0.45
1:C:1444:GLU:OE1	1:C:1444:GLU:HA	2.16	0.45
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.15	0.45
1:C:2874:MET:HE3	1:C:2939:ARG:HE	1.80	0.45
1:C:2977:LEU:HA	1:C:2980:VAL:HG22	1.97	0.45
1:A:1763:PRO:HG3	1:A:2094:LEU:HD22	1.97	0.45
1:A:2624:ARG:HD3	1:A:2910:THR:HB	1.97	0.45
1:A:2827:ARG:NE	1:A:2827:ARG:O	2.49	0.45
1:A:4730:ASP:HB2	1:D:4101:LYS:HD3	1.97	0.45
1:B:1974:ARG:NH1	1:B:3642:TYR:HB2	2.31	0.45
1:B:2211:MET:HE3	1:B:2232:CYS:HB3	1.98	0.45
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.16	0.45
1:B:2724:GLU:HB2	1:B:2725:LYS:HD2	1.99	0.45
1:D:1045:THR:HG22	1:D:1049:TYR:CZ	2.52	0.45
1:D:1581:LEU:O	1:D:1584:ARG:HG2	2.16	0.45
1:D:2284:ASN:OD1	1:D:2342:ASN:ND2	2.49	0.45
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.16	0.45
1:D:2788:HIS:CD2	1:D:2789:PRO:HD2	2.51	0.45
1:D:2985:ARG:HG3	1:D:2985:ARG:NH1	2.30	0.45
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.97	0.45
1:C:171:LEU:O	1:C:179:TYR:HA	2.16	0.45
1:C:255:HIS:CD2	1:C:480:GLU:HG3	2.52	0.45
1:C:626:LEU:HB3	1:C:1688:HIS:NE2	2.32	0.45
1:C:1479:GLU:H	1:C:1479:GLU:CD	2.22	0.45
1:C:1730:MET:HE2	1:C:1730:MET:HA	1.97	0.45
1:C:1997:GLU:HB2	1:C:2008:MET:HE3	1.98	0.45
1:C:2805:TYR:O	1:C:2808:PRO:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3659:ALA:HA	1:C:3663:LEU:HD12	1.97	0.45
1:A:255:HIS:CD2	1:A:480:GLU:HG3	2.52	0.45
1:A:262:LEU:HD12	1:A:262:LEU:O	2.16	0.45
1:A:369:LEU:HD12	1:A:369:LEU:H	1.81	0.45
1:A:2512:ILE:HG13	1:A:2565:CYS:SG	2.56	0.45
1:B:76:ARG:NH2	1:B:80:GLU:OE2	2.49	0.45
1:B:883:ALA:O	1:B:887:ILE:HG23	2.16	0.45
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.99	0.45
1:B:2755:ILE:HG12	1:B:2813:LEU:HG	1.99	0.45
1:B:2913:ALA:O	1:B:2917:ALA:N	2.49	0.45
1:B:3788:GLY:HA3	1:B:3834:ALA:HB3	1.98	0.45
1:B:4860:ARG:HG3	1:B:4876:CYS:HB3	1.98	0.45
1:D:590:LEU:HB2	1:D:599:VAL:HG11	1.97	0.45
1:D:1444:GLU:OE1	1:D:1444:GLU:HA	2.16	0.45
1:D:2355:ARG:HG3	1:D:2355:ARG:HH11	1.82	0.45
1:D:3629:ARG:HG3	1:D:3630:ARG:N	2.30	0.45
1:D:3996:PHE:CD2	1:D:4020:GLN:HG2	2.52	0.45
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.17	0.45
1:C:244:LEU:HD13	1:C:375:LYS:HE2	1.98	0.45
1:C:259:LEU:HD21	1:C:393:CYS:HB2	1.97	0.45
1:C:675:LEU:HD23	1:C:1633:PRO:HB3	1.98	0.45
1:C:2203:MET:HG3	1:C:2235:PHE:HZ	1.80	0.45
1:C:2239:PHE:HA	1:C:2242:ILE:HD12	1.99	0.45
1:A:1444:GLU:OE1	1:A:1444:GLU:HA	2.16	0.45
1:A:1581:LEU:O	1:A:1584:ARG:HG2	2.16	0.45
1:A:1747:LEU:HD13	1:A:1957:SER:HB2	1.99	0.45
1:A:2203:MET:HG3	1:A:2235:PHE:HZ	1.81	0.45
1:A:2913:ALA:O	1:A:2917:ALA:N	2.49	0.45
1:B:426:ARG:HH11	1:B:508:GLY:HA2	1.81	0.45
1:B:2310:CYS:H	1:B:2324:ASN:HB2	1.81	0.45
1:B:2756:ASN:O	1:B:2760:GLU:HG2	2.17	0.45
1:B:4015:GLU:HA	1:B:4018:ASP:OD2	2.17	0.45
1:D:1747:LEU:HD13	1:D:1957:SER:HB2	1.99	0.45
1:D:2637:ALA:C	1:D:2640:PRO:HD2	2.41	0.45
1:D:2756:ASN:O	1:D:2760:GLU:HG2	2.17	0.45
1:D:3034:LYS:NZ	1:D:3038:MET:HG3	2.31	0.45
1:C:13:PHE:HE1	1:C:164:ARG:HG2	1.80	0.45
1:C:369:LEU:H	1:C:369:LEU:HD12	1.81	0.45
1:C:975:VAL:HG11	1:C:1044:ARG:HA	1.97	0.45
1:C:1126:GLY:HA3	1:C:1143:TRP:CD2	2.51	0.45
1:C:2265:LEU:HD12	1:C:2265:LEU:HA	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2355:ARG:HG3	1:C:2355:ARG:HH11	1.81	0.45
1:C:2637:ALA:C	1:C:2640:PRO:HD2	2.41	0.45
1:C:2803:GLU:HB3	1:C:2806:ARG:HE	1.81	0.45
1:C:2827:ARG:NE	1:C:2827:ARG:O	2.49	0.45
1:C:3034:LYS:NZ	1:C:3038:MET:HG3	2.31	0.45
1:C:3147:ILE:HG13	1:C:3152:PHE:HB2	1.99	0.45
1:C:3359:ILE:HG23	1:C:3437:MET:HE1	1.99	0.45
1:C:3469:PHE:CE2	1:C:3509:LEU:HD21	2.52	0.45
1:A:3147:ILE:HG13	1:A:3152:PHE:HB2	1.99	0.45
1:A:3659:ALA:HA	1:A:3663:LEU:HD12	1.97	0.45
1:A:3996:PHE:CD2	1:A:4020:GLN:HG2	2.52	0.45
2:G:7:ILE:HA	1:C:719:LEU:HD11	1.98	0.45
2:G:35:LYS:NZ	2:G:38:SER:HB3	2.31	0.45
1:B:894:GLY:HA3	1:B:903:LEU:HD13	1.98	0.45
1:B:1747:LEU:HD13	1:B:1957:SER:HB2	1.99	0.45
1:B:3070:ILE:O	1:B:3074:SER:OG	2.28	0.45
1:B:3384:LYS:HB3	1:B:3384:LYS:HE2	1.66	0.45
1:B:4929:LEU:HD23	1:B:4929:LEU:HA	1.84	0.45
1:D:499:THR:OG1	1:D:500:ALA:N	2.48	0.45
1:D:626:LEU:HB3	1:D:1688:HIS:NE2	2.32	0.45
1:D:669:ASP:OD2	1:D:788:LYS:NZ	2.49	0.45
1:D:1128:ARG:HB3	1:D:1130:GLN:NE2	2.32	0.45
1:D:1248:VAL:HG22	1:D:1599:MET:HB3	1.97	0.45
1:D:1634:LEU:HD23	1:D:1634:LEU:HA	1.84	0.45
1:D:4003:LEU:HA	1:D:4009:GLN:NE2	2.31	0.45
1:C:426:ARG:HH11	1:C:508:GLY:HA2	1.81	0.45
1:C:1252:HIS:HD2	1:C:1255:TYR:HB2	1.81	0.45
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.17	0.45
1:C:2755:ILE:HG12	1:C:2813:LEU:HG	1.99	0.45
1:C:2756:ASN:O	1:C:2760:GLU:HG2	2.17	0.45
1:A:1280:GLN:CD	1:A:1281:ASN:H	2.23	0.45
1:A:1990:GLU:HA	1:A:1993:ARG:NH2	2.29	0.45
1:A:2101:MET:HE3	1:A:2105:TRP:CD2	2.52	0.45
1:A:2369[B]:ARG:HD3	1:A:2369[B]:ARG:HA	1.56	0.45
1:A:2770:LYS:HD2	1:A:2787:THR:HG22	1.98	0.45
1:A:4015:GLU:HA	1:A:4018:ASP:OD2	2.17	0.45
1:A:4122:MET:HE2	1:A:4122:MET:HA	1.98	0.45
1:B:1996:ARG:HA	1:B:1996:ARG:NE	2.32	0.45
1:B:2512:ILE:HG13	1:B:2565:CYS:SG	2.56	0.45
1:B:2518:LEU:HD22	1:B:2565:CYS:HB3	1.98	0.45
1:B:2624:ARG:CZ	1:B:2910:THR:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2827:ARG:O	1:B:2827:ARG:NE	2.49	0.45
1:B:3061:ALA:O	1:B:3065:VAL:HG13	2.17	0.45
1:B:3576:TYR:CE1	1:B:3582:ARG:HD3	2.52	0.45
1:D:255:HIS:CD2	1:D:480:GLU:HG3	2.52	0.45
1:D:894:GLY:HA3	1:D:903:LEU:HD13	1.98	0.45
1:D:939:VAL:HG12	1:D:1053:ILE:HG23	1.97	0.45
1:D:1449:TRP:N	1:D:1553:PHE:O	2.50	0.45
1:D:1613:LEU:HG	1:D:1630:CYS:SG	2.57	0.45
1:D:1738:LEU:HD13	1:D:1963:GLU:HG3	1.97	0.45
1:D:2042:CYS:HB2	1:D:2044:ILE:HG22	1.99	0.45
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.17	0.45
1:D:2430:ILE:HG21	1:D:2502:MET:HE3	1.98	0.45
1:D:3378:GLN:HA	1:D:3381:LEU:HD23	1.98	0.45
1:D:3391:GLU:O	1:D:3394:VAL:HG12	2.17	0.45
1:D:3514:LEU:HD12	1:D:3606:LEU:HD13	1.97	0.45
1:D:3537:LYS:NZ	1:D:3607:GLU:HG2	2.32	0.45
1:D:3981:ALA:HB2	1:D:4040:ILE:HD11	1.97	0.45
1:D:4015:GLU:HA	1:D:4018:ASP:OD2	2.17	0.45
1:C:2001:PRO:O	1:C:2005:GLN:HG3	2.17	0.45
1:C:2512:ILE:HG13	1:C:2565:CYS:SG	2.56	0.45
1:C:2816:MET:O	1:C:2821:TRP:HB2	2.16	0.45
1:C:3378:GLN:HA	1:C:3381:LEU:HD23	1.98	0.45
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	1.98	0.45
1:C:3802:ILE:HD11	1:C:3883:ASP:O	2.16	0.45
1:C:3996:PHE:CD2	1:C:4020:GLN:HG2	2.52	0.45
1:A:244:LEU:HD13	1:A:375:LYS:HE2	1.98	0.45
1:A:1208:VAL:HG21	1:D:3575:LEU:HD11	1.95	0.45
1:A:1226:PHE:O	1:A:1827:ARG:NH2	2.42	0.45
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.82	0.45
1:A:2355:ARG:HG3	1:A:2355:ARG:HH11	1.82	0.45
1:A:2803:GLU:HB3	1:A:2806:ARG:HE	1.81	0.45
1:A:3537:LYS:NZ	1:A:3607:GLU:HG2	2.32	0.45
1:A:3576:TYR:CE1	1:A:3582:ARG:HD3	2.52	0.45
1:A:3576:TYR:OH	1:A:3582:ARG:NH1	2.50	0.45
2:F:44:LYS:NZ	2:F:44:LYS:HB3	2.31	0.45
1:B:214:VAL:HG13	1:B:341:TYR:HE2	1.82	0.45
1:B:1128:ARG:HB3	1:B:1130:GLN:NE2	2.32	0.45
1:B:2430:ILE:HG21	1:B:2502:MET:HE3	1.98	0.45
1:B:2788:HIS:CD2	1:B:2789:PRO:HD2	2.51	0.45
1:B:3469:PHE:CE2	1:B:3509:LEU:HD21	2.52	0.45
1:B:3537:LYS:NZ	1:B:3607:GLU:HG2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3576:TYR:OH	1:B:3582:ARG:NH1	2.50	0.45
1:D:76:ARG:NH2	1:D:80:GLU:OE2	2.49	0.45
1:D:76:ARG:HH11	1:D:76:ARG:HG3	1.82	0.45
1:D:534:ARG:HE	1:D:534:ARG:HB3	1.47	0.45
1:D:1815:LEU:HD22	1:D:1845:VAL:HG21	1.99	0.45
1:D:2044:ILE:HD13	1:D:2131:LEU:HD22	1.99	0.45
1:D:2101:MET:HE3	1:D:2105:TRP:CD2	2.52	0.45
1:D:2512:ILE:HG13	1:D:2565:CYS:SG	2.56	0.45
1:D:3535:LEU:O	1:D:3538:THR:OG1	2.25	0.45
1:D:3659:ALA:HA	1:D:3663:LEU:HD12	1.97	0.45
1:D:4826:ILE:O	1:D:4829:SER:OG	2.31	0.45
1:D:4911:LEU:HD23	1:D:4911:LEU:HA	1.77	0.45
1:C:273:HIS:O	1:C:275:ARG:NE	2.44	0.45
1:C:1128:ARG:HB3	1:C:1130:GLN:NE2	2.32	0.45
1:C:1996:ARG:NE	1:C:1996:ARG:HA	2.32	0.45
1:C:4015:GLU:HA	1:C:4018:ASP:OD2	2.17	0.45
1:A:171:LEU:O	1:A:179:TYR:HA	2.16	0.45
1:A:938:HIS:ND1	1:A:1054:GLU:OE2	2.45	0.45
1:A:1126:GLY:HA3	1:A:1143:TRP:CD2	2.51	0.45
1:A:1738:LEU:HD13	1:A:1963:GLU:HG3	1.97	0.45
1:A:1819:VAL:HG22	1:A:1929:MET:HE1	1.99	0.45
1:A:2204:HIS:HA	1:A:2235:PHE:HE1	1.81	0.45
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.16	0.45
1:A:3391:GLU:O	1:A:3394:VAL:HG12	2.17	0.45
1:A:3716:LEU:HD13	1:A:3785:ALA:HB1	1.98	0.45
1:A:4057:MET:HE3	1:A:4057:MET:HB2	1.80	0.45
1:B:188:GLU:OE1	1:B:188:GLU:N	2.39	0.45
1:B:1089:TYR:CE1	1:B:1152:MET:HE2	2.51	0.45
1:B:1126:GLY:HA3	1:B:1143:TRP:CD2	2.51	0.45
1:B:1613:LEU:HG	1:B:1630:CYS:SG	2.57	0.45
1:B:1981:MET:HE2	1:B:1981:MET:N	2.31	0.45
1:B:3034:LYS:NZ	1:B:3038:MET:HG3	2.31	0.45
1:B:3147:ILE:HG13	1:B:3152:PHE:HB2	1.99	0.45
1:B:3802:ILE:HD11	1:B:3883:ASP:O	2.16	0.45
1:B:4956:THR:O	1:B:4965:SER:N	2.50	0.45
1:D:214:VAL:HG13	1:D:341:TYR:HE2	1.82	0.45
1:D:975:VAL:HG11	1:D:1044:ARG:HA	1.98	0.45
1:D:2001:PRO:O	1:D:2005:GLN:HG3	2.17	0.45
1:D:3102:ASP:OD1	1:D:3105:LYS:NZ	2.36	0.45
1:D:3371:LYS:HE2	1:D:3371:LYS:HB2	1.78	0.45
1:D:3946:GLN:H	1:D:3946:GLN:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:MET:HE3	1:C:127:MET:N	2.26	0.45
1:C:1045:THR:HG22	1:C:1049:TYR:CZ	2.52	0.45
1:C:2513:GLU:CD	1:C:2513:GLU:H	2.25	0.45
1:C:2518:LEU:HD22	1:C:2565:CYS:HB3	1.98	0.45
1:C:2624:ARG:HD3	1:C:2910:THR:HB	1.97	0.45
1:C:2624:ARG:CZ	1:C:2910:THR:HA	2.47	0.45
1:C:2974:ILE:HG13	1:C:2975:ALA:N	2.32	0.45
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.97	0.45
1:C:3756:LYS:HG2	1:C:3760:LYS:HE2	1.99	0.45
1:A:1974:ARG:NH1	1:A:3642:TYR:HB2	2.31	0.45
1:A:2788:HIS:CD2	1:A:2789:PRO:HD2	2.51	0.45
1:A:3469:PHE:CE2	1:A:3509:LEU:HD21	2.52	0.45
1:B:76:ARG:HG3	1:B:76:ARG:HH11	1.82	0.45
1:B:626:LEU:HB3	1:B:1688:HIS:NE2	2.32	0.45
1:B:978:THR:O	1:B:982:THR:HG23	2.17	0.45
1:B:1819:VAL:HG22	1:B:1929:MET:HE1	1.99	0.45
1:B:2203:MET:HG3	1:B:2235:PHE:HZ	1.81	0.45
1:B:2355:ARG:HG3	1:B:2355:ARG:HH11	1.82	0.45
1:B:3269:VAL:HA	1:B:3273:THR:HB	1.99	0.45
1:B:3337:ARG:HA	1:B:3340:VAL:HG22	1.99	0.45
1:D:1005:TRP:HA	1:D:1016:ARG:HG2	1.99	0.45
1:D:1728:ARG:HA	1:D:1731:LEU:HD12	1.99	0.45
1:D:2095:GLN:HA	1:D:2127:GLN:HE21	1.82	0.45
1:D:2285:GLU:H	1:D:2285:GLU:CD	2.19	0.45
1:D:2806:ARG:HG3	1:D:2810:LYS:HZ3	1.81	0.45
1:D:3469:PHE:CE2	1:D:3509:LEU:HD21	2.52	0.45
1:D:4067:LYS:HE3	1:D:4102:GLN:HB3	1.98	0.45
1:C:1613:LEU:HG	1:C:1630:CYS:SG	2.57	0.45
1:C:1962:ALA:O	1:C:1966:VAL:HG22	2.17	0.45
1:C:3269:VAL:HA	1:C:3273:THR:HB	1.99	0.45
1:C:4680:LYS:HE2	1:C:4680:LYS:HB2	1.73	0.45
1:C:4860:ARG:HG3	1:C:4876:CYS:HB3	1.98	0.45
1:A:214:VAL:HG13	1:A:341:TYR:HE2	1.82	0.45
1:A:978:THR:O	1:A:982:THR:HG23	2.17	0.45
1:A:1045:THR:HG22	1:A:1049:TYR:CZ	2.52	0.45
1:A:1128:ARG:HB3	1:A:1130:GLN:NE2	2.32	0.45
1:A:1252:HIS:HD2	1:A:1255:TYR:HB2	1.80	0.45
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.25	0.45
1:A:1613:LEU:HG	1:A:1630:CYS:SG	2.57	0.45
1:A:1730:MET:HE2	1:A:1730:MET:HA	1.97	0.45
1:A:1753:LYS:NZ	1:A:1759:ARG:HG2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1996:ARG:NE	1:A:1996:ARG:HA	2.32	0.45
1:A:2044:ILE:HD13	1:A:2131:LEU:HD22	1.99	0.45
1:A:2211:MET:HE3	1:A:2232:CYS:HB3	1.98	0.45
1:A:2653:LYS:HB2	1:A:2653:LYS:HE2	1.72	0.45
1:A:2671:GLU:H	1:A:2671:GLU:HG2	1.61	0.45
1:A:2755:ILE:HG12	1:A:2813:LEU:HG	1.99	0.45
1:A:2805:TYR:O	1:A:2808:PRO:HD2	2.16	0.45
1:A:2974:ILE:HG13	1:A:2975:ALA:N	2.32	0.45
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	1.99	0.45
2:H:7:ILE:HA	1:D:719:LEU:HD11	1.98	0.45
2:H:35:LYS:NZ	2:H:38:SER:HB3	2.32	0.45
1:B:257:ARG:O	1:B:284:HIS:NE2	2.28	0.45
1:B:3390:GLY:O	1:B:3393:LEU:HG	2.17	0.45
1:B:4074:SER:O	1:B:4078:GLN:HG2	2.17	0.45
1:B:4673:ARG:HH12	1:B:4698:LYS:HD2	1.82	0.45
1:D:848:HIS:O	1:D:852:VAL:HG23	2.17	0.45
1:C:2101:MET:HE3	1:C:2105:TRP:CD2	2.52	0.45
1:C:2430:ILE:HG21	1:C:2502:MET:HE3	1.98	0.45
1:C:4673:ARG:HH12	1:C:4698:LYS:HD2	1.82	0.45
1:A:76:ARG:NH2	1:A:80:GLU:OE2	2.49	0.44
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.17	0.44
1:A:3390:GLY:O	1:A:3393:LEU:HG	2.17	0.44
1:A:3946:GLN:H	1:A:3946:GLN:CD	2.23	0.44
1:A:4067:LYS:HE3	1:A:4102:GLN:HB3	1.98	0.44
1:A:4077:PHE:HE1	1:A:4125:PHE:CD2	2.35	0.44
2:F:19:GLY:C	2:F:49:MET:HE2	2.42	0.44
1:B:2044:ILE:HD13	1:B:2131:LEU:HD22	1.99	0.44
1:B:2101:MET:HE3	1:B:2105:TRP:CD2	2.52	0.44
1:B:2116:LEU:O	1:B:2120:MET:HG2	2.17	0.44
1:B:2369[B]:ARG:HA	1:B:2369[B]:ARG:HD3	1.57	0.44
1:B:2870[A]:GLU:HG3	1:B:2874:MET:HE3	2.00	0.44
1:B:3260:GLY:HA2	1:B:3325:ASN:ND2	2.33	0.44
1:B:3716:LEU:HD13	1:B:3785:ALA:HB1	1.98	0.44
1:B:4077:PHE:HE1	1:B:4125:PHE:CD2	2.35	0.44
1:B:4097:MET:HE2	1:B:4108:ILE:HG12	1.99	0.44
1:B:4230:LYS:HG2	1:B:4231:MET:CE	2.46	0.44
1:D:828:GLU:OE1	1:D:828:GLU:N	2.41	0.44
1:D:872:GLU:O	1:D:876:GLU:HG3	2.18	0.44
1:D:1730:MET:HE2	1:D:1730:MET:HA	1.97	0.44
1:D:1819:VAL:HG22	1:D:1929:MET:HE1	1.99	0.44
1:D:3359:ILE:HG23	1:D:3437:MET:HE1	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3756:LYS:HG2	1:D:3760:LYS:HE2	1.99	0.44
1:D:3802:ILE:HD11	1:D:3883:ASP:O	2.17	0.44
1:D:4122:MET:HE2	1:D:4122:MET:HA	1.98	0.44
1:C:683:ARG:NH1	1:C:709:ASP:OD1	2.45	0.44
1:C:1005:TRP:HA	1:C:1016:ARG:HG2	1.99	0.44
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.16	0.44
1:C:2477:PRO:HD2	1:C:2536:LEU:HD21	1.98	0.44
1:C:2788:HIS:CD2	1:C:2789:PRO:HD2	2.51	0.44
1:C:3061:ALA:O	1:C:3065:VAL:HG13	2.17	0.44
1:C:3535:LEU:O	1:C:3538:THR:OG1	2.25	0.44
1:C:3715:LYS:HD2	1:C:3715:LYS:C	2.43	0.44
1:A:76:ARG:HH11	1:A:76:ARG:HG3	1.82	0.44
1:A:3061:ALA:O	1:A:3065:VAL:HG13	2.17	0.44
1:A:3206:LEU:HB3	1:A:3246:LEU:HB2	2.00	0.44
1:A:3715:LYS:HD2	1:A:3715:LYS:C	2.43	0.44
1:A:4911:LEU:HD23	1:A:4911:LEU:HA	1.77	0.44
1:A:4956:THR:O	1:A:4965:SER:N	2.50	0.44
1:B:164:ARG:NH1	1:B:164:ARG:HG3	2.32	0.44
1:B:887:ILE:HG21	1:B:955:LEU:HD11	2.00	0.44
1:B:1180:ARG:O	1:B:1181:GLU:HG3	2.17	0.44
1:B:2624:ARG:HD3	1:B:2910:THR:HB	1.97	0.44
1:B:3391:GLU:O	1:B:3394:VAL:HG12	2.17	0.44
1:B:3936:TYR:HA	1:C:76:ARG:NH2	2.28	0.44
1:D:392:ARG:HE	1:D:393:CYS:H	1.65	0.44
1:D:1996:ARG:NE	1:D:1996:ARG:HA	2.31	0.44
1:D:2755:ILE:HG12	1:D:2813:LEU:HG	1.99	0.44
1:C:76:ARG:HH11	1:C:76:ARG:HG3	1.82	0.44
1:C:796:ARG:HA	1:C:796:ARG:CZ	2.48	0.44
1:C:872:GLU:O	1:C:876:GLU:HG3	2.18	0.44
1:C:887:ILE:HG21	1:C:955:LEU:HD11	2.00	0.44
1:C:1180:ARG:O	1:C:1181:GLU:HG3	2.17	0.44
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.82	0.44
1:C:1547:LYS:HB2	1:C:1547:LYS:HE2	1.80	0.44
1:C:1747:LEU:HD13	1:C:1957:SER:HB2	1.99	0.44
1:C:3477:LYS:O	1:C:3478:MET:HB2	2.17	0.44
1:A:266:ARG:O	1:A:270:SER:OG	2.32	0.44
1:A:828:GLU:OE1	1:A:828:GLU:N	2.41	0.44
1:A:1962:ALA:O	1:A:1966:VAL:HG22	2.17	0.44
1:A:2285:GLU:H	1:A:2285:GLU:CD	2.18	0.44
1:A:2756:ASN:O	1:A:2760:GLU:HG2	2.17	0.44
1:A:2986:VAL:HG22	1:A:2989:SER:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:796:ARG:CZ	1:B:796:ARG:HA	2.48	0.44
1:B:1653:LEU:HD11	1:B:1659:LEU:HB3	2.00	0.44
1:B:2239:PHE:HA	1:B:2242:ILE:HD12	1.98	0.44
1:B:2513:GLU:H	1:B:2513:GLU:CD	2.25	0.44
1:B:2974:ILE:HG13	1:B:2975:ALA:N	2.32	0.44
1:B:3206:LEU:HB3	1:B:3246:LEU:HB2	2.00	0.44
1:B:3249:LEU:HD12	1:B:3249:LEU:HA	1.87	0.44
1:B:3403:ARG:HA	1:B:3458:PHE:CE2	2.53	0.44
1:B:3659:ALA:HA	1:B:3663:LEU:HD12	1.98	0.44
1:D:675:LEU:HD23	1:D:1633:PRO:HB3	1.98	0.44
1:D:1112:ASP:OD1	1:D:1112:ASP:N	2.44	0.44
1:D:1180:ARG:O	1:D:1181:GLU:HG3	2.17	0.44
1:D:1962:ALA:O	1:D:1966:VAL:HG22	2.17	0.44
1:D:2239:PHE:HA	1:D:2242:ILE:HD12	1.98	0.44
1:D:2974:ILE:HG13	1:D:2975:ALA:N	2.32	0.44
1:D:3147:ILE:HG13	1:D:3152:PHE:HB2	1.99	0.44
1:D:3403:ARG:HA	1:D:3458:PHE:CE2	2.52	0.44
1:D:4860:ARG:HG3	1:D:4876:CYS:HB3	1.98	0.44
1:C:626:LEU:HB3	1:C:1688:HIS:HE2	1.83	0.44
1:C:1449:TRP:N	1:C:1553:PHE:O	2.50	0.44
1:C:2865:VAL:O	1:C:2928:LYS:NZ	2.41	0.44
1:C:3391:GLU:O	1:C:3394:VAL:HG12	2.17	0.44
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.17	0.44
1:A:626:LEU:HB3	1:A:1688:HIS:NE2	2.32	0.44
1:A:796:ARG:HA	1:A:796:ARG:CZ	2.48	0.44
1:A:2207:VAL:HA	1:A:2210:VAL:HG22	1.99	0.44
1:A:2513:GLU:CD	1:A:2513:GLU:H	2.25	0.44
1:A:3260:GLY:HA2	1:A:3325:ASN:ND2	2.33	0.44
1:A:3354:LEU:HB3	1:A:3415:TYR:CZ	2.51	0.44
1:A:3359:ILE:HG23	1:A:3437:MET:HE1	1.98	0.44
1:A:3802:ILE:HD11	1:A:3883:ASP:O	2.17	0.44
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.17	0.44
2:F:90:ILE:HD13	1:B:1782:PHE:CD1	2.52	0.44
1:B:265:LEU:HD23	1:B:265:LEU:H	1.83	0.44
1:B:848:HIS:O	1:B:852:VAL:HG23	2.17	0.44
1:B:951:LYS:HG3	1:B:971:ASP:HB3	2.00	0.44
1:B:1045:THR:HG22	1:B:1049:TYR:CZ	2.52	0.44
1:B:2986:VAL:HG22	1:B:2989:SER:H	1.82	0.44
1:B:3535:LEU:O	1:B:3538:THR:OG1	2.25	0.44
1:B:3946:GLN:H	1:B:3946:GLN:CD	2.23	0.44
1:D:280:LEU:HD21	1:D:316:PHE:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2211:MET:HE3	1:D:2232:CYS:HB3	1.98	0.44
1:D:3043:PHE:HA	1:D:3071:LEU:HD23	2.00	0.44
1:D:3061:ALA:O	1:D:3065:VAL:HG13	2.17	0.44
1:D:3106:MET:HE2	1:D:3106:MET:HB2	1.75	0.44
1:D:3596:VAL:O	1:D:3600:SER:OG	2.26	0.44
1:D:4071:ILE:HD13	1:D:4071:ILE:HA	1.79	0.44
1:D:4673:ARG:HH12	1:D:4698:LYS:HD2	1.82	0.44
1:C:214:VAL:HG13	1:C:341:TYR:HE2	1.82	0.44
1:C:317:ARG:NE	1:C:349:GLN:OE1	2.51	0.44
1:C:392:ARG:HE	1:C:393:CYS:H	1.65	0.44
1:C:1451:GLY:HA3	1:C:1494:MET:HA	2.00	0.44
1:C:1634:LEU:HD23	1:C:1634:LEU:HA	1.84	0.44
1:C:1815:LEU:HD22	1:C:1845:VAL:HG21	1.98	0.44
1:C:2044:ILE:HD13	1:C:2131:LEU:HD22	1.99	0.44
1:C:2211:MET:HE3	1:C:2232:CYS:HB3	1.98	0.44
1:C:2870[A]:GLU:HG3	1:C:2874:MET:HE3	2.00	0.44
1:C:2892:GLN:HA	1:C:2895:GLU:HG2	2.00	0.44
1:C:3576:TYR:CE1	1:C:3582:ARG:HD3	2.52	0.44
1:C:4077:PHE:HE1	1:C:4125:PHE:CD2	2.35	0.44
1:A:872:GLU:O	1:A:876:GLU:HG3	2.18	0.44
1:A:2724:GLU:HB2	1:A:2725:LYS:HD2	1.99	0.44
1:A:3262:ARG:HA	1:A:3262:ARG:HD3	1.66	0.44
1:A:3791:GLY:O	1:A:3794:VAL:HG12	2.17	0.44
1:A:4074:SER:O	1:A:4078:GLN:HG2	2.17	0.44
2:G:19:GLY:C	2:G:49:MET:HE2	2.42	0.44
1:B:2477:PRO:HD3	1:B:2546:MET:HG2	2.00	0.44
1:D:626:LEU:HB3	1:D:1688:HIS:HE2	1.83	0.44
1:D:632:LEU:O	1:D:634:GLN:NE2	2.46	0.44
1:D:2395:PRO:HB2	1:D:2397:VAL:HG23	2.00	0.44
1:D:2638:LYS:O	1:D:2641:LEU:HG	2.18	0.44
1:D:2788:HIS:HB3	1:D:2791:LEU:HG	2.00	0.44
1:D:3206:LEU:HB3	1:D:3246:LEU:HB2	2.00	0.44
1:D:4730:ASP:HB2	1:C:4101:LYS:HD3	1.99	0.44
1:C:349:GLN:HB3	1:C:356:TRP:CE3	2.53	0.44
1:C:848:HIS:O	1:C:852:VAL:HG23	2.17	0.44
1:C:894:GLY:HA3	1:C:903:LEU:HD13	1.98	0.44
1:C:2042:CYS:HB2	1:C:2044:ILE:HG22	1.99	0.44
1:C:2638:LYS:O	1:C:2641:LEU:HG	2.18	0.44
1:C:3206:LEU:HB3	1:C:3246:LEU:HB2	2.00	0.44
1:C:3390:GLY:O	1:C:3393:LEU:HG	2.17	0.44
1:C:4067:LYS:HE3	1:C:4102:GLN:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:LEU:HD22	1:A:106:ALA:CB	2.48	0.44
1:A:921:ASN:OD1	1:A:921:ASN:N	2.51	0.44
1:A:1180:ARG:O	1:A:1181:GLU:HG3	2.17	0.44
1:A:1653:LEU:HD11	1:A:1659:LEU:HB3	2.00	0.44
1:A:2477:PRO:HD3	1:A:2546:MET:HG2	2.00	0.44
1:A:2870[A]:GLU:HG3	1:A:2874:MET:HE3	2.00	0.44
1:A:3269:VAL:HA	1:A:3273:THR:HB	1.99	0.44
1:A:3498:ARG:HB2	1:A:3499:ARG:H	1.58	0.44
1:A:4673:ARG:HH12	1:A:4698:LYS:HD2	1.82	0.44
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.17	0.44
2:F:89:GLY:HA2	1:B:627:PRO:HD3	1.98	0.44
1:B:708:GLY:HA3	1:B:722:TRP:HB3	1.99	0.44
1:B:1066:GLN:HG3	1:B:1070:ASP:OD1	2.18	0.44
1:B:1451:GLY:HA3	1:B:1494:MET:HA	2.00	0.44
1:B:1962:ALA:O	1:B:1966:VAL:HG22	2.17	0.44
1:B:2001:PRO:O	1:B:2005:GLN:HG3	2.17	0.44
1:B:2638:LYS:O	1:B:2641:LEU:HG	2.18	0.44
1:B:3479:ALA:HA	1:C:1141:ARG:HB2	2.00	0.44
1:B:3715:LYS:HD2	1:B:3715:LYS:C	2.43	0.44
1:B:3996:PHE:CD2	1:B:4020:GLN:HG2	2.52	0.44
1:B:4122:MET:HA	1:B:4122:MET:HE2	1.98	0.44
1:D:796:ARG:CZ	1:D:796:ARG:HA	2.48	0.44
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.82	0.44
1:D:1759:ARG:HA	1:D:1759:ARG:NH1	2.33	0.44
1:D:2624:ARG:CZ	1:D:2910:THR:HA	2.47	0.44
1:D:2707:ALA:HB1	1:D:3009:TYR:CD1	2.53	0.44
1:D:3209:GLN:H	1:D:3209:GLN:CD	2.26	0.44
1:D:4926:VAL:CG1	1:C:4933:GLN:HG3	2.48	0.44
1:C:78:LEU:HD22	1:C:106:ALA:CB	2.48	0.44
1:C:164:ARG:NH1	1:C:164:ARG:HG3	2.32	0.44
1:C:265:LEU:HD23	1:C:265:LEU:H	1.83	0.44
1:C:951:LYS:HG3	1:C:971:ASP:HB3	2.00	0.44
1:C:1066:GLN:HG3	1:C:1070:ASP:OD1	2.18	0.44
1:C:1728:ARG:HA	1:C:1731:LEU:HD12	1.99	0.44
1:C:3043:PHE:HA	1:C:3071:LEU:HD23	2.00	0.44
1:C:3337:ARG:HA	1:C:3340:VAL:HG22	1.99	0.44
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.17	0.44
1:A:280:LEU:HD21	1:A:316:PHE:HD1	1.83	0.44
1:A:392:ARG:HE	1:A:393:CYS:H	1.65	0.44
1:A:1005:TRP:HA	1:A:1016:ARG:HG2	1.99	0.44
1:A:1066:GLN:HG3	1:A:1070:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2788:HIS:HB3	1:A:2791:LEU:HG	2.00	0.44
1:A:2907:PRO:HB2	1:A:2910:THR:HG23	2.00	0.44
1:A:3182:TYR:HA	1:A:3185:LYS:HG2	2.00	0.44
1:A:3337:ARG:HA	1:A:3340:VAL:HG22	1.99	0.44
1:A:3477:LYS:NZ	1:B:1141:ARG:HG3	2.18	0.44
1:A:3477:LYS:HZ3	1:B:1141:ARG:HD3	1.08	0.44
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	1.99	0.44
1:B:45:ARG:HA	1:B:45:ARG:HD3	1.74	0.44
1:B:426:ARG:HG3	1:B:431:PRO:HA	2.00	0.44
1:B:688:LEU:HD12	1:B:776:LEU:O	2.18	0.44
1:B:872:GLU:O	1:B:876:GLU:HG3	2.18	0.44
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.82	0.44
1:B:2240:CYS:SG	1:B:2250:MET:HG3	2.58	0.44
1:B:2892:GLN:HA	1:B:2895:GLU:HG2	2.00	0.44
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	1.99	0.44
1:B:4989:MET:HE3	1:B:4989:MET:HB3	1.87	0.44
1:D:164:ARG:NH1	1:D:164:ARG:HG3	2.32	0.44
1:D:317:ARG:NE	1:D:349:GLN:OE1	2.51	0.44
1:D:978:THR:O	1:D:982:THR:HG23	2.17	0.44
1:D:1302:ARG:HH21	1:D:1523:ALA:HB3	1.83	0.44
1:D:2513:GLU:H	1:D:2513:GLU:CD	2.25	0.44
1:D:2870[A]:GLU:HG3	1:D:2874:MET:HE3	2.00	0.44
1:D:3576:TYR:CE1	1:D:3582:ARG:HD3	2.52	0.44
1:D:3715:LYS:HD2	1:D:3715:LYS:C	2.43	0.44
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	1.99	0.44
1:D:4077:PHE:HE1	1:D:4125:PHE:CD2	2.35	0.44
1:C:886:ARG:HD3	1:C:904:HIS:CD2	2.53	0.44
1:C:1000:ARG:HB3	1:C:1005:TRP:HB2	2.00	0.44
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.18	0.44
1:C:2672:LEU:HA	1:C:2672:LEU:HD23	1.81	0.44
1:C:3260:GLY:HA2	1:C:3325:ASN:ND2	2.33	0.44
1:C:4074:SER:O	1:C:4078:GLN:HG2	2.17	0.44
1:A:170:ILE:HD12	1:A:170:ILE:HA	1.80	0.44
1:A:317:ARG:NE	1:A:349:GLN:OE1	2.51	0.44
1:A:951:LYS:HG3	1:A:971:ASP:HB3	2.00	0.44
1:A:1449:TRP:N	1:A:1553:PHE:O	2.50	0.44
1:A:2001:PRO:O	1:A:2005:GLN:HG3	2.17	0.44
1:A:2458:ARG:HG2	1:A:2510:TYR:CE1	2.53	0.44
1:A:3230:LEU:HD23	1:A:3230:LEU:H	1.83	0.44
1:A:4628:VAL:HG21	1:B:4860:ARG:HH22	1.83	0.44
1:B:214:VAL:HG13	1:B:341:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:392:ARG:HE	1:B:393:CYS:H	1.65	0.44
1:B:1005:TRP:HA	1:B:1016:ARG:HG2	1.99	0.44
1:B:1828:ASP:OD1	1:B:1828:ASP:N	2.51	0.44
1:B:2207:VAL:HA	1:B:2210:VAL:HG22	1.99	0.44
1:B:2907:PRO:HB2	1:B:2910:THR:HG23	2.00	0.44
1:B:3182:TYR:HA	1:B:3185:LYS:HG2	2.00	0.44
1:D:887:ILE:HG21	1:D:955:LEU:HD11	2.00	0.44
1:D:951:LYS:HG3	1:D:971:ASP:HB3	2.00	0.44
1:D:1466:LEU:HA	1:D:1469:VAL:HG23	2.00	0.44
1:D:2803:GLU:HB3	1:D:2806:ARG:HE	1.81	0.44
1:D:2986:VAL:HG22	1:D:2989:SER:H	1.82	0.44
1:D:3269:VAL:HA	1:D:3273:THR:HB	1.99	0.44
1:D:4956:THR:O	1:D:4965:SER:N	2.50	0.44
1:C:688:LEU:HD12	1:C:776:LEU:O	2.18	0.44
1:C:978:THR:O	1:C:982:THR:HG23	2.17	0.44
1:C:1773:PRO:HA	1:C:1774:PRO:HD3	1.91	0.44
1:C:1819:VAL:HG22	1:C:1929:MET:HE1	1.99	0.44
1:C:3805:LEU:HB3	1:C:3890:LEU:HB3	1.99	0.44
1:C:4122:MET:HE2	1:C:4122:MET:HA	1.98	0.44
1:C:4904:PRO:HB3	1:C:4913:ARG:HG2	2.00	0.44
1:A:14:LEU:HD13	1:A:163:VAL:HG12	2.00	0.44
1:A:110:ARG:NH2	1:A:117:TYR:OH	2.51	0.44
1:A:1728:ARG:HA	1:A:1731:LEU:HD12	1.99	0.44
1:A:2224:ARG:HB2	1:A:2224:ARG:HH11	1.83	0.44
1:A:2265:LEU:HD12	1:A:2265:LEU:HA	1.75	0.44
1:A:2321:ILE:HG22	1:A:2322:GLY:H	1.83	0.44
1:A:2395:PRO:HB2	1:A:2397:VAL:HG23	2.00	0.44
1:A:2430:ILE:HG21	1:A:2502:MET:HE3	1.98	0.44
1:A:2624:ARG:CZ	1:A:2910:THR:HA	2.47	0.44
1:A:2638:LYS:O	1:A:2641:LEU:HG	2.18	0.44
1:A:2707:ALA:HB1	1:A:3009:TYR:CD1	2.53	0.44
1:A:2886:TRP:NE1	1:A:2890:LYS:HD3	2.33	0.44
1:A:3043:PHE:HA	1:A:3071:LEU:HD23	2.00	0.44
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	2.00	0.44
1:A:3403:ARG:HA	1:A:3458:PHE:CE2	2.53	0.44
1:A:3477:LYS:O	1:A:3478:MET:HB2	2.17	0.44
1:A:3756:LYS:HG2	1:A:3760:LYS:HE2	1.99	0.44
1:A:4097:MET:HE2	1:A:4108:ILE:HG12	1.99	0.44
2:E:35:LYS:HZ1	2:E:38:SER:HB3	1.82	0.44
1:B:1753:LYS:NZ	1:B:1759:ARG:HG2	2.29	0.44
1:B:2095:GLN:HA	1:B:2127:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2321:ILE:HG22	1:B:2322:GLY:H	1.83	0.44
1:B:3106:MET:HE2	1:B:3106:MET:HB2	1.75	0.44
1:B:3534:MET:O	1:B:3538:THR:HG23	2.18	0.44
1:B:3791:GLY:O	1:B:3794:VAL:HG12	2.17	0.44
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.17	0.44
1:B:4933:GLN:HG3	1:C:4926:VAL:CG1	2.47	0.44
1:D:2886:TRP:NE1	1:D:2890:LYS:HD3	2.33	0.44
1:D:3390:GLY:O	1:D:3393:LEU:HG	2.17	0.44
1:D:3576:TYR:OH	1:D:3582:ARG:NH1	2.50	0.44
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.25	0.44
1:C:2724:GLU:HB2	1:C:2725:LYS:HD2	1.99	0.44
1:C:2907:PRO:HB2	1:C:2910:THR:HG23	2.00	0.44
1:C:3537:LYS:NZ	1:C:3607:GLU:HG2	2.32	0.44
1:C:4097:MET:HE2	1:C:4108:ILE:HG12	2.00	0.44
1:A:214:VAL:HG13	1:A:341:TYR:CE2	2.53	0.43
1:A:626:LEU:HB3	1:A:1688:HIS:HE2	1.83	0.43
1:A:632:LEU:O	1:A:634:GLN:NE2	2.46	0.43
1:A:848:HIS:O	1:A:852:VAL:HG23	2.17	0.43
1:A:1451:GLY:HA3	1:A:1494:MET:HA	2.00	0.43
1:A:2318:TYR:CZ	1:A:2395:PRO:HD3	2.53	0.43
1:A:3537:LYS:HZ1	1:A:3607:GLU:HG2	1.83	0.43
2:H:23:VAL:HG12	2:H:104:LEU:HB2	2.00	0.43
1:B:280:LEU:HD21	1:B:316:PHE:HD1	1.83	0.43
1:B:460:GLN:HB2	1:B:463:GLU:OE2	2.18	0.43
1:B:3034:LYS:HZ1	1:B:3038:MET:HG3	1.82	0.43
1:B:3043:PHE:HA	1:B:3071:LEU:HD23	2.00	0.43
1:D:110:ARG:NH2	1:D:117:TYR:OH	2.51	0.43
1:D:460:GLN:HB2	1:D:463:GLU:OE2	2.18	0.43
1:D:886:ARG:HD3	1:D:904:HIS:CD2	2.53	0.43
1:D:2960:LEU:HB3	1:D:3038:MET:HE3	2.00	0.43
1:D:3260:GLY:HA2	1:D:3325:ASN:ND2	2.33	0.43
1:D:3477:LYS:O	1:D:3478:MET:HB2	2.17	0.43
1:D:3499:ARG:HH22	1:D:3503:TYR:HB3	1.83	0.43
1:D:4943:LEU:O	1:D:4947:GLN:HG2	2.17	0.43
1:C:1653:LEU:HD11	1:C:1659:LEU:HB3	2.00	0.43
1:C:2207:VAL:HA	1:C:2210:VAL:HG22	1.99	0.43
1:C:2224:ARG:HB2	1:C:2224:ARG:HH11	1.83	0.43
1:C:2597:LYS:O	1:C:2597:LYS:HD3	2.18	0.43
1:C:3384:LYS:HB3	1:C:3384:LYS:HE2	1.66	0.43
1:C:3403:ARG:HA	1:C:3458:PHE:CE2	2.53	0.43
1:C:3499:ARG:HH22	1:C:3503:TYR:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:LEU:H	1:A:265:LEU:HD23	1.83	0.43
1:A:1466:LEU:HA	1:A:1469:VAL:HG23	2.00	0.43
1:A:2095:GLN:HA	1:A:2127:GLN:HE21	1.82	0.43
1:A:2960:LEU:HB3	1:A:3038:MET:HE3	2.00	0.43
1:A:3617:LYS:HA	1:A:3617:LYS:HD3	1.84	0.43
1:A:4802:GLY:HA2	1:A:4808:PHE:HB2	2.01	0.43
1:B:170:ILE:HD12	1:B:170:ILE:HA	1.80	0.43
1:B:921:ASN:N	1:B:921:ASN:OD1	2.51	0.43
1:B:1759:ARG:HA	1:B:1759:ARG:NH1	2.33	0.43
1:B:2707:ALA:HB1	1:B:3009:TYR:CD1	2.53	0.43
1:B:2788:HIS:HB3	1:B:2791:LEU:HG	2.00	0.43
1:B:2985:ARG:NH1	1:B:2987:GLU:OE2	2.52	0.43
1:B:3676:ASP:HA	1:B:3679:LYS:NZ	2.34	0.43
1:B:4904:PRO:HB3	1:B:4913:ARG:HG2	2.00	0.43
1:D:862:VAL:O	1:D:863:LEU:HD23	2.18	0.43
1:D:938:HIS:ND1	1:D:1054:GLU:OE2	2.45	0.43
1:D:1141:ARG:HB2	1:C:3479:ALA:HA	2.00	0.43
1:D:1730:MET:HG3	1:D:1773:PRO:HD2	2.00	0.43
1:D:2369[B]:ARG:HD3	1:D:2369[B]:ARG:HA	1.57	0.43
1:D:2477:PRO:HD3	1:D:2546:MET:HG2	2.00	0.43
1:D:3158:LEU:HG	1:D:3159:ASP:N	2.33	0.43
1:D:3534:MET:O	1:D:3538:THR:HG23	2.18	0.43
1:D:4003:LEU:HA	1:D:4009:GLN:HE21	1.82	0.43
1:D:4680:LYS:HB2	1:D:4680:LYS:HE2	1.73	0.43
1:C:708:GLY:HA3	1:C:722:TRP:HB3	1.99	0.43
1:C:1929:MET:O	1:C:1930:LYS:HG3	2.18	0.43
1:C:2240:CYS:SG	1:C:2250:MET:HG3	2.58	0.43
1:C:2431:ASP:O	1:C:2435:ARG:HG3	2.18	0.43
1:C:2489:LYS:HB2	1:C:2489:LYS:HE3	1.75	0.43
1:C:2788:HIS:HB3	1:C:2791:LEU:HG	2.00	0.43
1:C:2986:VAL:HG22	1:C:2989:SER:H	1.82	0.43
1:A:349:GLN:HB3	1:A:356:TRP:CE3	2.53	0.43
1:A:460:GLN:HB2	1:A:463:GLU:OE2	2.18	0.43
1:A:887:ILE:HG21	1:A:955:LEU:HD11	2.00	0.43
1:A:2597:LYS:O	1:A:2597:LYS:HD3	2.18	0.43
1:A:3499:ARG:HH22	1:A:3503:TYR:HB3	1.83	0.43
1:B:78:LEU:HD22	1:B:106:ALA:CB	2.48	0.43
1:B:626:LEU:HB3	1:B:1688:HIS:HE2	1.83	0.43
1:B:862:VAL:O	1:B:863:LEU:HD23	2.18	0.43
1:B:1000:ARG:HB3	1:B:1005:TRP:HB2	2.00	0.43
1:B:1466:LEU:HA	1:B:1469:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1973:GLN:HG2	1:B:1998:PHE:CE1	2.53	0.43
1:B:2042:CYS:HB2	1:B:2044:ILE:HG22	1.99	0.43
1:B:2677:LYS:C	1:B:2677:LYS:HD3	2.44	0.43
1:B:2751:LEU:HD13	1:B:2823:ILE:HG12	2.00	0.43
1:B:2763:HIS:CE1	1:B:2802:LYS:HD2	2.54	0.43
1:B:3158:LEU:HG	1:B:3159:ASP:N	2.33	0.43
1:B:4148:THR:O	1:B:4152:GLU:HG3	2.19	0.43
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.17	0.43
1:D:14:LEU:HD13	1:D:163:VAL:HG12	2.00	0.43
1:D:1000:ARG:HB3	1:D:1005:TRP:HB2	2.00	0.43
1:D:2240:CYS:SG	1:D:2250:MET:HG3	2.58	0.43
1:D:3230:LEU:HD23	1:D:3230:LEU:H	1.83	0.43
1:D:3793:MET:HE3	1:D:3793:MET:HB3	1.84	0.43
1:D:4074:SER:O	1:D:4078:GLN:HG2	2.17	0.43
1:C:15:ARG:HD3	1:C:100:THR:HA	2.00	0.43
1:C:50:GLU:OE2	1:C:61:ASP:N	2.44	0.43
1:C:426:ARG:HG3	1:C:431:PRO:HA	2.00	0.43
1:C:1425:GLU:H	1:C:1425:GLU:HG3	1.65	0.43
1:C:1466:LEU:HA	1:C:1469:VAL:HG23	2.00	0.43
1:C:2430:ILE:HG13	1:C:2502:MET:HE1	2.00	0.43
1:C:3534:MET:O	1:C:3538:THR:HG23	2.18	0.43
1:C:3676:ASP:HA	1:C:3679:LYS:NZ	2.34	0.43
1:C:4230:LYS:HG2	1:C:4231:MET:CE	2.46	0.43
1:C:4956:THR:O	1:C:4965:SER:N	2.50	0.43
1:A:15:ARG:HD3	1:A:100:THR:HA	2.01	0.43
1:A:708:GLY:HA3	1:A:722:TRP:HB3	1.99	0.43
1:A:1759:ARG:HA	1:A:1759:ARG:NH1	2.33	0.43
1:A:3676:ASP:HA	1:A:3679:LYS:NZ	2.33	0.43
1:A:4148:THR:O	1:A:4152:GLU:HG3	2.19	0.43
2:H:54:GLU:H	2:H:54:GLU:CD	2.26	0.43
1:B:1226:PHE:O	1:B:1827:ARG:NH2	2.42	0.43
1:B:1302:ARG:HH21	1:B:1523:ALA:HB3	1.83	0.43
1:B:1929:MET:O	1:B:1930:LYS:HG3	2.18	0.43
1:B:2960:LEU:HB3	1:B:3038:MET:HE3	2.00	0.43
1:B:3230:LEU:HD23	1:B:3230:LEU:H	1.83	0.43
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	2.00	0.43
1:B:4101:LYS:HD3	1:C:4730:ASP:HB2	1.98	0.43
1:B:4708:THR:HB	1:B:4772:ASP:OD2	2.19	0.43
1:B:4897:ILE:HD12	1:B:4897:ILE:HA	1.91	0.43
1:D:78:LEU:HD22	1:D:106:ALA:CB	2.48	0.43
1:D:266:ARG:O	1:D:270:SER:OG	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:921:ASN:OD1	1:D:921:ASN:N	2.51	0.43
1:D:1451:GLY:HA3	1:D:1494:MET:HA	2.00	0.43
1:D:2564:LYS:HB3	1:D:2564:LYS:HE3	1.85	0.43
1:D:2907:PRO:HB2	1:D:2910:THR:HG23	2.00	0.43
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	1.99	0.43
1:C:921:ASN:N	1:C:921:ASN:OD1	2.51	0.43
1:C:1730:MET:HG3	1:C:1773:PRO:HD2	2.00	0.43
1:C:2707:ALA:HB1	1:C:3009:TYR:CD1	2.53	0.43
1:A:534:ARG:HE	1:A:534:ARG:HB3	1.47	0.43
1:A:862:VAL:O	1:A:863:LEU:HD23	2.18	0.43
1:A:2042:CYS:HB2	1:A:2044:ILE:HG22	1.99	0.43
1:A:2431:ASP:O	1:A:2435:ARG:HG3	2.18	0.43
1:A:2763:HIS:CE1	1:A:2802:LYS:HD2	2.54	0.43
1:A:3408:LEU:HD23	1:A:3408:LEU:HA	1.92	0.43
1:A:3472:ALA:O	1:A:3476:SER:OG	2.25	0.43
1:A:4060:LYS:HA	1:A:4060:LYS:HD2	1.81	0.43
1:A:4989:MET:HE3	1:A:4989:MET:HB3	1.87	0.43
2:E:13:ARG:NH1	2:E:13:ARG:HB2	2.34	0.43
1:B:15:ARG:HD3	1:B:100:THR:HA	2.01	0.43
1:B:470:SER:O	1:B:474:ARG:HG3	2.18	0.43
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.18	0.43
1:B:3756:LYS:HG2	1:B:3760:LYS:HE2	1.99	0.43
1:D:1973:GLN:HG2	1:D:1998:PHE:CE1	2.53	0.43
1:D:2224:ARG:HB2	1:D:2224:ARG:HH11	1.83	0.43
1:D:2318:TYR:CZ	1:D:2395:PRO:HD3	2.53	0.43
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.18	0.43
1:D:3182:TYR:HA	1:D:3185:LYS:HG2	2.00	0.43
1:D:3358:PHE:CZ	1:D:3415:TYR:HD2	2.37	0.43
1:D:3475:LYS:HA	1:D:3475:LYS:HD3	1.74	0.43
1:C:181:HIS:HA	1:C:198:THR:HB	2.01	0.43
1:C:689:THR:HA	1:C:778:PHE:HE2	1.84	0.43
1:C:954:LYS:HD3	1:C:954:LYS:HA	1.74	0.43
1:C:2224:ARG:HG2	1:C:2225:PHE:CE2	2.54	0.43
1:C:3158:LEU:HG	1:C:3159:ASP:N	2.33	0.43
1:C:3182:TYR:HA	1:C:3185:LYS:HG2	2.00	0.43
1:C:3230:LEU:HD23	1:C:3230:LEU:H	1.83	0.43
1:C:3371:LYS:HE2	1:C:3371:LYS:HB2	1.78	0.43
1:C:3946:GLN:H	1:C:3946:GLN:CD	2.24	0.43
1:C:4148:THR:O	1:C:4152:GLU:HG3	2.19	0.43
1:A:80:GLU:HG3	1:D:3935:TRP:CE3	2.53	0.43
1:A:164:ARG:NH1	1:A:164:ARG:HG3	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1929:MET:O	1:A:1930:LYS:HG3	2.19	0.43
1:A:2240:CYS:SG	1:A:2250:MET:HG3	2.58	0.43
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.18	0.43
1:A:3335:MET:HE3	1:A:3407:ALA:HB2	2.00	0.43
1:A:4907:ASP:OD2	1:A:4908:GLU:N	2.52	0.43
1:B:349:GLN:HB3	1:B:356:TRP:CE3	2.53	0.43
1:B:421:PHE:CD2	1:B:421:PHE:C	2.97	0.43
1:B:796:ARG:HA	1:B:796:ARG:NH1	2.34	0.43
1:B:2597:LYS:O	1:B:2597:LYS:HD3	2.18	0.43
1:D:15:ARG:HD3	1:D:100:THR:HA	2.00	0.43
1:D:181:HIS:HA	1:D:198:THR:HB	2.01	0.43
1:D:265:LEU:H	1:D:265:LEU:HD23	1.83	0.43
1:D:708:GLY:HA3	1:D:722:TRP:HB3	1.99	0.43
1:D:2431:ASP:O	1:D:2435:ARG:HG3	2.18	0.43
1:D:4006:ASP:OD2	1:D:4007:SER:N	2.52	0.43
1:C:110:ARG:NH2	1:C:117:TYR:OH	2.51	0.43
1:C:470:SER:O	1:C:474:ARG:HG3	2.18	0.43
1:C:862:VAL:O	1:C:863:LEU:HD23	2.18	0.43
1:C:2095:GLN:HA	1:C:2127:GLN:HE21	1.82	0.43
1:C:2906:VAL:CG2	1:C:2911:LEU:HB3	2.49	0.43
1:C:3576:TYR:OH	1:C:3582:ARG:NH1	2.50	0.43
1:C:4836:GLN:O	1:C:4840:THR:HG22	2.19	0.43
1:C:4890:GLY:O	1:C:4925:ILE:HD11	2.19	0.43
1:A:470:SER:O	1:A:474:ARG:HG3	2.18	0.43
1:A:526:LEU:HD12	1:A:526:LEU:HA	1.86	0.43
1:A:1062:GLN:NE2	1:A:1064:GLU:OE1	2.40	0.43
1:A:1973:GLN:HG2	1:A:1998:PHE:CE1	2.53	0.43
1:A:2005:GLN:O	1:A:2009:LEU:HG	2.19	0.43
1:A:2751:LEU:HD13	1:A:2823:ILE:HG12	2.00	0.43
1:A:2810:LYS:HA	1:A:2810:LYS:HD3	1.76	0.43
1:A:4006:ASP:OD2	1:A:4007:SER:N	2.52	0.43
1:A:4895:GLY:O	1:D:4892:ARG:HD2	2.18	0.43
1:B:317:ARG:NE	1:B:349:GLN:OE1	2.51	0.43
1:B:952:LYS:HB3	1:B:968:ALA:HB1	2.00	0.43
1:B:954:LYS:HD3	1:B:954:LYS:HA	1.74	0.43
1:B:1231[B]:GLN:NE2	1:B:1828:ASP:O	2.48	0.43
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.19	0.43
1:B:1728:ARG:HA	1:B:1731:LEU:HD12	1.99	0.43
1:B:2005:GLN:O	1:B:2009:LEU:HG	2.19	0.43
1:B:2318:TYR:CZ	1:B:2395:PRO:HD3	2.54	0.43
1:B:2395:PRO:HB2	1:B:2397:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3359:ILE:HG23	1:B:3437:MET:HE1	1.99	0.43
1:B:3409:TYR:N	1:B:3410:PRO:HD2	2.34	0.43
1:B:3477:LYS:O	1:B:3478:MET:HB2	2.17	0.43
1:D:13:PHE:HB2	1:D:15:ARG:HH21	1.83	0.43
1:D:426:ARG:HG3	1:D:431:PRO:HA	2.00	0.43
1:D:1062:GLN:NE2	1:D:1064:GLU:OE1	2.40	0.43
1:D:1653:LEU:HD11	1:D:1659:LEU:HB3	2.00	0.43
1:D:3335:MET:HE3	1:D:3407:ALA:HB2	2.00	0.43
1:D:3537:LYS:HZ1	1:D:3607:GLU:HG2	1.83	0.43
1:D:3676:ASP:HA	1:D:3679:LYS:NZ	2.34	0.43
1:D:3791:GLY:O	1:D:3794:VAL:HG12	2.18	0.43
1:D:4148:THR:O	1:D:4152:GLU:HG3	2.19	0.43
1:D:4757:LYS:O	1:D:4757:LYS:HD3	2.19	0.43
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.54	0.43
1:C:280:LEU:HD21	1:C:316:PHE:HD1	1.83	0.43
1:C:421:PHE:C	1:C:421:PHE:CD2	2.97	0.43
1:C:460:GLN:HB2	1:C:463:GLU:OE2	2.18	0.43
1:C:1226:PHE:O	1:C:1827:ARG:NH2	2.42	0.43
1:C:1759:ARG:HA	1:C:1759:ARG:NH1	2.33	0.43
1:C:2477:PRO:HD3	1:C:2546:MET:HG2	2.00	0.43
1:C:3051:ARG:HA	1:C:3131:TYR:CE1	2.54	0.43
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	2.00	0.43
1:C:3527:PRO:HD3	1:C:3576:TYR:CD1	2.54	0.43
1:C:4757:LYS:O	1:C:4757:LYS:HD3	2.19	0.43
1:A:181:HIS:HA	1:A:198:THR:HB	2.01	0.43
1:A:426:ARG:HG3	1:A:431:PRO:HA	2.00	0.43
1:A:1302:ARG:HH21	1:A:1523:ALA:HB3	1.83	0.43
1:A:2000:SER:O	1:A:2005:GLN:NE2	2.51	0.43
1:A:2256:TYR:O	1:A:2259:GLU:HG3	2.18	0.43
1:A:2430:ILE:HG13	1:A:2502:MET:HE1	2.00	0.43
1:A:2892:GLN:HA	1:A:2895:GLU:HG2	2.00	0.43
1:A:3158:LEU:HG	1:A:3159:ASP:N	2.33	0.43
1:A:3182:TYR:O	1:A:3185:LYS:HG3	2.19	0.43
1:A:3255:GLY:O	1:A:3258:GLU:HG3	2.19	0.43
1:A:3582:ARG:H	1:A:3582:ARG:HG2	1.43	0.43
1:A:3696:ASP:OD2	1:A:3773:ARG:NH2	2.52	0.43
1:A:4133:GLN:OE1	1:A:4133:GLN:HA	2.19	0.43
2:G:13:ARG:NH1	2:G:13:ARG:HB2	2.34	0.43
1:B:113:HIS:CE1	1:B:402:ARG:HB3	2.54	0.43
1:B:1449:TRP:N	1:B:1553:PHE:O	2.50	0.43
1:B:1965:TYR:CE1	1:B:2027:ILE:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2244:ARG:HB2	1:B:2244:ARG:CZ	2.49	0.43
1:B:2906:VAL:CG2	1:B:2911:LEU:HB3	2.49	0.43
1:B:4003:LEU:HA	1:B:4009:GLN:HE21	1.82	0.43
1:B:4006:ASP:OD2	1:B:4007:SER:N	2.52	0.43
1:B:4802:GLY:HA2	1:B:4808:PHE:HB2	2.01	0.43
1:D:1066:GLN:HG3	1:D:1070:ASP:OD1	2.18	0.43
1:D:1147:ASP:HB3	1:D:1164:LEU:HD11	2.01	0.43
1:D:2224:ARG:HG2	1:D:2225:PHE:CE2	2.54	0.43
1:D:2597:LYS:O	1:D:2597:LYS:HD3	2.18	0.43
1:D:3051:ARG:HA	1:D:3131:TYR:CE1	2.54	0.43
1:D:3337:ARG:HA	1:D:3340:VAL:HG22	1.99	0.43
1:D:4186:ALA:O	1:D:4188:ARG:NH1	2.52	0.43
1:C:2256:TYR:O	1:C:2259:GLU:HG3	2.18	0.43
1:C:2318:TYR:CZ	1:C:2395:PRO:HD3	2.53	0.43
1:C:3262:ARG:HA	1:C:3262:ARG:HD3	1.66	0.43
1:C:4133:GLN:OE1	1:C:4133:GLN:HA	2.19	0.43
1:C:4708:THR:HB	1:C:4772:ASP:OD2	2.19	0.43
1:C:4911:LEU:HD23	1:C:4911:LEU:HA	1.77	0.43
1:A:28:VAL:O	1:A:31:GLU:HG3	2.19	0.43
1:A:273:HIS:HB3	1:A:337:PRO:HB3	2.01	0.43
1:A:1265:ASP:OD1	1:A:1265:ASP:N	2.38	0.43
1:A:2677:LYS:C	1:A:2677:LYS:HD3	2.44	0.43
1:A:3335:MET:HE3	1:A:3407:ALA:CB	2.49	0.43
1:A:4708:THR:HB	1:A:4772:ASP:OD2	2.19	0.43
1:A:4757:LYS:O	1:A:4757:LYS:HD3	2.19	0.43
1:B:14:LEU:HD13	1:B:163:VAL:HG12	2.00	0.43
1:B:1753:LYS:NZ	1:B:1759:ARG:H	2.16	0.43
1:B:2256:TYR:O	1:B:2259:GLU:HG3	2.18	0.43
1:B:2671:GLU:H	1:B:2671:GLU:HG2	1.61	0.43
1:B:3335:MET:HE3	1:B:3407:ALA:HB2	2.00	0.43
1:B:3374:ALA:O	1:B:3377:GLU:HG3	2.19	0.43
1:B:3499:ARG:HH22	1:B:3503:TYR:HB3	1.83	0.43
1:D:113:HIS:CE1	1:D:402:ARG:HB3	2.54	0.43
1:D:219:VAL:HG22	1:D:261:ARG:HB2	2.01	0.43
1:D:663:TYR:CD2	1:D:804:PRO:HB3	2.54	0.43
1:D:689:THR:HA	1:D:778:PHE:HE2	1.84	0.43
1:D:1753:LYS:NZ	1:D:1759:ARG:H	2.16	0.43
1:D:2321:ILE:HG22	1:D:2322:GLY:H	1.83	0.43
1:D:2927:LEU:HA	1:D:2927:LEU:HD13	1.92	0.43
1:D:2985:ARG:NH1	1:D:2987:GLU:OE2	2.52	0.43
1:D:3182:TYR:O	1:D:3185:LYS:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4708:THR:HB	1:D:4772:ASP:OD2	2.19	0.43
1:C:13:PHE:HB2	1:C:15:ARG:HH21	1.83	0.43
1:C:14:LEU:HD13	1:C:163:VAL:HG12	2.00	0.43
1:C:1071:ARG:HD2	1:C:1071:ARG:HA	1.74	0.43
1:C:1147:ASP:HB3	1:C:1164:LEU:HD11	2.01	0.43
1:C:1727:ARG:HD3	1:C:1727:ARG:HA	1.62	0.43
1:C:1965:TYR:CE1	1:C:2027:ILE:HG23	2.54	0.43
1:C:2395:PRO:HB2	1:C:2397:VAL:HG23	2.00	0.43
1:C:2653:LYS:HB2	1:C:2653:LYS:HE2	1.72	0.43
1:C:2686:LEU:HD12	1:C:2686:LEU:HA	1.90	0.43
1:C:3082:LYS:HD3	1:C:3082:LYS:HA	1.86	0.43
1:C:4003:LEU:HA	1:C:4009:GLN:HE21	1.82	0.43
1:C:4989:MET:HE3	1:C:4989:MET:HB3	1.87	0.43
1:A:13:PHE:HB2	1:A:15:ARG:HH21	1.83	0.43
1:A:426:ARG:NH1	1:A:508:GLY:HA2	2.34	0.43
1:A:688:LEU:HD12	1:A:776:LEU:O	2.18	0.43
1:A:796:ARG:HA	1:A:796:ARG:NH1	2.34	0.43
1:A:1753:LYS:NZ	1:A:1759:ARG:H	2.16	0.43
1:A:3762:ARG:CZ	1:A:4755:GLU:HB2	2.49	0.43
1:A:4003:LEU:HA	1:A:4009:GLN:HE21	1.82	0.43
1:A:4090:LYS:HG3	1:A:4121:GLU:HB3	2.00	0.43
1:A:4929:LEU:HD23	1:A:4929:LEU:HA	1.84	0.43
1:B:110:ARG:NH2	1:B:117:TYR:OH	2.51	0.43
1:B:886:ARG:HD3	1:B:904:HIS:CD2	2.53	0.43
1:B:2196:ASN:OD1	1:B:2199:ARG:NH2	2.48	0.43
1:B:2224:ARG:HG2	1:B:2225:PHE:CE2	2.54	0.43
1:B:3051:ARG:HA	1:B:3131:TYR:CE1	2.54	0.43
1:B:3537:LYS:HE2	1:B:3537:LYS:HB3	1.70	0.43
1:D:877:ASN:HA	1:D:880:GLU:CD	2.44	0.43
1:D:1991:THR:O	1:D:1995:THR:OG1	2.23	0.43
1:D:2170:MET:HG3	1:D:2225:PHE:CE2	2.54	0.43
1:D:2207:VAL:HA	1:D:2210:VAL:HG22	1.99	0.43
1:D:2430:ILE:HG13	1:D:2502:MET:HE1	2.00	0.43
1:D:2821:TRP:HB3	1:D:2937:VAL:CG2	2.49	0.43
1:D:4097:MET:HE2	1:D:4108:ILE:HG12	1.99	0.43
1:D:4133:GLN:OE1	1:D:4133:GLN:HA	2.19	0.43
1:D:4890:GLY:O	1:D:4925:ILE:HD11	2.19	0.43
1:C:214:VAL:HG13	1:C:341:TYR:CE2	2.53	0.43
1:C:663:TYR:CD2	1:C:804:PRO:HB3	2.54	0.43
1:C:820:ARG:CZ	1:C:820:ARG:HA	2.49	0.43
1:C:1973:GLN:HG2	1:C:1998:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2000:SER:O	1:C:2005:GLN:NE2	2.51	0.43
1:C:2751:LEU:HD13	1:C:2823:ILE:HG12	2.01	0.43
1:C:3137:LEU:HD12	1:C:3137:LEU:HA	1.90	0.43
1:C:3194:LEU:HD12	1:C:3194:LEU:HA	1.72	0.43
1:C:3409:TYR:N	1:C:3410:PRO:HD2	2.34	0.43
1:C:3791:GLY:O	1:C:3794:VAL:HG12	2.18	0.43
1:A:663:TYR:CD2	1:A:804:PRO:HB3	2.54	0.42
1:A:3571:TRP:HZ3	1:A:3575:LEU:HD12	1.84	0.42
1:A:3778:MET:HB3	1:A:3778:MET:HE2	1.73	0.42
2:H:13:ARG:NH1	2:H:13:ARG:HB2	2.34	0.42
2:G:50:LEU:H	2:G:50:LEU:HD12	1.84	0.42
1:B:28:VAL:O	1:B:31:GLU:HG3	2.19	0.42
1:B:336:PRO:HA	1:B:337:PRO:HD3	1.83	0.42
1:B:1204:LEU:HD12	1:B:1226:PHE:CD2	2.54	0.42
1:B:2000:SER:O	1:B:2005:GLN:NE2	2.51	0.42
1:B:2481:LYS:HA	1:B:2481:LYS:HD3	1.78	0.42
1:B:2885:THR:O	1:B:2889:LYS:HE3	2.19	0.42
1:B:3255:GLY:O	1:B:3258:GLU:HG3	2.19	0.42
1:B:3537:LYS:HZ1	1:B:3607:GLU:HG2	1.84	0.42
1:B:4090:LYS:HG3	1:B:4121:GLU:HB3	2.00	0.42
1:D:170:ILE:HG13	1:D:179:TYR:CD1	2.54	0.42
1:D:273:HIS:HB3	1:D:337:PRO:HB3	2.01	0.42
1:D:648:ILE:HG23	1:D:814:ALA:HB3	2.01	0.42
1:D:688:LEU:HD12	1:D:776:LEU:O	2.18	0.42
1:D:752:VAL:HB	1:D:753:PRO:C	2.44	0.42
1:D:818:ARG:NH2	1:D:1029:GLU:OE2	2.52	0.42
1:D:869:ARG:HE	1:D:1051:TYR:HH	1.67	0.42
1:D:1105:ALA:HB1	1:D:1109:LEU:HD13	2.01	0.42
1:D:1204:LEU:HD12	1:D:1226:PHE:CD2	2.54	0.42
1:D:2013:LYS:NZ	1:D:3665:GLU:HB2	2.34	0.42
1:D:2248:ARG:HE	1:D:2248:ARG:HB2	1.66	0.42
1:D:2458:ARG:HG2	1:D:2510:TYR:CE1	2.53	0.42
1:D:2751:LEU:HD13	1:D:2823:ILE:HG12	2.01	0.42
1:D:2757:LYS:HD2	1:D:2761:TYR:CE1	2.54	0.42
1:D:2763:HIS:CE1	1:D:2802:LYS:HD2	2.54	0.42
1:D:2906:VAL:CG2	1:D:2911:LEU:HB3	2.49	0.42
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.99	0.42
1:D:3292:PRO:HA	1:D:3293:PRO:HD3	1.93	0.42
1:D:4802:GLY:HA2	1:D:4808:PHE:HB2	2.01	0.42
1:C:64:ILE:H	1:C:64:ILE:HG12	1.66	0.42
1:C:341:TYR:CE1	1:C:392:ARG:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1105:ALA:HB1	1:C:1109:LEU:HD13	2.01	0.42
1:C:1204:LEU:HD12	1:C:1226:PHE:CD2	2.54	0.42
1:C:2985:ARG:NH1	1:C:2987:GLU:OE2	2.52	0.42
1:C:3335:MET:HE3	1:C:3407:ALA:CB	2.49	0.42
1:C:4655:PHE:CE2	1:C:4659:ILE:HD11	2.54	0.42
1:A:993:HIS:NE2	1:A:1022:VAL:O	2.50	0.42
1:A:2884:ASN:OD1	1:A:2885:THR:N	2.52	0.42
1:A:3051:ARG:HA	1:A:3131:TYR:CE1	2.54	0.42
1:A:3243:ILE:HD12	1:A:3243:ILE:O	2.19	0.42
1:A:3374:ALA:O	1:A:3377:GLU:HG3	2.19	0.42
1:A:3409:TYR:N	1:A:3410:PRO:HD2	2.34	0.42
1:A:3527:PRO:HD3	1:A:3576:TYR:CD1	2.54	0.42
1:A:3534:MET:O	1:A:3538:THR:HG23	2.18	0.42
1:A:4067:LYS:HA	1:A:4070:ASP:OD2	2.19	0.42
1:A:4933:GLN:HG3	1:B:4926:VAL:HG13	2.00	0.42
1:B:752:VAL:HB	1:B:753:PRO:C	2.44	0.42
1:B:877:ASN:HA	1:B:880:GLU:CD	2.44	0.42
1:B:1105:ALA:HB1	1:B:1109:LEU:HD13	2.01	0.42
1:B:2430:ILE:HG13	1:B:2502:MET:HE1	2.00	0.42
1:B:2458:ARG:HG2	1:B:2510:TYR:CE1	2.53	0.42
1:B:2886:TRP:NE1	1:B:2890:LYS:HD3	2.33	0.42
1:B:3182:TYR:O	1:B:3185:LYS:HG3	2.19	0.42
1:B:3210:LEU:HB2	1:B:3304:CYS:O	2.19	0.42
1:B:3762:ARG:CZ	1:B:4755:GLU:HB2	2.49	0.42
1:B:4890:GLY:O	1:B:4925:ILE:HD11	2.19	0.42
1:D:169:LEU:HD12	1:D:170:ILE:H	1.85	0.42
1:D:341:TYR:CE1	1:D:392:ARG:HB2	2.54	0.42
1:D:349:GLN:HB3	1:D:356:TRP:CE3	2.53	0.42
1:D:426:ARG:NH1	1:D:508:GLY:HA2	2.34	0.42
1:D:820:ARG:HA	1:D:820:ARG:CZ	2.49	0.42
1:D:1929:MET:O	1:D:1930:LYS:HG3	2.19	0.42
1:D:1965:TYR:CE1	1:D:2027:ILE:HG23	2.54	0.42
1:D:2000:SER:O	1:D:2005:GLN:NE2	2.51	0.42
1:D:2005:GLN:O	1:D:2009:LEU:HG	2.19	0.42
1:D:2010:LEU:HD23	1:D:2010:LEU:HA	1.83	0.42
1:D:2677:LYS:HD3	1:D:2677:LYS:C	2.44	0.42
1:D:3255:GLY:O	1:D:3258:GLU:HG3	2.19	0.42
1:D:3335:MET:HE3	1:D:3407:ALA:CB	2.49	0.42
1:D:3527:PRO:HD3	1:D:3576:TYR:CD1	2.54	0.42
1:D:3940:LYS:HE2	1:D:3940:LYS:HB2	1.86	0.42
1:D:4836:GLN:O	1:D:4840:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2677:LYS:C	1:C:2677:LYS:HD3	2.44	0.42
1:C:3182:TYR:O	1:C:3185:LYS:HG3	2.19	0.42
1:C:3209:GLN:H	1:C:3209:GLN:CD	2.26	0.42
1:C:3498:ARG:HB2	1:C:3499:ARG:H	1.58	0.42
1:A:45:ARG:HD3	1:A:45:ARG:HA	1.74	0.42
1:A:169:LEU:HD12	1:A:170:ILE:H	1.85	0.42
1:A:170:ILE:HG13	1:A:179:TYR:CD1	2.54	0.42
1:A:516:LYS:O	1:A:520:ASN:ND2	2.40	0.42
1:A:820:ARG:HA	1:A:820:ARG:CZ	2.49	0.42
1:A:985:VAL:HG11	1:A:1040:CYS:HB2	2.01	0.42
1:A:1000:ARG:HB3	1:A:1005:TRP:HB2	2.00	0.42
1:A:1025:ARG:HD3	1:A:1025:ARG:H	1.85	0.42
1:A:1071:ARG:HA	1:A:1071:ARG:HD2	1.74	0.42
1:A:1105:ALA:HB1	1:A:1109:LEU:HD13	2.01	0.42
1:A:2156:LEU:HD23	1:A:2156:LEU:HA	1.88	0.42
1:A:2500:ALA:HB2	1:A:2553:TYR:HD2	1.84	0.42
1:A:2821:TRP:HB3	1:A:2937:VAL:CG2	2.49	0.42
1:A:2906:VAL:CG2	1:A:2911:LEU:HB3	2.49	0.42
1:A:3358:PHE:CZ	1:A:3415:TYR:HD2	2.37	0.42
1:A:4230:LYS:HG2	1:A:4231:MET:CE	2.46	0.42
1:A:4582:VAL:HG11	1:B:4860:ARG:HD2	2.01	0.42
2:H:18:ARG:HG3	2:H:18:ARG:NH1	2.33	0.42
1:B:50:GLU:OE2	1:B:61:ASP:N	2.44	0.42
1:B:219:VAL:HG22	1:B:261:ARG:HB2	2.01	0.42
1:B:818:ARG:NH2	1:B:1029:GLU:OE2	2.52	0.42
1:B:1025:ARG:H	1:B:1025:ARG:HD3	1.84	0.42
1:B:2224:ARG:HB2	1:B:2224:ARG:HH11	1.83	0.42
1:B:2757:LYS:HD2	1:B:2761:TYR:CE1	2.54	0.42
1:B:2884:ASN:OD1	1:B:2885:THR:N	2.52	0.42
1:B:3527:PRO:HD3	1:B:3576:TYR:CD1	2.54	0.42
1:B:4836:GLN:O	1:B:4840:THR:HG22	2.19	0.42
1:D:796:ARG:HA	1:D:796:ARG:NH1	2.34	0.42
1:D:3307:VAL:HA	1:D:3311:HIS:ND1	2.34	0.42
1:C:137:LEU:HD23	1:C:137:LEU:HA	1.90	0.42
1:C:364:PRO:O	1:C:365:LYS:HB3	2.19	0.42
1:C:1112:ASP:OD1	1:C:1112:ASP:N	2.44	0.42
1:C:2013:LYS:NZ	1:C:3665:GLU:HB2	2.34	0.42
1:C:2458:ARG:HG2	1:C:2510:TYR:CE1	2.53	0.42
1:C:2810:LYS:HA	1:C:2810:LYS:HD3	1.76	0.42
1:C:4186:ALA:O	1:C:4188:ARG:NH1	2.52	0.42
1:A:722:TRP:CZ2	1:A:727:ALA:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:VAL:HB	1:A:753:PRO:C	2.44	0.42
1:A:846:LEU:HD23	1:A:846:LEU:HA	1.90	0.42
1:A:952:LYS:HB3	1:A:968:ALA:HB1	2.01	0.42
1:A:2170:MET:HG3	1:A:2225:PHE:CE2	2.54	0.42
1:A:2346:VAL:HG23	1:A:2349:ASN:HB2	2.01	0.42
1:A:2703:LEU:HD23	1:A:2703:LEU:HA	1.88	0.42
1:A:3103:ILE:HD13	1:A:3168:THR:HG23	2.02	0.42
1:A:3157:ILE:O	1:A:3202:PRO:HG3	2.20	0.42
1:A:3208:PRO:O	1:A:3236:VAL:HG11	2.20	0.42
1:A:4186:ALA:O	1:A:4188:ARG:NH1	2.52	0.42
2:H:48:PHE:HZ	2:H:63:VAL:HG21	1.84	0.42
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.18	0.42
1:B:3335:MET:HE3	1:B:3407:ALA:CB	2.49	0.42
1:B:4006:ASP:OD1	1:B:4008:SER:OG	2.35	0.42
1:B:4757:LYS:O	1:B:4757:LYS:HD3	2.19	0.42
1:D:28:VAL:O	1:D:31:GLU:HG3	2.19	0.42
1:D:175:SER:O	1:C:2452:ARG:HD3	2.19	0.42
1:D:421:PHE:CD2	1:D:421:PHE:C	2.97	0.42
1:D:470:SER:O	1:D:474:ARG:HG3	2.18	0.42
1:D:722:TRP:CZ2	1:D:727:ALA:HB2	2.54	0.42
1:D:971:ASP:HB3	1:D:974:HIS:HE1	1.84	0.42
1:D:1076:ARG:NH2	1:D:1655:GLU:OE1	2.33	0.42
1:D:1547:LYS:HB2	1:D:1547:LYS:HE2	1.80	0.42
1:D:1691:GLN:O	1:D:1695:LEU:HG	2.19	0.42
1:D:2244:ARG:HB2	1:D:2244:ARG:CZ	2.49	0.42
1:D:2256:TYR:O	1:D:2259:GLU:HG3	2.18	0.42
1:D:2500:ALA:HB2	1:D:2553:TYR:HD2	1.84	0.42
1:D:3617:LYS:HD3	1:D:3617:LYS:HA	1.84	0.42
1:D:3762:ARG:CZ	1:D:4755:GLU:HB2	2.49	0.42
1:D:4655:PHE:CE2	1:D:4659:ILE:HD11	2.54	0.42
1:D:4930:ALA:HB1	1:C:4937:ILE:HD11	2.01	0.42
1:C:170:ILE:HD12	1:C:170:ILE:HA	1.80	0.42
1:C:426:ARG:NH1	1:C:508:GLY:HA2	2.34	0.42
1:C:468:LEU:O	1:C:472:ARG:HG2	2.20	0.42
1:C:985:VAL:HG11	1:C:1040:CYS:HB2	2.01	0.42
1:C:1302:ARG:HH21	1:C:1523:ALA:HB3	1.83	0.42
1:C:2763:HIS:CE1	1:C:2802:LYS:HD2	2.54	0.42
1:C:2886:TRP:NE1	1:C:2890:LYS:HD3	2.33	0.42
1:C:2960:LEU:HB3	1:C:3038:MET:HE3	2.00	0.42
1:C:3255:GLY:O	1:C:3258:GLU:HG3	2.19	0.42
1:C:4090:LYS:HG3	1:C:4121:GLU:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:PHE:CE1	1:D:2358:ILE:HB	2.55	0.42
1:A:648:ILE:HG23	1:A:814:ALA:HB3	2.01	0.42
1:A:744:VAL:HG22	1:A:759:ILE:HD13	2.01	0.42
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.19	0.42
1:A:1773:PRO:CA	1:A:2153:MET:HE2	2.50	0.42
1:A:1965:TYR:CE1	1:A:2027:ILE:HG23	2.54	0.42
1:A:2224:ARG:HG2	1:A:2225:PHE:CE2	2.54	0.42
1:A:4836:GLN:O	1:A:4840:THR:HG22	2.19	0.42
1:B:273:HIS:HB3	1:B:337:PRO:HB3	2.01	0.42
1:B:534:ARG:HE	1:B:534:ARG:HB3	1.47	0.42
1:B:722:TRP:CZ2	1:B:727:ALA:HB2	2.54	0.42
1:B:860:GLN:HE22	1:B:862:VAL:CG2	2.33	0.42
1:B:1027:LEU:HD23	1:B:1032:LYS:HB3	2.01	0.42
1:B:1648:MET:HE2	1:B:1648:MET:HB3	1.75	0.42
1:B:2013:LYS:NZ	1:B:3665:GLU:HB2	2.34	0.42
1:B:2437:ALA:HB2	1:B:2509:VAL:HG12	2.01	0.42
1:B:3262:ARG:HD3	1:B:3262:ARG:HA	1.66	0.42
1:B:3696:ASP:OD2	1:B:3773:ARG:NH2	2.52	0.42
1:B:4907:ASP:OD2	1:B:4908:GLU:N	2.52	0.42
1:D:2346:VAL:HG23	1:D:2349:ASN:HB2	2.01	0.42
1:D:2527:LEU:HD12	1:D:2531:ARG:HH12	1.85	0.42
1:D:3405:LEU:HG	1:D:3409:TYR:CD1	2.55	0.42
1:D:3499:ARG:NH2	1:D:3503:TYR:HB3	2.35	0.42
1:D:4085:ARG:HE	1:D:4085:ARG:HB2	1.63	0.42
1:D:4090:LYS:HG3	1:D:4121:GLU:HB3	2.00	0.42
1:D:4907:ASP:OD2	1:D:4908:GLU:N	2.52	0.42
1:C:334:MET:HE3	1:C:334:MET:HB3	1.88	0.42
1:C:1224:GLU:OE1	1:C:1228:ILE:HG21	2.20	0.42
1:C:2005:GLN:O	1:C:2009:LEU:HG	2.19	0.42
1:C:2321:ILE:HG22	1:C:2322:GLY:H	1.83	0.42
1:C:2527:LEU:HD12	1:C:2531:ARG:HH12	1.85	0.42
1:C:2885:THR:O	1:C:2889:LYS:HE3	2.19	0.42
1:C:2959:PHE:O	1:C:2963:LEU:HG	2.20	0.42
1:C:3157:ILE:O	1:C:3202:PRO:HG3	2.20	0.42
1:C:3208:PRO:O	1:C:3236:VAL:HG11	2.20	0.42
1:C:3696:ASP:OD2	1:C:3773:ARG:NH2	2.52	0.42
1:C:4802:GLY:HA2	1:C:4808:PHE:HB2	2.01	0.42
1:A:73:LEU:HD23	1:A:73:LEU:HA	1.84	0.42
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.54	0.42
1:A:131:LEU:HD12	1:A:131:LEU:C	2.45	0.42
1:A:737:LEU:HD12	1:A:737:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:886:ARG:HD3	1:A:904:HIS:CD2	2.53	0.42
1:A:1027:LEU:HD23	1:A:1032:LYS:HB3	2.01	0.42
1:A:1634:LEU:HD23	1:A:1634:LEU:HA	1.84	0.42
1:A:2122:SER:O	1:A:2126:ARG:HG3	2.20	0.42
1:A:2244:ARG:HB2	1:A:2244:ARG:CZ	2.49	0.42
1:A:2757:LYS:HD2	1:A:2761:TYR:CE1	2.54	0.42
1:A:2977:LEU:HD13	1:A:3056:LEU:HD21	2.02	0.42
1:A:3082:LYS:HA	1:A:3082:LYS:HD3	1.86	0.42
1:A:3210:LEU:HB2	1:A:3304:CYS:O	2.19	0.42
1:A:3477:LYS:HG3	1:B:1141:ARG:HH12	1.83	0.42
1:A:3499:ARG:NH2	1:A:3503:TYR:HB3	2.35	0.42
1:A:4890:GLY:O	1:A:4925:ILE:HD11	2.19	0.42
1:A:4904:PRO:HB3	1:A:4913:ARG:HG2	2.00	0.42
1:B:341:TYR:CE1	1:B:392:ARG:HB2	2.54	0.42
1:B:737:LEU:HD12	1:B:737:LEU:HA	1.84	0.42
1:B:1211:LEU:H	1:B:1211:LEU:HD12	1.85	0.42
1:B:2346:VAL:HG23	1:B:2349:ASN:HB2	2.01	0.42
1:B:3307:VAL:HA	1:B:3311:HIS:ND1	2.34	0.42
1:B:4655:PHE:CE2	1:B:4659:ILE:HD11	2.54	0.42
1:B:4937:ILE:HD11	1:C:4930:ALA:HB1	2.00	0.42
1:D:364:PRO:O	1:D:365:LYS:HB3	2.19	0.42
1:D:2644:LEU:HD13	1:D:2678:LEU:HD21	2.02	0.42
1:D:2790:MET:HE3	1:D:2791:LEU:N	2.35	0.42
1:D:3103:ILE:HD13	1:D:3168:THR:HG23	2.02	0.42
1:D:3452:LYS:HD2	1:D:3452:LYS:C	2.45	0.42
1:D:3571:TRP:HZ3	1:D:3575:LEU:HD12	1.84	0.42
1:D:4851:TYR:HD1	1:D:4916:PHE:CE1	2.38	0.42
1:C:28:VAL:O	1:C:31:GLU:HG3	2.19	0.42
1:C:365:LYS:HB3	1:C:365:LYS:HE3	1.80	0.42
1:C:818:ARG:NH2	1:C:1029:GLU:OE2	2.52	0.42
1:C:2500:ALA:HB2	1:C:2553:TYR:HD2	1.84	0.42
1:C:3452:LYS:HD2	1:C:3452:LYS:C	2.45	0.42
1:C:3571:TRP:HZ3	1:C:3575:LEU:HD12	1.84	0.42
1:C:4067:LYS:HA	1:C:4070:ASP:OD2	2.19	0.42
1:C:4907:ASP:OD2	1:C:4908:GLU:N	2.52	0.42
1:A:818:ARG:NH2	1:A:1029:GLU:OE2	2.52	0.42
1:A:2013:LYS:NZ	1:A:3665:GLU:HB2	2.34	0.42
1:A:2523:ASP:HB3	1:A:2578:MET:HE3	2.02	0.42
1:A:2985:ARG:NH1	1:A:2987:GLU:OE2	2.52	0.42
1:A:3405:LEU:HG	1:A:3409:TYR:CD1	2.55	0.42
1:A:3452:LYS:C	1:A:3452:LYS:HD2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3540:TYR:CZ	1:A:3549:VAL:HG11	2.55	0.42
1:A:4096:ALA:O	1:A:4099:SER:OG	2.28	0.42
1:B:169:LEU:HD12	1:B:170:ILE:H	1.85	0.42
1:B:689:THR:HA	1:B:778:PHE:HE2	1.84	0.42
1:B:1730:MET:HG3	1:B:1773:PRO:HD2	2.00	0.42
1:B:2520:HIS:O	1:B:2524:VAL:HG22	2.20	0.42
1:B:3154:ASP:OD1	1:B:3283:ARG:NH2	2.53	0.42
1:B:3499:ARG:NH2	1:B:3503:TYR:HB3	2.35	0.42
1:B:3571:TRP:HZ3	1:B:3575:LEU:HD12	1.84	0.42
1:B:3842:LEU:HD23	1:B:3842:LEU:HA	1.89	0.42
1:B:4648:LEU:HD12	1:B:4803:HIS:CE1	2.55	0.42
1:B:4911:LEU:HA	1:B:4911:LEU:HD23	1.77	0.42
1:D:860:GLN:HE22	1:D:862:VAL:CG2	2.33	0.42
1:D:1476:MET:O	1:D:1484:HIS:N	2.52	0.42
1:D:1773:PRO:CA	1:D:2153:MET:HE2	2.50	0.42
1:D:1786:LEU:HD22	1:D:1787:PRO:HD2	2.01	0.42
1:D:2885:THR:O	1:D:2889:LYS:HE3	2.19	0.42
1:D:3023:LYS:HB3	1:D:3023:LYS:HE3	1.89	0.42
1:D:4064:MET:SD	1:D:4107:GLU:HG2	2.60	0.42
1:C:219:VAL:HG22	1:C:261:ARG:HB2	2.01	0.42
1:C:2170:MET:HG3	1:C:2225:PHE:CE2	2.54	0.42
1:C:2244:ARG:HB2	1:C:2244:ARG:CZ	2.49	0.42
1:C:2700:MET:HE3	1:C:2701:PRO:HD3	2.02	0.42
1:C:3256:LEU:HD13	1:C:3269:VAL:HG21	2.01	0.42
1:C:3358:PHE:CZ	1:C:3415:TYR:HD2	2.37	0.42
1:C:3762:ARG:CZ	1:C:4755:GLU:HB2	2.49	0.42
1:A:971:ASP:HB3	1:A:974:HIS:HE1	1.84	0.42
1:A:1224:GLU:OE1	1:A:1228:ILE:HG21	2.20	0.42
1:A:1613:LEU:HD13	1:A:1634:LEU:HB2	2.02	0.42
1:A:3263:TYR:N	1:A:3326:ASN:OD1	2.47	0.42
1:A:4897:ILE:O	1:A:4901:ILE:HG12	2.20	0.42
2:E:18:ARG:HA	2:E:18:ARG:HD3	1.83	0.42
2:G:89:GLY:C	2:G:90:ILE:HD13	2.45	0.42
1:B:131:LEU:C	1:B:131:LEU:HD12	2.45	0.42
1:B:426:ARG:NH1	1:B:508:GLY:HA2	2.34	0.42
1:B:754:SER:HA	1:B:768:PHE:O	2.20	0.42
1:B:860:GLN:HE22	1:B:862:VAL:HG23	1.85	0.42
1:B:1754:GLY:O	1:B:1758:ARG:HG3	2.20	0.42
1:B:2244:ARG:NH2	1:B:3860:ASN:HA	2.24	0.42
1:B:3103:ILE:HD13	1:B:3168:THR:HG23	2.02	0.42
1:B:3358:PHE:CZ	1:B:3415:TYR:HD2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3452:LYS:HD2	1:B:3452:LYS:C	2.45	0.42
1:B:3971:GLY:N	1:B:3972:PRO:HA	2.35	0.42
1:D:81:MET:HE2	1:D:81:MET:HB2	1.87	0.42
1:D:468:LEU:O	1:D:472:ARG:HG2	2.20	0.42
1:D:998:ARG:HG2	1:D:998:ARG:HH11	1.85	0.42
1:D:1027:LEU:HD23	1:D:1032:LYS:HB3	2.01	0.42
1:D:2437:ALA:HB2	1:D:2509:VAL:HG12	2.01	0.42
1:D:2702:CYS:O	1:D:2706:ILE:HG13	2.20	0.42
1:D:2742:THR:HB	1:D:2814:LYS:HB3	2.02	0.42
1:D:2884:ASN:OD1	1:D:2885:THR:N	2.53	0.42
1:D:2977:LEU:HD13	1:D:3056:LEU:HD21	2.02	0.42
1:D:3256:LEU:HD13	1:D:3269:VAL:HG21	2.01	0.42
1:D:3498:ARG:HB2	1:D:3499:ARG:H	1.58	0.42
1:C:860:GLN:HE22	1:C:862:VAL:CG2	2.33	0.42
1:C:877:ASN:HA	1:C:880:GLU:CD	2.44	0.42
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.19	0.42
1:C:2437:ALA:HB2	1:C:2509:VAL:HG12	2.01	0.42
1:C:2523:ASP:HB3	1:C:2578:MET:HE3	2.02	0.42
1:C:2579:VAL:O	1:C:2582:MET:HE2	2.20	0.42
1:C:2702:CYS:O	1:C:2706:ILE:HG13	2.20	0.42
1:C:2821:TRP:HB3	1:C:2937:VAL:CG2	2.49	0.42
1:C:3103:ILE:HD13	1:C:3168:THR:HG23	2.02	0.42
1:C:3243:ILE:O	1:C:3243:ILE:HD12	2.19	0.42
1:C:3767:GLN:O	1:C:3771:HIS:ND1	2.53	0.42
1:C:4851:TYR:HD1	1:C:4916:PHE:CE1	2.38	0.42
1:C:4897:ILE:O	1:C:4901:ILE:HG12	2.20	0.42
1:A:293:LEU:HD13	1:A:378:LEU:HD12	2.02	0.42
1:A:421:PHE:C	1:A:421:PHE:CD2	2.97	0.42
1:A:689:THR:HA	1:A:778:PHE:HE2	1.84	0.42
1:A:1547:LYS:HB2	1:A:1547:LYS:HE2	1.80	0.42
1:A:1730:MET:HG3	1:A:1773:PRO:HD2	2.00	0.42
1:A:1754:GLY:O	1:A:1758:ARG:HG3	2.20	0.42
1:A:2362:GLU:H	1:A:2362:GLU:CD	2.25	0.42
1:A:2527:LEU:HD12	1:A:2531:ARG:HH12	1.85	0.42
1:A:2885:THR:O	1:A:2889:LYS:HE3	2.19	0.42
1:A:3767:GLN:O	1:A:3771:HIS:ND1	2.53	0.42
1:A:3842:LEU:HD23	1:A:3842:LEU:HA	1.89	0.42
1:A:3971:GLY:N	1:A:3972:PRO:HA	2.35	0.42
1:A:4648:LEU:HD12	1:A:4803:HIS:CE1	2.55	0.42
1:A:4655:PHE:CE2	1:A:4659:ILE:HD11	2.54	0.42
1:B:13:PHE:HB2	1:B:15:ARG:HH21	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:744:VAL:HG22	1:B:759:ILE:HD13	2.01	0.42
1:B:1147:ASP:HB3	1:B:1164:LEU:HD11	2.01	0.42
1:B:1224:GLU:OE1	1:B:1228:ILE:HG21	2.20	0.42
1:B:1773:PRO:CA	1:B:2153:MET:HE2	2.50	0.42
1:B:1786:LEU:HD22	1:B:1787:PRO:HD2	2.01	0.42
1:B:2523:ASP:HB3	1:B:2578:MET:HE3	2.02	0.42
1:B:2579:VAL:O	1:B:2582:MET:HE2	2.20	0.42
1:B:2757:LYS:HD2	1:B:2761:TYR:CD1	2.55	0.42
1:B:2977:LEU:HD13	1:B:3056:LEU:HD21	2.02	0.42
1:B:3767:GLN:O	1:B:3771:HIS:ND1	2.53	0.42
1:D:214:VAL:HG13	1:D:341:TYR:CE2	2.53	0.42
1:D:243:ARG:NH2	1:D:302:VAL:HA	2.35	0.42
1:D:257:ARG:O	1:D:284:HIS:NE2	2.28	0.42
1:D:1025:ARG:H	1:D:1025:ARG:HD3	1.85	0.42
1:D:2892:GLN:HA	1:D:2895:GLU:HG2	2.00	0.42
1:D:3696:ASP:OD2	1:D:3773:ARG:NH2	2.52	0.42
1:D:4648:LEU:HD12	1:D:4803:HIS:CE1	2.55	0.42
1:C:866:HIS:HB2	1:C:1051:TYR:OH	2.20	0.42
1:C:869:ARG:HD2	1:C:870:ILE:HG12	2.02	0.42
1:C:1027:LEU:HD23	1:C:1032:LYS:HB3	2.01	0.42
1:C:2644:LEU:HD13	1:C:2678:LEU:HD21	2.02	0.42
1:C:2790:MET:HE3	1:C:2791:LEU:N	2.35	0.42
1:C:2884:ASN:OD1	1:C:2885:THR:N	2.52	0.42
1:C:2977:LEU:HD13	1:C:3056:LEU:HD21	2.02	0.42
1:C:3210:LEU:HB2	1:C:3304:CYS:O	2.19	0.42
1:A:341:TYR:CE1	1:A:392:ARG:HB2	2.54	0.42
1:A:860:GLN:HE22	1:A:862:VAL:HG23	1.85	0.42
1:A:2520:HIS:O	1:A:2524:VAL:HG22	2.20	0.42
1:A:2644:LEU:HD13	1:A:2678:LEU:HD21	2.02	0.42
1:A:3256:LEU:HD13	1:A:3269:VAL:HG21	2.01	0.42
1:A:3384:LYS:HB3	1:A:3384:LYS:HE2	1.67	0.42
1:A:3846:ALA:HB1	1:A:3873:LYS:HB2	2.02	0.42
1:A:4064:MET:SD	1:A:4107:GLU:HG2	2.60	0.42
1:B:73:LEU:HD23	1:B:73:LEU:HA	1.84	0.42
1:B:181:HIS:HA	1:B:198:THR:HB	2.01	0.42
1:B:492:ASP:O	1:B:496:VAL:HG13	2.20	0.42
1:B:1288:PHE:CE2	1:B:1460:HIS:HA	2.55	0.42
1:B:2527:LEU:HD12	1:B:2531:ARG:HH12	1.85	0.42
1:B:2644:LEU:HD13	1:B:2678:LEU:HD21	2.02	0.42
1:B:2821:TRP:HB3	1:B:2937:VAL:CG2	2.49	0.42
1:B:2881:ASN:O	1:B:2885:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3137:LEU:HD12	1:B:3137:LEU:HA	1.90	0.42
1:B:3208:PRO:O	1:B:3236:VAL:HG11	2.20	0.42
1:D:866:HIS:HB2	1:D:1051:TYR:OH	2.20	0.42
1:D:985:VAL:HG11	1:D:1040:CYS:HB2	2.01	0.42
1:D:3157:ILE:O	1:D:3202:PRO:HG3	2.20	0.42
1:D:3208:PRO:O	1:D:3236:VAL:HG11	2.20	0.42
1:D:3374:ALA:O	1:D:3377:GLU:HG3	2.19	0.42
1:D:3462:ASN:HB3	1:D:3464:ILE:HG23	2.02	0.42
1:D:3767:GLN:O	1:D:3771:HIS:ND1	2.53	0.42
1:D:4067:LYS:HA	1:D:4070:ASP:OD2	2.20	0.42
1:D:4646:LEU:HD23	1:D:4646:LEU:HA	1.86	0.42
1:D:4866:SER:OG	1:D:4871:GLU:O	2.35	0.42
1:C:632:LEU:O	1:C:634:GLN:NE2	2.46	0.42
1:C:648:ILE:HG23	1:C:814:ALA:HB3	2.01	0.42
1:C:752:VAL:HB	1:C:753:PRO:C	2.44	0.42
1:C:796:ARG:HA	1:C:796:ARG:NH1	2.34	0.42
1:C:1006:SER:C	1:C:1021:LEU:HD12	2.45	0.42
1:C:2318:TYR:CE2	1:C:2394:GLY:HA2	2.55	0.42
1:C:2881:ASN:O	1:C:2885:THR:HG23	2.20	0.42
1:C:3576:TYR:O	1:C:3582:ARG:HG3	2.20	0.42
1:C:3782:MET:HA	1:C:3782:MET:HE3	2.02	0.42
1:C:3940:LYS:HB2	1:C:3940:LYS:HE2	1.86	0.42
1:C:3971:GLY:N	1:C:3972:PRO:HA	2.35	0.42
1:C:4006:ASP:OD2	1:C:4007:SER:N	2.52	0.42
1:A:877:ASN:HA	1:A:880:GLU:CD	2.44	0.41
1:A:904:HIS:CE1	1:A:906:CYS:HB3	2.55	0.41
1:A:1147:ASP:HB3	1:A:1164:LEU:HD11	2.01	0.41
1:A:1573:MET:CE	1:A:1574:PRO:HD2	2.48	0.41
1:A:1982:ARG:H	1:A:1982:ARG:HG2	1.73	0.41
1:A:2285:GLU:CD	1:A:3856:LEU:HD13	2.45	0.41
1:A:2700:MET:HE3	1:A:2701:PRO:HD3	2.02	0.41
1:A:2881:ASN:O	1:A:2885:THR:HG23	2.20	0.41
1:A:3462:ASN:HB3	1:A:3464:ILE:HG23	2.02	0.41
1:B:364:PRO:O	1:B:365:LYS:HB3	2.19	0.41
1:B:820:ARG:CZ	1:B:820:ARG:HA	2.49	0.41
1:B:904:HIS:CE1	1:B:906:CYS:HB3	2.55	0.41
1:B:998:ARG:HG2	1:B:998:ARG:HH11	1.85	0.41
1:B:2122:SER:O	1:B:2126:ARG:HG3	2.20	0.41
1:B:2890:LYS:HD2	1:B:2890:LYS:N	2.35	0.41
1:B:4067:LYS:HA	1:B:4070:ASP:OD2	2.19	0.41
1:B:4186:ALA:O	1:B:4188:ARG:NH1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:ARG:HB3	1:C:3935:TRP:HB3	2.01	0.41
1:D:640:TYR:CE1	1:D:1636:MET:HB3	2.55	0.41
1:D:683:ARG:NH1	1:D:709:ASP:OD1	2.45	0.41
1:D:1211:LEU:H	1:D:1211:LEU:HD12	1.84	0.41
1:D:1613:LEU:HD13	1:D:1634:LEU:HB2	2.02	0.41
1:D:2122:SER:O	1:D:2126:ARG:HG3	2.20	0.41
1:D:2265:LEU:HD12	1:D:2265:LEU:HA	1.75	0.41
1:D:2523:ASP:HB3	1:D:2578:MET:HE3	2.02	0.41
1:D:2579:VAL:O	1:D:2582:MET:HE2	2.20	0.41
1:D:2703:LEU:HD23	1:D:2703:LEU:HA	1.88	0.41
1:D:3070:ILE:O	1:D:3074:SER:OG	2.28	0.41
1:D:3194:LEU:HD12	1:D:3194:LEU:HA	1.72	0.41
1:D:3210:LEU:HB2	1:D:3304:CYS:O	2.19	0.41
1:D:3263:TYR:N	1:D:3326:ASN:OD1	2.46	0.41
1:D:3846:ALA:HB1	1:D:3873:LYS:HB2	2.02	0.41
1:C:169:LEU:HD12	1:C:170:ILE:H	1.85	0.41
1:C:170:ILE:HG13	1:C:179:TYR:CD1	2.54	0.41
1:C:492:ASP:O	1:C:496:VAL:HG13	2.20	0.41
1:C:998:ARG:HG2	1:C:998:ARG:HH11	1.85	0.41
1:C:1025:ARG:HD3	1:C:1025:ARG:H	1.85	0.41
1:C:3307:VAL:HA	1:C:3311:HIS:ND1	2.34	0.41
1:C:3335:MET:HE3	1:C:3407:ALA:HB2	2.00	0.41
1:C:3374:ALA:O	1:C:3377:GLU:HG3	2.19	0.41
1:C:3405:LEU:HG	1:C:3409:TYR:CD1	2.55	0.41
1:C:3462:ASN:HB3	1:C:3464:ILE:HG23	2.02	0.41
1:A:869:ARG:HD2	1:A:870:ILE:HG12	2.02	0.41
1:A:1204:LEU:HD12	1:A:1226:PHE:CD2	2.54	0.41
1:A:2010:LEU:HD23	1:A:2010:LEU:HA	1.83	0.41
1:A:2208:MET:HE2	1:A:2253:HIS:HB3	2.03	0.41
1:A:2238:TYR:HA	1:A:2241:ARG:NE	2.36	0.41
1:A:2959:PHE:O	1:A:2963:LEU:HG	2.20	0.41
1:A:3576:TYR:O	1:A:3582:ARG:HG3	2.20	0.41
2:E:53:GLN:OE1	2:E:53:GLN:N	2.53	0.41
1:B:293:LEU:HD13	1:B:378:LEU:HD12	2.02	0.41
1:B:553:ARG:O	1:B:557:SER:OG	2.36	0.41
1:B:1076:ARG:NH2	1:B:1655:GLU:OE1	2.33	0.41
1:B:2170:MET:HG3	1:B:2225:PHE:CE2	2.54	0.41
1:B:2285:GLU:H	1:B:2285:GLU:CD	2.18	0.41
1:B:2500:ALA:HB2	1:B:2553:TYR:HD2	1.84	0.41
1:B:2959:PHE:O	1:B:2963:LEU:HG	2.20	0.41
1:B:3157:ILE:O	1:B:3202:PRO:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3243:ILE:HD12	1:B:3243:ILE:O	2.19	0.41
1:B:3462:ASN:HB3	1:B:3464:ILE:HG23	2.02	0.41
1:B:4133:GLN:OE1	1:B:4133:GLN:HA	2.19	0.41
1:B:4897:ILE:O	1:B:4901:ILE:HG12	2.20	0.41
1:D:2208:MET:HE2	1:D:2253:HIS:HB3	2.03	0.41
1:D:2520:HIS:O	1:D:2524:VAL:HG22	2.20	0.41
1:D:3368:ARG:HA	1:D:3371:LYS:HE2	2.03	0.41
1:D:3842:LEU:HD23	1:D:3842:LEU:HA	1.89	0.41
1:D:4230:LYS:HG2	1:D:4231:MET:CE	2.45	0.41
1:D:4904:PRO:HB3	1:D:4913:ARG:HG2	2.00	0.41
1:C:81:MET:HE2	1:C:81:MET:HB2	1.86	0.41
1:C:952:LYS:HB3	1:C:968:ALA:HB1	2.01	0.41
1:C:971:ASP:HB3	1:C:974:HIS:HE1	1.84	0.41
1:C:1288:PHE:CE2	1:C:1460:HIS:HA	2.55	0.41
1:C:1931:LEU:H	1:C:1931:LEU:HG	1.65	0.41
1:C:2520:HIS:O	1:C:2524:VAL:HG22	2.20	0.41
1:C:2757:LYS:HD2	1:C:2761:TYR:CE1	2.54	0.41
1:C:3249:LEU:HD12	1:C:3249:LEU:HA	1.87	0.41
1:C:3540:TYR:CZ	1:C:3549:VAL:HG11	2.55	0.41
1:C:3846:ALA:HB1	1:C:3873:LYS:HB2	2.02	0.41
1:A:364:PRO:O	1:A:365:LYS:HB3	2.19	0.41
1:A:860:GLN:HE22	1:A:862:VAL:CG2	2.33	0.41
1:A:1288:PHE:CE2	1:A:1460:HIS:HA	2.55	0.41
1:A:1786:LEU:HD22	1:A:1787:PRO:HD2	2.01	0.41
1:A:2437:ALA:HB2	1:A:2509:VAL:HG12	2.01	0.41
1:A:3307:VAL:HA	1:A:3311:HIS:ND1	2.34	0.41
1:B:1006:SER:C	1:B:1021:LEU:HD12	2.45	0.41
1:B:1425:GLU:H	1:B:1425:GLU:HG3	1.65	0.41
1:B:2285:GLU:CD	1:B:3856:LEU:HD13	2.45	0.41
1:B:2452:ARG:HD3	1:C:175:SER:O	2.19	0.41
1:B:2700:MET:HE3	1:B:2701:PRO:HD3	2.02	0.41
1:B:3145:GLN:NE2	1:B:3196:ARG:HH21	2.18	0.41
1:B:3535:LEU:HD12	1:B:3536:ALA:N	2.36	0.41
1:B:3793:MET:HE3	1:B:3793:MET:HB3	1.84	0.41
1:D:102:LEU:HB3	1:D:105:HIS:HD2	1.85	0.41
1:D:744:VAL:HG22	1:D:759:ILE:HD13	2.01	0.41
1:D:869:ARG:HD2	1:D:870:ILE:HG12	2.02	0.41
1:D:1071:ARG:HA	1:D:1071:ARG:HD2	1.74	0.41
1:D:1265:ASP:OD1	1:D:1265:ASP:N	2.38	0.41
1:D:1600:LEU:HD12	1:D:1600:LEU:HA	1.92	0.41
1:D:2495:VAL:O	1:D:2498:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2805:TYR:O	1:D:2805:TYR:HD1	2.04	0.41
1:D:2890:LYS:N	1:D:2890:LYS:HD2	2.35	0.41
1:D:3145:GLN:NE2	1:D:3196:ARG:HH21	2.18	0.41
1:D:3409:TYR:N	1:D:3410:PRO:HD2	2.34	0.41
1:D:3782:MET:HA	1:D:3782:MET:HE3	2.02	0.41
1:D:4698:LYS:HA	1:D:4698:LYS:HD3	1.88	0.41
1:D:4897:ILE:O	1:D:4901:ILE:HG12	2.20	0.41
1:D:4995:LEU:HD23	1:D:4995:LEU:HA	1.89	0.41
1:C:414:PHE:CE2	1:C:418:LEU:HD11	2.55	0.41
1:C:993:HIS:NE2	1:C:1022:VAL:O	2.50	0.41
1:C:1786:LEU:HD22	1:C:1787:PRO:HD2	2.01	0.41
1:C:3154:ASP:OD1	1:C:3283:ARG:NH2	2.53	0.41
1:C:3263:TYR:N	1:C:3326:ASN:OD1	2.47	0.41
1:C:4980:LEU:HD12	1:C:4980:LEU:HA	1.86	0.41
1:A:69:LEU:HD22	1:A:101:LEU:HD11	2.01	0.41
1:A:418:LEU:HA	1:A:421:PHE:CE1	2.56	0.41
1:A:468:LEU:O	1:A:472:ARG:HG2	2.20	0.41
1:A:640:TYR:CE1	1:A:1636:MET:HB3	2.55	0.41
1:A:1476:MET:O	1:A:1484:HIS:N	2.52	0.41
1:A:2757:LYS:HD2	1:A:2761:TYR:CD1	2.55	0.41
1:A:2765:LYS:HD3	1:A:2765:LYS:HA	1.92	0.41
1:A:3984:ARG:HH22	1:B:102:LEU:CD1	2.32	0.41
1:B:334:MET:HE3	1:B:334:MET:HB3	1.88	0.41
1:B:468:LEU:O	1:B:472:ARG:HG2	2.20	0.41
1:B:2719:TYR:HB2	1:B:2953:LYS:HE2	2.03	0.41
1:B:3371:LYS:HE2	1:B:3371:LYS:HB2	1.78	0.41
1:B:3405:LEU:HG	1:B:3409:TYR:CD1	2.55	0.41
1:B:3540:TYR:CZ	1:B:3549:VAL:HG11	2.55	0.41
1:B:3974:THR:O	1:B:3978:GLN:HG2	2.21	0.41
1:B:4851:TYR:HD1	1:B:4916:PHE:CE1	2.38	0.41
1:B:4980:LEU:HD12	1:B:4980:LEU:HA	1.86	0.41
1:D:293:LEU:HD13	1:D:378:LEU:HD12	2.02	0.41
1:D:418:LEU:HA	1:D:421:PHE:CE1	2.56	0.41
1:D:952:LYS:HB3	1:D:968:ALA:HB1	2.01	0.41
1:D:1006:SER:C	1:D:1021:LEU:HD12	2.45	0.41
1:D:1753:LYS:HE2	1:D:1758:ARG:HA	2.02	0.41
1:D:2238:TYR:HA	1:D:2241:ARG:NE	2.36	0.41
1:D:2757:LYS:HD2	1:D:2761:TYR:CD1	2.55	0.41
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.20	0.41
1:D:3243:ILE:HD12	1:D:3243:ILE:O	2.19	0.41
1:D:3296:LEU:HB3	1:D:3297:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3424:LEU:HD23	1:D:3424:LEU:HA	1.84	0.41
1:D:3540:TYR:CZ	1:D:3549:VAL:HG11	2.55	0.41
1:D:3576:TYR:O	1:D:3582:ARG:HG3	2.20	0.41
1:D:3758:MET:HE3	1:D:4719:PHE:HE1	1.86	0.41
1:C:860:GLN:HE22	1:C:862:VAL:HG23	1.85	0.41
1:C:904:HIS:CE1	1:C:906:CYS:HB3	2.55	0.41
1:C:1211:LEU:H	1:C:1211:LEU:HD12	1.85	0.41
1:C:1753:LYS:NZ	1:C:1759:ARG:H	2.16	0.41
1:C:1754:GLY:O	1:C:1758:ARG:HG3	2.20	0.41
1:C:2248:ARG:HE	1:C:2248:ARG:HB2	1.66	0.41
1:C:2757:LYS:HD2	1:C:2761:TYR:CD1	2.55	0.41
1:C:2805:TYR:O	1:C:2805:TYR:HD1	2.04	0.41
1:C:3587:ASP:HB2	1:C:3592:ILE:HD11	2.03	0.41
1:C:3758:MET:HE3	1:C:4719:PHE:HE1	1.86	0.41
1:C:4097:MET:HE2	1:C:4108:ILE:HG23	2.02	0.41
1:C:4648:LEU:HD12	1:C:4803:HIS:CE1	2.55	0.41
1:C:4722:ARG:HE	1:C:4748:LEU:HB2	1.86	0.41
1:A:219:VAL:HG22	1:A:261:ARG:HB2	2.01	0.41
1:A:1433:TYR:CD1	1:A:1578:ALA:HB2	2.56	0.41
1:A:3145:GLN:NE2	1:A:3196:ARG:HH21	2.18	0.41
1:A:3180:ASN:HB2	1:A:3183:VAL:HG23	2.03	0.41
1:A:3209:GLN:H	1:A:3209:GLN:CD	2.26	0.41
1:A:3274:LEU:HD23	1:A:3274:LEU:HA	1.94	0.41
1:A:3940:LYS:HB2	1:A:3940:LYS:HE2	1.86	0.41
1:A:4071:ILE:HA	1:A:4071:ILE:HD13	1.79	0.41
1:A:4722:ARG:HE	1:A:4748:LEU:HB2	1.86	0.41
1:B:278:GLN:HB2	1:B:328:LYS:HE2	2.03	0.41
1:B:648:ILE:HG23	1:B:814:ALA:HB3	2.01	0.41
1:B:663:TYR:CD2	1:B:804:PRO:HB3	2.54	0.41
1:B:866:HIS:HB2	1:B:1051:TYR:OH	2.20	0.41
1:B:971:ASP:HB3	1:B:974:HIS:HE1	1.84	0.41
1:B:1126:GLY:O	1:B:1142:PRO:HA	2.20	0.41
1:B:1613:LEU:HD13	1:B:1634:LEU:HB2	2.02	0.41
1:B:2318:TYR:CE2	1:B:2394:GLY:HA2	2.55	0.41
1:B:3256:LEU:HD13	1:B:3269:VAL:HG21	2.01	0.41
1:B:3263:TYR:N	1:B:3326:ASN:OD1	2.47	0.41
1:D:81:MET:SD	1:D:82:LEU:HD23	2.61	0.41
1:D:278:GLN:HB2	1:D:328:LYS:HE2	2.03	0.41
1:D:516:LYS:O	1:D:520:ASN:ND2	2.40	0.41
1:D:860:GLN:HE22	1:D:862:VAL:HG23	1.85	0.41
1:D:1224:GLU:OE1	1:D:1228:ILE:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1671:ARG:HH12	1:D:1710:GLY:HA2	1.86	0.41
1:D:1754:GLY:O	1:D:1758:ARG:HG3	2.20	0.41
1:D:2347:GLU:OE2	1:D:3852:LYS:NZ	2.53	0.41
1:D:2742:THR:HB	1:D:2814:LYS:HD2	2.03	0.41
1:D:2810:LYS:HA	1:D:2810:LYS:HD3	1.76	0.41
1:D:2959:PHE:O	1:D:2963:LEU:HG	2.20	0.41
1:D:3154:ASP:OD1	1:D:3283:ARG:NH2	2.53	0.41
1:C:273:HIS:HB3	1:C:337:PRO:HB3	2.01	0.41
1:C:1126:GLY:O	1:C:1142:PRO:HA	2.21	0.41
1:C:1613:LEU:HD13	1:C:1634:LEU:HB2	2.02	0.41
1:C:1773:PRO:CA	1:C:2153:MET:HE2	2.50	0.41
1:C:1990:GLU:HA	1:C:1993:ARG:NH2	2.29	0.41
1:C:2719:TYR:HB2	1:C:2953:LYS:HE2	2.03	0.41
1:C:2764:GLU:HB3	1:C:2857:PRO:HD3	2.03	0.41
1:C:3023:LYS:HE3	1:C:3023:LYS:HB3	1.89	0.41
1:C:3145:GLN:NE2	1:C:3196:ARG:HH21	2.18	0.41
1:C:4064:MET:SD	1:C:4107:GLU:HG2	2.60	0.41
1:C:4725:LEU:HD11	1:C:4734:ARG:HE	1.85	0.41
1:A:754:SER:HA	1:A:768:PHE:O	2.20	0.41
1:A:866:HIS:HB2	1:A:1051:TYR:OH	2.20	0.41
1:A:998:ARG:HG2	1:A:998:ARG:HH11	1.85	0.41
1:A:2481:LYS:HA	1:A:2481:LYS:HD3	1.78	0.41
1:A:2764:GLU:HB3	1:A:2857:PRO:HD3	2.03	0.41
1:A:4851:TYR:HD1	1:A:4916:PHE:CE1	2.38	0.41
2:H:89:GLY:C	2:H:90:ILE:HD13	2.45	0.41
2:G:25:HIS:CD2	2:G:104:LEU:HD11	2.56	0.41
1:B:869:ARG:HD2	1:B:870:ILE:HG12	2.02	0.41
1:B:1671:ARG:HH12	1:B:1710:GLY:HA2	1.86	0.41
1:B:2191:PHE:CD1	1:B:2198:MET:HG3	2.56	0.41
1:B:2238:TYR:HA	1:B:2241:ARG:NE	2.36	0.41
1:B:2489:LYS:HB2	1:B:2489:LYS:HE3	1.75	0.41
1:B:3180:ASN:HB2	1:B:3183:VAL:HG23	2.03	0.41
1:D:1208:VAL:HG21	1:C:3575:LEU:HD11	2.02	0.41
1:D:1573:MET:CE	1:D:1574:PRO:HD2	2.48	0.41
1:D:1990:GLU:HA	1:D:1993:ARG:NH2	2.29	0.41
1:D:2138:LEU:HD23	1:D:2138:LEU:HA	1.83	0.41
1:D:2191:PHE:CD1	1:D:2198:MET:HG3	2.56	0.41
1:D:2285:GLU:CD	1:D:3856:LEU:HD13	2.45	0.41
1:D:2410:PRO:HB3	1:D:2415:ARG:HB3	2.02	0.41
1:D:4753:HIS:CE1	1:D:4754:ASN:HB2	2.56	0.41
1:C:131:LEU:C	1:C:131:LEU:HD12	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:278:GLN:HB2	1:C:328:LYS:HE2	2.03	0.41
1:C:2191:PHE:CD1	1:C:2198:MET:HG3	2.56	0.41
1:C:2742:THR:HB	1:C:2814:LYS:HB3	2.02	0.41
1:C:3499:ARG:NH2	1:C:3503:TYR:HB3	2.35	0.41
1:C:3974:THR:O	1:C:3978:GLN:HG2	2.21	0.41
1:C:4753:HIS:CE1	1:C:4754:ASN:HB2	2.56	0.41
1:C:4897:ILE:HD12	1:C:4897:ILE:HA	1.91	0.41
1:A:103:TYR:HB3	1:A:152:PRO:HD3	2.03	0.41
1:A:414:PHE:CE2	1:A:418:LEU:HD11	2.55	0.41
1:A:469:ARG:HG3	1:A:470:SER:N	2.36	0.41
1:A:1126:GLY:O	1:A:1142:PRO:HA	2.21	0.41
1:A:1229:ASN:C	1:A:1230:MET:HG2	2.46	0.41
1:A:2318:TYR:CE2	1:A:2394:GLY:HA2	2.55	0.41
1:A:2790:MET:HE3	1:A:2791:LEU:N	2.35	0.41
1:A:2805:TYR:O	1:A:2805:TYR:HD1	2.04	0.41
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.20	0.41
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.54	0.41
1:A:3368:ARG:HA	1:A:3371:LYS:HE2	2.03	0.41
1:A:4097:MET:HE2	1:A:4108:ILE:HG23	2.02	0.41
2:F:55:VAL:HA	1:B:1784:ALA:HA	2.02	0.41
1:B:69:LEU:HD22	1:B:101:LEU:HD11	2.01	0.41
1:B:81:MET:SD	1:B:82:LEU:HD23	2.61	0.41
1:B:640:TYR:CE1	1:B:1636:MET:HB3	2.55	0.41
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.56	0.41
1:B:1433:TYR:CD1	1:B:1578:ALA:HB2	2.56	0.41
1:B:1839:VAL:HG12	1:B:1843:LYS:HD2	2.03	0.41
1:B:2996:LYS:O	1:B:3000:LYS:HG2	2.21	0.41
1:B:3296:LEU:HB3	1:B:3297:PRO:HD3	2.03	0.41
1:B:3996:PHE:HE2	1:B:4023:MET:HE2	1.86	0.41
1:B:4064:MET:SD	1:B:4107:GLU:HG2	2.60	0.41
1:B:4725:LEU:HD11	1:B:4734:ARG:HE	1.85	0.41
1:D:131:LEU:C	1:D:131:LEU:HD12	2.45	0.41
1:D:479:GLN:HG3	1:D:480:GLU:OE2	2.21	0.41
1:D:870:ILE:HD13	1:D:870:ILE:HA	1.90	0.41
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.54	0.41
1:D:1839:VAL:HG12	1:D:1843:LYS:HD2	2.03	0.41
1:D:2482:ASP:OD2	1:D:2482:ASP:C	2.64	0.41
1:D:2686:LEU:HD12	1:D:2686:LEU:HA	1.90	0.41
1:D:2719:TYR:HB2	1:D:2953:LYS:HE2	2.03	0.41
1:D:4159:ARG:HE	1:D:4159:ARG:HB2	1.72	0.41
1:D:4722:ARG:HE	1:D:4748:LEU:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:81:MET:SD	1:C:82:LEU:HD23	2.61	0.41
1:C:722:TRP:CZ2	1:C:727:ALA:HB2	2.54	0.41
1:C:1297:PHE:CD2	1:C:1522:LEU:HA	2.56	0.41
1:C:2010:LEU:HD23	1:C:2010:LEU:HA	1.83	0.41
1:C:2346:VAL:HG23	1:C:2349:ASN:HB2	2.01	0.41
1:C:2410:PRO:HB3	1:C:2415:ARG:HB3	2.02	0.41
1:C:2890:LYS:HD2	1:C:2890:LYS:N	2.35	0.41
1:C:2927:LEU:HA	1:C:2927:LEU:HD13	1.92	0.41
1:C:2996:LYS:O	1:C:3000:LYS:HG2	2.21	0.41
1:C:3368:ARG:HA	1:C:3371:LYS:HE2	2.03	0.41
1:C:3535:LEU:HD12	1:C:3536:ALA:N	2.35	0.41
1:C:3539:ARG:HB3	1:C:3544:ASP:OD1	2.21	0.41
1:C:4061:PHE:CE2	1:C:4065:PHE:HE2	2.39	0.41
1:A:233:ILE:H	1:A:233:ILE:HG13	1.64	0.41
1:A:1739:THR:HG23	1:A:1742:THR:H	1.86	0.41
1:A:1782:PHE:O	2:E:82:TYR:OH	2.29	0.41
1:A:2198:MET:HE2	1:A:2198:MET:N	2.36	0.41
1:A:2221:LYS:H	1:A:2221:LYS:HG2	1.69	0.41
1:A:2495:VAL:HG13	1:A:2496:PRO:HD2	2.03	0.41
1:A:2579:VAL:O	1:A:2582:MET:HE2	2.20	0.41
1:A:2702:CYS:O	1:A:2706:ILE:HG13	2.20	0.41
1:A:2719:TYR:HB2	1:A:2953:LYS:HE2	2.03	0.41
1:A:2742:THR:HB	1:A:2814:LYS:HB3	2.02	0.41
1:A:2890:LYS:N	1:A:2890:LYS:HD2	2.35	0.41
1:A:3154:ASP:OD1	1:A:3283:ARG:NH2	2.53	0.41
1:A:3782:MET:HE3	1:A:3782:MET:HA	2.02	0.41
1:A:3996:PHE:HE2	1:A:4023:MET:HE2	1.86	0.41
1:B:414:PHE:CE2	1:B:418:LEU:HD11	2.55	0.41
1:B:2928:LYS:HA	1:B:2928:LYS:HD3	1.87	0.41
1:B:3023:LYS:HB3	1:B:3023:LYS:HE3	1.89	0.41
1:D:754:SER:HA	1:D:768:PHE:O	2.20	0.41
1:D:2021:CYS:HA	1:D:2022:PRO:HD3	1.94	0.41
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.54	0.41
1:D:4061:PHE:CE2	1:D:4065:PHE:HE2	2.39	0.41
1:D:4202:ARG:O	1:D:4206:GLU:HG2	2.21	0.41
1:C:418:LEU:HA	1:C:421:PHE:CE1	2.56	0.41
1:C:688:LEU:HD12	1:C:688:LEU:HA	1.95	0.41
1:C:744:VAL:HG22	1:C:759:ILE:HD13	2.01	0.41
1:C:754:SER:HA	1:C:768:PHE:O	2.20	0.41
1:C:2336:ARG:HH11	1:C:2336:ARG:C	2.29	0.41
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3408:LEU:HD23	1:C:3408:LEU:HA	1.92	0.41
1:C:4769:MET:H	1:C:4769:MET:HE3	1.86	0.41
1:A:81:MET:SD	1:A:82:LEU:HD23	2.61	0.41
1:A:274:LEU:HD22	1:A:280:LEU:HD23	2.03	0.41
1:A:479:GLN:HG3	1:A:480:GLU:OE2	2.21	0.41
1:A:604:CYS:SG	1:A:1668:ARG:NH1	2.94	0.41
1:A:683:ARG:NH1	1:A:709:ASP:OD1	2.45	0.41
1:A:1079:LYS:HD2	1:A:1655:GLU:HG3	2.03	0.41
1:A:1211:LEU:HD12	1:A:1211:LEU:H	1.84	0.41
1:A:1231[B]:GLN:NE2	1:A:1828:ASP:O	2.48	0.41
1:A:1619:ARG:HE	1:A:1619:ARG:HB2	1.72	0.41
1:A:1839:VAL:HG12	1:A:1843:LYS:HD2	2.03	0.41
1:A:2191:PHE:CD1	1:A:2198:MET:HG3	2.56	0.41
1:A:2410:PRO:HB3	1:A:2415:ARG:HB3	2.02	0.41
1:A:2482:ASP:OD2	1:A:2482:ASP:C	2.64	0.41
1:A:2737:PRO:O	1:A:2888:ARG:NH2	2.47	0.41
1:A:2742:THR:HB	1:A:2814:LYS:HD2	2.03	0.41
1:A:3292:PRO:HA	1:A:3293:PRO:HD3	1.93	0.41
1:A:3296:LEU:HB3	1:A:3297:PRO:HD3	2.03	0.41
1:A:3535:LEU:HD12	1:A:3536:ALA:N	2.36	0.41
1:A:3539:ARG:HB3	1:A:3544:ASP:OD1	2.21	0.41
1:A:3644:LEU:HD23	1:A:3645:PRO:O	2.21	0.41
1:A:3974:THR:O	1:A:3978:GLN:HG2	2.21	0.41
1:A:4753:HIS:CE1	1:A:4754:ASN:HB2	2.56	0.41
1:A:4985:LEU:HD23	3:A:5301:ATP:N1	2.36	0.41
1:B:127:MET:HE3	1:B:127:MET:N	2.26	0.41
1:B:604:CYS:SG	1:B:1668:ARG:NH1	2.94	0.41
1:B:985:VAL:HG11	1:B:1040:CYS:HB2	2.01	0.41
1:B:1134:LEU:HD12	1:B:1134:LEU:HA	1.91	0.41
1:B:1658:ASP:N	1:B:1658:ASP:OD1	2.54	0.41
1:B:2208:MET:HE2	1:B:2253:HIS:HB3	2.03	0.41
1:B:2410:PRO:HB3	1:B:2415:ARG:HB3	2.02	0.41
1:B:2495:VAL:HG13	1:B:2496:PRO:HD2	2.03	0.41
1:B:2505:PHE:CE1	1:B:2509:VAL:HG21	2.56	0.41
1:B:2702:CYS:O	1:B:2706:ILE:HG13	2.20	0.41
1:B:2742:THR:HB	1:B:2814:LYS:HB3	2.02	0.41
1:B:2764:GLU:HB3	1:B:2857:PRO:HD3	2.03	0.41
1:B:2805:TYR:O	1:B:2805:TYR:HD1	2.04	0.41
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.20	0.41
1:B:3023:LYS:HD2	1:B:3023:LYS:C	2.46	0.41
1:B:3516:LYS:O	1:B:3519:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3778:MET:HB3	1:B:3778:MET:HE2	1.73	0.41
1:B:3846:ALA:HB1	1:B:3873:LYS:HB2	2.02	0.41
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	2.03	0.41
1:B:3940:LYS:HE2	1:B:3940:LYS:HB2	1.86	0.41
1:B:4753:HIS:CE1	1:B:4754:ASN:HB2	2.56	0.41
1:B:4769:MET:HE3	1:B:4769:MET:H	1.86	0.41
1:D:73:LEU:HD23	1:D:73:LEU:HA	1.84	0.41
1:D:604:CYS:SG	1:D:1668:ARG:NH1	2.94	0.41
1:D:904:HIS:CE1	1:D:906:CYS:HB3	2.55	0.41
1:D:1141:ARG:HH12	1:C:3477:LYS:HG3	1.50	0.41
1:D:1931:LEU:HD22	1:D:1935:VAL:CG1	2.51	0.41
1:D:2244:ARG:NH2	1:D:3860:ASN:HA	2.24	0.41
1:D:2318:TYR:CE2	1:D:2394:GLY:HA2	2.55	0.41
1:D:2495:VAL:HG13	1:D:2496:PRO:HD2	2.03	0.41
1:D:2764:GLU:HB3	1:D:2857:PRO:HD3	2.03	0.41
1:D:3539:ARG:HB3	1:D:3544:ASP:OD1	2.21	0.41
1:D:3587:ASP:HB2	1:D:3592:ILE:HD11	2.03	0.41
1:D:3798:LEU:HD22	1:D:3884:LEU:HA	2.03	0.41
1:D:3996:PHE:HE2	1:D:4023:MET:HE2	1.86	0.41
1:C:275:ARG:HA	1:C:275:ARG:HD3	1.96	0.41
1:C:604:CYS:SG	1:C:1668:ARG:NH1	2.94	0.41
1:C:640:TYR:CE1	1:C:1636:MET:HB3	2.56	0.41
1:C:1433:TYR:CD1	1:C:1578:ALA:HB2	2.56	0.41
1:C:1671:ARG:HH12	1:C:1710:GLY:HA2	1.86	0.41
1:C:2481:LYS:HA	1:C:2481:LYS:HD3	1.78	0.41
1:C:2495:VAL:O	1:C:2498:HIS:HB2	2.21	0.41
1:C:2615:ARG:HB2	1:C:2618:MET:SD	2.61	0.41
1:C:2770:LYS:HD3	1:C:2770:LYS:HA	1.89	0.41
1:C:3114:LYS:CE	1:C:3125:VAL:HG11	2.51	0.41
1:C:3644:LEU:HD23	1:C:3645:PRO:O	2.21	0.41
1:C:3778:MET:O	1:C:3782:MET:HG2	2.21	0.41
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.21	0.41
1:C:4864:ASN:OD1	1:C:4864:ASN:C	2.64	0.41
1:A:213:TYR:CE2	1:A:337:PRO:HG2	2.56	0.41
1:A:891:TRP:NE1	1:A:902:ARG:HE	2.19	0.41
1:A:1225:PRO:HG2	1:A:1228:ILE:HD13	2.03	0.41
1:A:2347:GLU:OE2	1:A:3852:LYS:NZ	2.53	0.41
1:A:2505:PHE:CE1	1:A:2509:VAL:HG21	2.56	0.41
1:A:2679:PHE:HB2	1:A:2706:ILE:CG2	2.51	0.41
1:A:2878:LEU:HA	1:A:2881:ASN:ND2	2.36	0.41
1:A:3798:LEU:HD22	1:A:3884:LEU:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.21	0.41
1:B:170:ILE:HG13	1:B:179:TYR:CD1	2.54	0.41
1:B:479:GLN:HG3	1:B:480:GLU:OE2	2.21	0.41
1:B:891:TRP:NE1	1:B:902:ARG:HE	2.19	0.41
1:B:1225:PRO:HG2	1:B:1228:ILE:HD13	2.03	0.41
1:B:1653:LEU:HD12	1:B:1653:LEU:HA	1.92	0.41
1:B:2418:LEU:HD23	1:B:2418:LEU:HA	1.91	0.41
1:B:2615:ARG:HB2	1:B:2618:MET:SD	2.61	0.41
1:B:3368:ARG:HA	1:B:3371:LYS:HE2	2.03	0.41
1:B:4697:VAL:HG13	1:B:4698:LYS:HE2	2.03	0.41
1:D:137:LEU:HD23	1:D:137:LEU:HA	1.90	0.41
1:D:213:TYR:CE2	1:D:337:PRO:HG2	2.56	0.41
1:D:530:ILE:HG21	1:D:540:PHE:HE1	1.86	0.41
1:D:737:LEU:HD12	1:D:737:LEU:HA	1.84	0.41
1:D:1115:LEU:HD23	1:D:1115:LEU:HA	1.90	0.41
1:D:1225:PRO:HG2	1:D:1228:ILE:HD13	2.03	0.41
1:D:2221:LYS:H	1:D:2221:LYS:HG2	1.69	0.41
1:D:2825:LYS:HD3	1:D:2827:ARG:HH21	1.86	0.41
1:D:3093:ARG:O	1:D:3097:GLU:HG2	2.21	0.41
1:D:3180:ASN:HB2	1:D:3183:VAL:HG23	2.03	0.41
1:D:4097:MET:HE2	1:D:4108:ILE:HG23	2.02	0.41
1:C:553:ARG:O	1:C:557:SER:OG	2.36	0.41
1:C:999:ASP:OD1	1:C:999:ASP:C	2.64	0.41
1:C:1024:TYR:CZ	1:C:1032:LYS:HB2	2.57	0.41
1:C:1839:VAL:HG12	1:C:1843:LYS:HD2	2.03	0.41
1:C:2122:SER:O	1:C:2126:ARG:HG3	2.20	0.41
1:C:2208:MET:HE2	1:C:2253:HIS:HB3	2.02	0.41
1:C:2505:PHE:CE1	1:C:2509:VAL:HG21	2.56	0.41
1:C:3093:ARG:O	1:C:3097:GLU:HG2	2.21	0.41
1:C:3180:ASN:HB2	1:C:3183:VAL:HG23	2.03	0.41
1:C:3821:LYS:O	1:C:3824:LYS:HG3	2.22	0.41
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	2.04	0.41
1:C:4985:LEU:HD23	3:C:5301:ATP:N1	2.36	0.41
1:A:102:LEU:HB3	1:A:105:HIS:HD2	1.85	0.40
1:A:188:GLU:OE1	1:A:188:GLU:N	2.39	0.40
1:A:418:LEU:HD23	1:A:421:PHE:CE1	2.56	0.40
1:A:1154:ASP:O	1:A:1158:ASN:N	2.54	0.40
1:A:3326:ASN:HB2	1:A:3334:TRP:HZ2	1.86	0.40
1:A:4628:VAL:HG21	1:B:4860:ARG:NH2	2.36	0.40
1:A:4646:LEU:HD23	1:A:4646:LEU:HA	1.86	0.40
2:G:23:VAL:HG12	2:G:104:LEU:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:TYR:CE2	1:B:337:PRO:HG2	2.57	0.40
1:B:469:ARG:HG3	1:B:470:SER:N	2.36	0.40
1:B:1842:LEU:HD23	1:B:1842:LEU:HA	1.87	0.40
1:B:2362:GLU:H	1:B:2362:GLU:CD	2.25	0.40
1:B:2482:ASP:OD2	1:B:2482:ASP:C	2.64	0.40
1:B:2679:PHE:HB2	1:B:2706:ILE:CG2	2.51	0.40
1:B:2878:LEU:HA	1:B:2881:ASN:ND2	2.36	0.40
1:B:3587:ASP:HB2	1:B:3592:ILE:HD11	2.03	0.40
1:B:4753:HIS:ND1	1:B:4754:ASN:HB2	2.37	0.40
1:D:103:TYR:HB3	1:D:152:PRO:HD3	2.03	0.40
1:D:127:MET:HE3	1:D:127:MET:N	2.26	0.40
1:D:790:ARG:HG3	1:D:1626:TRP:O	2.22	0.40
1:D:1126:GLY:O	1:D:1142:PRO:HA	2.20	0.40
1:D:1433:TYR:CD1	1:D:1578:ALA:HB2	2.56	0.40
1:D:2198:MET:HE2	1:D:2198:MET:N	2.36	0.40
1:D:2362:GLU:H	1:D:2362:GLU:CD	2.25	0.40
1:D:2700:MET:HE3	1:D:2701:PRO:HD3	2.02	0.40
1:D:2871:LEU:HD23	1:D:2871:LEU:HA	1.88	0.40
1:D:2881:ASN:O	1:D:2885:THR:HG23	2.20	0.40
1:D:2996:LYS:O	1:D:3000:LYS:HG2	2.21	0.40
1:D:3509:LEU:HD23	1:D:3509:LEU:HA	1.89	0.40
1:C:188:GLU:OE1	1:C:188:GLU:N	2.39	0.40
1:C:479:GLN:HG3	1:C:480:GLU:OE2	2.21	0.40
1:C:631:LEU:HD23	1:C:631:LEU:HA	1.85	0.40
1:C:869:ARG:HE	1:C:1051:TYR:HH	1.68	0.40
1:C:1753:LYS:HE2	1:C:1758:ARG:HA	2.03	0.40
1:C:2230:THR:O	1:C:2234:ARG:HG2	2.22	0.40
1:C:2765:LYS:HD3	1:C:2765:LYS:HA	1.92	0.40
1:C:2806:ARG:HG3	1:C:2810:LYS:HZ3	1.84	0.40
1:C:2909:ASP:OD1	1:C:2909:ASP:N	2.54	0.40
1:C:3996:PHE:HE2	1:C:4023:MET:HE2	1.86	0.40
1:A:278:GLN:HB2	1:A:328:LYS:HE2	2.03	0.40
1:A:492:ASP:O	1:A:496:VAL:HG13	2.20	0.40
1:A:688:LEU:HD12	1:A:688:LEU:HA	1.95	0.40
1:A:1260:MET:HE3	1:A:1269:CYS:HB2	2.03	0.40
1:A:2092:GLN:HE21	1:A:2092:GLN:HB3	1.61	0.40
1:A:2310:CYS:HB3	1:A:2324:ASN:CG	2.47	0.40
1:A:3093:ARG:O	1:A:3097:GLU:HG2	2.21	0.40
1:A:4697:VAL:HG13	1:A:4698:LYS:HE2	2.03	0.40
1:B:418:LEU:HD23	1:B:421:PHE:CE1	2.56	0.40
1:B:1260:MET:HE3	1:B:1269:CYS:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2198:MET:HE2	1:B:2198:MET:N	2.36	0.40
1:B:2347:GLU:OE2	1:B:3852:LYS:NZ	2.53	0.40
1:B:2412:GLU:OE2	1:B:2412:GLU:N	2.51	0.40
1:B:3093:ARG:O	1:B:3097:GLU:HG2	2.21	0.40
1:B:3758:MET:HE3	1:B:4719:PHE:HE1	1.86	0.40
1:B:3821:LYS:O	1:B:3824:LYS:HG3	2.22	0.40
1:B:4061:PHE:CE2	1:B:4065:PHE:HE2	2.39	0.40
1:B:4096:ALA:O	1:B:4099:SER:OG	2.28	0.40
1:B:4549:VAL:O	1:B:4553:ASN:ND2	2.54	0.40
1:B:4722:ARG:HE	1:B:4748:LEU:HB2	1.86	0.40
1:B:5006:GLN:H	1:B:5006:GLN:HG3	1.57	0.40
1:D:214:VAL:HG21	1:D:390:LEU:HD12	2.03	0.40
1:D:645:ARG:HG2	1:D:826:ILE:HG12	2.03	0.40
1:D:1231[B]:GLN:NE2	1:D:1828:ASP:O	2.48	0.40
1:D:1653:LEU:HD12	1:D:1653:LEU:HA	1.92	0.40
1:D:1739:THR:HG23	1:D:1742:THR:H	1.86	0.40
1:D:1931:LEU:HD22	1:D:1935:VAL:HG12	2.03	0.40
1:D:2615:ARG:HB2	1:D:2618:MET:SD	2.61	0.40
1:D:2794:TYR:HA	1:D:2794:TYR:HD1	1.80	0.40
1:D:3018:LEU:HD23	1:D:3018:LEU:HA	1.93	0.40
1:D:3537:LYS:HE2	1:D:3537:LYS:HB3	1.70	0.40
1:D:3778:MET:O	1:D:3782:MET:HG2	2.21	0.40
1:C:469:ARG:HG3	1:C:470:SER:N	2.36	0.40
1:C:1033:ARG:HA	1:C:1036:ARG:HH11	1.86	0.40
1:C:1476:MET:O	1:C:1484:HIS:N	2.52	0.40
1:C:2285:GLU:CD	1:C:3856:LEU:HD13	2.45	0.40
1:C:2286:LEU:HD23	1:C:2286:LEU:HA	1.89	0.40
1:C:2347:GLU:OE2	1:C:3852:LYS:NZ	2.53	0.40
1:C:3248:ARG:NH1	1:C:3252:ASP:OD1	2.55	0.40
1:C:4746:ALA:O	1:C:4750:ILE:HG22	2.21	0.40
1:A:530:ILE:HG21	1:A:540:PHE:HE1	1.87	0.40
1:A:954:LYS:HA	1:A:954:LYS:HD3	1.74	0.40
1:A:1006:SER:C	1:A:1021:LEU:HD12	2.45	0.40
1:A:1433:TYR:CG	1:A:1578:ALA:HB2	2.56	0.40
1:A:2336:ARG:HH11	1:A:2336:ARG:C	2.29	0.40
1:A:2489:LYS:HB2	1:A:2489:LYS:HE3	1.75	0.40
1:A:2615:ARG:HB2	1:A:2618:MET:SD	2.61	0.40
1:A:2825:LYS:HD3	1:A:2827:ARG:HH21	1.86	0.40
1:A:2996:LYS:O	1:A:3000:LYS:HG2	2.21	0.40
1:A:4069:LYS:O	1:A:4072:VAL:HG22	2.22	0.40
1:A:4746:ALA:O	1:A:4750:ILE:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:TYR:HB3	1:B:152:PRO:HD3	2.03	0.40
1:B:345:LEU:HD23	1:B:345:LEU:HA	1.74	0.40
1:B:1433:TYR:CG	1:B:1578:ALA:HB2	2.56	0.40
1:B:1931:LEU:HD22	1:B:1935:VAL:CG1	2.51	0.40
1:B:2286:LEU:HD23	1:B:2286:LEU:HA	1.89	0.40
1:B:2495:VAL:O	1:B:2498:HIS:HB2	2.20	0.40
1:B:2793:PRO:O	1:B:2797:PHE:N	2.55	0.40
1:B:3576:TYR:O	1:B:3582:ARG:HG3	2.20	0.40
1:B:3644:LEU:HD23	1:B:3645:PRO:O	2.21	0.40
1:B:4010:ILE:HA	1:B:4013:LEU:HB3	2.03	0.40
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.22	0.40
1:D:414:PHE:CE2	1:D:418:LEU:HD11	2.55	0.40
1:D:1297:PHE:CD2	1:D:1522:LEU:HA	2.56	0.40
1:D:1460:HIS:HB3	1:D:1600:LEU:HD23	2.03	0.40
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.22	0.40
1:D:4697:VAL:HG13	1:D:4698:LYS:HE2	2.03	0.40
1:C:69:LEU:HD22	1:C:101:LEU:HD11	2.01	0.40
1:C:418:LEU:HD23	1:C:421:PHE:CE1	2.56	0.40
1:C:1433:TYR:CG	1:C:1578:ALA:HB2	2.56	0.40
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.54	0.40
1:C:3296:LEU:HB3	1:C:3297:PRO:HD3	2.03	0.40
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	2.03	0.40
1:A:1753:LYS:HE2	1:A:1758:ARG:HA	2.02	0.40
1:A:1828:ASP:OD1	1:A:1828:ASP:N	2.50	0.40
1:A:1931:LEU:HD22	1:A:1935:VAL:CG1	2.51	0.40
1:A:2138:LEU:HD23	1:A:2138:LEU:HA	1.83	0.40
1:A:2495:VAL:O	1:A:2498:HIS:HB2	2.20	0.40
1:A:3023:LYS:C	1:A:3023:LYS:HD2	2.46	0.40
1:A:3475:LYS:HA	1:A:3475:LYS:HD3	1.74	0.40
1:A:3969:ILE:HG21	1:A:3980:LEU:HD12	2.03	0.40
1:A:4549:VAL:O	1:A:4553:ASN:ND2	2.54	0.40
1:A:4769:MET:H	1:A:4769:MET:HE3	1.86	0.40
2:E:2:VAL:HG11	2:E:61:GLU:HB2	2.04	0.40
2:H:11:ASP:OD2	2:H:11:ASP:C	2.65	0.40
1:B:64:ILE:H	1:B:64:ILE:HG12	1.66	0.40
1:B:280:LEU:N	1:B:314:PHE:O	2.49	0.40
1:B:2226:PRO:CB	1:B:2267:MET:HE3	2.36	0.40
1:B:2336:ARG:HH11	1:B:2336:ARG:C	2.29	0.40
1:B:2790:MET:HE3	1:B:2791:LEU:N	2.35	0.40
1:B:2819:TRP:C	1:B:2820:GLU:HG3	2.47	0.40
1:B:2825:LYS:HD3	1:B:2827:ARG:HH21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3209:GLN:H	1:B:3209:GLN:CD	2.26	0.40
1:B:3782:MET:HA	1:B:3782:MET:HE3	2.02	0.40
1:B:3784:SER:O	1:B:3787:LYS:HG3	2.21	0.40
1:D:2336:ARG:HH11	1:D:2336:ARG:C	2.29	0.40
1:D:2505:PHE:CE1	1:D:2509:VAL:HG21	2.56	0.40
1:D:3971:GLY:N	1:D:3972:PRO:HA	2.35	0.40
1:D:4711:PHE:CD2	1:D:4712:PRO:HD3	2.57	0.40
1:D:4769:MET:H	1:D:4769:MET:HE3	1.86	0.40
1:C:790:ARG:HG3	1:C:1626:TRP:O	2.22	0.40
1:C:901:LYS:HA	1:C:901:LYS:HD2	1.91	0.40
1:C:1079:LYS:HD2	1:C:1655:GLU:HG3	2.03	0.40
1:C:1225:PRO:HG2	1:C:1228:ILE:HD13	2.03	0.40
1:C:1739:THR:HG23	1:C:1742:THR:H	1.86	0.40
1:C:2793:PRO:O	1:C:2797:PHE:N	2.55	0.40
1:C:2878:LEU:HA	1:C:2881:ASN:ND2	2.36	0.40
1:C:3333:THR:HA	1:C:3336:LYS:NZ	2.37	0.40
1:C:3516:LYS:O	1:C:3519:PRO:HD2	2.21	0.40
1:C:3551:GLU:HA	1:C:3551:GLU:OE2	2.22	0.40
1:C:3617:LYS:HA	1:C:3617:LYS:HD3	1.84	0.40
1:C:3784:SER:O	1:C:3787:LYS:HG3	2.21	0.40
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.57	0.40
1:A:1658:ASP:OD1	1:A:1658:ASP:N	2.54	0.40
1:A:1671:ARG:HH12	1:A:1710:GLY:HA2	1.86	0.40
1:A:2668:SER:C	1:A:2670:GLU:H	2.29	0.40
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.47	0.40
1:A:3249:LEU:HD12	1:A:3249:LEU:HA	1.87	0.40
1:A:3532:LEU:HD23	1:A:3532:LEU:HA	1.87	0.40
1:A:3551:GLU:HA	1:A:3551:GLU:OE2	2.22	0.40
1:A:3969:ILE:HD12	1:A:4030:LEU:HG	2.04	0.40
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.22	0.40
1:A:4061:PHE:CE2	1:A:4065:PHE:HE2	2.39	0.40
1:A:4217:PHE:CZ	1:A:4234:PHE:HA	2.57	0.40
1:B:418:LEU:HA	1:B:421:PHE:CE1	2.56	0.40
1:B:790:ARG:HG3	1:B:1626:TRP:O	2.22	0.40
1:B:1033:ARG:HA	1:B:1036:ARG:HH11	1.86	0.40
1:B:1079:LYS:HD2	1:B:1655:GLU:HG3	2.03	0.40
1:B:1476:MET:O	1:B:1484:HIS:N	2.52	0.40
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.54	0.40
1:B:1990:GLU:HA	1:B:1993:ARG:NH2	2.29	0.40
1:B:2151:ASP:OD1	1:B:2189:LYS:HG2	2.22	0.40
1:B:2632:ILE:H	1:B:2632:ILE:HD12	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4985:LEU:HD23	3:B:5301:ATP:N1	2.36	0.40
1:D:69:LEU:HD22	1:D:101:LEU:HD11	2.02	0.40
1:D:233:ILE:H	1:D:233:ILE:HG13	1.64	0.40
1:D:492:ASP:O	1:D:496:VAL:HG13	2.20	0.40
1:D:891:TRP:NE1	1:D:902:ARG:HE	2.19	0.40
1:D:999:ASP:OD1	1:D:999:ASP:C	2.64	0.40
1:D:2765:LYS:HD3	1:D:2765:LYS:HA	1.92	0.40
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	2.03	0.40
1:D:3516:LYS:O	1:D:3519:PRO:HD2	2.21	0.40
1:D:3778:MET:HE2	1:D:3778:MET:HB3	1.74	0.40
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	2.04	0.40
1:D:4549:VAL:O	1:D:4553:ASN:ND2	2.54	0.40
1:D:4581:LYS:HE2	1:D:4581:LYS:HB2	1.64	0.40
1:C:73:LEU:HD23	1:C:73:LEU:HA	1.84	0.40
1:C:289:ARG:HH11	1:C:301:VAL:HG23	1.87	0.40
1:C:2198:MET:HE2	1:C:2198:MET:N	2.36	0.40
1:C:2742:THR:HB	1:C:2814:LYS:HD2	2.03	0.40
1:C:2794:TYR:HA	1:C:2794:TYR:HD1	1.80	0.40
1:C:2811:GLU:HA	1:C:2814:LYS:HZ3	1.85	0.40
1:C:3023:LYS:HD2	1:C:3023:LYS:C	2.46	0.40
1:C:3848:GLU:OE2	1:C:3849:ARG:HD2	2.21	0.40
1:C:3969:ILE:HG21	1:C:3980:LEU:HD12	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4306 (98%)	79 (2%)	0	100	100
1	B	4385/5037 (87%)	4305 (98%)	80 (2%)	0	100	100
1	C	4385/5037 (87%)	4307 (98%)	78 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	4385/5037 (87%)	4304 (98%)	81 (2%)	0	100	100
2	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	104 (99%)	1 (1%)	0	100	100
All	All	17960/20580 (87%)	17635 (98%)	325 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3836/4276 (90%)	3760 (98%)	76 (2%)	48	72
1	B	3836/4276 (90%)	3760 (98%)	76 (2%)	48	72
1	C	3836/4276 (90%)	3759 (98%)	77 (2%)	48	72
1	D	3836/4276 (90%)	3758 (98%)	78 (2%)	48	72
2	E	89/90 (99%)	87 (98%)	2 (2%)	45	71
2	F	89/90 (99%)	85 (96%)	4 (4%)	24	58
2	G	89/90 (99%)	85 (96%)	4 (4%)	24	58
2	H	89/90 (99%)	87 (98%)	2 (2%)	45	71
All	All	15700/17464 (90%)	15381 (98%)	319 (2%)	48	72

All (319) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	69	LEU
1	A	182	LEU
1	A	191	VAL
1	A	222	LEU
1	A	265	LEU

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Mol	Chain	Res	Type
1	A	309	THR
1	A	328	LYS
1	A	393	CYS
1	A	790	ARG
1	A	791	PHE
1	A	902	ARG
1	A	950	LEU
1	A	953	THR
1	A	959	TYR
1	A	960	MET
1	A	984	LEU
1	A	1172	ASP
1	A	1231[A]	GLN
1	A	1231[B]	GLN
1	A	1435	TYR
1	A	1460	HIS
1	A	1492	CYS
1	A	1538	THR
1	A	1560	ASN
1	A	1653	LEU
1	A	1747	LEU
1	A	1931	LEU
1	A	2044	ILE
1	A	2140	ARG
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2314	LEU
1	A	2414	ASN
1	A	2596	THR
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2627	VAL
1	A	2725	LYS
1	A	2744	ASN
1	A	2750	LYS
1	A	2786	LYS
1	A	2794	TYR
1	A	2797	PHE
1	A	2806	ARG
1	A	2825	LYS
1	A	2827	ARG
1	A	2891	LYS

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Mol	Chain	Res	Type
1	A	2904	LEU
1	A	2905	LEU
1	A	2931	GLN
1	A	2937	VAL
1	A	3087	ILE
1	A	3128	ASN
1	A	3131	TYR
1	A	3137	LEU
1	A	3147	ILE
1	A	3182	TYR
1	A	3229	ILE
1	A	3331	GLU
1	A	3394	VAL
1	A	3501	ASP
1	A	3511	VAL
1	A	3582	ARG
1	A	3622	LYS
1	A	3628	ARG
1	A	3757	GLU
1	A	3874	VAL
1	A	3899	PHE
1	A	3912	THR
1	A	4231	MET
1	A	4580	TYR
1	A	4710	SER
1	A	4756	ARG
1	A	4816	ILE
1	A	4876	CYS
1	A	4989	MET
2	E	2	VAL
2	E	14	THR
2	H	2	VAL
2	H	14	THR
2	G	2	VAL
2	G	14	THR
2	G	25	HIS
2	G	43	ASN
2	F	2	VAL
2	F	14	THR
2	F	38	SER
2	F	102	GLU
1	B	69	LEU

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Mol	Chain	Res	Type
1	B	182	LEU
1	B	191	VAL
1	B	222	LEU
1	B	265	LEU
1	B	309	THR
1	B	328	LYS
1	B	393	CYS
1	B	790	ARG
1	B	791	PHE
1	B	902	ARG
1	B	950	LEU
1	B	953	THR
1	B	959	TYR
1	B	960	MET
1	B	984	LEU
1	B	1172	ASP
1	B	1231[A]	GLN
1	B	1231[B]	GLN
1	B	1435	TYR
1	B	1460	HIS
1	B	1492	CYS
1	B	1538	THR
1	B	1560	ASN
1	B	1653	LEU
1	B	1747	LEU
1	B	1931	LEU
1	B	2044	ILE
1	B	2140	ARG
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2314	LEU
1	B	2414	ASN
1	B	2596	THR
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2627	VAL
1	B	2666	VAL
1	B	2725	LYS
1	B	2744	ASN
1	B	2750	LYS
1	B	2786	LYS
1	B	2794	TYR

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Mol	Chain	Res	Type
1	B	2797	PHE
1	B	2806	ARG
1	B	2825	LYS
1	B	2827	ARG
1	B	2891	LYS
1	B	2904	LEU
1	B	2905	LEU
1	B	2931	GLN
1	B	2937	VAL
1	B	3087	ILE
1	B	3128	ASN
1	B	3131	TYR
1	B	3137	LEU
1	B	3147	ILE
1	B	3182	TYR
1	B	3331	GLU
1	B	3394	VAL
1	B	3501	ASP
1	B	3511	VAL
1	B	3582	ARG
1	B	3622	LYS
1	B	3628	ARG
1	B	3757	GLU
1	B	3874	VAL
1	B	3899	PHE
1	B	3912	THR
1	B	4231	MET
1	B	4580	TYR
1	B	4710	SER
1	B	4756	ARG
1	B	4816	ILE
1	B	4876	CYS
1	B	4989	MET
1	D	69	LEU
1	D	182	LEU
1	D	191	VAL
1	D	222	LEU
1	D	265	LEU
1	D	309	THR
1	D	328	LYS
1	D	393	CYS
1	D	483	MET

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Mol	Chain	Res	Type
1	D	545	ASP
1	D	790	ARG
1	D	791	PHE
1	D	902	ARG
1	D	950	LEU
1	D	953	THR
1	D	959	TYR
1	D	960	MET
1	D	984	LEU
1	D	1172	ASP
1	D	1231[A]	GLN
1	D	1231[B]	GLN
1	D	1435	TYR
1	D	1460	HIS
1	D	1492	CYS
1	D	1538	THR
1	D	1560	ASN
1	D	1653	LEU
1	D	1747	LEU
1	D	1931	LEU
1	D	2044	ILE
1	D	2140	ARG
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2314	LEU
1	D	2414	ASN
1	D	2596	THR
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2627	VAL
1	D	2725	LYS
1	D	2744	ASN
1	D	2750	LYS
1	D	2794	TYR
1	D	2797	PHE
1	D	2806	ARG
1	D	2825	LYS
1	D	2827	ARG
1	D	2891	LYS
1	D	2904	LEU
1	D	2905	LEU
1	D	2931	GLN

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Mol	Chain	Res	Type
1	D	2937	VAL
1	D	3087	ILE
1	D	3128	ASN
1	D	3131	TYR
1	D	3137	LEU
1	D	3147	ILE
1	D	3182	TYR
1	D	3229	ILE
1	D	3331	GLU
1	D	3394	VAL
1	D	3501	ASP
1	D	3511	VAL
1	D	3582	ARG
1	D	3622	LYS
1	D	3628	ARG
1	D	3757	GLU
1	D	3874	VAL
1	D	3899	PHE
1	D	3912	THR
1	D	4071	ILE
1	D	4231	MET
1	D	4580	TYR
1	D	4710	SER
1	D	4756	ARG
1	D	4816	ILE
1	D	4876	CYS
1	D	4989	MET
1	C	69	LEU
1	C	182	LEU
1	C	191	VAL
1	C	222	LEU
1	C	265	LEU
1	C	309	THR
1	C	328	LYS
1	C	393	CYS
1	C	790	ARG
1	C	791	PHE
1	C	902	ARG
1	C	950	LEU
1	C	953	THR
1	C	959	TYR
1	C	960	MET

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Mol	Chain	Res	Type
1	C	984	LEU
1	C	1172	ASP
1	C	1231[A]	GLN
1	C	1231[B]	GLN
1	C	1435	TYR
1	C	1460	HIS
1	C	1492	CYS
1	C	1538	THR
1	C	1560	ASN
1	C	1653	LEU
1	C	1747	LEU
1	C	1931	LEU
1	C	2044	ILE
1	C	2140	ARG
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2314	LEU
1	C	2414	ASN
1	C	2596	THR
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2627	VAL
1	C	2725	LYS
1	C	2744	ASN
1	C	2750	LYS
1	C	2794	TYR
1	C	2797	PHE
1	C	2806	ARG
1	C	2825	LYS
1	C	2827	ARG
1	C	2891	LYS
1	C	2904	LEU
1	C	2905	LEU
1	C	2931	GLN
1	C	2937	VAL
1	C	3087	ILE
1	C	3128	ASN
1	C	3131	TYR
1	C	3137	LEU
1	C	3147	ILE
1	C	3182	TYR
1	C	3229	ILE

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Mol	Chain	Res	Type
1	C	3331	GLU
1	C	3394	VAL
1	C	3501	ASP
1	C	3511	VAL
1	C	3582	ARG
1	C	3622	LYS
1	C	3628	ARG
1	C	3757	GLU
1	C	3874	VAL
1	C	3899	PHE
1	C	3912	THR
1	C	4071	ILE
1	C	4231	MET
1	C	4580	TYR
1	C	4710	SER
1	C	4756	ARG
1	C	4768	LEU
1	C	4816	ILE
1	C	4876	CYS
1	C	4989	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (173) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	23	GLN
1	A	98	HIS
1	A	138	GLN
1	A	201	ASN
1	A	241	GLN
1	A	412	ASN
1	A	579	GLN
1	A	581	ASN
1	A	593	HIS
1	A	877	ASN
1	A	911	HIS
1	A	1035	ASN
1	A	1125	ASN
1	A	1220	GLN
1	A	1660	GLN
1	A	1972	ASN
1	A	2036	GLN
1	A	2041	HIS

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Mol	Chain	Res	Type
1	A	2092	GLN
1	A	2184	ASN
1	A	2260	ASN
1	A	2324	ASN
1	A	2342	ASN
1	A	2414	ASN
1	A	2734	ASN
1	A	2772	GLN
1	A	2858	GLN
1	A	2881	ASN
1	A	2883	HIS
1	A	3013	HIS
1	A	3180	ASN
1	A	3214	ASN
1	A	3430	ASN
1	A	3597	GLN
1	A	3700	GLN
1	A	3766	GLN
1	A	3781	GLN
1	A	3897	ASN
1	A	4009	GLN
1	A	4037	ASN
1	A	4162	ASN
1	A	4246	GLN
1	A	4662	ASN
1	A	4949	GLN
2	E	65	GLN
2	H	20	GLN
2	G	65	GLN
1	B	23	GLN
1	B	44	ASN
1	B	98	HIS
1	B	138	GLN
1	B	201	ASN
1	B	412	ASN
1	B	581	ASN
1	B	593	HIS
1	B	877	ASN
1	B	911	HIS
1	B	1035	ASN
1	B	1125	ASN
1	B	1484	HIS

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Mol	Chain	Res	Type
1	B	1660	GLN
1	B	1702	HIS
1	B	1972	ASN
1	B	2036	GLN
1	B	2041	HIS
1	B	2092	GLN
1	B	2184	ASN
1	B	2260	ASN
1	B	2324	ASN
1	B	2342	ASN
1	B	2414	ASN
1	B	2734	ASN
1	B	2772	GLN
1	B	2858	GLN
1	B	2881	ASN
1	B	3013	HIS
1	B	3180	ASN
1	B	3214	ASN
1	B	3430	ASN
1	B	3597	GLN
1	B	3700	GLN
1	B	3766	GLN
1	B	4009	GLN
1	B	4037	ASN
1	B	4162	ASN
1	B	4662	ASN
1	B	4949	GLN
1	D	23	GLN
1	D	44	ASN
1	D	98	HIS
1	D	138	GLN
1	D	201	ASN
1	D	241	GLN
1	D	412	ASN
1	D	579	GLN
1	D	581	ASN
1	D	593	HIS
1	D	877	ASN
1	D	1035	ASN
1	D	1125	ASN
1	D	1660	GLN
1	D	1702	HIS

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Mol	Chain	Res	Type
1	D	1972	ASN
1	D	2036	GLN
1	D	2041	HIS
1	D	2092	GLN
1	D	2169	GLN
1	D	2184	ASN
1	D	2213	ASN
1	D	2260	ASN
1	D	2324	ASN
1	D	2342	ASN
1	D	2414	ASN
1	D	2734	ASN
1	D	2772	GLN
1	D	2780	ASN
1	D	2858	GLN
1	D	2881	ASN
1	D	2883	HIS
1	D	3013	HIS
1	D	3180	ASN
1	D	3214	ASN
1	D	3418	ASN
1	D	3597	GLN
1	D	3700	GLN
1	D	3766	GLN
1	D	3781	GLN
1	D	4009	GLN
1	D	4037	ASN
1	D	4100	GLN
1	D	4162	ASN
1	D	4662	ASN
1	D	4949	GLN
1	C	23	GLN
1	C	98	HIS
1	C	138	GLN
1	C	201	ASN
1	C	241	GLN
1	C	412	ASN
1	C	579	GLN
1	C	581	ASN
1	C	593	HIS
1	C	877	ASN
1	C	1035	ASN

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Mol	Chain	Res	Type
1	C	1125	ASN
1	C	1220	GLN
1	C	1660	GLN
1	C	1702	HIS
1	C	2036	GLN
1	C	2041	HIS
1	C	2092	GLN
1	C	2169	GLN
1	C	2184	ASN
1	C	2260	ASN
1	C	2324	ASN
1	C	2342	ASN
1	C	2414	ASN
1	C	2734	ASN
1	C	2772	GLN
1	C	2858	GLN
1	C	2881	ASN
1	C	3013	HIS
1	C	3180	ASN
1	C	3214	ASN
1	C	3418	ASN
1	C	3597	GLN
1	C	3700	GLN
1	C	3766	GLN
1	C	4009	GLN
1	C	4037	ASN
1	C	4162	ASN
1	C	4662	ASN
1	C	4949	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	A1BD5	A	5304	-	16,16,16	0.96	1 (6%)	21,23,23	0.77	0
3	ATP	A	5301	-	32,33,33	0.31	0	48,52,52	0.38	0
6	A1BD5	B	5304	-	16,16,16	0.94	1 (6%)	21,23,23	0.77	0
6	A1BD5	C	5304	-	16,16,16	0.94	1 (6%)	21,23,23	0.76	0
3	ATP	C	5301	-	32,33,33	0.31	0	48,52,52	0.38	0
3	ATP	B	5301	-	32,33,33	0.31	0	48,52,52	0.39	0
3	ATP	D	5301	-	32,33,33	0.31	0	48,52,52	0.38	0
6	A1BD5	D	5304	-	16,16,16	0.93	1 (6%)	21,23,23	0.76	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD5	A	5304	-	-	4/4/4/4	0/2/2/2
3	ATP	A	5301	-	-	3/22/38/38	0/3/3/3
6	A1BD5	B	5304	-	-	4/4/4/4	0/2/2/2
6	A1BD5	C	5304	-	-	4/4/4/4	0/2/2/2
3	ATP	C	5301	-	-	3/22/38/38	0/3/3/3
3	ATP	B	5301	-	-	3/22/38/38	0/3/3/3
3	ATP	D	5301	-	-	3/22/38/38	0/3/3/3
6	A1BD5	D	5304	-	-	4/4/4/4	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	5304	A1BD5	C1-C2	-2.21	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	5304	A1BD5	C1-C2	-2.18	1.36	1.39
6	D	5304	A1BD5	C1-C2	-2.14	1.36	1.39
6	C	5304	A1BD5	C1-C2	-2.14	1.36	1.39

There are no bond angle outliers.

There are no chirality outliers.

All (28) torsion outliers are listed below:

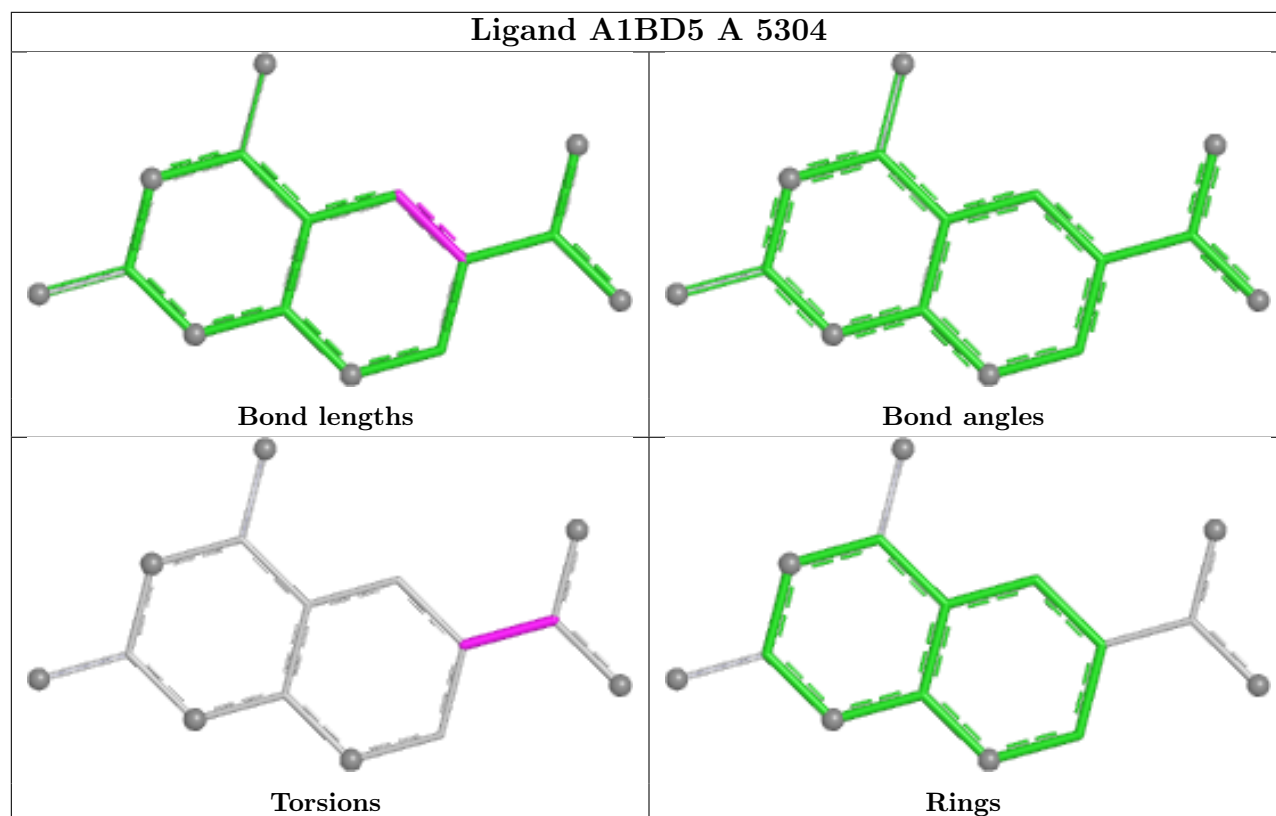
Mol	Chain	Res	Type	Atoms
6	A	5304	A1BD5	C3-C2-C8-O3
6	A	5304	A1BD5	C3-C2-C8-O4
6	B	5304	A1BD5	C3-C2-C8-O3
6	B	5304	A1BD5	C3-C2-C8-O4
6	D	5304	A1BD5	C3-C2-C8-O3
6	D	5304	A1BD5	C3-C2-C8-O4
6	C	5304	A1BD5	C3-C2-C8-O3
6	C	5304	A1BD5	C3-C2-C8-O4
6	A	5304	A1BD5	C1-C2-C8-O3
6	B	5304	A1BD5	C1-C2-C8-O3
6	D	5304	A1BD5	C1-C2-C8-O3
6	C	5304	A1BD5	C1-C2-C8-O3
6	A	5304	A1BD5	C1-C2-C8-O4
6	B	5304	A1BD5	C1-C2-C8-O4
6	D	5304	A1BD5	C1-C2-C8-O4
6	C	5304	A1BD5	C1-C2-C8-O4
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	D	5301	ATP	C3'-C4'-C5'-O5'
3	C	5301	ATP	C3'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C1'-N9-C8
3	B	5301	ATP	O4'-C1'-N9-C8
3	D	5301	ATP	O4'-C1'-N9-C8
3	C	5301	ATP	O4'-C1'-N9-C8

There are no ring outliers.

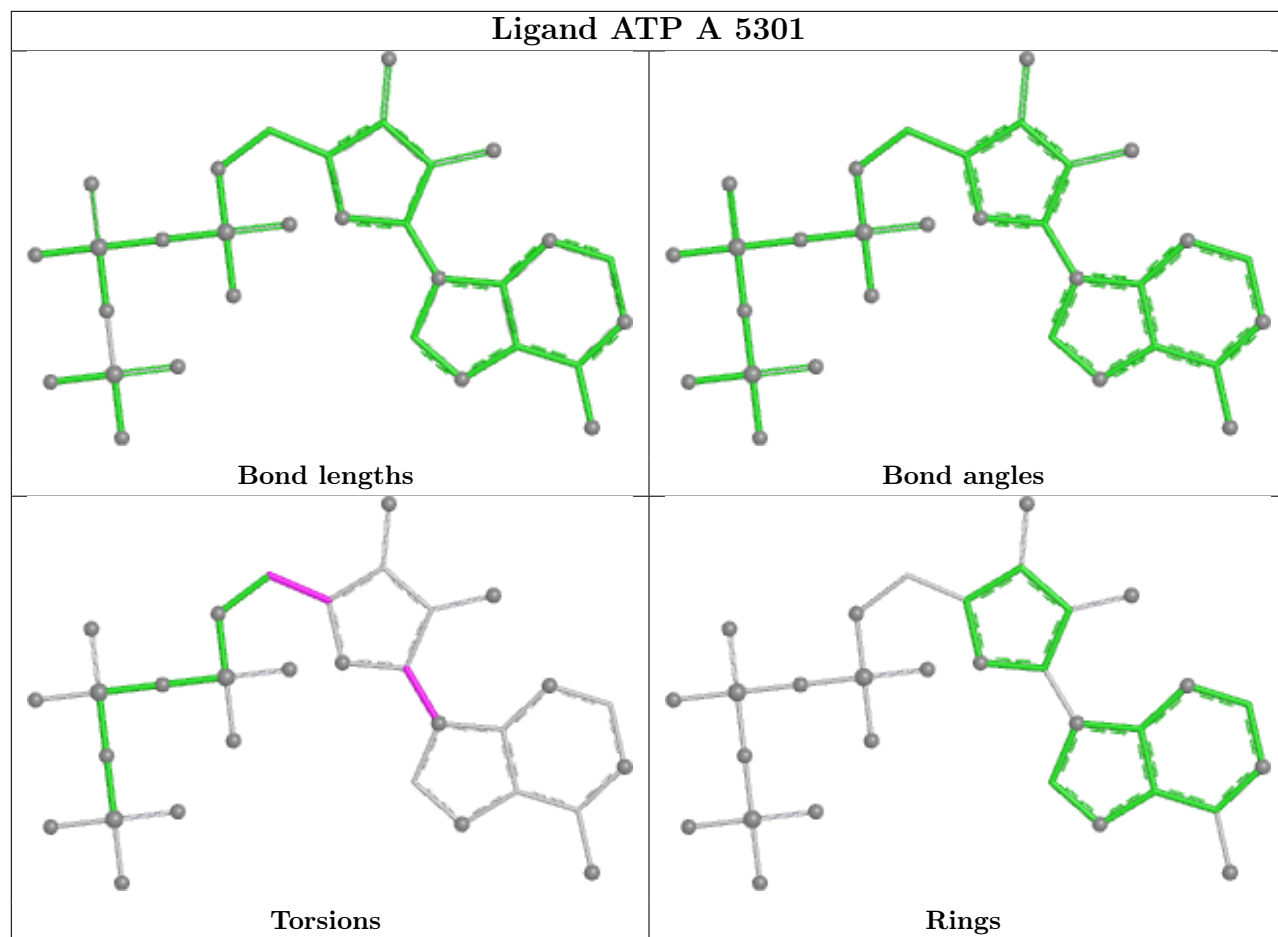
3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	5301	ATP	1	0
3	C	5301	ATP	1	0
3	B	5301	ATP	1	0

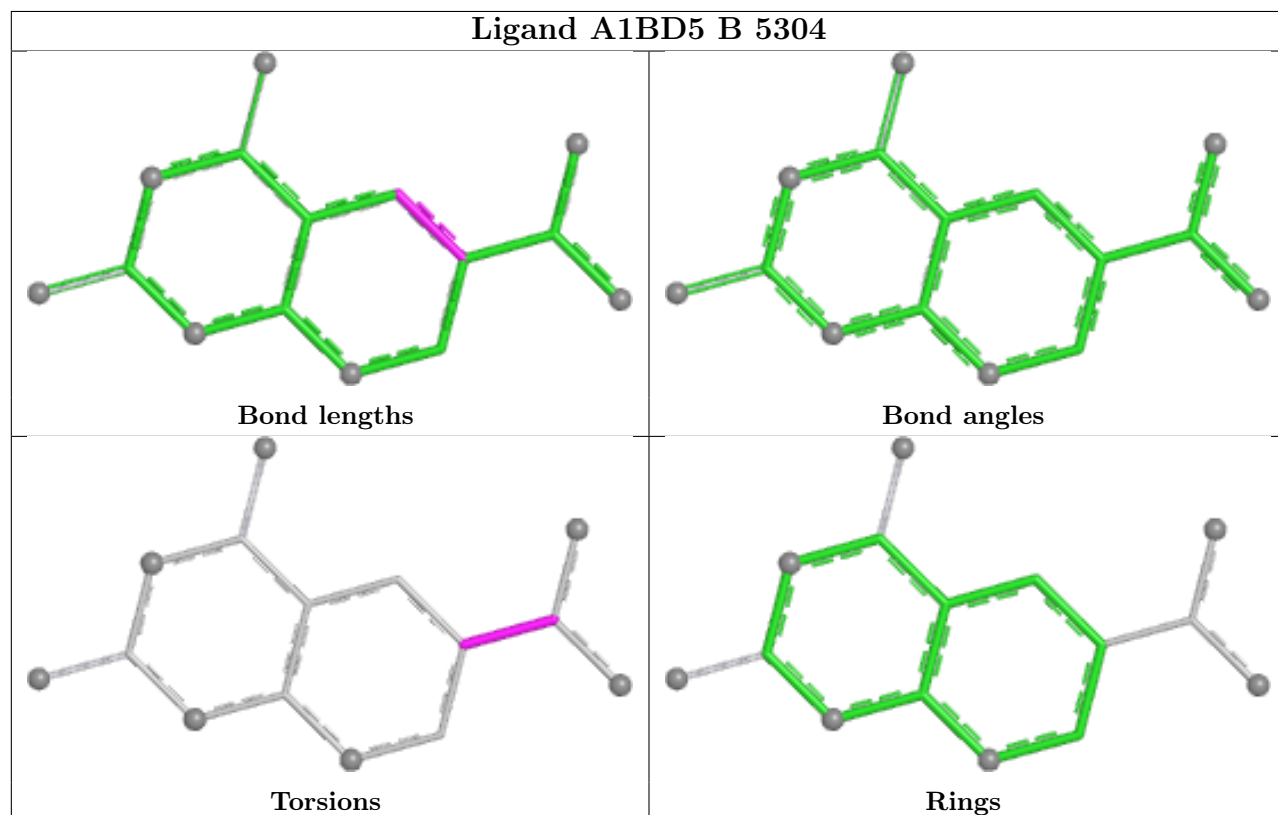
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



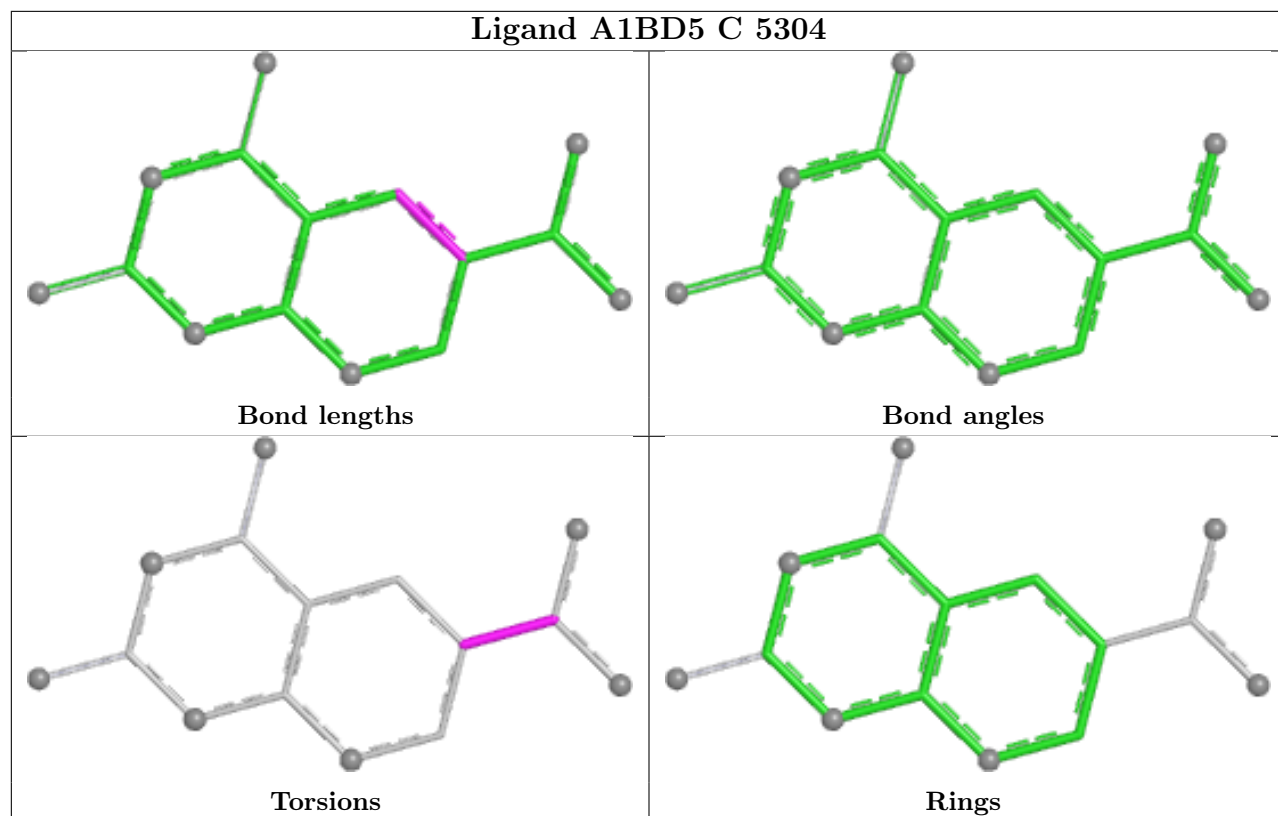
Ligand ATP A 5301



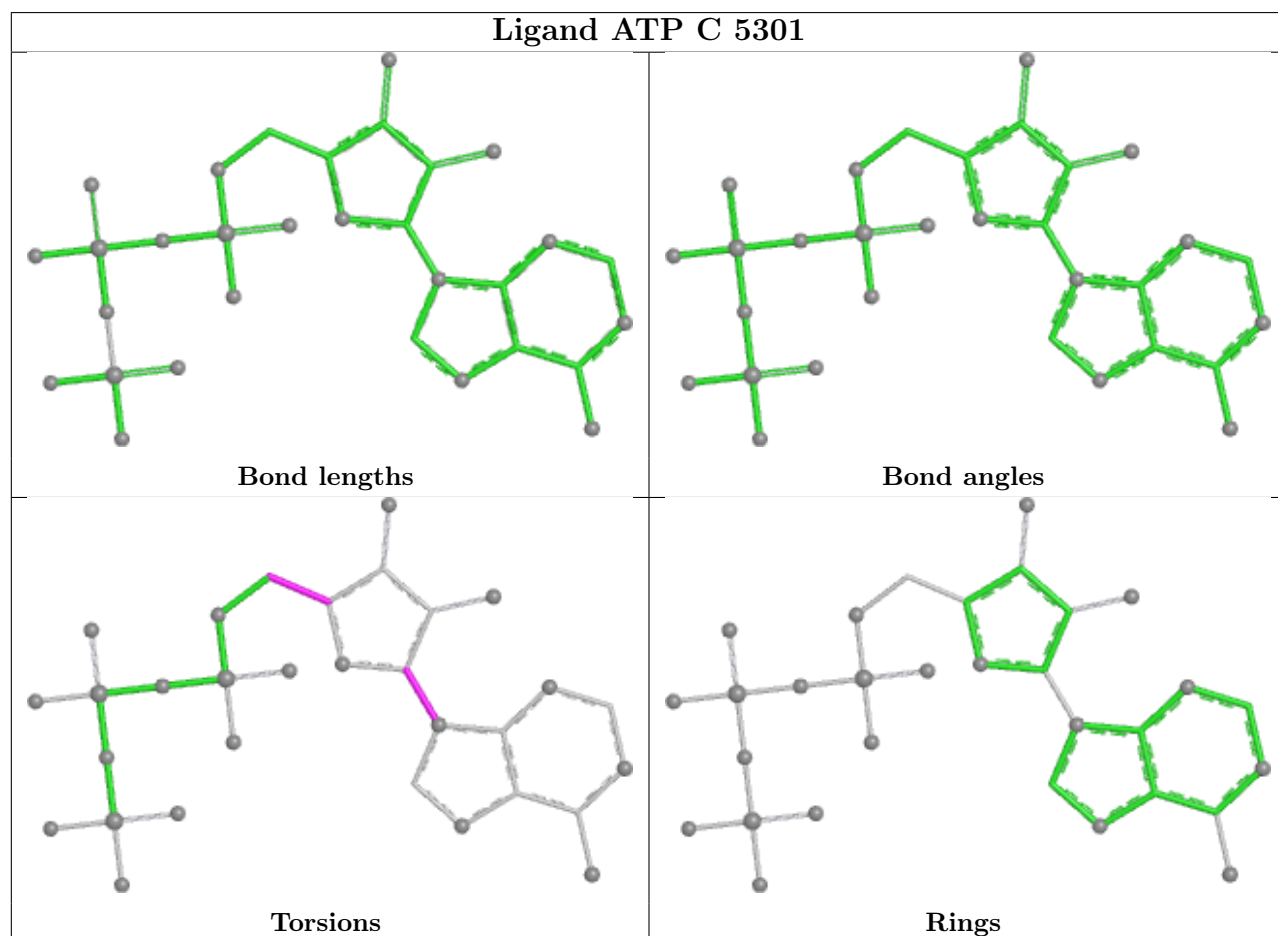
Ligand A1BD5 B 5304

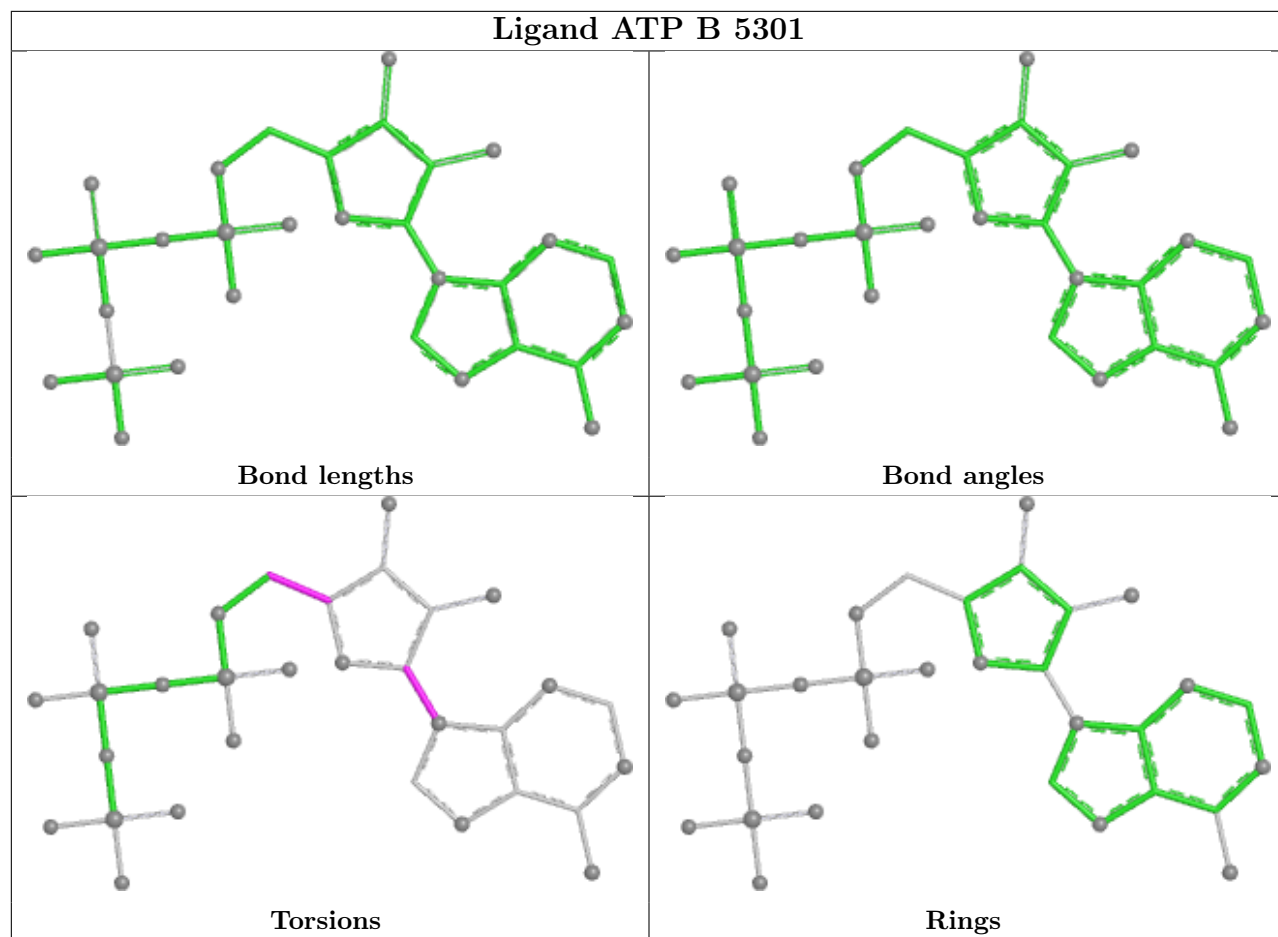


Ligand A1BD5 C 5304

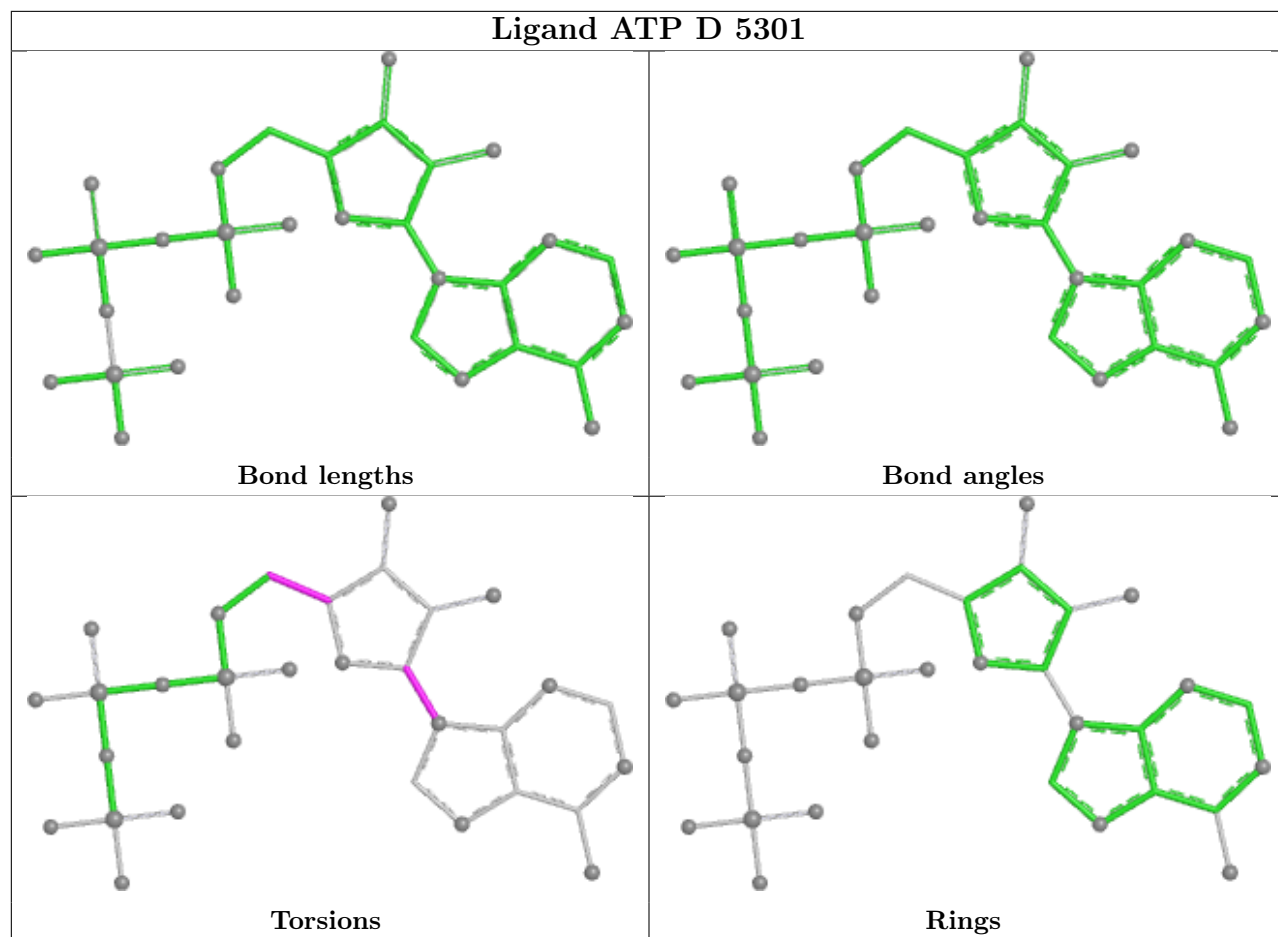


Ligand ATP C 5301

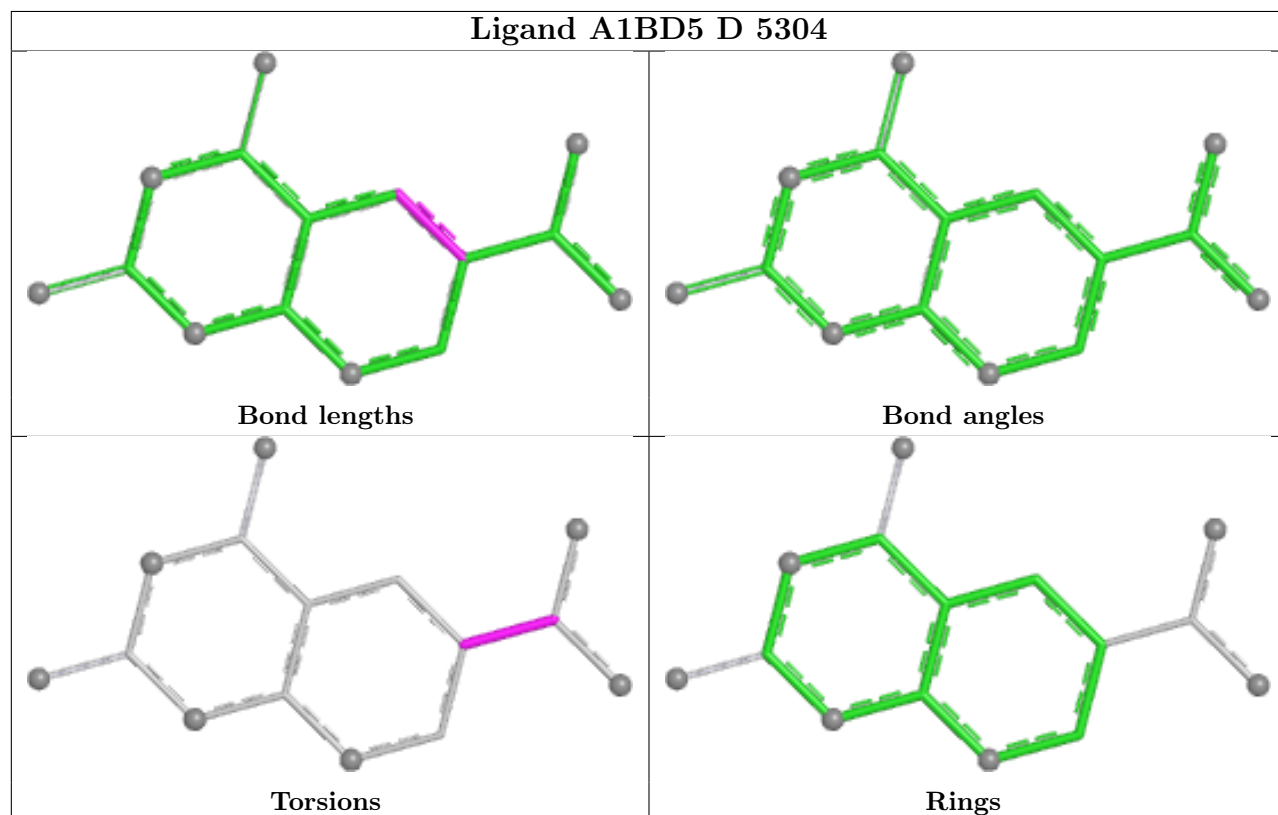




Ligand ATP D 5301



Ligand A1BD5 D 5304



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.

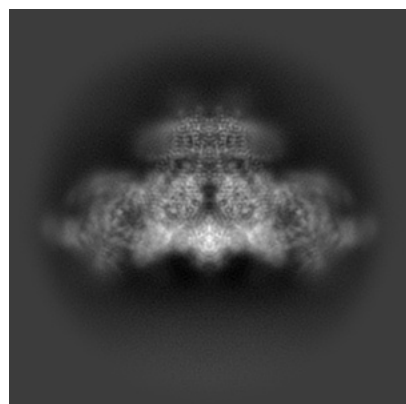
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47395. These allow visual inspection of the internal detail of the map and identification of artifacts.

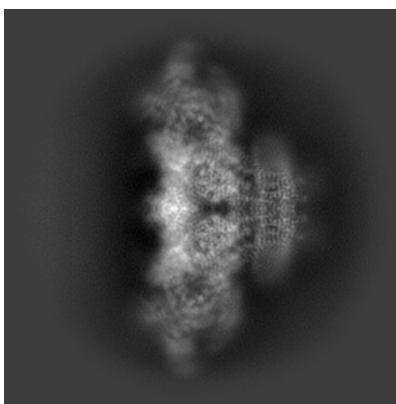
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

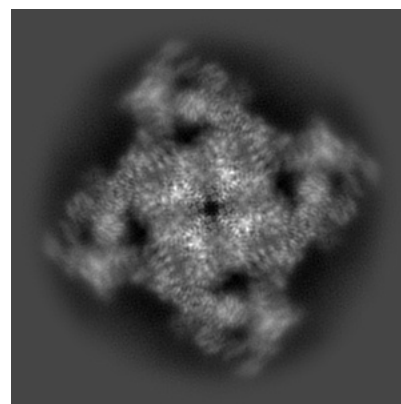
6.1.1 Primary map



X

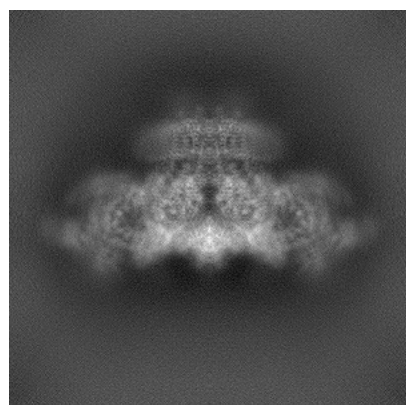


Y

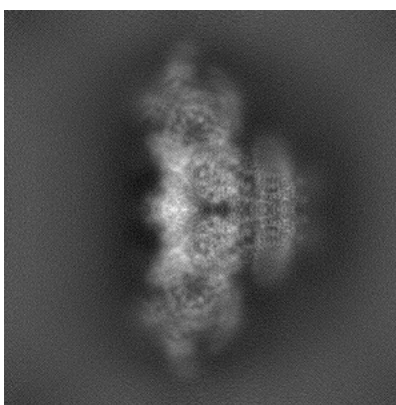


Z

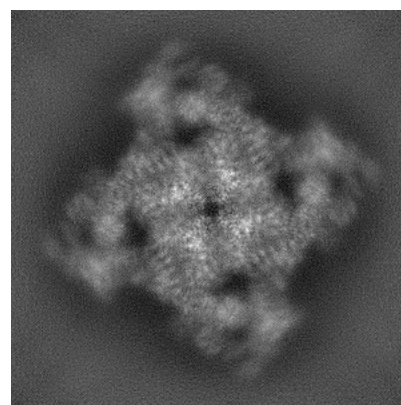
6.1.2 Raw map



X



Y

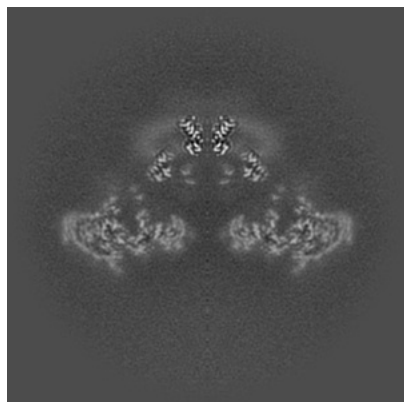


Z

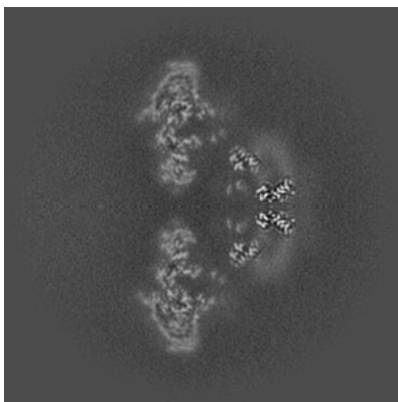
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

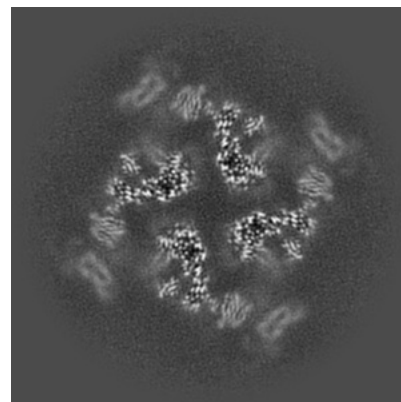
6.2.1 Primary map



X Index: 256

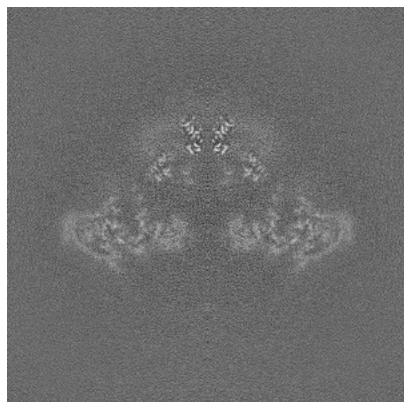


Y Index: 256

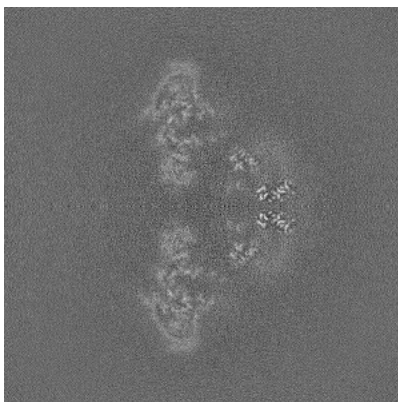


Z Index: 256

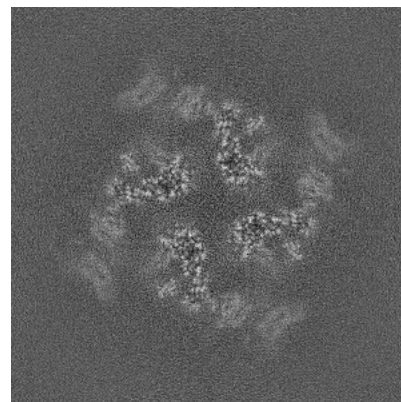
6.2.2 Raw map



X Index: 256



Y Index: 256

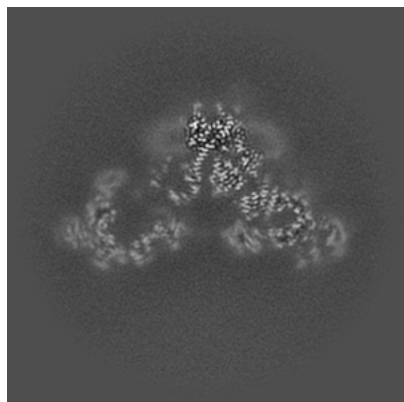


Z Index: 256

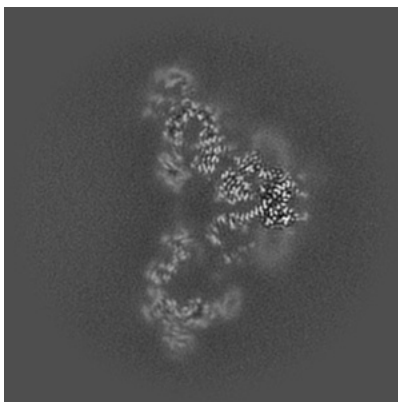
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

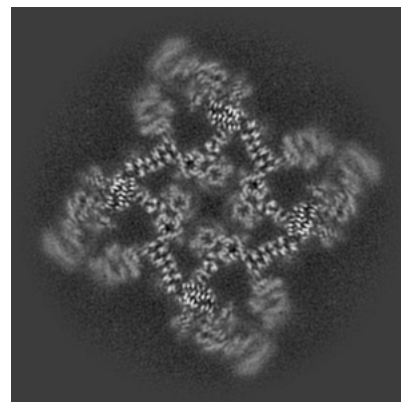
6.3.1 Primary map



X Index: 270

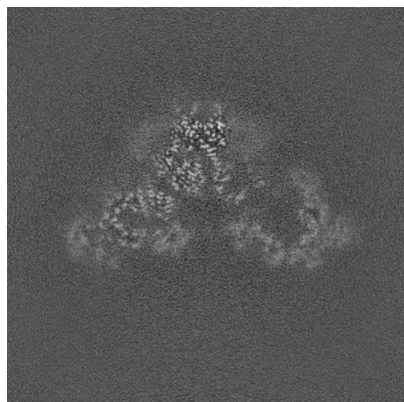


Y Index: 242

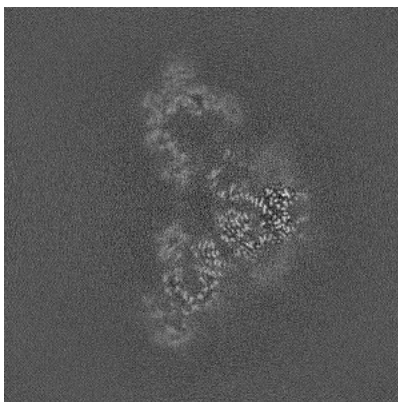


Z Index: 227

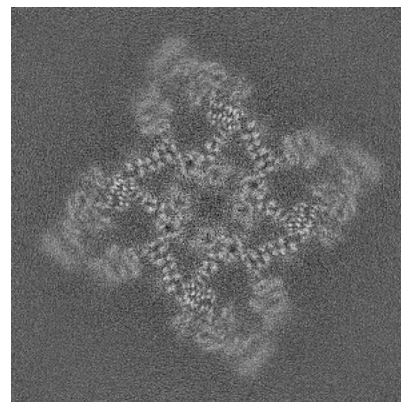
6.3.2 Raw map



X Index: 242



Y Index: 270

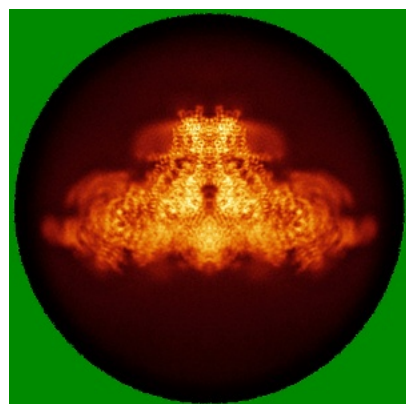


Z Index: 227

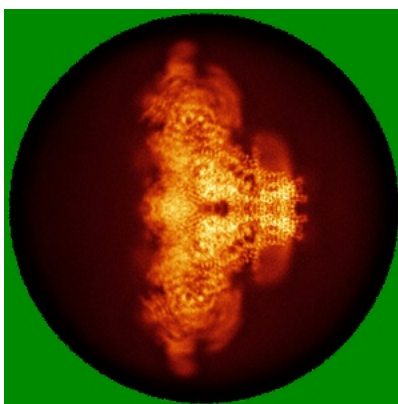
The images above show the largest variance slices of the map in three orthogonal directions.

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

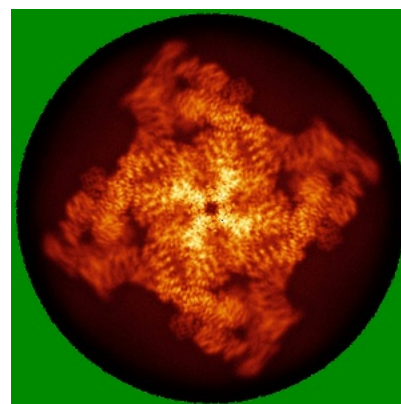
6.4.1 Primary map



X

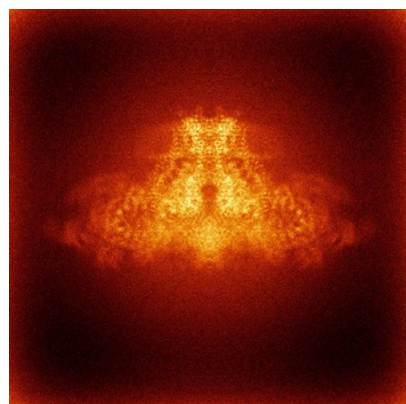


Y

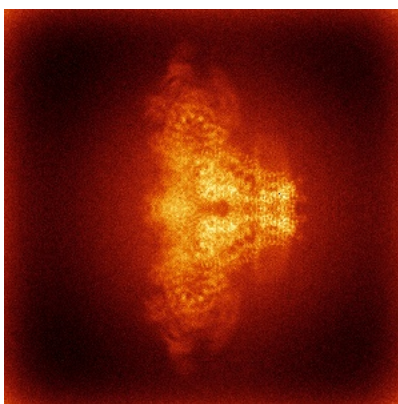


Z

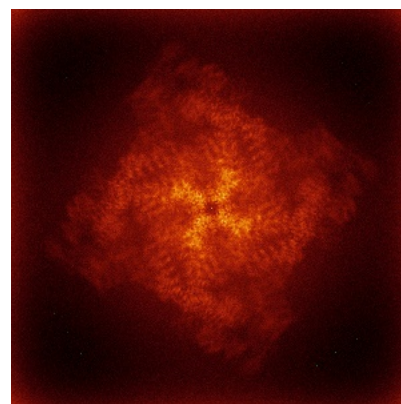
6.4.2 Raw map



X



Y

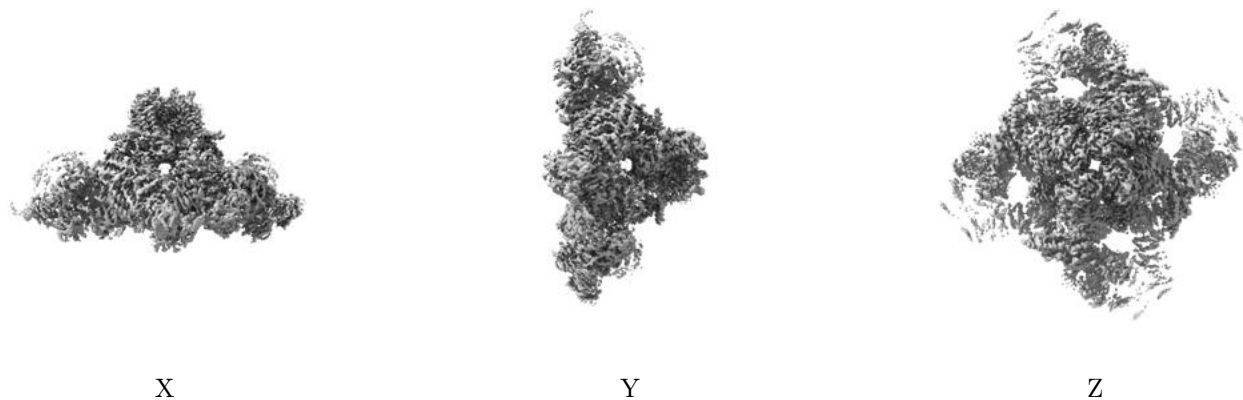


Z

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

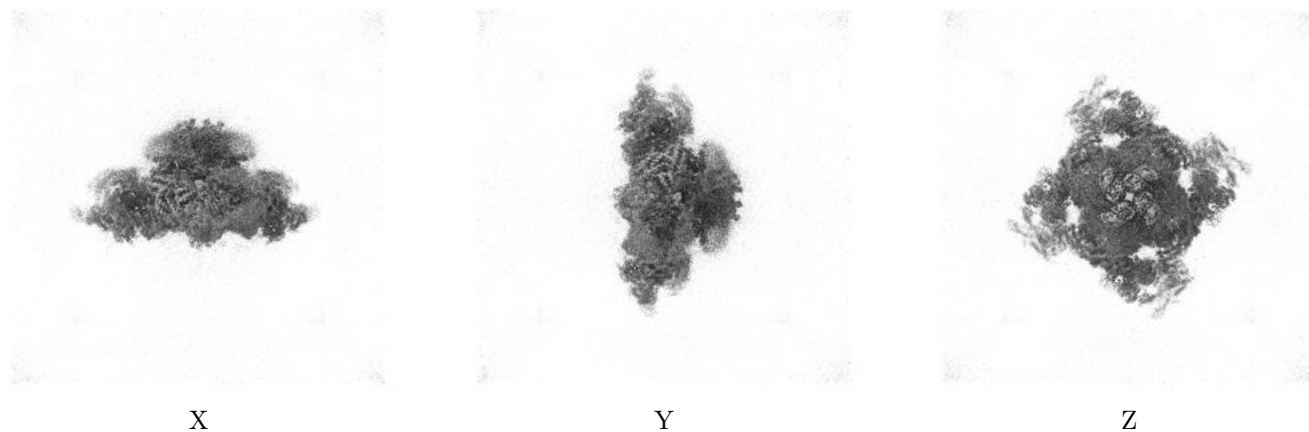
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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

6.5.2 Raw map



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

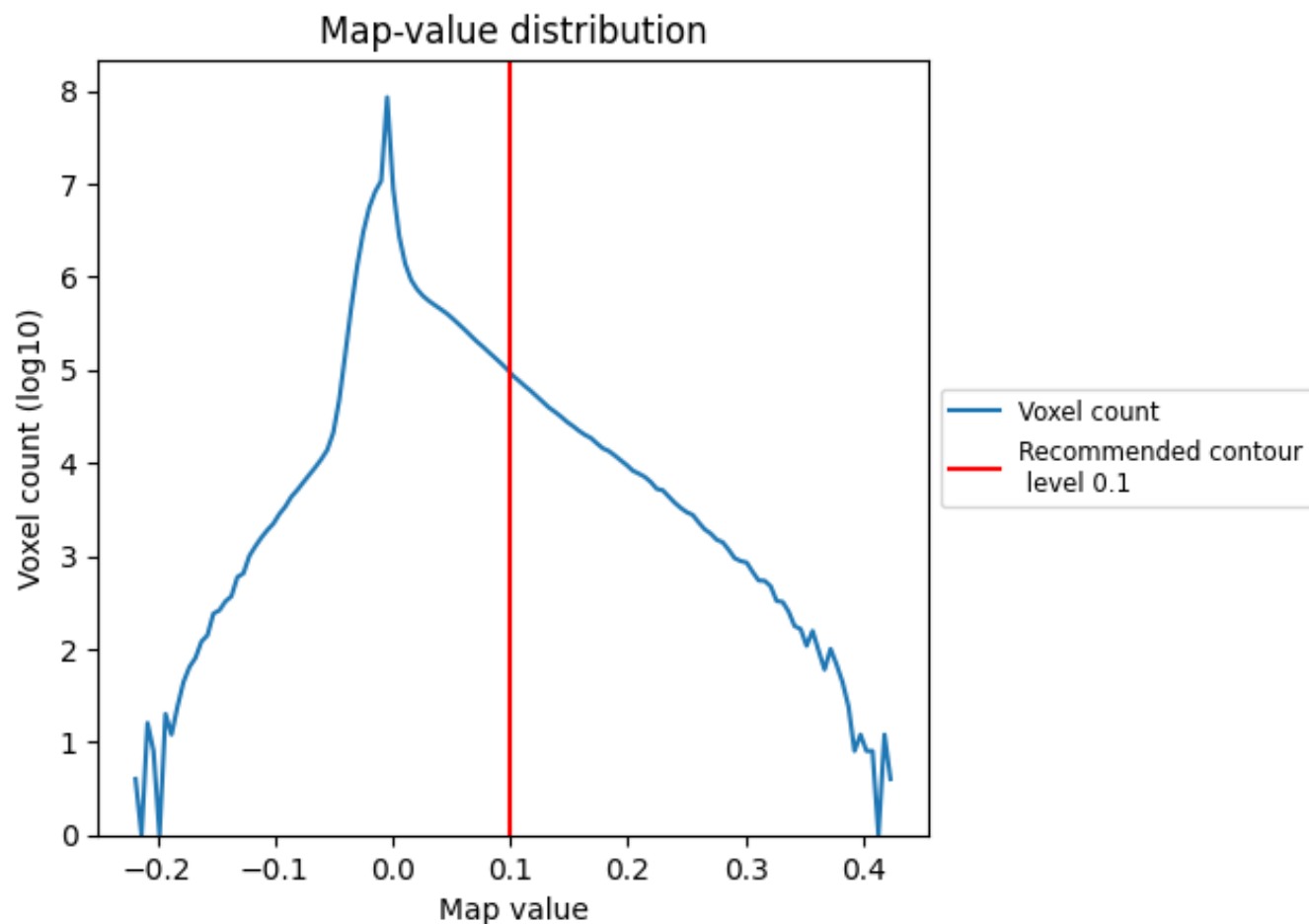
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

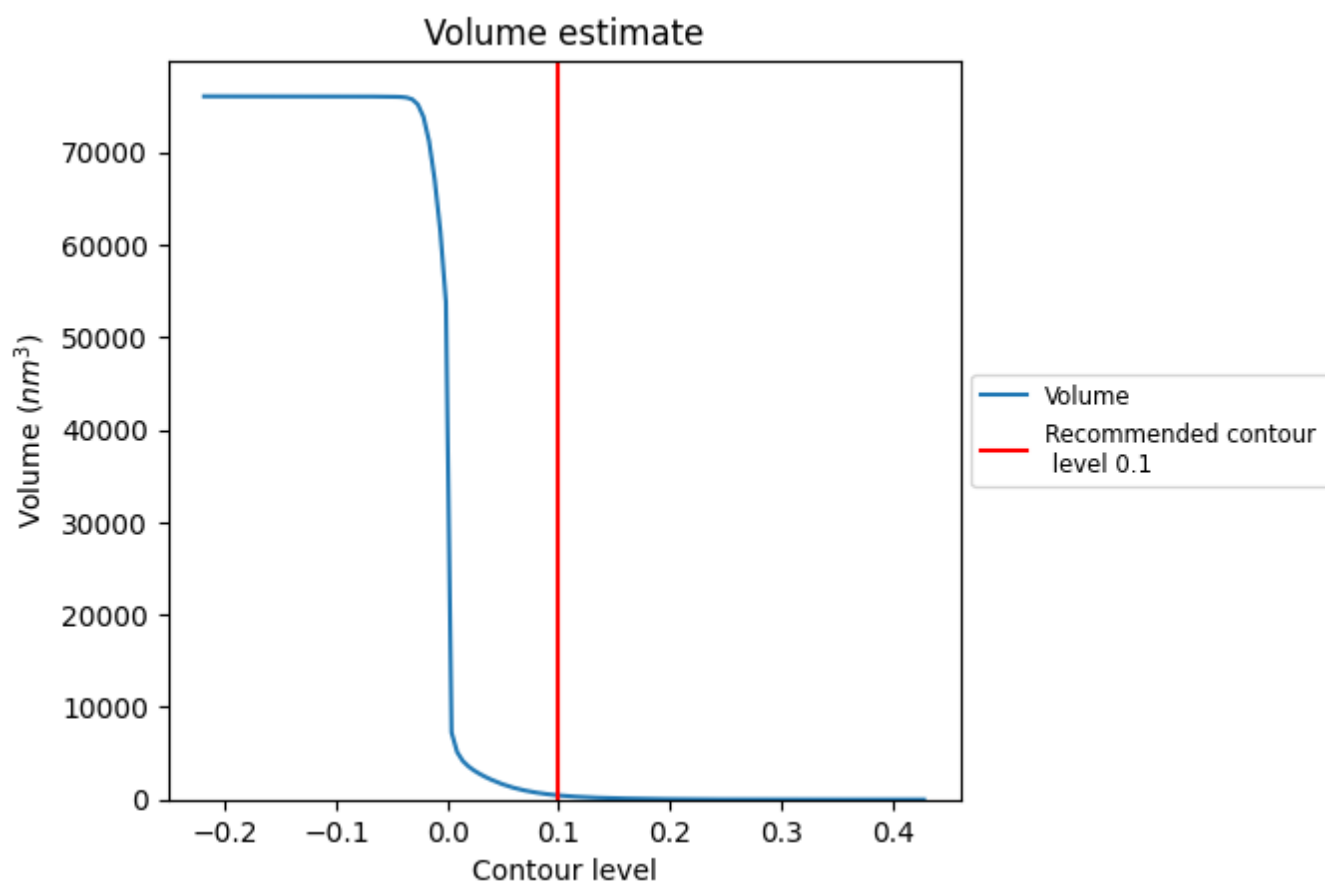
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

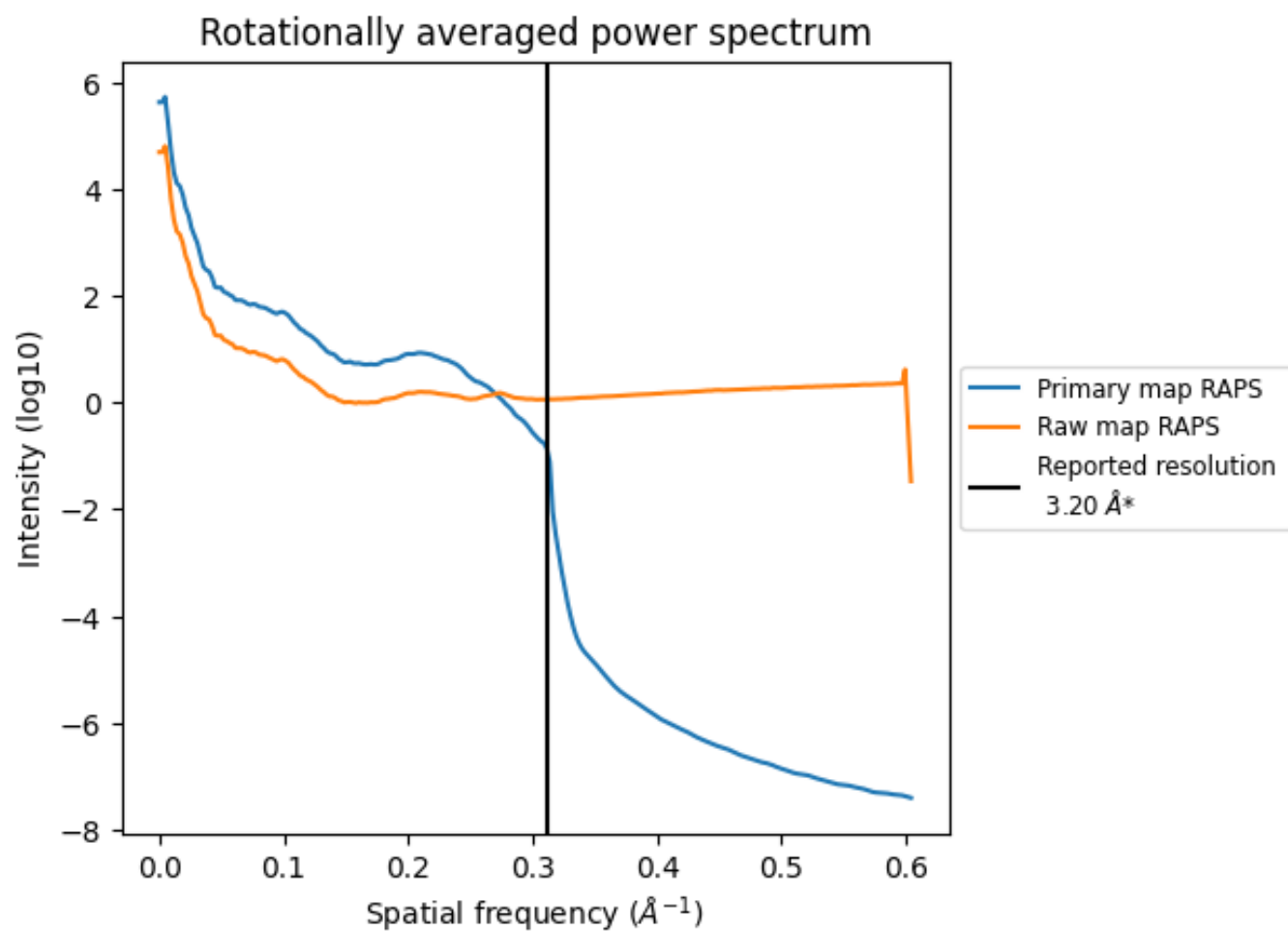
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 452 nm³; this corresponds to an approximate mass of 409 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 ⓘ

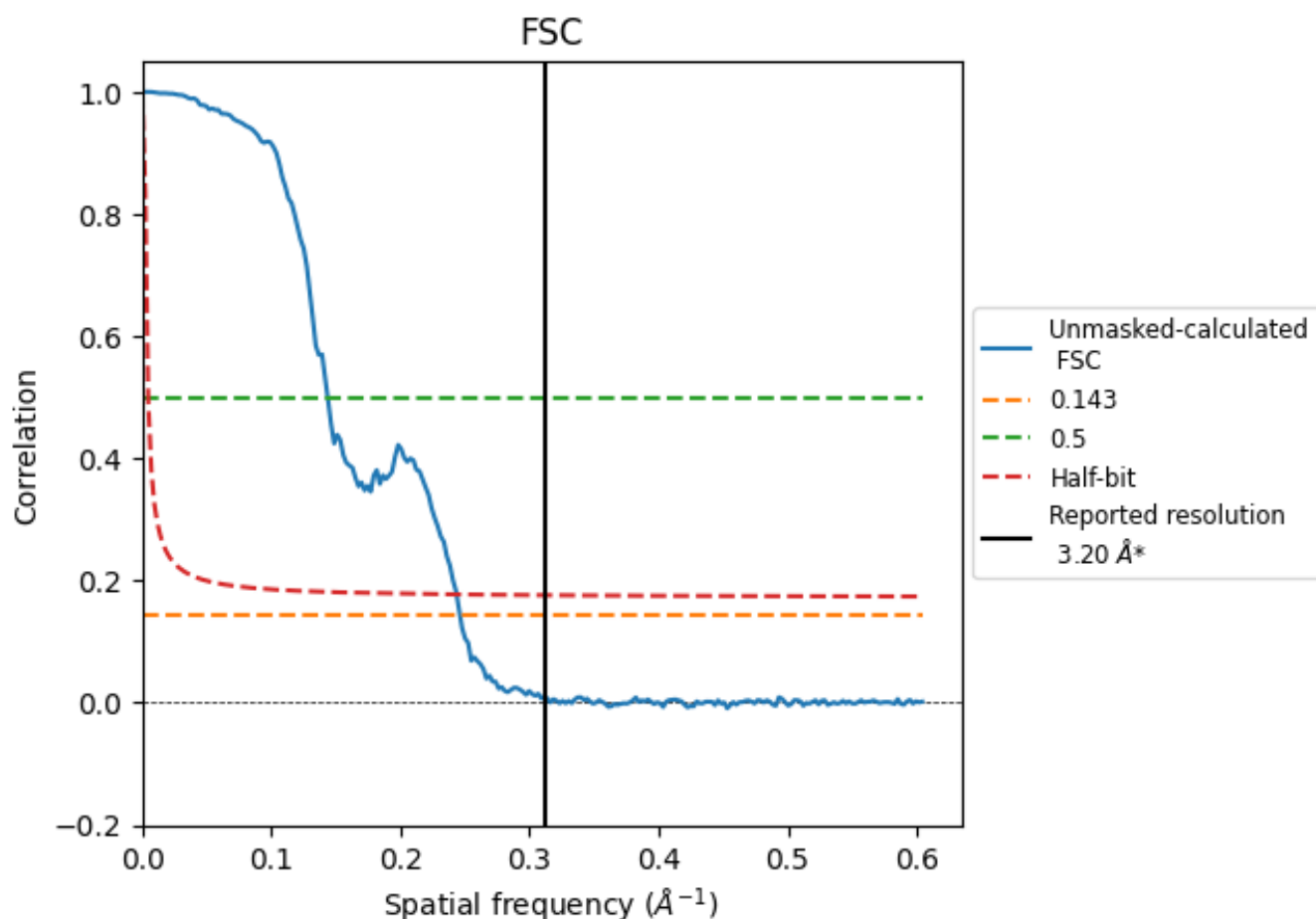


*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

8.2 Resolution estimates [i](#)

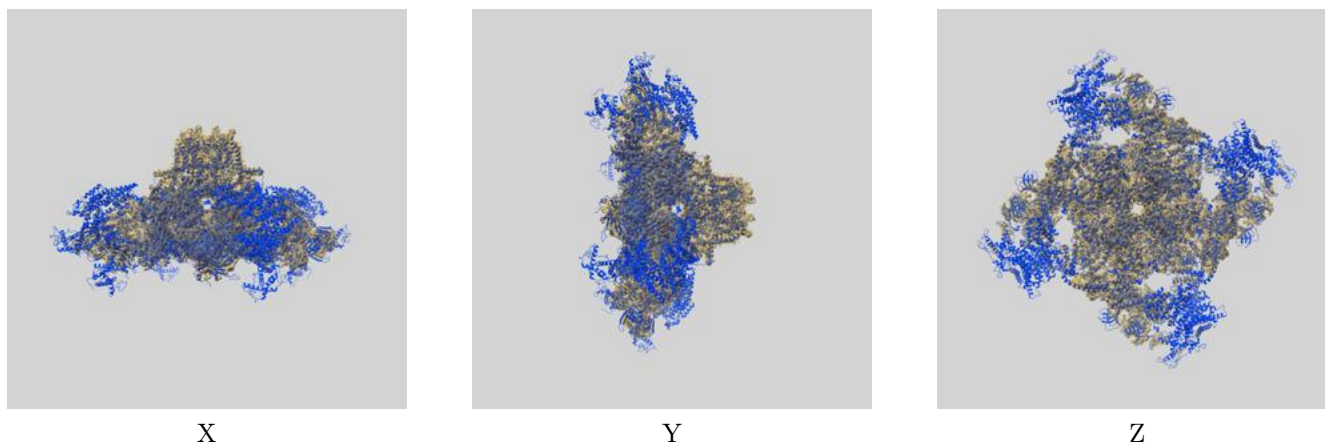
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.20	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.06	6.96	4.11

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.06 differs from the reported value 3.2 by more than 10 %

9 Map-model fit [i](#)

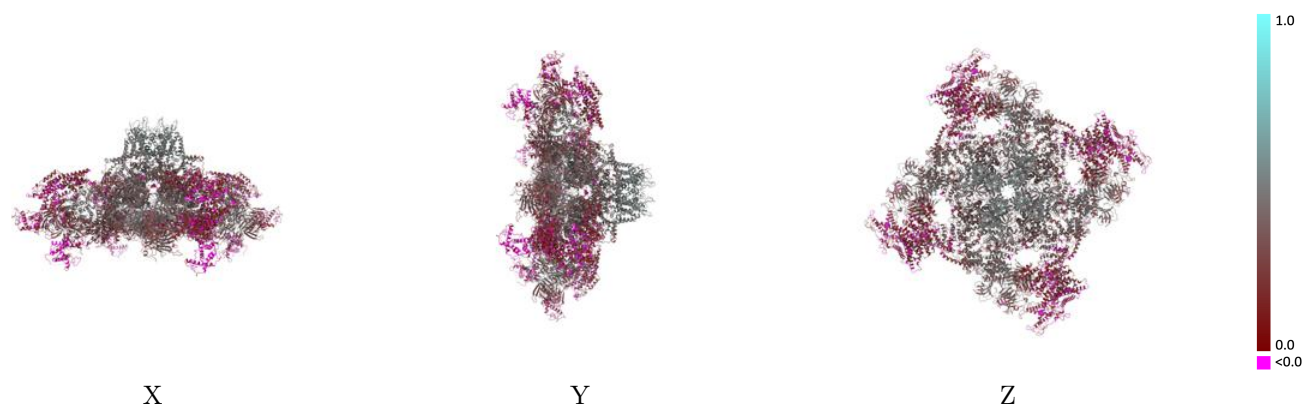
This section contains information regarding the fit between EMDB map EMD-47395 and PDB model 9E1I. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)



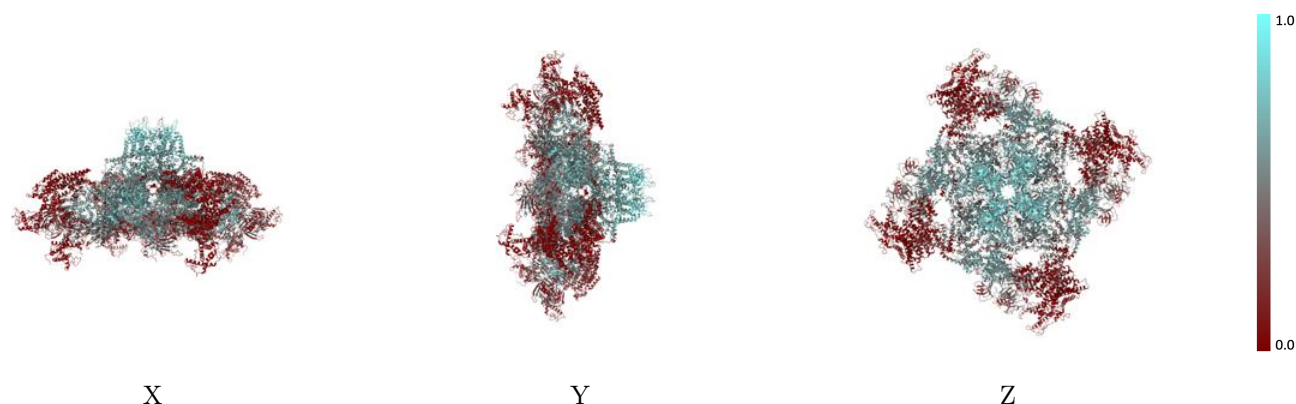
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



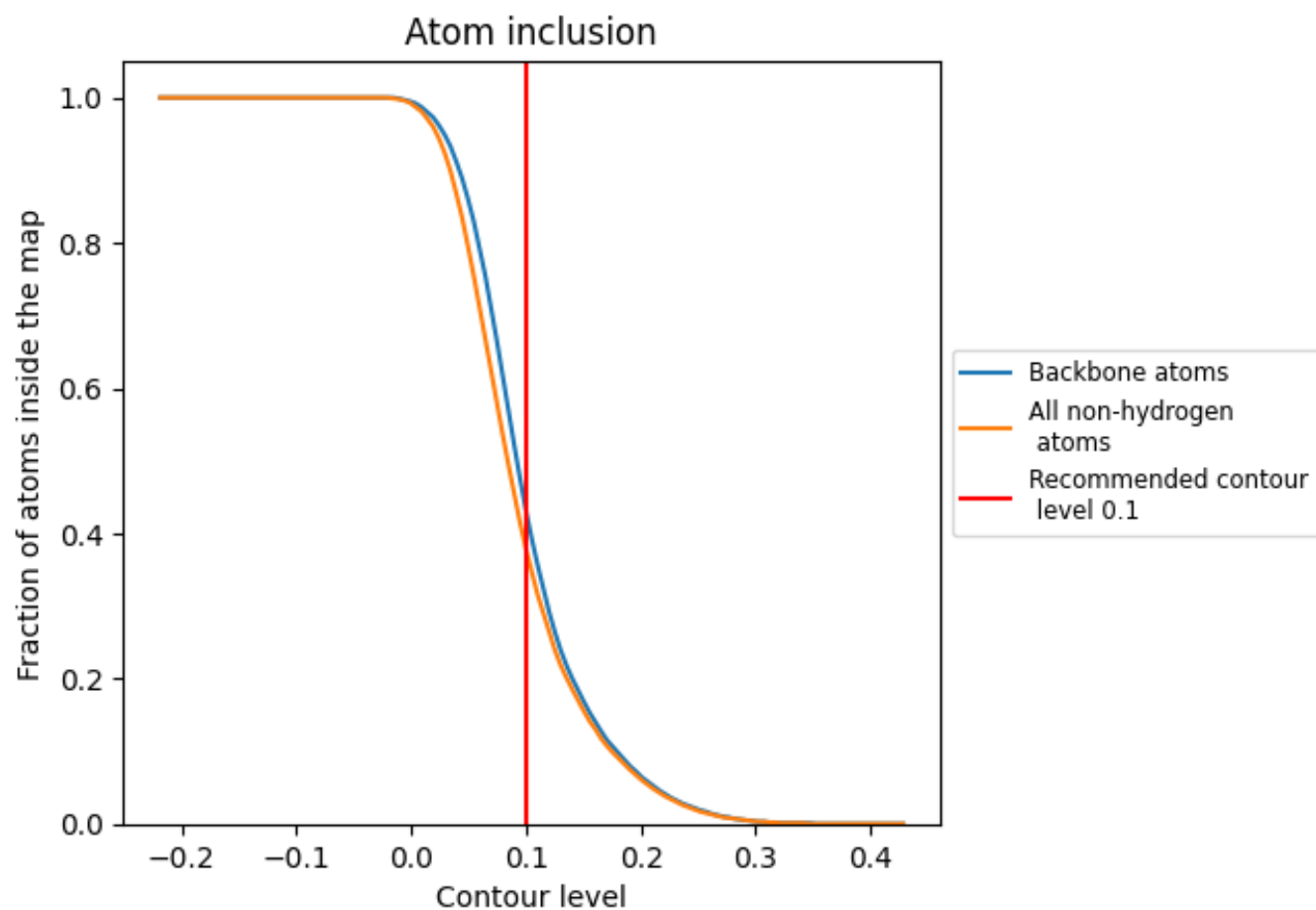
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.4 Atom inclusion [i](#)



At the recommended contour level, 43% of all backbone atoms, 38% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	0.3780	0.3000
A	0.3910	0.2990
B	0.3900	0.2980
C	0.3890	0.2970
D	0.3890	0.2980
E	0.2210	0.3870
F	0.2250	0.3860
G	0.2250	0.3850
H	0.2250	0.3880

